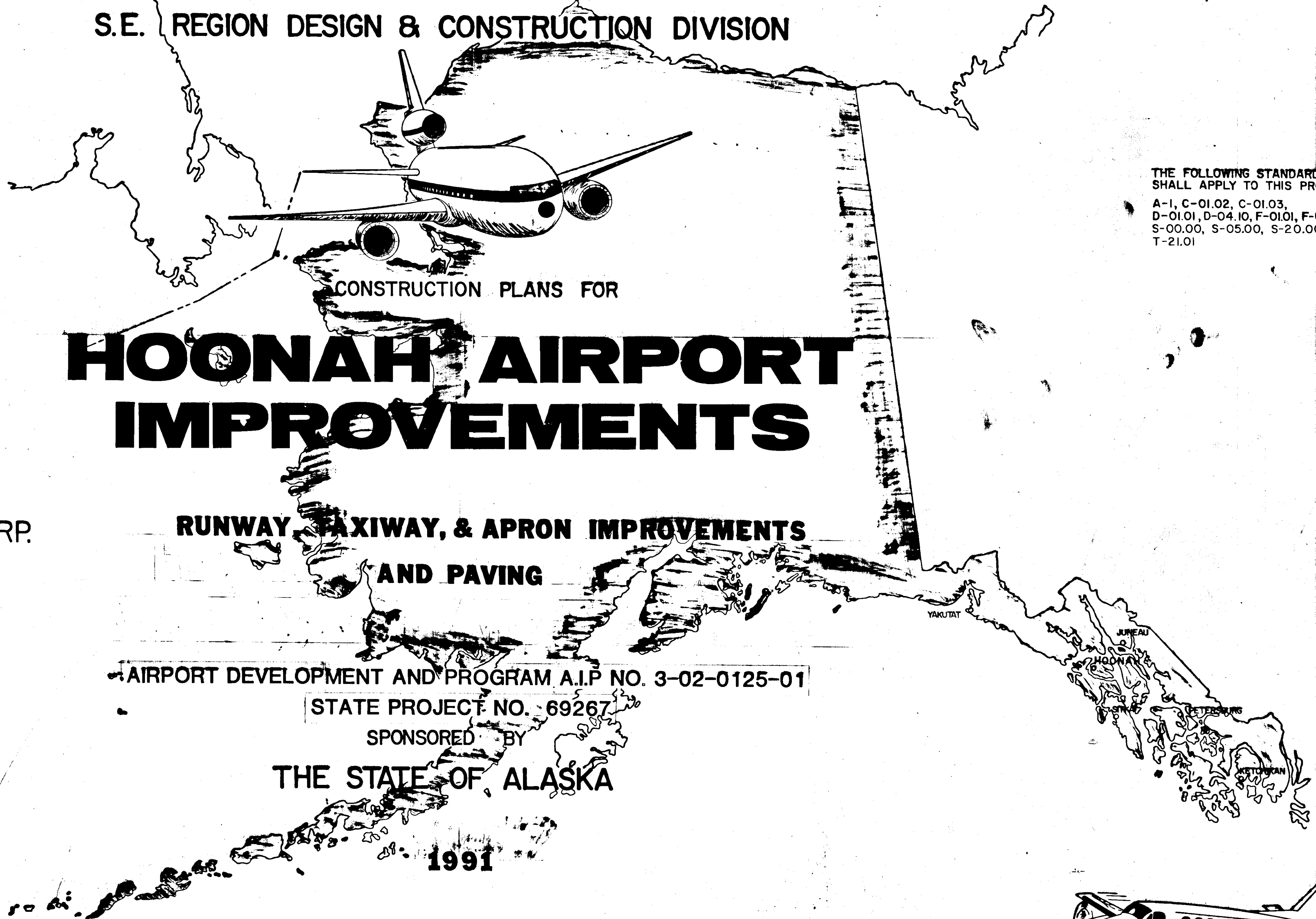


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
S.E. REGION DESIGN & CONSTRUCTION DIVISION



THE FOLLOWING STANDARD DRAWINGS
SHALL APPLY TO THIS PROJECT;
A-1, C-01.02, C-01.03,
D-01.01, D-04.10, F-01.01, F-03.01, L-23.00
S-00.00, S-05.00, S-20.00,
T-21.01

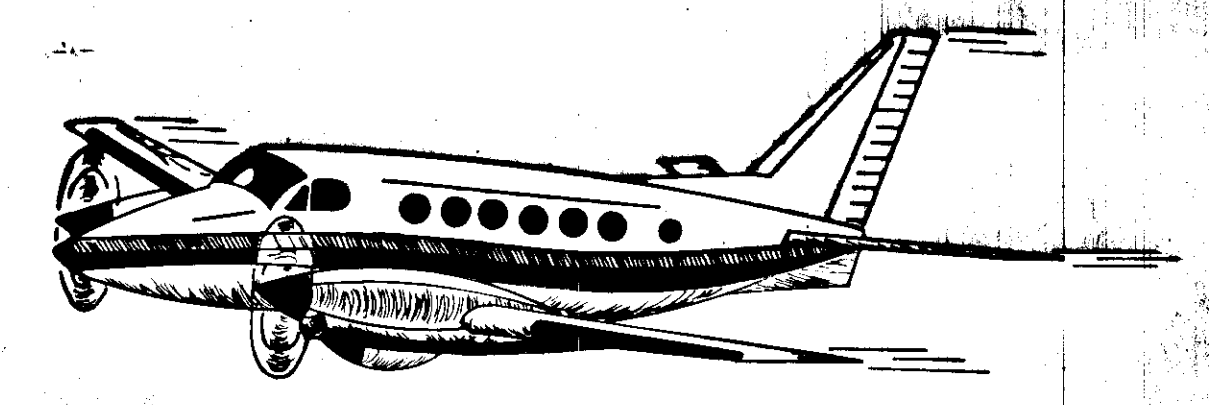
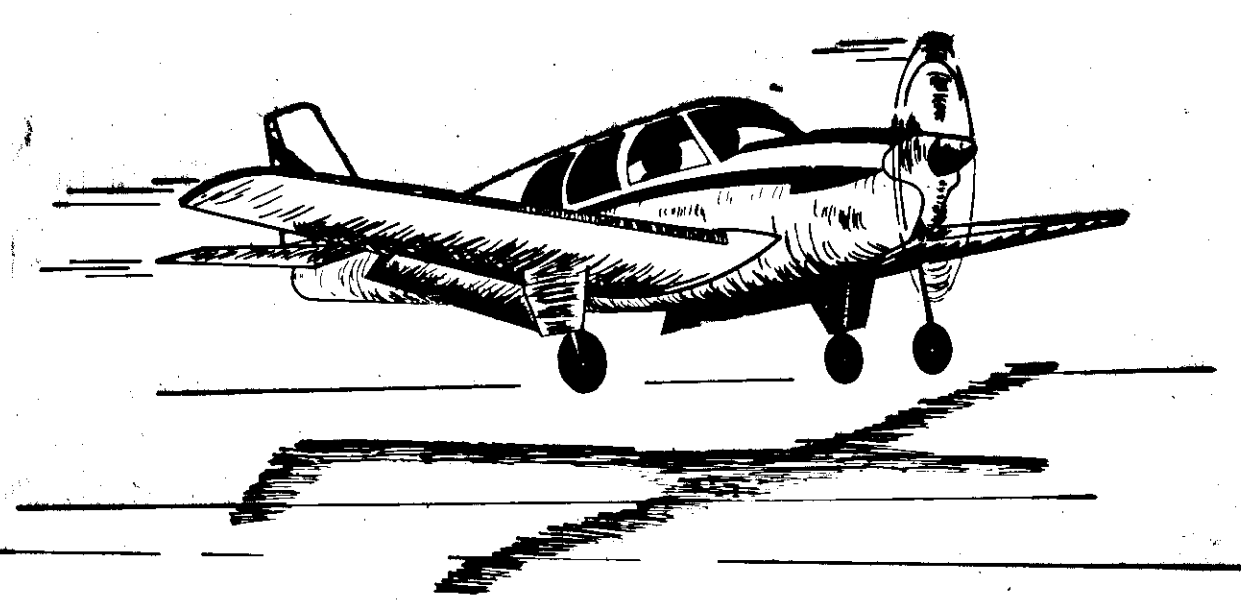
CONSTRUCTION PLANS FOR
**HOONAH AIRPORT
IMPROVEMENTS**

"AS-BUILT" PLANS

Contractor: NORTHERN TIMBER CORP.
Begin Date: OCTOBER 16, 1992
End Date: APRIL 5, 1994
Project Engineer: LARRY GEISE

**RUNWAY, TAXIWAY, & APRON IMPROVEMENTS
AND PAVING**

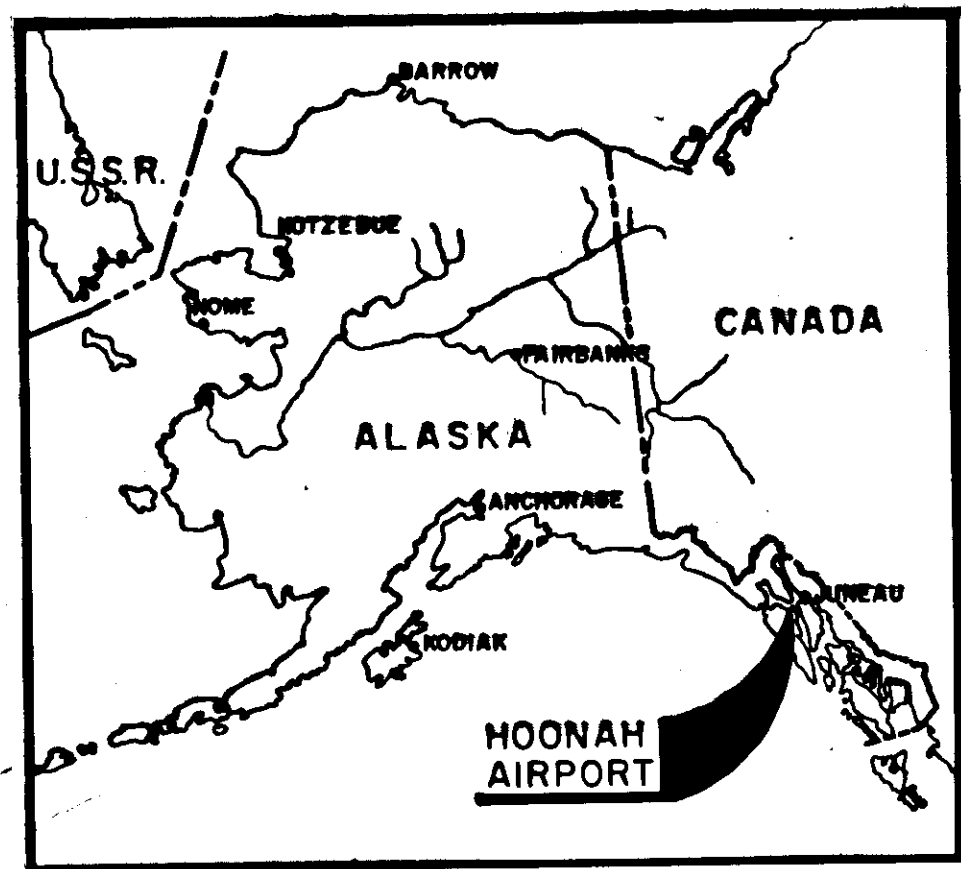
AIRPORT DEVELOPMENT AND PROGRAM A.I.P. NO. 3-02-0125-01
STATE PROJECT NO. 69267
SPONSORED BY
THE STATE OF ALASKA



APPROVED
D.D. Dieckmeyer
D.D. DIECKMEYER, DIRECTOR, S.E. REGION DESIGN & CONSTRUCTION
DATE 6-20-91

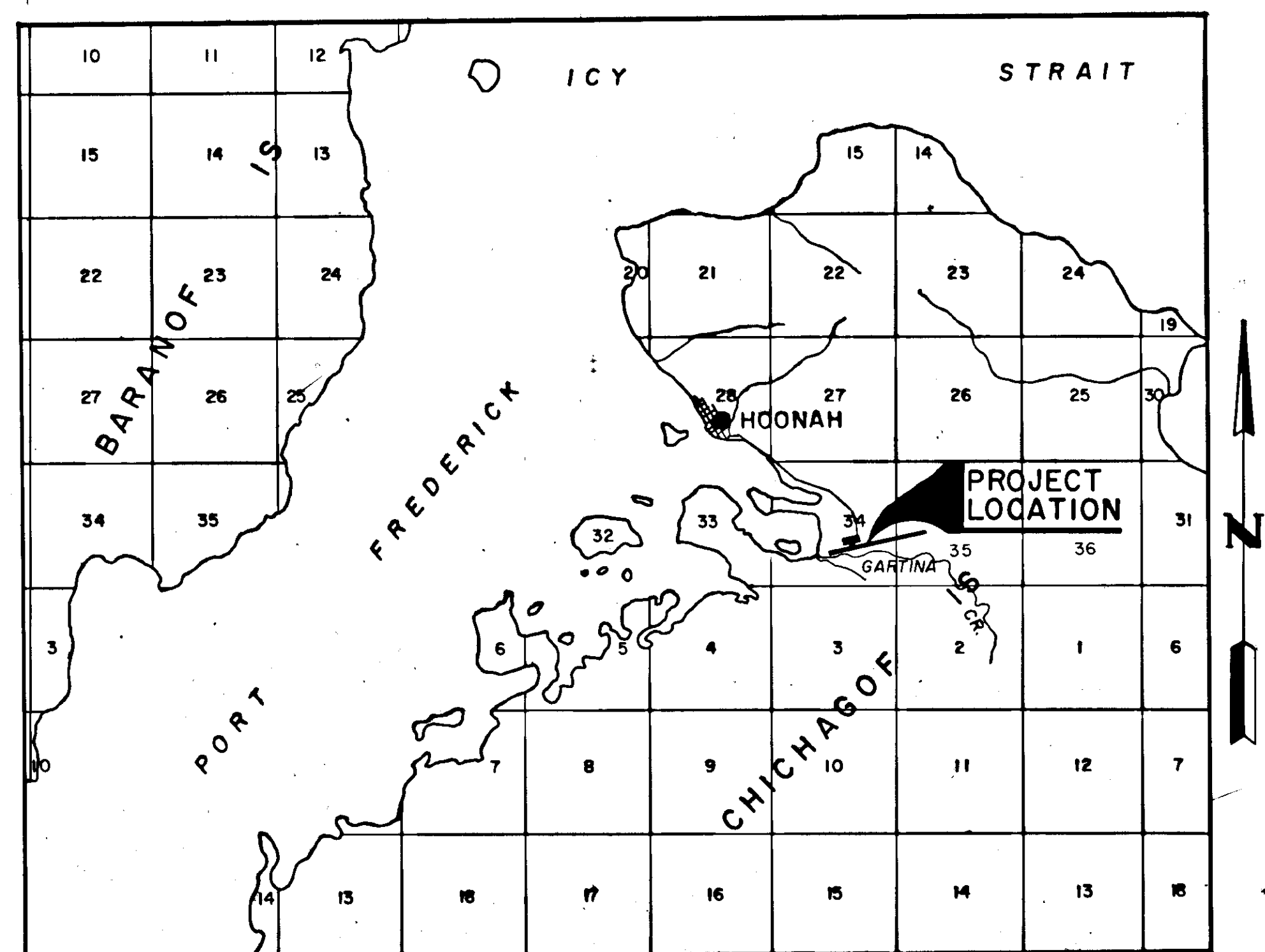
APPROVED
Jack D. Riedle
FOR GARY P. McCALLON, ENGINEERING MANAGER, S.E. REGION DESIGN
DATE 6/20/91

INDEX

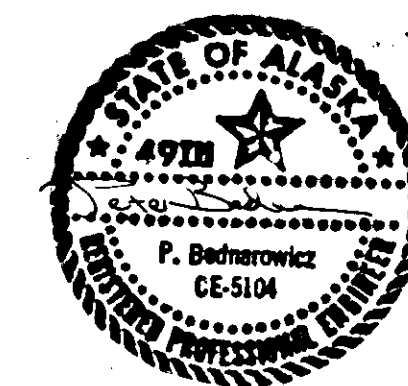
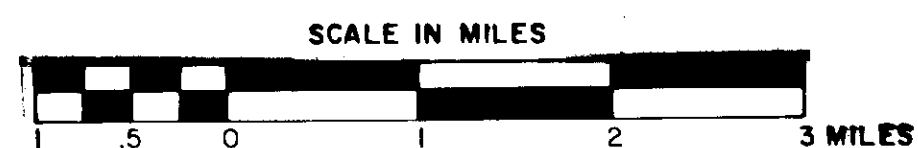


LOCATION MAP

<u>SHEET TITLE</u>	<u>SHEET NUMBER</u>
TITLE SHEET	1
LOCATION MAP, VICINITY MAP, & INDEX	2
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MITIGATION DETAILS	16
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VICINITY MAP



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
S.E. REGION DESIGN & CONSTRUCTION

HOONAH AIRPORT
PROJECT NO. 69267
A.I.P. NO. 3-02-0125-01
LOCATION MAP, VICINITY MAP, & INDEX

BY	DATE	CHANGE

APPROVED BY:		ENGINEERING MANAGER
APPROVED BY:		DESIGN ENGINEER
SCALE:	DESIGNED: D.A.	DRAWN: B.A.
AS SHOWN	CHECKED:	DATE:

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	UNIT	RUNWAY	WEST TAXIWAY	EAST TAXIWAY	APRON	LEASE LOTS	ACCESS ROAD	TOTAL QUANTITY
100	MOBILIZATION & DEMOBILIZATION	L.S.							ALL REQ'D.
111	TEMPORARY EROSION & POLLUTION CONTROL	C.S.							ALL REQ'D.
120	D.B.E. ADJUSTMENT	C.S.							ALL REQ'D.
121	CONSTRUCTION SURVEYING BY THE CONTRACTOR	L.S.							ALL REQ'D.
125	ENGINEERING TRANSPORTATION	L.S.							ALL REQ'D.
111(A)	INSTALLATION OF EROSION & POLLUTION CONTROL	L.S.							ALL REQ'D.
121(A)	ADDITIONAL CONSTRUCTION SURVEYING	M.H.							45.5
200a	CLEARING	ACRE				75	1.5	2.0	7.31
210a	REMOVAL OF STRUCTURES & OBSTRUCTIONS	L.S.							ALL REQ'D.
210b	BUILDING RELOCATION	L.S.							ALL REQ'D.
210c	HANDICAP RAMP	L.S.							ALL REQ'D.
210d	AIRPORT SEWER SYSTEM	L.S.							ALL REQ'D.
330a	UNCLASSIFIED EXCAVATION	C.Y.	6664 2,600	2409 6,500	4509 7,300	43689 34,600	9,400	15,600	76422 75,000
330b	BORROW EMBANKMENT	TON	93,500	34,500	43,500	168,000	22,500	28,000	395633 390,000
330c	BORROW, TYPE "D"	TON						9,000	8200 9,000
330d	SETTLEMENT PLATFORMS	EACH		2	1	8	5	3	19
330e	VIBRATING WIRE PIEZOMETER	EACH		2	1	8	5	3	19
350b	RIPRAP, CLASS II	C.Y.	4,500	40	50			40	5747 4,630
351	STREAM RECHANNELIZATION & REHABILITATION	L.S.							ALL REQ'D.
351a	FISHERIES MITIGATION	L.S.							ALL REQ'D.
400a	18 INCH CORRUGATED ALUMINUM PIPE	L.F.						46	0 46
400b	24 INCH CORRUGATED ALUMINUM PIPE	L.F.		112					112
400c	96 INCH CORRUGATED ALUMINUM PIPE	L.F.		120	132				252
400d	21'-2" X 8'-10" CORRUGATED ALUMINUM BOX CULVERT	L.F.						54	54
440a	8' CHAIN LINK FENCE	L.F.				521	506		521 506
440b	14' SWING GATE	EACH					1		2 1
440e	SECURITY GATE	EACH						1	1
440f	PEDESTRIAN SWING GATE	EACH					1		1
500b	SUBBASE COURSE	TON	21,300	2,100	2,500	8,900	560	1,240	40503 36,600
510a	CRUSHED AGGREGATE BASE COURSE	TON	21,000	2,060	2,460	8,900	560	1,240	44075 36,200
550b	GEOTEXTILE, REINFORCEMENT	S.Y.				17,000			13932 17,000
551b	GEOTEXTILE, RIPRAP LINER	S.Y.	7,500						8869 7,500
660a	ASPHALT CONCRETE (ADDITIVE ALTERNATE)	TON	3,040	340	390	2,920	200	340	7079.07 7,230
660c	ASPHALT CEMENT, AC-5 (ADDITIVE ALTERNATE)	TON	182.5	20.4	23.4	175.3	12	20.4	418.37 434
700c	STATE TRAFFIC MARKING PAINT (ADDITIVE ALTERNATE)	L.S.							ALL REQ'D.
722	SEGMENTED CIRCLE	L.S.							ALL REQ'D.
730	REFLECTIVE MARKERS	E.A.	42	16	16	11			85
820a	TIEDOWN ANCHORS	EACH				42			57 42
900a	SEEDING	ACRE				.3		.7	2.1 1
910a	SURVEY MONUMENTS	EACH	2		1	2		2	8 7
910b	MONUMENT CASES	EACH	2					2	7 4
920	STANDARD SIGNS	S.F.	12			32		18.75	62.75
1000f	3 INCH PVC CONDUIT	EACH							9 20
1000g	NEW HANDHOLE	L.F.	20						425 766
1000i	2 INCH RIGID STEEL CONDUIT	L.F.	766						2893 2,430
1000k	2 INCH P.V.C. CONDUIT	L.F.	2,430						8844 7,228
1000l	UNDERGROUND CABLE #8A.G.W. COPPER, 5KV. TYPE "B", L-824	L.F.	7,228						5287 4,194
1000m	#6 H.H.W. GREEN COPPER GROUND CONDUCTOR	L.F.	4,194						460 468
1000n	CONTROL CABLE	L.F.	468						14273 12,605
1000p	UNDERGROUND CABLE, COPPER, 600 VOLT, TYPE "B", L-824	L.F.	12,605						10
1000q	GROUND ROD	EACH	10						4 3
1000r	UNDERGROUND SERVICE BOX, 24"X24"X24" MINIMUM	EACH	4						819 700
1000s	3 INCH RIGID CONDUIT	L.F.	700						ALL REQ'D.
1010	RELOCATED WIND CONE	L.S.	ALL REQ'D.						ALL REQ'D.
1021	RELOCATE VASI-2 SYSTEM	L.S.	ALL REQ'D.						ALL REQ'D.
1022	RELOCATE REIL LIGHTS	L.S.	ALL REQ'D.						ALL REQ'D.
1030	UTILITY LINE	L.S.	ALL REQ'D.						ALL REQ'D.
1025a	MODIFICATION TO PAPI LIGHT SYSTEM	L.S.	ALL REQ'D.						ALL REQ'D.
1025	INSTALL NEW 4-LIGHT PAPI SYSTEM	L.S.	ALL REQ'D.						ALL REQ'D.

LOT 1 ONLY 1022a FURNISH NEW RAIL LIGHT ASSEMBLIES

ALL REQ'D

REMOVAL OF STRUCTURES AND OBSTRUCTIONS

"O" STATION	LT.	RT.	DESCRIPTION	QUANT.
12+17	X	X	THRESHOLD MARKERS *	2
19+55	X		CONCRETE PAD	1
24+35	X		CONCRETE PAD	1
26+00 160' LT.	X		AIRPORT SIGN & POSTS (2)	1
44+85		X	CONCRETE PAD	1
49+65		X	CONCRETE PAD	1
51+00		X	EXISTING SEGMENTED CIRCLE 1/2 BARRELS	28
51+93	X	X	THRESHOLD MARKERS *	2

* Threshold markers shall be placed in storage as directed by the engineer.

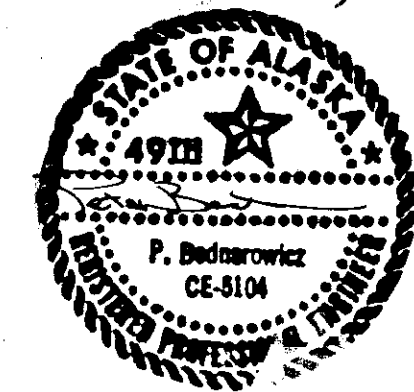
BASIS OF ESTIMATES

ITEM NO.	ITEM	ESTIMATING FACTOR
330d	Borrow Embankment	1.8 Tons/C.Y.
500b	Subbase Course	2 Tons/C.Y.
510a	Crushed Aggregate Base Course	2 Tons/C.Y.
660a	Asphalt Concrete	116#/S.Y./ inch of depth
660c	Asphalt Cement, AC-5	6% of 660a

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA				

CLASS II RIPRAP

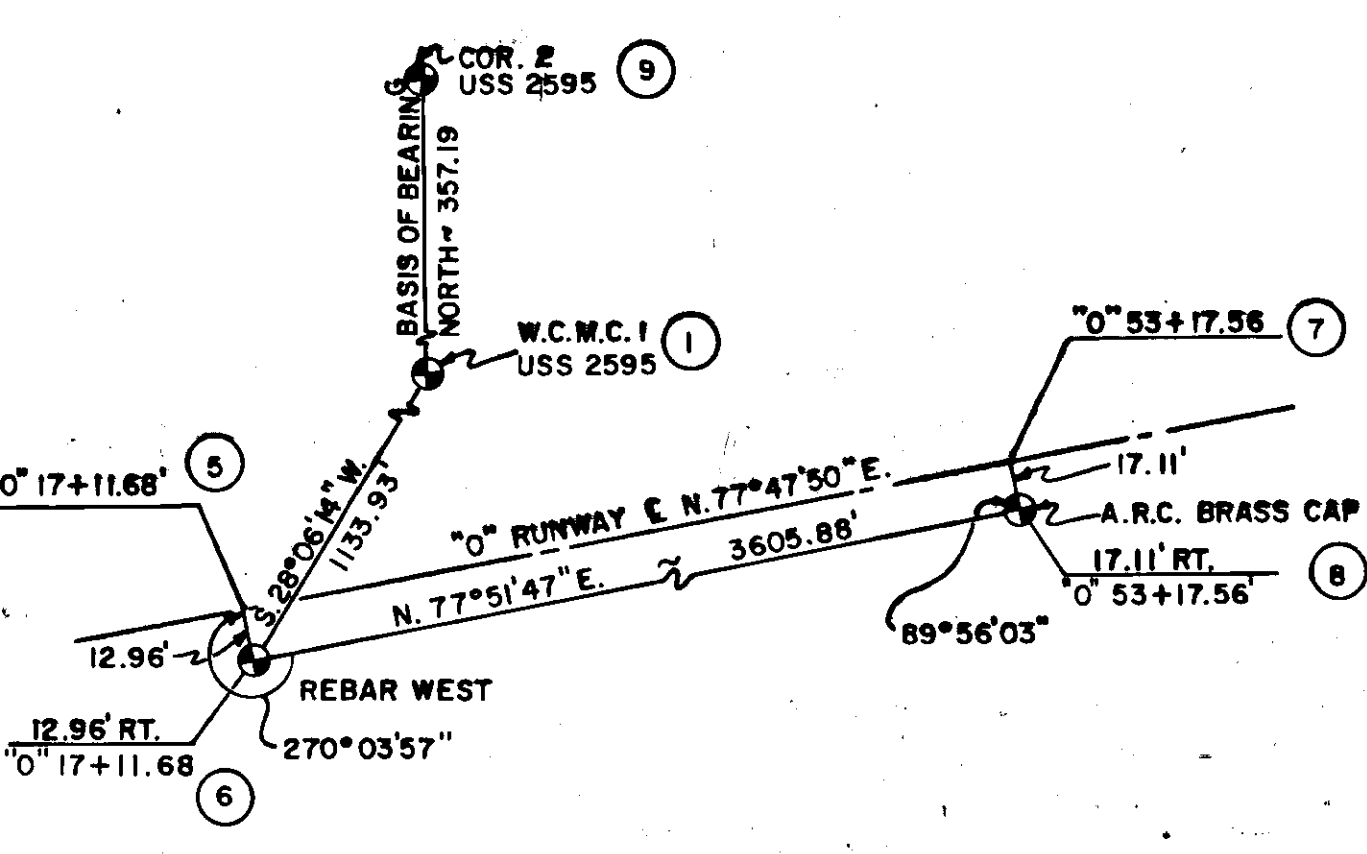
"O" STA.	LT.	RT.	REMARKS
17+00 to 18+00	X		Continuous around N.W. end of runway as shown on plans. See Sheet 8
17+00 to 43+50		X	See Sheets 8, 9, & 10
51+20 to 53+00	X		Continuous around N.E. end of runway as shown on plans. See Sheet 11



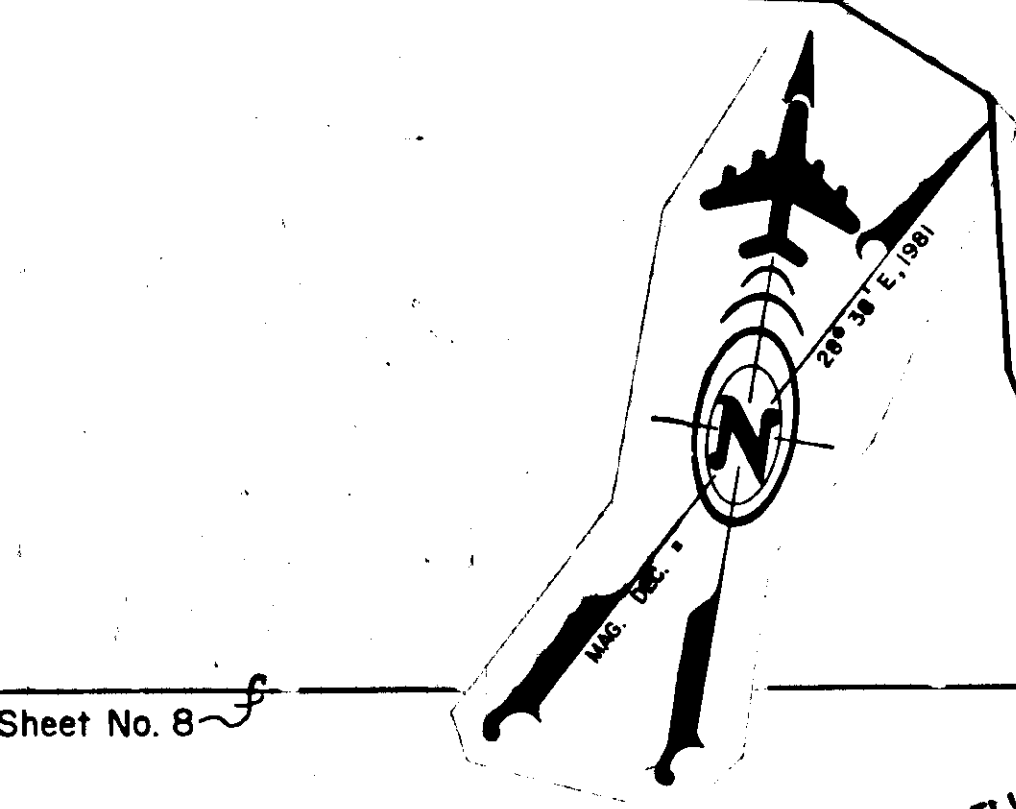
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
S.E. REGION DESIGN & CONSTRUCTION

HOONAH AIRPORT
PROJECT NO. 69267
A.I.P. NO. 3-02-0125-01
ESTIMATE OF QUANTITIES

APPROVED BY:	_____	ENGINEERING MANAGER
APPROVED BY:	_____	DESIGN ENGINEER
BY:	DATE:	CHANGE:
REVISIONS		
SCALE:	DESIGNED:	DRAWN:
CHECKED:	DATE:	



CONTROL DIAGRAM



Sheet No. 8

ROAD ALIGNMENT FOR HOONAH ARTERIAL STAGE II

Sheet No. 14

Sheet No. 12

Sheet No. 13

Sheet No. 10

Sheet No. 11

"O" STA. 10+32.8
BEGIN ACCESS ROAD

"O" STA. 20+69.76
END ACCESS ROAD

"A" STA. 17+01.99
APPROX. END TAXIWAY

"B" STA. 18+79.91
END TAXIWAY

"O" STATION 25+00
10 x 20 VASI PAD, ELEV. 20.4

"O" STATION 32+00
10 x 20 VASI PAD, ELEV. 20.4

"O" STATION 37+85
10 x 20 VASI PAD, ELEV. 20.4

"O" STATION 44+85
10 x 20 VASI PAD, ELEV. 20.4

"O" STATION 54+00, END
STREAM RECHANNELIZATION

"O" STA. 19+00
EXISTING REIL'S

"O" STA. 20+00, BEGIN PAVED RUNWAY,
RELOCATE REILS, LT. & RT. 10 x 45'
REIL PADS ELEV. 20.4

"O" STA. 28+81
"A" STA. 10+15

"O" STATION 50+00, 200' RT.
OF "L" & EXISTING SEGMENTED
WIND CONE & CIRCLE. REPLACE
SEGMENTED CIRCLE WITH PANEL
MARKERS.

"O" STATION 51+25, BEGIN
STREAM RECHANNELIZATION
SEE SHEET 16

"O" STATION 51+80, BEGIN CLASS
II RIPRAP SLOPE PROTECTION

"L" STATION 52+00, END
EXISTING RUNWAY

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
S.E. REGION DESIGN & CONSTRUCTION

HOONAH AIRPORT
PROJECT NO. 69267
A.I.P. NO. 3-02-0125-01

PLAN

APPROVED BY:	ENGINEERING MANAGER
APPROVED BY:	DESIGN ENGINEER
SCALE:	DESIGNED: DTR DRAWN: RKB CHECKED: DATE:

BY	DATE	CHANGE
REVISIONS		

- LEGEND**
- EXISTING
 - PROPOSED
 - WIND CONE, EXISTING
 - LIGHTED WIND CONE, EXISTING
 - ANADROMOUS STREAM
 - EXISTING RUNWAY END IDENTIFICATION LIGHTS (REIL)
 - RELOCATED
 - ① WCMC-1
 - ② MC-1, ATS-1261
 - ③ WCMC-4
 - ④ MC-4 / C-11, ATS-1261
 - ⑤ REBAR WEST, 12.96' RIGHT OF "O" 17+11.68
 - ⑥ STA. 17+11.61, ϕ O/S=43.77'
 - ⑦ ARC BRASS CAP, 17.11' RIGHT OF "O" 53+17.56
 - ⑧ STA. 53+17.72, ϕ O/S=43.77'
 - ⑨ COR. 2, USS 2595
 - PERMIT

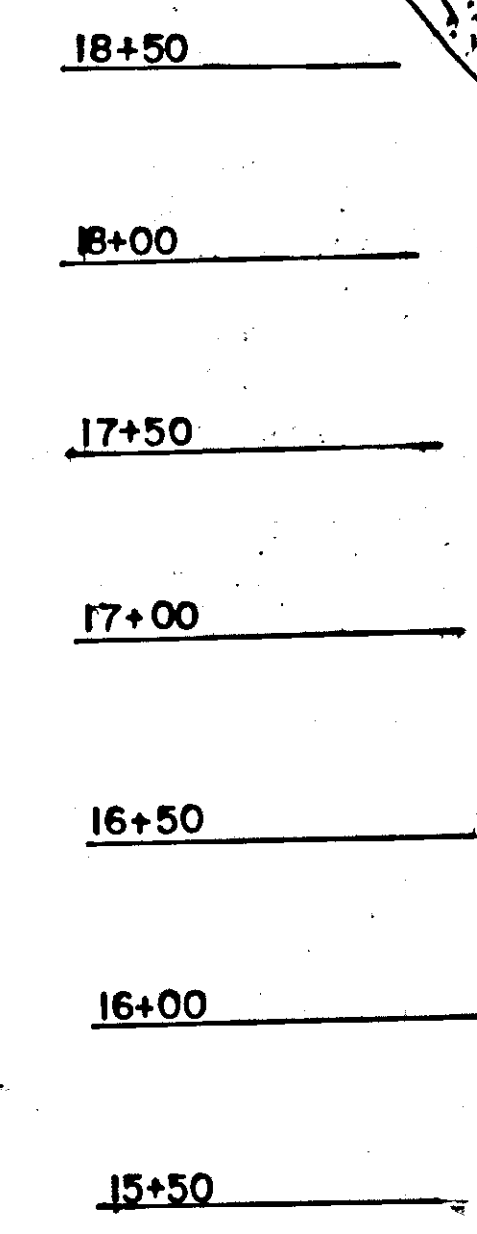
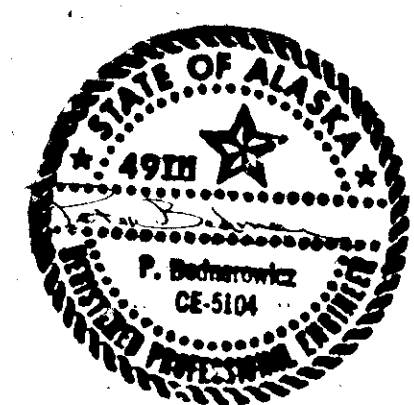
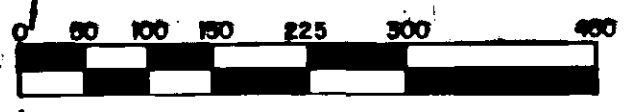
A PORTION OF PARCEL 5 ACQUIRED FROM G. THOMSEN. SALVAGE ALL TIMBER IN THE PARCEL & STACK OUTSIDE OF AIRPORT AS DESIGNATED. SEE SPECIALS (APPROX. 2 ACRES)

AIRPORT PROPERTY EASEMENT

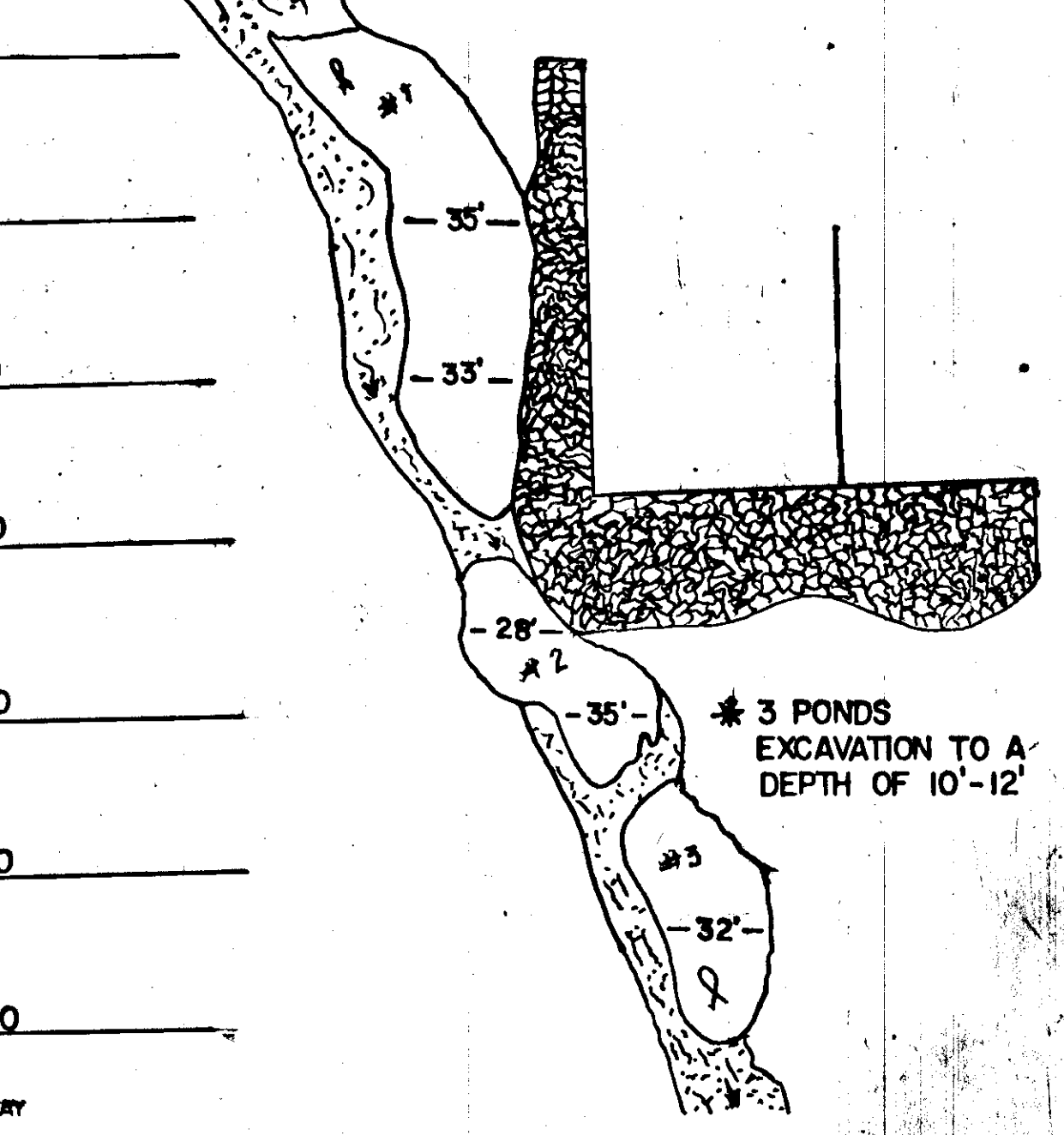
- 2" ASPHALT CONCRETE
- TOP OF BASE
- CLASS II RIPRAP
- PERMIT OR EASEMENT

PLAN

SCALE



COHO CREEK RECHANNELIZATION WEST END



"O" STATION 50+00, END PAVED RUNWAY
RELOCATE REILS, LT. & RT. 10 x 45'
REIL PADS ELEV. 20.4

EASEMENT

100' X 150' APRON
TO BE REMOVED AND SEEDDED.



