

# How to Use the City Cost Indexes

## What you should know before you begin

RSMeans City Cost Indexes (CCI) are an extremely useful tool for when you want to compare costs from city to city and region to region.

This publication contains average construction cost indexes for 731 U.S. and Canadian cities covering over 930 three-digit zip code locations, as listed directly under each city.

Keep in mind that a City Cost Index number is a percentage ratio of a specific city's cost to the national average cost of the same item at a stated time period.

In other words, these index figures represent relative construction factors (or, if you prefer, multipliers) for material and installation costs, as well as the weighted average for Total In Place costs for each CSI MasterFormat division. Installation costs include both labor and equipment rental costs. When estimating equipment rental rates only for a specific location, use 01 54 33 EQUIPMENT RENTAL COSTS in the Reference Section.

The 30 City Average Index is the average of 30 major U.S. cities and serves as a national average.

Index figures for both material and installation are based on the 30 major city average of 100 and represent the cost relationship as of July 1, 2015. The index for each division is computed from representative material and labor quantities for that division. The weighted average for each city is a weighted total of the components listed above it. It does not include relative productivity between trades or cities.

As changes occur in local material prices, labor rates, and equipment rental rates (including fuel costs), the impact of these changes should be accurately measured by the change in the City Cost Index for each particular city (as compared to the 30 city average).

Therefore, if you know (or have estimated) building costs in one city today, you can easily convert those costs to expected building costs in another city.

In addition, by using the Historical Cost Index, you can easily convert national average building costs at a particular time to the approximate building costs for some other time. The City Cost Indexes can then be applied to calculate the costs for a particular city.

## Quick calculations

**Location Adjustment Using the City Cost Indexes:**

$$\frac{\text{Index for City A}}{\text{Index for City B}} \times \text{Cost in City B} = \text{Cost in City A}$$

**Time Adjustment for the National Average Using the Historical Cost Index:**

$$\frac{\text{Index for Year A}}{\text{Index for Year B}} \times \text{Cost in Year B} = \text{Cost in Year A}$$

**Adjustment from the National Average:**

$$\frac{\text{Index for City A}}{100} \times \text{National Average Cost} = \text{Cost in City A}$$

Since each of the other RSMeans data sets contain many different items, any *one* item multiplied by the particular city index may give incorrect results. However, the larger the number of items compiled, the closer the results should be to actual costs for that particular city.

The City Cost Indexes for Canadian cities are calculated using Canadian material and equipment prices and labor rates in Canadian dollars. Therefore, indexes for Canadian cities can be used to convert U.S. national average prices to local costs in Canadian dollars.

## How to use this section

### 1. Compare costs from city to city.

In using the RSMeans Indexes, remember that an index number is not a fixed number but a ratio: It's a percentage ratio of a building component's cost at any stated time to the national average cost of that same component at the same time period. Put in the form of an equation:

$$\frac{\text{Specific City Cost}}{\text{National Average Cost}} \times 100 = \text{City Index Number}$$

Therefore, when making cost comparisons between cities, do not subtract one city's index number from the index number of another city and read the result as a percentage difference. Instead, divide one city's index number by that of the other city. The resulting number may then be used as a multiplier to calculate cost differences from city to city.

The formula used to find cost differences between cities for the purpose of comparison is as follows:

$$\frac{\text{City A Index}}{\text{City B Index}} \times \text{City B Cost (Known)} = \text{City A Cost (Unknown)}$$

In addition, you can use RSMeans CCI to calculate and compare costs division by division between cities using the same basic formula. (Just be sure that you're comparing similar divisions.)

### 2. Compare a specific city's construction costs with the national average.

When you're studying construction location feasibility, it's advisable to compare a prospective project's cost index with an index of the national average cost.

For example, divide the weighted average index of construction costs of a specific city by that of the 30 City Average, which = 100.

$$\frac{\text{City Index}}{100} = \% \text{ of National Average}$$

**As a result, you get a ratio that indicates the relative cost of construction in that city in comparison with the national average.**

### 3. Convert U.S. national average to actual costs in Canadian City.

$$\frac{\text{Index for Canadian City}}{100} \times \text{National Average Cost} = \text{Cost in Canadian City in \$ CAN}$$

#### 4. Adjust construction cost data based on a national average.

When you use a source of construction cost data which is based on a national average (such as RSMeans cost data), it is necessary to adjust those costs to a specific location.

$$\frac{\text{City Index}}{100} \times \text{Cost Based on National Average Costs} = \text{City Cost (Unknown)}$$

5. When applying the City Cost Indexes to demolition projects, use the appropriate division installation index. For example, for removal of existing doors and windows, use the Division 8 (Openings) index.

## What you might like to know about how we developed the Indexes

The information presented in the CCI is organized according to the Construction Specifications Institute (CSI) MasterFormat 2014 classification system.

To create a reliable index, RSMeans researched the building type most often constructed in the United States and Canada. Because it was concluded that no one type of building completely represented the building construction industry, nine different types of buildings were combined to create a composite model.

The exact material, labor, and equipment quantities are based on detailed analyses of these nine building types, and then each quantity is weighted in proportion to expected usage. These various material items, labor hours, and equipment rental rates are thus combined to form a composite building representing as closely as possible the actual usage of materials, labor, and equipment in the North American building construction industry.

The following structures were chosen to make up that composite model:

1. Factory, 1 story
2. Office, 2-4 stories
3. Store, Retail
4. Town Hall, 2-3 stories
5. High School, 2-3 stories
6. Hospital, 4-8 stories
7. Garage, Parking
8. Apartment, 1-3 stories
9. Hotel/Motel, 2-3 stories

For the purposes of ensuring the timeliness of the data, the components of the index for the composite model have been streamlined. They currently consist of:

- specific quantities of 66 commonly used construction materials;
- specific labor-hours for 21 building construction trades; and
- specific days of equipment rental for 6 types of construction equipment (normally used to install the 66 material items by the 21 trades.) Fuel costs and routine maintenance costs are included in the equipment cost.

A sophisticated computer program handles the updating of all costs for each city on a quarterly basis. Material and equipment price quotations are gathered quarterly from cities in the United States and Canada. These prices and the latest negotiated labor wage rates for 21 different building trades are used to compile the quarterly update of the City Cost Index.

The 30 major U.S. cities used to calculate the national average are:

Atlanta, GA	Memphis, TN
Baltimore, MD	Milwaukee, WI
Boston, MA	Minneapolis, MN
Buffalo, NY	Nashville, TN
Chicago, IL	New Orleans, LA
Cincinnati, OH	New York, NY
Cleveland, OH	Philadelphia, PA
Columbus, OH	Phoenix, AZ
Dallas, TX	Pittsburgh, PA
Denver, CO	St. Louis, MO
Detroit, MI	San Antonio, TX
Houston, TX	San Diego, CA
Indianapolis, IN	San Francisco, CA
Kansas City, MO	Seattle, WA
Los Angeles, CA	Washington, DC

## What the CCI does not indicate

The weighted average for each city is a total of the divisional components weighted to reflect typical usage. It does not include the productivity variations between trades or cities.

In addition, the CCI does not take into consideration factors such as the following:

- managerial efficiency
- competitive conditions
- automation
- restrictive union practices
- unique local requirements
- regional variations due to specific building codes

# 08 71 Door Hardware

## 08 71 20 – Hardware

08 71 20.15 Hardware		Crew	Daily Output	Labor-Hours	Unit	Material	2018 Bare Costs		Total	Total Incl O&P
							Labor	Equipment		
2250	School, single exterior, incl. lever, incl. panic device	1 Carp	3	2.667	Door	1,450	135		1,585	1,800
2500	Single interior, regular use, lever included		3	2.667		550	135		685	810
2550	Avg., door hdwe., school, classroom, ANSI F84, lever handle		3	2.667		785	135		920	1,075
2600	Avg., door hdwe. set, school, classroom, ANSI F88, incl. lever		3	2.667		850	135		985	1,150
2850	Stairway, single interior		3	2.667		620	135		755	890
3100	Double exterior, with panic device		2	4	Pr.	2,725	203		2,928	3,300
6020	Add for fire alarm door holder, electro-magnetic	1 Elec	4	2	Ea.	104	116		220	288

## 08 71 20.20 Door Protectors

08 71 20.20 DOOR PROTECTORS		Crew	Daily Output	Labor-Hours	Unit	Material	Labor	Equipment	Total	Total Incl O&P
0010	<b>DOOR PROTECTORS</b>									
0020	1-3/4" x 3/4" U channel	2 Carp	80	.200	L.F.	22.50	10.15		32.65	40.50
0021	1-3/4" x 1-1/4" U channel		80	.200	"	20	10.15		30.15	37.50
1000	Tear drop, spring stl., 8" high x 19" long		15	1.067	Ea.	104	54		158	197
1010	8" high x 32" long		15	1.067		129	54		183	225
1100	Tear drop, stainless stl., 8" high x 19" long		15	1.067		273	54		327	385
1200	8" high x 32" long		15	1.067		340	54		394	460

## 08 71 20.30 Door Closers

08 71 20.30 DOOR CLOSERS		Crew	Daily Output	Labor-Hours	Unit	Material	Labor	Equipment	Total	Total Incl O&P
0010	<b>DOOR CLOSERS</b> adjustable backcheck, multiple mounting									
0015	and rack and pinion									
0020	Standard Regular Arm	1 Carp	6	1.333	Ea.	201	67.50		268.50	325
0040	Hold open arm		6	1.333		96.50	67.50		164	209
0100	Fusible link		6.50	1.231		172	62.50		234.50	284
0210	Light duty, regular arm		6	1.333		117	67.50		184.50	231
0220	Parallel arm		6	1.333		143	67.50		210.50	260
0230	Hold open arm		6	1.333		124	67.50		191.50	240
0240	Fusible link arm		6	1.333		156	67.50		223.50	275
0250	Medium duty, regular arm		6	1.333		124	67.50		191.50	239
0500	Surface mount regular arm		6.50	1.231		166	62.50		228.50	278
0550	Fusible link		6.50	1.231		150	62.50		212.50	260
1520	Overhead concealed, all sizes, regular arm		5.50	1.455		210	74		284	345
1525	Concealed arm		5	1.600		335	81		416	490
1530	Concealed in door, all sizes, regular arm		5.50	1.455		350	74		424	495
1535	Concealed arm		5	1.600		274	81		355	425
1560	Floor concealed, all sizes, single acting		2.20	3.636		555	184		739	890
1565	Double acting		2.20	3.636		535	184		719	865
1610	Hold open arm		6	1.333		450	67.50		517.50	600
1620	Double acting, standard arm		6	1.333		830	67.50		897.50	1,025
1630	Hold open arm		6	1.333		840	67.50		907.50	1,025
1640	Floor, center hung, single acting, bottom arm		6	1.333		440	67.50		507.50	590
1650	Double acting		6	1.333		500	67.50		567.50	660
1660	Offset hung, single acting, bottom arm		6	1.333		600	67.50		667.50	765
2000	Backcheck and adjustable power, hinge face mount									
5000	For cast aluminum cylinder, deduct				Ea.	37			37	40.50
5010	For delayed action surface mounted, add	1 Carp	6	1.333		38	67.50		105.50	145
5040	For delayed action, add					52			52	57.50
5080	For fusible link arm, add					43.50			43.50	48
5120	For shock absorbing arm, add					51.50			51.50	57
5160	For spring power adjustment, add					41.50			41.50	45.50
6000	Closer-holder, hinge face mount, all sizes, exposed arm	1 Carp	6.50	1.231		219	62.50		281.50	335
6500	Electro magnetic closer/holder									
6510	Single point, no detector	1 Carp	4	2	Ea.	550	101		651	760
6515	Including detector		4	2		705	101		806	930
6520	Multi-point, no detector		4	2		965	101		1,066	1,200

# 03 30 Cast-In-Place Concrete

## 03 30 53 – Miscellaneous Cast-In-Place Concrete

03 30 53.40 Concrete In Place			Crew	Daily Output	Labor-Hours	Unit	Material	2018 Bare Costs			Total Incl O&P
							Labor	Equipment	Total		
0010	<b>CONCRETE IN PLACE</b>	R033105-10									
0020	Including forms (4 uses), Grade 60 rebar, concrete (Portland cement	R033105-20									
0050	Type I), placement and finishing unless otherwise indicated	R033105-50									
0300	Beams (3500 psi), 5 kip/L.F., 10' span	R033105-65	C-14A	15.62	12.804	C.Y.	340	645	58	1,043	1,425
0350	25' span	R033105-70	"	18.55	10.782		355	545	49	949	1,275
0500	Chimney foundations (5000 psi), over 5 C.Y.	R033105-85	C-14C	32.22	3.476		171	167	.80	338.80	445
0510	(3500 psi), under 5 C.Y.	R033053-50	"	23.71	4.724		198	227	1.09	426.09	565
0700	Columns, square (4000 psi), 12" x 12", up to 1% reinforcing by area		C-14A	11.96	16.722		380	845	76	1,301	1,775
0720	Up to 2% reinforcing by area			10.13	19.743		580	1,000	89.50	1,669.50	2,250
0740	Up to 3% reinforcing by area			9.03	22.148		850	1,125	101	2,076	2,750
0800	16" x 16", up to 1% reinforcing by area			16.22	12.330		305	625	56	986	1,350
0820	Up to 2% reinforcing by area			12.57	15.911		495	805	72	1,372	1,850
0840	Up to 3% reinforcing by area			10.25	19.512		750	985	88.50	1,823.50	2,425
0900	24" x 24", up to 1% reinforcing by area			23.66	8.453		261	425	38.50	724.50	980
0920	Up to 2% reinforcing by area			17.71	11.293		440	570	51.50	1,061.50	1,400
0940	Up to 3% reinforcing by area			14.15	14.134		685	715	64	1,464	1,900
1000	36" x 36", up to 1% reinforcing by area			33.69	5.936		232	300	27	559	740
1020	Up to 2% reinforcing by area			23.32	8.576		390	435	39	864	1,125
1040	Up to 3% reinforcing by area			17.82	11.223		640	565	51	1,256	1,625
1100	Columns, round (4000 psi), tied, 12" diameter, up to 1% reinforcing by area			20.97	9.537		380	480	43.50	903.50	1,200
1120	Up to 2% reinforcing by area			15.27	13.098		575	660	59.50	1,294.50	1,700
1140	Up to 3% reinforcing by area			12.11	16.515		835	835	75	1,745	2,275
1200	16" diameter, up to 1% reinforcing by area			31.49	6.351		320	320	29	669	870
1220	Up to 2% reinforcing by area			19.12	10.460		520	530	47.50	1,097.50	1,425
1240	Up to 3% reinforcing by area			13.77	14.524		755	735	66	1,556	2,025
1300	20" diameter, up to 1% reinforcing by area			41.04	4.873		310	246	22	578	740
1320	Up to 2% reinforcing by area			24.05	8.316		495	420	38	953	1,225
1340	Up to 3% reinforcing by area			17.01	11.758		750	595	53.50	1,398.50	1,800
1400	24" diameter, up to 1% reinforcing by area			51.85	3.857		290	195	17.50	502.50	635
1420	Up to 2% reinforcing by area			27.06	7.391		490	375	33.50	898.50	1,150
1440	Up to 3% reinforcing by area			18.29	10.935		730	555	49.50	1,334.50	1,700
1500	36" diameter, up to 1% reinforcing by area			75.04	2.665		296	135	12.10	443.10	545
1520	Up to 2% reinforcing by area			37.49	5.335		475	270	24	769	955
1540	Up to 3% reinforcing by area			22.84	8.757		720	445	40	1,205	1,500
1900	Elevated slab (4000 psi), flat slab with drops, 125 psf Sup. Load, 20' span		C-14B	38.45	5.410		284	273	23.50	580.50	750
1950	30' span			50.99	4.079		298	206	17.80	521.80	660
2100	Flat plate, 125 psf Sup. Load, 15' span			30.24	6.878		261	345	30	636	845
2150	25' span			49.60	4.194		270	211	18.30	499.30	635
2300	Waffle const., 30" domes, 125 psf Sup. Load, 20' span			37.07	5.611		297	283	24.50	604.50	780
2350	30' span			44.07	4.720		275	238	20.50	533.50	690
2500	One way joists, 30" pans, 125 psf Sup. Load, 15' span			27.38	7.597		400	385	33	818	1,050
2550	25' span			31.15	6.677		365	335	29	729	945
2700	One way beam & slab, 125 psf Sup. Load, 15' span			20.59	10.102		279	510	44	833	1,125
2750	25' span			28.36	7.334		265	370	32	667	885
2900	Two way beam & slab, 125 psf Sup. Load, 15' span			24.04	8.652		270	435	37.50	742.50	1,000
2950	25' span			35.87	5.799		236	292	25.50	553.50	730
3100	Elevated slabs, flat plate, including finish, not										
3110	including forms or reinforcing										
3150	Regular concrete (4000 psi), 4" slab		C-8	2613	.021	S.F.	1.70	.95	.34	2.99	3.67
3200	6" slab			2585	.022		2.48	.96	.34	3.78	4.56
3250	2-1/2" thick floor fill			2685	.021		1.11	.92	.33	2.36	2.97
3300	Lightweight, 110 #/C.F., 2-1/2" thick floor fill			2585	.022		1.14	.96	.34	2.44	3.09
3400	Cellular concrete, 1-5/8" fill, under 5000 S.F.			2000	.028		.79	1.24	.44	2.47	3.22

# 03 30 Cast-In-Place Concrete

## 03 30 53 – Miscellaneous Cast-In-Place Concrete

03 30 53.40 Concrete In Place		Crew	Daily Output	Labor-Hours	Unit	Material	2018 Bare Costs		Total	Total Incl O&P
							Labor	Equipment		
3450	Over 10,000 S.F.	C-8	2200	.025	S.F.	.75	1.13	.40	2.28	2.97
3500	Add per floor for 3 to 6 stories high		31800	.002			.08	.03	.11	.15
3520	For 7 to 20 stories high		21200	.003			.12	.04	.16	.23
3540	Equipment pad (3000 psi), 3' x 3' x 6" thick	C-14H	45	1.067	Ea.	44.50	52.50	.57	97.57	130
3550	4' x 4' x 6" thick		30	1.600		69	79	.85	148.85	197
3560	5' x 5' x 8" thick		18	2.667		126	132	1.41	259.41	340
3570	6' x 6' x 8" thick		14	3.429		173	169	1.82	343.82	450
3580	8' x 8' x 10" thick		8	6		370	296	3.18	669.18	860
3590	10' x 10' x 12" thick		5	9.600		645	475	5.10	1,125.10	1,425
3800	Footings (3000 psi), spread under 1 C.Y.	C-14C	28	4	C.Y.	185	192	.92	377.92	495
3825	1 C.Y. to 5 C.Y.		43	2.605		219	125	.60	344.60	430
3850	Over 5 C.Y.		75	1.493		203	72	.34	275.34	330
3900	Footings, strip (3000 psi), 18" x 9", unreinforced	C-14L	40	2.400		146	113	.65	259.65	335
3920	18" x 9", reinforced	C-14C	35	3.200		169	154	.74	323.74	420
3925	20" x 10", unreinforced	C-14L	45	2.133		142	100	.58	242.58	310
3930	20" x 10", reinforced	C-14C	40	2.800		161	135	.64	296.64	385
3935	24" x 12", unreinforced	C-14L	55	1.745		140	82	.47	222.47	280
3940	24" x 12", reinforced	C-14C	48	2.333		159	112	.54	271.54	345
3945	36" x 12", unreinforced	C-14L	70	1.371		136	64.50	.37	200.87	248
3950	36" x 12", reinforced	C-14C	60	1.867		153	90	.43	243.43	305
4000	Foundation mat (3000 psi), under 10 C.Y.		38.67	2.896		221	139	.67	360.67	455
4050	Over 20 C.Y.		56.40	1.986		196	95.50	.46	291.96	360
4200	Wall, free-standing (3000 psi), 8" thick, 8' high	C-14D	45.83	4.364		182	219	19.80	420.80	555
4250	14' high		27.26	7.337		211	370	33.50	614.50	830
4260	12" thick, 8' high		64.32	3.109		165	156	14.10	335.10	435
4270	14' high		40.01	4.999		175	251	22.50	448.50	595
4300	15" thick, 8' high		80.02	2.499		160	126	11.35	297.35	380
4350	12' high		51.26	3.902		160	196	17.70	373.70	490
4500	18' high		48.85	4.094		178	206	18.60	402.60	530
4520	Handicap access ramp (4000 psi), railing both sides, 3' wide	C-14H	14.58	3.292	L.F.	360	163	1.74	524.74	645
4525	5' wide		12.22	3.928		370	194	2.08	566.08	705
4530	With 6" curb and rails both sides, 3' wide		8.55	5.614		370	277	2.98	649.98	835
4535	5' wide		7.31	6.566		375	325	3.48	703.48	910
4650	Slab on grade (3500 psi), not including finish, 4" thick	C-14E	60.75	1.449	C.Y.	145	71	.42	216.42	268
4700	6" thick	"	92	.957	"	140	47	.28	187.28	226
4701	Thickened slab edge (3500 psi), for slab on grade poured									
4702	monolithically with slab; depth is in addition to slab thickness;									
4703	formed vertical outside edge, earthen bottom and inside slope									
4705	8" deep x 8" wide bottom, unreinforced	C-14L	2190	.044	L.F.	3.97	2.06	.01	6.04	7.50
4710	8" x 8", reinforced	C-14C	1670	.067		6.20	3.22	.02	9.44	11.75
4715	12" deep x 12" wide bottom, unreinforced	C-14L	1800	.053		8.15	2.51	.01	10.67	12.80
4720	12" x 12", reinforced	C-14C	1310	.086		12.25	4.11	.02	16.38	19.75
4725	16" deep x 16" wide bottom, unreinforced	C-14L	1440	.067		13.80	3.13	.02	16.95	20
4730	16" x 16", reinforced	C-14C	1120	.100		18.70	4.81	.02	23.53	28
4735	20" deep x 20" wide bottom, unreinforced	C-14L	1150	.083		21	3.92	.02	24.94	29
4740	20" x 20", reinforced	C-14C	920	.122		27	5.85	.03	32.88	39
4745	24" deep x 24" wide bottom, unreinforced	C-14L	930	.103		29.50	4.85	.03	34.38	40
4750	24" x 24", reinforced	C-14C	740	.151		38	7.30	.03	45.33	52.50
4751	Slab on grade (3500 psi), incl. troweled finish, not incl. forms									
4760	or reinforcing, over 10,000 S.F., 4" thick	C-14F	3425	.021	S.F.	1.61	.95	.01	2.57	3.21
4820	6" thick		3350	.021		2.36	.97	.01	3.34	4.06
4840	8" thick		3184	.023		3.23	1.02	.01	4.26	5.10
4900	12" thick		2734	.026		4.84	1.19	.01	6.04	7.15

# 09 65 Resilient Flooring

## 09 65 16 – Resilient Sheet Flooring

09 65 16.10 Rubber and Vinyl Sheet Flooring		Crew	Daily Output	Labor-Hours	Unit	Material	2018 Bare Costs		Total	Total Incl O&P
							Labor	Equipment		
0010	<b>RUBBER AND VINYL SHEET FLOORING</b>									
5500	Linoleum, sheet goods <span style="float:right">G</span>	1 Tlf	360	.022	S.F.	3.59	1.04		4.63	5.50
5900	Rubber, sheet goods, 36" wide, 1/8" thick		120	.067		8.25	3.12		11.37	13.70
5950	3/16" thick		100	.080		10.20	3.75		13.95	16.80
6000	1/4" thick		90	.089		12.05	4.16		16.21	19.40
8000	Vinyl sheet goods, backed, .065" thick, plain pattern/colors		250	.032		4.30	1.50		5.80	6.95
8050	Intricate pattern/colors		200	.040		3.94	1.87		5.81	7.10
8100	.080" thick, plain pattern/colors		230	.035		4.22	1.63		5.85	7.05
8150	Intricate pattern/colors		200	.040		6.45	1.87		8.32	9.85
8200	.125" thick, plain pattern/colors		230	.035		3.87	1.63		5.50	6.65
8250	Intricate pattern/colors		200	.040		7.50	1.87		9.37	11
8400	For welding seams, add		100	.080	L.F.	.24	3.75		3.99	5.80
8450	For integral cove base, add		175	.046	"	.81	2.14		2.95	4.06
8700	Adhesive cement, 1 gallon per 200 to 300 S.F.				Gal.	31.50			31.50	34.50
8800	Asphalt primer, 1 gallon per 300 S.F.					14.95			14.95	16.45
8900	Emulsion, 1 gallon per 140 S.F.					18.95			18.95	21

## 09 65 19 – Resilient Tile Flooring

### 09 65 19.19 Vinyl Composition Tile Flooring

0010	<b>VINYL COMPOSITION TILE FLOORING</b>									
7000	Vinyl composition tile, 12" x 12", 1/16" thick	1 Tlf	500	.016	S.F.	1.22	.75		1.97	2.45
7050	Embossed		500	.016		2.66	.75		3.41	4.04
7100	Marbleized		500	.016		2.66	.75		3.41	4.04
7150	Solid		500	.016		3.44	.75		4.19	4.89
7200	3/32" thick, embossed		500	.016		1.55	.75		2.30	2.82
7250	Marbleized		500	.016		3.06	.75		3.81	4.48
7300	Solid		500	.016		2.85	.75		3.60	4.25
7350	1/8" thick, marbleized		500	.016		2.44	.75		3.19	3.79
7400	Solid		500	.016		1.77	.75		2.52	3.06
7450	Conductive		500	.016		5.90	.75		6.65	7.60

### 09 65 19.23 Vinyl Tile Flooring

0010	<b>VINYL TILE FLOORING</b>									
7500	Vinyl tile, 12" x 12", 3/32" thick, standard colors/patterns	1 Tlf	500	.016	S.F.	3.71	.75		4.46	5.20
7550	1/8" thick, standard colors/patterns		500	.016		5.20	.75		5.95	6.80
7600	1/8" thick, premium colors/patterns		500	.016		7	.75		7.75	8.80
7650	Solid colors		500	.016		3.23	.75		3.98	4.66
7700	Marbleized or Travertine pattern		500	.016		6.20	.75		6.95	7.90
7750	Florentine pattern		500	.016		6.60	.75		7.35	8.35
7800	Premium colors/patterns		500	.016		6.25	.75		7	7.95

### 09 65 19.33 Rubber Tile Flooring

0010	<b>RUBBER TILE FLOORING</b>									
6050	Rubber tile, marbleized colors, 12" x 12", 1/8" thick	1 Tlf	400	.020	S.F.	5.80	.94		6.74	7.75
6100	3/16" thick		400	.020		8	.94		8.94	10.20
6300	Special tile, plain colors, 1/8" thick		400	.020		8.15	.94		9.09	10.35
6350	3/16" thick		400	.020		9.75	.94		10.69	12.10
6410	Raised, radial or square, .5 mm black		400	.020		7.75	.94		8.69	9.95
6430	.5 mm colored		400	.020		7.75	.94		8.69	9.95
6450	For golf course, skating rink, etc., 1/4" thick		275	.029		10.45	1.36		11.81	13.45

# Crews - Standard

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew A-1</b>						
1 Building Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$39.85	\$60.70
1 Concrete Saw, Gas Manual		71.20		78.32	8.90	9.79
8 L.H., Daily Totals		\$390.00		\$563.92	\$48.75	\$70.49
<b>Crew A-1A</b>						
1 Skilled Worker	\$52.35	\$418.80	\$80.15	\$641.20	\$52.35	\$80.15
1 Shot Blaster, 20"		214.80		236.28	26.85	29.54
8 L.H., Daily Totals		\$633.60		\$877.48	\$79.20	\$109.69
<b>Crew A-1B</b>						
1 Building Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$39.85	\$60.70
1 Concrete Saw		102.40		112.64	12.80	14.08
8 L.H., Daily Totals		\$421.20		\$598.24	\$52.65	\$74.78
<b>Crew A-1C</b>						
1 Building Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$39.85	\$60.70
1 Chain Saw, Gas, 18"		27.80		30.58	3.48	3.82
8 L.H., Daily Totals		\$346.60		\$516.18	\$43.33	\$64.52
<b>Crew A-1D</b>						
1 Building Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$39.85	\$60.70
1 Vibrating Plate, Gas, 18"		31.80		34.98	3.98	4.37
8 L.H., Daily Totals		\$350.60		\$520.58	\$43.83	\$65.07
<b>Crew A-1E</b>						
1 Building Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$39.85	\$60.70
1 Vibrating Plate, Gas, 21"		40.60		44.66	5.08	5.58
8 L.H., Daily Totals		\$359.40		\$530.26	\$44.92	\$66.28
<b>Crew A-1F</b>						
1 Building Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$39.85	\$60.70
1 Rammer/Tamper, Gas, 8"		46.00		50.60	5.75	6.33
8 L.H., Daily Totals		\$364.80		\$536.20	\$45.60	\$67.03
<b>Crew A-1G</b>						
1 Building Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$39.85	\$60.70
1 Rammer/Tamper, Gas, 15"		52.00		57.20	6.50	7.15
8 L.H., Daily Totals		\$370.80		\$542.80	\$46.35	\$67.85
<b>Crew A-1H</b>						
1 Building Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$39.85	\$60.70
1 Exterior Steam Cleaner		74.80		82.28	9.35	10.29
8 L.H., Daily Totals		\$393.60		\$567.88	\$49.20	\$70.98
<b>Crew A-1J</b>						
1 Building Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$39.85	\$60.70
1 Cultivator, Walk-Behind, 5 H.P.		63.50		69.85	7.94	8.73
8 L.H., Daily Totals		\$382.30		\$555.45	\$47.79	\$69.43
<b>Crew A-1K</b>						
1 Building Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$39.85	\$60.70
1 Cultivator, Walk-Behind, 8 H.P.		74.60		82.06	9.32	10.26
8 L.H., Daily Totals		\$393.40		\$567.66	\$49.17	\$70.96
<b>Crew A-1M</b>						
1 Building Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$39.85	\$60.70
1 Snow Blower, Walk-Behind		70.10		77.11	8.76	9.64
8 L.H., Daily Totals		\$388.90		\$562.71	\$48.61	\$70.34

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew A-2</b>						
2 Laborers	\$39.85	\$637.60	\$60.70	\$971.20	\$41.40	\$62.80
1 Truck Driver (light)	44.50	356.00	67.00	536.00		
1 Flatbed Truck, Gas, 1.5 Ton		188.40		207.24	7.85	8.63
24 L.H., Daily Totals		\$1182.00		\$1714.44	\$49.25	\$71.44
<b>Crew A-2A</b>						
2 Laborers	\$39.85	\$637.60	\$60.70	\$971.20	\$41.40	\$62.80
1 Truck Driver (light)	44.50	356.00	67.00	536.00		
1 Flatbed Truck, Gas, 1.5 Ton		188.40		207.24		
1 Concrete Saw		102.40		112.64	12.12	13.33
24 L.H., Daily Totals		\$1284.40		\$1827.08	\$53.52	\$76.13
<b>Crew A-2B</b>						
1 Truck Driver (light)	\$44.50	\$356.00	\$67.00	\$536.00	\$44.50	\$67.00
1 Flatbed Truck, Gas, 1.5 Ton		188.40		207.24	23.55	25.91
8 L.H., Daily Totals		\$544.40		\$743.24	\$68.05	\$92.91
<b>Crew A-3A</b>						
1 Equip. Oper. (light)	\$51.30	\$410.40	\$77.35	\$618.80	\$51.30	\$77.35
1 Pickup Truck, 4x4, 3/4 Ton		126.60		139.26	15.82	17.41
8 L.H., Daily Totals		\$537.00		\$758.06	\$67.13	\$94.76
<b>Crew A-3B</b>						
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.88	\$75.17
1 Truck Driver (heavy)	46.00	368.00	69.30	554.40		
1 Dump Truck, 12 C.Y., 400 H.P.		542.80		597.08		
1 F.E. Loader, W.M., 2.5 C.Y.		523.20		575.52	66.63	73.29
16 L.H., Daily Totals		\$1864.00		\$2375.40	\$116.50	\$148.46
<b>Crew A-3C</b>						
1 Equip. Oper. (light)	\$51.30	\$410.40	\$77.35	\$618.80	\$51.30	\$77.35
1 Loader, Skid Steer, 78 H.P.		364.80		401.28	45.60	50.16
8 L.H., Daily Totals		\$775.20		\$1020.08	\$96.90	\$127.51
<b>Crew A-3D</b>						
1 Truck Driver (light)	\$44.50	\$356.00	\$67.00	\$536.00	\$44.50	\$67.00
1 Pickup Truck, 4x4, 3/4 Ton		126.60		139.26		
1 Flatbed Trailer, 25 Ton		133.00		146.30	32.45	35.70
8 L.H., Daily Totals		\$615.60		\$821.56	\$76.95	\$102.69
<b>Crew A-3E</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$51.05	\$76.95
1 Truck Driver (heavy)	46.00	368.00	69.30	554.40		
1 Pickup Truck, 4x4, 3/4 Ton		126.60		139.26	7.91	8.70
16 L.H., Daily Totals		\$943.40		\$1370.46	\$58.96	\$85.65
<b>Crew A-3F</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$51.05	\$76.95
1 Truck Driver (heavy)	46.00	368.00	69.30	554.40		
1 Pickup Truck, 4x4, 3/4 Ton		126.60		139.26		
1 Truck Tractor, 6x4, 380 H.P.		476.20		523.82		
1 Lowbed Trailer, 75 Ton		249.40		274.34	53.26	58.59
16 L.H., Daily Totals		\$1669.00		\$2168.62	\$104.31	\$135.54

# Crews - Standard

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew A-3G</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$51.05	\$76.95
1 Truck Driver (heavy)	46.00	368.00	69.30	554.40		
1 Pickup Truck, 4x4, 3/4 Ton		126.60		139.26		
1 Truck Tractor, 6x4, 450 H.P.		583.40		641.74		
1 Lowbed Trailer, 75 Ton		249.40		274.34	59.96	65.96
16 L.H., Daily Totals		\$1776.20		\$2286.54	\$111.01	\$142.91
<b>Crew A-3H</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$56.10	\$84.60
1 Hyd. Crane, 12 Ton (Daily)		628.60		691.46	78.58	86.43
8 L.H., Daily Totals		\$1077.40		\$1368.26	\$134.68	\$171.03
<b>Crew A-3I</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$56.10	\$84.60
1 Hyd. Crane, 25 Ton (Daily)		759.40		835.34	94.92	104.42
8 L.H., Daily Totals		\$1208.20		\$1512.14	\$151.03	\$189.02
<b>Crew A-3J</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$56.10	\$84.60
1 Hyd. Crane, 40 Ton (Daily)		1313.00		1444.30	164.13	180.54
8 L.H., Daily Totals		\$1761.80		\$2121.10	\$220.22	\$265.14
<b>Crew A-3K</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$52.35	\$78.95
1 Equip. Oper. (oilier)	48.60	388.80	73.30	586.40		
1 Hyd. Crane, 55 Ton (Daily)		1353.00		1488.30		
1 P/U Truck, 3/4 Ton (Daily)		139.20		153.12	93.26	102.59
16 L.H., Daily Totals		\$2329.80		\$2904.62	\$145.61	\$181.54
<b>Crew A-3L</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$52.35	\$78.95
1 Equip. Oper. (oilier)	48.60	388.80	73.30	586.40		
1 Hyd. Crane, 80 Ton (Daily)		2113.00		2324.30		
1 P/U Truck, 3/4 Ton (Daily)		139.20		153.12	140.76	154.84
16 L.H., Daily Totals		\$3089.80		\$3740.62	\$193.11	\$233.79
<b>Crew A-3M</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$52.35	\$78.95
1 Equip. Oper. (oilier)	48.60	388.80	73.30	586.40		
1 Hyd. Crane, 100 Ton (Daily)		2144.00		2358.40		
1 P/U Truck, 3/4 Ton (Daily)		139.20		153.12	142.70	156.97
16 L.H., Daily Totals		\$3120.80		\$3774.72	\$195.05	\$235.92
<b>Crew A-3N</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$56.10	\$84.60
1 Tower Crane (monthly)		1180.00		1298.00	147.50	162.25
8 L.H., Daily Totals		\$1628.80		\$1974.80	\$203.60	\$246.85
<b>Crew A-3P</b>						
1 Equip. Oper. (light)	\$51.30	\$410.40	\$77.35	\$618.80	\$51.30	\$77.35
1 A.T. Forklift, 31' reach, 45' lift		484.20		532.62	60.52	66.58
8 L.H., Daily Totals		\$894.60		\$1151.42	\$111.83	\$143.93
<b>Crew A-3Q</b>						
1 Equip. Oper. (light)	\$51.30	\$410.40	\$77.35	\$618.80	\$51.30	\$77.35
1 Pickup Truck, 4x4, 3/4 Ton		126.60		139.26		
1 Flatbed Trailer, 3 Ton		25.40		27.94	19.00	20.90
8 L.H., Daily Totals		\$562.40		\$786.00	\$70.30	\$98.25

