

DCNO

3567

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

DEVIL CANYON FEASIBILITY ESTIMATE

PHASE II

Contract NO. 5225

Work Order NO. 5

Diversified Engineers & Constructors, Inc.
P. O. Box 487
Cottonwood, Arizona 86326 247

OPERATION Saddle Dam Common Excavation

OPERATION Saddle Dam Common Excavation ITEM NO. 332.411 SHEET OF PAGE 27

ITEM NO. 332.411 SHEET OF PAGE 27

Job Devil Canyon - Stage 2

BID QUANTITY 1,145,000 UNIT CY TAKE OFF QUANTITY _____ EST. BY Art Lee DATE _____

[illegible]

OPERATION Saddle Dam Fill - Impervious Core

OPERATION Saddle Dam Fill - Impervious Core

ITEM NO. 332.41B SHEET _____ OF _____ PAGE 29

JOB Devil Canyon - Stage 2

BID QUANTITY 313.500 UNIT CY TAKE OFF QUANTITY

EST. BY Art Lee

DATE _____

[illegible]

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.

OPERATION Fine Filter

ITEM NO. 332.41C

SHEET ____ OF ____ PAGE 80

JOB Devil Canyon - Stage 2

EST. BY Art Lee

DATE

BID QUANTITY 231.000 UNIT CY

TAKE OFF QUANTITY

PER ORIGINAL - ESCALATE

QUANTITY

UNIT

**CONSTRUCTION
LABOR & INSURANCE**

**CONSTRUCTION
SUPPLIES**

**EQUIPMENT
REPAIR LABOR**

**EQUIPMENT
RENT**

**EQUIPMENT
SUPPLIES**

PERMANENT MATERIALS

SUB-CONTRACTS

**TOTAL
DIRECT COST**

231.000

4

218

[illegible]

1

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SUPPLIES

PERMANENT MATERIALS

SUB-CONTRACTS

TOTAL

705	1813350
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OPERATION Coarse Filter

ITEM NO. 332.41D SHEET OF PAGE 21

JOB Devil Canyon - Stage 2

BID QUANTITY 193,000 UNIT CY TAKE OFF QUANTITY _____ EST. BY Art Lee DATE _____

[illegible]

OPERATION Riprap

OPERATION

ITEM NO. 332.41E

- SHEET ____ OF ____ PAGE 82

JOB

Devil Canyon - Stage 2

BID QUANTITY 174.500 UNIT CY

TAKE OFF QUANTITY

EST. BY

Art Lee

DATE _____

[illegible]

OPERATION Shall Fill - U/S

ITEM NO. 332.41F SHEET OF PAGE 83

JOB Devil Canyon - Stage 2

BID QUANTITY 534.000 UNIT CY TAKE OFF QUANTITY

EST. BY Art Lee[illegible]

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.

OPERATION Rock Fill

ITEM NO. 332.41H SHEET _____ OF _____ PAGE 95

JOB Devil Canyon - Stage 2

BID QUANTITY 127.000 UNIT CY TAKE OFF QUANTITY

EST. BY Art Lee

DATE _____

[illegible]

OPERATION Drill & Grout Consolidation ITEM NO. 332.913 SHEET OF PAGE 86
JOB Devil Canyon - Stage 2
BID QUANTITY 57.500 UNIT LF TAKE OFF QUANTITY EST. BY Art Lee DATE

_____ JOB Devil Canyon - Stage 2

BID QUANTITY 57.500 UNIT LF TAKE OFF QUANTITY _____ EST. BY Art Lee DATE _____

[illegible]

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.

OPERATION Dental Concrete

ITEM NO. 332,414 SHEET OF PAGE 87

Job Devil Canyon - Stage 2

BID QUANTITY 7,100 UNIT CY TAKE OFF QUANTITY _____ EST. BY Art Lee DATE _____

[illegible]

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.

OPERATION Out let Facilities Mechanical & Electrical ITEM NO. 332-51 SHEET OF PAGE 88

ITEM NO. 332-51 SHEET OF PAGE 88

JOB Devil Canyon - Stage 2

BID QUANTITY 1 UNIT LS TAKE OFF QUANTITY _____ EST. BY Art Lee DATE _____

[illegible]

OPERATION Main Spillway Common Excavation - ITEM NO. 332.521 SHEET OF PAGE 27

OPERATION Main Spillway Common Excavation - ITEM NO. 332.521 SHEET OF PAGE 27

OPERATION Approach & Control Structure JOB Devil Canyon - Stage 2
BY Art Lee

BID QUANTITY 73.000 UNIT CY TAKE OFF QUANTITY _____ EST. BY Arl Lee DATE _____

[illegible]

[illegible]

OPERATION River Channel Alluvium Excavation ITEM NO. 332.52A SHEET OF PAGE 91

OPERATION River Channel Alluvium Excavation ITEM NO. 332.52A SHEET OF PAGE 91

_____ JOB Devil Canyon - Stage 2

BID QUANTITY 67.000 UNIT CY TAKE OFF QUANTITY _____ EST BY Art Lee DATE _____

[illegible]

OPERATION Rock Excavation, Approach Structure ITEM NO. 332.52B SHEET OF PAGE 92
JOB Devil Canyon - Stage 2
BID QUANTITY 280,000 UNIT CY TAKE OFF QUANTITY EST. BY Art Lee DATE

OPERATION Rock Excavation, Approach Structure ITEM NO. 332.52B SHEET OF PAGE 92

JOB Devil Canyon - Stage 2

BID QUANTITY 280,000 UNIT CY TAKE OFF QUANTITY _____ EST. BY Art Lee DATE _____

[illegible]

OPERATION Rock Excavation, Control Structure

JOB Devil Canyon - Stage 2

BID QUANTITY 230,000 INIT CY TAKE OFF QUANTITY _____

EST BY DATE

[illegible]

DIVERSIFIED ENGINEERS & CONSTRUCTORS, Horizontal Drain Tunnel 10 x 10

ITEM NO. 332.52D SHEET _____ OF _____ PAGE 95

OPERATION Devil Canyon - Stage 2

BID QUANTITY 430 UNIT CY TAKE OFF QUANTITY _____ EST. BY Art Lee DATE _____

[illegible]

OPERATION Inclined Drain Tunnel 10 x 10 ITEM NO. 332.52E SHEET OF PAGE 96

OPERATION Inclined Drain Tunnel 10 x 10 ITEM NO. 332.52E SHEET OF PAGE 96

_____ JOB Devil Canyon - Stage 2

BID QUANTITY 670 UNIT LF TAKE OFF QUANTITY _____ EST BY Art Lee DATE _____

[illegible]

OPERATION Drill & Grout Consolidation

ITEM NO. 332.523 SHEET _____ OF _____ PAGE 97

OPERATION

Drill & Grout Consolidation

JOB Devil Canyon - Stage 2

BID QUANTITY 22.000 UNIT LF

TAKE OFF QUANTITY

EST. BY Art Lee DATE _____[illegible]

0 0 3 5 6 7

BID QUANTITY 35.800 UNIT CY TAKE OFF QUANTITY _____ EST BY Art Lee DATE _____

[illegible]

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.

OPERATION Guide Walls

ITEM NO. 332.52H SHEET _____ OF _____ PAGE 100

JOB Devil Canyon - Stage 2

BID QUANTITY 23.000 UNIT CY TAKE OFF QUANTITY _____ EST. BY Art Lee DATE _____

EST. BY Art Lee

DATE _____

[illegible]

OPERATION Slab

ITEM NO. 332.521 SHEET _____ OF _____ PAGE 101

JOB Devil Canyon - Stage 2

EST BY Art Lee

EST BY Art Lee DATE _____

BID QUANTITY 14,500 UNIT CY TAKE OFF QUANTITY

BID QUANTITY		UNIT		TAKE OFF QUANTITY		EST BY		DATE		CONSTRUCTION LABOR & INSURANCE		CONSTRUCTION SUPPLIES		EQUIPMENT REPAIR LABOR		EQUIPMENT RENT		EQUIPMENT SUPPLIES		PERMANENT MATERIALS		SUB-CONTRACTS		TOTAL DIRECT COST	
19,500		CY																							
PER ORIGINAL - ESCALATE				14,500	CY	9281	1345745	748	102140	1875	2711875	1715	248475	2061	2711875	9281	1201415	1600	232000	2871	2727215				

OPERATION Ogee

ITEM NO. 332.52J SHEET OF PAGE 102

JOB Devil Canyon - Stage 2

BID QUANTITY 24,000 UNIT CY TAKE OFF QUANTITY _____ EST BY Art Lee

EST BY Art Lee DATE 11/1/77[illegible]

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.

OPERATION Flip Bucket

ITEM NO. 332, 52K SHEET OF PAGE 103

JOB Devil Canyon - Stage 2

EST. BY Art Lee

DATE

BID QUANTITY 7.000 UNIT CY TAKE OFF QUANTITY

[illegible]

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.
OPERATION Drain Gallery Concrete Slab

OPERATION Drain Gallery Concrete Slab

ITEM NO. 332.52L

- SHEET ____ OF ____ PAGE 104

JOB Devil Canyon - Stage 2

Devil Canyon - Stage 2

BID QUANTITY 400

UNIT CY

TAKE OFF QUANTITY

EST. BY

Art Lee

- DAT

[illegible]

[illegible]

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.
OPERATION 10' Rockbolts

ITEM NO. 332.526 SHEET OF PAGE 106

OPERATION 10' Rockbolts

Devil Canyon - Stage 2

EST. BY Art Lee

DATE _____

BID QUANTITY 6.520 UNIT Ea TAKE OFF QUANTITY

EST. BY

Art Lee

DATE _____

**CONSTRUCTION
LABOR & INSURANCE**

CONSTRUCTION SUPPLIES

**EQUIPMENT
REPAIR LABOR**

EQUIPMENT
RENT

EQUIPMENT SUPPLIES

PERMANENT MATERIALS

SUB-CONTRACTS

**TOTAL
DIRECT COST**

PER ORIGINAL - ESCALOTE

6520

EP.

2269

158

459

191

453

1074

[illegible]

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DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.

OPERATION Spillway Mechanical & Electrical

ITEM NO. 332-521 SHEET _____ OF _____ PAGE 108
JOB Devil Crane

JOB Devil Canyon - Stage 2

EST BY Art Lee

— OF — PAGE 108

BID QUANTITY 1 UNIT LS TAKE OFF QUANTITY

EST BY Art Lee DATE

0 0 3 5 6 7

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.
 OPERATION: Power & Outlet Intake & Approach ITEM NO 332.611 SHEET OF PAGE 109
 JOB Devil Canyon - Stage 2

ITEM NO. 332.611 SHEET OF PAGE 109

Devil Canyon - Stage 2

JOB Devil Canyon - Stage 2

EST BY ART LCC DATE

[illegible]

OPERATION Rock Excavation - Approach

ITEM NO 332.612 SHEET 0
JOB Devil Canyon - Stage 2

108 Devil Canyon - Stage 2

EST BY Art Lee DATE

BID QUANTITY 216.200 UNIT CY TAKE OFF QUANTITY

[illegible]

OPERATION Concrete

ITEM NO. 332.614 SHEET OF PAGE III

JOB Devil Canyon - Stage 2

JOB _____
EST BY Art Lee

EST BY Art Lee DATE _____

BID QUANTITY 37,900 UNIT CY TAKE OFF QUANTITY

OPERATION		Concrete		JOB		Devil Canyon - Stage 2		EST BY		DATE		CONSTRUCTION LABOR & INSURANCE		CONSTRUCTION SUPPLIES		EQUIPMENT REPAIR LABOR		EQUIPMENT RENT		EQUIPMENT SUPPLIES		PERMANENT MATERIALS		SUB-CONTRACTS		TOTAL DIRECT COST											
BID QUANTITY		37,900		UNIT		CY		TAKE OFF QUANTITY																													
PER ORIGINAL - ESCALATE		37,900		CY		81.50		3103631		9.15		246785		12.15		418385		12.44		5197714		14.44		556751		76.7		2884943		14.80		206400		22.12		8518505	

OPERATION 1" x 15' Rockbolts

ITEM NO 332.615 SHEET 1 OF 1 PAGE 112

Devil Canyon - Stage 2

BID QUANTITY 150

UNIT Ea

TAKE OFF QUANTITY

ESI BY Art Lee

DATE _____

OPERATION		JOB		EST. BY		DATE		CONSTRUCTION LABOR & INSURANCE		CONSTRUCTION SUPPLIES		EQUIPMENT REPAIR LABOR		EQUIPMENT RENT		EQUIPMENT SUPPLIES		PERMANENT MATERIALS		SUB-CONTRACTS		TOTAL DIRECT COST		
BID QUANTITY	UNIT	TAKE OFF QUANTITY	EST. BY	DATE	CONSTRUCTION LABOR & INSURANCE	CONSTRUCTION SUPPLIES	EQUIPMENT REPAIR LABOR	EQUIPMENT RENT	EQUIPMENT SUPPLIES	PERMANENT MATERIALS	SUB-CONTRACTS	TOTAL DIRECT COST												
150	Ea	150	Art Lee		491.5	2.51	586.14	1.12	738.98	1473.50	7227	16921												
PER ORIGINAL ESCALATE																								

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.
OPERATION Intake Mechanical & Electrical

ITEM NO. 332.61C SHEET OF PAGE 113
JOB Devil Canyon - Stage 2

— JOB _____
by Art Lee _____ DATE _____

BID QUANTITY 1 UNIT LS TAKE OFF QUANTITY

QUANTITY	UNIT
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UNIT

**CONSTRUCTION
- BOB & INSURANCE**

**CONSTRUCTION
SUPPLIES**

**EQUIPMENT
REPAIR LABOR**

EQUIPMENT

EQUIPMENT
SUPPLIES

PERMANENT
MATERIALS

SUB-CONTRACTS

**TOTAL
DIRECT COST**

LS 2120380 LS 2120380

PER ORIGINAL

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.
OPERATION Intake Building

ITEM NO. 332.61D SHEET OF PAGE 114

OPERATION Intake Building

109 Devil Canyon - Stage 2

EST BY Art Lee

DATE _____

BID QUANTITY 1 UNIT LS TAKE OFF QUANTITY

EST BY Art Lee DATE _____

DATE _____

BID QUANTITY		UNIT	TAKE OFF QUANTITY	JOB	EST BY	DATE	CONSTRUCTION LABOR & INSURANCE	CONSTRUCTION SUPPLIES	EQUIPMENT REPAIR LABOR	EQUIPMENT RENT	EQUIPMENT SUPPLIES	PERMANENT MATERIALS	SUB-CONTRACTS	TOTAL DIRECT COST
1		LS			Art Lee									
PER ORIGINAL		1	LS										LS 150000	LS 150000

0 0 3 5 6 7

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.
OPERATION Surge Chamber

OPERATION Surge Chamber Rock Excavation

ITEM NO 332.711 SHEET OF PAGE 115

JOB Devil Canyon - Stage 2

EST BY Art Lee DATE _____

BID QUANTITY 153.800 UNIT CY TAKE OFF QUANTITY

BID QUANTITY 153 800 UNIT CY TAKE OFF QUANTITY		JOB Devil Canyon - Stage 2		PAGE 272												
		EST BY Art Lee		DATE												
QUANTITY	UNIT	CONSTRUCTION LABOR & INSURANCE	CONSTRUCTION SUPPLIES	EQUIPMENT REPAIR LABOR	EQUIPMENT RENT	EQUIPMENT SUPPLIES	PERMANENT MATERIALS	SUB-CONTRACTS	TOTAL DIRECT COST							
PER ORIGINAL ESCALATE	153800 CY	30.78	4033964	129	1928152	1060	1630250	963	1481094	1129	1732326	2569			1109	1545642

0 0 3 5 6 7

OPERATION Vent Shaft Excavation (16')

ITEM NO 332.712 SHEET OF PAGE 116

JOB Devil Canyon - Stage 2

BID QUANTITY 850 UNIT LF TAKE OFF QUANTITY

EST BY Art Lee DATE _____

[illegible]

OPERATION Concrete

ITEM NO. 332.714 SHEET OF PAGE 117

JOB Devil Canyon - Stage 2

BID QUANTITY 1,300 UNIT CY TAKE OFF QUANTITY

ESI BY Art Lee

DATE _____

JOB		DEVIL CANYON - Stage 1		EST BY		Art Lee		DATE													
BID QUANTITY	UNIT	TAKE OFF QUANTITY	UNIT	CONSTRUCTION LABOR & INSURANCE	CONSTRUCTION SUPPLIES	EQUIPMENT REPAIR LABOR	EQUIPMENT RENT	EQUIPMENT SUPPLIES	PERMANENT MATERIALS	SUB-CONTRACTS	TOTAL DIRECT COST										
1.300	CY																				
PER ORIGINAL ESCALATE				1300	CY	46.23	200879	42.95	54478	39.01	52713	40.12	52156	46.10	20320	40.23	130039	46.23	20800	750.45	975525

OPERATION Drain Holes

ITEM NO. 332.717 SHEET OF PAGE 112

JOB Devil Canyon - Stage 2

EST BY Art Lee

DATE

BID QUANTITY 13,650 UNIT LF TAKE OFF QUANTITY

[illegible]

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.

OPER ON Penstocks - Excavation Inclined 24" Dia ITEM NO 332.811 SHEET 17 OF 17 PAGE 17

OPER ON Penstocks - Excavation JOB Devil Canyon - Stage 2

BID QUANTITY 2,550 UNIT LF TAKE OFF QUANTITY _____ EST BY Art Lee DATE _____

[illegible]

OPERATION Excavation Inclined 20' Dia.

ITEM NO 332.810 SHEET OF PAGE 126

JOB Devil Canyon - Stage 2

BID QUANTITY 200 UNIT LF TAKE OFF QUANTITY _____ EST BY Art Lee DATE _____

[illegible]

0 0 3 5 6 7

OPERATION: Excavation Horizontal 20' Dia.

ITEM NO 332.812 SHEET OF PAGE 124

OPERATION: Excavation Horizontal 20' Dia.

JOB Devil Canyon - Stage 2

BID QUANTITY 950 UNIT LF TAKE OFF QUANTITY

EST BY Art Lee DATE

[illegible]

TITLE : DEVIL CANYON FEASIBILITY ESTIMATE

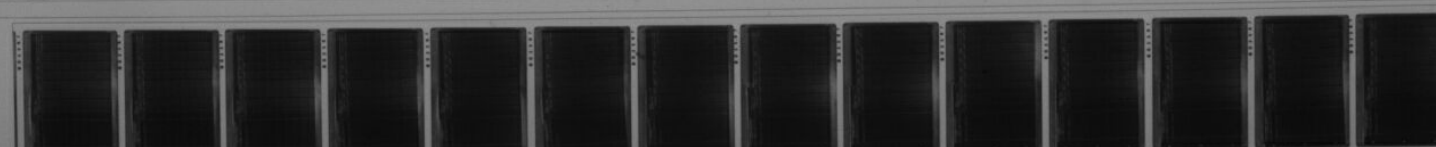
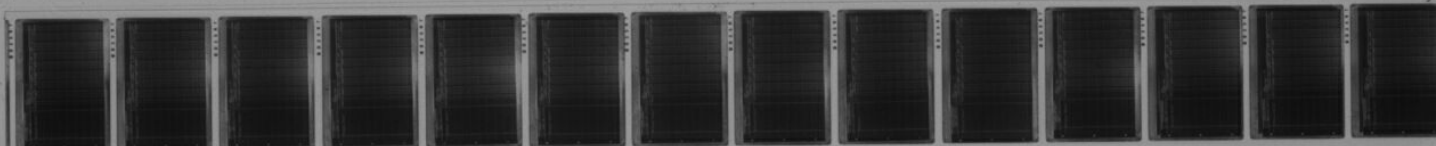
CONTRACT #5225 WORK ORDER #5 VOL. II

AUTHOR: DIVER

FICHE 1 OF 3

DATE : 860109

DOCUMENT NO. 3567



OPERATION Drill & Grout Consolidation

ITEM NO. 332.813 SHEET OF PAGE 122

JOB Devil Canyon - Stage 2

BID QUANTITY 1 UNIT LS TAKE OFF QUANTITY _____ EST. BY Art Lee DATE _____

[illegible]

OPERATION Penstock Concrete Liner, Inclined 20'

OPERATION Penstock Concrete Liner, Inclined 20'

ITEM NO. 332.814 SHEET OF PAGE 123

JOB Devil Canyon - Stage 2

EST. BY Art Lee

DATE _____

BID QUANTITY		2.550		UNIT		LF		TAKE OFF QUANTITY		JOB		Devil Canyon - Stage 2		EST. BY		Art Lee		DATE	

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.
 OPERATION Steel Lined, Inclined 15' Concrete ITEM NO. 332.81B SHEET OF PAGE 124

Liner _____ JOB _____ Devil Canyon - Stage 2 _____

BID QUANTITY 200 UNIT LF TAKE OFF QUANTITY _____ EST. BY Art Lee DATE _____

[illegible]

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.

