

## A&G Price Drawings – first cabinet

In mid-2018 the New Zealand Railway & Locomotive Society Inc took on custodianship of the majority of the surviving engineering drawings from A&G Price and William Cable. The Price drawings date back to the mid-1890s while the Cable drawings mostly date from after WWII.

Early A&G Price drawings appear to have been unnumbered, but early in the twentieth century Prices started listing their new drawings, and those earlier drawings that they retained, in a simple numerical system. At an unknown date they also began a separate series of detail drawings in which the number was prefixed by the letters SK. From some time in late 1930 Prices instituted a system in which they separated drawings into several groups by size. Each size was distinguished by a number prefix. The largest drawings, generally around 1000mm×700mm were assigned the prefix 5-. The drawings listed here are from this series. The NZR&LS holds some, but by no means all, 5-series drawings up to the beginning of 1957, with a handful of later tracings up to about 1970. Slightly smaller drawings, approximately 750mm×650mm, were assigned the prefix -4. The NZR&LS holds the filing cabinet in which these drawings were filed, but, apart from a handful of tracings filed in with the 5- drawings, these drawings don't appear to have survived. Small, mostly detail, drawings around 605mm×380mm were assigned the prefix 3-. The NZR&LS holds 3- series drawings from 1930 up to about 1949 (many of Price's drawings were undated). There was also a 2- series of drawings, but none of these appear to have survived. Also, apart from one photostat, the NZR&LS does not hold any of Price's early SK- series of drawings. The NZR&LS does not hold any of Price's letter books, order books, or customer files, but does hold a cabinet of stores stock cards.

The drawings came to the NZR&LS in eighteen filing cabinets. Five contain A&G Price drawings. The remainder contain William Cable drawings, mostly relating to their structural steel, lift and crane businesses. These include a group of Malcolm Moore crane drawings – Cables would appear to have been New Zealand agents for Malcolm Moore. The Price and Cable drawings are being catalogued and the relevant ones scanned by a small team of volunteers. This document lists the contents of the third cabinet.

A further 230 drawings, including general arrangements of both types of Price 16-wheeler, Price timber jacks, and many drawings of Price Tr locomotives are held by the Coromandel Heritage Trust <<http://www.thetreasury.org.nz>>.

This listing shows the Price drawing number, the title shown on the drawing (where present), the date the drawing was completed (where known), the draughtsperson (where known), the medium and the size in millimetres. Where list data are based on notes in the drawing, they are shown in curved brackets. Where they have been inferred from the compiler's background knowledge, they are shown in square brackets. The drawings are listed in the order in which they were filed by A&G Price when they came to the NZR&LS, not in numerical order.

Scans of most drawings can be supplied on USB thumbdrive. A copy of the Society's current scale of charges can be found at the bottom of the list. Scans are 300 ppi at original size and are either 8-bit greyscale or 8-bit RGB colour LZW-compressed TIFFs depending on the original. File size varies between 5 MB and 200 MB, but is generally in the range of 40–70 MB.

If you wish to purchase copies of any of the scanned drawings, please email the NZR&LS archives group at <[locoarchive@actrix.co.nz](mailto:locoarchive@actrix.co.nz)>, write to us at 1a North Street, Petone, Lower Hutt, New Zealand 5012, or telephone 64-4-568 4938 to discuss your requirements and arrange payment. You can also view the scans on screen at our Ava premises by arrangement with the archivist.

Please note that the original drawings are not held at our Ava premises. The originals are extremely fragile (particularly those produced after 1930, which are mostly pencil on tracing paper, yellowed, brittle, dirty, insect and mould-damaged, and suffering from cellulose tape repairs) and are not available to view.

## Cable-Price Grey Cabinet 8

### Drawer 1

#### 5-1029 – 5-881

#### All drawings scanned, except as noted

1029	Single-acting Track Jack Details, WWM, 28/9/26 [ink on linen]	980×660
1028	Indented Cast Steel Truck Wheels [Hadfields?], ND [ink on linen]	1030×670
1026*	Roof Principals for New Moulding Shops, 10/11/26 [Dieline print]	950×660
1026*	Roof Principals for New Moulding Shops, 10/11/26 [Dieline print]	920×630
1026	Roof Principals for New Moulding Shops, WWM, 10/11/26 [ink on linen]	960×660
1025	New Moulding Shop, 6/10/26 [ink on linen]	1020×670
1024*	HP Piston & HP Piston Valve for SS Rangitoto, 1926 [ink on linen]	1000×720
1023	Double Side-tip Truck, 3ft gauge, (Auckland Bch, JJ Craig 1926–27) [ink on linen]	1000×600
1022	Waiotahi Quarry Friction Clutch (Thames Borough Council), HWW, 5/5/27 [ink on linen]	1000×670

1021	Waiotahi Quarry Brakeband for Jig Wheel (Thames Borough Council), 8/10/26 [ink on linen]	1010×690
1020	Waiotahi Quarry Details of Lineshafts etc (Thames Borough Council), 28/9/26 [ink on linen]	980×680
1019	Waiotahi Quarry Arrangement, ND [ink on linen]	975×655
1018	Waiotahi Quarry Details of Worm, Worm Wheel, Jig Wheel, etc (Thames Borough Council), 6/9/26 [ink on linen]	975×655
1017	Circular Saw Guard Type B (Collier, Mangapeehi), checked WWM, 31/8/26 [ink on linen]	870×630
1016*	Arrangement & Details of 21¾" x 10' 0" Peebles Tubular Heater (NZ Dairy Co), 5/10/26 [ink on linen]	990×720
1015*	Arrangement & Details of 13" x 5' 0" Peebles Tubular Heater, 6/8/26 [ink on linen]	900×690
1014	Petrol Loco Arrangement 3'-6" Gauge (ACC, Carter, KTC, B Collins), 1925-1926 [ink on linen]	950×665
1013	Details of 13'-0" Turntable, Chk 26/7/26 [ink on linen]	890×670
1012	GA of 13'-0" Turntable (AFFCo), Chk HWW 26/7/26 [ink on linen]	830×655
1011A	Petrol Loco Types 4-4-0 & 0-4-0 Fordson Engine Details of Added Reverse Gear, WRB, HWW 14/5/29 [ink on linen]	1010×690
1010A	Petrol Loco Machining of Gear Box Front Plate, 1929-1949 [ink on linen]	980×635
1009	36" Diam. Revolving Screen (Auckland Bch), 31/8/26 [ink on linen]	1030×700
1009[2]	Revolving Screen (Auckland Bch – cancelled?), 22/7/26 [ink on linen]	1010×655
1008	Points & Crossings BSS 55lb Rail, copy of PWD55194 & NZR29007-10, WWM 7/10/26 [ink on linen]	980×700
1007*	Radiators for Dried Milk Process Details of Pipes Sht 2 (NZ Dairy Co Waitoa), 16/7/26 [ink on linen]	985×720
1006*	Details of Radiators for Dried Milk Process Sht 1, 16/7/26 [ink on linen]	960×690
1005	Details of Fixings for Petrol Tank for NZR Wagon, WWM 27/7/27 [dup tracing]	920×575
1005[2]	Details of Fixings for Petrol Tank for NZR Wagon, WWM 27/7/27 [ink on linen]	925×590
1004	Petrol Tank for NZR Wagon, WM 6/26 [ink on linen]	1005×710
1003	NZR Points & Crossings 55lb Rail (1:9, copy of PWD55194), ND [ink on linen]	950×725
1002	Timber Loading Truck, Chk 26/7/26 [ink on linen]	1000×690
1001	NZR Points & Crossings 55lb Rail (1:9, switch & switch box, copy of PWD55194), HWW 11/6/26 [ink on linen]	990×700
1000	Arrangement of Chassis for Motor Jigger, B Collins 1925, [ink on linen]	975×675
999	NZR Details of Frogs 55lb Rail, 4/6/26 [ink on linen]	945×570
998	Mt Eden Prison Quarry Points & Crossing (2ft gauge, copy of ADO7547), HWW 27/5/26 [ink on linen]	840×615
997	NZR Switches 53lb Rail, 27/5/26 [ink on linen]	860×555
996	Petrol Loco 2'-11" Gauge Driving Wheel (A Ross Rough & Co 1926) [ink on linen]	980×670
995A	Type Ar Loco Bogie Details, 12/4/27 [ink on linen]	1015×680
995	Type Ar Loco Draw Hook, 1925 [ink on linen]	1010×665
995(2)	Type Ar Loco Bogie Arrangement, WWM 8/4/27 [ink on linen]	995×715
994	Type Ar Loco Reversing Gear Details, ND [ink on linen]	970×715
993	Type Ar Loco Frames, ND [ink on linen]	960×725
992	Type Ar Loco Drawgear, HWW 3/3/26 [ink on linen]	905×685
991	Type Ar Loco Ash Pan Arrangement, WM 16/4/26 [ink on linen]	1020×680
990	Type Ar Loco Arrangement of Cab & Tank, 1925 [ink on linen]	1030×730
989	Type Ar Loco CI Motion Details, HWW 15/2/26 [ink on linen]	960×665
988	Type Ar Loco Brakework Arrangement, ND [ink on linen]	1015×685
987	Type Ar Loco Brake Work Forgings, ND [ink on linen]	1015×680
986	Type Ar Loco Brakework Castings, Chk HWW 7/1/26 [ink on linen]	1025×725
985	Type Ar Loco Crankshaft & Brakeshaft Bearing, Chk HWW 22/12/25 [ink on linen]	985×690
984	Type Ar Loco Axlebox 6¼"×5¾" Dia Journal, Chk HWW 9/12/25 [ink on linen]	835×675
983	Type Ar Loco Steam Control Valve, Chk HWW 13/11/25 [ink on linen]	1015×655

