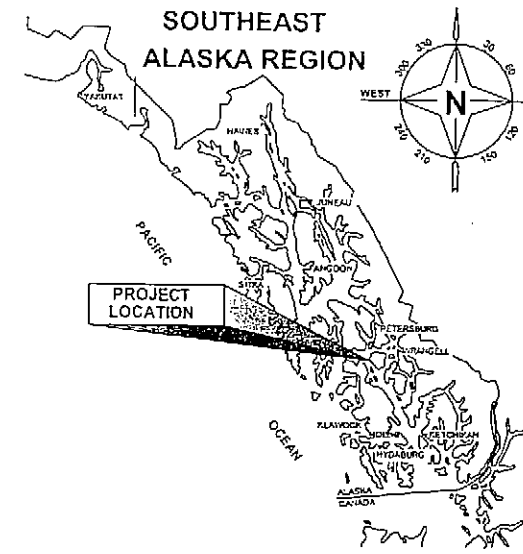


# State of Alaska

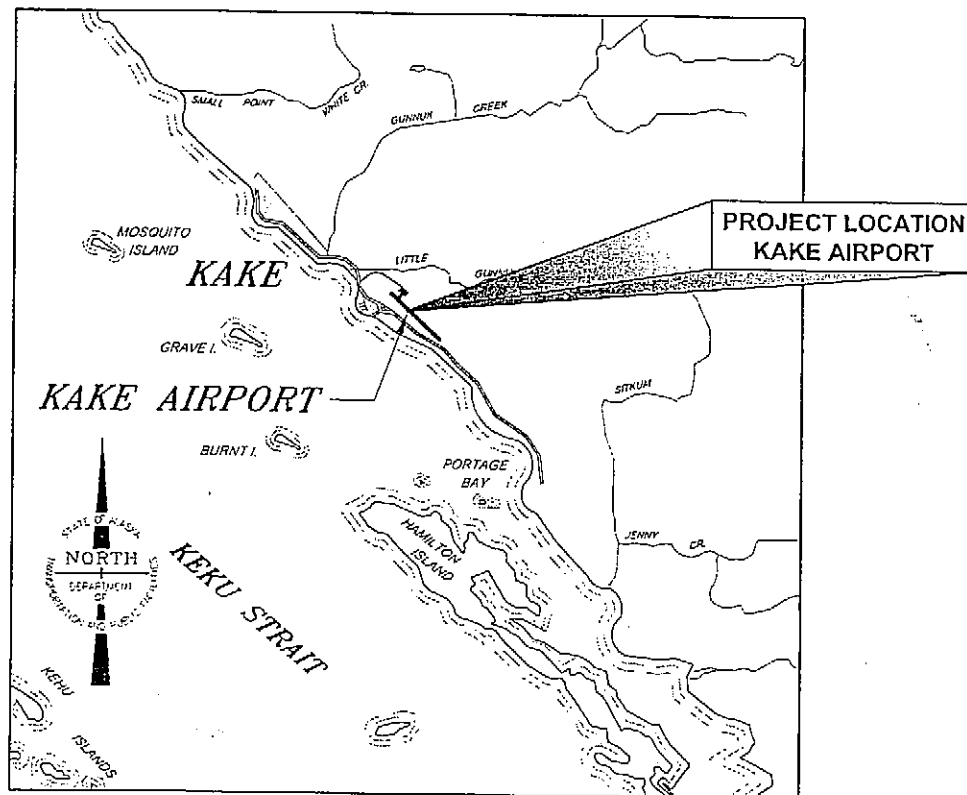
Department of Transportation  
and Public Facilities  
Southeast Region

*AS-BUILTS*



## KAKE, ALASKA KAKE AIRPORT SETTLEMENT REPAIRS RE-BID II

STATE PROJECT No. 68333



VICINITY MAP

### DESIGN DESIGNATION

AIRPORT REFERENCE CODE..... B-II  
 AIRPORT TYPE..... COMMUNITY  
 RUNWAY CATEGORY..... SMALL AIRCRAFT ONLY  
 AIRPORT REFERENCE POINT..... LAT. 56°57'47.53"  
 (ARP Coordinates - NAD '83) LONG. 133°54'44.61"  
 RUNWAY 10 / 28 DIMENSION..... 4000 FT x 100 FT  
 RUNWAY 10 / 28 ELEVATION..... 172 FT (MSL)  
 RSA DIMENSION..... 4600 FT X 150 FT  
 RUNWAY/TAXIWAY SURFACE..... ASPHALT CONCRETE  
 RUNWAY LIGHTING..... MEDIUM INTENSITY RUNWAY  
 LIGHTING (MIRL)  
 TAXIWAY LIGHTING..... MEDIUM INTENSITY RUNWAY  
 LIGHTING (MITL)  
 FAA APPROACH AIDS..... PRECISION APPROACH PATH INDICATOR  
 RUNWAY END IDENTIFIER LIGHTS  
 NON-PRECISION RUNWAY MARKINGS

### INDEX

SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	SITE PLAN
B1	TYPICAL SECTIONS & DETAILS
C1	ESTIMATE OF QUANTITIES
D1-5	SAFETY PLAN
E1-2	PHASING PLAN
F1	REPAIR PLAN
G1-G3	EROSION & SEDIMENT CONTROL PLANS

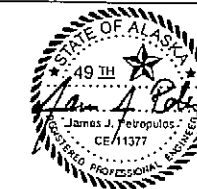
*AS-Built Plans*  
 Contractor: *Suffit Electric Electric*  
 Proj Engineer: *Dan Newell*  
 Begin Post: *8-5-08*  
 End Post: *9-5-08*

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 Proj. Eng. *D. Newell* Date *11-3-08*

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STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 SOUTHEAST REGION



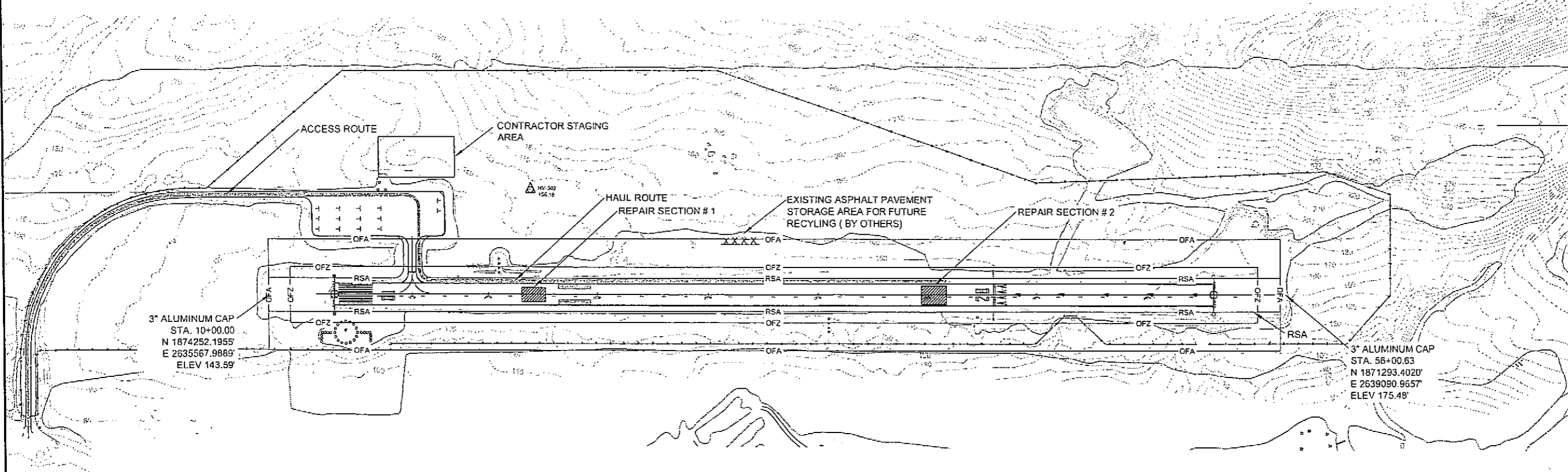
APPROVED: *Jack D. Beedle* 5/15/08  
 REGIONAL PRE-CONSTRUCTION ENGINEER DATE  
 JACK D. BEEDLE, P.E.

APPROVED: *Malcolm A. Menzies* 5-15-08  
 DIRECTOR, SOUTHEAST REGION DATE  
 MALCOLM A. MENZIES, P.E., L.S. 707

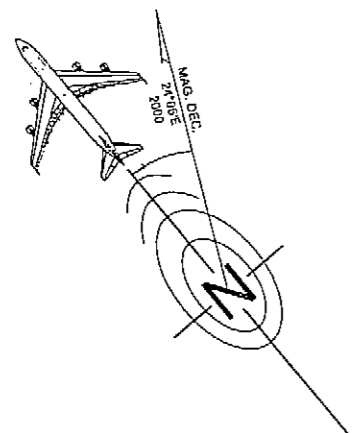
CERTIFIED TRUE & CORRECT AS-BUILT OF ACTUAL FIELD CONDITION:

CONSTRUCTION PROJECT MANAGER DATE

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	68833	2008	A1	15



KAKE AIRPORT SETTLEMENT REPAIRS  
 RE-BID II  
 PROJECT No. 68333  
 AIRPORT SITE PLAN



PLAN LEGEND

CHECKED BY: C. Tripp



DESIGNED BY: J. Petropoulos

DRAWN BY: N. Geary

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

KAKE AIRPORT  
 SETTLEMENT REPAIRS  
 RE-BID II  
 PROJECT #68333  
**AIRPORT SITE  
 PLAN**

PROJECT DESIGNATION

68333

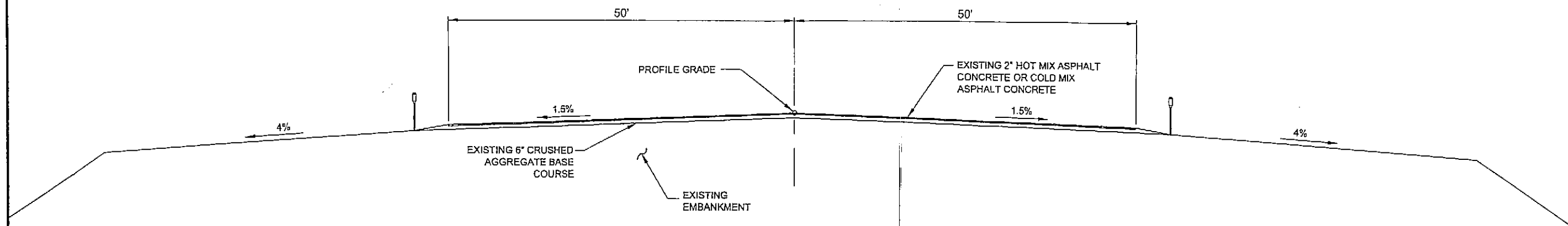
STATE	YEAR
ALASKA	2008
SHEET NUMBER	TOTAL SHEETS
A2	15

LEGEND	
AIRPORT PROPERTY LINE	—
AIRPORT REFERENCE POINT	⊙
SECURITY FENCING	—
BUILDINGS	■
ROADWAYS	==
RELS	⊙
WIND CONE & SEGMENTED CIRCLE	⊙
TRAILS/DIRT ROADS	---
WINDSOCK	⊙
SURVEY MONUMENT	⊙
PAPI	.....
THRESHOLD	—
THRESHOLD LIGHTS	.....
CULVERT	—

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 Proj. Eng. *R. Newell* Date *11-3-08*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

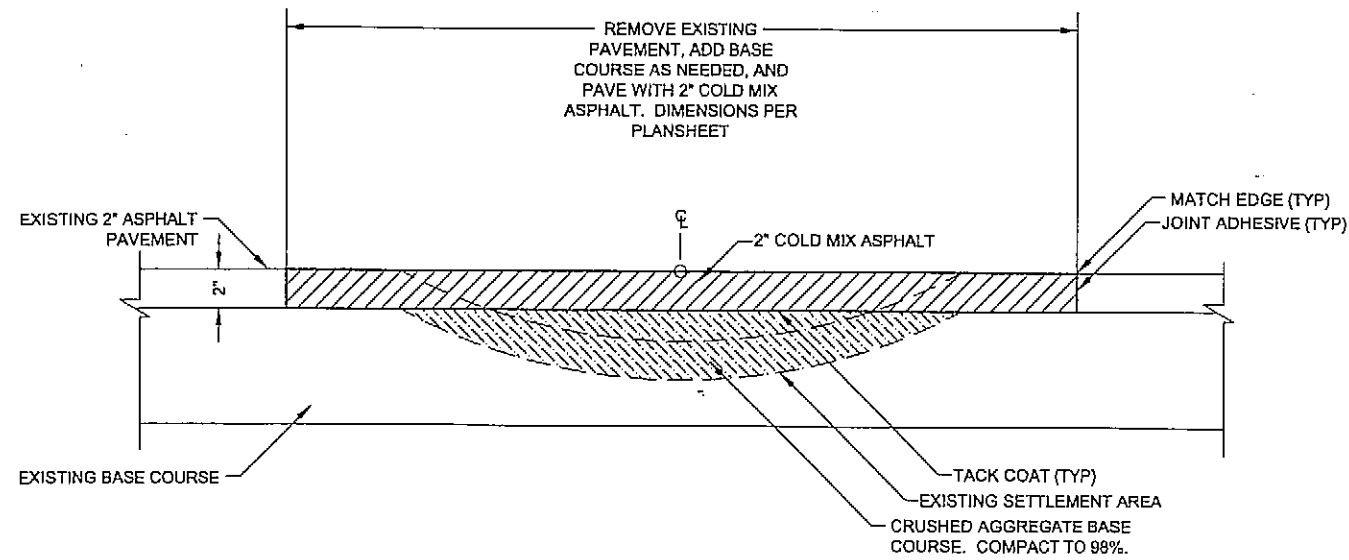
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ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