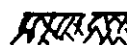
SHOULDER R/W SAFETY AREA

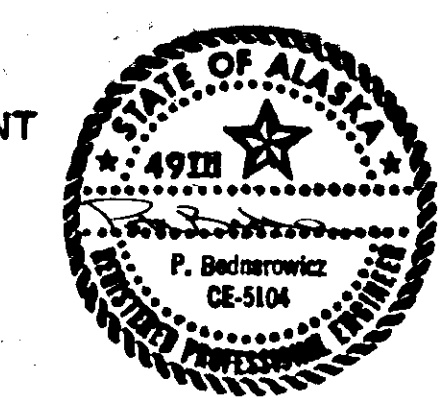
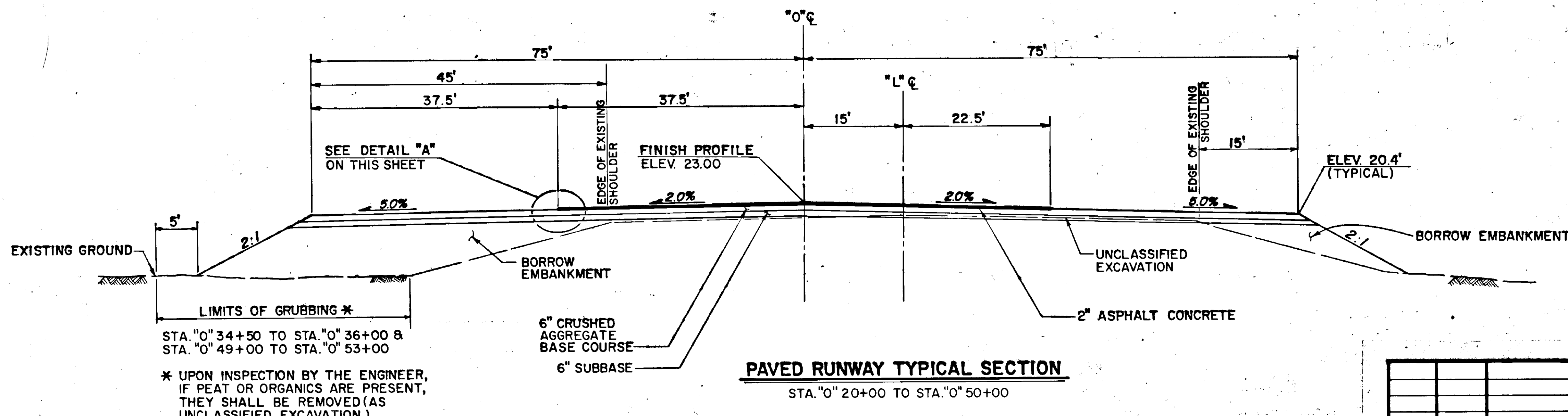
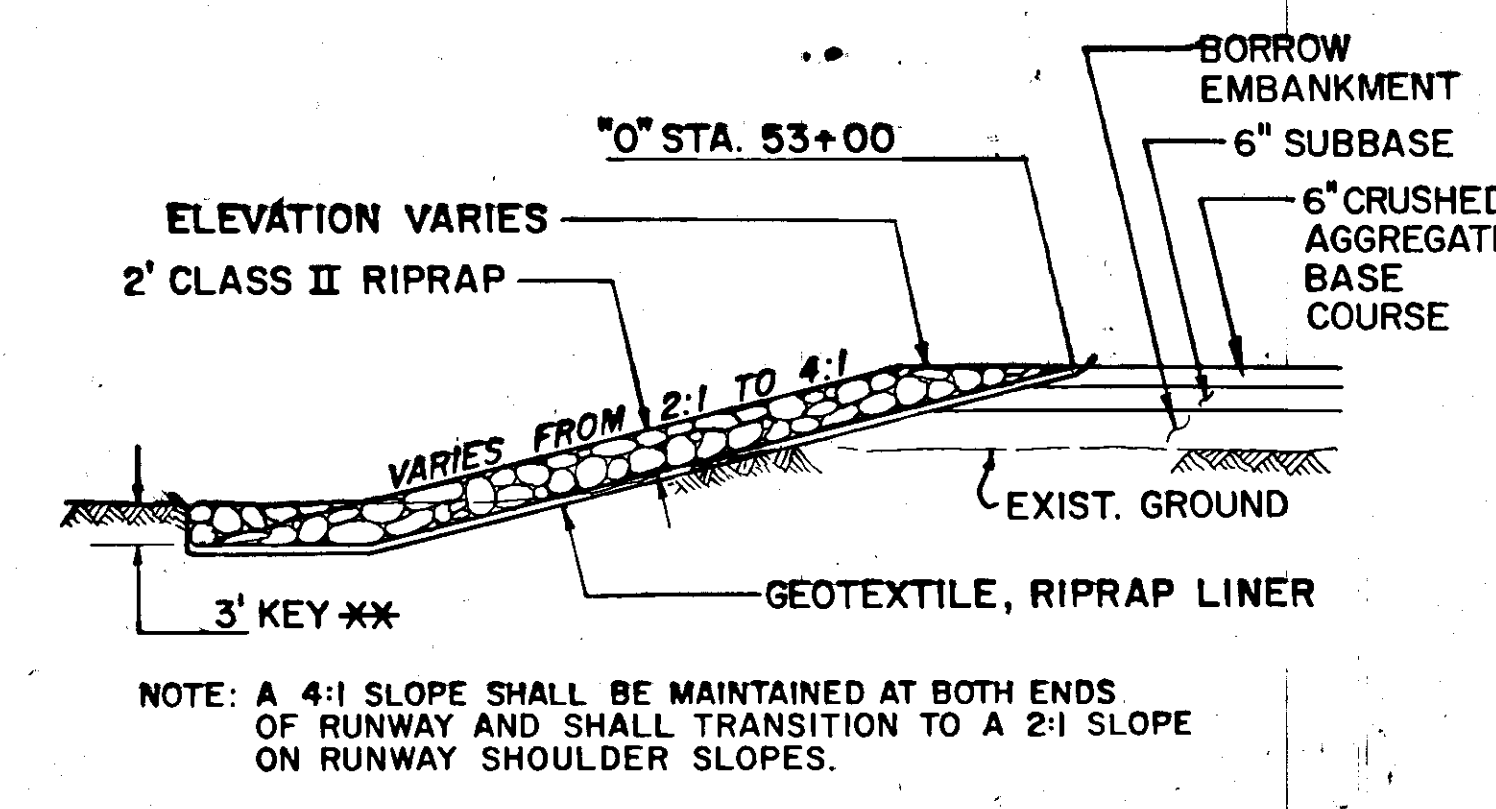
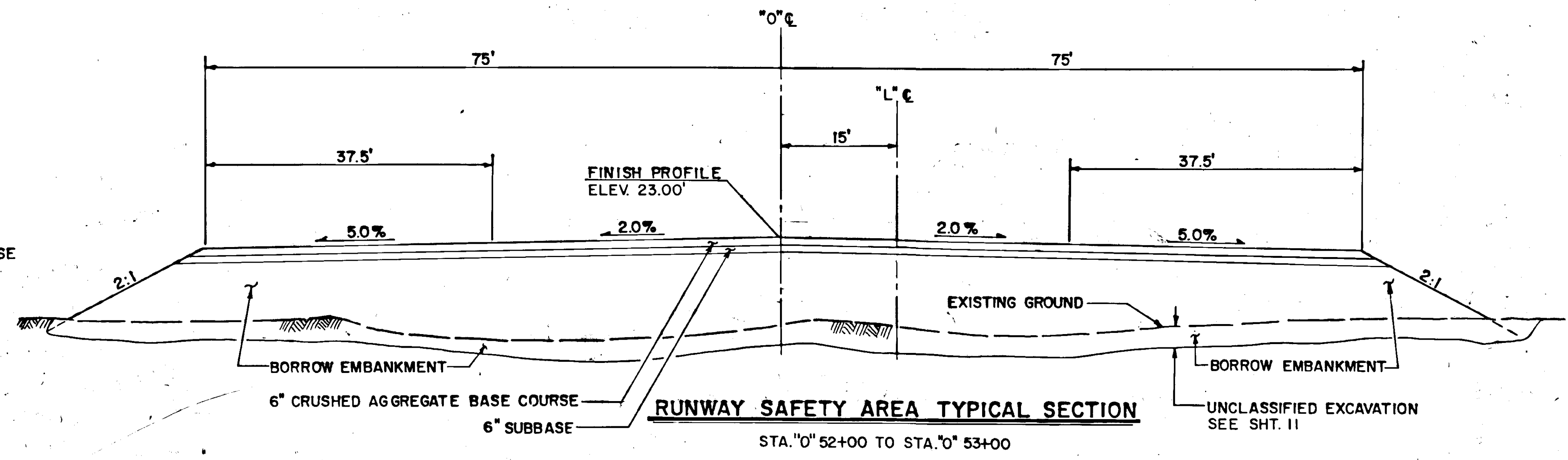
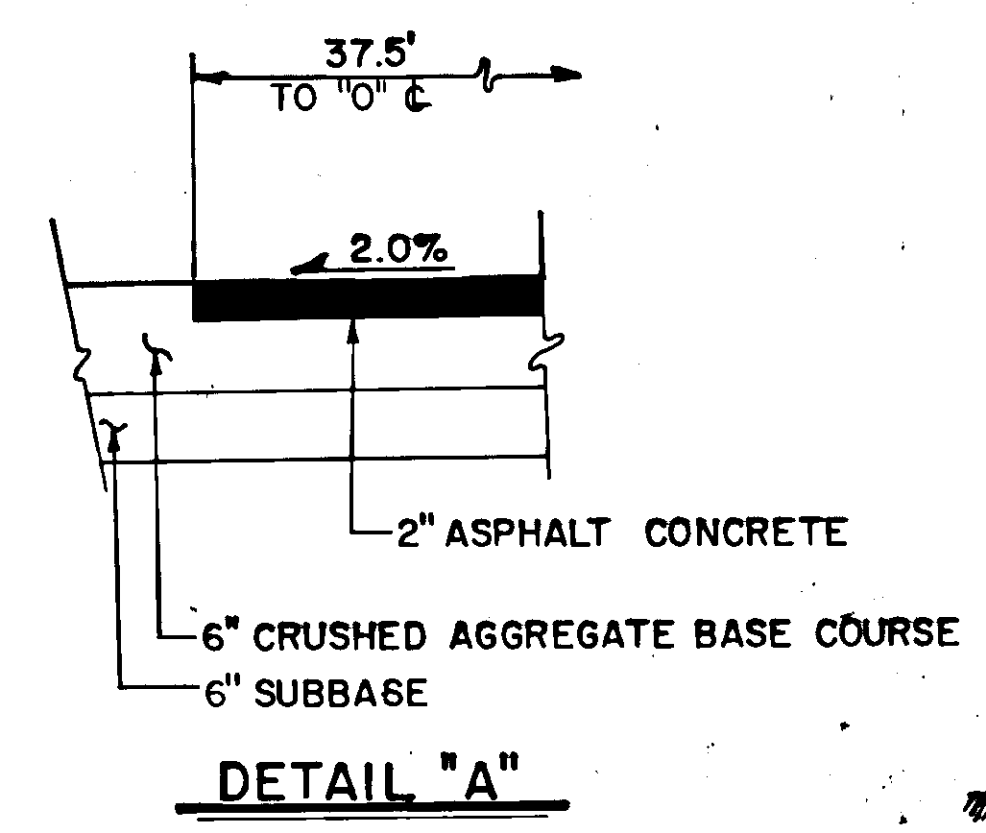
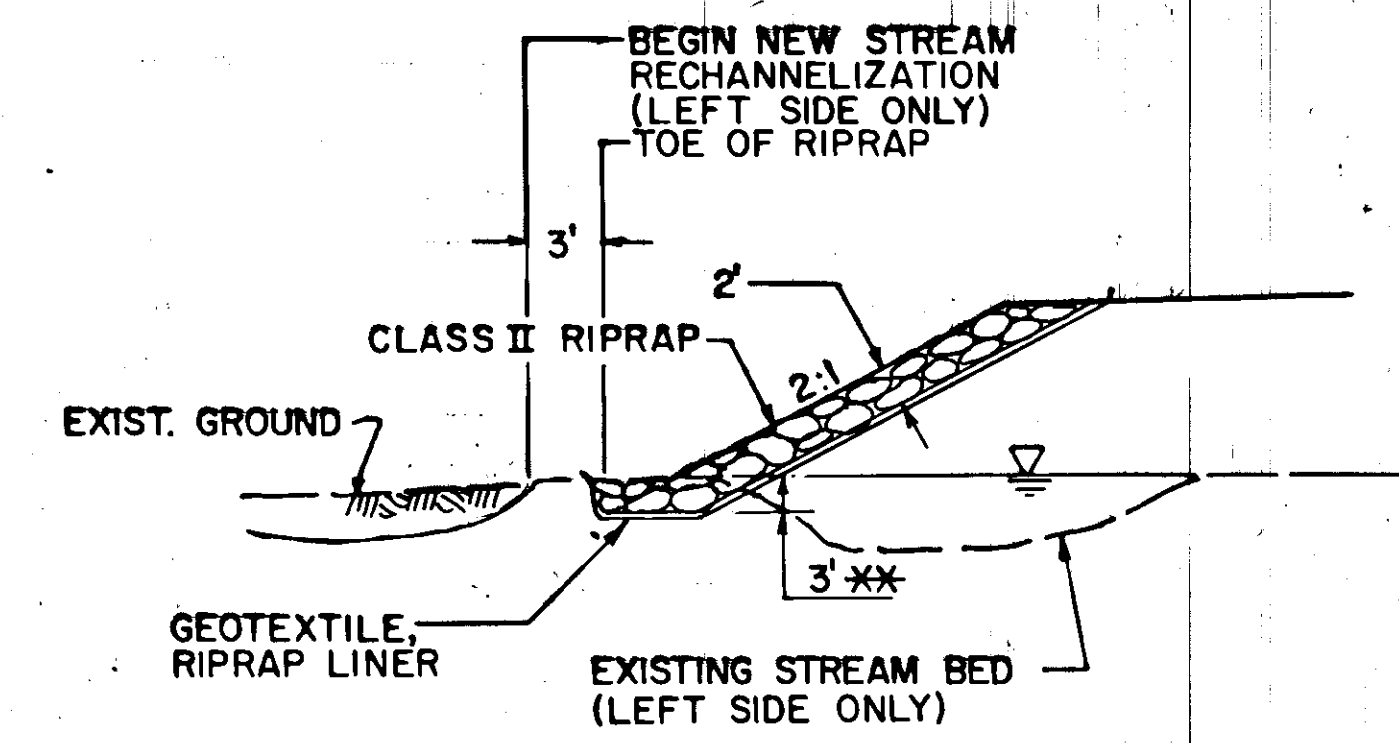
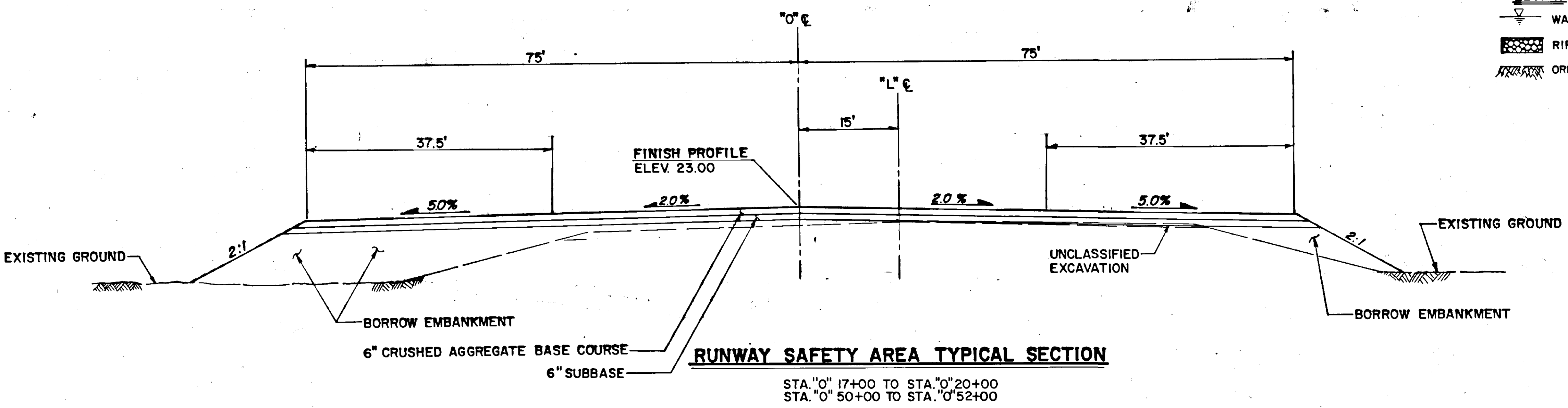
REARING POND

GARTINA CREEK

"O" STA. 36+31
"B" STA. 10+15

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA				

LEGEND
 WATER SURFACE
 RIPRAP
 ORIGINAL GROUND



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 S.E. REGION DESIGN & CONSTRUCTION

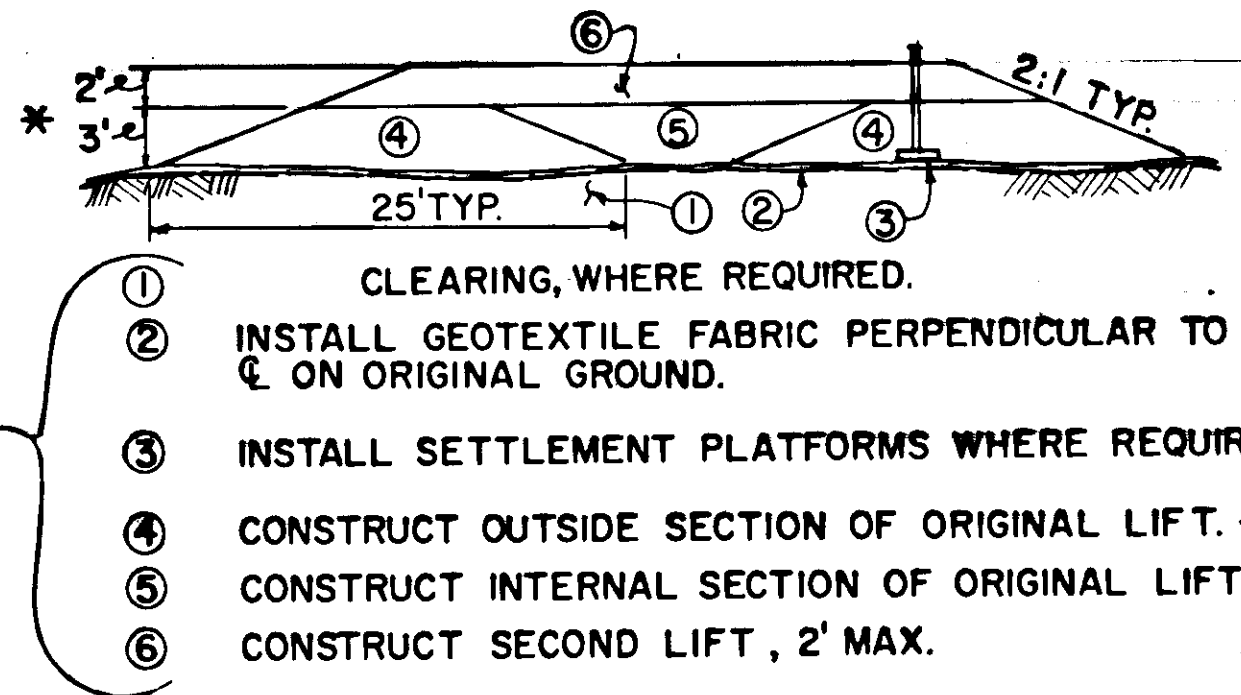
HOONAH AIRPORT
 PROJECT NO. 69267
 A.I.P. NO. 3-02-0125-01
 RUNWAY TYPICAL SECTIONS

* UPON INSPECTION BY THE ENGINEER, IF PEAT OR ORGANICS ARE PRESENT, THEY SHALL BE REMOVED (AS UNCLASSIFIED EXCAVATION.)

BY	DATE	CHANGE

APPROVED BY:	
ENGINEERING MANAGER	
APPROVED BY:	
DESIGN ENGINEER	
SCALE: NO SCALE	DESIGNED: DTR
CHECKED:	DATE:
	DATE:
	DATE:

STAGE 1

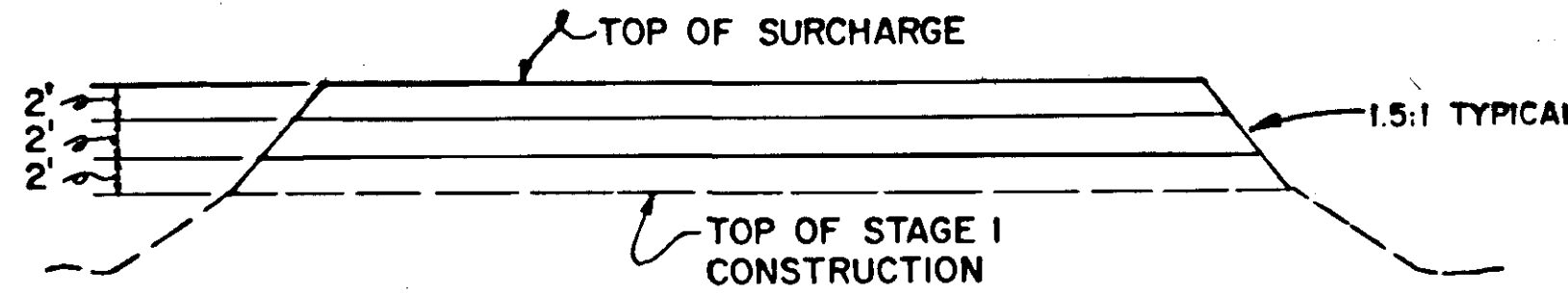


SEQUENCE OF CONSTRUCTION

- ① CLEARING, WHERE REQUIRED.
- ② INSTALL GEOTEXTILE FABRIC PERPENDICULAR TO \bar{C} ON ORIGINAL GROUND.
- ③ INSTALL SETTLEMENT PLATFORMS WHERE REQUIRED.
- ④ CONSTRUCT OUTSIDE SECTION OF ORIGINAL LIFT. *
- ⑤ CONSTRUCT INTERNAL SECTION OF ORIGINAL LIFT. *
- ⑥ CONSTRUCT SECOND LIFT, 2' MAX.

* USE FREE DRAINING EMBANKMENT
SEE SPECIFICATIONS EST. 54,500.C.Y.

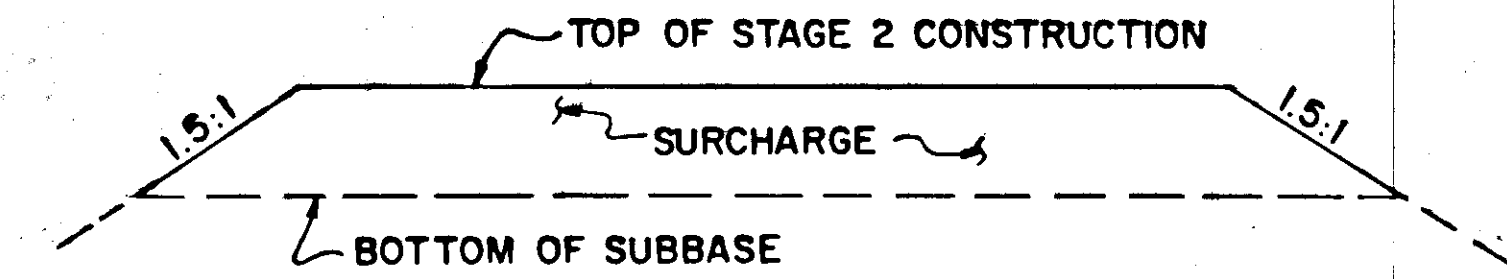
STAGE 2



SEQUENCE OF CONSTRUCTION

1. WAIT 14 DAYS FROM STAGE 1 CONSTRUCTION.
2. CONSTRUCT 2' LIFT.
3. WAIT UNTIL PORE PRESSURE READINGS ARE ACCEPTABLE.
4. REPEAT STEPS 2 & 3 TO THE TOP OF SURCHARGE HEIGHT.

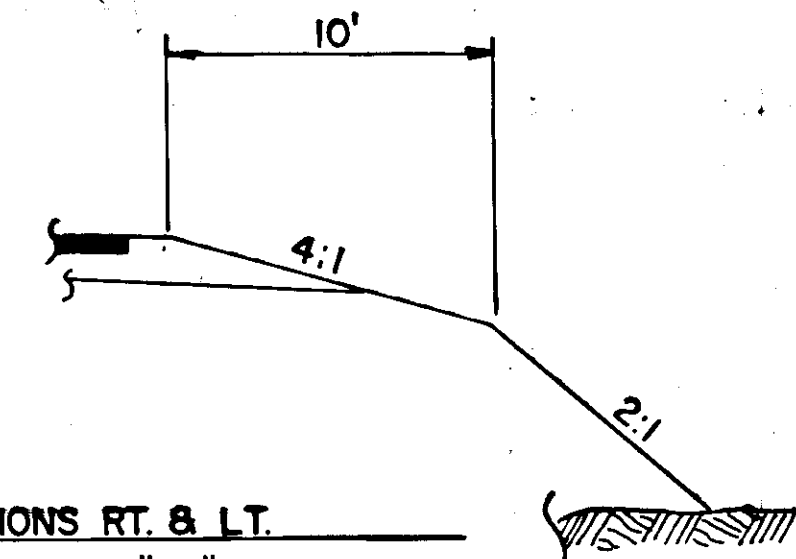
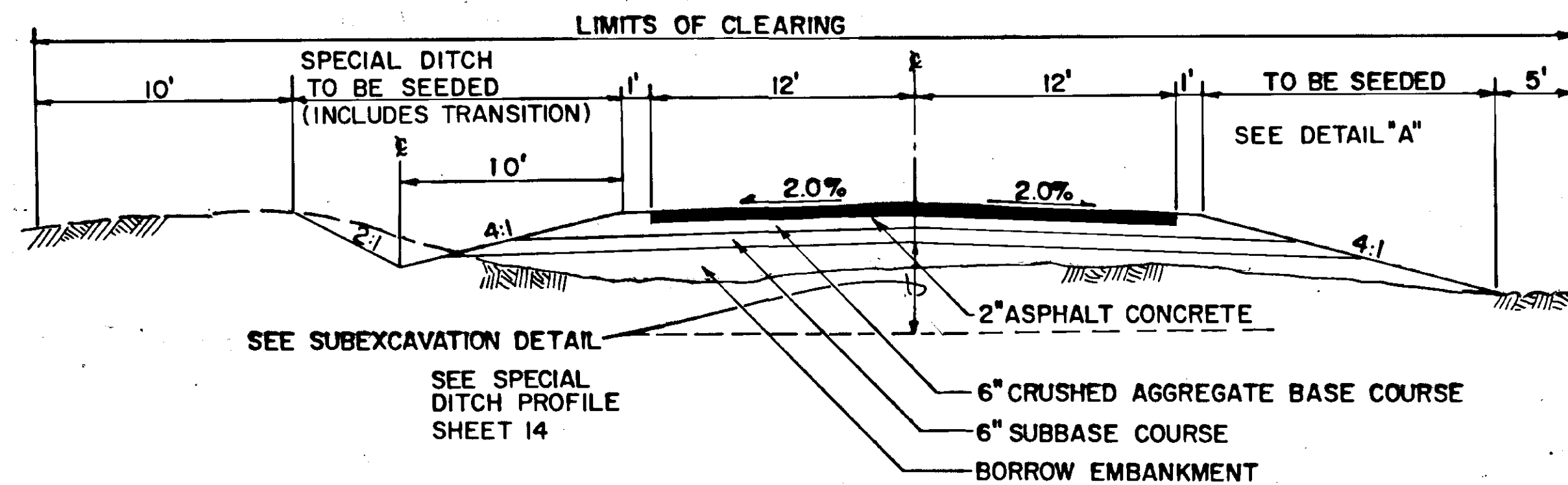
STAGE 3



SEQUENCE OF CONSTRUCTION

1. REMOVE SURCHARGE MATERIAL TO THE BOTTOM OF THE SUBBASE ELEVATION.
2. PLACE SUBBASE, BASE & PAVEMENT AS SHOWN ON TYPICAL SECTIONS.

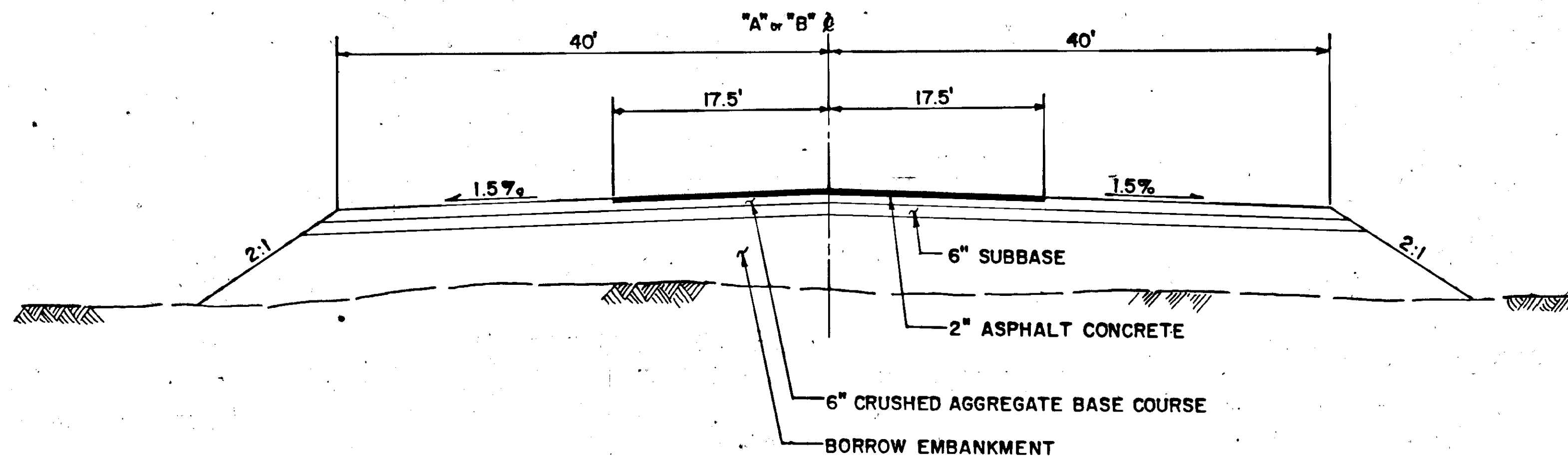
**CONSTRUCTION SEQUENCE FOR
ACCESS ROAD, LEASE LOTS, APRON & TAXIWAY**



**DETAIL "A"
ACCESS ROAD**

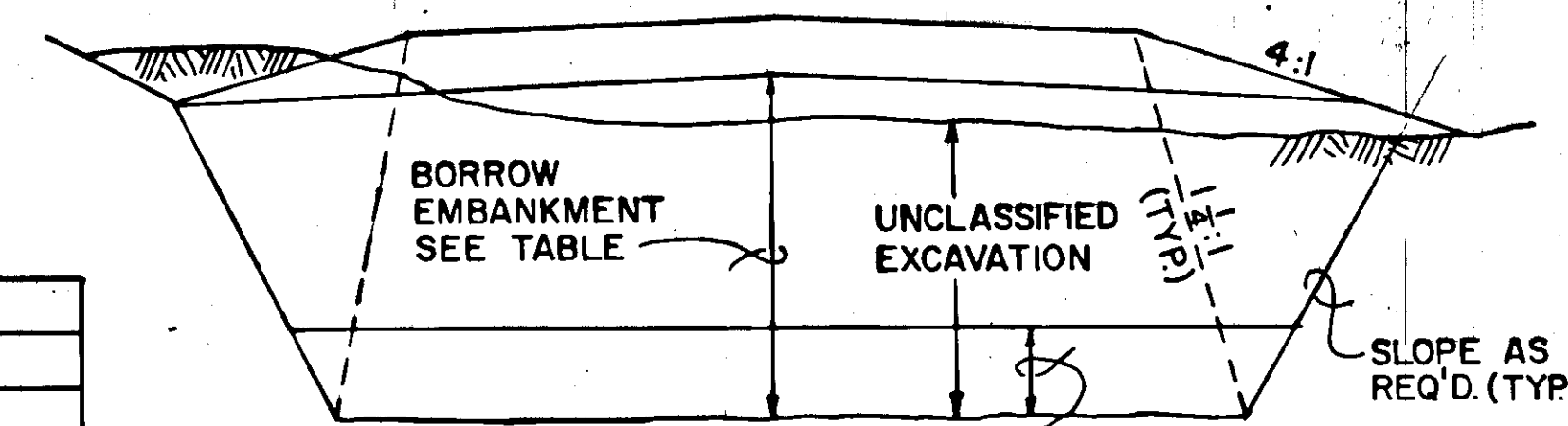
ACCESS ROAD TYPICAL SECTION

STA. "OL" 9+94.46 TO STA. "OL" 21+06.20
PAVEMENT MARKINGS CONSIST OF CENTERLINE & SHOULDER, IN ACCORDANCE WITH STANDARD DRAWING T-21.01, & THE ALASKA TRAFFIC MANUAL.



TAXIWAY "A" & "B" TYPICAL SECTIONS

STA. "A" 10+90 TO STA. "A" 17+61.39
STA. "B" 10+90 TO STA. "B" 18+79.91



**SUBEXCAVATION DETAIL
ACCESS ROAD**

DEPTH OF BORROW	
STA. TO STA.	DEPTH
11+20 - 11+40	17'
13+00 - 17+00	6'
18+00 - 20+50	24'

** BORROW, TYPE "D" SHALL BE USED WHERE EXCESSIVE MUCK & WATER ARE PRESENT IN A DEEP HOLE AND EXCAVATION TO A CLEAN HARD LENSE IS NOT POSSIBLE BY CONVENTIONAL EXCAVATION METHODS.



