Atchison, Topeka and Santa Fe steam engine diagrams and blueprints

Section 2, Pages 31 - 60

This folder contains steam locomotive blueprints, showing classifications and specifications for Atchison, Topeka and Santa Fe Railway Company engines. There is an index at the front.

Creator: Atchison, Topeka and Santa Fe Railway Company

Date: 1880-1956

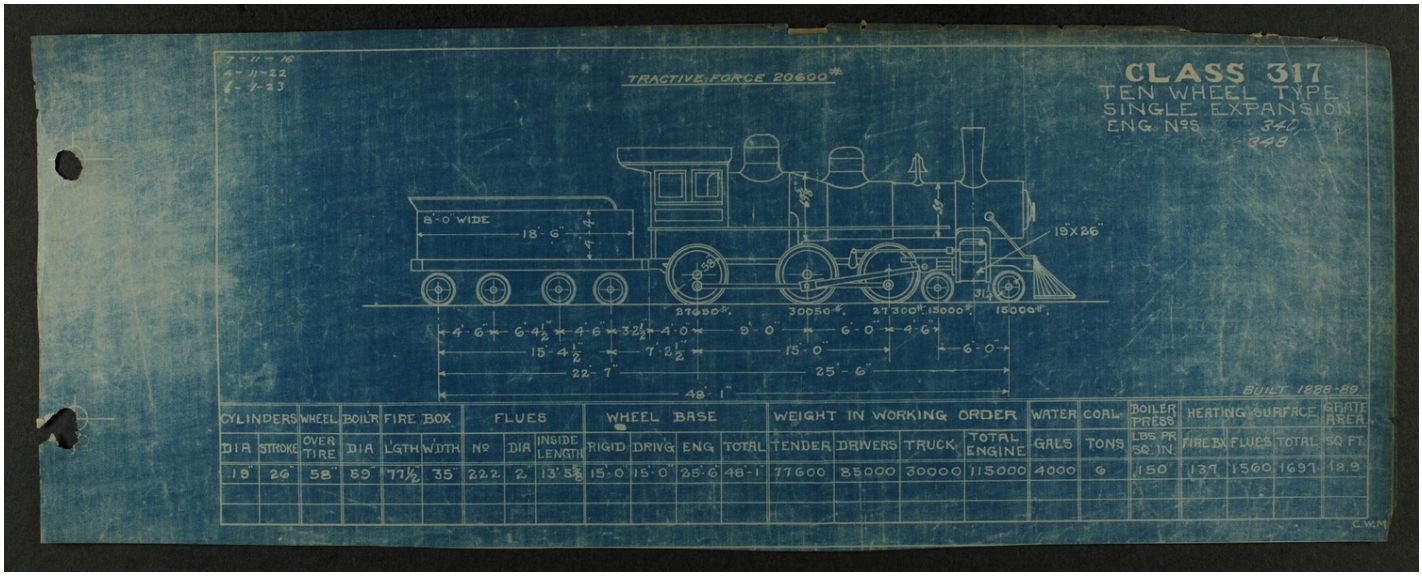
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KSHS Identifier: DaRT ID: 221763

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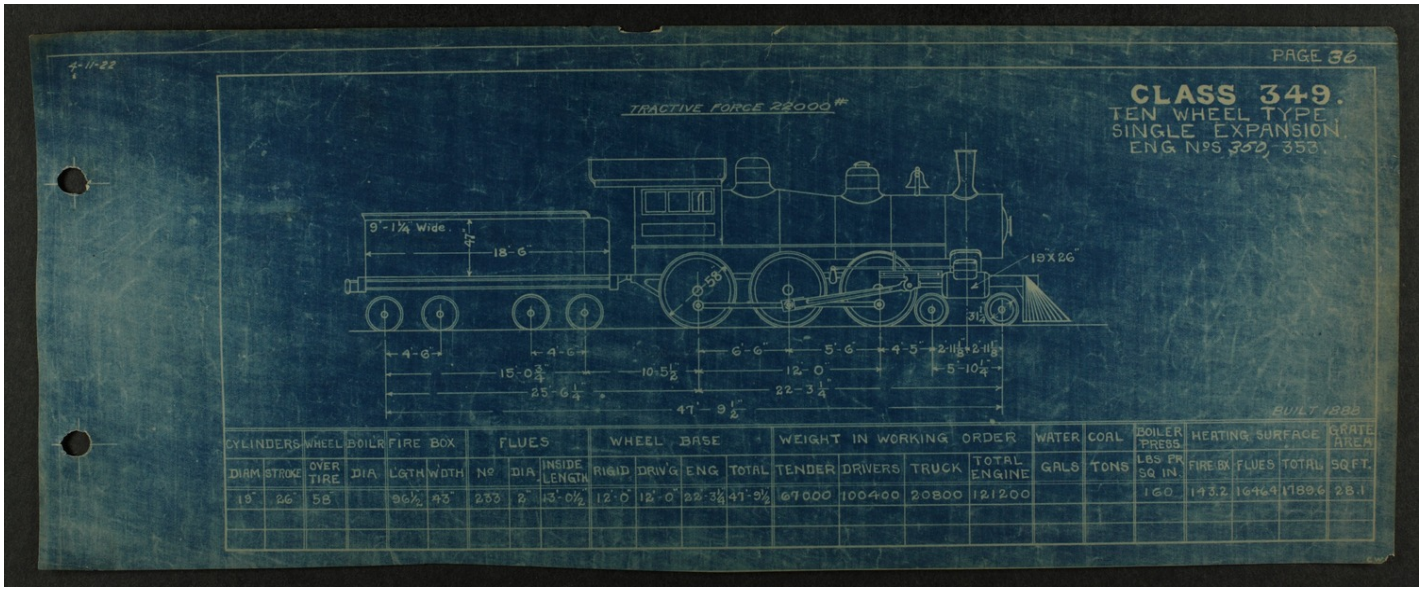
www.kansasmemory.org/item/221763

Atchison, Topeka and Santa Fe steam engine diagrams and blueprints



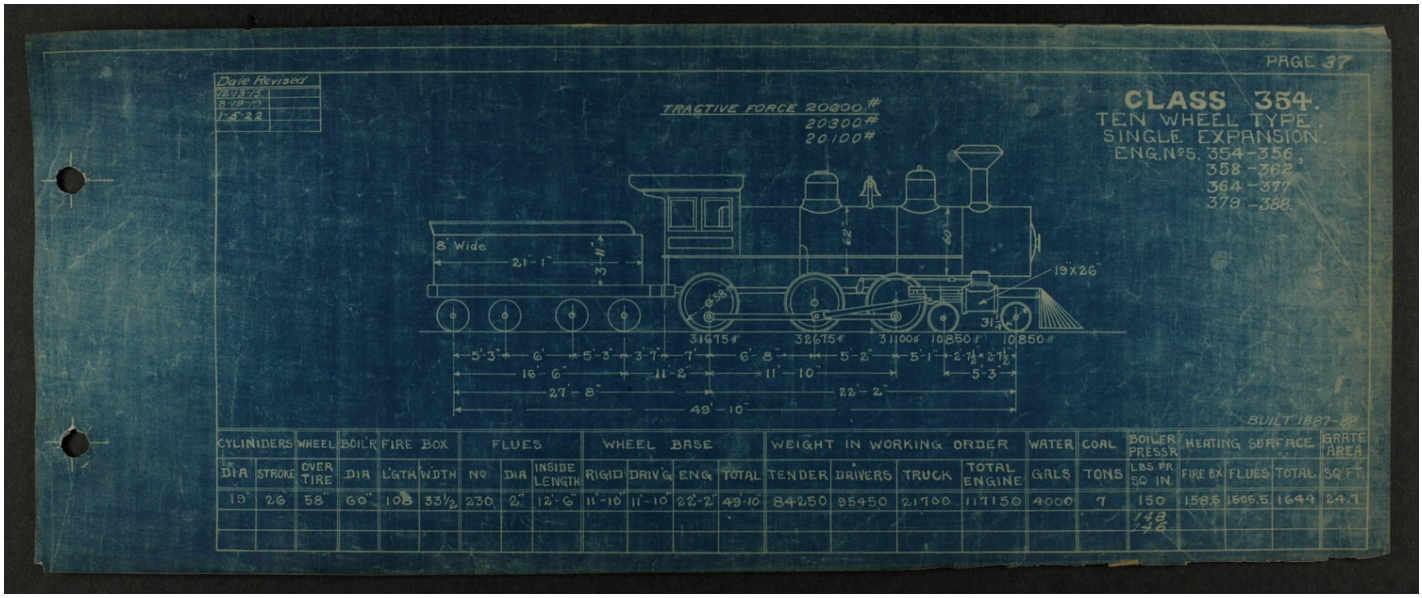
CYLINDERS		WHEEL	BOILR	FIRE BOX		FLUES			WHEEL BASE				WEIGHT IN WORKING ORDER				WATER	COAL	BOILER PRESS	HEATING SURFACE			GRATE AREA
DIA	STROKE	OVER TIRE	DIA	LGTH	WIDTH	Nº	DIA	INSIDE LENGTH	RIGID	DRIVG	ENG	TOTAL	TENDER	DRIVERS	TRUCK	TOTAL ENGINE	GALS	TONS	LBS PR SQ. IN.	FIRE BX	FLUES	TOTAL	SQ FT.
19"	26"	58"	59"	77½"	35"	222	2"	13'5⅝"	15'-0"	15'-0"	25'-6"	48'-1"	77600	85000	30000	115000	4000	6	150	137	1560	1697	18.9

Atchison, Topeka and Santa Fe steam engine diagrams and blueprints



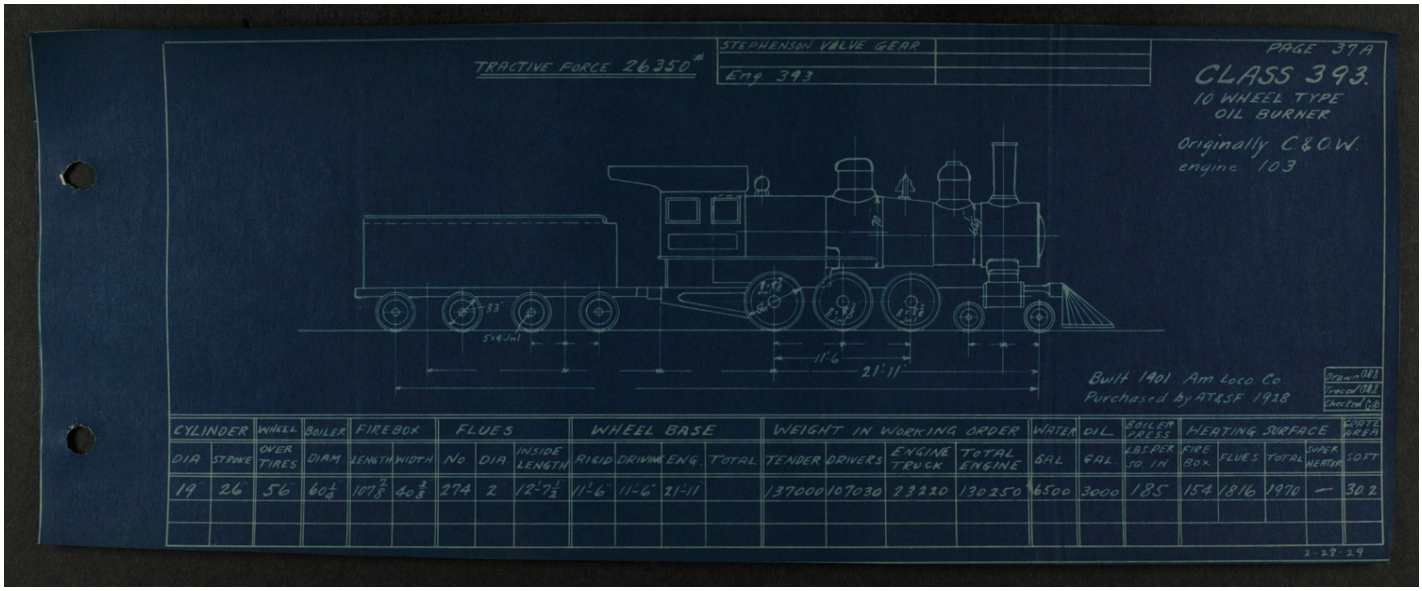
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DIAM	STROKE	OVER TIRE	DIA	LGTH	WDTH	No	DIA	INSIDE LENGTH	RIGID	DRIV'G	ENG	TOTAL	TENDER	DRIVERS	TRUCK	TOTAL ENGINE	GALS	TONS	LBS PR SQ IN.	FIRE BX	FLUES	TOTAL	SQ FT.
18"	26"	58"		96½"	43"	233	2"	13'-0½"	12'-0"	12'-0"	22'-3¼"	47'-9½"	67000	100400	20800	121200			160	193.2	1646.4	1839.6	28.1

