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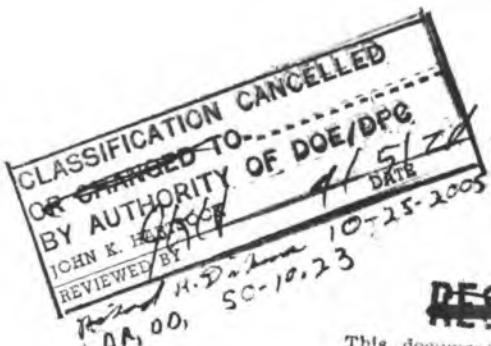
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DATE	2/26/59
-H.R. Canale	
Chief, Declassification Branch TC	



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MANHATTAN DISTRICT HISTORY  
BOOK IV - PILE PROJECT 64142  
X-10  
VOLUME 5 - CONSTRUCTION  
APPENDIX - B, C, D

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APPENDIX B

TABULATIONS AND CHARTS

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MANHATTAN DISTRICT HISTORY

BOOK IV - PILE PROJECT

VOLUME 5 - CONSTRUCTION

APPENDIX D

CHARTS AND TABULATIONS

<u>No.</u>	<u>Description</u>
1	Tabulation of Mileage from Richland and Hanford to Areas
2	Tabulation of Distances of Existing Centers of Population from Hanford
3	Summary of Purchase Orders
4	Summary of Contracts and Subcontracts
5	Summary of Government Transfers
6	Major Equipment Inventory
7	Cumulative Interviews and Hires
8	Summary of Recruitment Costs
9	Critical Craft Charts
10	Craft Charts
11	Composite Force Chart
12	Tabulation of Work Stoppages
13	Charts of Capacity and Occupancy of Hanford Camp Barracks and Trailer Camp
14	Tabulation of Hanford Camp Capacities
15	Tabulation of Barrack Construction Dates
16	Tabulation of Trailer Camp Capacities and Construction Dates
17	Tabulation of Hanford Camp Services and Facilities
18	Tabulation of Hanford Camp Commercial Contracts
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20	Employment Chart of Medical Department
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23	Tabulation of Hanford Camp Subcontracts
24	Completion Forecast Charts
25	Force Curves
26	Tabulation of Rate of Construction of Hanford Camp
27	Tabulation of Auxiliary Construction Camp (3000 Area) Build- ing and Facilities
28	Tabulation of Central Shops Area Building and Facilities
29	Tabulation of Process Area Temporary Construction
30	Tabulation of Temporary Road Construction
31	Tabulation of Temporary Walk Construction
32	Tabulation of Temporary Sewer and Septic Tank Construction
33	Tabulation of Tract Houses Used for Bachelor Quarters

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<u>No.</u>	<u>Description</u>
34	Tabulation of Miscellaneous Temporary Construction
35	Tabulation of Metal Fabrication and Testing Area Buildings and Facilities
36	Charts and Tabulations of Metal Fabrication and Testing Area Construction Progress
37	Tabulation of Subcontracts for Metal Fabrication and Testing Area Construction
38	Tabulation of Pile Area Buildings and Facilities
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45	Tabulation of Separation Area Shift Work Schedules
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49	Tabulation of Permanent Road Construction
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51	Chart of Richland Village Construction Progress
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53	Tabulations of Area and Off-Area Bus Schedules
54	Tabulation of Safety Meetings
55	Tabulation of Safety Program Results
56	Summary of Construction Costs
57	Charts of Hanford Area Engineer's Organization
58	Chart of Prime Contractor's Organization

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AREA MILEAGE TABULATIONS

<u>AREA</u>	<u>MILEAGE TO HANFORD</u>	<u>MILEAGE TO RICHLAND</u>
Metal Fabrication and Testing Area	16.2	7.4
B-Pile Area	17.7	38.0
D-Pile Area	10.8	37.4
F-Pile Area	8.3	30.2
North Separation Area	10.8	31.0
East Separation Area	9.6	28.7
West Separation Area	13.9	30.5
Hanford	-	23.2
Richland	23.2	-

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✓ DISTANCES OF EXISTING CENTERS OF POPULATION FROM HANFORD

<u>Name</u>	<u>Population</u>	<u>Distance from Hanford (Miles)</u>
Kennewick	1918	36.5
Pasco	8500	37.5
Benton City	300	25.0
Grandview	1876	46.0
Sunnyside	3500	44.0
Prosser	2250	39.0
Connell	450	38.0
Yakima	28,840	62.0

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- b Where do the 43,000 orders referred to by  
Vol. 5, page 3.3 apply?
- c What does "RPG" mean?
- d What does "A.E. - 27385" on sheet 2 mean?
- e Are the H.E.W. Orders those referred to by page 3.7  
of the text.
- f Page 3.7 indicates that half numbers originate at  
the Wilmington office. Whole numbers must  
originate at Hanford. Also see page 3.9.

HANFORD ENGINEER WORKS  
ANALYSIS OF PURCHASE ORDERS  
SHOWING REASON SUPPLIER SELECTED

REASON SUPPLIER SELECTED	ORDERS PLACED BY HANFORD		ORDERS PLACED BY WILMINGTON		TOTAL	
	NO. OF ORDERS	VALUE OF ORDERS	NO. OF ORDERS	VALUE OF ORDERS	ORDERS PLACED	VALUE OF ORD.
1	18,309	\$ 34,346,053	1,938	\$ 28,646,837	20,247	\$ 62,991,890
2	4,956	3,310,068	189	1,249,782	5,155	4,559,850
3	7	172,058	None	None	7	172,058
4	5,953	1,777,933	743	4,305,532	6,696	6,083,465
5	446	753,777	2	359,585	446	1,113,662
6	484	1,130,666	274	6,746,206	758	7,876,872
7	98	18,918,185	3	431,861	101	19,550,046
8	11,796	21,523,634	2,114	23,693,512	13,910	45,217,146
GRAND TOTAL						\$147,364,989

\* Legend:

- |     |                |     |                             |
|-----|----------------|-----|-----------------------------|
| (1) | Lowest Price   | (4) | Required Design             |
| (2) | Early Delivery | (5) | Only Available Source Known |
| (3) | Better Quality | (6) | Price Agreement             |

- |     |                             |
|-----|-----------------------------|
| (7) | As per Contract             |
| (8) | 80% To Expedite Procurement |
|     | 10% Services Rendered       |
|     | 5% C.P.A. Allocations       |
|     | 5% Miscellaneous            |

SUMMARY OF WHOLE NUMBER PURCHASE ORDERS  
ADDENDUM NO. 1

Explanation of "Reason Supplier Selected" No. 8, Miscellaneous:

<u>Purchase Order No.</u>	<u>Explanation</u>
RPG 1108	Corps of Engr. Award - A.E. - 27385
" 1190	Corps of Engr. Award - A.E. - 25095
" 1280	Corps of Engr. Award - A.E. - 30638
" 3010	Corps of Engr. Allocation
" 4322	Best organization and qualifications
" 6929	N.P.B. Directive
" 24462	Corps of Engr. Allocation - A.E. - 38640-S

## SUMMARY OF SPEND

## NUMBER PURCHASE ORDERS

<u>Vendor</u>	<u>Address</u>
Brooks Lumber Co.	Bellingham, Wash.
G. A. Pehrson	Old Nat'l Bank Bldg. Spokane, Wash.
G. P. Atkinson Co. By	662 Russ Bldg. San Francisco, Calif.
Ford J. Twaites Co. and Harrison- Knudson, Inc.	451 S. Boyleton St. Los Angeles, Calif.
Meyers Bros. - E. W. Bell & Sons	Los Angeles, Calif.
Sesbury-Chandler-Lord	1058 Venice Blvd. Los Angeles, Calif.
Twaites-Harrison- Knudson	Box 3159-Terminal Annex, Los Angeles, Calif.
Hanford Concrete Contractors	Winona, Minn.
Hankins-James- Zehniser-Warren	E. 925 First Nat'l Bank Bldg. St. Paul, Minnesota

<u>(***)</u> <u>Reason</u> <u>Supplier</u> <u>Selected</u>	<u>Material</u>	<u>Amount</u>	<u>RPG No.</u>
1	wood pipes	\$ 111,022.80	287
1	Arch. & Eng. Serv., in const. of Highland	581,012.15	402
1	Field Labor, equipment, for R. H. Construction	3,036,090.18	403
1	Labor, material, equip- ment, etc. for const. 290 housing units in Highland	2,353,533.06	404
7	Excavating and roads	3,983,072.61	407
3	Installation of elec- trical systems	172,700.00	408
7	Labor, material, equipment for utilities road const.	478,503.07	409
1	Ready-mix concrete and installation of mix plant	5,500,158.62	410
3	Installation of piping systems	502,000.00	411

<u>Vendor</u>	<u>Address</u>	(***) Reason Supplier Selected	<u>Material</u>	<u>Amount</u>	<u>EPG No.</u>
H. G. Dunham Lab.	Seattle, Wash.	1	Sample and Test. Const. material	\$ 104,568.50	414
A. A. Durand & Sons	Walla Walla, Wash.	1	Water wells	291,064.22	415
Weyerhaeuser Sales Co.	Tacoma, Wash.	8	Lumber	148,472.49	1108
Dant & Russell, Inc.	Portland, Ore.	8	Lumber	146,941.31	1190
Moore Mill & Lumber Co.	Portland, Ore.	8	Lumber	144,775.52	1280
Chain Belt Co.	Milwaukee, Wis.	5	Pumprotors	269,173.07	2120
Erie City Iron Works	Erie, Pa.	8	Boilers	114,730.65	3010
Bugget Coal	860 N. 3rd St. Laramie, Wyo.	1	Coal	118,971.24	3748
Curtis Gravel Co. Spokane, Wash.	Spokane, Wash.	1	Concrete	201,743.56	4321
Smith, Hoffman & Wright	Portland, Ore.	8	Richland Village	17,011,647.58	4322
Chas. K. Brower & Co.	116 Virginia St. Seattle, Wash.	1	Thermal insulation	232,662.00	4323

<u>Vendor</u>	<u>Address</u>	(***) Reason Supplier Selected	<u>Material</u>	<u>Amount</u>	<u>RPG No.</u>
American Pipe & Construction Co.	P.O. Box 3428 Terminal Annex, Los Angeles, 54, Calif.	7	Concrete Pipe	\$1,594,292.02	4324
Wm. Vail	Box 3869, Portland, Ore.	2	Construction	203,722.35	4332
Guerin Bros.	208 S. Linden Ave. San Francisco, Calif.	1	Excavation, road const. R.R. widening	1,741,152.81	4334
Bat'l Gunite Contracting Co.	322 Bond Bldg. Washington, D. C.	1	Gunite const.	438,402.29	4335
G. R. Jessen & J. C. Wright Const. Co.	1212 South State St. Salt Lake City, Utah	1	Mfg. of concrete blocks and bricks	278,469.97	4336
C. F. Atkinson Co.	662 Russ Bldg. San Francisco, Calif.	1	excavation of channel in river and laying pipe line	536,046.00	4337
Guy F. Atkinson Co.	662 Russ Bldg. San Francisco, Calif.	1	Railroad	1,846,209.96	4339
Ball & Simpson	Berkeley, Calif.	1	Hauling	126,023.65	4341
Smith, Hoffman & Wright	Portland, Ore.	1	Kickland Utilities	1,789,838.03	4364

<u>Vendor</u>	<u>Address</u>	<u>Supplier Selected</u>	<u>Material</u>	<u>Amount</u>	<u>Inv No.</u>
Arizona Iron Works	Box 750 Phoenix, Ariz.	1	Cast iron forms	\$ 104,476.87	5378
Bunker Hill Ssclter	Kellog, Idaho	1	Lead	125,070.00	5607
A. B. Stoves, Inc.	Battle Creek, Mich	8	Stoves	124,800.00	0929
Reynolds-Updike Coal Co. - Sales Agent for Roberts Coal Co.	Grain Exchange Bldg. Omaha, Neb.	2	Coal	202,960.00	7638
Camp Lewis Tent & Awning Co.	1107 - 1st Ave. Seattle, Wash.	1	Cots, linens, mattresses	189,840.00	10636
Camp Lewis Tent & Awning Co.	1107 - 1st. Ave. Seattle, Wash.	1	Bunks, mattresses	102,400.00	10830
Hobbs Industries	6901 Fox Ave. Seattle, Wash.	1	Huts	468,602.80	21882
Hobbs Industries	6901 Fox Ave. Seattle, Wash.	1	Wardrobe lockers	142,700.00	23635
Hobbs Industries	6901 Fox Ave. Seattle, Wash.	1	Butments	179,020.00	23640

<u>Vendor</u>	<u>Address</u>	<u>(***) Reason Supplier Selected</u>	<u>Material</u>	<u>Amount</u>	<u>RPG No.</u>
Bethlehem Steel Co.	Portland, Oregon	8	Steel	\$ 114,160.00	24462
Hobbs Industries	6901 Fox Ave.	1	Hutments	163,960.00	25315

Total value of whole order number purchase orders \$100,000.00 or more each - 45,774,359.76 \*\*

Total value of whole order number purchase orders less than \$100,000.00  
each - 29,260,208.29 \*\*

Total value of all whole order number purchase orders issued - \$ 75,034,568.05 \*\*

\* Fixed Fee - Does Not include cost.

\*\* These figures are based on the most accurate information available at this time and do not include results of renegotiations.

\*\*\* Legend -

1. Lowest Price
2. Early Delivery
3. Better Quality
4. Required Design
5. Only Available Source Known
6. Price Agreement
7. As Per Contract
8. Miscellaneous

## SUMMARY OF HALF NUMBER PURCHASE ORDERS

## ADDENDUM NO. 1

Explanation of "Reason Supplier Selected" No. 8, Miscellaneous:

<u>Purchase Order No.</u>	<u>Explanation</u>	<u>Purchase Order No.</u>	<u>Explanation</u>
RPG 53 $\frac{1}{2}$	Negotiated	RPG 325 $\frac{1}{2}$	Use of former competition on RPG 302 $\frac{1}{2}$ (Lowest Price)
" 75 $\frac{1}{2}$	To expedite design and procurement	" 404 $\frac{1}{2}$	Use of former competition on RPG 126 $\frac{1}{2}$ (Lowest Price)
" 99 $\frac{1}{2}$	To expedite design and procurement	" 408 $\frac{1}{2}$	Required design by W.P.B. Directive
" 123 $\frac{1}{2}$	To expedite design and procurement	" 419 $\frac{1}{2}$	Lowest bid meeting requirements
" 150 $\frac{1}{2}$	To expedite design and procurement	" 582 $\frac{1}{2}$	To expedite design and procurement
" 151 $\frac{1}{2}$	To expedite design and procurement	" 645 $\frac{1}{2}$	Required design
" 159 $\frac{1}{2}$	Lowest price of sources developed to meet specifications	" 664 $\frac{1}{2}$	Required design and procurement
" 192 $\frac{1}{2}$	Economy of operation	" 674 $\frac{1}{2}$	Required design and procurement
" 199 $\frac{1}{2}$	Use of former competition (Lowest Price)	" 694 $\frac{1}{2}$	Required design and procurement
" 211 $\frac{1}{2}$	To expedite procurement	" 1005 $\frac{1}{2}$	Required design and procurement
" 212 $\frac{1}{2}$	To expedite procurement	" 1012 $\frac{1}{2}$	Required design and procurement
" 258 $\frac{1}{2}$	To expedite design and procurement	" 1045 $\frac{1}{2}$	To expedite design and procurement
" 285 $\frac{1}{2}$	To expedite design and procurement	" 1220 $\frac{1}{2}$	To expedite design and procurement

SUMMARY OF HALF NUMBER PURCHASE ORDERS - ADDENDUM NO. 1

<u>Purchase Order No.</u>	<u>Explanation</u>
RPG 1556 $\frac{1}{2}$	To expedite design and procurement
" 1949 $\frac{1}{2}$	To expedite design and procurement
" 1993 $\frac{1}{2}$	To expedite design and procurement
" 2365 $\frac{1}{2}$	To expedite design and procurement
" 2872 $\frac{1}{2}$	To expedite design and procurement
" 3534 $\frac{1}{2}$	To expedite design and procurement
" 4018 $\frac{1}{2}$	To expedite design and procurement
" 4021 $\frac{1}{2}$	To expedite design and procurement
" 4040 $\frac{1}{2}$	Vendor only firm of four contacted which had necessary equipment, personnel and capacity
" 4061 $\frac{1}{2}$	To expedite design and procurement
" 4350 $\frac{1}{2}$	To expedite design and procurement

SUMMARY OF HALF NUMBER PURCHASE ORDERS

<u>Vendor</u>	<u>Address</u>	(***) Reason <u>Supplier Selected</u>	<u>Material</u>	<u>Amount</u>	<u>RPG No.</u>
Whiting Corp.	New York, N. Y.	1	Switch devices	\$ 206,501.80	162 <sup>1</sup>
Allegheny Ludlum Steel	Philadelphia, Pa.	8	Stainless steel	242,255.58	33 <sup>1</sup>
Olympic Commissary Co.	302 S. Canal St. Chicago, Ill.	8	Commissary Operations	284,000.00*	53 <sup>1</sup>
National Carbon Co., Inc.	30 E. 42nd St. New York, N.Y.	8	Graphite Bars	198,042.36	75 <sup>1</sup>
International Graphite Electrode Corp.	St. Mary, Pa.	8	Graphite Bars	124,100.00	99 <sup>1</sup>
National Carbon Co.	30 E. 42nd St. New York, N.Y.	8	Graphite Bars	2,986,160.00	123 <sup>1</sup>
Roberts Filter Mfg.	Darby, Pa.	1	Steel mixing chambers	469,488.00	125 <sup>1</sup>
Allegheny Ludlum Steel	Philadelphia, Pa.	6	Stainless Steel	533,583.62	142 <sup>1</sup>
Bethlehem Steel Co.	Broad St. Station Bldg. Philadelphia, Pa.	8	Steel plates	504,781.83	150 <sup>1</sup>

<u>Vendor</u>	<u>Address</u>	<u>(***)</u> Reason Supplier Selected	<u>Material</u>	<u>Amount</u>	<u>RPG No.</u>
Lukens Steel Co.	Coatesville, Pa.	8	Stainless Steel	\$ 559,255.91	151½
Panellitt Display	Chicago, Ill.	4	Instrument fabrication	272,575.73	152½
Porcelain Metal Product Co.	Carnegie, Pa.	8	Steel	102,500.00	159½
Joshua Handy Iron Eks.	New York, N. Y.	8	Turbine Pumps	168,586.35	192½
Permitit Co.	330 W. 42nd St. New York, N. Y.	1	Sinter demineralizing plant	2,188,814.78	198½
Roberts Filter Mfg. Co.	Darby, Pa.	8	Filtrating Plant	469,583.00	199½
Combustion Engineer- Philadelphia, Pa. ing Co.		1	Steel	869,748.37	207½
General Electric Co.	1406 Locust St. Philadelphia, Pa.	8	Transformers	348,680.00	211½
Westinghouse Elec. & Mfg. Co.	Philadelphia, Pa.	8	Circuit breakers	500,166.00	212½
Clinton Bridge Works	Clinton, Iowa	1	Steel fabrication	1,523,824.97	241½
Globe Steel Tubes	Philadelphia, Pa. Co.	8	Stainless steel	137,584.67	243½
Babcock & Wilcox Co.	Packard Bldg. Philadelphia, Pa.	8	Boilers	164,521.23	258½

<u>Vendor</u>	<u>Address</u>	<u>Reason Supplier Selected</u>	<u>Material</u>	<u>Amount</u>	<u>RPO No.</u>
Vistorsen Instrument Co.	6806 Kough Ave. Cleveland, Ohio	8	Meters	124,064.00	285 $\frac{1}{2}$
Erie City Iron Works	908 City Center Bldg. Philadelphia, Pa.	1	Steam Generating Units	519,788.25	306 $\frac{1}{2}$
Combustion Engineering Co.	New York, N. Y.	1	Boilers	422,930.26	307 $\frac{1}{2}$
Cochrane Corp.	Philadelphia, Pa.	8	Desalinating Equip.	747,479.33	325 $\frac{1}{2}$
York Corp.	1616 Walnut St. Philadelphia, Pa.	1	Refrigeration Equip.	819,985.00	350 $\frac{1}{2}$
Roberts Filter Mfg.	Darby, Pa.	8	Filtration Equip.	464,873.00	404 $\frac{1}{2}$
Gen. Cable Corp.	123 So. Broad St. Philadelphia, Pa.	8	Aluminum	185,855.32	408 $\frac{1}{2}$
Ingersoll Rand Co.	200 W. 9th St. Wilmington, Del.	8	Turbine driven preliminary process water pumps	196,368.00	419 $\frac{1}{2}$
Bird Machine Co.	South Salpole, Mass.	4	Centrifugal machines	549,434.11	532 $\frac{1}{2}$
Westinghouse Electric	3001 Walnut St. Philadelphia, Pa.	1	Steam Turbines	114,570.00	543 $\frac{1}{2}$
Hunt Bag. Co.	Pittsburgh, Pa.	1	Reinforced Concrete Chimney	189,214.47	566 $\frac{1}{2}$
Aluminum Co. of America	123 S. broad St. Philadelphia, Pa.	8	Aluminum Tubes	243,617.50	582 $\frac{1}{2}$

<u>Vendor</u>	<u>Address</u>	(***) Reason Supplier Selected	<u>Material</u>	<u>Amount</u>	<u>MPG No.</u>
Masonite Corp.	111 W. Rush St. Chicago, Ill.	4	Masonite	\$ 763,664.30	584 $\frac{1}{2}$
Westinghouse Elec.	3001 Walnut St. Philadelphia, Pa.	2	Special type motors	228,290.62	601 $\frac{1}{2}$
Chicago Bridge	1700 Walnut St. Philadelphia, Pa.	1	Steel water storage tanks	241,171.43	637 $\frac{1}{2}$
Patch-Jaggar Co.	Burland, Vt.	8	Block assemblies	225,550.79	645 $\frac{1}{2}$
Link Belt Co.	2045 W. Hunting Park Ave., Philadelphia, Pa.	1	Equipment for 2 coal handling systems	200,290.42	658 $\frac{1}{2}$
Link Belt Co.	2045 W. Hunting Park Ave., Philadelphia, Pa.	1	Equipment for 3 coal handling systems	399,024.75	659 $\frac{1}{2}$
Swind Mach. Co.	Broad St. Station Bldg. Philadelphia, Pa.	5	Boring - drilling and milling machines	143,960.50	664 $\frac{1}{2}$
Ham Machinery Co.	York, Pa.	8	Laminated block assem- blies, welding assemblies	351,722.02	674 $\frac{1}{2}$
Aero Products Div. American Locomotive Works	50 Church St. New York, N. Y.	8	Steel plates	276,416.92	694 $\frac{1}{2}$

<u>Vendor</u>	<u>Address</u>	<u>Reason Supplier Selected</u>	<u>Material</u>	<u>Amount</u>	<u>EPG No.</u>
Severe Copper & Brass Inc.	230 Park Ave. New York, N. Y.	1	Labor and Equipment used in Extrusion of Material	\$ 764,000.00	704½
Westinghouse Electric & Mfg. Co.	3001 Walnut St. Philadelphia, Pa.	4	Refrigeration unit	171,270.76	773½
Worthington Pump & Machine Corp.	847 Delaware Trust Bldg., Wilmington, Del.	1	Steam jet air ejectors	101,548.00	792½
Philadelphia Iron Works	Philadelphia, Pa.	1	Boiler breechings	104,131.15	808½
Chicago Bridge & Iron Co.	Philadelphia, Pa.	1	Neoprene Lining	255,999.47	823½
Joyce Machine Co.	2080 Wheatsheaf Lane Frankfort, Phila., Pa.	1	Steel jaws and pins	211,244.88	888½
Waldrip Eng. Co.	Hollydale, Cal.	1	Fabrication of pipe	109,726.01	932½
Toledo Scales Co.	200 E. Ninth Wilmington, Del.	1	Platform Scales	101,622.40	974½
Warren City Mfg. Co.	Warren, Ohio	8	Laminated Block Assemblies	\$20,841.84	1005½

<u>Vendor</u>	<u>Address</u>	<u>Season Supplier Selected</u>	<u>Material</u>	<u>Amount</u>	<u>PG No.</u>
Lukens Steel Co.	Coatesville, Pa.	8	Processing steel plates	\$ 106,891.20	1012 $\frac{1}{2}$
Allegheny Ludlum	944 Broad St. Station Bldg., Philadelphia, Pa. 6		Stainless steel	1,089,206.27	1028 $\frac{1}{2}$
International Harvester	180 N. Mich. Ave. Chicago, Ill.	1	Fabrication of sleeves	326,542.09	1033 $\frac{1}{2}$
Balmar Corporation	3500 Clipper Road Woodberry, Baltimore, Md.	6	Sub-block Assemblies	365,986.16	1046 $\frac{1}{2}$
Chapman Valve Mfg. Co.	203 Hampshire Indian Orchard, Mass.	4	Gate valves	247,770.00	1107 $\frac{1}{2}$
Warren City Mfg. Co.	Warren, Ohio	8	Masonite and drills	111,017.40	1220 $\frac{1}{2}$
Haughton Elevator Co.	1730 Ludlow St. Philadelphia, Pa.	1	Electric elevators	322,115.74	1245 $\frac{1}{2}$
Lynchburg Foundry	Lynchburg, Va.	1	Cast Iron blocks	119,937.46	1351 $\frac{1}{2}$
Schutte & Koerting Co.	12th & Thompson St. Philadelphia, Pa.	1	Steam jet syphons	244,644.00	1370 $\frac{1}{2}$
Struthers-Wells Co.	30 Rockefeller Plaza New York, N. Y.	1	Stainless steel tanks & covers	252,702.50	1381 $\frac{1}{2}$

<u>Vendor</u>	<u>Address</u>	(***) Reason Supplier Selected	<u>Material</u>	<u>Amount</u>	<u>RPG No.</u>
Carpenter Steel Co.	P. O. Box 118 Roselle, New Jersey	8	Stainless steel welded tubing	\$ 305,850.30	1410 $\frac{1}{2}$
Morrison-Knudsen Co. Bechtel-McCone Parsons Boise, Idaho Corp., W. A. Bechtel Co.	312 Broadway	1	Storage tanks	8,690,035.42	1451 $\frac{1}{2}$
Asbestos Supply Co.	First Ave. at Jackson Seattle, Wash.	1	Thermal insulation for piping, valves, and equipment	861,998.34	1473 $\frac{1}{2}$
Herring-Hall-Marvin Safe Co.	Grand Boulevard Hamilton, Ohio	1	Cast iron sleeves	101,306.31	1522 $\frac{1}{2}$
Joyce Machine Co.	2080 Wheatshaeft Lane Frankfort, Philadelphia, 24, Pa.	1	Cast iron sleeves	108,075.52	1624 $\frac{1}{2}$
Calumet Tube Div. of Calumet and Hecla Consolidated Copper Co.	1411 Central Ave. Detroit, Mich.	8	Pig Tails	357,938.19	1556 $\frac{1}{2}$
Whiting Corp.	136 Liberty St. New York, N. Y.	1	Cranes (elect.)	124,542.00	1720 $\frac{1}{2}$
A. O. Smith	155 E. 44th St. New York 17, N. Y.	1	Pipes and fittings	170,591.00	1929 $\frac{1}{2}$

<u>Vendor</u>	<u>Address</u>	<u>(***) Reason Supplier Selected</u>	<u>Material</u>	<u>Amount</u>	<u>RPG No.</u>
Whiting Corporation	136 Liberty St. New York 6 N. Y.	8	Spars parts for motor winches	\$ 248,716.59	1949 $\frac{1}{2}$
Aluminum Co. of America	123 S. Broad St. Philadelphia, Pa.	8	Die and tubing	169,200.00	1953 $\frac{1}{2}$
G. O. Carlson, Inox	Thorndale, Pa.	1	Forgings	105,840.00	2012 $\frac{1}{2}$
U. S. Rubber	5th & Locust Sts. Philadelphia, Pa.	1	Rubber lining of fabricated piping	133,321.07	2027 $\frac{1}{2}$
Triplatt & Barton	1705 Victory Place Hurbank, Calif.	1	Tank welds, x-rayed on 75° and 20° Dia. radiographs where repair work is performed	325,061.74	2115 $\frac{1}{2}$
Ben F. Shaw Co.	2nd & Lombard Sts. Wilmington, Del.	1	Steel pipes fabricated, pipe ells, pipe loops, pressure headers, overflow headers, all fabricated	102,651.00	2168 $\frac{1}{2}$
The Fulton Sylphon Co.	2600 Cumberland Ave. Knoxville 4, Tenn.	8	Bellow assemblies	106,933.50	2365 $\frac{1}{2}$
Marion Mach. Foundry & Supply Co.	Marion, Ind.	1	Nozzle assemblies	142,625.20	2551 $\frac{1}{2}$
Du Pont	Wilmington Shops Wilmington, Delaware	1	Valve assemblies	226,525.00	2718 $\frac{1}{2}$

<u>Vendor</u>	<u>Address</u>	<u>Supplier Selected</u>	<u>Material</u>	<u>Amount</u>	<u>APG No.</u>
DuPont	Wilmington Shops Maryland Ave. & South St. Wilmington, Del.	8	Rod assemblies	109,460.00	2872 $\frac{1}{2}$
Allegheny Ludlum Steel Corp.	Philadelphia, Pa.	6	Steel	165,493.52	3160 $\frac{1}{2}$
Blaw Knox Div. Blaw Knox Co.	Philadelphia, Pa.	1	Steel	122,868.00	3243 $\frac{1}{2}$
Aloc Products Div.	New York, N. Y.	8	Tie Straps	106,085.58	3534 $\frac{1}{2}$
Allegheny Ludlum Steel Corp.	Philadelphia, Pa.	5	Stainless steel	133,969.62	3733 $\frac{1}{2}$
Carpenter Steel	Roselle, W. J.	5	Stainless welded tubing	206,314.29	3744 $\frac{1}{2}$
C. H. Schenck & Co.	643 R. R. St. Springdale, Pa.	5	Machining of slugs	228,250.00	4018 $\frac{1}{2}$
McKinney Tool & Mfg. Co.	1688 Arabella Road Cleveland, Ohio	5	Machining of slugs	123,000.00	4021 $\frac{1}{2}$
Quality Hardware & Machine Corp.	5812 Ravenswood Ave. Chicago, Ill.	8	Casing Slugs	218,798.06	4040 $\frac{1}{2}$
Aluminum Co. of America	123 S. Broad St. Philadelphia, Pa.	8	Aluminum tubing	101,282.50	4061 $\frac{1}{2}$

<u>Vendor</u>	<u>Address</u>	(***) Reason Supplier Selected	<u>Material</u>	<u>Amount</u>	<u>RPG No.</u>
DuPont	Wilmington Shops Maryland Ave. & South Sta. Wilmington, Del.	8	Elevator cabs	\$ 108,300.00	4350 <sup>1</sup> <sub>2</sub>
Aluminum Co. of America	123 S. Broad St. Philadelphia, Pa.	5	Lead dummies	117,893.46	4742 <sup>1</sup> <sub>2</sub>

Total value of half number purchase orders of \$100,000.00 or more each - \$36,820,083.69

Total value of all half number purchase orders of less than \$100,000.00  
each - 27,624,502.87\*\*

Total value of all half number purchase orders issued - \$64,444,586.56

\* Fixed Fee - Does not include cost.

\*\* These figures are based on the most accurate information available at this time and do not include results of renegotiations.

\*\*\* Legend:

1. Lowest Price
2. Early Delivery
3. Better Quality
4. Required Design
5. Only Available Source Known
6. Price Agreement
7. As per Contract
8. Miscellaneous

DIRECT GOVERNMENT CONTRACTS

<u>CONTRACT NUMBER</u>	<u>FIRM</u>	<u>TYPE OF CONTRACT OR MATERIAL</u>	<u>COST</u>	<u>REASON FOR SELECTION OF CONTRACTOR</u>
W 14-108-eng-31	Pacific Power & Light Co.	Service; furnish electric power; and lease of facilities.	37,081.72	Competition impracticable; contractor public utility serving this area, only source available.
W 14-108-eng-32	Pacific Mutual Door Co.	Supply - furnish plywood	15,146.41	Allocation by Central Procuring Agency for Lumber, Office - Chief of Engineers.
W 14-108-eng-36	St. Johns Welders Supplies	Supply - furnish work gloves.	9,187.17	Two bids received after solicitation. Award split this contractor and contractor under W 14-108-eng-37 in order to meet project delivery dates.
W 14-108-eng-37	Harry R. Hibbs Co.	Supply - furnish work gloves.	11,373.12	Two bids received after solicitation. Award split this contractor and contractor under W 14-108-eng-36 in order to meet project delivery dates.
W 35-058-eng-47	The American Tobacco Co.	Supply - furnish cigarettes.	49,012.23	Allocation - Lucky Strike brand, which were sold to project employees thru project facilities.
W 35-058-eng-48	R. J. Reynolds Tobacco Co.	Supply - furnish cigarettes	35,257.57	Allocation - Camel brand, which were sold to project employees thru project facilities

<u>CONTRACT NUMBER</u>	<u>FIRM</u>	<u>TYPE OF CONTRACT OR MATERIAL.</u>	<u>COST</u>	<u>REASON FOR SELECTION OF CONTRACTOR</u>
W 35-058-eng-49	The American Tobacco Co.	Supply - furnish cigarettes	43,246.08	Allocation - Lucky Strike brand, which were sold to project employees thru project facilities.
W 35-058-eng-50	R. J. Reynolds Tobacco Co.	Supply - furnish cigarettes	6,054.45	Allocation - Camel brand, which were sold to project employees thru project facilities.
W 35-058-eng-51	The American Tobacco Co.	Supply - furnish cigarettes.	28,830.72	Allocation - Lasky Strike brand, which were sold to project employees thru project facilities.
W 35-058-eng-52	R. J. Reynolds Tobacco Co.	Supply - furnish cigarettes.	7,207.68	Allocation - Camel brand, which were sold to project employees thru project facilities.
W 38-094-eng-60	Prefabrication Engineering Co.	Rehabilitating electric wiring systems in prefabricated houses in Richland Village.	71,435.97	Specialized qualifications - contract for expert services.
W 38-094-eng-62	Federal Prison Industries McNeil Island	Salvage Services	10,440.00	Productive utilization of inmate labor available after harvest season.
W 38-094-eng-61	S.P. Michelson Co.	Supply - furnish lug boxes for fruit and vegetables.	5,005.35	Only bid after solicitation.

<u>CONTRACT NUMBER</u>	<u>FIRM</u>	<u>TYPE OF CONTRACT OR MATERIAL</u>	<u>COST</u>	<u>REASON FOR SELECTION OF CONTRACTOR</u>
W 42-069-eng-60	J. G. Ungerect	Construction of area telephone building.	9,709.95	Competitive bidding - lowest.
W 42-069-eng-61	Yakima Tent & Awning Co.	Supply - furnish canvas shoe covers.	7,160.00	Lowest of two bids received.
W 42-069-eng-62	McAtee & Heath and Curtis Gravel Co.	Drainage Corrections and surfacing of streets.	100,000.00	Lowest bid
W 7401 eng-153	National Homes Corp.	Supply - 2 Sample houses as models.	5,603.62	Negotiated at Oak Ridge. Order signed by Col. Maradan
W 7407 eng-51	Business Supply Co.	(Contract written by New York Office of Manhattan District)	22,860.00	
W 7407 eng-80	Stewart Warner Corp.	Supply - furnish automotive heaters.	23,815.00	Only available source meeting project requirements as to type and delivery.
✓ W 7407 eng-84	Southern Iron & Equipment Company	Supply - furnish railroad locomotives.	47,200.00	Lowest bidder.
W 7407 eng-85	Wesix Electric Heater Co.	Supply - furnish electric heaters.	228,445.35	Only bid received.
W 7407 eng-86	Maxwell Petroleum Co.	Supply - furnish lubricating oil.	8,904.00	Lowest of three (3) bids solicited.
W 7407 eng-87	Mannell & Sherrell	Supply - furnish work gloves.	5,026.86	Best delivery time.

<u>CONTRACT NUMBER</u>	<u>FIRM</u>	<u>TYPE OF CONTRACT OR MATERIAL</u>	<u>COST</u>	<u>REASON FOR SELECTION OF CONTRACTOR</u>
W 7407 eng-88	General Petroleum Corp. of California	Supply - furnish lubricating oil.	8,681.40	Lowest of three (3) bids solicited.
W 7409 eng-77	L.B.Smith Inc.	Services - re-modeling or re-converting Government owned dump trucks	10,815.00	Office, Chief of Engineers entered into a contract for general overhauling, reconverting, and reconditioning of Government-owned construction equipment under Corps of Engineers' jurisdiction during the war.
W 7409 eng-79	Utility Trailer Co.	Supply - furnish automotive truck trailers.	24,432.00	Lowest bid and best delivery.
W 7409 eng-80	Graybar Electric Co.	Supply - furnish electric cable	8,157.21	Only available source meeting delivery required.
W 7409 eng-81	Graybar Electric Co.	Supply - furnish electric cable.	13,886.14	Only available source meeting delivery required.
W 7409 eng-82	The Sherwin-Williams Co.	Supply - furnish spray materials for orchards, vineyards, etc.	10,229.32	Lowest of four (4) bids solicited.
W 7409 eng-83	The Shaw Walker Co.	Supply - furnish file cabinets.	15,250.00	Lowest of four (4) bids solicited.
W 7409 eng-85	Transportation Equipment Co.	Supply - furnish semi-trailers (truck)	45,520.50	Lowest bidder.

<u>CONTRACT NUMBER</u>	<u>FIRM</u>	<u>TYPE OF CONTRACT OR MATERIAL</u>	<u>COST</u>	<u>REASON FOR SELECTION OF CONTRACTOR</u>
W 7409 eng-86	R. J. Reynolds Tobacco Co.	Supply - furnish cigarettes.	108,855.97	Allocation - Camel brand, which were sold to project employees through project facilities.
W 7409 eng-87	Ford Motor Co.	Supply - furnish automobile parts.	16,910.50	Only available source capable of supplying as required, due to priority and allocation restriction.
W 7412 eng-76	Dulian Steel Products Inc.	Supply - furnish trucks and trailers	80,000.00	Only available source for immediate delivery.
W 7412 eng-78	Chas. G. Stott & Co., Inc.	Supply - furnish paper cups.	71,318.32	Lowest of five (5) bids solicited.
W 7412 eng-79	Defense Plant Corporation	Supply - furnish steel scaffolding	51,082.98	Transfer of excess material with re- imbursement from Government-owned corporation.
W 7412 eng-81	Jenkins Motor Co.	Supply - furnish tractor-trucks.	20,350.00	Only available source for immediate delivery
W 7412 eng-82	Harper Mags., Inc.	Supply - furnish sound equipment.	26,895.24	Contractor represented the only type of equipment acceptable to Prime Contractor on IBM project. Required design in accordance with engineer specifications.
W 7412 eng 85	Oscar Lucks Co.	Supply - furnish bakery equipment	6,052.71	Only available source acceptable to the field.
W 7412 eng-86	Record Industrial Co.	Supply - furnish work gloves.	6,922.67	Lowest bid received.

<u>CONTRACT NUMBER</u>	<u>FIRM</u>	<u>TYPE OF CONTRACT OR MATERIAL</u>	<u>COST</u>	<u>REASON FOR SELECTION OF CONTRACTOR</u>
W 7412 eng-87	Defense Plant Corporation	Supply - furnish welding machines.	5,742.80	Transfer of excess material with reimbursement from Government-owned corporation.
W 7412 eng-88	The American Tobacco Co.	Supply - furnish cigarettes.	138,747.84	Allocation - Lucky Strike brand, which were sold to project employees thru project facilities.
W 7418 eng-75	Smith, Hoffman & Wright	Construction of Columbia Prison Camp.	144,277.97	Negotiated - best available source.
W 7418 eng-76	Federal Prison Industries	Maintain and harvest crops.		Army provided complete Prison Camp (see above) and furnished facilities for same as well as harvesting equipment. F.P.I. received returns from sale of produce.
W 7418 eng-77	Prefabrication Engineering Company.	Supply prefabricated houses on already constructed foundation.	3,637,811.13	Lowest bid.
W 7418 eng-92	Benton Rural Electric Association	Service - furnish electricity to Columbia Prison Camp.	5,480.55	Competition impracticable; contractor public utility serving this area; only source available.
W 7418 eng-79	West Disinfecting Co.	Supply - furnish disinfectant	5,358.82	Lowest bidder meeting specifications.
W 7418 eng-80	Standard Oil Co. of California	Supply - furnish fog oil	8,353.86	Lowest of three (3) bids solicited.

<u>CONTRACT NUMBER</u>	<u>FIRM</u>	<u>TYPE OF CONTRACT OR MATERIAL</u>	<u>COST</u>	<u>REASON FOR SELECTION OF CONTRACTOR</u>
W 7418 eng-81	Pilot Butte Transit Line	Supply - furnish semi-trailer and truck unit.	6,567.00	Only available source for imme- diate delivery
W 7418 eng-84	Rogue Valley	Supply - furnish buses and auto- tractors.	27,860.00	Only available source for imme- diate delivery.
W 7418 eng-85	J. B. String- fellow	Supply - furnish truck-tractors.	11,542.00	Only available source for imme- diate delivery.
W 7418 eng-86	Trailer Trans- port	Services - Trans- portation of house trailers.	170,659.30	Negotiated - best available source
W 7418 eng-88	Baily H. Patterson	Supply - furnish truck-tractors.	13,500.00	Only available source for imme- diate delivery.
W 7418 eng-91	Prefabrication Engineering Company	Supply - furnish prefabricated houses.	1,489,839.00	Lowest bid.
W 7418 eng-93	Smith, Hoffman & Wright	Construction - additions to camp.	42,506.19	Negotiated best available source.
W 7412 eng-1	E.I.du Pont de Nemours & Company	CPAFF - basic contract for HEW project.	197,618,177.95	Negotiated - best source
W 42-069-eng-56	A.A.Durand	Telephone Grounding Service Well.	3,017.20	Best available source

NOTE: All supply contracts contained the provision that prices were not in excess of existing OPA prices.

All contracts for automotive equipment (trucks, trailers, buses, etc.) were generally purchased only after a source had been found, Office of Defense Transportation giving the necessary release or authorization of the sale.

All contracts were lump sum with the exception of; the Prime Contract, which was Fixed Fee; Power contracts, which were billed on a monthly basis as per contractual agreement; expert service and contracts.

SUMMARY OF SUBCONTRACTS

<u>Type of Contract</u>	<u>Firm's Name</u>	<u>Home Office</u>	<u>Class of Work</u>	<u>Cost</u>	<u>RPG NO.</u>
L. S.	A. A. Durand & Son	Walla Walla, Wn.	Drilling of Wells	\$ 30,844.20	401
L.S.	G. A. Pehrson	Spokane, Wash.	Arch. Engr. Services	581, 012.13	402
✓ L.S.	Guy F. Atkinson Co.	San Francisco, Calif.	Railroad Constr.	3,035,090.18	403
✓ L.S.	Twaits-Morrison-Knudsen	Los Angeles, Calif.	Housing	2,363,883.08	404
L.S.	Northwest Testing Labs.	Seattle, Wash.	River Water Analysis	750.00	405
L.S.	St. Dept. of Highways	Olympia, Wash.	Aggreg. Test Pits	2,719.08	406
L.S.	Myers Bros.- H. M. Ball & Sons	Los Angeles, Calif.	Excav. & Rd. Constr.	3,983,072.61	407
C.P.F.F.	Newberry-Chandler-Lord	Los Angeles, Calif.	Electrical Work (Amount of fixed fee only)	173,500.00*	408
✗ L.S.	Twaits-Morrison-Knudsen	Los Angeles, Calif.	Utilities	478,583.07	409
L.S.	Hanford Concrete Contractors	Winona, Minn.	Ready-Mix Concrete	5,500,159.62	410
C.P.F.F.	Hankee-James Zahniser & Warren	St. Paul, Minn.	Piping Work	302,000.00	411
L.S.	Sullivan Valve & Engr. Co.	Butte, Mont.	Camp Area Boilers	92,641.91	412
L.S.	A. A. Durand & Son	Walla Walla, Wn.	Wells	4,450.00	413

SUMMARY OF SUBCONTRACTS

<u>Type of Contract</u>	<u>Firm's Name</u>	<u>Home Office</u>	<u>Class of Work</u>	<u>Cost</u>	<u>RPG NO.</u>
L.S.	H. W. Dunham Labs.	Seattle, Wn.	Test of Materials	\$ 80,616.01	414
L.S.	N. T. Batcheller	Seattle, Wn.	Expedite Design and Procurement (Engr. Services)	17,439.88	415
L.S.	A. A. Durand & Son	Walla Walla, Wn.	Drilling of Wells	291,064.22	416
L.S.	Curtis Gravel Co.	Spokane, Wn.	Furnishing of Aggr.	201,743.56	4321
L.S.	Smith, Hoffman & Wright	Portland, Oregon	Housing	18,715,944.62*	4322
L.S.	Chas. R. Brewer & Co.	Seattle, Wn.	Insulation	232,662.00	4323
L.S.	American Pipe & Constr. Co.	Los Angeles, Calif.	Reinforced Concrete Pipe	1,594,292.02	4324
L.S.	Brunswick-Balke-Collender	Chicago, Ill.	Pool, Snooker & Billiard Tables	17,183.72	4325
L.S.	California Water-proofing Co.	Los Angeles, Calif.	Roofing Subcontract #1	12,011.64	4327
L.S.	McNamee & Co.	Seattle, Wn.	Erection of Boilers	17,452.35	4328
L.S.	Wm. Vail	Portland, Oregon	Built-up Roofing	203,722.35	4332
L.S.	Fentren Steel Works	Seattle, Wn.	Service Stations	6,102.17	4333

Type of Contract	Firm's Name	Home Office	Class of Work	Cost	HPC No.
L.S.	Guarin Bros.	San Francisco, Cal.	Excav., Road Constr. & Railroad Widening	\$1,741,152.81	4334
L.S.	National Gunite Contracting Co.	Washington, D. C.	Gunita Reservoirs	310,717.96*	4335
L.S.	G. H. Jessen & J. C. Wright	Salt Lake City, Utah	Concrete Block	278,469.97	4336
L.S.	Guy F. Atkinson Co.	San Francisco, Cal.	Channel Excavation	536,846.09	4337
L.S.	Guy F. Atkinson Co.	San Francisco, Cal.	Railroad Subcon. #2	1,846,269.95	4338
L.S.	Hall & Simpson	Berkaley, Cal.	Mauling of Aggreg.	126,025.65*	4341
L.S.	Smith-Hoffman & Wright	Portland, Oregon	Utilities	1,854,405.73*	4344
L.S.	H. R. Parsons Tile Co.	Spokane, Wn.	Asphalt Tile & Linoleum	12,089.07	4354
L.S.	General Electric X-Ray Corp.	Seattle, Wn.	Installation of X-Ray Equip.	549.91	4355
L.S.	DeWitt C. Griffin & Associates	Seattle, Wn.	Engineering Services	24,000.00	29304
L.S.	Fryer-Knowles	Seattle, Wn.	Acid Proof Mastic Finish	13,169.32	29312
L.S.	U. S. Rubber Co.	Philadelphia, Pa.	Repairs to Rubber Lined Equipment	6,701.58*	29328
L.S.	Alphons-Custodis Chimney Constr. Co.	Chicago, Ill.	Installation of Clean-out door	650.00	29331

Type of Contract	Firm's Name	Home Office	Class of Work	Cost	RPG No.
L.S.	Pacific Power & Light Co.	Portland, Ore.	Operation of Hanford Substation	\$ 13,787.97	29332
L.S.	Pittsburgh-Des Moines Steel Co.	New York, N. Y.	Steel Storage Tank	14,087.61	503
C.P.R.F.	Olympic Commissary Co.	Chicago, Ill.	Commissary Operations	284,000.00	633
L.S.	Naughton Elevator Co.	Philadelphia, Pa.	Freight Elevators	38,087.41	543
L.S.	Hannay Water Collector Corp.	Louisville, Ky.	Water Investigation	16,202.00	573
L.S.	International Water Supply	Seattle, Wash.	Water Investigation	36,306.09	683
L.S.	General Electric X-Ray Co.	Chicago, Ill.	X-Ray Equipment	6,911.69	693
L.S.	Westinghouse Elec. & Mfg. Co.	Philadelphia, Pa.	Photofluoroscopic Equipment	670.00*	633
L.S.	Chicago Bridge & Iron Co.	Philadelphia, Pa.	Stov. Steel Storage Tanks	11,475.00	783
L.S.	Tate-Jones & Co., Inc.	Latrobe, Pa.	Heat Treating Furnaces	44,180.27	1703
L.S.	Kust Engineering Co.	Pittsburgh, Pa.	200' Chimneys	93,184.36	1733
L.S.	Clinton Bridge Works	Clinton, Iowa	Structural Steel	1,525,824.97	2413

Type of Contract	Firm's Name	Home Office	Class of Work	Cost	HFQ No.
L.S.	Babcock & Wilcox Co.	Philadelphia, Pa.	Boilers	\$161,442.96	258 $\frac{1}{2}$
L.S.	Erie City Iron Works	Erie, Pa.	Boilers	632,806.00*	306 $\frac{1}{2}$
L.S.	Combustion Engr. Co. New York, N.Y.		Boilers	422,930.26	307 $\frac{1}{2}$
L.S.	Alphonse Custodis Chimney Constr. Co. New York, N.Y.		Radial Brick Chimney	10,785.57	434 $\frac{1}{2}$
L.S.	Alphonse Custodis Chimney Constr. Co. New York, N.Y.		200' Chimney-Concrete	16,685.00	488 $\frac{1}{2}$
L.S.	National Gunita Constr. Co.	Washington, D.C.	Concrete Tank	10,620.07	489 $\frac{1}{2}$
L.S.	W. E. Caldwell Co. Louisville, Ky.		Elevated Wood Tanks	49,125.41	565 $\frac{1}{2}$
L.S.	Rust Engineering Co. Pittsburgh, Pa.		Concrete Chimneys	188,214.47	566 $\frac{1}{2}$
L.S.	W. E. Caldwell Co. Louisville, Ky.		Elevated Wood Tanks	69,352.54	567 $\frac{1}{2}$
L.S.	Rust Engineering Co. Pittsburgh, Pa.		Concrete Chimneys	87,004.94	567 $\frac{1}{2}$
L.S.	Chicago Bridge & Iron Co.	Philadelphia, Pa.	Elev. Steel Storage Tanks	241,171.43	637 $\frac{1}{2}$
L.S.	Link-Belt Co.	Philadelphia, Pa.	Coal Handling Systems	200,290.42	658 $\frac{1}{2}$
L.S.	Link-Belt Co.	Philadelphia, Pa.	Coal Handling Systems	399,024.65	659 $\frac{1}{2}$
L.S.	Stephenson-Adamsen Mfg. Co.	New York, N.Y.	Coal Handling Systems	34,397.80	708 $\frac{1}{2}$
L.S.	Philadelphia Iron Works	Philadelphia, Pa.	Boiler Broachings	104,131.16	808 $\frac{1}{2}$

Type of Contract	Firm's Name	Home Office	Class of Work	Cost	EMG No.
L.S.	Chicago Bridge & Iron Co.	Philadelphia, Pa.	Process water storage tanks	\$1,245,905.35*	823½
L.S.	Grinnell Co., Inc. Providence, R. I.		Sprinkler system	55,366.59	889½
L.S.	W. E. Caldwell Co. Louisville, Ky.		Elevated wood tanks	42,252.20	938½
L.S.	Connery Constr. Co. Philadelphia, Pa.		Forced Draft Ducts	29,771.72	1170½
L.S.	Baughton Elevator Co. Philadelphia, Pa. Co.		Elevators-100 Area	322,115.72	1245½
L.S.	Morrison-Bechtel- Boise, Idaho McCone		Composite Tanks	5,690,035.42	1451½
L.S.	Asbestos Supply Co. Seattle, Wash.		Thermal Insulation	861,996.34	1473½
L.S.	National Gunit Contracting Co.	Washington, D.C.	Pre-Stressed Concrete Tanks	60,587.37	1588½
L.S.	Baughton Elevator Co. Philadelphia, Pa.		Electric Elevators	30,885.91*	1678½
L.S.	Alphonse Custodis New York, N. Y. Chim. Constr. Co.		Concrete Chimneys	29,211.69	1862½
L.S.	Triplette & Barton, Burbank, Calif. Inc.		I-Key Inspection Composite Tanks	325,061.74	2115½
L.S.	National Gunit Contracting Co.	Washington, D. C.	Catch & Settling Tanks	78,810.62*	3564½
L.S.	E.F. Haussman Co. Cleveland, Ohio		S/S Enclosures	9,138.05	3778½
L.S.	Clinton Bridge Works Clinton, Iowa		Steel Tower	25,349.63	4653½
L.S.	Baughton Elevator Co. Philadelphia, Pa.		Elmo. Hoist	10,736.21	4754½
L.S.	Craver Tank & Mfg. Co. New York, N.Y.		Condensers	8,638.51	5286½

\*Complete Amount to Date Only.

\$5,992,818.35

Sheet No. 14 of 14 sheets

**H. E. W. GOVERNMENT TRANSFERS**

In receiving materials, supplies and equipment from other projects and other Government Agencies, beginning April 1943 to July 1944, figures are given as approximate values of such received each month until July 1944.

April 1943	-	\$ 250,000.00
May	"	265,000.00
June	"	300,000.00
July	"	650,000.00
August	"	850,000.00
Seyt.	"	1,200,000.00
Oct.	"	1,700,000.00
Nov.	"	2,000,000.00
Dec.	"	2,200,000.00
Jan. 1944	-	2,000,000.00
Feb.	"	1,250,000.00
March	"	1,000,000.00
April	"	700,000.00
May	"	400,000.00
June	"	250,000.00

The approximate number of LCL (less than carload) shipments on Government transfers received from April 1943 until July 1944, each month as follows:

April 1943	-	28
May	"	32
June	"	32
July	"	68
August	"	88
Sept.	"	150
Oct.	"	210
Nov.	"	215
Dec.	"	120
Jan. 1944	-	120
Feb.	"	85
March	"	90
April	"	88
May	"	110
June	"	48

Approx. Grand Total 1484

The approximate number of carload lot shipments on Government transfers received from April 1943 until July 1944, each month as follows:

April 1943	-	10
May "	-	14
June "	-	14
July "	-	20
August "	-	27
Sept.	"	50
Oct.	"	70
Nov.	"	72
Dec.	"	55
Jan. 1944	-	35
Feb.	"	27
March	"	35
April	"	50
May	"	58
June	"	<u>22</u>

Approx. Grand Total 502

MAJOR EQUIPMENT INVENTORY

EQUIPMENT	GOVERNMENT OWNED	GOVERNMENT RENTED	SUB CONTRACTOR CONTROLLED	TOTAL
Sedans	549			549
Buses	903	2		905
Station Wagons	95			95
Carryalls	68			68
Panels	26		8	44
Pickups	767	2	138	907
Motorcycles	26			26
Jesps	38			38
Military Cars	101			101
Fire Trucks	29			29
Ambulances	20			20
Scooters	8			8
Concrete Hoppers	41			41
Batch Plants & Bins	9			9
Retread Pavers	1			1
Tar Kettles	31			31
Rotary Brooms	4			4
Boilers	242		12	242
Lead Lugger Buckets	20			20
Concrete Buckets	85			85
Air Compressors	201		51	252
Conveyors	10	1		11
Crushers	1		25	26
Engines	49			49
Graders	57	4	38	99
Loaders	4		2	6
Mixers, concrete (transit mix)	134	4	8	147
Pit & Quarry Plants	1			1
Pumperettes	18			18
Snow Plows	18			18
Pumping units	689	8	98	786
Rippers, Rooters	19		18	38
Rollers	42		24	66
Scrapers	58	1	71	110
Spreaders	11			11
Tractors - crawlers	279	36	122	437
Trailers	161			161
Trenching machines	1		1	2
Dump Trucks	358		417	775
Flat Trucks	948	42	156	1146
Tank & Grease trucks	36	8	103	270
Tractor & Trailers	216	13	11	240
Refrigerator Trucks	13			13
Vibrators	314			314
Athay Wagons	141			141

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MAJOR EQUIPMENT INVENTORY  
(cont. -2-)

EQUIPMENT	GOVERNMENT OWNED	GOVERNMENT RENTED	SUB-CONTRACTOR CONTROLLED	TOTAL
Welders	619		119	738
Light Plants	450		164	614
Low Boys	51		6	37
Lumber Carriers	12	3	7	22
Farm Implements	102			102
Earth Augers	15			15
Chlorinators & X-Ray	31	1		32
Boats	24	3		27
Tanks	15			15
Turnapulls			32	32
Oil Distributors - road			5	5
Mixing machines - road			4	4
Euclids, Koehring tractor trucks	32		22	54

TRAFFIC

EQUIPMENT	GOVERNMENT OWNED	GOVERNMENT RENTED	SUB-CONTRACTOR CONTROLLED	TOTAL
Locomotives	37	5	2	44
Flat Cars	41	16	20	77
Gondolas, bottom dumps & hoppers	249	123	12	384
Inspection	2			2
Push cars & motor cars	73			73
Passenger (business)	1			1
Caboses	6	2		8
Oil Tankers	13	1		14
Tool cars	2			2

CRANE AND RIGGING

EQUIPMENT	GOVERNMENT OWNED	GOVERNMENT RENTED	SUB-CONTRACTOR CONTROLLED	TOTAL
Clam buckets	42			42
Drag buckets	58	1		59
Cranes	156	24	62	241
w/Clam buckets	29			29
w/Drag buckets	41			41
Derricks	3	1		4
Hoisting units	72			72
Locomotive cranes	5			5
Pile Hammers	8	6		14

GRAND TOTAL - - - - - 9076 - - - - - 301 - - - - - 1792 - - - - - 11,169

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MAJOR EQUIPMENT INVENTORY  
(cont. -3-)

A total of 3,676 government owned small tools, consisting of saws, electric drills, grinders, metal shop tools and air tools were used in the construction shops.

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## EXHIBIT 5

CUMULATIVE INTERVIEWS AND HIRES BY REGION AS OF 1/13/45

REGION	INTERVIEWS				TOTAL INT.	HIRES					TOTAL HIRES
	DU PONT	H.C.L.	H.J.Z.W.	OLY. COMM.		DU PONT	H.C.L.	S.H.W.	H.J.Z.W.	OPERATIONS	
I	3689		68		3757	909			31	19	959
II	5849	71	95		6015	2051	59		52	9	2201
III	11018	125	25		11168	4125	106		25	3	4259
IV	3000		66		3066	904			30	17	951
V	4209		46		4255	1516			9	4	1529
VI	31662	356	142		32160	10822	266		92	40	11220
VII	10045	91	218		10354	2830	41		80	29	2980
VIII	19244	273	76		19593	5695	195	15	36	13	8954
IX	50492	236	306		51034	18598	167	32	159	78	19034
X	30751	657	384		31792	11543	321	24	159	109	12156
XI	20455	116	38		20609	6932	110	9	32	55	7138
XII	65376	254	1263	229	67822	21626	495	55	397	208	132
CANADA	415				415	13					13
TOTAL	256205	2879	2727	229	262040	90594	1760	135	1102	584	132
											94307

## EXHIBIT 5

\* Includes S.H.W. and Operations, since Int. on these programs were not reported separately.

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**COSTS % FROM BEGINNING OF RECRUITMENT THROUGH  
JULY, 1944.**

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1. Salaries and Wages:	25.28%	\$ 11.53
2. Wilmington Office Expenses:	0.57%	.28
3. Transportation & Travel (Field Men)	12.93%	5.91
4. Field Medical Examinations:	1.22%	.56
5. Advertising - Newspaper & Radio:	21.33%	9.75
6. Telephone & Telegraphs	3.95%	2.72
7. Teletype	0.51%	.14
8. Rent and Electric Current - Gray Bldg.	0.51%	.14
9. Rent - Field Offices & Equipments	0.03%	.01
10. Postage:	0.52%	.15
11. Freight & Express:	0.24%	.11
12. Printing & Office Supplies:	0.48%	.23
13. Paseo Bus Services:	1.70%	.76
14. Paseo Bunkhouse Operation	1.94%	.89
15. Meals Served Recruits in Paseo:	1.86%	.85
16. Personnel Inter-Plant Transfer Expense:	0.81%	.36
17. Miscellaneous	<u>0.01%</u>	<u>.00</u>
18. Recruitment Operational Costs:	74.66%	34.12
19. Losses on T & S Advances:	<u>25.54%</u>	<u>11.58</u>
	100.00%	\$ 45.70

Average Cost per:

Interview	\$12.33
Hire	35.80
Arrival	45.70

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COSTS OF RECRUITMENT - FINAL AS OF  
JANUARY 1948

1. Local Payrolls	\$ 752,122.77
2. Wilmington Payroll Expenses:	75,232.41
3. Wilmington Office Expenses:	15,315.77
4. Personal Expense Accounts:	695,365.36
5. Medical Examinations:	30,872.60
6. Advertising:	938,699.25
7. Telephone (Gray Bldg.):	63,586.44
8. Telegraph (Gray Bldg.):	67,685.10
9. Teletype:	8,914.50
10. Rent and Utilities:	11,151.87
11. Rent - Field Offices:	1,448.69
12. Postage:	8,550.44
13. Freight & Express:	6,382.90
14. Printing & Office Supplies:	14,279.28
15. Passes Bus Services:	55,950.14
16. Passes Bulkhouse Services:	63,638.12
17. Passes Meals to Recruits:	59,289.86
18. Inter-Plant Transfer Personnel:	5,947.84
19. Miscellaneous:	<u>294.01</u>
Total:	\$2,874,424.79
20. Losses on T & S Advances:	<u>1,013,413.57</u>
	3,887,838.36
Accounts Rec'd (Sub-Contractors)	<u>6,682.00</u>
Net Expenditures:	3,881,255.76
Average Cost per:	
Interview	\$14.50
Hire	41.10
Arrival	52.50

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**CRITICAL CRAFTS**  
**100-B AREA**  
 PROJECT 3536

WEEK ENDING	LABORERS			CARPENTERS			REINF. ROD SETTERS			RIGGERS			PIPEFITTERS			PIPE WELDERS			ELECTRICIANS			MILLWRIGHTS			MWT. WELDERS		
	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT
12/10/45	575	500	75	144	130	14	100	94	6	70	70	—	30	18	12	8	5	—	50	50	—	80	15	15	0	0	0
12/25/45	725	750	A1	870	670	—	114	104	10	70	70	—	30	30	—	3	3	—	50	50	—	40	20	20	5	5	—
1/1/46	980	950	30	1100	1100	—	200	190	10	70	70	—	70	70	—	5	5	—	50	50	—	50	50	50	5	5	—
1/8/46	900	900	—	1100	1000	100	200	180	100	70	70	—	70	70	—	5	5	—	50	50	—	60	50	50	5	5	—
1/15/46	1150	900	250	1200	1000	200	200	120	180	70	70	—	10	10	—	0	0	—	120	120	—	70	20	20	7	7	—
1/22/46	1450	950	700	1300	1000	300	500	100	300	70	70	—	120	120	—	10	10	—	120	120	—	60	50	50	5	5	—
1/29/46	1450	112	950	1300	1200	100	200	120	200	70	70	—	180	110	20	10	10	—	180	110	20	60	50	50	5	5	—
2/5/46	1450	500	950	1300	1200	100	200	140	200	70	70	—	200	170	20	10	10	—	200	130	20	60	50	50	5	5	—
2/12/46	1450	500	950	1300	1100	200	100	140	200	70	70	—	200	170	20	10	10	—	200	130	20	60	50	50	5	5	—
2/19/46	1450	500	950	1300	1100	200	100	140	200	70	70	—	200	170	20	10	10	—	200	130	20	60	50	50	5	5	—
2/26/46	1000	600	400	1500	1000	500	250	140	110	112	112	—	220	190	120	10	10	—	220	170	120	100	90	90	5	5	—
3/5/46	1100	550	500	1500	1000	500	220	140	80	120	120	—	200	200	—	20	20	—	200	180	120	100	90	90	5	5	—
3/12/46	1100	500	500	1300	1100	200	100	140	200	70	70	—	200	170	20	10	10	—	200	130	20	60	50	50	5	5	—
3/19/46	1100	500	500	1300	1100	200	100	140	200	70	70	—	200	170	20	10	10	—	200	130	20	60	50	50	5	5	—
3/26/46	1100	625	675	1300	1000	150	100	160	160	10	125	125	—	200	200	—	20	12	—	170	110	80	70	70	70	—	
4/1/46	1050	500	100	1200	900	100	100	100	100	—	125	125	—	240	220	—	20	10	—	200	120	170	70	70	70	—	
4/8/46	900	700	200	800	500	200	—	100	100	—	110	110	—	260	260	—	20	20	—	200	100	200	70	70	70	—	
4/15/46	800	600	150	700	700	—	20	20	—	100	100	—	270	270	—	20	20	—	200	120	200	50	50	50	—		
4/22/46	700	525	175	800	800	—	50	50	—	100	100	—	300	300	—	20	20	—	200	120	190	50	50	50	—		
4/29/46	700	600	100	400	400	100	40	40	—	100	100	—	320	320	—	20	20	—	200	120	200	120	120	120	—		
5/6/46	700	600	100	400	400	100	40	40	—	125	125	—	320	320	—	20	20	—	200	120	190	120	120	120	—		
5/13/46	700	600	100	300	300	100	20	20	—	125	125	—	320	320	—	20	17	40	270	120	120	50	50	50	—		
5/20/46	500	500	—	270	270	—	20	20	—	125	125	—	320	320	—	20	20	—	270	220	120	120	120	120	—		
5/27/46	500	500	—	270	270	—	20	20	—	125	125	—	320	320	—	20	20	—	270	220	120	120	120	120	—		
6/3/46	450	450	—	270	270	—	20	20	—	125	125	—	320	320	—	20	20	—	270	220	120	120	120	120	—		
6/10/46	400	400	—	200	100	80	15	15	—	100	100	—	270	270	—	20	20	—	270	120	120	50	50	50	—		
6/17/46	400	400	—	200	100	80	15	15	—	100	100	—	270	270	—	20	20	—	270	120	120	50	50	50	—		
6/24/46	350	400	A10	200	100	20	15	15	—	100	100	—	300	300	—	20	20	—	300	150	150	50	50	50	—		
7/1/46	350	400	/50	120	120	—	10	10	—	100	95	5	270	270	120	50	50	—	300	120	120	50	50	50	—		
7/8/46	350	120	—	120	120	—	10	2	—	70	70	—	300	300	—	20	20	—	300	120	120	50	50	50	—		
7/15/46	280	250	—	125	125	—	5	5	—	50	50	—	300	300	—	20	20	—	300	120	120	50	50	50	—		
7/22/46	300	300	—	150	150	—	5	5	—	50	50	—	300	300	—	20	20	—	300	120	120	50	50	50	—		
7/29/46	250	230	20	150	150	20	5	5	—	50	50	—	300	300	—	20	20	—	300	120	120	50	50	50	—		
8/5/46	100	200	—	70	70	—	5	5	—	50	50	—	300	300	—	20	15	15	200	100	100	50	50	50	—		
8/12/46	150	150	—	50	50	—	0	0	—	15	15	—	70	70	—	20	20	—	200	100	100	50	50	50	—		
8/19/46	100	100	—	15	15	15	0	0	—	0	0	—	50	50	—	1	1	1	25	20	20	20	20	20	—		
8/26/46	150	150	—	15	15	15	0	0	—	0	0	—	0	0	—	0	0	—	0	0	—	0	0	0	1	1	—
9/2/46	0	0	—	—	0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	0	—

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**CRITICAL CRAFTS**  
**100-D AREA**  
 PROJECT 9536

WEEK ENDING	LABORERS			CARPENTERS			REINF. ROD SETTERS			RIGGERS			PIPEFITTERS			PIPE WELDERS			ELECTRICIANS			MILLWRIGHTS			MWT. WELDERS				
	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT		
12/19/43	90	18	72	100	78	22	35	0	28	8	8	—	16	0	18	2	2	—	8	8	8	0	0	0	—	0	0	—	
12/26/43	80	100	—	80	150	150	—	35	0	35	35	35	—	36	7	29	6	4	—	5	5	5	0	0	0	—	0	0	—
1/2/44	100	100	0	248	248	—	67	11	56	56	56	—	44	17	27	8	1	8	12	8	7	10	8	6	1	1	1	—	
1/9/44	100	78	107	200	100	100	67	11	56	56	56	—	44	17	27	8	1	8	12	8	7	10	8	6	0	0	0	—	
1/16/44	135	80	75	250	80	170	87	11	56	60	46	—	32	15	15	4	1	8	14	6	10	8	8	—	0	0	0	—	
1/23/44	100	78	34	180	90	50	40	18	21	46	36	10	54	10	84	2	2	—	6	4	8	6	6	—	1	1	1	—	
1/30/44	150	90	60	180	120	—	40	30	10	56	42	8	32	18	18	8	2	1	7	7	7	—	8	8	—	1	1	—	
2/6/44	140	100	40	160	140	—	60	40	20	36	26	11	28	27	1	8	2	4	12	12	—	18	6	15	0	0	—		
2/13/44	85	80	5	180	130	—	38	38	—	38	28	18	28	28	—	5	8	—	12	12	—	8	8	1	2	2	—		
2/20/44	152	80	72	200	156	44	64	22	52	60	28	18	26	27	1	4	4	—	24	12	15	6	8	1	2	2	—		
2/27/44	100	80	120	284	186	96	64	22	32	44	28	18	30	26	4	4	8	2	24	12	14	22	8	17	3	3	—		
3/6/44	444	64	380	640	100	—	108	20	80	78	30	30	40	36	12	4	7	22	6	20	24	8	20	8	8	8	3	—	
3/13/44	410	60	280	600	100	517	108	20	80	96	31	95	58	36	—	7	4	8	30	6	20	48	8	40	2	6	6	—	
3/19/44	506	96	430	560	388	184	87	60	87	50	35	15	121	121	—	18	12	1	46	6	40	21	16	6	6	6	—		
3/26/44	610	90	620	620	386	234	87	97	—	50	40	10	92	77	11	8	8	—	62	6	86	81	81	—	8	8	—		
4/2/44	765	150	565	705	461	814	114	114	—	70	62	16	86	66	—	8	1	—	99	6	92	22	22	1	8	8	—		
4/9/44	520	150	370	500	481	48	126	126	—	56	52	8	72	71	8	8	8	1	46	28	17	22	81	2	7	8	—		
4/16/44	520	200	380	500	500	—	125	125	—	56	54	1	72	70	—	8	0	—	47	26	24	23	18	8	7	7	—		
4/23/44	525	200	124	625	625	30	135	135	—	50	50	10	180	128	31	8	8	1	100	25	77	40	15	25	7	7	—		
4/30/44	485	200	284	710	625	96	145	145	—	100	68	82	100	100	—	8	8	8	26	8	97	78	12	66	8	8	—		
5/6/44	780	165	486	920	625	236	180	180	—	98	76	7	148	108	48	8	8	8	106	8	97	39	12	18	8	8	—		
5/13/44	720	428	224	920	625	276	180	180	—	96	95	—	180	140	10	10	8	4	100	26	98	38	12	23	8	8	—		
5/20/44	870	242	322	1000	773	227	210	198	14	100	85	15	180	128	80	8	12	120	26	98	36	12	25	10	10	—			
5/27/44	900	640	280	1100	600	300	210	204	6	100	98	14	200	128	7	20	20	120	44	98	36	11	12	12	—				
6/3/44	900	640	60	1100	930	170	225	200	26	180	90	10	210	210	—	20	20	120	44	98	36	22	21	18	—				
6/10/44	700	860	180	1000	960	68	178	170	8	180	120	—	280	280	—	20	20	120	70	98	36	24	21	18	—				
6/17/44	700	860	180	1000	960	50	175	170	8	180	120	—	280	180	100	28	8	120	70	98	36	24	21	18	—				
6/24/44	700	900	200	800	900	—	150	150	—	180	128	8	180	100	50	28	8	140	90	98	36	24	21	18	—				
7/1/44	850	900	50	1310	960	378	942	150	92	186	126	90	948	108	480	91	28	245	90	98	102	102	92	112	23	23	—		
7/8/44	900	900	—	900	860	80	128	120	18	180	120	—	800	120	370	80	12	22	280	90	100	100	70	50	23	23	—		
7/15/44	865	800	48	770	700	70	80	80	—	100	100	—	400	180	270	60	12	22	280	90	240	90	70	8	23	23	—		
7/22/44	825	780	48	780	780	—	80	80	—	100	100	—	480	181	223	48	15	22	280	100	280	100	60	48	24	1	—		
7/29/44	665	640	26	728	680	46	80	80	—	100	100	—	500	125	340	80	18	22	280	100	280	100	60	48	24	1	—		
8/5/44	740	810	130	625	615	10	50	50	—	120	120	—	700	120	540	70	28	45	310	208	100	100	50	20	20	—			
8/12/44	750	700	50	625	685	—	80	80	30	180	140	10	580	280	300	60	22	280	90	240	90	60	50	20	—				
8/19/44	750	700	50	567	567	—	80	68	18	180	180	—	780	308	282	70	68	27	280	282	8	186	181	55	20	—			
8/26/44	780	680	100	680	500	50	80	70	10	180	180	—	780	543	208	70	86	14	281	281	—	180	180	110	110	—			
8/3/44	800	800	—	400	400	—	70	70	—	100	100	—	780	780	—	70	70	—	270	270	—	110	110	10	18	18	—		
8/10/44	800	800	—	240	340	—	70	70	—	128	128	—	800	780	80	70	70	—	280	280	—	110	100	10	18	18	—		
8/17/44	1000	800	400	300	300	—	48	48	—	100	100	—	780	780	—	74	74	—	225	225	—	90	90	—	16	16	—		

**SECRET**

**CRITICAL CRAFTS**  
**100-D AREA**  
 PROJECT 9536

WEEK ENDING	LABORERS			CARPENTERS			REINF. ROD SETTERS			RIGGERS			PIPEFITTERS			PIPE WELDERS			ELECTRICIANS			MILLWRIGHTS			MWT. WELDERS		
	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT
9/13/44	1	—	—	100	880	220	28	—	—	78	78	—	880	860	—	86	86	20	880	228	—	90	90	—	10	10	—
9/20/44	800	800	—	880	880	—	—	28	28	78	78	—	880	788	116	78	70	16	870	228	48	90	90	—	10	10	—
10/4/44	480	480	—	280	280	—	—	20	20	78	78	—	780	718	64	78	74	1	228	228	—	80	80	—	10	10	—
10/11/44	612	680	/ 138	280	280	—	28	18	8	100	78	26	800	728	68	81	70	11	218	200	18	112	88	80	16	16	—
10/18/44	600	680	/ 80	400	380	20	11	12	—	80	80	—	1000	744	284	100	86	26	188	180	9	80	80	—	20	10	—
10/25/44	688	680	/ 800	318	318	—	30	30	—	100	98	1	800	768	38	81	71	10	192	180	32	97	82	16	16	18	—
11/1/44	800	800	—	400	400	—	18	18	—	80	78	16	1000	900	100	100	89	11	180	182	2	80	78	2	10	10	—
11/8/44	800	628	77	800	800	—	8	8	2	80	78	8	700	788	/ 88	70	70	—	180	148	7	80	80	—	5	5	—
11/15/44	800	280	10	228	228	—	6	6	4	80	88	2	800	448	81	80	81	19	100	100	—	40	40	/ 9	5	5	—
11/22/44	280	280	44	128	128	—	1	1	—	80	48	8	280	281	/ 11	28	27	2	180	180	8	80	80	18	8	8	—
12/3/44	188	180	8	48	48	—	1	1	—	80	80	—	78	140	/ 68	8	8	1	68	80	18	80	80	48	18	8	—

**SECRET**

# CRITICAL CRAFTS 100-F AREA PROJECT 2536

SHEET 7 OF 11 SHEETS

**CRITICAL CRAFTS**  
**100-F AREA**  
 PROJECT 9536

WEEK ENDING	LABORERS			CARPENTERS			REINF. ROD SETTERS			RIGGERS			PIPEFITTERS			PIPE WELDERS			ELECTRICIANS			MILLWRIGHTS			MWT. WELDERS		
	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT
9/30/64	800	800	14	450	450	—	70	70	—	120	120	—	500	513	17	45	45	45	180	180	11	60	60	10	25	25	—
10/7/64	800	800	—	350	350	—	60	60	—	120	120	—	500	500	—	45	45	45	200	207	68	80	80	—	25	25	—
10/14/64	800	800	✓ 50	300	300	—	45	45	—	120	120	—	500	500	—	45	45	45	200	217	68	70	70	—	25	25	—
10/21/64	800	800	✓ 50	250	250	50	50	50	—	120	120	53	500	500	—	45	45	45	200	217	68	70	70	—	25	25	—
10/28/64	800	800	✓ 50	250	250	50	50	50	—	120	120	53	500	500	—	45	45	45	200	210	70	50	50	—	25	25	—
11/4/64	800	800	—	200	175	25	25	25	—	140	140	—	500	500	—	45	45	45	200	212	108	60	60	—	25	25	—
11/11/64	800	800	—	200	180	20	22	22	—	120	120	20	500	500	—	45	45	45	200	212	48	60	60	—	25	25	—
11/18/64	800	800	—	200	180	20	22	22	—	120	120	20	500	500	—	45	45	45	200	212	48	60	60	—	25	25	—
11/25/64	450	178	272	178	160	16	25	25	—	100	98	17	500	514	268	50	50	50	200	212	88	90	90	—	12	12	—
12/2/64	400	178	212	180	180	—	20	20	—	100	78	23	700	446	268	12	12	12	300	399	111	80	80	—	12	12	—
12/9/64	400	178	212	180	180	—	18	20	—	100	100	—	700	987	148	78	88	80	200	997	161	78	80	—	12	12	—
12/16/64	350	200	160	150	150	10	10	10	—	100	90	30	700	989	42	78	88	80	200	180	100	78	78	—	12	12	—
12/23/64	350	200	✓ 80	150	150	10	10	10	—	100	98	4	700	972	28	100	72	20	200	178	12	78	78	—	12	12	—
12/30/64	350	200	80	100	100	—	10	10	—	100	90	10	700	955	28	100	72	28	200	160	80	78	78	—	12	12	—
1/6/65	350	300	60	128	128	—	8	8	—	10	✓ 2	50	700	950	180	100	60	20	200	160	60	78	78	—	12	12	—
1/13/65	350	300	80	100	100	—	8	8	—	11	✓ 2	50	700	950	180	100	60	20	200	160	38	78	78	—	12	12	—

SHEETS OF 17 SHEETS

**SECRET**

**CRITICAL CRAFTS**  
**105 AREA**  
**PROJECT 9536**

WEEK ENDING	LABORERS			CARPENTERS			REINF. ROD SETTERS			RIGGERS			PIPEFITTERS			PIPE WELDERS			ELECTRICIANS			MILLWRIGHTS			MWT. WELDERS		
	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT
12-18-43	180	180	—	182	182	—	50	50	—	12	12	—	28	10	-18	8	8	—	8	8	—	50	40	-10	4	4	—
12-25-43	280	280	—	284	284	—	60	60	-11	12	12	—	22	15	-5	2	2	—	12	12	—	64	64	—	1	1	—
1-2-44	278	278	—	282	282	—	60	60	—	12	12	—	20	10	-10	2	2	—	12	12	—	68	68	—	1	1	—
1-9-44	278	278	—	280	280	—	64	64	-16	12	12	—	14	14	—	8	8	—	8	8	—	64	64	—	1	1	—
1-16-44	208	208	—	204	204	-164	68	68	-22	12	8	-6	24	10	-16	2	2	—	24	18	—	48	48	—	1	1	—
1-23-44	242	242	-178	234	230	-128	120	70	-54	18	18	—	114	26	-80	8	6	—	28	28	-8	74	74	—	8	2	—
1-30-44	508	501	-125	500	500	-20	120	75	-45	66	66	—	26	25	—	8	2	-1	27	27	—	98	90	-8	—	—	—
2-6-44	452	452	-80	450	452	-120	64	70	-14	197	111	-86	101	50	-61	10	2	-6	50	46	-2	160	160	—	27	3	-24
2-13-44	518	518	-145	498	570	-56	58	58	-6	124	90	-36	75	50	-25	10	2	-6	45	38	-11	224	186	-70	38	30	—
2-20-44	643	611	-412	602	594	-96	74	68	-6	161	116	-46	108	50	-46	17	2	-12	71	58	-18	278	166	-112	34	24	—
2-27-44	708	697	-204	698	695	-161	72	67	-5	184	116	-56	108	65	-38	18	0	-10	81	63	-12	274	162	-112	26	26	—
3-3-44	545	545	-107	538	528	-108	58	58	-15	95	64	-12	61	56	-14	0	2	-5	78	54	-24	272	186	-87	28	30	-1
3-10-44	602	595	—	598	617	-112	64	62	-2	224	58	-36	107	107	—	14	7	-7	94	57	-37	268	151	-97	41	41	—
3-17-44	588	588	-104	480	480	—	48	48	—	208	97	-8	97	97	—	18	10	-8	82	78	-4	212	188	-80	27	27	—
3-24-44	512	492	-90	500	500	-2	68	68	—	168	50	-36	104	128	-71	18	26	-2	88	79	-8	187	187	-6	27	27	—
4-1-44	608	608	-108	606	608	-408	62	62	—	188	116	-18	108	108	—	18	18	-2	88	82	-17	260	232	-28	23	18	—
4-18-44	488	488	-148	392	392	—	80	80	—	204	118	-81	101	101	—	12	12	—	88	80	-80	268	244	-20	46	46	—
4-25-44	606	606	-988	622	601	-28	64	64	—	188	120	-8	188	94	-11	18	12	—	110	98	-42	472	480	-58	98	98	—
5-2-44	766	667	-118	625	625	—	60	60	—	188	106	-84	141	141	—	88	34	-61	184	101	-33	610	682	-87	68	68	—
5-9-44	680	680	-108	658	597	-138	62	62	—	168	120	-68	161	160	-1	84	81	-8	167	161	-48	651	612	-18	180	180	—
5-16-44	720	720	—	648	480	-14	97	97	—	141	181	—	280	188	-81	47	30	-17	148	101	-43	648	598	-80	118	118	—
5-23-44	801	708	-28	680	596	-28	68	68	-18	168	148	-87	280	140	-80	27	28	-6	117	86	-51	678	621	-56	117	117	—
5-30-44	688	706	-76	618	582	-98	68	68	-14	178	142	-86	274	260	-84	27	25	-6	148	87	-48	655	652	-2	92	92	—
6-3-44	786	756	-30	618	582	-28	68	68	-14	188	157	-8	280	228	—	18	16	-8	141	104	-37	276	556	-23	78	76	-1
6-10-44	786	756	—	604	584	-28	64	64	—	167	167	—	228	228	—	28	21	-8	127	106	-31	686	670	-18	42	42	—
6-17-44	676	686	-10	400	390	-28	64	64	—	167	167	—	228	228	—	11	22	—	127	112	-85	696	670	-18	42	42	—
6-24-44	701	701	—	642	582	-28	68	68	—	208	197	-88	262	222	-80	11	11	—	148	117	-28	623	614	-8	64	64	—
7-1-44	686	686	—	682	592	-70	97	97	-15	208	170	-81	262	220	-82	11	11	—	162	102	-80	627	590	-27	78	78	—
7-8-44	681	686	-45	628	292	-160	97	97	-28	167	230	-81	282	218	-84	10	9	-8	108	107	-28	670	588	-24	80	85	-18
7-15-44	640	560	-400	326	282	-28	97	97	-15	168	170	-15	288	218	-170	18	8	-13	169	142	-48	634	632	-22	84	84	—
7-22-44	653	618	-38	326	282	-28	97	97	-15	168	162	-23	288	240	-128	25	30	-8	197	142	-58	604	586	-18	60	67	-8
7-29-44	640	588	-56	548	282	-28	98	98	-15	207	188	-88	280	261	-128	40	28	-14	188	172	-18	601	686	-7	60	60	—
8-5-44	588	500	-56	273	282	-17	62	62	-87	161	171	-10	280	240	-100	60	23	-17	207	177	-60	687	682	-8	60	60	—
8-12-44	582	494	-66	271	271	—	57	57	—	168	162	-10	280	240	-100	60	23	-17	207	168	-62	650	632	-28	60	38	-8
8-19-44	426	401	-28	188	188	—	28	28	—	168	188	—	164	120	-28	60	23	-17	165	145	—	267	230	-27	20	20	—
8-26-44	345	345	—	148	248	—	24	24	—	150	180	—	160	150	-28	60	23	-17	120	120	—	345	345	—	18	18	—
9-2-44	277	244	-33	180	180	—	24	24	—	160	150	—	160	130	-28	60	18	-16	128	128	-6	288	288	-24	18	18	—
9-9-44	400	322	-78	180	180	—	24	24	—	160	150	—	160	130	-28	60	18	-16	128	128	-6	288	288	-24	18	18	—

**SECRET**

**CRITICAL CRAFTS**  
**105 AREA**  
 PROJECT 9536

WEEK ENDING	LABORERS			CARPENTERS			REINF. ROD SETTERS			RIGGERS			PIPEFITTERS			PIPE WELDERS			ELECTRICIANS			MILLWRIGHTS			MWT. WELDERS		
	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT
9-15-44	366	367	-1	160	160	-	19	19	-	150	150	-	190	156	-34	40	17	-23	156	140	-16	332	332	-	18	18	-
9-22-44	372	356	-16	160	160	-	19	19	-	160	160	-	216	178	-38	36	17	-18	156	141	-14	309	309	-	18	18	-
9-29-44	328	328	-	180	180	-	14	14	-	180	180	-	226	220	-6	36	17	-18	180	145	-56	319	270	-49	18	18	-
10-6-44	320	328	-	180	180	-	14	14	-	138	138	-	280	276	-4	30	24	-6	200	144	-66	319	278	-41	18	18	-
10-13-44	286	270	-16	180	180	-	14	10	-4	136	118	-22	260	230	-30	26	25	-3	202	148	-57	356	271	-94	6	6	-
10-20-44	256	260	-4	180	108	-12	12	12	-	140	108	-32	280	240	-40	26	26	-2	182	166	-17	352	288	-94	51	41	-10
11-4-44	286	288	-	180	120	-	12	12	-	130	118	-15	280	216	-63	28	25	-5	182	180	-32	336	279	-69	66	66	-
11-11-44	298	298	-	180	120	-	8	12	-2	110	108	-8	300	230	-61	28	25	-8	207	170	-37	310	280	-30	62	50	-11
11-18-44	120	288	-178	180	120	-	8	10	-2	120	98	-22	276	258	-17	25	25	-	202	163	-39	297	287	-10	62	59	-3
11-25-44	120	91	-29	180	120	-	8	8	-	120	108	-17	360	269	-91	31	23	-8	182	136	-46	15	222	-207	68	68	-
12-2-44	60	60	-2	80	45	-35	6	6	-	120	98	-28	350	248	-62	28	20	-8	187	128	-59	18	18	-	66	66	-
12-9-44	60	60	-2	80	60	-20	4	6	-	70	68	-12	180	201	-21	18	19	-1	122	118	-4	10	10	-	53	53	-
12-16-44	60	60	-2	80	80	-	4	4	-	90	88	-1	300	200	-	18	17	-1	154	120	-14	10	10	-	53	53	-
12-23-44	60	60	-2	80	60	-2	4	4	-	75	75	-	220	200	-20	15	18	-	134	120	-14	10	10	-	53	40	-15
12-30-44	60	60	-10	80	45	-35	4	4	-	50	50	-	200	186	-15	18	18	-	130	110	-20	15	15	-	23	23	-
1-6-45	60	60	-20	80	60	-20	4	6	-	50	50	-	200	186	-15	18	18	-	130	110	-20	10	10	-	23	23	-
1-13-45	60	60	-10	80	60	-2	4	6	-	50	50	-	240	175	-35	24	18	-6	180	120	-60	12	12	-	6	6	-
1-20-45	60	60	-10	80	60	-2	2	2	-	50	40	-10	240	180	-30	24	15	-9	170	130	-40	12	11	-1	6	6	-
1-27-45	60	48	-15	60	35	-25	2	2	-	15	18	-	200	145	-35	20	20	-	136	106	-30	12	10	-2	6	6	-
2-3-45	60	30	-30	60	25	-5	2	2	-	18	10	-8	160	135	-15	15	15	-	140	106	-35	12	12	-	6	6	-

SHEET 1 OF 11 SHEETS

**SECRET**

**CRITICAL CRAFTS**  
**200-W AREA**  
 PROJECT 9936

WEEK ENDING	LABORERS			CARPENTERS			REINF. ROD SETTERS			RIGGERS			PIPEFITTERS			PIPE WELDERS			ELECTRICIANS			MILLWRIGHTS			MWT. WELDERS		
	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT
12/19/43	480	81	398	416	297	-118	26	10	16	48	45	-	28	10	16	2	2	-	20	8	16	20	16	4	20	16	4
12/26/43	480	462	/ 12	416	416	-	28	20	8	46	46	-	26	6	17	3	3	-	20	7	16	20	16	4	20	16	4
1/2/44	480	480	-	500	500	-	40	60	-	56	56	-	26	26	-	3	3	-	40	12	26	20	16	4	20	16	4
1/5/44	480	406	46	650	700	150	60	40	20	60	60	-	50	50	-	8	6	-	50	17	33	26	26	-	50	17	-
1/16/44	800	406	96	1060	700	360	70	40	30	58	61	7	68	49	19	6	3	3	68	28	33	16	16	-	68	28	-
1/23/44	650	250	300	1300	700	600	100	38	65	75	70	5	95	84	29	8	0	8	70	26	46	50	30	20	70	26	46
1/30/44	600	228	376	1800	700	800	128	40	85	96	78	19	140	84	76	10	5	5	70	48	28	60	30	20	70	48	28
2/6/44	650	200	450	1800	1000	800	180	40	110	110	76	34	160	86	64	16	6	9	90	63	27	80	20	30	90	63	27
2/13/44	850	200	480	1700	1000	700	160	100	60	126	76	49	176	92	83	20	9	11	90	63	27	80	20	30	90	63	27
2/20/44	800	280	550	1750	1000	750	176	100	75	126	76	49	160	117	33	20	9	11	90	63	27	80	26	36	90	63	27
2/27/44	800	250	550	1800	1014	786	180	100	50	160	82	68	180	146	36	26	12	13	100	83	17	80	26	56	100	83	17
3/5/44	800	250	580	1700	1014	686	160	100	80	160	109	41	180	139	41	26	16	9	100	76	26	90	26	66	100	76	26
3/12/44	800	200	600	1700	1094	604	160	146	4	150	106	44	180	146	32	30	14	16	116	66	50	30	40	50	116	66	50
3/19/44	800	250	610	1660	1200	450	160	160	-	160	130	30	210	207	3	30	22	8	125	70	56	100	70	30	125	70	56
3/26/44	800	300	600	1800	1376	226	170	170	-	160	130	30	230	180	50	30	26	6	138	64	71	110	90	20	138	64	71
4/2/44	800	374	426	1800	1600	100	120	120	-	176	144	31	240	240	-	30	30	-	170	64	106	120	90	30	170	64	106
4/9/44	800	306	495	1880	1500	50	180	180	-	190	164	36	280	260	20	30	28	2	190	70	120	136	90	46	190	70	120
4/16/44	800	300	800	1860	1860	50	180	180	-	210	167	53	310	310	-	30	30	-	180	76	106	150	113	37	180	76	106
4/23/44	800	330	470	1700	1662	38	160	180	-	210	190	20	320	247	73	30	28	2	190	103	67	160	97	63	190	103	67
5/6/44	800	300	500	1700	1662	38	180	180	-	200	190	10	340	300	40	30	17	13	200	103	97	170	109	61	200	103	97
5/13/44	800	400	400	1700	1546	154	180	180	-	210	226	-	370	360	20	35	20	15	240	110	130	210	109	101	240	110	130
5/20/44	725	400	325	1830	1500	100	160	160	-	220	211	9	400	389	11	35	24	11	250	110	140	220	109	111	250	110	140
5/27/44	700	600	200	1600	1600	-	180	180	-	200	200	-	420	389	31	35	31	4	260	131	129	230	184	46	260	131	129
6/3/44	650	650	100	1200	1200	-	160	146	15	180	180	-	440	440	-	35	32	3	260	137	123	236	199	36	260	137	123
6/10/44	800	700	/ 80	1100	1000	100	115	112	3	180	180	-	480	480	-	40	36	4	270	160	110	240	180	60	270	160	110
6/17/44	800	800	/ 100	950	900	50	114	116	-	180	180	-	700	500	200	50	42	8	330	220	110	225	204	110	330	220	110
7/1/44	800	800	-	800	800	-	100	40	10	160	160	-	750	591	254	60	67	3	340	240	130	250	240	10	340	240	130
7/8/44	750	750	-	600	600	-	75	65	10	160	160	-	750	590	180	65	60	5	350	256	94	300	231	61	350	256	94
7/15/44	650	650	-	750	750	-	75	76	-	150	150	-	750	440	342	70	32	38	350	247	103	390	300	-	350	247	103
7/22/44	650	650	f0	800	800	-	75	76	-	150	140	10	760	598	554	70	36	38	360	268	94	300	300	-	360	268	94
7/29/44	600	600	100	800	800	-	70	70	-	160	160	-	750	440	310	70	40	30	360	300	50	300	300	-	360	300	50
8/5/44	600	480	115	700	700	-	65	65	-	139	139	-	750	470	280	70	53	17	350	380	-	300	300	-	350	380	-
8/12/44	600	426	176	800	800	-	65	65	-	160	160	-	750	488	262	70	65	5	350	300	80	300	275	26	350	300	80

JOURNAL OF SCHEDULES

**SECRET**  
**CRITICAL CRAFTS**  
**200-W AREA**  
**PROJECT 9536**

WEEK ENDING	LABORERS			CARPENTERS			REINF. ROD SETTERS			RIGGERS			PIPEFITTERS			PIPE WELDERS			ELECTRICIANS			MILLWRIGHTS			MWT. WELDERS		
	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT
8/19/44	500	628	78	500	500	—	50	50	—	125	125	—	800	850	—	75	65	10	50	250	—	300	300	—	100	100	—
8/26/44	500	450	50	500	500	—	50	50	—	125	125	—	800	450	350	75	55	20	250	250	—	300	300	—	100	100	—
9/2/44	500	450	50	450	450	—	25	25	—	125	125	—	800	400	180	70	55	15	250	250	—	100	100	—	100	100	—
9/9/44	500	450	50	300	300	—	50	50	—	125	125	—	875	400	175	65	55	22	200	200	—	100	100	—	100	100	—
9/16/44	500	450	50	300	300	—	50	50	—	125	125	—	600	418	186	70	55	8	300	300	—	200	194	6	100	100	—
9/23/44	350	350	—	250	200	50	20	20	—	75	75	—	800	500	—	50	50	—	200	200	—	175	175	—	100	100	—
9/30/44	275	275	—	150	150	—	20	20	—	75	75	—	800	500	—	50	50	—	200	200	—	175	175	—	100	100	—
10/7/44	350	350	—	185	185	—	15	15	—	75	75	—	400	419	/ 19	50	50	—	150	150	—	175	150	25	100	100	—
10/14/44	350	350	/ 88	180	180	—	15	10	5	75	75	—	600	428	/ 28	60	45	/ 5	175	180	25	175	180	25	100	100	—
10/21/44	280	325	/ 45	130	130	—	2	2	—	80	75	5	400	375	25	32	41	/ 1	180	180	10	140	140	—	100	100	—
10/28/44	290	355	/ 98	150	150	—	12	12	—	70	84	16	375	418	/ 40	35	35	/ 4	350	350	40	120	120	—	100	100	—
11/4/44	200	200	—	118	118	—	10	0	—	60	45	8	350	320	78	60	30	10	200	180	20	140	140	—	100	100	—
11/11/44	200	180	—	100	100	—	0	0	—	80	49	1	318	344	29	35	33	—	250	165	87	96	96	—	100	100	—
11/18/44	180	180	20	80	75	5	0	0	—	50	45	2	318	344	29	30	41	/ 11	200	180	45	90	90	—	100	100	—
11/25/44	180	108	82	70	65	5	0	0	—	50	45	8	300	300	—	30	32	/ 2	200	188	45	75	75	—	100	100	—
12/2/44	140	120	20	30	28	2	0	0	—	40	40	—	200	200	—	20	19	1	150	150	—	60	60	—	100	100	—
12/9/44	120	120	—	75	75	—	0	0	—	30	30	—	180	180	—	10	18	—	90	90	—	50	50	—	100	100	—

**LEGEND:**

REQ. Number of men requested by the Division Engineer for work in the above areas.

ALLOC. Number of men allocated by the Planning & Scheduling Department to work in the above areas.

SHORT Number of men short daily per incoming sheet.

**SECRET**

**CRITICAL RAFTS**  
**200-E AREA**  
 PROJECT 9536

WEEK ENDING	LABORERS			CARPENTERS			REINF. ROD SETTERS			RIGGERS			PIPEFITTERS			PIPE WELDERS			ELECTRICIANS			MILLWRIGHTS			MWT. WELDERS			
	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	
12/13/43	80	16	64	46	48	---	2	0	2	6	6	---	8	0	8	1	1	---	4	0	4	2	2	---				
12/20/43	166	200	56	80	100	100	2	0	2	6	8	---	3	0	3	1	1	---	6	4	2	4	2	2				
1/2/44	280	76	176	192	186	6	2	2	---	8	6	---	12	0	12	1	1	---	6	4	2	2	0	2				
1/9/44	300	76	226	192	60	132	4	2	2	10	10	---	12	12	---	0	2	2	8	0	8	2	0	2				
1/16/44	100	16	84	80	32	68	2	0	2	10	10	---	12	4	8	0	0	---	8	0	8	2	2	---				
1/23/44	86	16	69	46	16	32	4	0	4	10	10	---	21	0	21	1	0	1	18	0	18	2	2	---				
1/30/44	100	16	84	100	16	84	4	0	4	10	18	8	26	10	18	0	0	---	24	0	24	2	2	---				
2/6/44	100	16	84	100	16	84	4	0	4	18	9	9	10	9	1	1	1	---	24	0	24	2	2	---				
2/13/44	100	16	84	100	20	80	4	0	4	18	10	8	26	9	18	1	1	---	24	0	24	5	0	6				
2/20/44	100	32	68	100	46	52	4	0	4	18	16	2	25	20	5	1	5	4	24	15	9	6	0	6				
2/27/44	100	32	68	100	48	52	4	4	---	18	16	2	25	14	11	1	4	3	24	15	9	6	6	3				
3/3/44	66	32	24	106	80	26	3	2	1	18	18	---	17	16	1	1	7	6	7	6	1	8	6	3				
3/10/44	36	32	4	148	148	---	2	2	---	18	18	---	19	14	4	1	3	2	7	7	7	2	6	3				
3/17/44	44	48	---	146	146	---	4	4	---	24	24	---	24	24	---	2	2	---	12	11	1	16	16	4				
3/24/44	90	50	40	164	160	4	7	7	---	32	29	3	50	34	16	3	1	2	13	10	3	13	13	---				
4/1/44	189	100	89	200	200	---	24	24	---	20	20	---	48	48	---	2	2	---	30	18	14	16	16	4				
4/8/44	216	100	116	200	200	---	36	36	---	30	25	5	56	50	5	2	2	---	28	27	1	20	16	4				
4/15/44	216	60	166	220	200	20	36	36	---	36	25	11	62	62	---	4	4	---	30	27	3	32	16	4				
4/22/44	215	50	166	288	200	86	40	40	---	36	30	8	83	89	8	4	4	---	46	16	29	32	20	12				
4/29/44	250	80	200	328	200	128	44	44	---	45	18	29	63	63	---	4	4	---	46	18	29	56	20	36				
5/6/44	260	60	190	266	200	56	44	44	---	44	16	28	66	66	1	5	4	1	50	16	34	46	20	26				
5/13/44	260	82	168	260	184	96	54	54	---	44	44	---	86	82	4	5	4	1	50	16	34	46	20	25				
5/20/44	260	82	168	320	184	136	66	64	2	50	36	14	86	86	27	5	2	3	50	16	34	46	24	21				
5/27/44	260	82	178	366	184	172	78	54	24	60	36	14	103	70	30	6	2	4	46	16	23	20	20	---				
6/3/44	180	150	---	320	210	110	62	80	2	58	50	8	86	86	1	8	4	2	40	16	24	24	20	4				
6/10/44	238	260	22	500	336	164	183	133	---	70	70	---	76	76	---	9	4	5	40	16	24	46	20	25				
6/17/44	342	360	18	672	336	336	148	146	2	70	70	70	129	70	59	13	4	9	40	16	24	46	20	25				
6/24/44	362	462	100	676	360	326	128	128	---	63	78	6	139	66	74	6	6	---	46	16	30	61	38	16				
7/1/44	356	398	---	782	454	296	134	110	4	126	70	55	147	66	92	10	6	4	44	8	36	46	40	6				
7/8/44	432	96	36	886	808	247	150	66	62	123	70	53	183	70	113	12	4	8	60	8	42	60	60	4				
7/15/44	392	379	63	943	600	343	133	83	50	132	68	64	176	65	110	16	4	11	73	12	61	73	80	13				
7/22/44	406	329	97	927	600	327	131	68	63	136	68	68	203	64	139	19	7	8	68	12	56	54	50	14				
7/29/44	430	310	126	901	619	282	129	77	52	128	73	55	183	60	133	19	10	9	65	77	12	74	84	20				
8/5/44	414	286	129	811	779	32	103	98	6	126	96	27	196	67	181	20	10	10	61	60	31	96	93	3				
8/12/44	428	306	123	790	790	---	103	90	13	134	106	26	212	72	140	20	20	---	81	80	31	100	96	16				
8/19/44	379	286	96	654	656	---	106	80	13	134	128	6	217	60	139	20	20	---	61	61	---	92	66	7				
8/26/44	263	286	66	647	647	---	103	90	13	140	126	13	217	60	187	20	20	---	66	66	---	107	107	---				
9/2/44	353	286	66	634	636	---	77	77	---	83	83	---	217	30	187	20	6	14	95	76	20	130	130	---				
9/9/44	330	286	65	641	641	---	76	76	---	80	80	---	238	67	181	27	6	21	100	61	18	128	120	8				
9/16/44	280	286	18	483	483	---	87	61	6	80	80	---	248	67	188	20	11	8	92	80	2	30	30	30	---			

~~SECRET~~  
**CRITICAL RAFTS**  
**200-E AREA**  
 PROJECT 9536

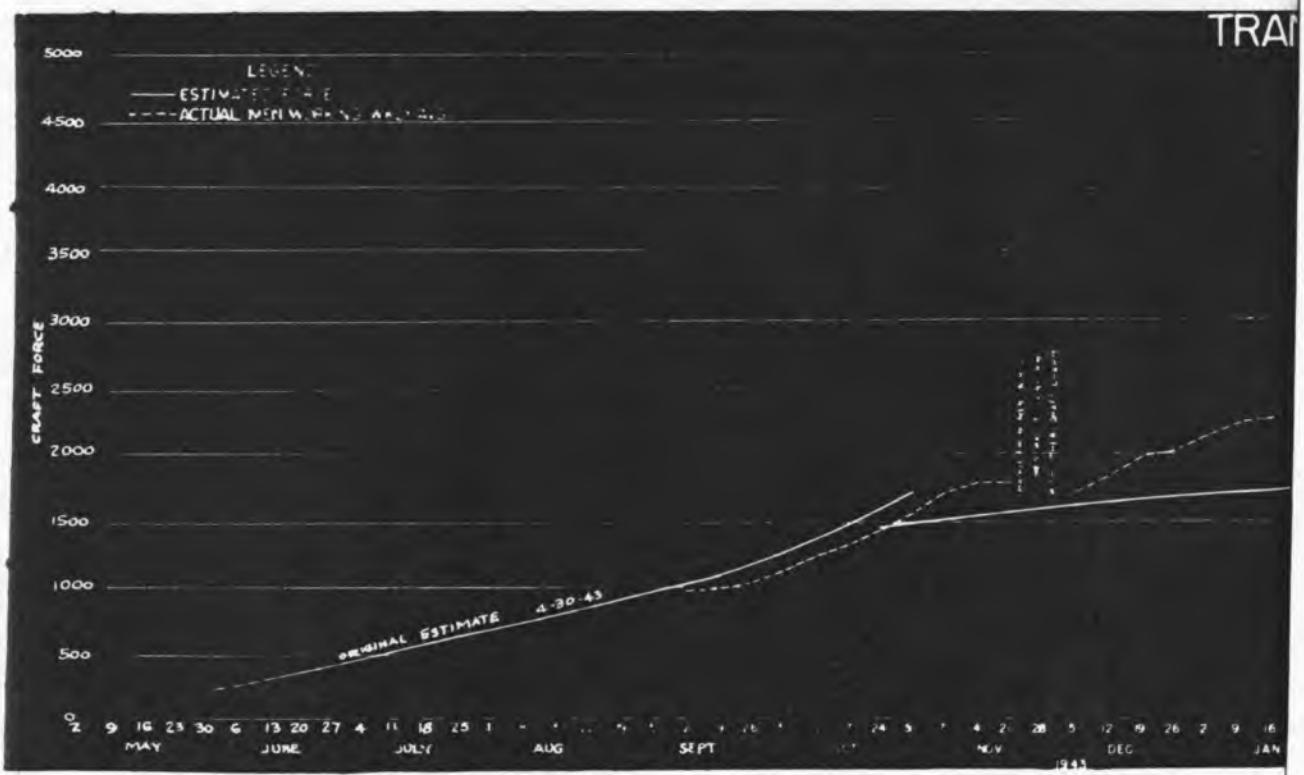
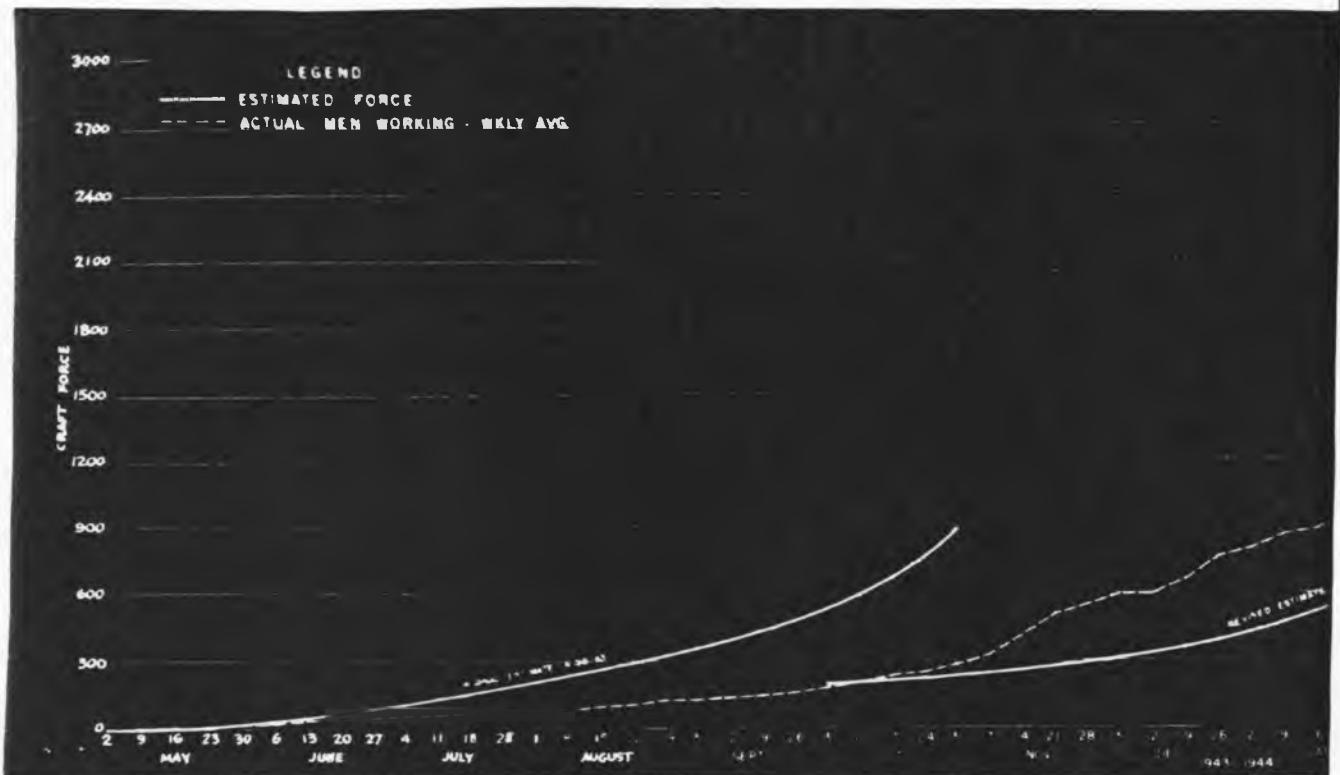
WEEK ENDING	LABORERS			CARPENTERS			REINF. ROD SETTERS			RIGGERS			PIPEFITTERS			PIPE WELDERS			ELECTRICIANS			MILLWRIGHTS			MWT. WELDERS				
	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT	NO. REQ.	NO. ALLOC.	NO. SHORT		
9/23/44	280	280	---	390	380	10	44	44	---	80	80	---	245	57	188	12	6	6	92	92	---	25	25	---	---	---	---		
9/30/44	300	280	20	360	350	—	44	44	—	80	80	—	245	160	85	21	6	15	80	80	—	50	25	25	28	28	28		
10/7/44	293	293	—	340	332	8	34	34	—	78	78	—	239	162	77	19	14	5	78	68	10	80	25	25	25	25	25	25	
10/14/44	288	328	✓ 37	380	380	—	28	20	8	65	65	—	229	155	78	19	18	1	95	78	40	70	25	25	25	25	25	25	
10/21/44	240	310	✓ 70	360	300	60	33	30	3	60	55	5	228	221	4	22	25	✓ 4	100	55	45	70	50	20	—	—	—	—	
10/28/44	268	325	✓ 57	360	360	—	26	26	—	65	65	—	227	222	5	21	29	✓ 8	98	55	43	60	25	35	—	—	—	—	
11/4/44	276	276	---	360	217	155	22	22	—	60	45	15	260	100	160	25	10	15	100	60	80	70	50	20	—	—	—	—	
11/11/44	300	180	120	400	331	69	16	22	✓ 6	80	45	15	260	105	145	25	25	—	160	50	100	100	50	50	50	50	50	50	
11/18/44	330	160	180	440	325	115	18	20	✓ 2	65	45	20	300	167	167	30	22	8	185	65	122	100	100	—	—	—	—	—	—
11/25/44	330	100	230	400	340	60	30	30	—	65	40	15	300	185	147	30	14	16	200	63	187	100	85	15	—	—	—	—	—
12/2/44	300	145	155	380	346	4	30	32	✓ 2	65	65	20	300	191	109	30	20	10	220	60	140	100	85	15	—	—	—	—	—
12/9/44	276	160	125	300	300	—	30	27	5	65	55	10	300	279	21	30	30	—	220	127	95	160	122	28	—	—	—	—	—
12/16/44	276	176	100	226	225	—	32	29	3	70	71	4	300	260	40	30	28	6	200	138	82	160	146	4	—	—	—	—	—
12/23/44	308	220	80	275	275	—	24	27	✓ 3	75	72	3	275	260	15	28	28	—	200	170	30	160	160	—	—	—	—	—	—
12/30/44	300	200	100	276	257	18	20	22	✓ 2	75	65	10	360	260	90	55	28	7	210	180	60	130	130	—	—	—	—	—	—
1/6/45	300	156	144	225	225	—	12	16	✓ 4	70	62	6	360	225	125	35	26	9	210	125	65	120	120	—	—	—	—	—	—
1/13/45	300	250	50	160	160	—	10	13	✓ 5	65	61	4	450	182	68	60	30	10	225	146	70	110	100	10	—	—	—	—	—

LEGEND

REQ. Number of men requested by the Division Engineer for work in the above area.

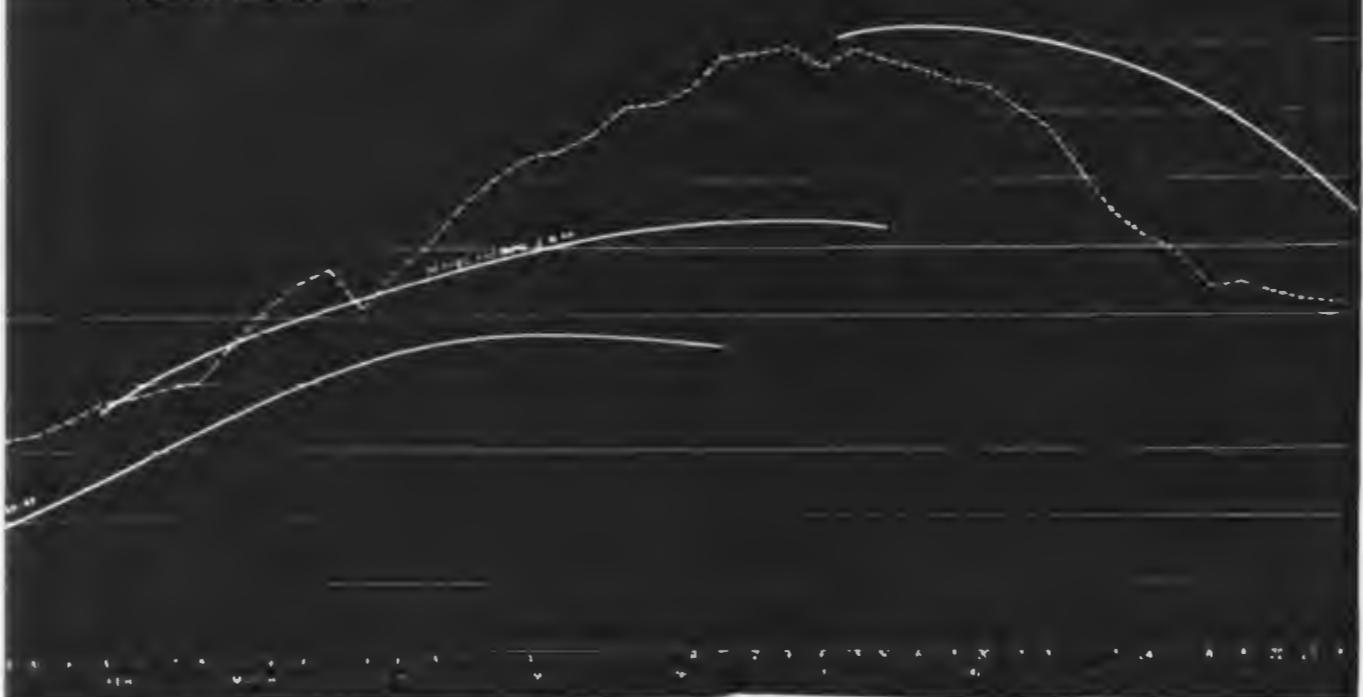
ALLOC. Number of men allocated by the Planning & Scheduling Department to work in the above area.

SHORT Number of men short daily not including absenteism.



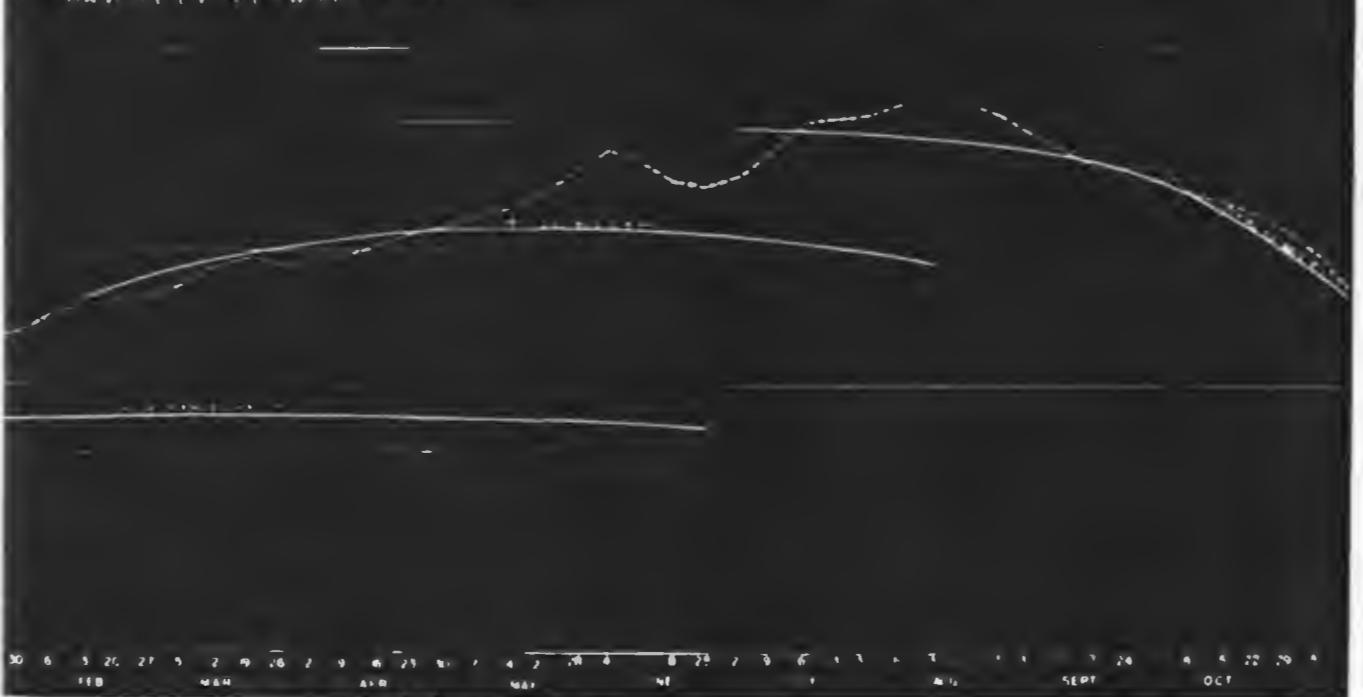
# MECHANICAL CRAFT CURVE

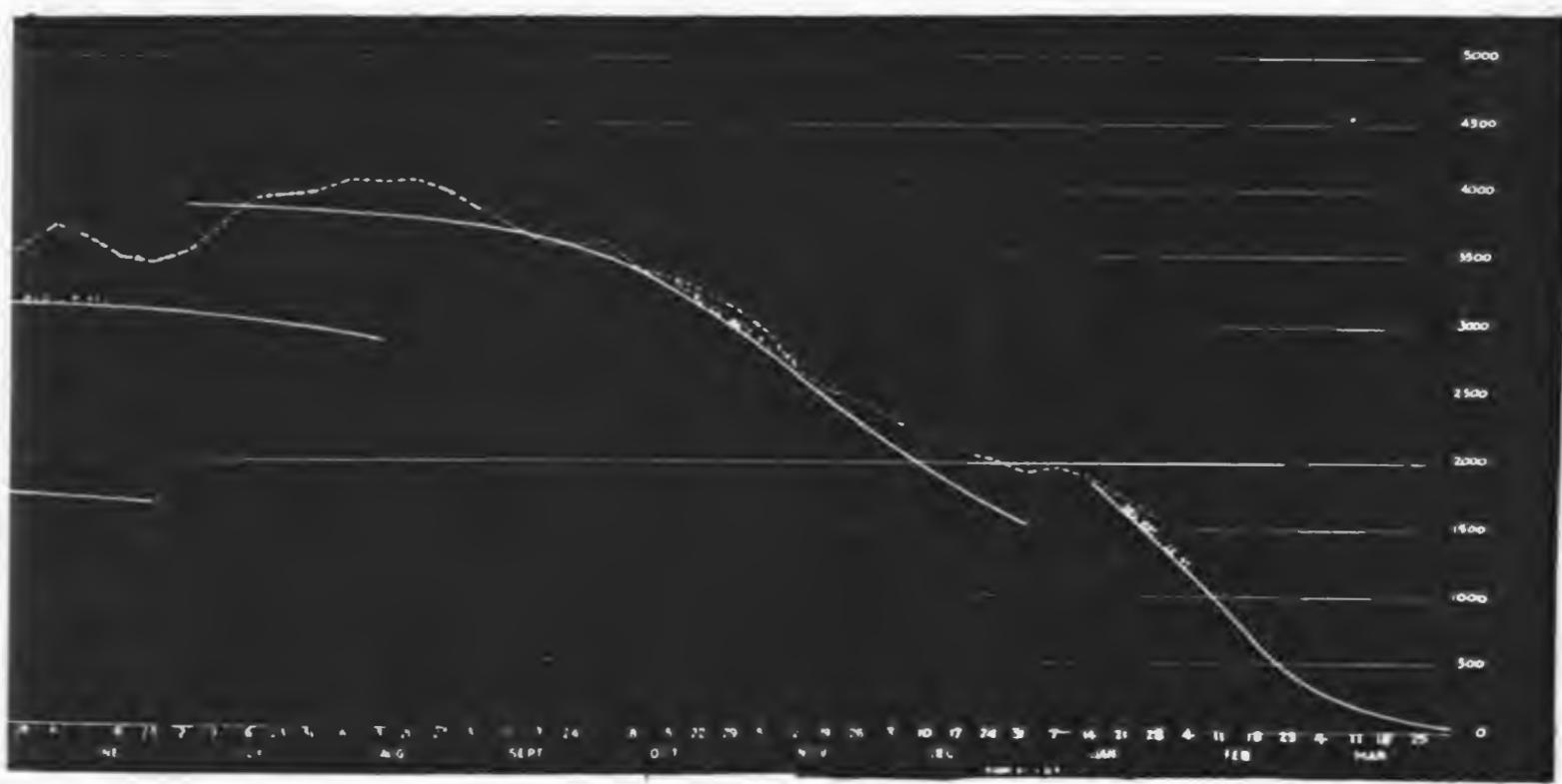
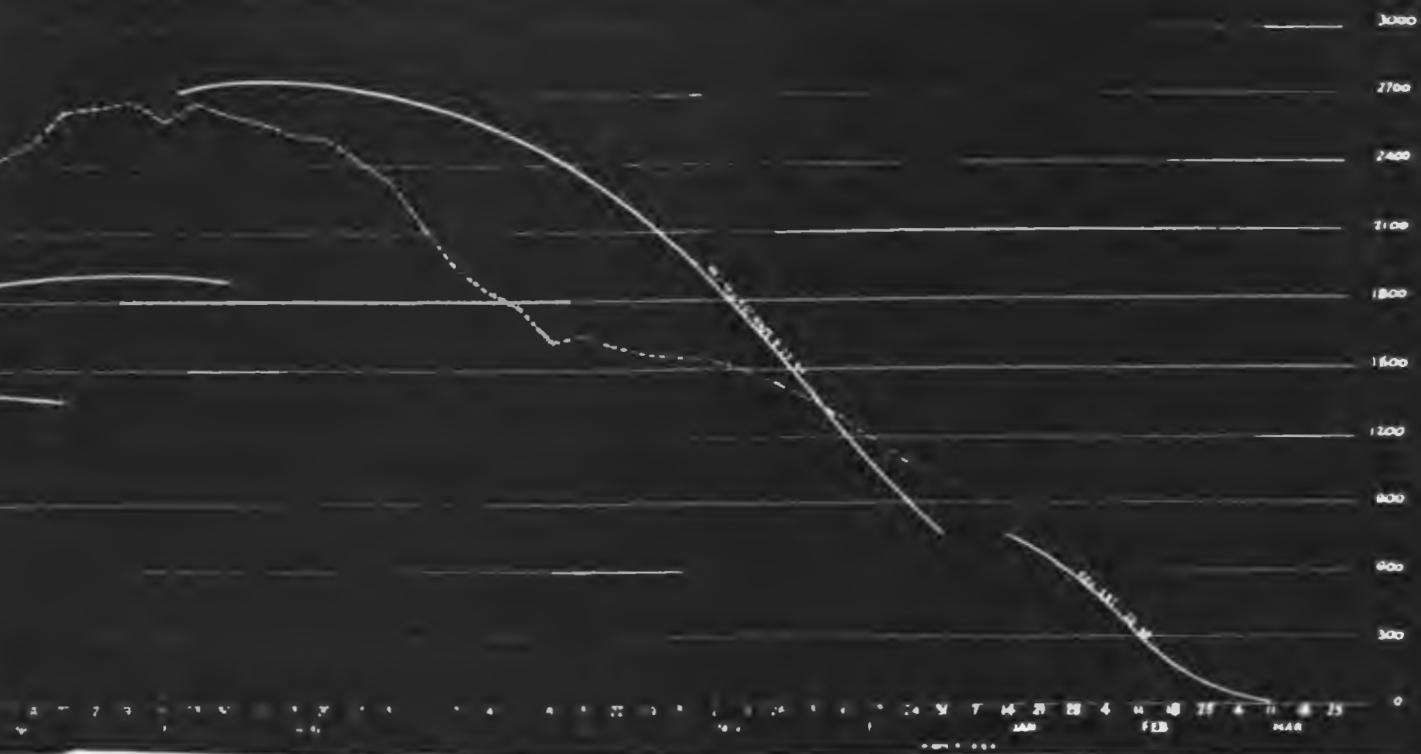
HANFORD ENGINEER WORKS



# SPORTATION CRAFT CURVE

HANFORD ENGINEER WORKS





WT

WT

B10

# PACIFIC NORTH INDUSTRIES

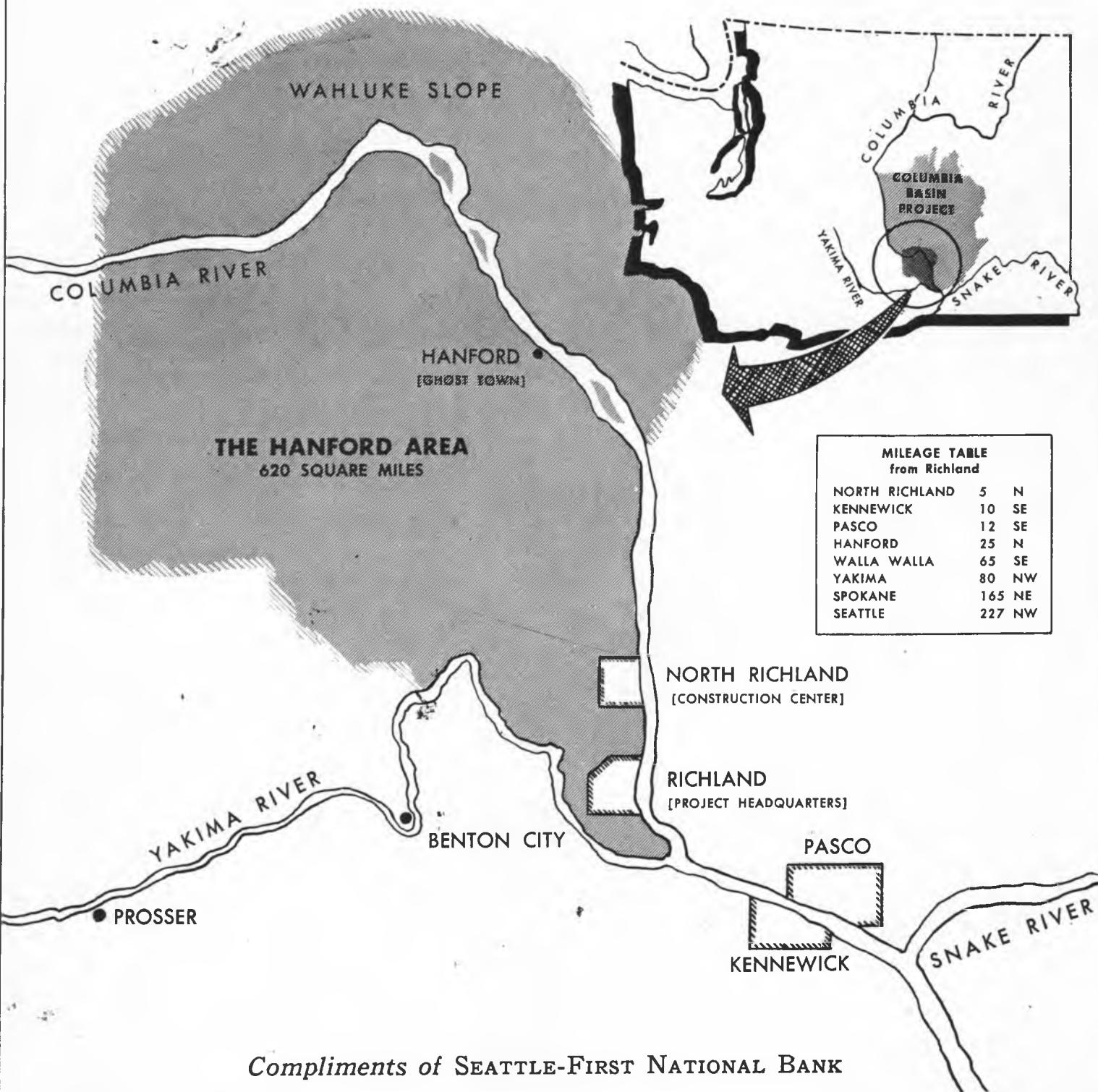
## HANFORD WORKS

SEATTLE-FIRST  
NATIONAL BANK



DECEMBER • 1948

### THE HANFORD WORKS



# PACIFIC NORTHWEST INDUSTRIES • THE HANFORD WORKS

## THE MEN WHO DIRECT HANFORD



FRED C. SCHLEMMER

Fred C. Schlemmer became the second civilian manager of Hanford Operations Office on September 15, 1948, succeeding Carleton Shugg who moved to Washington, D. C., as Deputy Manager for AEC. Prior to Mr. Shugg there were two military commanders of the operation, Col. F. T. Mattias during the war and Col. Frederick J. Clarke, the peacetime manager until September 1, 1947.

Mr. Schlemmer, a native of New York, has had 30 years experience in engineering and construction management including the organization and supervision of self-sufficient communities at large construction operations. From 1933 to 1946 he was a key member of the TVA construction staff where he supervised the construction of several major dams in North Carolina and Tennessee. Prior to that he worked for the J. G. White Engineering Corporation of New York on various industrial construction jobs. Since leaving TVA Mr. Schlemmer has been an executive of the Peerless Woolen Mills Company of Rossville, Georgia. In 1946 he went to India as a consultant on the development of river systems. For the past year he has been an engineering consultant for AEC and in that capacity has conducted surveys for the construction programs at Hanford and Los Alamos.

### ATOMIC ENERGY COMMISSION HANFORD OPERATIONS OFFICE

*Manager:* Fred C. Schlemmer.

*Deputy Manager:* David F. Shaw

*Assistants to the Manager:* James E. Travis, Lloyd Bergeson

*Operations Division:* Roy C. Hageman

*Construction and Maintenance Division:* Wm. P. Cornelius

*Office of Counsel:* Roger I. Harris

*Office of Budget:* Verne Lewis

*Office of Information Control:* Milton R. Cydell

*Office of Security:* Vernon K. Schumann

*Office of Safety:* Vincent R. Holmquist

*Office of Community Management:* Norman D. Fuller

*Office of Organization and Personnel:* Henry E. Thurston

*Office of Administrative Services:* Rudolph Hoglund

*Office of Finance:* Chas. F. Schank

This special issue of Pacific Northwest Industries is prompted by widespread interest in the Hanford Works, both as a unique industrial enterprise and as a major factor in the Northwest's economic life. The Seattle-First National Bank is proud that it has served the project since its inception.

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We acknowledge with sincere thanks the cooperation of AEC's Office of Information Control and other officials of the government and the General Electric Co. We are also greatly indebted to the Tri-City Herald, which made available a complete file of its series of articles on the Hanford Works published in August and September this year.

### INDUSTRY ANALYSIS SECTION

MAIN OFFICE, SEATTLE-FIRST NATIONAL BANK  
SEATTLE 14, WASHINGTON



GEORGE R. PROUT

George R. Prout was named Assistant General Manager of the G.E. Nucleonics Department effective November 1, 1948. He will become General Manager on January 1, succeeding Roy C. Muir, who returned from retirement last April to head the department. Mr. Muir will continue as a consultant.

Mr. Prout has been a vice-president of the company and General Manager of the Air Conditioning Department since 1944. He has been associated with the General Electric Company since his student days, when he enrolled in the M.I.T.-G.E. Cooperative Course for student engineers in 1920. Subsequently he served the company in various capacities in the Southwest where he established a reputation in the petroleum industry. In 1929 he received the Charles A. Coffin Award for his engineering contributions in the application of electrical equipment to oil pipe line pumping. Later he became District Manager of the Industrial Department of G.E.'s Southwestern District, and in 1939 was transferred to Schenectady as Sales Manager of the Industrial Control Division. He became manager of this division in 1941. Subsequently, when the Air Conditioning Department was established, he became General Manager with headquarters in Bloomfield, N. J.

### GENERAL ELECTRIC COMPANY NUCLEONICS DEPARTMENT

*V. Pres. and General Manager:* R. C. Muir, April 8, 1948-Dec 31, 1948. *George R. Prout, Jan. 1, 1949-*

*Assistant Manager:* R. S. Neblett (Schenectady operations)

*Assistants to the General Manager:* J. R. Rue, expense control and budgetary matters; Dr. Winton I. Patnode, technical and educational matters; G. G. Lail, general administrative matters (also manager of the service divisions)

*Nucleonics Dept. Comptroller (also an Assistant Secretary of G.E.):* Forrest E. Baker

*Counsel for Nucleonics Department:* Lewis F. Huck

*Manufacturing Divisions:* C. N. Gross

*Technical Divisions:* Dr. A. B. Greninger

*Design and Construction Divisions:* Frank R. Creedon

*Richland Community Divisions:* E. L. Richmond, Community Manager

*Service Divisions:* G. G. Lail

*Health Instrument Divisions:* Dr. H. M. Parker

*Medical Divisions:* Dr. W. D. Norwood

*Employee and Community Relations Division:* H. E. Callahan

# THE HANFORD WORKS

Hanford Works is one of the biggest things in the Northwest. Here in the desert of Southeastern Washington Uncle Sam during the war invested \$350 million in the world's first plants for the manufacture of plutonium. Currently additional funds in the neighborhood of \$20 million a month are being poured into a program of expansion and renovation which will bring the total investment by 1952 or 1953 close to a billion dollars. Almost 9,000 workers are employed by the General Electric Company in operating the plants, supervising construction and running the City of Richland for the government. Sub-contractors are employing another 16,000 on construction.

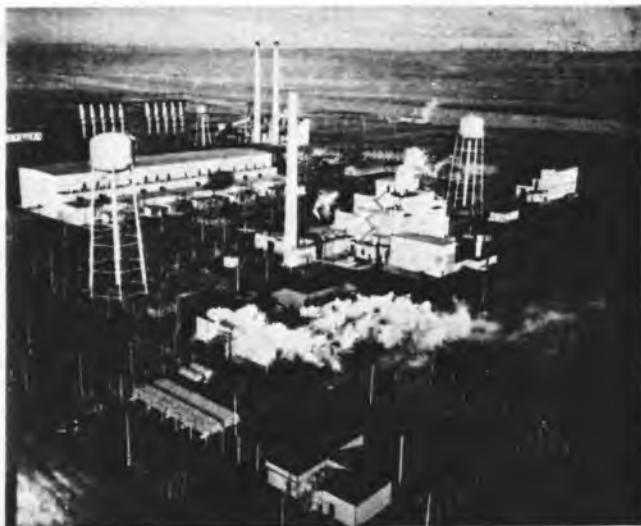
### **A Major Northwest Industry**

Quite apart from the national and international significance of the product, this development, by its very size, is of major importance to the region. Here is the Northwest's second largest payroll; the largest, if the current construction program is included. Here is an industry which ranks with such other major industries as light metals and plywood in its importance to the Northwest's economy. Here is a new market—one of the state's largest—created by the new city of Richland and the rapid growth of Pasco and Kennewick. Indeed, the entire Northwest would have an interest in a project of this size, whether the product was plutonium or pretzels. It is well to take a good look at Hanford Works, not only to satisfy our curiosity, but also to gauge its long-range effect on Northwest business.

### **Nature of Activity**

What goes on at Hanford Works? To some extent, the notion still prevails that the entire affair is secret. On the contrary, such general items as employment, organization, and community development are public information. Even with regard to the industrial processes, we now can learn as much as most of us are able to understand.

Hanford Works is one of three major installations of the atomic energy program. The other two are at Oak Ridge, Tennessee, and Los Alamos, New Mexico. Hanford does not make bombs. It produces plutonium, a radio-active element which is basic both to bombs and to other applications of atomic energy. The raw material is uranium, and the production process subjects uranium to atomic bombardment in a "pile." The second installation—Oak Ridge—is devoted to separating the U-235 isotope from U-238, using an entirely different process, a process of "gaseous diffusion." The third, Los Alamos, is the home of the atomic bomb, the place where materials produced at Hanford and Oak Ridge are utilized in the atomic weapon program. Of the three installations, Hanford and Oak Ridge are about equal in size, Los Alamos a good deal smaller. Hanford now has more than one-fourth of all employees engaged in atomic energy operations and two-thirds of those engaged in construction.



*The Heart of Hanford Works—one of the plants*

### **More About Atomic Energy**

In addition to these three major installations, the total program includes laboratories at Chicago (The Argonne National Laboratories), at Patchogue, Long Island (The Brookhaven National Laboratories), and at Schenectady (The Knolls Atomic Power Laboratories). Oak Ridge and Los Alamos also have important laboratories but research at Hanford is limited largely to improvements in the production process. The Schenectady laboratories—because they, like Hanford, are run by the G. E. Company—are administratively part of the Hanford Works. Their purpose is research in peacetime applications of atomic power.

All of these installations are under the direction of the Atomic Energy Commission, the civilian agency which was created by the Atomic Energy Act of 1946 and took over from the Manhattan District of the Army Engineers at the beginning of 1947. The Commission itself consists of five men chaired by David Lilienthal. In Washington, D. C., the Commission has a general manager, 38-year-old Carroll Wilson, and a relatively small staff. Under civilian control the program has been decentralized to the extent that the managers of installations like Hanford can make decisions involving millions of dollars.

The Commission carries on its operations through contractors. At Hanford the General Electric Company is the prime contractor for all activities—construction, operations, and services. At Los Alamos the University of California is the contractor for scientific work, but the management of the construction program and the town is contracted to a local concern, the Zia Company. The major contractor at Oak Ridge is the Carbide and Carbon Chemicals Company, a subsidiary of Union Carbide and Carbon.

# PACIFIC NORTHWEST INDUSTRIES • THE HANFORD WORKS

## **Agreement with General Electric**

The agreement between AEC and the General Electric Company is a document comprising 68 pages plus amendments and appendices. In essence, it provides for management of this huge enterprise by G. E. on a cost-plus basis with a return to the company of exactly one dollar. The du Pont Company, which handled the development of the project during the war, operated on the same basis. All new discoveries are reported to the Commission and, under the terms of the law, become the property of the government. The Commission itself has less than 400 employees at Hanford Works. All construction contractors and all commercial enterprises in the area do business with G. E. rather than directly with the government.

## **Physical Lay-Out**

Physically Hanford Works is scattered over 396,000 acres or 620 square miles. Richland, the city of 20,000 created out of nothing to serve the project, is at the Southeast corner of this area, near the junction of the Yakima and Columbia Rivers. The plants, of which there are several, are located as much as 35 or 40 miles from Richland. Of the entire project area, some 79,000 acres were public domain before the war. Another 127,000 have been purchased outright, and the remaining 190,000 are leased. The Government is now engaged in purchasing the leased land in order to establish permanent boundaries.

Most of this land was and still is desert. The government's holdings include, however, 50,000 acres of the Wahluke Slope scheduled for irrigation as part of the Columbia Basin Project. The precise permanent boundaries of the Hanford reservation have not been fixed in this area, but it is likely that AEC will retain the 50,000 acres and further request that the development of the entire Wahluke Slope be delayed indefinitely. The Slope in its entirety comprises 238,000 acres, including 156,000 irrigable which are 15% of the entire Basin Project.

In addition to Richland, the Hanford area includes two other towns whose names have been associated with the development. The first is Hanford, which is some 25 miles up the Columbia River from Richland. During the war Hanford was the headquarters of the vast construction program and reached a population of 51,000 late in 1944. Today it has been completely evacuated and its buildings, all temporary, have been removed for other uses. The second town is North Richland, which is the headquarters of the present construction program. North Richland is five miles north of Richland and has a population of 13,500. The town consists of dormitory and barracks accommodations for 6,000 persons, 2,200 trailer shelters occupied by privately-owned trailers, and 200 pre-fabricated houses, the latter for the families of supervisory personnel. The one-story barracks were moved from Hanford, the two-story barracks and a hospital from the Pasco Naval Air Station, and the 200 houses from a project near Bremerton. North Richland has a certain life of four or five years, the duration of the present construction program. It probably will continue beyond that period, since permanent construction activity of some magnitude is more than likely.

## **Current Expansion Program**

Currently the construction program at Richland includes 1,000 new homes, enlargement of the high school, a junior high, two grade schools (one of them at North Richland), and enlargement of three other grade schools. In addition, sites are being prepared for new central and residential business districts which will include 94 facilities. These things can be seen by anyone. The largest part of the construction activity, however, is within the barricaded area where the plants are located. Part of this activity involves entirely new facilities; part is directed to adapting the original plants to the latest developments in atomic research. This is a program of several years duration. Meanwhile, Richland will become a city of 25,000 population by next summer and may grow somewhat beyond that. North Richland, the construction town, will remain at approximately its present size throughout the plant construction program, since every effort is being made to avoid peaks and valleys of employment.

## **History of the Project**

The history of Hanford Works is highlighted by the following events:

### *December, 1942—Site Selection.*

Hanford was selected primarily for four reasons: (1) Isolation, (2) Small number of residents to be displaced, (3) Electric power supply, and (4) Availability of cold water. Hanford Works has pumping facilities adequate to furnish water for a city the size of New York. The power consumption still is restricted information.

### *March, 1943—Ground broken.*

By this time the difficult task of land acquisition was sufficiently advanced to permit the start of construction. The project at this time and throughout the war was under the direction of the Manhattan District of the Army Engineers and was contracted to E. I. du Pont de Nemours and Company.

### *November, 1944—Peak of construction; first operations.*

Hanford had grown from a town of 500 to 51,000; the project was employing 45,000 workers. At about this same time the first atomic pile was placed in operation.

### *August, 1945—Hiroshima and Nagasaki; end of the war.*

The first use of the atomic bomb removed the veil of secrecy from Hanford. Until this time practically none of the workers, even in the plant area, had any idea what product was being manufactured.

### *August, 1946—Atomic Energy Act passed.*

Congress made the decision for civilian control and created the AEC as the administrative agency. This was followed by the lengthy controversy over confirmation of Lilienthal which delayed the actual transfer of authority to the Commission.

### *September, 1946—G. E. replaced du Pont as prime contractor.*

Du Pont had requested release from this responsibility after the war since its interest is not primarily in the field of nucleonics. G. E. was selected because of its outstanding work in this field.

### *January, 1947—AEC replaced Manhattan Engineers.*

Officially, the AEC took over at midnight, December 31, 1946. Carleton Shugg, the first civilian manager, was not appointed until September, however. Under civilian control the name was changed from Hanford Engineer Works to Hanford Works.

### *August, 1947—Expansion program announced.*

AEC announced the program of expansion which is now in progress. Richland at that time had a population of 15,000 or 16,000.

# PACIFIC NORTHWEST INDUSTRIES • THE HANFORD WORKS

## Organization—AEC and G. E.

In large part the AEC organization at Hanford is merely representing the interest of the government in matters which have been contracted to G. E. This requires very little staff, but staff of high calibre. In certain matters, however, AEC has primary responsibility. These include security, acquisition of land, administration of several outside contracts, and relationships with local governmental units.

The Commission staff is small relative to the size of the project—less than 400 altogether. Only a handful of scientists are required directly on the government payroll. The top men represent a variety of backgrounds in government and private employment.

In the G. E. organization, the Hanford operation is known as the Nucleonics Department, one of eleven major departments in the company headed by a vice-president and general manager. Several of the leading scientists and, of course, practically all of the lesser personnel, were taken over from the du Pont staff which developed the project during the war.

Until recently the government has barred collective bargaining in the operation of the project by an agreement with NLRB not to hold union elections. This policy has been rescinded, and currently the A. F. of L. is engaged in organizing project workers.

## Sub-Contractors

Dozens of sub-contractors and sub-sub-contractors contribute to the total of 16,000 construction workers in the Hanford area. The largest are Atkinson-Jones, which has the major contract in the plant area; and Nettleton-Baldwin-Anderson and Sound Construction Company, a combination which is building 1,000 ranch-type houses in Richland. Atkinson-Jones is a joint venture of the Guy F. Atkinson Company of San Francisco and the J. A. Jones Construction Company of Charlotte, North Carolina, represented at the site by Mr. John Davidson. The head man on the job for Nettleton-Sound is L. E. Baldwin.

Several other contractors should be mentioned:

Morrison-Knudsen Company of Boise—industrial plant construction.

L. G. McNeil Company of Los Angeles—Richland school expansion program.

J. A. Terteling and Sons of Boise—Richland services and utilities.

C. C. Moore and Company of San Francisco—boiler plant installation in North Richland and the plant area.

## Notes on Project Operations

Much of the activity at Hanford holds no more interest for the outsider than the working of any large business or industrial organization. A few particulars, however, point up the magnitude and unique character of the development:

**Manufacturing.** Within the manufacturing divisions of G. E. the real core of the plutonium-making process is contained in two units with the un-revealing titles of "P" and "S" divisions. Production is on a 24-hour per day, seven-day week basis. Most of the jobs in manufacturing are not technical, although more than 200 college graduates are employed. Employment on production, of course, is far less than G. E.'s total of approximately 9,000, since the total includes such varied supplementary activities as running the town, supervising construction, and developing safety devices. Since many members of the manufacturing force are on shift

work, the number of workers actually engaged in production of plutonium at any one time is comparable to other industrial operations of rather moderate size.

**Technical.** The technical divisions contain most of the brain power. Here are the scientists whose job it is to insure the safe operation of control systems and to develop greater efficiency in the production process. Here again the three divisions have been given nondescript titles: "100", "200", and "300" Technical. In addition to Dr. Greninger, who is in charge of this work, the prominent scientists include Dr. O. H. Graeger, Dr. C. W. J. Wende, and T. W. Hauff, who head the three divisions; and Dr. Paul Gast, Dr. W. K. Woods, and Dr. F. W. Albaugh.

**Security.** It is common knowledge that all new employees on the project must undergo a thorough investigation by the F.B.I. This applies both to employees of the Commission and of G. E. Applicants for commercial leases at Richland and North Richland likewise are subject to a security check. Indirectly, this process has more results than just weeding out subversives, since credit rating, character, and morals are considered in rating the desirability of prospective employees. Another aspect of the AEC security program is the protection of shipments of atomic materials. There is also a government air patrol which covers the plant area to spot unauthorized vehicles and individuals and to prevent aircraft from flying over the area. It is noteworthy that the air base at Moses Lake has been reactivated and that one of its principal responsibilities will be air protection for the Hanford Works.

**Safety.** The safety record at Hanford is the best of any G. E. manufacturing works, the best of any atomic energy installation, and one of the best for any type of plant in the United States. In 1947 there were 0.81 lost-time injuries per million man-hours worked, which compare with 5 to 6 per million man-hours in most plants of this general type.

**Health Instruments.** One of the proudest boasts of Hanford management is the complete success of safeguards against radiation injuries. The health instrument divisions of Hanford Works provide detection instruments in the manufacturing areas, recommend maximum exposure levels, and conduct research on the effect of radiation on living tissue. Personnel in areas subject to radiation wear film badges and pocket meters which immediately warn of harmful rays. The average worker is exposed to no more radiation in a year than he would receive from an annual chest X-ray.

**Medical.** The medical divisions operate a modern hospital (Kadlec Hospital), a medical and dental clinic, and industrial and public health programs. There are 30 doctors and 13 dentists in general practice, 10 doctors in the industrial program and one in public health. All receive a guaranteed income from General Electric. Charges to the residents are comparable to other areas.

**Cooperation with Local Governments.** The Atomic Energy Act makes provision for payments to local governmental units where the Commission finds that the burdens placed on such units exceed the benefits. The Federal government built the schools in Richland and North Richland, but their operation was turned over to county-state jurisdiction. The residents of Richland pay all taxes except property taxes, but the apportionment of state funds for the schools does not keep pace with the population growth. Accordingly, the Commission last year contributed \$573,000 to the \$1,400,000 budget of the Richland schools. An additional \$750,000 (which includes the purchase price of several school buses) was allocated to outside school districts. No financial assistance has been given to outside communities for facilities other than schools, although there has been heavy local pressure for the Federal government to finance sewage and other improvements. This is true particularly in the Kennewick area, where water supply and sewage disposal are major problems. The Commission's attitude has been that local communities cannot expect Uncle to bail them out of all their problems, and that the benefits to local business from the project more than offset the cost of needed improvements. Currently the Commission has hired an impartial research organization to determine the amount of its responsibility, if any.

**Community Management.** In effect, the mayor or city manager of Richland is E. L. Richmond, who heads G. E.'s Richland Community divisions and has the title of Community Manager. There is no city government, but the residents shortly will elect an advisory council. There has for some time been an appointed advisory council, and in every way possible the desires of the residents have been controlling in the development of the community. The community manager not only runs the police depart-

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RICHLAND, WASHINGTON—1948

ment, fire department, water works, sewage system, and steam plant; he also manages all of the housing, including repair, repainting and re-decorating, and plans and leases all commercial facilities. Naturally, the manager has a very sizable staff engaged in these activities. He also makes use of outside consultants. Among these have been J. Gordon Turnbull and Associates, engineers and city planners; and Graham, Anderson, Probst and White, architects.

### The Development of Richland

Richland is by all odds one of the most unusual cities in the world.

It has a very young population and a birth rate of 35 per thousand, 21% above the national average. Kadlec Hospital has delivered more than 2,000 babies.

It has a population of unusual intelligence, and probably the highest family income in the country, about \$3,800 per year. There is no wealth and no poverty.

It has no major crime, and had no traffic fatalities in the last year.

It has no privately owned homes, no city government and no property tax.

It ranks with the 10 largest cities in the state, but delights in calling itself "The Village."

Richland was first planned as a city of 16,000, which was adequate to serve the Hanford operation on the scale provided by the original construction program. The homes and the commercial facilities were largely built as permanent structures, sharing some of the shortcomings of other wartime construction, but generally adequate for a modern, planned community. Last year, before the

new expansion program was announced, Richland's population was about as planned, but more commercial facilities still were needed. Since then the population has increased to 20,000 with the expectation of 25,000 by next summer. A major expansion of commercial facilities is planned.

When the present residential program is completed, there will be 5,683 family dwellings in Richland, plus some 15 or 20 "tract houses" (structures constituting the village of Richland before the war), and dormitory accommodations for about 1,000 single persons.

### FAMILY HOUSING – Richland

Original program .....	3,840
Pre-fabs .....	1,333
Standard duplex .....	1,856
Standard detached .....	651
1947-48 program (completed) .....	843
Pre-cut .....	450†
Standard .....	329‡
Apartments .....	64
1948-49 program .....	1,000 (all ranch-type homes)

†Built by John L. Hudson Co. and known in the community as "Hudson houses."

‡Built by Atkinson-Jones; "A-J houses."

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About 250 of the new homes are completed and occupied. For the other 750 there are 700 more applications than there are houses. This virtually assures that there will be a further home construction program if the Commission can get the money from Congress. This year there is no further authorization. The applicants for housing all are persons already on the permanent payroll of G. E., the Commission, or commercial facility operators. Some are waiting to bring their families, some live in the surrounding area, and some are doubled up with other families in Richland.

The "master plan" for Richland calls for 94 additional business enterprises where today there are only 38. They run the gamut from groceries to fur stores to camera shops to pool halls—everything a normal community needs. The plan includes a second central commercial area a mile north of the present one; also the development of several new neighborhood shopping centers. The plan is based on a population of 25,000, but sufficient space is being reserved to accommodate facilities for 35,000.

Originally, the government constructed the necessary buildings and permitted their operation on a use permit. That no longer is the plan. Today land is available on long-term lease for private capital to construct its own facilities, either individual buildings or shopping centers to be sub-leased. This reflects two things: first, the desire of the management to make Richland as nearly like a normal city of its size as possible; and second, the judgment that the permanence of the community justifies the encouragement of private capital investment.

G. E., under its contract with the Commission, handles the selection of all commercial operators. Selection is made on the basis of experience, trade connections, character and financial resources, as well as the rental bid. The bid, generally expressed as a percentage of gross, must be sufficient to cover electricity and water, which are not metered in Richland, plus sewage, municipal services and a reasonable return on the land. The first step for interested operators is that of contacting G. E.—the Commercial Facilities Division, Building 761, Richland, Washington. The telephone is Richland 248 or 384. This division is headed by R. J. Pederson and is one of the activities under the general direction of E. L. Richmond, the Community Manager.

Usually an applicant first is given some general information and an application form which covers his experience and background. Subsequently, when there is an opening for a business of his type, he is invited to bid in accordance with specifications established by G. E.

## Growth of the Tri-City Area

Pasco has grown from 3,900 population in 1940 to 8,000; Kennewick, from 1,900 to 6,800. The Tri-City area—Pasco, Kennewick, Richland and their environs—has a population close to 65,000. Some notion of the area's growth can be derived from the state's records on taxable retail sales in Benton and Franklin Counties. Richland and Kennewick are the principal cities in Benton County, Pasco in Franklin County.

## TAXABLE RETAIL SALES

Benton and Franklin Counties

Fiscal year*	Total sales	Percent of state total
1937-38 ..... <i>(pre-war)</i>	\$ 3,312,000	0.56%
1941-42 ..... <i>(early war period)</i>	5,415,000	.50
1943-44 ..... <i>(Hanford under way)</i>	16,371,000	1.21
1944-45 ..... <i>(construction peak)</i>	31,253,000	2.06
1946-47 ..... <i>(post-war)</i>	22,006,000	.95
1947-48 ..... <i>(new program started)</i>	36,405,000	1.39
May-June, 1948 ..... <i>(latest data)</i>	8,787,000 <i>(two months only)</i>	1.92

\*Fiscal years ending April 30.

The entire area is booming. In addition to residential construction at Richland, there have been in the past 18 months some 450 new homes in Pasco and 925 in Kennewick. Nettleton-Baldwin-Anderson has announced plans to build 376 homes in one development at Kennewick. Pasco and Kennewick both have an unusually high percentage of home ownership, about 80%. The area, of course, does not depend entirely on the Hanford project for its growth. It is benefiting from irrigation projects, and will benefit further from McNary Dam and the series of projected developments on the Snake River.

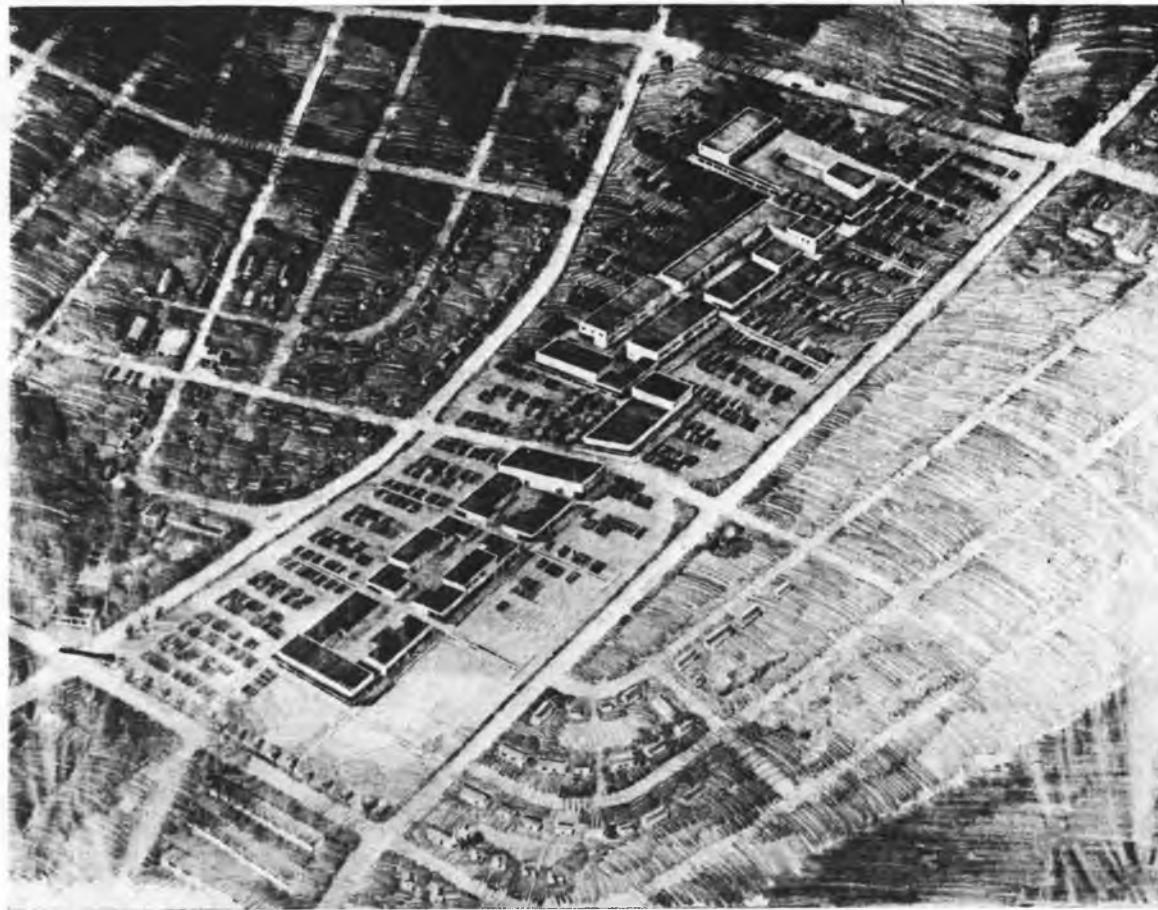
## The Future of Hanford Works

The opportunities for business in Richland are intriguing. The nature of the community—its income, its age groups, its stable population—make it an ideal market. There is virtually no credit risk. The community is almost insulated against business recessions, since the single payroll does not depend on general economic conditions. It is, of course, extremely sensitive to Congressional appropriations, but it appears unlikely that the country will fail to make maximum use of the Hanford facilities in war or in peace.