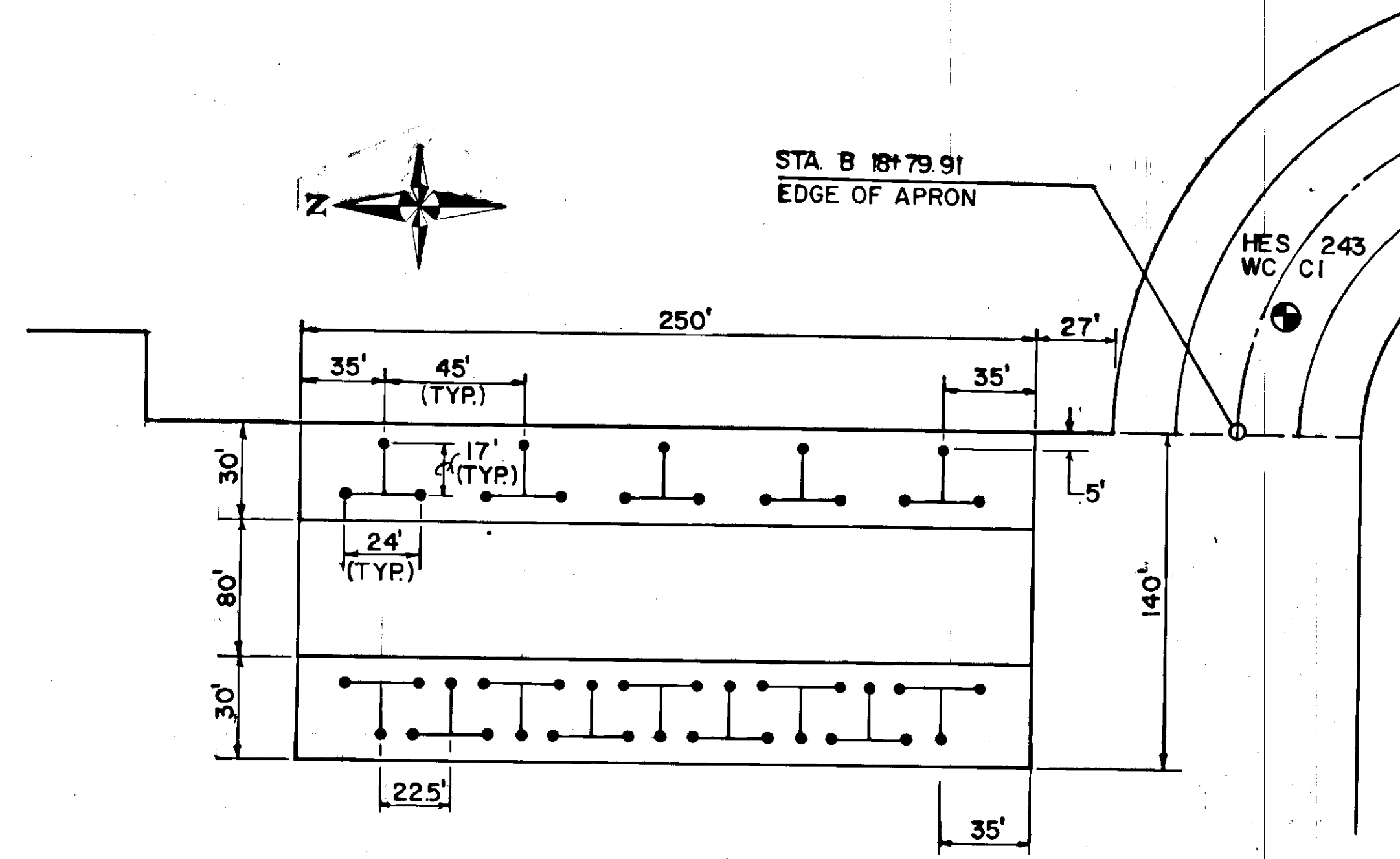
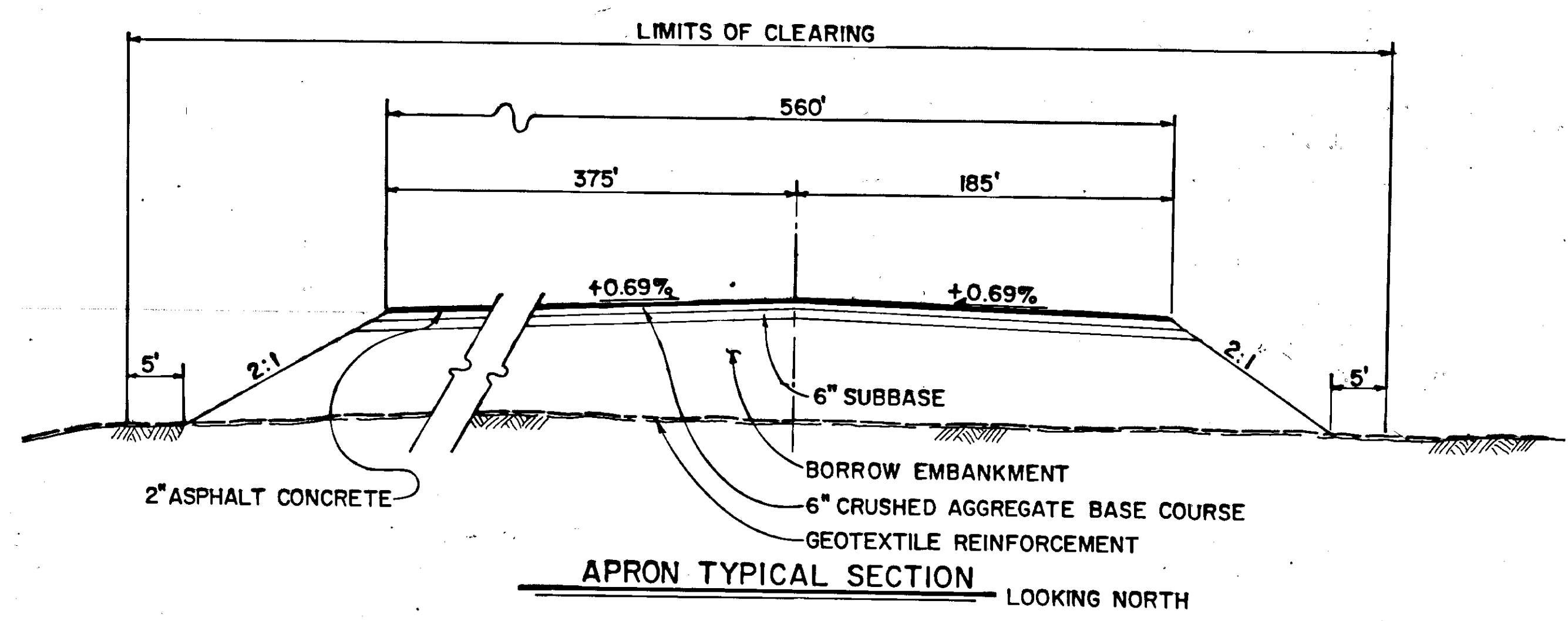
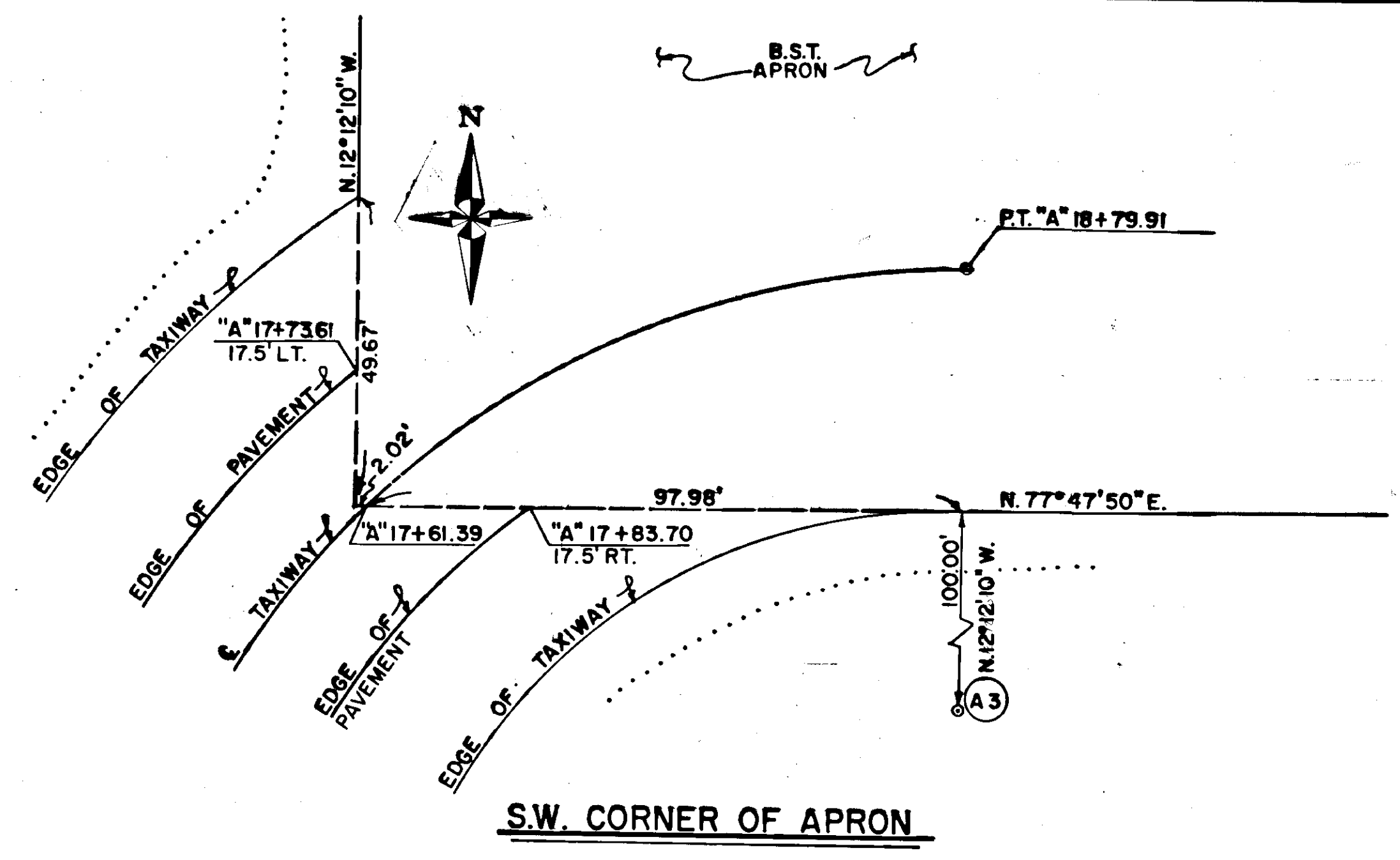
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
S.E. REGION DESIGN & CONSTRUCTION

HOONAH AIRPORT
PROJECT NO. 69267
A.I.P. NO. 3-02-0125-01

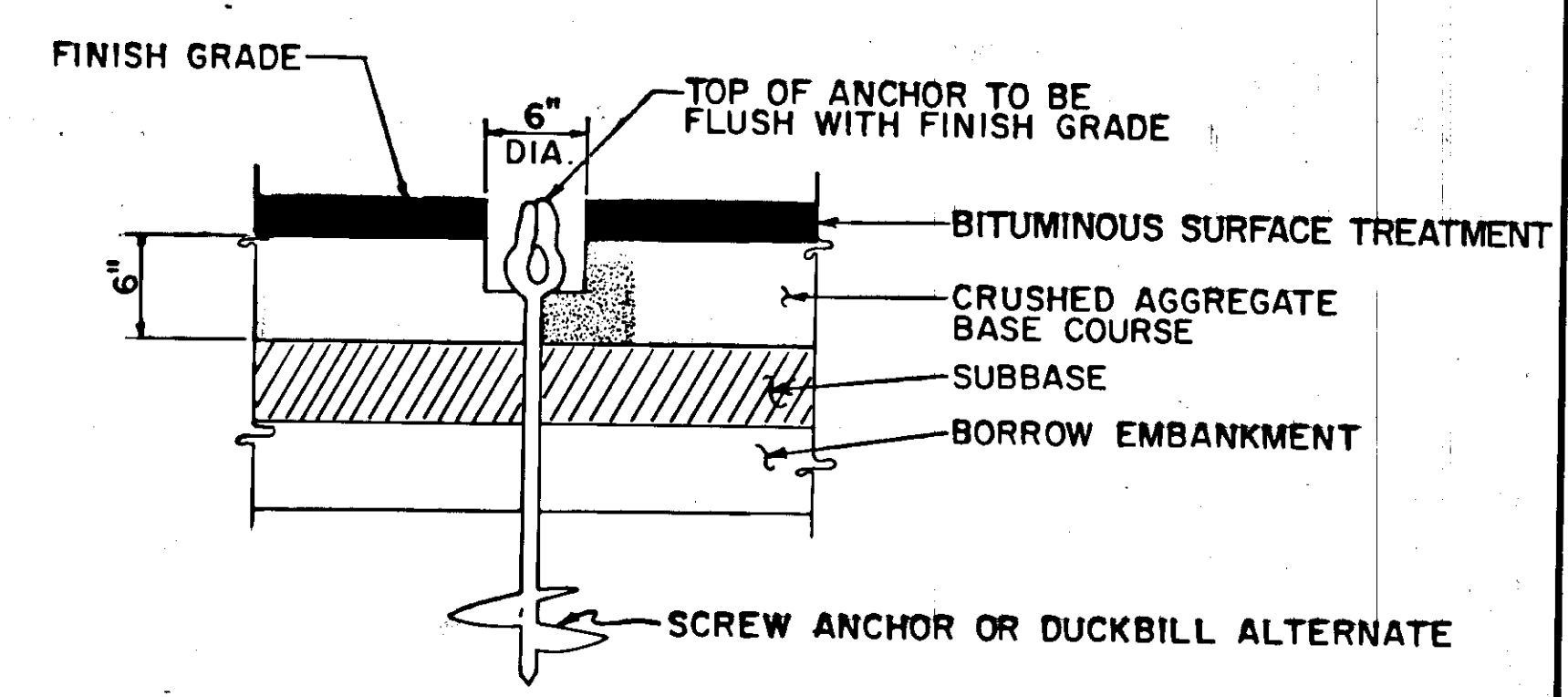
TAXIWAY TYPICAL SECTIONS
CONSTRUCTION SEQUENCE DETAILS

APPROVED BY:			ENGINEERING MANAGER		
APPROVED BY:			DESIGN ENGINEER		
BY	DATE	CHANGE	SCALE:	DESIGNED: DTR	DRAWN: RKB
REVISIONS			NO SCALE	CHECKED:	DATE:

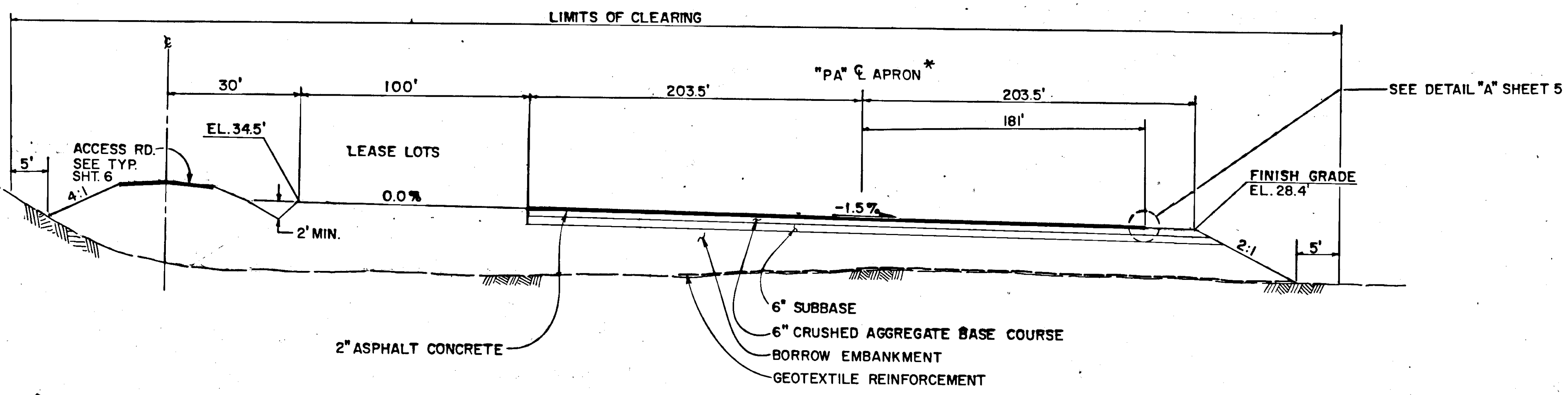
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA				



TIE-DOWN DETAIL

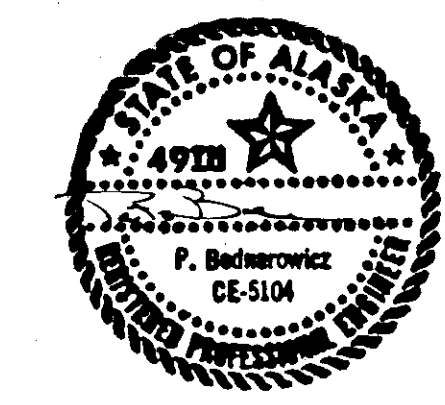


TIE-DOWN ANCHOR TYPICAL SECTION



APRON, & LEASE LOT TYPICAL SECTION LOOKING EAST

*APRON CENTERLINE IS 938.5' LT. OF RUNWAY CENTERLINE
STA. "PA" 29+21 TO STA. "PA" 34+81



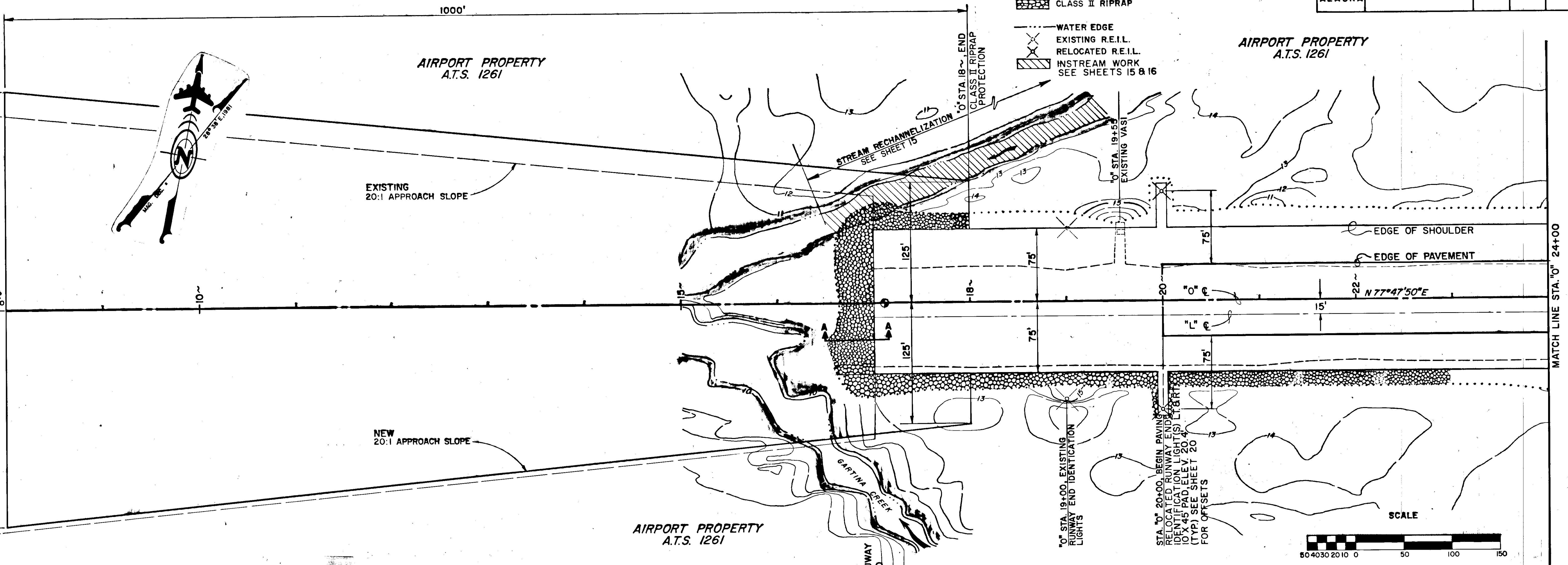
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
S.E. REGION DESIGN & CONSTRUCTION

HOONAH AIRPORT
PROJECT NO. 69267
A.I.P. NO. 3-02-0125-01

**APRON - TYPICAL SECTIONS
AND DETAILS**

APPROVED BY:		ENGINEERING MANAGER	
APPROVED BY:		ENGINEERING MANAGER	
BY	DATE	CHANGE	REVISIONS
SCALE: NONE		DESIGNED: DK	DESIGN ENGINEER
		CHECKED:	DRAWN: WDA
		DATE:	SHEET 7 OF 31

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA				



TIDAL DATA

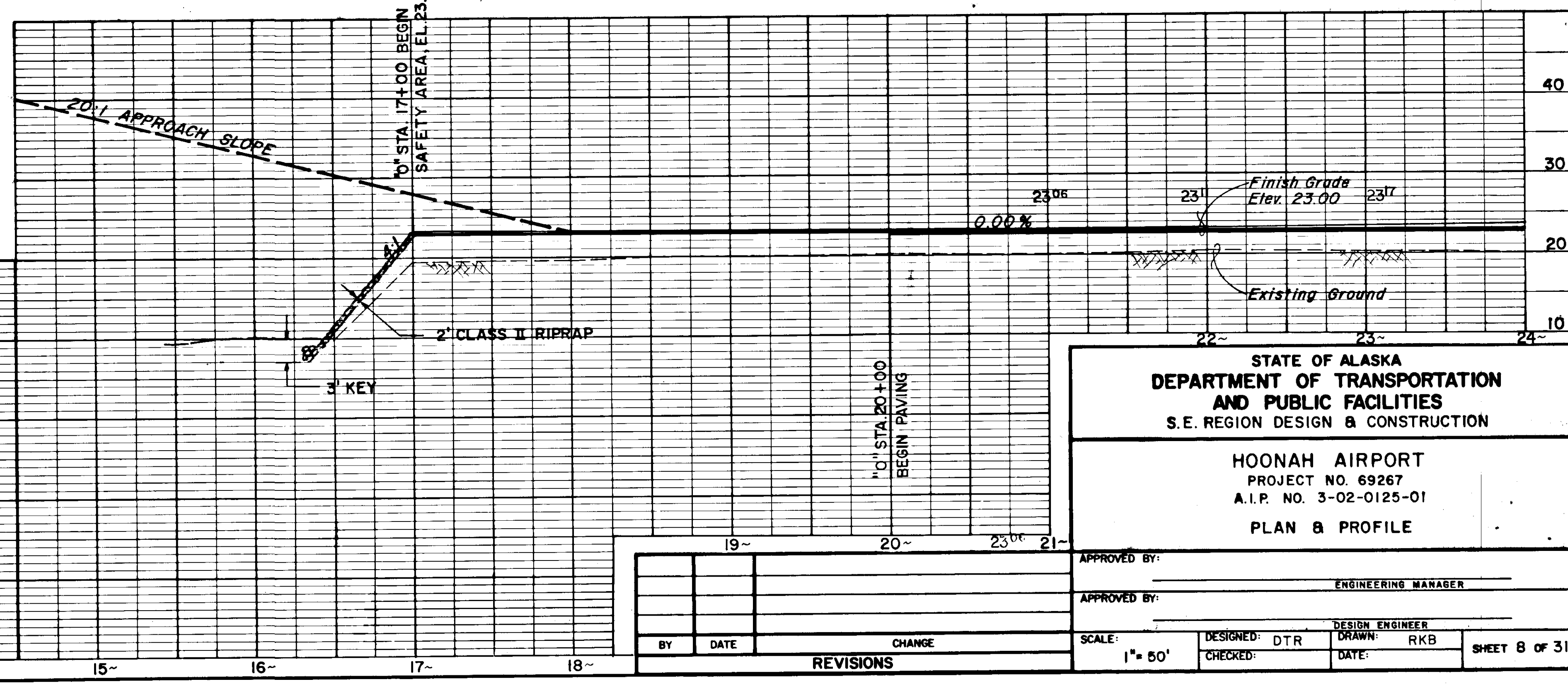
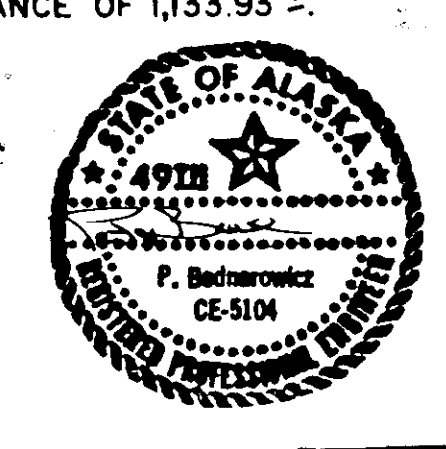
	ELEVATION
MEAN HIGHER HIGH WATER	14.80
MEAN HIGH WATER	13.90
MEAN TIDE LEVEL	7.70
MEAN LOW WATER	1.50
MEAN LOWER LOW WATER	0.00
EXTREME HIGH TIDE	19.30

(BASED ON NOS TIDAL DATA 1959)

BASIS OF HORIZONTAL & VERTICAL CONTROL

○ = STA. "0" 17+11.61, 12.96' RT., # 5 REBAR WITH DOT/PF ALUMINUM SURVEY CAP. ELEVATION IS 20.03.

W.C. M.C. I, U.S.S. 2595, BEARS N.28° 06' 04" E. A DISTANCE OF 1,133.93' ±.



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 S.E. REGION DESIGN & CONSTRUCTION

HOONAH AIRPORT
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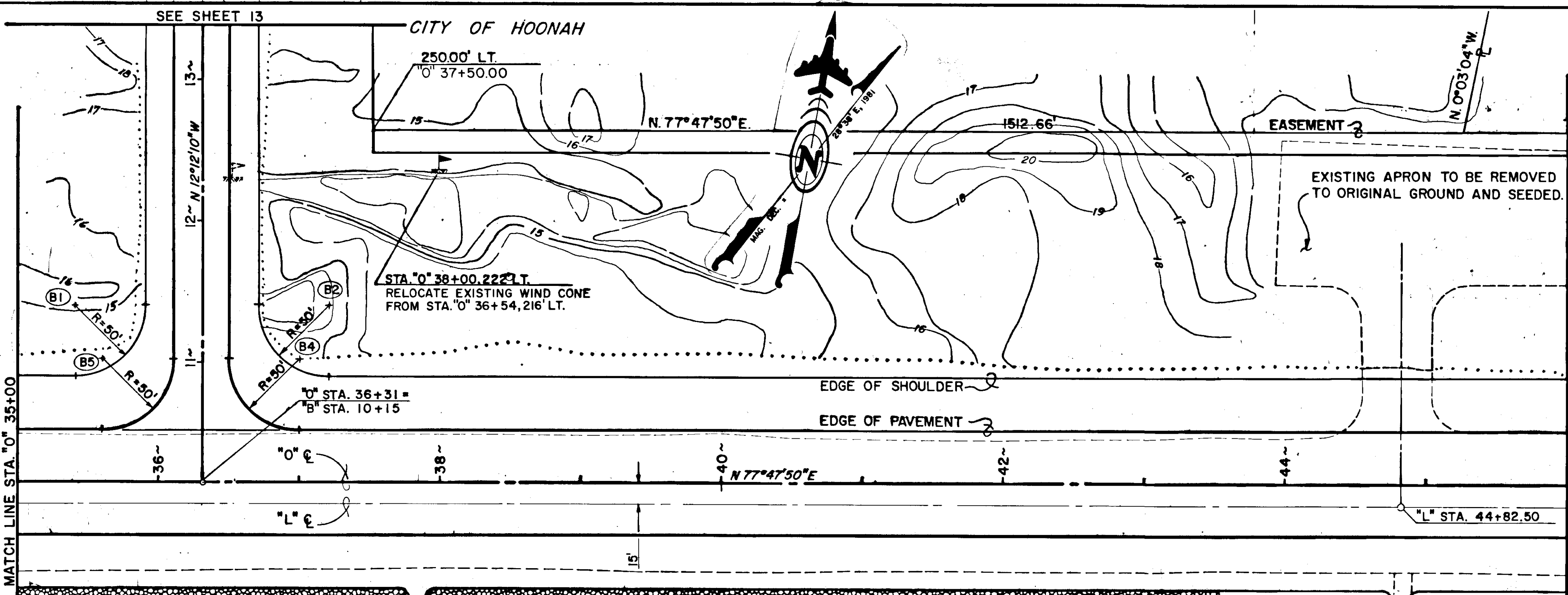
PLAN & PROFILE

BY		DATE	CHANGE	REVISIONS

APPROVED BY:		ENGINEERING MANAGER
APPROVED BY:		DESIGN ENGINEER
SCALE:	1" = 50'	DESIGNED: DTR
CHECKED:		DRAWN: RKB
DATE:		

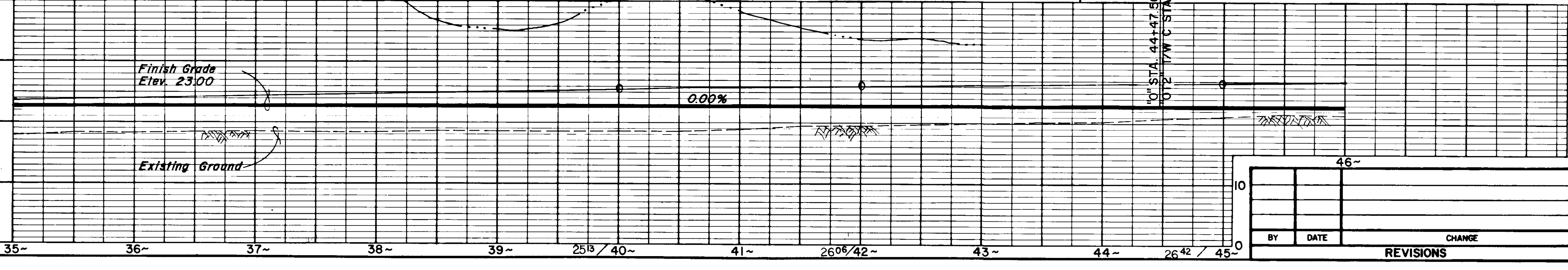
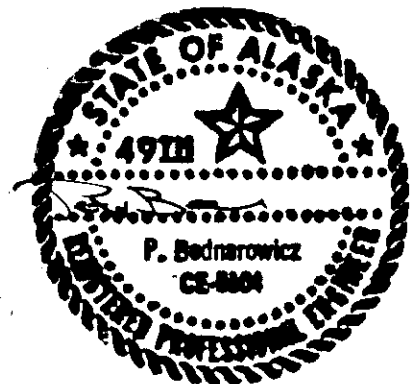
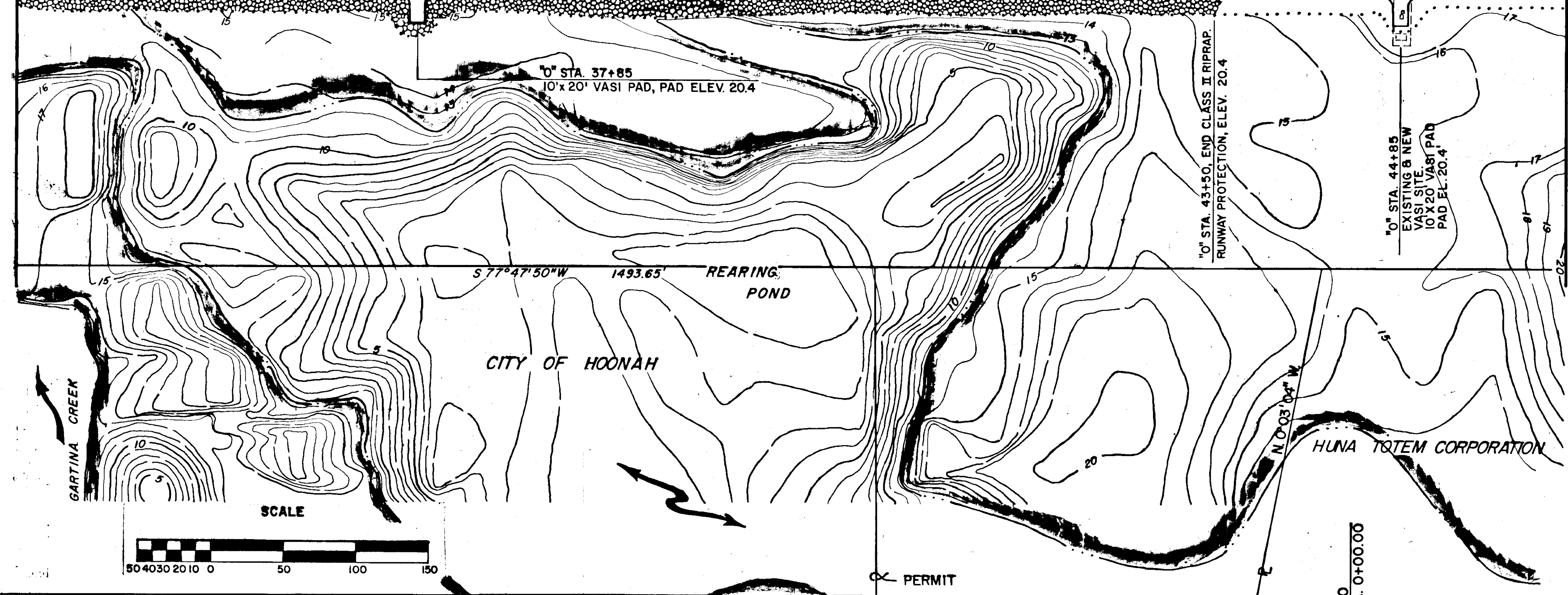
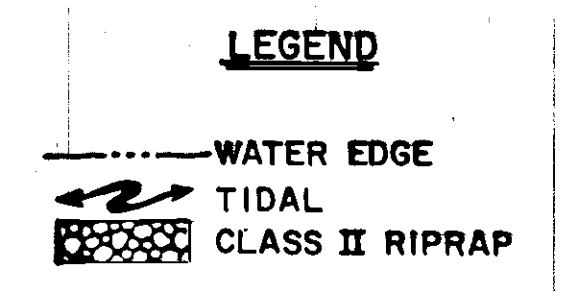
SHEET 8 OF 31

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA				



RADIUS POINT TABLE

POINT	STATION	OFFSET
B1	"B" 11+40	90.0' LT.
B2	"B" 11+40	90.0' RT.
B3	"B" 16+50	140.0' LT.
B4	"B" 11+02.5	67.5' RT.
B5	"B" 11+02.5	67.5' LT.



BY	DATE	CHANGE

REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
S.E. REGION DESIGN & CONSTRUCTION

HOONAH AIRPORT
PROJECT NO. 69267
A.I.P. NO. 3-02-0125-01
PLAN & PROFILE

APPROVED BY: _____
ENGINEERING MANAGER

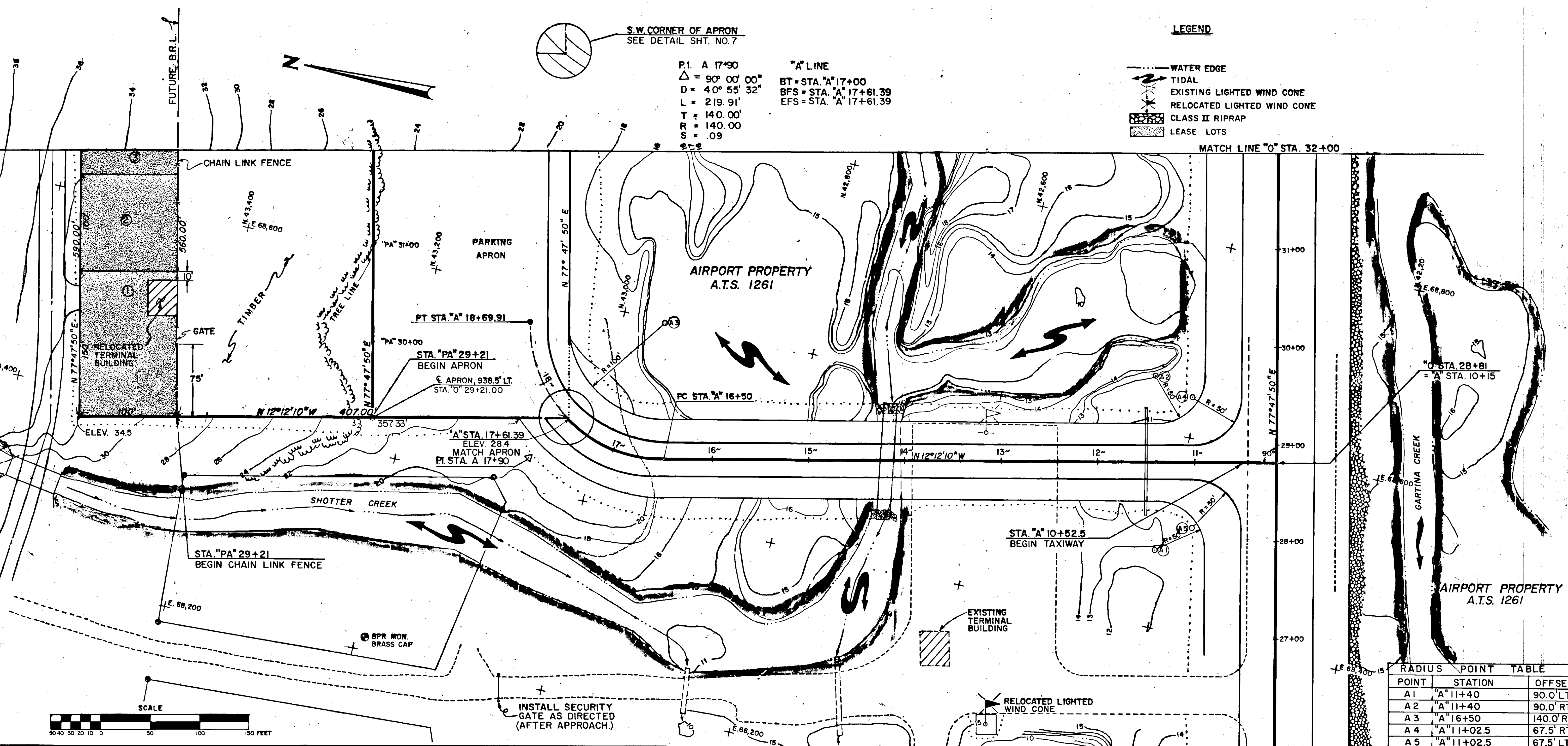
APPROVED BY: _____
DESIGN ENGINEER

SCALE: 1" = 50'

DESIGNED: DTR
CHECKED: _____

DRAWN: RKB
DATE: _____

SHEET 10 OF 31



S.W. CORNER OF APRON
SEE DETAIL SHT. NO. 7

P.I. A 17+90
 $\Delta = 90^\circ 00' 00''$
 $D = 40^\circ 55' 32''$
 $L = 219.91'$
 $T = 140.00'$
 $R = 140.00'$
 $S = .09$
 "A" LINE
 BT = STA. "A" 17+00
 BFS = STA. "A" 17+61.39
 EFS = STA. "A" 17+61.39

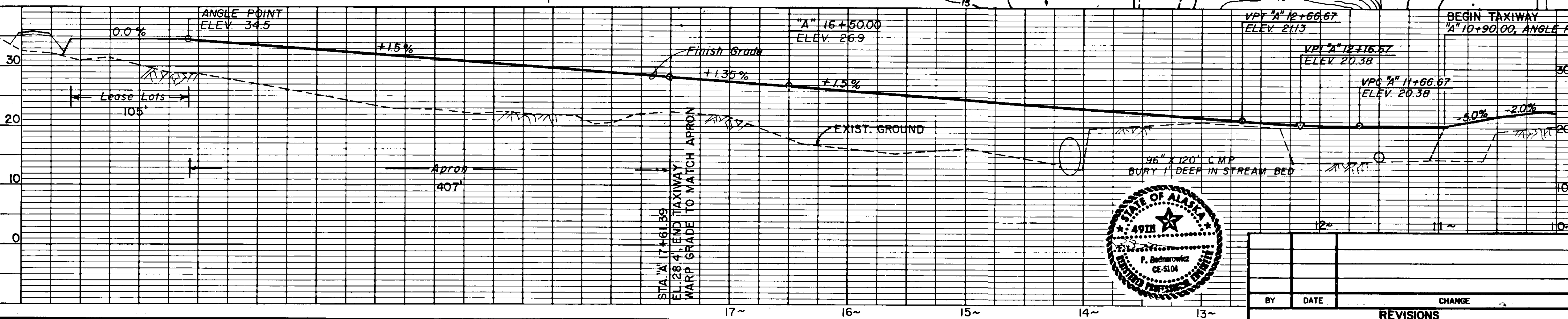
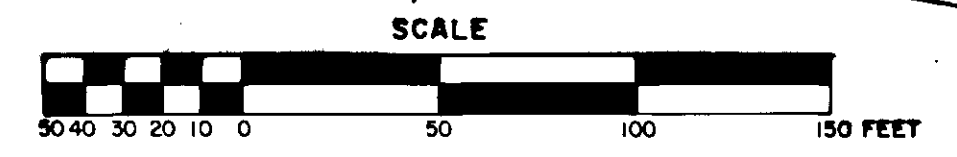
LEGEND

- WATER EDGE
- TIDAL
- EXISTING LIGHTED WIND CONE
- RELOCATED LIGHTED WIND CONE
- CLASS II RIPRAP
- LEASE LOTS

MATCH LINE "O" STA. 32+00

RADIUS POINT TABLE

POINT	STATION	OFFSET
A1	"A" 11+40	90.0' LT.
A2	"A" 11+40	90.0' RT.
A3	"A" 16+50	140.0' RT.
A4	"A" 11+02.5	67.5' RT.
A5	"A" 11+02.5	67.5' LT.