**EXISTING TYPICAL RUNWAY SECTION**

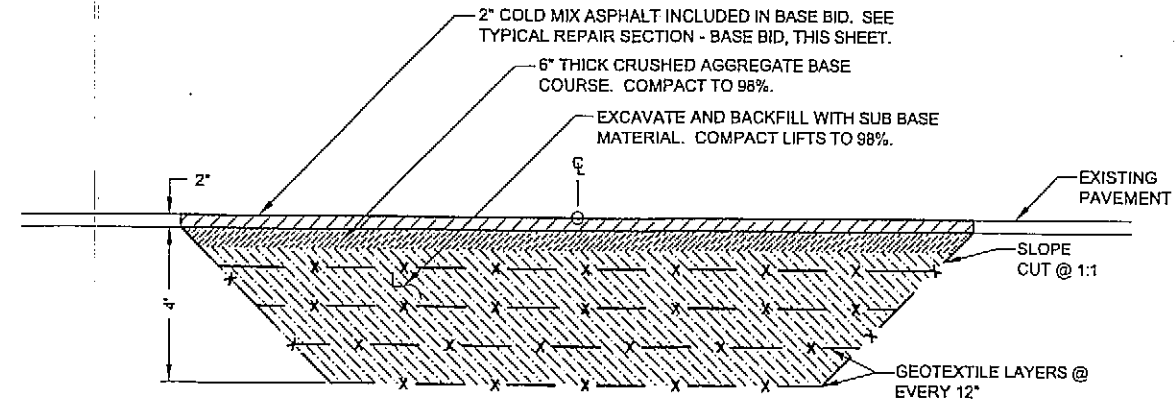
STA. 13+00 TO STA. 53+00

KAKE AIRPORT SETTLEMENT REPAIRS  
 RE-BID II  
 PROJECT No. 68333  
 TYPICAL SECTIONS



**TYPICAL RUNWAY REPAIR SECTION - BASE BID**

NO SCALE



**TYPICAL RUNWAY REPAIR SECTION - ALTERNATE A**

NO SCALE

NOTES:

1. FINISH PAVEMENT SURFACE TO MATCH EXISTING CENTERLINE GRADE AND CROSS SLOPE AT EDGES OF REPAIR CUTS. REFER TO REPAIR PLAN SHEET AND EXISTING TYPICAL RUNWAY SECTION DETAIL (THIS SHEET) FOR FINISHED GRADES. EXISTING GRADES BEYOND THE REPAIR SECTIONS MAY HAVE CHANGED DUE TO SETTLING AND MAY NOT MATCH GRADES SHOWN IN THIS PLANSHEET. MATCH EXISTING GRADE.
2. EXISTING PAVEMENT IN REPAIR AREAS SHALL NOT BE REMOVED UNTIL ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY TO COMPLETE THE WORK ARE ON SITE AND READY FOR USE.
3. EXERCISE CAUTION WHEN OPERATING HEAVY EQUIPMENT NEAR ELECTRICAL SYSTEM. AVOID STATIONARY TRACK TURNING OVER CONDUIT LOCATIONS. PROVIDE STEEL UTILITY PLATES WHERE EQUIPMENT CROSSES THE EXISTING ELECTRICAL CONDUITS.
4. DO NOT STOCKPILE EXCAVATED OR OTHER MATERIAL OVER ELECTRICAL CONDUIT LOCATIONS.
5. AIRCRAFT SHALL NOT BE ALLOWED ON FRESH ASPHALT UNTIL FIVE DAYS AFTER ASPHALT PLACEMENT.

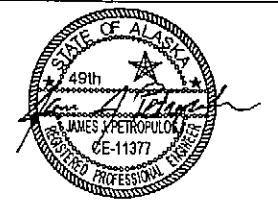
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 Proj. Eng. *D. Newell* Date *11-3-08*

NOTES (APPLICABLE TO ALTERNATE "A" ONLY):

1. PLACE ONLY THE AMOUNT OF GEOSYNTHETIC REINFORCEMENT REQUIRED FOR IMMEDIATELY PENDING WORK TO PREVENT UNDUE DAMAGE. AFTER A LAYER OF GEOSYNTHETIC REINFORCEMENT HAS BEEN PLACED, THE NEXT SUCCEEDING LAYER OF SOIL SHALL BE PLACED AND COMPACTED AS APPROPRIATE. AFTER THE SPECIFIED LAYER HAS BEEN PLACED, THE NEXT GEOSYNTHETIC LAYER SHALL BE INSTALLED. THIS PROCESS SHALL BE REPEATED FOR EACH SUBSEQUENT LAYER OF GEOSYNTHETIC REINFORCEMENT AND SOIL.
2. GEOSYNTHETIC REINFORCEMENT SHALL BE PLACED TO LAY FLAT AND PULLED TIGHT TO ELIMINATE FOLDS AND WRINKLES PRIOR TO BACKFILLING. AFTER A LAYER OF GEOSYNTHETIC HAS BEEN PLACED, SUITABLE MEANS SUCH AS STAPLES OR SMALL PILES OF SOIL SHALL BE USED TO HOLD THE GEOSYNTHETIC REINFORCEMENT IN POSITION UNTIL A SUBSEQUENT SOIL LAYER CAN BE PLACED. UNDER NO CIRCUMSTANCES SHALL A TRACK TYPE VEHICLE BE ALLOWED ON THE GEOSYNTHETIC REINFORCEMENT BEFORE 6 INCHES OF SOIL HAS BEEN PLACED.
3. DURING CONSTRUCTION, THE SURFACE OF THE FILL SHOULD BE KEPT APPROXIMATELY HORIZONTAL. GEOSYNTHETIC REINFORCEMENT SHALL BE PLACED DIRECTLY ON THE COMPACTED HORIZONTAL FILL SURFACE. GEOSYNTHETIC REINFORCEMENTS ARE TO BE PLACED WITHIN 3 INCHES OF THE DESIGN ELEVATIONS AND EXTEND THE LENGTH AS SHOWN ON THE SECTION VIEW UNLESS OTHERWISE DIRECTED BY THE ENGINEER. CORRECT ORIENTATION SHALL BE VERIFIED BY THE CONTRACTOR.
4. SALVAGE BASE COURSE IS TO BE PILED FOR FUTURE MAINTENANCE USE ADJACENT TO THE ASPHALT PAVEMENT STORAGE AREA.

PLAN LEGEND

CHECKED BY: C. Tripp



DESIGNED BY: J. Petropoulos

DRAWN BY: N. Geary

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

**KAKE AIRPORT  
 SETTLEMENT REPAIRS  
 RE-BID II  
 PROJECT #68333**

**TYPICAL SECTIONS**

PROJECT DESIGNATION	
68333	
STATE	YEAR
ALASKA	2008
SHEET NUMBER	TOTAL SHEETS
B1	15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

ESTIMATE OF QUANTITIES - BASE BID			
ITEM NO.	ITEM DESCRIPTION	ESTIMATED UNIT	QUANTITY
G-100a	MOBILIZATION & DEMOBILIZATION	LUMP SUM	ALL REQUIRED
G-115a	WORKER MEALS AND LODGING OR PER DIEM	LUMP SUM	ALL REQUIRED
G-704a	HAZARDOUS AREA BARRIER	EACH	46
P-157a	EROSION AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED
P-157d	TEMPORARY EROSION & POLLUTION CONTROL AMENDMENTS	CONTINGENT SUM	ALL REQUIRED
P-157e	WATTLES	LINEAR FOOT	250
P-157f	TEMPORARY CHECK DAM	EACH	3
P-165a	REMOVAL & DISPOSAL OF PAVEMENT	LUMP SUM	ALL REQUIRED
P-209b	CRUSHED AGGREGATE BASE COURSE	TON	250
P-405a	COLD MIX ASPHALT	LUMP SUM	ALL REQUIRED
P-620c	RUNWAY PAINTING	LUMP SUM	ALL REQUIRED

ESTIMATE OF QUANTITIES - ADDITIVE ALTERNATE A			
ITEM NO.	ITEM DESCRIPTION	ESTIMATED UNIT	QUANTITY
G-100a	MOBILIZATION & DEMOBILIZATION	LUMP SUM	ALL REQUIRED
G-115a	WORKER MEALS AND LODGING OR PER DIEM	LUMP SUM	ALL REQUIRED
P-152a	UNCLASSIFIED EXCAVATION	LUMP SUM	ALL REQUIRED
P-154a	SUBBASE COURSE	LUMP SUM	ALL REQUIRED
P-191a	GEOTEXTILE, SEPARATION	LUMP SUM	ALL REQUIRED
<del>P-209b</del>	<del>CRUSHED AGGREGATE BASE COURSE</del>	<del>TON</del>	<del>445</del>

*CO#1 Establish New Item.  
Crushed Aggregate Base  
P-209aa Lumpsum All Required.*

BASIS OF ESTIMATE		
ITEM NO.	ITEM	ESTIMATING FACTOR
P-152a	UNCLASSIFIED EXCAVATION	2,258 CYD
P-154a	SUBBASE COURSE	1,948 CYD
P-165a	REMOVAL & DISPOSAL OF PAVEMENT	1,852 SYD
P-209a	CRUSHED AGGREGATE BASE COURSE	1.95 TONS/CYD
P-191a	GEOTEXTILE, SEPARATION	7,410 SYD
P-405a	COLD MIX ASPHALT	1,852 SYD, 244 TONS
P-603a	BITUMINOUS TACK COAT	0.11 GAL/SY & 243 GAL/TON
P-620c	RUNWAY PAINTING	170 SF

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
Proj. Eng. *D. Newell* Date *11-3-08*

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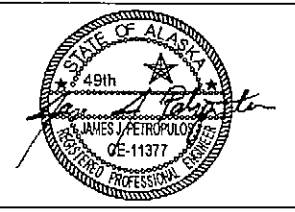
No.	DATE	DESCRIPTION

KAKE AIRPORT SETTLEMENT REPAIRS  
RE-BID II  
PROJECT No. 68333

ESTIMATE OF QUANTITIES

PLAN LEGEND

CHECKED BY: C. Tripp



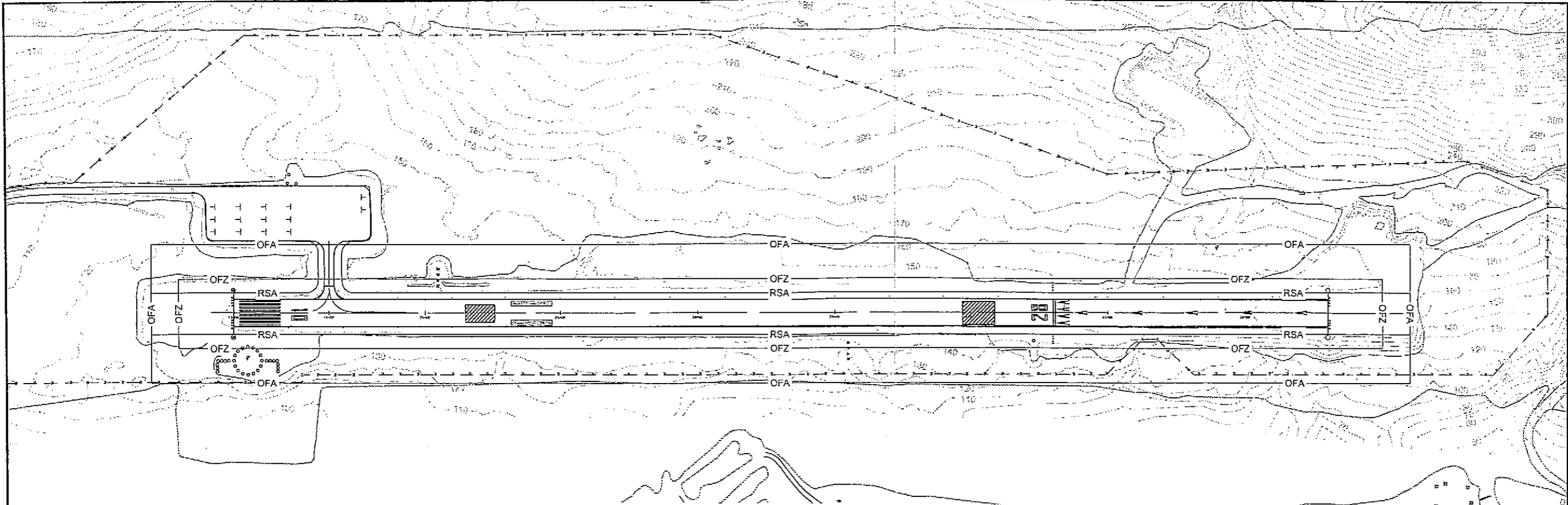
DESIGNED BY: J. Petropoulos  
DRAWN BY: N. Geary

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

**KAKE AIRPORT  
SETTLEMENT REPAIRS  
RE-BID II  
PROJECT #68333  
ESTIMATE OF  
QUANTITIES**

PROJECT DESIGNATION  
**68333**

STATE	YEAR
ALASKA	2008
SHEET NUMBER	TOTAL SHEETS
C1	15



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ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KAKE AIRPORT SETTLEMENT REPAIRS  
 RE-BID II  
 PROJECT No. 68333  
 SAFETY PLAN