OPERATION Penstock Concrete Liner

ITEM NO. 332.815 SHEET OF PAGE 125

Horizontal 15' I.D.

108 Devil Canyon - Stage 2

BID QUANTITY 950 UNIT LF TAKE OFF QUANTITY _____ EST. BY Art Lee DATE _____

[illegible]

DIVERSIFIED ENGINEERING
OPERATION Steel Liner

332.816
Devil Canyon - Stage 2

JOB _____ DATE _____
EST. BY Art Lee

BID QUANTITY 2,000

UNIT Tn

TAKE OFF QUANTITY

QUANTITY

UNIT

CONSTRUCTION
LABOR & INSURANCE

**CONSTRUCTION
SUPPLIES**

**EQUIPMENT
REPAIR LABOR**

**EQUIPMENT
RENT**

EQUIPMENT
SUPPLIES

**PERMANENT
MATERIALS**

SUB-CONTRACTS

**TOTAL
DIRECT COST**

312 6.224000312 6.224000

PER ORIGINAL

OPERATION Tailrace Tunnel Excavation 42'

ITEM NO. _____ Devil Canyon - Stage 2

JOB _____
EST BY Art Lee DATE _____

BID QUANTITY 6.730

UNIT LF

TAKE OFF QUANTITY

EST. BY Art Lee DATE _____

CONSTRUCTION
LABOR & INSURANCE

**CONSTRUCTION
SUPPLIES**

**EQUIPMENT
REPAIR LABOR**

**EQUIPMENT
RENT**

EQUIPMENT
SUPPLIES

**PERMANENT
MATERIALS**

SUB-CONTRACTS

**TOTAL
DIRECT COST**

PER ORIGINAL - ESCALANTE

QUANTITY

UNIT

LABOR & INSURANCE	
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DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.

OPERATION Portal Excavation, Common ITEM NO. 332-912 SHEET OF PAGE 129

ITEM NO. 332-912 SHEET OF PAGE 129

JOB Devil Canyon - Stage 2

BID QUANTITY 40.000 UNIT CY TAKE OFF QUANTITY _____ EST. BY Art Lee DATE _____

[illegible]

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.

OPERATION Portal Excavation, Rock

ITEM NO. 332.913 SHEET OF PAGE 130

JOB Devil Canyon - Stage 2

BID QUANTITY 21.000 UNIT CY TAKE OFF QUANTITY _____ EST. BY Art Lee DATE _____

[illegible]

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.

OPERATION

Tailrace Tunnel Concrete - 38" I.D.

ITEM NO. 332.919 SHEET OF PAGE 31

JOB

Devil Canyon - Stage 2

EST. BY

Art Lee

DATE

BID QUANTITY 6.730

UNIT LF

TAKE OFF QUANTITY

QUANTITY

UNIT

CONSTRUCTION
LABOR & INSURANCE

CONSTRUCTION
SUPPLIES

EQUIPMENT
REPAIR LABOR

EQUIPMENT
RENT

EQUIPMENT
SUPPLIES

PERMANENT
MATERIALS

SUB-CONTRACTS

TOTAL
DIRECT COST

PER ORIGINAL

6.730

LF

130.25915

176.35

118.036

127.5226

137.5089

4.416966

51.6717

23.28916

OPERATION Drill & Grout Consolidation

ITEM NO. 332.813 SHEET OF PAGE 122

JOB Devil Canyon - Stage 2

BID QUANTITY 1 UNIT LS TAKE OFF QUANTITY _____ EST. BY Art Lee DATE _____

[illegible]

OPERATION Drill & Grout Consolidation

ITEM NO. 332.813 SHEET OF PAGE 122

JOB Devil Canyon - Stage 2

BID QUANTITY 1 UNIT LS TAKE OFF QUANTITY _____ EST. BY Art Lee DATE _____

[illegible]

OPERATION Penstock Concrete Liner, Inclined 20'

OPERATION Penstock Concrete Liner, Inclined 20'

ITEM NO. 332.814 SHEET OF PAGE 123

JOB Devil Canyon - Stage 2

EST. BY Art Lee DATE _____

BID QUANTITY		UNIT		TAKE OFF QUANTITY		EST. BY		DATE											
		LF				Art Lee													
		QUANTITY	UNIT	CONSTRUCTION LABOR & INSURANCE		CONSTRUCTION SUPPLIES		EQUIPMENT REPAIR LABOR		EQUIPMENT RENT		EQUIPMENT SUPPLIES		PERMANENT MATERIALS		SUB-CONTRACTS		TOTAL DIRECT COST	
PER ORIGINAL ESCALATE		2530	LF	148.10	26721.55	96.42	24587.1	109.49	2791.99	183.57	2641.24	120.57	3281.09	76.44	928153	42.34		102	4826205
												</							

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.

OPERATION Steel Lined, Inclined 15' Concrete ITEM NO. 332.81B SHEET OF PAGE 17

... for

Devil Canyon - Stage 2

UNIT LE

TAKE OFF QUANTITY

EST. BY

Art Lee

DATE _____

[illegible]

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.
 OPERATION Penstock Concrete Liner, ITEM NO. 332.815 SHEET OF PAGE 125
Paul Canyon - Stage 2

OPERATION Penstock Concrete Liner, ITEM NO. 332.019 SHEET 0
Devil Canyon - Stage 2

108 Devil Canyon - Stage 2

UNIT LF

TAKE OFF QUANTITY

EST. BY

Art Lee

DATE _____

[illegible]

DIVERSIFIED ENGINEERING
OPERATION Steel Liner

Devil Canyon - Stage 2

JOB _____ DATE _____
EST. BY Art Lee

BID QUANTITY 2,000

UNIT Tn

TAKE OFF QUANTITY

QUANTITY

UNIT

CONSTRUCTION
LABOR & INSURANCE

**CONSTRUCTION
SUPPLIES**

**EQUIPMENT
REPAIR LABOR**

**EQUIPMENT
RENT**

EQUIPMENT
SUPPLIES

**PERMANENT
MATERIALS**

SUB-CONTRACTS

**TOTAL
DIRECT COST**

312 6.224000312 6.224000

PER ORIGINAL

2000 TM

TM

[illegible][illegible]

**EQUIPMENT
REPAIR LABOR**

**EQUIPMENT
RENT**

EQUIPMENT
SUPPLIES

**PERMANENT
MATERIALS**

SUB-CONTRACTS

**TOTAL
DIRECT COST**

312 6.224000312 6.224000

OPERATION Tailrace Tunnel Excavation 42'

ITEM NO. **Devil Canyon - Stage 2**

EST BY Art Lee DATE 11-1-68

BID QUANTITY 6.730

UNIT LF

TAKE OFF QUANTITY

EST. BY Art Lee DATE _____

**CONSTRUCTION
LABOR & INSURANCE**

CONSTRUCTION SUPPLIES

**EQUIPMENT
REPAIR LABOR**

**EQUIPMENT
RENT**

EQUIPMENT
SUPPLIES

PERMANENT MATERIALS

SUB-CONTRACTS

**TOTAL
DIRECT COST**

QUANTITY

UNIT

**CONSTRUCTION
LABOR & INSURANCE**

CONSTRUCTION SUPPLIES

**EQUIPMENT
REPAIR LABOR**

**EQUIPMENT
RENT**

EQUIPMENT
SUPPLIES

PERMANENT MATERIALS

SUB-CONTRACTS

**TOTAL
DIRECT COST**

PER ORIGINAL - ESCALANTE

BID QUANTITY 40.000 UNIT CY TAKE OFF QUANTITY _____ EST. BY Art Lee DATE _____

[illegible]

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.

OPERATION Portal Excavation, Rock

ITEM NO. 332.913 SHEET _____ OF _____ PAGE 130

JOB Devil Canyon - Stage 2

BID QUANTITY 21.000 UNIT CY TAKE OFF QUANTITY

EST. BY Art Lee DATE _____[illegible]

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.

OPERATION

Tailrace Tunnel Concrete - 38" I.D.

ITEM NO. 332.919 SHEET OF PAGE 31

JOB

Devil Canyon - Stage 2

EST. BY

Art Lee

DATE

BID QUANTITY 6.730

UNIT LF

TAKE OFF QUANTITY

QUANTITY

UNIT

CONSTRUCTION
LABOR & INSURANCE

CONSTRUCTION
SUPPLIES

EQUIPMENT
REPAIR LABOR

EQUIPMENT
RENT

EQUIPMENT
SUPPLIES

PERMANENT
MATERIALS

SUB-CONTRACTS

TOTAL
DIRECT COST

PER ORIGINAL

6.730

LF

130.25915

176.35

118.036

127.5226

1375.089

4.416866

51.6717

23.28916

OPERATION Drill & Grout Consolidation

ITEM NO. 332.813 SHEET OF PAGE 122

JOB Devil Canyon - Stage 2

BID QUANTITY 1 UNIT LS TAKE OFF QUANTITY _____ EST. BY Art Lee DATE _____

[illegible]

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.

OPERATION Penstock Concrete Liner, Inclined 20'

ITEM NO. 332.814 SHEET OF PAGE 123

JOB Devil Canyon - Stage 2

BID QUANTITY 2.550 UNIT LF TAKE OFF QUANTITY

EST. BY Art Lee DATE _____[illegible]

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.

OPERATION Penstock Concrete Liner, Inclined 20'

ITEM NO. 332.814 SHEET OF PAGE 123

JOB Devil Canyon - Stage 2

BID QUANTITY 2.550 UNIT LF TAKE OFF QUANTITY

EST. BY Art Lee DATE _____

[illegible]

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.

OPERATION Steel Lined, Inclined 15' Concrete ITEM NO. 332.81B SHEET OF PAGE 17

JOE

Devil Canyon - Stage 2

UNIT LE

TAKE OFF QUANTITY

EST. BY

Art Lee

DATE _____

[illegible]

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.
 OPERATION Penstock Concrete Liner, ITEM NO. 332.815 SHEET OF PAGE 125

OPERATION Penstock Concrete Liner, ITEM NO. 5517-10 SHEET 1
Devil Canyon - Stage 2

108 Devil Canyon - Stage 2

UNIT LF

TAKE OFF QUANTITY

EST. BY

Art Lee

DATE _____

Horizontal 15' I.D.				JOB		Devil Canyon - Stage 1		EST. BY		Art Lee		DATE				
BID QUANTITY	950	UNIT	LF	TAKE OFF QUANTITY	QUANTITY	UNIT	CONSTRUCTION LABOR & INSURANCE	CONSTRUCTION SUPPLIES	EQUIPMENT REPAIR LABOR	EQUIPMENT RENT	EQUIPMENT SUPPLIES	PERMANENT MATERIALS	SUB-CONTRACTS	TOTAL DIRECT COST		
PER ORIGINAL - ESCALATE	950	LF	85.4	809.007	72.75		75734	96.45	91314	89.87	84997	11.20	104381	33.4742	1123	1542126
															</	

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC. ITEM NO. 332-911 SHEET OF PAGE 129
 OPERATION Tailrace Tunnel Excavation 42' JOB Devil Canyon - Stage 2

OPERATION Tailrace Tunnel East JOB Devil Canyon - Stage 1

EST. BY Art Lee DATE

6.730 UNIT LF TAKE OFF QUANTITY

[illegible]

BID QUANTITY 40.000 UNIT CY TAKE OFF QUANTITY _____ EST. BY Arl Lee DATE _____

[illegible]

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.

OPERATION Portal Excavation, Rock

ITEM NO. 332.913 SHEET _____ OF _____ PAGE 130

JOB Devil Canyon - Stage 2

BID QUANTITY 21.000 UNIT CY TAKE OFF QUANTITY

EST. BY Art Lee DATE _____[illegible]

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.
OPERATION Tailrace Tunnel Concrete - 38' I.D.

ITEM NO. 332.914 SHEET OF PAGE 131

OPERATION Tailrace Tunnel Concrete - 38' I.D.

108 Devil Canyon - Stage 2

EST. BY Art Lee DATE _____

BID QUANTITY 6.730 UNIT LF TAKE OFF QUANTITY 6.730

BID QUANTITY		UNIT	TAKE OFF QUANTITY		EST. BY	DATE										
6.730		LF			Art Lee											
QUANTITY	UNIT	CONSTRUCTION LABOR & INSURANCE	CONSTRUCTION SUPPLIES	EQUIPMENT REPAIR LABOR	EQUIPMENT RENT	EQUIPMENT SUPPLIES	PERMANENT MATERIALS	SUB-CONTRACTS	TOTAL DIRECT COST							
6.730	LF	13025915	176351	1180836	17748	1347299	1275046	1875089	416866	56777	2338968					
PER ORIGINAL																

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.

OPERATION Portal Concrete

ITEM NO. 332.91A SHEET OF PAGE 32

JOB Devil Canyon - Stage 2

EST. BY Art Lee DATE

BID QUANTITY 750 UNIT CY TAKE OFF QUANTITY

[illegible]

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.

OPERATION Portal Concrete

ITEM NO. 332.91A SHEET OF PAGE 32

JOB Devil Canyon - Stage 2

EST. BY Art Lee DATE _____

BID QUANTITY 750 UNIT CY TAKE OFF QUANTITY

[illegible]

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.
OPERATION Portal Rockbolts 1" x 15'

ITEM NO. 332-915 SHEET OF PAGE 133

JOB Devil Canyon - Stage 2

EST. BY Art Lee DATE _____

BID QUANTITY 100 UNIT Ea TAKE OFF QUANTITY 100

[illegible]

0 0 3 5 6 7

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.
OPERATION Tailrace Stoplogs, Guides & Followers

ITEM NO. 332.91C SHEET OF PAGE 134

OPERATION Tailrace Stoplogs, Culverts & Conduits

08 Devil anyon - Stage 2

BID QUANTITY 1 UNIT LS TAKE OFF QUANTITY _____ EST. BY Art Lee DATE _____
CONSTRUCTION

BID QUANTITY 1 UNIT LS TAKE OFF QUANTITY

BID QUANTITY		UNIT		TAKE OFF QUANTITY		EST. BY		DATE		CONSTRUCTION LABOR & INSURANCE		CONSTRUCTION SUPPLIES		EQUIPMENT REPAIR LABOR		EQUIPMENT RENT		EQUIPMENT SUPPLIES		PERMANENT MATERIALS		SUB-CONTRACTS		TOTAL DIRECT COST	
1		LS				Art Lee																			
PER ORIGINAL		1 LS																				LS 1577.50		L.S. 1577.50	

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.
 OPERATION Waterwheels, Turbines & Generators ITEM NO. 333-11 SHEET OF PAGE 135
Devil Canyon - Stage 2

ITEM NO. 333.11 SHEET OF PAGE 130

JOB Devil Canyon - Stage 4

BID QUANTITY 4 UNIT Ea TAKE OFF QUANTITY _____ EST. BY APL/LEE DATE _____

Turbines & Governors			EST. BY <u>Art Lee</u> DATE _____		EQUIPMENT REPAIR LABOR		EQUIPMENT RENT		EQUIPMENT SUPPLIES		PERMANENT MATERIALS		SUB-CONTRACTS		TOTAL DIRECT COST:	
BID QUANTITY	UNIT	TAKE OFF QUANTITY	QUANTITY	UNIT	CONSTRUCTION LABOR & INSURANCE	CONSTRUCTION SUPPLIES	EQUIPMENT REPAIR LABOR	EQUIPMENT RENT	EQUIPMENT SUPPLIES	PERMANENT MATERIALS	SUB-CONTRACTS	TOTAL DIRECT COST:				
9	Ea		4	Ea												
PER ORIGINAL																

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.

OPERATION Generators & Exciters

ITEM NO. 333.21

- SHEET _____ OF ____ . PAGE 136

JOB Devil Canyon - Stage 2

BID QUANTITY

UNIT End

TAKE OFF QUANTITY

EST BY

Art Lee

DATE _____

[illegible]

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.
Accessory Electrical Equipment

ITEM NO. 339 SHEET OF PAGE 237
 JOB Devil Canyon - Stage 2 DATE
 EST. BY Art Lee

BID QUANTITY 1 UNIT LS TAKE OFF QUANTITY

QUANTITY	UNIT	CONSTRUCTION LABOR & INSURANCE	CONSTRUCTION SUPPLIES	EQUIPMENT REPAIR LABOR	EQUIPMENT RENT	EQUIPMENT SUPPLIES	PERMANENT MATERIALS	SUB-CONTRACTS	TOTAL DIRECT COST
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PER ORIGINAL

1 LS.

LS 23352000 LS 23352000

OPERATION Miscellaneous Power Plant Equipment

ITEM NO. 335

- SHEET

— ON

PAGE

138

— JOB

Devil Canyon - Stage 2

EST. BY Art Lee

DATE _____

[illegible]

OPERATION Permanent Access Roads

ITEM NO. 336.11 SHEET OF PAGE 139

Joe Devil Canyon - Stage 2

BID QUANTITY 1 UNIT LS TAKE OFF QUANTITY _____ EST. BY Art Lee DATE _____

[illegible]

OPERATION Silt Roads

ITEM NO. 336.12 SHEET OF PAGE 146

INR Devil Canyon - Stage 2

BID QUANTITY 7 UNIT Mi TAKE OFF QUANTITY _____ EST. BY Art Lee DATE _____

[illegible]

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.
OPERATION Permanent Roads

ITEM NO. 336.13 SHEET OF PAGE 141
JOB Devil Canyon - Stage 2
EST. BY Art Lee DATE

JOB Devil City
EST BY Art Lee DATE

BID QUANTITY 3 UNIT MI TAKE OFF QUANTITY

QUANTITY	UNIT
----------	------

**CONSTRUCTION
- BOB & INSURANCE**

**CONSTRUCTION
SUPPLIES**

**EQUIPMENT
REPAIR LABOR**

EQUIPMENT
RENT

EQUIPMENT
SUPPLIES

PERMANENT MATERIALS

SUB-CONTRACTS

**TOTAL
DIRECT COST**

120000

12000000

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.

OPERATION Road Maintenance - Cantwell to Watana

ITEM NO. 336.14

- SHEET ____ OF ____ PAGE 142

JOB Devil Canyon - Stage 2

BIO QUANTITY 650

UNIT M-Yr**TAKE OFF QUANTITY**

EST. BY Art Lee

DATE _____

[illegible]

OPERATION Rail Facilities

OPERATION

ITEM NO. 336.2

→ SHEET

OF

PAGE 143

JOB

Devil Canyon - Stage 2

* BID QUANTITY

1

UNIT

LS

TAKE OFF QUANTITY

EST BY

Art Lee

DATE _____

[illegible]

OPERATION General Plant

ITEM NO. 399

- SHEET ____ OF ____

PAGE

BID QUANTITY

UNIT LS

TAKE OFF QUANTITY

EST. BY

DATE _____

[illegible]

OPERATION Construction Camps & Permanent

OPERATION Construction Camps & Permanent

ITEM NO. 63.1 - .5 SHEET OF PAGE 146

Village

JOB Devil Canyon - Stage 2

BID QUANTITY 1 UNIT LS TAKE OFF QUANTITY _____ EST. BY Art Lee DATE _____

[illegible]

OPERATION Catering & Support

ITEM NO. 63.6 SHEET _____ OF _____ PAGE 147

JOB Devil Canyon - Stage 2

BID QUANTITY 1,059,290 UNIT MD TAKE OFF QUANTITY _____ EST BY Art Lee DATE _____

[illegible]

OPERATION Electric Power - 34.5 KV System

OPERATION Electric Power - 34.5 KV System

ITEM NO. 63.71

— SHEET — OF —

PAGE 148

JCB

Devil Canyon - Stage 2

BID QUANTITY 1

UNIT LS

TAKE OFF QUANTITY

EST. BY Art Loo

DATE _____

		TAKE OFF QUANTITY	EST. BY	DATE											
		QUANTITY	UNIT	CONSTRUCTION LABOR & INSURANCE	CONSTRUCTION SUPPLIES	EQUIPMENT REPAIR LABOR	EQUIPMENT RENT	EQUIPMENT SUPPLIES	PERMANENT MATERIALS	SUB-CONTRACTS	TOTAL DIRECT COST				
<i>PER ORIGINAL</i>		<i>1</i>	<i>LS.</i>												
										<i>LS</i>	<i>1800000</i>	<i>LS</i>	<i>1800000</i>		

OPERATION Camp Power

OPERATION Camp Power ITEM NO. 63.72 SHEET OF PAGE 149

ITEM NO. 63.72 SHEET OF PAGE 149

JOB Devil Canyon - Stage 2

BID QUANTITY 140.300 UNIT MWH TAKE OFF QUANTITY _____ EST. BY Art Lee DATE _____

EST. BY Art Lee DATE _____[illegible]

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.