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew A-3R</b>						
1 Equip. Oper. (light)	\$51.30	\$410.40	\$77.35	\$618.80	\$51.30	\$77.35
1 Forklift, Smooth Floor, 8,000 Lb.		148.20		163.02	18.52	20.38
8 L.H., Daily Totals		\$558.60		\$781.82	\$69.83	\$97.73
<b>Crew A-4</b>						
2 Carpenters	\$50.70	\$811.20	\$77.20	\$1235.20	\$47.98	\$72.82
1 Painter, Ordinary	42.55	340.40	64.05	512.40		
24 L.H., Daily Totals		\$1151.60		\$1747.60	\$47.98	\$72.82
<b>Crew A-5</b>						
2 Laborers	\$39.85	\$637.60	\$60.70	\$971.20	\$40.37	\$61.40
.25 Truck Driver (light)	44.50	89.00	67.00	134.00		
.25 Flatbed Truck, Gas, 1.5 Ton		47.10		51.81	2.62	2.88
18 L.H., Daily Totals		\$773.70		\$1157.01	\$42.98	\$64.28
<b>Crew A-6</b>						
1 Instrument Man	\$52.35	\$418.80	\$80.15	\$641.20	\$50.42	\$76.80
1 Rodman/Chainman	48.50	388.00	73.45	587.60		
1 Level, Electronic		50.40		55.44	3.15	3.46
16 L.H., Daily Totals		\$857.20		\$1284.24	\$53.58	\$80.27
<b>Crew A-7</b>						
1 Chief of Party	\$63.65	\$509.20	\$96.45	\$771.60	\$54.83	\$83.35
1 Instrument Man	52.35	418.80	80.15	641.20		
1 Rodman/Chainman	48.50	388.00	73.45	587.60		
1 Level, Electronic		50.40		55.44	2.10	2.31
24 L.H., Daily Totals		\$1366.40		\$2055.84	\$56.93	\$85.66
<b>Crew A-8</b>						
1 Chief of Party	\$63.65	\$509.20	\$96.45	\$771.60	\$53.25	\$80.88
1 Instrument Man	52.35	418.80	80.15	641.20		
2 Rodmen/Chainmen	48.50	776.00	73.45	1175.20		
1 Level, Electronic		50.40		55.44	1.58	1.73
32 L.H., Daily Totals		\$1754.40		\$2643.44	\$54.83	\$82.61
<b>Crew A-9</b>						
1 Asbestos Foreman	\$56.80	\$454.40	\$88.15	\$705.20	\$56.36	\$87.49
7 Asbestos Workers	56.30	3152.80	87.40	4894.40		
64 L.H., Daily Totals		\$3607.20		\$5599.60	\$56.36	\$87.49
<b>Crew A-10A</b>						
1 Asbestos Foreman	\$56.80	\$454.40	\$88.15	\$705.20	\$56.47	\$87.65
2 Asbestos Workers	56.30	900.80	87.40	1398.40		
24 L.H., Daily Totals		\$1355.20		\$2103.60	\$56.47	\$87.65
<b>Crew A-10B</b>						
1 Asbestos Foreman	\$56.80	\$454.40	\$88.15	\$705.20	\$56.42	\$87.59
3 Asbestos Workers	56.30	1351.20	87.40	2097.60		
32 L.H., Daily Totals		\$1805.60		\$2802.80	\$56.42	\$87.59
<b>Crew A-10C</b>						
3 Asbestos Workers	\$56.30	\$1351.20	\$87.40	\$2097.60	\$56.30	\$87.40
1 Flatbed Truck, Gas, 1.5 Ton		188.40		207.24	7.85	8.63
24 L.H., Daily Totals		\$1539.60		\$2304.84	\$64.15	\$96.03

# Crews - Standard

Crew No.	Bare Costs		Incl.		Cost	
			Subs O&P	Per Labor-Hour	Bare Costs	Incl. O&P
<b>Crew A-10D</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
2 Asbestos Workers	\$56.30	\$900.80	\$87.40	\$1398.40	\$54.33	\$83.17
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
1 Hydraulic Crane, 33 Ton		940.60		1034.66	29.39	32.33
32 L.H., Daily Totals		\$2679.00		\$3696.26	\$83.72	\$115.51
<b>Crew A-11</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Asbestos Foreman	\$56.80	\$454.40	\$88.15	\$705.20	\$56.36	\$87.49
7 Asbestos Workers	56.30	3152.80	87.40	4894.40		
2 Chip. Hammers, 12 Lb., Elec.		42.00		46.20	.66	.72
64 L.H., Daily Totals		\$3649.20		\$5645.80	\$57.02	\$88.22
<b>Crew A-12</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Asbestos Foreman	\$56.80	\$454.40	\$88.15	\$705.20	\$56.36	\$87.49
7 Asbestos Workers	56.30	3152.80	87.40	4894.40		
1 Trk-Mtd Vac, 14 CY, 1500 Gal.		522.70		574.97		
1 Flatbed Truck, 20,000 GW		197.20		216.92	11.25	12.37
64 L.H., Daily Totals		\$4327.10		\$6391.49	\$67.61	\$99.87
<b>Crew A-13</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Equip. Oper. (light)	\$51.30	\$410.40	\$77.35	\$618.80	\$51.30	\$77.35
1 Trk-Mtd Vac, 14 CY, 1500 Gal.		522.70		574.97		
1 Flatbed Truck, 20,000 GW		197.20		216.92	89.99	98.99
8 L.H., Daily Totals		\$1130.30		\$1410.69	\$141.29	\$176.34
<b>Crew B-1</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$40.52	\$61.72
2 Laborers	39.85	637.60	60.70	971.20		
24 L.H., Daily Totals		\$972.40		\$1481.20	\$40.52	\$61.72
<b>Crew B-1A</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$40.52	\$61.72
2 Laborers	39.85	637.60	60.70	971.20		
2 Cutting Torches		25.20		27.72		
2 Sets of Gases		336.00		369.60	15.05	16.56
24 L.H., Daily Totals		\$1333.60		\$1878.52	\$55.57	\$78.27
<b>Crew B-1B</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$44.41	\$67.44
2 Laborers	39.85	637.60	60.70	971.20		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
2 Cutting Torches		25.20		27.72		
2 Sets of Gases		336.00		369.60		
1 Hyd. Crane, 12 Ton		496.00		545.60	26.79	29.47
32 L.H., Daily Totals		\$2278.40		\$3100.92	\$71.20	\$96.90
<b>Crew B-1C</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$40.52	\$61.72
2 Laborers	39.85	637.60	60.70	971.20		
1 Telescoping Boom Lift, to 60'		454.60		500.06	18.94	20.84
24 L.H., Daily Totals		\$1427.00		\$1981.26	\$59.46	\$82.55
<b>Crew B-1D</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
2 Laborers	\$39.85	\$637.60	\$60.70	\$971.20	\$39.85	\$60.70
1 Small Work Boat, Gas, 50 H.P.		138.00		151.80		
1 Pressure Washer, 7 GPM		77.20		84.92	13.45	14.80
16 L.H., Daily Totals		\$852.80		\$1207.92	\$53.30	\$75.50

Crew No.	Bare Costs		Incl.		Cost	
			Subs O&P	Per Labor-Hour	Bare Costs	Incl. O&P
<b>Crew B-1E</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$40.35	\$61.46
3 Laborers	39.85	956.40	60.70	1456.80		
1 Work Boat, Diesel, 200 H.P.		1385.00		1523.50		
2 Pressure Washers, 7 GPM		154.40		169.84	48.11	52.92
32 L.H., Daily Totals		\$2830.60		\$3660.14	\$88.46	\$114.38
<b>Crew B-1F</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
2 Skilled Workers	\$52.35	\$837.60	\$80.15	\$1282.40	\$48.18	\$73.67
1 Laborer	39.85	318.80	60.70	485.60		
1 Small Work Boat, Gas, 50 H.P.		138.00		151.80		
1 Pressure Washer, 7 GPM		77.20		84.92	8.97	9.86
24 L.H., Daily Totals		\$1371.60		\$2004.72	\$57.15	\$83.53
<b>Crew B-1G</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
2 Laborers	\$39.85	\$637.60	\$60.70	\$971.20	\$39.85	\$60.70
1 Small Work Boat, Gas, 50 H.P.		138.00		151.80	8.63	9.49
16 L.H., Daily Totals		\$775.60		\$1123.00	\$48.48	\$70.19
<b>Crew B-1H</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
2 Skilled Workers	\$52.35	\$837.60	\$80.15	\$1282.40	\$48.18	\$73.67
1 Laborer	39.85	318.80	60.70	485.60		
1 Small Work Boat, Gas, 50 H.P.		138.00		151.80	5.75	6.33
24 L.H., Daily Totals		\$1294.40		\$1919.80	\$53.93	\$79.99
<b>Crew B-1J</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Labor Foreman (inside)	\$40.35	\$322.80	\$61.45	\$491.60	\$40.10	\$61.08
1 Laborer	39.85	318.80	60.70	485.60		
16 L.H., Daily Totals		\$641.60		\$977.20	\$40.10	\$61.08
<b>Crew B-1K</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Carpenter Foreman (inside)	\$51.20	\$409.60	\$78.00	\$624.00	\$50.95	\$77.60
1 Carpenter	50.70	405.60	77.20	617.60		
16 L.H., Daily Totals		\$815.20		\$1241.60	\$50.95	\$77.60
<b>Crew B-2</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$40.25	\$61.31
4 Laborers	39.85	1275.20	60.70	1942.40		
40 L.H., Daily Totals		\$1610.00		\$2452.40	\$40.25	\$61.31
<b>Crew B-2A</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$40.52	\$61.72
2 Laborers	39.85	637.60	60.70	971.20		
1 Telescoping Boom Lift, to 60'		454.60		500.06	18.94	20.84
24 L.H., Daily Totals		\$1427.00		\$1981.26	\$59.46	\$82.55
<b>Crew B-3</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$44.55	\$67.47
2 Laborers	39.85	637.60	60.70	971.20		
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
2 Truck Drivers (heavy)	46.00	736.00	69.30	1108.80		
1 Crawler Loader, 3 C.Y.		1204.00		1324.40		
2 Dump Trucks, 12 C.Y., 400 H.P.		1085.60		1194.16	47.70	52.47
48 L.H., Daily Totals		\$4428.00		\$5756.96	\$92.25	\$119.94
<b>Crew B-3A</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
4 Laborers	\$39.85	\$1275.20	\$60.70	\$1942.40	\$42.63	\$64.77
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
1 Hyd. Excavator, 1.5 C.Y.		893.60		982.96	22.34	24.57
40 L.H., Daily Totals		\$2598.80		\$3573.76	\$64.97	\$89.34

# Crews - Standard

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-3B</b>						
2 Laborers	\$39.85	\$637.60	\$60.70	\$971.20	\$44.86	\$67.94
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
1 Truck Driver (heavy)	46.00	368.00	69.30	554.40		
1 Backhoe Loader, 80 H.P.		385.00		423.50		
1 Dump Truck, 12 C.Y., 400 H.P.		542.80		597.08	28.99	31.89
32 L.H., Daily Totals		\$2363.40		\$3194.58	\$73.86	\$99.83
<b>Crew B-3C</b>						
3 Laborers	\$39.85	\$956.40	\$60.70	\$1456.80	\$43.33	\$65.79
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
1 Crawler Loader, 4 C.Y.		1459.00		1604.90	45.59	50.15
32 L.H., Daily Totals		\$2845.40		\$3710.10	\$88.92	\$115.94
<b>Crew B-4</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$41.21	\$62.64
4 Laborers	39.85	1275.20	60.70	1942.40		
1 Truck Driver (heavy)	46.00	368.00	69.30	554.40		
1 Truck Tractor, 220 H.P.		290.00		319.00		
1 Flatbed Trailer, 40 Ton		180.00		198.00	9.79	10.77
48 L.H., Daily Totals		\$2448.00		\$3523.80	\$51.00	\$73.41
<b>Crew B-5</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$44.11	\$66.95
4 Laborers	39.85	1275.20	60.70	1942.40		
2 Equip. Oper. (medium)	53.75	860.00	81.05	1296.80		
1 Air Compressor, 250 cfm		167.40		184.14		
2 Breakers, Pavement, 60 lb.		21.20		23.32		
2 -50' Air Hoses, 1.5"		45.40		49.94		
1 Crawler Loader, 3 C.Y.		1204.00		1324.40	25.68	28.25
56 L.H., Daily Totals		\$3908.00		\$5331.00	\$69.79	\$95.20
<b>Crew B-5A</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$44.31	\$67.17
6 Laborers	39.85	1912.80	60.70	2913.60		
2 Equip. Oper. (medium)	53.75	860.00	81.05	1296.80		
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
2 Truck Drivers (heavy)	46.00	736.00	69.30	1108.80		
1 Air Compressor, 365 cfm		211.40		232.54		
2 Breakers, Pavement, 60 lb.		21.20		23.32		
8 -50' Air Hoses, 1"		67.60		74.36		
2 Dump Trucks, 8 C.Y., 220 H.P.		677.20		744.92	10.18	11.20
96 L.H., Daily Totals		\$5231.40		\$7523.14	\$54.49	\$78.37
<b>Crew B-5B</b>						
1 Powderman	\$52.35	\$418.80	\$80.15	\$641.20	\$49.64	\$75.03
2 Equip. Oper. (medium)	53.75	860.00	81.05	1296.80		
3 Truck Drivers (heavy)	46.00	1104.00	69.30	1663.20		
1 F.E. Loader, W.M., 2.5 C.Y.		523.20		575.52		
3 Dump Trucks, 12 C.Y., 400 H.P.		1628.40		1791.24		
1 Air Compressor, 365 cfm		211.40		232.54	49.23	54.15
48 L.H., Daily Totals		\$4745.80		\$6200.50	\$98.87	\$129.18

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-5C</b>						
3 Laborers	\$39.85	\$956.40	\$60.70	\$1456.80	\$46.25	\$69.96
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
2 Truck Drivers (heavy)	46.00	736.00	69.30	1108.80		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
2 Dump Trucks, 12 C.Y., 400 H.P.		1085.60		1194.16		
1 Crawler Loader, 4 C.Y.		1459.00		1604.90		
1 S.P. Crane, 4x4, 25 Ton		668.40		735.24	50.20	55.22
64 L.H., Daily Totals		\$6173.00		\$8011.50	\$96.45	\$125.18
<b>Crew B-5D</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$44.34	\$67.24
4 Laborers	39.85	1275.20	60.70	1942.40		
2 Equip. Oper. (medium)	53.75	860.00	81.05	1296.80		
1 Truck Driver (heavy)	46.00	368.00	69.30	554.40		
1 Air Compressor, 250 cfm		167.40		184.14		
2 Breakers, Pavement, 60 lb.		21.20		23.32		
2 -50' Air Hoses, 1.5"		45.40		49.94		
1 Crawler Loader, 3 C.Y.		1204.00		1324.40		
1 Dump Truck, 12 C.Y., 400 H.P.		542.80		597.08	30.95	34.05
64 L.H., Daily Totals		\$4818.80		\$6482.48	\$75.29	\$101.29
<b>Crew B-6</b>						
2 Laborers	\$39.85	\$637.60	\$60.70	\$971.20	\$43.67	\$66.25
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Backhoe Loader, 48 H.P.		312.40		343.64	13.02	14.32
24 L.H., Daily Totals		\$1360.40		\$1933.64	\$56.68	\$80.57
<b>Crew B-6A</b>						
.5 Labor Foreman (outside)	\$41.85	\$167.40	\$63.75	\$255.00	\$45.81	\$69.45
1 Laborer	39.85	318.80	60.70	485.60		
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
1 Vacuum Truck, 5000 Gal.		358.90		394.79	17.95	19.74
20 L.H., Daily Totals		\$1275.10		\$1783.79	\$63.76	\$89.19
<b>Crew B-6B</b>						
2 Labor Foremen (outside)	\$41.85	\$669.60	\$63.75	\$1020.00	\$40.52	\$61.72
4 Laborers	39.85	1275.20	60.70	1942.40		
1 S.P. Crane, 4x4, 5 Ton		259.00		284.90		
1 Flatbed Truck, Gas, 1.5 Ton		188.40		207.24		
1 Butt Fusion Mach., 4"-12" diam.		425.70		468.27	18.19	20.01
48 L.H., Daily Totals		\$2817.90		\$3922.81	\$58.71	\$81.73
<b>Crew B-6C</b>						
2 Labor Foremen (outside)	\$41.85	\$669.60	\$63.75	\$1020.00	\$40.52	\$61.72
4 Laborers	39.85	1275.20	60.70	1942.40		
1 S.P. Crane, 4x4, 12 Ton		363.60		399.96		
1 Flatbed Truck, Gas, 3 Ton		238.00		261.80		
1 Butt Fusion Mach., 8"-24" diam.		1908.00		2098.80	52.28	57.51
48 L.H., Daily Totals		\$4454.40		\$5722.96	\$92.80	\$119.23
<b>Crew B-7</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$42.50	\$64.60
4 Laborers	39.85	1275.20	60.70	1942.40		
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
1 Brush Chipper, 12", 130 H.P.		393.00		432.30		
1 Crawler Loader, 3 C.Y.		1204.00		1324.40		
2 Chain Saws, Gas, 36" Long		92.80		102.08	35.20	38.72
48 L.H., Daily Totals		\$3729.80		\$4959.58	\$77.70	\$103.32

# Crews - Standard

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-7A</b>						
2 Laborers	\$39.85	\$637.60	\$60.70	\$971.20	\$43.67	\$66.25
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Rake w/Tractor		331.30		364.43		
2 Chain Saws, Gas, 18"		55.60		61.16	16.12	17.73
24 L.H., Daily Totals		\$1434.90		\$2015.59	\$59.79	\$83.98
<b>Crew B-7B</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$43.00	\$65.27
4 Laborers	39.85	1275.20	60.70	1942.40		
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
1 Truck Driver (heavy)	46.00	368.00	69.30	554.40		
1 Brush Chipper, 12", 130 H.P.		393.00		432.30		
1 Crawler Loader, 3 C.Y.		1204.00		1324.40		
2 Chain Saws, Gas, 36" Long		92.80		102.08		
1 Dump Truck, 8 C.Y., 220 H.P.		338.60		372.46	36.22	39.84
56 L.H., Daily Totals		\$4436.40		\$5886.44	\$79.22	\$105.11
<b>Crew B-7C</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$43.00	\$65.27
4 Laborers	39.85	1275.20	60.70	1942.40		
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
1 Truck Driver (heavy)	46.00	368.00	69.30	554.40		
1 Brush Chipper, 12", 130 H.P.		393.00		432.30		
1 Crawler Loader, 3 C.Y.		1204.00		1324.40		
2 Chain Saws, Gas, 36" Long		92.80		102.08		
1 Dump Truck, 12 C.Y., 400 H.P.		542.80		597.08	39.87	43.85
56 L.H., Daily Totals		\$4640.60		\$6111.06	\$82.87	\$109.13
<b>Crew B-8</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$46.21	\$69.89
2 Laborers	39.85	637.60	60.70	971.20		
2 Equip. Oper. (medium)	53.75	860.00	81.05	1296.80		
1 Equip. Oper. (oilier)	48.60	388.80	73.30	586.40		
2 Truck Drivers (heavy)	46.00	736.00	69.30	1108.80		
1 Hyd. Crane, 25 Ton		590.60		649.66		
1 Crawler Loader, 3 C.Y.		1204.00		1324.40		
2 Dump Trucks, 12 C.Y., 400 H.P.		1085.60		1194.16	45.00	49.50
64 L.H., Daily Totals		\$5837.40		\$7641.42	\$91.21	\$119.40
<b>Crew B-9</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$40.25	\$61.31
4 Laborers	39.85	1275.20	60.70	1942.40		
1 Air Compressor, 250 cfm		167.40		184.14		
2 Breakers, Pavement, 60 lb.		21.20		23.32		
2 -50' Air Hoses, 1.5"		45.40		49.94	5.85	6.43
40 L.H., Daily Totals		\$1844.00		\$2709.80	\$46.10	\$67.75
<b>Crew B-9A</b>						
2 Laborers	\$39.85	\$637.60	\$60.70	\$971.20	\$41.90	\$63.57
1 Truck Driver (heavy)	46.00	368.00	69.30	554.40		
1 Water Tank Trailer, 5000 Gal.		147.60		162.36		
1 Truck Tractor, 220 H.P.		290.00		319.00		
2 -50' Discharge Hoses, 3"		3.00		3.30	18.36	20.19
24 L.H., Daily Totals		\$1446.20		\$2010.26	\$60.26	\$83.76

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-9B</b>						
2 Laborers	\$39.85	\$637.60	\$60.70	\$971.20	\$41.90	\$63.57
1 Truck Driver (heavy)	46.00	368.00	69.30	554.40		
2 -50' Discharge Hoses, 3"		3.00		3.30		
1 Water Tank Trailer, 5000 Gal.		147.60		162.36		
1 Truck Tractor, 220 H.P.		290.00		319.00		
1 Pressure Washer		63.60		69.96	21.01	23.11
24 L.H., Daily Totals		\$1509.80		\$2080.22	\$62.91	\$86.68
<b>Crew B-9D</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$40.25	\$61.31
4 Common Laborers	39.85	1275.20	60.70	1942.40		
1 Air Compressor, 250 cfm		167.40		184.14		
2 -50' Air Hoses, 1.5"		45.40		49.94		
2 Air Powered Tampers		56.60		62.26	6.74	7.41
40 L.H., Daily Totals		\$1879.40		\$2748.74	\$46.98	\$68.72
<b>Crew B-10</b>						
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.12	\$74.27
.5 Laborer	39.85	159.40	60.70	242.80		
12 L.H., Daily Totals		\$589.40		\$891.20	\$49.12	\$74.27
<b>Crew B-10A</b>						
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.12	\$74.27
.5 Laborer	39.85	159.40	60.70	242.80		
1 Roller, 2Drum, W.B., 7.5 H.P.		179.60		197.56	14.97	16.46
12 L.H., Daily Totals		\$769.00		\$1088.76	\$64.08	\$90.73
<b>Crew B-10B</b>						
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.12	\$74.27
.5 Laborer	39.85	159.40	60.70	242.80		
1 Dozer, 200 H.P.		1273.00		1400.30	106.08	116.69
12 L.H., Daily Totals		\$1862.40		\$2291.50	\$155.20	\$190.96
<b>Crew B-10C</b>						
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.12	\$74.27
.5 Laborer	39.85	159.40	60.70	242.80		
1 Dozer, 200 H.P.		1273.00		1400.30		
1 Vibratory Roller, Towed, 23 Ton		423.00		465.30	141.33	155.47
12 L.H., Daily Totals		\$2285.40		\$2756.80	\$190.45	\$229.73
<b>Crew B-10D</b>						
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.12	\$74.27
.5 Laborer	39.85	159.40	60.70	242.80		
1 Dozer, 200 H.P.		1273.00		1400.30		
1 Sheepsft. Roller, Towed		425.80		468.38	141.57	155.72
12 L.H., Daily Totals		\$2288.20		\$2759.88	\$190.68	\$229.99
<b>Crew B-10E</b>						
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.12	\$74.27
.5 Laborer	39.85	159.40	60.70	242.80		
1 Tandem Roller, 5 Ton		151.20		166.32	12.60	13.86
12 L.H., Daily Totals		\$740.60		\$1057.52	\$61.72	\$88.13
<b>Crew B-10F</b>						
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.12	\$74.27
.5 Laborer	39.85	159.40	60.70	242.80		
1 Tandem Roller, 10 Ton		231.40		254.54	19.28	21.21
12 L.H., Daily Totals		\$820.80		\$1145.74	\$68.40	\$95.48

# Crews - Standard

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-10G</b>						
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.12	\$74.27
.5 Laborer	39.85	159.40	60.70	242.80		
1 Sheepfoot Roller, 240 H.P.		1316.00		1447.60	109.67	120.63
12 L.H., Daily Totals		\$1905.40		\$2338.80	\$158.78	\$194.90
<b>Crew B-10H</b>						
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.12	\$74.27
.5 Laborer	39.85	159.40	60.70	242.80		
1 Diaphragm Water Pump, 2"		73.00		80.30		
1 -20' Suction Hose, 2"		1.95		2.15		
2 -50' Discharge Hoses, 2"		1.80		1.98	6.40	7.04
12 L.H., Daily Totals		\$666.15		\$975.63	\$55.51	\$81.30
<b>Crew B-10I</b>						
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.12	\$74.27
.5 Laborer	39.85	159.40	60.70	242.80		
1 Diaphragm Water Pump, 4"		114.80		126.28		
1 -20' Suction Hose, 4"		3.25		3.58		
2 -50' Discharge Hoses, 4"		4.70		5.17	10.23	11.25
12 L.H., Daily Totals		\$712.15		\$1026.22	\$59.35	\$85.52
<b>Crew B-10J</b>						
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.12	\$74.27
.5 Laborer	39.85	159.40	60.70	242.80		
1 Centrifugal Water Pump, 3"		79.20		87.12		
1 -20' Suction Hose, 3"		2.85		3.13		
2 -50' Discharge Hoses, 3"		3.00		3.30	7.09	7.80
12 L.H., Daily Totals		\$674.45		\$984.76	\$56.20	\$82.06
<b>Crew B-10K</b>						
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.12	\$74.27
.5 Laborer	39.85	159.40	60.70	242.80		
1 Centr. Water Pump, 6"		296.40		326.04		
1 -20' Suction Hose, 6"		11.50		12.65		
2 -50' Discharge Hoses, 6"		12.20		13.42	26.68	29.34
12 L.H., Daily Totals		\$909.50		\$1243.31	\$75.79	\$103.61
<b>Crew B-10L</b>						
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.12	\$74.27
.5 Laborer	39.85	159.40	60.70	242.80		
1 Dozer, 80 H.P.		464.40		510.84	38.70	42.57
12 L.H., Daily Totals		\$1053.80		\$1402.04	\$87.82	\$116.84
<b>Crew B-10M</b>						
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.12	\$74.27
.5 Laborer	39.85	159.40	60.70	242.80		
1 Dozer, 300 H.P.		1829.00		2011.90	152.42	167.66
12 L.H., Daily Totals		\$2418.40		\$2903.10	\$201.53	\$241.93
<b>Crew B-10N</b>						
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.12	\$74.27
.5 Laborer	39.85	159.40	60.70	242.80		
1 F.E. Loader, T.M., 1.5 C.Y.		579.80		637.78	48.32	53.15
12 L.H., Daily Totals		\$1169.20		\$1528.98	\$97.43	\$127.42
<b>Crew B-10O</b>						
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.12	\$74.27
.5 Laborer	39.85	159.40	60.70	242.80		
1 F.E. Loader, T.M., 2.25 C.Y.		979.00		1076.90	81.58	89.74
12 L.H., Daily Totals		\$1568.40		\$1968.10	\$130.70	\$164.01

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-10P</b>						
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.12	\$74.27
.5 Laborer	39.85	159.40	60.70	242.80		
1 Crawler Loader, 3 C.Y.		1204.00		1324.40	100.33	110.37
12 L.H., Daily Totals		\$1793.40		\$2215.60	\$149.45	\$184.63
<b>Crew B-10Q</b>						
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.12	\$74.27
.5 Laborer	39.85	159.40	60.70	242.80		
1 Crawler Loader, 4 C.Y.		1459.00		1604.90	121.58	133.74
12 L.H., Daily Totals		\$2048.40		\$2496.10	\$170.70	\$208.01
<b>Crew B-10R</b>						
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.12	\$74.27
.5 Laborer	39.85	159.40	60.70	242.80		
1 F.E. Loader, W.M., 1 C.Y.		290.80		319.88	24.23	26.66
12 L.H., Daily Totals		\$880.20		\$1211.08	\$73.35	\$100.92
<b>Crew B-10S</b>						
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.12	\$74.27
.5 Laborer	39.85	159.40	60.70	242.80		
1 F.E. Loader, W.M., 1.5 C.Y.		342.80		377.08	28.57	31.42
12 L.H., Daily Totals		\$932.20		\$1268.28	\$77.68	\$105.69
<b>Crew B-10T</b>						
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.12	\$74.27
.5 Laborer	39.85	159.40	60.70	242.80		
1 F.E. Loader, W.M., 2.5 C.Y.		523.20		575.52	43.60	47.96
12 L.H., Daily Totals		\$1112.60		\$1466.72	\$92.72	\$122.23
<b>Crew B-10U</b>						
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.12	\$74.27
.5 Laborer	39.85	159.40	60.70	242.80		
1 F.E. Loader, W.M., 5.5 C.Y.		982.20		1080.42	81.85	90.03
12 L.H., Daily Totals		\$1571.60		\$1971.62	\$130.97	\$164.30
<b>Crew B-10V</b>						
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.12	\$74.27
.5 Laborer	39.85	159.40	60.70	242.80		
1 Dozer, 700 H.P.		4999.00		5498.90	416.58	458.24
12 L.H., Daily Totals		\$5588.40		\$6390.10	\$465.70	\$532.51
<b>Crew B-10W</b>						
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.12	\$74.27
.5 Laborer	39.85	159.40	60.70	242.80		
1 Dozer, 105 H.P.		608.00		668.80	50.67	55.73
12 L.H., Daily Totals		\$1197.40		\$1560.00	\$99.78	\$130.00
<b>Crew B-10X</b>						
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.12	\$74.27
.5 Laborer	39.85	159.40	60.70	242.80		
1 Dozer, 410 H.P.		2291.00		2520.10	190.92	210.01
12 L.H., Daily Totals		\$2880.40		\$3411.30	\$240.03	\$284.27
<b>Crew B-10Y</b>						
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.12	\$74.27
.5 Laborer	39.85	159.40	60.70	242.80		
1 Vibr. Roller, Towed, 12 Ton		576.40		634.04	48.03	52.84
12 L.H., Daily Totals		\$1165.80		\$1525.24	\$97.15	\$127.10

# Crews - Standard

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-11A</b>						
1 Equipment Oper. (med.)	\$53.75	\$430.00	\$81.05	\$648.40	\$46.80	\$70.88
1 Laborer	39.85	318.80	60.70	485.60		
1 Dozer, 200 H.P.		1273.00		1400.30	79.56	87.52
16 L.H., Daily Totals		\$2021.80		\$2534.30	\$126.36	\$158.39
<b>Crew B-11B</b>						
1 Equipment Oper. (light)	\$51.30	\$410.40	\$77.35	\$618.80	\$45.58	\$69.03
1 Laborer	39.85	318.80	60.70	485.60		
1 Air Powered Tamper		28.30		31.13		
1 Air Compressor, 365 cfm		211.40		232.54		
2 -50' Air Hoses, 1.5"		45.40		49.94	17.82	19.60
16 L.H., Daily Totals		\$1014.30		\$1418.01	\$63.39	\$88.63
<b>Crew B-11C</b>						
1 Equipment Oper. (med.)	\$53.75	\$430.00	\$81.05	\$648.40	\$46.80	\$70.88
1 Laborer	39.85	318.80	60.70	485.60		
1 Backhoe Loader, 48 H.P.		312.40		343.64	19.52	21.48
16 L.H., Daily Totals		\$1061.20		\$1477.64	\$66.33	\$92.35
<b>Crew B-11J</b>						
1 Equipment Oper. (med.)	\$53.75	\$430.00	\$81.05	\$648.40	\$46.80	\$70.88
1 Laborer	39.85	318.80	60.70	485.60		
1 Grader, 30,000 Lbs.		643.80		708.18		
1 Ripper, Beam & 1 Shank		87.80		96.58	45.73	50.30
16 L.H., Daily Totals		\$1480.40		\$1938.76	\$92.53	\$121.17
<b>Crew B-11K</b>						
1 Equipment Oper. (med.)	\$53.75	\$430.00	\$81.05	\$648.40	\$46.80	\$70.88
1 Laborer	39.85	318.80	60.70	485.60		
1 Trencher, Chain Type, 8' D		2048.00		2252.80	128.00	140.80
16 L.H., Daily Totals		\$2796.80		\$3386.80	\$174.80	\$211.68
<b>Crew B-11L</b>						
1 Equipment Oper. (med.)	\$53.75	\$430.00	\$81.05	\$648.40	\$46.80	\$70.88
1 Laborer	39.85	318.80	60.70	485.60		
1 Grader, 30,000 Lbs.		643.80		708.18	40.24	44.26
16 L.H., Daily Totals		\$1392.60		\$1842.18	\$87.04	\$115.14
<b>Crew B-11M</b>						
1 Equipment Oper. (med.)	\$53.75	\$430.00	\$81.05	\$648.40	\$46.80	\$70.88
1 Laborer	39.85	318.80	60.70	485.60		
1 Backhoe Loader, 80 H.P.		385.00		423.50	24.06	26.47
16 L.H., Daily Totals		\$1133.80		\$1557.50	\$70.86	\$97.34
<b>Crew B-11N</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$47.26	\$71.29
2 Equipment Operators (med.)	53.75	860.00	81.05	1296.80		
6 Truck Drivers (heavy)	46.00	2208.00	69.30	3326.40		
1 F.E. Loader, W.M., 5.5 C.Y.		982.20		1080.42		
1 Dozer, 410 H.P.		2291.00		2520.10		
6 Dump Trucks, Off Hwy., 50 Ton		9972.00		10969.20	183.96	202.36
72 L.H., Daily Totals		\$16648.00		\$19702.92	\$231.22	\$273.65
<b>Crew B-11Q</b>						
1 Equipment Operator (med.)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.12	\$74.27
.5 Laborer	39.85	159.40	60.70	242.80		
1 Dozer, 140 H.P.		845.60		930.16	70.47	77.51
12 L.H., Daily Totals		\$1435.00		\$1821.36	\$119.58	\$151.78

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-11R</b>						
1 Equipment Operator (med.)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.12	\$74.27
.5 Laborer	39.85	159.40	60.70	242.80		
1 Dozer, 200 H.P.		1273.00		1400.30	106.08	116.69
12 L.H., Daily Totals		\$1862.40		\$2291.50	\$155.20	\$190.96
<b>Crew B-11S</b>						
1 Equipment Operator (med.)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.12	\$74.27
.5 Laborer	39.85	159.40	60.70	242.80		
1 Dozer, 300 H.P.		1829.00		2011.90		
1 Ripper, Beam & 1 Shank		87.80		96.58	159.73	175.71
12 L.H., Daily Totals		\$2506.20		\$2999.68	\$208.85	\$249.97
<b>Crew B-11T</b>						
1 Equipment Operator (med.)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.12	\$74.27
.5 Laborer	39.85	159.40	60.70	242.80		
1 Dozer, 410 H.P.		2291.00		2520.10		
1 Ripper, Beam & 2 Shanks		132.60		145.86	201.97	222.16
12 L.H., Daily Totals		\$3013.00		\$3557.16	\$251.08	\$296.43
<b>Crew B-11U</b>						
1 Equipment Operator (med.)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.12	\$74.27
.5 Laborer	39.85	159.40	60.70	242.80		
1 Dozer, 520 H.P.		2818.00		3099.80	234.83	258.32
12 L.H., Daily Totals		\$3407.40		\$3991.00	\$283.95	\$332.58
<b>Crew B-11V</b>						
3 Laborers	\$39.85	\$956.40	\$60.70	\$1456.80	\$39.85	\$60.70
1 Roller, 2-Drum, W.B., 7.5 H.P.		179.60		197.56	7.48	8.23
24 L.H., Daily Totals		\$1136.00		\$1654.36	\$47.33	\$68.93
<b>Crew B-11W</b>						
1 Equipment Operator (med.)	\$53.75	\$430.00	\$81.05	\$648.40	\$46.13	\$69.56
1 Common Laborer	39.85	318.80	60.70	485.60		
10 Truck Drivers (heavy)	46.00	3680.00	69.30	5544.00		
1 Dozer, 200 H.P.		1273.00		1400.30		
1 Vibratory Roller, Towed, 23 Ton		423.00		465.30		
10 Dump Trucks, 8 C.Y., 220 H.P.		3386.00		3724.60	52.94	58.23
96 L.H., Daily Totals		\$9510.80		\$12268.20	\$99.07	\$127.79
<b>Crew B-11Y</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$44.71	\$67.82
5 Common Laborers	39.85	1594.00	60.70	2428.00		
3 Equipment Operators (med.)	53.75	1290.00	81.05	1945.20		
1 Dozer, 80 H.P.		464.40		510.84		
2 Rollers, 2-Drums, W.B., 7.5 H.P.		359.20		395.12		
4 Vibrating Plates, Gas, 21"		162.40		178.64	13.69	15.06
72 L.H., Daily Totals		\$4204.80		\$5967.80	\$58.40	\$82.89
<b>Crew B-12A</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$47.98	\$72.65
1 Laborer	39.85	318.80	60.70	485.60		
1 Hyd. Excavator, 1 C.Y.		742.20		816.42	46.39	51.03
16 L.H., Daily Totals		\$1509.80		\$1978.82	\$94.36	\$123.68
<b>Crew B-12B</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$47.98	\$72.65
1 Laborer	39.85	318.80	60.70	485.60		
1 Hyd. Excavator, 1.5 C.Y.		893.60		982.96	55.85	61.44
16 L.H., Daily Totals		\$1661.20		\$2145.36	\$103.83	\$134.09