982	Type Ar Loco Motion Forgings, Chk HWW 7/12/25 [ink on linen]	990×685
981	Type Ar Loco Reversing Shaft Bracket, Chk HWW 15/12/25 [ink on linen]	680×640
980	Type Ar Loco Details of Castings (damaged), 26/11/25 [ink on linen]	1015×660
A979	Type Ar Loco 3½" Dia Exhaust Flexible Steam Pipe, Chk HWW 16/7/26 [ink on linen]	1035×730
979	Type Ar Loco Flexible Joint for 2½" Bore Steam Pipe, Chk HWW 8/7/26 [ink on linen]	1020×710
978	Smokebox Door & Frame for Type Ar Loco 1925 [ink on linen]	980×680
A977	Type Ar Loco Eccentric Rods & Straps, WRB, Chk HW Wilson 24/6/28 [ink on linen]	990×670
976	Type Ar Loco Road Wheels Axle & Spur Gearing, Checked HWW 12/10/25 [ink on linen]	950×690
975	Type Ar Loco Connecting Rod, Chk HWW 27/11/25 [ink on linen]	985×640
974	Type Ar Loco Crosshead, Chk HWW 12/10/25 [ink on linen]	870×705
973	Type Ar Loco Cylinders 7¾"×12", 24/9/25 [ink on linen]	990×665
972	Type Ar Loco Boiler for 160lbs Sq In Pressure, HW Wilson 4/9/25 [ink on linen]	1005×615
971	Type Ar Loco General Arrangement, 4/5/26 [ink on linen]	995×660
970	Type Ar Loco Arrangement of Stephenson Valve Gear, ND [ink on linen]	1000×700
969	Petrol Loco 2'-6" Gauge Trlg Wheel & Axle also Driving Wheel & Housing Chain Sprocket (ACC 1926), [ink on linen]	995×745
968*	Hydraulic Milk Pump Crankshaft & Connecting Rod Modification (NZ Dairy Co), 5/4/26 [ink on linen]	905×670
967	Type C Loco Skew Bevel Wheel Centre & Pinion (Watkin Bros, George Gardener) 1926-1934 [ink on linen]	985×685
965	Worm Wheel 36 Teeth & Worm 2 Start, 1926 [ink on linen]	920×715
964	Worm Wheel 53 Teeth & Worm 2 Start, WM 16/4/26 [ink on linen]	955×620
963	Circular Saw Guard (C&A Odlin Hikutaia, 1926) [ink on linen]	915×595
962	12" Dia Block (Gibbs & Trevor Ltd, 1926) [ink on linen]	955×680
961	Travelling Gantry Crane for Erecting Shop, 19/3/26 [ink on linen]	1005×680
960	Tar Dandy (Hauraki Plains County Council 1925) [ink on linen]	960×665
959	Wall Board Cutting Framework, 1925 [ink on linen]	755×640
958	Wall Board Cutting Device Details (Roller Carriage Etc), 1925 [ink on linen]	1000×685
957	Wall Board Cutting Device Details (Discs Etc), 1925 [ink on linen]	990×670
956	Wall Board Cutting Device Cutter Carriage Etc, 1925 [ink on linen]	1010×670
955	Arrangement of Wall Board Cutting Device, 1925 [ink on linen]	1000×660
954	Dredge Winch Details (Shafting), Thames Harbour Board 1925 [ink on linen]	960×680
953	Dredge Winch Details (Side Frame & Bed), Thames Harbour Board 1925 [ink on linen]	1010×695
952	Dredge Winch Details (Clutch Etc), Thames Harbour Board 1925 [ink on linen]	1015×690
951	Dredge Winch Details (Spur Wheels Etc), Thames Harbour Board 1925 [ink on linen]	1015×690
950	Dredge Winch Arrangement, Thames Harbour Board 1925 [ink on linen]	975×690
949B	Petrol Loco Brakework Details (B Collins, KTC, Carter Ohakune), Chk HWW 19/5/26 [ink on linen]	1005×720
949A	Petrol Loco Brakework Details (B Collins, KTC, Carter Ohakune), HWW May 1926 [ink on linen]	1030×730
949	Petrol Loco 3'-6" & 2'-6" Gauge Brakework Details, ND[ink on linen]	1020×705
948	Petrol Loco Details of Frame & Axle Housings, ND [ink on linen]	1000×690
947	Petrol Loco Wheel Centres & Sprockets, 10/3/26 [pencil on tracing paper, ripped]	615×610
947(2)	Petrol Loco X5097 Detail Shewing Cored Boss of Wheel Centre, 7/4/26 [pencil on tracing paper, ripped]	600×535
947	Petrol Loco 3'-6" Gauge Driving Wheel, Trailing Wheel & Chain Sprocket, HWW 10/6/26 [ink on linen]	1000×725
946	Petrol Loco Leading Bogie Details, (B Collins, KTC, Carter, ACC) HWW 18/6/26 [ink on linen]	820×635
945	Friction Gear Arrangement & Details (Thames Harbour Board, 1926) [ink on linen]	990×685
944	Brakeband & Blocks for Hikutaia Quarry (Hauraki Plains County Council, Ngatea, 1926) [ink on linen]	955×705

943	Brakework for Tip Truck (24" gauge, Hauraki Plains County Council, 1925) [ink on linen]	750x680
942	Type Ca Loco Bevel Wheel Centre & Ring (Steel Bros, Jack Bros, 1925-1929) [ink on linen]	925x650
941	Tar Boiler (Hauraki Plains County Council), Chk HWW 18/3/26 [ink on linen]	845x655
940	Shafts & Rolls for Lime Crusher (Hangatiki Lime Coy), Chk HWW 9/12/25 [ink on linen]	1015x700
939	Proposed Car Elevator for Garage Showroom [uses Price timber jacks], ND [Pencil on tracing paper, ripped]	895x645
938	Special Heavy 24" Log Block (Kauri TC, 1925) [ink on linen]	530x725
937	Ladder for Priestman Dredge (Lands Department, 1925) [ink on linen]	930x630
936	1½ Cwts Steam Hammer Cylinder in Blacksmiths' Shop, ND [ink on linen]	935x710
935	Building for Re-Erection (Prices, Thames), ND [ink on linen]	890x550
934	Logging Block Forgings (shackles & crossheads), ND [ink on linen]	1020x685
A933	Logging Block Pulleys & Yokes, ND [ink on linen]	1030x700
933(2)	Logging Block Forgings (shackles & crossheads), 4/8/25 [ink on linen]	1020x690
933	Logging Block Forgings (shackles & crossheads), [ink on linen]	1035x680
932	Bevel Wheel centre Type "E" Loco (National Timber, Midland Sawmilling 1925-26), [ink on linen]	950x700
931	Tank for Heisler 20 Ton Loco (TTT 1925), [ink on linen]	870x650
930	Regulator Details (Kempthorne Prosser's Loco), [D.48, 1925] [ink on linen]	990x695
929*	Forged MS Crankshaft 15" Throw 90° (AFFCo 1925), [ink on linen]	930x580
928	Jim Crow 30 lb Rails (Hauraki Plains CC 1925, Wilton Mine 1947), [ink on linen]	830x615
927*	Parts for Silkeborg Churn (Waitoa Factory), 15/5/25 [ink on linen]	1005x690
926	Fire Bricks for Stopper Rod of Casting Ladle, 13/5/25 [ink on linen]	550x470
925	Roof Principals Pillars & Foundations for New Erecting Shop, 22/4/25 [ink on linen]	950x645
924	Hexagon Bolts & c for Wab Loco Contract NTS, 3/25 [ink on linen]	1000x650
923	Illustration Details of Type Cb Loco (skew bevels, universals, brake block) ND [ink on linen]	1015x700
922	Illustration Details of Type Ca Loco (bevels, bevel gearbox, bearing brasses) ND [ink on linen]	990x710
921	Saw Buckles for Deal Frame (Rupehu [sic] Timber, 1925) [ink on linen]	985x705
920	Proposed Extension of Two Bays of Existing Fitting Shop (Price's, Burke St), 19/3/25 [ink on linen]	980x650
919	Geared Bogie Side Tank Locomotive (O&K?), 2/3/25 [ink on linen]	875x450
918	Engine Arrgt Cb Loco (Tunnel Timber, Rotoiti Timber, Gibbs & Trevor, ACC 1924-27) [ink on linen]	950x670
917	Arrgt for Punching Jack Shoes, ND [ink on linen]	670x610
A916	Govt D Type Loco Boiler for 160psi ([D.143] Wilsons NZ Portland Cement), HW Wilson 17/9/27 [ink on linen]	935x650
916	Boiler for Govt D Type Locomotive ([D.48] Kempthorne Prosser), 5/3/25 [ink on linen]	950x620
915	Multitubular Boiler 13'-11" x 5'-0" Dia (PWD, Steele Bros, Hokianga Dairy 1930-36) [ink on linen]	985x635
SK4422	Smoke Stack (TTT Co, 1926) [Photostat]	555x510
914	Type E Loco Reversing Gear Details (lever), Drn HWW, Tcd WRB, Chk HWW 30/5/27 [ink on linen]	1000x670
913	40 Cubic Feet Half Tine Grab, ND [ink on linen]	970x675
912*	Steam Bench Feed Engine (Tunnel T, R Manning, Watkins Bros, G Gardner, Tuck Bros, 1924-47) [Photostat]	935x535
899	Arrgt Brickwork etc for Boiler 16'-0" x 6'-0" Dia (NZ Co-op Dairy, TTT, 1924-29) [ink on linen]	980x615
912	Steam Bench Feed Engine (Tunnel T, R Manning, Watkins Bros, G Gardner, Tuck Bros, 1924-47) [ink on linen]	940x535
911	Details of Bogie for Type C Govt Loco (E Pask), 2/2/25 [ink on linen]	985x630
910	Type Cb Loco Draw-gear (Rotoiti T, ACC, Jack Bros, 1924-28) [ink on linen]	755x650
A910	Type Cb Loco Draw-gear (Gibbs & Trevor only, 1926) [ink on linen]	910x615
909	Circular Saw Guard, ND [ink on linen]	885x645
908	Winch Drum & Clutch (Steele Bros, 1924) [ink on linen]	735x565

