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# **Shay #6 Technical Data Handbook**

## **Western Maryland Shay #6**

### **Contents:**

**Original Order Specifications**

**Summary of Costs**

**Master Drawing Index**

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**Original Order Specifications  
Summary of Costs**

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Group 01 - Shay #6 - Construction Order and Specifications		
Item	Description	Specification
1.01	Order Number	510
1.02	Shop Number	3354
1.03	Road Number	6
1.04	Specification, Number	Y-150-17, Dated May 26, 1944
1.05	Specification - Class	150-3, Three Truck Shay
1.06	Specification - Customer	Western Maryland Railway
1.07	Conditions of Operation - Gauge	4' 8 1/2"
1.08	Conditions of Operation - Weight of Rail	80# and 90#
1.09	Conditions of Operation - Maximum Grade	7%
1.10	Conditions of Operation - Maximum Curve	22 Degrees, 30 Minues
1.11	General Dimensions - Height (from top of rail)	16' 0"
1.12	General Dimensions - Length (total wheel base)	49' 0"
1.13	General Dimensions - Width	11' 4"
1.14	General Dimensions - Water Tank Manhole	10' 9"
1.15	General Dimensions - Width (Centerline to Crank)	67 1/2"
1.16	General Dimensions - at Height Above Rail	25 1/2"
1.17	Cylinders, Number of	3
1.18	Cylinders, Diameter	17"
1.19	Cylinders, Stroke	18"
1.20	Driving Wheels, Number	12
1.21	Driving Wheels, Diameter	48"
1.22	Driving Wheels, Wheelbase	68"
1.23	Weight, Working Order	324,000 lbs
1.24	Tractive Power	59,740 lbs
1.25	Factor Adhesion	5.42
1.26	Fuel, Type	Soft Coal
1.27	Fuel, Capacity	9 tons
1.28	Water Tank, Capacity	6,000 U.S. Gallons
1.29	Boiler, Diameter	62 3/8"
1.30	Boiler, Pressure	200 lbs
1.31	Boiler, Type	Extended Wagon Top
1.32	Firebox, Length	114"
1.33	Firebox, Width	61 1/4"



<b>Group 02 - Shay #6 Locomotive Cost - Estimate versus Actual</b>						
<b>Item</b>	<b>Material Description</b>		<b>Estimated Weight</b>	<b>Actual Weight</b>	<b>Estimated Cost</b>	<b>Actual Costs</b>
2.01	Fire Box Plate		5,300	5,280	\$149.00	\$153.00
2.02	Flange Plate		25,000	28,048	\$642.00	\$751.00
2.03	Tank Plate		31,700	60,651	\$744.00	\$1,600.00
2.04	Structural		26,200	27,205	\$996.00	\$876.00
2.05	Forgings		51,900	53,178	\$2,381.00	\$2,132.00
2.06	Iron Castings		28,320	21,966	\$2,325.00	\$1,865.00
2.07	Brass Castings		4,810	4,726	\$1,161.00	\$1,028.00
2.08	Steel Castings		84,150	81,647	\$10,014.00	\$9,869.00
2.09	Tires		125,000	12,621	\$808.00	\$815.00
2.10	Rigid Stay Bolts		4,200	3,784	\$344.00	\$230.00
2.11	Rivets		5,100	4,884	\$239.00	\$211.00
2.12	Air Brake		0	0	\$1,034.00	\$1,046.00
2.13	Miscellaneous		0	0	\$3,000.00	\$2,684.00
2.14	Specialties		0	0	\$3,340.00	\$3,823.00
2.15	Plate to CMP Min.		33,000	0	\$766.00	\$0.00
2.16	Total Material Costs:				\$27,943.00	\$27,083.00

<b>Group 03 - Shay #6 Locomotive Labor - Estimate versus Actual</b>						
<b>Item</b>	<b>Labor Description</b>		<b>Estimated Cost</b>	<b>Actual Cost</b>	<b>Excess in Estimate</b>	<b>Axcess in Actual</b>
3.01	Smith Shop		\$1,075.00	\$626.00	\$449.00	\$0.00
3.02	Boiler Shop		\$2,274.00	\$2,294.00	\$0.00	\$20.00
3.03	Tank Shop		\$759.00	\$1,531.00	\$0.00	\$772.00
3.04	Truck Shop		\$2,277.00	\$889.00	\$1,388.00	\$0.00
3.05	Machine Shop #8		\$0.00	\$472.00	\$0.00	\$472.00
3.06	Machine Shop #9		\$9.00	\$582.00	\$0.00	\$582.00
3.07	Machine Shop #10		\$0.00	\$584.00	\$0.00	\$584.00
3.08	Eerecting Shop		\$113.00	\$2,637.00	\$0.00	\$2,524.00
3.09	Shay Machine Shop		\$5,089.00	\$5,868.00	\$0.00	\$779.00
3.10	Carpenter		\$144.00	\$93.00	\$51.00	\$0.00
3.11	Paint Shop		\$146.00	\$61.00	\$85.00	\$0.00
3.12	Bolt Room		\$0.00	\$171.00	\$0.00	\$171.00
3.13	Miscellaneous #13 and #20		\$0.00	\$660.00	\$0.00	\$660.00
3.14	Total Labor Cost:		\$11,886.00	\$16,468.00	\$0.00	\$4,591.00

Group 04 - Shay #6 Locomotive - Summary of Costs						
Item	Item Description		Estimated Cost	Actual Cost	Excess in Estimate	Excess in Actual
4.01	Material		\$27,943.00	\$27,083.00	\$860.00	\$0.00
4.02	Labor		\$11,877.00	\$16,468.00	\$0.00	\$4,591.00
4.03	Burden - Factory		\$22,153.00	\$31,927.00	\$0.00	\$9,774.00
4.04	Burden - Admin. and General (50%)		\$5,939.00	\$8,234.00	\$0.00	\$2,295.00
4.05	Total Burden		\$28,092.00	\$40,161.00	\$0.00	\$12,069.00
4.06	Other Direct Charges					
4.07	Development (Absorbed)		\$9,972.00	\$20,734.00	\$0.00	\$10,762.00
4.08	Royalties		\$0.00	\$0.00	\$0.00	\$0.00
4.09	Packing		\$50.00	\$94.00	\$0.00	\$44.00
4.10	Freight		\$0.00	\$0.00	\$0.00	\$0.00
4.11	Messenger		\$300.00	\$300.00	\$0.00	\$0.00
4.12	Miscellaneous		\$0.00	\$206.00	\$0.00	\$206.00
4.13	Total Other Direct Charges		\$10,322.00	\$21,334.00	\$0.00	\$11,012.00
4.14	Total Cost		\$78,234.00	\$105,046.00	\$0.00	\$26,812.00
4.15	Selling Price					
4.16	Margin Gross					
4.17	Less Commission					
4.18	Margin Net					
4.19	Memoranda					
4.20	Development - Std.					
4.21	Drawings					
4.22	Patterns					
4.23	Dies and Jigs					
4.24	Total (Not Including Above)					
4.25	Burden - Factory		137%	194%	0%	7%
4.26	Burden - Admin. and General		50%	50%	0%	0%
4.27	Total Burden		237%	244%	0%	7%





Group - 10: Ash Pan and Oil Pan				
Item	Drawing Title	Quantity	Drawing Number	Construction Notes
10.01	Ash Pan	1	107-A-5000	Material Plate and Bars, Riveted Hoppers, Furnish Pan Complete
10.02	Ash Pan Material Bill	1 Set	10-MO-5052	Material Ordered in P.D.
10.03	Ash Pan Hopper	2	A-11911	Furnish Stop Bolt, Cast Steel, Pattern 10-148
10.04	Ash Pan Slide Door	2	A-11911	Cast Steel, Pattern 10-147
10.05	Ash Pan Cinder Pocket	2	107-A-5000	
10.06	Ash Pan Side Draft Plate	1-L, 1-R	107-A-5000	
10.07	Ash Pan Door Links	1	107-A-5000	Bar Steel, Forging Sketch 10-A-5014
10.08	Ash Pan Support	8	102-A-5014	Plate, Forging Sketch 102-A-5014
10.09	Ash Pan Operator Link	1	102-A-5016	Forging Sketch 102-A-5016
10.10	Ash Pan Operator Link Lever	1	102-A-5013	Forging Sketch 102-A-5013
10.11	Ash Pan Operator Shaft	1	102-A-5018	Cold Rolled Steel
10.12	Ash Pan Operator Lever	1	102-A-5015	Forging Sketch 102-A-5015
10.13	Ash Pan Operator Lever Lock Bracket	1	102-A-5011	Furnish and Weld in Gusset Plates, Forging Sketch 102-A-5011
10.14	Ash Pan Operator Lever Lock Pin	1	522-U-428	Steel, Attach Chain to Pin, Forging Sketch 522-U-428
10.15	Ash Pan Lock Pin Chain	1 Set	107-A-5000	
10.16	Ash Pan Slide Rigging Pin	3	102-F-384	Steel
10.17	Ash Pan Slide Rigging Pin	1	102-H-384	Steel
10.18	Ash Pan Shaft Bearing - Outisde	1	102-A-5010	Forging Sketch 102-A-5010
10.19	Ash Pan Shaft Bearing - Inside	1	102-A-5012	Angle, Weld in Lugs for Bearings

Group - 11: Axles				
Item	Drawing Title	Quantity	Drawing Number	Construction Notes
11.01	Axle	6	112-A-5054	Forging Sketch 112-A-5054

<b>Group - 12: Bell and Ringer</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
12.01	Bell Ordering Print	1	M-25179	H.S. Bell, Iron, H.S. Pat. #2, H&G Part M-25179
12.02	Bell Arrangement	1 Set	123-A-5002	Furnish Taper Pins, Nuts and Cotters
12.03	Bell Frame	1	122-A-5032	Cast Steel, Pattern 12-320
12.04	Bell Frame Machining Drawing	1	122-A-5031	
12.05	Bell Yoke	1	122-A-5034	Cast Iron, Pattern 12-234
12.06	Bell Yoke Trunnion	1	122-A-5033	Cold Rolled Steel
12.07	Bell Yoke Trunnion	1	122-B-5033	Cold Rolled Steel
12.08	Bell Yoke Washer	1	123-A-5002	15/16" I.D. x 2 1/2" O.D. x 3/8" Thick Finished Size, Steel
12.09	Bell Tongue	1	122-A-5006	Cast Steel, Pattern 12-35
12.10	Bell Tongue Fulcrum	1	122-C-5007	Bar Steel
12.11	Bell Ringer King Type	1	BR-105-F	U.S.M.P. Company Part BR-105-F

<b>Group - 13: Boiler</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
13.01	Boiler Plan Sections	1	130-A-5003	Shop Number 3354 Only
13.02	Boiler Plan Sections	1	130-B-5002	For Future Orders
13.03	Boiler Material Bill	1 Set	12-MO-5098-D	
13.04	Boiler Bracing List	1 Set	130-A-5002	
13.05	Boiler Material List	1 Set	13-MO-5099-C	Flexible Staybolts
13.06	Boiler Rivet Material	1 Set	13-MO-5100-A	
13.07	Boiler Dome Line & 2nd Course Seam	1	133-A-5007	
13.08	Boiler Test Pressure - Water			250 P.S.I.
13.09	Boiler Test Pressure - Steam			225 P.S.I.
13.10	Boiler Test Pressure - Working			200 P.S.I.

<b>Group - 14: Boiler Details and Attachments - Tubes and Flues</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
14.01	Boiler Brace Rod Ends	6	310-D-153	Forging Sketch 310-S-82
14.02	Boiler Brace Rod Ends	26	11762	Set 2, Forging Sketch 117-F-202
14.03	Boiler Brace Rod Ends	10	310-D-208	Forging Sketch 310-S-150
14.04	Boiler Brace Rod Lugs	8	142-A-5001	Forging Sketch 14-A-5001
14.05	Boiler Brace Rod Lugs	2	310-D-421	Forging Sketch 310-S-29
14.06	Boiler Brace Rod Lugs	2	310-D-149	Forging Sketch 310-S-72
14.07	Boiler Brace Rod Jaws	26	310-D-164	Furnish Bolts, Forging Sketch 310-S-105
14.08	Boiler Brace Rod Jaws	4	310-D-160	Furnish Bolts, Forging Sketch 310-S-65
14.09	Boiler Brace Rod Jaws	8	142-A-5001	Furnish Bolts, Forging Sketch 310-S-276
14.10	Boiler Brace Rod Jaws	2	310-D-421	Furnish Bolts, Forging Sketch 310-S-266
14.11	Boiler Brace Rod Jaws	2	310-D-149	Furnish Bolts, Forging Sketch 310-S-66
14.12	Boiler Throat Brace	8	11766	Forging Sketch 11766, Line 2
14.13	Boiler Throat Brace Stay	16	11766	Staybolt Iron, Line 2
14.14	Boiler Stay Bolt Location	1 Set	132-A-5004	
14.15	Boiler Stay Bolt Schedule	1 Set	132-A-5005	
14.16	Boiler Tee Bar	1 Set	130-B-5002	
14.17	Boiler Mud Ring	1	144-A-5000	
14.18	Boiler Tube Sheet Ring	1	142-B-5016	Cast Steel, Pattern 14-4
14.19	Boiler Tube Sheet Studs	8	142-B-5016	Steel
14.20	Boiler Smoke Box Ring	1	130-B-5002	Forging Sketch 14-E-5000
14.21	Boiler Tube (Small)	156		2" O.D.
14.22	Boiler Flue (Large)	28	142-M-9	
14.23	Boiler Tube Setting	1 Set	11632	Style #4
14.24	Boiler Test Plate	1	142-A-494	Stamp Per Specification, Cast Brass, Pattern 14-923

<b>Group - 15: Bolts, Nuts, Studs, Pins, Bushings</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>

<b>Group - 18: Brackets, Air and Steam Gauge Brackets, Cylinder Bottom Brackets</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
18.01	Air Gauge Panel Support	1	182-B-5120	Bar Steel, Forging Sketch 182-B-5120, Furnish & Weld Gussets
18.02	Air Gauge Bracket Panel	1	182-A-5120	Plate, Weld on Lug
18.03	Steam Gauge Bracket	1	182-A-5117	Plate, Forging Sketch 182-A-5117
18.04	Bottom Bracket	1	187-A-5017	Cast Steel, Pattern 18-527
18.05	Bottom Bracket Caps	4	182-A-5031	Cast Steel, Pattern 18-57
18.06	Bottom Bracket Bearing - Top	4	182-B-5044	Cast Bronze, Pattern 18-328
18.07	Bottom Bracket Bearing - Bottom	4	182-B-5064	Cast Bronze, Pattern 18-330
18.08	Bottom Bracket Bearing - Wedge	4	182-A-5012	Cast Iron, Pattern 18-45
18.09	Bottom Bracket Wedge Screw	4	182-E-5022	Forging Sketch 87-F-14
18.10	Bottom Bracket Wedge Screw Nut	4	182-E-5022	Steel, 1 1/4" Square x 1 3/4" Long Finished Size
18.11	Bottom Bracket Wedge Screw Cap	4	182-B-5075	Steel
18.12	Bottom Bracket Filler Block	4	182-A-426	Steel, Forging Sketch 182-A-426, R.B. Brackets, R.S. Firebox
18.13	Lubricator Bracket Plate	1	182-A-5119	Plate, Furnish and Apply Studs
18.14	Lubricator Bracket	1	183-A-5030	Plate
18.15	Lubricator	1	183-B-5030	Plate
18.16	Lubricator Bracket Rod Guide	1	182-A-5118	Furnish Complete, Forging Sketch 182-A-5118

<b>Group - 20: Brake Equipment, Foundation, Engine and Tender</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
20.01	Air Pump Support - Front	1	203-A-5024	Forging Sketch 20-A-5140, Weld Brace on Material
20.02	Air Pump Support - Back	1	203-A-5024	Forging Sketch 20-A-5140, Weld Brace on Material
20.03	Air Pump Support Brace	2	203-A-5024	Forging Sketch 20-A-5141, Weld Brace on Material
20.04	Brake Cylinder Push Rod	3	842-A-36	Forging Sketch 842-A-36
20.05	Brake Pins	3	202-B-5312	
20.06	Brake Pins	3	202-C-5312	
20.07	Brake Pins	4	202-D-5312	
20.08	Brake Pins	1	202-P-5312	
20.09	Brake Pins	3	202-M-5312	
20.10	Brake Pins	6	202-J-5312	
20.11	Brake Pins	6	202-E-5312	
20.12	Brake Pins	6	202-K-5312	