# Crews - Standard

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-12C</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$47.98	\$72.65
1 Laborer	39.85	318.80	60.70	485.60		
1 Hyd. Excavator, 2 C.Y.		1052.00		1157.20	65.75	72.33
16 L.H., Daily Totals		\$1819.60		\$2319.60	\$113.72	\$144.97
<b>Crew B-12D</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$47.98	\$72.65
1 Laborer	39.85	318.80	60.70	485.60		
1 Hyd. Excavator, 3.5 C.Y.		2195.00		2414.50	137.19	150.91
16 L.H., Daily Totals		\$2962.60		\$3576.90	\$185.16	\$223.56
<b>Crew B-12E</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$47.98	\$72.65
1 Laborer	39.85	318.80	60.70	485.60		
1 Hyd. Excavator, .5 C.Y.		435.40		478.94	27.21	29.93
16 L.H., Daily Totals		\$1203.00		\$1641.34	\$75.19	\$102.58
<b>Crew B-12F</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$47.98	\$72.65
1 Laborer	39.85	318.80	60.70	485.60		
1 Hyd. Excavator, .75 C.Y.		669.60		736.56	41.85	46.03
16 L.H., Daily Totals		\$1437.20		\$1898.96	\$89.83	\$118.69
<b>Crew B-12G</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$47.98	\$72.65
1 Laborer	39.85	318.80	60.70	485.60		
1 Crawler Crane, 15 Ton		828.80		911.68		
1 Clamshell Bucket, .5 C.Y.		41.00		45.10	54.36	59.80
16 L.H., Daily Totals		\$1637.40		\$2119.18	\$102.34	\$132.45
<b>Crew B-12H</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$47.98	\$72.65
1 Laborer	39.85	318.80	60.70	485.60		
1 Crawler Crane, 25 Ton		1348.00		1482.80		
1 Clamshell Bucket, 1 C.Y.		50.60		55.66	87.41	96.15
16 L.H., Daily Totals		\$2166.20		\$2700.86	\$135.39	\$168.80
<b>Crew B-12I</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$47.98	\$72.65
1 Laborer	39.85	318.80	60.70	485.60		
1 Crawler Crane, 20 Ton		1060.00		1166.00		
1 Dragline Bucket, .75 C.Y.		21.80		23.98	67.61	74.37
16 L.H., Daily Totals		\$1849.40		\$2352.38	\$115.59	\$147.02
<b>Crew B-12J</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$47.98	\$72.65
1 Laborer	39.85	318.80	60.70	485.60		
1 Gradall, 5/8 C.Y.		869.60		956.56	54.35	59.78
16 L.H., Daily Totals		\$1637.20		\$2118.96	\$102.33	\$132.44
<b>Crew B-12K</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$47.98	\$72.65
1 Laborer	39.85	318.80	60.70	485.60		
1 Gradall, 3 Ton, 1 C.Y.		1243.00		1367.30	77.69	85.46
16 L.H., Daily Totals		\$2010.60		\$2529.70	\$125.66	\$158.11

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-12L</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$47.98	\$72.65
1 Laborer	39.85	318.80	60.70	485.60		
1 Crawler Crane, 15 Ton		828.80		911.68		
1 F.E. Attachment, .5 C.Y.		64.60		71.06	55.84	61.42
16 L.H., Daily Totals		\$1661.00		\$2145.14	\$103.81	\$134.07
<b>Crew B-12M</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$47.98	\$72.65
1 Laborer	39.85	318.80	60.70	485.60		
1 Crawler Crane, 20 Ton		1060.00		1166.00		
1 F.E. Attachment, .75 C.Y.		69.00		75.90	70.56	77.62
16 L.H., Daily Totals		\$1896.60		\$2404.30	\$118.54	\$150.27
<b>Crew B-12N</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$47.98	\$72.65
1 Laborer	39.85	318.80	60.70	485.60		
1 Crawler Crane, 25 Ton		1348.00		1482.80		
1 F.E. Attachment, 1 C.Y.		75.80		83.38	88.99	97.89
16 L.H., Daily Totals		\$2191.40		\$2728.58	\$136.96	\$170.54
<b>Crew B-12O</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$47.98	\$72.65
1 Laborer	39.85	318.80	60.70	485.60		
1 Crawler Crane, 40 Ton		1370.00		1507.00		
1 F.E. Attachment, 1.5 C.Y.		85.00		93.50	90.94	100.03
16 L.H., Daily Totals		\$2222.60		\$2762.90	\$138.91	\$172.68
<b>Crew B-12P</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$47.98	\$72.65
1 Laborer	39.85	318.80	60.70	485.60		
1 Crawler Crane, 40 Ton		1370.00		1507.00		
1 Dragline Bucket, 1.5 C.Y.		35.40		38.94	87.84	96.62
16 L.H., Daily Totals		\$2173.00		\$2708.34	\$135.81	\$169.27
<b>Crew B-12Q</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$47.98	\$72.65
1 Laborer	39.85	318.80	60.70	485.60		
1 Hyd. Excavator, 5/8 C.Y.		576.80		634.48	36.05	39.66
16 L.H., Daily Totals		\$1344.40		\$1796.88	\$84.03	\$112.31
<b>Crew B-12S</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$47.98	\$72.65
1 Laborer	39.85	318.80	60.70	485.60		
1 Hyd. Excavator, 2.5 C.Y.		1411.00		1552.10	88.19	97.01
16 L.H., Daily Totals		\$2178.60		\$2714.50	\$136.16	\$169.66
<b>Crew B-12T</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$47.98	\$72.65
1 Laborer	39.85	318.80	60.70	485.60		
1 Crawler Crane, 75 Ton		1708.00		1878.80		
1 F.E. Attachment, 3 C.Y.		108.80		119.68	113.55	124.91
16 L.H., Daily Totals		\$2584.40		\$3160.88	\$161.53	\$197.56
<b>Crew B-12V</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$47.98	\$72.65
1 Laborer	39.85	318.80	60.70	485.60		
1 Crawler Crane, 75 Ton		1708.00		1878.80		
1 Dragline Bucket, 3 C.Y.		55.80		61.38	110.24	121.26
16 L.H., Daily Totals		\$2531.40		\$3102.58	\$158.21	\$193.91

# Crews - Standard

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-12Y</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$45.27	\$68.67
2 Laborers	39.85	637.60	60.70	971.20		
1 Hyd. Excavator, 3.5 C.Y.		2195.00		2414.50	91.46	100.60
24 L.H., Daily Totals		\$3281.40		\$4062.50	\$136.72	\$169.27
<b>Crew B-12Z</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$45.27	\$68.67
2 Laborers	39.85	637.60	60.70	971.20		
1 Hyd. Excavator, 2.5 C.Y.		1411.00		1552.10	58.79	64.67
24 L.H., Daily Totals		\$2497.40		\$3200.10	\$104.06	\$133.34
<b>Crew B-13</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$43.71	\$66.35
4 Laborers	39.85	1275.20	60.70	1942.40		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
1 Hyd. Crane, 25 Ton		590.60		649.66	10.55	11.60
56 L.H., Daily Totals		\$3038.20		\$4365.26	\$54.25	\$77.95
<b>Crew B-13A</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$45.86	\$69.41
2 Laborers	39.85	637.60	60.70	971.20		
2 Equipment Operators (med.)	53.75	860.00	81.05	1296.80		
2 Truck Drivers (heavy)	46.00	736.00	69.30	1108.80		
1 Crawler Crane, 75 Ton		1708.00		1878.80		
1 Crawler Loader, 4 C.Y.		1459.00		1604.90		
2 Dump Trucks, 8 C.Y., 220 H.P.		677.20		744.92	68.65	75.51
56 L.H., Daily Totals		\$6412.60		\$8115.42	\$114.51	\$144.92
<b>Crew B-13B</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$43.71	\$66.35
4 Laborers	39.85	1275.20	60.70	1942.40		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
1 Hyd. Crane, 55 Ton		993.80		1093.18	17.75	19.52
56 L.H., Daily Totals		\$3441.40		\$4808.78	\$61.45	\$85.87
<b>Crew B-13C</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$43.71	\$66.35
4 Laborers	39.85	1275.20	60.70	1942.40		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
1 Crawler Crane, 100 Ton		1872.00		2059.20	33.43	36.77
56 L.H., Daily Totals		\$4319.60		\$5774.80	\$77.14	\$103.12
<b>Crew B-13D</b>						
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$47.98	\$72.65
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Hyd. Excavator, 1 C.Y.		742.20		816.42		
1 Trench Box		81.00		89.10	51.45	56.59
16 L.H., Daily Totals		\$1590.80		\$2067.92	\$99.42	\$129.25
<b>Crew B-13E</b>						
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$47.98	\$72.65
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Hyd. Excavator, 1.5 C.Y.		893.60		982.96		
1 Trench Box		81.00		89.10	60.91	67.00
16 L.H., Daily Totals		\$1742.20		\$2234.46	\$108.89	\$139.65

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-13F</b>						
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$47.98	\$72.65
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Hyd. Excavator, 3.5 C.Y.		2195.00		2414.50		
1 Trench Box		81.00		89.10	142.25	156.47
16 L.H., Daily Totals		\$3043.60		\$3666.00	\$190.22	\$229.13
<b>Crew B-13G</b>						
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$47.98	\$72.65
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Hyd. Excavator, .75 C.Y.		669.60		736.56		
1 Trench Box		81.00		89.10	46.91	51.60
16 L.H., Daily Totals		\$1518.20		\$1988.06	\$94.89	\$124.25
<b>Crew B-13H</b>						
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$47.98	\$72.65
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Gradall, 5/8 C.Y.		869.60		956.56		
1 Trench Box		81.00		89.10	59.41	65.35
16 L.H., Daily Totals		\$1718.20		\$2208.06	\$107.39	\$138.00
<b>Crew B-13I</b>						
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$47.98	\$72.65
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Gradall, 3 Ton, 1 C.Y.		1243.00		1367.30		
1 Trench Box		81.00		89.10	82.75	91.03
16 L.H., Daily Totals		\$2091.60		\$2618.80	\$130.72	\$163.68
<b>Crew B-13J</b>						
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$47.98	\$72.65
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Hyd. Excavator, 2.5 C.Y.		1411.00		1552.10		
1 Trench Box		81.00		89.10	93.25	102.58
16 L.H., Daily Totals		\$2259.60		\$2803.60	\$141.22	\$175.22
<b>Crew B-13K</b>						
2 Equip. Oper. (crane)	\$56.10	\$897.60	\$84.60	\$1353.60	\$56.10	\$84.60
1 Hyd. Excavator, .75 C.Y.		669.60		736.56		
1 Hyd. Hammer, 4000 ft-lb		324.60		357.06		
1 Hyd. Excavator, .75 C.Y.		669.60		736.56	103.99	114.39
16 L.H., Daily Totals		\$2561.40		\$3183.78	\$160.09	\$198.99
<b>Crew B-13L</b>						
2 Equip. Oper. (crane)	\$56.10	\$897.60	\$84.60	\$1353.60	\$56.10	\$84.60
1 Hyd. Excavator, 1.5 C.Y.		893.60		982.96		
1 Hyd. Hammer, 5000 ft-lb		394.00		433.40		
1 Hyd. Excavator, .75 C.Y.		669.60		736.56	122.33	134.56
16 L.H., Daily Totals		\$2854.80		\$3506.52	\$178.43	\$219.16
<b>Crew B-13M</b>						
2 Equip. Oper. (crane)	\$56.10	\$897.60	\$84.60	\$1353.60	\$56.10	\$84.60
1 Hyd. Excavator, 2.5 C.Y.		1411.00		1552.10		
1 Hyd. Hammer, 8000 ft-lb		576.80		634.48		
1 Hyd. Excavator, 1.5 C.Y.		893.60		982.96	180.09	198.10
16 L.H., Daily Totals		\$3779.00		\$4523.14	\$236.19	\$282.70

# Crews - Standard

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-13N</b>						
2 Equip. Opers. (crane)	\$56.10	\$897.60	\$84.60	\$1353.60	\$56.10	\$84.60
1 Hyd. Excavator, 3.5 C.Y.		2195.00		2414.50		
1 Hyd. Hammer, 12,000 ft-lb		669.20		736.12		
1 Hyd. Excavator, 1.5 C.Y.		893.60		982.96	234.86	258.35
16 L.H., Daily Totals		\$4655.40		\$5487.18	\$290.96	\$342.95
<b>Crew B-14</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$42.09	\$63.98
4 Laborers	39.85	1275.20	60.70	1942.40		
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Backhoe Loader, 48 H.P.		312.40		343.64	6.51	7.16
48 L.H., Daily Totals		\$2332.80		\$3414.84	\$48.60	\$71.14
<b>Crew B-14A</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$50.68	\$76.63
.5 Laborer	39.85	159.40	60.70	242.80		
1 Hyd. Excavator, 4.5 C.Y.		2735.00		3008.50	227.92	250.71
12 L.H., Daily Totals		\$3343.20		\$3928.10	\$278.60	\$327.34
<b>Crew B-14B</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$50.68	\$76.63
.5 Laborer	39.85	159.40	60.70	242.80		
1 Hyd. Excavator, 6 C.Y.		3487.00		3835.70	290.58	319.64
12 L.H., Daily Totals		\$4095.20		\$4755.30	\$341.27	\$396.27
<b>Crew B-14C</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$50.68	\$76.63
.5 Laborer	39.85	159.40	60.70	242.80		
1 Hyd. Excavator, 7 C.Y.		3275.00		3602.50	272.92	300.21
12 L.H., Daily Totals		\$3883.20		\$4522.10	\$323.60	\$376.84
<b>Crew B-14F</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$50.68	\$76.63
.5 Laborer	39.85	159.40	60.70	242.80		
1 Hyd. Shovel, 7 C.Y.		3880.00		4268.00	323.33	355.67
12 L.H., Daily Totals		\$4488.20		\$5187.60	\$374.02	\$432.30
<b>Crew B-14G</b>						
1 Equip. Oper. (crane)	\$56.10	\$448.80	\$84.60	\$676.80	\$50.68	\$76.63
.5 Laborer	39.85	159.40	60.70	242.80		
1 Hyd. Shovel, 12 C.Y.		5769.00		6345.90	480.75	528.83
12 L.H., Daily Totals		\$6377.20		\$7265.50	\$531.43	\$605.46
<b>Crew B-14J</b>						
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.12	\$74.27
.5 Laborer	39.85	159.40	60.70	242.80		
1 F.E. Loader, 8 C.Y.		1780.00		1958.00	148.33	163.17
12 L.H., Daily Totals		\$2369.40		\$2849.20	\$197.45	\$237.43
<b>Crew B-14K</b>						
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.12	\$74.27
.5 Laborer	39.85	159.40	60.70	242.80		
1 F.E. Loader, 10 C.Y.		2630.00		2893.00	219.17	241.08
12 L.H., Daily Totals		\$3219.40		\$3784.20	\$268.28	\$315.35

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-15</b>						
1 Equipment Oper. (med.)	\$53.75	\$430.00	\$81.05	\$648.40	\$47.34	\$71.43
.5 Laborer	39.85	159.40	60.70	242.80		
2 Truck Drivers (heavy)	46.00	736.00	69.30	1108.80		
2 Dump Trucks, 12 C.Y., 400 H.P.		1085.60		1194.16		
1 Dozer, 200 H.P.		1273.00		1400.30	84.24	92.66
28 L.H., Daily Totals		\$3684.00		\$4594.46	\$131.57	\$164.09
<b>Crew B-16</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$41.89	\$63.61
2 Laborers	39.85	637.60	60.70	971.20		
1 Truck Driver (heavy)	46.00	368.00	69.30	554.40		
1 Dump Truck, 12 C.Y., 400 H.P.		542.80		597.08	16.96	18.66
32 L.H., Daily Totals		\$1883.20		\$2632.68	\$58.85	\$82.27
<b>Crew B-17</b>						
2 Laborers	\$39.85	\$637.60	\$60.70	\$971.20	\$44.25	\$67.01
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Truck Driver (heavy)	46.00	368.00	69.30	554.40		
1 Backhoe Loader, 48 H.P.		312.40		343.64		
1 Dump Truck, 8 C.Y., 220 H.P.		338.60		372.46	20.34	22.38
32 L.H., Daily Totals		\$2067.00		\$2860.50	\$64.59	\$89.39
<b>Crew B-17A</b>						
2 Labor Foremen (outside)	\$41.85	\$669.60	\$63.75	\$1020.00	\$42.95	\$65.50
6 Laborers	39.85	1912.80	60.70	2913.60		
1 Skilled Worker Foreman (out)	54.35	434.80	83.20	665.60		
1 Skilled Worker	52.35	418.80	80.15	641.20		
80 L.H., Daily Totals		\$3436.00		\$5240.40	\$42.95	\$65.50
<b>Crew B-17B</b>						
2 Laborers	\$39.85	\$637.60	\$60.70	\$971.20	\$44.25	\$67.01
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Truck Driver (heavy)	46.00	368.00	69.30	554.40		
1 Backhoe Loader, 48 H.P.		312.40		343.64		
1 Dump Truck, 12 C.Y., 400 H.P.		542.80		597.08	26.73	29.40
32 L.H., Daily Totals		\$2271.20		\$3085.12	\$70.97	\$96.41
<b>Crew B-18</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$40.52	\$61.72
2 Laborers	39.85	637.60	60.70	971.20		
1 Vibrating Plate, Gas, 21"		40.60		44.66	1.69	1.86
24 L.H., Daily Totals		\$1013.00		\$1525.86	\$42.21	\$63.58
<b>Crew B-19</b>						
1 Pile Driver Foreman (outside)	\$53.30	\$426.40	\$84.05	\$672.40	\$52.41	\$81.27
4 Pile Drivers	51.30	1641.60	80.90	2588.80		
2 Equip. Oper. (crane)	56.10	897.60	84.60	1353.60		
1 Equip. Oper. (oilier)	48.60	388.80	73.30	586.40		
1 Crawler Crane, 40 Ton		1370.00		1507.00		
1 Lead, 90' High		131.60		144.76		
1 Hammer, Diesel, 22k ft-lb		427.00		469.70	30.13	33.15
64 L.H., Daily Totals		\$5283.00		\$7322.66	\$82.55	\$114.42

# Crews - Standard

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-19A</b>						
1 Pile Driver Foreman (outside)	\$53.30	\$426.40	\$84.05	\$672.40	\$52.41	\$81.27
4 Pile Drivers	51.30	1641.60	80.90	2588.80		
2 Equip. Oper. (crane)	56.10	897.60	84.60	1353.60		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
1 Crawler Crane, 75 Ton		1708.00		1878.80		
1 Lead, 90' High		131.60		144.76		
1 Hammer, Diesel, 41k ft-lb		572.00		629.20	37.68	41.45
64 L.H., Daily Totals		\$5766.00		\$7853.96	\$90.09	\$122.72
<b>Crew B-19B</b>						
1 Pile Driver Foreman (outside)	\$53.30	\$426.40	\$84.05	\$672.40	\$52.41	\$81.27
4 Pile Drivers	51.30	1641.60	80.90	2588.80		
2 Equip. Oper. (crane)	56.10	897.60	84.60	1353.60		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
1 Crawler Crane, 40 Ton		1370.00		1507.00		
1 Lead, 90' High		131.60		144.76		
1 Hammer, Diesel, 22k ft-lb		427.00		469.70		
1 Barge, 400 Ton		835.40		918.94	43.19	47.51
64 L.H., Daily Totals		\$6118.40		\$8241.60	\$95.60	\$128.78
<b>Crew B-19C</b>						
1 Pile Driver Foreman (outside)	\$53.30	\$426.40	\$84.05	\$672.40	\$52.41	\$81.27
4 Pile Drivers	51.30	1641.60	80.90	2588.80		
2 Equip. Oper. (crane)	56.10	897.60	84.60	1353.60		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
1 Crawler Crane, 75 Ton		1708.00		1878.80		
1 Lead, 90' High		131.60		144.76		
1 Hammer, Diesel, 41k ft-lb		572.00		629.20		
1 Barge, 400 Ton		835.40		918.94	50.73	55.81
64 L.H., Daily Totals		\$6601.40		\$8772.90	\$103.15	\$137.08
<b>Crew B-20</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$44.68	\$68.20
1 Skilled Worker	52.35	418.80	80.15	641.20		
1 Laborer	39.85	318.80	60.70	485.60		
24 L.H., Daily Totals		\$1072.40		\$1636.80	\$44.68	\$68.20
<b>Crew B-20A</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$48.39	\$73.22
1 Laborer	39.85	318.80	60.70	485.60		
1 Plumber	62.15	497.20	93.60	748.80		
1 Plumber Apprentice	49.70	397.60	74.85	598.80		
32 L.H., Daily Totals		\$1548.40		\$2343.20	\$48.39	\$73.22
<b>Crew B-21</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$46.31	\$70.54
1 Skilled Worker	52.35	418.80	80.15	641.20		
1 Laborer	39.85	318.80	60.70	485.60		
.5 Equip. Oper. (crane)	56.10	224.40	84.60	338.40		
.5 S.P. Crane, 4x4, 5 Ton		129.50		142.45	4.63	5.09
28 L.H., Daily Totals		\$1426.30		\$2117.65	\$50.94	\$75.63
<b>Crew B-21A</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$49.93	\$75.50
1 Laborer	39.85	318.80	60.70	485.60		
1 Plumber	62.15	497.20	93.60	748.80		
1 Plumber Apprentice	49.70	397.60	74.85	598.80		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 S.P. Crane, 4x4, 12 Ton		363.60		399.96	9.09	10.00
40 L.H., Daily Totals		\$2360.80		\$3419.96	\$59.02	\$85.50

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-21B</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$43.50	\$66.09
3 Laborers	39.85	956.40	60.70	1456.80		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Hyd. Crane, 12 Ton		496.00		545.60	12.40	13.64
40 L.H., Daily Totals		\$2236.00		\$3189.20	\$55.90	\$79.73
<b>Crew B-21C</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$43.71	\$66.35
4 Laborers	39.85	1275.20	60.70	1942.40		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
2 Cutting Torches		25.20		27.72		
2 Sets of Gases		336.00		369.60		
1 Lattice Boom Crane, 90 Ton		1687.00		1855.70	36.58	40.23
56 L.H., Daily Totals		\$4495.80		\$5968.62	\$80.28	\$106.58
<b>Crew B-22</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$46.97	\$71.48
1 Skilled Worker	52.35	418.80	80.15	641.20		
1 Laborer	39.85	318.80	60.70	485.60		
.75 Equip. Oper. (crane)	56.10	336.60	84.60	507.60		
.75 S.P. Crane, 4x4, 5 Ton		194.25		213.68	6.47	7.12
30 L.H., Daily Totals		\$1603.25		\$2358.07	\$53.44	\$78.60
<b>Crew B-22A</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$46.00	\$69.98
1 Skilled Worker	52.35	418.80	80.15	641.20		
2 Laborers	39.85	637.60	60.70	971.20		
1 Equipment Operator, Crane	56.10	448.80	84.60	676.80		
1 S.P. Crane, 4x4, 5 Ton		259.00		284.90		
1 Butt Fusion Mach., 4"-12" diam.		425.70		468.27	17.12	18.83
40 L.H., Daily Totals		\$2524.70		\$3552.37	\$63.12	\$88.81
<b>Crew B-22B</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$46.00	\$69.98
1 Skilled Worker	52.35	418.80	80.15	641.20		
2 Laborers	39.85	637.60	60.70	971.20		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 S.P. Crane, 4x4, 5 Ton		259.00		284.90		
1 Butt Fusion Mach., 8"-24" diam.		1908.00		2098.80	54.17	59.59
40 L.H., Daily Totals		\$4007.00		\$5182.90	\$100.18	\$129.57
<b>Crew B-22C</b>						
1 Skilled Worker	\$52.35	\$418.80	\$80.15	\$641.20	\$46.10	\$70.42
1 Laborer	39.85	318.80	60.70	485.60		
1 Butt Fusion Mach., 2"-8" diam.		121.05		133.16	7.57	8.32
16 L.H., Daily Totals		\$858.65		\$1259.95	\$53.67	\$78.75
<b>Crew B-23</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$40.25	\$61.31
4 Laborers	39.85	1275.20	60.70	1942.40		
1 Drill Rig, Truck-Mounted		2444.00		2688.40		
1 Flatbed Truck, Gas, 3 Ton		238.00		261.80	67.05	73.75
40 L.H., Daily Totals		\$4292.00		\$5402.60	\$107.30	\$135.07

# Crews - Standard

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-23A</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$45.15	\$68.50
1 Laborer	39.85	318.80	60.70	485.60		
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
1 Drill Rig, Truck-Mounted		2444.00		2688.40		
1 Pickup Truck, 3/4 Ton		115.20		126.72	106.63	117.30
24 L.H., Daily Totals		\$3642.80		\$4459.12	\$151.78	\$185.80
<b>Crew B-23B</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$45.15	\$68.50
1 Laborer	39.85	318.80	60.70	485.60		
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
1 Drill Rig, Truck-Mounted		2444.00		2688.40		
1 Pickup Truck, 3/4 Ton		115.20		126.72		
1 Centr. Water Pump, 6"		296.40		326.04	118.98	130.88
24 L.H., Daily Totals		\$3939.20		\$4785.16	\$164.13	\$199.38
<b>Crew B-24</b>						
1 Cement Finisher	\$47.55	\$380.40	\$70.45	\$563.60	\$46.03	\$69.45
1 Laborer	39.85	318.80	60.70	485.60		
1 Carpenter	50.70	405.60	77.20	617.60		
24 L.H., Daily Totals		\$1104.80		\$1666.80	\$46.03	\$69.45
<b>Crew B-25</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$43.82	\$66.53
7 Laborers	39.85	2231.60	60.70	3399.20		
3 Equip. Oper. (medium)	53.75	1290.00	81.05	1945.20		
1 Asphalt Paver, 130 H.P.		2123.00		2335.30		
1 Tandem Roller, 10 Ton		231.40		254.54		
1 Roller, Pneum. Whl., 12 Ton		338.20		372.02	30.60	33.66
88 L.H., Daily Totals		\$6549.00		\$8816.26	\$74.42	\$100.18
<b>Crew B-25B</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$44.65	\$67.74
7 Laborers	39.85	2231.60	60.70	3399.20		
4 Equip. Oper. (medium)	53.75	1720.00	81.05	2593.60		
1 Asphalt Paver, 130 H.P.		2123.00		2335.30		
2 Tandem Rollers, 10 Ton		462.80		509.08		
1 Roller, Pneum. Whl., 12 Ton		338.20		372.02	30.46	33.50
96 L.H., Daily Totals		\$7210.40		\$9719.20	\$75.11	\$101.24
<b>Crew B-25C</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$44.82	\$67.99
3 Laborers	39.85	956.40	60.70	1456.80		
2 Equip. Oper. (medium)	53.75	860.00	81.05	1296.80		
1 Asphalt Paver, 130 H.P.		2123.00		2335.30		
1 Tandem Roller, 10 Ton		231.40		254.54	49.05	53.95
48 L.H., Daily Totals		\$4505.60		\$5853.44	\$93.87	\$121.95
<b>Crew B-25D</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$45.02	\$68.28
3 Laborers	39.85	956.40	60.70	1456.80		
2.125 Equip. Oper. (medium)	53.75	913.75	81.05	1377.85		
.125 Truck Driver (heavy)	46.00	46.00	69.30	69.30		
.125 Truck Tractor, 6x4, 380 H.P.		59.52		65.48		
.125 Dist. Tanker, 3000 Gallon		40.85		44.94		
1 Asphalt Paver, 130 H.P.		2123.00		2335.30		
1 Tandem Roller, 10 Ton		231.40		254.54	49.10	54.01
50 L.H., Daily Totals		\$4705.73		\$6114.20	\$94.11	\$122.28

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-25E</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$45.21	\$68.54
3 Laborers	39.85	956.40	60.70	1456.80		
2.250 Equip. Oper. (medium)	53.75	967.50	81.05	1458.90		
.25 Truck Driver (heavy)	46.00	92.00	69.30	138.60		
.25 Truck Tractor, 6x4, 380 H.P.		119.05		130.96		
.25 Dist. Tanker, 3000 Gallon		81.70		89.87		
1 Asphalt Paver, 130 H.P.		2123.00		2335.30		
1 Tandem Roller, 10 Ton		231.40		254.54	49.14	54.05
52 L.H., Daily Totals		\$4905.85		\$6374.97	\$94.34	\$122.60
<b>Crew B-26</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$44.60	\$67.63
6 Laborers	39.85	1912.80	60.70	2913.60		
2 Equip. Oper. (medium)	53.75	860.00	81.05	1296.80		
1 Rodman (reinf.)	54.65	437.20	83.45	667.60		
1 Cement Finisher	47.55	380.40	70.45	563.60		
1 Grader, 30,000 Lbs.		643.80		708.18		
1 Paving Mach. & Equip.		2361.00		2597.10	34.15	37.56
88 L.H., Daily Totals		\$6930.00		\$9256.88	\$78.75	\$105.19
<b>Crew B-26A</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$44.60	\$67.63
6 Laborers	39.85	1912.80	60.70	2913.60		
2 Equip. Oper. (medium)	53.75	860.00	81.05	1296.80		
1 Rodman (reinf.)	54.65	437.20	83.45	667.60		
1 Cement Finisher	47.55	380.40	70.45	563.60		
1 Grader, 30,000 Lbs.		643.80		708.18		
1 Paving Mach. & Equip.		2361.00		2597.10		
1 Concrete Saw		102.40		112.64	35.31	38.84
88 L.H., Daily Totals		\$7032.40		\$9369.52	\$79.91	\$106.47
<b>Crew B-26B</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$45.37	\$68.75
6 Laborers	39.85	1912.80	60.70	2913.60		
3 Equip. Oper. (medium)	53.75	1290.00	81.05	1945.20		
1 Rodman (reinf.)	54.65	437.20	83.45	667.60		
1 Cement Finisher	47.55	380.40	70.45	563.60		
1 Grader, 30,000 Lbs.		643.80		708.18		
1 Paving Mach. & Equip.		2361.00		2597.10		
1 Concrete Pump, 110' Boom		1116.00		1227.60	42.92	47.22
96 L.H., Daily Totals		\$8476.00		\$11132.88	\$88.29	\$115.97
<b>Crew B-26C</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$43.69	\$66.29
6 Laborers	39.85	1912.80	60.70	2913.60		
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
1 Rodman (reinf.)	54.65	437.20	83.45	667.60		
1 Cement Finisher	47.55	380.40	70.45	563.60		
1 Paving Mach. & Equip.		2361.00		2597.10		
1 Concrete Saw		102.40		112.64	30.79	33.87
80 L.H., Daily Totals		\$5958.60		\$8012.94	\$74.48	\$100.16
<b>Crew B-27</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$40.35	\$61.46
3 Laborers	39.85	956.40	60.70	1456.80		
1 Berm Machine		317.40		349.14	9.92	10.91
32 L.H., Daily Totals		\$1608.60		\$2315.94	\$50.27	\$72.37

# Crews - Standard

Crew No.	Bare Costs		Incl.		Cost	
			Subs O&P	Per Labor-Hour	Bare Costs	Incl. O&P
<b>Crew B-28</b>	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
2 Carpenters	\$50.70	\$811.20	\$77.20	\$1235.20	\$47.08	\$71.70
1 Laborer	39.85	318.80	60.70	485.60		
24 L.H., Daily Totals		\$1130.00		\$1720.80	\$47.08	\$71.70
<b>Crew B-29</b>	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$43.71	\$66.35
4 Laborers	39.85	1275.20	60.70	1942.40		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Equip. Oper. (oilier)	48.60	388.80	73.30	586.40		
1 Gradall, 5/8 C.Y.		869.60		956.56	15.53	17.08
56 L.H., Daily Totals		\$3317.20		\$4672.16	\$59.24	\$83.43
<b>Crew B-30</b>	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$48.58	\$73.22
2 Truck Drivers (heavy)	46.00	736.00	69.30	1108.80		
1 Hyd. Excavator, 1.5 C.Y.		893.60		982.96		
2 Dump Trucks, 12 C.Y., 400 H.P.		1085.60		1194.16	82.47	90.71
24 L.H., Daily Totals		\$3145.20		\$3934.32	\$131.05	\$163.93
<b>Crew B-31</b>	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$42.42	\$64.61
3 Laborers	39.85	956.40	60.70	1456.80		
1 Carpenter	50.70	405.60	77.20	617.60		
1 Air Compressor, 250 cfm		167.40		184.14		
1 Sheeting Driver		7.00		7.70		
2 -50' Air Hoses, 1.5"		45.40		49.94	5.50	6.04
40 L.H., Daily Totals		\$1916.60		\$2826.18	\$47.91	\$70.65
<b>Crew B-32</b>	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$50.27	\$75.96
3 Equip. Oper. (medium)	53.75	1290.00	81.05	1945.20		
1 Grader, 30,000 Lbs.		643.80		708.18		
1 Tandem Roller, 10 Ton		231.40		254.54		
1 Dozer, 200 H.P.		1273.00		1400.30	67.13	73.84
32 L.H., Daily Totals		\$3757.00		\$4793.82	\$117.41	\$149.81
<b>Crew B-32A</b>	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$49.12	\$74.27
2 Equip. Oper. (medium)	53.75	860.00	81.05	1296.80		
1 Grader, 30,000 Lbs.		643.80		708.18		
1 Roller, Vibratory, 25 Ton		659.80		725.78	54.32	59.75
24 L.H., Daily Totals		\$2482.40		\$3216.36	\$103.43	\$134.01
<b>Crew B-32B</b>	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$49.12	\$74.27
2 Equip. Oper. (medium)	53.75	860.00	81.05	1296.80		
1 Dozer, 200 H.P.		1273.00		1400.30		
1 Roller, Vibratory, 25 Ton		659.80		725.78	80.53	88.59
24 L.H., Daily Totals		\$3111.60		\$3908.48	\$129.65	\$162.85
<b>Crew B-32C</b>	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$47.13	\$71.38
2 Laborers	39.85	637.60	60.70	971.20		
3 Equip. Oper. (medium)	53.75	1290.00	81.05	1945.20		
1 Grader, 30,000 Lbs.		643.80		708.18		
1 Tandem Roller, 10 Ton		231.40		254.54		
1 Dozer, 200 H.P.		1273.00		1400.30	44.75	49.23
48 L.H., Daily Totals		\$4410.60		\$5789.42	\$91.89	\$120.61

