

State of Alaska

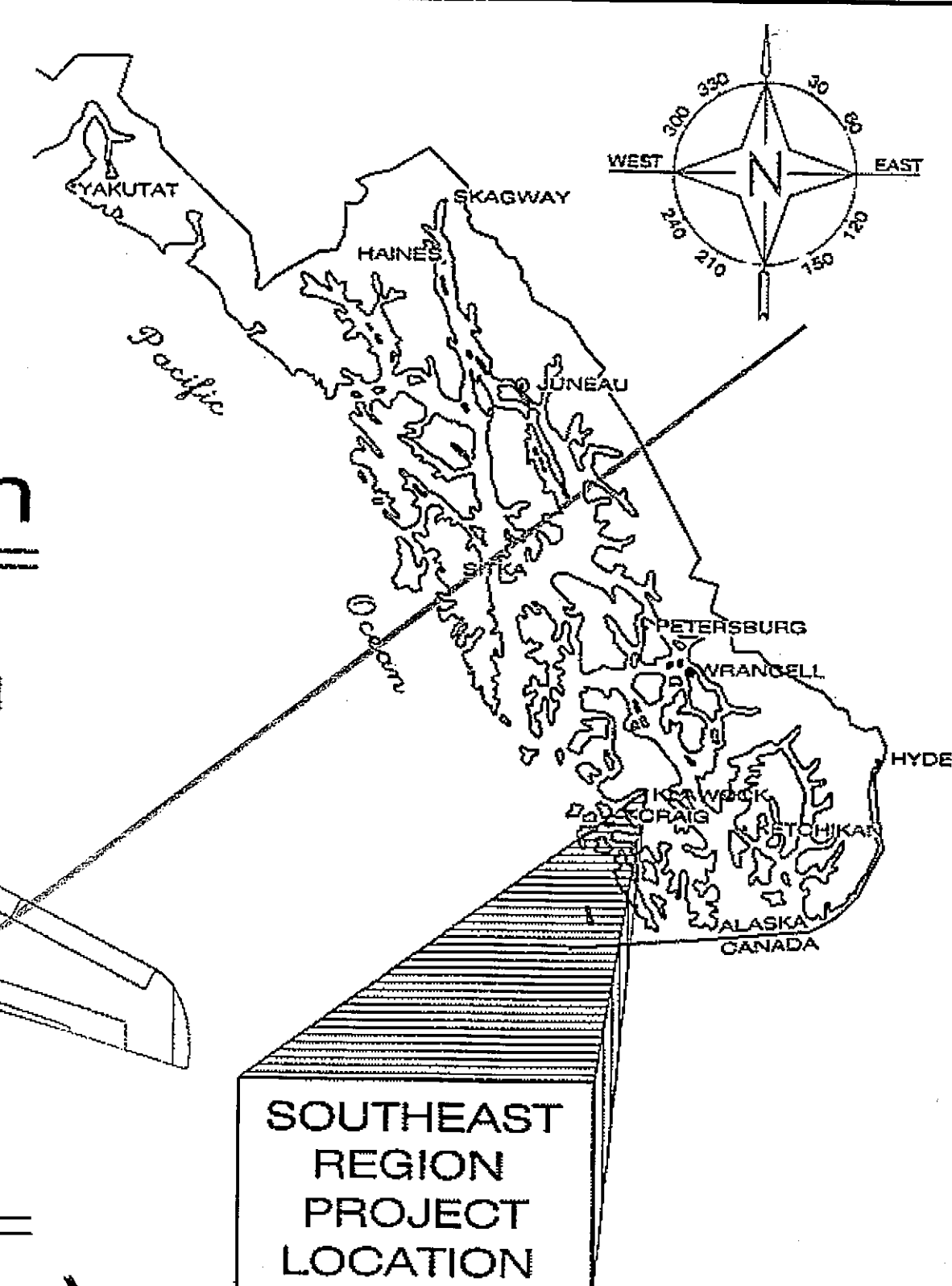
Department of Transportation and Public Facilities

Design and Engineering Services Division-S.E. Region

KLAWOCK AIRPORT

RUNWAY, TAXIWAY AND APRON IMPROVEMENTS

PROJECT NO. 68164
DTFAWA-06-A-00013



The Plans are modified as follows:

ADD. 3

Sheets A1, A3, B1, B2, B3, B4, C1, F1, F2, F3 and K3. *Delete and replace with the attached replacement sheets: A1, A3, B1, B2, B3, B4, C1, C2, F1, F2, F3 and K3 identified as Attachment 5 to this Addendum. Note that there is an additional sheet and that there are now 28 total sheets.*

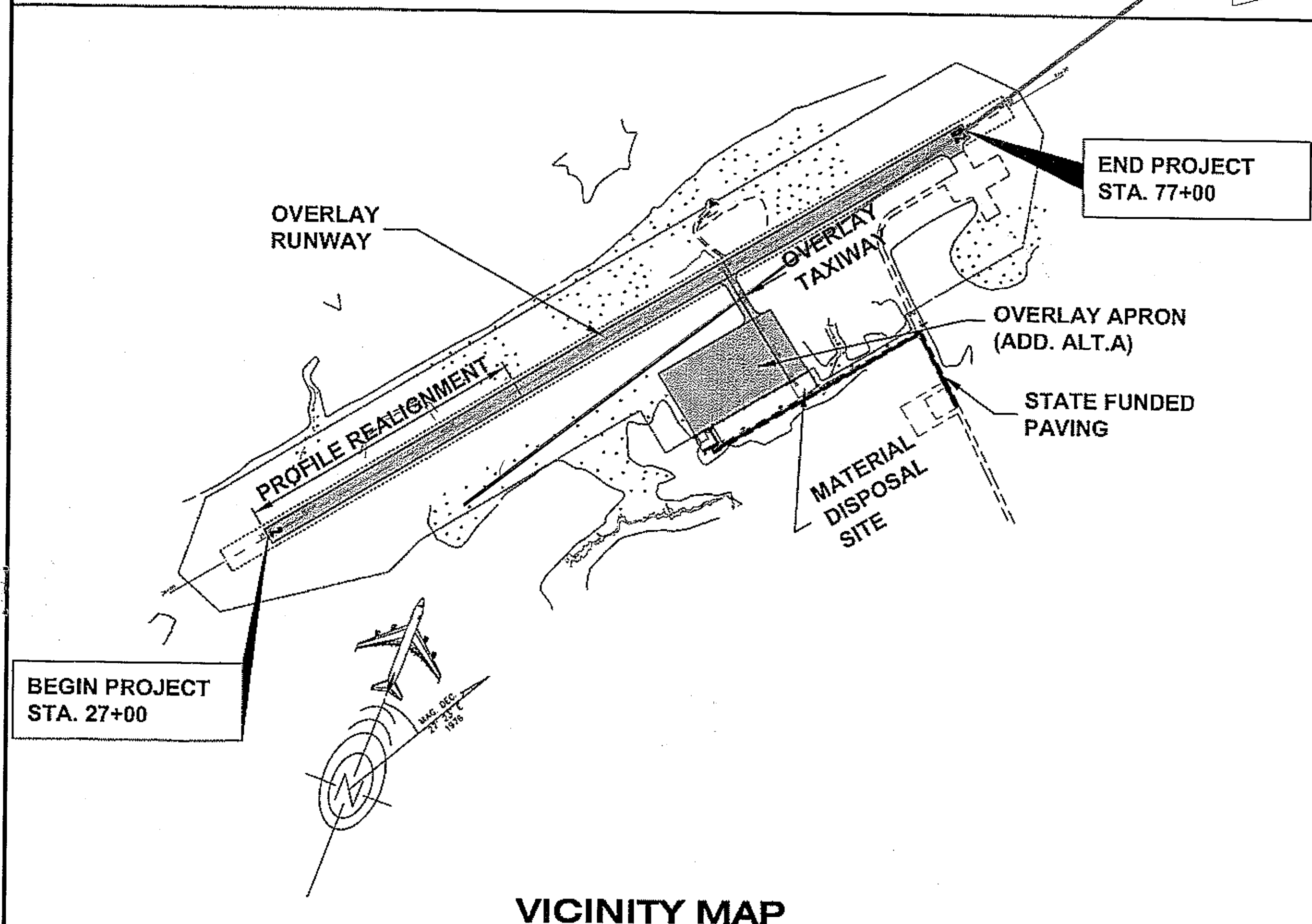
DESIGN DESIGNATION

AIRPORT REFERENCE CODE..... B-11
AIRPORT TYPE..... COMMERCIAL SERVICE
RUNWAY CATEGORY..... COMMUNITY
AIRPORT REFERENCE POINT..... Latitude N 55° 34' 45.24"
(ARP Coordinates - NAD '83) Longitude W 133° 04' 33.59"
RUNWAY 02 / 20 DIMENSION..... 5000 FT x 100 FT
RUNWAY 02 / 20 ELEVATION..... 40/80 FT (MSL)
RSA DIMENSION..... 5600 FT X 150 FT
RUNWAY/TAXIWAY SURFACE..... ASPHALT CONCRETE
RUNWAY LIGHTING..... MEDIUM INTENSITY RUNWAY LIGHTING (MIRL)
TAXIWAY LIGHTING..... MEDIUM INTENSITY TAXIWAY LIGHTING (MITL)
FAA APPROACH AIDS..... NON-PRECISION

THE FOLLOWING HIGHWAY STANDARD DRAWINGS APPLY TO THIS PROJECT:

A-1
M-13.01
M-16.01

E-13.0



VICINITY MAP

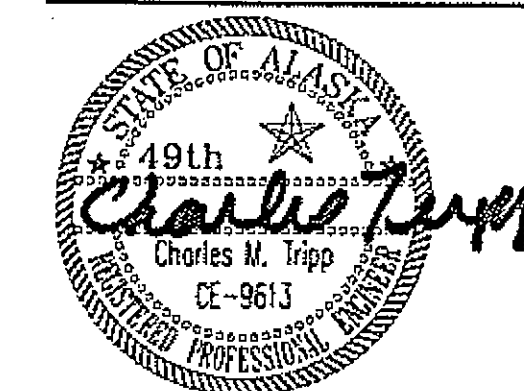
INDEX

SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	SURVEY CONTROL PLAN
A3	PROJECT LAYOUT PLAN
B1-B4	TYPICAL SECTIONS
C1	ESTIMATE OF QUANTITIES & SUMMARIES
F1-F3	PLAN & PROFILES
J1-J5	SAFETY PLAN DETAILS
K1-K6	ELECTRICAL & LIGHTING
L1-L2	MARKING LAYOUT PLAN & DETAILS
R1	RIGHT OF WAY PLAN
T1-T2	EROSION & SEDIMENT CONTROL PLAN & DETAILS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *Charles M. Tripp* Date 5/17/07

PATH: Q:\Klw\68164\PlanSet\A1_Title Sheet.dwg
Thu, 17/May/07 01:17PM cmtripp

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-S.E. REGION



APPROVED: *Jack D. Beedle* 5/17/07
JACK D. BEEDLE, P.E.
REGIONAL PRECONSTRUCTION ENGINEER DATE

APPROVED: *Andy Hughes* 5-17-07
MALCOLM A. MENZIES, P.E. L.S. 702 DATE
DIRECTOR, S.E. REGION

CERTIFIED TRUE & CORRECT AS-BUILT OF ACTUAL FIELD CONDITION:

CONSTRUCTION PROJECT MANAGER DATE

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	DTFAWR-06-A-00013	2007	A1	27

State of Alaska

Department of Transportation and Public Facilities

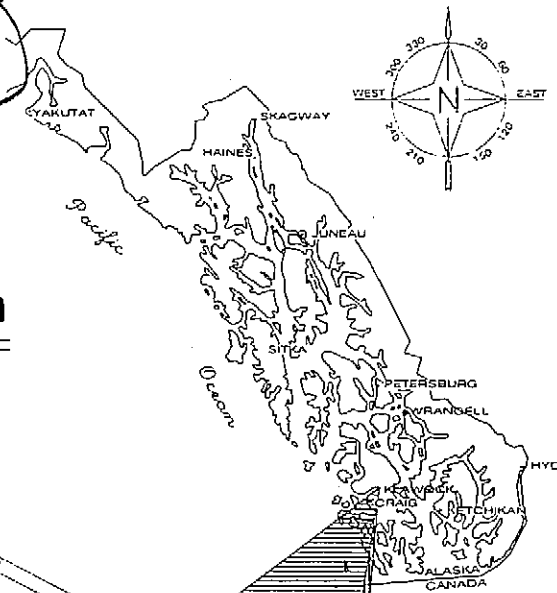
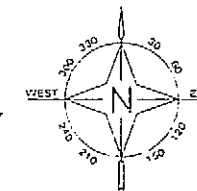
Design and Engineering Services Division-S.E. Region

KLAWOCK AIRPORT

RUNWAY, TAXIWAY AND APRON IMPROVEMENTS

PROJECT NO. 68164
DTFAWA-06-A-00013

Addendum No. 3
Attachment No. 5



SOUTHEAST
REGION
PROJECT
LOCATION

INDEX

SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	SURVEY CONTROL PLAN
A3	PROJECT LAYOUT PLAN
B1-B4	TYPICAL SECTIONS
C1-C2	ESTIMATE OF QUANTITIES & SUMMARIES
F1-F3	PLAN & PROFILES
J1-J5	SAFETY PLAN DETAILS
K1-K6	ELECTRICAL & LIGHTING
L1-L2	MARKING LAYOUT PLAN & DETAILS
R1	RIGHT OF WAY PLAN
T1-T2	EROSION & SEDIMENT CONTROL PLAN & DETAILS

AS-BUILT PLANS

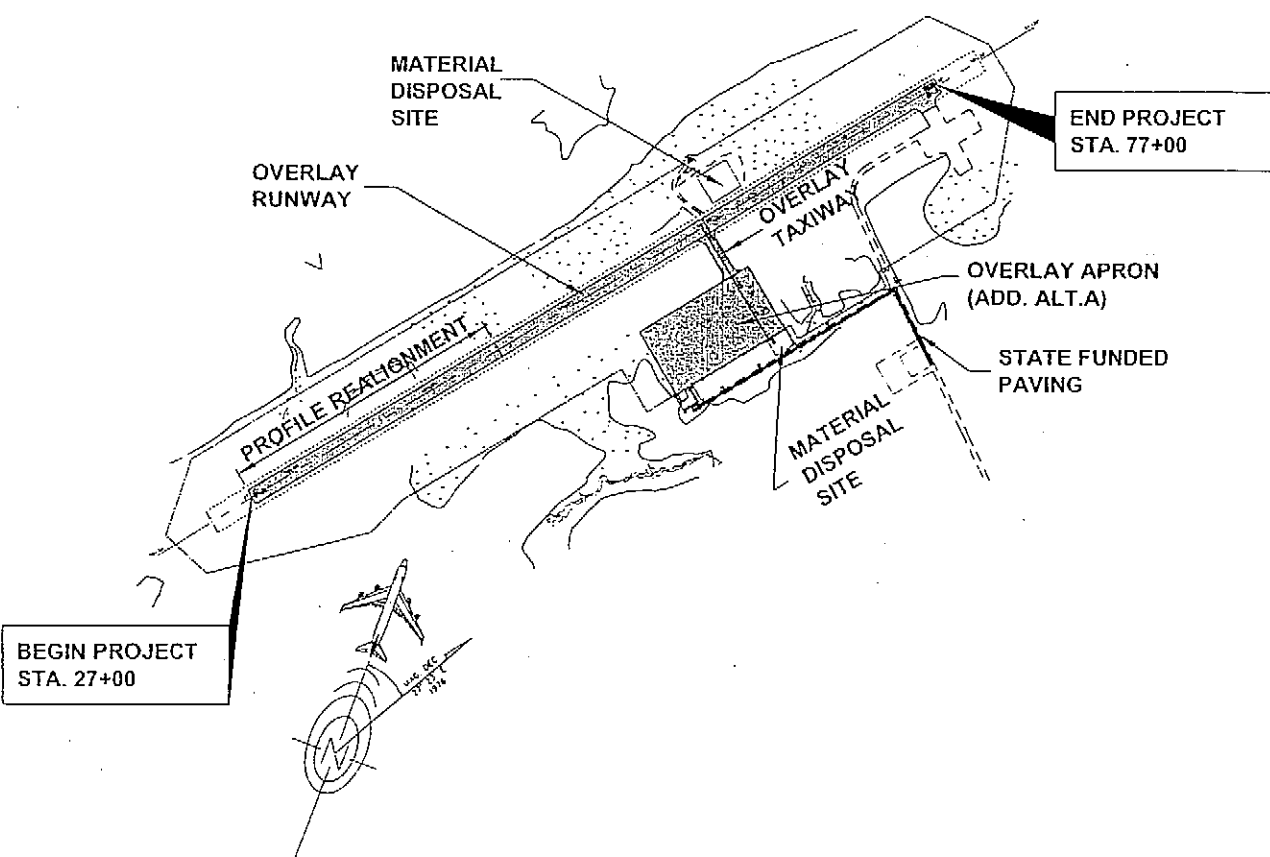
CONTRACTOR: AGGREGATE CONSTRUCTION, INC.
PROJECT ENGINEER: STEVE MUELKE
BEGIN DATE: APRIL 10, 2008
END DATE: NOVEMBER 22, 2008
TOTAL CONTRACT AMOUNT: \$3,802,148.56

DESIGN DESIGNATION

AIRPORT REFERENCE CODE.....	B-11
AIRPORT TYPE.....	COMMERCIAL SERVICE
RUNWAY CATEGORY.....	COMMUNITY
AIRPORT REFERENCE POINT..... (ARP Coordinates - NAD '83)	Latitude N 55° 34' 45.24" Longitude W 133° 04' 33.59"
RUNWAY 02 / 20 DIMENSION.....	5000 FT x 100 FT
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RUNWAY/TAXIWAY SURFACE.....	ASPHALT CONCRETE
RUNWAY LIGHTING.....	MEDIUM INTENSITY RUNWAY LIGHTING (MIRL)
TAXIWAY LIGHTING.....	MEDIUM INTENSITY TAXIWAY LIGHTING (MITL)
FAA APPROACH AIDS.....	NON-PRECISION

THE FOLLOWING HIGHWAY STANDARD DRAWINGS APPLY TO THIS PROJECT:

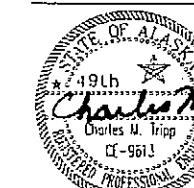
A-1 E-13.0
M-13.01
M-16.01



VICINITY MAP

PATH: O:\Klw\68164\Planset\A1_Title Sheet.dwg
Thu, 28/Jun/07 07:59AM brelas

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-S.E. REGION



APPROVED: *Jack D. Beedle* 6/28/07
JACK D. BEEDLE, P.E.
REGIONAL PRECONSTRUCTION ENGINEER DATE

APPROVED: *Malcolm A. Menzies* 6/28/07
MALCOLM A. MENZIES, P.E. L.S.
DIRECTOR, S.E. REGION DME

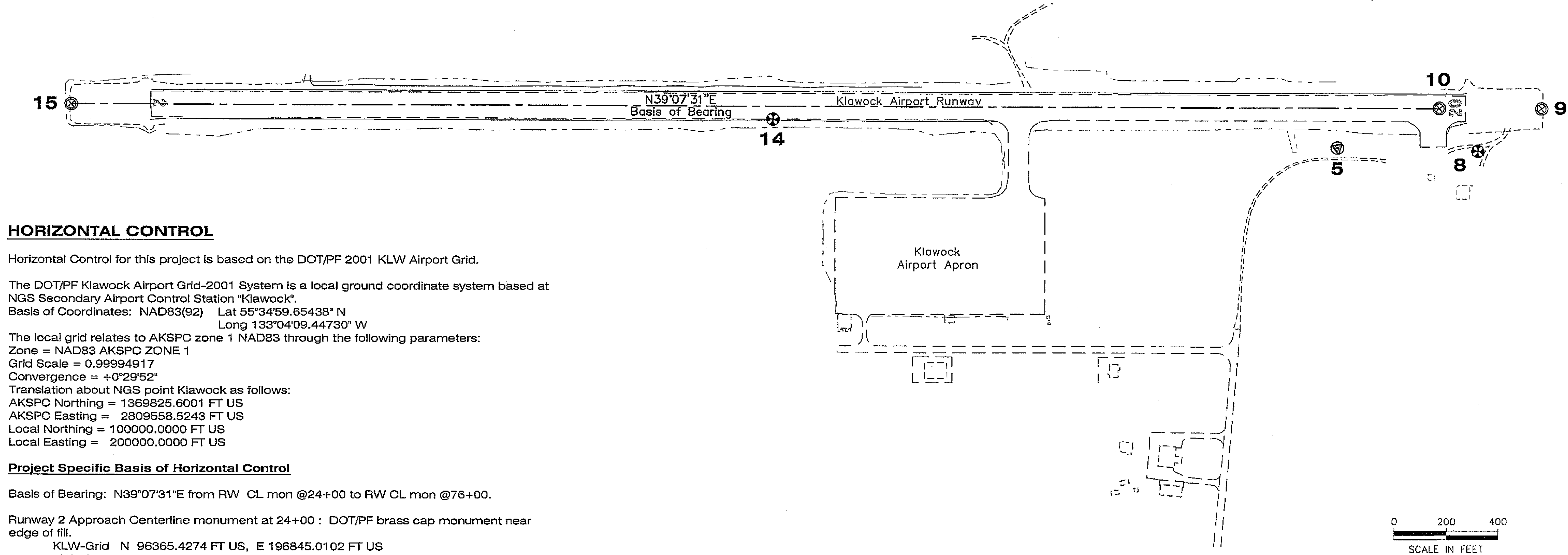
CERTIFIED TRUE & CORRECT AS-BUILT OF ACTUAL FIELD CONDITION:

CONSTRUCTION PROJECT MANAGER DATE

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	DTFAWR-06-A-00013	2007	A1	28

CONTROL MONUMENT TABLE								
POINT	LOCAL NORTH	LOCAL EAST	ELEVATION (FT MSL)	DESCRIPTION	LATITUDE	LONGITUDE	AKSPC NORTH	AKSPC EAST
5	100000.0000	200000.0000	69.76	NGS_KLAWOCK_GPS_BC/1990	55.34596544	-133.04094473	1369825.6001	2809558.5243
8	100410.6984	200348.9918	76.59	BLM_BC_RM1_GEO_STA/1974	55.35037017	-133.04033740	1370239.2939	2809903.9173
9	100709.7025	200378.7614	75.21	CL_MOH_DOT_80+00	55.35066486	-133.04028553	1370538.5302	2809931.0867
10	100399.4185	200126.3092	79.25	CL_MON_ARC_76+00	55.35035908	-133.04072488	1370226.0805	2809681.3524
13	99158.1370	199116.6732	59.15	CL_MON_DOT	55.34513578	-133.04248177	1368976.1379	2808682.5893
14	98400.6087	198565.6099	49.12	BLM_ALCAP_AZ_MRK_GEO_STA/1974	55.34438920	-133.04344056	1368213.8895	2808138.1566
15	96365.4274	196845.0102	36.67	CL_MON_DOT_24+00	55.34238328	-133.05043364	1366163.9410	2806435.3886

ALL UNITS ARE U.S. SURVEY FEET
LATITUDE AND LONGITUDE ARE NAD83 BASED ON NGS BRASS CAP "KLAWOCK 1990"
FORMAT IS DMS PACKED, 58.34596544 IS N 58° 34' 59.6544"
ELEVATIONS ARE MSL BASED ON BLM BRASS CAP "RM1-GEO STATION 1974"



HORIZONTAL CONTROL

Horizontal Control for this project is based on the DOT/PF 2001 KLW Airport Grid.

The DOT/PF Klawock Airport Grid-2001 System is a local ground coordinate system based at NGS Secondary Airport Control Station "Klawock".
Basis of Coordinates: NAD83(92) Lat 55°34'59.65438" N
Long 133°04'09.44730" W

The local grid relates to AKSPC zone 1 NAD83 through the following parameters:
Zone = NAD83 AKSPC ZONE 1
Grid Scale = 0.99994917
Convergence = +0°29'52"

Translation about NGS point Klawock as follows:
AKSPC Northing = 1369825.6001 FT US
AKSPC Easting = 2809558.5243 FT US
Local Northing = 100000.0000 FT US
Local Easting = 200000.0000 FT US

Project Specific Basis of Horizontal Control

Basis of Bearing: N39°07'31"E from RW CL mon @24+00 to RW CL mon @76+00.

Runway 2 Approach Centerline monument at 24+00 : DOT/PF brass cap monument near edge of fill.
KLW-Grid N 96365.4274 FT US, E 196845.0102 FT US
AKSPC N 1366163.9410 FT US, E 2806435.3886 FT US

Runway 20 Approach Centerline monument at 76+00 : DOT/PF brass cap monument in pavement adjacent to vehicle access approach.
KLW-Grid N 100399.4185 FT US, E 200126.3092 FT US
AKSPC N 1370226.0805 FT US, E 2809681.3524 FT US

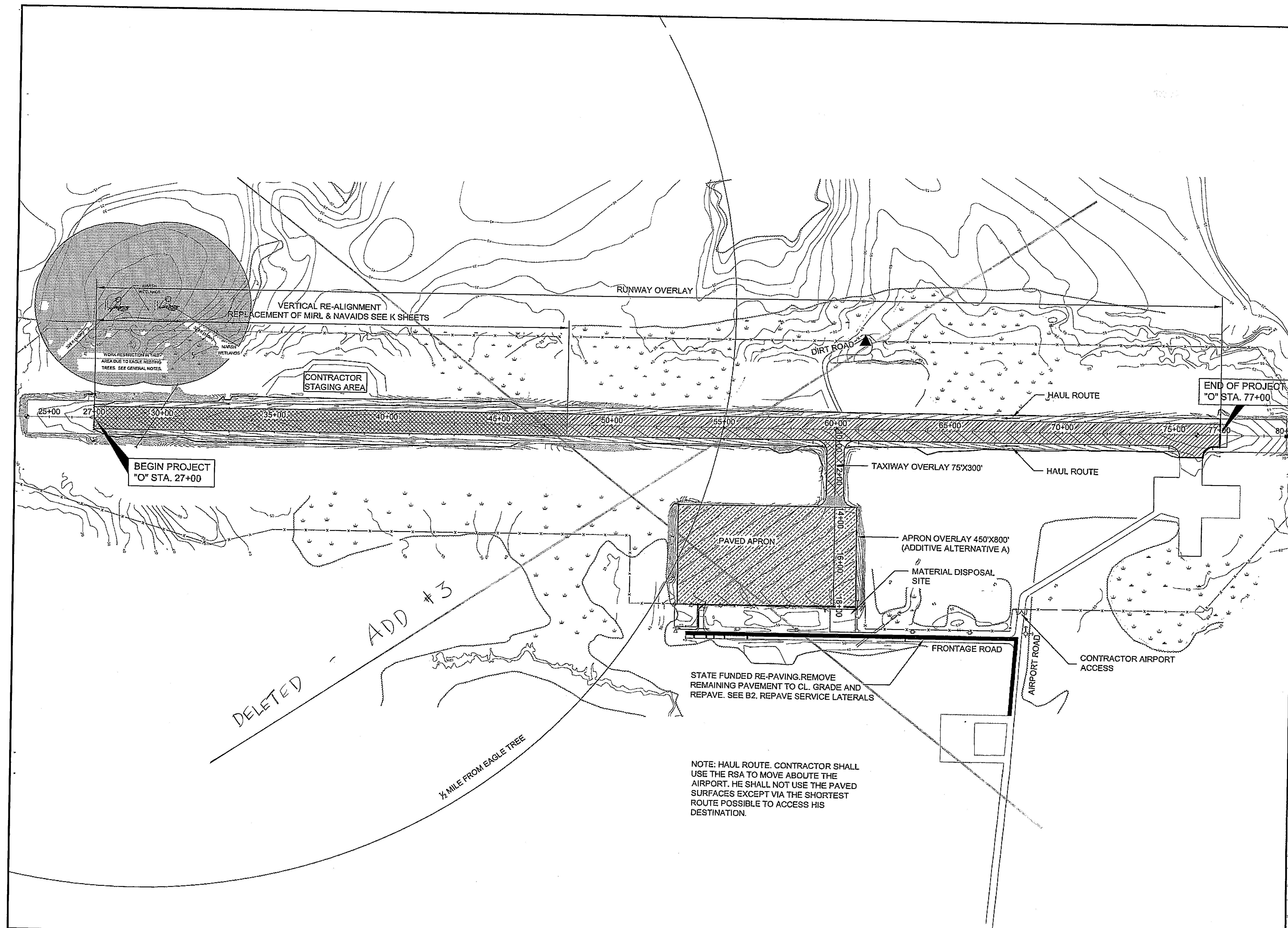
VERTICAL CONTROL

The Vertical Datum for KLW Grid-2001 is Mean Sea Level based at RM1 to Geo Station 1974. This BLM Brass Cap is located at the base of the windsock on the RW20 approach. Record elevation is 76.59' above Mean Sea Level.