Group - 20: Brake Equipment, Foundation, Engine and Tender (Continued)				
Item	Drawing Title	Quantity	Drawing Number	Construction Notes
20.13	Brake Pins	6	202-L-5312	
20.14	Brake Pins	6	202-H-5312	
20.15	Brake Pins	6	202-F-5312	
20.16	Brake Pins	24	202-N-5312	
20.17	Brake Reservoir Support	2	203-A-5023	Plate
20.18	Brake Reservoir Support Plate	1	203-A-5023	Bar Steel
20.19	Brake Reservoir Support U-Bolt	2	203-A-5023	Forging Sketch 20-A-5139
20.20	Brake Reservoir Support Strap	2	203-A-5023	Forging Sketch 20-A-5138
20.21	Brake Reservoir Support Plate	1	203-B-5023	Bar Steel
20.22	Brake Equipment Material Order	1 Set	20-MO-5036-B	
20.23	Brake Valve Bracket	1	202-A-5316	Forging Sketch 202-A-5316, Welded Construction
20.24	Brake Valve Pump Drip Pan	1	192-F-504	
20.25	Brake Valve Pump Drip Pan Brackets	2	192-A-504	Forging Sketch 192-A-504
20.26	Brake Valve Pump Drip Pan Brackets	2	192-B-504	Forging Sketch 192-B-504
20.27	Brake Valve Pump Drip Pan Fitting	1	192-C-504	Bar Steel
20.28	Brake Governor Support	1	202-A-5309	Forging Sketch 202-A-5309, Furnish Gussets
20.29	Brake Strainer Support	1	202-B-5309	Forging Sketch 202-B-5309
20.30	Brake Equipment Res. Support	2	192-N-350	Forging Sketch 192-N-350
20.31	Brake Equipment Res. Support Blocks	2	192-B-305	Tee Iron
20.32	Brake Distributing Valve Bracket	1	202-A-5310	Plate, Forging Sketch 202-A-5310
20.33	Brake Lever- Frame Tender	1	202-A-5308	Plate
20.34	Brake Lever- Frame Front	1	202-A-5305	Plate
20.35	Brake Lever- Frame Back	1	202-A-5306	Plate
20.36	Brake Lever Fulcrum - Frame Tender	1	202-A-5313	Bar Steel, Forging Sketch 202-A-5313, with Gussets
20.37	Brake Lever Fulcrum - Frame Front	1	202-A-5314	Forging Sketch 202-A-5314, Furnish Complete with Gussets
20.38	Brake Lever Fulcrum - Frame Back	1	202-A-5296	Forging Sketch 202-A-5296, Furnish Complete with Gussets
20.39	Brake Lever Guides - Frame Links	4	202-A-5304	Forging Sketch 202-A-5304
20.40	Brake Lever Guides - Frame	1	202-A-5319	Forging Sketch 202-A-5319
20.41	Brake Lever Guides - Frame	1	202-B-5319	Forging Sketch 202-B-5319
20.42	Brake Lever Guides - Frame	1	202-C-5319	Forging Sketch 202-C-5319
20.43	Brake Lever Guides - Frame	1	202-D-5319	Forging Sketch 202-D-5319
20.44	Brake Lever Support	1	202-A-5318	Angle, Forging Sketch 202-A-5318
20.45	Brake Cylinder Bracket - Frame Front	1	202-A-5317	Note: 10-30-45, Reinforced 5/8" x 12" x 63" Steel Plate Welded

Group - 20: Brake Equipment, Foundation, Engine and Tender (Continued)				
Item	Drawing Title	Quantity	Drawing Number	Construction Notes
20.46	Brake Cylinder Bracket - Frame Back	1	202-A-5297	Note: 10-30-45, Reinforced 5/8" x 12" x 63" Steel Plate Welded
20.47	Brake Rods - Frame Front	1	202-B-5304	Forging Sketch 202-B-5304
20.48	Brake Rods - Frame Back	1	202-C-5304	Forging Sketch 202-C-5304
20.49	Brake Rods - Frame Tender	1	202-D-5304	Forging Sketch 202-D-5304
20.50	Brake Head Links Truck	8	939-A-5002	Forging Sketch 20-R-5027
20.51	Brake Head Links Truck	16	939-A-5002	Forging Sketch 20-S-5027
20.52	Brake Cylinder Support - Tender	1	202-A-5298	Plate, Forging Sketch 202-A-5298, Furn. Studs, Gussets & Lugs
20.53	Brake Beam - Truck	2	202-A-5311	I-Beam, Front of Front Truck, Rear of Tender Truck
20.54	Brake Beam Fulcrum Truck	6	202-A-5299	Cast Steel, Pattern 20-86-A
20.55	Brake Beam Safety Chain Truck	4	939-A-5002	Forging Sketch 20-T-5059, Furnish Complete
20.56	Brake Beam Safety Chain Truck	8	939-A-5002	Forging Sketch 20-S-5059, Furnish Complete
20.57	Brake Hanger Lug Truck	1	202-B-5072	L.S. Front on Center Truck, Cast Steel, Pattern 20-632
20.58	Brake Hanger Lug Truck	7	202-A-5072	Cast Steel, Pattern 20-632
20.59	Brake Heads Truck	12	203-F-5008	Cast Steel, Pattern 20-603-A
20.60	Brake Shoes Truck	12	202-A-5227	Cast Iron, Pattern 20-438
20.61	Brake Keys Truck	12		Standard A.A.R.
20.62	Brake Lever Truck	6	202-B-5301	Forging Sketch 202-B-5301
20.63	Brake Lever Links Truck	6	202-A-5301	Forging Sketch 202-A-5301
20.64	Brake Hanger Lug Truck	4	202-A-5303	Forging Sketch 202-A-5303
20.65	Brake Hanger Lug Truck	2	202-B-5303	Forging Sketch 202-B-5303
20.66	Brake Links Truck	12	202-A-5302	Forging Sketch 202-A-5302
20.67	Brake Rod Truck	3	202-A-5300	Forging Sketch 202-A-5300
20.68	Brake Rod Adjustable Truck	3 Sets	202-A-5307	Turn Buckle
20.69	Brake Rod Adjustable Spud Truck	3	202-A-5307	Forging Sketch 202-A-5307
20.70	Brake Rod Adjustable Clevis Truck	3	202-A-5307	Forging Sketch 202-A-5307
20.71	Truck Brake Hanger	6	202-B-5302	Forging Sketch 202-B-5302
20.72	Truck Brake Beam - I Beam	4	202-B-5311	Rear of Front, Front & Back of Center, Front of Tender Trucks

<b>Group - 21: Bumpers and Details</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
21.01	Push Pole Pocket - Front Right Side	1	212-A-5002	Cast Iron, Pattern 21-7
21.02	Push Pole Pocket - Front Left Side	1	212-B-5002	Cast Iron, Pattern 21-7
21.03	Push Pole Pocket - Rear	2	212-A-5002	Cast Iron, Pattern 21-7
21.04	End Timber Arrangement - Front	1 Set	214-A-5037	Wood - On Engine
21.05	End Timber Arrangement - Rear	1 Set	214-A-5038	Wood - On Tender
21.06	End Timber Channels - Front	1	214-A-5037	Channel
21.07	End Timber Channels - Rear	1		See Tender Frame
21.08	End Timber Back Plate - Front	1	213-A-5081	Plate
21.09	End Timber Angle - Front	1	214-A-5037	Angle, 4" x 4" x 1/4"

<b>Group - 22: Cabs</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
22.01	Cab	1	227-A-5003	Plate & Angles, Wood Lined, Furnish Doors, Windows, etc.
22.02	Cab Material Bill	1 Set	22-MO-5032-A	Plate & Angles, Wood Lined, Furnish Doors, Windows, etc.

<b>Group - 23: Cab Details, Apron, Brackets, Door Fixtures, Ventilator</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
23.01	Cab Arm Rest	2	232-A-5032	Wood Upholstered
23.02	Cab Inspection Card Frame	1	Prime #960	Mount on Roof Lining Left Side
23.03	Cab Saddle Angle	1	227-A-5003	Angle, Forging Sketch 23-A-5023
23.04	Cab Deck Arrangement Left Side Seat	1 Set	232-A-5048	
23.05	Cab Deck Plate Left Side Seat	1	233-A-5002	Plate
23.06	Cab Storm Window Right Side	1	232-H-5012	Wood - Glass and Rubber Gasket
23.07	Cab Storm Window Hinges	1 Pair	232-H-5012	1 1/2" x 1 1/2" Butt Hinges
23.08	Cab Storm Window Adjusting Bar	1	232-A-5010	Steel, Forging Sketch 232-A-5010

<b>Group - 23: Cab Details, Apron, Brackets, Door Fixtures, Ventilator (Continued)</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
23.09	Cab Curtain - Back	1 Set	233-A-5001	Complete Less Wood, Lima to Furnish Wood Work
23.10	Cab Curtain Eye Bolt	4	233-A-5001	Forging Sketch 23-H-161
23.11	Cab Door Fixture Clamp	2	232-A-5019	Cast Iron, Pattern 23-3
23.12	Cab Door Fixture Clamp Screw	2	232-A-5018	Forging Sketch 232-A-5018
23.13	Cab Door Fixture Clamp Slide Bar	2	232-A-5023	Forging Sketch 232-A-5023
23.14	Cab Door Fixture Rod	2	232-A-5020	Forging Sketch 232-A-5020
23.15	Cab Ventilator & Angle Frame	1	232-A-5028	#10 Plate and Angle
23.16	Cab Ventilator Fixture Lift	1	11145	Steel, Forging Sketch 111-F-30
23.17	Cab Ventilator Fixture Lift Pin	1		1/2" Diameter x 1 3/8" Steel Rivet - Drill for 1/8" Cotter to Suit
23.18	Cab Ventilator Fixture Hinge	1	11145	Forging Sketch 111-F-31
23.19	Cab Ventilator Fixture Latch Stud	1	232-A-5028	Steel, Furnish Nuts
23.20	Cab Ventilator Hinges	1 Pair		8" Strap, Bend to Suit
23.21	Cab Seat - Right Box	1	232-A-5134 **	Wood. ** Note: Part Number Could Be 232-A-5034
23.22	Cab Seat - Left Box	1	232-A-5034 **	Wood. ** Note: Part Number Could Be 232-A-5134
23.23	Cab Seat Deck End Plate Front - Left	1	233-B-5002	Plate
23.24	Cab Seat Deck End Plate Back - Left	1	233-F-5002	Plate, Furnish Angle and Weld On
23.25	Cab Seat Side Plate - Left Seat	1	233-E-5002	Plate
23.26	Cab Seat Side Plate - Left Seat	1	233-D-5002	Plate
23.27	Cab Seat Side Plate - Right Seat	1	233-C-5002	Plate
23.28	Cab Seat Cushion - Right and Left	2	232-A-5034	Complete From Goshen
23.29	Cab Seat Back Rest - Right and Left	2	232-A-5034	Complete From Goshen
23.30	Cab Seat Back Rest Brace - R & L	2	232-A-5034	Spring Steel

<b>Group - 26: Cocks, Valves, Cylinder and Blow-Off Cocks, Globe Valves</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
26.01	Air Sander Valve	1	PT-106-B	U.S.M.P. Company, Leach No. 29
26.02	Air Pump Steam Valve (Turret)	1	Crane #1875-E	1 1/4" Angle, Stem for Hancock #2 Universal Joint, Loose Handle
26.03	Bell Ringer Valve	1	BR 97-B	U.S. M. Pkg Company, King #14
26.04	Bell Ringer Line Valve	1	Crane #376-E	1/4" Globe
26.05	Blower Valve (Turret)	1	Crane 1875-E	1" Angle, Stem for Hancock #1 Universal Joint, Loose Handle



Group - 26: Cocks, Valves, Cylinder and Blow-Off Cocks, Globe Valves (Continued)				
Item	Drawing Title	Quantity	Drawing Number	Construction Notes
26.06	Blow Off Cock	1	Okadee 1636-A	2" Type F.S.D.
26.07	Blow Off Joint Ring	1	792-S-88	Brass Casting, Pattern 26-208
26.08	Injector Steam Valve (Turret)	2	Crane #1875-E	2" Angle, Stem for Hancock #2 Universal Joint, Loose Handle
26.09	Drain Valve Top	3	202-A-5140	Stick Brass, Drop Pipe & Sup. Damper Cylinder Lines
26.10	Drain Valve Base	3	202-A-5140	Stick Brass, Drop Pipe & Sup. Damper Cylinder Lines
26.11	Drain Valve Spring	3	202-A-5140	Drop Pipe & Sup. Damper Cylinder Lines
26.12	Drain Valve	3	202-A-5140	Brass Casting, Pattern 20-71
26.13	Cylinder Cock Spring Washer	6	263-A-5004	Stick Brass
26.14	Valve Extension Rod for Turret	1 Set		Steel Rod, To Suit Erector Shop
26.15	Cylinder Cock Body	6	263-A-5004	Valve Brass Casting, Pattern 26-584
26.16	Cylinder Cock Nut	6	263-A-5004	Stick Brass, Use Nuts Now Made
26.17	Cylinder Cock Washer	6	263-A-5004	Stick Brass, Re-Work Washer Now Made
26.18	Cylinder Cock Valve	6	263-A-5004	Valve Brass Casting, Pattern 26-585
26.19	Cylinder Cock Spring	6	263-A-5004	Spring Steel Wire
26.20	Cylinder Cock Elbow	6	262-A-5010	Brass Casting, Pattern 26-581
26.21	Drain Valve Water Gauge	2	Crane #376-E	1/2" Crane-Globe, Fixed Handle
26.22	Drifting Valve	1	Crane #376-E	3/4" Crane-Globe, Fixed Handle
26.23	Drip Cock - Blower	1	Crane #700	1/4" Globe, Drip Cock
26.24	Generator Valve Dynamo (Turret)	1	Crane #1875-E	1/2" Angle, Stem for #0 Hancock Universal Joint, Loose Handle
26.25	Dynamo Line Shut Off Valve	1	Crane #376-E	1/2" Globe
26.26	Fire Door Valve - Line	1	Crane #516	1/4" Hancock #516
26.27	Lubricator Valve (Turret)	1	Crane #1875-E	1" Angle, Copper Pipe Outlet, Stem for #1 Hancock Univ'l Joint
26.28	Universal Joint	2	Hancock #0	Water Gauge Top Cocks
26.29	Universal Joint	1	Hancock #3	Turret Master Valve
26.30	Universal Joint	2	Hancock #2	Injector Steam Valve
26.31	Universal Joint	1	Hancock #2	Air Pump Steam
26.32	Universal Joint	1	Hancock #1	Blower valve
26.33	Universal Joint	1	Hancock #1	Lubricator St. Line
26.34	Universal Joint	1	Hancock #0	Dynamo
26.35	Power Reverse Cut Out Cock	1	West 99081	
26.36	Injector Del. Drain Valves	2	Globe #516	1/4" Globe Hancock
26.37	Sprinkler Valve	1	Globe #700-S	Ohio 1/2"
26.38	Sander Valve (Line)	1	Globe #516	Hancock 1/4"

<b>Group - 26: Cocks, Valves, Cylinder and Blow-Off Cocks, Globe Valves (Continued)</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
26.39	Steam Gauge Cock	1	937	Prime SC. 937, Style #4
26.40	Test Gauge Cock	1	937	Prime SC. 937, Style #2
26.41	Turret Elbow (Steam Injector Valve)	2	262-L-141	In Turret, Steel Casting, Pattern 26-565
26.42	Turret Elbow (Dynamo)	1	262-A-141	In Turret, Steel Casting, Pattern 26-280
26.43	Turret Elbow (Lubricator)	1	262-M-141	In Turret, Steel Casting, Pattern 26-566

<b>Group - 27: Cocks, Valves, Gauge, Water and Special</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
27.01	Gauge Cock	3	4693	Nathan Drawing, Line 1
27.02	Gauge Cock Boss	1	272-A-5023	1020 Steel
27.03	Gauge Cock	2	4693	Nathan Drawing, Line 2
27.04	Water Gauge Arrangement - Left Side	1 Set	274-A-5000	Furnish Pipe Nipple in Bottom Cock
27.05	Gauge Cock Dripper	1	272-A-385	Alco 272-S-11331, Cast Iron, Pattern 423 LLW
27.06	Water Gauge Arrangement - Left Side	1 Set	274-B-5000	Furnish Pipe Nipple in Bottom Cock
27.07	Water Gauge - Left Side	1		Hanlon Bolls, Eye Reflex No. 7
27.08	Water Gauge - Left Side	1		Hanlon Bolls, Eye Reflex No. 6
27.09	Water Gauge Upper Fitting	2	272-L-257	Brass Casting, Pattern 27-504
27.10	Water Gauge Upper Fitting Cap	2	273-J-79	Stick Brass
27.11	Water Gauge Upper/Lower Bonnet	4	272-D-258	Stick Brass
27.12	Water Gauge Upper Stem	2	272-D-5020	Stick Brass
27.13	Water Gauge Upper/Lower Gland	4	272-A-258	Stick Brass
27.14	Water Gauge Upper/Lower Nut	4	273-L-79	Stick Brass
27.15	Water Gauge Upper/Lower Washer	4	272-B-258	Stick Brass
27.16	Water Gauge Lower Fitting	2	272-D-257	Brass Casting, Pattern 27-507
27.17	Water Gauge Lower Fitting Cap	2	273-K-79	Stick Brass
27.18	Water Gauge Lower Fitting Nipple	2	272-C-5020	Stick Brass
27.19	Water Gauge Lower Fitting Stem	2	272-H-258	Stick Brass
27.20	Water Gauge Lower Fitting Adapter	2	272-A-5020	Stick Brass
27.21	Water Gauge Lower Fitting Nut	2	272-B-5020	Stick Brass