Crew No.	Bare Costs		Incl.		Cost	
			Subs O&P	Per Labor-Hour	Bare Costs	Incl. O&P
<b>Crew B-33A</b>	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.78	\$75.24
.5 Laborer	39.85	159.40	60.70	242.80		
.25 Equip. Oper. (medium)	53.75	107.50	81.05	162.10		
1 Scraper, Towed, 7 C.Y.		123.40		135.74		
1.25 Dozers, 300 H.P.		2286.25		2514.88	172.12	189.33
14 L.H., Daily Totals		\$3106.55		\$3703.92	\$221.90	\$264.57
<b>Crew B-33B</b>	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.78	\$75.24
.5 Laborer	39.85	159.40	60.70	242.80		
.25 Equip. Oper. (medium)	53.75	107.50	81.05	162.10		
1 Scraper, Towed, 10 C.Y.		155.80		171.38		
1.25 Dozers, 300 H.P.		2286.25		2514.88	174.43	191.88
14 L.H., Daily Totals		\$3138.95		\$3739.55	\$224.21	\$267.11
<b>Crew B-33C</b>	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.78	\$75.24
.5 Laborer	39.85	159.40	60.70	242.80		
.25 Equip. Oper. (medium)	53.75	107.50	81.05	162.10		
1 Scraper, Towed, 15 C.Y.		175.80		193.38		
1.25 Dozers, 300 H.P.		2286.25		2514.88	175.86	193.45
14 L.H., Daily Totals		\$3158.95		\$3761.55	\$225.64	\$268.68
<b>Crew B-33D</b>	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.78	\$75.24
.5 Laborer	39.85	159.40	60.70	242.80		
.25 Equip. Oper. (medium)	53.75	107.50	81.05	162.10		
1 S.P. Scraper, 14 C.Y.		2490.00		2739.00		
.25 Dozer, 300 H.P.		457.25		502.98	210.52	231.57
14 L.H., Daily Totals		\$3644.15		\$4295.27	\$260.30	\$306.81
<b>Crew B-33E</b>	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.78	\$75.24
.5 Laborer	39.85	159.40	60.70	242.80		
.25 Equip. Oper. (medium)	53.75	107.50	81.05	162.10		
1 S.P. Scraper, 21 C.Y.		2468.00		2714.80		
.25 Dozer, 300 H.P.		457.25		502.98	208.95	229.84
14 L.H., Daily Totals		\$3622.15		\$4271.07	\$258.73	\$305.08
<b>Crew B-33F</b>	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.78	\$75.24
.5 Laborer	39.85	159.40	60.70	242.80		
.25 Equip. Oper. (medium)	53.75	107.50	81.05	162.10		
1 Elev. Scraper, 11 C.Y.		1155.00		1270.50		
.25 Dozer, 300 H.P.		457.25		502.98	115.16	126.68
14 L.H., Daily Totals		\$2309.15		\$2826.78	\$164.94	\$201.91
<b>Crew B-33G</b>	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.78	\$75.24
.5 Laborer	39.85	159.40	60.70	242.80		
.25 Equip. Oper. (medium)	53.75	107.50	81.05	162.10		
1 Elev. Scraper, 22 C.Y.		2284.00		2512.40		
.25 Dozer, 300 H.P.		457.25		502.98	195.80	215.38
14 L.H., Daily Totals		\$3438.15		\$4068.68	\$245.58	\$290.62

# Crews - Standard

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-33H</b>						
.5 Laborer	\$39.85	\$159.40	\$60.70	\$242.80	\$49.78	\$75.24
1 Equipment Operator (med.)	53.75	430.00	81.05	648.40		
.25 Equipment Operator (med.)	53.75	107.50	81.05	162.10		
1 S.P. Scraper, 44 C.Y.		4457.00		4902.70		
.25 Dozer, 410 H.P.		572.75		630.02	359.27	395.19
14 L.H., Daily Totals		\$5726.65		\$6586.02	\$409.05	\$470.43
<b>Crew B-33J</b>						
1 Equipment Operator (med.)	\$53.75	\$430.00	\$81.05	\$648.40	\$53.75	\$81.05
1 S.P. Scraper, 14 C.Y.		2490.00		2739.00	311.25	342.38
8 L.H., Daily Totals		\$2920.00		\$3387.40	\$365.00	\$423.43
<b>Crew B-33K</b>						
1 Equipment Operator (med.)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.78	\$75.24
.25 Equipment Operator (med.)	53.75	107.50	81.05	162.10		
.5 Laborer	39.85	159.40	60.70	242.80		
1 S.P. Scraper, 31 C.Y.		3576.00		3933.60		
.25 Dozer, 410 H.P.		572.75		630.02	296.34	325.97
14 L.H., Daily Totals		\$4845.65		\$5616.93	\$346.12	\$401.21
<b>Crew B-34A</b>						
1 Truck Driver (heavy)	\$46.00	\$368.00	\$69.30	\$554.40	\$46.00	\$69.30
1 Dump Truck, 8 C.Y., 220 H.P.		338.60		372.46	42.33	46.56
8 L.H., Daily Totals		\$706.60		\$926.86	\$88.33	\$115.86
<b>Crew B-34B</b>						
1 Truck Driver (heavy)	\$46.00	\$368.00	\$69.30	\$554.40	\$46.00	\$69.30
1 Dump Truck, 12 C.Y., 400 H.P.		542.80		597.08	67.85	74.64
8 L.H., Daily Totals		\$910.80		\$1151.48	\$113.85	\$143.94
<b>Crew B-34C</b>						
1 Truck Driver (heavy)	\$46.00	\$368.00	\$69.30	\$554.40	\$46.00	\$69.30
1 Truck Tractor, 6x4, 380 H.P.		476.20		523.82		
1 Dump Trailer, 16.5 C.Y.		133.00		146.30	76.15	83.77
8 L.H., Daily Totals		\$977.20		\$1224.52	\$122.15	\$153.07
<b>Crew B-34D</b>						
1 Truck Driver (heavy)	\$46.00	\$368.00	\$69.30	\$554.40	\$46.00	\$69.30
1 Truck Tractor, 6x4, 380 H.P.		476.20		523.82		
1 Dump Trailer, 20 C.Y.		147.60		162.36	77.97	85.77
8 L.H., Daily Totals		\$991.80		\$1240.58	\$123.97	\$155.07
<b>Crew B-34E</b>						
1 Truck Driver (heavy)	\$46.00	\$368.00	\$69.30	\$554.40	\$46.00	\$69.30
1 Dump Truck, Off Hwy., 25 Ton		1343.00		1477.30	167.88	184.66
8 L.H., Daily Totals		\$1711.00		\$2031.70	\$213.88	\$253.96
<b>Crew B-34F</b>						
1 Truck Driver (heavy)	\$46.00	\$368.00	\$69.30	\$554.40	\$46.00	\$69.30
1 Dump Truck, Off Hwy., 35 Ton		1448.00		1592.80	181.00	199.10
8 L.H., Daily Totals		\$1816.00		\$2147.20	\$227.00	\$268.40
<b>Crew B-34G</b>						
1 Truck Driver (heavy)	\$46.00	\$368.00	\$69.30	\$554.40	\$46.00	\$69.30
1 Dump Truck, Off Hwy., 50 Ton		1662.00		1828.20	207.75	228.53
8 L.H., Daily Totals		\$2030.00		\$2382.60	\$253.75	\$297.82

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-34H</b>						
1 Truck Driver (heavy)	\$46.00	\$368.00	\$69.30	\$554.40	\$46.00	\$69.30
1 Dump Truck, Off Hwy., 65 Ton		1844.00		2028.40	230.50	253.55
8 L.H., Daily Totals		\$2212.00		\$2582.80	\$276.50	\$322.85
<b>Crew B-34I</b>						
1 Truck Driver (heavy)	\$46.00	\$368.00	\$69.30	\$554.40	\$46.00	\$69.30
1 Dump Truck, 18 C.Y., 450 H.P.		706.00		776.60	88.25	97.08
8 L.H., Daily Totals		\$1074.00		\$1331.00	\$134.25	\$166.38
<b>Crew B-34J</b>						
1 Truck Driver (heavy)	\$46.00	\$368.00	\$69.30	\$554.40	\$46.00	\$69.30
1 Dump Truck, Off Hwy., 100 Ton		2669.00		2935.90	333.63	366.99
8 L.H., Daily Totals		\$3037.00		\$3490.30	\$379.63	\$436.29
<b>Crew B-34K</b>						
1 Truck Driver (heavy)	\$46.00	\$368.00	\$69.30	\$554.40	\$46.00	\$69.30
1 Truck Tractor, 6x4, 450 H.P.		583.40		641.74		
1 Lowbed Trailer, 75 Ton		249.40		274.34	104.10	114.51
8 L.H., Daily Totals		\$1200.80		\$1470.48	\$150.10	\$183.81
<b>Crew B-34L</b>						
1 Equip. Oper. (light)	\$51.30	\$410.40	\$77.35	\$618.80	\$51.30	\$77.35
1 Flatbed Truck, Gas, 1.5 Ton		188.40		207.24	23.55	25.91
8 L.H., Daily Totals		\$598.80		\$826.04	\$74.85	\$103.26
<b>Crew B-34M</b>						
1 Equip. Oper. (light)	\$51.30	\$410.40	\$77.35	\$618.80	\$51.30	\$77.35
1 Flatbed Truck, Gas, 3 Ton		238.00		261.80	29.75	32.73
8 L.H., Daily Totals		\$648.40		\$880.60	\$81.05	\$110.08
<b>Crew B-34N</b>						
1 Truck Driver (heavy)	\$46.00	\$368.00	\$69.30	\$554.40	\$49.88	\$75.17
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
1 Truck Tractor, 6x4, 380 H.P.		476.20		523.82		
1 Flatbed Trailer, 40 Ton		180.00		198.00	41.01	45.11
16 L.H., Daily Totals		\$1454.20		\$1924.62	\$90.89	\$120.29
<b>Crew B-34P</b>						
1 Pipe Fitter	\$63.00	\$504.00	\$94.90	\$759.20	\$53.75	\$80.98
1 Truck Driver (light)	44.50	356.00	67.00	536.00		
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
1 Flatbed Truck, Gas, 3 Ton		238.00		261.80		
1 Backhoe Loader, 48 H.P.		312.40		343.64	22.93	25.23
24 L.H., Daily Totals		\$1840.40		\$2549.04	\$76.68	\$106.21
<b>Crew B-34Q</b>						
1 Pipe Fitter	\$63.00	\$504.00	\$94.90	\$759.20	\$54.53	\$82.17
1 Truck Driver (light)	44.50	356.00	67.00	536.00		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Flatbed Trailer, 25 Ton		133.00		146.30		
1 Dump Truck, 8 C.Y., 220 H.P.		338.60		372.46		
1 Hyd. Crane, 25 Ton		590.60		649.66	44.26	48.68
24 L.H., Daily Totals		\$2371.00		\$3140.42	\$98.79	\$130.85

# Crews - Standard

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-34R</b>						
1 Pipe Fitter	\$63.00	\$504.00	\$94.90	\$759.20	\$54.53	\$82.17
1 Truck Driver (light)	44.50	356.00	67.00	536.00		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Flatbed Trailer, 25 Ton		133.00		146.30		
1 Dump Truck, 8 C.Y., 220 H.P.		338.60		372.46		
1 Hyd. Crane, 25 Ton		590.60		649.66		
1 Hyd. Excavator, 1 C.Y.		742.20		816.42	75.18	82.70
24 L.H., Daily Totals		\$3113.20		\$3956.84	\$129.72	\$164.87
<b>Crew B-34S</b>						
2 Pipe Fitters	\$63.00	\$1008.00	\$94.90	\$1518.40	\$57.02	\$85.92
1 Truck Driver (heavy)	46.00	368.00	69.30	554.40		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Flatbed Trailer, 40 Ton		180.00		198.00		
1 Truck Tractor, 6x4, 380 H.P.		476.20		523.82		
1 Hyd. Crane, 80 Ton		1518.00		1669.80		
1 Hyd. Excavator, 2 C.Y.		1052.00		1157.20	100.82	110.90
32 L.H., Daily Totals		\$5051.00		\$6298.42	\$157.84	\$196.83
<b>Crew B-34T</b>						
2 Pipe Fitters	\$63.00	\$1008.00	\$94.90	\$1518.40	\$57.02	\$85.92
1 Truck Driver (heavy)	46.00	368.00	69.30	554.40		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Flatbed Trailer, 40 Ton		180.00		198.00		
1 Truck Tractor, 6x4, 380 H.P.		476.20		523.82		
1 Hyd. Crane, 80 Ton		1518.00		1669.80	67.94	74.74
32 L.H., Daily Totals		\$3999.00		\$5141.22	\$124.97	\$160.66
<b>Crew B-34U</b>						
1 Truck Driver (heavy)	\$46.00	\$368.00	\$69.30	\$554.40	\$48.65	\$73.33
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Truck Tractor, 220 H.P.		290.00		319.00		
1 Flatbed Trailer, 25 Ton		133.00		146.30	26.44	29.08
16 L.H., Daily Totals		\$1201.40		\$1638.50	\$75.09	\$102.41
<b>Crew B-34V</b>						
1 Truck Driver (heavy)	\$46.00	\$368.00	\$69.30	\$554.40	\$51.13	\$77.08
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Truck Tractor, 6x4, 450 H.P.		583.40		641.74		
1 Equipment Trailer, 50 Ton		198.20		218.02		
1 Pickup Truck, 4x4, 3/4 Ton		126.60		139.26	37.84	41.63
24 L.H., Daily Totals		\$2135.40		\$2849.02	\$88.97	\$118.71
<b>Crew B-34W</b>						
5 Truck Drivers (heavy)	\$46.00	\$1840.00	\$69.30	\$2772.00	\$48.71	\$73.48
2 Equip. Oper. (crane)	56.10	897.60	84.60	1353.60		
1 Equip. Oper. (mechanic)	56.30	450.40	84.90	679.20		
1 Laborer	39.85	318.80	60.70	485.60		
4 Truck Tractors, 6x4, 380 H.P.		1904.80		2095.28		
2 Equipment Trailers, 50 Ton		396.40		436.04		
2 Flatbed Trailers, 40 Ton		360.00		396.00		
1 Pickup Truck, 4x4, 3/4 Ton		126.60		139.26		
1 S.P. Crane, 4x4, 20 Ton		571.20		628.32	46.65	51.32
72 L.H., Daily Totals		\$6865.80		\$8985.30	\$95.36	\$124.80

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-35</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$50.15	\$76.02
1 Skilled Worker	52.35	418.80	80.15	641.20		
1 Welder (plumber)	62.15	497.20	93.60	748.80		
1 Laborer	39.85	318.80	60.70	485.60		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
1 Welder, Electric, 300 amp		59.20		65.12		
1 Hyd. Excavator, .75 C.Y.		669.60		736.56	15.18	16.70
48 L.H., Daily Totals		\$3136.00		\$4450.48	\$65.33	\$92.72
<b>Crew B-35A</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$48.68	\$73.83
2 Laborers	39.85	637.60	60.70	971.20		
1 Skilled Worker	52.35	418.80	80.15	641.20		
1 Welder (plumber)	62.15	497.20	93.60	748.80		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
1 Welder, Gas Engine, 300 amp		98.40		108.24		
1 Crawler Crane, 75 Ton		1708.00		1878.80	32.26	35.48
56 L.H., Daily Totals		\$4532.40		\$6121.44	\$80.94	\$109.31
<b>Crew B-36</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$45.81	\$69.45
2 Laborers	39.85	637.60	60.70	971.20		
2 Equip. Oper. (medium)	53.75	860.00	81.05	1296.80		
1 Dozer, 200 H.P.		1273.00		1400.30		
1 Aggregate Spreader		36.80		40.48		
1 Tandem Roller, 10 Ton		231.40		254.54	38.53	42.38
40 L.H., Daily Totals		\$3373.60		\$4473.32	\$84.34	\$111.83
<b>Crew B-36A</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$48.08	\$72.76
2 Laborers	39.85	637.60	60.70	971.20		
4 Equip. Oper. (medium)	53.75	1720.00	81.05	2593.60		
1 Dozer, 200 H.P.		1273.00		1400.30		
1 Aggregate Spreader		36.80		40.48		
1 Tandem Roller, 10 Ton		231.40		254.54		
1 Roller, Pneum. Whl., 12 Ton		338.20		372.02	33.56	36.92
56 L.H., Daily Totals		\$4571.80		\$6142.14	\$81.64	\$109.68
<b>Crew B-36B</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$47.82	\$72.33
2 Laborers	39.85	637.60	60.70	971.20		
4 Equip. Oper. (medium)	53.75	1720.00	81.05	2593.60		
1 Truck Driver (heavy)	46.00	368.00	69.30	554.40		
1 Grader, 30,000 Lbs.		643.80		708.18		
1 F.E. Loader, Cri, 1.5 C.Y.		645.40		709.94		
1 Dozer, 300 H.P.		1829.00		2011.90		
1 Roller, Vibratory, 25 Ton		659.80		725.78		
1 Truck Tractor, 6x4, 450 H.P.		583.40		641.74		
1 Water Tank Trailer, 5000 Gal.		147.60		162.36	70.45	77.50
64 L.H., Daily Totals		\$7569.40		\$9589.10	\$118.27	\$149.83

# Crews - Standard

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-36C</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$49.82	\$75.24
3 Equip. Oper. (medium)	53.75	1290.00	81.05	1945.20		
1 Truck Driver (heavy)	46.00	368.00	69.30	554.40		
1 Grader, 30,000 Lbs.		643.80		708.18		
1 Dozer, 300 H.P.		1829.00		2011.90		
1 Roller, Vibratory, 25 Ton		659.80		725.78		
1 Truck Tractor, 6x4, 450 H.P.		583.40		641.74		
1 Water Tank Trailer, 5000 Gal.		147.60		162.36	96.59	106.25
40 L.H., Daily Totals		\$5856.40		\$7259.56	\$146.41	\$181.49
<b>Crew B-36D</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$50.77	\$76.72
3 Equip. Oper. (medium)	53.75	1290.00	81.05	1945.20		
1 Grader, 30,000 Lbs.		643.80		708.18		
1 Dozer, 300 H.P.		1829.00		2011.90		
1 Roller, Vibratory, 25 Ton		659.80		725.78	97.89	107.68
32 L.H., Daily Totals		\$4757.40		\$5901.06	\$148.67	\$184.41
<b>Crew B-37</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$42.09	\$63.98
4 Laborers	39.85	1275.20	60.70	1942.40		
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Tandem Roller, 5 Ton		151.20		166.32	3.15	3.46
48 L.H., Daily Totals		\$2171.60		\$3237.52	\$45.24	\$67.45
<b>Crew B-37A</b>						
2 Laborers	\$39.85	\$637.60	\$60.70	\$971.20	\$41.40	\$62.80
1 Truck Driver (light)	44.50	356.00	67.00	536.00		
1 Flatbed Truck, Gas, 1.5 Ton		188.40		207.24		
1 Tar Kettle, T.M.		129.20		142.12	13.23	14.56
24 L.H., Daily Totals		\$1311.20		\$1856.56	\$54.63	\$77.36
<b>Crew B-37B</b>						
3 Laborers	\$39.85	\$956.40	\$60.70	\$1456.80	\$41.01	\$62.27
1 Truck Driver (light)	44.50	356.00	67.00	536.00		
1 Flatbed Truck, Gas, 1.5 Ton		188.40		207.24		
1 Tar Kettle, T.M.		129.20		142.12	9.93	10.92
32 L.H., Daily Totals		\$1630.00		\$2342.16	\$50.94	\$73.19
<b>Crew B-37C</b>						
2 Laborers	\$39.85	\$637.60	\$60.70	\$971.20	\$42.17	\$63.85
2 Truck Drivers (light)	44.50	712.00	67.00	1072.00		
2 Flatbed Trucks, Gas, 1.5 Ton		376.80		414.48		
1 Tar Kettle, T.M.		129.20		142.12	15.81	17.39
32 L.H., Daily Totals		\$1855.60		\$2599.80	\$57.99	\$81.24
<b>Crew B-37D</b>						
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$42.17	\$63.85
1 Truck Driver (light)	44.50	356.00	67.00	536.00		
1 Pickup Truck, 3/4 Ton		115.20		126.72	7.20	7.92
16 L.H., Daily Totals		\$790.00		\$1148.32	\$49.38	\$71.77

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-37E</b>						
3 Laborers	\$39.85	\$956.40	\$60.70	\$1456.80	\$44.80	\$67.79
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
2 Truck Drivers (light)	44.50	712.00	67.00	1072.00		
4 Barrels w/Flasher		15.60		17.16		
1 Concrete Saw		102.40		112.64		
1 Rotary Hammer Drill		25.15		27.66		
1 Hammer Drill Bit		3.25		3.58		
1 Loader, Skid Steer, 30 H.P.		174.00		191.40		
1 Conc. Hammer Attach.		113.60		124.96		
1 Vibrating Plate, Gas, 18"		31.80		34.98		
2 Flatbed Trucks, Gas, 1.5 Ton		376.80		414.48	15.05	16.55
56 L.H., Daily Totals		\$3351.40		\$4722.86	\$59.85	\$84.34
<b>Crew B-37F</b>						
3 Laborers	\$39.85	\$956.40	\$60.70	\$1456.80	\$41.01	\$62.27
1 Truck Driver (light)	44.50	356.00	67.00	536.00		
4 Barrels w/Flasher		15.60		17.16		
1 Concrete Mixer, 10 C.F.		161.00		177.10		
1 Air Compressor, 60 cfm		105.40		115.94		
1 -50' Air Hose, 3/4"		7.35		8.09		
1 Spade (Chipper)		8.40		9.24		
1 Flatbed Truck, Gas, 1.5 Ton		188.40		207.24	15.19	16.71
32 L.H., Daily Totals		\$1798.55		\$2527.57	\$56.20	\$78.99
<b>Crew B-37G</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$42.09	\$63.98
4 Laborers	39.85	1275.20	60.70	1942.40		
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Berm Machine		317.40		349.14		
1 Tandem Roller, 5 Ton		151.20		166.32	9.76	10.74
48 L.H., Daily Totals		\$2489.00		\$3586.66	\$51.85	\$74.72
<b>Crew B-37H</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$42.09	\$63.98
4 Laborers	39.85	1275.20	60.70	1942.40		
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Tandem Roller, 5 Ton		151.20		166.32		
1 Flatbed Truck, Gas, 1.5 Ton		188.40		207.24		
1 Tar Kettle, T.M.		129.20		142.12	9.77	10.74
48 L.H., Daily Totals		\$2489.20		\$3586.88	\$51.86	\$74.73
<b>Crew B-37I</b>						
3 Laborers	\$39.85	\$956.40	\$60.70	\$1456.80	\$44.80	\$67.79
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
2 Truck Drivers (light)	44.50	712.00	67.00	1072.00		
4 Barrels w/Flasher		15.60		17.16		
1 Concrete Saw		102.40		112.64		
1 Rotary Hammer Drill		25.15		27.66		
1 Hammer Drill Bit		3.25		3.58		
1 Air Compressor, 60 cfm		105.40		115.94		
1 -50' Air Hose, 3/4"		7.35		8.09		
1 Spade (Chipper)		8.40		9.24		
1 Loader, Skid Steer, 30 H.P.		174.00		191.40		
1 Conc. Hammer Attach.		113.60		124.96		
1 Concrete Mixer, 10 C.F.		161.00		177.10		
1 Vibrating Plate, Gas, 18"		31.80		34.98		
2 Flatbed Trucks, Gas, 1.5 Ton		376.80		414.48	20.08	22.09
56 L.H., Daily Totals		\$3633.55		\$5033.23	\$64.88	\$89.88

# Crews - Standard

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-37J</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$42.09	\$63.98
4 Laborers	39.85	1275.20	60.70	1942.40		
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Air Compressor, 60 cfm		105.40		115.94		
1 -50' Air Hose, 3/4"		7.35		8.09		
2 Concrete Mixers, 10 C.F.		322.00		354.20		
2 Flatbed Trucks, Gas, 1.5 Ton		376.80		414.48		
1 Shot Blaster, 20"		214.80		236.28	21.38	23.52
48 L.H., Daily Totals		\$3046.75		\$4200.19	\$63.47	\$87.50
<b>Crew B-37K</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$42.09	\$63.98
4 Laborers	39.85	1275.20	60.70	1942.40		
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Air Compressor, 60 cfm		105.40		115.94		
1 -50' Air Hose, 3/4"		7.35		8.09		
2 Flatbed Trucks, Gas, 1.5 Ton		376.80		414.48		
1 Shot Blaster, 20"		214.80		236.28	14.67	16.14
48 L.H., Daily Totals		\$2724.75		\$3845.99	\$56.77	\$80.12
<b>Crew B-38</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$45.32	\$68.71
2 Laborers	39.85	637.60	60.70	971.20		
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
1 Backhoe Loader, 48 H.P.		312.40		343.64		
1 Hyd. Hammer (1200 lb.)		177.40		195.14		
1 F.E. Loader, W.M., 4 C.Y.		574.60		632.06		
1 Pvmnt. Rem. Bucket		61.00		67.10	28.14	30.95
40 L.H., Daily Totals		\$2938.20		\$3986.34	\$73.45	\$99.66
<b>Crew B-39</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$42.09	\$63.98
4 Laborers	39.85	1275.20	60.70	1942.40		
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Air Compressor, 250 cfm		167.40		184.14		
2 Breakers, Pavement, 60 lb.		21.20		23.32		
2 -50' Air Hoses, 1.5"		45.40		49.94	4.88	5.36
48 L.H., Daily Totals		\$2254.40		\$3328.60	\$46.97	\$69.35
<b>Crew B-40</b>						
1 Pile Driver Foreman (outside)	\$53.30	\$426.40	\$84.05	\$672.40	\$52.41	\$81.27
4 Pile Drivers	51.30	1641.60	80.90	2588.80		
2 Equip. Oper. (crane)	56.10	897.60	84.60	1353.60		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
1 Crawler Crane, 40 Ton		1370.00		1507.00		
1 Vibratory Hammer & Gen.		2191.00		2410.10	55.64	61.20
64 L.H., Daily Totals		\$6915.40		\$9118.30	\$108.05	\$142.47
<b>Crew B-40B</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$44.35	\$67.29
3 Laborers	39.85	956.40	60.70	1456.80		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
1 Lattice Boom Crane, 40 Ton		1321.00		1453.10	27.52	30.27
48 L.H., Daily Totals		\$3449.80		\$4683.10	\$71.87	\$97.56

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-41</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$41.35	\$62.91
4 Laborers	39.85	1275.20	60.70	1942.40		
.25 Equip. Oper. (crane)	56.10	112.20	84.60	169.20		
.25 Equip. Oper. (oiler)	48.60	97.20	73.30	146.60		
.25 Crawler Crane, 40 Ton		342.50		376.75	7.78	8.56
44 L.H., Daily Totals		\$2161.90		\$3144.95	\$49.13	\$71.48
<b>Crew B-42</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$45.08	\$69.22
4 Laborers	39.85	1275.20	60.70	1942.40		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
1 Welder	54.65	437.20	89.35	714.80		
1 Hyd. Crane, 25 Ton		590.60		649.66		
1 Welder, Gas Engine, 300 amp		98.40		108.24		
1 Horz. Boring Csg. Mch.		448.80		493.68	17.78	19.56
64 L.H., Daily Totals		\$4022.60		\$5681.98	\$62.85	\$88.78
<b>Crew B-43</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$44.35	\$67.29
3 Laborers	39.85	956.40	60.70	1456.80		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
1 Drill Rig, Truck-Mounted		2444.00		2688.40	50.92	56.01
48 L.H., Daily Totals		\$4572.80		\$5918.40	\$95.27	\$123.30
<b>Crew B-44</b>						
1 Pile Driver Foreman (outside)	\$53.30	\$426.40	\$84.05	\$672.40	\$51.32	\$79.69
4 Pile Drivers	51.30	1641.60	80.90	2588.80		
2 Equip. Oper. (crane)	56.10	897.60	84.60	1353.60		
1 Laborer	39.85	318.80	60.70	485.60		
1 Crawler Crane, 40 Ton		1370.00		1507.00		
1 Lead, 60' High		79.40		87.34		
1 Hammer, Diesel, 15K ft.-lbs.		623.20		685.52	32.38	35.62
64 L.H., Daily Totals		\$5357.00		\$7380.26	\$83.70	\$115.32
<b>Crew B-45</b>						
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$49.88	\$75.17
1 Truck Driver (heavy)	46.00	368.00	69.30	554.40		
1 Dist. Tanker, 3000 Gallon		326.80		359.48		
1 Truck Tractor, 6x4, 380 H.P.		476.20		523.82	50.19	55.21
16 L.H., Daily Totals		\$1601.00		\$2086.10	\$100.06	\$130.38
<b>Crew B-46</b>						
1 Pile Driver Foreman (outside)	\$53.30	\$426.40	\$84.05	\$672.40	\$45.91	\$71.33
2 Pile Drivers	51.30	820.80	80.90	1294.40		
3 Laborers	39.85	956.40	60.70	1456.80		
1 Chain Saw, Gas, 36" Long		46.40		51.04	.97	1.06
48 L.H., Daily Totals		\$2250.00		\$3474.64	\$46.88	\$72.39
<b>Crew B-47</b>						
1 Blast Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$44.33	\$67.27
1 Driller	39.85	318.80	60.70	485.60		
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Air Track Drill, 4"		993.40		1092.74		
1 Air Compressor, 600 cfm		417.20		458.92		
2 -50' Air Hoses, 3"		86.40		95.04	62.38	68.61
24 L.H., Daily Totals		\$2561.00		\$3261.10	\$106.71	\$135.88

# Crews - Standard

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-47A</b>						
1 Drilling Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$48.85	\$73.88
1 Equip. Oper. (heavy)	56.10	448.80	84.60	676.80		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
1 Air Track Drill, 5"		1173.00		1290.30	48.88	53.76
24 L.H., Daily Totals		\$2345.40		\$3063.50	\$97.72	\$127.65
<b>Crew B-47C</b>						
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$45.58	\$69.03
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Air Compressor, 750 cfm		423.80		466.18		
2 -50' Air Hoses, 3"		86.40		95.04		
1 Air Track Drill, 4"		993.40		1092.74	93.97	103.37
16 L.H., Daily Totals		\$2232.80		\$2758.36	\$139.55	\$172.40
<b>Crew B-47E</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$40.35	\$61.46
3 Laborers	39.85	956.40	60.70	1456.80		
1 Flatbed Truck, Gas, 3 Ton		238.00		261.80	7.44	8.18
32 L.H., Daily Totals		\$1529.20		\$2228.60	\$47.79	\$69.64
<b>Crew B-47G</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$43.21	\$65.63
2 Laborers	39.85	637.60	60.70	971.20		
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Air Track Drill, 4"		993.40		1092.74		
1 Air Compressor, 600 cfm		417.20		458.92		
2 -50' Air Hoses, 3"		86.40		95.04		
1 Gunite Pump Rig		321.00		353.10	56.81	62.49
32 L.H., Daily Totals		\$3200.80		\$4099.80	\$100.03	\$128.12
<b>Crew B-47H</b>						
1 Skilled Worker Foreman (out)	\$54.35	\$434.80	\$83.20	\$665.60	\$52.85	\$80.91
3 Skilled Workers	52.35	1256.40	80.15	1923.60		
1 Flatbed Truck, Gas, 3 Ton		238.00		261.80	7.44	8.18
32 L.H., Daily Totals		\$1929.20		\$2851.00	\$60.29	\$89.09
<b>Crew B-48</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$45.34	\$68.73
3 Laborers	39.85	956.40	60.70	1456.80		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Centr. Water Pump, 6"		296.40		326.04		
1 -20' Suction Hose, 6"		11.50		12.65		
1 -50' Discharge Hose, 6"		6.10		6.71		
1 Drill Rig, Truck-Mounted		2444.00		2688.40	49.25	54.17
56 L.H., Daily Totals		\$5297.20		\$6882.60	\$94.59	\$122.90
<b>Crew B-49</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$47.70	\$72.80
3 Laborers	39.85	956.40	60.70	1456.80		
2 Equip. Oper. (crane)	56.10	897.60	84.60	1353.60		
2 Equip. Oper. (oilers)	48.60	777.60	73.30	1172.80		
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
2 Pile Drivers	51.30	820.80	80.90	1294.40		
1 Hyd. Crane, 25 Ton		590.60		649.66		
1 Centr. Water Pump, 6"		296.40		326.04		
1 -20' Suction Hose, 6"		11.50		12.65		
1 -50' Discharge Hose, 6"		6.10		6.71		
1 Drill Rig, Truck-Mounted		2444.00		2688.40	38.05	41.86
88 L.H., Daily Totals		\$7546.20		\$10089.86	\$85.75	\$114.66

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-50</b>						
2 Pile Driver Foremen (outside)	\$53.30	\$852.80	\$84.05	\$1344.80	\$49.63	\$77.01
6 Pile Drivers	51.30	2462.40	80.90	3883.20		
2 Equip. Oper. (crane)	56.10	897.60	84.60	1353.60		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
3 Laborers	39.85	956.40	60.70	1456.80		
1 Crawler Crane, 40 Ton		1370.00		1507.00		
1 Lead, 60' High		79.40		87.34		
1 Hammer, Diesel, 15K ft.-lbs.		623.20		685.52		
1 Air Compressor, 600 cfm		417.20		458.92		
2 -50' Air Hoses, 3"		86.40		95.04		
1 Chain Saw, Gas, 36" Long		46.40		51.04	23.42	25.76
112 L.H., Daily Totals		\$8180.60		\$11509.66	\$73.04	\$102.76
<b>Crew B-51</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$40.96	\$62.26
4 Laborers	39.85	1275.20	60.70	1942.40		
1 Truck Driver (light)	44.50	356.00	67.00	536.00		
1 Flatbed Truck, Gas, 1.5 Ton		188.40		207.24	3.92	4.32
48 L.H., Daily Totals		\$2154.40		\$3195.64	\$44.88	\$66.58
<b>Crew B-52</b>						
1 Carpenter Foreman (outside)	\$52.70	\$421.60	\$80.25	\$642.00	\$46.39	\$70.32
1 Carpenter	50.70	405.60	77.20	617.60		
3 Laborers	39.85	956.40	60.70	1456.80		
1 Cement Finisher	47.55	380.40	70.45	563.60		
.5 Rodman (reinf.)	54.65	218.60	83.45	333.80		
.5 Equip. Oper. (medium)	53.75	215.00	81.05	324.20		
.5 Crawler Loader, 3 C.Y.		602.00		662.20	10.75	11.82
56 L.H., Daily Totals		\$3199.60		\$4600.20	\$57.14	\$82.15
<b>Crew B-53</b>						
1 Equip. Oper. (light)	\$51.30	\$410.40	\$77.35	\$618.80	\$51.30	\$77.35
1 Trencher, Chain, 12 H.P.		61.80		67.98	7.72	8.50
8 L.H., Daily Totals		\$472.20		\$686.78	\$59.02	\$85.85
<b>Crew B-54</b>						
1 Equip. Oper. (light)	\$51.30	\$410.40	\$77.35	\$618.80	\$51.30	\$77.35
1 Trencher, Chain, 40 H.P.		336.40		370.04	42.05	46.26
8 L.H., Daily Totals		\$746.80		\$988.84	\$93.35	\$123.61
<b>Crew B-54A</b>						
.17 Labor Foreman (outside)	\$41.85	\$56.92	\$63.75	\$86.70	\$52.02	\$78.54
1 Equipment Operator (med.)	53.75	430.00	81.05	648.40		
1 Wheel Trencher, 67 H.P.		1095.00		1204.50	116.99	128.69
9.36 L.H., Daily Totals		\$1581.92		\$1939.60	\$169.01	\$207.22
<b>Crew B-54B</b>						
.25 Labor Foreman (outside)	\$41.85	\$83.70	\$63.75	\$127.50	\$51.37	\$77.59
1 Equipment Operator (med.)	53.75	430.00	81.05	648.40		
1 Wheel Trencher, 150 H.P.		1957.00		2152.70	195.70	215.27
10 L.H., Daily Totals		\$2470.70		\$2928.60	\$247.07	\$292.86
<b>Crew B-54C</b>						
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$46.80	\$70.88
1 Equipment Operator (med.)	53.75	430.00	81.05	648.40		
1 Wheel Trencher, 67 H.P.		1095.00		1204.50	68.44	75.28
16 L.H., Daily Totals		\$1843.80		\$2338.50	\$115.24	\$146.16