To some extent, one feels uncertainty about the project because it is so new and so dependent upon a science which the layman does not understand. There comes to mind the sobering thought that some scientist may learn to make plutonium in a bath tub. Obsolescence of the entire plant is, of course, a possibility, but the possibility is very remote. The research out of which Hanford developed is not so new that it will change over night. Nuclear physics dates back at least a generation. The secret of Hanford is not some sleight-of-hand, some secret scientific knowledge that may be out-dated next year; rather it is the tremendous engineering development necessary to apply the discoveries of science in this field.

The plant will have to keep pace with the scientists, of course. But this portends greater activity, rather than less. Above all, the development of peacetime uses for atomic power is likely to make Hanford Works an industry basic not only to defense, but to an expanded peacetime economy. Most of the product being turned out even now may eventually find its way to peacetime uses. Plutonium retains its usefulness for several thousand years.

PACIFIC NORTHWEST INDUSTRIES • THE HANFORD WORKS



*Artist's sketch of the proposed new commercial center in Richland*

**COMMERCIAL ENTERPRISES — Richland, Washington**

	Present Number	Anticipated New Number	Anticipated Total		Present Number	Anticipated New Number	Anticipated Total		Present Number	Anticipated New Number	Anticipated Total
<b>FOOD GROUP</b>											
Combination Stores (Grocery and Meat) .....	5	6	11	GAS STATIONS .....	4	7	11	Photo Studio .....	1	1	2
Milk Dealers .....	1	1	2	LUMBER-BUILDING MATERIAL GROUP				Sporting Goods Stores .....	0	2	2
Delicatessen— Fish Market .....	0	1	1	Lumber-Building Material Dealers ....	0	1	1	Gift Shops .....	0	3	3
Bakeries .....	1	1	2	Heating-Plumbing Equipment .....	1	1	2	Optical Shop .....	1	1	2
<b>GENERAL MERCHANDISE GROUP</b>											
Department Store .....	1	1	2	HARDWARE STORE ....	1	1	2	<b>PERSONAL SERVICE</b>			
Variety Stores .....	1	2	3	LUGGAGE AND LEATHER GOODS STORE .....	0	1	1	Barber Shops .....	1	5	6
<b>APPAREL GROUP</b>											
Men & Boys' Clothing & Furnishings .....	1	2	3	DRUG STORES .....	3	5	8	Beauty Shops .....	1	5	6
Women's Ready to Wear .....	2	1	3	EATING PLACES				Cleaning and Dyeing Plant .....	1	2	3
Women's Accessory Store .....	0	1	1	Cafeterias .....	1	0	1	Laundry .....	1	0	1
Shoe Stores (All Kinds) .....	1	1	2	Restaurants .....	2	3	5	Funeral Director .....	0	1	1
Fur Shop .....	0	1	1	Restaurants (Drive-In) .....	0	1	1	Sewing Center .....	0	1	1
<b>FURNITURE—HOUSEHOLD—RADIO GROUP</b>											
Furniture Stores .....	0	2	2	Malt Shop and Dairy Lunch .....	0	4	4	Custom Tailoring .....	0	1	1
Floor Coverings, Drapery Store .....	0	1	1	Candy Store .....	0	1	1	Shoe Repair .....	1	1	2
Household Appliance Dealers and Electric Shop .....	1	1	2	<b>DISINFECTING &amp; EXTERMINATING SERVICE</b> .....			1	1	1		
Paint Store .....	0	1	1	<b>WAREHOUSE</b>							
<b>AUTOMOTIVE GROUP</b>											
Motor Vehicle Dealers (New) .....	1	4	5	OTHER RETAIL STORES				(Cold Storage) .....	0	1	1
Auto Supply Store.....	0	1	1	Jewelry Stores .....	1	1	2	Warehouse (Others) .....	0	1	1
Garage .....	0	1	1	Book and Stationery Store .....	0	2	2	<b>CABINET SHOP</b> .....			
<b>ENTERTAINMENT</b>											
				Cigar Store and News Stand .....	0	1	1	DRINKING PLACES			
				Florist .....	1	2	3	Taverns .....	1	0	1
				Nursery, Greenhouse & Garden Supply Store .....	0	1	1	Liquor Store .....	1	0	1
				Music Store .....	0	1	1	Beverage Store .....	0	1	1
				Photo Supply— Camera Shop .....	0	1	1	<b>THEATERS</b> .....			
								1 over)	2	1	3
									1	2	
									1	1	2

UNITED STATES  
ATOMIC ENERGY COMMISSION

CLASSIFIED REPORT RECEIPT

POSTAL REGISTRY NO.	CLASSIFIED REPORT RECEIPT	DATE MAILED
		JUNE 3, 1952
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MEH Mk. IV. Vol. 5. Appendix B,C,D, & E	3 A	SECRET	6/4/52

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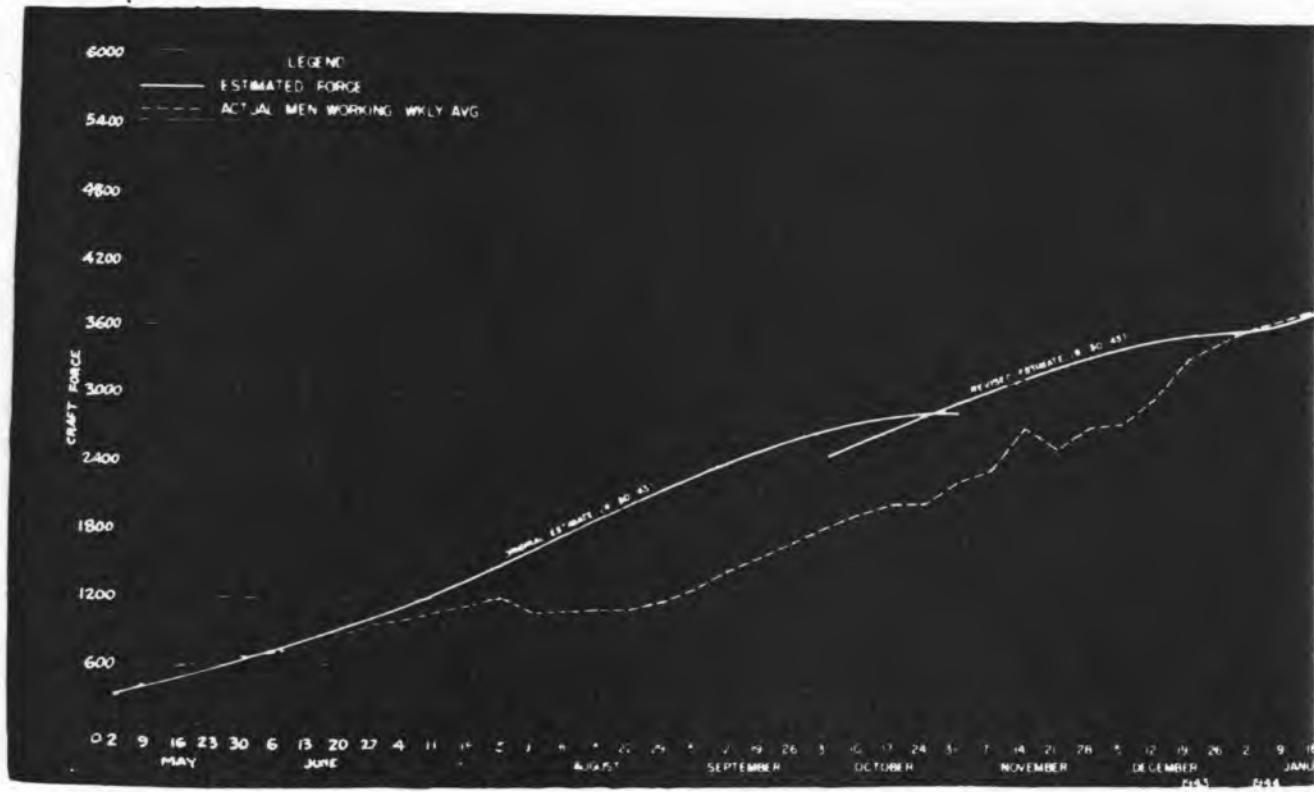
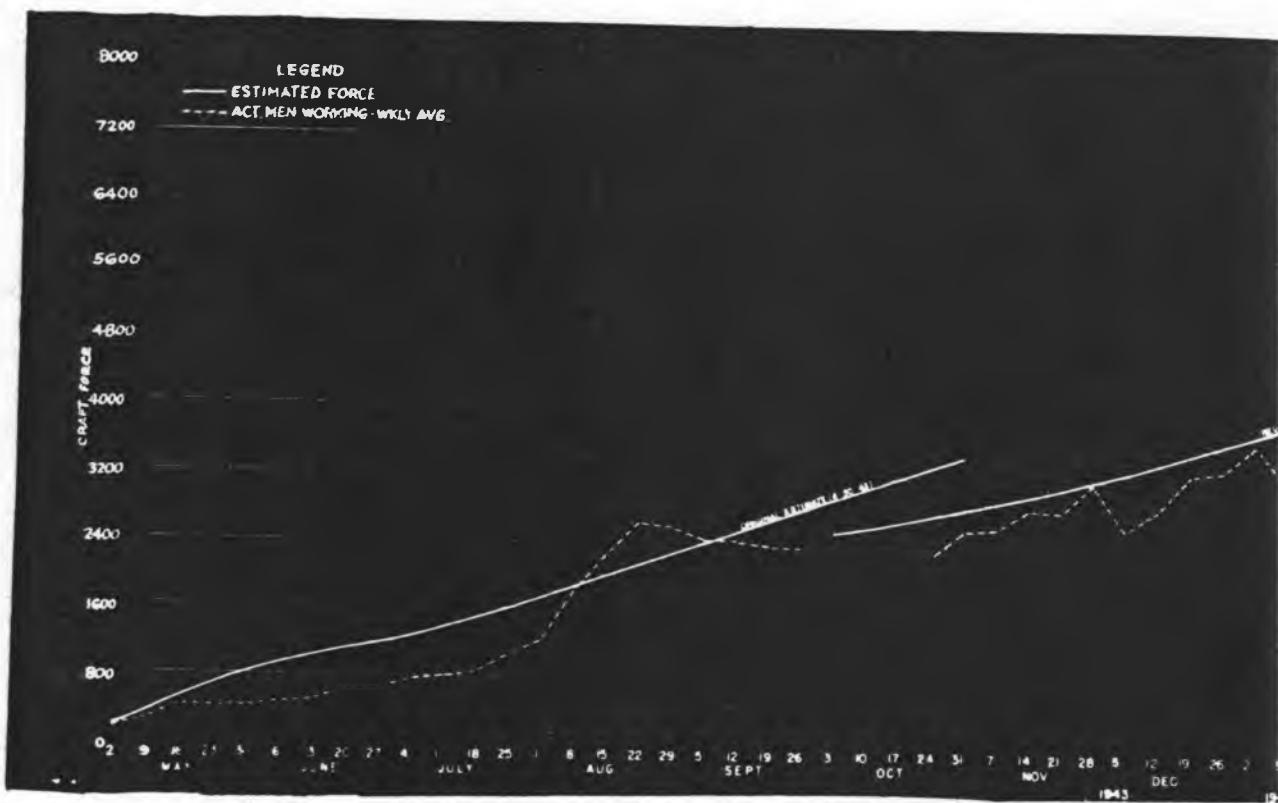
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6/4/52

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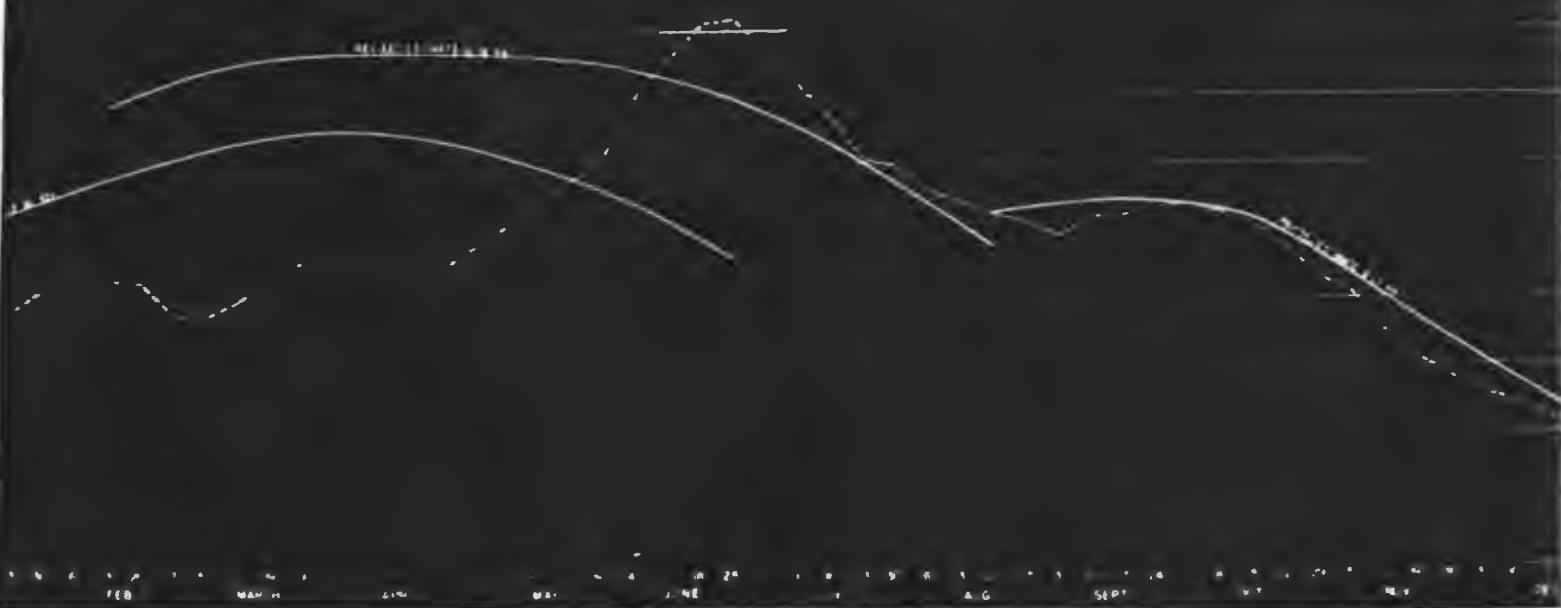
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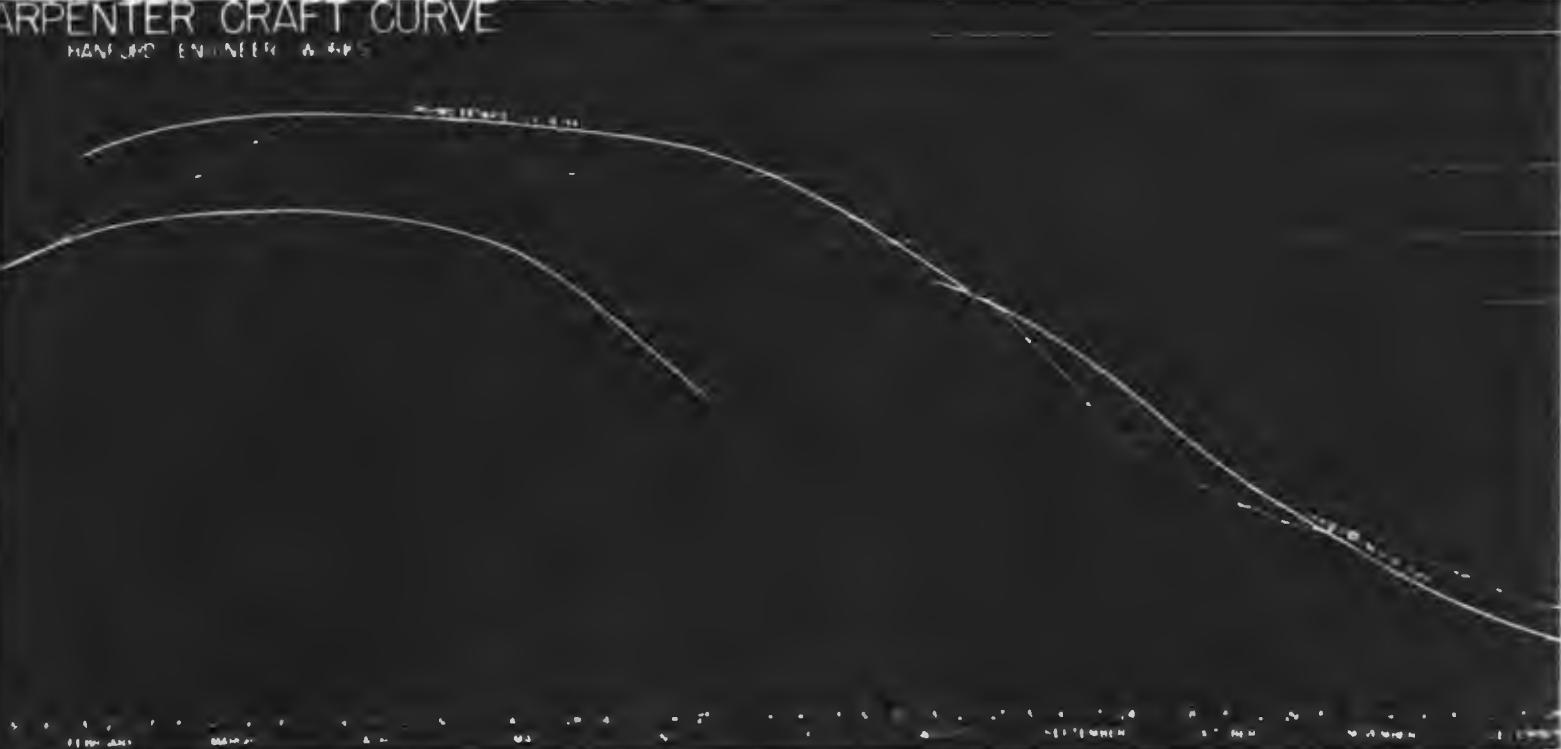
## LABOR CRAFT CURVE

HANFORD ENGINEER WORKS

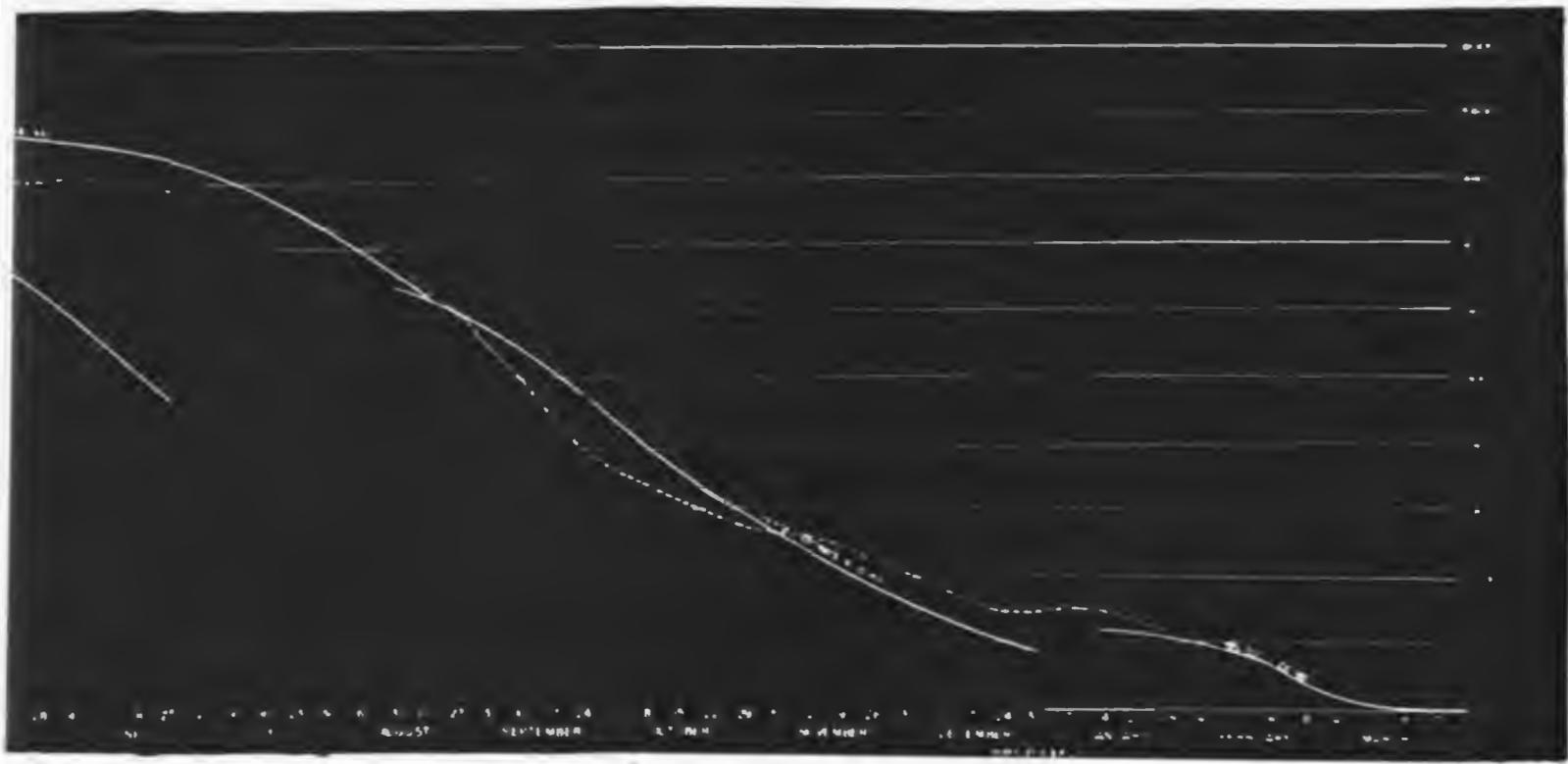
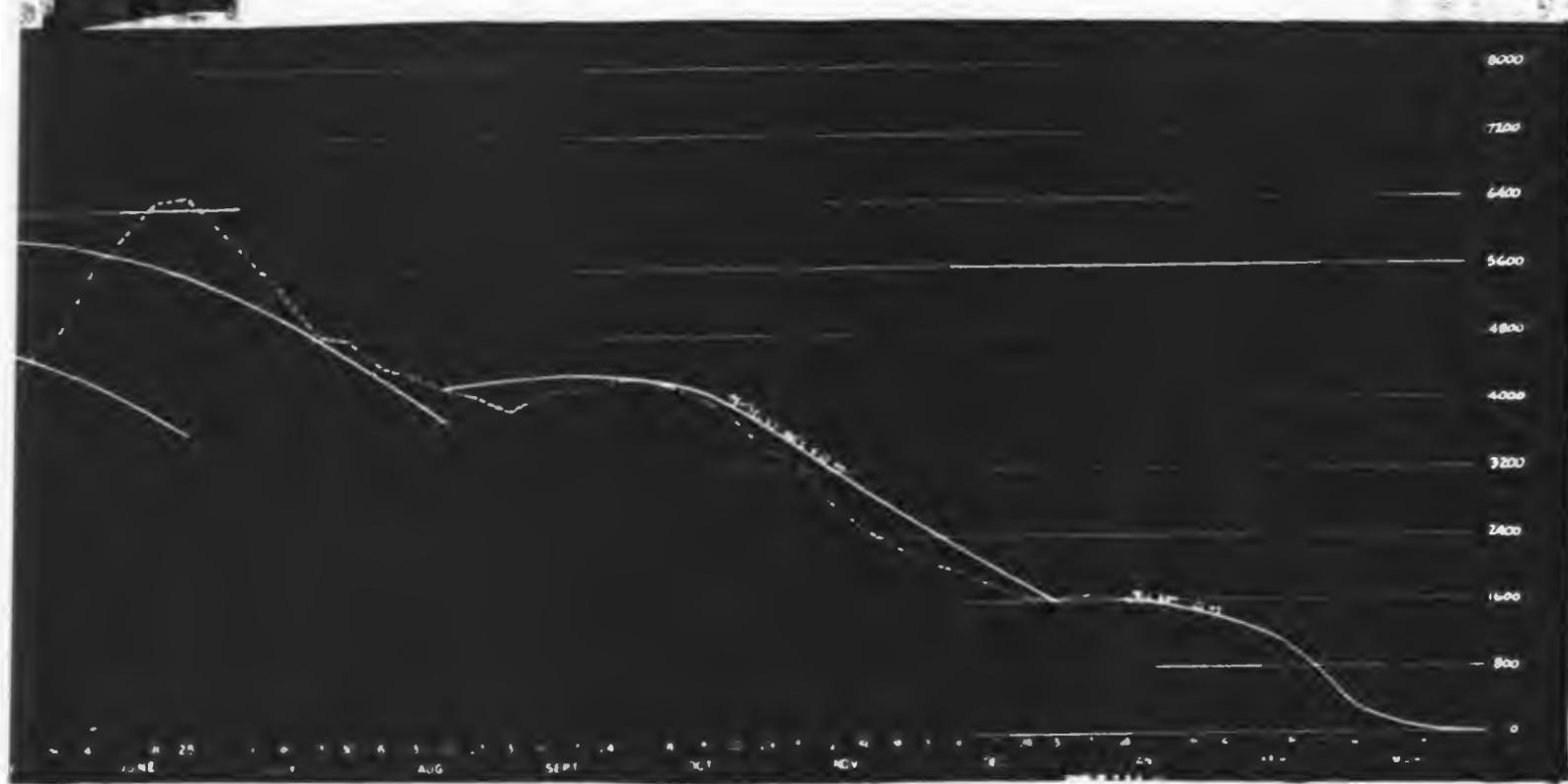


## CARPENTER CRAFT CURVE

HANFORD ENGINEER WORKS



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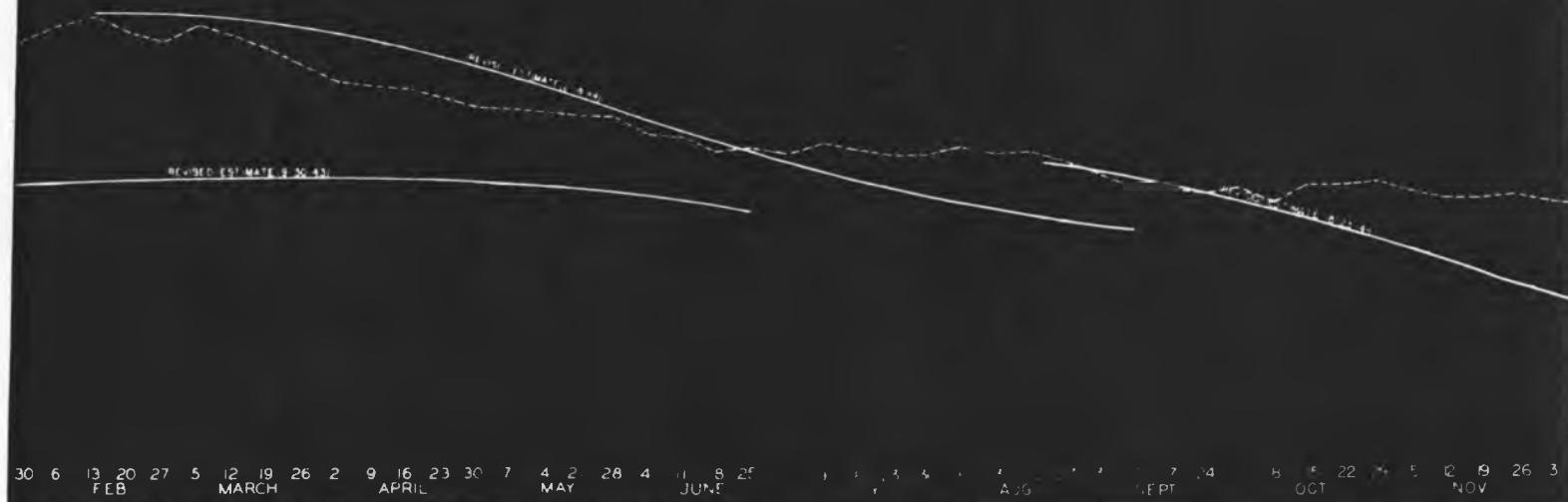
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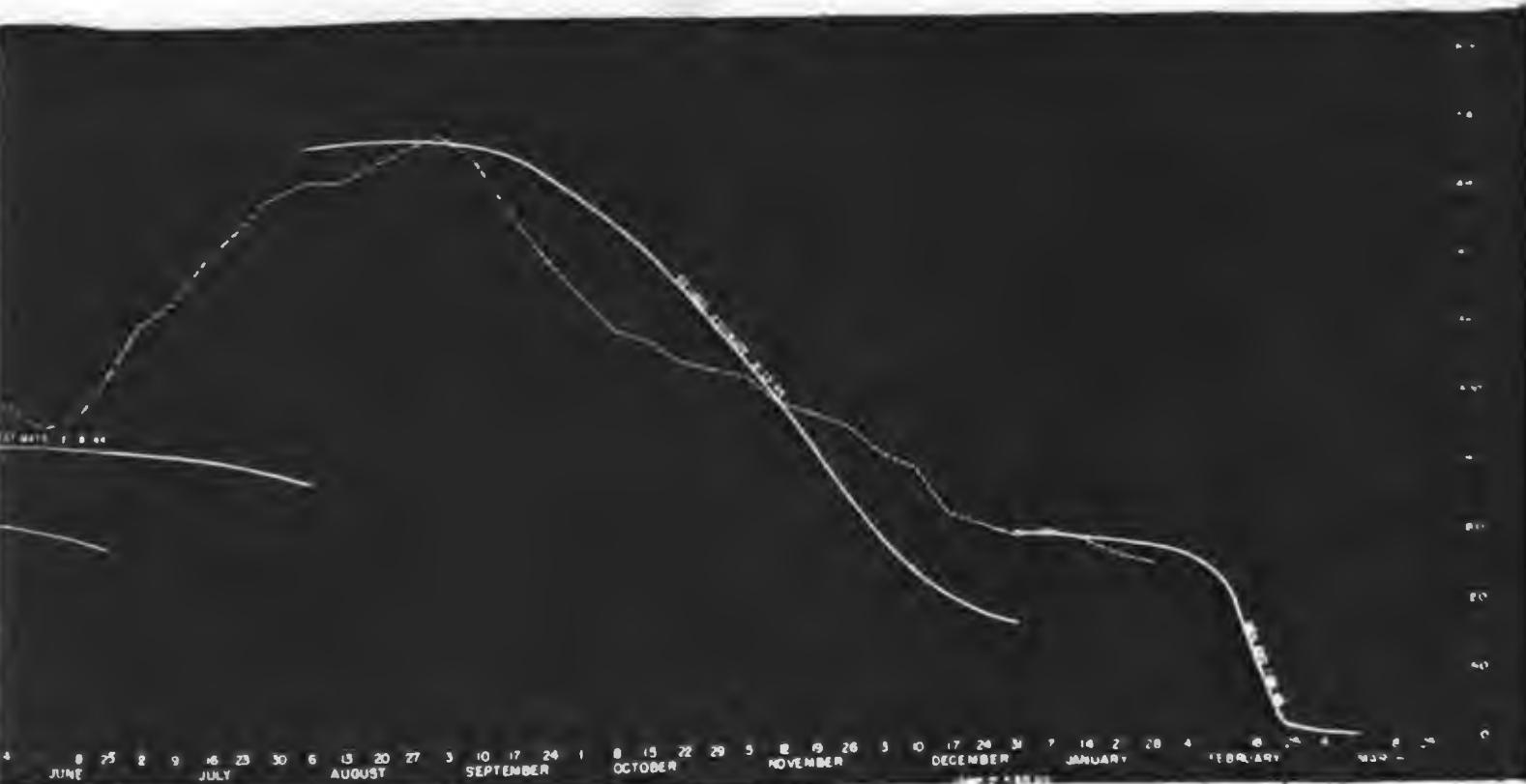
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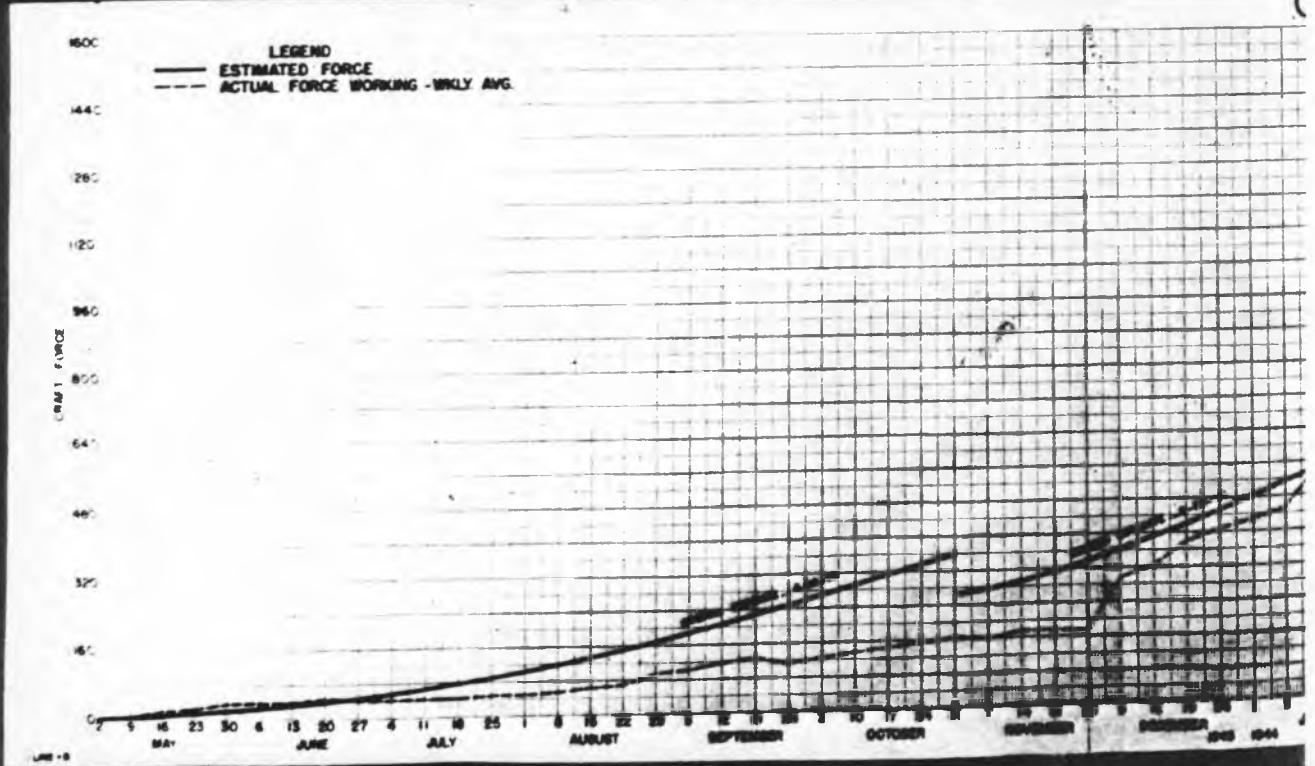
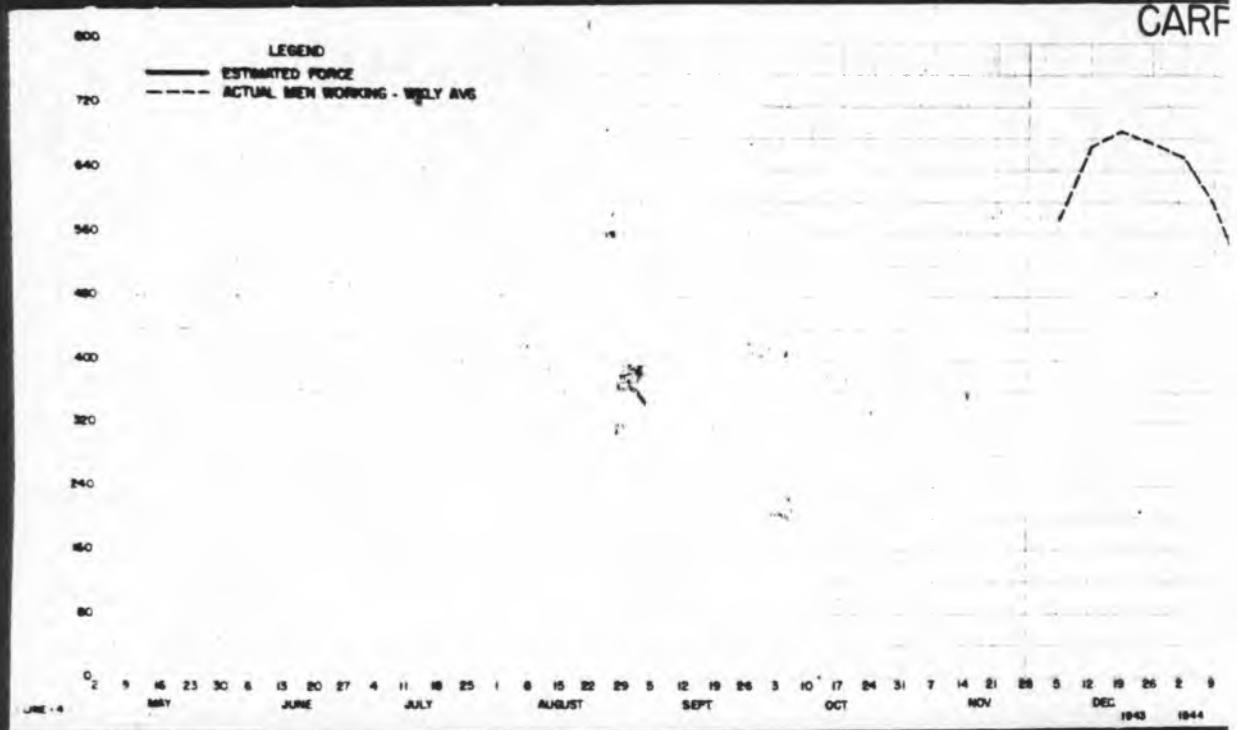
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HANFORD ENGINEER WORKS



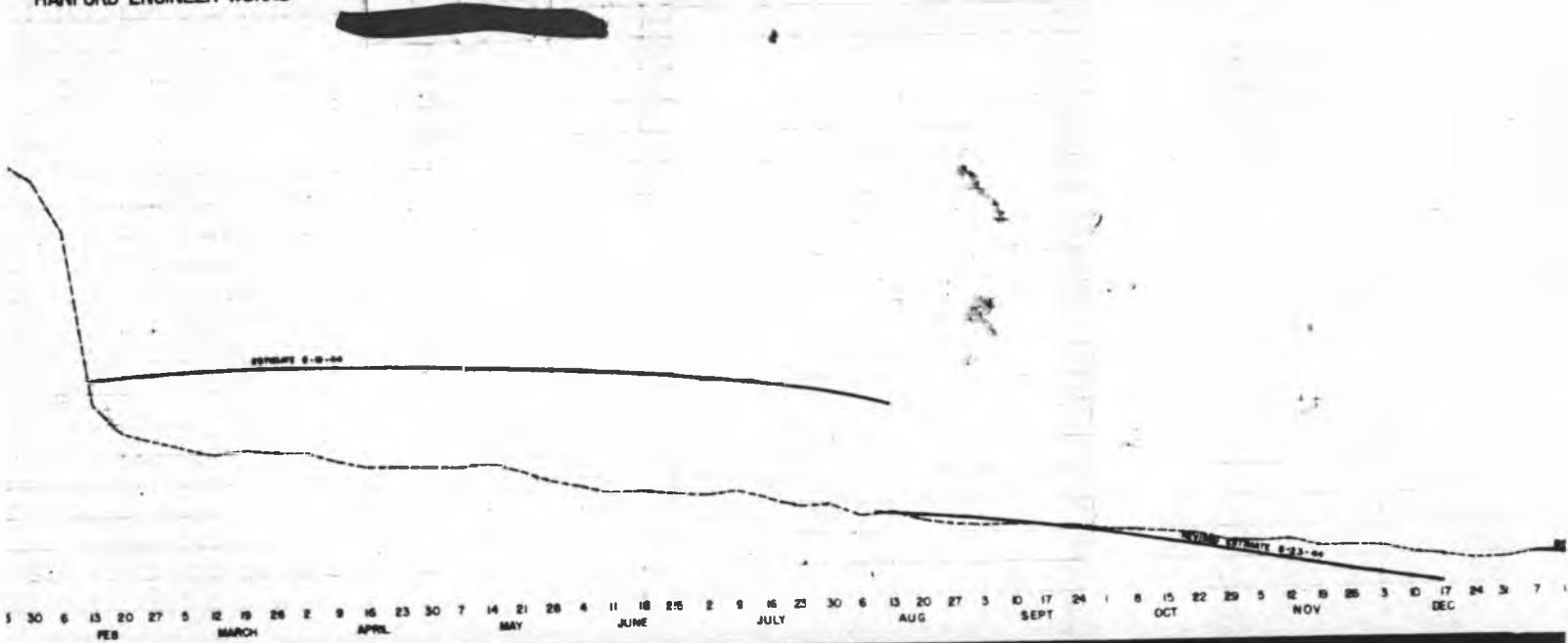


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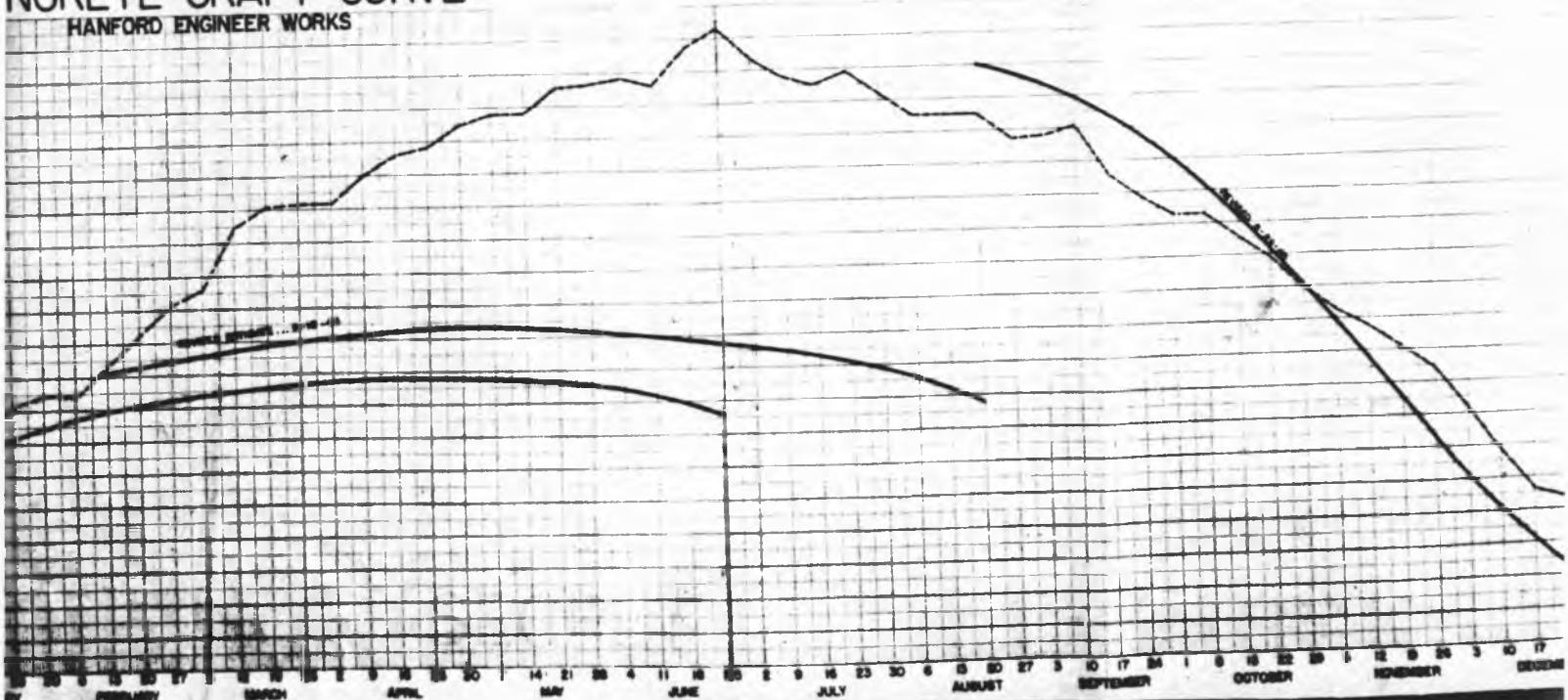
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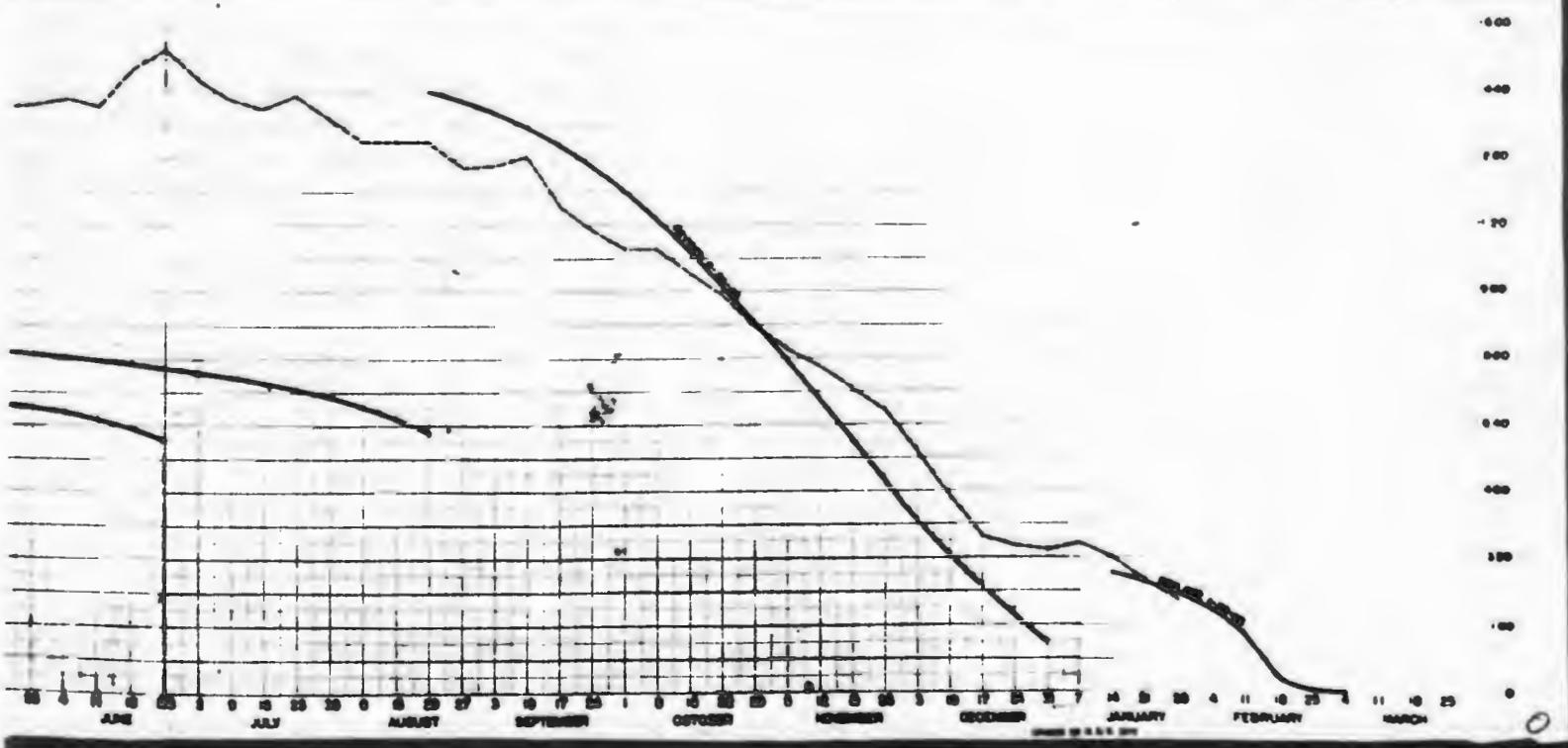
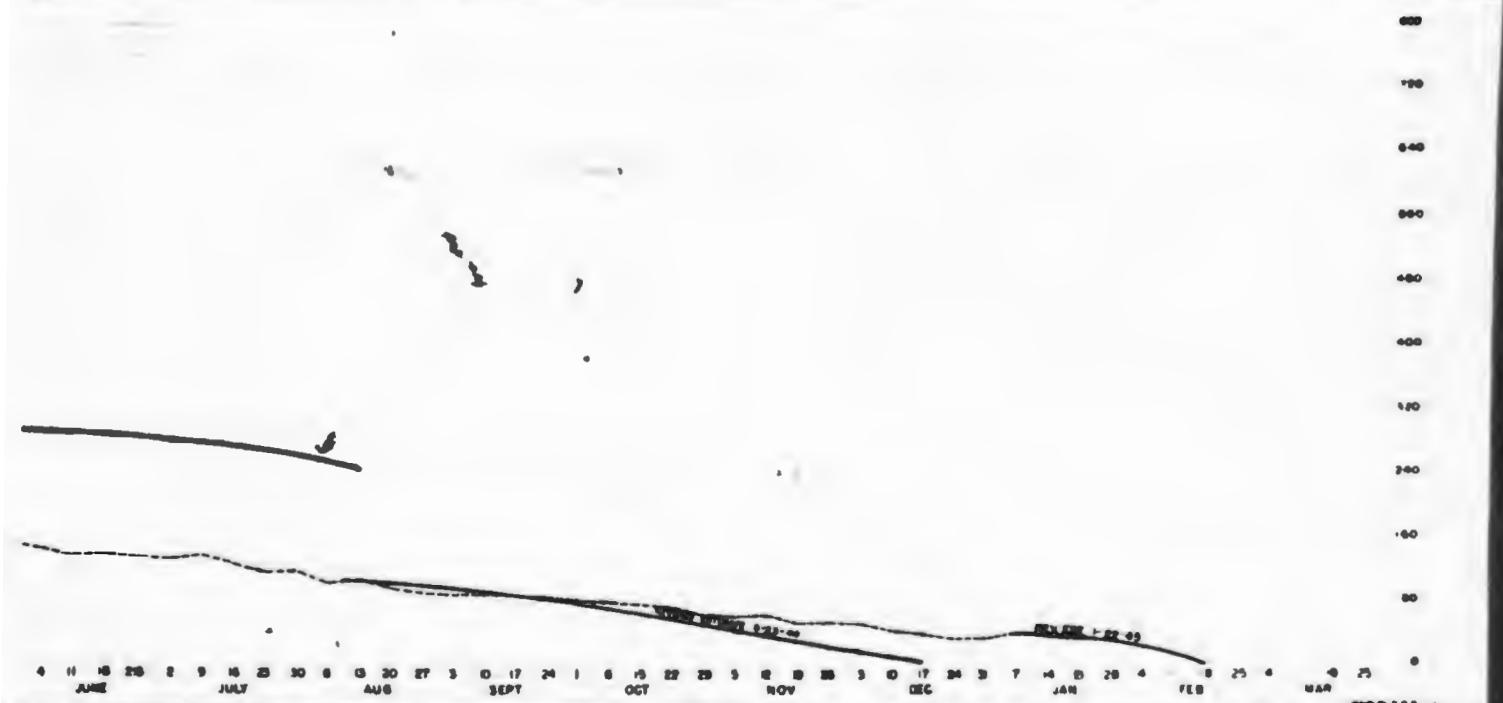
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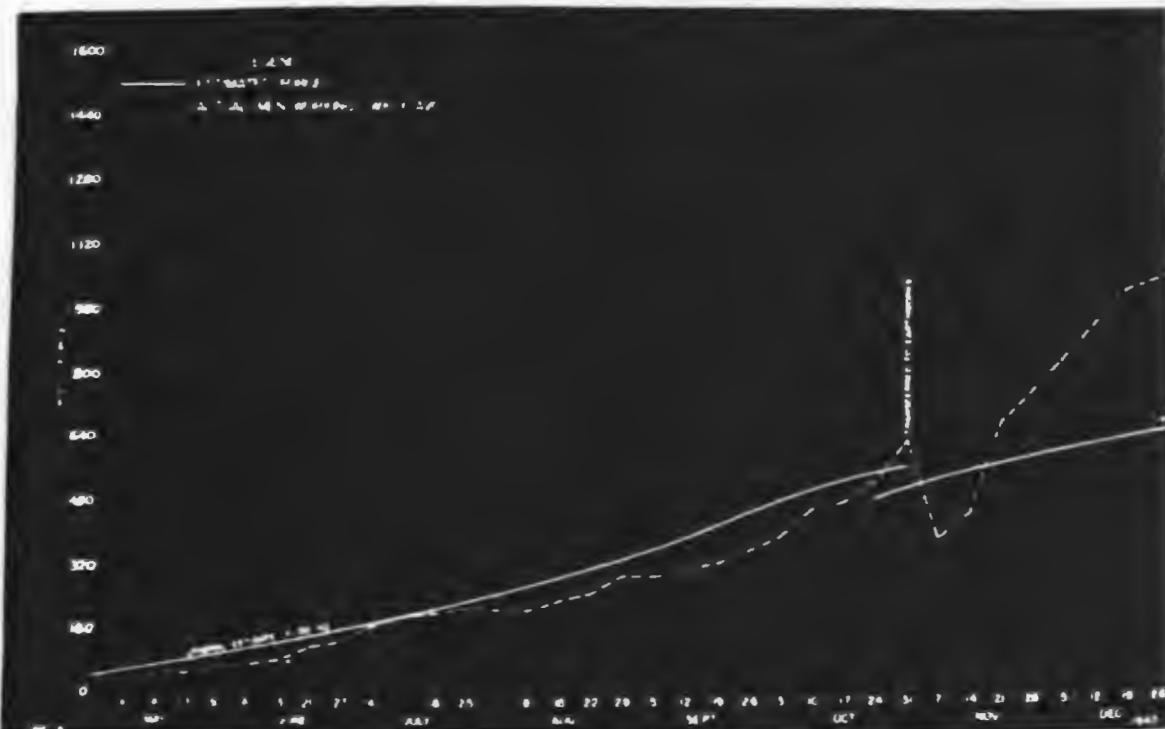
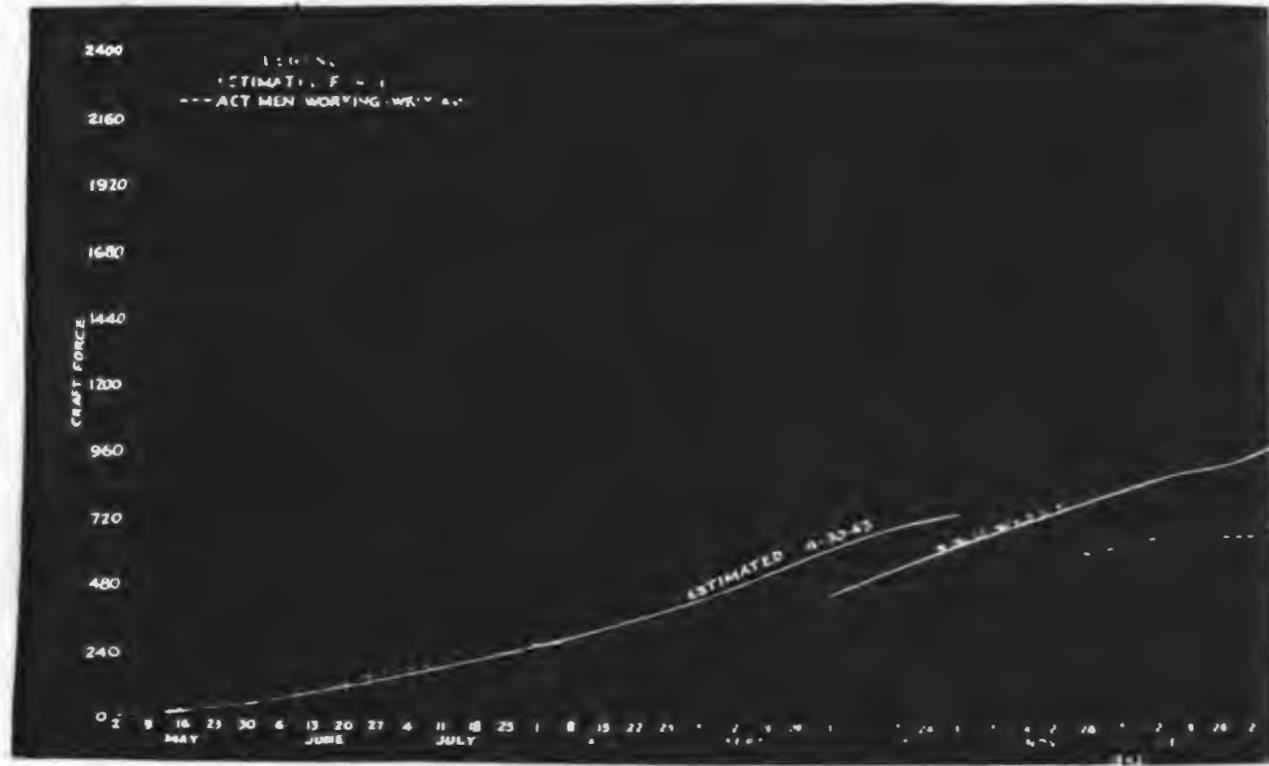


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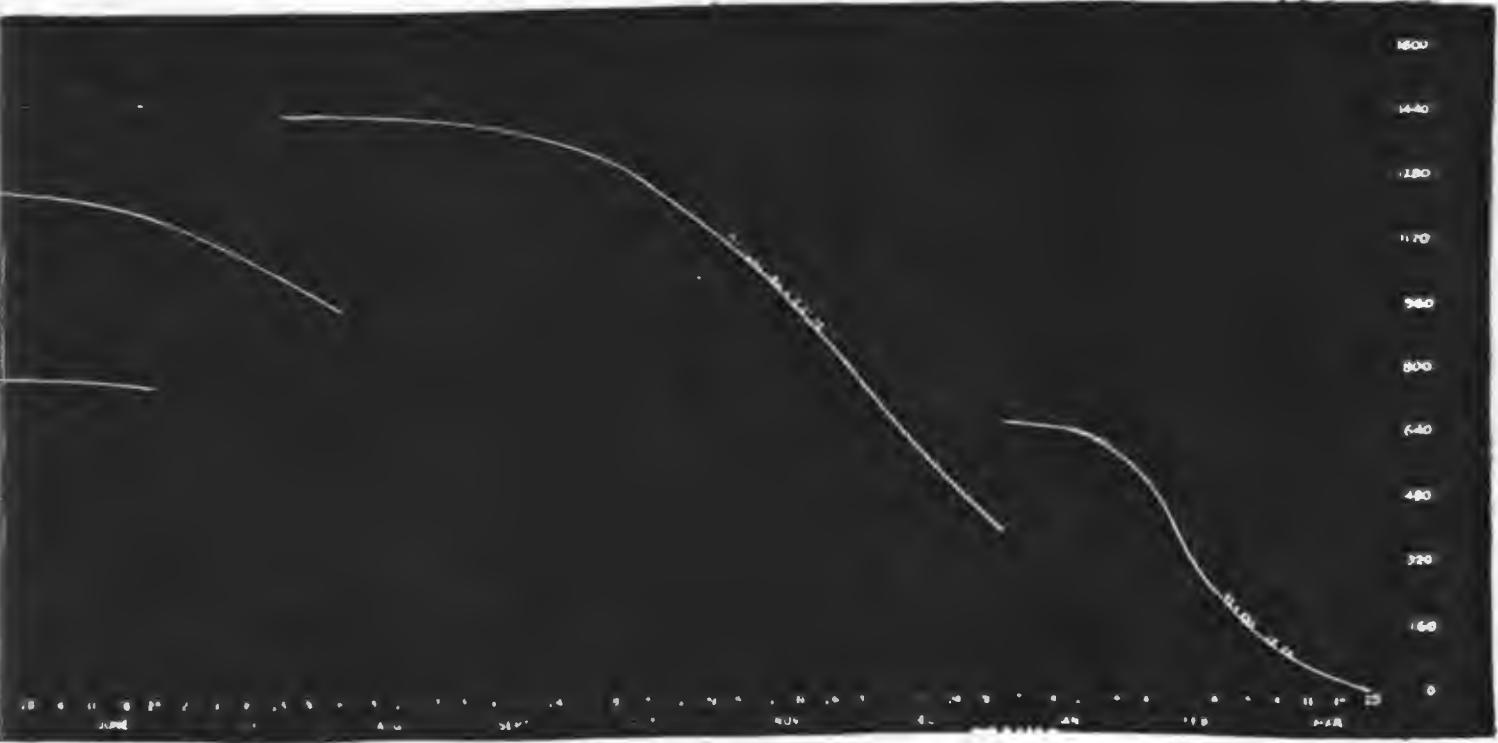
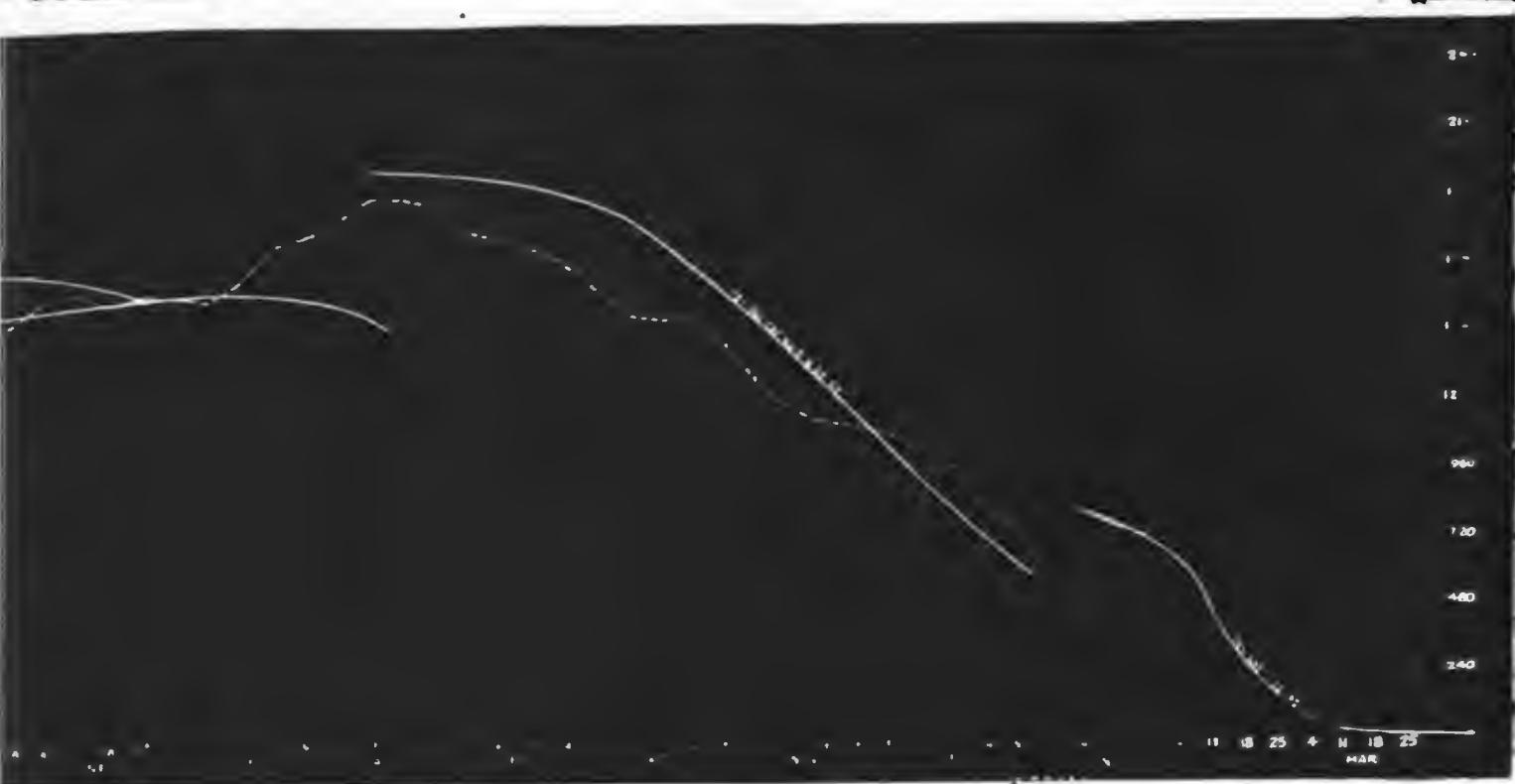
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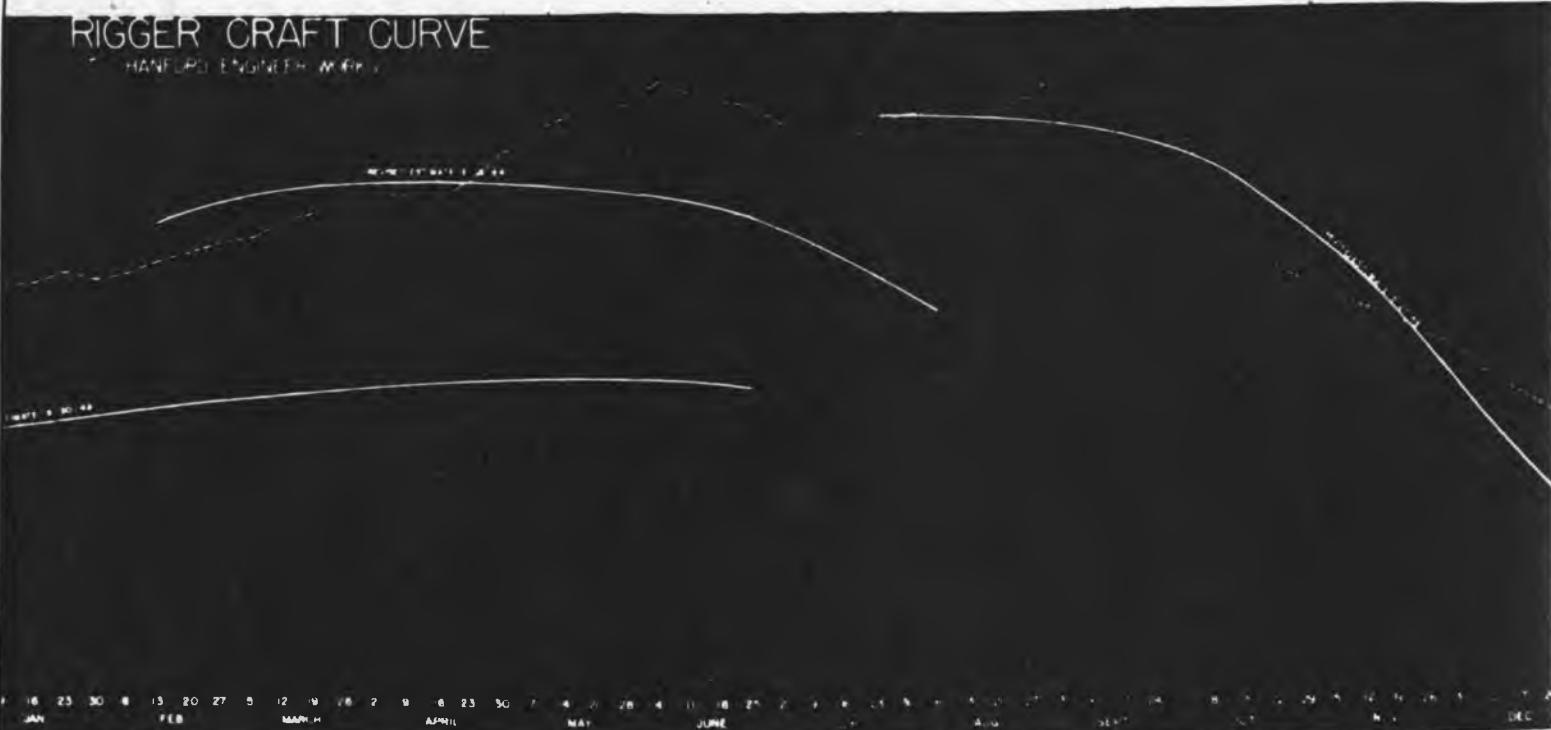
## ELCTRICAL CRAFT CURVE

HANFORD ENGINEER WORKS



## RIGGER CRAFT CURVE

HANFORD ENGINEER WORKS



REINFO

1443

— 27° MARCH 1944  
AT VENICE HARBOR, ITALY

- 5 -

- - M A T T E R S  
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**SECRET**

# RCING STEEL CRAFT CURVE

HANFORD ENGINEER WORKS

REVISED ESTIMATE Z IS 44

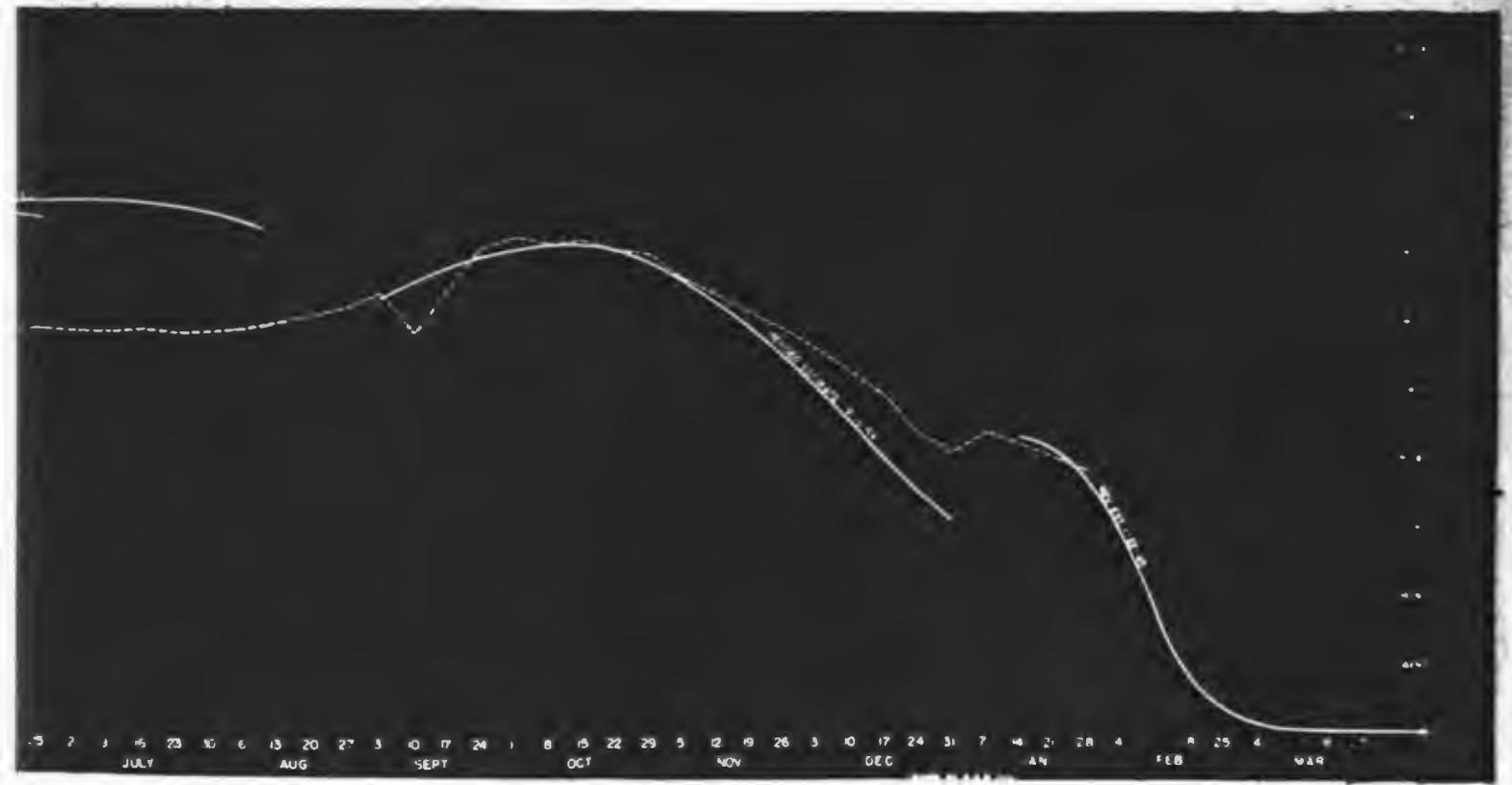


# PIPING CRAFT CURVE

HANFORD ENGINEER WORKS



**SECRET**



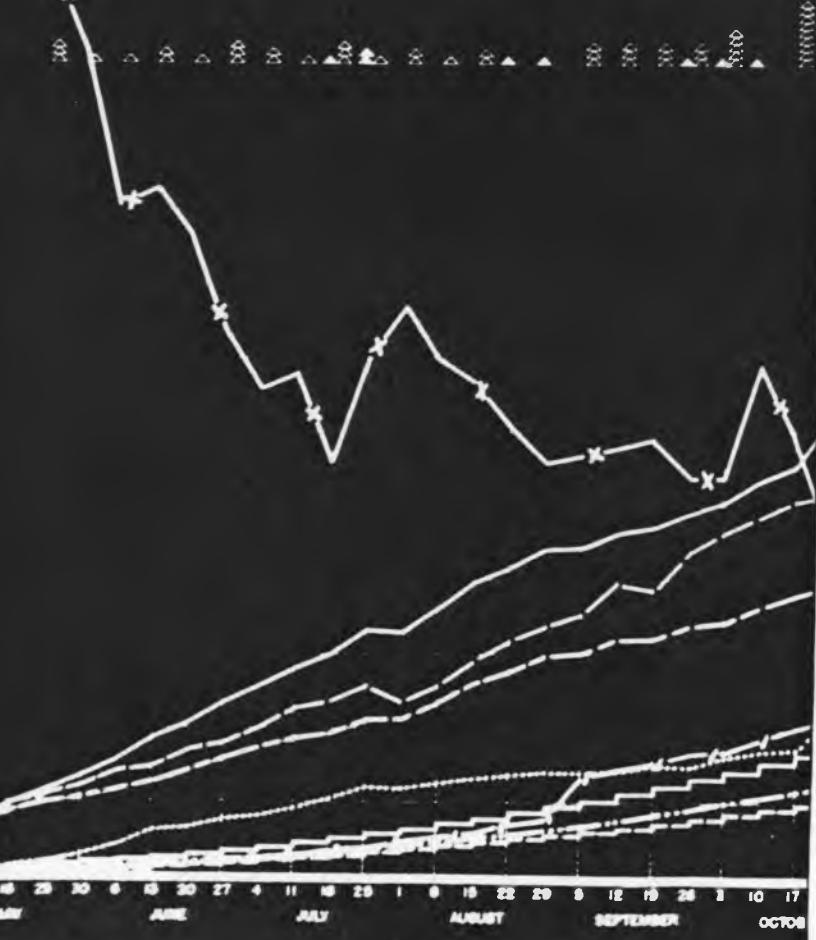
WORK STOPPAGE REPORT

<u>DATE</u>	<u>CRAFT</u>	<u>REASON</u>	<u>ACTION TAKEN</u>	<u>MAN HOURS LOST</u>
7 February to 8 February 1944	Welders - Heavy Equipment	22 men objected to the transfer of a member of the crew from day shift, contending that the change was influenced by a grudge existing between the Assistant Area Superintendent and welder.	By discussing with the men advising them to present grievances through the normal channels established for this purpose	192
13 March to 13 March 1944	Sheet Metal	13 sheet metal workers refused to start work Monday the 13th, because they had not been permitted to work the preceding Sunday. These men demanded that they be given 70 hours per week, claiming that the other crafts working in this Area were receiving this time and that for the previous three weeks they had worked 70 hours.	Supervision explained to the men that only certain phases of the work, classified as emergency work, was on a 70 hour schedule and as soon as practicable, these phases would be returned to the normal 54 hour work schedule. This explanation was accepted.	13
7 July 1944 to 8 July 1944	Riggers and Pipefitters	Jurisdictional dispute over the handling of pipe, castings, and fittings which was being claimed by both crafts.	Men returned to work pending official clarification of respective jurisdiction	1260
7 September to 8 September 1944	Steamfitters & Plumbers - vs - Machinists & Boilermakers	Dissatisfaction of certain employees with their Union representatives. Protest of certain UA members to the actions of their duly appointed or elected officers who sent in other Union craftsmen to man the job.	International representative agreed to recognise and consider grievances presented by committee at weekly meetings. Employees elected to go back to work pending settlement with reference to the use of other Union crafts for piping work under jurisdiction of the UA	13595

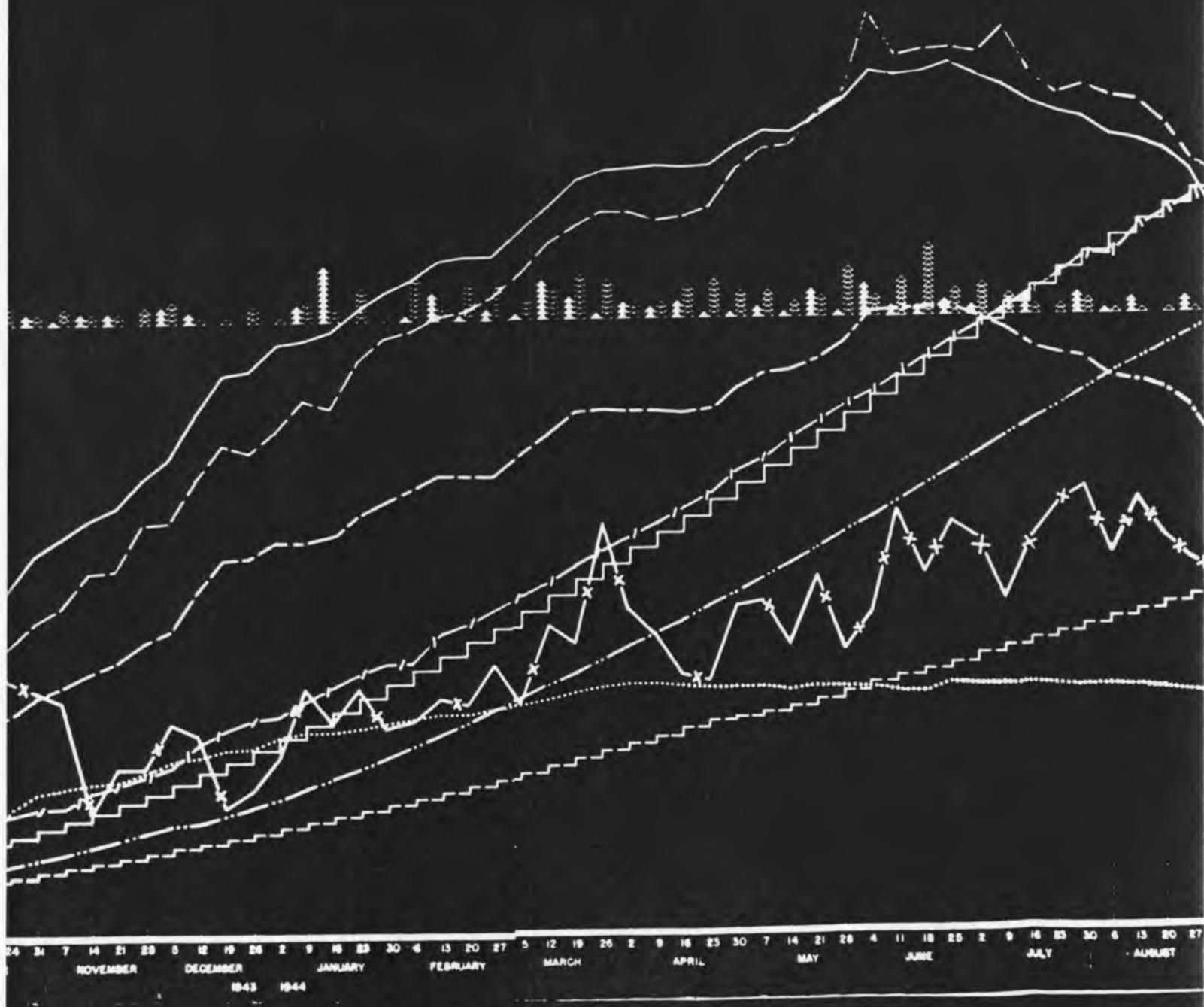
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85,000,000	41,667	510,000	17	170,000,000	340,000,000	
80,000,000	39,000	480,000	16	160,000,000	320,000,000	
75,000,000	375	450,000	15	150,000,000	300,000,000	
70,000,000	35,431	420,000	14	140,000,000	280,000,000	
65,000,000	32,500	390,000	13	130,000,000	260,000,000	
60,000,000	30,000	360,000	12	120,000,000	240,000,000	
55,000,000	27,500	330,000	11	110,000,000	220,000,000	
50,000,000	25,000	300,000	10	100,000,000	200,000,000	
45,000,000	22,500	270,000	9	90,000,000	180,000,000	
40,000,000	20,000	240,000	8	80,000,000	160,000,000	
35,000,000	17,500	210,000	7	70,000,000	140,000,000	
30,000,000	15,000	180,000	6	60,000,000	120,000,000	
25,000,000	12,500	150,000	5	50,000,000	100,000,000	
20,000,000	10,000	120,000	4	40,000,000	80,000,000	
15,000,000	7,500	90,000	3	30,000,000	60,000,000	
10,000,000	5,000	60,000	2	20,000,000	40,000,000	
5,000,000	2,500	30,000	1	10,000,000	20,000,000	
0	0	DAILY PAYROLL		ACUMULATIVE PAYROLL	GROSS SUM SPENT	
		DUPONT & PIPE & ELECTRIC SUBCONTRACTORS		DAILY PAYROLL - DUPONT + PIPE & ELECTRIC SUBCONTRACTORS	MINOR INJURIES PER 10,000 HOURS WORKED - WEEKLY (DUP + PIPE & ELEC)	
		DAILY PAYROLL - DUPONT		ACCUMULATIVE PAYROLL	MAJOR INJURIES WEEKLY (1 ▲ = 1 INJURY) - DUPONT ONLY	
		ACCUMULATIVE PAYROLL - DUPONT		ACCUMULATIVE PAYROLL - DUPONT	ACCUMULATIVE EXPOSURE HOURS - DUPONT	
		ACCUMULATIVE PAYROLL - SUBCONTR		ACCUMULATIVE PAYROLL - SUBCONTR	ACCUMULATIVE EXPOSURE HOURS - SUBCONTRACTORS INCL FIXED FEE	
		TOTAL DAILY PAYROLL				

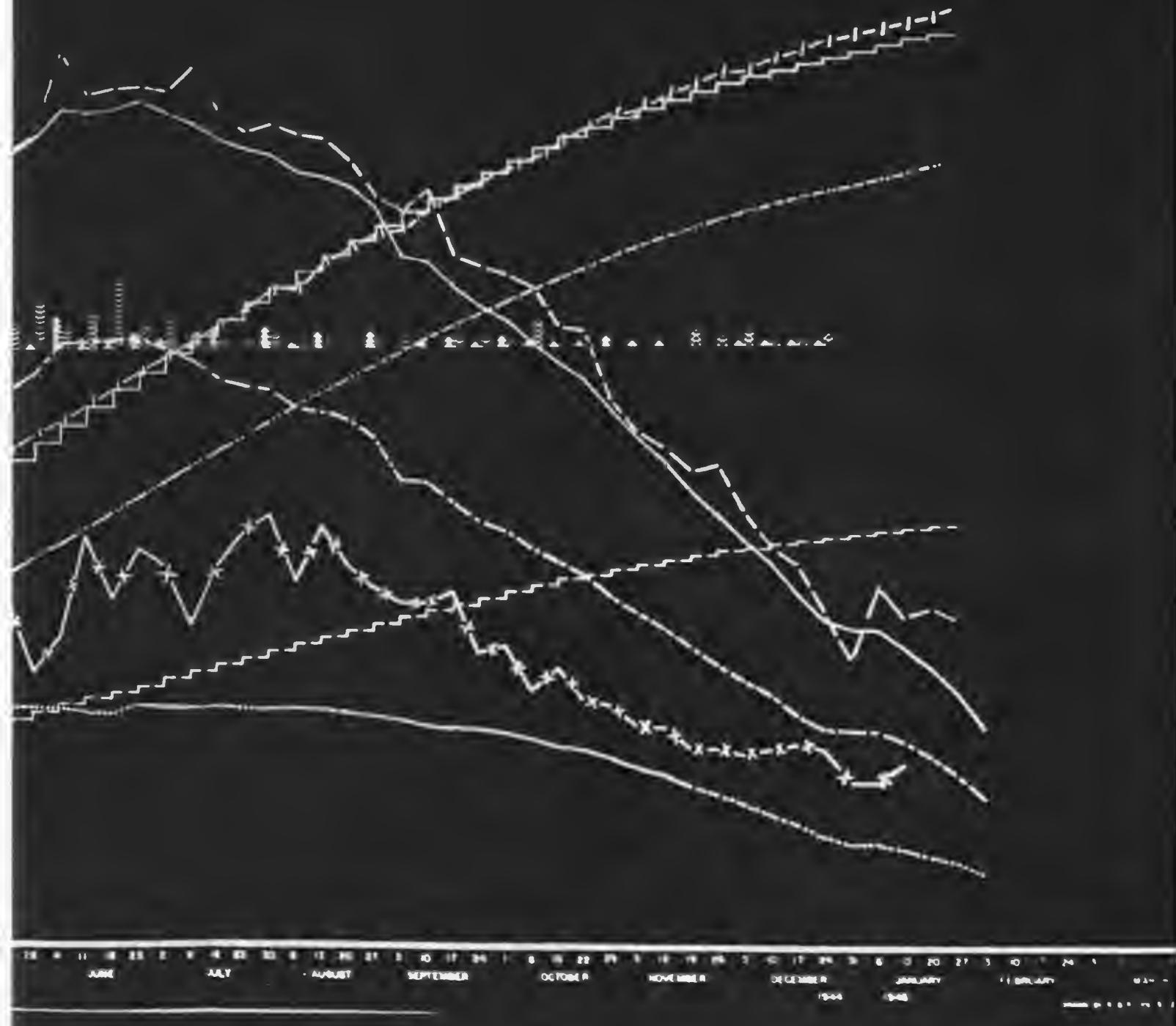
LEGEND

- DUPONT : DAILY FORCE WORKING
- SUBCONTRACTORS : DAILY FORCE WORKING
- TOTAL DAILY FORCE WORKING
- DAILY PAYROLL : DUPONT + PIPE & ELECTRIC SUBCONTRACTORS
- ACCUMULATIVE PAYROLL
- GROSS SUM SPENT
- MINOR INJURIES PER 10,000 HOURS WORKED - WEEKLY (DUP + PIPE & ELEC)
- MAJOR INJURIES WEEKLY (1 ▲ = 1 INJURY) - DUPONT ONLY
- ACCUMULATIVE EXPOSURE HOURS - DUPONT
- ACCUMULATIVE EXPOSURE HOURS - SUBCONTRACTORS INCL FIXED FEE



COMPOSITE CHART  
HANFORD ENGINEER WORKS  
PROJECT 9536





40,000

LEGEND

— WHITE MEN SLEEPING ON PLANT SITE

— BARRACKS ACCOMMODATIONS WITH ALL FACILITIES

36,000

32,000

28,000

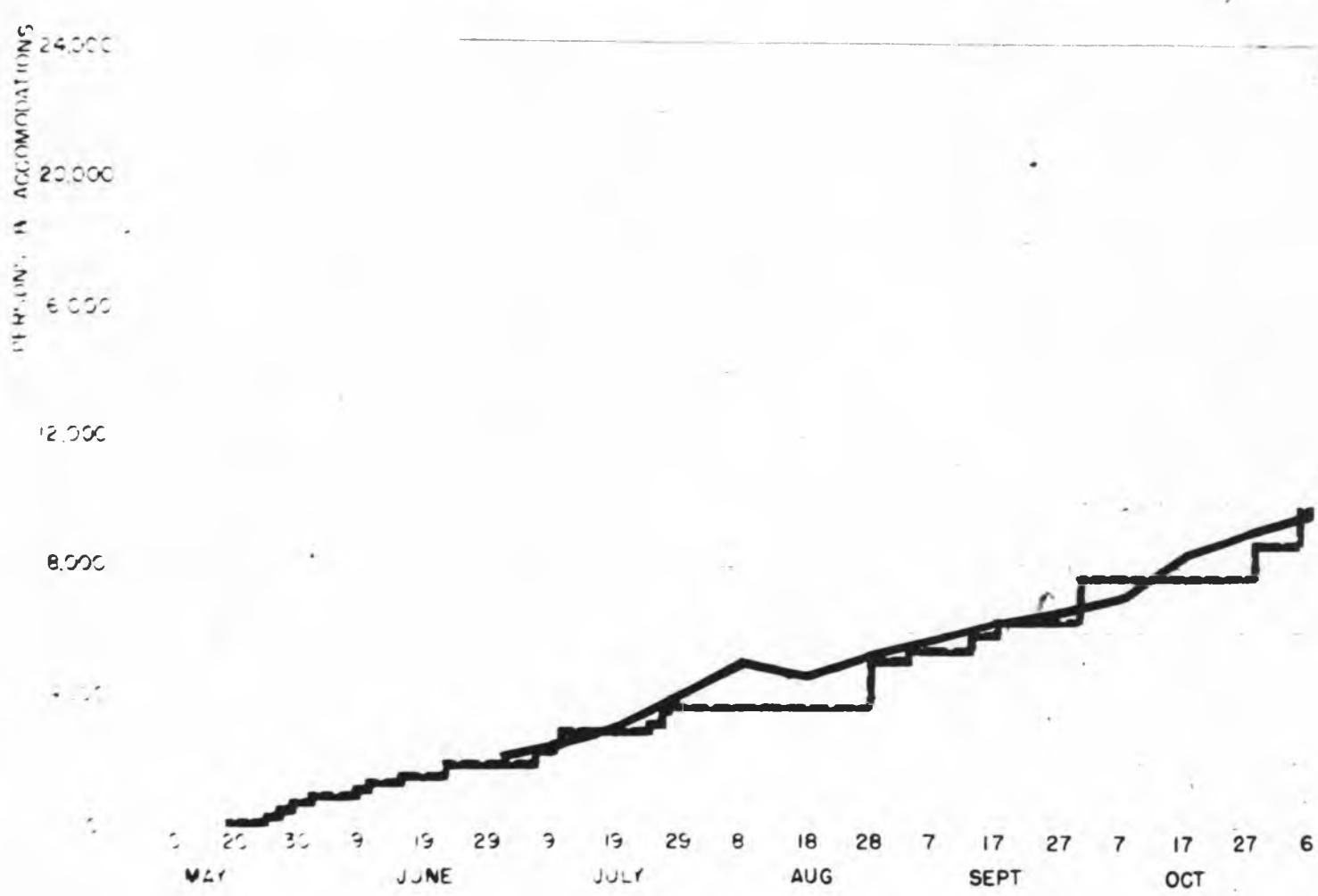
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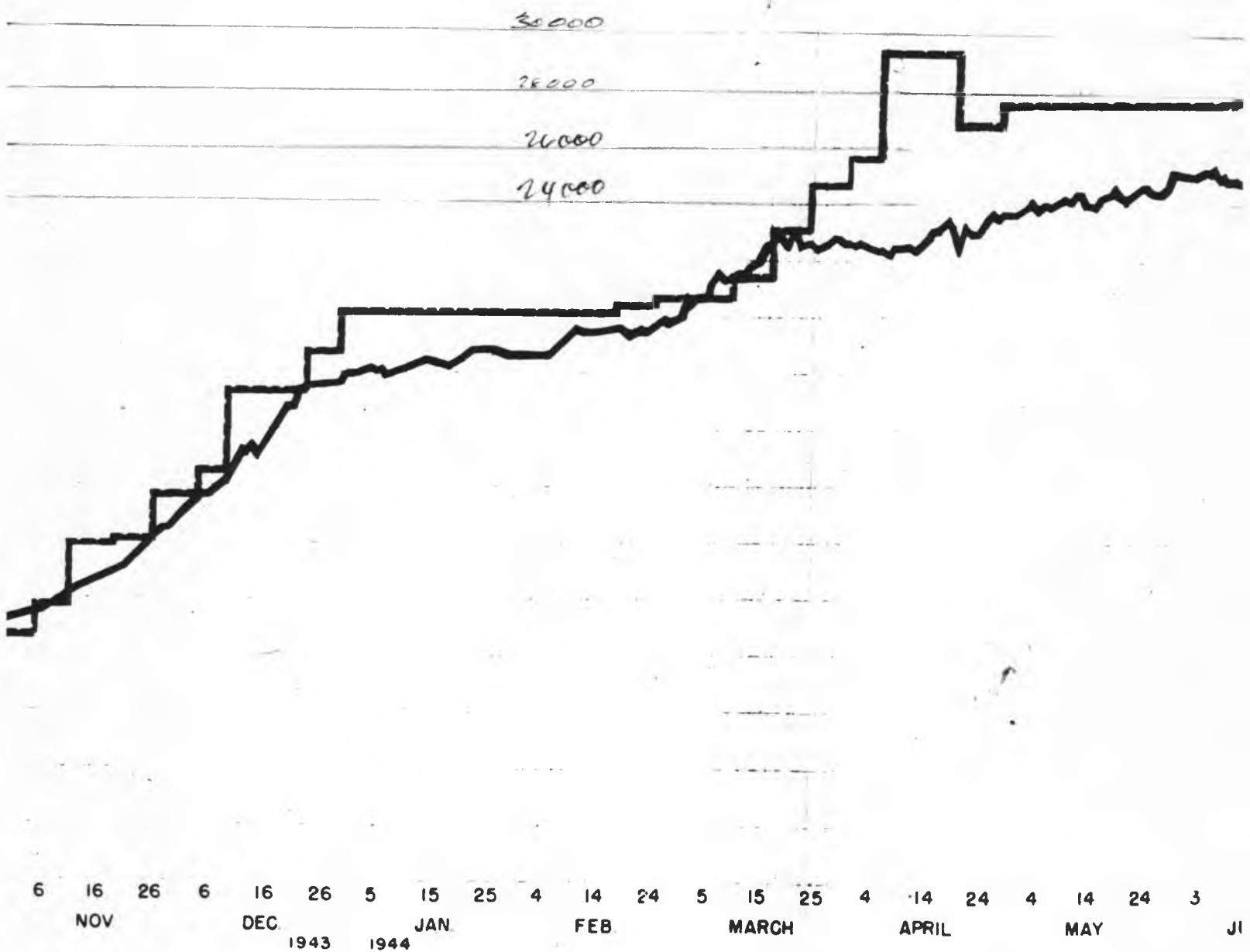
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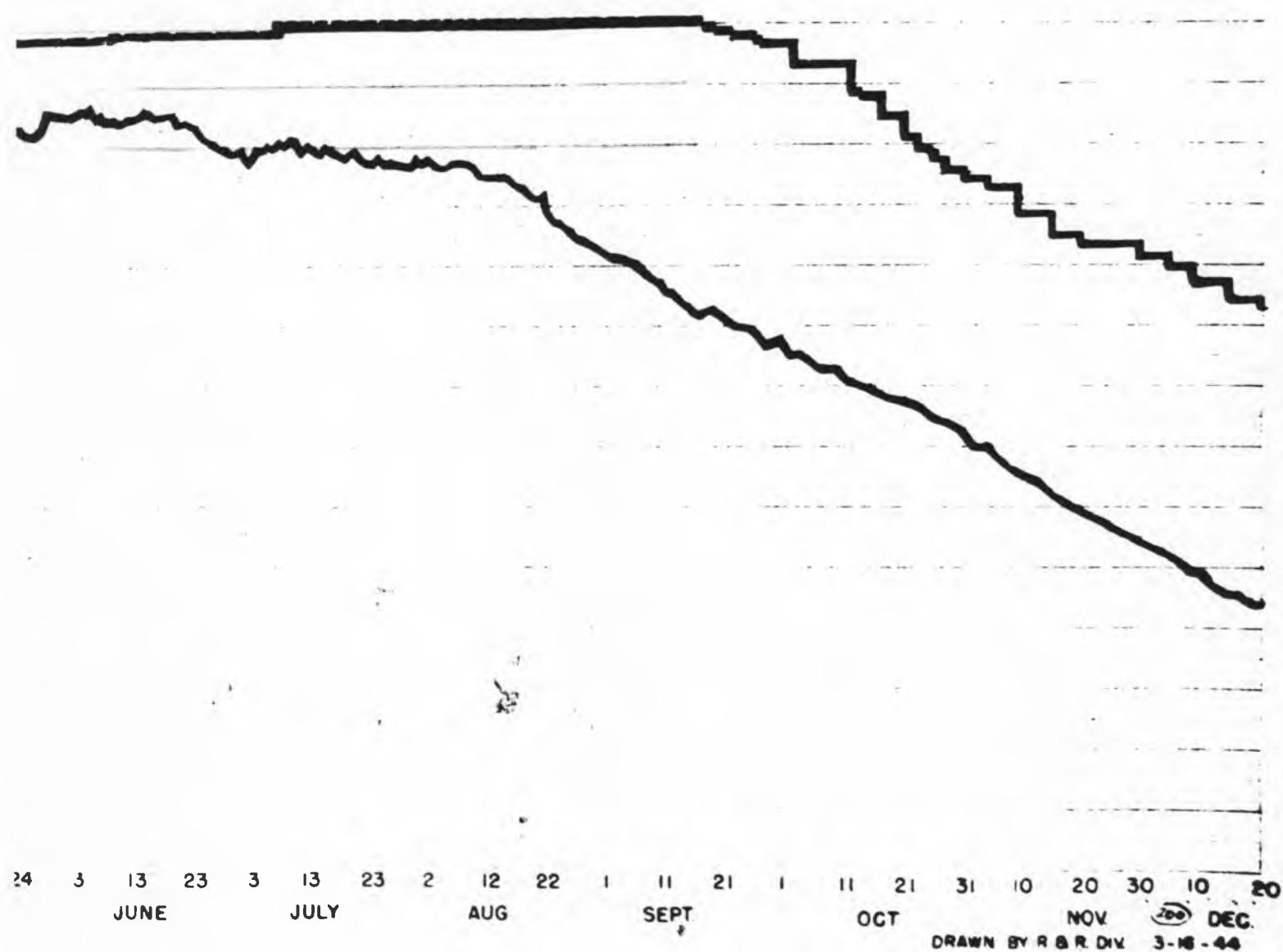
12,000

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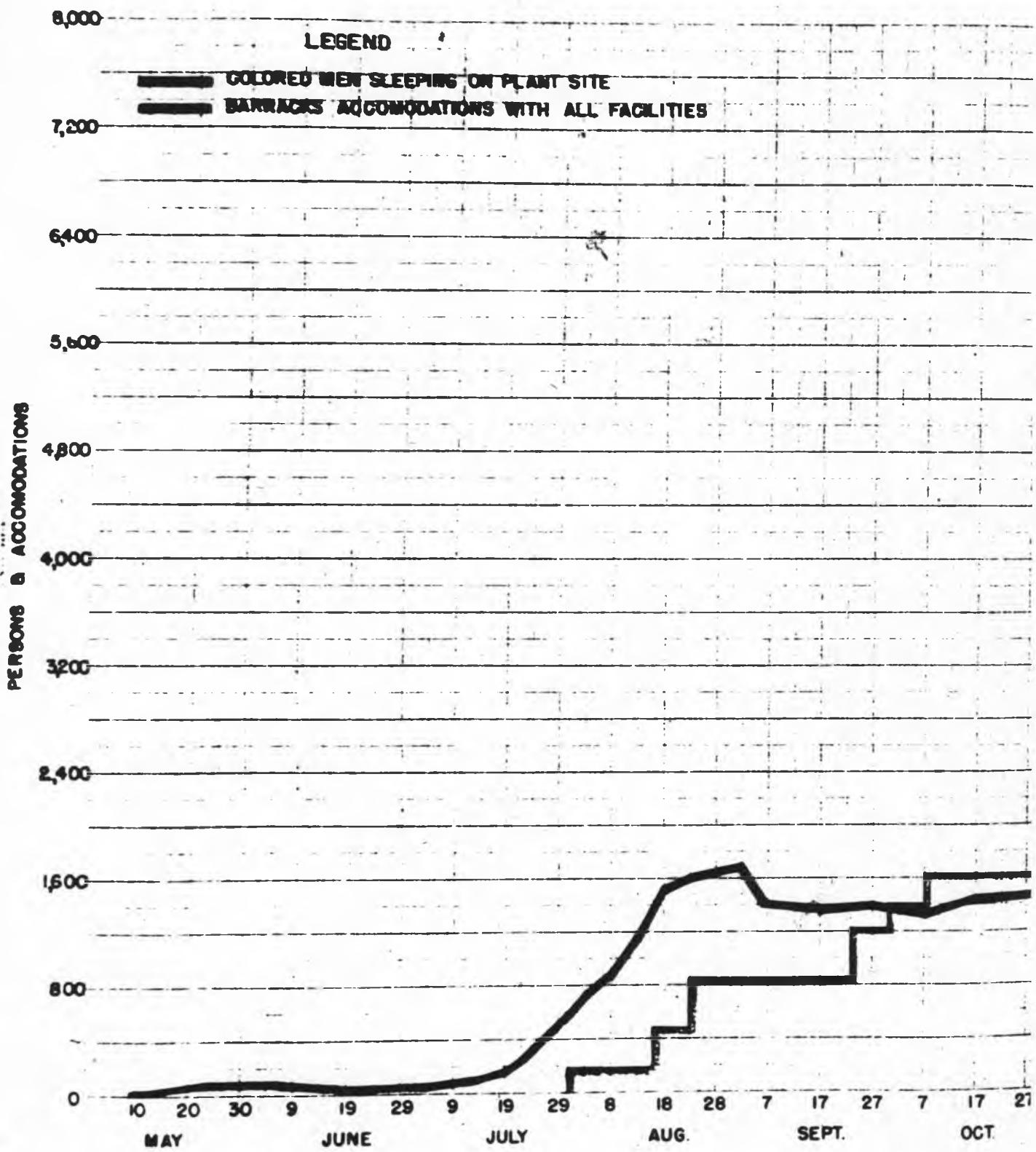


MALE EMPLOYEES - BARRACKS ACCOMMODATIONS  
H E W - 9536

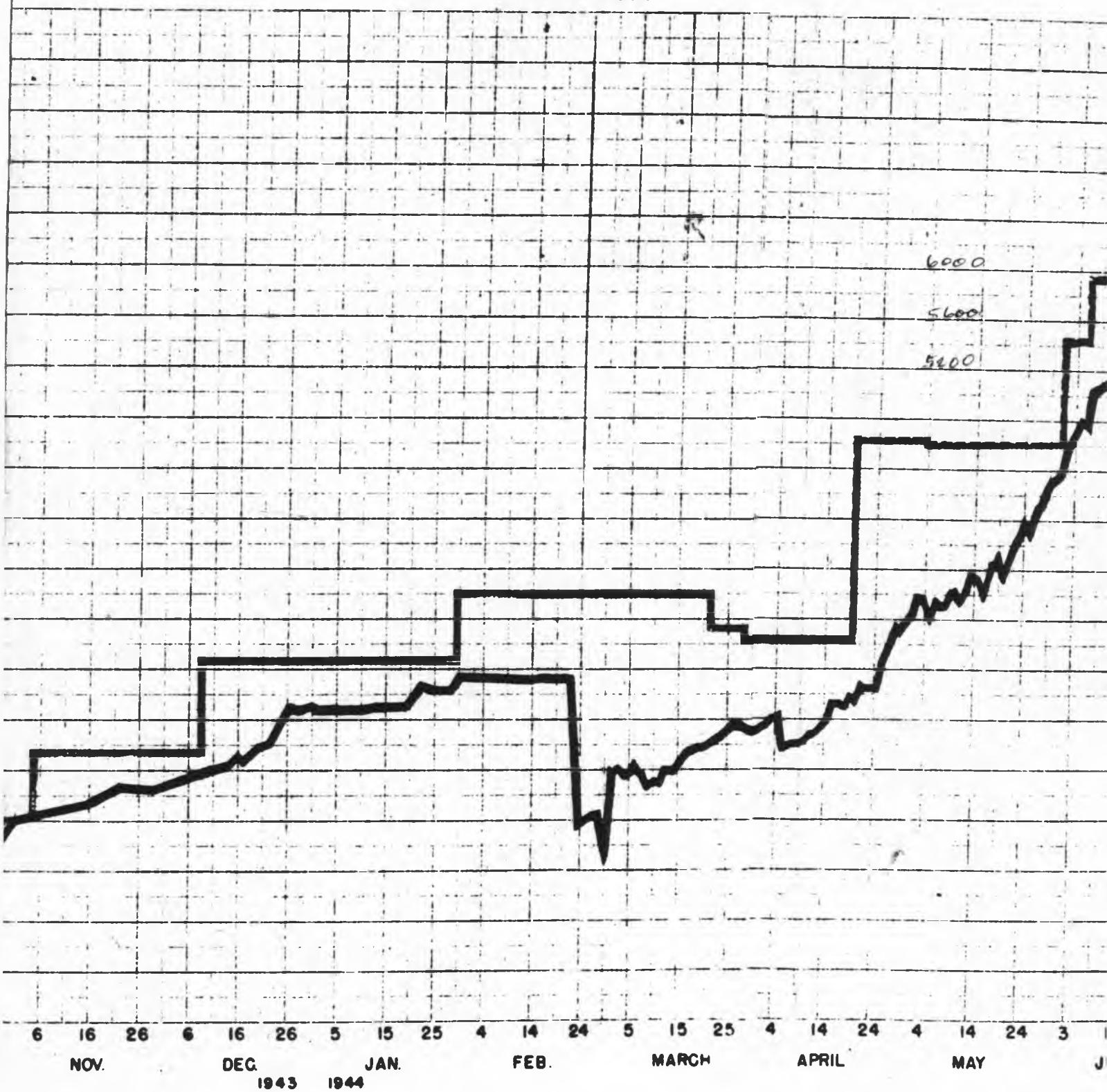


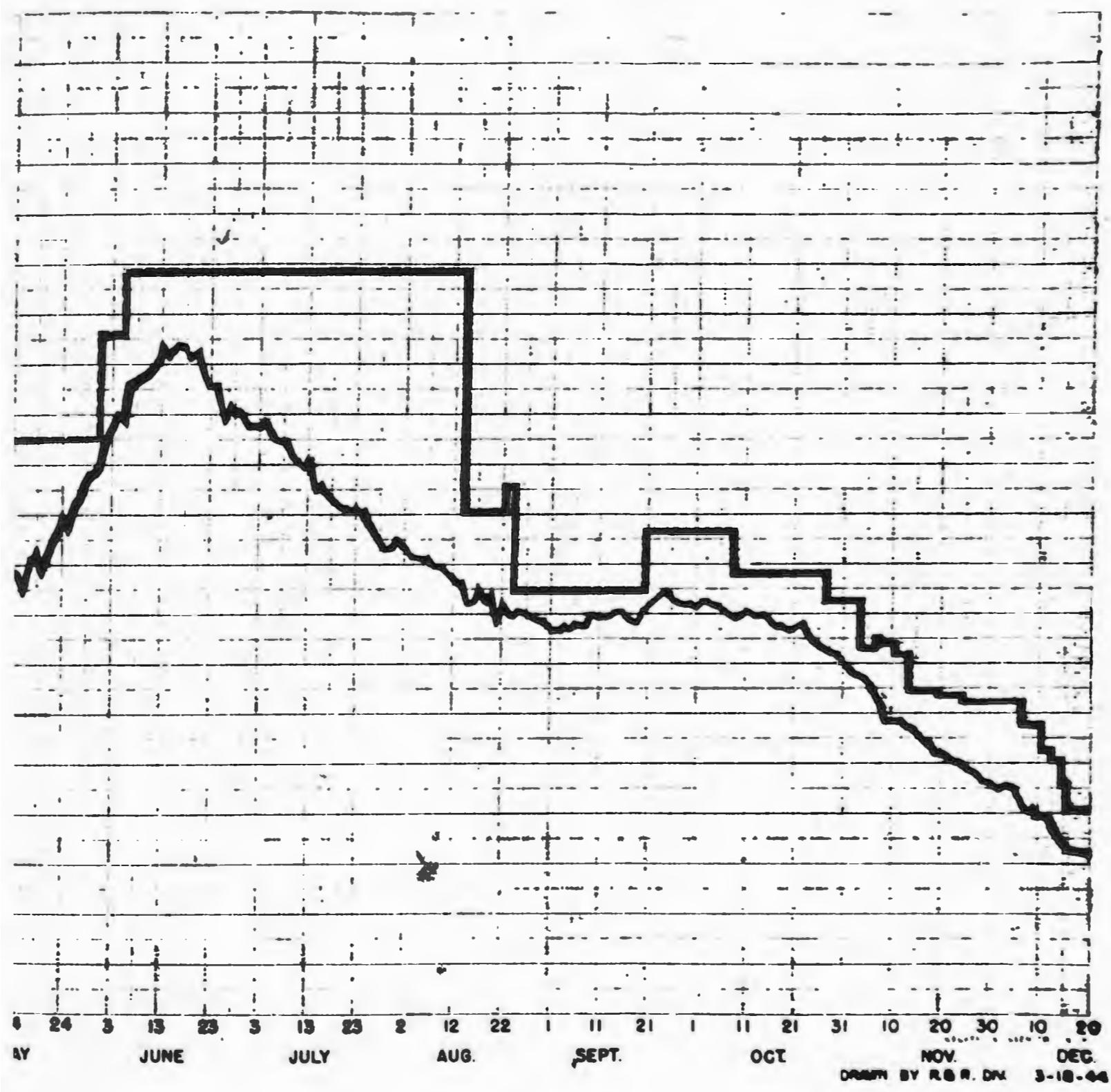


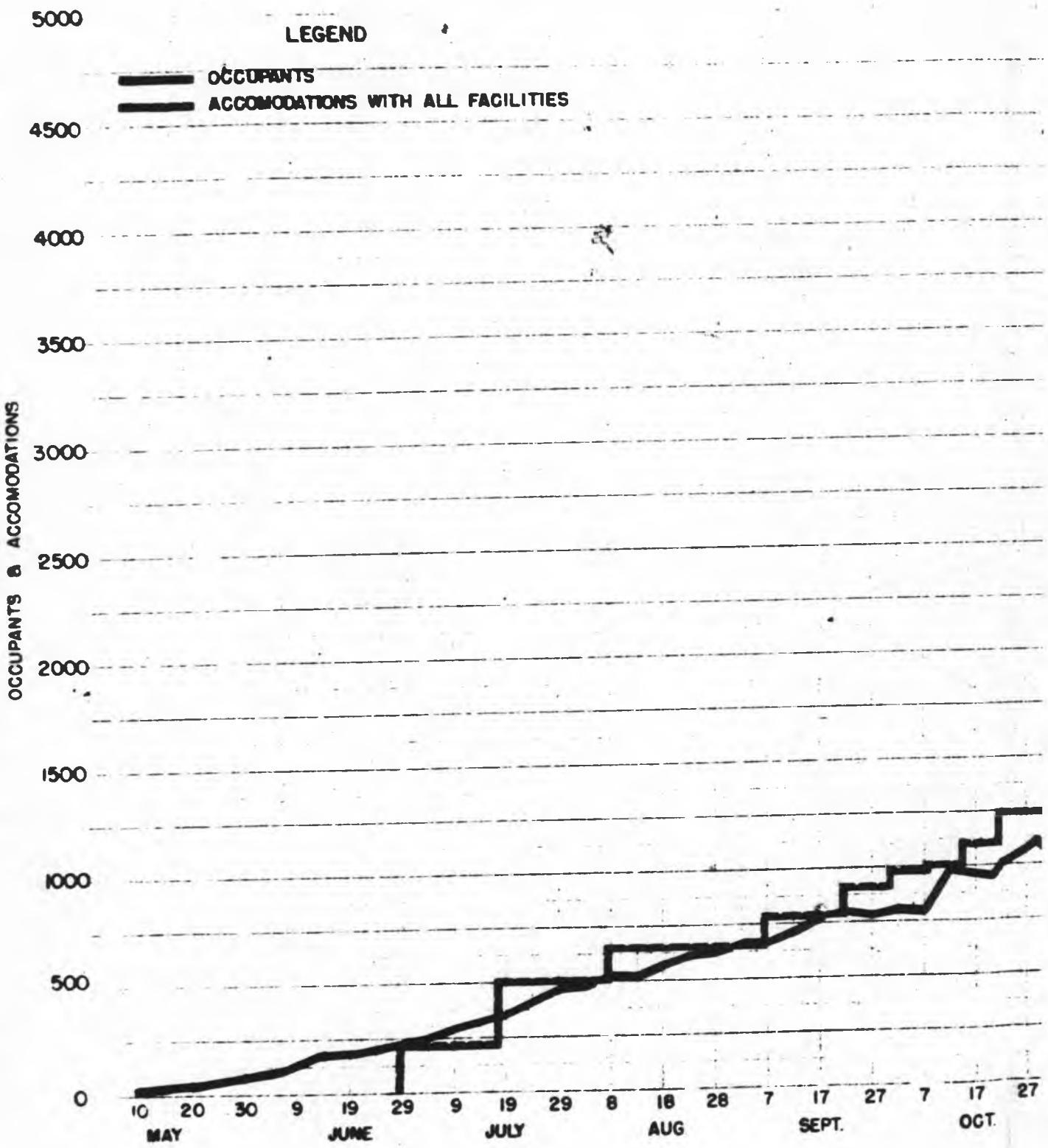
DRAWN BY R.G.R.D.V. 3-18-44



COLORED MALE EMPLOYEES - BARRACKS AND ACCOMODATIONS  
H.E.W. 9536

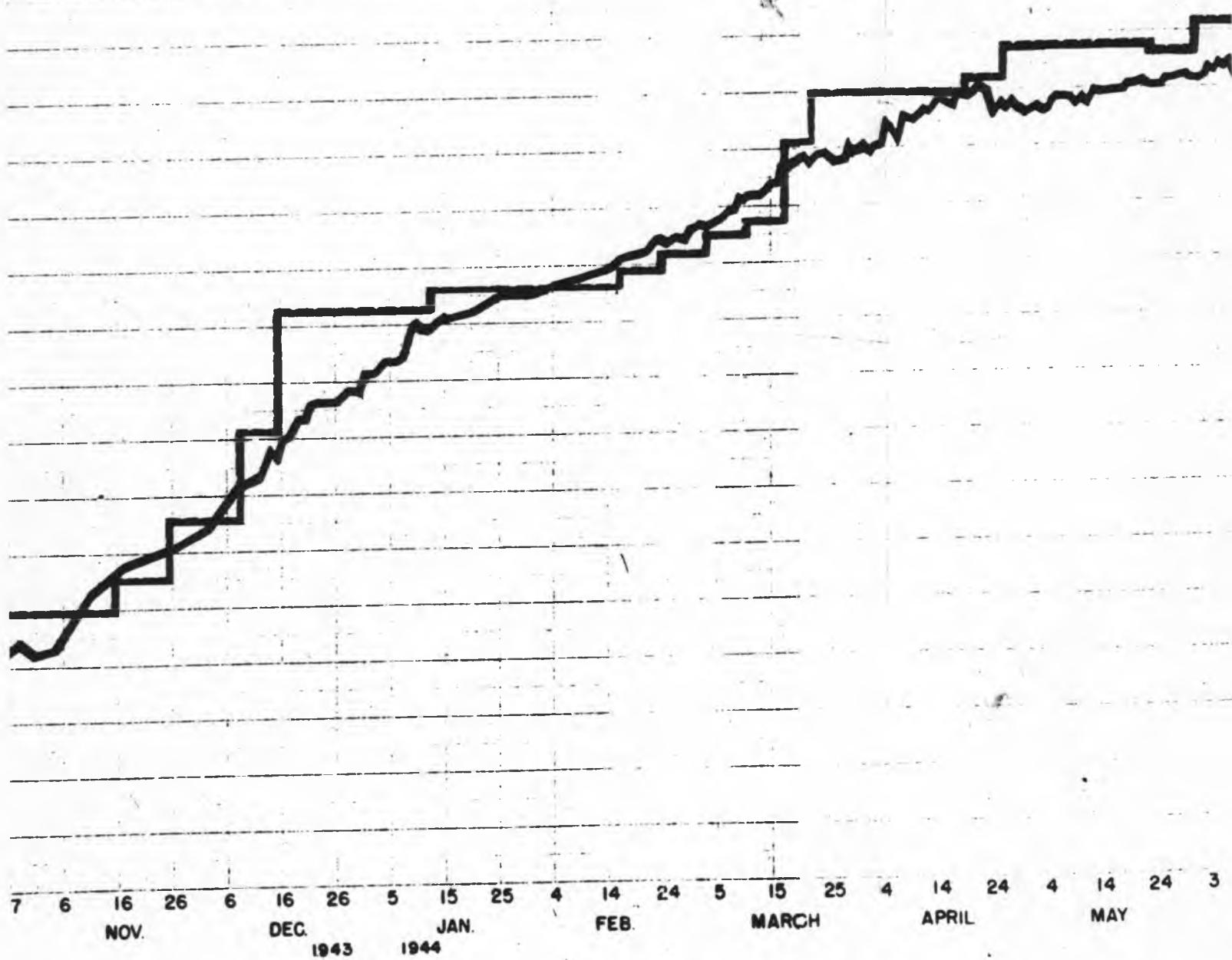


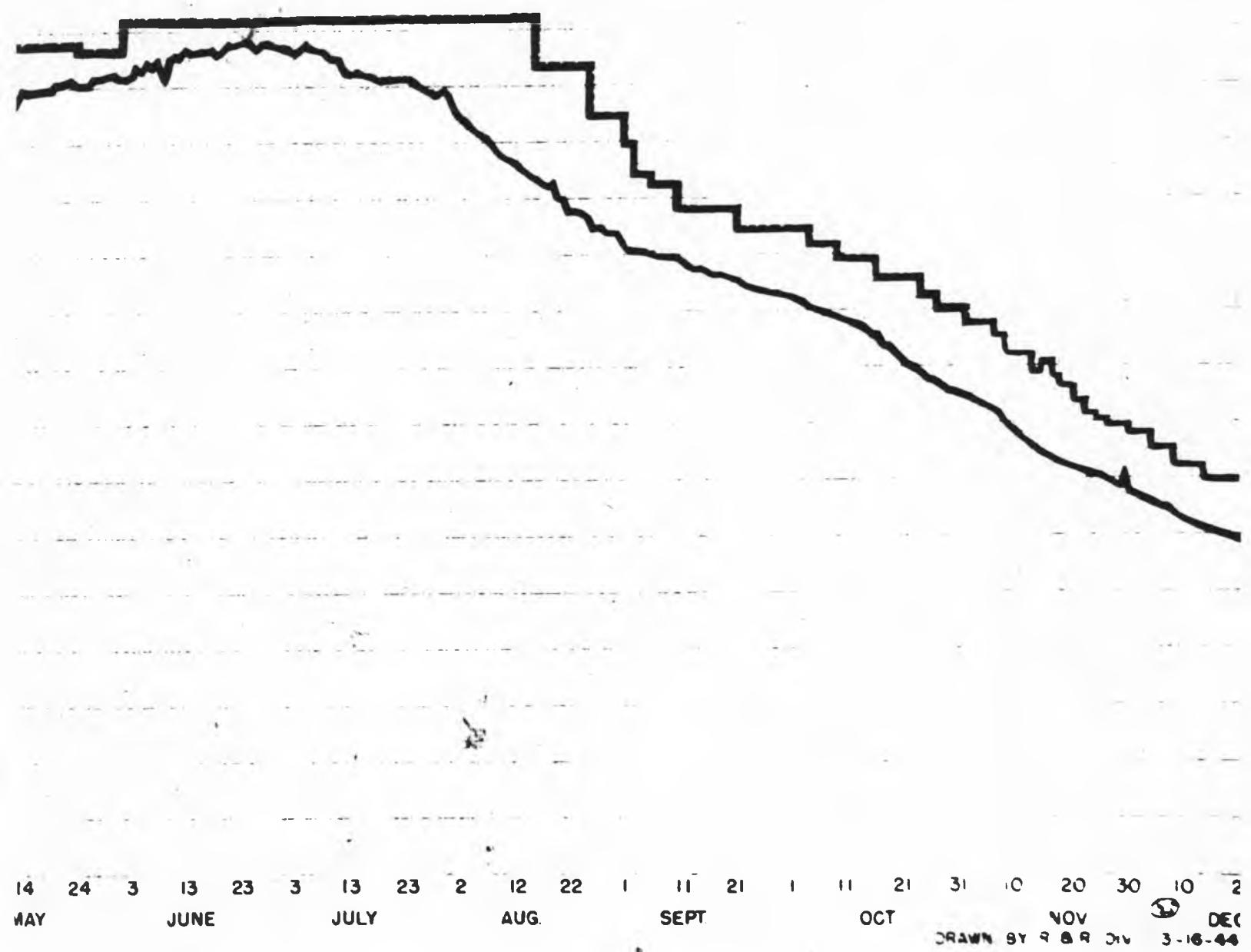


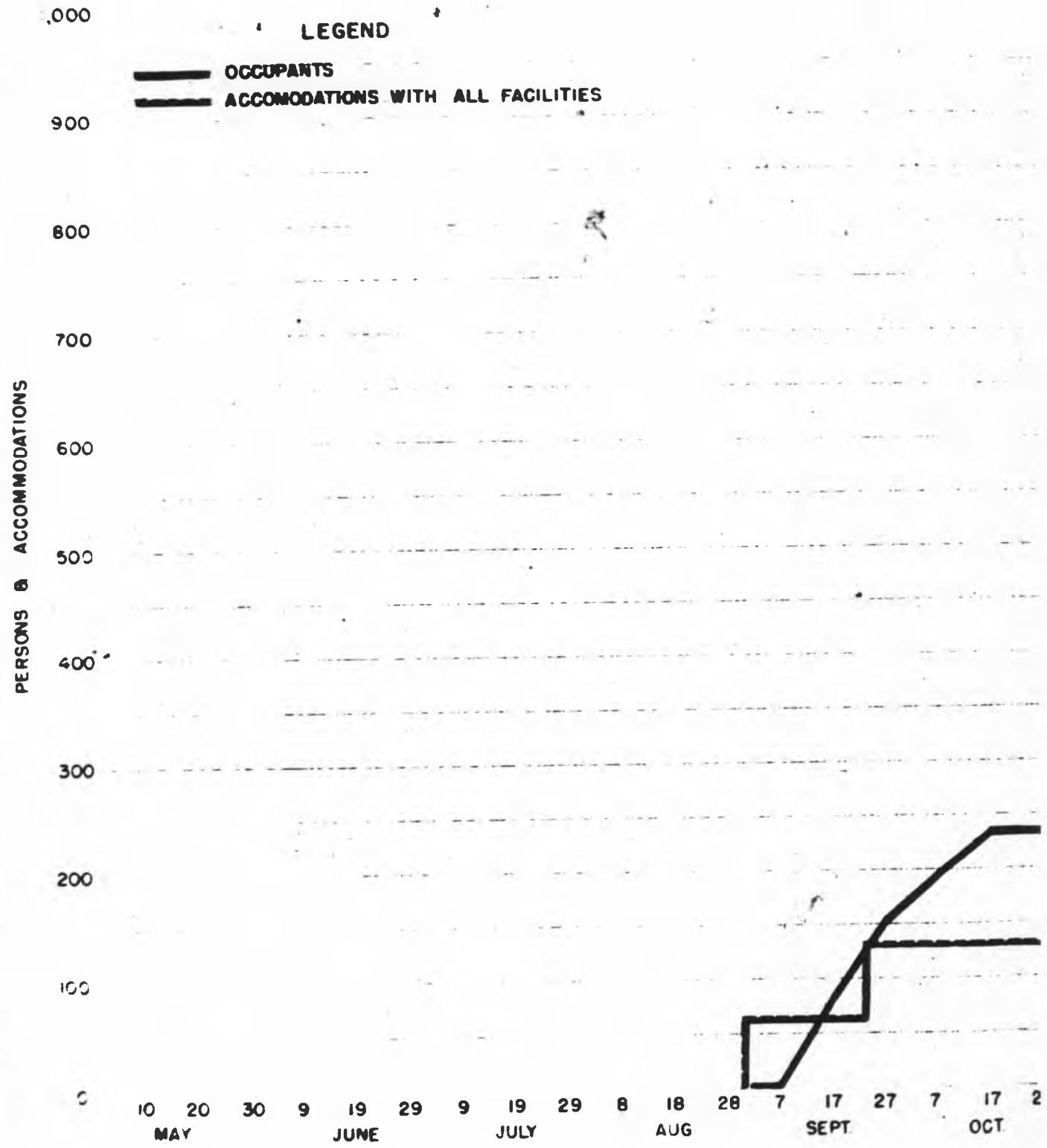


WOMEN'S BARRACKS - OCCUPANTS & ACCOMMODATIONS  
H.E.W. 9536

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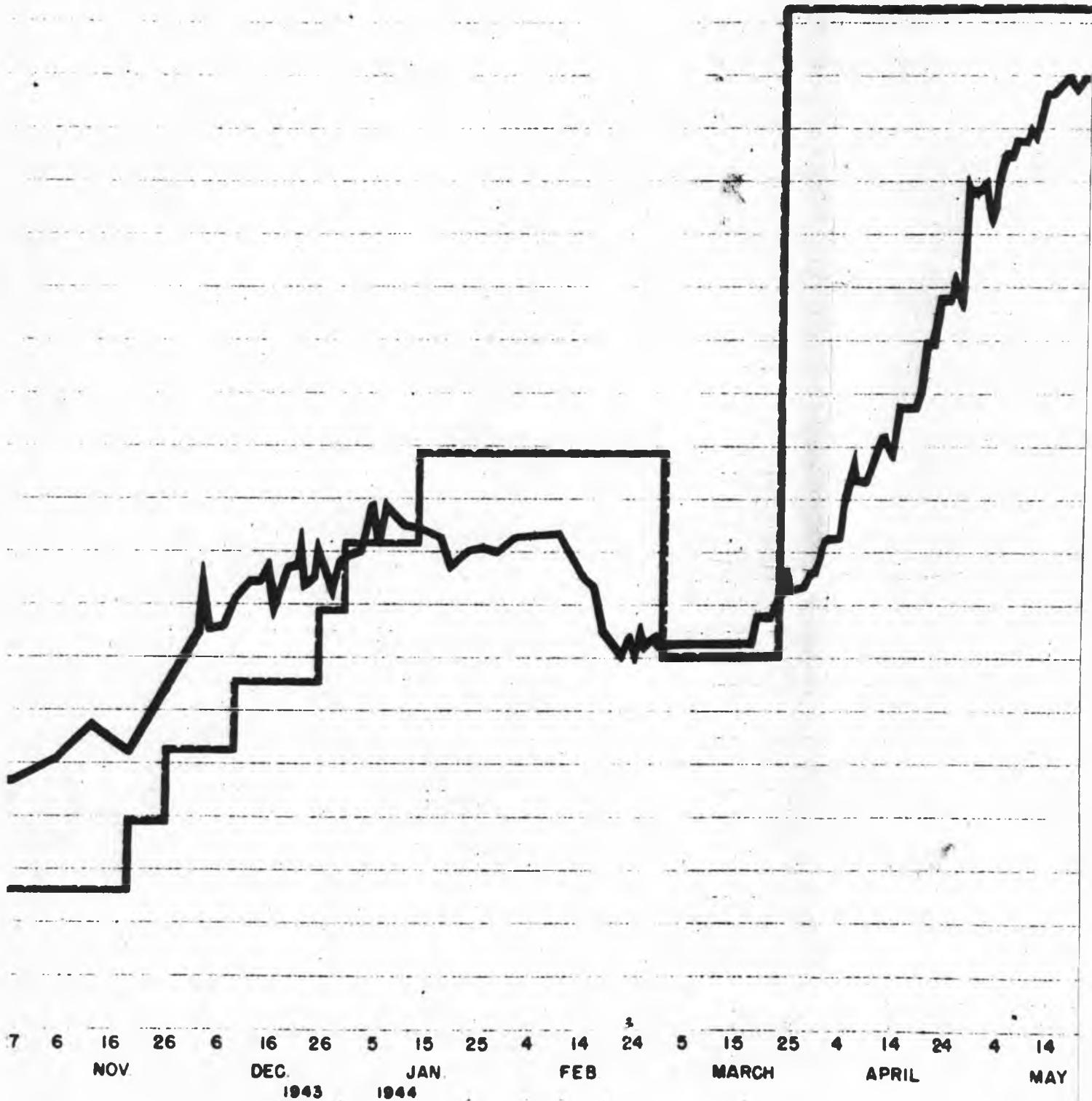




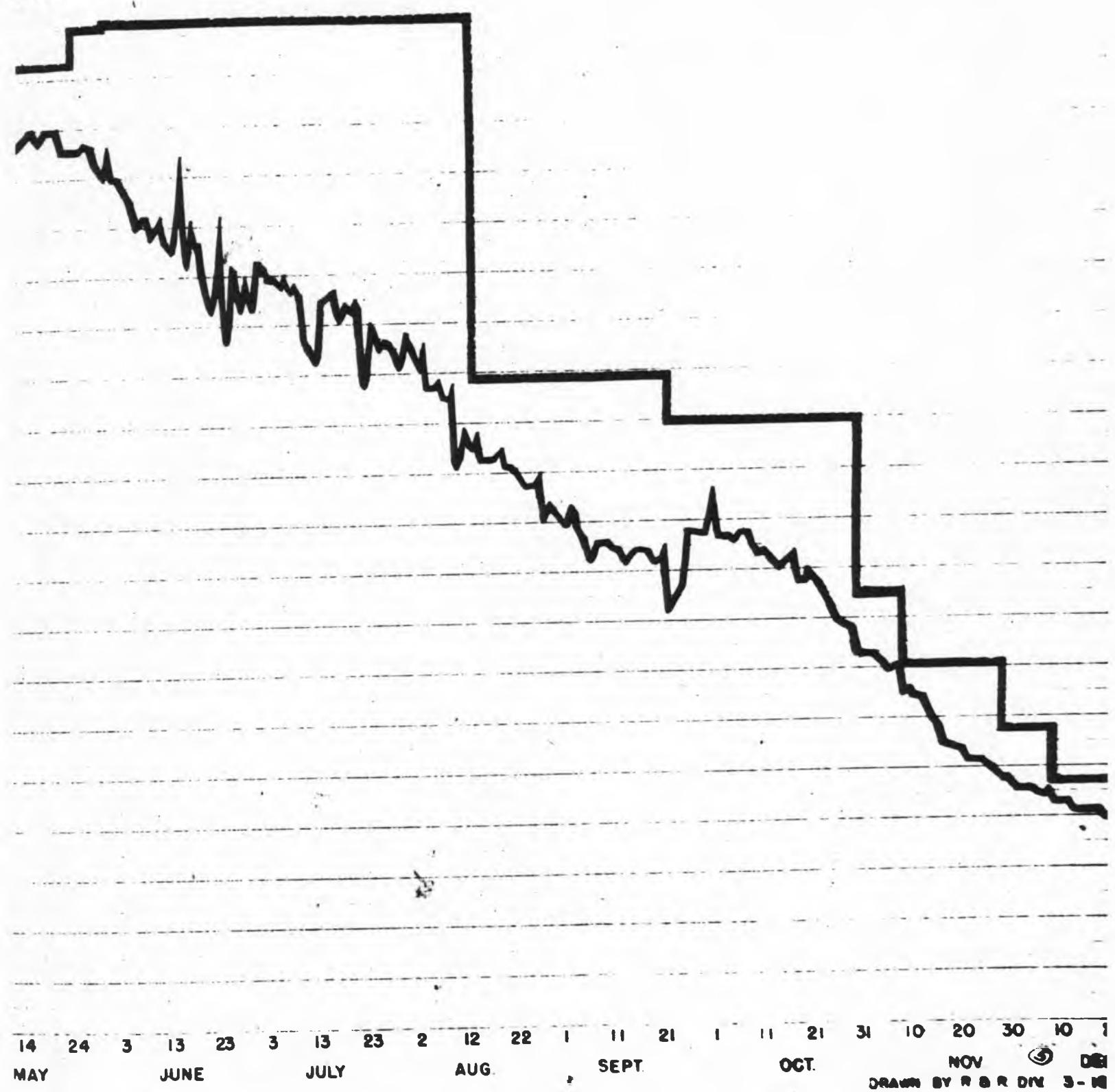


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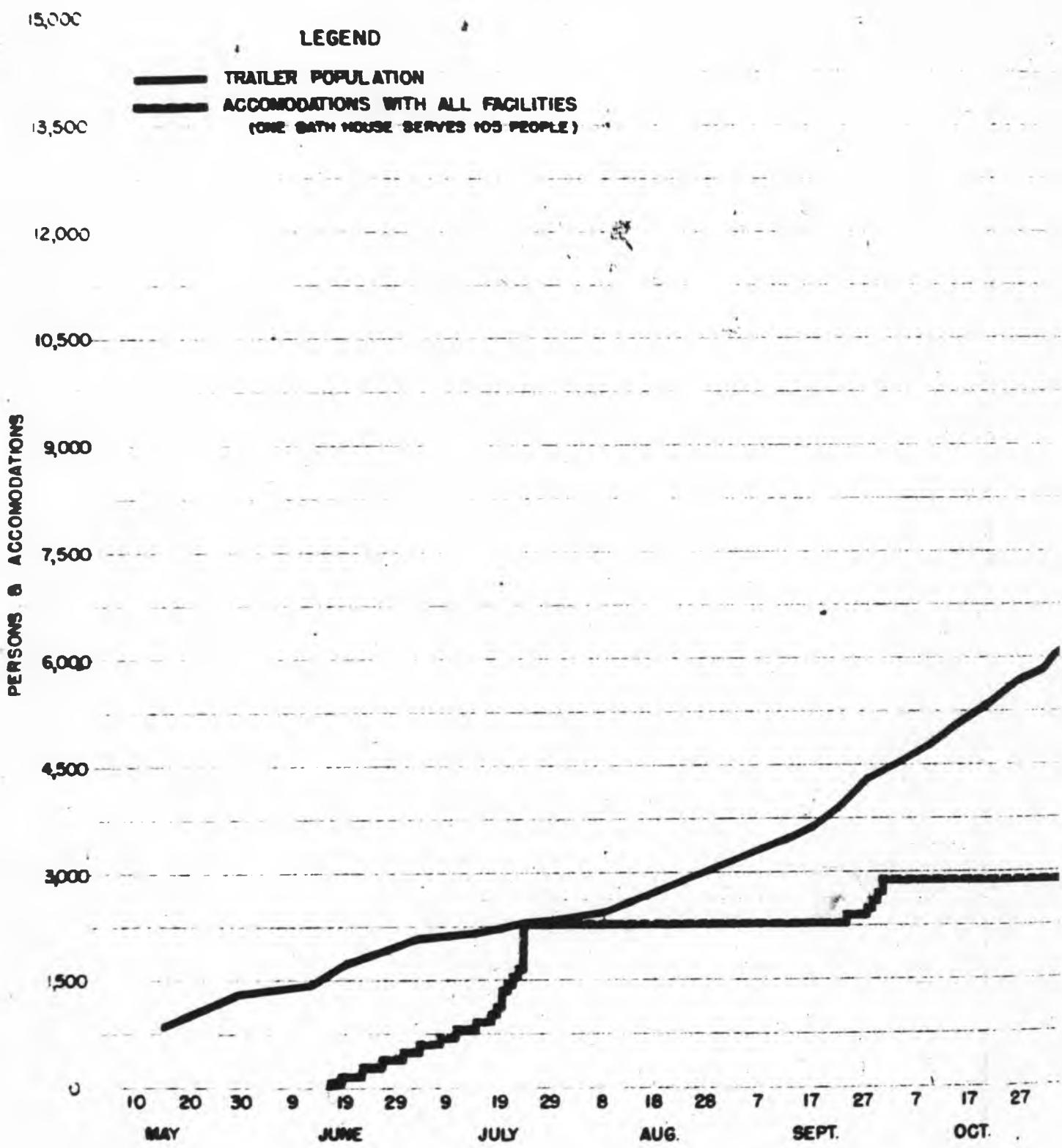
COLORED WOMENS BARRACKS - OCCUPANTS AND ACCOMMODATIONS  
H E W 9536



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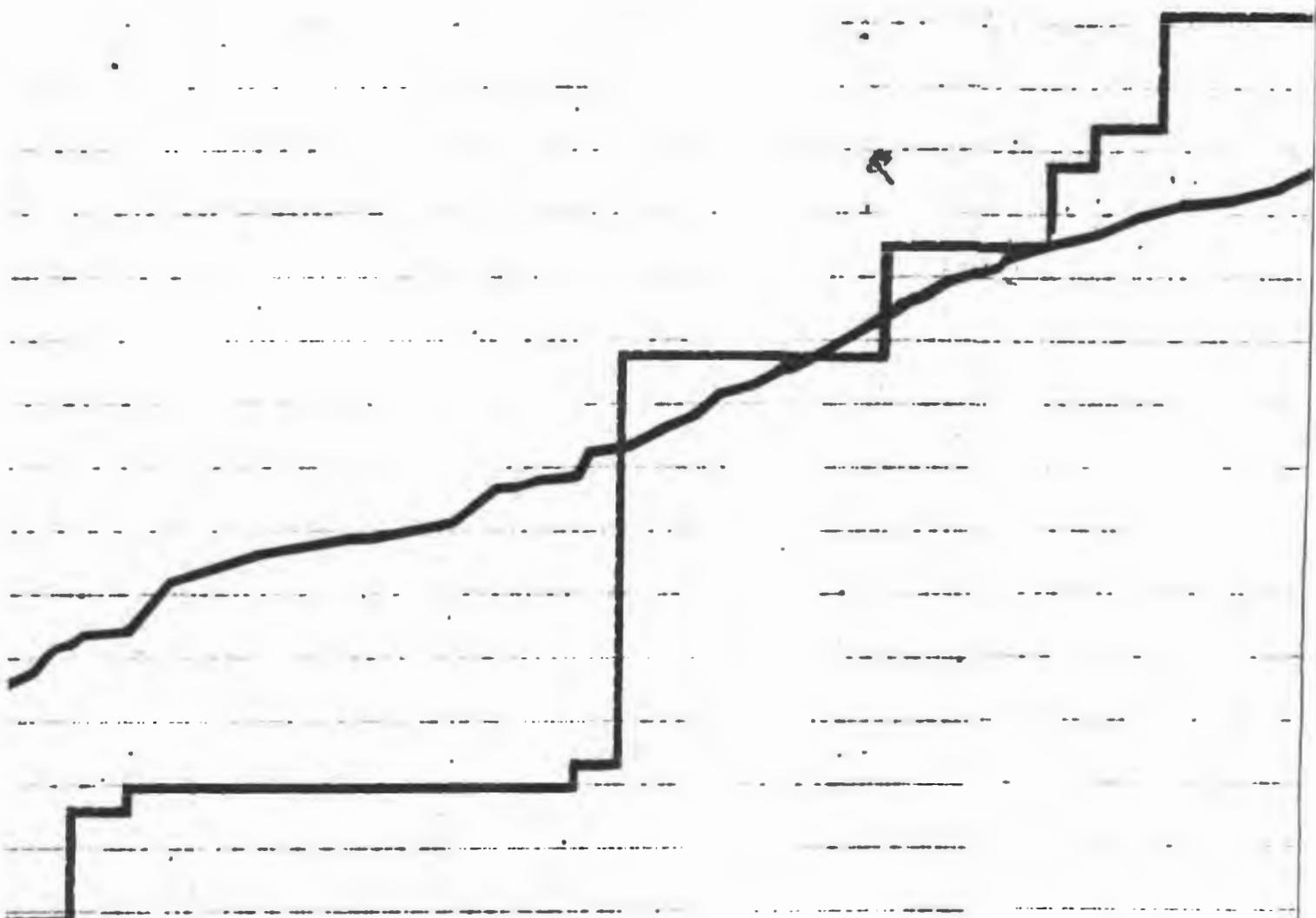


DRAWN BY R.B.R.DIV 3-18



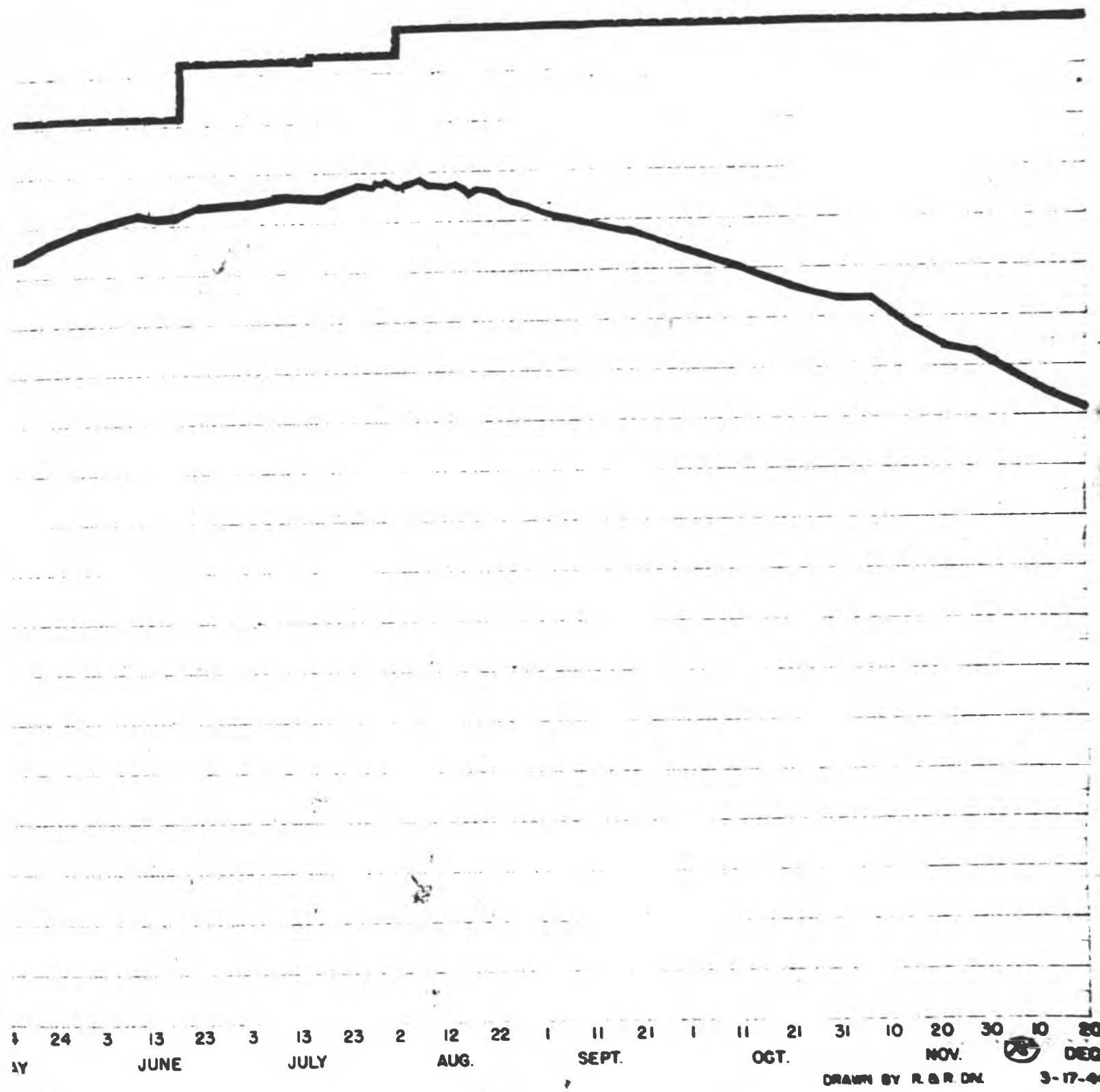
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TRAILER CITY - POPULATION & ACCOMMODATIONS  
HEW 9536



7 6 16 26 6 16 26 5 15 25 4 14 24 5 15 25 4 14 24 4 14  
NOV. DEG. JAN. FEB. MARCH APRIL MAY  
1943 1944

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DRAWN BY R. B. R. D. N.

3-17-41

A This appendix lists a total of 193 barracks. App. B-56  
refers to 195 barracks.

B 18 Barracks shown by App. B-15

~~SECRET~~

HANFORD CAMP CAPACITIES

WHITE MEN

BARRACKS (Total of 110 constructed)

20 - each accommodating 199 men or	3,980
90 - each accomodating 191 men or	<u>17,190</u>
	21,170
Less Wing C of Bks. 148 (used for baggage)	48
Less Wing C of Bks. 60	
(used by Training and Relations Dept.)	<u>50</u>
	98

Total useable barrack spaces - - 21,072

HUTMENTS (Total of 380 80' units erected)

307 - each accommodating 20 men	6,140
or accomodating 22 men	6,754
12 - each accommodating 20 men	240
or accomodating 22 men (Temp.)	264
8½ - each accommodating 12 men	102
(Service)	102
2½ huts used for offices*	0

Total usable hutment spaces - - 7,120

Total ultimate capacity - - - - 28,192

COLORED MEN

BARRACKS

21 - each accommodating 191 men or	<u>4,011</u>
	4,011
Less 1 barrack used as Community Building	
for colored employees	191
Less 3 barracks used for colored women	<u>573</u>
	764

Total useable barracks spaces - - 3,247

HUTMENTS

240 - each accommodating 10 men	2,400
or accomodating 11 men	2,640
4 - each accomodating 10 men	40
or accomodating 11 men (Temp.)	44
5 - each accomodating 6 men (Ser.)	30
2 huts (Olympic Commissary Offices)	0

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HANFORD CAMP CAPACITIES (Continued)

COLORED MEN

HUTMENTS (Continued)

1 hut (Training & Relations Dept.) 0 0

Total usable hutment spaces - - 2,714

Total ultimate capacity - - - - 5,961

WHITE WOMEN

BARRACKS (Total of 64 constructed)

64 - each accommodating 70 women or	4,480	4,480
Less 7 used for colored women	490	
Less Barracks #11 (used as Recreation Hall)	70	
Less Wing-B of Barracks #12 (used by Women's Army Corps)	38	
		<u>598</u>

Total usable barracks spaces - - 3,888

Total ultimate capacity - - - - 3,888

COLORED WOMEN

BARRACKS

7 - each accommodating 70 women or	490	
3 - each accommodating 180 women**or	<u>540</u>	1,030
Less part of 1 barracks used as office space	18	<u>18</u>

Total usable barrack spaces - - 1,012

Total ultimate capacity - - - - 1,012

GRAND TOTAL CAMP CAPACITY 39,050

Legend:

\* 1 Hanford Housing Office ( $\frac{1}{2}$  hut); 2 Olympic Commissary Co. Bedroll Offices (2 half-huts); 2 Linen Rooms (2 half-huts)

**SECRET**

HANFORD CAMP CAPACITIES (Continued)

Legend: (Continued)

\*\* Three 4-wing type men's barracks were used to house colored women.

NOTE: The above capacity figures include the following temporary spaces which were not available for permanent assignment:

White Men	264
Colored Men	44
White Women	38
Colored Women	17

**SECRET**

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Tabulation of Barracks Construction Dates

White Men's Barracks

<u>Barracks Unit No.</u>	<u>No. of Units</u>	<u>Started</u>	<u>Completed</u>
Group 51 - 60	10	April 6, 1943	November 27, 1943
Group 61 - 70	10	May 14, 1943	November 18, 1943
Group 71 - 80	10	June 29, 1943	October 16, 1943
Group 81 - 90	10	September 30, 1943	November 27, 1943
Group 91 - 100	10	August 8, 1943	October 28, 1943
Group 101 - 108)	8	September 24, 1943	November 27, 1943
Group 111 - 120	10	September 3, 1943	November 18, 1943
Group 131 - 138	10	November 11, 1943	December 16, 1943
Group 131 - 140	10	October 18, 1943	November 27, 1943
Group 141 - 150	10	November 28, 1943	December 24, 1943
Group 151 - 160	10	November 1, 1943	December 11, 1943
Group 161 - 164	4	November 28, 1943	February 19, 1944
	<u>110</u>		

Colored Men's Barracks

Group 201 - 206	5	June 17, 1943	October 30, 1943
Group 208 - 210	8	August 9, 1943	November 27, 1943
Group 211 - 215*	4	September 3, 1943	December 8, 1943
Group 218 - 224	9	September 22, 1943	December 30, 1943
	<u>21</u>		

\* No Barracks Number 218

White Women's Barracks

Group 1 - 10	10	June 20, 1943	September 28, 1943
Group 11 - 20	10	July 28, 1943	October 19, 1943
Group 31 - 30	10	October 27, 1943	November 27, 1943
Group 31 - 40	10	November 1, 1943	December 7, 1943
Group 41 - 50	10	January 27, 1944	March 8, 1944
Group 2 - Y	2	February 4, 1944	April 22, 1944
Group V,W,X	3	March 24, 1944	April 22, 1944
Group Q - R	2	(April 20, 1944)	March 27, 1944
	<u>57</u>		

Colored Women's Barracks

Group 251 - 252	2	August 18, 1943	October 13, 1943
Group 253 - 258	3	November 8, 1943	December 8, 1943
Group 256 - 267	2	November 11, 1943	January 1, 1944
	<u>7</u>		

~~SECRET~~  
Tabulation of Trailer Lot Construction Dates

<u>Camp Number</u>	<u>Capacity</u>	<u>Started</u>	<u>Completed</u>
Trailer Camp No. 1	480	May 20, 1943	July 24, 1943
Trailer Camp No. 2	709	July 19, 1943	November 16, 1943
Trailer Camp No. 3	789	October 19, 1943	January 1, 1944
Trailer Camp No. 4	780	November 4, 1943	January 29, 1944
Trailer Camp No. 5	560	February 15, 1944	April 22, 1944
Trailer Camp No. 6	265	March 10, 1944	August 2, 1944
Trailer Camp No. 7*	78	February 15, 1944	June 1, 1944
Total - -	<u>3,639</u>		

\* Colored Trailer Camp

## HANFORD CAMP SERVICES & FACILITIES

Listed below are the various "HC-Commercial Facilities" constructed to serve the Hanford Camp.

<u>Code Number</u>	<u>Name</u>	<u>Number of Buildings</u>		
		<u>New</u>	<u>Existing</u>	<u>Total</u>
HC-1	Bunkhouse Buildings	831	--	831
HC-2	Trailer Camp Buildings	146	2	148
HC-3	Mess Hall Buildings	19	--	19
HC-4	Commercial Store Buildings	14	4	18
HC-5	Theater Buildings	2	--	2
HC-6	Commissary Buildings	4	1	5
HC-7	Garages & Service Stations	1	1	2
HC-8	Combined Store Buildings	2	--	2
HC-9	Laundry	2	1	3
HC-10	Bank	1	--	1
HC-11	Post Office	1	--	1
HC-12	Bowling Alley	1	--	1
HC-13	Churches & Community Bldgs.	2	1	3
HC-14	Auditorium - Gymnasium	2	--	2
HC-15	Commercial Bus Depot	1	--	1
<b>Totals</b>		<b>1,029</b>	<b>10</b>	<b>1,039</b>

Below is a tabulation giving overall length of services, regardless of size or classification, and the number of new and used buildings required in Hanford for each:

<u>Code Number</u>	<u>Services</u>	<u>Length</u>	<u>Building</u>	
			<u>New</u>	<u>Existing</u>
TC-5	Roads	368,300'	-	-
TC-5	Walks	254,400'	-	-
TC-4.5	Water Lines	317,675'	26	1
TC-4.6	Electric Lines	321,500'	-	-
TC-4.8	Sewers & Septic Tanks	214,250'	9	-
TC-9	Fences	112,310'	-	-
TC-4.13	Public Address System		33 Installations	
TC-15	Steam Lines and Boiler Houses	169,180	18	-
TC-16	Telephone Lines	152,500'	-	-
<b>Totals</b>		<b>53</b>	<b>1</b>	

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Code Number	Building Facilities	Building		Total
		New	Existing	
TC-4.9	Miscellaneous Temporary Construction (Offices, Shops, etc.)	53	12	65
TC-4.10	Fire Stations	5	-	5
TC-4.11	School Buildings	6	2	8
TC-4.12	Locomotive and Boiler Repair Shop	1	-	1
TC-12	Employee's Recreational Facilities	1	1	2
	Totals	68	15	83

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**HANFORD ENGINEER WORKS**  
 PROJECT 9536  
**HC - HANFORD COMMERCIAL CONTRACTS**

NAME	TYPE	LOCATION	INCEPT. DATE	TERMS	CANC. DATE
Anderson Cold Storage	Frozen Food Locker & Coffee Shop	Tract Bldg. - R-1828 (White Bluffs)	1-4-44	\$60.00 per month flat rental	
Associated Cleaning & Pressing	Cleaning & Pressing establishment	Tract Bldg. B-141 (cone room)	4-3-44	12% gross sales	6-30-44
Associated Laundry	Laundering Service	Tract Bldg. B-141 (cone room)	3-27-44	2% gross sales	2-10-45
Barton Trailer Supplies	Selling Trailer Equipment	Bldg. owned by operator	4-17-44	5% gross sales	2-10-45
Bevin Corp Company	Shop Repair Shop	Tract Bldg. B-84	10-4-43	\$25.00 per month flat rental	2-10-45
Berto Garbage Collection	Collecting Garbage	Collecting from Mess Hall #1	5-4-44	\$25.00 per month flat rental	8-31-44
Brown Barber Shop	Barbering Service	Tract Bldg. B-1820 (White Bluffs)	8-1-44	\$15.00 per month flat rental	2-23-45
Buck's Coat Market	Grocery Store	HC-4.1	6-10-43	\$85.00 per month flat rental (Renegotiated 11-10-43) \$285.19 per month flat rental (Renegotiated 11-1-44 @ 12% gross sales)	6-30-44 2-23-45
Burdett Garbage Collection	Collecting Garbage	Collecting from Mess Hall #6	7-1-44	\$75.00 per month flat rental	2-20-45
Burrill Insurance Brokerage	Insurance Agency	Bldg. HC-9	7-18-44	10% gross sales	8-31-44
Cheney Ladies Extension Courses	Correspondence Courses	Office space in Training & Relations Bldg.	10-34-44	10% gross sales	1-31-45
Chlorine Meat Company	Meat Market	HC-4.1	11-23-43	\$115.00 per month flat rental	1-31-45
Contracture Sales & Service	Garage & Oil Station	Tract Bldg. B-128	8-16-43	\$15.00 plus \$30.00 (Renegotiated 4-1-44) 1¢ per gallon for all gasoline sold 5¢ on all truck rubber sold 2% on all other sales	2-23-45 2-24-45
Coy Barber Shop	Barber Shop	B-wing of Barracks #201	8-8-44 <small>(Contract never completely signed)</small>	10% gross sales	8-30-44
Dey Beauty Shop	Beauty Shop	B-wing of Barracks #201	8-9-44	10% gross sales	8-30-44
Edenay Drug Store	Drug Store	HC-9	12-4-43	\$200.00 per month flat rental (Attempting to negotiate the contract to percentage basis at present time).	2-24-45
Employee's Garage	Garage	Bldg. owned by operator	2-1-44	2% gross sales	2-19-45
English Drug Store	Drug Store	R-1821 (White Bluffs)	8-1-43	\$40.00 per month flat rental	8-30-44
English Foot Wear Stand	Soft drink stand	Butment	8-8-44	10% gross sales	12-18-44
English Soda Fountain	Soda Fountain	HC-9	7-2-44	5% gross sales	2-10-45
Eura's beauty Salons	Beauty Shop	HC-9.1	8-10-44	5% gross sales	12- 8-44
Fairly Game of Skill	Mechanical games of skill	To be in bowling alley	7-8-43 (Contract did not go into operation)	50% gross sales	12-23-43
Fairy Laundry	Tavern	R-1849 #6 (White Bluffs)	11-16-43	\$61.34 per month flat rental	6-31-44
Goodrich Tire Store	Selling Tires	Butment	9-12-44	12% gross sales	2-20-45
Hanford Clothing Store	Clothing Store	Butment	7-1-44	12% gross sales	2-10-45
Hanford Drug Store	Drug Store	HC-9.1	8-12-44	3-3/4% gross sales (Renegotiated 7-13-44 \$206.55 per month flat rental)	11-28-44
HEN Employees Association	Coca Cola Distribution	Field Area	7-24-44	10¢ per case for all Coca Cola sold under this contract.	
HIC Employees Association	Social dancing Bowling Alley Games of Skill		12-23-43 3-15-44 12-23-43	\$60.00 for each day of operation \$420.00 per month \$1.00 per month each machine	1-15-45
Hanford Food Shop	Grocery Store	HC-41.2	8-15-44	2½% gross sales	2-10-45
Hanford Shoe & Shoe Repair	Shoe Store & Repairing	D-232 #1	3-31-44	2% gross sales	2-15-45
Harmen Laundry Agency	Laundering & Neutralizing	HC-9	8-1-44	5% gross sales	2-24-45
Hollywood Shoppe	Clothing Store	B-161	4-3-44	4% gross sales (Not to exceed \$300.00 per month)	2-10-45
Jackson Beauty Salons	Beauty Parlor	B-wing of Barracks #201	7-1-44	10% gross sales	1-31-45
Johannson Optometrist Shop	Optical Shop	D-232 #2	8-14-44	5% gross sales	11-20-45
Leasing Tire Company	Tire repair & Garage	Bldg. owned by operator	8-18-44	12% gross sales	2-10-45
Mahan Garbage Collection	Collecting Garbage	Collecting from Mess Hall #6		\$25.00 per month flat rental	8-12-44

SHEET 1 OF 2 SHEETS

B18

**HANFORD ENGINEER WORKS**  
 PROJECT 9536  
**HC - HANFORD COMMERCIAL CONTRACTS**

NAME	TYPE	LOCATION	INCEPT. DATE	TERMS	CANC. DATE
McBain Garbage Collection	Collecting Garbage	Collecting from Mess Halls #4 & #7	2-12-44 (Contract as yet unsigned)	\$25.00 per month for each Mess Hall	#6 Cancelled 11-11-44 #7 Cancelled 9-23-44
Mary's Alteration Shop	Clothing alteration & repair	B-161	3-27-44	5% gross sales	2-10-44
Mess Hall - Little Pasco	Feeding new recruits	Little Pasco Bar, Pasco, Washington	6-12-44	5% gross sales	11-7-44
Midstate Amusement Corp.	Motion Pictures	Theat	10-30-43	\$114.61 per month flat rental	1-1-44
Midstate Amusement Corp.	Motion Pictures	MC-5	1-1-44	\$614.54 per month flat rental (Negotiated 11-1-44) 10% gross admissions receipts from theatre 5% gross sales candy, pop, snack and confections	2-11-44
Miller's Outdoor Theatre	Motion Pictures	Playground Park	10-1-43	\$25.00 per month flat rental	10-2-43
Miller's Hanford Roller Rink	Roller Skating Rink	Building belonging to operator	6-8-44	10% gross sales	11-26-44
Woodham Filling Station	Oil station & garage	D-230	7-17-43	\$80.00 per month flat rental	2-8-44
C'Mearns Outdoor Theatre	Motion Pictures	Between Bar. V1-C & V1-D (Outdoors)	8- 9-43	\$15.00 per month flat rental	
Pacific Power & Light Co.	Selling Equipment & Power	E-1824 (White Bluffs)	8- 1-43	\$25.00 per month flat rental	12-31-43
Quigley Riding Academy	Renting horses	B-3 & D-3 all structures on Tract CC-180	8-12-44	5% gross sales	11- 1-44
Railway Express Agency	Shipping	B-44	12-23-43	\$11.55 per month flat rental	
Katecliff Fix-It Shop	Repairing items	Business	7-22-44	5% gross sales	2-15-44
Richardson Garage	Garage	B-69	1-15-44	\$14.00 per month flat rental	4-30-44
Bishfield Oil Corporation	Service Station & Garage	MC-6	2- 1-44	\$0.0125 per gallon sold	2-16-44
Robertson Garbage Collection	Collecting Garbage	Collecting from Mess Halls #6, #8, & #4	4-25-44	\$25.00 per month per Mess hall	#6 Mess Hall 9- 3-44 #8 Mess Hall 2- 1-44 #4 Mess Hall 1-19-44
Eager Pop Corn Stand	Pop corn	Build. owned by operator	8- 2-44	5% gross sales	2- 4-44
Saylor Hanford Beauty Salons	Beauty Shop	D-212 #2	8- 9-43	\$27.10 per month flat rental	11-11-43
Saylor Hanford Beauty Salons	Beauty Shop	MC-6	12-7-43	\$65.00 per month flat rental	2-10-44
Sehicks Service Station	Service Station	E-1644 (White Bluffs)	7-20-43	\$16.00 per month flat rental	6-30-44
Sears Roebuck & Company	General Merchandise Store	D-232	8- 9-43	\$63.70 per month flat rental	2- 3-44
Sears Roebuck & Company	General Merchandise Store	B-161	12-1-43	\$64.20 per month flat rental	2- 3-44
Sears Roebuck & Company	General Merchandise Store	MC-4-2	2- 4-44	\$242.00 per month flat rental	1-31-44
Shoem-Layman-Shoem	Barber Shop	D-232 #2 (and all other barber shops in Hanford)	8-6-43	10% gross sales	2-18-44
Shoem Barber Shop	Barber Shop	MC-8-1	4-27-44	10% gross sales	11-26-44
Tate Barber Shop	Barber Shop	B-wing of Barracks #201	8-21-44	10% gross sales	2-18-44
Unakles Fix-It Shop	Repairing items	Business	8- 9-44	5% gross sales	7-22-44
Union Oil of California	Bulk Station	Q-1647 (White Bluffs)	8-27-43	\$15.00 per month flat rental	10-18-44
Valley Theatre Corp.	Motion Pictures	MC-53	7- 1-44	10% gross admissions; 5% gross sales candy, at extra	
Victory Laundry	Laundry & Cleaning Service	B-141	5- 6-43 (Contract never signed)	\$1.00 to cover entire period	3-21-44
Bogner-Littljohn Barber Shop	Barber Shop	B-wing of Barracks #201	7- 1-44	10% gross sales	8-21-44
Bishfield & Goldberg Jewelry Store	Jewelry Shop	Business	7- 1-44	10% gross sales	2-10-44
Western Union	Telegraph messages	MC-4	8-20-44	\$28.75 per month flat rental	
Booda-LaBelle Extension Courses	Correspondence courses	Office space in Training & Relations Bldg.	10-24-44	10% gross sales	1-31-44
Yakima-Hanford Stage Company	Bus Service	MC-17	1- 8-44	\$25.00 per month flat rental	2-28-44

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HANFORD CAMP BUILDING CONSTRUCTION DATES

Below is a list of the major "HC Building Construction," other than housing facilities, giving dates when construction was originally started (including additions and major revisions) and completed. In almost all cases these buildings were occupied long before the final completion dates shown here, as these dates reflect late deliveries of heating, ventilating, refrigeration, and cooling equipment.