A907	Type Cb Loco Side Tanks (Gibbs & Trevor, ACC), Checked WWM 26/4/27 [ink on linen]	930×650
907	Type Cb Loco Arrgt of Side Tanks (Rotoiti TC, 1924), [ink on linen]	840×660
906	Twitch Bar (Smyth & Boryer, Geo Gardner), 18/11/24 [ink on linen]	800×560
905	Arrgt & Details Jeffrey Clutch (Bartholomew, 1924) [ink on linen]	985×690
904	Crossbox for Cb Loco (Tunnel TC, Rotoiti TC, G Gardener, MSD, Taringamutu SM, 1924–34) [ink on linen]	990×685
903	Pin Saw Fence (E&B), 5/12/24 [ink on linen]	975×670
902	Star Bit Attachment (C Bedford), 27/11/24 [ink on linen]	875×655
901	Side-feed Deal Frame (FJ Carter, GA Gamman, FW Peddle), 12/3/25 [ink on linen]	1010×700
901A	Side-feed Deal Frame (FJ Carter, GA Gamman, FW Peddle, Fletcher T), WWM 15/9/26 [ink on linen]	1010×700
900	Type Cb Loco Details of Lineshafts (Tunnel TC, Rotoiti TC, Gibbs & Trevor, ACC, Jack Bros), Drawn HWW, Traced WRB, Checked HW Wilson 23/6/28 [ink on linen]	1000×605
897	One Ton Winch (PWD Hamilton, 1924) [ink on linen]	950×695
896*	Pump Body for Hydraulic Milk Pump (NZ Dairy Co), 15/10/24 [ink on linen]	935×610
895*	Hydraulic Triple Milk Pump Body (NZ Dairy Co, 1924), [ink on linen]	975×685
893*	Hydraulic Triple Milk Pump (NZ Dairy Co), 2/10/24 [ink on linen]	955×660
895A*	Rearranged Body for Hydraulic Milk Pump (NZ Dairy Co), ND [ink on linen]	970×605
894*	High Pressure Milk Pump (NZ Dairy Co, 1924), [ink on linen]	950×640
892A	Truck Frame (Ross Rough & Co) 25/8/26 [note by WWM 29/11/26] [ink on linen]	750×680
892	Truck Frame (Ross Rough & Co, 1924) [note by WWM 29/11/26] [ink on linen]	855×600
891	18"×12" Single Gate Deal Frame, 21/7/24 [ink on linen]	635×675
890	Std Truck Wheels, ND [ink on linen]	1000×675
889	Std Truck Wheels, ND [ink on linen]	990×670
888	Std Truck Wheels, ND [ink on linen]	990×670
887	Bench Engine Control Gear (Tuck Bros, Taupo), ND [ink on linen]	525×700
886	Arrgt Brickwork &c for Boiler 15'-9½"×5'-5" Dia 72 HP (McLeod & Gardner, Hastings, 1924) [ink on linen]	980×615
–*	Cheek for Flax Beating Machine Plan of Roller Bearing, ND [pencil on tracing paper]	360×530
885*	Arrgt Brickwork for Boilers (Norfolk Dairy Co, Sunny Park Dairy Co), 21/6/24 [ink on linen]	870×575
884*	Arrgt Brickwork for Boiler 16'-0"×6'-0" Dia (NZ Co-op Dairy Co, 1924), [ink on linen]	995×650
883*	Details of Furnace Door Lever Etc, ND [ink on linen]	380×625
882*	Alterations to Zenith Fire Grate, ND [ink on linen]	945×650
881	Cb Loco Engine Details (Tunnel TC, Rotoiti TC, Gibbs & Trevor, ACC, 1924–27) [ink on linen]	1010×685
881(2)	Type Cb Loco Engine Bedplate Crankshaft & CI Details (Jack Bros), Drn HWW, Trd WRB, Chk HWW 21/10/27 [ink on linen]	920×650

Drawings marked with \* not scanned.

## Drawer 2

### 5-880 – 5-778

#### All drawings scanned, except as noted

753	Arrangement of Geared Bogie Locomotive (E, Selwyn TC, National TC) Superseded by A753, ND [ink on linen]	1020×695
753(2)	9"×12" Geared Bogie Locomotive Type E (incomplete, ND), [ink on linen]	935×605
815	Arrangement of Cab & Tank Type E Loco 12"×9" Cyls (Selwyn TC, E&B Mangapeehi), ND [ink on linen]	1015×705
815A	Type E Loco Arrangement of Cab & Tank (Midland Sawmilling Co, 1926), [ink on linen]	1020×700
697	Locomotive Boiler (Passed Gvt Inspector 25/9/08 Geared Loco Details Type C, Watkins, Taringamutu) [ink on linen]	945×670
A657	Type Cb Loco Cylinder Column & Change Speed Gear (Tunnel TC, Rotoiti TC, Gibbs, ACC, Jack Bros), HWW 24/9/26	980×680

646	Arrgt Geared Bogie Loco Type C, M 6/12/20 [Watkins] [film copy]	990×685
651	Details of 7"×8" Stroke Engine for Geared Loco (Type C) (Watkins, Taringamutu, SB&B), M 13/4/21	1015×695
647	Proposed Alt to Existing 1908 Log Hauler Boiler BK Knight [Watkins Bros C], M 16/4/19 [ink on linen]	1020×685
A658	Type Cb Loco Motion & Reversing Gear Details (E&B, SB&B, Marton S&D), HW Wilson, WRB 27/7/27 [ink on linen]	1000×675
700	Details of Geared Loco Type C (Crossbox for C [Taringamutu] & D), ND [ink on linen]	1015×680
648	Details of Geared Loco Type C (Crossbox) [Watkins], M 13/5/21 [ink on linen]	1020×685
654	Arrangement of Frame for Geared Loco Type C, M 15/8/19 [ink on linen]	1015×690
650	Bedplate for 7"×8" Engine of Geared Loco Type C (& Tunnel TC, Rotoiti TC Cb), M 9/3/21 [ink on linen]	1020×695
657	Details of Column for Cylinders & Change Speed Gear Loco Type C (& Ca, Cb), M 29/4/21 [ink on linen]	1015×685
880	Cheek for Flax Beating Machine (torn fragments) [pencil on tracing paper]	
756	½-ton Winch (torn fragment) [pencil on tracing paper]	
820	Steam & Handbrake Details Type E Loco (Selwyn, National, Midland, Jack, Ogilvie 1926–42) [mirrored photostat]	940×645
879	Expansion Bit (Taupiri Coal Mines, 1924) [ink on linen]	880×670
816	Smokebox Doors & Frames for Locos (E, Ca, Cb), 9/10/23, 9/10/23 retraced HW Wilson, WRB 14/2/28 [ink on linen]	945×660
827	Type E Loco Regulator with Pilot Valve (Selwyn TC 1926) [ink on linen]	1000×700
659	Details Geared Loco Engine Type C [& Cb?](Eccentric rod & sheaves, exhaust branch pipe), M 27/4/21 [ink on linen]	1020×690
652	Cylinders 7" Dia for 8" Stroke Engine Geared Loco Details Type C (& Ca, Cb), M 5/5/21 [ink on linen]	1015×690
661	Geared Bogie Loco Details Type C (Steps, Drawbar, Tie Rods, Watkins, Taringamutu), M 14/3/21 [ink on linen]	1035×715
655	Type C Loco Shafting & Spur Gears, ND [ink on linen]	990×680
660	Winch Gear Details for Geared Loco Type C [Watkins], M 6/4/21 [ink on linen]	1015×690
747	Boiler for 9"×12" Geared Locomotive (Selwyn TC), [aam or aaw] 22/1/23 [ink on linen]	850×580
A747	Boiler for 9"×12" Geared Locomotive Type E (Midland SMC), modified HWW 19/10/26 [ink on linen]	875×575
A783	Type E Loco Bogie Details (National TC, Midland SMC, Syme), 10/12/26 [ink on linen]	1010×680
775	Road Wheel & Coupling Rod for 9"×12" Geared Loco Type E (Selwyn 28" see 1040 for 30"), 22/5/23 [ink on linen]	870×600
774	Engine Frame for 9"×12" Loco Type E (Selwyn TC, National TC, Midland SC, c1926) [ink on linen]	1015×660
769	9"×12" Cylinder for Geared Loco Type E (Selwyn TC, E&B), [aam or aaw] 20/4/23 [ink on linen]	885×660
A769	Type E Loco 9½"×12" Cylinder (Midland SMC, Symes 1926), WWM 23/11/26 [ink on linen]	960×670
A753	GA Type E Locomotive [Midland SMC?] (supersedes 753), 8/3/28 [ink on linen]	1005×615
813	Steam Regulator Details for Type E Loco 9"×12" Cylinders [Selwyn TC], ND [ink on linen]	965×675
811	Regulator Arrangement Type E Loco ND (Selwyn TC), [ink on linen]	970×690
809	Type E Loco 9"×12" Cylinders Ash Pan & Expansion Bracket Arrangement (Selwyn TC), WW Marshall 28/5/24 [ink on linen]	1000×680
807	Details of Axles Type E Loco 9"×12" Cyls (Selwyn TC, National TC, Midland SMC, c1926) [ink on linen]	1025×700
A807	Type E Loco Axles (Midland SMC), WRB, HWW 26/5/27 [ink on linen]	995×695
806	Details of Eccentric Rods & Crank Disc Shaft Type E Loco 9"×12" Cyls (Selwyn TC), ND [ink on linen]	830×620
805	Motion Details for Type E Loco (Selwyn TC, National TC, Midland SMC, c1926) [ink on linen]	925×630
804	Motion Details & Crank Disc Type E Loco (Selwyn TC, National TC, Midland SC (c1926) [ink on linen]	990×665
829	Firedoor Arrgt for Type C & Type E [Ca, Cb & Ar] Locos (1923–44) [ink on linen]	980×615
828	Bogie Arrgt for 9"×12" Geared Loco Type E (Selwyn TC), ND [ink on linen]	945×680
A752	Type E Loco Bevel Gear & Gear Box (Symes, Midland SC), ND [ink on linen]	1000×675
B747	Type E Loco Boiler for 180psi, HW Wilson 13/2/28 [ink on linen]	1010×665
808	Detail of Buffer Beam & Struts Type E Loco (Selwyn TC), HWW 1/9/23 [ink on linen]	885×615
797	Brake Details for Type E Geared Loco (Selwyn TC), ND [ink on linen]	955×680