OPERATION Construction Power

ITEM NO. 63.72

SHEET

OF

PAGE

160

JOB

Devil Canyon - Stage 2

BID QUANTITY

50,000

UNIT

MWH

TAKE OFF QUANTITY

EST. BY

Art Lee

DATE

QUANTITY

UNIT

CONSTRUCTION
LABOR & INSURANCE

CONSTRUCTION
SUPPLIES

EQUIPMENT
REPAIR LABOR

EQUIPMENT
RENT

EQUIPMENT
SUPPLIES

PERMANENT
MATERIALS

SUB-CONTRACTS

TOTAL
DIRECT COST

VU DIRECTS

0 0 3 5 6 7

OPERATION Construction Heating & Ventilating ITEM NO. 63.81 SHEET OF PAGE 151
Plant JOB Devil Canyon - Stage 2
 BID QUANTITY 1 UNIT LS TAKE OFF QUANTITY EST. BY Art Lee DATE

OPERATION Construction Heating & Ventilating ITEM NO. 63.81 SHEET 151 OF 151
Plant JOB Devil Canyon - Stage 2
 BID QUANTITY 1 UNIT LS TAKE OFF QUANTITY _____ EST. BY Art Lee DATE _____

BID QUANTITY 1 UNIT LS TAKE OFF QUANTITY _____ EST. BY Art Lee DATE _____

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DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.

OPERATION Operation

ITEM NO. 63.82 SHEET OF PAGE 152

JOB Devil Canyon - Stage 2

BID QUANTITY 1,870 UNIT Days TAKE OFF QUANTITY _____ EST. BY Art Lee DATE _____

[illegible]

OPERATION Mitigation ITEM NO. 68 SHEET OF PAGE 153
JOB Devil Canyon - Stage 2
BID QUANTITY 1 UNIT LS TAKE OFF QUANTITY EST. BY Art Lee DATE

JOB Devil Canyon - Stage 2

BID QUANTITY 1 UNIT LS TAKE OFF QUANTITY _____ EST. BY Art Lee DATE _____

[illegible]



IDENTIFICATION

DIVERSIFIED CONSTRUCTORS
 JOB: SANITARY - MARTINEZ & DAVIS CAN CAN NO. 1-20 SHEET OF PAGE
 LABOR: M. D. MECHANIC 24.30 PER HR. SUPPLIES: DIESEL FUEL 1.20 PER GAL. DATE
 MECH. HELPER 12.15 PER HR. GASOLINE 1.20 PER GAL.
 P. R. TAX & INS. 10 % 42.87 BUTANE PER GAL.
 OVERTIME 10 % 42.87 ELECT. POWER PER KWH. BY A. LEE

TYPE OF EQUIPMENT	CRANE 145	CRANE 50T	CRANE 100T	CRANE 150T	DOZING 176CY	DOZING 240CY	DOZING 300CY	DOZING 360CY	DOZING 420CY	DOZING 480CY	DOZING 540CY	DOZING 600CY	DOZING 660CY	DOZING 720CY	DOZING 780CY	DOZING 840CY
Model or Capacity	145	50T	100T	150T	176CY	240CY	300CY	360CY	420CY	480CY	540CY	600CY	660CY	720CY	780CY	840CY
Horsepower	3.4	7.7	9.9	11.9	12.9	21.5	3.0	7.8	12.4	20.9	2.3	6.0	8.4	10.0	27.3	
Fuel or Power Consumption per hr.																
New Cost																
Shipping Weight																
OPERATION HOURS	This Period															
Repair	M.H./Hour	0.39	0.36	0.63	0.75	0.75	1.0	0.35	0.40	0.75	1.0	0.37	0.34	0.55	0.65	0.75
LABOR COST	Operator															
Oil																
Repair & Service		16.71	15.43	27.00	32.15	32.15	42.87	15.00	17.14	32.15	42.87	15.86	14.57	23.57	29.57	32.15
Total																
RENTAL OR DEPRECIATION	New	11.19	17.00	25.00	42.77	17.50	29.09	5.43	17.80	33.00	75.00	12.93	9.62	10.37	31.50	60.00
Used																
Cost Per Hour																
SUPPLIES & EXPENSE	Fuel or Power	7.56	10.78	13.86	16.66	18.06	30.10	4.20	10.92	17.56	29.26	8.82	8.40	11.76	14.00	38.22
Oil & Grease		1.36	1.94	2.49	3.00	2.17	3.61	0.63	1.62	2.60	4.39	1.52	1.26	1.76	2.10	5.23
Repair Parts		6.82	9.63	9.24	14.81	11.17	17.69	3.42	11.20	19.06	32.17	7.89	3.23	3.30	12.00	22.80
Cable & Teeth																
Tires & Tubes		1.06	1.22	1.87	1.87			0.52	2.89	6.84	11.65	1.48	1.30	1.94	4.31	8.19
Outside Repairs																
Shop Costs																
Total		15.80	28.57	27.46	36.34	31.40	51.40	8.57	26.63	46.85	72.37	19.51	14.19	18.76	32.41	74.94

TOTAL HOURLY COST

TYPE OF EQUIPMENT	WATER TRUCK 500G	WATER TRUCK 1000G	LO. BOY W/TRACTOR 100T	FLAT BED 5T	PICKUP 3/4T	SERVICE TRUCK	COMPRESSOR 150CFM	COMPRESSOR 200CFM	COMPRESSOR 300CFM	COMPRESSOR 400CFM	WELDER 300 AMP	TRACTOR W/DOZER 07	TRACTOR W/DOZER 08	TRACTOR W/DOZER 09	TRACTOR W/DOZER 10	TRACTOR W/DOZER 11
Model or Capacity	500G	1000G	100T	5T	3/4T		150CFM	200CFM	300CFM	400CFM	300 AMP	W/DOZER 07	W/DOZER 08	W/DOZER 09	W/DOZER 10	W/DOZER 11
Horsepower	7.2	13.2	5.6	5.6	3.3	4.4	4.3	7.4	15.6	7.4	3.7	8.2	12.3	16.8	12.4	
Fuel or Power Consumption per hr.																
New Cost																
Shipping Weight																
OPERATION HOURS	This Period															
Repair	M.H./Hour	0.30	0.61	0.35	0.10	0.06	0.08	0.12	0.28	0.44	0.15	0.05	0.60	1.0	1.20	0.32
LABOR COST	Operator															
Oil																
Repair & Service		12.86	24.15	15.00	4.28	2.57	3.42	5.14	12.00	18.86	6.43	2.14	26.72	42.87	51.44	19.71
Total																
RENTAL OR DEPRECIATION	New	6.30	30.00	11.00	4.17	0.97	4.92	1.86	6.61	11.07	9.81	0.81	17.23	25.91	47.50	9.37
Used																
Cost Per Hour																
SUPPLIES & EXPENSE	Fuel or Power	10.08	18.48	7.84	7.84	4.62	6.16	6.02	10.36	21.04	10.36	6.18	11.48	17.22	23.52	18.76
Oil & Grease		1.51	2.77	1.18	0.94	0.55	0.92	0.72	1.55	3.28	1.24	0.52	1.15	1.72	2.35	2.81
Repair Parts		2.50	4.69	2.77	1.92	0.44	2.43	1.02	3.04	4.19	4.24	0.68	9.94	17.91	20.37	4.32
Cable & Teeth																
Tires & Tubes		3.82	7.01	2.28	0.34	0.10	0.11				0.75	0.04				0.12
Outside Repairs																
Shop Costs																
Total		17.91	32.85	14.87	11.04	5.71	9.62	7.81	14.95	29.29	17.29	6.42	22.57	33.85	46.24	24.01

TOTAL HOURLY COST

DIVERSIFIED CONSTRUCTORS

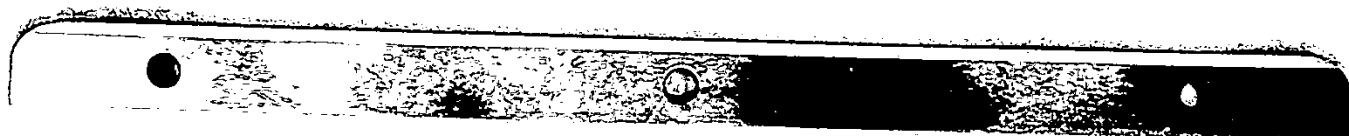
HOURLY EQUIPMENT OPERATING COSTS

JOB: _____ CONT. NO. _____ SHEET _____ OF _____ PAGE _____
 LABOR: M. D. MECHANIC _____ PER HR. _____ SUPPLIES: DIESEL FUEL _____ PER GAL. _____
 MECH. HELPER _____ PER HR. _____ GASOLINE _____ PER GAL. _____ DATE _____
 P. R. TAX & INS. _____ % _____ BUTANE _____ PER GAL. _____
 OVERTIME _____ % _____ ELECT. POWER _____ PER KW-HR. _____

TYPE OF EQUIPMENT	Model or Capacity	GENERATOR	GENERATOR	TRUCK	WATER PUMP	WATER PUMP	WATER PUMP	BATCH PLANT	AGGREGATE PLANT	JUNCO 2 DALL JRY	JUNCO 3 DALL JRY	JUNCO 4 DALL JRY	FANS "AIR"	ALLMAN RD166
Model or Capacity		300 KW	400 KW	100 KW	8"	4"	2"							
Horsepower				100 KW										
Fuel or Power Consumption per hr.		16.3	18.0	8.4	2.6	1.9	0.91							
New Cost														
Shipping Weight														
OPERATION HOURS	This Period To Date													
REPAIR M.H./HOUR		0.44	0.82	0.34	0.87	0.75	0.16	0.11	0.06	0.70	1.20	0.81	1.27	1.28
LABOR COST	Operator													
	Other													
	Repair & Service	18.86	35.15	14.57	15.86	32.15	6.85	4.71	2.57	30.00	51.54	34.72	54.44	54.81
	Total													
RENTAL OR DEPRECIATION	New	2.78	12.32	54.53	12.32	8.22	0.59	0.80	0.27	28.01	22.03	11.79	48.00	53.66
	Used													
	Cost Per Hour													
SUPPLIES & EXPENSE	Fuel or Power	22.82	25.20	6.36	11.76	3.92	2.66	1.27						
	Oil & Grease	3.42	5.78	1.34	1.76	0.92	0.59	0.40	2.51	1.42				
	Repair Parts	0.87	3.16	13.72	11.31	9.93	1.16	0.79	8.48	13.75				
	Cable & Teeth									13.40				
	Tires & Tubes				0.32									
	Outside Repairs													
	Shop Costs													
	Total	27.11	32.14	21.42	25.15	10.85	5.67	3.85	1.83	10.99	28.57	8.55	42.02	46.66
TOTAL HOURLY COST														
TYPE OF EQUIPMENT	Model or Capacity	SHOTBLASTING PUMP	STAMPING	SCAMP	SCAMP									
Model or Capacity		1000 GPM	1000 GPM	ST-12	ST-4A									
Horsepower														
Fuel or Power Consumption per hr.														
New Cost														
Shipping Weight														
OPERATION HOURS	This Period To Date													
REPAIR M.H./HOUR		0.63	0.09	0.75	0.47									
LABOR COST	Operator													
	Other													
	Repair & Service	27.00	3.85	32.15	20.14									
	Total													
RENTAL OR DEPRECIATION	New	7.51	0.46	38.00	16.02									
	Used													
	Cost Per Hour													
SUPPLIES & EXPENSE	Fuel or Power													
	Oil & Grease													
	Repair Parts													
	Cable & Teeth													
	Tires & Tubes													
	Outside Repairs													
	Shop Costs													
	Total	9.77	1.27	38.93	21.05									
TOTAL HOURLY COST														

*Water Cost to be included under Labor Excludes the cost of water used in the operation of the equipment, or when used in the operation of the equipment, or when used in the operation of the equipment.

0 0 3 5 6 7



LABOR WERS

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.

WAGE RATES FOR ESTIMATE

Page

Sheet

Date

1 of 10

Project SUSITNA - KATANA & DEVILS CANYON DAMS

TAXES & INSURANCE AT 27.55%

Classification		Rate					USE
		Current to 6-30-85					
LABORERS		BASE	FRONT	TOTAL		PRICE	
General:	Common	20.34	6.50	5.60		0.50	32.94
	Air Tool Operator	21.08	"	5.80		0.51	32.39
	Dumpmen	20.34	"	5.60		0.50	32.94
	Pipelayer - Metallic Culy.	21.34	"	5.87		0.52	32.73
	Non - Metal.	21.34	"	5.87		0.52	32.73
Concrete:	Concrete Laborer	20.68	6.11	5.69		0.50	32.97
	Vibrator Operator	21.08	"	5.80		0.51	32.39
	Sandblaster	21.08	"	5.80		0.51	32.39
	Gunite - Nozzleman	21.08	"	5.80		0.51	32.39
	Gun tender	20.34	"	5.60		0.50	32.94
Rockwork:	High scaler	21.60	"	5.95		0.52	32.57
	Jackhammer	21.08	"	5.80		0.51	32.39
	Wagon Drill	21.60	"	5.95		0.52	32.57
	Chuck Tender	21.08	"	5.80		0.51	32.39
	Diamond Drill						
	Powder Foreman	23.15	"	6.37		0.55	34.57
	Powderman	21.90	"	6.03		0.53	34.96
	Powderman Helper	21.08	"	5.80		0.51	32.39
	Riprapmen-Hand Placed	20.34	"	5.60		0.50	32.94
Under Ground: (Free Air)							
	Shifter	24.76	"	6.82		0.59	32.67
	Powderman	24.09	"	6.63		0.57	32.79
	Miner - Mucker	22.74	"	6.26		0.55	32.65
	Driller	23.76	"	6.54		0.57	32.37
	Chuck Tender	23.18	"	6.38		0.55	32.61
	Timberman	23.18	"	6.38		0.55	32.61

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.
WAGE RATES FOR ESTIMATE

Page _____
 Sheet 2 of 10
 Date _____

Project _____

Classification	Rate					
	Current to 6-30-85	FRANK J. JONES, INC.			PER HOUR	PER DAY
Foreman	22.34	6.50	6.15		0.54	22.55
Health & Welfare	2.10					
Pension	4.00					
Vacation						
Industry Advancement	0.25					
Apprenticeship	0.20					
LEARN	0.15					
Travel Time						
Subsistence						
	6-30-86					
OPERATING ENGINEERS						
Tractor-Crawler W/Attachments- Over 50HP.	24.47	6.55	6.74		0.58	32.34
- Rubber Tired W/Attachments-						
- Earth Mover	24.47	"	6.74		0.58	32.34
- Farm Type	23.17	"	6.38		0.55	31.66
CRANES, ETC:						
Cable Way	26.01	"	7.16		0.61	40.83
Whirley Crane						
Truck Crane-Under 100T	24.47	"	6.74		0.58	32.34
Truck Crane-Over 100T	26.01	"	7.16		0.61	40.83
R. T. Crane	24.47	"	6.74		0.58	32.34
Overshot Loader						
Hoist-Single Drum						
Hoist-2 or More Drums						
Power Shovel or Dragline	26.01	"	7.16		0.61	40.83

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.
WAGE RATES FOR ESTIMATE

Page _____
 Sheet 1 of 10
 Date _____

Project _____

Classification	Rate					
	current to- 6-30-86	PRIMERS	TRENCHING		OTHER	40%
Motor Grader-No. 12 & Under	24.47	6.55	6.74		0.58	39.31
Motor Grader-Over No. 12	24.47	"	6.74		0.58	39.31
Smooth Roller-Finish Work	26.01	"	7.16		0.61	40.21
-Other Work	23.17	"	6.38		0.55	36.65
Elevating Grader	23.17	"	6.38		0.55	36.65
Trenching Machine	23.80	"	6.55		0.57	37.47
Crushing Plant	24.47	"	6.74		0.58	39.31
Blower Operator-Cement						
Concrete Batch & Mix	24.47	"	6.74		0.58	39.31
Front End Loader-Under 5 CY	24.47	"	6.74		0.58	39.31
-Over 5 CY	26.01	"	7.16		0.61	40.21
Refrigeration Plant						
Conveyor Operator						
Air Compressor-Portable	23.80	"	6.55		0.57	37.47
-Stationary						
-Two or More						
Water Pump						
Pumpcrete or Grout Pump	24.47	"	6.74		0.58	39.31
Churn Drill or Diamond Drill						
H.D. Mechanic or Welder	24.47	"	6.87		0.59	39.91
Oiler	23.17	"	6.38		0.55	36.65
Fireman						
Dinky Locomotive	23.80	"	6.55		0.57	37.47
Mucking Machine-Under Grnd.	26.91	"	7.41		0.63	41.56
Foreman	27.51	"	7.57		0.64	42.21
Health & Welfare	2.35					
Pension	4.00					
Vacation						
Industry Advancement	0.05					

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.

WAGE RATES FOR ESTIMATE

Page _____
Sheet 4 of 10
Date _____

Project _____

Classification	Rate					
	current to					USE
	6-30-86					
Apprenticeship	0.15					
Travel Time						
Substance						
	1-30-85	FRIGES	TRUCKS		REWARD	
TEAMSTERS						
Pickups & Flatracks to 3/4 T	21.61	7.69	5.95	0.54	35.79	
Flatracks "S" AXLE T to T	21.61	"	5.95	0.54	35.79	
"D" AXLE T to T	22.32	"	6.14	0.56	36.71	
T to T						
T to T						
Over T						
Dump Trucks to 10 CY T	22.32	"	6.14	0.56	36.71	
10 CY to 20 CY	22.76	"	6.27	0.56	37.28	
20 CY to 40 CY	23.46	"	6.46	0.58	38.17	
40 CY to 60 CY	24.51	"	6.75	0.60	39.55	
60 Over 100 CY	25.56	"	7.04	0.62	40.71	
Bottom Dump to 10 CY	22.32	"	6.14	0.56	36.71	
10 CY to 20 CY	22.76	"	6.27	0.56	37.28	
20 CY to 40 CY	23.46	"	6.46	0.58	38.17	
40 CY to 60 CY	24.51	"	6.75	0.60	39.55	
60 Over 100 CY	25.56	"	7.04	0.62	40.71	
Water Truck "S" AXLE to Gal.	21.61	"	5.95	0.54	35.79	
"D" AXLE Over Gal.	22.32	"	6.14	0.56	36.71	
Transit Mix Trucks to 7 CY	22.76	"	6.27	0.56	37.28	
To Over 12 CY	23.46	"	6.46	0.58	38.17	
Oil Distributor Truck	22.76	"	6.27	0.56	37.28	
A-Frame & Cherry Picker	21.61	"	5.95	0.54	35.79	
Semi-Truck & Trailer	22.76	"	6.27	0.56	37.28	

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.
WAGE RATES FOR ESTIMATE

Page
Sheet 5 of 10
Date

Project

Classification	Rate					
	Current to- 6-30-85	FRINGES	Taxes	Ins	REHIRE	USA
Lowboy	24.51	7.69	6.75		0.60	39.55
Concrete Haul	-					
Warehouseman	21.61	"	5.95		0.54	35.79
Foreman	25.51	"	7.02		0.62	46.84
Health & Welfare	2.59					
Pension	4.10					
Vacation (SERVICE CORP.)	0.45					
Industry Advancement	0.05					
Apprenticeship	0.30					
LEGAL	0.20					
Travel Time						
Subsistence						
	6.30-85					
CARPENTERS:						
Journeyman	23.95	5.05	6.89		0.55	36.44
Foreman	26.94	5.05	7.42		0.61	40.02
Health & Welfare	1.65					
Pension	3.00					
Vacation						
Industry Advancement	0.05					
Apprenticeship	0.35					
Travel Time						
Subsistence						
MILLWRIGHTS:						
Journeyman	24.65	5.05	6.79		0.56	37.05

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.
WAGE RATES FOR ESTIMATE

Page _____
 Sheet 6 of 10
 Date _____

Project _____

Classification	Rate					
	Current to 6-30-85	FRMERS	TAXES		REHIRE	USA
Foreman	27.73	5.05	7.63		0.62	41.03
Health & Welfare	1.65					
Pension	3.00					
Vacation	-					
Industry Advancement	0.05					
Apprenticeship	0.35					
Travel Time						
Subsistence						
	631.84					
PILE DRIVERS:						
Journeyman	23.38	6.15	6.44		0.55	36.52
Foreman	26.30	6.15	7.24		0.61	40.30
Health & Welfare	1.40					
Pension	4.50					
Vacation	-					
Industry Advancement	0.05					
Apprenticeship	0.20					
Travel Time						
Subsistence						
CEMENT FINISHERS:						
Journeyman	22.26	6.50	6.13		0.54	35.43
Foreman	24.48	6.50	6.74		0.58	38.30
Health & Welfare	2.10					
Pension	4.10					

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.