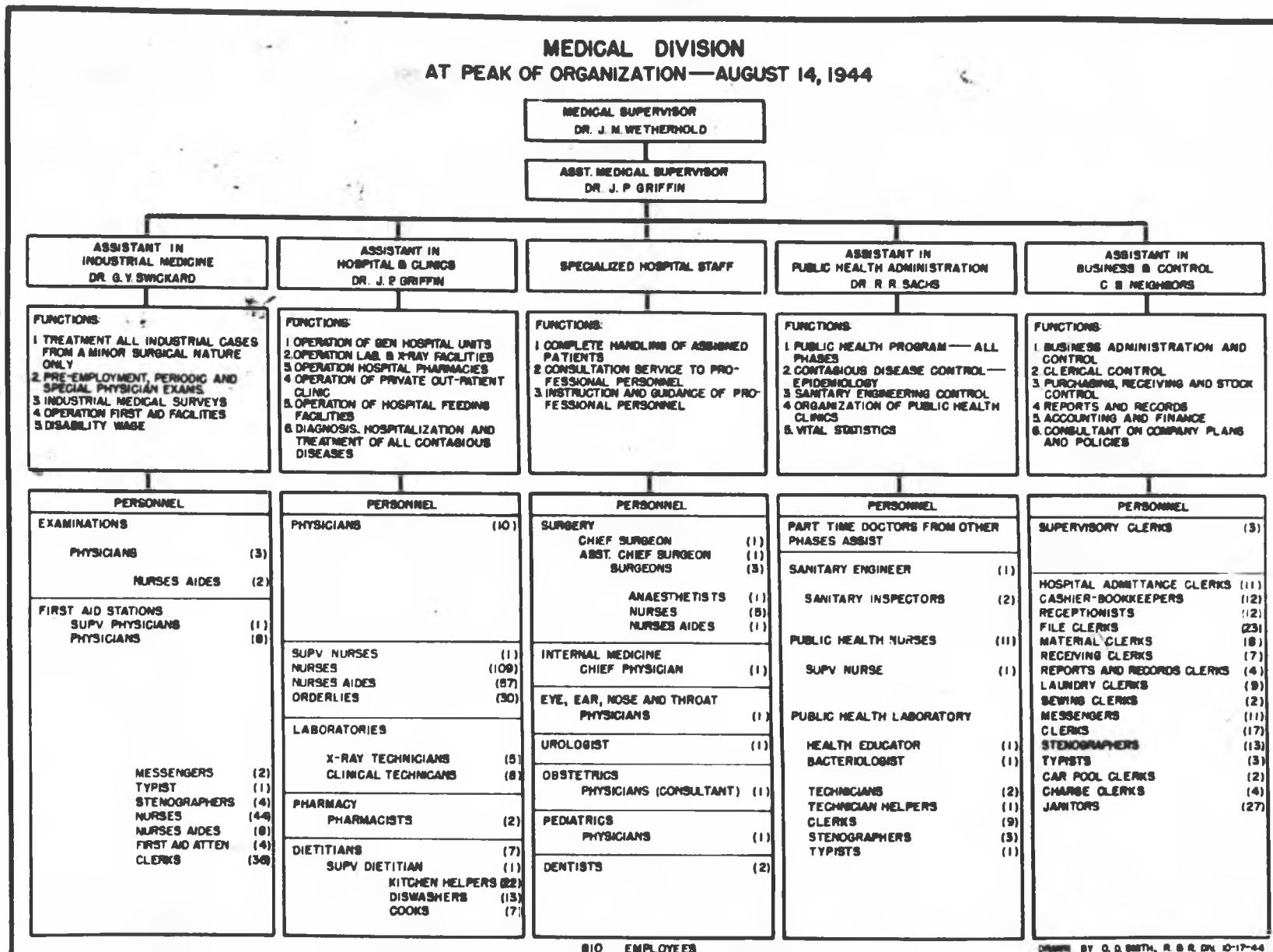
<u>Code Number</u>	<u>Building Name</u>	<u>Started</u>	<u>Completed</u>
HC-3	Mess Hall No. 1	April 14, 1943	Sept. 10, 1943*
	Mess Hall No. 2	May 19, 1943	Nov. 20, 1943*
	Mess Hall No. 3	June 18, 1943	Sept. 8, 1943
	Mess Hall No. 4	May 18, 1943	Nov. 20, 1943
	Mess Hall No. 5	May 18, 1943	Nov. 20, 1943
	Mess Hall No. 6	Nov. 15, 1943	Jan. 1, 1944
	Mess Hall No. 7	Nov. 29, 1943	Feb. 12, 1944
	Mess Hall No. 8	Feb. 2, 1944	March 18, 1944
	Sandwich Shop	Nov. 21, 1943	Jan. 8, 1944
	Evisceration Building	Nov. 19, 1943	March 30, 1944
HC-4	Grocery Store No. 1	Oct. 18, 1943	Nov. 25, 1943
	Grocery Store No. 2	Jan. 31, 1944	March 4, 1944
	Sears, Roebuck and Co.	Dec. 18, 1943	Jan. 15, 1944
	Western Union	March 6, 1944	March 23, 1944
HC-5	Hanford Theater	Oct. 20, 1943	Dec. 15, 1943
	Valley Theater	June 6, 1944	June 30, 1944
HC-6	Commissary No. 1	July 5, 1943	March 15, 1944*
	Commissary No. 2	Feb. 28, 1944	April 15, 1944
	Commissary No. 3	July 17, 1944	August 30, 1944
	Commissary No. 4	June 5, 1944	July 29, 1944
HC-7	Gas & Service Sta. No. 1	Dec. 21, 1943	Feb. 12, 1944
	Gas & Service Sta. No. 2	Jan. 28, 1944	March 28, 1944
HC-8	Combined Stores Bldg.		
	No. 1	Oct. 18, 1943	Nov. 27, 1943
	Combined Stores Bldg.		
	No. 2	May 22, 1944	June 20, 1944
HC-9	Laundry		
HC-10	Bank	July 6, 1943	Nov. 10, 1943**
HC-11	Post Office	June 29, 1943	Dec. 10, 1943*
HC-12	Bowling Alley	Jan. 3, 1944	Feb. 19, 1944
HC-13	Community Service and Welfare Building	Dec. 13, 1943	Jan. 10, 1944
HC-14	Auditorium - Gymnasium	May 29, 1944	June 30, 1944
HC-15	Commercial Bus Depot	Jan. 3, 1944	Jan. 27, 1944
SW	Hanford Lake	July 4, 1944	July 18, 1944

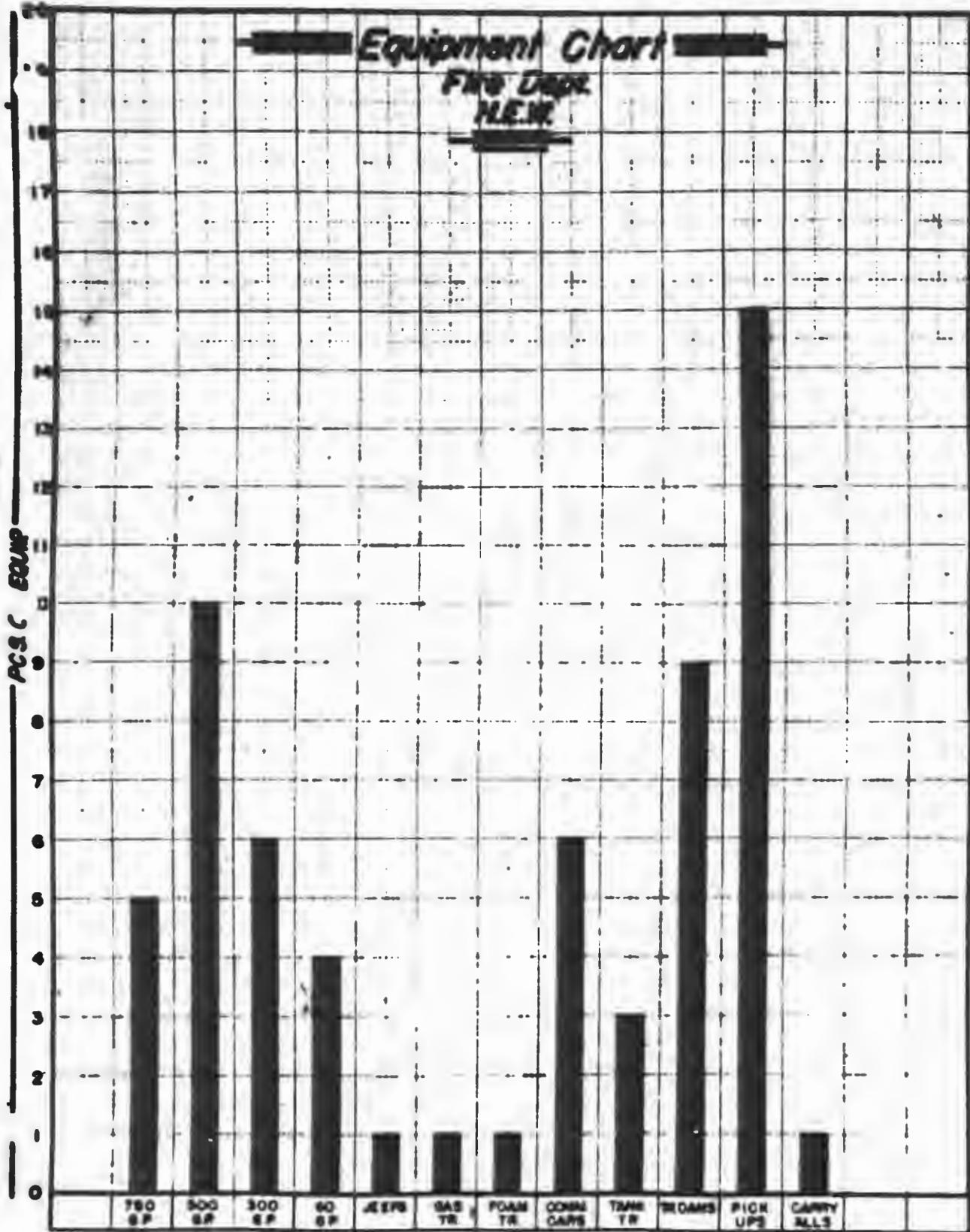
\* First Addition

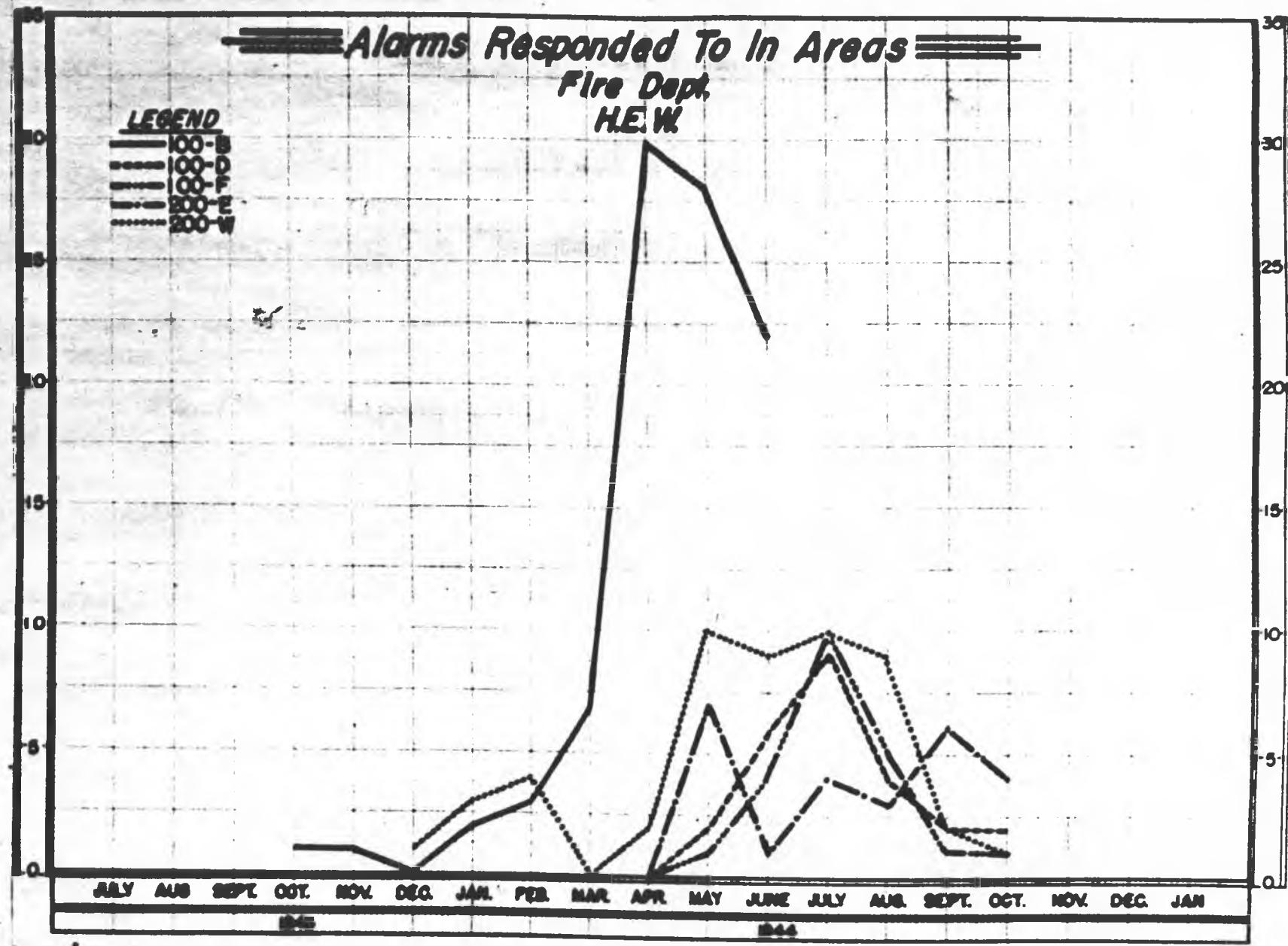
\*\* Second Addition

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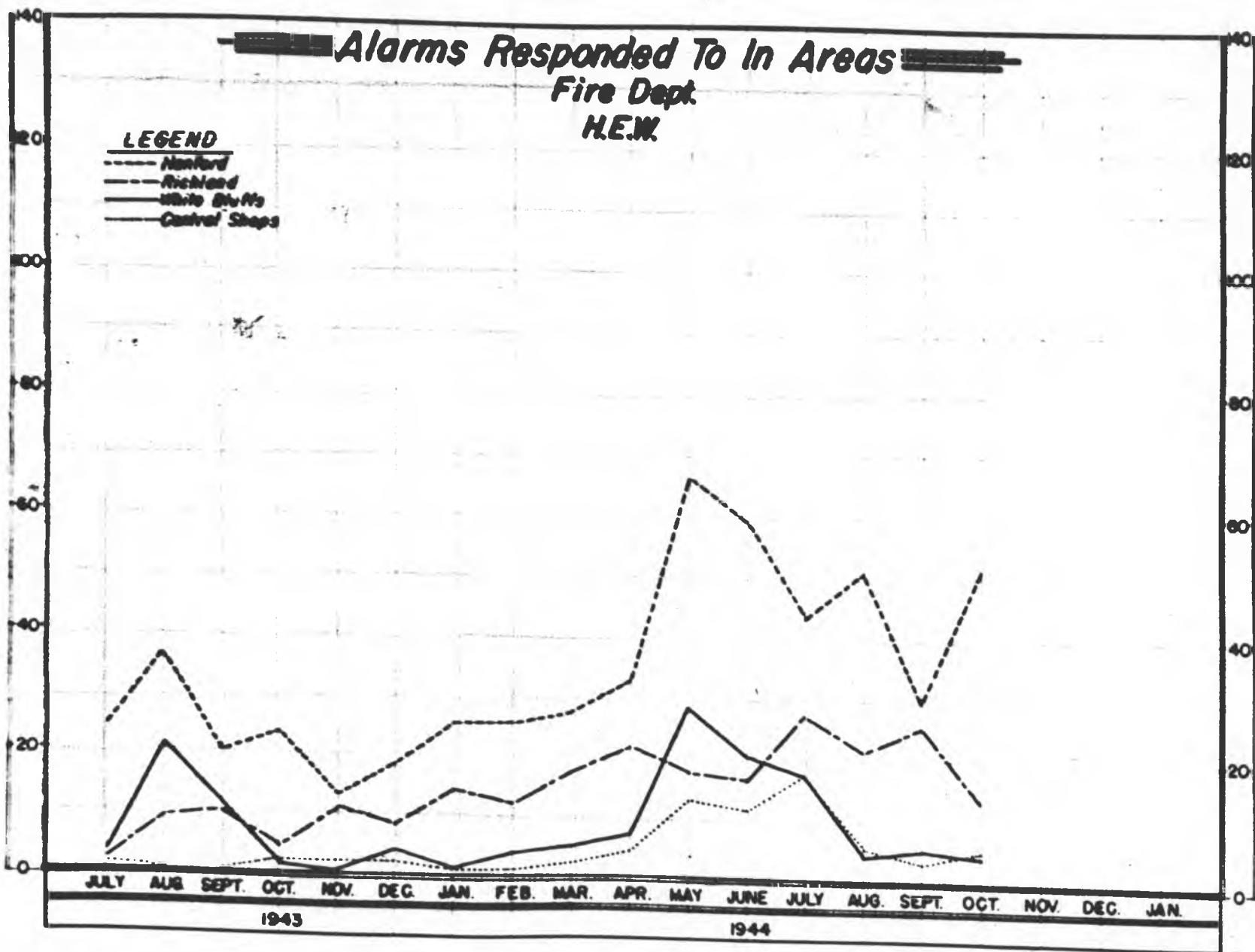
**MEDICAL DIVISION**  
**AT PEAK OF ORGANIZATION—AUGUST 14, 1944**







B22



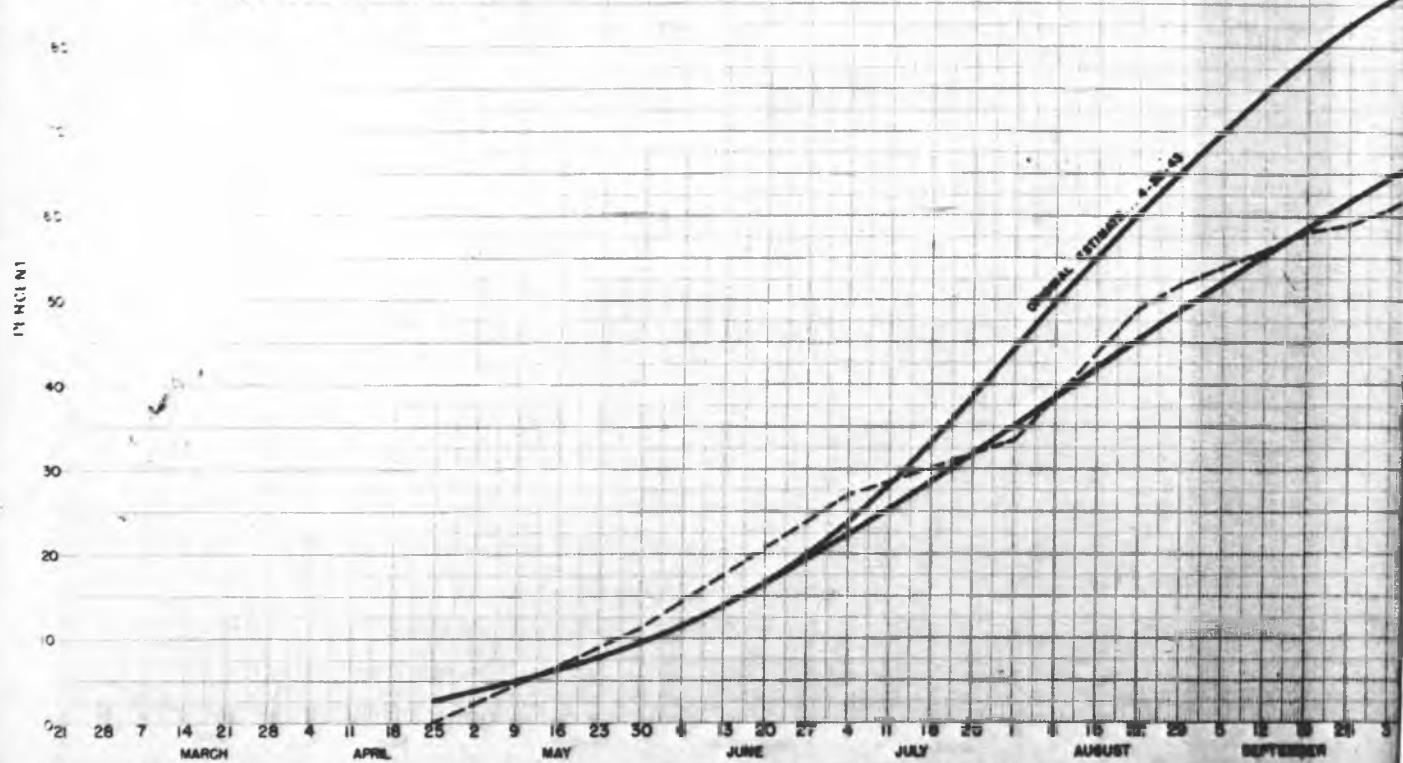
~~SECRET~~  
HANFORD CAMP SUBCONTRACTS

Below is a tabulation of major subcontracts awarded, giving name of subcontractor and scope of work:

<u>RPG Number</u>	<u>Subcontractor</u>	<u>Scope of Work</u>
501	Pittsburg-Des Moines Steel Company	Dismantling and erecting elevated storage tanks.
571	Ranney Water Collector Corp.	Investigation Water Supply
581	Internation Water Supply, Ltd.	Well Drilling & Test Pumping
401 & 416	A. A. Durand & Sons	Well Drilling & Test Pumping
408	Newberry, Chandler & Lord	Electrical
411	Hankes-James-Zahniser & Warren	Piping
412	Sullivan Valve and Engineering Co.	Installation Boilers, No. 1 Boiler House
4323	Charles R. Brower	Insulation
4325	Brunswick-Balke-Collender Co., Inc.	Pool Tables
4333	Fentron Steel Works	Service Station No. 1
4334	Oscarin Brothers	Surfacing Roads and Walks.

LEGEND

- ESTIMATED PERCENT
- - - ACTUAL PERCENT
- \* ADDITIONAL WORK APPROVED

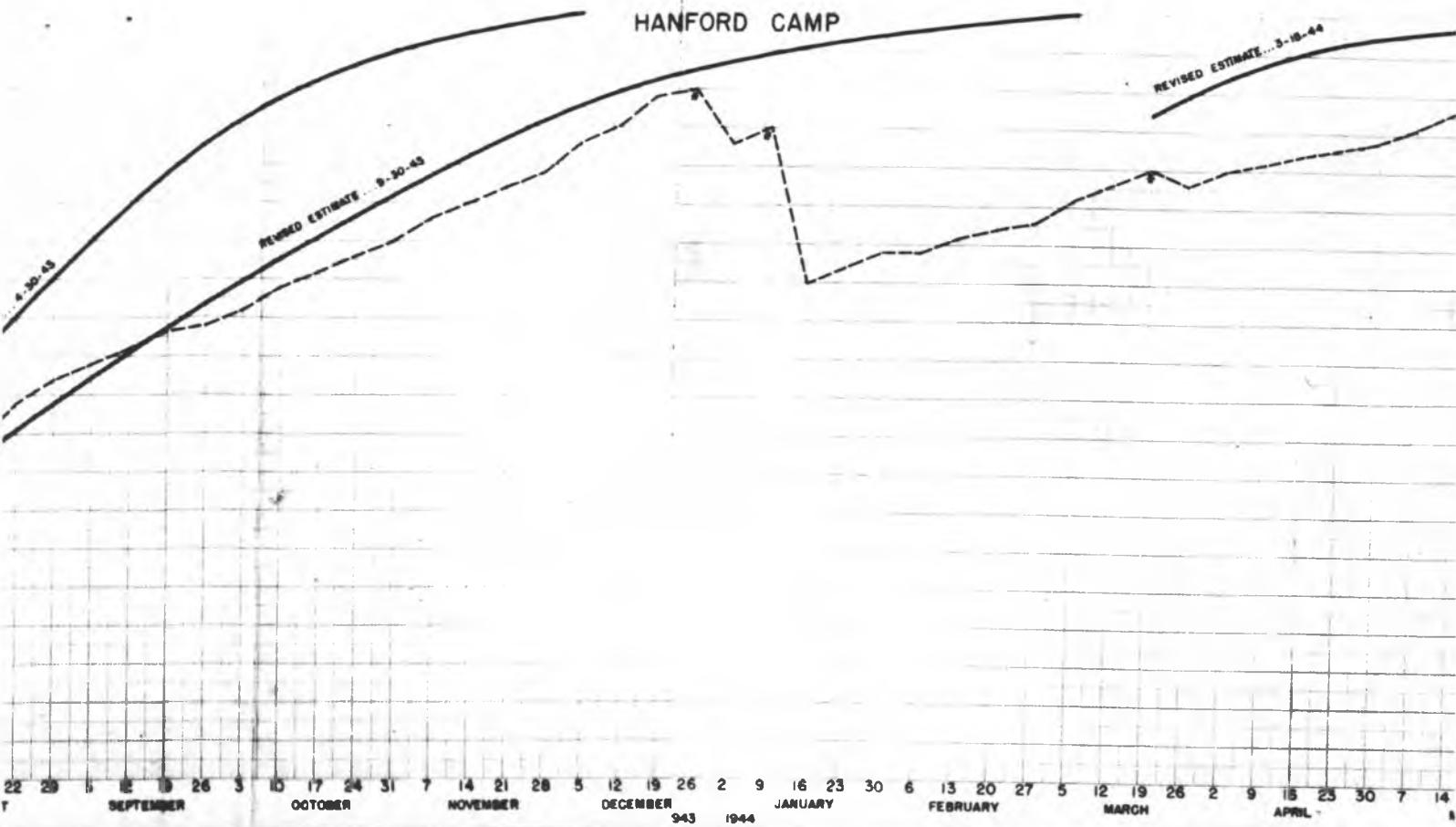


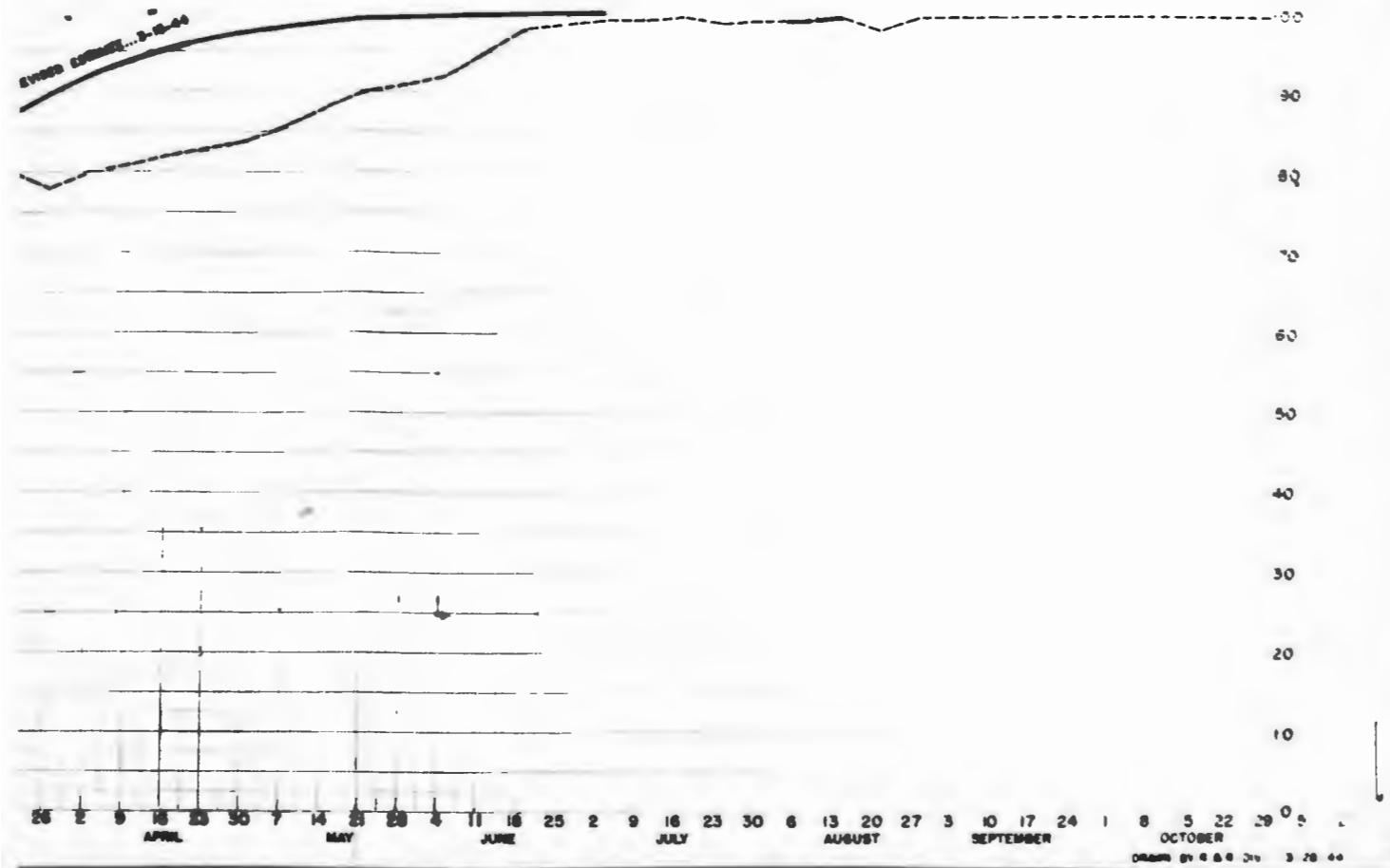
## COMPLETION FORECAST

HANFORD CAMP

REVISED ESTIMATE... 9-30-43

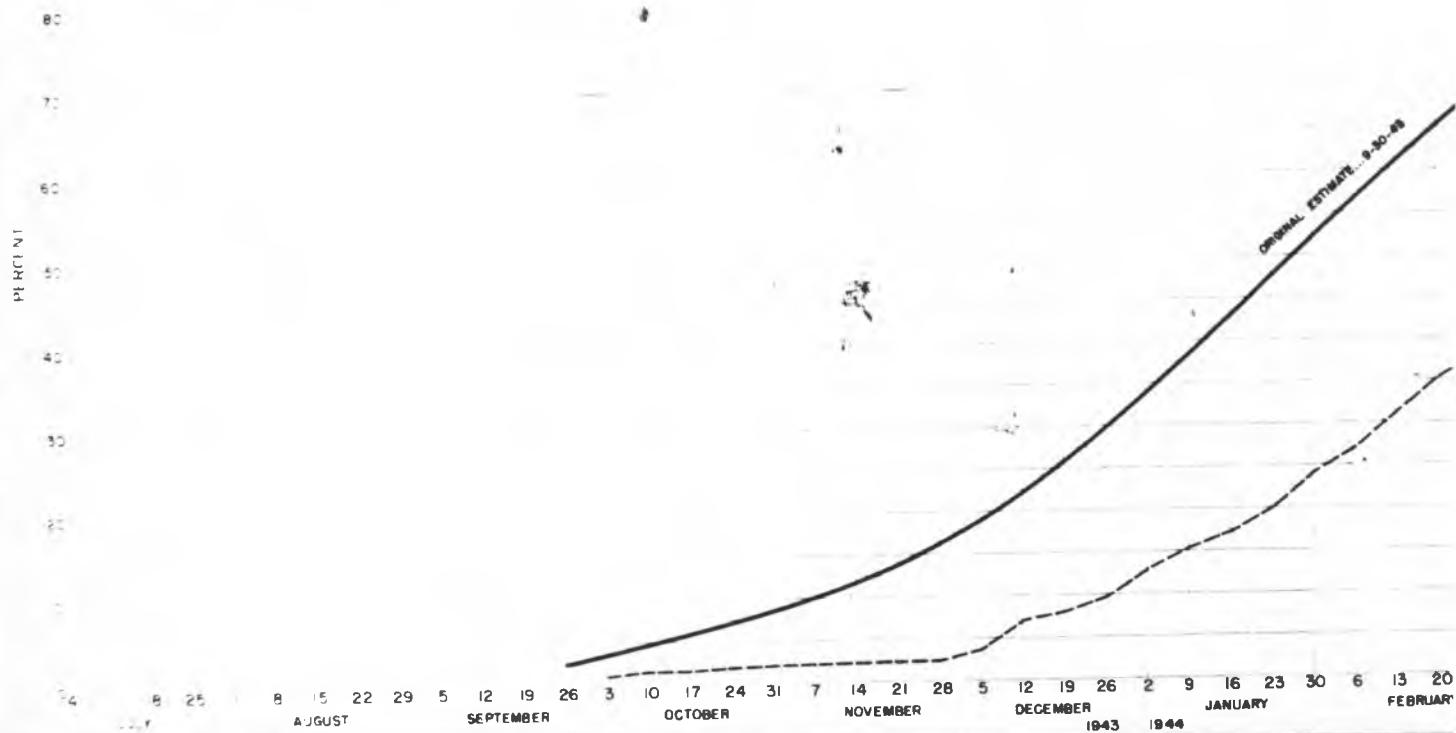
REVISED ESTIMATE... 3-18-44





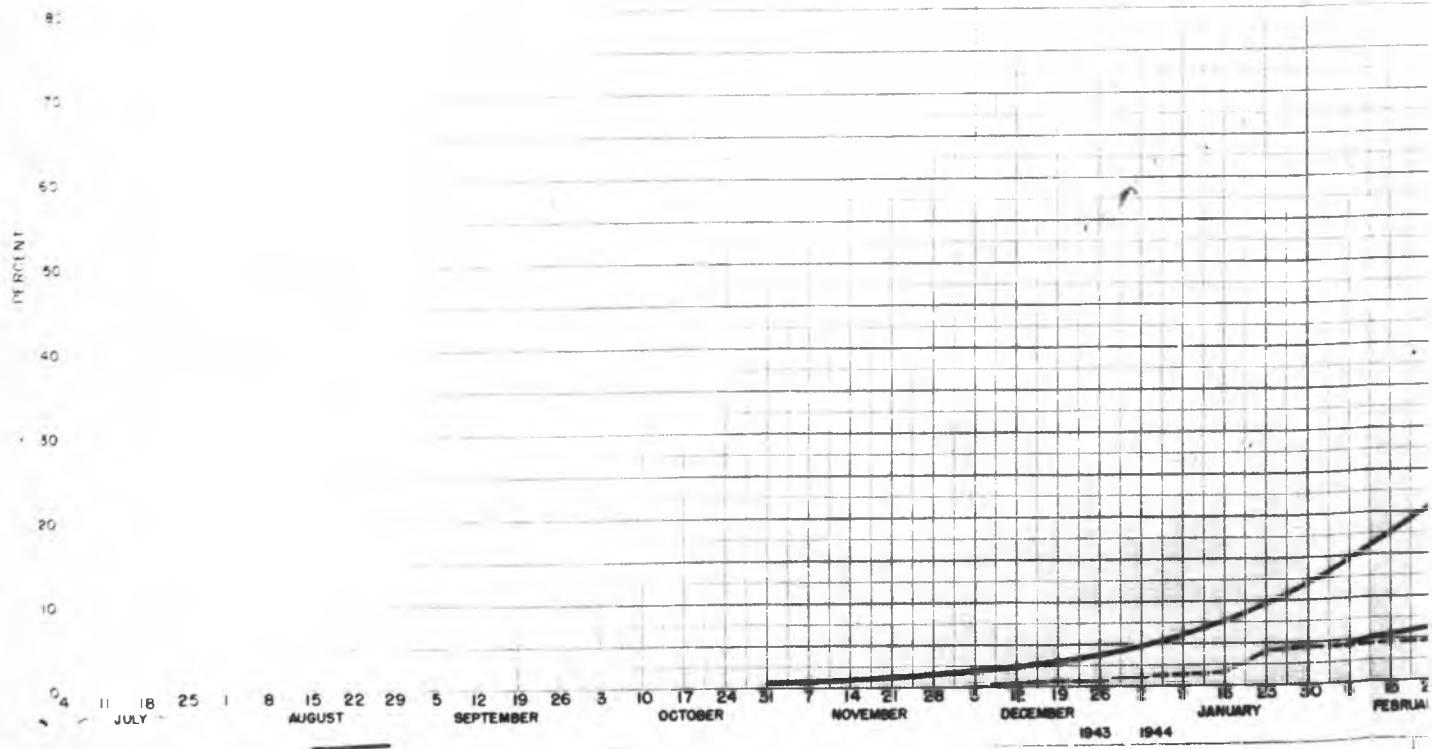
LEGEND

— ESTIMATED PERCENT  
- - - ACTUAL PERCENT



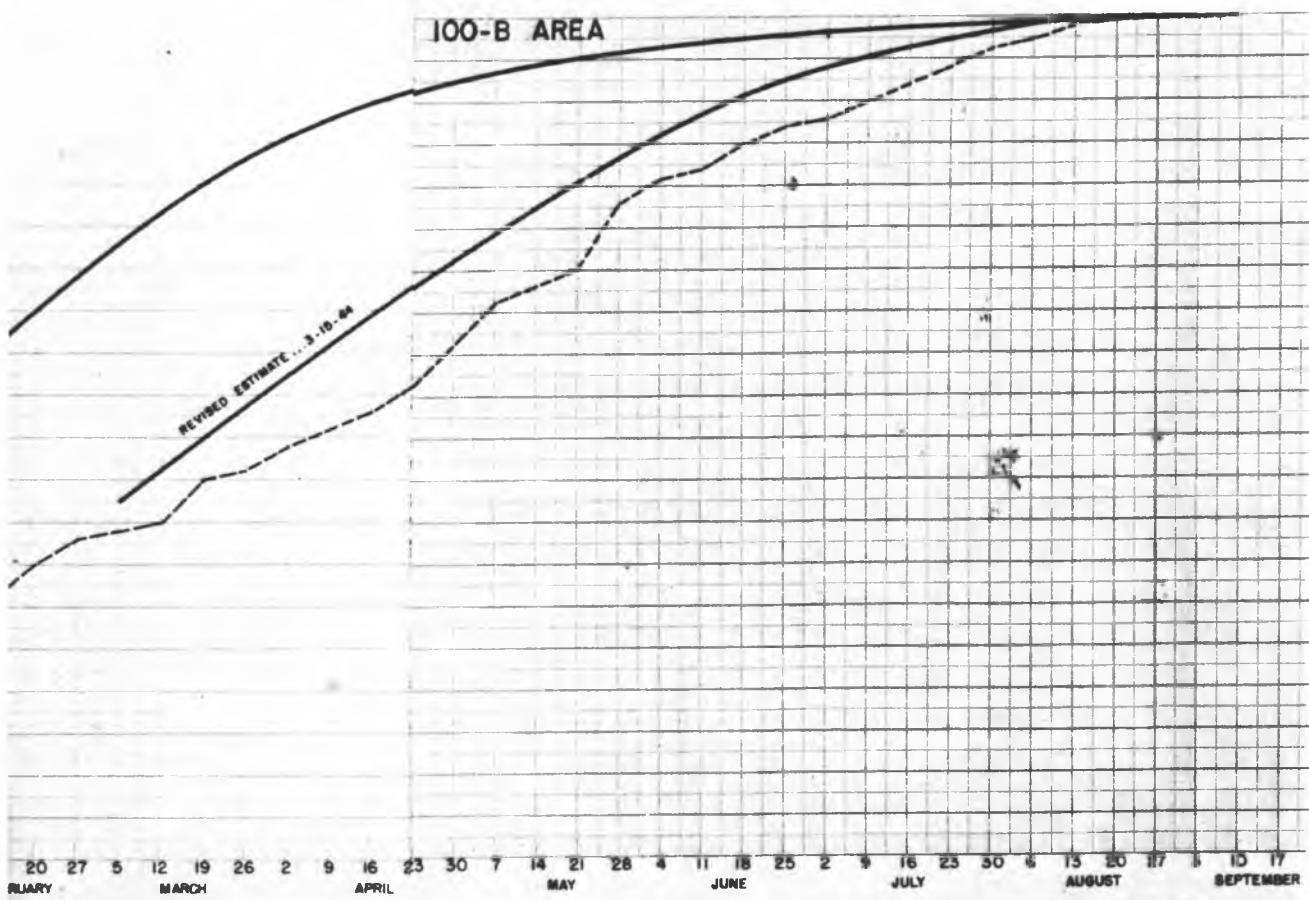
LEGEND

— ESTIMATED PERCENT  
- - - ACTUAL PERCENT



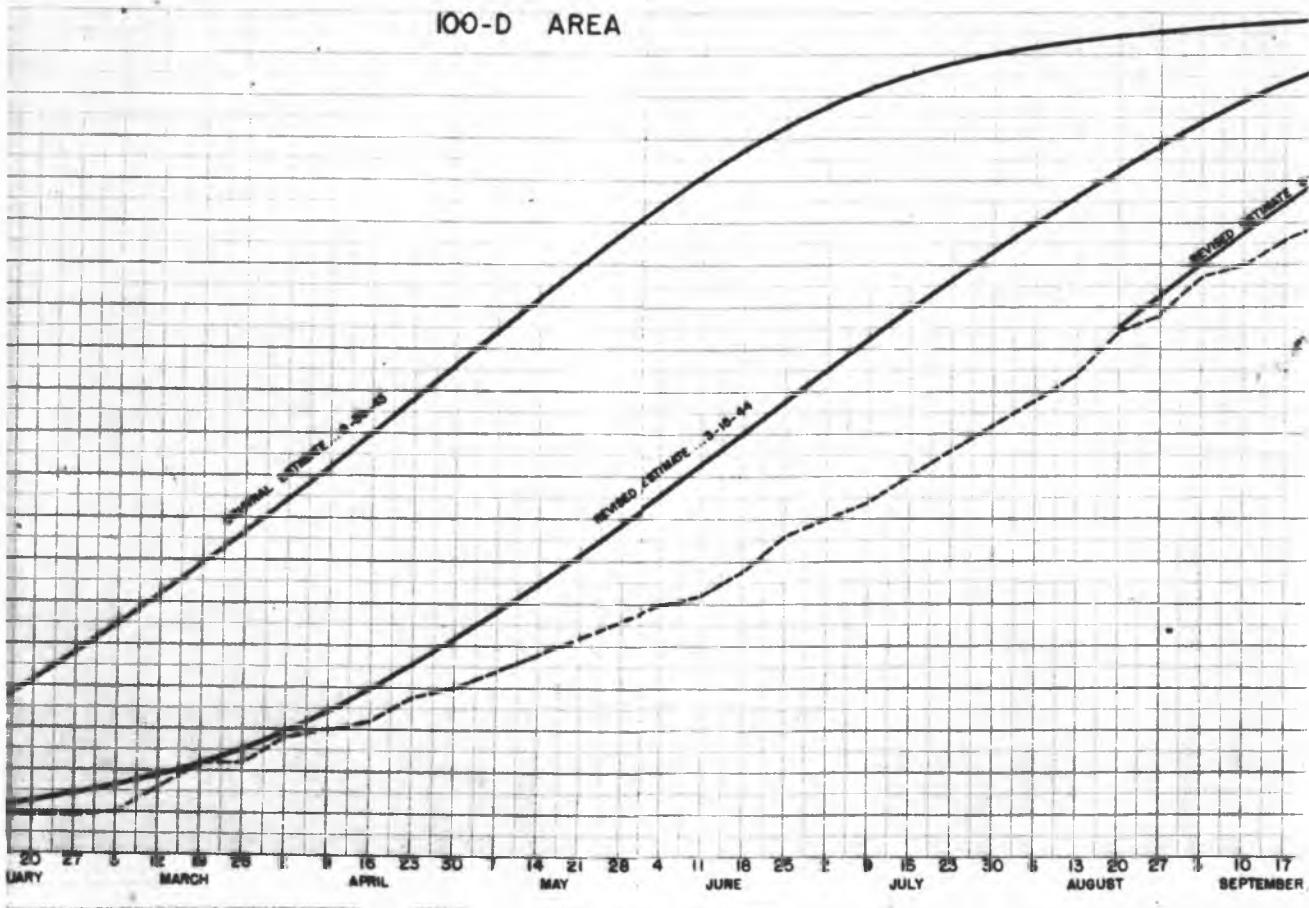
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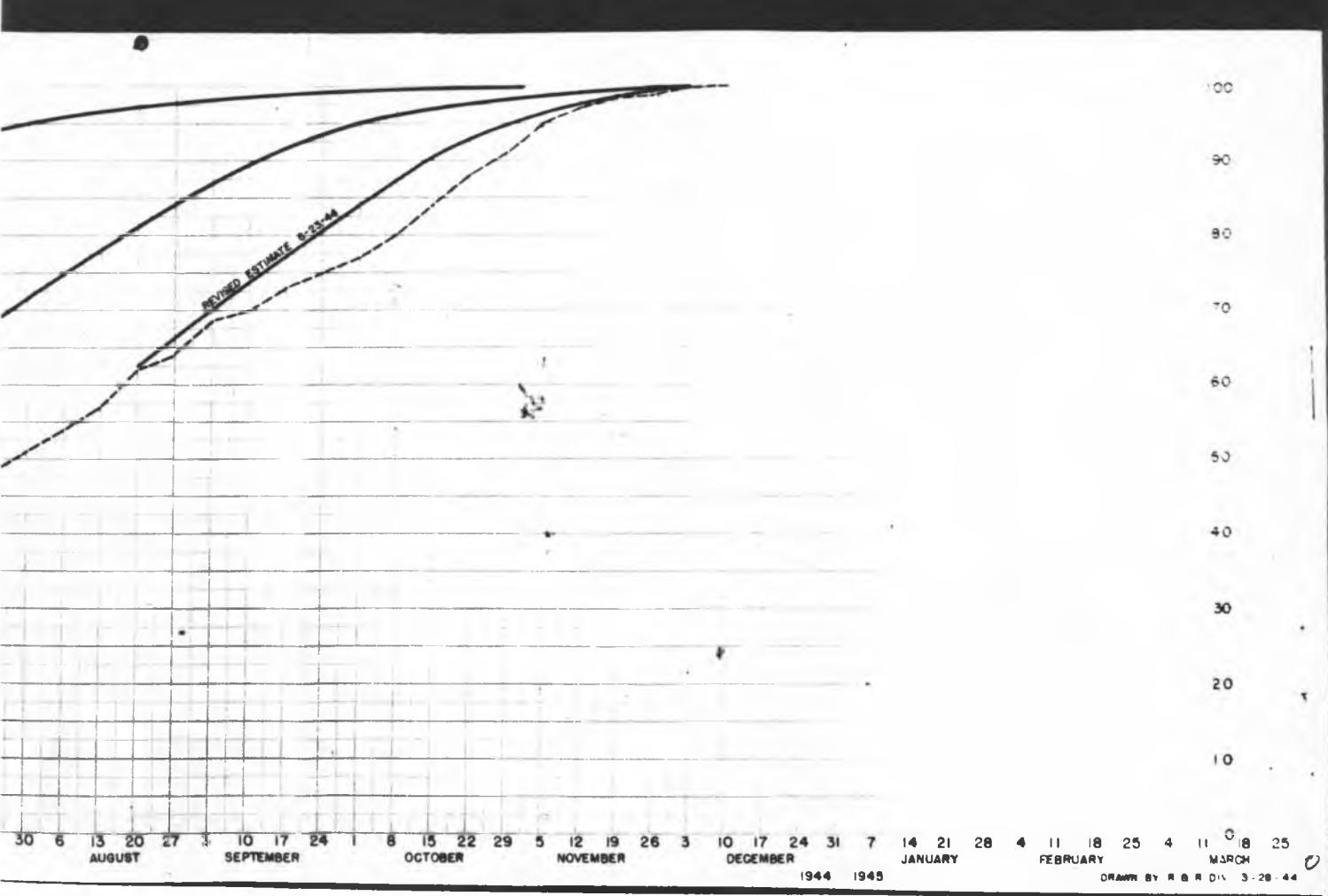
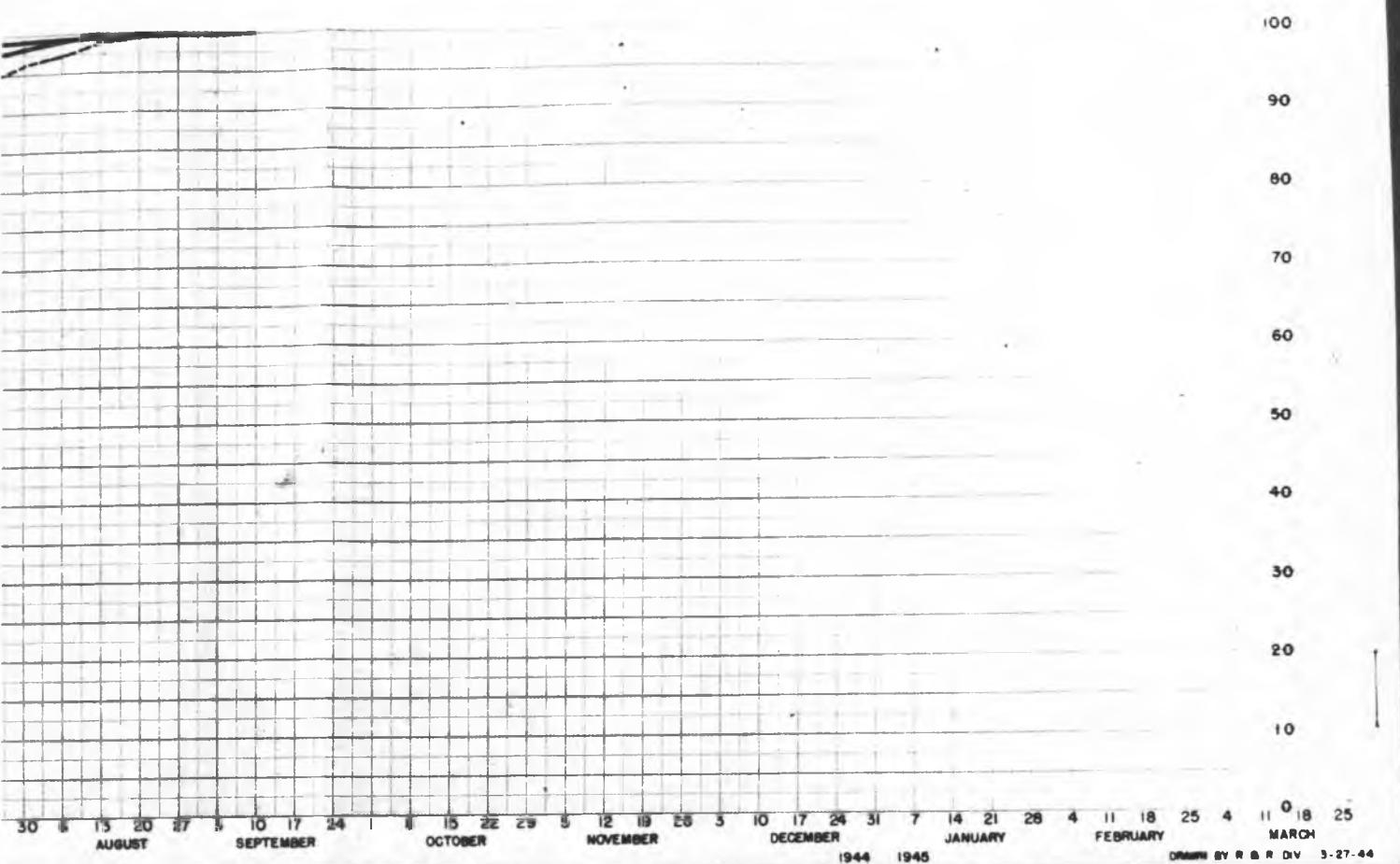
100-B AREA



## COMPLETION FORECAST

100-D AREA





A Clearer prints should be provided.

18 25

40

30

20

10

0 1 18 2  
JULY

2

4 8 25

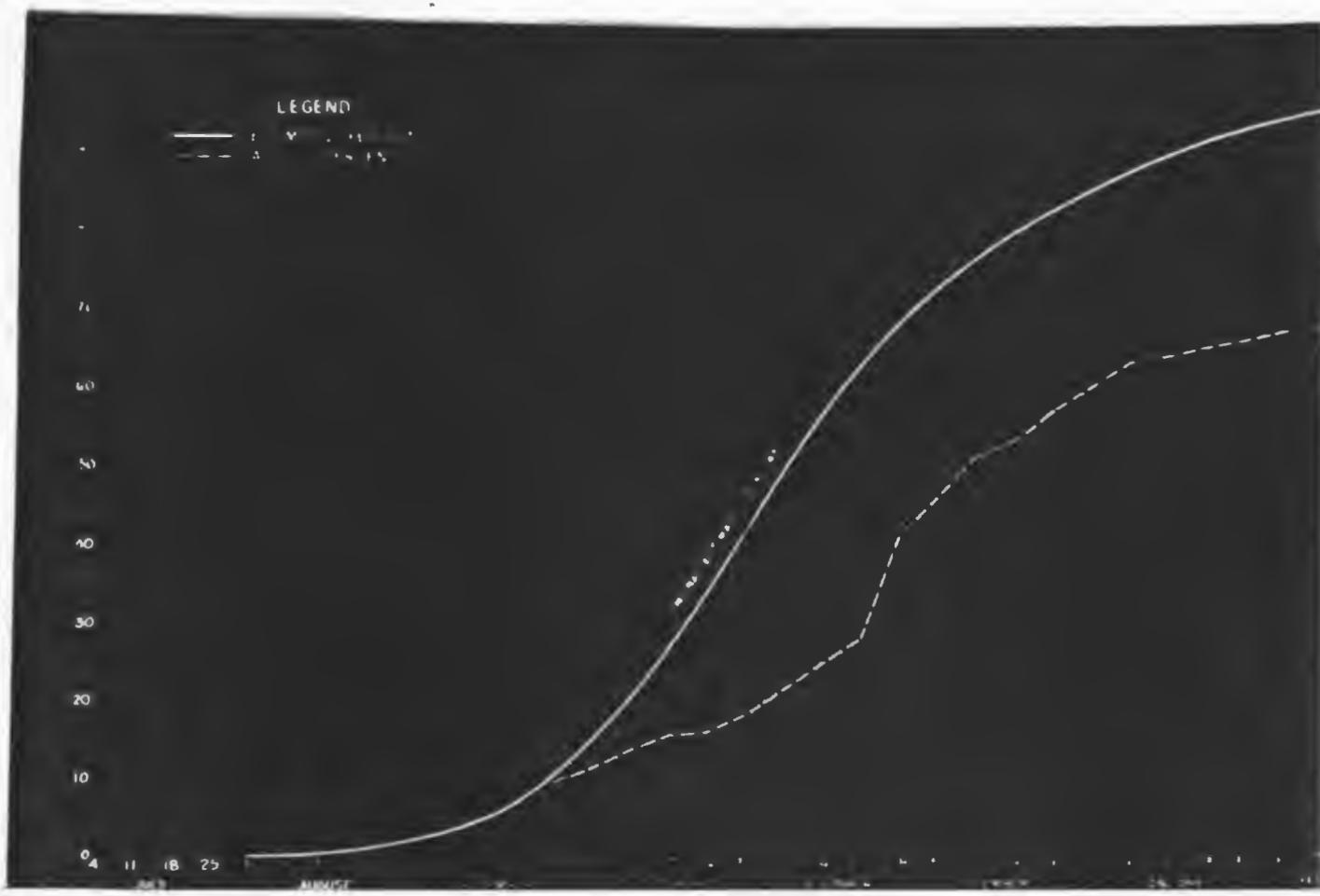
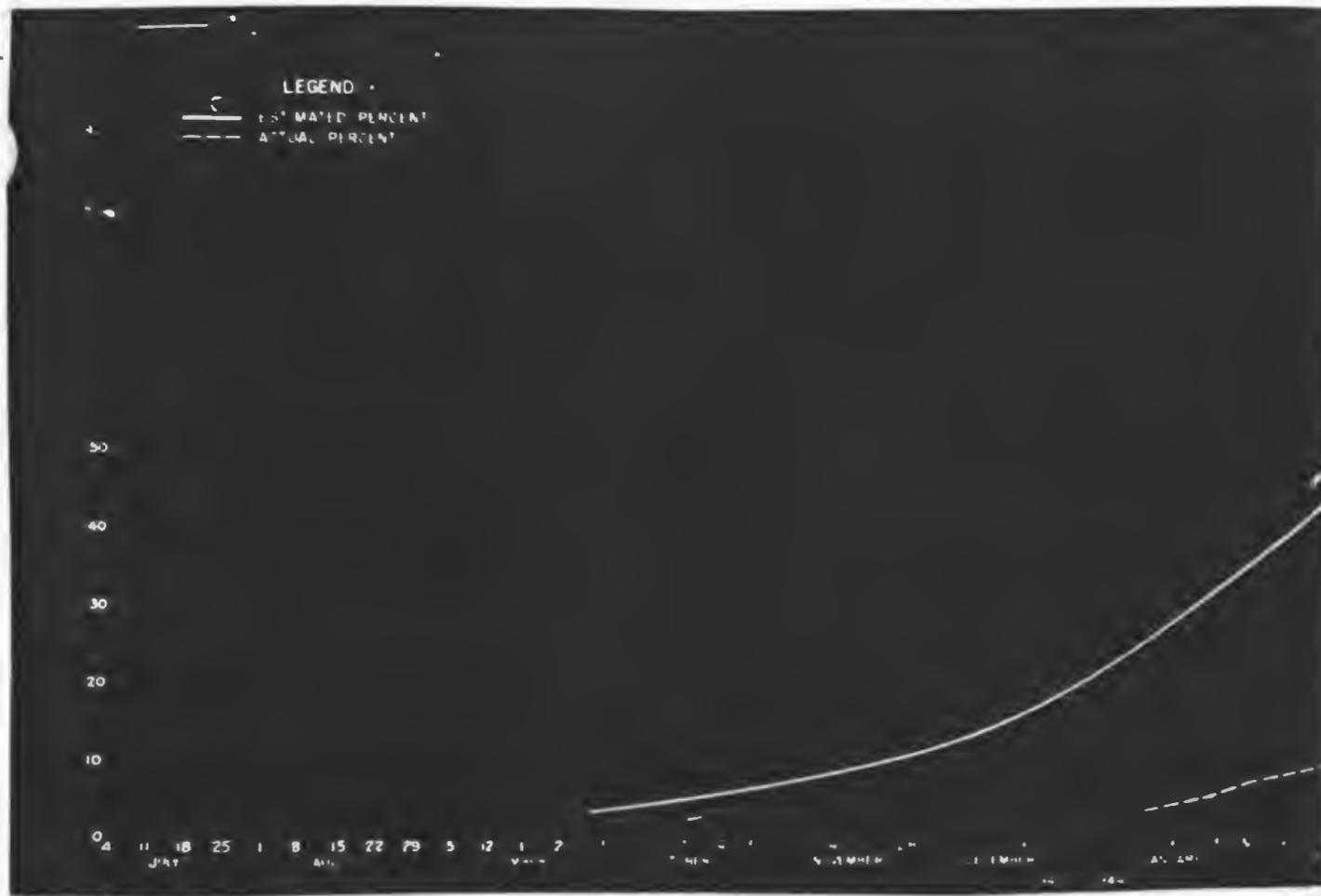
COMMITTEE OF THE WHOLE

RECEIVED  
JULY 10 1968

100  
90  
80  
70  
60  
50  
40  
30  
20  
10

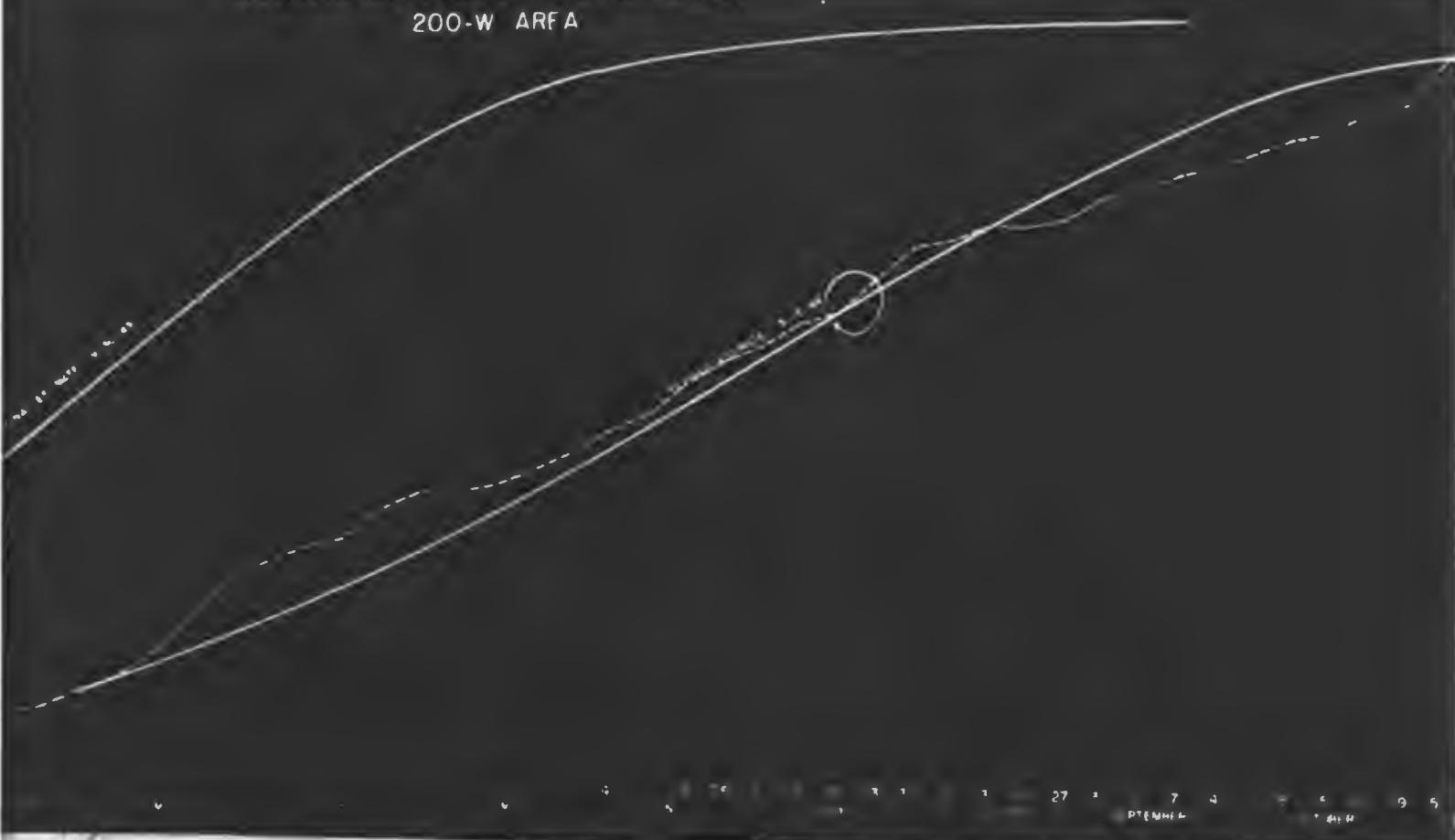
1944 1945

14 21 28 4 11 18 25 4 11 18 25  
FEBRUARY MARCH



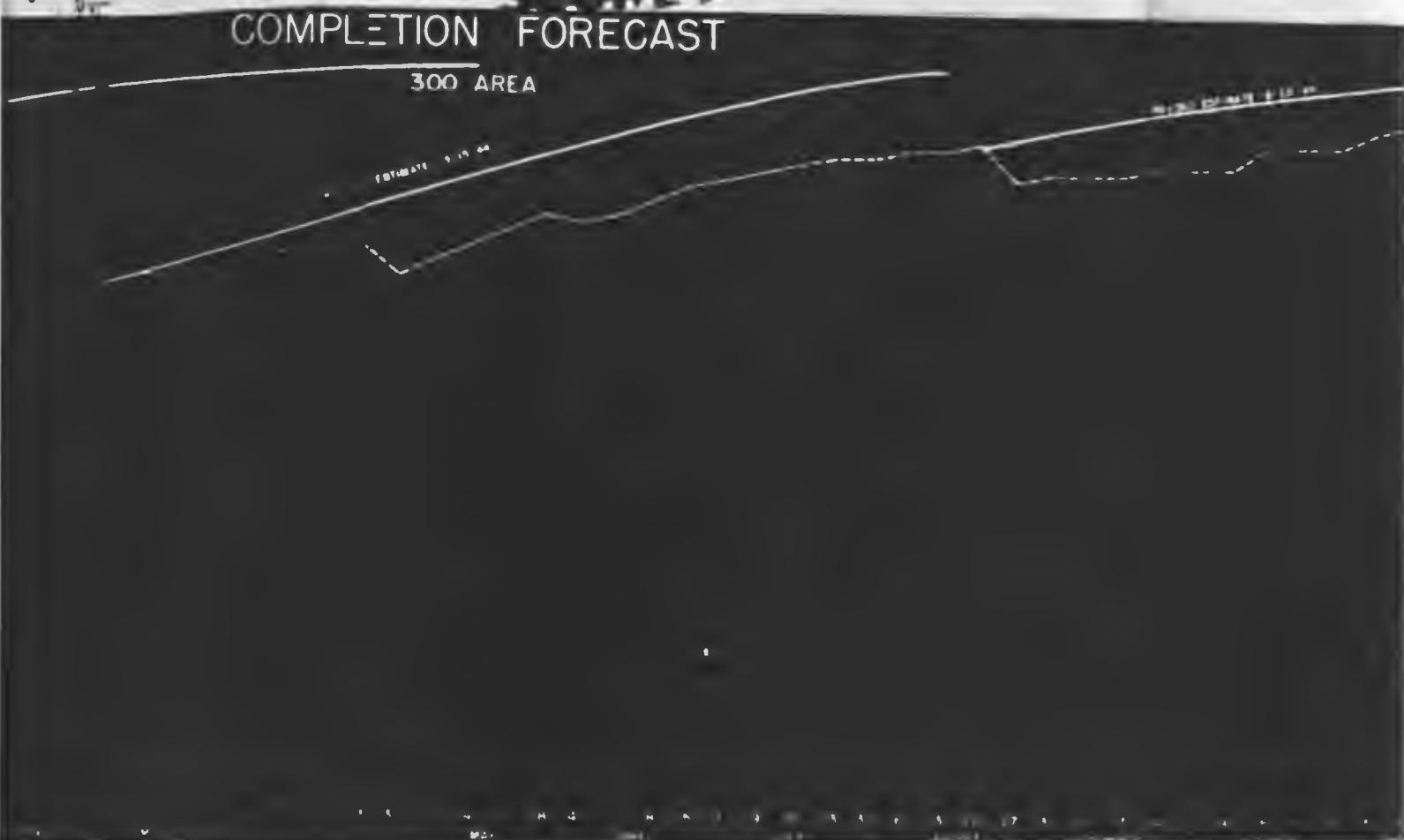
# COMPLETION FORECAST

200-W AREA

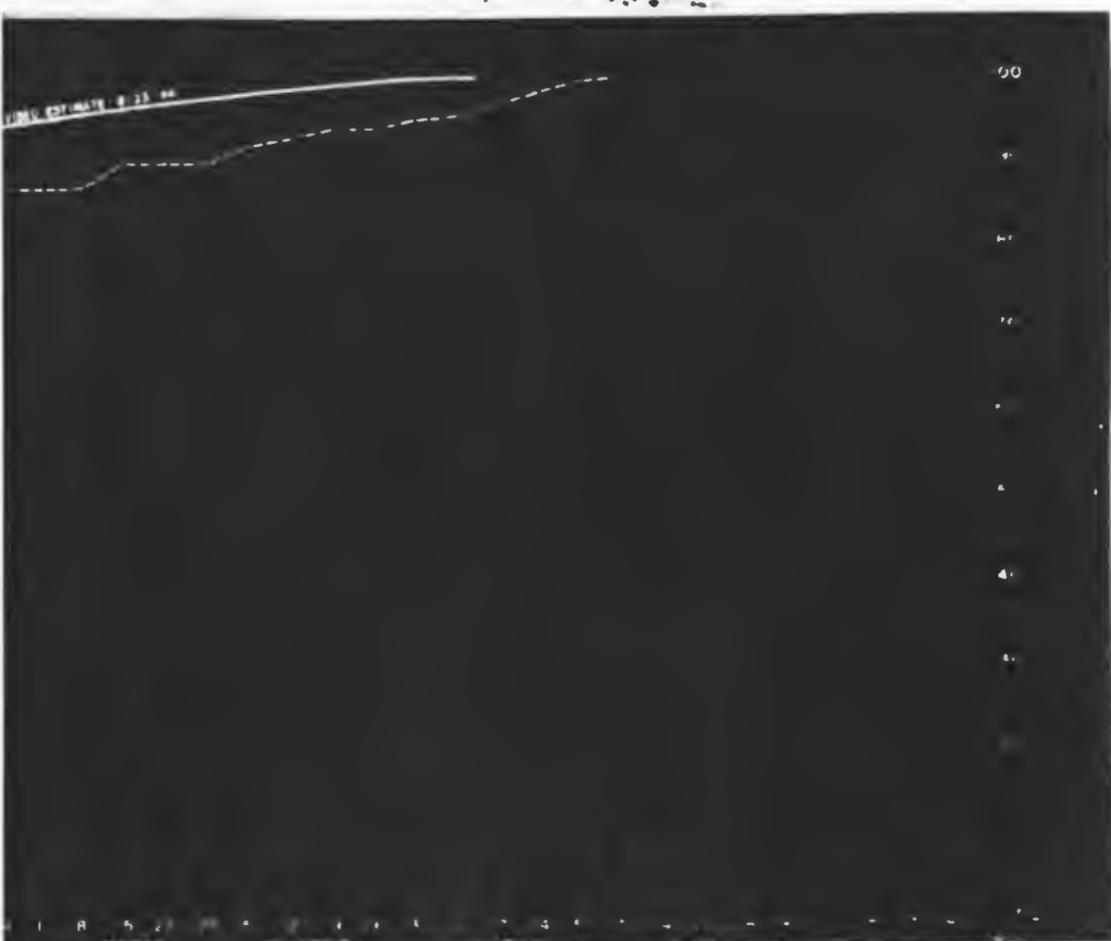
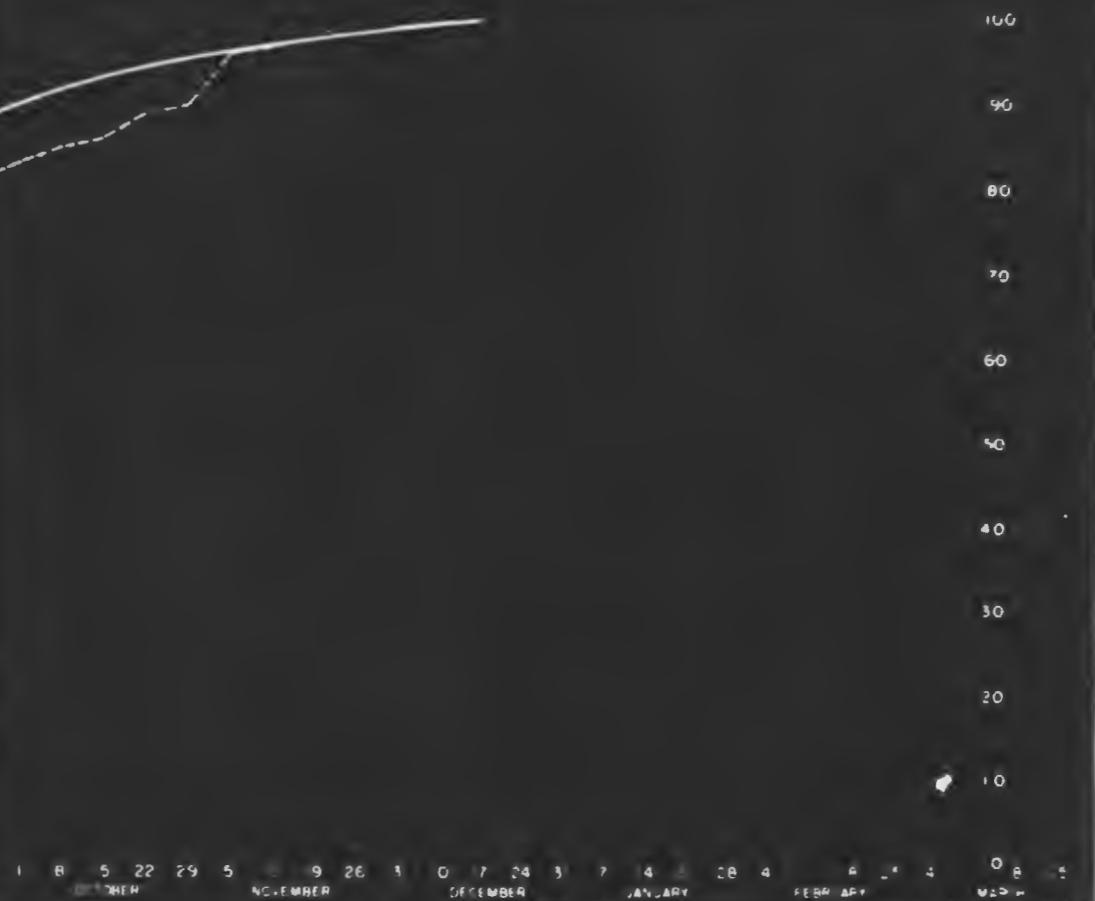


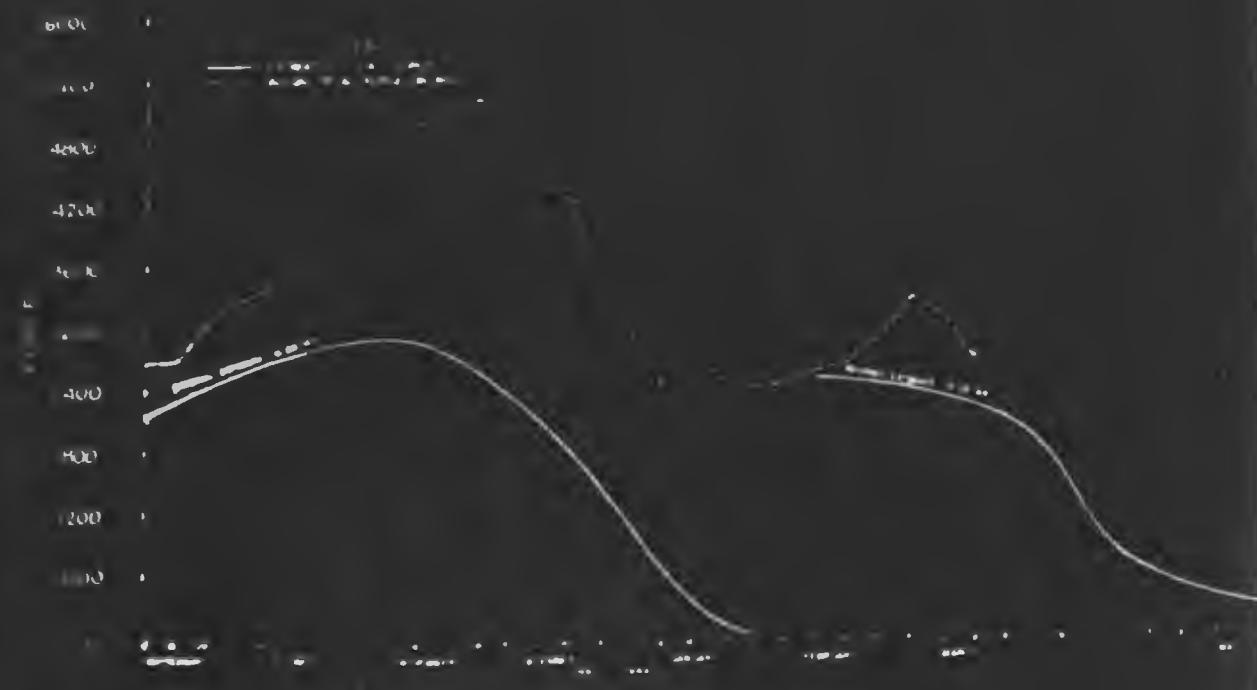
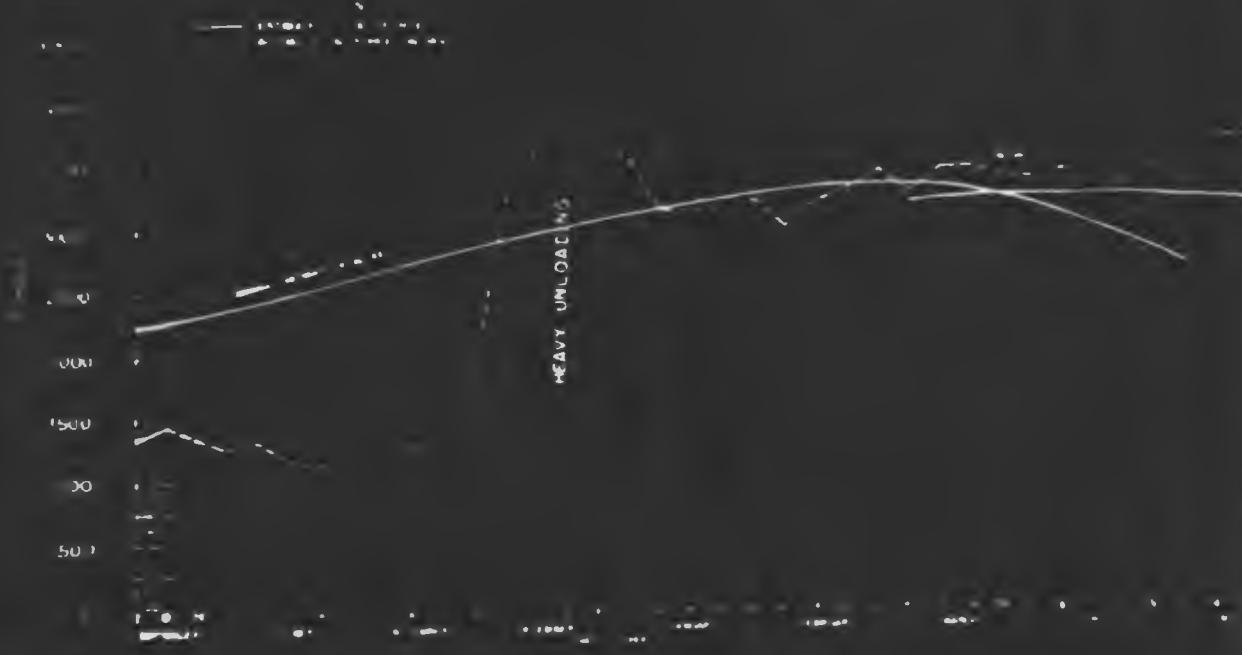
# COMPLETION FORECAST

300 AREA



SHEET NO. 4 OF 4 SHEETS

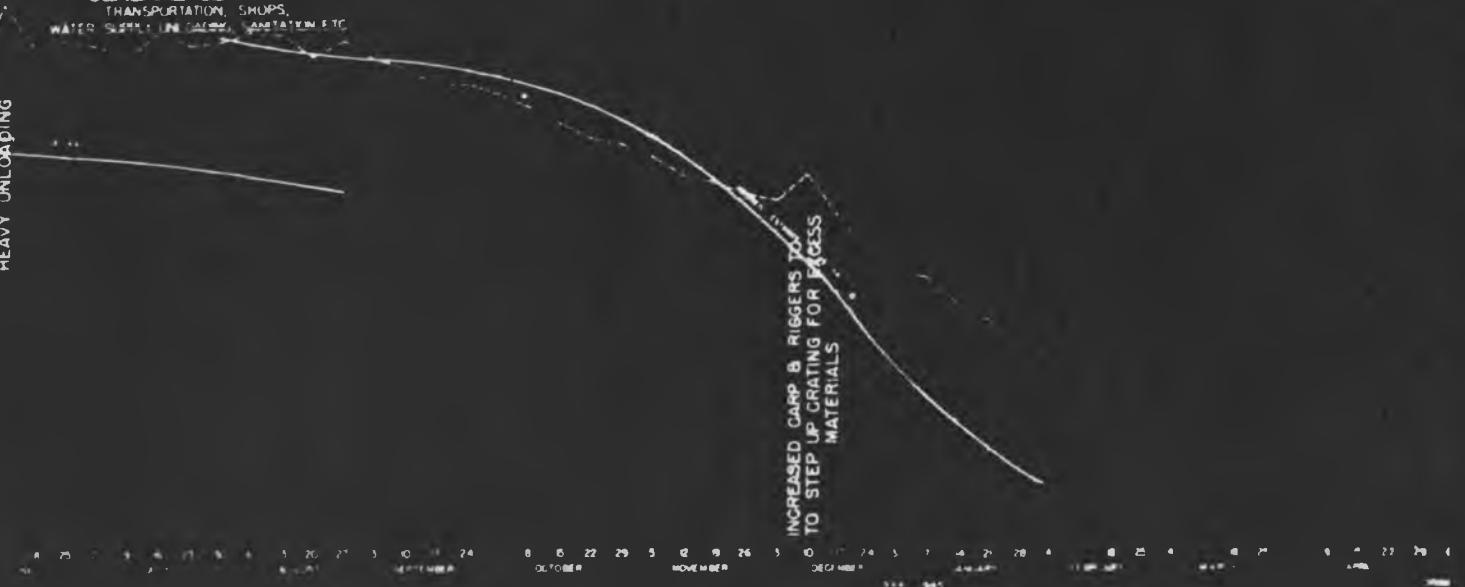




HANFORD ENGINEER WORKS  
AREA FORCE CURVES

GENERAL SERVICES  
TRANSPORTATION SHOPS,  
WATER SUPPLY, INDUS. AND LABOR ETC.

HEAVY UNLOADING



HANFORD ENGINEER WORKS  
AREA FORCE CURVES

HANFORD AREA  
(CONSTRUCTION ONLY)



WORKS  
CURVES

GES  
MPS  
INITION FPC



WORKS  
CURVES



HANFORD ENGINEER  
AREA FORCE CAMP  
100-B AREA

5000

4500

4000

3500

3000

2500

2000

1500

1000

500

0

5000

4500

4000

3500

3000

2500

2000

1500

1000

500

0

6400

5600

4800

4000

3200

2400

1600

800

LABOR PULLED FOR HANFORD CAMP

REDUCTION OF CARPENTRY WORK  
BY 50% BUILD UP IN MECHANICAL  
CRANTS - ESPECIALLY IN USE BLOCKS

HANFORD ENGINEER  
AREA FORCE CAMP  
100-D AREA

PRIORITY OF 22  
PULLED MEN TO TRY  
BUT AT

OPERATE IN PARTIAL FACES  
BEDGED

HANFORD ENGINEER  
AREA FORCE CAMP  
100-F AREA

HANFORD ENGINEER WORKS  
AREA FORCE CURVES  
100-B AREA

NIGHT FORCE WENT ON 185-190  
FOR PIPE WORK  
BUILD UP OF LABOR FORCES FOR EMERGENCY  
REPAIR OF CONCRETE PRESSURE SEWER



HANFORD ENGINEER WORKS  
AREA FORCE CURVES  
100-D AREA

PRIORITY OF 221-U IN "D" AREA -  
PULLED MEN TO TRY TO START UP 221-U  
B/T AT SAME TIME



HANFORD ENGINEER WORKS  
AREA FORCE CURVES  
100 F AREA

REDUCTION OF CARPENTRY, ETC., PULLED  
FITTERS FOR 100-D AREA



ARE

7200

6900

6600

6300

6000

5700

5400

5100

4800

4500

4200

3900

3600

3300

3000

2700

2400

2100

1800

1500

1200

900

600

300

0

FORCE



FORCE

6400 +  
7:00

CARPENTERS & LABOR PUT IN AREA FOR PURPOSE OF  
COMPLETING TO BLDGS. ESPECIALLY THE WAREHOUSES

四三

4A) ENGINEER WORK

## EFFECTIVE RCF CURVES

W AREA



MEASURED CURVE FOR W AREA  
NOT WITH PIPING  
WHERE NOT AVAILABLE  
WHEREAS

4B) ENGINEER WORK

## EFFECTIVE FORCE CURVES

W AREA



MEASURED CURVE FOR W AREA  
NOT WITH PIPING  
WHERE NOT AVAILABLE  
WHEREAS

7.70

24.0

5.00

40.0

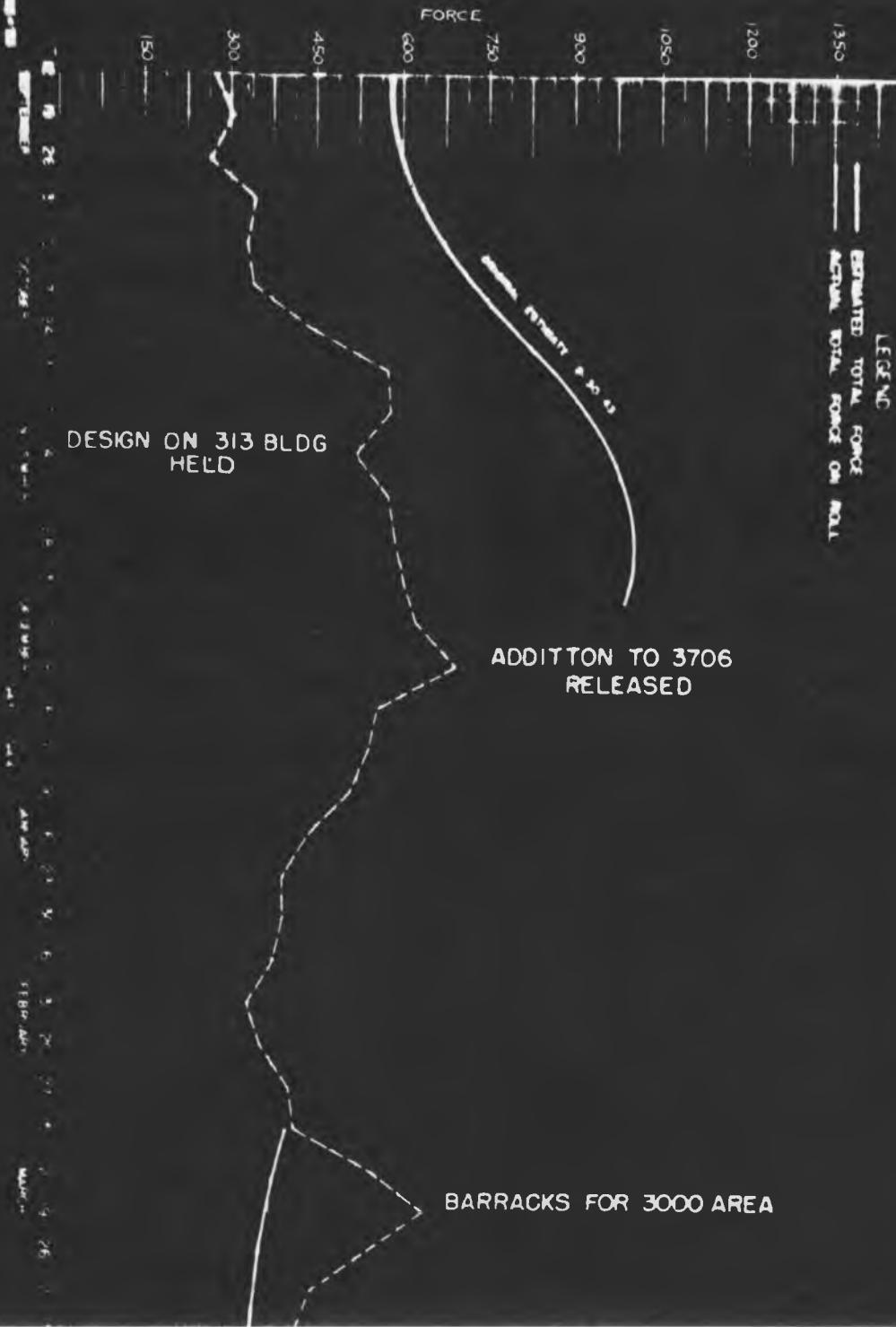
4000  
FORCE

20.0

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5.0

SHEET NO. 3 OF 4 SHEETS



HANFORD ENGINEER WORKS  
AREA FORCE CURVES  
300 AREA

NIGHT SHIFT 313 &  
CARPENTERS ON 321

NIGHT SHIFT ON 314

REVISED ESTIMATE 3 16 4

DECLINE OF CARP 321  
& SLOW DELIVERY OF  
EQUIP

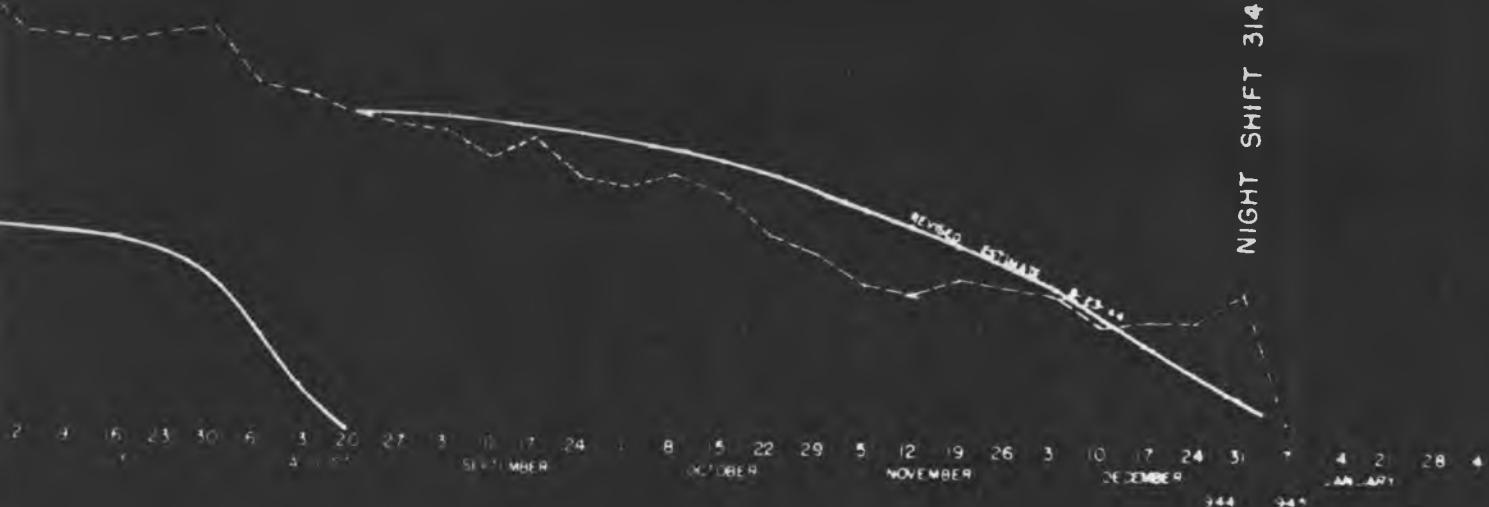
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

REVISED

NOVEMBER

HANFORD ENGINEER WORKS  
EA FORCE CURVES  
300 AREA

NIGHT SHIFT ON 314



NIGHT SHIFT 314

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RATE OF CONSTRUCTION OF HAMFORD CAMP

<u>Month Ending</u>	<u>Per Cent Complete</u>	<u>Progress During Month</u>
March 1943	00	2
April	2	9
May	11	14
June	25	8
July	33	19
August	32	6
September	60	10
October	70	11
November	81	9
December	90	22
January, 1944	88	5
February	73	7
March	88	2
April	89	6
May	91	6
June	97	1
July	98	1
August	99	0
September	99	1
October	100	1

\* Adjusted percentage based on additional work in the area.

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A Portions of sheets 10 and 18 are non-readable

REF ID: A11948 - COMMERCIAL CONTRACTS & FACILITIES  
3000 AREA CAMP

Sheet 1

ITEM	NAME OF BUILDING	NO. OF WORLDS/BLD.	SIZE	FLOOR AREA IN. FT.	VALUED CU. FT.	TYPE OF CONSTRUCTION	FACILITY INSTALL.	LOCATION
SC-42	ARMED GUARD HOUSE							
	BARRACK - 4-ROOM TYPE	5	110 x 134 x 13 (Overall)	14,880 ft	237,640	I-shaped, wood frame, gable roof structures with toilet and shower room. Tearing the cross bar. Outside gypsum board siding, roll roofing, concrete foundations and floor in shower room.	Power, lighting, heating, telephone, ventilation, phone, water, hot water, toilet and wash room facilities and shower.	West of mess hall parallel to mess hall-dishpan road.
	4 ROOM S.		30 x 142 x 13	17,680	221,360			
	BATH AND UTILITY ROOM		30 x 95 x 13	2,440	34,360			
	4' BATH S.		3 x 10 x 9	260	1,800			
	BARRACK - 5-ROOM TYPE	3	113 x 147 x 13 (Overall)	16,110	129,610	same as above except		
	4 ROOM S.		30 x 147 x 13	18,820	114,640			
	BATH ROOM		24 x 30 x 13	720	9,360			
	LAVATORY ROOM		13 x 30 x 13	390	3,600			
	UTILITY ROOM		10 x 23 x 9	230	1,890			
	2 BATH S.		3 x 10 x 9	200	900			
	LINEN WARDROBE	3	16 x 40	1,280	11,760	Facility interests	Lighting, Heating	South of mess hall.
	STORAGE WARDROBE	3	16 x 40	480	3,760	Same	None	
SC-43	WARE-HOUSE	1	300 x 210 x 13.5 (Overall)	31,500	403,480	wood frame, shed and gable roof, post and girder construction, gypsum board siding, roll roofing, concrete foundations and flooring in kitchen and warehouse. The remainder is I shaped with a parapet attached to that end of the kitchen and office portion.	Power, lighting, ventilation, heating, phone, water, hot water, refrigerator, shower, toilet and wash room, telephone.	Between Type 4 and 5 flag houses.
	OFFICERS AND OFFICES	1	60 x 148 x 13	3,920	113,480			
	DRIVING ROOM	1	50 x 130 x 13	12,500	159,120			
	BATH ROOM	2	10.5 x 32 x 13	1,320	17,100			
	FORCES	1	10 x 11 x 10	110	1,110			
	DISMISSED ROOM	1	16 x 22 x 13	352	3,472			
	CLOSET ALLEY	1	12 x 18 x 10	192	1,920			
	TRANSPORTS	10	8 x 8.5 x 9	680	6,120			
	ICE HOUSE	1	8 x 10 x 9	720	720			
	S.F. PLATFORM	1	30 x 130 x 13	7,200	111,480			
SC-43	GARAGE	1	12 x 67 x 14	2,244	30,016	wood frame, shed roof building, post and girder construction, gypsum board siding, roll roofing, concrete foundations and floor.	Power, shower base, lighting, power air, water, and shower. Concrete grease pit and oil pressure.	Surrounded by mess hall.
SC-5	ROADS	1,000'	20' wide	—	—			
	RD. LOW	1	100' x 600	600,000	—	8" thick water bound gravel.	None	Low side.
TC-7	SELL HOUSE	1	8 x 8 x 9	192	1,728	wood frame shed roof building.	None	None and at camp.
	TRANSMITTER HOUSE	1	8 x 8 x 9	144	176	wood frame shed roof building.	Power, lighting, 1 Geyser well pump.	Approximately 2000' East of Camp area.
	DISTILLED WATER SURFACE TANK	1	50,000 Gal.	—	—	wood stove	Lighting, electrical heating, calorimeter equipment.	End of storage tank.
	WATER LINES	1000'	4" & 3" & 2" & 1" &	—	—	wood and screened sections w/ steel pipe buried approximately 4 ft.	Power.	Approximately 2000' East of Camp area.
TC-8	SEALTS AT LINES	10,000'	4/0 wire	—	—			
	TRANSFORMER BANK	1	10 x 30	300	—	3-circ lines carried on existing 40 KV pole line.	None	Service from Hickman.
	SOLO ( ALL OTHER INDIVIDUAL FIELD EQUIPMENT )					10KV crossing enclosed in 40 KV wood poles.	3 - 100 KV Transformer P ( 100 ) and 120 L 3 - 75 KV Transformer P ( 75 ), 120/110 L	At Hickman.

KC - COMMERCIAL CONTRACTS & FACILITIES  
3000 AREA CAMP

Sheet 2

CODE	NAME OF BUILDING	NO. OF BUILDINGS	SIZE	FLOOR AREA SQ. FT.	VOLUME CU. FT.	TYPES OF CONSTRUCTION	FACILITIES INSTALLED	LOCATION
TC-9	PERCH	600'	12' High			Type #1	None	Surrounding 3-Bay Type Barrack.
TC-11	SEWER LINES	1600'	12' S					Area wide.
		800'	10' S					
		450'	8' S					
		300'	6' S					
	SETTLING POOL	1	25' x 60' x 4'	1,500	6,000	Earth Dyke.	None	South of Camp Area.
	SEPTIC TANKS	1	20' x 60' x 8'	1,200	9,600	Type #7	None	Same
	GREASE TRAP	1	4 x 6 x 4	24	96	Wood Box Underground	None	At messhall.
TC-15	STEAM LINES	1200'	4' S					Area wide.
		300'	3' S					
		300'	2' S					
		150'	1 1/2' S					
	BOILER HOUSE	1	24' x 40' x 14	1,104	15,456	Wood frame, shed roof building, post and girder construction.	Water, lighting. 2 - 100 K.L. Boiler, Pump and water Storage Tank.	Northwest of messhall.

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## BUILDING LIST - TEMPORARY CONSTRUCTION

CODE	NAME OF BUILDING	NO. OF BUILDINGS	SIZE	FLOOR AREA SQ. FT.	VOLUME CU.FT.	CENTRAL SHIPS AREA		FACILITIES INSTALLED	LOCATION
							TYPE OF CONSTRUCTION		
TC 29	FIRST AID BUILDING	1	25 x 48 x 10 x 4 x 8 x 8	1107	11006	Wood Frame Cable Roof Building with Lean-To Attached to South Side	Lighting, Water, Steam Heat, Toilet and Washroom Facilities, Telephone		4th Street
	SERVICE DIVISION ENGINEER'S OFFICE	1	24 x 96 x 11 & 8 x 18 x 9	2448	26630	Wood Frame Cable Roof Building with Toilet Room Lean-to Attached East Side	Lighting, Telephone, Steam Heating, Water, Toilet and Washroom Facilities		On "A" Ave. E. of 2nd St.
	LAYOUT DIVISION ENGINEER'S OFFICE	1	24 x 125 x 11 & 10 x 24 x 8	3240	34920	Wood Frame Cable Roof Building with Lean To Brick Vault & Wood Frame Toilet Room Base Attached to East Side			Same
	GOVT DIVISION ENGINEER'S OFFICE	1	24 x 92 x 11	2208	25208	Wood Frame Cable Roof Building	Lighting, Telephone, Steam Heating, Water Toilet and Washroom Facilities		On "A" Ave. E. of 2nd St.
	CONCRETE LABORATORY	1	24 x 76 x 11 & 12 x 56 x 10	2486	26784	Wood Frame Cable Roof Building with Concrete Floor & Apron on S. & E. Sides and Lean-to on East Side Only	Lighting, Power, Telephone, Steam Heating, Water, Toilet and Washroom Facilities		2nd and "A" Avenue
	PAINT SHLF (SIGNS)	5	22 x 48	5280	45600	Butler Mission Type Sheet Metal Huts	Lighting, Heating, Telephone		2nd Street
	CRAFT SUPERINTENDENT'S OFFICE	1	(1st Flng 30 x 19 x 11 2nd Flng 30 x 110 x 11 3rd Flng 30 x 12 x 10 Penthouse Adds. 30 x 22 x 10)	10320	121200	Wood Frame L-Shaped Cable Roof Bldg. with 2-Story Penthouse on S. End of 2nd Flng & with Lean-To Attached to S. Side of 1st Flng & S. Side of 2nd.	Lighting, Power, Ventilation, Air Cooling, Steam Heating, Water, Telephone, Toilet and Washroom Facilities		2nd & "A" Avenue
	SALVAGE PLATFORM	1	40 x 100	4000	—	Wood Frame & Decked 4' High	None		3rd & "B" Avenue
	HEAVY EQUIPMENT PARTS WAREHOUSE	2	80 x 180 x 12 80 x 60 x 12	14400 4800	172800 57600	Wood Frame Shed Roof Buildings, Post & Girder Construction	Lighting, Water		Same
	BIGGERS' LEFT	1	24 x 156 x 10 & 24 x 60 x 10	5184	51840	Wood Frame Cable Roof Building L-Shaped with 4 x 50 x 4 Dock on Jogg. Side.	Lighting, Telephone, water, Steam heating, Toilet & Washroom Facilities		4th & "A" Avenue
	FIRE STATION	1	48 x 128 x 14 & 8 x 12 x 16	6144	67542	Wood Frame Cable & Shed Roof Bldg. with Lean-To along S. Side & does Tower 80' High, Concrete Floor & Apron	Lighting, Power, Steam Heating, Telephone, Water, Toilet & Washroom Facilities, Cooking and Barrack Facilities		1st & "A" Avenue
	HEAT METAL & MACHINE SHOP	1	78 x 245 x 15	19910	298650	Wood Frame Post & Girder & Truss Construction Bldg. with Concrete Floor & Lean-To Attached to E. & W. Sides	Lighting, Power, water, Steam Heating, Telephone, Air, Toilet & Washroom Facilities, Monorail System		4th Street
	HUMICROTS PARTS STORAGE BUILDINGS	3	22 x 48	3168	27360	Butler Mission Type Sheet Metal Huts	Lighting, Heating, Telephone		4th Street
	DISMANTLES REPAIR SHLF	1	(40 x 92 Overall 40 x 52 x 12 30 x 48 x 20 20 x 32 x 15)	3680	53760	Wood Frame Shed Roof Bldg. Post & Girder Lighting, Power, Telephone, Steam Heating Const. with Comp. floor-Penthouse on N. End Ing, Monorail and Rail Systems			Same
	DISMANTLES' OFFICE	1	24 x 112 x 11	2688	25908	Wood Frame Cable Roof Building	Lighting, Telephone, Steam Heating, Water, Toilet and Washroom Facilities		On "A" Ave. S. of Fire St
600	IRON LABOR SUIT. OFFICE	1	22 x 48	2056	2056	Butler Mission Type Sheet Metal Hut	Lighting, Heating, Telephone		1st and "A" Ave.
	LABORATORY HEAT TREATMENT	1	22 x 48	2056	2056	Butler Mission Type Sheet Metal Hut	Same		Same
	TRANSMISSIONS HEAT TREATMENT	1	20 x 32 x 11	640	7040	Wood Frame Cable Roof Building	Lighting, Telephone, Steam Heat, water		South of Battig Office
	TRANSMISSIONS HEAT TREATMENT	1	50 x 107 (Overall 60 x 112 x 16 22 x 50 x 20 27 x 50 x 10)	10350	191000	Wood Frame Shed & Cable Roof Bldg. Post & Girder Const. with Comp. floor, 2 Penthouses 30' High & a Lean-to on N. Side	Lighting, Power, Water, Steam Heating, Air, Water, Toilet & Washroom Facilities, Telephone		5th & "A" Avenue
	VALVE TESTING OFFICE	1	18 x 30 x 10	360	3600	Wood Frame Cable Roof Building	Lighting, Telephone, Steam Heating		2nd St. S. of "A" Ave.
	VALVE TEST SITE	1	18 x 40 x 10	360	3600	Wood Frame Cable Roof Building	Lighting, water, air, Steam Heating		2nd St. S. of "A" Ave.

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BUILDING LIST - TEMPORARY CONSTRUCTION

Sheet 2

CODE	NAME OF BUILDING	NO. OF BUILDINGS	SIZE	FLOOR AREA SQ. FT.	VOLUME CU. FT.	CENTRAL SHIPS AREA		FACILITIES DETAILED	LOCATION
							TYPE OF CONSTRUCTION		
TC 29	IRON CUTTING SHOP	1	20 x 60 x 14 x 16 x 24 x10	1584	20640	Wood Frame Cable Roof Building with Lean-To attached to S.E. Corner			
	MILLER/PLATE SHOP (TRAINING)	1	20 x 50 x 10	1000	10000	Wood Frame Cable Roof Building		Lighting, Power, Heating	4th Street
	GALVANIZED SHOP (SCHOOL)	1	20 x 70 x 11	1400	14400	Sage		Lighting, Heating	Same
	BATTERY & RADIATOR SHOP	1	40 x 100 x 12	4000	48000	Wood Frame Shed Roof Building, Post and Girders Construction		Lighting, Power, Heating, Ventilation, Telephone, Steam Heat, Water, Air, Telephone	3rd St. & "B" Avenue
	STORAGE MUNITIONS, REGERS'	2	22 x 48	2112	18240	Butler Mission Type Sheet Metal Sage		Lighting	4th Street
	TRANSPORTATION SAFETY OFFICE	1	22 x 48	1056	9120	Sage		Same	4th Street
	GAS STATION	1	6 x 6 x 8 Attendant's Off.	---	---	2 - Electric Pumps 2 - Underground Station Tanks 1 - 3000 Gal. 1 - 2000 Gal.		Lighting, Power, Water, Air	4th St. & "A" Avenue
	TIRE STORAGE & REPAIR SHOP	1	75 x 130 x 14	8250	113500	Wood Frame Shed Roof Bldg. Post & Girders Const. with Brick Firewall Dividing Garage Part from Repair Shop Having 10' Loading Dock on North Side of Building		Lighting, Power, Steam Heat, Air, Water, Telephone	3rd St. S. of "C" Ave.
	ICE HOUSE	1	40 x 40 x 11	1600	17600	Wood Frame Cable Roof Building 10' Deck 4' High on S. & E. Sides		Lighting, Water	Water Sanitation Lot
	AUTOMOTIVE & HEAVY EQUIPMENT								
	WELDING SHOPS	2	22 x 48	2112	18240	Butler Mission Type Sheet Metal Sage		Lighting, Heating, Power	E. of Crane Repair Bldg.
	EARTHWORKS OFFICE & STORAGE BLDG.	2	22 x 48	2112	18240	Butler Mission Type Sheet Metal Sage		Lighting, Heating, Telephone	2nd & "A" Avenue
	RAYKEN OFFICE	1	16 x 48 x 9	768	4912	Wood Frame Pipe-Bldg., Cable Roof		Lighting, Telephone, Water, Steam Heating	On "A" Ave. Between 1st & 2nd
	MECHANICAL OFFICE	1	16 x 48 x 10	768	7680	Wood Frame Cable Roof Pre-Fab. Building		Lighting, Steam Heating, Telephone	2nd Street
	COST OFFICE	1	27 x 35 x 10	768	7680	Wood Frame Cable Roof Building		Same	
	ELECTRICAL REPAIR SHOP	2	20 x 32 x 11	2967	32439	Wood Frame Cable & Shed Roof Buildings with Lean-To on E. & W. Sides of Main Bldg.		Lighting, Heating, Telephone, Power	2nd Street
	AUTO INSPECTION BUILDING	1	48 x 176 x 14	8448	114272	Wood Frame Shed Roof Building, Post & Girders Const., Concrete Floor & Pits		Lighting, Power, Water, Air Heat Ventilators	3rd & "B" Avenue
	CHASSIS JACK (PLATEFORM)	1	40 x 40	1600	---	Wood Platform 4' High		None	4th Storage Yard
	CHASSIS & WHEEL RACKS	1	40 x 26 x 14	3440	48160	Wood Frame Cable Roof Bldg., Post and Girders Const. with Cones, Paper Pits		Lighting, Power, Water, Air, Telephone, Steam Heating	3rd & "B" Avenue
	AUTOMOTIVE REPAIR SHOPS (AUTO)	1 Bldg.	30 x 326 x 14	9780	136920	Wood Frame Shed roof Building with Post & Girders Const. with Concrete Floor		Lighting, Power, Telephone, Steam Heating, Water, Air	Between 3rd & 4th Streets & "C" Avenue
	AUTOMOTIVE REPAIR SHOPS (TRUCK)		36 x 180 x 14	6440	95760	Wood Frame Shed roof Building, Post & Girders Construction with Concrete Floor		Lighting, Power, Telephone, Steam Heating, Water, Air	3rd Street "A"
	TRANSPORTATION TOILET		10 x 25 x 8	250	2000	Wood Frame Shed roof Building		Lighting, water, Toilet & Washroom Fac.	
	SMALL PARTS REPAIR (CAR, DIST.)		16 x 40 x 12	720	6860	Wood Frame Shed roof Building		Lighting, Power, Steam Heating	Attached to Outside Corner of Automotive Repair Bldg.
	STOCK ROOM & OFFICE		80 x 80 x 15 8 32 x 110 x 10 & 12 x22 sq	10184	133312	Brick Doll Building with Wood Frame Shed Roof - Garthouse		Lighting, Steam Heat, Ventilation, Water, Telephone, Toilet & washroom Fac.	3rd & "A" Avenue

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BUILDING LIST - TEMPORARY CONSTRUCTION

Sheet 3

CODE	NAME OF BUILDING	NO. OF BUILDINGS	SIZE	FLOOR AREA SQ.FT.	VOLUME CU.FT.	TYPE OF CONSTRUCTION	CENTRAL SHOPS AREA		LOCATION
TC 29	MECHANICAL EQUIPMENT REPAIR	Comm'd	40 x 420 x 14	16800	335200	Wood Frame Shind Roof Building, Post and Girder Construction with Concrete Floor	Lighting, Air, Water, Power, Steam Heating		W.Bnd "A" Avenue Wing
	TOOL RACK	1	20 x 40 x 12	800	9600	Wood Frame Shed Roof Building, Concrete Floor	Lighting, Steam Heating, Telephone		Attached to S. Side of Heavy Equip. Repair Wing
	TRANSMISSION MIX REPAIR SHOP	1	42 x 120 x 15	5040	75600	Wood Frame Shed Roof Bldg., Post & Girder Coat. with Concr. Floor, Open one side	Lighting, Power, Water, Air.		On "A" Ave. E. of 4th St.
	TRANSMISSION MIX MEASUR RACK	1	20 x 42	840	—	Wood Frame with Ramp 5' High, Not Covered	Lighting, Air		Same
	CLOCK ALLEY - CENTRAL SHOPS	1	30 x 54 x 12	1620	19440	Wood Frame Cable Roof Bldg. Part Open	Lighting, Telephone, Heating		Water Sanitation Lot
	WATER DISTRIBUTION OFFICE	1	30 x 60 x 10	1200	12000	Wood Frame Cable Roof Building	Lighting, Heating, Telephone		Same
	BARREL RACK PLATFORM	1	130 x 150	22500	—	Wood Platform on Sleepers	Lighting, Water		3rd St. S. of "B" Avenue
	TRANSPORTATION AREA OFFICE	1	12 x 20 x 8	240	1920	Wood Frame Shed Roof Bldg. on Skids	Lighting, Telephone, Heating		On R.R. East of 1st St.
	RAILROAD TONNE MUSSES	2	12 x 14 x 8	336	2496	Wood Frame Cable Roof Building	None		
	FUEL STORAGE YARD & TANKS	2	1 - 180 x 190 1 - 190 x 220	76000	—	Reserve Area with Tanks Surrounded By Earth Dunes Incl. Truck Unloading Spots	Lighting, Power, Water, Transfer Pumps P-25,000 Gal. Tanks; 2-12000 Gal. Tanks		Same
	J.I.T. BUILDING	1	22 x 48	1056	9120	Butler Missing Type Sheet Metal Hat	Lighting, Heating		Alt Street
	TRAN. MISC. STORAG & REPAIR HUTS	5	22 x 48	5280	46400	Same	Same		B Ave. S. of 4th Street
TC 5	BLADS								
		6500' - 60' wide Gravel road			—	Water Bound Gravel 12" Thick	None		Area Side
		7500' - 20' wide Gravel road			—	None	None		Same
		6000' - 6' wide Gravel walk			—	Water Bound Gravel 6" Thick	None		Same
					—	Water Bound 12" Thick	Lighting		PA Avenue
					—	Water Bound 12" Thick	Lighting and Stops		Same
					—	Fenced and Stabilized	Water and Lighting		North of "A" Avenue
					—	None	Lighting and Stacks		N. of Hillright Shop
					185185 Sq.Ft.	Stabilized 12" Thick	None		Area Side
TC 7	ELIMINATED ST. BLDG TANK	1	100000 Gal.	—	—	Wood Stave Tank on Wood Frame Approx. 40' above Ground	Water, Steam, Lighting		Alt Ave. S. of "B" Boiler
					—	Wood Slip Joint, Welded Steel and Screwed Pipe buried Ap.rox. 4' deep	Hydrants		Area Side
					—				
TC 8	TRANSPORTATION WASH	1	10' x 40	200	—	Open Framing Enclosed by Wood Fence	3-75 KVA Trans. 1 600/440/220 S		Alt Transp. Garage building
		1	20' x 40	200	—	Same	3-75 KVA 1 600/440/220 S		Alt Crane Repair side.

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BUILDING LIST - TEMPORARY CONSTRUCTION

CENTRAL SHIPS AREA

Sheet 4

CODE	NAME OF BUILDING	NO. OF BUILDINGS	SIZES	FLOOR AREA SQ. FT.	VOLUME CU. FT.	TYPICAL OF CONSTRUCTION	PIERCING FILES INSTALLED	LOCATIONS
TC 8	TRANSFORMER BANK	1	10 x 20	200	—	Open Framing Enclosed by Wood Fence	2-250 KVA Trans. P 6900/440/220 S 2-75 KVA Trans. P 6900/220/110 S	At Millwright Shop
	ELECTRICAL LINES							
TC 9	PIECES		4420' - 10' Hgt. 2320' - 5' Hgt.	—	—	A" x 4" x 12' Wood Post & Seven Wire Strands with 5 strands of Barb Wire Base	None	Area Side Base
TC 10	TOOL SHEDS	60	APPROX. 4 x 7 x 4	1680	6720	—	—	Area Side
	TOOLSHEDS	30	8 x 10 x 6	1600	12800	—	None	None
		3	6 x 6 x 6	180	3440	—	None	None
	SHACKS	3	6 x 6 x 6	108	864	—	—	None
		1	6 x 6 x 6	64	512	—	—	None
		30	8 x 10 x 6	1600	12800	—	—	None
		1	6 x 14 x 6	84	672	—	—	None
		2	10 x 12 x 6	240	1920	—	—	None
		2	12 x 14 x 6	336	2688	—	—	None
TC 11	CHECK BOOTH	8	4 x 6 x 7	192	1344	—	—	None
	LAYOUT LOCKERS	12	1 x 2 x 7	24	168	—	—	—
	IRON PLATES	2	30 x 30	1800	—	—	—	None
TC 12	SEPTIC TANKS	1	30 x 60	—	—	Wood Box Underground	Chlorinator House	East of 1st Street
	SETTLING BARRELS	3	30 x 60	—	—	Earth Dyke Construction	None	None
	BARRELS	4000 (APPROX) 8' # VIT. Clay Ball & Spigot	—	—	—	—	—	Area side
		2400 (APPROX) 4' # VIT. Clay Ball & Spigot	—	—	—	—	—	None
TC 13	STEAM LINES	2130	~ 4"	—	—	Insulated Welded & Screwed Steel Pipe 30k.40	Suspended on Overhead Pipe Supports	Area Side
		1200	~ 3"	—	—	—	None	None
		400	~ 2"	—	—	—	None	None
		900	~ 1 1/2"	—	—	—	None	None
TC 14	BOILER HOUSE (A)	1	26 x 32 x 15	832	14480	Wood Frame Sheet Roof Bldg. Post and Girder Construction	Lighting, Water, Steam, 2-75 HP Boiler, Pump, and Wood Tank	S.E. of Craft Dept. Office
	BOILER HOUSE (B)	1	24 x 32 x 16	768	12288	Wood Frame Sheet Roof Building, Post & Girder Construction	Lighting, Water, Steam, 1-50 HP Boiler, Pump & Wood Tank	S. E. of Trans. Garage

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BUILDING LIST - TEMPORARY CONSTRUCTIONS

CENTRAL SHOPS AREA

Sheet 5

CODE	NAME OF BUILDING	NO. OF BUILDINGS	SIZES	FLOOR AREA S. FT.	VOLUME CU. FT.	TYPE OF CONSTRUCTION	FACILITIES PROVIDED	LOCATION
TC 15	BULLER HOUSE (C)	1	22 x 26 x 14	576	8008	" Wood Frame Shed Roof Building, Post and Girder Construction	Lighting, Water, Steam, 1-72 # Boiler Pump, Wood Tank	S.E. of Engineers' Office
	BULLER HOUSE (D)	1	22 x 26 x 12	632	11628	Wood Frame Shed Roof Building, Post & Girder Construction	Lighting, Water, Steam, 1-72 # Boiler Pump, & Wood Tank	4th Street
	BULLER HOUSE (E)	1	10 x 14 x 12	140	1680	Wood Frame Shed Roof Building	Lighting, Water, Steam, 1-30 # Boiler	Water Sanitation Lot
TC 16	TELEPHONES	26	Blldgs. Served	---	---	Cable, Open Ironwire & Twisted Pair	84 Phones & Approx. 20 Extensions through 1 -Two Position manually oper. switchboard	Area Line

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## BUILDING LIST - TEMPORARY CONSTRUCTION

100-B AREA

Sheet 1

LINE	BUILDING NAME	No. OF BLDGS.	SIZE	FLOOR AREA S.F. FT.	VOLUME CU. FT.	TYPES OF CONSTRUCTION	FACILITIES INSTALLED	LOCATION
10-30	<u>GENERAL INFORMATION</u>							
	DIVISION MANAGER'S OFFICE	1	35 x 128 x 10 & 8 x 9 x 8	4515	45150	Wood Frame, Cable Roof Bldg. with Lean-To S. & E. Sides	Telephone, Lighting, Water, Heating, Toilet and Wash Room	"G" St. & 2nd Street
	LABOR & INSPECTOR OFFICE	1	24 x 40 x 10	960	9600	Wood Frame, Cable Roof Bldg. wood frame	Telephone, Lighting, Heating	"G" St. & 2nd Street
	FILE CABIN	1	20 x 76 x 16	5320	85120	Truss Roofed Building	Telephone, Lighting, Power, Heating, water	and St. S. of "G" St.
	U.S. ENGINEER'S OFFICE	1	30 x 26 x 10 & 8 x 9 x 8	792	7776	Wood Frame, Cable Roof Bldg. with Lean-To Toilet Room Attached	Telephone, Lighting, Heating, water, toilet & wash Room	"G" St. & 2nd Street
	ARMED GUARD OFFICE	1	12 x 26 x 9	240	2160	Wood Frame, Cable Roof Building	Lighting, Telephone	"G" St. & 2nd Street
	AYOUT OFFICE	1	22 x 48	1056	9120	Butler Sheet Metal Hut	Telephone, lighting, Heating	"G" St. & 2nd Street
	PAINT OFFICE	1	22 x 48	1056	9120	Butler Sheet Metal Hut	Telephone, lighting, Heating	"G" St. & 2nd Street
	COST & SAFETY OFFICE	1	22 x 48	1056	9120	Butler Sheet Metal Hut	Telephone, lighting, Heating	"G" St. & 2nd Street
	ENTRANCES OFFICE	1	22 x 48	1056	9120	Butler Sheet Metal Hut	Telephone, lighting, Heating	"G" St. & 2nd Street
	WILLIAMS' SHOP	1	80 x 144 x 12 & 20 x 36 x 11	14180	145720	Wood Frame, Shad Roof Bldg. with Concrete Floor, Post & Girder Constrn.	Telephone, Power, Lighting, Heating, Water, Wash, Toilet & Washroom Facil.	"H" St. & 2nd Street
	MS FIRE WAREHOUSE & TOOL ROOM	1	64 x 175 x 14	11400	134400	Wood Frame Shad Roof, Post & Girder Const.	Telephone, Lighting, Heating	"G" St. N. of Mfr. Shop
	FILE WAREHOUSE DOCK	1	10 x 160	1600	---	Wood Frame Platform 4' High	None	East Side of Warehouse
	ELECTRICAL OFFICE & SHOP	1	40 x 95 x 10	3800	38000	Wood Frame Shad Roof Bldg. Post & Girder Construction	Telephone, Lighting, Water, Heating	"G" St. Between 2nd & 3rd.
	ELECTRICAL STORAGE SHED	1	50 x 75 x 10	3750	37500	Same except has open end and no floor	Lighting	"G" St. Between 2nd & 3rd.
	MS WAREHOUSE	1	80 x 208 x 14	16640	432960	Wood Frame Shad Roof Building, Post & Girder Construction	Lighting, Telephone, Heating, Water	"H" St. Between 2nd & 3rd.
	MS WAREHOUSE DOCKS	3	(8 x 50 x 6 (10 x 144 x 4 (14 x 112 x 4	400 1440 1568	---	{ Wood Platform	{ None	
	TRANSPORTABLE	1	40 x 90 x 16	3600	57600	Wood Frame, Cable Roof Building with Concrete Floor	Telephone, Lighting, Heating, Air, Water	"H" St. & 5th Street
	TRANSPORTATION WELDING SHOP	1	20 x 30 x 14	600	8100	Wood Frame Cable Roof Bldg. - Ends Open	Lighting	"H" St. & 5th Street
	TIRE REPAIR STORAGE BUILDING	1	17 x 40 x 9	340	3040	Wood Frame Cable Roof - Open Shed	None	"H" St. & 5th Street
	GREASE STORAGE PLATFORM	1	16 x 16 x 4	256	---	Wood Platform on Skids	None	"H" St. & 5th Street
	CILERS' & DISPATCHERS' BUILDING	1	16 x 18 x 9	288	2592	Wood Frame Cable Roof Bldg. on Skids	Lighting	"H" St. & 5th Street
	TIRE REPAIR PLATFORM	1	40 x 40	1600	---	Wood Platform Level with Ground No Structure - Only Concrete Island holds the Electric pump	None	"H" St. & 5th Street
	G-3 STATION	1	6 x 30	120	---	Wood Frame, Cable Roof Building	Lighting, Water, Air	"H" St. & 5th Street
	BIGGERS' OFFICE & LOFT	1	26 x 60 x 10	1440	14400	Wood Frame Cable Roof Building	Lighting, Telephone, Heating	On 5th St. N. of "H" St.
	RIDGES' DOCK	1	8 x 50 x 4	400	---	Wood Platform	None	On N. & E. Side Rigger Loft
	CRANE OFFICE & LOFT	1	25 x 50 x 9	750	6750	Wood Frame Shad Roof Building	Lighting, Heating, Telephone	On N. & E. Side Rigger Loft
	CARPENTER SHOP	1	40 x 110 x 12	4400	52800	Wood Frame Cable Roof Bldg. (Part Open)	Power, Lighting, Telephone, Heating	Lumber Fabricating Yard
	SAW SHELTERS	2	12 x 36 x 9	432	3688	Wood Frame Cable Roof Open Shed	Power, Lighting	Lumber Fabricating Yard
	SAW SHELTER	1	32 x 45 x 10	1440	14400	Wood Frame Cable Roof Open Shed	Power, Lighting	Lumber Fabricating Yard
	REINFORCING STEEL SHED	1	40 x 85 x 14	3400	47600	Wood Frame Truss Support Roof Bldg. Power, Lighting	Z. of 105-B Building	
	REINFORCING STEEL OFFICE	1	20 x 24 x 10	480	4800	Wood Frame Cable Roof Building	Lighting, Heating, Telephone	Z. of 105-B Building
	CONCRETE, LABOR & STORES SHED	1	16 x 36 x 12	576	6912	Wood Frame Cable Roof Building	Lighting, Heating	"G" St. S. of Coal Storage
	WAREHOUSE FOR 104 BUILDING	1	40 x 80 x 14	3200	48000	Wood Frame Shad Roof, Post & Girder Const.	Lighting, Heating	"G" St. E. of Coal Storage
	BIGGERS' LOFT	1	26 x 60 x 10	1440	14400	Wood Frame Cable Roof Building	Lighting, Heating, Telephone	"H" St. & 3rd Street
	BUILDING SHED FOR 104 BUILDING	1	1' x 18 x 10	216	2160	Wood Frame Shad Roof Building	Lighting, Heating, water	"G" St. E. of Coal Storage
	GLC OFFICE & SHOP FOR 104 BLDG.	1	18 x 36 x 12	648	7776	Wood Frame Shad Roof Bldg. (Part Open)	Lighting, Heating	"G" St. Z. of Coal Storage

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## BUILDING LIST - TEC GARRY CONSTRUCTION

Sheet 3

CODE	BUILDING NAME	NO. OF BUILDINGS	SIZE	100-B AREA			LOCATIONS
				FLOOR AREA SQ. FT.	VOLUME CU. FT.	TYPE OF CONSTRUCTION	
TC 8	TRANSFORMER BANK	1	10 x 16	—	—	Open Framing enclosed by good fence	3-75 KVA Trans. + 6900/440/220 S
	TRANSFORMER BANK	1	10 x 30	—	—	Same	(2-333 KVA Trans. + 6900/440/220 S (1-75 KVA Trans. + 6900/220/110 S)
TC 9	FENCE	15350 Ft.	—	—	—	5" x 4" x 12' Wood Post & Java Wire Fence with 5 Strands of Barb Wire on Top	Area wide
TC 10	CHECK BOOTHS TOILETS TOOL BOXES GUARD HOUSES MISCELLANEOUS SHACKS FIELD OFFICES LAY-OUT LOCKERS DISPATCHERS' SHACKS	17 62 246 9 35 53 6 2	4 x 6 x 8 10' x 8' x 8 4' x 7' x 4' 6 x 6 x 8 10' x 12' x 8 3 x 6 x 6 1 x 2 x 7 6 x 6 x 8	408 4940 8008 324 6200 — — 64	3264 39680 32032 2592 33600 — — 512	— — — — — — — —	Same Same Same Same Same Same Same Same
TC 11	SEWER & SEPTIC TANK	2	4' x 6' Septic Tanks 500 ft. 6" Vit. Clay Bell & Spigot Pipe	—	—	Good Frame Box with Tile Floor	At Div. Engr's Office
TC 15	STAIN LINES	—	3000' - 3" P. 2000' - 2" P. 3000' - 1" P.	—	—	Good Frame Sheet Roof Building	S. of Bus Parking Lot
	TRANSMISSION BUS WASHING BOILER HOUSE	1	12 x 18 x 10	144	1440	Good Frame Sheet Roof Building	S. of Bus Parking Lot
T. C. 16	BLACK HOUSE	1	14 x 16 x 12	236	3872	Same	At 101-B Building
TC 17	TELE HEADS	21	Bridges-Surged	—	—	Cables, open iron wire, & Twister hair 61 Telephones & Approx. 10 Extensions 1 Two-position Manually Operated Switch Board.	Area wide

## BUILDING - TOWER AT GROSVENOR

100-D AREA

CLUE	NAME OF BUILDING	NO. OF BLDGS	SIZE	FLOOR AREA SF. FT.	VOLUME CU. FT.	TYPE OF CONSTRUCTION	PUBLIC USE INDICATED	SEARCHED
PC 31	WILSONS BARBERS	1	24 x 96 x 10 & 6 x 20 x 8	2424	16000	Steel Frame Cable Roof Bldg. with Lean-to Wall Room Attached to E. S. Corner	Lighting, Telephone, Heating, Water & Sewer, Metal Roof Building	Post at North Street
	U.S. EXCAVATOR	1	12 x 24 x 9 & 6 x 6 x 8	324	2800	Steel Frame Cable Roof Bldg. with Wall Room Attached to N. Side	None	Post at North Street
	ELECTRICAL SHOP - BUILDING 101	1	20 x 27 x 12	540	6400	Steel Frame Cable Roof Bldg. One Side Open	Lighting, Heating	PC of Shop 101 on North Street
	SERVICE ANTHILL'S BUILDING	1	19 x 40 x 9	600	5400	Steel Frame Sheet Roof Building	Lighting, Heating, Telephone	None or S.E. Service
	TABLE AND CHAIRS	1	26 x 60 x 10	960	9600	Steel Frame Cable Roof Building	Lighting, Heating, Telephone	Post 101 Street, Service
	PAINT SHED	2	15 x 20 x 9	300	2700	Steel Frame Sheet Roof Building	Lighting, Telephone, Heating	Post 101 Street, Service
	PIPE SHED	1	20 x 75 x 16	1200	8400	Steel Frame Sheet Roof Building	Lighting, Heating, Water, Telephone, Sewer, Power, Other, Service	Post 101 Street, Service
	MILLERIGHT SHED	1	20 x 34 x 13	11520	149760	Steel Frame Sheet Roof Bldg. Post & Glass Construction, Post Central, Post & Glass Construction	Lighting, Heating, Telephone	PC Central S. A. S. Street
	TEMPORARY MS STALLS & 1 INS. WASH.	1	7 x 20 x 170 x 12	13776	160512	Steel Frame Sheet Roof Bldg. Post & Glass Construction	Lighting, Heating, Telephone	PC 101 Street, Service
	MS STORES DUCKS	2	10 x 140	1200	---	Steel Frame Platform At Right	None	None
	SMALL TOOLS & MACHINERY	1	18 x 40 x 10	720	7200	Steel Frame Cable Roof Building	Lighting and Heating	None or North Street
	LAYOUT OFFICE	1	22 x 48	1056	9120	Butler Street Metal Case	Lighting, Heating, Telephone	None or North Street
	SAFETY OFFICE	1	22 x 48	1056	9120	None	None	None
	GATE OFFICE	1	22 x 48	1056	9120	None	None	None
	W.L.T. BUILDING	1	15 x 20 x 9	300	2700	Steel Frame Sheet Roof Building on Side	None	None
	ELECTRICAL SHOP &WAREHOUSE	1	40 x 132 x 11	1280	4780	Steel Frame Sheet Roof Building. Post & Glass Construction	None, None, None	None
	RENTED BLDG. AND REPAIR BUILDING	1	14 x 42 x 10 & 20 x 20 x 8	700	9080	Steel Frame Sheet Roof Bldg. with Lean-to Room Attached to N. Side	Lighting and Heating	None
	GENERATION SHD. GENERATOR & OFFICE	1	18 x 80 x 14	1440	13760	Steel Frame Sheet Roof Bldg. Post & Glass Construction	Lighting, Heating, Telephone	None
	MS STORES WASHHOUSE	1	15 x 205 x 12	1440	159840	Steel Frame Sheet Roof Bldg. Post & Glass Construction	Lighting, Heating, Telephone	None
	MS STORES DUCKS	2	15 x 100	1200	---	None	None	None
	CAMPING SITE	1	15 x 130 x 14 & 14 x 16 x 9	1120	4320	Steel Frame Platform At Right	None	None
	SAF. SHEDS	8	10 x 20 x 9	800	6400	Steel Frame Sheet Roof Building with Lean-to Room Attached to N. Side	Lighting, Heating, Telephone	None, None
	BASH & DOOR SHED	1	10 x 100 x 14	1240	9600	Steel Frame Cable Roof Open Sheds	None, Heating	None
	REEDERS LFT	1	24 x 48 x 10	1440	1440	Steel Frame Sheet Roof Building	Lighting	None
	MOULDS JACKS	2	12 x 30	360	360	Steel Frame Platform At Right	None	None
	CRANE DR. CRANE	1	14 x 40 x 9	560	560	Steel Frame Sheet Roof Building	Lighting, Heating, Telephone	None
	BATCH PLANT & CONCRETE BUILDING	1	12 x 20 x 12 x 12	1440	11852	Steel Frame Slipped Roof Side-Open- Floor	Lighting, Heating, Telephone, Power, Heating, None, None, Heating	None or Building 101
	REINFORCING STEEL OFFICE	1	14 x 20 x 9	280	280	Steel Frame Cable Roof Building	Lighting, Heating, Heating	PC 101 Street, None or
	REINFORCING STEEL OFFICE	1	10 x 80 x 15	3200	3200	Steel Frame Cable Truss Supported Roof	Power, Lighting	None or 101 Street
	GENERATOR BUILDING	1	14 x 20 x 10	280	2800	Steel Frame Cable Roof Building	Lighting	None
	TEMPORARY TRANSPORTATION OFFICE	1	12 x 90 x 14	2400	2400	Steel Frame Cable Roof Side-Open- Floor	Lighting, Heating, Telephone, Power, Heating, None, Heating	None or Building 101, None or 101 Street
	GEN. STATION	1	3 x 20	---	---	2 One People & Underground Garage Sheds	Lighting, Water, Air	None
	THEATRE FOR R.D. AIR SHD	1	80 x 30 x 14	600	6400	Steel Frame Sheet Roof Building with Lean-to Room Attached to N. Side	None	None
	PRIVATE CAR PARKING ALLEY	1	12 x 22 x 9	144	1296	Steel Frame Cable Roof Partially Open	Lighting & Heating	None or 101 Street
	CLOTH ALLEY	1	6 x 45 x 9	270	2810	Steel Frame Sheet Roof Side-Open- Garage	Lighting & Heating	None or 101 Street
	LAYOUT OFFICE	1	12 x 20 x 9	240	240	Steel Frame Sheet Roof Building	Lighting, Heating	None or 101 Street
	ALL IN-DOOR BUILDING	1	14 x 20 x 9	280	280	Steel Frame Sheet Roof Building	Lighting, Heating	None or 101 Street

## BUILDING LIST - TEMPORARY CONSTRUCTION

Sheet 2

CDS	NAME OF BUILDING	NO. OF BLDGS.	SIZE	100-D AREA			FACILITIES INSTALLED	LOCATION
				FLOOR AREA SF. FT.	VOLUME CU. FT.	TYPE OF CONSTRUCTION		
TC 31	AUSTINING GAS RACKS	3	10 x 30 x 12	900	10400	Wood Frame Shed Roof Open Slatted Building on Skids	None	1 - N. of Mt. Shop
	FIRE STATION BARRACKS	1	25 x 70 x 10	1803	17953	Wood Frame Cable Roof Building, Outside Covered with 8" Cypress Board	Telephone, Lighting, Power, Heating, Water, Toilet and Wash Room Facilities	2 - At 100-D Building
	VALVE PLATFORMS	3	50 x 70	10500	---	Wood Decking on Sleepers	None	N. of Mt. Barracks
	WATER SANITATION LAT.	1	300 x 30	9000	---	Fenced and Stabilized Area	Water	S. of Main Substation
	LIC. HOUSE	1	20 x 40 x 10	400	6000	Wood Frame Shed Roof Building	Lighting	Water Sanitation Lat.
	BARREL PLATFMRK	1	60 x 60	3600	---	Wood Platform	Water	Same
	MORTAR MIXING PLATFORM	1	30 x 30	900	---	Wood Platform 4' High	Water	S. of Main Substation
	TIRE REPAIR PLATFORM	1	40 x 40	1600	---	Wood Platform on Sleepers	None	W. End of Garage
TC 5	Roads							
	ROADS		10000 Ft. 6" Gravel roads			Water Bound 12" Thick	None	Area Side
	ROADS		5000 Ft. 6" Gravel walks			Water Bound 6" Thick	None	Same
	US PARKING LAT.	1	1250 x 1250	156,500	---	Stabilized and Fenced	Railings & Steps, Lighting	South Gate
	SAFETY PARKING LAT.	1	450 x 550	27750	---	Same	Same	South Gate
	MINERALOGIC STORAGE LAT.		11,575,500 Sq.Ft.	429000 Cu.Yds.		Stabilized Gravel & Sand 1" Thick	None	Area Side
	ON SPURGE TOWER	1	100 x 100	10000	---	Same	None	W. of small Tower 100-D
	SMALL TOOL STORAGE TOWER	1	75 x 120	9000	---	Stabilized and Fenced	None	W. of S. of Mt. 100-D
TC 6	RAILROADS		19335 Ft. 65W - 65E Rail	---	---	Used Rail #8 Turnout & Hand-Throw Switches	None	Area Side
TC 7	WATER LINES		(1) 1525 - 8" p (1) 3025 - 4" p (1) 3000 - 3" p (1) 650 - 1.5" p	---	---	Wood Clip Joint, Galvanized Steel & Screwed Pipe Buried Approximately 4" Deep	None	Area Side
	MAINE PUMP HOUSE	1	14 x 14 x 8	196	1568	Floating Pump House	Power, Lighting	S.E. of Bldg. 100-D
	SECOND WATER STORAGE TANK	1	100,000 Gals.	---	---	Wooden Tank Set on Mud Sills	Water Lines	S.E. of Bldg. 100-D
	BOOSTER STATION	1	12 x 10 x 8	120	960	Wood Frame Shed Roof Building	Lighting, Power, Water	S. of Bldg. 100-D
TC 8	ELECTRICAL							
	MAIN STATION	1	25 x 70	5250	---	Open Framing, Enclosed w/ Wooden Fence	1-300 KVA Transformer Primary 6900: 6900 S. (-100 KVA Trans. I. 6900/440 220 S (-50 KVA " I. 6900/220 110 S (-333 KVA Trans. I. 6900/440 220 S (-14 KVA " I. 6900/220 110 S	N. of 100-D Building
	TRANSFORMER BLDG	1	30 x 30	900	---	Same	(-37.5 KVA " I. 6900/440 220 S (-50 KVA " I. 6900/220 110 S	At Booster Station
	TRANSFORMER BLDG	1	30 x 20	600	---	Same	(-333 KVA Trans. I. 6900/440 220 S (-75 KVA " I. 6900/220 110 S	At Millwright Shop
	TRANSFORMER BLDG	1	18 x 30	540	---	Same	(-37.5 KVA " I. 6900/440 220 S (-50 KVA " I. 6900/220 110 S	At 100-D Building
	TRANSFORMER BLDG	1	15 x 30	450	---	Same	(-333 KVA Trans. I. 6900/440 220 S (-75 KVA " I. 6900/220 110 S	At Power Mixing Plant
	TRANSFORMER BLDG	1	10 x 20	400	---	Same	(-250 KVA Trans. I. 6900/440 220 S (-75 KVA " I. 6900/220 110 S	At 100-D Building

## ROLLING MEAT - T-1 - UNIT OF MANUFACTURE

Sheet 3

LINE	R.M.C. (F.B.U.L.)	NO. OF BLDGS.	SIZE	FLOOR AREA SQ. FT.	VALUATION IN. FT.	TYPE OF CONSTRUCTION	FEET OF WALLS INSTALLED	100'-0" AREA
TC 8 TRANSFORMER BLD.	1	10 x 30	"	300	"	Open Platform enclosed by iron fence	(2-37.5 KVA trans. P. 6900/440/220 (1-50 KVA P. 6900/220/110)	100'-0"
TC 9 FENCES			130' x 9' - (10'-0" arms declined)	"	"	6" x 4" x 10' Post, Iron Wire with 5 strands of Barb wire on top	"	100'-0"
TC 10 CE DRIE PLATEAU	1	10 x 30 4 x 7 x 4	"	300 5600	200 5600	Hood Platfrom - 4' High	None	100'-0"
TC 11 SHELLS	370	6 x 10 x 8	"	4800	2200	"	None	100'-0"
TC 12 SHEDS	60	10 x 12 x 8	"	960	3800	"	None	100'-0"
TC 13 BATHS	24	6 x 7 x 7	"	168	5160	"	None	100'-0"
TC 14 FIELD DENS	12	4 x 5'	"	60	2016	"	None	100'-0"
TC 15 LAYOUT LOCNESS	12	1 x 2 x 7	"	24	192	"	None	100'-0"
TC 16 BASE PALK	1	12 x 30 x 5	"	360	168	"	None	100'-0"
TC 17 CISTERNS			600' Vit. Ball & Spigot Pipe	"	"	Wood Box Underground installed to tile field	None	100'-0"
TC 18 CISTERNS	2	6 x 6	"	"	"	"	None	100'-0"
TC 19 STEAM LINES	2000'	2"	"	"	"	Overhead pipe support		100'-0"
TC 20 STEAM LINES	1	12 x 16 x 10	"	"	"	Galvanized steel roof building		100'-0"
TC 21 STEAM LINES	1	10 x 16	"	"	"	Open 72" Bldg. set 30" Ground floor (wood slab) 10' 0" high 30' 0" wide (plow buried 4 ft) 4' deep.		100'-0"
TC 22 STEAM LINES	1	10 x 16	"	"	"	"		100'-0"
TC 23 BUILDINGS SERVED			"	"	"	Cable, open iron wire & twisted pair	49 telephone & approximately 10 intercoms	100'-0"

TC 19 STEAM LINES

TC 21 BUILDINGS SERVED

SHEET NO. 6

## BUILDING LIST - T-2 CHART CONSTRUCTION

Sheet 1

100'-F AREA								
CODE	NAME OF BUILDING	NO. OF BUILDINGS	SIZES	FLOOR AREA SQ. FT.	VOLUME CU. FT.	TYPES OF CONSTRUCTION	FACILITIES INSTALLED	LOCATION
10-20	DIVISION MANAGERS' OFFICE	1	40' x 100' x 11 & 8 x 6 x 9	4,128	45,152	Wood Frame, Cable Roof Bldg., Gypsum Board Siding, with Lean-To Toilet Room on S.E. corner	Lighting, Telephone, Water, Toilet & Washroom Facilities, Heating	E. of Bldg. 100-F
10-20	U. S. ENGINEERS' OFFICE	1	30' x 40' x 11 & 8 x 8 x 9	1,264	13,776	Same	Same	Same
10-20	WELDING SHOP	1	60' x 145' x 11	11,400	127,600	Wood Frame, Cable Roof Bldg., Post & Girder Constr., Concrete Floor	Lighting, Power, Water, Telephone, Ventilation	E. of Bldg. 100-F
10-20	FIRE STATION	1	65' x 145' x 12	9,425	113,100	Wood Frame, Cable Roof Bldg., Post & Girder Construction	Lighting, Telephone	E. of Bldg. 100-F
10-20	VALVE PLATFORM	2	100' x 100'	20,000	—	Wood Platforms Laid on End Jills	None	None
10-20	TRANSFORMER GARAGE	1	30' x 30' x 16' & 12' x 26'	5,172	76,720	Wood Frame, Cable Roof Bldg., Post & Girder Constr., Glass, Floor, Metal Lean-To on North side	Lighting, Power, Telephone, Water, Air-Heating	E. of Coal Storage
10-20	REFINED STEEL OFFICE	1	20' x 30' x 10	600	6,000	Wood Frame, Cable Roof Bldg., Gypsum Board Siding	Heating	E. of Bldg. 100-F
10-20	REFINED STEEL SHOP	1	40' x 105' x 14	3,400	47,600	Wood Frame Bldg., Post & Girder Constr., Tires Supported Roof, Open on 3 sides	Power	None
10-20	SHEDDED LOFT	1	15' x 60' x 10	1,500	15,000	Wood Frame, Cable Roof Bldg., Gypsum Board Siding, 6' Platform on Corers	Telephone	E. of Bldg. 100-F
10-20	CRAFTS OFFICE	1	20' x 100' x 11 & 8 x 20 x 9	3,160	34,640	Wood Frame, Cable Roof Bldg., Gypsum Board Siding with Lean-To Toilet Room on South side	Lighting, Heating, Telephone, Water, Toilet & Washroom Facilities	E. of Bldg. 100-F N. of Standard Road
10-20	MANUFACTURERS' OFFICE	1	40' x 100' x 12'	6,000	72,000	Wood Frame, Cable Roof Bldg., Post & Girder Constr., Covered with Tarpaper	Lighting, Telephone	White Sheds Area, N. of Bldg. 100-F
10-20	CHEM OPERATOR'S OFFICE	1	20' x 30' x 10'	528	5,200	Wood Frame, Sheet Roof Bldg., Wood Siding Telephone Covered with Tarpaper	None	None
10-20	MANUFACTURERS' OFFICE	1	30' x 110' x 12'	6,000	105,600	Wood Frame, Cable Roof, Post & Girder Construction, Gypsum Board Siding	Telephone, Lighting, Heating	East of Bldg. 100-F
10-20	OFFICERS' BUNK	1	15' x 30' x 10	750	7,500	Wood Frame, Sheet Roof Bldg., Papered	Lighting	E. of Manufacturing
10-20	OFFICERS' BUNK	1	15' x 40 x 9	600	5,400	Wood Frame, Sheet Roof Bldg., Wood Siding None Covered with Tarpaper	None	Lower Part, Bunk
10-20	OFFICERS' BUNK	1	40' x 140' x 12	5,600	67,200	Wood Frame, Sheet Roof, Post & Girder Constr., Gypsum Board Siding, Part Open	Power, Lighting, Telephone, Heat, Telephone	E. of 100-F Area
10-20	OPERATOR'S BUNK	1	30 x 40 x 11	1,200	13,200	Wood Frame, Cable Roof Bldg., Siding	None	Lower Part, Bunk
10-20	CLOCK ALLEY	1	10' x 100' x 9	1,100	9,900	Wood Frame, Cable Roof, Open Sided Bldg.	Lighting	N. West Gate
10-20	TEMPORARY BARRACKS FOR PERSONNEL	1	30 x 75 x 10	2,250	22,500	Wood Frame, Cable Roof Bldg., Gypsum Board Siding	Lighting, Power, Heating, Telephone, Cooking Facilities, Toilet & Washroom Facilities	E. of 100-F Area
10-20	IRON FABRICATION PLATEFORM	1	60 x 60	—	—	Wood Platform Laid on End Jills	None	None
10-20	TOOL SHEDS	2	16 x 30 x 9	2,240	20,160	Wood Frame, Cable Roof, Open Sides	Lighting, Power	None
10-20	IRON SHEET SHED	1	20 x 110 x 10	2,000	20,000	Wood Frame, Cable Roof, Post & Girder	Power, Lighting	None
10-20	SHEDDED LOFT	1	22 x 40	1,084	9,120	Sheet Metal Roof, Tin Roof Type	None	East of 172-F-1 Bldg.
10-20	SHEDDED LOFT	1	15' x 30' x 9'	750	6,750	Wood Frame Bldg., Sheet Roof, Siding & Tar Paper Covering	Lighting	E. of 100-F Bldg.
10-20	ENTRANCE OFFICE	1	15 x 30 x 9	450	4,050	Wood Frame, Sheet Roof Building	Telephone	E. of 100-F Bldg.