<b>Group - 27: Cocks, Valves, Gauge, Water and Special (Continued)</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
27.22	Water Gauge Upper/Lower Fitting Plugs	8	272-C-258	Stick Brass
27.23	Water Gauge Upper Fitting Adapter	2	273-H-79	Stick Brass
27.24	Water Gauge Upper Fitting Swivel	4	273-A-79	Brazing Metal
27.25	Water Gauge Upper Fitting Nut	4	273-B-79	Stick Brass
27.26	Water Gauge Upper Fitting Adapter	2	272-M-260	Stick Brass
27.27	Water Gauge Boss	2	272-D-162	1020 Steel
27.28	Water Gauge Marker	1	273-B-5006	White Metal Casting, Pattern 27-556
27.29	Water Gauge Marker Bracket	1	273-A-5006	Steel Bar, Forging Sketch 273-A-5006
27.30	Water Gauge Marker Handles	4	262-A-93	"A" Dimension 2 1/16" Diameter
27.31	Valve Extension Handle Plate Guide	1	272-A-5021	Bar Steel
27.32	Valve Extension Handle Plate Lug	1	272-A-5021	Bar Steel, Forging Sketch 272-A-5021
27.33	Valve Extension Handle Plate Bracket	2	272-A-5022	Bar Steel, Forging Sketch 272-A-5022

<b>Group - 28: Cock Rigging</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
28.01	Blow-Off Cock Rigging	1 Set	283-A-5005	
28.02	Blow-Off Cock Handle	1	282-C-368	Forging Sketch 282-C-368
28.03	Blow-Off Cock Rod Pin	1	282-D-139	Furnish Cotter
28.04	Cylinder Cock Rod Lever Guide	1	282-A-5038	Forging Sketch 282-A-5038, Furnish Complete
28.05	Cylinder Cock Lever Link	1	282-C-5038	Cold Rolled Steel, Forging Sketch 282-C-5037
28.06	Cylinder Cock Lever Connection	3	282-B-5037	Cold Rolled Steel, Forging Sketch 282-B-5037
28.07	Cylinder Cock Lever Connection	3	282-A-5037	Cold Rolled Steel, Forging Sketch 282-A-5037
28.08	Cylinder Cock Rigging Pin	1	282-C-5036	1020 Steel
28.09	Cylinder Cock Rigging Pin	13	282-A-5036	1020 Steel
28.10	Cylinder Cock Rigging Pin	1	282-B-5036	1020 Steel
28.11	Cylinder Cock Rigging Knuckle Pin	1	522-Y-428	Forging Sketch 522-Y-428, Furnish Complete
28.12	Cylinder Cock Rigging	1 Set	288-A-5000	Apply Chain for Lock Pin
28.13	Cylinder Cock Shaft	1	288-A-5000	Cold Rolled Steel
28.14	Cylinder Cock Hand Lever	1	282-B-5011	Steel, Forging Sketch 282-B-5011

<b>Group - 28: Cock Rigging (Continued)</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
28.15	Cylinder Cock Hand Lever Fulcrum	1	282-A-5040	Welded Construction, Forging Sketch 282-A-5040
28.16	Cylinder Cock Shaft Lugs	3	282-D-5038	Welded to Cyl. Frame and Drilled, Forging Sketch 282-D-5038
28.17	Cylinder Cock Shaft Lever	1	282-B-5039	Apply Set Screw, Brass Casting, Pattern 28-1
28.18	Cylinder Cock Shaft	3	282-A-5039	Apply Set Screw, Brass Casting, Pattern 28-124
28.19	Cylinder Cock Shaft Bracket	1	282-B-5038	Plate, Forging Sketch 282-B-5038
28.20	Cylinder Cock Shaft Collar	1	282-C-5038	Cold Rolled Steel, Apply Set Screw

<b>Group - 29: Crank Pins and Detail</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>

<b>Group - 30: Crossheads, Arm, Pin, Key and Shoes</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
30.01	Crosshead	3	303-B-5003	Cast Steel, Pattern 30-191
30.02	Crosshead Shoe	6	302-A-5007	Cast Brass, Pattern 30-192
30.03	Crosshead Shoe Bolts	24	303-B-5003	Furnish Nuts
30.04	Crosshead Pin	3	303-B-5003	4 1/8" Diameter x 10" Long Finished Size
30.05	Crosshead Key	3	302-A-5014	Chrome Vanadium, Forging Sketch 302-A-5014
30.06	Crosshead Pin Nuts	6	303-B-5003	4 1/4" Hex Across Flats x 3/4" Thick, Medium Carbon Steel

<b>Group - 31: Cylinders and Barrel Bushings</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
31.01	Cylinder - 1 Left, 2 Right	3	317-A-5009	Cast Iron, Pattern 31-315
31.02	Cylinder Clearance	1 Set	314-A-5031	Weld Cylinder Cock Shaft Lug On
31.03	Cylinder Frame	1	314-A-5030	Weld Cylinder Cock Shaft Lug On, Cast Steel, Pattern 31-314
31.04	Cylinder Frame	2	314-B-5030	Weld Cylinder Cock Shaft Lug On, Cast Steel, Pattern 31-314

<b>Group - 32: Cylinder and Steam Chest Heads and Covers</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
32.01	Cylinder Head	3	323-B-5000	Cast Iron, Pattern 32-225
32.02	Cylinder Head Casing	3	323-B-5000	Plate
32.03	Steam Chest Cover - Top	3	322-A-5084	Cast Iron, Pattern 32-745
32.04	Valve Chamber Head - Bottom	3	322-A-5086	Cast Iron, Pattern 32-747
32.05	Valve Chamber Bushing	6	322-A-5085	Cast Iron, Pattern 32-746

<b>Group - 34: Cylinder By-Pass, Relief, Vacuum and Drifting Valves</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>

<b>Group - 35: Die Work, Flanging Dies</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>

<b>Group - 36: Dome, Cap, Casing and Ring</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
36.01	Dome	1	130-B-5002	
36.02	Dome Flange	1	362-H-5001	
36.03	Dome Flange Radius			40 inches
36.04	Dome Cap	1	362-C-5011	
36.05	Dome Ring	1	362-A-5010	
36.06	Dome Casing - Complete	1	363-B-5012	Furnish Cover Plates, etc.
36.07	Dome Casing - Stud	1		Steel, To Suit

<b>Group - 37: Draw Gear, Engine, Coupler, Uncoupling Rigging, Draw Bars, Safety Chains</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
37.01	Uncoupling Shaft Bracket - Rear	1	214-A-5038	Forging Sketch 37-A-5008
37.02	Uncoupling Shaft Bracket - Front	1	214-A-5037	Forging Sketch 37-A-5008
37.03	Draft Gear	2 Sets	Miner 18009	Forging Sketch Miner-A-22-XB
37.04	Coupler - Front Engine	1	24532-J	N.M.& SC Co. 24532-J, AAR. Std. Type "E", 6" x 8" Shank
37.05	Coupler - Back Trender	1	24532-J	N.M.& SC Co. 24532-J, AAR. Std. Type "E", 6" x 8" Shank
37.06	Coupler Lock Lifter - Front/Rear	2 Sets	12318	N.M.C. 12318-E, SET-A-1470
37.07	Uncoupling Shaft Washers - Front/Rear	4	214-A-5037	Steel, Weld on Shaft
37.08	Uncoupling Shaft - Front	1	372-A-5090	Forging Sketch 372-A-5098
37.09	Uncoupling Shaft - Rear	1	372-A-5098	Forging Sketch 372-A-5098
37.10	Uncoupling Shaft Bracket - Rear	1	214-A-5038	Forging Sketch 37-A-5007
37.11	Uncoupling Shaft Bracket - Rear	1	214-A-5038	Forging Sketch 37-B-5007
37.12	Uncoupling Shaft Bracket - Front	1	214-A-5037	Forging Sketch 37-A-5007
37.13	Uncoupling Shaft Bracket - Front	1	214-A-5037	Forging Sketch 37-B-5007
37.14	Drawhead Carrier	2	373-A-5026	Cast Steel, Pattern 37-355-A (Sent 1 12/5/46 R. 17424)
37.15	Drawhead Carrier - Front	1	214-A-5037	Forging Sketch 104-F-66
37.16	Drawhead Carrier - Rear	1	214-A-5038	Forging Sketch 104-F-66
37.17	Drawhead Carrier Block - Follower	2	214-A-5037	Plate, 2 1/4" x 9" x 12 1/2"
37.18	Drawhead Carrier Shims - Coupler Yoke	2	214-A-5037	Bar, 1" x 5" x 9"
37.19	Drawhead Carrier Frame - F. Complete	1	373-A-5025	Welded Construction

<b>Group - 37: Draw Gear, Engine, Coupler, Uncoupling Rigging, Draw Bars, Safety Chains (Continued)</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
37.20	Drawhead Carrier Frame - F. Tie Plate	1	373-A-5025	Detail "X"
37.21	Drawhead Carrier Tie Plate - Rear	1	214-A-5038	Plate
37.22	Drawhead Carrier Tie Plate Ang. - Rear	2	214-A-5038	Angles, Weld to Tender Frame
37.23	Drawhead Carrier Yoke - Front	1	214-A-5037	Forging Sketch 460-S-120
37.24	Drawhead Carrier Yoke - Rear	1	214-A-5038	Forging Sketch 460-S-120
37.25	Drawhead Bar Guide - Engine	1	372-B-5097	Cast Steel, Pattern 37-302
37.26	Drawhead Bar Guide - Tender	1	372-A-5097	Cast Steel, Pattern 37-302
37.27	Drawhead Bar Pin - Rear of Coal Bunk	1	372-B-5070	Steel, Forging Sketch 372-B-5070
37.28	Drawhead Pin - Front and Rear	2	372-L-147	Forging Sketch 372-L-147
37.29	Safety Link	1	372-A-5082	Steel, Forging Sketch 372-A-5082
37.30	Safety Link Pins - Front Water Tank	1	372-A-5083	Steel, Forging Sketch 372-A-5083
37.31	Safety Link Pins Keys	1	372-A-5083	Bar Steel

<b>Group - 39: Eccentrics, Cranks, Straps and Rods</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
39.01	Eccentric - No. 1 Cylinder	1	392-A-5109	Cast Iron, Pattern 39-527
39.02	Eccentric - No. 3 Cylinder	1	392-A-5109	Cast Iron, Pattern 39-527
39.03	Eccentric - No. 2 Cylinder - Top	1	392-A-5108	Cast Iron, Pattern 39-529
39.04	Eccentric - No. 2 Cylinder - Bottom	1	392-A-5108	Cast Iron, Pattern 39-530
39.05	Eccentric Key	2	392-A-5108	Tool Steel
39.06	Eccentric Stud	2	392-A-5108	Steel
39.07	Eccentric Strap Top	6	392-A-5110	Cast Steel, Pattern 39-368-A
39.08	Eccentric Strap Bottom	6	392-A-5110	Cast Steel, Pattern 39-121
39.09	Eccentric Strap Bolts	12	392-A-5110	Steel, Furnish Nuts and Cotters
39.10	Eccentric Strap Liner	6 Pair	392-A-5110	High Strength Gun Iron
39.11	Eccentric Strap Filler Shims	48	392-A-5110	#22 Steel
39.12	Eccentric Strap Liner Material Order	2 Tubs	39-MO-5000	High Strength Gun Iron, Pattern 39-456
39.13	Eccentric Rod - #1 Cylinder - Fwd	1	392-A-5113	Steel, Forging Sketch 392-A-5113
39.14	Eccentric Rod - #1 Cylinder - Bkw	1	392-A-5115	Steel, Forging Sketch 392-A-5115
39.15	Eccentric Rod Pin	6	392-A-5111	Steel, Furnish Nuts, Dowels, Cotters, etc.
39.16	Eccentric Rod - #2 & 3 Cylinder - Fwd	2	392-A-5112	Steel, Forging Sketch 392-A-5112
39.17	Eccentric Rod - #2 & 3 Cylinder - Bkw	2	392-A-5114	Steel, Forging Sketch 392-A-5114
39.18	Eccentric Rod Bolts			See Bolt List

<b>Group - 42: Erecting Cards, Elevations</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
42.01	Backhead Arrangement	1 Set	428-A-5065	
42.02	Erecting Plan - Elevation	1 Set	420-A-5014	

<b>Group - 43: Erecting Cards, Cross Sections</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
43.01	Erecting Plans - Sections	1 Set	430-A-5000	

<b>Group - 44: Exhaust Pipe and Nozzles</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
44.01	Exhaust Drop Pipe	1	444-A-5000	Cast Iron, Pattern 44-827
44.02	Exhaust Pipe Joint Ring	1	792-P-111	Furnish Liner Slip Joint and Drop Pipe, Cast Iron, Pattern 79-103
44.03	Exhaust Pipe Drop Pipe Gasket	1	442-A-5112	Copper
44.04	Exhaust Nozzle	1	443-A-5006	Cast Iron, Pattern 44-833
44.05	Exhaust Pipe	1	443-A-5006	Cast Iron, Pattern 44-832
44.06	Exhaust Pipe Gasket	1	442-A-5110	Johns Manville
44.07	Exhaust Blower Ring and Brackets	1 Set	442-A-5113	Furnish Complete with 3 Supports
44.08	Exhaust Flange	3	442-A-5108	Cast Iron, Pattern 44-826
44.09	Exhaust Pipe Manifold	1	447-A-5000	Front Section, Cast Steel, Pattern 44-830
44.10	Exhaust Pipe Manifold	1	447-A-5000	Center Section, Cast Steel, Pattern 44-829
44.11	Exhaust Slip Joint Gland	1	442-A-5111	Cast Iron, Pattern 44-834
44.12	Exhaust Pipe Slip Joint	1	442-A-5111	Cast Iron, Pattern 44-835
44.13	Exhaust Pipe Joint Ring	1	792-S-114	Exhaust Pipe and Pipe Flange, Cast Iron, Pattern 79-957
44.14	Exhaust Slip Joint Packing	1 Set	442-A-5111	3/4" Diameter Asbestos Rope Packing
44.15	Exhaust Pipe Manifold	1	447-A-5000	Rear Section, Cast Steel, Pattern 44-828
44.16	Exhaust Man. Joint Ring - #3 Cyl.	1	792-C-105	Cast Iron, Pattern 79-113
44.17	Exhaust Man. Joint Ring - #1 & 2 Cyl.	2	792-R-105	Cast Iron, Pattern 79-113
44.18	Exhaust Pipe - Cylinder	1	443-A-5007	10" St. Wt. Pipe
44.19	Exhaust Pipe Flange - Cylinder	1	442-A-5109	Cast Steel, Pattern 44-831



Group - 45: Fire Door, Fire Brick and Tubes				
Item	Drawing Title	Quantity	Drawing Number	Construction Notes
45.01	Fire Brick	1 Set	454-A-5001	
45.02	Fire Brick Arch Tube	3	454-A-5001	
45.03	Fire Brick Arch Tube Setting	1	454-A-5001	
45.04	Fire Door	1	C-12710-J	F.R.S. Co. C-12710-J-Line #1, Butterfly No. 8A
45.05	Fire Door Frame	1	D-11993-J	F.R.S. Co. D-11993-J-Line #1

Group - 48: Frames and Details				
Item	Drawing Title	Quantity	Drawing Number	Construction Notes
48.01	Frame - Complete	1 Set	480-A-5000	Built Up Girder Type, Furnish Angles, Fillers, Bolsters, Liners
48.02	Frame Boiler Saddle Right	1	482-A-5085	Cast Iron, Pattern 48-648
48.03	Frame Boiler Saddle Left	1	482-A-5085	Cast Iron, Pattern 48-651
48.04	Frame End Casting Plate - Rear Foot	1	483-A-5071	Cast Steel, Pattern 44-711-B
48.05	Frame Fabricated Angle	1R, 1L	482-A-5217	Welded Construction, Forging Sketch 482-A-5217
48.06	Frame Material Order	1 Set	48-MO-5005	
48.07	Frame Rivet Material	1 Set	48-MO-5006	
48.08	Frame Center Plate - Front	1	483-A-5072	Cast Steel, Pattern 48-722
48.09	Frame Center Plate - Rear	1	483-B-5072	Cast Steel, Pattern 48-722
48.10	Frame Side Bearing	2R, 2L	480-A-5000	Bar Steel, 1 1/4" x 6" x 20" Long
48.11	Frame Jacking Bracket	1R, 1L	480-A-5000	Forging Sketch 48-E-5047
48.12	Frame Base	1	480-A-5000	Forging Sketch 48-J-5046
48.13	Frame Base	1	480-A-5000	1" x 6" x 73" Long
48.14	Frame Base		488-A-5078	Frame Reinforcement After Shipment, 10/16/46, R. 16692
48.14	Frame Base		488-A-5078	Frame Base Applied to 487-A-5035 12/10/45
48.15	Frame Pit Timber Brace	1	480-A-5000	Forging Sketch 48-S-5004
48.16	Frame Smoke Brace Pin	2	752-C-5104	Steel, Furnish Bolt and Nut
48.17	Frame Smoke Box Brace Pad	2	482-A-5215	Cast Iron, Pattern 48-718
48.18	Furnace Bearer - Front	1	483-A-5070	Cast Steel, Pattern 48-720
48.19	Furnace Bearer - Rear	1	483-A-5069	Cast Steel, Pattern 48-719
48.20	Furnace Bearer Plate	1	482-A-5216	Plate
48.21	Furnace Bearer Fill Blocks - Front	2	482-B-5134	Cast Steel, Pattern 48-687