The Project Specific Basis of Vertical Control is Runway Centerline Monument at 76+00 having an accepted elevation of 79.25' above Mean Sea Level.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *[Signature]* Date 5/10

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS			
5/17/07 STATE OF ALASKA 49 TH Timothy Reed No. 10613 REGISTERED PROFESSIONAL LAND SURVEYOR		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION KLAWOCK AIRPORT RUNWAY, TAXIWAY & APRON IMPROVEMENTS PROJECT NO. 68164	
DESIGNED BY: T. REED DRAWN BY: R. SNYDER PATH: Q:\Klw\68164\Plans\A2_Control Plan.dwg TAB: A2 Thu, 17/May/07 12:14PM brellos		SURVEY CONTROL PLAN	
REVISIONS NO. DATE DESCRIPTION		PROJECT DESIGNATION DTFAWA- 06-A-00013	YEAR 2007
		SHEET NO. A2	TOTAL SHEETS 2728



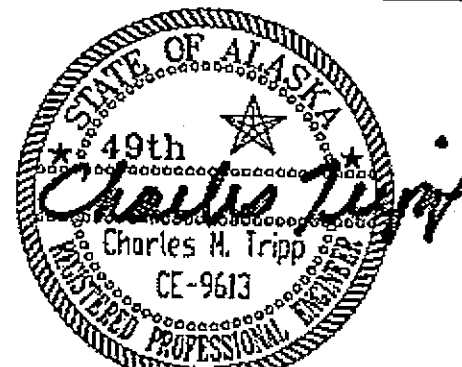
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 ATTACHMENT NUMBER
 RECORD OF REVISIONS

No.	DATE	DESCRIPTION

Klawock Airport
 Profile Improvements and Overlay
 Project No. 68164

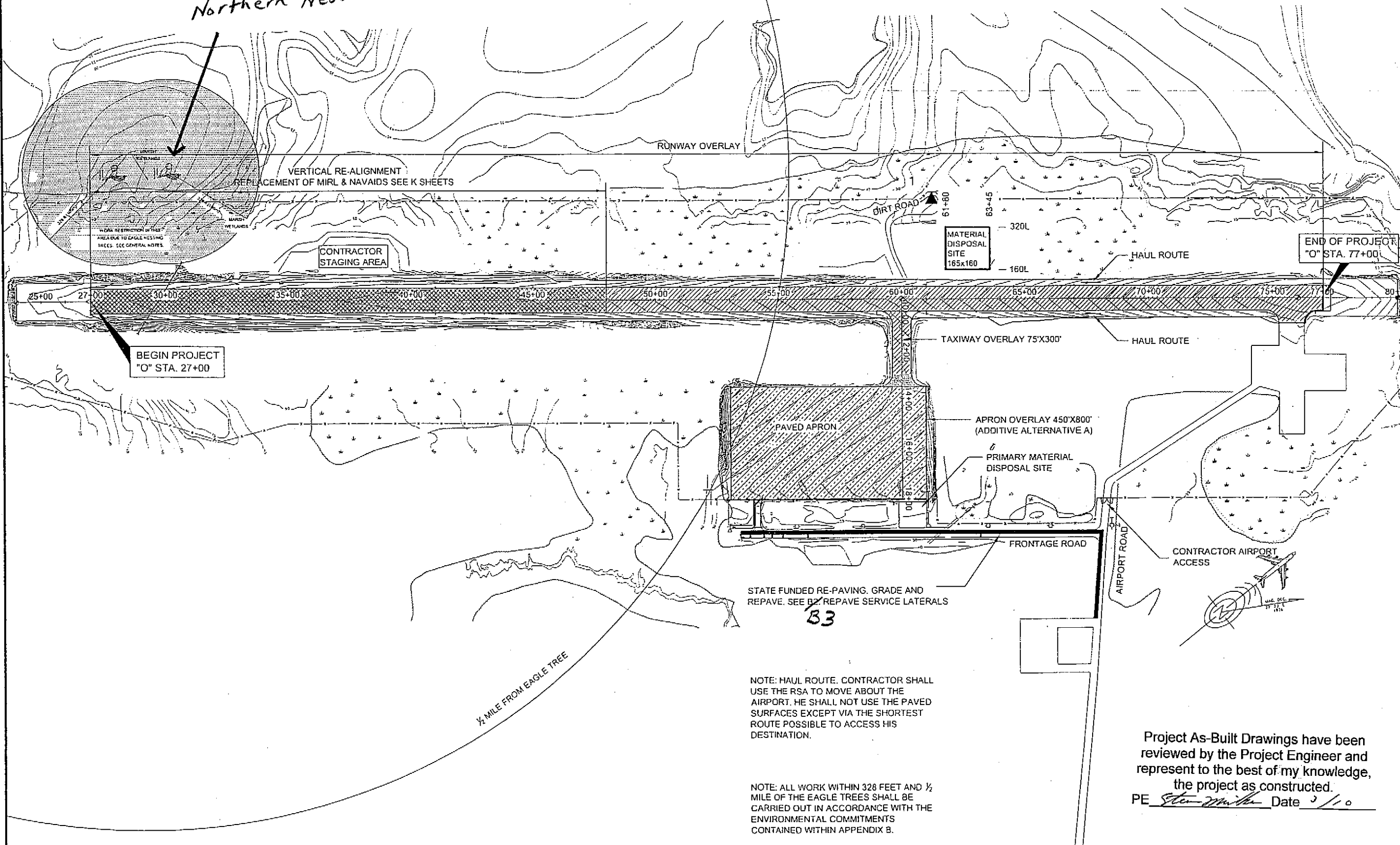
 PROJECT LAYOUT PLAN

PLAN LEGEND
 CHECKED BY: C TRIPP

 DESIGNED BY: C TRIPP
 DRAWN BY: BWB
 STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 DESIGN & ENGINEERING SERVICES
 DIVISION-SOUTHEAST REGION
 Klawock Airport Runway, Taxiway and Apron Improvements
 PROJECT #68164
 PROJECT LAYOUT PLAN
 PROJECT DESIGNATION
 DTFWA-06-A-00013

STATE	YEAR
ALASKA	2007
SHEET NUMBER	TOTAL SHEETS
A3	27

ADD BY ADD. # 3

Didn't find
Northern Nest



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No. DATE DESCRIPTION

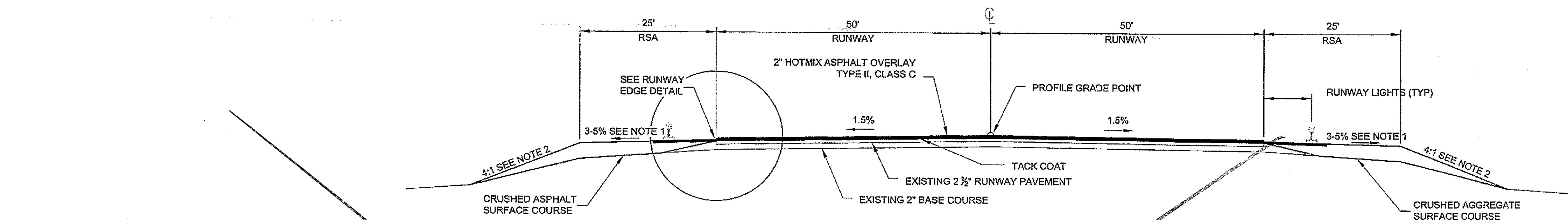
KLAWOCK AIRPORT
PROFILE IMPROVEMENTS AND OVERLAY
PROJECT No. 68164

PROJECT LAYOUT PLAN

PLAN LEGEND
CHECKED BY: C TRIPP

DESIGNED BY: C TRIPP
DRAWN BY: BWB
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION - SOUTHEAST REGION
KLAWOCK AIRPORT RUNWAY, TAXIWAY AND APRON IMPROVEMENTS
PROJECT #68164
PROJECT LAYOUT PLAN
PROJECT DESIGNATION
DTFAWA-06-A-00013
STATE ALASKA
YEAR 2007
SHEET NUMBER A3 TOTAL SHEETS 28

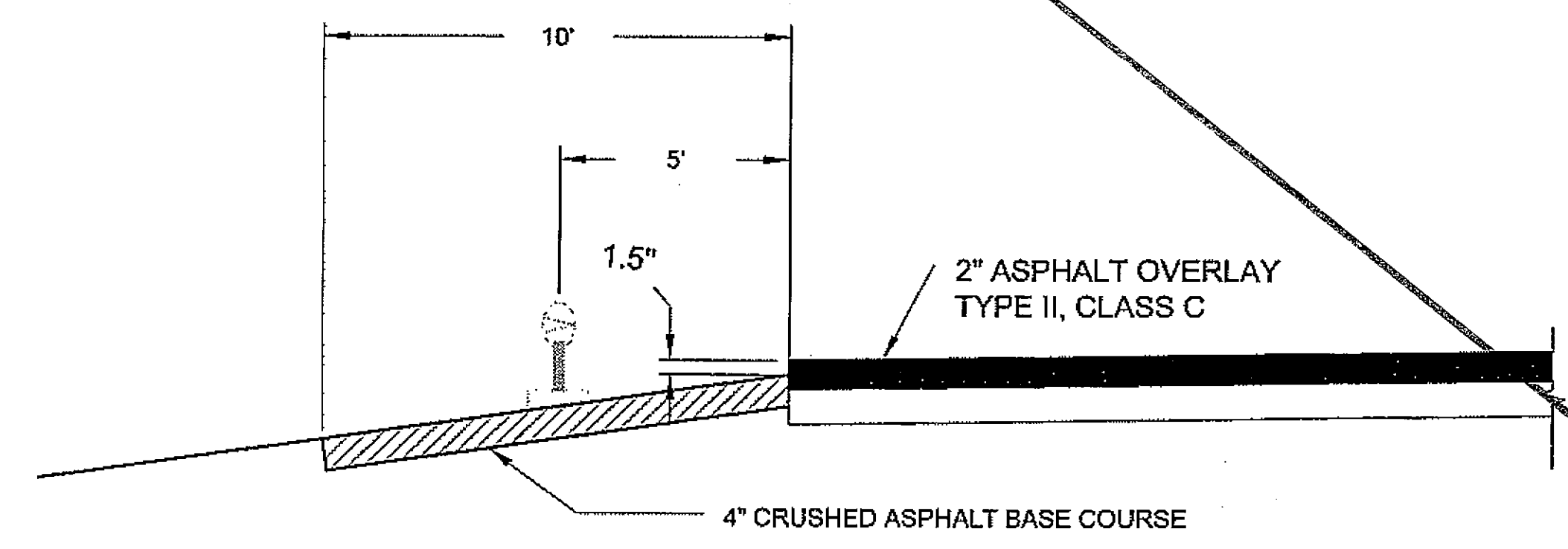
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



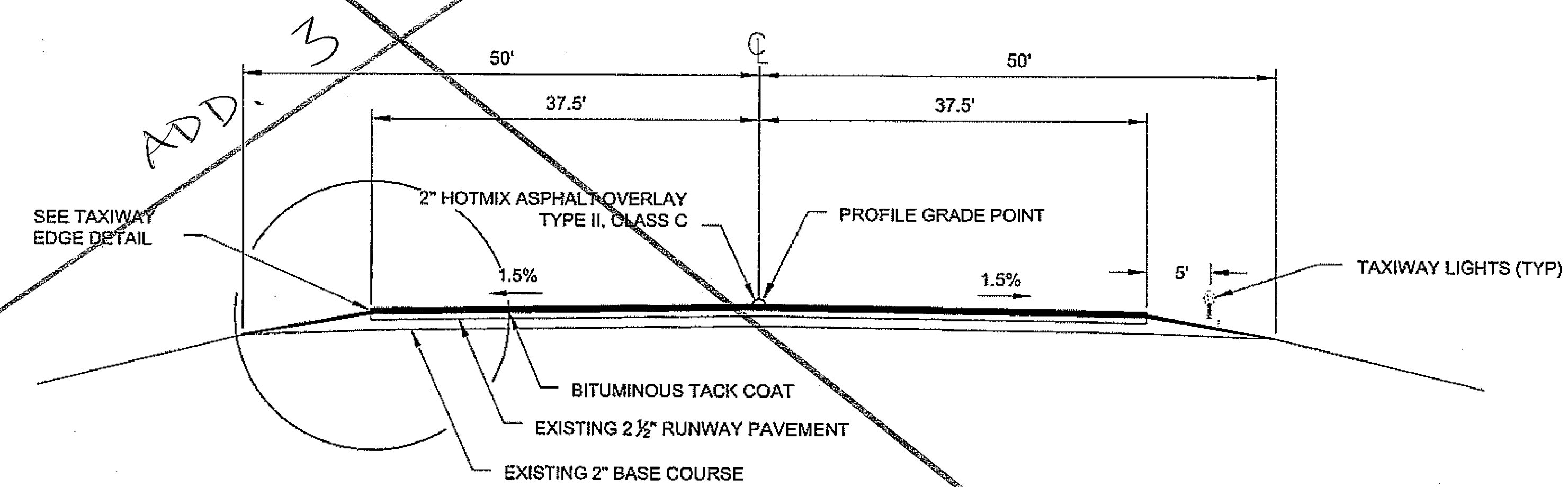
RUNWAY TYPICAL OVERLAY SECTION

STA. 48+00 to 77+00

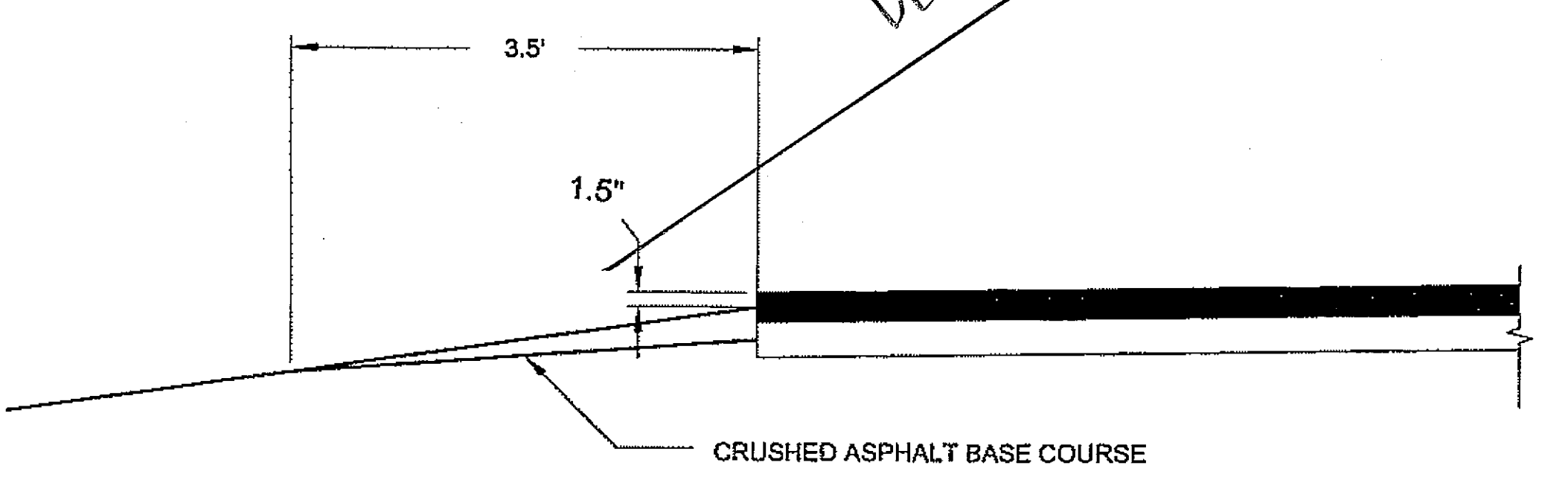
- NOTES:
1. USE 5% RSA SIDESLOPE UNLESS IT RESULTS IN A CUT AT EDGE OF RSA.
 2. SEE FILL SLOPE EXCEPTION DETAIL SHEET B2.



RUNWAY EDGE DETAIL

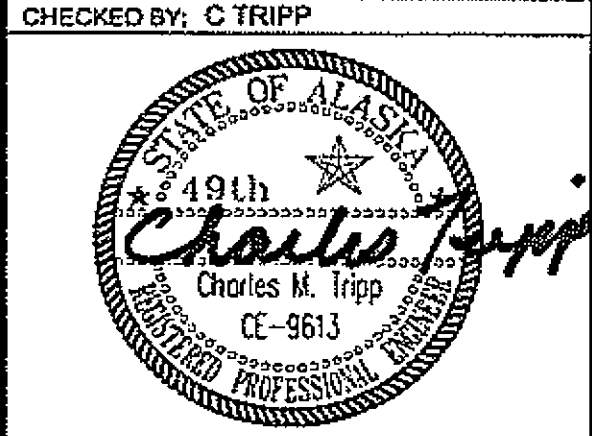


TAXIWAY OVERLAY TYPICAL SECTION



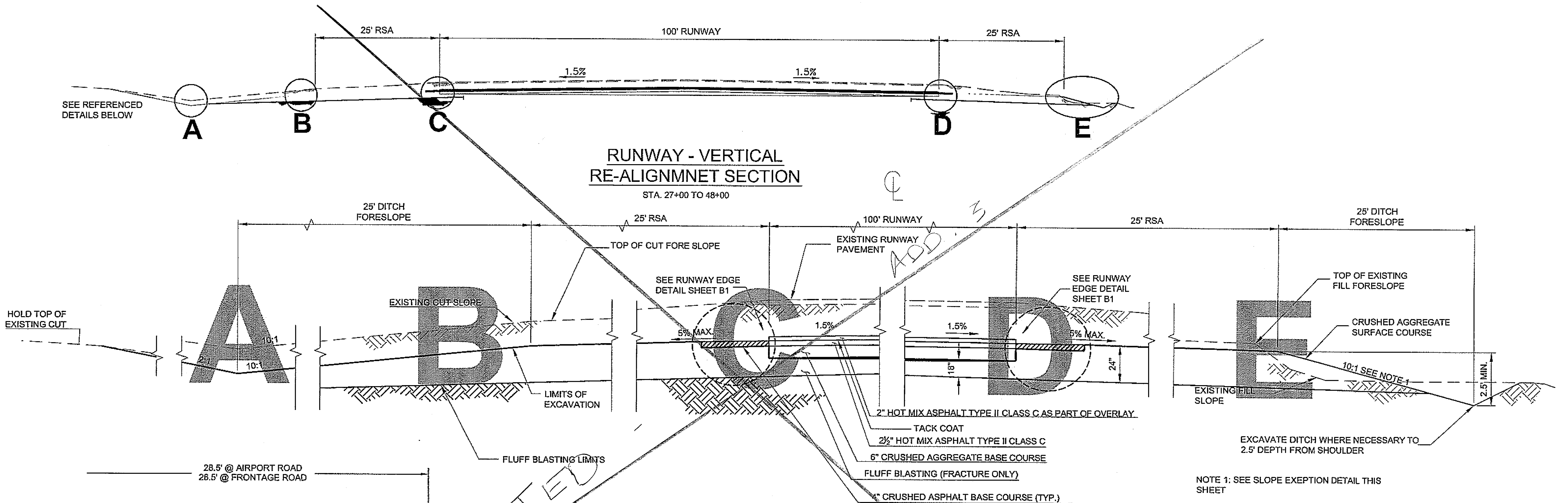
TAXIWAY EDGE DETAIL

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



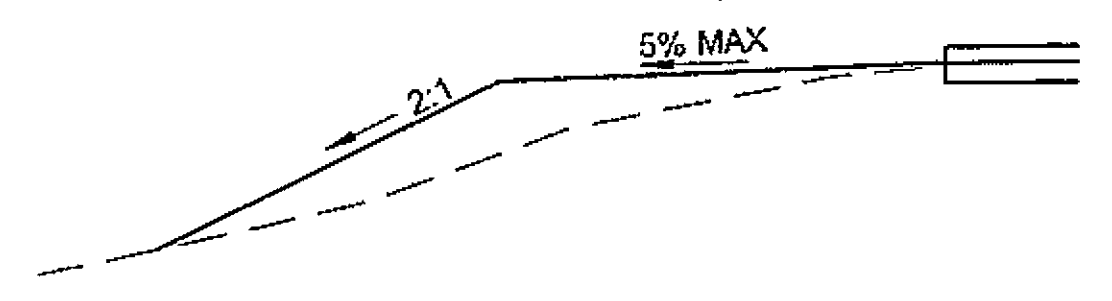
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION
**KLAWOCK AIRPORT RUNWAY,
TAXIWAY AND APRON
IMPROVEMENTS
PROJECT No. 68164
"O" Line
Typical Sections**

DESIGNED BY: C TRIPP				
DRAWN BY: L. ROBERTSON				
PATH: O:\Klw\68164\PlanSet\B_Typical_Sections.dwg				
TAB: Thu, 17/May/07 12:17PM				
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.
NO.	DATE	DESCRIPTION		
			DTFAWA-06-A-00013	2007
				B1
				27



VERTICAL RE-ALIGNMENT DETAILS
STA. 27+00 TO 48+00

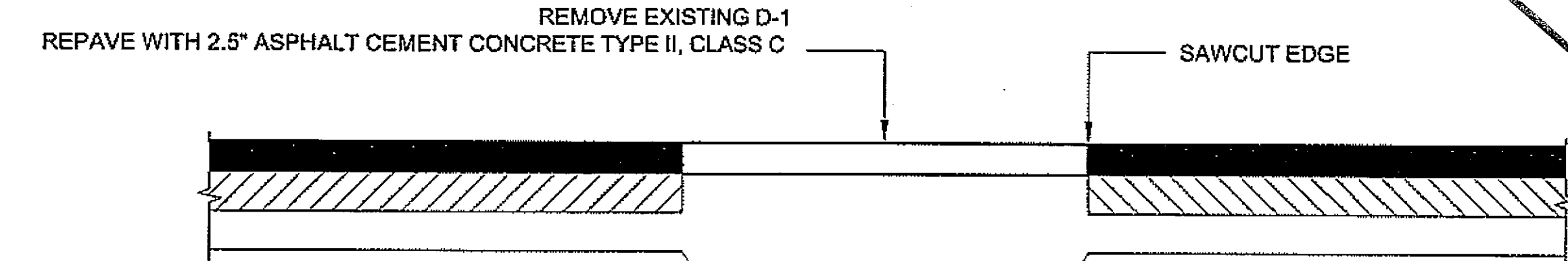
NOTE:
THE PURPOSE OF THE FILL SLOPE EXEPTION DETAIL IS TO AVOID PLACING ANY FILL IN WETLANDS. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF HE FINDS THIS DETAIL WILL STILL RESULT IN FILL BEING PLACED IN WETLANDS



FILL SLOPE EXEPTION DETAIL

"O" STA. 46+00 TO 51+00 BOTH SIDES
"O" STA. 55+00 TO 58+00 LEFT
ELSEWHERE AS NECESSARY

TYPICAL SECTION STATE FUNDED PAVING



TYPICAL WATER SERVICE CUT SECTION STATE FUNDED PAVING

The Plans are modified as follows: ADD # 4

Sheet B2 Add the following callout to the area outside the 100' Runway and above the Limits of Excavation that is not Crushed Asphalt Base Course on the Vertical Re-Alignment Details Sta. 31+00 to 43+00: "Crushed Aggregate Surface Course (Typ.)"

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C TRIPP

DESIGNED BY: C TRIPP

DRAWN BY: L. ROBERTSON

PATH: Q:\Klw\68164\PlanSet\B_TYPICAL_SECTIONS.dwg

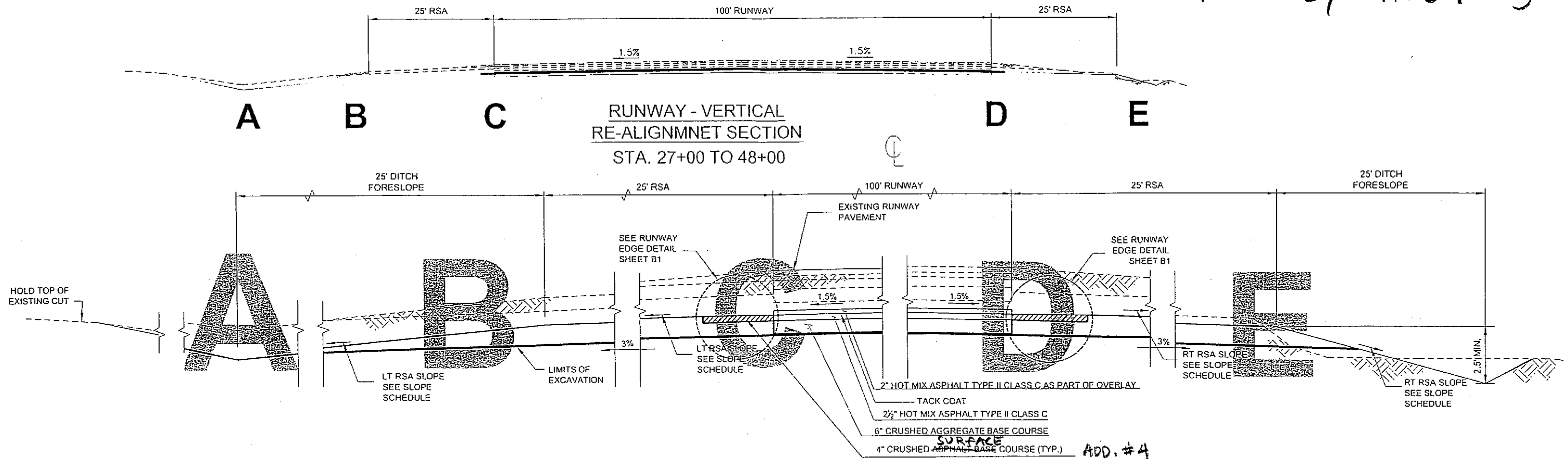
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

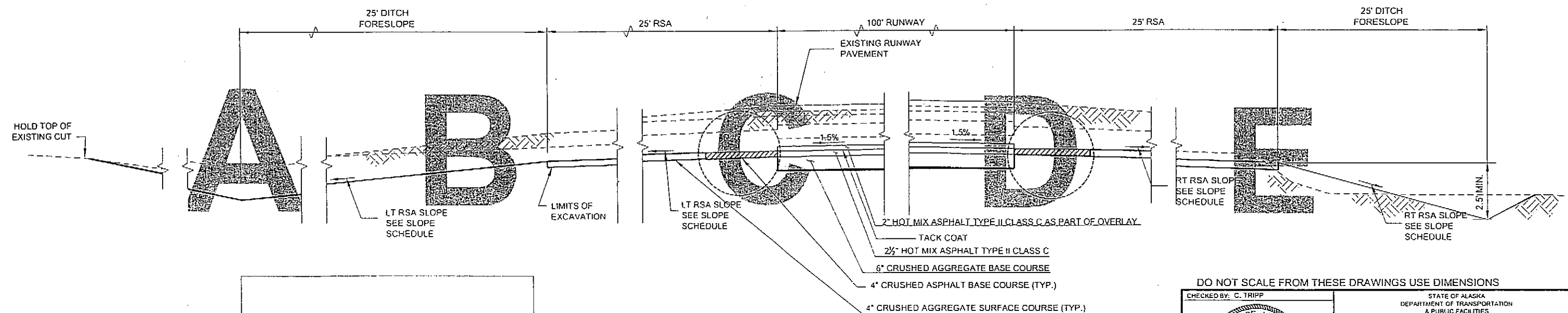
KLAWOCK AIRPORT RUNWAY, TAXIWAY AND APRON IMPROVEMENTS
PROJECT No. 68164
"O" Line
Typical Sections

REVISIONS			PROJECT DESIGNATION		YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			DTFAWA-06-A-00013		2007	B2	27

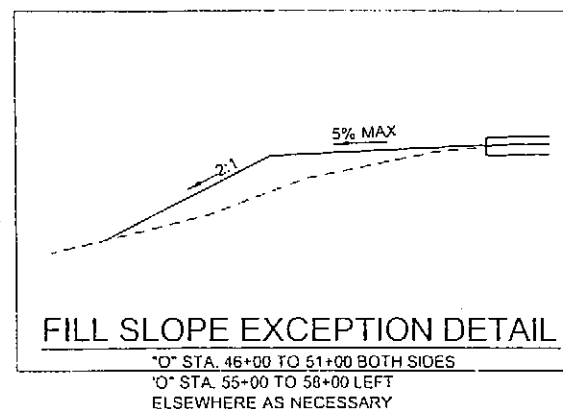
ADD BY ADD. #3



VERTICAL RE-ALIGNMENT DETAILS
STA. 31+00 TO 43+00



NOTE:
THE PURPOSE OF THE FILL SLOPE
EXCEPTION DETAIL IS TO AVOID
PLACING ANY FILL IN WETLANDS.
CONTRACTOR SHALL NOTIFY THE
ENGINEER IMMEDIATELY IF HE
FINDS THIS DETAIL WILL STILL RESULT
IN FILL BEING PLACED IN WETLANDS



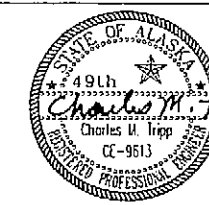
VERTICAL RE-ALIGNMENT DETAILS
STA. 27+00 TO 31+00
STA. 43+00 TO 48+00

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE Eto M.K. Date 3/10

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. TRIPP



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

KLAUOCK AIRPORT RUNWAY,
TAXIWAY & APRON IMPROVEMENTS
PROJECT NO. 68164

"O" Line Typical Sections

DESIGNED BY: C. TRIPP

DRAWN BY: B. ELIAS

PAID: 0-1 Km (58164) R (approx) R. TYPICAL SECTIONS - ADZ dug

DATE: Thu, 28 / Jan / 03 03:30PM

TABLE 1. *Continued*

REVISIONS		
NO	DATE	DESCRIPTION

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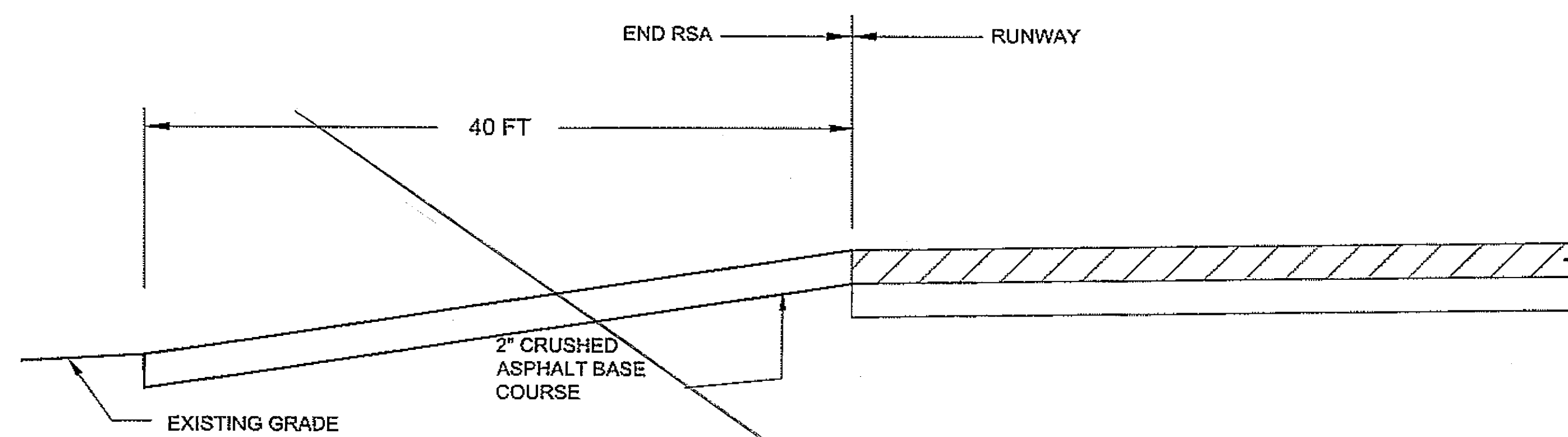
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DTEAWA 06 A 00012

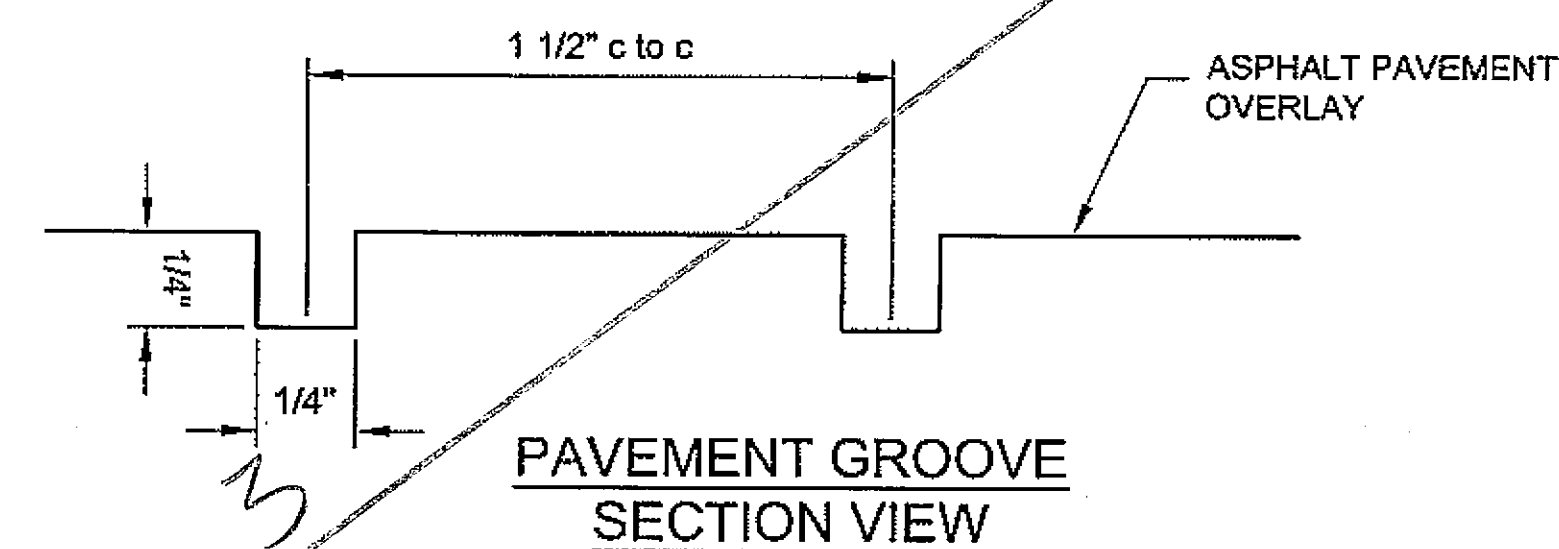
2007 |

82

28



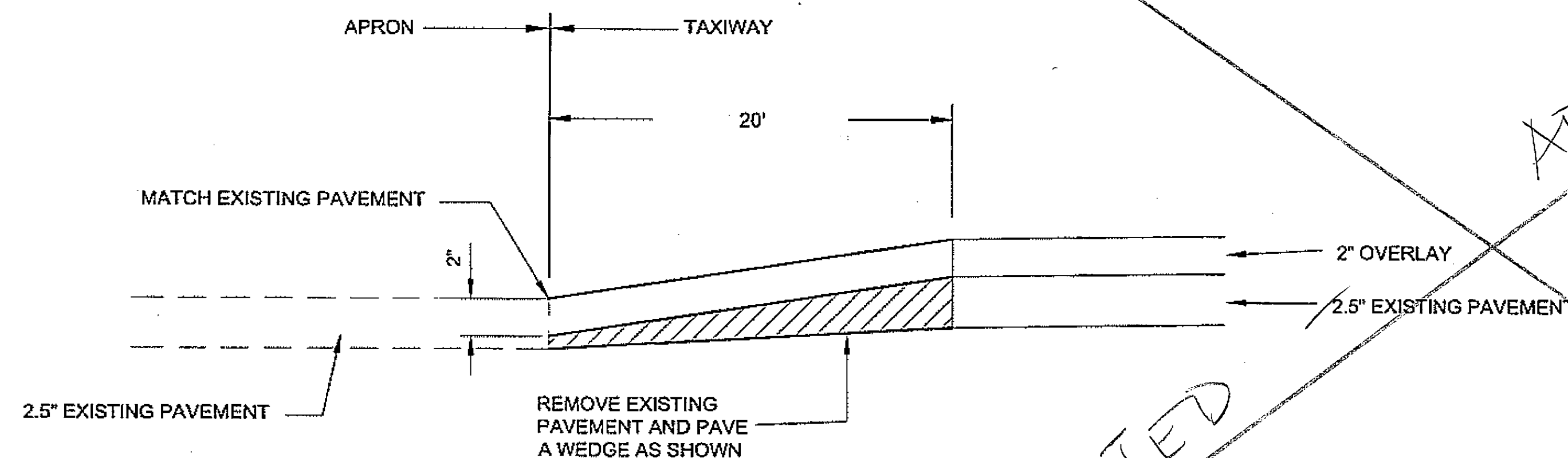
RUNWAY END TRANSITION DETAIL



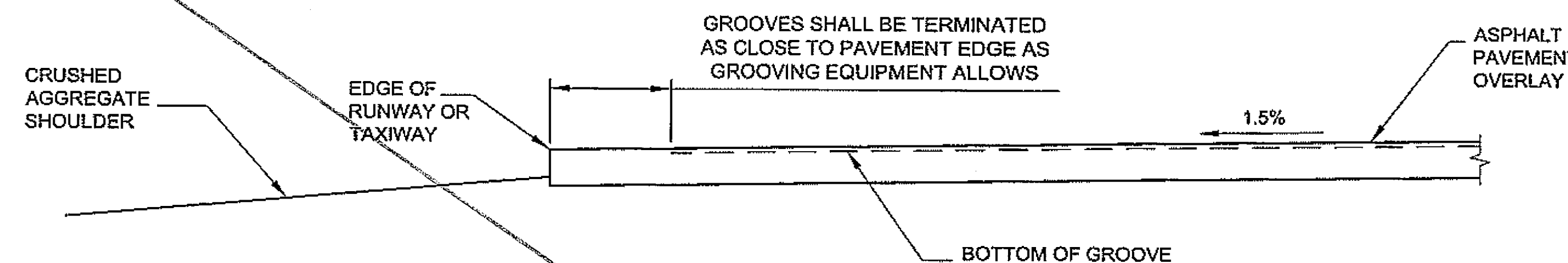
PAVEMENT GROOVE SECTION VIEW

PAVEMENT GROOVE NOTES:

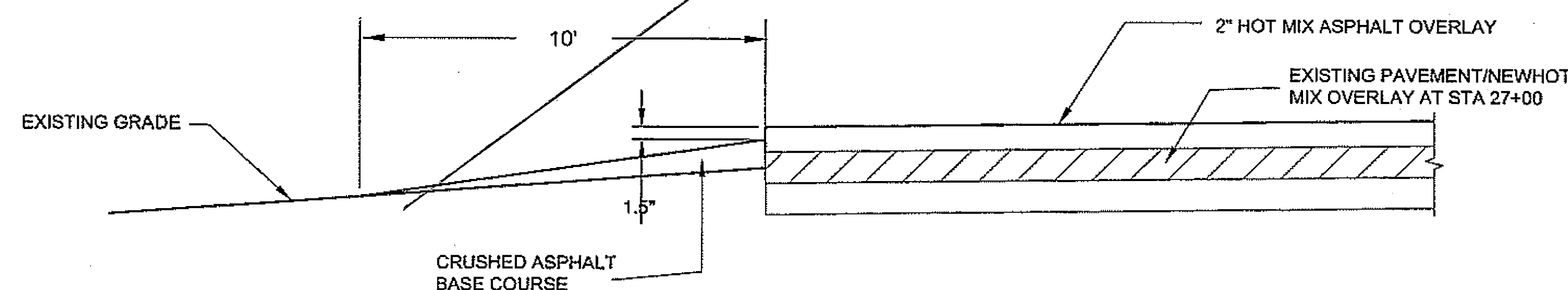
1. ALL NEW RUNWAY AND TAXIWAY PAVEMENT WILL BE GROOVED. GROOVES SHALL BE ORIENTED PERPENDICULAR TO THE CENTERLINE.
2. SEE SECTION P-630 FOR SPECIFICATIONS FOR MORE INFORMATION.



