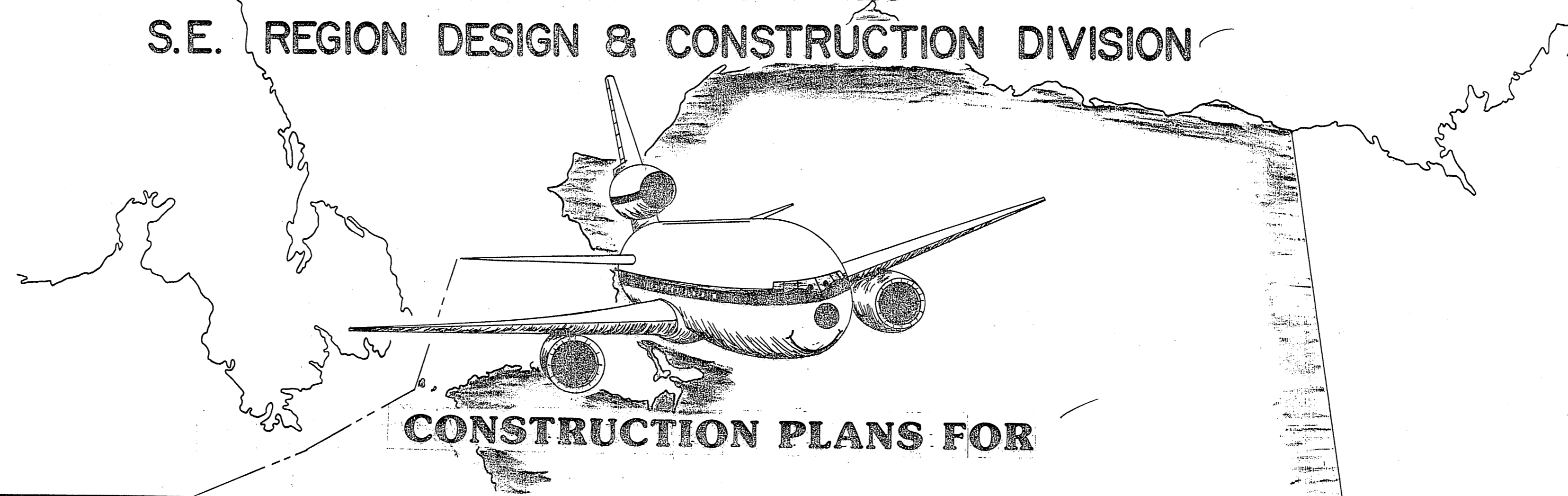


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
S.E. REGION DESIGN & CONSTRUCTION DIVISION



CONSTRUCTION PLANS FOR

PETERSBURG AIRPORT

RUNWAY AND APRON REPAIRS

AS-BUILTS

CONTRACTOR: ASSOCIATED SAND & GRAVEL

ORIGINAL AMOUNT: \$404,440.20

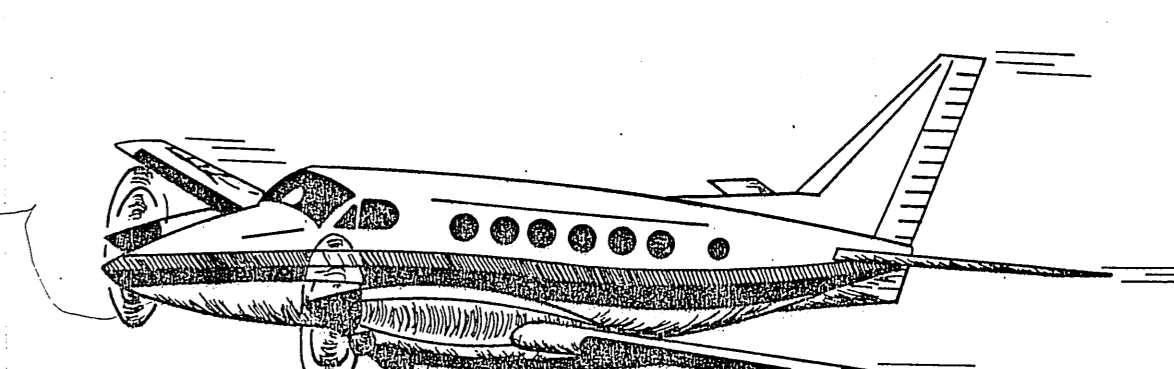
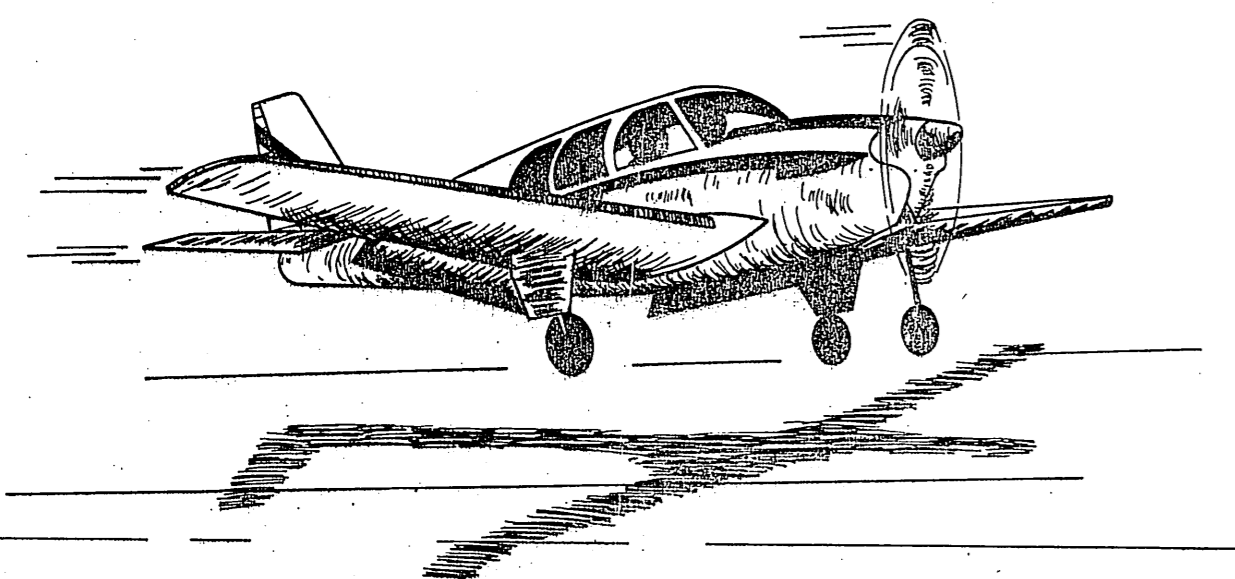
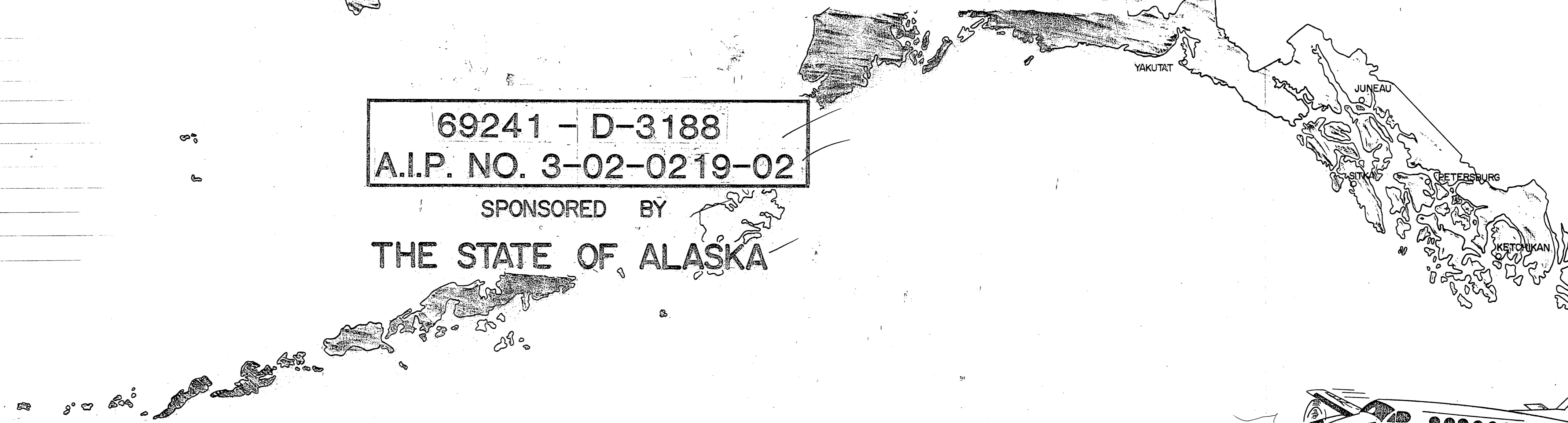
PROJECT ENGINEER: GREG BROWNING