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 AND PUBLIC FACILITIES
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HOONAH AIRPORT
 PROJECT NO. 69267
 A.I.P. NO. 3-02-0125-01
 TAXIWAY "A" & APRON
 PLAN & PROFILE

APPROVED BY: _____
 ENGINEERING MANAGER

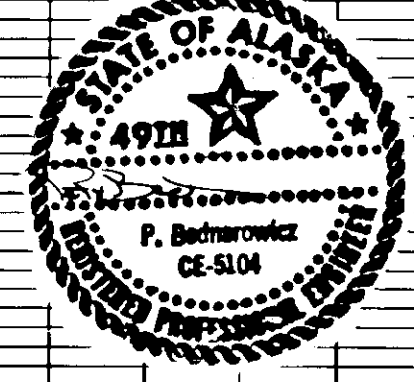
APPROVED BY: _____
 DESIGN ENGINEER

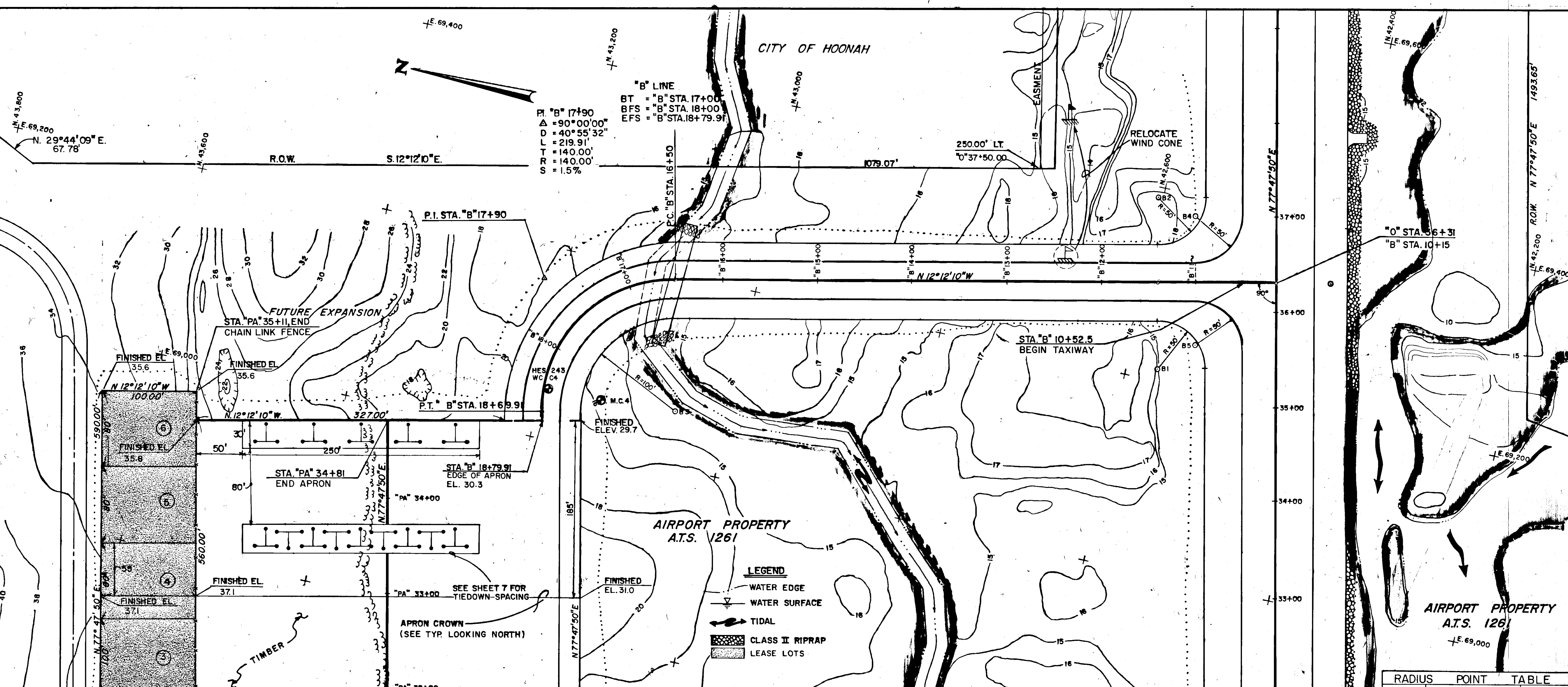
BY: _____ DATE: _____ CHANGE: _____

SCALE: 1" = 50'

DESIGNED: PB
 CHECKED: DK
 DRAWN: W.A.
 DATE: _____

SHEET 12 OF 31

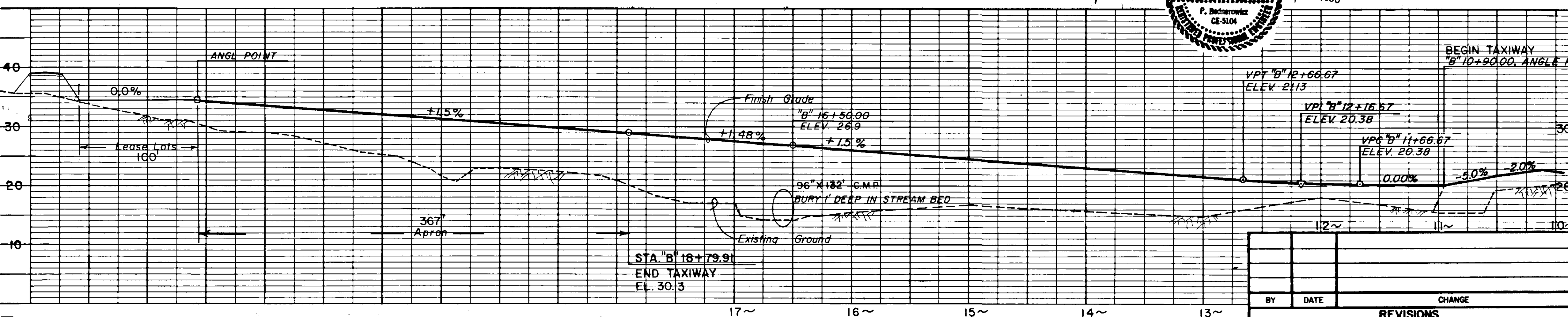
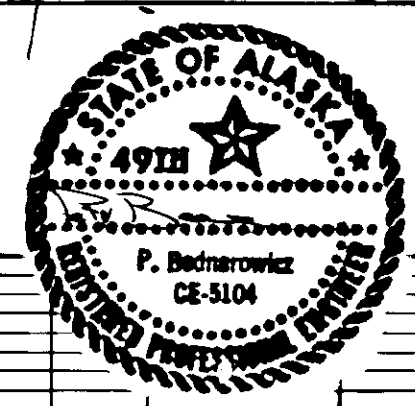
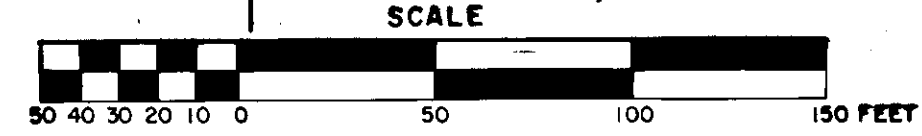




"B" LINE
 BT = "B" STA. 17+00
 BFS = "B" STA. 18+00
 EFS = "B" STA. 18+79.91
 P.I. "B" 17+90
 Δ = 90°00'00"
 D = 40°55'32"
 L = 219.91'
 T = 140.00'
 R = 140.00'
 S = 1.5%

- LEGEND**
- WATER EDGE
 - WATER SURFACE
 - ← TIDAL
 - ▨ CLASS II RIPRAP
 - ▨ LEASE LOTS

POINT	STATION	OFFSET
B1	"B" 11+40	90.0' LT.
B2	"B" 11+40	90.0' RT.
B3	"B" 16+50	140.0' LT.
B4	"B" 11+02.5	67.5' RT.
B5	"B" 11+02.5	67.5' LT.



STATE OF ALASKA
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HOONAH AIRPORT
 PROJECT NO. 69267
 A.I.P. NO. 3-02-0125-01
 TAXIWAY "B" & APRON
 PLAN & PROFILE

BY	DATE	CHANGE
REVISIONS		

APPROVED BY: _____
 ENGINEERING MANAGER

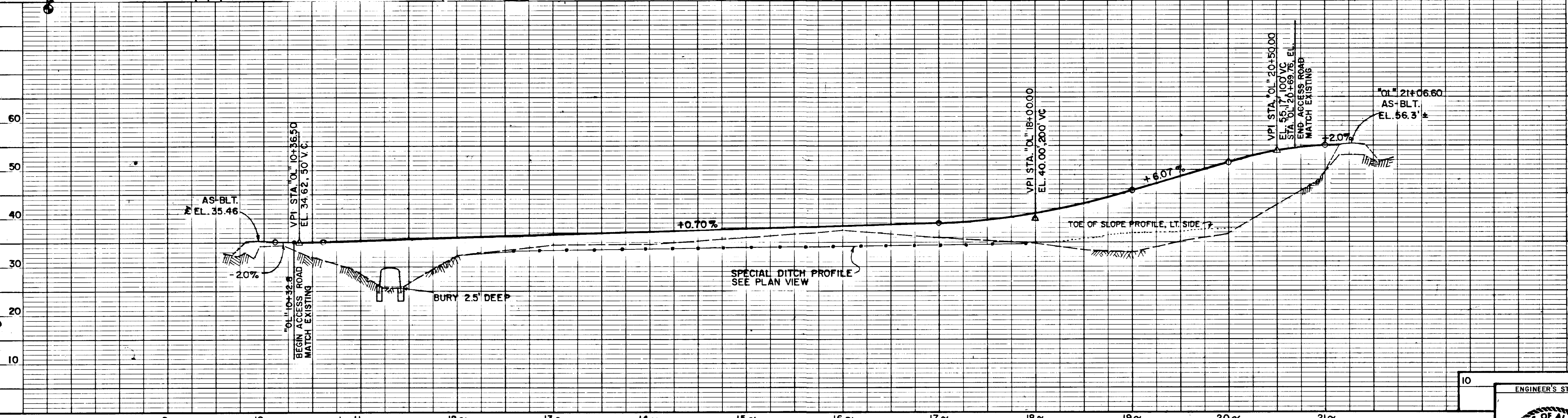
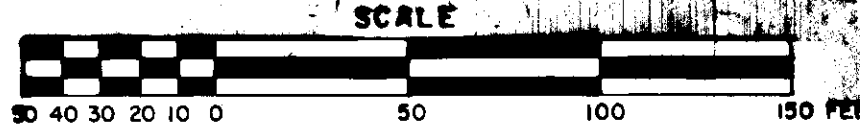
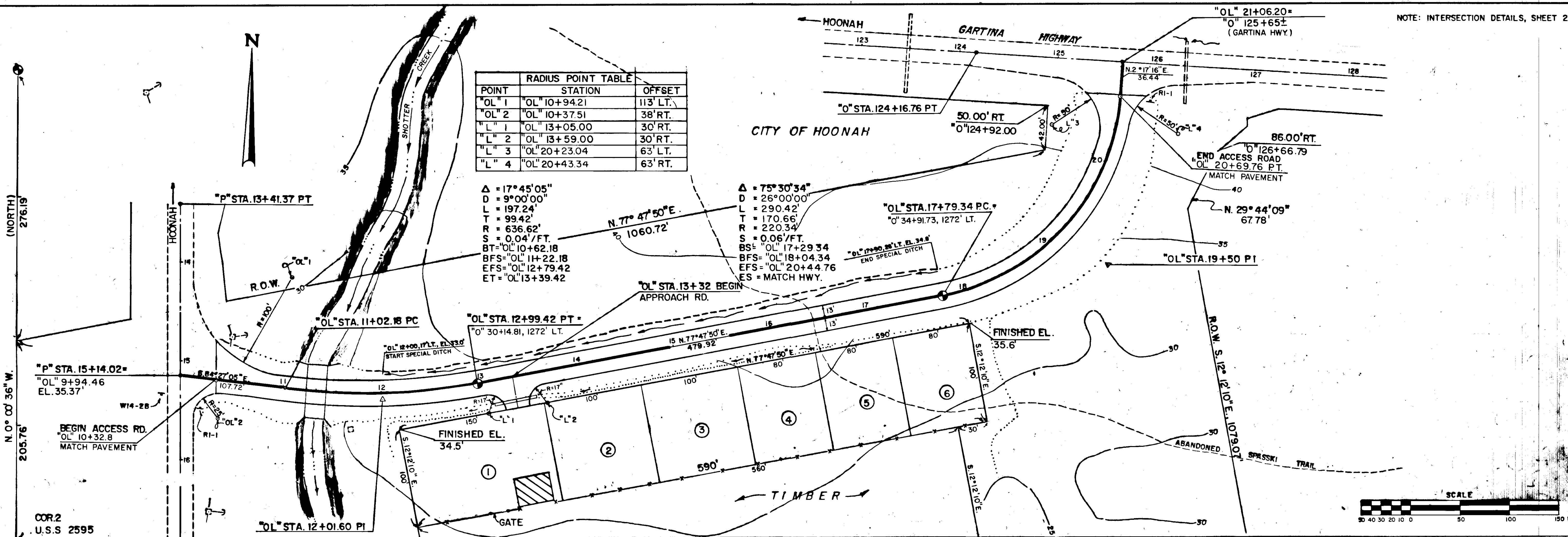
APPROVED BY: _____
 DESIGN ENGINEER

SCALE: 1" = 50'

DESIGNED: PB
 CHECKED: DK

DRAWN: WA
 DATE: _____

SHEET 13 OF 31



BY	DATE	DESCRIPTION OF CHANGE
RECORD OF REVISIONS		

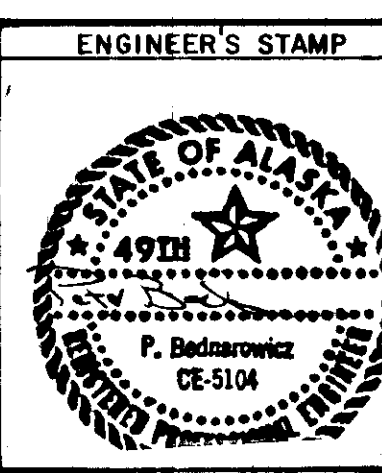
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

HOONAH AIRPORT
 PROJECT NO. 69267, A.I.P. NO. 3-02-0125-01
 ACCESS ROAD
PLAN & PROFILE

APPROVED BY: _____
 RECOMMENDED BY: _____
 PREPARED BY: _____









DESIGNED BY: PB
 DRAWN BY: WA
 CHECKED BY: DK

HORIZ. SCALE: 1"=50'
 VERT. SCALE: 1"=10'
 DATE: _____
 SHEET 14 OF 31



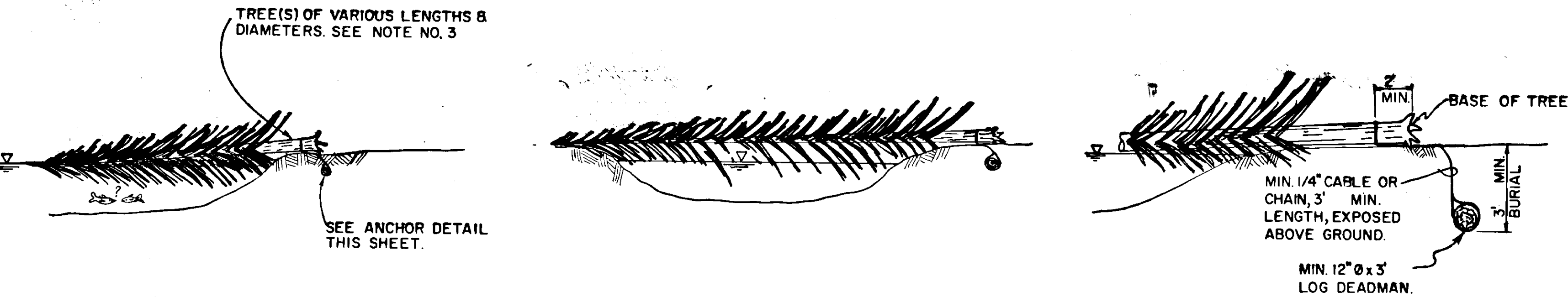
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA				

LEGEND

-  WATER SURFACE.
-  UNCLASSIFIED EXCAVATION, INSTREAM WORK
-  BORROW EMBANKMENT
-  RIPRAP (AS SPECIFIED)
-  WASHED GRAVEL
-  TREE
-  UNCLASSIFIED EMBANKMENT
-  WATER EDGE

GENERAL NOTES

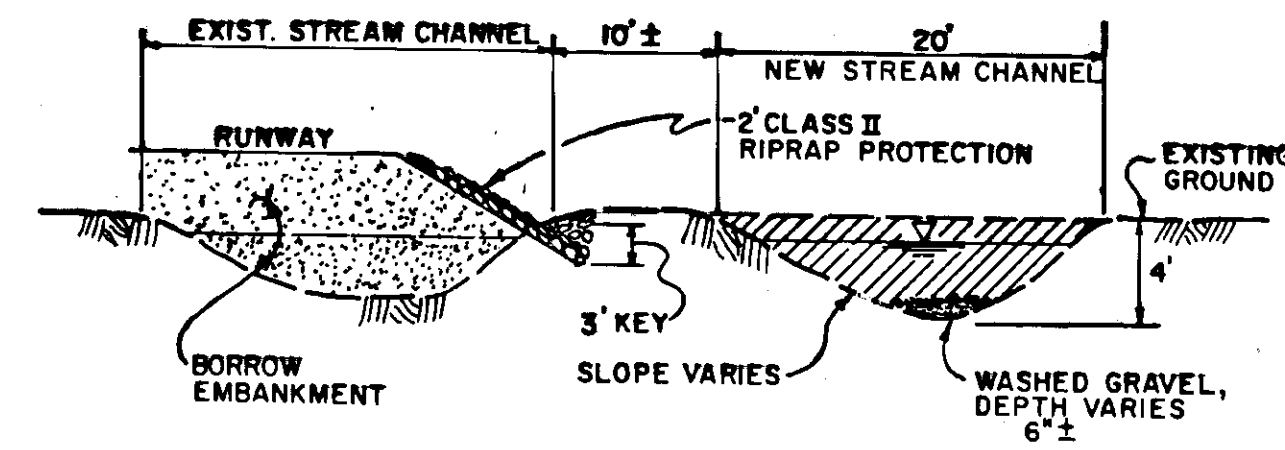
1. CONTRACTOR SHALL PLACE AND ANCHOR 11 TREES ALONG THE REARING POND AND 4 TREES ACROSS THE STREAM RECHANNELIZATION AREA AS SHOWN.
2. ACCEPTABLE TREE SPECIES TO BE USED MAY VARY ACCORDING TO AVAILABILITY. THE PREFERRED SPECIE ORDER ARE:
 A. CEDAR
 B. HEMLOCK
 C. SPRUCE
 (ALDERS ARE NOT ACCEPTABLE)
3. TREES SHALL BE A MINIMUM 20' IN LENGTH, & A MINIMUM OF ONE FOOT IN BUTT DIAMETER.
4. CABLE OR CHAIN FOR ANCHORING SHALL BE GALVANIZED.
5. EXCAVATED AREA SHALL BE SEEDED, AND AREAS PREVIOUSLY VEGITATED AND DISTURBED SHALL BE SEEDED.



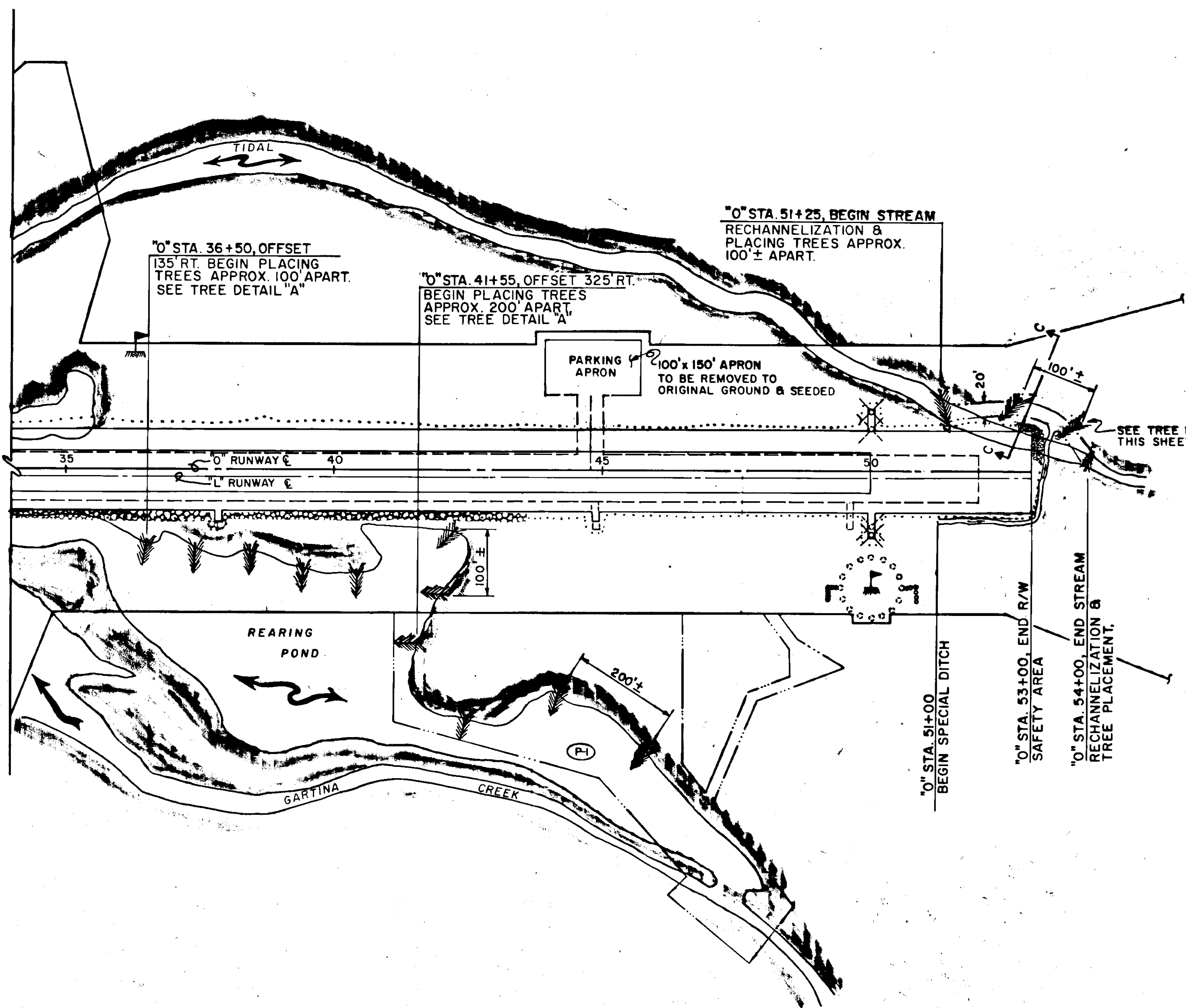
TREE DETAIL A

TREE DETAIL B

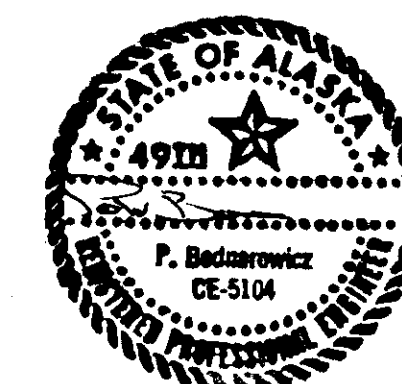
ANCHOR DETAIL



SECTION C-C



TREE PLACEMENT PLAN

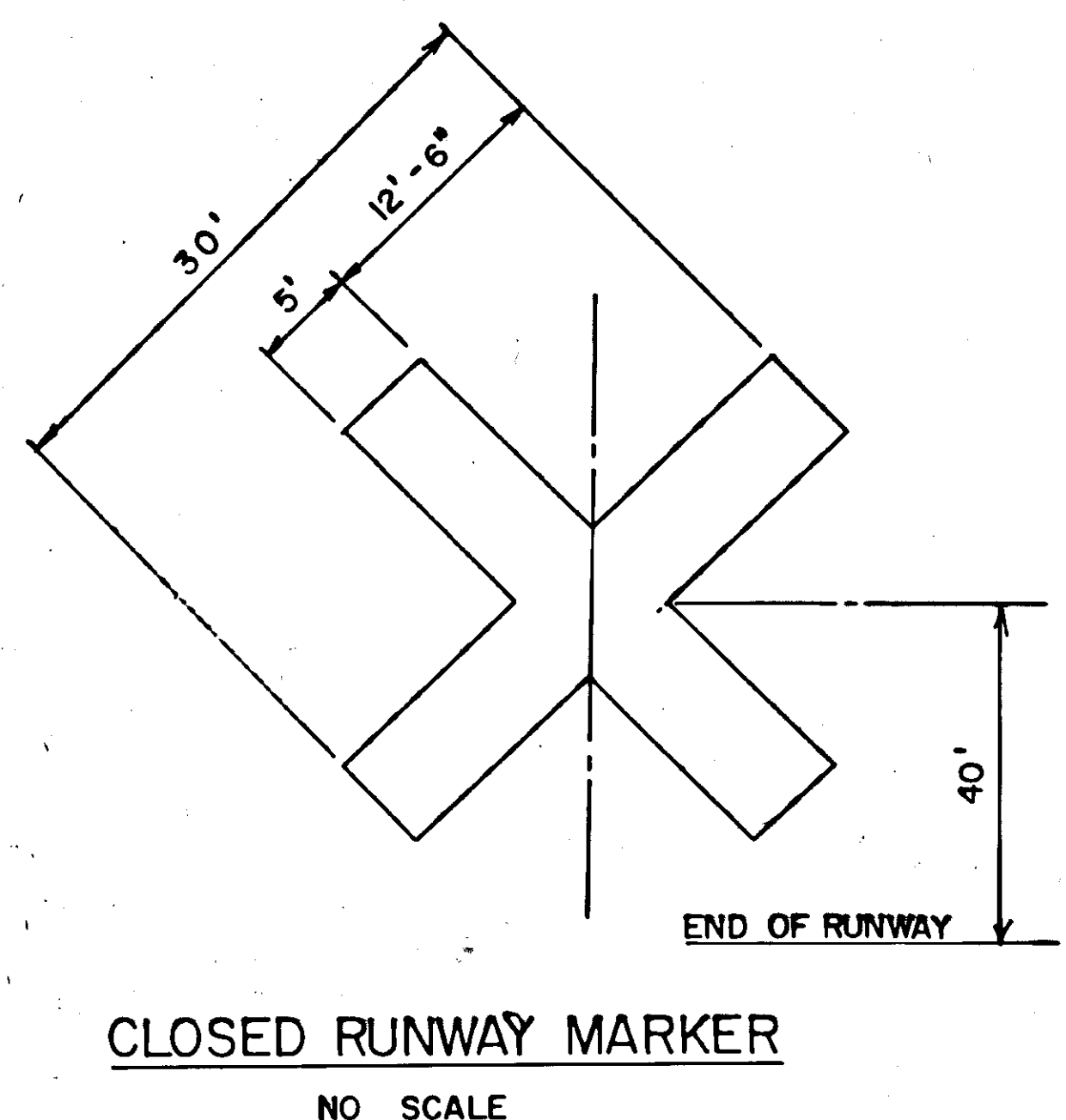


STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 S.E. REGION DESIGN & CONSTRUCTION

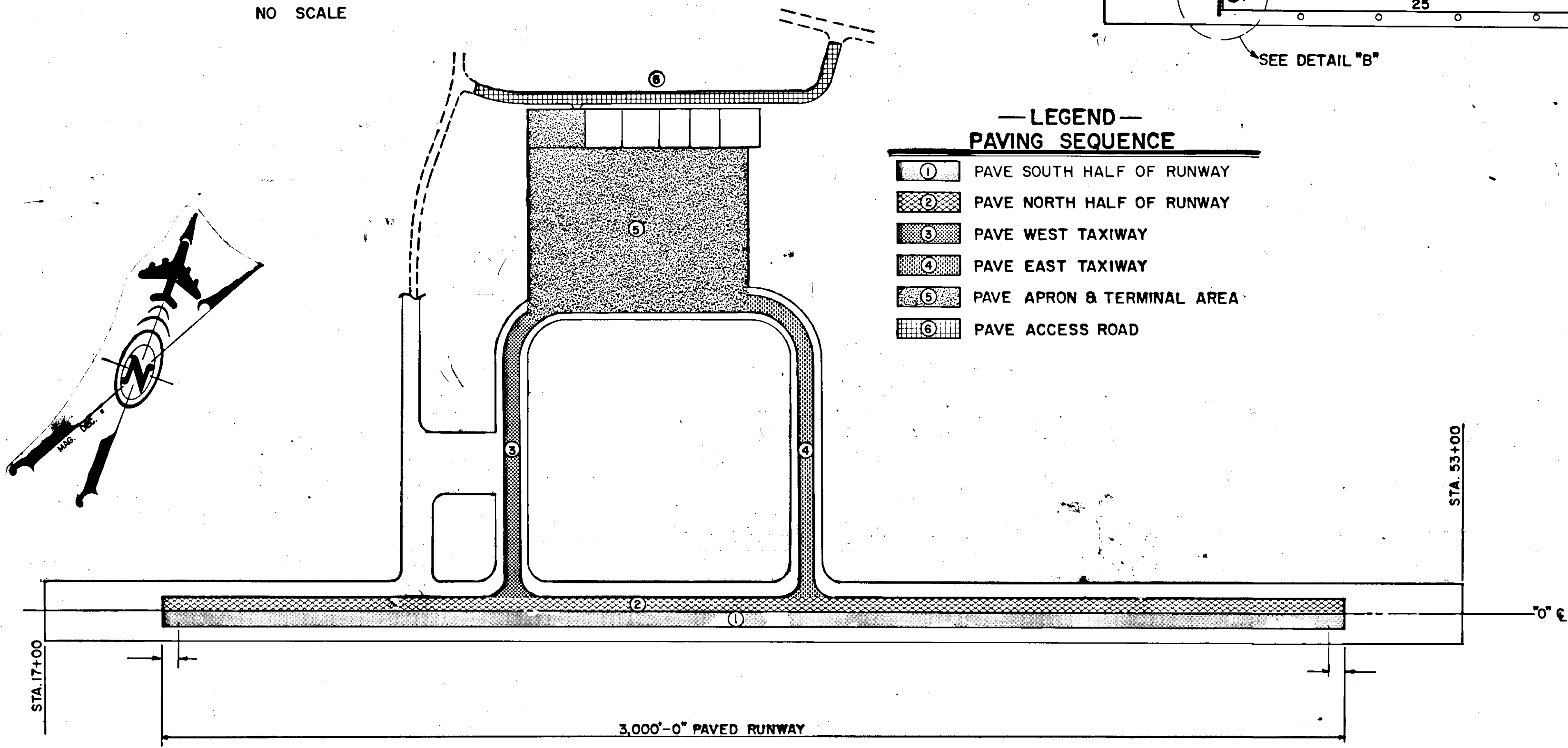
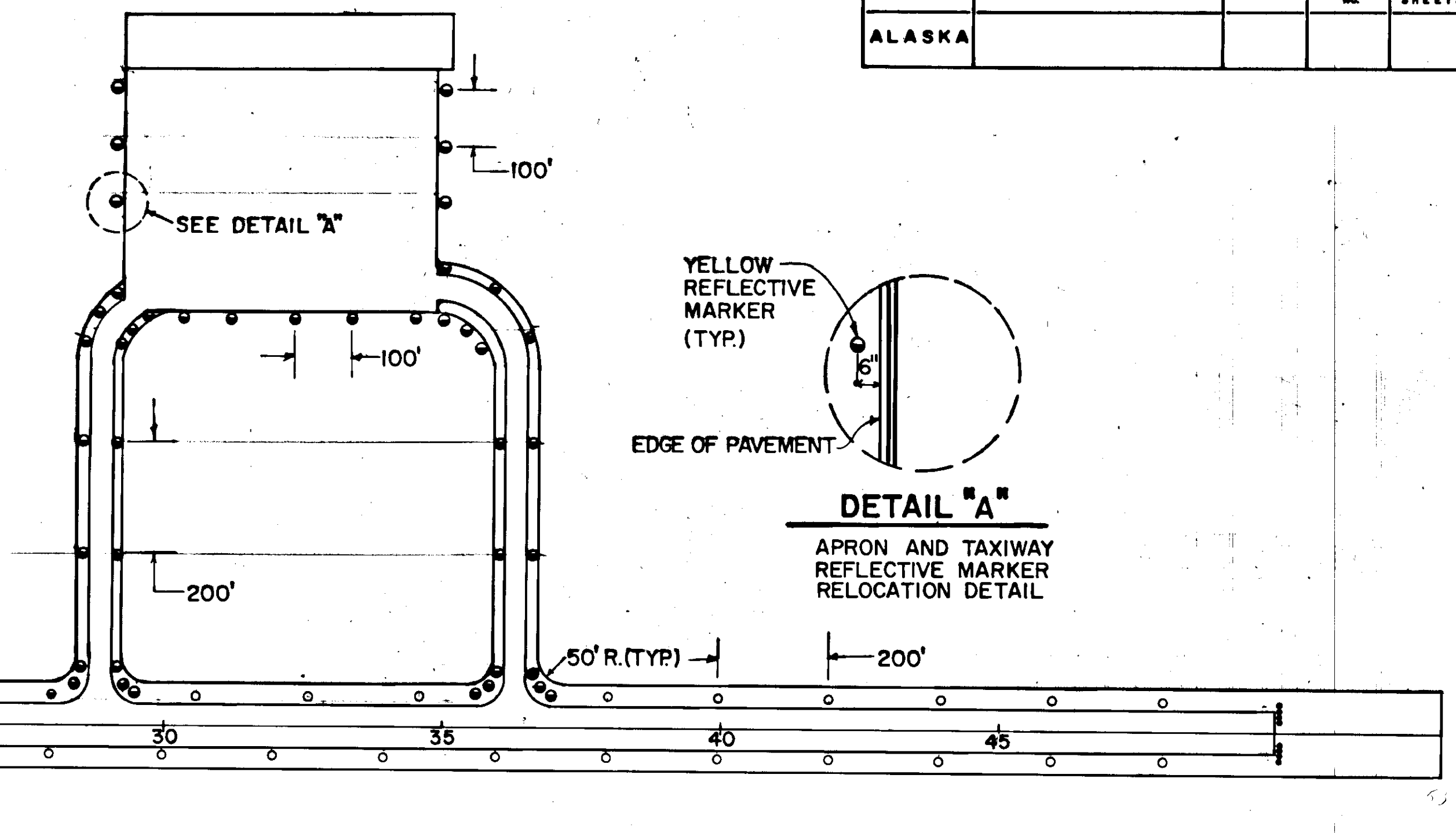
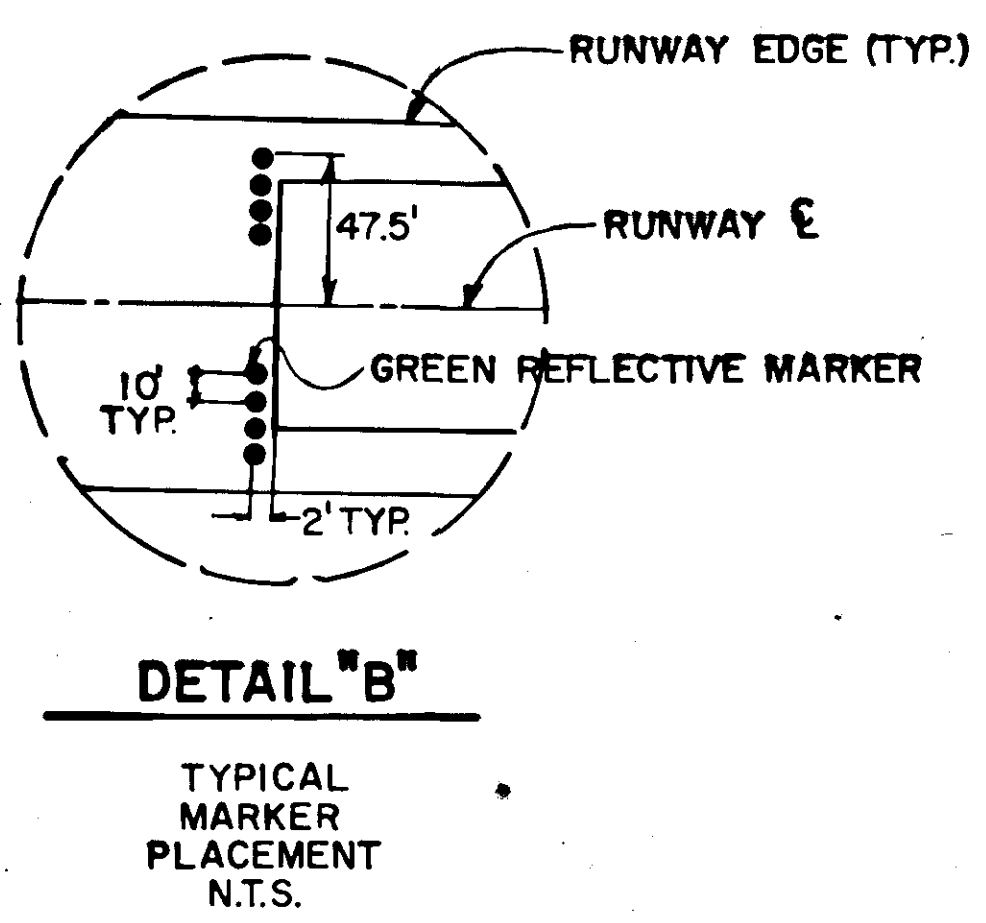
HOONAH AIRPORT
 PROJECT NO. 69267
 A.I.P. NO 3-02-0125-01

MITIGATION DETAILS

APPROVED BY:		ENGINEERING MANAGER	
APPROVED BY:		DESIGN ENGINEER	
BY	DATE	DESIGNED: DTR	DRAWN: WDA
REVISIONS		CHECKED:	DATE:



1. CROSSES SHALL BE YELLOW IN COLOR AND MAY BE CONSTRUCTED OF PLASTIC OR OTHER SUITABLE MATERIAL TO RESIST RAIN, AND PROP WASH DAMAGE. PAINT SHALL NOT BE ALLOWED ON NEW A.C. PAVEMENT.
2. CROSSES SHALL BE PLACED AT EACH END OF, AND IN THE MIDDLE OF THE CLOSED RUNWAY.
3. ALL WORK PERTAINING TO THE FABRICATION PLACEMENT, AND MAINTENANCE OF THE CLOSED RUNWAY MARKERS IS INCIDENTAL TO OTHER ITEMS OF WORK.
4. CONTRACTOR SHALL REMOVE OR COVER RUNWAY REFLECTIVE MARKERS ON CLOSED RUNWAYS. REFLECTIVE MARKERS SHALL BE IN-PLACE PRIOR TO OPENING EACH SECTION OF RUNWAY FOLLOWING PAVING.