Atchison, Topeka and Santa Fe steam engine diagrams and blueprints



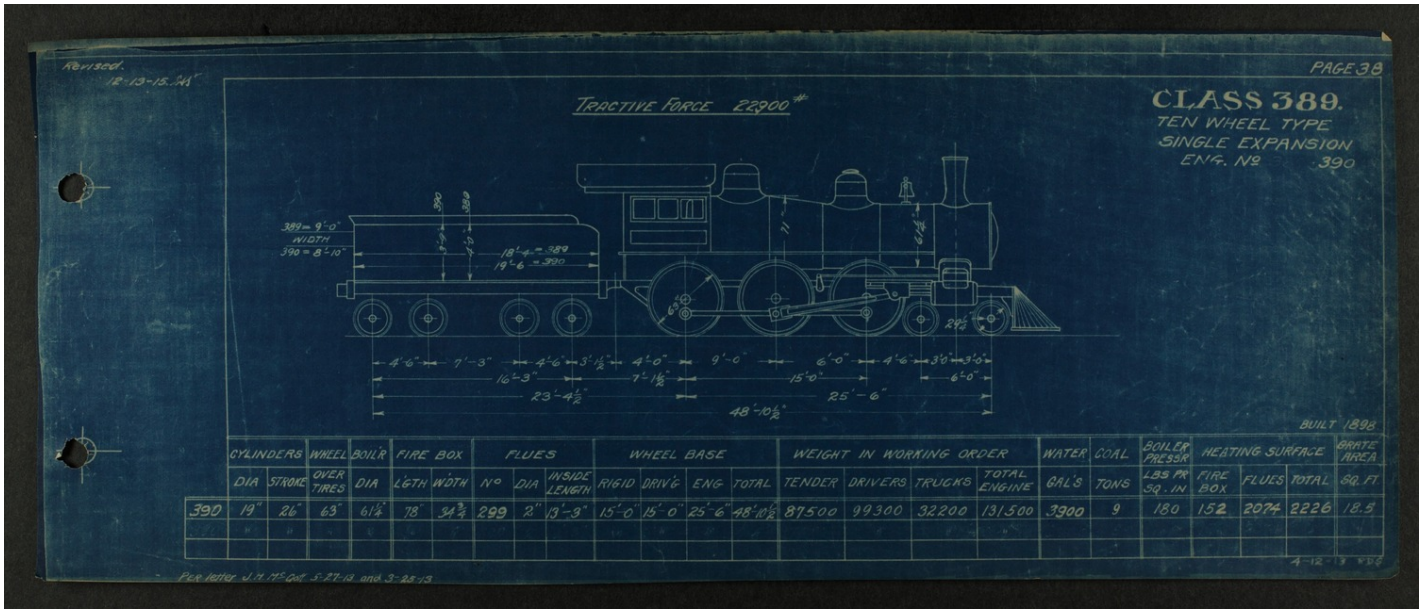
CYLINDERS		WHEEL	BOIL'R	FIRE BOX		FLUES			WHEEL BASE				WEIGHT IN WORKING ORDER				WATER	COAL	BOILER PRESSR	HEATING SURFACE			GRATE AREA
DIA	STROKE	OVER TIRE	DIA	L'GTH	WDTH	No	DIA	INSIDE LENGTH	RIGID	DRIV'G	ENG	TOTAL	TENDER	DRIVERS	TRUCK	TOTAL ENGINE	GALS	TONS	LBS PR. SQ IN.	FIRE BX	FLUES	TOTAL	SQ FT.
19"	26"	58"	60"	108"	33½"	230	2"	12'-6"	11'-10"	11'-10"	22'-2"	49'-10"	84250	85450	21700	117150	4000	7	150	158.5	1505.5	1664	24.1
																			175				

Atchison, Topeka and Santa Fe steam engine diagrams and blueprints



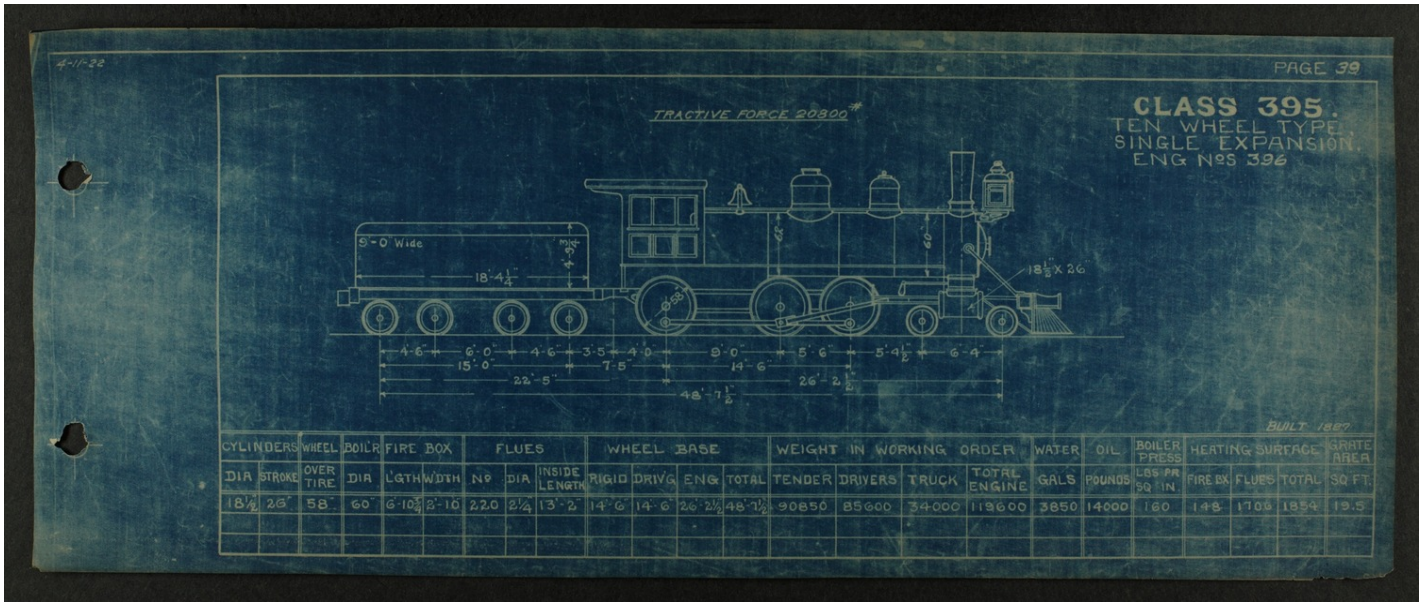
CYLINDER		WHEEL	BOILER	FIREBOX		FLUES			WHEEL BASE				WEIGHT IN WORKING ORDER				WATER	OIL	BOILER PRESS	HEATING SURFACE				GRATE AREA
DIA	STROKE	OVER TIRES	DIAM	LENGTH	WIDTH	No.	DIA.	INSIDE LENGTH	RIGID	DRIVING	ENG.	TOTAL	TENDER	DRIVERS	ENGINE TRUCK	TOTAL ENGINE	GAL	GAL	LBS PER SQ IN	FIRE BOX	FLUES	TOTAL	SUPER HEATER	SQFT
19"	26"	56"	60 1/2"	107 5/8"	40 3/8"	274	2"	12'-7 1/2"	11'-6"	11'-6"	21'-11"		137000	107030	23220	130250	6500	3000	185	154	1816	1970	—	302

Atchison, Topeka and Santa Fe steam engine diagrams and blueprints



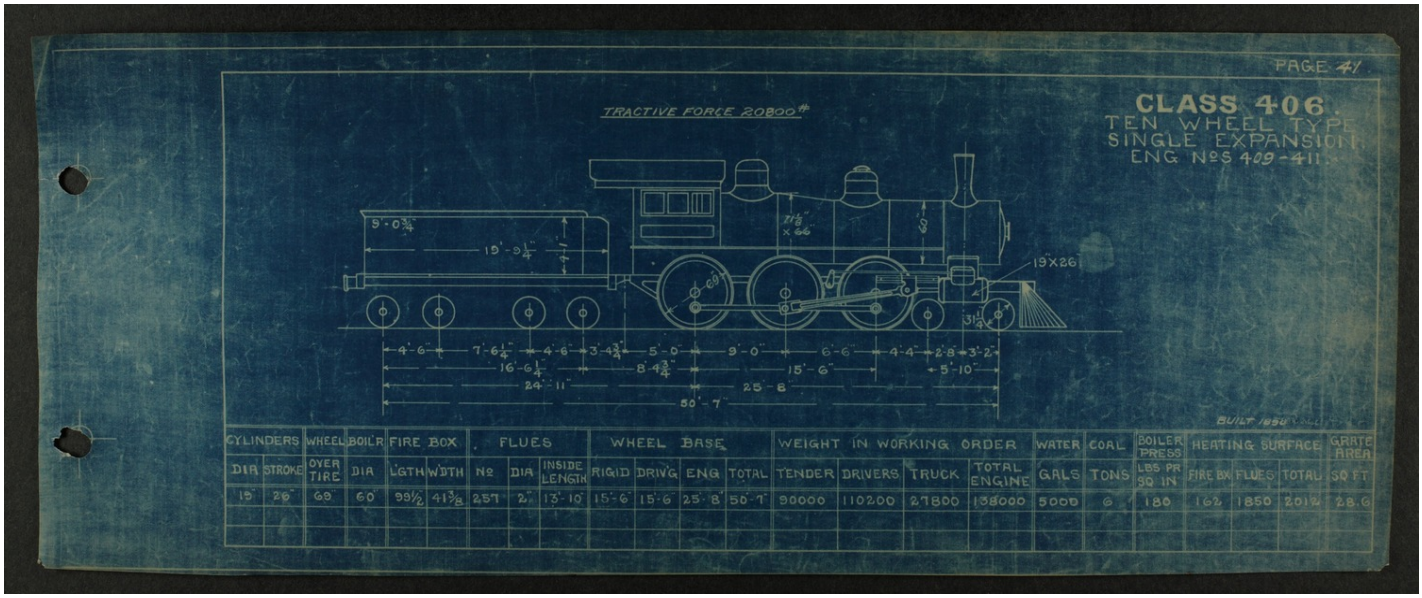
CYLINDERS		WHEEL	BOILR	FIRE BOX		FLUES			WHEEL BASE				WEIGHT IN WORKING ORDER				WATER	COAL	BOILER PRESSR	HEATING SURFACE			GRATE AREA
DIA	STROKE	OVER TIRES	DIA	LGTH	WIDTH	Nº	DIA	INSIDE LENGTH	RIGID	DRIV'G	ENG	TOTAL	TENDER	DRIVERS	TRUCKS	TOTAL ENGINE	GAL'S	TONS	LBS PR SQ. IN	FIRE BOX	FLUES	TOTAL	SQ. FT
390	19"	26"	63"	61¼	78"	34⅜	299	2"	13'-3"	15'-0"	15'-0"	25'-6"	48'-10½"	87500	99300	32200	131500	3900	9	180	152	2074	2226	18.5

Atchison, Topeka and Santa Fe steam engine diagrams and blueprints



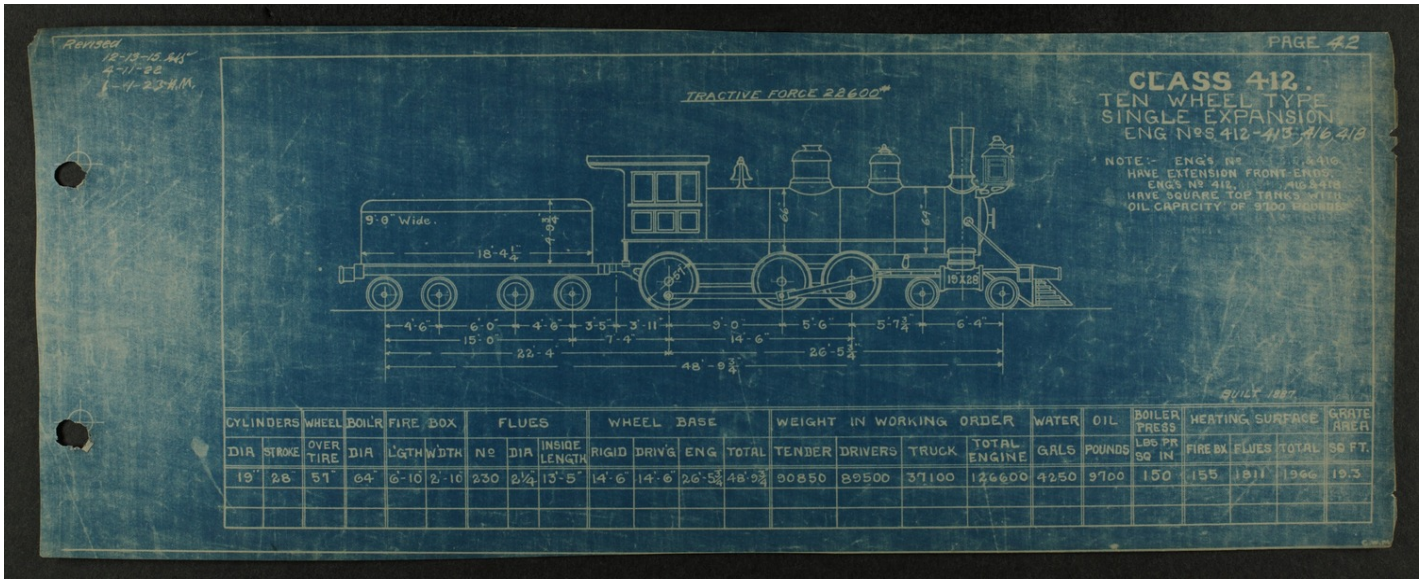
CYLINDERS		WHEEL	BOILR	FIRE BOX		FLUES			WHEEL BASE				WEIGHT IN WORKING ORDER				WATER	OIL	BOILER PRESS	HEATING SURFACE			GRATE AREA
DIA	STROKE	OVER TIRE	DIA	LGTH	WIDTH	No	DIA	INSIDE LENGTH	RIGID	DRIVG	ENG	TOTAL	TENDER	DRIVERS	TRUCK	TOTAL ENGINE	GALS	POUNDS	LBS PR SQ IN.	FIRE BX	FLUES	TOTAL	SQ FT.
18½	26"	58"	60"	6-10⅜	3'-10	220	2¼	13'-2	14'-6	14'-6	26'-2½	48'-7⅛	90850	85600	34000	119600	3850	14000	160	148	1709	1854	19.5