WAGE RATES FOR ESTIMATE

Page

Sheet

Date

1 of 10

Project SUSITNA - KATANA & DEVILS CANYON DAMS

TAXES & INSURANCE AT 27.55%

Classification	Rate					USE
	Current to 6-30-85					
LABORERS	BASE	FOUR	TOTALS		ANNUAL	
General: Common	20.34	6.50	5.60		0.50	32.94
Air Tool Operator	21.08	"	5.80		0.51	33.39
Dumpmen	20.34	"	5.60		0.50	32.94
Pipelayer - Metallic Culy.	21.34	"	5.87		0.52	34.73
Non - Metal.	21.34	"	5.87		0.52	34.73
Concrete: Concrete Laborer	20.68	6.11	5.69		0.50	33.38
Vibrator Operator	21.08	"	5.80		0.51	33.39
Sandblaster	21.08	"	5.80		0.51	33.39
Gunite - Nozzleman	21.08	"	5.80		0.51	33.39
Gun tender	20.34	"	5.60		0.50	32.94
Rockwork: High scaler	21.60	"	5.85		0.52	34.57
Jackhammer	21.08	"	5.80		0.51	33.39
Wagon Drill	21.60	"	5.85		0.52	34.57
Chuck Tender	21.08	"	5.80		0.51	33.39
Diamond Drill						
Powder Foreman	23.15	"	6.37		0.55	36.57
Powderman	21.90	"	6.03		0.53	34.96
Powderman Helper	21.08	"	5.80		0.51	33.39
Riprapmen-Hand Placed	20.34	"	5.60		0.50	32.94
Under Ground: (Free Air)						
Shifter	24.76	"	6.82		0.59	38.67
Powderman	24.09	"	6.63		0.57	37.79
Miner - Mucker	22.74	"	6.26		0.55	36.05
Driller	23.76	"	6.54		0.57	37.37
Chuck Tender	23.18	"	6.38		0.55	36.61
Timberman	23.18	"	6.38		0.55	36.61

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.
WAGE RATES FOR ESTIMATE

Page _____
 Sheet 2 of 10
 Date _____

Project _____

Classification	Rate					
	Current to 6-30-85	FRANK JAMES INC			PER HOUR	PER DAY
Foreman	22.34	6.50	6.15		0.54	22.55
Health & Welfare	2.10					
Pension	4.00					
Vacation						
Industry Advancement	0.25					
Apprenticeship	0.20					
LEARN	0.15					
Travel Time						
Subsistence						
	6-30-86					
OPERATING ENGINEERS						
Tractor-Crawler W/Attachments- Over 50HP.	24.47	6.55	6.74		0.58	32.34
- Rubber Tired W/Attachments-						
- Earth Mover	24.47	"	6.74		0.58	32.34
- Farm Type	23.17	"	6.38		0.55	31.66
CRANES, ETC:						
Cable Way	26.01	"	7.16		0.61	40.83
Whirley Crane						
Truck Crane-Under 100T	24.47	"	6.74		0.58	32.34
Truck Crane-Over 100T	26.01	"	7.16		0.61	40.83
R. T. Crane	24.47	"	6.74		0.58	32.34
Overshot Loader						
Hoist-Single Drum						
Hoist-2 or More Drums						
Power Shovel or Dragline	26.01	"	7.16		0.61	40.83

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.
WAGE RATES FOR ESTIMATE

Page _____
 Sheet 1 of 10
 Date _____

Project _____

Classification	Rate					
	current to- 6-30-86	PRIMERS	TRENCHING		OTHER	USE
Motor Grader-No. 12 & Under	24.47	6.55	6.74		0.58	39.31
Motor Grader-Over No. 12	24.47	"	6.74		0.58	39.31
Smooth Roller-Finish Work	26.01	"	7.16		0.61	40.21
-Other Work	23.17	"	6.38		0.55	36.61
Elevating Grader	23.17	"	6.38		0.55	36.61
Trenching Machine	23.80	"	6.55		0.57	37.47
Crushing Plant	24.47	"	6.74		0.58	39.31
Blower Operator-Cement						
Concrete Batch & Mix	24.47	"	6.74		0.58	39.31
Front End Loader-Under 5 CY	24.47	"	6.74		0.58	39.31
-Over 5 CY	26.01	"	7.16		0.61	40.21
Refrigeration Plant						
Conveyor Operator						
Air Compressor-Portable	23.80	"	6.55		0.57	37.47
-Stationary						
-Two or More						
Water Pump						
Pumpcrete or Grout Pump	24.47	"	6.74		0.58	39.31
Churn Drill or Diamond Drill						
H.D. Mechanic or Welder	24.47	"	6.87		0.59	39.91
Oiler	23.17	"	6.38		0.55	36.61
Fireman						
Dinky Locomotive	23.80	"	6.55		0.57	37.47
Mucking Machine-Under Grnd.	26.91	"	7.41		0.63	41.56
Foreman	27.51	"	7.57		0.64	42.21
Health & Welfare	2.35					
Pension	4.00					
Vacation						
Industry Advancement	0.05					

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.

WAGE RATES FOR ESTIMATE

Page _____
Sheet 4 of 10
Date _____

Project _____

Classification	Rate					
	current to					USE
	6-30-86					
Apprenticeship	0.15					
Travel Time						
Substance						
	1-30-85	FRANCHISE TAXES			REWARD	
TEAMSTERS						
Pickups & Flatracks to 3/4 T	21.61	7.69	5.95		0.54	35.79
Flatracks 5' AXLE T to T	21.61	"	5.95		0.54	35.79
"D" AXLE T to T	22.32	"	6.14		0.56	36.71
T to T						
T to T						
Over T						
Dump Trucks to 10 CY T	22.32	"	6.14		0.56	36.71
10 CY to 20 CY	22.76	"	6.27		0.56	37.28
20 CY to 40 CY	23.46	"	6.46		0.58	38.17
40 CY to 60 CY	24.51	"	6.75		0.60	39.55
60 Over 100 CY	25.56	"	7.04		0.62	40.71
Bottom Dump to 10 CY	22.32	"	6.14		0.56	36.71
10 CY to 20 CY	22.76	"	6.27		0.56	37.28
20 CY to 40 CY	23.46	"	6.46		0.58	38.17
40 CY to 60 CY	24.51	"	6.75		0.60	39.55
60 Over 100 CY	25.56	"	7.04		0.62	40.71
Water Truck 5' AXLE to Gal.	21.61	"	5.95		0.54	35.79
"D" AXLE Over Gal.	22.32	"	6.14		0.56	36.71
Transit Mix Trucks to 7 CY	22.76	"	6.27		0.56	37.28
To Over 12 CY	23.46	"	6.46		0.58	38.17
Oil Distributor Truck	22.76	"	6.27		0.56	37.28
A-Frame & Cherry Picker	21.61	"	5.95		0.54	35.79
Semi-Truck & Trailer	22.76	"	6.27		0.56	37.28

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.
WAGE RATES FOR ESTIMATE

Page
Sheet 5 of 10
Date

Project

Classification	Rate					
	Current to- 6-30-85	FRINGES	Taxes	Ins	REHIRE	USA
Lowboy	24.51	7.69	6.75		0.60	39.55
Concrete Haul	-					
Warehouseman	21.61	"	5.95		0.54	35.79
Foreman	25.51	"	7.02		0.62	46.84
Health & Welfare	2.59					
Pension	4.10					
Vacation (SERVICE CORP.)	0.45					
Industry Advancement	0.05					
Apprenticeship	0.30					
LEGAL	0.20					
Travel Time						
Subsistence						
	6.30-85					
CARPENTERS:						
Journeyman	23.95	5.05	6.89		0.55	36.44
Foreman	26.94	5.05	7.42		0.61	40.02
Health & Welfare	1.65					
Pension	3.00					
Vacation						
Industry Advancement	0.05					
Apprenticeship	0.35					
Travel Time						
Subsistence						
MILLWRIGHTS:						
Journeyman	24.65	5.05	6.79		0.56	37.05

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.
WAGE RATES FOR ESTIMATE

Page _____
 Sheet 6 of 10
 Date _____

Project _____

Classification	Rate					
	Current to 6-30-85	FRINGES	TAXES		REHIRE	USA
Foreman	27.73	5.05	7.63		0.62	41.03
Health & Welfare	1.65					
Pension	3.00					
Vacation	-					
Industry Advancement	0.05					
Apprenticeship	0.35					
Travel Time						
Subsistence						
	631.84					
PILE DRIVERS:						
Journeyman	23.38	6.15	6.44		0.55	36.52
Foreman	26.30	6.15	7.24		0.61	40.30
Health & Welfare	1.40					
Pension	4.50					
Vacation	-					
Industry Advancement	0.05					
Apprenticeship	0.20					
Travel Time						
Subsistence						
CEMENT FINISHERS:						
Journeyman	22.26	6.50	6.13		0.54	35.43
Foreman	24.48	6.50	6.74		0.58	38.30
Health & Welfare	2.10					
Pension	4.10					

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.

WAGE RATES FOR ESTIMATE

Page

Sheet

Date

7 of 10

Project

Classification	Rate					
	Current to-	FRINGES	PAUS. & INS.		REHIRE	USE
Vacation	-					
Industry Advancement	0.05					
Apprenticeship	0.25					
Travel Time						
Subsistence						
IRON WORKERS:						
Reinforcing	24.97	6.35	6.87		0.59	38.78
Structural	24.97	"	6.87		0.59	38.78
Foreman	27.27	"	7.51		0.63	41.71
Health & Welfare	1.45					
Pension	4.50					
Vacation	-					
Industry Advancement	0.15					
Apprenticeship	0.25					
Travel Time						
Subsistence						
BOILERMAKERS:						
Journeyman	26.99	4.80	7.43		0.60	39.82
Foreman	29.29	4.80	8.06		0.65	42.80
Health & Welfare	1.30					
Pension	3.40					
Vacation						
Industry Advancement	0.05					

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.

WAGE RATES FOR ESTIMATE

Page

Sheet

Date

7 of 10

Project

Classification	Rate					
	Current to-	FRINGES	PAID BEN.		REHIRE	USE
Vacation	-					
Industry Advancement	0.05					
Apprenticeship	0.25					
Travel Time						
Subsistence						
IRON WORKERS:						
Reinforcing	24.97	6.35	6.87		0.59	38.78
Structural	24.97	"	6.87		0.59	38.78
Foreman	27.27	"	7.51		0.63	41.71
Health & Welfare	1.45					
Pension	4.50					
Vacation	-					
Industry Advancement	0.15					
Apprenticeship	0.25					
Travel Time						
Subsistence						
BOILERMAKERS:						
Journeyman	26.99	4.80	7.43		0.60	39.82
Foreman	29.29	4.80	8.06		0.65	42.80
Health & Welfare	1.30					
Pension	3.40					
Vacation						
Industry Advancement	0.05					

DIVERSIFIED ENGINEERS & CONSTRUCTORS, INC.

WAGE RATES FOR ESTIMATE

Page
Sheet 8 of 10
Date

Project

Classification	Rate					
	current to-	FRINGES	UNEMPLOYMENT	RETIRE	USE	
Apprenticeship	0.05					
Travel Time						
Subsistence						
ELECTRICIANS:						
Journeyman	27.77	4.55	7.65	0.65	42.62	
Foreman	31.22	"	8.60	0.71	41.06	
GROUNDMAN	25.47	"	7.01	0.60	39.63	
Health & welfare	1.65					
Pension	4.50					
Vacation						
Industry Advancement	0.15					
Apprenticeship	0.25					
Travel Time						
Subsistence						
PLUMBERS & STEAMFITTERS:						
Journeyman						
Foreman						
Health & Welfare						
Pension						
Vacation						
Industry Advancement						
Apprenticeship						
Travel Time						

WAGE RATES FOR ESTIMATE

Page _____
Sheet 9 of 10
Date _____

Project _____

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WAGE RATES FOR ESTIMATE

Page _____
Sheet 10 of 10
Date _____

Project _____

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**ALASKA
A.G.C. OF AMERICA, INC.
WAGE
&
FRINGE BENEFIT
SUPPLEMENT**

EFFECTIVE FEBRUARY 1, 1985

BRICKLAYERS LOCAL UNION NO. 1.....	Page 1
CARPENTERS (South of the 63rd Parallel).....	Page 7
CARPENTERS LOCAL UNION #1243 (North of the 63rd Parallel).....	Page 7
HOTEL EMPLOYEES AND RESTAURANT EMPLOYEES, AND CONSTRUCTION CAMP EMPLOYEES UNION AFL CIO OF ALASKA.....	Page 7
ALASKA STATE DISTRICT COUNCIL OF LABORERS AND ITS AFFILIATED LOCAL UNIONS.....	Pages 5 - 7
OPERATING ENGINEERS, LOCAL 302.....	Pages 9 - 13
PILEDRIVERS, BRIDGE, DOCK BUILDERS & DIVERS NO. 2520.....	Page 14
PLASTERERS & CEMENT MASONS #867 (South of the 63rd Parallel).....	Pages 15 - 16
PLASTERERS & CEMENT MASONS #867 (North of the 63rd Parallel).....	Pages 17 - 18
TEAMSTERS LOCAL NO. 959.....	Pages 19 - 21

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AGREEMENT BETWEEN
ALASKA CHAPTER
ASSOCIATED GENERAL CONTRACTORS
P. O. BOX 4-2500
ANCHORAGE, ALASKA 99509
AND
BRICKLAYERS LOCAL UNION NO. 1

Hourly wage rates and fringe benefits - effective February 1, 1985 through June 30, 1985

CLASSIFICATION	HOURLY RATE	PENSION FUND	HEALTH & WELFARE	I.N.T	TRAINING	INT'L. PENSION FUND	*ACIAP
Bricklayers	\$22.34	\$5.00	\$2.10	\$0.01	\$0.00	\$0.62	\$0.05
Blocklayers	22.34	5.00	2.10	.01	.00	.62	.05
Stone Masons	22.34	5.00	2.10	.01	.00	.62	.05
Marble Mosaic	22.34	5.00	2.10	.01	.00	.62	.05
Tile Mosaic	21.81	5.00	2.10	.01	.00	.62	.05
Tile Mosaic Helpers	19.41	5.00	2.10	.01	.00	.62	.05
Terrazzo Workers	22.34	5.00	2.10	.01	.00	.62	.05
Terrazzo Helpers	19.41	5.00	2.10	.01	.00	.62	.05
Vertical Applicators	21.23	5.00	2.10	.01	.00	.62	.05

FOREMEN shall receive \$1.00 above their classification scale.

GENERAL FOREMEN shall receive \$2.00 above their classification scale.

Union Working Agreement: \$0.25 per compensable hour (subject to I.R.S. taxation).

*Alaska Construction Industry Advancement Program. All signatory employers are obligated to remit \$0.05 per compensable hour to the A.C.I.A.P.

AGREEMENT BETWEEN
ALASKA CHAPTER
ASSOCIATED GENERAL CONTRACTORS
P. O. BOX 4-2500
ANCHORAGE, ALASKA 99509
AND
ALASKA TECHNICAL ENGINEERS
(AFFILIATE OF TEAMSTERS 999)

Hourly wage rates and fringe benefits - effective February 1, 1985 through June 30, 1985.

CLASSIFICATION	HOURLY RATE	HEALTH & WELFARE	PENSION PLAN	PAID-TO-LEGAL	APPRENTICESHIP TRAINING	SERVICE COMP.	*ACIAP
Chief of Parties	\$3.92	2.59	1.00	.20	.30	.45	.05
Party Chief	24.68	2.59	1.00	.20	.30	.45	.05
Associate Party Chief	23.20	2.59	1.00	.20	.30	.45	.05
Instrumentperson	22.43	2.59	1.00	.20	.30	.45	.05
Office Survey Technician	22.43	2.59	1.00	.20	.30	.45	.05
Stakeout	22.43	2.59	1.00	.20	.30	.45	.05
Chainperson	19.83	2.59	1.00	.20	.30	.45	.05

Union Agreement: \$1.00 per hour. (Subject to I.R.S. taxation.)

*ACIAP - Alaska Construction Industry Advancement Program - All signatory employers are obligated to remit \$0 per compensable hour to the ACIAP.

PRIVATE HOME AND RESIDENTIAL RATES

CLASSIFICATION	HOURLY RATE	HEALTH & WELFARE	PENSION PLAN	PAID-TO-LEGAL	APPRENTICESHIP TRAINING	SERVICE COMP.	*ACIAP
Chief of Parties	\$9.96	2.59	1.00	.20	.30	.45	.05
Party Chief	18.64	2.59	1.00	.20	.30	.45	.05
Associate Party Chief	15.96	2.59	1.00	.20	.30	.45	.05
Instrumentperson	15.96	2.59	1.00	.20	.30	.45	.05
Office Survey Technician	15.96	2.59	1.00	.20	.30	.45	.05
Stakeout	13.90	2.59	1.00	.20	.30	.45	.05
Chainperson	10.64	2.59	1.00	.20	.30	.45	.05

AGREEMENT BETWEEN THE ALASKA CHAPTER ASSOCIATED GENERAL CONTRACTORS AND
TEAMSTERS UNION LOCAL 937

Continued-

CLASSIFICATION	WAGE	PLANS	U. COMP.	U. & W.	PREPAID LEGAL	APPRENT. TRAINING	SERVICE CORP.	*ACIAP
Group 1								
Warehouseperson - Class I	21.61	4.00	.10	2.59	.20	.30	.45	.05
Warehouseperson - Class II	21.61	4.00	.10	2.59	.20	.30	.45	.05
Bus Operators, up to 30 passengers	21.61	4.00	.10	2.59	.20	.30	.45	.05
Para Type Rubber Tired Tractor (when material handling or pulling wagons)	21.61	4.00	.10	2.59	.20	.30	.45	.05
Farm Distributor, single mile	21.61	4.00	.10	2.59	.20	.30	.45	.05
Amulance	21.61	4.00	.10	2.59	.20	.30	.45	.05
Hydro Hoovers, single mile	21.61	4.00	.10	2.59	.20	.30	.45	.05
Team Drivers (horses, oxen, and similar equipment)	21.61	4.00	.10	2.59	.20	.30	.45	.05
Vacuum trucks, truck vacuum sweepers, single mile	21.61	4.00	.10	2.59	.20	.30	.45	.05
Pipe Trucks, single mile	21.61	4.00	.10	2.59	.20	.30	.45	.05
Slogger, warehouse operation	21.61	4.00	.10	2.59	.20	.30	.45	.05
Pest Handler	21.61	4.00	.10	2.59	.20	.30	.45	.05
Group 6								
Sanitary Helper	19.01	4.00	.10	2.59	.20	.30	.45	.05

*ACIAP - All signatory employers are obligated to remit \$.05 per compensable hour to the Alaska Construction Industry Advancement Program.

Union Working Agreement: \$1.00 per hour (Subject to I.R.S. taxation.)
Effective September 15, 1984 - \$1.00 per hour.

Purpose: Receives \$1.00 per hour over highest classification supervised.

General Foreman: Receives \$1.50 per hour over highest classification supervised.

PRIVATE WORKS AND RESIDENTIAL RATES

CLASSIFICATION	WAGE	PLANS	U. COMP.	U. & W.	PREPAID LEGAL	APPRENT. TRAINING	SERVICE CORP.	*ACIAP
Residential	12.34	2.00	.10	2.59	.20	.30	.45	.05
Sanitary	10.99	2.00	.10	2.59	.20	.30	.45	.05
Private Street & Utility	15.33	2.00	.10	2.59	.20	.30	.45	.05
Sanitary	15.02	2.00	.10	2.59	.20	.30	.45	.05
Site Work	15.33	2.00	.10	2.59	.20	.30	.45	.05
Sanitary	15.02	2.00	.10	2.59	.20	.30	.45	.05
Light Commercial	19.20	2.00	.10	2.59	.20	.30	.45	.05
Sanitary	18.45	2.00	.10	2.59	.20	.30	.45	.05

AGREEMENT BETWEEN
ALASKA CHAPTER
ASSOCIATED GENERAL CONTRACTORS
P. O. BOX 4-2500
ANCHORAGE, ALASKA 99509

LOCAL CARPENTERS UNIONS WITHIN THE
ALASKA STATE COUNCIL OF CARPENTERS ANCHORAGE
(SOUTH OF 43RD PARALLEL)

Hourly wage rates and fringes from February 1, 1985 through June 30, 1985 are as follow

CLASS	WAGE PER HOUR	HEALTH & SECURITY	PENSION	APPRENTICE TRAINING	*ACIAP
JOURNEYMAN					
Carpenter	\$23.95	\$1.65	\$3.00	\$.35	\$.05
Lathers	24.44	1.65	3.00	.35	.05
Acoustical Applicator	24.44	1.65	3.00	.35	.05
Radial Arm Saw Operator	24.44	1.65	3.00	.35	.05
Millwright	24.65	1.65	3.00	.35	.05

Foreman receive 12-1/2% above majority of classifications being supervised.