**PAVEMENT TRANSITION DETAIL
IF NO APRON OVERLAY**

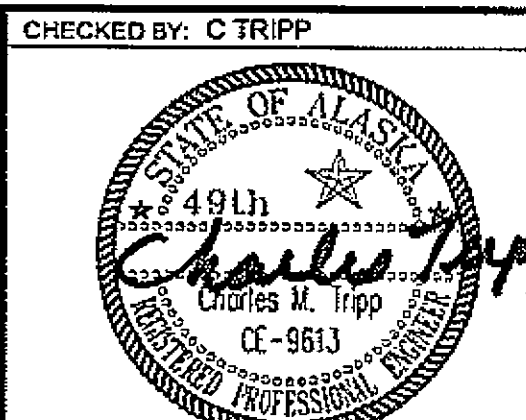


PAVEMENT GROOVE TERMINATION DETAIL



76+00 END TAXIWAY TRANSITION DETAIL

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



DESIGNED BY: C. TRIPP
DRAWN BY: L. ROBERTSON
PATH: 0:\Kiw\68164\PlanSet\B_TYPICAL_SECTIONS.dwg
TAB: Thu, 17/May/07 12:20PM brelia

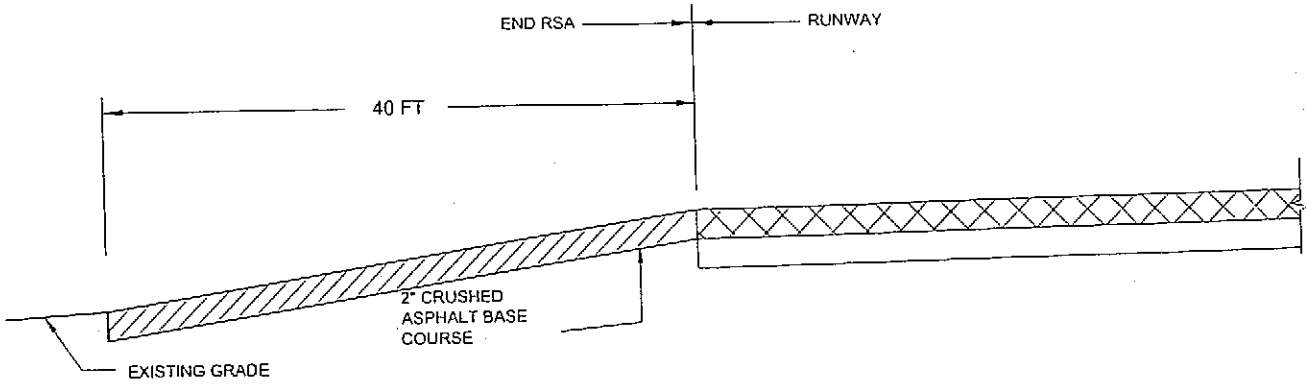
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

**KLAWOCK AIRPORT RUNWAY,
TAXIWAY AND APRON
IMPROVEMENTS
PROJECT No. 68164**

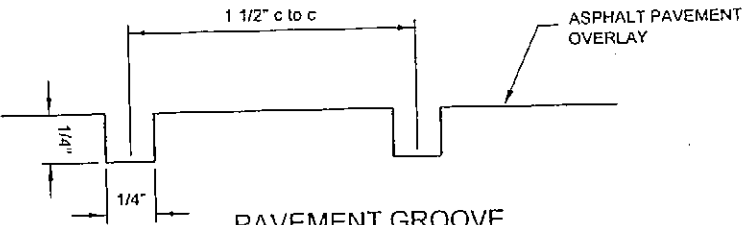
**RUNWAY
TYPICAL SECTIONS**

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			DTFAWA-06-A-00013	2007	B3	27

ADD BY ADD. #3

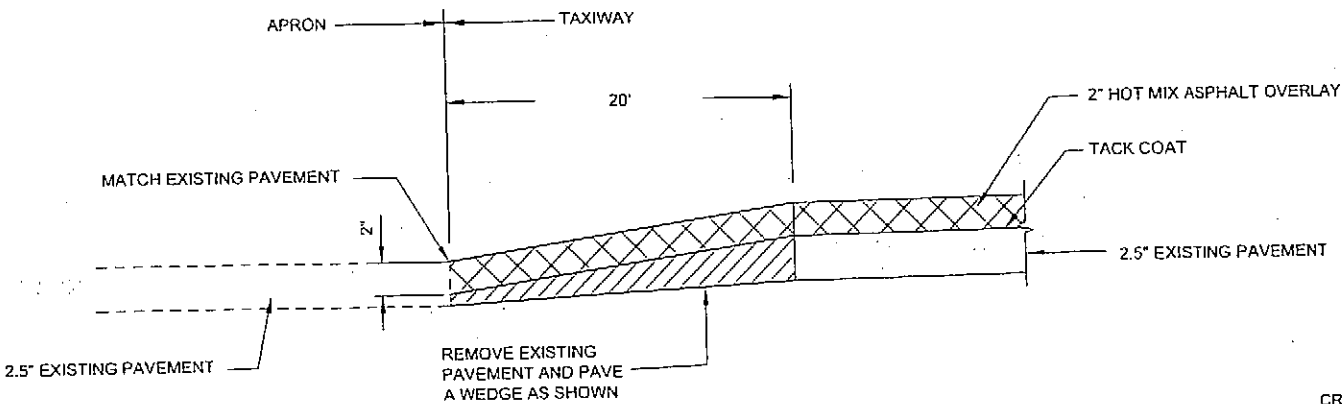


RUNWAY END TRANSITION DETAIL

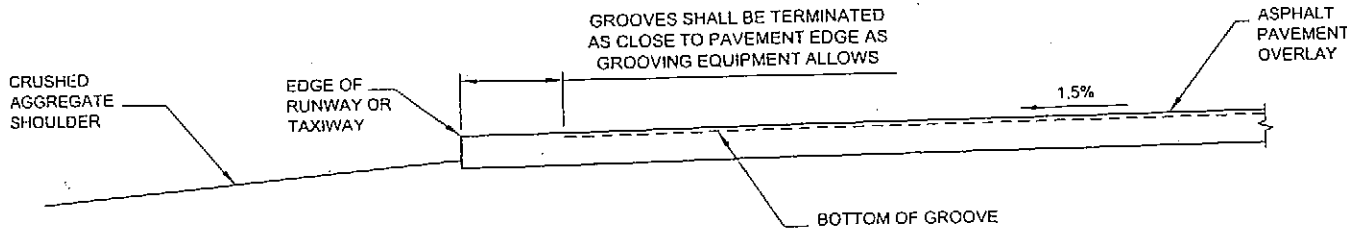


PAVEMENT GROOVE SECTION VIEW

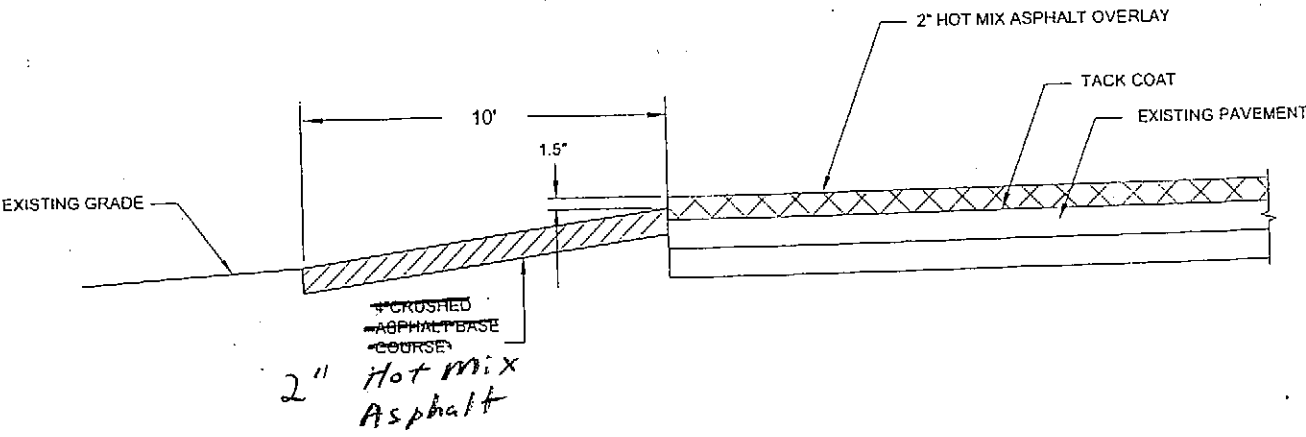
- PAVEMENT GROOVE NOTES:
- 1. ALL NEW RUNWAY AND TAXIWAY PAVEMENT WILL BE GROOVED. GROOVES SHALL BE ORIENTED PERPENDICULAR TO THE CENTERLINE.
 - 2. SEE SECTION P-630 FOR SPECIFICATIONS FOR MORE INFORMATION.



PAVEMENT TRANSITION DETAIL IF NO APRON OVERLAY

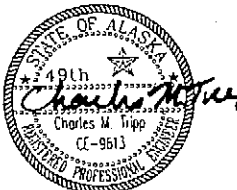


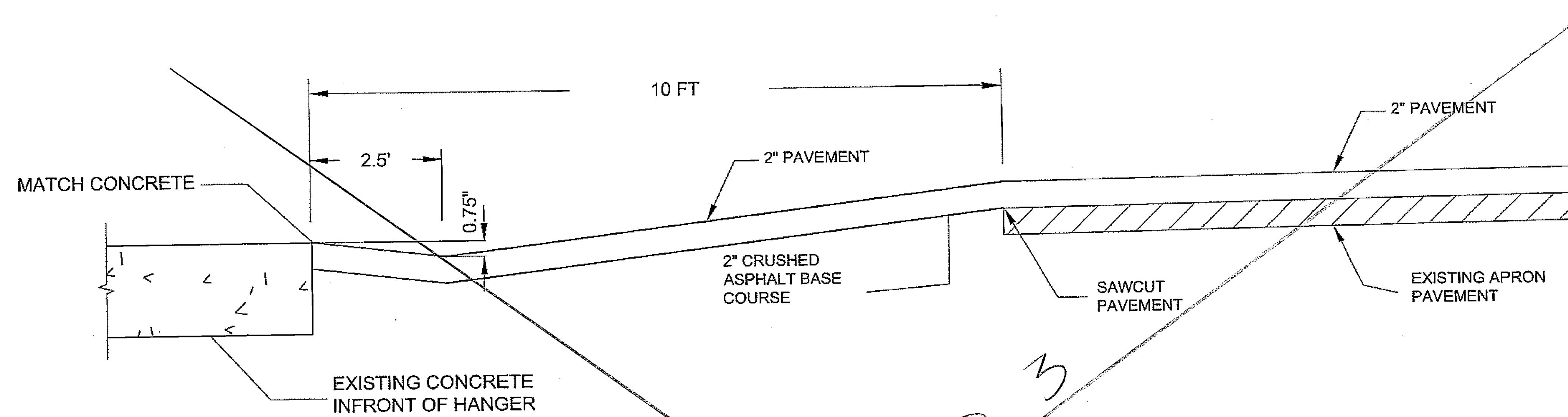
PAVEMENT GROOVE TERMINATION DETAIL



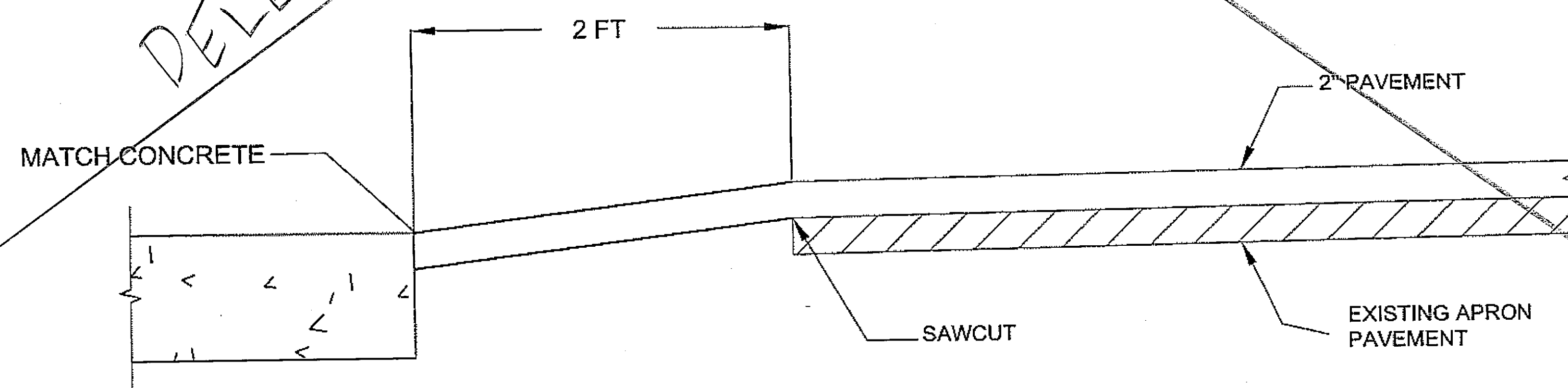
76+00 END TAXIWAY TRANSITION DETAIL

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *Steve Smith* Date *3/10*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS			
CHECKED BY: C. TRIPP		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION	
		KLAWOCK AIRPORT RUNWAY, TAXIWAY & APRON IMPROVEMENTS PROJECT NO. 68164	
DESIGNED BY: C. TRIPP			
DRAWN BY: B. ELIAS			
PATH: Q:\K14\68164\Plonset\B_TYPICAL_SECTIONS-AD2.dwg			
TAB: Thu. 28/Jun/07 10:21AM brelia			
REVISIONS		PROJECT DESIGNATION	YEAR
NO	DATE	DESCRIPTION	SHEET NO.
			TOTAL SHEETS
		DTFAWA-06-A-00013	2007 B3 28



HANGER DRAINAGE SWALE TYPICAL

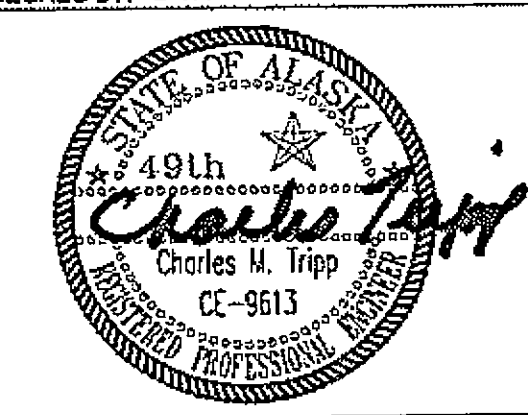


AUTOMATIC GATE TRANSITION TYPICAL

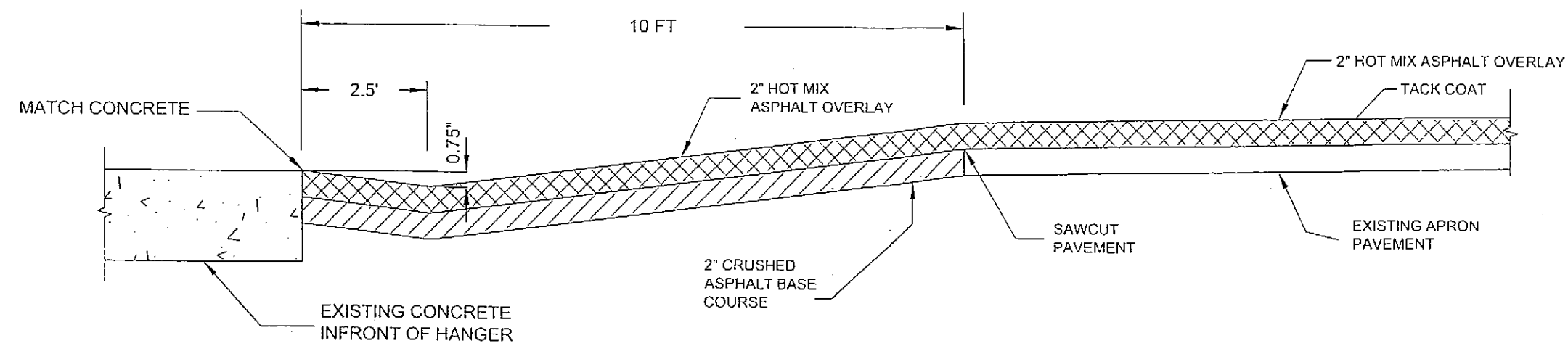
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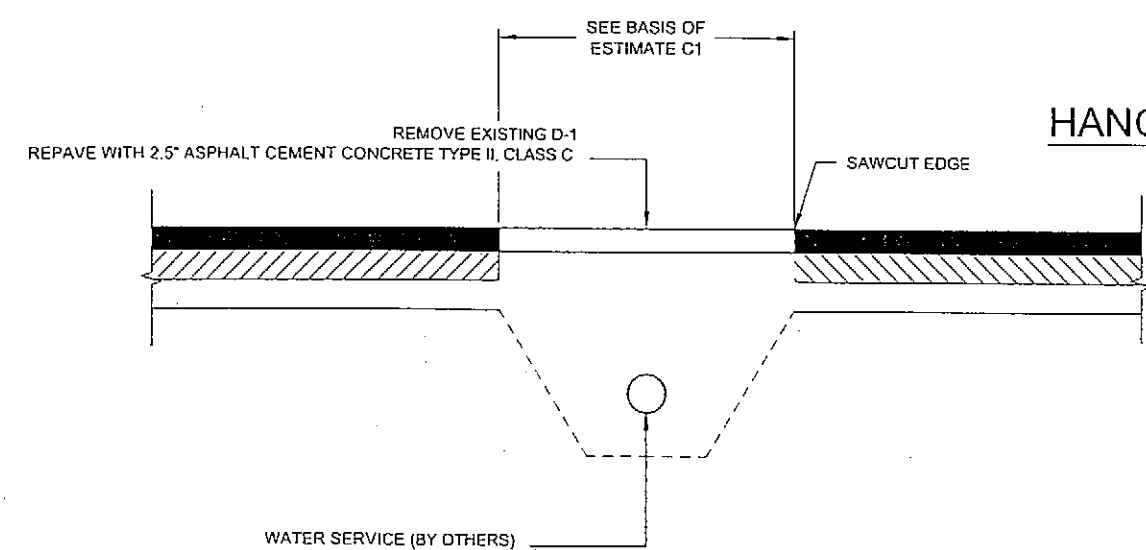
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C TRIPP 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION																		
DESIGNED BY: C TRIPP DRAWN BY: L. ROBERTSON		Klawock Airport Runway, Taxiway and Apron Improvements PROJECT No. 68164 RUNWAY TYPICAL SECTIONS																		
PATH: O:\Klw\68164\PlanSet\B_TYPICAL_SECTIONS.dwg TAB: Thu, 17/May/07 01:11PM cmtripp																				
<table border="1"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		REVISIONS			NO.	DATE	DESCRIPTION				<table border="1"> <thead> <tr> <th>PROJECT DESIGNATION</th> <th>YEAR</th> <th>SHEET NO.</th> <th>TOTAL SHEETS</th> </tr> </thead> <tbody> <tr> <td>DTFAWA-06-A-00013</td> <td>2007</td> <td>B4</td> <td>27</td> </tr> </tbody> </table>		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS	DTFAWA-06-A-00013	2007	B4	27
REVISIONS																				
NO.	DATE	DESCRIPTION																		
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS																	
DTFAWA-06-A-00013	2007	B4	27																	

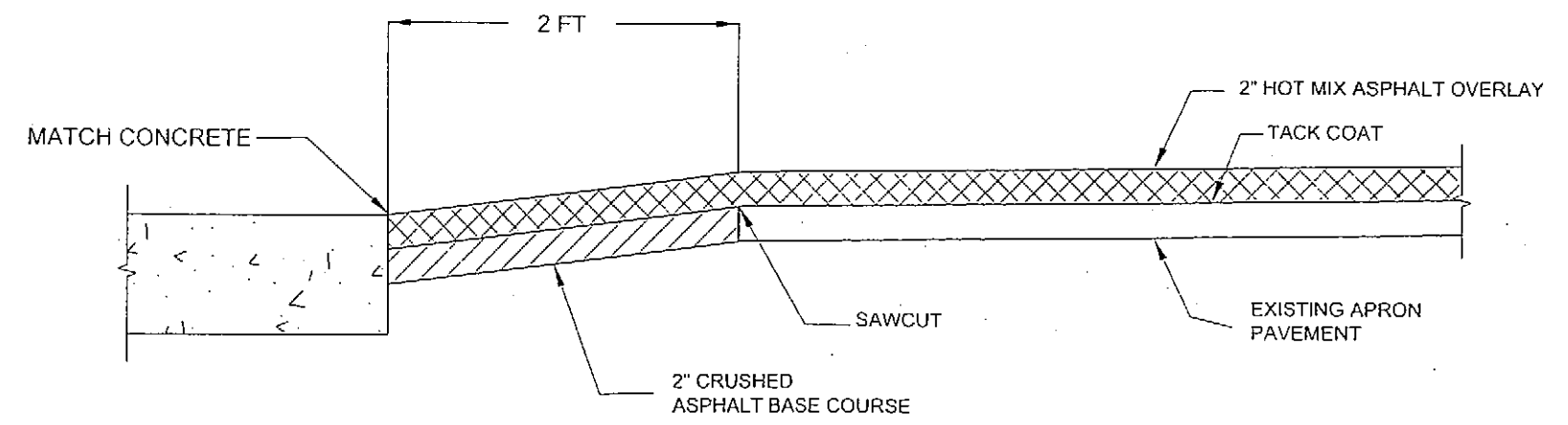
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HANGER DRAINAGE SWALE TYPICAL

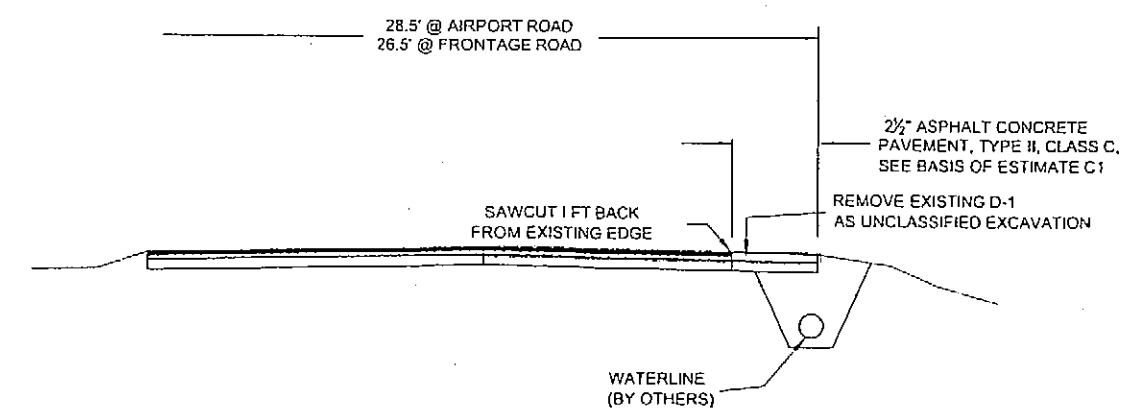


TYPICAL WATER SERVICE CUT SECTION
STATE FUNDED PAVING



AUTOMATIC GATE TRANSITION TYPICAL

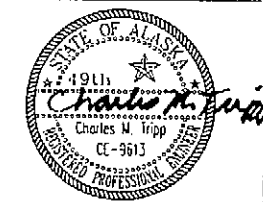
NOTE: WATERLINE AND WATERLINE SERVICE WORK TO REMOVE PAVEMENT, EXCAVATE, INSTALL WATERLINE AND LATERALS ACROSS APPROACH ROADWAY, BACKFILL AND COMPACT TO PAVEMENT GRADE IS TO BE DONE UNDER SEPARATE CONTRACT. COORDINATE WITH WATERLINE CONTRACTOR AS REQUIRED REGARDING DETAILS, SCHEDULING, TRAFFIC CONTROL AND ACCESS TO WORK SITE AND AIRPORT. AIRPORT CONTRACTOR TO REMOVE D-1 OVERLAY PLACED BY WATERLINE CONTRACTOR, GRADE, COMPACT, SAWCUT EDGES AND REPAVE THE LATERALS AND WATERLINE TRENCHED AREAS OF APPROACH ROADWAY.



TYPICAL SECTION STATE FUNDED PAVING

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE Steve Miller Date 3/10

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. TRIPP  DESIGNED BY: C. TRIPP DRAWN BY: B. ELIAS PATH: O:\Klw\68164\Plnsent\B_TYPICAL_SECTIONS-ADZ.dwg TAB: Thu, 28/Jun/07 03:16PM brelias		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION Klawock Airport Runway, Taxiway & Apron Improvements PROJECT NO. 68164 RUNWAY TYPICAL SECTIONS	
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
DTFAWA-06-A-00013	2007	B4	28

ESTIMATE OF QUANTITIES - BASE BID			
ITEM NO.	ITEM	PAY UNIT	QUANTITY
D701a	24" CORRUGATED POLYETHYLENE PIPE	LUMP SUM	ALL REQUIRED
G-100a	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
G-115a	WORKER AND LODGING	LUMP SUM	ALL REQUIRED
G-130a	FIELD OFFICE	LUMP SUM	ALL REQUIRED
G-130b	FIELD LABORATORY	LUMP SUM	ALL REQUIRED
G-130g	NUCLEAR TESTING EQUIPMENT STORAGE SHEL	EACH	1
G-130h	STORAGE CONTAINER - TRANSIT ONLY	EACH	1
G-131b	ENGINEERING TRANSPORTATION (TRUCK)	EACH	3
G-135a	CONSTRUCTION SURVEYING BY THE CONTRACTOR	LUMP SUM	ALL REQUIRED
G-135b	EXTRA THREE PERSON SURVEY PARTY	PER HOUR	8
G-135c	MONUMENTS BY THE CONTRACTOR	EACH	2
G-160a	EAGLE MONITORING	PER HOUR	100
G-704a	HAZARDOUS AREA BARRIER	LUMP SUM	ALL REQUIRED
L-100t	LIGHTING & NAVAIDS	LUMP SUM	ALL REQUIRED
P-152a	UNCLASSIFIED EXCAVATION	LUMP SUM	ALL REQUIRED
P-157a	EROSION AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED
P-157b	TEMPORARY EROSION AND POLLUTION CONTROL	CONTINGENT SUM	ALL REQUIRED
P-157e	SILT FENCE	LINEAR FOOT	11,000
P-157f	CHECK DAMS	EACH	13
P-165a	REMOVAL AND DISPOSAL OF EXISTING STRUCTURES	LUMP SUM	ALL REQUIRED
P-165b	STATE FUNDED REMOVAL AND DISPOSAL OF EXISTING STRUCTURES	SQUARE YARD	191
P-208c	CRUSHED AGGREGATE SURFACE COURSE	PER TON	8800
P-209b	CRUSHED AGGREGATE BASE COURSE	PER TON	7700
P-218a	CRUSHED ASPHALT BASE COURSE	LUMP SUM	ALL REQUIRED
P-401a	HOT MIX ASPHALT TYPE II, CLASS C	PER TON	11105
P-401b	HOT MIX ASPHALT PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
P-401c	ASPHALT CEMENT [PG 64-28]	PER TON	678
P-401f	2.5 INCHES HOT MIX TYPE II, CLASS C, STATE FUNDED	SQUARE YARD	984
P-603a	TACK COAT [GRADE]	PER TON	24
P-620c	RUNWAY AND TAXIWAY PAINTING	LUMP SUM	ALL REQUIRED
P-630b	PAVEMENT GROOVING	LUMP SUM	ALL REQUIRED
P-650a	ANCHOR TIE-DOWN EXTENSION	LUMP SUM	ALL REQUIRED

ESTIMATE OF QUANTITIES - ADDITIVE ALTERNATIVE A			
ITEM NO.	ITEM	PAY UNIT	QUANTITY
P-401a	HOT MIX ASPHALT TYPE II, CLASS C	PER TON	5,015
P-401b	HOT ASPHALT PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
P-401c	BITUMINOUS MATERIAL [64-28]	PER TON	301
P-603a	BITUMINOUS TACK COAT	PER TON	17
P-620a	APRON + AIRCRAFT + TIE-DOWN PAINTING	LUMP SUM	ALL REQUIRED

CULVERT PIPE SUMMARY									
PIPE NO.	TYPE	DIAMETER (in)	LENGTH (ft)	INLET			OUTLET		
				STA	OFF.	INV.	STA	OFF.	INV.
P1	CPE*	18	36	STA. 33+09.3	90.0 LT	37.64	STA. 32+73.3	90.0 LT	37.28

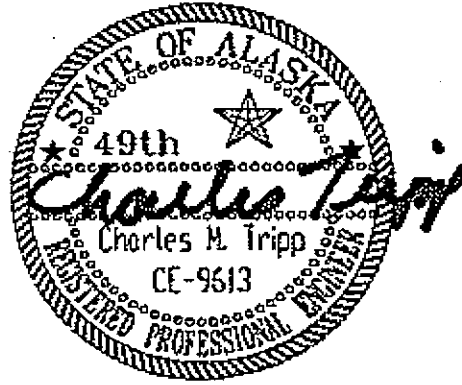
*CORRUGATED POLYETHYLENE PIPE

BASIS OF ESTIMATE		
ITEM	PAY ITEM	ESTIMATING FACTOR
D-701A	24" CORRUGATED POLYETHYLENE PIPE	36FT OF PIPE PLUS 54FT SPECIAL DITCH
G-704A	HAZARDOUS AREA BARRIER	102 BARRIERS
L-100t	LIGHTING & NAVAIDS	SEE K SHEETS
P-152A	UNCLASSIFIED EXCAVATION	18,000 CUBIC YARDS OF EXCAVATION
P-165A	REMOVAL AND DISPOSAL OF EXISTING STRUCTURES	2100X100FT X 2.5" OF ASPHALT
P-165B	STATE FUNDED REMOVAL & DISPOSAL OF EXISTING STRUCTURE	1720X1FT X 2.5" OF ASPHALT
P-208C	CRUSHED AGGREGATE SURFACE COURSE	1.98 TON/CY
P-209B	CRUSHED AGGREGATE BASE COURSE	1.98 TON/CY
P-218A	CRUSHED ASPHALT BASE COURSE	SEE P-165A AND P-165B
P-401A	HOT MIX ASPHALT TYPE II, CLASS C	120 LB/SY/IN
P-401C	ASPHALT CEMENT [PG 64-28]	6% OF ITEM P-401A AND P-401F
P-401F	2.5" HOT MIX ASPHALT TYPE II, CLASS C, STATE FUNDED	1720X4FT + 8X80FT + 6X8X28FT
P-603A	TACK COAT CSS-1	0.1 GAL/SY, 243 GAL/TON
P-620C	RUNWAY AND TAXIWAY PAINTING	62310 SF TOTAL, 31600 SF REQUIRING REFLECTIVE MEDIA + 2740 SF FOR APRON AND TIE-DOWNS
P-630B	PAVEMENT GROOVING	58100 SY
P-650A	ANCHOR TIE-DOWN EXTENSION	20 SETS OF TIE-DOWNS

G-135C MONUMENT ADJUSTMENT SCHEDULE

MONUMENT NUMBER	STATION	OFFSET
M1	60+00.0	0.0 LT
M2	76+00.0	0.0 LT

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C TRIPP		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION	
		KLAWOCK AIRPORT RUNWAY, TAXIWAY AND APRON IMPROVEMENTS PROJECT No. 68164	
DESIGNED BY: C TRIPP		ESTIMATE OF QUANTITIES & SUMMARIES	
DRAWN BY: L. ROBERTSON			
PATH: Q:\k16\68164\PlanSet\C_ESTIMATES.dwg			
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REVISIONS		PROJECT DESIGNATION	YEAR
NO.	DATE	DESCRIPTION	
		DTFAWA-06-A-00013	2007
		SHEET NO.	TOTAL SHEETS
		C1	27