## BUILDING LIST - TEMPORARY CONSTRUCTION

Sheet 2

CODE	NAME OF BUILDING	NO. OF BUILDINGS	SIZE	100'-F AREA			FACILITIES INCLUDED	LOCATED	
				FLOOR AREA SQ. FT.	VOLUME CU. FT.	TYPE OF CONSTRUCTION			
TC 38	BATCH PLANT	1	12' x 30'	360				Ex. of 100'-F Bldg.	
	LAYOUT & CARPENTER OFFICE	1	12' x 24' x 9'	144	1,512	Wood Frame, Sheet Metal Bldg., no Siding, Roof Wood Siding and Paper Covering	No	Ex. of 100'-F Bldg.	
	PART FABRICATION SHELTER	1	12' x 10' x 10'	120	2,400	Wood Frame, Sheet Metal Bldg., open on All Sides, with Concrete Floor	Lighting, Power	No	
	FIRST AID WAITING SHELTER	1	16 x 24 x 9	384	3,436	Wood Frame, Sheet Metal Bldg., Drop Siding	Lighting, Heating	No	
	AREA RIGGERS' LOT	1	15 x 20 x 9	300	6,100	Wood Frame, Sheet Metal Bldg., Tin Paper Covered	No	Ex. of 100'-F Bldg.	
	OFFICE SHED	1	12 x 24	1,008	9,120	Sheet Metal Frame Type Bldg.	Lighting, Telephone	Ex. of Ex. Office	
	TYPE REPAIR SHED	1	30 x 24 x 14	1,080	15,120	Wood Frame, Cable Roof, Open Sides	Lighting	Ex. of Trans. Garage	
	WELDING SHOP - TRANSPORTATION	1	30 x 30 x 16	480	9,600	Wood Frame, Cable Roof Bldg., with Concrete Floor		No	
	GAS STATION	1	No Building Structure			8-Pump; 3-Underground Storage Tanks	Lighting, Air, Water	Trans. Garage	
	PIPE EQUIPMENT STORAGE SHED	1	32 x 24	384	4,360	Sheet Metal Frame Type Bldg.	Lighting	Ex. of Bldg. 1209	
	JOB REPAIR SHED	1	32 x 72 x 14			Wood Frame Long-Bl Shd Coverage with Insulation	No	Job Parking Lot	
TC 5	WATER SANITATION LOT	1	300 x 150	45,000		Stabilized Area Enclosed by Fence	Water	Ex. of Bldg. 300	
	LINGER YARD	1	790 x 1500	1,125,000		Stabilized Area Composed of Poor Ground General, Approx. 12" Thick Water Bound Gravel	Water, Lighting		
	ROADS	10,000'	10' Wide				Avg. Tide		
	BUS PARKING LOT	1	2000 x 1000	1,000,000					
	CAR PARKING LOT	1	500 x 300	250,000					
	100'-F TO SHIP AREA	1	150 x 1300	345,000					
	100'-F MATERIAL OVERHANG AREA	1	600 x 1300	480,000					
	100'-F TO SHIP AREA	2	3-300 x 2300	900,000					
			3-400 x 600	360,000					
	CLOCK ALLEY	1	600 x 600	360,000					
	RAILROADS		7,309.97'			Wood Rail 40' to 65' w/ Preg., Wood-Tie Base Switches	Avg. Tide		
TC 7	WATER PUMP STATION	1	8 x 10 x 8	96	640	Wood Frame Sheet Metal on a Floating Base	Power, Lighting & Elec. Service Pump	Ex. Water Pump Sta. 100'-F	
	GROUND STORAGE TANK	1	300,000 Gal.			Wood Frame Sheet Metal on Ground	No	Ex. Water Pump Sta. *	
	BOOSTER UNIT X2	1	12 x 16 x 8	192	1,536	Wood Frame, Cable Roof Building	Power, Lighting 1-Elec. Service Pump 2-Groundline Service Pump	Ex. *	
	WATER LINES	4300'	6" dia			Buried & Flanged Steel Pipe 6CA 640 Buried Approx. 4' Deep	Hydraulic & Hose Pump	Avg. Tide	
		4430'	6" dia				No		
		2000'	8" dia				No		
		3000'	10" dia				No		
		3000'	12" dia				No		
		3000'	14" dia				No		

**BUILDING LIST - TEMPORARY CONSTRUCTION**

100-F AREA

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CODE	NAME OF BUILDINGS	BUILDINGS	SIZE	FLOOR AREA SF. FT.	VOLUME CU. FT.	TYPE OF CONSTRUCTION	FACILITIES INSTALLED	LOCATION
SC-8	MAIN GENERATOR	1	75 x 75	5,625	—	Open Framing, Steel Frame, Set on Concrete	1-13 EVA Trans. P-4900/440 V.B. Enclosed by Wooden Frame	Part of 105 BUILDING
	TRANSFORMER BAY	1	36 x 20	720	—	Open Framing with Trans., Set on Ground	3-75 EVA Trans. P-4900/110/220 V.B. Enclosed by Wooden Frame	At 105 Building
	TRANSFORMER BAY	1	36 x 20	720	—	Open	2-50 EVA Trans. P-4900/440/220 V.B. 1-50 EVA Trans. P-4900/220/110 V.B.	At Mill-right Shop
	TRANSFORMER BAY	1	6 x 10	60	—	Open Framing, Trans. Set on Elevated Platform	3-50 EVA Trans. P-4900/440/220 V.B. 1-50 EVA Trans. P-4900/220/110 V.B.	At Booster Station
	TRANSFORMER BAY	1	20 x 30	600	—	Open Framing, Trans. Set on Ground, Enclosed by Wooden Frame	1-200 EVA Trans. P-4900/440/220 V.B. 2-75 EVA Trans. P-4900/220/110 V.B.	At Pumpgate Building
	TRANSFORMER BAY	2	16 x 12	72	—	Open Framing, Trans. Elevated	2-50 EVA Trans. P-4900/440/220 V.B. 1-15 EVA Trans. P-4900/220/110 V.B.	At Carpenter Shop
SC-9	WATER SANITATION LOT BLDG.	200				Surf 11-12 Bldgs, 2 concrete water tanks	Surf	105 Building
	WATER & SEWAGE PARKING LOT BLDG.	200				Surf 11-12 Bldgs, with 4 concrete tanks	Surf	South Boundary
	105-7 PERIM	400				Surf 11-12 Bldgs	Surf	Around 105-7 Bldg. & Parking Areas
SC-10	OPEN PLATEFORM	1	50 x 75	3,750	—			Open
	ICE HOUSE	1	35 x 35 x 20	1,225	—			
	CHARGE BLDG.	1	34 x 20 x 15	1,020	—			
	CHILLED WATER SYSTEMS	1	34 x 20 x 10	680	—			
	LIFTED TANKS	2	9 x 130 x 20	2,340	—			
	PIPE BLDG.	1	9 x 7 x 4	252	—			
	PIPE BLDG.	1	9 x 6 x 8	432	—			
	PIPE BLDG.	1	9 x 6 x 6	324	—			
	PIPE BLDG.	1	9 x 6 x 5	270	—			
	PIPE BLDG.	1	9 x 6 x 7	315	—			
	PIPE BLDG.	1	9 x 6 x 11	594	—			
	PIPE BLDG.	1	9 x 6 x 10	540	—			
	PIPE BLDG.	1	9 x 10 x 6	540	—			
	PIPE BLDG.	1	9 x 6 x 6 (cont.)	324	—			

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## BUILDING LIST - TEMPORARY CONSTRUCTION

Sheet 1

S/N.	NAME OF BUILDING	NO. OF BUILDINGS	SIZE	105 AREA		TIME OF CONSTRUCTION	FACILITIES INSTALLED	MATERIAL
				FLOOR AREA SF. FT.	VOLUME CU. FT.			
<u>SPECIAL FAB. SECTION &amp; MATERIAL AREA</u>								
TC 28	STEEL FABRICATING NO. 1	1	60 x 155 x 18	9300	167400	Wood Frame Shed Roof Building, Post & Girder Construction	Lighting, Water, Mineral system	C11 Steel - White Bluff
	STEEL FABRICATING NO. 2	1	30 x 100 x 18	5000	54000	Wood Frame Cable Roof Building Covered with 1/2" Gypsum Board	None	None
	STEEL FABRICATING NO. 3 105 AREA WAREHOUSE	1	80 x 110 x 13 12 x 100 x 4 12 x 150 x 4	11800	108400	Wood Frame Shed Roof Building, Post & Girder Construction with Loading Docks on North & South Sides	Lighting, Telephone, Heating	None
	STEEL FABRICATING SITES	1 building				Steel & Wood Frame Bldg. with Steel Truss Supported Jowl Covered with Corrugated Sheet Iron, Side Covered with Gypsum Board Partial Cone. Floor	Telephone, Water, Steam Rail & Mineral System, Lighting & Power, Exhaust System	None
	METAL & MAGNETITE SITE		84 x 96 x 38	7896	300048			None
	STEEL WAREHOUSE		70 x 30 x 12	2100	25200	Wood Frame Cable Roof Bldg. Cone. Floor	Lighting, Power, Water, exhaust System Mineral System	Attached to east side
	STEEL FABRICATION WAREHOUSE		64 x 100 x 12 & 20 x 100x3	8400	82800	Wood Frame Shed Roof Bldg. Post & Girder Lightin & Mineral System, Water, Conat. with Load Deck Attached to N. Side	Steam Heat	Attached to E. Side
	STEEL MATERIAL WAREHOUSE		90 x 90 x 10 & 16 x 14 x 9	8292	81000	Wood Frame Shed Roof Bldg. Post & Girder Conat. with Lean-To Office	Lighting, Water, Steam,Heat, Telephone	None
	STEEL CABLE COAT. WAREHOUSE	1	70 x 80 x 12	5600	67.00	(Wood Frame Shed Roof, Post & Girder Coat. Attached to S.E. Corner Wood Frame Cable Roof Building)	Lighting, Steam Heat	None
TC 8	TRANSMISSION BANK	1	10 x 16	160	—	Open Framing Enclosed by Wooden Fence	2 - 250 KVA Trans. P 6900/440/220 3 1 - 50 KVA Trans. P 6900/220/110 3	At Special Fab. warehouse
TC 9	VALVES	1400	Type #2			4" x 4" Wood Post & Bush Holes	None	None
TC 15	PULLEN HOUSE	1	10 x 16 x 12	160	1920	Wood Frame Shed Covered with Corrugated Sheet Iron	Lighting, Water 1-30 HP Boiler	At Special Fab. warehouse
	STEEL LINES	300' - 3"	200' - 2 1/2"	—	—	Bellied & Flanged, Screw & Coupled Steel Pipes Sch. 40	None	None

NOTE: Other facilities included in White Bluff - Building List of Temporary Construction.

## 105-B AREA

STEEL CABLE COAT. OFFICE	1	30 x 80 x 10	2400	24000	Gypsum Board Siding	Lighting, Heating, Telephone, water	M69400-480455
105 CRAFT OFFICE	1	30 x 40 x 10	1200	12000	None	None	M69414-480396
CRAFT OFFICES & SHOPS	1	30 x 125 x 10	3750	37500	None	Lighting, Power, Heating, Telephone, water	M69414-480359
WAREHOUSE	1	60 x 90 x 12	10800	64800	Wood Frame Shed Roof Bldg. Post & Girder Constr., Gypsum Board Siding	Lighting, Heating, water, Telephone	M69414-480171
CHARGE HOUSE	1	40 x 54 x 10	2840	28400	None	Lighting, Steam Heat, Water, Toilet & Bathroom Facilities	M69100-480780
AIR LOCK	2	18 x 96 x 12 & 72 x 90 x 12	9236	96096	Wood Frame Shed & Cable Roof Building, Concrete Floor	Water, Lighting, 1-72 HP Boiler	M69100-480780
STEEL METAL OFFICE	1	27 x 36 x 10	972	9720	Wood Frame Shed, Wood Siding	Lighting, Heating	M69457-480531

## BUILDING LIST - TEMPORARY CONSTRUCTION

105 AREA

CODE	NAME OF BUILDINGS	No. OF STRUCTURES	SIZE	FLOOR AREA S. + FT.	PRICE S. + PT.	TYPE OF CONSTRUCTION	RADIATION DATA
TC 28	LARGE OFFICE	1	12 x 24 x 8	288	494	Wood Frame Shed, Tar Paper Siding	Lighting, Heating
	CRAFT OFFICE	1	24 x 36 x 8	864	1912	Same	Same
	LAYOUT OFFICE	1	12 x 36 x 8	43	3456	Same	Same
	LOGISTICS TANK STATION	1	12 x 15 x 10	180	1800	wood Frame wood shingle roof Building.	None
	BASIC OFFICE	1	12 x 23 x 10	460	4600	Wood Frame Metal roof Building.	Lighting, Heating
	ENTERTAINMENT SHED	1	12 x 15 x 10	360	3000	Wood Frame metal roof Building	Lighting, Heating
	STANDBY POWER UNIT	1	16 x 20 x 10	320	300	Same	Same
TC 35	B.I. IN 24' X 10'	1	14 x 40 x 10			Wood frame shed roof Shingle. Conc. Floor	Water, Lighting, 1-72 ft Boiler
	BLOCK HOUSE	1	12 x 18 x 10	2160	2400	Wood frame shed roof Shingle. Conc. Floor	Lighting, water, 1-72 ft Boiler
	STEAM DOME		300' - 4" # 200' - 2" #	---	---	Welded & Flanged, screwed & Coupled 1/2" w. Steel Pipe - Not Insulated Buried 4' Deep	None
TC 36	MARINE - LITTLE	4	1' x 50 x 9	3600	27000	Wood Frame, Green gypsum board siding.	Lighting, Heating
	BUNK ROOMS* SHACK	1	24 x 27 x 10	648	6450	Wood Frame shed roof Building	Same
	TRAILER	75	4 x 7 x 4	2100	8400		Area side
	FIELD SHACK	10	8 x 10 x 8	800	1400		Same
	GUARD SHACK	3	5 x 5 x 8	75	600		Area side
TC 38	TRANSPORTATION SHACK	1	10 x 20	200	---	Open Housing Enclosed by Wood fence	1-150 KVA Trans. F. 6900/220/110 3 2-150 KVA " 1-690, 440/220 "
TC 37	WATER LINE		500' - 4" # 300' - 2" #	---	---	Welded & Flanged, screwed & Coupled 1/2" w. Steel Pipe - Not Insulated	None

NOTE: TC - 5, 6, 9, &amp; 16 Facilities Included in 100-B Area Building List of Temporary Construction.

TC 41	WAREHOUSE	1	48' x 20' x 10	960	9000	Wood Frame Gypsum Board Siding	Light, heat, Telephones	Nylon - 41-2005
105-P	DIVISION ENGINEERS' OFFICE	1	50 x 30 x 10	1500	16800	Same	Light, heat, Telephones, water	Nylon - 41-2007
	CRAFT BUILDING	1	155 x 30 x 10	4650	46500	Same	Same	1-1930 - 41-2121
	WAREHOUSE	1	100 x 24 x 12	2400	24000	Same	---	1-1930 - 41-200
	CHARGE HOUSE	1	40 x 14 x 10	560	5600	Same	Light, Heat, Water	Nylon - 41-2005
	AIR LOCK	2	18 x 96 x 12 & 72 x 90 x 12	8192	98450	Same	Light, Heat, Telephones, water Compressed Air	1-19220 - 41-925
	AIR LOCK OFFICE	1	40 x 25 x 12	1000	12000	Same	Light, Heat, Telephones, water	- 41-937
	Laundry	1	24 x 12 x 8	288	2305	Same	Light, Heat, Telephones	Nylon - 41-2009
	CRAFT CENTER	1	36 x 24 x 8	864	6910	Same	Light, Heat, Telephones	Nylon - 41-2012

## BUILDING LIST - 105 AREA CONSTRUCTION

105 AREA

SHEET 3

CODE	NAME OF BUILDING	No. of F.	ST. NUMBER	SIZE	FLOOR AREA SQ. FT.	VOLUME CU. FT.	TYPE OF CONSTRUCTION	FACILITIES INSTALLED	LOCATION
<u>105-D AREA (Cont'd)</u>									
TC 28	LAYOUT OFFICE STEEL METAL SHED	1		36 x 12 x 8	432	34,56	Wood Frame Gypsum Board siding	Light, Heat	105-D Area
		1		20 x 38 x 10	760	7600	Wood Frame, Vertical Board Siding	Light, Heat, Telephones	
TC 7	WATER LINES	4"		590'			Soldered & Flanged, Screw & Coupled Steel Pipe		105-D Area
TC 8	AIR LINES TRANSFORMER BANK	4"		150'			Same	4 Air Compressors	105-D Area
		1		10 x 10	100	—	Open Road Fenced Structure	1 - 75 KVA Trans. P 6900/230/110 8	105-D Area
TC 15	BOILER	1		10 x 12 x 10	120	1200	Wood Frame Shed Roof Bldg.	Lighting, Water 1-32 HP NAT Boiler	105-D Area
	STEEL LINES	2"		150'			Same	None	105-D Area
TC 16	TOLL BOXES FIELD PRIVIES GUARD SHANTIES	79		4 x 2 x 4	2212	8848			105-D Area
		9		8 x 10 x 8	720	5660			105-D Area
		2		6 x 6 x 8	72	576			105-D Area
<u>105-E AREA</u>									
TC 28	105 - DIV. ENGRS. FIELD OFFICE	1		40' x 65' x 10 & 8 x 12 x 8	2,696	26,768	Wood Frame, Gable Roof, Wood Siding, Tar Paper Siding	Lighting, Heating, Telephone, Water, Toilet & Washroom Facilities	105-E Area
	105 - FIELD CRAFT SHEDS	1		60' x 185' x 11	11,100	122,100	Same as above with Post & Girder Constr. Power, Lighting, Heating, water, Telephone with Lean-To Sided on east side		105-E Area
105 -	WAREHOUSE	1		60' x 80' x 12'	4,800	57,600	Post & Girder Constr. Shed Roof Bldg.	Lighting	
BOLT SHOP		1		20 x 50 x 9	1,000	9,000	Wood Frame, Shed Roof, Cinder Floor	Lighting	
LARGE OFFICE		1		16 x 26 x 10	320	3,200	Wood Frame, Gable Roof Bldg., Wood Siding with Tar Paper Covering	Lighting, Heating	
CAMPMASTER OFFICE		1		30 x 16 x 9	480	4,320	Wood Frame, Gable Roof Bldg., Wood Siding with Tar Paper Covering	Lighting, Telephone, Heating	
LAYOUT OFFICE		1		16 x 26 x 10	416	4,160	Wood Frame, Gable Roof Building	Lighting, Heating	
BAGGAGE OFFICE		1		20 x 30 x 10	600	6,000	Wood Frame, Gable Roof, Drop Siding	Lighting, Heating, Telephone	

ALL - SPECIAL PARK UNIT IN AREA

SILVER LIN - NATIONAL CENTER

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## BUILDING LIST - TEMPORARY CONSTRUCTION

200 EAST AREA

ITEM	NAME OF BUILDING	NO. OF BUILDINGS	SIZE	FLOOR AREA SQ. FT.	VOLUME CU. FT.	TYPE OF CONSTRUCTION	MAINTENANCE REQUIREMENTS
20-1	STORAGE SHED & OFFICE	2	12-22 x 48 12-22 x 30	7,056	103,320	Sheet Metal Roof	Lighting
20-2	TIRES REPAIR PLATFORM	1	40 x 30	1,200	—	Wood Frame, Laid on Sods	Lighting, Air
20-3	SHEDS SHED	1	20 x 25 x 16	400	7,600	Wood Frame, Sheet Roof Building	Lighting
20-4	INDUSTRIAL SHEDS	1	15 x 30 x 8	450	3,600	Wood Frame, Sheet Roof Building	Lighting
20-5	ARMY QUARTERS & BARRACKS BUILDING	1	30 x 30 x 7	1,350	10,300	Wood Frame, Sheet Roof Building	Lighting
20-6	ARMY OFFICE SHED	1	22 x 25	528	5,040	Wood Frame, Sheet Roof Building	Lighting
20-7	ARMY STORES	7	16 x 20 x 10	2,340	22,400	Wood Frame, Open Sheet Roof	Lighting, Lighting
20-8	ARMY ENGINEER & LABOR OFFICES	1	22 x 48	1,056	9,120	Sheet Metal Roof	Lighting
20-9	INDUSTRIAL PIPE FABRICATING SHED	1	24 x 40 x 9	1,040	9,340	Wood Frame, Partially Open Sheet Roof	Lighting, Heating, Telephone
20-10	ARMY CARPENTERS' OFFICE	1	15 x 25 x 9	625	5,625	Wood Frame, Sheet Roof Building	Lighting
20-11	ARMY SHED	1	36 x 44 x 10	2,316	21,140	Wood Frame, Open Sheet Roof	Lighting, Heating
20-12	ARMY TOOL ROOM	1	16 x 15 x 8	256	2,048	Wood Frame, Sheet Roof Building	Lighting
20-13	ARMY PIPE SHED	1	30 x 40 x 9	1,200	10,800	Wood Frame, Partially Open Sheet Roof	Lighting, Telephone, Power
20-14	ARMY QUARTERS SHED	1	16 x 44 x 8	704	5,632	Wood Frame, Sheet Roof Building	Lighting, Power
20-15	ARMY RECORDS' LOT	1	16 x 22 x 9	352	3,144	Wood Frame, Sheet Bldg. on Sods	Lighting
20-16	WATER TOWER BUILDINGS	1	32 x 66 x 9 & 32 x 44 x 12	2,112	25,924	3-Story wood Frame Bldg. with Sheet Roof Pitched 3-Sides, Concrete Floor	Lighting, Power, Heating, Telephone
20-17	ARMY ELECTRIC SHOPS	2	16 x 30 x 10	960	9,600	Open Wood Frame Shed	Lighting, Power
20-18	ARMY ENGINEER'S OFFICE	1	30 x 60 x 10 & 6 x 20 x 9	2,560	35,440	Wood Frame, Gable Roof Bldg., Post & Gable Construction, Open Board Siding	Lighting, Telephone, Air Conditioning, Heating, Power, Light & Heat, Telephone Installation
20-19	BAGGAGE OFFICE	1	20 x 26 x 9	480	4,320	Wood Frame, Gable Roof Bldg., Open Board Siding	Lighting, Telephone, Power
20-20	SPECIAL EQUIPMENT WAREHOUSE	1	90 x 100 x 11	9,000	99,000	Wood Frame, Sheet Roof Bldg., Post & Gable Construction	Lighting, Power, Telephone, Heating
20-21	EQUIPMENT STORAGE SHEDS	2	120 x 210 x 10 x 40x100x10	36,560	365,600	Wood Frame, Open Sheet Bldg., Post & Gable Construction	Lighting
20-22	FIRST AID WAITING SHELTER	1	16 x 25 x 10	384	3,840	Wood Frame, Sheet Roof Bldg. on Sods	Lighting
20-23	BLACKSMITH SHOP	1	30 x 30 x 10	900	9,000	Open wood Frame Shed	Lighting, Safety, Power
20-24	MACHINERY SHOP	1	45 x 45 x 12	2,085	25,020	Wood Frame, Sheet Roof Bldg., Post & Gable Construction	Lighting, Power, Safety
20-25	STORAGE PLATFORM	1	100 x 100 x 4	10,000	—	Wood Frame Platform 2" Decking	Lighting
20-26	PAINT OFFICE	1	14 x 20 x 9	280	2,520	Wood Frame, Gable Roof Bldg., on Sods	Lighting
20-27	ROADS, PARKING LOTS, & PARKING AREAS						
	ROADS	5400'	30' wide			Water Bound Gravel 12" Thick	Lighting
	ROADS	21500'	20' wide			Sods	Lighting
	WATER SANITATION LOT	1	300 x 300	90,000	—	Stabilized Area with Sand & Gravel Approximately 12" Thick	Lighting
	BUS PARKING LOT	1	1,000 x 1,000	1,000,000	—	Stabilized Area with Sand & Gravel, Approximately 12" Thick	Lighting, Bus Garage & Car Repair
	TEMPORARY CONSTRUCTION AREAS	3	1-1200 x 2100 1-1200 x 1500 1-600 x 300	4,520,000	—	Stabilized Area, Sand & Gravel 12" Thick	Lighting, Safety
							Lighting, Safety of 3-4 hours

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**SEARCH LINE = TOWNEWARE COMMERCIAL**

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SIEET 10-15

## BUILDING LINE - TEMPORARY CONSTRUCTION

200 EAST AREA

	NAME OF BUILDING	NO. OF BUILDINGS	FLOOR AREA SQ. FT.	VOLUME CU. FT.	TYPE OF CONSTRUCTION	REMOVED DURING
TG 10	MATERIALS LOT OFFICES	1	8 x 12 x 6	96	Wood Frame, Open Metal Siding on walls	Demolition, Removal
	DARREL PLATFORM & SHELTER	1	30 x 30	2,000	24 Wood Decking Laths on platform	Demolition, Removal
	GILDEDGE STORAGE BUILDINGS	2	14 x 30 x 11	596	Wood Frame, Open Metal Siding on walls	Demolition, Removal
	DRIVE BOOTHES	10	4 x 6 x 7	192	Wood Frame, Open Metal Siding on walls	Demolition, Removal
	OIL STORAGE PLATFORM	1	14 x 12	192	Wood Frame, Sheet Metal Roof - All Metal	Demolition, Removal
	TOILETS	2	8 x 10 x 6	4,000		
	TOOL ROOMS	120	4 x 7 x 6	1,728		
	BBQ ROOMS	6	4 x 6 x 6	144		
	DEPARTMENT LOCKERS	22	1 x 2 x 7	26		
TG 11	SHEDS	900	4 x 6			
	SEPTIC TANK	1	8 x 12 x 6	96	VS. Clay & Glass Pipe Siding, Panels	Demolition, Removal
TG 12	BOILER HOUSE	1	16 x 26 x 10	336	Wood Frame & Siding	Demolition, Removal
	STEAM LINES	200	3 x 3			
		200	3 x 3			
	TELEPHONES		26 buildings served			

Used Form, Cable System & Sodden porous Building Foundation, usually consists of  
Twisted Pair and Open Iron Wire top-0.020 gauge with a capacity of 100 ft.  
Approved, 70 Construction Department  
Established

## BUILDING LIST - TAB C (MAY CONSTRUCTION)

Sheet 1

## 200 EAST AREA

NAME	BUILDING NO.	N. OF BUILDINGS	SIZE	FLOOR AREA SQ. FT.	VOLUME CU. FT.	TYPE OF CONSTRUCTION	FACILITIES INSTALLED	LOCATED
<u>JOURNAL SHIP AREA</u>								
TC 35 PAINT SHED	1	24 x 48		1056	9140	Butler Sheet Metal Hat	Lighting, Heating and Telephone	Old Street & G-Avenue
CEMENT SHED	1	24 x 48 x 11		1154	14672	Wood Frame Cable Roof Building	Lighting	7th Street & G-Avenue
CEMENT SHED DOCK	1	12 x 48		528	—	3' High - Wood Frame	None	7th Street & G-Avenue
CEMENT SHED PUNCH	1	9½ x 48		456	—	3' High - Wood Frame	None	7th Street & G-Avenue
CHANE LOFT	1	15 x 50 x 9		750	6750	Wood Frame Shed Roof Building	Lighting, Telephone	7th Street
RIDERS' OFFICE & LOFT	1	10 x 50 x 11		1140	15840	Wood Frame Cable Roof	Lighting, Heating, and Telephone	7th Street
RIDERS' LOFT DOCKS	4	12 x 32 x 32		496	—	Wood Frame 3' High	None	7th Street
TRANSPORTATION GARAGE	1	40 x 90 x 15		3600	54000	Wood Frame - Concrete Floor Post and Girder Construction	Lighting, Heating, Telephone, Water, Air	Between 6th & 7th Street
GAS STATION	1	3 x 40		120	—	2 Elec. Lamps Set on Concrete Island	Lighting, Pump, Water, Air	Between 6th & 7th Street
OIL STORAGE PLATFORM	1	16 x 16 x 3'		256	—	Wood Frame 3' High on Skids	None	Between 6th & 7th Street
LABORATORY & CONCRETE OFFICE	1	24 x 40 x 11		960	10560	Wood Frame on Skids & Cable Roof	Telephone, Heating, lighting	7th Street & G-Avenue
LAYOUT OFFICE	1	24 x 40 x 11		960	10560	Wood Frame on Skids Cable Roof	Telephone, Heating, lighting	7th Street & G-Avenue
WORKING BLDG	1	80 x 145 x 14		11600	159400	Wood Frame Concrete & Earth Floor Post and Girder Construction	Lighting, Power, Heating, Telephone, Water, Ventilation	7th Street
REINFORCED STEEL SHOP	1	41 x 85 x 14		3485	41620	Wood Frame, Truss Supported	Lighting, Power	7th Street
REINFORCED STEEL OFFICE	1	40 x 46 x 10		480	4800	Wood Frame Cable Roof on Skids	Lighting, Telephone, Heating	7th Street
IS - STORAGE BLDG	1	41 x 190		6150	94400	Butler Sheet Metal Hat	Lighting	6th Street & G-Avenue
IS - DIVISION ENGINEER'S OFFICE	1	48 x 110 x 11 & 16 x 42 x 11		7091	78001	Wood Frame Shed Roof, Post and Girder Construction	Lighting, Heating, Water, Sewer, Telephone, Toilet & Wash Room Facilities	6th Street & G-Avenue
E. S. ENGINEER'S OFFICE	1	24 x 30 x 11 & 7 x 8 x 9		776	8444	None (Cable Roof)	None	C-Avenue Between 6th & 7th Street
TEST AND SAFETY OFFICE	1	22 x 48		1056	9120	Butler Sheet Metal Hat	Lighting, Heating, and Telephone	6th & G-Avenue
IS - WAREHOUSE	1	80 x 49 x 14		16740	400640	Wood Frame, Shed Roof Post & Girder	Lighting, Heating, Telephone, Water Fire Protection System	3rd & G-Avenue
IS - WAREHOUSE DOCKS	4	8 x 31 x 14 x 103		1644	—	Wood Frame 3' High	None	3rd & G-Avenue
CYLINDER STORAGE BUILDINGS	2	14 x 31 x 15		744	9672	Wood Frame - Slats	None	3rd & G-Avenue
PIT & SKI	1	70 x 77 x 17		5390	91650	Wood Frame Truss Supported	Power, Lighting, Water, Monorail System, Telephone, Heating, Ventilation	6th & G-Avenue
IS - CYLINDER BLDG	1	60 x 100 x 14 x 15 x 45 x 8		4675	55400	Wood Frame, Post & Girder Construction Shed Roof	Lighting, Telephone, Heating, Water, Ventilation, Air-Cooling	6th & G-Avenue
IS - CYLINDER BLDG	1	64 x 177 x 14		11348	159530	Wood Frame, Shed Roof, Post & Girder Construction	Lighting, Telephone, Water, Heating Ventilation, Air-Cooling	6th & G-Avenue
IS - CYLINDER BLDG	4	12 x 12 x 103		3660	—	Wood Frame - 3' High	None	6th & G-Avenue
IS - CYLINDER BLDG	1	14 x 160		1940	—	Wood Frame - 3' High	None	6th & G-Avenue
IS - CYLINDER BLDG	1	48 x 65 x 10		3140	31400	Wood Frame, Open Shed, Lean-To	None	6th & G-Avenue
4 LODGE BLDG	1	40 x 40 x 9		400	3600	Wood Frame, Open shed, Lean-To	None	6th & G-Avenue
CAR CUT & SAW, OFFICE, & SAW SHOP	1	15 x 38 x 10 15 x 30 x 14		5004	47540	Wood Frame, Cable & Shed Roof, Partially Open	Power, Lighting, & Heating	In Lumber Yard
STORAGE BLDG	1	14 x 46 x 10		554	5540	Wood Frame, Lean-To, Open Front	Heating & Lighting	In Lumber Yard
STORAGE BLDG	1	15 x 100 x 9		1500	13500	Wood Frame, Lean-To, Shed Roof	Heating & Lighting	In Lumber Yard
CAB. OFFICE & DRY HOUSE	1	15 x 100 x 9		1500	13500	Wood Frame, Lean-To, Shed Roofs	Heating & Lighting	In Lumber Yard
1/2 B. & 1/2 B. BLDG	1	40 x 34 x 10		660	6400	Wood Frame, Shed Roof, Open Front	Lighting	In Lumber Yard
OPEN SHEDS	2	15 x 43 x 10		4760	47600	Wood Frame, Lean-To & Cable Roofed Open Sheds	Lighting & Power	In Lumber Yard

## BUILDING LIST - TEMPORARY CONSTRUCTION

Sheet 4

## 400 WEST AREA

TYPE	BUILDING NAME	NO. OF BUILDINGS	SIZE	FLOOR AREA SQ. FT.	VOLUME CU. FT.	TYPE OF CONSTRUCTION	FACILITIES INSTALLED	LOCATION
<u>401 - T Area</u>								
TO-05 FORM CAST BUILDING "T"		1	34 x 64 x 22	1920	42240	Wood Frame with Overhead Track Ramp Concrete Floor	Lighting, Power, Water, Steam Eng., Telephone	E. of 221-T Building
METEOROLOGY BUILDING		1	15 x 24 x 9	360	3240	Wood Frame Shed Roof Building	Lighting and Heating	At 291-T Building
ONE SHED		1	12 x 15 x 9	180	1620	Wood Frame -Lean-To -Open Shed	Lighting and Power	E. of 221-T Building
* FIELD WAREHOUSE		1	30 x 60 x 8	1040	16320	Wood Frame -Shed Roof Building	Lighting and Heating	E. of 221-T Building
PIPE TEST SHED		1	30 x 30 x 9	900	8100	Wood Frame -Lean-To -Open Shed	Lighting and Water	On A Avenue E. of 221-T
EARTHWARE PIPE SHED		1	15 x 30 x 11	450	4950	Wood Frame -Lean-To -Open Shed		E. of 221-T Building
WARMING SHEDS (CRAFT)		2	15 x 100 x 9	3000	27000	Wood Frame -Shed Roof Building	Lighting and Heating	E. of 221-T Building
OFFICE (CRAFT)		1	15 x 100 x 9	1500	13500	Wood Frame -Shed Roof Building	Lighting and Heating	E. of 221-T Building
CRAFT OFFICE HUTS		3	24 x 48	3168	27360	Butler Sheet Metal Huts	Lighting, Telephone & Heating	E. of 221-T Building
MILLWRIGHT SHOP		1	15 x 40 x 10	600	6000	Wood Frame -Lean-To - Open Shed	Lighting	E. of 221-T Building
MECHANIC SHOP		1	15 x 40 x 10	600	6000	Wood Frame -Lean-To - Open Shed	Lighting	E. of 221-T Building
WELDING SHOP		1	16 x 40 x 10	280	25200	Wood Frame -Lean-To - Open Shed	Lighting	E. of 221-T Building
PIPE FABRICATION SHED		1	16 x 30 x 9	480	4320	Wood Frame -Lean-To - Open Shed	Lighting	E. of 221-T Building
PIPE FABRICATION SHED		1	30 x 40 x 9	1200	10800	Wood Frame -Lean-To - Open Shed	Lighting	E. of 221-T Building
REAR AREA		1	20 x 30 x 20	600	6000	Wood Frame Cable Roof Bldg., on Skids	Lighting	S.E. Corner 221-T
<u>401 - U Area</u>								
TO-05 FORM CAST BUILDING "U"		1	34 x 64 x 22	1920	42240	Wood Frame with Overhead Track Ramp Concrete Floor	Lighting, Power, Water, Steam Eng., Telephone	E. of 221-U Building
CRAFT OFFICE HUT		3	24 x 48	3168	27360	Butler Sheet Metal Huts	Lighting, Heating, Telephone	S. of 221-U Building
ONE SHED		1	15 x 100 x 9	1500	13500	Wood Frame -Shed Roof Building	Lighting & Heating	E. of 221-U Building
OFFICE (CRAFT)		1	15 x 100 x 9	1500	13500	Wood Frame -Shed Roof Building	Lighting & Heating	E. of 221-U Building
BLDG. 100		1	30 x 60 x 8	1040	16320	Wood Frame-Lean-to-Open Shed, with Racks	Lighting	E. of 221-U Building
TOOL & EQUIPMENT SHED		1	30 x 30 x 9	900	8100	Wood Frame -Lean-To -Open Shed	Lighting & Water	A-Ave., E. of 221-U Building
EARTHWARE PIPE SHED		1	15 x 30 x 11	450	4950	Wood Frame -Lean-To -Open Shed	Lighting	E. of 221-U Building
ONE SHED		1	14 x 15 x 9	180	1620	Wood Frame Sheet Metal	Lighting & Power	E. of 221-U Building
ANALYTICAL LAB		1	16 x 40 x 10	280	25200	Wood Frame-Lean-to-Open Shed	Lighting	E. of 221-U Building
BLDG. 101		1	15 x 40 x 10	600	6000	Wood Frame-Lean-to-Open Shed	Lighting	E. of 221-U Building
BLDG. 102		1	40 x 30 x 12	600	7200	Wood Frame-Lean-to-Open Shed	Lighting	E. of 221-U Building
REAR AREA		4	15 x 30 x 9	900	8100	1 - Bldg. Closed 3 - Bldg. Open Shed	Lighting	E. of 221-U Building
<u>402-GLASSWORK AREA TO</u>								
T-05 GLASSWORK SHED		1	15 x 70 x 9	1050	9450	Wood Frame -Shed Roof Building	Lighting & Heating	E. of 272 Building
BLDG. 101A		1	16 x 16 x 9	156	1304	Wood Frame -Cable Roof Building	Lighting, Telephone, & Heating	At 272-4 Building
WARMING BUILDING		1	14 x 20 x 8	280	2240	Wood Frame-Shed Roof Bldg., on Skids	Lighting, Telephone, & Heating	At 270-6 Building
PIPE STATION & SIGHTING		1	25 x 70 x 10	1803	17953	Wood Frame-Cable Roof-Elev. Green Hall	Upper Lighting, Telephone, Water, Heating, Sighting & Glass Room Facilities, Sensors	At 270-9 Building

**SECRET**

## BUILDING LIST - TEMPORARY CONSTRUCTION

Sheet 3

200 FT. AREA

CODE	BUILDING NAME	NO. OF BUILDINGS	SIZE	FLOOR AREA SQ. FT.	VOLUME CU. FT.	TYPE OF CONSTRUCTION	FACILITIES INSTALLED	LOCATION
TC-35	CLOCK ALARMS	2	12 x 54 x 11	1344	16,784	Wood Frame - Gable Roof - Open Shed	Lighting	At East Gate
	CLOCK OFFICES	2	10 x 12 x 11	240	2640	Wood Frame - Gable Roof Building	Lighting & Heating	At East Gate
	ELECTRIC SHOP	1	10 x 30 x 8	840	6720	Wood Frame - Lean-To - Open Shed	Lighting	At 2nd Building
	P.W. SHOP	1	10 x 48 x 10	960	9600	Wood Frame - Lean-To - Open Shed	Lighting	At 2nd Building
	MATERIALS SHOP	1	10 x 48 x 10	960	7920	Wood Frame - Lean-To - Open Shed	Lighting	At 2nd Building
	CARPENTER OFFICE	1	6 x 32 x 9	576	5184	Wood Frame - Sheet Roof - On Sheds	Lighting & Heating	At 2nd Building
	ELECTRIC SHED	1	12 x 16 x 9	192	1728	Wood Frame - Lean-To - Open Shed	Lighting	At 2nd Building
	CRAFT OFFICES & STORAGE SHED	1	5 x 40 x 9	600	5400	Wood Frame - Sheet Roof Building	Lighting	At 2nd Building
	DR. STORE	1	3 x 15 x 10	270	2880	Wood Frame - Gable Roof 3' Above Ground Level	Lighting	At Motor Rehabilitation Yard
	WATER SANITATION OFFICE	1	4 x 16 x 8	240	2048	Wood Frame - In Sheds	Lighting	At Water Sanitization Yard
	KERREL STORAGE SHED	1	10 x 30 x 8	960	7296	Wood Frame - Canvas Covered-Ground Floor	Water	At Water Sanitization Yard
	PLANTER COAL TIPPLE	1	1 x 8 x 6	—	—	Wood Frame 20' High	None	3. of 15 Garbage
TC-3	WHEELERS CLOUD	1	100 x 300 x 16	—	—	—	—	3rd St. & D-Avenue
	INDUSTRIAL STORAGE YARD	1	100 x 300	—	—	Wood Post - Wire Fence	None	At 2nd Building
	WATER SANITATION YARD	1	100 x 300	—	—	Wood Post - Wire Fence Group Surf. Area	None	3rd St. & D-Avenue
	TRUCK & CAR PARKING LOTS	2	100 x 300	—	—	Reinforced & Stabilized	Lighting, none, Shop & Millings	None
	STORAGE RAMPS	2	200 ft. 20 ft. 10 ft. 10 ft. 10 ft.	1000 ft.	—	Water Bound 12" Thick	—	None
	STORAGE RAMPS	2	200 ft. 6 ft. 10 ft.	1000 ft.	—	Water Bound 6" Thick	—	None
	INDUSTRIAL - STORAGE AREAS	12	—	1000 ft.	—	Water Bound Gravel 12" Thick	None	None
TC-4	WALLS	1000 ft. 600 ft. 1000 ft. 1000 ft.	—	—	—	None	None	None
TC-5	WALLS	1000 ft. 600 ft. 1000 ft.	—	—	—	None	None	None
TC-6	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-7	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-8	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-9	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-10	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-11	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-12	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-13	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-14	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-15	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-16	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-17	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-18	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-19	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-20	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-21	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-22	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-23	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-24	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-25	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-26	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-27	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-28	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-29	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-30	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-31	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-32	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-33	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-34	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-35	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-36	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-37	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-38	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-39	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-40	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-41	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-42	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-43	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-44	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-45	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-46	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-47	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-48	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-49	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-50	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-51	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-52	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-53	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-54	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-55	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-56	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-57	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-58	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-59	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-60	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-61	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-62	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-63	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-64	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-65	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-66	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-67	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-68	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-69	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-70	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-71	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-72	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-73	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-74	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-75	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-76	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-77	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-78	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-79	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-80	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-81	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-82	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-83	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-84	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-85	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-86	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-87	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-88	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-89	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-90	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-91	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-92	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-93	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-94	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-95	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-96	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-97	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-98	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-99	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-100	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-101	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-102	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-103	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-104	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-105	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-106	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-107	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-108	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-109	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-110	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-111	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-112	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-113	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-114	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-115	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-116	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-117	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-118	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-119	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-120	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-121	WALLS	600 ft. 600 ft. 600 ft.	—	—	—	None	None	None
TC-122	WALLS	600 ft.						

## BUILDING LIST - TELEGRAPH CONSTRUCTION

200 WEST AREA

Sheet 4

CODE	BUILDING NAME	BUILDINGS	SIZES	FLOOR AREA SQ. FT.	VOLUME CU. FT.	TYPE OF CONSTRUCTION	FLOOR FLOOR DUSTED	LOCATION
TC 10 TOOL SHEDS		362	4 x 7 x 6	103.36	40344			Area Side
		17	4 x 10 x 6	60	2720			Same
BOILERS		26	8 x 40 x 6	4320	36340			Same
		14	6 x 6 x 6	504	4032			Same
SHACKS		4	3 x 8 x 8	96	768			Same
		1	5 x 5 x 8	25	200			Same
		3	6 x 7 x 8	126	1008			Same
		3	8 x 8 x 9	192	1728			Same
		8	6 x 12 x 9	768	6012			Same
		8	10 x 14 x 9	1120	10080			Same
		1	12 x 15 x 9	180	1440			Same
		1	14 x 14 x 9	196	1764			Same
DRIVE ROOMS		26	6 x 6 x 7	384	2896			Same
WARE ROOMS		8	6 x 5 x 7	160	1120			Same
FIELD SHEDS		25	9 x 4 x 4	180	1200			Same
LABOR LOCKERS		8	1 x 2 x 7	16	112			Same
ROLL RIMS		1	6 x 8 x 4	48	336			Same
IRON PLATFORMS		1	12 x 16	192	144			Same
TRAILER BACK		1	14 x 26	336	2304			Same
TC 11. SEWER LINES & SEPTIC TANKS		700 ft.	6" & 12" Clay Bell & Spigot	—	—	Lead Mortar	Septic Tank & Tile Field	Same
TC 12. SHELTER HOUSES		2	22 x 45 x 30	1980	10800	Lead Frame Sheet Roof Open End	Covered	Bureau I-100 H.P. H.E.T. Building
BOILER HOUSE		1	10 x 16 x 30	115	675	Lead		Lighting, Water
BOILER HOUSE		1	11 x 16 x 30	135	725	Lead Enclosed		
BOILER HOUSE		2	12 x 16 x 30	132	720	Lead Frame Sheet Roof Building		Lighting, Water
BOILER HOUSE		1	14 x 20 x 30	150	900	Lead		
SEWER LINES		3000 ft.	2"	—	—	Lead & Galvanized Iron	Insulated	
SEWER LINES		2000 ft.	3"	—	—	Lead and Open	Iron Pipe & Insulated Piping	15 Telephone & Approx. 20 apparatus
TC 13. OFFICES		27 BUILDINGS REPORTED		—	—	Table and Open	Iron Pipe & Insulated Piping	15 Telephone & Approx. 20 apparatus

SHEET NO. 20

SECRET

~~SECRET~~

TEMPORARY ROAD CONSTRUCTION

A. New Construction

1. Blacktop (Hanford Camp)

18' width	19.05 miles
24' width	17.01 miles
28' width	3.20 miles
30' width	0.20 miles
40' width	0.20 miles
50' width	<u>0.57</u> miles
Subtotal	40.23 miles

2. Gravel Surfaced

16' width	11.15 miles
18' width	7.50 miles
20' width	23.16 miles
30' width	1.06 miles
40' width	<u>0.65</u> miles
Subtotal	43.52 miles

B. Existing Gravel Roads, Improved & Maintained.

20' width	<u>2.50</u> miles
Subtotal	2.50 miles

C. Existing Gravel Roads, Maintained Only.

18' width	<u>7.35</u> miles
Subtotal	7.35 miles

Grand Total (Without regard  
to Classification, Width,  
or Type of Surface). 93.60 miles

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TEMPORARY WALK CONSTRUCTION

TEMPORARY BLACKTOP WALKS (HANFORD & CENTRAL SHOPS)

4' width	30.20 miles
6' width	9.60 miles
10' width	7.10 miles
12' width	0.86 miles
20' width	1.60 miles
25' width	0.02 miles
35' width	0.04 miles
50' width	<u>0.02 miles</u>

Grand Total - Temporary Blacktop Walks 49.44 miles

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LIST OF TEMPORARY SEWERS & SEPTIC TANKS

<u>Area</u>	<u>Length of Sewer Lines</u>	<u>Number of Septic Tanks</u>
100-B	300 Ft.	2
100-D	600 Ft.	2
100-F	1,500 Ft.	2
200-E	900 Ft.	1
200-W	700 Ft.	10
700 and 1100	1,600 Ft.	2
Central Shops	6,400 Ft.	1
White Bluffs	300 Ft.	1
3000 Area Camp	3,150 Ft.	1
Hanford Camp	<u>214,250 Ft.</u>	<u>76</u>
Total	229,900 Ft.	88

\* Used permanent Power and Service Area Septic Tank.

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**TABULATION OF TRACT HOUSE NUMBER & CAPACITY**

<u>Tract House Number</u>	<u>Capacity in Persons</u>
T-1814	13
D- 59	6
B- 73	10
D- 216	7
D- 223	8
D- 224	12
T-1787	10
S-1676	6
Q-1454	22
R-1545	10
P-1301	12
P-1271	10
B- 82	7
B- 113	6

A Portions of sheets 1, 6; and 14 are non-readable

~~SECRET~~  
BUILDING LIST - TEMPORARY CONSTRUCTION

AREA WIDE - OUTSIDE SPECIFIC AREAS

CODE	NAME OF BUILDING	No. OF BUILDINGS	SIZE	AREA Sq. Ft.	VOLUME Cu. Ft.	TYPES OF CONSTRUCTION	FACILITIES INSTALLED	LOCATION
TC 5	<u>PLANT WIDE &amp; HANFORD CAMP ROADS, PARKING LOTS &amp; WALKS</u>							
	HANFORD CAMP ROADS		3,000 ft. 50' Wide 1,100 ft. 40' Wide 1,100 ft. 30' Wide 17,000 ft. 28' Wide 90,000 ft. 24' Wide 100,300 ft. 18' Wide 155,800 ft. 20' Wide			Bituminous Surfacing " " " " " " " " " " " " " " " Water Bound Gravel	None None None None None None None	Hanford Camp Same Same Same Same Same Same Same
	SALVAGE YARD ROADS		5,000 ft.		---	Wood Framing & Decking, 6" Water Bound Gravel, 20' Wide	None	Salvage Yard
	MACHINE GUN RANGE ROADS		2,000 ft.		---	Water Bound Gravel 8" Thick, 20' Wide	None	At North Slope of Gable Mt. Opposite Radio Tower
	ROADS WHITE BLUFF STORAGE AREA		4,000 ft.		---	Water Bound Gravel 8" Thick, 20' Wide	None	White Bluff's Road
	HONEY HILL ROADS		2,500 ft.		---	20' Wide, Water Bound Gravel, 8" Thick	None	Route 4N - Mile 2
	HONEY HILL SANITATION LOT		400' x 400'			20' Wide, Water Bound Gravel, 8" Thick	None	Same
TC 5	<u>MISC. PARKING AREAS - HANFORD CAMP</u>							
	BUS PARKING LOT #1	1	750 x 900	675,000		Oil Treated	Flood Lighting, Railings, Telephone & Dispatcher's Towers	Division & C-Avenue
	BUS PARKING LOT #2	1	820 x 900	758,000		Same	Same	8th & B-Avenue
	CAR PARKING LOT - ADM. BUILDING	1	150 x 1100	165,000		Water Bound Gravel, Partially Oil Treated	Railings and Car Stops	Division Street
	CONTRACTORS' PARKING LOT	1	300 x 1300	390,000		Water Bound Gravel	Car Stops	Division St. & C-Avenue
	CAR PARKING LOT - AUDITORIUM	1	800 x 400	200,000		Same	Same	B-Avenue & 2nd Street
	CAR PARKING LOT - LAKE HANFORD	1	300 x 300	90,000		Oil Treated	Same	Division St. & C-Avenue
	CAR PARKING LOT #1 - CONVAL QTRS.	1	200 x 200	40,000		Water Bound Gravel	Same	Lake Hanford
	CAR PARKING LOT #2 - CONVAL QTRS.	1	200 x 200	40,000		Same	Same	W. of Conval. Building
	CAR PARKING LOT - THEATER	1	150 x 400	60,000		Same	Same	Same
	CAR PARKING LOT - SHOPPING CENTER	1	200 x 300	160,000		Same	Same	Div. St. Between A & B-Ave.
	CAR PARKING LOT - DIVISION STREET	1	200 x 800	180,000		Same	Same	Div. St. & B-Ave. & 5th St.
	TRUCK PARKING LOT	1	300 x 400	120,000		Same	Same	Division Street
	HEAVY EQUIPMENT PARKING LOT	1	200 x 300	60,000		Flood Lighting	Same	3rd Street West
TC 5	<u>MISC. WALKS - HANFORD CAMP</u>		400 ft. 50' Wide 200 ft. 35' Wide 100 ft. 25' Wide 8,300 ft. 20' Wide 4,200 ft. 12' Wide 38,000 ft. 10' Wide 2,700 ft. 8' Wide 11,800 ft. 4' Wide			Bituminous Surfacing "	Enclosed by Fences & Flood Lighting None None None None None None None None	4th & D-Avenue Hanford Camp Same Same Same Same Same Same Same Same
TC 6	<u>MISC. PLANT WIDE RAILROADS</u>					#6 Turn-Out, Used Rail & Hand Throw Switches	Dispatcher Bldgs., R.R. Maintenance Bldgs., & Telephone System	---
	HANFORD TO WHITE BLUFFS		33,687.26 Ft.					---
	RICHLAND		2,031.18 Ft.			Same	Same	---
	HAVEN PIT		3,209.78 Ft.			Same	Same	---

SHEET 1 OF 13 SHEETS

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**SECRET****BUILDING LIST - TEMPORARY CONSTRUCTION**

AREA WIDE - OUTSIDE SPECIFIC AREAS

CODE	NAME OF BUILDING	No. OF BUILDINGS	SIZE	AREA Sq. Ft.	VOLUME Cu. Ft.	TYPES OF CONSTRUCTION	FACILITIES INSTALLED	LOCATION
	R. R. AGGREGATE PIT		4,200 Ft.			#6 Turn-Out, Dead End & Hand Throw Switches	Dispatcher Bldgs., R.R. Maintenance Bldgs., & Telephone system	---
	MISCELLANEOUS TRACT		12,049.44 Ft.			Same	Same	---
	* NOTE: THE TOTALS SHOWN ON THIS SHEET ARE NOT AREA WIDE SUMMARY SHEETS AND FOLLOW NO AREA WIDE SUMMARY SHEETS DO NOT INCLUDE FIGURES SHOWN ON OTHER SHEETS FOR SAME TC FACILITIES.						KC-6 THROUGH KC-16.	
TC 7	PLANT WATER LINES, STORAGE TANKS & WELLS							
	WOOD BOOSTER STATION	1	18 x 21 x 12	378	4,536	Wood Frame, Gable Roof Bldg. Gypsum Siding	Lighting, Power, Telephone, Water & Heating, 1-Kloc. & 1-Gas Driven Pump. 1-10,000 Gal. Wood Stave Ground Storage Tank surrounded by 360' Type #1 Fence	W. of Yamina road barricade
	CHLORINATOR HOUSE	1	10 x 10 x 10	200	2000	Same	Lighting, Heating, Chlorinator	At McGee Well & on Cold Creek road
	WOOD ELEVATED STORAGE TANK	1	No Bldg. Structure	---	---	1-100,000 Wood Stave Water Tank set Approx. 10' Above Ground on Wood Dunnage	Water - Surrounded by 360' Type #1 Fence	On Cold Creek road - N. of 200-R Area
	ELEVATED R. R. WATER TANK	2	No Bldg. Structure	---	---	25,000 Gal. Wood Stave Water Tank set Approx. 25' Above Ground on Wood Frame Dunnage	Water	road Crossing at Cold Creek road & Hanford
	ALLARD COYOTE BOOSTER STATION	1	18 x 26 x 11	468	5,148	Wood Frame, Gable Roof Bldg. Gypsum Board Siding	Water, 1-125,000 Gal. Steel Ground Storage Tank, 2-Gasoline Driven Pumps Surrounded by 300' Type #1 Fence	West of Gable Butte
	ALLARD COYOTE CHLORINATOR HOUSE	1	10 x 10 x 9	100	900	Same	Chlorinator, Lighting, Heating	Same
	ALLARD COYOTE PUMP STATION (EXISTING)	1	30 x 65 x 35	1,950	68,250	Two Story Cone. Bldg. Throughout 1st Floor - Intake & Pump Section 2nd Floor Operating & Control Section	Lighting, Telephone, Heating, Water 2-450 HP Motors - 2-18000 GPM Pumps 1-750 HP Motor - 1-3000 GPM Pump (New Constr) 1-250 HP Motor - 1700 GPM Pump & Misc. Repairs	On Columbia River at Coyote Rapids
	WELL (EXISTING)	No Building Structure	---	---	4' x 4' Concrete Casing	Installed Elec. Driven Vertical Pump	S. of Jessen & Wright Concrete Block Plant	
	WELL #7 HANFORD	1	8 x 8 x 8	64	512	Wood Frame Gable Roof, Gypsum Board Siding	Power, Lighting, 1-Vertical Pump & Chlorinator	E. of 101 Bldg. Hanford
TC 8	ALLARD-COYOTE SUB-STATION (EXISTING)	1	10 x 20 x 18	200	3,800	Wood Frame Shed Covered with Corr. Sheet Iron	3-600 KVA Trans. P 69000/2300 V S	At Allard Coyote Pump Sta.
	TRANSFORMER BANK	1	10 x 20 No Building Structure	200	---	Open Framing Enclosed by Wood Fence	(1-75 KVA Trans. P 6900/440/220 S (2-60 KVA " P 6900/220/110 S	Jessen & Wright Cone. Block Plant, Route 1
	TRANSFORMER BANK	1	6 x 12	72	---	Elevated Open Framing	2-150 KVA " P 6900/440/220 S 1-75 KVA " P 6900/220/110 S	Friest Rapids Cold Stc. Plant
	SUBSTATION - PACIFIC POWER & LIGHT COMPANY	1	200 x 200	40,000	---	Open Framing with Transformers & Equip. Set on Cone. Pdms. Enclosed By Woven Wire Fence	3-3533 KVA Trans. P 115,000/66,000 V S 3-3000 KVA " P 115,000/66,000 V S 3-200 KVA " P 66,000/6900 V S	"A" Avenue - Hanford
	SWITCH HOUSE	1	24 x 54 x 20 & 24 x 32 x 0	2,064	53,800	Reinforced Cone. & Cone. Block Bldg.	Lighting, Power, Telephone, Water	P.P. & L. Lt. Co. Sub.Sta. Loc
	HENPCT GRAVEL PIT	1	10 x 20 No Building Structure	200	---	Open Framing Enclosed by Wooden Fence	1-200 KVA Trans. P 6900/220/110 S	2-Mi. S. W. of Hanford
	HANFORD GRAVEL PIT	1	20 x 30 No Building Structure	600	---	Same	2-353 KVA Trans. P 6900/440/220 V S 2-15 KVA " P 6900/320/110 V S	1-Mi. E. of Hanford
	101 FABRICATION BUILDING	1	20 x 30	600	---	Same	(1-25 KVA Trans. P 6900/220/110 V S (1-30 KVA " P 6900/220/110 V S (1-75 KVA " P 6900/220/110 V S (2-100 KVA " P 6900/440/110 V S (2-150 KVA " P 6900/440/220 V S	N. E. of Hanford

# BUILDING LIST - TEMPORARY CONSTRUCTION

AREA WIDE - OUTSIDE SPECIFIC AREAS

CODE	NAME OF BUILDING	No. OF BUILDINGS	SIZE	AREA Sq. Ft.	VOLUME Cu. Ft.	TYPES OF CONSTRUCTION	FACILITIES INSTALLED	LOCATION
TC 8	O. S. ELECTRIC LINES		30,360' Transmission Lines			3-#1/0 Copper Wire, Single Pole, Cross Arm & Pin Insulator	66,000 V Three Phase Switching Stations	From P.P. & L. Lgt. Co., KV Lines To 100-E, 100-E, 100-F, 200-E, & 200-W Areas
			12,000' Transmission Lines			3-#2 Copper Wire, Single Pole, Cross Arm & Pin Insulator	6900 V Three Phase Switching Stations	From 200-W Area to Central Shops & McGee Well
			40,000' Transmission Lines			3-#6 Copper Wire, Single Pole, Cross Arm & Pin Insulator	6900 V Three Phase	To McGee Well
			10,000' Transmission Lines			Same	Same	To Jenseen Wright & Plant
			10,000' Transmission Lines			4-#6 Copper Wire, Single Pole, Cross Arm & Pin Insulator	6900 V Three Phase	From Hanford to Newport Gravel Pit & to Haven Pit
			18,800' Transmission Lines			Same	Same	Same
			8,000' Transmission Lines			3-#6 Copper Wire, Single Pole, Cross Arm & Pin Insulator	6900 V Three Phase	From Hanford To Hanford Gravel Pit
			2,000' Transmission Lines			3-#6 Copper Wire, Single Pole, Cross Arm & Pin Insulator	900 V Three Phase	From Hanford to 101 Fabrication Area
TC 9	MISC. PLANT WIDE & HANFORD CAMP FENCES		108,310' Type #1			Type #1 Wood Post & Woven Wire Fencing 12' High With 6-Strands of Barb Wire on Top	Lighting	Hanford Camp Area
			10,000' Type #2			Type #1 Wood Post & Woven Wire With 4 Strands of Barb Wire 4'6" High	Lighting	Hanford Camp Area
			2,385' Type #2			Type #2 Fence	Lighting	Leaser Spur
			2,084' Type #1			Type #1 Fence	Lighting	Salvage Yard
			2,012' Type #2			Type #1 Fence	Same	Same
			2,000' Type #2			Type #2-8 Strands Barb Wire 4'6" High	Same	At N. Slope of Cable Mt. Opposite Radio Tower
			12,000' Type #2			Type #2 Fence - 8 Strands Barb Wire 8'0" High		2 Mi. West of Hanford
TC 10	LINE YARD OFFICE	1	20 x 64 x 10	1,080	10,800	Wood Frame, Gable Roof, Pre-Fab. Bldg.	Telephone, Heating	Allard Pole Yard
			20 x 48 x 10	920	8,200	Same	Heating	Same
			60 x 100 x 20 & 12 x 12 x 10 & 10 x 14 x 8	8,204	122,680	Wood Frame, Shed & Gable Roof Bldg., Post & Girder Construction, Lean-In-Office attached to E.E. & H.E. Corners	Lighting, Railroad Tracks, Telephone, Monowall System, Heating	Same
			60 x 100 x 20	8,000	100,000	Wood Frame, Gable Roof Barn (Added 2nd Floor and Stairs)	None	W. of White Bluffs
TC 10	LEASER SPUR		60 x 180 x 14 & 12 x 96 x 14	13,582	178,260	Wood Frame, Shed Roof Building, Post & Girder Construction	Lighting, Telephone, Heating	Leaser Spur
			20 x 60 x 12	1,200	14,400	Wood Frame, Gable Roof, Pre-Fab. Bldg.	None	Same
			20 x 40 x 14	1,200	14,400	Same	None	Same
			20 x 60 x 12	1,200	14,400	Same	None	Same
			20 x 36 x 12	640	7,680	Wood Frame, Gable Roof Building	None	Same
			18 x 36 x 8	380	3,480	Wood Frame Shed Roof Building	Lighting, Heating, Telephone	Same

# BUILDING LIST - TEMPORARY CONSTRUCTION

AREA WIDE - OFFICE SPECIFIC AREAS

CODE	NAME OF BUILDING	No. OF BUILDINGS	SIZE	AREA Sq. Ft.	VOLUME Cu. Ft.	TYPES OF CONSTRUCTION	FACILITIES INSTALLED	LOCATION
TC 10	BIGGER'S LOFT	1	15 x 30 x 9	450	6,000	Wood Frame Sheet Metal Building	Lighting, Heating, Telephone	Lower Spur
	ICE STORAGE PIT	1	200 x 300 x 12	100,000	1,200,000	Earth Excavation & Backfill, Ice Placed on 8 x 8 Wood Stringers	80,000 Tons of Ice Stored	Manford White Bluffs Road
	<u>SALVAGE YARD</u>							
	SALVAGE STORAGE HUTMENTS	9	22 x 48	9,504	82,000	Butler Sheet Metal Mission Type Barn	Lighting	Salvage Yard
	SALVAGE CHECK-IN WAREHOUSE	1	48 x 48 x 12	2,304	27,648	Wood Frame, Shed Roof Bldg., Post & Girder Construction, Gypsum Board Siding, Canvas Floor	Lighting, Telephone, Heating	Same
	SALVAGE LOADING DOCKS	2	16 x 80 x 6 & 16 x 20 Ramp 16 x 33 x 6			Wood Framing and Decking	None	Same
	SALVAGE PARTS OFFICE (Existing Residence)	1	27 x 30 x 10	810	8,100	2-Story Frame Sheds Connected by Shed Roofs. (Remodeled & Sheds Added)	Lighting, Heating, Telephone	Same
	SALVAGE PARTS WAREHOUSE (Existing Sheds)	1	30 x 70 x 9	8,100	18,200	Wood Frame Gable Roof Building (One Room Added & Facilities)	Lighting None	Same
	MISCELLANEOUS WAREHOUSE	1	24 x 100 x 16	2,600	32,400	Wood Frame, Gable Roof Building	None	Sheep Ranch
	DOG POUND (Existing Barn)	1	24 x 36 x 20	840	18,800	Concrete and Wood Frame Building (Concrete Floor, Pins & Facilities Added)	Lighting, Heating	1 1/2 Miles W. of Hanford
TC 10	<u>MACHINE GUN RANGE</u>							
	CLUB HOUSE	1	40 x 72 x 11	2,880	31,680	Wood Frame, Gable Roof Building, Gypsum Board Siding	Lighting, Water, Heating	At North Slope of Gable Mt. Opposite Radio Tower
	PISTOL RANGE	1	200 x 250	50,000	—	Oiled Gravel & Sand Rolled Surface	Target and Stands	Same
	MACHINE GUN RANGE	1	200 x 250	50,000	—	Same as Above	Moving Targets	Same
	TOMMY GUN RANGE	1	200 x 200	40,000	—	—	Same	Same
TC 10	<u>HANFORD HOUSING WAREHOUSE AREA</u>							
	FURNITURE WAREHOUSES	3	36 x 200 x 10	7,200	72,000	Wood Frame Gable Roof Bldg. Covered with Seal-Draft Paper	None	West of 101 Bldg. White Bluffs Road
	FURNITURE WAREHOUSES	7	16 x 80 x 8	1,280	10,240	Wood Frame Gable Roof, Canvas Covered	None	Same
	FURNITURE OFFICE	1	12 x 16 x 9	192	1,728	Wood Frame Gable Roof Building	Telephone, Lighting, Heating	Same
TC 10	<u>HANFORD CAMP AREA</u>							
	CARPENTER ORIENTATION BUILDING	1	20 x 120 x 10	2,400	24,000	Wood Frame Gable Roof, Prefab. Building	Lighting, Heating	West 4th Street
	DIVISION LAIR & SAFETY OFFICE	1	18 x 48 x 10	768	7,880	Prefab., Wood Frame, Gable Roof Bldg.	Lighting, Heating and Telephone	West 2nd Street
	PATROL & TRAFFIC HUT	1	16 x 40	640	5,760	Pacific Hut	Lighting, Heating and Telephone	East of N.R. Station-Hanford
	SAFETY SHOE STORAGE BUILDING	1	20 x 96 x 10	1,920	19,200	Wood Frame, Gable Roof, Prefab., Building	Same	Same
	TRAIN CREW HUT	1	16 x 40	640	5,760	Pacific Hut	Same	Same
	UTILITY CRAFT SHOPS	4	40x 80	12,800	200,960	Butler Sheet Metal & Steel Frame Barts	Lighting, Power, Steam Heat, Water, Telephones	"A" Ave. & 1st Street
	SUPT. HANFORD CAMP OFFICE	1	16 x 48 x 9	768	6,912	Wood Frame, Gable Roof, Prefab., Bldg.	Lighting, Heating, Telephones	"A" Ave. & 2nd Street
	DIVISION ENGRS. STORAGE HUT	1	16 x 80	1,280	11,520	Pacific Hut	Lighting	By Bolin's Office
TC 10	FIRE INSPECTION DEPT. BUILDING	1	16 x 40 x 10	640	6,400	Wood Frame, Gable Roof Prefab., Building	Lighting, Heating, Telephone, Air Cooling and Water	"B" Avenue & 1st Street
	RED CROSS HUTMENTS	2	1-16x 48 x 10 1-16 x 64 x 10	1,792	17,920	Wood Frame Gable Roof Prefab., Buildings	Lighting, Heating	1- 3rd St. West 1- 1st. Between B & C Ave.

# BUILDING LIST - TEMPORARY CONSTRUCTION

AREA WIDE - OUTSIDE SPECIFIC AREAS

SHEETS 15 OF 15 SHEETS

CODE	NAME OF BUILDING	No. Of BUILDINGS	SIZE	AREA Sq. Ft.	VOLUME Cu. Ft.	TYPES OF CONSTRUCTION	FACILITIES INSTALLED	LOCATION
TC 10	RADIO TRANSMITTER HOUSE	1	16 x 20 x 10	320	3,200	Wood Frame, Gable Roof Building	Lighting, Heating, Telephone, Radio Transmission Equipment	Gable Mountain
	INSTRUMENT WAREHOUSE	1	30 x 78 x 10	2,280	22,800	Wood Frame, Shad Roof Bldg., Post & Girder Construction, Gypsum Board Siding	Lighting	A - Avenue - Hanford
	INSTRUMENT BUILDING	1	50 x 80 & 30 x 70 & 17 x 10 Clg. Ave. 12'	6,270	78,240	Wood Frame, Gable Roof Bldg., Post & Girder Const. Lean-To attached to E. Side Gypsum Bldg	Lighting, Steam Heat, Water, Telephone, Toilet & Washroom Facilities	A - Avenue - Hanford
	BOYS' WORK BUD	1	16 x 40	640	6,760	Pacific Hut	Lighting, Heating	West 3rd Street
	OLYMPIC COMMISSARY OFFICES	8	4 - 16 x 30 2 - 16 x 40 1 - 22 x 48 1 - 16 x 64 x 10	8,120 2,112 1,056 1,024	44,080 11,828 8,120 10,240	6 - Pacific Huts 1 - Butler Sheetmetal Hut Same 1 - Wood Frame, Gable Roof Prefab., Bldg.	Lighting, Power, Telephone, Water, Air Cooling, Heating	B-Avenue & 2nd Street
	AMERICAN RAILWAY EXPRESS OFFICE	1	44 x 98 x 10	1,834	18,360	Wood Frame, Gable Roof, Prefab., Bldg.	Lighting, Heating, Telephone	On West 2nd Street
	SAFETY OFFICES & EQUIP. STORAGE BUDS	3	16 x 40	1,920	17,280	Pacific Huts	Lighting, Air Cooling, Telephone	Division St. & A-Avenue
	BOYS' WORK BUDS	2	22 x 48 (1) 16 x 40 (1)	1,696	14,360	1 - Pacific Wood 1 - Butler Sheet Metal	Lighting	In School Yard
	MAC POST EXCHANGE	1	16 x 40	640	2,760	Pacific Hut	Lighting, Heating, Water, Toilet & Washroom Facilities	1st & B-Avenue
	COAL TIPPLER	2	16 x 22 x 32 High	704	---	Concrete Foundation, Wood Frame, Elevated Bunker	None	1 - At Hanford 1 - At Richland
	HANFORD FERRY	1	---	---	---	2 - Ferry Boats, Railings, Fence & Guard Post Buildings	Lighting	At Hanford
	TRUCK SCALE & COAL HOUSE	1	8 x 10 x 7	80	560	Wood Frame, Shad Roof Building	1 - 30 ton Pit Truck Scale	"D" Avenue & West 5th St.
	CHEMICAL STORAGE WAREHOUSE	1	30 x 80 x 10	1,800	18,000	Wood Frame, Shad Roof, Post & Girder Construction with 8' Leading Platform on South & East Sides	Heating	Honey Hill on Road 4-N Mile 2
	CAN STEAM PLATFORM	1	60 x 20 x 4' High	1,200	---	Wood Frame Decking	Steam	Same
	PLATFORMS	2	18 x 20 x 4' High	640	---	Same	None	Same
	UTILITIES DIVISION ENGINEER'S OFFICE	1	2 Wings - 16 x 48 x 10 & 1 Corridor - 16 x 32 x 10	2,816	28,160	3 - Wood Frame, Gable Roof Prefab., Bldg. Connected by Center Corridor	Lighting, Steam Heating, Water, Toilet & Washroom Facilities, Telephones	A-Ave. North of Admin. Bldg.
	WATER SANITATION LOT	1	800' x 150'	30,000	---	Stabilized & Enclosed by Type #1 Fence	Water, Lighting	A-Ave. & 5th Street
	WOOD PLATFORM FOR BARRELS	1	40 x 40	1,600	---	Wood Platform Laid on Stringers	Water	A-Ave. & 5th Street
	OFFICE	1	12 x 16 x 8	1,536	12,288	Wood Frame, Shad Roof	Lighting	Same
	ICE HOUSE	1	14 x 16 x 10	224	2,240	Wood Frame, Gable Roof - 8' Above Ground	Lighting	Same
	GARAGE CAN STREAMING SHED	1	30 x 30 x 12	900	10,800	Wood Frame, Open Shed Platform Building	Steam, Water, Lighting	At #8 Settling Basin Hanford Camp - A - Avenue
	ZINC CAN SALVAGE SHED	1	40 x 16 x 10	640	6,400	Shed	Steam	Same
	ZINC CAN SALVAGE YARD	1	50 x 130	6,500	---	Stabilized & Closed by Type #2 Fence	None	Division Engineer's Office
	JANITOR'S BUDGET	1	16 x 40	640	6,760	Pacific Hut	Lighting	West of Div. & A-Avenue
	YOUTH ACTIVITY WORK BUDS	2	22 x 48	2,112	16,240	Butler Sheet Metal Mission Type Huts	Lighting, Heating	Same
	BATH HOUSE	1	40 x 100 x 10	4,000	40,000	Wood Frame, Shad Roof Bldg. Post & Girder Construction, Concrete Floor, Partial Roof	Water, Showers, Shelving	Water Replenishing Basin

~~SECRET~~  
BUILDING LIST - TEMPORARY CONSTRUCTION

AREA WIDE - OUTSIDE SPECIFIED AREAS

CODE	NAME OF BUILDING	No. OF BUILDINGS	SIZE	AREA Sq. Ft.	VOLUME Cu. Ft.	TYPES OF CONSTRUCTION	FACILITIES INSTALLED	LOCATION
TC 10	SUB SHELTERS	2	30 x 30 x 9	1,800	16,200	Wood Frame Construction, Sisal Kraft Paper Roof	None	Water Replenishing Basin
	CHLORINATOR HOUSE	1	12 x 18 x 8	144	1,182	Wood Frame Shed Roof Bldg.	Chlorinator	Same
	HOSPITAL EQUIPMENT BUDS	2	16 x 40	1,280	11,620	Pacific Huts	None	East of Convalescent
	RATION OFFICE	1	16 x 40	640	8,760	Same	None	1 - 5th & B Avenue
	GARBAGE DISPOSAL PLATFORMS	5	(2 - 16 x 80 (2 - 20 x 20 (1 - 30 x 30	2,340	---	Wood Frame & Decked - 4' High	Lighting, Steam	6th & C Avenue
	LINEMEN'S BARRACKS	7	22 x 48	7,362	63,640	Butler Sheet Metal Hut	Lighting, Heating	East of Hanford Camp;
	MISCELLANEOUS SHACKLES, TOOL BOXES, ETC., NOT INCLUDED ON OTHER LISTS							Midway Substation
TC 10	FIELD OFFICES	8	4 x 6 x 8	120	960			Area Wide
		10	8 x 6 x 8	360	3,840			Same
		1	8 x 6 x 10	36	360			Same
		1	8 x 8 x 8	48	384			Same
		40	8 x 10 x 8	8,200	26,800			Same
		10	8 x 12 x 8	960	7,680			Same
		10	10 x 12 x 8	1,200	9,600			Same
		1	10 x 14 x 8	140	1,120			Same
		1	10 x 16 x 8	160	1,280			Same
		1	12 x 12 x 8	144	1,152			Same
		1	18 x 20 x 7	320	2,240			Same
	CLOCK ALLEYS	10	8 x 10 x 8	800	6,400			Same
	TOOL BOXES	329	4 x 7 x 4	4,200	16,800			Same
	TOILETS	187	8 x 10 x 8	10,960	87,680			Same
TC 12	GREASE RACKS	30	4 x 4 x 6	480	3,840			Same
	IGE BOXES	2	18 x 24 x 6	384	2,304			Same
	EMPLOYEES' RECREATIONAL FACILITIES	26	4 x 8 x 6	600	3,600			Same
	BASKETBALL DIAMONDS	2	350 x 350	246,000	---	1-Grassed Diamond & Bleacher Enclosed By Type #2 Fences 1 Compacted Earth	Wood Bleachers, Backstop, Water, Flood Lighting, Soft Drink Stand	6th and "D" Avenue
	SOFT BALL DIAMONDS	9	(4 - 650 x 650 (4 - 350 x 600 (1 - 300 x 250	837,600	---	Compacted Earth	Backstop	6th and "B" Avenue
	TRIMBLE COURTS	4						SW Corner Main Trailer Camp
	OUTDOOR BASKETBALL COURTS	6	60 x 100	30,000	---	Compacted Earth	Back Board	Athletic Field
	HORSESHOE COURTS	144				Same	Backstops & Pits	Hanford Camp Area
								Hanford Camp Area

# BUILDING LIST - TEMPORARY CONSTRUCTION

AREA WIDE - OUTSIDE SPECIFIC AREAS

CODE	NAME OF BUILDING	No. Of BUILDINGS	SIZE	AREA Sq. Ft.	VOLUME Cu. Ft.	TYPES OF CONSTRUCTION	FACILITIES INSTALLED	LOCATION
TC 12	PICNIC GROUNDS	1	Approx. 3 Acres			—	Tables, Benches, Fire-Places, Toilets, Water Barrels	On Bank Columbia River 1 Mile N. of Ferry Landing
	BATHING BEACH	1	100 x 180	18,000	—	—	Wood Walkway & Fleets	On Columbia River W. of P. P. & L. Lgt. Co. Substation
	LIBRARY	1	20 x 48 x 10	960	9,600	Wood Frame, Gable Roof Prefab., Bldg.	Lighting, Steam Heat	4th Street West
	COMMUNITY BUILDING (Rehab. Masonic Hall)	1	30 x 90 x 18	1,800	27,000	Concrete Block, Con. Basement & Foundation Wood Frame, Gable Roof	Lighting, Heating, Water, Cooking Pcs., Toilet & Washroom Facilities	Same
	RECREATION HALLS	2	(2 - Wings 30 x 147 x 11 ft. (20 x 48 x 11 Pav. 30 x 120 (4-Wings 30 x 142 x 11 ft. (20 x 88 x 11 (Pav. 30 x 60	10,200 8,000 19,800 215,400	112,200 — —	Woman's Barracks 11-A & B Converted With Con. Basins Pavilion Between Wings Colored Men's Barrack 201 Converted With Con. Basins Pavilion Between Wings	Power, Light, Air Cooling, Water, Steam Heat, Telephone, Toilet & Wash Room Pcs.	Same
TC 14	HANFORD AIRPORT			8,000	—	—	—	—
	RUNWAYS	2	1-800 x 2400 1-800 x 4000	480,000 320,000	—	Oiled Gravel and Sand-Rolled 6" Thick, Field Enclosed by Type #4 Fence	Gas Pump and Storage Tanks, Power	1-Mile West of Hanford
	HANGARS	2	16 x 40 & 12 x 12 (10' Hgt.)	1,880	15,680	Wood Frame, Open Shed, T-Shaped	None	Same
	OFFICE	1	16 x 40 x 8	640	8,760	Pacific Hut	Lighting, Heating	Same
TC 16	PLANT WIDE STEAM LINES & BOILER HOUSES					—	—	—
	NO. 1 BOILER HOUSE	1	48 x 62 x 48 8 x 8 x 48 ft. 8 x 18 x 48	2,896	124,800	4-Story Wood Frame & Truss Roof Bldg. Con. 1st & Operating Floor, Wood Shingles Covered With Tar Paper	Lighting, Power, Water, Telephone, Heating, Toilet & Washroom Facilities, 2-250 HP 4- Burn Boilers & Accessory Equip. 2-44,000 Gal. Blow. Wood Stove Water Storage Tank, 1-45" / Sheet Iron Stack	Hanford Camp
	8 - STACK BOILER HOUSES	8	30 x 98 x 18 ft. 30 x 76 x 18	18,000	254,400	Wood Frame Shed Roof Bldg., Post & Girder Concrete, Gypsum Board Siding, Con. Equip., Foundations, With Wood Stump & Coal Bunker Along One Side, 10-100 H.P. E.R.T. Boilers & Wood Stove Water Storage Tank	Lighting, Water, Power, Steam, 8-100 HP E.R.T. Boilers	Hanford Camp
	7 - STACK BOILER HOUSES	7	30 x 98 x 18 ft. 10 x 76 x 8	6,000	88,000	None	None - 7-100 H.P. Boilers	Hanford Camp
	6 - STACK BOILER HOUSES	7	30 x 76 x 18 ft. 10 x 60 x 8	14,700	221,400	None	None - 6-100 H.P. Boilers	Same
	8 - STACK BOILER HOUSES	8	30 x 98 x 18 ft. 10 x 80 x 8	6,400	96,000	None	None - 8-100 H.P. Boilers	1-101 Building 1-Hanford Camp
	1 - STACK BOILER HOUSE	1	60 x 45 x 18 ft. 10 x 80 x 8	8,100	36,000	None	None - 2-250 H.P. Boiler	Hanford Camp
TC 18	BOILER HOUSE	1	18 x 14 x 12	100	1,014	Wood Frame, Slab Roof Bldg.	1-62 E.P. Boiler, Steel & Wood, Water Storage Tanks	Haney Hill, Route 4B M-2
	BOILER HOUSE	1	18 x 24 x 18	452	5,144	Wood Frame Gable Roof Bldg.	1-62 E.P. Vertical Boiler & Steel Water Storage Tanks	—
	STEAM LINES	4,280 15,300 27,700 67,700 55,000 30,700	10" 6" 8" 6" 6" 6" 4" 6" 3" 6" 2" 6"			Welded & Flanged, SCH #40 Steel Pipe on Universal Union Pipe Supports With Suspension Brackets & Traps. Covered With Asbestos & Magnesia Insulation	None	Hanford Camp Area
TC 18	TELEPHONE LINES	4	Richland			Spliced Lead Cable, Open Iron Wire & Insulated Pair	Approx. 875 Telephones & Single Lines with Approx. 2000 Extentions. Manually Operated Switch Boards	Hanford Camp
		4	Olive					

**SECRET****BUILDING LIST - TEMPORARY CONSTRUCTION**

AREA CODE = OUTSIDE REPORTING AREA

CODE	NAME OF BUILDING	No. OF BUILDINGS	SIZE	AREA Sq. Ft.	VOLUME Cu. Ft.	TYPES OF CONSTRUCTION	FACILITIES INSTALLED	LOCATION
TC 16	TELEPHONE LINES	4	Spruce			(See Previous Page)	(See Previous Page)	Manford Camp
		2	Spruce					
		2	Pine					
		2	Maple					
		15	Manford					
		6	Cold Creek					
		20	Total Trunk Lines					
TC 17	TELEPHONE REPEATER STATION	1	8 x 8 x 8	64	612	Concrete and Concrete Block	Lighting, Telephone Equipment	300 Area
TC 20	ADMINISTRATION & OFFICER QUARTERS	1	30 x 120 x 10	3,600	36,000	Wood Frame, Cable Roof Prefab., Bldg., Drop Siding	Heating, Steam, Water, Telephone, Lighting, Toilet & Washroom Facilities	Columbia River Camp
	INFIRMARY & OFFICER QUARTERS	1	30 x 120 x 10	3,600	36,000	Same	Same	Same
	RECREATION BUILDING (PREPAR.)	1	30 x 120 x 10	3,600	48,000	Same	Heating, Lighting, Water	Same
	BARRACKS	8	30 x 120 x 10	14,400	128,000	Same	Heating, Lighting, Water, Toilet & Washroom Facilities	Same
	BARRACK BLDG. (80')	4	10 x 120	1,920	17,280	Pacific Rate	Same	Same
	TENT BARRACKS	6	80 x 80	3,840	---	Wood Floor & Side Walls, Pyramidal Canvas Tops	Lighting, Heating	Same
	KITCHEN HALL AND SUPPLY ROOM	2-Blind 1-Blind	80 x 120 x 10 80 x 120 x 10	7,680	72,000	H-Shaped Wood Frame Cable Roof Prefab., Bldg., Drop Siding Conn. Floor in Kitchen	Lighting, Power, Water, Heating, Steam	Same
	BOILER HOUSE	1	10 x 12 x 10	120	1,200	Wood Frame, Shed Roof Building	Water, Lighting	Same
	PUMP HOUSE	1	10 x 20 x 8	200	1,800	Wood Frame, Shed Roof Building	Power, Lighting, Water	Same
	ELEVATED STORAGE TANKS	2	1-6,000 Gal. 1-1,000 Gal.			Wood Stave Tanks and Wood Frame Towers	Water	Same
	GARAGE & STORAGE SHED	1	30 x 120 x 10	2,400	21,600	Wood Frame, Cable Roof Prefab., Bldg.	Lighting	Same
	CARPENTER & WORK SHOP (PREPAR.)	1	30 x 90 x 10	1,800	18,000	Same	Lighting, Power, Heating	Same
	OFFICERS' RESIDENCE	12	22 x 68	12,872	108,440	Sheet Metal Butler Rate	Water, Light, Heat, Power, Toilet & Washroom Facilities	Same
	PREFABRICATED HOUSES	10	24 x 24 x 8	6,760	48,000	I-Section Plywood Houses, Flat Roof Wood Foundations	Lighting, Electric Heating, Water, Plumbing, Partition	Same
	RECREATION BLDG. FOR RES.	1	16 x 40	640	8,760	Pacific Rat	Lighting, Heating	Same
NOTE: THE ABOVE BUILDINGS, ELECTRICAL MATERIAL, PIPING, EQUIPMENT & MATERIAL FOR PACIFIC COAST WERE FURNISHED BY DU POST. ALL LABOR INVOLVED IN CONSTRUCTION WAS FURNISHED ON A SEPARATE CONTRACT NEGOTIATED BY THE GOVERNMENT.								

~~SECRET~~

**BUILDING LIST - TEMPORARY CONSTRUCTION**

WANFORD CAMP AREA

**SECRET**

## BUILDING LIST - TEMPORARY CONSTRUCTION

HANFORD CAMP AREA

CODE	NAME OF BUILDING	No. Of BUILDINGS	SIZE	AREA Sq. Ft.	VOLUME Cu. Ft.	TYPES OF CONSTRUCTION	FACILITIES INSTALLED	LOCATION
TG 4.8	ELECTRIC LINES	9,200'	#4/0 Copper Wire			Single Pole, Pin Insulation, Configuration 2-Wire Comst. Carrying 66,000 Volts		Hanford Camp
		125,700'	#6 Copper Wire			Single Pole, Single Cross Arm, Pin Insulator Comst. Carrying 6600 V		Same
		58,200'	#4 Copper Wire			Single Pole, Single Cross Arm, Pin Insulator Comst. Carrying 2300 V		Same
		150,200'	#6 Copper Wire			Single Pole, Single Cross Arm, Pin Insulator Comst. Carrying 6600 V or 220/110 V	Road and Fence Lights	Same
NOTE: THE ABOVE TOTAL ONLY INCLUDES FINAL INSTALLATION AT HANFORD CAMP.								
TC 4.8	SEWER, SEPTIC TANKS & SEWAGE TREATMENT PLANTS							
	SEWER LINES	2,060'	30" dia.			Vit. Clay & Cone. Pipe with Cone. Joints	Manholes	Hanford Camp
		2,800'	24" dia.			Same		Same
		4,000'	18" dia.			Same		Same
		16,750'	18" dia.			Same		Same
		21,850'	12" dia.			Same		Same
		28,450'	10" dia.			Same		Same
		23,400'	8" dia.			Same		Same
		115,950'	6" dia.			Same		Same
		2,000'	4" dia.			Same		Same
	SEPTIC TANKS	18	14' x 32' x 8'	5,824	46,592	Type #1 Wood Frame & Sided Box with Baffles Burried 6" Below Ground Level	Barricades & Vents	
		8	18' x 44' x 10'	8,336	63,360	Type #2 Same		Same
		9	20' x 50' x 10'	9,000	90,000	Type #3 Same		Same
TC 4.9	GREASE TRAPS	2	8' x 18' x 8'	140	1,120	Type #4 Same		Same
		1	18' x 42' x 10'	756	7,560	Type #5 Same		Same
		10	14' x 36' x 10'	7,560	75,600	Type #6 Same		Same
		32	24' x 40' x 10'	46,080	460,800	Type #7 Same		Same
		3	18' x 22' x 8'	804	6,432	Type #8 Same		Same
	SEWAGE LIFT SUMPS	2	4' x 8' x 6'	288	1,728	Type #9 Wood Frame & Sided Box with Baffles Burried to Ground Level		At Mess Halls & Commissary Buildings
	CHLORINATOR HOUSES	2	4' x 16' x 6'	256	1,536	Type #10 Same		Same
	CHLORINE CONTACT TANKS	2	6' x 6' x 10'	108	1,080	Wood Frame & Sided Box		
	SETTLING PONDS	2	18' x 20' x 6'	260	1,300	Wood Frame Gable Roof Building (Cone. & Wood Frame Box with Weirs)	Lighting, Heating, Chlorinator	"A" Ave. betw. 4th & 10th Sts.
	SETTLING PIT	1	20' x 20' x 6'	400	2,400	Wood Frame Box 1" Below Ground Level (Reinforced Open Cone. Pit Built Below)	Chlorine Line	Same
TC 4.9	FLOCCULATOR	2	16' x 36' x 20'	1,788	35,760	(Ground Level	Open Basin Surrounded by Earth Dye, & Wood Outlet Boxes & Plumes	None
	FLOCCULATOR HOUSES	2	8' x 8' x 8'	144	1,152	Light, Air, Plumes, Railings, Walkways	Power, Lighting, Air Compressor	Same
	MISCELLANEOUS TC - HANFORD CAMP							
	ME-6 WAREHOUSE (Existing Ware)	2	1-65 x 130 x 11 1-110 x 140 x 9	8,450 15,400	92,950 136,800	Wood Frame, Shed Roof Bldg. Post & Girder Comsts. Partial Concrete Foundn. in Basement 9" Deep	Lighting, Heating, Telephone, Water Shelving, Miscellaneous Remodeling	No. of "A" Ave. b/w C. L. & R. Company
	GAS STATION & OFFICES	4	1-Building Structure 18' x 24' x 10	588	3,860	2 Kloc. Driven Pumps, Undergr. Storage Tanks 6 Kloc. Driven Pumps, Undergr. Storage Tanks 1 Kloc. Driven Pumps, Undergr. Storage Tanks 1 Kloc. Driven Pumps, Undergr. Storage Tanks	Lighting, Water, Heating, Air, Power	Division Street & C-Ave. bus parking lot Hanford Rec. & Unload Lot Major Equip. Storage Yard

**SECRET**

## BUILDING

## LIST - TEMPORARY CONSTRUCTION

RAIFORD CAMP AREA

CODE	NAME OF BUILDING	No. OF BUILDINGS	SIZE	AREA Sq. Ft.	VOLUME Cu. Ft.	TYPES OF CONSTRUCTION	FACILITIES INSTALLED	LOCATION
	BL. D. & LOGO PRE-FAB.	1	18 x 40 x 10	720	7,200	Wood Frame, Gable Roof, Pre-fab. Blg. (Building Cons. Block, Sand-Cable Frame (Sheet Metal, Cons. Plaster-Lined 48 x 90 Sand)	Lighting, Telephone, Heating, Air Cooling, Water, Lighting, Power, Water, Steam, Air,	Anderson - West of River, Wmst.
	RAIFORD ENGINE & TIRE SERVICE	1	40 x 40 x 14	1,600	12,400	(Cable Frame Truss Roof, Gyp. M. Siding - Wood Decking Laid on Stringers/ Cons. Pl.)	Heating, Telephone	Div. St. & Laundry
	PLATEFORM	1	40 x 40	1,600	—	Wood Decking Laid on Stringers/ Cons. Pl.)	Lighting, Air	West Side of Garage
	MECHANIC'S BENCH BUILDING	1	30 x 40 x 14	1,200	8,400	Wood Frame, Sheet Metal Roof, Post & Girder Cons.	Lighting & Air	North of Raiford Garage
	DISPATCHER'S OFFICE	1	11 - 30' x 30' x 8' 11 - 30' x 30' x 8'	3,600	18,600	Wood Frame, Gable Roof, Gyp. M. Siding, Wood Frame, Sheet Metal Building	Lighting, Phone Booth, Telephone	Power Utility Office Rm. 1, Bus. Lot
	SUPPLY & LABORATORY OFFICES (Raiford)	1	20 x 40 x 18 x 8' x 10'	2,880	18,800	Wood Frame, Gable Roof Siding; with Louvered on South Side	Lighting, Heating, Telephone, Water, and Miscellaneous Remodeling	Division St. - Below Annex
	RAIFORD STATION STORE (Raiford Annex)	1	18 x 30 x 14	540	5,080	Wood Frame, Gable Roof Building	Lighting, Heating, Telephone, Miscellaneous Remodeling	West 2nd Street
	SUPPLY STORE BLDG. (Raiford)	1	20 x 40 x 14	1,600	11,000	Wood Frame, Gable Roof Store Building	Lighting, Heating, Telephone, Toilet & Washroom Facilities, Shelving, Bars, Bench	3rd Street
	RAIFORD PERSONNEL DEPT. (Building U.S. Passenger Station)	1	20 x 40 x 14	1,600	20,700	Wood Frame Gable Roof Building	Lighting, Telephone, Water, Toilet & Washroom Facilities. (Small Remodeling Work Only)	R. of 2d Ave.
	CLOTHING STORAGE BUILDING	1	10 x 18 x 10	180	1,800	Wood Framing, Sheet Metal, Open Slatte	None	R. of 2d Ave.
	PIPE RECEIVING PIT	1	20 x 40	800	16,800	Brick, Sheet Metal, Various Types Steel	Lighting	R. of 2d Ave.
	SH-12 TACKROOM (Raiford)	1	18 x 40 x 8	720	720	Wood Frame, Gable Roof Pre-fab. Blg.	Lighting	None
	RAIFORD KITCHEN & CLOSET LOFT	1	180' x 18' x 8'	8,400	81,600	Wood Frame, Sheet Metal Building	Lighting, Telephone, Heating	2d Annex
	STYLING STORAGE BUILDING	1	40 x 10 x 12	480	6,400	Wood Frame, Sheet Metal, Open Slatte	None	At Raiford Depot
	RAIFORD TIRE OFFICE	1	18 x 30 x 10	480	4,800	Wood Frame, Sheet Metal Blg. Plywood Board Siding	Lighting, Telephone, Heating	R. of 2d Raiford Depot
	PIPE RECEIVING OFFICE	1	20 x 30 x 10	600	6,000	Wood Frame, Gable Roof, Pre-fab. Blg.	Lighting, Heating	R. of Pipe Office
	RAIFORD REC. & TOOL ROOM	1	80' x 180' x 18'	14,400	138,000	Wood Frame, Gable Roof Bldg. Post & Girder Cons.	Lighting, Heating, Telephone, Water	R. of Raiford Depot
	MECHANICAL BLDG. OFFICE	1	80' x 80' x 10'	640	6,400	Wood Frame, Gable Roof, Pre-fab. Blg.	Lighting, Telephone, Heating	R.R. of Boiler House #1
	DEAL STORAGE TANK	1	800 x 800	640,000	—	Stabilized Area	Wood Frame, Insulating Material, Fixed Lighting	2d Avenue - Raiford
	CARGO RECEIVING CONCRETE OFFICE	1	18 x 40 x 8	600	6,840	Wood Frame, Sheet Metal Building	Heating, Telephone, Lighting	None
	LUMBERYARD OFFICE	1	40 x 40 x 12	600	6,600	Wood Frame, Gable Roof, Open Porch on Outside	Lighting, Heating, Telephone	None
	MATERIAL STORAGE BLDG.	1	18 x 40	1,200	11,200	Post/Pile Blt	Lighting	Division Engineer's Office
	IRON ABLUTION	1	20 x 30 x 10	600	10,800	Wood Frame, Gable Roof, Open Slatte	None	Raiford Camp
TC 4-2	RECYCL METAL BLDG.	1	20 x 40 x 10	8,400	24,000	Wood Frame, Gable Roof, Gable Roof, Post & Girder Construction	Power, Lighting, Heating	R. of Boiler House #1
	RECYCL. BLDG.	1	20 x 40 x 8	800	7,200	Wood Frame, Gable Roof	Lighting, Heating, Purge	None
	RAIFORD ROOF STORAGE PLATFROM	1	40 x 100	4,000	—	Wood Material Storage Platform	Lighting, Power, Heating	None
	COLLECTOR BLDG.	1	20 x 40 x 6	800	6,840	Wood Frame, Sheet Metal Building	Lighting, Power, Heating	None
	RAIFORD BLDG.	1	40 x 40 x 11	1,600	18,160	Wood Frame, Lean-To Roof building on West Side, Sheet Metal of Existing Blg. Cons. Founda. & Plywood Slat	Power, Lighting, Heating, Water	None
	SCRAPS BLDG. (Raiford Annex)	1	20 x 70 x 21	1,200	14,400	Wood Frame, Gable Roof Blg. Cinder Floor	Power, Lighting, Telephone, Heating, Purge, Water, Air	East of Utility Office

# BUILDING LIST - TEMPORARY CONSTRUCTION

HANFORD CAMP AREA

CODE	NAME OF BUILDING	No. OF BUILDINGS	SIZE	AREA Sq. Ft.	VOLUME Cu. Ft.	TYPES OF CONSTRUCTION	FACILITIES INSTALLED	LOCATION
	EQUIPMENT STORAGE BUILDING	3	10' x 16' x 8' 20' x 24' x 8' 10' x 14' x 8'	780	8,240	Wood Frame, Shed Roof Building	Lighting	N. of Boiler Repair Shop
	UTILITY STORAGE BUILDINGS	3	1-18' x 60' x 9' 1-80' x 64' x 10' 1-16' x 30' x 8'	3,300	31,140	Wood Frame, Shed Roof Bldg. Larger Bldg. Open on One Side	Lighting & Power	North of Utility Shops
	RAN SHELTERS	7	12' x 30' x 8'	1,680	18,480	Wood Frame, Gable Roof, Open Shed Bldg.	Lighting & Power	
	LUMBER FAB. & STORAGE YARD	2	1-800' x 800' 1-800' x 1000'	480,000	—	Stabilized	Railroad Spur, Flood Lighting, Telephone	Lumber Fab. Yard, N. of "A" Avenue
	SAFETY EQUIP. STORAGE BUILDING (Rehab. Rec.)	1	14' x 20' x 14'	280	8,280	Wood Frame, Gable Roof, 2 Story Bldg.	None - Minor Remodeling	N. of "A" Avenue
	TEMPORARY CONCRETE PLANT	1	Ex. Building Structure 200' x 200'	40,000	—	Stabilized Area	Water, Steam, 2 Mobile Concrete Mixers	East 3rd Street
	GARAGE ( CONCRETE TRUCKS )	1	20' x 30' x 12'	600	7,200	Wood Frame, Shed Roof Bldg. One Side Open	Lighting	N. of Evaporation Bldg.
	DIVISION ENGINEER'S OFFICE HANFORD CAMP (Rehab. Rec.)	1	32' x 40' x 20'	1,280	28,800	2-Story Wood Frame, Gable Roof Bldg. with Concrete Foundations and basement	Lighting, Telephone, Heating, Water, Toilet and Washroom Facilities, General Remodeling Work	Same
	AREA LABOR OFFICE (Rehab.)	1	18' x 32' x 10'	576	6,768	Wood Frame, Gable Roof Bldg.	Lighting, Heating, Telephone	7th Street and "B" Avenue
	HANFORD MAJOR EQUIPMENT GARAGE & OFFICE	2	1-80' x 20' x 12' 1-18' x 14' x 8'	1,192	13,584	Wood Frame, Shed Roof Bldg. Open Front Wood Frame, Gable Roof Bldg.	Lighting, Power, Telephone	4th Street and "C" Avenue
	MAIN CLOCK ALLEY	1	100' x 18' x 9'	1,800	18,000	Wood Frame, Gable Roof Partially Open Shed Side	Lighting, Heating	"A" Avenue
	ORIGINAL MAIN CLOCK ALLEY	1	120' x 20' x 10'	2,400	24,000	Same as Above	Same	"B" Avenue
	TEMPORARY CLOCK ALLEYS	4	8' x 30' x 9'	960	8,940	Same as Above	Same	Hanford Camp
	EXCAVATING EQUIPMENT OFFICE	1	18' x 18' x 8'	192	1,832	Wood Frame Shed Roof Building	Lighting, Heating, Telephone	Near Tennis Courts
	ORIGINAL PIPE SHOP	1	20' x 60' x 10'	1,200	18,000	Wood Frame, Gable Roof Building	Lighting, Power, Heating	"A" Avenue
TC 4.10	ORIGINAL BLACKSMITH SHOP	1	40' x 80' x 10'	2,000	20,000	Wood Frame, Shed Roof Bldg. Post & Girder Const.	Lighting, Forge	"A" Avenue
	CARP. & LABOR CRAFT OFFICE (REHABILITATED)	1	18' x 30' x 9'	560	8,240	Gable & Shed Type Roof Bldg.	Lighting, Heating, Telephone, Gen. Remodeling	5th Street
	ELECTRICAL SHOP (REHAB.)	1	30' x 38' x 10' Ave.	1,140	11,400	Wood Frame, Gable Roof Bldg. with Lean-To Attached to South Side	Lighting, Heating, Telephone, 18' x 30' Lean-To Added to South Side	N. of Carp. Orientation Building
	U.S. ENGINEERS FIELD OFFICE (REHABILITATED)	1	22' x 48' x 10'	224	8,240	Wood Frame, Gable & Shed Roof Building	Lighting, Heating, Telephone, Water	1st & B Avenue
	AREA PIPE SHOP	1	36' x 36' x 10'	364	8,940	Wood Frame, Open Shed	Power Lighting	1st St. & "B" Avenue
TC 4.10	FIRE STATION	1	50' x 140' x 14'	7,000	68,000	Wood Frame, Gable Roof Bldg. Lean-To Along S. Side, Concrete Floor, Gypsum Board Sides & Roof	Lighting, Telephone, Steam Heat, Power, Water, Air Cooling, Toilet & Washroom Facilities, & Cooking Facilities	1st St. & "B" Avenue
	FIRE TRUCK STORAGE GARAGE	1	50' x 70' x 12'	3,500	42,000	Wood Frame, Gable Roof & Post & Girder Construction, Concrete Floor, Gypsum Board Siding	Lighting, Heating, Water	Same
	EQUIPMENT STORAGE BAYS	3	22' x 96'	8,000	36,480	Butler Kissen Type Sheet Metal Bays	Steam Heating Water, Air Cooling, Light	Same
	EQUIPMENT STORAGE BUILDING	1	18' x 30' x 8'	320	2,480	Wood Frame, Gable Roof Building	Lighting	Same

**SECRET**

**SECRET****BUILDING LIST - TEMPORARY CONSTRUCTION**

HARFORD CAMP AREA

CODE	NAME OF BUILDING	No. OF BUILDINGS	SIZE	AREA Sq. Ft.	VOLUME Cu. Ft.	TYPES OF CONSTRUCTION	FACILITIES INSTALLED	LOCATION
TC 4.11	SCHOOL BUILDING (EXISTING GRADE AND HIGH)	1	151'0" x 50'0" x 24'	3,802	213,408	Stucco & Concrete Building	Lighting, Steam Heat, Telephone, Water, Ventilation, Toilet & Washroom Facilities Miscellaneous Remodeling	MacArthur & "A" Avenue
	ANNEX (TO ABOVE) (EXISTING)	1	80 x 80 x 14	3,800	80,400	Reinforced Concrete & Brick	Lighting, Power, Steam Heating Plant	Same
	SCHOOL BLDG. #1 - 8 CLASSROOMS	1	170'0" x 56'6" x 12'	8,972	119,684	Wood Frame, Gable Roof Bldg. Post & Girder Construction, Gypsum Board Siding	Lighting, Steam Heating, Water, Ventilation, Toilet & Washroom Facilities, Power	Same
	SCHOOL BLDG. #2 - 4 CLASSROOMS	1	116'0" x 56'6" x 12'	6,676	80,112	Same as Above	Same	Same
	WAR PRODUCTION WELDING SCHOOL	1	56 x 56 x 13	1,872	24,336	Wood Frame, Gable Roof, Post & Girder Construction, Gypsum Board Siding	Lighting, Power	D-Avenue & 5th Street
	DAY NURSERY (REHABILITATED)	1	1-34' x 40' x 12' slg. 1-34' x 36' x 12' ave. slg. 1-34' x 50' x 12' slg.	3,456	48,240	Wood Frame, Gable Roof Building. Concrete Foundations & Basement	Lighting, Heating, Water, Toilet & Washroom Facilities, Telephone, General Remodeling	Same
	DAY NURSERY BUD	1	16' x 40' x 10'	640	6,400	Pacific Hut	Lighting	E. of Day Nursery on A-Ave.
TC 4.12	LOCOMOTIVE & BOILER REPAIR SHOP (ADDITION #4)	1	175' x 70' x 18'	12,850	220,800	Wood Frame, Truss Supported, Shad Roof Bldg. Lean-To Along N. Side, Post & Girder Construction Gypsum Board, Concrete Floor	Lighting, Power, Steam & Steam Heating, Air & Water, Monorail, Vents., Rails & Pits Telephones	2nd St. & "A" Avenue
TC 4.13	PUBLIC ADDRESS SYSTEM	33	Mountings			4 - Speaker per mounting Twisted Pair Lines	Power	Area wide

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300 AREA

Process Buildings

<u>Building No.</u>	<u>Name</u>
301	Storage & Fabrication Building
301-A	Paint Shop
303	9 Fresh Metal Storage Magazines
* 304	Chemical Storage Building
306	Pile Building
313	Metal Fabrication Building
314	Press Building
316	Process Waste Disposal Trench
321	Separation Building
361	Two Primary Substations
363	Transfer Platforms
382	Reservoir and Pump House
384	Heating Plant
* Later dismantled.	

Outside Electrical Facilities

3501	Fence and Road Lighting
3503	Outside Transmission Lines (including poles and hardware)
3505	Fire Alarm System
3506	Telephones and Telephone Cable

General Facilities

3601	Standard Gauge Railroad Track
3603	Roads and Walks
3605	Fence, including 4 Guard Towers

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General Facilities (Continued)

Building No.

Name

3613	Permanent Parking
3614	General Monitoring Stations
3621	Three Emergency Generator Shelters

Service Buildings

3701	Gate House
3704	Supervisors' Office
3706	Laboratory
3706-A	Air Conditioning Equipment Building
3707-A	Change House and Patrol Headquarters
3707-B	Change House
3709	Fire Headquarters
3718	Receiving Stereroom
3716	Fuel Pump
3717	Instrument Shop
3719	First Aid Building
3722	Two Area Shops
3726	Propane Storage Building
3734	Two Cylinder Storage Buildings
3741	Box Storage Building
3748	Standards Building
3748	Control Building

Outside Overhead Pipe Line

3801	Pipe Supports
3802	Steam Lines

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Outside Overhead Pipe Line (Cont'd.)

<u>Building No.</u>	<u>Name</u>
3808	Air Lines
<u>Outside Underground Pipe Lines and Facilities</u>	
3901	Water Lines
3902	Fire Lines (including one elevated tank)
3903	Sanitary Sewer Lines
3904	Process Sewer Lines
3905	Wells and Pumps

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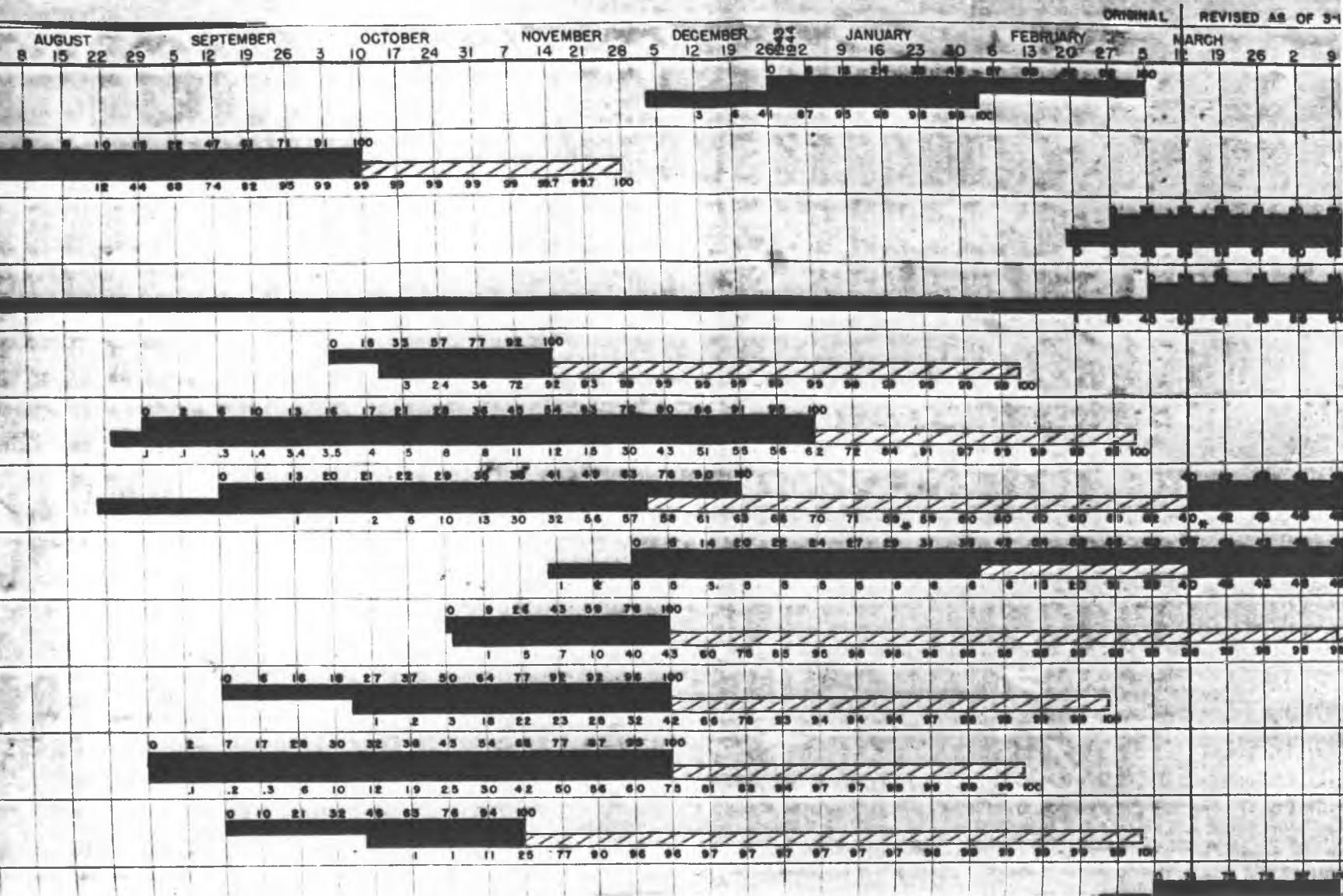
#### LEGEND

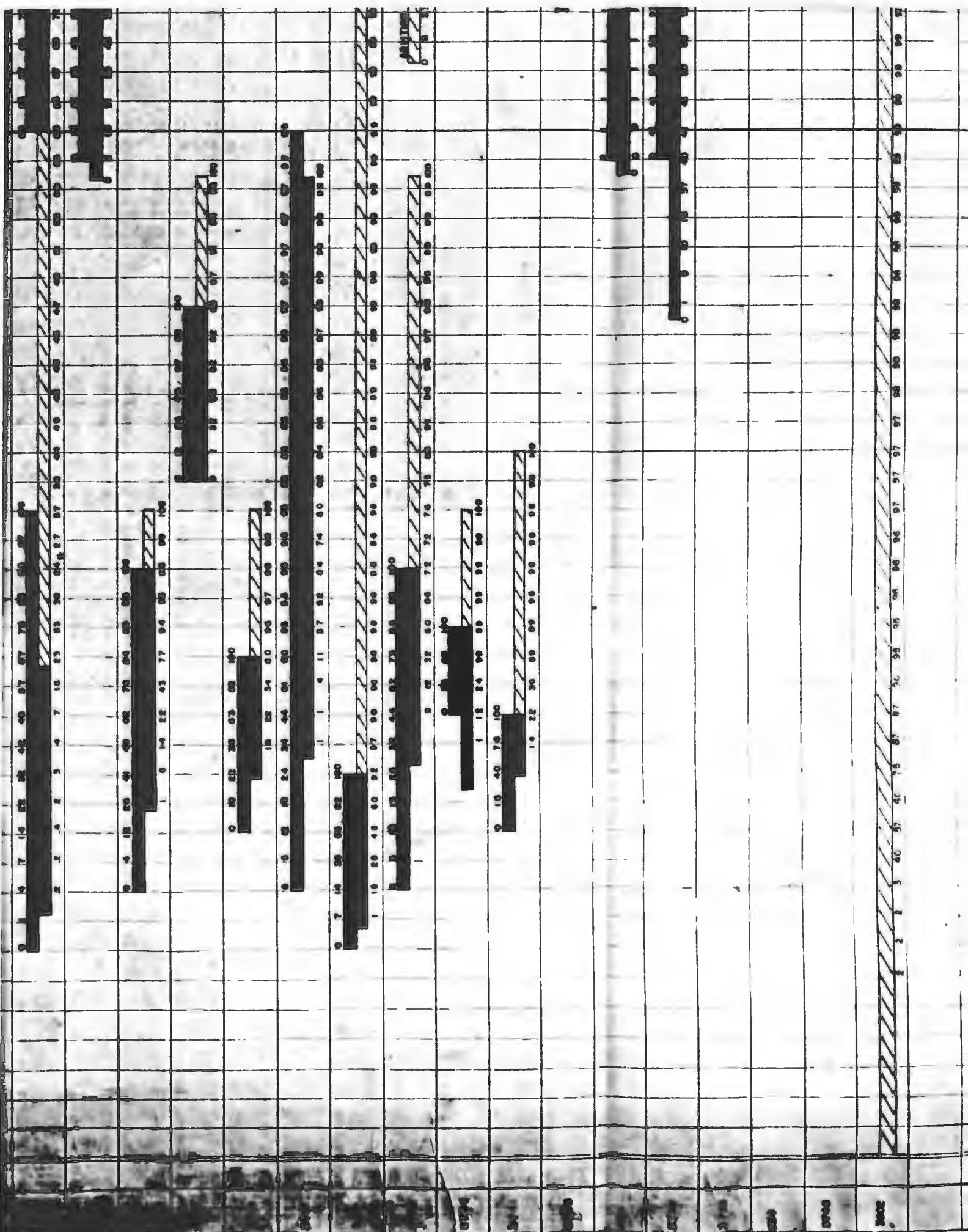
THE FIGURE INDICATE ESTIMATED  
SCHEDULE.

**PERCENTAGE FIGURE INDICATE ACTUAL  
ON SCHEDULE.**

NUMBER OF WEEKS ACTUAL PROGRESS  
AND SCHEDULED PROGRESS.

BUILDINGS AND A



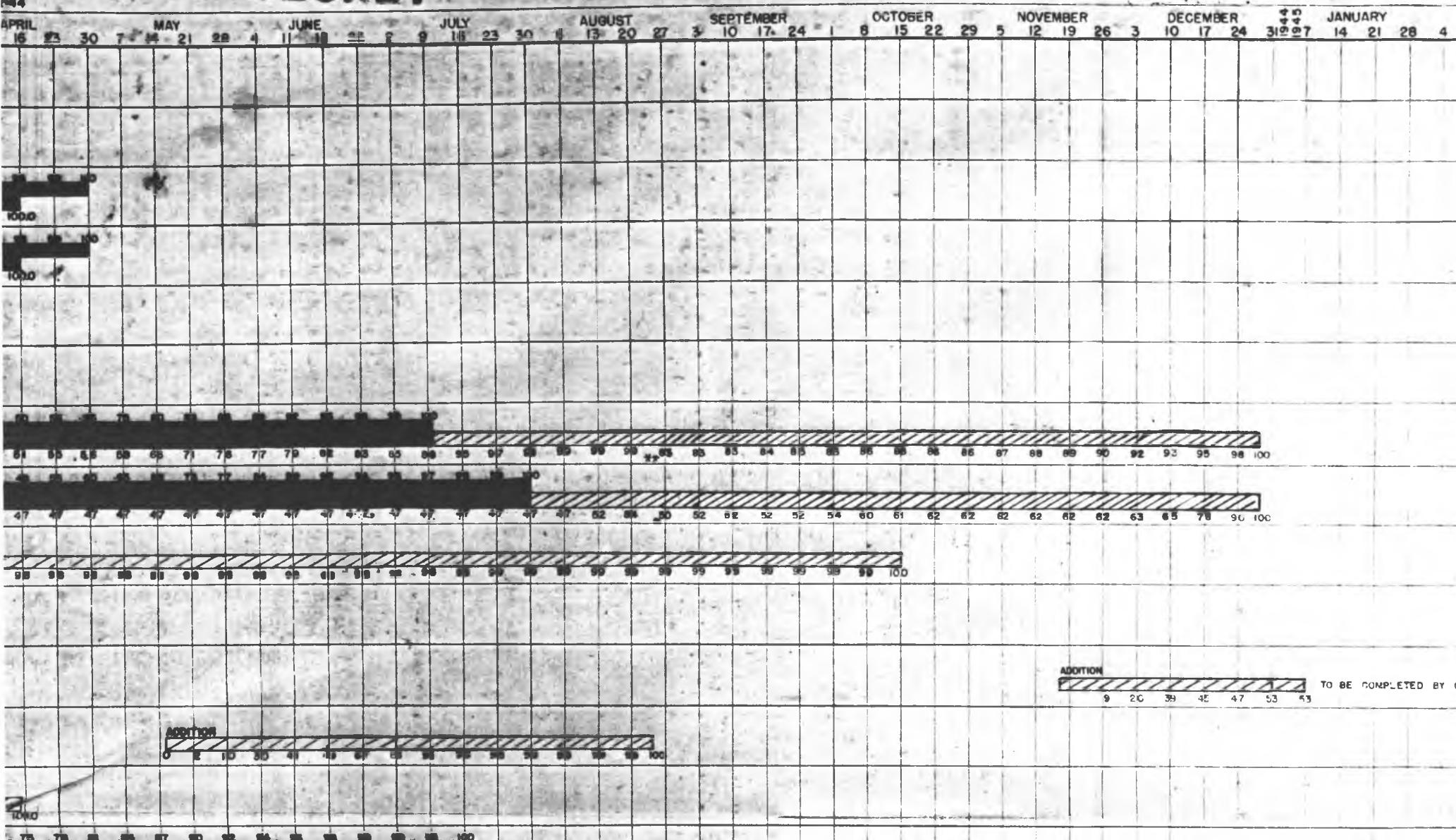


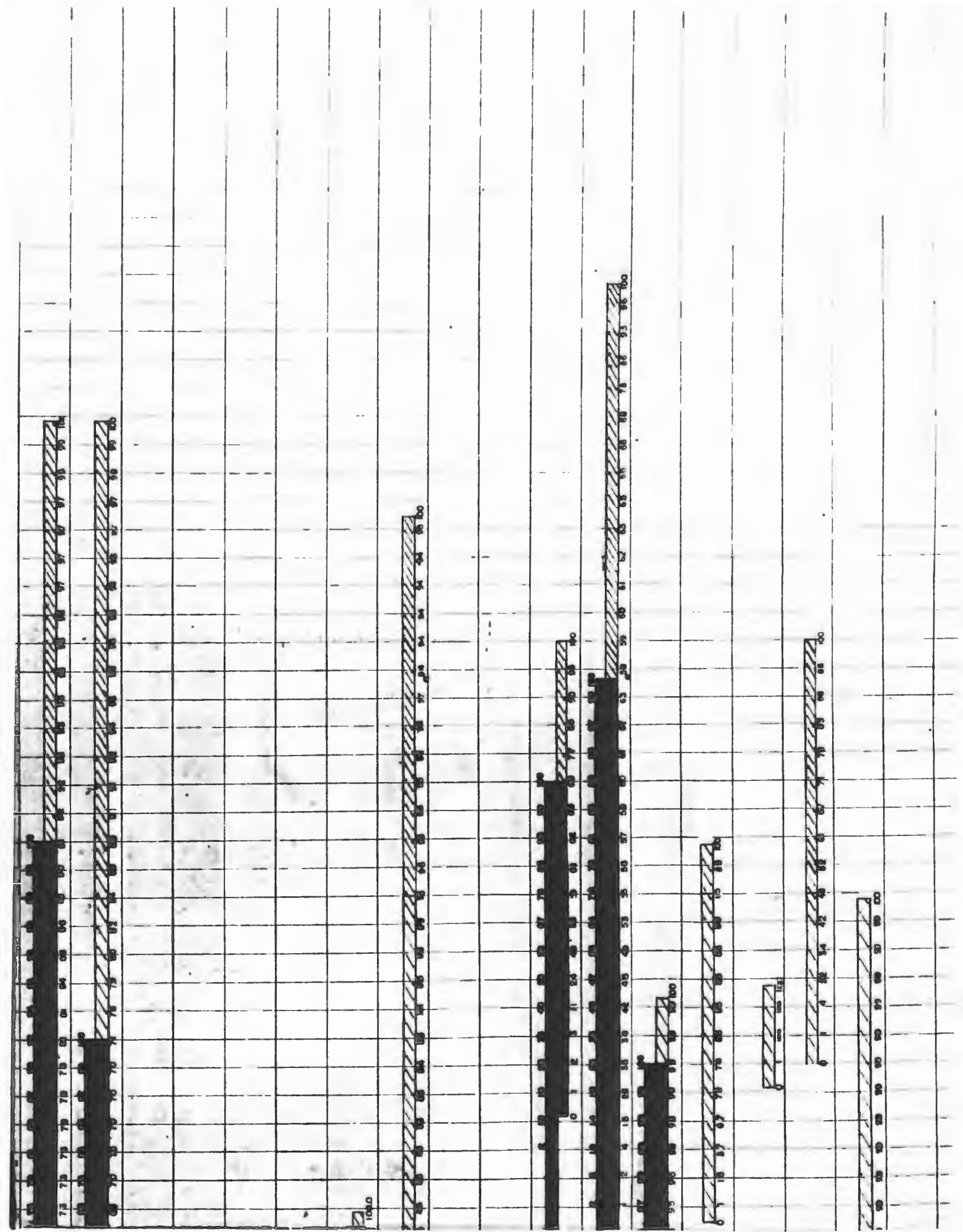
# ATION PROGRESS

**RE-ESTIMATED AND ACTUAL PERCENT COMPLETE**

300

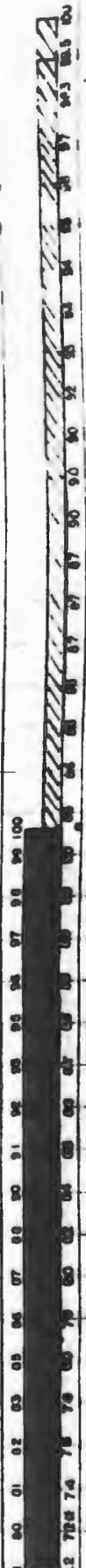
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PHOTOGRAPHIC RECORD APPROVED

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• PROGRESS OF CONSTRUCTION •  
BUILDINGS & FACILITIES

300 AREA  
PROJECT 834

BUILDING NUMBER	NAME	DESIGN RELEASE	EXCAVATION		FOUNDATIONS		STRUCTURAL STEEL		SUPERSTRUCTURE		EQUIPMENT INSTALLATION		TEST RUNS UNDER CONTRACT		STATUS DATE		LAST ACTIVITY DATE		NEXT ACTIVITY DATE	
			STARTED	COMPLETE	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	INSTALLED	COMPLETED	STARTED	COMPLETE	INSTALLED	COMPLETED	STARTED	COMPLETE	
301	Steel & Fabrication Building	11/16/43	12/3/43	12/5/43	12/7/43	—	—	—	12/20/43	1/2/44	—	—	—	—	—	—	—	—	—	
302	Pilot Plant	—	2/3/44	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
303	Incubator (B)	6/27/43	7/7/43	3/2/44	7/10/43	3/23/44	—	—	8/7/43	4/2/44	—	—	—	—	—	—	—	—	—	
304	Incubator (C)	6/27/43	14/23/43	10/25/43	10/25/43	10/25/43	—	—	10/26/43	11/26/43	—	—	—	—	—	—	—	—	—	
305	Sodium Storage Building	5/15/44	5/15/44	5/16/44	5/16/44	5/17/44	—	—	5/22/44	6/2/44	—	—	—	—	—	—	—	—	—	
306	Pile Building	6/27/43	6/23/43	6/23/43	6/23/43	6/23/43	—	—	6/27/43	10/24/43	10/25/43	10/26/43	10/26/43	10/26/43	10/26/43	10/26/43	10/26/43	10/26/43	10/26/43	
307	Steel Fabrication Building	6/27/43	9/21/43	9/21/43	9/21/43	9/21/43	—	—	10/9/43	10/23/43	10/23/43	10/24/43	10/24/43	10/24/43	10/24/43	10/24/43	10/24/43	10/24/43	10/24/43	
308	Press Building	5/15/44	5/15/44	5/15/44	5/15/44	5/15/44	—	—	5/22/44	5/25/44	5/25/44	5/26/44	5/26/44	5/26/44	5/26/44	5/26/44	5/26/44	5/26/44	5/26/44	
309	Disposal Grounds	12/26/44	12/15/44	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
310	Separation Building	2/21/44	3/2/44	5/1/44	3/2/44	3/2/44	—	—	4/7/44	4/24/44	4/24/44	4/24/44	4/24/44	4/24/44	4/24/44	4/24/44	4/24/44	4/24/44	4/24/44	
311	Primary Generator	6/10/43	6/29/43	6/29/43	6/29/43	6/29/43	—	—	—	—	—	—	—	—	—	—	—	—	—	
312	Primary Generator	10/29/43	10/29/43	10/29/43	10/29/43	10/29/43	—	—	10/29/43	10/29/43	10/29/43	10/29/43	10/29/43	10/29/43	10/29/43	10/29/43	10/29/43	10/29/43	10/29/43	
313	Transfer Platform	6/23/43	6/23/43	6/23/43	6/23/43	6/23/43	—	—	—	—	—	—	—	—	—	—	—	—	—	
314	Reactor & Pump Room	7/2/43	7/2/43	7/2/43	7/2/43	7/2/43	—	—	—	—	—	—	—	—	—	—	—	—	—	
315	Boiling Plant	7/26/43	8/20/43	10/2/44	9/2/44	10/2/44	—	—	10/29/43	10/29/43	10/29/43	10/29/43	10/29/43	10/29/43	10/29/43	10/29/43	10/29/43	10/29/43	10/29/43	
316	Fence and Gate Lodge	6/24/43	6/24/43	6/24/43	6/24/43	6/24/43	—	—	—	—	—	—	—	—	—	—	—	—	—	
317	Wind Tunnel, Recirculation and Balance	7/12/43	9/20/43	9/20/43	9/20/43	9/20/43	—	—	—	—	—	—	—	—	—	—	—	—	—	
318	Fire Alarm System	8/25/43	9/20/43	9/20/43	9/20/43	9/20/43	—	—	—	—	—	—	—	—	—	—	—	—	—	
319	Telephone System	8/25/43	8/25/43	8/25/43	8/25/43	8/25/43	—	—	—	—	—	—	—	—	—	—	—	—	—	
320	Secondary Source Isolated Stack	5/21/43	7/25/43	7/25/43	7/25/43	7/25/43	—	—	—	—	—	—	—	—	—	—	—	—	—	
321	Beds and Bunks	5/15/43	6/24/43	6/24/43	6/24/43	6/24/43	—	—	—	—	—	—	—	—	—	—	—	—	—	
322	Portals	10/11/43	10/11/43	10/11/43	10/11/43	10/11/43	—	—	—	—	—	—	—	—	—	—	—	—	—	
323	Portals	5/15/43	6/23/43	6/23/43	6/23/43	6/23/43	—	—	—	—	—	—	—	—	—	—	—	—	—	
324	General Weathering Shelters	14/48/43	14/48/43	14/48/43	14/48/43	14/48/43	—	—	—	—	—	—	—	—	—	—	—	—	—	
325	Emergency Power, Gen. Masterkey (1)	19/19/43	5/6/44	5/6/44	5/6/44	5/6/44	—	—	—	—	—	—	—	—	—	—	—	—	—	
326	Office Space and Class Areas	5/14/43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
327	University	7/7/43	9/2/43	9/2/43	9/2/43	9/2/43	—	—	—	—	—	—	—	—	—	—	—	—	—	
328	Air Conditioning Equipment Room	4/24/43	4/24/43	4/24/43	4/24/43	4/24/43	—	—	—	—	—	—	—	—	—	—	—	—	—	
329	Change Room	6/1/43	9/26/43	10/4/43	10/4/43	10/4/43	—	—	—	—	—	—	—	—	—	—	—	—	—	
330	Change Room	14/15/43	14/21/43	14/21/43	14/21/43	14/21/43	—	—	—	—	—	—	—	—	—	—	—	—	—	
331	Power Room	4/24/43	4/24/43	4/24/43	4/24/43	4/24/43	—	—	—	—	—	—	—	—	—	—	—	—	—	
332	Generator Room	5/24/43	10/4/43	10/4/43	10/4/43	10/4/43	—	—	—	—	—	—	—	—	—	—	—	—	—	

SECRET

• PROGRESS OF CONSTRUCTION •  
BUILDINGS & FACILITIES

300 AREA

PROJECT 9536

BUILDING NUMBER	NAME	DESIGN RELEASED	EXCAVATION		FOUNDATIONS		STRUCTURAL STEEL		SUPERSTRUCTURE		EQUIPMENT INSTALLATION		TEST RUNS		STARTUP DATE	COMPLETION DATE	DATE ACCEPTED BY	
			STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	MAJOR EQUIPMENT	OPERATOR	GOVT.			
3722	Pow. Plant	—	10/5/63	—	—	—	—	—	—	—	—	—	—	—	—	11/2/63	10/23/64	10/23/64
3727	Instrument Shop	5/25/63	10/12/63	10/13/63	10/15/63	12, 26/63	—	—	11, 12/63	2/4/64	—	—	—	—	—	3/2/64	7/27/64	7/27/64
3728	Power A.M. Building	6/6/63	9, 4/63	9, 3/63	9, 3/63	9/4/63	—	—	9/17/63	10/29/63	—	—	—	—	—	4/25/64	4/28/64	4/28/64
3722	Area Shop	6, 31/63	10/12/63	10/13/63	10/15/63	4/21/64	—	—	10/29/63	7/21/64	—	—	—	—	—	10/6/64	10/6/64	10/6/64
3722a	Area Shop	—	9/7/63	—	—	—	—	—	—	—	—	—	—	—	—	10/6/64	10/23/64	10/23/64
3728	process storage	—	4/2/64	4/13/64	4/14/64	4/21/64	—	—	4/28/64	6/2/64	—	—	5/25/64	6/1/64	8/26/64	7/26/64	8/27/64	8/27/64
3734	cylinder storage	6, 22/63	10, 7/63	10, 24/63	10, 22/63	11/5/63	—	—	11/1/63	12/10/63	—	—	—	—	—	12/9/64	1/4/64	1/4/64
3734a	cylinder storage	9, 7/64	9/24/64	9/25/64	9/25/64	10/2/64	—	—	—	—	—	—	—	—	—	10/18/64	10/23/64	10/23/64
3761	Bin Storage	6/30/63	10, 9/63	10/12/63	10, 22/63	10/29/63	—	—	10/22/63	12/15/63	—	—	—	—	—	12/20/64	4/6/64	4/6/64
3763	Standard Building	—	5/11/64	5/12/64	5/12/64	6/16/64	—	—	6/2/64	8/24/64	—	—	—	—	—	9/2/64	12/18/64	12/18/64
3764	Central Building	5/13/64	5/28/64	5/28/64	6/23/64	—	—	6/9/64	8/24/64	—	—	—	—	—	9/2/64	10/23/64	10/23/64	
3802	Pipe Reports	7, 14/63	10/5/63	—	—	—	—	—	—	—	—	—	—	—	—	12/27/64	4/6/64	4/6/64
3802	Steam Lines	9/29/63	10, 18/63	—	—	—	—	—	—	—	—	—	—	—	—	1/3/64	4/6/64	4/6/64
3803	Air Lines	9/29/63	10, 20/63	—	—	—	—	—	—	—	—	—	—	—	—	12/27/64	4/6/64	4/6/64
3803	Water Lines	9/29/63	7/8/63	—	—	—	—	—	—	—	—	—	—	—	—	12/29/64	4/30/64	7/3/64
3902	Fire Lines and C.R. Tank	6/26/63	7/8/63	—	—	—	—	—	—	—	—	—	—	—	—	12/29/64	6/30/64	7/3/64
3903	Sanitary Sewers	7/13/63	9/20/63	—	—	—	—	—	—	—	—	—	—	—	—	11/20/64	12/25/64	8/7/64
3903	Drainage Sewers	7/13/63	10/1/63	—	—	—	—	—	—	—	—	—	—	—	—	12/27/64	1/7/64	8/7/64
3905	Walls (2)	6/20/63	7, 30/63	—	—	—	—	—	—	—	—	—	8/19/63	1/28/64	12/29/64	2/27/64	2/27/64	2/27/64
• Inspectors Temporary Construction		These cover the operations for permanent use.																
NOTE: The dates shown on this sheet reflect the time at which the various stages of construction were essentially complete.		The dates shown on this sheet reflect the time at which the various stages of construction were essentially complete.																

## SUBCONTRACTORS - 300 AREA

<u>RPG</u>	<u>SUBCONTRACTOR</u>	<u>SCOPE OF WORK</u>	<u>BUILDING</u>
701	Chicago Bridge & Iron Company	Elevated Steel Tank	902 (All Areas - See App. B-56)
2412	Clinton Bridge Works	Structural Steel	313, 314
4342	Alphonse Guedelis Chimney Constr. Company	Radial Brick Stack	384
4892	National Gunite Contracting Co.	Pre-stressed Concrete Tank	382
8892	Grinnell Company	Sprinkler Systems	3706, 3717
14732	Asbestos Supply Companies	Thermal Insulation	306, 313, 314, 321, 382, 384, 3701, 3704, 3706, 3707A, 3707B, 3709, 3713, 3717, 3719, 3722, 3745, 3802, 3746.
403	Guy F. Atkinson Co.	Railroad Construction	Area
407	Myers Bros. & N. W. Ball Sons	Road Construction	Area
408	Newberry-Chandler-Lord	Electrical Work	Area
410	Hanford Concrete Contractors	Aggregate and Cement	Area
411	Hancock-James-Zahniser & Warren	Piping Work	Area
4321	Curtis Gravel Company	Aggregate and Cement	Area
4327	California Waterproofing Co.	Built-up Roofing	3707A
4328	McManama & Co.	Boilers	384

<u>REG</u>	<u>SUBCONTRACTOR</u>	<u>SCOPE OF WORK</u>	<u>BUILDING</u>
4332	Wm. Vail	Built-up Roofing	301, 303(E), (G), (J), 313, 321, 3614, 3701, 3706, 3706 A, 3707 B, 3709, 3717, 3719, 3722, 3745, 3746, 3621(A), (B), (C).
4336	Jesson & Wright	Concrete Block	Area
4354	H. H. Parsons Tile Co.	Linoleum & Asphalt Tile	321, 3706, 3746.

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## 100 AREA

Process Building

<u>Building Number</u>	<u>100-B</u>	<u>100-D</u>	<u>100-F</u>	
103	1	1	1	Fresh Metal Storage
106	1	1	1	Pile Building
107	1	1	1	Retention Basin
108	1	1	1	Chemical Pump House
110	1	1	1	Gas Storage Tanks
111	1	-	-	Test Building
115	1	1	1	Helium Purification Building
116	1	1	1	Stack
145	1	-	-	Water Treatment Building
181	1	1	1	River Pump House
182	1	1	1	Reservoir and Pump House
183	1	1	1	Filter Building
184	1	1	1	Power House (Incl. Coal Storage Pit and Coal Conveyors)
185	1	1	1	Generating Plant
186	-	1	-	Demineralising Plant
187	2	2	2	Elevated Process Water Storage Tank
188	1	1	1	Ash Disposal Basin
189	-	1	1	Refrigeration Building
190	1	1	1	Process Pump House

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B-58

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SHEET 1 OF 3 SHEETS

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Outside Electrical Facilities

<u>Building Number</u>	<u>100-B</u>	<u>100-D</u>	<u>100-F</u>	
151	1	1	1	Primary Substation (230KV/13.8KV)
152	10	12	11	Secondary Substation (13.8KV/2300 V ± 2300 V/440-220-110V)
153	8	6	6	Distribution Substations (2300V/440-220-110V)
1501	x	x	x	Fence and Road Lighting
1503	x	x	x	Electrical Distribution Lines
1505	x	x	x	Fire Alarm System
1506	x	x	x	Telephone Cable and Instruments
1601	x	x	x	Standard Gauge Railroad Track
1603	x	x	x	Roads and Walks
1605	x-(11)	x-(10)	x-(8)	Fences-Including Guard Towers
1607	7	5	5	Underground Septic Tanks
1608	-	1	1	Process Waste Dumping Station
1613	x	x	x	Open Drainage Ditches
1613	x	x	x	Permanent Parking Area
1614	3	3	3	General Monitoring Stations
1621	3	3	3	Emergency Generator Shelters
	<hr/> 32	<hr/> 26	<hr/> 28	

Service Buildings

1701	1	1	1	Gate House
1704	1	1	1	Supervisors' Office and Laboratory
1706	-	-	1	Test Laboratory
1707	2	2	2	Change House

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Service Buildings (Continued)

<u>Building Number</u>	<u>100-B</u>	<u>100-D</u>	<u>100-F</u>	
1709	1	1	1	Fire Headquarters
1713	3	2	2	Storerooms
1715	1	1	1	Oil and Paint Storage Building
1716	1	1	1	Automotive Repair Shop
1717	1	1	1	Combined Shops
1719	1	1	1	First Aid Building
1720	1	1	1	Patrol Headquarters
1722	2	1	1	Area Shops
1729	1	1	-	Extra Machinery Storehouses
1734	1	1	1	Gas Cylinder Storage
1755	-	1	-	Training Building
	<hr/> 17	<hr/> 18	<hr/> 18	

Outside Overhead Pipe Lines

1801	x	x	x	Pipe Supports
1802	x	x	x	Steam Lines
1803	x	x	x	Air Lines
1805	x	x	x	Process Lines

Outside Underground Pipe Lines

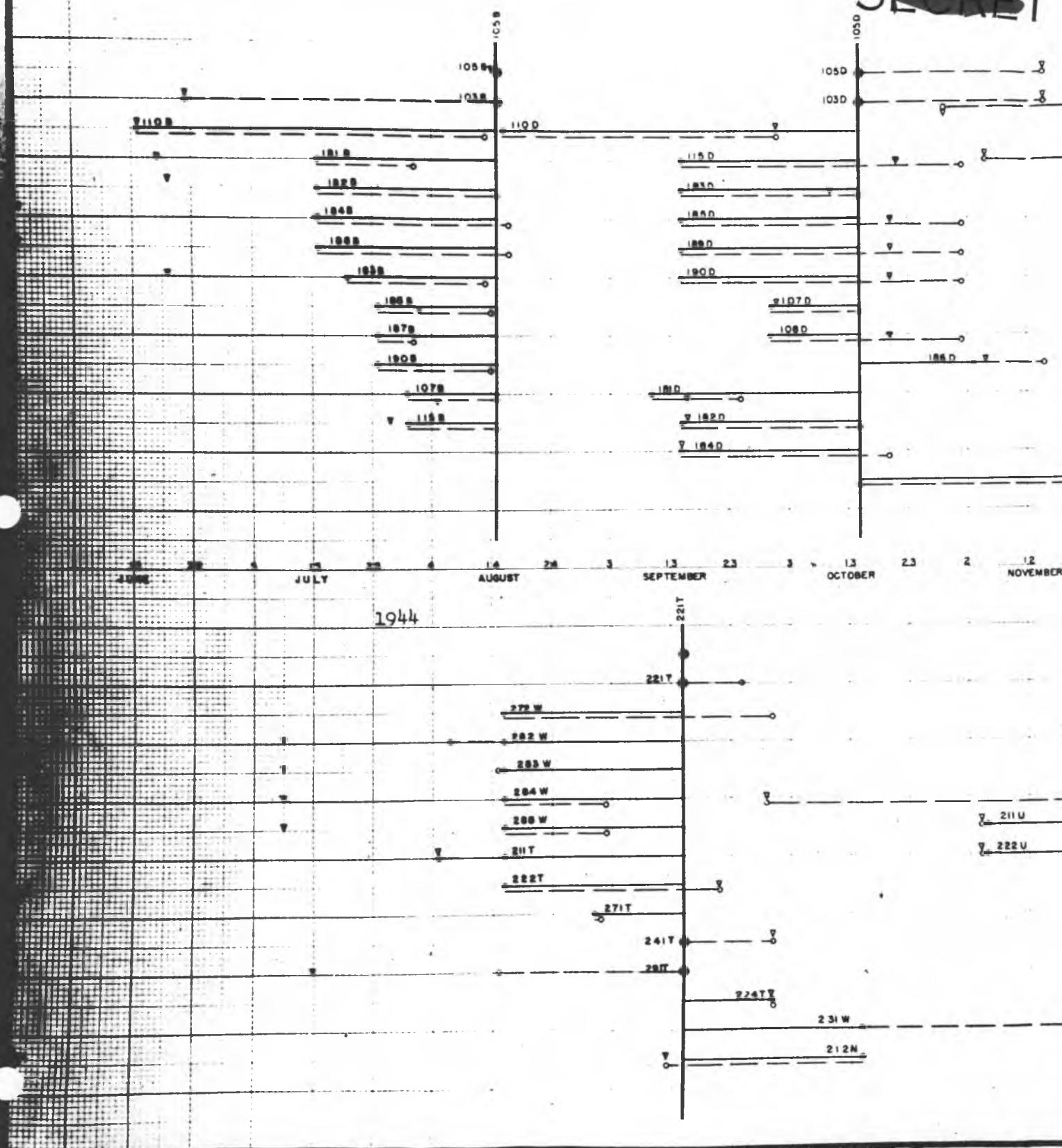
1901	x	x	x	Water Lines (Including Elevated Storage Tanks)
1902	x	x	x	Fire Lines (Including Elevated Storage Tanks)
1903	x	x	x	Sanitary Sewer Lines
1904	x	x	x	Process Sewer Lines

Note: "x" indicates that the above facilities are installed in the respective areas.

## SEQUENCE OF START

HANFORD ENGINEER W

PROJ-9536

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# ENCE OF START-UPS

FORD ENGINEER WORKS

PROJ-9536

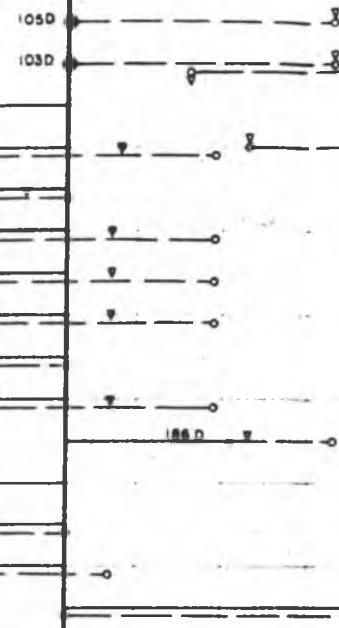
## LEGEND

- BLACK DOTS REPRESENT REQUESTED START-UPS
- ▼ BLACK V'S REPRESENT ESTIMATED START-UPS
- BLACK O'S REPRESENT ESTIMATED COMPLETION DATE
- TIME BEFORE OR AFTER REQUESTED STARTUPS OF 100 & 221 BLDGS
- ESTIMATED TIME BEFORE OR AFTER REQUESTED START-UPS

**SECRET**

105D

105P



13 OCTOBER

23

2

12 NOVEMBER

22

12 DECEMBER

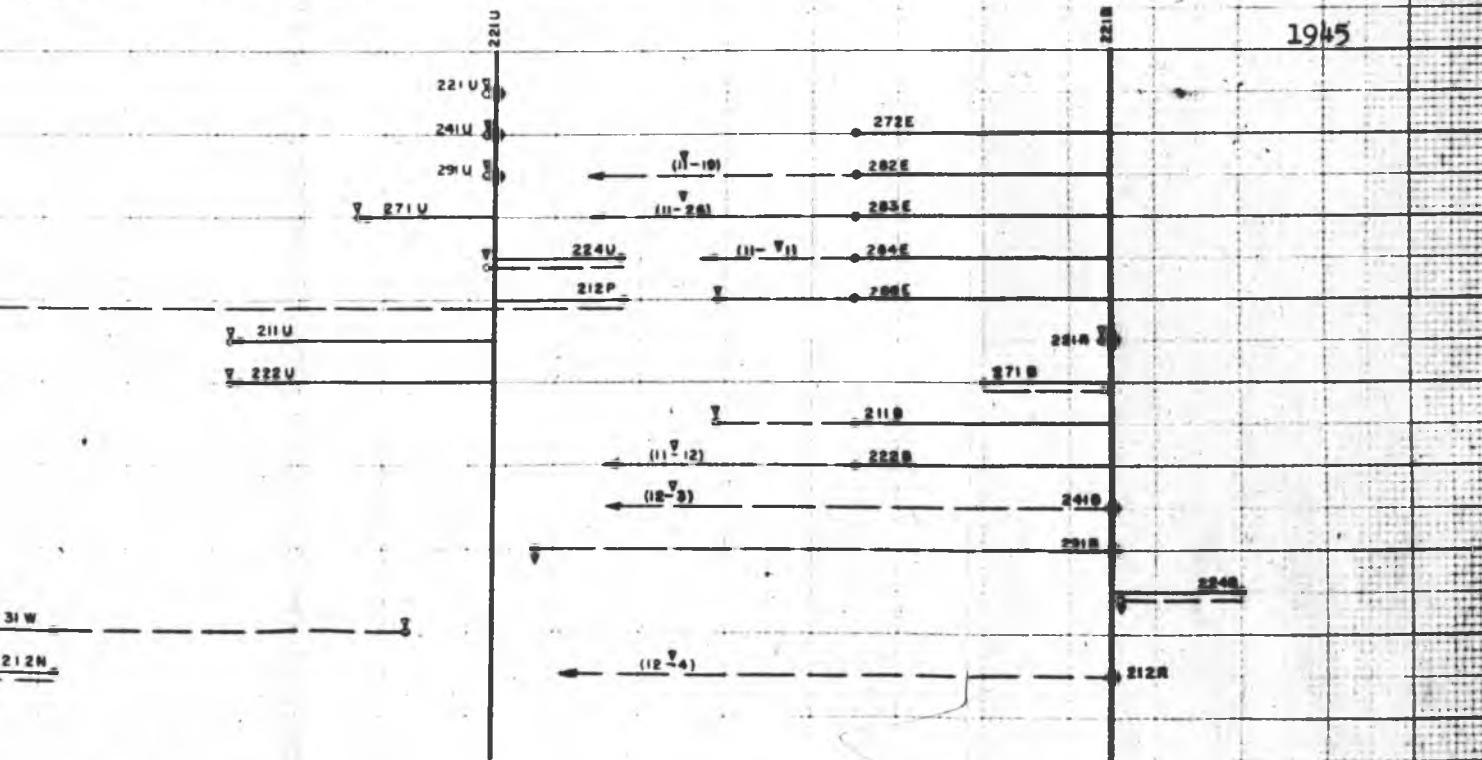
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HANFORD ENGINEER

## CONSTRUCTION R

ANSWERED . . .

100-B

HANFORD ENGINEER WORKS

## CONSTRUCTION PROGRESS

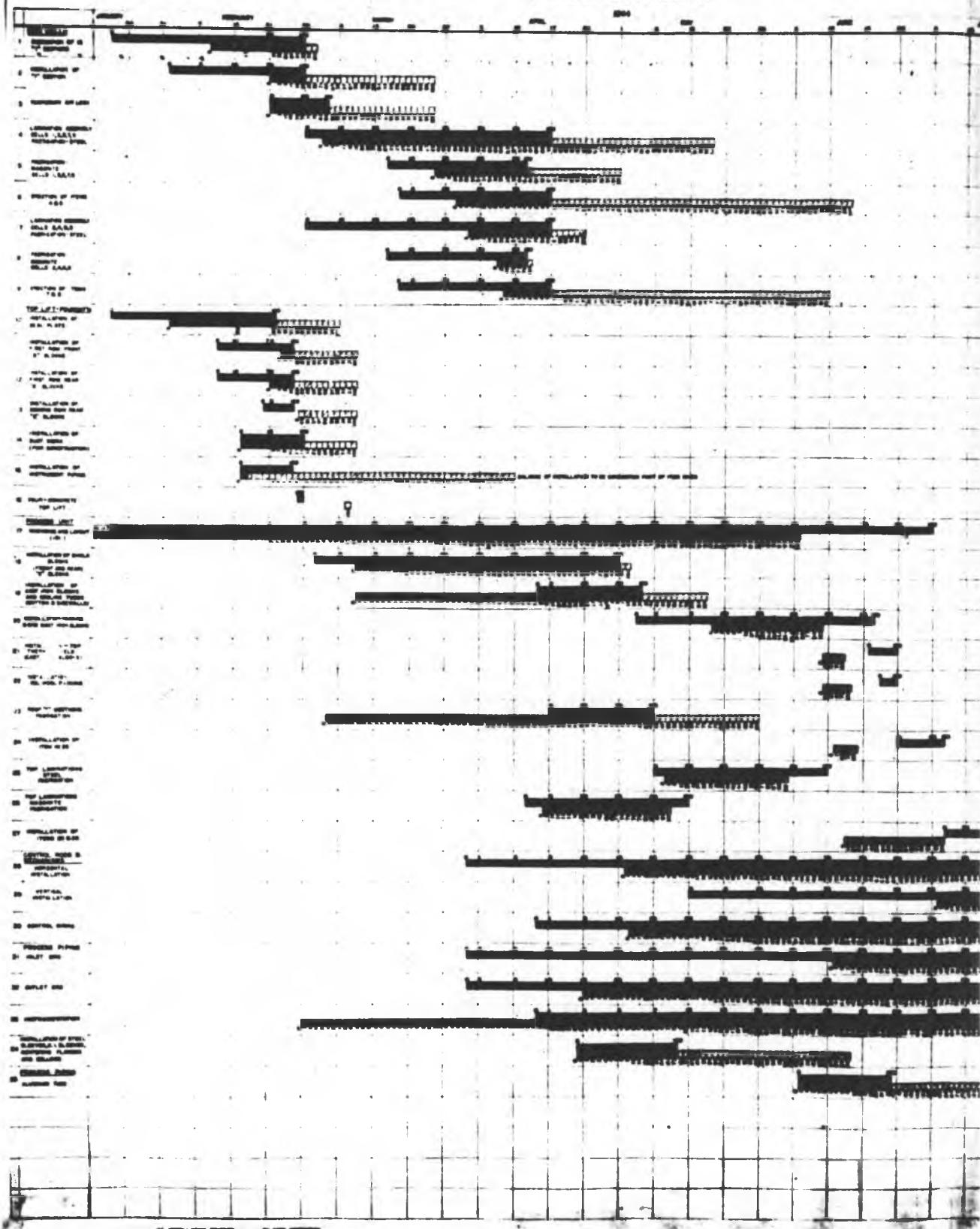
ARE ESTIMATE AND APPROXIMATE

100-B

NOT TO BE DISSTRUCTED

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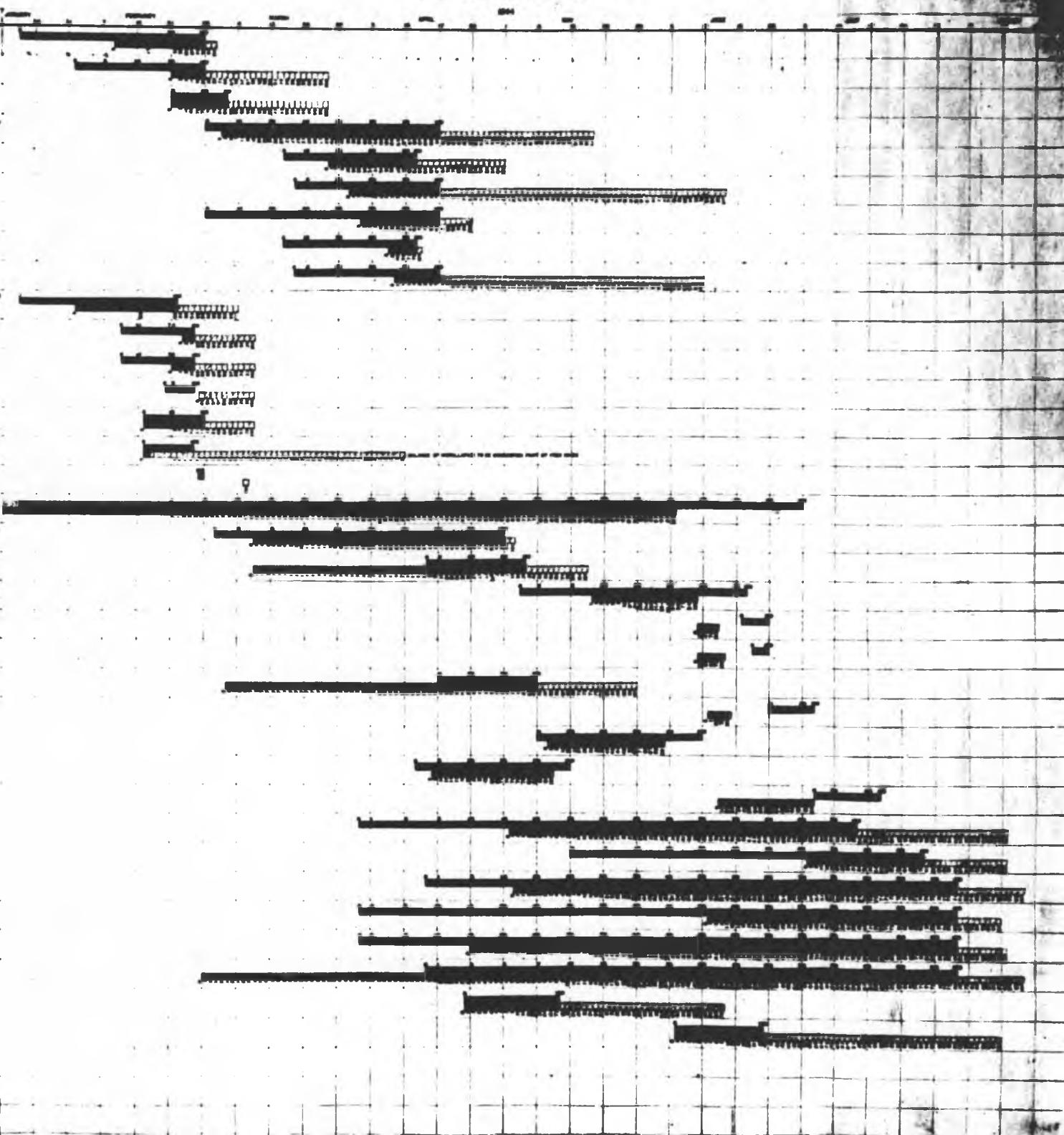
**DAILY CONSTRUCTION PROGRESS  
EQUIPMENT INSTALLATION - 105 B BUILDING**



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DAILY CONSTRUCTION PROGRESS  
EQUIPMENT INSTALLATION - 105 B BUILDING  
ESTIMATED AND ACTUAL % COMPLETE



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--- INDICATE ESTIMATED CONST. SCHEDULE  
--- INDICATE ACTUAL SCHEDULE

SHADING BELOW BAR INDICATES THAT ACTUAL  
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SHADING BELOW BAR INDICATES THAT ACTUAL  
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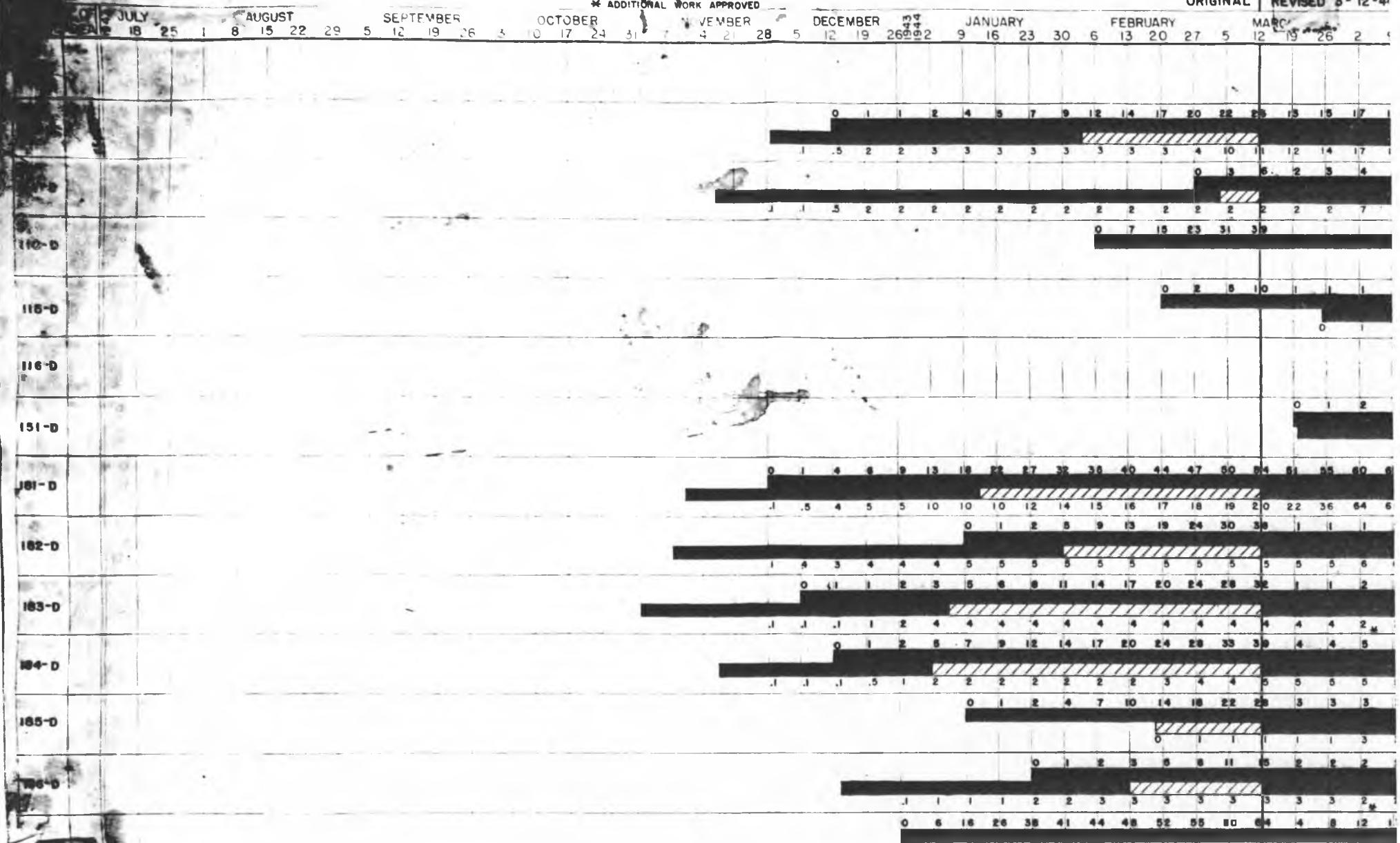
----- INDICATES NUMBER OF WEEKS PROGRESS  
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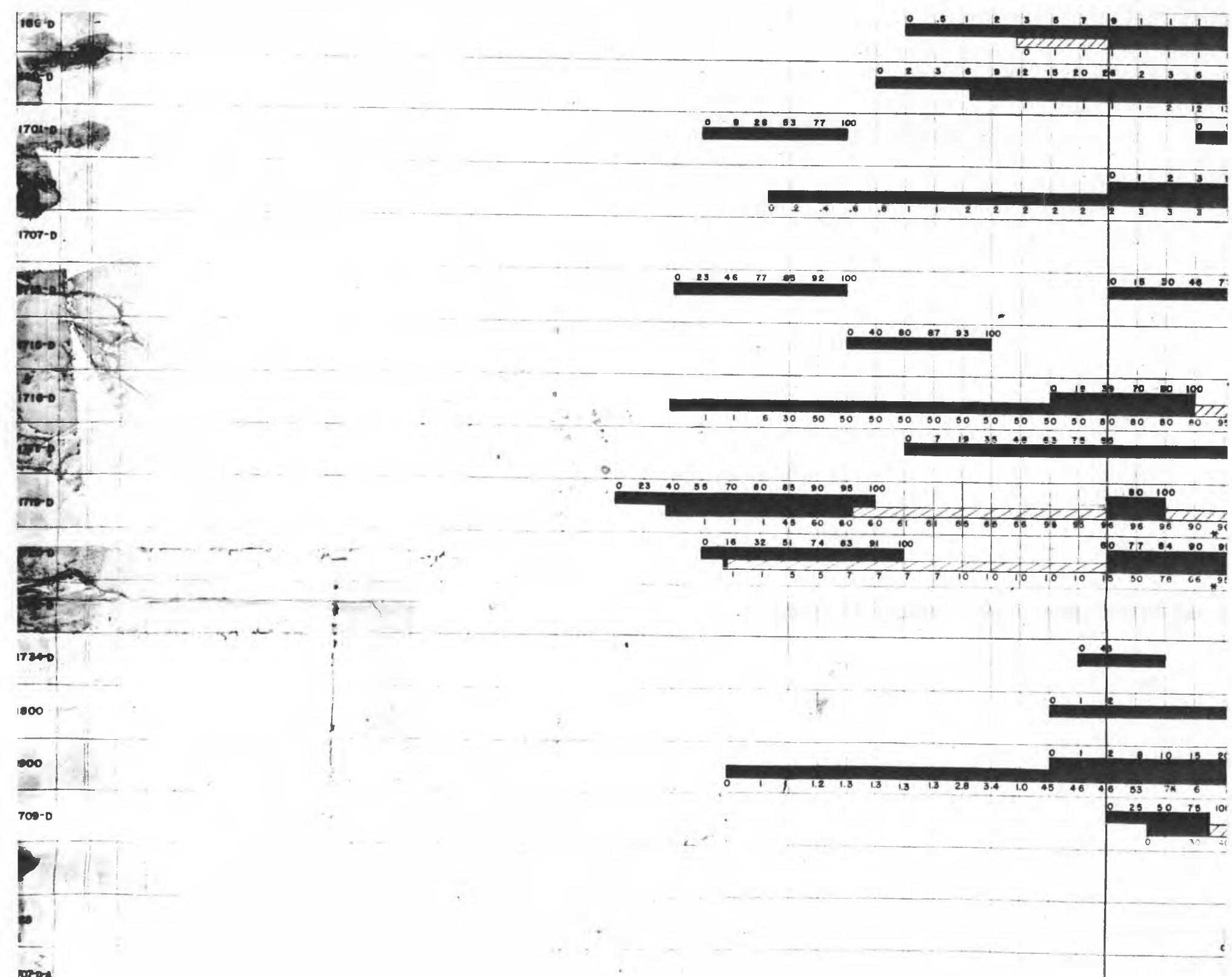
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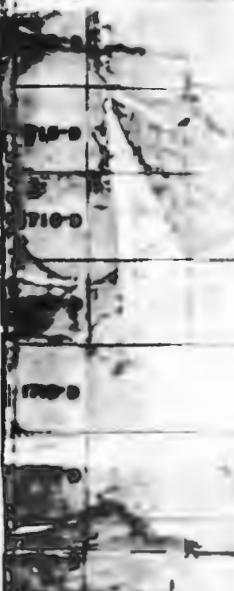
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REVISED 3-12-41





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0 25 50 75 100

0 37 44

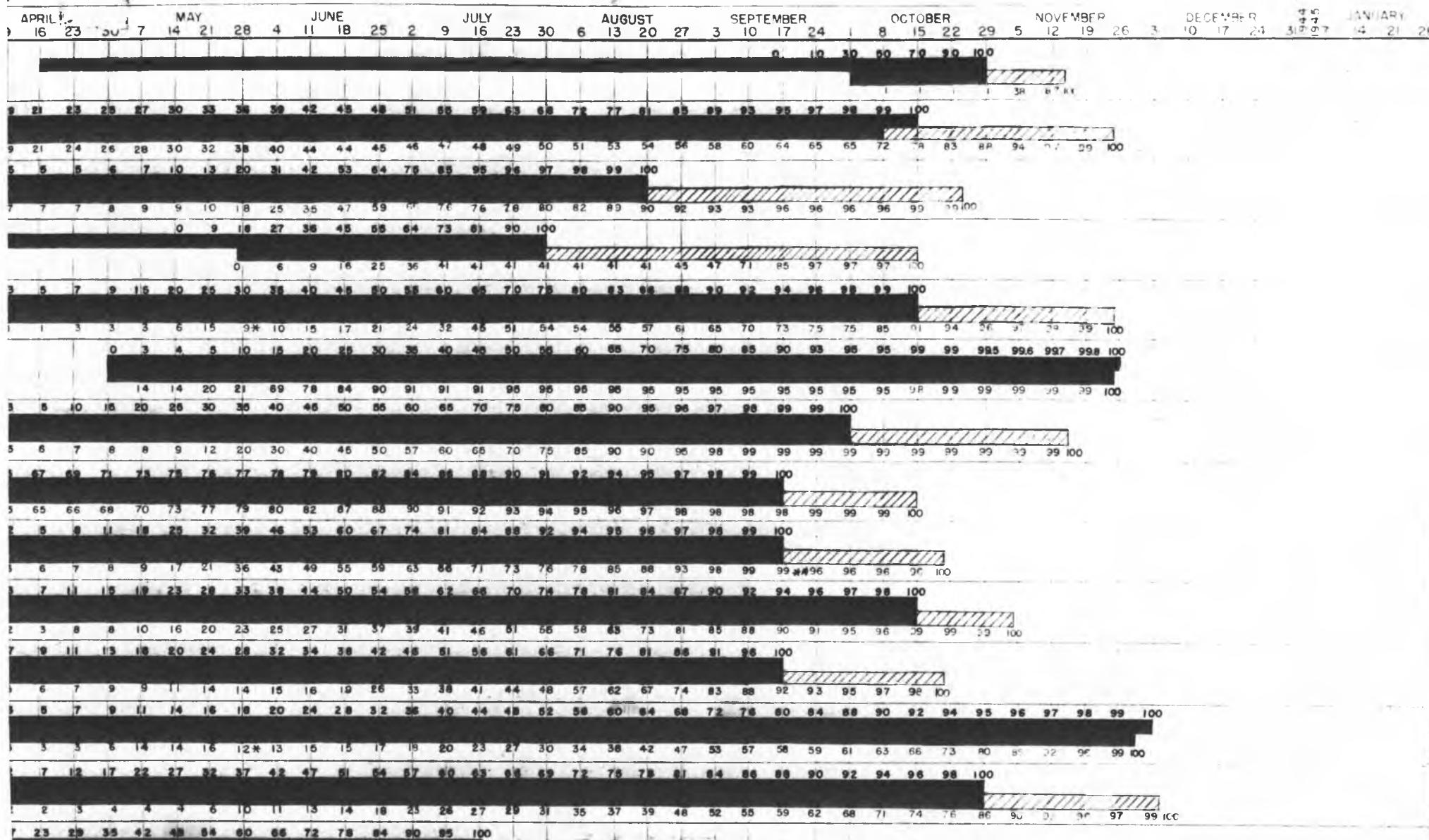
0 1 1 2 5 9 15 2 3 5 6 0 10 12 15 10 21 20 7 9 12 11

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ESTIMATED AND ACTUAL PERCENT COMPLETE

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A vertical scale bar with a grid pattern. The top section has numerical markings: 0, 1, 2, 3, 4, 5, 6. The bottom section has markings: 0.0, 0.2, 0.4, 0.6, 0.8, 1.0.