General Foreman receive 25% above majority of classifications being supervised.

TOOL ALLOWANCE: 15¢ per hour - Carpenter Classification
30¢ per hour - Millwright Classification
Tool allowance is at straight time rate and subject to I.R.S. taxation.

APPRENTICES REGISTERED BEFORE JANUARY 1, 1985

	64X	68X	72X	76X	80X	84X	90X	95X
750 HOURS	1st	2nd	3rd	4th	5th	6th	7th	8th
Carpenter	\$15.33	\$16.29	\$17.24	\$18.20	\$19.16	\$20.34	\$21.56	\$22.75
Radial Arm Saw Operator	15.64	16.62	17.60	18.57	19.55	20.77	22.00	23.22
Millwright	15.76	16.76	17.75	18.73	19.72	20.95	22.19	23.62

APPRENTICES REGISTERED AFTER JANUARY 1, 1985

	70X	74X	78X	82X	86X	90X	94X	
750 HOURS	1st	2nd	3rd	4th	5th	6th	8th	
Carpenter	\$11.98	\$13.41	\$14.83	\$15.81	\$17.24	\$19.16	\$21.08	\$22.95
Radial Arm Saw Operator	12.22	13.69	15.15	16.13	17.60	19.55	21.51	23.46
Millwright	12.33	13.80	15.28	16.27	17.75	19.72	21.69	23.66

*ACIAP - All signatory employers are required to remit \$.05 per compensable hour to the Alaska Construction Industry Advancement Program.

LIGHT COMMERCIAL RATES

CLASS	WAGE PER HOUR	HEALTH & SECURITY	PENSION	APPRENTICE TRAINING	*ACIAP
JOURNEYMAN					
Carpenter	\$ 20.00	\$ 1.65	\$ 2.00	\$.35	\$.05
Lather/Acoustical Applicator	20.20	1.65	2.00	.35	.05
Radial Arm Saw Operator	20.20	1.65	2.00	.35	.05

**AGREEMENT BETWEEN
ALASKA CHAPTER, ASSOCIATED GENERAL CONTRACTORS
P. O. BOX 4-2300
ANCHORAGE, ALASKA 99509
AND
CARPENTERS LOCAL UNION #1243 FAIRBANKS
(NORTH OF THE 63RD PARALLEL)**

Hourly wage rates and fringe benefits - effective February 1, 1985 through June 30, 1985:

CLASS	WAGE PER HOUR	HEALTH & SECURITY	PENSION	APPRENTICE TRAINING	%ACIAP
TIME 1 - (0 - 15 MILES FROM THE FAIRBANKS POST OFFICE)					
Journeyman Carpenter	\$26.00	\$ 1.40	\$4.00	\$.15	\$.03
Weld or similar type saw operator	26.34	1.40	4.00	.15	.03
Saw Filer	26.34	1.40	4.00	.15	.03
Rolling Machine Operator	26.34	1.40	4.00	.15	.03
Power-Actuated Tool Operator	26.34	1.40	4.00	.15	.03
Marlita & Acoustical Applicator	26.34	1.40	4.00	.15	.03
Floor Workers	26.34	1.40	4.00	.15	.03
Pipe or Flood Repair Work	26.34	1.40	4.00	.15	.03
Millwright	26.75	1.40	4.00	.15	.03

ZONE 2 - (15 - 35 MILES FROM THE FAIRBANKS POST OFFICE):
Add \$1.04 per hour to Zone 1 scale.

ZONE 3 - (35 - 50 MILES FROM THE FAIRBANKS POST OFFICE):
Add \$1.69 per hour to Zone 1 scale.

Welder - 9.34 per hour above classification in which working.

Rigger - Scale of classification in which working.

General Foreman - 25% above Journeyman Carpenter/Millwright scale.

Foreman - 15% above Journeyman Carpenter/Millwright scale.

Working Foreman - 12-1/2% above Journeyman Carpenter/Millwright scale.

Tool Allowance: 15¢ per hour for Carpenter classifications,
10¢ per hour for Millwright classifications.
Tool allowance is subject to I.R.S. taxation.

High Pay - 25¢ per hour for 25 feet up, plus 10¢ per hour per each additional 20 feet above the ground, deck or surface below (free fall distance) on a half shift basis.

Basic Pay - 50¢ per hour on half shift basis.

APPRENTICESHIP wage schedule are as follows:

1000 Hours	1st	2nd	3rd	4th	5th	6th	7th
	\$17	\$18	\$19	\$20	\$21	\$22	\$23
Carpenters	\$16.44	\$17.42	\$18.20	\$19.76	\$21.32	\$22.88	\$24.44
Marlita & Acoustical	16.99	17.78	18.58	20.17	21.76	23.36	24.95
Floor Workers	16.99	17.78	18.58	20.17	21.76	23.36	24.95
Pipe or Flood	16.99	17.78	18.58	20.17	21.76	23.36	24.95
Millwrights	17.12	17.92	18.73	20.33	21.94	23.54	25.15

(2/1/85)

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(AK-AGC)

**AGREEMENT BETWEEN THE ALASKA CHAPTER ASSOCIATED GENERAL CONTRACTORS AND
TRANSYERS UNION LOCAL 551**

Continued-

CLASSIFICATION	HOURLY WAGE	PERM. PLAN	W.COM. PENSION	H & M	PREPAID LEGAL	APPRENT. TRAINING	SERVICE COMP.	%ACIAP
Group 4								
Scissor Lift	22.32	4.00	-10	2.59	-20	-30	.45	.05
Scal or Truck/Trailer	22.32	4.00	-10	2.59	-20	-30	.45	.05
Dumper	22.32	4.00	-10	2.59	-20	-30	.45	.05
Batch Trucks over 5 yards	22.32	4.00	-10	2.59	-20	-30	.45	.05
Scrap Trucks (including rockhogg and trucks with pipe up to and including 10 yards)	22.32	4.00	-10	2.59	-20	-30	.45	.05
Cia Pole Driver	22.32	4.00	-10	2.59	-20	-30	.45	.05
Truck Truck Equipment	22.32	4.00	-10	2.59	-20	-30	.45	.05
Stringing Truck	22.32	4.00	-10	2.59	-20	-30	.45	.05
Flat Truck, Fuel Shailer w/truck	22.32	4.00	-10	2.59	-20	-30	.45	.05
Grease Truck	22.32	4.00	-10	2.59	-20	-30	.45	.05
Flat Bed, Dual rear axle	22.32	4.00	-10	2.59	-20	-30	.45	.05
Hydro Operator (handling bulk Aggregates)	22.32	4.00	-10	2.59	-20	-30	.45	.05
Lumber Carriers	22.32	4.00	-10	2.59	-20	-30	.45	.05
Ready Mix over 5 yards up to and including 10 yards	22.32	4.00	-10	2.59	-20	-30	.45	.05
Water Wagon, Dual axle	22.32	4.00	-10	2.59	-20	-30	.45	.05
Water Wagon, Single axle	22.32	4.00	-10	2.59	-20	-30	.45	.05
Wreck Truck, wrecker, flat bed including "A" frame over 5 tons	22.32	4.00	-10	2.59	-20	-30	.45	.05
Ball lifts and Fork lifts, Fork lifts with power boom & wing attachments over 5 tons	22.32	4.00	-10	2.59	-20	-30	.45	.05
Front End Loader with Forks	22.32	4.00	-10	2.59	-20	-30	.45	.05
Box Operator over 30 passengers	22.32	4.00	-10	2.59	-20	-30	.45	.05
All Terrain Vehicles	22.32	4.00	-10	2.59	-20	-30	.45	.05
Boom Truck, Scissor truck over 5 tons	22.32	4.00	-10	2.59	-20	-30	.45	.05
Form Distributor Truck/Dual axle	22.32	4.00	-10	2.59	-20	-30	.45	.05
Hydro-Spreaders, Dual axle	22.32	4.00	-10	2.59	-20	-30	.45	.05
Vacuum Trucks, Truck Vacuum	22.32	4.00	-10	2.59	-20	-30	.45	.05
Sweepers, Dual axle	22.32	4.00	-10	2.59	-20	-30	.45	.05
Landmaster (air & water)	22.32	4.00	-10	2.59	-20	-30	.45	.05
Air Cushion or similar type	22.32	4.00	-10	2.59	-20	-30	.45	.05
Pipe Truck, Dual axle	22.32	4.00	-10	2.59	-20	-30	.45	.05
Combination Truck-Fork/Crane	22.32	4.00	-10	2.59	-20	-30	.45	.05
Crane	22.32	4.00	-10	2.59	-20	-30	.45	.05
Right-over-the-road operation	22.32	4.00	-10	2.59	-20	-30	.45	.05
Expeditor	22.32	4.00	-10	2.59	-20	-30	.45	.05
Group 5								
Batch Trucks up to and including 5 yards	21.61	4.00	-10	2.59	-20	-30	.45	.05
Gravel Spreader Box Operator on truck	21.61	4.00	-10	2.59	-20	-30	.45	.05
Flat Bed, Single rear axle	21.61	4.00	-10	2.59	-20	-30	.45	.05
Ready Mix up to and including 5 yards	21.61	4.00	-10	2.59	-20	-30	.45	.05
Scrap Truck/Scissor Truck up to and including 5 tons	21.61	4.00	-10	2.59	-20	-30	.45	.05
Pickups (pilot cars and all light duty vehicles)	21.61	4.00	-10	2.59	-20	-30	.45	.05
Water Wagon, single axle	21.61	4.00	-10	2.59	-20	-30	.45	.05
Wreck Truck, wrecker, flat bed including "A" frame 5 tons and under	21.61	4.00	-10	2.59	-20	-30	.45	.05
Ball lifts & Fork lifts (Fork lifts with power boom & wing attach- ments up to & including 5 tons)	21.61	4.00	-10	2.59	-20	-30	.45	.05

(2/1/85)

-10-

(AK-AGC)

250
TRANSMITTER UNION LOCAL 910

Hourly wage rates and fringe benefits - effective February 1, 1983 through June 30, 1993.

CLASSIFICATION	ARMY PERM.		U. COM.		PERM'S AFFILI.		SERVICE	
	GRADE	PLAT	PERMION	B & M	LEGAL	TRAINING	COPI.	"ACAP"
Group 1								
Ready Mix over 12 1/2 up to and including 15 yards (over 15 yards to be negotiated between Union and AEC.	24.51	4.00	-10	2.59	-20	-30	-.65	-.05
Load with Double Box Mixer	24.51	4.00	-10	2.59	-10	-30	-.65	-.05
Dump Trucks (including rockhuggs and trucks with paps) over 40 up to & including 100 yards	24.51	4.00	-10	2.59	-20	-30	-.65	-.05
Skidste, Commanders, Ballenger and similar equipment when pulling sleds, etc.	24.51	4.00	-10	2.59	-20	-30	-.65	-.05
Ballenger Commanders	24.51	4.00	-10	2.59	-20	-30	-.65	-.05
Ballenger Transmitters	24.51	4.00	-10	2.59	-20	-30	-.65	-.05
Landpays including attached trailers and jupes, 12 miles east 12 miles or 150 can to be negotiated between Union and AEC.	24.51	4.00	-10	2.59	-20	-30	-.65	-.05
Group 1A								
Dump Trucks (including rockhuggs and trucks with paps) over 40 yds up to and including 100 yds (over 100 yards to be negotiated between Union and AEC	25.56	4.00	-10	2.59	-20	-30	-.65	-.05
Group 2								
Ballenger or M-10, sec self-loading	23.46	4.00	-10	2.59	-20	-30	-.65	-.05
Ready Mix over 7 yards up to and including 15 yards	23.46	4.00	-10	2.59	-20	-30	-.65	-.05
All Ballenger's, Commanders, Ballenger and similar equipment	23.46	4.00	-10	2.59	-20	-30	-.65	-.05
Ballenger	23.46	4.00	-10	2.59	-20	-30	-.65	-.05
Tractors	23.46	4.00	-10	2.59	-20	-30	-.65	-.05
Dump Trucks (including rockhuggs and trucks with paps) over 20 up to and including 40 yards	23.46	4.00	-10	2.59	-20	-30	-.65	-.05
Group 3								
Dump Trucks (including rockhuggs and trucks with paps) over 10 up to and including 20 yards	22.76	4.00	-10	2.59	-20	-30	-.65	-.05
Landpays including attached trailers and jupes up to and including 11 miles	22.76	4.00	-10	2.59	-20	-30	-.65	-.05
Oil Distributor Drivers	22.76	4.00	-10	2.59	-20	-30	-.65	-.05
Ready Mix (over 5 yards up to and including 7 yards	22.76	4.00	-10	2.59	-20	-30	-.65	-.05
Compactor (when pulled by rubber tired equipment)	22.76	4.00	-10	2.59	-20	-30	-.65	-.05
Water Wagon (when pulled by Ballenger or similar type equipment)	22.76	4.00	-10	2.59	-20	-30	-.65	-.05
Per person	22.76	4.00	-10	2.59	-20	-30	-.65	-.05

-19-

(ME-ACC)

AGREEMENT BETWEEN
ALASKA CHAPTER
ASSOCIATED GENERAL CONTRACTORS
P. O. BOX 4-2500
ANCHORAGE, ALASKA 99509

HOTEL EMPLOYEES AND RESTAURANT EMPLOYEES, AND CONSTRUCTION CAMP EMPLOYEES UNIONS
APL-CIO OF ALASKA

Hourly wage rates and fringe benefits effective January 1, 1984 through June 30, 1984.*

<u>CLASSIFICATION</u>	<u>BASIC WAGE PER HOUR</u>	<u>HEALTH & WELFARE</u>	<u>PENSION FUND</u>	<u>TRAINING FUND</u>	<u>LEGAL AID TRUST</u>	<u>*ACIAP</u>
Working Comp Manager	21.36	.00	4.00	.04	.02	.05
Head Cook	21.36	.00	4.00	.04	.02	.05
Baker	20.89	.00	4.00	.04	.02	.05
Cook/Baker	20.89	.00	4.00	.04	.02	.05
Cook	20.17	.00	4.00	.04	.02	.05
Head Housekeeper	18.61	.00	4.00	.04	.02	.05
Head Kitchen Helper	18.61	.00	4.00	.04	.02	.05
Commissary Attendant	18.25	.00	4.00	.04	.02	.05
Housekeeper	18.25	.00	4.00	.04	.02	.05
Kitchen Helper	18.25	.00	4.00	.04	.02	.05
General Helper	18.25	.00	4.00	.04	.02	.05
Janitor	18.25	.00	4.00	.04	.02	.05

Trainee's wage rate for one month is 85% of journeyman wage rate.

APPRENTICESHIP wage schedules are as follows:

0000 Hours	1st	2nd	3rd	4th	5th	6th	95%
	75%	70%	65%	60%	55%	50%	
Baker	15.67	16.50	17.34	18.17	19.01		19.85
Cook/Baker	15.67	16.50	17.34	18.17	19.01		19.85
Cook	15.13	15.93	16.74	17.55	18.35		19.16

Union Agreement: \$.35 per compensable hour (subject to I.R.S. taxation).

\$10.00 per day will be paid when split shift is worked.

Tool Allowance: 5¢ per compensable hour.

Load, Unload, Drive: Employees required to load, unload, or drive vehicles as part of their regular work shall receive an additional \$3.00 per shift.

*ACIAF - All signatory employers are obligated to remit \$.05 per compensable hour to the Alaska Construction Industry Advancement Program.

*A NEW AGREEMENT HAS NOT BEEN CONCLUDED AS OF 2/1/85.

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(AK-ACC)

AGREEMENT BETWEEN
ALASKA CHAPTER, ASSOCIATED GENERAL CONTRACTORS
P. O. BOX 4-2500
ANCHORAGE, ALASKA 99509

ALASKA STATE DISTRICT COUNCIL OF LABORERS AND ITS AFFILIATED LOCAL UNIONS

Hourly wages and fringe benefits - effective February 1, 1985 through June 30, 1985.

CLASSIFICATION	WAGE	FOOD	HEALTH & WELFARE	APPRENTICE TRAINING	PREPAID LEGAL	*ACTAP
Group I						
Iron and Floor Machineman	20.34	4.00	2.10	.20	.15	.05
Ironman (tunnel and shaft work)	20.34	4.00	2.10	.20	.15	.05
Crane Operator	20.34	4.00	2.10	.20	.15	.05
Drilling Machine Man	20.34	4.00	2.10	.20	.15	.05
Jump Maintenance Laborer	20.34	4.00	2.10	.20	.15	.05
Inspector tenders OR helpers	20.34	4.00	2.10	.20	.15	.05
Crane Setters	20.34	4.00	2.10	.20	.15	.05
*Crane	20.34	4.00	2.10	.20	.15	.05
Computer	20.34	4.00	2.10	.20	.15	.05
Crusher Plant Laborer	20.34	4.00	2.10	.20	.15	.05
Demolition Laborer	20.34	4.00	2.10	.20	.15	.05
Blade Wipers	20.34	4.00	2.10	.20	.15	.05
*Boys Per Firm	20.34	4.00	2.10	.20	.15	.05
Drumman	20.34	4.00	2.10	.20	.15	.05
Dump Man	20.34	4.00	2.10	.20	.15	.05
Fire Watch (certified)	20.34	4.00	2.10	.20	.15	.05
Fire Watch Laborer	20.34	4.00	2.10	.20	.15	.05
Flagman	20.34	4.00	2.10	.20	.15	.05
Perm strippers	20.34	4.00	2.10	.20	.15	.05
General Laborer	20.34	4.00	2.10	.20	.15	.05
*Grinding (not in preparation for welding)	20.34	4.00	2.10	.20	.15	.05
Castwell Laborer	20.34	4.00	2.10	.20	.15	.05
High Pressure Water Operator	20.34	4.00	2.10	.20	.15	.05
Hydro-welder Mechanic	20.34	4.00	2.10	.20	.15	.05
Laborers, Building	20.34	4.00	2.10	.20	.15	.05
Landscaper or Planter	20.34	4.00	2.10	.20	.15	.05
Material handlers, hook tenders	20.34	4.00	2.10	.20	.15	.05
Mechanical Workers (sewer work)	20.34	4.00	2.10	.20	.15	.05
Wipers (tunnel and shaftwork)	20.34	4.00	2.10	.20	.15	.05
Oil Spill Laborer	20.34	4.00	2.10	.20	.15	.05
*Paper Lathers	20.34	4.00	2.10	.20	.15	.05
*Pipe Cleaning	20.34	4.00	2.10	.20	.15	.05
Pit Man	20.34	4.00	2.10	.20	.15	.05
Pneumatic or Power Tools	20.34	4.00	2.10	.20	.15	.05
Portable or Chemical						
Teller Serviceman	20.34	4.00	2.10	.20	.15	.05
*Pre-heat for drying or cleaning	20.34	4.00	2.10	.20	.15	.05
*Pump Man or Riser Man	20.34	4.00	2.10	.20	.15	.05
*Railroad Track Laborer	20.34	4.00	2.10	.20	.15	.05
*Reblast, get tender	20.34	4.00	2.10	.20	.15	.05
*Re tenders	20.34	4.00	2.10	.20	.15	.05
*Scaffold building & erecting	20.34	4.00	2.10	.20	.15	.05
*Tension	20.34	4.00	2.10	.20	.15	.05
*Trench Digger	20.34	4.00	2.10	.20	.15	.05
*Steam Point or Water Jet Operator	20.34	4.00	2.10	.20	.15	.05
*Steam cleaner operator	20.34	4.00	2.10	.20	.15	.05

*Pipeline Classifications

AGREEMENT BETWEEN THE ALASKA CHAPTER, ASSOCIATED GENERAL CONTRACTORS AND THE
PLASTERERS AND CEMENT MASONS LOCAL 867 (North of the 63rd Parallel)

FORWARD to receive 10% above Group I scale.

CEMENT FORWARD to receive 50¢ per hour above Forman.

WORKING DUES CHECK OFF - 50¢ per hour (subject to IRS taxation).

*ACTAP - All signatory employers are obligated to remit 5¢ per compensable hour to the Alaska Construction Industry Advancement Program.