ADD BY ADD. #3

ESTIMATE OF QUANTITIES - BASE BID

ITEM NO.	ITEM	PAY UNIT	QUANTITY
D701a	18" CORRUGATED POLYETHYLENE PIPE	LUMP SUM	ALL REQUIRED
G-100a	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
G-115a	WORKER MEALS AND LODGING	LUMP SUM	ALL REQUIRED
G-130a	FIELD OFFICE	LUMP SUM	ALL REQUIRED
G-130b	FIELD LABORATORY	LUMP SUM	ALL REQUIRED
G-130g	NUCLEAR TESTING EQUIPMENT STORAGE SHED	EACH	1
G-130h	STORAGE CONTAINER - TRANSPORTATION ONLY	EACH	1
G-131b	ENGINEERING TRANSPORTATION (TRUCK)	EACH	3
G-135a	CONSTRUCTION SURVEYING BY THE CONTRACTOR	LUMP SUM	ALL REQUIRED
G-135b	EXTRA THREE PERSON SURVEY PARTY	PER HOUR	-8 2.73
G-135c	MONUMENTS BY THE CONTRACTOR	EACH	-2 0
G-160a	EAGLE MONITORING	PER HOUR	-100 0
G-200a	CONTRACTOR QUALITY CONTROL PROGRAM	LUMP SUM	ALL REQUIRED
G-704a	HAZARDOUS AREA BARRIER	LUMP SUM	ALL REQUIRED
L-100i	LIGHTING AND NAVAIDS	LUMP SUM	ALL REQUIRED
P-152a	UNCLASSIFIED EXCAVATION	LUMP SUM	ALL REQUIRED
P-157a	EROSION AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED
P-157b	TEMPORARY EROSION AND POLLUTION CONTROL	CONTINGENT SUM	ALL REQUIRED
P-157c	SILT FENCE , CO 3	LINEAR FOOT	-11,000 0
P-157f	TEMPORARY CHECK DAMS	EACH	-19 19
P-165a	REMOVAL AND DISPOSAL OF EXISTING STRUCTURES	LUMP SUM	ALL REQUIRED
P-165b	STATE FUNDED REMOVAL AND DISPOSAL OF EXISTING STRUCTURES	SQUARE YARD	-191 386.20
P-208c	CRUSHED AGGREGATE SURFACE COURSE	PER TON	-9500 8587.41
P-209b	CRUSHED AGGREGATE BASE COURSE	PER TON	-7700 7494.32
P-218a	CRUSHED ASPHALT BASE COURSE	LUMP SUM	ALL REQUIRED
P-401a	HOT MIX ASPHALT TYPE II, CLASS C	PER TON	-11100 10361.82
P-401b	HOT MIX ASPHALT PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
P-401c	ASPHALT CEMENT [PG 64-28] , CO 3	PER TON	-678 0
P-401f	2.5 INCHES HOT MIX TYPE II, CLASS C, STATE FUNDED	SQUARE YARD	-984 1462.70
P-603a	TACK COAT [CSS-1]	PER TON	24.17
P-620c	RUNWAY AND TAXIWAY PAINTING	LUMP SUM	ALL REQUIRED
P-630b	PAVEMENT GROOVING	LUMP SUM	ALL REQUIRED

ESTIMATE OF QUANTITIES - ADDITIVE ALTERNATIVE A

ITEM NO.	ITEM	PAY UNIT	QUANTITY
G-100a	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
G-115a	WORKER MEALS AND LODGING	LUMP SUM	ALL REQUIRED
P-401a	HOT MIX ASPHALT TYPE II, CLASS C	PER TON	-5015 5007.4
P-401b	HOT MIX ASPHALT PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
P-401c	ASPHALT CEMENT [PG 64-28] , CO 3	PER TON	-301 0
P-603a	TACK COAT [CSS-1]	PER TON	-17 13.94
P-620a	APRON + AIRCRAFT + TIE-DOWN PAINTING	LUMP SUM	ALL REQUIRED

BASIS OF ESTIMATE

ITEM	PAY ITEM	ESTIMATING FACTOR
D-701a	18" CORRUGATED POLYETHYLENE PIPE	36FT OF PIPE PLUS 54FT SPECIAL DITCH
G-704a	HAZARDOUS AREA BARRIER	102 BARRIERS
L-100i	LIGHTING & NAVAIDS	SEE K SHEETS
P-152a	UNCLASSIFIED EXCAVATION	18,000 CUBIC YARDS OF EXCAVATION
P-165a	REMOVAL AND DISPOSAL OF EXISTING STRUCTURES	2100X100FT X 2.5" OF ASPHALT
P-165b	STATE FUNDED REMOVAL AND DISPOSAL OF EXISTING STRUCTURE	1720X1FT X 2.5" OF ASPHALT
P-208c	CRUSHED AGGREGATE SURFACE COURSE	1.98 TON/CY
P-209b	CRUSHED AGGREGATE BASE COURSE	1.98 TON/CY
P-218a	CRUSHED ASPHALT BASE COURSE	SEE P-165A AND P-165B
P-401a	HOT MIX ASPHALT TYPE II, CLASS C	120 LB/SY/IN
P-401c	ASPHALT CEMENT [PG 64-28]	6% OF ITEM P-401A AND P-401F
P-401f	2.5" HOT MIX ASPHALT TYPE II, CLASS C, STATE FUNDED	1720X4FT + 8X80FT + 6X8X28FT
P-603a	TACK COAT [CSS-1]	0.1 GAL/SY, 243 GAL/TON
P-620c	RUNWAY AND TAXIWAY PAINTING	62310 SF TOTAL, 31600 SF REQUIRING REFLECTIVE MEDIA + 2740 SF FOR APRON AND TIE-DOWNS
P-630b	PAVEMENT GROOVING	58100 SY
P-650a	ANCHOR TIE-DOWN EXTENSION - INCIDENTAL	20 SETS OF TIE-DOWNS

G-135C MONUMENT ADJUSTMENT -SCHEDULE-

MONUMENT NUMBER	STATION	OFFSET
M1	60+00.0	0.0 LT
M2	76+00.0	0.0 LT

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
RE Steve Miller Date 3/10

Abandon
"In Place"
Pave over cases

New Items Established By Change Order

ITEM	QTY	UNIT	DESCRIPTION	CO	UNIT PRICE	AMOUNT	REMARKS
P-401(1g)	N/A	450	Pavement Crack Repair	CO 1	L.S.	39,330.00	All Req'd \$39,330.00
D-701b	↑	↑	Disposal Site 24" CPP Culvert Extension	CO 2	L.S.	10,310.00	All Req'd \$10,310.00
L-100u	↑	↑	Additional J-Box Grade Extension	CO 3	L.S.	19,000.00	All Req'd \$19,000.00
P-157g	↑	↑	Straw Wattles	CO 3	L.F.	5.00	9,071.00 \$45,355.00
P-401d	NA	↓	Asphalt Cement, PG 58-28	CO 3	Ton	650.00	976.02 \$634,413.00
P-401d	NP	450	Asphalt Material Price Adjustment	CO 4	L.S.	158,238.71	All Req'd \$158,238.71

CULVERT PIPE SUMMARY

PIPE NO.	TYPE	DIAMETER (in)	LENGTH (ft)	INLET			OUTLET		
				STA	OFF.	INV.	STA	OFF.	INV.
P1	CPE*	18	36	STA. 33+09.3	90.0 LT	37.64	STA. 32+73.3	90.0 LT	37.28

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. TRIPP		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION	
		Klawock Airport Runway, Taxiway & Apron Improvements PROJECT NO. 68164	
ESTIMATE OF QUANTITIES & SUMMARIES			
DESIGNED BY: C. TRIPP		YEAR: 2007	
DRAWN BY: B. ELIAS		SHEET NO. C1	
PATH: O:\K1\68164\PlanSet\C_ESTIMATES.dwg		TOTAL SHEETS 28	
TAB: Thu, 28/Jun/07 03:59PM		PROJECT DESIGNATION: DTFWA-06-A-00013	
REVISIONS		DESCRIPTION	
NO.	DATE	DESCRIPTION	

SLOPE SCHEDULE				
STATION	LEFT		RIGHT	
	CUT/FILL SLOPE	RSA SLOPE	RSA SLOPE	CUT/FILL SLOPE
27+00	4H:1V	none	none	4H:1V
27+50	4H:1V	none	none	4H:1V
28+00	4H:1V	5%	5%	4H:1V
28+50	4H:1V	5%	5%	4H:1V
29+00	4H:1V	5%	5%	4H:1V
29+50	4H:1V	5%	5%	4H:1V
30+00	4H:1V	5%	3%	4H:1V
30+50	4H:1V	3%	3%	4H:1V
31+00	4H:1V	3%	3%	4H:1V
31+50	4H:1V	3%	3%	10H:1V
32+00	4H:1V	3%	3%	10H:1V
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40+00	10H:1V	3%	3%	10H:1V
40+50	10H:1V	3%	3%	10H:1V
41+00	10H:1V	3%	3%	10H:1V
41+50	10H:1V	3%	3%	10H:1V
42+00	10H:1V	3%	3%	10H:1V
42+50	10H:1V	3%	3%	10H:1V
43+00	4H:1V	3%	3%	4H:1V
43+50	4H:1V	3 5%	3%	4H:1V
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45+00	4H:1V	3 5%	3 5%	4H:1V
45+50	4H:1V	3 5%	3 5%	4H:1V
46+00	2H:1V	3 5%	3 5%	2H:1V
46+50	2H:1V	3 5%	3 5%	2H:1V
47+00	2H:1V	3 5%	3 5%	2H:1V
47+50	2H:1V	3 5%	3 5%	2H:1V
48+00	2H:1V	3 5%	3 5%	2H:1V

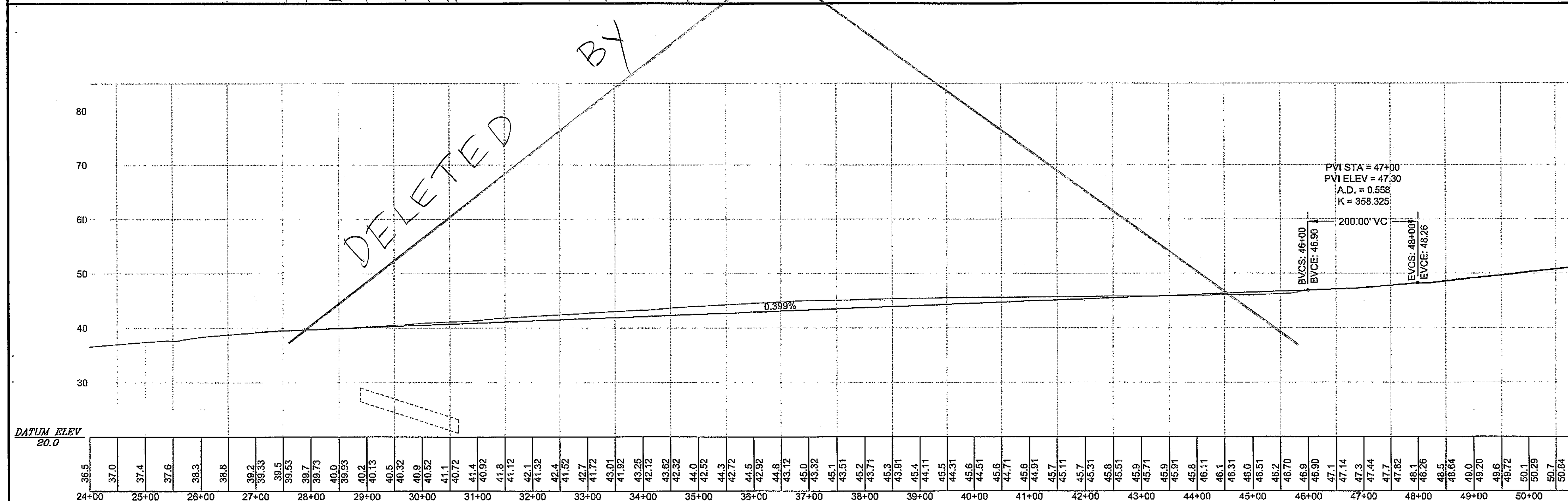
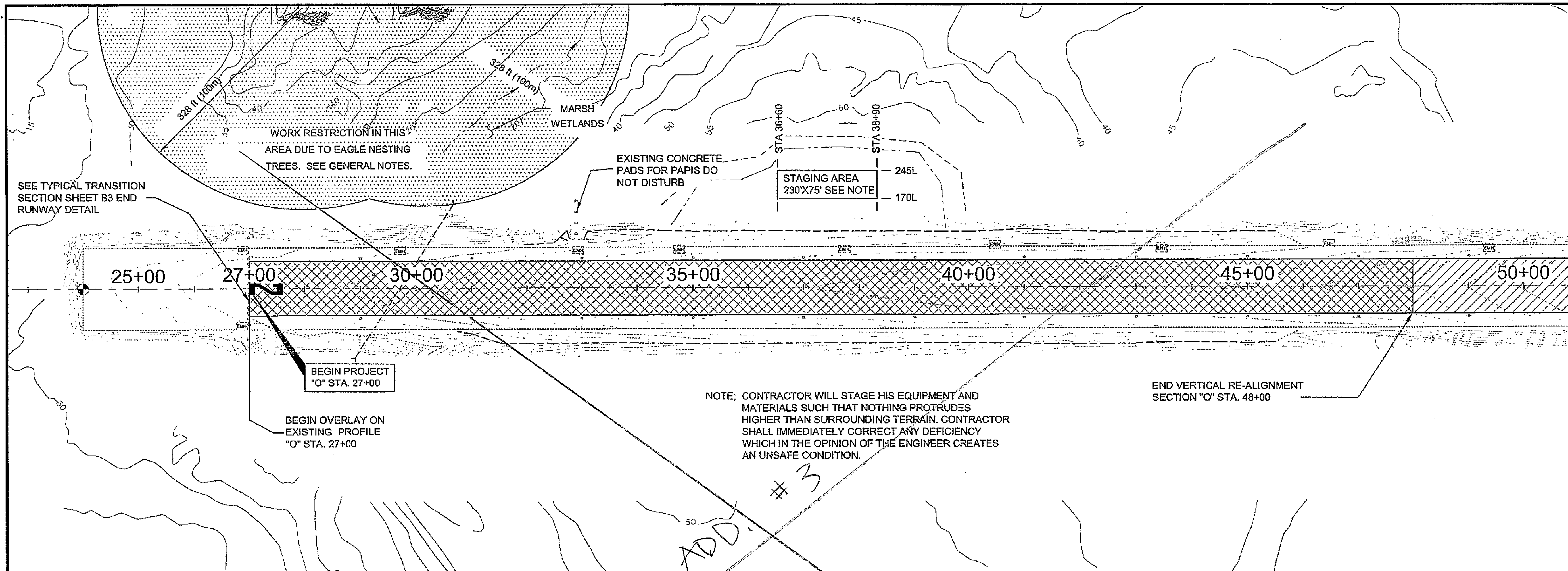
ADD BY ADD. 3

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE Stan Mink Date 3/10

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. TRIPP		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION				
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DRAWN BY: B. ELIAS						
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NO.	DATE	DESCRIPTION				
				DTFAWA-06-A-00013	2007	C2 28



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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN LEGEND

CHECKED BY: Chuck M. Tripp

DESIGNED BY: Chuck M. Tripp

DRAWN BY: BWB

STATE OF ALASKA
49th
Charles M. Tripp
REGISTERED PROFESSIONAL ENGINEER
CE-9613

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION
KLAUOCK AIRPORT RUNWAY,
TAXIWAY AND APRON
IMPROVEMENTS

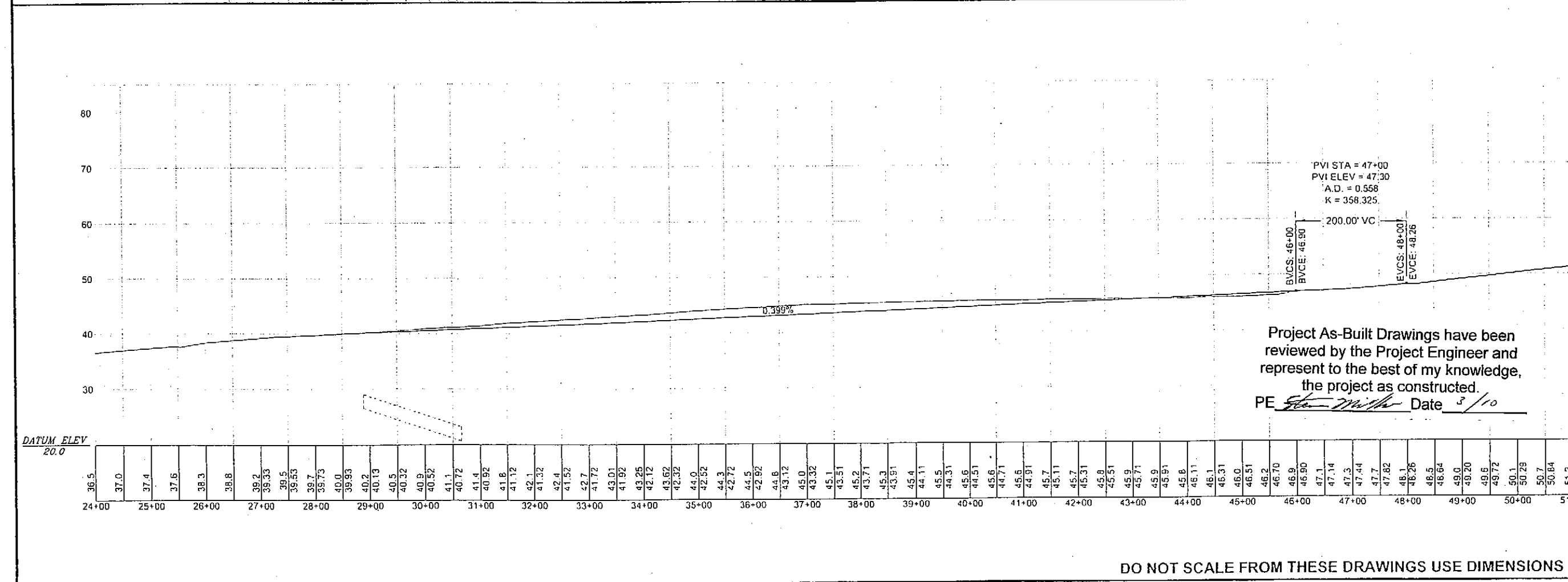
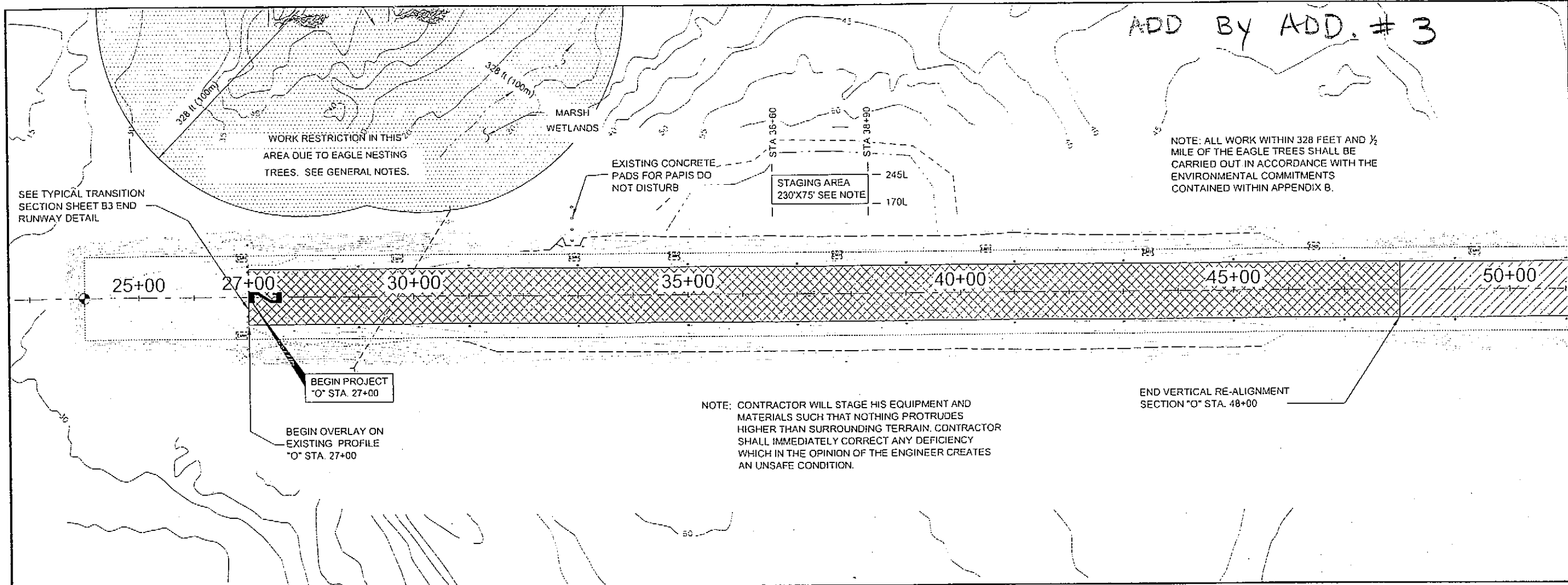
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RUNWAY 02/20
PLAN & PROFILE

PROJECT DESIGNATION
DTFAWA-06-A-00013

STATE	YEAR
ALASKA	2007

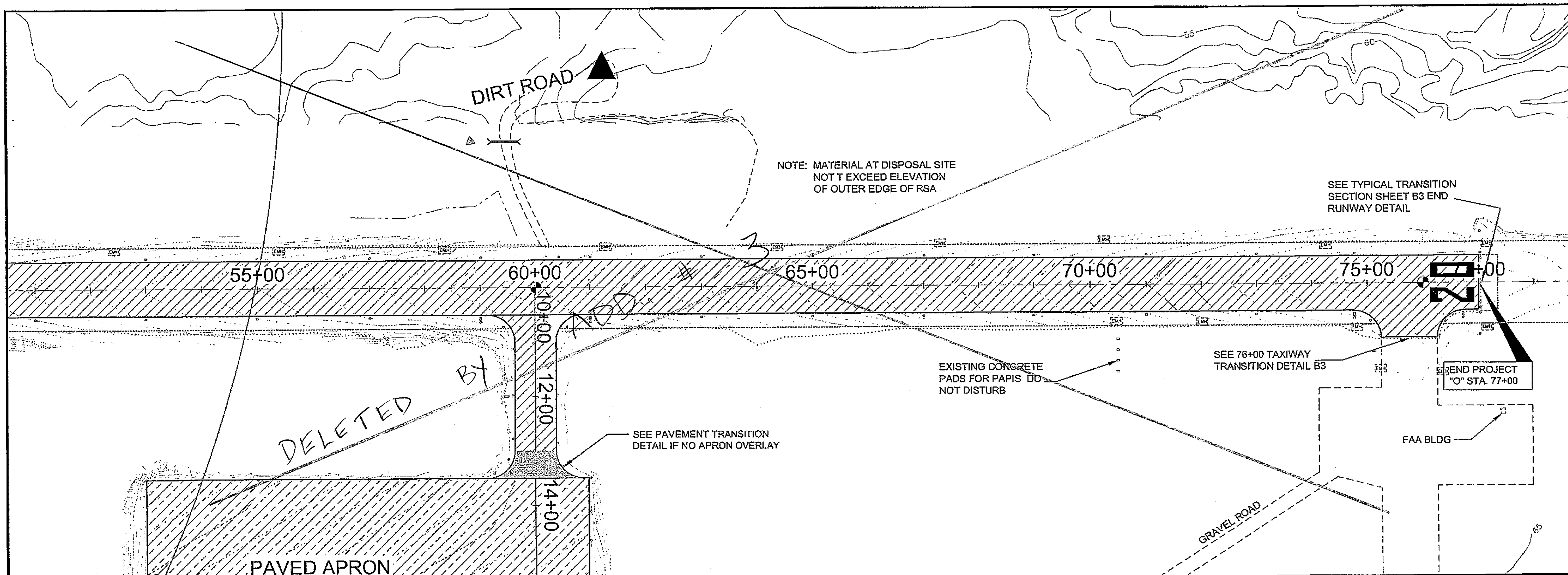
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DESIGNED BY: Chuck M. Tripp		
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PROJECT DESIGNATION		
DTFAWA-06-A-00013		
STATE	YEAR	
ALASKA	2007	
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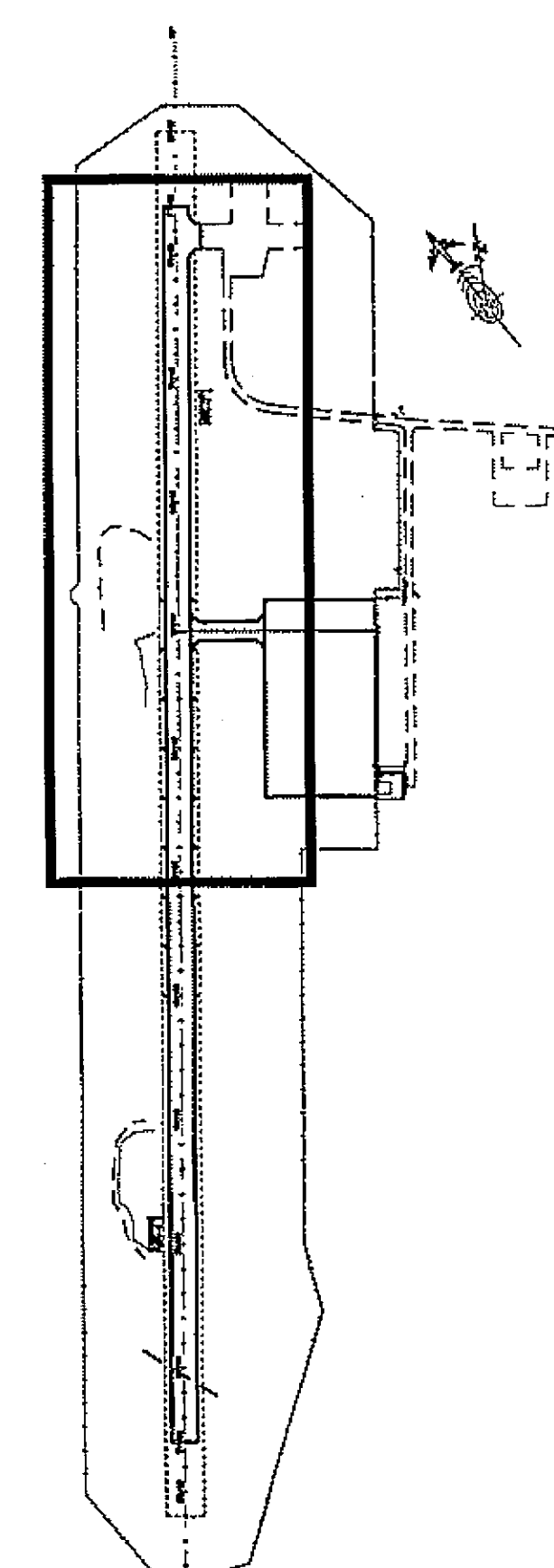
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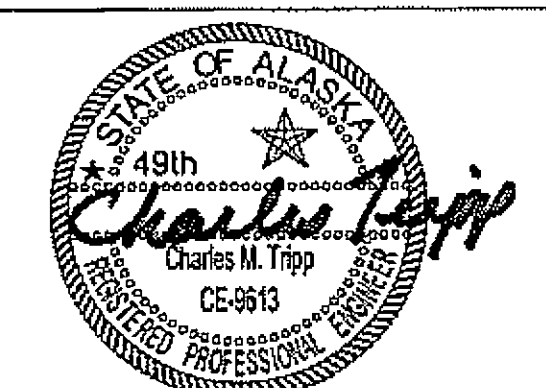
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No.	DATE	DESCRIPTION



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CHECKED BY: Chuck M. Tripp



DESIGNED BY: Chuck M. Tripp

DRAWN BY: BWB

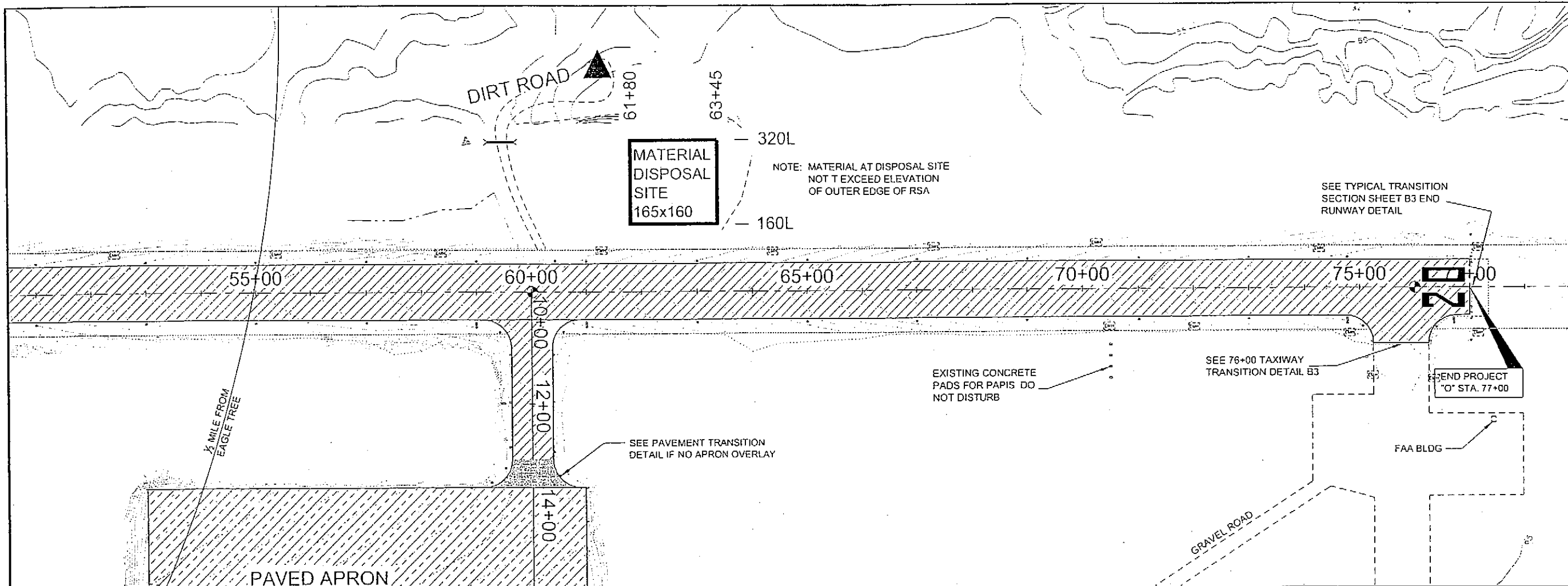
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DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION
KLAWOCK AIRPORT RUNWAY,
TAXIWAY AND APRON
IMPROVEMENTS

PROJECT #68164
**RUNWAY 02/20
PLAN & PROFILE**

PROJECT DESIGNATION
DTFAWA-06-A-00013

STATE	YEAR
ALASKA	2007
SHEET NUMBER	TOTAL SHEETS
F2	27

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ADD BY ADD. #3

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE Stan Mullen Date 3/10

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ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN LEGEND