# Crews - Standard

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-54D</b>						
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$46.80	\$70.88
1 Equipment Operator (med.)	53.75	430.00	81.05	648.40		
1 Rock Trencher, 6" Width		904.20		994.62	56.51	62.16
16 L.H., Daily Totals		\$1653.00		\$2128.62	\$103.31	\$133.04
<b>Crew B-54E</b>						
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$46.80	\$70.88
1 Equipment Operator (med.)	53.75	430.00	81.05	648.40		
1 Rock Trencher, 18" Width		2681.00		2949.10	167.56	184.32
16 L.H., Daily Totals		\$3429.80		\$4083.10	\$214.36	\$255.19
<b>Crew B-55</b>						
2 Laborers	\$39.85	\$637.60	\$60.70	\$971.20	\$41.40	\$62.80
1 Truck Driver (light)	44.50	356.00	67.00	536.00		
1 Truck-Mounted Earth Auger		758.80		834.68		
1 Flatbed Truck, Gas, 3 Ton		238.00		261.80	41.53	45.69
24 L.H., Daily Totals		\$1990.40		\$2603.68	\$82.93	\$108.49
<b>Crew B-56</b>						
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$45.58	\$69.03
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Air Track Drill, 4"		993.40		1092.74		
1 Air Compressor, 600 cfm		417.20		458.92		
1 -50' Air Hose, 3"		43.20		47.52	90.86	99.95
16 L.H., Daily Totals		\$2183.00		\$2703.58	\$136.44	\$168.97
<b>Crew B-57</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$46.26	\$70.07
2 Laborers	39.85	637.60	60.70	971.20		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Equip. Oper. (oilier)	48.60	388.80	73.30	586.40		
1 Crawler Crane, 25 Ton		1348.00		1482.80		
1 Clamshell Bucket, 1 C.Y.		50.60		55.66		
1 Centr. Water Pump, 6"		296.40		326.04		
1 -20' Suction Hose, 6"		11.50		12.65		
20 -50' Discharge Hoses, 6"		122.00		134.20	38.09	41.90
48 L.H., Daily Totals		\$4048.90		\$5374.55	\$84.35	\$111.97
<b>Crew B-58</b>						
2 Laborers	\$39.85	\$637.60	\$60.70	\$971.20	\$43.67	\$66.25
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Backhoe Loader, 48 H.P.		312.40		343.64		
1 Small Helicopter, w/ Pilot		2857.00		3142.70	132.06	145.26
24 L.H., Daily Totals		\$4217.40		\$5076.34	\$175.72	\$211.51
<b>Crew B-59</b>						
1 Truck Driver (heavy)	\$46.00	\$368.00	\$69.30	\$554.40	\$46.00	\$69.30
1 Truck Tractor, 220 H.P.		290.00		319.00		
1 Water Tank Trailer, 5000 Gal.		147.60		162.36	54.70	60.17
8 L.H., Daily Totals		\$805.60		\$1035.76	\$100.70	\$129.47
<b>Crew B-59A</b>						
2 Laborers	\$39.85	\$637.60	\$60.70	\$971.20	\$41.90	\$63.57
1 Truck Driver (heavy)	46.00	368.00	69.30	554.40		
1 Water Tank Trailer, 5000 Gal.		147.60		162.36		
1 Truck Tractor, 220 H.P.		290.00		319.00	18.23	20.06
24 L.H., Daily Totals		\$1443.20		\$2006.96	\$60.13	\$83.62

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-60</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$46.98	\$71.11
2 Laborers	39.85	637.60	60.70	971.20		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
2 Equip. Oper. (light)	51.30	820.80	77.35	1237.60		
1 Equip. Oper. (oilier)	48.60	388.80	73.30	586.40		
1 Crawler Crane, 40 Ton		1370.00		1507.00		
1 Lead, 60' High		79.40		87.34		
1 Hammer, Diesel, 15K ft.-lbs.		623.20		685.52		
1 Backhoe Loader, 48 H.P.		312.40		343.64	42.59	46.85
56 L.H., Daily Totals		\$5015.80		\$6605.50	\$89.57	\$117.96
<b>Crew B-61</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$42.54	\$64.64
3 Laborers	39.85	956.40	60.70	1456.80		
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Cement Mixer, 2 C.Y.		204.20		224.62		
1 Air Compressor, 160 cfm		117.20		128.92	8.04	8.84
40 L.H., Daily Totals		\$2023.00		\$2939.14	\$50.58	\$73.48
<b>Crew B-62</b>						
2 Laborers	\$39.85	\$637.60	\$60.70	\$971.20	\$43.67	\$66.25
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Loader, Skid Steer, 30 H.P.		174.00		191.40	7.25	7.97
24 L.H., Daily Totals		\$1222.00		\$1781.40	\$50.92	\$74.22
<b>Crew B-62A</b>						
2 Laborers	\$39.85	\$637.60	\$60.70	\$971.20	\$43.67	\$66.25
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Loader, Skid Steer, 30 H.P.		174.00		191.40	10.35	11.38
1 Trencher Attachment		74.30		81.73		
24 L.H., Daily Totals		\$1296.30		\$1863.13	\$54.01	\$77.63
<b>Crew B-63</b>						
4 Laborers	\$39.85	\$1275.20	\$60.70	\$1942.40	\$42.14	\$64.03
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Loader, Skid Steer, 30 H.P.		174.00		191.40	4.35	4.79
40 L.H., Daily Totals		\$1859.60		\$2752.60	\$46.49	\$68.81
<b>Crew B-63B</b>						
1 Labor Foreman (inside)	\$40.35	\$322.80	\$61.45	\$491.60	\$42.84	\$65.05
2 Laborers	39.85	637.60	60.70	971.20		
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Loader, Skid Steer, 78 H.P.		364.80		401.28	11.40	12.54
32 L.H., Daily Totals		\$1735.60		\$2482.88	\$54.24	\$77.59
<b>Crew B-64</b>						
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$42.17	\$63.85
1 Truck Driver (light)	44.50	356.00	67.00	536.00		
1 Power Mulcher (small)		139.20		153.12		
1 Flatbed Truck, Gas, 1.5 Ton		188.40		207.24	20.48	22.52
16 L.H., Daily Totals		\$1002.40		\$1381.96	\$62.65	\$86.37
<b>Crew B-65</b>						
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$42.17	\$63.85
1 Truck Driver (light)	44.50	356.00	67.00	536.00		
1 Power Mulcher (Large)		268.80		295.68		
1 Flatbed Truck, Gas, 1.5 Ton		188.40		207.24	28.57	31.43
16 L.H., Daily Totals		\$1132.00		\$1524.52	\$70.75	\$95.28

# Crews - Standard

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-66</b>						
1 Equip. Oper. (light)	\$51.30	\$410.40	\$77.35	\$618.80	\$51.30	\$77.35
1 Loader-Backhoe, 40 H.P.		247.00		271.70	30.88	33.96
8 L.H., Daily Totals		\$657.40		\$890.50	\$82.17	\$111.31
<b>Crew B-67</b>						
1 Millwright	\$52.75	\$422.00	\$76.95	\$615.60	\$52.02	\$77.15
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 R.T. Forklift, 5,000 Lb., diesel		267.60		294.36	16.73	18.40
16 L.H., Daily Totals		\$1100.00		\$1528.76	\$68.75	\$95.55
<b>Crew B-67B</b>						
1 Millwright Foreman (inside)	\$53.25	\$426.00	\$77.70	\$621.60	\$53.00	\$77.33
1 Millwright	52.75	422.00	76.95	615.60		
16 L.H., Daily Totals		\$848.00		\$1237.20	\$53.00	\$77.33
<b>Crew B-68</b>						
2 Millwrights	\$52.75	\$844.00	\$76.95	\$1231.20	\$52.27	\$77.08
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 R.T. Forklift, 5,000 Lb., diesel		267.60		294.36	11.15	12.27
24 L.H., Daily Totals		\$1522.00		\$2144.36	\$63.42	\$89.35
<b>Crew B-68A</b>						
1 Millwright Foreman (inside)	\$53.25	\$426.00	\$77.70	\$621.60	\$52.92	\$77.20
2 Millwrights	52.75	844.00	76.95	1231.20		
1 Forklift, Smooth Floor, 8,000 Lb.		148.20		163.02	6.17	6.79
24 L.H., Daily Totals		\$1418.20		\$2015.82	\$59.09	\$83.99
<b>Crew B-68B</b>						
1 Millwright Foreman (inside)	\$53.25	\$426.00	\$77.70	\$621.60	\$57.06	\$84.69
2 Millwrights	52.75	844.00	76.95	1231.20		
2 Electricians	58.20	931.20	87.00	1392.00		
2 Plumbers	62.15	994.40	93.60	1497.60		
1 R.T. Forklift, 5,000 Lb., gas		279.00		306.90	4.98	5.48
56 L.H., Daily Totals		\$3474.60		\$5049.30	\$62.05	\$90.17
<b>Crew B-68C</b>						
1 Millwright Foreman (inside)	\$53.25	\$426.00	\$77.70	\$621.60	\$56.59	\$83.81
1 Millwright	52.75	422.00	76.95	615.60		
1 Electrician	58.20	465.60	87.00	696.00		
1 Plumber	62.15	497.20	93.60	748.80		
1 R.T. Forklift, 5,000 Lb., gas		279.00		306.90	8.72	9.59
32 L.H., Daily Totals		\$2089.80		\$2988.90	\$65.31	\$93.40
<b>Crew B-68D</b>						
1 Labor Foreman (inside)	\$40.35	\$322.80	\$61.45	\$491.60	\$43.83	\$66.50
1 Laborer	39.85	318.80	60.70	485.60		
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 R.T. Forklift, 5,000 Lb., gas		279.00		306.90	11.63	12.79
24 L.H., Daily Totals		\$1331.00		\$1902.90	\$55.46	\$79.29
<b>Crew B-68E</b>						
1 Struc. Steel Foreman (inside)	\$55.15	\$441.20	\$90.15	\$721.20	\$54.75	\$89.51
3 Struc. Steel Workers	54.65	1311.60	89.35	2144.40		
1 Welder	54.65	437.20	89.35	714.80		
1 Forklift, Smooth Floor, 8,000 Lb.		148.20		163.02	3.71	4.08
40 L.H., Daily Totals		\$2338.20		\$3743.42	\$58.45	\$93.59

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-68F</b>						
1 Skilled Worker Foreman (out)	\$54.35	\$434.80	\$83.20	\$665.60	\$53.02	\$81.17
2 Skilled Workers	52.35	837.60	80.15	1282.40		
1 R.T. Forklift, 5,000 Lb., gas		279.00		306.90	11.63	12.79
24 L.H., Daily Totals		\$1551.40		\$2254.90	\$64.64	\$93.95
<b>Crew B-68G</b>						
2 Structural Steel Workers	\$54.65	\$874.40	\$89.35	\$1429.60	\$54.65	\$89.35
1 R.T. Forklift, 5,000 Lb., gas		279.00		306.90	17.44	19.18
16 L.H., Daily Totals		\$1153.40		\$1736.50	\$72.09	\$108.53
<b>Crew B-69</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$44.35	\$67.29
3 Laborers	39.85	956.40	60.70	1456.80		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
1 Hyd. Crane, 80 Ton		1518.00		1669.80	31.63	34.79
48 L.H., Daily Totals		\$3646.80		\$4899.80	\$75.97	\$102.08
<b>Crew B-69A</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$43.78	\$66.22
3 Laborers	39.85	956.40	60.70	1456.80		
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
1 Concrete Finisher	47.55	380.40	70.45	563.60		
1 Curb/Gutter Paver, 2-Track		1173.00		1290.30	24.44	26.88
48 L.H., Daily Totals		\$3274.60		\$4469.10	\$68.22	\$93.11
<b>Crew B-69B</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$43.78	\$66.22
3 Laborers	39.85	956.40	60.70	1456.80		
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
1 Cement Finisher	47.55	380.40	70.45	563.60		
1 Curb/Gutter Paver, 4-Track		789.60		868.56	16.45	18.09
48 L.H., Daily Totals		\$2891.20		\$4047.36	\$60.23	\$84.32
<b>Crew B-70</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$46.09	\$69.86
3 Laborers	39.85	956.40	60.70	1456.80		
3 Equip. Oper. (medium)	53.75	1290.00	81.05	1945.20		
1 Grader, 30,000 Lbs.		643.80		708.18		
1 Ripper, Beam & 1 Shank		87.80		96.58		
1 Road Sweeper, S.P., 8' wide		688.60		757.46		
1 F.E. Loader, W.M., 1.5 C.Y.		342.80		377.08	31.48	34.63
56 L.H., Daily Totals		\$4344.20		\$5851.30	\$77.58	\$104.49
<b>Crew B-70A</b>						
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$50.97	\$76.98
4 Equip. Oper. (medium)	53.75	1720.00	81.05	2593.60		
1 Grader, 40,000 Lbs.		1191.00		1310.10		
1 F.E. Loader, W.M., 2.5 C.Y.		523.20		575.52		
1 Dozer, 80 H.P.		464.40		510.84		
1 Roller, Pneum. Whl., 12 Ton		338.20		372.02	62.92	69.21
40 L.H., Daily Totals		\$4555.60		\$5847.68	\$113.89	\$146.19
<b>Crew B-71</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$46.09	\$69.86
3 Laborers	39.85	956.40	60.70	1456.80		
3 Equip. Oper. (medium)	53.75	1290.00	81.05	1945.20		
1 Pvmr. Profiler, 750 H.P.		5419.00		5960.90		
1 Road Sweeper, S.P., 8' wide		688.60		757.46		
1 F.E. Loader, W.M., 1.5 C.Y.		342.80		377.08	115.19	126.70
56 L.H., Daily Totals		\$9031.60		\$11007.44	\$161.28	\$196.56

# Crews - Standard

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-72</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$47.05	\$71.26
3 Laborers	39.85	956.40	60.70	1456.80		
4 Equip. Oper. (medium)	53.75	1720.00	81.05	2593.60		
1 Pvmt. Profiler, 750 H.P.		5419.00		5960.90		
1 Hammermill, 250 H.P.		1870.00		2057.00		
1 Windrow Loader		1242.00		1366.20		
1 Mix Paver, 165 H.P.		2140.00		2354.00		
1 Roller, Pneum. Whl., 12 Ton		338.20		372.02	172.02	189.22
64 L.H., Daily Totals		\$14020.40		\$16670.52	\$219.07	\$260.48
<b>Crew B-73</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$48.79	\$73.80
2 Laborers	39.85	637.60	60.70	971.20		
5 Equip. Oper. (medium)	53.75	2150.00	81.05	3242.00		
1 Road Mixer, 310 H.P.		1889.00		2077.90		
1 Tandem Roller, 10 Ton		231.40		254.54		
1 Hammermill, 250 H.P.		1870.00		2057.00		
1 Grader, 30,000 Lbs.		643.80		708.18		
.5 F.E. Loader, W.M., 1.5 C.Y.		171.40		188.54		
.5 Truck Tractor, 220 H.P.		145.00		159.50		
.5 Water Tank Trailer, 5000 Gal.		73.80		81.18	78.51	86.36
64 L.H., Daily Totals		\$8146.80		\$10250.04	\$127.29	\$160.16
<b>Crew B-74</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$48.59	\$73.41
1 Laborer	39.85	318.80	60.70	485.60		
4 Equip. Oper. (medium)	53.75	1720.00	81.05	2593.60		
2 Truck Drivers (heavy)	46.00	736.00	69.30	1108.80		
1 Grader, 30,000 Lbs.		643.80		708.18		
1 Ripper, Beam & 1 Shank		87.80		96.58		
2 Stabilizers, 310 H.P.		3436.00		3779.60		
1 Flatbed Truck, Gas, 3 Ton		238.00		261.80		
1 Chem. Spreader, Towed		52.20		57.42		
1 Roller, Vibratory, 25 Ton		659.80		725.78		
1 Water Tank Trailer, 5000 Gal.		147.60		162.36		
1 Truck Tractor, 220 H.P.		290.00		319.00	86.80	95.48
64 L.H., Daily Totals		\$8664.80		\$10808.72	\$135.39	\$168.89
<b>Crew B-75</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$48.96	\$73.99
1 Laborer	39.85	318.80	60.70	485.60		
4 Equip. Oper. (medium)	53.75	1720.00	81.05	2593.60		
1 Truck Driver (heavy)	46.00	368.00	69.30	554.40		
1 Grader, 30,000 Lbs.		643.80		708.18		
1 Ripper, Beam & 1 Shank		87.80		96.58		
2 Stabilizers, 310 H.P.		3436.00		3779.60		
1 Dist. Tanker, 3000 Gallon		326.80		359.48		
1 Truck Tractor, 6x4, 380 H.P.		476.20		523.82		
1 Roller, Vibratory, 25 Ton		659.80		725.78	100.54	110.60
56 L.H., Daily Totals		\$8372.00		\$10337.04	\$149.50	\$184.59

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-76</b>						
1 Dock Builder Foreman (outside)	\$53.30	\$426.40	\$84.05	\$672.40	\$52.29	\$81.23
5 Dock Builders	51.30	2052.00	80.90	3236.00		
2 Equip. Oper. (crane)	56.10	897.60	84.60	1353.60		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
1 Crawler Crane, 50 Ton		1940.00		2134.00		
1 Barge, 400 Ton		835.40		918.94		
1 Hammer, Diesel, 15K ft.-lbs.		623.20		685.52		
1 Lead, 60' High		79.40		87.34		
1 Air Compressor, 600 cfm		417.20		458.92		
2 -50' Air Hoses, 3"		86.40		95.04	55.30	60.83
72 L.H., Daily Totals		\$7746.40		\$10228.16	\$107.59	\$142.06
<b>Crew B-76A</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$43.23	\$65.64
5 Laborers	39.85	1594.00	60.70	2428.00		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
1 Crawler Crane, 50 Ton		1940.00		2134.00		
1 Barge, 400 Ton		835.40		918.94	43.37	47.70
64 L.H., Daily Totals		\$5541.80		\$7254.14	\$86.59	\$113.35
<b>Crew B-77</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$41.18	\$62.57
3 Laborers	39.85	956.40	60.70	1456.80		
1 Truck Driver (light)	44.50	356.00	67.00	536.00		
1 Crack Cleaner, 25 H.P.		55.80		61.38		
1 Crack Filler, Trailer Mtd.		198.20		218.02		
1 Flatbed Truck, Gas, 3 Ton		238.00		261.80	12.30	13.53
40 L.H., Daily Totals		\$2139.20		\$3044.00	\$53.48	\$76.10
<b>Crew B-78</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$40.96	\$62.26
4 Laborers	39.85	1275.20	60.70	1942.40		
1 Truck Driver (light)	44.50	356.00	67.00	536.00		
1 Paint Striper, S.P., 40 Gallon		151.00		166.10		
1 Flatbed Truck, Gas, 3 Ton		238.00		261.80		
1 Pickup Truck, 3/4 Ton		115.20		126.72	10.50	11.55
48 L.H., Daily Totals		\$2470.20		\$3543.02	\$51.46	\$73.81
<b>Crew B-78A</b>						
1 Equip. Oper. (light)	\$51.30	\$410.40	\$77.35	\$618.80	\$51.30	\$77.35
1 Line Rem. (Metal Balls) 115 H.P.		852.60		937.86	106.58	117.23
8 L.H., Daily Totals		\$1263.00		\$1556.66	\$157.88	\$194.58
<b>Crew B-78B</b>						
2 Laborers	\$39.85	\$637.60	\$60.70	\$971.20	\$41.12	\$62.55
.25 Equip. Oper. (light)	51.30	102.60	77.35	154.70		
1 Pickup Truck, 3/4 Ton		115.20		126.72		
1 Line Rem., 11 H.P., Walk Behind		61.40		67.54		
.25 Road Sweeper, S.P., 8' wide		172.15		189.37	19.38	21.31
18 L.H., Daily Totals		\$1088.95		\$1509.53	\$60.50	\$83.86
<b>Crew B-78C</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$40.96	\$62.26
4 Laborers	39.85	1275.20	60.70	1942.40		
1 Truck Driver (light)	44.50	356.00	67.00	536.00		
1 Paint Striper, T.M., 120 Gal.		690.00		759.00		
1 Flatbed Truck, Gas, 3 Ton		238.00		261.80		
1 Pickup Truck, 3/4 Ton		115.20		126.72	21.73	23.91
48 L.H., Daily Totals		\$3009.20		\$4135.92	\$62.69	\$86.17

# Crews - Standard

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-78D</b>						
2 Labor Foremen (outside)	\$41.85	\$669.60	\$63.75	\$1020.00	\$40.72	\$61.94
7 Laborers	39.85	2231.60	60.70	3399.20		
1 Truck Driver (light)	44.50	356.00	67.00	536.00		
1 Paint Striper, T.M., 120 Gal.		690.00		759.00		
1 Flatbed Truck, Gas, 3 Ton		238.00		261.80		
3 Pickup Trucks, 3/4 Ton		345.60		380.16		
1 Air Compressor, 60 cfm		105.40		115.94		
1 -50' Air Hose, 3/4"		7.35		8.09		
1 Breaker, Pavement, 60 lb.		10.60		11.66	17.46	19.21
80 L.H., Daily Totals		\$4654.15		\$6491.85	\$58.18	\$81.15
<b>Crew B-78E</b>						
2 Labor Foremen (outside)	\$41.85	\$669.60	\$63.75	\$1020.00	\$40.57	\$61.73
9 Laborers	39.85	2869.20	60.70	4370.40		
1 Truck Driver (light)	44.50	356.00	67.00	536.00		
1 Paint Striper, T.M., 120 Gal.		690.00		759.00		
1 Flatbed Truck, Gas, 3 Ton		238.00		261.80		
4 Pickup Trucks, 3/4 Ton		460.80		506.88		
2 Air Compressors, 60 cfm		210.80		231.88		
2 -50' Air Hoses, 3/4"		14.70		16.17		
2 Breakers, Pavement, 60 lb.		21.20		23.32	17.04	18.74
96 L.H., Daily Totals		\$5530.30		\$7725.45	\$57.61	\$80.47
<b>Crew B-78F</b>						
2 Labor Foremen (outside)	\$41.85	\$669.60	\$63.75	\$1020.00	\$40.47	\$61.59
11 Laborers	39.85	3506.80	60.70	5341.60		
1 Truck Driver (light)	44.50	356.00	67.00	536.00		
1 Paint Striper, T.M., 120 Gal.		690.00		759.00		
1 Flatbed Truck, Gas, 3 Ton		238.00		261.80		
7 Pickup Trucks, 3/4 Ton		806.40		887.04		
3 Air Compressors, 60 cfm		316.20		347.82		
3 -50' Air Hoses, 3/4"		22.05		24.25		
3 Breakers, Pavement, 60 lb.		31.80		34.98	18.79	20.67
112 L.H., Daily Totals		\$6636.85		\$9212.50	\$59.26	\$82.25
<b>Crew B-79</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$41.18	\$62.57
3 Laborers	39.85	956.40	60.70	1456.80		
1 Truck Driver (light)	44.50	356.00	67.00	536.00		
1 Paint Striper, T.M., 120 Gal.		690.00		759.00		
1 Heating Kettle, 115 Gallon		77.85		85.64		
1 Flatbed Truck, Gas, 3 Ton		238.00		261.80		
2 Pickup Trucks, 3/4 Ton		230.40		253.44	30.91	34.00
40 L.H., Daily Totals		\$2883.45		\$3862.68	\$72.09	\$96.57
<b>Crew B-79A</b>						
1.5 Equip. Oper. (light)	\$51.30	\$615.60	\$77.35	\$928.20	\$51.30	\$77.35
.5 Line Remov. (Grinder) 115 H.P.		459.70		505.67		
1 Line Rem. (Metal Balls) 115 H.P.		852.60		937.86	109.36	120.29
12 L.H., Daily Totals		\$1927.90		\$2371.73	\$160.66	\$197.64
<b>Crew B-79B</b>						
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$39.85	\$60.70
1 Set of Gases		168.00		184.80	21.00	23.10
8 L.H., Daily Totals		\$486.80		\$670.40	\$60.85	\$83.80

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-79C</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$40.80	\$62.04
5 Laborers	39.85	1594.00	60.70	2428.00		
1 Truck Driver (light)	44.50	356.00	67.00	536.00		
1 Paint Striper, T.M., 120 Gal.		690.00		759.00		
1 Heating Kettle, 115 Gallon		77.85		85.64		
1 Flatbed Truck, Gas, 3 Ton		238.00		261.80		
3 Pickup Trucks, 3/4 Ton		345.60		380.16		
1 Air Compressor, 60 cfm		105.40		115.94		
1 -50' Air Hose, 3/4"		7.35		8.09		
1 Breaker, Pavement, 60 lb.		10.60		11.66	26.34	28.97
56 L.H., Daily Totals		\$3759.60		\$5096.28	\$67.14	\$91.00
<b>Crew B-79D</b>						
2 Labor Foremen (outside)	\$41.85	\$669.60	\$63.75	\$1020.00	\$40.93	\$62.25
5 Laborers	39.85	1594.00	60.70	2428.00		
1 Truck Driver (light)	44.50	356.00	67.00	536.00		
1 Paint Striper, T.M., 120 Gal.		690.00		759.00		
1 Heating Kettle, 115 Gallon		77.85		85.64		
1 Flatbed Truck, Gas, 3 Ton		238.00		261.80		
4 Pickup Trucks, 3/4 Ton		460.80		506.88		
1 Air Compressor, 60 cfm		105.40		115.94		
1 -50' Air Hose, 3/4"		7.35		8.09		
1 Breaker, Pavement, 60 lb.		10.60		11.66	24.84	27.33
64 L.H., Daily Totals		\$4209.60		\$5733.00	\$65.78	\$89.58
<b>Crew B-79E</b>						
2 Labor Foremen (outside)	\$41.85	\$669.60	\$63.75	\$1020.00	\$40.72	\$61.94
7 Laborers	39.85	2231.60	60.70	3399.20		
1 Truck Driver (light)	44.50	356.00	67.00	536.00		
1 Paint Striper, T.M., 120 Gal.		690.00		759.00		
1 Heating Kettle, 115 Gallon		77.85		85.64		
1 Flatbed Truck, Gas, 3 Ton		238.00		261.80		
5 Pickup Trucks, 3/4 Ton		576.00		633.60		
2 Air Compressors, 60 cfm		210.80		231.88		
2 -50' Air Hoses, 3/4"		14.70		16.17		
2 Breakers, Pavement, 60 lb.		21.20		23.32	22.86	25.14
80 L.H., Daily Totals		\$5085.75		\$6966.60	\$63.57	\$87.08
<b>Crew B-80</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$44.38	\$67.20
1 Laborer	39.85	318.80	60.70	485.60		
1 Truck Driver (light)	44.50	356.00	67.00	536.00		
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Flatbed Truck, Gas, 3 Ton		238.00		261.80		
1 Earth Auger, Truck-Mtd.		373.80		411.18	19.12	21.03
32 L.H., Daily Totals		\$2031.80		\$2823.38	\$63.49	\$88.23
<b>Crew B-80A</b>						
3 Laborers	\$39.85	\$956.40	\$60.70	\$1456.80	\$39.85	\$60.70
1 Flatbed Truck, Gas, 3 Ton		238.00		261.80	9.92	10.91
24 L.H., Daily Totals		\$1194.40		\$1718.60	\$49.77	\$71.61
<b>Crew B-80B</b>						
3 Laborers	\$39.85	\$956.40	\$60.70	\$1456.80	\$42.71	\$64.86
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Crane, Flatbed Mounted, 3 Ton		235.80		259.38	7.37	8.11
32 L.H., Daily Totals		\$1602.60		\$2334.98	\$50.08	\$72.97

# Crews - Standard

Crew No.	Bare Costs		Incl.		Cost	
			Subs O&P	Daily	Per Labor-Hour	Incl. O&P
<b>Crew B-80C</b>	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
2 Laborers	\$39.85	\$637.60	\$60.70	\$971.20	\$41.40	\$62.80
1 Truck Driver (light)	44.50	356.00	67.00	536.00		
1 Flatbed Truck, Gas, 1.5 Ton		188.40		207.24		
1 Manual Fence Post Auger, Gas		7.40		8.14	8.16	8.97
24 L.H., Daily Totals		\$1189.40		\$1722.58	\$49.56	\$71.77
<b>Crew B-81</b>	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$46.53	\$70.35
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
1 Truck Driver (heavy)	46.00	368.00	69.30	554.40		
1 Hydromulcher, T.M., 3000 Gal.		282.80		311.08		
1 Truck Tractor, 220 H.P.		290.00		319.00	23.87	26.25
24 L.H., Daily Totals		\$1689.60		\$2318.48	\$70.40	\$96.60
<b>Crew B-81A</b>	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$42.17	\$63.85
1 Truck Driver (light)	44.50	356.00	67.00	536.00		
1 Hydromulcher, T.M., 600 Gal.		121.20		133.32		
1 Flatbed Truck, Gas, 3 Ton		238.00		261.80	22.45	24.70
16 L.H., Daily Totals		\$1034.00		\$1416.72	\$64.63	\$88.55
<b>Crew B-82</b>	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$45.58	\$69.03
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Horiz. Borer, 6 H.P.		78.00		85.80	4.88	5.36
16 L.H., Daily Totals		\$807.20		\$1190.20	\$50.45	\$74.39
<b>Crew B-82A</b>	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
2 Laborers	\$39.85	\$637.60	\$60.70	\$971.20	\$45.58	\$69.03
2 Equip. Oper. (light)	51.30	820.80	77.35	1237.60		
2 Dump Trucks, 8 C.Y., 220 H.P.		677.20		744.92		
1 Flatbed Trailer, 25 Ton		133.00		146.30		
1 Horiz. Dir. Drill, 20k lb. Thrust		629.00		691.90		
1 Mud Trailer for HDD, 1500 Gal.		287.80		316.58		
1 Pickup Truck, 4x4, 3/4 Ton		126.60		139.26		
1 Flatbed Trailer, 3 Ton		25.40		27.94		
1 Loader, Skid Steer, 78 H.P.		364.80		401.28	70.12	77.13
32 L.H., Daily Totals		\$3702.20		\$4676.98	\$115.69	\$146.16
<b>Crew B-82B</b>	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
2 Laborers	\$39.85	\$637.60	\$60.70	\$971.20	\$45.58	\$69.03
2 Equip. Oper. (light)	51.30	820.80	77.35	1237.60		
2 Dump Trucks, 8 C.Y., 220 H.P.		677.20		744.92		
1 Flatbed Trailer, 25 Ton		133.00		146.30		
1 Horiz. Dir. Drill, 30k lb. Thrust		896.20		985.82		
1 Mud Trailer for HDD, 1500 Gal.		287.80		316.58		
1 Pickup Truck, 4x4, 3/4 Ton		126.60		139.26		
1 Flatbed Trailer, 3 Ton		25.40		27.94		
1 Loader, Skid Steer, 78 H.P.		364.80		401.28	78.47	86.32
32 L.H., Daily Totals		\$3969.40		\$4970.90	\$124.04	\$155.34

Crew No.	Bare Costs		Incl.		Cost	
			Subs O&P	Daily	Per Labor-Hour	Incl. O&P
<b>Crew B-82C</b>	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
2 Laborers	\$39.85	\$637.60	\$60.70	\$971.20	\$45.58	\$69.03
2 Equip. Oper. (light)	51.30	820.80	77.35	1237.60		
2 Dump Trucks, 8 C.Y., 220 H.P.		677.20		744.92		
1 Flatbed Trailer, 25 Ton		133.00		146.30		
1 Horiz. Dir. Drill, 50k lb. Thrust		1188.00		1306.80		
1 Mud Trailer for HDD, 1500 Gal.		287.80		316.58		
1 Pickup Truck, 4x4, 3/4 Ton		126.60		139.26		
1 Flatbed Trailer, 3 Ton		25.40		27.94		
1 Loader, Skid Steer, 78 H.P.		364.80		401.28	87.59	96.35
32 L.H., Daily Totals		\$4261.20		\$5291.88	\$133.16	\$165.37
<b>Crew B-82D</b>	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
1 Equip. Oper. (light)	\$51.30	\$410.40	\$77.35	\$618.80	\$51.30	\$77.35
1 Mud Trailer for HDD, 1500 Gal.		287.80		316.58	35.98	39.57
8 L.H., Daily Totals		\$698.20		\$935.38	\$87.28	\$116.92
<b>Crew B-83</b>	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
1 Tugboat Captain	\$53.75	\$430.00	\$81.05	\$648.40	\$46.80	\$70.88
1 Tugboat Hand	39.85	318.80	60.70	485.60		
1 Tugboat, 250 H.P.		680.20		748.22	42.51	46.76
16 L.H., Daily Totals		\$1429.00		\$1882.22	\$89.31	\$117.64
<b>Crew B-84</b>	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$53.75	\$81.05
1 Rotary Mower/Tractor		357.00		392.70	44.63	49.09
8 L.H., Daily Totals		\$787.00		\$1041.10	\$98.38	\$130.14
<b>Crew B-85</b>	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
3 Laborers	\$39.85	\$956.40	\$60.70	\$1456.80	\$43.86	\$66.49
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
1 Truck Driver (heavy)	46.00	368.00	69.30	554.40		
1 Telescoping Boom Lift, to 80'		548.60		603.46		
1 Brush Chipper, 12", 130 H.P.		393.00		432.30		
1 Pruning Saw, Rotary		6.65		7.32	23.71	26.08
40 L.H., Daily Totals		\$2702.65		\$3702.68	\$67.57	\$92.57
<b>Crew B-86</b>	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$53.75	\$81.05
1 Stump Chipper, S.P.		184.05		202.46	23.01	25.31
8 L.H., Daily Totals		\$614.05		\$850.86	\$76.76	\$106.36
<b>Crew B-86A</b>	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$53.75	\$81.05
1 Grader, 30,000 Lbs.		643.80		708.18	80.47	88.52
8 L.H., Daily Totals		\$1073.80		\$1356.58	\$134.22	\$169.57
<b>Crew B-86B</b>	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$53.75	\$81.05
1 Dozer, 200 H.P.		1273.00		1400.30	159.13	175.04
8 L.H., Daily Totals		\$1703.00		\$2048.70	\$212.88	\$256.09
<b>Crew B-87</b>	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$50.97	\$76.98
4 Equip. Oper. (medium)	53.75	1720.00	81.05	2593.60		
2 Feller Bunchers, 100 H.P.		1620.80		1782.88		
1 Log Chipper, 22" Tree		764.80		841.28		
1 Dozer, 105 H.P.		608.00		668.80		
1 Chain Saw, Gas, 36" Long		46.40		51.04	76.00	83.60
40 L.H., Daily Totals		\$5078.80		\$6423.20	\$126.97	\$160.58

# Crews - Standard

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-88</b>						
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$51.76	\$78.14
6 Equip. Oper. (medium)	53.75	2580.00	81.05	3890.40		
2 Feller Bunchers, 100 H.P.		1620.80		1782.88		
1 Log Chipper, 22" Tree		764.80		841.28		
2 Log Skidders, 50 H.P.		1698.80		1868.68		
1 Dozer, 105 H.P.		608.00		668.80		
1 Chain Saw, Gas, 36" Long		46.40		51.04	84.62	93.08
56 L.H., Daily Totals		\$7637.60		\$9588.68	\$136.39	\$171.23
<b>Crew B-89</b>						
1 Equip. Oper. (light)	\$51.30	\$410.40	\$77.35	\$618.80	\$47.90	\$72.17
1 Truck Driver (light)	44.50	356.00	67.00	536.00		
1 Flatbed Truck, Gas, 3 Ton		238.00		261.80		
1 Concrete Saw		102.40		112.64		
1 Water Tank, 65 Gal.		79.90		87.89	26.27	28.90
16 L.H., Daily Totals		\$1186.70		\$1617.13	\$74.17	\$101.07
<b>Crew B-89A</b>						
1 Skilled Worker	\$52.35	\$418.80	\$80.15	\$641.20	\$46.10	\$70.42
1 Laborer	39.85	318.80	60.70	485.60		
1 Core Drill (Large)		112.20		123.42	7.01	7.71
16 L.H., Daily Totals		\$849.80		\$1250.22	\$53.11	\$78.14
<b>Crew B-89B</b>						
1 Equip. Oper. (light)	\$51.30	\$410.40	\$77.35	\$618.80	\$47.90	\$72.17
1 Truck Driver (light)	44.50	356.00	67.00	536.00		
1 Wall Saw, Hydraulic, 10 H.P.		46.40		51.04		
1 Generator, Diesel, 100 kW		307.60		338.36		
1 Water Tank, 65 Gal.		79.90		87.89		
1 Flatbed Truck, Gas, 3 Ton		238.00		261.80	41.99	46.19
16 L.H., Daily Totals		\$1438.30		\$1893.89	\$89.89	\$118.37
<b>Crew B-90</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$44.50	\$67.39
3 Laborers	39.85	956.40	60.70	1456.80		
2 Equip. Oper. (light)	51.30	820.80	77.35	1237.60		
2 Truck Drivers (heavy)	46.00	736.00	69.30	1108.80		
1 Road Mixer, 310 H.P.		1889.00		2077.90		
1 Dist. Truck, 2000 Gal.		296.00		325.60	34.14	37.55
64 L.H., Daily Totals		\$5033.00		\$6716.70	\$78.64	\$104.95
<b>Crew B-90A</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$48.08	\$72.76
2 Laborers	39.85	637.60	60.70	971.20		
4 Equip. Oper. (medium)	53.75	1720.00	81.05	2593.60		
2 Graders, 30,000 Lbs.		1287.60		1416.36		
1 Tandem Roller, 10 Ton		231.40		254.54		
1 Roller, Pneum. Whl., 12 Ton		338.20		372.02	33.16	36.48
56 L.H., Daily Totals		\$4549.60		\$6117.72	\$81.24	\$109.25
<b>Crew B-90B</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$47.13	\$71.38
2 Laborers	39.85	637.60	60.70	971.20		
3 Equip. Oper. (medium)	53.75	1290.00	81.05	1945.20		
1 Roller, Pneum. Whl., 12 Ton		338.20		372.02		
1 Road Mixer, 310 H.P.		1889.00		2077.90	46.40	51.04
48 L.H., Daily Totals		\$4489.60		\$5876.32	\$93.53	\$122.42