809

**SAFETY PLAN NOTES:**

- FOR FULL AND HALF-WIDTH RUNWAY CLOSURES, "X" MARKINGS WILL BE PLACED OVER NUMBERS ON CLOSED PORTION OF RUNWAY, AT ENDS OF RUNWAY, AND AT TAXIWAY ENTRANCE (TAXIWAY SHALL ONLY BE CLOSED DURING FULL WIDTH RUNWAY CLOSURE). CONTRACTOR WILL SUBMIT SAFETY PLAN FOR APPROVAL. TEMPORARY "X" MARKINGS MAY BE CONSTRUCTED OF WOOD, CLOTH OR PLASTIC (SEE DETAILS, THIS SHEET) AND SECURELY ANCHORED IN PLACE WITH YELLOW SANDBAGS OR APPROVED MATERIAL.
- AIRPORT MARKINGS MUST BE CLEARLY VISIBLE TO PILOTS. CONCISE AND NOT MISLEADING, CONFUSING OR DECEPTIVE. TEMPORARY MARKINGS MUST BE SECURED TO PREVENT MOVEMENT FROM PROP WASH, JET BLAST, WING VORTICES, WIND CURRENTS OR WIND AND RAIN STORM SURGES. CONSTRUCTION MATERIALS MUST BE SUFFICIENT TO MINIMIZE DAMAGE TO AIRCRAFT THROUGH INADVERTENT CONTACT. TEMPORARY MARKINGS MUST BE MONITORED FREQUENTLY AND IMMEDIATE ACTION TAKEN TO CORRECT IMPROPER ASPECTS.
- CONTRACTOR WILL MONITOR THE COMMON TRAFFIC ADVISORY FREQUENCY 122.9 MHz AND THE SITKA FSS FREQUENCIES 121.3 MHz AND 122.55 MHz FOR AIRCRAFT ARRIVALS AND DEPARTURES.
- FOR NIGHT CLOSURE, CONTRACTOR SHALL DISABLE OR COVER RUNWAY EDGE LIGHTS, RUNWAY THRESHOLD LIGHTS, TAXIWAY EDGE LIGHTS, AND REILS AND SHALL PLACE BARRICADES ACROSS TAXIWAY ENTRANCE. CONTRACTOR SHALL ALSO COVER PAPI'S.
- NO EQUIPMENT MAY BE PARKED IN FRONT OF PAPI'S SO AS TO BLOCK VISUAL INFORMATION.
- WORK OUTSIDE OF THE OBSTACLE FREE AREA MAY BE PERFORMED AT ANYTIME DURING THE CONTRACT.
- STORAGE OF MATERIALS AND PARKING OF EQUIPMENT WITHIN 250' OF EITHER SIDE OF THE RUNWAY OR ON AIRCRAFT APRONS WILL NOT BE ALLOWED.
- CONTRACTOR SHALL SUBMIT A CONSTRUCTION SEQUENCE PLAN TO THE ENGINEER FOR APPROVAL. ANY CHANGES TO THE CONSTRUCTION SEQUENCE PLAN MUST BE APPROVED IN WRITING BY THE AIRPORT MANAGER AND THE ENGINEER PRIOR TO COMMENCING WORK. THIS WORK WILL INCLUDE A REVIEW OF AND POSSIBLE CHANGES TO THE SAFETY PLAN.

**TEMPORARY RUNWAY CLOSURE NOTES:**

- FULL-WIDTH RUNWAY CLOSURES TO OCCUR BETWEEN 6:00 PM AND 6:00 AM. ALL RUNWAY WORK INCLUDING ANY NECESSARY CLEANUP SHALL BE COMPLETED AND RUNWAY RE-OPENED WITHIN THIS TIME FRAME. HALF WIDTH CLOSURES ARE PERMITTED BETWEEN 6:00 AM AND 6:00 PM.
- CONTRACTOR SHALL NOT LEAVE OR PLACE WASTE OR LOOSE MATERIALS ON OR NEAR ACTIVE AIRCRAFT MOVEMENT AREAS. MATERIALS TRACKED ONTO THESE AREAS MUST BE CONTINUOUSLY REMOVED DURING THE CONSTRUCTION PROJECT.
- CONTRACTOR SHALL MONITOR THE RADIO FOR THE APPROACH OF AIRCRAFT IN DISTRESS.
- THE CONTRACTOR SHALL IMMEDIATELY VACATE MEN AND EQUIPMENT FROM THE RSA WHEN REQUESTED TO DO SO BY THE AIRPORT OPERATOR OR THE ENGINEER.
- THE "X"'S SHALL BE CONSTRUCTED PER SAFETY PLAN NOTE NUMBER 1, THIS SHEET.
- COVER OR DISABLE THRESHOLD LIGHTS AND REILS AT EACH END OF RUNWAY ON CLOSED PORTION OF RUNWAY.
- COVER OR DISABLE EDGE LIGHTS ALONG CLOSED EDGE OF RUNWAY.

**DEFINITIONS**

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

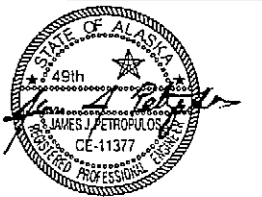
OFZ - OBSTACLE FREE ZONE -  
 DIMENSIONS:  
 • RWY 10/28--250' WIDE X 4400' LONG. EXTENDS 200' BEYOND EACH END OF RUNWAY.  
 SEE RSA NOTE BELOW.

RSA - RUNWAY SAFETY AREA -  
 DIMENSIONS:  
 • RWY 10/28--150' WIDE X 4600' LONG. EXTENDS 300' BEYOND EACH END OF RUNWAY.  
 NO MEN, EQUIPMENT OR MATERIALS PERMITTED WITHIN RSA/OFZ WHILE AIRCRAFT TAKING OFF OR LANDING. DURING HALF-WIDTH CLOSURE, THE RSA DIMENSIONS WILL NOT CHANGE. IF CREWS ARE UNABLE TO CLEAR THE RSA DUE TO TERRAIN OR EQUIPMENT OPERATIONS WHILE AIRCRAFT ARE TAKING OFF OR LANDING, THE CREWS MUST AT LEAST BE OUTSIDE THE EXISTING RUNWAY EDGE LIGHTS.

OFA - OBSTACLE FREE AREA -  
 DIMENSIONS:  
 • RWY 10/28--500' WIDE X 4600' LONG. EXTENDS 1000' BEYOND EACH END OF RUNWAY.  
 NO PARKED EQUIPMENT OR STORED MATERIALS ALLOWED.

**PLAN LEGEND**

CHECKED BY: C. Tripp



DESIGNED BY: J. Petropoulos

DRAWN BY: N. Geary

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

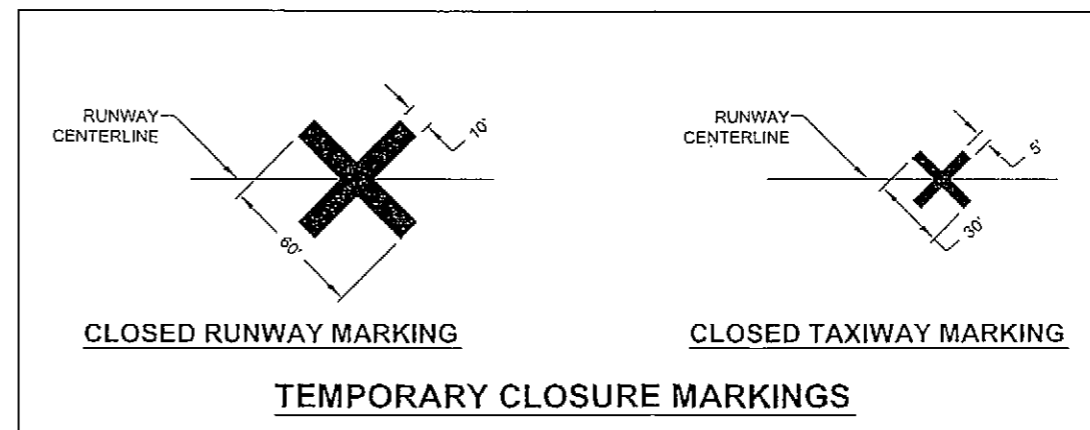
KAKE AIRPORT  
 SETTLEMENT REPAIRS  
 RE-BID II  
 PROJECT #68333

**CONSTRUCTION  
 SAFETY PLAN**

PROJECT DESIGNATION  
 68333

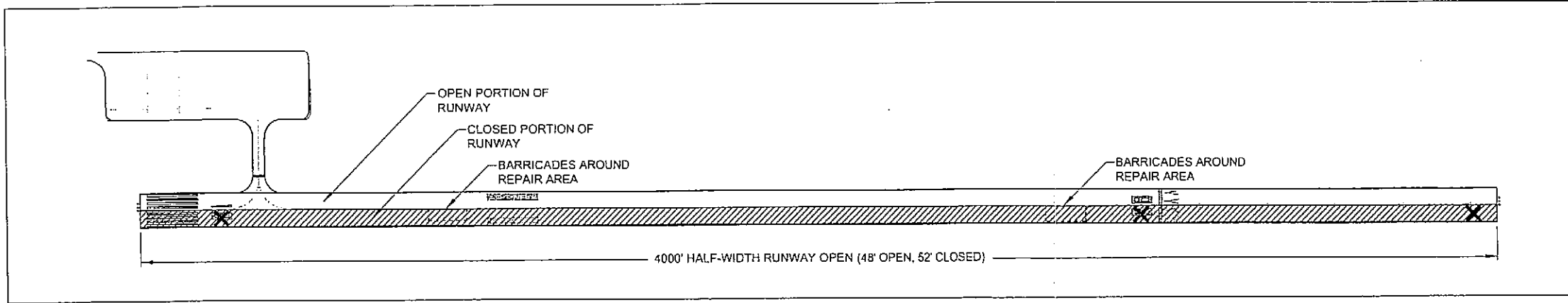
STATE YEAR  
 ALASKA 2008

SHEET NUMBER TOTAL SHEETS  
 D1 15



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 Proj. Eng. *D. Newell* Date *11-3-08*

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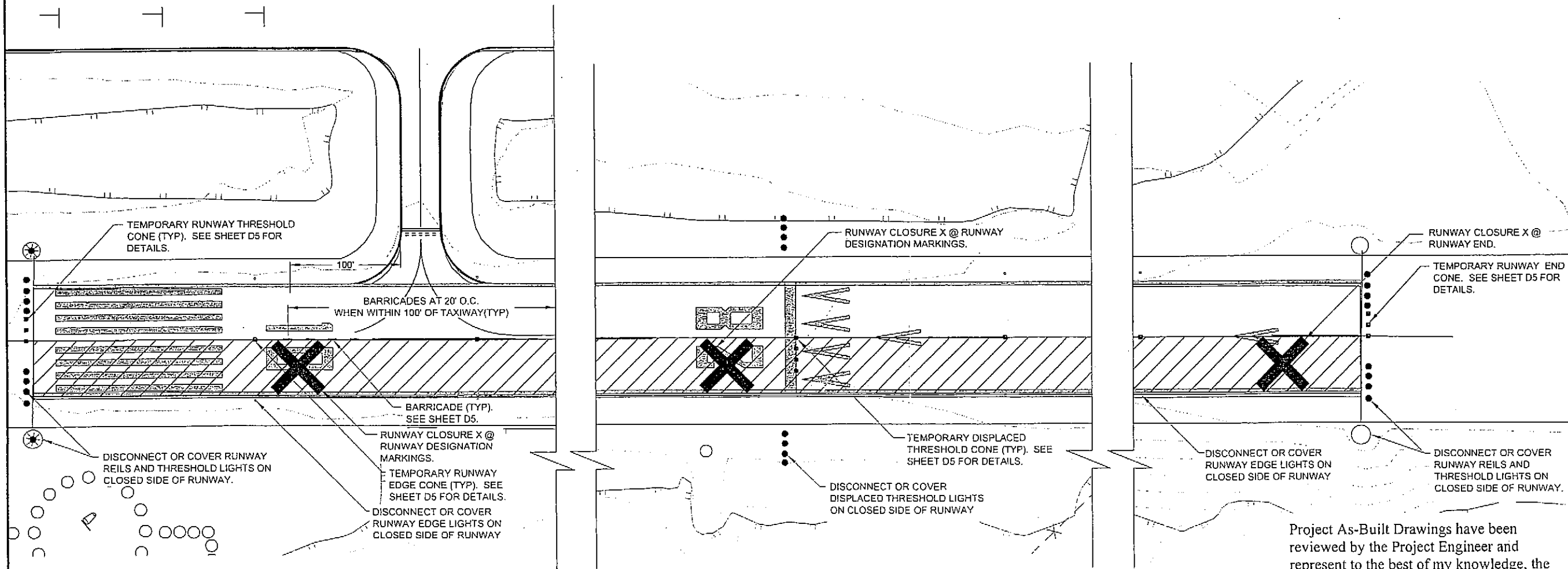
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KAKE AIRPORT SETTLEMENT REPAIRS  
RE-BID II  
PROJECT No. 68333

SAFETY PLAN



**RUNWAY CLOSURE PLAN, PHASE 1**

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
Proj. Eng. *D. Newell* Date *11-3-08*

PLAN LEGEND

CHECKED BY: C. Tripp

DESIGNED BY: J. Petropoulos

DRAWN BY: N. Geary

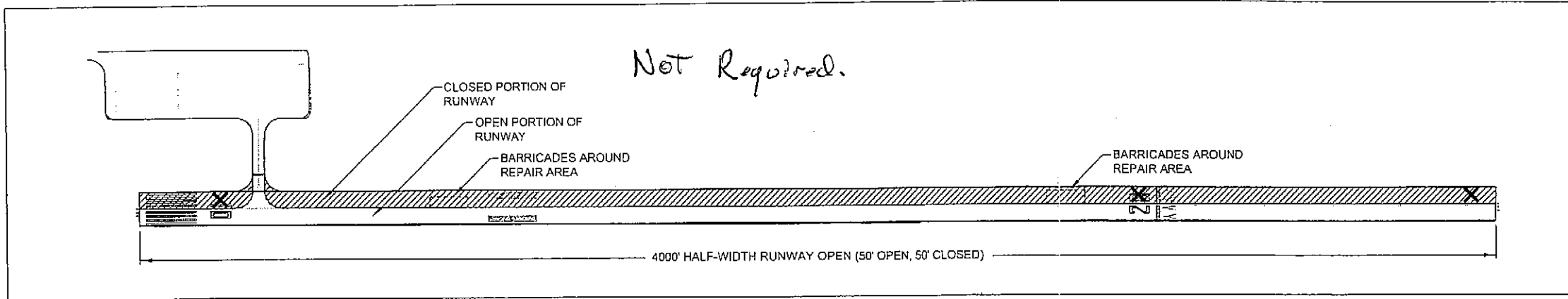
STATE OF ALASKA  
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DIVISION-SOUTHEAST REGION