790	Connecting Rod for Type E Loco (Selwyn, National TC, Syme, E&B), ND [ink on linen]	1020×700
783	Bogie Details for 9"×12" Geared Loco Type E (Selwyn TC), [aam or aaw] 29/5/23 [ink on linen]	955×670
826	Detail of Leading Buffer Beam & Strut (E, Selwyn TC), Checked HWW 26/5/24 [ink on linen]	985×700
825	Plan of Drilling in Side Framing & Footplate Type E Loco (Selwyn TC, 1923) [ink on linen]	1025×685
824	Type E Loco 9"×12" Cylinders Piping Arrgt (Selwyn TC, 1923) [ink on linen]	915×600
822	Brake Shoe & Blocks Types E, Ca Locos (Selwyn, National, Steel, Midland, Jack, Ogilvie 1926–42) [ink on linen]	950×635
820	Steam & Handbrake Details Type E Loco (Selwyn, National, Midland, Jack Bros, Ogilvie 1926–42) [ink on linen]	940×635
818	Safety Valve for Type E Loco, (Selwyn TC ND) [ink on linen]	885×680
A818	Type E Loco Safety Valve (Midland, Ogilvie, Auck Gas Co, Wilsons Portland Cement), WRB/HWW 10/5/27 [ink on linen]	1000×660
817 linen]	Details of Lineshaft & Universal Joint Type E Loco (Selwyn TC, National TC, Midland SC), HW Wilson, passed GP 24/10/23 [ink on 970×700	
800	Type E Loco Arrgt of Stephenson Valve Gear (Midland SC), HW Wilson 10/8/28 [ink on linen]	940×635
878	Logging Friction Winch Arrgt (BOP TC, E&B, Moon & Williams, Lake Brunner SM 1924–28) [ink on linen]	820×640
A878	Logging Friction Winch Arrgt (BOP TC, E&B, Moon & Williams, Lake Brunner SM, HVB), WRB/WWM 10/4/28 [ink on linen]	1005×665
877	18"×12" & 24"×12" Gate Deal Frame Views Shewing Gate & Saw Position (Odlin, Peddle, 1924–26) [ink on linen]	935×710
876	1½" Check Valve (McLeod & Gardener, NZ Dairy, TTT, PWD Samoa), Chk 27/6/24 [ink on linen]	880×565
875	Multitubular Boiler 16'-0"×6'-0" Dia 69HP (NZ Co-op Dairy, TTT), Chk HWW 27/5/24 [ink on linen]	1000×635
874A	Boiler for Type Cb Loco (Tunnel TC, Rotoiti TC), mod 23/11/26 HWW [ink on linen]	1000×695
874	Revolving Screen, ND [pencil on paper]	785×410
873	Safety Valve for Boilers 40HP & Under (Norfolk Dairy, Steel Bros, c1924) [ink on linen]	995×660
872	Multitubular Boiler 15'-9½"×5'-5" Dia×120psi 72HP (McLeod & Gardener), 1924 [ink on linen]	1025×665
871*	Multitubular Boiler 11'-10¾"×4'-5-1/8" Dia 120psi 40HP (Norfolk Dairy), 1924 [ink on linen]	945×665
870	Multitubular Boiler 9'-11"×4'-2" Dia×120psi 30HP (Steel Bros, Stedmen, Sweets), HWW 9/4/24 [ink on linen]	950×670
869	Multitubular Boiler 11'-10"×4'-2" Dia 120psi 35HP, ND [pencil on tracing paper]	760×325
869(2)*	Multitubular Boiler 11'-10"×4'-2" Dia 120psi 36HP (Sunny Park Co-op Dairy, 1924), [ink on linen]	1010×650
868A	Type Cb Loco Arrgt of Cab & Tank (Gibbs & Trevor, ACC) WWM 19/4/27 [ink on linen]	955×690
A867	Type Cb Loco Ash Pan Arrgt (Gibbs & Trevor, ACC, Jack Bros), WWM 12/5/27	915×645
836	Frame Arrangement Shewing Drilling Type Cb Loco (Tunnel TC, Rotoiti TC), 1/10/24 [ink on linen]	1010×700
863	Type Cb Locomotive Cylinders 7"×8" [GA] (Tunnel TC, Rotoiti TC), ND [ink on linen]	995×640
A863	Type Cb Locomotive [GA] (Gibbs & Trevor, ACC), ND [ink on linen]	990×585
862	Bogie Arrangement Type Cb Loco (Tunnel TC, Rotoiti TC, Gibbs & Trevor, ACC, 1924–27) [ink on linen]	1005×660
A862	Type Cb Loco Bogie Arrangement & Details, HW Wilson 15/6/27 [traced WRB] [ink on linen]	1005×675
B874	Type Cb Loco Boiler for 180psi (Gibbs & Trevor, ACC, Jack Bros, Coal Oil NZ), HW Wilson 16/2/27 [ink on linen]	995×660
834	Type Cb Loco Position of Line Shaft etc (Tunnel TC, Rotoiti TC, 1924), [ink on linen]	620×590
858	Type Cb Loco Road Wheel & Axle (Tunnel TC, Rotoiti TC, 1924) [ink on linen]	850×650
868	Type Cb Loco Arrangement of Cab & (rear) Tank (Tunnel TC, 1924) [ink on linen]	965×705
867	Type Cb Loco Ash Pan & Expansion Bracket Arrangement (Tunnel TC, Rotoiti TC 1924) [ink on linen]	980×685
866	Brakework Details for Type Cb Loco (Tunnel TC, Rotoiti TC, Gibbs & Trevor, ACC, 1924–27) [ink on linen]	1015×680
865	Bogie Centre Casting Type Cb Loco (Tunnel TC, Rotoiti TC, Gibbs & Trevor, ACC, 1924–27) [ink on linen]	970×670
864	Axle Box for Type C [Cb] Loco (Tunnel TC, Rotoiti TC, Gibbs & Trevor, ACC, 1924–27) [ink on linen]	840×630
861	Smoke Box Door & Frame for Ca [Cb?] Type Loco (Tunnel TC, Rotoiti TC), Checked HWW 21/6/24 [ink on linen]	945×610
860	Control Valve for Type Ca & Cb Locos (Steel, Tunnel TC, Rotoiti TC, Gibbs & T, ACC, Jack B, 1924–28) [ink on linen]	1005×640
859	Type Cb Loco Skew Bevel Wheel Centre & Pinion (Tunnel TC, Rotoiti TC, Gibbs & T, ACC, 1924–27) [ink on linen]	1000×635