START DATE: JULY 14, 1987

END DATE: SEPTEMBER 24, 1987

69241 - D-3188
A.I.P. NO. 3-02-0219-02

SPONSORED BY
THE STATE OF ALASKA

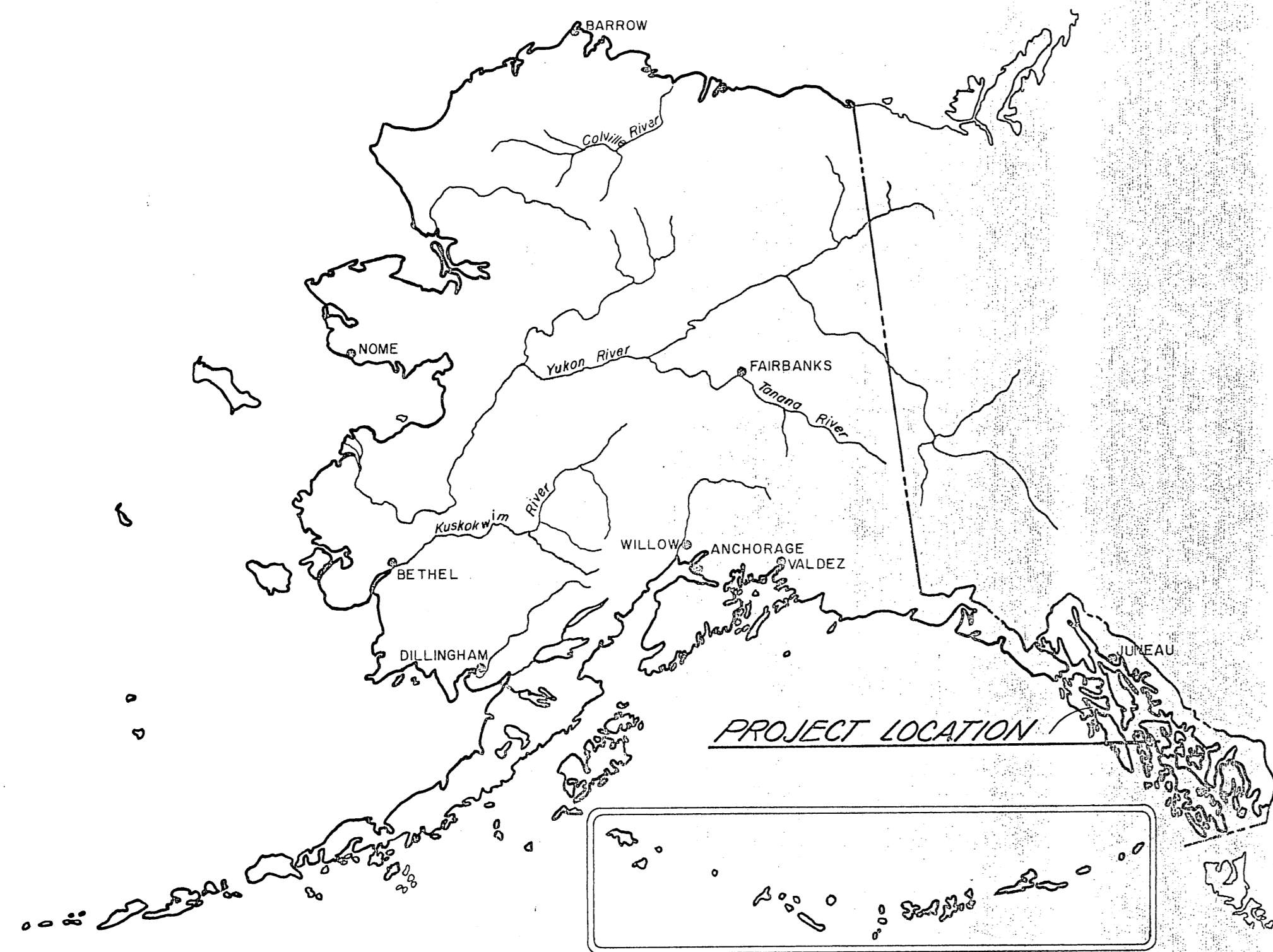


APPROVED
Donald D. Dieckmeyer
DONALD D. DIECKMEYER, DIRECTOR, S.E. REGION DESIGN & CONSTRUCTION
DATE 3-4-87

APPROVED
Wallace K. Williams
WALLACE K. WILLIAMS, DESIGN CHIEF, S.E. REGION DESIGN
DATE 3-5-87

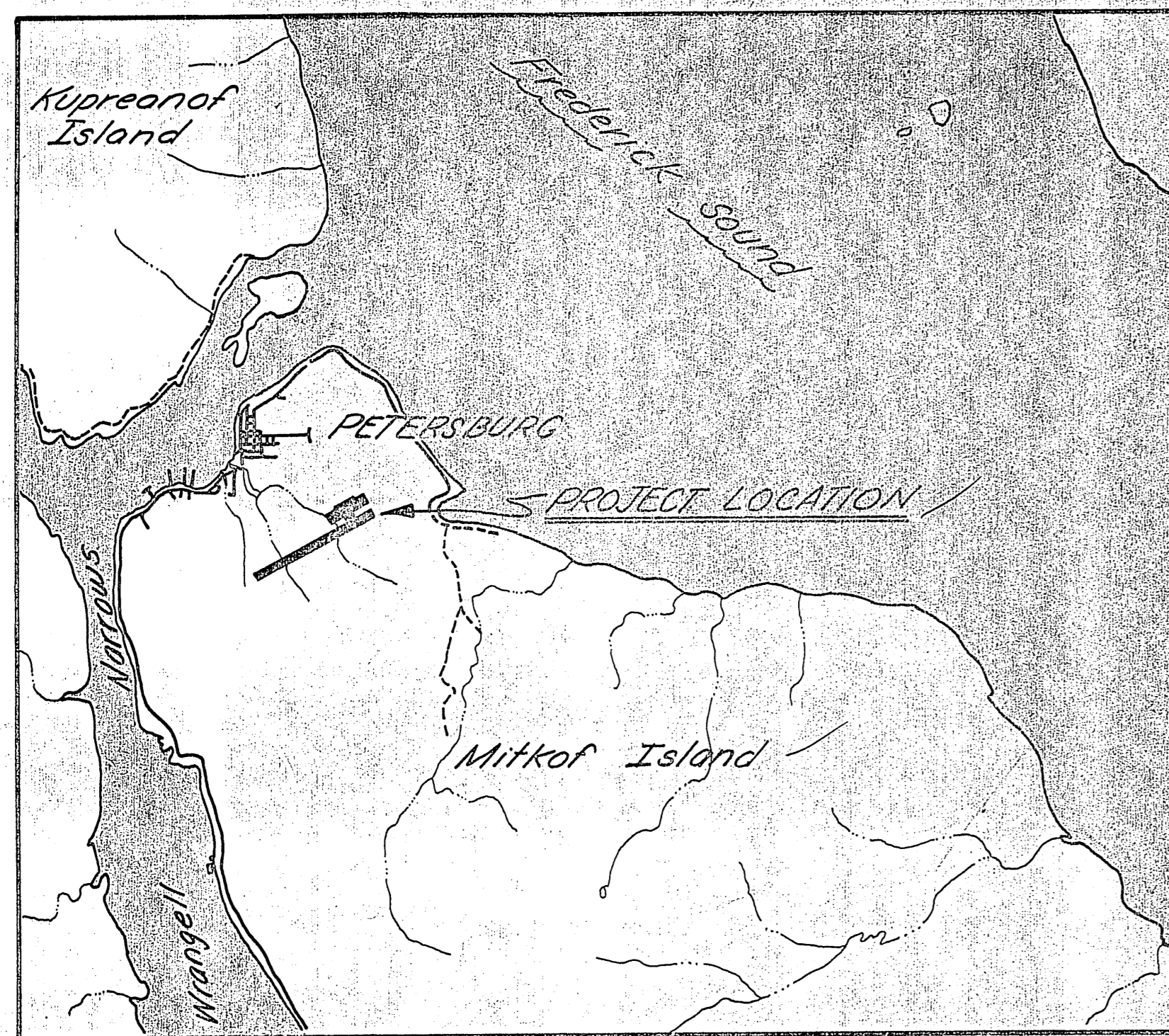
SA B O 12/1/87





LOCATION MAP

NO SCALE



VICINITY MAP

SCALE: 1" = 1 MILE

ESTIMATED QUANTITIES

No.	ITEM	QUANTITY	UNIT
90	DBE & MBE	All Req'd	L.S.
100	Mobilization & Demobilization	All Req'd	L.S.
131	Engineer's Field Office (CO No. 2)	All Req'd	L.S.
280	Pavement Grooving	103,461 103,000 (CO No. 3)	S.Y.
552	Paving Geotextile	8856 7,830	S.Y.
620a	Bituminous Material	109.83 65.5	TON
620b	Seal Coat Aggregates	901.2 789.7	TON
660a	Asphalt Concrete Pavement	1324.50 1289.5	TON
660c	Asphalt Cement, AC-5	70.23 77.4	TON
700c	State Traffic Marking Paint	All Req'd	L.S.
1000r	Single Faced Taxiway Guidance Sign	All Req'd	L.S.