KAKE AIRPORT  
SETTLEMENT REPAIRS  
RE-BID II  
PROJECT #68333  
**CONSTRUCTION SAFETY PLAN**

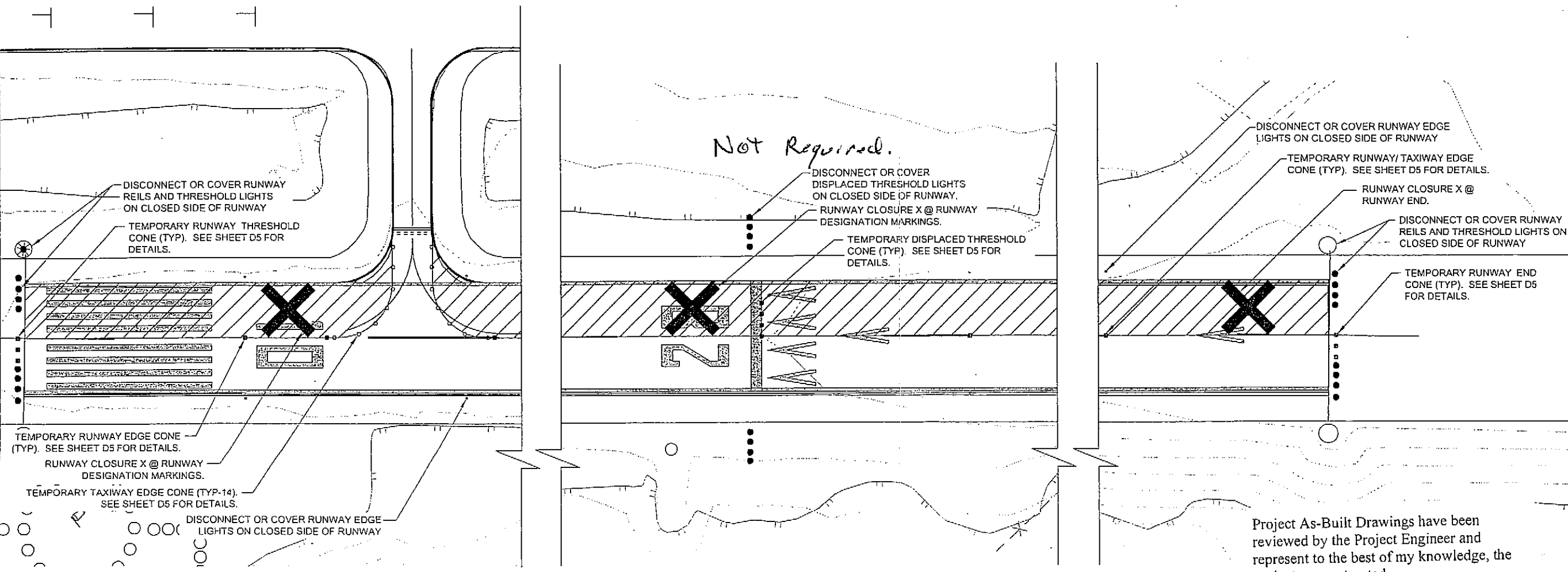
PROJECT DESIGNATION  
68333

STATE	YEAR
ALASKA	2008

SHEET NUMBER	TOTAL SHEETS
D2	15



CO#1 - Confined work From Center Line to Right Edge.



**RUNWAY CLOSURE PLAN, PHASE 2**

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

KAKE AIRPORT SETTLEMENT REPAIRS  
RE-BID II  
PROJECT No. 68333

**SAFETY PLAN**

**PLAN LEGEND**

CHECKED BY: C. Tripp

DESIGNED BY: J. Petropoulos  
DRAWN BY: N. Geary

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

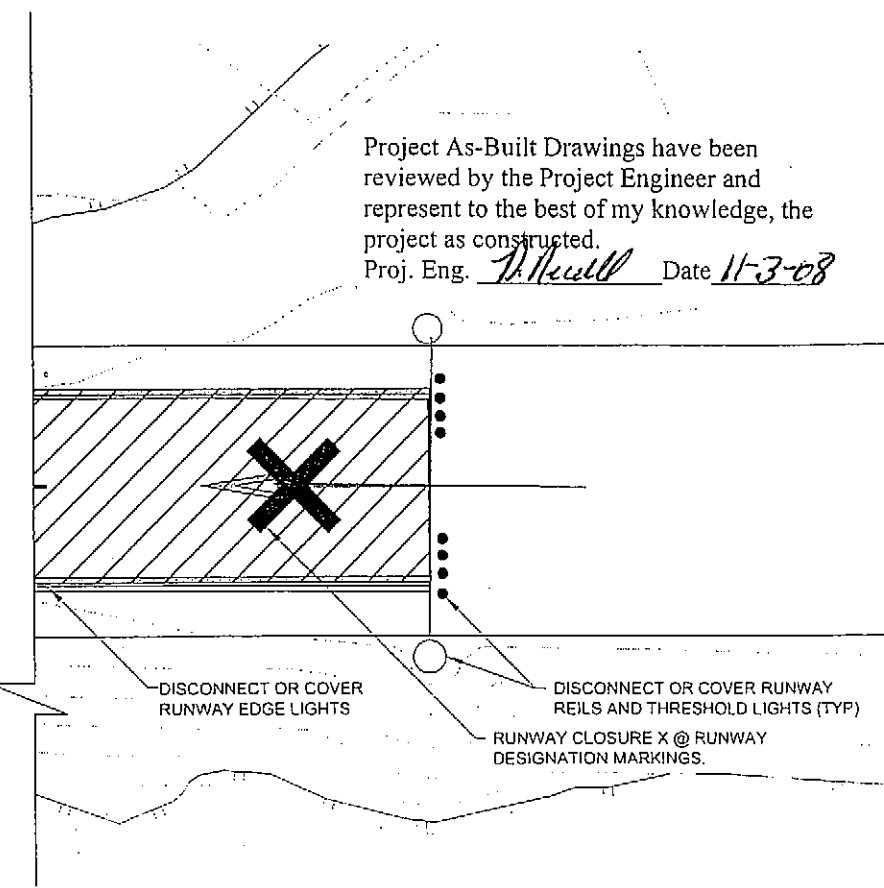
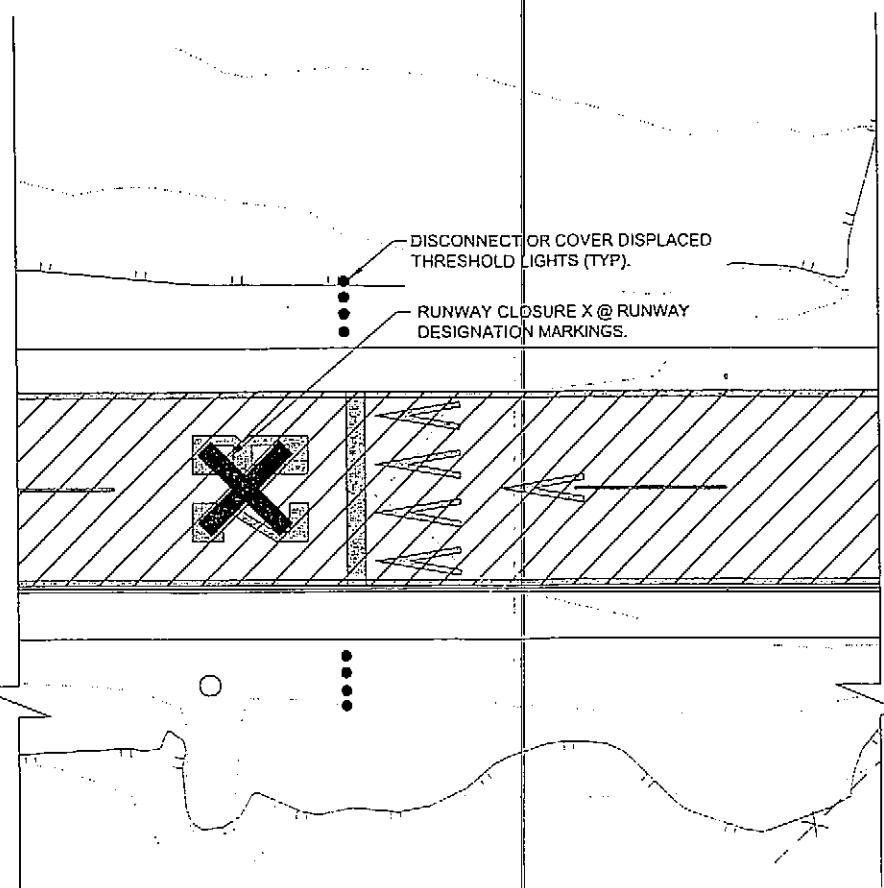
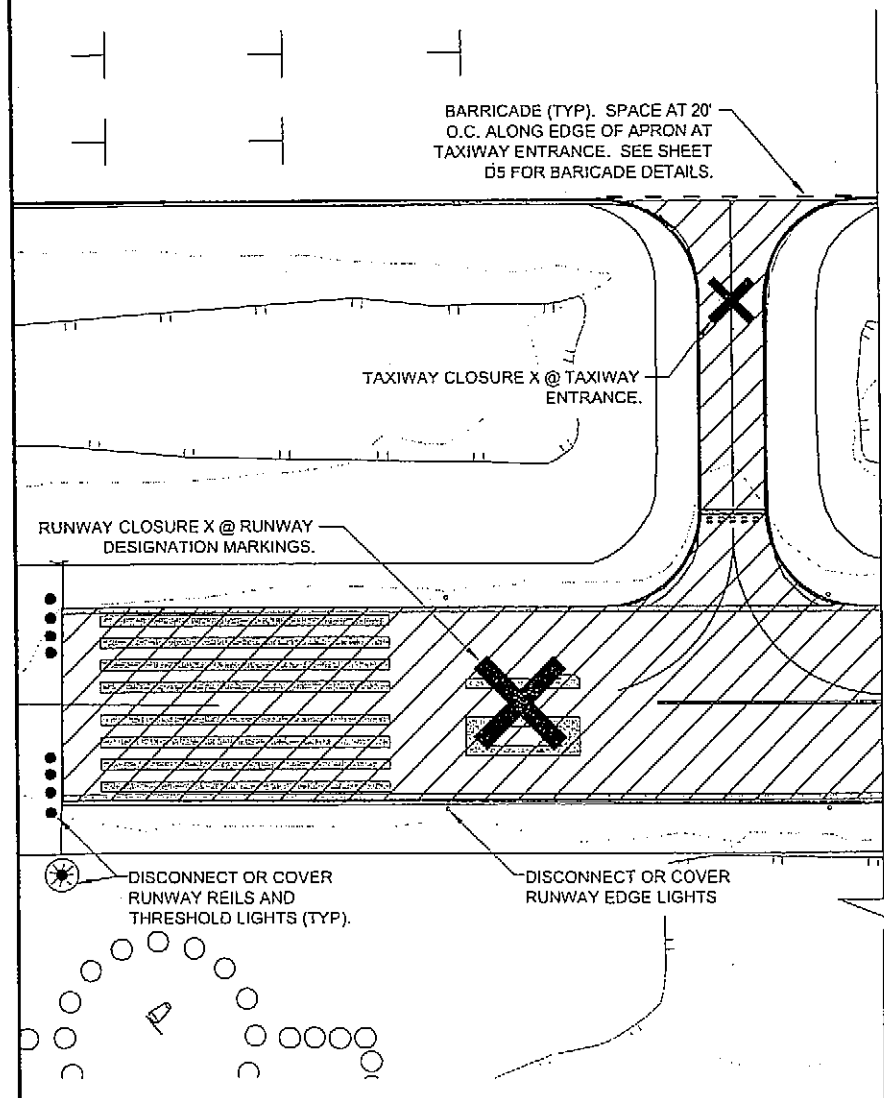
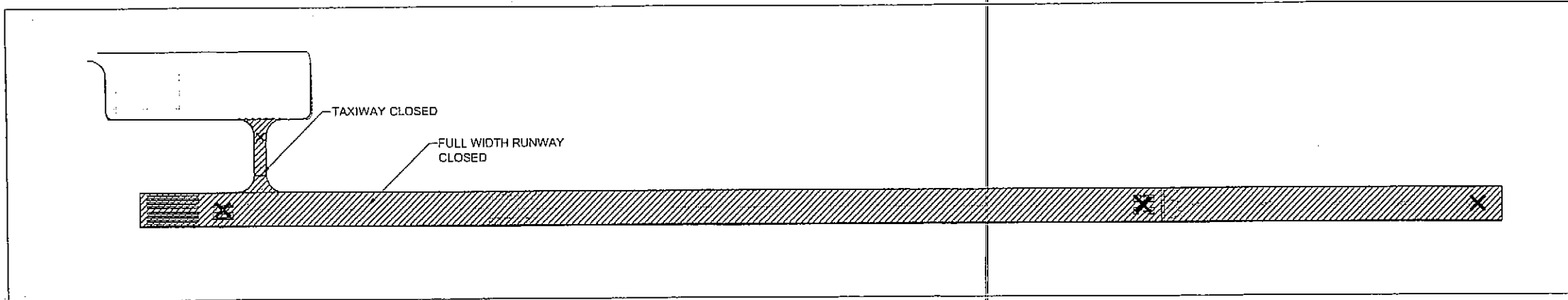
**KAKE AIRPORT SETTLEMENT REPAIRS RE-BID II**  
PROJECT #68333  
**CONSTRUCTION SAFETY PLAN**

PROJECT DESIGNATION	
68333	
STATE	YEAR
ALASKA	2008
SHEET NUMBER	TOTAL SHEETS
D3	15

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Proj. Eng. *J. H. H. H.* Date *11-3-08*