APPRENTICES

	1ST YEAR 75 %	2ND YEAR 80 %	3RD YEAR 90 %
Group I	16.54	17.64	19.85
Group II	16.68	17.79	20.02
Group III	16.83	18.01	20.20
Group IV	17.06	18.20	20.48
Group V	17.45	18.82	21.18

(2/1/85)

-5-

(AK-AGC)

(2/1/85)

-15-

(AK-AGC)

AGREEMENT BETWEEN
ALASKA CHAPTER
ASSOCIATED GENERAL CONTRACTORS
P. O. BOX 4-2800
ANCHORAGE, ALASKA 99509
AND
PLASTERERS & CEMENT MASONS LOCAL NO. 847
(March of the 31st Parallel)

Hourly wage rates and fringe benefits effective February 1, 1985 through June 30, 1986.

CLASSIFICATION	HOURLY WAGE	HEALTH & WELFARE	PENSION	APPRENTICE TRAINING	*ACIAP
Group I					
Building, General	22.05	2.10	4.10	.25	.05
Forming (Concrete)	22.05	2.10	4.10	.25	.05
Curb, Gutter & Sidewalks	22.05	2.10	4.10	.25	.05
Screed Fin & Strand Setters	22.05	2.10	4.10	.25	.05
Patching Concrete	22.05	2.10	4.10	.25	.05
Spackling or Skin Coating of Concrete	22.05	2.10	4.10	.25	.05
Application of Joint Sealing Compound	22.05	2.10	4.10	.25	.05
Curing all Concrete	22.05	2.10	4.10	.25	.05
Application of Underlayment	22.05	2.10	4.10	.25	.05
Growing & Curing of Vitr Op Panels	22.05	2.10	4.10	.25	.05
Curing of all Plates	22.05	2.10	4.10	.25	.05
Group II					
Pump Setters	22.24	2.10	4.10	.25	.05
Group III					
Tremie Machine	22.51	2.10	4.10	.25	.05
Curb & Gutter Machine	22.51	2.10	4.10	.25	.05
Operating Screeding & Buckling Machines	22.51	2.10	4.10	.25	.05
Concrete Saw (Half-Powered)	22.51	2.10	4.10	.25	.05
Pneumatic Power Tools	22.51	2.10	4.10	.25	.05
Flair Grinders	22.51	2.10	4.10	.25	.05
Power Chipping & Bucking	22.51	2.10	4.10	.25	.05
Sanblasting Architectural Finish	22.51	2.10	4.10	.25	.05
Group IV					
Application of all Composition & Mastic	22.75	2.10	4.10	.25	.05
Application of all Epoxy Materials	22.75	2.10	4.10	.25	.05
Application of all Plastic Materials	22.75	2.10	4.10	.25	.05
Finish Colored Concrete	22.75	2.10	4.10	.25	.05
Hand Powerd Grinder	22.75	2.10	4.10	.25	.05
Concrete Masons	22.75	2.10	4.10	.25	.05
Tunnel Workers	22.75	2.10	4.10	.25	.05
Group V					
Plasterers	23.53	2.10	4.10	.25	.05

(2/1/85)

-17-

(AK-AGC)

AGREEMENT BETWEEN THE ALASKA CHAPTER ASSOCIATED GENERAL CONTRACTORS AND
THE ALASKA STATE DISTRICT COUNCIL OF LABORERS AND ITS AFFILIATED LOCAL UNIONS

CLASSIFICATION	HOURLY WAGE	PENSION FUND	HEALTH & WELFARE	APPRENTICE TRAINING	PREPAID LEGAL	*ACIAP
*Sumpers (including, but not limited to, on sidebooms, pipe-pole cranes, winch trucks, forklifts, etc.)	20.34	4.00	2.10	.20	.15	.05
Tank Cleaning	20.34	4.00	2.10	.20	.15	.05
*Tapers	20.34	4.00	2.10	.20	.15	.05
Topman and Bull Gang (tunnel and shaft work)	20.34	4.00	2.10	.20	.15	.05
Utility and Utility Laborer	20.34	4.00	2.10	.20	.15	.05
Watchman (construction project)	20.34	4.00	2.10	.20	.15	.05
Window Cleaner	20.34	4.00	2.10	.20	.15	.05
GROUP II						
Asphalt workers (shovelman, plant crew) (tar rubber and 25¢/hr.)	20.68	4.00	2.10	.20	.15	.05
Concrete Labor (Curb & gutter, chase handler, grouting, curing, screeding)	20.68	4.00	2.10	.20	.15	.05
Helpers (tunnel and shaft work)	20.68	4.00	2.10	.20	.15	.05
Rigger	20.68	4.00	2.10	.20	.15	.05
Slurry work	20.68	4.00	2.10	.20	.15	.05
GROUP III						
Burning and Cutting Torch	21.08	4.00	2.10	.20	.15	.05
Catyllet, Spozis	21.08	4.00	2.10	.20	.15	.05
Concrete or Line Dumper or Handler (each or bulk)	21.08	4.00	2.10	.20	.15	.05
Chainaw Filler	21.08	4.00	2.10	.20	.15	.05
Chainaw Operator	21.08	4.00	2.10	.20	.15	.05
Choker splicer	21.08	4.00	2.10	.20	.15	.05
Chuckender (wages, strack and hydraulic drills)	21.08	4.00	2.10	.20	.15	.05
Concrete Laborers (power buggy, concrete pump, pumpcrete auxiliaries, vibrators)	21.08	4.00	2.10	.20	.15	.05
Pump Gun or Pump Machine Operator	21.08	4.00	2.10	.20	.15	.05
Green Cutter (dam work)	21.08	4.00	2.10	.20	.15	.05
Guardrail layout man	21.08	4.00	2.10	.20	.15	.05
Concrete Operator	21.08	4.00	2.10	.20	.15	.05
Insulator	21.08	4.00	2.10	.20	.15	.05
Jackhammer Or Pavement Breakers	21.08	4.00	2.10	.20	.15	.05
Laser Instrument Operators	21.08	4.00	2.10	.20	.15	.05
Manon Tender and Mud Mixer (sewer work)	21.08	4.00	2.10	.20	.15	.05
Maintenance Man	21.08	4.00	2.10	.20	.15	.05
Monolithic workers (tunnel work)	21.08	4.00	2.10	.20	.15	.05
Oil Spill Laborer (marine work)	21.08	4.00	2.10	.20	.15	.05
Powerman Helper	21.08	4.00	2.10	.20	.15	.05
Pump saw Operator	21.08	4.00	2.10	.20	.15	.05
Railroad Switch Layout Laborer	21.08	4.00	2.10	.20	.15	.05
*Road crewings (castings)	21.08	4.00	2.10	.20	.15	.05
Sanblaster	21.08	4.00	2.10	.20	.15	.05
Sewer Caulkers	21.08	4.00	2.10	.20	.15	.05
Sewer Plant Maintenance Man	21.08	4.00	2.10	.20	.15	.05

*Pipeline Classifications

(2/1/85)

-6-

(AK-AGC)

AGREEMENT BETWEEN THE ALASKA CHAPTER ASSOCIATED GENERAL CONTRACTORS AND THE ALASKA STATE DISTRICT COUNCIL OF LABORERS AND ITS AFFILIATED LOCAL UNIONS

CLASSIFICATION	HOURLY WAGE	VERSION FUND	HEALTH & WELFARE	APPRENTICE TRAINING	PERFID LEGAL	*ACTAP
Sloper (over 20')	21.08	4.00	2.10	.20	.15	.05
Thermal Plastic Applicator	21.08	4.00	2.10	.20	.15	.05
Timber Feller	21.08	4.00	2.10	.20	.15	.05
Timberman	21.08	4.00	2.10	.20	.15	.05
*BN Drill helper (welding, changing teeth, etc.)	21.08	4.00	2.10	.20	.15	.05
Water Blaster (dam work)	21.08	4.00	2.10	.20	.15	.05
GROUP IV						
Concrete Vibrator Worker (4" and over)	21.34	4.00	2.10	.20	.15	.05
Red Carriers	21.34	4.00	2.10	.20	.15	.05
Pipe Builder (Stave Pipe Crews)	21.34	4.00	2.10	.20	.15	.05
Pipelayer, Culvert and Multiplate Laborer	21.34	4.00	2.10	.20	.15	.05
Pipelayers	21.34	4.00	2.10	.20	.15	.05
Plasterer, Bricklayer and Cement Finisher Tenders	21.34	4.00	2.10	.20	.15	.05
GROUP V						
Asphalt Labor (Tar rubber: Add 254)	21.60	4.00	2.10	.20	.15	.05
Bit Grinder	21.60	4.00	2.10	.20	.15	.05
*Cement Finishers	21.60	4.00	2.10	.20	.15	.05
Drill Doctor (in the field)	21.60	4.00	2.10	.20	.15	.05
Drillers (including, but not limited to, wagon drills, air-track drills, hydraulic drills)	21.60	4.00	2.10	.20	.15	.05
*Pembuilder (building of shafts, and boards, umbroards, carpenter type work etc.)	21.60	4.00	2.10	.20	.15	.05
Grademan (setting or transferring of grade marks)	21.60	4.00	2.10	.20	.15	.05
High Scaler	21.60	4.00	2.10	.20	.15	.05
Bottomhand (tunnel or shaft work)	21.60	4.00	2.10	.20	.15	.05
Slurry seal squagman	21.60	4.00	2.10	.20	.15	.05
GROUP VI						
Arc Welder (in connection with laborer's work)	21.90	4.00	2.10	.20	.15	.05
High Rigger and Tree Topper	21.90	4.00	2.10	.20	.15	.05
Planner Drilling and Drilling Off Taper (all type drills)	21.90	4.00	2.10	.20	.15	.05
Producers	21.90	4.00	2.10	.20	.15	.05
*Pipeline Classifications						

*ACTAP - All signatory employers are obligated to remit 9.05 per compensable hour to the Alaska Construction Industry Advancement Program.

All laborers required to work in tunnels, shafts or raises shall receive 10% above their wage group, based on full shift worked.

(2/1/85)

-7-

(AK-AGC)

AGREEMENT BETWEEN THE ALASKA CHAPTER, ASSOCIATED GENERAL CONTRACTORS AND THE PLASTERERS AND CEMENT MASONS LOCAL #67 (South of the 63rd Parallel)

Continued -

FORBIDAN to receive 10% above Group I scale.

GENERAL FORBIDAN to receive 50¢ per hour above Forbman.

WORKING DIES CHECK OFF - 50¢ per hour (subject to IRS taxation).

*ACTAP - All signatory employers are obligated to remit 5¢ per compensable hour to the Alaska Construction Industry Advancement Program.

APPRENTICES

	1ST YEAR 75 %	2ND YEAR 80 %	3RD YEAR 90 %
Group I	16.35	17.44	19.62
Group II	16.49	17.59	19.79
Group III	16.70	17.81	20.03
Group IV	16.88	18.00	20.23
Group V	17.46	18.62	20.95

(2/1/85)

-16-

(AK-AGC)

AGREEMENT BETWEEN
ALASKA CHAPTER
ASSOCIATED GENERAL CONTRACTORS
P. O. BOX 4-2500
ANCHORAGE, ALASKA 99509
AND

PLASTERERS & CEMENT MASONS LOCAL NO. 867
(South of the 63rd Parallel)

Hourly wage rates and fringe benefits effective February 1, 1985 through June 30, 1986.

CLASSIFICATION	HOURLY WAGE	HEALTH & WELFARE	PENSION	APPRENTICE TRAINING	*ACIAP
Group I					
Building General	21.80	2.10	4.10	.25	.05
Concrete Paving	21.80	2.10	4.10	.25	.05
Curb & Gutter, Sidewalk	21.80	2.10	4.10	.25	.05
Second Pin Setter	21.80	2.10	4.10	.25	.05
Patching Concrete	21.80	2.10	4.10	.25	.05
Spotting/Slab Coating	21.80	2.10	4.10	.25	.05
Spotting or Slab Coating of Concrete	21.80	2.10	4.10	.25	.05
Application of Joint Sealing Compound	21.80	2.10	4.10	.25	.05
Coating all Concrete	21.80	2.10	4.10	.25	.05
Application of Underlayment	21.80	2.10	4.10	.25	.05
Grouting and Caulking of Tilt Up Panels	21.80	2.10	4.10	.25	.05
Grouting of all Plates	21.80	2.10	4.10	.25	.05
Group II					
Form Bottoms	21.89	2.10	4.10	.25	.05
Group III					
Trimming Machine	22.26	2.10	4.10	.25	.05
Curb & Gutter Machine	22.26	2.10	4.10	.25	.05
Operating Scaffolding and Scaffolding Machine	22.26	2.10	4.10	.25	.05
Concrete Saw (Self-Powered)	22.26	2.10	4.10	.25	.05
Pneumatic Power Tools	22.26	2.10	4.10	.25	.05
Power Grinder	22.26	2.10	4.10	.25	.05
Power Chipping & Blasting	22.26	2.10	4.10	.25	.05
Sandblasting Architectural Finish	22.26	2.10	4.10	.25	.05
Group IV					
Application of all Composition & Mastic	22.50	2.10	4.10	.25	.05
Application of all Epoxy Materials	22.50	2.10	4.10	.25	.05
Application of all Plastic Materials	22.50	2.10	4.10	.25	.05
Finish Colored Concrete	22.50	2.10	4.10	.25	.05
Hand Powerful Grinder	22.50	2.10	4.10	.25	.05
Concrete Mechanism	22.50	2.10	4.10	.25	.05
Tunnel Workers	22.50	2.10	4.10	.25	.05
Group V					
Plasterer	23.28	2.10	4.10	.25	.05

(2/1/85)

-15-

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(2/1/85)

-8-

(AE-ACC)

AGREEMENT BETWEEN THE ALASKA CHAPTER ASSOCIATED GENERAL CONTRACTORS AND
THE ALASKA STATE DISTRICT COUNCIL OF LABORERS AND ITS AFFILIATED LOCAL UNIONS

Foreman: \$1.00 per hour over Group 4
Foreman Foreman: \$1.25 over Group 6
General Foreman: \$2.00 over Group 3.

Union Working Agreement: 32 of gross wages (Subject to I.R.S. taxation.)

PRIVATE WORKS AND RESIDENTIAL RATES

CLASSIFICATION	HOURLY WAGE	PENSION	HEALTH & WELFARE	APPRENTICE TRAINING	PREPARED LEGAL	*ACIAP
Residential	13.00	1.00	2.10	0	0	.05
Private Street & Utility	17.90	1.80	2.10	0	0	.05
Site Work	16.35	1.00	2.10	0	0	.05
Light Commercial	15.65	1.00	2.10	0	0	.05

AGREEMENT BETWEEN
ALASKA CHAPTER
ASSOCIATED GENERAL CONTRACTORS
P. O. BOX 4-2500
ANCHORAGE, ALASKA 99509
AND

INTERNATIONAL UNION OF OPERATING ENGINEERS, LOCAL 302

Hourly wage and fringe benefits effective February 1, 1983 through June 30, 1984.

CLASSIFICATION	BASIC WAGE PER HOUR	PENSION FUND	HEALTH & WELFARE	TRAINING FUND	*ACIAP
GROUP 1	24.47	4.00	2.35	.15	.05
Asphalt Paving					
"A" Frame Trucks, Helicopters, Tramper Trucks, Buck Winches	24.47	4.00	2.35	.15	.05
Double drum	24.47	4.00	2.35	.15	.05
Back Filler					
Batch Plant Operator: batch and miner over 100 yds.	24.47	4.00	2.35	.15	.05
Belts with Power Pack & staller	24.47	4.00	2.35	.15	.05
Bonding Machine	24.47	4.00	2.35	.15	.05
Bullwheels					
Cableways & Highlines, 3 yds and under	24.47	4.00	2.35	.15	.05
Cleaning Machine	24.47	4.00	2.35	.15	.05
Cutting Machine					
Cranes: Shovel, Backhoe, Dragline, Caisson, Shell					
a) Crawler, Truck type, crawler, floating (locomotive, wheeled, either type or under or 150' boom, including jibs and under, or 45 ton & under)	24.47	4.00	2.35	.15	.05
b) Hydraulic	24.47	4.00	2.35	.15	.05
c) Hydrat Cat cranes & attachments, sideboom 45 ton & under	24.47	4.00	2.35	.15	.05
Cranes	24.47	4.00	2.35	.15	.05
Drilling/Trenching machine (16" or over)	24.47	4.00	2.35	.15	.05
Drilling machine, core, cable, rotary, and exploration	24.47	4.00	2.35	.15	.05
Finishing Machine, concrete paving, sidewalk, curb & gutter machine	24.47	4.00	2.35	.15	.05
Spine Ax & staller	24.47	4.00	2.35	.15	.05
Loaders: elevating belt type, Excels and similar types	24.47	4.00	2.35	.15	.05
Loaders:					
a) Forklifts with power boom and swing attachments	24.47	4.00	2.35	.15	.05
b) Overhead & front and 2 1/2 yds through & yds	24.47	4.00	2.35	.15	.05
c) Loaders with forks or pipe clamps	24.47	4.00	2.35	.15	.05
Mechanics, welders, bodymen	24.47	4.00	2.35	.15	.05
Miscellaneous: Mobile type with hoist combination	24.47	4.00	2.35	.15	.05
Motor Patrol Graders: over 14 Working Machines: Mole, Tunnel Drill, and/or Shield	24.47	4.00	2.35	.15	.05

(2/1/83)

AGREEMENT BETWEEN
ALASKA CHAPTER
ASSOCIATED GENERAL CONTRACTORS
P. O. BOX 4-2500
ANCHORAGE, ALASKA 99509
AND

PILEDRIVERS, BRIDGE, DOCK BUILDERS AND DIVERS LOCAL UNION NO. 2320

Hourly wage rates and fringe benefits - effective July 1, 1983 thru June 30, 1984.

CLASSIFICATION	BASIC WAGE PER HOUR	HEALTH & WELFARE	PENSION FUND	APPRENTICE TRAINING	*ACIAP
Piledriver	23.08	1.40	4.50	.20	.05
Piledriver/Tonic Worker	23.98	1.40	4.50	.20	.05
Piledriver Carpenter	23.98	1.40	4.50	.20	.05
Piledriver Carpenter/Tonic Worker	24.23	1.40	4.50	.20	.05
Shift Operator	23.98	1.40	4.50	.20	.05
Shift Operator/Tonic Worker	23.98	1.40	4.50	.20	.05
Certified Welder	24.69	1.40	4.50	.20	.05

Forman: receive twelve & one-half percent (12.5%) above majority of classifications supervised.

General Foreman: receive 15% above majority of classifications supervised.

Sheet Sticker: shall receive \$1.00 per hour above the journeyman rate for actual hours spent staking sheets.

Room and Board: allowance is \$50 per day.

*ACIAP - All signatory employers are obligated to remit 4.05 per compensable hour to the Alaska Construction Industry Advancement Program.

Working Days: Effective October 1, 1982 working days are 4 per cent of the gross wages. Employers will deduct from the wages of each employee such amount of the Union Dues and/or assessments owed by them to the Union, or may be certified by the Union, provided the employee has executed a written assignment calling for such deductions. The Union has agreed to indemnify the Employer for any litigation costs, expenses or liabilities which an employer may incur by compliance with this provision.

Divers Section

Hourly wage rates and fringe benefits - effective July 1, 1983 through June 30, 1984.

CLASSIFICATION	BASIC WAGE PER HOUR	HEALTH & WELFARE	PENSION FUND	APPRENTICE TRAINING
*ACIAP	22.78	1.40	4.50	.20
Assistant Tender	22.78	1.40	4.50	.20
Shift Operator	23.98	1.40	4.50	.20
Tender	24.23	1.40	4.50	.20
Standby Diver	22.96	1.40	4.50	.20
General Diving foreman	25.36	1.40	4.50	.20
Working Diver				

A NEW AGREEMENT HAS NOT BEEN NEGOTIATED AS OF 2/1/83.