857	Steam Bench Feed Engine Control Valve Box & Valve Liner (Watkins, Gardner, Tuck), Chk HWW 2/7/24 [ink on linen]	790×590
856	Disc Type Cast Steel Crankshaft for Steam Bench Feed Engine (Tuck, G Gardner), 10/7/25 [ink on linen]	1005×590
A855	Bench Engine Winding Gear Details, ND [ink on linen]	895×635
855	Steam Bench Feed Engine Details of Valves &c (Tuck, Watkins, Gardner, Syme), Chk HWW 21/3/24 [ink on linen]	1030×720
854	5"×6" Steam Bench Engine Details of Castings (Tuck Bros), Checked HWW 19/3/24 [ink on linen]	1020×700
853	Detail of 5"×6" Cylinders for Steam Bench Feed Engine (Tuck Bros), Checked HWW 15/3/24 [ink on linen]	1020×710
852	Connecting Rod of Breaking Down Frame (E&B Ongarue), ND [ink on linen]	965×695
850	3" Dia Angle Stop Valve (Hicksons, etc 1928–46) [ink on linen]	945×660
848	Brakework Details for Type Cb Loco (Tunnel TC, Rotoiti TC, Gibbs & Trevor, ACC, 1924–27) [ink on linen]	1000×665
847	Brakework Arrangement Type Cb Loco (Tunnel TC, Rotoiti TC, Gibbs & Trevor, ACC), 13/10/24 [ink on linen]	935×640
846	Chain Sprockets & Feed Roller Gear for Single Gate Deal Frame, ND [ink & pencil on tracing paper]	555×675
?	Details for 18"×12" Single Ga... (Makotuku TC, Gamman), ND [portion of photostat copy]	340×390
844	Water Tank & Fuel Bunker for Climax Type Loco, 6/10/23 [ink on linen]	915×680
843	Dipper Dredge Bucket, ND [ink on linen]	920×595
842	[rear tank for] "A" Type Loco (E&B), 8/10/23 [pencil on tracing paper]	605×530
841	Eccentric Strap for Climax Loco, 8/10/23	540×435
840	Breaking Down Saw Carriage Long & Short Side Castings, ND [ink on linen]	865×625
A838	Type Cba Loco Cylinders 7½" Dia×8" Stroke Inside Admission (Jack Bros), WRB 13/12/28 [ink on linen]	995×675
838	Cylinders 7" Dia×8" Stroke for Type Cb Loco (Tunnel, Rotoiti, Gibbs, ACC/E&B, Jack, 1924–28) torn [ink on linen]	975×635
833	Arrangement of Cab & Tank Type Ca Loco Also Cba (Jack Bros, 1928) [ink on linen]	980×670
832	Details of Universal Joint for Type Ca Loco (Steel, Tunnel, Rotoiti, Gibbs, ACC, Jack), HWW/GP 27/11/23 [ink on linen]	905×590
831	Bogie Details for Type Ca Loco (Steel Bros, Jack Bros, 1928) [ink on linen]	975×695
835	Type Cb Loco Arrangement of Side Tanks (Tunnel TC, Rotoiti TC, 1924) [ink on linen]	875×650
830	Bevel Gear & Gearbox for Type Ca Loco (Steel Bros, Jack Bros), HWW, passed GP 30/11/23	825×580
A783	[part] Portion of Type E Loco Bogie Details (TTT, Symes, Wanganui S&D, E&B Ongarue), ND [photostat]	225 ×355
801	10 Ton Traversing Jack (Auckland Branch), Checked HWW 28/5/24 [ink on linen]	960×690
799	Spur Gearing for Type Ca [ & Cb, Cba] Loco (Steel, Tunnel, Rotoiti, Gibbs, ACC, Jack), HWW 5/9/23	950×520
794	Machine Detail, ND [pencil on tracing paper]	500×500
793	Breaking Down Saw Carriage Details, ND [ink on linen]	930×660
792	Breaking Down Saw Carriage, ND [ink on linen]	975×660
791*	2½" Silkeborg Pump, ND [ink on linen]	910×655
789	Details of Breast Bench & Breaking Down Saw Spindle, ND [ink on linen]	955×640
787	Dragline Bucket (Piage) Drawn 7/7/23, retraced 8/25 [ink on linen]	875×665
786	6" Retaining Valve for 600 Feet Head, 29/6/23 [ink & pencil on tracing paper]	590×520
785	Method of Reversing Double Cylinder Steam Winch Without Link Motion, ND [pencil on tracing paper]	840×670
784	Details for Breast Bench Saw (surviving portion) ND [pencil on tracing paper]	810×645
A783	Type E Loco Bogie Details (National TC, Midland SMC, Syme), 10/12/26 [photostat mirror image]	1010×680
787	Dragline Bucket, 7/7/23, retraced 8/25 HWW [torn, ink on tracing paper]	890×670
782	Side Tip Truck for Thames Quarries Ltd, 26/5/23 [torn, ink on tracing paper]	895×520
781*	Illustration Details of Improved Victoria Churn, ND [ink on linen]	1020×700
779	Bearing block [log bogie?], ND [pencil on tracing paper]	760×405
778	22" Road Wheel & Coupling Rod for Type Ca Geared Loco (Steel), [aaw or aam] 22/5/23 [ink on linen]	610×675
A778	Type Cba Loco Road Wheel Coupling Rod Lubricator & Axles (Jack Bros), WRB, HW Wilson 28/9/28 [ink on linen]	995×670



777	Proposed Chute for Roadmetal Bin, ND [pencil on tracing paper]	380×785
776*	Five-branched Steam Header, 9/5/23 [ink on linen]	630×420

Drawings marked with \* not scanned.

### Drawer 3

#### 5-774 – 5-585

#### All drawings scanned, except as noted

642	8" Gane Vacuum Pump Details (Hare Bros, Evans Bros), checked WWM, 9/9/26 [ink on linen]	1005×660
773	Five-branched Steam Header, AAM or AAW, 3/5/23 [ink on linen]	770×470
?	Plate Store Shed (fragment), ND [pencil on tracing paper]	440×505
770	Road Wheel for Type 24" Geared Loco [16whl O/No.Z7703, CI centre, steel tyre], ND [ink on linen]	495×635
768*	No.6 Plunger & Cylinder for Silkeborg Pump (NZ Dairy, 1924) [pencil on tracing paper]	600×650
767	8" Logging Block Type K Heavy, 9/4/23 [ink on linen]	610×690
766	Details for 18"×12" Single Gate Deal Frame (Odlin, E&B, Ruapehu, Smith 1923–24) [ink on linen]	975×680
765	18"×12" Single Gate Deal Frame, 5/6/23 [ink on linen]	610×630
765A*	General Arrangement & Foundation Plan 18"×12" Single Gate Deal Frame ND [photostat mirror image]	980×665
765(2)*	General Arrangement & Foundation Plan 18"×12" Single Gate Deal Frame ND [photostat mirror image]	980×675
765A(2)	General Arrangement & Foundation Plan 18"×12" Single Gate Deal Frame ND [dieline print]	1020×675
765(3)	General Arrangement & Foundation Plan 18"×12" Single Gate Deal Frame ND [photostat mirror image]*	985×665
765(4)	General Arrangement & Foundation Plan 18"×12" Single Gate Deal Frame ND [ink on linen]	985×665
764	Break Down Frame (E&B), 7/22 [ink on linen]	570×745
763	Break Down Frame (E&B), ND [ink on linen]	585×760
761*	Details for 18"×12" Single Gate Deal Frame ND [photostat mirror image]	980×670
761(2)	Details for 18"×12" Single Gate Deal Frame (Odlin, E&B, Ruapehu, Smith, Syme etc, 1923–56) [ink on linen]	990×675
760	Details for 18"×12" Single Gate Deal Frame (Odlin, E&B, Ruapehu, Smith, Syme etc, 1923–57) [ink on linen]	1010×680
760(2)	Details for 18"×12" Single Gate Deal Frame (Odlin, E&B, Ruapehu, Smith, Syme etc, 23–57) [photostat ripped]	1000×675
759A	Details for 18"×12" Single Gate Deal Frame (Odlin, E&B, Ruapehu, Smith, Syme etc) rtc GJC 17/3/49 [ink on linen]	990×675
758*	Details for 18"×12" Single Gate Deal Frame (Odlin, E&B, Ruapehu, Smith, Syme etc, 1924–56) [dieline print]	1020×690
758(2)	Details for 18"×12" Single Gate Deal Frame (Odlin, E&B, Ruapehu, Smith, Syme etc, 1924–56) [ink on linen]	980×705
758(3)*	Details for 18"×12" Single Gate Deal Frame (Odlin, E&B, Ruapehu, Smith, Syme etc, 1924–56) [photostat ripped]	965×700
678	Details of 5" Bore×4" Stroke Cross Cut Saw (Gardner, Cashmore, MSD, E&B, TTT, Tuck, etc) 22/3/21 [ink on linen]	970×685
677	Arrgt of Cross Cut Saw Steam Driven 5"×4" (Gardner, Cashmore, MSD, E&B, TTT, Tuck, etc) M 21/4/21 [ink on linen]	1020×695
676A&B	Logging Block Hollow Sheave Type 15½" Dia (Ligerwood – SF, E&B) M, TM, 22/3/21 [ink on linen]	1020×690
674	Special Light Type Logging Block 12" Dia, M, TM, 30/3/21 [ink on linen]	1020×695
673	Details of Bottom Geared Deal Frame, M, TM, 17/3/21 [ink on linen]	1020×695
672	Details of 6"×9" Stroke Double Purchase Winch, M, TM, 18/5/21 [ink on linen]	1020×690
671	Details of 6"×9" Stroke Double Purchase Winch, M, TM, 16/5/21 [ink on linen]	1015×690
670	Details of 6"×9" Stroke Double Purchase Winch, M, TM, 18/5/21 [ink on linen]	1020×685
669	Details of 6"×9" Stroke Double Purchase Winch, traced TM, 20/5/21 [ink on linen]	1020×690
668	Details of 6"×9" Stroke Double Purchase Winch, M, TM, 27/5/21 [ink on linen]	1020×695
667	Detail of Cylinder 6"×9" Stroke for Double Purchase Winch (Colonial Sugar Co), M, TM, 25/5/21 [ink on linen]	1020×690
666	Arrangement of Double Purchase Winch Cylrs 6" Dia×9" Stroke [end], ND [ink on linen]	1015×695
666(2)	Arrangement of Double Purchase Winch Cylrs 6" Dia×9" Stroke [side & plan], M, TM, 10/6/21 [ink on linen]	1015×690