Atchison, Topeka and Santa Fe steam engine diagrams and blueprints



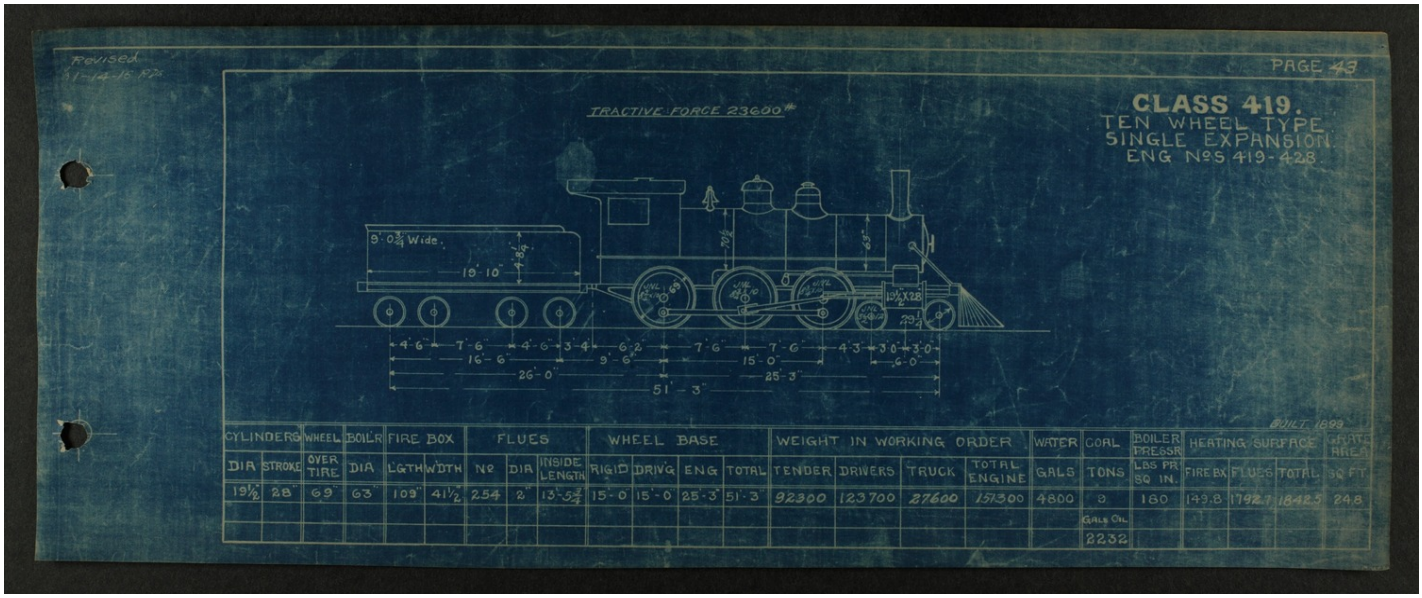
CYLINDERS		WHEEL	BOIL'R	FIRE BOX		FLUES			WHEEL BASE				WEIGHT IN WORKING ORDER				WATER	COAL	BOILER PRESS	HEATING SURFACE			GRATE AREA
DIA	STROKE	OVER TIRE	DIA	LGTH	WIDTH	No	DIA	INSIDE LENGTH	RIGID	DRIVG	ENG	TOTAL	TENDER	DRIVERS	TRUCK	TOTAL ENGINE	GALS	TONS	LBS PR SQ IN	FIRE BX	FLUES	TOTAL	SQ FT
19	26	69	60	99½	41⅜	257	2	13-10	15-6	15-6	25-8	50-7	90000	110200	27800	138000	5000	6	180	162	1850	2012	28.6

Atchison, Topeka and Santa Fe steam engine diagrams and blueprints



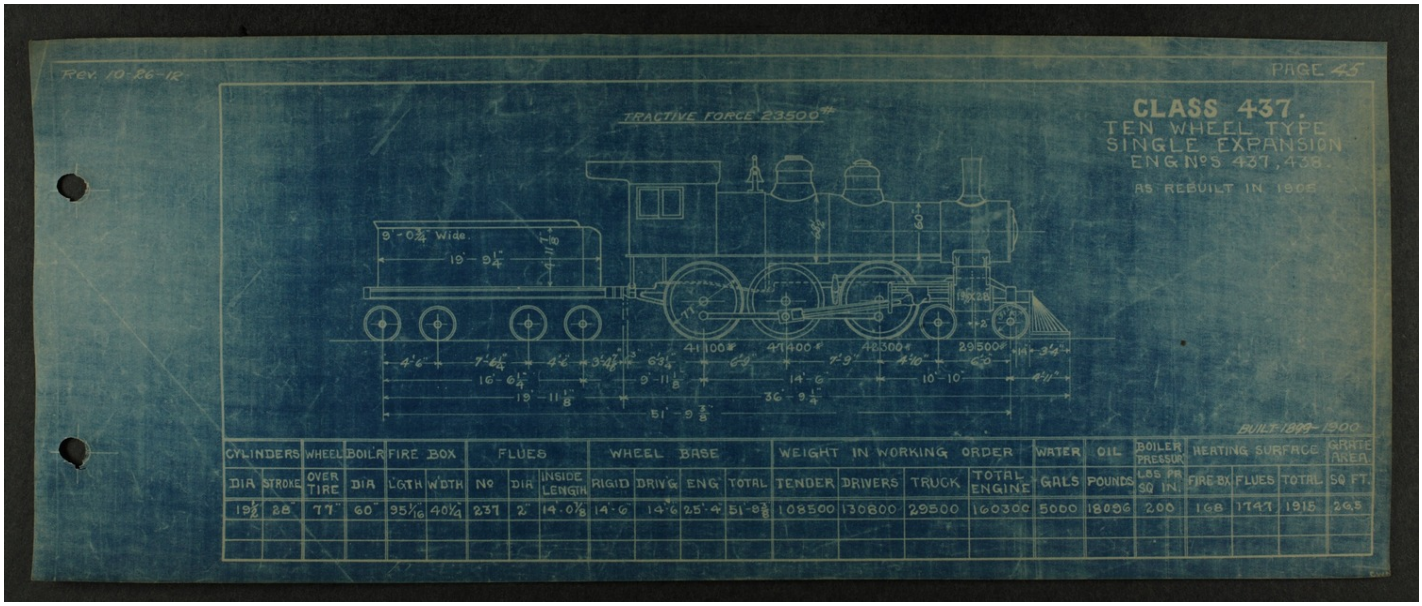
CYLINDERS		WHEEL	BOILR	FIRE BOX		FLUES			WHEEL BASE				WEIGHT IN WORKING ORDER				WATER	OIL	BOILER PRESS	HEATING SURFACE			GRATE AREA
DIA	STROKE	OVER TIRE	DIA	LGTH	WDTH	Nº	DIA	INSIDE LENGTH	RIGID	DRIV'G	ENG	TOTAL	TENDER	DRIVERS	TRUCK	TOTAL ENGINE	GALS	POUNDS	LBS PR SQ IN	FIRE BX	FLUES	TOTAL	SQ FT.
19"	28	57"	64	6-10	2-10	230	2¼	13'-5"	14'-6	14'-6	26'-5¾	48'-9¾	30850	89500	37100	126600	4250	9700	150	155	1811	1966	19.3

Atchison, Topeka and Santa Fe steam engine diagrams and blueprints



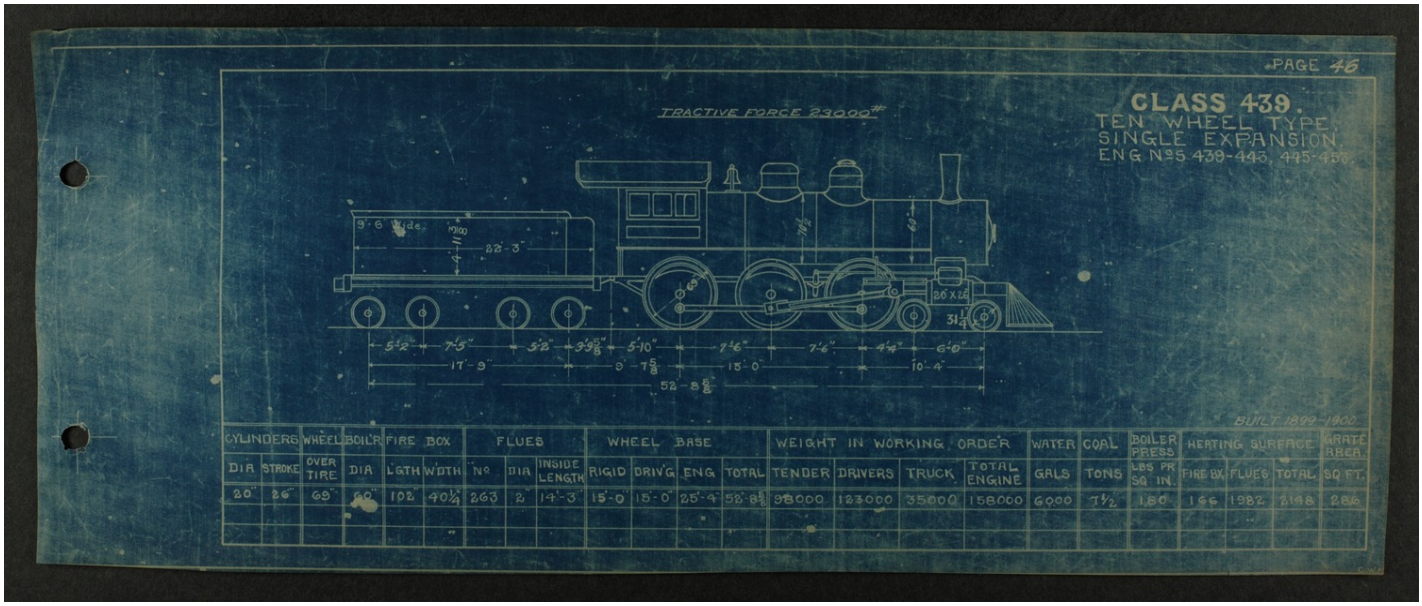
CYLINDERS		WHEEL	BOILR	FIRE BOX		FLUES			WHEEL BASE				WEIGHT IN WORKING ORDER				WATER	COAL	BOILER PRESSR	HEATING SURFACE			GRATE AREA
DIA	STROKE	OVER TIRE	DIA	LGTH	WDTH	No	DIA	INSIDE LENGTH	RIGID	DRIVG	ENG	TOTAL	TENDER	DRIVERS	TRUCK	TOTAL ENGINE	GALS	TONS	LBS PR SQ IN.	FIRE BX	FLUES	TOTAL	SQ FT
19½	28	69	63	109"	41½	254	2	13'-5¾	15'-0	15'-0	25'-3	51'-3	92300	123700	27600	151300	4800	8	160	149.8	1792.7	1842.5	24.8
																		GALS OIL 2232					

Atchison, Topeka and Santa Fe steam engine diagrams and blueprints



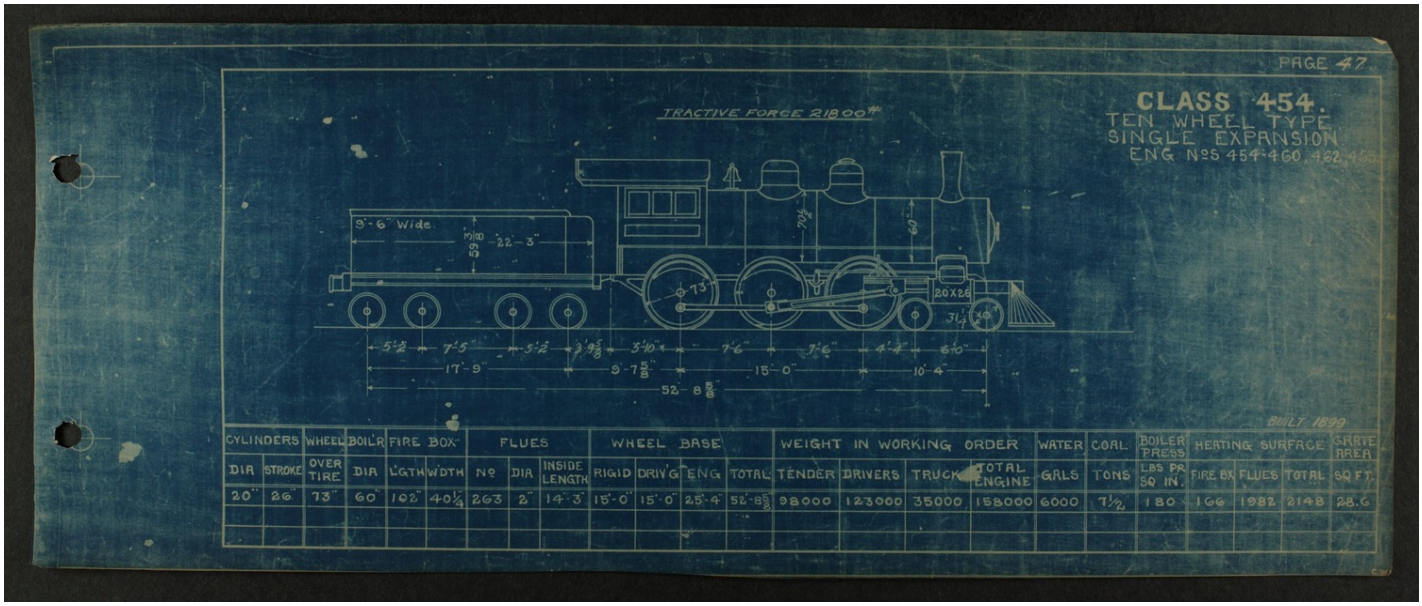
CYLINDERS		WHEEL	BOILR	FIRE BOX		FLUES			WHEEL BASE				WEIGHT IN WORKING ORDER				WATER	OIL	BOILER PRESSUR	HEATING SURFACE			GRATE AREA
DIA	STROKE	OVER TIRE	DIA	LGTH	WDTH	No	DIA	INSIDE LENGTH	RIGID	DRIVG	ENG	TOTAL	TENDER	DRIVERS	TRUCK	TOTAL ENGINE	GALS	POUNDS	LBS PR SQ IN.	FIRE BX	FLUES	TOTAL	SQ FT.
19½	28	77"	60"	95 5/16	40¼	237	2"	14-0⅛	14-6	14-6	25-4	51-8⅜	108500	130800	29500	160300	5000	180536	200	168	1747	1915	26.5