CHECKED BY: Chuck M. Tripp

DESIGNED BY: Chuck M. Tripp

DRAWN BY: BWB

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 DESIGN & ENGINEERING SERVICES
 DIVISION: SOUTHEAST REGION

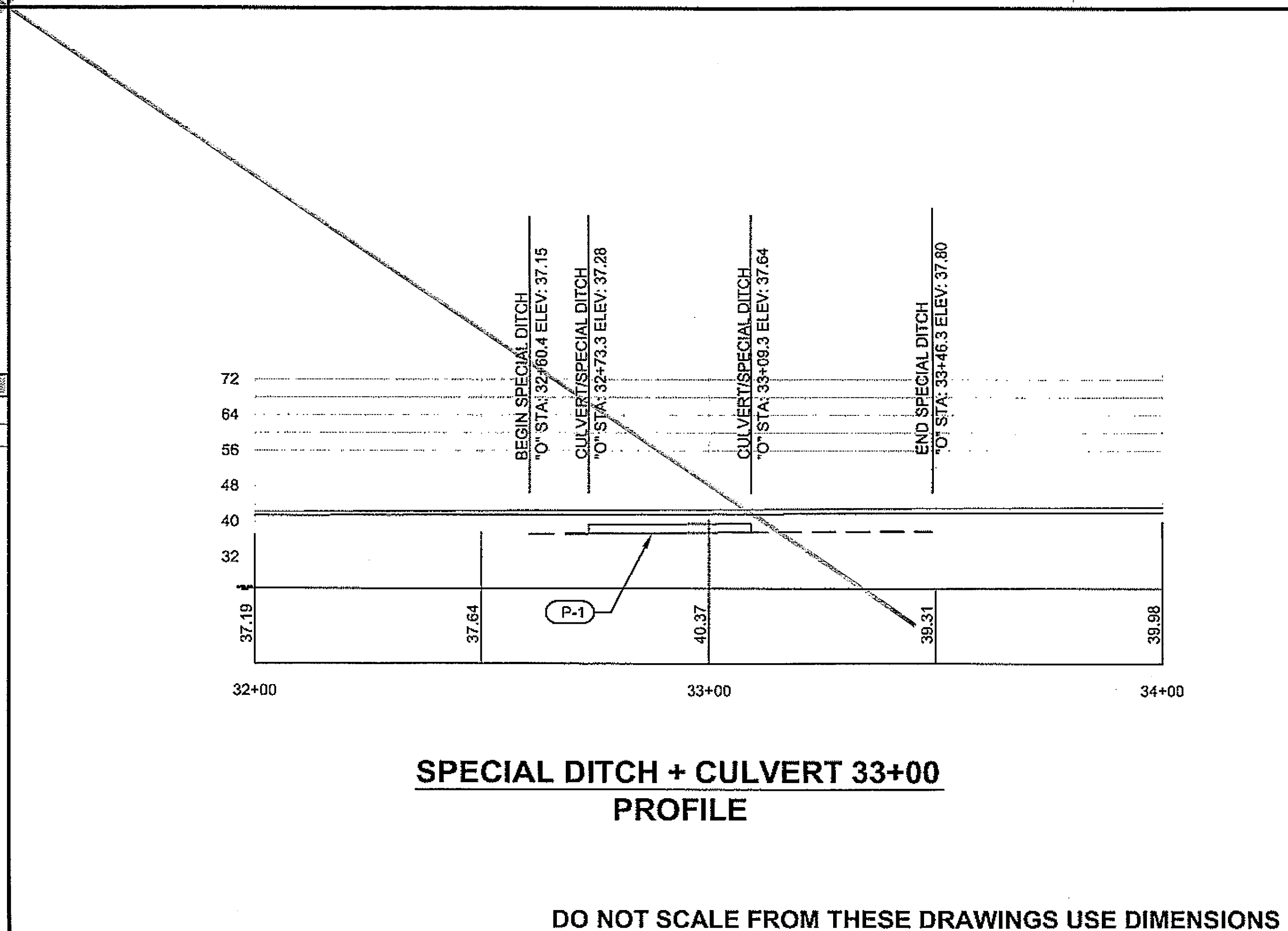
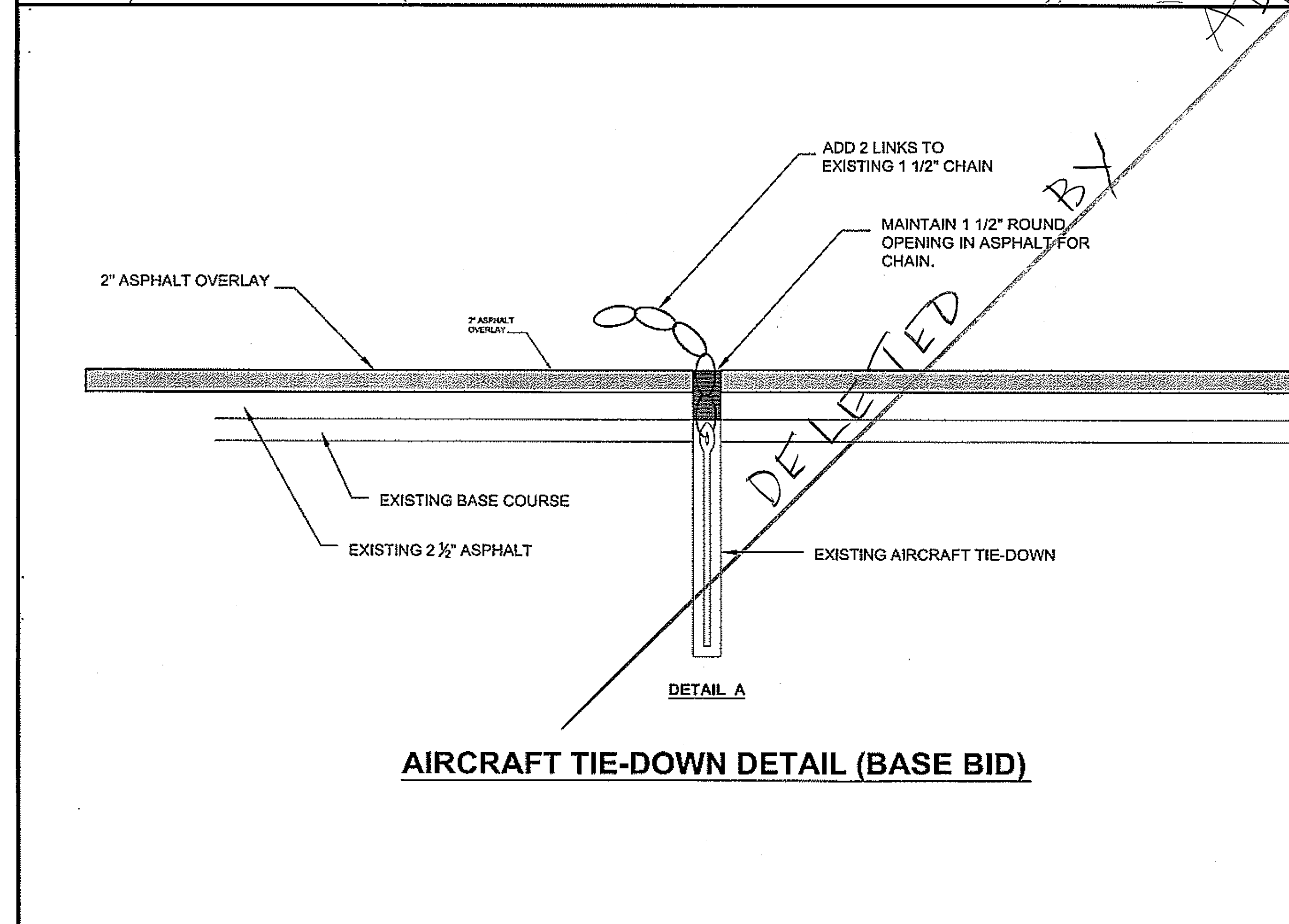
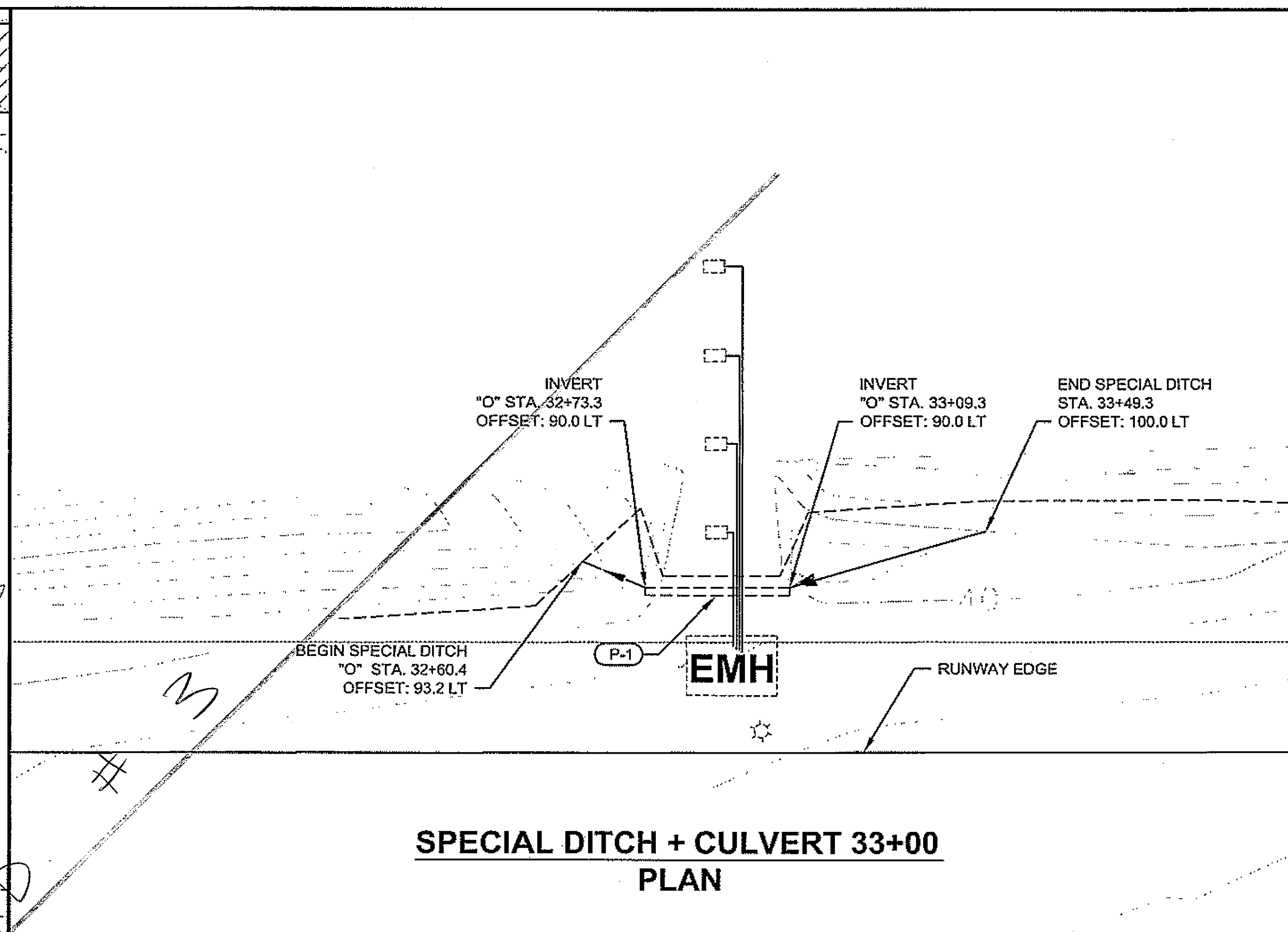
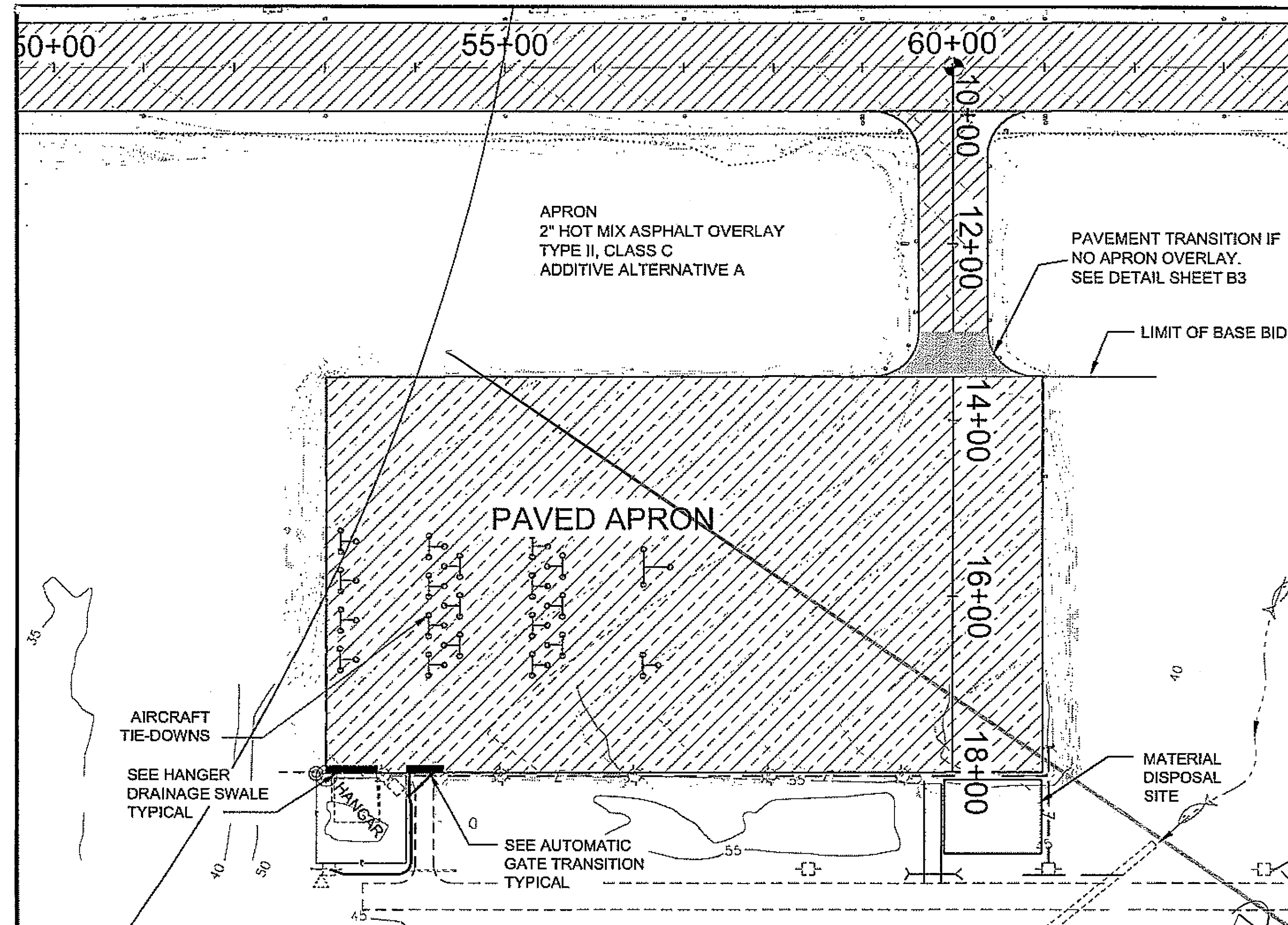
**KLAWOCK AIRPORT RUNWAY,
 TAXIWAY AND APRON
 IMPROVEMENTS**

PROJECT #68164
**RUNWAY 02/20
 PLAN & PROFILE**

PROJECT DESIGNATION#

DTFAWA-06-A-00013

STATE	YEAR
ALASKA	2007
SHEET NUMBER	TOTAL SHEETS
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RECORD OF REVISIONS

No.	DATE	DESCRIPTION

TAXIWAY & APRON PLAN & PROFILE

PLAN LEGEND

CHECKED BY: Chuck M. Tripp

DESIGNED BY: Chuck M. Tripp

DRAWN BY: BWB

STATE OF ALASKA
49th
Charles M. Tripp
CE 5913
REGISTERED PROFESSIONAL ENGINEER

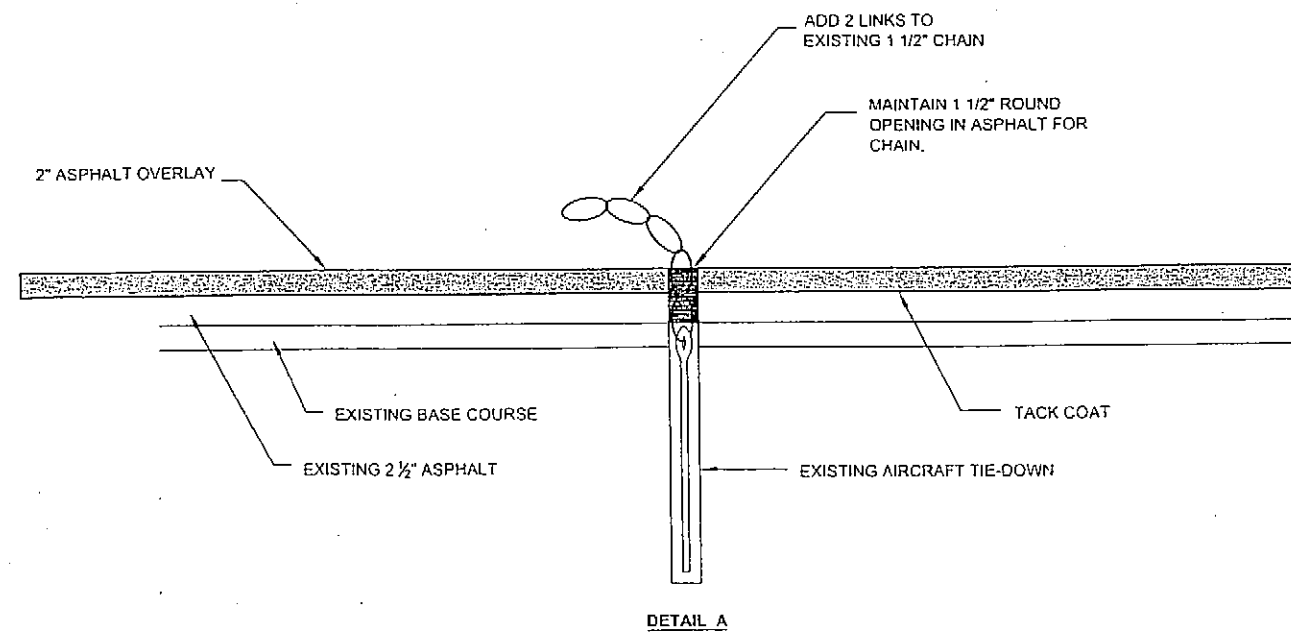
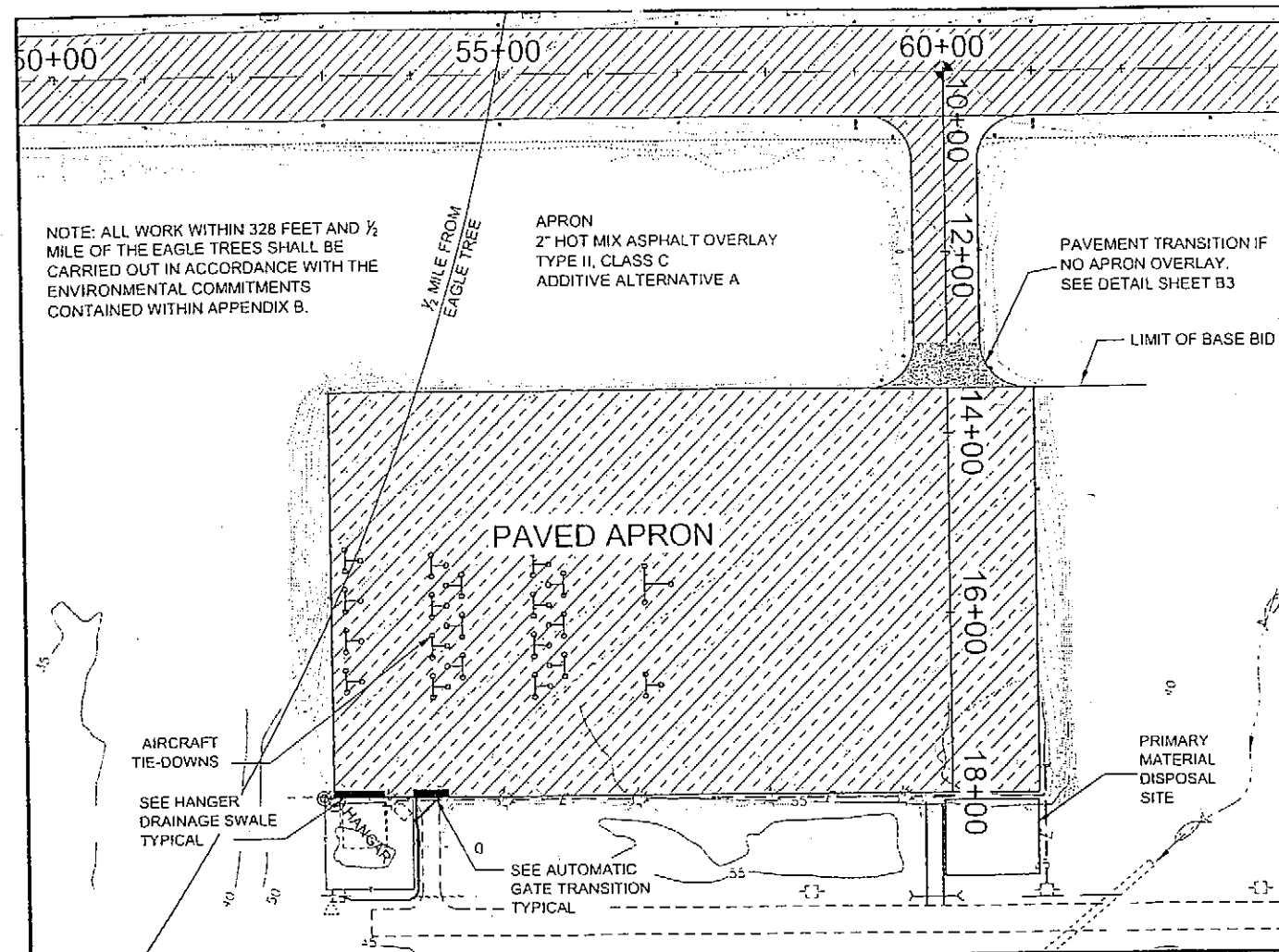
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& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION
KLAWOCK AIRPORT RUNWAY,
TAXIWAY AND APRON
IMPROVEMENTS

PROJECT #68164
**TAXIWAY & APRON
PLAN & PROFILE**

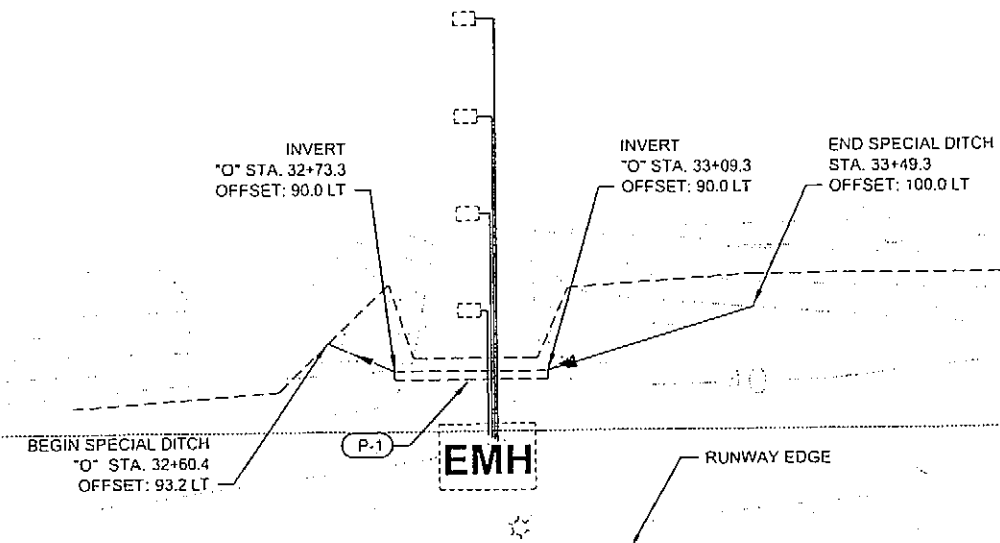
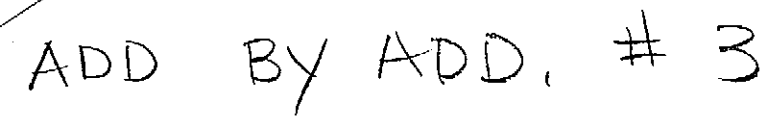
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STATE	YEAR
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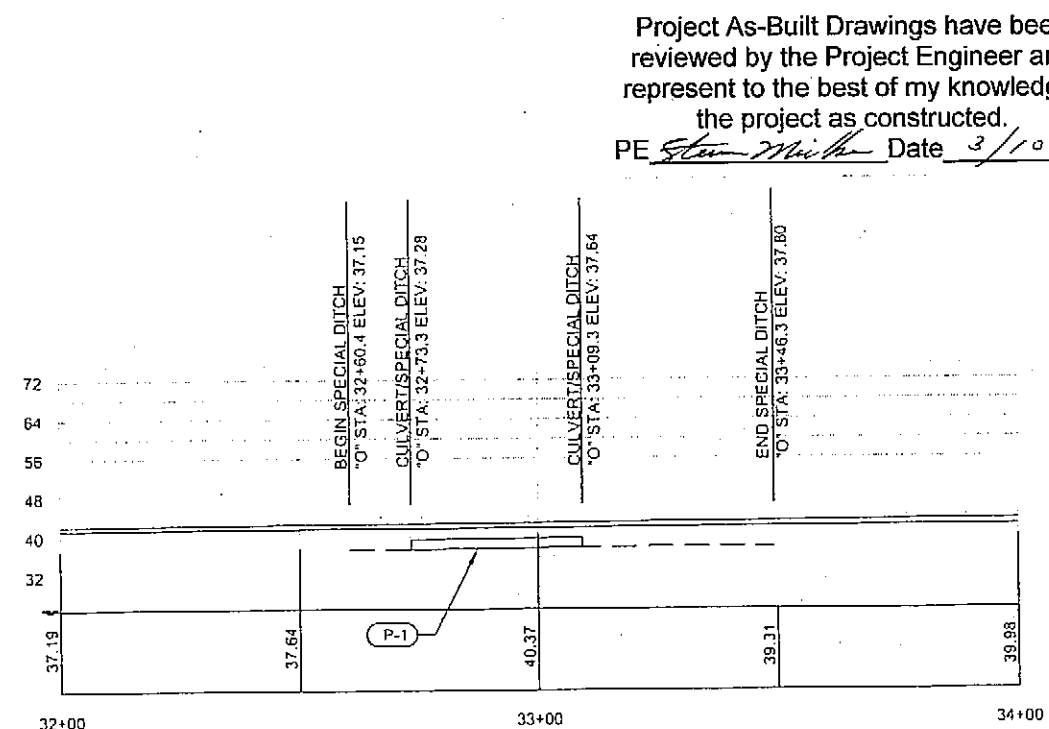
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F3	27



AIRCRAFT TIE-DOWN DETAIL (ADDITIVE ALTERNATE A)



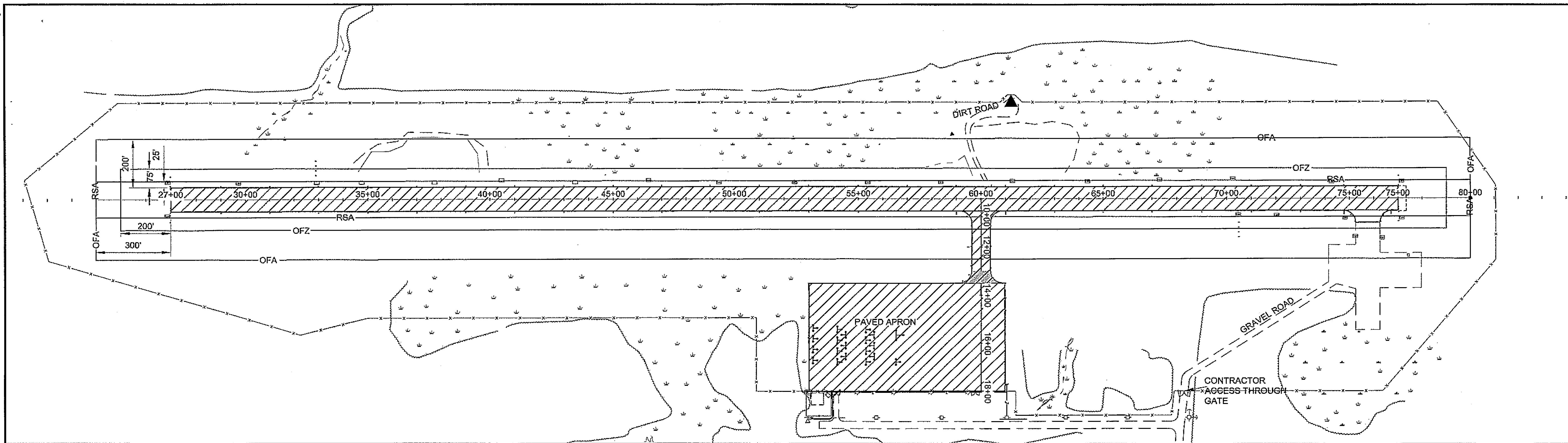
SPECIAL DITCH + CULVERT 33+00
PLAN



SPECIAL DITCH + CULVERT 33+00
PROFILE

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STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION KLAWOCK AIRPORT RUNWAY, TAXIWAY AND APRON IMPROVEMENTS PROJECT #68164 TAXIWAY & APRON PLAN & PROFILE		
PROJECT DESIGNATION		
DTFAWA-06-A-00013		
STATE	YEAR	
ALASKA	2007	
SHEET NUMBER	TOTAL SHEETS	
F3	28	



CONSTRUCTION SAFETY PLAN NOTES

- UNDER ALL CIRCUMSTANCES, SAFETY IS THE MOST IMPORTANT CONSIDERATION.
- ALL CONSTRUCTION ACTIVITY WITHIN LIMITS OF AOA, OFA AND RSA SHALL BE CARRIED OUT IN ACCORDANCE WITH AN APPROVED, CURRENT OPERATIONAL SAFETY PLAN.
- THE CONTRACTOR SHALL CONTINUOUSLY MONITOR CTAF 120.9 MHZ. ALL PERSONNEL AND EQUIPMENT SHALL BE CLEAR OF THE RSA, OFZ AND AOA BY THE TIME AIRCRAFT ARE ON FINAL APPROACH AND WHEN AIRCRAFT BEGIN TAXIING ABOUT THE AOA FOR DEPARTURE. THIS IS DETERMINED BY MONITORING THE CTAF AND VISUAL MONITORING OF THE AREA.
- NO EQUIPMENT MAY BE PARKED IN FRONT OF THE PAPI'S, OR OTHER NAVAIDS SO AS TO BLOCK VISUAL OR SIGNAL LANDING INFORMATION. ALL PERSONNEL AND EQUIPMENT MUST EXIT THE GLIDE-SLOPE AND LOCALIZER CRITICAL AREAS PRIOR TO AIRCRAFT RUNWAY OPERATION.
- ALL OTHERWISE PERMISSIBLE WORK OUTSIDE THE RSA, OFZ AND AOA MAY BE PERFORMED AT ANYTIME DURING THE CONTRACT. PERFORM ALL WORK PER THE REQUIREMENTS OF SECTION 80 OF THE SPECIFICATIONS.
- STORAGE OF MATERIALS AND PARKING OF EQUIPMENT WITHIN THE OFA AND WITHIN THE AOA WILL NOT BE ALLOWED.
- TEMPORARY MARKING MUST BE MONITORED FREQUENTLY AND IMMEDIATE ACTION TAKEN TO CORRECT IMPROPER ASPECTS.
- CONTRACTOR SHALL SUBMIT A CONSTRUCTION SEQUENCE PLAN TO THE ENGINEER FOR APPROVAL. ANY CHANGES TO THE CONSTRUCTION SEQUENCE PLAN MUST BE APPROVED IN WRITING. NO CLOSURES ARE PERMITTED EXCEPT IN ACCORDANCE WITH AN APPROVED CONSTRUCTION SEQUENCE PLAN.
- TEMPORARY AIRPORT MARKINGS MUST BE CLEARLY VISIBLE TO PILOTS, CONCISE AND NOT MISLEADING, CONFUSING OR DECEPTIVE. TEMPORARY MARKINGS MUST BE SECURED IN PLACE TO PREVENT MOVEMENT FROM PROP WASH, JET BLAST, WIND VORTICES, WIND CURRENTS OR WIND AND RAIN STORM SURGES.
- THE RSA DEFINITION BASED ON THE DIMENSIONS OF THE FUNCTIONING RUNWAY AS TEMPORARILY MODIFIED FOR FOR CONSTRUCTION EQUIPMENT AND MUST EVACUATE FROM WITHIN 300 FEET OF THE END OF THE RUNWAY WHEN AIRCRAFT ARE TAKING OFF OR LANDING.

DEFINITIONS

AOA - AIR OPERATIONS AREA - INCLUDES ALL AREAS OPEN TO MOVEMENT OF AIRCRAFT. ALL VEHICLES MUST BE APPROPRIATELY MARKED AND HAVE APPROPRIATE COMMUNICATIONS BEFORE ENTERING AREA

OFZ - OBSTACLE FREE ZONE - DIMENSIONS (250' WIDE+200' OFF EACH END OF RUNWAY) SEE RSA.

RSA - RUNWAY SAFETY AREA- DIMENSIONS (150' WIDE+EXTENDS 300' BEYOND EACH END OF THE FUNCTIONING RUNWAY) SEE NOTE J. NO MEN, EQUIPMENT OR MATERIALS PERMITTED WITHIN RSA/OFZ WHILE AIRCRAFT TAKING OFF OR LANDING.

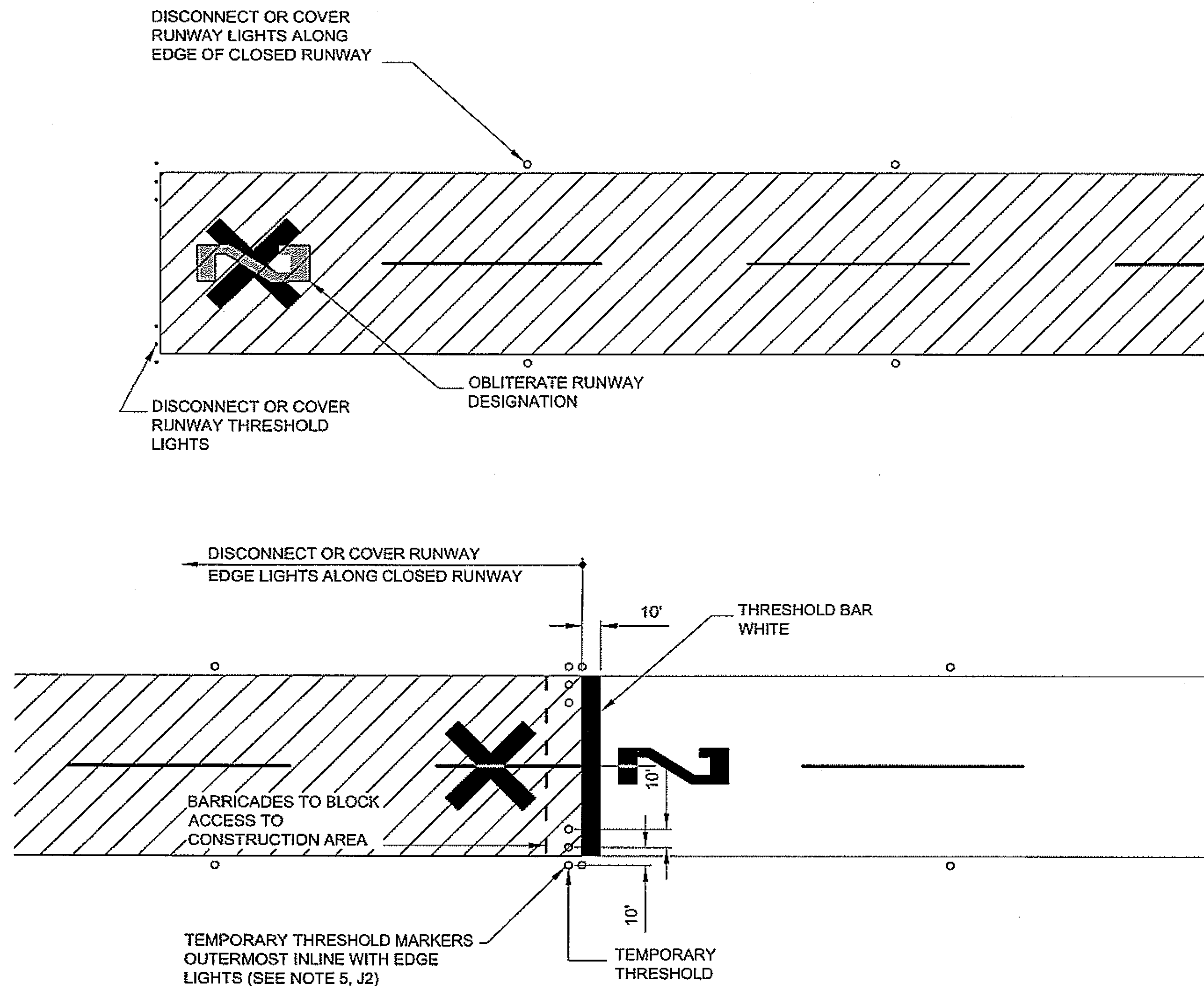
OFA - OBSTACLE FREE AREA- DIMENSIONS (500'WIDE+300'OFF EACH END OF RUNWAY) NO PARKED EQUIPMENT OR STORED MATERIALS ALLOWED.