(AR-ACC)

(2/1/83)

-4-

(AR-10)

AGREEMENT BETWEEN THE ALASKA CHAPTER, ASSOCIATED GENERAL CONTRACTORS AND THE
INTERNATIONAL UNION OF OPERATING ENGINEERS, LOCAL 302

Continued -

CLASSIFICATION	BASIC WAGE PER HOUR	PENSION FUND	HEALTH & WELFARE	TRAINING FUND	*ACIAP
GROUP II					
Batch Plant Operators: batch & mixer					
200 yds per hr. & under	23.80	4.00	2.35	.15	.05
Boiler-Fireman	23.80	4.00	2.35	.15	.05
Cement Hog & concrete pump operator	23.80	4.00	2.35	.15	.05
Compressors: Steel erection, including sand blasting, painting of same, pile driving	23.80	4.00	2.35	.15	.05
Conveyors (except as listed in Group I)	23.80	4.00	2.35	.15	.05
Hoists on steel erection. Tower- mobiles & Air Tuggers	23.80	4.00	2.35	.15	.05
Loaders, elevating graders, Dumpers & similar	23.80	4.00	2.35	.15	.05
Locomotives: Rod & Geared engines	23.80	4.00	2.35	.15	.05
Mixers	23.80	4.00	2.35	.15	.05
Screening, Plant Service Oilcr, Journeyman	23.80	4.00	2.35	.15	.05
Sideline (cradling rock drill regardless of size)	23.80	4.00	2.35	.15	.05
Skidder	23.80	4.00	2.35	.15	.05
Trenching Machines under 16"	23.80	4.00	2.35	.15	.05
GROUP III					
"A" Trucks, deck winches:					
single drum	23.17	4.00	2.35	.15	.05
Bombardier (rack or tow rig)	23.17	4.00	2.35	.15	.05
Boring Machine	23.17	4.00	2.35	.15	.05
Brooms, Power Vayms, Saginaw and similar types	23.17	4.00	2.35	.15	.05
Bump Cutter (Concvt, Christensen or similar types)	23.17	4.00	2.35	.15	.05
Compressors: Excavating	23.17	4.00	2.35	.15	.05
Drill Belper	23.17	4.00	2.35	.15	.05
Farm Tractor	23.17	4.00	2.35	.15	.05
Forklift, industrial type	23.17	4.00	2.35	.15	.05
Gas Truck or Winch Truck with poles when used for hoisting	23.17	4.00	2.35	.15	.05
Grade Checker and Stake Hopper	23.17	4.00	2.35	.15	.05
Hoists, Air Tuggers, Elevators	23.17	4.00	2.35	.15	.05
Loaders:					
a) Elevating-Athey, Barber Green and similar types	23.17	4.00	2.35	.15	.05
b) Forklift or Lumber carrier (on construction job sites)	23.17	4.00	2.35	.15	.05
c) Forklift with lower	23.17	4.00	2.35	.15	.05
d) Overhead/front end, under 2 1/2 yds	23.17	4.00	2.35	.15	.05
Locomotives: Diesel (Air, steam, gas & electric) spanders	23.17	4.00	2.35	.15	.05
Mechanics: light duty	23.17	4.00	2.35	.15	.05
Mixers: Concrete mixers and batch 200 yds per hour and under	23.17	4.00	2.35	.15	.05

(2/1/85)

-11-

(AR-ACC)

AGREEMENT BETWEEN THE ALASKA CHAPTER, ASSOCIATED GENERAL CONTRACTORS AND THE
INTERNATIONAL UNION OF OPERATING ENGINEERS, LOCAL 302

Continued -

CLASSIFICATION	BASIC WAGE PER HOUR	PENSION FUND	HEALTH & WELFARE	TRAINING FUND	*ACIAP
Oil, Blower Distributors	23.17	4.00	2.35	.15	.05
Pipeline Dream	23.17	4.00	2.35	.15	.05
Pothole Diggers, mechanical	23.17	4.00	2.35	.15	.05
Put Fireman (power agitated)	23.17	4.00	2.35	.15	.05
Power Plant, Turbine Operator, under 300 KW	23.17	4.00	2.35	.15	.05
Pumps:					
a) Puller Canyon	23.17	4.00	2.35	.15	.05
b) Water	23.17	4.00	2.35	.15	.05
Rig Oiler over 45 ton, over 3 yards, or over 150' boom	23.17	4.00	2.35	.15	.05
Rollers, Tampers, Vibrators, all except asphalt	23.17	4.00	2.35	.15	.05
Saws, Concrete	23.17	4.00	2.35	.15	.05
Straightening machine	23.17	4.00	2.35	.15	.05
Tow tractor	23.17	4.00	2.35	.15	.05
GROUP IV					
Rig Oiler (advances to Group III if over 45 tons or 3 yds or 150' boom)	17.75	4.00	2.35	.15	.05
Parts & Equipment Coordinator	17.75	4.00	2.35	.15	.05
Swamp (on trenching machines or shovel type equipment)	17.75	4.00	2.35	.15	.05
Spotter	17.75	4.00	2.35	.15	.05
Steam Cleaner	17.75	4.00	2.35	.15	.05

1. Oiler Foreman to receive 75¢ per hour over Group II.
2. Operator and Mechanic Foreman to receive 75¢ per hour over Group IA.
3. General Foreman and Master Mechanic to receive \$1.50 per hour over Group IA.
4. Mechanic Foreman to receive 50¢ per hour over Group I.
5. Operators working underground to receive a ten percent (10%) premium.
6. Operators to receive a premium of 25¢ per hour when working tar rubber asphalt.

*ACIAP - All signatory employers are obligated to remit \$.05 per compensable hour to the
Alaska Construction Industry Advancement Program.

Union Working Assessment: \$.40 per compensable hour (subject to I.R.S. taxation).

APPRENTICES

	601	701	801	851	901	951
1000 HOURS	157	2ND	3RD	4TH	5TH	6TH
July 1, 1984	\$14.60	\$17.13	\$19.54	\$20.79	\$22.02	\$23.25

PLEASE NOTE: The above amounts apply to all Operating Engineer Apprentices, except for
apprentices indentured prior to 10/1/78 whose rates are higher and will appear on the
dispatch slip. You can call the Apprenticeship Office for rates for those apprentices
who were indentured prior to 10/1/78. The phone number is 561-5044.

The rates for apprentices are based on Group I, Bulldozer Operator scale.

-12-

(AR-ACC)

AGREEMENT BETWEEN THE ALASKA CHAPTER, ASSOCIATED GENERAL CONTRACTORS AND THE
INTERNATIONAL UNION OF OPERATING ENGINEERS, LOCAL 301

Continued -

PRIVATE WORKS AND RESIDENTIAL RATES					
CLASSIFICATION	BASIC WAGE PER HOUR	PENSION FUND	HEALTH & WELFARE	TRAINING FUND	*ACIAP
Residential	15.08	2.00	2.35	.15	.05
Private Street & Utility	20.28	2.00	2.35	.15	.05
Site Work	18.17	2.00	2.35	.15	.05
Light Industrial	21.17	2.00	2.35	.15	.05

(2/1/85)

-13-

(AK-ACC)

AGREEMENT BETWEEN THE ALASKA CHAPTER, ASSOCIATED GENERAL CONTRACTORS AND THE
INTERNATIONAL UNION OF OPERATING ENGINEERS, LOCAL 301

Continued -

CLASSIFICATION	BASIC WAGE PER HOUR	PENSION FUND	HEALTH & WELFARE	TRAINING FUND	*ACIAP
Modwell Soo Cat	24.47	4.00	2.35	.15	.05
Operator on Dredges	24.47	4.00	2.35	.15	.05
Pilodriver Engineer, L.B. Foster, Pulley, or similar, paving bucket	24.47	4.00	2.35	.15	.05
Power plant, turbine operator: 100 KW and over (power plants or power units over 100 KW on highway or airfield construction or quarry operations)	24.47	4.00	2.35	.15	.05
Scourmen-Bagley	24.47	4.00	2.35	.15	.05
Scrapers, Tournapull, Caterpillar, Euclid and similar type equipment over 25 yds through 40 yds	24.47	4.00	2.35	.15	.05
Shot Blast Machine	24.47	4.00	2.35	.15	.05
Spreaders: Blaw Knox, Cedarapids, Screw, Barber Green, Shurly machine	24.47	4.00	2.35	.15	.05
Subgrader (Curries, C.M.I. and C.M.I. Roto Mills and similar types)	24.47	4.00	2.35	.15	.05
Tack tractor	24.47	4.00	2.35	.15	.05
Truck mounted concrete pump	24.47	4.00	2.35	.15	.05
Wate Kote Machine	24.47	4.00	2.35	.15	.05
Wover Craft, Flex Craft, Loadmaster, air cushion, terrain vehicle, helicopter transporters, cableways Holligon, dredge barge-cable, highline or cable car, camp maintenance engineer, boat convience	24.47	4.00	2.35	.15	.05
GROUP 1A					
Cableways and Highlines:	26.01	4.00	2.35	.15	.05
over 3 yds					
Cranes: Shovels, Backhoes, Draglines					
Cran Shells					
a) Crawler, truck type floating locomotives, whirley, either over 3 yds or over 150' boom, including jobs or over 45 tons	26.01	4.00	2.35	.15	.05
b) Tower Cranes, Pecco	26.01	4.00	2.35	.15	.05
c) Hyster Cat Cranes & attachments, sidebooms over 45 tons	26.01	4.00	2.35	.15	.05
Loaders over 4 yds	26.01	4.00	2.35	.15	.05
Motor Patrol Grader (when finishing to final grades and/or to hubs, or for asphalt)	26.01	4.00	2.35	.15	.05
Power Plants:	26.01	4.00	2.35	.15	.05
a) 1000 KW and over	26.01	4.00	2.35	.15	.05
Quad					
Slip form paver, C.M.I. and similar types	26.01	4.00	2.35	.15	.05
Tournapulls, Caterpillar, Euclid Scrapers and similar type equipment over 40 yds	26.01	4.00	2.35	.15	.05

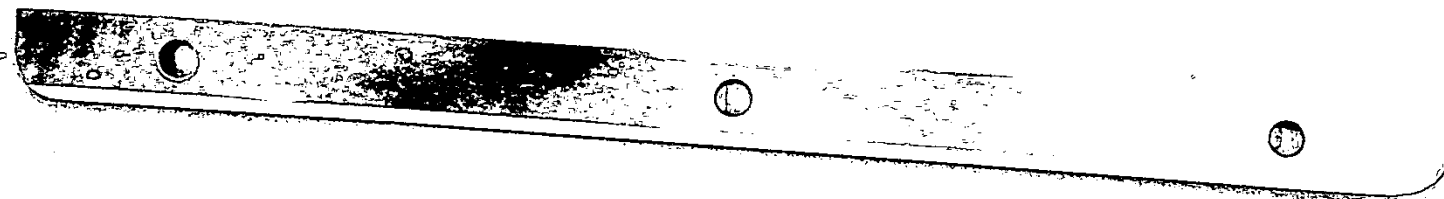
(2/1/85)

-10-

(AK-ACC)

003567

WORK SHEET



DIVERSIFIED CONSTRUCTORS, INC.

OPERATION CREW COMPOSITION AND
PRODUCTION

ITEM NO

SHEET 1 OF 21 PAGE

JOB WATKINS ; DEVIL CANYON

QUANTITY

UNIT

EST BY

CK'D BY

DATE

FORM 2		LABOR	EQUIPMENT	SUPPLIES
<u>FABRICATE FORMS</u>				
<u>SPREAD</u>				
4-CARPENTERS		144.56	10.00	8.50
3-LABORERS		98.82		7.50
1-SAWMAN		37.14		
1/8-OPERATOR		4.79		
1/2-4MAN		20.01		
1/2-TEAMSTER		17.89		
1/8-HYDRA CRANE		2.08	1.40	1.98
1/2-PICKUP		1.28	0.49	2.86
1/2-FLATBED		2.14	2.08	5.52
1-MISC.		1.50	3.00	4.00
COST PER HOUR		330.21	16.97	30.36
<u>SUMMARY</u>		<u>TOTAL</u>		
DIRECT LABOR		323.21		
SUPPLIES		16.00		
REPAIR LABOR		7.00		
EQUIPMENT		16.97		
EQUIP. SUPPLIES		14.36		
		377.54		
<u>PRODUCTION</u>				
STRAIGHT PANELS	16	S.F. PER CREW	CARPENTER HOUR	
CURVED PANELS	6	"	"	"
DRAFT TUBES	2	"	"	"
COLUMNS & PIERS	8	"	"	"
BENMS	10	"	"	"
MISCELLANEOUS	4	"	"	"
FORM LUMBER AT WEIGHTED AVERAGE COST OF \$3.00 /S.F.				

DIVERSIFIED CONSTRUCTORS, INC.

OPERATION

ITEM NO.

SHEET 2 OF 21 PAGE

JOB

QUANTITY

UNIT

EST BY

CN'D BY

DATE

FORM 2

		DIRECT LABOR	SUPPLIES	REPAIR LABOR	INSTRUMENT	EQUIP. SUPPLIES
64	STRAIGHT PANELS	5.05	3.25	0.10	0.26	0.22
			8.88			
24	CURVED PANELS	13.46	3.66	0.24	0.70	0.59
			18.70			
8	DRAFT TUBES	40.40	5.00	0.87	2.12	1.79
			50.18			
32	COLUMNS & PIERS	10.10	3.50	0.21	0.53	0.44
			14.78			
40	BEAMS	8.08	3.40	0.17	0.42	0.35
			12.42			
16	MISCELLANEOUS	20.20	4.00	0.43	1.06	0.89
			26.58			

DIVERSIFIED CONSTRUCTORS, INC.

OPERATION _____ ITEM NO _____ SHEET 5 OF 21 PAGE _____
 QUANTITY _____ UNIT _____ EST BY _____ JOB _____
 FORM 2 _____ CND BY _____ DATE _____

	LABOR	EQUIPMENT	SUPPLIES
<u>ERECT FORMS - TOWER CRANE</u>			
6- CARPENTERS	216.84		10.00
3- LABORERS	98.32		
1/2- OPERATOR	19.17		
1/2- OILER	18.32		
1/2- 4 MAN	20.01		
1/2- TOWER CRANE	16.71	28.65	24.26
1/2- PICKUP	12.28	0.48	2.85
COST PER HOUR	391.15	29.13	37.11
<u>PRODUCTION</u>			
FIGURE A WEIGHTED AVERAGE OF 8 S.F. PER CARPENTER HOUR OR 48 S.F. PER CREW HOUR			
<u>SUMMARY</u>	<u>TOTAL</u>	<u>UNIT PRICE</u>	
DIRECT LABOR	373.16	7.77	
SUPPLIES	10.00	0.20	
REPAIR LABOR	17.99	0.37	
EQUIPMENT	29.13	0.60	
EQUIP. SUPPLIES	28.11	0.56	
	457.39	9.50	

DIVERSIFIED CONSTRUCTORS, INC.

OPERATION

ITEM NO

SHEET 4 OF 21 PAGE

FORM 2

QUANTITY

UNIT

EST BY

JOB

CK'D BY

DATE

ERECT FORMS - TRUCK CRANE

6 CARPENTERS

216.34

10.00

3 LABORERS

98.82

1/2 OPERATOR

19.17

1/2 OILER

18.32

1/2 HUMAN

20.01

1/2 TRUCK CRANE

16.07

21.38

18.17

1/2 PICKUP

12.28

0.48

2.85

COST PER HOUR

390.51

21.86

51.02

PRODUCTION

FIGURE A YIELDING AVERAGE

OF 8 S.F. PER CARPENTER HOUR

OR 48 S.F. PER CREW HOUR

SUMMARY

TOTAL

UNIT PRICE

DIRECT LABOR

375.16

7.77

SUPPLIES

10.00

0.21

REPAIR LABOR

17.35

0.36

EQUIPMENT

21.86

0.46

EQUIP. SUPPLIES

21.02

0.44

443.59

9.24

DIVERSIFIED CONSTRUCTORS, INC.

OPERATION

ITEM NO

SHEET 5 OF 21 PAGE

JOB

QUANTITY

UNIT

EST BY

CR D BY

DATE

FORM 2

STRIP FORMS - TOWER CRANE

6- LABORERS

200.22

10.00

2- CARPENTERS

72.28

1/2- OPERATOR

17.77

1/2- OILER

18.32

1/2- 4MAN

17.77

1/2- TOWER CRANE

16.71

28.65

24.26

1/2- PICKUP

14.28

0.48

2.85

COST PER HOUR

345.75

29.13

37.11

PRODUCTION

- FIGURE A WEIGHTED AVERAGE
- PRODUCTION OF 16 SF. PER
- LABOR MANHOUR OR 96 SF.
- PER CREW HOUR.

SUMMARY

TOTAL

UNIT PRICE

DIRECT LABOR

327.16

3.41

SUPPLIES

10.00

0.10

REPAIR LABOR

17.99

0.19

EQUIPMENT

29.13

0.30

EQUIP. SUPPLIES

27.11

0.28

411.99

4.28

DIVERSIFIED CONSTRUCTORS, INC.

OPERATION

ITEM NO.

SHEET 6 OF 21 PAGE

QUANTITY

UNIT

EST BY

JOB

CK'D BY

DATE

FORM 2

STRIP FORMS - TRUCK CRANE

	LABOR	EQUIPMENT	SUPPLIES
6 LABORERS	200.02		10.00
2 CARPENTERS	72.18		
1/2 OPERATOR	19.17		
1/2 OILER	18.32		
1/2 HUMAN	17.11		
1/2 TRUCK CRANE	16.07	21.38	18.17
1/2 PICKUP	1.23	0.48	2.85
COST PER HOUR	345.11	21.86	31.02

PRODUCTION

FIGURE A WEIGHTED AVERAGE
PRODUCTION OF 16 SF. PER
LABOR MANHOUR OR 96 SF.
PER CREW HOUR.

SUMMARY

	TOTAL	UNIT PRICE
DIRECT LABOR	327.16	3.41
SUPPLIES	10.00	0.10
REPAIR LABOR	17.35	0.18
EQUIPMENT	21.86	0.23
EQUIP. SUPPLIES	21.02	0.22
	397.99	4.14

DIVERSIFIED CONSTRUCTORS, INC.

OPERATION

ITEM NO.

SHEET 7 OF 21 PAGE

JOB

QUANTITY

UNIT

EST BY

CKD BY

DATE

FORM 2

	LABOR	EQUIPMENT	SUPPLIES
<u>FINISH CONCRETE</u>			
2. FINISHERS	70.96		10.00
1. FINISHER HELPER	33.37		
1/2. FINISHER 4 MAN	19.15		
1/2. PICKUP	1.28	2.48	2.85
1. MISC.	6.00	9.00	8.50
COST PER HOUR	130.66	9.48	21.35
<u>PRODUCTION</u>			
FIGURE A WEIGHTED AVERAGE PRODUCTION OF 120 SF. PER CREW HOUR.			
<u>SUMMARY</u>	<u>TOTAL</u>	<u>UNIT PRICE</u>	
DIRECT LABOR	123.38	1.02	
SUPPLIES	10.00	0.08	
REPAIR LABOR	7.28	0.06	
EQUIPMENT	9.48	0.07	
EQUIP. SUPPLIES	11.35	0.09	
	161.49	1.32	
<u>POINT & PATCH</u>			
80 % OF CONCRETE FINISH UNIT PRICES			
<u>SUMMARY</u>	<u>UNIT PRICE</u>		
DIRECT LABOR	0.81		
SUPPLIES	0.36		
REPAIR LABOR	0.04		
EQUIPMENT	0.05		
EQUIP. SUPPLIES	0.07		
	1.33		

DIVERSIFIED CONSTRUCTORS, INC.

OPERATION

ITEM NO

SHEET 8 OF 21 PAGE

JOB

QUANTITY

UNIT

EST BY

CR. D. BY

DATE

FORM 2

CONSTRUCTION JOINT CLEANUP

1- AIR WATER BLASTER

15.86

12.32

25.15

1- NOZZLEMAN

32.47

1- HOSE TENDER

65.88

2- CLEANUP MEN

37.47

1- OPERATOR

COST PER HOUR

181.04

12.32

35.15

PRODUCTION

FIGURE A WEIGHTED AVERAGE
OF 150 S.F. / CREW HOUR

SUMMARY

TOTAL

UNIT PRICE

DIRECT LABOR

170.13

1.13

SUPPLIES

10.00

0.07

REPAIR LABOR

15.86

0.11

EQUIPMENT

12.32

0.08

EQUIP. SUPPLIES

25.15

0.17

233.51

1.56

ROCK CLEANUP

SAME SPREAD AS CONSTRUCTION
JOINT CLEANUP

PRODUCTION

75 S.F. / CREW HOUR

SUMMARY

UNIT PRICE

DIRECT LABOR

2.87

SUPPLIES

0.13

REPAIR LABOR

0.21

EQUIPMENT

0.16

EQUIP. SUPPLIES

0.34

3.11

DIVERSIFIED CONSTRUCTORS, INC.

OPERATION

ITEM NO.