Group - 49: Gauges, Templates and Jigs				
Item	Drawing Title	Quantity	Drawing Number	Construction Notes

Group - 50: Guides, Yoke and End				
Item	Drawing Title	Quantity	Drawing Number	Construction Notes
50.01	Guide	6	502-A-5033	Machine Right and Left in Sets, Cast Iron, Pattern 50-3

Group - 51: Grate Arrangement				
Item	Drawing Title	Quantity	Drawing Number	Construction Notes
51.01	Grate Arrangement	1 Set	517-A-5002	Furnish Fillers and Chip Side Frames to Suit

Group - 52: Grate Details				
Item	Drawing Title	Quantity	Drawing Number	Construction Notes
52.01	Grate Lever Fulcrum	2	523-A-5003	Cast Steel, Pattern 52-2139
52.02	Grate Bars	24	522-A-5031	Cast Iron, Pattern 52-21
52.03	Grate Bars Center Rail Support	2	522-A-5023	Cast Iron, Pattern 52-530
52.04	Grate Center Rail	1	522-A-5021	Cast Iron, Pattern 52-1344
52.05	Grate Side Rail	2	522-A-5022	Cast Iron, Pattern 52-1345, See Note on Next Entry
52.06	Grate Side Rail	2	522-B-5022	Future 1/2" Liners Applied Right and Left to #3354
52.07	Grate Cross Brace	1	522-A-5028	Cast Iron, Pattern 52-531
52.08	Grate Cross Brace Support	2	522-A-5154	Forging Sketch 522-A-5154
52.09	Grate Shaker Pins	8	522-L-1125	Forging Sketch 522-L-1125
52.10	Grate Dead Plate	4	522-A-5029	Cast Iron, Pattern 52-1348

<b>Group - 52: Grate Details (Continued)</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
52.11	Grate Shaker Shaft Bkt. Latch - Front	2	522-A-1272	Cast Steel, Pattern 52-2140
52.12	Grate Shaker Shaft Bkt. Latch - Back	2	522-B-1272	Cast Steel, Pattern 52-2141
52.13	Grate Shaker Lever	4	522-A-5153	Forging Sketch 522-A-5153
52.14	Grate Shaker Handle	1	522-A-1153	Cast Steel, Pattern 52-2056
52.15	Grate Shaker Handle Latch Pin	4	522-B-1271	Forging Sketch 522-B-1271
52.16	Grate Shaker Handle Pin	2	522-A-1271	Forging Sketch 522-A-1271
52.17	Grate Shaker Lever Connection - Back	2	522-A-5155	Forging Sketch 522-A-5155
52.18	Grate Shaker Lever Connection - Front	2	522-B-5155	Forging Sketch 522-B-5155
52.19	Grate Shaker Connection Bar	4	522-A-5152	Bar Steel, Forging Sketch 522-A-5152
52.20	Grate Shaker Connection Bar Lug	4	522-A-5152	Plate, Forging Sketch 522-A-5152

<b>Group - 53: Hand Rails and Steps, Engine and Tender</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
53.01	Hand Rail - Right Side	1 Set		1 1/4" Diam. Steel Rod, See Erection Dwg, Drill and Bend to Suit
53.02	Hand Rail - Left Side	1 Set		1" Diam. Conduit Pipe, See Erection Dwg, Drill and Bend to Suit
53.03	Hand Rail Tee - Right Side	6	532-A-877	Cast Steel, Pattern 53-866
53.04	Hand Rail Flange - Right Side	2	532-B-484	Cast Steel, Pattern 53-641
53.05	Hand Rail Flange - Left Side	2	532-A-484	Cast Steel, Pattern 53-641
53.06	Hand Rail Coupling - Right Side	1	532-B-947	Pipe
53.07	Hand Rail Flanges - Right Side	6	532-A-878	Cast Steel, Pattern 53-867
53.08	Head Light Grab Handle	1	532-A-5106	Forging Sketch 532-A-5106
53.09	Cab Ladder Arrangement - Left Side	1 Set	534-A-5000	Furnish Filler Blocks
53.10	Cab Ladder Arrangement - Right Side	1 Set	534-B-5000	Furnish Filler Blocks
53.11	Cab Handle - Right	2	534-B-5000	1" Exh. Hvy. Pipe, Apply Pipe Caps and Rivets at Assembly
53.12	Cab Handle - Left	2	534-A-5000	1" Exh. Hvy. Pipe, Apply Pipe Caps and Rivets at Assembly
53.13	End Timber Grab Handle - Front	2	214-A-5037	Forging Sketch 103-F-171
53.14	End Timber Handle - Rear	1	214-A-5038	Tender, Forging Sketch 53-A-5007
53.15	End Timber Handle - Front	1	214-A-5037	Engine, Forging Sketch 53-A-5007
53.16	End Timber Handle Bracket - Rear	1	214-A-5038	Tender, Forging Sketch 53-A-5008

Group - 53: Hand Rails and Steps, Engine and Tender (Continued)				
Item	Drawing Title	Quantity	Drawing Number	Construction Notes
53.17	End Timber Handle Bracket - Front	1	214-A-5037	Engine, Forging Sketch 53-A-5008
53.18	Cab Handle - Left Side Roof	1	532-A-5094	Forging Sketch 532-A-5094
53.19	Sand Box Handle	2	732-D-143	Forging Sketch 732-D-143
53.20	Bottom Bracket Step	4	532-A-5097	Forging Sketch 532-A-5097
53.21	Cab Ladder Frame - Right Side	1	532-A-5098	Forging Sketch 532-A-5098
53.22	Cab Ladder Frame Steps - Right Side	1 Set	532-A-5098	Spot Weld Treads, Forging Sketch 532-A-5098
53.23	Cab Ladder Frame - Left Side	1	532-A-5099	Forging Sketch 532-A-5099
53.24	Cab Ladder Frame Steps - Left Side	1 Set	532-A-5099	Spot Weld Treads, Forging Sketch 532-A-5099
53.25	Cab Ladder Brace - Left Side	1	532-A-5100	Forging Sketch 532-A-5100
53.26	Cab Ladder Brace - Right Side	1	532-B-5101	Forging Sketch 532-B-5101
53.27	End Timber Step Brace - Engine	1R, 1L	214-A-5037	Bar Steel
53.28	End Timber Step Brace - Tender	2	214-A-5038	Bar Steel
53.29	End Timber Step - Front - Engine	1R, 1L	214-A-5037	Wood Tread
53.30	End Timber Step - Back - Tender	1R, 1L	214-A-5038	Wood Tread
53.31	End Timber Step Bracket - Engine	4	214-A-5037	Forging Sketch 53-B-5006
53.32	End Timber Step Bracket - Tender	4	214-A-5038	Forging Sketch 53-B-5006
53.33	Sand Box Step	2	532-A-279	Cast Iron, Pattern 53-14
53.34	Sand Box Step Bracket	1	732-A-5042	Forging Sketch 732-A-5042
53.35	Sand Box Step Bracket	1	732-B-5042	Forging Sketch 732-B-5042
53.36	Hand Rail Column	3	532-K-485	8 1/2", Left and Right of Smoke Box, Cast Steel, Pattern 53-649
53.37	Hand Rail Column	1	532-M-485	7 1/2", 1st C.R. Front Left Side, Cast Steel, Pattern 53-652
53.38	Hand Rail Column	1	532-M-485	7 1/2", 1st C.R. Back Left Side, Cast Steel, Pattern 53-652
53.39	Hand Rail Column	1	532-M-485	7 1/2", Firebox Back Left Side, Cast Steel, Pattern 53-652
53.40	Hand Rail Column	1	532-C-762	6", Dome Course Left Side, Cast Steel, Pattern 53-653
53.41	Hand Rail Column	1	532-J-485	6 1/2", Firebox Front Left Side, Cast Steel, Pattern 53-648
53.42	Hand Rail Column Caps	1	532-K-485	Cast Steel, Pattern 53-646
53.43	Hand Rail Column Caps	3	532-M-485	Cast Steel, Pattern 53-646
53.44	Hand Rail Column Caps	2	532-C-762	Cast Steel, Pattern 53-646
53.45	Hand Rail Column Washers	1	532-A-272	2", 1st C.R. Front Left Side, Cast Iron, Pattern 53-107
53.46	Hand Rail Column Washers	1	532-K-272	3", 1st C.R. Back Left Side, Cast Iron, Pattern 53-492
53.47	Hand Rail Column Washers	2	532-B-272	2 1/2", Firebox Front and Back Side, Cast Iron, Pattern 53-111
53.48	Hand Rail Column Bracket	1	532-A-5095	Dome CR. Left Side, Forging Sketch 532-A-5095, Apply Rivets
53.49	Hand Rail Post	2	532-A-5096	On Running Board Right Side, Forging Sketch 532-A-5096

<b>Group - 53: Hand Rails and Steps, Engine and Tender (Continued)</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
53.50	Hand Rail Post	3	532-B-5096	On Running Board Right Side, Forging Sketch 532-B-5096
53.51	Hand Rail Post	1	532-C-5096	On Running Board Right Side, Forging Sketch 532-C-5096
53.52	Cab Handle Post - Top	4	532-A-5102	Forging Sketch 532-A-5102
53.53	Cylinder Frame Grab Handle	2R, 1L	532-A-5104	Forging Sketch 532-A-5104
53.54	Cab Handle Post	1R, 1L	532-A-5103	Forging Sketch 532-A-5103
53.55	Cab Handle Post	1R, 1L	532-A-5105	Forging Sketch 532-A-5105

<b>Group - 54: Headlights and Signal Attachments, Lamps, Electric Wiring</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
54.01	Electrical Material Order	1 Set	54-MO-5009	
54.02	Electric Wiring	1 Set	543-A-5001	Furnish Washers, Nuts, and Bolts
54.03	Head Light, Electric	2	206640	Pyle National 206640, 12-C-640
54.04	Head Light Bracket	1	542-A-5032	Forging Sketch 542-A-5032
54.05	Generator Bracket	1	542-A-5033	Plate, Forging Sketch 542-A-5033
54.06	Generator Bracket Washers	4	532-B-272	2 1/2", Cast Iron, Pattern 53-111
54.07	Lamp Bracket Studs	4	542-A-231	Steel, Furnish Nuts and Lock Washers
54.08	Number Plate	1	542-B-5009	Apply Road Number Per Specification, Cast Iron, Pattern 54-6
54.09	Number Plate Stud	1	A-12969	Steel, Furnish Nuts
54.10	Builder's Card	2	543-A-181	Cast Iron, Pattern 54-864
54.11	Name Plate	2	B-11138	Cast Iron, Pattern 54-4, Locate on Side of Cab Right & Left
54.12	Patent Plate	1	542-A-5031	Cast Iron, Pattern 54-871
54.13	Superheater Patent Plate	1		Furnished by Supplier, See Elevation Drawing for Location
54.14	Head Light Turbo Generator	1	11-F-400-C-K-240	Pyle National, 11-F-400-C-K-240
54.15	Valve Name Plate	2	542-N-121	Injector, Cast White Metal, Pattern 54-324
54.16	Valve Name Plate	1	542-E-121	Blower, Cast White Metal, Pattern 54-202
54.17	Valve Name Plate	1	542-L-121	Turret, Cast White Metal, Pattern 54-322
54.18	Valve Name Plate	1	542-D-121	Air Pump, Cast White Metal, Pattern 54-201
54.19	Valve Name Plate	1	542-F-121	Dynamo, Cast White Metal, Pattern 54-203
54.20	Valve Name Plate	1	542-A-121	Water Glass, Cast White Metal, Pattern 54-198

<b>Group - 54: Headlights and Signal Attachments, Lamps, Electric Wiring (Continued)</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
54.21	Valve Name Plate	1	542-K-121	Lubricator, Cast White Metal, Pattern 54-321
54.22	Conduit Clamp Base	7	542-A-5035	Bar Steel, Apply Stud
54.23	Conduit Clamp Cap	7	542-A-5035	Forging Sketch 542-A-5035
54.24	Conduit Clamp J-Bolts	4	542-H-517	Forging Sketch 542-H-517
54.25	Conduit Clamp J-Bolts	2	542-F-517	Forging Sketch 542-F-517
54.26	Conduit Clips	6	543-A-5001	Angle, See Detail "P"
54.27	Conduit Clips	6	543-A-5001	Forging Sketch 63-S-63
54.28	Electric Fixture Bracket	1	542-A-5034	Steel
54.29	Electric Fixture Bracket	1	542-B-5034	Plate

<b>Group - 55: Injectors, Boiler Checks and Strainers</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
55.01	Injectors	1R, 1L	31222	Class "N" Lifting Type, 10 1/2" Size, Seller #31222
55.02	Injectors Bracket - Left Side	1	552-A-5019	Bar Steel, Forging Sketch 552-A-5019
55.03	Injectors Starting Lever	2	10-832-B	Sellers #10-832-B
55.04	Injectors Starting Lever Handle	2	10-858-A	Sellers #10-858-A
55.05	Injectors Starting Lever Universal Joint	2 Sets	10-661-A	Sellers #10-661-A
55.06	Injector Check Valve	2	40553	Sellers #40553, Style K-2
55.07	Injector Control Rod	2		3/8" I.P. Length to Suit Erector Shop, Apply Pin and Handle
55.08	Injector Rod Jaw	2	732-K-28	Forging Sketch 732-K-28
55.09	Injector Bracket - Right Side	1	552-A-5020	Steel Plate, Forging Sketch 552-A-5020
55.10	Injector Hose Connection	4	553-A-5001	Cast Iron, Pattern 55-68
55.11	Injector Hose Connection Nuts	4	553-A-5001	Cast Brass, Pattern 55-69
55.12	Injector Hose Connection Nipples	4	553-A-5001	Cast Brass, Pattern 55-70
55.13	Injector Water Valve Rod Extention	2 Sets		Steel Rod, Machine Ends and Length to Suit in Erection Shop
55.14	Feed Hoses	2		2 1/2" x 54"

<b>Group - 57: Lagging and Jacket</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
57.01	Boiler Lagging	1 Set	572-A-5020	
57.02	Jacket Clamp	8	572-B-68	Cast Steel, Pattern 57-113
57.03	Jacket Clamp	32	572-C-86	Cast Steel, Pattern 57-99
57.04	Jacket Clamp	44	572-C-69	Cast Steel, Pattern 57-49
57.05	Jacket Studs	22		3/8" Diameter x 5" Long, Threaded Steel
57.06	Jacket Studs	16		3/8" Diameter x 8" Long, Threaded Steel
57.07	Boiler Jacket	1 Set		#20 Jacket Iron, Apply to Suit in Erection Shop
57.08	Jacket Nuts, Back Head	20	322-J-112	Steel
57.09	Pipe Covering Material Order	1 Set	57-MO-5037	
57.10	Plug Casing Extension Arrangement	15	572-A-222	
57.11	Plug Cover - Arch Tube	3	572-P-58	
57.12	Plug Casing - Plugs "X"	12	572-B-248	Pressed Steel
57.13	Plug Cover - Arch Tube	3	572-A-248	Pressed Steel
57.14	Plug Cover - Plugs "X"	10	572-H-58	
57.15	Cylinder Lagging	1 Set		Use Boiler Scrap, Apply to Suit in Erection Shop
57.16	Cylinder Jacket	1 Set		#20 Jacket Iron, Apply to Suit in Erection Shop
57.17	Boiler Check Jacket Flange	2		#16 Jacket Iron, Apply to Suit in Erection Shop

<b>Group - 58: Link Motion</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
58.01	Plan View of Motion Work	1 Set	583-A-5008	
58.02	Link	3	583-A-5007	Cast Steel, Pattern 58-417 or Pattern 58-467
58.03	Link Saddle Pin	3	582-A-5047	Furnish Nuts, Medium Carbon Steel, Forging Sketch 582-A-5047
58.04	Link Saddle Washer	3	582-A-5047	1/4" x 3" Diameter Finish Size, Medium Carbon Steel
58.05	Link Block	3	582-A-5048	Furnish Bushings, Nuts, and Cotters, Forging Sketch 582-A-5048
58.06	Link Block Pin	3	582-A-5045	Pin Steel Case hardened
58.07	Link Block Plates	3	582-A-5046	Forging Sketch 582-A-5046
58.08	Link Block Plates	3	582-B-5046	Forging Sketch 582-B-5046
58.09	Link Hanger	2R, 2L	582-A-5049	Furnish Bushings, Forging Sketch 582-A-5049
58.10	Link Hanger Pin	3	582-A-5050	Steel, Dowels, Nuts, and Cotters, AAR Hard Bronze Bushing
58.11	3 Feed Force Feed Lubrication	1	25-D	Manzell-25-D, 6 1/2 Pints, Steam Chest Lubrication