- LEGEND —
PAVING SEQUENCE
- ① PAVE SOUTH HALF OF RUNWAY
 - ② PAVE NORTH HALF OF RUNWAY
 - ③ PAVE WEST TAXIWAY
 - ④ PAVE EAST TAXIWAY
 - ⑤ PAVE APRON & TERMINAL AREA
 - ⑥ PAVE ACCESS ROAD

SYMBOL	LOCATION	COLOR	NOTE
○	RUNWAY	WHITE	
●	TAXIWAY	YELLOW	REMOVE FOR PAVING THEN RE-INSTALL
●	THRESHOLD	GREEN	" " " " " "

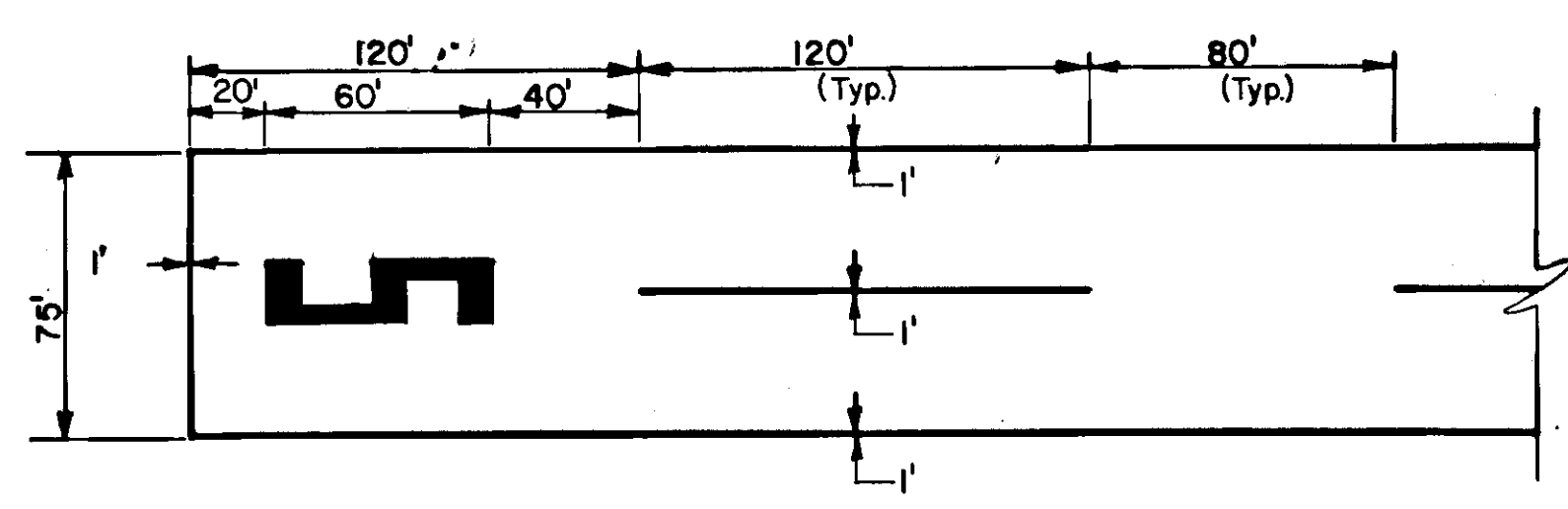


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
S.E. REGION DESIGN & CONSTRUCTION

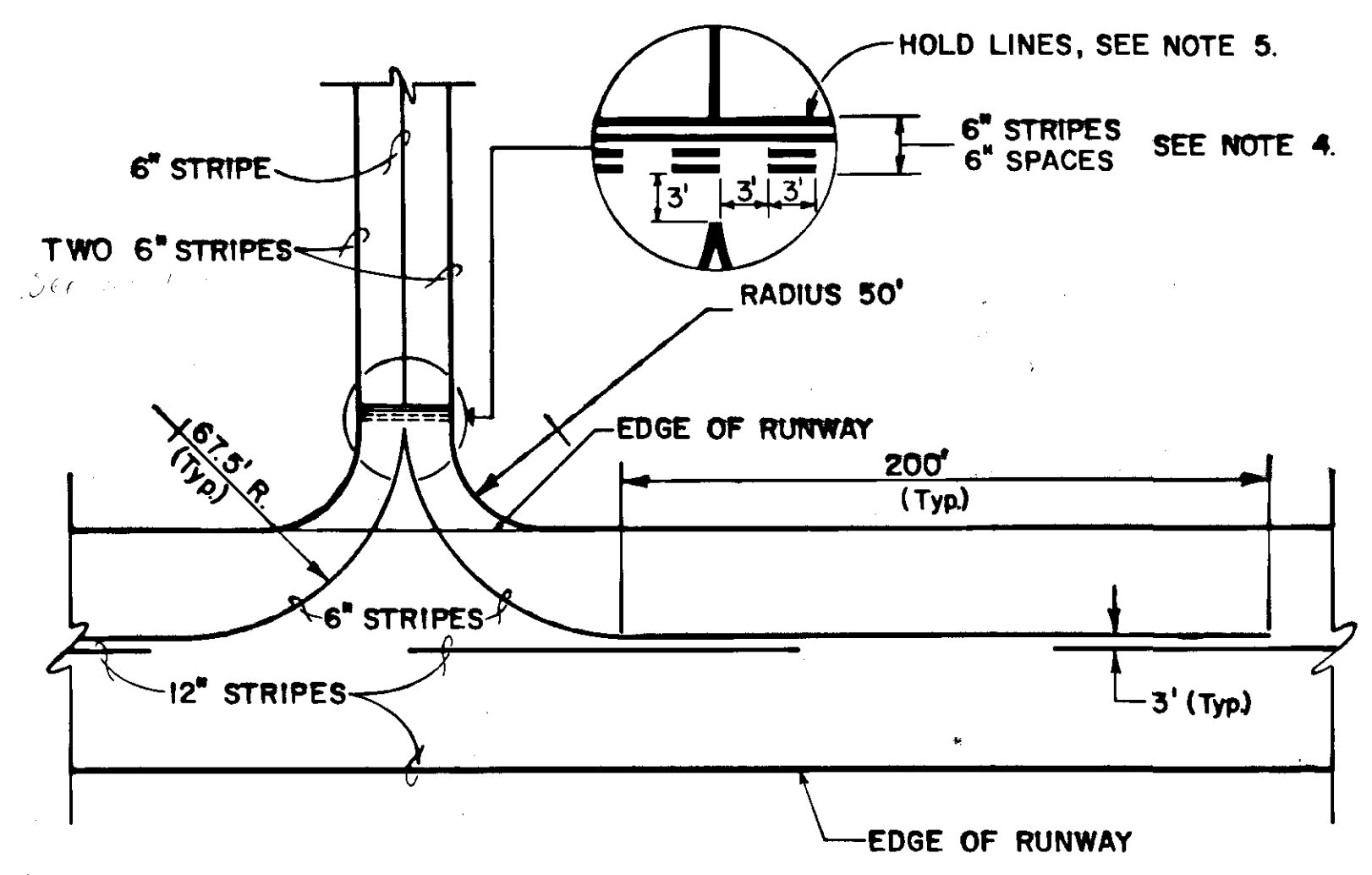
HOONAH AIRPORT
PROJECT NO. 69267
A.I.P. NO. 3-02-0125-01
REFLECTIVE MARKER & PAVING PLAN

APPROVED BY:		ENGINEERING MANAGER	
APPROVED BY:		DESIGN ENGINEER	
BY	DATE	CHANGE	REVISIONS
SCALE:	AS SHOWN	DESIGNED: D.R.	CHECKED:
		DRAWN: W.D.A.	DATE:
			SHEET 17 OF 31

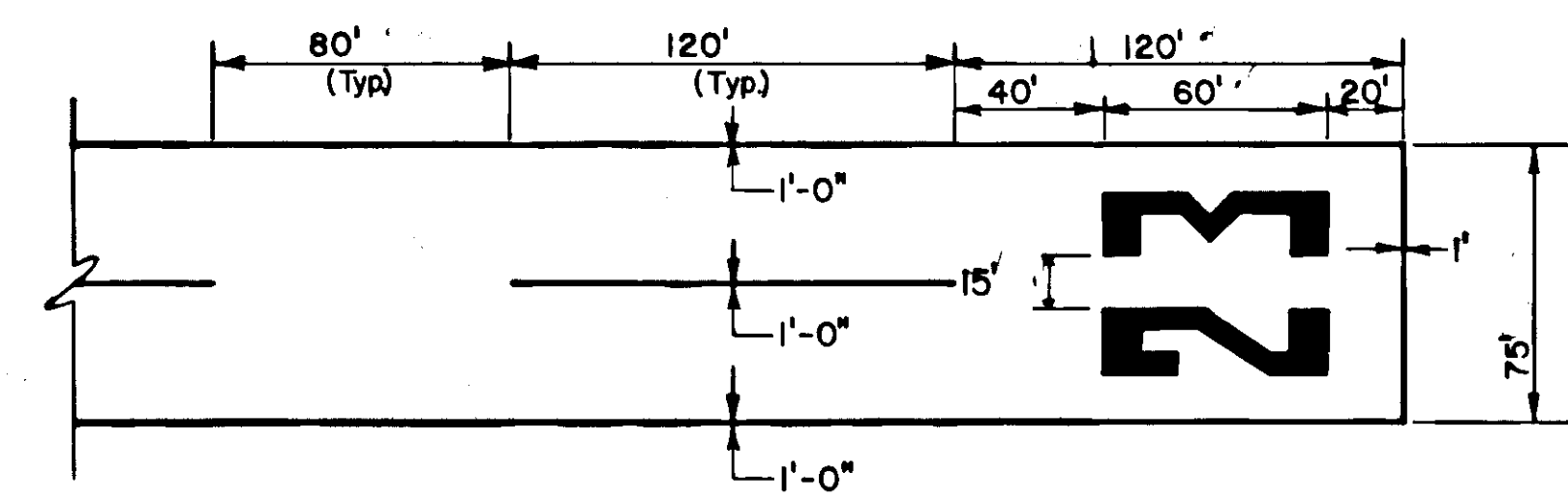
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA				



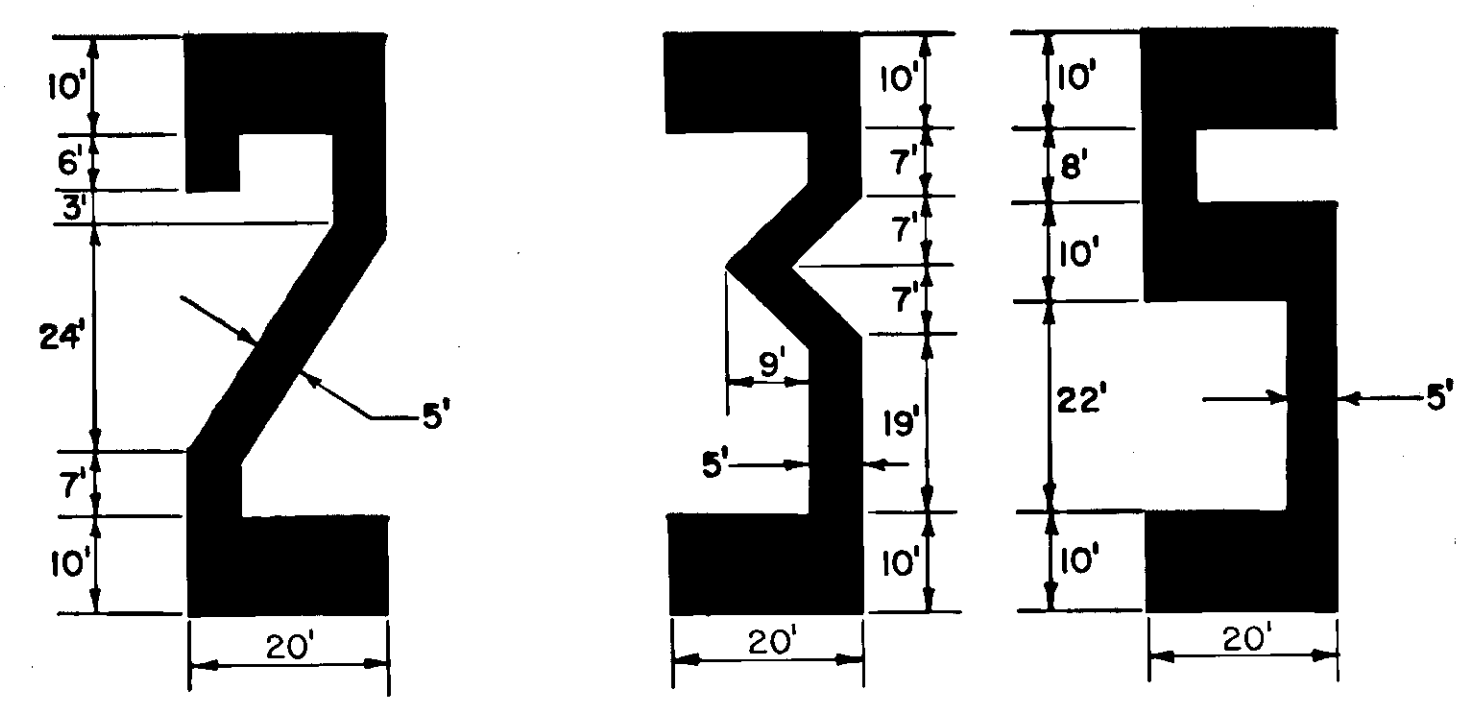
WEST END



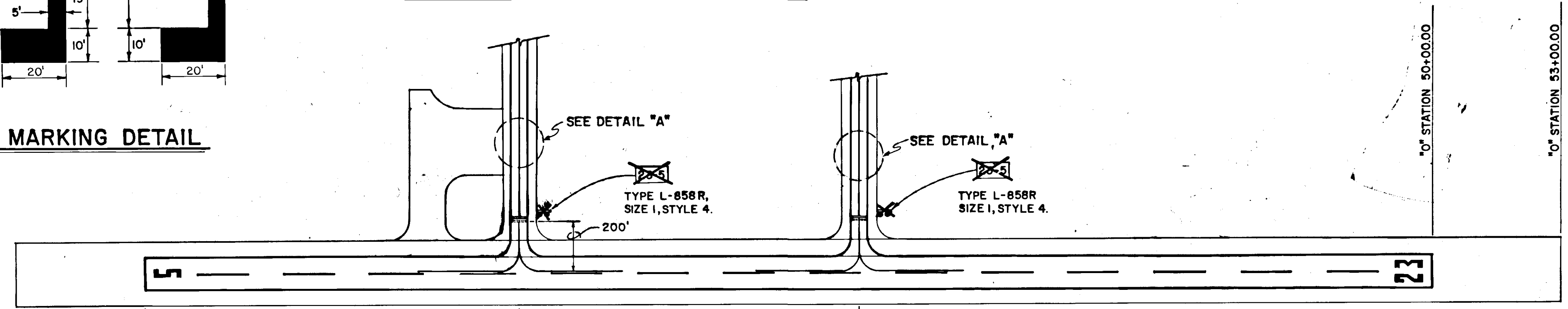
TAXIWAY TYPICAL
RUNWAY/TAXIWAY MARKING PLANS



EAST END

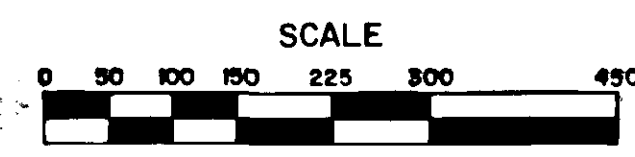


NUMERICAL MARKING DETAIL



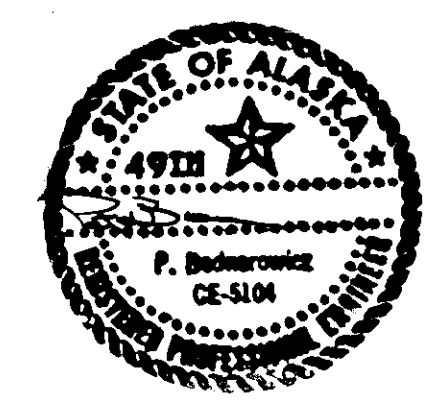
"0" RUNWAY STA. 28+81
"A" TAXIWAY STA. 10+15
"0" RUNWAY STA. 36+31
"B" TAXIWAY STA. 10+15

PROJECT MARKING LAYOUT



GENERAL NOTES:

- ADJUSTMENTS TO THE LENGTH OF THE STRIPES & GAPS WHERE NECESSARY TO ACCOMMODATE THE RUNWAY LENGTH, SHALL BE MADE NEAR THE RUNWAY MIDPOINT.
- RUNWAY SIDE STRIPES CONSIST OF CONTINUOUS STRIPES LOCATED ALONG EACH SIDE OF THE RUNWAY.
- THE COLOR OF MARKINGS USED ON THE RUNWAY SHALL BE WHITE, WHILE THAT USED ON TAXIWAYS IS YELLOW.
- TAXIWAY EDGE MARKINGS CONSIST OF CONTINUOUS DOUBLE LINES WITH THE LINE BEING 6 INCHES IN WIDTH & SPACED 6 INCHES APART AS SHOWN THIS SHEET.
- HOLDING POSITION MARKINGS CONSIST OF SOLID LINES & ARE ALWAYS ON THE SIDE WHERE THE AIRCRAFT IS TO HOLD. HOLD LINES ARE INSTALLED PERPENDICULAR TO THE TAXIWAY CENTERLINE. HOLDING POSITION MARKINGS ARE INSTALLED A MINIMUM OF 200'-0" FROM THE RUNWAY CENTERLINE.
- ALL LETTERS & NUMERALS ARE HORIZONTALLY SPACED 15' APART.



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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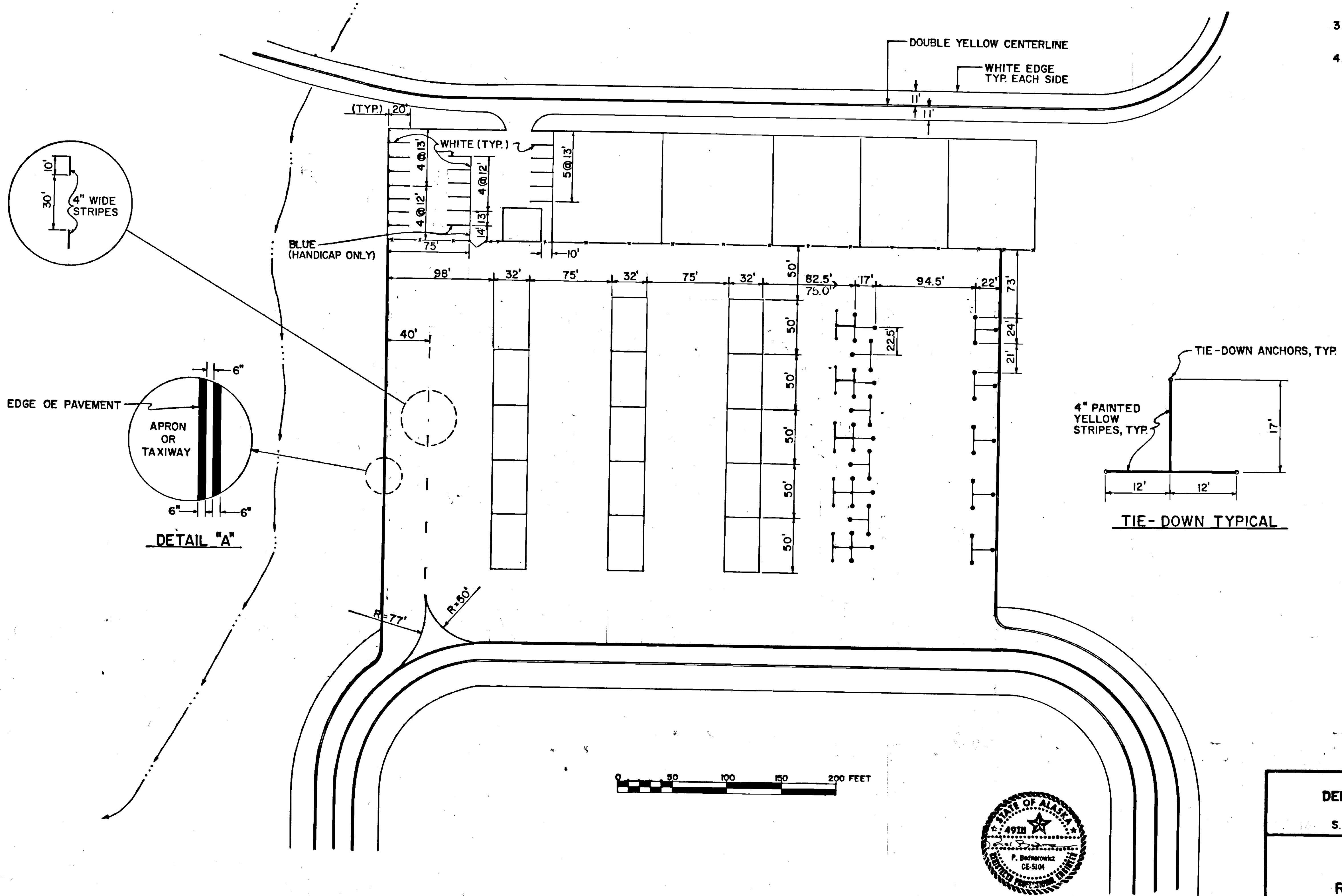
HOONAH AIRPORT
PROJECT NO. 69267
A.I.P. NO. 3-02-0125-01
RUNWAY / TAXIWAY MARKING PLAN

APPROVED BY:		ENGINEERING MANAGER	
APPROVED BY:		DESIGN ENGINEER	
BY	DATE	CHANGE	SCALE: AS NOTED
DESIGNED: DTR		DRAWN: RKB	
CHECKED:		DATE:	
REVISIONS			

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA				

NOTES:

1. ALL LARGE AIR TAXI PARKING SPACES SHALL BE 32' X 50'. NO TIE-DOWNS WILL BE PROVIDED.
2. ALL PARKING AND TIE-DOWN SPACES SHALL BE DELINEATED WITH 4" YELLOW STRIPES.
3. ALL VEHICLE PARKING SHALL BE 4" WHITE. HANDICAP PARKING SHALL BE 4" BLUE.
4. THE ACCESS ROAD STRIPING SHALL CONSIST OF DOUBLE YELLOW CENTERLINE & EDGE STRIPES WITH 11 FT. DRIVING LANES. REFER TO STANDARD DRAWING T-21.01 FOR STRIPING LAYOUTS.

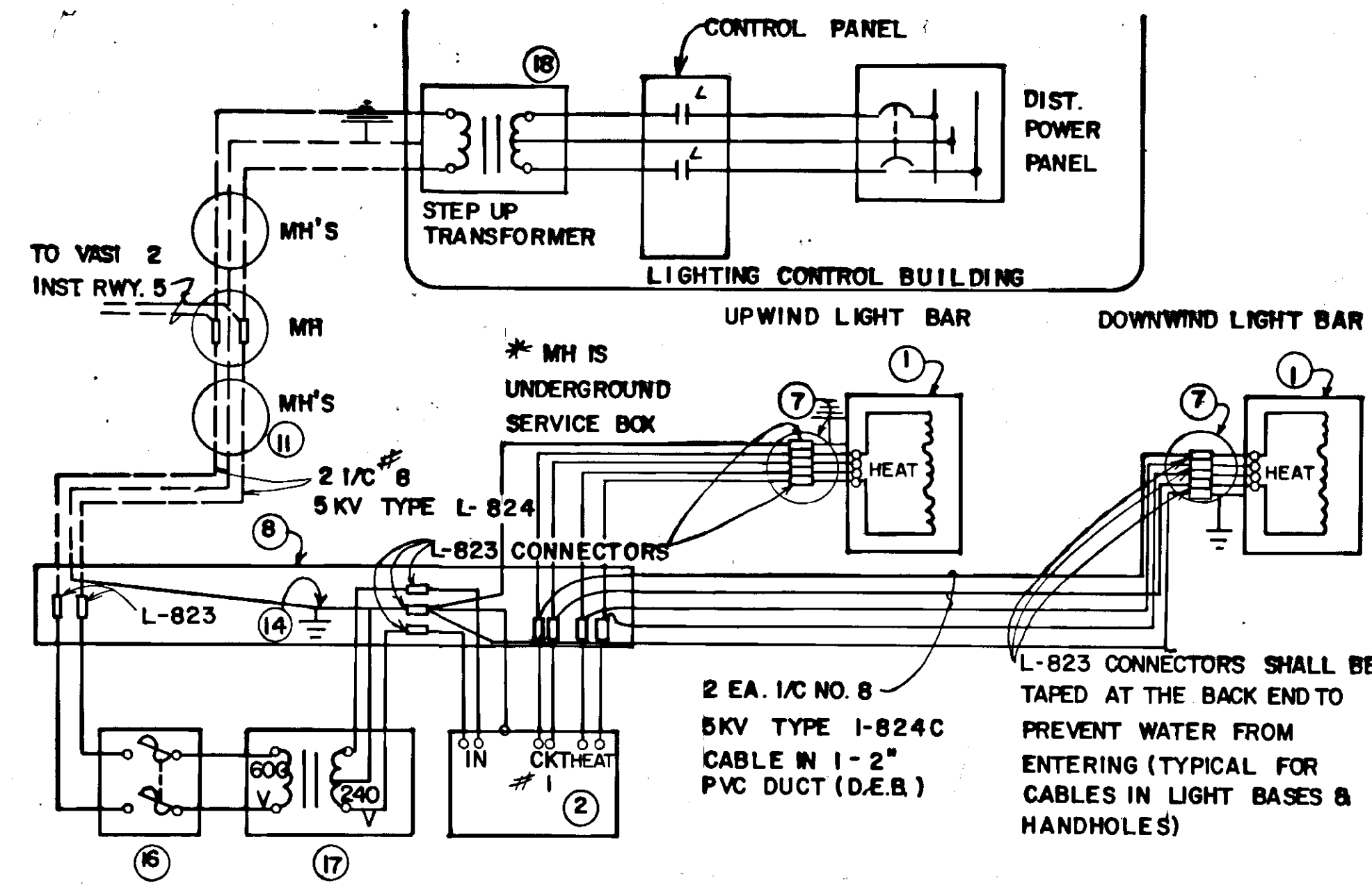
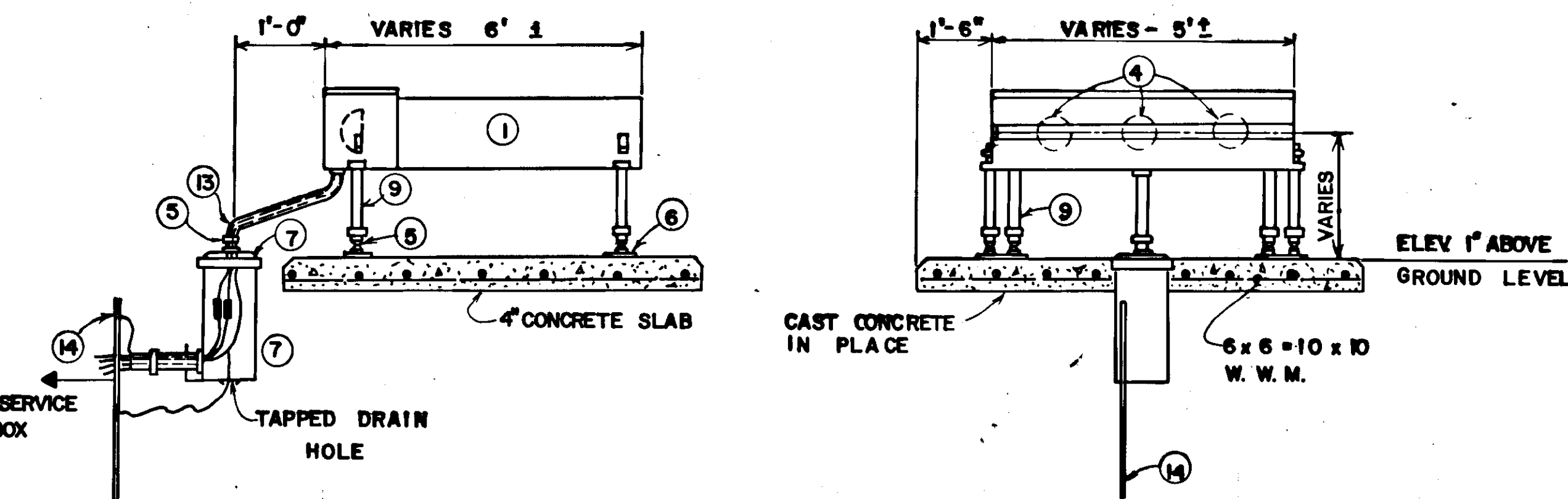


STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 S.E. REGION DESIGN & CONSTRUCTION

Hoonah Airport
 PROJECT NO. 69267
 A.I.P. NO. 3-02-0125-01
 ROAD, APRON & PARKING LOT
 MARKING PLAN

APPROVED BY:	_____	ENGINEERING MANAGER
APPROVED BY:	_____	DESIGN ENGINEER
BY:	DATE:	CHANGE:
REVISIONS		
SCALE:	DESIGNED: P.B.	DRAWN: B.A.
	CHECKED: P.B.	DATE:

SHEET 19 OF 31



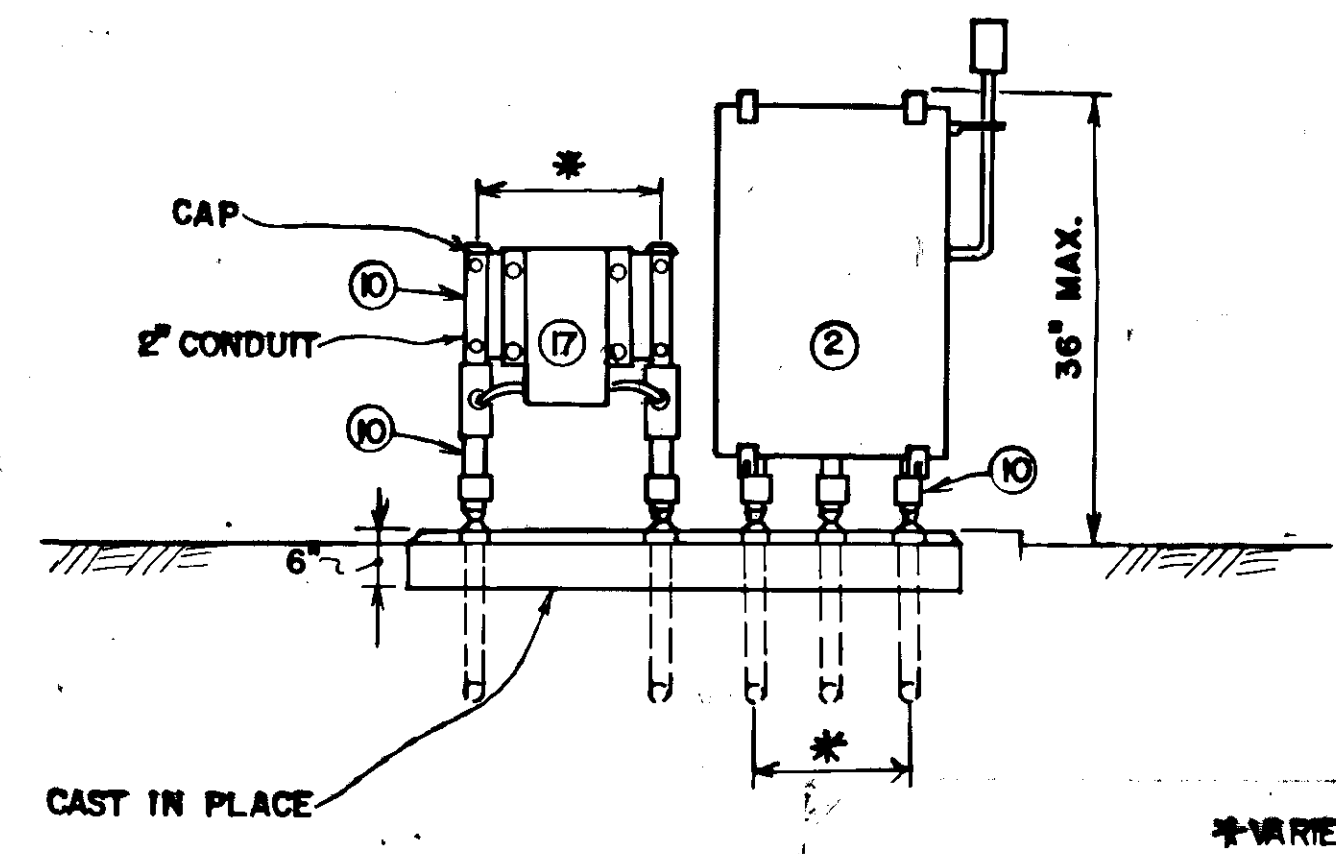
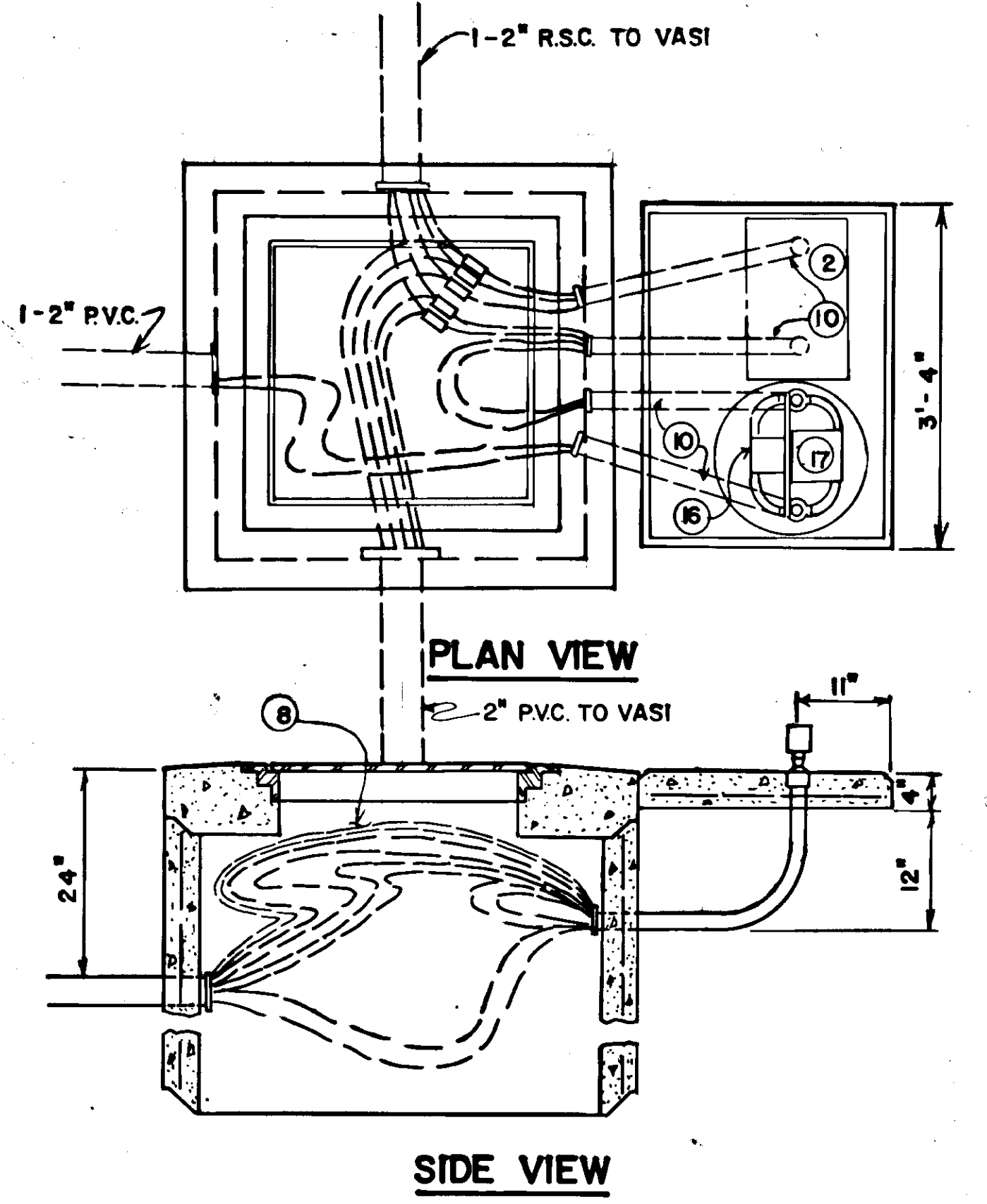
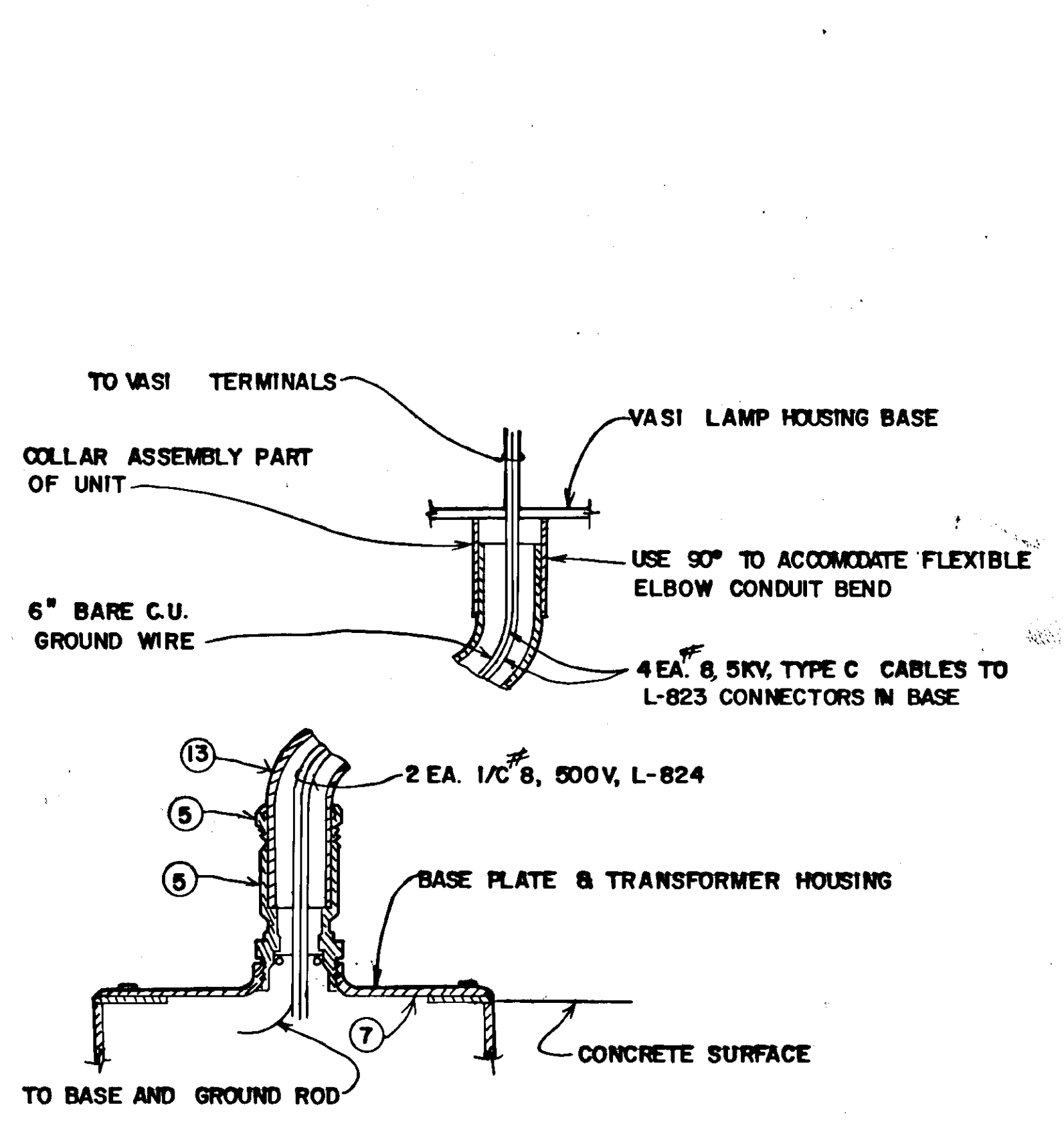
NOTE: RUNWAY 5 VASI WIRING DIAGRAM IDENTICAL ELECTRICALLY WITH RUNWAY 23.