SHEET 9 OF 21 PAGE

JOB

QUANTITY

UNIT

EST BY

C&D BY

DATE

FORM 2

	LABOR	EQUIPMENT	SUPPLIES
<u>PLACE CONCRETE - TOWER CRANE</u>			
1- TOWER CRANE	33.73	57.31	48.53
2- CONCRETE BUCKETS	3.46	6.07	3.18
1- PICKUP	2.87	0.97	5.71
1- MISC.	2.30	3.30	2.75
1- OPERATOR	38.34		
1- DILER	31.65		
4- LABORERS	133.13		10.00
1- HUMAN	35.53		
COST PER HOUR	286.26	67.65	70.77
PRODUCTION AT 40 CU. YDS. PER HOUR.			
<u>SUMMARY</u>	<u>TOTAL</u>	<u>UNIT PRICE</u>	
DIRECT LABOR	244.00	6.10	
SUPPLIES	10.00	0.25	
REPAIR LABOR	42.26	1.06	
EQUIPMENT	67.65	1.69	
EQUIP. SUPPLIES	60.77	1.52	
	424.68	10.62	
PRODUCTION AT 30 CU. YDS. PER HOUR.			
<u>SUMMARY</u>	<u>TOTAL</u>	<u>UNIT PRICE</u>	
DIRECT LABOR		8.13	
SUPPLIES	AS	0.33	
REPAIR. LABOR	ABOVE	1.41	
EQUIPMENT		2.26	
EQUIP. SUPPLIES.		2.03	
		14.16	

DIVERSIFIED CONSTRUCTORS, INC.

OPERATION

ITEM NO.

SHEET 10 OF 21 PAGE

QUANTITY

UNIT

EST BY

JOB

CKD BY

DATE

FORM 2

	LABOR	EQUIPMENT	SUPPLIES
<u>PLACE CONCRETE - MISC. STRUCTURES</u>			
1. 150 I CRANE	32.15	12.77	36.34
2. CONCRETE BUCKETS	3.97	6.07	3.78
1. PICKUP	2.57	0.97	5.71
1. MISC.	2.30	3.30	2.75
1. OPERATOR	40.33		
1. OILER	36.25		
4. LABORERS	133.45		10.00
1. HUMAN	35.53		
COST PER HOUR	286.98	53.11	58.58
PRODUCTION AT 40 C.YOS. PER HOUR			
<u>SUMMARY</u>	<u>TOTAL</u>	<u>UNIT PRICE</u>	
DIRECT LABOR	245.99	6.15	
SUPPLIES	10.00	0.25	
REPAIR LABOR	40.79	1.02	
EQUIPMENT	53.11	1.33	
EQUIP. SUPPLIES	48.58	1.21	
	398.67	9.96	
PRODUCTION AT 30 C.YOS. PER HOUR			
<u>SUMMARY</u>	<u>TOTAL</u>	<u>UNIT PRICE</u>	
DIRECT LABOR		8.20	
SUPPLIES	AS	0.33	
REPAIR LABOR	ABOVE	1.37	
EQUIPMENT		1.77	
EQUIP. SUPPLIES.		1.62	
		13.29	

003567

DIVERSIFIED CONSTRUCTORS, INC.

OPERATION

ITEM NO.

SHEET 11 OF 21 PAGE

QUANTITY

UNIT

EST BY

JOB

CAD BY

DATE

FORM 2

PRODUCTION AT 20 CU.YDS. PER HOUR

SUMMARY

DIRECT LABOR
SUPPLIES
REPAIR LABOR
EQUIPMENT
EQUIP. SUPPLIES

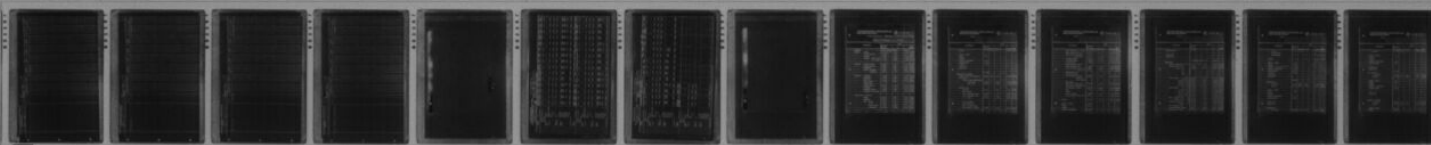
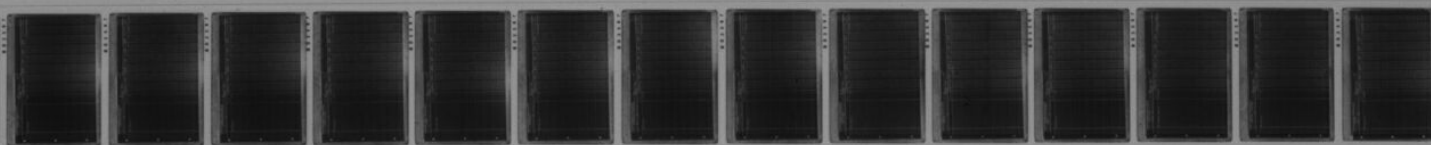
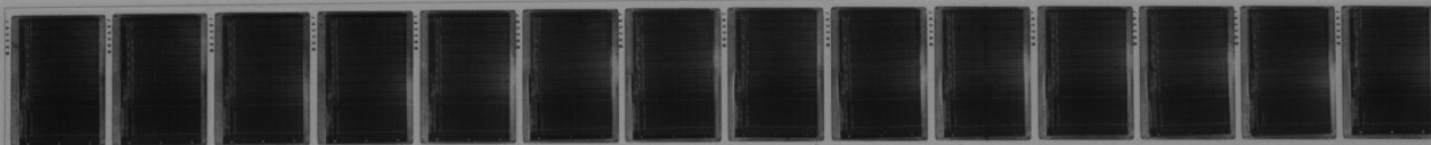
TOTAL	UNIT PRICE
125	18.30
SHEET	0.50
10	2.25
	2.66
	2.43
	19.94

PRODUCTION AT 10 CU.YDS. PER HOUR

SUMMARY

DIRECT LABOR
SUPPLIES
REPAIR LABOR
EQUIPMENT
EQUIP. SUPPLIES

TOTAL	UNIT PRICE
25	24.60
SHEET	1.00
10	4.10
	5.31
	4.86
	39.87



DIVERSIFIED CONSTRUCTORS, INC.

OPERATION

ITEM NO

SHEET 12 OF 21 PAGE

JOB

QUANTITY

UNIT

EST BY

CND BY

DATE

FORM 2

PLACE CONCRETE - PUMPED

1- CONCRETE PUMP

1- MISC

1- PICKUP

1- OPERATOR

5- LABORERS

1- HMAN

COST PER HOUR

PRODUCTION

FIGURE 30 CU. YDS. PER HOUR

SUMMARY

DIRECT LABOR

SUPPLIES

REPAIR LABOR

EQUIPMENT

EQUIP. SUPPLIES.

TOTAL UNIT PRICE

240.72

8.02

12.50

0.42

19.17

0.64

15.84

0.53

39.97

1.33

828.20

10.94

LABOR EQUIPMENT SUPPLIES

13.71

9.37

26.01

2.89

5.50

8.25

2.57

0.97

5.71

28.34

166.85

18.50

35.53

259.89

15.84

52.47

DIVERSIFIED CONSTRUCTORS, INC.

OPERATION *CONCRETE PLACEMENT*

ITEM NO

SHEET *13* OF *21* PAGE

JOB *XIATHNA I + III*

QUANTITY

UNIT

EST BY

CK'D BY

DATE

FORM 2

OVERSHEET

Notes

ITEM	DESCRIPTION	NEAT	+ WASTE	TOTAL	POUR RATE
331.114	POWERHOUSE	43,430	369	44,299	30 1477
2127	PORTAL	600	30	630	20 32
1128	TUNNEL SLAB	8,775	189	5964	20 198
1129	PENSTOCK ACCESS PLUG	11,913	226	11,539	30 385
1134	ACCESS SHAFT TUNNEL LINING	2,777	790	3767	30 126
1154	BUS TUNNEL SLAB	350	18	368	20 18
1164	TRANSFORMER GALLERY	2,225	792	3017	30 101
1174	BUS SHAFT LINING	476	342	818	20 41
332.208	DIVERSION TUNNEL TUNNEL LINING	47,254	16,389	63,643	40 1591
209	TUNNEL LINING	6,168	2120	8288	40 207
210	PORTAL CONCRETE	18,525	463	18988	40 475
211	MASS CONCRETE	200	5	205	20 10
212	FLIP BUCKET	2,000	50	2050	30 68
213	EMER. RELEASE CHAIN	15,300	383	15683	30 523
215	LOWER DIV. PLUG	5,570	139	5709	40 143
215	" " "	565	14	579	40 14
325	DENTAL	73,010	0	73010	40 1825
336	TUNNEL SLABS	2,590	62	2652	30 88
337	PORTAL CONCRETE	20	2	22	15 3
338	TUNNEL PLUG 28'4"	505	25	530	30 18
514	TUNNEL LINING 28'4"	8,096	2898	10994	40 275
515	" " 28'4"	1,931	675	2606	40 65
516	" " 28'4"	2,779	717	3496	10 347
517	" " 28'4"	1,748	626	2374	30 79
5221	SPILLWAY - PIERS	42,430	1491	43921	30 1464
5222	" - DECK	700	12	712	20 36
5223	" - GUIDE WALLS	66,770	11618	78388	30 2619
5224	" - SLAB	29,470	59	29529	30 984
5225	" - GEE	267,150	4809	271959	30 9065
5226	" FLIP BUCKET FOOTLET DISCH.	28,300	708	29008	40 725
5227	" DRAIN AERATION LAMIN	2,910	73	2983	30 99
5228	" GRAVITY RETAINING WALL FLIP BUCKET	1,000	25	1025	20 51
614	POWER & OUTLET INTAKE & APPROACH VENT SHAFT	223,910	4926	228836	40 5721
714	TUNNEL LINING	79	45	124	10 12
716	SURGE CHAMBER	6670	167	6837	30 228
816	PENSTOCK-SHAFT	6,132	2274	8406	30 280
817	" - HORIZ	5,541	1906	7447	40 186

DIVERSIFIED CONSTRUCTORS, INC.

SHEET 14 OF 21 PAGE

OPERATION

ITEM NO

JOB

CK'D BY

DATE

QUANTITY

UNIT

EST BY

OVERBREAK

HOURS

FORM 2	ITEM	DESCRIPTION	NEAT	WASTE	TOTAL	POUR RATE
	725 LF	818 PENSTOCK - HORIZ	2,465	728	3,193	40
	1230 LF	819 " "	3,542	1,725	5,267	40
	2580 LF	914 TAILRACE LINING	15,970	5,650	21,620	40
		915 PORTAL	300	12	312	20
			154,516		101,871	3026

AVERAGE POUR RATE = 33.66 CYD. / HOUR

CONCRETE CURE

1. PICKUP

2. LABORERS

COST PER HOUR

LABOR	EQUIPMENT	SUPPLIES
2.57	0.97	5.71
66.74		10.00
69.31	0.97	15.71

PER CY. Yd.

6.35

0.95

0.24

0.09

0.54

8.17

SUMMARY

DIRECT LABOR

SUPPLIES

REPAIR LABOR

EQUIPMENT

EQUIP. SUPPLIES

COST/HOUR	HOURS	TOTAL
66.74	90780	6058651
10.00	"	907800
2.57	"	233301
0.97	"	86051
5.71	"	518353
85.99		7806173

3026 DAYS - POURING
 3026 " - SETUP FOR CURE
 3026 " - REMOVE
 9078 DAYS (IN) = 90780 HOURS.

DIVERSIFIED CONSTRUCTORS, INC.

OPERATION

ITEM NO.

SHEET 15 OF 21 PAGE

JOB

QUANTITY

UNIT

EST BY

CK'D BY

DATE

FORM 2

DRILLING & SETTING ROCK BOLTS

ASSUME 6 FEET INTO ROCK
USE AIR TRAC AT 45 L.F./HOUR.

50 MINUTE HOUR

45 L.F./HOUR = 1.11 L.F./MINUTE (6) = 6.66 (SAY 7 MINUTE DRILL TIME PER HO

CYCLE TIME

SET UP 1.50 MINUTES
DRILL 7.00 "
RETRACT 1.00 "
MOVE 2.00 "

11.50 MINUTES PER HOLE

50 MINUTE HOUR

11.50 MIN./HOLE = 4.35 HOLES/HOUR

SPREAD

1- AIR TRAC
1- 600 CFM COMPRESSOR
1- PICKUP
1- DRILLER
1- CHUCKTENDER
1- ROCK BOLTER

COST PER HOUR

LABOR	EQUIPMENT	SUPPLIES
32.15	8.22	10.85
12.00	6.61	14.95
2.57	0.97	5.71
34.57		
33.89		
33.37		7.50
148.55	15.80	39.01

EACH

L.F.

SUMMARY

DIRECT LABOR
SUPPLIES
REPAIR LABOR
EQUIPMENT
EQUIP. SUPPLIES
PERM. MATERIAL

TOTAL	UNIT PRICE	UNIT PRICE
101.83	23.41	3.90
7.50	1.72	0.29
46.72	10.74	1.79
15.80	3.63	1.61
31.51	7.24	1.21
	19.25	3.20
203.36	65.99	11.00

DIVERSIFIED CONSTRUCTORS, INC.

OPERATION CONCRETE AND AGGREGATE
PRODUCTION

ITEM NO.

SHEET 16 OF 21 PAGE

JOB

QUANTITY

UNIT

EST BY

CAD BY

DATE

FORM 2

CONCRETE

FROM PAGE 14 - 1,018,471 CU. YDS.

AGGREGATE

GRADATION OF RAW MATERIAL
UNKNOWN. PLAY IT SAFE AND
FIGURE ON PROCESSING 2 CU. YDS.
TO GET 1 CU. YD. OF SPEC. MATERIAL

1,018,471 (1.3) (2) (1.62) = 4,289,800 TONS

FIGURE PLANT CAPACITY AT
150 TONS/HOUR = 28,600 HOURS.

SPREAD

LABOR EQUIPMENT SUPPLIES

1- PLANT	86.59	34.35	60.71
1- DB DOZER	42.37	25.91	33.95
1- DRAGLINE	32.15	42.77	36.94
1- 98B FEL R/L = 245.61	32.15	33.00	45.85
2- 769 END SALLS	47.14	63.00	64.82
1- 300 AMP WELDER	2.14	0.81	1.42
1- PICKUP	2.57	0.97	5.71
1- PLANT OPERATOR	38.34		
1- PLANT OILER	36.65		
1- F.E.L. OPERATOR	40.33		
1- DOZER OPERATOR	38.34		
2- TEAMSTERS	76.38		
2- PLANT LABORERS	65.88		750.
1- DRAGLINE-OPERATOR	40.33		
1- " OILER	36.65		
1- 411IAN	42.27		

COST PER HOUR

COST 28,600 HOURS.

660.78	200.81	261.20
18898308	5743166	7470320

DIVERSIFIED CONSTRUCTORS, INC.

OPERATION

ITEM NO.

SHEET 17 OF 21 PAGE

JOB

CK'D BY

DATE

QUANTITY

UNIT

EST BY

FORM 2

FORM 2		QUANTITY	UNIT	CONCRETE	TON
SUMMARY		TOTAL	UNIT PRICE	UNIT PRICE	
DIRECT LABOR	11873562		11.65	2.77	
SUPPLIES	214500		0.21	0.05	
REPAIR LABOR	702446		6.90	1.64	
EQUIPMENT	5743166		5.64	1.34	
EQUIP. SUPPLIES	7255820		7.12	1.69	
	32111744		31.52	7.49	

003567

DIVERSIFIED CONSTRUCTORS, INC.

OPERATION

ITEM NO.

SHEET 18 OF 21 PAGE

JOB

CR'D BY

DATE

QUANTITY

UNIT

EST BY

FORM 3

PLANT ERECTION

SUPPLIES (ALLOW)

198552

ALLOW 100 HOURS TO SET UP
AND 60 HOURS TO TAKE DOWN =

160 HOURS

SPREAD

LABOR EQUIPMENT SUPPLIES

- 1. 100T CRANE
- 1. LO BOY
- 1. DB DOZER R/L = 91.72
- 2. 300 AMP WELDERS
- 1. PICKUP
- 1. CRANE OPERATOR
- 1. " OILER
- 1. TEAMSTER
- 1. DOZER OPERATOR
- 2. PLANT OPERATORS
- 2. PLANT OILERS
- 2. H.O. MECHANICS
- 2. LABORERS
- 1. 4 MAN

27.00	25.00	27.46
15.00	11.00	14.07
42.87	25.91	33.85
4.28	1.62	12.84
2.57	0.97	5.71
40.33		
36.65		
34.55		
38.34		
71.68		
73.30		
71.96		
65.88		10.00
42.27		

COST PER HOUR

582.68 64.50 103.93

COST 160 HOURS

93229 10320

SUMMARY

- DIRECT LABOR
- SUPPLIES
- REPAIR LABOR
- EQUIPMENT
- EQUIP. SUPPLIES.

TOTAL	UNIT PRICE	UNIT PRICE
78554	0.08	0.02
200152	0.20	0.05
14275	0.01	0.01
10320	0.01	0.01
15029	0.01	0.01
318730	0.31	0.10

DIVERSIFIED CONSTRUCTORS, INC.

SHEET 19 OF 21 PAGE

OPERATION

ITEM NO.

JOB

CK'D BY

DATE

QUANTITY

UNIT

EST BY

FORM 2

TOTAL AGGREGATE PRODUCTION

SUMMARY

DIRECT LABOR
SUPPLIES
REPAIR LABOR
EQUIPMENT
EQUIP. SUPPLIES

TOTAL	CONCRETE	TOTAL
	UNIT PRICE	UNIT PRICE
11952416	11.73	2.79
414652	0.41	0.10
7039121	6.91	1.65
5753486	5.65	1.35
7270349	2.13	1.70
32430524	31.83	7.59

DIVERSIFIED CONSTRUCTORS, INC.

OPERATION *CONCRETE PRODUCTION*

ITEM NO

SHEET 20 OF 21 PAGE

JOB

CND BY

DATE

QUANTITY

UNIT

EST BY

FORM 2

*SHEET 14 - 30260 HOURS
PLANT OPERATION*

AVERAGE HOURLY PRODUCTION = 33.66 C.Y.S.

SPREAD

*1- PLANT
1- 966 FEL R/L - 130.68
1- 300 AMP WELDER
3- REGI-MIX TRUCKS
1- PICKUP
1- PLANT OPERATOR
1- " OILER
1- " LABORER
1- FEL OPERATOR
3- TEAMSTERS
1- 500 KW GENERATOR*

LABOR EQUIPMENT SUPPLIES

<i>30.00</i>	<i>28.01</i>	<i>10.99</i>
<i>17.14</i>	<i>17.80</i>	<i>26.63</i>
<i>2.14</i>	<i>0.81</i>	<i>6.42</i>
<i>42.68</i>	<i>28.86</i>	<i>42.57</i>
<i>2.57</i>	<i>0.97</i>	<i>5.11</i>
<i>38.34</i>		
<i>36.65</i>		
<i>32.94</i>		<i>5.00</i>
<i>38.34</i>		
<i>114.57</i>		
<i>35.15</i>	<i>12.32</i>	<i>32.14</i>

COST PER HOUR

891.52 88.77 129.46

COST 30260 HOURS

118473.95 2686.180 39174.60

STANDBY TIME

*1- PLANT OPERATOR
1- " OILER*

*38.34
36.65*

COST PER HOUR

74.99

COST 7565 HOURS

5672.99

DIVERSIFIED CONSTRUCTORS, INC.

OPERATION

ITEM NO.

SHEET 21 OF 21 PAGE

JOB

QUANTITY

UNIT

EST BY

GR DWS

DATE

FORM 2

CONCRETE PLANT SET-UP AND
TAKE DOWN

SUPPLIES 30000

USE SAME SPREAD AS SHEET
18 AND ALLOW 60 HOURS TO
SET-UP AND 40 HOURS TO
TAKE DOWN.

COST PER HOUR

LABOR EQUIPMENT SUPPLIES

58268 6450 10893

COST 100 HOURS

58268 6450 10893

SUMMARY

TOTAL

DIRECT LABOR

49096

SUPPLIES

31000

REPAIR LABOR

9172

EQUIPMENT

6450

EQUIP. SUPPLIES

7293

105111

TOTAL CONCRETE PRODUCTION

SUMMARY

TOTAL

PORT. MIX

PORT. MIX

UNIT PRICE

UNIT PRICE

DIRECT LABOR

8500241

8.35

20.00

SUPPLIES

182300

0.18

0.39

REPAIR LABOR

3963549

3.89

10.77

EQUIPMENT

2692630

2.64

8.28

EQUIP. SUPPLIES

3775553

3.71

10.83

19114213

18.77

50.29

CEMENT AT \$162.00 PER TON