Group - 59: Oil and Grease Cups, Lubricator and Bracket, Oil Can Holder				
Item	Drawing Title	Quantity	Drawing Number	Construction Notes
59.01	Lubricator - 4 Feed, Four Pint	1	1355	Nathan #1355, Hydrostatic Sight Feed
59.02	10 Feed Force Feed Oil Lubrication	1	25-D	Manzell-25-D, 13 1/2 Pints, Guides and Crank Pin Bearings
59.03	Bottom Bracket Grease Cup	4	592-A-5007	Cast Iron, Pattern 59-50
59.04	Bottom Bracket Grease Cup Cap	4	592-A-5007	Cast Iron, Pattern 59-52
59.05	Bottom Bracket Grease Cup Nut	4	592-A-5007	Cast Iron, Pattern 59-51
59.06	Crosshead Oil Cup	3	E-2016	Powel #E-2016, #4 Spring Top, 3/8" I.P. Thd Shk Straight Type
59.07	Eccentric Strap Oil Cup	6	E-2016	Powel #E-2016, #4 Spring Top, 3/8" I.P. Thd Shk Straight Type
59.08	Eccentric Strap Grease Cup	6	2	Lunkenheimer #2, Tiger
59.09	Power Reverse Gear Grease Fittings	13	1401	Prime Alemite #1401, 1/4" I.P. Size
59.10	Power Reverse Gear Grease Fittings	2	1184	Prime Alemite #1184, 1/8" I.P. Size
59.11	Sq. Shaft Sleeve Grease Fitting Adapter	24	632-A-5023	Stick Brass
59.12	Sq. Shaft Sleeve Grease Fitting	24	1184	Prime Alemite #1184, 1/8" I.P. Size
59.13	Coupling Ring Grease Fitting	24	1610	Zerk Alemite #1610, 1/8" I.P. Size
59.14	Truck Center Plate Oil Piping	3 Sets	592-A-5044	
59.15	Packing Oil Cup	3	592-A-5005	Furnish 1/16" Steel Spring, Brass Casting, Pattern 59-44
59.16	Packing Oil Cup Cap	3	592-A-5005	Brass Casting, Pattern 59-45
59.17	Packing Oil Cup Plug	3	592-A-5005	Steel, Furnish Wire
59.18	Rod Oil Cup Arrangement	1 Set	592-A-5038	
59.19	Rod Oil Cup Cap Plug	3	592-A-5038	Steel
59.20	Rod Oil Cup Plug	3	1268	Prime Alemite #1268
59.21	Tumbler Shaft Oil Cup	3	E-2016	Powel E-2016, #4, Spring Top, 3/8" I.P. Thd Shk Straight Type
59.22	Valve Stem CrossHead Guide Oil Cup	6	E-2016	Powel E-2016, #4, Spring Top, 3/8" I.P. Thd Elbow Shank Type
59.23	Oil Can Shelf - Complete	1	592-B-458	Furnish Angle and Edge, Forging Sketch 592-B-458
59.24	Oil Can Shelf Bracket	2	592-B-458	Forging Sketch 59-B-98
59.25	Lubricator Drive Pin	1	592-A-5042	Medium Carbon Steel, Furnish Nuts, Washers, and Cotters
59.26	Lubricator Arrangement	1 Set	594-A-5000	Weld Clamps On to Suit
59.27	Lubricator Drive Rod Lower	1	593-M-5002	3/8" I.P. Weld 1/2" Diameter Ends Into Pipe
59.28	Lubricator Drive Rod End	1	592-A-5042	Stick Brass
59.29	Lubricator Push Rod	1	593-L-5002	3/8" I.P. Weld 1/2" Diameter Ends Into Pipe
59.30	Lubricator Push Rod Jaw	1	A-11149	Set 3, Line 3, Furnish Rivet Pin and Drill for Cotter
59.31	Lubricator Push Rod Guide - Complete	1	593-K-5002	Weld Jaw to Tube, Furnish Rivet Pin and Drill for Cotter
59.32	Lubricator Push Rod Guide Arm	1	592-A-5041	Forging Sketch 592-A-5041
59.33	Lubricator Push Drive Arm Link	1	594-A-5000	3/8" Diameter Cold Rolled Steel x 13 1/2" Long



<b>Group - 59: Oil and Grease Cups, Lubricator and Bracket, Oil Can Holder (Continued)</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
59.34	Lubricator Bracket Hydrostatic Lub.	1	592-A-5040	Furnish Complete, Forging Sketch 592-A-5040
59.35	Lubricator Drive Rod End - Upper	1	592-B-5042	Stick Brass

<b>Group - 60: Oil Burning Attachments - Engine</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>

<b>Group - 61: Painting, Lettering and Numbering</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>

<b>Group - 62: Pilot and Snow Plow</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>

<b>Group - 63: Pipe Fittings and Clamps, Air, Steam, Water and Lubricator</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
63.01	Air Pump Oil Fitting	1	632-H-709	Stick Brass
63.02	Air Pump Oil Fitting Nut	1	632-C-709	Stick Brass
63.03	Air Pump Oil Fitting Swivel	1	632-C-709	Brazing Metal
63.04	Air Pump Steam Pad	1	632-X-725	Steel, Lubrication Line to Air Pump Steam
63.05	Blower Fitting	1	632-A-5008	Cast Iron, Pattern 63-80
63.06	Brake Gov. Line Fitting	4	632-U-709	Brazing Metal, Unions in Gauge Line and Gov. Line
63.07	Brake Gov. Line Fitting Nut	4	632-B-709	Stick Brass, Unions in Gauge Line and Gov. Line
63.08	Brake Fitting Swivel	4	632-B-709	Brazing Metal, Unions in Gauge Line and Gov. Line
63.09	Coal Sprinkler Fitting - At Valve	1	632-C-1049	Steel
63.10	Coal Sprinkler Pipe Pad	1	632-J-1045	Steel
63.11	Coal Sprinkler Hose	1 Set		1/2" I.D. x 3 Ply x 8 Foot Long
63.12	Cylinder Oil Pipe Fitting	3	632-B-4	Stick Brass

<b>Group - 63: Pipe Fittings and Clamps, Air, Steam, Water and Lubricator (Continued)</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
63.13	Cylinder Oil Pipe Fitting Nut	4	632-C-709	Stick Brass, Hydro. Lubrication Lines Union
63.14	Cylinder Oil Pipe Fitting	4	632-W-709	Brazing Metal, Hydro. Lubrication Lines Union
63.15	Cylinder Oil Pipe Fitting Swivel	4	632-C-709	Brazing Metal, Hydro. Lubrication Lines Union
63.16	Cylinder Oil Pipe Choke Plug Machining	3	632-H-305	Machining at Lima
63.17	Brake Pipe Union Fitting	2	632-W-709	Brazing Metal, Unions in Dist. Valve Lines
63.18	Brake Pipe Union Fitting Nut	2	632-C-709	Stick Brass, Unions in Dist. Valve Lines
63.19	Brake Pipe Union Fitting Swivel	2	632-C-709	Brazing Metal, Unions in Dist. Valve Lines
63.20	Oil Pipe Union Fitting	26	632-B-2081	Brazing Metal, Manzel Oil Lines
63.21	Oil Pipe Union Fitting Nut	26	632-A-2081	Stick Brass, Manzel Oil Lines
63.22	Oil Pipe Union Fitting Swivel	26	632-A-2081	Brazing Metal, Manzel Oil Lines
63.23	Steam Gauge Fitting - At Gauge	1	632-D-1055	Stick Brass
63.24	Steam Gauge Fitting Nut - At Gauge	1	632-B-709	Stick Brass
63.25	Steam Gauge Fitting Swivel - At Gauge	1	632-B-709	Brazing Metal
63.26	Superheater Damper Cyl. Fitting	6	632-A-71	Stick Brass
63.27	Superheater Damper Cyl. Fitting Nut	6	632-A-5	Stick Brass
63.28	Superheater Damper Cyl. Fitting Swivel	6	632-A-5	Brazing Metal
63.29	Pipe Clamp	2	632-A-345	Cast Steel, Pattern 63-541
63.30	Pipe Clamp	3	632-D-345	Cast Steel, Pattern 63-837
63.31	Pipe Clamp	1	632-A-394	Cast Steel, Pattern 63-593
63.32	Pipe Clamp Cap	5	632-A-346	Cast Steel, Pattern 63-542
63.33	Pipe Clamp Cap	1	632-D-346	Cast Steel, Pattern 63-566
63.34	Pipe Clamp	3	633-C-84	Cylinder Cocks, Forging Sketch 633-C-84
63.35	Pipe Clamp Cap	3	633-C-84	Cylinder Cocks, Forging Sketch 633-C-84
63.36	Pipe Clamp	1	633-H-71	Cylinder Cocks, Forging Sketch 633-H-71
63.37	Pipe Clamp Cap	1	633-H-71	Cylinder Cocks, Forging Sketch 633-H-71
63.38	Pipe Clamp Bkt. - L. Side Dome Course	1	632-A-5020	Forging Sketch 632-A-5020
63.39	Pipe Protection Collar	2	632-A-1131	Lub. Steam at Cab, Cast Brass, Pattern 63-1321
63.40	Pipe Protection Collar	4	632-C-1131	Water Gauge at Cab, Cast Brass, Pattern 63-1323
63.41	Pipe Clamp Base - Oil Pipes	11	632-A-5019	Steel, Furnish Stud
63.42	Pipe Clamp Base Cap - Oil Pipes	11	632-A-5019	Steel, Forging Sketch 632-A-5019
63.43	Pipe Clamp Base - Oil Pipes	5	632-B-5019	Steel, Furnish Stud
63.44	Pipe Clamp Base Cap - Oil Pipes	5	632-B-5019	Steel, Forging Sketch 632-B-5019
63.45	Pipe Clamp Base - Oil Pipes	1	632-C-5019	Steel, Furnish Stud

<b>Group - 63: Pipe Fittings and Clamps, Air, Steam, Water and Lubricator (Continued)</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
63.46	Pipe Clamp Base Cap - Oil Pipes	1	632-C-5019	Steel, Forging Sketch 632-C-5019
63.47	Pipe Clamp Base - Oil Pipes	2	632-D-5019	Steel, Furnish Stud
63.48	Pipe Clamp Base Cap - Oil Pipes	2	632-D-5019	Steel, Forging Sketch 632-D-5019
63.49	Pipe Clamp Base - Oil Pipes	3	632-E-5019	Steel, Furnish Stud
63.50	Pipe Clamp Base Cap - Oil Pipes	3	632-E-5019	Steel, Forging Sketch 632-E-5019
63.51	Pipe Clamp Base - Sander	10	633-H-71	Forging Sketch 633-H-71
63.52	Pipe Clamp Base Cap - Sander	10	633-H-71	Forging Sketch 633-H-71
63.53	Pipe Clamp Base - Sander	8	633-P-71	Forging Sketch 633-P-71
63.54	Pipe Clamp Base Cap - Sander	8	633-P-71	Forging Sketch 633-P-71
63.55	Pipe Clamp Base - Sander	4	632-A-5022	On Brake Beam, Forging Sketch 632-A-5022
63.56	Pipe Clamp Base - Sander Air Line	7	632-F-1291	Steel, Furnish Stud
63.57	Pipe Clamp Base Cap - Sander Air Line	7	632-F-1291	Forging Sketch 632-F-1291
63.58	Pipe Clamp Base - Damper Cyl. Line	3	633-R-14	Forging Sketch 633-R-14
63.59	Pipe Clamp Base Cap - Dmpr. Cyl. Line	3	633-R-14	Forging Sketch 633-R-14
63.60	Pipe Clamp Base - Damper Cyl. Line	1	633-H-71	Forging Sketch 633-H-71
63.61	Pipe Clamp Base Cap - Dmpr. Cyl. Line	1	633-H-71	Forging Sketch 633-H-71
63.62	Pipe Clamp Bracket	1	632-A-5021	Forging Sketch 632-A-5021, Furnish Gusset
63.63	Pipe Clamp Cap	1	632-B-5021	Forging Sketch 632-B-5021
63.64	Pipe Clamp	11	633-J-16	Forging Sketch 633-J-16
63.65	Pipe Clamp Cap	11	633-J-16	Forging Sketch 633-J-16
63.66	Pipe Clamp	4	633-A-15	Forging Sketch 633-A-15
63.67	Pipe Clamp	4	633-C-16	Forging Sketch 633-C-16
63.68	Pipe Clamp Cap	4	633-C-16	Forging Sketch 633-C-16
63.69	Pipe Clamp	2	633-B-81	Forging Sketch 633-B-81
63.70	Pipe Clamp Cap	2	633-B-81	Forging Sketch 633-B-81
63.71	Pipe Clamp	4	633-B-15	Forging Sketch 633-B-15
63.72	Pipe Clamp	1	633-M-71	Forging Sketch 633-M-71
63.73	Pipe Clamp Cap	1	633-M-71	Forging Sketch 633-M-71
63.74	Pipe Clamp	3	633-F-14	Forging Sketch 633-F-14
63.75	Pipe Clamp Cap	3	633-F-14	Forging Sketch 633-F-14
63.76	Pipe Clamp	6	633-N-14	Forging Sketch 633-N-14
63.77	Pipe Clamp Cap	6	633-N-14	Forging Sketch 633-N-14
63.78	Pipe Clamp	11	633-D-16	Forging Sketch 633-D-16

<b>Group - 63: Pipe Fittings and Clamps, Air, Steam, Water and Lubricator (Continued)</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
63.79	Pipe Clamp Cap	11	633-D-16	Forging Sketch 633-D-16
63.80	Pipe Clamp	1	633-D-14	Forging Sketch 633-D-14
63.81	Pipe Clamp Cap	1	633-D-14	Forging Sketch 633-D-14
63.82	Pipe Clamp	3	633-J-14	Forging Sketch 633-J-14
63.83	Pipe Clamp Cap	3	633-J-14	Forging Sketch 633-J-14
63.84	Pipe Clamp	2	633-M-16	Forging Sketch 633-M-16
63.85	Pipe Clamp Cap	2	633-M-16	Forging Sketch 633-M-16
63.86	Pipe Clamp	1	633-B-16	Forging Sketch 633-B-16
63.87	Pipe Clamp Cap	1	633-B-16	Forging Sketch 633-B-16
63.88	Pipe Clamp	3	633-W-14	Forging Sketch 633-W-14
63.89	Pipe Clamp Cap	3	633-W-14	Forging Sketch 633-W-14

<b>Group - 64: Piping Arrangements, Engine and Tender, Air and Brake, Cooling</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
64.01	Piping Arrangemnt General	1 Set	640-A-5005	
64.02	Piping Arrangement Sprinkler	1 Set	643-A-5006	
64.03	Piping Arrangement Damper Cylinder	1 Set	643-A-5005	
64.04	Piping Arrangement Cylinder Cocks	1 Set	647-A-5000	
64.05	Piping Arrangement Sander - R. Trucks	1 Set	647-A-5001	
64.06	Piping Arrangement Sander - F. Trucks	1 Set	644-A-5006	

<b>Group - 65: Piston and Rod, Extensions, Rod Packing</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
65.01	Piston Head	3	652-B-5001	Cast Iron, Pattern 65-314
65.02	Piston Packing Rings, Material for	6	653-S-5000	High Strength Gun Iron, Pot Pattern, Cast Iron, Pattern H.S. 1705
65.03	Piston Rod	3	652-A-5183	Forging Sketch 652-A-5183
65.04	Piston Rod Nut	3	652-A-5183	Medium Carbon Steel, 4 1/4" Across Flats Hex x 2" Thick
65.05	Piston Rod Packing Arrangement	3 Sets	7742	Rings
65.06	Packing Rings	3 Sets	652-C-5155	Paxton Mitchell
65.07	Packing Spring Washer	3	653-A-5009	Cast Iron, Pattern 65-211
65.08	Packing Swab Cap	3	653-C-5009	Cast Brass, Pattern 65-315
65.09	Packing Stuffing Box	3	652-A-5051	Cast Iron, Pattern 65-307
65.10	Packing Stuffing Box Gland	3	652-A-5052	Cast Iron, Pattern 65-308
65.11	Packing Vibrating Cups	3	653-B-5009	Cast Iron, Pattern 65-131
65.12	Packing Spring	3	762-C-5009	No. 17
65.13	Packing Swab Cup Packing	3 Sets	7742	Rope Wick Packing
65.14	Packing Rings	6 Sets	652-C-5155	Paxton Mitchell, For Running Engine and Spare Set
65.15	Packing Studs - Piston Rod	12	652-A-5003	Steel, Furnish Nuts