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew B-90C</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$45.50	\$68.87
4 Laborers	39.85	1275.20	60.70	1942.40		
3 Equip. Oper. (medium)	53.75	1290.00	81.05	1945.20		
3 Truck Drivers (heavy)	46.00	1104.00	69.30	1663.20		
3 Road Mixers, 310 H.P.		5667.00		6233.70	64.40	70.84
88 L.H., Daily Totals		\$9671.00		\$12294.50	\$109.90	\$139.71
<b>Crew B-90D</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$44.63	\$67.62
6 Laborers	39.85	1912.80	60.70	2913.60		
3 Equip. Oper. (medium)	53.75	1290.00	81.05	1945.20		
3 Truck Drivers (heavy)	46.00	1104.00	69.30	1663.20		
3 Road Mixers, 310 H.P.		5667.00		6233.70	54.49	59.94
104 L.H., Daily Totals		\$10308.60		\$13265.70	\$99.12	\$127.55
<b>Crew B-90E</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$45.39	\$68.78
4 Laborers	39.85	1275.20	60.70	1942.40		
3 Equip. Oper. (medium)	53.75	1290.00	81.05	1945.20		
1 Truck Driver (heavy)	46.00	368.00	69.30	554.40		
1 Road Mixer, 310 H.P.		1889.00		2077.90	26.24	28.86
72 L.H., Daily Totals		\$5157.00		\$7029.90	\$71.63	\$97.64
<b>Crew B-91</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$47.82	\$72.33
2 Laborers	39.85	637.60	60.70	971.20		
4 Equip. Oper. (medium)	53.75	1720.00	81.05	2593.60		
1 Truck Driver (heavy)	46.00	368.00	69.30	554.40		
1 Dist. Tanker, 3000 Gallon		326.80		359.48		
1 Truck Tractor, 6x4, 380 H.P.		476.20		523.82		
1 Aggreg. Spreader, S.P.		837.00		920.70		
1 Roller, Pneum. Whl., 12 Ton		338.20		372.02		
1 Tandem Roller, 10 Ton		231.40		254.54	34.52	37.98
64 L.H., Daily Totals		\$5270.00		\$7059.76	\$82.34	\$110.31
<b>Crew B-91B</b>						
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$46.80	\$70.88
1 Equipment Oper. (med.)	53.75	430.00	81.05	648.40		
1 Road Sweeper, Vac. Assist.		840.40		924.44	52.52	57.78
16 L.H., Daily Totals		\$1589.20		\$2058.44	\$99.33	\$128.65
<b>Crew B-91C</b>						
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$42.17	\$63.85
1 Truck Driver (light)	44.50	356.00	67.00	536.00		
1 Catch Basin Cleaning Truck		522.80		575.08	32.67	35.94
16 L.H., Daily Totals		\$1197.60		\$1596.68	\$74.85	\$99.79
<b>Crew B-91D</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$46.30	\$70.08
5 Laborers	39.85	1594.00	60.70	2428.00		
5 Equip. Oper. (medium)	53.75	2150.00	81.05	3242.00		
2 Truck Drivers (heavy)	46.00	736.00	69.30	1108.80		
1 Aggreg. Spreader, S.P.		837.00		920.70		
2 Truck Tractors, 6x4, 380 H.P.		952.40		1047.64		
2 Dist. Tankers, 3000 Gallon		653.60		718.96		
2 Pavement Brushes, Towed		170.40		187.44		
2 Rollers Pneum. Whl., 12 Ton		676.40		744.04	31.63	34.80
104 L.H., Daily Totals		\$8104.60		\$10907.58	\$77.93	\$104.88

# Crews - Standard

Crew No.	Bare Costs		Incl.		Cost	
			Subs O&P	Per Labor-Hour	Bare Costs	Incl. O&P
<b>Crew B-92</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$40.35	\$61.46
3 Laborers	39.85	956.40	60.70	1456.80		
1 Crack Cleaner, 25 H.P.		55.80		61.38		
1 Air Compressor, 60 cfm		105.40		115.94		
1 Tar Kettle, T.M.		129.20		142.12		
1 Flatbed Truck, Gas, 3 Ton		238.00		261.80	16.51	18.16
32 L.H., Daily Totals		\$1819.60		\$2548.04	\$56.86	\$79.63
<b>Crew B-93</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Equip. Oper. (medium)	\$53.75	\$430.00	\$81.05	\$648.40	\$53.75	\$81.05
1 Feller Buncher, 100 H.P.		810.40		891.44	101.30	111.43
8 L.H., Daily Totals		\$1240.40		\$1539.84	\$155.05	\$192.48
<b>Crew B-94A</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$39.85	\$60.70
1 Diaphragm Water Pump, 2"		73.00		80.30		
1 -20' Suction Hose, 2"		1.95		2.15		
2 -50' Discharge Hoses, 2"		1.80		1.98	9.59	10.55
8 L.H., Daily Totals		\$395.55		\$570.02	\$49.44	\$71.25
<b>Crew B-94B</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$39.85	\$60.70
1 Diaphragm Water Pump, 4"		114.80		126.28		
1 -20' Suction Hose, 4"		3.25		3.58		
2 -50' Discharge Hoses, 4"		4.70		5.17	15.34	16.88
8 L.H., Daily Totals		\$441.55		\$620.63	\$55.19	\$77.58
<b>Crew B-94C</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$39.85	\$60.70
1 Centrifugal Water Pump, 3"		79.20		87.12		
1 -20' Suction Hose, 3"		2.85		3.13		
2 -50' Discharge Hoses, 3"		3.00		3.30	10.63	11.69
8 L.H., Daily Totals		\$403.85		\$579.15	\$50.48	\$72.39
<b>Crew B-94D</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$39.85	\$60.70
1 Centr. Water Pump, 6"		296.40		326.04		
1 -20' Suction Hose, 6"		11.50		12.65		
2 -50' Discharge Hoses, 6"		12.20		13.42	40.01	44.01
8 L.H., Daily Totals		\$638.90		\$837.71	\$79.86	\$104.71
<b>Crew C-1</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
3 Carpenters	\$50.70	\$1216.80	\$77.20	\$1852.80	\$47.99	\$73.08
1 Laborer	39.85	318.80	60.70	485.60		
32 L.H., Daily Totals		\$1535.60		\$2338.40	\$47.99	\$73.08
<b>Crew C-2</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Carpenter Foreman (outside)	\$52.70	\$421.60	\$80.25	\$642.00	\$49.23	\$74.96
4 Carpenters	50.70	1622.40	77.20	2470.40		
1 Laborer	39.85	318.80	60.70	485.60		
48 L.H., Daily Totals		\$2362.80		\$3598.00	\$49.23	\$74.96
<b>Crew C-2A</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Carpenter Foreman (outside)	\$52.70	\$421.60	\$80.25	\$642.00	\$48.70	\$73.83
3 Carpenters	50.70	1216.80	77.20	1852.80		
1 Cement Finisher	47.55	380.40	70.45	563.60		
1 Laborer	39.85	318.80	60.70	485.60		
48 L.H., Daily Totals		\$2337.60		\$3544.00	\$48.70	\$73.83

Crew No.	Bare Costs		Incl.		Cost	
			Subs O&P	Per Labor-Hour	Bare Costs	Incl. O&P
<b>Crew C-3</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Rodman Foreman (outside)	\$56.65	\$453.20	\$86.50	\$692.00	\$50.78	\$77.38
4 Rodmen (reinf.)	54.65	1748.80	83.45	2670.40		
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
2 Laborers	39.85	637.60	60.70	971.20		
3 Stressing Equipment		31.20		34.32		
.5 Grouting Equipment		79.20		87.12	1.73	1.90
64 L.H., Daily Totals		\$3360.40		\$5073.84	\$52.51	\$79.28
<b>Crew C-4</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Rodman Foreman (outside)	\$56.65	\$453.20	\$86.50	\$692.00	\$55.15	\$84.21
3 Rodmen (reinf.)	54.65	1311.60	83.45	2002.80		
3 Stressing Equipment		31.20		34.32	.97	1.07
32 L.H., Daily Totals		\$1796.00		\$2729.12	\$56.13	\$85.28
<b>Crew C-4A</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
2 Rodmen (reinf.)	\$54.65	\$874.40	\$83.45	\$1335.20	\$54.65	\$83.45
4 Stressing Equipment		41.60		45.76	2.60	2.86
16 L.H., Daily Totals		\$916.00		\$1380.96	\$57.25	\$86.31
<b>Crew C-5</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Rodman Foreman (outside)	\$56.65	\$453.20	\$86.50	\$692.00	\$54.28	\$82.60
4 Rodmen (reinf.)	54.65	1748.80	83.45	2670.40		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Equip. Oper. (oilier)	48.60	388.80	73.30	586.40		
1 Hyd. Crane, 25 Ton		590.60		649.66	10.55	11.60
56 L.H., Daily Totals		\$3630.20		\$5275.26	\$64.83	\$94.20
<b>Crew C-6</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$41.47	\$62.83
4 Laborers	39.85	1275.20	60.70	1942.40		
1 Cement Finisher	47.55	380.40	70.45	563.60		
2 Gas Engine Vibrators		51.20		56.32	1.07	1.17
48 L.H., Daily Totals		\$2041.60		\$3072.32	\$42.53	\$64.01
<b>Crew C-7</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$43.44	\$65.78
5 Laborers	39.85	1594.00	60.70	2428.00		
1 Cement Finisher	47.55	380.40	70.45	563.60		
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
1 Equip. Oper. (oilier)	48.60	388.80	73.30	586.40		
2 Gas Engine Vibrators		51.20		56.32		
1 Concrete Bucket, 1 C.Y.		24.60		27.06		
1 Hyd. Crane, 55 Ton		993.80		1093.18	14.86	16.34
72 L.H., Daily Totals		\$4197.60		\$5912.96	\$58.30	\$82.12
<b>Crew C-7A</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$41.64	\$63.23
5 Laborers	39.85	1594.00	60.70	2428.00		
2 Truck Drivers (heavy)	46.00	736.00	69.30	1108.80		
2 Conc. Transit Mixers		1811.20		1992.32	28.30	31.13
64 L.H., Daily Totals		\$4476.00		\$6039.12	\$69.94	\$94.36
<b>Crew C-7B</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$43.23	\$65.64
5 Laborers	39.85	1594.00	60.70	2428.00		
1 Equipment Operator, Crane	56.10	448.80	84.60	676.80		
1 Equipment Oilier	48.60	388.80	73.30	586.40		
1 Conc. Bucket, 2 C.Y.		38.40		42.24		
1 Lattice Boom Crane, 165 Ton		2140.00		2354.00	34.04	37.44
64 L.H., Daily Totals		\$4944.80		\$6597.44	\$77.26	\$103.09

# Crews - Standard

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew C-7C</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$43.58	\$66.17
5 Laborers	39.85	1594.00	60.70	2428.00		
2 Equipment Operators (med.)	53.75	860.00	81.05	1296.80		
2 F.E. Loaders, W.M., 4 C.Y.		1149.20		1264.12	17.96	19.75
64 L.H., Daily Totals		\$3938.00		\$5498.92	\$61.53	\$85.92
<b>Crew C-7D</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$42.12	\$64.04
5 Laborers	39.85	1594.00	60.70	2428.00		
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
1 Concrete Conveyer		187.20		205.92	3.34	3.68
56 L.H., Daily Totals		\$2546.00		\$3792.32	\$45.46	\$67.72
<b>Crew C-8</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$44.32	\$66.83
3 Laborers	39.85	956.40	60.70	1456.80		
2 Cement Finishers	47.55	760.80	70.45	1127.20		
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
1 Concrete Pump (Small)		881.60		969.76	15.74	17.32
56 L.H., Daily Totals		\$3363.60		\$4712.16	\$60.06	\$84.15
<b>Crew C-8A</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$42.75	\$64.46
3 Laborers	39.85	956.40	60.70	1456.80		
2 Cement Finishers	47.55	760.80	70.45	1127.20		
48 L.H., Daily Totals		\$2052.00		\$3094.00	\$42.75	\$64.46
<b>Crew C-8B</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$43.03	\$65.38
3 Laborers	39.85	956.40	60.70	1456.80		
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
1 Vibrating Power Screed		75.35		82.89		
1 Roller, Vibratory, 25 Ton		659.80		725.78		
1 Dozer, 200 H.P.		1273.00		1400.30	50.20	55.22
40 L.H., Daily Totals		\$3729.35		\$4824.17	\$93.23	\$120.60
<b>Crew C-8C</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$43.78	\$66.22
3 Laborers	39.85	956.40	60.70	1456.80		
1 Cement Finisher	47.55	380.40	70.45	563.60		
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
1 Shotcrete Rig, 12 C.Y./hr		246.60		271.26		
1 Air Compressor, 160 cfm		117.20		128.92		
4 -50' Air Hoses, 1"		33.80		37.18		
4 -50' Air Hoses, 2"		103.60		113.96	10.44	11.49
48 L.H., Daily Totals		\$2602.80		\$3730.12	\$54.23	\$77.71
<b>Crew C-8D</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$45.14	\$68.06
1 Laborer	39.85	318.80	60.70	485.60		
1 Cement Finisher	47.55	380.40	70.45	563.60		
1 Equipment Oper. (light)	51.30	410.40	77.35	618.80		
1 Air Compressor, 250 cfm		167.40		184.14		
2 -50' Air Hoses, 1"		16.90		18.59	5.76	6.34
32 L.H., Daily Totals		\$1628.70		\$2380.73	\$50.90	\$74.40

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew C-8E</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$43.38	\$65.61
3 Laborers	39.85	956.40	60.70	1456.80		
1 Cement Finisher	47.55	380.40	70.45	563.60		
1 Equipment Oper. (light)	51.30	410.40	77.35	618.80		
1 Shotcrete Rig, 35 C.Y./hr		270.20		297.22		
1 Air Compressor, 250 cfm		167.40		184.14		
4 -50' Air Hoses, 1"		33.80		37.18		
4 -50' Air Hoses, 2"		103.60		113.96	11.98	13.18
48 L.H., Daily Totals		\$2657.00		\$3781.70	\$55.35	\$78.79
<b>Crew C-10</b>						
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$44.98	\$67.20
2 Cement Finishers	47.55	760.80	70.45	1127.20		
24 L.H., Daily Totals		\$1079.60		\$1612.80	\$44.98	\$67.20
<b>Crew C-10B</b>						
3 Laborers	\$39.85	\$956.40	\$60.70	\$1456.80	\$42.93	\$64.60
2 Cement Finishers	47.55	760.80	70.45	1127.20		
1 Concrete Mixer, 10 C.F.		161.00		177.10		
2 Trowels, 48" Walk-Behind		82.40		90.64	6.09	6.69
40 L.H., Daily Totals		\$1960.60		\$2851.74	\$49.02	\$71.29
<b>Crew C-10C</b>						
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$44.98	\$67.20
2 Cement Finishers	47.55	760.80	70.45	1127.20		
1 Trowel, 48" Walk-Behind		41.20		45.32	1.72	1.89
24 L.H., Daily Totals		\$1120.80		\$1658.12	\$46.70	\$69.09
<b>Crew C-10D</b>						
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$44.98	\$67.20
2 Cement Finishers	47.55	760.80	70.45	1127.20		
1 Vibrating Power Screed		75.35		82.89		
1 Trowel, 48" Walk-Behind		41.20		45.32	4.86	5.34
24 L.H., Daily Totals		\$1196.15		\$1741.01	\$49.84	\$72.54
<b>Crew C-10E</b>						
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$44.98	\$67.20
2 Cement Finishers	47.55	760.80	70.45	1127.20		
1 Vibrating Power Screed		75.35		82.89		
1 Cement Trowel, 96" Ride-On		166.20		182.82	10.06	11.07
24 L.H., Daily Totals		\$1321.15		\$1878.51	\$55.05	\$78.27
<b>Crew C-10F</b>						
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$44.98	\$67.20
2 Cement Finishers	47.55	760.80	70.45	1127.20		
1 Telescoping Boom Lift, to 60'		454.60		500.06	18.94	20.84
24 L.H., Daily Totals		\$1534.20		\$2112.86	\$63.92	\$88.04
<b>Crew C-11</b>						
1 Struc. Steel Foreman (outside)	\$56.65	\$453.20	\$92.60	\$740.80	\$54.36	\$87.40
6 Struc. Steel Workers	54.65	2623.20	89.35	4288.80		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Equip. Oper. (oilier)	48.60	388.80	73.30	586.40		
1 Lattice Boom Crane, 150 Ton		2017.00		2218.70	28.01	30.82
72 L.H., Daily Totals		\$5931.00		\$8511.50	\$82.38	\$118.22

# Crews - Standard

Crew No.	Bare Costs		Incl.		Cost	
			Subs O&P	Per Labor-Hour	Bare Costs	Incl. O&P
<b>Crew C-12</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Carpenter Foreman (outside)	\$52.70	\$421.60	\$80.25	\$642.00	\$50.13	\$76.19
3 Carpenters	50.70	1216.80	77.20	1852.80		
1 Laborer	39.85	318.80	60.70	485.60		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Hyd. Crane, 12 Ton		496.00		545.60	10.33	11.37
48 L.H., Daily Totals		\$2902.00		\$4202.80	\$60.46	\$87.56
<b>Crew C-13</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Struc. Steel Worker	\$54.65	\$437.20	\$89.35	\$714.80	\$53.33	\$85.30
1 Welder	54.65	437.20	89.35	714.80		
1 Carpenter	50.70	405.60	77.20	617.60		
1 Welder, Gas Engine, 300 amp		98.40		108.24	4.10	4.51
24 L.H., Daily Totals		\$1378.40		\$2155.44	\$57.43	\$89.81
<b>Crew C-14</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Carpenter Foreman (outside)	\$52.70	\$421.60	\$80.25	\$642.00	\$49.11	\$74.54
5 Carpenters	50.70	2028.00	77.20	3088.00		
4 Laborers	39.85	1275.20	60.70	1942.40		
4 Rodmen (reinf.)	54.65	1748.80	83.45	2670.40		
2 Cement Finishers	47.55	760.80	70.45	1127.20		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Equip. Oper. (oilier)	48.60	388.80	73.30	586.40		
1 Hyd. Crane, 80 Ton		1518.00		1669.80	10.54	11.60
144 L.H., Daily Totals		\$8590.00		\$12403.00	\$59.65	\$86.13
<b>Crew C-14A</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Carpenter Foreman (outside)	\$52.70	\$421.60	\$80.25	\$642.00	\$50.54	\$76.89
16 Carpenters	50.70	6489.60	77.20	9881.60		
4 Rodmen (reinf.)	54.65	1748.80	83.45	2670.40		
2 Laborers	39.85	637.60	60.70	971.20		
1 Cement Finisher	47.55	380.40	70.45	563.60		
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
1 Gas Engine Vibrator		25.60		28.16		
1 Concrete Pump (Small)		881.60		969.76	4.54	4.99
200 L.H., Daily Totals		\$11015.20		\$16375.12	\$55.08	\$81.88
<b>Crew C-14B</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Carpenter Foreman (outside)	\$52.70	\$421.60	\$80.25	\$642.00	\$50.42	\$76.64
16 Carpenters	50.70	6489.60	77.20	9881.60		
4 Rodmen (reinf.)	54.65	1748.80	83.45	2670.40		
2 Laborers	39.85	637.60	60.70	971.20		
2 Cement Finishers	47.55	760.80	70.45	1127.20		
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
1 Gas Engine Vibrator		25.60		28.16		
1 Concrete Pump (Small)		881.60		969.76	4.36	4.80
208 L.H., Daily Totals		\$11395.60		\$16938.72	\$54.79	\$81.44
<b>Crew C-14C</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Carpenter Foreman (outside)	\$52.70	\$421.60	\$80.25	\$642.00	\$48.08	\$73.11
6 Carpenters	50.70	2433.60	77.20	3705.60		
2 Rodmen (reinf.)	54.65	874.40	83.45	1335.20		
4 Laborers	39.85	1275.20	60.70	1942.40		
1 Cement Finisher	47.55	380.40	70.45	563.60		
1 Gas Engine Vibrator		25.60		28.16	.23	.25
112 L.H., Daily Totals		\$5410.80		\$8216.96	\$48.31	\$73.37

Crew No.	Bare Costs		Incl.		Cost	
			Subs O&P	Per Labor-Hour	Bare Costs	Incl. O&P
<b>Crew C-14D</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Carpenter Foreman (outside)	\$52.70	\$421.60	\$80.25	\$642.00	\$50.22	\$76.39
18 Carpenters	50.70	7300.80	77.20	11116.80		
2 Rodmen (reinf.)	54.65	874.40	83.45	1335.20		
2 Laborers	39.85	637.60	60.70	971.20		
1 Cement Finisher	47.55	380.40	70.45	563.60		
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
1 Gas Engine Vibrator		25.60		28.16		
1 Concrete Pump (Small)		881.60		969.76	4.54	4.99
200 L.H., Daily Totals		\$10952.00		\$16275.12	\$54.76	\$81.38
<b>Crew C-14E</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Carpenter Foreman (outside)	\$52.70	\$421.60	\$80.25	\$642.00	\$49.07	\$74.64
2 Carpenters	50.70	811.20	77.20	1235.20		
4 Rodmen (reinf.)	54.65	1748.80	83.45	2670.40		
3 Laborers	39.85	956.40	60.70	1456.80		
1 Cement Finisher	47.55	380.40	70.45	563.60		
1 Gas Engine Vibrator		25.60		28.16	.29	.32
88 L.H., Daily Totals		\$4344.00		\$6596.16	\$49.36	\$74.96
<b>Crew C-14F</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$45.21	\$67.54
2 Laborers	39.85	637.60	60.70	971.20		
6 Cement Finishers	47.55	2282.40	70.45	3381.60		
1 Gas Engine Vibrator		25.60		28.16	.36	.39
72 L.H., Daily Totals		\$3280.40		\$4890.96	\$45.56	\$67.93
<b>Crew C-14G</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$44.54	\$66.71
2 Laborers	39.85	637.60	60.70	971.20		
4 Cement Finishers	47.55	1521.60	70.45	2254.40		
1 Gas Engine Vibrator		25.60		28.16	.46	.50
56 L.H., Daily Totals		\$2519.60		\$3763.76	\$44.99	\$67.21
<b>Crew C-14H</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Carpenter Foreman (outside)	\$52.70	\$421.60	\$80.25	\$642.00	\$49.36	\$74.88
2 Carpenters	50.70	811.20	77.20	1235.20		
1 Rodman (reinf.)	54.65	437.20	83.45	667.60		
1 Laborer	39.85	318.80	60.70	485.60		
1 Cement Finisher	47.55	380.40	70.45	563.60		
1 Gas Engine Vibrator		25.60		28.16	.53	.59
48 L.H., Daily Totals		\$2394.80		\$3622.16	\$49.89	\$75.46
<b>Crew C-14L</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Carpenter Foreman (outside)	\$52.70	\$421.60	\$80.25	\$642.00	\$46.99	\$71.39
6 Carpenters	50.70	2433.60	77.20	3705.60		
4 Laborers	39.85	1275.20	60.70	1942.40		
1 Cement Finisher	47.55	380.40	70.45	563.60		
1 Gas Engine Vibrator		25.60		28.16	.27	.29
96 L.H., Daily Totals		\$4536.40		\$6881.76	\$47.25	\$71.69
<b>Crew C-14M</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Carpenter Foreman (outside)	\$52.70	\$421.60	\$80.25	\$642.00	\$48.72	\$73.88
2 Carpenters	50.70	811.20	77.20	1235.20		
1 Rodman (reinf.)	54.65	437.20	83.45	667.60		
2 Laborers	39.85	637.60	60.70	971.20		
1 Cement Finisher	47.55	380.40	70.45	563.60		
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
1 Gas Engine Vibrator		25.60		28.16		
1 Concrete Pump (Small)		881.60		969.76	14.18	15.59
64 L.H., Daily Totals		\$4025.20		\$5725.92	\$62.89	\$89.47

# Crews - Standard

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew C-15</b>						
1 Carpenter Foreman (outside)	\$52.70	\$421.60	\$80.25	\$642.00	\$47.04	\$71.23
2 Carpenters	50.70	811.20	77.20	1235.20		
3 Laborers	39.85	956.40	60.70	1456.80		
2 Cement Finishers	47.55	760.80	70.45	1127.20		
1 Rodman (reinf.)	54.65	437.20	83.45	667.60		
72 L.H., Daily Totals		\$3387.20		\$5128.80	\$47.04	\$71.23
<b>Crew C-16</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$44.32	\$66.83
3 Laborers	39.85	956.40	60.70	1456.80		
2 Cement Finishers	47.55	760.80	70.45	1127.20		
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
1 Guniting Pump Rig		321.00		353.10		
2 -50' Air Hoses, 3/4"		14.70		16.17		
2 -50' Air Hoses, 2"		51.80		56.98	6.92	7.61
56 L.H., Daily Totals		\$2869.50		\$4168.65	\$51.24	\$74.44
<b>Crew C-16A</b>						
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$47.17	\$70.66
2 Cement Finishers	47.55	760.80	70.45	1127.20		
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
1 Guniting Pump Rig		321.00		353.10		
2 -50' Air Hoses, 3/4"		14.70		16.17		
2 -50' Air Hoses, 2"		51.80		56.98		
1 Telescoping Boom Lift, to 60'		454.60		500.06	26.32	28.95
32 L.H., Daily Totals		\$2351.70		\$3187.51	\$73.49	\$99.61
<b>Crew C-17</b>						
2 Skilled Worker Foremen (out)	\$54.35	\$869.60	\$83.20	\$1331.20	\$52.75	\$80.76
8 Skilled Workers	52.35	3350.40	80.15	5129.60		
80 L.H., Daily Totals		\$4220.00		\$6460.80	\$52.75	\$80.76
<b>Crew C-17A</b>						
2 Skilled Worker Foremen (out)	\$54.35	\$869.60	\$83.20	\$1331.20	\$52.79	\$80.81
8 Skilled Workers	52.35	3350.40	80.15	5129.60		
.125 Equip. Oper. (crane)	56.10	56.10	84.60	84.60		
.125 Hyd. Crane, 80 Ton		189.75		208.72	2.34	2.58
81 L.H., Daily Totals		\$4465.85		\$6754.13	\$55.13	\$83.38
<b>Crew C-17B</b>						
2 Skilled Worker Foremen (out)	\$54.35	\$869.60	\$83.20	\$1331.20	\$52.83	\$80.85
8 Skilled Workers	52.35	3350.40	80.15	5129.60		
.25 Equip. Oper. (crane)	56.10	112.20	84.60	169.20		
.25 Hyd. Crane, 80 Ton		379.50		417.45		
.25 Trowel, 48" Walk-Behind		10.30		11.33	4.75	5.23
82 L.H., Daily Totals		\$4722.00		\$7058.78	\$57.59	\$86.08
<b>Crew C-17C</b>						
2 Skilled Worker Foremen (out)	\$54.35	\$869.60	\$83.20	\$1331.20	\$52.87	\$80.90
8 Skilled Workers	52.35	3350.40	80.15	5129.60		
.375 Equip. Oper. (crane)	56.10	168.30	84.60	253.80		
.375 Hyd. Crane, 80 Ton		569.25		626.17	6.86	7.54
83 L.H., Daily Totals		\$4957.55		\$7340.77	\$59.73	\$88.44
<b>Crew C-17D</b>						
2 Skilled Worker Foremen (out)	\$54.35	\$869.60	\$83.20	\$1331.20	\$52.91	\$80.94
8 Skilled Workers	52.35	3350.40	80.15	5129.60		
.5 Equip. Oper. (crane)	56.10	224.40	84.60	338.40		
.5 Hyd. Crane, 80 Ton		759.00		834.90	9.04	9.94
84 L.H., Daily Totals		\$5203.40		\$7634.10	\$61.95	\$90.88

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew C-17E</b>						
2 Skilled Worker Foremen (out)	\$54.35	\$869.60	\$83.20	\$1331.20	\$52.75	\$80.76
8 Skilled Workers	52.35	3350.40	80.15	5129.60		
1 Hyd. Jack with Rods		102.25		112.47	1.28	1.41
80 L.H., Daily Totals		\$4322.25		\$6573.27	\$54.03	\$82.17
<b>Crew C-18</b>						
.125 Labor Foreman (outside)	\$41.85	\$41.85	\$63.75	\$63.75	\$40.07	\$61.04
1 Laborer	39.85	318.80	60.70	485.60		
1 Concrete Cart, 10 C.F.		57.80		63.58	6.42	7.06
9 L.H., Daily Totals		\$418.45		\$612.93	\$46.49	\$68.10
<b>Crew C-19</b>						
.125 Labor Foreman (outside)	\$41.85	\$41.85	\$63.75	\$63.75	\$40.07	\$61.04
1 Laborer	39.85	318.80	60.70	485.60		
1 Concrete Cart, 18 C.F.		97.40		107.14	10.82	11.90
9 L.H., Daily Totals		\$458.05		\$656.49	\$50.89	\$72.94
<b>Crew C-20</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$42.80	\$64.84
5 Laborers	39.85	1594.00	60.70	2428.00		
1 Cement Finisher	47.55	380.40	70.45	563.60		
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
2 Gas Engine Vibrators		51.20		56.32		
1 Concrete Pump (Small)		881.60		969.76	14.57	16.03
64 L.H., Daily Totals		\$3672.00		\$5176.08	\$57.38	\$80.88
<b>Crew C-21</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$42.80	\$64.84
5 Laborers	39.85	1594.00	60.70	2428.00		
1 Cement Finisher	47.55	380.40	70.45	563.60		
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
2 Gas Engine Vibrators		51.20		56.32		
1 Concrete Conveyer		187.20		205.92	3.73	4.10
64 L.H., Daily Totals		\$2977.60		\$4412.24	\$46.52	\$68.94
<b>Crew C-22</b>						
1 Rodman Foreman (outside)	\$56.65	\$453.20	\$86.50	\$692.00	\$54.92	\$83.82
4 Rodmen (reinf.)	54.65	1748.80	83.45	2670.40		
.125 Equip. Oper. (crane)	56.10	56.10	84.60	84.60		
.125 Equip. Oper. (oiler)	48.60	48.60	73.30	73.30		
.125 Hyd. Crane, 25 Ton		73.83		81.21	1.76	1.93
42 L.H., Daily Totals		\$2380.53		\$3601.51	\$56.68	\$85.75
<b>Crew C-23</b>						
2 Skilled Worker Foremen (out)	\$54.35	\$869.60	\$83.20	\$1331.20	\$52.75	\$80.52
6 Skilled Workers	52.35	2512.80	80.15	3847.20		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
1 Lattice Boom Crane, 90 Ton		1687.00		1855.70	21.09	23.20
80 L.H., Daily Totals		\$5907.00		\$8297.30	\$73.84	\$103.72
<b>Crew C-23A</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$45.25	\$68.61
2 Laborers	39.85	637.60	60.70	971.20		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
1 Crawler Crane, 100 Ton		1872.00		2059.20		
3 Conc. Buckets, 8 C.Y.		626.40		689.04	62.46	68.71
40 L.H., Daily Totals		\$4308.40		\$5492.64	\$107.71	\$137.32

# Crews - Standard

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew C-24</b>						
2 Skilled Worker Foremen (out)	\$54.35	\$869.60	\$83.20	\$1331.20	\$52.75	\$80.52
6 Skilled Workers	52.35	2512.80	80.15	3847.20		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
1 Lattice Boom Crane, 150 Ton		2017.00		2218.70	25.21	27.73
80 L.H., Daily Totals		\$6237.00		\$8660.30	\$77.96	\$108.25
<b>Crew C-25</b>						
2 Rodmen (reinf.)	\$54.65	\$874.40	\$83.45	\$1335.20	\$43.75	\$69.38
2 Rodmen Helpers	32.85	525.60	55.30	884.80		
32 L.H., Daily Totals		\$1400.00		\$2220.00	\$43.75	\$69.38
<b>Crew C-27</b>						
2 Cement Finishers	\$47.55	\$760.80	\$70.45	\$1127.20	\$47.55	\$70.45
1 Concrete Saw		102.40		112.64	6.40	7.04
16 L.H., Daily Totals		\$863.20		\$1239.84	\$53.95	\$77.49
<b>Crew C-28</b>						
1 Cement Finisher	\$47.55	\$380.40	\$70.45	\$563.60	\$47.55	\$70.45
1 Portable Air Compressor, Gas		17.10		18.81	2.14	2.35
8 L.H., Daily Totals		\$397.50		\$582.41	\$49.69	\$72.80
<b>Crew C-29</b>						
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$39.85	\$60.70
1 Pressure Washer		63.60		69.96	7.95	8.74
8 L.H., Daily Totals		\$382.40		\$555.56	\$47.80	\$69.44
<b>Crew C-30</b>						
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$39.85	\$60.70
1 Concrete Mixer, 10 C.F.		161.00		177.10	20.13	22.14
8 L.H., Daily Totals		\$479.80		\$662.70	\$59.98	\$82.84
<b>Crew C-31</b>						
1 Cement Finisher	\$47.55	\$380.40	\$70.45	\$563.60	\$47.55	\$70.45
1 Grout Pump		321.00		353.10	40.13	44.14
8 L.H., Daily Totals		\$701.40		\$916.70	\$87.67	\$114.59
<b>Crew C-32</b>						
1 Cement Finisher	\$47.55	\$380.40	\$70.45	\$563.60	\$43.70	\$65.58
1 Laborer	39.85	318.80	60.70	485.60		
1 Crack Chaser Saw, Gas, 6 H.P.		25.40		27.94		
1 Vacuum Pick-Up System		66.95		73.64	5.77	6.35
16 L.H., Daily Totals		\$791.55		\$1150.79	\$49.47	\$71.92
<b>Crew D-1</b>						
1 Bricklayer	\$50.30	\$402.40	\$77.00	\$616.00	\$44.80	\$68.58
1 Bricklayer Helper	39.30	314.40	60.15	481.20		
16 L.H., Daily Totals		\$716.80		\$1097.20	\$44.80	\$68.58
<b>Crew D-2</b>						
3 Bricklayers	\$50.30	\$1207.20	\$77.00	\$1848.00	\$46.34	\$70.89
2 Bricklayer Helpers	39.30	628.80	60.15	962.40		
.5 Carpenter	50.70	202.80	77.20	308.80		
44 L.H., Daily Totals		\$2038.80		\$3119.20	\$46.34	\$70.89

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew D-3</b>						
3 Bricklayers	\$50.30	\$1207.20	\$77.00	\$1848.00	\$46.13	\$70.59
2 Bricklayer Helpers	39.30	628.80	60.15	962.40		
.25 Carpenter	50.70	101.40	77.20	154.40		
42 L.H., Daily Totals		\$1937.40		\$2964.80	\$46.13	\$70.59
<b>Crew D-4</b>						
1 Bricklayer	\$50.30	\$402.40	\$77.00	\$616.00	\$45.05	\$68.66
2 Bricklayer Helpers	39.30	628.80	60.15	962.40		
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Grout Pump, 50 C.F./hr.		128.60		141.46	4.02	4.42
32 L.H., Daily Totals		\$1570.20		\$2338.66	\$49.07	\$73.08
<b>Crew D-5</b>						
1 Bricklayer	50.30	402.40	77.00	616.00	50.30	77.00
8 L.H., Daily Totals		\$402.40		\$616.00	\$50.30	\$77.00
<b>Crew D-6</b>						
3 Bricklayers	\$50.30	\$1207.20	\$77.00	\$1848.00	\$45.04	\$68.92
3 Bricklayer Helpers	39.30	943.20	60.15	1443.60		
.25 Carpenter	50.70	101.40	77.20	154.40		
50 L.H., Daily Totals		\$2251.80		\$3446.00	\$45.04	\$68.92
<b>Crew D-7</b>						
1 Tile Layer	\$46.85	\$374.80	\$69.35	\$554.80	\$42.02	\$62.20
1 Tile Layer Helper	37.20	297.60	55.05	440.40		
16 L.H., Daily Totals		\$672.40		\$995.20	\$42.02	\$62.20
<b>Crew D-8</b>						
3 Bricklayers	\$50.30	\$1207.20	\$77.00	\$1848.00	\$45.90	\$70.26
2 Bricklayer Helpers	39.30	628.80	60.15	962.40		
40 L.H., Daily Totals		\$1836.00		\$2810.40	\$45.90	\$70.26
<b>Crew D-9</b>						
3 Bricklayers	\$50.30	\$1207.20	\$77.00	\$1848.00	\$44.80	\$68.58
3 Bricklayer Helpers	39.30	943.20	60.15	1443.60		
48 L.H., Daily Totals		\$2150.40		\$3291.60	\$44.80	\$68.58
<b>Crew D-10</b>						
1 Bricklayer Foreman (outside)	\$52.30	\$418.40	\$80.05	\$640.40	\$49.50	\$75.45
1 Bricklayer	50.30	402.40	77.00	616.00		
1 Bricklayer Helper	39.30	314.40	60.15	481.20		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 S.P. Crane, 4x4, 12 Ton		363.60		399.96	11.36	12.50
32 L.H., Daily Totals		\$1947.60		\$2814.36	\$60.86	\$87.95
<b>Crew D-11</b>						
1 Bricklayer Foreman (outside)	\$52.30	\$418.40	\$80.05	\$640.40	\$47.30	\$72.40
1 Bricklayer	50.30	402.40	77.00	616.00		
1 Bricklayer Helper	39.30	314.40	60.15	481.20		
24 L.H., Daily Totals		\$1135.20		\$1737.60	\$47.30	\$72.40
<b>Crew D-12</b>						
1 Bricklayer Foreman (outside)	\$52.30	\$418.40	\$80.05	\$640.40	\$45.30	\$69.34
1 Bricklayer	50.30	402.40	77.00	616.00		
2 Bricklayer Helpers	39.30	628.80	60.15	962.40		
32 L.H., Daily Totals		\$1449.60		\$2218.80	\$45.30	\$69.34