Atchison, Topeka and Santa Fe steam engine diagrams and blueprints



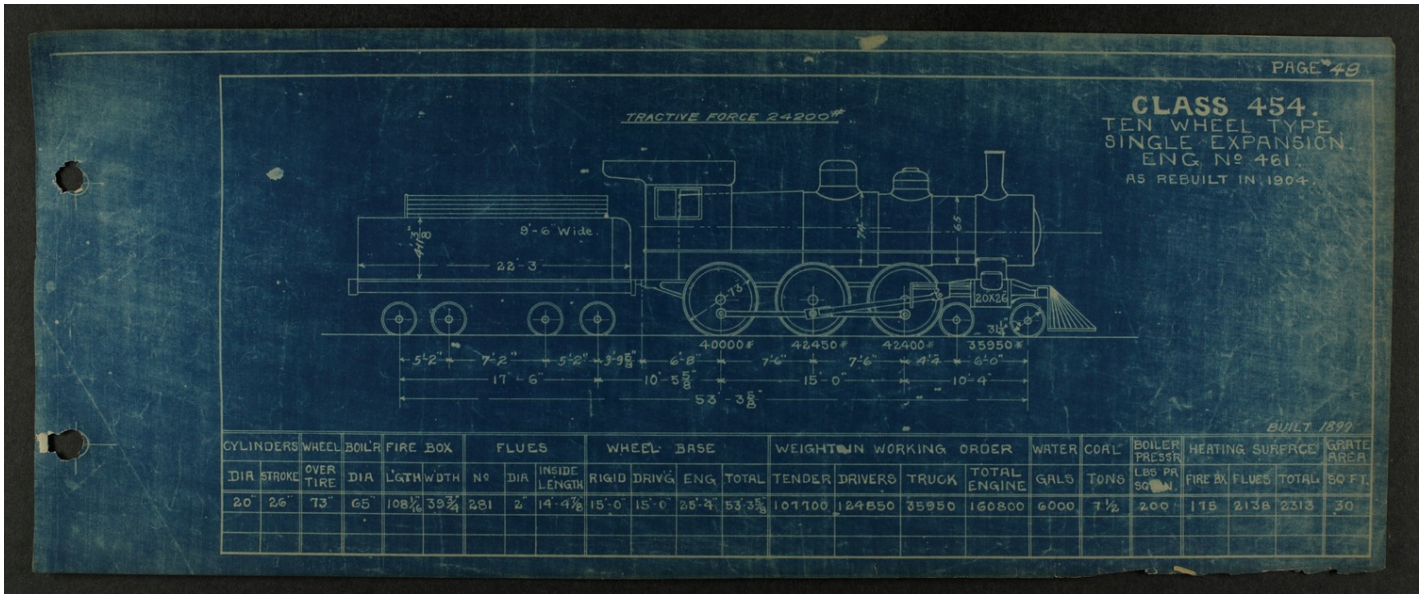
CYLINDERS		WHEEL	BOILR	FIRE BOX		FLUES			WHEEL BASE				WEIGHT IN WORKING ORDER				WATER	COAL	BOILER PRESS	HEATING SURFACE			GRATE AREA
DIA	STROKE	OVER TIRE	DIA	LGTH	WIDTH	No	DIA	INSIDE LENGTH	RIGID	DRIV'G	ENG	TOTAL	TENDER	DRIVERS	TRUCK	TOTAL ENGINE	GALS	TONS	LBS PR SQ IN	FIRE BX	FLUES	TOTAL	SQ FT.
20"	26"	69"	60"	102	40 1/4	263	2	14-3	15-0	15-0	25-4	52-8 1/8	98000	123000	35000	158000	6000	7 1/2	180	166	1982	2148	28.6

Atchison, Topeka and Santa Fe steam engine diagrams and blueprints



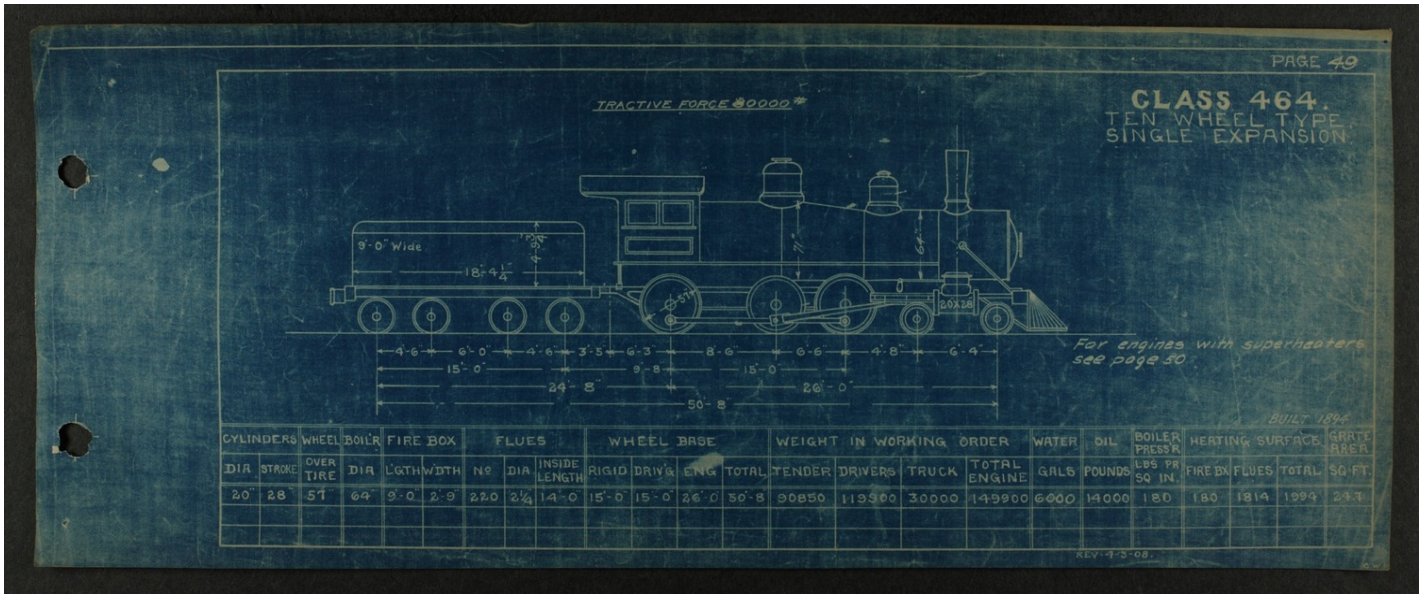
CYLINDERS		WHEEL	BOIL'R	FIRE BOX		FLUES			WHEEL BASE				WEIGHT IN WORKING ORDER				WATER	COAL	BOILER PRESS	HEATING SURFACE			GRATE AREA
DIA	STROKE	OVER TIRE	DIA	LGTH	WDTH	No	DIA	INSIDE LENGTH	RIGID	DRIV'G	ENG	TOTAL	TENDER	DRIVERS	TRUCK	TOTAL ENGINE	GALS	TONS	LBS PR SQ IN.	FIRE BX	FLUES	TOTAL	SQ FT.
20"	26"	73"	60"	102"	40½"	263	2"	14'-3"	15'-0"	15'-0"	25'-4"	52'-8⅝"	98000	123000	35000	158000	6000	7½	180	166	1982	2148	28.6

Atchison, Topeka and Santa Fe steam engine diagrams and blueprints



CYLINDERS		WHEEL	BOIL'R	FIRE BOX		FLUES			WHEEL BASE				WEIGHT IN WORKING ORDER				WATER	COAL	BOILER PRESS'R	HEATING SURFACE			GRATE AREA
DIA	STROKE	OVER TIRE	DIA	L'GTH	WDTH	Nº	DIA	INSIDE LENGTH	RIGID	DRIVG	ENG	TOTAL	TENDER	DRIVERS	TRUCK	TOTAL ENGINE	GALS	TONS	LBS PR SQ IN.	FIRE BX	FLUES	TOTAL	SQ FT.
20"	26"	73"	65"	108⅛"	39¾"	281	2"	14'-4⅞"	15'-0"	15'-0"	25'-4"	53'-3⅝"	107700	124850	35950	160800	6000	7½	200	175	2138	2313	30

Atchison, Topeka and Santa Fe steam engine diagrams and blueprints



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TRACTIVE FORCE 30000#

CLASS 464.
TEN WHEEL TYPE.
SINGLE EXPANSION.

9'-0" Wide

18'-4 1/4"

20X26

4'-6" 6'-0" 4'-6" 3'-5" 6'-3" 8'-6" 6'-6" 4'-8" 6'-4"
15'-0" 9'-8" 15'-0"
24'-8" 26'-0"
50'-8"

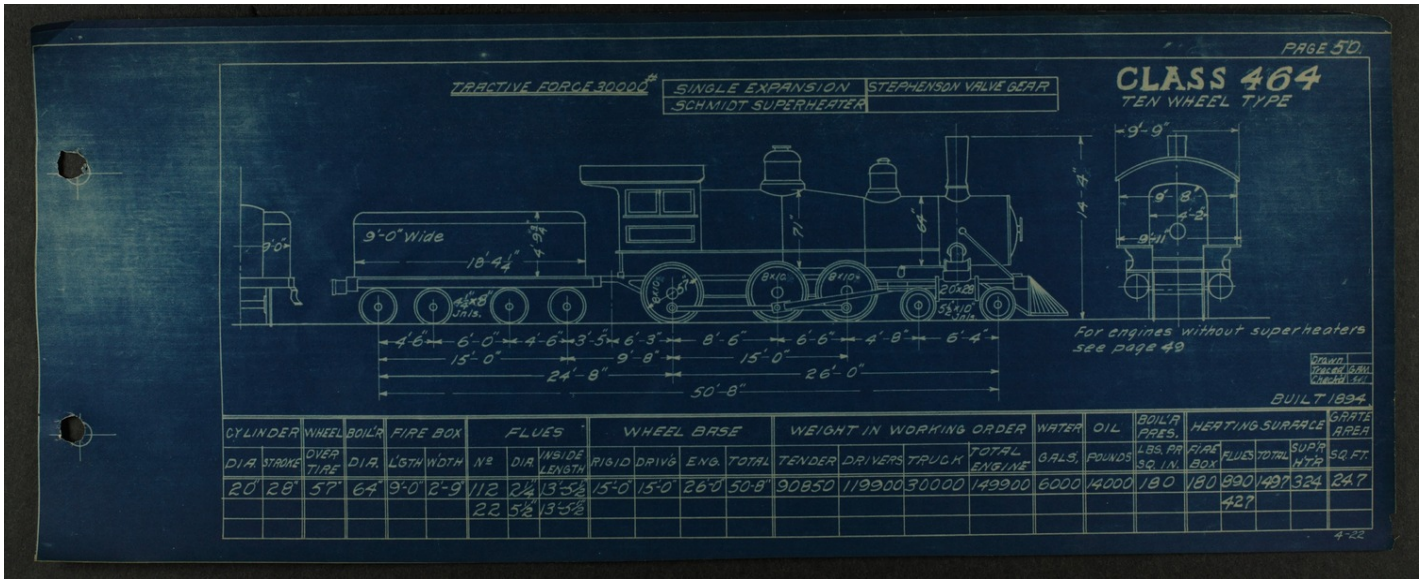
For engines with superheaters see page 50.