<b>Group - 66: Plugs, Hand Holes and Washout</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
66.01	Arch Tube Plug	6	662-C-1	Cast Brass, Pattern 66-65
66.02	Back Head Plug	3	662-A-5007	Cast Brass, Pattern 66-7
66.03	Crown Plug	4	662-A-5007	Cast Brass, Pattern 66-7
66.04	Fire Box Plug	4	662-A-5007	Cast Brass, Pattern 66-7
66.05	Cylinder Peep Hole Plug	6	662-A-5010	Stick Brass
66.06	Waist Plug	5	662-A-5007	Cast Brass, Pattern 66-7

<b>Group - 68: Reverse Lever, Screw and Pneumatic Gears</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
68.01	Reverse Lever - In Cab	1	683-S-14540	Alco Part Number
68.02	Reverse Lever Support	1	682-A-5085	Bar Steel, Forging Sketch 682-A-5085
68.03	Reverse Lever Bell Crank	1	693-A-5003	Crank Complete, Forging Sketch 693-A-5003
68.04	Reverse Lever Bell Crank Pins	2	692-A-5060	Furnish Nuts, Dowel, and Cotter
68.05	Reverse Lever Bell Crank Pin	1	692-B-5060	Hex Steel, Furnish Nuts, Dowel and Cotter
68.06	Reverse Lever Gear Reach Rod	1	692-A-5061	Mild Steel, Furnish Steel Bushings, Forging Sketch 692-A-5061
68.07	Reverse Lever Gear Reach Rod Pin	1	692-B-5061	Furnish Nuts, Dowel, and Cotter
68.08	Reverse Lever Shaft Support	1	692-A-5059	Cast Steel, Pattern 69-698
68.09	Reverse Lever Shaft Support Filler	1	693-B-5003	Bar Steel, Apply Struts, Weld In, Forging Sketch 693-B-5003
68.10	Reverse Lever Shaft Support Caps	2	693-D-5003	Cast Steel, Pattern 69-699
68.11	Reverse Lever Reach Rod Jaws	2	693-C-5003	Furnish Bushing, Forging Sketch 693-C-5003
68.12	Reverse Lever Reach Rod	1 Set	692-A-5063	Furnish and Apply Rivets
68.13	Reverse Lever Reach Rod	1 Set	692-B-5063	Furnish and Apply Rivets
68.14	Reverse Shaft Arm - Complete	1	692-A-5058	Furnish Bushings and Bosses, Weld On
68.15	Reverse Shaft Arm	1	692-A-5058	Forging Sketch 69-A-5019, Diam. of Shaft Increased: 1213 SP
68.16	Reverse Shaft Arm	1	692-A-5058	Forging Sketch 69-A-5018, Diam. of Shaft Increased: 1213 SP
68.17	Reverse Gear Bracket	1	682-A-5084	Furnish Bosses for Welding, Forging Sketch 682-A-5084
68.18	Reverse Gear Bracket Brace	1	682-A-5084	Forging Sketch 682-A-5084
68.19	Power Reverse Gear	1	683-S-53441	Alco Part Number, Type G

<b>Group - 69: Reverse Shaft and Reach Rod</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
69.01	Tumbling Shaft - Complete	1	695-A-5002	4" Diameter x 133 1/2" Long Finish Size
69.02	Tumbling Shaft Cap	2	693-B-5002	Cast Iron, Pattern 69-696
69.03	Tumbling Shaft Arm	1		Forging Sketch 69-A-5016
69.04	Tumbling Shaft Arm	1		Forging Sketch 69-A-5017
69.05	Tumbling Shaft Arm Bushings	1	695-A-5002	Steel Case Hardened
69.06	Tumbling Shaft Arm Bushings	3	695-A-5002	Steel Case Hardened
69.07	Tumbling Shaft Box	2	693-B-5002	Cast Iron, Pattern 69-695

<b>Group - 69: Reverse Shaft and Reach Rod (Continued)</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
69.08	Tumbling Shaft Box	1	693-A-5002	Cast Iron, Pattern 69-695
69.09	Tumbling Shaft Box Cap	1	693-A-5002	Cast Iron, Pattern 69-696
69.10	Tumbling Shaft Coupling Ball	2	693-E-5004	Medium Carbon Steel, Forging Sketch 693-E-5004
69.11	Tumbling Shaft Coupling Socket	1	693-A-5004	Cast Steel, Pattern 69-700
69.12	Tumbling Shaft Coupling Socket	1	693-B-5004	Cast Steel, Pattern 69-700
69.13	Tumbling Shaft Coupling Cap	1	693-C-5004	Cast Steel, Pattern 69-701
69.14	Tumbling Shaft Coupling Cap	1	693-D-5004	Cast Steel, Pattern 69-701
69.15	Tumbling Shaft Coupling Screw	1	693-H-5004	Hex Steel
69.16	Tumbling Shaft Coupling Screw	1	693-J-5004	Hex Steel
69.17	Tumbling Shaft Coupling Lock Nut	1	693-K-5004	Hex Steel
69.18	Tumbling Shaft Coupling Lock Nut	1	693-L-5004	Hex Steel
69.19	Tumbling Shaft Coupling Washers	4	693-E-5004	Steel
69.20	Tumbling Shaft Coupling Nut	1	693-F-5004	Hex Steel
69.21	Tumbling Shaft Coupling Arrangement	1 Set	692-A-5062	Furnish Nuts, Cotters, etc.

<b>Group - 70: Rocker and Box</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>

<b>Group - 71: Running Boards and Brackets, Side and Deck Sheets</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
71.01	Running Board - R. & L. Side Complete	1 Set	710-A-5000	Furnish Tee Iron, Risers, and Angle
71.02	Running Board Material Order	1 Set	71-MO-5023	
71.03	Running Board Bracket	1	712-A-5062	Forging Sketch 712-A-5062, Right Side Board Over Reservoir
71.04	Running Board Bracket	1	712-A-5065	With Tee Iron, Plate and Angles, Right Side Rear of Bumper
71.05	Running Board Bracket	1	712-A-5065	Bar, Forging Sketch 712-B-5065, Right Side Rear of Bumper

<b>Group - 71: Running Boards and Brackets, Side and Deck Sheets (Continued)</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
71.06	Running Board Bracket	1	712-E-5063	Bar, Forging Sketch 712-E-5063, Right Side Taper Course
71.07	Running Board Bracket	1	712-D-5063	Bar, Forging Sketch 712-D-5063, R. Side Dome Course Bottom
71.08	Running Board Bracket	1	712-C-5063	Bar, Forging Sketch 712-C-5063, Right Side Dome Course Top
71.09	Running Board Bracket	1	712-B-5063	Bar, Forging Sketch 712-B-5063, Right Side Fire Box Front
71.10	Running Board Bracket	1	712-A-5063	Bar, Forging Sketch 712-A-5063, Right Side Fire Box Back
71.11	Running Board Bracket	1	712-E-5064	Bar, Forging Sketch 712-E-5064, Left Side Rear of Bumper
71.12	Running Board Bracket	1	712-D-5064	Bar, Forging Sketch 712-D-5064, Left Side Frame at Fire Box
71.13	Running Board Bracket	1	712-A-5064	Plate, Forging Sketch 712-A-5064, L. S. Frame at Smoke Box
71.14	Running Board Bracket	1	712-B-5064	Plate, Forging Sketch 712-B-5064, L. S. Frame at Taper Course
71.15	Running Board Bracket	1	712-C-5064	Plate, Forging Sketch 712-C-5064, L. S. Frame at Dome Course
71.16	Running Board Bracket	1	712-A-5066	Plate and Angles, Furnish Complete, Right Side of Cab
71.17	Running Board Bracket	1	712-A-5067	Plate and Angles, Furnish Complete, R. Side Cab Door at Front
71.18	Running Board Bracket	1	713-C-5048	Plate and Angles, Furnish Complete, R. Side Cab Door at Rear
71.19	Running Board Bracket	1	713-D-5048	Plate & Ang., R. Side Fuel Bunk at Reverse Gear
71.20	Running Board Bracket	1	713-A-5048	Plate & Ang., Forging Sketch 713-A-5048, R. S. Rear Fuel Bunk
71.21	Running Board Bracket	1	713-B-5048	Plate, Forging Sketch 713-B-5048, L. Side Rear Fuel Bunk

<b>Group - 72: Rods, Connecting and Stubs</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
72.01	Connecting Rod	3	723-A-5012	Forging Sketch 72-A-5001
72.02	Conn. Rod Brass, Crosshead End	3	722-A-5026	Top, Babbited, Cast Brass, Pattern 72-349
72.03	Conn. Rod Brass, Crosshead End	3	722-A-5026	Bottom, Babbited, Cast Brass, Pattern 72-349
72.04	Connecting Rod Brass, Crank Top	3	722-A-5025	Babbited, Cast Brass, Pattern 72-348
72.05	Connecting Rod Brass, Crank Bottom	3	722-A-5025	Babbited, Cast Brass, Pattern 72-348
72.06	Connecting Rod Wedge and Strap Bolts	3 Sets	723-A-5012	Steel, Forging Sketch 723-A-5012
72.07	Connecting Rod Strap	3	723-A-5012	Forging Sketch 72-A-5032
72.08	Connecting Rod Wedge - Top	3	723-A-5012	Forging Sketch 89-F-3
72.09	Connecting Rod Wedge - Bottom	3	723-A-5012	Forging Sketch 89-F-2
72.10	Connecting Rod Wedge - Top Wedge	3	723-A-5012	Steel, 3 1/4" Diameter x 4 1/8" Long Finish Size
72.11	Connecting Rod Wedge Liner - Top	3	723-A-5012	3/8" x 3 7/8" x 4 3/8" Finish Size
72.12	Connecting Rod Wedge Liner - Bottom	3	723-A-5012	1/2" x 4 1/2" x 7 1/2" Finish Size
72.13	Connecting Rod Wedge Liner Washer	6	723-A-5012	4" Diameter x 1 1/4" Finish Size



<b>Group - 73: Sand Box, Sanders and Rigging</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
73.01	Sand Box Material Order	1 Set	73-MO-5000	
73.02	Sand Box Lid	1	732-A-27	Cast Iron, Pattern 73-130
73.03	Sand Box Valve	2	732-A-5001	Cast Iron, Pattern 73-90
73.04	Sand Box Lever - Short	1	732-A-5004	Cast Iron, Pattern 73-20
73.05	Sand Box Lever - Long	1	732-A-5044	Forging Sketch 732-A-5044
73.06	Sand Box Rod Handle	1	732-A-5027	Cast Iron, Pattern 73-6
73.07	Sand Box Rigging Links	2	737-A-5002	1/4" x 2" x 25" Rounded Ends
73.08	Sand Box Rod	1		3/8" I Pipe Length to Suit Erection Shop
73.09	Air Sander	4	106-B	USMP Co. #106-B, Leach Single Type D-2
73.10	Air Sander Nopzzle	4	106-B	USMP Co. #106-B, Leach Single Type D-2
73.11	Sand Box Rod Jaw	1	732-J-28	Forging Sketch 732-J-28
73.12	Sand Box Rod Jaw Pin	1	152-A-5007	No. 7, Furnish Rivet and Cotter
73.13	Sand Box Rigging Link Pin	2	152-A-5007	No. 6, Furnish Rivet and Cotter
73.14	Back Sand Box Arrangement	1 Set	732-D-5032	Plate
73.15	Back Sand Box Base	2	732-A-5025	Cast Iron, Pattern 73-5
73.16	Back Sand Box Top	2	732-A-5024	Cast Iron, Pattern 73-314
73.17	Back Sand Box Covers	2	732-A-5024	Cast Iron, Pattern 73-12
73.18	Back Sand Box Trap Plates	2	732-D-5032	Bar Stock, 1/2" x 2 1/2" x 7 1/2"
73.19	Sand Box Top Front	1	733-A-5021	Welded Construction, Furnish and Apply Angle Lugs on Sides
73.20	Sand Box Top Eyebolts	2	733-A-5021	Thread Eyebolt and Furnish Nuts, Forging Sketch 73-A-8
73.21	Sand Box Top Lid Chain	1 Set	733-A-5021	#0 Bull Dog, Attach Chain to Eyebolts
73.22	Sand Box Top Base Front	1	737-A-5002	Welded Construction, Furnish Complete
73.23	Sand Box Top Base Lugs	1 Set	737-A-5002	Plate, Make to Suit and Weld On in Erection Shop
73.24	Sand Box Top Brace	2	732-A-5043	Drill Holes in Sand Box to Suit, Forging Sketch 732-A-5043
73.25	Sand Box Top Base Washers	2	732-H-10	2 1/8", Cast Iron, Pattern 73-96
73.26	Sand Box Top Base Washers	2	732-P-10	2 3/4", Cast Iron, Pattern 73-389

<b>Group - 74: Shafts, Crank, Line, Square, Counterbalance, Coupling</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
74.01	Coupling Ring - Front	1	743-A-5142	Cast Steel, Pattern 74-958
74.02	Coupling Ring Half - Front	1	743-B-5142	Sawed in Half, Cast Steel, Pattern 74-959
74.03	Coupling Ring Bushing - Front	4	742-A-5462	Cast Brass, Pattern 74-960
74.04	Coupling Ring Grease Plug - Front	4	742-B-5389	Steel

<b>Group - 74: Shafts, Crank, Line, Square, Counterbalance, Coupling (Continued)</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
74.05	Coupling Ring - No. 2	2	743-A-5142	Cast Steel, Pattern 74-958
74.06	Coupling Ring Half - No. 2	2	743-B-5142	Sawed in Half, Cast Steel, Pattern 74-959
74.07	Coupling Ring Bushing - No. 2	8	742-A-5462	Cast Brass, Pattern 74-960
74.08	Coupling Ring Grease Plug - No. 2	8	742-B-5389	On Crank, Steel
74.09	Coupling Ring - On Crank	2	743-A-5142	Cast Steel, Pattern 74-958
74.10	Coupling Ring Half - On Crank	2	743-B-5142	Sawed in Half, Cast Steel, Pattern 74-959
74.11	Coupling Ring Bushing - On Crank	8	742-A-5462	Cast Brass, Pattern 74-960
74.12	Coupling Ring Grease Plug - On Crank	8	742-B-5389	On Crank, Steel
74.13	Coupling Ring - Rear	1	743-A-5142	Cast Steel, Pattern 74-958
74.14	Coupling Ring Half - Rear	1	743-B-5142	Sawed in Half, Cast Steel, Pattern 74-959
74.15	Coupling Ring Bushing - Rear	4	742-A-5462	Cast Brass, Pattern 74-960
74.16	Coupling Ring Grease Plug - Rear	4	742-B-5389	Steel
74.17	Coupling Ring Bolts	48	742-H-5320	Steel, Furnish Nuts
74.18	Crankshaft	1	745-A-5023	Forging Sketch 74-A-5028
74.19	Counterbalance Weight	1	743-A-5032	Cast Iron, Pattern 74-713
74.20	Counterbalance Weight	1	743-A-5032	Cast Iron, Pattern 74-714
74.21	Counterbalance Weight	1	743-A-5032	Cast Iron, Pattern 74-715
74.22	Counterbalance Weight	1	743-A-5032	Cast Iron, Pattern 74-716
74.23	Counterbalance Yoke	2	742-A-5174	Forging Sketch 74-A-5001
74.24	Counterbalance Yoke	2	742-A-5174	Forging Sketch 74-A-5002
74.25	Horn Coupling Crank - Both Ends	2	742-C-5292	Cast Steel, Pattern 74-490
74.26	Line Shaft - Front Truck	1	743-A-5144	6 9/16" Diameter x 110" Long Finish Size, Furnish Keys
74.27	Line Shaft - 2nd Truck	1	743-A-5144	6 9/16" Diameter x 117" Long Finish Size, Furnish Keys
74.28	Line Shaft - Rear Truck	1	743-A-5144	6 9/16" Diameter x 107 3/8" Long Finish Size, Furnish Keys
74.29	Line Shaft Bearing, Outside - F. Truck	2	742-B-5151	Cast Brass, Pattern 74-825-A
74.30	Line Shaft Bearing, Inside - Front Truck	2	742-B-5151	Cast Brass, Pattern 74-825-A
74.31	Line Shaft Bearing, Outside - 2nd Truck	2	742-B-5151	Cast Brass, Pattern 74-825-A
74.32	Line Shaft Bearing, Inside - 2nd Truck	2	742-B-5151	Cast Brass, Pattern 74-825-A
74.33	Line Shaft Bearing, Outside - R. Truck	2	742-B-5151	Cast Brass, Pattern 74-825-A
74.34	Line Shaft Bearing, Inside - Rear Truck	2	742-B-5151	Cast Brass, Pattern 74-825-A
74.35	Line Shaft Bearing, Plate - Front Truck	2	742-A-5153	Cast Iron, Pattern 74-827
74.36	Line Shaft Bearing, Plate - Rear Truck	2	742-A-5153	Cast Iron, Pattern 74-827
74.37	Line Shaft Bearing, Plate - 2nd Truck	2	742-A-5153	Cast Iron, Pattern 74-827