 AOA - AIR OPERATIONS AREA

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

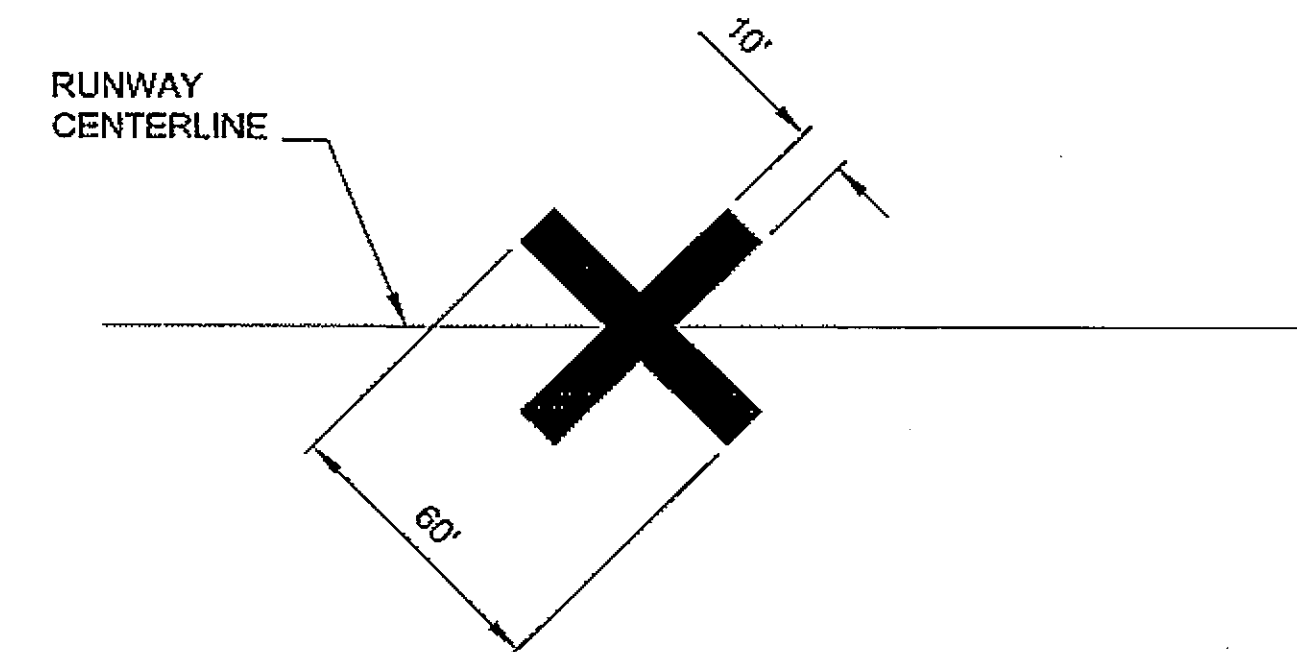
CHECKED BY: C. TRIPP 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION							
DESIGNED BY: C. TRIPP DRAWN BY: L. ROBERTSON		KLAWOCK AIRPORT RUNWAY, TAXIWAY AND APRON IMPROVEMENTS PROJECT No. 68164 Construction Safety Plan							
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NO.	DATE	DESCRIPTION							
		YEAR 2007	SHEET NO. J1						
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Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE *John M. Smith* Date 5/10

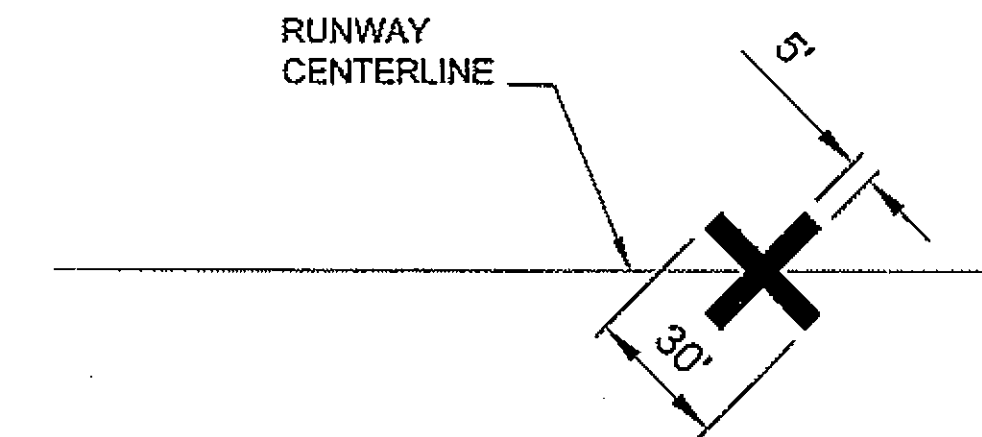


TEMPORARY RUNWAY CLOSURE NOTES:

1. CROSSES SHALL BE YELLOW, CONSTRUCTED OF PLASTIC AND WEIGHTED DOWN SO AS TO NOT BE MOVED BY WIND, PROP WASH OR JET BLAST.
2. CROSSES SHALL BE PLACED AT EACH END OF CLOSED PORTION OF RUNWAY OR TAXI WAY.
3. COVER OR DISABLE REIL AT CLOSED END OF RUNWAY.
4. COVER OR DISABLE EDGE LIGHTS ALONG EDGE OF CLOSED RUNWAY.
5. INDICATE TEMPORARY THRESHOLD WITH REFLECTIVE MARKERS AS SHOWN. ORIENT MARKERS SO THAT RED IS VISIBLE ON TAKEOFF AND THAT GREEN IS VISIBLE TO PILOTS APPROACHING TO LAND.



CLOSED RUNWAY



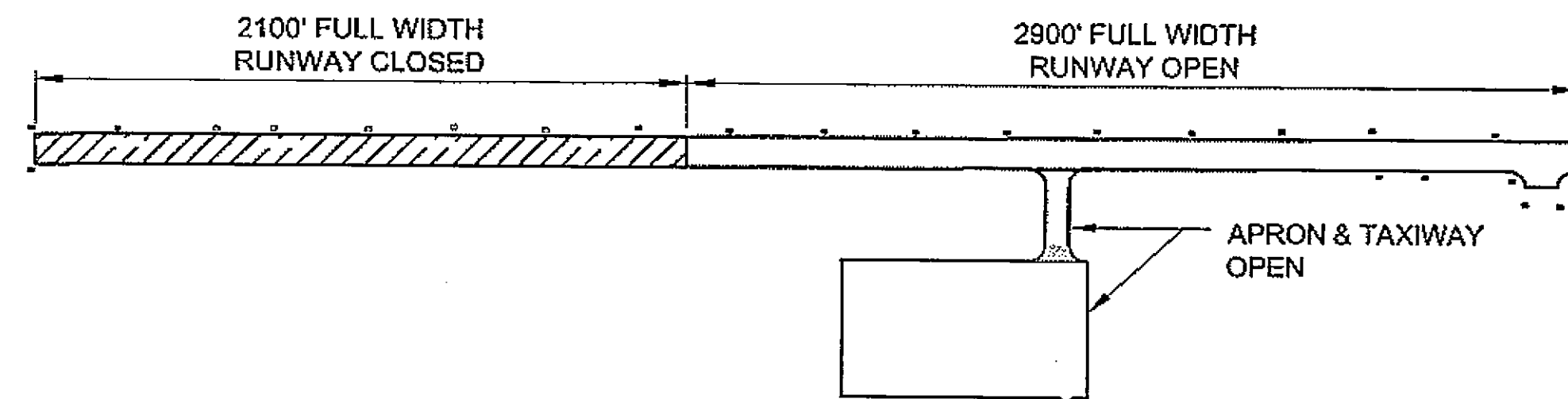
CLOSED TAXIWAY

TEMPORARY CLOSURE MARKINGS

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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YEAR 2007		SHEET NO. J2	TOTAL SHEETS 27 ²⁰						

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE *Steve Miller* Date *5/10*



DISCONNECT OR COVER
RUNWAY LIGHTS ALONG
EDGE OF CLOSED RUNWAY

DISCONNECT OR COVER RUNWAY
EDGE LIGHTS ALONG CLOSED RUNWAY

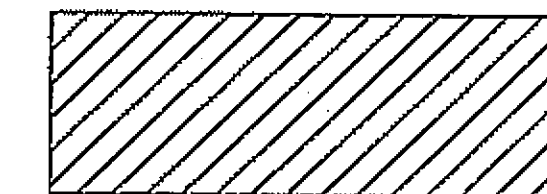
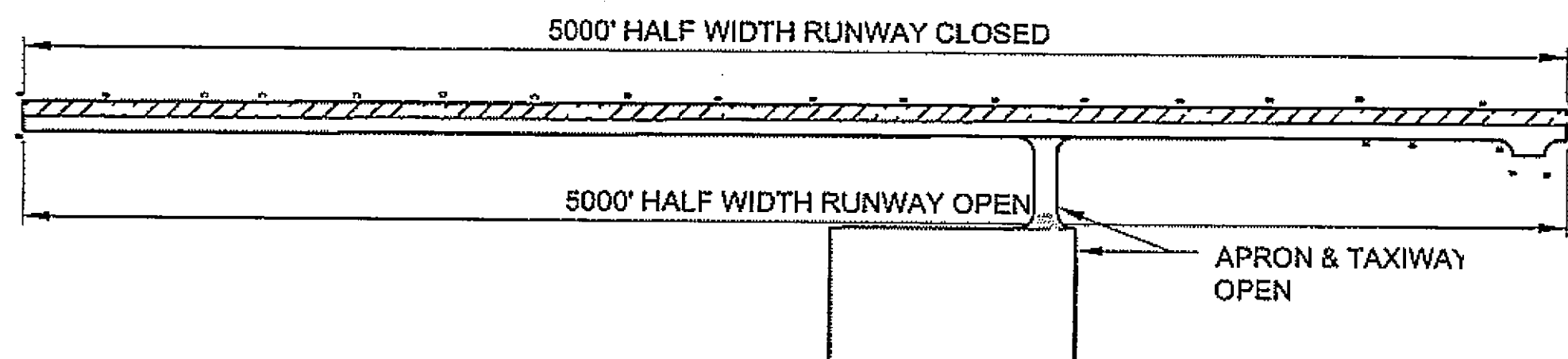
10' THRESHOLD BAR
WHITE

BARRICADES TO BLOCK
ACCESS TO
CONSTRUCTION AREA

TEMPORARY THRESHOLD MARKERS
OUTERMOST INLINE WITH EDGE
LIGHTS (SEE NOTE 5, J2)

10' TEMPORARY
THRESHOLD

RUNWAY CLOSURE PLAN (PHASE 1)



CLOSED RUNWAY/TAXIWAY

DISCONNECT OR COVER
RUNWAY EDGE LIGHTS ON
CLOSED SIDE OF RUNWAY

DISCONNECT OR COVER
RUNWAY THRESHOLD LIGHTS

TEMPORARY
EDGE LIGHT
SEE NOTE

BARRICADES @
100' C/C (TYP.)

HALF-SIZE RUNWAY DESIGNATION
FOR OPEN HALF OF RUNWAY

RUNWAY CLOSURE X
AT TAXIWAY

BARRICADES @ 20' C/C TO WITHIN
100' TAXIWAY

DISCONNECT OR COVER
RUNWAY EDGE LIGHTS ON
CLOSED SIDE OF RUNWAY

DISCONNECT OR COVER
RUNWAY THRESHOLD LIGHTS

TEMPORARY
EDGE LIGHT
SEE NOTE

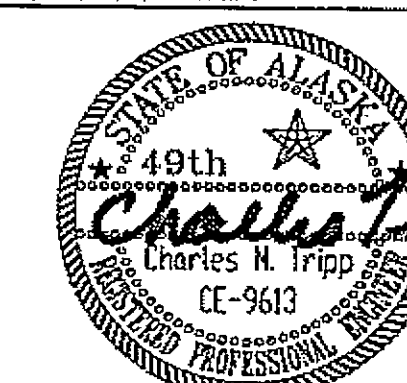
BARRICADES @
100' C/C (TYP.)

HALF-SIZE RUNWAY DESIGNATION
FOR OPEN HALF OF RUNWAY

RUNWAY CLOSURE PLAN (PHASE 2)

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C TRIPP



DESIGNED BY: C TRIPP

DRAWN BY: L. ROBERTSON

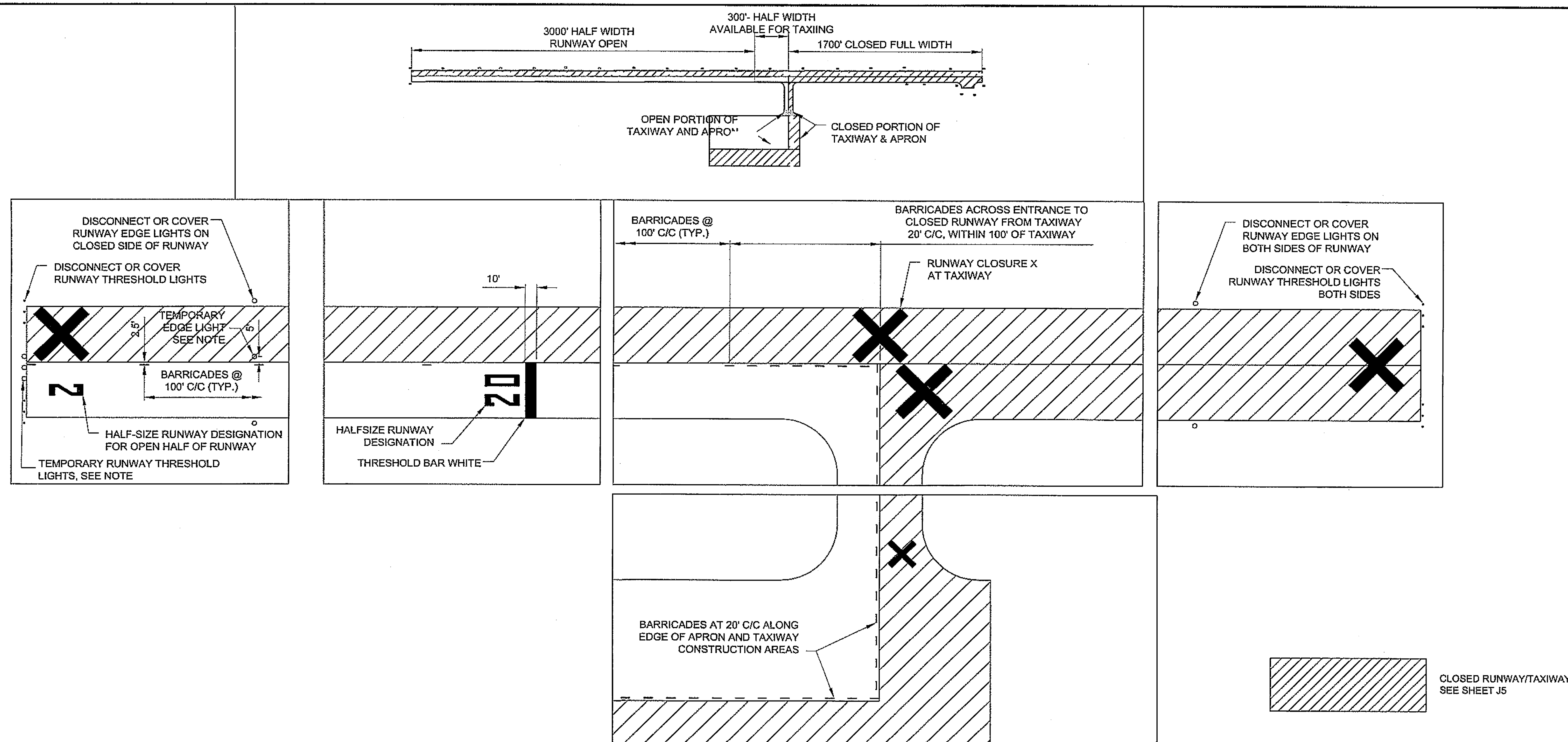
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION
**KLAWOCK AIRPORT RUNWAY,
TAXIWAY AND APRON
IMPROVEMENTS
PROJECT No. 68164
Construction
Safety Plan**

Project As-Built Drawings have been
reviewed by the Project Engineer and
represent to the best of my knowledge,
the project as constructed.
PE *[Signature]* Date *3/10*

REVISIONS			PROJECT DESIGNATION		YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	DTFAWA-06-A-00013		2007	J3	27 ²⁰

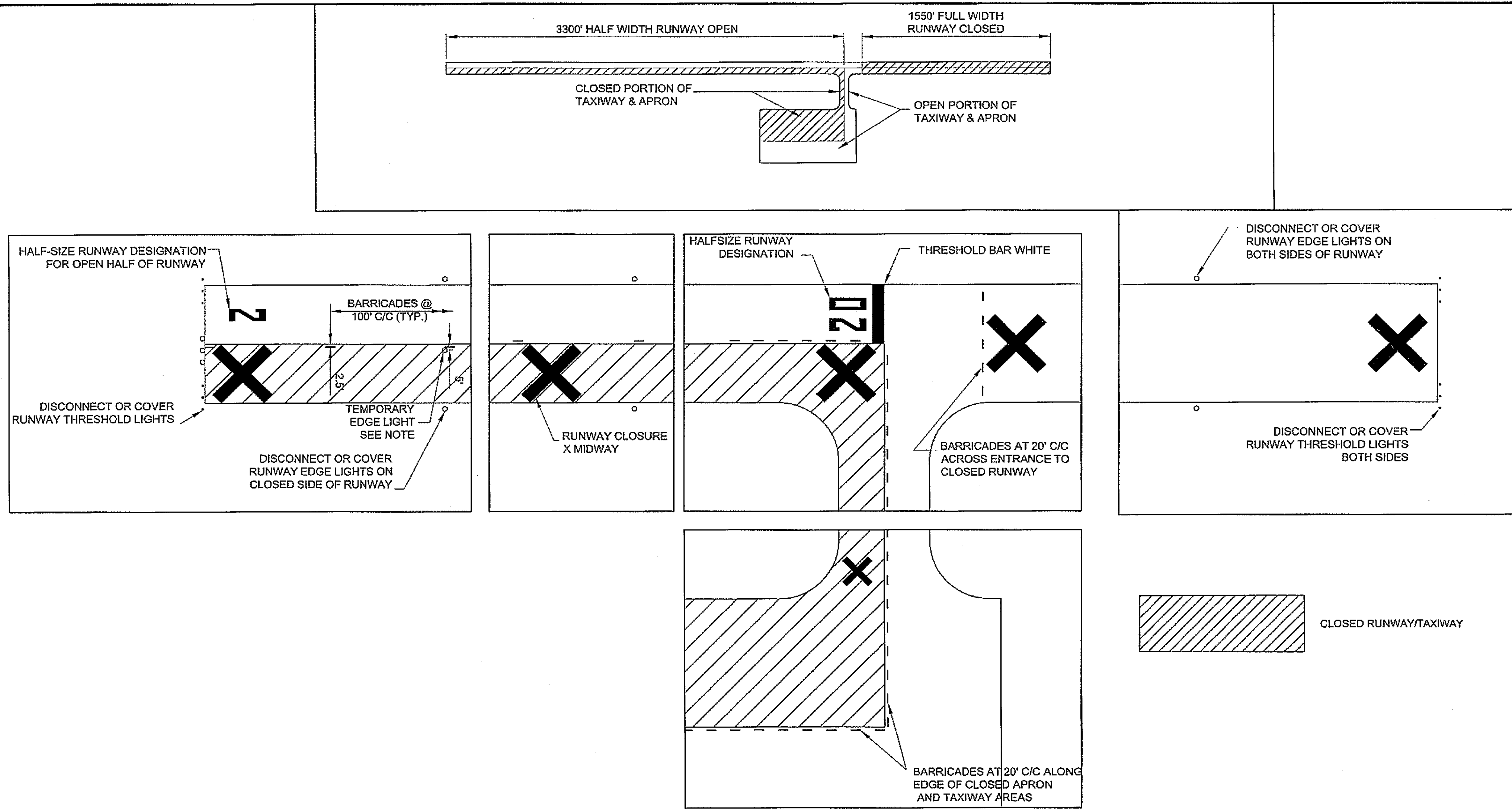


RUNWAY CLOSURE PLAN, PHASE 3

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

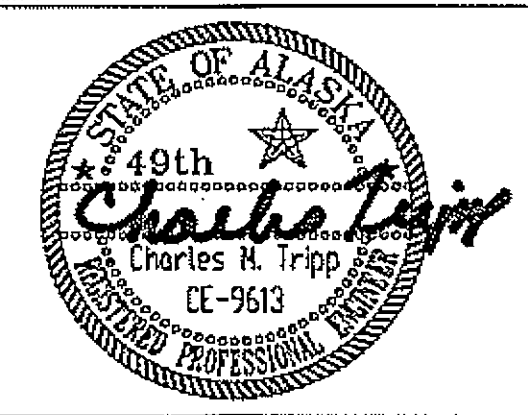
PE *[Signature]* Date *1/10*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS										
CHECKED BY: C. TRIPP 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION KLAWOCK AIRPORT RUNWAY, TAXIWAY AND APRON IMPROVEMENTS PROJECT No. 68164 Construction Safety Plan								
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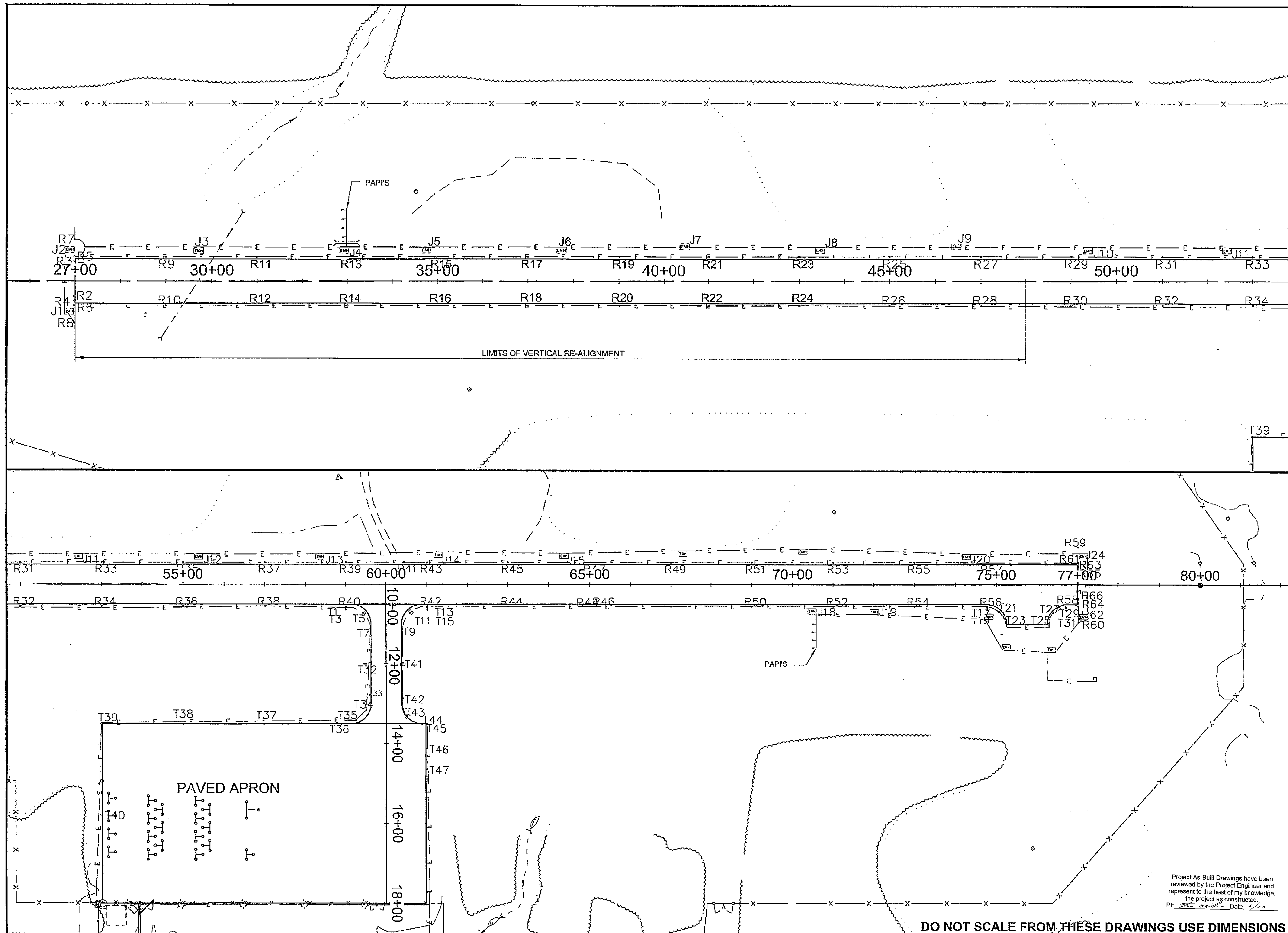


RUNWAY CLOSURE PLAN, PHASE 4

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. TRIPP  DESIGNED BY: C. TRIPP DRAWN BY: L. ROBERTSON		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION KLAWOCK AIRPORT RUNWAY, TAXIWAY AND APRON IMPROVEMENTS PROJECT No. 68164 Construction Safety Plan								
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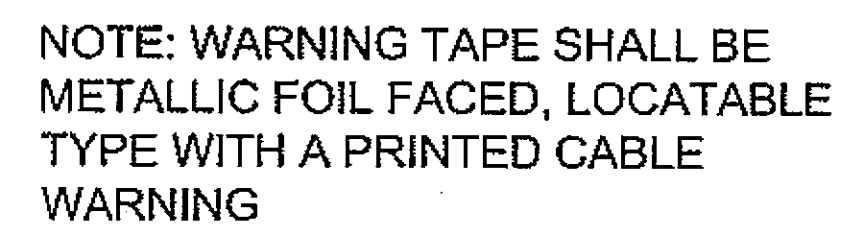
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE *Steve Miller* Date *4/10*



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ELECTRICAL & LIGHTING LAYOUT		
PLAN LEGEND		
CHECKED BY: FRANK MICHAEL CARSON		
DESIGNED BY: FRANK MICHAEL CARSON		
DRAWN BY: BWB		
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KLAWOCK AIRPORT RUNWAY, TAXIWAY AND APRON IMPROVEMENTS		
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STATE	YEAR	
ALASKA	2007	
SHEET NUMBER	TOTAL SHEETS	
K1	27 28	

Project As-Built Drawings have been
reviewed by the Project Engineer and
represent to the best of my knowledge,
the project as constructed.
PE *Frank Michael Carson* Date *5/17/07*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



#6 BCU GUARD WIRE

6'-0"

DRIVE GROUND ROD TO 12" BURY AND RE-CONNECT TO GUARD WIRE WITH EXOTHERMIC CONNECTION



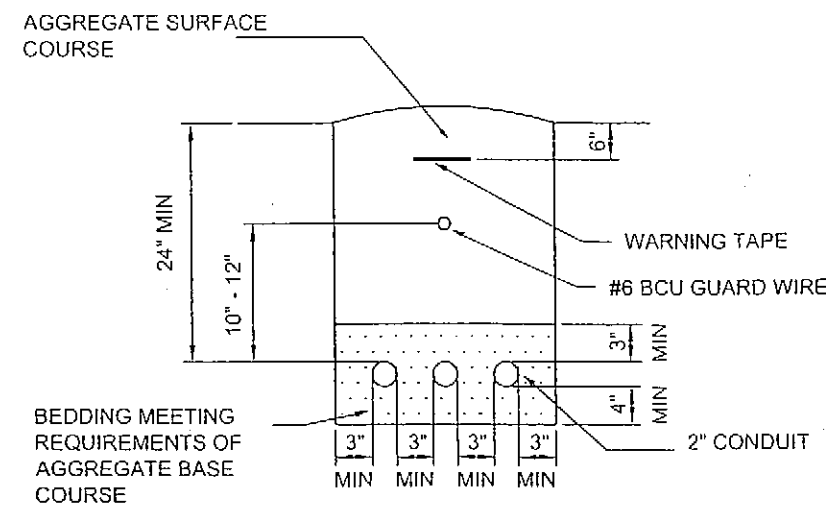
1. RUN CABLE CONTINUOUSLY THROUGH HANDHOLES AND LOOP PER DETAIL SHOWN. SPLICES TO BE MINIMIZED AND ONLY LOCATED AT A HANDHOLE. SPLICES SHALL BE FAA APPROVED.
2. CONNECT NEW #6 BCU GUARD WIRE TO EXISTING $\frac{3}{4}$ " X 10'-0" GROUND RODS SPACED EVERY 300 FT.
3. CONDUITS SHALL BE BURIED 24" MINIMUM AS MEASURED TO TOP OF CONDUIT. SEE TYPICAL TRENCH SECTION FOR DETAILS.



- NOTES:
1. THIS IS A TYPICAL TRENCH SECTION SHOWING MINIMUM DIMENSIONS AND REQUIRED MATERIALS. CONFIGURE ALL TRENCHES AS NECESSARY TO COMPLY WITH DIMENSIONS SHOWN.
 2. BURY ALL CONDUIT AT 18" MINIMUM BELOW FINISH GRADE UNLESS OTHERWISE NOTED.
 3. SLOPE CONDUIT AT 0.5% MIN. PER DETAIL ON SHEET K2.
 4. TRENCH BEDDING AND BACKFILL TO BE COMPACTED TO 95% MAXIMUM DENSITY PER CIVIL SPECIFICATIONS.
 5. SEE SCHEDULES ON SHEET K5 FOR NUMBER OF CONDUITS IN TRENCH.
 6. WHERE TRENCHING THROUGH EXISTING ASPHALT, PATCH ASPHALT PER SPECIFICATION.
 7. BEDROCK MAY BE ENCOUNTERED DURING EXCAVATION. SEE GEOTECH INFORMATION. TRENCH EXCAVATION AND REMOVAL OF THE BEDROCK IS INCIDENTAL TO THE EXCAVATION AND PAID FOR UNDER THE BID ITEM FOR THE CONDUIT. THIS INCLUDES RIPPING OR DRILLING AND BLASTING AND ALL OTHER WORK REQUIRED TO REMOVE THE BEDROCK TO THE REQUIRED EXCAVATION DEPTH.