658	Details of Reversing Gear for 7"×8" Stroke Engine for Geared Loco Type C [Ca, Cb], M, TM, 20/4/21 [ink on linen]	1015×695
656	Brake Gear Details for Geared Loco Type C (& D), M, TM, 7/5/21 [ink on linen]	1020×695
757	Foundation Plan for 18"×12" Single Gate Open Deal Frame, AAM, 26/2/23 [ink on tracing paper, part missing]	410×470
771	Building, ND [pencil on tracing paper, most missing]	520×520
752	Bevel Gear & Gearbox for 9"×12" Geared Loco Type E (Selwyn, National, Midland, 1926) [ink on linen]	760×650
752(2)	Bevel Gear & Gearbox for 9"×12" Geared Loco Type E (Selwyn), AAM or AAW, 10/5/23 [ink on paper]	760×660
751	Cast Steel Wheel (gear? Watkins Bros drawing) ND [pencil on paper]	730×510
750	Saw Buckles for Breaking Down Frame, ND [ink on paper]	445×715
749	24" Plamandon Clutch (Hoyle Sawmill, 1923), Checked HWW, 6/8/26 [ink on linen]	820×690
749(2)	24" Plamandon Clutch (Hoyle Sawmill, 1923), ND [ink on paper]	685×560
746	Valve for Hydraulic Riveter, ND [ink on linen]	815×590
743	GA of Type D Geared Locomotive, as altered subsequent to Z5929, AAW, 25/12/22 [ink & pencil on paper, incomplete]	760×550
745	Copper coil &c, ND [ink on linen]	480×535
744	Locomotive Bushes (E&B Ongarue, 1923) [pen on paper]	550×370
742	Eccentric Sheaves for Geared Loco Type C (& Ca, Cb) (Gibbs, ACC, Steele, Smythe, NFSM, 1926–69) [ink on linen]	640×680
742[2]*	Eccentric Sheaves for Geared Loco Type C (Cb?) (Gibbs, ACC, Steele, Smythe, NFSM, 1926–69) [reversed photostat]	640×680
741	Details Geared Loco Type Ca & Cb [conn rod etc] (Steele, TTC, Rotoiti TC, Gibbs, ACC, Jack 1924–28) [ink on linen]	800×695
740	10" Logging Block (WC Clement) Checked 14/8/26 [ink on linen]	850×710
739	30 Cubic feet Half Tine Grab {Low Purchase}, AAM, 5/12/22 [ink on paper]	950×630
739[2]	30 Cubic feet Half Tine Grab (Low Purchase), AAM, 5/12/22 [ink on linen]	960×645
738	[Differential housing & bevel gears] ND [ink on paper]	690×425
737	Steam-Cock Stand Geared Loco Type D, AAM, 16/11/22 [ink on paper]	525×460
736	Foundation Plan 8"×12" Doubledrum Steam Winch, AAM, 15/11/22 [ink on paper]	560×455
735	35 Cubic feet Half Tine Grab {Low Purchase}, AAM, 17/11/22 [ink on paper]	975×680
735[2]	35 Cubic feet Half Tine Grab (Low Purchase), retraced 6/7/25 [ink on linen]	990×695
734	2¾" Truck Bearing [amendments 5/12/22 & 21/5/23] [ink on paper]	495×555
733	Single Gate Open Deal Frame ND [ink on linen]	780×530
732	Brake & Change Gear Details Type D ND [ink on paper]	920×685
732[2]	Type D Loco Brake & Change Speed Details ND [ink on paper]	945×685
731	[crankshaft] ND [ink on linen]	1030×285
729	Crankshaft Bearing for 8"×12" Steam Double Drum Winch 28/10/22 [pencil on paper]	865×690
728	Dome for Loco Boiler for 9½" Cyl Bogie Eng [Eng D] [D.170/D.576] ND [ink on linen]	590×530
727	Type D Loco Arrangement of Frame ND [ink on linen]	990×610
727[2]	Arrangement of Frame for Type D Geared Loco ND [ink on paper]	1015×660
726	Shafting, Universal Joint, Road Wheel for Type D Geared Loco ND [ink on paper]	1010×685
725	Bogie for A Locomotive Ellis & Burnand Ltd ND [ink on linen]	970×690
724	Cross Box for Type D Geared Loco ND [ink on paper]	760×680
723	Feed Details for Breakdown Frame ND [pencil on paper]	900×680
722	Motion Details for Type D Geared Loco ND [ink on paper]	760×720
721	Break Down Frame ND [ink on paper]	985×690
720	[shaft hanger for break down frame?] ND [pencil on paper]	700×710
719	[beam for break down frame] ND [pencil on paper]	825×605
718	Type D Loco [gearbox? also sketches on reverse of sheet] ND [pencil on paper]	1020×690

717	Type D [cylinders & cylinder column] ND [pencil on paper with ink amendments]	980×695
716	Piston & Connecting Rods for Type D Geared Loco ND [ink on linen]	915×525
714	Boiler for Geared Locomotive Type D (not used) – 3 foolscap sheets attached, AAM, 1/9/22 [ink on paper]	765×595
714A	Boiler for Geared Loco Type D 6/12/22 [ink on paper]	765×595
713	Centrifugal Pump and Bracket 30/8/22 [ink on paper]	820×655
712	Stays for Loco Boiler for 9½" Cyl Bogie Engine "Eng D" [D.170/D.576], AAM, 29/8/22 [pencil on paper]	940×620
711	Firebox for Loco Boiler for 9½" Cyl Bogie Engine (Eng D) [D.170/D.576] ND [ink on paper]	840×630
710	Loco Boiler for 9½" Cyl Bogie Engine Eng D (No.7 erased, Hawkes Bay Farmers Meat) [D.170/D.576] ND [ink on paper]	885×620
709	Water-Cooled Ring-oiling Bearing ND [pencil on paper]	790×665
708	10" Breaking-out Block ND [ink on linen]	560×675
707	3" Truck Bearing (Barts, Makotuku TC, MSD, National, Uepongo, Tunncliffe, Tauhara, Wicks) ND [ink on linen]	490×455
706	(Crosshead for stationary engine?) ND [ink on linen]	590×350
705	Truss for Chassis of 4 Ton F.W.D. Truck ND [ink on linen]	425×265
704*	Illustrations of Miscellaneous Details for NZ Co-op Dairy Co ND [ink on linen]	1030×690
701*	Illustration Details of Silkeborg Churn 17/8/23 [ink on linen]	1020×685
699	Log Ropeway Details 27/6/22 [ink on linen]	825×685
698	Digester for 80 lbs pressure per sq inch ND [ink on linen]	590×670
696	Revolving Screen for Piako County Council ND [ink on linen]	930×255
695[1]*	Details of Corrugated Rolls for Hangatiki Lime Ltd ND [pencil on paper]	1015×685
695[2]*	Corrugated Rolls for Hangatiki Lime Ltd 18/11/21 (clipped to [1]) [ink on paper]	505×335
695[3]*	Sliding Pedestals for Hangatiki Lime Ltd ND (clipped to [1]) [ink on linen]	650×290
695[4]*	Bearings for Corrugated Rolls Hangatiki Lime Ltd ND [ink on linen]	285×395
695[5]*	Cast Steel Rolls for Hangatiki Lime Ltd ND [ink on linen]	390×220
695[6]*	Gear Wheel 20 teeth 2½" cir Pitch in Cast Iron Hangatiki Lime Ltd ND [ink on linen]	335×240
695A	General Arrangement of Corrugated Rolls for Hangatiki Lime Ltd 1929 [ink on linen]	1025×690
695[7]	Details of Bearings, Pedestals, Bolts, Etc for Hangatiki Lime Ltd, WRB, HW Wilson, 25/11/29 [ink on linen]	1010×675
694	Metal Skips for Blue Metal Co, Waikino 22/11/21 [ink on linen]	1000×705
693*	Illustration Details of Improved "Victoria" Churn ND [ink on linen]	1015×690
692*	Illustration Details of Improved "Victoria" Churn ND [ink on linen]	1020×695
687A	Full Size Plan View of Forging Machine, G Merz, 22/7/21 [ink on linen]	1040×685
684	Conn Rod & Frame Details Crosscut Saw Type A (Egmont Box, Gardner, Cashmore, E&B etc 1938–44) [ink on linen]	1000×665
686	Details Plates for Frame Crosscut Saw Type A (Egmont Box, Gardner, Cashmore, E&B etc 1938–44) [ink on linen]	1005×685
685	Detail of Timber Frame Crosscut Saw Type A (Egmont Box, Gardner, Cashmore, E&B etc 1938–44) [ink on linen]	955×680
683	Saw Holder, Guide etc Crosscut Saw Type A (Collier, Taringamotu, Tuck, Barts, TTT etc ND) [ink on linen]	1010×665
682	Details of Saw Stroke Crosscut Saw Type A (Gardner, Cashmore, Collier, Tuck, E&B, State Coal etc ND) [ink on linen]	1015×690
681	Connecting Rod, Crosshead Etc Crosscut Saw Type A (Gardner, Cashmore, Collier, etc ND) [ink on linen]	1015×690
680	Crankshaft Flywheel Bearings Etc Crosscut Saw Type A (Gardner, etc) 31/3/21 [ink on linen]	1015×705
679	Crankcase 5" Bore×4" Stroke Crosscut Saw (Replaced by 4–11545) Checked 26/5/24 [ink on linen]	1020×675
655	Shafting & Spur Gear for Geared Loco Type C (Watkins, Taringamutu) M, TM, 18/4/21 [ink on linen]	1015×700
653	Details of Geared Loco Type C (& D) [Bogie centre, kingpin & bolster] M, TM, 9/4/21 [ink on linen]	1015×690
649	Geared Loco Details Type C [Watkins](& D) [Bevel Pinion, Wheel, Axlebox Bearing] M, TM, 11/5/21 [ink on linen]	1015×690
619A&D	4, 1 & 2-Ton Bottle Jacks (Daunton, NZR), M, JB, 6/4/20 & 6/3/21 [ink on linen]	1005×685
617	30 Cubic Feet High Purchase Half Tine Grab, M, 19/6/20 [ink on linen]	1020×685