# Crews - Standard

Crew No.	Bare Costs		Incl.		Cost	
			Subs O&P	Per Labor-Hour	Bare Costs	Incl. O&P
<b>Crew D-13</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Bricklayer Foreman (outside)	\$52.30	\$418.40	\$80.05	\$640.40	\$48.00	\$73.19
1 Bricklayer	50.30	402.40	77.00	616.00		
2 Bricklayer Helpers	39.30	628.80	60.15	962.40		
1 Carpenter	50.70	405.60	77.20	617.60		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 S.P. Crane, 4x4, 12 Ton		363.60		399.96	7.58	8.33
48 L.H., Daily Totals		\$2667.60		\$3913.16	\$55.58	\$81.52
<b>Crew D-14</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
3 Bricklayers	\$50.30	\$1207.20	\$77.00	\$1848.00	\$47.55	\$72.79
1 Bricklayer Helper	39.30	314.40	60.15	481.20		
32 L.H., Daily Totals		\$1521.60		\$2329.20	\$47.55	\$72.79
<b>Crew E-1</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Welder Foreman (outside)	\$56.65	\$453.20	\$92.60	\$740.80	\$54.20	\$86.43
1 Welder	54.65	437.20	89.35	714.80		
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Welder, Gas Engine, 300 amp		98.40		108.24	4.10	4.51
24 L.H., Daily Totals		\$1399.20		\$2182.64	\$58.30	\$90.94
<b>Crew E-2</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Struc. Steel Foreman (outside)	\$56.65	\$453.20	\$92.60	\$740.80	\$54.28	\$86.84
4 Struc. Steel Workers	54.65	1748.80	89.35	2859.20		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
1 Lattice Boom Crane, 90 Ton		1687.00		1855.70	30.13	33.14
56 L.H., Daily Totals		\$4726.60		\$6718.90	\$84.40	\$119.98
<b>Crew E-3</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Struc. Steel Foreman (outside)	\$56.65	\$453.20	\$92.60	\$740.80	\$55.32	\$90.43
1 Struc. Steel Worker	54.65	437.20	89.35	714.80		
1 Welder	54.65	437.20	89.35	714.80		
1 Welder, Gas Engine, 300 amp		98.40		108.24	4.10	4.51
24 L.H., Daily Totals		\$1426.00		\$2278.64	\$59.42	\$94.94
<b>Crew E-3A</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Struc. Steel Foreman (outside)	\$56.65	\$453.20	\$92.60	\$740.80	\$55.32	\$90.43
1 Struc. Steel Worker	54.65	437.20	89.35	714.80		
1 Welder	54.65	437.20	89.35	714.80		
1 Welder, Gas Engine, 300 amp		98.40		108.24	15.88	17.47
1 Telescoping Boom Lift, to 40'		282.80		311.08		
24 L.H., Daily Totals		\$1708.80		\$2589.72	\$71.20	\$107.91
<b>Crew E-4</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Struc. Steel Foreman (outside)	\$56.65	\$453.20	\$92.60	\$740.80	\$55.15	\$90.16
3 Struc. Steel Workers	54.65	1311.60	89.35	2144.40		
1 Welder, Gas Engine, 300 amp		98.40		108.24	3.08	3.38
32 L.H., Daily Totals		\$1863.20		\$2993.44	\$58.23	\$93.55
<b>Crew E-5</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
2 Struc. Steel Foremen (outside)	\$56.65	\$906.40	\$92.60	\$1481.60	\$54.59	\$87.92
5 Struc. Steel Workers	54.65	2186.00	89.35	3574.00		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Welder	54.65	437.20	89.35	714.80		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
1 Lattice Boom Crane, 90 Ton		1687.00		1855.70		
1 Welder, Gas Engine, 300 amp		98.40		108.24	22.32	24.55
80 L.H., Daily Totals		\$6152.60		\$8997.54	\$76.91	\$112.47

Crew No.	Bare Costs		Incl.		Cost	
			Subs O&P	Per Labor-Hour	Bare Costs	Incl. O&P
<b>Crew E-6</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
3 Struc. Steel Foremen (outside)	\$56.65	\$1359.60	\$92.60	\$2222.40	\$54.53	\$87.91
9 Struc. Steel Workers	54.65	3934.80	89.35	6433.20		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Welder	54.65	437.20	89.35	714.80		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Lattice Boom Crane, 90 Ton		1687.00		1855.70		
1 Welder, Gas Engine, 300 amp		98.40		108.24		
1 Air Compressor, 160 cfm		117.20		128.92		
2 Impact Wrenches		37.20		40.92	15.15	16.67
128 L.H., Daily Totals		\$8919.40		\$13386.18	\$69.68	\$104.58
<b>Crew E-7</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Struc. Steel Foreman (outside)	\$56.65	\$453.20	\$92.60	\$740.80	\$54.59	\$87.92
4 Struc. Steel Workers	54.65	1748.80	89.35	2859.20		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
1 Welder Foreman (outside)	56.65	453.20	92.60	740.80		
2 Welders	54.65	874.40	89.35	1429.60		
1 Lattice Boom Crane, 90 Ton		1687.00		1855.70		
2 Welders, Gas Engine, 300 amp		196.80		216.48	23.55	25.90
80 L.H., Daily Totals		\$6251.00		\$9105.78	\$78.14	\$113.82
<b>Crew E-8</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Struc. Steel Foreman (outside)	\$56.65	\$453.20	\$92.60	\$740.80	\$54.35	\$87.33
4 Struc. Steel Workers	54.65	1748.80	89.35	2859.20		
1 Welder Foreman (outside)	56.65	453.20	92.60	740.80		
4 Welders	54.65	1748.80	89.35	2859.20		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Lattice Boom Crane, 90 Ton		1687.00		1855.70		
4 Welders, Gas Engine, 300 amp		393.60		432.96	20.01	22.01
104 L.H., Daily Totals		\$7732.60		\$11370.66	\$74.35	\$109.33
<b>Crew E-9</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
2 Struc. Steel Foremen (outside)	\$56.65	\$906.40	\$92.60	\$1481.60	\$54.53	\$87.91
5 Struc. Steel Workers	54.65	2186.00	89.35	3574.00		
1 Welder Foreman (outside)	56.65	453.20	92.60	740.80		
5 Welders	54.65	2186.00	89.35	3574.00		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Lattice Boom Crane, 90 Ton		1687.00		1855.70		
5 Welders, Gas Engine, 300 amp		492.00		541.20	17.02	18.73
128 L.H., Daily Totals		\$9158.60		\$13649.30	\$71.55	\$106.64
<b>Crew E-10</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Welder Foreman (outside)	\$56.65	\$453.20	\$92.60	\$740.80	\$55.65	\$90.97
1 Welder	54.65	437.20	89.35	714.80		
1 Welder, Gas Engine, 300 amp		98.40		108.24		
1 Flatbed Truck, Gas, 3 Ton		238.00		261.80	21.02	23.13
16 L.H., Daily Totals		\$1226.80		\$1825.64	\$76.67	\$114.10
<b>Crew E-11</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
2 Painters, Struc. Steel	\$43.50	\$696.00	\$72.45	\$1159.20	\$44.54	\$70.74
1 Building Laborer	39.85	318.80	60.70	485.60		
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Air Compressor, 250 cfm		167.40		184.14		
1 Sandblaster, Portable, 3 C.F.		21.00		23.10		
1 Set Sand Blasting Accessories		14.70		16.17	6.35	6.98
32 L.H., Daily Totals		\$1628.30		\$2487.01	\$50.88	\$77.72

# Crews - Standard

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew E-11A</b>						
2 Painters, Struc. Steel	\$43.50	\$696.00	\$72.45	\$1159.20	\$44.54	\$70.74
1 Building Laborer	39.85	318.80	60.70	485.60		
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Air Compressor, 250 cfm		167.40		184.14		
1 Sandblaster, Portable, 3 C.F.		21.00		23.10		
1 Set Sand Blasting Accessories		14.70		16.17		
1 Telescoping Boom Lift, to 60'		454.60		500.06	20.55	22.61
32 L.H., Daily Totals		\$2082.90		\$2987.07	\$65.09	\$93.35
<b>Crew E-11B</b>						
2 Painters, Struc. Steel	\$43.50	\$696.00	\$72.45	\$1159.20	\$42.28	\$68.53
1 Building Laborer	39.85	318.80	60.70	485.60		
2 Paint Sprayer, 8 C.F.M.		90.20		99.22		
1 Telescoping Boom Lift, to 60'		454.60		500.06	22.70	24.97
24 L.H., Daily Totals		\$1559.60		\$2244.08	\$64.98	\$93.50
<b>Crew E-12</b>						
1 Welder Foreman (outside)	\$56.65	\$453.20	\$92.60	\$740.80	\$53.98	\$84.97
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Welder, Gas Engine, 300 amp		98.40		108.24	6.15	6.76
16 L.H., Daily Totals		\$962.00		\$1467.84	\$60.13	\$91.74
<b>Crew E-13</b>						
1 Welder Foreman (outside)	\$56.65	\$453.20	\$92.60	\$740.80	\$54.87	\$87.52
.5 Equip. Oper. (light)	51.30	205.20	77.35	309.40		
1 Welder, Gas Engine, 300 amp		98.40		108.24	8.20	9.02
12 L.H., Daily Totals		\$756.80		\$1158.44	\$63.07	\$96.54
<b>Crew E-14</b>						
1 Welder Foreman (outside)	\$56.65	\$453.20	\$92.60	\$740.80	\$56.65	\$92.60
1 Welder, Gas Engine, 300 amp		98.40		108.24	12.30	13.53
8 L.H., Daily Totals		\$551.60		\$849.04	\$68.95	\$106.13
<b>Crew E-16</b>						
1 Welder Foreman (outside)	\$56.65	\$453.20	\$92.60	\$740.80	\$55.65	\$90.97
1 Welder	54.65	437.20	89.35	714.80		
1 Welder, Gas Engine, 300 amp		98.40		108.24	6.15	6.76
16 L.H., Daily Totals		\$988.80		\$1563.84	\$61.80	\$97.74
<b>Crew E-17</b>						
1 Struc. Steel Foreman (outside)	\$56.65	\$453.20	\$92.60	\$740.80	\$55.65	\$90.97
1 Structural Steel Worker	54.65	437.20	89.35	714.80		
16 L.H., Daily Totals		\$890.40		\$1455.60	\$55.65	\$90.97
<b>Crew E-18</b>						
1 Struc. Steel Foreman (outside)	\$56.65	\$453.20	\$92.60	\$740.80	\$54.87	\$88.34
3 Structural Steel Workers	54.65	1311.60	89.35	2144.40		
1 Equipment Operator (med.)	53.75	430.00	81.05	648.40		
1 Lattice Boom Crane, 20 Ton		1083.00		1191.30	27.07	29.78
40 L.H., Daily Totals		\$3277.80		\$4724.90	\$81.94	\$118.12
<b>Crew E-19</b>						
1 Struc. Steel Foreman (outside)	\$56.65	\$453.20	\$92.60	\$740.80	\$54.20	\$86.43
1 Structural Steel Worker	54.65	437.20	89.35	714.80		
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Lattice Boom Crane, 20 Ton		1083.00		1191.30	45.13	49.64
24 L.H., Daily Totals		\$2383.80		\$3265.70	\$99.33	\$136.07

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew E-20</b>						
1 Struc. Steel Foreman (outside)	\$56.65	\$453.20	\$92.60	\$740.80	\$54.33	\$87.16
5 Structural Steel Workers	54.65	2186.00	89.35	3574.00		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
1 Lattice Boom Crane, 40 Ton		1321.00		1453.10	20.64	22.70
64 L.H., Daily Totals		\$4797.80		\$7031.10	\$74.97	\$109.86
<b>Crew E-22</b>						
1 Skilled Worker Foreman (out)	\$54.35	\$434.80	\$83.20	\$665.60	\$53.02	\$81.17
2 Skilled Workers	52.35	837.60	80.15	1282.40		
24 L.H., Daily Totals		\$1272.40		\$1948.00	\$53.02	\$81.17
<b>Crew E-24</b>						
3 Structural Steel Workers	\$54.65	\$1311.60	\$89.35	\$2144.40	\$54.42	\$87.28
1 Equipment Operator (med.)	53.75	430.00	81.05	648.40		
1 Hyd. Crane, 25 Ton		590.60		649.66	18.46	20.30
32 L.H., Daily Totals		\$2332.20		\$3442.46	\$72.88	\$107.58
<b>Crew E-25</b>						
1 Welder Foreman (outside)	\$56.65	\$453.20	\$92.60	\$740.80	\$56.65	\$92.60
1 Cutting Torch		12.60		13.86	1.58	1.73
8 L.H., Daily Totals		\$465.80		\$754.66	\$58.23	\$94.33
<b>Crew E-26</b>						
1 Struc. Steel Foreman (outside)	\$56.65	\$453.20	\$92.60	\$740.80	\$56.01	\$90.41
1 Struc. Steel Worker	54.65	437.20	89.35	714.80		
1 Welder	54.65	437.20	89.35	714.80		
.25 Electrician	58.20	116.40	87.00	174.00		
.25 Plumber	62.15	124.30	93.60	187.20		
1 Welder, Gas Engine, 300 amp		98.40		108.24	3.51	3.87
28 L.H., Daily Totals		\$1666.70		\$2639.84	\$59.52	\$94.28
<b>Crew E-27</b>						
1 Struc. Steel Foreman (outside)	\$56.65	\$453.20	\$92.60	\$740.80	\$54.33	\$87.16
5 Struc. Steel Workers	54.65	2186.00	89.35	3574.00		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
1 Hyd. Crane, 12 Ton		496.00		545.60		
1 Hyd. Crane, 80 Ton		1518.00		1669.80	31.47	34.62
64 L.H., Daily Totals		\$5490.80		\$7793.40	\$85.79	\$121.77
<b>Crew F-3</b>						
4 Carpenters	\$50.70	\$1622.40	\$77.20	\$2470.40	\$51.78	\$78.68
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Hyd. Crane, 12 Ton		496.00		545.60	12.40	13.64
40 L.H., Daily Totals		\$2567.20		\$3692.80	\$64.18	\$92.32
<b>Crew F-4</b>						
4 Carpenters	\$50.70	\$1622.40	\$77.20	\$2470.40	\$51.25	\$77.78
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
1 Hyd. Crane, 55 Ton		993.80		1093.18	20.70	22.77
48 L.H., Daily Totals		\$3453.80		\$4826.78	\$71.95	\$100.56
<b>Crew F-5</b>						
1 Carpenter Foreman (outside)	\$52.70	\$421.60	\$80.25	\$642.00	\$51.20	\$77.96
3 Carpenters	50.70	1216.80	77.20	1852.80		
32 L.H., Daily Totals		\$1638.40		\$2494.80	\$51.20	\$77.96

# Crews - Standard

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew F-6</b>						
2 Carpenters	\$50.70	\$811.20	\$77.20	\$1235.20	\$47.44	\$72.08
2 Building Laborers	39.85	637.60	60.70	971.20		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Hyd. Crane, 12 Ton		496.00		545.60	12.40	13.64
40 L.H., Daily Totals		\$2393.60		\$3428.80	\$59.84	\$85.72
<b>Crew F-7</b>						
2 Carpenters	\$50.70	\$811.20	\$77.20	\$1235.20	\$45.27	\$68.95
2 Building Laborers	39.85	637.60	60.70	971.20		
32 L.H., Daily Totals		\$1448.80		\$2206.40	\$45.27	\$68.95
<b>Crew G-1</b>						
1 Roofer Foreman (outside)	\$45.95	\$367.60	\$77.35	\$618.80	\$41.06	\$69.11
4 Roofers Composition	43.95	1406.40	73.95	2366.40		
2 Roofer Helpers	32.85	525.60	55.30	884.80		
1 Application Equipment		181.00		199.10		
1 Tar Kettle/Pot		167.20		183.92		
1 Crew Truck		166.00		182.60	9.18	10.10
56 L.H., Daily Totals		\$2813.80		\$4435.62	\$50.25	\$79.21
<b>Crew G-2</b>						
1 Plasterer	\$46.45	\$371.60	\$69.70	\$557.60	\$42.02	\$63.35
1 Plasterer Helper	39.75	318.00	59.65	477.20		
1 Building Laborer	39.85	318.80	60.70	485.60		
1 Grout Pump, 50 C.F./hr.		128.60		141.46	5.36	5.89
24 L.H., Daily Totals		\$1137.00		\$1661.86	\$47.38	\$69.24
<b>Crew G-2A</b>						
1 Roofer Composition	\$43.95	\$351.60	\$73.95	\$591.60	\$38.88	\$63.32
1 Roofer Helper	32.85	262.80	55.30	442.40		
1 Building Laborer	39.85	318.80	60.70	485.60		
1 Foam Spray Rig, Trailer-Mtd.		499.25		549.17		
1 Pickup Truck, 3/4 Ton		115.20		126.72	25.60	28.16
24 L.H., Daily Totals		\$1547.65		\$2195.49	\$64.49	\$91.48
<b>Crew G-3</b>						
2 Sheet Metal Workers	\$59.80	\$956.80	\$91.25	\$1460.00	\$49.83	\$75.97
2 Building Laborers	39.85	637.60	60.70	971.20		
32 L.H., Daily Totals		\$1594.40		\$2431.20	\$49.83	\$75.97
<b>Crew G-4</b>						
1 Labor Foreman (outside)	\$41.85	\$334.80	\$63.75	\$510.00	\$40.52	\$61.72
2 Building Laborers	39.85	637.60	60.70	971.20		
1 Flatbed Truck, Gas, 1.5 Ton		188.40		207.24		
1 Air Compressor, 160 cfm		117.20		128.92	12.73	14.01
24 L.H., Daily Totals		\$1278.00		\$1817.36	\$53.25	\$75.72
<b>Crew G-5</b>						
1 Roofer Foreman (outside)	\$45.95	\$367.60	\$77.35	\$618.80	\$39.91	\$67.17
2 Roofers Composition	43.95	703.20	73.95	1183.20		
2 Roofer Helpers	32.85	525.60	55.30	884.80		
1 Application Equipment		181.00		199.10	4.53	4.98
40 L.H., Daily Totals		\$1777.40		\$2885.90	\$44.44	\$72.15
<b>Crew G-6A</b>						
2 Roofers Composition	\$43.95	\$703.20	\$73.95	\$1183.20	\$43.95	\$73.95
1 Small Compressor, Electric		15.10		16.61		
2 Pneumatic Nailers		46.10		50.71	3.83	4.21
16 L.H., Daily Totals		\$764.40		\$1250.52	\$47.77	\$78.16

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew G-7</b>						
1 Carpenter	\$50.70	\$405.60	\$77.20	\$617.60	\$50.70	\$77.20
1 Small Compressor, Electric		15.10		16.61		
1 Pneumatic Nailer		23.05		25.36	4.77	5.25
8 L.H., Daily Totals		\$443.75		\$659.57	\$55.47	\$82.45
<b>Crew H-1</b>						
2 Glaziers	\$48.50	\$776.00	\$73.45	\$1175.20	\$51.58	\$81.40
2 Struc. Steel Workers	54.65	874.40	89.35	1429.60		
32 L.H., Daily Totals		\$1650.40		\$2604.80	\$51.58	\$81.40
<b>Crew H-2</b>						
2 Glaziers	\$48.50	\$776.00	\$73.45	\$1175.20	\$45.62	\$69.20
1 Building Laborer	39.85	318.80	60.70	485.60		
24 L.H., Daily Totals		\$1094.80		\$1660.80	\$45.62	\$69.20
<b>Crew H-3</b>						
1 Glazier	\$48.50	\$388.00	\$73.45	\$587.60	\$43.15	\$65.90
1 Helper	37.80	302.40	58.35	466.80		
16 L.H., Daily Totals		\$690.40		\$1054.40	\$43.15	\$65.90
<b>Crew H-4</b>						
1 Carpenter	\$50.70	\$405.60	\$77.20	\$617.60	\$47.04	\$71.62
1 Carpenter Helper	37.80	302.40	58.35	466.80		
.5 Electrician	58.20	232.80	87.00	348.00		
20 L.H., Daily Totals		\$940.80		\$1432.40	\$47.04	\$71.62
<b>Crew J-1</b>						
3 Plasterers	\$46.45	\$1114.80	\$69.70	\$1672.80	\$43.77	\$65.68
2 Plasterer Helpers	39.75	636.00	59.65	954.40		
1 Mixing Machine, 6 C.F.		133.20		146.52	3.33	3.66
40 L.H., Daily Totals		\$1884.00		\$2773.72	\$47.10	\$69.34
<b>Crew J-2</b>						
3 Plasterers	\$46.45	\$1114.80	\$69.70	\$1672.80	\$44.67	\$66.84
2 Plasterer Helpers	39.75	636.00	59.65	954.40		
1 Lather	49.15	393.20	72.65	581.20		
1 Mixing Machine, 6 C.F.		133.20		146.52	2.77	3.05
48 L.H., Daily Totals		\$2277.20		\$3354.92	\$47.44	\$69.89
<b>Crew J-3</b>						
1 Terrazzo Worker	\$47.00	\$376.00	\$69.55	\$556.40	\$43.05	\$63.70
1 Terrazzo Helper	39.10	312.80	57.85	462.80		
1 Floor Grinder, 22" Path		133.60		146.96		
1 Terrazzo Mixer		177.80		195.58	19.46	21.41
16 L.H., Daily Totals		\$1000.20		\$1361.74	\$62.51	\$85.11
<b>Crew J-4</b>						
2 Cement Finishers	\$47.55	\$760.80	\$70.45	\$1127.20	\$44.98	\$67.20
1 Laborer	39.85	318.80	60.70	485.60		
1 Floor Grinder, 22" Path		133.60		146.96		
1 Floor Edger, 7" Path		42.95		47.24		
1 Vacuum Pick-Up System		66.95		73.64	10.15	11.16
24 L.H., Daily Totals		\$1323.10		\$1880.65	\$55.13	\$78.36

# Crews - Standard

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew J-4A</b>						
2 Cement Finishers	\$47.55	\$760.80	\$70.45	\$1127.20	\$43.70	\$65.58
2 Laborers	39.85	637.60	60.70	971.20		
1 Floor Grinder, 22" Path		133.60		146.96		
1 Floor Edger, 7" Path		42.95		47.24		
1 Vacuum Pick-Up System		66.95		73.64		
1 Floor Auto Scrubber		254.30		279.73	15.56	17.11
32 L.H., Daily Totals		\$1896.20		\$2645.98	\$59.26	\$82.69
<b>Crew J-4B</b>						
1 Laborer	\$39.85	\$318.80	\$60.70	\$485.60	\$39.85	\$60.70
1 Floor Auto Scrubber		254.30		279.73	31.79	34.97
8 L.H., Daily Totals		\$573.10		\$765.33	\$71.64	\$95.67
<b>Crew J-6</b>						
2 Painters	\$42.55	\$680.80	\$64.05	\$1024.80	\$44.06	\$66.54
1 Building Laborer	39.85	318.80	60.70	485.60		
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Air Compressor, 250 cfm		167.40		184.14		
1 Sandblaster, Portable, 3 C.F.		21.00		23.10		
1 Set Sand Blasting Accessories		14.70		16.17	6.35	6.98
32 L.H., Daily Totals		\$1613.10		\$2352.61	\$50.41	\$73.52
<b>Crew J-7</b>						
2 Painters	\$42.55	\$680.80	\$64.05	\$1024.80	\$42.55	\$64.05
1 Floor Belt Sander		16.75		18.43		
1 Floor Sanding Edger		13.15		14.47	1.87	2.06
16 L.H., Daily Totals		\$710.70		\$1057.69	\$44.42	\$66.11
<b>Crew K-1</b>						
1 Carpenter	\$50.70	\$405.60	\$77.20	\$617.60	\$47.60	\$72.10
1 Truck Driver (light)	44.50	356.00	67.00	536.00		
1 Flatbed Truck, Gas, 3 Ton		238.00		261.80	14.88	16.36
16 L.H., Daily Totals		\$999.60		\$1415.40	\$62.48	\$88.46
<b>Crew K-2</b>						
1 Struc. Steel Foreman (outside)	\$56.65	\$453.20	\$92.60	\$740.80	\$51.93	\$82.98
1 Struc. Steel Worker	54.65	437.20	89.35	714.80		
1 Truck Driver (light)	44.50	356.00	67.00	536.00		
1 Flatbed Truck, Gas, 3 Ton		238.00		261.80	9.92	10.91
24 L.H., Daily Totals		\$1484.40		\$2253.40	\$61.85	\$93.89
<b>Crew L-1</b>						
1 Electrician	\$58.20	\$465.60	\$87.00	\$696.00	\$60.17	\$90.30
1 Plumber	62.15	497.20	93.60	748.80		
16 L.H., Daily Totals		\$962.80		\$1444.80	\$60.17	\$90.30
<b>Crew L-2</b>						
1 Carpenter	\$50.70	\$405.60	\$77.20	\$617.60	\$44.25	\$67.78
1 Carpenter Helper	37.80	302.40	58.35	466.80		
16 L.H., Daily Totals		\$708.00		\$1084.40	\$44.25	\$67.78
<b>Crew L-3</b>						
1 Carpenter	\$50.70	\$405.60	\$77.20	\$617.60	\$54.85	\$83.16
.5 Electrician	58.20	232.80	87.00	348.00		
.5 Sheet Metal Worker	59.80	239.20	91.25	365.00		
16 L.H., Daily Totals		\$877.60		\$1330.60	\$54.85	\$83.16

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew L-3A</b>						
1 Carpenter Foreman (outside)	\$52.70	\$421.60	\$80.25	\$642.00	\$55.07	\$83.92
.5 Sheet Metal Worker	59.80	239.20	91.25	365.00		
12 L.H., Daily Totals		\$660.80		\$1007.00	\$55.07	\$83.92
<b>Crew L-4</b>						
2 Skilled Workers	\$52.35	\$837.60	\$80.15	\$1282.40	\$47.50	\$72.88
1 Helper	37.80	302.40	58.35	466.80		
24 L.H., Daily Totals		\$1140.00		\$1749.20	\$47.50	\$72.88
<b>Crew L-5</b>						
1 Struc. Steel Foreman (outside)	\$56.65	\$453.20	\$92.60	\$740.80	\$55.14	\$89.14
5 Struc. Steel Workers	54.65	2186.00	89.35	3574.00		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Hyd. Crane, 25 Ton		590.60		649.66	10.55	11.60
56 L.H., Daily Totals		\$3678.60		\$5641.26	\$65.69	\$100.74
<b>Crew L-5A</b>						
1 Struc. Steel Foreman (outside)	\$56.65	\$453.20	\$92.60	\$740.80	\$55.51	\$88.97
2 Structural Steel Workers	54.65	874.40	89.35	1429.60		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 S.P. Crane, 4x4, 25 Ton		668.40		735.24	20.89	22.98
32 L.H., Daily Totals		\$2444.80		\$3582.44	\$76.40	\$111.95
<b>Crew L-5B</b>						
1 Struc. Steel Foreman (outside)	\$56.65	\$453.20	\$92.60	\$740.80	\$57.01	\$88.11
2 Structural Steel Workers	54.65	874.40	89.35	1429.60		
2 Electricians	58.20	931.20	87.00	1392.00		
2 Steamfitters/Pipefitters	63.00	1008.00	94.90	1518.40		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Equip. Oper. (oiler)	48.60	388.80	73.30	586.40		
1 Hyd. Crane, 80 Ton		1518.00		1669.80	21.08	23.19
72 L.H., Daily Totals		\$5622.40		\$8013.80	\$78.09	\$111.30
<b>Crew L-6</b>						
1 Plumber	\$62.15	\$497.20	\$93.60	\$748.80	\$60.83	\$91.40
.5 Electrician	58.20	232.80	87.00	348.00		
12 L.H., Daily Totals		\$730.00		\$1096.80	\$60.83	\$91.40
<b>Crew L-7</b>						
2 Carpenters	\$50.70	\$811.20	\$77.20	\$1235.20	\$48.67	\$73.89
1 Building Laborer	39.85	318.80	60.70	485.60		
.5 Electrician	58.20	232.80	87.00	348.00		
28 L.H., Daily Totals		\$1362.80		\$2068.80	\$48.67	\$73.89
<b>Crew L-8</b>						
2 Carpenters	\$50.70	\$811.20	\$77.20	\$1235.20	\$52.99	\$80.48
.5 Plumber	62.15	248.60	93.60	374.40		
20 L.H., Daily Totals		\$1059.80		\$1609.60	\$52.99	\$80.48
<b>Crew L-9</b>						
1 Labor Foreman (inside)	\$40.35	\$322.80	\$61.45	\$491.60	\$45.29	\$70.16
2 Building Laborers	39.85	637.60	60.70	971.20		
1 Struc. Steel Worker	54.65	437.20	89.35	714.80		
.5 Electrician	58.20	232.80	87.00	348.00		
36 L.H., Daily Totals		\$1630.40		\$2525.60	\$45.29	\$70.16

# Crews - Standard

Crew No.	Bare Costs		Incl.		Cost	
			Subs O&P	Per Labor-Hour	Bare Costs	Incl. O&P
<b>Crew L-10</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Struct. Steel Foreman (outside)	\$56.65	\$453.20	\$92.60	\$740.80	\$55.80	\$88.85
1 Structural Steel Worker	54.65	437.20	89.35	714.80		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Hyd. Crane, 12 Ton		496.00		545.60	20.67	22.73
24 L.H., Daily Totals		\$1835.20		\$2678.00	\$76.47	\$111.58
<b>Crew L-11</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
2 Wreckers	\$39.85	\$637.60	\$62.70	\$1003.20	\$46.77	\$71.84
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Hyd. Excavator, 2.5 C.Y.		1411.00		1552.10		
1 Loader, Skid Steer, 78 H.P.		364.80		401.28	55.49	61.04
32 L.H., Daily Totals		\$3272.60		\$4252.18	\$102.27	\$132.88
<b>Crew M-1</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
3 Elevator Constructors	\$82.20	\$1972.80	\$122.50	\$2940.00	\$78.09	\$116.36
1 Elevator Apprentice	65.75	526.00	97.95	783.60		
5 Hand Tools		50.00		55.00	1.56	1.72
32 L.H., Daily Totals		\$2548.80		\$3778.60	\$79.65	\$118.08
<b>Crew M-3</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Electrician Foreman (outside)	\$60.20	\$481.60	\$90.00	\$720.00	\$61.51	\$92.10
1 Common Laborer	39.85	318.80	60.70	485.60		
.25 Equipment Operator (med.)	53.75	107.50	81.05	162.10		
1 Elevator Constructor	82.20	657.60	122.50	980.00		
1 Elevator Apprentice	65.75	526.00	97.95	783.60		
.25 S.P. Crane, 4x4, 20 Ton		142.80		157.08	4.20	4.62
34 L.H., Daily Totals		\$2234.30		\$3288.38	\$65.71	\$96.72
<b>Crew M-4</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Electrician Foreman (outside)	\$60.20	\$481.60	\$90.00	\$720.00	\$60.93	\$91.25
1 Common Laborer	39.85	318.80	60.70	485.60		
.25 Equipment Operator, Crane	56.10	112.20	84.60	169.20		
.25 Equip. Oper. (oiler)	48.60	97.20	73.30	146.60		
1 Elevator Constructor	82.20	657.60	122.50	980.00		
1 Elevator Apprentice	65.75	526.00	97.95	783.60		
.25 S.P. Crane, 4x4, 40 Ton		183.70		202.07	5.10	5.61
36 L.H., Daily Totals		\$2377.10		\$3487.07	\$66.03	\$96.86
<b>Crew Q-1</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Plumber	\$62.15	\$497.20	\$93.60	\$748.80	\$55.92	\$84.22
1 Plumber Apprentice	49.70	397.60	74.85	598.80		
16 L.H., Daily Totals		\$894.80		\$1347.60	\$55.92	\$84.22
<b>Crew Q-1A</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
.25 Plumber Foreman (outside)	\$64.15	\$128.30	\$96.60	\$193.20	\$62.55	\$94.20
1 Plumber	62.15	497.20	93.60	748.80		
10 L.H., Daily Totals		\$625.50		\$942.00	\$62.55	\$94.20
<b>Crew Q-1C</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Plumber	\$62.15	\$497.20	\$93.60	\$748.80	\$55.20	\$83.17
1 Plumber Apprentice	49.70	397.60	74.85	598.80		
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
1 Trencher, Chain Type, 8' D		2048.00		2252.80	85.33	93.87
24 L.H., Daily Totals		\$3372.80		\$4248.80	\$140.53	\$177.03
<b>Crew Q-2</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
2 Plumbers	\$62.15	\$994.40	\$93.60	\$1497.60	\$58.00	\$87.35
1 Plumber Apprentice	49.70	397.60	74.85	598.80		
24 L.H., Daily Totals		\$1392.00		\$2096.40	\$58.00	\$87.35

Crew No.	Bare Costs		Incl.		Cost	
			Subs O&P	Per Labor-Hour	Bare Costs	Incl. O&P
<b>Crew Q-3</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Plumber Foreman (inside)	\$62.65	\$501.20	\$94.35	\$754.80	\$59.16	\$89.10
2 Plumbers	62.15	994.40	93.60	1497.60		
1 Plumber Apprentice	49.70	397.60	74.85	598.80		
32 L.H., Daily Totals		\$1893.20		\$2851.20	\$59.16	\$89.10
<b>Crew Q-4</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Plumber Foreman (inside)	\$62.65	\$501.20	\$94.35	\$754.80	\$59.16	\$89.10
1 Plumber	62.15	497.20	93.60	748.80		
1 Welder (plumber)	62.15	497.20	93.60	748.80		
1 Plumber Apprentice	49.70	397.60	74.85	598.80		
1 Welder, Electric, 300 amp		59.20		65.12	1.85	2.04
32 L.H., Daily Totals		\$1952.40		\$2916.32	\$61.01	\$91.14
<b>Crew Q-5</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Steamfitter	\$63.00	\$504.00	\$94.90	\$759.20	\$56.70	\$85.40
1 Steamfitter Apprentice	50.40	403.20	75.90	607.20		
16 L.H., Daily Totals		\$907.20		\$1366.40	\$56.70	\$85.40
<b>Crew Q-6</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
2 Steamfitters	\$63.00	\$1008.00	\$94.90	\$1518.40	\$58.80	\$88.57
1 Steamfitter Apprentice	50.40	403.20	75.90	607.20		
24 L.H., Daily Totals		\$1411.20		\$2125.60	\$58.80	\$88.57
<b>Crew Q-7</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Steamfitter Foreman (inside)	\$63.50	\$508.00	\$95.65	\$765.20	\$59.98	\$90.34
2 Steamfitters	63.00	1008.00	94.90	1518.40		
1 Steamfitter Apprentice	50.40	403.20	75.90	607.20		
32 L.H., Daily Totals		\$1919.20		\$2890.80	\$59.98	\$90.34
<b>Crew Q-8</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Steamfitter Foreman (inside)	\$63.50	\$508.00	\$95.65	\$765.20	\$59.98	\$90.34
1 Steamfitter	63.00	504.00	94.90	759.20		
1 Welder (steamfitter)	63.00	504.00	94.90	759.20		
1 Steamfitter Apprentice	50.40	403.20	75.90	607.20		
1 Welder, Electric, 300 amp		59.20		65.12	1.85	2.04
32 L.H., Daily Totals		\$1978.40		\$2955.92	\$61.83	\$92.37
<b>Crew Q-9</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Sheet Metal Worker	\$59.80	\$478.40	\$91.25	\$730.00	\$53.83	\$82.13
1 Sheet Metal Apprentice	47.85	382.80	73.00	584.00		
16 L.H., Daily Totals		\$861.20		\$1314.00	\$53.83	\$82.13
<b>Crew Q-10</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
2 Sheet Metal Workers	\$59.80	\$956.80	\$91.25	\$1460.00	\$55.82	\$85.17
1 Sheet Metal Apprentice	47.85	382.80	73.00	584.00		
24 L.H., Daily Totals		\$1339.60		\$2044.00	\$55.82	\$85.17
<b>Crew Q-11</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Sheet Metal Foreman (inside)	\$60.30	\$482.40	\$92.00	\$736.00	\$56.94	\$86.88
2 Sheet Metal Workers	59.80	956.80	91.25	1460.00		
1 Sheet Metal Apprentice	47.85	382.80	73.00	584.00		
32 L.H., Daily Totals		\$1822.00		\$2780.00	\$56.94	\$86.88
<b>Crew Q-12</b>	<b>Hr.</b>	<b>Daily</b>	<b>Hr.</b>	<b>Daily</b>	<b>Bare Costs</b>	<b>Incl. O&amp;P</b>
1 Sprinkler Installer	\$59.90	\$479.20	\$90.45	\$723.60	\$53.90	\$81.40
1 Sprinkler Apprentice	47.90	383.20	72.35	578.80		
16 L.H., Daily Totals		\$862.40		\$1302.40	\$53.90	\$81.40