DELETIVE ALTERNATE WORK

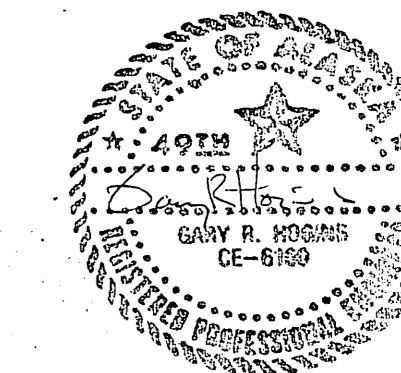
552	Paving Geotextile	8856 7,830	S.Y.
660a	Asphalt Concrete Pavement	1324.50 1289.5	Ton
660c	Asphalt Cement, AC-5	70.23 77.4	Ton

BASIS OF ESTIMATE

ITEM NO.	ITEM	EST. FACTOR
*	Bituminous Tack Coat	0.25 gal./s.y. 235 gal./Ton
620a	Bituminous Material	0.25 to 1.5 gal./s.y. 241 gal./Ton
620b	Seal Coat Aggregate	20 to 16 / s.y.
660a	Asphalt Concrete Pavement	116 lb./s.y. in depth
660c	Asphalt Cement, AC-5	6% of Item 660a. 5.3% (ACTUAL)
* See Item 552 Paving Geotextile		

INDEX

SHEET TITLE	SHEET No.
Title Sheet	1
Estimate of Quantities	2
Layout Plan, Typical Section, and Details	3
Apron Plan, Typical Section, and Details	4
Runway Marking Details	5
Guidance Sign Details	6
State Furnished Materials Source	7



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PETERSBURG AIRPORT
69241 ~ D-3188
LOCATION & VICINITY MAPS,
INDEX AND ESTIMATED QUANTITIES

APPROVED: *Wallace K. Williams* 3-5-87
WALLACE K. WILLIAMS CHIEF OF DESIGN

APPROVED: *William L. Baumgartner*
WILLIAM L. BAUMGARTNER DESIGN CHIEF - GROUP B

SCALE: AS SHOWN
DESIGNED: *WH*
DRAWN: *Ca*
CHECKED: _____ DATE: _____ SHEET 2 OF 7


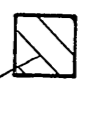


BY	DATE	CHANGE	REVISIONS

✓ *WH* 12/1/87

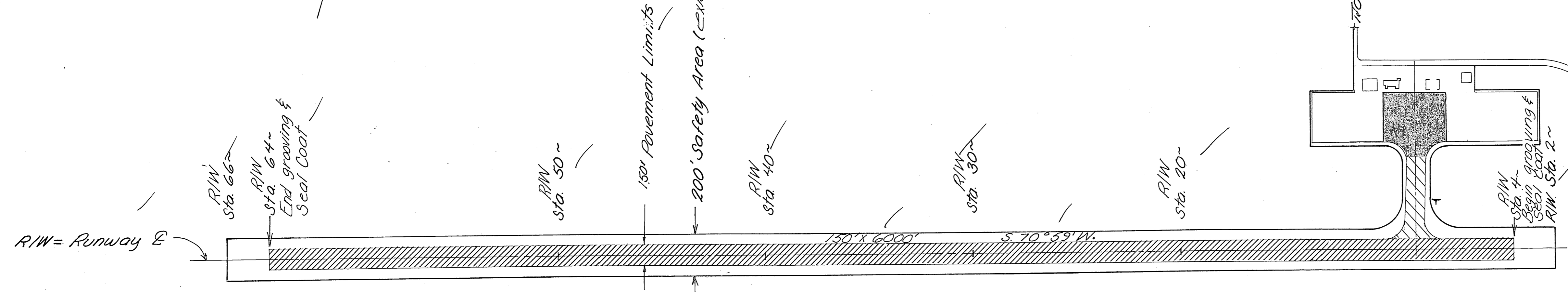
LAYOUT PLAN TYPICAL SECTION AND DETAILS

HORIZONTAL CONTROL
It shall be the contractor's responsibility to determine existing centerline of Runway 4/22 to the satisfaction of the engineer

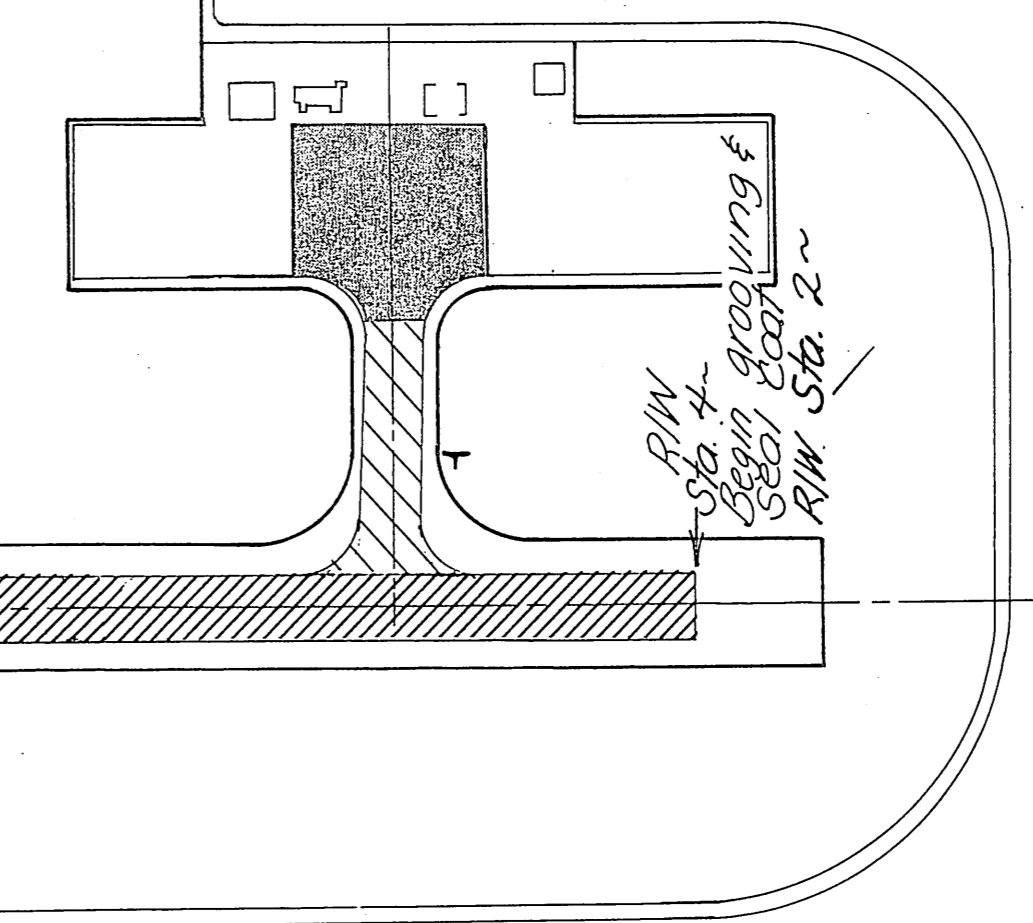
LEGEND

-  150' x 6000' Runway Grooving & Seal Coat. Basic Bid Work, this contract.
-  90' x 375' Taxiway Seal Coat. Basic Bid Work, this contract.
-  230' x 300' Apron Asphalt Overlay and Fabric Reinforcing. Deletive Alternative Work, this contract.
-  Runway Guidance Sign. Basic Bid Work, this contract.

NOTE: For Apron & Taxiway Details, See Sheet 4.

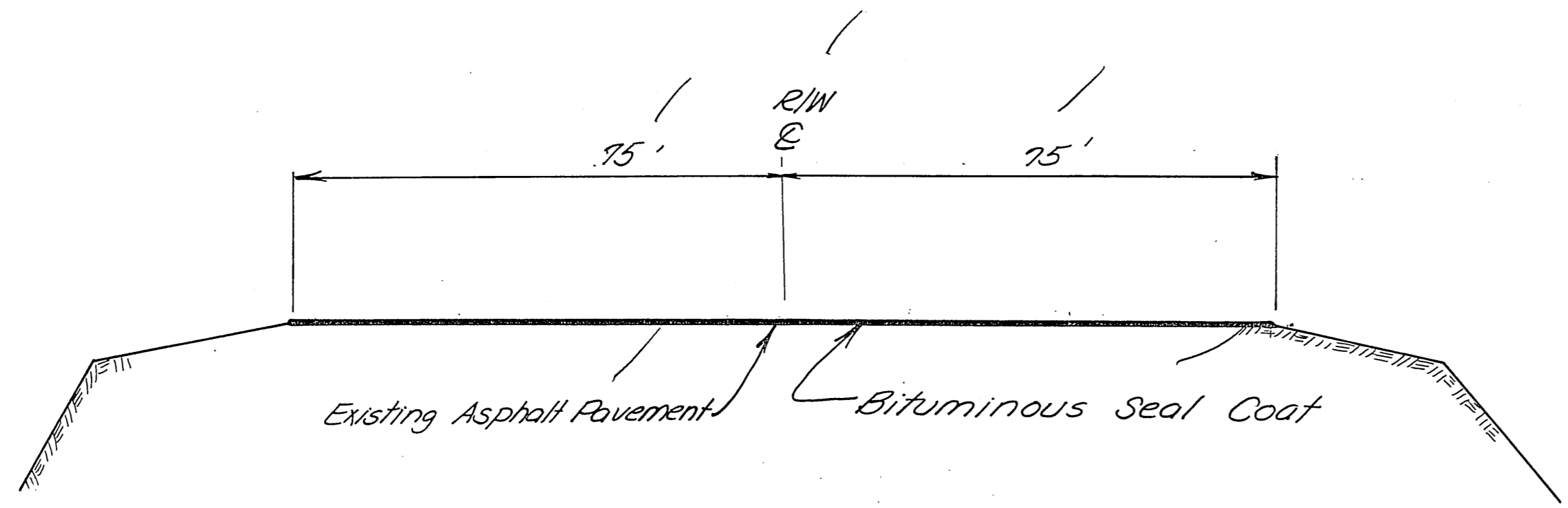


LAYOUT PLAN



TYPICAL GROOVE SECTION

NOTE:
1. See Section 280 of the Special Provisions and Construction Specifications for details of grooving operations.