<b>Group - 74: Shafts, Crank, Line, Square, Counterbalance, Coupling (Continued)</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
74.38	Line Shaft Collar	5	742-A-5019	Cast Steel, Pattern 74-686
74.39	Line Shaft Collar	6	742-C-5020	Cast Steel, Pattern 74-824
74.40	Line Shaft Collar	1	742-C-5019	Cast Steel, Pattern 74-217
74.41	Line Shaft Coupling - Front Truck	1	742-B-5461	Cast Steel, Pattern 74-578-A
74.42	Line Shaft Coupling - 2nd Truck	1	742-B-5461	Cast Steel, Pattern 74-578-A
74.43	Line Shaft Coupling - Rear Truck	1	742-B-5461	Cast Steel, Pattern 74-578-A
74.44	Line Shaft Coupling Pinion	6	742-C-5236	Cast Steel, Pattern 74-851-B
74.45	Line Shaft Washer	12	742-D-5023	Cast Iron, Pattern 74-700
74.46	Gear Rim	6	743-A05052	Cast Steel, Pattern 74-852
74.47	Gear Rim Bolt	60	742-A-5172	Steel, Furnish Nuts and Cotters
74.48	Square Shaft - Front	1	742-A-5466	Cast Steel, Pattern 74-692
74.49	Square Shaft - Back	1	742-A-5464	Cast Steel, Pattern 74-320
74.50	Square Shaft - Center	1	742-A-5466	Cast Steel, Pattern 74-692
74.51	Square Shaft Sleeve - Front	1	743-B-5143	Cast Steel, Pattern 74-569
74.52	Square Shaft Sleeve - 2nd	1	743-B-5143	Cast Steel, Pattern 74-568
74.53	Square Shaft Sleeve - Rear	1	743-B-5143	Cast Steel, Pattern 74-569

<b>Group - 75: Smoke Box Arrangement, Front and Door, Smoke Stack</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
75.01	Smoke Box Arrangement	1 Set	817-A-5000	Apply Netting at Front, 2 1/2" x 2 1/2" #12
75.02	Smoke Box Table Plate	1	817-A-5000	
75.03	Smoke Box Table Plate Back Angle	1	817-A-5000	Forging Sketch 75-B-258
75.04	Smoke Box Material Order	1 Set	75-MO-5002	
75.05	Smoke Box Table Plate Front Angle	1	817-A-5000	Forging Sketch 75-C-309
75.06	Smoke Box Draft Plate - Fixed	1	752-C-238	
75.07	Smoke Box Draft Plate - Adjust	1	752-D-238	
75.08	Smoke Box Draft Plate Angle	1	817-A-5000	Forging Sketch 75-B-32
75.09	Netting Frame - Outside	1	817-A-5000	Forging Sketch 75-C-228
75.10	Netting Frame - Inside	1	817-A-5000	Forging Sketch 75-C-313

<b>Group - 75: Smoke Box Arrangement, Front and Door, Smoke Stack (Continued)</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
75.11	Netting Frame Angle	1	817-A-5000	Forging Sketch 75-F-185
75.12	Netting Frame Key Studs	10	752-E-234	Forging Sketch 752-E-234
75.13	Cleaning Hole Flange	2	752-A-5054	Cast Iron, Pattern 75-61
75.14	Cleaning Hole Cover	2	752-A-5055	Cast Iron, Pattern 75-66, Furnish Chain
75.15	Smoke Box Liner Brackets	4	752-A-5101	Steel, Forging Sketch 752-A-5101
75.16	Smoke Box Brace - Right	1	752-A-5104	Forging Sketch 752-A-5104
75.17	Smoke Box Brace - Left	1	752-A-5104	Forging Sketch 752-A-5104
75.18	Smoke Box Brace Pad	2	752-C-5047	On Smoke Box, Cast Steel, Pattern 75-10
75.19	Smoke Box Brace Pin	2	752-B-5104	On Smoke Box, Steel
75.20	Smoke Box Brace Washer	2	752-D-5104	Steel
75.21	Smoke Box Front	1	753-A-5050	
75.22	Smoke Box Front Door	1	753-A-5050	
75.23	Smoke Box Front Liner	2	A-12982	Line 3, Cast Iron, Pattern 75-398
75.24	Smoke Box Door Liner	1	3089	Cast Iron, Pattern 75-48
75.25	Smoke Box Door Buttons	15	752-A-5079	Cast Iron, Pattern 75-455
75.26	Smoke Box Door Hinge	1	752-A-5079	Forging Sketch 75-A-5000
75.27	Smoke Box Door Hinge	1	752-A-5079	Forging Sketch 75-A-5003
75.28	Smoke Box Door Hinge Pin	2		3/4" Diam. x 3 1/4" Long, Steel Rivet, Drill for 3/16" Cotter to Suit
75.29	Smoke Box Door Hinge Lug - Top	1	752-A-5079	Cast Steel, Pattern 75-25
75.30	Smoke Box Door Hinge Lug - Bottom	1	752-A-5079	Cast Steel, Pattern 75-26
75.31	Smoke Box Brace Assembly	1R, 1L	753-A-5049	
75.32	Smoke Stack	1	753-A-5036	Cast Iron, Pattern 75-12

<b>Group - 76: Springs</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
76.01	Truck Bolster Springs	96	762-A-5003	

<b>Group - 78: Steam Gauge, Safety Valve and Turrets</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
78.01	Steam Gauge	1	1146	Ashcroft #1146, 6 3/4" Iron Case, Pt. #A2-1637
78.02	Safety Valve	2	78-B	Ashton #78-B, 3" Open Type - FC
78.03	Safety Valve Elbow Joint Ring	1	782-A-21	Cast Steam Metal, Pattern 78-117
78.04	Safety Valve Elbow	1	782-A-21	Cast Steel, Pattern 78-116
78.05	Turret Casing - Complete	1	783-A-5008	Plate and Angles, Furnish Complete with Hinges and Hasp
78.06	Turret Casing Washers	4	542-B-272	2 1/2", Cast Iron, Pattern 53-111
78.07	Safety Valve Ext. Bushing	2	782-A-5016	Cast Steam Metal, Pattern 78-412
78.08	Turret	1	783-D-44	Cast Steel, Pattern 78-296
78.09	Turret Ball Joint - At Boiler	1	782-A-5014	Cast Steam Metal, Pattern 78-499
78.10	Turret Stuffing Box Gland	1	782-B-137	Cast Steam Metal, Pattern 78-399
78.11	Turret Stuffing Box Nut	1	782-B-137	Cast Steam Metal, Pattern 78-298
78.12	Turret Stuffing Box Follower Yoke	1	782-B-137	Cast Steam Metal, Pattern 78-297
78.13	Turret Master Valve	1	782-C-138	Cast Steam Metal, Pattern 78-300
78.14	Turret Master Valve Nut	1	782-C-138	Furnish 3/16" Brass Pin, Cast Steam Metal, Pattern 78-301
78.15	Turret Master Valve Stem	1	782-C-138	Steel
78.16	Turret Master Valve Hand Wheel	1	263-A-1	Cast Steel, Pattern 26-65
78.17	Turret Dry Pipe and Elbow	1	782-A-5015	3" Ex. Hy. Pipe, Clamp to Suit

<b>Group - 79: Steam Pipes and Tee Heads</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
79.01	Steam Pipe Manifold	1 Set	794-A-5001	Welded
79.02	Steam Pipe Manifold Rear Section	1	794-A-5001	Cast Steel, Pattern 79-1084
79.03	Steam Pipe Manifold Center Section	1	794-A-5001	Cast Steel, Pattern 79-1085
79.04	Steam Pipe Manifold Front Section	1	794-A-5001	Cast Steel, Pattern 79-1086
79.05	Steam Pipe Flange	1	792-A-5078	Cast Steel, Pattern 79-1089
79.06	Steam Pipes	1	792-A-5078	8" Extra Heavy Pipe
79.07	Steam Pipe Slip Joint	1	792-A-5077	Cast Steel, Pattern 79-1087
79.08	Steam Pipe Slip Joint Gland	1	792-A-5077	Apply 3/4" Asbestos Rope, Cast Iron, Pattern 79-1088
79.09	Steam Pipe Elbow - At Smoke Box	1	793-A-5014	Cast Steel, Pattern 79-646-A

<b>Group - 79: Steam Pipes and Tee Heads (Continued)</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
79.10	Steam Pipe Elbow Support	1	792-A-5079	Forging Sketch 792-A-5079
79.11	Steam Pipe Joint Ring	1	792-B-110	Between Elbow & St. Pipe Flange, Cast Iron, Pattern 79-405
79.12	Steam Pipe Joint Ring	1	792-Y-110	Manifold and Slip Joint, Cast Iron, Pattern 79-932
79.13	Steam Pipe Joint Ring	1	792-R-99	#3 Cylinder, Cast Iron, Pattern 79-115
79.14	Steam Pipe Joint Ring	1	792-P-105	Between Superheater and Elbow, Cast Iron, Pattern 79-974
79.15	Steam Pipe Joint Ring	2	792-J-100	#1 and #2 Cylinder, Cast Iron, Pattern 79-115
79.16	Steam Pipe Casing - On Smoke Box	2	793-A-5001	2 Halves, Cast Iron, Pattern 79-647
79.17	Steam Pipe Packing	1 Set		3/4" Asbestos Rope Packing

<b>Group - 80: Stoker and Details, Engine and Tender</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>

<b>Group - 81: Superheater, Header and Details</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
81.01	Superheater Header Drilling	1	813-A-5022	
81.02	Superheater Arrangement	1 Set	817-A-5000	
81.03	Superheater Header Drilling	1	11052-A	Superheater Co.
81.04	Superheater Header Support	1R, 1L	812-D-5012	Plate, Forging Sketch 812-D-5012
81.05	Superheater Header Joint Ring	1	792-L-105	At Dry Pipe, Cast Iron, Pattern 79-113
81.06	Superheater Unit Joint Shield	1	812-A-5024	
81.07	Superheater Deflecting Plates	1 Set	817-A-5000	
81.08	Superheater Deflecting Plate Angles	1 Set	817-A-5000	Angle, Forging Sketch 817-A-5000
81.09	Superheater Damper	1	2L-11422-R	Superheater Co., Furnished with Superheater
81.10	Superheater Damper Cylinder	1	4L-11436-A	Superheater Co.
81.11	Superheater Damper Cylinder Arm	1	1599	Superheater Co., Furnished with Superheater

<b>Group - 81: Superheater, Header and Details (Continued)</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
81.12	Superheater Damper Cylinder Support	1	2L-11073-M	Superheater Co.
81.13	Superheater Damper Arm	1	1246-B	Superheater Co., Furnished with Superheater
81.14	Superheater Damper Shaft	1	10877-J	Superheater Co., Furnished with Superheater
81.15	Superheater Damper Shaft Bearing	1	2L-10345-E	Right Side, Superheater Co., Furnished with Superheater
81.16	Superheater Damper Shaft Bearing	1	1L-10386-P	Left Side, Superheater Co., Furnished with Superheater
81.17	Superheater Damper Shaft Pin	1		Superheater Co., Furnished with Superheater
81.18	Superheater Damper Shaft Pin	2		Superheater Co., Furnished with Superheater
81.19	Superheater Damper Shaft Link	1	10346-D	Superheater Co., Furnished with Superheater
81.20	Superheater Damper Counterweight	1	21-1067	Superheater Co., Furnished with Superheater
81.21	Superheater Damper Hinge	1	2L-11422-R	Superheater Co., Furnished with Superheater
81.22	Superheater Deflector Handle	6	752-A-79	Furnish Nuts and Washers, Forging Sketch 75-A-139
81.23	Superheater Deflector Clamp	6	940-D-177	Steel, Forging Sketch 940-D-177
81.24	Superheater Deflector Plate Stud	9	812-A-51	Steel, Forging Sketch 812-A-51

<b>Group - 82: Tank Valves, Oil and Water, Handle, Well, Goose Neck, Strainer, Hose</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
82.01	Tank Valve - Water Arrangement	2 Sets	823-A-5008	Furnish Gaskets, Nuts, Cotters, etc.
82.02	Tank Valve Body	2	823-A-5008	Cast Iron, Pattern 82-139
82.03	Tank Valve Body Plate	2	823-A-5008	Cast Iron, Pattern 82-142
82.04	Tank Valve Bottom Plate	2	823-A-5008	Cast Iron, Pattern 82-140
82.05	Tank Valve Top Plate	2	823-A-5008	Cast Iron, Pattern 82-144
82.06	Tank Valve Cap	2	823-A-5008	Cast Iron, Pattern 82-146
82.07	Tank Valve Seat	2	823-A-5008	Cast Brass, Pattern 82-143
82.08	Tank Valve Stem	2	A-15147	Steel, Style #1, Forging Sketch 82-A-5003
82.09	Tank Valve Stem Nut	2	823-A-5008	Cast Iron, Pattern 82-145
82.10	Tank Valve Stem Handle	2	823-A-5006	Cast Iron, Pattern 82-14
82.11	Tank Valve Stem Clamp Nut	2	823-A-5006	Cast Iron, Pattern 82-15
82.12	Tank Valve Strainer	2	823-A-5008	Brass Wire Netting
82.13	Tank Valve	2	823-A-5008	Cast Brass, Pattern 82-141

Group - 83: Tank, Engine				
Item	Drawing Title	Quantity	Drawing Number	Construction Notes
83.01	Fuel Bunk Material Order	1 Set	83-MO-5001-A	
83.02	Fuel Bunk	1	837-A-5000	Plate
83.03	Fuel Bunk Tie Rod	2	837-A-5000	Forging Sketch 151-F-105
83.04	Fuel Bunk Coal Gate Boards	6	837-A-5000	Wood

Group - 85: Tender Frames				
Item	Drawing Title	Quantity	Drawing Number	Construction Notes
85.01	Tender Frame Material Order	1 Set	85-MO-5001	
85.02	Tender Frame Rivet Material Order	1 Set	85-MO-5002	
85.03	Tender Frame - Complete	1	858-A-5000	Built Up Construction Riveted and Welded
85.04	Tender Frame Flooring	1 Set	858-A-5000	Wood
85.05	Tender Frame Floor Angle	1 Set	858-A-5000	
85.06	Tender Frame Angle	2R, 2L	858-A-5000	Forging Sketch 85-A-5000
85.07	Tender Frame Angle	4	858-A-5000	5/8" x 6" x 6" Angle x 9 1/2" Long
85.08	Tender Frame Angle	2	858-A-5000	5/8" x 6" x 6" Angle x 23" Long
85.09	Tender Frame Angle	1R, 1L	858-A-5000	Forging Sketch 85-A-5003
85.10	Tender Frame Channel - Rear End	1	858-A-5000	
85.11	Tender Frame Brace	2	852-A-5004	Forging Sketch 852-A-5004
85.12	Tender Frame Corner Knee	1R, 1L	852-A-5007	Forging Sketch 852-A-5007, Furnish Complete
85.13	Tender Frame Floor Clips	24	852-B-38	Cast Iron, Pattern 85-4
85.14	Frame Center Plate - Complete	1	852-A-5006	Welded Construction, Forging Sketch 852-A-5006
85.15	Frame End Casting	1	853-B-5005	Cast Steel, Pattern 85-110
85.16	Frame End Timber Brace	2	852-A-5005	Cast Steel, Pattern 48-3
85.17	Frame Side bearings	2	858-A-5000	2 1/2" x 6" x 18 3/4" Long



<b>Group - 87: Tender Deck, Tool Box</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>

<b>Group - 88: Tender Tank, Water and Oil, Filling Hole, Tank Funnel</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
88.01	Tank Water	1 Set	884-A-5007	Plate
88.02	Tank Material Bill	1 Set	88-MO-5075	
88.03	Tank Funnel	1	882-A-5011	Plate, Furnish Bolt, Nut, and Cotter
88.04	Tank Funnel Lid	1	882-A-5011	Plate
88.05	Tank Funnel Hinge	2	882-A-5011	Forging Sketch 151-F-97
88.06	Tank Funnel Handle	1	882-A-5011	Forging Sketch 151-F-98
88.07	Tank Funnel Lug	2	884-A-5007	Forging Sketch 88-A-36
88.08	Tank Funnel Handle Lug	2	884-A-5007	Forging Sketch 88-A-5007
88.09	Tank Funnel Hinge Lug	1R, 1L	882-A-5011	Forging Sketch 151-F-96
88.10	Tank Rings	2	882-A-5011	Forging Sketch 88-B-5001
88.11	Tank Headlight Bracket	1	884-A-5007	Forging Sketch 884-A-5007
88.12	Tank Ladder - Complete	1	882-A-5010	Sides Forged R. and L., Furn. Rings, Forging Sketch 882-A-5010
88.13	Tank Shoveling Sheet - Front or Back	2	884-A-5008	Plate, 1 Front and 1 Back
88.14	Tank Shoveling Sheet Angles and Tee	1 Set	884-A-5008	Angles To Be Drilled to Suit Frame and Riveted to Frame