A vertical scale bar with a hatched pattern, labeled from 0 to 100 in increments of 10.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100





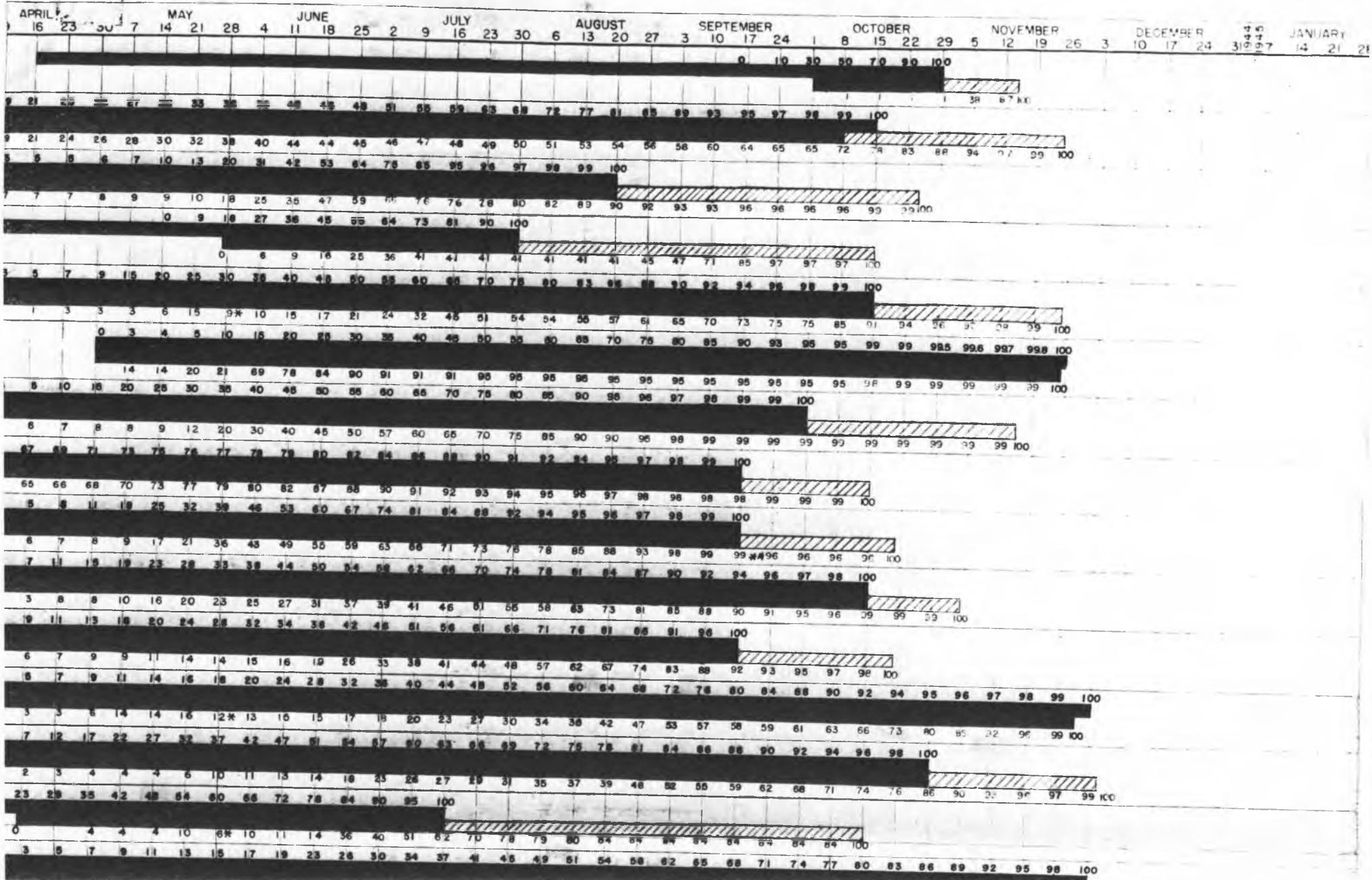
000 66 86 96 26 64 64 74 04 04 28 49 22 32 91 1

0 50 100 150 200 250 300 350 400 450 500

~~SECRET~~

**TIMED AND ACTUAL PERCENT COMPLETE**

**100-D** **SECRET**



## LEGEND

BLACK BAR = ESTIMATED CONSTR SCHEDULE  
PERCENT = ACTUAL CONSTR SCHEDULE

BLACK NUMBER = HOW BAR INDICATES THAT ACTUAL PERCENT  
IS EQUAL TO OR AHEAD OF SCHEDULED PERCENT  
RED NUMBER = HOW BAR INDICATES THAT ACTUAL PERCENT  
PERCENT IS BEHIND SCHEDULE

222 INDICATE IN NUMBER OF WEEKS PROGRESS IS BEHIND  
SCHEDULE

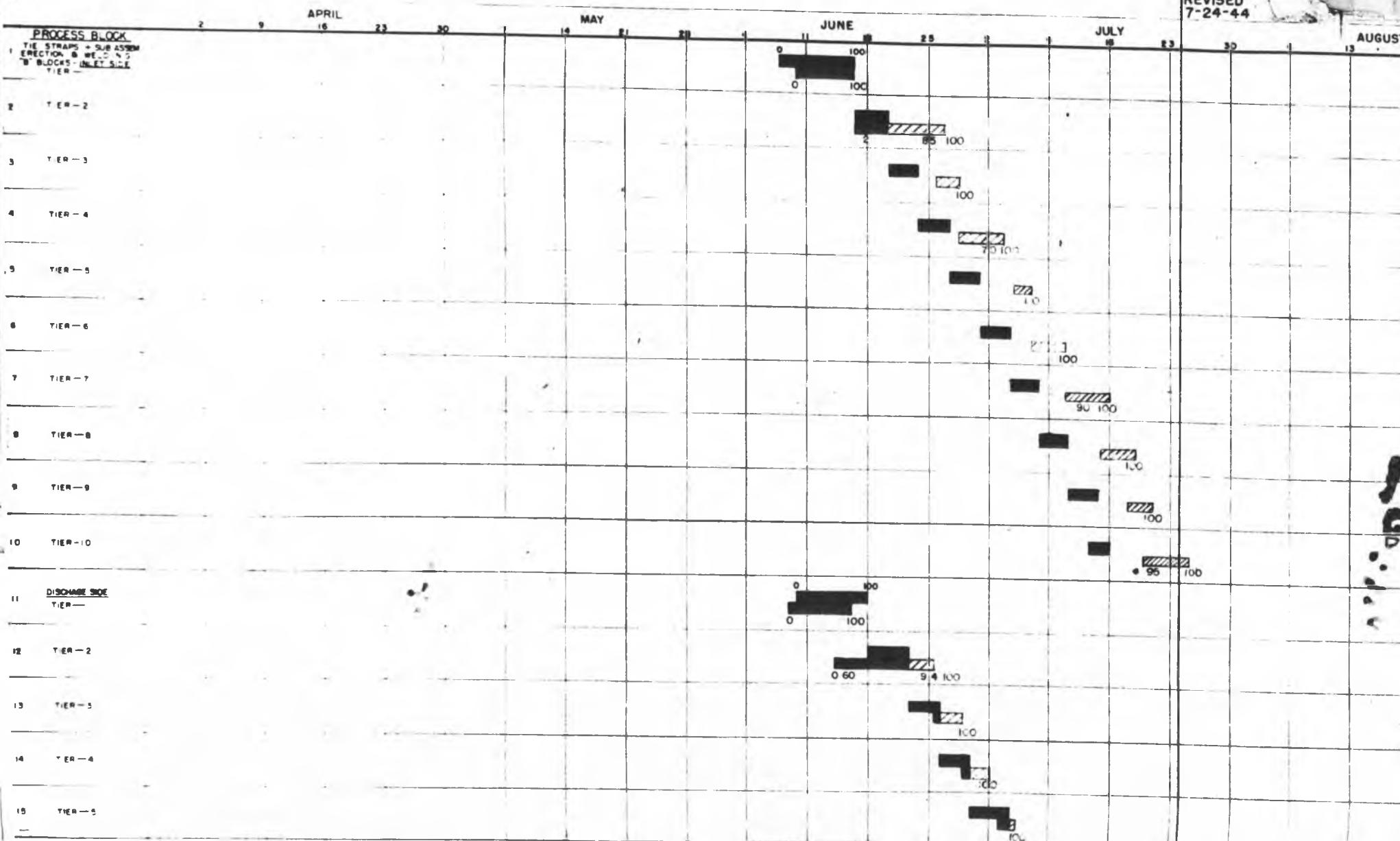
HANFORD ENGINEER WORKS  
PROJECT-B900

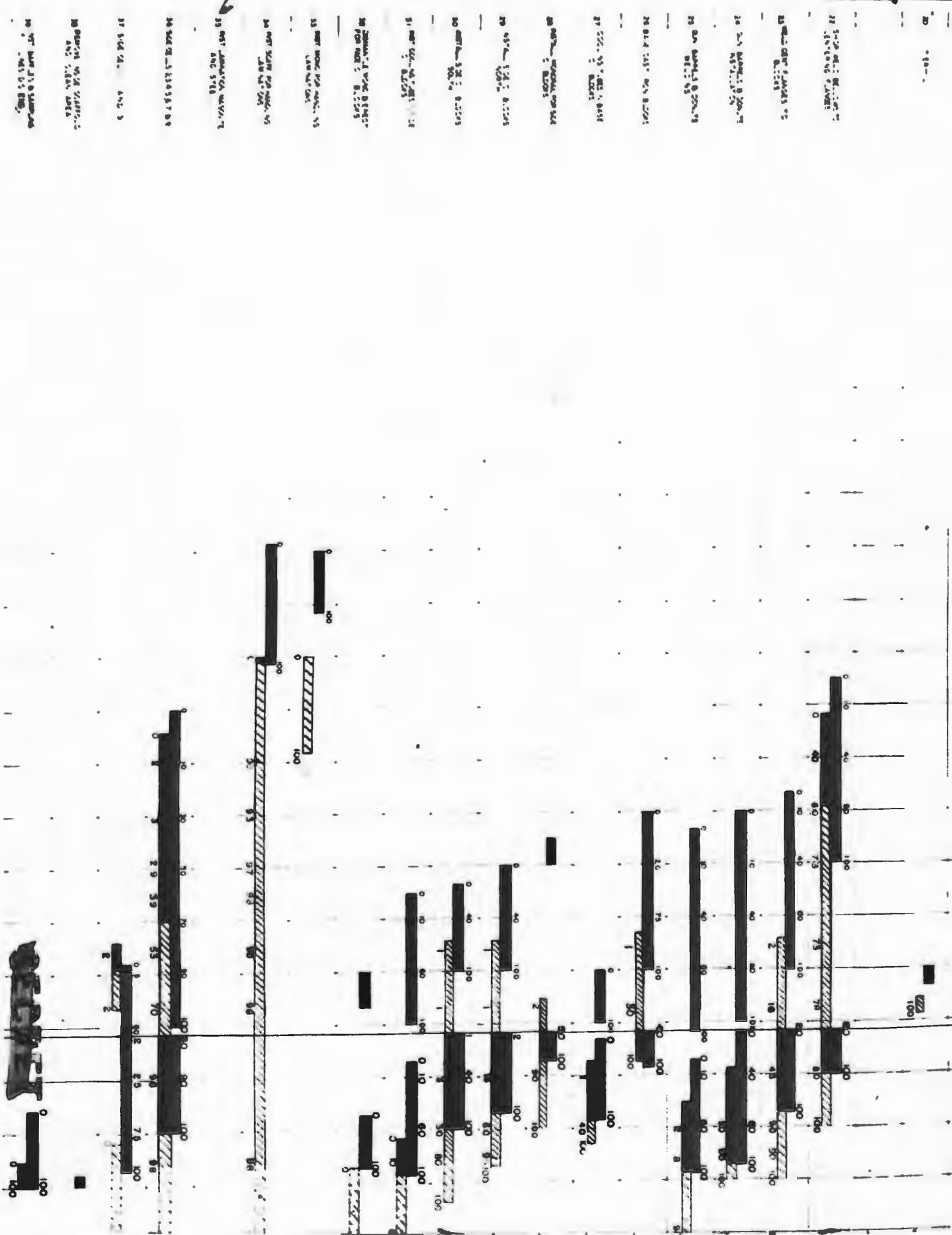
# CONSTRUCTION PROGRESS

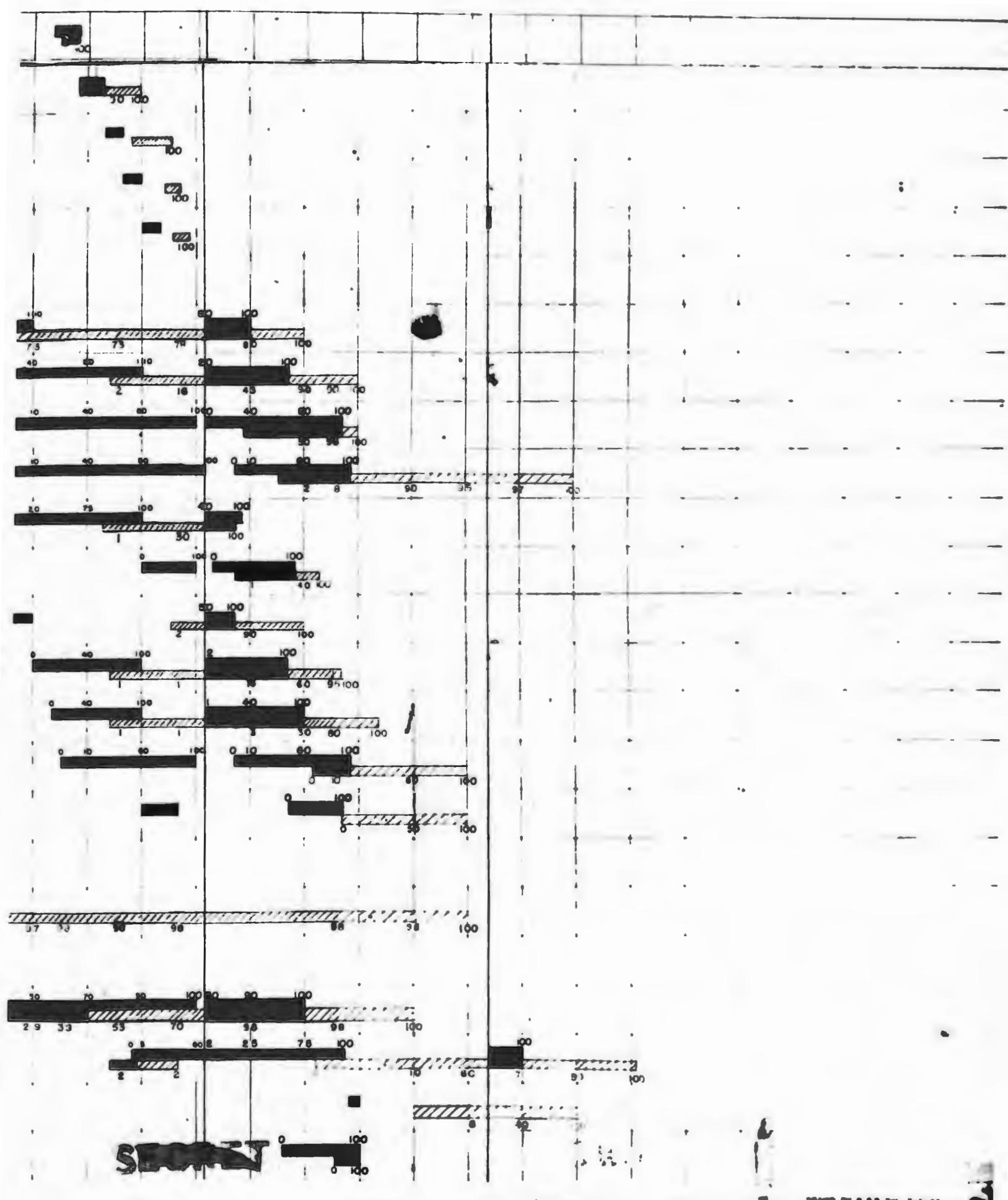
## EQUIPMENT INSTALLATION-105D BUILDING

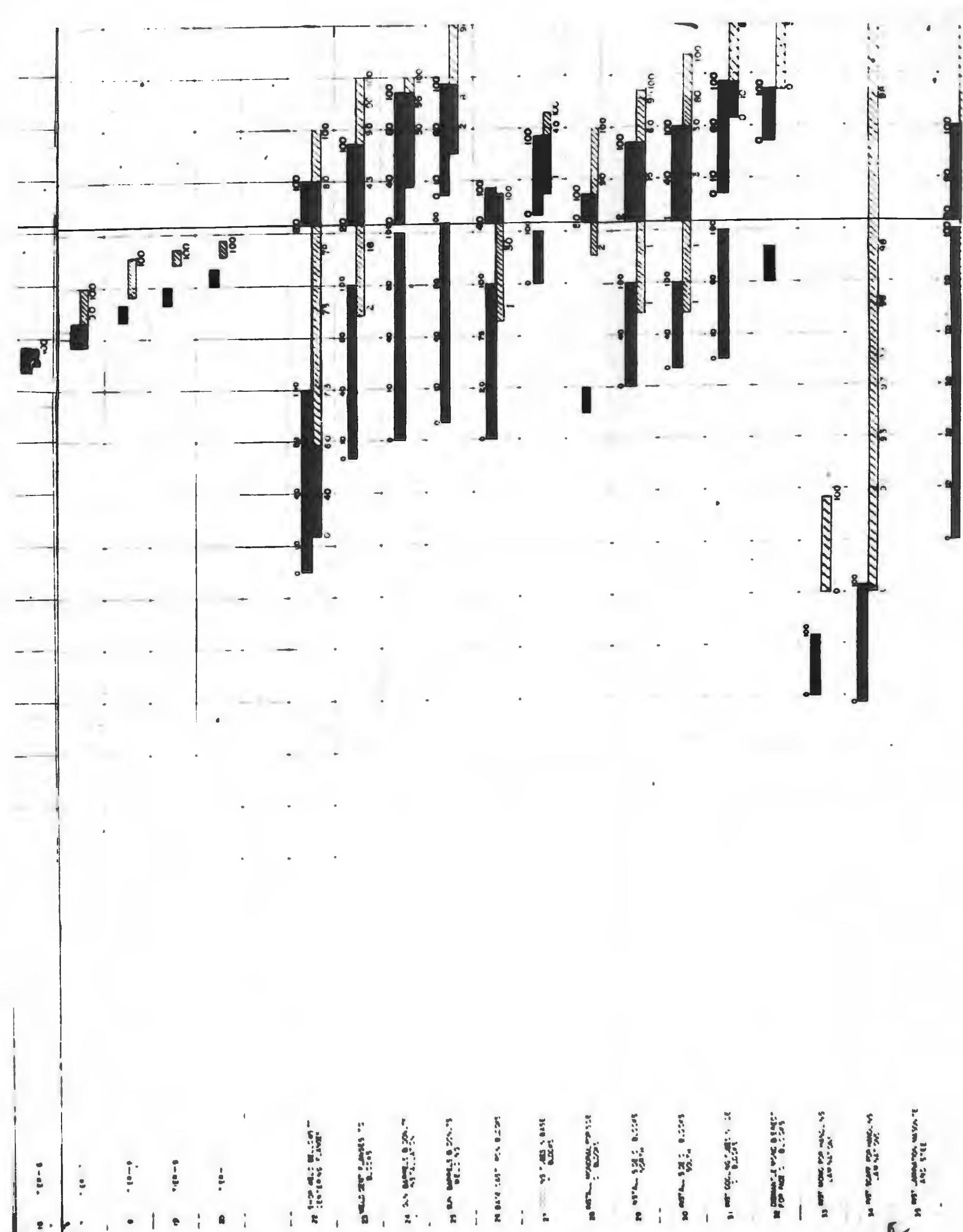
ESTIMATED AND ACTUAL PERCENT COMPLETE

REVISED  
7-24-44









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# CONSTRUCTION EQUIPMENT INSTALLAT

ESTIMATED AND ACTUAL P

LEGEND

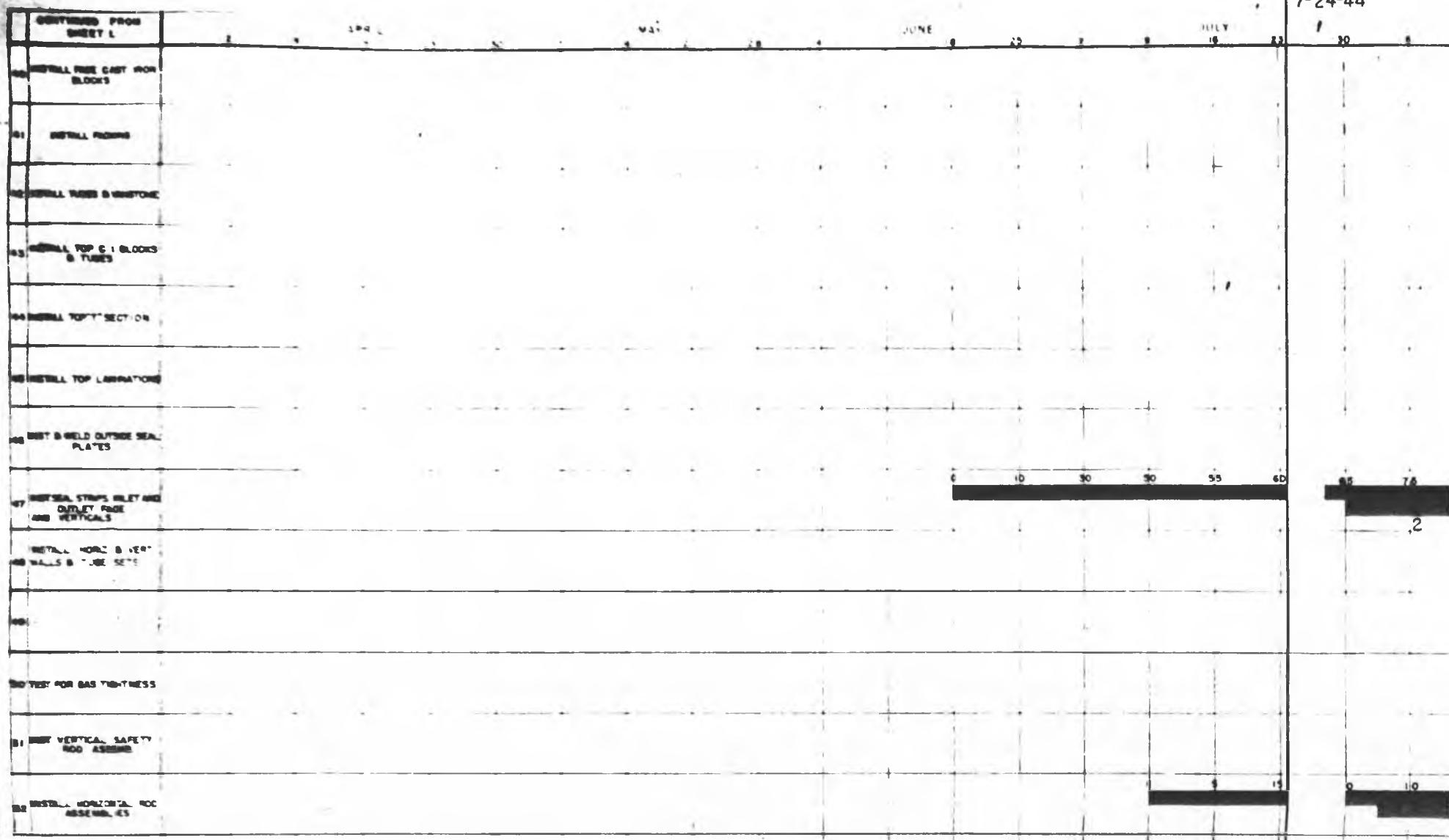
BLACK BARS INDICATE ESTIMATED CONST. SCHEDULE  
RED BARS INDICATE ACTUAL CONST. SCHEDULE

BLACK NUMBERS BELOW BAR INDICATES THAT ACTUAL PERCENT IS EQUAL TO OR AHEAD OF SCHEDULED PERCENT

RED NUMBERS BELOW BAR INDICATES THAT ACTUAL PERCENT IS BEHIND SCHEDULE

 INDICATES NUMBER OF WEEKS FROM LAST SCHEDULE

ORIGINAL

REVISED  
7-24-44





The figure consists of a large grid divided into three main sections. The top section contains numerical labels from 3 to 100. The middle section contains labels from 1 to 100. The bottom section contains labels from 10 to 100. The grid is overlaid with several thick black horizontal bars. One bar spans from approximately x=10 to x=80 across all three sections. Another bar is located in the middle section between x=10 and x=60. A third bar is in the bottom section between x=10 and x=80. There are also several shorter black bars and lines within the grid. Diagonal hatching is present in the top and middle sections.

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\* ITEM 57 COMBINED WITH ITEM 56

**SECRET**

## LEGEND

BLACK BARS INDICATE ESTIMATED CONSTR SCHEDULE  
RED BARS INDICATE ACTUAL SCHEDULE

BLACK NUMBERS BELOW BAR INDICATE THAT ACTUAL PERCENT IS EQUAL TO OR AHEAD OF SCHEDULED PERCENT

REC NUMBERS BELOW PAR INDICATE THAT ACTUAL PERCENT IS BEHIND SCHEDULE

 INDICATES NUMBER OF DAYS  
PROGRESS IS BEHIND SCHEDULE

HANFORD ENGINEER

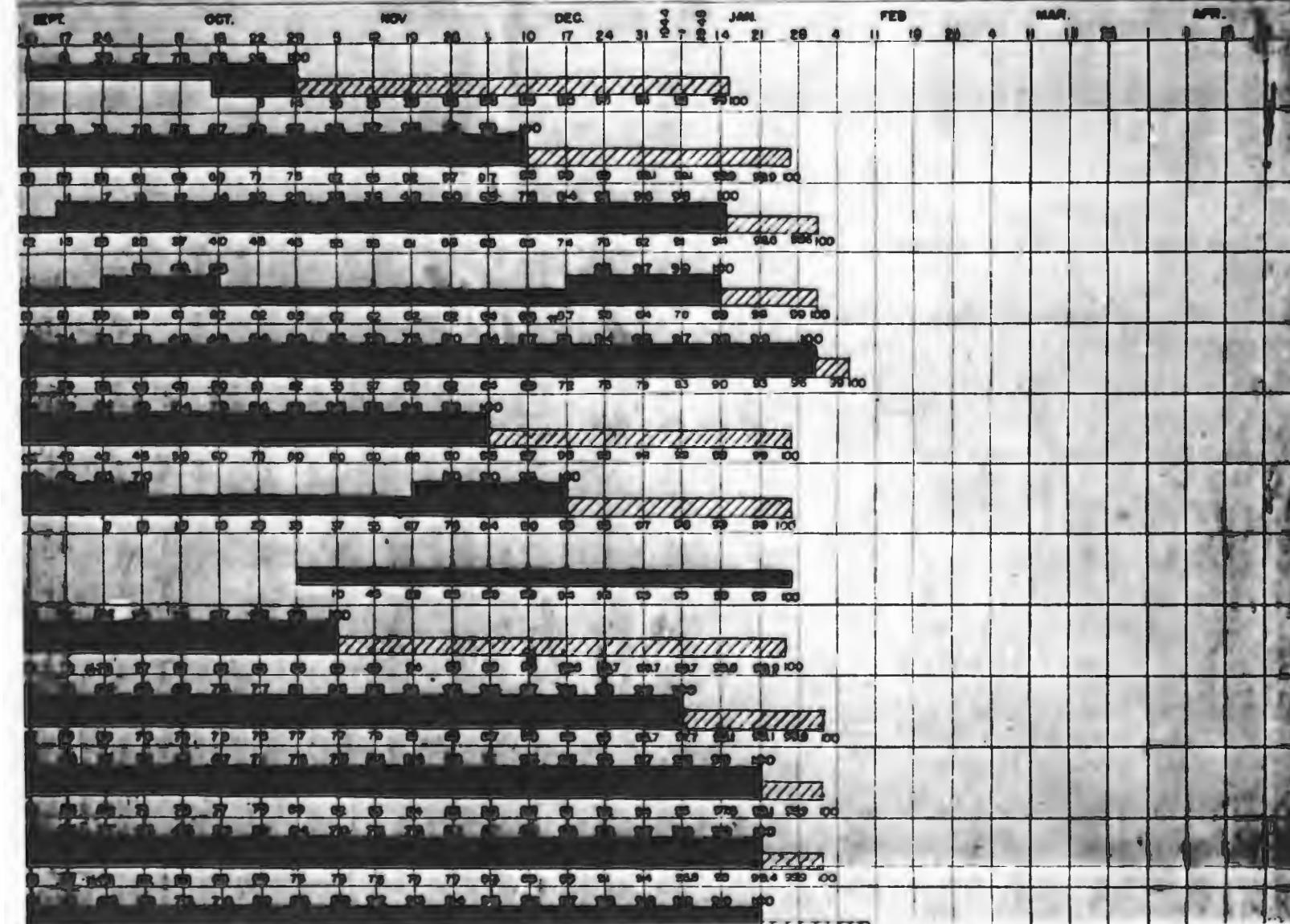
# CONSTRUCTION PR

**BUILDING AND AREA ESTIMATED AND ACTUAL**

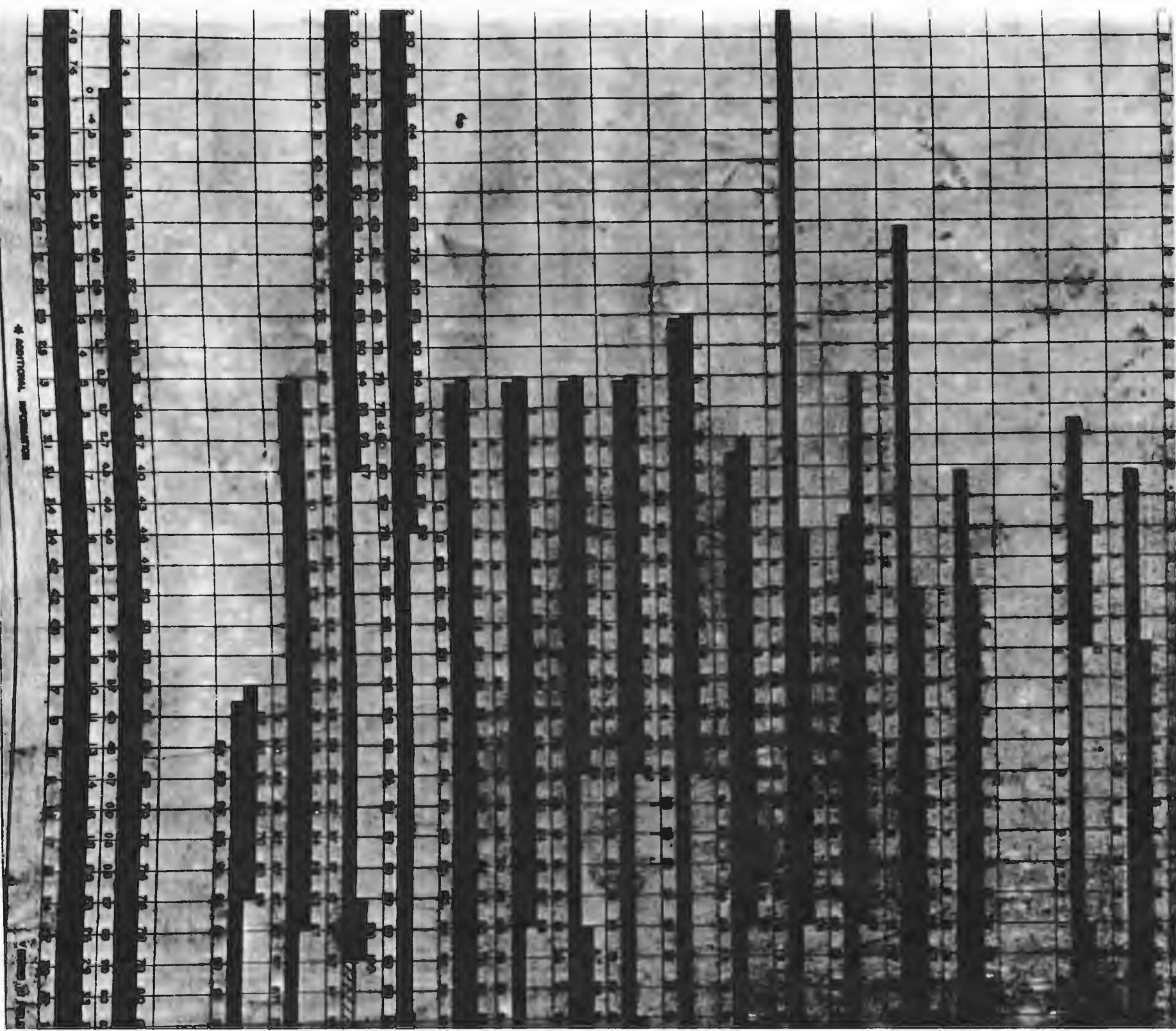
100-F AREA

GRESS

PERCENT COMPLETE



**\* ADDITIONAL INFORMATION**



#### **→ → ADDITIONAL WORK**

**LEGEND**

BLACK BARS INDICATE ESTIMATED CONSTRU. SCHEDULE  
RED BARS INDICATE ACTUAL CONSTR. SCHEDULE

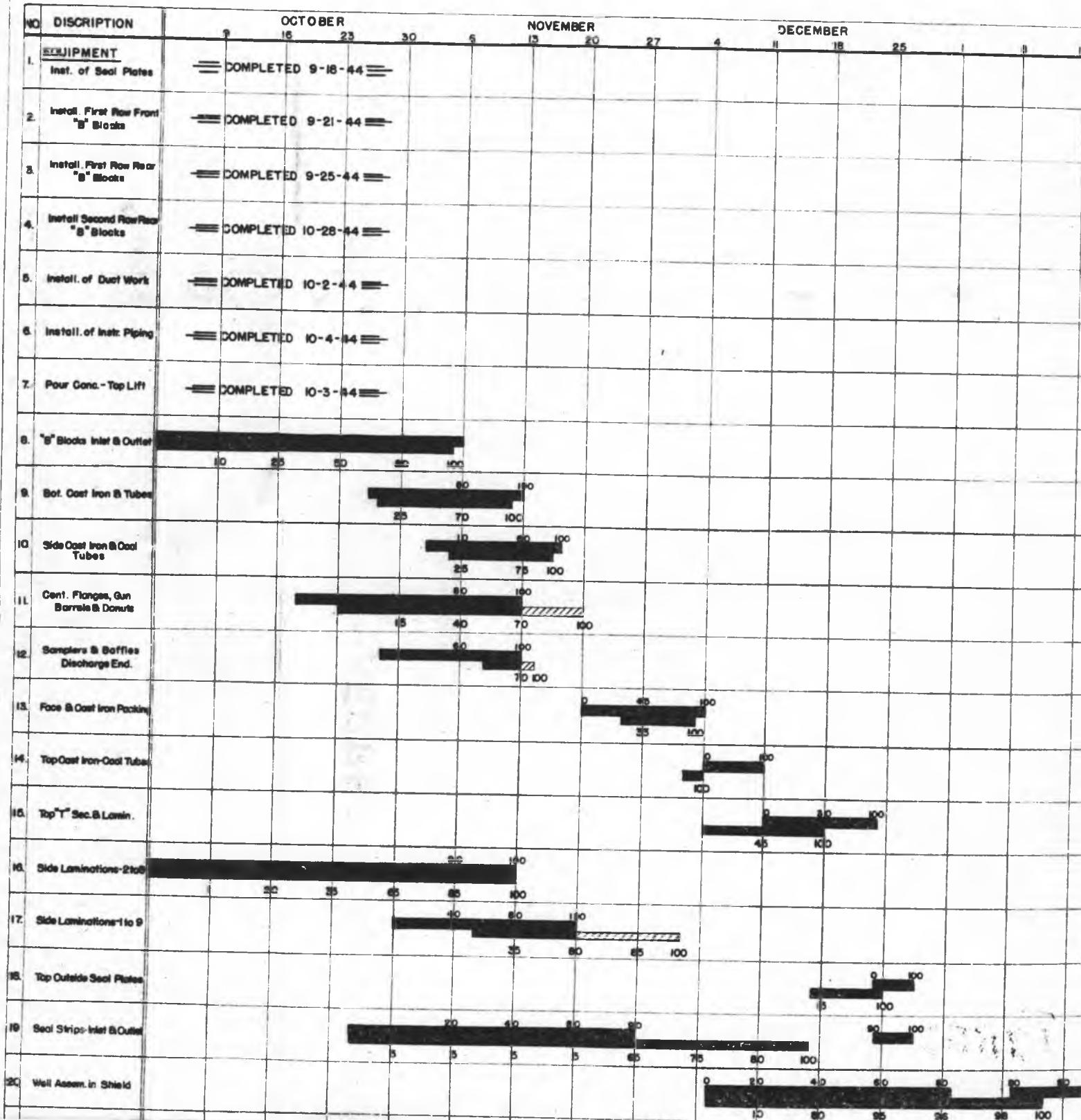
BLACK NUMBERS BELOW BAR INDICATES THAT ACTUAL PERCENT IS EQUAL TO OR AHEAD OF SCHEDULED PERCENT.

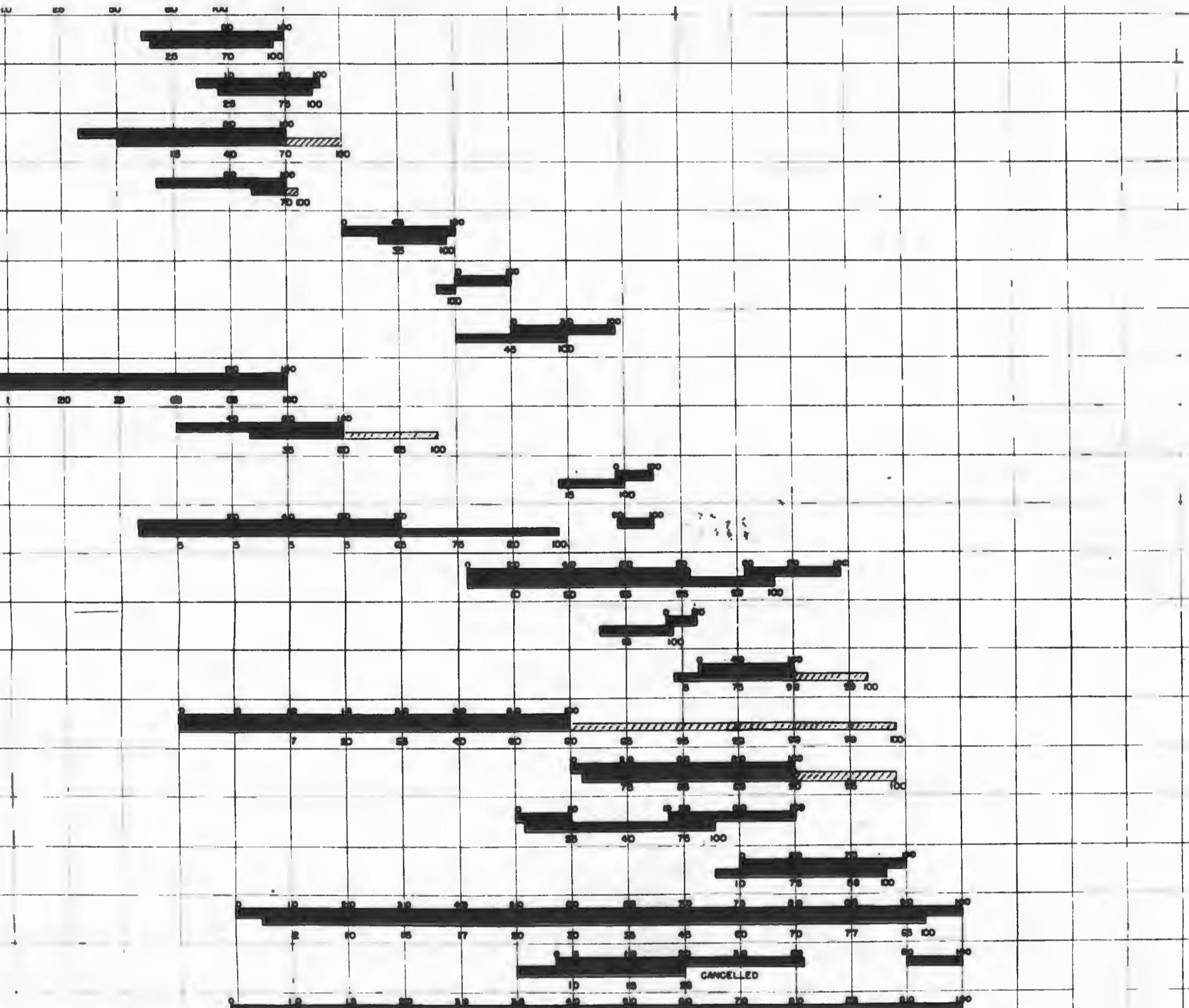
RED NUMBERS BELOW BAR INDICATES THAT ACTUAL PERCENT IS BEHIND SCHEDULE.

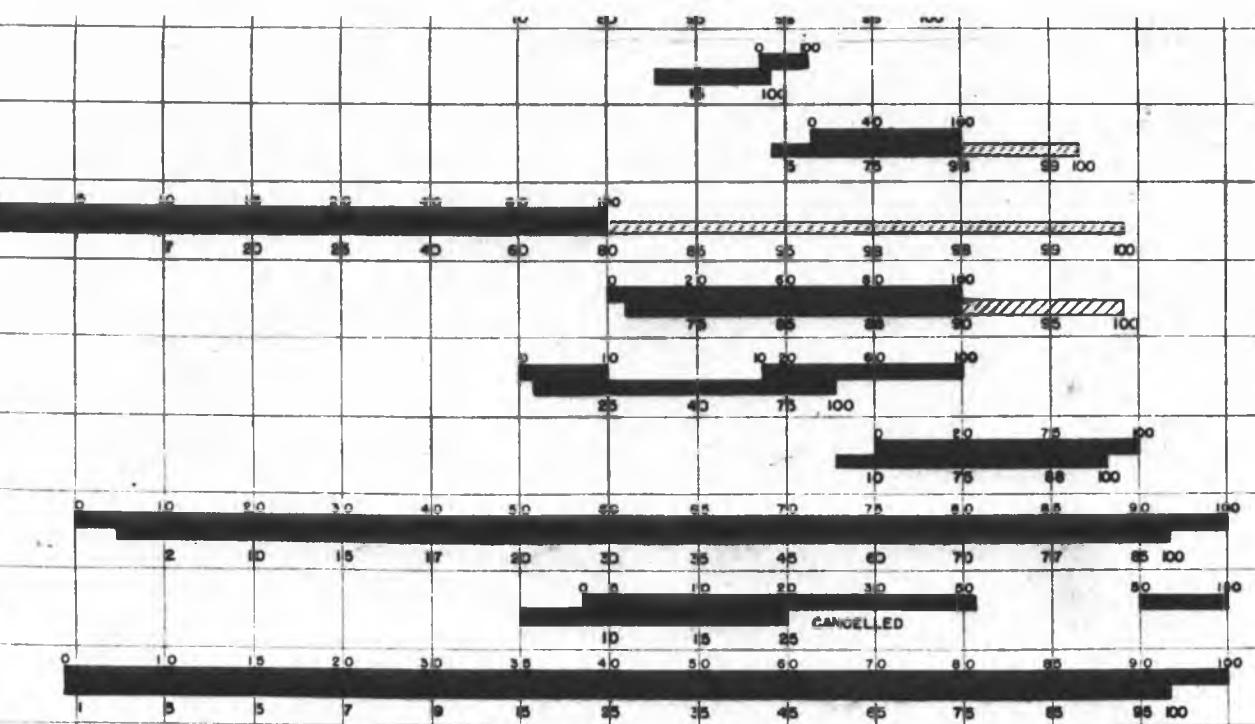
INDICATES NUMBER OF WEEKS PROGRESS IS BEHIND SCHEDULE.

HANFORD ENGINEER WORKS  
PROJECT - 9536

# CONSTRUCTION PROGRESS EQUIPMENT INSTALLATION-I05-F BLDG. ESTIMATED AND ACTUAL PERCENT COMPL.







**PROGRESS OF CONSTRUCTION**  
**BUILDINGS & FACILITIES**  
**100-B AREA**  
**PROJECT 9536**

BUILDING NUMBER	NAME	DESIGN RELEASED	EXCAVATION		FOUNDATIONS		STRUCTURAL STEEL		SUPERSTRUCTURE		EQUIPMENT INSTALLATION		TEST RUNS MAJOR EQUIPMENT		START-UP DATE	COMPLETION DATE	DATE ACCEPTED BY	
			STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE			OPERATION	GOVT.
	Total 100-B area		7/21/43													8/8/44		
100-A-1	Fresh Metal Storage	12/16/43	3/10/44	3/19/44	3/12/44	6/9/44	----	----	4/16/44	6/9/44	----	----	----	----	8/1/44	8/29/44	8/23/44	
100-A-2	Retention Basin	9/6/43	8/27/43	9/20/43	9/6/43	3/26/44	----	----	1/8/44	6/12/44	2/18/44	4/18/44	7/12/44	7/14/44	8/6/44	8/1/44	9/19/44	8/13/44
100-A-3	Chemical Pump House	1/25/44	4/1/44	4/8/44	4/7/44	8/10/44	4/17/44	5/1/44	4/28/44	5/19/44	5/8/44	8/14/44	8/8/44	8/14/44	8/12/44	8/14/44	8/28/44	9/21/44
100-B-1	Gas Storage Tanks	12/10/43	2/8/44	2/13/44	2/18/44	6/18/44	----	----	4/16/44	7/14/44	3/3/44	8/20/44	8/12/44	8/16/44	8/6/44	8/1/44	9/19/44	9/13/44
100-B-2	Test Building	6/17/44	6/26/44	6/30/44	6/30/44	7/20/44	----	----	7/6/44	7/30/44	7/6/44	8/12/44	8/1/44	8/12/44	8/14/44	8/12/44	8/29/44	8/23/44
100-B-3	Purification Building	12/13/43	1/6/44	2/2/44	1/10/44	4/18/44	3/3/44	3/13/44	8/14/44	7/30/44	4/12/44	8/18/44	7/28/44	8/18/44	8/16/44	8/15/44	9/23/44	9/13/44
100-B-4	Primary Substation	12/6/43	1/7/44	1/26/44	1/10/44	5/12/44	3/12/44	3/15/44	3/3/44	6/5/44	6/1/44	6/29/44	6/1/44	6/1/44	8/1/44	8/1/44	12/14/44	11/24/44
100-B-5	100 Secondary Substations	12/16/43	3/27/44	5/19/44	4/12/44	6/12/44	----	----	6/5/44	7/1/44	----	----	8/6/44	7/1/44	7/1/44	8/1/44	12/14/44	11/24/44
100-B-6	Constitution Substation	4/1/44	6/13/44	6/16/44	5/13/44	5/19/44	----	----	5/16/44	6/15/44	6/12/44	8/18/44	6/10/44	7/1/44	7/1/44	7/1/44	12/14/44	11/24/44
100-B-7	Water Pump House	9/13/43	9/6/43	3/6/44	9/11/43	4/23/44	12/19/43	12/20/43	12/29/43	4/16/44	2/25/44	4/18/44	8/1/44	6/18/44	6/1/44	8/1/44	9/28/44	9/21/44
100-B-8	Reservoir and Pump House	8/17/43	8/31/43	9/10/43	9/4/43	4/16/44	1/24/44	7/20/44	2/1/44	6/23/44	4/20/44	6/18/44	6/19/44	7/20/44	6/20/44	8/1/44	9/28/44	9/21/44
100-B-9	Filter Plant	8/31/43	8/31/43	9/20/43	9/6/43	4/9/44	12/19/43	4/8/44	12/29/43	6/18/44	2/13/44	6/9/44	6/28/44	7/4/44	7/6/44	8/1/44	9/28/44	9/21/44
100-B-10	Tower House	6/20/43	10/6/43	10/12/43	10/16/43	12/10/43	12/11/43	1/20/44	12/20/43	6/5/44	11/28/43	6/9/44	5/22/44	6/20/44	7/16/44	8/1/44	9/28/44	9/21/44
100-B-11	Generating Plant	11/15/43	11/26/43	12/6/43	12/6/43	2/1/44	2/10/44	4/5/44	2/20/44	6/5/44	2/18/44	7/28/44	7/25/44	8/1/44	8/6/44	8/3/44	9/28/44	9/21/44
100-B-12	100 Elevated Process Water Tanks	1/6/44	1/26/44	2/3/44	2/4/44	3/20/44	3/24/44	4/8/44	----	----	3/24/44	7/25/44	7/25/44	7/26/44	7/26/44	8/1/44	8/29/44	8/23/44
100-B-13	Am. Disposal Basin	9/30/43	2/9/44	2/13/44	2/13/44	5/19/44	----	----	----	----	----	----	----	----	----	5/24/44	8/29/44	8/23/44
100-B-14	Main Pump House	11/4/43	11/26/43	12/16/43	12/6/43	3/25/44	2/10/44	4/10/44	2/20/44	7/6/44	2/18/44	7/25/44	7/25/44	8/5/44	8/5/44	8/1/44	8/28/44	8/1/44
100-B-15	Street and Road Lighting	12/1/43	10/1/43	----	----	----	----	----	----	----	----	----	----	----	----	9/8/44	12/14/44	12/1/44
100-B-16	Outside Electric Lines	7/12/43	12/20/43	----	----	----	----	----	----	----	----	----	----	----	9/8/44	12/14/44	12/1/44	
100-B-17	Fire Alarm System	12/14/43	6/1/44	----	----	----	----	----	----	----	----	----	----	----	8/15/44	12/14/44	12/1/44	
100-B-18	Telephones and Telephone Cables	12/14/43	1/18/44	----	----	----	----	----	----	----	----	----	----	----	8/15/44	See 506 Building		
100-B-19	Standard Gauge Railroad Track	7/3/43	7/21/43	----	----	----	----	----	----	----	----	----	----	----	8/16/44	8/29/44	8/23/44	
100-B-20	Streets and Walkways	7/3/43	7/21/43	----	----	----	----	----	----	----	----	----	----	----	8/10/44	8/29/44	8/23/44	
100-B-21	Buildings, Inc. (11) Guard Towers	9/2/43	11/1/43	1/25/44	1/8/44	5/19/44	----	----	1/8/44	7/25/44	----	----	----	----	8/1/44	8/28/44	8/1/44	
100-B-22	70 Underground Septic Tanks	10/11/43	1/1/44	1/19/44	2/10/44	5/19/44	----	----	----	----	----	----	----	----	8/11/44	8/18/44	8/15/44	
100-B-23	100 Sanitary Kitchens (Pads)	7/5/43	7/21/43	----	----	----	----	----	----	----	----	----	----	----	8/16/44	8/29/44	8/23/44	
100-B-24	Office and Work Bunking Areas	7/1/43	8/1/44	----	----	----	----	----	----	----	----	----	----	----	8/15/44	8/28/44	8/23/44	
100-B-25	100 General Ventilating Stations	1/20/44	6/7/44	----	----	----	----	----	----	----	----	----	----	----	6/30/44	8/26/44	8/13/44	
100-B-26	100 Emergency Gas Block, Gen. Bunks	5/20/44	6/5/44	----	----	----	----	----	----	----	----	----	----	----	8/15/44	8/16/44	8/15/44	
100-B-27	Gate House and Clock Alley	7/27/43	11/8/43	11/12/43	11/20/43	5/5/44	----	----	3/16/44	6/23/44	6/16/44	6/18/44	----	----	7/1/44	11/3/44	10/31/44	
100-B-28	Supervisory Office Laboratory	9/10/43	11/10/43	11/16/43	11/20/43	6/5/44	----	----	12/11/43	12/13/43	4/12/44	4/15/44	----	----	7/1/44	8/1/44	8/13/44	
100-B-29	Charge Buses	7/5/43	11/10/43	5/2/44	11/20/43	5/23/44	----	----	12/11/43	5/11/44	5/6/44	6/19/44	----	----	7/1/44	11/3/44	10/31/44	
100-B-30	Site Headquarters	1/15/44	2/1/44	2/3/44	2/4/44	3/5/44	----	----	2/10/44	2/12/44	4/12/44	4/26/44	----	----	7/1/44	11/3/44	10/31/44	

**PROGRESS OF CONSTRUCTION  
BUILDINGS & FACILITIES  
100-B AREA  
PROJECT 9536**

BUILDING NUMBER	NAME	DESIGN RELEASED	EXCAVATION		FOUNDATIONS		STRUCTURAL STEEL		SUPERSTRUCTURE		EQUIPMENT INSTALLATION		TEST RUNS MAJOR EQUIPMENT		START-UP DATE	COMPLETION DATE	DATE ACCEPTED BY	
			STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE			OPERATION	GOVT.
1713-B	Warehouses	8/29/43	11/22/43	11/28/43	11/26/43	4/28/44	—	—	3/10/44	3/14/44	—	—	—	—	7/1/44	10/2/44	9/13/44	
•1713-RA	Storehouse - Essential Materials	8/15/43	10/10/43	—	—	—	—	—	—	—	—	—	—	—	—	1/21/44	10/26/44	10/23/44
•1713-RB	Storehouse - Mine., Storage	8/15/43	9/16/43	—	—	—	—	—	—	—	—	—	—	—	—	12/10/43	10/26/44	10/23/44
1714-B	Oil and Paint Storage	8/28/43	11/10/43	11/12/43	11/14/43	11/20/43	—	—	12/6/43	12/10/43	—	—	—	—	—	7/1/44	11/3/44	10/31/44
1716-B	Automotive Repair Shop	10/15/43	8/29/44	4/2/44	4/2/44	6/2/44	—	—	4/12/44	4/16/44	—	—	—	—	—	7/1/44	9/25/44	9/13/44
1717-B	Combined Shops	10/8/43	12/6/43	12/12/43	12/11/43	12/18/43	4/8/44	4/10/44	3/8/44	4/6/44	4/12/44	8/6/44	—	—	—	7/20/44	8/6/44	11/3/44
1719-B	First Aid Building	7/8/43	9/1/43	9/3/43	9/4/43	10/2/43	—	—	9/26/43	11/20/43	10/2/43	7/22/44	—	—	—	6/1/44	7/28/44	7/13/44
1720-B	Patrol Headquarters	8/23/43	10/8/43	10/18/43	10/18/43	10/23/43	—	—	10/18/43	10/22/43	7/6/44	7/10/44	—	—	—	6/1/44	11/3/44	10/31/44
1722-B	Area Shops	8/23/43	11/10/43	11/15/43	11/20/43	5/8/44	—	—	12/25/43	11/23/43	6/6/44	5/10/44	—	—	—	6/1/44	11/3/44	10/31/44
•1722-RA	Shop Electrical	4/23/43	11/11/43	—	—	—	—	—	—	—	—	—	—	—	—	12/15/44	10/26/44	10/23/44
•1723-B	Extra Machinery Storage	8/30/43	10/23/43	—	—	—	—	—	—	—	—	—	—	—	—	12/15/44	10/26/44	10/23/44
1734-B	Gas Cylinder Storage	8/23/43	11/10/43	11/20/43	12/20/43	12/11/43	—	—	11/20/43	5/6/44	—	—	—	—	—	6/1/44	10/2/44	9/13/44
1801-B	Pipe Supports	10/30/43	1/22/44	7/18/44	—	—	7/16/44	7/22/44	—	—	—	—	—	—	—	8/1/44	6/18/44	8/16/44
1802-B	Steam Lines	3/8/44	3/29/44	7/16/44	—	—	—	—	—	—	—	—	7/16/44	7/22/44	7/18/44	8/1/44	6/29/44	8/23/44
1803-B	Air Lines	3/8/44	7/15/44	—	—	—	—	—	—	—	—	—	—	—	—	7/18/44	6/29/44	8/23/44
1805-B	Process Lines	11/6/43	7/5/44	7/20/44	—	—	—	—	—	—	—	—	7/25/44	7/28/44	8/1/44	6/5/44	6/29/44	8/23/44
1901-B	Outside Water Lines	11/16/43	3/29/44	8/20/44	—	—	—	—	—	—	—	—	8/1/44	7/30/44	8/1/44	8/1/44	6/29/44	8/23/44
1902-B	Fire Lines	10/18/43	1/1/44	7/10/44	—	—	—	—	—	—	—	—	8/1/44	7/30/44	8/1/44	8/1/44	6/29/44	8/23/44
1903-B	Sanitary Sewers	12/14/43	1/1/44	8/6/44	—	—	—	—	—	—	—	—	8/1/44	6/15/44	8/1/44	8/1/44	6/29/44	8/23/44
1904-B	Process Sewers	12/14/43	12/26/43	3/18/44	—	—	—	—	—	—	—	—	8/1/44	6/2/44	8/1/44	8/1/44	6/26/44	9/13/44

\*Denotes Temporary Construction Taken Over by Operations for Permanent Use.

NOTE: The dates shown on this sheet reflect the time at which the various interim stages of construction were essentially complete. In some cases these dates will vary slightly from the final date carried in the weekly Progress Report.

**PROGRESS CONSTRUCTION**  
**BUILDINGS & FACILITIES**  
**100-D AREA**  
**PROJECT 9536**

BUILDING NUMBER	NAME	DESIGN RELEASED	EXCAVATION		FOUNDATIONS		STRUCTURAL STEEL		SUPERSTRUCTURE		EQUIPMENT INSTALLATION		TEST RUNS MAJOR EQUIPMENT		START-UP DATE	COMPLETION DATE	DATE ACCEPTED BY		
			STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE			OPERATION	GOVT.	
	Total 100-D Area		11/1/43														12/4/44		
103-D	Fresh Metal Storage	6/11/43	10/1/44	10/5/44	10/5/44	11/3/44	---	---	11/1/44	11/12/44	---	---	---	---	11/28/44	11/14/44	11/30/44	11/21/44	
107-D	Retention Basin	7/27/43	11/17/44	2/21/44	4/27/44	6/21/44	---	---	5/31/44	10/13/44	10/1/44	11/6/44	11/16/44	12/17/44	10/24/44	11/30/44	11/21/44		
108-D	Chemical Pump House	8/22/44	5/30/44	6/24/44	6/24/44	6/31/44	8/31/44	9/3/44	7/3/44	11/6/44	7/7/44	11/11/44	11/14/44	11/21/44	11/29/44	11/1/44	11/29/44		
110-D	Gas Storage Tanks	7/3/43	5/27/44	---	---	---	---	---	---	---	---	---	---	---	11/29/44	11/1/44	1/2/45	11/29/44	
116-D	Purification Building	1/4/44	3/25/44	3/30/44	4/13/44	5/6/44	7/26/44	7/27/44	5/24/44	6/25/44	8/28/44	11/10/44	10/4/44	11/23/44	12/5/44	11/26/44	12/6/44		
161-D	Primary Substation	12/18/43	2/6/44	6/8/44	8/14/44	5/15/44	6/28/44	6/30/44	---	---	3/7/44	11/1/44	---	---	8/24/44	11/15/44	1/4/45	12/14/44	
162-D	(12) Secondary Substations	1/20/44	7/10/44	---	---	---	---	---	---	---	---	---	---	---	8/24/44	12/1/44	1/4/45	12/14/44	
153-D	Distribution Substation	3/31/44	7/25/44	---	---	---	---	---	---	---	---	---	---	---	8/24/44	12/1/44	1/4/45	12/14/44	
181-D	River Pump House	9/18/43	11/11/43	1/17/44	1/18/43	8/1/44	4/1/44	8/1/44	6/23/44	9/23/44	4/17/44	9/22/44	9/3/44	9/24/44	9/10/44	10/15/44	1/4/45	12/14/44	
182-D	Reservoir & Pump House	12/6/43	11/8/43	4/21/44	4/12/44	6/19/44	---	---	4/25/44	10/19/44	6/21/44	10/11/44	8/18/44	10/18/44	9/11/44	10/20/44	11/30/44	11/21/44	
183-D	Filter Plant	8/11/43	11/1/43	11/30/43	3/13/44	6/7/44	7/19/44	6/8/44	4/18/44	11/8/44	7/22/44	11/8/44	9/11/44	10/30/44	10/15/44	11/20/44	1/2/45	12/20/44	
184-D	Power House	8/19/43	11/18/43	5/2/44	12/18/43	8/5/44	8/5/44	8/15/44	3/27/44	11/4/44	2/25/44	11/3/44	8/1/44	11/15/44	11/22/44	10/20/44	1/2/45	12/20/44	
186-D	Degassing Plant	11/22/43	2/18/44	4/10/44	4/9/44	5/1/44	4/25/44	7/3/44	4/9/44	9/16/44	5/20/44	11/24/44	11/4/44	11/27/44	11/29/44	11/30/44	1/2/45	11/30/44	
186-D	Water Treatment Plant	10/11/43	12/13/43	4/12/44	4/9/44	6/1/44	6/14/44	7/28/44	5/6/44	11/13/44	6/28/44	12/1/44	11/6/44	12/1/44	12/1/44	12/1/44	1/2/45	11/30/44	
127-D	(2) Elevated Process Water Tanks	1/13/44	6/22/44	6/10/44	6/13/44	6/23/44	6/6/44	9/1/44	---	---	4/1/44	10/20/44	10/20/44	11/10/44	11/15/44	12/1/44	1/2/45	12/18/44	
188-D	Amb Disposal Basin	10/6/43	4/10/44	---	---	---	---	---	---	---	---	---	---	---	9/15/44	9/20/44	10/30/44	10/23/44	
189-D	Refrigeration Building	11/22/43	2/18/44	3/16/44	3/18/44	6/16/44	6/18/44	7/6/44	6/16/44	8/26/44	7/26/44	11/28/44	10/4/44	11/28/44	11/30/44	1/2/45	12/1/44		
190-D	Main Pump House	11/22/43	2/8/44	3/18/44	3/14/44	5/11/44	4/12/44	6/29/44	5/12/44	11/22/44	6/14/44	11/24/44	11/4/44	11/27/44	11/29/44	11/30/44	1/2/45	12/20/44	
1b01-D	Fence & Head Lighting	1/19/44	10/15/43	---	---	---	---	---	---	---	---	---	---	---	11/26/44	1/2/45	12/20/44		
01b03-D	Outside Electric Lines	7/18/43	1/4/44	---	---	---	---	---	---	---	---	---	---	---	11/1/44	1/2/45	12/14/44		
1b06-D	Fire Alarm System	1/13/44	10/51/44	---	---	---	---	---	---	---	---	---	---	---	12/1/44	1/2/45	12/14/44		
1506-D	Telephones & Telephone Cables	1/13/44	8/16/43	---	---	---	---	---	---	---	---	---	---	---	11/28/44	1/2/45	12/14/44		
1601-L	Standard Gauge Railroad Track	9/17/43	10/19/43	---	---	---	---	---	---	---	---	---	---	---	12/9/44	See 506 Ldg.			
1603-D	Roads & Walks	9/17/43	9/21/43	---	---	---	---	---	---	---	---	---	---	---	11/7/44	11/28/44	11/17/44		
1806-D	Fence Incl. (10) Guard Towers	10/13/43	12/20/43	---	---	---	---	---	---	---	---	---	---	---	11/10/44	12/6/44	12/1/44		
1807-D	(5) Underground Septic Tanks	10/18/43	3/16/44	---	---	---	---	---	---	---	---	---	---	---	11/1/44	12/27/44	12/18/44		
1608-D	Process Waste Lift Station	12/30/43	1/20/44	---	---	---	---	---	---	---	---	---	---	---	9/15/44	12/27/44	10/23/44		
1613-D	Auto and Bus Parking Areas	4/17/44	8/9/44	---	---	---	---	---	---	---	---	---	---	---	11/1/44	11/28/44	11/17/44		
1614-D	(3) General Monitoring Stations	1/20/44	6/1/44	---	---	---	---	---	---	---	---	---	---	---	9/22/44	12/4/44	11/11/44		
1621-D	(3) Emergency Gas Elec. Gen. Bldgs.	5/20/44	6/3/44	---	---	---	---	---	---	---	---	---	---	---	10/18/44	11/12/44	11/1/44		
1701-D	Date House & Clock Alley	7/31/43	5/3/44	5/10/44	5/12/44	6/30/44	---	---	5/28/44	9/22/44	9/1/44	9/29/44	---	---	---	9/29/44	12/27/44	12/20/44	
1704-D	Supervisors' Office	7/13/43	12/20/43	12/28/44	12/31/43	8/28/44	---	---	6/12/44	11/10/44	9/18/44	11/10/44	---	---	---	11/6/44	11/28/44	11/11/44	
1707-D	(2) Commer houses	6/9/43	7/3/44	7/6/44	7/5/44	7/11/44	---	---	7/11/44	9/22/44	9/20/44	10/8/44	---	---	---	10/15/44	12/27/44	12/18/44	
1709-D	Fire Headquarters	1/20/44	3/21/44	3/28/44	3/28/44	4/8/44	---	---	4/8/44	6/10/44	9/28/44	10/8/44	---	---	---	10/14/44	12/6/44	11/11/44	

**SECRET**

**SECRET**

**PROGRESS OF CONSTRUCTION  
BUILDINGS & FACILITIES  
100-D AREA  
PROJECT 9536**

BUILDING NUMBER	NAME	DESIGN RELEASED	EXCAVATION		FOUNDATIONS		STRUCTURAL STEEL		SUPERSTRUCTURE		EQUIPMENT INSTALLATION		TEST RUNS MAJOR EQUIPMENT		START-UP DATE	COMPLETION DATE	ACCEPTED BY		
			STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	OPERATION	GOVT			
1713-D	Storeroom	6/30/43	4/12/44	4/16/44	5/8/44	5/12/44	-----	-----	5/25/44	9/5/44	-----	-----	-----	-----	-----	10-9-44	11-15-44	11-15-44	
*1713-DA	Storeroom, Essential Material	5/15/44	12/16/43	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	4/7/44	10-6-44	10-6-44	
1716-D	Gil and Paint Storage	6/30/43	7/17/44	7/17/44	7/19/44	7/19/44	-----	-----	7/19/44	9/5/44	-----	-----	-----	-----	-----	-----	10-9-44	10-27-44	10-27-44
1716-D	Automotive Repair Shop	10/18/43	11/26/43	11/27/44	11/27/43	12/3/43	-----	-----	12/16/43	4/28/44	10/5/44	10/27/44	-----	-----	-----	-----	10-27/44	11-4-44	11-15-44
1717-D	Combined Shops	10/6/43	5/30/44	6/2/44	6/1/44	7/1/44	-----	-----	6/20/44	10/27/44	7/25/44	11/31/44	-----	-----	-----	-----	11-31/44	10-6-44	10-15-44
1718-D	First Aid Building	6/5/43	11/25/43	11/26/43	11/27/43	12/3/43	-----	-----	12/13/43	9/22/44	9/16/44	9/22/44	-----	-----	-----	-----	10-18-44	10-7-44	10-27-44
1720-D	Patrol Headquarters	7/6/43	12/10/43	12/16/44	2/7/44	3/6/44	-----	-----	3/2/44	4/14/44	3/20/44	7/28/44	-----	-----	-----	-----	10-18-44	10-27-44	10-27-44
1722-D	Area Shops	6/30/43	6/12/44	6/13/44	6/13/44	7/6/44	-----	-----	6/20/44	10/6/44	-----	-----	-----	-----	-----	-----	8-1-44	10-7-44	10-15-44
*1722-JA	Electrical Shop	4/23/43	12/12/43	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	8-1-44	10-5-44	10-15-44
*1729-D	Extra Machinery Storage	4/25/43	12/31/43	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	4-7-44	11-7-44	11-15-44
1734-D	Gas Cylinder Storage	5/31/43	7/17/44	7/17/44	7/17/44	7/20/44	-----	-----	7/20/44	3/1/44	-----	-----	-----	-----	-----	-----	8-1-44	11-7-44	10-27-44
*1735-D	Training Headquarters	5/16/43	11/17/43	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	10-1-44	11-6-44	11-15-44
1801-D	Pipe Supports	7/19/44	5/8/44	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	10-18-44	10-1-44	10-15-44
1802-D	Steam Lines	1/3/44	8/21/44	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	10-18-44	10-1-44	10-15-44
1803-D	Air Lines	1/3/44	10/9/44	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	10-18-44	10-1-44	10-15-44
1806-D	Process Lines	1/3/44	8/28/44	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	10-1-44	11-1-44	11-15-44
1801-D	Outside Water Lines	9/29/43	12/1/43	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	10-18-44	11-4-44	11-15-44
1802-D	Fire Lines	10/2/43	12/14/43	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	10-1-44	11-1-44	11-15-44
1803-D	Sanitary Sewers	12/13/43	3/14/44	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	10-1-44	11-1-44	11-15-44
1804-D	Process Sewers	12/30/43	1/20/44	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	10-11-44	11-70/44	11-15-44

\*T.C. Building Transferred to Operations and Assigned Permanent Building Numbers.

NOTE: The dates shown on this sheet reflect the time at which the various interim stages of construction were essentially complete. In some cases these dates will vary slightly from the final date carried in the weekly Progress Report.

**SECRET**

**PROGRESS OF CONSTRUCTION  
BUILDINGS & FACILITIES  
100-F AREA  
PROJECT 9536**

BUILDING NUMBER	NAME	DESIGN RELEASED	EXCAVATION		FOUNDATIONS		STRUCTURAL STEEL		SUPERSTRUCTURE		EQUIPMENT INSTALLATION		TEST RUNS MAJOR EQUIPMENT		START-UP DATE	COMPLETION DATE	DATE ACCEPTED BY			
			STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE			OPERATION	GOV'T.		
	TOTAL 100-F AREA		12/21/43													2/10/45				
100-F	Boron Metal Storage	3/6/44	10/14/44	10/17/44	10/18/44	10/21/44			10/23/44	1/8/45						1/13/45	2/8/45	2/1/45		
100-F	Retention Basin	12/5/43	2/10/44	6/10/44	8/7/44	10/18/44			10/8/44	10/11/44	11/1/44	1/18/45	1/20/45	1/27/45		1/27/45	2/8/45	2/1/45		
100-F	Chemical Pump House	8/6/44	8/12/44	8/22/44	8/21/44	10/12/44	9/8/44	9/28/44	9/8/44	11/8/44	9/22/44	1/22/45	1/18/45	1/27/45		1/27/45	2/8/45	2/1/45		
100-F	Gas Storage Tanks	4/3/44	7/14/44	7/17/44	7/17/44	7/22/44				9/10/44	9/18/44	7/26/44	1/18/45	2/10/45		1/20/45	1/27/45	2/5/45	2/1/45	
100-F	Purification Building	4/6/44	4/26/44	6/3/44	7/19/44	10/20/44					9/4/44	2/8/45	9/18/44	1/18/45	2/10/45		1/20/45	2/11/45	2/7/45	
100-F	Primary Substation	12/16/43	3/20/44										2/1/45			1/22/45	2/10/45	2/11/45	2/7/45	
100-F	Secondary Substations (11)	1/4/44	8/25/44													11/10/44	1/27/45	2/18/45	2/12/45	
100-F	Distribution Substation	3/31/44	10/30/44													1/10/45	1/27/45	2/19/45	2/12/45	
100-F	Water Pump House	11/2/43	12/28/43	2/6/44	2/6/44	4/2/44	8/1/44	8/8/44	4/23/44	10/18/44	5/30/44	12/8/44	12/18/44	1/12/45	12/18/44	1/16/45	2/6/45	2/1/45		
100-F	Reservoir and Pump House	12/5/43	1/21/44	2/16/44	6/7/44	10/20/44	7/18/44	8/1/44	8/30/44	12/28/44	9/11/44	1/10/45	1/8/45	1/27/45	1/8/45	1/27/45	2/6/45	2/1/45		
100-F	Filter Plant	11/6/43	3/6/44	4/20/44	6/5/44	10/13/44	8/20/44	10/10/44	7/10/44	1/5/45	7/21/44	1/12/45	1/27/45	1/8/45	1/27/45	2/6/45	2/1/45			
100-F	Power House	8/6/43	1/20/44	5/10/44	5/8/44	6/30/44	6/28/44	8/28/44	6/28/44	1/3/45	6/12/44	1/82/45	12/28/44	1/27/45	1/8/45	1/27/45	2/6/45	2/1/45		
100-F	Generating Plant	11/19/43	4/24/44	5/3/44	6/28/44	9/18/44	7/20/44	9/20/44	7/20/44	1/18/45	9/8/44	1/83/45	1/20/45	2/10/45	12/26/44	1/27/45	2/6/45	2/1/45		
100-F	Elevated Water (Process) Tanks (2)	12/2/43	4/6/44	4/17/44	4/17/44	6/12/44	8/6/44	11/3/44	8/6/44	11/8/44	8/15/44	1/81/45	1/12/45	1/18/45	1/12/45	1/18/45	2/12/45	2/12/45		
100-F	Aux Dispersal Main	10/19/43	10/16/44	10/19/44												1/12/45	1/18/45	2/6/45	2/1/45	
100-F	Distillation Building	11/2/43	4/24/44	5/4/44	6/12/44	8/21/44	8/1/44	9/18/44	7/6/44	1/3/45	7/21/44	1/12/45	1/27/45	1/8/45	1/27/45	2/6/45	2/1/45			
100-F	Main Pump House	11/21/43	4/21/44	5/4/44	6/24/44	10/6/44	7/6/44	9/18/44	7/6/44	1/3/45	7/21/44	2/2/45	2/1/45	2/10/45	1/28/45	2/10/45	2/12/45	2/12/45		
100-F	Fence and Road Lighting	11/21/43	4/21/44	5/4/44	6/24/44	10/6/44	7/6/44	9/18/44	7/6/44	1/3/45	7/21/44	2/2/45	2/1/45	2/10/45	2/1/45	2/12/45	2/12/45			
100-F	Outside Electric Lines	2/23/44	8/1/44													1/27/45	2/10/45	2/12/45		
100-F	Fire Alarm System	2/15/44	8/1/44													1/10/45	1/27/45	2/19/45	2/12/45	
100-F	Telephone and Telephone Cables	6/20/44	8/1/44													2/10/45	1/27/45	2/19/45	2/12/45	
100-F	Standard Gauge Railroad Track	9/12/43	3/16/44	1/12/45													2/10/45	(See Building 9608)		
100-F	Crane and Hoists	9/10/43	3/13/44	1/18/45														2/6/45	2/1/45	
100-F	Refuge Inc., Guard Towers	11/6/43	1/10/44	1/28/44													2/1/45	2/6/45	2/1/45	
100-F	Underground Septic Tanks (5)	11/4/43	3/15/44	3/25/44	6/1/45	3/11/44					3/20/44	10/16/44					1/16/45	2/12/45	2/12/45	
100-F	Process Water Line Section	6/24/44	6/25/44														10/16/44	2/6/45	2/1/45	
100-F	Open Drainage Latches	4/4/44	4/2/44	8/27/44													1/31/45	2/3/45	2/6/45	
100-F	Office and Bus Parking Area	1/1/44	3/15/44														1/16/45	2/4/45	2/1/45	
100-F	General Refining Structures (3)	7/1/44															1/3/45	3/20/45	3/10/45	
100-F	Emergency Generator Building (2)	2/3/44	6/15/44	6/17/44	6/10/44	6/23/44				7/4/44	11/6/44	10/20/44	2/10/45				1/13/45	2/15/45	2/1/45	
100-F	Site Garage and Clear Alley	1/2/44	4/3/44	4/2/44	5/15/44	5/21/44				6/26/44	7/25/44	7/18/44	7/21/44				7/21/44	1/13/45	2/1/45	
100-F	Concrete Pad (1)	10/23/43	11/25/43	1/5/44	4/3/44	5/20/44				5/22/44	1/3/45	10/6/44	1/10/45					1/13/45	2/6/45	2/1/45
100-F	Concrete Pad (2)	1/2/44	4/2/44	4/20/44	5/12/44				5/22/44	1/3/45	10/20/44	9/22/44	1/8/45					1/13/45	2/6/45	2/1/45
100-F	Recessed Footings	1/4/44	3/20/44	3/25/44	4/25/44	4/25/44				5/22/44	1/3/45	11/6/44	1/5/45					1/13/45	2/1/45	2/1/45

**SECRET**

**PROGRESS OF CONSTRUCTION  
BUILDINGS & FACILITIES  
100-F AREA**

PROJECT 9536

BUILDING NUMBER	NAME	DESIGN RELEASED	EXCAVATION		FOUNDATIONS		STRUCTURAL STEEL		SUPERSTRUCTURE		EQUIPMENT INSTALLATION		TEST RUNS MAJOR EQUIPMENT		START-UP DATE	COMPLETION DATE	DATE ACCEPTED BY	
			STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE			OPERATION	GOVT
1713-F	Storehouse	3/12/44	3/30/44	4/6/44	5/20/44	6/2/44	-----	-----	6/2/44	11/6/44	-----	-----	-----	-----	-----	1/15/45	2/2/45	2/1/45
1713-FA	Storehouse Essential Material	-----	5/16/44	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1/22/45	2/3/45	2/1/45
1716-F	Cil and Paint Storage	5/18/44	3/30/44	4/1/44	5/12/44	6/9/44	-----	-----	6/9/44	1/15/44	-----	-----	-----	-----	-----	1/15/45	2/5/45	2/1/45
1718-F	Bus Parking Station	5/18/44	3/30/44	4/6/44	5/19/44	5/26/44	-----	-----	-----	-----	-----	-----	-----	-----	-----	1/15/45	2/5/45	2/1/45
1717-F	Combined Shops	2/18/44	3/29/44	4/3/44	4/17/44	6/2/44	-----	-----	6/1/44	5/28/44	6/19/44	1/7/45	-----	-----	-----	1/11/45	2/5/45	2/1/45
1718-F	First Aid Building	5/6/44	12/20/43	12/21/43	12/23/43	1/5/44	-----	-----	2/1/44	3/8/44	3/18/44	1/13/45	-----	-----	-----	1/12/45	2/6/45	2/1/45
1720-F	Patrol Headquarters	11/14/43	12/28/43	12/31/43	12/29/43	1/6/44	-----	-----	2/1/44	3/8/44	3/18/44	1/10/45	-----	-----	-----	1/21/45	2/5/45	2/1/45
1722-F	Area Shops	12/6/43	3/30/44	4/6/44	5/22/44	6/18/44	-----	-----	2/1/44	3/26/44	3/18/44	1/10/45	-----	-----	-----	1/13/45	2/6/45	2/1/45
1734-F	Gas Cylinder Storage	5/6/43	3/30/44	4/31/44	4/15/44	6/10/44	-----	-----	6/10/44	9/6/44	11/10/44	1/6/45	-----	-----	-----	1/11/45	1/2/45	2/1/45
1801-F	Pipe Supports	1/6/44	5/6/44	1/7/44	-----	-----	-----	-----	6/10/44	12/3/44	-----	-----	-----	-----	-----	1/8/45	2/6/45	2/1/45
1802-F	Steam Lines	1/6/44	-----	-----	-----	-----	-----	-----	9/6/44	1/7/45	-----	-----	-----	-----	-----	1/2/45	1/2/45	2/1/45
1803-F	Air Lines	1/23/44	11/27/44	12/28/44	-----	-----	-----	-----	-----	-----	9/20/44	1/2/45	-----	-----	-----	1/2/45	1/18/45	2/6/45
1806-F	Frocees Lines	9/6/44	12/12/44	12/18/44	-----	-----	-----	-----	12/6/44	12/30/44	12/6/44	1/2/45	-----	-----	-----	1/2/45	1/20/45	2/1/45
1801-F	Outside Meter Lines	1/21/44	1/22/44	1/3/45	1/24/44	1/10/44	-----	-----	12/18/44	12/30/44	12/15/44	1/2/45	-----	-----	-----	1/2/45	1/18/45	2/1/45
1902-F	Fire Lines	1/21/44	1/22/44	1/6/45	1/24/44	1/12/44	-----	-----	4/6/44	7/25/44	-----	-----	-----	-----	-----	12/13/44	1/10/45	2/6/45
1903-F	Sanitary Sewers	5/6/44	4/10/44	1/3/45	-----	-----	-----	-----	4/10/44	7/25/44	-----	-----	-----	-----	-----	12/6/44	1/12/45	2/1/45
1904-F	Process Sewers	3/30/44	4/20/44	1/6/45	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	6/10/44	1/15/45	2/1/45
																5/3/44	1/16/45	2/6/45

\* Denotes Temporary Construction Times Over by Operations for Permanent Use

NOTE: The dates shown on this sheet reflects the time at which the various interim stages of construction were essentially completed. In some cases these dates will vary slightly from the final date carried in the weekly progress report.

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**PROGRESS OF CONSTRUCTION  
BUILDINGS & FACILITIES  
105 AREAS  
PROJECT 9536**

BUILDING NUMBER	NAME	DESIGN RELEASED	EXCAVATION		FOUNDATIONS		STRUCTURAL STEEL		SUPERSTRUCTURE		EQUIPMENT INSTALLATION		TEST RUNS MAJOR EQUIPMENT		START-UP	COMPLETION	DATE ACCEPTED BY	
			STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	DATE	DATE	OPERATION	GOV'T.
	TOTAL 105 AREAS		10/4/43													1/31/45		
301	File Building		(Building portion constructed by 500 Area Division Engineers)													3/2/44	8/17/44	8/17/44
105-1	File Building	10/4/43	10/10/43	-----	10/29/43	3/31/44	1/31/44	7/19/44	1/2/44	7/21/44	2/6/44	8/19/44	7/26/44	8/18/44	8/12/44	8/19/44	9/14/44	9/26/44
105-2	File Building	10/4/43	11/29/43	-----	12/3/43	4/28/44	6/8/44	11/11/44	2/18/44	9/22/44	4/24/44	11/17/44	10/15/44	11/18/44	11/20/44	11/20/44	11/20/44	11/20/44
105-3	File Building	10/4/43	2/17/44	-----	2/16/44	10/20/44	6/26/44	12/16/44	6/27/44	12/22/44	6/25/44	1/26/45	1/1/45	1/26/45	1/31/45	1/31/45	2/5/45	2/5/45

SUBCONTRACTORS - 100 AREAS

<u>RPG</u>	<u>SUBCONTRACTOR</u>	<u>SCOPE OF WORK</u>	<u>100-B</u>	<u>100-D</u>	<u>100-F</u>
241½	Clinton Bridge Co.	Purchase and Steel Erection	*105,108,115 151,181,182 183,184,185 190,1717	*105,108,115,151 181,182,183,184 185,186,189,190 1717	*105,108,115 151,181,182 183,184,185 189,190,1717
307½	Combustion Eng. Co.	Boiler Erection	184	184	184
403	Guy F. Atkinson Co.	Railroad Construction	Area	Area	Area
407	Myers Bros. & N. M. Ball Sons	Road Construction	Area	Area	Area
407	Myers Bros. & N. M. Ball Sons	Excavation	105,107,151 182,183,184 190, 1601 1603, 1901 1904	107,151,182,183	151
408	Newberry, Chandler & Lord	Electrical Work	Area	Area	Area
410	Hanford Concrete Co.	Concrete	Area	Area	Area
411	Hankes, James, Zahniser & Warren	Pipe Work	Area	Area	Area
565½	W. E. Caldwell Co.	Elevated Wool Tanks	1901	1901	1901
566½	Rust Engineering Co.	Concrete Stacks	184	184	184

RPG	SUBCONTRACTOR	SCOPE OF WORK	SUBCONTRACTORS - 100 AREAS - Cont.		
			100-E	100-D	100-F
567½	W. E. Caldwell Co.	Elevated Wood Tanks	1902	1902	1902
537½	Chicago Bridge & Iron Co.	Elevated Steel Tanks	187	187	187
559½	Link Belt Co.	Coal Handling Equipment	184	184	184
808½	Philadelphia Iron Works	Boiler Breachings	184	184	184
823½	Chicago Bridge & Iron Co.	Storage Tanks	190	190	190
1170½	Connery Construction Co.	Air Ducts	184	184	184
1246½	Haughton Elevator Co.	Electric Elevators	105	105	105
1475½	Asbestos Supply Co.	Insulation	Area	Area	Area
1588½	National Junite Construction Co.	Concrete Storage Tanks	--	184	--
1862½	Alphons Custodis Co.	Stacks	116	116	116
4321	Curtis Gravel Co.	Sand	Area	Area	Area
4326	American Pipe and Construction Co.	Concrete Piping	1901,1904	1901,1904	1901,1904
4332	William Vail Co.	Roofing	105,106,107 151,181,182 183,184,185 190,1700	105,106,107,151 181,182,183,184 185,189,190,1700 Bldgs.*	105,106,107,151 181,182,183,184 185,189,190,1700 Bldgs.*
* (1700 Bldgs. Groups -- all administrative and service buildings in each area known as 1700 group.)					

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SUBCONTRACTORS - 100 AREAS - Cont.

<u>RPC</u>	<u>SUBCONTRACTOR</u>	<u>SCOPE OF WORK</u>	<u>100-B</u>	<u>100-D</u>	<u>100-F</u>
4334	Guerin Bros.	Excavation	--	105,115,181,184 185,186,189,190 1601,1603,1901 1904	105,107,115,181 182,183,184,185 189,190,1601, 1603,1901,1904
4335	National Gunite Co.	Gunite Work	107,182,183	107,182,183,186	107,182,183
4336	G. R. Jesson & J. C. Wright Co.	Concrete Block & Cement Brick	Area	Area	Area
4337	Guy F. Atkinson Co.	Channel Excavation	--	181,1904	--
4339	Guy F. Atkinson Co.	Railroad Construction	Area	Area	Area
4341	Ball and Simpson	Aggregate Hauling	Area	Area	Area
4354	H.R.Parsons Tile Co.	Flooring	184,1719	184,1719	184,1719
29,312	Fryer-Knowles	Hot Mastic Flooring	105,184	105,184	105,184
29,328	U. S. Rubber Co.	Rubber Lining	Misc.	190-Misc.	Misc.

\* Steel for 151, 181, 182 and 1717 Buildings erected by du Pont

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MATERIALS USED IN PILE

The following is a tabulation of the larger quantities of materials used in the Pile.

<u>Item</u>	<u>Quantity</u>
Masonite, 1/8" thick	2,500,000 sq. ft.
Steel Plate	4,415 tons
Cast-iron	1,093 tons
Graphite	2,200 tons
Copper Tubing	221,000 ft.
Saran Tubing	176,700 ft.
Aluminum Tubing	86,000 ft.

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## 200 AREA

Process Buildings

<u>Building Number</u>	<u>200-E</u>	<u>200-W</u>	<u>200-N</u>	<u>Building Name</u>
211	1	2	0	Tank Farm
212	0	0	3	Lag Storage Building
213	0	0	2	Magazine Storage Building
214	1	0	0	Process Waste Disposal Trench
221	1	2	0	Cell Building
222	1	2	0	Sample Preparation Lab.
224	1	2	0	Bulk Reduction Building
231	0	1	0	Concentration Building
241	2	2	0	Process Waste Disposal System
271	1	2	0	Chemical Preparation & Service Building
291	1	2	0	Exhauster Building & Stack
292	1	2	0	Exhaust Gas Lab.
	—	—	—	
	10	17	5	

Power, Water Treatment & Storage Buildings

282	1	1	0	Reservoir & Pump House Building
283	1	1	0	Filter Plant Building
284	1	1	0	Power House
288	1	1	0	Ash Disposal Pit
	—	—	—	
	4	4	0	

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2500 - Outside Electrical Facilities

<u>Building Number</u>	<u>200-E</u>	<u>200-W</u>	<u>200-N</u>	<u>Building Name</u>
251	-	-	1	Primary Substation (230 KV/13.8 KV)
252	1	1	1	Secondary Substation (13.8 KV/2300 V)
253	13	21	4	Distribution Substation (2300 V/440-220-110 V)
2501	x	x	x	Fence & Road Lighting
2503	x	x	x	Outside Transmission Lines (including poles and hardware)
2505	x	x	-	Fire Alarm System
2506	x	x	x	Telephones & Telephone Cable

2600 - General Facilities

2601	x	x	x	Standard Gauge Railroad Track
2603	x	x	x	Roads and Walks
2605	x(18)	x(16)	x(3)	Fences (including Guard Towers)
2607	4	7	3	Septic Tanks
2612	x	x	x	Open Drainage Ditches
2613	x	x	-	Permanent Parking Lot
2614	4	6	1	General Monitoring Stations
2621	3	3	-	Emergency Generator Shelters

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2700 - Service Buildings

<u>Building Number</u>	<u>200-E</u>	<u>200-W</u>	<u>200-E</u>	<u>Building Name</u>
272	1	1	-	Area Shop
273	1	-	-	Heat Treating Furnace
274	1	1	-	Machinery Storehouse
275	1	1	-	Chemical Storehouse
2701	1	1	-	Gate House
2701-A	1	3	-	Gate House
2704	1	1	-	Supervisors' Office Bldg.
2707	1	1	-	Change House (Service Area)
2707-A	1	1	-	Change House (Power Area)
2709	1	1	-	Fire Headquarters
2713	1	1	-	Storeroom
2713-A	1	1	-	Essential Material Storehouse
2713-B	1	1	-	Miscellaneous Storehouse
2715	1	1	-	Oil & Paint Storage Building
2716	1	1	-	Automotive Repair Garage
2719	1	1	-	First Aid Building
2720	1	1	-	Patrol Headquarters
2722	1	1	-	Area Shop
2725	-	1	-	Laundry
2729	-	1	-	Extra Machinery Storehouse
2730	-	1	-	Slab Yard
2731	-	1	-	Burning Pit
2734	1	1	-	Gas Cylinder Storage
2743	-	-	4	Gate House & Guard Tower Bldg.

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2800 - Outside Overhead Pipe Lines

<u>Building Number</u>	<u>200-E</u>	<u>200-W</u>	<u>200-N</u>	<u>Building Name</u>
2801	x	x	-	Pipe Supports
2802	x	x	-	Steam Lines
2803	x	x	-	Air Lines
2805	x	x	-	Process Lines

2900 - Outside Underground Lines

2901	x	x	x	Water Lines (including Elevated Storage Tanks)
2902	x	x	-	Fire Lines (including Elevated Storage Tanks)
2903	x	x	x	Sanitary Sewer Lines
2904	x	x	x	Process Sewer Lines
2905	-	-	x(2)	Wells & Pumps

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**PROGRESS OF CONSTRUCTION  
BUILDINGS & FACILITIES  
200-E AREA  
PROJECT 9536**

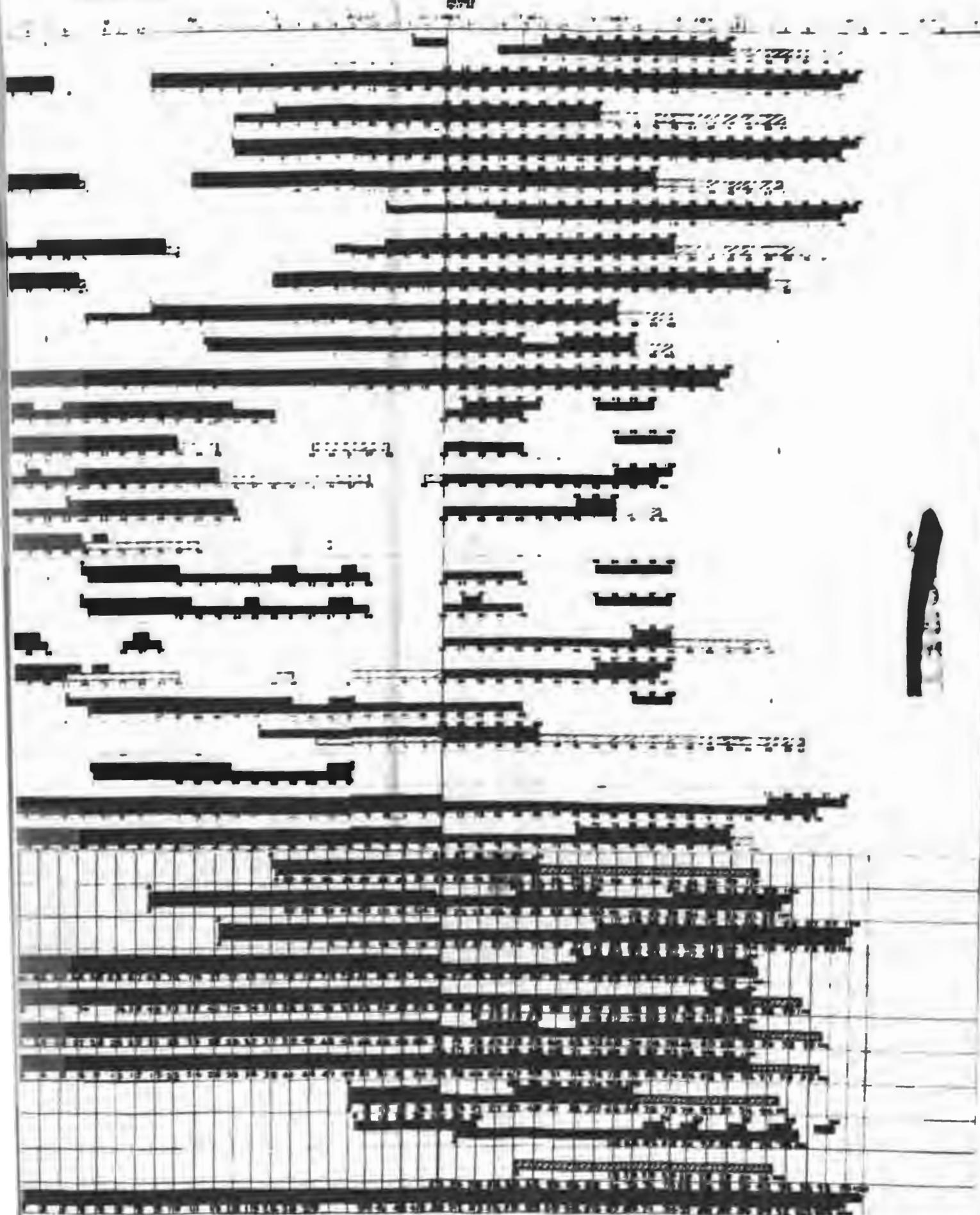
BUILDING NUMBER	NAME	DESIGN RELEASED	EXCAVATION		FOUNDATIONS		STRUCTURAL STEEL		SUPERSTRUCTURE		EQUIPMENT INSTALLATION		TEST RUNS MAJOR EQUIPMENT		START-UP DATE	COMPLETION DATE	DATE ACCEPTED BY	
			STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE			OPERATION	GOV'T.
211-E	Tank Farm Waste Disposal Trench	9-2-43 1-16-45	10-6-44 2-1-45	10-16-44 2-6-45	10-11-44	12-30-44	----	----	----	----	10-20-44	2-7-45	----	----	----	8-10-45	2-13-45	2-13-45
216-E	Process Sensors	----	----	----	----	----	----	----	----	----	----	----	----	----	----	2-10-45	2-6-45	2-2-45
221-E	Cell Building	7-12-43	8-2-43	8-19-43	4-17-44	5-23-44	----	----	6-18-43	12-24-44	8-1-44	2-7-45	----	----	----	2-10-45	2-13-45	2-13-45
222-E	Sample Preparation Laboratory	7-22-43	7-1-44	7-14-44	7-14-44	8-25-44	----	----	7-23-44	1-7-45	8-11-44	1-14-45	----	----	----	1-20-45	2-13-45	2-13-45
224-E	Bulk Reduction building	1-3-44	7-1-44	7-21-44	7-23-44	8-11-44	----	----	8-8-44	1-7-45	8-21-44	2-10-45	----	----	----	2-10-45	2-13-45	2-13-45
241-E	Process Waste Disposal System	10-22-43	11-24-43	12-13-43	2-15-44	12-10-44	----	----	----	----	8-27-44	1-14-45	----	----	----	1-19-45	2-13-45	2-13-45
241-C	Process Waste Disposal System	10-22-43	12-18-43	12-30-43	2-20-44	1-15-45	----	----	----	7-9-44	1-26-45	----	----	----	1-24-45	2-13-45	2-13-45	
262-E	Secondary Sub-Station	1-19-44	8-1-44	----	----	----	----	----	----	----	----	----	----	----	----	1-26-45	2-16-45	2-12-45
273-E	Distribution Sub-Stations	12-12-43	10-23-43	----	----	----	----	----	----	----	----	----	----	----	----	8-31-44	1-26-45	2-12-45
271-E	Chemical Preparation & Service Bldg.	8-26-43	9-5-44	10-12-44	10-13-44	11-17-44	----	----	11-1-44	1-26-45	10-27-44	2-10-45	----	----	8-31-44	1-10-45	2-13-45	2-13-45
272-E	Area Shop	7-20-43	11-16-43	12-17-43	12-18-43	1-14-44	1-29-44	2-23-44	1-24-44	5-8-44	3-1-44	2-10-45	----	----	5-3-44	8-31-44	2-20-45	2-17-45
273-E	Heat Treating Furnace	8-28-43	9-16-43	11-26-43	10-17-43	12-17-43	11-15-43	1-25-44	11-15-43	3-17-43	10-25-43	5-21-44	1-29-44	2-4-44	5-3-44	8-31-44	2-20-45	2-17-45
274-E	Machinery Store House	6-10-43	12-29-43	1-7-44	1-5-44	1-14-44	----	----	3-13-44	4-14-44	----	----	----	----	----	4-14-44	2-9-45	2-7-45
275-E	Chemical Store House	6-10-43	12-28-43	1-18-44	1-12-44	1-23-44	----	----	3-13-44	4-14-44	----	----	----	----	----	4-14-44	2-9-45	2-7-45
282-E	Reservoir & Pump House	1-6-44	2-29-44	5-28-44	7-3-44	9-10-44	9-14-44	9-15-44	7-23-44	12-1-44	8-20-44	12-7-44	----	----	11-16-44	12-9-44	12-20-44	12-20-44
283-E	Filter Plant	9-1-43	6-23-44	7-23-44	7-26-44	3-15-44	9-18-44	9-28-44	7-28-44	12-1-44	8-20-44	12-7-44	----	----	11-13-44	12-0-44	12-20-44	12-20-44
284-E	Power House	8-17-43	12-25-43	3-21-44	3-15-44	5-26-44	4-26-44	7-4-44	4-28-44	12-15-44	7-21-44	12-27-44	6-13-44	7-1-44	11-4-44	12-29-44	1-20-45	1-25-45
286-E	Ash Disposal Basin	10-6-43	2-28-44	3-17-44	----	----	----	----	----	----	----	----	----	----	11-4-44	11-22-44	1-24-45	1-25-45
291-E	Exhaust Gas Building & Stack	7-12-43	8-20-43	10-15-44	8-24-43	11-4-44	----	----	8-18-44	12-9-44	2-27-44	12-30-44	----	----	----	3-10-45	2-9-45	2-7-45
292-E	Exhaust Gas Laboratory	6-27-44	6-14-44	8-10-44	8-18-44	8-18-44	----	----	8-20-44	11-17-44	10-1-44	1-18-44	----	----	1-19-45	2-3-45	2-7-45	
2801-E	Fences & Road Lighting	12-12-43	10-1-44	----	----	----	----	----	----	----	----	----	----	----	11-15-44	8-10-45	2-16-45	2-12-45
2803-E	Electric Lines	10-12-43	10-15-43	----	----	----	----	----	----	----	----	----	----	8-31-44	2-10-45	2-16-45	2-12-45	
2806-E	Fire Alarm System	12-15-43	1-15-44	----	----	----	----	----	----	----	----	----	----	----	4-2-45	2-36-45	2-12-45	
2806-E	Telephone Cable & Inst.	12-7-43	----	----	----	----	----	----	----	----	----	----	----	----	3-27-44	2-10-45	----	----
2801-E	Stand. Gauge R.R. Tracks	7-5-43	----	----	----	----	----	----	----	----	----	----	----	----	2-10-45	2-11-45	2-13-45	
2001-E	Roads & Walks	7-6-43	----	----	----	----	----	----	----	----	----	----	----	----	2-2-45	2-36-45	2-12-45	
1615-E	Fences (incl. Guard Towers)	10-12-43	1-1-44	----	----	----	----	----	----	----	----	----	----	----	2-10-45	2-9-45	2-10-45	
2606	Settling basin	1-24-44	3-6-44	----	----	----	----	----	----	----	----	----	----	----	2-2-45	2-9-45	2-8-45	
2617-E	Septic Tanks	1-24-44	2-13-44	----	----	----	----	----	----	----	----	----	----	4-18-44	2-5-45	2-2-45		
2611-E	Open Drainage Ditches	1-28-44	8-29-44	----	----	----	----	----	----	----	----	----	----	1-8-45	2-3-45	2-2-45		
2612-E	Permanent Parking Lot	1-14-44	1-10-45	----	----	----	----	----	----	----	----	----	----	1-8-45	2-6-45	2-2-45		
2614-E	General Monitoring Station	2-12-44	7-17-44	----	----	----	----	----	----	----	----	----	----	----	2-17-45	2-9-45	2-7-45	
2621-E	Emergency Gas Generator Shelters	5-22-44	----	----	----	----	----	----	----	----	----	----	----	1-8-45	1-24-45	1-26-45		
2701-E	Gate House & Clock Alley	8-27-43	4-10-44	4-16-44	4-17-44	5-5-44	5-1-44	5-7-44	5-25-44	10-15-44	----	----	----	9-1-44	2-13-45	2-13-45		

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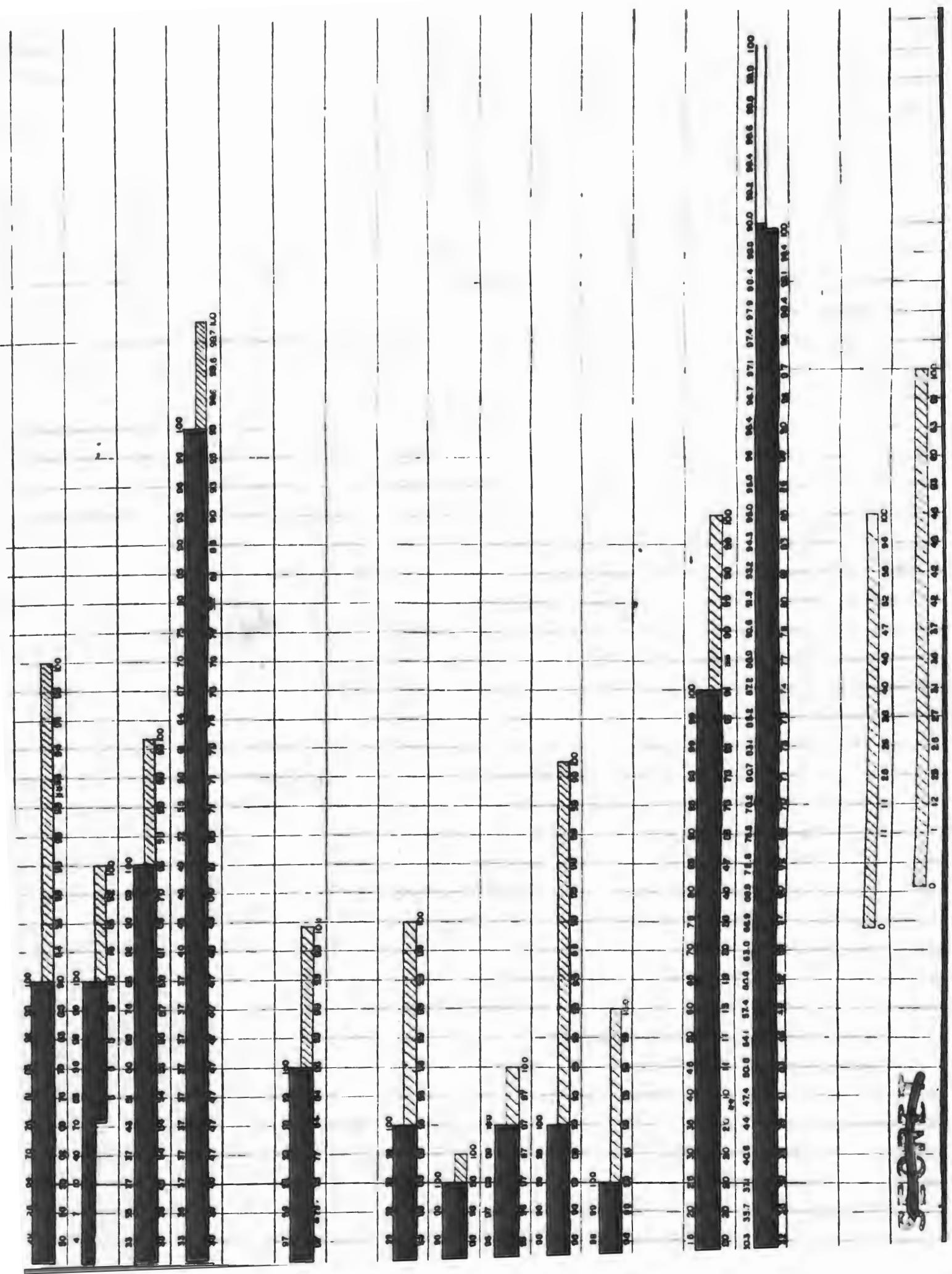
**PROGRESS OF CONSTRUCTION  
BUILDINGS & FACILITIES  
200-E AREA  
PROJECT 9536**

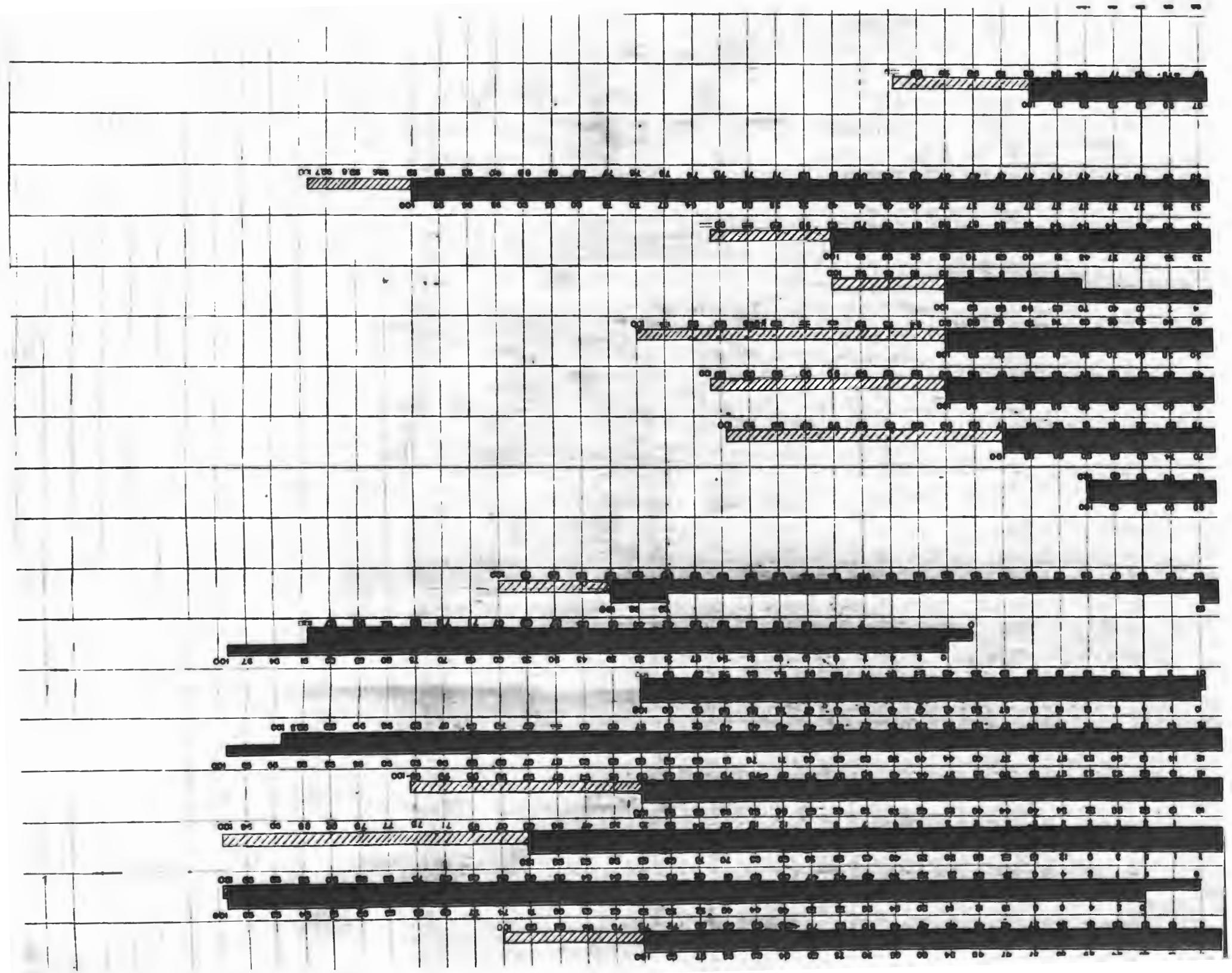
BUILDING NUMBER	NAME	DESIGN RELEASED	PROJECT 9536														
			EXCAVATION		FOUNDATIONS		STRUCTURAL STEEL		SUPERSTRUCTURE		EQUIPMENT INSTALLATION		TEST RUNS MAJOR EQUIPMENT		START-UP DATE	COMPLETION DATE	DATE ACCEPTED BY
			STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE			
2704-E	Supervisor's Office Building	6-16-43	12-10-43	12-16-43	12-18-43	1-14-44	---	---	1-11-44	9-1-44	5-5-44	8-28-44	---	---	10-16-44	12-6-44	12-6-44
2707-E	Change House	6-30-43	3-17-44	4-7-44	3-23-44	4-26-44	---	---	5-3-44	7-27-44	7-14-44	9-29-44	---	---	12-6-44	12-6-44	12-6-44
2707-EE	Change House (Power Area)	12-16-43	4-10-44	4-14-44	4-16-44	4-25-44	---	---	4-20-44	12-3-44	7-14-44	11-17-44	---	---	12-6-44	12-6-44	12-6-44
2709-E	Fire Headquarters	1-21-44	4-1-44	4-7-44	4-5-44	4-27-44	---	---	4-18-44	8-0-44	7-8-44	7-29-44	---	---	7-31-44	12-23-44	12-13-44
2713-E	Storage Room	6-21-43	4-5-44	4-12-44	4-14-44	4-21-44	---	---	6-11-44	8-23-44	---	---	---	---	10-18-44	12-6-44	13-18-44
2713-EE	Essential Material Storage Room	6-15-43	11-20-43	---	---	---	---	---	---	---	---	---	---	---	8-3-44	2-9-45	2-7-45
2716-E	Oil & Paint Storage Building	7-28-43	6-8-44	6-1-44	6-2-44	6-9-44	---	---	6-9-44	9-1-44	---	---	---	---	10-16-44	12-6-44	12-6-44
2716-EE	Automotive Repair Garage	---	12-22-43	---	---	---	---	---	---	---	---	---	---	---	10-16-44	12-6-44	12-6-44
2719-E	First Aid Building	7-30-43	12-10-43	12-16-43	12-20-43	1-14-44	---	---	---	---	---	---	---	---	8-27-44	2-8-45	2-7-45
2720-E	Patrol Headquarters	7-8-43	4-1-44	4-7-44	4-6-44	4-28-44	---	---	1-9-44	3-17-44	4-10-44	11-17-44	---	---	1-15-44	2-8-44	2-8-44
2722-E	Paint & Rigging Shop	6-30-43	5-8-44	5-27-44	5-28-44	6-3-44	---	---	4-12-44	8-12-44	8-1-44	12-3-44	---	---	12-6-44	12-8-44	12-8-44
2724-E	Cylinder Storage Building	6-12-43	5-10-44	5-27-44	5-28-44	6-3-44	---	---	6-7-44	8-2-44	---	---	---	---	10-16-44	12-6-44	12-6-44
2701-E	Pipe Supports	2-15-44	6-2-44	---	---	---	---	---	6-7-44	8-7-44	---	---	---	---	8-9-44	12-6-44	12-6-44
2702-E	Steam Lines	2-15-44	6-26-44	---	---	---	---	---	---	---	---	---	---	---	1-17-44	2-8-44	2-2-44
2703-E	Air Lines	2-15-44	9-25-44	---	---	---	---	---	---	---	---	---	---	---	2-10-44	2-18-44	2-18-44
2705-E	Process Lines	3-17-44	10-15-44	---	---	---	---	---	---	---	---	---	---	---	8-10-44	2-6-44	2-2-44
2701-EE	Motor Lines & Elev. Tanks	9-20-43	12-27-43	---	---	---	---	---	---	---	---	---	---	---	1-15-44	2-13-44	2-13-44
2702-EE	Fire Lines & Elev. Tanks	9-22-43	1-51-44	---	---	---	---	---	---	---	---	---	---	---	1-6-44	2-6-44	2-2-44
2703-EE	Sanitary Sewers	1-26-44	2-8-44	---	---	---	---	---	---	---	---	---	---	---	1-8-44	2-13-44	2-11-44
2704-EE	Process Sewers	1-26-44	3-6-44	---	---	---	---	---	---	---	---	---	---	---	1-31-44	2-6-44	2-2-44
2718-EE	Pipe Warehouse	---	---	---	---	---	---	---	---	---	---	---	---	---	1-51-44	2-6-44	2-2-44
* To C. I.M. building transferred to Operations and assigned permanent building numbers.																	
** Excavation started on Preliminary Drawings.																	

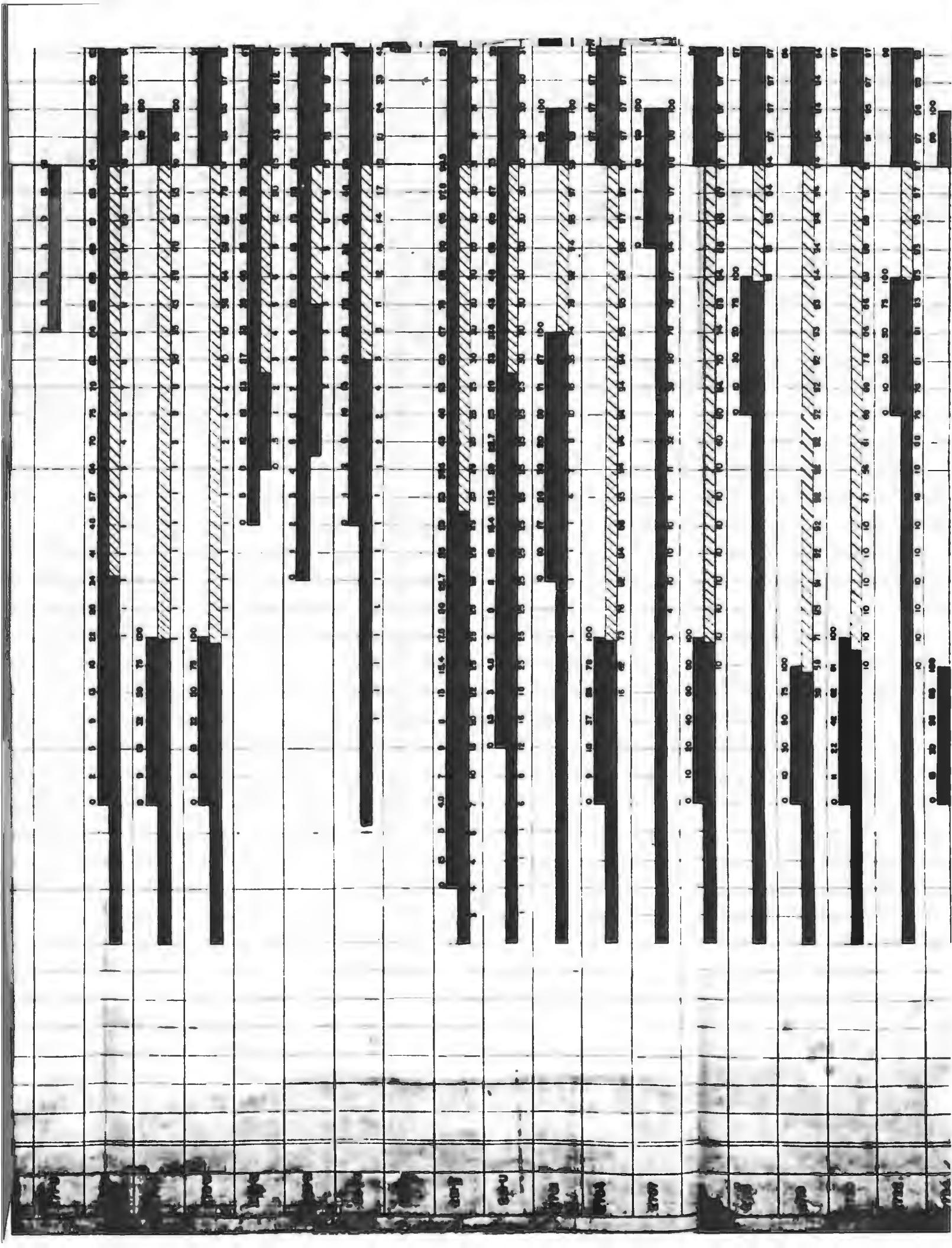
HANFORD ENGINEER WORKS  
INSTRUCTION PROGRAM  
AMFA ESTIMATE AND ACTUAL PERSONNEL COMPLETE  
200-E AREA



SHEET 2 OF 5 SHEETS







**LEGEND**

PERCENTAGE FIGURE INDICATE ESTIMATED  
CONSTRUCTION SCHEDULE.

PERCENTAGE FIGURE INDICATE ACTUAL  
CONSTRUCTION SCHEDULE.

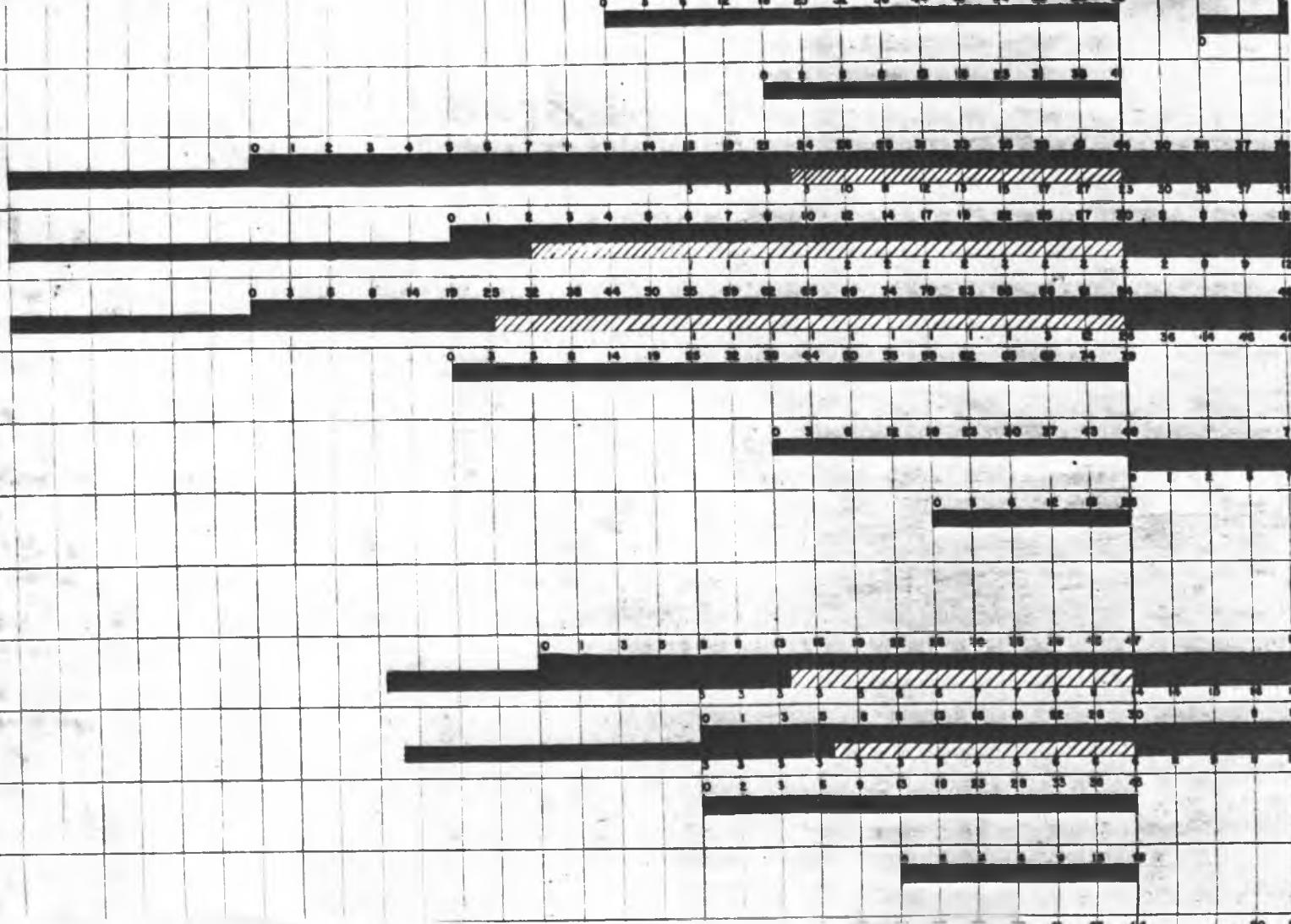
NUMBER OF WEEKS ACTUAL PROGRESS  
OVER SCHEDULED PROGRESS.

BUILDING AND CONSTRUCTION PROGRESS

ORIGINAL

REVISED AS OF 3-12-4

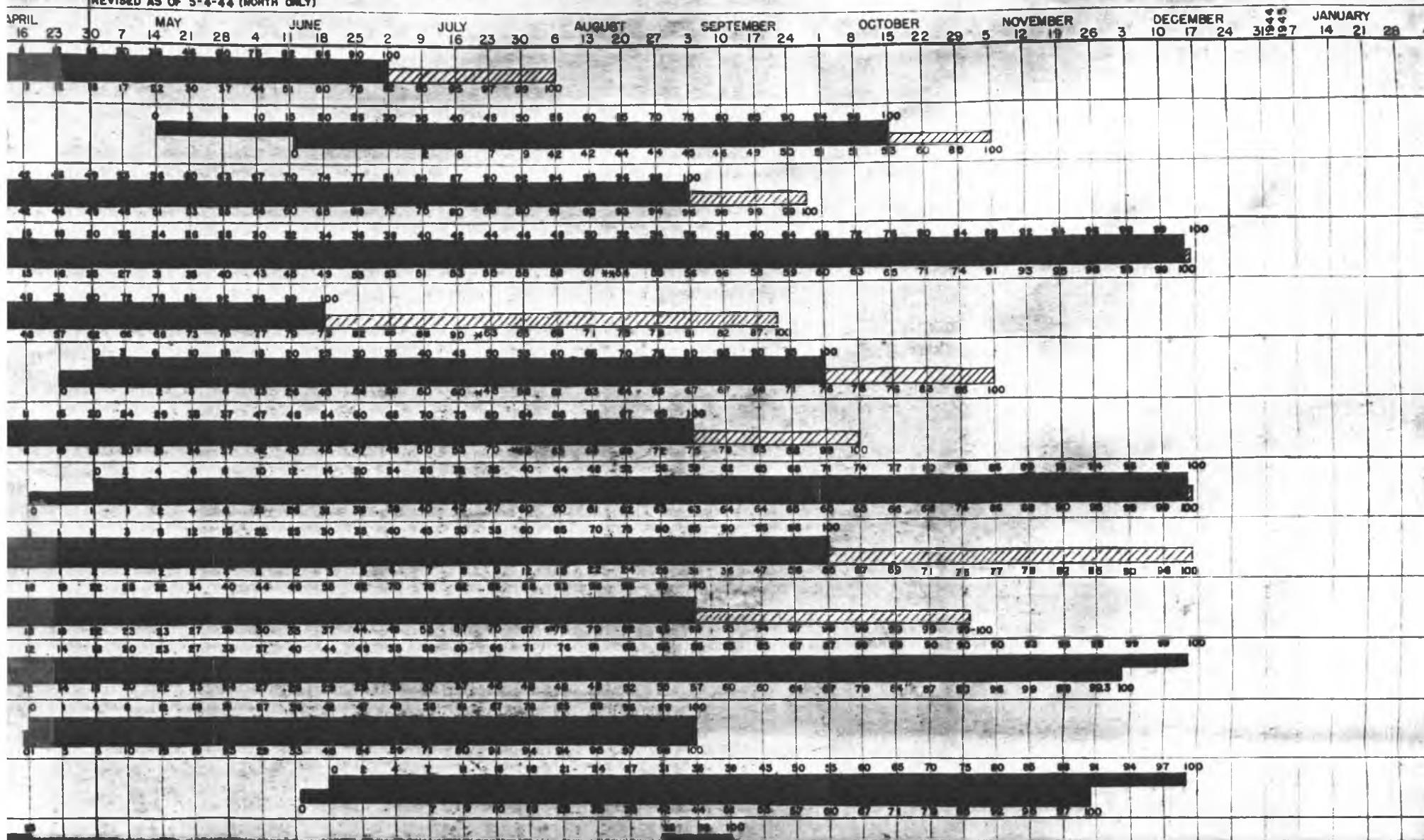
JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	21	JANUARY	FEBRUARY	MARCH
10 25	8 15 22 29 5 12 19 26 3	10 17 24 31 7 14 21 28 5	12 19 26 22 9 16 23 30 6	13 20 27 5 12 19 26 2 9					



RE-ESTIMATED AND ACTUAL PERCENT COMPLETE  
TION 200-W

**SECRET**

REVISED AS OF 5-6-44 (NORTH ONLY)



**SECRET**  
**PROGRESS OF CONSTRUCTION**  
**BUILDINGS & FACILITIES**  
**200-W AREA**  
**PROJECT 9536**

BUILDING NUMBER	NAME	DESIGN RELEASED	EXCAVATION		FOUNDATIONS		STRUCTURAL STEEL		SUPERSTRUCTURE		EQUIPMENT INSTALLATION		TEST RUNS MAJOR EQUIPMENT		START-UP DATE	COMPLETION DATE	DATE ACCEPTED BY			
			STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE			OPERATION	GOVT.		
211-2	TANK FARM	9-2-44	5-27-44	6-9-44	5-25-44	7-21-44	—	—	5-7-44	7-29-44	4-21-44	7-29-44	8-1-44	12-8-44	8-8-44	8-8-44	8-8-44	8-8-44		
211-3	SHED FARM	9-2-44	9-10-44	6-23-44	6-23-44	6-4-44	—	—	7-17-44	11-8-44	2-4-44	11-8-44	—	—	11-8-44	12-20-44	12-15-44	12-15-44		
221-7	CELL BUILDING	7-18-44	**6-23-44	7-17-44	12-30-44	1-23-44	—	—	1-17-44	9-8-44	4-22-44	9-15-44	—	—	9-8-44	9-27-44	10-15-44	10-15-44		
222-3	CELL BUILDINGS	7-18-44	**7-8-44	8-1-44	1-11-44	8-20-44	—	—	8-21-44	11-3-44	6-12-44	12-1-44	—	—	12-8-44	12-14-44	12-20-44	12-20-44		
222-4	SAMPLE PREPARATION LABORATORY	9-23-44	8-23-44	2-8-44	8-1-44	8-1-44	—	—	8-28-44	9-22-44	4-18-44	9-22-44	—	—	12-8-44	12-14-44	12-20-44	12-20-44		
222-5	SAMPLE PREPARATION LABORATORY	9-23-44	4-24-44	4-20-44	4-20-44	10-6-44	—	—	8-23-44	11-3-44	7-17-44	11-3-44	—	—	—	8-23-44	10-15-44	10-9-44		
224-7	WATER REDUCTION BUILDING	1-8-44	2-21-44	2-23-44	3-7-44	7-21-44	—	—	2-14-44	9-23-44	6-22-44	10-9-44	—	—	—	12-8-44	11-15-44	11-15-44		
224-8	WATER REDUCTION BUILDING	1-8-44	6-17-44	6-23-44	6-30-44	8-11-44	—	—	8-23-44	8-11-44	7-30-44	12-1-44	—	—	12-8-44	12-18-44	12-18-44	12-18-44		
231-N	CONCENTRATION BUILDING	9-25-44	**6-8-44	6-24-44	6-19-44	7-21-44	—	—	7-20-44	12-8-44	9-23-44	12-1-44	—	—	12-18-44	12-20-44	12-20-44	12-20-44		
241-7	PROCESS WASTE DISPOSAL SYSTEM	10-22-44	11-6-44	12-1-44	12-7-44	7-28-44	—	—	—	—	8-6-44	9-23-44	—	—	1-14-45	12-18-44	12-20-44	12-20-44		
241-8	PROCESS WASTE DISPOSAL SYSTEM	10-22-44	11-19-44	1-8-44	12-22-44	10-28-44	—	—	—	—	8-15-44	11-10-44	—	—	12-8-44	10-8-44	10-8-44	10-8-44		
252-N	SECONDARY SUB-STATION	1-18-44	2-1-44	2-9-44	2-20-44	4-30-44	—	—	2-13-44	8-18-44	4-28-44	6-18-44	—	—	12-1-44	12-20-44	12-20-44	12-20-44		
253-N	DISTRIBUTION SUB-STATION	11-20-44	2-1-44	—	—	—	—	—	—	—	—	—	—	—	8-27-44	10-15-44	12-20-44	12-20-44		
271-7	CHEMICAL PREPARATION & SERVICE BL.	9-25-44	4-1-44	4-8-44	4-10-44	8-31-44	—	—	4-28-44	8-11-44	8-10-44	9-1-44	—	—	9-24-44	12-9-44	12-20-44	12-20-44		
271-8	CHEMICAL PREPARATION & SERVICE BL.	9-25-44	8-12-44	8-18-44	8-28-44	10-6-44	—	—	—	—	—	—	—	—	12-6-44	9-2-44	10-15-44	10-8-44		
272-N	AREA SHOP	7-20-44	8-2-44	12-15-44	12-14-44	8-12-44	2-10-44	2-2-44	2-3-44	4-10-44	1-21-44	8-23-44	—	—	12-2-44	12-20-44	12-15-44	12-15-44		
274-N	MACHINERY STORE HOUSE	9-25-44	8-24-44	12-22-44	12-20-44	8-23-44	—	—	8-12-44	—	—	—	—	—	8-25-44	10-7-44	11-8-44	—		
282-N	RESERVOIR & PUMP HOUSE	3-6-44	12-26-44	1-20-44	1-28-44	4-9-44	—	—	—	—	—	—	—	—	6-13-44	6-1-44	6-1-44	6-1-44		
284-N	FILTER PLANT	9-1-44	12-20-44	1-21-44	1-28-44	4-22-44	—	—	—	—	7-28-44	2-27-44	6-18-44	7-10-44	7-11-44	7-10-44	8-12-44	10-11-44	10-11-44	
286-N	PUMPER HOUSE	9-27-44	12-15-44	10-14-44	8-12-44	2-17-44	2-23-44	2-18-44	7-14-44	8-8-44	8-1-44	6-25-44	7-25-44	8-18-44	9-18-44	9-18-44	9-18-44	9-18-44		
288-N	AIR DISPATCH BLDG.	10-6-44	8-15-44	—	—	—	—	—	—	—	—	—	—	—	7-25-44	8-2-44	12-7-44	12-7-44		
291-T	EXHAUST GAS BLDG. & STACK	7-12-44	8-26-44	8-15-44	8-18-44	7-14-44	—	—	—	—	4-11-44	8-10-44	8-28-44	8-12-44	—	—	12-6-44	8-18-44	10-15-44	
291-U	EXHAUST GAS BLDG. & STACK	7-12-44	8-28-44	7-21-44	8-7-44	10-6-44	—	—	—	—	6-25-44	10-6-44	9-25-44	10-87-44	—	—	11-24-44	12-30-44	12-15-44	10-8-44
292-T	EXHAUST GAS LABORATORY	9-27-44	7-1-44	7-3-44	7-6-44	7-21-44	—	—	—	—	7-27-44	9-15-44	8-12-44	9-29-44	—	—	12-6-44	10-1-44	9-20-44	9-20-44
292-U	EXHAUST GAS LABORATORY	9-27-44	7-10-44	7-13-44	7-15-44	8-12-44	—	—	—	—	7-30-44	11-3-44	8-28-44	11-10-44	—	—	—	—	—	—
2901-N	FENCE & ROAD LIGHTING	11-28-44	**9-28-44	—	—	—	—	—	—	—	—	—	—	—	—	11-18-44	12-30-44	12-13-44	—	
2903-N	ELECTRIC LINES	11-28-44	**9-1-44	—	—	—	—	—	—	—	—	—	—	—	—	10-18-44	12-28-44	12-14-44	—	
2905-N	FIRE ALARM SYSTEM	12-18-44	1-15-44	—	—	—	—	—	—	—	—	—	—	—	—	10-20-44	12-26-44	12-14-44	—	
2906-N	TELEPHONE CABLE & LINE	12-1-44	12-5-44	—	—	—	—	—	—	—	—	—	—	—	—	12-2-44	12-25-44	12-14-44	—	
2901-H	STANDARD GAUGE R.R. TRACKS	7-6-44	7-20-44	—	—	—	—	—	—	—	—	—	—	—	—	12-22-44	12-9-44	—	—	
2903-Z	ROADS & RAMPS	7-6-44	7-20-44	—	—	—	—	—	—	—	—	—	—	—	—	9-18-44	12-8-44	12-11-44	12-6-44	
2905-N	FENCES (INCL. GUARD TOWERS)	10-12-44	12-6-44	—	—	—	—	—	—	—	—	—	—	—	—	—	12-8-44	12-20-44	12-18-44	
2907-N	SEPTIC TANKS	1-6-44	2-14-44	—	—	—	—	—	—	—	—	—	—	—	—	—	12-1-44	10-15-44	10-16-44	
2912-N	OPEN DRAINAGE DITCHES	1-14-44	6-15-44	—	—	—	—	—	—	—	—	—	—	—	—	9-15-44	12-20-44	12-18-44	—	
2913-N	PERMANENT PARKING LOT	7-6-44	9-5-44	—	—	—	—	—	—	—	—	—	—	—	—	11-29-44	12-20-44	12-20-44	—	
2914-N	GENERAL MONITORING STATION	8-12-44	12-6-44	—	—	—	—	—	—	—	—	—	—	—	—	12-18-44	12-20-44	12-20-44	—	

**SECRET**

**SECRET**

**PROGRESS OF CONSTRUCTION  
BUILDINGS & FACILITIES  
200-W AREA  
PROJECT 9536**

BUILDING NUMBER	NAME	DESIGN RELEASED	EXCAVATION		FOUNDATIONS		STRUCTURAL STEEL		SUPERSTRUCTURE		EQUIPMENT INSTALLATION		TEST RUNS MAJOR EQUIPMENT		START-UP DATE	COMPLETION DATE	DATE ACCEPTED BY		
			STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE			OPERATION	GOVT.	
2701-W	EMERGENCY GAS GENERATOR BUILDING	8-22-44	8-6-44	—	—	—	—	—	—	—	—	—	—	—	—	9-1-44	10-5-44	10-7-44	
2701-W	GATE HOUSE & CLOCK ALLEY	7-27-44	8-27-44	12-12-44	12-19-44	1-8-44	—	—	1-6-44	8-4-44	2-18-44	8-28-44	—	—	—	—	7-8-44	10-11-44	
2701-W	GATE HOUSE & CLOCK ALLEY	6-23-44	7-1-44	—	—	—	—	—	—	—	—	—	—	—	—	12-9-44	12-20-44	12-16-44	
2702-W	SUPERVISOR'S OFFICE BUILDING	8-18-44	8-21-44	9-19-44	10-8-44	11-28-44	—	—	10-6-44	2-27-44	2-28-44	2-28-44	—	—	—	—	3-28-44	10-13-44	10-16-44
2702-W	CHARGE HOUSE	6-30-44	8-20-44	10-6-44	10-6-44	11-28-44	—	—	10-6-44	2-20-44	2-28-44	2-28-44	—	—	—	—	7-14-44	8-8-44	8-20-44
2707-W	CHARGE HOUSE (POWER AREA)	12-16-44	2-1-44	8-2-44	2-8-44	2-12-44	8-27-44	—	—	2-28-44	8-12-44	2-28-44	2-28-44	—	—	—	7-28-44	8-21-44	8-19-44
2708-W	FIRE HEADQUARTERS	1-21-44	2-3-44	2-12-44	2-12-44	8-28-44	—	—	2-28-44	8-12-44	4-28-44	7-21-44	—	—	—	—	7-10-44	8-28-44	8-31-44
2712-W	STOREHOUSE	8-21-44	8-26-44	10-10-44	10-11-44	8-2-44	—	—	11-6-44	8-12-44	8-7-44	8-20-44	—	—	—	—	11-24-44	12-20-44	12-18-44
2712-W	ESSENTIAL MATERIAL STOREHOUSE	8-18-44	7-1-44	—	—	—	—	—	—	—	—	—	—	—	—	8-1-44	12-20-44	12-18-44	
2713-W	MISCELLANEOUS STOREHOUSES	—	8-18-44	—	—	—	—	—	—	—	—	—	—	—	—	—	5-2-44	7-1-44	8-20-44
2714-W	OIL & PAINT STORAGE BLDG.	7-23-44	8-26-44	10-5-44	10-4-44	12-19-44	—	—	11-6-44	2-19-44	2-27-44	8-12-44	—	—	—	—	12-20-44	12-20-44	12-18-44
2715-W	AUTOMOTIVE REPAIR GARAGE	—	7-1-44	—	—	—	—	—	—	—	—	—	—	—	—	—	12-20-44	12-20-44	12-18-44
2716-W	FIRST AID BUILDING	7-30-44	8-26-44	8-20-44	8-20-44	8-19-44	—	—	10-6-44	2-27-44	1-25-44	8-20-44	—	—	—	6-1-44	12-20-44	12-18-44	
2716-W	PATROL HEADQUARTERS	7-6-44	8-27-44	10-5-44	10-7-44	12-19-44	—	—	11-6-44	8-12-44	8-28-44	4-28-44	—	—	—	8-10-44	10-13-44	10-18-44	
2717-W	PAINT & RIGGING SHOP	8-20-44	8-20-44	10-5-44	10-5-44	12-19-44	—	—	11-6-44	8-18-44	2-16-44	8-2-44	—	—	—	6-10-44	10-13-44	10-18-44	
2718-W	LAUNDRY	2-28-44	3-6-44	3-10-44	3-9-44	3-26-44	—	—	6-15-44	7-28-44	0-30-44	8-8-44	—	—	—	10-7-44	10-22-44	10-18-44	
2719-W	EXTRA MACHINERY STOREHOUSE	10-20-44	11-1-44	—	—	—	—	—	—	—	—	—	—	—	—	1-29-44	11-20-44	12-18-44	
2719-W	BLAB YARD	3-28-44	4-3-44	—	—	—	—	—	—	—	—	—	—	—	—	8-1-44	12-20-44	12-18-44	
2721-W	MURKING PIT	—	8-1-44	—	—	—	—	—	—	—	—	—	—	—	—	8-10-44	12-20-44	12-18-44	
2724-W	CYLINDER STORAGE BLDG.	8-12-44	8-26-44	10-5-44	10-6-44	12-20-44	—	—	1-23-44	2-26-44	—	—	—	—	—	3-28-44	7-1-44	8-20-44	
2801-W	PIPE SUPPORTS	11-25-44	1-2-44	—	—	—	—	—	—	—	—	—	—	—	—	7-28-44	10-13-44	12-20-44	
2802-W	STEAM LINES	11-25-44	1-2-44	—	—	—	—	—	—	—	—	—	—	—	—	7-22-44	12-8-44	12-20-44	
2803-W	AIR LINES	11-25-44	1-2-44	—	—	—	—	—	—	—	—	—	—	—	—	7-31-44	7-21-44	12-20-44	
2804-W	PROCESS LINES	3-17-44	7-16-44	—	—	—	—	—	—	—	—	—	—	—	—	—	11-1-44	12-20-44	12-18-44
2801-W	WATER LINES & ELEV. TANKS	9-29-44	10-18-44	10-28-44	—	—	—	—	—	—	—	—	—	—	—	7-28-44	11-1-44	12-20-44	
2802-W	FIRE LINES & ELEV. TANKS	12-20-44	12-21-44	12-23-44	—	—	—	—	—	—	—	—	—	—	—	7-24-44	11-1-44	12-20-44	
2803-W	SANITARY SEWERS	12-18-44	1-8-44	—	—	—	—	—	—	—	—	—	—	—	—	11-1-44	12-20-44	12-18-44	
2804-W	PROCESS SEWERS	1-16-44	2-7-44	—	—	—	—	—	—	—	—	—	—	—	—	11-1-44	12-20-44	12-18-44	
*T.O.C. Building Transferred to Operations and Assigned Permanent Building Nos.																			
**Excavation Started on Preliminary Drawings.																			

**SECRET**

**PROGRESS OF CONSTRUCTION  
BUILDINGS & FACILITIES**

**200-N AREA**

**PROJECT 9536**

BUILDING NUMBER	NAME	DESIGN RELEASED	EXCAVATION		FOUNDATIONS		STRUCTURAL STEEL		SUPERSTRUCTURE		EQUIPMENT INSTALLATION		TEST RUNS		START-UP DATE	COMPLETION DATE	DATE ACCEPTED BY	
			STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	MAJOR EQUIPMENT	TEST RUNS			OPERATION	GOVT.
212-S	Lag Storage Bldg.	10-29-43	12-18-43	1-1-44	2-21-44	7-24-44	6-13-44	6-21-44	6-6-44	8-11-44	6-18-44	8-28-44	8-12-44	8-18-44	12-4-44	9-10-44	9-26-44	10-11-44
212-P	Lag Storage Bldg.	10-29-43	12-8-43	12-17-43	1-6-44	7-28-44	7-10-44	7-22-44	8-28-44	9-30-44	7-6-44	9-29-44	10-8-44	10-6-44	1-3-45	9-29-44	12-20-44	12-20-44
212-R	Lag Storage Bldg.	10-29-43	11-17-43	12-6-43	1-6-44	8-21-44	8-8-44	8-23-44	7-21-44	10-13-44	8-27-44	10-20-44	10-27-44	10-29-44	1-8-45	11-8-44	12-30-44	12-30-44
212-JR	Magazine Bldg.	4-1-44	4-11-44	5-15-44	5-17-44	6-18-44	-----	-----	6-8-44	8-30-44	7-21-44	9-29-44	-----	-----	-----	8-29-44	9-22-44	10-11-44
251	Primary Substation	1-8-44	1-17-44	1-30-44	1-25-44	8-12-44	4-29-44	4-30-44	3-8-44	8-10-44	2-6-44	8-21-44	-----	-----	6-17-44	10-18-44	1-17-45	12-14-44
252-N	Secondary Substation	1-81-44	6-29-44	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	8-27-44	9-1-44	*11-2-44	*10-28-44
253-N	Distribution Substation	2-1-44	8-1-44	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	11-3-44	11-8-44	10-28-44
2601-N	Fences & Road Lighting	2-1-44	8-1-44	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	8-27-44	11-3-44	*11-2-44	*10-28-44
2608-N	Electric Lines	2-1-44	8-1-44	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	8-27-44	11-3-44	*11-2-44	*10-28-44
2608-B	Telephone Cable & Instruments	1-28-44	8-18-44	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	11-20-44	11-20-44	-----	-----
2604-N	Standard Gauge Track	9-17-43	9-20-43	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	9-12-44	9-29-44	12-30-44	12-30-44
2603-N	Roads & Walks	9-17-43	8-14-44	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	9-18-44	12-30-44	12-20-44
2606-N	Fences (Incl. Guard Tower)	10-15-43	8-25-44	8-26-44	8-27-44	8-18-44	-----	-----	6-16-44	7-28-44	7-18-44	8-11-44	-----	-----	8-27-44	8-28-44	9-26-44	10-11-44
2606-P	Fences (Incl. Guard Tower)	10-15-43	8-25-44	8-29-44	8-30-44	7-7-44	-----	-----	7-8-44	8-11-44	7-24-44	8-11-44	-----	-----	-----	8-18-44	12-20-44	10-1-44
2606-R	Fences (Incl. Guard Tower)	10-15-43	7-20-44	7-20-44	7-21-44	7-22-44	-----	-----	7-24-44	9-29-44	7-28-44	8-29-44	-----	-----	-----	8-29-44	12-28-44	12-20-44
2606-JR	Fences (Incl. Guard Tower)	4-1-44	8-18-44	8-19-44	8-20-44	8-8-44	-----	-----	8-22-44	7-7-44	8-30-44	8-23-44	-----	-----	-----	8-29-44	12-6-44	12-6-44
2607-N	Septic Tank	1-29-44	8-14-44	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	7-28-44	10-9-44	10-18-44
2607-P	Septic Tank	1-29-44	8-14-44	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	7-28-44	10-9-44	10-18-44
2612-N	Open Drainage Ditches	2-8-44	7-1-44	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	7-28-44	12-30-44	12-20-44
2614-N	General Monitoring Station	7-8-44	8-15-44	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	9-1-44	9-26-44	9-8-44
2743-N	Gate House & Guard Tower	1-19-44	8-26-44	8-27-44	8-29-44	8-28-44	-----	-----	8-10-44	7-60-44	7-18-44	8-11-44	-----	-----	-----	8-28-44	8-28-44	10-11-44
2743-P	Gate House & Guard Tower	1-19-44	8-26-44	8-28-44	8-29-44	7-7-44	-----	-----	7-8-44	8-18-44	7-18-44	8-22-44	-----	-----	-----	8-28-44	12-30-44	12-20-44
2743-R	Gate House & Guard Tower	1-19-44	7-20-44	7-22-44	7-23-44	7-28-44	-----	-----	7-80-44	8-29-44	8-20-44	8-28-44	-----	-----	-----	8-28-44	12-20-44	12-20-44
2743-J	Gate House & Guard Tower	1-19-44	8-23-44	8-23-44	8-23-44	8-30-44	-----	-----	8-80-44	7-34-44	8-60-44	8-18-44	-----	-----	-----	8-28-44	12-6-44	12-6-44
2901-N	Water Lines	8-18-44	4-22-44	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	8-12-44	8-28-44	12-20-44	12-18-44
2908-N	Sanitary Sewers	2-8-44	8-14-44	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	7-28-44	12-30-44	12-30-44
2904-N	Process Sewers	2-8-44	8-14-44	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	8-11-44	12-30-44	12-30-44
2906-PZ	Wells & Pumps	8-8-44	8-1-44	8-1-44	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	8-28-44	12-30-44	12-14-44

NOTE: The dates shown on this sheet reflect the time at which the various interim stages of construction were essentially completed.

In some cases, these dates will vary slightly from the final dates carried in the weekly Progress Report.

\* Initial acceptance.

**SECRET**

SHEET 6 OF 8 SHEETS

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**SECRET**

HANFORD ENGINEER WORKS

# CONSTRUCTION PROGRESS

BUILDING AND AREA ESTIMATED AND ACTUAL PERCENT COMPLETE

200-N



JULY		AUGUST			SEPTEMBER				OCTOBER				NOVEMBER			DECEMBER				JANUARY						
1	2	8	15	22	29	5	12	19	26	3	10	17	24	31	7	14	21	28	5	12	19	26	22	9	16	23

212 P

212 R

213 J

213 K

251 N

2800N

2800  
R/R/J

2743J

2743H

2.

2743R

2801N

2808N

2809N

2810N

2811N

2812N

2813N

2814N

2815N

2816N

2817N

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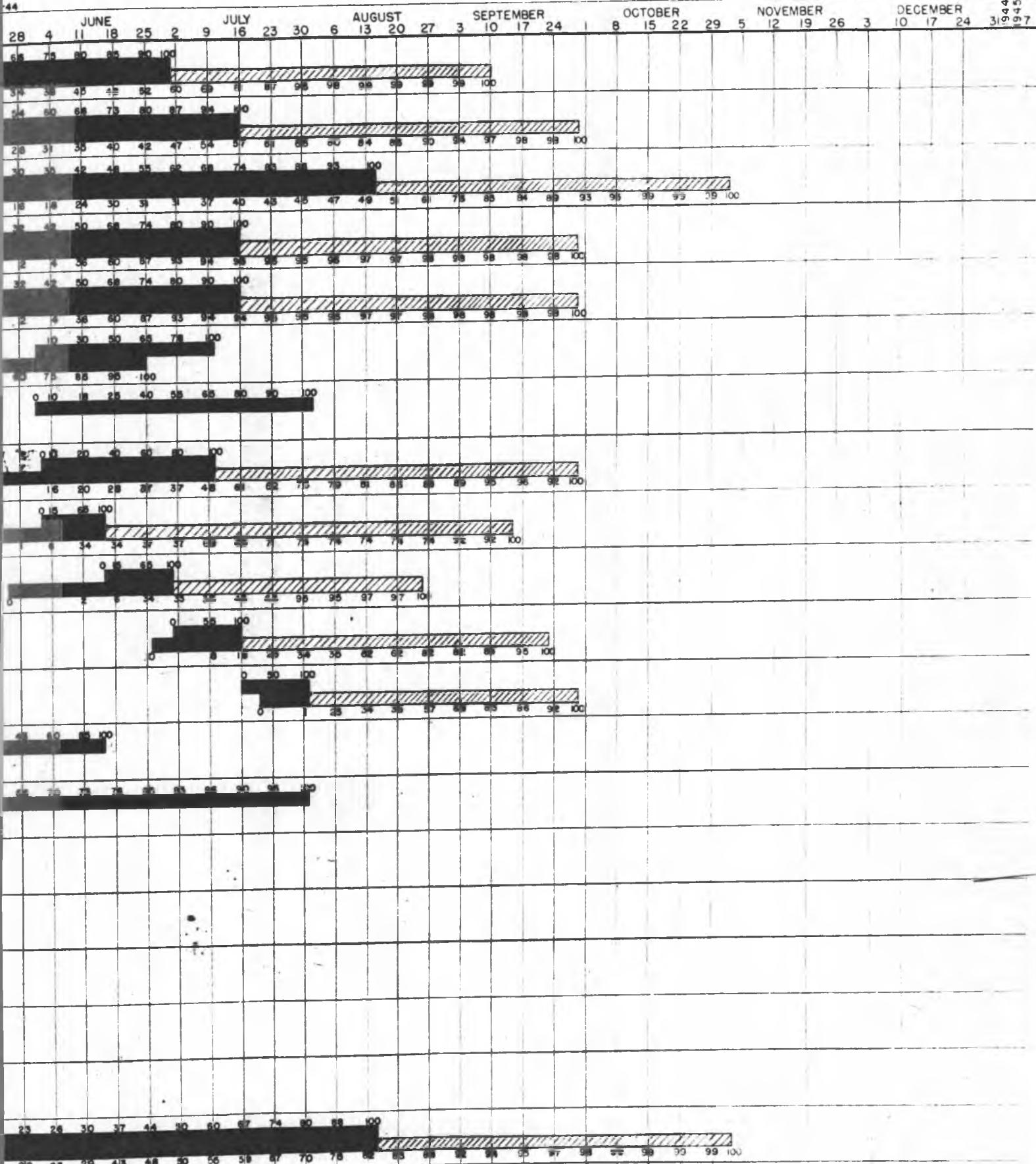
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**NOTE:**  
• Drop Due To Reassigned Weights.

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SHIFT WORK SCHEDULES (200 AREAS)

Shift Work 200-West Area Buildings

<u>Building</u>	<u>Time Requested</u>	<u>Shift</u>	<u>Reason</u>
211-T & U	3-15-44 *3-1-44	2	To meet schedule
211-T & U	12-30-43 *3-15-44	2	Amount of concrete
222-T & U	3-15-44 *3-1-44	2	To meet schedule
224-T & U	12-30-43 *3-1-44	2	Amount of concrete
231-W	7-7-44	2	To meet schedule
241-T & U	6-3-44	2	Tie in with Subcontractor
271-T & U	3-15-44 *3-1-44	2	To meet schedule
291-T & U	3-15-44 3-1-44	2	To meet schedule

Note: On September 9, 1944, additional approval was requested to install cell piping and equipment on two-9-hour shift basis.

\* Dates for U Buildings.

Shift Work 200-East Area Buildings

<u>Building</u>	<u>Time Requested</u>	<u>Shift</u>	<u>Reason</u>
221-B	11-24-44	2	Install Cell Floor Templates
224-B	12-20-44	*3	Spray Painting
"B" Group	1-11-45	2	Flushing & Testing Lines

Note: On January 10, 1945, additional approval was requested to install cell piping and equipment on two 9-hour shift basis.

\* Third Shift Only.