No.	DATE	DESCRIPTION

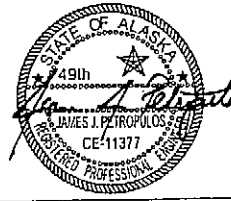
KAKE AIRPORT SETTLEMENT REPAIRS  
 RE-BID II  
 PROJECT No. 68333  
**SAFETY PLAN**



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 Proj. Eng. *J. Petropoulos* Date *11-3-08*

**PLAN LEGEND**

CHECKED BY: C. Trippe



DESIGNED BY: J. Petropoulos

DRAWN BY: N. Geary

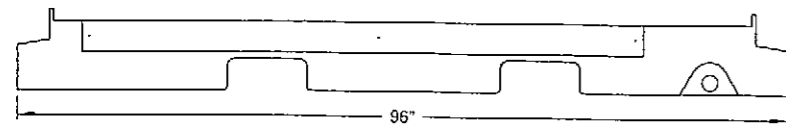
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 DESIGN & ENGINEERING SERVICES  
 DIVISION-SOUTHEAST REGION

**KAKE AIRPORT  
 SETTLEMENT REPAIRS  
 RE-BID II  
 PROJECT #68333  
 CONSTRUCTION  
 SAFETY PLAN**

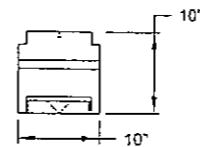
PROJECT DESIGNATION	
68333	
STATE	YEAR
ALASKA	2008
SHEET NUMBER	TOTAL SHEETS
D4	15

**RUNWAY CLOSURE PLAN, NIGHT CLOSURE**

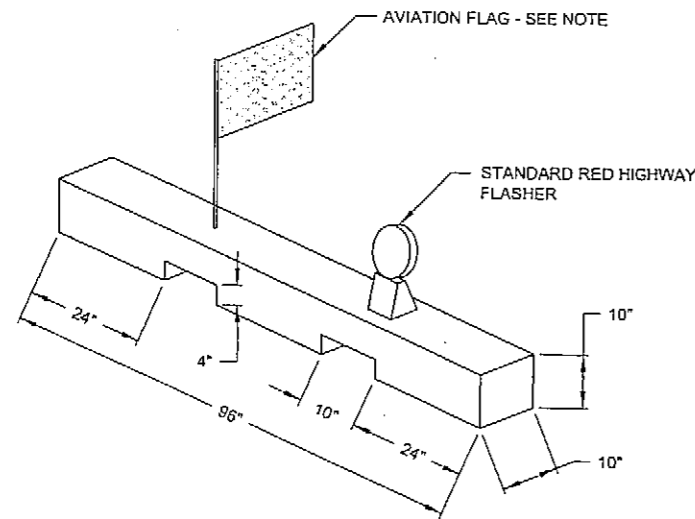
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



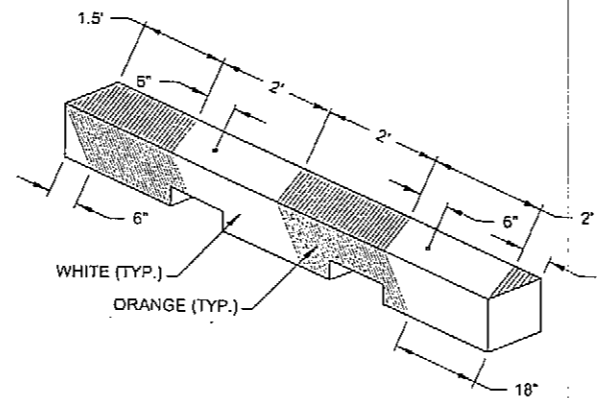
**HAZARDOUS BARRIER  
ELEVATION VIEW**



**HAZARDOUS BARRIER  
SIDE VIEW**



**HAZARDOUS BARRIER  
PREPERATION OF FLAG &  
FLASHER MOUNT DETAIL**

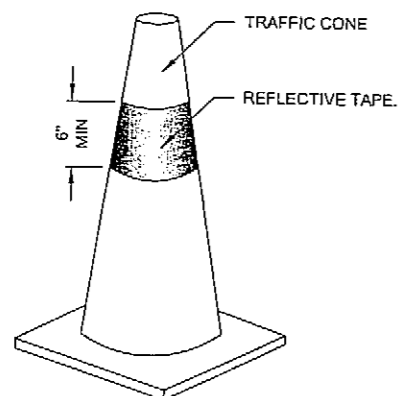


**HAZARDOUS BARRIER  
STRIPING DETAIL**

**HAZARDOUS BARRIER DETAIL**

**NOTES:**

1. BARRIERS SHALL BE IN PLACE TO LIMIT ACCESS TO THE CLOSED PORTION OF THE RUNWAY/TAXIWAY.
2. BARRICADES SHALL BE OF THE LOW STYLE (LESS THAN 10" HIGH WHEN USED ADJACENT TO AN ACTIVE MOVEMENT AREA). MAXIMUM SPACING SHALL BE 20 FEET BETWEEN BARRIERS. LOCATE BARRIERS AROUND EXCAVATION SITES (ALTERNATE A ONLY) AND WHERE SHOWN ON SHEETS D2-D4.
3. THESE BARRICADES SHALL BE DELINEATED AS SHOWN IN THE FIGURE.
4. FLAGS SHALL ALTERNATE COLOR (ORANGE/WHITE) ON EACH BARRIER AS THEY ARE PLACED IN THE AIRPORT OPERATIONS AREA, IN SEQUENCE.



**CONE REFLECTIVE TAPE COLOR**

- G ⊕ R **THRESHOLD CONE:** GREEN (G) REFLECTIVE TAPE FACES RUNWAY APPROACH AND RED (R) FACES RUNWAY SURFACE. PROVIDE AT RUNWAY 10 THRESHOLD WHERE SHOWN.
- R ⊕ **RUNWAY END CONE:** RED (R) REFLECTIVE TAPE FACES ALL DIRECTIONS. PROVIDE AT END OF RUNWAY ON 28 END.
- G ⊕ **DISPLACED THRESHOLD CONE:** GREEN (G) REFLECTIVE TAPE FACES DISPLACED RUNWAY SURFACE AND NO REFLECTIVE TAPE ON SIDE OF CONE FACING RUNWAY SURFACE. PROVIDE AT RUNWAY 28 DISPLACED THRESHOLD.
- B ⊕ **TAXIWAY EDGE CONE:** BLUE (B) REFLECTIVE TAPE FACES ALL DIRECTIONS. PROVIDE ALONG PORTION OF TAXIWAY THAT EXTENDS ONTO PORTION OF CLOSED RUNWAY DURING PHASE 2 WORK.
- W ⊕ **RUNWAY EDGE CONE:** WHITE (W) REFLECTIVE TAPE FACES ALL DIRECTIONS. PROVIDE ALONG EDGE OF RUNWAY BETWEEN RUNWAY 10 THRESHOLD AND RUNWAY 28 DISPLACED THRESHOLD.
- Y ⊕ R **RUNWAY DISPLACED AREA CONE:** YELLOW (Y) FACES RUNWAY SURFACE AND RED (R) FACES DISPLACED RUNWAY APPROACH AREA. PROVIDE BETWEEN RUNWAY 28 DISPLACED THRESHOLD AND END OF RUNWAY.

**NOTES:**

1. THE EXISTING RUNWAY EDGE LIGHTS ARE ROUGHLY SPACED 200' APART. PLACE EACH TEMPORARY RUNWAY EDGE CONE WITHIN 1' LONGITUDINALLY OF A STRAIGHT LINE FROM THE EXISTING RUNWAY EDGE LIGHT.
2. THRESHOLD CONES, DISPLACED THRESHOLD CONES, AND RUNWAY END CONES SHALL BE SPACED 10' APART.
3. THE TEMPORARY CONES SHALL BE ORANGE. REFLECTIVE TAPE COLORS SHALL BE CONFIGURED TO MATCH COLOR AND ORIENTATION OF THE EXISTING RUNWAY AND TAXIWAY LIGHTS. SEE CONE REFLECTIVE TAPE DETAIL, THIS SHEET.
4. SECURE CONE TO PREVENT DISPLACEMENT FROM PROP WASH, JET BLAST, WING VORTEX, OR OTHER SURFACE WIND CURRENTS.

**RUNWAY/TAXIWAY EDGE CONE DETAIL**

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

**KAKE AIRPORT SETTLEMENT REPAIRS  
RE-BID II  
PROJECT No. 68333**

**SAFETY PLAN**

**PLAN LEGEND**

CHECKED BY: C. Tripp

DESIGNED BY: J. Petropoulos  
DRAWN BY: N. Geary

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

**KAKE AIRPORT  
SETTLEMENT REPAIRS  
RE-BID II  
PROJECT #68333**

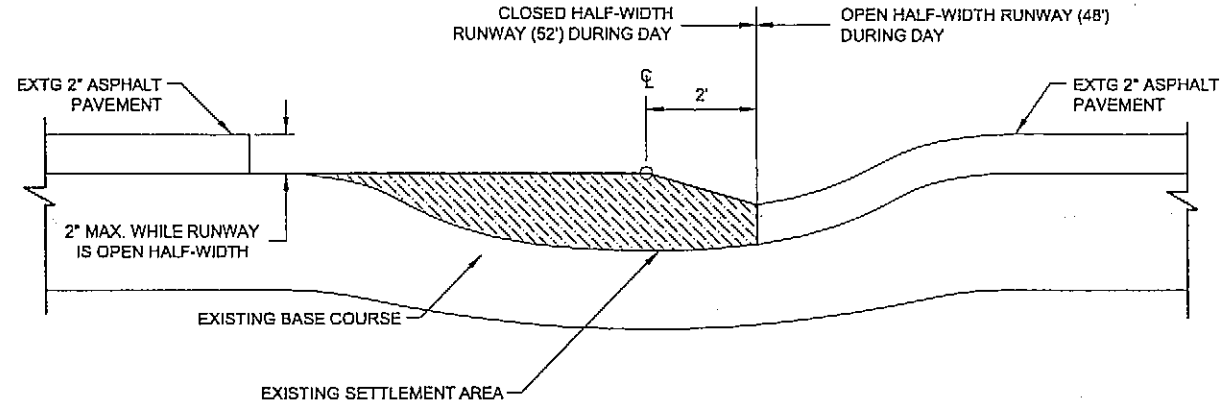
**CONSTRUCTION  
SAFETY PLAN**

PROJECT DESIGNATION	
68333	
STATE	YEAR
ALASKA	2008
SHEET NUMBER	TOTAL SHEETS
D5	15

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
Proj. Eng. *D. Howell* Date *11-7-08*

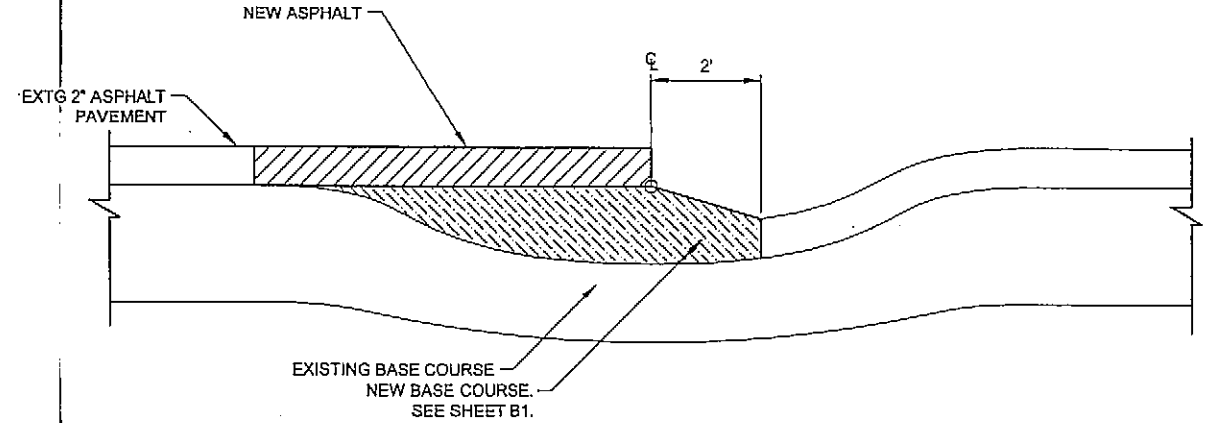
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

NO PAVING SHALL OCCUR WHILE THE RUNWAY IS OPEN HALF-WIDTH  
SAW CUTTING, PAVEMENT REMOVAL AND MINOR GRADING MAY OCCUR PROVIDED THE 2" MAX. ELEVATION CHANGE IS MET.