BUILT 1895

CYLINDERS		WHEEL	BOILR	FIRE BOX		FLUES			WHEEL BASE				WEIGHT IN WORKING ORDER				WATER	OIL	BOILER PRESS'R	HEATING SURFACE			GRATE AREA
DIA	STROKE	OVER TIRE	DIA	LGTH	WIDTH	Nº	DIA	INSIDE LENGTH	RIGID	DRIV'G	ENG	TOTAL	TENDER	DRIVERS	TRUCK	TOTAL ENGINE	GALS	POUNDS	LBS PR SQ IN	FIRE BX	FLUES	TOTAL	SQ FT.
20"	28	57	64	9'-0	2'-9	220	2 1/4	14'-0	15'-0	15'-0	26'-0	50'-8	90850	119300	30000	149900	6000	14000	180	180	1814	1994	24.7

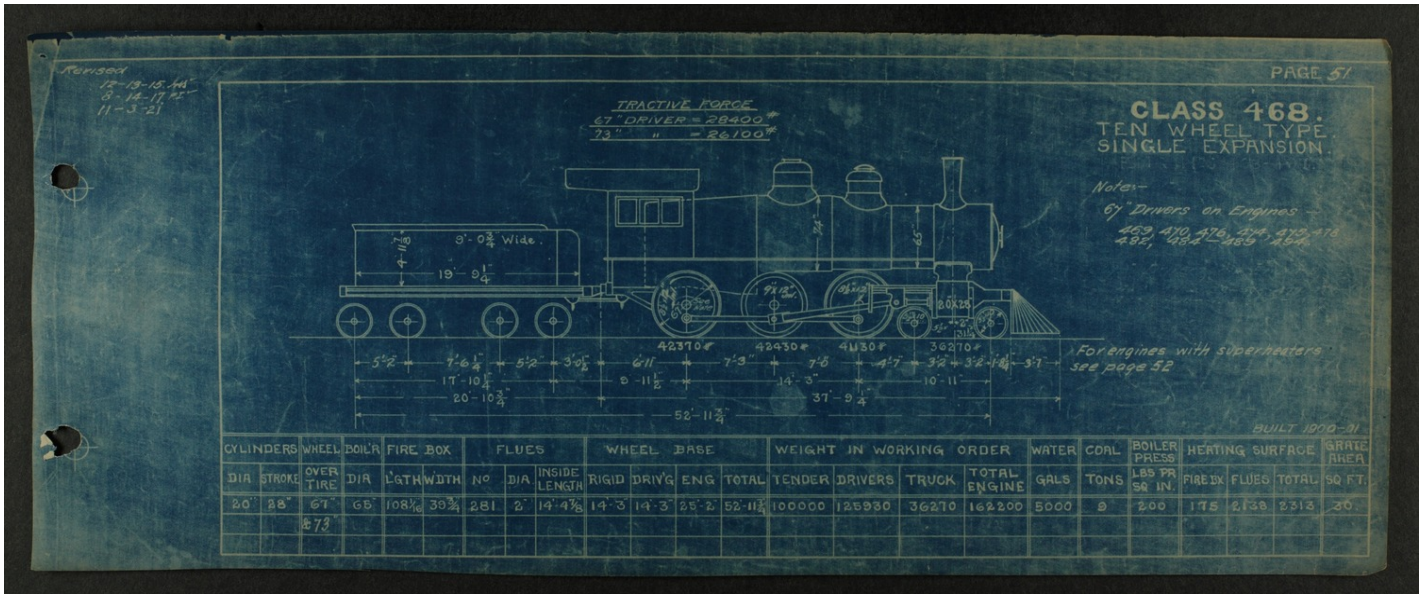
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Atchison, Topeka and Santa Fe steam engine diagrams and blueprints



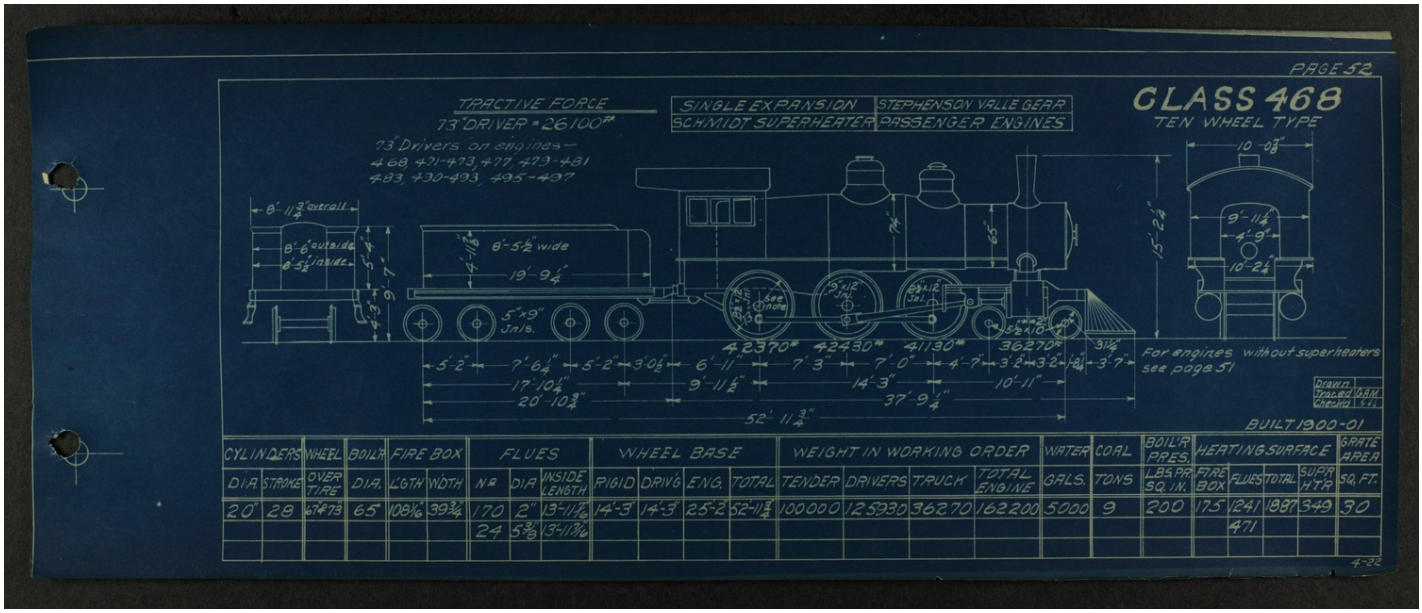
CYLINDER		WHEEL	BOIL'R	FIRE BOX		FLUES			WHEEL BASE				WEIGHT IN WORKING ORDER				WATER	OIL	BOIL'R PRES.	HEATING SURFACE				GRATE AREA
DIA.	STROKE	OVER TIRE	DIA.	L'GTH	WDTH	No	DIA	INSIDE LENGTH	RIGID	DRIVG	ENG.	TOTAL	TENDER	DRIVERS	TRUCK	TOTAL ENGINE	G.A.L.S.	POUNDS	LBS. PR SQ. IN.	FIRE BOX	FLUES	TOTAL	SUP HTR	SQ. FT.
20"	28"	57"	64"	9'-0	2'-9	112	2¼	13'-5⅛	15'-0	15'-0	26'-0	50'-8"	90850	119900	30000	149900	6000	14000	180	180	990	1497	324	24.7
						22	5½	13'-5⅛													427			

Atchison, Topeka and Santa Fe steam engine diagrams and blueprints



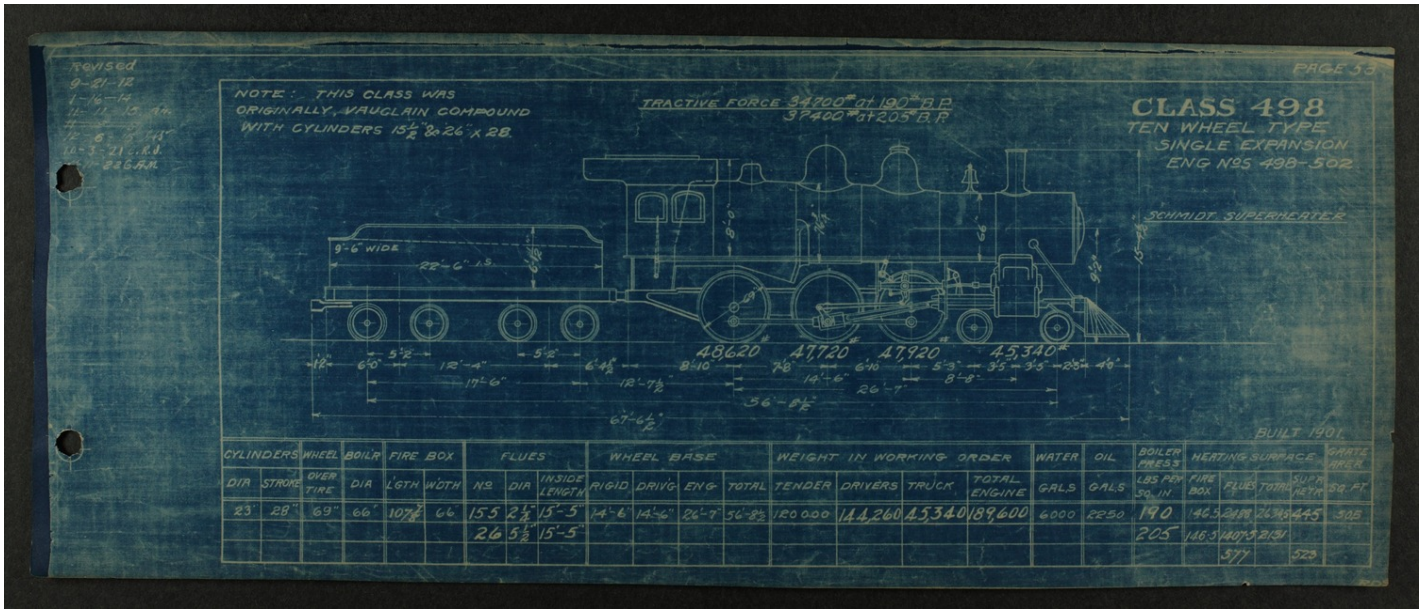
CYLINDERS		WHEEL	BOIL'R	FIRE BOX		FLUES			WHEEL BASE				WEIGHT IN WORKING ORDER				WATER	COAL	BOILER PRESS	HEATING SURFACE			GRATE AREA
DIA	STROKE	OVER TIRE	DIA	LGTH	WIDTH	No	DIA	INSIDE LENGTH	RIGID	DRIV'G	ENG	TOTAL	TENDER	DRIVERS	TRUCK	TOTAL ENGINE	GALS	TONS	LBS PR SQ IN.	FIRE BX	FLUES	TOTAL	SQ FT.
20"	28"	67"	65"	108 5/16	39¾	281	2"	14'-4⅞"	14'-3"	14'-3"	25'-2"	52'-11¾"	100000	125930	36270	162200	5000	9	200	175	2138	2313	30
		&73"																					

Atchison, Topeka and Santa Fe steam engine diagrams and blueprints



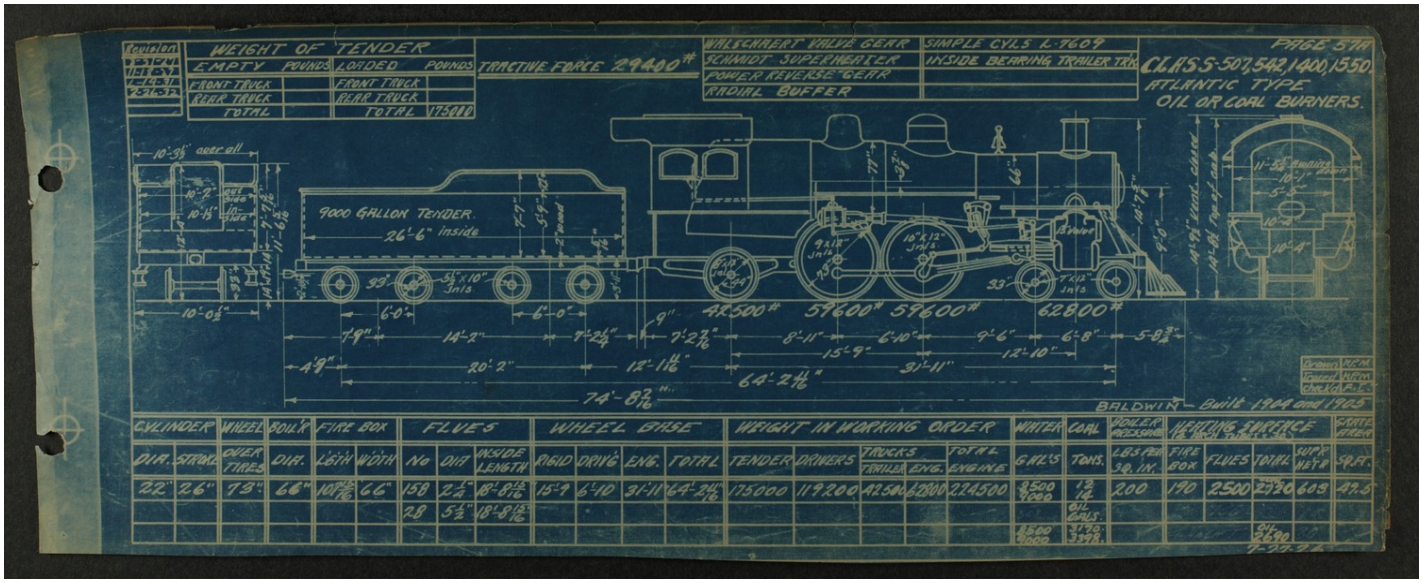
CYLINDERS		WHEEL	BOILR	FIRE BOX		FLUES			WHEEL BASE				WEIGHT IN WORKING ORDER				WATER	COAL	BOILR PRES	HEATING SURFACE				GRATE AREA
DIA	STROKE	OVER TIRE	DIA	LGTH	WIDTH	No	DIA	INSIDE LENGTH	P1&2D	D.P.W.G	ENG.	TOTAL	TENDER	DRIVERS	TRUCK	TOTAL ENGINE	GALS.	TONS	LBS. PR SQ. IN.	FIRE BOX	FLUES	TOTAL	SUPR HTR	SQ. FT.
20"	28	67&73	65"	108⅛	39¾	170	2"	13'-11⅞	14'-3"	14'-3"	25'-2"	52'-11¼	100000	125930	36270	162200	5000	9	200	175	1241	1887	349	30
						24	5⅜	13'-11⅞													471			