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LIST OF SUBCONTRACTORS  
200-West, East & North Areas

<u>RPG NO.</u>	<u>SUBCONTRACTOR</u>	<u>SCOPE OF WORK</u>	<u>BUILDING</u>
54 <sup>1</sup> & 1678 <sup>1</sup>	Haughton Elevator Company	Elevators	224-T, U, B, & 271-T, U, B
170 <sup>1</sup>	Tate-Jones & Company	Heat Treating Furnaces	273-E
173 <sup>1</sup> & 587 <sup>1</sup>	Rust Engineering Company	Concrete Chimney	291-T, U, B, & C & 284-E & W
241 <sup>1</sup>	Clinton Bridge Works	Structural Steel	272-E & W, 283 E & W 284-E & W, 212-N, P, & R
305 <sup>1</sup>	Erie City Iron Works	Boiler Erection	284-E & W
416	A. A. Durand & Son	Wells, Dry Wells	212-R, 241-T, U, B, & C
403 & 4339	Guy F. Atkinson Company	Railroads	All Areas
407	Myers Bros., & N.M. Ball Sons	Excavation & Road Construction	221-T, U, B, & C 241-T, U, B, & C
408	Newberry-Chandler-Lord	C.P.F.F. - Electrical Work	All Areas
410	Hanford Concrete Contractors	Furnishing Ready-Mix Concrete	All Areas
411	Hancock-Jones-Zahniser-Harren	C.P.F.F. - Piping Work	All Areas
567 <sup>1</sup> & 1938 <sup>1</sup>	W. E. Caldwell Company	Elevated Water Storage Tanks	2901-E & W, 2902-E & W
658 <sup>1</sup>	Link Belt Company	Coal Handling Systems	284-E & W
808 <sup>1</sup>	Philadelphia Iron Works	Boiler Breachingings	284-E & W
1180 <sup>1</sup>	Connery Construction Company	Forced Draft Ducts	284-E & W

LIST OF SUBCONTRACTORS - Cont'd.  
200-West, East & North Areas

<u>RPG NO.</u>	<u>SUBCONTRACTOR</u>	<u>SCOPE OF WORK</u>	<u>BUILDING</u>
1451 <sup>1</sup>	Morrison-Bechtel-McCone	Composite Storage Tanks	241-T, U, B, & C
1473 <sup>1</sup>	Asbestos Supply Company	Thermal Insulation	200-E, W, & N Areas
2115 <sup>1</sup>	Triplet Barton Company, Inc.	X-Ray Inspection	241-T, B, & C
3564 <sup>1</sup>	National Gunité Construction Company	Catch Basin & Settling Tanks	241-T, U, B, & C
3778 <sup>1</sup>	E. F. Hauserman Company	S/S Enclosures	224-T, U, & B
3589 <sup>1</sup>	Graver Tank Company	Furnishing & Installing Condensers	241-T, B, & C
4332	William Vail	Built-up Roofing Subcontractor No. 2	200-E, W, & N Areas
4335	National Gunité Construction Company	Gunité Reservoirs	282-E & W
4354	H. R. Parsons Tile Company	Asphalt Tile & Linoleum	222-T, U, & S; 271-T, U, & S 292-T, U, & S; 2704-E & W 2719-E & W

~~SECRET~~

VENDORS RECEIVING PREMIUM PAYMENTS (200 AREA)

Listed below are the principal vendors which were allowed premium payments for Sunday and overtime work:

<u>Vendor</u>	<u>Material</u>
Waldrip Engineering Co.	Cell Fabrication & Piping
Associated Piping Engineering Co.	Cell Fabrication & Piping
Pittsburgh Piping Company	Cell Piping
Pennsylvania Furnace & Iron Co.	Cell Piping
S. Bickmon Company	Centrifuges
Bird Machine Company	Centrifuges
Alloy Fabricators	Tanks
Joyce Machine Company	Connectors

~~SECRET~~

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TELEPHONE COMPANIES

The Site of the Hanford Engineer Works involves territory previously served by and contiguous to the following telephone companies:

Columbia River Telephone Company

Kennewick-Valley Telephone Company

Eltopia Telephone Company

Oregon-Washington Telephone Company

Mesa Telephone Company

Pacific Telephone and Telegraph Company

The first five mentioned companies maintained a franchise for telephone service on the site. After thorough study it was decided that none of the five companies had sufficient experience, background, technical ability, available equipment, or general experience in dealing with a problem of this scope to meet the plant requirements.

## PERMANENT ROAD CONSTRUCTION

**GEORGE**

#### A. New Construction

### **1. Black-top**

12' width	9.33 miles
14' width	19.64 miles
16' width	0.12 mile
20' width	106.62 miles
22' width	9.65 miles
30' width	52.65 miles

**Subtotal** 1 198.01 miles ✓

## 2. Gravel

18' width                    2.80 miles  
 30' width                    0.58 mile

#### B. Existing Roads, Improved and Maintained

### 1. Black-top

**12' width**      **8.30 miles**  
**16' width**      **3.50 miles**

**Subtotal**      **11.80 miles**

## 2. General

16' width                    0.70 miles  
18' width                    3.50 miles

**Subtotal** 6.20 miles

C. Existing Roads, maintained only

## 1. Black-top

16' width 9.50 miles  
17' width 14.50 miles

**Subtotal**      **24.00 miles**

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2. Gravel

18' width              3.75 miles

Subtotal              3.75 miles

D. Patrol Trails, Improved and Maintained

12' width              25.00 miles  
16' width              20.90 miles

Subtotal              45.90 miles

Grand Total              291.0<sup>4</sup> miles

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## BUILDING LIST - TENTH AVENUE CONSTRUCTION

700 &amp; 1100 AVE - RICHLAND

Sheet 1

CODE	NAME OF BUILDING	NO. OF BUILDINGS	SIZE	FLOOR AREA SQ. FT.	VOLUME CU.FT.	TYPES OF CONSTRUCTION	FACILITIES INSTALLED	LOCATION
100-07	ENGINEERS' OFFICE	1	230 x 75 x 12	15750	189000	Wood Frame, Horizontal Siding	Lighting, Heating, Telephone, Water	W. of 10th Street
	STRUCTURE WAREHOUSE	1	115 x 75 x 18	8625	69000	Same	Lighting	W. of 10th Street
	DRIVING & RELATIONS SHOPS	3	45 x 21 x 12	2829	34650	Steel Huts	Lighting, Heating, Telephone	On 10th Street Between 7th & 8th
	TELEPHONE EXCHANGE	2	30 x 20 x 12	600	7200	Wood Frame, Stucco Siding, Existing Structure	Lighting, Heating, Telephone, Water	On 10th Street Between 7th & 8th
	POST OFFICE	1	18 x 15 x 12	270	3240	Wood Frame, Horizontal Siding	Lighting, Heating, Telephone	On 10th Street Between 7th & 8th
	SIGNAL CORPS OFFICE	1	41 x 26 x 12	1066	12780	Existing Wood Frame Residence	Lighting, Heating, Telephone, Water	W. of 10th Street Between 7th & 8th
	U.S. & SIGNAL CORPS WAREHOUSE	1	105 x 69 x 21	7240	152200	Existing Wood Frame, Horizontal Siding Structure	Lighting, Heating, Telephone	New 10th & 11th
	SIGNAL CORPS STORAGE SHP	1	45 x 21 x 12	945	11320	Metal Hut	Lighting, Heating	W. of 10th Street Between 7th & 8th
	NO CONNECTED PATRICKMAN LIVING SHPS	4	102 x 18 x 12 Overall	1836	18360	Pacific wood huts - Gypsum Board Structure Between	Lighting, Heating, Water	New 10th & 11th
	POSTAL OFFICE	1	40 x 30 x 12	1200	14400	(Wood Frame, Brown Stucco Siding, Existing Residence)	Lighting, Heating, Telephone, Water	W. of 10th Street Between 7th & 8th
	WAREHOUSE SHP	1	45 x 21 x 12	945	11330	Metal Hut	—	New 10th & 11th
	PIPE SHP	1	60 x 40 x 12	2400	28800	Wood Frame, Vertical wood siding	Lighting, Heating, Telephone, Water	New 10th & 11th
	STORAGE SHP	1	36 x 18 x 10	648	6480	Pacific wood hut	—	New 10th & 11th
	LARGE OFFICE	1	15 x 30 x 10	300	3000	(Existing Wood Frame, Horizontal Siding)	Lighting, Heating, Telephone, Water	W. of 10th Street Between 7th & 8th
	SPECIAL CONSTRUCTION OFFICE	1	45 x 30 x 10	1350	13500	Existing wood frame residence	Lighting, Heating, Telephone, Water	W. of 10th Street Between 7th & 8th
	SPECIAL CONSTRUCTION SHPS	6	48 x 21 x 10	4320	43200	Steel Huts	Lighting, Heating, Telephone	W. of 10th Street Between 7th & 8th
	DRIVING STORAGE SHP	1	75 x 20 x 10	1500	15000	Wood Frame, Open Sides	—	W. of 10th Street Between 7th & 8th
	SPECIAL COMMERCIAL SHPS	3	48 x 20 x 10	3240	32400	Metal Hut	Lighting, Heating, Telephone	W. of 10th Street Between 7th & 8th
	WATER OFFICE & SHP	1	46 x 60 x 13	3940	51480	Existing wood frame residence plus the paper covered addition	Water	W. of 10th Street Between 7th & 8th
	DRIVER'S GARAGE	1	50 x 30 x 15	1500	22500	Existing Wood Frame Building	—	W. of 10th Street Between 7th & 8th
	THE HOME HOME	1	51 x 26 x 15	1224	14350	Existing Wood Blks., Simulated Brick Shingle	Lighting, Heating, Telephone, Water	On 10th Street Between 7th & 8th
	THE DRIVING EQUIP. HOUSE	1	36 x 15 x 14	540	7560	Wood Frame Building	Lighting, Heating, Water	On 10th Street Between 7th & 8th
	THOMAS'S SHP	1	48 x 21 x 10	1080	10800	Metal Hut	Lighting, Heating, Water	On 10th Street Between 7th & 8th
	THOMAS'S SHOPS	2	40 x 16 x 10	1280	12800	Pacific wood huts	Lighting, Heating, Water	On 10th Street Between 7th & 8th
	DRIVER'S LOFT	1	25 x 50 x 15	1250	12750	Existing wood frame, horizontal siding	Same	On 10th Street Between 7th & 8th
	STORAGE BUILDING	1	31 x 138 x 15	42700	55460	Same	Lighting, Heating, Telephone	On 10th Street Between 7th & 8th
	WAREHOUSE OFFICE & STORAGE	1	40 x 36 x 20	1440	28800	Wood Frame Existing Church	Lighting, Heating	On 10th Street Between 7th & 8th
	STEEL METAL SHP	1	45 x 24 x 20	1080	23600	Same	Lighting, Heating	On 10th Street Between 7th & 8th
	TRANSPORTATION GARAGE	1	25 x 50 x 15	1250	18750	Wood Frame, Horizontal Wood Siding, Partition Section	Lighting, Heating, Telephone, Water	On 10th Street Between 7th & 8th
	WAREHOUSE SHPS	3	150 x 40 x 20	18000	360000	Compressed Air	—	W. of 10th Street Between 7th & 8th
	ARKE STORAGE SHP	1	150 x 40 x 20	6000	120000	Lighting, Heating	—	W. of 10th Street Between 7th & 8th
	WAREHOUSE WAREHOUSES	2	186 x 96 x 15	35712	535680	Metal Hut	—	W. of 10th Street Between 7th & 8th
	5-PUMP GAS STATION GARAGE	1	72 x 39 x 20	4810	56200	Wood Frame, Gypsum Board Siding	Light, Heat, Water, Telephone, Air	W. of 10th Street Between 7th & 8th
	LOCK ALLEY	2	20 x 15 x 12	300	3600	Wood Frame, Horizontal Siding	Light, Heat, Telephone	On 10th Street Between 7th & 8th
	ARMY SHP	1	45 x 21 x 12	945	11350	Metal Hut	Light, Heat, Telephone	On 10th Street Between 7th & 8th
	ARKE WAREHOUSE	1	80 x 40 x 20	3200	64000	Existing wood frame horizontal siding structure	—	On 10th Street Between 7th & 8th

## BUILDING LIST - TEMPORARY CONSTRUCTION

700 &amp; 1100 AREA - RICHLAND

Sheet 2

CODE	NAME OF BUILDING	NO. OF BUILDINGS	SIZE	PLAN AREA SF. FT.	VOLUME CU. FT.	TYPE OF CONSTRUCTION	PUBLIC UTILITIES	LOCATION
TC 37	BANK OFFICE & CASHIER SHL	1	40 x 90 x 15	3600	54000	Wood Frame, Horizontal Siding	Light, Heat, Telephones	On Swift between Gillmore & Guthrie
	PLATE METAL & BRIDGE NETS	1	65 x 65 x 21	4225	59400	2 Metal Sheet Sides by Slab, Wood Frame Gypsum Board Building Between	Light, Heat, Telephones	NE Corner of Swift & Gillmore
	BANK OFFICE FORMERLY FIRST AID	1	35 x 80 x 15	1200	18000	Wood Frame, Gypsum Board Siding	Light, Heat, Telephones	E. of Gillmore Near 1224-1148
	OUTSIDE ELECTRIC LIQUID HUT	1	35 x 80 x 15	1200	18000	Same	Light, Heat, Telephones, Water	W. of Gillmore Near 1224-1148
	PIPE OFFICE	1	35 x 40 x 10	650	6000	Metal Hut	Light, Heat, Telephones	E. of Gillmore Near 1224-1148
	PIPE SHOP	1	39 x 48 x 14	1870	26200	Wood Frame, Horizontal Siding	Same	Near 220-1148
	PIPE GARAGE	1	80 x 70 x 15	7200	108000	Same	Same	Same
TC 5	PIPE DEPT LOT	1	310 x 150 x 25	16500	412500	Wood Frame, Gypsum Board Siding	Light, Heat, Telephones, Water	Near 1220-1128
		1	165 x 395	48700	—	Staked Loading & Unloading Base	—	Near 1270-1132
TC 7	GROUND WATER STORAGE	1	30 ft. 0 x 20	707	1150	Steel bound 10,000 Gal. Steel Tank	Electric Pump 1-in. G. & 1-in. S. K.	Near 1224-1138
	POINTER PULP HOUSE	1	25 x 15 x 8	375	500	Wood Frame, Horizontal Siding	Gasoline, 1-in. 1,500 Gal.	Same
	CHLORINATOR HOUSE	1	12 x 12 x 20	144	1440	Same	Power, Telephone, Light, Heat, water	Same
	MILL NO. 2	1	30 x 30 x 15	—	—	—	Same	Same
	MILL NO. 13	1	9x5 G.P.M.	—	—	—	—	Near 1224-1138
	WATER LINES		(10000 - 3" ) ( 450 - 6" ) ( 1700 - 8" )			Welded Steel Pipe, Screwed & Coupled Pipe Sch. #40		
TC 8	ELECTRICAL LINES TRANSFORMER BANK	1	30 x 30	900	—	Used Existing Lines & Transformers of I.T. & Light Co. & B.E.A. Systems Open Framing Enclosed by Wire Fence	Some New Installations 1 - 30 KVA Trans. F. 600v/208v S	Area Sides NE corner of 30th & Lee
TC 11	WASTE DISPOSAL NO. 1							
	DISCHARGE TANK	1	16 x 52	728	—	Wood Frame and Baffled	None	Same
	CHLORINATOR HOUSE	1	12 x 12 x 10	144	1440	Wood Frame Cable Roof Building	Lighting, Heating	Same
	MIX HOUSE	1	10 x 10 x 10	100	1000	Same	Same	Same
	SETTLING TANK	1	40 x 60	3200	—	Wood Frame and Baffled	None	E. of Sec. Washington 1224-1138
	WASTE DISPOSAL NO. 2							
	DISCHARGE TANK	1	32 x 24	728	—	Wood framed - baffled	None	Same
	CHLORINATOR AIR HOUSE	1	30 x 10 x 10	300	1000	Wood framed, horizontal siding	Lighting, Heating	Same
	CHLORINATOR CONTACT CHAMBER	1	40 x 10	400	—	Wood framed and baffled	None	Same
	SETTLING TANK	1	80 x 60	3200	—	Wood framed and baffled	None	Same
	SEWER LINES		1" # 1" #			Concretes pipe		

- A This can not be a list of temporary construction items. See page 8.2 of text, clarify.
- B Number of units not understood. This code covers 140 existing tract houses in APP. B-56.
- C APP. B-56 provides for 643 units - one less than the total shown here (assume this included the Public Health Center shown under B-56 code 1153 which checks ok)
- D APP B-56 does not have a code 1107. All units are shown under 1108. (Code 1107 referred to by code 1153 - APP B-56)
- E APP. B-56 covers 1800 units
- F Assume this is library. See APP B-56.

**WILLIAM L. & ROBERT G. STERK**

THE JOURNAL OF CLIMATE

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RICHLAND VILLAGE

<u>Code Number</u>	<u>Name</u>	<u>New</u>	<u>Existing</u>	<u>Total</u>
1106	Site Residences		140*	140*
1109	Housing Units			
	Type A Houses	816		816
	Type B Houses	1,040		1,040
1106	Supervisors' Houses			
	Type F Houses	250		250
	Type H Houses	250		250
1107	Staff Residences			
	Type D Houses	8		8
	Type E Houses	84		84
	Type G Houses	8		8
	Type L Houses	44**		44**
1129	Prefabricated Houses			
	Type A Houses	402***		402***
	Type B Houses	802***		802***
	Type C Houses	600		600
	<b>Total Housing Units</b>	<b>4,304</b>	<b>140</b>	<b>4,444</b>
1110	Dormitories	25		25
1111	Stores			
	Food Stores	5		5
	Drug Stores	3		3
	General Merchandise Store	1		1
	Variety Stores	1		1
	Shoe Repair Shop	1		1
	Women's and Childrens' Apparel	1		1
	Barber and Beauty Shop	1		1
	Milk Depot	1		1
	Electrical Shop		1	1
	Optical Shop		1	1
	Hardware Store		1	1
	Men's Apparel and Shoe Store		1	1
	Automotive Garage & Service Station	1		1
	Service Stations	3		3
	Western Union Office		1	1
	Unoccupied Store		1	1
1112	Churches			
	Protestant	1	1	2
	Catholic	1		1

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RICHLAND VILLAGE (Continued)

<u>Code Number</u>	<u>Name</u>	<u>New</u>	<u>Existing</u>	<u>Total</u>
1113	Schools			
	Grade Schools	3	1	4
	High School	1		1
	Nursery (existing house modified)	1		1
1114	Theatres	2		2
1115	Bank	1		1
1116	Municipal Buildings			
	Patrol Headquarters (Village)	1	1	1
1117	Transient Quarters (Hotel)	1		1
1118	Hospital	1		1
1119	Post Office	1		1
1120	Laundry	1		1
1121	Cafeteria	1		1
1123	Propane Gas Storage	1		1
1125	Recreation Building	1		1
1124	Sewage Disposal Plant & Lift Stn	1		1
1126	Warehouses	8	1	9
1130	Bus Depet (Commercial)	1		1
1131	Bus Transfer Station & Main. Garage (Plant)	1		1
1132	Ambulance Garage	1		1
1133	Village Maintenance Bldgs. Gp.	1		1
1134	Red Cross Building		1	1
1136	Professional Building	1		1
1138	Dog Pound		1	1
1139	Transportation Garage (Gvt.)	1		1
1140	Railway Express	1		1

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RICHLAND VILLAGE (Continued)

<u>Code Number</u>	<u>Name</u>	<u>New</u>	<u>Existing</u>	<u>Total</u>
1142	Fire Stations	1	1	2
1148	Ration Office		1	1
1182	Reservoirs Reservoir Pump Houses	2	2	2
1186	Well Pump Houses	8		8
1186	Irrigation Pump Houses	5	1	6

<u>Code Number</u>	<u>Facilities and Services</u>
1102	Roads and Walks
1106	Water And Fire Protection System
1104	Sewer System
1115	Electrical Service
1128	Coal Storage Yard
1127	Swimming Pool and Comfort Station
1128	Enclosure Fence for Irrigation Canal
1135	Miscellaneous Recreation Facilities
1157	Salvage Yard
1189	Burning Ground
1141	License Office
1148	Trailer Storage Lot
1181	Substations (2)
1158	Fire Alarm System
1156	Telephone System
1168	Airport
1185	Wells
1186	Irrigation System

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RICHLAND VILLAGE (Continued)

<u>Code Number</u>	<u>Facilities and Services</u>
--------------------	--------------------------------

1187	Steam Distribution System
------	---------------------------

\* Approximate - on basis of information as of 1 March 1945. Some of the above buildings were originally provided for temporary purposes. Only 25 were later converted and incorporated into the Village as permanent structures.

\*\* 1 L Type house in use as Public Health Center.

\*\*\* 4 (2 each type A and B) provided for sample and experimental houses-- later shipped to Bonneville Power Administration.

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700 A R E A

Buildings

<u>Building Number</u>	<u>Building Name</u>
701	Gate House
702	Telephone Building
703	Administration Building
704	Supervisors' Office
705	Employment Building
706	Laboratory
707	Change House
712-A, 712-B	Permanent Record Storage Buildings (2)
718	Central Receiving Storeroom
713-A	Laboratory Storeroom
714	Material Shed
715	Oil and Paint Storage
718	Automotive Repair Shop
717, 717-A	Fabrication Shop (2)
720	Patrol Headquarters
721	Military Intelligence Building
722-A	Area Shop (2)
722-C	Carpenter Shop
722-D	Paint Shop
722-E	Paint Shop
722-F	Pipe Shop No. 1
722-G	Pipe Shop No. 2
722-K	Furniture Distribution Office

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<u>Building Number</u>	<u>Building Name</u>
722-L	Multilith Office
722-M	Area General Foreman
722-N	Electrical Shop
722-P	Orientation Unit
722-R	Transportation Parts and Storage
723	Laundry
724	Printing Plant Building
729	Spare Machinery Storage Building
734	Cylinder Storage Building
744	Brick Storage Building
751	Primary Substation
784	Boiler House
784-A	Emergency Generator and Water Softening Building
7601	Standard Gauge Track
7603	Roads and Walks
7605	Fences
7613	Permanent Parking Area
7614	General Monitoring Station
7621	Two Emergency Generator Shelters
7801	Pipe Supports
7802	Steam Lines
7803	Air Lines
7901	Water Lines
7902	Fire Lines
7905	Sanitary Sewer Lines

~~CONFIDENTIAL~~

A Clearer print should be provided

Building Number

7901 ✓

7902 —

7903 ✓

Building Name

Water Lines ✓

Fire Protection Lines ✓

Sewers —

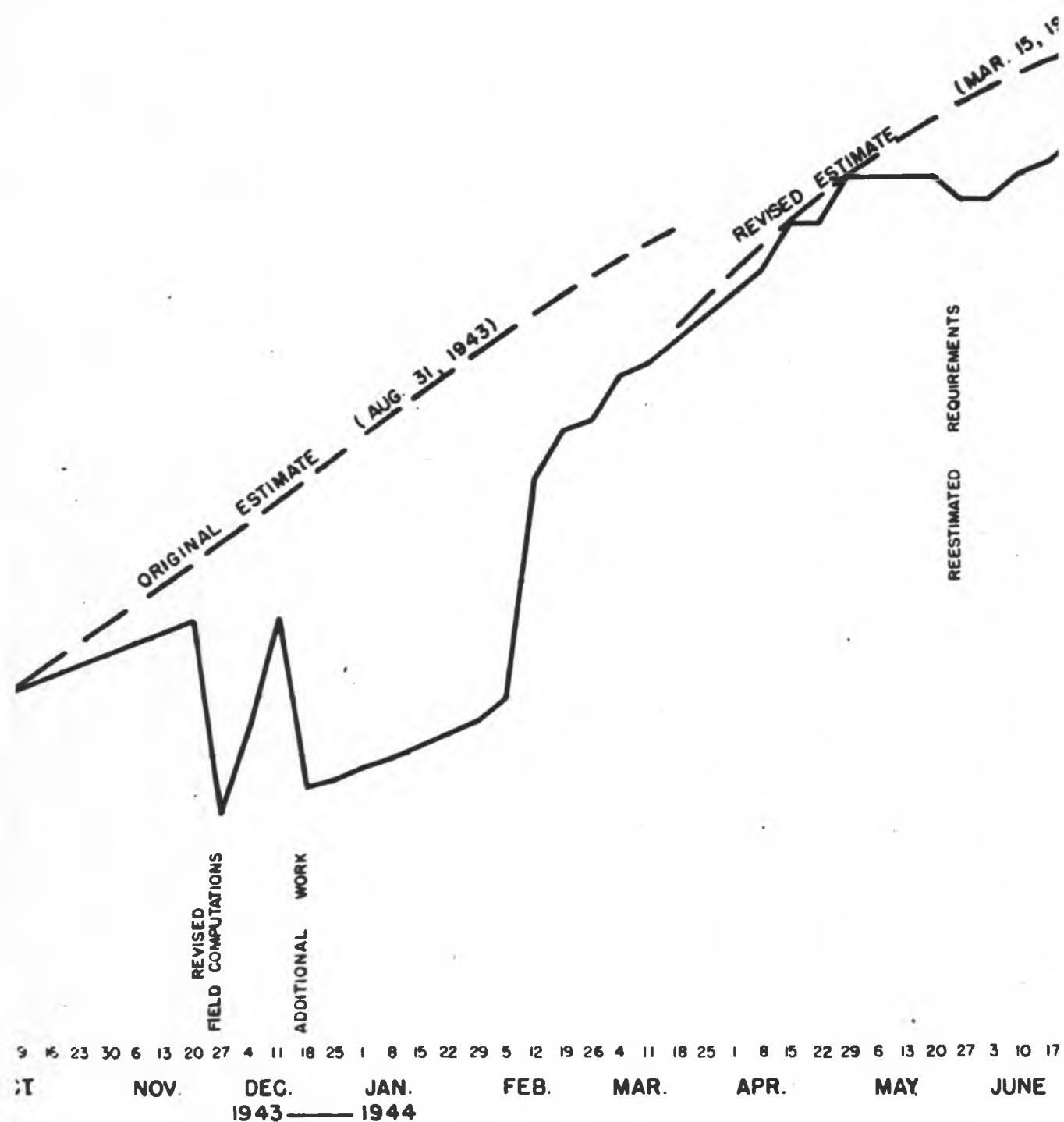
A Portions of sheet 1 are nonreadable



12	19	26	2	9	16	23	30	7	14	21	28	4	11	8	25	2	9	6	23	30	6	3	30	27	3	10	17	24	3	10	17	24	31			
AUG.	SEPT	OCT	NOV	DEC	1944	1945	JAN	FEB	MAR																											

B 51

RICHLAND VILLAGE PROGRESS  
( 1100 AREA )  
H. E. W.  
9536



100

LEGEND

— — — ESTIMATED PROGRESS  
— — — ACTUAL PROGRESS

80

70

60

50

40

30

20

10

0

PERCENT

0 7 24 8 15 22 29 5 2 9 26 3 10 7 24 31 7 14 21 28 4 11 18 25 2 9 16 23 30 6 13 21

APR MAY

JUNE

JULY

AUG.

SEPT.

OCT

NOV.

ORIGIN

**SECRET**

**PROGRESS OF CONSTRUCTION  
BUILDINGS & FACILITIES  
700 AREA  
PROJECT 9536**

BUILDING NUMBER	NAME	DESIGN RELEASED	EXCAVATION		FOUNDATIONS		STRUCTURAL STEEL		SUPERSTRUCTURE		EQUIPMENT INSTALLATION		TEST RUNS MAJOR EQUIPMENT		START-UP DATE	COMPLETION DATE	DATE ACCEPTED BY	
			STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE			OPERATION	GOV'T.
	Entire 700 Area	8-16-43														4-20-44	4-24-44	4-21-44
T01	Gate House and Clock Alleys	8-10-43	1-24-44	3-15-44	1-25-44	1-22-44	---	---	2-8-44	3-10-44	---	---	---	---	---	4-1-44	4-7-44	4-8-44
T02	Telephone Exchange	8-22-43	9-18-43	11-20-43	9-18-43	11-10-43	---	---	10-1-43	6-1-44	---	---	---	---	---	11-4-44	1-23-45	8-20-45
T03	Administration Building	8-23-43	11-2-43	6-2-44	11-6-43	6-12-44	---	---	11-12-43	6-12-44	---	---	---	---	---	8-10-44	6-7-44	6-8-44
T04	Supervisors' Office (Bns T22-N)	8-19-43	10-18-43	11-19-43	10-20-43	11-8-43	---	---	11-9-43	11-23-43	---	---	---	---	---	8-11-44	6-8-44	8-6-44
T05	Deployment Building	8-16-43	8-3-44	8-10-44	8-8-44	8-10-44	---	---	8-11-44	8-8-44	---	---	---	---	---	8-11-44	8-8-44	8-8-44
T06	Laboratory	8-7-43	2-18-44	4-22-44	8-18-44	4-8-44	---	---	8-8-44	4-22-44	---	---	---	---	---	8-11-44	1-18-45	2-19-45
T07	Change House	8-10-43	1-10-44	3-4-44	1-22-44	3-5-44	---	---	1-22-44	1-21-44	---	---	---	---	---	8-1-44	7-31-44	7-4-44
T12	(1) Permanent Record Storage Bnts	---	12-13-44	---	---	---	---	---	---	---	---	---	---	---	---	8-17-45	8-20-45	8-9-45
T13	Central Receiving Storeroom	8-10-43	11-8-43	1-17-44	11-30-43	11-28-43	---	---	11-27-43	1-22-44	---	---	---	---	---	8-10-44	8-28-44	8-8-44
T13-A	Laboratory Storeroom	---	6-20-44	---	---	---	---	---	---	---	---	---	---	---	---	11-7-44	8-28-44	8-2-44
+T13-B	(2) Storehouses	---	10-1-44	---	---	---	---	---	---	---	---	---	---	---	---	12-12-44	3-20-45	3-20-45
T14	Material Shed	8-7-43	6-8-44	8-12-44	6-12-44	4-15-44	---	---	4-17-44	8-28-44	---	---	---	---	---	8-23-44	10-21-44	10-16-44
T15	Oil and Paint Storage	8-7-43	6-20-44	---	---	---	---	---	---	---	---	---	---	---	---	9-11-44	10-31-44	10-10-44
T16	Automotive Repair Shop	7-22-43	2-8-44	4-1-44	8-11-44	4-1-44	---	---	8-8-44	4-22-44	---	---	---	---	---	7-8-44	7-31-44	7-4-44
T17	Central Receiving Storeroom	9-20-43	1-3-44	1-31-44	1-7-44	1-17-44	---	---	1-11-44	1-24-44	3-27-44	4-18-44	---	---	---	7-31-44	3-19-45	3-9-45
T17-A	Fabrications Shop	9-20-43	8-21-44	8-25-44	8-25-44	7-14-44	---	---	7-5-44	7-30-44	---	---	---	---	---	8-10-44	7-31-44	7-8-44
+T20	Patrol Headquarters (Bns TC Comt. Office)	7-17-43	8-18-43	8-28-43	8-20-43	8-28-43	---	---	8-21-43	8-8-43	---	---	---	---	---	12-12-44	3-20-45	3-20-45
T21	Military Intelligence Building	8-16-44	8-18-44	8-10-44	8-22-44	8-12-44	---	---	8-25-44	8-10-44	---	---	---	---	---	7-6-44	8-28-44	8-12-44
T22-A	Area Shop	8-26-43	11-2-43	6-2-44	11-5-43	6-30-44	---	---	11-25-43	8-1-44	1-18-44	8-1-44	---	---	---	7-6-44	8-28-44	8-12-44
T22-B	Paint Shop	---	11-2-43	---	---	---	---	---	---	---	---	---	---	---	---	8-10-44	6-7-44	4-8-44
T22-C	Supervisors' Office	3-7-44	8-29-44	8-30-44	8-29-44	7-20-44	---	---	7-31-44	8-8-44	---	---	---	---	---	11-18-44	8-28-44	2-24-44
T22-D	Paint Storage	8-24-43	30-23-44	---	---	---	---	---	---	---	---	---	---	---	---	12-23-44	1-29-44	1-30-44
T22-E	Paint Shop	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1-23-44	1-30-44	1-30-44
T22-F	Pipe Shop #2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1-30-44	2-2-44	---
T22-G	Pipe Shop #1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1-29-44	1-27-44	1-27-44
T22-H	Furniture Distribution	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1-28-44	1-27-44	1-27-44
T22-I	Multigraph	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1-26-44	1-27-44	1-27-44
T22-J	General Foreman	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1-21-44	1-24-44	1-24-44
T22-K	Electrical Storage	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1-31-44	1-31-44	1-31-44
T22-L	Orientation	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1-31-44	1-31-44	1-31-44
T22-M	Transportation Parts Storage	---	---	---	---	---	---	---	---	---	---	---	---	---	---	7-20-44	3-7-44	10-10-44
T23	Laundry	8-18-43	2-21-44	8-10-44	2-23-44	8-1-44	---	---	8-2-44	8-28-44	8-1-44	8-28-44	---	---	---	---	---	---
T24	Printing Plant (1 Bnts)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	11-11-44	2-28-44	3-2-44
T25	Spare Machinery Storage	8-2-44	8-20-44	---	---	---	---	---	---	---	---	---	---	---	---	11-11-44	2-28-44	3-2-44
T26	Central Cylinder Storage	---	9-25-44	---	---	---	---	---	---	---	---	---	---	---	---	11-11-44	2-28-44	3-2-44

**SECRET**

SHEET 1 OF 2 SHEETS

B  
C  
2

**PROGRESS OF CONSTRUCTION  
BUILDINGS & FACILITIES  
700 AREA  
PROJECT 9536**

BUILDING NUMBER	NAME	DESIGN RELEASED	EXCAVATION		FOUNDATIONS		STRUCTURAL STEEL		SUPERSTRUCTURE		EQUIPMENT INSTALLATION		TEST RUNS MAJOR EQUIPMENT		START-UP DATE	COMPLETION DATE	DATE ACCEPTED BY	
			STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE	STARTED	COMPLETE			OPERATION	GOV'T.
744	Brick Storage	---	3-18-44	3-19-44	3-20-44	4-16-44	---	---	4- 7-44	5-25-44	---	---	---	---	---	6-23-44	7- 6-44	7- 1-44
781	Primary Substation	6-16-43	6-16-43	---	---	---	---	---	---	---	---	---	---	---	---	6-25-43	12-11-44	10-31-44
784	Meeting Plant	6-13-43	6-18-43	1-17-44	9-30-43	12-18-43	10- 6-43	1-17-44	10- 6-43	1-31-44	10-15-43	*1-31-44	---	---	---	3- 8-44	9-18-44	9-16-44
784-A	Emergency Generator & Water Softening Bldg.	6-13-44	6-24-44	---	---	---	---	---	---	---	---	---	---	---	---	3-10-45	3-28-44	3-23-44
7801	Fences & Road Lighting	6-10-43	---	---	---	---	---	---	---	---	---	---	---	---	---	1- 3-45	1- 5-45	1- 5-45
7803	Electric Lines	---	4-23-43	---	---	---	---	---	---	---	---	---	---	---	---	1- 3-45	1- 5-45	1- 5-45
7805	Fire Alarm System	---	8-18-43	---	---	---	---	---	---	---	---	---	---	---	---	3-24-45	3-26-45	3-26-45
7806	Telephone Cable & Instruments	---	---	---	---	---	---	---	---	---	---	---	---	---	7-12-43	+	---	---
7801	Railroad Track	---	7-9-43	---	---	---	---	---	---	---	---	---	---	---	---	1-26-45	1-27-45	1-27-45
7808	Roads & Walks	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1-28-45	3-28-45	3-28-45
7806	Fences	---	4-19-43	---	---	---	---	---	---	---	---	---	---	---	---	3-29-45	3-30-45	3-30-45
7815	Parking Areas	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7814	General Monitoring Station	---	1-20-44	---	---	---	---	---	---	---	---	---	---	---	---	9-16-44	9-14-44	9-14-44
7821A-B	Emergency Electric Generator (Gas) Stations	---	6-20-44	---	---	---	---	---	---	---	---	---	---	---	---	9- 5-44	9- 4-44	9- 4-44
7801	Pipe Supports	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3-23-45	3-23-45	3-23-45
7802	Outside Overhead Steam Lines	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2- 5-45	2-17-45	2-17-45
7803	Outside Overhead Air Lines	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3-23-45	3-23-45	3-23-45
7801	Water Lines	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1-26-45	2- 1-45	2- 1-45
7902	Fire Protection Lines	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3-23-45	3-23-45	3-23-45
7903	Sanitary Sewers	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1-26-45	2- 1-45	2- 1-45
7904	Process Sewers	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3-23-45	3-23-45	3-23-45
* Converted T.C. or Existing Buildings																		

SHEET 2 OF 2 SHEETS

**SECRET**

HANFORD ENGINEER WORKS  
PROJECT 9536  
INTER-AREA BUS SCHEDULE

*Effective December 18, 1944.*

*Service  
Monday through Saturday*

HANFORD - 100 AREA "F" - WHITE BLUFFS

LV HANFORD TERMINAL NO. 1	8:15 AM	9:45 AM	11:15 AM	12:45 PM	2:15 PM	3:45 PM
HANFORD ADM. BLDG.	8:20 AM	9:50 AM	11:20 AM	12:50 PM	2:20 PM	3:50 PM
100 AREA F FIRST AID	8:40 AM	10:10 AM	11:40 AM	1:10 PM	2:40 PM	4:10 PM
100 AREA F DIV. ENG. OFFICE	8:45 AM	10:15 AM	11:45 AM	1:15 PM	2:45 PM	4:15 PM
100 AREA F CARPENTER SHOP	8:50 AM	10:20 AM	11:50 AM	1:20 PM	2:50 PM	4:20 PM
WHITE BLUFFS	9:00 AM	10:30 AM	12:00 NOON	1:30 PM	3:00 PM	4:30 PM
PIERCE'S SPUR	9:10 AM	10:40 AM	12:10 PM	1:40 PM	3:10 PM	4:40 PM
HANFORD ADM. BLDG.	9:25 AM	10:55 AM	12:25 PM	1:55 PM	3:25 PM	4:55 PM
AR HANFORD TERMINAL NO. 1	9:30 AM	11:00 AM	12:30 PM	2:00 PM	3:30 PM	5:00 PM

HANFORD - 200 AREA EAST - CENTRAL SHOPS

LV HANFORD TERMINAL NO. 1	8:15 AM	9:45 AM	11:15 AM	12:45 PM	2:15 PM	3:45 PM
HANFORD ADM. BLDG.	8:20 AM	9:50 AM	11:20 AM	12:50 PM	2:20 PM	3:50 PM
200 AREA EAST FIRST AID	8:45 AM	10:15 AM	11:45 AM	1:15 PM	2:45 PM	4:15 PM
200 AREA EAST DIV. ENG. OFFICE	8:50 AM	10:20 AM	11:50 AM	1:20 PM	2:50 PM	4:20 PM
200 AREA EAST BUS LOT	6:54 AM	10:24 AM	11:54 AM	1:24 PM	2:54 PM	4:24 PM
CENTRAL SHOPS FIRST AID	9:06 AM	10:36 AM	12:06 PM	1:36 PM	3:06 PM	4:36 PM
CENTRAL SHOPS CRAFT SUPT. OFFICE	9:10 AM	10:40 AM	12:10 PM	1:40 PM	3:10 PM	4:40 PM
HANFORD ADM. BLDG.	9:35 AM	11:05 AM	12:35 PM	2:05 PM	3:35 PM	5:05 PM
AR HANFORD TERMINAL NO. 1	9:40 AM	11:10 AM	12:40 PM	2:10 PM	3:40 PM	5:10 PM

BUSES WILL STOP ON CALL AT ALL MARKED BUS STOPS

BUS STOP SIGNS WILL READ "INTER-AREA BUS STOP"

DISTRIBUTION  
RADIOS: A R C D E AND E

FOR THE AREA ENGINEER  
J. S. BARRISH, CAPT., C. E.  
TRANSPORTATION OFFICER  
By: B. H. STALKER

Effective January 15, 1945

Monday through Saturday

- HANFORD - PASCO

LV HANFORD ADM. BLDG.	8:30 AM	9:45 AM	11:15 AM	12:45 PM	2:15 PM	3:45 PM
RICHLAND OPERATIONS ADM. BLDG.	9:25 AM	10:40 AM	12:10 PM	1:40 PM	3:10 PM	4:40 PM
CONSTRUCTION ADM. BLDG.	9:35 AM	10:50 AM	12:20 PM	1:50 PM	3:20 PM	4:50 PM
AR PASCO - GRAY BLDG.	10:05 AM	11:20 AM	12:50 PM	2:20 PM	3:50 PM	5:20 PM

PASCO - HANFORD

LV PASCO - GRAY BLDG.	9:00 AM	10:30 AM	12:00 NOON	1:30 PM	3:00 PM	4:30 PM
RICHLAND CONSTRUCTION ADM. BLDG.	9:35 AM	11:05 AM	12:35 PM	2:05 PM	3:35 PM	5:05 PM
OPERATIONS ADM. BLDG.	9:45 AM	11:15 AM	12:45 PM	2:15 PM	3:45 PM	5:15 PM
AR HANFORD ADM. BLDG.	10:35 AM	12:05 PM	1:35 PM	3:05 PM	4:35 PM	6:05 PM

FOR THE AREA ENGINEER.

J. L. DICKSON, CAPT., C. E.  
TRANSPORTATION OFFICER

BY: B. H. STALKER

CONSTRUCTION TRANSPORTATION DEPT.

DISTRIBUTION

GROUPS: A,B,C,D,E AND F

HANFORD ENGINEER WORKS  
PROJECT 9536  
INTER-CITY SHUTTLE BUS SCHEDULE

EFFECTIVE FEBRUARY 16, 1945

SERVICE  
MONDAY THROUGH SATURDAY

RICHLAND - HANFORD

LV	RICHLAND CONSTRUCTION TRANSPORTATION GARAGE	8:00 A. M.	1:00 P. M.
LV	RICHLAND CONSTRUCTION ADMINISTRATION BUILDING	8:10 A. M.	1:10 P. M.
LV	RICHLAND OPERATIONS ADMINISTRATION BUILDING	8:20 A. M.	1:20 P. M.
LV	HANFORD BUS GARAGE	9:15 A. M.	2:15 P. M.
LV	HANFORD TIME OFFICE	9:20 A. M.	2:20 P. M.
Ar	HANFORD ADMINISTRATION BUILDING	9:25 A. M.	2:25 P. M.

HANFORD - RICHLAND

LV	HANFORD ADMINISTRATION BUILDING	10:30 A. M.	3:30 P. M.
LV	HANFORD TIME OFFICE	10:35 A. M.	3:35 P. M.
LV	HANFORD BUS GARAGE	10:45 A. M.	3:45 P. M.
LV	RICHLAND OPERATIONS ADMINISTRATION BUILDING	11:40 A. M.	4:40 P. M.
LV	RICHLAND CONSTRUCTION ADMINISTRATION BUILDING	11:50 A. M.	4:50 P. M.
Ar	RICHLAND CONSTRUCTION TRANSPORTATION GARAGE	11:55 A. M.	4:55 P. M.

G. P. CHURCH  
FIELD PROJECT MANAGER

PER J. E. K. Linan  
W. E. REDMON  
FIELD SUPERINTENDENT

DISTRIBUTION  
(GROUPS A, B, C, D, E AND F)

SERVICE

**BER WORKS  
3<sup>rd</sup> BUS SCHEDULE**

FAN 1 F 2

SHEAR NO. 3 AND STATES

## TO AND FROM AREAS.

AND AREAS.

ICE.

\*STOPS AT RICHLAND ONE TERMINAL ON CALL

**HANFORD ENGINEER WORKS  
CONSTRUCTION EMPLOYEES' BUS SCHEDULE**

DIRECT SERVICE...OFF PLANT...TO AND FROM AREAS.

## SERVICE BETWEEN HANFORD AND AREAS.

## INTER-CITY SERVICE.

✓ AND SUNDAY

\*STCPS

CONSTRU

DIRECT SERV  
SERV 1

EFFECTIVE FEB. 19, 1945 TO FEB. 23, 1945.

	AM	AM	AM	AM	AM	AM	AM	AM
CENTRAL SHOPS						7.20		7.50
WHITE HUFFS						1		1
FIERCE'S SPUR						1		1
RAIL YARD NO. 2						6.55		7.25

HANFORD TERMINAL

	5	9	0	0	3	8	8
HOT FORD AVE. PLGS.	1.20	2.10	2.35	3.20	6.50	6.55	7.10
RICHLAND BUS TERMINAL							
RICHLAND CLOCK ALLEY	2.10		3.25		7.47		
RICHLAND CAFETERIA				1.10	7.20	7.50	
RICHLAND						5.55	
PASCO-HAN-PROSSEY JCT.	2.30		3.43		5.47	6.02	
KENNEWICK-WHITE KITCHEN	2.10		4.35		5.35	5.50	
KENNEWICK-PAULSONS	2.40		3.37		5.33	5.48	
GOV'T. TRAILER CAMP	2.45		4.30		5.30	5.45	
PASCO	2.50		4.35		5.25	5.40	
BENTON CITY							5.30
PROSSER							5.30
GRANDVIEW							5.45
SUNNYSIDE							5.25

A = SERVICE DAILY EXCEPT SATURDAY AND SUNDAY

**P = SERVICE DAILY EXCEPT SUNDAY**

3 - 1114

PAGE : OF ?

FORD 8499

FOR THE AREA ENGINEER  
J. L. DICKSON, CAPT., C. E.  
TRANSPORTATION OFFICER

BY: A. M. SCHERFFIUS  
CONSTRUCTION TRANSPORTATION DEPT.  
PHONE - HANFORD 8551

P	D	P	D	P	M	P	M	P	M	P	M	P	M	S	E	R	R	
P.M.	F.M.	P.M.	P.M.	P.M.	P.M.													
5.10	5.10												5.00					
5.10																	5.40	
															5.40	5.40		
5.30	5.35															5.50	5.55	6.00
B	D	D	B	D	D	D	D	D	D	D	D	D	D	D	D	D	D	
5.10																		
	5.40		7.10															
A			A															
5.10	5.10	5.45	5.40	5.10														
5.25	5.25																	
5.25	5.33																	
5.40	5.40																	
5.42	5.42																	
5.45	5.45																	
5.50	5.50																	
V																	V	
5.25	V																	
5.25	5.33																	
5.40	5.40																	
5.48	5.48																	
7.00	7.00																	
7.02	7.02																	
7.05	7.05																	
7.10	7.10																	
6.25																		
6.35																		
6.48																		
7.05																		
7.20																		
7.20																		
7.40																		
7.40																		
7.50																		

FOR ADDITIONAL SERVICE - CALL HANFORD 8561 OR HANFORD 8499

	9 P.M.	P.M.	P							
CENTRAL SHOPS		4.50					5.10	5.10		
WHITE BLUFFS			↑			5.10				
PIERCE'S SPUR										
RAIL YARD NO. 2				5.10						
	4.25			5.20	5.30	5.35				
HANFORD TERMINAL										
	3	6	3	8			D	D	.8	
	4.50	5.10	6.10						6.40	
HANFORD ADM. BLDG.										↑
RICHLAND BUS TERMINAL										↑
RICHLAND CLOCK ALLEY				5.10	5.10		5.40	5.47	5.4	
RICHLAND CAFETERIA										
RICHLAND	3.50	5.10	↓				3.20	3.23		
PASCO-HAN-PROSSE JCT.	3.42	5.13	5.23				3.25	3.33		
KENNEWICK-WHITE KITCHEN	3.30	5.30	5.35				3.40	3.45		
KENNEWICK-FAULSONS	3.23	5.32	5.37				3.42	3.47		
GOVT. TRAILER CAMP	3.25	5.35	5.40				3.45	3.50		
PASCO	3.20	5.40	5.45				3.50	3.55		
SEYTON CITY										6.2
PROSSER										6.5
GRANDVIEW										7.1
SUNNYSIDE										7.3

FOR ADDITION

DISTRIBUTION

GROUPS: A, S, C, D, E AND F

~~SECRET~~

## SAFETY MEETINGS

Among the safety meetings scheduled were:

1. Orientation meetings, for all new employees, including those of the subcontractors, which were conducted by a safety engineer who delivered carefully-prepared orientation talks to the workers on their first day of employment.
2. Bi-weekly foremen's meetings attended by gang foremen and supervisors.
3. Area Division Engineers' weekly planning meetings held in each area.
4. Weekly safety School meetings held for all of the contractors' Safety Department Personnel.
5. Monday Tool Box Meetings attended by gang Foremen's crews on the work site.
6. Area mass meetings when called.
7. Special purpose meetings when called.

A more up to date chart should be ready.

11-12

~~SECRET~~

SAFETY PROGRAM RESULTS

<u>Year</u>	<u>Man-Hours</u>	<u>Frequency</u>	<u>Severity</u>
1943	22,949,335	4.92	1.99
1944	97,289,789	6.57	1.21
Thru July 1945	<u>6,037,544</u>	<u>0.33</u>	<u>0.06</u>
TOTAL	126,276,668	5.97	1.30

<u>Year</u>	<u>No. Accidents All Types</u>	<u>Fatalities</u>	<u>No. Days Lost</u>
1943	113	7	45,732
1944	639	13	117,577
1945	<u>2</u>	<u>0</u>	<u>346</u>
TOTAL	754	20	163,675

~~SECRET~~

~~SECRET~~

**PROJECT COST SUMMARY - MILITARY FUNDS**  
**FINAL DETAIL COST STATEMENT**

REPORTING OFFICE HANFORD ENGINEER WORKS PROJECT DESCRIPTION PLUTONIUM  
MONTH ENDING 31 DECEMBER 1946 PRODUCTION PLANT

INDEX AND RECAPITULATION

<u>PAGES</u>	<u>DESCRIPTION</u>	<u>AMOUNTS</u>
1	INDEX AND RECAPITULATION	
2-44	MAIN PLANT	
2-11	OUTSIDE FACILITIES	
2-3	500 Area	5,941,283
3-8	600 Area	25,299,867
8-9	800 Area	2,152,495
9-11	900 Area	13,803,131
11	SW	1,561,011
11	GR	588,055
11	TOTAL OUTSIDE FACILITIES	49,345,842
12-38	PLANT BUILDINGS	
12-17	100 Area	118,661,222
17-20	1700	2,290,835
21-28	200 Area	68,843,690
28-32	2700	1,171,306
33-35	300 Area	7,086,309
35-38	3700	2,178,423
38	TOTAL PLANT BUILDINGS	200,231,785
39-44	GENERAL ADMIN. & MAINTENANCE	
39-44	700 Area	3,939,564
44	TOTAL GENERAL ADMIN. & MAINTENANCE	3,939,564
44	TOTAL MAIN PLANT	253,517,191
45-55	TOWNSITE	
45-55	1100 Area	43,674,392
55	TOTAL TOWNSITE	43,674,392
56-64	SPECIAL CONSTRUCTION FEATURES	
56-60	HANFORD CAMP (FE-27, HC, GC, TC-4)	37,589,302
60-62	TEMPORARY CONSTRUCTION	10,828,155
63	HANFORD AIRPORT	70,533
63	CENTRAL SHOPS	1,070,050
63	3000 AREA	495,305
64	MAINTENANCE OF FARM LANDS	856,312
64	TOTAL SPECIAL CONSTRUCTION FEATURES	50,909,657
		<i>101 Bldg., p. 62</i>
64	GRAND TOTAL	<u>50,909,657</u>
65-66	MEMORANDUM OF METHODS USED	<u>348,101,240</u>

**PROJECT COST SUMMARY - MILITARY FUNDS**  
**-FINAL DETAIL COST STATEMENT-**

REPORTING OFFICE... HANFORD ENGINEER OFFICE..... PROJECT DESCRIPTION... PLATINUM PRODUCTION PLANT

MONTH ENDING.....

31 DECEMBER 1946

CODE ID	ACCOUNT DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS																									
			ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL																								
<b>MAIN PLANT:</b>																																
<b>GENERAL OUTSIDE FACILITIES:</b>																																
OUTSIDE ELECTRICAL LINES, INCLUDING TELEPHONES, ALARM SYSTEMS, ETC.:																																
501	Fence and Road Lighting  Series Road and Fence Lighting is provided for the main roads in the 100, 200, 300 and 700 Areas, and for the respective area boundary fences. Additional lighting is provided for secondary fences around 106, 702, and 703 buildings.  Vapor-proof lighting fixtures are used for both fence and road lights. 35' class 3 poles spaced 125' in the 100 and 200 Areas and 250' in 300 and 700 Areas support the fence lights, but road lights are supported on power poles where possible. Circuits are equipped with constant current regulators and automatic time switches. The fence circuits also supply electric power to Guard Towers and Monitoring Stations. Telephone lines are carried on the same poles.	LS	1	426,292	426,292																											
	Lighting Circuits Length in Feet  <table border="1"><thead><tr><th>Area</th><th>Road</th><th>Fence</th><th>Road</th><th>Fence</th></tr></thead><tbody><tr><td>100</td><td>53,560'</td><td>73,228'</td><td>125</td><td>558</td></tr><tr><td>200</td><td>70,560'</td><td>65,000'</td><td>198</td><td>721</td></tr><tr><td>300</td><td>10,880'</td><td>8,150'</td><td>20</td><td>50</td></tr><tr><td>700</td><td>5,000'</td><td>14,500'</td><td>7</td><td>87</td></tr></tbody></table>	Area	Road	Fence	Road	Fence	100	53,560'	73,228'	125	558	200	70,560'	65,000'	198	721	300	10,880'	8,150'	20	50	700	5,000'	14,500'	7	87						
Area	Road	Fence	Road	Fence																												
100	53,560'	73,228'	125	558																												
200	70,560'	65,000'	198	721																												
300	10,880'	8,150'	20	50																												
700	5,000'	14,500'	7	87																												
503	Electrical Distribution Lines  Electrical Distribution Lines between and within the areas are provided and are carried under this building code except 1100 Richland Village Distribution Lines (see 1108). 230,000V, 65,000V, 13,800V and 2,300V 3-phase transmission lines are used for the inter-area distribution of electrical power and 13,800V, 2,300V, 440/220V, and 220/110V single pole, 3-wire lines are used for the intra-area distribution of electrical power in the 100, 200, 300, 600 and 700 Areas. The main supply loop approximately 51 miles, consists of a 3 aluminum cables on bell type insulators suspended from 50 foot wood cross arms supported on 2 wood poles, 70' to 85' in length. Distribution lines are of 3-wire, cross arm, single pole construction. Class 2, 35' to 60' fir and cedar poles, and 3, 5 and 8 pin wood cross arms were used for line construction.  Listed below are approximate quantities of materials used in the construction of the outside electrical lines of 100, 200, 300, 600 and 700 areas. Totals are for permanent work only and do not include temporary construction or portions of those lines taken over by the Operating Department.	LS	1	3,764,621	3,764,621																											
	Material Total Length of Power Conductor      Quantity Total Number of Power and Light Poles      7,695 Concrete      772 cu.yds.																															
505	Fire Alarm Systems  Individual Fire Alarm Systems are provided in the 100-E, D, F; 200-E, M; and 300 Areas. These systems have electro-mechanical gongs mounted in Area Fire Stations, Pump Houses, etc. Outside sirens and fire alarm boxes are mounted on existing power poles wherever possible. All circuits are .106 and #6gal vanised iron wire carried in most cases on same poles as telephone lines.	Each	6	98,077	15,846																											
	Area      Length of Circuits      No. of Boxes 100-E      14,000 feet      10 100-D      19,250 feet      11 100-F      11,900 feet      11 200-E      16,000 feet      8 200-M      14,700 feet      10 300      8,270 feet      5																															
506	Telephone Cable & Instruments  The permanent plant-wide Telephone Communication System is made up of five general types of systems: An inter-area system running from the 702 building to a switchboard in each areas; an area system emanating from each switchboard, and a separate patrol system in each area; a number of inter-communication systems in certain buildings; a power dispatching system; and a railroad dispatching system.  Approximate overall length in feet and number of telephones (not including 2 dispatcher systems) is as follows:	LS	1	1,658,293	1,658,293																											
	Area      All Lines      Cable Lines      Other Lines      Phones 100-E,D,F      116,218      20,048      96,190      176 200-E,W,M      125,610      23,780      98,860      249 300      17,090      4,180      12,940      62 600      8,980      8,980      5																															

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**PROJECT COST SUMMARY - MILITARY FUNDS**  
**-FINAL DETAIL COST STATEMENT-**

REPORTING OFFICE..... ~~HANFORD ENGINEER WORKS~~ PROJECT DESCRIPTION PLUTONIUM PRODUCTION PLANT  
 MONTH ENDING..... 31 DECEMBER 1946

CODE NO	DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
			ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
500	Telephone Cable & Instruments (Continued)							
	Area Inter-Area Total	All Lines 52,400 586,315	Cable Lines 478,571 432,526	Other Lines 41,827 451,747	Phones 41 503			
	Sub-Total					5,041,283		
	GENERAL FACILITIES AND SERVICE:							
601	Standard Gauge Railroad Track	Miles	123.3		9,142,874		74,151	
	The permanent plant Railroad System, serving all Areas of the Hanford Engineer Works, consists of approximately 123.3 miles of standard gauge rail line track. This total includes 20 miles of reconditioned track of the old Milwaukee line, 5.4 miles of temporary railroad track which were left in place, and a 7 track, 225 car capacity classification yard. The railroads were divided into two types: Process tracks which are those over which the product may move; and Service tracks, which are all those other than Process Tracks. Process Tracks are both new and used rail weighing not less than 50# per yard. Approximately 16.2 miles of new 55# rail was installed. Service tracks were laid with used 65# rail.							
	One Railroad Track scale of 120 ton capacity and one Scale House is provided at the Riverland Classification Yards. Scale pit and a weight beam pit are of reinforced concrete, and the one-story scale house is wood frame.							
601-M	Railroad Maintenance	Miles	123.3		1,465,808		11,888	
	Maintenance of railroad track commenced immediately upon acquisition of the existing 25 miles of track and increased until the end of construction when 123 miles were under maintenance. Work included ballasting, lifting, aligning, replacing ties, rails, and plank crossings, and removing blown sand.							
602	Standard Gauge Rolling Stock	Lbs	1		772,038		772,038	
	This Account covers Standard Gauge Railroad Rolling Stock.							
	Quantity Description Quantity Description							
	1 Dummy Train (Used as Snow Plow) 10 Hooper Cars							
	2 120-ton Diesel Locomotives 5 Flat Bottom Gondolas							
	10 90-ton Underframe Cars with 1 Buda Inspection Car							
	6 tanks & 10 covers 6 Fish Cars							
	4 Railroad Undercarriage Water 5 Motor Cars							
	Tank Cars 1 N-W Trailers							
	2 Tractor Cranes - ½ cu.yds. Cap. 3 Caboose							
	4 50-ton Railroad Jacks 1 Power Rail Drill							
	2 80-ton Diesel Locomotives 2 Railroad Tank Cars							
	5 90-ton Gasoline Locomotives 1 130-ton Transformer Car							
	17 Flat Cars							
603	Roads and Walks	Lbs	1		6,453,224		6,453,224	
	The permanent Road System serving the entire plant has an overall length of approximately 291 miles, including Area and Inter-area, but not roads and streets of the 1100 Richland Village Area. Plant roads are a combination of new road construction, existing roads improved and maintained, existing roads maintained only, and existing trails improved and maintained. A double lane, separated highway extends from the South boundary of "A" Area North to the side of Hanford Camp and then West to a point beyond the process areas. All others are single lane. The widths vary from 12' to 36'.							
	A tabulation of types and lengths in miles follows:							
	Type Black Top Gravel Total							
	New Construction 196.01 3.18 201.39							
	Existing-Improved & Maintained 11.80 4.20 16.00							
	Existing-Maintained Only 26.00 1.75 27.75							
	Patrol Trails 56.50 -- 56.50							
	Total 279.71 11.33 291.04							
	A tabulation of Intra-area Roads (also included above) and Walks in miles is as follows:							
	Area Roads Walks							
	100 E,D,F. 3.18 0							
	200 E,W,N. 27.69 4.04							
	300 2.96 2.37							
	700 2.40 .41							
	Total 56.64 6.82							
	Most walks consist of a 2" layer of rolled bituminous surfacing varying from 3' to 4' wide.							
603-M	Permanent Road Maintenance	Miles	1		684,913		684,913	
	Road Maintenance commenced with the acquisition of the existing roads within the area and continued until the end of construction when 237 miles were under maintenance. The large amount of heavy traffic and high safety requirements on the existing light							

**PROJECT COST SUMMARY... MILITARY FUNDS**  
**-FINAL DETAIL COST STATEMENT-**

REPORTING OFFICE HANFORD ENGINEER WORKS PROJECT DESCRIPTION PLUTONIUM PRODUCTION PLANT  
 MONTH ENDING 31 DECEMBER 1946

CODE NO.	DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
			ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
603-M	Permanent Road Maintenance (Continued) Traffic design existing roads necessitated a large amount of maintenance work. The amount of maintenance work on the newly constructed roads was appreciably less.							
604	Autos, Tractors, and Trailers This account covers Autos, Tractors, Trailers and similar equipment.	LS	1		4,022,069		4,022,069	
	191 Sedans 17 Station Wagons 19 Carryalls 106 Buses 10 Ambulances 157 Pickups 1/4 ton 67 Trucks, 1/4 ton, Flatbeds 40 Trucks, Dump 72 Trucks, Various types 32 Trucks, w/Special Equipment 25 Pieces of Ground Equipment	27 Trailers, Various sizes 21 Cranes, Draglines & Grabshells 13 Tractors, Various sizes 42 Graders, Road Rollers, Scrappers Concrete Mixers, etc. Bicycles Motorcycles Welders Light Plants Pieces of Miscellaneous Equipment						
	Total 1,275							
605	Fences (Including Guard Towers and Traffic Checking Stations) Three types of Fence are provided on this project. Type No. 1 Fence, used around process areas and individual buildings, consists of an 8' section of woven wire fabric and 3 strands of barbed wire - making total height 9'-4". Posts are 4' square long on 10' centers and carry a 2'-4" overhanging bracket to support the barbed wire. Type No. 2 Fence, used as boundary line, consists of 4 strands of 1/2-inch barbed wire on 6'-6" posts, 4'-6" high. Third type is chain link fencing and was used to inclose Building 213. Seventy-two Guard Towers are provided and are elevated, one-room, wood frame, flat roof structures.	LS	1		947,182		947,182	
	Dimensions of Guard Towers 13'-6" x 11'-6" x 20' Linear Feet of Fence and Number of Guard Towers Area Type No. 1 Type No. 2 Chain Link Guard Towers 100 D.E. 67.17 ft. 108,000 ft. 17 200 E.W.N. 108,000 11,000 4 300 11,000 1,000 211,000 ft. (Ap prox.) 1 600 1,000 5,000 1,000 1 700 Total 137,175 ft. 211,000 ft. 1,000 ft. 72							
	Three Traffic Checking Stations are provided on the access roads to Area "A", and are composed of a multiple lane, partially open wood frame shed and a frame one-story office building.							
	Overall Dimensions Richland Hanford 11' x 10' x 12' 16,500 cu.ft. 1,400 sq.ft. Cold Creek 11' x 12' x 12' 16,300 cu.ft. 1,400 sq.ft. Prosser 11' x 9' x 12' 5,700 cu.ft. 480 sq.ft.							
606-B	Process Waste Pumping Station							
606-E	Process Waste Pumping Station Equipment							
	A Process Waste Pumping Station is provided in both the 100-D and 100-F Areas due to the topography. The 100E-D building is a rectangular shaped, two story, reinforced concrete structure having a flat, tar and gravel roof. The 100E-F building is a T-shaped, three-story, reinforced concrete structure having a flat tar and gravel roof.	Each	2		67,458		33,729	
	Overall Dimensions 1606-D 11' x 27' x 16' 16,500 cu.ft. 1,400 sq.ft. 1606-F 16' x 24' x 16' 55,850 cu.ft. 1,481 sq.ft.	Each	2		16,315		17,657	
	Material Concrete Roofing	Quantity 775 cu.yds. 4 squares	1606-D 1606-F 60 cu.yds. 12 squares					
612	Open Drainage Ditches Open Drainage Ditches, other than for roadside drainage, are provided in the 100, 200, 300, and 400 Areas. Ditch sections vary from 2' to 5' sections, with sides 1% to 2%, having 1/2 on 1 side slopes. Vitrified clay pipe, concrete pipe, and concrete and timber headwalls are used for road and railroad crossings and ditch junctions.	LS	1		67,598		67,598	
	Total Length of Open Ditches Area 2' wide 3' wide 4' wide 5' wide Total 100 P.D.F. 1,000 ft. 1,000 ft. 1,000 ft. 1,000 ft. 7,000 ft. 200 E.W.N. 11,300 ft. 3,500 4,200 700 ft. 1,550 ft. 21,270 ft. 300 500 400 100 300							
	Material Lumber Concrete V.C. Pipe Concrete Pipe	Quantity 170 f.b.m. 595 cu.yds. 1,410 lin. ft. various sizes 1,360 lin. ft. various sizes						

**PROJECT COST SUMMARY - MILITARY FUNDS**  
**-FINAL DETAIL COST STATEMENT-**

REPORTING OFFICE HANFORD ENGINEER WORKS  
 MONTH ENDING 31 DECEMBER 1946

PROJECT DESCRIPTION PLUTONIUM PRODUCTION PLANT

CODE NO.	DESCRIPTION	ACCOUNT	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
				ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
613	Permanent Parking Areas  Bituminous surfaced Permanent Parking Areas for private cars and bus loading lanes were constructed for the 100-E, D, F, G, H, K, M, 300 and 700 Areas. These areas were stabilized with water bound sand and gravel approximately 12" thick and covered with a 2" wearing course of hot mix bituminous gravel surface. Wooden car stops, railing and bus lanes were installed for safety. Ten parking areas occupy a total of 41,100 sq.ft.		Each	10		25,094		2,509	
	Material Lumber Bituminous Surfacing	Quantity 50,000 cu.yds. 2,550 cu.yds.							
614-B	General Monitoring Stations  General Monitoring Stations Equipment  Twenty-nine General Monitoring Stations are provided at advantageous orbital locations. This one-story, wood frame structure has concrete foundation and floor, drop-siding over sheathing walls with asbestos board lining, and built-in felt roofing.		Each	29		74,880	32,556	1,203	1,124
	Overall Dimensions 57'-8" x 61'-4" x 11'-8"	Volume 465 cu.ft.	Area 41 sq.ft.						
	Material Framing Siding Sheathing Concrete Roofing Asbestos Board Blanket Insulation	Quantity 500 f.b.m. 240 f.b.m. 700 f.b.m. 4.0 cu.yds. .14 squares 210 sq.ft. 210 sq.ft.							
615	Hot Mix Plant for Road Materials  One Hot Mix Plant for Road Materials is provided. This plant, originally built for construction, consists of an aggregate mixer, a dryer, eight steam heated storage tanks, a steam boiler, and three small frame sheds. Plant capacity is approximately one cubic yard per minute.		Each	1		41,783		41,783	
621-B	Emergency Generator Shelters  Emergency Generator Shelters Equipment  Twenty Emergency Generator Shelters are provided; three in each 100 Areas, three in each of two 200 Areas, three in 300 and two in the 700 Area. Shelters are of two types but similar wood frame, one-story, one-room construction having concrete equipment pads and foundations, cinder floor, drop-siding walls, and built-in felt roofing.		Each	20		14,819	18,274	734	714
621-E	Type A Type B	Overall Dimensions 10' x 15' x 11'-8" Volume 474 cu.ft. Area 60 sq.ft. 1,410 cu.ft. 135 sq.ft.							
	Material Framing Siding Sheathing Concrete Roofing	Quantity Type A 150 f.b.m. 160 f.b.m. 210 f.b.m. 2.2 cu.yds. .57 squares Type B 550 f.b.m. 500 f.b.m. 700 f.b.m. 4.5 cu.yds. 1.58 squares							
622-B	Meteorological Tower & Buildings  Meteorological Tower & Buildings Equipment  One Meteorological Tower is provided. A triangular-shaped, structural steel tower 408'-6" was erected between the 200 E and W Areas. It contains eight platform working levels and boom extensions which support meteorological equipment. Foundations and guy anchors are reinforced concrete, guys are galvanized wire rope.		Each	1		16,271	137,186	16,271	137,186
622-B	Dimensions Overall Tower Tower Base Tower Anchors (4) Tower 3 (12'-6" sides) - 408'-6" high 3 (16'-4" sides) - 5' thick 3' x 28' x 11'-6"								
	622-A - One Meteorological Building is provided. This is a two-story, L-shaped, wood frame building having concrete foundation and first floor, wood second floor, drop-siding over sheathing walls, and built-up felt, gravel surfaced, roofs. Walls, partitions and ceilings are lined with asbestos board.								
	Overall Dimensions 7' x 8' x 14'-8" x 14'-8"	Volume 1,148 cu.ft.	Area 104 sq.ft.						
622-B	622-B - One Meteorological Observatory Building is provided. Building is a one-story, frame, structure having a concrete foundation and floor and drop siding over sheathing walls. The gabled roof is roll roofing over sheathing.								
	Overall Dimensions 7' x 8' x 14'-8" x 14'-8"	Volume 1,148 cu.ft.	Area 104 sq.ft.						

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**PROJECT COST SUMMARY - MILITARY FUNDS**  
**-FINAL DETAIL COST STATEMENT-**

REPORTING OFFICE ..... HANFORD ENGINEER WORKS ..... PROJECT DESCRIPTION PLUTONIUM PRODUCTION PLANT  
 MONTH ENDING ..... 31 DECEMBER 1946 .....

CODE NO.	ACCOUNT DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COST		UNIT COSTS	
			ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
b22	Meteorological Tower & Buildings (Continued)							
	Material	Quantity	b22	b22-A	b22-B			
	Lumber (fence)(f.b.m.)	1,100						
	Framing (f.b.m.)	7,500	500					
	Siding (f.b.m.)	1,150	300					
	Sheathing (f.b.m.)	2,750	425					
	Flooring (f.b.m.)	120						
	Concrete (cu.yds.)	347	13.5	6				
	Reinforcing Steel Mesh (sq.ft.)		760					
	Reinforcing Steel (tons)	6.7						
	Structural Steel (tons)	14.8						
	Woven Wire (50' high)	661						
	Barb Wire (feet)	1,440						
	Asbestos Board (sq.ft.)		2,800					
	Blanket Insulation (sq.ft.)		2,000					
	Roofing (squares)		7.9	1.26				
b23-B	Radio Transmitter Station							
b23-B	Radio Transmitter Station Equipment							
	One Radio Transmitter Station is provided, being a Fire Observation Station also. This former TC building is a two-story, wood-frame structure having wood floors, gypsum board exterior and cellophane interior walls, and roof covered with roll roofing. Concrete is used for stair foundations and building anchors. Second floor has windows on four sides.							
	Overall Dimensions	Volume	Area					
	9' x 15' x 22'	2,376 cu.ft.	108 sq.ft.					
	Material	Quantity						
	Framing	750 f.b.m.						
	Sheathing	250 f.b.m.						
	Flooring	150 f.b.m.						
	Concrete	1.5 cu.yds.						
	Gypsum Board	425 sq.ft.						
	Celophane	550 sq.ft.						
	Roofing	1.3 squares						
c2	Secondary Substation							
	One Secondary Substation is provided at the Classification Yards. It is a 4 pole, open wood frame structure with concrete equipment pads and a wood picket fence.							
	Overall Dimensions	Volume	Area					
	10' x 28' x 34'	500 cu.ft.	500 sq.ft.					
	Material	Quantity						
	Lumber (Fence)	600 f.b.m.						
	Concrete	12.70 cu.yds.						
e53	Distribution Substations							
	One Distribution Substation is provided at Riverland Yards and one near the Meteorological Tower. These Substations are open frame construction using wood pole structures surrounded by picket fences. Equipment is placed on concrete foundations and on elevated wood platforms suspended between poles.							
	Overall Dimensions	Volume	Area					
	12' x 18' x 12'	1,000 cu.ft.	1,000 sq.ft.					
	Material	Quantity						
	Lumber (Fence)	600 f.b.m.						
	Concrete	12.70 cu.yds.						
e61	Rifle and Pistol Range							
	One Rifle and Pistol Range is provided, being a former T.C. structure. The one-story, frame Range House has post and girder foundations set on wood mats, wood floor gypsum board exterior and interior walls and ceilings, roll roofing, and three brick chimneys. The well House has reinforced concrete pit walls and floor, gypsum board siding, and roll roofing. Sanitary sewer system and parking area are provided.							
	Four ranges are constructed: Army type "L" Pistol Range, Thompson Sub-Machine Gun Range, Dale and Lewis Pistol Range, and FBI Killer Course Range. The area is fenced on three sides and a mountain forms the fourth side.							
	Dimensions	Volume	Area					
	Overall	125' x 12' x 10'						
	Range House	10' x 7' x 10'-6"	.8,000 cu.ft.	2,400 sq.ft.				
	Pistol Range	255' x 250'		63,750				
	Sub-Machine Gun Range	155' x 500'		127,500				
	Walk A Draw Pistol Range	155' x 520'		132,000				
	Special Range	170' x 240'		40,400				
	Pest House	7' x 9' x 15'-6"	0.76	b3				
	Septic Tank	4' x 7' x 3'	0.4	28				
	Parking Area	1' C.R. Radius		11,417				

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PROJECT COST SUMMARY - MILITARY FUNDS  
-FINAL DETAIL COST STATEMENT-

REPORTING OFFICE ..... HANFORD ENGINEERING WORKS PROJECT DESCRIPTION ..... PLUTONIUM PRODUCTION PLANT  
MONTH ENDING ..... 11 DECEMBER 1946

CODE NO.	ACCOUNT DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
			ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
601	Rifle and Pistol Range (Continued)							
	Material	Quantity						
	Framing	15,100 f.b.m.						
	Sheathing	6,080 f.b.m.						
	Flooring	2,900 f.b.m.						
	Reinforcing Steel	1.0 tons						
	Concrete	15 cu.yds.						
	Bricks	1,000 bricks						
	Gy-sum Board	1,750 sq.ft.						
	Sheet Rock	1,000 sq.ft.						
	Roofing	12.64 squares						
	Asphalt Road Surfacing	900 cu.yds.						
699	Miscellaneous Tools and Equipment	LS	1		546.936		546.936	
	This account covers the cost of all small tools and miscellaneous shop equipment not allocated for use in any specific building or facility.							
b150-E -135-E	Water Treatment Building	Each	1		8.013		8.013	
	Water Treatment Building Equipment	Each	1		28.300		28.300	
	One Water Treatment Building is provided at the Riverland Yards. It is a one-story building with concrete foundations, reinforced concrete floor and roof, concrete block walls, and built-up felt gravel surfaced roofing. A 25,000 gallon soft water, wooden storage tank elevated on 25' tower and a railroad standpipe with concrete valve pit are also provided.							
	Overall Dimensions	Volume	Area					
	14'-0" x 20' x 11'-8"	... cu.ft.	sq.ft.					
	Material	Quantity						
	Reinforcing Steel	1.05 tons						
	Reinforcing Mesh	290 sq.ft.						
	Concrete	65.5 cu.yds.						
	Concrete Blocks	715 blocks						
	Roofing	1.75 squares						
-707-E -6707-E	Change House	Each	1		30.712		30.712	
	Change House Equipment	Each	1		1.048		1.048	
	One Change House Building is provided at Riverland Yards. It is a rectangular, one-story, wood frame structure with concrete and concrete block foundations, concrete floor, except cinders in heating room lean-to, drop-siding over sheathing walls and built-up, gravel surfaced roof.							
	Overall Dimensions	Volume	Area					
	30'-6" x 72' x 16'	34.115 cu.ft.	2,095 sq.ft.					
	Material	Quantity						
	Framing	7,000 f.b.m.						
	Siding	4,000 f.b.m.						
	Sheathing	5,800 f.b.m.						
	Concrete	46.3 cu.yds.						
	Concrete Block	720 blocks						
	Freshwood	2,190 sq.ft.						
	Asbestos Board	100 sq.ft.						
	Roofing	12.04 squares						
b718-E -6718-E	Locomotive House	Each	1		98.771		98.771	
	Locomotive House Equipment	Each	1		23.769		23.769	
	One Locomotive House is provided in the Riverland Yards. This building has reinforced concrete foundations, floors, and pits under the tracks, drop-siding over sheathing walls, and built-up felt, gravel surfaced roofing. The center, higher portion is of post and girder construction for clearance and has 2" roof decking. Partitions and ceilings in offices and parts room are freshwood. Two overhead track doors are installed at each end.							

**PROJECT COST SUMMARY... MILITARY FUNDS**  
**...FINAL DETAIL COST STATEMENT...**

REPORTING OFFICE ... HANFORD ENGINEERS ... PROJECT DESCRIPTION ... PLUTONIUM PRODUCTION PLANT  
 MONTH ENDING ... JUNE 1946 ...

CODE NO.	DESCRIPTION	ACCOUNT	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
				ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
6718	Locomotive House (continued) 6718-A - A reinforced concrete cinder pit is provided near the Locomotive House.								
	Overall Dimensions 6718 41'-0" x 107'-1" x 22' 6718-A 17' x 18'-11" x 14'-8"	Volume 120,158 cu.ft. 4,883 cu.ft.	Area 8,380 sq.ft. 323 sq.ft.						
	Material	Quantity							
	Framing	6718 24,500 f.b.m. 6718-A 14,000 f.b.m.							
	Sheathing	6,000 f.b.m.							
	Siding	5 tons	3.5 tons						
	Rainforcing Steel	3,600 sq.ft.							
	Reinforcing Mesh	214.6 cu.yds.	51 cu.yds.						
	Concrete	46.16 squares							
	Roofing								
	Prison Camp								
	A Camp was provided for the housing of inmates and employees of the Federal Prison Industries engaged in maintaining Farm Lands. Included in this code are all charges against the buildings, materials, building equipment, tools and construction equipment. The following tabulation gives building information.								
	Dimensions	Area sq.ft. cu.ft.	Volume						
	Administrative Building	Wood frame, drop siding, sec- 30'x120'x10' tional construction, wood floor	3,600	36,000					
	Infirmary	Same 30'x120'x10'	3,600	36,000					
	Recreation Building	Same 30'x120'x13'	3,600	46,800					
	Barracks (5)	Same 20'x120'x10'	2,400	24,000					
	Barracks Huts (4)	Pacific Huts 16'x120'x9'	1,920	172,800					
	Tent Barracks (5)	Canvas, wood floors & walls 20'x20' 400							
	Mess Hall & Supply Room	Wood frame, drop siding, sec- 180'x120'x10' tional construction, H shaped (Overall) 3- 20x120 units, concrete floor in kitchen	7,200	72,000					
	Boiler House	Wood frame 10'x16'x10'	160	1,600					
	Pump House	Wood frame 10'x20'x9'	200	1,800					
	Elevated Storage Tanks(2)	Wood Stave on Wood Towers 1-6000 gals. & 1-1000 gals.							
	Garage & Storage Shed	Wood frame, drop siding, sectional, dirt floor 20'x50'x10'	1,800	18,000					
	Carpenter & Work Shop	Same, but wood floor 22'x 48'	1,056	9,120					
	Supervisor's Residences(12)	Sheet metal Butler Huts 27'x24'x8 1/2'	609	6,177					
	Supervisor's Residences(10)	Prefabricated Houses 3-section, 2-bedroom, plywood throughout, wood foundations.							
	Recreation Bldg. for Res. Pacific Hut	16'x40'	640	6,760					
	Sub-Total				28,299,867				
	OVERHEAD LINES:								
801	Pipe Supports					1	634,901	634,901	
	Pipe Supports are provided in the process areas to carry the overhead steam, air, and process lines. Type 1 Support is a single pole, having a wooden crossarm consisting of two pieces 3"x8"x6' and strap steel knee braces. Rod hangers threaded for adjustment are suspended from the crossarms. Type 2 Support is a double pole, having a wooden crossarm 3"x8"x8"-10" long. All poles were set in concrete 4' to 8' deep.								
	Pipe Supports	Length	Total						
	Area	18' 20' 25' 30' 35' 40' 45' 50' 55' 60' 65'	in Area						
	100-B	1 27 93 181 48 48 18 9 2 2	431						
	100-D	3 17 89 158 78 46 18 9 4 3	420						
	100-F	9 203 200 93 64 26 8 3	603						
	200-E	239 63 98 204 38 43 50 5 6 4	747						
	200-N	188 272 111 264 59 78 44 3	987						
	300	52 140 18	210						
	700	275 68 7	350						
	Total	395 386 844 1,421 108 347 189 32 14 8	7,745						
	Concrete 500 cu.yds.								
802	Steam lines				1,293,228	1	1,293,228	1,293,228	
	Outside overhead insulated Steam Lines are provided for distribution of steam to buildings and facilities. Steam Lines are of welded construction throughout with welded neck flanges for valves. Schedule 40 seamless steel pipe was used for pressures up to and including 100# lines. Schedule 80 for the 225# lines. Standard thickness 85% magnesium insulation and an asphalt felt jacket for weather proofing was provided. Pipe diameters 1 1/2" to 16" were used.								
	LENGTH OF STEAM LINES								
	Area	18" 14" 12" 10" 8" 6" 4" 3 2" 1 1/2"	Total						
	100-B	2,047 1,844 1,078 1,569 2,584 213 1,737	12,502						
	100-B	1,688 1,777 568 1,381 3,572 603 298 1,676	11,588						
	100-B	1,688 1,777 568 1,381 3,572 603 298 1,676	11,588						
	100-P	2,377 1,800 1,018 1,215 2,604 372 534 1,810 108	11,538						
	200-E	4,063 1,680 3,890 180 4,460 1,681 275 276	16,364						
	200-W	1,248 8,948 2,748 7,887 2,810 7,460 208 800	25,477						
	300	180 560 1,940 1,050 1,050 800	4,600						
	700	28 1,650 2,150 1,610 250 880 1,625	5,560						
	Total	8,117 8,221 8,920 18,182 18,848 14,446 11,898 250 18,914 3,214 775	94,775						



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**PROJECT COST SUMMARY - MILITARY FUNDS  
--FINAL DETAIL COST STATEMENT--**

REPORTING OFFICE ~~HANFORD ENGINEER PARKS~~ PROJECT DESCRIPTION ~~PLUTONIUM PRODUCTION PLANT~~  
MONTH ENDING ~~31 DECEMBER 1946~~

CODE NO	DESCRIPTION	ACCOUNT	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
				ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
803	Air Lines  Overhead non-insulated Air Lines are provided in the 100-I, 100-D, 100-F, 200-E, 200-W, 300 and 700 Areas for distribution of compressed air at 125 pounds per square inch. Air Lines are welded throughout, using schedule 40 steel pipe varying from 1 $\frac{1}{2}$ " to 3" in diameter and are carried on suspended red pipe hangers.		LS	1		36,526		36,526	
	<u>Length of Air Lines in Feet</u>								
	Area	3"	2 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	Total in Area				
	100-E	370			370				
	100-D	390			390				
	100-F	276			276				
	200-E	160	100	1,728	2,008				
	200-W	1,060	428	1,716	3,203				
	300	3,000	910	180	4,060				
	700	1,067	336		1,333				
	Totals	8,307	2,716	3,830	11,607				
806	Process Lines  Process Lines are provided in the 100-B, 100-D, 100-F, 200-E, and 200-W Areas. The Process Lines are welded construction throughout and are carried on Type 2 pipe supports. Pipes in the 200 Areas is stainless steel.		LS	1		187,944		187,944	
	<u>Lengths of Process Lines in Feet</u>								
	Area	4"	3"	2 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	1"	Total in Area		
	100-B	3,486	170	760	30		3,516		
	100-D	72	3,680	235	286	30	4,302		
	100-F		2,528	366	622	28	3,444		
	200-E	226	682	800			1,578		
	200-W	552	1,104	1,600	384		4,190		
	Totals	830	11,320	3,171	1,387	1,342	17,428		
	Sub-Total						2,162,495		
	<b>UNDERGROUND LINES:</b>								
801	Water Lines  Sanitary and Process Water Lines are provided in each 100, 200, 300, 600 and 700 Areas and the inter-area connecting lines for the 100 and 200 Areas. Three phases of work are included: (1) Elevated Water Storage Tanks, (2) Headers, Mains, and Distribution System within areas, (3) Inter-area supply or "Export water Line."  (1) Adjacent to each Power House is a Soft Water Storage Tank of wood stave construction supported on a four-legged steel tower. Foundation piers and valve pit are concrete. Capacities are 75,000 gals. in 100 areas, 50,000 gals. in 200 areas, and 25,000 gals. in 300 and 700 areas.  (2) In the 100 areas the water emanates from the river pump house in 32" and 42" steel pipes, passes into the reservoir, then through the filter plant and then to all buildings providing process, sanitary and fire protection water. 100-D and 100-F have a special 42", 2504 line direct from the river pump house to refrigeration building. The Reservoir Building in the 200 Areas receives the water from the "Export Line," then it passes to the filter building and then to all other buildings. Fire and sanitary water are in same lines. Raw water is delivered direct to some buildings in the areas. The 200 W Area buildings receive water from two wells in the R section, although a 6" tap off the export line is provided for emergency use. The 300 Area supply comes from two drilled wells within the area. All water regardless of final need is purified, and distribution is in form of an interconnected double loop system supplying all buildings. Both a sanitary and a soft water system are provided at the 600 Area Classification Yards, supplied from a drilled well. The 700 Area receives its water from the 1100 Area Village System.		LS	1		7,730,132		7,730,132	
	<u>Area Distribution Line</u>								
	Area Length								
	100-E 41,240 lin. ft.	1 $\frac{1}{2}$ " to 3" pipe is screwed, galvanized;							
	100-D 41,826	3" to 16" pipe is cast iron, bell and spigot;							
	100-F 41,838	16" to 42" pipe is butt welded, steel;							
	200-E 29,240	Operating pressures vary from 50# sanitary to 225# process service. Encasement, anchor blocks, and							
	200-W 39,745	kicker blocks are provided where necessary.							
	200-E 12,605								
	300 10,054								
	600 1,220								
	700 16,983								
	Total 233,747 lin. ft.								
	(3) The "Export Water System" is provided for supplying water to the 200 E and W Areas from the river pump houses in the three 100 Areas. The pipe is 24", 30", and 42" dia. reinforced concrete with a plate steel center, and the thirty feet lengths are coupled with rubber ring gaskets and poured cement grout. Manholes were installed every 1,500 feet; relief valves at high points; and blow offs, using 8" gate valves, at low points. Encasement was used under road crossings, and kicker blocks and pipe anchors installed at points of deflection.								
	The valve houses are provided, one at each "Y" intersection. Fincars, foundations, and roofs are reinforced concrete, and walls are concrete block. The wood frame, one-story, insulated valve houses are also provided. Foundations are concrete.								

**PROJECT COST SUMMARY... MILITARY FUNDS**  
**--FINAL DETAIL COST STATEMENT--**

REPORTING OFFICE ... SANFORD ENGINEER BUREAU ..... PROJECT DESCRIPTION PLANT NUMBER BRADDOCK PLANT  
 MONTH ENDING ... 31 DECEMBER 1945

CODE NO.	DESCRIPTION	ACCOUNT	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
				ACTUAL		ACTUAL		ACTUAL	
901	Water Lines (continued)								
	Section Length Size Pressure								
	A 22,480' 42" dia. 250#								
	B 16,380' 30" 200#								
	C 18,068' 24" 150#								
	D 29,638' 42" 250#								
	E 12,320' 24" 150#								
	F 26,138' 30" 250#								
	Total 119,878' or 22.7 miles								
	Valve House Dimensions Volume Area								
	Concrete Block 24'-10" x 26'-4" x 23'-0" 14,70 cu.ft. 625 sq.ft.								
	Concrete Block 17'-4" x 23'-0" x 22'-0" 9,130 404								
	Wood Frame 7'-10" x 11'-0" x 13'-0" 1,145 79								
	Wood Frame 11'-4" x 11'-0" x 13'-0" 1,720 125								
902	Fire Lines								
	The Fire Protection System provided in the areas is part of the Sanitary System and, therefore, only overhead tanks for fire protection reserve and hydrants and connections are included in this account. Wood stave tanks are supported on steel legs and concrete foundation piers.								
	Tanks were installed as follows:								
	Area No. Capacity Construction								
	100-E 100,000 gals. Wood								
	100-D 1 100,000 gals. Wood								
	100-F 1 100,000 gals. Wood								
	200-E 1 100,000 gals. Wood								
	1 60,000 gals. Wood								
	200-W 1 100,000 gals. Wood								
	2 60,000 gals. Wood								
	300 1 75,000 gals. Steel								
903	Sanitary Sewer Lines								
	Sanitary Sewer Systems are provided in all areas for the disposal of toilet wastes. In all areas these systems are connected to septic tanks, except the 700 Area which is connected to the Village system. These lines are both concrete and vitrified clay pipe with bell and spigot joints sealed with concrete mortar. brick manholes are constructed, and encasement used where necessary.								
	Material Quantities in Feet								
	Area 18" 8" 6" 4" Total								
	100-B,D,F 16,280 5,230 20 25,380								
	200-E,N,W 13,840 5,380 17,220								
	300 4,165 1,040 6,205								
	600 350 200 550								
	700 1,245 2,400 1,245 6,300								
	Total 1,245 37,915 14,785 200 53,745								
	Concrete 3,049 cu.yds.								
	33 Septic Tanks and Tile Fields were constructed in the 100,200,300, and 600 Areas for disposal of sanitary sewage. Two types of tank were installed. The standard type is rectangular shaped box having reinforced concrete walls and floor and removable 2" cross-tied wooden tops and baffles. The special type is larger having reinforced concrete floor walls, and top and wood baffles. Both types have 4" vitrified clay or concrete drain tile fields and both types are fenced.								
	Material Quantity (All Tanks)								
	Lumber (Fences & Rafters) 15,000 ft. b.m.								
	Reinforcing Steel 55 tons								
	Concrete 873 cu.yds.								
904	Process Sewer Lines								
	One or more Sewer Systems are provided in the 100, 200, 300 and 600 Areas to carry process wastes, process waste water, process cooling water, steam condensate, and building floor drainage. Lines are divided into two general classifications:								
	Non-acid Proof: Vitrified clay and concrete pipe with plain concrete joints are principally used. Concrete box type for larger lines and welded steel for steam condensate lines also are used.								
	Acid Proof: Vitrified clay pipe with acid proof joints is principally used. Earthenware, cast-iron, wrought-iron, 18-8 stainless steel, reinforced concrete pressure and steel discharge pipe are also used.								
	Material Quantity								
	Reinforced Concrete Box 4,380 ft.								
	Chemical Ware & V.C. Pipe 37,411								
	Reinforced Concrete Pipe "IS" 38,310								
	S/Steel Pipe 94,450								
	Sched. 40 Steel Pipe 14,370								
	Cast Iron 6,270								
	Wrought Iron Pipe 400								
	Concrete 32,380 cu.yds.								

**SECRET**  
**PROJECT COST SUMMARY ... MILITARY FUNDS**  
**-FINAL DETAIL COST STATEMENT...**

REPORTING OFFICE RAYFORD ENGINEER WORKS PROJECT DESCRIPTION PLUTONIUM PRODUCTION PLANT  
MONTH ENDING 31 DECEMBER 1948

CODE NO.	ACCOUNT DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS																																																										
			ACTUAL		ACTUAL		ACTUAL																																																										
906	<p>Wells and Pumps</p> <p>Five Wells are provided where no other supply is practically available. Pumps and Pump Houses are also provided. To get five producing wells, it was necessary to make nine drillings. Concrete and concrete block houses with reinforced concrete floor, floor tremie, and roof are erected atop the two wells in 200-E Area Wells, while other wells are housed in adjacent buildings.</p> <p>A tabulation of the wells is as follows:</p> <table> <thead> <tr> <th>Location</th> <th>No.</th> <th>Depth</th> <th>Production</th> </tr> </thead> <tbody> <tr> <td>Haverland Classification Yards</td> <td>1</td> <td>111'</td> <td>Dry</td> </tr> <tr> <td></td> <td>2</td> <td>128.5</td> <td>540 G.P.M.</td> </tr> <tr> <td></td> <td>1</td> <td>233'</td> <td>588 G.P.M.</td> </tr> <tr> <td>200-E Area</td> <td>2</td> <td>136'</td> <td>Crooked hole-abandoned</td> </tr> <tr> <td></td> <td>3</td> <td>146'</td> <td>Basalt-abandoned</td> </tr> <tr> <td></td> <td>4</td> <td>198'</td> <td>Basalt-abandoned</td> </tr> <tr> <td></td> <td>5</td> <td>208'</td> <td>1280 G.P.M.</td> </tr> <tr> <td>300 Area</td> <td>1</td> <td>86'</td> <td>280 G.P.M.</td> </tr> <tr> <td></td> <td>2</td> <td>86'</td> <td>540 G.P.M.</td> </tr> </tbody> </table> <p>Pump House</p> <table> <thead> <tr> <th>Overall Dimensions</th> <th>Volume</th> <th>Area</th> </tr> </thead> <tbody> <tr> <td>12'-0" x 15'-0" x 17'</td> <td>3,178 cu.ft.</td> <td>187 sq.ft.</td> </tr> </tbody> </table> <p>Material in Pump House</p> <table> <thead> <tr> <th>Reinforcing Steel</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td></td> <td>1.3 tons</td> </tr> <tr> <td>Concrete</td> <td>17 cu.yds.</td> </tr> <tr> <td>Concrete Block</td> <td>700 blocks</td> </tr> <tr> <td>Roofing</td> <td>2.18 squares</td> </tr> </tbody> </table> <p>Sub-Total</p>	Location	No.	Depth	Production	Haverland Classification Yards	1	111'	Dry		2	128.5	540 G.P.M.		1	233'	588 G.P.M.	200-E Area	2	136'	Crooked hole-abandoned		3	146'	Basalt-abandoned		4	198'	Basalt-abandoned		5	208'	1280 G.P.M.	300 Area	1	86'	280 G.P.M.		2	86'	540 G.P.M.	Overall Dimensions	Volume	Area	12'-0" x 15'-0" x 17'	3,178 cu.ft.	187 sq.ft.	Reinforcing Steel	Quantity		1.3 tons	Concrete	17 cu.yds.	Concrete Block	700 blocks	Roofing	2.18 squares		LS	1	120,250		120,250		
Location	No.	Depth	Production																																																														
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	SITE WORK:																																																																
58	<p>Site Work</p> <p>The Site Work accomplished included clearing sage brush, rocks, and other obstruction prior to construction in all 100, 200, 300, 600, 700 and 1100 Areas; grading of fire protection lanes throughout the entire area; and drilling test holes for soil and water data.</p> <p>GRADING:</p>		LS	1	1,681,011		1,681,011																																																										
68	<p>Grading</p> <p>Grading work performed in all 100, 200, 300, 600 and 700 Areas is included in this account. Very little heavy grading was required but entire working areas were stabilized at the start of construction because of the light and sandy topsoil. Materials were obtained principally from building excavations and the balances from borrow pits. After construction work was completed the areas were "dressed up".</p>		LS	1	588,055		588,055																																																										
	TOTAL GENERAL OUTSIDE FACILITIES				49,345,842																																																												

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**PROJECT COST SUMMARY... MILITARY FUNDS  
 ...FINAL DETAIL COST STATEMENT...**

REPORTING OFFICE MARSHAL ENGINEER WORKS PROJECT DESCRIPTION PLUTONIUM PRODUCTION PLANT  
 MONTH ENDING JULY 1945

CODE NO.	DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS			
			ACTUAL		ACTUAL		ACTUAL			
<b>MAIN PLANT (continued):</b>										
<b>PLANT BUILDINGS AND EQUIPMENT:</b>										
100 AREA BUILDINGS AND EQUIPMENT:										
100 AREA MANUFACTURING BUILDING AND EQUIPMENT:										
103-B	Fresh Metal Storage A Fresh Metal Storage building is provided in each of the three 100 Areas. The buildings are identical one-story structures. Construction of footings, foundation walls, floor, roof and loading platform is reinforced concrete. Walls are concrete block and roof surface is tar and gravel. Building is windowless and doors are metal covered.	Each	3		55,554		18,518			
	Overall Dimensions <u>54' x 27' x 17'</u>	Volume		Area						
		1,566 cu.ft.		24,622 sq.ft.						
	Material	Quantity								
	Framing	377 cu.ft.								
	5" Concrete Flooring	1,250 sq.ft.								
	Reinforcing Steel Bars	9 tons								
	Reinforcing Steel Mesh	2,128 sq.ft.								
	Concrete	107 cu.yds.								
	Roofing Squared	14.4 squares								
	Concrete Block	912 blocks								
106-S	Pile Building Pile Building Equipment	Each	3		8,315,575		2,771,892			
106-E	A There is one Pile Building provided in each of the three 100 Areas. It is a concrete and concrete block structure with a portion of it being steel frame. Two interior walls are massive concrete, being 2' and 3' thick. The main portion of the building houses the Process Unit of Pile and provides a working area in front of the Pile. The building also contains Storage Pit and Transfer Area, a Fan House and a number of Instrument and Control Rooms. The Pile is a cube-like structure approximately 41'x46' x 38' high consisting of an interior cube of graphite approximately 34' x 36' x 36' surrounded on top and sides by laminated walls of steel and maccrete, the entire structure being supported on concrete approximately 28' thick. Between the graphite and concrete foundation and between the graphite and laminated walls of the Pile is a cast-iron thermal shield 10" thick on bottom, top, front, and back, and 8" thick on right and left sides. A steel membrane was placed in the foundation and tied to the laminated steel walls to make the entire pile gas tight. Through the Pile is a large number of holes containing aluminum tubes. Also there are installed water headers, gas headers, instrument tubing and control rods. There are many reasons for the tremendous number of manhours required in the construction of this building. Because of the new and classified nature of the process, techniques were developed at the site. The graphite blocks were machined to very close tolerances and were placed with care and precision. The laminated steel and maccrete portions were received both as prefabricated blocks and individual sheets to be fabricated at the site. This fabrication and assembly were also accomplished with considerable care. The welding of the joints to gas tight specifications required welders of the highest grade, and to obtain them it was necessary to establish a training school and pay premium wage rates. Access to the building was restricted to authorized employees throughout most of the construction period.	Each	3		37,466,040		12,486,347			
	Overall Dimensions <u>120' x 180' x 120'</u>	Volume		Area						
		1,000,000 cu.ft.		24,000 sq.ft.						
	Material	Quantity								
	Structural Steel	380 tons								
	Reinforced Concrete	17,400 cu.yds.								
	Concrete Blocks	60,000 blocks								
	Concrete Bricks	71,000 bricks								
	Roofing	260 squares								
107-B	Retention Basin Retention Basin Equipment	Each	3		1,397,179		466,726			
107-E	A Retention Basin for waste water is provided in each of the three 100-Areas. Identical in size, shape and design, these buildings have reinforced concrete retaining walls, increasing in thickness from 1.0 foot at top to 8.0 feet at bottom, and 6" thick floor. Interior sides are lined with 6" thick gunite. A reinforced concrete overflow flume runs along the center line of basin, and concrete blockwall parallel to intake wall form the intake channel. At discharge end of basin are located a pump house of frame construction on concrete floor and a laboratory of frame construction. Basin is divided by 6 sprue baffle fences.	Each	3		110,555		36,882			
	Overall Dimensions <u>498' x 260' x 20'</u>	Volume		Area						
		1,183,500 cu.ft.		118,100 sq.ft.						

**PROJECT COST SUMMARY... MILITARY FUNDS**  
**...FINAL DETAIL COST STATEMENT...**

REPORTING OFFICE.....PROJECT DESCRIPTION.....  
 PLUTONIUM PRODUCTION PLANT  
 MONTH ENDING.....  
 31 DECEMBER 1946

CODE NO.	DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
			ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
107	Retention Basin (continued)							
	Materials	Quantity						
	Framing	1,600 f.b.m.						
	Heavy Timber	21,000 f.b.m.						
	Siding	572 sq.ft.						
	Sheathing	1,232 sq.ft.						
	Reinforcing Steel Bars	117 tons						
	Reinforcing Steel Mesh	64,000 sq.ft.						
	Concrete	6,111 cu.yds.						
	Roofing	6.6 squares						
	Concrete Blocks	18,000 blocks						
108-B	Chemical Pump House							
108-E	Chemical Pump House Equipment							
	A Chemical Pump House is provided in each of the three 100-Areas. These 3-story buildings are identical and are constructed with reinforced concrete and structural steel frame work with reinforced concrete floors, foundations and footings. Roof is precast concrete roof tile surfaced with tar and gravel. Wall and room partitions are concrete block. A covered car spot, and two horizontal and two vertical tanks are located without the building.	Each	3		743,848		247,948	
	Building	Overall Dimensions	Volume	Area				
	Loading Platform and ,	150' x 32' x 88'	232,400 cu.ft.	4,816 sq.ft.				
	Car Spot	37' x 31 1/2' x 30'	34,380 cu.ft.	1,168 sq.ft.				
	Materials	Quantity						
	Structural Steel	47 tons						
	Reinforcing Steel Bars	59 tons						
	Reinforcing Steel Mesh	6,000 sq.ft.						
	Concrete	337 cu.yds.						
	Concrete Blocks	18,138 blocks						
110	Gas Storage Tanks							
	Gas Storage Tanks are provided in each of the three 100-Areas. Similar in design, the two low pressure and 33 nested high pressure tanks are supported on concrete foundation piers. A wooden walkway and a wooden unloading platform are supported on small concrete piers.	Each	3		215,186		71,728	
	Materials	Quantity						
	Concrete	54.4 cu.yds.						
111-B	Test Building							
111-E	Test Building Equipment							
	The Test Building is located in the 100-B Area only. It is a wood frame structure in the shape of a lower case "h" resting on concrete wall foundations. In the upper portion of "h" the floor is cinders; the balance is concrete.	Each	1		21,074		21,074	
	Overall Dimensions	Volume	Area					
	80' x 61' x 148'	35,755 cu.ft.	2,081 sq.ft.					
	Materials	Quantity						
	Framing	8,782 f.b.m.						
	Siding	3,848 sq.ft.						
	4" Concrete Flooring	800 sq.ft.						
	Sheathing	5,329 sq.ft.						
	Reinforcing Steel Bars	0.2 tons						
	Reinforcing Steel Mesh	800 sq.ft.						
	Concrete	72 cu.yds.						
	Roofing (Built-up)	21 squares						
118-B	Purification Building							
118-E	Purification Building Equipment							
	A Purification Building is provided in each of the three 100-Areas. These one-story buildings are constructed of reinforced concrete and concrete block walls supported on reinforced concrete piers and footings. The roof is reinforced concrete over one portion and precast reinforced concrete tiles over the balance. Both portions are surfaced with tar and gravel. Floor and interior walls are massive reinforced concrete. An underground pipe race and underground pipe tunnel connecting to an adjacent building are both of reinforced concrete. Outside instrument cubicles have heavy steel doors with trolley beams and hoists.	Each	3		1,459,760		499,929	
	Overall Dimensions	Volume	Area					
	160' x 98' x 33 1/2'	457,800 cu.ft.	14,810 sq.ft.					
	Materials	Quantity						
	Structural Steel	20.8 tons						
	Reinforcing Steel Bars	250 tons						
	Reinforcing Steel Mesh	11,000 sq.ft.						
	Concrete	8,000 cu.yds.						
	Roofing (Built-up)	148.1 squares						
	Concrete Blocks	31,000 blocks						
	Blanket Insulation	2,081 sq.ft.						

**SECRET**  
**PROJECT COST SUMMARY -- MILITARY FUNDS**  
**--FINAL DETAIL COST STATEMENT--**

REPORTING OFFICE HANFORD ENGINEER WORKS PROJECT DESCRIPTION PLUTONIUM PRODUCTION PLANT  
 MONTH ENDING 31 DECEMBER 1946

CODE NO.	DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
			ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
116	<b>Stack</b> One Ventilation Exhaust Stack is located in each of the three 100-Areas. Each Stack is of reinforced concrete set on a reinforced concrete rectangular base. The outside diameter of Stack varies from 16'-7" at the bottom to 9'-6" at the top. The Stack is 200' high and the foundation extends 17'-6" below the bottom of the Stack.	Each	3		66,712		21,004	
	Material Concrete	Quantity cu.yds.	598					
148-B	Water Treatment Building	Each	1		126,819		126,819	
148-E	Water Treatment Building Equipment	Each	1		387,179		387,179	
148-OP	Water Treatment Building	Each	1		679,871		679,871	
	One Water Treatment Building was constructed in the 100 Area. It is rectangular-shaped wooden-frame structure, having deep concrete foundations, concrete floor, barn siding, and roll roofing. Interior is open studding except pressed-wood lined in office and laboratory rooms.							
	Overall Dimensions Water Treatment Bldg. 140' x 48' x 17' Water Softening Bldg., Tank Tower Empl. & Lab. Ext.	Volume cu.ft.	116,000	Area sq.ft.	6,720			
		35,000 cu.ft.						
161-B	Primary Substation	Each	3		216,332		71,777	
161-E	Primary Substation Equipment	Each	3		2,922,914		974,303	
	One Primary Substation is provided in each of the three 100 Areas. This station is composed of a wood fenced, gravel surfaced, area, 450' x 305' containing two wooden frame bus structures, two main transformers, and a switch house. The Switch House is a one-story reinforced concrete and concrete block structure having a sub-level cablepit. Roof is tar and gravel surfaced concrete tile supported on structural steel framing which rests on concrete brick pillars. A railroad spur directly serves the building. Outside equipment is supported on reinforced concrete foundations.							
	Overall Dimensions Switch House 53' x 304' x 286'	Volume cu.ft.	64,600	Area sq.ft.	2,632			
	Material Fence Lumber Structural Steel Reinforcing Steel Bars Reinforcing Steel Mesh Roofing Concrete Blocks Concrete	Quantity t.b.m. tons tons sq.ft. square blocks cu.yds.	13,000 6.8 23 1,600 244.9 2,848 1,536					
162	Secondary Substation	Each	33		682,818		20,691	
	A total of 33 Secondary Substations have been provided in the three 100 Areas - 10 in 100-B, 12 in 100-D, and 11 in 100-F. These Substations are very similar in design and construction, differing in the number and size of the transformers in each. The 162 Substations all have a primary voltage of 13.8 KV and a secondary voltage ranging from 110 V to 2300 V.							
	These Substations are open wooden pole structures surrounded by a picket fence. The transformers are located at, or near, ground level and are set on individual concrete pads.							
	The KVA capacity of the 33 transformers making up the 33 Substations vary from 3 to 4,000 per transformer.							
163	Distribution Substations	Each	20		47,005		2,350	
	A total of 20 Distribution Substations have been provided in the three 100 Areas - 8 in 100-B, 6 in 100-D and 6 in 100-F. These Substations are very similar in design and construction, differing in the number and size of transformers in each. The No. 163 Substations all have a primary voltage of 2.4 KV and a secondary voltage ranging from 110 V to 480 V.							
	The Substations are with one exception, open wooden pole structures surrounded by picket fences. The transformers are located at, or near, ground level and are set on concrete pads. In the one exception transformers are placed on an elevated wood platform between two poles.							
161-B	River Pump House	Each	3		3,328,691		1,109,530	
161-E	River Pump House Equipment	Each	3		1,743,945		581,316	
	One River Pump House is provided in each of the three 100 Areas. These buildings are similar in design but those in D and F are larger and house a greater number of pumping units. Construction is reinforced concrete with some concrete block. Roof is tar and gravel surfaced. Structural steel is used for support of equipment and platforms. There are two pump wells in the B and three wells in the D and F buildings. In the entrance flume of each well is installed a bar steel rack and a traveling fish screen. Vertical type pumps located near the bottom of the wells are operated by electric motors and steam turbines located on the operating floor. Hoists are provided on the roof to provide for removal through the roof of pump shafts and screens. Pump capacity as follows has been installed or space is provided.							
	Electric Driven Installed Steam Driven Installed Provisional	161-B 70,000 G.P.M. 22,500 17,500	161-D 130,000 G.P.M. 22,500 7,500	161-F 110,000 G.P.M. 22,500 27,500				

**PROJECT COST SUMMARY - MILITARY FUNDS**  
**-FINAL DETAIL COST STATEMENT-**

REPORTING OFFICE HANFORD ENGINEER WORKS PROJECT DESCRIPTION PLUTONIUM PRODUCTION PLANT  
 MONTH ENDING 31 DECEMBER 1946

CODE NO.	DESCRIPTION	ACCOUNT	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
				ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
181	River Pump House (continued)								
	Intake channels from the main river channel were excavated as follows:								
	Building      Width      Length								
	181-B      70ft.      1,000 ft.								
	181-D      90      1,660								
	181-F      30      210								
	Blgds.	Overall Dimensions	Volume	Area					
	181-B	130'x4'x80'	41,330 cu.ft.	2,100 sq.ft.					
	1-1-D	170'x64'x8'	572,000	8,360					
	1-1-F	170'x64'x88'	606,000	8,360					
	Material	Quantity							
	Structural Steel-tons	181-B      1-1-D	35	31					
	Reinforcing Steel-tons		2.3	2.3					
	Concrete - cu.yds.		3,456	4,350	4,680				
	Concrete Blocks-No.		6,356	7,730	7,730				
	Roofing - squares		47	51	51				
182-B	Reservoir and Pump House								
182-E	Reservoir and Pump House Equipment								
	The Reservoir and Pump House Building is provided in each of the three 100 Areas. Buildings are similar but differ in details. Each consists of a reinforced concrete and concrete block pump house located along one side of a reinforced concrete reservoir. The reservoir, divided into two sections, has walls and floor of reinforced concrete and sloping sides of reinforced gunite.								
	Overall Dimensions	Volume	Area						
	Reserve Reservoir	432'x30'x18'	18,000,000 gals.	185,458 sq.ft.					
	Working Reservoir	432'x20'x18'	10,000,000 gals.	0,288 sq.ft.					
	Pump House	374'x12'x22'	41,750 cu.ft.	18,613 sq.ft.					
	Material	Quantity							
	Structural Steel	90 tons							
	Reinforcing Steel tons	350 tons							
	Reinforcing Steel Kms	253,564 sq.ft.							
	Concrete	17,546 cu.yds.							
	Concrete Blocks	3,624 blocks							
	Roofing	194 squares							
183-B	Filter building								
183-E	Filter building Equipment								
	A Filter Building is provided in each of the three 100 areas. These buildings are similar but not identical. This building consists of four structures: The Head House and Chemical Building, the Flocculation and Subsidence basins, the Filter Building Filter, and the Clear Water Reservoir and Pump Room.								
	The Head House and Chemical Building is a three-story, steel frame, reinforced concrete, and concrete block enclosed structure.								
	The Flocculation and Subsidence basins are a number of open reinforced concrete chambers with concrete distribution flumes, acid taffles and steel stirrers.								
	The Filter Building, consisting of twelve two-section filter beds, is constructed of concrete and some concrete block.								
	The Clear Water Reservoir and Pump Room is constructed of reinforced concrete floors, walls and roofs.								
	Overall Dimensions	Volume	Area						
	Head House & Chemical Fl.	133'x21'x52'	213,200 cu.ft.	213,200 sq.ft.					
	Flocculation Basins	68'x30'x10'	660,000 gals.	19,620 sq.ft.					
	Subsidence Basins	680'x100'x20'	6,000,000 gals.	45,200 sq.ft.					
	Filter Bldg. (Overall)	64'x40'x40'	1,036,800 cu.ft.	26,920 sq.ft.					
	Pump Room & Elect. Room	130'x35'x34'	117,900 cu.ft.	4,350 sq.ft.					
	Clear Water Reservoirs								
	B & D Areas - Two	712'x130'x22'	10,000,000 gals.	92,560 sq.ft.					
	Clear Water Reservoirs								
	F Area - Two	712'x150'x168'	9,000,000 gals.	106,800 sq.ft.					
	Material	Quantity							
	Structural Steel	163 tons							
	Reinforcing Steel Bars	1,030 tons							
	Reinforcing Steel Kms	11,400 sq.ft.							
	Concrete	33,312 cu.yds.							
	Concrete Blocks	20,500 blocks							
184-E	Power House								
184-E	Power House Equipment								
	A Power House is provided in each of the three 100 areas, identical throughout. The main Power House is a three-story, steel frame, windless building with reinforced concrete foundation, concrete block superstructure, and precast concrete roof surfaced with felt, tar and gravel. The two stacks, three hundred feet high, 23 feet in diameter at base tapering to 12 feet at top, are of reinforced concrete. The Coal Storage Area is enclosed by an earth dike and reinforced concrete wall. The Crusher House is three-stories, with reinforced concrete base, structural steel frame, transite walls and roof. Conveyor system housing and two transfer houses have transite walls and roof on steel frame supported on steel piers and concrete foundations. Track hoppers are reinforced concrete.								
	Dimensions	Volume	Area						
	Power House (Overall)	212'x78'x80'	882,700 cu.ft.	15,986 sq.ft.					
	Stacks (2)	25' dia. x 300'	144,200 cu.ft.	832 sq.ft.					

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**PROJECT COST SUMMARY ... MILITARY FUNDS**  
**--FINAL DETAIL COST STATEMENT--**

REPORTING OFFICE ..... HANFORD ENGINEER WORKS ..... PROJECT DESCRIPTION PLUTONIUM PRODUCTION PLANT  
 MONTH ENDING ..... 31 DECEMBER 1946 .....

CODE NO.	DESCRIPTION	ACCOUNT	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
				ACTUAL		ACTUAL		ACTUAL	
186	Power House (continued)								
	Coal Conveyor System	Dimensions 500' long 500' x 260' x 15'	Volume 136,200 cu.ft. 1,950,000 cu.ft.	Area 8,800 sq.ft. 130,000 sq.ft.					
	Coal Storage Pit	Material Structural Steel Reinforcing Steel Bars Concrete Concrete Blocks-8"x8"x16" Transite Siding Concrete Bricks	Quantity 528 tons 118 tons 32,096 cu.yds. 25,000 blocks 16,800 sq.ft. 20,000 bricks						
186-B	Désorption Plant								
186-E	Désorption Plant Equipment	A Désorption Plant is provided in each of the three 100 Areas. Buildings are identical in size and very similar in design except for rubber lined pipe in D and a refrigeration plant in both D & F. The building consists of reinforced concrete foundation, pipe tunnel, end acid trench, structural steel frame, concrete block walls and precast concrete block roof with built up surfacing. One wall is common to the 186 building in all areas. The other wall is common to the 189 building in the D and 180 building in all areas. Ten Désorption Units are mounted on steel frames rising above the roof.	Each Each	3 3	1,331,831 4,601,227			810,610 1,863,742	
186-E	Demineralizing Plant								
186-E	Demineralizing Plant Equipment	A Demineralizing Plant is located in the 100-D Area only. One portion of this building is a two-story structure having reinforced concrete foundations and floor slab, steel framing, concrete block superstructure, and built up roofing on precast concrete blocks. The second portion, clearwell reservoir, mostly below ground level, consists of reinforced concrete floor, walls, and arched roof covered with tar and gravel. Lesser portions of this building are six horizontal steel tanks, two gunite concrete tanks, one gunite silo, two precast concrete silos, one acid-proof brick reservoir.	Each Each	1 1	1,776,664 4,962,786			1,776,666 4,962,786	
186-E	Building (Overall)	Dimensions 870' x 120' x 87'	Volume 2,919,480 cu.ft.	Area 87,474 sq.ft.					
	Material	Quantity							
	Structural Steel	1,030 tons							
	Reinforcing Steel Bars	482 tons							
	Reinforcing Steel Mesh	84,000 sq.ft.							
	Concrete	10,814 cu.yds.							
	Concrete Blocks	93,000 blocks							
	Roofing	789 squares							
	Acid Proof Tile	86,000 bricks							
187	Elevated Process Water Storage Tanks								
	Two Elevated Process Water Storage Tanks are provided in each 100 Area. The tanks, 120 feet above ground level, are ellipsoidal, 8" to 3/8" steel plate, supported on steel columns resting on reinforced concrete foundations. The steel plate stand pipe stands on a reinforced concrete valve pit.	Each	6		410,463			88,411	
	Tank	Dimensions 41' dia. x 39' high	Capacity 300,000 galn.						
	Material (1 tank)	Quantity							
	Structural Steel	400 tons							
	Steel Reinforcing Bars	5.4 tons							
	Concrete	211 cu.yds.							
188	Ash Disposal Basins								
	An Ash Disposal Basin is provided in each 100-Area. Basins are excavated pits and earth dikes. No other material used.	Each	3		62,761			20,930	
	Dimensions	Volume	Area						
188-B	320' x 340' x 11'-8"	1,018,700 cu.ft.	108,800 sq.ft.						
188-D	280' x 280' x 13'-8"	1,003,100 cu.ft.	78,400 sq.ft.						
188-F	(Irregular)-(Construction Borrow Pit)								
189-B	Refrigeration Building								
189-E	Refrigeration Building Equipment	A Refrigeration Building is provided in the D and F Areas only. The buildings are similar except the D Area building is approximately 50 percent larger. The construction consists of reinforced concrete foundations, steel framing, concrete block walls, and a precast concrete slab roof covered with a built-up roof of tar and gravel. Beneath this building are two concrete pipe trenches and one reinforced concrete tank pit. One side wall is common to the 186 building.	Each Each	2 2	568,558 2,224,473			279,278 1,112,236	

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**PROJECT COST SUMMARY - MILITARY FUNDS**  
**-FINAL DETAIL COST STATEMENT-**

REPORTING OFFICE LEEDS ENGINEER FORCES PROJECT DESCRIPTION PLUTONIUM PRODUCTION PLANT  
 MONTH ENDING 31 DECEMBER 1946

CODE NO	DESCRIPTION	ACCOUNT	UNIT OF MEASURE	QUANTITIES		TOTAL C. S. S.		UNIT COSTS	
				ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
189	Refrigeration Building (continued)								
		Dimensions 189-B Bldg. (Overall) 307' x 76' x 63' 189-F Bldg. (Overall) 229' x 76' x 58'	Volume 723,360 cu.ft. 662,360 cu.ft.	Area 20,181 sq.ft. 18,891 sq.ft.					
		Material Structural Steel Reinforcing Steel Bars Reinforcing Steel Mesh Concrete Concrete Blocks Roofing	14.5 tons 151 tons 52 tons 13,000 sq.ft. 1.48 cu.yds. 41,300 blocks 192 squares	Quantity 189-F 151 tons 35 tons 18,000 sq.ft. 1,610 cu.yds. 34,500 blocks 150 squares					
190-E	Process Pump House Process Pump House Equipment			Each	3	4,253,611		1,417,857	
190-E		A Process Pump House is provided in each of the three 100-Areas. The sida is common with the 188 building. The building consists of a large tank room, a process pump room, a re-use pump room, a number of small rooms, two pipe tunnels, and a re-use water reservoir. The structure is one-story and has a reinforced concrete foundation, steel frame, concrete block superstructure, and a concrete precast roof with built-up roofing.		Each	3	8,164,698		2,721,833	
		Dimensions Process Pump House (Overall) 456' x 184' x 87' Pipe Tunnels (2) 308' x 12' x 10' Re-use Water Reservoir 47' x 34' x 16'	Volume 4,473,760 cu.ft. 73,200 cu.ft. 23,970 cu.ft.	Area 170,610 sq.ft. 7,320 sq.ft. 1,600 sq.ft.					
		Material Structural Steel Reinforcing Steel Bars Reinforcing Steel Mesh Concrete Concrete Blocks	647 tons 33 tons 3,360 sq.ft. 7,756 cu.yds. 127,000 blocks	Quantity 647 tons					
		Sub-Total				118,661,222			
		100 AREA ADMINISTRATIVE BUILDINGS AND EQUIPMENT:							
1701-E	Gate House			Each	3	56,075		21,692	
1701-E	Gate House Equipment			Each	3	23,331		7,777	
1701-E		One Gate House is provided in each of the three 100 Areas. The buildings are identical two-story frame structures resting on concrete foundations and reinforced concrete first floor. Second floor, walls and partitions are lined and ceiling is insulated. Exterior walls are drop-siding and roof is tar and gravel surfaced.							
		Overall Dimensions 41' x 23' x 23'	Volume 15,300 cu.ft.	Area 744 sq.ft.					
1704-E	Supervisors' Office and Laboratory			Each	3	26,984		69,998	
1704-E	Supervisors' Office and Laboratory Equipment			Each	3	76,371		26,124	
1704-E		One Supervisors' Office and Laboratory building is provided in each of the three 100 Areas. This frame, one-story, T-shaped building has concrete and concrete block foundation and wood floor, walls, partitions and roof covered with built-up asphalt felt. In one front corner is located a laboratory with reinforced concrete floor and concrete walls and ceiling 2" thick.							
		Overall Dimensions 147 1/2' x 118' x 26'	Volume 216,000 cu.ft.	Area 8,120 sq.ft.					
		Material Framing Siding Sheathing Flooring Concrete Concrete Block Roofing Blanket Insulation Framewood Asbestos Board Gypsum Board	13,364 f.b.m. 7,440 sq.ft. 16,440 sq.ft. 7,700 sq.ft. 176 cu.yds. 2,800 blocks 94 squares 380 sq.ft. 8,350 sq.ft. 7,370 sq.ft. 7,670 sq.ft.	Quantity 13,364 f.b.m. 7,440 sq.ft. 16,440 sq.ft. 7,700 sq.ft. 176 cu.yds. 2,800 blocks 94 squares 380 sq.ft. 8,350 sq.ft. 7,370 sq.ft. 7,670 sq.ft.					
1706-E	Test Laboratory			Each	1	17,277		17,277	
1706-E	Test Laboratory Equipment			Each	1	11,081		11,081	
1706-E		One Test Laboratory is provided, located in the 100-F Area. It consists of two Pacific Huts joined together at the ends, and mounted on a concrete floor. A small frame overhead tank tower and a small frame pump house complete the unit.							
		Dimensions 20' x 80' x 12'	Volume 15,800 cu.ft.	Area 1,600 sq.ft.					
1707-E	Change House			Each	6	17,462		25,910	
1707-E	Change House Equipment			Each	6	16,118		2,686	
1707-E		Two Change Houses are located in each of the 100 Areas. These rectangular, one-story, frame buildings are supported on concrete and concrete block foundations and have a reinforced concrete floor. Walls and partitions are lined, but no ceilings are provided.							

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**PROJECT COST SUMMARY -- MILITARY FUNDS**  
**--FINAL DETAIL COST STATEMENT--**

REPORTING OFFICE HANFORD ENGINEER WORKS PROJECT DESCRIPTION PLUTONIUM PRODUCTION PLANT  
 MONTH ENDING 31 DECEMBER 1946

CODE NO.	DESCRIPTION	ACCOUNT	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
				ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
1707	Change House (continued)								
	Overall Dimensions 66' x 30' x 16'	Volume 31,920 cu.ft.	Area 1,978 sq.ft.						
	Material	Quantity/one Change House							
	Framing	2,234 f.b.m.							
	Siding	1,880 sq.ft.							
	Sheathing	6,000 sq.ft.							
	Concrete	37 cu.yds.							
	Concrete Blocks	643 blocks							
	Roofing	22 squares							
	Predwood	2,877 sq.ft.							
	Gypsum Board	276 sq.ft.							
	Asbestos Board	4,578 sq.ft.							
	Concreta Floor (4")	2,000 sq.ft.							
1709-B	Fire Headquarters								
1709-E	Fire Headquarters Equipment								
	One Fire Headquarters building is provided in each of the three 100 Areas. The buildings consist of a permanently constructed Truck Storage building and an addition of temporary design to furnish living quarters for the firemen. Buildings are identical.								
	The Truck Storage building is a one-story, frame structure, with a 30' hose drying tower, supported on a concrete foundation and reinforced concrete floor.								
	Living Quarters building is a rectangular, one-story, frame structure with gypsum board exterior and asbestos interior walls and ceiling, and roll roofing on a wood roof. A wood floor is supported on timber posts.								
	Overall Dimensions 47' x 36' x 34' 70' x 28' x 16'	Volume 28,300 cu.ft. 23,800 cu.ft.	Area 1,810 sq.ft. 1,780 sq.ft.						
	Material	Quantity							
	Framing	14,876 f.b.m.							
	Siding	3,668 sq.ft.							
	Sheathing	6,777 sq.ft.							
	Wood Flooring	2,310 sq.ft.							
	Concrete Flooring	1,850 sq.ft.							
	Reinforcing Steel Mesh	2,040 sq.ft.							
	Concrete	47.3 cu.yds.							
	Roofing	42.5 squares							
	Blanket Insulation	4,360 sq.ft.							
	Gypsum Board	1,850 sq.ft.							
	Asbestos Board	3,653 sq.ft.							
	Ceilings	2,763 sq.ft.							
	Linoleum	286 sq.ft.							
1713-B	Store Rooms								
1713-E	Store Rooms Equipment								
	One Storeroom building is provided in each of the three 100 Areas. These rectangular, one-story, frame buildings are identical, having concrete and concrete block foundations, reinforced concrete floors, drop-siding walls, and tar and gravel roof surfacing. Interior is unfinished except office and wash rooms.								
	1713-A - One Essential Material Storhouse is provided in each of the three 100 Areas. These former TC buildings are one-story post and girder structures having wood posts on wood mats, wood floors, gypsum board walls, and rolled roofing.								
	1713-B - This building in the 100-B Area is similar in construction to 1713-A buildings.								
	Overall Dimensions 77' x 64' x 16' 130' x 176' x 12' 80' x 208' x 13' 104' x 80' x 14' 104' x 36' x 10'	Volume 68,600 cu.ft. 211,200 cu.ft. 216,320 cu.ft. 116,480 cu.ft. 37,440 cu.ft.	Area 4,158 sq.ft. 17,800 sq.ft. 16,540 sq.ft. 8,320 sq.ft. 3,744 sq.ft.						
	Material	Quantity							
	Framing	10,723 f.b.m.							
	Siding	3,144 sq.ft.							
	Sheathing	7,344 sq.ft.							
	Concrete Flooring (4")	4,160 sq.ft.							
	Concrete	61.6 cu.yds.							
	Concrete Blocks	873 blocks							
	Roofing	42 squares							
	Ceilings	168 sq.ft.							
	Asbestos Insulation	1,744 sq.ft.							
	Predwood Board								
1716-B	Oil and Paint Storage Building								
1716-E	Oil and Paint Storage Equipment								
	One Oil and Paint Storage Building is provided in each of the three 100 Areas. Buildings are identical, one-story, two-room, frame structures. Foundations and partitions are concrete blocks; floor is reinforced concrete; walls are drop siding on sheathing; and roof is built up tar and gravel on wood.								
	Overall Dimension 43' x 14' x 18'	Volume 10,584 cu.ft.	Area 588 sq.ft.						
	Material	Quantity							
	Framing	1,028 f.b.m.							
	Siding	1,520 sq.ft.							
	Sheathing	1,850 sq.ft.							

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**PROJECT COST SUMMARY... MILITARY FUNDS**  
**-FINAL DETAIL COST STATEMENT-**

REPORTING OFFICE HANFORD ENGINEER GROUP PROJECT DESCRIPTION PLUTONIUM PRODUCTION PLANT  
 MONTH ENDING 31 DECEMBER 1946

CODE NO.	ACCOUNT DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNITS COSTS	
			ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
1716	Civil and Paint Storage Building (continued)							
	Material	Quantity						
	Concrete Flooring	570 sq.ft.						
	Concrete	4.4 cu.yds.						
	Concrete Blocks	647 blocks						
	Roofing	6.7 squares						
1716-B	Automotive Repair Shop							
1716-E	Automotive Repair Shop Equipment							
	One Automotive Repair Shop is provided in each of the three 100 Areas. Buildings are one-story frame structures, "L" shaped in B & D Areas, but an addition in F Area makes it "T" shaped. Foundations are concrete block and concrete piers; floors are cinder in B and D Areas and reinforced concrete in F. Area walls are drop siding on sheathing; roofs built-up surfacing on wood.							
	Overall Dimensions	Volume	Area					
1716 B & D	53' x 40' x 18'	30,400 cu.ft.	1,762 sq.ft.					
1716 F	53' x 48' x 18'	31,440 cu.ft.	1,842 sq.ft.					
	Materials	Quantity (one building)						
		1716 B & D	1716 F					
	Framing	5,356 f.b.m.	5,500 f.b.m.					
	Siding	3,036 sq.ft.	3,436 sq.ft.					
	Sheeting	4,800 sq.ft.	5,600 sq.ft.					
	Cinder Flooring	1,762 sq.ft.						
	Concrete Flooring		1,442 sq.ft.					
	Concrete	6.8 cu.yds.	25.8 cu.yds.					
	Concrete Blocks	660 blocks	660 blocks					
	Roofing	18 squares	18.5 squares					
1717-B	Combined Shops							
1717-E	Combined Shops Equipment							
	One Combined Shops building is provided in each of the three 100 Areas. These identical one-story, frame buildings contain a machine shop, carpenter shop, pipe shop, electric shop, forge shop, tool room, 6 offices, and a toilet. 1717-B houses 1717-E houses considerably more equipment. Foundations are concrete and concrete blocks; floor is reinforced concrete; walls are drop-siding on sheathing but not lined; partitions are lined one side only. Two monorail cranes are installed in this building.							
	Overall Dimensions	Volume	Area					
	150' x 80' x 26'	120,000 cu.ft.	12,000 sq.ft.					
	Materials	Quantity						
		1717-B	1717-E					
	Framing	36,500 f.b.m.						
	Siding	.20 sq.ft.						
	Sheeting	33,200 sq.ft.						
	Concrete Flooring	12,000 sq.ft.						
	Concrete	195 cu.yds.						
	Roofing	120 squares						
	Predwood	6,354 sq.ft.						
	Asbestos Board	3,200 sq.ft.						
	Structural Steel	1.2 tons						
	Reinforcing Steel Mesh	12,000 sq.ft.						
1719-D	First Aid Building							
1719-E	First Aid Building Equipment							
	One First Aid Building has been provided in each of the three 100 Areas. This rectangular shaped, one-story, frame building has concrete and concrete block foundations, reinforced concrete floor with asphalt tile surface, drop-siding on sheathing walls and felt covered roof. Partitions are lined on one side with predwood and the ceiling with gypsum board. A waiting room has been added. This rectangular shaped, frame building has wood floor and is supported on timber skids.							
	Overall Dimensions	Volume	Area					
	37' x 263' x 12'	11,200 cu.ft.	616 sq.ft.					
	Waiting Room	24' x 16' x 12'	4,416 cu.ft.	344 sq.ft.				
	Materials	Quantity						
		First Aid	Waiting Room					
	Framing	4,117 f.b.m.	1,370 f.b.m.					
	Siding	1,160 sq.ft.	640 sq.ft.					
	Sheeting	2,340 sq.ft.	1,024 sq.ft.					
	Flooring - Concrete	626 sq.ft.						
	Flooring - Wood T & G		344 sq.ft.					
	Concrete	14 cu.yds.						
	Concrete Block	30 blocks						
	Roofing	10 squares	3.5 squares					
	Predwood Board	2,367 sq.ft.						
	Gypsum Board	701 sq.ft.	1,024 sq.ft.					
	Asphalt Tile	68 sq.yds.						
1720-E	Patrol Headquarters							
1720-E	Patrol Headquarters Equipment							
	One Patrol Headquarters building is provided in each of the three 100 Areas. These rectangular shaped, one-story, frame buildings are identical. Foundation is concrete and concrete blocks; floor is reinforced concrete; walls are drop-siding on sheathing, roof is built-up tar and gravel on wood; walls are unlined and partitions lined one side only with predwood and asbestos board.							

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**PROJECT COST SUMMARY --- MILITARY FUNDS**  
**--FINAL DETAIL COST STATEMENT--**

REPORTING OFFICE BALTIMORE ENGINEER WORKS PROJECT DESCRIPTION PLUTONIUM PRODUCTION PLANT  
 MONTH ENDING 31 DECEMBER 1946

CODE NO	DESCRIPTION	ACCOUNT	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
				ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
1720	Patrol Headquarters (continued)								
	Overall Dimensions 75' x 32' x 18'	Volume 37,920 cu.ft.	Area 2,828 sq.ft.						
	Material	Quantity							
	Framing	4,718 f.b.m.							
	Siding	3,092 sq.ft.							
	Sheathing	5,704 sq.ft.							
	Concrete Flooring	2,528 sq.ft.							
	Concrete	61.3 cu.yds.							
	Concrete Blocks	680 blocks							
	Roofing	26.1 squares							
	Predwood Board	4,818 sq.ft.							
	Asbestos Board	1,100 sq.ft.							
1722-B	Area Shops								
1722-E	Area Shops Equipment								
	1722 - One Area Shop building is provided in each of the three 100 Areas. These identical, rectangular shaped, one-story, frame structures are divided by a concrete block wall into a Biggers Loft and a Paint Storage Room. Foundations are concrete and concrete block; floor is reinforced concrete; walls are drop-siding over sheathing; and flat roof in wood with built-up tar and gravel surface.			Each	4	54,633		13,868	
	1722-A - This former construction building located in the 100-B Area is of wood frame post and girder construction with gypsum board exterior walls and roll roofing. Office and shop end has wood floor and open storage end has dirt floor.			Each	4	2,927		732	
	Overall Dimensions 40' x 30' x 18' 80' x 170' x 10'	Volume 18,000 cu.ft. 75,500 cu.ft.	Area 1,200 sq.ft. 7,560 sq.ft.						
	Material	Quantity							
	Framing	1722							
	Siding	3,331 f.b.m.							
	Sheathing	1,540 sq.ft.							
	Concrete Flooring	2,740 sq.ft.							
	Concrete Blocks	1,200 sq.ft.							
	Roofing	855 blocks							
	Predwood Board	12 squares							
		1,540 sq.ft.							
1729	Extra Machinery Storehouse								
	One Extra Machinery Storehouse is provided in the 100-B and 100-D Areas. These similar former construction buildings are wood post and girder construction with wood mat foundations, wood floors, gypsum board exterior walls, celotex interior linings, and roll roofing over wood sheathing. Wood loading platforms run the full length on both sides.			Each	2	166,831		83,415	
	Overall Dimensions 100' x 178' x 18'	Volume 174,200 cu.ft.	Floor Area 16,352 sq.ft.						
	Material	Quantity							
	Framing	43,500 f.b.m.							
	Flooring	31,000 f.b.m.							
	Sheathing	12,000 f.b.m.							
	Gypsum Board	6,000 sq.ft.							
	Roofing	115 squares							
	Celotex	4,680 sq.ft.							
1734	Gas Cylinder Storage								
	One Gas Cylinder Storage building is provided in each of the three 100 Areas. These identical, one-story, frame structures with over hanger roof have four storage spaces. The foundation is concrete; the floor, reinforced concrete; the walls are sheathing, open top and bottom, and the roof is wood with tar and gravel surface.			Each	3	7,652		2,551	
	Overall Dimensions 24' x 10' x 12'	Volume 2,880 cu.ft.	Area 240 sq.ft.						
	Material	Quantity							
	Framing	935 f.b.m.							
	Sheathing	935 sq.ft.							
	Concrete Flooring	240 sq.ft.							
	Concrete	10 cu.yds.							
	Reinforcing Steel Mesh	240 sq.fts.							
	Roofing	3.5 squares							
1736	Training Building								
	One Training Building is provided in the 100-D Area only. This former construction building is wood frame with wood foundations and floor, gypsum board exterior walls, and rolled roofing.			Each	1	14,186		14,186	
	Overall Dimensions 98' x 24' x 10'	Volume 23,040 cu.ft.	Area 2,304 sq.ft.						
	Sub-Total					2,290,831			
	TOTAL 100 AREA BUILDINGS AND EQUIPMENT					120,952,051			

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**PROJECT COST SUMMARY... MILITARY FUNDS  
 -FINAL DETAIL COST STATEMENT...**

REPORTING OFFICE ..... HANFORD ENGINEERS WORKS PROJECT DESCRIPTION PLUTONIUM PRODUCTION PLANT  
 MONTH ENDING ..... 31 DECEMBER 1946

CODE NO.	ACCOUNT DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
			ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
	<b>200 AREA BUILDINGS AND EQUIPMENT:</b>  <b>200 AREA MANUFACTURING BUILDINGS AND EQUIPMENT:</b>							
211	Tank Farms  Tank Farms were constructed for each 200 Process Group, T. 3, & B, for the handling and storage of liquid chemicals and are located at the rear of the 221 buildings. The Tank Farm is divided into two parts: vertical storage tanks and horizontal storage tanks.  Vertical Storage Tanks: Nine 18'-8"-3" Cr vertical storage tanks 10' diameter by 14' high are arranged in two rows on concrete octagon-shaped foundations with wood frame access stairways and platforms.  Horizontal Storage Tanks: Six horizontal storage tanks adjoin the vertical storage tanks on reinforced concrete cradles and are provided with wood frame access stairways and platforms. Pumps are used for necessary transfer of chemicals.	Each	3	600.383		222,126		
	Overall Dimensions      Volume      Floor Area 170' x 168' x 84'      378,000 cu.ft.      14,12 sq.ft.							
	Material      Quantity Lumber (framing)      17,000 f.b.m. Reinforcing Steel      1.0 tons Concrete      210 cu.yds.							
	EQUIPMENT INCLUDED: 14 Storage Tanks, 13 Transfer Pumps, 1 Circulating Pump and 1 - 60 ton Tank Scale.							
212-B	Lag Storage Building Lag Storage Building Equipment  Three Lag Storage Buildings are provided in the 200-B Area for storage of partially processed material. These identical buildings are essentially one-story steel frame with concrete brick and concrete block walls on reinforced concrete foundations and precast tile roof covered with built-up felt, gravelled surface roofing. Each building is divided into three parts: Transfer Room, Storage Room, and Fan Room.  The Transfer Room accommodates a railroad car and is fitted with a steel roller door and an overhead crane.  The Storage Room is fitted with a monorail system and houses a 20'-9" deep water filled basin. Floor, tapered walls, and piers supporting wood operating floor are reinforced concrete construction.  The Fan Room houses heating and ventilating equipment.	Each Each	3 3	194,167 573,799		261,389 191,266		
	Overall Dimensions      Volume      Area 74' x 45'-8" x 17'-5"      184,090 cu.ft.      6,150 sq.ft.							
	Material      Quantity Wood Flooring      8,000 f.b.m. Concrete      1,335 cu.yds. Concrete Block      9,000 blocks Concrete Brick      20,000 bricks Structural Steel      67.32 tons Reinforcing Steel      94 tons Roofing      -1.5 square							
213-B	Magazine Storage Building Magazine Storage Building Equipment  One Magazine Storage Building is provided in the 200-B Area. This building contains two identical, parallel vaults in a reinforced concrete, earth covered structure with the entrance end of each vault forming a continuous V-shaped retaining wall with attached loading platforms. Each section contains three rooms, namely: Magazine, Vestibule, and Instrument. The latter two rooms have six-hour fire resistive, double combination lock, steel doors installed in the retaining wall. Roofs have membrane waterproofing, 2 ply, with 1" celotex protective covering and exterior surface of rear and side walls is treated with "Carbosite" waterproofing. Ventilation is provided by four 12" diameter A.C.M. ventilators in each unit. Reinforced concrete shelving with concrete brief partitions line each side of Magazine Section.	Each Each	2 2	70,572 4,355		35,286 2,177		
	Overall Dimensions      Volume      Area 47' x 147' x 21'      14,877 cu.ft.      1,155 sq.ft.							
	Material      Quantity Reinforcing Steel      145 tons Concrete      403 cu.yds. Concrete Block      1,500 blocks Waterproofing      6.5 squares Painting (Carbosite)      4,750 sq.ft.							
214	Process Waste Disposal Trench One Process Waste Disposal Trench is provided in the 200 East Area. This facility consists of a V shaped ditch, service road and fence.	Each	1	1,671		1,671		
	Dimensions      Volume      Area 15'-1" x 250'      37,500 sq.ft. 200' x 16' x 8'      12,800 cu.ft.      3,200 sq.ft.							

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**PROJECT COST SUMMARY -- MILITARY FUNDS**  
**--FINAL DETAIL COST STATEMENT--**

REPORTING OFFICE.....~~MASTERS ENGINEER WORKS~~.....PROJECT DESCRIPTION.....~~PLATINUM PRODUCTION PLANT~~  
 MONTH ENDING.....~~31 DECEMBER 1946~~.....

CODE NO	DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
			ACTUAL		ACTUAL		ACTUAL	
214	Process Waste Disposal Trench (Continued)							
	Material	Quantity						
	Lumber	cu.000 f.b.o.						
	Woven Wire - 6'	1,000 ft.						
	Barb Wire	2,400 ft.						
	Kreavation	475 cu.yds.						
221-B	Cell Building							
221-B	Cell Building Equipment							
	One Cell Building is provided in each of the T, U, & B process groups of the 200 Area. The buildings are identical in construction and shape except that 221-T is 65' longer, having a Head End Addition. The buildings are rectangular in shape with approximately one-quarter below grade, and construction is massive reinforced concrete, the foundation being 6' to 8" thick, walls 1', 5' & 7' and roof 1' to 4" thick. Stair towers are constructed on both back and front sides and a reinforced concrete railroad tunnel extends 150' from front side to provide rail service to the building. The building is separated into two main portions: Galleries and Canyon. Control Boards are located in three galleries, one above the other, along the front side of building. The Canyon contains the cells which have removable reinforced concrete covers, and an exhaust duct and a ice trench running the length of the building.	Each	3		19,376.531		6,458.844	
					1m.907.672		5,635.891	
							12194735	
221-T	Overall Dimensions	Volume	Area					
221-U & B	85'-2" x 87'-6" x 102'	5,185.220 cu.ft.	66,319 sq.ft.					
	85'-2" x 810'-6" x 102'	5,185.220 cu.ft.	61,562 sq.ft.					
	Material	Quantity						
	" <sup>221-T</sup>	<sup>221-U</sup>	<sup>221-B</sup>					
	Reinforcing Steel tons	1,840	1,678	1,678				
	Reinforcing Mesh sq.ft.	27,000	23,000	23,000				
	Concrete cu.yds	90,473	81,093	79,669				
	Concrete Blocks blocks	500	500	500				
	Roofing squares	400	366	366				
	*Structural Steel tons	180,485	170,688	170,688				
	*	Roof trusses for temporary construction use only.						
222-B	Sample Preparation Laboratories							
222-B	Sample Preparation Laboratories Equipment							
	One Sample Preparation Laboratory building is provided in each of the 200 Process Groups - T, U & B. The buildings are identical, one-story, 22 rooms, reinforced concrete frame and concrete block wall structures. Roofs are reinforced concrete with 1" insulation board built-up, gravel surfacing. Floors are reinforced concrete and partitions are 4" concrete block. Two rooms are of explosion proof construction: 2" thick reinforced concrete walls and ceiling, and a floor built up of a 2" layer of cork between two 4" layers of concrete. The building is windowless. A Sheetmetal lean-to and Sheetmetal box is located adjacent to each building for solvent storage.	Each	3		502,039		167.446	
					4 2,100		114.53	
							301,399	
224-B	Overall Dimensions	Volume	Area					
224-B	54'-0" x 150'-6" x 15'-2"	111,462 cu.ft.	1,336 sq.ft.					
	Material	Quantity						
	Lumber (tris)	1,000 f.b.o.						
	Structural Steel	0.25 tons						
	Reinforcing Steel	17.5 tons						
	Reinforcing Mesh	7,000 sq.ft.						
	Concrete	659 cu.yds.						
	Roofing (Built-up)	10.71 squares						
	(Sheetmetal)	0.40 squares						
	Concrete Block 8" x 8" x 16"	4,120 blocks						
	Concrete Block 6" x 8" x 16"	6,000 blocks						
	Plaster (3" thick)	155 sq.yds.						
	Linoleum (1/8" thick)	855 sq.ft.						
	Asphalt Tile Floor Covering (1/16" thick)	2,760 sq.ft.						
	Cork Floor Insulation (2" thick)	746 sq.ft.						
	Roof Insulation (1" thick)	47.41 squares						
	Vibracoustic Board (1" thick)	1,250 sq.ft.						
224-B	Bulk Reduction Buildings							
224-B	Bulk Reduction Buildings Equipment							
	Three 3-story reinforced concrete frame structures with concrete and concrete block exterior and interior walls were constructed, one for each of the 200 Process Groups, T, U, & B. Each building contains a total of 21 rooms not including two stair towers, one closet, one janitor's closet, and an elevator penthouse. The back side of the main structure has 1" thick concrete walls with a balcony running around three sides. The front side of the main structure is reinforced concrete frame with 8" concrete block panels and 6" and 4" concrete block partitions. The first floor contains two offices, Chemical Storage Room, a Central Ventilation Room, which provides filtered and tempered air with humidification, Lunch Room, Wash Room, Shower Room, two Toilet Rooms and two Locker Rooms. The second floor is principally a Pipe Loft containing five concrete vestibules opposite each centrifuge platform. The third floor is the Operating Gallery containing gauge boards and weigh tanks, etc. Building foundations are comprised of reinforced concrete walls with spread footings, reinforced concrete piers and beams, and concrete pads. Floor slabs are reinforced concrete 4" to 12" thick. Roofs are flat reinforced concrete 3" to 12" thick.	Each	3		1,019,012		346,337	
					1,018,170		346,123	
							1,852,460	

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**PROJECT COST SUMMARY... MILITARY FUNDS**  
**--FINAL DETAIL COST STATEMENT--**

REPORTING OFFICE.....**HARFORD ENGINEER WORKS**.....PROJECT DESCRIPTION.....**PLUTONIUM PRODUCTION PLANT**  
MONTH ENDING.....**31 DECEMBER 1956**.....

CODE NO.	ACCOUNT DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
			ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
226	Bulk Reduction Buildings (Continued) covered with built-up felt, gravel surfaced roofing, containing 8 wood frame ventilators with motors.							
	Overall Dimensions      Volume      Area 60' x 18' x 18' x 60'-5"      507,000 cu.ft.      11,482 sq.ft.							
	Material      Quantity Lumber (framing & finish)      6,000 f.b.m. Reinforcing Steel      146 tons Reinforcing Mesh      8,000 sq.ft. Concrete      2,832 cu.yds. Concrete Blocks 8" x 8" x 16"      6,700 48 x 8" x 16"      5,500 Concrete Bricks 2" x 4" x 8"      3,500 Roofing (built-up)      121.4 squares							
	EQUIPMENT INCLUDED: Agitators, tanks and scales, pumps, heaters, ventilating system, freight elevator and crane.							
c31-B	Concentration Building	Each	1		460,116		460,116	
c31-B	Concentration Building Equipment	Each	1		1,864.156		1,864.156	
	One Concentration Building is provided, located in the 200-W Area. This is a 2-story, flat roof, reinforced concrete, frame building with 8" concrete block panels and 4" and 8" concrete block partitions. The structure is of fire-proof construction throughout having most of the rooms completely air conditioned. For the latter reason windows have been omitted. The building contains a total of 57 rooms. The central roof portion of the building is 4'-10" higher than the East end of the building and 17'-2" above the 1-story Ventilation and Equipment Room which runs along the West end of the building. Building foundations are composed of reinforced concrete piers with spread footings and concrete walls with spread footings. Floors are reinforced concrete varying from 4" to 12" thick. The walls and ceilings of the Cell Laboratories and Vaults A & B are reinforced concrete 1" thick. Roofs are likewise reinforced concrete 4" thick and are covered with built-up felt, gravel surfaced roofing containing numerous openings for intake and exhaust ducts. A reinforced concrete sump pit 17' x 17' x 17'-6" deep is located approximately 11'-6" east of Building 231-W. This pit extends up approximately 4' above grade and contains a 20' x 30' 25-12-S-Cb sump tank with agitator.							
	Overall Dimensions      Volume      Area 15'-7" x 18'-10" x 18'-6"      403,200 cu.ft.      97,464 sq.ft.							
	Material      Quantity Lumber (Trim)      6,000 f.b.m. Reinforcing Steel      142 tons Reinforcing Mesh 60' x 61'      10,152 sq.ft. Concrete      1,083 cu.yds. Concrete Blocks 4" x 8" x 16"      12,200 4" x 8" x 16" Acoustic Tile Panel 12" x 12"      10,405 sq.ft. Plaster      1,290 sq.yds. Roofing (built up)      241.26 sq.ft.							
	EQUIPMENT INCLUDED: Not listed.							
241	Process Waste Storage & Disposal Systems	Each	4		10,136.426		2,534.106	
	A Process Waste Storage and Disposal System building is provided in each of the 200 Area Process Groups: T, U, I & C. This building covers a considerable area and consists of a variety of structures:							
	1. Composite Storage Tanks. There are twelve 75' dia. and four 20' dia. underground composite tanks. Tanks are reinforced concrete with 2" steel lining on sides and bottom and a 1/4" layer of water proofing concrete and "Quonite" between steel and concrete. These have enlarged feet tine around circumference. Top is arched reinforced concrete in large and flat slab in small tank. Welded joints were inspected by X-ray method to insure against leakage. Backfill was placed around and over the tanks to provide a minimum coverage of 9' over the domes. 2. Catch Tank. One 20' dia. "Quonite" Sump Tank is provided in 1 groups and 2 tanks in the B group. 3. Diversion Boxes. Four reinforced concrete boxes with removable concrete covers are provided in each group. 4. Settling Tank. One tank similar to catch tank is provided in three of the groups (omitted in C) for settling water only. 5. Retention Basins. Two Retention Basins, the walls and bottoms constructed of reinforced concrete, are provided in three of the groups (omitted in C). 6. Observation Wells. Seven wells, 4" to 12" in dia. and 15' deep and one well, 6" x 12" in dia. and 300' deep, were drilled and cased in each of the four groups.							
	Structure      Dimensions      Volume      Area							
	Composite Storage Area      500' x 500'							
	(Fenced Area)							
	Composite Storage Tank      300' x 40' x 37'		4,480,000 cu.ft.	120,000 sq.ft.				
	Area - (Overall)      75' x 190' x 37'		527,200 cu.ft.	14,390 sq.ft.				
**	Cooling & Retention Area (Fenced Area)							
	Retention Pools (2)      150' x 400'		227,930 cu.ft.	50,178 sq.ft.				
**	Settling Tank Area (Fenced Area)							
	Settling Tank (Overall)      21' C.C. x 28'		0,688 cu.ft.	1,156 sq.ft.				
	** Omitted for 241-C							

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**PROJECT COST SUMMARY... MILITARY FUNDS**  
**..FINAL DETAIL COST STATEMENT...**

REPORTING OFFICE.....**WAR DEPARTMENT ENGINEERS**..... PROJECT DESCRIPTION.....**PLUTONIUM PRODUCTION PLANT**  
MONTH ENDING.....**31 DECEMBER 1946**.....

CODE NO	DESCRIPTION	ACCOUNT	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
				ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
41	Process Waste Storage & Disposal Systems (Continued)								
	Material	Quantity							
	Framing	4,500 f.b.m.							
	Poles	8 - 70 ft. long							
	Steel Tank Lining (4")	1,475 tons							
	Reinforcing Steel	.07 tons							
	Reinforcing Steel Mesh	61,488 sq.ft.							
	Concrete	11,070 cu.yds.							
	Gunito	.09 cu.yds.							
	Membrane Waterproofing	6,580 sq.yds.							
	Membrane Mesh	126,410 sq.ft.							
	Painting	6,490 sq.yds.							
	Above quantities are for typical units T, U, & B only.								
251-B	Primary Substation								
251-B	Primary Substation Equipment								
	One open frame Primary Substation is provided in the 200 E Area to furnish 11.5 KV power to the whole 200 Areas. This station is composed of a wood fenced, gravel surfaced area 301' x 330'. The Switch House is a one-story concrete block and reinforced concrete structure having a sub-level cable pit. Roof is pre-cast concrete tile supported on structural steel framing resting on concrete brick pillars. Floors are reinforced concrete and partitions are concrete block. A railroad spur directly serves this building to provide for changing the main transformer. Outside equipment is supported on reinforced concrete foundations.								
	Overall Dimensions	Volume	Area						
	Switch House	24'-10" x 35'-0" x 15'-8"	21,085 cu.ft.	1,134 sq.ft.					
	Material	Quantity							
	Fence Lumber	16,000 f.b.m.							
	Structural Steel	7.32 tons							
	Reinforcing Steel	11.35 tons							
	Concrete	648 cu.yds.							
	Concrete Blocks 4" x 8" x 16"	4,545 blocks							
	Concrete Blocks 4" x 8" x 16"	775 blocks							
	Concrete Bricks	2,000 bricks							
	Roofing	14.7 squares							
	Kerdoct (several sizes)	5,050 ft.							
252-B	Secondary Substations								
252-B	Secondary Substations Equipment								
	One Secondary Substation is provided in each of the three 200 Areas. All three substations are open frame surrounded with frame picket fences. In the East and West Areas, only, a Switch House is provided. Switch Houses are one-story reinforced concrete and concrete block structures with concrete tile roof supported on structural steel frames. Roof surfacing is built-up felt and gravel.								
	Overall Dimensions	Volume	Area						
	252 E & W Area	27'-0" x 34'-0" x 15'-7"	4,600 cu.ft.	910 sq.ft.					
	52 E & W Switch house	27'-0" x 15'-0"	5,470 cu.ft.	415 sq.ft.					
	252 W Area	21'-7" x 23'-0" x 15'-5"	7,710 cu.ft.	1,600 sq.ft.					
	Material	Quantity							
	Lumber	252 f.b.m.							
	Structural Steel	1,000 tons							
	Concrete	60 cu.yds.							
	Roofing (Built-Up)	4.63 squares							
	Concrete Block	1,175 blocks							
253	Distribution Substations								
	A total of 18 Distribution Substations are provided in the three 200 Areas - 17 in 200-E, 21 in 200-W, and 4 in 200-E. These Substations are similar in design and construction, differing only in number and size of transformers in each, and all have primary voltage of 2.4 KV. Substations are open frame construction using wood poles and picket fences. Equipment was set on concrete pads and later elevated wood platforms via end-d between poles.								
	Material	Quantity							
	Concrete	53 cu.yds.							
271-B	Chemical Preparation and Service Buildings								
271-B	Chemical Preparation and Service Buildings Equipment								
	One Chemical Preparation and Service Building is provided in each of the three 200 Areas, T, U, and W.								
	This building consists of a four-story reinforced concrete frame structure with concrete block exterior and interior walls. Each building contains a total of 16 rooms, two stair towers, two pipe shafts, two air shafts, and one elevator shaft. 3 vestibules, two janitor's closets, and seven corridors. Building foundations and basement walls are combination of reinforced concrete stirs and walls with spread footings. Floor slabs are reinforced concrete varying from 4" to 12" thick. A portion of the roof has been designed to support a 10,000 gal. tank for demineralized water. Roof is of reinforced concrete slab varying from 4" to 8" thick and is covered with built-up felt gravel surfaced.								
	Overall Dimensions	Volume	Area						
	271-B	21'-0" x 42'-0" x 15'-0"	1,700 cu.ft.	1,110 sq.ft.					
	Material	Quantity							
	Concrete	1,110 cu.yds.							
	271-B	21'-0" x 42'-0" x 15'-0"	1,700 cu.ft.	1,110 sq.ft.					
	Material	Quantity							
	Concrete	1,110 cu.yds.							

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**PROJECT COST SUMMARY... MILITARY FUNDS**  
**--FINAL DETAIL COST STATEMENT--**

REPORTING OFFICE MARSHAL ENGINEERS WORKS PROJECT DESCRIPTION PLUTONIUM PRODUCTION PLANT

MONTH ENDING.....