616B*	Illustration Details of Topliss Combined Churn & Butterworker, ND [ink on linen]	970×705
615	18" Dia Logging Block ND [ink on linen]	1020×685
615A	KType 18" Dia Logging Block ND [ink on linen]	955×660
614	Arrangement of Overwinding Safety Detaching Hook, M, 4/12/17 [ink on linen]	1020×690
612	Oil Engine Details Type A, M, 24/2/19 [ink on linen]	1015×695
611	Oil Engine Details Type A, M, 24/2/19 [ink on linen]	1020×690
610A	Disposition of Foundation Bolts, Extreme Lengths, Width & Height Utility Oil Engine Type A, M, 7/8/17 [ink on linen]	1015×685
609	Oil Engine Details Type A, M, 8/5/17 [ink on linen]	1015×690
608	Oil Engine Details Type A, M, 3/5/17 [ink on linen]	1010×690
607	Oil Engine Details Type A, M, 30/4/17 [ink on linen]	1010×700
606	Oil Engine Details Type A, M, 24/4/17 [ink on linen]	1015×690
605	Oil Engine Details Type A, M, 17/4/17 [ink on linen]	1020×690
604	Oil Engine Details Type A, M, 12/4/17 [ink on linen]	1025×690
603	Oil Engine Details Type A, M, 4/4/17 [ink on linen]	1030×690
602	Oil Engine Details Type A, M, 29/3/17 [ink on linen]	1025×690
601C	Oil Engine Details Type A, M, 21/3/17 [ink on linen]	1020×690
600	Oil Engine Details Type A, M, 13/3/17 [ink on linen]	1025×690
599	Crankcase for 4"×5" Oil Engine Type A, M, 19/2/17 [ink on linen]	1025×690
598	Cylinder for 4"×5" Oil Engine Type A, M, 14/12/16 [ink on linen]	1020×690
597	Arrangement of Utility Oil Engine Type A 4" Dia Cylr×5" Stroke, M, 9/10/17 [ink on linen]	1010×690
596	Double Acting 10 Ton Jack Details (E&B, ND) [ink on linen]	1010×690
595*	Illustration Details of Victoria Churn, 20/9/16 [ink on linen]	1020×685
594	Details of 25 Ton Traversing Jack, M, 8/6/16 [ink on linen]	1020×680
593	Detail of 25 Ton Traversing Jack, M, 1/6/16 [ink on linen]	1025×680
592	Arrangement of 25 Tons Bottle and Traversing Jack (Clyde, NZR ND) [ink on linen]	1020×680
590	12" Dia Logging Block Heavy Type, M, 1/5/16 [ink on linen]	1020×685
588	Details of Improved Ore Feeder (Hangatiki Lime Ltd), M, 21/12/15 [ink on linen]	1025×690
587	General Arrangement of No.3 Flax Machine, M, 30/11/15 [Reversed photostat]	1000×690

Drawings marked with \* not scanned.

#### Drawer 4

#### 5-584 – 5-351

#### All drawings scanned, except as noted

WA499*	Broadfield Mixer Whanganui Chemical Works, 23/3/62 [Plan print]	675×410
584	Details of Winding Engine 6" Dia×9" Stroke, M, 5/7/15 [ink on linen]	1020×690
583	Details of Winding Engine Gear 6" Dia×9" Stroke, M, 2/7/15 [ink on linen]	1020×685
582	Details of Winding Engine Gear 6" Dia×9" Stroke, M, 26/6/15 [ink on linen]	1025×685
581	Details of Winding Engine Gear 6" Dia×9" Stroke, (as per old drgs 427, 429, 430) M, 22/6/15 [ink on linen]	1020×680
580	Details of Steel Chute for Dredgers 5, 6, 7 & 8, M, 15/6/15 [ink on linen]	1025×690
579	Details of Steel Chute for Dredgers 5, 6, 7 & 8, M, 16/6/15 [ink on linen]	1020×690
578	Details of Winding Engine Gear 6" Dia×9" Stroke, M, 4/6/15 [ink on linen]	1000×690
577	Winding Engine Gear 6" Dia×9" Stroke Talisman Consolidated Karangahake, M, 2/8/15 [ink on linen]	1020×690
576	Octagonal Distributor for Cyanide Vat, M, 30/3/15 [ink on linen]	1020×685

575A&B	10" & 24" Dia Logging Blocks, M, 9/3/14 [ink on linen]	1025×690
574A	Bevel Pinion & Wheel for Loco Jacks, M, 23/1/14 [ink on linen]	1020×685
573	14" Dia Logging Block, M, 15/12/13 [ink on linen]	1025×685
572A&B	10" & 12" Logging Blocks (Selwyn, KTC), M, 23/12/13 [ink on linen]	1025×685
571A&B	9" Heavy & Light Type Logging Blocks, M, 19/12/13 [ink on linen]	1020×690
570A&B	6" & 8" Logging Blocks, M, 17/12/13 [ink on linen]	1030×680
565	Details of 2-1/8" Safety Valve, M, 24/10/13 [ink on linen]	1025×680
564	Details of Geared Deal Frame (Kauri TC, NZR Hamilton) M, 16/10/13 [ink on linen]	1025×680
563	Details of Geared Deal Frame (NZR Hamilton, Whakatane BM) ND [ink on linen]	1020×670
562	Details of Geared Deal Frame (NZR Hamilton, Whakatane BM, KTC, TTT) retraced GJC, 19/10/49 [ink on linen]	1025×670
562(2)	Details of Geared Deal Frame (NZR Hamilton, Whakatane BM, KTC, TTT, Pokaka) M, 14/10/13 [ink on linen]	1030×660
561	Arrangement of Bottom Geared Deal Frame (NZR Hamilton) M, 6/10/13 [ink on linen]	1030×680
561(2)*	Arrangement of Bottom Geared Deal Frame (NZR Hamilton) 6/10/13 [reversed photostat – torn]	1025×680
560	Double Deck Mine Cage (Big River GMC) M, 4/9/13 [ink on linen]	1020×685
559	Details of Geared Deal Frame (NZR Hamilton) M, 9/8/13 [ink on linen]	1030×685
558	Details of Geared Deal Frame (NZR Hamilton, Pokaka TC) M, 8/8/13 [ink on linen]	1030×685
557	Details of Geared Deal Frame (NZR Hamilton) M, 7/8/13 [ink on linen]	1025×680
557(2)	24"×16" Double Gate Deal Frame Details, ND [ink on linen]	1020×675
556	Details of Geared Deal Frame (Whakatane BM, NZR Hamilton) ND [ink on linen]	1015×670
555	Details of Geared Deal Frame (NZR Hamilton, NZFP, Pokaka TC, TTT) M, 31/7/13 [ink on linen]	1020×680
554	Details of Geared Deal Frame (NZR Hamilton) M, 30/7/13 [ink on linen]	1020×680
552	Loco Boiler for Two Cylrs 10¼" Dia×18" Stroke Repair Locomotive (Taringamutu TTC) M, 12/7/13 [ink on linen]	1020×685
551	Details [stop valves &c] Geared Loco 7½"×10" Type 20" & 24" (Ogilvie, Rawlinson & Dods) M, 15/5/13 [ink on linen]	1030×685
550	Details [sandbox details] of Geared Loco 7½"×10" Type 24" Only, M, 25/4/13 [ink on linen]	1030×670
549	Details of Geared Loco 7½"×10" Type 24" Only [sanding gear], M, 23/4/13 [ink on linen]	1020×680
548	Boiler for Geared Loco (Steel) for Two Cylrs 7½"×10" Stroke, M, 31/3/13 [ink on linen]	1020×680
547	Details of Geared Loco 7½"×10" Type 24" Only, M [rubbing blocks &c], 28/3/13 [ink on linen]	1020×690
546*	Details of Marine Engine 11½" & 23"×16" 19/3/13 [ink on linen]	1020×690
545	Details [step & brake brackets] of Geared Loco 7½"×10" Type 24" Only, M, 20/3/13 [ink on linen]	1020×685
544A	NZGR Class B618 Details of Elements & Smoketube for Schmidt's Patent Superheater, M, 12/11/14 [ink on linen]	1020×685
544*	Details of Marine Engine 11½" & 23"×16" 10/3/13 [ink on linen]	1020×685
543	Arrgt & Details of Mainframe & Bogies Geared Loco 7½"×10" Type 24" Only, M, [16whlr] 7/4/13 [ink on linen]	1025×685
542	Details of Geared Loco 7½"×10" Type 24" Only [crossboxes &c] [National TC, Marton S&D] M, 17/2/13 [ink on linen]	1020×685
541	Details Geared Loco 7½"×10" Type 20" & 24" [crank balance, reverse shaft bracket](E&B), M 12/2/13 [ink on linen]	1020×680
540	Details Geared Loco 7½"×10" Type 24" Only [roadwheels &c] [National TC, Marton S&D, E&B] M, 7/2/13 [ink on linen]	1020×680
539*	Details of Marine Engine 11½" & 23"×16" 27/1/13 [ink on linen]	1010×685
538*	Details of Marine Engine 11½" & 23"×16" for SS Wetere 24/1/13 [ink on linen]	1020×680
537*	Details of Marine Engine 11½" & 23"×16" 18/1/13 [ink on linen]	1020×680
536*	Details of Marine Engine 11½" & 23"×16" 16/1/13 [ink on linen]	1020×685
535*	Details of Marine Engine 11½" & 23"×16" 9/1/13 [ink on linen]	1020×685
534*	Details of Marine Engine 11½" & 23"×16" 15/11/12 [ink on linen]	1015×685
533*	Condenser for Marine Engine 11½" & 23"×16" 11/11/12 [ink on linen]	1020×685
532*	Cylinders for Marine Engine 11½" & 23"×16" 5/12/12 [ink on linen]	1020×685