ITEM	QUAN. (existing)	DESCRIPTION
1	(2)	L-851 VISUAL APPROACH SLOPE INDICATOR LAMP HOUSING W/LAMP FAILURE BYPASS RELAYS, TILT SWITCH
2	(2)	L-851 ADAPTOR UNIT, 240 V, AC W/DAY NIGHT INTENSITY CONTROL.
3	NOT SHOWN	L-851 LEVELING DEVICE & CALIBRATION BAR (FOR INSTALLATION & MAINTENANCE, BECOMES PROPERTY OF THE SPONSOR)
4	(12)	VASI INDICATOR LAMPS, PER SPEC. FAA-E-2351 TYPE II, 66 AMPERE 200 WATT.
5	AS REQ'D.	BREAKABLE COUPLING, 2" THREAD, FOR EMT OR LIQUID TIGHT CONDUIT.
6	AS REQ'D.	FLANGE, ALUMINUM
7	AS REQ'D.	L-857 LIGHT BASE, TYPE -1- 12" DIA. WITH BASE PLATE AND GASKET W/ TAPPED DRAIN & PLUG.
8	(1)	24" X 24" X 24" UNDERGROUND SERVICE BOX VASI EQUIPMENT (SEE STD. DWG. L-23.00)
9	LOT	2" EMT CONDUIT
10	LOT	2" RIGID CONDUIT, COUPLINGS & FITTINGS
11	AS REQ'D.	1/2" NO. 8-5KV TYPE L-824 TYPE C CABLES WITH CONNECTORS
12	AS REQ'D. (not shown)	FRANGIBLE COUPLINGS FOR RIGID CONDUIT
13	LOT	2" FLEXIBLE WEATHERPROOF CONDUIT
14	AS REQ'D.	5/8" X 8'-0" GROUND ROD, COPPER WELD OR EQUAL
15	NOT SHOWN	INSTRUCTION BOOKS, DRAWINGS, INSTALLATION DATA BECOMES PROPERTY OF SPONSOR
16	(2)	SAFETY SWITCH, 600V, 30 AMP FUSIBLE, NEMA-3R ENC. 2 POLE EQUIPPED W/ 5 AMP BUSSMAN FRF FUSES.
17	(2)	STEP DOWN TRANSFORMER, 1.5 KVA, 600 V PRI 120/140 V SEC. 60 HZ. 2-5% FCBN TAPS, INDOOR OR OUTDOOR.
18	(1)	STEP UP TRANSFORMER, 5 KVA, 600 V PRI 120/240 V PRI 60 HZ. 2-5% FCBN TAPS, INDOOR OR OUTDOOR.

VASI-2 SIDE ELEVATION

VASI-2 FRONT ELEVATION

TYPICAL VASI-2 ELECTRICAL WIRING



MOUNTING INSTALLATION DETAIL

HANDHOLE FOR MOUNTING VASI EQUIPMENT

ADAPTER UNIT, TRANSFORMER, & SAFETY SWITCH - FRANGIBLE MOUNTING

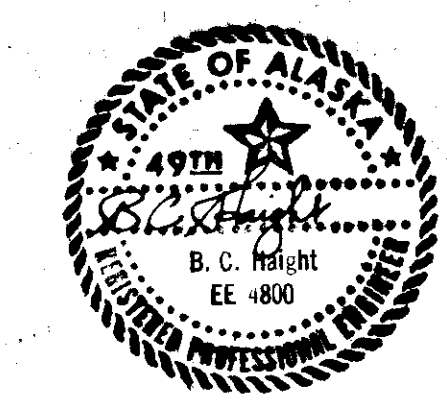
EXISTING VASI'S

L" STATIONS	
19+47	LT.
24+30	LT.
44+83	RT.
49+60	RT.

4 - LIGHT PAPI SYSTEM

VASI SITING DETAILS

RUNWAY	BAR	"0" STATION	OFFSET FROM C	ELEVATION VASI BASE	ELEVATION VASI LIGHT	AIMING ANGLE
23	UPWIND	37+85	87.5'	20.4'	24.5'	3.0°
23	DOWNWIND	44+85	87.5'	20.4'	24.5'	3.33°
5	DOWNWIND	25+00	87.5'	20.4'	24.5'	3.5°
5	UPWIND	32+00	87.5'	20.4'	24.5'	3.5°

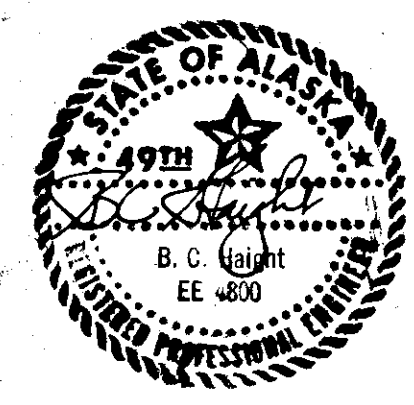
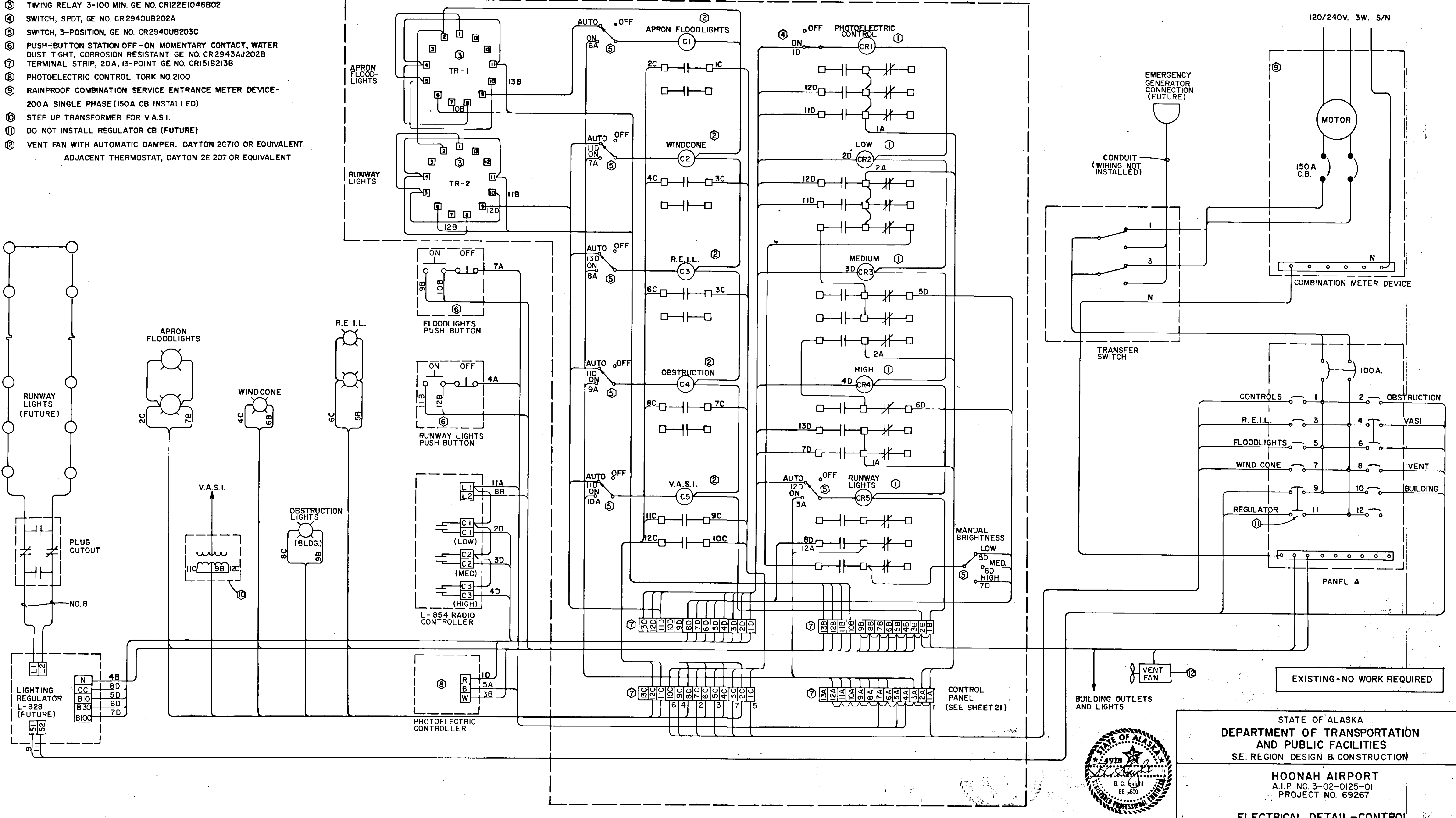


STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 S.E. REGION DESIGN & CONSTRUCTION

HOONAH AIRPORT
 A.I.P. NO. 3-02-0125-01
 PROJECT NO. 69267
LIGHTING DETAILS - V.A.S.I.

APPROVED BY:		ENGINEERING MANAGER	
APPROVED BY:		DESIGN ENGINEER	
BY	DATE	SCALE:	SHEET 22 OF 31
REVISIONS		DESIGNED:	DRAWN:
		CHECKED:	DATE:

- ① CONTROL RELAY, 3PDT, GE NO. CR120HC47W02
- ② CONTACTOR, GE NO. CR205K002ADA
- ③ TIMING RELAY 3-100 MIN. GE NO. CR122E1046B02
- ④ SWITCH, SPDT, GE NO. CR2940UB202A
- ⑤ SWITCH, 3-POSITION, GE NO. CR2940UB203C
- ⑥ PUSH-BUTTON STATION OFF-ON MOMENTARY CONTACT, WATER DUST TIGHT, CORROSION RESISTANT GE NO. CR2943AJ202B
- ⑦ TERMINAL STRIP, 20A, 13-POINT GE NO. CR151B213B
- ⑧ PHOTOELECTRIC CONTROL TORK NO.2100
- ⑨ RAINPROOF COMBINATION SERVICE ENTRANCE METER DEVICE-200A SINGLE PHASE (150A CB INSTALLED)
- ⑩ STEP UP TRANSFORMER FOR V.A.S.I.
- ⑪ DO NOT INSTALL REGULATOR CB (FUTURE)
- ⑫ VENT FAN WITH AUTOMATIC DAMPER. DAYTON 2C710 OR EQUIVALENT. ADJACENT THERMOSTAT, DAYTON 2E 207 OR EQUIVALENT

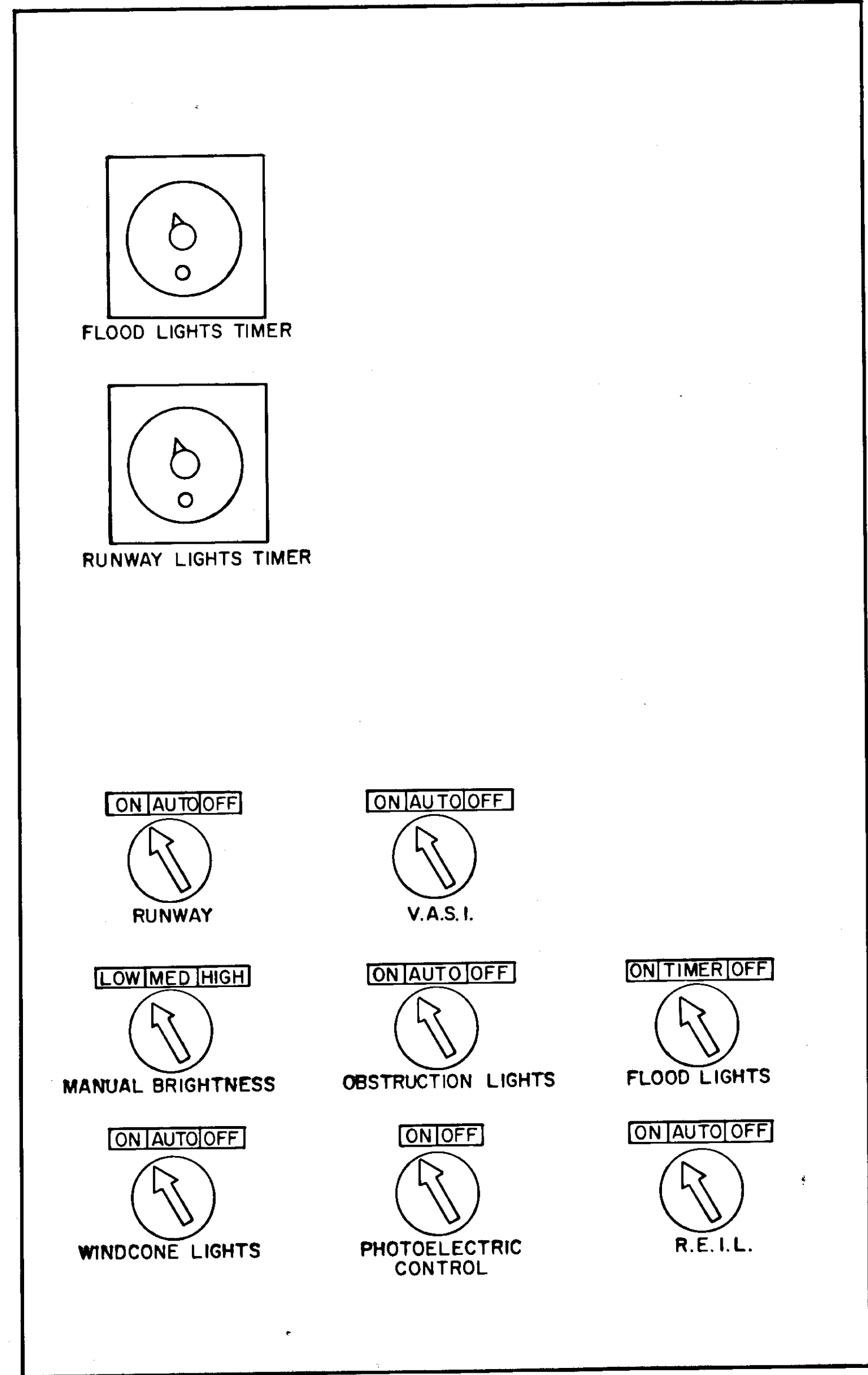


STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 S.E. REGION DESIGN & CONSTRUCTION

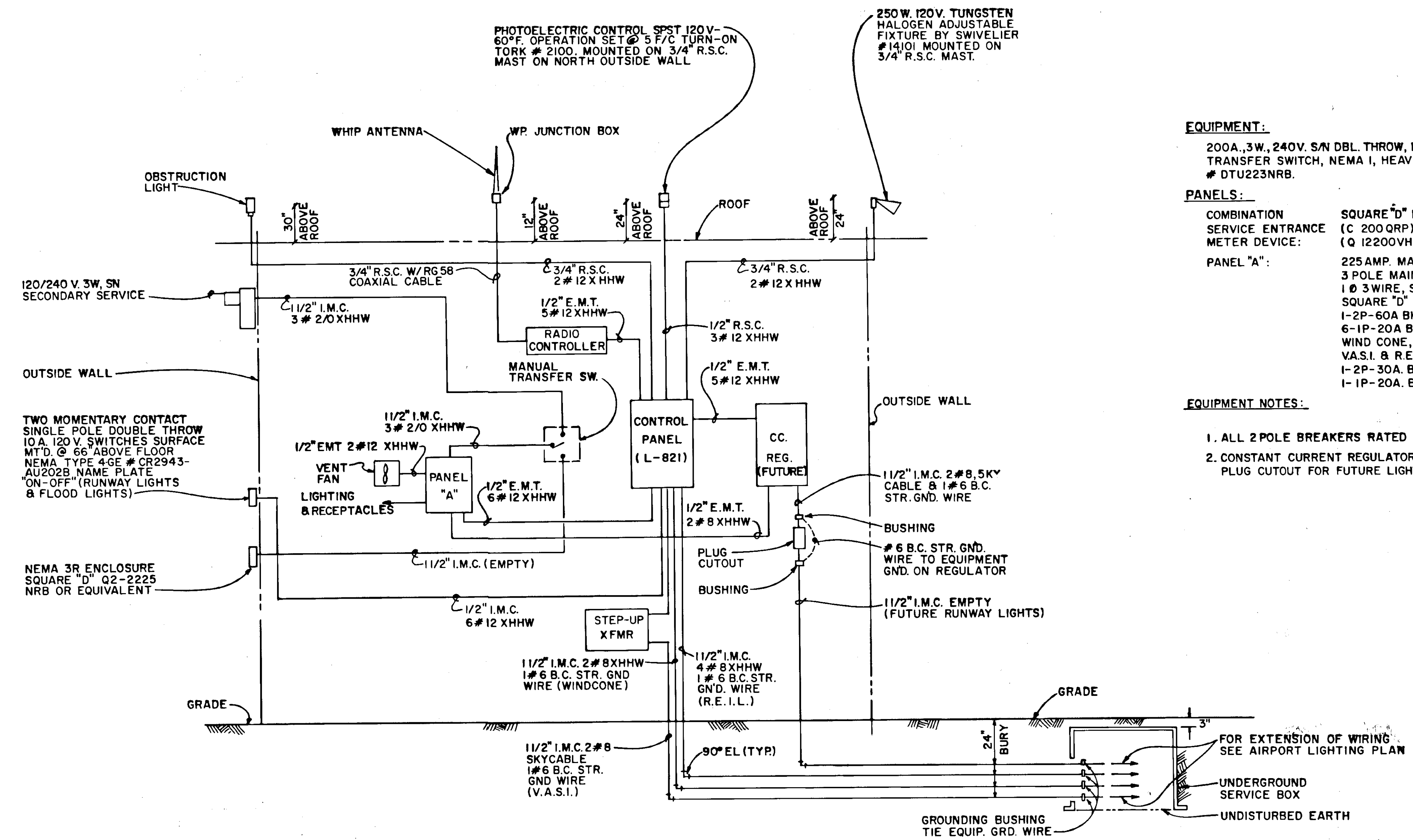
HOONAH AIRPORT
 A.I.P. NO. 3-02-0125-01
 PROJECT NO. 69267

ELECTRICAL DETAIL-CONTROL

APPROVED BY:		ENGINEERING MANAGER	
APPROVED BY:		DESIGN ENGINEER	
BY	DATE	CHANGE	SCALE: AS SHOWN
REVISIONS		DESIGNED:	DRAWN: W.D.A.
		CHECKED:	DATE:

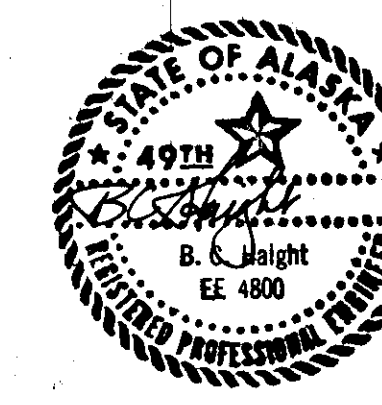


EXISTING CONTROL PANEL
N.T.S.



**EXISTING POWER ONE-LINE
DIAGRAM FOR REGULATOR &
CONTROL**
N.T.S.

- EQUIPMENT:**
200A., 3W., 240V. S/N DBL. THROW, NON-FUSIBLE, MANUAL TRANSFER SWITCH, NEMA 1, HEAVY DUTY SQUARE "D" # DTU223NRB.
- PANELS:**
COMBINATION SQUARE "D" METER PANEL SERVICE ENTRANCE (C 200 QRP) WITH 200A. CB METER DEVICE: (Q 12200VH) OR EQUAL.
PANEL "A": 225 AMP. MAINS WITH 150 A. 3 POLE MAIN BKR. 120/240V., 1 Ø 3 WIRE, SURFACE MT'D., SQUARE "D" TYPE NQOB. 1-2P-60A BKR (4 KW C.C. REGULATOR) 6-1P-20A BKR (CONTROL, FLOOD LIGHTS, WIND CONE, BEACON LIGHTS, RECEPT'S, V.A.S.I. & R.E.I.L.). 1-2P-30A. BKR.(V.A.S.I.). 1-1P-20A. BKR'S.(SPARES).
- EQUIPMENT NOTES:**
1. ALL 2 POLE BREAKERS RATED 10,000 A.I.C.
2. CONSTANT CURRENT REGULATOR IS 4.0 KW. PLUG CUTOFF FOR FUTURE LIGHTS.



STATE OF ALASKA
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S.E. REGION DESIGN & CONSTRUCTION

HOONAH AIRPORT
A.I.P. NO. 3-02-0125-01
PROJECT NO. 69267

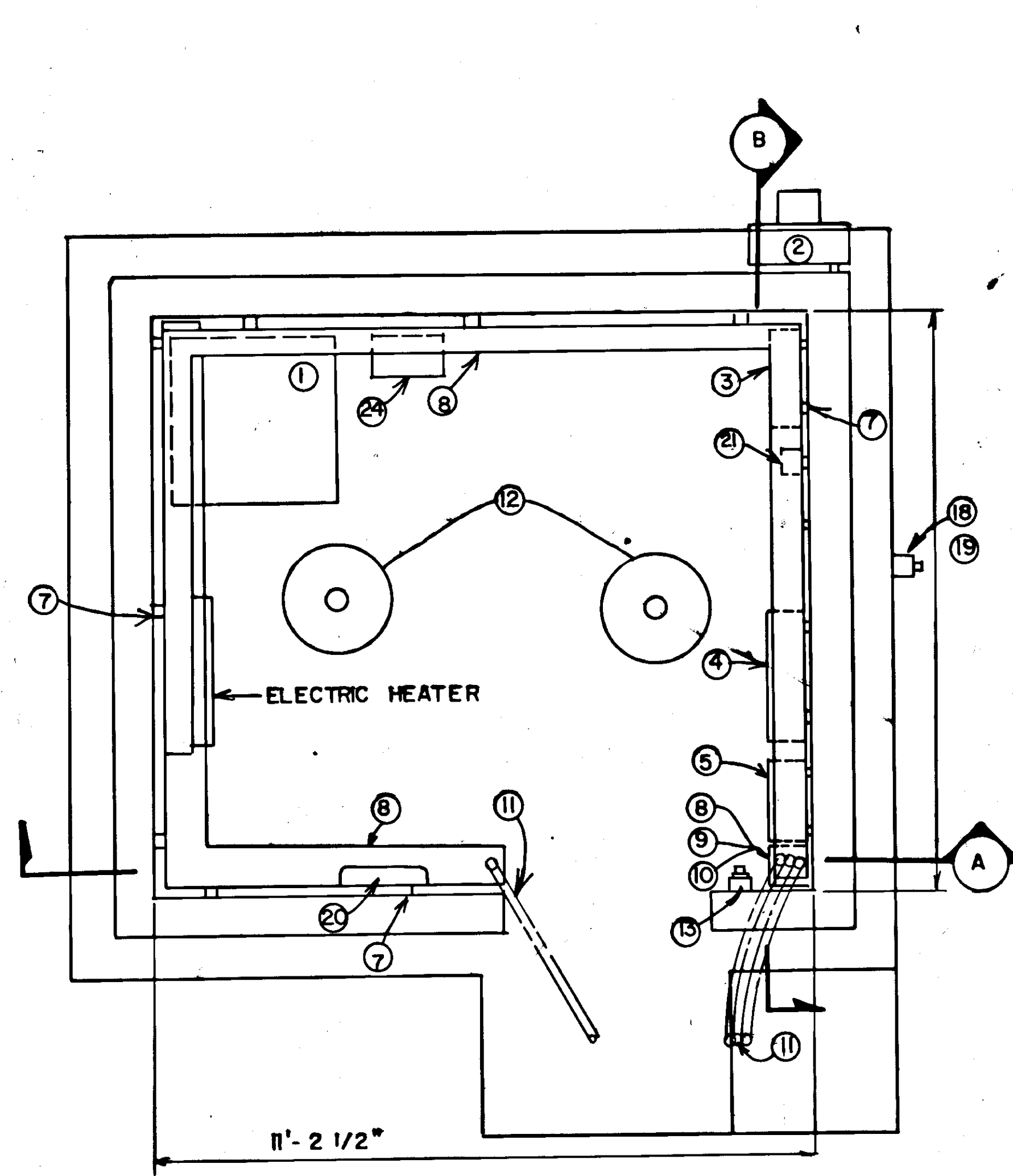
ELECTRICAL DETAIL-CONTROL

APPROVED BY:		ENGINEERING MANAGER	
APPROVED BY:		DESIGN ENGINEER	
BY	DATE	CHANGE	SCALE: AS SHOWN
		REVISIONS	DESIGNED: DRAWN: W.D.A. CHECKED: DATE:

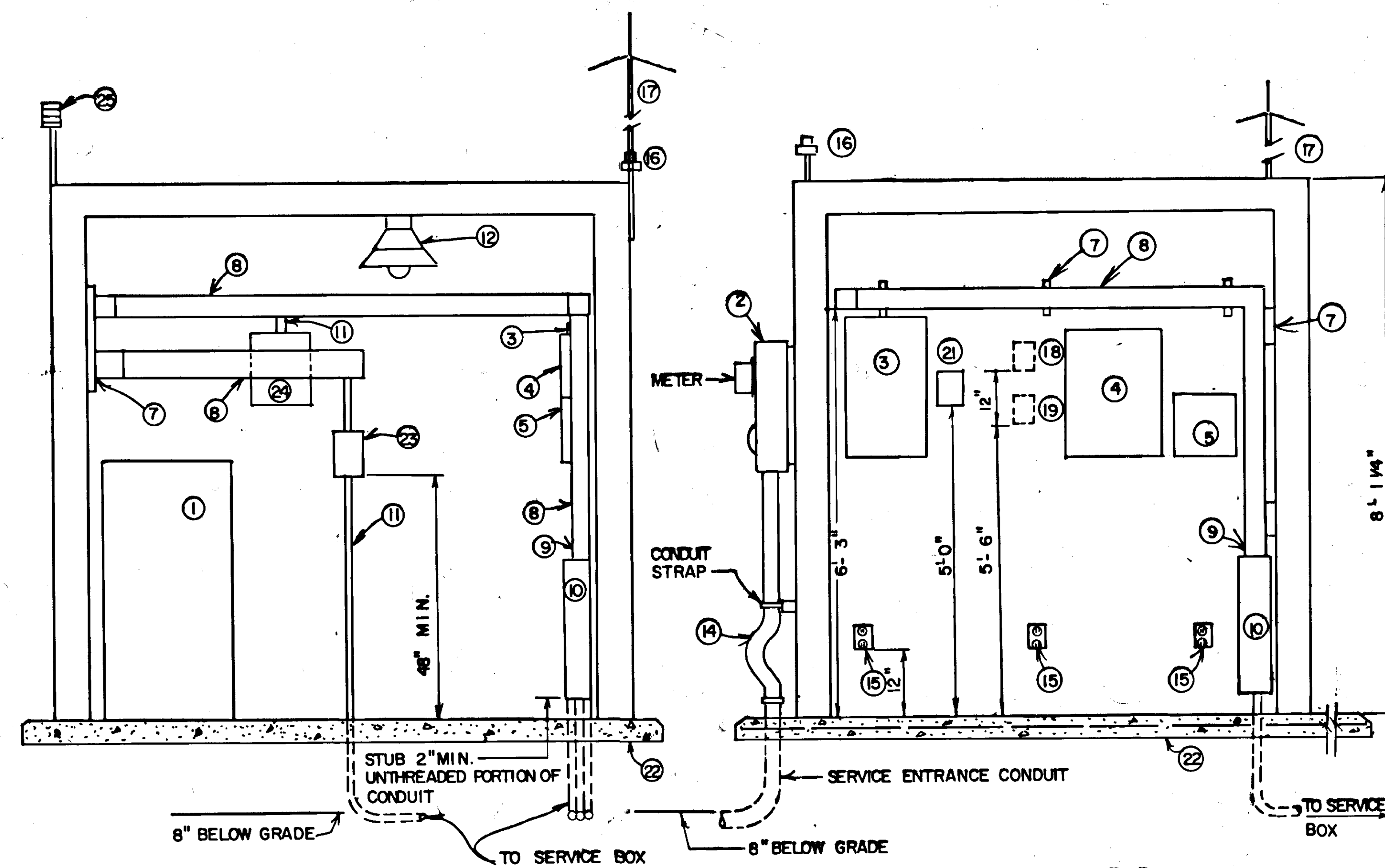
EXISTING ENCLOSURE EQUIPMENT LIST

- ① RUNWAY LIGHTING CONSTANT CURRENT REGULATOR.
- ② COMBINATION SERVICE ENTRANCE METER BASE
- ③ LIGHTING DISTRIBUTION POWER PANEL (PANEL A)
- ④ AIRPORT LIGHTING CONTROL PANEL
- ⑤ AIRPORT LIGHTING RADIO CONTROL UNIT
- ⑥ LIQUDTIGHT FLEXIBLE METAL CONDUIT (TYP) 3/4"
- ⑦ UNISTRUT (OR EQUAL) CHANNEL, P-3000 (TYP.)
- ⑧ WIREWAY WITH HINGED COVER, 4"X 4"
- ⑨ WIREWAY REDUCER, 4"X 4" TO 6"X 6"
- ⑩ WIREWAY TRANSITION, 6"X 6"
- ⑪ 1 1/2" I. M. C.
- ⑫ VAPORTIGHT LIGHT FIXTURE WITH SHALLOW DOME
- ⑬ BUILDING LIGHT SWITCH, SINGLE POLE
- ⑭ LIQUDTIGHT FLEXIBLE METAL CONDUIT (TYP) 2"
- ⑮ DUPLEX RECEPTACLE, NEMA 5-20R, 120 VAC, 20A
- ⑯ PHOTOCCELL SWITCH FOR LIGHTING CONTROL
- ⑰ RADIO CONTROL LIGHTING RECEIVING ANTENNA
- ⑱ EXTERNAL PUSH BUTTON FOR CONTROL OF RUNWAY LIGHTS
- ⑲ EXTERNAL PUSHBUTTON FOR CONTROL OF APRON FLOODLIGHTS
- ⑳ 12" EXHAUST FAN
- ㉑ EXHAUST FAN THERMOSTAT
- ㉒ CONCRETE SLAB
- ㉓ PLUG CUTOUT
- ㉔ STEP UP TRANSFORMER FOR VASI
- ㉕ OBSTRUCTION LIGHT

EXISTING - NO WORK REQUIRED

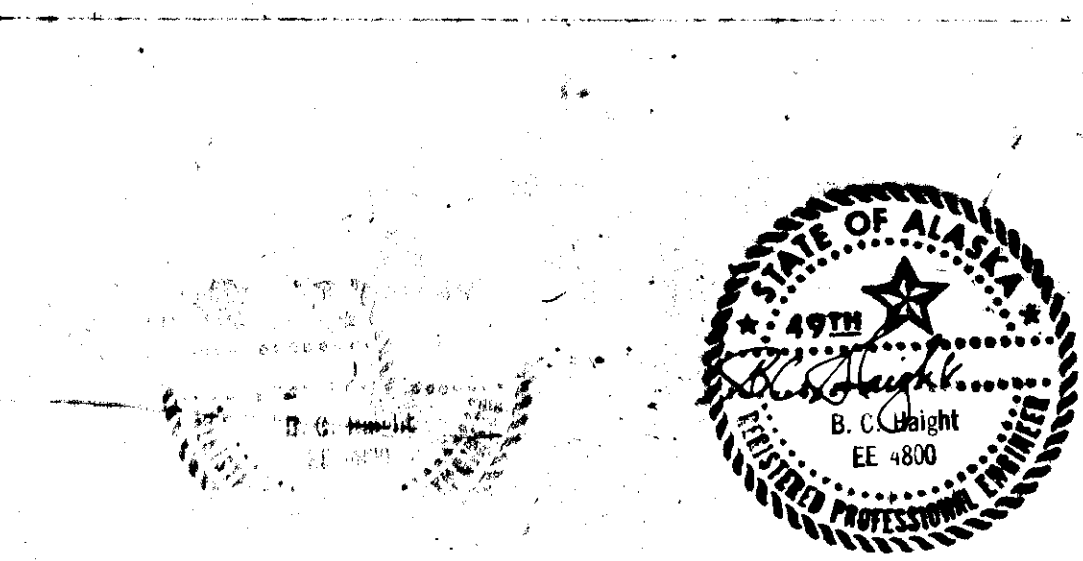


PLAN



SECTION "A"
EXISTING ENCLOSURE DETAIL
NO SCALE

SECTION "B"



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SE REGION DESIGN & CONSTRUCTION

HOONAH AIRPORT
 A.I.P. NO. 3-02-0125-01
 PROJECT NO. 69267
EXISTING EQUIPMENT SHELTER

APPROVED BY:			ENGINEERING MANAGER		
APPROVED BY:			DESIGN ENGINEER		
BY	DATE	CHANGE	SCALE:	DESIGNED:	DRAWN:
REVISIONS			CHECKED:	DATE:	SHEET 25 OF 31

SIGN SUMMARY

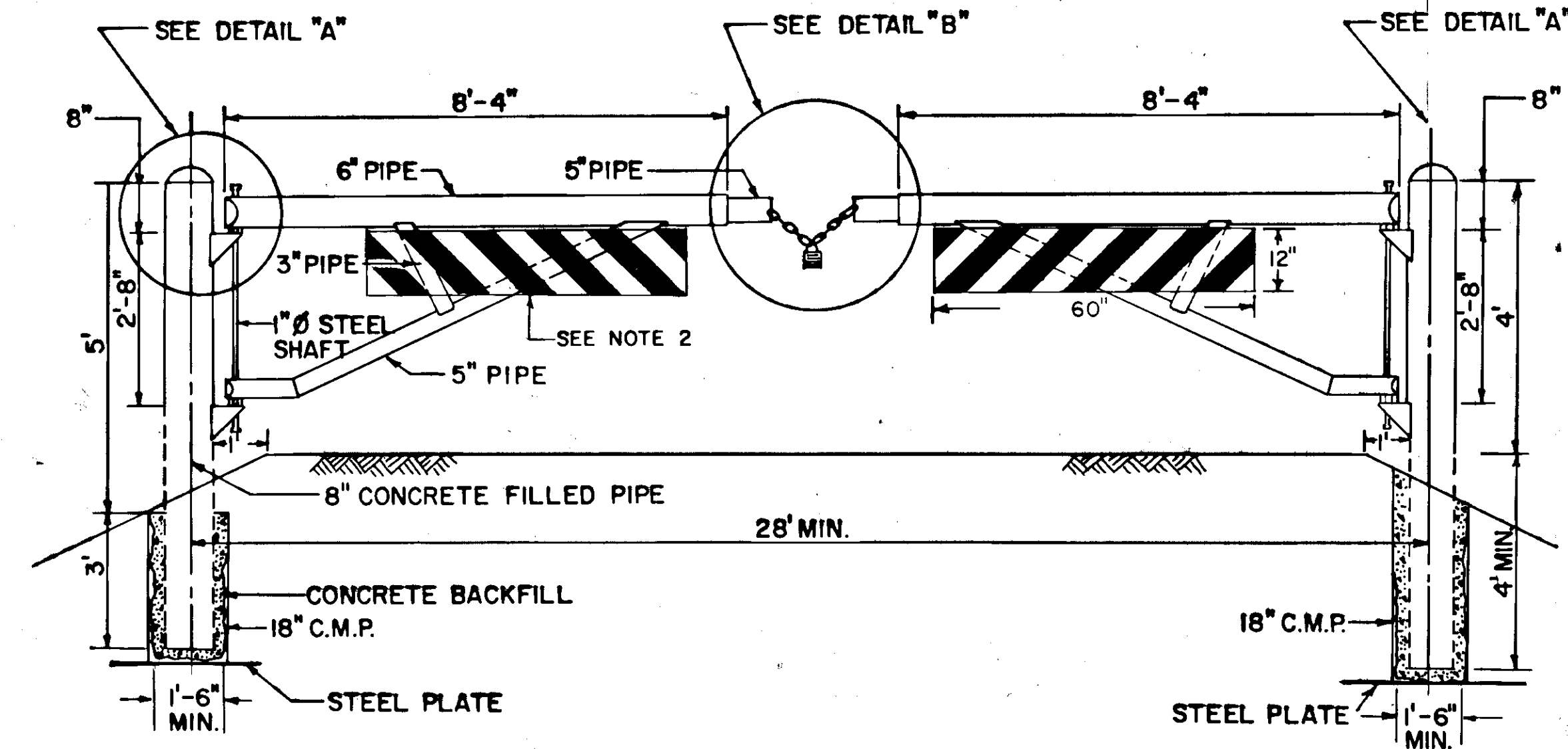
STATION	OFFSET		CODE NO.	LEGEND	SIZE	AREA S.F.	NO. POSTS	FACING TRAFFIC	REMARKS
	LT.	RT.							
"P" 15+33		20'	W14-2B	END ROAD 600 FT.	30" X 30"	6.25	1	S.B.	
"P" 15+48	20'		R1-1	STOP	30" X 30"	6.25	1	N.B.	
"OL" 20+66	30'		R1-1	STOP	30" X 30"	6.25	1	N.B.	
"A" 11+40	42'		L-858R	23=5	18" X 48"	6.00	1	S.B.	
"B" 11+40	42'		L-858R	23=5	18" X 48"	6.00	1	S.B.	
"PA" 28+75	℄		N/A	NOTICE AIRPORT PROPERTY NO TRESPASSING	24" X 8"	1.33	1	W.	
"PA" 29+25	2035		N/A	NOTICE AIRPORT PROPERTY NO TRESPASSING	24" X 8"	1.33	0	N.	ATTACH TO FENCE
"PA" 29+79	2035		N/A	RESTRICTED AREA AUTH. PERSON ONLY	48" X 24"	8.00	0	N.	" " "
"PA" 29+97	2035		N/A	RESTRICTED AREA AUTH. VEHICLES ONLY	48" X 24"	8.00	0	N.	" " "
"PA" 31+50	2035		N/A	NOTICE AIRPORT PROPERTY NO TRESPASSING	24" X 8"	1.33	0	N.	" " "
"PA" 33+50	2035		N/A	" " " "	24" X 8"	1.33	0	N.	" " "
"PA" 34+95	2035		N/A	" " " "	24" X 8"	1.33	0	N.	" " "
"PA" 37+25	2035		N/A	" " " "	24" X 8"	1.33	1	N.	" " "