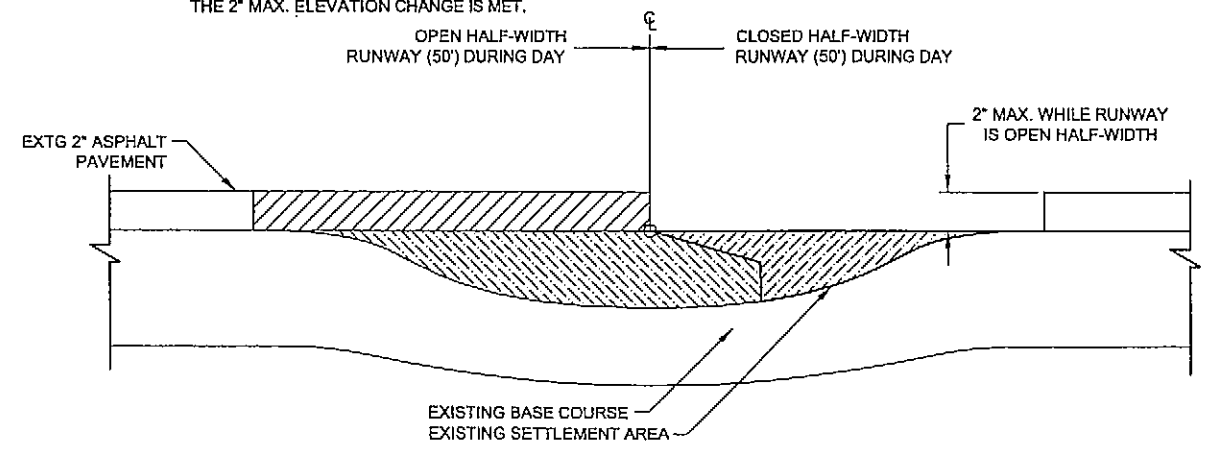
**PHASE 1 DAYTIME WORK - HALF-WIDTH CLOSURE**  
**(BASE BID)**  
NO SCALE

GRADING AND PAVING SHALL OCCUR WHILE RUNWAY IS CLOSED FULL WIDTH



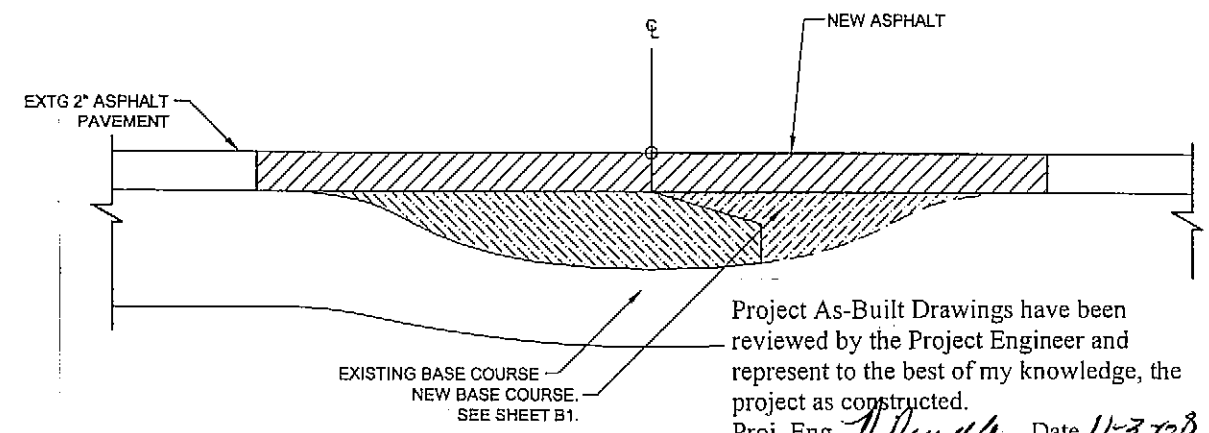
**PHASE 1 NIGHTTIME WORK - FULL WIDTH CLOSURE**  
**(BASE BID)**  
NO SCALE

NO PAVING SHALL OCCUR WHILE THE RUNWAY IS OPEN HALF-WIDTH  
SAW CUTTING, PAVEMENT REMOVAL AND MINOR GRADING MAY OCCUR PROVIDED THE 2" MAX. ELEVATION CHANGE IS MET.



**PHASE 2 DAYTIME WORK - HALF-WIDTH CLOSURE**  
**(BASE BID)**  
NO SCALE

GRADING AND PAVING SHALL OCCUR WHILE RUNWAY IS CLOSED FULL WIDTH



**PHASE 2 NIGHTTIME WORK - FULL WIDTH CLOSURE**  
**(BASE BID)**  
NO SCALE

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
Proj. Eng. *J. Petropoulos* Date *11-3-08*

- NOTES:
- SEE SHEET B1 FOR RUNWAY TYPICAL REPAIR SECTION.
  - CLOSED HALF OF RUNWAY SHALL BE WITHIN 2" OF FINAL PAVEMENT ELEVATIONS WHEN RUNWAY IS OPEN HALF-WIDTH. SEE SAFETY PLAN NOTES AND TEMPORARY RUNWAY CLOSURE NOTES, SHEETS D1-5.
  - AIRCRAFT SHALL NOT BE ALLOWED ON FRESH ASPHALT UNTIL FIVE DAYS AFTER ASPHALT PLACEMENT.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

KAKE AIRPORT SETTLEMENT REPAIRS  
RE-BID II  
PROJECT No. 68333  
PHASING PLAN

**PLAN LEGEND**

CHECKED BY: C. Tripp

DESIGNED BY: J. Petropoulos  
DRAWN BY: H. Geary

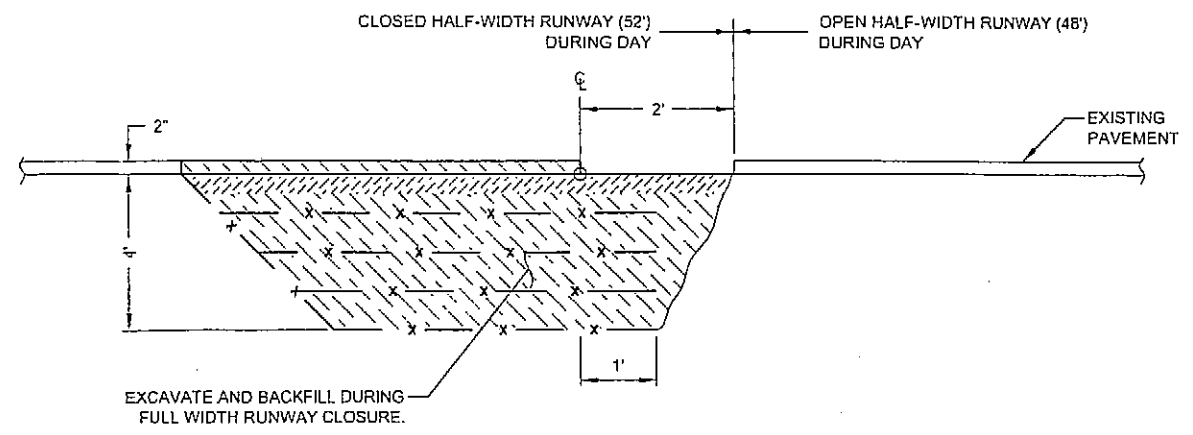
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
DESIGN & ENGINEERING SERVICES  
DIVISION-SOUTHEAST REGION

**KAKE AIRPORT  
SETTLEMENT REPAIRS  
RE-BID II  
PROJECT #68333**

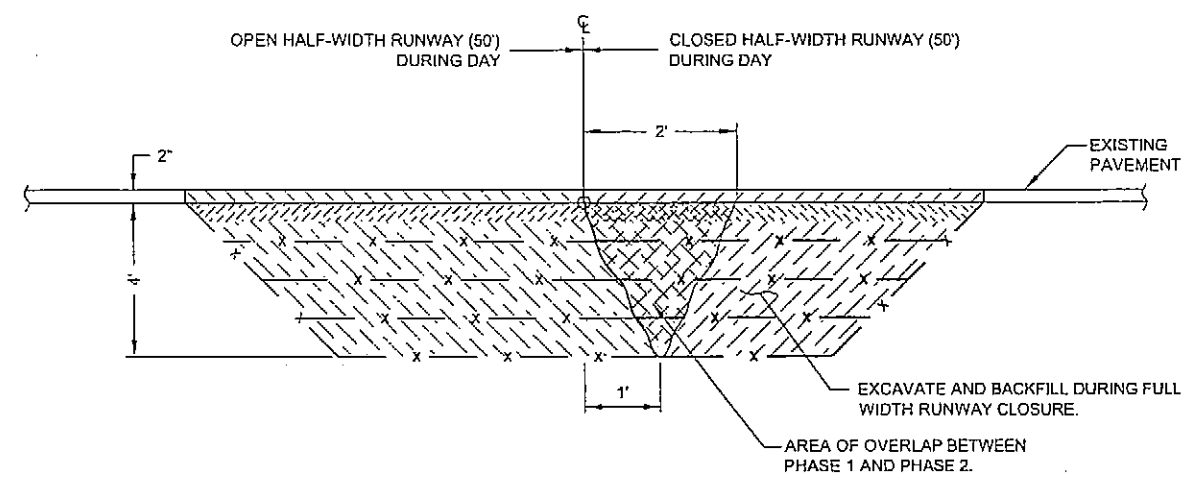
**PHASING PLAN**

PROJECT DESIGNATION	
68333	
STATE	YEAR
ALASKA	2008
SHEET NUMBER	TOTAL SHEETS
E1	15

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



**PHASE 1 NIGHTTIME WORK - TYPICAL RUNWAY REPAIR SECTION (ALTERNATE A)**  
NO SCALE



**PHASE 2 NIGHTTIME WORK - TYPICAL RUNWAY REPAIR SECTION (ALTERNATE A)**  
NO SCALE

- NOTES (APPLICABLE TO ALTERNATE A ONLY):
- SEE SHEET B1 FOR RUNWAY TYPICAL REPAIR SECTION.
  - CLOSED HALF OF RUNWAY SHALL BE WITHIN 2" OF FINAL PAVEMENT ELEVATIONS WHEN RUNWAY IS OPEN HALF-WIDTH.
  - SEE SAFETY PLAN NOTES AND TEMPORARY RUNWAY CLOSURE NOTES, SHEETS D1-5.
  - THERE IS AN AREA OF OVERLAP IN EXCAVATION BETWEEN PHASE 1 AND PHASE 2. USE CAUTION TO AVOID DAMAGING GEOTEXTILE FABRIC IN OVERLAPPING AREAS DURING EXCAVATION AND BACKFILLING. PROVIDE ADDITIONAL GEOTEXTILE FABRIC AS NECESSARY TO REPLACE FABRIC DAMAGED DURING EXCAVATION.
  - CONTRACTOR SHALL ONLY EXCAVATE WHAT CAN BE BACKFILLED IN A SINGLE 12 HOUR FULL-WIDTH CLOSURE.

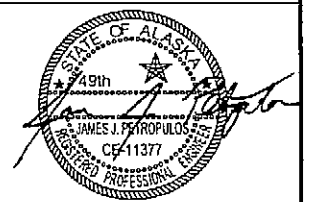
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
Proj. Eng. *M. Will* Date *11-3-08*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

KAKE AIRPORT SETTLEMENT REPAIRS  
 RE-BID II  
 PROJECT NO. 68333  
 PHASING PLAN

**PLAN LEGEND**

CHECKED BY: C. Tripp



DESIGNED BY: J. Petropoulos  
DRAWN BY: N. Geary

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
DESIGN & ENGINEERING SERVICES  
DIVISION-SOUTHEAST REGION  
**KAKE AIRPORT SETTLEMENT REPAIRS RE-BID II PROJECT #68333**

**PHASING PLAN**

PROJECT DESIGNATION	
68333	
STATE	YEAR
ALASKA	2008
SHEET NUMBER	TOTAL SHEETS
E2	15

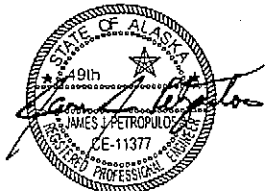
RECORD OF REVISIONS		
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KAKE AIRPORT SETTLEMENT REPAIRS  
RE-BID II  
PROJECT No. 68333