RUNWAY TYPICAL SECTION

(R/W STA. 4+00 TO R/W STA. 64+00)



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

PETERSBURG AIRPORT
69241-D-3188
Layout Plan, Typical Section & Details

APPROVED BY: *William K. Williams* 3-5-87

APPROVED BY: *W. R. ...*

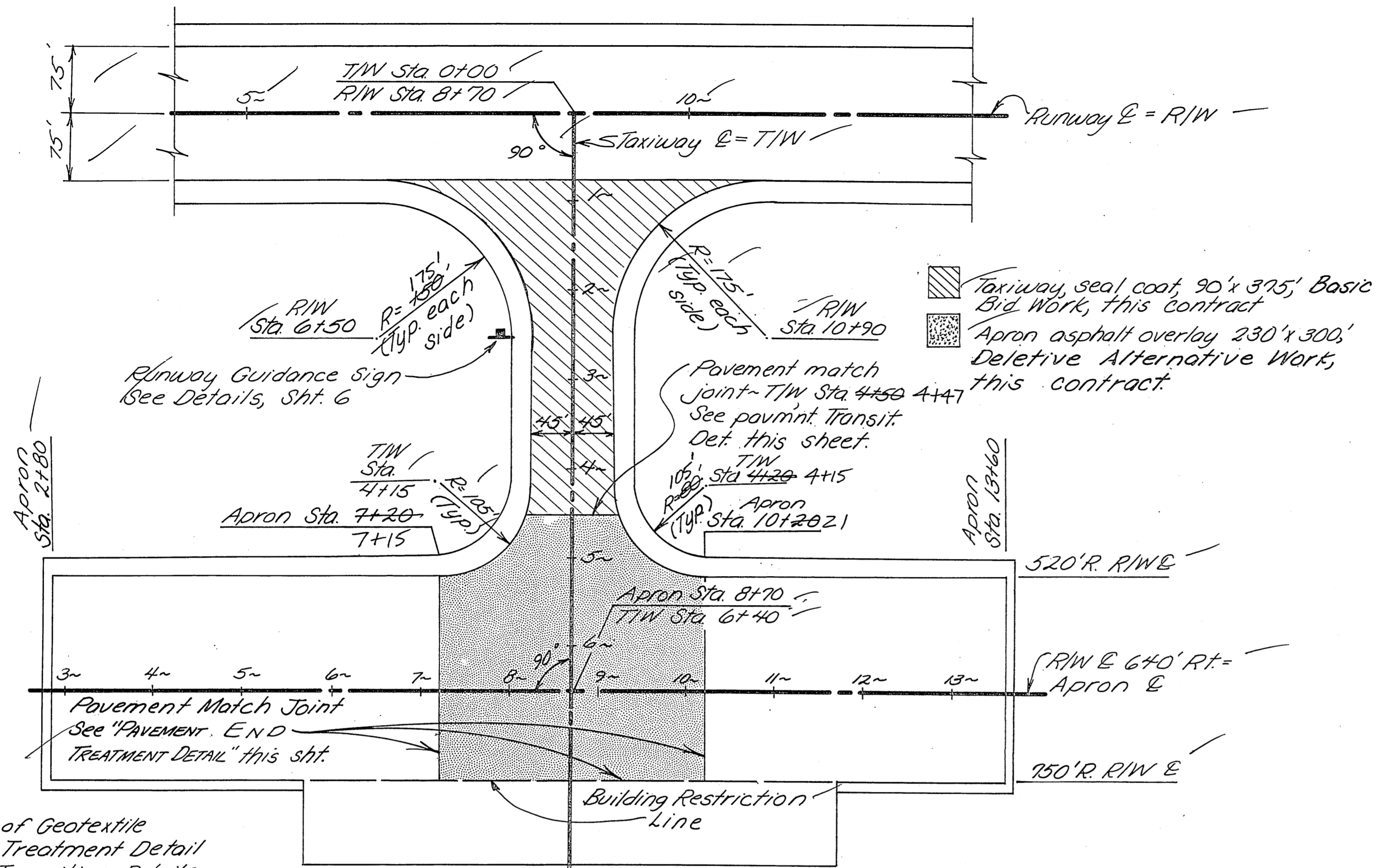
BY	DATE	CHANGE
REVISIONS		

SCALE: DESIGNED: *WH* DRAWN: *cb* SHEET 3 OF 7
CHECKED: DATE:

GPB 12/1/87

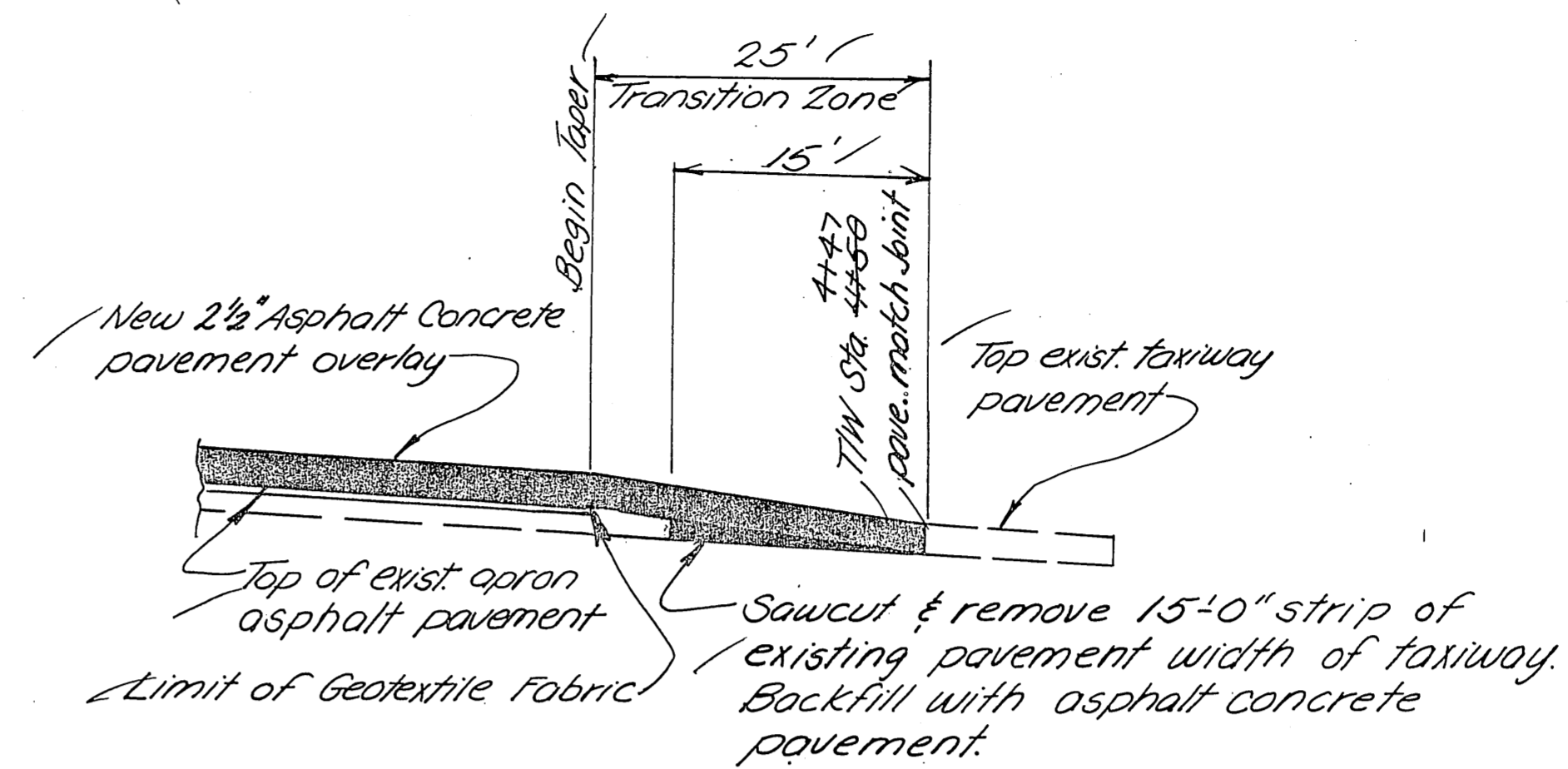
APRON & TAXIWAY PLAN, TYPICAL SECTION & DETAILS