Atchison, Topeka and Santa Fe steam engine diagrams and blueprints

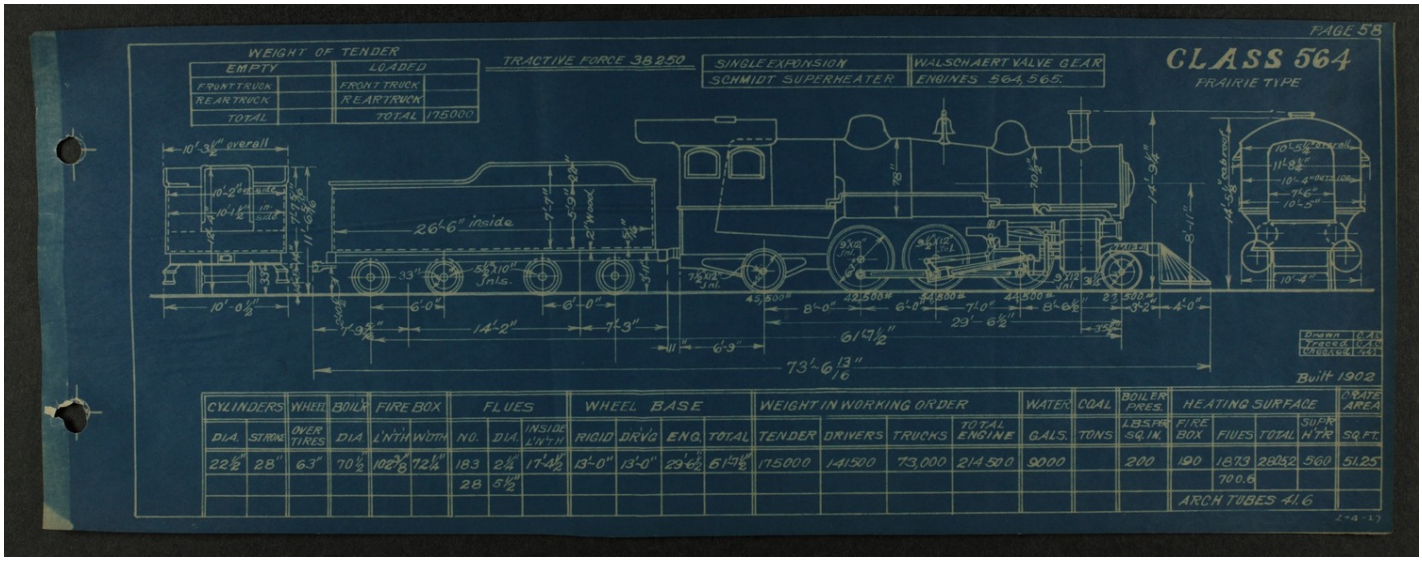


CYLINDERS		WHEEL	BOILR	FIRE BOX		FLUES			WHEEL BASE				WEIGHT IN WORKING ORDER				WATER	OIL	BOILER PRESS	HEATING SURFACE				GRATE AREA
DIA	STROKE	OVER TIRE	DIA	L'GTH	WIDTH	No	DIA	INSIDE LENGTH	RIGID	DRIVG	ENG	TOTAL	TENDER	DRIVERS	TRUCK	TOTAL ENGINE	GALS	GALS	LBS PER SQ IN	FIRE BOX	FLUES	TOTAL	SUPR HEATR	SQ FT
23"	28"	69"	66"	107⅞"	66"	155	2¼"	15'-5"	14'-6"	14'-6"	26'-7"	56'-8½"	120000	144,260	45,340	189600	6000	2250	190	146.5	2498	2644	445	305
						26	5½"	15'-5"											205	146.3	1407.3	2131		
																					577		523	

Atchison, Topeka and Santa Fe steam engine diagrams and blueprints

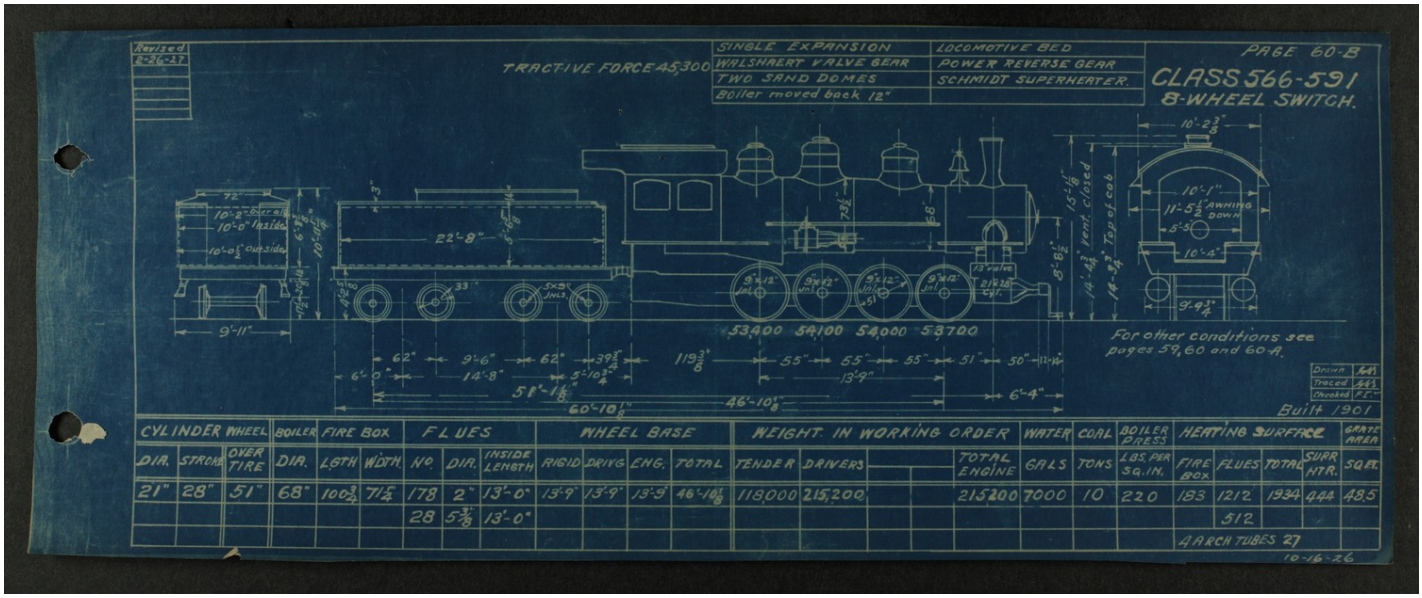


Atchison, Topeka and Santa Fe steam engine diagrams and blueprints



CYLINDERS		WHEEL	BOILER	FIRE BOX		FLUES			WHEEL BASE				WEIGHT IN WORKING ORDER				WATER	COAL	BOILER PRES.	HEATING SURFACE				GRATE AREA
DIA.	STROKE	OVER TIRES	DIA.	L'NTH	WIDTH	NO.	DIA.	INSIDE L'NTH	RIGID	DRVG	ENG.	TOTAL	TENDER	DRIVERS	TRUCKS	TOTAL ENGINE	GALS.	TONS	LBS PR SQ. IN.	FIRE BOX	FLUES	TOTAL	SUPR H'TR	SQ. FT.
22½"	28"	63"	70½	102 3/8	72¼"	183	2¼"	17'-4½"	13'-0"	13'-0"	29'-6½"	61'-7 1/2"	175000	141500	73,000	214500	9000		200	190	1873	2063.2	560	51.25
						28	5½"														700.6			
																				ARCH TUBES 41.6				

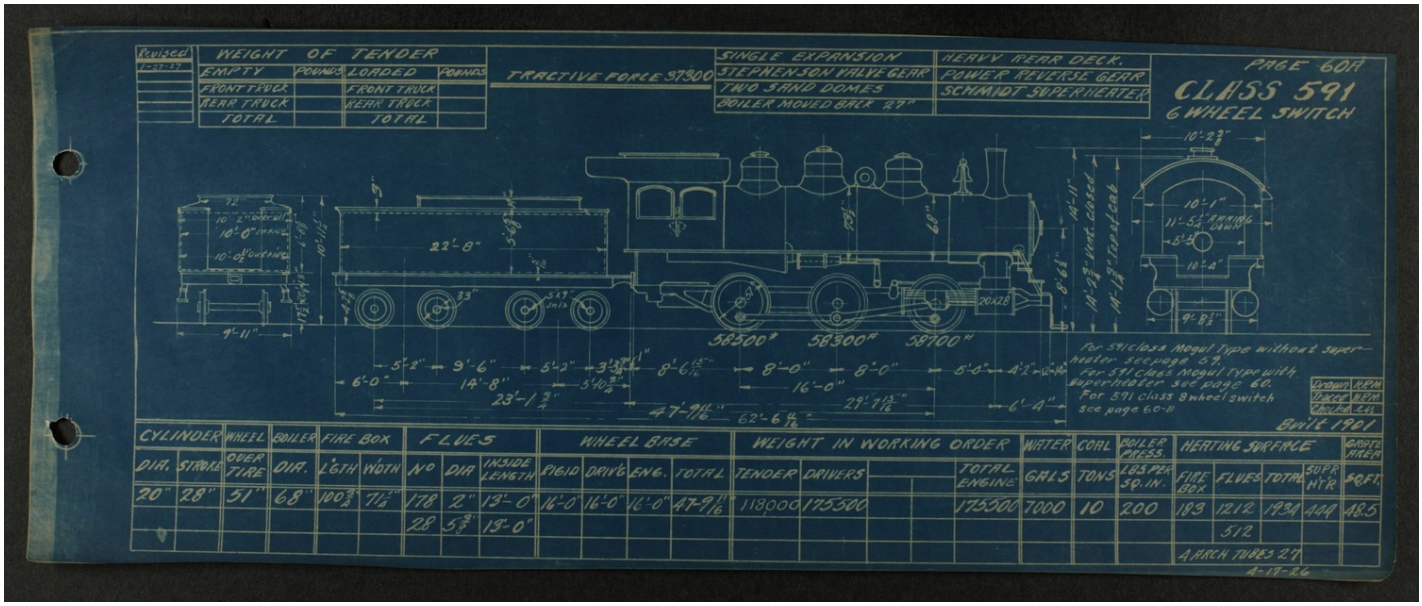
Atchison, Topeka and Santa Fe steam engine diagrams and blueprints



CYLINDER DIA.	CYLINDER STROKE	WHEEL OVER TIRE	BOILER DIA.	FIRE BOX LGTH	FIRE BOX WIDTH	FLUES No	FLUES DIA.	FLUES INSIDE LENGTH	WHEEL BASE RIGID	WHEEL BASE DRIVG	WHEEL BASE ENG.	WHEEL BASE TOTAL	WEIGHT IN WORKING ORDER TENDER	WEIGHT IN WORKING ORDER DRIVERS	WEIGHT IN WORKING ORDER TOTAL ENGINE	WATER GALS	COAL TONS	BOILER PRESS LBS. PER SQ. IN.	HEATING SURFACE FIRE BOX	HEATING SURFACE FLUES	HEATING SURFACE TOTAL	HEATING SURFACE SUPR HTR.	GRATE AREA SQ. FT.
21"	28"	51"	68"	100 3/8	71 1/4	178	2"	13'-0"	13'-9"	13'-9"	13'-9"	46'-10 1/8	119,000	215,200	215,200	7000	10	220	183	1212	1934	444	48.5
						28	5 3/8	13'-0"												312			
																				ARCH TUBES 27			