MONUMENT SUMMARY

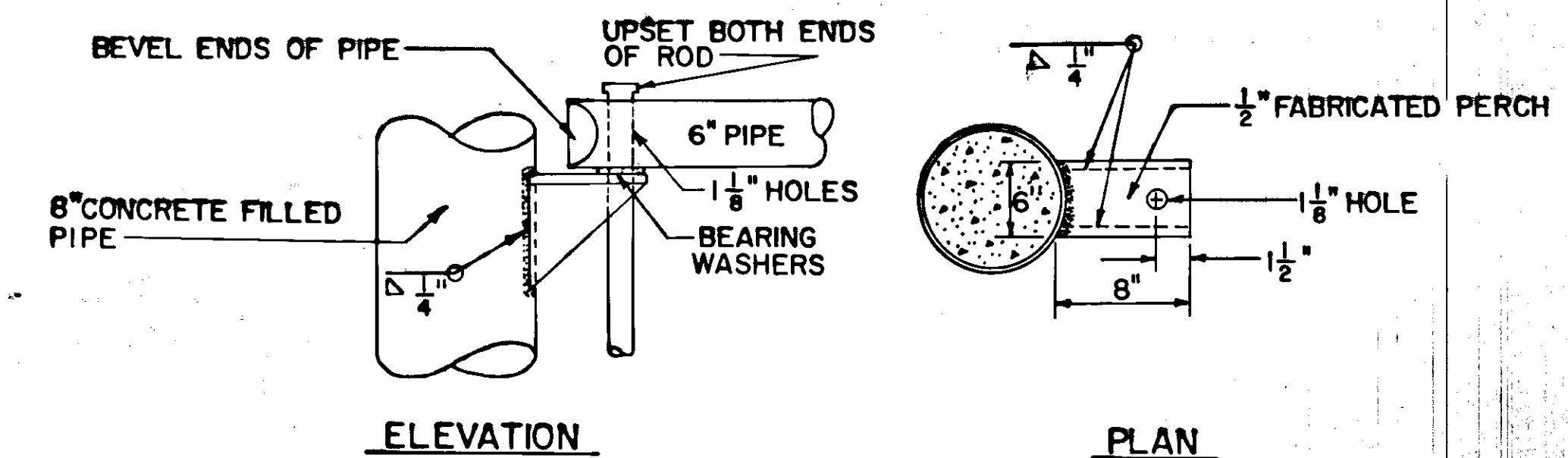
STATION	OFFSET		MON.	CASE	REMARKS
	LT.	RT.			
"OL" 12+99.42 P.O.T.	℄		X	X	IN ACCESS ROAD
"OL" 17+79.34 P.C.	℄		X	X	IN ACCESS ROAD
"O" 17+11.61	℄		X	X	END OF RUNWAY
"O" 52+88.39	℄		X	X	END OF RUNWAY
"O" 35+05 ±	757' ±		X		M.C. 4, U.S.S. 2595 (REPLACE)
"O" 28+41 ±	810' ±		X		S.E. COR. THOMSEN PROP @ APRON
"O" 28+41 ±	1140' ±		X		N.E. COR. THOMSEN PROP @ APRON

CULVERT SUMMARY

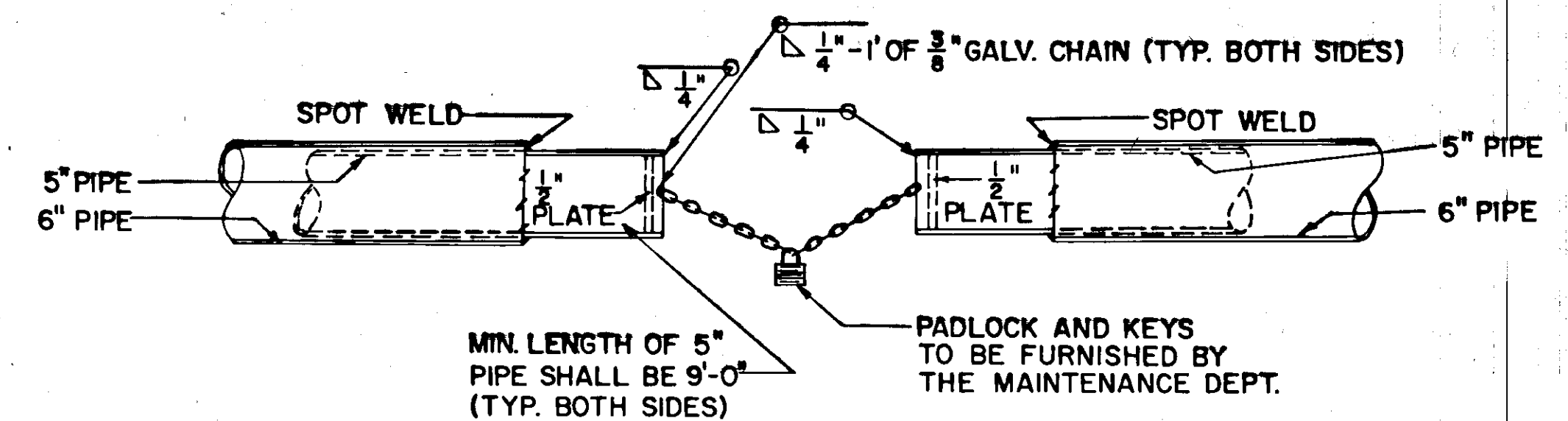
STATION	SIZE	LENGTH	INLET ELEV.	OUTLET ELEV.	REMARKS
"OL" 11+31	21'-2" X 8'-10"	54'			OPEN BOTTOM BOX
"OL" 13+46	18"	46'	34.5 ±	34.2 ±	DRIVEWAY - RIGHT
"A" 14+15	96"	120'	12.2'	12.0'	BURY INVERT 1'
"B" 16+50	96"	132'	14.2'	14.0'	BURY INVERT 1'
"A" 11+50	24"	112'	12.0'	11.0'	POTHOLE DRAIN



SECURITY GATE DETAIL



DETAIL "A"



DETAIL "B"

SECURITY GATE NOTES

- PRIOR TO ERECTING THE GATE, IT SHALL BE PAINTED WITH ONE COAT OF ZINC CHROMATE PRIMER, AND ONE COAT OF INTERNATIONAL ORANGE PAINT.
- SEE STANDARD DRAWING C-01.03 AND S-20.00 FOR BARRICADE PANEL DETAILS AND PANEL MOUNTING DETAILS, RESPECTIVELY.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
S.E. REGION DESIGN & CONSTRUCTION

HOONAH AIRPORT
PROJECT NO. 69267
A.I.P. NO. 3-02-0125-01
SUMMARIES & DETAILS

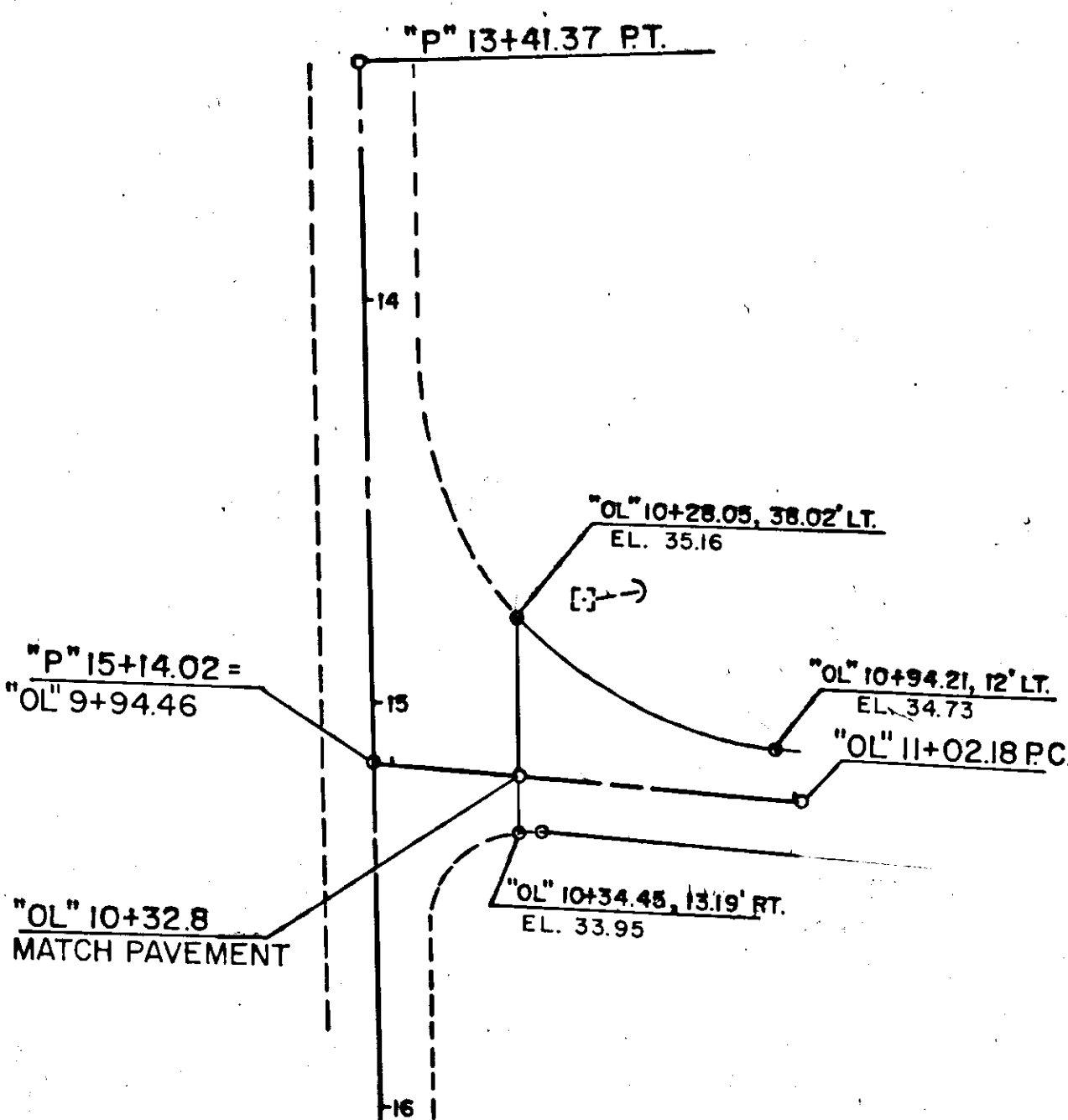
APPROVED BY: _____
ENGINEERING MANAGER

APPROVED BY: _____
DESIGN ENGINEER

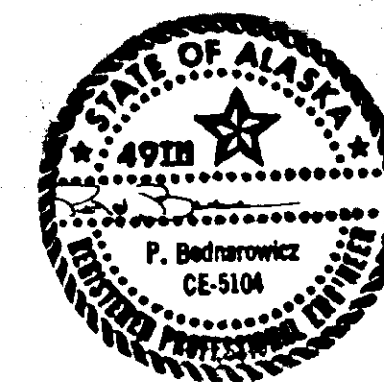
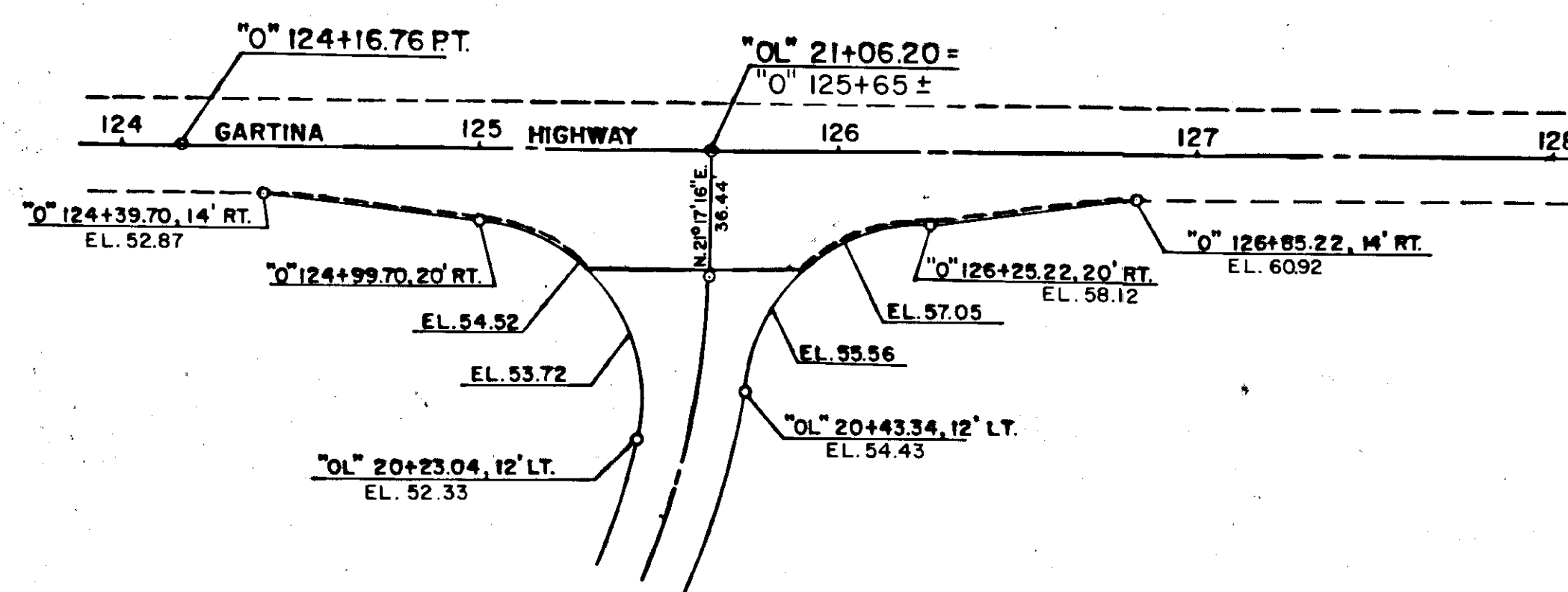
SCALE: _____
DESIGNED: W.D.A.
CHECKED: _____
DATE: _____

BY	DATE	CHANGE

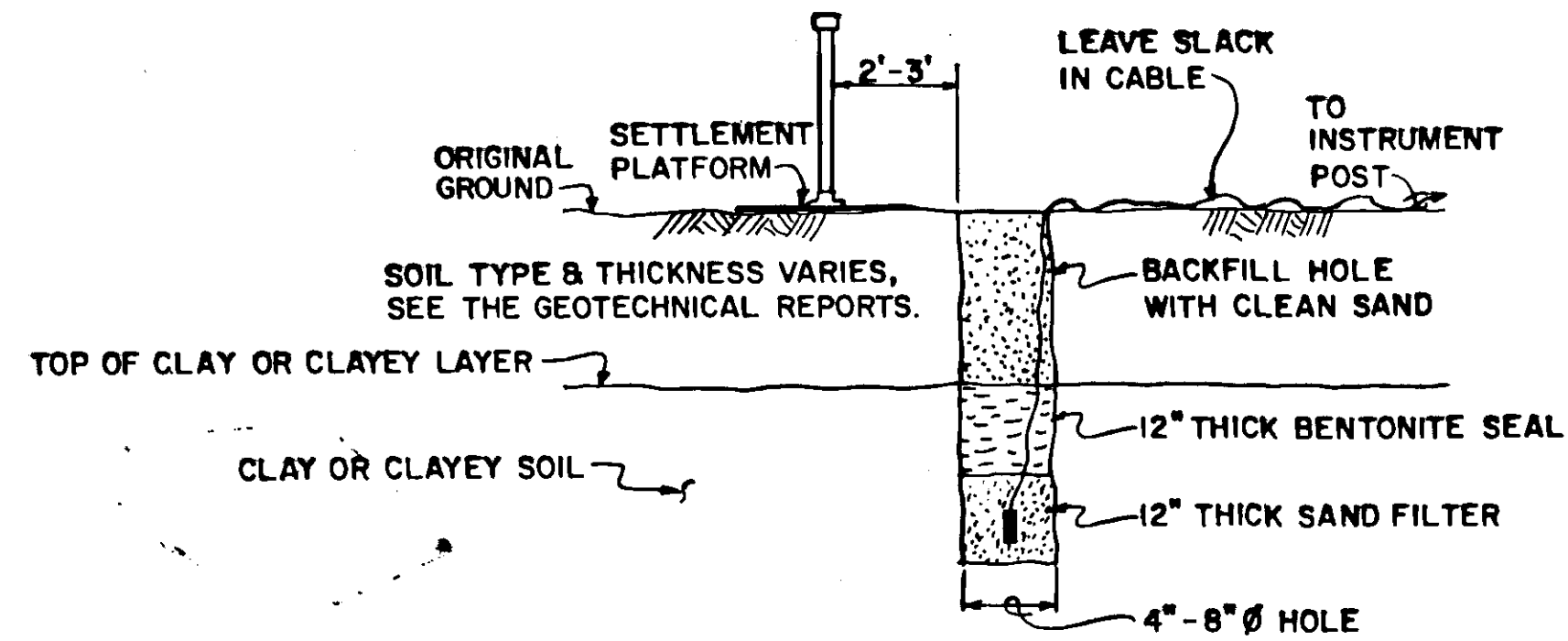
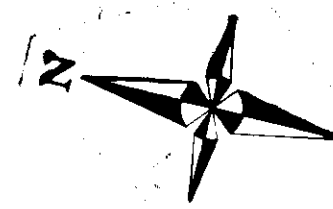
REVISIONS



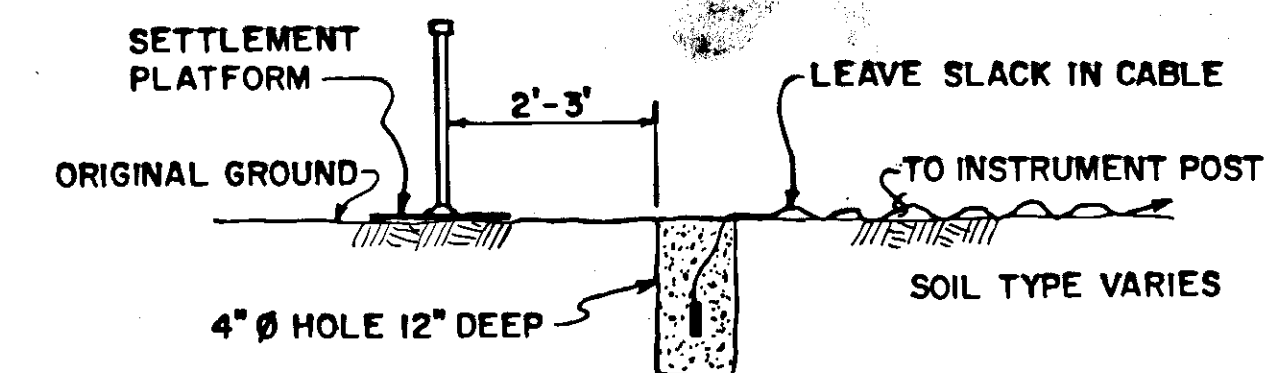
INTERSECTION DETAILS



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA				



(A) V.W.P. INSTALLATION IN CLAY OR CLAYEY SOIL



(B) V.W.P. INSTALLATION IN NON-CLAYEY SOILS

V.W.P. INSTALLATION NOTES:

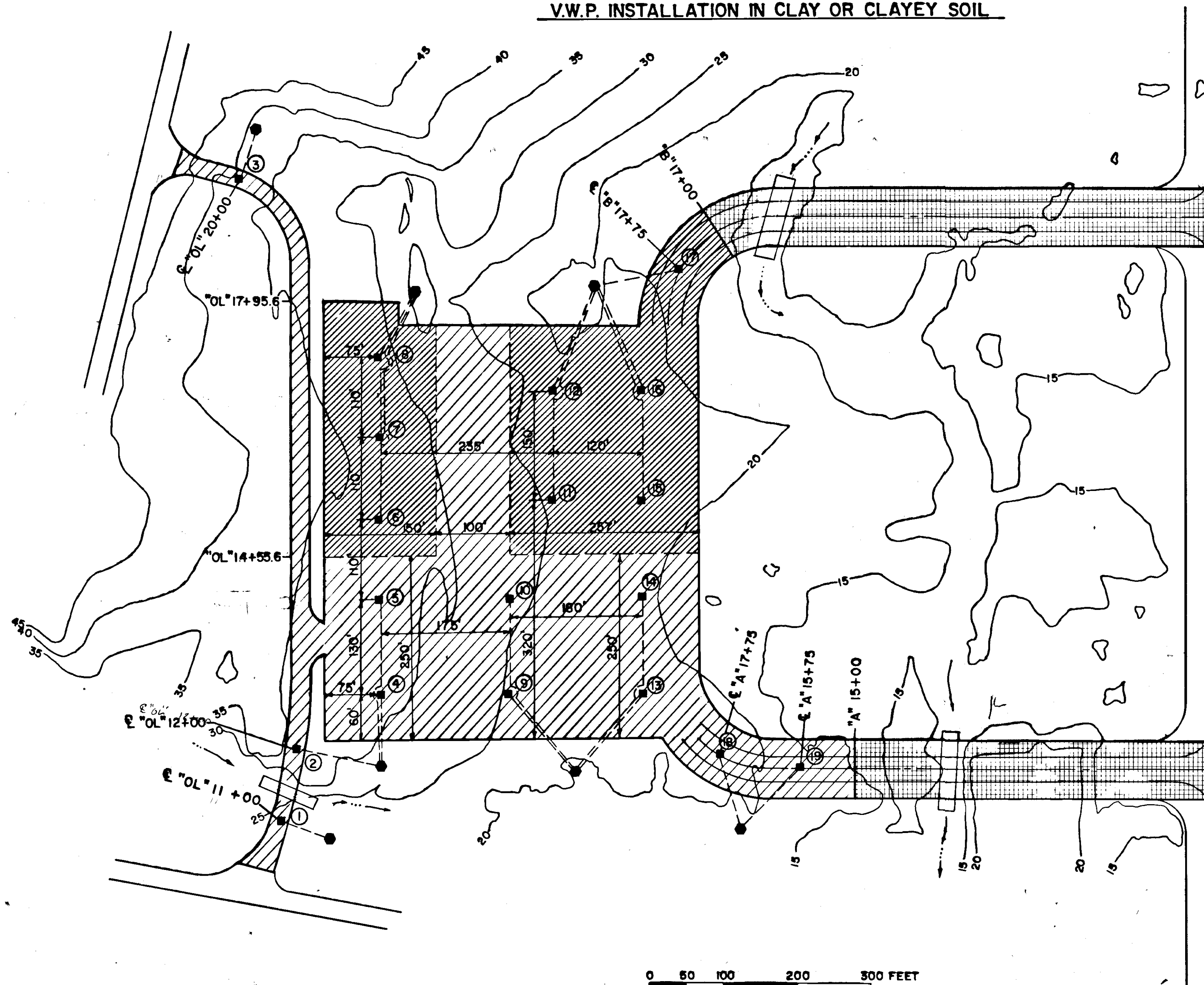
- A. THE V.W.P. CABLE MUST BE PROTECTED FROM DAMAGE FROM PLACEMENT OF THE EMBANKMENT. THE CABLE MAY BE PLACED IN A TRENCH, PROTECTED BY BOARDS, PIPES, CAREFULLY PLACED SLASH OR LOGS, SAND COVER, OR A COMBINATION OF THE ABOVE.
- B. THERE IS VERY LITTLE REDUNDENCY IN THIS SYSTEM, LOSS OF AN INSTALLATION WILL REQUIRE REPLACEMENT OF THAT INSTALLATION.

SETTLEMENT PLATFORM NOTES:

- A. PIPE EXTENSIONS CAN BE ADDED W/STANDARD PIPE COUPLINGS IF NEEDED.
- B. THE PIPE SHALL BE REMOVED AFTER THE SURCHARGE PERIOD AND CAN PROBABLY BE REMOVED BY UNSCREWING IT AND PULLING IT OUT WITH A BACKHOE OR FRONT END LOADER.

V.W.P. INSTRUMENT POST NOTES:

- A. THE ABOVE GROUND PART OF THE POST SHALL BE PAINTED FLOURESCENT ORANGE.
- B. THE INSTRUMENT POST SHALL BE PLACED IN A LOCATION WHICH WILL BE UNTOUCHED BY THE CONSTRUCTION ACTIVITY AND APPROX. 25' FROM THE EMBANKMENT.



V.W.P. CABLES SHALL BE STRUNG OUTSIDE OF SETTLEMENT PLATFORM.

SCREW ON PIPE CAP.
1" PIPE THREADED ON BOTH ENDS. LENGTH TO SUIT THE PARTICULAR INSTALLATION.
PIPE FLANGE WELDED TO PLATE.

1/2" X 24" X 24" STEEL PLATE

SETTLEMENT PLATFORM
PLACE WITHIN 2'-3' OF V.W.P.

THE ABOVE-GROUND PART OF THE POST SHALL BE PAINTED FLOURESCENT ORANGE.

ORIGINAL GROUND

8' LONG 4x4 WITH 4' EMBEDDED IN GROUND. THE 4x4 MAY BE POINTED IF DRIVEN.

SMALL WHITE PLASTIC BUCKET SCREWED ONTO POST. NO TOP OR BAIL. THE ENDS OF THE WIRES WILL BE HUNG ON A HOOK IN THE BUCKET.

BLACK TAPE

V.W.P. CABLE

4x4 MAY BE DRIVEN INTO THE GROUND OR SET IN A PREDRILLED HOLE.

V.W.P. INSTRUMENT POST

SURCHARGE SUMMARY			
LOCATION	DEPTH	TIME	EMBANK. TONS
ACCESS ROAD	4'	6 MONTHS	5,600
APRON	4' OR 6'	8 MONTHS	73,468
TAXIWAYS	3'	6 MONTHS	16,320
	4' OR 6'	8 MONTHS	10,664
LEASE LOTS	4' OR 6'	6 MONTHS	20,267
			TOTAL = 126,319

-LEGEND-

AREA	SURCHARGE DEPTH
	3'
	4'
	6'

- = SETTLEMENT PLATFORM & PIEZOMETER GAUGE LOCATION. (19 each)
- = V.W.P. INSTRUMENT POST LOCATION. (7 each)

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
S.E. REGION DESIGN & CONSTRUCTION

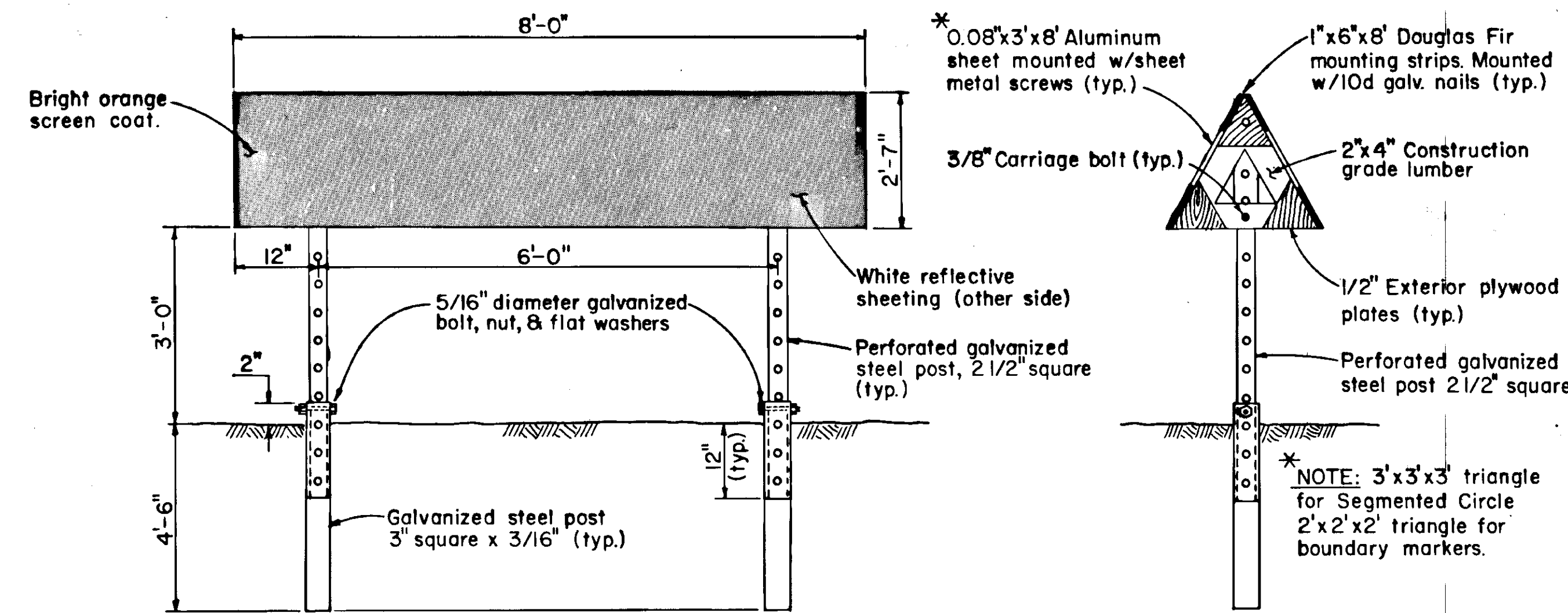
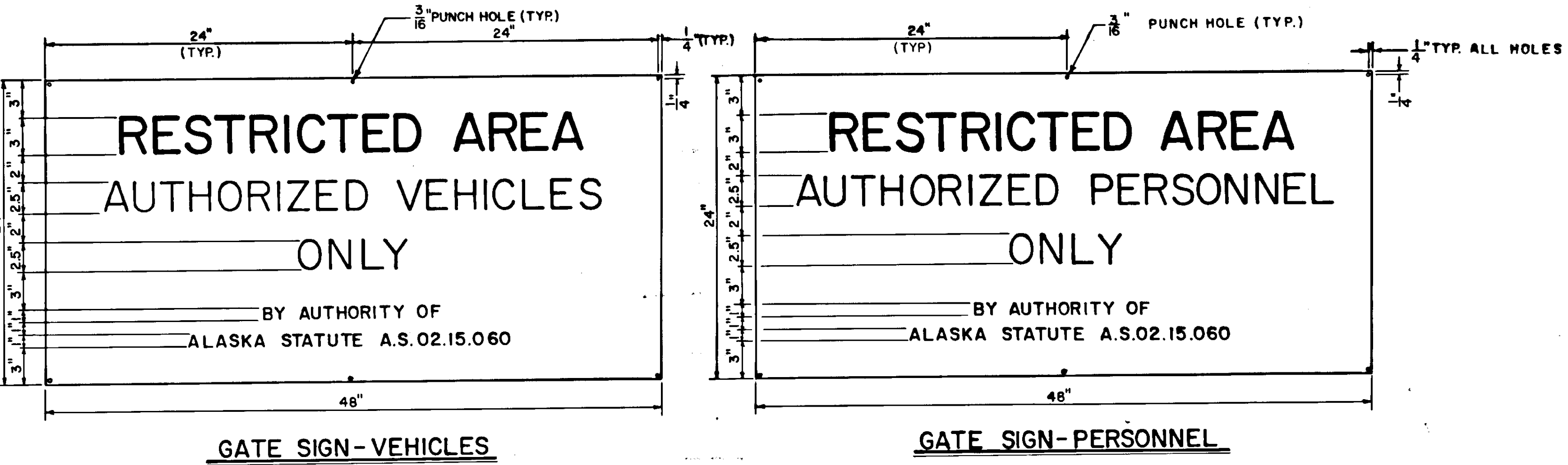
HOONAH AIRPORT
PROJECT NO. 69267
A.I.P. NO. 3-02-0125-01
SURCHARGE PLAN



APPROVED BY:	
APPROVED BY:	
BY	DATE
REVISIONS	

SCALE: 1"=100'	DESIGNED: P.B.	DRAWN: B.A.	SHEET 27 OF 31
	CHECKED:	DATE:	

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA				

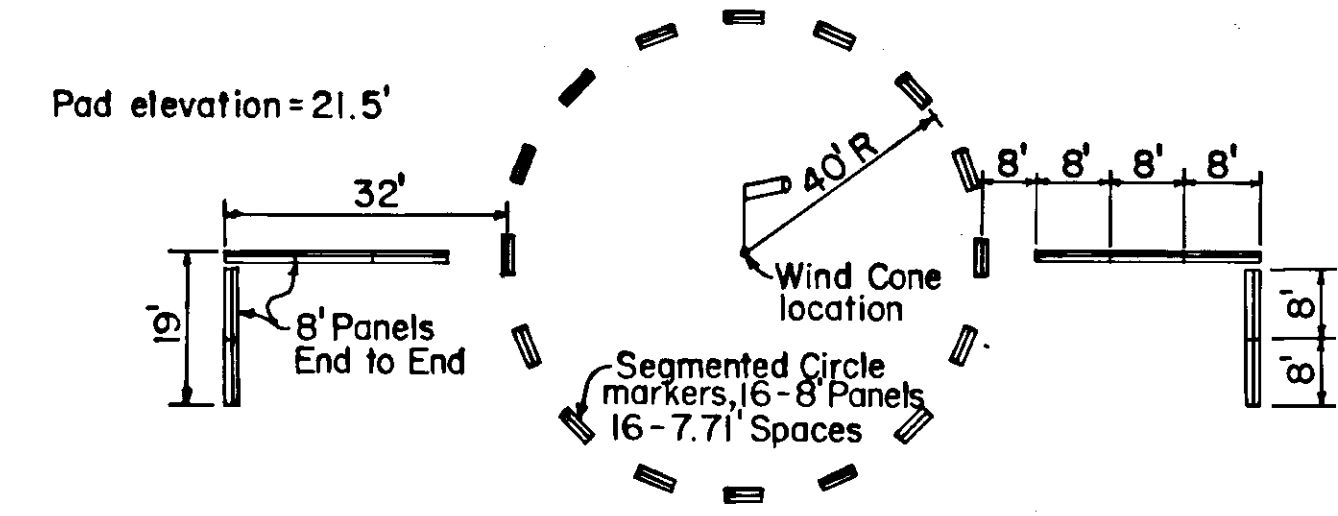


**FRONT VIEW DETAIL
SEGMENTED CIRCLE MARKERS**
NO SCALE

**SIDE VIEW DETAIL, BOUNDARY
MARKERS & SEGMENTED CIRCLE**
NO SCALE



BOUNDARY SIGN PLATE DETAIL



SEGMENTED CIRCLE DETAIL WITH TRAFFIC PATTERN INDICATORS
NO SCALE

GENERAL NOTES

- THE SEGMENTED CIRCLE TRIANGULAR MOUNTING FRAMES SHALL BE FASTENED TO THE STEEL POSTS WITH 2-3/8" X 5" GALV. CARRIAGE BOLTS. FASTEN MOUNTING STRIPS TO 2" X 4" FRAME WITH EXTERIOR CEMENT AND GALV. NAILS. PRE-PUNCH ALUMINUM SHEETS ON 12" CTRS., 3" FROM TOP TO BOTTOM. FASTEN TO MOUNTING STRIPS WITH 1/2" #8 PAN HEAD COATED SHEET METAL SCREWS.

- NOTES:**
- SIGN PLATES SHALL HAVE RED REFLECTIVE SHEETING WITH WHITE LETTERING.
 - SIGN PLATES SHALL BE PLACED ON THE FENCE IMMEDIATELY ADJACENT TO GATES INSTALLED UNDER THIS CONTRACT, 4' ABOVE THE GROUND.
 - "AUTHORIZED VEHICLES" SIGNS SHALL BE USED ON GATES FOR VEHICULAR ACCESS. "AUTHORIZED PERSONNEL" SIGNS SHALL BE USED ON GATES FOR PERSONNEL ACCESS. BOTH SIGNS SHALL BE USED WHERE VEHICLE / PERSONNEL COMBINATIONS OCCUR.
 - ALL FENCE SIGNS SHALL BE ATTACHED WITH 9GA. WIRE.