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA				



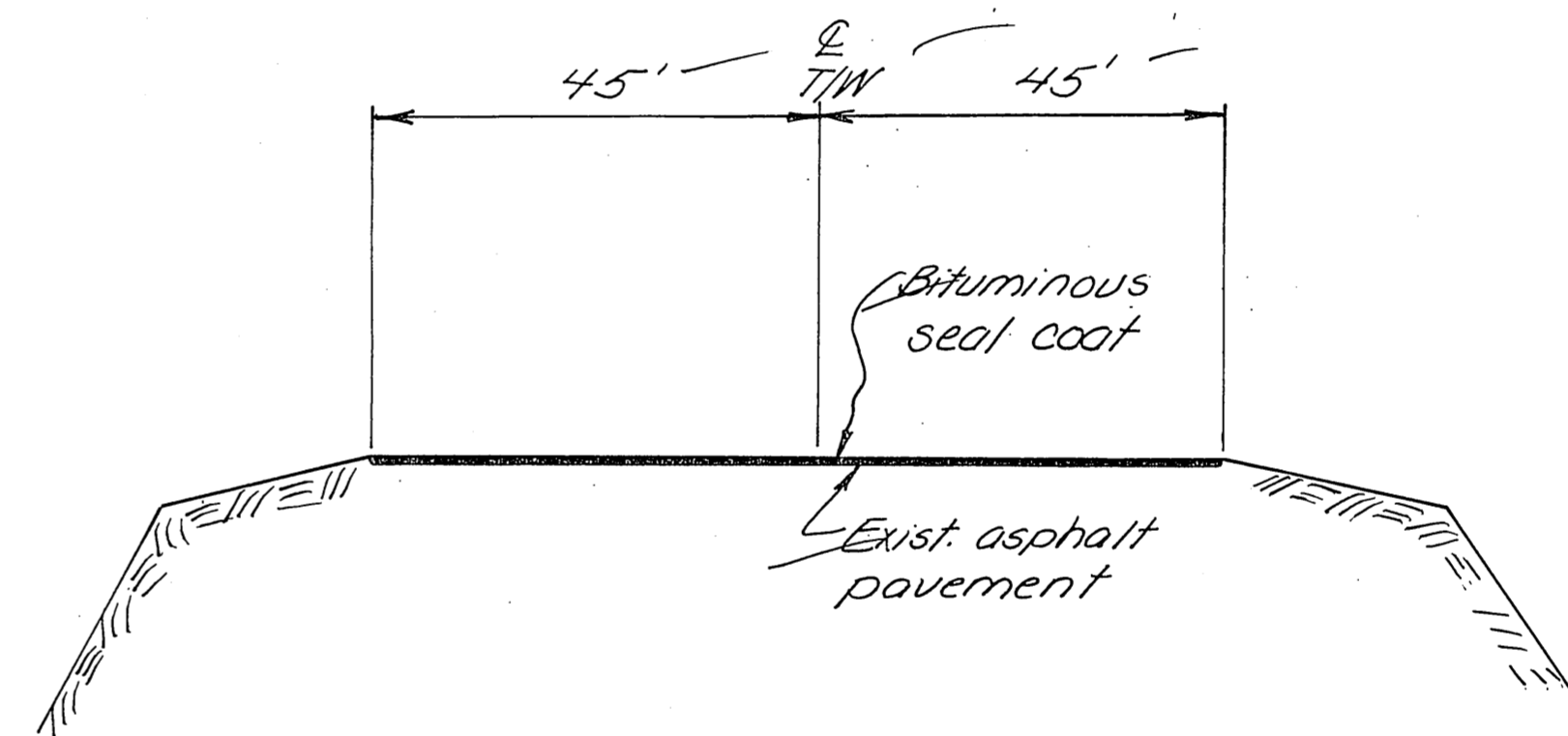
NOTE: For limits of Geotextile Fabric, see End Treatment Detail and Pavement Transition Details, this sheet.

APRON PLAN

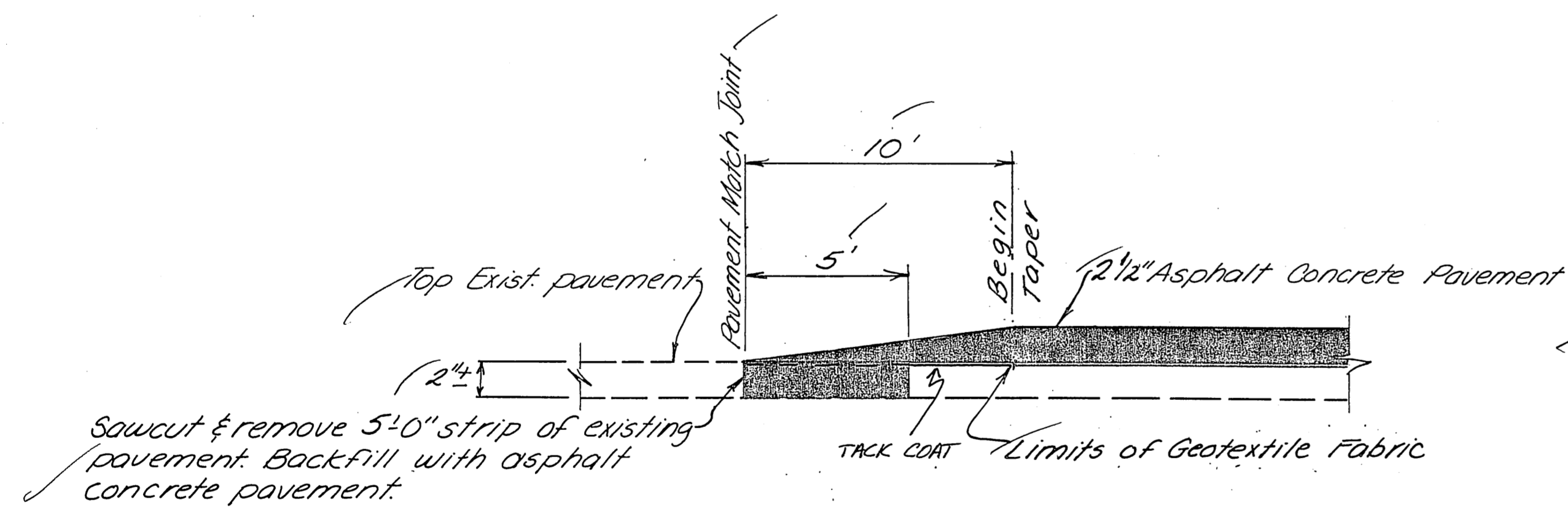


NOTE: See Section 660.23 of the Special Provisions for basis of payment for this work.