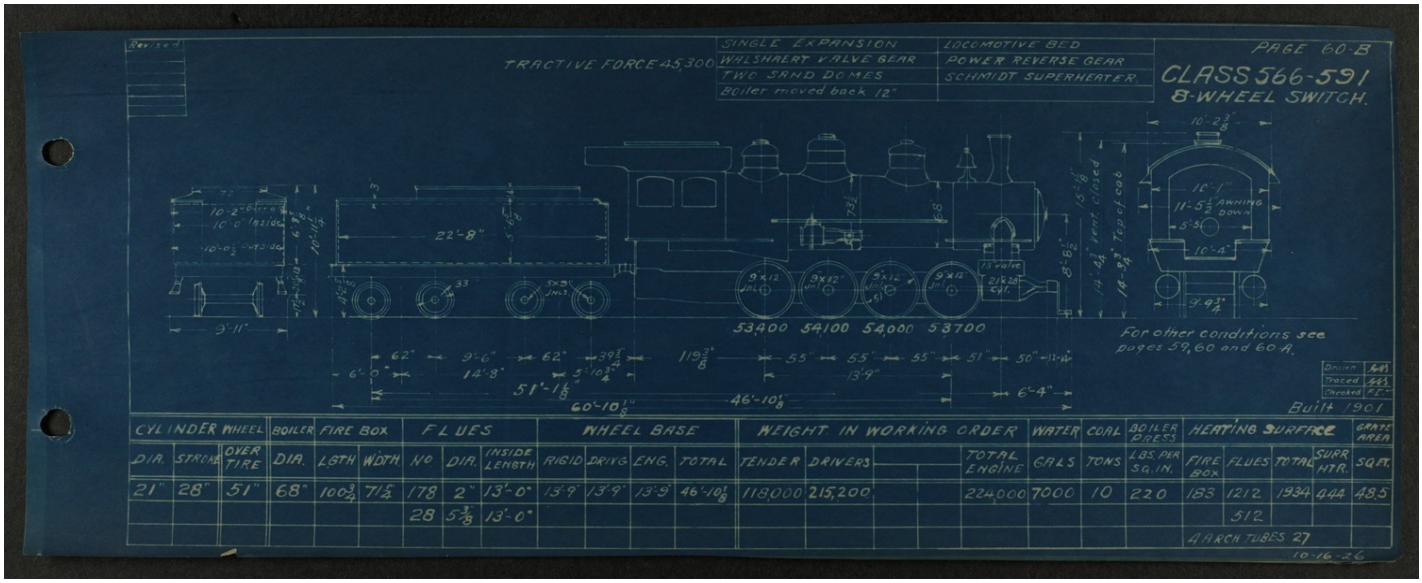
10-16-26

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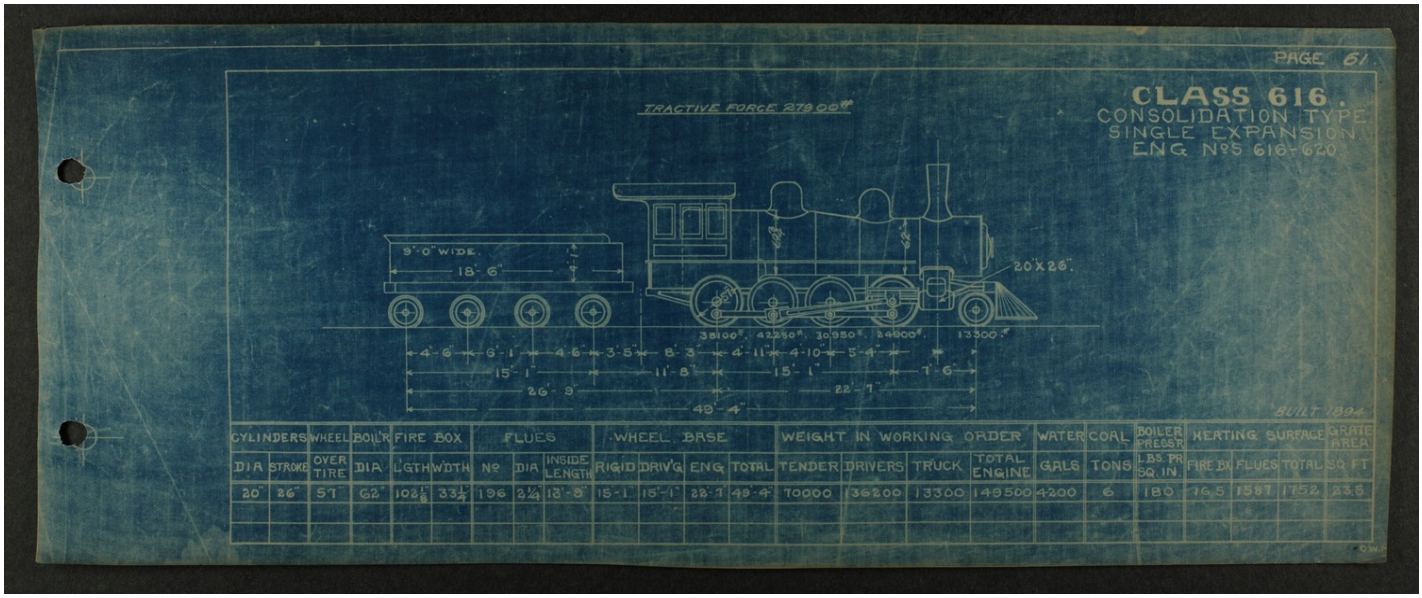
CYLINDER		WHEEL	BOILER	FIRE BOX		FLUES			WHEEL BASE				WEIGHT IN WORKING ORDER				WATER	COAL	BOILER PRESS.	HEATING SURFACE				GRATE AREA
DIA.	STROKE	OVER TIRE	DIA.	L'GTH	WIDTH	NO	DIA	INSIDE LENGTH	RIGID	DRIV'G	ENG.	TOTAL	TENDER	DRIVERS		TOTAL ENGINE	GALS	TONS	LBS PER SQ. IN.	FIRE BOX	FLUES	TOTAL	SUPR HTR	SQ FT.
20"	28"	51"	68"	100 3/8"	71 1/8"	178	2"	13'-0"	16'-0"	16'-0"	16'-0"	47-9 11/16"	118000	175500		175500	7000	10	200	183	1212	1934	444	48.5
						28	5 3/8"	13'-0"													512			
																				A ARCH TUBES 27				

Atchison, Topeka and Santa Fe steam engine diagrams and blueprints



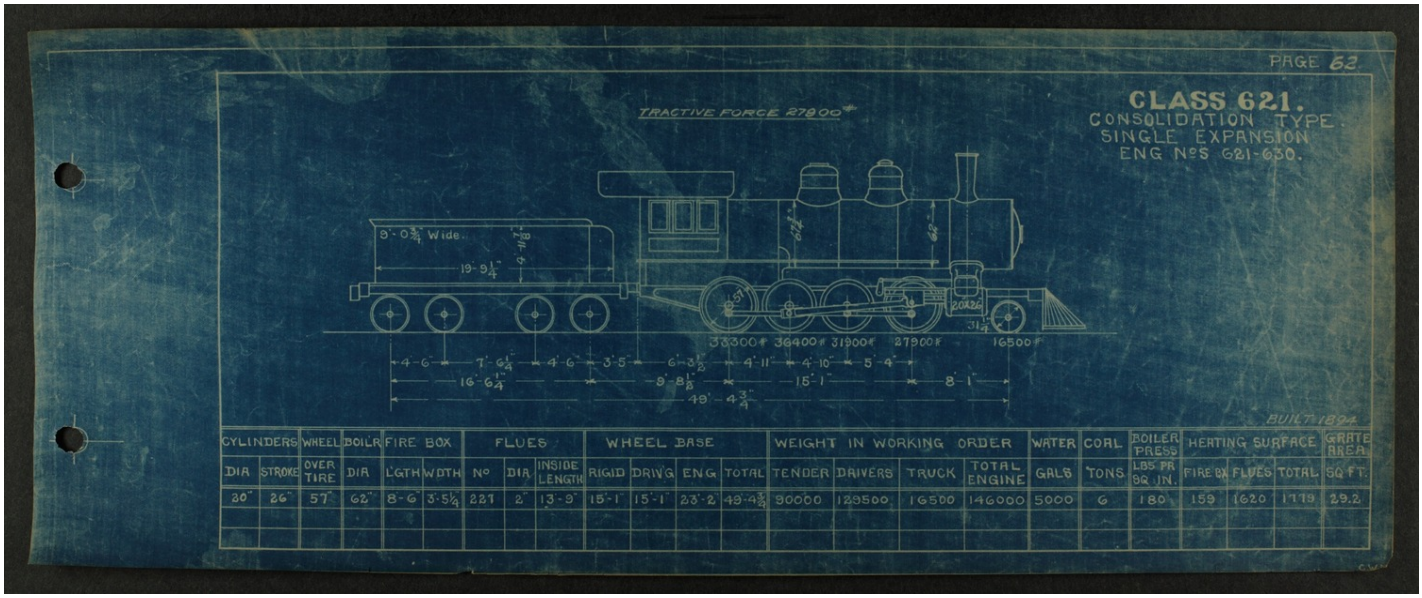
CYLINDER DIA.	CYLINDER STROKE	WHEEL OVER TIRE	BOILER DIA.	FIRE BOX LGTH	FIRE BOX WIDTH	FLUES NO	FLUES DIA.	FLUES INSIDE LENGTH	WHEEL BASE RIGID	WHEEL BASE DRIVG.	WHEEL BASE ENG.	WHEEL BASE TOTAL	WEIGHT IN WORKING ORDER TENDER	WEIGHT IN WORKING ORDER DRIVERS	WEIGHT IN WORKING ORDER TOTAL ENGINE	WATER GALS	COAL TONS	BOILER PRESS LBS. PER SQ. IN.	HEATING SURFACE FIRE BOX	HEATING SURFACE FLUES	HEATING SURFACE TOTAL	HEATING SURFACE SURR HTR.	GRATE AREA SQ. FT.
21"	28"	51"	68"	100 3/32	71 1/2	178	2"	13'-0"	13'-9"	13'-9"	13'-9"	46'-10 1/8	118000	215,200	224000	7000	10	220	183	1212	1934	444	48.5
						28	5 3/8	13'-0"												512			

Atchison, Topeka and Santa Fe steam engine diagrams and blueprints



CYLINDERS		WHEEL	BOILER	FIRE BOX		FLUES			WHEEL BASE				WEIGHT IN WORKING ORDER				WATER	COAL	BOILER PRESS.	HEATING SURFACE			GRATE AREA
DIA	STROKE	OVER TIRE	DIA	LGTH	WDTH	No	DIA	INSIDE LENGTH	RIGID	DRIV'G	ENG	TOTAL	TENDER	DRIVERS	TRUCK	TOTAL ENGINE	GALS	TONS	LBS PR SQ. IN.	FIRE BX	FLUES	TOTAL	SQ FT
20"	26"	51"	62"	102 1/8	33 3/4	196	2 1/4	13'-5"	15-1	15'-1"	22-7	49-4	70000	136200	13300	149500	4200	6	180	165	1587	1752	23.6

Atchison, Topeka and Santa Fe steam engine diagrams and blueprints



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CLASS 621.
CONSOLIDATION TYPE.
SINGLE EXPANSION
ENG Nos 621-650.

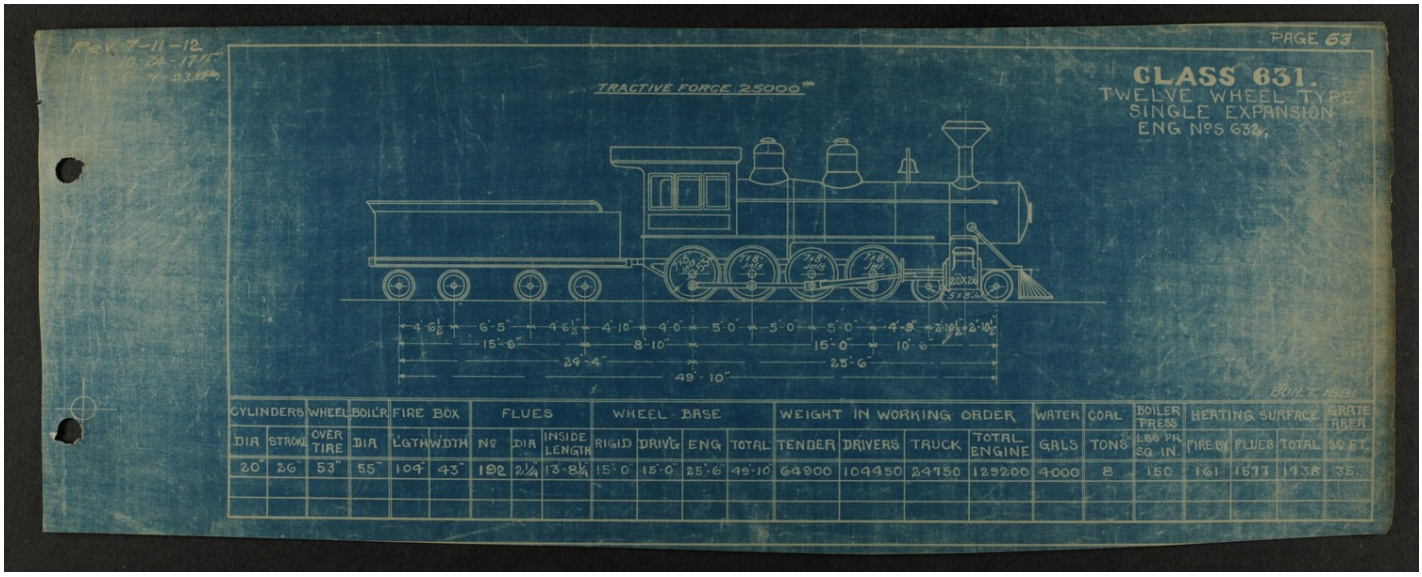
TRACTIVE FORCE 27800#

9'-0¾" Wide.
19'-9¼"
33300# 36400# 31900# 27900# 16500#
4'-6" 7'-6¼" 4'-6" 3'-5" 6'-3½" 4'-11" 4'-10" 5'-4"
16'-6¼" 9'-8½" 15'-1" 8'-1"
49'-4¾"

BUILT 1894

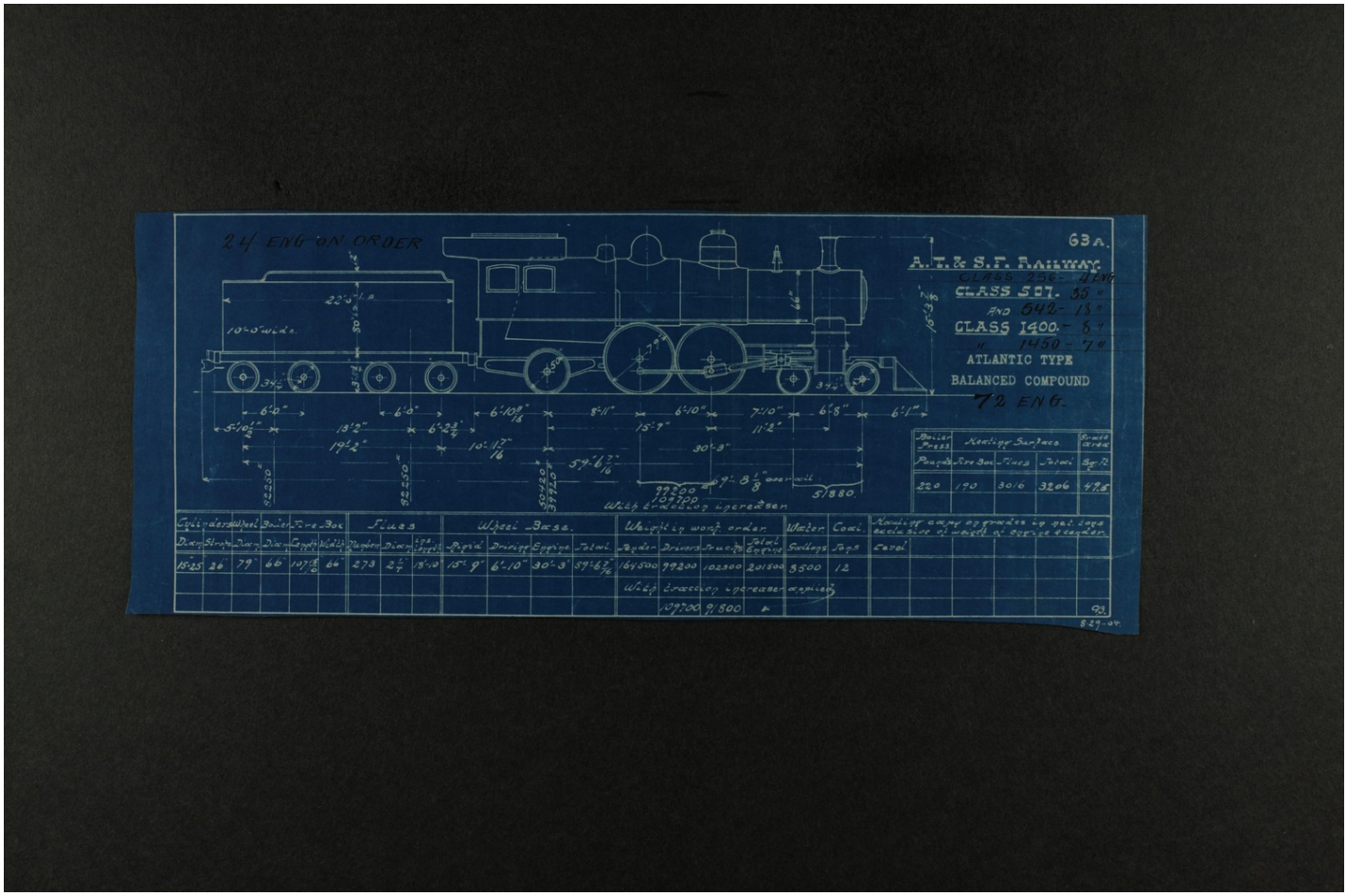
CYLINDERS		WHEEL	BOILER	FIRE BOX		FLUES			WHEEL BASE				WEIGHT IN WORKING ORDER				WATER	COAL	BOILER PRESS	HEATING SURFACE			GRATE AREA
DIA	STROKE	OVER TIRE	DIA	LGTH	WDTH	No	DIA	INSIDE LENGTH	RIGID	DRIVG	ENG	TOTAL	TENDER	DRIVERS	TRUCK	TOTAL ENGINE	GALS	TONS	LBS PR SQ IN.	FIRE BX	FLUES	TOTAL	SQ FT.
20"	26"	57"	62"	8-6	3-5¼	221	2"	13-9"	15-1	15-1	23-2	49-4¾	90000	129500	16500	146000	5000	6	180	159	1620	1779	29.2