11 DECEMBER 1946

CODE NO	DESCRIPTION	ACCOUNT	UNIT OF MEASURE	TOTAL COSTS		UNIT COSTS ACTUAL
				QUANTITY ACTUAL	AMOUNT ACTUAL	
271	Chemical Preparation & Service Buildings (Continued)					
	Building Overall	Dimensions 10' x 12' x 20' - 10'	Volume 400,700 cu.ft.	Area 9,000 sq.ft.		
		Material	Quantity			
		Lumber (trim, platform, & finish)	3,000 f.b.m.			
		Reinforcing Steel	111 tons			
		Reinforcing Mesh #9	4,400 sq.ft.			
		Concrete	1,410 cu.yds.			
		Concrete Blocks	12,113			
		Concrete Bricks 12" x 4" x 8"	1,000			
		Roofing (built-up)	81.14 sqrs.			
		Roofing (Asphalt Tile)	1,076 sq.ft.			
272-B	Area Shops					
272-E	Area Shops Equipment					
		One Area Shops Building is provided the two 200 Areas - East and West. The buildings are similar except the East building has four stories high and the West has only six. The building has a steel frame, with drop-siding over sheathing walls, and built-up roof on everything. Foundations are reinforced concrete piers and curtain walls. A one story lean-to section with timber frame adjoins one side. Interior walls and linters are plaster, gypsum and gypsum board.	Each	2	544,379 +1,464	109,069 209,-72
		Overall Dimensions 10' x 12' x 20' - 10'	Volume 400,500 cu.ft.	Area 10,111 sq.ft.		
		Dimensions 10' x 12' x 20' - 10'	Volume 714,576 cu.ft.	Area 11,461 sq.ft.		
		Material	Quantity			
		Wood (Framing)	272-B			
		(Sheathing & Decking)	68,000 f.b.m.	60,000 f.b.m.		
		(Siding) (No pine)	71,700 f.b.m.	82,000 f.b.m.		
		Structural Steel	24,000 f.b.m.	24,000 f.b.m.		
		Reinforcing Steel Bars	120 tons	110 tons		
		Reinforcing Steel Mesh	70,118 sq.ft.	20,700 sq.ft.		
		Concrete	11 cu.yds.	10 cu.yds.		
		Roofing	738.53 squares	738.01 squares		
		Transite Boards	770 sq.ft.	770 sq.ft.		
		Gypsum Board 3/8"	1,100 sq.ft.	2,100 sq.ft.		
		Firwood 8"	1,200 sq.ft.	1,700 sq.ft.		
273-B	Heat Treating Furnace					
273-E	Heat Treating Furnace Equipment					
		One Heat Treating Furnace is provided in the 200-E Area. This building consists of a rectangular structural steel frame building set on reinforced concrete foundations having corrugated asbestos siding and roofing. The building houses heat treating furnace having approximately 11' x 36' x 11' inside dimensions and will handle a 11' wide gauge car. Other facilities are a transfer, tickling, and washing area; a chemical and oil storage farm; and a pickling tank consisting of a reinforced concrete tank with carbon and acid proof brick lining approximately 14' x 14' x 11'; and a water spray quenching station with equipment supported on a steel frame.	Each	1	67,126 216,124	1,125 216,024
		Overall Dimensions 10' x 12' x 11'	Volume 368,334 cu.ft.	Area 11,014 sq.ft.		
		Material	Quantity			
		Lumber	2,500 f.b.m.			
		Structural Steel	71.18 tons			
		Reinforcing Steel	16 tons			
		Reinforcing Mesh	1,406 sq.ft.			
		Concrete	451 cu.yds.			
		Corrugated Asbestos	5,000 sq.ft.			
		Carbon Brick (2' x 8' x 8")	10,000			
		Acid Proof Brick (2' x 8' x 8")	8,500			
		*Does not include structural steel furnished by Sub-Contractor for use in direct furnace construction.				
274	Machinery Storehouse					
		One Machinery Storehouse is provided in each of the two 200 Areas, E & W. Building foundations are 8" reinforced concrete curtain walls with tapered concrete piers supporting the center columns. Floor slabs are reinforced concrete of 1" thick and built 1' above grade. From the floor up the buildings are of wood frame, post and girder construction, with 1" T. & G. sheathing and decking throughout. Side walls are covered with 1" drop siding with building paper insulation between siding and sheathing. Roofs are sloped two ways and are covered with built-up felt, gravel surfaced.	Each	2	58,825	29,412
		Dimensions 10' x 12' x 20' - 7'	Volume 75,117 cu.ft.	Area 1,792 sq.ft.		
		Material	Quantity			
		Lumber (Framing)	7,000 f.b.m.			



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**PROJECT COST SUMMARY... MILITARY FUNDS**  
**-FINAL DETAIL COST STATEMENT...**

REPORTING OFFICE **HANFORD ENGINEERS WORKS**PROJECT DESCRIPTION **PLUTONIUM PRODUCTION PLANT**MONTH ENDING **31 DECEMBER 1946**

CODE NO	DESCRIPTION	ACCOUNT	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
				ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
274	Machinery Storehouse (Continued)								
	Material	Quantity							
	(Siding)	1,125 f.b.m.							
	(Decking)	1,826 f.b.m.							
	Reinforcing Steel	.0 tons							
	Reinforcing Mesh #9 & #11	4,400 sq.ft.							
	Concrete	.226 cu.yds.							
	Roofing (built-up)	39.44 sqs.							
275	Chemical Storehouse								
	One Chemical Storehouse is provided in each of the two 200 Areas, E & W. Building foundations are 8" reinforced concrete curtain walls with tapered concrete piers supporting the center column. Floor slabs are reinforced concrete, 6" thick and built 4' above grade. From the floor in the buildings are of wood frame, post and girder construction, with 1" T. & G. sheathing and decking throughout. Side walls are covered with 1" drop siding with building paper insulation between siding and sheathing. Roof are sloped two ways and are covered with built-up felt, gravel surfaced.		Each	2		47,400		23,745	
	Dimensions	Volume	Area						
	Building Overall	18'-0" x 7'-0" x 20'-7"	78,181 cu.ft.	1,707 sq.ft.					
	Material	Quantity							
	Lumber (Framing)	7,000 f.b.m.							
	(Siding)	1,025 f.b.m.							
	(Decking)	1,125 f.b.m.							
	Reinforcing Steel	2.0 tons							
	Reinforcing Mesh #9 & #11	4,400 sq.ft.							
	Concrete	.226 cu.yds.							
	Roofing (built-up)	10.48 sqs.							
282-B 282-E	Reservoir & Pump House Building								
	Reservoir & Pump house Building Equipment								
	One Reservoir and Pump House Building is provided in each of the two 200 Areas - East & West. This structure consists of an Inlet House; Reservoir; Pump House; and Chlorine Storage Structure. The construction of the Inlet House is as follows: one-story concrete block building one-half below grade, 9" reinforced concrete foundation wall spread footings, flat concrete tile roof covered with built-up felt gravel surfaced roofing supported by structural steel frames. The Reservoir is of concrete construction with inside dimensions of 17' x 17' with a maximum storage depth of 1-1/2" and a capacity 5,000,000 gallons. The Pump House Building is a two-story structure having a basement or pump section built entirely below grade, and is a concrete block structure with a concrete tile roof covered with built-up gravel surfaced roofing supported by structural steel roof framing. The Chlorine Storage structure is concrete block construction and concrete floor slab.		Each	2		347,441		173,720	
	Overall Dimensions	Volume	Area						
	17'-0" x 20'-0" x 15'-0"	200,320 cu.ft.	12,480 sq.ft.						
	Material	Quantity							
	Lumber (Framing)	1,000 f.b.m.							
	Structural Steel	.56 tons							
	Reinforcing Steel	.47 tons							
	Reinforcing Mesh	15,800 sq.ft.							
	Concrete	1,715 cu.yds.							
	Concrete Blocks (8"x8"x16")	1,450							
	Roofing (built up)	14.64 squares							
	Concrete Roof Tile	644 sq.ft.							
283-B 283-E	Filter Plant Building								
	Filter Plant Building Equipment								
	One Filter Plant Building is provided in both the 200E and the 200 W Areas. Each plant consists of Sedimentation Basins, Head House, Clearwell Reservoir, and Pump Room, identical throughout. On the front side of the Head House are the two open, reinforced concrete Sedimentation Basins each 17' x 11' x 12'. The Head House is an L-shaped, 2 & 3-story structure of both reinforced concrete and structural steel frame with concrete block walls and partitions on reinforced concrete foundations. Roof is concrete tile with built-up felt and gravel surfacing. The sub-level, covered Clearwell and Pump Room located on back side of Head House has reinforced concrete footings, walls, floor and roof. Roof surfacing is built-up felt and gravel.		Each	2		567,036		283,518	
	Overall Dimensions	Volume	Area						
	7'-0" x 17'-0" x 55'	205,802 cu.ft.	8,670 sq.ft.						
	Material	Quantity							
	Lumber	2,000 f.b.m.							
	Structural Steel	.16 tons							
	Reinforcing Steel	.03 tons							
	Reinforcing Mesh	3,170 sq.ft.							
	Concrete	1,917 cu.yds.							
	Concrete Blocks	6,180							
	Concrete Bricks	1,000 bricks							
	Concrete Tile	2,470 sq.ft.							
	Roofing	66.44 squares							

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**PROJECT COST SUMMARY - MILITARY FUNDS**  
**--FINAL DETAIL COST STATEMENT--**

REPORTING OFFICE RAYFORD ENGINEER WORKS

PROJECT DESCRIPTION PLUTONIUM PRODUCTION PLANT

MONTH ENDING 31 DECEMBER 1944

CODE NO.	DESCRIPTION	ACCOUNT	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS			
				MEASURE	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL		
					ACTUAL						
<b>200 AREA MANUFACTURING BUILDING AND EQUIPMENT (Continued):</b>											
284-E		Power House	Each	2		1,084,831	542,415				
284-E		Power House Equipment	Each	2		2,675,413	1,437,707				
One Power House is provided in each of the two 200 Areas, E & W. Each Power Plant consists of the following structures: Main Power House Building; 2 Reinforced Concrete Stacks partially lined; Coal Handling Conveyor System, including 2 Track Hoppers; Crusher House, and 2 Transfer Houses; and Open Coal Storage Pit; and Salt Dissolving Pit, including a Brine Pump House. Stacks are 9' I.D. at the top and 250' high. Note: See building description 184-B, D & F - Power Houses.											
284-E		Power House (Overall)	Dimensions	Volume		Area					
(284-E Overall)		73' x 156' x 80'	670,432 cu.ft.	21,114 sq.ft.							
284-W		Coal Handling System	71' x 513' x 88'	90,000 cu.ft.		5,780 sq.ft.					
(284-W Overall)		78' x 183' x 88'	88,500 cu.ft.	6,040 sq.ft.							
284-E		Coal Storage Pit	310' x 350' x 11'	1,135,500 cu.ft.		103,500 sq.ft.					
(284-E Overall)		280' x 390' x 11'	1,135,500 cu.ft.	101,500 sq.ft.							
284-W		Coal Storage Pit	18' x 12' x 12'	4,704 cu.ft.		416 sq.ft.					
(284-W Overall)		Total 284-E	1,864,708 cu.ft.	130,500 sq.ft.							
284-W		Salt Storage Pit	18' x 12' x 12'	1,727 cu.ft.		131,150 sq.ft.					
Dimensions											
284-E		Lumber (Purlins, Walkways, etc.)	5,000 f.b.m.	Quantity							
284-W		Structural Steel	402 tons								
284-E		Grating	3,000 sq.ft.								
284-W		Reinforcing Steel	68 tons								
284-E		Reinforcing Mesh	.290 sq.yds.								
284-W		6 x 6 #6	1,680 sq.yds.								
284-E		Concrete	2,162 cu.yds.								
284-W		Concrete Blocks (8" x 4" x 16")	22,000								
284-E		(14" x 4" x 1-1/2")	500								
284-W		Concrete Bricks (2" x 4" x 8")	14,000								
284-E		Concrete Roof Tile	11,000 sq.ft.								
284-W		Roofing (built-up)	116 sq.yds.								
284-E		Transite Roofing	55.5 sq.yds.								
284-W		Transite Siding	96.0 sq.yds.								
* NOTE: Does not include structural steel for Coal Handling System.											
285		Ash Disposal Pit	Each	3		24,015	12,007				
One Ash Disposal Pit is provided in each of the two 200 Areas, E & W. These pits are connected with the power houses by 520' of 4" line in the East Area and 1,250' of 6" line in the West Area. A borrow pit was utilized in the West Area, but a square area was excavated and diked for the East Area.											
285		Dimensions	Volume	Area							
285		East	311' x 311' x 7'-5"	725,400 cu.ft.		50,721 sq.ft.					
285		West	Irregular								
285		Excavation	11,700 cu.yds.								
285		Fill	2,000 cu.yds.								
Exhauster Buildings and Stacks											
281-B		Exhauster Buildings and Stacks	Each	3		10,432	11,311				
Exhauster Buildings and Stacks are provided in the 200 Area - one each in the T, U & B Areas adjacent to the 221 buildings. A Stack was constructed in the 200 G Area but other portions were not completed. This structure consists of a control house, three blowers, inlet and outlet ducts and stack. The control house houses the steam powered blower and has reinforced concrete frame, foundation, floors and roof and concrete block walls. The blowers are set on concrete bases. The ducts are underground passageways constructed with 12" thick reinforced concrete walls. The Stacks are reinforced concrete shells, 200' tall, having an independent metal proof brick lining 5" inside diameter at the top. Stack foundations are reinforced concrete, octagon shaped.											
281-B		Overall Dimensions	Volume	Area							
281-B		Control Houses	11'-0" x 18'-0" x 177'-8"	5,430 cu.ft.		1400 sq.ft.					
281-B		Inlet Duct	17'-0" x 18"-0" x 10'-0"								
281-B		Stack Base	23'-0" x 23'-0" x 10'-0"								
281-B		Stack	20'-0" High x 13'-10 3/8" O.D. at bottom								
Dimensions											
281-B		Height	Width	Length							
281-B		O.D.	I.D.	O.D.							
281-B		7'-0"	7'-0"	7'-0"							
281-B		7'-0" to 10'-0"	7'-0" to 10'-0"	6'-0"		24'-0"					
281-B		6'-0"	6'-0"	6'-0"							
Outlet Duct											
281-B		5'-0" to 6'-0"	5'-0"	11'-0"		47'-0"					
281-B		10'-0"	10'-0"								
Material											
281-B		Reinforcing Steel	Quantity	14.1 tons							

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**PROJECT COST SUMMARY ... MILITARY FUNDS**  
**-FINAL DETAIL COST STATEMENT...**

REPORTING OFFICE HANFORD ENGINEER WORKS PROJECT DESCRIPTION PLUTONIUM PRODUCTION PLANT  
 MONTH ENDING 31 DECEMBER 1946

CODE NO.	ACCOUNT DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
			ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
201	Exhaustor Buildings and Stacks (Continued)							
	Material	Quantity						
	Concrete	497 cu.yds.						
	Roofing (built-up)	3.7 sqs.						
	Concrete Block (8"x8"x16")	775						
202-B	Exhaust Gas Laboratories							
J-2-E	Exhaust Gas Laboratories Equipment							
	One Exhaust Gas Laboratory is provided in each of the three 200 Areas, T, U, & V. This structure consists of a one-story reinforced concrete and concrete block building with 9" reinforced concrete curtain wall foundation; 4" reinforced concrete floor; 5" concrete block wall's; and 4" reinforced flat roof slab, supported with concrete beams, and covered with built-up felt gravel surfaced roofing.	Each	1	1	4,052	17,740	4,17	12,593
	Dimensions	Volume	Area					
	Building (Overall) 16' x 21' x 19'-7"	5,21 cu.ft.	116 sq.ft.					
	Material	Quantity						
	Lumber (Flooring & finish)	700 f.b.m.						
	Reinforcing Steel	.40 tons						
	Concrete	21 cu.yds.						
	Roofing (built-up)	3.71 sqs.						
	Concrete Block (8"x8"x16")	1,150						
	Sub-Total				62,847.690			
	200 AREA ADMINISTRATIVE BUILDINGS AND EQUIPMENT:							
2711-B	Gate House							
2711-E	Gate House Equipment							
	E & W - One Main Gate House is provided in each of the two 200 Areas - E & W. The buildings are identical, two-story frame structures resting on concrete foundation and reinforced concrete first floor. Exterior walls are drop-siding and roof is tar and gravel surfaced. Second floor walls and partitions are lined and ceiling is insulated.	Each	6	6	52,561	9,218	4,327	1,719
	EA & WA - Four one-story frame Gate Houses are provided in the 200 Area at individual buildings, three in W and one in E. Walls are drop-siding exterior and asbestos board interior; floor is concrete, and roof is built up flat on sheathing.	Each	6	6				
	Overall Dimensions	Volume	Area					
	E & W 31' x 21' x 28'	15,700 cu.ft.	200 sq.ft.					
	WA 31'-2" x 10'-11" x 19'-7"	101 cu.ft.	97 sq.ft.					
	Material	Quantity						
	Framing	2,444						
	Siding	250 f.b.m.						
	Sheathing	100 f.b.m.						
	Reinforcing Steel Mesh	100 sq.ft.						
	Concrete	2.8 cu.yds.						
	Roofing	1.75 squares						
	Asbestos Board	3/4 C sq.ft.						
2704-B	Supervisors' Office Building							
2704-E	Supervisors' Office Buildings Equipment							
	One Supervisors' Office Building is provided in each of the two 200 Areas, E & W. This structure consists of a one-story, L-shaped, wood frame, gable roof, office building containing 27 rooms. On side building foundation walls are 8" concrete block laid on plain concrete and footings and intermediate supports are reinforced piers with spread to 12' covering the center fireplace and columns. Outside building walls are covered with 1" T & G sheathing and drop-sided with building insulation in between. Building ceiled throughout with 1/8" gypsum board. Roofs are gabled and hipped with a 6 on 12 pitch and are covered with built-up felt roofing over 1" T & G sheathing.	Each	2	2	108,-24	2,564	54,712	1,312
	Dimensions	Volume	Area					
	Overall 31'-1" x 119'-4" x 16'	165,500 cu.ft.	2,518 sq.ft.					
	Material	Quantity						
	Lumber (Framing)	37,500 f.b.m.						
	(Bearing)	6,600 f.b.m.						
	(Siding)	4,400 f.b.m.						
	(Shedding & Decking)	13,600 f.b.m.						
	Reinforcing Steel	.1 tones						
	Concrete	10 cu.yds.						
	Concrete Blocks 8" x 8" x 16"	1,400						
	Roofing (built-up)	55.12 sqs.						
	Asbestos Board 1/16"	11,650 sq.ft.						
	Gypsum Board 1/8"	6,500 sq.ft.						
	Pinewood 1"	900 sq.ft.						
	Galvanized 1/4"	104 sq.ft.						
K-7-B	Change Houses							
2707-E	Change houses Equipment							
	2707 - One Change House of this type is provided in both the 200 E and 200 W Areas. Buildings are identical wood frame, one-story structures with concrete footings, concrete block foundations, concrete floors, drop siding over sheathing walls, and built-	Each	6	6	42,192	10,119	4,523	1,730

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**PROJECT COST SUMMARY... MILITARY FUNDS**  
**--FINAL DETAIL COST STATEMENT--**

REPORTING OFFICE MARSHFIELD ENGINEERS WORKS PROJECT DESCRIPTION PLUTONIUM PRODUCTION PLANT  
 MONTH ENDING 11 DECEMBER 1946

CODE NO	DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
			ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
2707	Change Houses (Continued) up felt and gravel roofing over sheathing. Interior Linings are broadwood gypsum board, and asbestos board. 2707-A - One Change House of this type is provided in both the 200 E and 200 W Areas. Construction is similar to above buildings.							
	Overall Dimensions <u>17' 5" x 25' 6" x 16' - 10"</u> <u>16' x 44' - 10" x 15'</u>	Volume	12,410 cu.ft.	Area	2,551 sq.ft.			
			10,515 cu.ft.		108 sq.ft.			
	Material	Quantity						
	Lumber (Framing)	5,000 f.b.m.	1,700 f.b.m.					
	(Siding)	1,200 f.b.m.	1,450 f.b.m.					
	(Sheathing)	5,000 f.b.m.	2,150 f.b.m.					
	Roofing	20.75 squares	.14 squares					
	Concrete	46.5 cu.yds.	13 cu.yds.					
	Concrete Block	400 blocks	400 blocks					
	Asbestos Board	406 sq.ft.	1,410 sq.ft.					
	Preswood	1,000 sq.ft.						
	Gypsum Board	100 sq.ft.						
2709-B	Fire Head Quarters	Each	2		65,519			
2709-B	Fire Head Quarters Equipment	Each	2		6,759			
	One Fire Headquarters building is provided in each of the two 200 Areas. The buildings consist of a permanently constructed Truck Storage building and an addition of temporary design to furnish living quarters for the firemen. The buildings are identical.				6,759			
	Truck Storage building is a one-story, frame structure with 30' hose drying tower, supported on a concrete foundation and reinforced concrete floor.							
	Living Quarters building is a rectangular one-story, frame structure with gypsum board exterior and celotex interior walls, and ceiling, and roll roofing on a wood roof. A wood floor is supported on timber joists.							
	Overall Dimensions <u>47' x 184' x 36'</u> <u>70' x 26' x 15'</u>	Volume	26,100 cu.ft.	Area	1,750 sq.ft.			
			23,500 cu.ft.		1,750 sq.ft.			
	Material	Quantity						
	Framing	14,770 f.b.m.						
	Siding	1,255 sq.ft.						
	Sheathing	2,777 sq.ft.						
	Wood Flooring	2,110 sq.ft.						
	Concrete Flooring	1,710 sq.ft.						
	Reinforcing Steel Mesh	2,040 sq.ft.						
	Concrete	67.3 cu.yds.						
	Roofing	42.5 squares						
	Blanket Insulation	1,160 sq.ft.						
	Gypsum Board	1,810 sq.ft.						
	Asbestos Board	3,553 sq.ft.						
	Celotex	2,761 sq.ft.						
	Linoleum	756 sq.ft.						
2713-B	Storesrooms	Each	6		343,202			
2713-B	Storesrooms Equipment	Each	6		2,457			
	2713 - One Storesroom building is provided in each of the two 200 Areas. The two buildings are identical, one-story frame structures having concrete and concrete block foundations, reinforced concrete floors, drop siding walls, and tar and gravel roofs. Interior is unfinished except office and wash rooms.				343,202			
	2713-A - One Essential Material Storehouse is provided in each of the two 200 Areas. These former TO buildings are one-story post and girder structures having wood posts on wood sills, wood floors and rolled roofing on sheathing roofs. 2713-B has gypsum board walls and 2713-A has rolled roofing over sheathing walls.							
	2713-BW - One Miscellaneous Storehouse is provided in the 200 W Area only. It is a Butler Sheetmetal Igloo type hut with a 2" plank floor laid on 4" x 4" sleepers.							
	2713-BE - This Storehouse in the 200 E Area is similar in construction to 2713-A Storehouses.							
2713	Overall Dimensions <u>17' x 54' x 15'</u>	Volume	18,600 cu.ft.	Area	11,158 sq.ft.			
2713-A	9' x 20' x 16'	Volume	226,616 cu.ft.	Area	19,714 sq.ft.			
2713-BW	11' x 15' x 20'-6"	Volume	99,000 cu.ft.	Area	6,350 sq.ft.			
2713-BE	6' x 17' x 14'	Volume	157,700 cu.ft.	Area	11,268 sq.ft.			
	Material	Unit	Quantity					
	Framing	f.b.m.	2713-A 10.723	2713-BW 57.000	2713-BE 47.000			
	Siding	sq.ft.	3,144					
	Sheathing	sq.ft.	7,384	21,000 ft = 28,500 fms				
	Concrete Flooring	sq.ft.	4,160					
	Concrete	cu.yds.	61.6					
	Concrete Blocks	blocks	873					
	Roofing	squares	168	1n9	261			
	Celotex Insulation	sq.ft.	168					
	Preswood Board	sq.ft.	1,744	40,000	40,000	14,500		
	Wood Flooring	f.b.m.		40,000				
	Gypsum Board	sq.ft.		7,200				
	Metal Gutters			1				

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**PROJECT COST SUMMARY ... MILITARY FUNDS**  
**-FINAL DETAIL COST STATEMENT...**

REPORTING OFFICE..... RAPID CITY WORKS PROJECT DESCRIPTION PLUTONIUM PRODUCTION PLANT  
 MONTH ENDING 31 DECEMBER 1946

CODE NO.	DESCRIPTION	ACCOUNT	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
				ACTUAL	ACTUAL			ACTUAL	ACTUAL
2715-B 2715-E	200 AREA ADMINISTRATIVE BUILDINGS AND EQUIPMENT (Continued):  Oil & Paint Storage Building Oil & Paint Storage Building Equipment			Each	2	12,617		6,308	
	One Oil and Paint Storage Building is provided in each of the two 200 Areas. Buildings are identical, one-story, frame structures. Foundation and partition are concrete block; floor is reinforced concrete; walls are drop-siding on sheathing, and roof is built up tar and gravel on wood.			Each	2	1,798		649	
	Overall Dimensions 42' x 14' x 18'	Volume 10,584 cu.ft.	Area 546 sq.ft.						
	Material	Quantity							
	Framing	1,724 f.b.m.							
	Siding	1,420 sq.ft.							
	Sheathing	1,400 sq.ft.							
	Concrete Flooring	570 sq.ft.							
	Concrete	1.4 cu.yds.							
	Concrete Blocks	647 blocks							
	Roofing	5.7 squares							
2716-B 2716-E	Automotive Repair Garages Automotive Repair Garages Equipment			Each	2	15,952		17,076	
	One Automotive Repair Garage is provided in both the 200 E and 200 W Areas. Both buildings were built for construction purposes, but were retained for permanent building. Construction is one-story, wood frame with gypsum board exterior and rolled roofing. Floor is plain concrete as are 6' door aprons and garage pits.			Each	2	717		358	
	Overall Dimensions 46' x 40' x 18'-6"	Volume 72,400 cu.ft.	Area 1,200 sq.ft.						
	Material	Quantity							
	Lumber	16,500 f.b.m.							
	Concrete	110 cu.yds.							
	Gypsum Board	4,600 sq.ft.							
	Roofing	10.13 squares							
2719-B 2719-E	First Aid Building First Aid Building Equipment			Each	2	17,508		15,804	
	One First Aid Building has been provided in each of the two 200 Areas. This rectangular shaped, one-story, frame building has concrete and concrete block foundations, reinforced concrete floor with asphalt tile surface, drop-siding on sheathing walls and felt covered roof. Partitions are lined on one side with preswood and the ceiling with gypsum board. A waiting room has been added. This rectangular shaped, frame building has wood floor and is supported on timber skids.			Each	2	1,146		1,693	
	Overall Dimensions 32' x 26' x 18' 26' x 16' x 12'	Volume 17,760 cu.ft. 4,616 cu.ft.	Area 215 sq.ft. 396 sq.ft.						
	Material	Quantity							
	Framing	First Aid Bldg.	Waiting Room						
	Siding	4,117 f.b.m.	1,470 f.b.m.						
	Sheathing	1,160 sq.ft.	640 sq.ft.						
	Flooring - Concrete	2,140 sq.ft.	1,024 sq.ft.						
	Flooring - Wood T & G	746 sq.ft.	348 sq.ft.						
	Concrete	18 cu.yds.							
	Concrete Block	300 blocks							
	Roofing	10 squares	5.4 squares						
	Preswood Board	2,347 sq.ft.							
	Gypsum Board	701 sq.ft.	1,024 sq.ft.						
	Ashphalt Tile	58 sq.yds.							
2720-B 2720-E	Patrol Headquarters Patrol Headquarters Equipment			Each	2	46,260		32,630	
	One Patrol Headquarters building is provided in each of the two 200 Areas. These rectangular shaped, one-story, frame buildings are identical. Foundation is concrete and concrete block; floor is reinforced concrete; walls are drop-siding on sheathing and roof is built-up tar and gravel on wood. Walls are unlined and partitions lined one side only with preswood and asbestos board.			Each	2	4,370		2,315	
	Overall Dimensions 75' x 32' x 18'	Volume 37,420 cu.ft.	Area 252 sq.ft.						
	Material	Quantity							
	Framing	14,000 f.b.m.							
	Siding	2,808 sq.ft.							
	Sheathing	5,012 sq.ft.							
	Concrete Flooring	2,144 sq.ft.							
	Concrete	45.3 cu.yds.							
	Concrete Block	740 blocks							
	Roofing	22.1 squares							
	Preswood Board	3,600 sq.ft.							
	Asbestos Board	1,100 sq.ft.							

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**PROJECT COST SUMMARY - MILITARY FUNDS**  
**-FINAL DETAIL COST STATEMENT-**

REPORTING OFFICE HANFORD ENGINEERS WESPROJECT DESCRIPTION PLUTONIUM PRODUCTION PLANTMONTH ENDING 31 DECEMBER 1946

CODE NO.	DESCRIPTION	ACCOUNT	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
				ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
200-Area Administ Active Buildings And Equipment (Continued)									
2722-B 2722-E	Area Shops Area Shop's Equipment		Each	2	2	10,119 1,742		2,000 1,301	
	One Area Shops building is provided in each of the two 200-Areas - E & W. These identical, rectangular shaped, one-story, frame structures are divided by a concrete block wall into a Rigor's Loft and a main Store Room. Foundations are concrete and concrete block; floor is reinforced concrete; walls are steel-siding over sheathing; and flat roof is wood with built-up tar and gravel surface.								
	Overall Dimensions 41' x 31' x 18'	Volume 14,000 cu.ft.	Area 1,800 sq.ft.						
	Material	Quantity							
	Framing	1,111 f.b.m.							
	Siding	1,340 sq.ft.							
	Sheathing	1,740 sq.ft.							
	Concrete Flooring	1,000 sq.ft.							
	Concrete Blocks	400 blocks							
	Roofing	12 squares							
	Presidwood Board	1,340 sq.ft.							
2723-B 2723-E	Laundry Laundry Equipment		Each	1	1	61,82 14,406		61,82 34,406	
	One Laundry Building is provided in the 200 W Area only. This building consists of a one-story wood frame construction and contains laundry and shoe repair facilities. The building contains a total of 12 rooms, including: Wash Room, Pressing Room, Laundry Storage, Receiving Room, Shoe Repair Room, Shower and Locker Room, etc.. Foundation is a 8" plain concrete and concrete piers with spread footing for immediate column support. Walls are of 1" T. & G. sheathing and drop siding, with building over insulation between. Inside walls are lined and sealed with 1/16" asbestos board.								
	Overall Dimensions 40' x 24' x 18'	Volume 78,184 cu.ft.	Area 2,127 sq.ft.						
	Material	Quantity							
	Lumber (Framing)	1,400 f.b.m.							
	(Siding)	1,240 f.b.m.							
	(Sheathing & Decking)	9,500 f.b.m.							
	Concrete	79 cu.yds.							
	Roofing (built-up)	19.64 sq.m.							
	Asbestos Board 1/16"	2,400 sq.ft.							
2729	Extra Machinery storehouse		Each	1		40,172		40,172	
	This building consists of a one-story wood frame, shed roof, warehouse and tool room originally built for construction purposes but taken over by Operation as an extra Machinery Storehouse. Type of construction is as follows: Post and girder construction with columns set on wood sets; 8" plank floor laid on 1" x 6 sleepers 4" on center; outside building walls and roof are covered with rolled roofing over 1" T. & G. sheathing; celotex interior linings. A wood platform runs along the long side.								
	Overall Dimension 100' x 17' x 17'	Volume 17,474 cu.ft.	Area 1,792 sq.ft.						
	Material	Quantity (17' x 17')							
	Lumber (Framing)	7,000 f.b.m.							
	(Flooring)	1,000 f.b.m.							
	(Sheathing & Decking)	14,000 f.b.m.							
	Roll Roofing	177.44 sq.m.							
	Celotex 4"	1,440 sq.ft.							
2730-E	Slab Yard		Each	1		100,813		100,813	
	One Slab Yard is provided in the 200 W Area. This building consists of large concrete slabs, open end gable roof buildings and outside pits. This Slab Yard was used by Construction for the fabrication of concrete cell block covers and taken over by Operation to be used for the storage of salvage material and equipment in the 200-W Area.								
	Construction consists of 8" thick, 20' wide and varying in length from 400 ft. to 450 ft. concrete mixed concrete (6 approx.). The concrete poured in 15' sections with mastic joints between sections and each strip separated by three parallel standard gauge railroad tracks serving tracks serving this area. The two large buildings are of open end type with wood frame gable roof. The outside pits are reinforced concrete throughout with structural steel framework supporting the rail over the pit section.								
	Dimensions	Volume	Area						
	Slabs (6)	30' x 12' x 8"	360,000 cu.ft.						
		2 - 20' x 50' x 8"	20,000 cu.ft.						
		2 - 20' x 40' x 8"	20,000 cu.ft.						
		2 - 20' x 45' x 8"	25,000 cu.ft.						
	Paint Sids.	2 - 20' x 15' x 18'	38,712 cu.ft.	1,200 sq.ft.					
	Pits	2 - 80' x 12' x 4'	7,472 cu.ft.	1,200 sq.ft.					
	Material	Quantity							
	Lumber (Framing)	10,000 f.b.m.							

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**PROJECT COST SUMMARY --- MILITARY FUNDS**  
**--FINAL DETAIL COST STATEMENT--**

REPORTING OFFICE ~~WYOMING ENGINEER WORKS~~ PROJECT DESCRIPTION ~~PLUTONIUM PRODUCTION PLANT~~  
 MONTH ENDING ~~31 DECEMBER 1946~~

ITEM NO.	ACCOUNT DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS	UNIT COSTS
			STANDARD	ACTUAL		
2730	Slab Yard (Continued)					
	Material	Quantity				
	(Sheathing & Decking)	f.b.m.				
	Concrete	1,460 cu.yds.				
	Reinforcing Steel	3.0 tons				
	Reinforcing Mesh	40,000 sq.ft.				
	Edging Roll	17.4 cu.yds.				
	Siding Tar Paper	27.0 sqms.				
	Concrete Block (44 x 84 x 16")	1,000				
2731	Burning Pit					
	An Open Pit approximately 10 x 20 x 10 ft. deep having 1 m. side slopes and a 1-ft wide ramped access road was formerly dug and used by construction for burning scrap lumber and waste materials. This pit is located at the NW corner of the intersection of Third and E Street in the 200-E Area. It was originally constructed in Cost Code C-15, and was taken over by Operation at the close of construction for similar usage. Therefore, it has been assigned permanent building number 2731.	Each	1		1,400	1,400
	Overall Dimensions	Volume				
	10' x 20' x 10'	40,000 cu.ft.				
	Material	Area				
	Excavation	2,100 sq.ft. (approx.)				
2734	Gas Cylinder Storage					
	One Gas Cylinder Storage Building is provided in each of the two 200 Areas E & W. These identical, one-story, frame structures with over handing roof have four storage spaces. The foundation is concrete; the floor, reinforced concrete; the walls are sheathing, open top and bottom, and the roof is wood with tar and gravel surface.	Each	2		7,092	3,549
	Overall Dimensions	Volume				
	16' x 16' x 12'	2,400 cu.ft.				
	Material	Quantity				
	Framing	33 f.b.m.				
	Sheathing	29 sq.ft.				
	Concrete Flooring	740 sq.ft.				
	Concrete	10 cu.yds.				
	Reinforcing Steel Mesh	40 sq.ft.				
	Roofing	1.5 squares				
2741-B	Gate House & Guard Tower Building					
2741-B	Gate House & Guard Tower Building Equipment	Each	1		19,475	4,869
	Four Gate House and Guard Tower Buildings are provided; one each at the N, S, E and W Plants of the 200-E North Area. This building is two story, wood frame, ent house type with concrete foundation and first floor, and wood second floor. Exterior walls are drop-siding; interior linings and ceiling are asbestos board; and roofing is built-in type.	Each	1		1,925	481
	Overall Dimensions	Volume				
	16' x 16' x 12' x 21'	1,170 cu.ft.				
	Material	Quantity				
	Framing	1,200 f.b.m.				
	Siding	400 f.b.m.				
	Floor	50 f.b.m.				
	Sheathing and Decking	100 f.b.m.				
	Concrete	2.0 cu.yds.				
	Roofing	1.4 squares				
	Asbestos Board	200 sq.ft.				
	Sub-Total				1,171,306	
	TOTAL 200-A-E BUILDINGS AND EQUIPMENT				70,014,996	

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**PROJECT COST SUMMARY - MILITARY FUNDS**  
**-FINAL DETAIL COST STATEMENT-**

REPORTING OFFICE BANFORD ENGINEERS PROJECT DESCRIPTION PLUTONIUM PRODUCTION PLANT  
 MONTH ENDING 31 DECEMBER 1946

CCDE NC	ACCOUNT DESCRIPTION	UNIT OF MEASURE	TOTAL COSTS		UNIT COSTS ACTUAL			
			QUANTITIES ACTUAL	ACTUAL				
<b>300 AREA BUILDINGS AND EQUIPMENT:</b>								
<b>300 AREA MANUFACTURING BUILDING AND EQUIPMENT:</b>								
301	Storage and Fabrication Building One Storage and fabrication Building is provided in the 300 Area. This one-story, one-room, frame building has a reinforced concrete foundation and floor. Walls are drop-siding and roof is sheeting covered with built-up roofing with tar and gravel surface.	Each	1	12,487	12,487			
	Overall Dimensions      Volume      Area 30' x 30' x 17'      21,812 cu.ft.      1,235 sq.ft.							
	Material      Quantity							
	Framing      1,340 lbs.							
	Siding      1,340 lbs.							
	Sheeting      1,235 sq.ft.							
	Concrete      22.8 cu.yds.							
	Concrete Flooring      1,235 sq.ft.							
	Reinforcing Steel Mesh      1,440 sq.ft.							
	Roofing      12.4 squares							
303-E	Fresh Metal Storage	Each	0	127,568	14,174			
303-E	Fresh Metal Storage Equipment	Each	0	1,674	186			
	Nine Fresh Metal Storage buildings in two types are provided in the 300 Area. 303 A, B, C, D, E, F, G, and I - Eight of the buildings are identical in size, shape and design. These one-story, one-room, rectangular shaped buildings consist of reinforced concrete foundations, floors and roofs and concrete block walls. The roof is tar and gravel surfaced and the doors are metal covered. 303-J - Only one of the frame type of building is provided. This one-story, one-room, building consists of reinforced concrete foundation and floor, drop-siding walls, and built-up felt roofing on sheeting.							
	Overall Dimensions      Volume      Area 45' x 27' x 13'      17,500 cu.ft.      1,116 sq.ft. 64' x 41' x 27'      61,776 cu.ft.      2,656 sq.ft.							
	Material      Quantity							
	A, B, C, D, E, F, G, K, J      377 cu.ft.							
	Framing      5,470 lbs.							
	Siding      5,040 lbs.							
	Sheeting      8,162 lbs.							
	Concrete      79 cu.yds.							
	Concrete Fl. rings      1,210 sq.ft.							
	Reinforcing Steel Mesh      2,260 sq.ft.							
	Concrete Blocks      12 blocks							
	Roofing      13.6 squares							
304	Chemical Storage Building	Each	1	1,060	1,060			
	One Chemical Storage building was provided and later demolished. Construction was concrete block foundations and walls and reinforced concrete floor and roof.							
	Overall Dimensions      Volume      Area 8' x 6' x 8'      148 cu.ft.      72 sq.ft.							
306-E	File Building	Each	1	2,017	200,675			
306-E	File Building Equipment	Each	1	824	437			
	The File Building is provided in the 300 Area. The building is steel framed throughout; walls and partitions are concrete block; roof is pre-cast tile with built up felt surface; floor is reinforced concrete set in concrete foundations. Within the building is a concrete inclosed graphite pile 2'-3" x 2"-2" x 24"-6". The graphite section is approximately an 1" cube.							
	Overall Dimensions      Volume      Area 163' x 67' x 51'      243,000 cu.ft.      7,000 sq.ft.							
	Material      Quantity							
	Structural Steel      110 tons							
	Concrete      1,042 cu.yds.							
	Concrete Blocks      14,200 blocks							
	Roofing      102 squares							
313-E	Metal Fabrication Building	Each	1	374,20	374,220			
313-E	Metal Fabrication Building Equipment	Each	1	1,316,944	1,316,944			
	One Metal Fabrication Building is provided in the 300 Area. This one-story, thick-set, T-shaped structure consists of a reinforced concrete foundation and floor, structural steel frame, concrete block wall, and a pre-set concrete slab roof with tar and gravel surface. Interior partitions are concrete block and concrete brick.							
	Overall Dimensions      Volume      Area 10' x 18' x 20'      609,700 cu.ft.      35,020 sq.ft.							
	Material      Quantity							
	Structural Steel      66 tons							
	Reinforcing Steel Bars      14 tons							
	Reinforcing Steel Mesh      22,000 sq.ft.							
	Concrete      1,087 cu.yds.							
	Concrete Blocks      21,050 blocks							
	Concrete Bricks      20,000 bricks							

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**PROJECT COST SUMMARY - MILITARY FUNDS**  
**-FINAL DETAIL COST STATEMENT-**

REPORTING OFFICE HANFORD ENGINEERSPROJECT DESCRIPTION PLUTONIUM PRODUCTION PLANTMONTH ENDING 31 DECEMBER 1945

CODE NO.	DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
			ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
314-E	300 AREA MANUFACTURING BUILDING AND EQUIPMENT (continued):							
314-E	Press Building	Each	1		154,56		154,56	
314-E	Press Building Equipment	Each	1		1,747,367		1,747,367	
	One Press Building is provided in the 300 Area. This one-story, gable roof building consists of reinforced concrete foundation and floor, structural steel framework, concrete block walls, and corrugated asbestos roof. A 36' continuous roof ventilator extends nearly the full length along the gables. Control Room walls are of asbestos board.							
	Overall Dimensions      Volume      Area							
	120' x 80' x 40'      475,550 cu.ft.      14,842 sq.ft.							
	Material      Quantity							
	Structural Steel      123.2 tons							
	Reinforcing Steel Bars      3.6 tons							
	Reinforcing Steel Mesh      21,000 sq.ft.							
	Concrete Flooring      15,000 sq.ft.							
	Concrete      400 cu.yds.							
	Concrete Blocks      24,000 blocks							
	Framing      176 ft.h.m.							
	Transite Roofing      160 squares							
	3/16" asbestos Board      300 sq.ft.							
318	Process Waste Disposal Trench	Each	1		1,328		1,328	
	One Process Waste Disposal Trench is provided in the 300 Area. This facility consists of V shaped ditch, service road, and fence.							
	Dimensions      Volume      Area							
	163' x 260'      12,800 cu.ft.      3,200 sq.ft.							
	Material      Quantity							
	Lumber      2,000 ft.l.m.							
	Arcor Pipe - 6"				1,600 ft.			
	Bent Pipe				2,40 ft.			
	Kneivation				476 cu.yds.			
321-E	Separation Building	Each	1		410,968		410,968	
321-E	Separation Building Equipment	Each	1		835,366		835,366	
	One Separation Building is provided in the 300 Area. It is a two-story, partially below grade, reinforced concrete frame, windowless structure, with concrete and concrete block exterior and interior walls. Foundations and floors are reinforced concrete, and also the roof which has a tar and gravel surface. Four large underground steel tanks enclosed with two-layer membranes are completely enclosed in poured concrete are located 120 feet from the building.							
	Overall Dimensions      Volume      Area							
	122' x 47' x 33'      325,500 cu.ft.      10,678 sq.ft.							
	Material      Quantity							
	Reinforcing Steel Bars      100 tons							
	Concrete      2,750 cu.yds.							
	Concrete Blocks      11,300 blocks							
	Acid-proof Bricks      7,700 bricks							
	Roofing Built-up)      104.7 squares							
361-E	Primary Substation	Each	1		6,49		6,49	
361-E	Primary Substation Equipment	Each	1		29,361		29,361	
	The Primary Substations are provided in the 300 Area.							
	361-A - This open frame Substation consists of a single enclosed, gravel surfaced area containing wooden frame bus structures and concrete pads for the transformers. No switch house is provided.							
	361-B - This Substation is similar to 361-A and in addition contains a one-story, one-room Switch house. This structure has reinforced concrete foundation and floor, concrete block walls, and concrete slab roof with tar and gravel surface.							
	Overall Dimensions      Volume      Area							
	361-A Area      6' x 12'				2,000 sq.ft.			
	361-B Area      65' x 58'				3,614 sq.ft.			
	361-B Switchhouse      23' x 11' x 17'				4,386 cu.ft.			
	Material      Quantity							
	Reinforcing Steel Bars      50 tons							
	Concrete Flooring      126 sq.ft.							
	Concrete      1.6 cu.yds.							
	Concrete blocks      45 blocks							
	Roofing      1.3 squares							
363	Transfer Platform	Each	1		878		878	
	One Transfer Platform is provided in the NW Area. This structure consists of a reinforced concrete wall with wing walls, and removable safety rail.							
	Overall Dimensions      Volume      Area							
	43' x 8' x 6'      5.4 cu.ft.      14 sq.ft.							
	Material      Quantity							
	Concrete      4.7 cu.yds.							

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**PROJECT COST SUMMARY - MILITARY FUNDS**  
**-FINAL DETAIL COST STATEMENT-**

REPORTING OFFICE.....PROJECT DESCRIPTION.....MONTH ENDING.....

CODE NO.	DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS	UNIT COSTS
			ACTUAL	ACTUAL		
<b>300 AREA MANUFACTURING BUILDING AND EQUIPMENT (continued):</b>						
302-E	Reservoir and Pump House	Each	1		21,748	21,748
302-E	Reservoir and Pump House Equipment	Each	1		45,403	45,403
	One Reservoir and Pump House is provided in the 300 Area. The Reservoir consists of a pre-stressed concrete circular tank, with a pre-stressed concrete roof having a curvature with a radius of 82'. The Pump House is a one-story two-room structure with reinforced concrete foundation, floor, and roof, and concrete block walls. Roofing surface is tar and gravel.					
	Overall Dimensions Reservoir Pump House	Volume	38,000 cu.ft.	Area	1,720 sq.ft.	
			81' x 138' x 14'		688 sq.ft.	
	Material	Quantity				
	Concrete Flooring	663 sq.ft.				
	Concrete Blocks	1,400 blocks				
	Concrete	4.2 cu.yds.				
	Pre-stressed Concrete	93 cu.yds.				
	Reinforcing Steel Bars	0.9 tons				
304-E	Heating Plant	Each	1		4,287	4,287
304-E	Heating Plant Equipment	Each	1		242,113	242,113
	One Heating Plant is provided in the 300 Area. This rectangular-shaped building has reinforced concrete foundation, floor, and frame. Walls are concrete block and roof is pre-cast concrete supported on structural steel framing and covered with tar and gravel surfacing. A brick stack, 160' high, with 7' dia. top and 15' dia. bottom is supported on a reinforced concrete base. Steel bracing runs from the two boilers to the stack.					
	Overall Dimensions 104' x 418' x 32'	Volume	118,120 cu.ft.	Area	1,776 sq.ft.	
	Material	Quantity				
	Structural Steel	30.7 tons				
	Concrete	317 cu.yds.				
	Concrete Blocks	7,062 blocks				
	Roofing	36 squares				
	Cement Bricks	7,800 bricks				
	Sub-Total				7,084,309	
<b>300 AREA ADMINISTRATIVE BUILDING AND EQUIPMENT:</b>						
3701-E	Gate House	Each	1		24,719	24,719
3701-E	Gate House Equipment	Each	1		23,167	23,167
	One Gate House is provided in the 300 Area. The building, identical with 3701 and 3701, is a two-story frame structure resting on concrete foundations and reinforced concrete floor. First floor walls are unlined, but second floor walls and partitions are lined and ceiling is insulated.					
	Overall Dimensions 41' x 23' x 23'	Volume	18,300 cu.ft.	Area	654 sq.ft.	
3704-E	Supervisor's Office	Each	1		26,624	26,624
3704-E	Supervisor's Office Equipment	Each	1		1,421	1,421
	One Supervisor's Office Building is provided in the 300 Area. This former Construction office building is a one-story, wood frame structure with gypsum board exterior and interior walls, wood floors, and roll roofing.					
	Overall Dimensions 35' x 24' x 15'	Volume	27,600 cu.ft.	Area	2,304 sq.ft.	
3706-E	Laboratory & 3706-A - Air Conditioning Equipment Building	Each	1		460,883	460,883
3706-E	Laboratory & 3706-A - Air Conditioning Equipment Building Equipment	Each	1		807,641	807,641
	One Laboratory and its adjacent Air Conditioning Equipment Building is provided in the 300 Area. The Laboratory is a large, one-story building roughly rectangular in shape and having a center court at one end and an open court at the other. It has a concrete foundation, a concrete floor with mastic tile covering, and frame walls with drop-siding exterior and asbestos board lining. Roof is built up asphalt felt on sheathing supported on wood rafters. Partitions are asbestos board lined both sides. Along one side of this structure is a Laboratory with concrete floor, walls, and roof. The Air Conditioning Equipment Building has a concrete foundation and floor, concrete block walls and partition, and a tar and gravel roof on sheathing supported on wood rafters.					
	Overall Dimensions 52 1/2' x 140' x 23'	Volume	511,700 cu.ft.	Area	30,100 sq.ft.	
	75 1/2' x 24 1/2' x 22'		27,000 cu.ft.		1,800 sq.ft.	
	Material	Quantity				
	3706	3706-A				
	Concrete	1,180 cu.yds.				
	Concrete Blocks	7,280 blocks				
	Reinforcing Steel Bars	4 tons				
	Sheathing	43,700 sq.ft.				
	Gypsum Board	28,280 sq.ft.				
	Asbestos Board	60,400 sq.ft.				
	Mastic Tile Flooring	20,900 sq.ft.				

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**PROJECT COST SUMMARY - MILITARY FUNDS**  
**-FINAL DETAIL COST STATEMENT-**

REPORTING OFFICE ~~JOINTED ENGINEERS~~ PROJECT DESCRIPTION ~~PLUTONIUM PRODUCTION PLANT~~  
 MONTH ENDING ~~31 DECEMBER 1946~~

CODE NO.	ACCOUNT DESCRIPTION	UNIT OF MEASUREMENT	QUANTITIES		TOTAL COSTS		UNIT COSTS	
			ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
3706	Laboratory & 3706-A - Air Conditioning Equipment Building (continued)							
	Material	Quantity						
	Roofing	3706 340 squares	3706-A 15 squares					
	Concrete Flooring		1,500 sq.ft.					
3707-0	Change House							
3707-5	Change House Equipment							
	3707-A - This building is a combined Change House and Patrol Headquarters. It is a rectangular, one-story, wood-frame building having a concrete floor supported on concrete and stone block foundations. Exterior walls are drop-siding and interior has various linings. Roof is tar and gravel on sheathing.							
	3707-B - This building is of same construction.							
	Overall Dimensions	Volume	Area					
3707-A	12' x 38' x 15'	5,370 cu.ft.	3,750 sq.ft.					
3707-B	44' x 16' x 12'	8,448 cu.ft.	734 sq.ft.					
	Material	Quantity						
	Framing	3,777 ft. x						
	Siding	4,160 ft. x						
	Sheeting	4,740 ft. x						
	Concrete Flooring	3,630 sq.ft.						
	Concrete	61 cu.yds.						
	Concrete Blocks	1,014 blocks						
	Roofing	3 squares						
	Freshwood, etc.	4,320 sq.ft.						
3708-0	Fire Headquarters							
3708-5	Fire Headquarters Equipment							
	The Fire Headquarters building is provided in the S.O. Area. The building is similar to 170, and 270 except Truck Storage unit only is provided. This one-story structure with 30' hose drying tower attached has concrete foundations and floors, drop-siding walls and roof with roll roofing.							
	Overall Dimensions	Volume	Area					
	44' x 38' x 14'	12,336 cu.ft.	4,120 sq.ft.					
3713-0	Receiving Storehouse							
3713-5	Receiving Storehouse Equipment							
	The Receiving Storehouse building is provided in the S.O. Area. This one-story, rectangular-shaped, frame building has a concrete and concrete block foundations, concrete floor, drop-siding walls, built-up tar and gravel roof, gypsum lined partitions, and wood beams and posts.							
	Overall Dimensions	Volume	Area					
	12' x 40' x 12'	1,440 cu.ft.	4,120 sq.ft.					
	Material	Quantity						
	Concrete	27 cu.yds.						
	Concrete Siding	4,160 sq.ft.						
	Concrete Block	71 blocks						
	Sheeting	7,620 sq.ft.						
	Roofing	60 squares						
	Freshwood	1,200 sq.ft.						
3718	Fuel Pumps							
	Two gasoline pumps on a concrete island and two underground tanks are provided. These were installed originally for Construction use.							
	Each	1			2,262		2,252	
3717-0	Instrument Shop							
3717-5	Instrument Shop Equipment							
	The Instrument Shop is provided in the S.O. Area. This one-story, frame building is constructed with concrete foundations, concrete floor, drop-siding over sheathing walls, and built-up felt on sheathing n.f.c. Partitions are lined on one side with gypsum board and rooms are ceiled with gypsum board.							
	Overall Dimensions	Volume	Area					
	108' x 413' x 2'	136,100 cu.ft.	4,350 sq.ft.					
	Material	Quantity						
	Concrete	40 cu.yds.						
	Concrete Flooring	4,350 sq.ft.						
	Sheeting	8,170 sq.ft.						
	Freshwood	3,600 sq.ft.						
	Gypsum Board	2,400 sq.ft.						
	Roofing	60 squares						
3719-0	First Aid Building							
3719-5	First Aid Building Equipment							
	The First Aid Building has been provided in the S.O. Area. This rectangular, one-story, frame building has concrete and concrete block foundations, reinforced concrete floor with asphalt tile surface, drop-siding on sheathing walls and felt covered roof. Partitions are lined on one side with gypsum board and the ceiling with gypsum board.							
	Each	1			16,912		16,912	
					2,863			

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**PROJECT COST SUMMARY - MILITARY FUNDS**  
**-FINAL DETAIL COST STATEMENT-**

REPORTING OFFICE ~~BARBERS POINT, HAWAII~~ PROJECT DESCRIPTION ~~PRODUCTION PLANT~~  
 MONTH ENDING ~~31 DECEMBER 1946~~

CODE NO	DESCRIPTION	MEASURE	UNIT OF	QUANTITIES	TOTAL COSTS	UNIT COSTS
			ACTUAL	ACTUAL	ACTUAL	ACTUAL
3719	First Aid Building (continued)					
	First Aid Bldg.	Overall Dimensions 32' x 28' x 19'	Volume 13,268 cu.ft.	Area 816 sq.ft.		
		Material	Quantity			
		Framing	3,117 f.b.m.			
		Siding	1,160 sq.ft.			
		Sheeting	2,340 sq.ft.			
		Flooring - Concrete	826 sq.ft.			
		Concrete	14 cu.yds.			
		Concrete Block	360 blocks			
		Roofing	10 squares			
		Freedwood Board	2,367 sq.ft.			
		Gypsum Board	701 sq.ft.			
		Asphalt Tile	88 sq.yds.			
3722-E	Area Shops					
3722-E	Area Shops Equipment					
		Two Area Shops are provided in the 300 Area.				
		3722 - This one-story, frame structure has concrete foundations and floor, drop-siding over sheathing walls, and built up felt roof on wooden trusses. The interior partitions and ceiling are lined with both freedwood and asbestos board.				
		3722-A - This building is of temporary construction design. Acid frame on wood mud sills, plank flooring, gypsum board exterior walls, and roll roofing over sheathing.				
		Overall Dimensions 120' x 41' x 21' 80' x 160' x 12'	Volume 117,500 cu.ft. 163,600 cu.ft.	Area 4,80 sq.ft. 12,800 sq.ft.		
		Material	Quantity			
		Concrete	164 cu.yds.			
		Reinforcing Steel Mesh	4,000 sq.ft.			
		Reinforcing Steel Bars	0.3 tons			
		Concrete Flooring	4,800 sq.ft.			
		Siding	3,500 f.b.m.			
		Sheeting	1,560 sq.ft.			
		Freedwood	2,400 sq.ft.			
		Asbestos Board	800 sq.ft.			
		Roofing	87.6 squares			
3726-E	Propane Storage Building					
3726-E	Propane Storage Equipment					
		The Propane Storage Building is provided in the 300 Area. This is a wood frame open side gate roof structure supported by six wooden posts on concrete piers. A 2,000 gallon capacity metal tank is supported on concrete piers.				
		Overall Dimensions 30' x 138' x 148'	Volume 6,200 cu.ft.	Area 406 sq.ft.		
		Material	Quantity			
		Framing	1,076 f.b.m.			
		Siding	140 f.b.m.			
		Sheeting	40 f.b.m.			
		Concrete	5 cu.yds.			
		Roofing	4.8 squares			
3734	Cylinder Storage Building					
		The Cylinder Storage buildings are provided in the 300 Areas.				
		3734 is a one-story, frame structure divided into four storage spaces. The foundation is a concrete; the floor reinforced concrete walls are sheathing, open top and bottom, and the overhanging roof is wood with tar and gravel surface.				
		3734-A is a one room, one-story frame structure with concrete foundations, reinforced concrete floor and loading platform 3'-0" above grade T and G utility walls, open top and bottom and built-up felt on sheathing overhanging roof.				
		Overall Dimensions 25' x 10' x 12' 30' x 26' x 14'	Volume 7,760 cu.ft. 10,20 cu.ft.	Area 245 sq.ft. 760 sq.ft.		
		Material	Quantity			
		3734	3734-A			
		Framing	337 f.b.m.			
		Sheeting	93 sq.ft.			
		Siding	636 f.b.m.			
		Concrete Flooring	140 sq.ft.			
		Concrete	10 cu.yds.			
		Reinforcing Steel Bars	0.6 tons			
		Reinforcing Steel Mesh	646 sq.ft.			
		Roofing	3.5 squares			
3741	Box Storage Building					
		The Box Storage building is provided in the 300 Areas. This building is one-story, one-room, flat roofed and wood frame. The floor is reinforced concrete on concrete foundations. Exterior walls are drop-siding over sheathing and the roof is tar and gravel on sheathing supported on wood frames.				
		Each	1		6,276	6,276

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**PROJECT COST SUMMARY -- MILITARY FUNDS**  
**--FINAL DETAIL COST STATEMENT--**

REPORTING OFFICE.....~~MAILED AND FILED~~..... PROJECT DESCRIPTION.....~~PRODUCTION PLANT~~  
 MONTH ENDING.....~~31 DECEMBER 1946~~.....

CODE NO.	DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS
			ACTUAL	ACTUAL	ACTUAL	ACTUAL	
3741	Bom Storage Building (continued)						
	Overall Dimensions 30' x 14' x 16'	Volume 7,015 cu.ft.	Area 132 sq.ft.				
	Material	Quantity					
	Concrete	7 cu.yds.					
	Concrete Flocing	420 sq.ft.					
	Reinforcing Steel Bars	420 sq.ft.					
	Sheeting	1,6-0 ft.brs.					
	Roofing	4.2 squares					
3746-B	Standards Building	Each	1		61,171		61,171
3746-E	Standards Building Equipment	Each	1		30,077		30,077
	The Standards Building is provided in the 300 Areas. This two-story, wooden frame, multiple gable roof structure is roughly rectangular. The foundation is concrete; the first floor is reinforced concrete. The North end of the building has walls and roof of Robertsons insulated "C" panel board. The South portion has drop siding over sheathing walls and built-up felt over sheathing roofs. Interior partitions are asbestos except those around the laboratories are reinforced concrete. Attached to the South end is a vault of reinforced concrete construction throughout.						
	Overall Dimensions 37' x 38' x 40'	Volume 86,400 cu.ft.	Area 3,370 sq.ft.				
	Material	Quantity					
	Siding	3,700 ft.brs.					
	Sheeting	7,600 ft.brs.					
	Barn Boards	210 sq.ft.					
	Robertson's Insulated "C" Panel	84,2,160 sq.ft.					
	Asbestos Board	1,310 sq.ft.					
	Roofing (Built-up)	37 squares					
	Concrete Flocing	3,370 sq.ft.					
	Concrete	230 cu.yds.					
	Reinforcing Steel Bars	5 tons					
3746-E	Control Building	Each	1		35,735		35,735
3746-E	Control Building Equipment	Each	1		13,147		13,147
	The Control building is provided in the 300 Areas. This one-story, wood frame building has reinforced concrete foundation and floor, the latter being covered with ceramic tile. The walls are drop-siding over sheathing and the roof is built-up felt on sheathing. Partitions are lined with asbestos board and ceilings with gypsum boards.						
	Overall Dimensions 72' x 30' x 21'	Volume 37,600 cu.ft.	Area 2,211 sq.ft.				
	Material	Quantity					
	Fraining	1,800 ft.brs.					
	Siding	1,530 sq.ft.					
	Sheeting	47.6 cu.yds.					
	Concrete Flocing	2,200 sq.ft.					
	Reinforcing Steel Bars	0.6 tons					
	Asbestos Board	5,130 sq.ft.					
	Gypsum Board	2,200 sq.ft.					
	Mastic Tile	2,200 sq.ft.					
	Roofing (Built-up)	24.6 squares					
	Sub-Total				2,178,403		
	TOTAL 300 AREA BUILDING AND EQUIPMENT					2,164,732	
	TOTAL PLANT BUILDING AND EQUIPMENT					2,0,231,786	

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**PROJECT COST SUMMARY... MILITARY FUNDS**  
**-FINAL DETAIL COST STATEMENT...**

REPORTING OFFICE HANFORD ENGINEER WORKS PROJECT DESCRIPTION PLUTONIUM PRODUCTION PLANT  
 MONTH ENDING 31 DECEMBER 1946

CLOSER No.	ACCOUNT  DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS			
			ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL		
<b>GENERAL ADMINISTRATIVE AND MAINTENANCE FACILITIES BUILDINGS AND EQUIPMENT:</b>										
700 AREA BUILDINGS AND EQUIPMENT:										
701-B 701-E	Date House Date House Equipment One Date House is provided in the 700 Area. It is a one-story wood frame, shed roof structure with concrete foundation walls and floor. Walls are drop-siding over sheathing and roof is built-up felt over sheathing. Walls are lined with gypsum board and ceilings with Masonite.	Each Each	1 1		4,479 76,399		4,479 76,399			
	Overall Dimensions 17' 4" x 14'	Volume 9,260 cu.ft.	Area 40 sq. ft.							
	Material	Quantity								
	Lumber	3,180 f.b.m.								
	Siding	1,160 sq.ft.								
	Concrete	19 cu.ft.								
	Concrete Flooring	560 sq.ft.								
	Masonry	14,400 sq.ft.								
	Gypsum Board	6,060 sq.ft.								
	Roofing	7 squares								
702-B 702-E	Telephone Building Telephone Building Equipment One Telephone Building is provided in the 700 Area. This building is a one-story, "L" shaped structure having a reinforced concrete foundation and floor. The precast reinforced concrete slab roof is covered with 1" insulation board and built-up roofing. Walls and partitions are concrete block. In the Switchboard Room the floor is linoleum covered and ceiling is fibraacoustic lined.	Each Each	1 1		74,569 16,776		74,569 16,776			
	Overall Dimensions 85' x 62' x 18'	Volume 74,600 cu.ft.	Area 4,145 sq.ft.							
	Material	Quantity								
	Concrete	150 cu.yds.								
	Reinforcing Steel Bars	19.5 tons								
	Reinforcing Steel Mesh	4,145 sq.ft.								
	Concrete	6,660 blocks								
	Concrete Flooring	4,145 sq.ft.								
	Insulation Board	3,780 sq.ft.								
	Linoleum	193 sq.yds.								
	Fibraacoustic Lining	1,740 sq.ft.								
	Roofing	41.5 squares								
703-B 703-E	Administration Building Administration Building Equipment One Administration Building is provided in the 700 Area. This building is a large two-story, wooden frame, gable roof structure with six eaves, and a central corridor. One two-story concrete and concrete block vault is located on either side of the building. The foundations are concrete and concrete block. Outside walls are drop-siding over sheathing, and roof is built-up asphalt felt over sheathing. Floors are wood with linoleum covering in toilets only. Wall linings are of prewood and ceilings are of gypsum board. Two brick firewalls separate the building. The two vaults have reinforced concrete foundations, floor, and roof and concrete brick walls. Two enclosed passageways to each vault are provided.	Each Each	1 1		389,573 25,623		389,573 25,623			
	Overall Dimensions 159' x 205' x 37'	Volume 1,110,000 cu.ft.	Area 36,600 sq.ft.							
	Material	Quantity								
	Concrete	230 cu.yds.								
	Concrete Block	6,200 blocks								
	Cement Bricks	50,500 bricks								
	Lumber	20,000 f.b.m.								
	Siding	32,100 sq.ft.								
	Sheathing	143,600 sq.ft.								
	Linoleum	340 sq.yds.								
	Prewood	62,500 sq.ft.								
	Wood Flooring	72,000 sq.ft.								
	Gypsum Board	72,000 sq.ft.								
	Roofing	303 squares								
704	Supervisors' Office One Supervisors' Office building is provided in the 700 Area. This is a one-story frame building with drop-siding on sheathing on exterior of walls and asbestos board and gypsum board on interior. The roof is built up asphalt felt over sheathing. Foundation and floor are concrete.	Each	1		9,890		9,890			
	Overall Dimensions 34' 6" x 61' 3" x 16' 6"	Volume 35,013 cu.ft.	Area 2,122 sq.ft.							
	Material	Quantity								
	Lumber	700 f.b.m.								
	Drop Siding	2,040 sq.ft.								
	Concrete	60 cu.yds.								
	Asbestos Board	5,475 sq.ft.								
	Gypsum Board	1,868 sq.ft.								
	Roofing	13 squares								

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**PROJECT COST SUMMARY - MILITARY FUNDS**  
**-FINAL DETAIL COST STATEMENT-**

REPORTING OFFICE..... PROJECT DESCRIPTION..... PLUTONIUM PRODUCTION PLANT  
 HANFORD ENGINEERING WORKS

MONTH ENDING.....

31 DECEMBER 1946

CODE NO.	ACCOUNT	DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
				ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
705-B	700 AREA BUILDINGS AND EQUIPMENT (CONTINUED):								
705-E	Employment Building Equipment	The Employment Building is provided in the 700 Area. This is an "L" shaped, one-story, wood frame, gable roof structure. Foundations are concrete and concrete block. Floors are wood, with linoleum covering in toilets only. Outside walls are drop-siding over sheathing, and interior linings are sheet rock and plaster. The roof is built-up felt on sheathing.	Each	1	1	45,774	14,639	45,774	14,639
	Overall Dimensions	Volume	Area						
	134' x 131' x 26'	198,400 cu.ft.	7,700 sq.ft.						
	Material	Quantity							
	Lumber	46,100 f.b.m.							
	Drop Siding	6,500 sq.ft.							
	Concrete	24 cu.yds.							
	Concrete Blocks	7,800 blocks							
	Sheet Rock Wallboard	11,811 sq.ft.							
	Plaster	7,775 sq.ft.							
	Linoleum	160 sq.yds.							
	Roofing	82 squares							
706-B	Laboratory Equipment	The Laboratory building is provided in the 700 Area. This one-story, wood frame building has a reinforced concrete foundation and floor, drop-siding over sheathing walls, and built-up felt on sheathing roof. The interior linings are of masonite and ceilings are of gypsum board.	Each	1	1	25,309	35,529	25,309	35,529
706-E	Overall Dimensions	Volume	Area						
	48' x 28' x 25'	44,360 cu.ft.	2,158 sq.ft.						
	Material	Quantity							
	Framing	4,120 f.b.m.							
	Siding	2,040 f.b.m.							
	Sheathing	4,560 f.b.m.							
	Concrete Flooring	2,150 sq.ft.							
	Reinforcing Steel Mesh	2,210 sq.ft.							
	Concrete	48 cu.yds.							
	Blanket Insulation	2,210 sq.ft.							
	Masonite Board	3,450 sq.ft.							
	Gypsum Board	2,040 sq.ft.							
	Asphalt Tile	227 sq.yds.							
	Roofing	26 squares							
707-B	Change House								
707-E	Change House Equipment	The Change House is provided in the 700 Area. This building is a wooden frame one-story structure with concrete foundation and floor, drop siding over sheathing walls, and built-up gravel surfaced roofing over sheathing. Wall and partition linings are masonite and asbestos board.	Each	1	1	21,497	1,807	21,497	1,807
	Overall Dimensions	Volume	Area						
	30' x 79' x 20'	46,620 cu.ft.	2,636 sq.ft.						
	Material	Quantity							
	Lumber	9,092 f.b.m.							
	Siding	2,825 sq.ft.							
	Concrete	79 cu.yds.							
	Masonite	2,640 sq.ft.							
	Asbestos Board	2,376 sq.ft.							
	Roofing	25 squares							
712-B	Permanent Record Storage Building								
712-E	Permanent Record Storage Building Equipment	Two Permanent Record Storage Buildings are provided in the 700 Area adjacent to the Administration Building. Each building is a long metal hutment supported on a concrete floor with thickened edges.	Each	2	2	44,543	6,774	22,271	3,887
	Overall Dimensions	Volume	Area						
	27' x 21'-9" x 12'-3"	52,400 cu.ft.	6,000 sq.ft.						
	Material	Quantity (One-bldg.)							
	Concrete Flooring	6,000 sq.ft.							
	Hutment	1 (276' long)							
713-B	Store Room								
713-E	Store Room Equipment	Two Store Rooms are provided in the 700 Area: 713 - Central Receiving Storeroom, and 713-A - Laboratory Storeroom.	Each	2	2	99,000	32,592	49,500	16,296
	713 - This building is a one-story, wood frame structure with concrete foundation and floor. Exterior walls are drop-siding over sheathing, and roof is built-up on sheathing. Interior walls and partitions are lined with masonite except asbestos board is installed in toilet rooms. Gypsum board is installed on ceilings of two private offices and women's rest room.								
	713-A - This one-story building is of similar construction. In one corner is a solvent storage room with concrete roof and concrete block walls. Concrete loading platforms are attached to both buildings.								

PROJECT COST SUMMARY ... MILITARY FUNDS  
... FINAL DETAIL COST STATEMENT ...

## REPORTING OFFICE

HANCOCK ENGINE WORKS

## PROJECT DESCRIPTION

#### **PLUTONIUM PRODUCTION PLATE**

## MONTH ENDING

31 DECEMBER 1946

MONTH ENDING..... 31 DECEMBER 1946

CODE No.	ACCOUNT	DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
				ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
713	Store Rooms (Continued)								
	Overall Dimensions	Volume	Area						
713	40' x 220' x 25'	422,400 cu.ft.	17,600 sq.ft.						
713-A	40' x 104' x 30'	10,400 cu.ft.	4,160 sq.ft.						
	Material	Quantity							
	Lumber	713	713-A						
	Drop Siding	18,314 f.b.m.	15,424 f.b.m.						
	Concrete	9,600 sq.ft.	3,264 sq.ft.						
	Concrete Blocks	330 cu.yds.	125 cu.yds.						
	Asbestos Board	2,160 sq.ft.	3,810 sq.ft.						
	Gypsum Board	580 sq.ft.	3,960 sq.ft.						
	Masonite	10,480 sq.ft.							
	Blanket Insulation		3,960 sq.ft.						
	Roofing	176 squares	40 squares						
714	Material Shed								
	One Material Shed is provided in the 700 Area. The building is a wood-frame, post and girder structure on concrete foundation walls, footings, and frost walls. Roof is sheathing covered with built up roofing. (ffices has drop siding exterior and asbestos board interior walls and a concrete floor. The two ends are closed with drop siding, one side with barn boards and one side open. A storage loft at one end has 2" plank floor.								
	Overall Dimensions	Volume	Area						
	25' x 101'-6" x 22'	93,697 cu.ft.	5,037 sq.ft.						
	Material	Quantity							
	Lumber	10,883 f.b.m.							
	Drop Siding	925 sq.ft.							
	Concrete	36.3 cu.yds.							
	Asbestos Board	764 sq.ft.							
	Roofing	70.5 squares							
715-B	Oil and Paint Storage								
715-E	Oil and Paint Storage Equipment								
	One Oil and Paint Storage is provided in the 700 Area. It consists of the building proper, an unloading platform, and an open concrete paved storage area. The building is a one-story, frame structure with concrete floor resting on a concrete foundation. walls are sheathing and drop-siding and roof is sheathing covered with built-up roofing. A wood frame structure extending from the unloading platform to storage area supports a monorail.								
	Overall Dimensions	Volume	Area						
Building	25' x 30' x 20'	12,562 cu.ft.	750 sq.ft.						
Storage Area	25' x 60'		1,500 sq.ft.						
Platform	10' x 10'		100 sq.ft.						
	Material	Quantity							
	Lumber	3,470 f.b.m.							
	Drop Siding	1,100 sq.ft.							
	Concrete	50 cu.yds.							
	Roofing	6.8 squares							
716-B	Automotive Repair Shop								
716-C	Automotive Repair Shop Equipment								
	One Automotive Repair Shop is provided in the 700 Area. This one-story frame, rectangular-shaped building has concrete foundations and floors, drop-siding over sheathing walls with masonite, asbestos, and gypsum board linings. The roof above the Garage and Repair Shop area is built-up felt supported on wood trusses. Roofs over either end are built-up tar and gravel on decking and rafters.								
	Overall Dimensions	Volume	Area						
	154' x 652' x 10'	158,650	16,340 sq.ft.						
	Material	Quantity							
	Framing	35,000 f.b.m.							
	Siding	4,370 f.b.m.							
	Sheathing	25,070 f.b.m.							
	Concrete	173 cu.yds.							
	Reinforcing Steel Bars	3 tons							
	Reinforcing Steel Mesh	10,350 sq.ft.							
	Blanket Insulation	58. sq.ft.							
	Masonite	5,600 sq.ft.							
	Asbestos Board	1,460 sq.ft.							
	Gypsum Board	1,280 sq.ft.							
	Roofing	104 squares							
717-B	Fabrication Shops								
717-E	Fabrication Shops Equipment								
	Two Fabrication Shops are provided in the 700 Area - 717 and 717-A. These buildings are quite similar in construction and design, except 717-A has shed roof addition. Both are one-story, frame, rectangular-shaped structures having concrete foundations and reinforced concrete floors, drop-siding over sheathing walls, and built-up felt roofing on sheathing supported on wood trusses. In 717 interior partitions are lined with presoaked and the rooms with the exception of Fabrication Shop are ceiled with gypsum board. In 717-A wall and partition linings and ceilings are asbestos board, and insulation is provided in the ceiling. In 717-A floors are covered with linoleum.								
	Overall Dimensions	Volume	Area						
717	154' x 652' x 10'	158,650	16,340 sq.ft.						
	Material	Quantity							
	Framing	35,000 f.b.m.							
	Siding	4,370 f.b.m.							
	Sheathing	25,070 f.b.m.							
	Concrete	173 cu.yds.							
	Reinforcing Steel Bars	3 tons							
	Reinforcing Steel Mesh	10,350 sq.ft.							
	Blanket Insulation	58. sq.ft.							
	Masonite	5,600 sq.ft.							
	Asbestos Board	1,460 sq.ft.							
	Gypsum Board	1,280 sq.ft.							
	Roofing	104 squares							

**PROJECT COST SUMMARY - MILITARY FUNDS**  
**-FINAL DETAIL COST STATEMENT-**

REPORTING OFFICE HANFORD ENGINEER WORKS PROJECT DESCRIPTION PLUTONIUM PRODUCTION PLANT  
 MONTH ENDING 31 DECEMBER 1946

CODE No.	DESCRIPTION	ACCOUNT	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
				ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
717	Fabrication Shops (Continued)								
717-A	Overall Dimensions 90' x 41 1/2' x 32' 90' x 59 1/2' x 32'	Volume 101,000 cu.ft. 117,600 cu.ft.	Area 3,740 sq.ft. 4,610 sq.ft.						
	Material	Quantity		717	717-A				
	Framing	11,600 f.b.m.	24,700 f.b.m.						
	Sheathing	7,400 f.b.m.	8,220 f.b.m.						
	Siding	3,850 f.b.m.	4,770 f.b.m.						
	Concrete	129 cu.yds.	84.3 cu.yds.						
	Concrete Flooring	3,740 sq.ft.	4,610 sq.ft.						
	Reinforcing Steel Bars	1.3 tons	2.2 tons						
	Reinforcing Steel Mesh		4,600 sq.ft.						
	Predwood	3,100 sq.ft.							
	Gypsum Board	2,000 sq.ft.							
	Roofing	43.2 squares	52.4 squares						
	Asbestos Board		14,600 sq.ft.						
	2" Balsam Insulation		6,260 sq.ft.						
	Linoleum		415 sq.yds.						
720-B	Patrol Headquarters .								
720-E	Patrol Headquarters Equipment								
	One Patrol Headquarters building with jail attached is provided for the 700 Area, but is located outside the fence. This former construction office building is an "T" shaped wood-frame structure having wood foundations and floors, drop-siding exterior walls on wood sheathing and framing, gypsum board interior linings, and roll roofing. Jail is of concrete throughout, with gravel slab type roofing.								
	Overall Dimensions 25 1/2' x 84 1/2' x 15'	Volume 122,630 cu.ft.	Area 10,250 sq.ft.						
721-B	Military Intelligence Building								
721-E	Military Intelligence Building Equipment								
	One Military Intelligence Building is provided in the 700 Area. This is a one-story, "T" shaped, frame structure containing 17 rooms. The wood floor is supported by concrete block foundation walls. Walls are drop-siding on sheathing and roof is built-up felt on sheathing. Wall and partition linings are predwood, gypsum board, and asbestos board. Some insulation and acoustic tile is installed.								
	Overall Dimensions 105' x 70' x 24 1/2'	Volume 90,140 cu.ft.	Area 4,340 sq.ft.						
	Material	Quantity							
	Framing	15,380 f.b.m.							
	Siding	3,500 f.b.m.							
	Sheathing	8,450 f.b.m.							
	Flooring	4,310 f.b.m.							
	Concrete	13 cu.yds.							
	Concrete Blocks	2,100 blocks							
	Masonry	5,900 sq.ft.							
	Gypsum Board	2,820 sq.ft.							
	Asbestos Board	960 sq.ft.							
	Roofing	50 squares							
	Acoustic Tile	13.5 sq.yds.							
722-B	Area Shops								
722-E	Area Shops Equipment								
	Twelve Area Shop buildings are provided in the 700 Area.								
	722-A - This one-story, wood frame, "I" shaped building has reinforced concrete foundation walls and floor, drop-siding over sheathing walls, and built-up felt on sheathing roof. Interior linings are concrete block and asbestos board. At one corner a cement brick wall separates the structure from gas storage sheds.								
	722-C - This rectangular-shaped, building, used as a carpenter's shop, is similar in construction to the 722-A building. There are reinforced concrete platforms at either end of the building and a small dust collector building at one end.								
	722-D, E, F, G, H, I, M, N, P, R - These ten buildings are similar metal huts supported on reinforced concrete floors and three foot high sidewalls.								
	Overall Dimensions 90' x 84 1/2' x 30' 90' x 41 1/2' x 32' 722-B, etc.	Volume 126,800 cu.ft. 100,800 cu.ft. 12,570 cu.ft.	Area 5,370 sq.ft. 3,735 sq.ft. 1,056 sq.ft.						
	Material	Quantity		722-A	722-C	722-D, etc.			
	Lumber	f.b.m.							
	Siding	sq.ft.							
	Sheathing	sq.ft.							
	Concrete Flooring	sq.ft.							
	Reinforcing Steel Mesh	sq.ft.							
	Reinforcing Steel Bars	tons							
	Concrete	cu.yds.							
	Concrete Blocks	blocks							
	Concrete Bricks	brks.							
	Asbestos Board	sq.ft.							
	Gypsum Board	sq.ft.							
	Predwood	sq.ft.							
	Roofing	sq.oz.							
	Metal Hutment	sq.oz.							

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**PROJECT COST SUMMARY... MILITARY FUNDS  
--FINAL DETAIL COST STATEMENT--**

REPORTING OFFICE HANFORD ENGINEER WORKS PROJECT DESCRIPTION PLUTONIUM PRODUCTION PLANT  
MONTH ENDING 31 DECEMBER 1946

C/L DB NO.	DESCRIPTION	ACCOUNT	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
				ACTUAL		ACTUAL		ACTUAL	
723-B 723-E	700 AREA BUILDINGS AND EQUIPMENT (CONTINUED): Laundry Laundry Equipment	The Laundry Building is provided in the 700 Area. This one-story, wood frame, rectangular building contains a large laundry area and a number of smaller rooms. The building has a reinforced concrete foundation and floor, drop-siding over sheathing walls, and sheathing with built-up tar and gravel surface roof. Central portion of roof is raised above rest of roof. Interior wall linings are presswood and asbestos board.	Each Each	1 1		46,120 54,515		46,120 54,515	
	Overall Dimensions 90' x 75' x 21'	Volume 143,900 cu.ft.	Area 6,750 sq.ft.						
	Material	Quantity							
	Framing	14,900 f.b.m.							
	Siding	6,200 f.b.m.							
	Sheathing	14,000 f.b.m.							
	Concrete	71 cu.yds.							
	Concrete Flooring	6,750 sq.ft.							
	Reinforcing Steel Mesh	6,820 sq.ft.							
	Reinforcing Steel Bars	1.7 tons							
	Presswood	5,330 sq.ft.							
	Asbestos Board	600 sq.ft.							
	Roofing	71 squares							
724-B 724-E	Printing Plant Building Printing Plant Building Equipment	Two Printing Plant Buildings are provided in the 700 Area. Each building is a metal hutment supported on concrete floors and three foot high concrete side walls to increase headroom.	Each Each	2 2		15,864 7,298		7,932 3,649	
	Overall Dimensions 48' x 22' x 14'	Volume 12,670 cu.ft.	Area 1,056 sq.ft.						
	Material	Quantity (One-building)							
	Concrete Flooring	1,002 sq.ft.							
	Reinforcing Steel Mesh	1,008 sq.ft.							
	Reinforcing Steel Bars	0.8 ton							
	Concrete	26.3 cu.yds.							
	Metal Hutment	1 ss.							
729-B 729-E	Spare Machinery Storage Building Spare Machinery Storage Building Equipment	One Spare Machinery Storage Building is provided in the 700 Area. This one-story, wood frame, shed roof structure has concrete foundation walls and floor, drop siding walls, and built-up felt, gravel surfaced roofing over sheathing roof. The office ceiling and wall lining is asbestos board. One concrete loading platform is provided.	Each Each	1 1		22,404 3,151		22,404 3,151	
	Overall Dimensions 126' x 48' x 18'	Volume 13,205 cu.ft.	Area 6,076 sq.ft.						
	Material	Quantity							
	Lumber	24,000 f.b.m.							
	Siding	3,538 sq.ft.							
	Concrete	150 cu.yds.							
	Asbestos Board	416 sq.ft.							
	Roofing	60 squares							
734	Cylinder Storage Building	One Cylinder Storage Building is provided in the 700 Area. This one-story, wood frame, rectangular building is constructed with reinforced concrete foundation, floor, and loading platform. The walls, open top and bottom, are of drop-siding and the flat roof has built-up tar and gravel surface over sheathing. A concrete block wall separates the inflammable gas storage area from the empty cylinder area.	Each	1		7,241		7,241	
	Overall Dimensions 55' x 34' x 17'	Volume 31,800 cu.ft.	Area 1,870 sq.ft.						
	Material	Quantity							
	Siding	970 sq.ft.							
	Sheathing	1,870 sq.ft.							
	Concrete	59 cu.yds.							
	Concrete Flooring	1,870 sq.ft.							
	Reinforcing Steel Mesh	1,870 sq.ft.							
	Concrete Blocks	340 blocks							
	Roofing	19.1 squares							
744	Brick Storage Building	One Brick Storage Building is provided in the 700 Area. It is a one-story, wood frame structure with earth floor. Foundation walls and piers are concrete, walls are drop-siding, and roof is built-up felt, gravel surfaced, over sheathing.	Each	1		13,302		13,302	
	Overall Dimensions 126' x 48' x 18'	Volume 13,205 cu.ft.	Area 6,076 sq.ft.						
	Material	Quantity							
	Lumber	17,000 f.b.m.							
	Siding	4,176 sq.ft.							
	Concrete	30 cu.yds.							
	Roofing	60.5 squares							

**SECRET**  
**PROJECT COST SUMMARY -- MILITARY FUNDS**  
**--FINAL DETAIL COST STATEMENT--**

REPORTING OFFICE..... **JOINTED SERVICE WORK** ..... PROJECT DESCRIPTION **PLUTONIUM PRODUCTION PLANT**  
 MONTH ENDING **31 DECEMBER 1946**

ITEM NO.	ACCOUNT DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
			ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
700 AREA BUILDINGS AND EQUIPMENT (CONTINUED):								
751	Primary Substation One Primary Substation is provided for the 700 Area. This station is composed of a wooden fenced, gravel surfaced area in which equipment is supported on poles or concrete pads.	Each	1		52,157		52,157	
	Overall Dimensions 100' x 125'			Area 12,500 sq.ft.				
	Material Concrete Lumber Poles			Quantity 18 cu.yds. 4,500 f.b.m. 1,010 linear feet				
784-B	Boiler House	Each	1		275,098		275,098	
784-E	Boiler House Equipment 784 - One Boiler House is provided in the 700 Area. This three-story, structural steel frame, concrete block, rectangular-shaped structure is supported on concrete foundation walls and has a reinforced concrete floor. The roof is precast cement tile covered with built-up asphalt felt. A 200' tall, reinforced concrete stack, 14" bottom dia. and 9" top dia. is supported on a reinforced concrete base. Steel breeching runs from the boilers to the stack. A reinforced concrete coal crusher, and 8" ash pipe line, a live ash storage silo, a desorator, and a flash tank are provided.	Each	1		623,987		623,987	
	784-A - One Emergency Generator and Water Softening Building is provided in the 700 Area. This is a one-story, structural steel frame, concrete block structure with reinforced concrete foundation and floor. One portion of roof is precast concrete slab and the other is reinforced concrete, both surfaced with tar and gravel. A reinforced concrete clearwell is beneath the floor.							
	Overall Dimensions 107' x 45' x 57' 48' x 24' x 25'			Volume 216,000 cu.ft. 24,160 cu.ft.	Area 4,815 sq.ft. 1,128 sq.ft.			
	Material Concrete Reinforcing Steel Bars Structural Steel Concrete Blocks Concrete Bricks Roofing Reinforcing Steel Mesh			Quantity 805 cu.yds. 45.4 tons 178 tons 15,500 blocks 12,000 bricks 48.2 squares 1,440 sq.ft.	784-A 95 cu.yds. 6 tons 2,630 blocks 11.7 squares 1,440 sq.ft.			
796	Fire Equipment This account covers the cost of special non-expendable Fire Equipment not allocated for use in a specific building or facility including but not limited to:	LS	1		181,058		181,058	
	Fire Extinguisher Axe Special Nozzles Hand Pumps Barrels Pump Cans Masks Etc.							
797	Hospital and First Aid Equipment This account covers the cost of that non-expendable Hospital and First Aid Equipment such as;	LS	1		142,975		142,975	
	Refrigerators Dispensers Cots Mattresses Inhalators Short Wave Machine Fracture Table Surgical Equipment Etc.							
798	Police Equipment This account covers the cost of that non-expendable Police Equipment not allocated for use in any specific building or facility including but not limited to:	LS	1		58,429		58,429	
	Revolvers Binoculars Cartridge Carriers Holsters Gas Units Radio Equipment Hand Cuffs Etc.							
799	Office Equipment This account covers the cost of all non-expendable Office Equipment.	LS	1		744,231		744,231	
	TOTAL GENERAL ADMINISTRATIVE AND MAINTENANCE FACILITIES BUILDINGS AND EQUIPMENT TOTAL MAIN PLANT				3,939,564			
					253,517,191			

**SECRET**

**PROJECT COST SUMMARY-- MILITARY FUNDS**  
**--FINAL DETAIL COST STATEMENT--**

REPORTING OFFICE.....PROJECT DESCRIPTION.....  
 MONTH ENDING.....  
 DECEMBER 1944.....PLUTONIUM PRODUCTION PLANT

CODE NO.	DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS			
			ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL		
<b>TOWNSITE:</b>										
<b>RESIDENCES, UTILITIES, COMMUNITY AND COMMERCIAL FACILITIES, STREETS, WALKS, ETC.:</b>										
1100 AREA:										
1102 Roads and Grading	This account covers roads, grading, walks, curbs, gutters and parking areas within the Village limits. Most of the roads in Highland are new construction and have bituminous surfacing. The art and cover type is used on all except the more heavily traveled which have 2" road mix. A few small bridges and culverts are included. Curbs and gutters are of concrete in the business district and along certain key roads and all others are a bituminous road mix. Walks in business areas are concrete and in residential areas are bituminous. Parking areas are surfaced with shot and cover method. Logs and posts are provided except in those used for residential parking.	LS	1	4,407,616		4,407,616				
	Item Roads - (New) (existing) Curbs & Gutters (All Types) Walks (All Types) Parking Areas	Quantity 48 miles 4 miles 5.2 miles 100 miles 237,100 sq.yds.								
1103 Water and Fire Protection	The Drinking Water and Fire Protection Water Lines are one and the same system in the Village of Highland. There are approximately 107 total miles of Water Lines and 450 Fire Hydrants within the village. Water is obtained from deep wells (Code 1186), passes through collection headers to two large 1,000,000 gal. underground water storage reservoirs (Code 1182), through three 100,000 gal. steel overhead storage tanks and thence to all parts of the village. The system operates automatically at 600 P.S.I., and can be stepped up to 800 P.S.I. in case of emergency. All lines are either iron or steel, ranging in size from 1" to 14", and are laid at a minimum depth of 4' below the surface.	LS	1	1,436,517		1,436,517				
1104 Sewer Lines	Sewer Lines are provided in the village for the removal of sanitary sewage and a small amount of storm water. There is approximately 500,000 linear feet of lines ranging in size from 4" to 14". Pipe is both vitrified clay and concrete and manholes are brick. In collecting and carrying the sewage to the Sewage Disposal Plant (Code 1124) only one lift station is required. This station consists of pumps having total capacity of 2,000 G.P.D., and a concrete reservoir having a frame and concrete enclosed operating floor.	LS	1	1,833,417		1,833,417				
1105 Electrical Distribution Lines	Electrical Distribution Lines are provided within the 1100 Area. This system is comprised of 2,300V, 440/220V, and 220/110V lines. Distribution lines are of 3-wire, cross arm, single pole construction. There are approximately 470,000 linear feet of wire (single wire calculations) and 2,000 wood poles. Street lighting for the village is also included in this order.	LS	1	681,018		681,018				
	Material Total length of conductor single wire calc. Total number of power and light poles Total number of street lights	Quantity 175 miles 1 2000 410								
1106 Rehabilitation of Present Residences	This work covered 140 existing tract houses and consisted of miscellaneous electrical work repairing, replacing window glass, installing window screens, painting interior, replacing floor nr., installing bathtubs and sanitary piping in houses in village area, removing unsafe old buildings, and other miscellaneous items.	Each	140	215,945		1,542				
1107 Staff Residences - Single Family Units	Construction Costs (Less Items Below)	Each	643	3,317,740		5,152				
	Aater Heater Linoleum and Screens Payroll, Installation of Above Indirect Costs (Distributive) Grand Total	40 41 76 1,308	31,807 47,363 4,228 482,391		462,627	1,447				
	643 Single Family Residences are provided in Highland village. These houses, all single family dwellings, are of six conventional types, differing in size and layout but are similar in structural details. Foundations are concrete and concrete block and approximately half the cellar is paved with concrete. Super structures are frame, having siding or wood shingles exterior and gypsum board interior walls; natural stained hard wood floors over subflooring; and wood or composition shingle roofs.	Each	643	4,850,387		6,666				
	Description of Material	D	E	F	G	H	I	J		
Number of Units	8	84	260	8	260	43				
Number of Bedrooms	4	3	3	4	3	4				
Number of Stories	1½	1	2	2	1	2				
Overall Dimensions	30x55x32	41x59x22	24x26x27	27x33x30	36x37x22	32x24x30				
Volume (Cubic Feet)	29,000	53,740	18,600	22,500	21,400	21,100				
Floor Area (sq.ft.)	1,280	1,420	1,140	1,520	1,668	1,636				
Cellar Floor Area (Sq.Ft.)	40	50	314	460	307	344				
Concrete (cu.yds.)	26	34	24.6	31	38	8				
Chimney Brick	889	742	952	1,015	707	1,029				
Framing (f.b.m.)	8,866	8,067	7,587	8,200	8,846	8,650				
Flooring (sq.ft.)	1,240	1,420	1,140	1,120	1,110	1,576				
Sheathing (f.b.m.)	8,024	3,260	3,182	3,600	3,580	3,600				
Roofing (squares)	11	16	7.8	12.6	13.8	9.3				

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**PROJECT COST SUMMARY... MILITARY FUNDS**  
**--FINAL DETAIL COST STATEMENT--**

REPORTING OFFICE

HARFORD ENGINEER WORKS

PROJECT DESCRIPTION

HUTCHINSON BICKLE PLANT

MONTH ENDING

31 DECEMBER 1946

CODE NO.	ACCOUNT DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNITS COSTS	
			ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
1108	Staff Residences - Single Family Units (continued)							
	Description or Material	D E F G H I						
	Siding & Shakes (square feet)	14 12.8 16.75 18.5 17.8 19.8						
	Wallboard (sq.ft.)	3,070 3,260 3,260 3,120 3,200 4,000						
	Insulation (sq.ft.)	2,000 3,020 3,132 4,400 1,480 2,560						
	Linoleum (sq.yds.)	3.4 12 1.60 16 13 16.6						
1109	Staff Residences - Duplex Units							
	Construction Costs (less Items Below)							
	Water Heater	4		40.944				
	Linen and Screens	34		44,052				
	Faycil, Installation of Above	6		114.362				
	Indirect Costs (Distributive)	1,019		1,386,553				
	Grand Total							
	928 Duplex Dwelling Units are provided in Highland Village. These houses, two families in a unit, are of two conventional types similar in structural details, but differing in size and layout. The "A" type has two stories, with three bedrooms and bath on second floor. The "B" type has one story with two bedrooms in addition to the living room, dinette kitchen, and bath. Foundations are concrete and cinder block, the half cellar is paved with concrete, superstructure is wood frame with shingles and siding exterior and gypsum board interior, floors are soft wood without subflooring, and roofs have composition shingles.							
	Quantities and Dimensions are for half unit (one family)							
	Description or Material	Type A Type B						
	Number of Family Units	16		1,340				
	Number of Bedrooms	3		2				
	Number of Stories	2		1				
	Overall Dimensions	26' x 33' x 32'		24' x 36' x 33'				
	Volume (cu.ft.)	16,838		17,300				
	Floor Area (sq.ft.)	1,380		980				
	Cellar Floor Area (sq.ft.)	23%		460				
	Concrete	4.8		17.6				
	Concrete Blocks	1,000		1,200				
	Chimney Bricks	1,024		744				
	Framing (f.b.e.)	8,874		9,574				
	Flooring (sq.ft.)	1,080		980				
	Sheathing (f.b.m.)	3,760		3,200				
	Roofing (square feet)	14.8		11				
	Siding & Shakes (square feet)	11.46		7				
	Wallboard (sq.ft.)	7,460		3,200				
	Insulation (sq.ft.)	1,700		1,480				
	Linoleum (sq.yds.)	11		9				
1110	Dormitories							
	Twenty-five Dormitory Buildings are provided in the 1100 Area, eight for men and seventeen for women. The two types are nearly identical, being two-story, wooden-frame, gable roof, rectangular shaped structures, and containing a vestibule, lounge room, storage room, wash room, toilet, shower, and fourteen bedrooms on ground floor and storage room, wash room, toilet, shower and seventeen bedrooms on second floor. The building is supported on concrete piers and concrete block foundation walls on concrete footings. Exterior walls are a combination of vertical siding and horizontal siding. The asphalt shingle roof is supported by wooden trusses, rafters and sheathing. Floors are wood except concrete in shower room. Interior wall linings are wallboard.							
	Overall Dimensions	Volume	Area					
	1103' x 33' x 30'	100,800 cu.ft.	3,340 sq.ft.					
	Material	Quantity						
	Framing	41,300 f.b.e.						
	Siding	52 squares						
	Sheathing	17,200 f.b.m.						
	Flooring (wood)	7,600 sq.ft.						
	Wallboard	20,700 sq.ft.						
	Insulation	9,480 sq.ft.						
	Linoleum	50 sq.yds.						
	Concrete	12.8 cu.yds.						
	Concrete Blocks	1,000 blocks						
	Reinforcing Steel Bars	0.1 tons						
1111	Stores							
	Two general types of Stores are provided in Richland Village: Newly constructed and remodeled existing buildings.							
	Eighteen new Stores were constructed, quite similar in construction but differing in size. All are one-story, wooden-frame, flat-roof structures. Foundations are principally concrete, but some concrete block is used, floors are concrete with linoleum covering in many buildings. Exterior walls are shaked over sheathing, except for some siding is wood. Interior walls and ceilings are lined with wallboard. Roofs are built-up asphalt felt over sheathing and insulation is provided in walls and ceilings. Concrete walled heating rooms are constructed in several cutaway areas.							
	NEW BUILDINGS							
	Description	Food Service Autoc. General Variety Repair						
	Material	Store Station Garage March Store Shop						
	No. of Units	5 8 1 1 1 1						
	Overall Dimensions	135x80x24 28x24x17 134x106x28 160x160x24 160x80x27 60x30x16						
	Volume (cu.ft.)	164,500 10,480 189,000 562,000 188,000 21,700						

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**PROJECT COST SUMMARY... MILITARY FUNDS.**  
**--FINAL DETAIL COST STATEMENT--**

REPORTING OFFICE ~~HANDED ENGINEER GROUP~~ PROJECT DESCRIPTION ~~PLUTONIUM PRODUCTION PLANT~~  
 MONTH ENDING ~~31 DECEMBER 1946~~

CODE PC	DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
			ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
1111	<b>Stores (continued)</b>							
	Description	Food Store	Service Station	Autom. Garage	General Merch.	Variety Store	Repair Shop	
	Material							
	Area (sq.ft.)	8,100	618	9,400	28,000	9,900	1,800	
	Lumber (f.b.m.)	28,800	siding		91,800			
	Shakes (sq.ft.)	6,000	920	5,000	11,000	5,320	2,060	
	Sheeting (sq.ft.)	16,100	2,290	16,800	46,300	14,320	3,160	
	Concrete (cu.yds.)	167	22	140	360	130	40	
	Con. Floor (sq.ft.)	6,000	15	5,400	22,500	2,000	1,800	
	Wallboard (sq.ft.)	12,320	1,100	2,400	24,600	16,000	5,320	
	Roofing (squares)	81	87	98	226	>0	18	
	Description	Women's Apparel	Barber & Beauty	Milk Dept	Drug Stores A&B	Drug Stores C		
	Material		Shop					
	No. of Units	1	1	1	2	1		
	Overall Dimensions	110x60x16	96x40x17	68x56x18	137x36x23	112x80x23		
	Volume (cu.ft.)	108,900	61,640	51,000	75,000	69,350		
	Area (sq.ft.)	6,800	3,820	3,190	4,450	5,270		
	Lumber (f.b.m.)	26,300			25,000			
	Shakes (sq.ft.)	5,880	2,800	2,540	2,000	2,170		
	Sheeting (sq.ft.)	12,100	6,220	8,330	8,700	10,160		
	Concrete	125	78	56	106	108		
	Con. Floorings (sq.ft.)	6,800	3,420	2,840	4,450	5,270		
	Wallboard (sq.ft.)	14,400	4,800	1,060	7,000	9,900		
	Roofing (squares)	66	36.2	30	44.6	52.7		
	Six existing buildings have been remodeled into Stores. Former construction, new construction, and new dimensions are given in the following table.							
	<b>REMODELED EXISTING BUILDING</b>							
	Name of Bldg.	Description	Dimensions	Volume	Area			
			cu.ft. sq.ft.					
	Men's Apparel & Shoe Store	Formerly-2-story, concrete block walls, concrete and wood floors, partial basement with concrete walls, composition on frame roof.	75x75x27	121,000	5,825			
		New Construction - 1-story concrete block wood floor, asphalt felt on frame roof, concrete walls in part basement.						
	Western Union	Formerly-1-story, stucco on frame, with seed 57x20x16 floor, composition roof, on wood.	16,750	1,060				
		New Construction - Same.						
	Optical Shop	Formerly-1-story, concrete block walls, and concrete block cellar walls, concrete basement and wood 1st floor, composition roof on wood.	36x28x30	26,200	900			
		New Construction - Same.						
	Library	Formerly-1-story, concrete block, wood floor, composition roof on wood frame.						
	Electrical Shop	Formerly-2-story, stucco on frame walls asphalt shingles on sheathing roof, full concrete basement.	45x24x28	25,000	1,080			
		New Construction - Same.						
	Hardware	Formerly-1-story, tile and brick composition roof on wood frame, concrete floor.	100x74x19	110,000	7,450			
		New Construction - Same, but addition on side is shales on frame.						
1112	Churches				Each	3	124,184	41,368
	No new Churches and one rehabilitated Church are provided in the 1100 Area. These structures, identical except for the addition of a steeple on one, are new story, wooden-frame, gable roof, rectangular shaped buildings with half basements. Basement floor and walls and foundation walls and piers are concrete, main floor is wood, walls are shales over sheathing exterior, and wood wainscot and insulation board interior. Main floor partitions and ceilings are insulation board and basement partitions and ceilings are gypsum board. The wood shingled roof is supported on wood trusses and sheathing. One existing church building requiring very little rehabilitation work is included in this code.							
	Overall Dimensions		Volume	Area				
	107x71x27	2427	177,300 cu.ft.	5,20 sq.ft.				
	Material		Quantity					
	Shakes		6,300 sq.ft.					
	Sheeting		12,000 sq.ft.					
	Wood Floor		5,920 sq.ft.					
	Concrete		92 cu.yds.					
	Concrete Floor		2,460 sq.ft.					
	Reinforcing steel mesh		2,460 sq.ft.					
	Wood Wainscot		1,200 sq.ft.					
	Insulation Board		6,200 sq.ft.					
	Gypsum Board		3,180 sq.ft.					
	Roofing (Shingle)		67 squares					
1113	Schools				Each	6	1,540,438	286,759
	Four Grade Schools, one High School and Nursery are provided in the 1100 Area. One Grade School is the existing School to which were added two wings; the two are identical 16 room buildings; and the fourth is an 8 room building. The new wings of the existing school are similar in construction to the old portion. Foundation walls and piers are concrete; floor is wood except some rooms have concrete; walls are brick veneer on sheathing exterior and plaster interior. Roof is asbestos shingle over							

**SECRET**

**PROJECT COST SUMMARY... MILITARY FUNDS  
--FINAL DETAIL COST STATEMENT--**

REPORTING OFFICE.....PROJECT DESCRIPTION.....HANFORD ENGINEER WORKS PLUTONIUM PRODUCTION PLANT

MONTH ENDING.....

31 DECEMBER 1946

CODE NO.	DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
			ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
1113	Schools (continued)							
	sheeting except over the gymnasium where it is asphalt felt supported by trusses, rafters, and sheathing. Ceilings are plaster. The new Schools are all one-story, wooden frame, and similar in construction. Foundation walls and piers are concrete; floors are wood except concrete in several rooms; exterior walls are shales over sheathing; roofs are composition shingle or sheathing except curved roofs over assembly rooms have asphalt felt surfacing. Interior partitions are plastered but some acoustic tile ceiling and wooden siding is installed. Wall room walls and firewalls are of brick.							
	The High School is "E" shaped and constructed similar to new Grade Schools and has a large concrete floored auditorium.							
	The nursery is a remodeled existing house to which have been added two metal huts with connecting hallways. The building has concrete and stone foundation, siding and shales on exterior and plaster and wallboard on interior walls, linoleum over wood floors, and composition shingles on roofs. The standard 40' x 22' semi-circular metal huts have been painted on the outside and partially dressed with exterior shales and siding.							
	<b>School</b> <u>Overall Dimensions</u> <u>Volume</u> <u>Area</u>							
Existing	266' x 185' x 36'	780,000 cu.ft.	32,500 sq.ft.					
#1	408' x 230' x 41'	872,500 cu.ft.	35,200 sq.ft.					
#2	264' x 768' x 378'	432,000 cu.ft.	16,400 sq.ft.					
#3	408' x 230' x 41'	872,500 cu.ft.	35,200 sq.ft.					
High School	457' x 245' x 42'	1,841,000 cu.ft.	63,000 sq.ft.					
Nursery	80' x 7b' x 25'	46,000 cu.ft.	3,200 sq.ft.					
	<b>Material</b>	<b>Quantity</b>						
	Unit	Trade	Grade #2	High School				
	cu.yds.	100	45	450				
	Concrete	cu.yds.	2,300	700	17,600			
	Concrete Flooring	sq.ft.	2,300	700	17,600			
	Reinf. Steel Mesh	sq.ft.	2,300	700	17,600			
	Concrete Block	blocks	6,000	4,800	16,000			
	Lumber	f.b.m.	217,300	106,000				
	Sheathing	sq.ft.	115,000	37,200	51,000			
	Shakes	sq.ft.	14,500	7,100	24,000			
	Siding	sq.ft.	400	6,100	1,000			
	Wood Flooring	sq.ft.	36,200	15,700	47,200			
	Bricks	bricks	110,000	44,000				
	Acoustic Tile Pcard	sq.ft.	6,400	2,900	12,600			
	Flester	sq.ft.	77,800	37,000	124,000			
	Insulation	sq.ft.	80,000	3,000	134,000			
	Roofing	squares	410	144	670			
1114	Theater				Each	2	140,603	70,251
	The theaters are provided in the 1100 Area. The buildings are identical and consist of the main auditorium seating 620 people, all on one floor, a small stage and a foyer with an apartment and projection room above. The building is of frame construction, having concrete foundations and floor, shingle and siding exterior walls and tile board interior walls and ceiling. Roof is built-up asphalt felt over sheathing on bow string trusses.							
	<b>Overall Dimensions</b> <u>Volume</u> <u>Area</u>							
	128' x 43' x 32'	150,000 cu.ft.	5,504 sq.ft.					
	<b>Material</b>	<b>Quantity</b>						
	Lumber	f.b.m.	76,224					
	Roofing	sq.yards	40					
	Shakes & Shingles	squares	33					
	Wallboard	sq.ft.	17,152					
	Insulation	sq.ft.	12,364					
	Asphalt Tile Floor Covering	sq.ft.	166					
	Linoleum	sq.ft.	23					
	Concrete	cu.yds.	168					
1115	Bank Building				Each	1	87,672	87,672
	One bank building is provided in the 1100 Area. This one-story, wooden frame, rectangular-shaped building contains the main banking area, several offices and rest rooms, a two story reinforced concrete vault and two rooms in the basement. The reinforced concrete floor is supported on reinforced concrete foundation walls. Exterior walls are shales over sheathing, except entrance has siding, and interior linings and ceilings are wallboard. Roof is surfaced composition asphalt felt.							
	<b>Overall Dimensions</b> <u>Volume</u> <u>Area</u>							
	36' x 40' x 27'	88,00 cu.ft.	3,840 sq.ft.					
	<b>Material</b>	<b>Quantity</b>						
	Concrete	cu.yds.	147					
	Concrete Flooring	sq.ft.	4,230					
	Reinforcing Steel Mesh	sq.ft.	4,230					
	Concrete Blocks	blocks	430					
	Sheathing	sq.ft.	7,820					
	Shakes & Siding	sq.ft.	3,680					
	Wallboard	sq.ft.	7,700					
	Asphalt Tile	sq.yds.	400					
	Insulation	sq.ft.	7,800					
	Roofing	squares	384					
1116	Municipal Building				Each	1	49,972	49,972
	One Municipal Building is provided in the 1100 Area. This one-story, wooden frame							

**SECRET**

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**PROJECT COST SUMMARY -- MILITARY FUNDS**  
**--FINAL DETAIL COST STATEMENT--**

REPORTING OFFICE..... HANFORD ENGINEER WORKS..... PROJECT DESCRIPTION..... PLUTONIUM PRODUCTION PLANT  
 MONTH ENDING..... 31 DECEMBER 1946.....

CODE NO.	DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		NET COSTS	
			ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
1116	Municipal Building (continued) "L" shaped building contains offices in one leg and fire truck storage in other. A frame hose-drying tower extends above the rest of the building. The reinforced concrete floor is supported on concrete foundation walls and piers. Exterior walls are shingles and siding over sheathing and interior linings and partitions are wallboard. Roof is surfaced with composition asbestos felt.							
	Overall Dimensions 104' x 108' x 37'	Volume 105,000 cu.ft.	Area 6,550 sq.ft.					
	Material	Quantity						
	Concrete	115 cu.yds.						
	Concrete Flooring	6,150 sq.ft.						
	Reinforcing Steel Mesh	6,150 sq.ft.						
	Sheeting	10,150 sq.ft.						
	Asbestos Siding	2,320 sq.ft.						
	Shingles	1,560 sq.ft.						
	Wallboard	15,420 sq.ft.						
	Roofing	6745 squares						
1117	Transient Quarters One Transient quarters building is provided in the 1100 Area. This two-story, wooden-frame, gable roof, "L" shaped building has a lobby and 16 bedrooms on the first floor and 67 bedrooms on the second. Beneath the lobby and projecting beyond the wings is a Coffee Shop and kitchen. Foundation walls and piers are concrete; also the basement floors; other floors are wood with the addition of linoleum in bathrooms. Exterior walls are shingles and siding; and roof is asphalt shingles in sheathing. Roof over coffee shop is a prominent tile surface. Two brick fire walls separate the building.	Each	1		304,426		304,426	
	Overall Dimensions 280' x 80' x 42'	Volume 443,000 cu.ft.	Area 18,700 sq.ft.					
	Material	Quantity						
	Lumber	57,200 f.b.m.						
	Concrete	600 cu.yds.						
	Cement Bricks	66,500 bricks						
	Reinforcing Steel Bars	1.3 tons						
	Flooring	44,000 sq.ft.						
	Sheeting	10,100 f.b.m.						
	Siding & Shingles	23,000 sq.ft.						
	Wallboard	68,000 sq.ft.						
	Insulation	68,000 sq.ft.						
	Roofing	261 squares						
1118	Hospital One hospital is provided in the 1100 Area. This large, one-story wooden frame, gable roof structure consists of five wings connected by a central partition passing through the mid point of each wing. The building contains approximately 24 rooms. Foundations are concrete, and floors are of four types: reinforced concrete, wood, linoleum over wood, and terrazzo over wood. Exterior walls are shingles over sheathing and interior walls and ceilings are plaster. Roofing is composition shingles. Four fire walls divide the building.	Each	1		765,227		765,227	
	Overall Dimensions 181' x 282' x 24'	Volume 1,140,000 cu.ft.	Area 55,600 sq.ft.					
	Material	Quantity						
	Concrete	800 cu.yds.						
	Concrete Flooring	7,700 sq.ft.						
	Reinforcing Steel Mesh	7,700 sq.ft.						
	Plaster	157,000 sq.ft.						
	Sheeting	83,400 sq.ft.						
	Shingles	22,200 sq.ft.						
	Wooden Flooring	47,000 sq.ft.						
	Linoleum	4,500 sq.yds.						
	Insulation	133,400 sq.ft.						
	Roofing	612 squares						
	Terrazzo	5,300 sq.ft.						
1119	Post Office One Post Office building is provided in the 1100 Area. This one-story, wooden-frame, flat-roof building has a wood floor supported on reinforced concrete foundation walls and piers. Exterior walls are asbestos siding over sheathing and interior linings and ceiling are wallboard.	Each	1		31,377		31,377	
	Overall Dimensions 80' x 67' x 19'	Volume 86,100 cu.ft.	Area 4,730 sq.ft.					
	Material	Quantity						
	Concrete	60 cu.yds.						
	Pressing	22,000 f.b.m.						
	Sheeting	10,400 sq.ft.						
	Asbestos Siding	4,500 sq.ft.						
	Asphalt Tile	1,100 sq.ft.						
	Linoleum	24 sq.yds.						
	Insulation	14,500 sq.ft.						
	Wallboard	12,000 sq.ft.						
	Wood Flooring	4,700 sq.ft.						
	Roofing	55 sq.ft.						

**PROJECT COST SUMMARY - MILITARY FUNDS**  
**-FINAL DETAIL COST STATEMENT-**

REPORTING OFFICE HANFORD ENGINEER WORKS PROJECT DESCRIPTION PLUTONIUM PRODUCTION PLANT  
 MONTH ENDING 31 DECEMBER 1944

CODE NO.	DESCRIPTION	ACCOUNT	UNIT OF MEASURE	QUANTITY		TOTAL COSTS	UNIT COSTS
				ACTUAL	ACTUAL		
	1100 AREA (continued)						
1120	Laundry	One Laundry Building is provided in the 1100 Area. This one-story, wooden frame, rectangular-shaped structure contains a brick enclosed dry cleaning unit in one corner. The reinforced concrete floor is supported on reinforced concrete foundation and an earth fill. The exterior walls are shakes over sheathing, and the roof is composition asphalt felt over sheathing, raised over the center part of the building. Interior wall linings are wood wainscot with wallboard above in work areas, and gypsum board in office and lunch room.	Each	1	209,563	209,563	
		Overall Dimensions <u>19'6" x 41' x 23'</u>	Volume <u>284,700 cu.ft.</u>	Area <u>18,030 sq.ft.</u>			
		Material	Quantity				
		Concrete	2,000 cu.yds.				
		Concrete Flooring	16,000 sq.ft.				
		Reinforcing Steel Mesh	17,000 sq.ft.				
		Sheathing	1,000 sq.ft.				
		Brickvilles, 1' thick	2,000 sq.ft.				
		Shakes	3,000 sq.ft.				
		Wainscot	1,000 sq.ft.				
		Wallboard	1,000 sq.ft.				
		Plaster	72 sq.ft.				
		Roofing	160 sq.ft.				
1121	Cafeteria	One Cafeteria is provided in the 1100 Area. This wooden frame, one-story building has arched-shaped roof over main part and flat roof over kitchen and storage portion. The building has reinforced concrete foundations and piers and floor. Exterior walls are shales over sheathing, and interior and columns are wallboard, gypsum board and plaster. Roof is ruled felt over both sections. Roof trusses are wood.	Each	1	157,369	157,369	
		Overall Dimensions <u>13'8" x 14'7" x 26'</u>	Volume <u>332,400 cu.ft.</u>	Area <u>17,440 sq.ft.</u>			
		Material	Quantity				
		Fencing	6,000 ft.b.m.				
		Shakes	9,000 sq.ft.				
		Sheathing	22,600 cu.ft.				
		Concrete	200 cu.yds.				
		Concrete Flooring	14,000 sq.ft.				
		Reinforcing Steel Mesh	16,000 sq.ft.				
		Insulation	2,000 sq.ft.				
		Wallboard	11,000 sq.ft.				
		Gypsum Board	13,000 sq.ft.				
		Plaster	12,000 sq.ft.				
		Roofing	1-3 squares				
1122	Propane Storage	One Propane Gas Storage Shelter is provided in the 1100 Area. This building is open frame on concrete piers with wood floor and roll roofing, and is located within a stabilized, fenced area.	Each	1	2,337	2,337	
		Overall Dimensions <u>20' x 150'</u>	Volume <u>3,000 cu.ft.</u>	Area <u>300 sq.ft.</u>			
1123	Recreation Building	One Recreation Building is provided in the 1100 Area. The building consists of main lounge, two card rooms, dining room, pool room, bowling room containing 12 alleys, tap room, lunet counter, and entrance foyer. This no-story wood frame building is supported on reinforced concrete and concrete block foundation walls and piers. Flooring is concrete in kitchen area, toilets, and porches, and the remainder of wood covered with asphalt tile except in main lounge and bowling alleys. The exterior walls are shales over sheathing except some siding. Roof is both composition shingle and asphalt felt over sheathing. Interior linings are wallboard and some plaster.	Each	1	358,098	358,098	
		Overall Dimensions <u>350' x 170' x 30'</u>	Volume <u>580,000 cu.ft.</u>	Area <u>37,000 sq.ft.</u>			
		Material	Quantity				
		Concrete	2,000 cu.yds.				
		Concrete Flooring	6,000 sq.ft.				
		Reinforcing Steel Mesh	6,000 sq.ft.				
		Concrete Block	7,000 blocks				
		Wood Flooring	34,000 sq.ft.				
		Asphalt Tile	25,000 sq.ft.				
		Framing	76,000 ft.b.m.				
		Sheathing	54,000 sq.ft.				
		Siding	14,000 sq.ft.				
		Shakes	6,000 sq.ft.				
		Wallboard	2,000 sq.ft.				
		Plaster	400 sq.ft.				
		Roofing					

**PROJECT COST SUMMARY --- MILITARY FUNDS**  
**--FINAL DETAIL COST STATEMENT--**

REPORTING OFFICE

HAROLD SINGER, M.E.S.

PROJECT DESCRIPTION

FLUORIN PRODUCTION PLANT

MONTH ENDING

31 DECEMBER 1946

CODE NO.	ACCOUNT DESCRIPTION	MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
			ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
1124	1100 AREA (continued)  Sewage Disposal Plant One Sewage Disposal Plant is provided in the 1100 Area. The plant consists of the following buildings: Pump House - Three-story, reinforced concrete. Seal and Chlorinator House - Reinforced concrete, concrete block, and corrugated transite. Diverter Box and Chlorine Contact Chamber - Reinforced concrete with wood baffles. Biofilter - Reinforced concrete and concrete block with 3' layer of gravel. 2 Primary and 2 Secondary Clarifiers - Reinforced concrete. Digester - Completely enclosed granite tank with dome-shaped roof and reinforced concrete base. Sludge Drying Beds - Asbestos baffles. The various units are interconnected with cast-iron, welded steel, and vitrified clay pipes.  <u>Building      Overall Dimensions</u> Pump House      28' x 22' x 34' Seal & Chlorinator House      24' x 11' x 26  <u>House</u> Chlorine Tank Stor. 10' x 10' x 11' Biofilter      100' Dim. x 6' (2) Primary Clarifiers 65' Dim. x 9' (2) Secondary Clarifiers 65' Dim. x 8' Digester      45' Dim. x 33' Sludge bed      160' x 7' x 3' Chlorine Contact 30' x 30' x 5' Chamber  <u>Overall Dimensions</u> Permanent Constr. 160' x 50' x 20' Igloo Type      150' x 40' x 20' Temporary Constr. 200' x 100' x 12' Double Pacific Hut 90' x 20' x 10' Shed      20' x 18' x 10' Temporary Constr. 72' x 30' x 20'  <u>Material</u> Framing      28,000 f.b.m. Sheathing      7,500 f.b.m. Siding      10,000 sq.ft. Wood Flooring      7,500 f.b.m. Wallboard      570 sq.ft. Roofing      56 squares	Each	1		31,613		31,613	
1125	Warehouse  One Warehouse, not of temporary construction, is provided in the 1100 Area. This one-story, wooden frame, rectangular-shaped building has wooden flooring supported by wooden piers on mud sills. The walls are siding and the flat roof is composition wood-asphalt felt. The walls are unlined except in office and toilets. Four Igloo Warehouses are provided, which are corrugated metal arch type with wood plank floors on steel stringers. Three frame buildings also are provided. Construction is temporary wood frame on wood mud sills, wood plank floor, gypsum board siding and roll roofing. Two Pacific Huts with intervening bath house and one small frame shed complete the group.  <u>Overall Dimensions</u> Permanent Constr. 160' x 50' x 20' Igloo Type      150' x 40' x 20' Temporary Constr. 200' x 100' x 12' Double Pacific Hut 90' x 20' x 10' Shed      20' x 18' x 10' Temporary Constr. 72' x 30' x 20'  <u>Material</u> Framing      28,000 f.b.m. Sheathing      7,500 f.b.m. Siding      10,000 sq.ft. Wood Flooring      7,500 f.b.m. Wallboard      570 sq.ft. Roofing      56 squares	Each	9		288,221		32,025	
1126	Domestic Coal Yard  One Coal Yard is provided for handling domestic use coal in Richland Village. This facility consists of an unloading treated of heavy timbers on concrete piers; structural steel coal bin complete with dump hopper, shaker screen, lump bin, fine bin, and truel loading device; portable 80' conveyor; crane; earth crane ramp, and a frame yard office, 12' x 14' x 10'.  Swimming Pool and Comfort Station	Each	1		18,765		18,765	
1127	One Swimming Pool with bathhouse and comfort station is provided in the village park. The pool is a renovated existing concrete structure, but the bathhouse and comfort station are new frame construction. Construction is concrete floors, drop-siding walls, and roll roofing. A wood fence surrounds the pool and a small frame shed houses chlorinating equipment.  <u>Overall Dimensions</u> Bathhouse & Comfort Station      64' x 28' x 8' Pool      108' x 41' x 8'	Each	1		22,580		22,580	
1128	Irrigation Ditch Fence  A fence enclosing the Irrigation Canal running through the prefabricated housing area is provided. The fence is chain-link type with steel posts set in concrete. Gates are provided.  <u>Material</u> Chain Link Fence      12,000 feet.	Lin.Ft.	12,000		37,652		3	
1129	Prefabricated Houses  These Prefabricated Houses designed by T.V.A. are constructed of plywood throughout. Exterior and interior walls, floors, undersides of floor beams, ceiling, and roof. Roofs are covered with waterproofed canvas and floors are covered with linoleum. Houses are set on platforms of wood post and plank.	Each	1800		7,993,241		4,44	

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**PROJECT COST SUMMARY - MILITARY FUNDS**  
**--FINAL DETAIL COST STATEMENT--**

REPORTING OFFICE

HAROLD ENGINEER CORPS

PROJECT DESCRIPTION

PLUTONIUM PRODUCTION PLANT

MONTH ENDING

31 DECEMBER 1944

CODE NO.	DESCRIPTION	ACC UNIT	UNIT OF	QUANTITIES		TOTAL COSTS		UNIT COSTS
				MEASUREMENT	ACTUAL	ACTUAL	ACTUAL	
1129	Fabricated Homes (continued)							
	Type No. of Pdrons Overall Dimensions			Area				
	A-8 1 27' x 17' x 8'			576 square				
	B-1 2 27' x 24' x 8'			648 square				
	C-1 3 32' x 26' x 8'			777 square				
1130	Commercial Bus Depot							
	The Commercial Bus Depot is provided in the 110 Area. This building has a wooden frame, rectangular-shaped building, has a reinforced concrete floor and foundation walls, stonewall and siding exterior walls, and wallboard interior walls and ceiling. The flat roof is surfaced with composition asphalt felt. The main entrance is covered with "asphalt".			Area				
	Overall Dimensions			Volume				
	27' x 48' x 8'			7,560 cubic				
	Material			Area				
	Concrete			576 square				
	Concrete Flooring			3,240 square				
	Reinforcing Steel Mesh			3,372 square				
	Sheathing			7,440 square				
	Siding			480 square				
	Shingles			2,240 square				
	Asphalt			10 square				
	Wallboard			2,400 square				
	Roofing			47.7 square				
1131	Bus Terminal							
	The bus terminal is provided in the 110 Area for local and inter-area passengers enroute to and from the process areas and for the maintenance of the buses. This was a construction facility, consisting of a gravel surfaced, fenced area 14 x 1240' containing the following structures:			Area				
	Bus Loading Lanes			Volume				
	8 Lanes, approx 140' sq. Heavy wood posts and rails			17,600 cubic				
	Amitting Room			Area				
	40' x 24' x 11'			Area frame, wood and metal, wood floors, wooden and exterior and interior walls, and metal roofing.				
	Bus Maintenance Shop			Volume				
	180' x 112' x 11'			Same construction as				
	Keller House			Area				
	30' x 22' x 16'			Same construction, containing 2 bedrooms, and kitchen, etc.				
	Two Ticket Offices			Area				
	18' x 22' x 11'			Area frame & tile, wood siding walls, cement rock interior, brick lining.				
	Fuel Oil Storage Facility			Volume				
	136 ft. square			8,000 cubic				
1132	Ambulance Garage			Area				
	The Ambulance Garage is provided adjacent to the Hospital in the 110 Area for the storage of the vehicles. The structure has concrete foundation, a concrete floor, wood frame with shingles over sheathing walls and composition single roof.			Volume				
	Ambulance Garage			13				
	Overall Dimensions			7,200 cubic				
	24'x24' x 13'			136 square				
1133	Villars Maintenance Group							
	The Villars Maintenance Group of buildings consists of eleven one-story buildings of temporary construction and design situated within a fenced area 110' x 400'. Seven of these buildings are prefabricated drop siding wooden structures, others are metal hutsments and in two instances the hutsments are joined with a wooden frame construction section. These buildings were originally used by a construction force.			Area				
	Buildings			Volume				
	Parts & Tire Store 120' x 72' x 11'			113,000 cubic				
	Irps. Supplies			Area				
	Seed Storage 60' x 48' x 11'			41,600 square				
	Maintenance Office 60' x 11' x 11'			2,000 square				
	Garden Tools Storage, Baggage			1,700 square				
	Rooms & Seed Distrib.							
	Office 60' x 48' x 11'			2,000 cubic				
	Safety Office 75' x 20' x 11'			16,300 cubic				
	Lawn Mower Shop 48' x 20' x 11'			1,000 cubic				
	Storage hutsments 48' x 12' x 11'			1,000 cubic				
	Trans. Office 48' x 22' x 11'			1,000 cubic				
	Labr. Office Bldg. 48' x 11' x 11'			1,000 cubic				
	Conf. Room 48' x 11' x 11'			2,000 cubic				
	Comfort Station 14' x 18' x 11'			2,000 cubic				
1134	Red Cross Building							
	The Red Cross Building is provided in the 110 Area. This is a one-story, concrete block, rectangular-shaped building with a small reinforced concrete basement. This building is a remodeled existing two-story structure which has a small addition at one corner and a frame fence in the rear yard has been added. Floors are linoleum			Area				
				Volume				
				34,032 cubic				
				270 square				

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**PROJECT COST SUMMARY... MILITARY FUNDS  
 -FINAL DETAIL COST STATEMENT-**

REPORTING OFFICE.....PROJECT DESCRIPTION.....  
 MONTH ENDING.....

ITEM No.	DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS	UNIT COSTS ACTUAL		
			ST. A.	ACTUAL				
1134	Recreation facilities. Interior walls are plastered and ceiling are acoustic tile. Roof is asphalt felt over sheathing.	Overall Dimensions 10' x 10' x 10'	Volume 10 cu. feet.	Area 100 sq. feet.				
1135	Recreational Facilities The recreation facilities provided in Richland under this contract are: 1. 1/2 mile of tennis courts open bleachers opposite the stadium open bleachers for baseball teams baseball diamond including backstop football field and 1/4 mile track 11 softball diamonds including backstops 13 tennis courts including backstops, - asphalt and 3 basketball 1 volleyball court, including standards, benches The stadium, constructed on a natural slope, consists of unrefined bleachers and a raised stage along the upper side. Rest rooms are stone masonry, toilets, showers, ticket office, and press box. Construction is made of lumber. The open bleachers were temporary wood construction at first and moved to permanent in sections and reassembled in concrete footings.	15		154,270	154,270			
1136	Professional building The professional building is provided in the 1100 area. It is a single, one-story frame, cross-gabled building containing four offices for medical and dental offices for the village. The building is supported on concrete and concrete block foundations, and has linoleum covered wood floors. Walls have stucco over sheathing on the exterior and plaster on the interior. Roofing is composition shingles.	Structure Stadium Stadium base Stadium bleachers	Overall Dimensions 14' x 11' x 17' 14' x 11' x 17' 130' x 13'	Volume 10 cu. feet. 10 cu. feet. 10 cu. feet.	Area 144 sq. feet. 144 sq. feet. 144 sq. feet.	Each 1	137,121	137,121
1137	Process hall building The professional building is provided in the 1100 area. It is a single, one-story frame, cross-gabled building containing four offices for medical and dental offices for the village. The building is supported on concrete and concrete block foundations, and has linoleum covered wood floors. Walls have stucco over sheathing on the exterior and plaster on the interior. Roofing is composition shingles.	Overall Dimensions 17' x 17' x 12'	Volume 10 cu. feet.	Area 176 sq. feet.				
	Material Concrete Concrete blocks Asbestos flooring Linoleum Plaster Sheathing Shingles Roofing	Quantity 10 cu. ft. 2,600 blocks 1/2 sq. feet. 1,000 sq. feet. 134 sq. feet. 16.5 sq. feet. 1.1 sq. feet. 117 square						
1138	Salvage Yard A general Salvage Yard for storage of miscellaneous usable plant excess is provided in Richland Village near the warehouse area. The area is completely stabilized and enclosed in a chain link fence and contains no equipment.	Hurment Fenced Area	Overall Dimensions 16' x 40' x 3' 350' x 160'	Volume 5,760 cu. feet.	Area 240 sq. ft. 56,000 sq. ft.	Each 1	2,826	2,826
1139	Dog Pound One Dog Pound is provided for the 1100 area, in two small existing buildings on a tract on the north edge of the Village. Buildings are frame with drop-siding and roll roofing. Newly constructed concrete floors and wire cage pens from Sanford Dog Pound were installed.	Caps. Larger 15 dogs Smaller 5 dogs	Dimensions 18' x 12' x 11' 12' x 16' x 8'	Volume 5,544 cu. ft. 1,636 cu. ft.	Area 504 sq. ft. 12 sq. ft.	Each 1	4,075	4,075
1140	Burning Ground One Burning Ground is provided well away from the Village. This consists of one fenced area with a series of 12' deep trenches for burning needs and another fenced area for paper salvage. 8' high hog wire fencing is used.	Burning Area Paper Salvage Area	Dimensions 350' x 500' 300' x 200'			Each 1	3,121	3,121
1140	Railway Express Agency This building, less than half of which is occupied by the Railway Express Agency, was built for an area warehouse. Its construction is heavy wood frame with wood mud sills, drop-siding over sheathing walls, wood floor, and roll roofing.	Overall Dimensions 112' x 60' x 12'	Volume 107,600 cu. ft.	Area 8,760 sq. ft.		Each 1	14,455	14,455

**PROJECT COST SUMMARY... MILITARY FUNDS**  
**FINAL DETAIL COST STATEMENT ...**

REPORTING OFFICE WAKOKEE COMMERCIAL AREA PROJECT DESCRIPTION FLUOR HYDRO PRODUCTION PLANT  
 MONTH ENDING 31 DECEMBER 1946

CODE No.	DESCRIPTION	UNIT (IF FACTOR)	QUANTITIES		TOTAL COSTS		UNIT COSTS	
			ACTUAL		ACTUAL		ACTUAL	
1141	License Office  The building in which licenses, permits, fees, etc. may be obtained is provided in the 1100 Area. This is a rehabilitated, one-story existing wood frame construction with drop-siding exterior walls, shingle roof, and plaster interior walls.	Each	1		1,226		1,226	
	<u>Dimensions</u> 22' x 36' x 11'	<u>Volume</u> 1,344 cu.ft.	<u>Area</u> 1,326 sq.ft.					
1142	Fire Station  The Fire Stations are provided in the 1100 Area supplementing the main station in the Municipal buildings. One is a new wood frame building with concrete floor and sash and siding exterior, gypsum board interior, and built-up gravel surface roof. A small heater room protrudes on back side. The second is a renovated existing church building of wood frame and composition siding and no floor. A concrete floor was installed and an extension with end stairs added on one side. Nearby is a metal hutment for living quarters.	Each	2		32,893		16,446	
	<u>Capacity Overall Dimensions</u> New 2 trucks 40' x 40' x 12' Existing 3 trucks 28' x 87' x 10' Hutment 22' x 40' x 11'	<u>Volume</u> 2,172 cu.ft. 14,280 cu.ft. 14,100 cu.ft.	<u>Area</u> 1,171 sq.ft. 1,477 sq.ft. 1,117 sq.ft.					
1143	Trailer Storage Area  The Trailer Storage Area is provided for the 1100 Area. Located on the west edge of the village, this area consists of a stabilized area completely enclosed with chain-link fence and lighted with eight flood lights.	Each	1		2,864		2,864	
	<u>Capacity Overall Dimensions</u> 2X trailers 20' x 40' x 10'	<u>Volume</u> 1,144 cu.ft.	<u>Area</u> 1,144 sq.ft.					
1144	Ration Office  A Ration Office was provided in an existing one-story concrete block utility. The partitions were moved, a long counter installed, plumbing facilities changed, and interior painted.	Each	1		414		414	
	<u>Overall Dimensions</u> 34' x 34' x 12'	<u>Volume</u> 13,520 cu.ft.	<u>Area</u> 1,728 sq.ft.					
1145	Substations  Two open wood frame Substations are provided in the 1100 Area. 1145-A has 46,000 13,400 V., 5,310 K.W., and 1145-B 46,000/13,400 V., 12,000 K.W., capacity. Each Substation is erected in a gravel stabilized area surrounded with a wood fence.	Each	2		107,70		53,856	
1146	Public Health Center  A Public Health Center is provided for the village in one of the "L" type dwelling units described in code 1107. This building with three rooms and washroom downstairs and four rooms and bathroom upstairs required miscellaneous carpentry and electrical work.	LS	1		4,446		4,446	
	<u>Overall Dimensions</u> 24' x 32' x 23'	<u>Volume</u> 18,768 cu.ft.	<u>Area</u> 772 sq.ft.					
1147	Fire Alarm Systems  Individual fire Alarm Systems are provided in the 700 and 1100 Areas. These systems have electric-mechanical sirens mounted in Fire Stations, fire houses, etc., and the central recorder station located at Fire Headquarters in the Municipal buildings. Outside sirens and fire alarm boxes are mounted on existing power poles wherever possible. All circuits are 100 or #6 galvanized iron wire carried in most cases on the same poles as telephone lines.	LS	1		58,763		58,763	
	<u>Length of Circuits</u> 700 5,250 feet 1100 145,700 feet	<u>No. of Lines</u> 3 50						
1148	Telephone Cable and Instruments  The 700 and 1100 Areas are serviced by a single telephone system emanating from the 702 - Central Telephone Exchange Building. The main telephone trunk lines are underground within the 1100 Commercial Area only and aerial elsewhere. Aerial and underground cable vary from .08 pair, 22 gauge to 11 pair, 24 gauge. Twisted pair wire drops are used from terminal boxes to building lines. Power poles are used for support where possible.  Approximate quantities are as follows:	LS	1		8,021		8,021	
	<u>Area</u> 700 1100	<u>All Lines</u> 8,800 ft. 485,370 ft.	<u>Cable Lines</u> 4,440 ft. 176,570 ft.	<u>Other Lines</u> 4,420 ft. 312,600 ft.	<u>Phones</u> 402 1,544			
1149	Airport  One Airport is provided in 1100 area. The runways have a bituminous oil surface 75' wide and are graded to 100' wide. They are lighted with antiaircraft, guidance, and range lights. There is one metal hangar, 3 metal hutments, one wood hutment, and a wood-frame control tower which has windows on all four sides.	LS	1		155,731		155,731	

**PROJECT COST SUMMARY - MILITARY FUNDS**  
**-FINAL DETAIL COST STATEMENT...**

REPORTING OFFICE NAME AND ENGINEERS AGREE PROJECT DESCRIPTION PLUTONIUM PRODUCTION PLANT  
 MONTH ENDING 31 DECEMBER 1946

CODE NO.	DESCRIPTION	ACC-UN	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS	UNIT COSTS
				BASED ACTUAL	ACTUAL		
1165	Airport (cont'd.)						
	Structure Dimensions		Area				
	Control Tower 11' x 11' x 46'	5,448 cu.ft.	121 sq.ft.				
	Hanger 40' x 40' x 19'	25,600 cu.ft.	1,620 sq.ft.				
	Bunkers (4) 40' x 22' x 12'	36,000 cu.ft.	3,520 sq.ft.				
	Runways (2) 120' x 75'		180,000 sq.ft.				
	Taxi Strip 40' x 12'		6,000 sq.ft.				
1162	Ground Storage Reservoir and Pump House						
	The Ground Storage Reservoirs, one 1 reservoir Pump House, and one Fire Pump House are provided in the 1162 Area. The two reservoirs are rectangular-shaped, mostly below ground, tanks having reinforced concrete floors and walls and composition asphalt felt surfaced wood roofs. The two Pump Houses have reinforced concrete foundations, floors, and roofs. Walls and partitions are of concrete blocks.		Each	2		233,363	116,681
	Reservoir #1	Reservoir #2					
	Overall Dimensions 20' x 10' x 17'	10' x 10' x 17'					
	Cross-sectional Area 140 cu.feet.	11 cu.feet.					
	Displacement 113 cu.feet.	13.0 cu.feet.					
	Capacity 1,000 gallons	1,000 gallons					
	Consumption Pump House	Fire Pump House					
	Overall Dimensions 12' x 14' x 14'	12' x 30' x 14'					
	Cross-sectional Area 150 cu.feet.	1,740 cu.ft.					
	Displacement Volume 2,400 cu.ft.	2,400 cu.ft.					
	Material	Reservoir #1	Reservoir #2	Consumption	Pump House		
	Concrete (cubic yds.)	100	300	80	80		
	Concrete Piping (cu.ft.)	20,160	12,000	1,400	1,400		
	Reinforced Steel Mesh (sq.ft.)	20,160	12,000	1,400	1,400		
	Concrete Blocks			1,100	1,100		
	8" x 8" squares	140	100	14	14		
1168	Wells and Pumps						
	Steel wells to supply water to the village of Yatima are provided. Four wells were drilled but found unsatisfactory. One well has electrical power pump and three have auxiliary gas line engines. Any one well is a reservoir in itself. houses except one has a frame house, a timber frame which has a raised earthen area at each well. The well pumps deliver into a header tank which supplies water to the main reservoirs.		Each	4		274,567	54,320
1166	Irrigation System						
	An Irrigation System entirely separate from the domestic water system is provided for all parts of the village except in 1164, 1165 and 1166 where tank watering lines connections are connected to the domestic system. This system consists of 1" pipes, laterals, and numerous connections as well as six 1" and 1 1/2" master valves. Water is taken near the Yatima River and the existing irrigation is taken from the river in the Yatima River. Pump buildings are 10' x 14' x 10' x 10' feet, constructed of steel below ground with concrete floors and walls below grade and above grade with siding walls and roll roofing at the grade. Irrigation valves are 1" to 4" diameter throughout and are of various sizes, having been originally built for irrigation in Japan and other locations. One station is included in the first price because it requires 2 1/4" welded steel to 1" gal. steel.		12	1		8,715	432,268
	Buildings	Equip.	OverDimensions	Volume	Area		
	3 Pump Buildings 3 pumps	10' x 14' x 10'	1,000 cu.ft.	40 cu.ft.			
	3 Pump Buildings 2 pumps	10' x 10' x 10'	1,000 cu.ft.	14 cu.ft.			
	Length of Pipe 2 1/2 miles						
	Number of Hose Cars 4,500						
1167	Steam Lines						
	Steam Lines are provided in the 1162 Area to cover steam for heating to Commercial buildings and Bureaucracy. Schedule 40 or less steel pipe is used, diameters ranging from 1 1/2" to 8". The underground lines have "Rock-Bell" protective covering, and the overhead have 45° magnetic insulation and a waterproof jacket. The lines are mostly underground.		Line	8 ft.		17,140	17,140
	Length of Steam Lines						
	Area 8" 6" 6" 4" 3 1/2" 2 1/2" 2" 1 1/2" Total	8" 6" 6" 4" 3 1/2" 2 1/2" 2" 1 1/2" Total					
	1165 889 1,025 1,025 470 570 570 1,100 1,100 18,700						
1168	Furnished Housing						
	This account covers finished building work performed the village Highland. A layer of topsoil was applied over the sand through which much of the village, and other seed was planted in private or public buildings.		12	1		1,438,137	1,438,137
1169	Furniture and Fixtures						
	This account covers the initial furnishing and equipment of the government furniture for the buildings in Highland Village. Approximately 30% of the buildings were furnished for Contractor and Government employees during the construction period. In addition refrigerators and electric ranges were furnished in every other building and in the prefabricated dwellings. Some furniture was placed in existing houses adjacent to the village.		14	1		2,734,41	2,734,41
	Total Furniture, Fixtures, Equipment, Tools, Office Supplies, etc.					45,741,32	
	Total Furniture					43,671,28	

**SECRET**

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**PROJECT COST SUMMARY --- MILITARY FUNDS**  
**--FINAL DETAIL COST STATEMENT--**

REPORTING OFFICE

HAWK RD ENGINEER AC FFS

PROJECT DESCRIPTION

FUJI SHIM PRODUCTION PLANT

MONTH ENDING

31 DECEMBER 1946

CODE & NO.	ACCOUNT DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS	FACTORIALS
			STANDARD	ACTUAL		
	<b>SPECIAL CONSTRUCTION FEATURES:</b> Manford Camp and Commercial Facilities, Temporary Construction, Maintenance of Farm Lands during Construction, Central Equipment Repair Shops, and Similar Features of Construction Work not normally applicable to a Construction Contract.					
	<b>PANFORD CAMP AND COMMERCIAL FACILITIES:</b>					
FE-27	Operating Income and Expense (Camp and Village)	LS	1		18,624,230	18,624,230
	This account covers the expenses (less revenue) of operating the Manford Construction Camp and the operation of Highland Village prior to being taken over by permanent camp, however, only a small portion of the total cost is applicable to operation of Highland Village. Items covered by this account include Olympic Commission Expenses; Fire Protection; Police Protection; Maintenance Labor and Materials; Supervision; Administrative Expenses; and Miscellaneous General (Operating Expenses). All revenues were credited to this account.					
HC-1	Temporary buildings	LS	1		751,246	751,246
	Temporary buildings were provided in Manford Camp in several types. Men were housed in an "H" shaped structure consisting of four wings of sleeping rooms and a washroom placed to form the tail of the "H" and in latrine buttments. No frame bathhouse was provided for each 24 hutsments. Women were housed in an "H" shaped structure consisting of two wings and a wash room. Both men's and women's barracks and the bathhouses were wood-frame, shingle-roofed structures with gypsum board exterior and interior walls, and roll roofing. Floors were wood except in wash rooms and bath houses where concrete was used. Pacific huts were plywood with insulation lining and plywood floors. Each men's barrack housed 1-1 men. Each women's barrack housed 70 women, and each buttment housed 11 men in each 40' sections.					
	<u>Area of Building No. of Bldgs. Dimensions Volume Area</u>					
	4-Wing Type Barracks 141 11' x 33' x 11' 11,670 cu. ft. 1,400 sq. ft.					
	4-Wings 8 30' x 12' x 13' 221,600 cu. ft. 17,400 sq. ft.					
	Utility Room 30' x 8' x 13' 34,500 cu. ft. 1,400 sq. ft.					
	4 Halls 6' x 11' x 11' 1,100 cu. ft. 100 sq. ft.					
	2-Wing Type Barracks 64 11' x 14' x 13' 18,412 cu. ft. 19,110 sq. ft.					
	2-Wings 30' x 12' x 13' 114,640 cu. ft. 1,200 sq. ft.					
	Test Room 24' x 30' x 13' 24,300 cu. ft.					
	Laundry Room 8 13' x 20' x 13' 10,640 cu. ft.					
	Utility Room 10' x 11' x 13' 6' x 10' x 9' 1,200 cu. ft. 600 sq. ft.					
	Hutsments 330 18' x 30' x 13' 11,620 cu. ft. 1,200 sq. ft.					
	252 18' x 30' x 13' 6,760 cu. ft. 640 sq. ft.					
	Hutment Bath Houses 44 30' x 12' x 13' 74,320 cu. ft. 2,640 sq. ft.					
HC-2	Trailer Service Buildings and facilities	LS	1		1,341,143	1,341,143
	A total of seven Trailer Camps was constructed, providing accommodations for 1,000 privately owned trailer houses. Five are adjacent to each other in the west part of Manford, No. 6 is on the South side, and No. 7 is adjacent to the enlarged barracks of Manford. Laundry Lots, Playgrounds and To serve the occupants of the temporary bathhouses, Clothes Drying Lots, Playgrounds and a Trailer Office were provided. The Ice houses, Coal Storage Buildings, Washhouse, and Dog Pound are charged to TC-10. Facilities such as water lines, electric lines, telephone and such are charged to TC-4. Running water was supplied to each lot as was a sewer drain. Bathhouses were provided for each twenty-one families approximately, and contains men's and women's showers and toilet rooms, laundry room, utility room and closet. Construction is frame with gypsum board exterior and interior walls, roll roofing, and concrete floors. Clothes drying lots were located at each bathhouse. Thirty-nine playgrounds were set aside, containing swings, sand boxes, and teeter-totter boards. The Trailer Office was a one-story wood frame existing house with a totter board. A canopy was constructed over each trailer lot use. The Pacific Hut erected nearby. A canopy was constructed over each trailer lot use. Construction was wood frame and sisal-craft paper roofing.					
	<u>Buildings No. of Bldgs. Dimensions Volume Area</u>					
		cu. ft. sq. ft.				
	Trailer Lots 118 40' x 40' 1,600 1,600					
	Trailer Lots 2450 28' x 4' 1,040 1,040					
	Trailer Canopies 3639 16' x 20' x 12' 3,640 320 320					
	Bathhouses 15 30' x 34' x 11' 11,220 1,050 1,050					
	Clothes Drying Lots 13 52' x 80' 4,190 4,190					
	Office (Rehab.Bees.) 1 33' x 37' x 10' 11,115 1,221 1,221					
	Janitor's Office 1 16' x 40' x 11' 11,620 1,200 1,200					
	Playgrounds 20 75' x 10' 6,000 6,000					
	Playground 19 40' x 160' 12,000 12,000					
HC-3	Mess Halls	LS	1		1,531,146	1,531,146
	Eight Mess Halls were constructed at Central locations for the purpose of feeding personnel housed in the Manford Camp Area. Other service buildings necessary for the operation of the Mess Halls were also provided, such as: Eight warehouses, a Sandwich and Bake Shop, and Evisceration Building, and a Fat Rendering Building. Miscellaneous small buildings were constructed under TC-10. Five Mess Halls were erected along "H" Avenue and the other three South of them. The buildings were generally similar throughout, seating 2,600. Construction was wood-frame, one-story, gypsum board exterior walls, roll roofing, wood floors in dining sections, and concrete floors in kitchen sections. The dining areas are at either ends with a kitchen between. A warehouse of similar construction was attached by a hallway to the kitchen section of each Mess Hall. In the Sandwich and Bake Shop were prepared the hot lunches for the field workers. The Evisceration building was necessary due to inability to buy eviscerated poultry. A Fat Rendering Building was provided in which some 2,000 lbs. of fat were rendered daily during the peak months. These buildings were of the same general construction as the Mess Halls.					
	A large number of Cold Storage Rooms were constructed in these buildings and warehouses.					

**PROJECT COST SUMMARY... MILITARY FUNDS**  
**-FINAL DETAIL COST STATEMENT...**

REPORTING OFFICE..... PROJECT DESCRIPTION..... PLUTONIUM PRODUCTION PLANT  
 MONTH ENDING..... 31 DECEMBER 1948

CODE NO.	DESCRIPTION	ACCOUNT		UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
		No. of Bldgs.	Dimensions		Volume cu.ft.	Area sq.ft.	ACTUAL	ACTUAL	ACTUAL	ACTUAL
HC-3	Mass Halls (continued)									
	Mess Hall #1	1	176'x418'x27" (Overall)	781,764	54,120					
	Mess Hall #2-8	7	176'x270'x27" (Overall)	718,956	48,928					
	Dining Hall #1(2)		120'x180'x14'	537,600	56,430					
	Kitchens		40'x120'x22"	106,600	4,800					
	Memorial Warehouses	8	60'x128'x13'-6"	101,092	7,660					
	Sandwich & Bake Shop	1	96'x192'x13'	272,896	31,192					
			32'x80'x13'							
	Evacuation Building	1	120'x12'x12"	260,320	20,862					
	Lat Rendering Buildings	1	15'x18'x10'-6"	3,711	361					
HC-4	Commercial Store Buildings			LS	1		168,230		168,230	
	All buildings for housing Commercial Contracts and Facilities in the Hanford Camp Area, except for a few minor concessions were provided by the Project. A total of 17 buildings were provided, four of which were rehabilitated existing store buildings, four were new one-story wood-frame, gypsum board siding structures, and the others were hutsments.									
	Building	No. of Bldgs.	Dimensions	Volume cu.ft.	Area sq.ft.	Construction				
	Grocery Stores #1 & 2	2	74'x12'x12'	166,886	13,824	Wood frame & firers, gypsum board exterior & interior walls, roll roofing				
	Sears-Roebuck	1	128'x36'x12'	147,486	12,288	Same as grocery stores				
	Western Union Building	1	25'x80'x10'	15,000	1,500	Same				
	Shoe/Sales Store	1	64'x10'x12'	38,480	3,140	Rehabilitated, wood frame				
	Shoe Repair Shop	1	16'x40'x8'	5,760	640	Pacific Nutment				
	Ladies Ready to Wear	1	30x40'x12'	21,600	1,500	Rehabilitated concrete blocks				
	Cerment Alteration Shop	1	20'x40'x12'	2,600	800	Part of above tiles				
	Shoe Repair Shop	1	12'x27'x8'	2,916	324	Wood frame				
	Tire Store	1	16'x30'x8'	11,820	1,120	Pacific Nutment				
	Boot Lear Hut	1	16x40'x8'	5,760	640	Same				
	Tire Store	1	16'x40'x8'	5,760	640	Same				
	Clothing Store #1	1	16'x80'x8'	5,760	1,280	Same				
	Clothing Store/Furniture	1	16'x40'x8'	1,700	240	Same				
	Clothing Store #2	1	16'x80'x8'	11,820	1,280	Same				
	Optometrists Shop	1	20'x40'x12'	2,600	800	Rehabilitated frame stores				
	Jewelry Shop	1	16'x40'x8'			2 Pacific Nutments				
	Fixit Shop	1	16'x10'x8'	5,760	640	Pacific Nutments				
HC-5	Theatres			Each	2		176,717		88,370	
	Two Motion Picture Theatres were constructed at Hanford, one in the shopping center seating 1,500 and one adjacent to the Colored Recreation Hall seating 500. Prior to completion of these theatres, other theatres were established as well as a circuit tent. Construction of both buildings was two-story, wood frame, with gypsum board exterior, roll roofing, interior lining, and concrete floor and foundation. Large theatre has lean-to addition for stage and foyers.									
	Theatre	Cap.	Dimensions	Volume	Area					
	Hanford	1,500	77'x148'x35" (Overall)	473,144 cu.ft.	13,764 sq.ft.					
	Main Section		76'x143'x4"x35'	3,1,300	11,180					
	Stage		78'x16'x4"x26"	52,000	7,080					
	Foyer		78'x16'x12'	16,468	1,404					
	Volley	500	40'x124'x32"	18,720	4,460					
HC-6	Commissary Buildings			Each	4		366,416		88,104	
	Four large, wood frame, flat roof, buildings were erected at central locations in the Hanford Area to provide the workers with recreational facilities. Construction is wood post and girder, wood and concrete floors, gypsum board interior and exterior walls, and roll roofing. A canteen was operated in the basement of an existing concrete block building and a snack bar was operated in a Pacific hutment. The terraces of buildings were also used for recreational purposes as one part of Mess Hall #1.									
	Commissary Bldg., No. & Name		Dimensions	Volume	Area	Capacity of				
	1 - White Men's Recreations Hall		120'x252'x11'	756,754	6,120	440				
	2 - Colored Recreations Hall		112'x192'x11'	236,144	21,504	500				
	3 - Women's Refreshment Center		120'x144'x11'	207,240	18,840	320				
	4 - White Tavern		112'x112'x11'	236,544	21,104	630				
	Orange Hall Canteen		40'x70'x20'	16,000	2,400					
	Snack Bar		16'x40'x9'	5,760	640					
HC-8	Garage Repair Shop			Each	2		48,130		17,568	
	Four separate garages and Service Stations serviced private cars in Hanford Camp. They were privately owned and will not be described. Service Station #1 consisted of two sheet metal, pre-fabricated buildings and canopies furnished by the Midfield Oil Corporation. Building contained sales room, toilets, equipment for minor repairs and tire service plus dispensing of gas, oil and grease. Floors and foundations were concrete. Station #2 consisted of a rehabilitated, one-story frame residence to which was added a new frame shed, and a rehabilitated frame barn to which was added a frame service shed. A propane gas tank was set in concrete piers close by.									
	Service Station #1	2 bldgs.	Dimensions	Volume	Area					
	Service Station #2	1 bldg.	22'x33'x13' 6"	13,640 cu.ft.	1,350 sq.ft.					
		1 bldg.	18'x28'x8"x10'							
		1 bldg.	22'x34'x12' 4"	13,776 cu.ft.	1,228 sq.ft.					
		1 bldg.	16'x30'x10'							
		1 bldg.	16'x18'x10' 4"	13,770 cu.ft.	1,106 sq.ft.					
			30'x6'x14'							

**SECRET**

**PROJECT COST SUMMARY--MILITARY FUNDS**  
**--FINAL DETAIL COST STATEMENT--**

REPORTING OFFICE HANFORD ENGINEERS 201 PROJECT DESCRIPTION HANFORD PRODUCTION PLANT  
MONTH ENDING 31 DECEMBER 1946

CODE NO.	DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT 20-74	
			ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
<b>SPECIAL CONSTRUCTION FEATURES (Continued):</b>								
HC-9	Combined Stores Buildings Two one-story, wood frame, "T"-shaped shed-type buildings were erected in the camp area for the purpose of housing jointly more than one commercial facility. Each contained a Drug Store, Barber Shop, Beauty Parlor, Storage Room, and #1 also contained a Notary Public Office and mail apartment. Construction was gypsum board exterior and interior surfaced walls, wood floors and roll roofing.	Each	2		77,425		57,425	
	Overall Dimensions Store #1 11' x 15' x 12' Store #2 10' x 15' x 12'	Volume 11,500 cu.ft. 14,000 cu.ft.	Area 150 sq.ft. 180 sq.ft.					
HC-10	Laundry During the course of construction five buildings were used for collecting, storing and dispensing of public laundry and dry cleaning. No laundry or dry cleaning work was performed on the project by the operators, although a pressing service was maintained.	ea	1		6,110		6,110	
	No. of Buildings Laundry Building Dry Cleaning & Pressing Building Dispensing Huts	Dimensions 10' x 15' x 12'	Volume 21,600 cu.ft. 21,600 cu.ft. 5,260 cu.ft.	Area 1,000 sq.ft. 1,000 sq.ft. 40 sq.ft.	Construction Rehabilitated existing frame bldg. Rehabilitated existing concrete block Tentile Hut			
HC-11	Bank One Bank Building, of one-story, wood frame construction, containing two reinforced concrete vaults, was constructed in the Hanford Central Charging Center, to provide banking facilities for the construction employees, camp commercial facilities and construction administration purposes. Shortly after the building was opened, it was doubled in size, and then later a lean-to section and second vault was added to handle the increasing volume of business. Teller booths and cashier windows lined both sides of the building lengthwise. The accounting, banking, and office sections occupied the lean-to addition along one entire side. The line of 4 tellers windows on one side were used chiefly on the weekly payday evening.	Each	1		12,405		12,405	
	Overall Dimensions 50' x 140' x 14'	Volume 137,000 cu.ft.	Area 9,000 sq.ft.					
HC-12	Post Office One Post Office Building was provided at Hanford Camp. This building had a large lobby, twelve general delivery windows, mail sorting room, C.O.D. room, outgoing mail room with 4 windows, and incoming mail room. The construction was one-story, wood-frame, wood floors, gypsum board siding and interior linings, and rolled roofing.	Each	1		29,215		29,215	
	Overall Dimensions 56' x 120' x 12'	Volume 136,820 cu.ft.	Area 11,820 sq.ft.					
HC-13	Bowling Alley A one-story, wood frame, rectangular-shaped building was provided for bowling alleys at Hanford Camp. Twelve alleys were leased and installed. A soda fountain and a small apartment are located at the entrance end. Construction is exterior gypsum board, gypsum board linings, wood floors except concrete in toilets, and roll roofing. Ventilation equipment was housed in a frame lean-to-addition.	Each	1		14,762		14,762	
	Overall Dimensions 91' x 128' x 16'	Volume 106,348 cu.ft.	Area 11,848 sq.ft.					
HC-15	Churches The existing frame Church was first used, and then a large frame annex, called Community Service and Welfare Building, seating 524 persons, was added. Class rooms, vestry, choir room, library, Pastor's room, reception room, office, kitchen, and toilets were included. Construction was gypsum board exterior and interior, wood floors, and roll roofing. Catholic Church services were held in a large canvas tent in which steam heat and wood floor were provided. Later the auditorium was used. One wing of Barracks 201 was used for the Colored Church. The existing Grange Hall and Masonic Buildings were also used.	Each	1		37,505		37,505	
	Existing Church Community Service & Welfare Bldg. Overall Dimensions 50' x 70' x 18'	Volume 71,000 cu.ft.	Area 7,500 sq.ft.					
		138,020 cu.ft.	7,700 sq.ft.					

**SECRET**

**PROJECT COST SUMMARY - MILITARY FUNDS**  
**-FINAL DETAIL COST STATEMENT-**

REPORTING OFFICE

HANFORD ENGINEER TYPE

PROJECT DESCRIPTION

PLUTONIUM PRODUCTION PLANT

MONTH ENDING

31 DECEMBER 1945

CCDE NO	ACCOUNT DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
			ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
HC-15	Churches (Continued)							
	Catholic Church	Overall Dimensions 100' x 200' (tent)	Volume	Area 20,000 sq.ft.				
HC-16	Auditorium	This Auditorium was provided for large group recreational activities and administrative functions. Construction was two-story, wood-frame with columns and truss supported roof main section and lean-to sheds on all four sides. Floors were wood except concrete in wash room; walls were gypsum board exterior and gypsum board and celotex interior linings; and roof was roll roofing. A Pacific Hut was used for chair storage.	Each	1	219,977	219,977		
	Overall Dimensions 100' x 206'-8" x 36'	Volume	Area 15,946 sq.ft.					
	Main Section 110' x 100' x 24'	701,000 cu.ft.	22,140 sq.ft.					
	Hutment 16' x 40' x 20'	5,700 cu.ft.	640 sq.ft.					
HC-17	Commercial Bus Depot	A Depot for Commercial Bus Lines was provided adjacent to the employment office. It was a one-story, "L"-shaped, wood-frame building containing a waiting room, ticket office, and four wash rooms. Construction was gypsum board exterior and interior walls, roll roofing, and wood floors.	Each	1	10,931	10,931		
	Overall Dimensions 18' x 50' x 14'	Volume	Area 1,776 sq.ft.					
TC-11	Temporary Camp Area (Hanford)	Included under this account are the utilities and many facilities for the Hanford Camp Areas. Other facilities are listed under Plant Wide Temporary Construction Account. Water pipe over 4" dia. was wood staves, 4" and steel pipe. All other was steel pipe. Sewer pipes were vitrified clay and concrete. Construction of buildings was chiefly wood frame with gypsum board exterior walls, wood floors, and rolled roofing. Many existing buildings were used with varying amounts of remodeling, as well as many hutsments, both metal and plywood, and sectional prefabricated buildings. Water tanks were both wood and steel.	LS	1	4,775,115	4,775,115		
	Code No.	Services	Length	Buildings				
	4.5	Water Lines	117,075'	New 26 Existing 1				
	4.6	Electric Lines	321,300'					
	4.7	General Grading						
	4.8	Sewers and Septic Tanks	214,250'	9				
	4.9	Misc. Temp. Constr.	53	12				
	4.10	Fire Stations	5					
	4.11	School Bldgs.	6	2				
	4.12	Locomotive & Boiler Repair Shop	1					
	4.13	Public Address System	33 Installations					
HC-18	Ice Plant and Cold Storage Building	The existing Cold Storage and Ice Plant at White Bluffs was repaired and improved to provide such facilities on the area. Additional space was leased in privately owned plants outside the area, (see tabulation). The White Bluffs plant consisted of a factory reinforced-concrete structure with wood frame office and loading platform at the West end. A two-story tile warehouse with roll roofing on wood frame is located at East end and a small frame pump house just South of the main building. New construction was a factory wood-frame addition containing a freight elevator and connected trucking corridors.	LS	1	105,418	105,418		
	Overall Dimensions	Volume	Area					
	Cold Storage Building 110' x 120' x 14'	1,114,000 cu.ft.	12,072 sq.ft.					
	New Addition 70' x 80' x 14'	7,400	460					
	Warehouse 30' x 110' x 20'	0,000	3,300					
	Leased Storage							
	A-H. Avery, Pasco, Wn. Pasco Growers, Pasco, Wn.	8 rooms 2 rooms	9,600 19,000	460 1,000				
	Western Cold Storage Moses Lake, Wash.	4 rooms	162,960	16,296				
HC-44	Hotels, Dormitories & Rooming House Buildings	Living quarters for many persons were provided throughout the construction period at off-plant locations. At Prosser, white women were housed in a hotel until Hanford barracks were constructed. At Pasco, bus drivers were housed, and baggage handled. All other housing was to provide overnight accommodations for incoming workers until they could be assigned to barracks in Hanford. The stores and hotel buildings were leased; the Little Pasco buildings loaned from a Government agency and the hutsments were Project owned. Toilet facilities were installed in several leased buildings.	LS	1	212,098	212,098		

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**PROJECT COST SUMMARY - MILITARY FUNDS**  
**-FINAL DETAIL COST STATEMENT-**

REPORTING OFFICE.....