REPAIR PLAN

PLAN LEGEND

CHECKED BY: C. Tripp



DESIGNED BY: J. Petropoulos

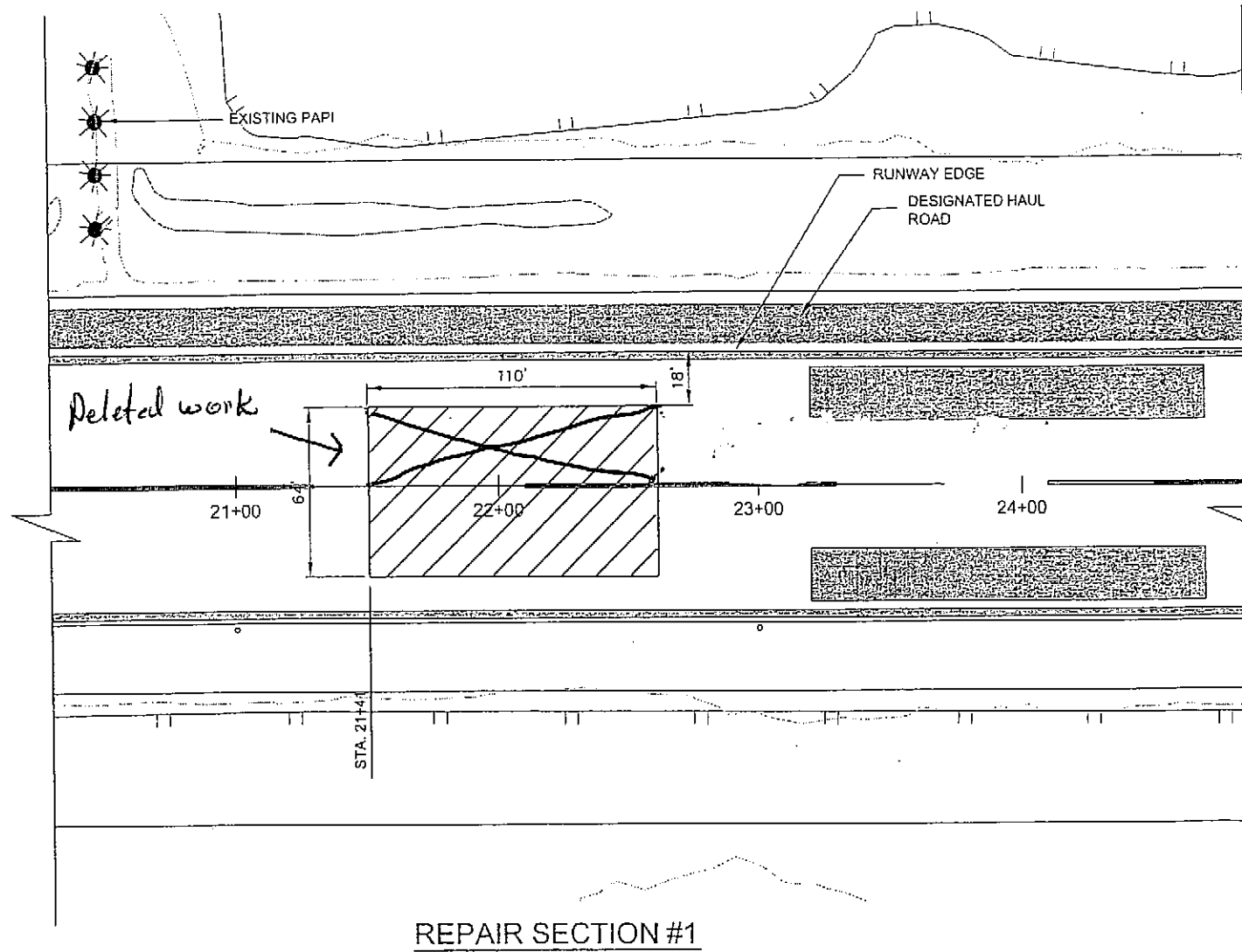
DRAWN BY: N. Geary

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

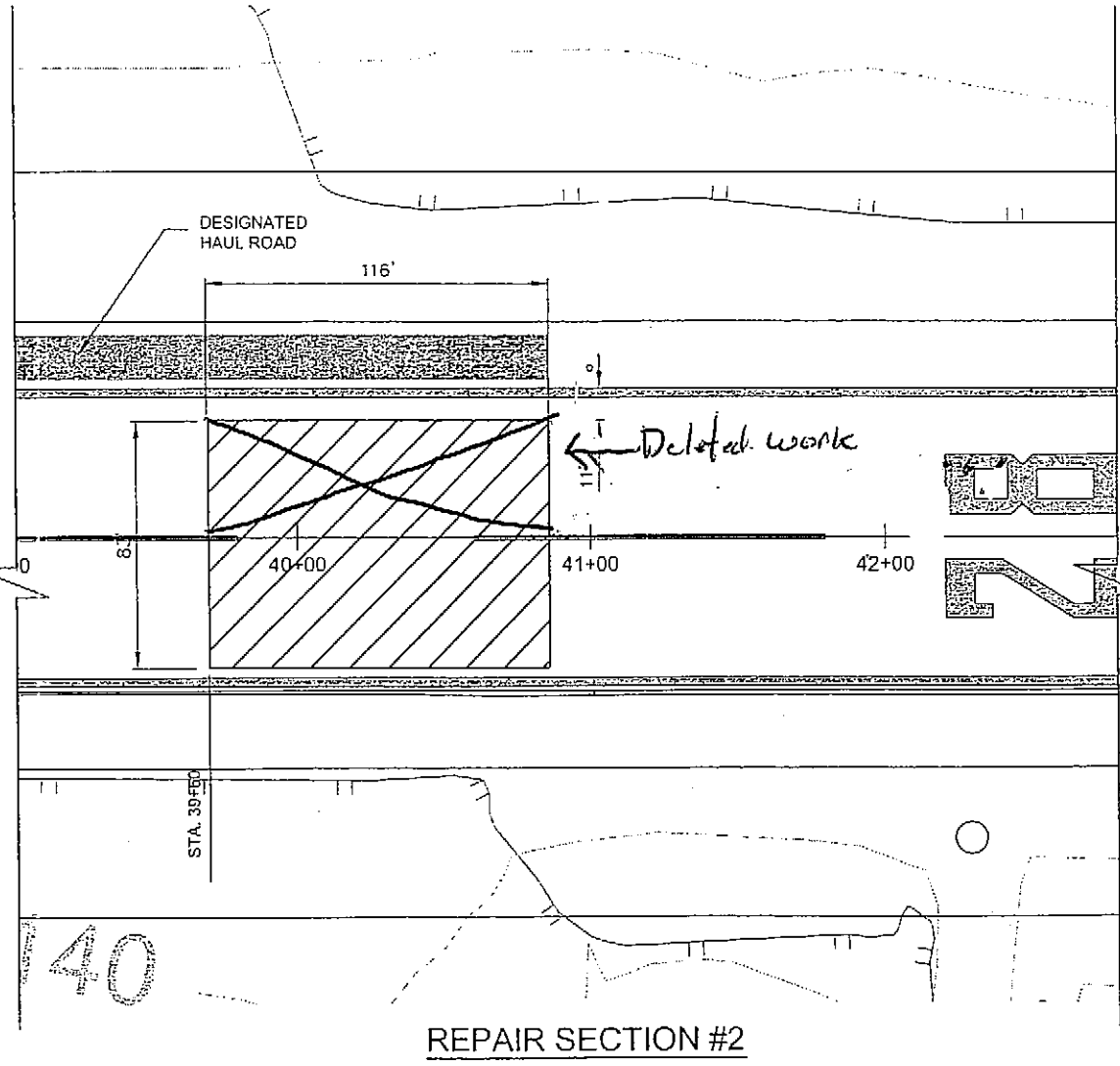
KAKE AIRPORT  
SETTLEMENT REPAIRS  
RE-BID II  
PROJECT #68333

REPAIR PLAN

PROJECT DESIGNATION:	
68333	
STATE	YEAR
ALASKA	2008
SHEET NUMBER	TOTAL SHEETS
F1	15



REPAIR SECTION #1



REPAIR SECTION #2

STRIPING NOTES:

1. THE CONTRACTOR SHALL AS-BUILT EXISTING RUNWAY MARKINGS WITHIN THE WORK AREA LIMITS PRIOR TO COMMENCING WORK IN THAT AREA AND SHALL RE-PAINT THOSE MARKINGS AFFECTED BY THE REPAIR PROJECT.
2. ANY DAMAGE CAUSED TO APRON/TAXIWAY/RUNWAY MARKINGS BEYOND THE WORK LIMITS AS A RESULT OF CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
3. REPAINTED LINES SHALL CONNECT WITH EXISTING LINES AT LIMITS OF WORK. PAINT MATERIALS AND STRIPING SHALL COMPLY WITH FAA ADVISORY CIRCULAR 150/5340-1J. GLASS BEADS REQUIRED PER AC 150/5340-1J, SECTION 1, 4. b. (1) MAY BE SPRINKLED BY HAND IF DESIRED.

CO #1 - Reduced scope of work from center line to Right edge line.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
Proj. Eng. *D. Howell* Date 11-3-08

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

**EROSION AND SEDIMENT CONTROL PLAN NOTES:**

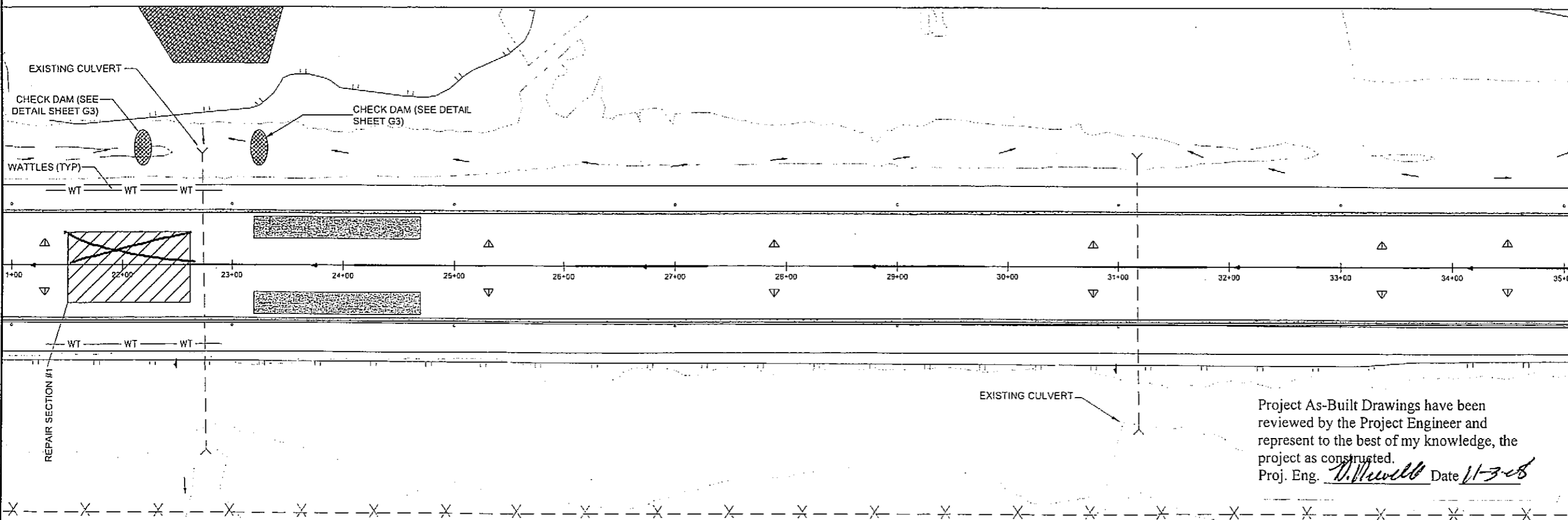
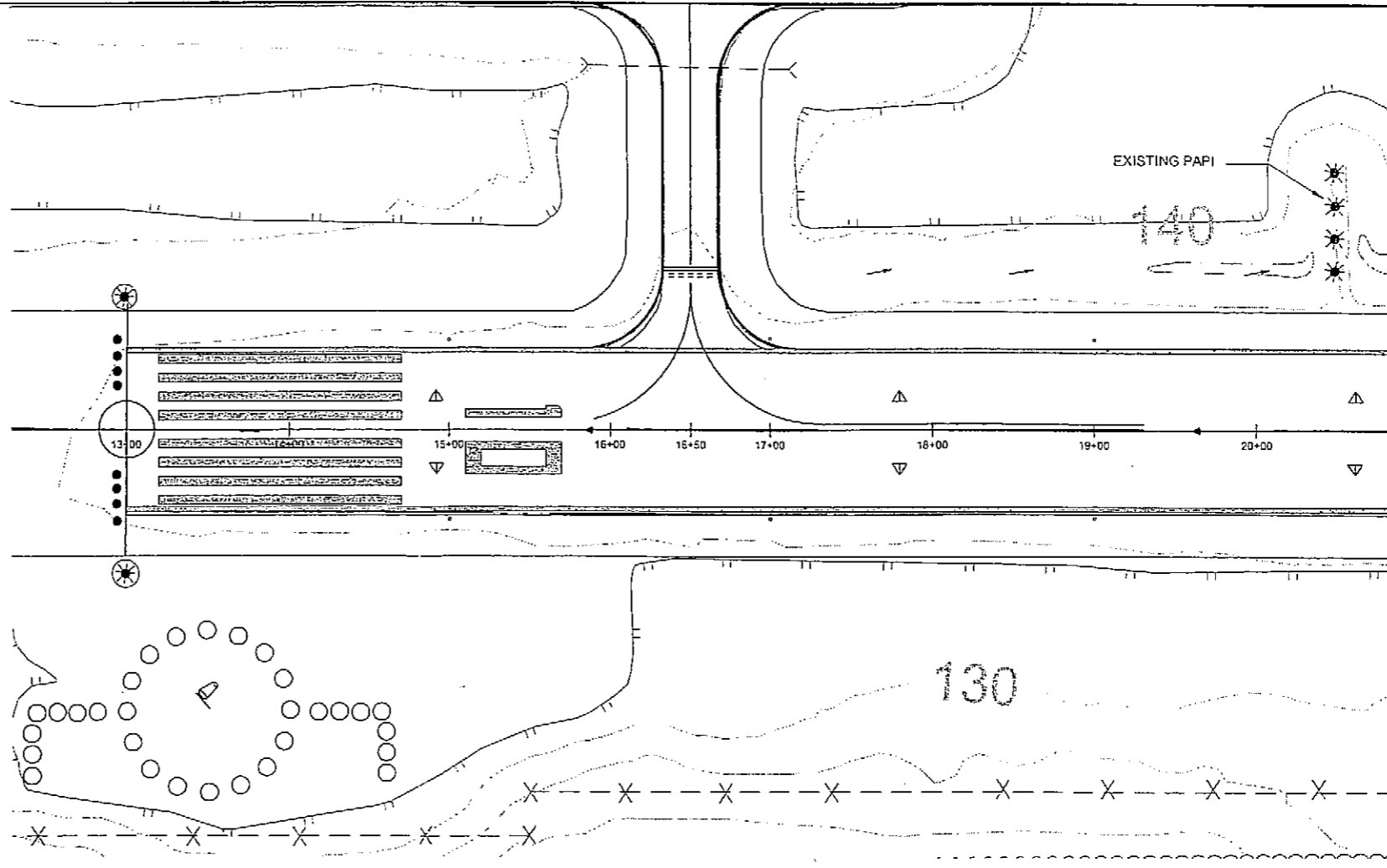
- FOR PROJECTS DISTURBING MORE THAN ONE ACRE: THE CONTRACTOR IS REQUIRED TO PRESENT A STORM WATER POLLUTION PREVENTION PLAN (S.W.P.P.P.) 5 DAYS PRIOR TO THE PRE-CONSTRUCTION CONFERENCE. THE CONTRACTOR'S S.W.P.P.P. SHALL INCLUDE, AT THE MINIMUM, THEIR PROPOSED LOCATIONS FOR SPECIAL DITCHES, AND TEMPORARY CHECK DAMS, AS WELL AS ANY OTHER BEST MANAGEMENT PRACTICES THAT ARE APPROPRIATE. THE "ALASKA S.W.P.P.P. GUIDE IS AVAILABLE FROM THE ADOT&PF SOUTHEAST REGIONAL OFFICE, OR WEBSITE. THIS PROJECT IS LOCATED LAT 56d57' N, LONG 133d55' W. KAKE IS SITUATED AT THE NORTHERN END OF THE ALEXANDER ARCHIPELAGO IN A MILD MARITIME CLIMATOLOGICAL AREA. AVERAGE SUMMER TEMPERATURES RANGE FROM 48d F TO 58d F WITH AN EXTREME HIGH BEING 83d F. WINTER TEMPERATURES AVERAGE FROM 29d F TO 36d F WITH AN EXTREME LOW OF -8d F. AVERAGE PRECIPITATION AT THE KAKE AIRPORT IS 110". THE AVERAGE SNOWFALL IN THE AREA IS 80".
- THE TOTAL AREA OF LAND TO BE DISTURBED IS ESTIMATED AT 0.4 ACRES.
- EXISTING DRAINAGE CULVERTS SHALL HAVE INLET PROTECTION (CHECK DAMS) INSTALLED PRIOR TO REMOVING PAVEMENT.
- ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSPECTED AT LEAST DAILY AND MAINTAINED UNTIL THE GROUND IS STABILIZED (AS DEFINED BY THE NPDES PERMIT). MAINTENANCE SHALL INCLUDE CLEANING OF COLLECTED SEDIMENT OR REPLACEMENT TO MAINTAIN EFFECTIVENESS.
- ADDITIONAL SILT FENCING OR CHECK DAMS MAY BE REQUIRED.