Atchison, Topeka and Santa Fe steam engine diagrams and blueprints

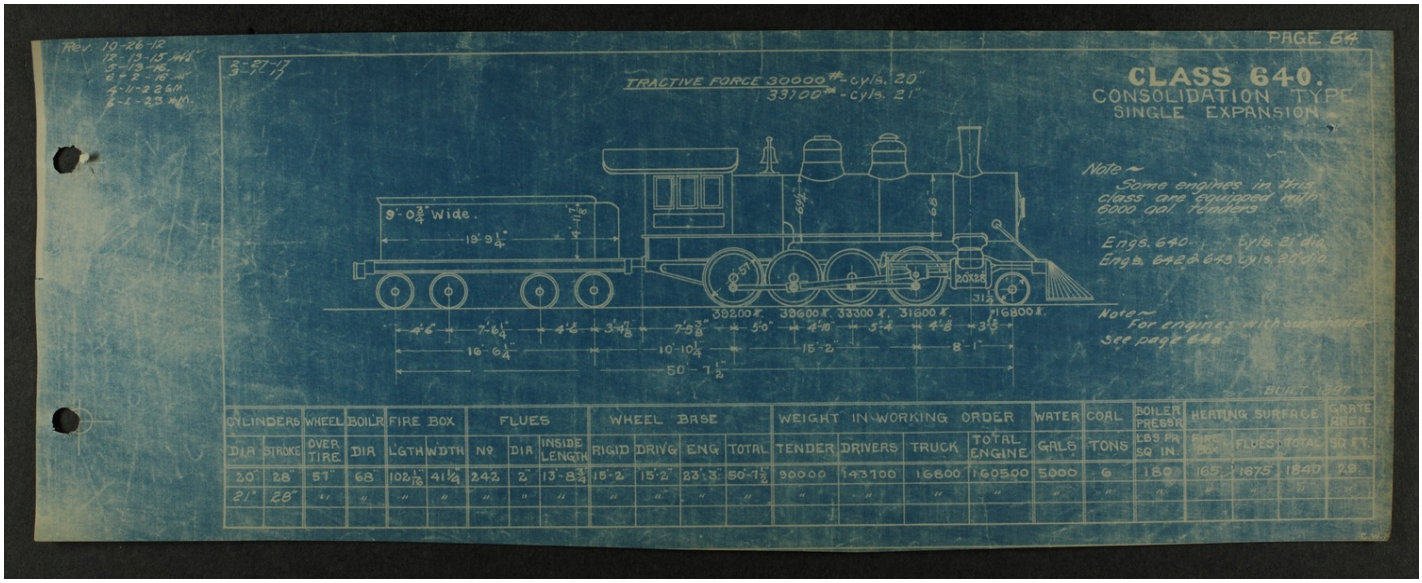


CYLINDERS		WHEEL	BOILR	FIRE BOX		FLUES			WHEEL BASE				WEIGHT IN WORKING ORDER				WATER	COAL	BOILER PRESS	HEATING SURFACE			GRATE AREA
DIA	STROKE	OVER TIRE	DIA	LGTH	WIDTH	No	DIA	INSIDE LENGTH	RIGID	DRIVG	ENG	TOTAL	TENDER	DRIVERS	TRUCK	TOTAL ENGINE	GALS	TONS	LBS PR SQ IN.	FIRE BX	FLUES	TOTAL	SQ FT.
20"	26"	53"	55"	104"	43"	192	2¼	13-8¼	15'0"	15'0"	25'6"	49'10"	64900	104450	24750	129200	4000	8	150	161	1611	1138	35.

Atchison, Topeka and Santa Fe steam engine diagrams and blueprints

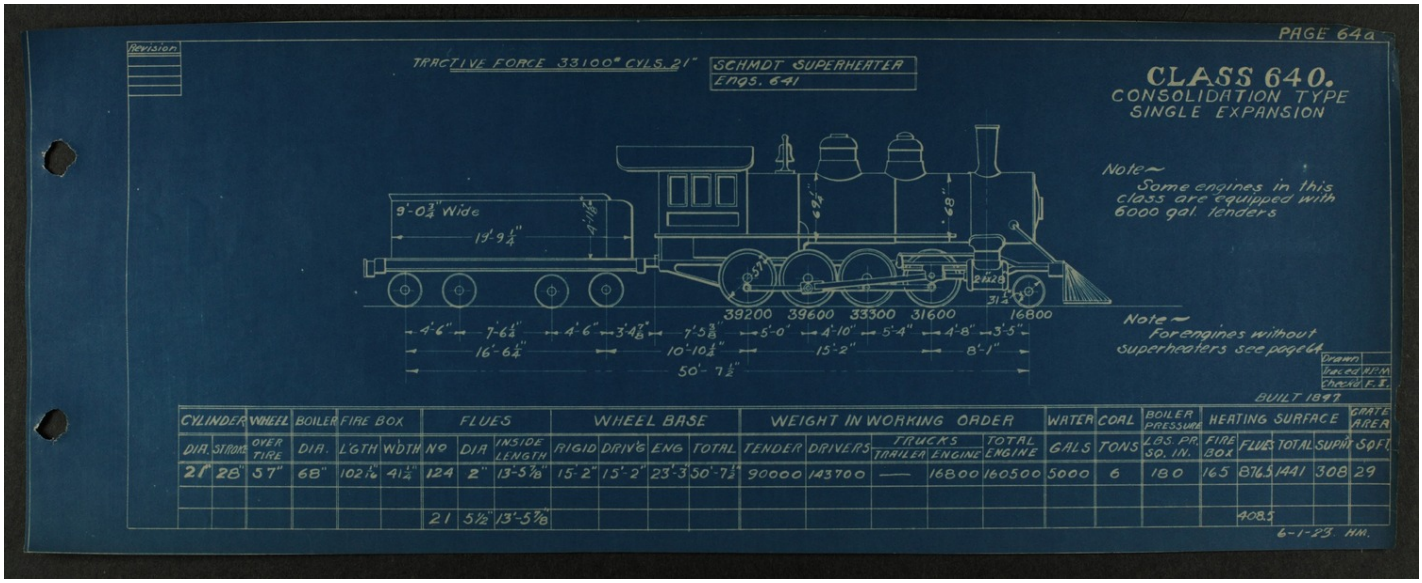


Atchison, Topeka and Santa Fe steam engine diagrams and blueprints



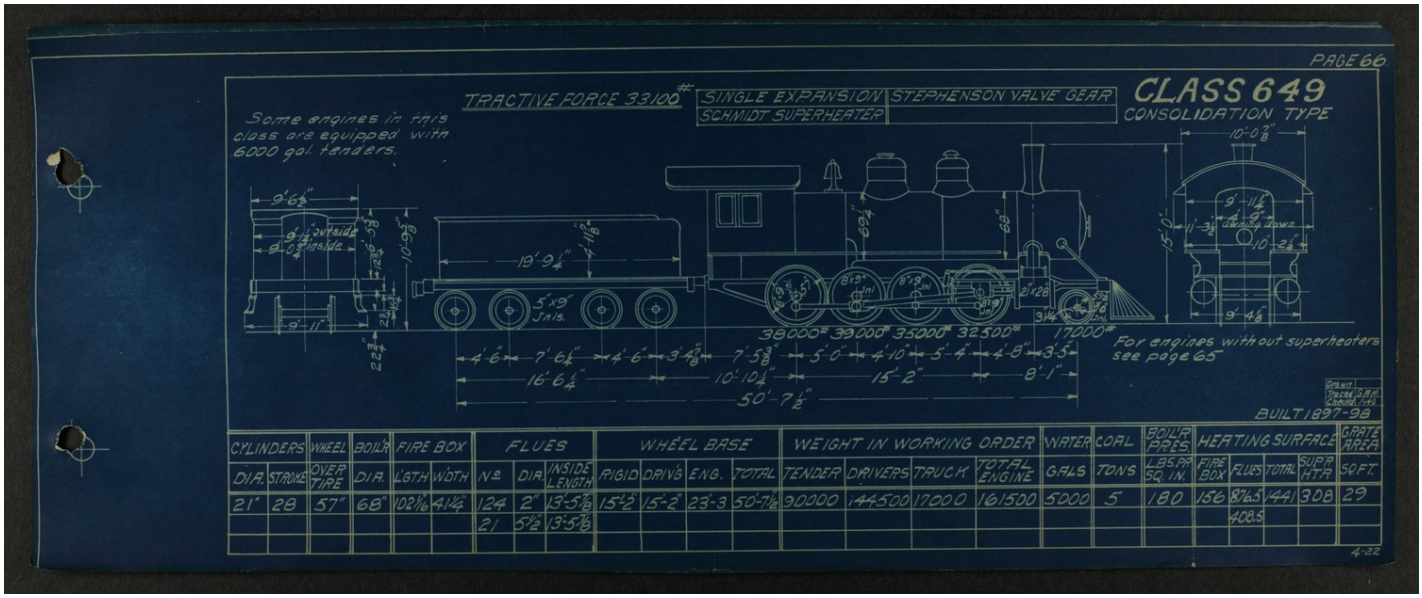
CYLINDERS		WHEEL	BOILR	FIRE BOX		FLUES			WHEEL BASE				WEIGHT IN WORKING ORDER				WATER	COAL	BOILER PRESSR	HEATING SURFACE			GRATE AREA
DIA	STROKE	OVER TIRE	DIA	LGTH	WDTH	NO	DIA	INSIDE LENGTH	RIGID	DRIVG	ENG	TOTAL	TENDER	DRIVERS	TRUCK	TOTAL ENGINE	GALS	TONS	LBS PR SQ IN.	FIRE BOX	FLUES	TOTAL	SQ FT
20"	28	57"	68	102 1/16	41 1/4	242	2	13-8 3/8	15-2	15-2	23-3	50-7 1/2	90000	143700	16800	160500	5000	6	180	165	1675	1840	29
21"	28"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"

Atchison, Topeka and Santa Fe steam engine diagrams and blueprints



CYLINDER		WHEEL	BOILER	FIRE BOX		FLUES			WHEEL BASE				WEIGHT IN WORKING ORDER				WATER	COAL	BOILER PRESSURE	HEATING SURFACE				GRATE AREA
DIA.	STROKE	OVER TIRE	DIA.	L'GTH	WIDTH	NO	DIA	INSIDE LENGTH	RIGID	DRIVG	ENG	TOTAL	TENDER	DRIVERS	TRUCKS TRAILER	TRUCKS ENGINE	TOTAL ENGINE	GALS	TONS	LBS. PR. SQ. IN.	FIRE BOX	FLUES	TOTAL	SUPHT	SQ FT
21"	28"	57"	68"	102 1/16	41 1/4	124	2"	13-5 7/8	15'-2"	15'-2"	23'-3"	50'-7 1/2	90000	143700	——	16800	160500	5000	6	180	165	876.5	1441	308	29
						21	5 1/2	13-5 7/8														408.5			

Atchison, Topeka and Santa Fe steam engine diagrams and blueprints



CYLINDERS		WHEEL OVER TIRE	BOIL'R	FIRE BOX		FLUES			WHEEL BASE				WEIGHT IN WORKING ORDER				WATER	COAL	BOIL'R PRES.	HEATING SURFACE				GRATE AREA
DIA.	STROKE		DIA.	L'GTH	W'DTH	No.	DIA.	INSIDE LENGTH	RIGID	DRIV'G	ENG.	TOTAL	TENDER	DRIVERS	TRUCK	TOTAL ENGINE	GALS	TONS	LBS. PR SQ. IN.	FIRE BOX	FLUES	TOTAL	SUPR HTR	SQ FT.
21"	28	57"	68"	102⅛	41¼	124	2"	13'-5⅛	15'-6"	15'-2"	23'-3	50'-7½	90000	144500	17000	161500	5000	5	180	156	876.5	1441	308	29
						21	5½	13'-5⅛													408.5			