HANFORD ENGINEERS GROUP

PROJECT DESCRIPTION.....

FEBRUARY 1945

MONTH ENDING.....

31 DECEMBER 1945

CODE NO.	ACCOUNT DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
			ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
GC-41	Hotels, Dormitories & Rooming House Buildings (Continued)  FASCO Building No. Dimensions Volume Area Description Gray Building 1 10'x10'x12' 10,000 1,000 2-story brick store Garage Room 1 10'x10'x12' 10,000 1,000 1-story brick store Duck Inn Inn 1 10'x10'x12' 10,000 1,000 1-story brick and concrete store  Reception and Information Bldg. 1 10'x10'x12' 10,000 1,000 2 Pacific huts joined in "T" shape with gypsum board siding at corners.  LITTLE FARM Barracks 8 10'x10'x12' 80,000 8,000 Wood frame, wood floor, tar paper over sheathing walls and roof.  Peth Houses 2 10'x10'x12' 8,000 800 Same except concrete floor Fire Station 1 20'x10'x12' 20,000 2,000 Same, wood floor Mess Hall 1 10'x10'x12' 10,000 1,000 Same Overflow Barracks 1 10'x10'x12' 10,000 1,000 Pacific Hut MESSER Hotel for Women 1 2-story, brick hotel  Sub-Total HANFORD CAMP AND COMMERCIAL FACILITIES							
	TEMPORARY CONSTRUCTION				37,200.00			
TC-1	Construction Administration and Service Area  The Construction Administration and Service Group was comprised of a total of 16 buildings, 24 new construction and 2 existing buildings. All were located within a large block or faced the lock's boundary streets except the Bus Maintenance garage and Convalescent Hospital. Facilities serving these buildings were shared to other accounts. Most of the buildings were typical temporary construction. Temporary accounts. Most of the buildings were the typical temporary construction. Temporary accounts. Wood-framed, with gypsum board exterior, gypsum board and asbestos interior linings, roll roofing, and wood floors. Vaults and fire walls were constructed of concrete and brick, and Ordnance Building was reinforced concrete.	LS	1	2,270.00	2,270.00			
	Overall Dimensions Volume Area Remarks							
TC 1.1	Building Main Construction Office Building - five wings with main corridor passing thru apexes, midpoint of each	10'x10'x12' 10,000 1,000						
TC 1.2	Training & Relations, Investigation, Termination & Transfer Bldg.	14'x10'x12' 10,000 1,000						
TC 1.2	Employment Building	10'x20'x12' 13,400 1,000						
TC 1.2	Hospital-First Aid & Clinic "U" shaped with many wings	36'x37'x12' 10,400 1,000						
TC 1.3	Guard Headquarters "L" shaped	110'x120'x12' 15,440 11,120 Brick Jail						
	Patrol Tr. Pldg.	16'x100'x10' 16,000 1,000						
	Patrol Supply Bldg.	22'x110'x12' 27,720 1,000 Metal Hut						
	Radio Repair Bldg.	22'x10'x12' 2,404 1,000 Metal Hut						
TC 1.4	Service Bldg. (Hanford Housing) "L" Shaped	30'x110'x12' 105,600 8,000						
TC 1.5	Telephone Bldg. "L" Shaped 12'x30'x11'	12,642 1,000						
TC 1.6	Auto Wash Rack	21'x32'x12' 2,216 768 Concrete Floor						
	Driver's Examination Building	12'x100'x12' 2,100 500 Relocated Existing Frame House						
	Fundigation Chamber	25'x10'x12' 6,578 500 Relocated Existing Frame House						
	Bedding Storage hut	16'x12'x9' 5,760 640 Pacific Hut						
	Lunch Hut (2)	16'x10'x9' 5,760 640 Pacific Huts						
	Canteen Hut	16'x10'x9' 5,760 640 Pacific Hut						
	Original Orientation Building	20'x60'x12' 14,400 1,000 Remodeled Existing Frame Store Bldg.						
	Ordnance Building	16'x16'x10' 2,000 256 Reinforced concrete 12" thick						
	Guard Post Building	6'x10'x8' 268 36						
	Petrol Storage Bldg.	16'x20'x10' 1,200 320						
TC 1.7	Time Office & Payroll Bldg. "H" Shaped	100'x30'x12' 18,000 32,000						
TC 1.8	Piping Subcontractor's "V" Shaped	130'x120'x12' 13,600 12,244 One Brick Vault						
TC 1.9	Bus Maintenance Building 160'x160'x16" "L" Shaped	16,000 24,000						

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**PROJECT COST SUMMARY... MILITARY FUNDS  
..FINAL DETAIL COST STATEMENT ..**

REPORTING OFFICE.....PROJECT DESCRIPTION.....MONTH ENDING.....

31 DECEMBER 1946

CODE NO.	DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
			ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
TC-1	Construction Administration and Service Areas (Continued)							
	Code No. Building	Overall Dimensions	Volume	Area	Remarks			
	TC 1.10 Military Intelligence Building	30'x100'x12'	45,600	4,700				
	TC 1.11 Subcontractor's Garage Office	15'x110'x12'	52,800	4,800				
	TC 1.12 Convalescent & Isolation Hospital & Public Health Bldg. 6 wings and main corridor	100'x90'x12'	92,400	71,000				
TC-5	Roads and Walks							
	Temporary Roads, Parking Areas, and Walks were provided in Hanford Camp and a small number of other locations. Except for Hanford Camp many of the roads were built on the lines of the permanent roads and served as a base for the permanent roads. Bituminous surfacing was used on walks and roads in Hanford Camp Area only. Only a few parking areas were oil treated for dust prevention.							
	Length in Miles							
	Hanford Camp Roads	10.24	Bituminous Surface	29,91	Total	64.75		
	Misc. Roads	-	-	4,607	-	46.07		
	Walks	22.10	-	-	-	22.10		
	Area in Square Feet							
	Parking Lots	(3) 350,000 sq.ft.	Oil Treated	1,360,00	Total	2,110,000		
TC-6	Railroads							
	Temporary Railroad track for construction purposes only was provided as listed below. All track was standard gauge and all rail was 100 to 150 per yard, used.							
	White Bluffs	10,046	ft.					
	Hanford to White Bluffs	53,587.38						
	100 - 150 ft.	17,677.77						
	200 - 8 x 7	51,031.46						
	Bickland	7,021.18						
	Haven Pit	1,300.76						
	RF Arg. Pit	1,200						
	Miscellaneous	1,012.14						
	Total	100,176.27	ft. or 51.62 miles					
TC-7	Wells and Water Lines							
	Water was supplied to the various construction areas from river pumping stations, both temporary and existing, and wells, both drilled and existing. Each 100-Area was supplied by a marine pumping station; all 200-Areas and Central Shops were supplied from the McGe-Allard Lines; White Bluffs from existing wells; and the 4000 Area and Little Pasco from driven wells. The McGe-Allard System consisted of the existing McGe artesian well and the existing Coyote Pumping Station. The wells from these two supplies were approximately 10 miles and 5 miles long, of both wood and steel pipe of 12" diameter. Distribution lines totaled about 6 miles. Chlorinating units were installed at all pumps and booster stations.							
	A tabulation of approximate quantities follows:							
	Quantity		Total Capacity					
	Wells	8 driven, 1 artesian						
	Marine Pumping Stations	3 temporary, 1 permanent						
	Booster Stations	2 (with frame houses)						
	Ground Storage Tanks	10 (wood)	365,000 gals.					
	Elevated Storage Tanks	4	310,000 gals.					
	Chlorinator Houses	6						
	Railroad Water Stations	3	75,000 gals.					
	Steel Pipe	178,855 ft.						
	Wood Pipe	80,685 ft.						
TC-8	Electric Lines							
	Electric Power for construction was furnished through the existing facilities. Sources of supply were Pacific Power and Light Company substations at Hanford, White Bluffs, Alard, and Bickland; the Bonneville Power Administration line between Midway and Walla Walla; and the Priest Rapids Hydro-Electric Generating Plant. Taps were made from these substations and lines and connected to temporary primary substations as follows:							
	Substation		Capacity					
	100-B		3000 KVA					
	100-B		3000 KVA					

**PROJECT COST SUMMARY--MILITARY FUNDS**  
**--FINAL DETAIL COST STATEMENT--**

REPORTING OFFICE.....PROJECT DESCRIPTION.....  
 HANFORD ENGINEER WORKS.....PLUTONIUM PRODUCTION PLANT  
 MONTH ENDING.....NOVEMBER 1946

CODE NO.	DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
			ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
TC-8	Electric Lines (Continued)							
	Substations	Capacity						
	100-F	3000 KVA						
	200-S	5000 KVA						
	200-N	5000 KVA						
	Hanford Admin.	5000 KVA						
	Hanford Barracks	3000 KVA						
	Approximately 19 miles of 66 KV lines were constructed into the construction areas, plus 19 miles of 6.9 KV was constructed to shops, wells, and subcontractor installations.							
TC-11	Sewers and Septic Tanks							
	Temporary Sewers and Septic Tanks constructed outside of Hanford Camp were constructed under this code. These facilities were for a limited number of office buildings only. Septic tanks were of wood construction and Sewer lines and Tile Fields were vitrified clay pipe, except concrete pipe was used in the 1100 Area. The two temporary units for the 700 and 1100 Areas used Imhoff tanks and Chlorinating units prior to completion of permanent Sewage Plant. A tabulation of facilities follows:		LS	1	36,304		36,304	
	Septic Tanks	Settling Basins						
	White Bluffs	1	30' x 4'					
	3000 Area	1	31' x 5'					
	Central Shops Area	1 - 30'x60' Wood	4 - 30'x60' Earth Dikes	8 units				
	100-B	2 - 4'x6' Wood		500'				
	100-D	2 - 4'x6' Wood		600'				
	100-F	2 - 8'x15'x5' Wood		1500'				
	200-E	1 - 6'x12'x6' Wood		400'				
	200-N	Used Permanent Tank		700'				
	700 - 1100	Two Sewage Disposal Units, each with 14'x2' Wood Imhoff tank & 600' Concrete pipe						
TC-15	Steam Lines and Boiler Houses							
	Steam was required in Hanford Camp, Central Shop Area, 3000 Area Camp and some special buildings for heating, in some areas for concrete curing, for cleaning refuse containers, and for temporary steam-generating plants.		LS	1	2,702,040		2,702,040	
	A total of 25 semi-permanent boiler houses were erected: 18 in Hanford Camp, 4 in Central Shops, 1 in 3000 Area. Buildings were one-story, wood-frame, post and girder construction, with gypsum board siding and roll roofing. Soft water storage tanks were wood staves. Majority of houses had 100 H.P., hand fired, horizontal boilers, in batteries of up to eight boilers. Other boilers ranged from 10 to 100 H.P.. Five railroad locomotives were connected in parallel to service the 110 building with 1500 H.P. and portable boilers varying from 10 to 100 H.P. were used as work demands throughout the area. The 24 boiler houses contained 115 boilers with total rating of 2638 H.P.s.							
	Approximately 50.5 miles of temporary plant-wide steam lines, varying in size from 1" to 12", were required. More than 50% of these were in Hanford Camp. Lines were overhead steel pipes, 50% magnesium insulated, and weather-proof paper covered. Supports were wood poles.							
TC-16	Temporary Telephone Lines							
	Temporary Telephone Lines as well as the permanent lines were provided under the direction of the Signal Corps. The existing lines of five companies were utilized until temporary and permanent lines could be constructed, and wherever possible only permanent lines were constructed. Temporary switchboards were installed in Pasco in the Gray Bldg., 20 lines; in Richland, 40 lines; in Hanford, 75 lines, and in Central Shops Area, 75 lines. Approximately 1600 telephones were put in service.		LS	1	10,914		10,914	
TC-17	Telephone Repeater Station							
	One Telephone Repeater Station in a small concrete and concrete block building was constructed on the main trunk line just north of the 300 Area to improve temporary telephone transmission.		LS	1	5,104		5,104	
TC-101	Special Fabrication Area							
	One Special Fabrication Building was provided for the preparation of the graphite blocks used in the 105 and 305 buildings, and also a large warehouse and an office building. Construction of fabrication building was concrete foundations and floors; wood frame and roof with built-up roofing; drop-siding walls; and cement block fire walls. Warehouse and office were wood frame, with gypsum board exteriors and roll roofing.		LS	1	1,251,624		1,251,624	
	Overall Dimensions	Volume	Area					
	8' x 30' x 30'	512 cu.ft.	64 sq.ft.					
	Special Fabrication Building	172' x 391' x 25'	64,392 sq.ft.					
	Sub-Total				10,323,155			

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**PROJECT COST SUMMARY... MILITARY FUNDS  
 -FINAL DETAIL COST STATEMENT...**

REPORTING OFFICE..... PROJECT DESCRIPTION..... AUTOMIUM PRODUCTION PLANT  
 MONTH ENDING..... 31 DECEMBER 1946

CODE NO.	DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS	
			ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
<b>HANFORD AIRPORT:</b>								
TC-14	Hanford Airport	Each	1		70,555		70,555	
An Airport was provided near the Hanford Camp for air express deliveries. The Airport consisted of two landing strips with bituminous pavement 200 feet wide. #3 strip was 4000 feet long and #2 2100 feet long. Two wood frame open type hangars and a 15'x10' Pacific hutment were provided, also pumps and underground gasoline storage tanks. A three strand barbed wire fence enclosed the area. A single lane, 30' wide, black top landing strip 2000 feet long was originally constructed nearer Hanford, but was abandoned.								
Sub-Total								
<b>CENTRAL EQUIPMENT AREA - HANFORD:</b>								
TC-15	Central Shops Area	EA	1		1,070,050		1,070,050	
A Shops Area for repairing equipment, and furnishing other construction services was provided at a site centrally located with respect to the 100 and 200 Areas. Here were established such buildings as Craft Administration Office, Layout Office, Inspection Office, Transportation Garage and Offices, Machine, Sheet Metal, Electrical and Paint Shops, Crane Repair and Rigging's Loft, Fuel Storage, and Drinking Water Distribution buildings. Altogether sixty-seven (67) buildings were constructed, of which 37 are frame, 24 are metal hutsments, 2 prefabricated frame, and the balance are platforms and fenced tank areas.								
Sub-Total								
<b>3000 AREA BARRACKS:</b>								
XC-51B	Bunk House Buildings	Each	6		250,146		41,689	
XC-51E	Bunk House Buildings Equipment	Each	6		28,644		3,447	
Five men's and one women's Bunk House Buildings are provided in the 3000 Area. Construction and design are same as in Hanford Camp. Wood frame, wood floors, gypsum board exterior and interior walls, and roll roofing; and ½ ring- and wash room in men's and 2 wings and wash room in women's. Hutsments are Pacific, having plywood floors and exteriors and insulation board interiors.								
Overall Dimensions								
Men's Barracks (5) 110' x 42' x 13'								
Women's Barracks (1) 111' x 117' x 13'								
Storage Hutsments (2) 15' x 10' x 10'								
Volume								
257,610 cu.ft.								
129,110								
5,740								
Area								
17,480 sq.ft.								
10,410								
640								
XC-52-i	Cafeteria Building	Each	1		103,400		103,400	
XC-52-i	Cafeteria Building Equipment	Each	1		30,152		30,152	
One Mess Hall is provided in the 3000 Area. Construction is wood frame, wood floor in dining room, concrete floors in kitchen and warehouse, gypsum board siding and roll roofing. Building is one-story and "L" shaped, having one dining room, a kitchen and the warehouse connected off the kitchen and office section.								
Overall Dimensions								
Mess 208' x 219' x 19'								
Kitchen + Offices 40' x 148' x 13'								
Dining Room 36' x 160' x 13'								
Warehouse 60' x 126' x 15'								
Volume								
1,251,140 cu.ft.								
Area								
31,525 sq.ft.								
XC-54-B	Garage	Each	1		13,038		13,038	
XC-54-B	Garage Equipment	Each	1		1,528		1,528	
One Garage is provided in the 3000 Area for repair of Military Police vehicles. Construction is wood frame, gypsum board siding, roll roofing and concrete floor and screen.								
Overall Dimensions								
32' x 67' x 11'								
Volume								
3,016 cu.ft.								
Area								
2,111 sq.ft.								
XC-54-E	Infirmary Building	Each	1		10,410		10,410	
XC-54-E	Infirmary Building Equipment	Each	1		2,847		2,847	
An Infirmary Building is provided for the Military Police by the remodeling of a portion of one wing of a 4-wing barracks. Interior walls are sheetrock above a 4-foot wood wainscot. Wood floors are covered with "Masti-pave."								
Overall Dimensions								
63' x 12' (Overall)								
Volume								
495 cu.ft.								
Area								
495 sq.ft.								
Sub-Total								
495,305								

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PROJECT COST SUMMARY ... MILITARY FUNDS  
... FINAL DETAIL COST STATEMENT ...

REPORTING OFFICE HANFORD ENGINEERING WORKS PROJECT DESCRIPTION PLUTONIUM PRODUCTION PLANT  
MONTH ENDING 11 DECEMBER 1946

CODE NO	ACCOUNT DESCRIPTION	UNIT OF MEASURE	QUANTITIES		TOTAL COSTS		UNIT COSTS ACTUAL
			ACTUAL	ACT'AL	ACT'AL	ACTUAL	
	<u>SPECIAL CONSTRUCTION FEATURES: (Continued)</u>						
	<u>MAINTENANCE OF FARM LANDS DURING CONSTRUCTION:</u>						
	Maintenance of Farm Lands This account covers the expense of both CFFV Prime Contractor and the Government in maintaining orchards and farm lands within the project. The farm lands, together with the existing main irrigation system and several existing individual systems, were maintained by the contractor until such time as an agreement was reached whereby cultivating, harvesting and marketing were handled by the Federal Prison Industries. Costs included in this account cover the maintenance of irrigation systems, cultivation of orchards and other crops, operating equipment, hiring, spraying and miscellanous farm maintenance.	LS	1		\$56,312		\$56,312
	Sub-Total				456,312		
	TOTAL SPECIAL CONSTRUCTION FEATURES				50,900,657		
	GRAND TOTAL CONSTRUCTION COSTS -- HASFORD E. DICKER WORKS				\$48,111,240		

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MEMORANDUM OF METHODS USED TO ACCUMULATE COST FOR  
HANFORD ENGINEER WORKS, RICHLAND, WASHINGTON

1. Detail costs were maintained by the CPFF Prime Contractor in accordance with their regular method of cost keeping on construction projects with certain modifications to comply with general accounting methods of the Corps of Engineers as laid down in Chapter II, Cost Accounting Manual. A modified form of procedures as shown in Chapter II, Cost Accounting Manual was used by Government forces in maintaining a Control Account of CPFF Prime Contract Cost and detail records of Government Overhead and Maintenance Accounts.
2. Cost of materials, equipment and supplies furnished by the Government on both a free issue and procurement basis were supplied the Contractor and incorporated in the features of work by direct allocation and/or stores distribution.
3. Labor charges were allocated direct to features of work by the Contractor on the basis of individual time cards. Main Sub-Contract labor charges were also distributed on a time card basis.
4. Materials and equipment were allocated direct to features of work where purchased specifically for a feature and on the basis of store tickets on items of a general nature, such as; lumber, nails, etc.. Distribution of Main Sub-Contractor's material and equipment costs were also made on this basis.
5. In addition to the above mentioned Main Sub-Contracts, several Sub-Contracts were let covering specific codes and charges covering labor, material and equipment were, therefore, allocated direct to the specific code involved on the basis of reimbursements to the Sub-Contractor.
6. Major construction equipment maintenance, shop equipment maintenance, small tool maintenance, and miscellaneous clearing costs were distributed periodically on the basis of total labor charges to construction features during the period involved.
7. Overhead and deferred accounts were distributed at the close of construction on the following basis:
  - a. Engineering Design: Village design to the 1100 Area.  
Plant design to the various plant features  
on the basis of total labor and material cost.
  - b. Engineering Supervision, Home Office Expense, Field Supervision, Field Expense, Transfer Out Expense, Government Overhead, and Similar Accounts were distributed to all features on the basis of total labor and material cost.

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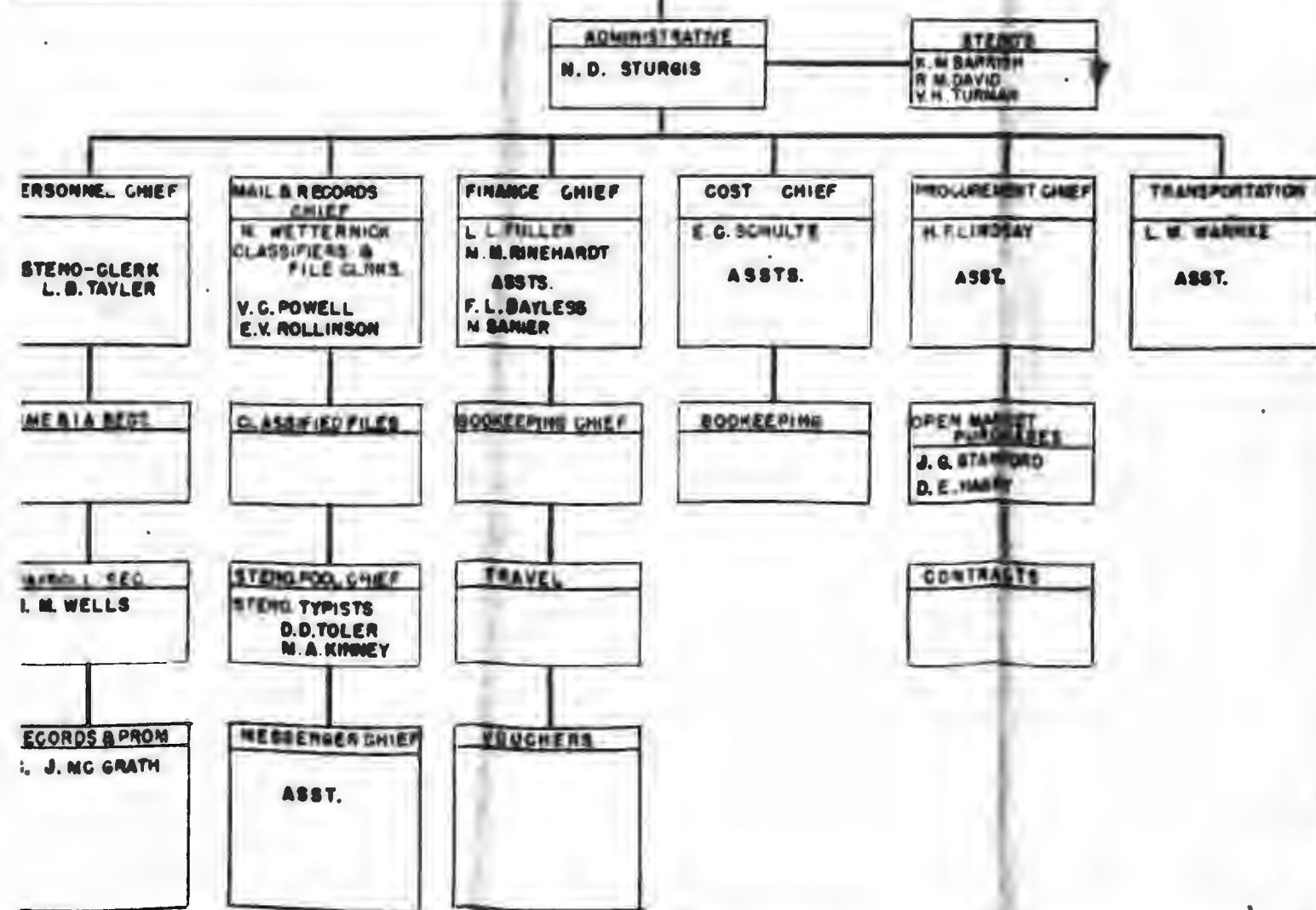
c. Temporary Construction Charges were distributed to the Feature of Work for whose benefit the particular T. C. Work was incurred.

d. Major Equipment, Rented Equipment, and Small Tool Charges were distributed to all Features of Work except the 700 and 1100 Areas. No distribution was made to these accounts since all work was done by Sub-Contract and CPFF costs were not applicable.

e. Equipment charges incurred at the Hanford Camp and under General Commercial Facilities at Hanford were distributed to all Features of Work except the 700 and 1100 Areas. No distributions were made to these two areas since Sub-Contractor's employees were quartered in the Sub-Contractor's camp and did not receive any benefit from the Hanford Camp or Hanford Commercial Facilities.

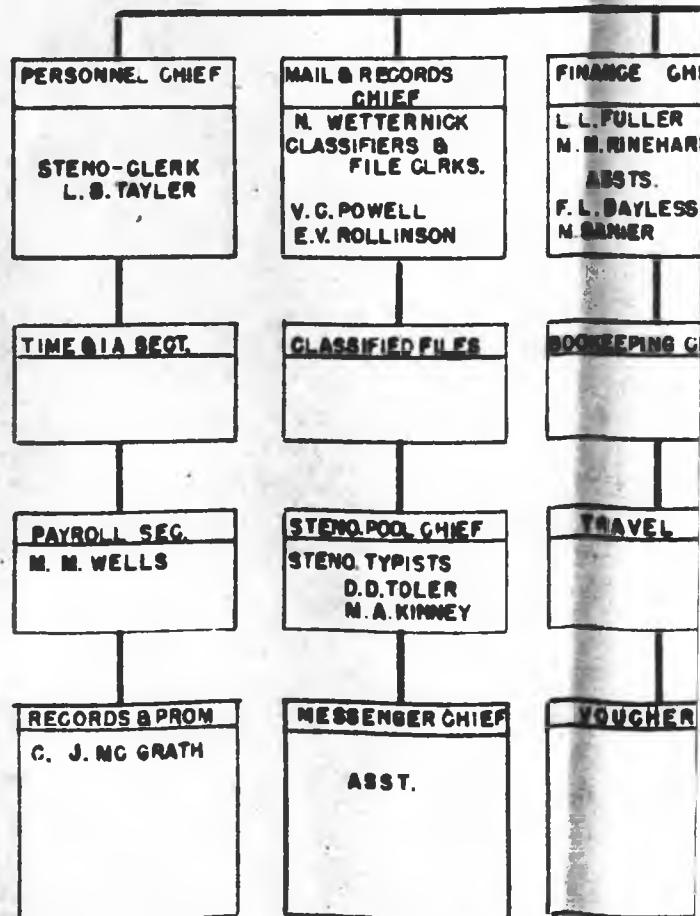
f. Government Overhead and Clearing accounts were distributed to all accounts on the basis of total labor and material.

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MAY 8, 1943

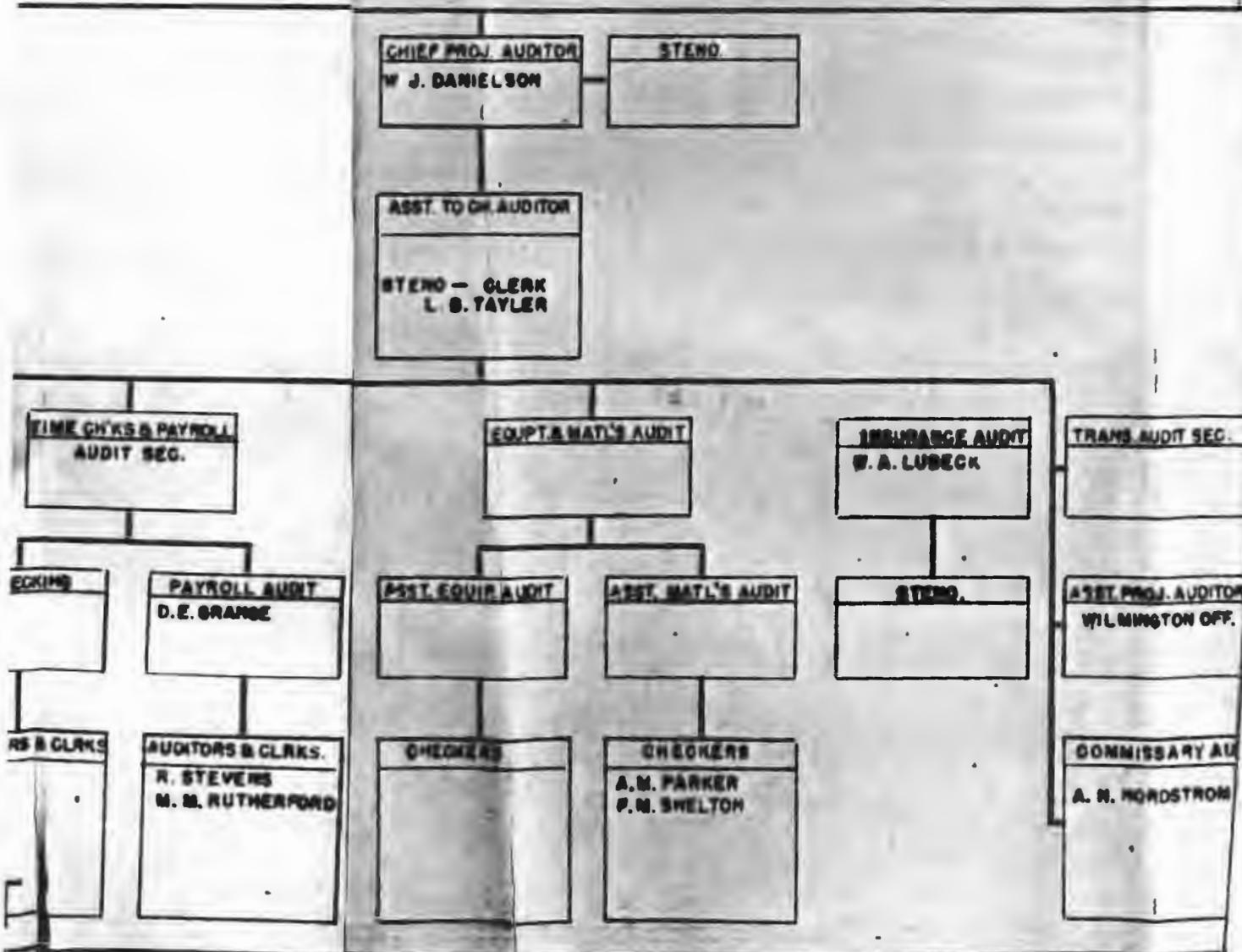
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**OFFICE**

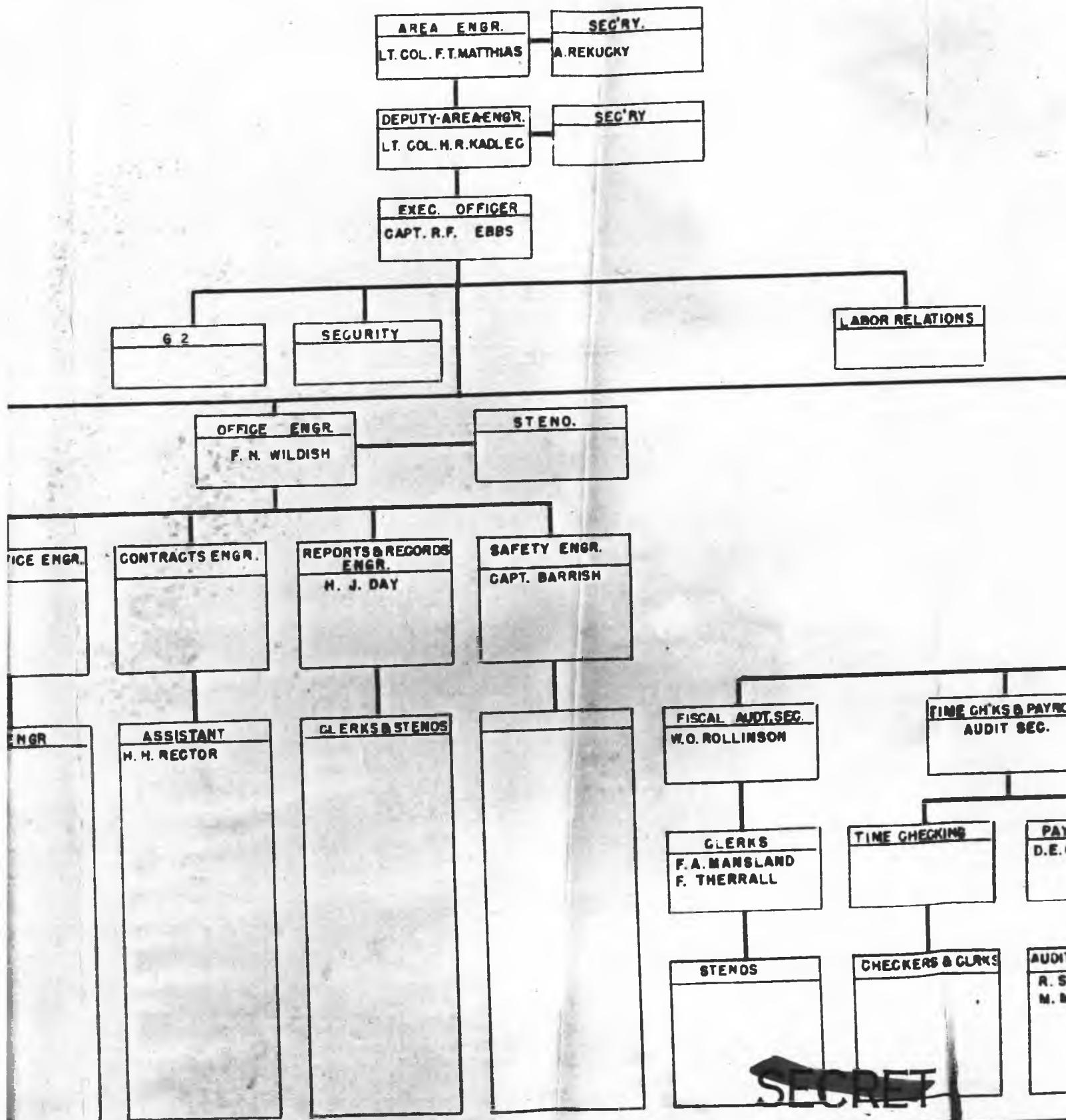
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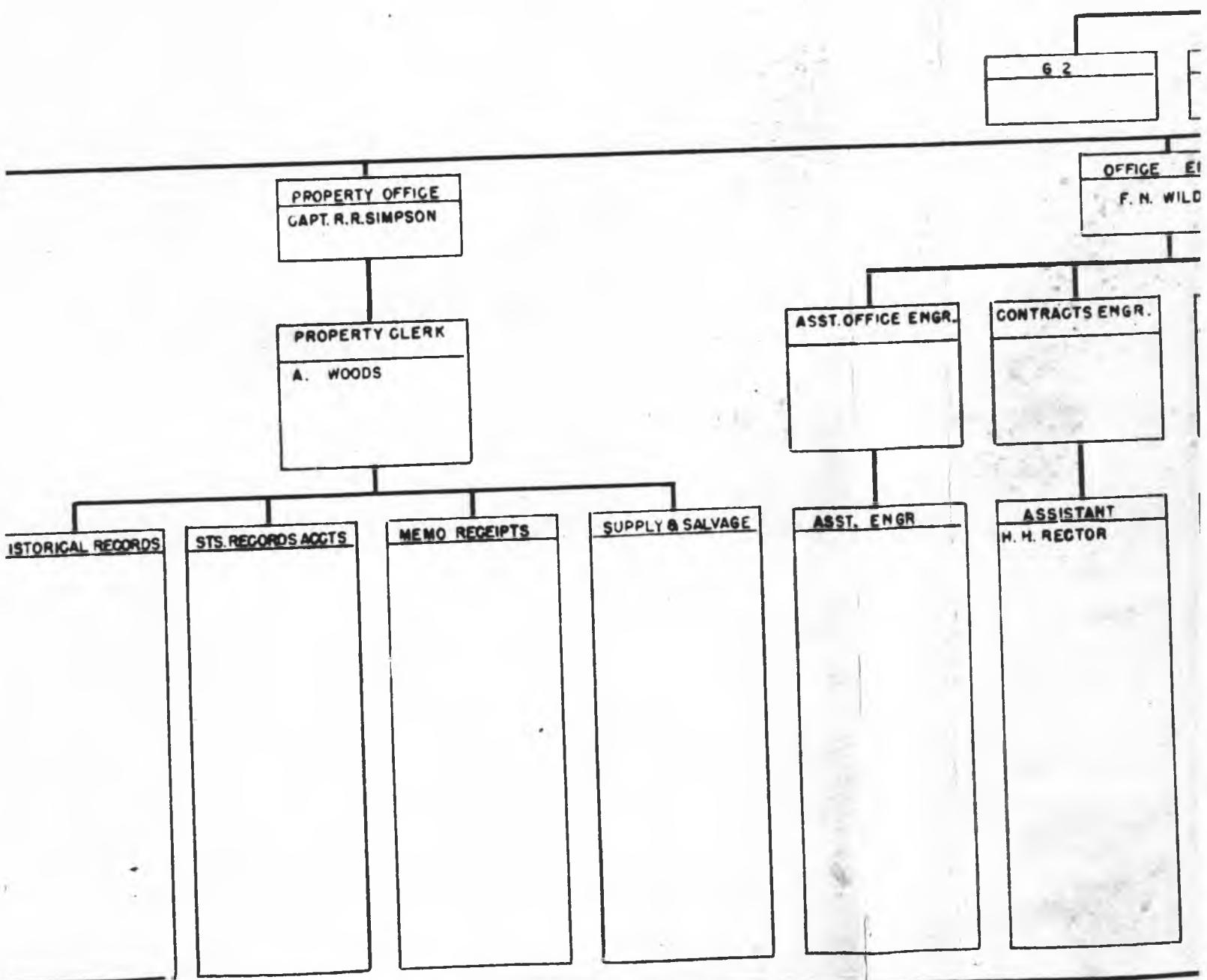
# ORGANIZATION CHART— AREA ENGINEERS OFFICE HANFORD ENGINEER WORKS

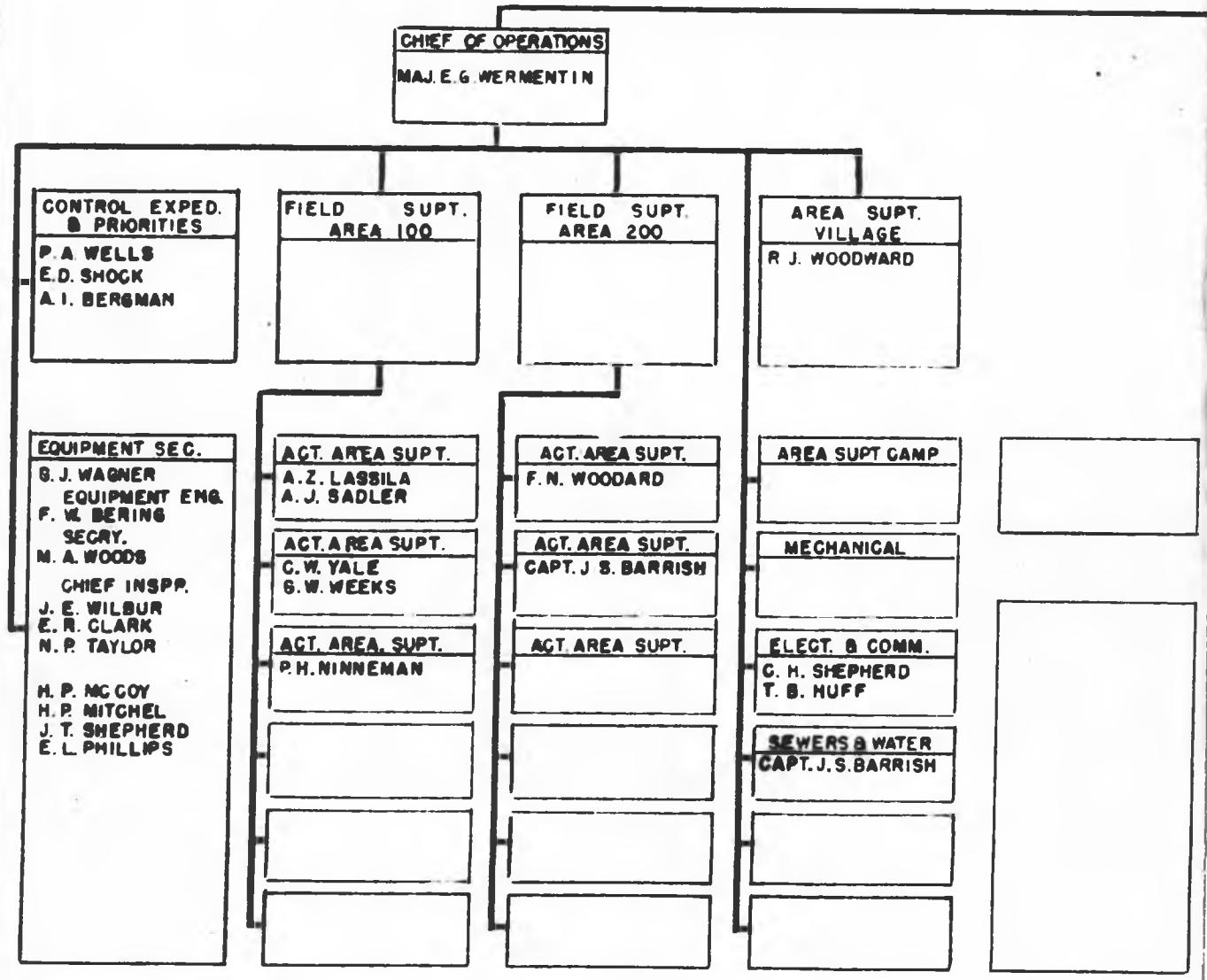
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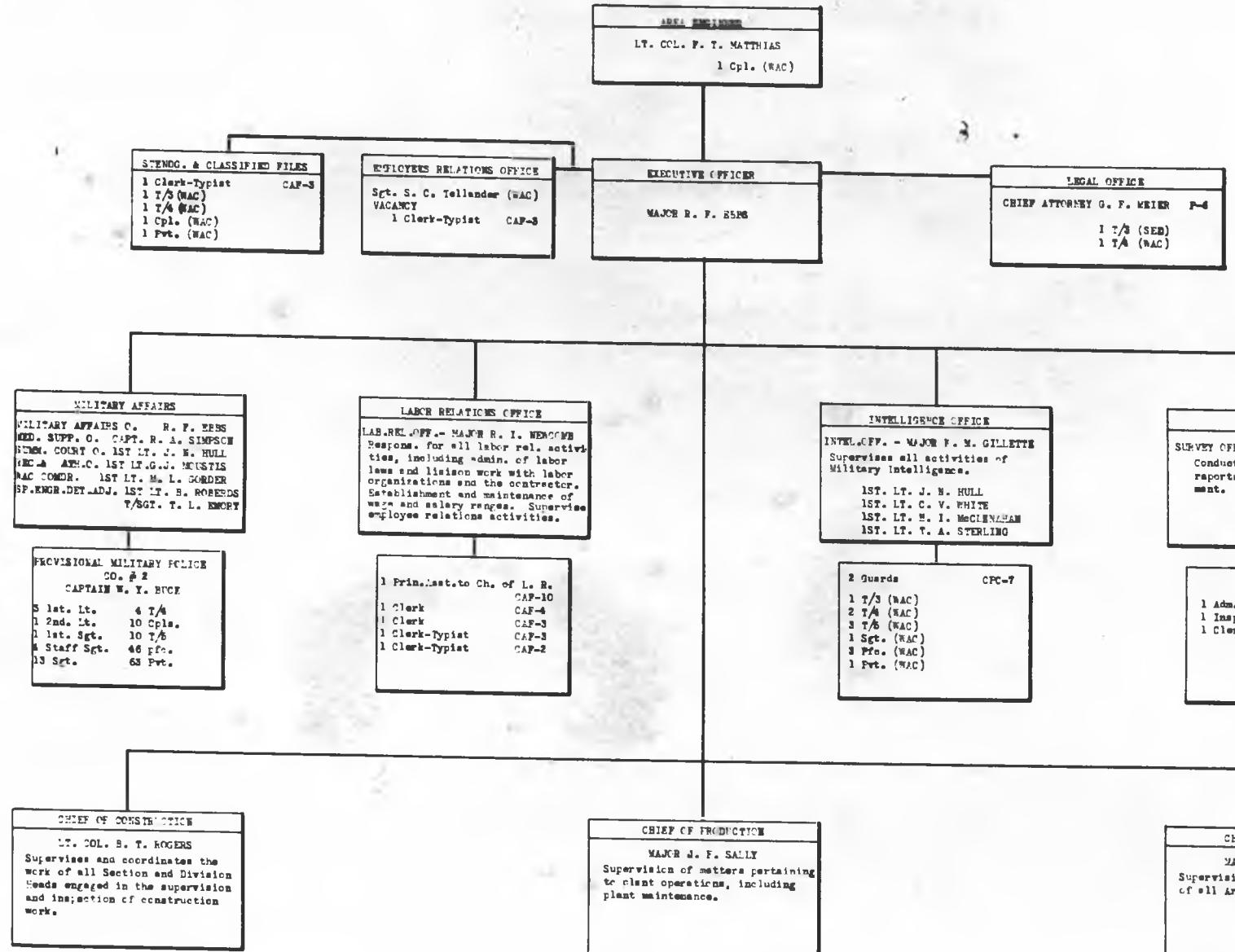
# ORGANIZATION





TOTAL PERSONNEL

OFFICERS	23 (1 WAC)
ENLISTED	27 (WAC)
ENLISTED MALE	158
CIVILIANS	338



FUNCTIONAL  
AND  
POSITION CHART  
HAMPTON ENGINEER WORKS  
1 AUGUST 1944  
APPROVED *Mattias*  
F.T. MATTIAS,  
LT. COLONEL,  
AREA ENGINEERS

17. O/C. BRADDOCK T. WOODS  
ASSISTANT CHIEF OF INSPECTOR  
MILITARY C. L. REGGERS

SPECIAL ASSISTANT

C. S. CO. PHILLIPS P-3

200 DIVISION - W.A. 307 AREA

OFFICER IN CHARGE-MAJ. J. F. DOWD  
Supervises, directs and plans work of subordinate engineers engaged in supervision of construction.

1 Clerk (Supply)

ASST. TO CHIEF INSPECTOR

J. C. SCHWARTZ P-3  
1 Engineer (Civil) P-3  
1 Clerk-Supply CAP-4

200 REGT

REGT. TO CHARGE - C. S. CO. PHILLIPS P-4  
Responsible for supervising and coordinating the work of technical engineers engaged in the actual supervision and inspection of construction work.

1 Engg. (Civil)  
2 Clerk (Supply) P-4

200 REGT

REGT. TO CHARGE - C. S. CO. PHILLIPS P-4  
Responsible for supervising and coordinating the work of technical engineers engaged in the actual supervision and inspection of construction work.

1 Engg. (Electrical) P-4

200 AREA

AREA. TO Charge - C. S. CO. ALLIS P-4  
Responsible for supervising and coordinating the work of technical engineers engaged in the actual supervision and inspection of construction work.



100 B

REGT. TO CHARGE - C. S. CO. HABECK P-4  
Responsible for supervising and coordinating the work of technical engineers engaged in the actual supervision and inspection of construction work.

1 Engg. (Civil)  
1 Clerk (Supply) P-3  
1 Engg. (Supply) P-3

100 B & C

REGT. TO CHARGE - C. S. CO. ALLIS P-4  
Responsible for supervising and coordinating the work of technical engineers engaged in the actual supervision and inspection of construction work.



GENERAL SECTION

1000. TO CHARGE - C. S. CO. WOODS P-4  
Supervises and coordinates all activities connected with the acquisition of materials and, contract equipment transferred in from other projects. Division of Contracts.

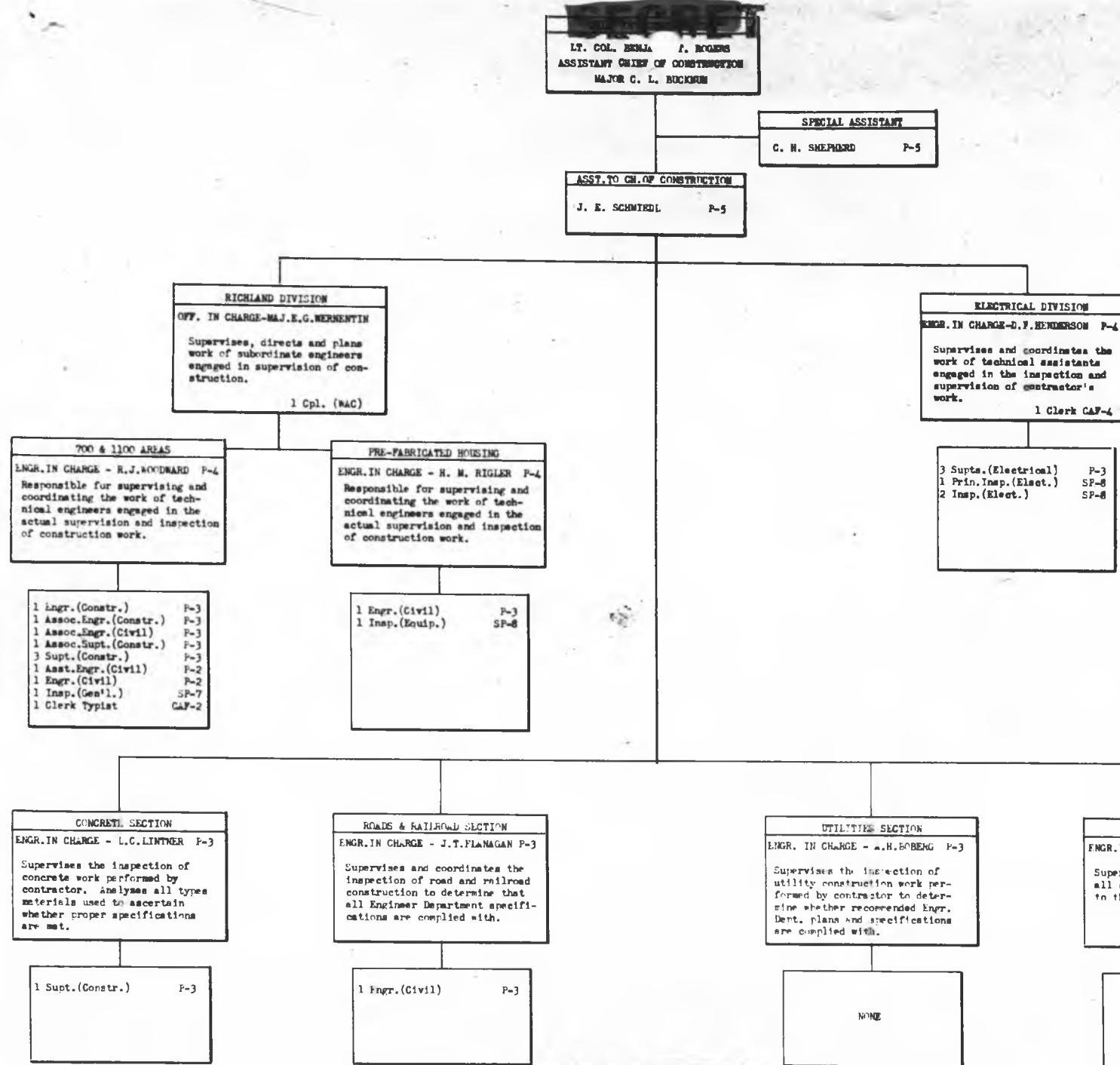
1 Engg. (Electrical)  
1 Admin. Asst.  
1 Clerk  
1 Contract Manager  
1 Clerk (Supply) P-4

MATERIALS SECTION

1000. TO CHARGE - C. S. CO. WOODS P-4  
Supervises and coordinates all activities connected with acquirement of construction equipment, furniture, etc., for the latest work if necessary, involving removal and transportation after acquisition.

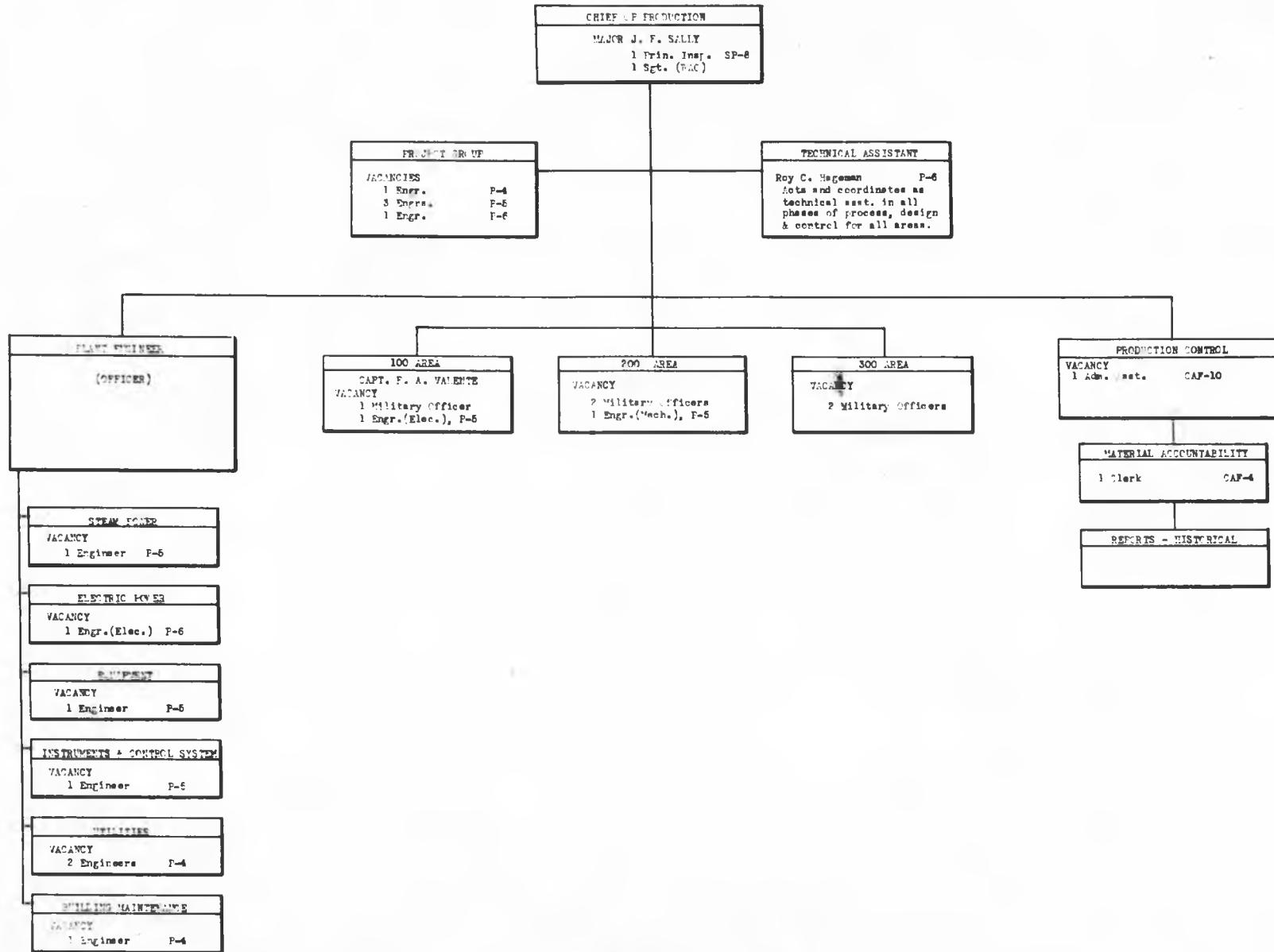
1 Clerk (Civil) P-3  
1 Clerk (Supply) P-3  
1 Clerk (Electrical) P-3  
1 Clerk (Contract) P-3  
1 Clerk  
1 Clerk  
1 Clerk (Supply) P-3  
1 Clerk (Electrical) P-3

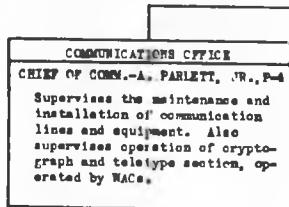
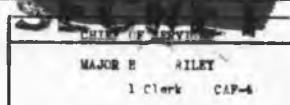
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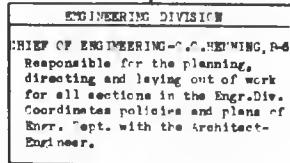
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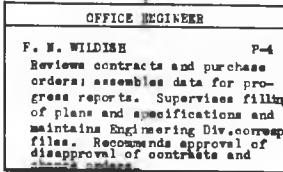
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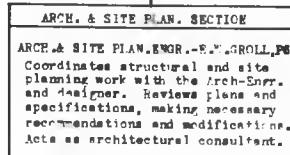
1 Storekeeper	CAF-7
1 Tele.Type.Opr.	CAF-4
1 Clerk	CAF-3
1 Clerk-Typist	CAF-2
1 Gen. Foreman	\$1.80 p/h
3 Foremen	1.70 p/h
16 Linemen	1.65 p/h
1 Lineman Helper	1.10 p/h
2 T/S (WAC)	
1 T/S (WAC)	
2 Pfc.(WAC)	
1 Pvt.(WAC)	
VACANCY	
1 Groundman	1.10 p/h



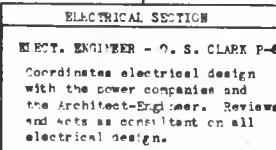
1 Engineer (Civil) P-4  
1 Clerk-Stenog. CAF-3



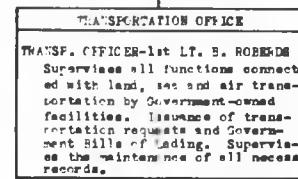
1 Asst. Engr. (Civil) P-2  
1 Asst. Clerk CAF-4



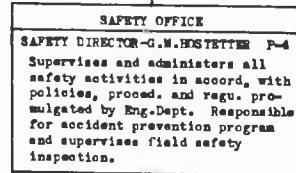
1 Engr. (Civil) F-3



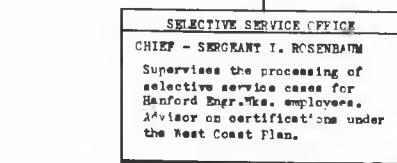
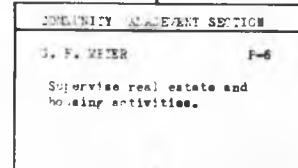
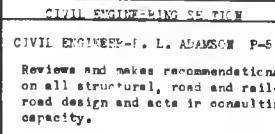
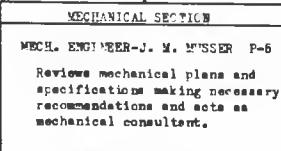
1 Sr. Engr. (Elect.) F-5  
1 Inst.Civ. Stenog. CAF-3



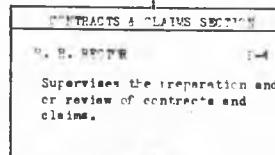
3 Airplane Pilots	P-4
1 Proj. Auditor	CAF-8
1 Adm. Asst.	CAF-5
2 Clerks	CAF-4
2 Clerk-Typists	CAF-2
1 Clerk-Typist	CAF-1
1 Transp. Foreman	\$1.25 p/h
3 Truck Drivers	1.00 p/h
7 Truck Drivers	.95 p/h
1 T/Sgt. (SED)	
VACANCY	
1 Clerk-Stenog.	CAF-3



1 Assoc. Engr. (Const.)	F-3
3 Engineers (Safety)	F-3
3 Engineers (Safety)	F-2
1 Clerk-Stenog.	CAF-3
1 T/Sgt. (SED)	
1 T/S (SED)	
VACANCIES	
1 Engr. (Saf.)	F-3
1 Engr. (Saf.)	F-2
1 Engr. (Saf.)	CAF-3

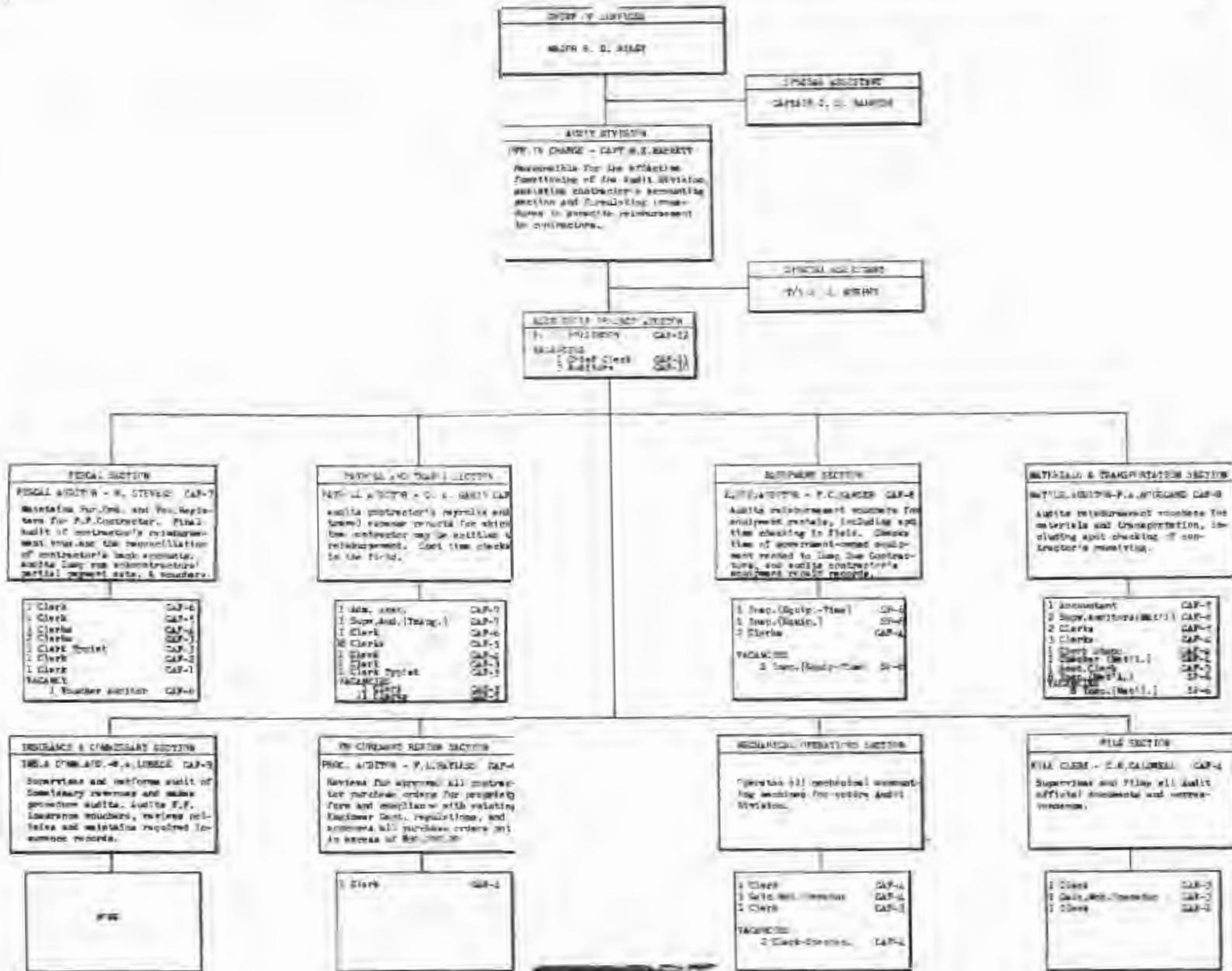


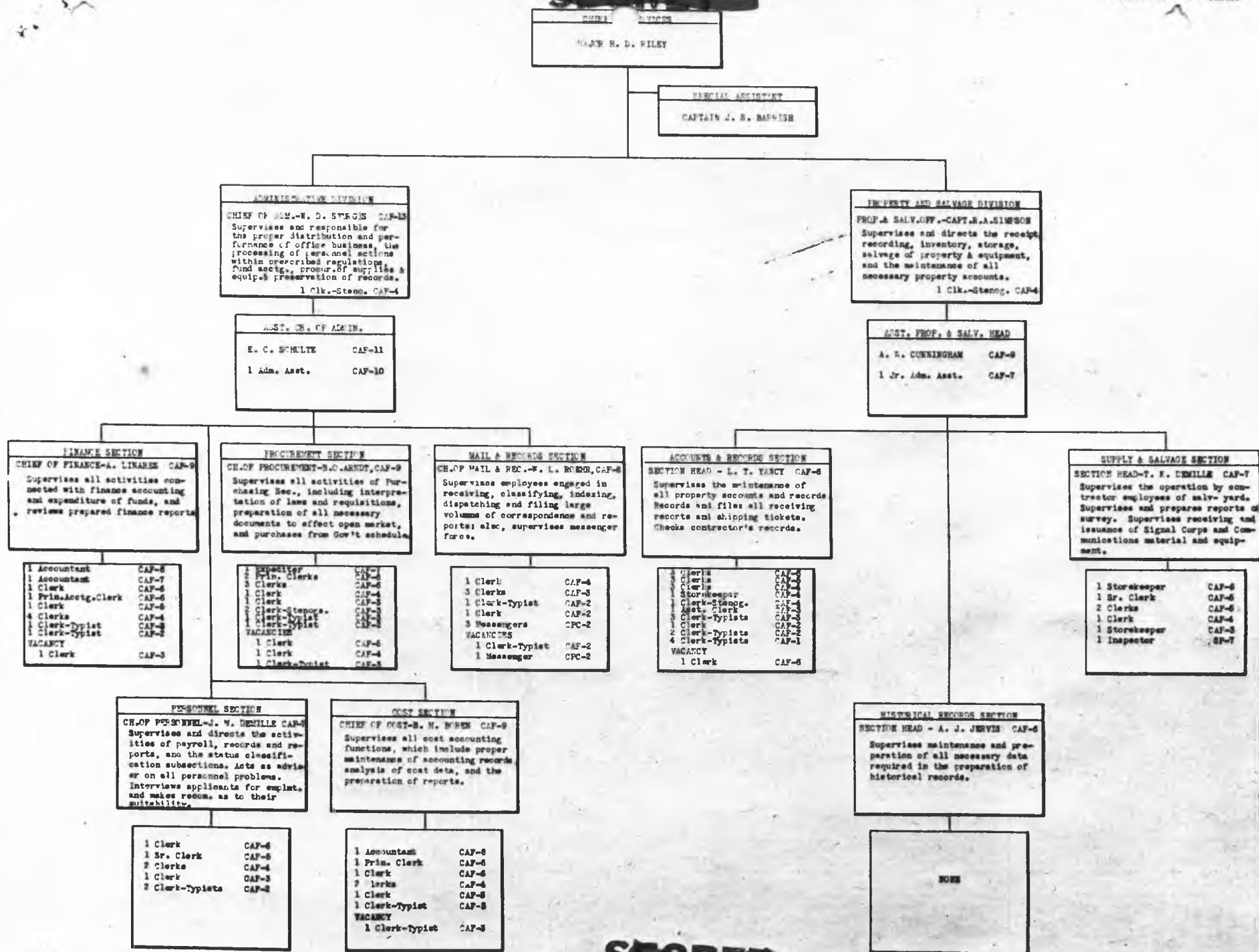
1 Clerk-Stenog. CAF-2



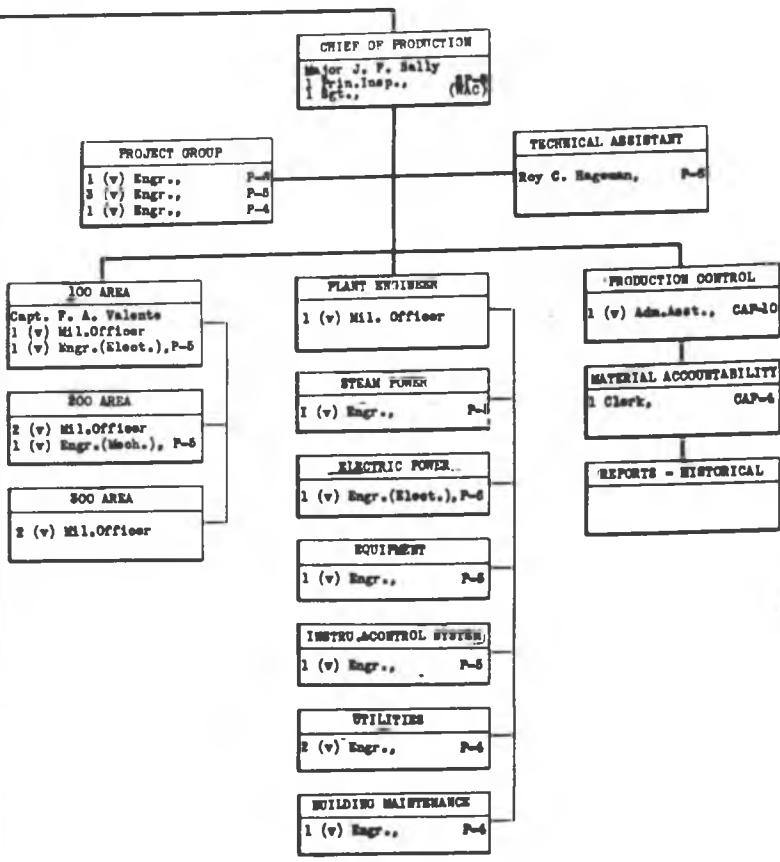
1 Sr. Clerk CAF-6  
1 Clerk-Typist CAF-2

1 T/Sgt. (SED)	
1 Assoc. Engr. (Civil)	F-2
1 Adm. Asst.	CAF-8
1 T/Sgt. (SED)	
1 Clerk	CAF-6
1 Clerk-Stenog.	CAF-3
1 Foreman	\$1.50 p/h
3 Power Equip. Operator-Pump	\$1.375 p/h





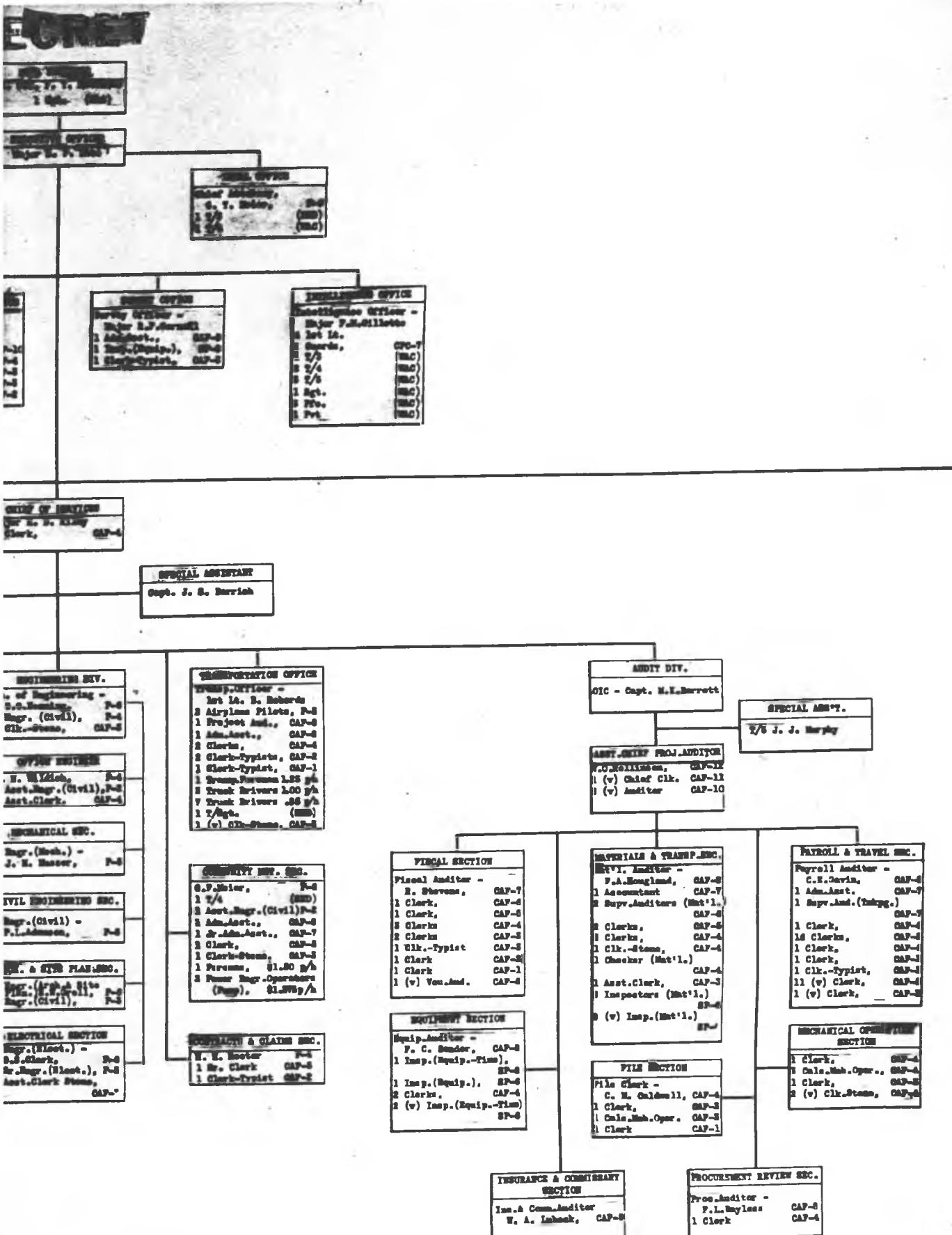
SECRET



PPT.  
by

LL & TRAVEL INC.	
11 Auditor	CAP-6
2. Gavin,	CAP-6
Asst.	CAP-7
1. Ind. (Typist.)	CAP-7
2.	CAP-7
3.	CAP-6
4.	CAP-6
5.	CAP-6
6.	CAP-6
7.	CAP-6
8.	CAP-6
9.	CAP-6
10.	CAP-6
11.	CAP-6
12.	CAP-6
13.	CAP-6
14.	CAP-6
15.	CAP-6
16.	CAP-6
17.	CAP-6
18.	CAP-6
19.	CAP-6
20.	CAP-6

MICAL OPERATIONS SECTION	
1.	CAP-6
2.	CAP-6
3.	CAP-6
4.	CAP-6

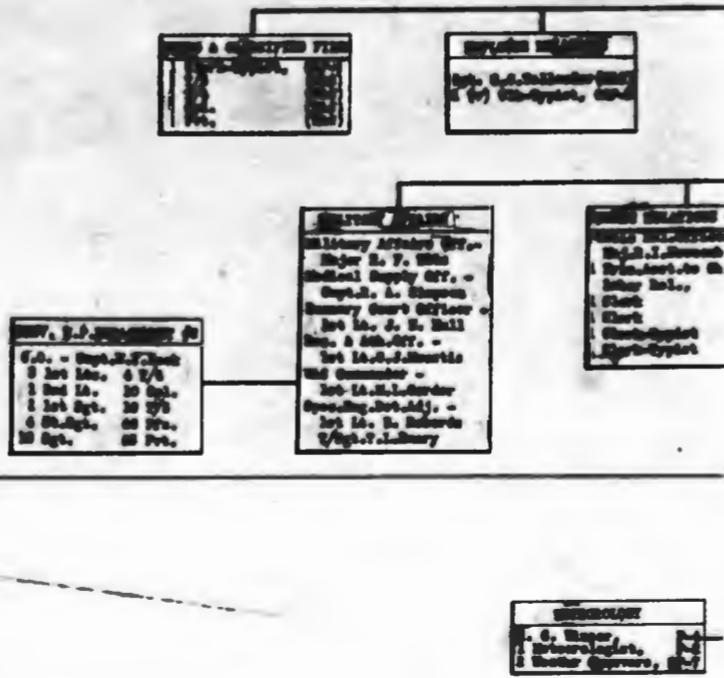


## ORGANIZATION CHART

**DEA BUREAU'S OFFICE**

**JAPANESE KING FISHER WORKS**

DATE: 1 AUGUST 1964



**PROPERTY & SALVAGE UNIT**

Property & Salvage  
Officer -  
Capt. E.A.Simpson  
1 Clk.-Stone, CAP-4

**ARMY PROPERTY AND SALVAGE HEAD**

J.W.Cunningham, CAP-5  
1 Jr. Adm. Asst., CAP-7

**MOVEMENTS & RECORDS SEC.**

Section Head -  
L.T.Yancey, CAP-6  
2 Clerks, CAP-6  
2 Clerks, CAP-6  
2 Clerks, CAP-6  
1 Storkeeper, CAP-6  
1 Clk.-Stone, CAP-6  
1 Adm. Clerk, CAP-6  
2 Clk.-Typists, CAP-5  
1 Clerk, CAP-5  
2 Clk.-Typists, CAP-5  
4 Clk.-Typists, CAP-5  
1 (v) Clerk, CAP-6

**SUPPLY & SALVAGE SEC.**

Section Head -  
F.E.Dehillie, CAP-7  
1 Storkeeper, CAP-6  
1 Mr.Clerk, CAP-6  
2 Clerks, CAP-6  
1 Clerk, CAP-6  
1 Storkeeper, CAP-5  
1 Inspector, GPC-7

**HISTORICAL RECORDS SEC.**

Section Head -  
A. J. Jarvis, CAP-5

**ADM. DIVISION**

Chief of Adm. -  
H. D. Sturgis, CAP-5  
1 Clerk-Typist, CAP-4

**ADM. CHIEF OF ADM.**

H. C. Schulze, CAP-11  
1 Adm. Asst., CAP-10

**FINANCE SECTION**

Chief of Finance -  
R. L. Linnean, CAP-5  
1 Accountant, CAP-6  
2 Accountant, CAP-7  
1 Clerk, CAP-6  
1 Clk.-Asstg.Clk., CAP-6  
1 Clerk, CAP-6  
4 Clerks, CAP-4  
1 Clerk-Typist, CAP-5  
1 Clerk-Typist, CAP-5  
1 (v) Clerk, CAP-5

**PROCUREMENT SECTION**

Chief of Procurement -  
R.O.Arnett, CAP-5  
1 Expediter, CAP-7  
2 Prin.Clerks, CAP-6  
3 Clerks, CAP-6  
1 Clerk, CAP-5  
1 Clerk, CAP-5  
2 Clk.-Stone, CAP-5  
1 Clk.-Typist, CAP-5  
1 Clk.-Typist, CAP-5  
1 (v) Clerk, CAP-5  
1 (v) Clerk, CAP-5  
1 (v) Clk.-Typist, CAP-5

**MAIL & RECORD SECTION**

Chief of Mail & Record -  
W. L. Reeder, CAP-6  
1 Clerk, CAP-6  
2 Clerks, CAP-6  
1 Clk.-Typist, CAP-6  
1 Clerk, CAP-6  
3 Messengers, GPC-2  
1 (v) Clk.-Typist, CAP-6  
1 (v) Messenger, GPC-2

**PERSONNEL SECTION**

Chief of Personnel -  
J.M.Dehillie, CAP-7  
1 Clerk, CAP-6  
1 Mr.Clerk, CAP-5  
2 Clerks, CAP-5  
1 Clerk, CAP-5  
2 Clk.-Typists, CAP-6

**COST SECTION**

Chief of Cost -  
B.L.Brown, CAP-6  
1 Accountant, CAP-6  
1 Clerk, CAP-6  
2 Clerks, CAP-6  
1 Clerk, CAP-5  
1 Clerk-Typist, CAP-5  
1 (v) Clk.-Typist, CAP-5

**COMMUNICATIONS OFFICE**

Chief of Communications -  
A. Parlett, P-6  
1 Storkeeper, CAP-7  
1 Teletype Opr., CAP-4  
1 Clerk, CAP-4  
1 Clerk-Typist, CAP-4  
1 Gen'l. Person 1.50 y/b  
1 Person 1.70 y/b  
1 Lineman 1.65 y/b  
1 Lineman Helper 1.30 y/b  
1 T/S (MAC)  
1 T/S (MAC)  
1 P/C (MAC)  
1 Pvt. (MAC)  
1 (v) Supervisor 1.30 y/b

**SAFETY OFFICE**

Safety Director -  
G.H.Motteroe, P-6  
1 Assoc. Engr.(Const) P-5  
2 Engr.(Safety), P-5  
2 Engr.(Safety), P-5  
1 Clerk Stone, CAP-5  
1 T/S (MAC)  
1 T/S (MAC)  
1 (v) Engr.(Safety) P-5  
2 (v) Engr.(Safety) P-5  
1 (v) Clk.-Typist, CAP-5

**EXECUTIVE SERVICE OFFICE**

Chief - Sgt.I.J.Beauchamp  
1 Clerk Stone, CAP-5

CHIEF OF CONSTRUCTION

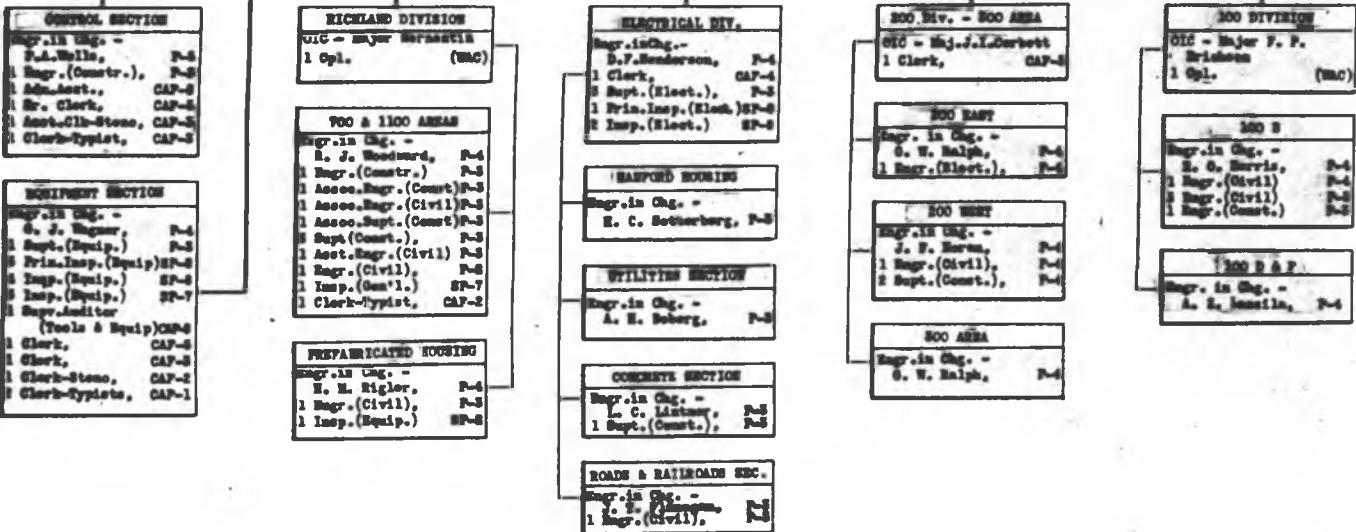
M. S. Lewis, B.T. Major  
Asst. Ch. of Constr.  
Major G. L. Johnson

SPECIAL AGENT

C. J. Shepherd, B.A.

ASST. TO CHIEF OF CONST.

J. P. Schmid, C.I.  
Major - (Civil)  
Harry O'Brien, C.I.



DESIGN PROJECT MGR  
H T DANIELS

TRAFFIC  
C S SIMPSON

DESIGN PROJ MGR  
200 AREA  
P. GENEREAUX

ASST DESIGN PROJ MGR  
OC AREAS  
J A BURNS

DESIGN FIELD REP 100 AREA

ACCESS ENGR  
A L FRITZ

PROCESS ENGR  
W R MCKENNA

RD HOUSING SUPT  
M TAYLOR

ANFORD HSING SUPT,  
& RICHLAND HSING  
M HAYWARD

ASST ANFORD HSING SUPT  
FACILITIES  
T G ENRIGHT

UTILITIES DIV ENGINEER  
J BRUCKERT  
ASST R K CHALFANT

AL ASSIGNMENT  
BLAIR

FACILITIES OFFICE SUPT  
G N HEDREEN

FEEDING FACILITIES  
J E ZACHARY

BARRACKS RECEPTION &  
SUPPLY SUPT  
H M HULS

COMMISS & BOWLING ALLEYS  
SUPV  
J D SHAW  
FACILITIES CONTROL SUPV  
F J OGLE JR.

LOST-PLUS-FIXED FEE  
SUB-CONTRACTORS

COMMISSARY  
PROJECT MANAGER  
R E BURTON  
ASST PROJECT MGR  
J HARRIS  
A BEHLING

B 58]

WILMINGTON OFFICE

CHIEF ACCOUNTING OFFICER  
T. W. BROWN

PLANT AUDITOR  
J. B. HALDEMAN

ASSISTANT  
CHIEF ACCOUNTING OFFICER  
S. D. EWING

ASSISTANT  
CHIEF ACCOUNTING OFFICER  
E. E. RIGGIN

ASST. DESIGN PROJ. MGR.  
200 AREA  
R. P. GENEREAUX

PLANT AUDITOR  
W. F. HAMILTON

ASSISTANT  
CHIEF ACCOUNTING OFFICER  
E. E. MURPHY

ASSISTANT  
CHIEF ACCOUNTING OFFICER  
J. W. SIMMONS

PROCESS ENGR  
H. L. FRITZ

HANFORD HOUSING SUPT.  
B. M. TAYLOR

ASST. HANFORD HSING. SUPT.  
CONTRACTS  
H. A. ANDREWS

ASST. HANFORD HSING. SUPT.  
HOUSING  
G. J. SCHAEFER

ASST. HANFORD HSING. SUPT.  
ACTIVITIES  
T. E. WEISSINGER

ASST. HANFORD HSING. SUPT.  
ENGR. & RICHLAND HSING.  
P. M. HAYWARD

TRAILER CAMP MGR.  
G. E. GILSON

CONSULTANT, COUNSELOR  
NURSERY SCHOOL  
B. M. MARIS

SPECIAL ASSIGNMENT  
J. S. BLAIR

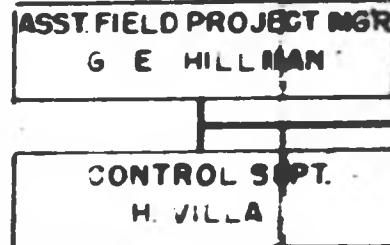
HOUSING SUPERVISOR  
J. A. LAMPERT

ATHLETICS SUPV.  
J. E. CARTER

GENERAL RECREATION  
SUPV.  
P. E. TOOMBS

ACTIVITIES SUPV.  
W. E. MCCORMICK

COMMUNITY FACILITIES  
RATIONING SUPV.  
G. T. EVERSON



**SUPT OF RAILROADS**  
**G J. SNAPP JR**

**ASST CONTROL SUPT.**  
**G. T. COOPER**

**ASST SUPT OF RAILROADS**  
**R. R. PIERCE**

**SUPT. OF MOTIVE POWER**  
**W.G. CHRISTIANSEN (ACT G)**

**SPECIAL ASS. GENMEN**  
**W G CHRISTIANSEN**

**PURCHASING AGENT**  
J. W HAMMETT  
**ASSTS.**  
E.A.DANZ  
J.Q.BOWCOCK  
W.A BEARDEN SEATTLE  
**PRIORITIES SUPV.**  
R.L.MCGAHEE  
**EXPEDITING SUPV.**  
C.P.LAWSON  
ASST.R.G.KRAMER  
**PAYROLLS & PAYMASTER**  
SUPV L.G.BRITTON  
ASST F.W.NUNNALLY  
**DEDUCTION & INCENTIVE PLAN SUPV.**  
F.C.STILWELL

F.F.SUB-CONT.PAYROLLS  
SUPV N.E.WHITE  
ASST E.T.CURLEE

**DIVISION SUPT**  
E. S. DIXON  
**TRAINMASTER**  
F. A LYNN  
**SUPT TRACK MAINT.**  
C. H. WATKINS  
**AREA SUPT. TRACK**  
**MAINT.**  
F. TURMAN

**AREA SUPT RR ENGRS**  
W. D EDSON  
**AREA SUPT LOGO SHOPS**  
A. E KELLUM  
**AREA SUPT CAP SHOPS**  
J. D. O'NEILL

**DUPONT PAYROLLS**  
SUPV E. W. SLUSHER  
**DUPONT RECORDS SUPV**  
H.W. MC MILLAN  
**CHIEF PAYMASTER**  
H.R. CRAIG JR.  
**ASST.**  
T. E. SPARKS

CONSTRUCTION DIVISION  
HANFORD ENGINEER WORKS  
FUNCTIONAL ORGANIZATION CHART

FIELD PROJECT MGR  
G. P. CHURCH

ASST FIELD PROJECT MGR  
T. L. PIERCE

SECURITY AGENT  
M. F. HIGHSMITH  
ASST. H. F. JOHNSTONE

SPECIAL ASSIGNMENT  
E. M. ELLIOTT

ASST. FIELD PROJECT MGR  
F. H. MC DONALD

SERVICE SUPERINTENDENT  
E. L. PLENNINGER

ASST. SERVICE SUPT.  
J. W. MERCKE

SAFETY SUPERINTENDENT  
H. F. NUNN

ASST. SAFETY SUPT  
G. L. SAUNDERS  
J. E. LINDEMAN

ASST. SERVICE SUPT.  
P. H. GARDNER

ASST. SERVICE SUPT.  
H. M. MILLER

MEDICAL SUPT.  
J. M. WETHERHOLD  
ASST. J. D. GRIFFIN

PERSONNEL SUPV.  
T. E. EWING  
EMPLOYMENT SUPV.  
W. J. PFISTER  
ASST. G. L. DORSCH  
TERM & TRANS SUPV  
F. B. VON JEWERTH  
ASST. C. R. OBERLIN  
TRAINING & EMPLOYEE  
RELATIONS SUPV.  
J. F. SEMBOWER  
ASST. J. C. FULLING  
SUB-CONTR. BADGE  
OFFICE  
A. P. HUDSPETH  
INVESTIGATION SUPV.  
W. A. MONIHON  
PATROL & FIRE SUPV.  
R. E. BUBENZER  
PATROL CHIEF  
M. V. ARMSTRONG  
ASST.  
T. O. BREWER  
CIVILIAN DEFENSE  
CAPT. G. W. MARIS  
FIRE CHIEF  
R. H. HARE  
ASST. CHIEFS  
W. D. SHARPNACK  
C. P. STARR  
FIRE MARSHALL  
F. B. JACKALEW

ASST. DIVISION SUPT.  
H. D. REESE  
  
RECRUITMENT SERV. SUPV.  
R. J. SHINE JR.  
ASST.  
R. F. GISH  
  
RECEPTION AND  
RECRUITMENT RELATIONS  
SUPV. J. R. CARTER  
  
COST & STATISTICS  
SUPV. A. A. THOMAS  
ASST. C. M. YOUNG  
SUPV. EMPLOYMENT  
AGENTS  
J. G. MERTZ  
R. S. FISHER

INDUSTRIAL MEDICINE  
G. Y. SWICKARD  
HOSPITAL & CLINICS  
J. P. GRIFFIN  
MEDICAL STAFF  
CHIEF SURGEON  
T. J. BULGER  
NURSING SUPV.  
M. M. SHAW  
BUSINESS MANAGER  
C. B. NEIGHBORS  
PUBLIC HEALTH  
R. R. SACHS

CONTRACTORS SUPV.  
S. I. NICHOLSON  
100 B & 105 B SUPV.  
O. H. BYNUM  
100 D & 105 D SUPV.  
R. BRADFORD  
100 F & 105 F SUPV.  
W. J. MURPHY  
  
200 W SUPV  
T. EDMUND  
200 E SUPV.  
J. H. STRICKER (ACTIN)  
HANFORD SUPV.  
D. J. BEATTY  
SERVICES, 200N & WHIT  
BLUFFS SUPV.  
A. R. STEVENS  
  
272 SUPV.  
B. A. KING

RICHLAND SUPV.  
H. F. METCALF

ASST. FIELD PROJECT MGR.

G. E. BUDD

STAFF ENGINEERS

ELECTRICAL

E. W. KYGER

MECHANICAL

H. S. SMITH

FIELD SUPERINTENDENT

R. K. MASON

ASST. FIELD SUPT.

W. T. TYLER

ASST. FIELD SUPT.

J. O. SALISBURY

SUPERVISING

CRAFTS

SPECIAL CONSTRUCTION

SUPT.

E. H. TREVENEN

CRAFT SUPERINTENDENTS  
SUPT.

ASST.

RAFT

R. W. HERRMANN

M. E. LEE

D. A. MCGINNIS

R. E. WATT

W. E. LEAZER

M. W. WOOD

G. F. HAAB

C. I. SCOTT

H. A. ANDERSON

T. E. HALL

H. E. FISHER

J. S. PARKE

C. F. MAXEY

G. B. PETTITT

L. E. SPENCE

S. P. CARPENTER

A. M. SCHEIRFFIUS

C. W. FUNK

J. THOMPSON

G. H. TAYLOR

H. B. COLEMAN

W. G. CRUMBLISH

J. H. RUFFNER

R. A. MITCHELL

L. W. WALLING

G. P. McLAUGHLIN

GENERAL AREA SUPT.

C. W. HASTY

15 AREAS

J. L. FLETCHER

M. G. JOHN

F. M. KIRKPATRICK

T. G. GAGIENNE

ST-PLUS-FIXED-FEE

SUB-CONTRACTORS

C. W. BETTS

J. A. GIBBAS

A. L. WRIGHT

J. D. O'NEILL

G. L. BODDON

J. T. STONE

DIVISION

AREA

ENGI

ENGINEER

300

700

1100

DUPONT CRAFTS

S. W. WILLIAMSON

W. E. DOUGLASS

A. G. REPSIS

ASST FIELD PROJECT MGR.  
G. E. BUDD

STAFF ENGINEERS  
ELECTRICAL  
E. W. KYGER  
MECHANICAL  
H. B. SMITH

SUPT. | SUPERVISING  
RY CRAFTS

**SUPERINTENDENTS**

SUPT. ASST.

HERRMANN

M. E. LEE  
R. G. MITT

MCGINNIS

R. W. WOOD  
C. L. SCOTT

LEAZER

T. F. HALL  
J. S. PARKE

HAAB

G. B. PETTITT

ANDERSON

W. B. DURRETTE  
A. W. ROGERS  
E. P. H. WILLETT

FISHER

S. P. CARPENTER  
C. W. FUNK  
G. H. TAYLOR  
W. G. CRUMISH  
R. A. MITCHELL  
G. P. MC LAUGHLIN  
C. W. HASTY

MAXEY

SPENCE  
SCHERFFIUS  
JOMPSON  
GOLEMAN  
RUFFNER  
WALLING

**GENERAL AREA SUPT.**

J. L. FLETCHER  
M. G. JOHN

F. M. KIRKPATRICK  
T. G. GAGCIENNE

**EE SUB-CONTRACTORS**

BETTS

J. A. GIBBINS  
W. D. O'NEILL  
M. L. GORDON  
M. L. TUNN

WRIGHT

FIELD SUPERINTENDENT  
R. K. MASON

ASST. FIELD SUPT.  
W. T. TYLER

SPECIAL CONSTRUCTION  
SUPT.  
E. H. TREVENEN

SPECIAL ASSIGNMENT  
F. W. BURKE

**DIVISION AREA**

300  
700  
1100  
DUPONT CRAFTS

ENGINEER  
S. W. WILLIAMSON  
W. E. DOUGLASS  
A. C. REPSIS

ENGINEERS  
S. F. SCHURE  
C. P. CRITCHER  
E. C. HAWLEY

ASST. FIELD PROJ.  
SPECIAL ASSIGNMENTS  
B & 200 AREA  
C. H. TRA

B'R OFFICE SUPT.  
A. D. DAY

ENGR OFFICE SUPT.  
(RICHLAND)  
J. E. SAGE

ASST. ENGR OFFICE SUPT.  
J. P. HOLT

ENGINEERS  
TRACTS  
J. COLLINS

ENGINEERS  
CONTRACT  
W. W. CAMPBELL  
ASSTS  
G. J. LAWRENCE

CONSTRUCTION EQUIPMENT  
E. T. NORTON  
INSPECTION  
R. R. MEYERS  
ASST.  
J. L. MC INNIS

ASST. FIELD SUPT.	SL
L. G. AHRENS	100
R. A. COERVER	200
H. F. MAGOON	600

AREA	DIVISION	EN. ENGINEER
100-B		N. D. LITCHFIE
100-B		J. A. CROWLEY
100-F		N. D. LITCHFIE
101 & 105 BLDGS.		R. C. STANTON
200-W		T. E. CRAIG
200-E		G. W. DUTCHER
500-		B. M. ABT
600		R. T. GARDNER
800 & 900		D. C. GLADNEY
CAMP		W. D. GUMERSO
LAYOUT		K. R. BROWN
272		L. T. OLSEN
INSTRUMENTATION		F. H. TRAPNELI

ASST FIELD PROJECT MG  
W. V. KREWATCH

STRUCTURE SUPT.  
J. R. COLBATE

FIELD DESIGN ENGR.  
H. E. STRUCK

INDUSTRIAL ENGR. SUPT.  
W. S. CARPENTER III  
ASSTS.

W. E. CORANT  
B. W. FOSTER  
J. MAWDSLEY

SPECIAL ASSIGNMENT  
C. S. CRANE

STAFF ENGINEERS  
COMMUNICATIONS  
B. M. ABT

CONCRETE  
K. H. TALBOT

CIVIL  
R. F. MASON  
W. P. STEVENSON

P. & S.  
T. G. LA FOLLETTE  
T. C. STEEN  
W. E. ECKEL JR.

SPECIAL ASSIGNMENT  
R. M. CARPENTER

ASST. ENGR' OFFICE SUPT.  
J. A. PIERSOL

ENG'

ASST. ENGR'

ENGINEERS  
REPORTS & RECORDS  
F. B. TWIGG  
ASST.  
R. U. OWINGS  
JOB IMPROVEMENT  
G. R. MOORE  
OFFICE  
P. G. BINTZ  
ASST  
R. C. PARKER  
SIGN CO-ORDINATOR  
A. B. CASON  
COST  
J. J. ZACOVIC  
ASST.  
B. L. GAGE  
COST ANALYSIS  
E. A. JOHNSON

CONTR.  
H. J. I.

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MANHATTAN DISTRICT HISTORY

BOOK IV - FILE PROJECT

VOLUME 5 - CONSTRUCTION

APPENDIX C

REFERENCES

<u>No.</u>	<u>Description</u>	<u>Location</u>
1 ✓	Prime Contract W-7412 eng-1	District Office Files
2 ✓	Design Drawings Bearing Signatures of Approval.	District Office Files
3 ✓	Letters of Authorization from the District Engineer to Major W. L. Sapper, (2 DEC. 1943, A-43; 10 FEB. 1944, EIDMG-4-A; 1 JUL., 1944, EIDMG-4)	District Office Files
4 ✓	Letters of Authorization from the District Engineer to Colonel Matthias, (1 MAR. 1943, A-43; 14 JAN. 1944, EIDMG-4)	District Office Files
5 ✓	Reports on Soil Exploration from Seattle District Engineer.	Area Engineer H.E.W. Classified Files 671.1
6 ✓	Reports on Chemical Analyses of Columbia River water.	du Pont H.E.W. Central Files
7 ✓	Analyses of Exploration Borrow Pits	Area Engineer H.E.W. Classified Files 661 Topographical Maps
8 ✓	Reports on Studies of Electric Power Supply (B-6 Power Contracts; P-6 Power Priority)	H.E.W. Permanent Record Files
9 ✓	Material and Equipment Lists	H.E.W. Procurement and Supply Section Files

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<u>No.</u>	<u>Description</u>	<u>Location</u>
10 ✓	Government Procurement Regulations	H.E.W. Procurement and Supply Section Files
11 ✓	Subcontracts for Specialty Work	Area Engineer H.E.W. Classified Files
12 ✓	Treasury Procurement Files	H.E.W. Procurement and Supply Section Files
13 ✓	Wage Rate Adjustment Orders and Wage Rates	H.E.W. Permanent Record Files. Cabinet 16
14 ✓	Employee Training and Relations - Selective Service	H.E.W. Permanent Record Files. Cabinet 34
15 ✓	West Coast Plan - Selective Service	H.E.W. Permanent Record Files. Cabinet 341
16 ✓	Control Charts for Terminations	H.E.W. Permanent Record Files. Cabinet 713
17 ✓	Daily Project Force Reports	H.E.W. Permanent Record Files. Cabinet 810
18 ✓	Lanham Act (Public, 849, 70th Congress, 54 Stat. 1125, USC Title 42, Sec. 1521)	U. S. Government Files Washington, D. C.
19 ✓	Investigations of Projects having Similar Climatic Conditions	H.E.W. Permanent Record Files
20 ✓	Report of Planning Meeting for 1 April 1943	Area Engineer H.E.W. Classified Files 337 Case "VV"
21 ✓	Housing and Traffic Analysis of Hanford Camp, 17 August 1943	H.E.W. Permanent Record Files
22 ✓	Lanham Fund	U. S. Government Files Washington, D. C.

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<u>No.</u>	<u>Description</u>	<u>Location</u>
23 ✓	Test Tables for 106 Buildings	H.E.W. Permanent Record Files
24 ✓	Specifications for Van Stoning Flanges	Wilmington Engineering Dept. Wilmington, Del. Spec. No. 2032
25 ✓	Agreement between U. S. Government and the Bonneville Power Administration dated 26 February 1944	Area Engineers H.E.W. Classified Files 1G1

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MANHATTAN DISTRICT HISTORY

BOOK IV - PILE PROJECT

VOLUME 5 - CONSTRUCTION

APPENDIX D

DOCUMENTARY FORMS

Description

No.

- 1 Subcontract Procedure
- 2 Application for Higher than Routine Preference Rating
- 3 Direct Contract Procedure
- 4 Procedure for Rental of Equipment to Lump Sum Contractors
- 5 Letters for Clearance Request to WMC
- 6 Secret Letters Written by Secretary of War Patterson and Admiral King
- 7 Incentive Plan
- 8 Activities of the Training and Relations Division
- 9 D.S.S. Form 42A (Special)
- 10 D.S.S. Form 401-A
- 11 D.S.S. Form 42B
- 12 Extract from "Interim Report on Selective Service"
- 13 Alternate Site Plans for Hanford Camp
- 14 Safety Activities

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## SUBCONTRACT PROCEDURE

An outline of procedure followed by the Government and the Prime Contractor with regard to subcontracts follows:

1. A letter was drawn up by the Prime Contractor outlining phases of new work considered necessary. This letter contained the reasons for the work and the scope involved, together with a recommendation that the work be subcontracted, and was submitted to the Contracting Officer for approval.
2. Specifications and plans, together with the form of invitation and a list of bidders to whom invitations were to be sent plus all other pertinent pre-bid information, were submitted by the Prime Contractor to the Area Engineer's Office for review and approval.
3. Bids were received and opened by the Prime Contractor's Contract Engineer in the presence of a Government representative. A tabulation of bids was made and properly initialed by all present.
4. A letter recommending award to a particular bidder and stating reasons for the award together with the tabulation of bids was sent to the Contracting Officer.
5. When this letter, described in 4 above was approved by the Contracting Officer, it was returned to the Prime Contractor who then issued a letter of award or intent to the successful bidder; which letter normally indicated a time within which the subcontractor should

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commence work.

6. A record of purchase, together with a purchase requisition, retabulating the bids and showing the reasons for recommending one bidder over another, was forwarded to the Contracting Officer for his signature.
7. After approval of the record of purchase it was returned in toto to the Prime Contractor who then prepared, from the purchase requisition, a purchase order which was issued to the subcontractor as further evidence of the award. This purchase order usually recited not only the conditions of agreement but indicated that in due course of time a formal subcontract would be prepared for execution by the subcontractor and Prime Contractor and approval by the Contracting Officer.
8. A copy of the purchase order was forwarded to the Contracting Officer.
9. A subcontract form which had been previously approved by the Contracting Officer was forwarded to the subcontractor for execution. It was then executed by the proper Prime Contractor official, depending upon the amount involved; forwarded to the Contracting Officer for his approval; and returned, after approval, to the Prime Contractor.

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# Sister

HM 352 (Rev. 5/44)

Date: July 3, 1944

HANFORD ENGINEER WORKS  
REQUEST FOR APPROVAL OF  
AREA ENGINEER

**APPLICATION FOR HIGHER THAN ROUTINE PREFERENCE RATING**

1. Name and address of Applicant (Purchaser): Pur. Order No. Date of  
To whom Certificates should be issued: order  
E. I. du Pont de Nemours & Company RPO 18452 6-30-44  
P. O. Box 429  
Pasco, Washington

2. Name and address of manufacturer: (and supplier or dealer involved)  
For each item required:  
Seattle Hardware Company P. O. #73 T 613 D Blackhawk Manufact-  
uring Company  
Seattle, Washington Milwaukee, Wisconsin

3. Items to be covered by increased rating:

8. Items to be covered by the lease rating.

Quantity	Description	Value	Present Rating	Requested Rating
12	Blackhawk Hydraulic Pipe Benders #8-30-A complete with 1 $\frac{1}{2}$ ", 1 $\frac{1}{4}$ " and 2" Standard Radius Bending Shoes	\$1,000.80	AA-1	AAA

#### **4. Delivery Promises:**

<u>Required</u>	<u>Present Promise</u>	<u>Promise with increased rating</u>
7-15-44	8-15-44	7-7-44
Plant Site Date		

5. Basic cause of need for higher rating - Explain urgency, with specific facts.

Pipe Benders on this Order urgently required for bending stainless steel process pipe in 200 West Area, 221-T & U and 271-T & U Buildings. Benders now on Job are being used to capacity and are not available for this work.

S/Y. T. Matthias

P. T. Matthias, Lt. Col. C. E.  
DATE: 7/4/44

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## DIRECT CONTRACT PROCEDURE

The procedure with regard to Direct Contracts follows:

1. Plans and all other pertinent bid data were prepared by the Government. ✓
2. Invitations to bid were mailed to qualified prospective bidders. ✓
3. Bids were received, opened, and tabulated; the successful bidder was selected and notified of the award, usually by a letter of intent. ✓
4. The formal contract was executed by the Contractor and the Contracting Officer. ✓
5. Supervision of work was accomplished principally by arrangement with the Prime Contractor for inspectors to supplement the Government Inspectors assigned to the work. ✓
6. All changes in the amount or scope of work were requested by letter to the Contractor and usually preceded by verbal negotiation with the Contractor. This was followed by a formal modification, either a change order or a supplemental agreement which was executed in the same manner as the contract document. ✓

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~~SECRET~~PROCEDURE FOR RENTAL OF EQUIPMENT TO LUMP SUM SUBCONTRACTORS

It might be necessary from time to time, in order to prosecute the work in accordance with pre-determined schedules, to furnish the subcontractors with certain equipment. This practice is not to be encouraged since lump sum subcontractors are expected to furnish the necessary equipment to complete the work for which they have contracted. The subcontractor should, in all cases, be urged to procure equipment from an outside source, and only when all other methods have failed, should any offer of rental H. M. E. equipment be made.

Before any agreement is entered into or any commitment, verbal or otherwise, is made to the subcontractor, the request for rental and the availability of the equipment shall be cleared by the Contract Engineer through L. S. Grogan, Field Superintendent, and J. O. Salisbury, Assistant Field Superintendent.

Should it be necessary rent equipment to the subcontractor, a letter form of Rental Agreement (Exhibit "A") in six (6) copies will be prepared by the Contract Engineer. This agreement will set forth all information as to number, type, value and rental rate of equipment, as well as the terms and conditions under which the equipment will be rented. The six (6) copies of the agreement will be submitted to the subcontractor for signature and acceptance of the rate and terms of rental. The agreement will then be returned for approval of du Pont and the Contracting Officer after which the following distribution will be made:

Contracting Officer	3 copies
Subcontractor	1 copy
Contract Division	1 copy ✓

Before any equipment may be delivered to the subcontractor, it shall be inspected by both a du Pont and Government equipment inspector in the presence of a representative of the subcontractor, and the necessary report prepared. At the conclusion of the rental period and on return of the equipment by the subcontractor, the equipment will again be inspected by representatives of du Pont, and subcontractor, and the Government. The two reports shall be compared and any damages noted shall be charged to the subcontractor.

Rental charges will be accumulated and at the end of each month, the accrued charges will be submitted to the subcontractor for acceptance. This acceptance will then become the basis for a deduction from partial payment due the subcontractor.

All requests for rental of Government equipment to subcontractors shall be handled in accordance with the above outlined procedure.

G. P. CHURCH  
FIELD PROJECT MANAGER

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HANFORD ENGINEER WORKS  
PROJECT 9536  
EQUIPMENT RENTAL

In order to prosecute the work under our subcontract in an expeditious manner and to comply with schedules previously established for the work, it is necessary that we procure additional equipment at an early date. Since all available equipment is now in use on our work and having exhausted every possibility of obtaining additional equipment from outside sources, we request that the equipment listed below be furnished us on a rental basis for use on the plant site:

<u>EQUIPMENT NO.</u>	<u>TYPE OF EQUIPMENT</u>	<u>VALUATION</u>	<u>RENTAL BASIS</u>
----------------------	--------------------------	------------------	---------------------

It is our understanding that the following general terms and conditions shall apply to the rental of this equipment and all such terms are acceptable to us.

- (1) Equipment shall be in a condition to render efficient, economical and continuous service when delivered to the subcontractor. The equipment shall be inspected by duPont and Government inspectors, in the presence of a representative of the subcontractor, before being released to the subcontractor and again upon being returned at the completion of the rental period. The equipment shall be returned in the same condition in which it was received less normal wear and tear and any damages as determined by inspection by the du Pont Company and Government inspectors shall be chargeable to the subcontractor.
- (2) Rental rates shall be the applicable rates as listed in Office of Price Administration Maximum Price Regulation No. 134 as revised by Amendments Nos. 1, 2 & 3. Such rates shall be based on the daily, weekly, or monthly (whichever is most equitable to the subcontractor) rate as contained in and computed in accordance with this regulation.
- (3) The rental period shall begin upon delivery of the equipment to the subcontractor at its present location and shall terminate on the return of the equipment to the duPont Company at the point of origin or an equivalent or equa-distant point.
- (4) The rental charges shall be accumulated over the rental period and monthly statements of the charges will be forwarded to the subcontractor for acceptance. These charges

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will then become the basis for a deduction from the payments due the subcontractor or partial payment estimates.

- (5) The rental fee shall not include the furnishing of operator, fuel, lubrication, maintenance, or any service for the equipment, or shall it include the cost of transporting the equipment to or from the site of the subcontractor's work.

If the du Pont Company is required to transport the rented equipment to or from the site of the subcontractor's operations, an additional charge shall be made. This charge will be accumulated on a "Work Order", and such charges will also be deducted from funds due the subcontractor. Equipment not having pneumatic tires shall in no case be moved under its own power, distance in excess of (1) one mile.

- (6) Upon acceptance of the equipment, the subcontractor shall assume full responsibility for any loss or damage to the equipment while it is in his possession. In the event of total destruction, the measure of damage shall be the valuation of the equipment as shown herein.

The equipment shall be lubricated, maintained and serviced in strict accordance with manufacturer's instructions and shall be subject to inspection at any time by representatives of du Pont or the Government, for the purpose of determining whether or not the equipment is being properly serviced. Failure on the part of the subcontractor to properly maintain and service equipment shall be sufficient cause for termination of the rental agreement, and the immediate return of the equipment to the du Pont Company.

- (7) Upon receipt of ten (10) days written notice from du Pont, the rental of any or all equipment covered by this agreement may be terminated, and the equipment shall be returned by the subcontractor to du Pont.

This letter, therefore, will constitute our formal request for the furnishing of the equipment as listed herein and our agreement to accept the terms, conditions, and Price Regulations as referred to herein. This will further serve as your authorization to deduct from payments due as the rental charges for the equipment furnished in compliance with this request.

---

(SUBCONTRACTOR)

APPROVED:

BY \_\_\_\_\_

E. I. du Pont de Nemours & Company

Contracting Officer

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C O P Y

WAR MANPOWER COMMISSION  
Washington

July 3, 1943

Paul V. McNutt  
Chairman

To: All Regional Manpower Directors  
  
From: Lawrence A. Appley,  
Executive Director  
  
Subject: Recruitment for the Hanford Engineering Works

Attached is a communication dated June 25, 1943, from Mr. James T. Mitchell, Director of the Industrial Personnel Division, Army Service Forces.

I fully concur with Mr. Mitchell's emphasis of the importance of the Hanford Engineering Works now being constructed at Pasco, Washington, under the supervision of the Corps of Engineers of the United States Army. Will you, therefore, assure that clearance orders for this project directed to your region against current and subsequently assigned quotas, receive absolute preference over that accorded clearance orders for any other Army contracts.

A member of the Region XII staff has been assigned to the Pasco project and has been authorized by the Regional Director to deal directly with applicant-holding regions to which orders have been directed on recruitment patterns issued by Washington headquarters.

Because of the importance of the facility under construction by the Hanford Engineering Works, I recommend that the information contained herein be transmitted to the State War Manpower Commission offices in your region, and that all local offices be apprised of the priority in service that should be given to recruitment for the Hanford Engineering Works.

For the Executive Director

Albert L. Nickerson, Director  
Bureau of Placement

Attachment

cc: Otto S. Johnson  
John Flaherty  
Robert E. Rose  
A. F. Hardy  
Central Clearance  
S. P. Colgate

Mr. Lawrence A. Appley  
Executive Director  
War Manpower Commission  
Washington, D. C.

Dear Mr. Appley:

There is being constructed at Pasco, Washington, under the supervision of the Corps of Engineers of the United States Army, a facility known as the Hanford Engineering Works. This facility is of the highest importance to the War Department and it is imperative that it be completed at the earliest possible date.

To that end, it is requested that the War Manpower Commission afford the labor requirements of the Hanford Works the highest possible priority. Between this facility on the one hand and other War Department facilities and private employers producing for the War Department on the other, there is no question that the Hanford Engineering Works should be given absolute preference. However, because of the general manpower shortage on the Pacific Coast, the importance of aircraft, shipbuilding and other war activity being carried on in the Pacific Coast region, because of the increasing availability of construction workers in other parts of the country and because transportation costs of workers moved to Pasco from other parts of the country can be paid, it is suggested that recruitment for the Hanford Engineering Works be restricted to areas other than the Pacific Coast. This will permit timely completion of the Hanford Engineering Works without aggravating the already serious manpower situation in Seattle, Portland, San Francisco, Los Angeles, and other coastal cities.

We will appreciate your transmitting to appropriate members of your headquarters staff, as well as to directors of the regions in which recruiting for this project is being carried on, information concerning the overriding priority which should be accorded the Hanford Engineering Works.

I am keenly aware of the problems in War Manpower Commission operations created by frequent statements by the several procurement agencies that a certain project or activity is of the highest importance and should be accorded top priority. Nevertheless, this letter is written because it is not possible to overestimate the importance of the Hanford Engineering Works. I regret that I cannot give you more detailed information as to the reasons for the extreme essentiality of this project.

Questions which your staff may have concerning this matter should be referred to the Industrial Personnel Division, Headquarters, Army Service Forces.

The cooperation and assistance of the War Manpower Commission in expediting the completion of the Hanford Engineering Works will be greatly appreciated.

Sincerely yours,

James T. Mitchell, Director  
Industrial Personnel Division  
Army Service Forces

C O P Y

Draft of letter to Mr. McNutt over signature of Admiral King, USN

I understand that the War Department has asked the War Manpower Commission to accord absolute priority in recruitment of labor to two construction projects: the Hanford Engineer Works at Pasco, Washington, and the Clinton Engineer Works at Clinton, Tennessee.

These two projects are of first importance to the successful prosecution of the war and I am in full accord with the requested priority in labor recruitment.

I understand that in some instances operation of this plan may hamper local recruitment for work in which the Navy Department has an interest. However, because of the extreme importance of these projects, the requested priority is necessary.

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C O P Y

Mr. Paul V. McNutt, Chairman  
War Manpower Commission  
Room 5554, Social Security Building  
Washington, D. C.

Dear Mr. McNutt:

Two of the War Department's most vital construction projects, the Hanford Engineer Works at Pasco, Washington, and the Clinton Engineer Works at Clinton, Tennessee, are facing immediate and serious delays because of a critical shortage of common laborers.

This shortage is not a recent development. For a number of weeks, lack of an adequate number of laborers has seriously hampered the progress of work on both projects. Now, however, it has reached a point where completion dates will not be met unless effective action is taken within the next week.

Facilities in process of construction at these locations are of first importance to the National safety and must be built--completely and on schedule. If they are not, the successful prosecution of the war will be endangered.

Various measures intended to meet the labor shortage have been taken by the War Manpower Commission through the United States Employment Service. These measures have not proved successful and it appears, on the basis of experience to date, that they cannot be successful because they are inadequate.

It is my considered opinion that the manpower needs of these projects must now be given priority over all other activities, including the requirements of private contractors engaged in war production.

To implement this program, I believe the requirements of these projects must be given precedence over those of all other employers, both local and non-local. I believe that in each local United States Employment Service Office where recruitment is undertaken, workers must not be offered any other employment opportunities until after they have been rejected for employment on these projects or express an unwillingness to accept employment on these projects.

It should not be necessary to continue this arrangement over a long period of time. Compared with the total manpower needs of industry, the requirements of these projects are relatively moderate.

Information as to the exact requirements of this work is in the possession of Mr. James Bond and Mr. Stephen Wood of your organization, who have been working on the problem with representatives of the War Department.

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C O P Y

I cannot urge too strongly that arrangements for recruiting on a basis of absolute preference be made effective as soon as possible. They should be in operation by July 20.

Sincerely yours,

Lt. Col. Collins 74963  
J. P. Mitchell 7/16/43  
40-480, Pentagon

ROBERT P. PATTERSON  
Acting Secretary of War

Incentive Plan. - On 28 October 1943, an "Incentive Plan" was inaugurated at the Hanford Engineer Works. Persons, other than those whose expenses were paid through transfer agreements, employed by the Prime Contractor and Cost-Plus-Fixed-Fee Contractors, were eligible for incentive payments on the basis of satisfactory attendance. The main purpose of the plan was to increase production and decrease absenteeism and employment turnover on the Project. Payments (in the form of a bonus) were based on railroad coach fare to and from recruitment points for recruited employees; for those employees interviewed and hired at Pasco, from last previous point of employment to Pasco.

Upon completion of four months of satisfactory attendance subsequent to 28 October 1943, or date of active employment if such is later, an employee was eligible to receive railroad coach fare from Pasco. If employed prior to 28 October 1943, the employee must have completed four months of satisfactory attendance after 28 October 1943, to become eligible, but at completion of this satisfactory attendance, the employee was immediately given credit for his service on the Project prior to 28 October 1943, in an amount not to exceed three months.

Satisfactory attendance for the purpose of the plan required that an employee must not have been absent more than two working days in any one month. Excuse for absence due to illness was granted only when properly authenticated by a physician's certificate. The only other excusable absence was that caused by a pre-induction physical examination for the Armed Services, and if more than the two allowable days per month, even this absence required certification by the draft board.

Employees terminated, due to reduction of force, in less than four

months after 28 October 1943, or date of employment if later, were eligible for the allowances provided they had qualified by the accumulated satisfactory attendance during the full period of their employment.

Employees terminated due to discharge for cause, or who voluntarily quit, prior to accumulating the four months satisfactory attendance record forfeited the allowance to Pasco. If employees had received the allowance to Pasco, and were discharged for cause, or voluntarily quit, prior to accumulating the three months additional satisfactory attendance record, they forfeited the allowance from Pasco.

Employees terminated by their employers for reasons beyond their control were eligible for the allowances. One exception to this was that any person laid off for falsifying his application was not entitled to any incentive payments, unless he had successfully completed four months satisfactory attendance prior to his discharge. He then would receive his earned allowance.

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AN ANALYSIS OF  
ACTIVITIES BEING CARRIED ON BY  
THE TRAINING AND RELATIONS DIVISION  
WHICH RELATE TO  
THE MOBILIZATION AND UTILIZATION OF MANPOWER

AT  
HANFORD ENGINEER WORKS  
HANFORD, WASHINGTON  
MAY 1944

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PREFACE

The Training and Relations Division, particularly its Training Section, always has viewed the attainment of the highest degree of manpower utilisation as its major aim. This has made necessary the breaking down of complex operations into simple individual jobs that can be handled by inexperienced and quickly trained workers. The Division constantly strives to give thought to those activities which directly or indirectly contribute toward good morale, which in turn inevitably results in increased production, higher quality of workmanship, maximum man-hours on the job and low turnover of personnel.

We voice our appreciation to the Training Within Industry Division of the War Manpower Commission, the Division of Vocational Education of War Production Training, Apprentice and Training Service of the War Manpower Commission, Wilmington and local plant management for the invaluable help, so courteously and freely given, in assisting our division supervision in carrying out assignments and responsibilities.

JOHN C. PULLING  
ASS'T. SUPERVISOR

JOHN P. SEMBOWER  
SUPERVISOR

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TRAINING SECTION

I. ORIENTATION -

Two Orientation sessions (Field and Office personnel) are held daily for all new employees on the day they first report to work. The purpose of these meetings is to pave the way for better job relations by presenting the procedures affecting employees which will make for a smooth running organisation and a pleasant, agreeable place to work. Attempt is made to answer a number of very natural questions in the minds of the employees and bring about a better understanding while working in Hanford.

It is reasonable to assume that Orientation serves as a "Welcome" to the new employee, overcomes to some extent the confusion existing in the mind of the newcomer and materially decreases training time spent with new employees on the job. The need of being present on the job is stressed with an appeal made to the men's enlightened self-interest and to their patriotism in order to utilise all manpower assembled here. Safety is high-lighted, one of the aims being to emphasise the saving of man-hours through eliminating accidents and unsafe practices and thus increasing production. If it fulfills its purpose, Orientation as given here will boost the morale of the newcomer considerably. It is felt that much progress has been made in this phase of training as no effort has been spared in exercising a constant vigil over the contents of the program.

II. TRAINING WITHIN INDUSTRY PROGRAM OF THE WAR MANPOWER COMMISSION

Appreciation sessions in all three JT Programs (Job Instruction Training, Job Relations Training, Job Methods Training) have been

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given by TWI representatives to all upper-bracket management supervision. A number of institutes have been held on the Project in order to qualify trainees as instructors. Top training supervision has participated in Program Development Training and is using this method in spotting training needs, analyzing them and developing specific job training programs.

As the nature of training in relation to Construction work differs somewhat from that of the usual industrial manufacturing Operations around which the various "J" courses are built, considerable pioneering has been done in revising the standard manuals offered by TWI. Actual construction jobs for this Project have been included, as examples in the outlined courses, and they are described with construction terminology.

A. Job Instruction Training

Nearly 3,000 members of supervision have received this training. Classes continue to be scheduled weekly.

B. Job Instruction Follow-through Training

No training program is worthwhile unless it gets results in terms of improved production or service. With this thought uppermost in mind, a simple, logical, extremely practical follow-through program has been arranged for this Project. Seven qualified men from the Field Crafts devote their full time to making contacts, giving instruction and assisting in the progress of the program. They might properly be referred to as "Follow-through Coaches," whose job it is to help supervisors in the application of instructional skill to everyday problems and situations.

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Evaluation data is collected by these men, assisted and counseled by our Training Department.

C. Job Relations Training

This ten-hour program designed for foremen and supervisors furnishes a practical method for applying leadership principles gained through previous training and experience. Relations training has been received by a little less than 500 supervisors and foremen to date. This number will increase greatly, as JIT is completed and more emphasis is given to JRT.

D. Job Methods Training

One institute has been given for this course, but actual scheduling of instruction has been held in abeyance until most employees have completed JIT and JRT. However, this third package in the TWI program is a part of the contemplated course material for H. E. W.

III. SUPPLEMENTARY WAR PRODUCTION TRAINING COURSES

Sponsored by the Training & Relations Division, these courses are made available to Hanford Engineer Works employees, without cost, by the Richland School District and the State Board for Vocational Education. Courses are not compulsory but are designed to help the worker do better the job to which he is assigned. Only men employed in a particular craft are permitted to enroll in classes which pertain to that craft. A record is kept in all personnel file folders of any and all supplementary classes attended and grades received. Due consideration can be given these records by supervision in determining the employee's merit for up-grading, utilisation of his highest skill

on the job, etc. In general, the classes continue for a six-week period at which time new enrollments are accepted. They are scheduled twice weekly and each session lasts two hours. Qualified instructors are selected from the Crafts that they teach, and in most instances have a minimum of ten to twelve years practical experience in the work that makes up the course.

#### **IV. APPRENTICE TRAINING OF WAR MANPOWER COMMISSION**

Construction work is ordinarily of such a temporary nature that it does not readily fit into a long range program extending for a period of years, as does an apprentice training setup. However, Mr. Walter Lee, Ass't. Director of Apprentice and Training Service of the War Manpower Commission, has visited this Project a number of times and serves as a Consultant on the H. E. W. Central Guidance Committee which regulates the Supplementary War Production Training Program.

#### **V. CLERICAL TRAINING**

##### **A. Filing, Shorthand and Typing**

Refresher courses of varying length are held in these subjects as the need arises and requests are made to the Training Department for assistance.

##### **B. Comptometer Operators**

Many new employees with some but not full qualifications for this work have been given one full week of training and assigned to various Accounting and Control Departments. Follow-up training of one hour a day for a period of four weeks winds up the training.

##### **C. "Business Girl"**

A comprehensive guide of procedure for stenographers and typists, covering office decorum and recommended correspondence methods. A revision of this manual is now underway.

D. Field Clerks

A survey of the field is being made to develop an analysis of the field clerical job. When this survey has been completed, outstanding clerical personnel will be called in for a conference on field clerical job analysis in order to develop a training pattern. Following this training, courses will be set up to supply the field with clerical help that is sorely needed due to extensive induction into military forces.

E. Office Methods

The purpose of this course for secretaries, stenographers and typists is to train them in office decorum, telephone technique, courtesy, job relations, posture, etc.

VI. CRAFT TRAINING PROGRAMS

A. Boiler Firemen

It was recognised the early part of September that the firing of the boilers to be used on this Project was somewhat of a "lost art." The firemen arriving on the Project had not had sufficient experience with this type of boiler to fire them safely, efficiently and economically. At this time there were approximately 100 firemen on the Project, most of whom were only partially qualified. It was also recognized that during the cold winter months approximately 650 qualified firemen would be required. Therefore, Earthworks and Hanford Utilities requested

the assistance of the Training and Relations Department in setting up and putting into effect a training course that would aid in overcoming the foreseen situation.

This program has proven itself from the fact that since its inauguration last September, no boilers have been blown up nor has major damage to equipment resulted from the lack of trained boiler firemen. It enabled the Earthworks and Hanford Utilities to maintain a force of over 600 qualified firemen on the Project for several months. In all, approximately 940 boiler firemen have been trained by this program.

B. Craft Training Crews

Plans are now being worked out for organizing ten or twelve experienced foremen in each craft to act as training foremen. Assigned to them will be new men who will be transferred to other groups as openings occur. Novice crews in training will be kept on productive work, but a prime objective will be development of the man as well as the job. It is contemplated that our Training Department will work closely with these training foremen, supplying them with such techniques as they may require and serving them with information to assist in curtailing the turnover of new workers. Three crafts have appointed training crews to date.

C. Craft Handbooks

Standard procedure material has been collected, edited and compiled in handbooks in the following crafts: Concrete, Labor, Rigger, Mechanical, Reinforcing Steel, Transportation, Earthworks, Carpenter, Pipe and Electrical.

D. Supervisory Training

This training has been mostly in two crafts, Labor and Carpenter, but will be extended to cover the whole field as rapidly as possible. Material deals with specific problems confronting foremen daily with a clear outline of appropriate methods for treating them. Personal planning and scheduling is taken up by the conference method. The foreman is helped by getting a comprehensive picture of the many phases of his job. Such courses complement the TWI program.

E. Automobile Mechanic Training

Some of the auto mechanics hired on the Project were not familiar with the various types of automotive equipment which they were expected to repair. Several mechanics had been working in other fields for sometime and were not acquainted with the latest types of engines. It was also noted that there was a general weakness in the mechanics on the roll as to the knowledge of the functioning and repair of automotive ignition systems and carburetors. In brief, many of the mechanics did not have the necessary "know-how" to perform a satisfactory and efficient job. For this reason, it was believed that a general training course would improve the over-all job-knowledge and interest of the auto mechanics on the Project.

The general training program has increased the "know-how" of the auto mechanics who have taken the training. Various foremen have noted improved performance in the mechanics taking the course. General interest and morale have been increased. Through

April 29, 1944, forty-nine (49) mechanics had been trained and the scheduling of men continues.

F. Welder Training

Tests were given to welders the early part of November, 1943. However, it was found that a high percentage of the welders tested failed the test. It became apparent that a general period of instruction should be given all welders being tested in order to qualify them for the examination. Standardisation of welds could be stressed at this time.

This training and testing program has assured the Project that only qualified welders will be sent into the field. The program has also aided materially in standardising the methods and types of welds. Since January 15, 1944, 308 U-69 welders have been trained and tested and 208 have been qualified. This program continues to operate.

G. Millwright Training

On April 18, 1944, a program for training millwrights was initiated by the Mechanical Department at H. E. W. This was in demand, due to the fact that experienced millwrights could not be obtained in sufficient number, particularly those skilled in making inside installations.

Approximately thirty men are trained weekly. Sessions are held nine hours per day six days per week. The fundamentals of measurements are basic training proceeding from the 6" rule, steel tape, dividers, calipers and dial indicators. Practice in tool use covers twist drill, reamers, taps and dies. Classroom instruc-

tion is alternated with actual instruction on the job.

#### H. Concrete Training

Visual charts outlining operation procedure for Pumpcrete machines have been used to train men in the correct technique required. A booklet for the Concrete worker is now in preparation. It follows along the pattern of the JIT breakdown sheet. Labor jobs are broken down into steps, and key points peculiar to the job are stressed. Many points of Concrete Labor procedure are simplified and standardized into synchronized effort of operation.

### VII. SPECIAL TRAINING COURSES

#### A. Pasco Recruiting

The Recruiting Division Office has been assisted in reprocessing their procedure as it applies to reception and pre-project orientation; i.e., establishing better Job Relations with the new employee before reaching the Project.

#### B. Sound-Slide and Motion Pictures

One man in the Training Department devotes his full time to the showing of training and morale building films (War and Navy Department releases). Requests for this service are growing weekly. A sound-slide film is being developed on the Project entitled "Good Housekeeping as Applied to the Carpenter Craft," and if successful, will be followed by several others now being considered.

#### C. Pamphlet: Training Trends and Topics

Issued weekly, this mimeographed sheet is meant to assist Supervision with training problems. Its aim is to be constructive.

the Army in their school for bakers and cooks at the Presidio in San Francisco, California.

An opportunity will be provided for voluntary training of employees on their own time, under the auspices of the Supplementary War Production Training Department of the State Vocational Education Service.

G. Training in the Division

With the preparation and delivering of instructional material which is useful in training men to fill specific jobs as one of its major tasks, this Section has not neglected the development and upgrading of its own personnel. Daily sessions are held with the trainers for the purpose of improving the quality of their performance. As a direct result, upwards of a dozen men have been transferred out of the Section to recruiting service, other crafts and various special job assignments. Such moves have meant enlarged responsibilities for the men involved on tasks where their skills could be utilized to best advantage for the Project. In most instances this has meant increased monetary advantage to the men, their worth to the company having become greater than when originally hired.

RELATIONS SECTION

I. PUBLICATIONS

- A. "Dear Anne" was prepared by this division to be used throughout the country by recruiters. Its aim is to expedite recruiting by giving prospective female employees a true picture of living conditions in Hanford and the general type of job to be done here.
- B. "Highlights of Hanford" was prepared by this division to be used throughout the country by recruiters. Its aim is to expedite recruiting by giving prospective male employees a true picture of living conditions in Hanford and the general type of work carried on here.

A great variety of handbills and small pamphlets such as "You Fit Into This Picture" have also been prepared for the use of the Recruiting Division.

- C. "Here's Hanford" is a booklet containing a map of the facilities area in Hanford and an alphabetical list of facilities, with the services they render and the hours they are open. By giving information on services available in Hanford, this booklet is designed to eliminate trips away from the Project to secure service which workers can get here, and to enable them to plan to take advantage of the facilities available by keeping them informed on the hours they are open. The list of recreational facilities, churches, and all group meetings has special value in enabling the workers to enjoy their time off and thus make them better satisfied with the job.

D. "The Sage Sentinel"

The Plant publication is issued weekly to inform, educate and propagandize all workers in the field and administration areas. There is strong emphasis on safety, absenteeism, war bonds, conservation (of gasoline, electricity, etc.), the Red Cross, salvage (paper and tin), fire prevention, job improvement, rationing, the danger of rumors, the importance of the job, etc. Material of this type is balanced with feature articles and pictures to develop community interest and pride; morale-building poetry and editorials; cartoons, information and news about stores, recreation and improvements that will benefit the employee. It has done much to foster a community spirit which is extremely helpful in building morale.

II. PUBLICITY: BILLBOARDS AND POSTERS

A 70-foot war bond billboard consistently using a patriotic appeal is located on B Avenue. A 30-foot board on the same street and a similar board at the entrance to the 100-B Area show craft standings in absenteeism. Additional billboards are in process of construction.

Numerous posters on absenteeism and other employee morale themes have been prepared and distributed and placed in the field, and many war bond posters have been placed throughout the Project.

III. INFORMATION OFFICES

This service has been authorised by management for three main purposes:

- A. To save man-hours in the field by taking from the shoulders of supervision the burden of answering innumerable employee requests

[REDACTED]

for all kinds of information.

- B. To improve employee relations, thereby reducing turnover, by helping them to solve their personal problems that affect their work.
- C. To bolster morale by providing a place where employees may "let off steam" and register complaints which will receive the attention of management.

Many personal grievances are received, analyzed, and those which seem to have some substance and for which probable correction appears likely are reported to proper authorities for action. At the present time, readily accessible offices are located in Hanford, Richland, Areas 100-B, 100-D, 200-E, 200-W, 300 and Central Shops.

Many suggestions received from disgruntled employees by the Job Improvement Section are routed to the Relations Department for personal handling direct with the employee. As a direct result of this service, terminations have been prevented and needed manpower saved for the Project.

In connection with the Information Service offices, there has been established a free Income Tax Service for all Hanford employees. This department has had excellent cooperation from the Internal Revenue Service, and during the filing season deputies from that office are sent to Hanford to assist and advise taxpayers. Thousands of man-hours have been saved by the establishment of this service.

[REDACTED]

~~SECRET~~  
SELECTIVE SERVICE SECTION

In order to avoid unnecessary absenteeism and consequent loss of manpower due to employees taking time off to confer with local boards in Pasco, Prosser, Yakima, our Selective Service Department with the approval of the State Division of Selective Service completed arrangement for the establishing of a Transfer Board on the Project. Thousands of man-hours have been saved to the Project by the functioning of this board.

Confusion exists in the minds of many employees as to the interpretation of Selective Service regulations. Many immediate terminations are forestalled by our interviewers who explain to employees who are under the impression that their induction is imminent, that it may be months before they will be called to the service, and, therefore, it is to their best interests to remain on the job rather than return home and be unemployed for a long interval. The draft status of each man is a very real and personal problem to him and appreciation has been expressed by many individuals for the information furnished them by the Selective Service Section.

The U. S. Army Engineers, United States Employment Service office, the State Director of Selective Service as well as the several local boards adjacent to the reservation always have rendered wholehearted cooperation and continue to be of great assistance in helping the Project to conserve manpower necessary to the war effort.

~~SECRET~~

## SELECTIVE SERVICE SYSTEM

Bureau Budget No. 38-R088.3.  
Approval expires Oct. 31, 1945.**AFFIDAVIT—OCCUPATIONAL CLASSIFICATION (Special—Revised)**

(Submit in triplicate, plus any additional copies specified by certifying agency)

**Name of company** \_\_\_\_\_

(Corporation, partnership, individual—if self-employed, no state)

**Address at which  
registrant is employed** \_\_\_\_\_

(Location of plant, office, or division where registrant works)

(City) \_\_\_\_\_

(State) \_\_\_\_\_

**Description of the activities of this establishment** \_\_\_\_\_

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**Social Security Industrial Code** \_\_\_\_\_

(If not known, call local U. S. E. S. office)

**Name of registrant** \_\_\_\_\_**Selective Service Order No.** \_\_\_\_\_**Date of birth** \_\_\_\_\_**Local Board** \_\_\_\_\_

(Number) \_\_\_\_\_

(County) \_\_\_\_\_

(City) \_\_\_\_\_

(State) \_\_\_\_\_

**Title of present job** \_\_\_\_\_

(State whether journeyman, apprentice, helper, certificated, licensed, professional engineer, etc.)

**Describe duties actually performed** \_\_\_\_\_

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(Be specific—include name of machine or machine tool, process, materials, etc.)

**Date employed** \_\_\_\_\_**Date entered present job** \_\_\_\_\_**Average weekly rate of pay** \_\_\_\_\_**Average hours worked per week** \_\_\_\_\_**Prior work experience** \_\_\_\_\_

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**Educational background** \_\_\_\_\_

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(Fill out if necessary to establish employee's qualifications for a particular job)

## CERTIFICATE OF EMPLOYER

The undersigned hereby certifies that:

1. The deferment requested is necessary to maintain the operating schedule of the undersigned establishment.
2. The Job Title listed is accurate and the registrant is being utilized in the performance of the duties described to the fullest extent practicable.
3. The registrant cannot now be replaced and his removal would seriously impair the ability of this establishment to meet its operating schedule.
4. The attendance record of the registrant is satisfactory with respect to regularly scheduled work.
5. This establishment is taking steps necessary to achieve the effective utilization of its personnel.
6. This request will be submitted to only one certifying agency.

I, \_\_\_\_\_, certify that the foregoing statements  
(Name)  
are true to the best of my knowledge and belief.

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Date)

\_\_\_\_\_  
(Official position)

Please send Classification Advice and all related correspondence to:

\_\_\_\_\_  
Section 35A of the U. S. Criminal Code, 18 U. S. Code, Section 80, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

*Employer:* Leave this section blank. *Certifying Agency:* Complete this section only if request is certified.

## CERTIFICATE OF CERTIFYING AGENCY

\_\_\_\_\_  
(Name of agency authorized to certify)

\_\_\_\_\_  
(Agency code No.)

certified on \_\_\_\_\_ for a period of \_\_\_\_\_  
(Date) (Not to exceed 6 months)

I, the undersigned representative of the above-named certifying agency, on behalf of such agency, hereby certify that:

1. The statements contained in the above certificate of the establishment are true to the best of my knowledge and belief;
2. The employment and production conditions affecting the above-named establishment are such that I concur in the need for occupational deferment of the above-named registrant, and,
3. I join with the establishment in its request for the deferment of the above-named registrant.

### AUTHORIZED CERTIFYING OFFICER

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Rank or title)

Authorized Government Request Stamp must be entered  
here for Federal Government Employees only

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Date)

\_\_\_\_\_  
(Official position)

**Employer:** Leave this section blank. **Certifying Agency:** Complete this section only if request is certified.

### CERTIFYING AGENCY

\_\_\_\_\_  
(Name of agency authorized to certify)

\_\_\_\_\_  
(Agency code No.)

certified on \_\_\_\_\_ for a period of \_\_\_\_\_  
(Date) (Not to exceed 6 months)

Authorized Government Request Stamp must be entered  
here for Federal Government Employees only

\_\_\_\_\_  
(Local Board Date Stamp With Zone)

### LOCAL BOARD REPORT TO STATE DIRECTOR

This registrant has been classified in

Class \_\_\_\_\_ until \_\_\_\_\_

TRIPPLICATE

\_\_\_\_\_  
(Member or clerk of local board)

60 16-28020-1 U. S. GOVERNMENT PRINTING OFFICE

(Name)

(Date)

(Official position)

*Employer:* Leave this section blank. *Certifying Agency:* Complete this section only if request is certified.

### CERTIFYING AGENCY

(Name of agency authorized to certify)

(Agency code No.)

certified on ..... for a period of .....  
(Date) (Not to exceed 6 months)

Authorized Government Request Stamp must be entered  
here for Federal Government Employees only

(Local Board Date Stamp With Zone)

### LOCAL BOARD REPORT TO STATE DIRECTOR

This registrant has been classified in

Class ..... until .....

(Member or clerk of local board)

TRIPPLICATE

50 10-28096-1 U. S. GOVERNMENT PRINTING O

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Date)

\_\_\_\_\_  
(Official position)

**Employer:** Leave this section blank. **Certifying Agency:** Complete this section only if request is certified.

### CERTIFYING AGENCY

\_\_\_\_\_  
(Name of agency authorized to certify)

\_\_\_\_\_  
(Agency code No.)

certified on ..... for a period of .....  
(Date) .....  
(Not to exceed 6 months)

Authorized Government Request Stamp must be entered  
here for Federal Government Employees only

\_\_\_\_\_  
(Local Board Date Stamp Within Cung)

### LOCAL BOARD REPORT TO STATE DIRECTOR

This registrant has been classified in

Class ..... until .....

\_\_\_\_\_  
(Member or clerk of local board)

TRIPPLICATE

60-16-38026-1 U. S. GOVERNMENT PRINTING O

## SELECTIVE SERVICE SYSTEM

Budget Bureau No. 33-R002  
Approval expires Dec. 31, 1948**AFFIDAVIT—OCCUPATIONAL CLASSIFICATION (Industrial)**Affidavit—Occupational Classification (General), Form 42, is provided  
for use in activities where the items on this form are not applicable

Name of registrant.....

Selective Service Order No..... Age.....

Local Board.....  
(Number) (County) (City) (State)Job Title Code:  
Title of present job.....

State whether journeyman, apprentice, helper, certified, licensed, professional engineer, etc.:

Described duties actually performed. Publication of the details of this job is prohibited by  
(Be specific—include name of machine or machine tool, process, materials, etc.)the War Department. In case of question, the local board may request its  
State Headquarters to verify with State Headquarters for Selective Serv-  
ice for the State of Washington

Date employed..... Date entered present job.....

Average monthly rate of pay, \$..... Average hours worked per week..... 48

Prior work experience.....

Educational background.....

(Fill out if necessary to establish employee's qualifications for a particular job)

How long will it take you to replace this employee?.....

What specific steps have you taken to secure or train a replacement for this registrant? We are utilizing the  
facilities of the U.S.E.S. to the fullest possible extent. In addition, we  
are endeavoring to secure personnel by transfer of employees from other  
plants of this Company and its affiliates. Despite these efforts, we are  
experiencing great difficulty in properly staffing the plant.

# AFFIDAVIT—OCCUPATIONAL CLASSIFICATION (Industrial)—Continued

Name of company **Hanford Engineer Works, E. I. du Pont de Nemours & Co., Inc.**

(Corporation, partnership, individual—if self-employed, so state)

Address of company **P. O. Box 100, Richland, Washington**

(Location of plant, office, or division where registrant is employed)

Description of activities of this company **The Hanford Engineer Works, E. I. du Pont de Nemours & Co., Inc., is engaged in urgent vital war work. The work is highly confidential in nature, and is being performed wholly under the jurisdiction of the War Department**

State specifically what proportion of your products currently produced are:

(a) for use in the war effort **100%**

(b) for civilian use **None**

**Yes**

Is expansion or further conversion contemplated in war production

Number employees now	Number additional needed in next 6 months	Number additional needed in next year
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Explain

Is a replacement training program in operation? **Contemplated?**

Explain

This form was completed at the plant or office of the company located at

**P. O. Box 100, Richland, Washington**

and all correspondence relative to this affidavit should be so addressed.

I, **W. T. Cloud**

, do solemnly swear (or affirm)

that I am **Service Superintendent** of the above-named company, and that the  
(Official Position)

foregoing statements are true to the best of my knowledge and belief.

(Signature)

Subscribed and sworn to before me this day of **19**

(Signature of official administering oath)

(Official designation of official administering oath)

**INSTRUCTIONS:** This form is to be filled out by an employer or other person who has knowledge of the registrant's eligibility for Class II, deferment as a necessary man in his civilian occupation or activity. If the registrant is deferred, the employer must notify the Local Board promptly of any change in the registrant's job status, or if his employment is terminated.

~~SECRET~~ (SOL-A)

INDIVIDUAL CERTIFICATION

Affidavit--Occupational Classification (Form 42A) dated .....  
( ) Attached or ( ) Previously filed.

Name of registrant.....

Selective Service Order No.....Age.....

Local Board.....

(Number) (County) (City) (State)

Title of present job.....

The undersigned establishment hereby certifies that:

1. The deferment requested is necessary to maintain the operating schedule of the undersigned establishment for products, services, or activities under contract to the War Department or as a production subcontractor or production supplier thereunder.
2. This establishment manufactures products or provides services as stated on said Form 42A.
3. The Job Title listed above is accurate and the registrant is being utilized in the performance of the duties described in the said Form 42A to the fullest extent practicable.
4. The registrant cannot be replaced prior to the expiration of the period specified in said Form 42A and his earlier removal would seriously impair the ability of this establishment to meet its operating schedule referred to above.
5. This establishment is taking steps necessary to achieve the effective utilization of its personnel.

..... HANFORD ENGINEER WORKS.....

(Name of establishment)

at..... HANFORD, WASHINGTON.....

(Location)

.....  
(Signature)

SUPERVISOR-TRAINING & RELATIONS

(Title)

.....  
(Date)

I, the undersigned representative of the United States Engineer Office hereby certify that:

- (a) the statements contained in the above certificate of the establishment are true to the best of my knowledge and belief;
- (b) the employment and production conditions affecting the above-named establishment are such that I concur in the need for occupational deferment of the above-named registrant; and,
- (c) I join with the establishment in its request for the deferment of the above-named registrant.

.....  
(Signature)

..... MAJOR, CORPS OF ENGINEERS.....

(Rank)

..... EXECUTIVE OFFICER.....

(Title)

~~SECRET~~

**SELECTIVE SERVICE SYSTEM**  
**OCCUPATIONAL CERTIFICATION**

Name of employer \_\_\_\_\_

Address of employer \_\_\_\_\_

Brief description of activities of employer \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Name of registrant \_\_\_\_\_ Order No. \_\_\_\_\_

Local board \_\_\_\_\_  
(Number) \_\_\_\_\_ (County) \_\_\_\_\_ (City) \_\_\_\_\_ (State) \_\_\_\_\_

Title of present job \_\_\_\_\_

Brief description of duties \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Is registrant employed full time? \_\_\_\_\_ Part time? \_\_\_\_\_

(If the registrant is self-employed, he may sign this certification himself)

I, \_\_\_\_\_, DO HEREBY CERTIFY that the foregoing statements are true to the best of my knowledge and belief.

(Name of employer)

(Signature of person certifying)

\_\_\_\_\_, 19 \_\_\_\_\_  
(Date of mailing) \_\_\_\_\_ (Title) \_\_\_\_\_ GPO 16-31525-6

If the local board at any time upon review determines that the registrant should be considered for classification into a class available for military service, it will notify the employer by mailing him the attached notice, and will give him an opportunity to file Affidavit—Occupational Classification (Form 42 or Form 42A) for such registrant before completing the classification.

BUDGET BUREAU No. 33-R016  
Approval expires 5-31-44**NOTICE TO EMPLOYER OF REOPENING CLASSIFICATION**\_\_\_\_\_, 19 \_\_\_\_\_  
(Date of mailing by local board)

Name of registrant \_\_\_\_\_ Order No. \_\_\_\_\_

Local board \_\_\_\_\_  
(Number) \_\_\_\_\_ (County) \_\_\_\_\_ (City) \_\_\_\_\_ (State) \_\_\_\_\_

The classification of the above-named registrant has been reviewed, and will be reopened and considered anew 15 days after the above date. If you wish to file Affidavit—Occupational Classification (Form 42 or Form 42A) because of the occupational necessity of this registrant, such evidence must be forwarded to the local board within this 15-day period.

**SELECTIVE SERVICE SYSTEM  
SUPPLEMENT TO FEDERAL GOVERNMENT  
REQUEST FOR OCCUPATIONAL CLASSIFICATION**

(This form shall be used only as a Supplement to DSS Form 42 in all Federal Government requests for occupational classification except for employees on replacement schedules. Use additional sheets if necessary to complete any answer.)

(OFFICIAL STAMP OF COMMITTEE)

<sup>1</sup> L. B.—Local Board; B. A.—Board of Appeal; Pres.—Presidential Appeal.

12. Is the job of this registrant a key position approved by the Review Committee? ..... It was approved on .....  
(Date)

13. Are there unusual or special circumstances which make deferment necessary even though the registrant's job is not an approved key position? ..... If so, what are such circumstances? .....

14. State specifically the definite qualifications of the registrant for this job .....

15. Explain specifically the relation of this job to the war effort or to necessary supporting activities .....

16. Explain specifically how loss of registrant's civilian services would impair such effort or activities .....

17. How many employees do the same or similar work as this registrant? Males: 18-37 ..... ; 38-44 ..... ; Over 44 ..... ;  
Females .....

18. Describe specific efforts to secure or train a replacement (stating difficulties, if any) .....

19. Is a replacement and training program in operation ..... ; contemplated ..... Explain: .....

### CERTIFICATE

I, ..... , hereby certify (or affirm) that I am  Chairman  Secretary  
(Chairman or Secretary)

of the Committee whose stamp is affixed on page 1 of this form and that the foregoing statements are true to the best of my knowledge and belief.

(Date)

(Signature)

### PRIOR APPROVAL OF REVIEW COMMITTEE (If required under Part IV-1b of Executive Order 9309.)

\* If answer to Item 13 is "yes," and the position is in the Executive Branch of the Federal Government, occupational deferment is not to be considered unless the Review Committee executes the following approval:

The Review Committee gives, herewith, the prior specific approval to this request required by Executive Order 9309 and by Public Law 23 (78th Congress).

(Date)

Chairman.

~~SECRET~~

Extract from letter - J. F. Sambower to G. P. Church

"Interim Report on Selective Service"

Dated 1 August 1944

Cost studies in the Selective Service Section indicate that it has cost \$4.05 to handle each Selective Service case. The Selective Service Transfer Board, operated under Selective Service authority by the Selective Service Section, has saved the Project \$25,250.00 in man-hours conserved through employees not having to travel a distance for their pre-induction physical examinations and execution of Selective Service papers. The Selective Service office has operated with an average staff of 14 people.

~~SECRET~~  
ALTERNATE SITE PLANS FOR HANFORD CAMP

Plan I: The establishment of a combined construction and administration camp at Benton City, Washington, which had an estimated population of approximately 150, and was centrally located in Benton County, just outside the south reservation boundary line, and approximately twenty-four air miles from the center of the 100 and 200 Process Areas.

Plan II: The construction of three separate camps at sites "A," "B," and "C" with a general trend in consolidating all camps at site "A" upon start-up of the process areas. These camps were to be located as follows:

Camp "A" - Approximately two and one-half miles south of Hanford, Washington, on the west side of the Hanford-Richland Road, and approximately nine air miles from the center of the 100 and 200 Process Construction Areas.

Camp "B" - Approximately two miles north of Richland, Washington, on the east side of the old Hanford-Richland Road, on the west bank of the Columbia River, approximately twenty-two air miles from the center of the 100 and 200 Process Construction Areas, and two miles due south of the 300 Process Area.

Camp "C" - To be located at White Bluffs, Washington, in the northernmost portion of Benton County, on the west bank of the Columbia River approximately five air miles northeast from the center of the 100 and 200 Process Construction

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Areas and twenty-two miles northwest of the 300 Process Area.

Plan III: The consolidation of all camps at site "A."

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SAFETY ACTIVITIES

Safety activities initiated at Hanford were:

- a. Suggestion Contest. - In July 1943, a Safety Suggestion Contest which featured cash prizes for the winners was promoted. Money for the awards was obtained by personal donations from members of the staff.
- b. Citation Plan. - On 2 October 1944, a permanent Hanford Engineer Works Award Program was adopted. Under this plan, each employee who had been on the job six consecutive months without experiencing a major injury, and had worn safety shoes and goggles according to standards, was, with the recommendation of his foreman and the approval of the Craft Superintendent, Area Safety Engineer, and the Safety Superintendent, presented with an attractive wallet card citing him for meritorious performance. This card was signed by the Field Project Manager.
- c. "Spotlight" Program. - On 20 March 1944, a "Spotlight" program was used on the Project to promote safety. Putting the eyes of the Project on a single craft stimulated closer supervision and better safety performance in the craft. A similar program was developed for the groups in the offices.
- d. "Picture Puzzle" Contest. - To acquaint the workers with the many hazards of construction work, and to stimulate

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a desire to correct those hazards, a "Picture Puzzle" contest was put into effect on 28 April 1944. The contest featured a series of ten puzzle pictures which were published in the Project newspaper. Approximately \$200.00 in prizes were presented to the employees finding the largest number of unsafe practices in the pictures.

- e. Job Improvement Week. - Because of the tie-in of job improvement with safety thinking, the Safety Department launched an extensive campaign to promote safety suggestions. This campaign featured a "Job Improvement Week" 29 May through 3 June 1944, which netted a huge increase of safety suggestions.
- f. "No Accident Week". - A "No Accident Week" Campaign was launched to promote safety during the week of 3 July 1944. The campaign featured a pledge to work safely during the week, which was repeated orally by all employees at Safety Rallies and Gang Meetings. Although the campaign did not achieve its goal, it resulted in one of the safest weeks in the history of the Project, and proved to be a turning point for better safety performance.
- g. Safety Exposition. - Under the auspices of the Safety Department, a Safety Exposition was held at the Hanford Auditorium during the entire week of 24 July 1944.

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The object of this Exposition was three-fold. First, it was designed to step up the enthusiasm and increase the safety-consciousness of all workers on the Project. Second, it was planned to reach out and impress the message of safety on the minds of those people who lived on the Project but did not come directly in contact with the Safety Program. Third, it bolstered the general morale. That the objectives were attained was amply attested by the many expressions of approval voiced by the visitors, by the splendid attendance of 22,040 for the week, and by the enthusiastic support of all crafts and departments which actually provided most of the show through their own booths and displays. Stimulated by the safety records achieved following the Exposition, a highly concentrated and personalised campaign was launched to make the month of September accident free. The result of this campaign was indicated in the reduction of injuries from 68 in the six week period before "No Accident Week" to 22 major injuries in the following six week period.

- h. Area Competition. - Through Safety reminders, emphasis of area record, and publicity directed toward the most hazardous areas, a keen sense of area pride was stimulated which resulted in area competition. This activity united all areas in an effort to maintain safe construction at the Hanford Engineer Works.

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MANHATTAN DISTRICT HISTORY

BOOK IV - X10 PROJECT

VOLUME 5 - CONSTRUCTION

APPENDIX E

GLOSSARY

Bellows - A bellows is a gastight expandable fitting, joining the ends of the aluminum tubes to the steel gun barrels in the Pile, to compensate for longitudinal expansion of the aluminum tubes.

Evaporation Cooler - An evaporation cooler is a unit which consists of an electrically driven fan and an inlet water fitting and covered with a porous material. Water saturates the porous material and the fan draws air through this material with the result that the air is cooled due to the evaporation of the water.

Van Stone Flange - The Van Stone Flange is a flange formed on the ends of the aluminum tubes in the Pile by a precision reaming and spreading operation.

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(Name)

(Date)

(Official position)

*Employer:* Leave this section blank. *Certifying Agency:* Complete this section only if request is certified.

### CERTIFYING AGENCY

(Name of agency authorized to certify)

(Agency code No.)

certified on ..... for a period of .....  
(Date) (Not to exceed 6 months)

Authorized Government Request Stamp must be entered  
here for Federal Government Employees only

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### LOCAL BOARD REPORT TO STATE DIRECTOR

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Class ..... until .....

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60 16-20000-1 U. S. GOVERNMENT PRINTING OFFICE

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**TRIPPLICATE**

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(Date)

(Official position)

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