PAVEMENT TRANSITION DETAIL

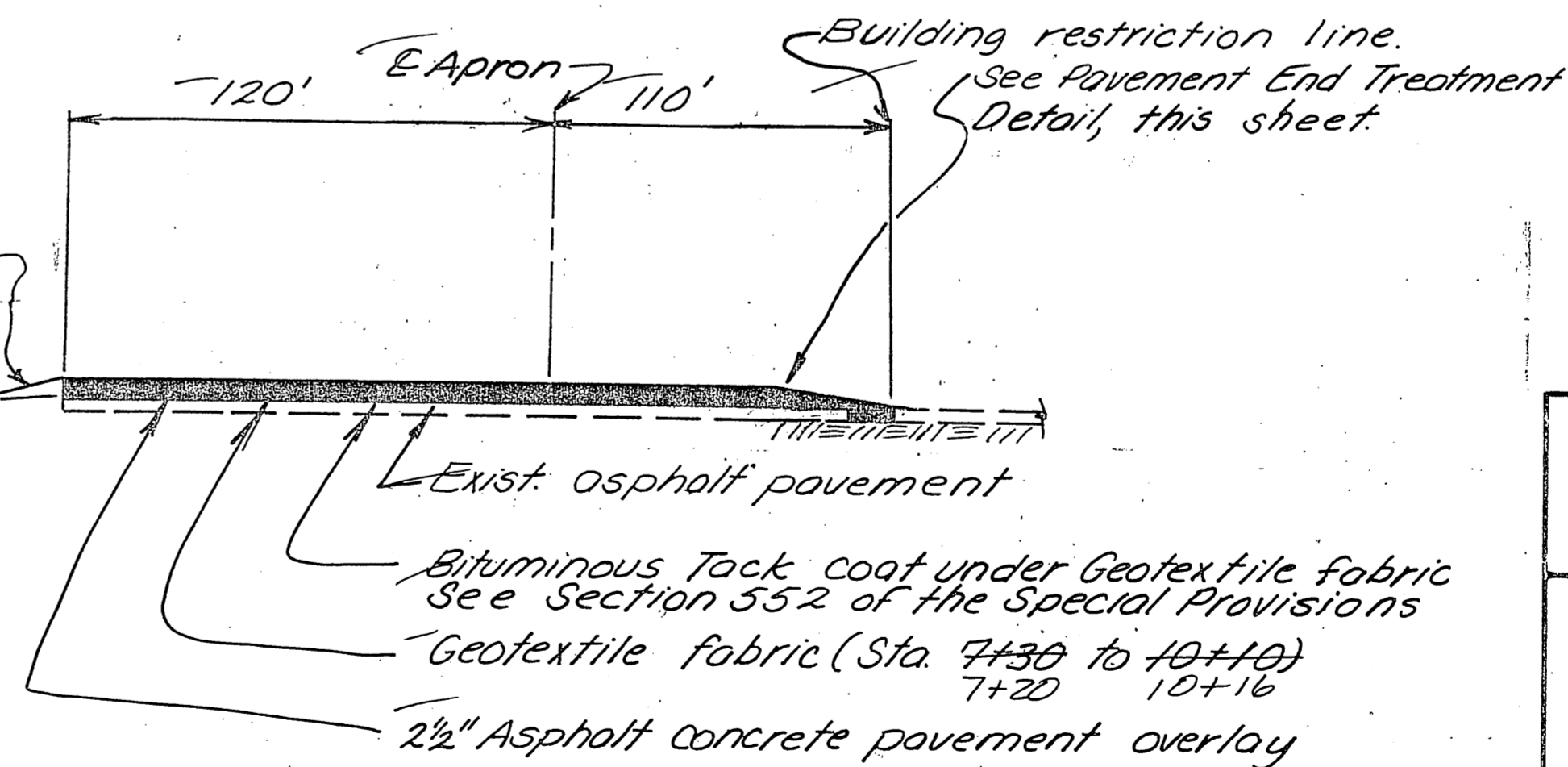


TAXIWAY TYPICAL SECTION



PAVEMENT END TREATMENT DETAIL

Regrade existing gravel shoulder to match top of new asphalt overlay (5% max. see Section 660 of the special provisions.)



APRON TYPICAL SECTION
(APRON STATION 7+20 SHOWN)



BY	DATE	CHANGE

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

PETERSBURG AIRPORT
69241-D-3188
Apron Plan, Typical Section & Details

APPROVED BY:	WALLACE K. WILLIAMS	3-5-87	CHIEF OF DESIGN
APPROVED BY:	WILLIAM L. BAUMBARTNER		DESIGN CHIEF - GROUP B
SCALE:	DESIGNED: W/W	DRAWN: CDA	CHECKED: DATE:
			SHEET 4 OF 7

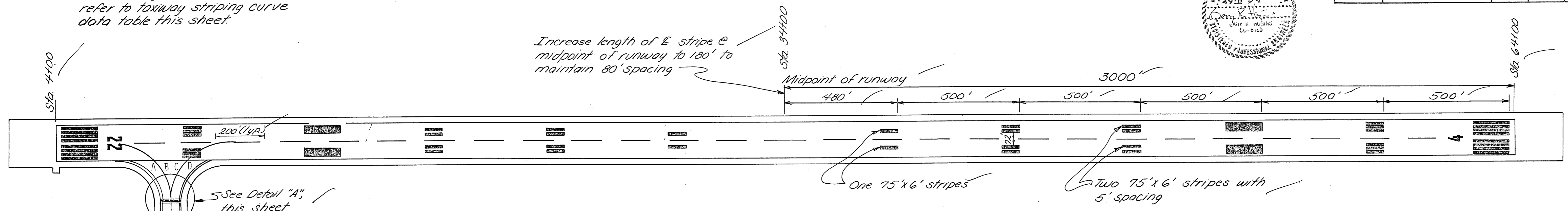
✓ GCB 12/1/87

RUNWAY MARKING DETAILS

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA				

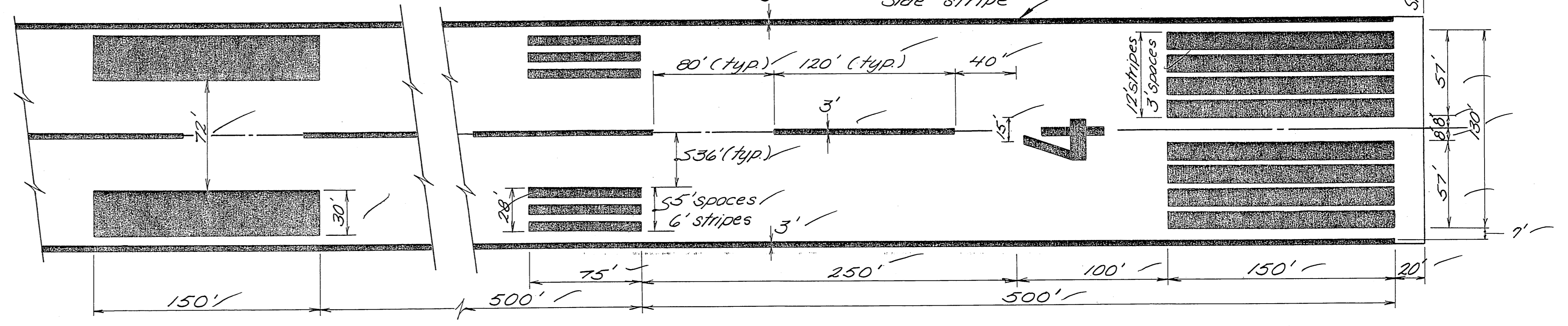
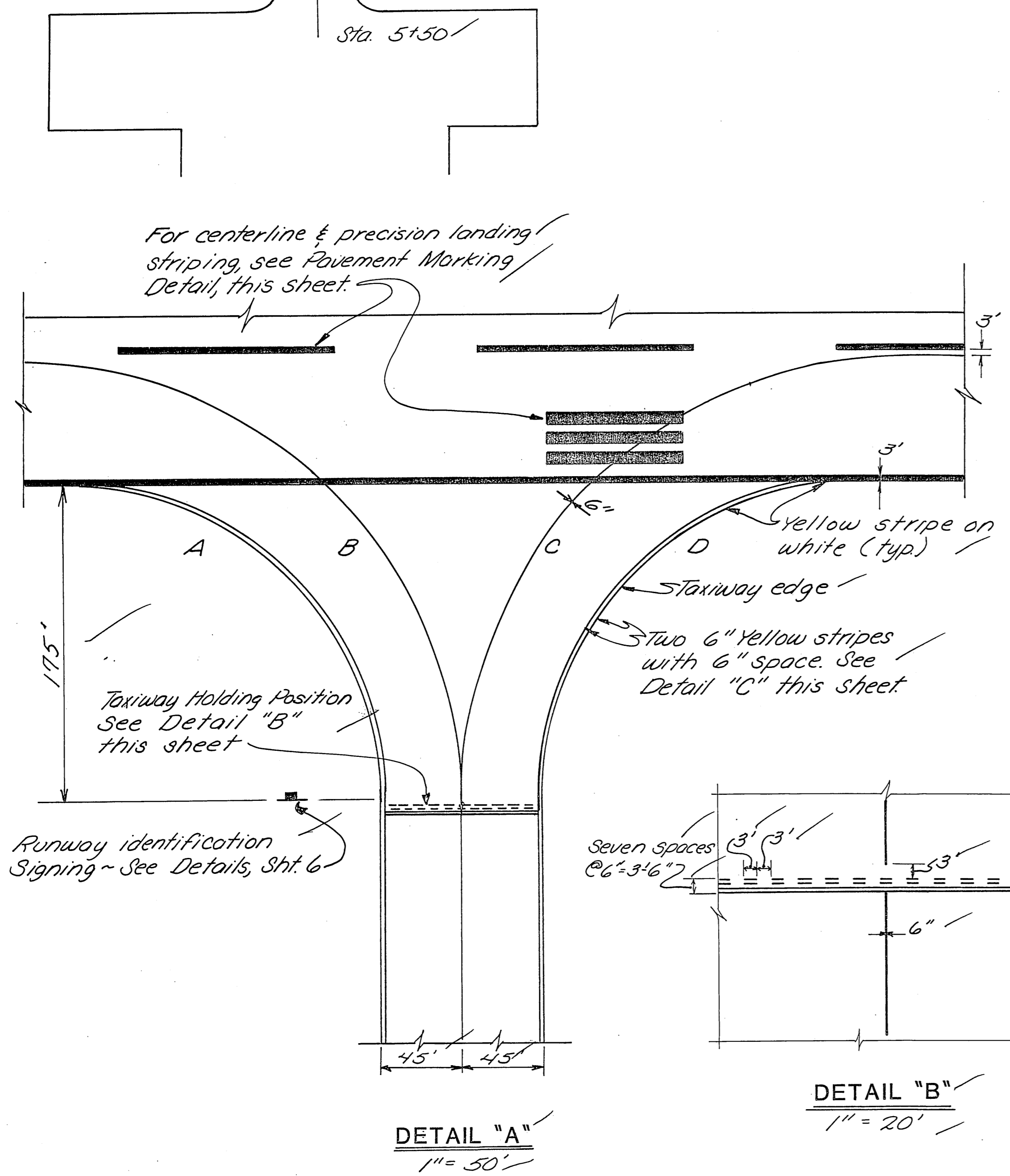


NOTE: For explanation of Radii letter designations A, B, C & D below, refer to taxiway striping curve data table this sheet.