<b>Group - 91: Throttle and Dry Pipe, Lever Support, Sleeves</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
91.01	Throttle Arrangement - In Dome	1 Set	913-A-5036	
91.02	Throttle Valve	1	912-A-5044	Cast Iron, Pattern 91-155
91.03	Throttle Case	1	913-A-5015	Cast Iron, Pattern 91-171-A
91.04	Throttle Valve Stem	1	912-E-5008	Forging Sketch 912-E-5008
91.05	Throttle Valve Stem Pin	2	152-A-5007	Line 5, Steel Rivet, Furnish Cotter

<b>Group - 91: Throttle and Dry Pipe, Lever Support, Sleeves (Continued)</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
91.06	Throttle Pipe Joint Ring	1	792-J-123	Cast Iron, Pattern 79-137
91.07	Throttle Bell Crank	1	B-12143	Forging Sketch B-12143
91.08	Throttle Bell Crank Fulcrum Pin	1	152-A-5007	Line 4, Steel Rivet, Furnish Cotter
91.09	Throttle Pipe Support	1	913-A-5036	5/8" x 2 1/2" x 21" Long, Drill to Suit
91.10	Throttle Pipe Yoke	1	913-A-5036	Forging Sketch 91-B-5005
91.11	Throttle Pipe Bracket	1	913-A-5036	Forging Sketch 91-A-5003, Drill to Suit
91.12	Throttle Pipe Bracket	1	913-A-5036	Forging Sketch 91-A-5004, Drill to Suit
91.13	Throttle Stuffing Box	1	912-A-5050	Cast Iron, Pattern 91-14
91.14	Throttle Stuffing Box Gland	1	912-A-5050	Cast Iron, Pattern 91-155
91.15	Throttle Stuffing Box Flange	1	912-A-5088	Cast Brass, Pattern 91-152, Install Before Boiler Bracing & Stays
91.16	Throttle Rod Packing	1 Set	R-32	J.M. Co. Style R-32
91.17	Throttle Lever Boss on Backhead	1	912-A-5103	1020 Steel
91.18	Throttle Lever Spring	1	913-E-5018	
91.19	Throttle Lever	1	913-E-5018	Forging Sketch 91-E-5029, Furnish Bolts, Nuts, and Dowels
91.20	Throttle Lever Handle	1	682-E-173	Cast Brass, Pattern 68-3A, Furnish Pin, etc.
91.21	Throttle Lever Latch	1	913-E-5018	Steel, 3/4" x 2 1/8" x 5 1/4" Finish Size
91.22	Throttle Lever Latch Rod	1	913-E-5018	Forging Sketch 121-F-168
91.23	Throttle Lever Links	1	912-A-5104	Forging Sketch 912-A-5104, Machine to Suit Erection Shop
91.24	Throttle Lever Quadrant	1	912-A-5102	Cast Steel, Pattern 91-21
91.25	Throttle Lever Fulcrum	1	913-E-5018	Forging Sketch 91-D-5030
91.26	Throttle Lever Rod Key	1	913-E-5018	Steel, 1/4" x 7/8" x 3" Long Finish Size
91.27	Throttle Lever Rod	1	913-E-5018	Brass Sleeve, Forging Sketch 913-E-5018, Length to Suit, Weld
91.28	Throttle Lever Support	1	912-A-5105	Forging Sketch 912-A-5105
91.29	Dry Pipe	1	912-A-5045	Furnish Rivets
91.30	Dry Pipe End Front	1	912-A-5045	Cast Iron, Pattern 91-59
91.31	Dry Pipe Support	1	912-A-5046	Forging Sketch 91-A-5022
91.32	Dry Pipe Support Clamp	1	912-A-5046	Forging Sketch 91-A-5023
91.33	Dry Pipe Sleeves	2	912-A-5045	Copper
91.34	Dry Pipe Elbow Rear	1	912-A-5045	Cast iron, Pattern 91-190

Group - 92: Tools				
Item	Drawing Title	Quantity	Drawing Number	Construction Notes
92.01	Equipment List	1 Set	923-A-5011	
92.02	Brake Shoes	1	202-A-5227	Cast Iron, Pattern 20-438
92.03	Chisel - Cape	1		Tool Set, Forging Sketch 131-F-6
92.04	Chisel - Flat	1		Tool Set, Forging Sketch 131-F-7
92.05	Hammer - Soft	1	13102	Wood Handle, Cast Copper, Pattern 92-16
92.06	Jack Screw	2	922-A-5007	
92.07	Jack Screw Cap	2	922-A-5007	Cast Iron, Pattern 92-6
92.08	Jack Screw Base	2	922-A-5007	Cast Iron, Pattern 92-3
92.09	Jack Screw	1	922-A-5006	
92.10	Jack Screw Cap	1	922-A-5006	Cast Iron, Pattern 92-8
92.11	Jack Screw Base	1	922-A-5006	Cast Iron, Pattern 92-5
92.12	Journal Brass Truck	1	932-A-5228	Babbited, Cast Brass, Pattern 93-701
92.13	Journal Brass Rod	1		Forging Sketch 131-F-8
92.14	Packing Hook and Spade	1		Forging Sketch 92-A-5007
92.15	Pinch Bar	1		Forging Sketch 92-A-5005
92.16	Jack Bar	1		1" Diameter x 36", High Tensile Steel
92.17	Torch - Complete	1	922-A-216	Furnish Body and Cap, Cast Iron, Pattern 92-15
92.18	Superheater Unit Bolt Wrench	1	922-A-122	Forging Sketch 922-A-122
92.19	Superheater Unit Socket Wrench	1		Forging Sketch 92-A-5008
92.20	Valve Tram	1	7422	Set #2, Forging Sketch 7422
92.21	Ash Hoe - Complete	1	922-A-5010	Forging Sketch 922-A-5010
92.22	Wrench Wrist Pin	1	922-A-145	Forging Sketch 922-A-145
92.23	Clinker Hook	1		Forging Sketch 131-F-12
92.24	Poker	1		Forging Sketch 131-F-22
92.25	Wrecking Frogs - Inside	1	923-A-5005	Cast Steel, Pattern 92-66
92.26	Wrecking Frogs - Outside	1	923-A-5006	Cast Steel, Pattern 92-67
92.27	Coal Pick	1	13101	Wood Handle, Cast Iron, Pattern 92-22

Group - 93: Trucks and Details, Including Boxes and Bearings				
Item	Drawing Title	Quantity	Drawing Number	Construction Notes
93.01	Truck Plan - Front Truck	1 Set	939-A-5002	
93.02	Truck Bolster - Top	3 Sets	933-A-5170	
93.03	Truck Bolster End Separator	6	932-C-5295	Cast Steel, Pattern 93-407
93.04	Truck Bolster Spring Centers	192	A-9548	Line 1, Cast Iron, Pattern 93-53
93.05	Truck Bolster - Bottom	3 Sets	933-A-5170	
93.06	Truck Bolster Bevel Washers	36	932-A-5681	1020 Bar Steel
93.07	Truck Plan - Center Truck	1 Set	939-B-5002	
93.08	Truck Plan - Rear Truck	1 Set	939-C-5002	
93.09	Truck Center Plate	3	932-B-5221	Cast Steel, Pattern 93-697-A
93.10	Truck Side Bearing Base	6	932-C-5247	Cast Steel, Pattern 93-417
93.11	Truck Side Bearing Block - Front Truck	2	932-C-5243	Cast Iron, Pattern 93-80
93.12	Truck Frame - Right	3	933-C-5066	Cast Steel, Pattern 93-698
93.13	Truck Frame - Left	3	933-C-5067	Cast Steel, Pattern 93-704
93.14	Truck Frame Splice	3	933-C-5067	2" x 4 1/2" x 22" Finish Size
93.15	Truck Side Bearing Block - Center Truck	2	932-L-5404	Cast Iron, Pattern 93-81
93.16	Truck Bottom Tie Bar - Right Side	3	932-B-5235	Forging Sketch 932-B-5235
93.17	Truck Bottom Tie Bar - Left Side	3	932-B-5236	Forging Sketch 932-B-5236
93.18	Truck Side Bearing Block - Tender Truck	2	932-P-5243	Cast Iron, Pattern 93-134
93.19	Truck Crosstie Bar - Top	2	932-A-5229	Cast Steel, Pattern 93-703
93.20	Truck Crosstie Bar - Top	4	932-A-5242	Forging Sketch 932-A-5242
93.21	Truck Crosstie Bar - Top Angles	1	932-B-5232	
93.22	Truck Crosstie Bar - Top Angles	1	932-B-5233	
93.23	Truck Crosstie Bar - Top Angles	4	932-A-5242	3/4" x 4" x 4" LS 80 1/4"
93.24	Truck Crosstie Bar - Bottom	6	932-A-5234	1" x 3 1/2" x 56 1/8"
93.25	Truck Crosstie Bar - Center	2	932-B-5240	
93.26	Truck Crosstie Bar - Center	2	932-B-5239	
93.27	Truck Diagonal Braces	2	932-A-5223	Forging Sketch 932-A-5223
93.28	Truck Diagonal Braces	8	932-A-5226	Forging Sketch 932-A-5226
93.29	Truck Equalizer	3	932-A-5224	Steel, Forging Sketch 932-A-5224
93.30	Truck Gear Cover	3	932-A-5682	Plate, Welded Construction, Apply Clips
93.31	Truck Gear Cover	3	932-B-5682	Plate, Welded Construction, Apply Clips
93.32	Truck Gear Cover	3	932-A-5683	Plate, Welded Construction, Apply Clips
93.33	Truck Gear Cover	3	932-B-5683	Plate, Welded Construction, Apply Clips

<b>Group - 93: Trucks and Details, Including Boxes and Bearings (Continued)</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
93.34	Truck Gear Cover Bracket Clamp	12	932-C-5684	Forging Setch 932-C-5684
93.35	Truck Gear Cover Bracket	6	932-A-5684	Plate, Forging Setch 932-A-5684
93.36	Truck Gear Cover Bracket	6	932-B-5684	Plate, Forging Setch 932-B-5684
93.37	Truck King Bolt	3	10153	Set 3, Bar Steel
93.38	Truck King Bolt Key	3	10153	Set 4, Bar Steel, Furnish Cotters
93.39	Truck Safety Chain - F. of Front Truck	2 Sets	932-E-5249	Forging Sketch 932-E-5249, Lima to Furnish Eyebolts and Rings
93.40	Truck Safety Chain - R. of Rear Truck	2 Sets	932-F-5249	Forging Sketch 932-F-5249, Lima to Furnish Eyebolts and Rings
93.41	Truck Safety Chain - L. F. Center Truck	1 Set	932-H-5249	Forging Sketch 932-H-5249, Lima to Furnish Eyebolts and Rings
93.42	Truck Safety Chain - R. F. Center Truck	1 Set	932-J-5249	Forging Sketch 932-J-5249, Lima to Furnish Eyebolts and Rings
93.43	Truck Box - Right	6	933-C-5069	Cast Steel, Pattern 93-695
93.44	Truck Box - R. Cover Plate and Springs	6	933-C-5069	To Suit in Truck Shop
93.45	Truck Box Cap - Right	6	932-B-5222	Cst Steel, Pattern 93-696
93.46	Truck Pedestal	6	933-B-5064	Cast Steel, Pattern 93-694
93.47	Truck Pedestal Cap	6	933-A-5169	Cast Steel, Pattern 93-916
93.48	Truck Pedestal Cap Shim	12		7 1/2" W x 13 1/2" L x Thickness to Suit, 1020 Steel, Drill to Suit
93.49	Truck Box - Inside	6	932-A-5678	Cast Steel, Pattern 93-914
93.50	Truck Box Cap - Inside	6	932-A-5677	Cast Iron, Pattern 93-913
93.51	Truck Inside Box Thrust Plate	6	932-D-5505	Cast Brass, Pattern 93-917
93.52	Truck Journal Brass	12	932-A-5228	Babbited, Cast Brass, Pattern 93-701
93.53	Truck Thrust Plate Wedge	6	933-A-5168	Cast Steel, Pattern 93-915, Furnish Stud and Nut
93.54	Truck Thrust Plate Wedge Nut	6	933-A-5168	Cold Rolled Steel
93.55	Truck Thrust Plate Wedge Bolt	6	932-A-5679	Steel, Furnish Washers, Nuts, and Cotters

<b>Group - 94: Valves, Distribution, Stems, Rods, Crosshead and Packing</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
94.01	Piston Valve	3	943-A-5008	Furnish Keys and Dowels
94.02	Piston Valve Follower	6	943-A-5008	Cast Steel, Pattern 94-419
94.03	Piston Valve Ring Bull Ring	6	943-A-5008	Cast Iron, Pattern 94-421
94.04	Piston Valve Snap Ring	12	943-A-5008	Cast Iron, 94-420

<b>Group - 94: Valves, Distribution, Stems, Rods, Crosshead and Packing (Continued)</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
94.05	Valve Body	3	943-A-5008	Cast Iron, Pattern 94-418
94.06	Valve Stem Crosshead - Right Hand	1R	942-A-5102	No.1 Cylinder, Cast Steel, Pattern 94-442
94.07	Valve Stem Crosshead Guide Bracket	3	942-A-5103	Cast Steel, Pattern 94-423
94.08	Valve Stem	3	942-A-5101	Forging Sketch 942-A-5101, Furnish Nuts, Dowels, etc.
94.09	Valve Stem Crosshead - Left Hand	2L	942-A-5102	No. 2 and 3 Cylinders, Cast Steel, Pattern 94-442
94.10	Valve Stem Crosshead Guide	3R, 3L	942-A-5104	Cast Iron, Pattern 94-425
94.11	Valve Stem Crosshead Guide Plate	3R, 3L	942-A-5104	Cast Iron, Pattern 94-424
94.12	Valve Stem Crosshead Liners	6	942-A-5104	Cold Rolled Steel, 1/8" x 1 3/4" x 11 1/4" Finish Size
94.13	Valve Stem Crosshead Pins	3	See Note	Note: See Group 58 - Link Motion: Link Block Pin, 582-A-5045
94.14	Valve Stem Key Arrangement	1	942-A-5100	
94.15	Valve Stem Key	3	942-A-5100	Steel, 3/8" x 1 1/2" x 4 3/4" Long Finish Size
94.16	Valve Stem Packing	3 Sets	C-2	JM Coil Type C-2, For Superheated Steam
94.17	Packing Rings Stuffing Box			Cast Integral with Piston Valve Head
94.18	Packing Rings Stuffing Box Gland	3	942-A-5105	Cast Iron, Pattern 94-426

<b>Group - 95: Wheels and Tires</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
95.01	Wheel Tire Material Order	12	95-MO-5095	
95.02	Wheel	12	953-A-5014	Cast Steel, Pattern 95-263-B
95.03	Tire	12	952-A-5068	No. 175
95.04	Hub Plate	12	953-A-5014	Cast Brass, Pattern 95-322
95.05	Hub Plate Screws	120	953-A-5014	Stick Brass

<b>Group - 96: Whistle and Rigging</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
96.01	Whistle	1	963-A-1030	Vendor: Nathan
96.02	Whistle Shaft Bracket Left Side	1	962-A-5022	Forging Sketch 962-A-5022, Furnish and Weld on Boss
96.03	Whistle Shaft Bracket Right Side	1	962-B-5022	Forging Sketch 962-B-5022, Furnish and Weld on Boss
96.04	Whistle Rigging Shaft	1	963-A-5002	
96.05	Whistle Rigging Shaft Counterbalance	1	962-D-212	Steel, Forging Sketch 962-D-212
96.06	Whistle Rigging Shaft Arm	1	963-C-54	Cast Iron, Pattern 96-214
96.07	Whistle Lever	1	962-A-275	Steel, Forging Sketch 962-A-275
96.08	Whistle Elbow	1	962-A-5002	Cast Brass, Pattern 96-75
96.09	Whistle Rigging	1 Set	963-A-5002	Apply Bolts and Wood Block to Cab
96.10	Whistle Hand Lever	1	963-A-5002	Steel, Forging Sketch 96-A-73
96.11	Whistle Hand Lever Rope	1 Set	963-A-5002	
96.12	Whistle Rod	1 Set	962-C-212	3/8" I.P., Weld in Jaws
96.13	Whistle Jaws	2	102-F-377	Steel, Forging Sketch 102-F-377
96.14	Whistle Pins	2	963-A-5002	Steel Rivets
96.15	Whistle Rigging Blocks	2	963-A-5002	Wood
96.16	Whistle Rigging Rope Handle	2	963-A-5002	Wood File Handle

<b>Group - 97: Preliminary Designs and Propositions</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>

<b>Group - 98: Clearance and Wheel Base Diagrams</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
98.01	Clearance Diagram	1 Set	981-A-5009	
98.02	Wheel Base Diagram	1 Set	982-A-5005	

<b>Group - 99: Miscellaneous</b>				
<b>Item</b>	<b>Drawing Title</b>	<b>Quantity</b>	<b>Drawing Number</b>	<b>Construction Notes</b>
99.01	Billet List	1 Set	992-A-460	