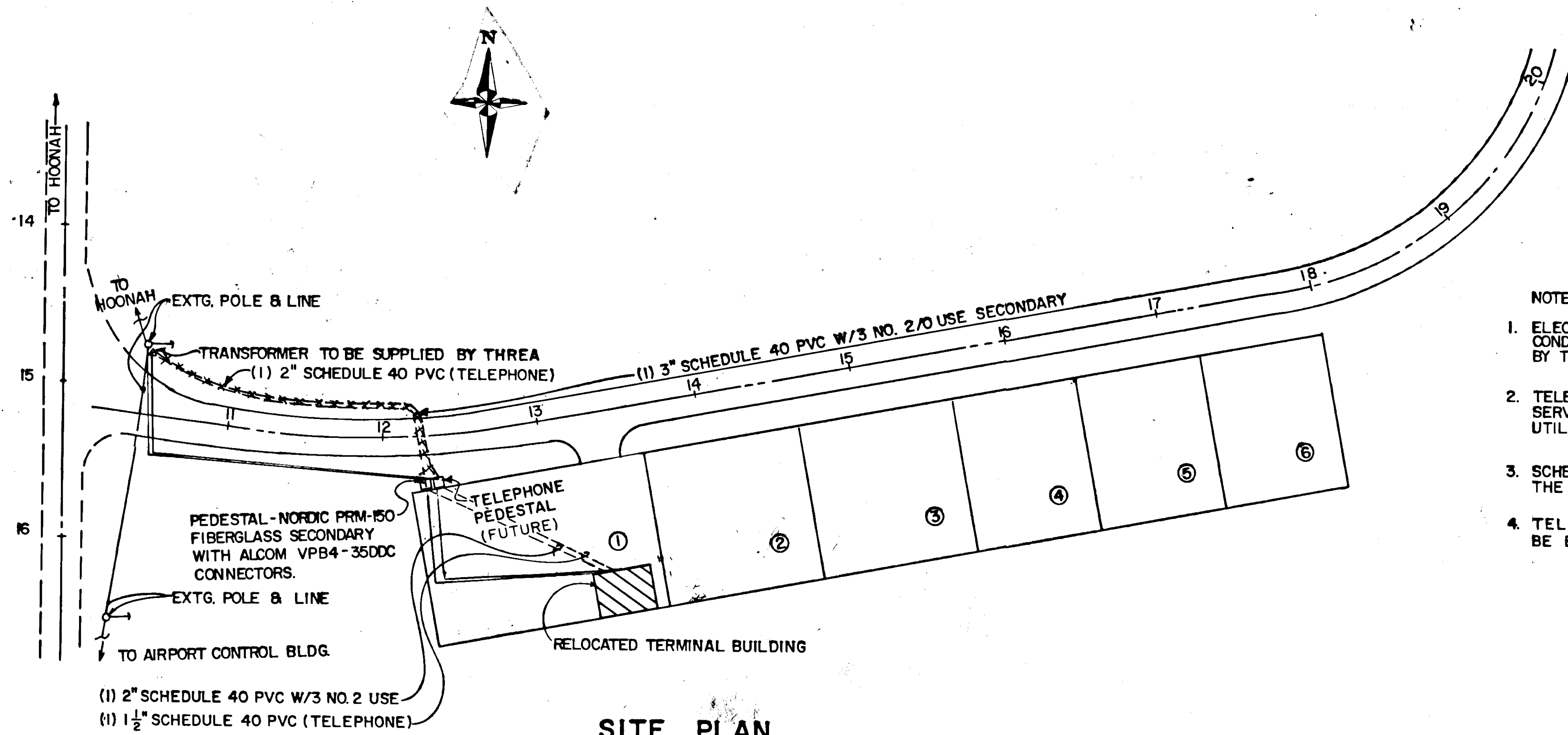


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
S.E. REGION DESIGN & CONSTRUCTION

HOONAH AIRPORT
PROJECT NO. 69267
A.I.P. NO. 3-02-0125-01

PROPERTY SIGNS & SEGMENTED CIRCLE DETAILS

APPROVED BY:			ENGINEERING MANAGER		
APPROVED BY:			DESIGN ENGINEER		
BY	DATE	CHANGE	SCALE:	DESIGNED:	DRAWN: B.A.
REVISIONS			NONE	CHECKED:	DATE:

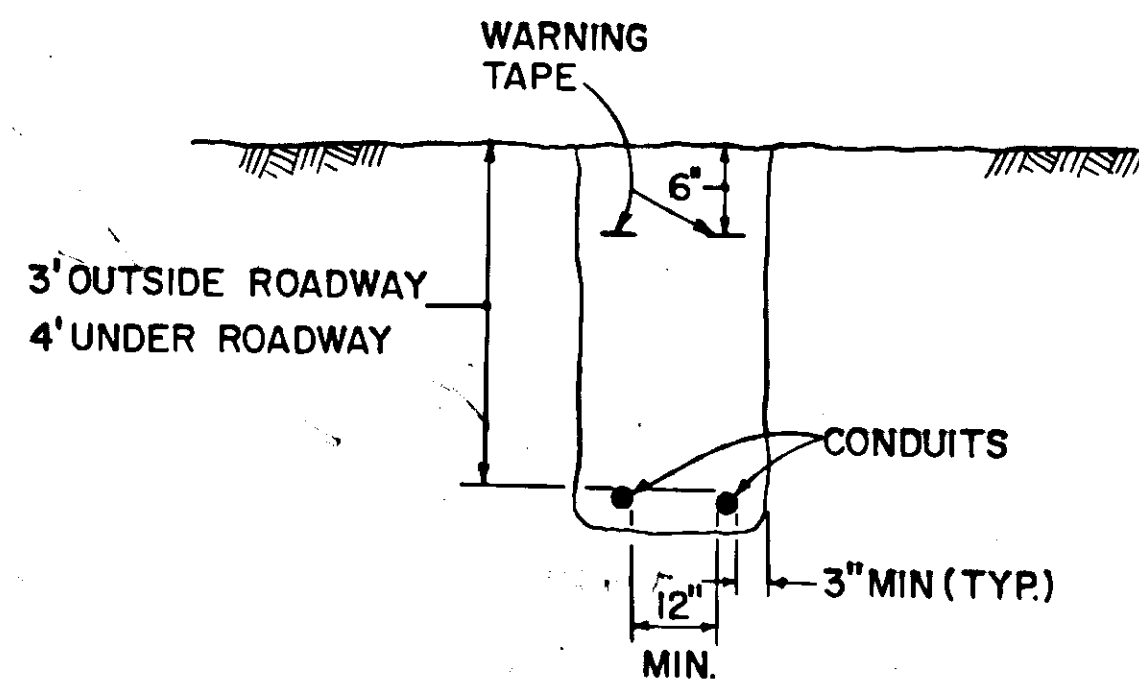


SITE PLAN

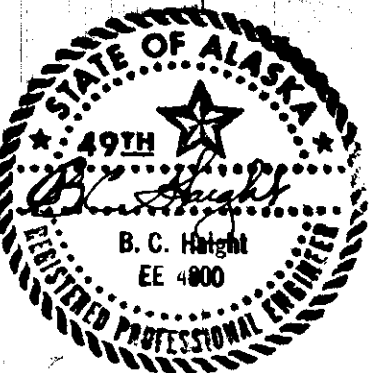
1" = 50'

NOTES:

1. ELECTRIC - THE CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING THE TRANSFORMER, RISERS, CONDUIT, PEDESTAL, AND ELECTRICAL CONDUCTOR. ONLY THE TRANSFORMER IS TO BE PROVIDED BY THE UTILITY. CONTRACTOR WILL MAKE ALL CONTACTS REQUIRED FOR OPERATION OF SERVICE.
2. TELEPHONE - THE CONTRACTOR WILL PROVIDE AND INSTALL CONDUIT FOR TELEPHONE SERVICE. IT WILL INCLUDE THE RISERS AT THE POLE AND BUILDING. THE TELEPHONE UTILITY WILL INSTALL THEIR OWN CABLE AND CONNECTIONS.
3. SCHEDULE 40" PVC TO BE BURIED A MINIMUM OF 3' OUTSIDE THE ROADWAY AND 4' UNDER THE ROAD.
4. TELEPHONE PEDESTAL TO BE SUPPLIED BY THE PHONE COMPANY. CONDUITS SHALL BE BROUGHT UP FOR FUTURE PEDESTAL AND CAPPED.



U.G. CONDUITS DETAIL

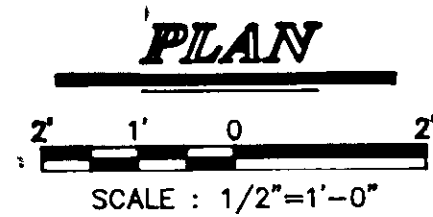
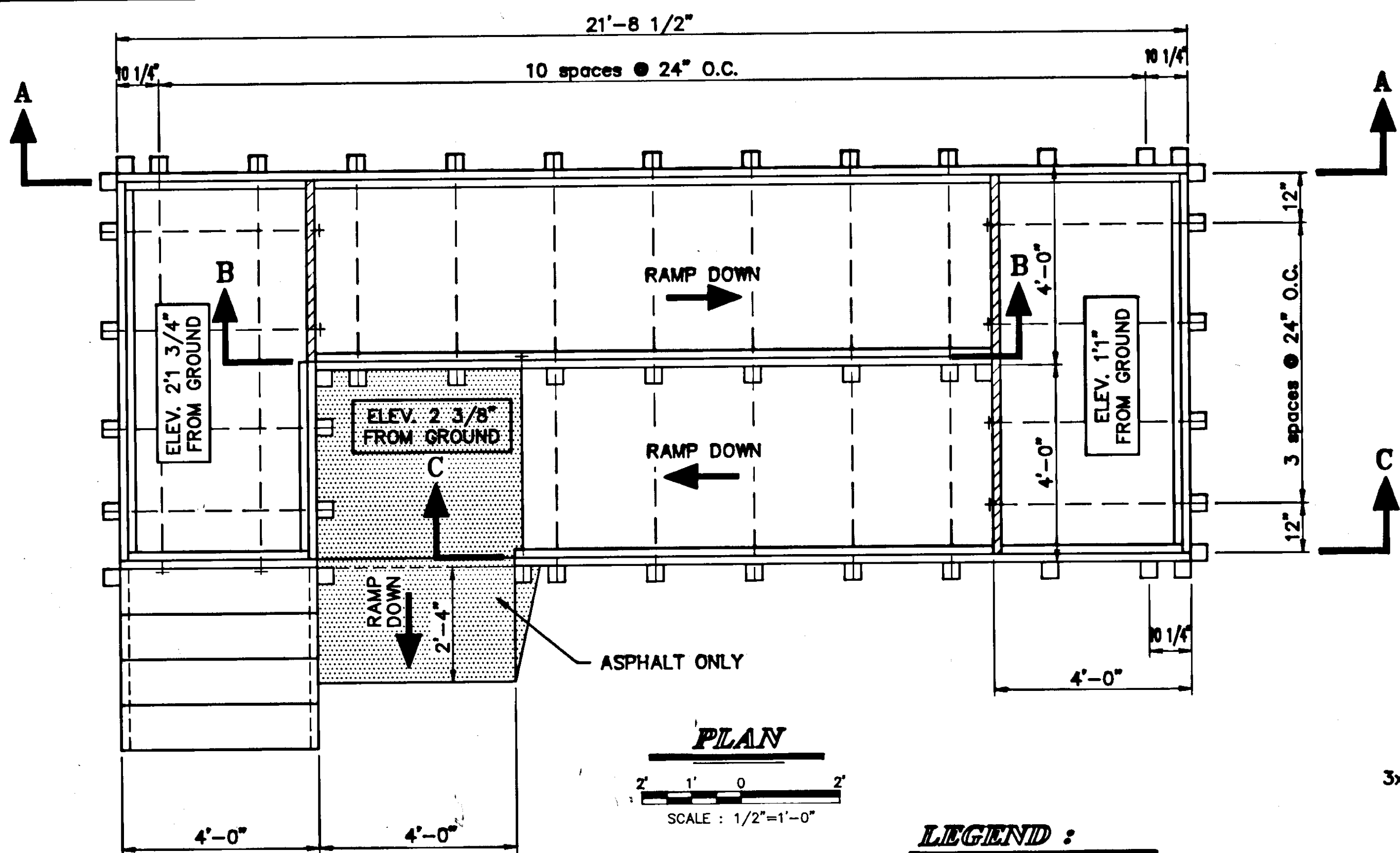


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
S.E. REGION DESIGN & CONSTRUCTION

HOONAH AIRPORT
PROJECT NO. 69267
A.I.P. NO. 3-02-0125-01

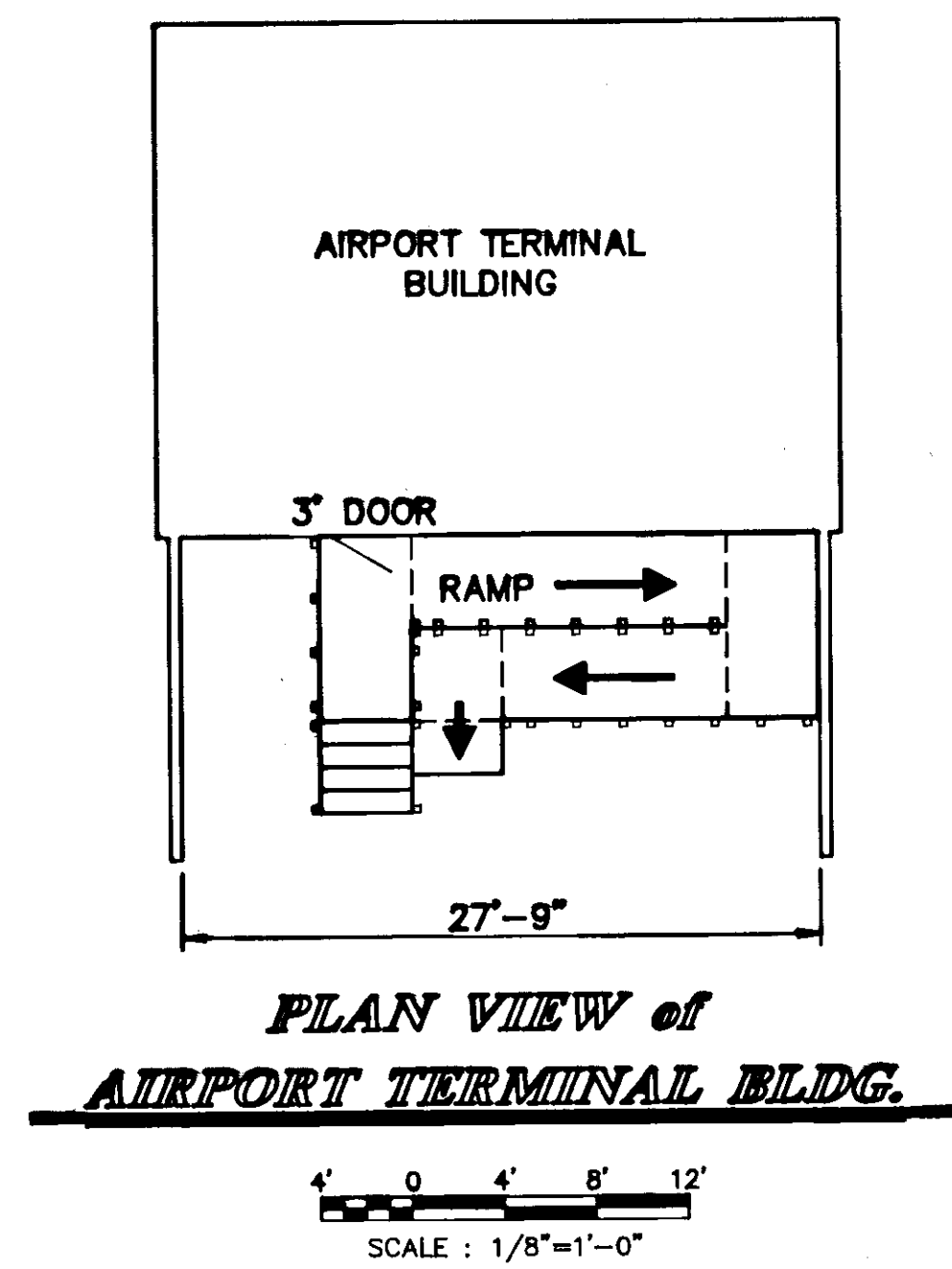
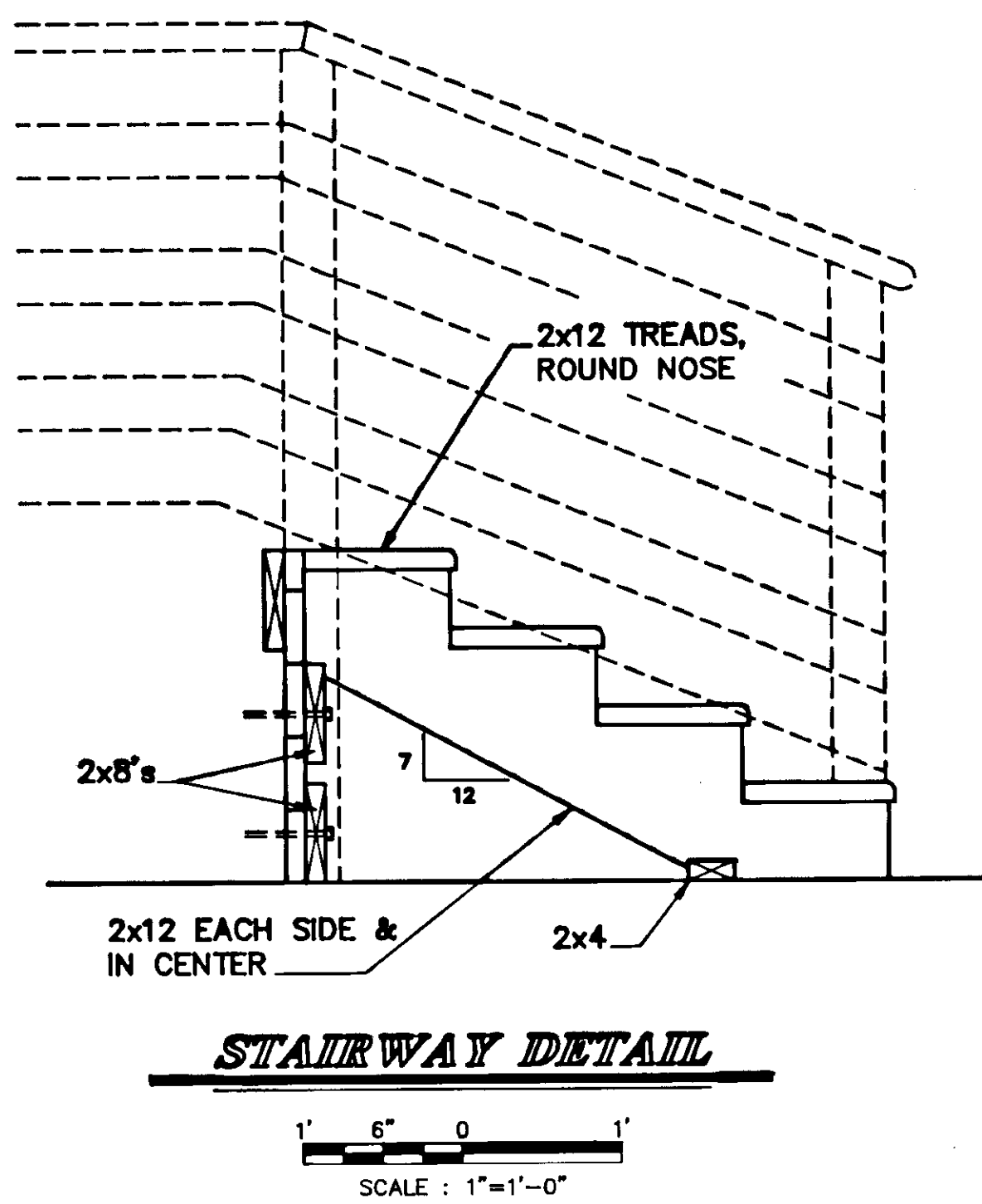
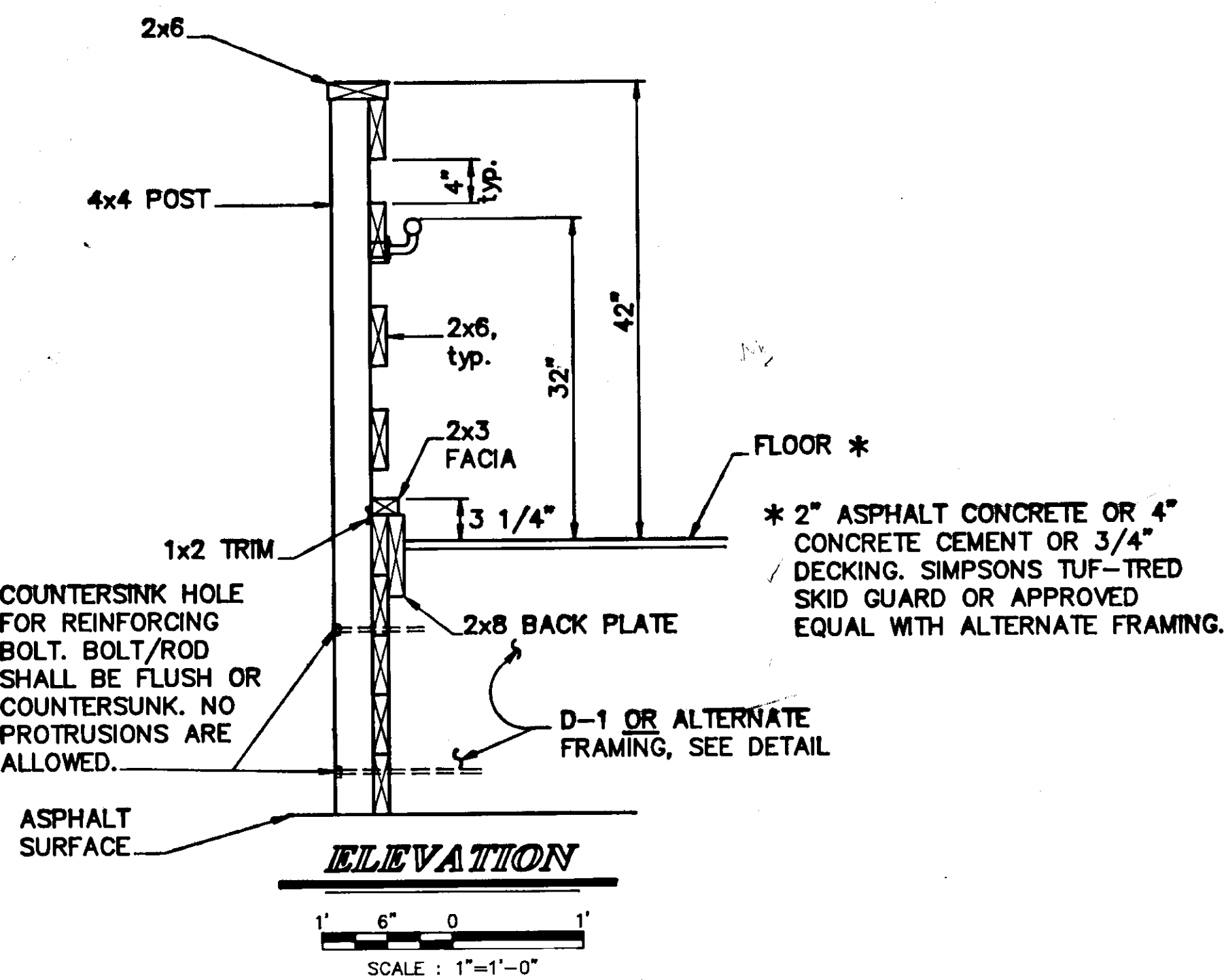
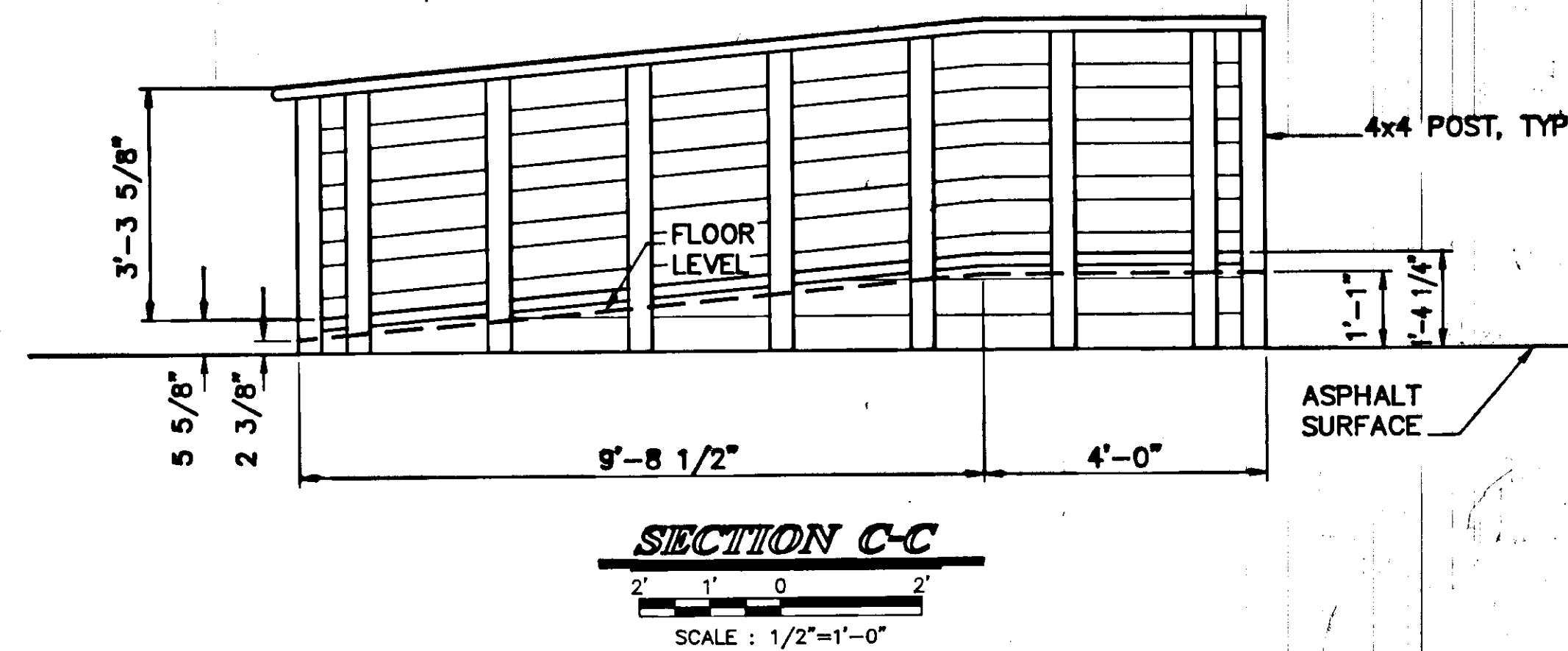
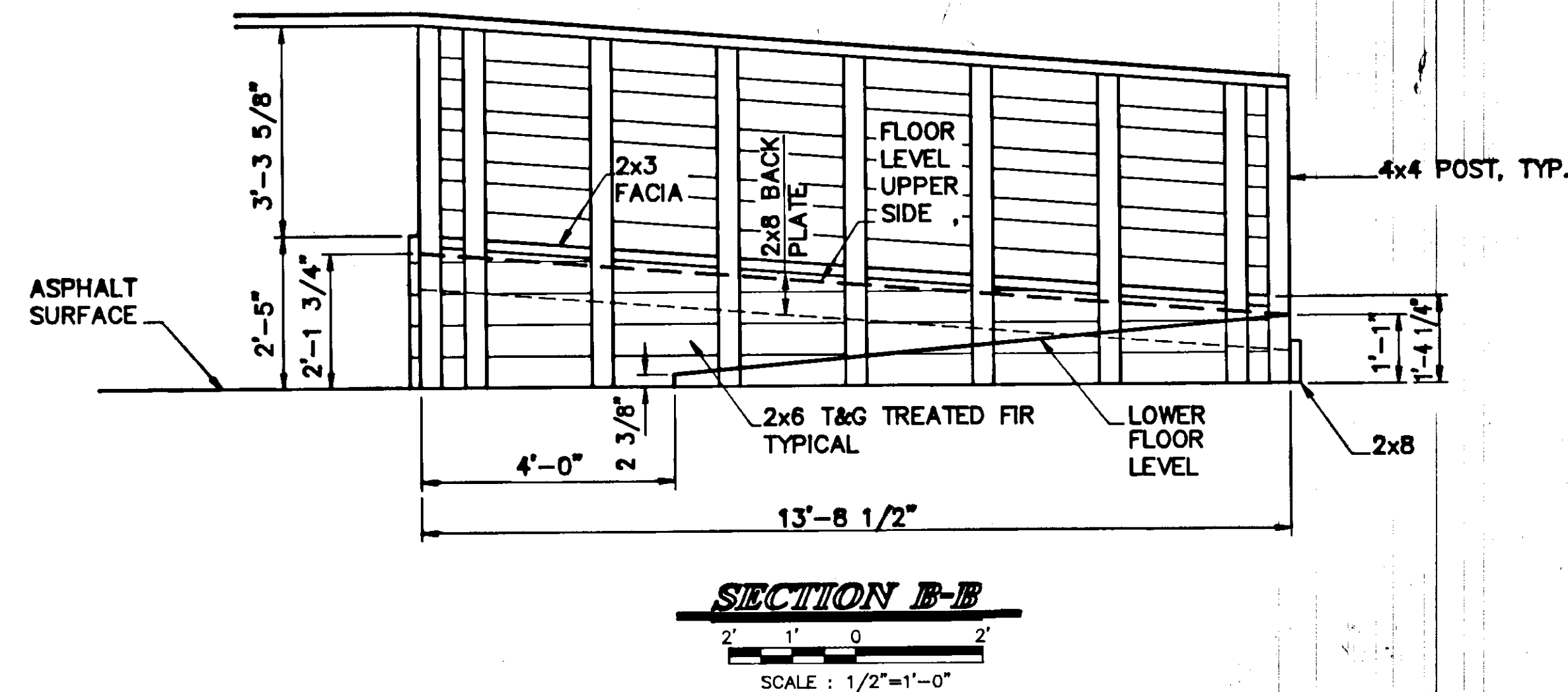
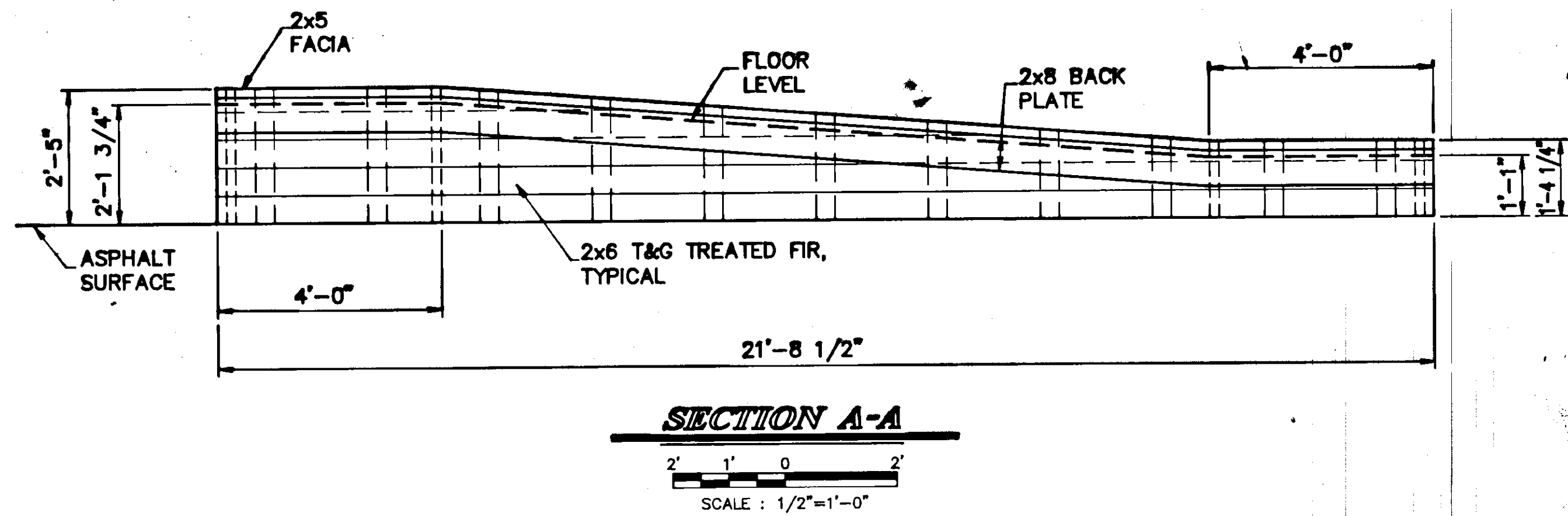
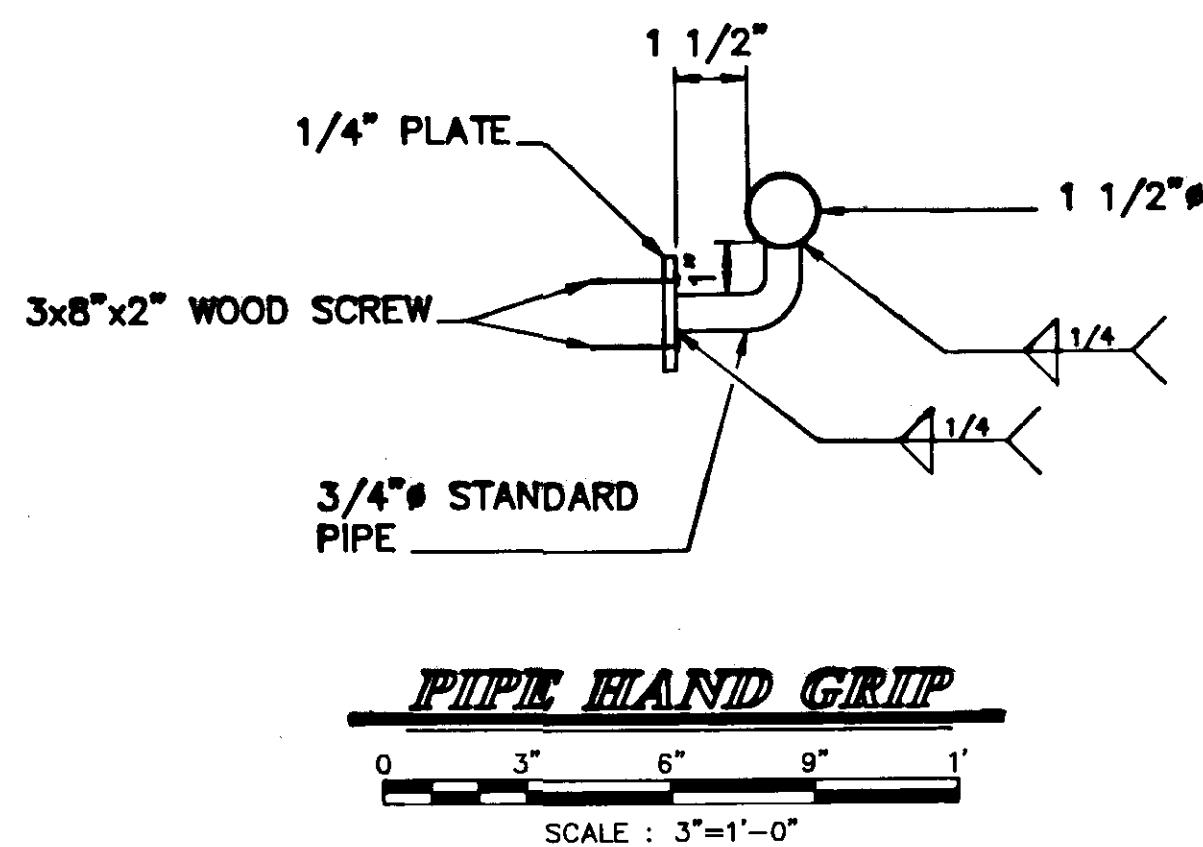
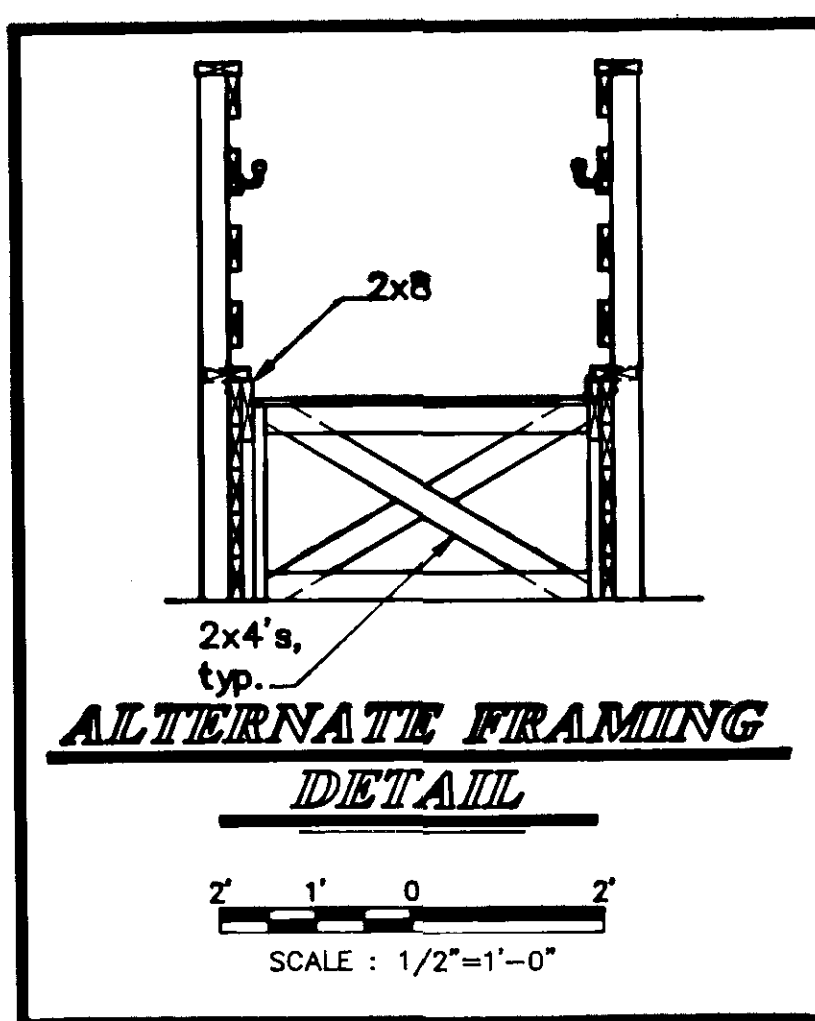
UTILITY LINE CONNECTION DETAIL

APPROVED BY:		ENGINEERING MANAGER	
APPROVED BY:		DESIGN ENGINEER	
BY	DATE	CHANGE	SCALE: NONE
REVISIONS		CHECKED:	DATE:
		DRAWN:	SHEET 30 OF 31



ROD HEIGHT SPACING		
HEIGHT	No. RODS	VERTICAL SPACING
2'-1 3/4" - 1'-3"	2	4" from bottom 8" from top
1'-3" - 2'-1 1/2"	1	Center where appropriate

- LEGEND:**
- Timber, set 3 1/4" above finished walkway
 - Timber, set approx. 6" below finished grade. Set 3/4" below grade in Alternate Framing detail
 - 3/8" Reinforcing rods, threaded each end or use Alternate Framing Detail in place of rods.
 - Hand Rail location



NOTES:

1. All timber shall be treated.
2. All hardware shall be galvanized.
3. Supports for hand grip shall be a minimum of 6" o.c.
4. All hand grip material shall be zinc-coated steel or aluminum.
5. Hand grip shall be continuous on both sides of ramp. They shall extend at least 12" on landings.
6. Substitute hand grip may be used upon approval. Grip must be American National Standard approved.

BY:	DATE:	DESCRIPTION OF CHANGE:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & CONSTRUCTION

HOONAH

HOONAH AIRPORT
A.I.P. 3-02-0125-01
HANDICAP RAMP DETAILS

ALASKA

DESIGNED BY:
P. Bednarowicz
DRAWN BY:
AutoCAD / BWB
CHECKED BY:
P. Bednarowicz

PROJECT No.
69267
DATE:
SHEET 31 of 31