PAVEMENT MARKING PLAN 1" = 200'

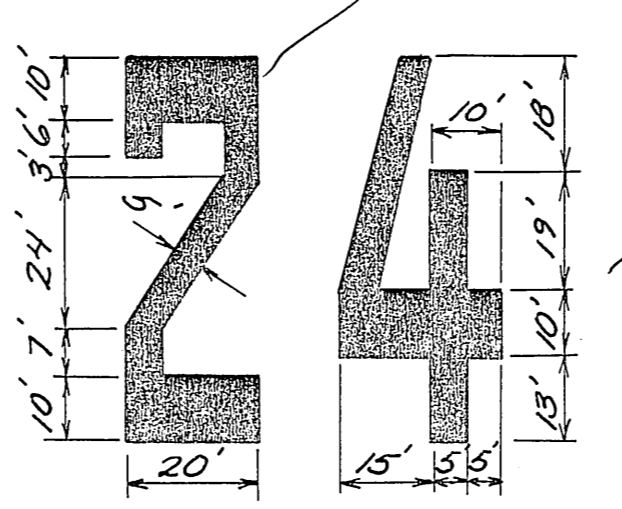
NOTE: Runway marking is Symmetrical about the midpoint of the runway.



PAVEMENT MARKING DETAIL 1" = 50'

CURVE	R	Δ	T	PC	PT
A	175'	90°	175'	R/W Sta. 6+150 75' RT	T/W Sta. 2+750 45' RT
B	245'	90°	245'	R/W Sta. 6+225 5' RT	T/W Sta. 2+150
C	245'	90°	245'	R/W Sta. 11+15 5' RT	T/W Sta. 2+150
D	175'	90°	175'	R/W Sta. 10+150 75' RT	T/W Sta. 2+750 45' RT

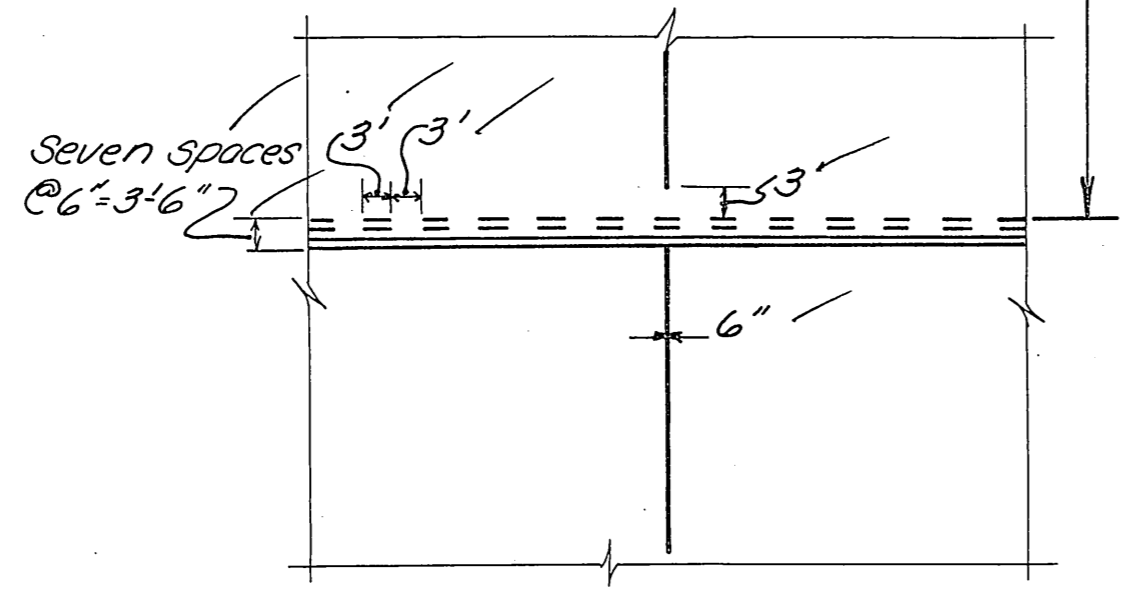
* See Detail "A" for locations.



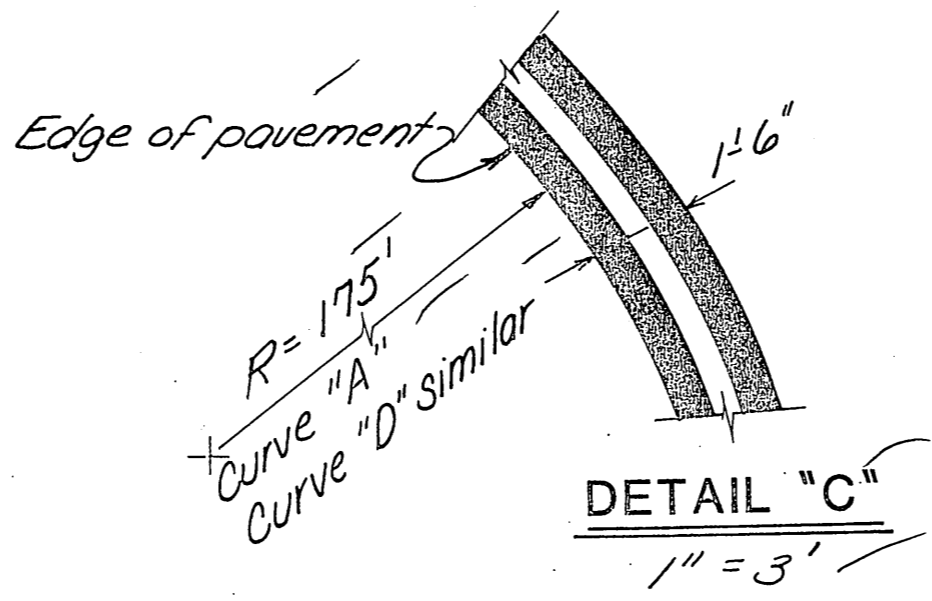
NUMERAL DETAIL 1" = 30'

GENERAL NOTES

- LAYOUT RUNWAY CENTERLINE SPACING FROM BOTH ENDS TOWARD CENTER.
- ALL MARKINGS SHALL BE ACCOMPLISHED USING AVIATION WHITE. TAXIWAY STRIPES SHALL BE AVIATION YELLOW.
- THE NUMERALS SHALL BE HORIZONTALLY SPACED 15 FEET APART.
- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE IN FEET AND INCHES.
- ALL CURVE RADII ARE MEASURED TO INSIDE EDGE OF STRIPE. IF CENTERLINE IS DESIRED ADD 1/2 OF STRIPE WIDTH TO RADIUS INDICATED AND ADJUST PC, PT, AND T ACCORDINGLY.



DETAIL "B" 1" = 20'



DETAIL "C" 1" = 3'

BY	DATE	CHANGE

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

PETERSBURG AIRPORT
69241-D-3188
Runway Marking Details

APPROVED BY: *Wallace K. Williams* 3-5-87
WALLACE K. WILLIAMS CHIEF OF DESIGN

APPROVED BY: *William L. Baumgartner*
WILLIAM L. BAUMGARTNER DESIGN CHIEF - GROUP B

SCALE: DESIGNED: *WH* DRAWN: *CSA* SHEET 5 OF 7
CHECKED: DATE:

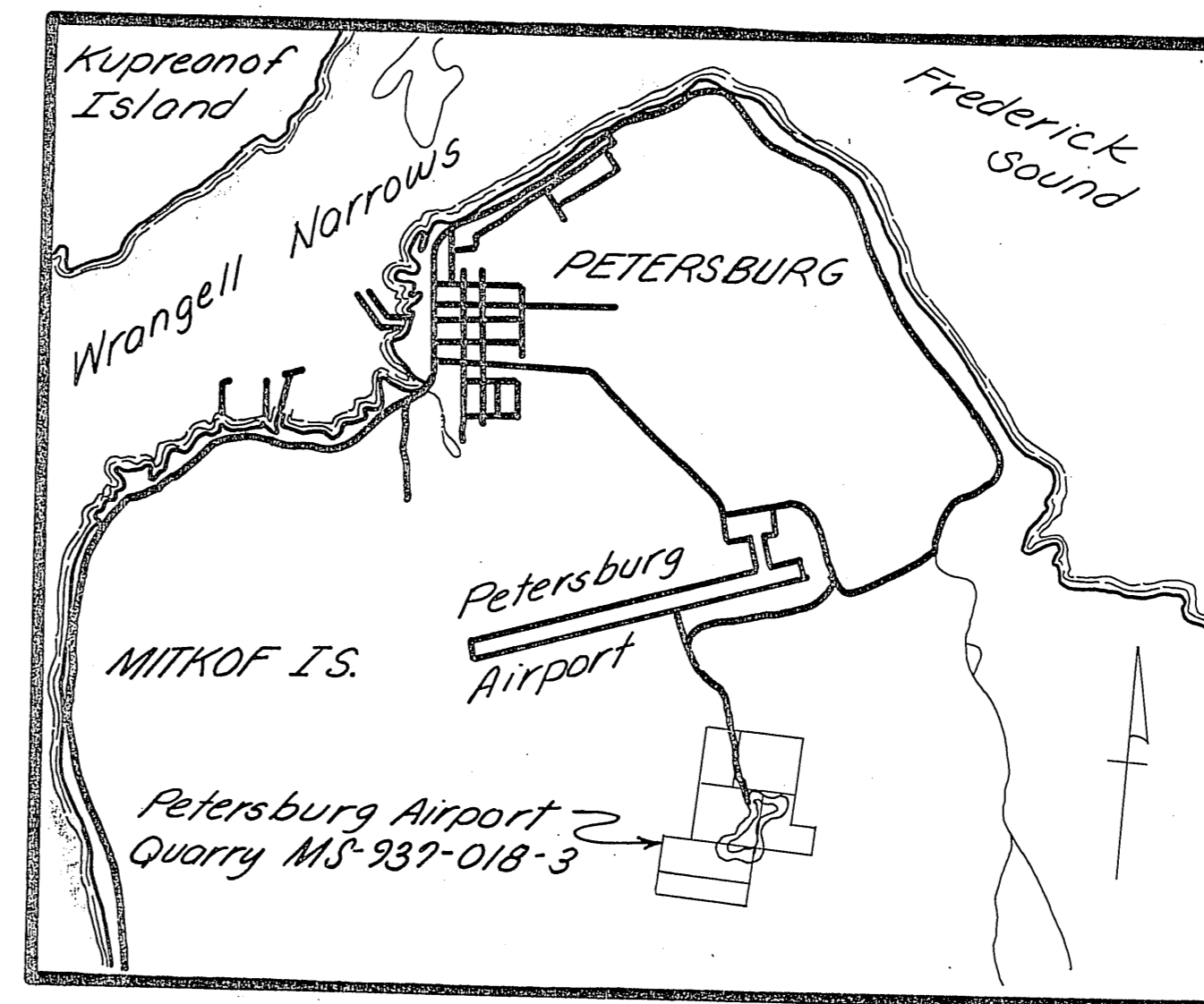
✓ *JWB* 12/1/87

GENERAL NOTES

1. All overburden & organic material encountered in this source shall be disposed of in the Waste Disposal Area.
2. The contractor is forewarned that the quality of the material in the quarry is variable both horizontally & vertically. It may be necessary to sort the rock within the quarry to obtain suitable material for the processed aggregate.
3. The contractor should satisfy for himself, areas of the quarry that will produce the required quality for specification materials.
4. Maximum bench height shall be 30', minimum bench width shall be 30'. All benches shall be accessible from the quarry floor.
5. Stripping of the existing overburden shall extend a minimum of 15' beyond top of quarry. The overburden slopes shall be 1 1/2:1.
6. Upon completion of work in the quarry, the quarry floor shall be left in such a manner so as not to impede the flow of water.
7. The existing gate shall be locked during non-working hours.
8. All work in the quarry shall be performed from the top to the bottom.
9. The contractor should be aware that areas of bench slope instability may exist within the quarry. Any slide or slippouts shall be removed & disposed of as directed by the engineer. This work shall be considered incidental.
10. All rocks larger than 12 in. shall be broken down & used in the work or stockpiled or removed to an approved disposal site.
11. The contractor shall submit a quarry operations plan to the engineer for approval.
12. The contractor must adhere to all stipulations & operating requirements as provided in Section 60 of the general contract provisions & special provisions.
13. The contractor shall be required to prepare an Air Traffic Plan for blasting within the Airport Quarry for approval by the F.A.A. & the Petersburg Flight Service.
14. The contractor shall notify the Forest Service concerning the Raven Roost Trail when blasting or other activities conflict with its use.
15. If the contractor wishes to use the Petersburg Airport Quarry, the following erosion & pollution controls shall be taken:
 - a. The grade & outlet ditch on the west side of the access road shall be lowered 3'. Two settlement basins, each 20 feet long, shall be constructed in the lowered ditch immediately downstream of the outlet from the quarry. The settlement basins shall be 6 feet wide at the bottom. The grade of the ditch shall then be daylighted to meet the existing ditch grade at a distance of 240 feet from the outlet. A log guard rail shall be placed on the shoulder for the length of lowered ditch. The logs shall have a minimum diameter of 12 inches.
 - b. A drainage ditch shall be constructed along the eastside of the access road from the outlet of the quarry a distance of 1200 feet downstream.
 - c. Replace the existing 12 inch concrete pipe under the access road with 80 linear feet of 24 inch C.M.P.

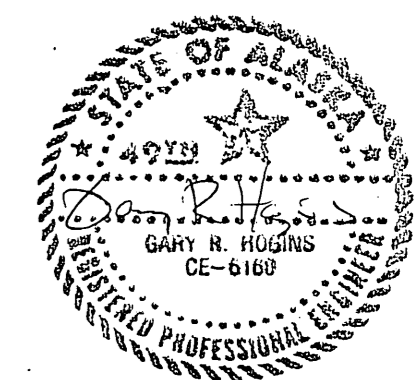
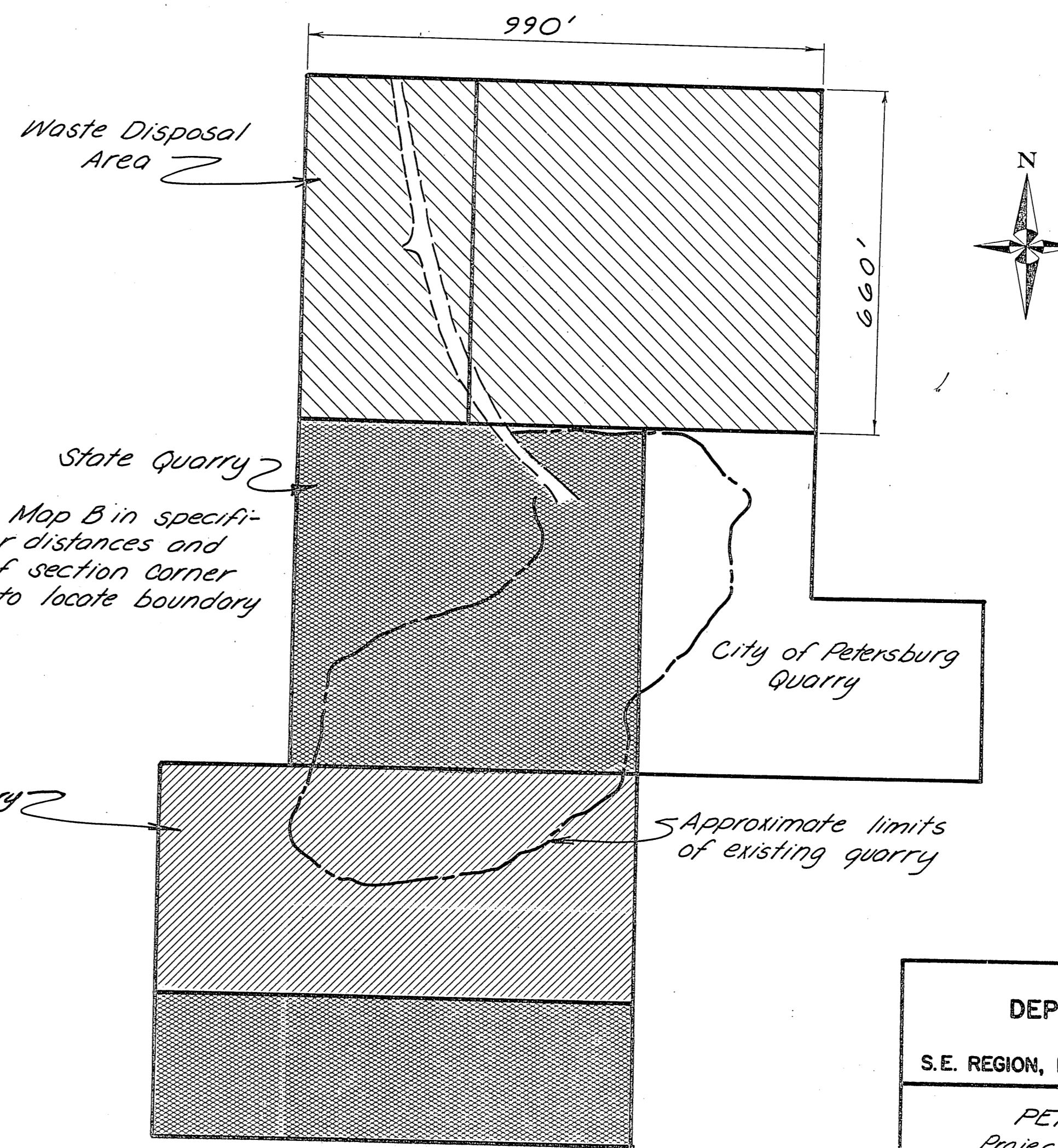
16. Labor and materials for items of work listed above shall be considered incidental to other items of work and shall not be measured for payment or paid for directly. All dimensions listed above are approximate and are subject to revisions by the engineer. The contractor shall not begin work in the quarry until the erosion & pollution control measures are completed & approved by the engineer.
17. The erosion & pollution control measures shall be completed prior to any development or material removal within this quarry.

STATE FURNISHED MATERIALS SOURCE



VICINITY MAP

NOT USED



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

PETERSBURG AIRPORT
 Project No. 69241-D-3188
 State Furnished Materials Source

APPROVED BY: <i>Wallace K. Williams</i> 3-5-87 WALLACE K. WILLIAMS CHIEF OF DESIGN										
APPROVED BY: <i>W.L. Baumgartner</i> WILLIAM L. BAUMGARTNER DESIGN CHIEF - GROUP B										
SCALE:	CHECKED: <i>WH</i> DATE: _____ SHEET 7 of 7									
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BY	DATE	CHANGE								
REVISIONS										

✓ GWP 12/1/87