# Crews - Standard

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew Q-13</b>						
1 Sprinkler Foreman (inside)	\$60.40	\$483.20	\$91.20	\$729.60	\$57.02	\$86.11
2 Sprinkler Installers	59.90	958.40	90.45	1447.20		
1 Sprinkler Apprentice	47.90	383.20	72.35	578.80		
32 L.H., Daily Totals		\$1824.80		\$2755.60	\$57.02	\$86.11
<b>Crew Q-14</b>						
1 Asbestos Worker	\$56.30	\$450.40	\$87.40	\$699.20	\$50.67	\$78.65
1 Asbestos Apprentice	45.05	360.40	69.90	559.20		
16 L.H., Daily Totals		\$810.80		\$1258.40	\$50.67	\$78.65
<b>Crew Q-15</b>						
1 Plumber	\$62.15	\$497.20	\$93.60	\$748.80	\$55.92	\$84.22
1 Plumber Apprentice	49.70	397.60	74.85	598.80		
1 Welder, Electric, 300 amp		59.20		65.12	3.70	4.07
16 L.H., Daily Totals		\$954.00		\$1412.72	\$59.63	\$88.30
<b>Crew Q-16</b>						
2 Plumbers	\$62.15	\$994.40	\$93.60	\$1497.60	\$58.00	\$87.35
1 Plumber Apprentice	49.70	397.60	74.85	598.80		
1 Welder, Electric, 300 amp		59.20		65.12	2.47	2.71
24 L.H., Daily Totals		\$1451.20		\$2161.52	\$60.47	\$90.06
<b>Crew Q-17</b>						
1 Steamfitter	\$63.00	\$504.00	\$94.90	\$759.20	\$56.70	\$85.40
1 Steamfitter Apprentice	50.40	403.20	75.90	607.20		
1 Welder, Electric, 300 amp		59.20		65.12	3.70	4.07
16 L.H., Daily Totals		\$966.40		\$1431.52	\$60.40	\$89.47
<b>Crew Q-17A</b>						
1 Steamfitter	\$63.00	\$504.00	\$94.90	\$759.20	\$56.50	\$85.13
1 Steamfitter Apprentice	50.40	403.20	75.90	607.20		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Hyd. Crane, 12 Ton		496.00		545.60		
1 Welder, Electric, 300 amp		59.20		65.12	23.13	25.45
24 L.H., Daily Totals		\$1911.20		\$2653.92	\$79.63	\$110.58
<b>Crew Q-18</b>						
2 Steamfitters	\$63.00	\$1008.00	\$94.90	\$1518.40	\$58.80	\$88.57
1 Steamfitter Apprentice	50.40	403.20	75.90	607.20		
1 Welder, Electric, 300 amp		59.20		65.12	2.47	2.71
24 L.H., Daily Totals		\$1470.40		\$2190.72	\$61.27	\$91.28
<b>Crew Q-19</b>						
1 Steamfitter	\$63.00	\$504.00	\$94.90	\$759.20	\$57.20	\$85.93
1 Steamfitter Apprentice	50.40	403.20	75.90	607.20		
1 Electrician	58.20	465.60	87.00	696.00		
24 L.H., Daily Totals		\$1372.80		\$2062.40	\$57.20	\$85.93
<b>Crew Q-20</b>						
1 Sheet Metal Worker	\$59.80	\$478.40	\$91.25	\$730.00	\$54.70	\$83.10
1 Sheet Metal Apprentice	47.85	382.80	73.00	584.00		
.5 Electrician	58.20	232.80	87.00	348.00		
20 L.H., Daily Totals		\$1094.00		\$1662.00	\$54.70	\$83.10
<b>Crew Q-21</b>						
2 Steamfitters	\$63.00	\$1008.00	\$94.90	\$1518.40	\$58.65	\$88.17
1 Steamfitter Apprentice	50.40	403.20	75.90	607.20		
1 Electrician	58.20	465.60	87.00	696.00		
32 L.H., Daily Totals		\$1876.80		\$2821.60	\$58.65	\$88.17

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew Q-22</b>						
1 Plumber	\$62.15	\$497.20	\$93.60	\$748.80	\$55.92	\$84.22
1 Plumber Apprentice	49.70	397.60	74.85	598.80		
1 Hyd. Crane, 12 Ton		496.00		545.60	31.00	34.10
16 L.H., Daily Totals		\$1390.80		\$1893.20	\$86.92	\$118.33
<b>Crew Q-22A</b>						
1 Plumber	\$62.15	\$497.20	\$93.60	\$748.80	\$51.95	\$78.44
1 Plumber Apprentice	49.70	397.60	74.85	598.80		
1 Laborer	39.85	318.80	60.70	485.60		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Hyd. Crane, 12 Ton		496.00		545.60	15.50	17.05
32 L.H., Daily Totals		\$2158.40		\$3055.60	\$67.45	\$95.49
<b>Crew Q-23</b>						
1 Plumber Foreman (outside)	\$64.15	\$513.20	\$96.60	\$772.80	\$60.02	\$90.42
1 Plumber	62.15	497.20	93.60	748.80		
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
1 Lattice Boom Crane, 20 Ton		1083.00		1191.30	45.13	49.64
24 L.H., Daily Totals		\$2523.40		\$3361.30	\$105.14	\$140.05
<b>Crew R-1</b>						
1 Electrician Foreman	\$58.70	\$469.60	\$87.75	\$702.00	\$54.40	\$81.33
3 Electricians	58.20	1396.80	87.00	2088.00		
2 Electrician Apprentices	46.55	744.80	69.60	1113.60		
48 L.H., Daily Totals		\$2611.20		\$3903.60	\$54.40	\$81.33
<b>Crew R-1A</b>						
1 Electrician	\$58.20	\$465.60	\$87.00	\$696.00	\$52.38	\$78.30
1 Electrician Apprentice	46.55	372.40	69.60	556.80		
16 L.H., Daily Totals		\$838.00		\$1252.80	\$52.38	\$78.30
<b>Crew R-1B</b>						
1 Electrician	\$58.20	\$465.60	\$87.00	\$696.00	\$50.43	\$75.40
2 Electrician Apprentices	46.55	744.80	69.60	1113.60		
24 L.H., Daily Totals		\$1210.40		\$1809.60	\$50.43	\$75.40
<b>Crew R-1C</b>						
2 Electricians	\$58.20	\$931.20	\$87.00	\$1392.00	\$52.38	\$78.30
2 Electrician Apprentices	46.55	744.80	69.60	1113.60		
1 Portable Cable Puller, 8000 lb.		130.15		143.16	4.07	4.47
32 L.H., Daily Totals		\$1806.15		\$2648.76	\$56.44	\$82.77
<b>Crew R-2</b>						
1 Electrician Foreman	\$58.70	\$469.60	\$87.75	\$702.00	\$54.64	\$81.79
3 Electricians	58.20	1396.80	87.00	2088.00		
2 Electrician Apprentices	46.55	744.80	69.60	1113.60		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 S.P. Crane, 4x4, 5 Ton		259.00		284.90	4.63	5.09
56 L.H., Daily Totals		\$3319.00		\$4865.30	\$59.27	\$86.88
<b>Crew R-3</b>						
1 Electrician Foreman	\$58.70	\$469.60	\$87.75	\$702.00	\$57.98	\$86.82
1 Electrician	58.20	465.60	87.00	696.00		
.5 Equip. Oper. (crane)	56.10	224.40	84.60	338.40		
.5 S.P. Crane, 4x4, 5 Ton		129.50		142.45	6.47	7.12
20 L.H., Daily Totals		\$1289.10		\$1878.85	\$64.45	\$93.94

# Crews - Standard

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew R-4</b>						
1 Struc. Steel Foreman (outside)	\$56.65	\$453.20	\$92.60	\$740.80	\$55.76	\$89.53
3 Struc. Steel Workers	54.65	1311.60	89.35	2144.40		
1 Electrician	58.20	465.60	87.00	696.00		
1 Welder, Gas Engine, 300 amp		98.40		108.24	2.46	2.71
40 L.H., Daily Totals		\$2328.80		\$3689.44	\$58.22	\$92.24
<b>Crew R-5</b>						
1 Electrician Foreman	\$58.70	\$469.60	\$87.75	\$702.00	\$50.83	\$76.65
4 Electrician Linemen	58.20	1862.40	87.00	2784.00		
2 Electrician Operators	58.20	931.20	87.00	1392.00		
4 Electrician Groundmen	37.80	1209.60	58.35	1867.20		
1 Crew Truck		166.00		182.60		
1 Flatbed Truck, 20,000 GW		197.20		216.92		
1 Pickup Truck, 3/4 Ton		115.20		126.72		
.2 Hyd. Crane, 55 Ton		198.76		218.64		
.2 Hyd. Crane, 12 Ton		99.20		109.12		
.2 Earth Auger, Truck-Mtd.		74.76		82.24		
1 Tractor w/Winch		361.80		397.98	13.78	15.16
88 L.H., Daily Totals		\$5685.72		\$8079.41	\$64.61	\$91.81
<b>Crew R-6</b>						
1 Electrician Foreman	\$58.70	\$469.60	\$87.75	\$702.00	\$50.83	\$76.65
4 Electrician Linemen	58.20	1862.40	87.00	2784.00		
2 Electrician Operators	58.20	931.20	87.00	1392.00		
4 Electrician Groundmen	37.80	1209.60	58.35	1867.20		
1 Crew Truck		166.00		182.60		
1 Flatbed Truck, 20,000 GW		197.20		216.92		
1 Pickup Truck, 3/4 Ton		115.20		126.72		
.2 Hyd. Crane, 55 Ton		198.76		218.64		
.2 Hyd. Crane, 12 Ton		99.20		109.12		
.2 Earth Auger, Truck-Mtd.		74.76		82.24		
1 Tractor w/Winch		361.80		397.98		
3 Cable Trailers		635.10		698.61		
.5 Tensioning Rig		209.93		230.92		
.5 Cable Pulling Rig		1213.00		1334.30	37.17	40.89
88 L.H., Daily Totals		\$7743.74		\$10343.24	\$88.00	\$117.54
<b>Crew R-7</b>						
1 Electrician Foreman	\$58.70	\$469.60	\$87.75	\$702.00	\$41.28	\$63.25
5 Electrician Groundmen	37.80	1512.00	58.35	2334.00		
1 Crew Truck		166.00		182.60	3.46	3.80
48 L.H., Daily Totals		\$2147.60		\$3218.60	\$44.74	\$67.05
<b>Crew R-8</b>						
1 Electrician Foreman	\$58.70	\$469.60	\$87.75	\$702.00	\$51.48	\$77.58
3 Electrician Linemen	58.20	1396.80	87.00	2088.00		
2 Electrician Groundmen	37.80	604.80	58.35	933.60		
1 Pickup Truck, 3/4 Ton		115.20		126.72		
1 Crew Truck		166.00		182.60	5.86	6.44
48 L.H., Daily Totals		\$2752.40		\$4032.92	\$57.34	\$84.02
<b>Crew R-9</b>						
1 Electrician Foreman	\$58.70	\$469.60	\$87.75	\$702.00	\$48.06	\$72.77
1 Electrician Lineman	58.20	465.60	87.00	696.00		
2 Electrician Operators	58.20	931.20	87.00	1392.00		
4 Electrician Groundmen	37.80	1209.60	58.35	1867.20		
1 Pickup Truck, 3/4 Ton		115.20		126.72		
1 Crew Truck		166.00		182.60	4.39	4.83
64 L.H., Daily Totals		\$3357.20		\$4966.52	\$52.46	\$77.60

Crew No.	Bare Costs		Incl. Subs O&P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew R-10</b>						
1 Electrician Foreman	\$58.70	\$469.60	\$87.75	\$702.00	\$54.88	\$82.35
4 Electrician Linemen	58.20	1862.40	87.00	2784.00		
1 Electrician Groundman	37.80	302.40	58.35	466.80		
1 Crew Truck		166.00		182.60		
3 Tram Cars		433.80		477.18	12.50	13.75
48 L.H., Daily Totals		\$3234.20		\$4612.58	\$67.38	\$96.10
<b>Crew R-11</b>						
1 Electrician Foreman	\$58.70	\$469.60	\$87.75	\$702.00	\$55.35	\$83.01
4 Electricians	58.20	1862.40	87.00	2784.00		
1 Equip. Oper. (crane)	56.10	448.80	84.60	676.80		
1 Common Laborer	39.85	318.80	60.70	485.60		
1 Crew Truck		166.00		182.60		
1 Hyd. Crane, 12 Ton		496.00		545.60	11.82	13.00
56 L.H., Daily Totals		\$3761.60		\$5376.60	\$67.17	\$96.01
<b>Crew R-12</b>						
1 Carpenter Foreman (inside)	\$51.20	\$409.60	\$78.00	\$624.00	\$47.44	\$72.73
4 Carpenters	50.70	1622.40	77.20	2470.40		
4 Common Laborers	39.85	1275.20	60.70	1942.40		
1 Equip. Oper. (medium)	53.75	430.00	81.05	648.40		
1 Steel Worker	54.65	437.20	89.35	714.80		
1 Dozer, 200 H.P.		1273.00		1400.30		
1 Pickup Truck, 3/4 Ton		115.20		126.72	15.78	17.35
88 L.H., Daily Totals		\$5562.60		\$7927.02	\$63.21	\$90.08
<b>Crew R-13</b>						
1 Electrician Foreman	\$58.70	\$469.60	\$87.75	\$702.00	\$56.37	\$84.42
3 Electricians	58.20	1396.80	87.00	2088.00		
.25 Equip. Oper. (crane)	56.10	112.20	84.60	169.20		
1 Equipment Oiler	48.60	388.80	73.30	586.40		
.25 Hydraulic Crane, 33 Ton		235.15		258.67	5.60	6.16
42 L.H., Daily Totals		\$2602.55		\$3804.26	\$61.97	\$90.58
<b>Crew R-15</b>						
1 Electrician Foreman	\$58.70	\$469.60	\$87.75	\$702.00	\$57.13	\$85.52
4 Electricians	58.20	1862.40	87.00	2784.00		
1 Equipment Oper. (light)	51.30	410.40	77.35	618.80		
1 Telescoping Boom Lift, to 40'		282.80		311.08	5.89	6.48
48 L.H., Daily Totals		\$3025.20		\$4415.88	\$63.02	\$92.00
<b>Crew R-15A</b>						
1 Electrician Foreman	\$58.70	\$469.60	\$87.75	\$702.00	\$51.02	\$76.75
2 Electricians	58.20	931.20	87.00	1392.00		
2 Common Laborers	39.85	637.60	60.70	971.20		
1 Equip. Oper. (light)	51.30	410.40	77.35	618.80		
1 Telescoping Boom Lift, to 40'		282.80		311.08	5.89	6.48
48 L.H., Daily Totals		\$2731.60		\$3995.08	\$56.91	\$83.23
<b>Crew R-18</b>						
.25 Electrician Foreman	\$58.70	\$117.40	\$87.75	\$175.50	\$51.07	\$76.35
1 Electrician	58.20	465.60	87.00	696.00		
2 Electrician Apprentices	46.55	744.80	69.60	1113.60		
26 L.H., Daily Totals		\$1327.80		\$1985.10	\$51.07	\$76.35
<b>Crew R-19</b>						
.5 Electrician Foreman	\$58.70	\$234.80	\$87.75	\$351.00	\$58.30	\$87.15
2 Electricians	58.20	931.20	87.00	1392.00		
20 L.H., Daily Totals		\$1166.00		\$1743.00	\$58.30	\$87.15

# Crews - Standard

Crew No.	Bare Costs		Incl. Subs O & P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
<b>Crew R-21</b>						
1 Electrician Foreman	\$58.70	\$469.60	\$87.75	\$702.00	\$58.21	\$87.04
3 Electricians	58.20	1396.80	87.00	2088.00		
.1 Equip. Oper. (medium)	53.75	43.00	81.05	64.84		
.1 S.P. Crane, 4x4, 25 Ton		66.84		73.52	2.04	2.24
32.8 L.H., Daily Totals		\$1976.24		\$2928.36	\$60.25	\$89.28
<b>Crew R-22</b>						
.66 Electrician Foreman	\$58.70	\$309.94	\$87.75	\$463.32	\$53.27	\$79.64
2 Electricians	58.20	931.20	87.00	1392.00		
2 Electrician Apprentices	46.55	744.80	69.60	1113.60		
37.28 L.H., Daily Totals		\$1985.94		\$2968.92	\$53.27	\$79.64
<b>Crew R-30</b>						
.25 Electrician Foreman (outside)	\$60.20	\$120.40	\$90.00	\$180.00	\$47.06	\$71.05
1 Electrician	58.20	465.60	87.00	696.00		
2 Laborers (Semi-Skilled)	39.85	637.60	60.70	971.20		
26 L.H., Daily Totals		\$1223.60		\$1847.20	\$47.06	\$71.05
<b>Crew R-31</b>						
1 Electrician	\$58.20	\$465.60	\$87.00	\$696.00	\$58.20	\$87.00
1 Core Drill, Electric, 2.5 H.P.		47.50		52.25	5.94	6.53
8 L.H., Daily Totals		\$513.10		\$748.25	\$64.14	\$93.53
<b>Crew W-41E</b>						
.5 Plumber Foreman (outside)	\$64.15	\$256.60	\$96.60	\$386.40	\$53.63	\$81.04
1 Plumber	62.15	497.20	93.60	748.80		
1 Laborer	39.85	318.80	60.70	485.60		
20 L.H., Daily Totals		\$1072.60		\$1620.80	\$53.63	\$81.04

# How to Use the Unit Price Pages

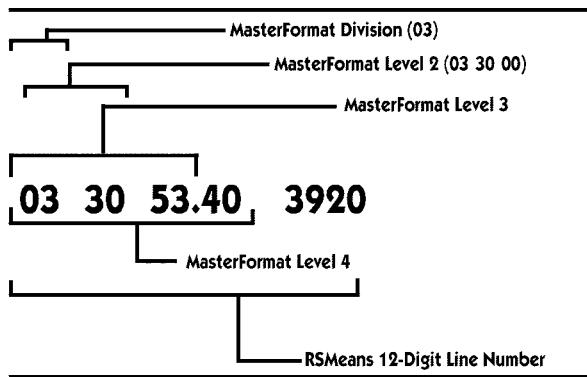
The following is a detailed explanation of a sample entry in the Unit Price Section. Next to each bold number below is the described item with the appropriate component of the sample entry following in parentheses. Some prices are listed as bare costs; others as costs that include overhead and profit of the installing contractor. In most cases, if the work is to be subcontracted, the general contractor will need to add an additional markup (RSMMeans suggests using 10%) to the figures in the column "Total Incl. O&P."

## 1 Division Number/Title (03 30/Cast-In-Place Concrete)

Use the Unit Price Section Table of Contents to locate specific items. The sections are classified according to the CSI MasterFormat 2004 system.

## 2 Line Numbers (03 30 53.40 3920)

Each unit price line item has been assigned a unique 12-digit code based on the CSI MasterFormat classification.



## 3 Description (Concrete In Place, etc.)

Each line item is described in detail. Sub-items and additional sizes are indented beneath the appropriate line items. The first line or two after the main item (in boldface) may contain descriptive information that pertains to all line items beneath this boldface listing.

Items which include the symbol **CN** are updated in The RSMMeans Quarterly Update Service online. To obtain access to this service contact RSMMeans customer service at 1-800-334-3509.

## 4 Reference Number Information

**R033053-50**

You'll see reference numbers shown in shaded boxes at the beginning of some sections. These refer to related items in the Reference Section, visually identified by a vertical gray bar on the page edges.

The relation may be an estimating procedure that should be read before estimating, or technical information.

The "R" designates the Reference Section. The numbers refer to the MasterFormat 2004 classification system.

It is strongly recommended that you review all reference numbers that appear within the section in which you are working.

### 03 30 Cast-In-Place Concrete

#### 03 30 53 - Miscellaneous Cast-In-Place Concrete

03 30 53.40 Concrete In Place	Crew	Daily Output	Labor Hours	Unit	Material	2008 Bare Costs			Total Incl O&P
						Labor	Equipment	Total	
3590 10' x 10' x 12" thick	5	9.600			560	365	4.99	929.99	
3800 Footings, spread under 1 C.Y.	C-14C	28	1.4	C.Y.	173	146	.88	319.88	
3825 1 C.Y. to 5 C.Y.		43	2.605		192	95.50	.57	288.07	360
3850 Over 5 C.Y.		75	1.493		176	54.50	.33	230.83	280
3900 Footings, strip, 18" x 9", unreinforced	C-14L	40	2.400		119	85.50	.62	205.12	264
3920 18" x 9", reinforced	C-14C	35	3.200		142	117	.70	259.70	340
3925 20" x 10", unreinforced	C-14L	45	2.133		117	76	.55	193.55	246
3930 20" x 10", reinforced	C-14C	40	2.800		135	103	.62	238.62	310
3935 24" x 12", unreinforced	C-14L	55	1.745		115	62	.45	177.45	222
3940 24" x 12", reinforced	C-14C	48	2.333		133	85.50	.51	219.01	282
3945 36" x 12", unreinforced	C-14L	70	1.371		112	49	.36	161.36	199

# 5 Crew (C-14C)

The "Crew" column designates the typical trade or crew used to install the item. If an installation can be accomplished by one trade and requires no power equipment, that trade and the number of workers are listed (for example, "2 Carpenters"). If an installation requires a composite crew, a crew code designation is listed (for example, "C-14C"). You'll find full details on all composite crews in the Crew Listings.

- For a complete list of all trades utilized in this book and their abbreviations, see the inside back cover.

Crews						
Crew No.	Bare Costs		Incl. Subs O & P		Cost Per Labor-Hour	
	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
1 Carpenter Foreman (eud)	\$40.10	\$320.80	\$62.40	\$499.20	\$36.62	\$57.27
6 Carpenters	38.10	1828.80	59.30	2846.40		
2 Rodmen (reinf.)	43.00	688.00	70.55	1128.80		
4 Laborers	30.25	968.00	47.05	1505.60		
1 Cement Finisher	37.00	296.00	54.30	434.40		
1 Gas Engine Vibrator		24.80		27.28	.22	.24
112 L.H., Daily Totals		\$4126.40		\$6441.68	\$36.84	\$57.52

# 6 Productivity: Daily Output (35.0)/ Labor-Hours (3.20)

The "Daily Output" represents the typical number of units the designated crew will install in a normal 8-hour day. To find out the number of days the given crew would require to complete the installation, divide your quantity by the daily output. For example:

Quantity	÷	Daily Output	=	Duration
100 C.Y.	÷	35.0/ Crew Day	=	2.86 Crew Days

The "Labor-Hours" figure represents the number of labor-hours required to install one unit of work. To find out the number of labor-hours required for your particular task, multiply the quantity of the item times the number of labor-hours shown. For example:

Quantity	x	Productivity Rate	=	Duration
100 C.Y.	x	3.20 Labor-Hours/ C.Y.	=	320 Labor-Hours

# 7 Unit (C.Y.)

The abbreviated designation indicates the unit of measure upon which the price, production, and crew are based (C.Y. = Cubic Yard). For a complete listing of abbreviations, refer to the Abbreviations Listing in the Reference Section of this book.

# 8 Bare Costs: Mat. (Bare Material Cost) (142)

The unit material cost is the "bare" material cost with no overhead or profit included. Costs shown reflect national average material prices for January of the current year and include delivery to the job site. No sales taxes are included.

## Labor (117)

The unit labor cost is derived by multiplying bare labor-hour costs for Crew C-14C by labor-hour units. The bare labor-hour cost is found in the Crew Section under C-14C. (If a trade is listed, the hourly labor cost—the wage rate—is found on the inside back cover.)

Labor-Hour Cost Crew C-14C	x	Labor-Hour Units	=	Labor
\$36.62	x	3.20	=	\$117.00

## Equip. (Equipment) (.70)

Equipment costs for each crew are listed in the description of each crew. Tools or equipment whose value justifies purchase or ownership by a contractor are considered overhead as shown on the inside back cover. The unit equipment cost is derived by multiplying the bare equipment hourly cost by the labor-hour units.

Equipment Cost Crew C-14C	x	Labor-Hour Units	=	Equip.
\$.22	x	3.20	=	\$.70

## Total (259.70)

The total of the bare costs is the arithmetic total of the three previous columns: mat., labor, and equip.

Material	+	Labor	+	Equip.	=	Total
\$142	+	\$117	+	\$.70	=	\$259.70

# 9 Total Costs Including O & P

This figure is the sum of the bare material cost plus 10% for profit; the bare labor cost plus total overhead and profit (per the inside back cover or, if a crew is listed, from the crew listings); and the bare equipment cost plus 10% for profit.

Material is Bare Material Cost + 10% = 142 + 14.20	=	\$156.20
Labor for Crew C-14C = Labor-Hour Cost (57.27) x Labor-Hour Units (3.20)	=	\$183.64
Equip. is Bare Equip. Cost + 10% = .70 + .07	=	\$ .77
Total (Rounded)	=	\$ 340

# How to Use the Book: The Details

## What's Behind the Numbers? The Development of Cost Data

The staff at RSMMeans continually monitors developments in the construction industry in order to ensure reliable, thorough, and up-to-date cost information. While overall construction costs may vary relative to general economic conditions, price fluctuations within the industry are dependent upon many factors. Individual price variations may, in fact, be opposite to overall economic trends. Therefore, costs are constantly tracked and complete updates are published yearly. Also, new items are frequently added in response to changes in materials and methods.

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### Costs—\$ (U.S.)

All costs represent U.S. national averages and are given in U.S. dollars. The RSMMeans City Cost Indexes can be used to adjust costs to a particular location. The City Cost Indexes for Canada can be used to adjust U.S. national averages to local costs in Canadian dollars. No exchange rate conversion is necessary.

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### Material Costs

The RSMMeans staff contacts manufacturers, dealers, distributors, and contractors all across the U.S. and Canada to determine national average material costs. If you have access to current material costs for your specific location, you may wish to make adjustments to reflect differences from the national average. Included within material costs are fasteners for a normal installation. RSMMeans engineers use manufacturers recommendations, written specifications, and/or standard construction practice for size and spacing of fasteners. Adjustments to material costs may be required for your specific application or location. The manufacturer's warranty is assumed. Extended warranties are not included in the material costs. Material costs do not include sales tax.

### Labor Costs

Labor costs are based on the average of wage rates from 30 major U.S. cities. Rates are determined from labor union agreements or prevailing wages for construction trades for the current year. Rates, along with overhead and profit markups, are listed on the inside back cover of this book.

- If wage rates in your area vary from those used in this book, or if rate increases are expected within a given year, labor costs should be adjusted accordingly.

Labor costs reflect productivity based on actual working conditions. In addition to actual installation, these figures include time spent during a normal weekday on tasks such as material receiving and handling, mobilization at site, site movement, breaks, and cleanup. Productivity data is developed over an extended period so as not to be influenced by abnormal variations and reflects a typical average.

### Equipment Costs

Equipment costs include not only rental, but also operating costs for equipment under normal use. The operating costs include parts and labor for routine servicing such as repair and replacement of pumps, filters, and worn lines. Normal operating expendables, such as fuel, lubricants, tires, and electricity (where applicable) are also included. Extraordinary operating expendables with highly variable wear patterns, such as diamond bits and blades, are excluded. These costs are included under materials. Equipment rental rates are obtained from industry sources throughout North America—contractors, suppliers, dealers, manufacturers, and distributors. Equipment costs do not include operators' wages; nor do they include the cost to move equipment to a job site (mobilization) or from a job site (demobilization).

### General Conditions

Prices given in this book include the Installing Contractor's overhead and profit (O&P). General Conditions, when applicable, should also be added to the Total Cost including O&P. The costs for General Conditions are listed in the Reference Section of this book. General Conditions for the Installing Contractor may

range from 0% to 10% of the Total Cost including O&P. For the General or Prime Contractor, costs for General Conditions may range from 5% to 15% of the Total Cost, including O&P, with a figure of 10% as the most typical allowance.

### Overhead and Profit

All costs in this book include overhead and profit for the *Installing Contractor*. The material column includes a 10% profit markup. The installation column includes labor burden plus 10% profit on labor and equipment costs. The total column is the sum of the material and installation columns. To complete the assemblies estimate, one should include an additional allowance for general conditions (5%–10%) and overhead and profit for the general contractor (5%–15%).

### Factors Affecting Costs

Costs can vary depending upon a number of variables. Here's how we have handled the main factors affecting costs.

**Quality**—The prices for materials and the workmanship upon which productivity is based represent sound construction work. They are also in line with U.S. government specifications.

**Overtime**—We have made no allowance for overtime. If you anticipate premium time or work beyond normal working hours, be sure to make an appropriate adjustment to your labor costs.

**Productivity**—The productivities used in calculating labor costs are based on working an eight-hour day in daylight hours in moderate temperatures. For work that extends beyond normal work hours or is performed under adverse conditions, productivity may decrease.

**Size of Project**—The size, scope of work, and type of construction project will have a significant impact on cost. Economies of scale can reduce costs for large projects. Unit costs can often run higher for small projects. Costs in this book are intended for the size and type of project as previously described in "How the Book Is Built: An Overview." Costs for projects of a significantly different size or type should be adjusted accordingly.

**Location**—Material prices in this book are for metropolitan areas. However, in dense urban areas, traffic and site storage limitations may increase costs. Beyond a 20-mile radius of large cities, extra trucking or transportation charges may also increase the material costs slightly. On the other hand, lower wage rates may be in effect. Be sure to consider both of these factors when preparing an estimate, particularly if the job site is located in a central city or remote rural location.

In addition, highly specialized subcontract items may require travel and per-diem expenses for mechanics.

**Other Factors**—

- season of year
- contractor management
- weather conditions
- local union restrictions
- building code requirements
- availability of:
  - adequate energy
  - skilled labor
  - building materials
- owner's special requirements/restrictions
- safety requirements
- environmental considerations

**Unpredictable Factors**— General business conditions influence "in-place" costs of all items. Substitute materials and construction methods may have to be employed. These may affect the installed cost and/or life cycle costs. Such factors may be difficult to evaluate and cannot necessarily be predicted on the basis of the job's location in a particular section of the country. Thus, where these factors apply, you may find significant but unavoidable cost variations for which you will have to apply a measure of judgment to your estimate.

## Rounding of Costs

In general, all unit prices in excess of \$5.00 have been rounded to make them easier to use and still maintain adequate precision of the results. The rounding rules we have chosen are in the following table.

Prices from . . .	Rounded to the nearest . . .
\$ .01 to \$5.00	\$ .01
\$5.01 to \$20.00	\$ .05
\$20.01 to \$100.00	\$ .50
\$100.01 to \$300.00	\$ 1.00
\$300.01 to \$1,000.00	\$ 5.00
\$1,000.01 to \$10,000.00	\$25.00
\$10,000.01 to \$50,000.00	\$100.00
\$50,000.01 and above	\$500.00

## Contingencies

The allowance for contingencies generally is included at the conceptual stage of a project to allow for design decisions that will be made as the project progresses. At the conceptual design phase an allowance of 20% is customary. During the design development process this should decrease to 15% as decisions are made. An allowance of 10% is usual during contract document developments, and 3%–5% is typical as a construction contingency.

The estimator, in addition, should consider cost escalation in his estimate. Calculate the increase in cost for the time period from the effective date of the data to the mid-point of the construction period. Use Means Historical Cost Indexes (Table J 1020-011) as a guide for year-to-year cost escalation.

## Final Checklist

Estimating can be a straightforward process provided you remember the basics. Here's a checklist of some of the steps you should remember to complete before finalizing your estimate.

Did you remember to . . .

- factor in the City Cost Index for your locale?
- take into consideration which items have been marked up and by how much?
- mark up the entire estimate sufficiently for your purposes?
- read the background information on techniques and technical matters that could impact your project time span and cost?
- include all components of your project in the final estimate?
- double check your figures for accuracy?
- call RSMMeans if you have any questions about your estimate or the data you've found in our publications?

Remember, RSMMeans stands behind its publications. If you have any questions about your estimate . . . about the costs you've used from our books . . . or even about the technical aspects of the job that may affect your estimate, feel free to call the RSMMeans editors at 1-800-334-3509.

## Assemblies Estimating

The grouping of several different trades into building components or broad building elements is the "Systems" or "Assemblies" method of estimating. This method allows the estimator or designer to make quick comparisons of systems in various combinations within predetermined guidelines. Systems which are best suited to accommodate budget, code, load, insulation, fireproofing, acoustics, energy considerations, and the owner's special requirements can quickly be determined. This method can also be used to help match existing construction.

In order to understand how a System estimate is assembled, it is a good idea to compare a Unit Price estimate with a Systems estimate. In a Unit Price Estimate, each item is normally included along the guidelines of the 50-division MasterFormat of the Construction Specifications Institute. In a Systems estimate, these same items are allocated to one of seven major group elements in the UNIFORMAT II organization. Certain items that were formerly grouped into a single trade breakdown must now be allocated among two or more systems.

An example of this difference would be concrete. In a Unit Price estimate, all the concrete items on the job would be priced in the "Concrete" section of the estimate, CSI Division 03. In a Systems estimate, concrete is found in a number of locations. For instance, concrete is used in all of these systems: Division A10, Foundations; Division A20, Basement Construction; Division B10, Superstructure; and Division B20, Exterior Closure.

Conversely, other items that are listed in separate trade breakdowns in a Unit Price estimate are combined into one division in the System estimate. For example, interior partitions might include two CSI divisions: Division 06, Wood Stud Wall; and Division 09, Lath, Plaster and Paint. In the UNIFORMAT II Systems Estimate, these items are all combined in Division C, Interior Construction.

This re-allocation of the familiar items from the CSI format may, at first, seem confusing, but once the concept is understood, the resultant increase in estimating speed is well worth the initial familiarization required.

Systems or Assemblies estimating is not a substitute for Unit Price estimating. It is normally done during the earlier conceptual stage before plans have been completed or when preparing a budget. This enables the designer to bring in the project within the owner's budget. During the actual initial design process, the designer will be forced to make important decisions and "trade-offs" for each of the various systems. Some of the trade-offs can include:

- a. Price of each system
- b. Appearance, quality, and compatibility
- c. Story height
- d. Clear span
- e. Complications and restrictions
- f. Thermal characteristics
- g. Life-cycle costs
- h. Acoustical characteristics
- i. Fireproofing characteristics
- j. Special owner's requirements in excess of code requirements
- k. Code
- l. Load

Before starting a Systems Estimate, gather all the information possible pertaining to the project.

Information can be gathered from:

1. Code Requirements (see Reference Section L of this book)
2. Owner's Requirements
3. Preliminary Assumptions
4. Site Inspection and Investigation

Since the Foundation and Substructure design and price are functions of the Superstructure and the site, it is advisable to start the estimate with the Superstructure. Follow this with the Foundation and Superstructure, and then the other Systems in the sequence as applicable to your project.

## Free Quarterly Updates

Stay up-to-date throughout 2014 with RSMeans' free cost data updates four times a year. Sign up online to make sure you have access to the newest data. Every quarter we provide the city cost adjustment factors for hundreds of cities and key materials. Register at: [www.rsmeans2014updates.com](http://www.rsmeans2014updates.com)