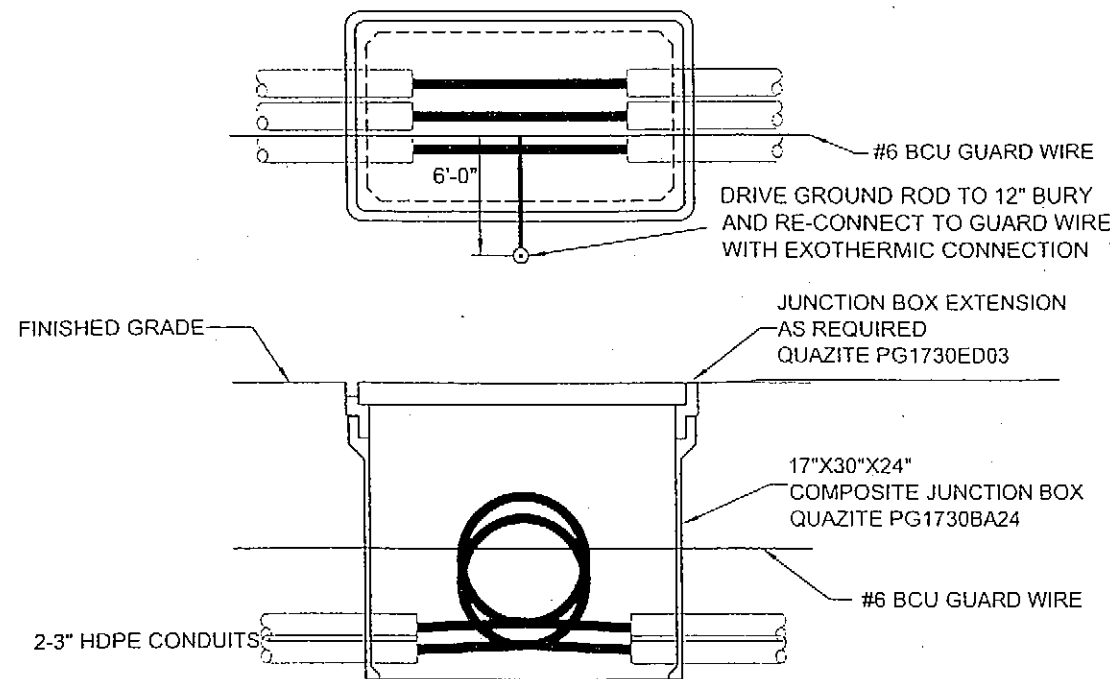
REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			DTFAWA-06-A-00013	2007	K3	27

ADD BY ADD. # 3



NOTE: WARNING TAPE SHALL BE METALLIC FOIL FACED, LOCATABLE TYPE WITH A PRINTED CABLE WARNING

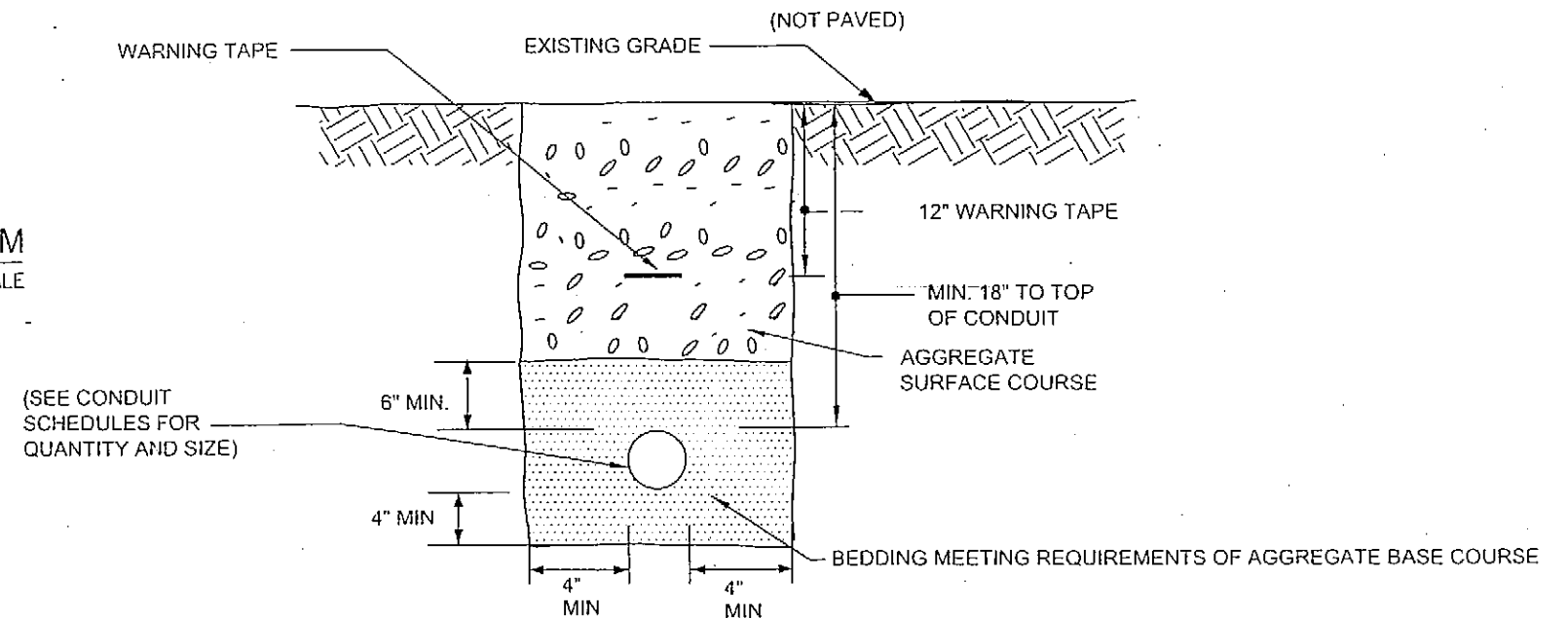
DETAIL: TYPICAL THREE CONDUIT SECTION FOR PAPI/REIL SYSTEM
NO SCALE



DETAIL: PAPI/REIL JUNCTION BOX
NO SCALE

NOTES:

1. RUN CABLE CONTINUOUSLY THROUGH HANDHOLES AND LOOP PER DETAIL SHOWN. SPLICES TO BE MINIMIZED AND ONLY LOCATED AT A HANDHOLE. SPLICES SHALL BE FAA APPROVED.
2. CONNECT NEW #6 BCU GUARD WIRE TO EXISTING $\frac{3}{4}$ " X 10'-0" GROUND RODS SPACED EVERY 300 FT.
3. CONDUITS SHALL BE BURIED 24" MINIMUM AS MEASURED TO TOP OF CONDUIT. SEE TYPICAL TRENCH SECTION FOR DETAILS.



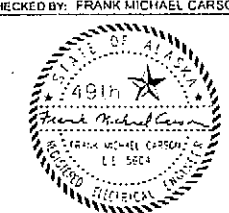
DETAIL: TYPICAL SINGLE CONDUIT TRENCH FOR RUNWAY LIGHTS
NO SCALE

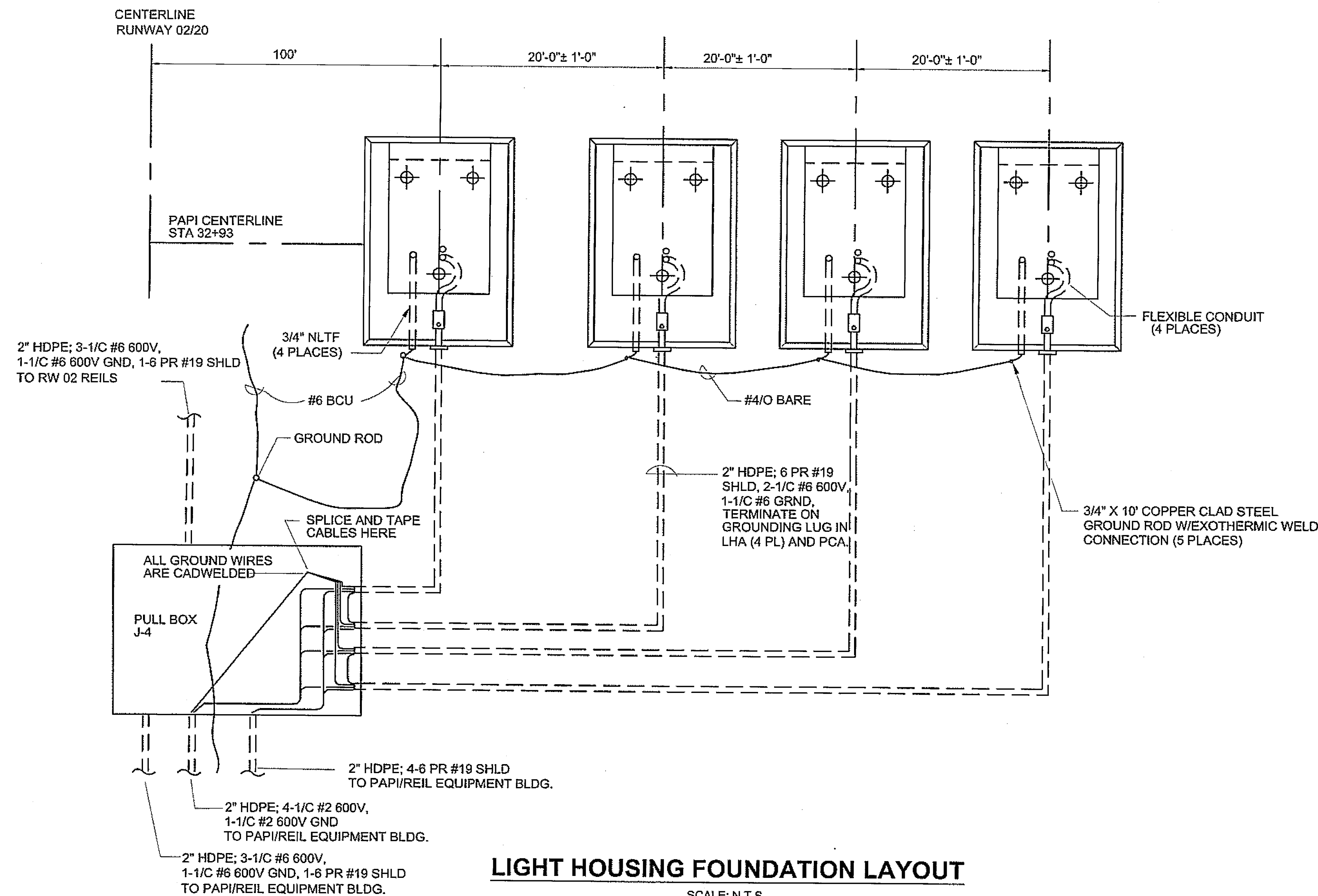
NOTES:

1. THIS IS A TYPICAL TRENCH SECTION SHOWING MINIMUM DIMENSIONS AND REQUIRED MATERIALS. CONFIGURE ALL TRENCHES AS NECESSARY TO COMPLY WITH DIMENSIONS SHOWN.
2. BURY ALL CONDUIT AT 18" MINIMUM BELOW FINISH GRADE UNLESS OTHERWISE NOTED.
3. SLOPE CONDUIT AT 0.5% MIN. PER DETAIL ON SHEET K2.
4. TRENCH BEDDING AND BACKFILL TO BE COMPACTED TO 95% MAXIMUM DENSITY PER CIVIL SPECIFICATIONS.
5. SEE SCHEDULES ON SHEET K5 FOR NUMBER OF CONDUITS IN TRENCH.
6. WHERE TRENCHING THROUGH EXISTING ASPHALT, PATCH ASPHALT PER SPECIFICATION.
7. BEDROCK MAY BE ENCOUNTERED DURING EXCAVATION. SEE GEOTECH INFORMATION. TRENCH EXCAVATION AND REMOVAL OF THE BEDROCK IS INCIDENTAL TO THE EXCAVATION AND PAID FOR UNDER THE BID ITEM FOR THE CONDUIT. THIS INCLUDES RIPPING OR DRILLING AND BLASTING AND ALL OTHER WORK REQUIRED TO REMOVE THE BEDROCK TO THE REQUIRED EXCAVATION DEPTH.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *Steve Walker* Date *3/1/0*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: FRANK MICHAEL CARSON 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION KLAWOCK AIRPORT RUNWAY, TAXIWAY AND APRON IMPROVEMENTS PROJECT No. 68164 Electrical & Lighting	
DESIGNED BY: FRANK MICHAEL CARSON DRAWN BY: L. ROBERTSON PATH: D:\Kiw\68164\PlanSet\K_ELECTRICAL.dwg TAB: Wed, 27/Jun/07 10:24AM brelas		PROJECT DESIGNATION YEAR SHEET NO. TOTAL SHEETS	
REVISIONS NO. DATE DESCRIPTION		DTFWA-06-A-00013 2007 K3 28	



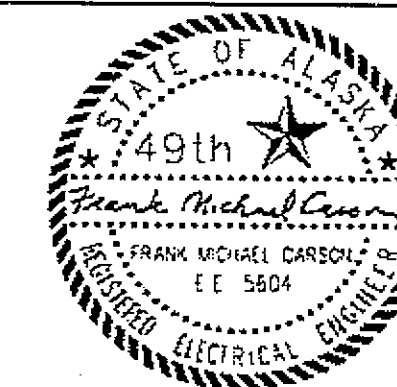
LIGHT HOUSING FOUNDATION LAYOUT

SCALE: N.T.S.

Project As-Built Drawings have been
reviewed by the Project Engineer and
represent to the best of my knowledge,
the project as constructed.
PE *Steve Smith* Date *3/10*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: FRANK MICHAEL CARSON



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

KLAWOCK AIRPORT RUNWAY,
TAXIWAY AND APRON
IMPROVEMENTS
PROJECT No. 68164

**Electrical &
Lighting**

DESIGNED BY: FRANK MICHAEL CARSON

DRAWN BY: L. ROBERTSON

PATH: Q:\Klw\68164\PlanSet\K_ELECTRICAL.dwg

TAB: Thu, 17/May/07 01:58PM brelia

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			DTFAWA-06-A-00013	2007	K4	27/30

RUNWAY/TAXIWAY LIGHT ADJUSTMENT SCHEDULE			
UNIT NUMBER	STATION	OFFSET	ESTIMATED GRADE CHANGE
R1	26+98.0	35.6 LT	0.1
R3	26+98.2	45.6 LT	0.1
R5	26+98.4	55.2 LT	0.1
R7	26+98.4	94.4 LT	<0.1
R9	29+00.2	54.8 LT	<0.1
R25	45+00.0	55.3 LT	0.1
R27	47+00.1	55.5 LT	<0.1
R29	49+00.8	55.6 LT	0.2
R31	51+00.6	55.2 LT	0.2
R33	53+00.5	55.4 LT	<0.1
R35	55+00.4	55.1 LT	0.1
R37	57+00.4	55.1 LT	0.2
R39	59+00.3	55.1 LT	0.2
R41	60+43.4	55.7 LT	0.1
R43	61+00.4	55.0 LT	0.1
R51	69+01.1	54.9 LT	0.1
R53	71+00.7	54.8 LT	0.1
R55	73+00.4	54.9 LT	<0.1
R57	74+77.3	54.9 LT	<0.1
R59	77+02.2	94.1 LT	<0.1
R61	77+02.6	54.8 LT	0.1
R63	77+02.6	44.8 LT	0.1
R65	77+02.6	34.6 LT	0.1
R2	26+98.4	34.6 RT	0.1
R4	26+98.3	44.5 RT	0.1
R6	26+98.2	54.4 RT	0.1
R8	26+97.8	93.7 RT	-0.1
R10	29+00.5	55.0 RT	-0.1
R26	45+00.0	54.9 RT	0.2
R28	47+00.0	54.8 RT	0.2
R30	49+00.7	54.7 RT	0.1
R32	51+00.5	55.0 RT	0.1
R34	53+00.6	54.9 RT	0.1
R36	55+00.4	55.0 RT	<0.1
R38	57+00.6	54.8 RT	<0.1
R46	65+00.5	55.3 RT	<0.1
R48	67+00.2	55.5 RT	<0.1
R50	69+00.3	55.3 RT	<0.1
R52	71+00.6	55.4 RT	0.1
R54	73+00.3	55.2 RT	0.1

RUNWAY/TAXIWAY LIGHT ADJUSTMENT SCHEDULE (CONT)			
UNIT NUMBER	STATION	OFFSET	ESTIMATED GRADE CHANGE
R56	74+77.5	55.4 RT	0.1
R58	76+71.0	55.4 RT	<0.1
R60	77+02.4	94.6 RT	<0.1
R62	77+02.6	55.5 RT	0.1
R64	77+02.6	45.6 RT	0.1
R66	77+02.5	35.6 RT	0.1
T3	59+00.2	63.2 RT	<0.1
T5	59+42.2	72.0 RT	<0.1
T17	74+77.5	58.5 RT	<0.1
T19	74+77.4	63.7 RT	<0.1
T27	76+39.7	70.5 RT	0.1
T29	76+71.2	58.7 RT	<0.1
T31	76+71.3	63.6 RT	<0.1

JUNCTION BOX ADJUSTMENT SCHEDULE			
UNIT NUMBER	STATION	OFFSET	ESTIMATED GRADE CHANGE
J8	43+46	70 LT	0.3
J9	46+46	78 LT	0.3
J10	49+37	69 LT	0.7
J11	52+43	70 LT	0.2
J12	55+38	69 LT	0.5
J13	58+36	70 LT	0.3
J14	61+28	74 LT	0.3
J15	64+37	72 LT	0.4
J18	70+48	67 RT	0.2
J19	72+01	71 RT	0.1
J20	74+26	70 LT	0.4
J24	77+15	72 LT	0.2

NOTE:

FIELD VERIFY REIL LAMP ELEVATIONS IN
ACCORDANCE WITH FAA ORDER 6850.2A.401.
PLACE CENTERLINE OF LAMP UNITS AT 1'-0"
ABOVE RUNWAY CENTERLINE ELEVATION.

Project As-Built Drawings have been
reviewed by the Project Engineer and
represent to the best of my knowledge,
the project as constructed.
PE *Frank Michael Carson* Date *1/10*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS			
CHECKED BY: FRANK MICHAEL CARSON		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION	
		KLAWOCK AIRPORT RUNWAY, TAXIWAY AND APRON IMPROVEMENTS PROJECT No. 68164 Electrical & Lighting	
DESIGNED BY: FRANK MICHAEL CARSON			
DRAWN BY: L. ROBERTSON			
PATH: Q:\K1w\68164\Plotset\K_ELECTRICAL.dwg		brllics	
TAB: Thu, 17/May/07 01:58PM			
REVISIONS		PROJECT DESIGNATION	YEAR
NO.	DATE	DESCRIPTION	
		DTFAWA-06-A-00013	2007
		SHEET NO.	TOTAL SHEETS
		K5	27

RUNWAY LIGHT SYSTEM REPLACEMENT SCHEDULE																
REFER TO SHEET K1-K3 FOR DETAILS																
UNIT NO.	STATION	OFFSET	GRADE CHANGE	BACK DISTANCE	LIGHT ASSEMBLY				UNDERGROUND CABLE WITH GROUND				UNDERGROUND CONDUIT			REMARKS
					FIXTURE TYPE	12" DIA x 24" BASE TYPE	TRANSF. TYPE	LENS	5000 V CABLE SIZE/TYPE	GROUND SIZE/TYPE	CABLE/GRD LENGTH	CONNECTORS 2 REQD	CONDUIT SIZE/SCH.	CONDUIT TYPE	CONDUIT LENGTH	
R 11	31+00.2	54.9 LT	-0.6	200.0	((L-861))	L-867 IA	((L-830-4))	(WH)	#8 L-824 B or C	#6 XHHW	210	L-823 I	2" SCH 40	HDPE	200	
R 13	33+00.1	55.0 LT	-1.2	199.9	((L-861))	L-867 IA	((L-830-4))	(WH)	#8 L-824 B or C	#6 XHHW	210	L-823 I	2" SCH 40	HDPE	200	
R 15	35+00.1	55.0 LT	-1.7	200.0	((L-861))	L-867 IA	((L-830-4))	(WH)	#8 L-824 B or C	#6 XHHW	210	L-823 I	2" SCH 40	HDPE	200	
R 17	37+00.3	55.0 LT	-1.7	200.2	((L-861))	L-867 IA	((L-830-4))	(WH)	#8 L-824 B or C	#6 XHHW	210	L-823 I	2" SCH 40	HDPE	200	
R 19	39+01.1	55.0 LT	-1.5	200.8	((L-861))	L-867 IA	((L-830-4))	(WH)	#8 L-824 B or C	#6 XHHW	210	L-823 I	2" SCH 40	HDPE	200	
R 21	41+01.6	55.2 LT	-0.8	200.5	((L-861))	L-867 IA	((L-830-4))	(WH)	#8 L-824 B or C	#6 XHHW	210	L-823 I	2" SCH 40	HDPE	200	
R 23	43+00.3	55.1 LT	-0.4	198.7	((L-861))	L-867 IA	((L-830-4))	(WH)	#8 L-824 B or C	#6 XHHW	210	L-823 I	2" SCH 40	HDPE	200	
R 25	45+00.0	55.3 LT	0.1	199.7	((L-861))	L-867 IA	((L-830-4))	(WH)	#8 L-824 B or C	#6 XHHW	210	L-823 I	2" SCH 40	HDPE	200	
R 12	31+00.4	55.0 RT	-0.8	199.9	((L-861))	L-867 IA	((L-830-4))	(WH)	#8 L-824 B or C	#6 XHHW	210	L-823 I	2" SCH 40	HDPE	200	
R 14	33+00.5	55.1 RT	-1.1	200.1	((L-861))	L-867 IA	((L-830-4))	(WH)	#8 L-824 B or C	#6 XHHW	210	L-823 I	2" SCH 40	HDPE	200	
R 16	35+00.5	55.0 RT	-1.5	200.0	((L-861))	L-867 IA	((L-830-4))	(WH)	#8 L-824 B or C	#6 XHHW	210	L-823 I	2" SCH 40	HDPE	200	
R 18	37+00.6	55.0 RT	-1.4	200.1	((L-861))	L-867 IA	((L-830-4))	(WH)	#8 L-824 B or C	#6 XHHW	210	L-823 I	2" SCH 40	HDPE	200	
R 20	39+00.7	55.1 RT	-1.4	200.1	((L-861))	L-867 IA	((L-830-4))	(WH)	#8 L-824 B or C	#6 XHHW	210	L-823 I	2" SCH 40	HDPE	200	
R 22	41+00.6	55.3 RT	-0.8	199.9	((L-861))	L-867 IA	((L-830-4))	(WH)	#8 L-824 B or C	#6 XHHW	210	L-823 I	2" SCH 40	HDPE	200	
R 24	43+00.4	55.0 RT	-0.3	199.8	((L-861))	L-867 IA	((L-830-4))	(WH)	#8 L-824 B or C	#6 XHHW	210	L-823 I	2" SCH 40	HDPE	200	
R 26	45+00.0	54.0 RT	0.2	199.6	((L-861))	L-867 IA	((L-830-4))	(WH)	#8 L-824 B or C	#6 XHHW	210	L-823 I	2" SCH 40	HDPE	200	

L-100u Additional J-Box Extensions (C.O. #3)

Additional J-Box Adjustment Schedule (FAA)			
Unit Number	Station & Offset	Frame Size	Grade Change
J3	29+75, 70 LT	(STD) 32.75x19.75	+6"
J11	52+43, 70 LT	" "	+3"
J12	55+38, 68 LT	" "	+6"
J13	58+36, 70 LT	" "	+3"
J14	61+28, 74, LT	" "	+6"
J15	64+37, 72, LT	" "	+3"
J16	67+30, 72 LT	" "	+9"
J17	70+30, 72 LT	" "	+6"
J18	70-48, 67 RT	(Large) 37.875x26.25	+4"
J19	72+01, 71 RT	(STD) 32.75x19.75	+3"
J20	74+26, 70 LT	" "	+3"
J21	74+70, 72 RT	" "	+3"
J24	77+15, 72 LT	" "	+3"

Total: 18 each - 3" Standard Risers
1 each - 4" Large Frame Riser

PAPI-REIL SYSTEM HANDHOLE REPLACEMENT SCHEDULE																	
REFER TO SHEET K1-K3 FOR DETAILS																	
UNIT NO.	STATION	OFFSET	GRADE CHANGE	BACK DISTANCE	HANDHOLE		UNDERGROUND CABLES WITH GROUND						UNDERGROUND CONDUIT				REMARKS
					SIZE	QUASITE TYPE	CONDUIT 1 SIZE/TYPE PAPI	CONDUIT 2 SIZE/TYPE PAPI	CONDUIT 3 SIZE/TYPE REIL	GUARD WIRE SIZE/TYPE	CABLES/GRD LENGTH	CONNECTORS OR AS REQUIRED	NUMBER CONDUITS	CONDUIT SIZE/TYPE	CONDUIT TYPE	CONDUIT LENGTH	
J 4*	32+93	70 LT	-0.9	322	((17X30X24))	((PG1730BA24))			4-#6 XHHW 1-6PR-19GA	#6 BC	335	4-BURNDY YS6C 5-BURNDY YS2C 9-TycoWCSM206S 5-3M8983-8882	3	2" SCH 40	HDPE	325	
J 5	34+76	70 LT	-1.5	183	((17X30X24))	((PG1730BA24))	4-6PR-19GA	5-#2 XHHW	4-#6 XHHW 1-6PR-19GA	#6BC	195		3	2" SCH 40	HDPE	185	
J 6	37+74	70 LT	-1.3	298	((17X30X24))	((PG1730BA24))	4-6PR-19GA	5-#2 XHHW	4-#6 XHHW 1-6PR-19GA	#6BC	310	4-BURNDY YS6C 5-BURNDY YS2C 9-TycoWCSM206S 5-3M8983-8882	3	2" SCH 40	HDPE	300	
J 7	40+49	80 LT	-0.3	275	((17X30X24))	((PG1730BA24))	4-6PR-19GA	5-#2 XHHW	4-#6 XHHW 1-6PR-19GA	#6BC	285		3	2" SCH 40	HDPE	275	
J 8	43+46	70 LT	0.3	297	((17X30X24))	((PG1730BA24))	4-6PR-19GA	5-#2 XHHW	4-#6 XHHW 1-6PR-19GA	#6BC	310	4-BURNDY YS6C 5-BURNDY YS2C 9-TycoWCSM206S 5-3M8983-8882	3	2" SCH 40	HDPE	300	

SYMBOLS: REMOVE AND REPLACE WITH NEW UNIT
(EXISTING - RETAIN)
(EXISTING - REMOVE & REINSTALL EXISTING UNIT)

* THE LOWERING OF CONDUCT AND CONDUCTORS FEEDING THE PAPI'S FROM J4 SHALL BE CONSIDERED INCIDENTAL.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *Steve Miller* Date *3/10*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: FRANK MICHAEL CARSON



DESIGNED BY: FRANK MICHAEL CARSON

DRAWN BY: L. ROBERTSON

PATH: O:\Klw\68164\PlanSet\K_ELECTRICAL.dwg

TAB: Thu, 17/May/07 01:58PM

REVISIONS

NO. DATE DESCRIPTION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

KLAWOCK AIRPORT RUNWAY,
TAXIWAY AND APRON
IMPROVEMENTS
PROJECT No. 68164
Electrical & Lighting

PROJECT DESIGNATION

DTFAWA-06-A-00013

YEAR

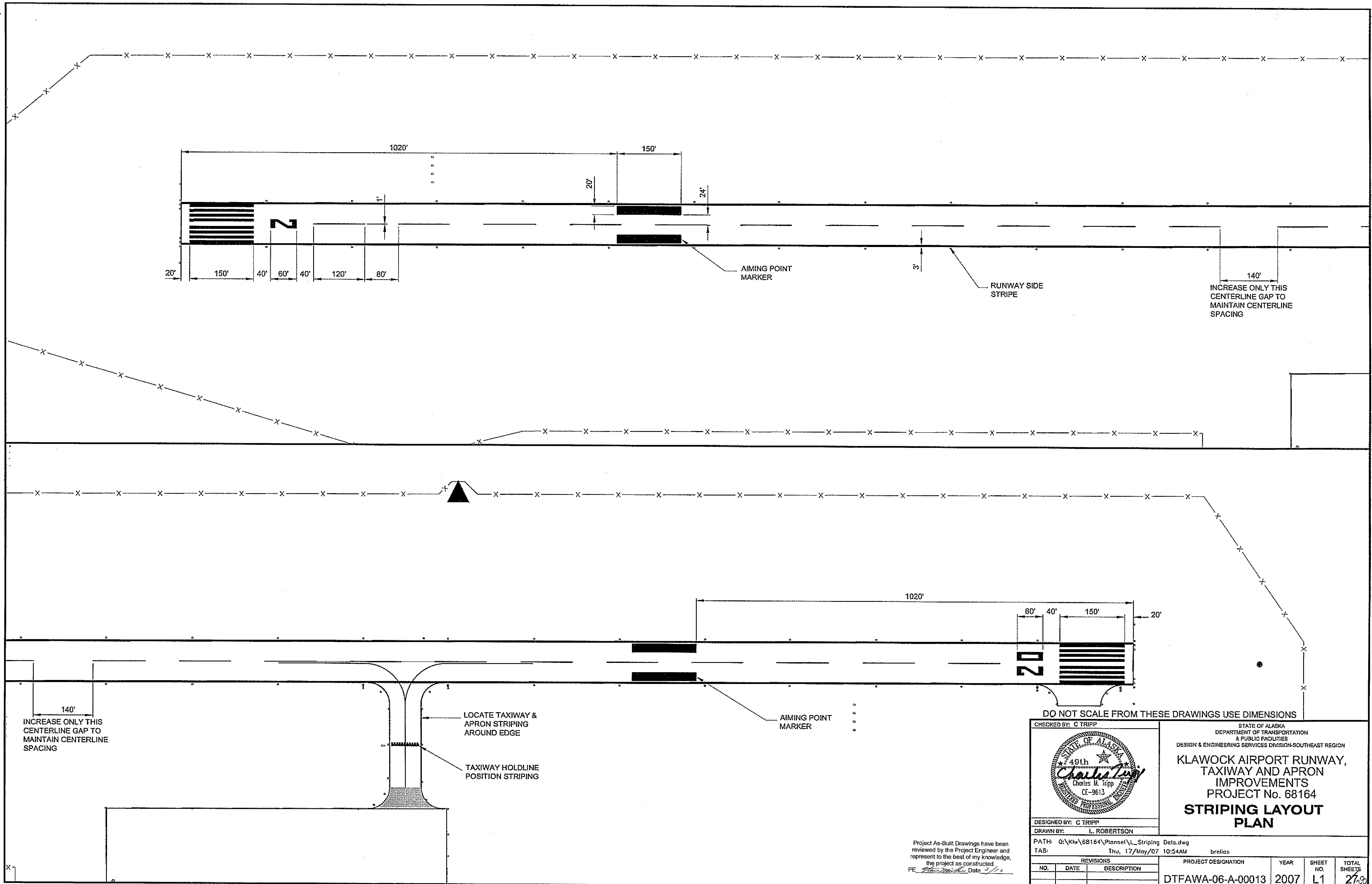
2007

SHEET NO.

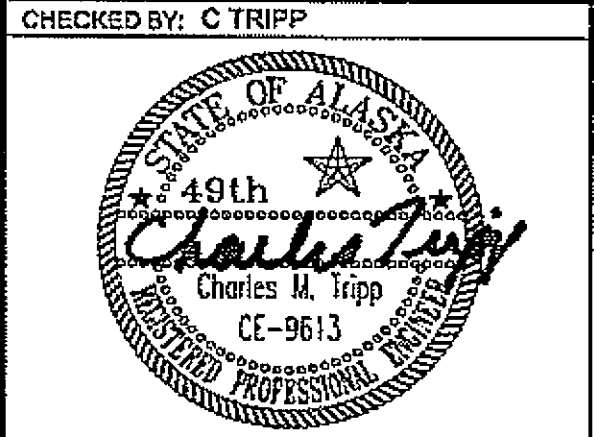
K6

TOTAL SHEETS

27/28



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION

**KLAWOCK AIRPORT RUNWAY,
TAXIWAY AND APRON
IMPROVEMENTS
PROJECT No. 68164
STRIPING LAYOUT
PLAN**

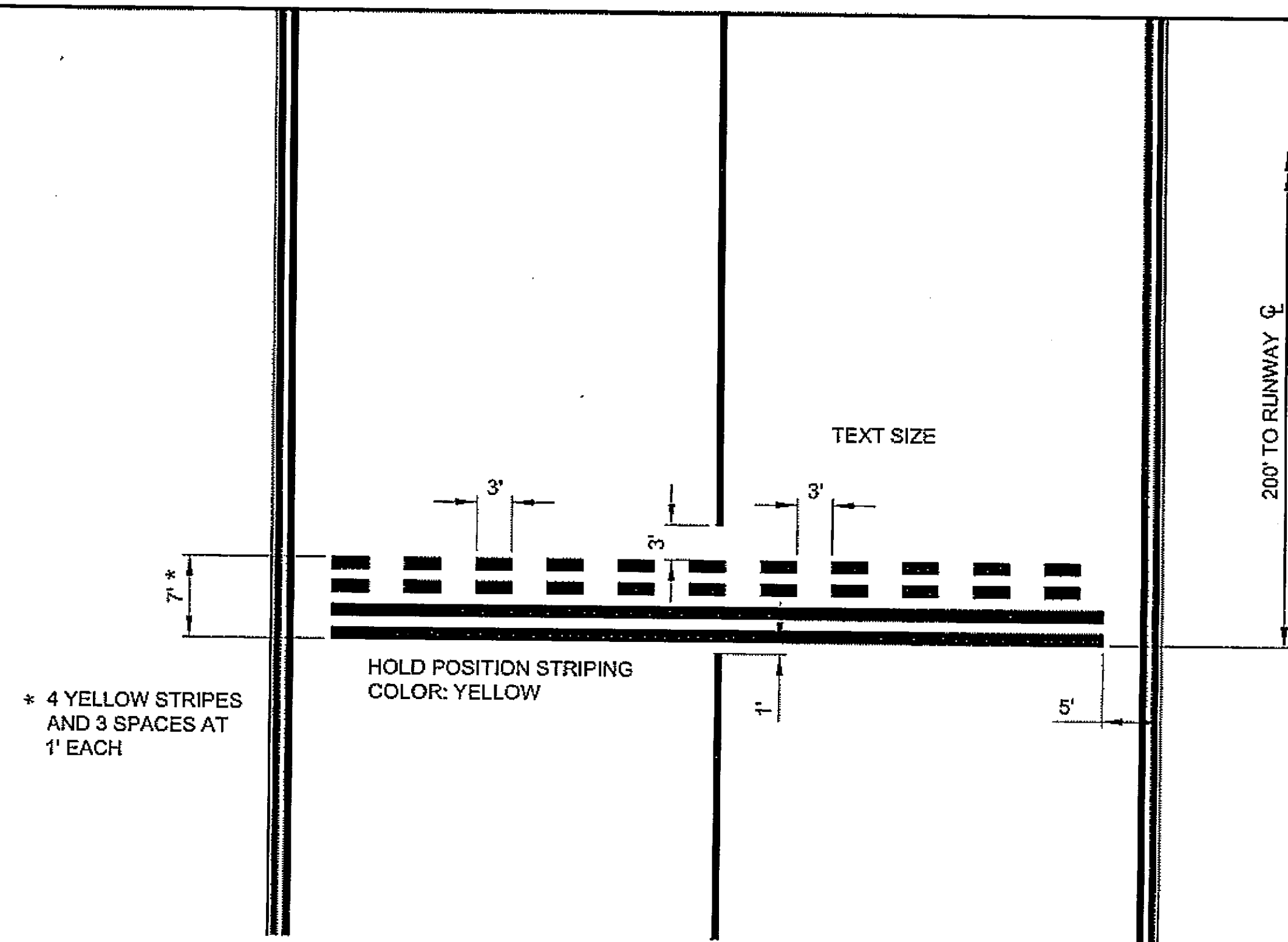
CHECKED BY: C. TRIPP
DESIGNED BY: C. TRIPP
DRAWN BY: L. ROBERTSON

PATH: O:\Khw\68164\Plans\1_L_Striping Dets.dwg
TAB: Thu, 17/May/07 10:54AM brelia