**BMP'S:**

- INSTALL WATTLES
  - PERPENDICULAR TO SHEET FLOW. FLARE AT ENDS TO CAPTURE RUN-OFF FROM PAVEMENT CUTS AND EXCAVATION.
  - AROUND MATERIAL STOCK PILES
  - PRIOR TO CUTTING PAVEMENT.
- COVER MATERIAL STOCKPILES WHEN NOT IN ACTIVE USE.
- INSTALL CHECK DAMS IN DRAINAGE DITCH PRIOR TO DISCHARGE INTO CULVERT.
- PROVIDE FILTER BAGS ON ENDS OF DEWATERING HOSES USED TO DEWATER EXCAVATION AREAS. FILTER BAGS SHALL BE UPSTREAM OF WATTLES.

**LEGEND**

- PROFILE DRAINAGE PATTERN
- SURFACE DRAINAGE PATTERN
- CULVERT FLOW DIRECTION
- DITCH DRAINAGE PATTERN
- WATTLES
- TEMPORARY ROCK CHECK DAM
- WETLANDS



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 Proj. Eng. *D. McNeill* Date *11-3-08*

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NKGEARY  
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ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

KAKE AIRPORT SETTLEMENT REPAIRS  
 RE-BID II  
 PROJECT No. 68333  
 EROSION & SEDIMENT CONTROL PLAN

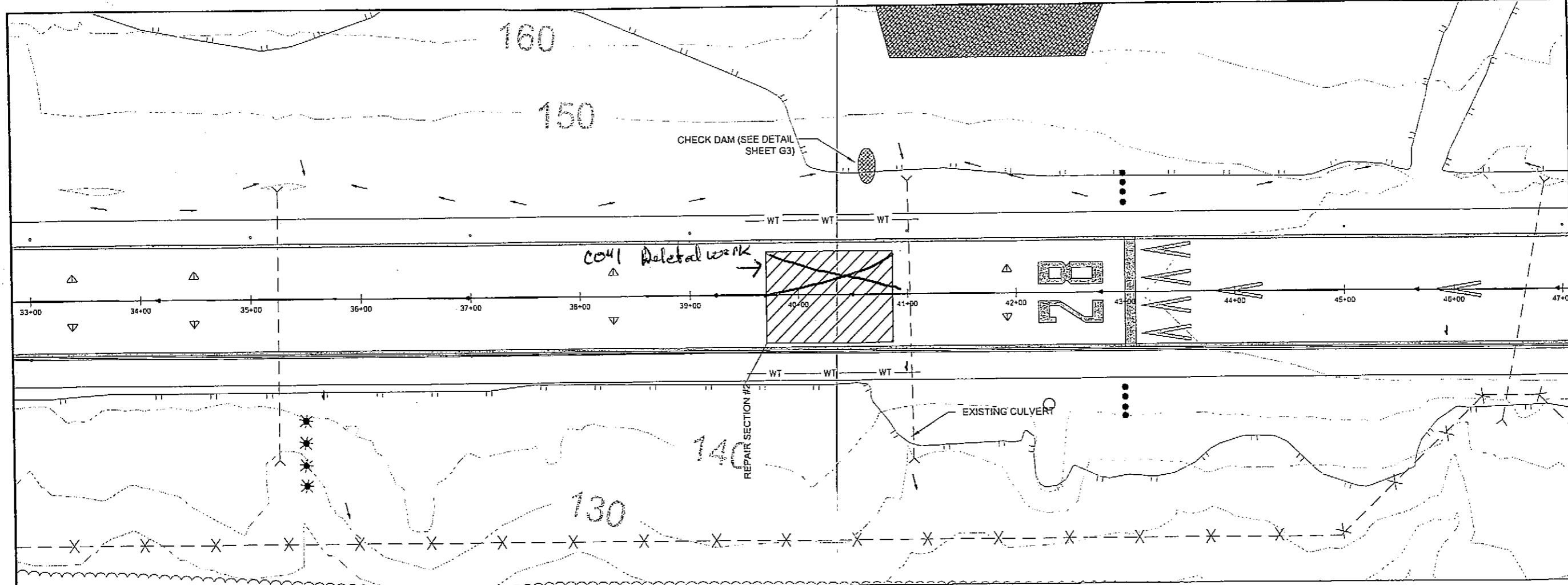
**PLAN LEGEND**

CHECKED BY: C. Tripp

DESIGNED BY: J. Petropoulos  
 DRAWN BY: N. Geary

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 DESIGN & ENGINEERING SERVICES  
 DIVISION-SOUTHEAST REGION  
**KAKE AIRPORT SETTLEMENT REPAIRS RE-BID II PROJECT #68333**  
**EROSION & SEDIMENT CONTROL PLAN**

PROJECT DESIGNATION	
68333	
STATE	YEAR
ALASKA	2008
SHEET NUMBER	TOTAL SHEETS
G1	15



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NKGEARY  
 TAB: G2 Monday, May 12, 2008 10:55:29 AM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KAKE AIRPORT SETTLEMENT REPAIRS  
 RE-BID II  
 PROJECT No. 68333  
 EROSION & SEDIMENT CONTROL PLAN

**LEGEND**

- PROFILE DRAINAGE PATTERN
- SURFACE DRAINAGE PATTERN
- CULVERT FLOW DIRECTION
- DITCH DRAINAGE PATTERN
- WATTLIES
- TEMPORARY ROCK CHECK DAM
- WETLANDS

**PLAN LEGEND**

CHECKED BY: C. Tripp

DESIGNED BY: J. Petropoulos  
 DRAWN BY: N. Geary

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

**KAKE AIRPORT SETTLEMENT REPAIRS  
 RE-BID II  
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 EROSION & SEDIMENT CONTROL PLAN**

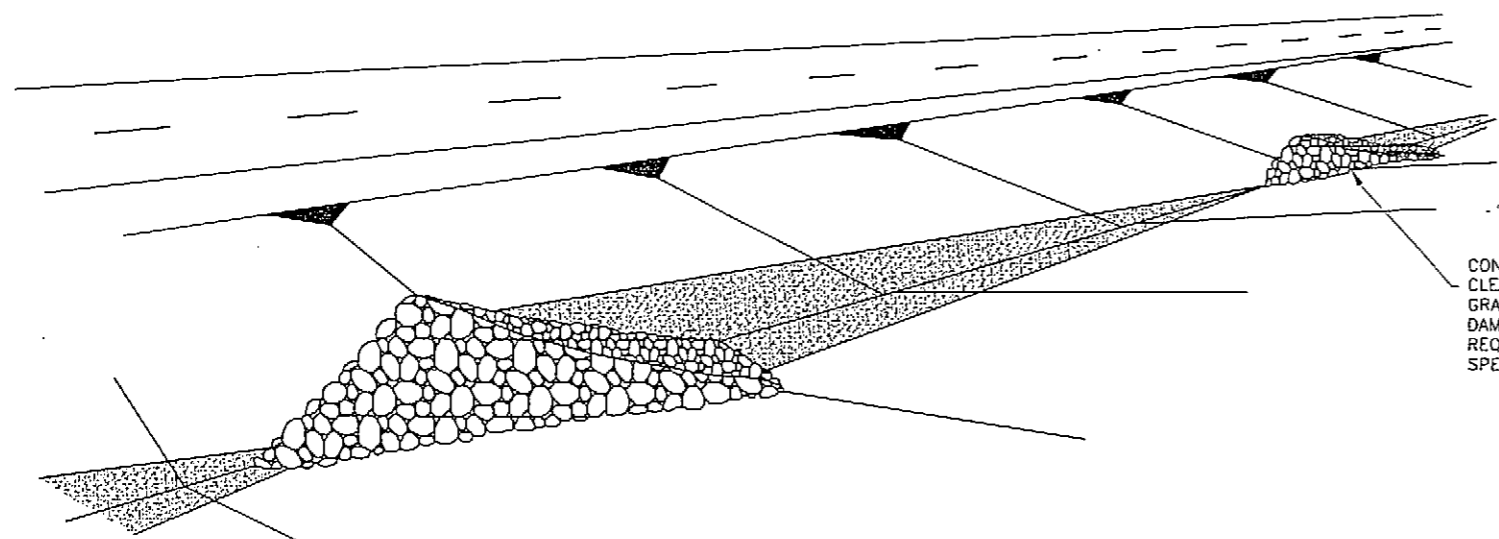
PROJECT DESIGNATION: 68333

STATE	YEAR
ALASKA	2008
SHEET NUMBER	TOTAL SHEETS
G2	15

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 Proj. Eng. *D. McNeill* Date *11-7-08*

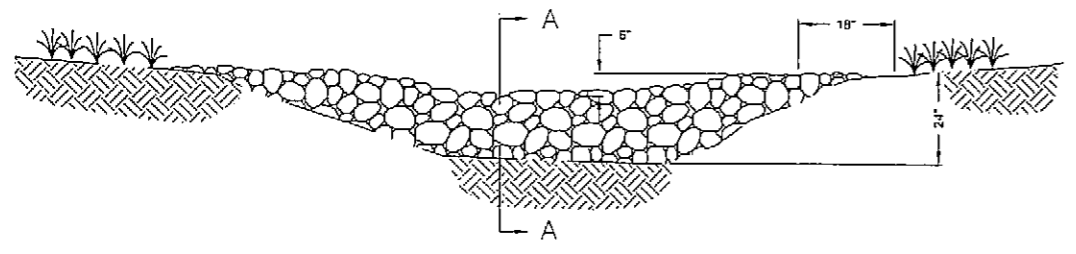
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RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

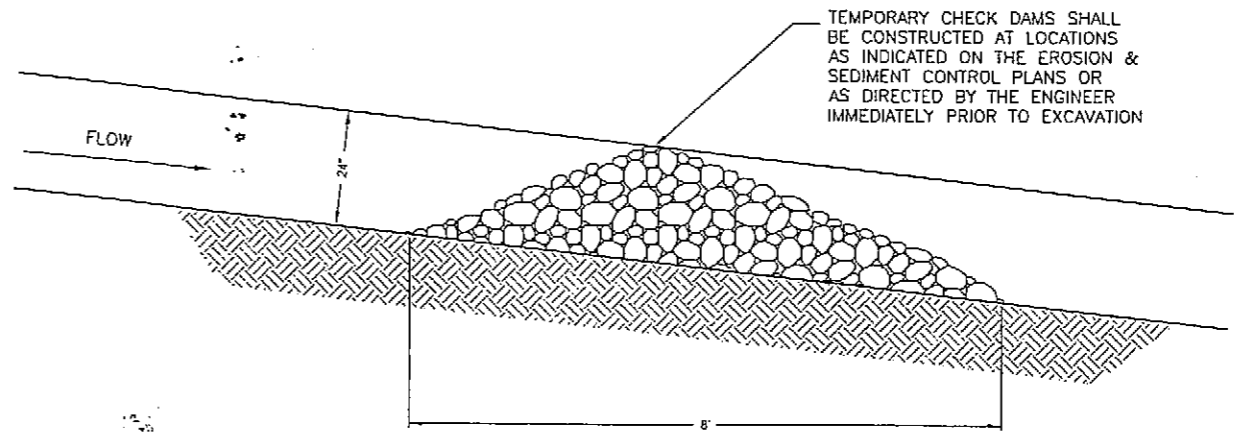


CONSTRUCT TEMPORARY CHECK DAMS WITH CLEAN ROCK OF SUFFICIENT SIZE AND GRADATION TO WORK EFFECTIVELY AS CHECK DAM MATERIAL ACCORDING TO MATERIAL REQUIREMENTS IN ITEM P-157 OF THE SPECIFICATIONS, AND AS APPROVED.

ISOMETRIC VIEW



VIEW LOOKING UPSTREAM



TEMPORARY CHECK DAMS SHALL BE CONSTRUCTED AT LOCATIONS AS INDICATED ON THE EROSION & SEDIMENT CONTROL PLANS OR AS DIRECTED BY THE ENGINEER IMMEDIATELY PRIOR TO EXCAVATION

SECTION A-A

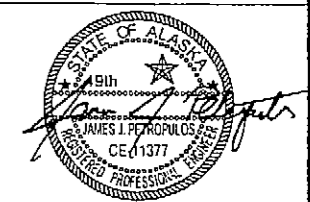
"L" = THE DISTANCE SUCH THAT POINTS 'A' AND 'S' ARE OF EQUAL ELEVATION

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 Proj. Eng. *D. Newell* Date *11-3-08*

KAKE AIRPORT SETTLEMENT REPAIRS  
 RE-BID II  
 PROJECT No. 68333  
 EROSION & SEDIMENT CONTROL PLAN

PLAN LEGEND

CHECKED BY: C. Tripp



DESIGNED BY: J. Petropoulos

DRAWN BY: N. Geary

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
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KAKE AIRPORT  
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PROJECT DESIGNATION/  
 68333

STATE	YEAR
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G3	15