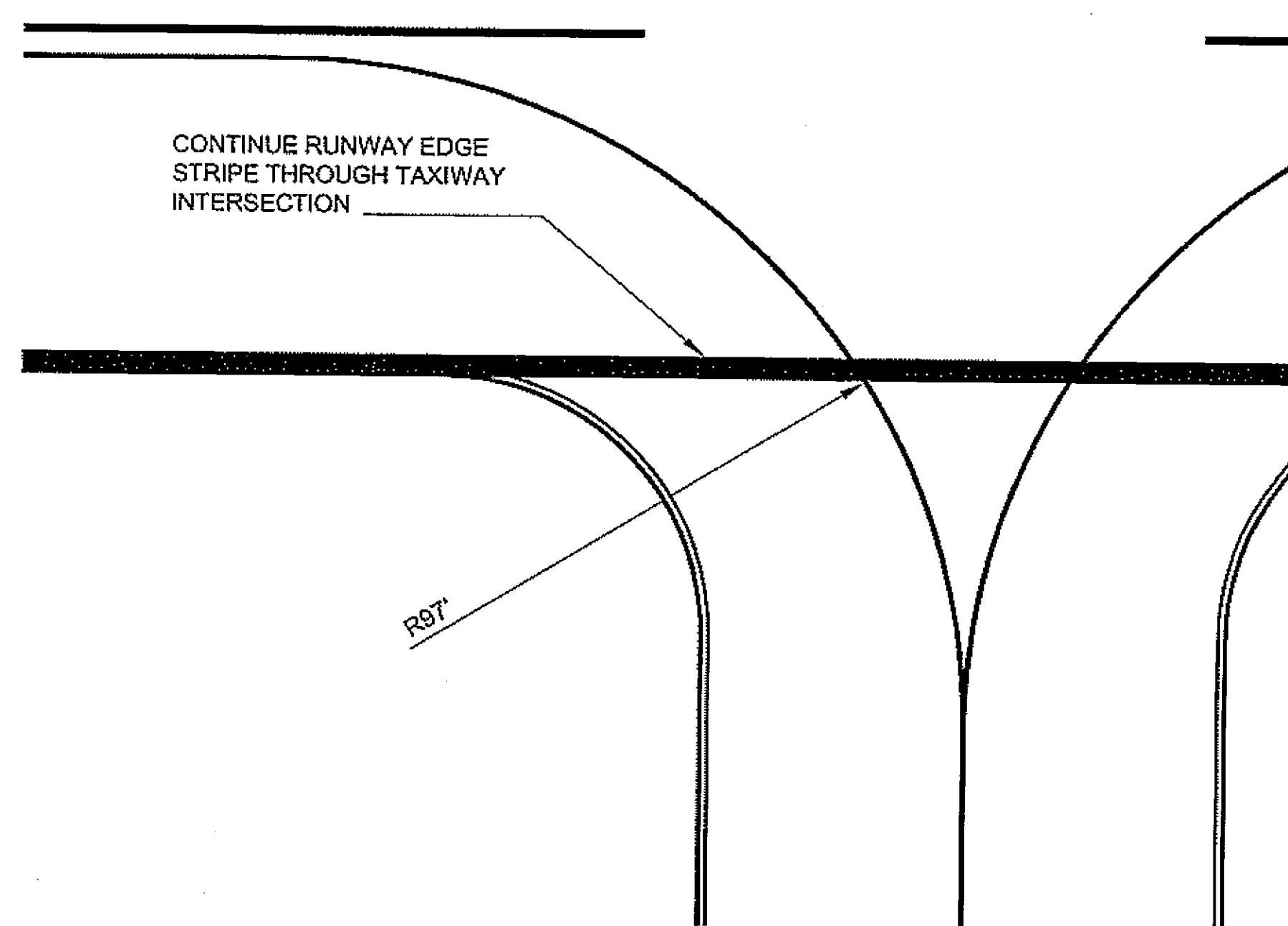
REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
DTFAWA-06-A-00013	2007	L1	21

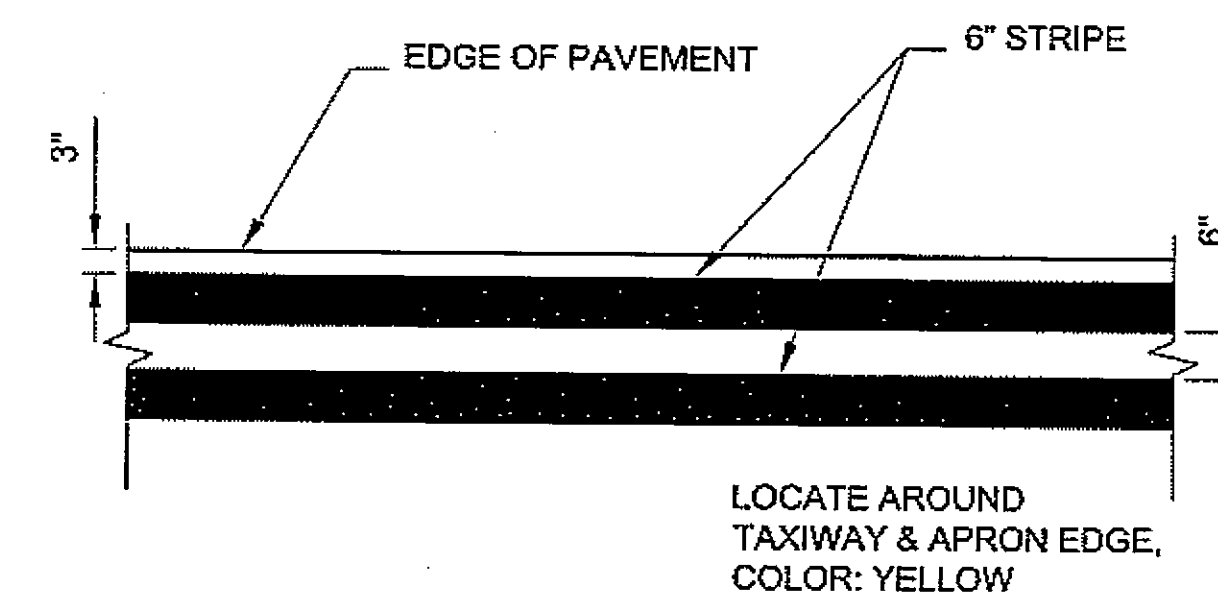
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *John Wick* Date *5/1/07*



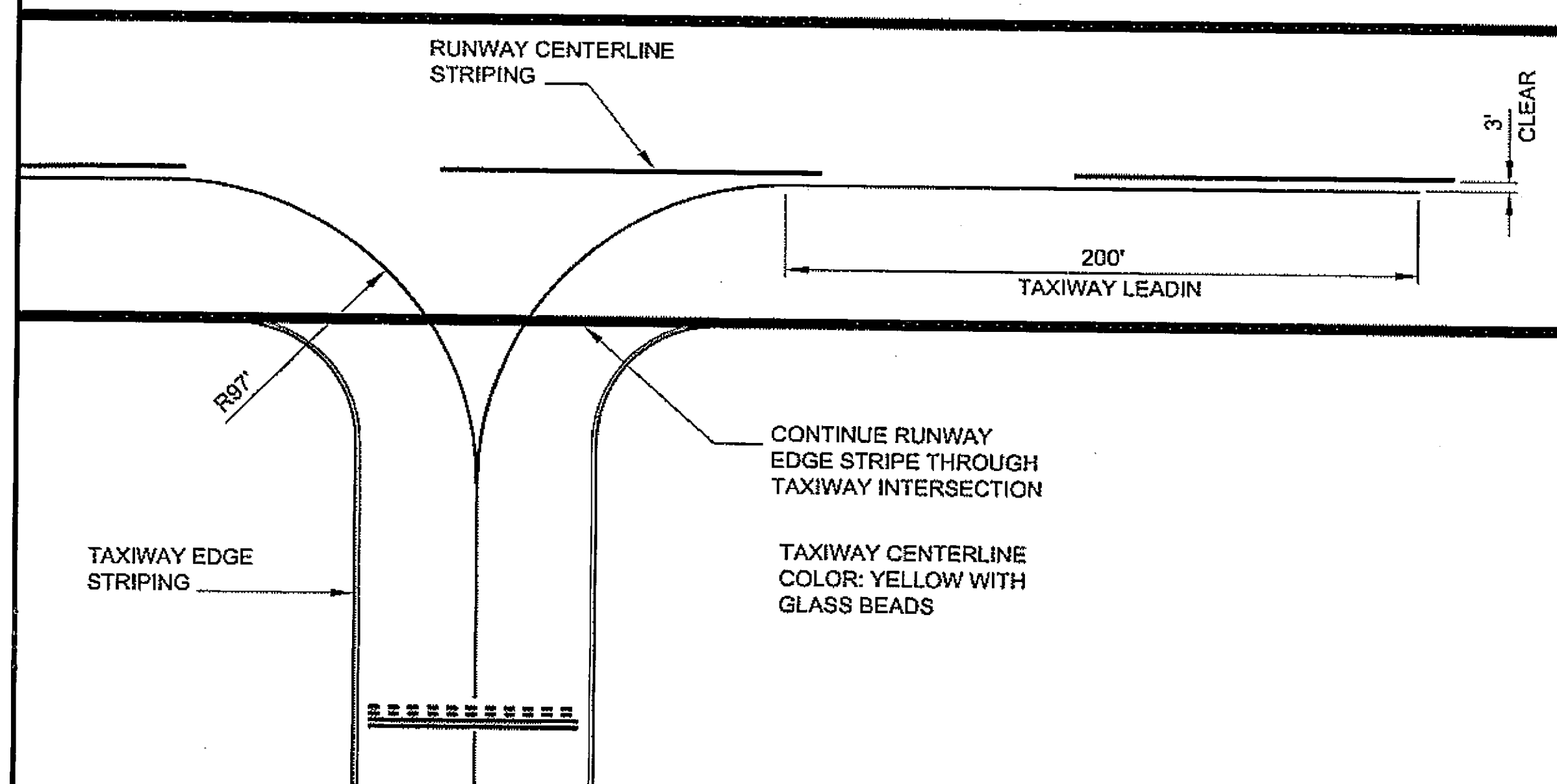
DETAIL A
TAXIWAY HOLDLINE
POSITION STRIPING



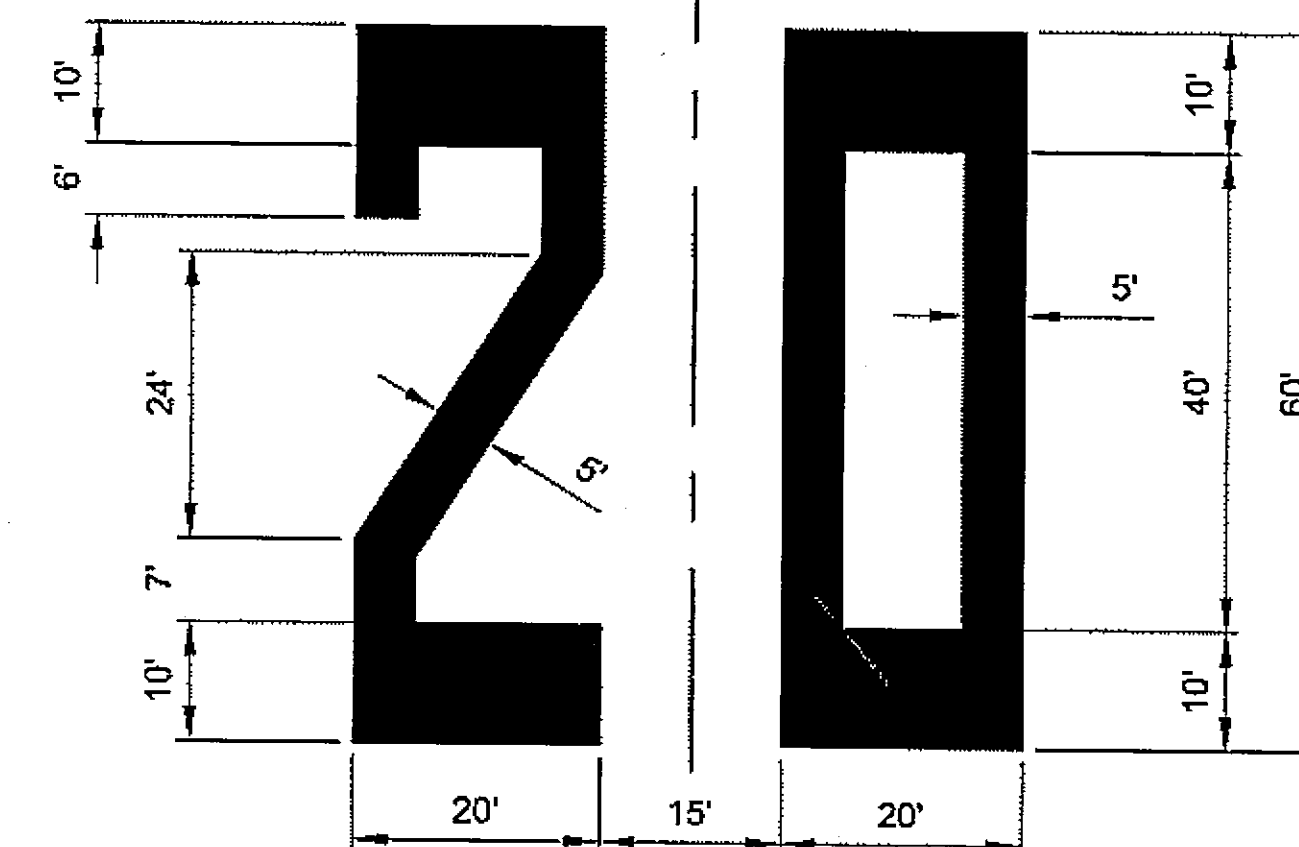
DETAIL B



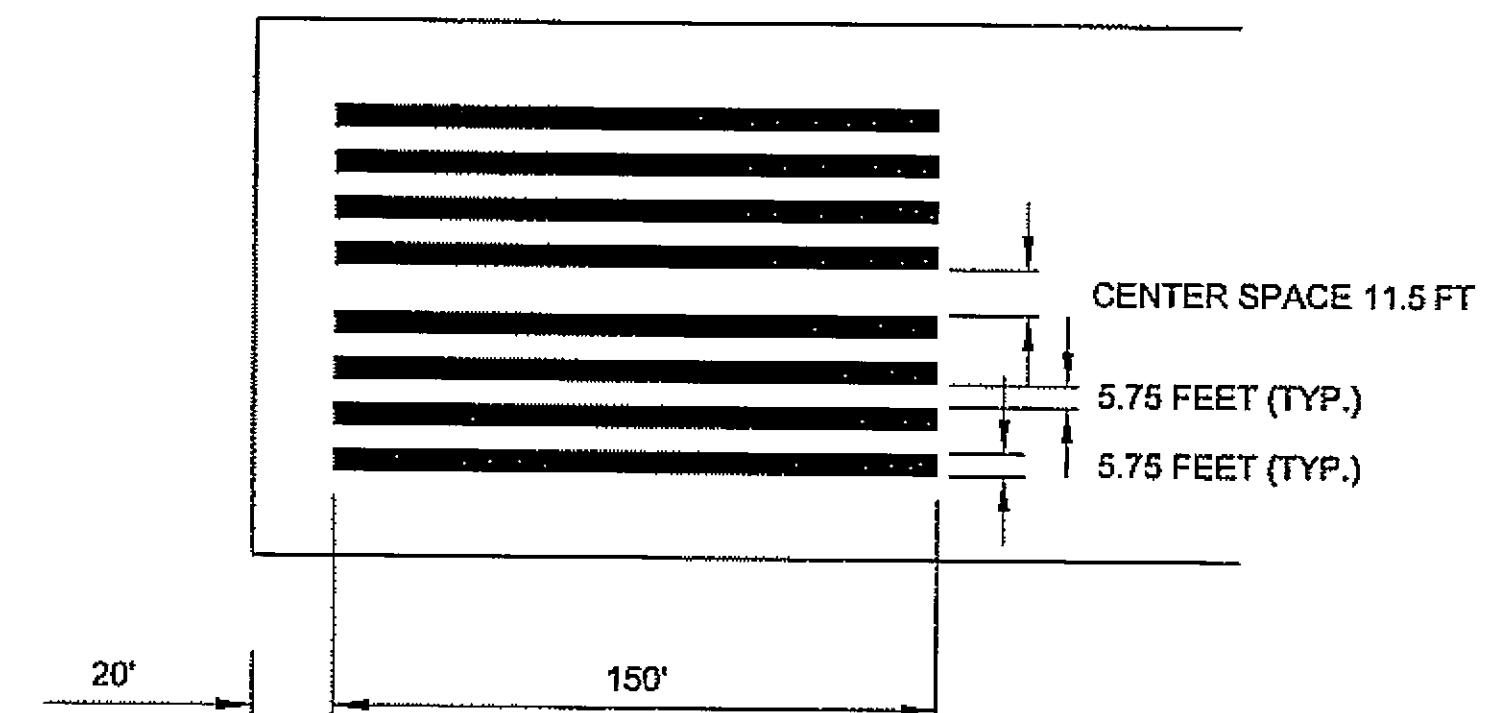
DETAIL C
TAXIWAY & APRON
EDGE STRIPING



DETAIL B



RUNWAY DESIGNATION
RUNWAY DETAILS



THRESHOLD MARKING DETAIL

NOTES:

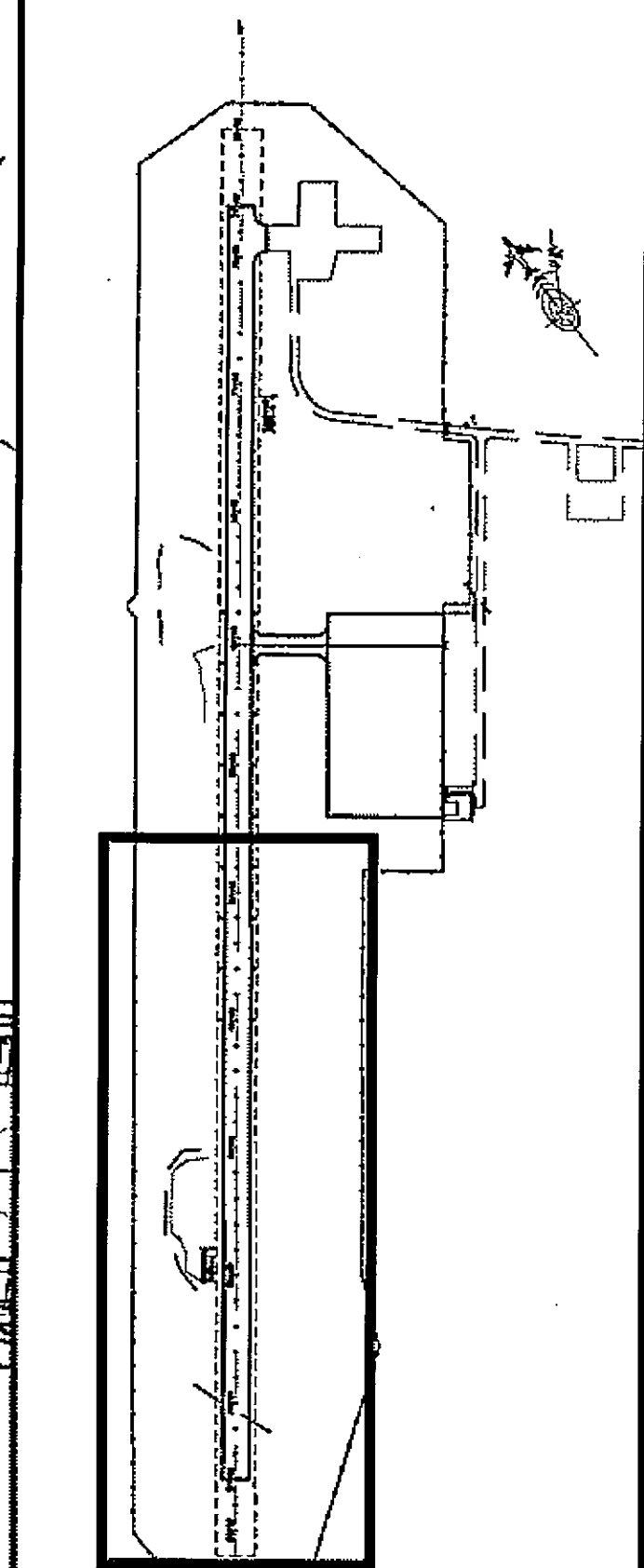
1. ALL STRIPING LAYOUT AND MATERIALS TO CONFORM TO FAA ADVISORY CIRCULAR NO. 150/5340-1J "STANDARDS FOR AIRPORT MARKINGS".

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *Steve M. M. M.* Date *3/10*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

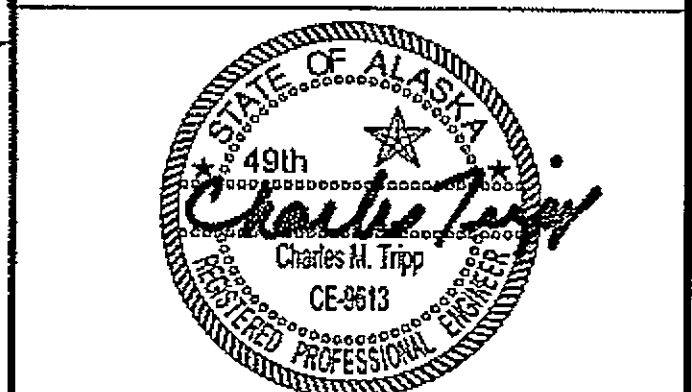
CHECKED BY: C. TRIPP 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES DESIGN & ENGINEERING SERVICES DIVISION-SOUTHEAST REGION KLAWOCK AIRPORT RUNWAY, TAXIWAY AND APRON IMPROVEMENTS PROJECT No. 68164																		
DESIGNED BY: C. TRIPP DRAWN BY: L. ROBERTSON PATH: O:\Klw\68164\Plans\T_L_Striping Date.dwg TAB: Thu, 17/May/07 10:54AM brellos		STRIPING DETAILS																		
<table border="1"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		REVISIONS			NO.	DATE	DESCRIPTION				<table border="1"> <thead> <tr> <th>PROJECT DESIGNATION</th> <th>YEAR</th> <th>SHEET NO.</th> <th>TOTAL SHEETS</th> </tr> </thead> <tbody> <tr> <td>DTFAWA-06-A-00013</td> <td>2007</td> <td>L2</td> <td>27</td> </tr> </tbody> </table>		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS	DTFAWA-06-A-00013	2007	L2	27
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DTFAWA-06-A-00013	2007	L2	27																	

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: Chuck M. Tripp



DESIGNED BY: Chuck M. Tripp

DRAWN BY: BWB

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION - SOUTHEAST REGION
KLAUOK AIRPORT RUNWAY,
TAXIWAY AND APRON
IMPROVEMENTS

PROJECT #68164
**Erosion & Sediment
Control Plan**

PROJECT DESIGNATION

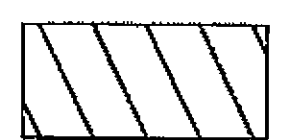
DTFWA-06-A-00013

STATE YEAR

ALASKA 2007

SHEET NUMBER TOTAL SHEETS

T1 27



Disturbed "Upland"

- E2EM1 Estuarine Intertidal Emergent Persistent
- PEM1/SS1/4B Palustrine Emergent Persistent / Scrub Shrub Deciduous - Evergreen Saturated
- PEM1B Palustrine Emergent Persistent Saturated
- PEM1H Palustrine Emergent Persistent Permanently Flooded
- PSS4/EM1B Palustrine Scrub Shrub Needle-Leaved Evergreen / Emergent Persistent Saturated

PEM1H

SILT FENCE REPLACEMENT IN CUT DITCH AREAS

SILT FENCE NOTE:
ORIENT SILT FENCE UPHILL
EVERY 300 FT OR AS NECESSARY
TO PREVENT BYPASS

RUNOFF COEFFICIENTS
LOOSE GRAVEL: 0.6
COMPACTED GRAVEL: 0.85
ASPHALT: 0.9

PAVEMENT REMOVE & REPLACEMENT: 3.0 ACRES
EXCAVATION AREA: 4.8 ACERS
FILL AREA: 5.8 ACERS
MATERIAL WASTE SITE: 0.8 ACERS
TOTAL DISTURBED AREA: 14.4 ACRES

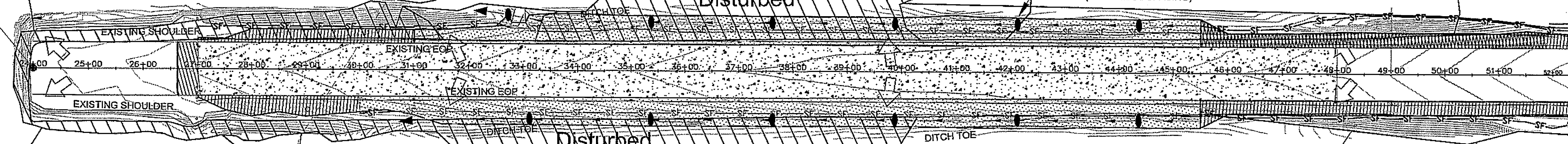
PEM1/SS1-4B

PEM1B

PEM1/SS1-4B

Disturbed

CHECK DAMS
(350 FT MAX. SPACING)



PEM1H

PEM1/SS1-4B

PEM1B

PSS4/EM1

→ DIRECTION OF RUNOFF

→ DIRECTIONS OF DITCH FLOW

EXCAVATION

FILL

PAVEMENT REMOVAL, EXCAVATION, RE-PAVE.

SF SF SILT FENCE

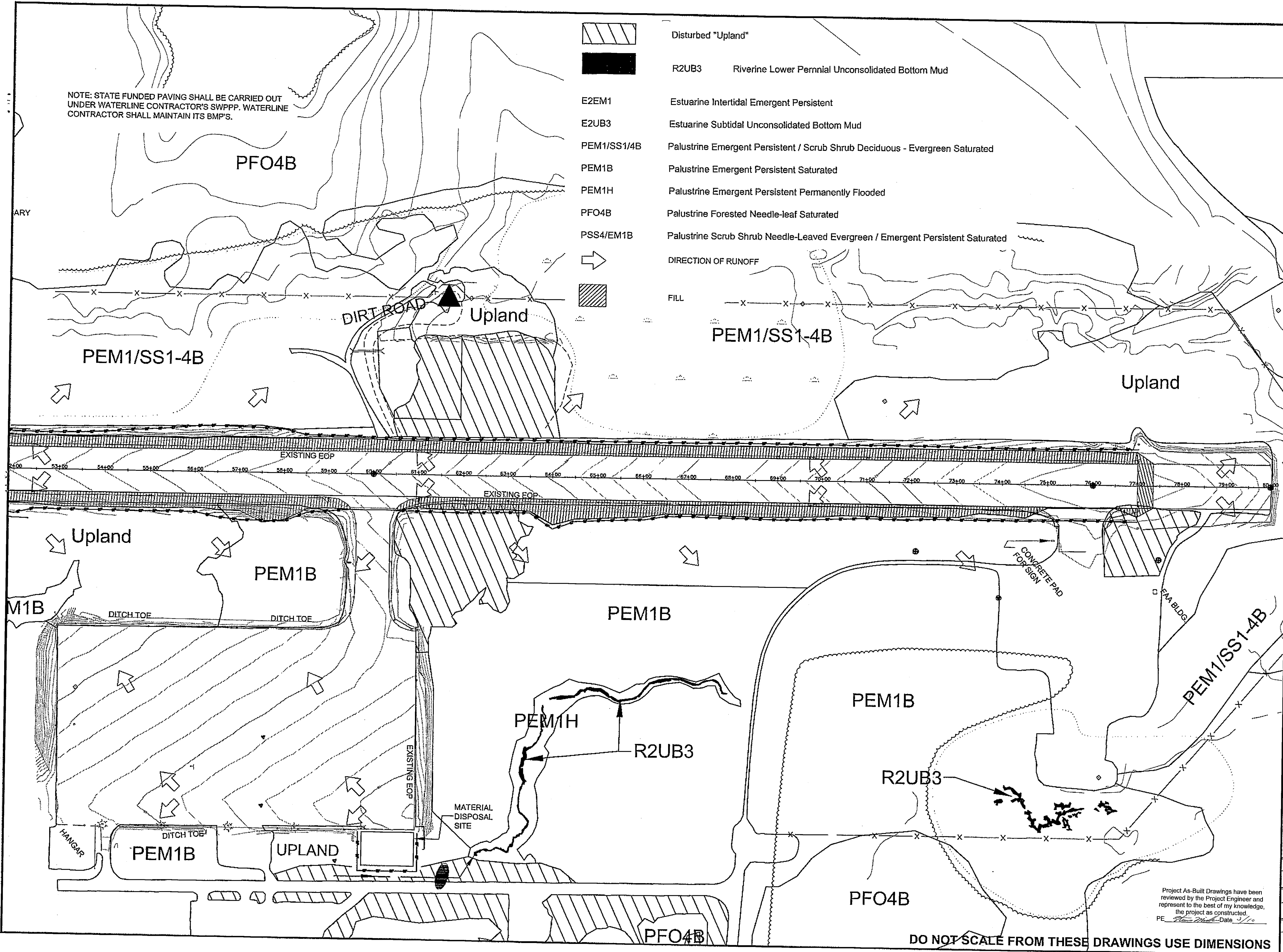
DITCH LINE WITH CHECK DAMS

GENERAL NOTES

- WETLANDS AREAS AS THEY PERTAIN TO THIS PROJECT WILL BE DELINEATED IN THE FIELD PRIOR TO START OF WORK.
- SEE THE ESCP NARRATIVE ATTACHED TO THE SPECIFICATIONS AS APPENDIX F, AND THE ENVIRONMENTAL COMMITMENTS IN APPENDIX B.
- CONTRACTOR SHALL REMOVE ROCK CHECK DAMS ONCE COSTRUCTED SURFACES ARE CONSIDERED STABILIZED.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *Chuck M. Tripp* Date *5/10*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



- Disturbed "Upland"
- R2UB3 Riverine Lower Perennial Unconsolidated Bottom Mud
- E2EM1 Estuarine Intertidal Emergent Persistent
- E2UB3 Estuarine Subtidal Unconsolidated Bottom Mud
- PEM1/SS1/4B Palustrine Emergent Persistent / Scrub Shrub Deciduous - Evergreen Saturated
- PEM1B Palustrine Emergent Persistent Saturated
- PEM1H Palustrine Emergent Persistent Permanently Flooded
- PFO4B Palustrine Forested Needle-leaf Saturated
- PSS4/EM1B Palustrine Scrub Shrub Needle-Leaved Evergreen / Emergent Persistent Saturated

DIRECTION OF RUNOFF
FILL

NOTE: STATE FUNDED PAVING SHALL BE CARRIED OUT UNDER WATERLINE CONTRACTOR'S SWPPP. WATERLINE CONTRACTOR SHALL MAINTAIN ITS BMP'S.

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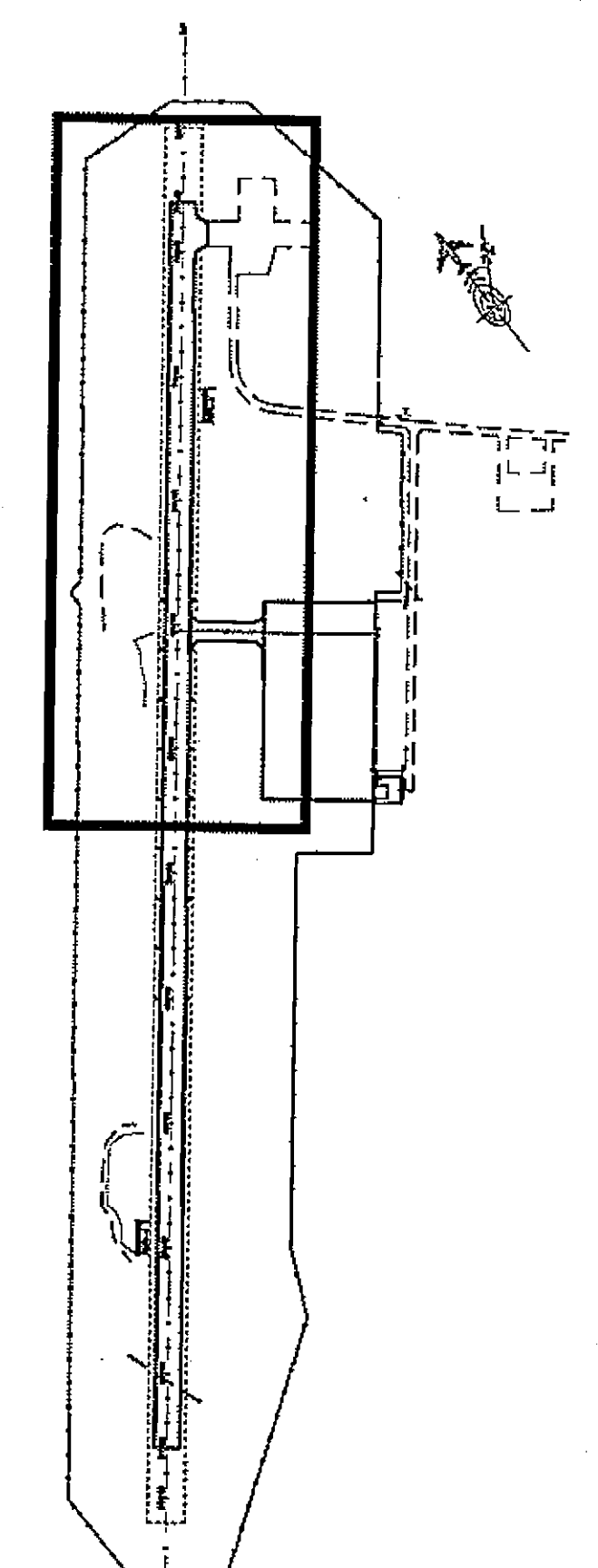
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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION
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CHECKED BY: Chuck M. Tripp

DESIGNED BY: Chuck M. Tripp

DRAWN BY: BWB

STATE OF ALASKA
49th
Charles M. Tripp
CE-5613

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION
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