531*	Bedplate for Marine Engine 11½" & 23"×16" 13/1/13 [ink on linen]	1020×685
529 D4	Details of Mud Shoot Dredge No.1 ND [ink on linen]	1000×670
528 D4	Mud Shoot for Dredge No.1 ND [ink on linen]	980×655
527 D3*	Liners for Centrifugal Pump [Dredge?] ND [pencil on paper]	770×570
524	Coil Springs Required for 20 NZ Govt Class A Locos, FH Bell 21/1/07 [ink on linen]	915×705
521*	7×8 Launch Engine General Arrangement (GS Lapwood) FH Bell 4/9/05 [ink on linen]	1020×690
520*	7×8 Launch Engine Details, FH Bell 4/9/05 [ink on linen]	995×705
519*	7×8 Launch Engine Cylinder, FH Bell 4/9/05 [ink on linen]	1025×710
518*	7×8 Launch Engine Details, FH Bell 4/9/05 [ink on linen]	1025×710
517*	7×8 Launch Engine Details, FH Bell 4/9/05 [ink on linen]	1015×705
515*	Bedplate for Marine Engine 13 & 26×18, FH Bell 22/9/05 [ink on linen]	1010×685
514*	General Arrangement 8"×8" Launch Engine (undimensioned) 2/12/04 [ink on linen]	1000×685
513*	8" Cylinder, Reversing Gear, & ECCs 24/11/04 [ink on linen]	990×680
512*	Crosshead [launch engine?] 18/11/04 [ink on linen]	525×690
510*	Crosshead (10"×17"×10" horizontal, DSC) 24/10/04 [ink on linen]	530×690
509*	Guide Column, Piston & Connecting Rods Launch Engine 20/10/04 [ink on linen]	995×695
507*	Bedplate & Crankshaft, Pump Details 8"×8" Launch Engine 15/10/04 [ink on linen]	995×685
505*	Bedplate Guide Column, Flywheel & Crankshaft 6"×6" Launch Engine 1/10/04 [ink on linen]	995×690
504*	6" Cylinder Piston & Conn Rods & Pump Details 6"×6" Launch Engine 30/9/04 [ink on linen]	1000×690
503*	Reversing Gear for 6"×6" Launch Engine 28/9/04 [ink on linen]	990×690
502	Anaconda Self-Oiling Bearings (14" truck wheel Talisman Consolidated) BC or RC, 20/9/04 [ink on linen]	1000×685
500*	Turning Gear for 13 & 26×18 Engs SS Countess 6/12/00 [ink on paper]	730×590
499*	Stern Tube for Marine Engine 13" & 26"×18" Will Price 18/7/05 [ink on linen]	1000×425
498*	13 & 26×18 Marine Engine Condenser FH Bell 20/9/05 [ink on linen]	1000×710
497*	Details of Marine Engine 13" & 26"×18" SS Countess Will Price 3/7/05 [ink on linen]	1025×680
496*	HP Piston 13×26×18 SS Countess No.9, 12/7/00 [ink on paper]	410×595
496(2)*	Details of Marine Engine 13" & 26"×18" Will Price 6/7/05 [ink on linen]	915×700
495*	Details of Marine Engine 13" & 26"×18" Will Price 11/7/05 [ink on linen]	1025×645
494*	Details of Marine Engine 13" & 26"×18" Will Price 7/7/05 [ink on linen]	1030×695
495(2)*	LP Piston 13×26×18 SS Countess No.8, 6/8/00 [ink on paper]	690×515
492*	Details of Marine Engine 13" & 26"×18" Will Price 14/6/05 [ink on linen]	1030×695
491*	Details of Marine Engine 13" & 26"×18" Will Price 5/7/05 [ink on linen]	1015×650
490*	Details of Marine Engine 13" & 26"×18" Will Price 4/7/05 [ink on linen]	1025×665
489*	Details of Marine Engine 13" & 26"×18" [Cylinders] Will Price 14/7/05 [ink on linen]	1030×665
487*	13×26×18 [base casting], ND [ink on linen]	695×710
488*	Thrust Bearing 13×26×18 SS Countess No.11, 17/9/00 [ink on paper]	560×760
484*	No.3 Condenser for 11½" & 23"×16" Engines [torn – two halves], ND [ink on paper]	865×670
485*	No.2 11½" & 23"×16" Cylrs, 16/12/97 [ink on paper]	510×685
483	No.1 Marine Engine 11½" & 23"×16", 3/12/97 [ink on paper]	1010×665
481*	No.5 11½" & 23"×16" [crosshead], 11/12/97 [ink on paper]	1010×670
480*	No.7 11½" & 23" Cyls 16" Stroke, 21/6/97 [ink on paper]	580×725
478*	No.8 Thrust Block for 11½" & 23"×16" [crosshead], 1/6/97 [ink on paper]	845×650
477*	No.9 11½" & 23" Cyls 16" Stroke, 2/6/97 [ink on paper]	1010×670

476*	No.10 11½"×23" Cyls 16" Stroke [baseplate], 25/3/97 [ink on paper]	555×730
475B*	No.16 Forged Sizes of Crankshafts (11½"×23"×16"), 15/3/97 [ink on linen]	675×330
475*	No.11 [Crankshafts] 11½"×23" Cyls 16" Stroke, 1/6/97 [ink on linen]	685×510
474*	No.12 [propellor shaft tube] SS Taniwha 11½"×23" Cyls 16" Stroke, 22/10/97 [ink on paper]	1025×365
473*	LP Piston 11½"×23"×16", 23/5/01 [ink on paper]	340×165
471*	No.14 Safety Valves 11½"×23"×16" Stroke Engines, 30/10/97 [ink on paper]	360×480
470*	No.13 Brackets & Valve Spindles for 11½"×23"×16" Engines, 20/12/97 [ink on paper]	980×670
469*	No.17 [control stand] SS Taniwha, 12/97 [ink on linen]	530×730
468*	No.1 SS Gairloch's Crank Shaft, 29/11/00 [ink on linen]	755×345
465*	No.5 Cylinders Diamts 10"×22" by 14" Stroke, ND [ink on paper]	505×550
464*	No.6 Plan of Machinery 10"×22" by 14" Engine, ND [ink on paper]	310×685
463*	No.7 Stern Tube for a 10"×22"×14" Engine, ND [ink on linen]	680×245
462*	No.8 Crank Shaft for a 10"×22"×14" Engine, ND [ink on paper]	565×210
460*	No.4 Details of Marine Engine 10"×22"×14", 13/4/99 [ink on paper]	1020×685
459*	No.3 [Details] 10×22×14, ND [ink on paper]	815×600
458*	No.2 [Valve gear] 10×22×14, ND [ink on paper]	590×710
457A*	No.9 [Engine Detail SS Kawau] ND, [ink on linen]	190×295
457B*	No.10 [Baseplate SS Kawau] ND, [ink on linen]	220×295
454*	Stern Tube for a 12" and 24" by 15" Engine (SS Tainui?), Will Price, 8/7/03	1015×240
455*	GA of Machinery for SS Tainui, Will Price, 16/6/03 [ink on linen]	330×850
453*	Details for a 12" & 24"×15" Engine, Will Price, 25/6/03 [ink on linen]	990×695
452*	HP Eccentrics for a 12" & 24"×15" Engine, Will Price, 27/6/03 [ink on linen]	685×800
451*	Cylinders for a 12" & 24"×15" Engine (SS Tainui), Will Price, 27/5/03 [ink on linen]	1025×670
450*	Details of Marine Engine 13" & 26"×18", Will Price, 12/7/05 [ink on linen]	1025×700
449*	Shafting & Sea Connections for Marine Engine 13" & 26"×18", Will Price, 12/7/05 [ink on linen]	670×420
448B*	(Marine Engine Condenser outline) ND [ink on linen]	485×520
448A*	(Marine Engine Condenser detail 12"×24"×12" engine) ND [ink on linen]	640×515
447*	(Marine Engine pump(?) 12"×24"×12" engine) ND [ink on linen]	710×575
446D*	SS Waimarie Stern Tube & Shaft, 22/3/07 [ink on linen]	780×360
446B*	SS Waimarie Stern Tube & Shaft, ND [ink on linen]	750×320
446A*	SS Waimarie Stern Tube & Shaft, 4/7/00 [ink on paper]	690×225
446C*	Twin Screw Steamer for Northern SS Co ( Waimarie Stern Tube & Shaft), 14/12/95 [ink on paper]	760×605
445C*	Details 12"×24"×12" marine engine, ND [ink on linen]	790×545
445B*	Link Motion for 12"×24"×12" marine engine, 6/3/96 [ink on paper]	760×475
445A*	Links, SS Waimarie 12"×24"×12", 27/1/96 [ink on linen]	680×490
444*	Crosshead (?) 12"×24"×12" engine, ND [ink on linen]	785×570
443*	Cylinder section 12"×24"×12" engine, ND [ink on linen]	700×545
442*	12"×24"×12" engine details, ND [ink on linen]	650×505
441	Std Engine for Twin Screw Steamer 12"×24"×12", 6/3/96 [ink on paper]	730×600
440*	Donkey Engine for Twin Screw Steamer 12"×24"×12", 24/12/95 [ink on paper]	760×625
439*	GA of Machinery Engine 13" & 26"×18", Will Price 20/6/05 [ink on linen]	990×415
438*	Cylinders 12" & 24" dia 15" Stroke ND [ink on linen]	730×540
437B*	[Eccentric 12" & 24"×12"] ND [ink on linen]	790×600

437A*	[Engine details 12" & 24"×15"] ND [ink on linen]	590×380
436*	[Engine details], ND [ink on linen]	455×575
435*	[Engine details 12" & 24" Cyls 15" Stroke] ND [ink on linen]	785×600
434*	[Engine details 12" & 24" Cyls 15" Stroke] ND [ink on linen]	735×615
433*	[Engine details 12" & 24" Cyls 15" Stroke] ND [ink on linen]	650×520
432*	Details of Marine Engine 13" & 26"×18", Bell, 29/9/05 [ink on linen]	1010×685
431*	Shafting of 13" & 26"×18" Marine Engine, Bell, 29/9/05 [ink on linen]	1030×290
430	Cylinder Double Purchase Steam Winch 6" dia 9" Stroke, 30/6/96 [ink on paper – torn]	655×700
429	Link motion Double Purchase Steam Winch 6" dia 9" Stroke, 10/6/97 [ink on paper – torn]	790×650
427	Conn Rod [?] Double Purchase Steam Winch 6" dia 9" Stroke, 30/6/96 [ink on linen – torn & black with dirt]	755×635
428	Barrel Shaft Double Purchase Steam Winch 6" dia 9" Stroke, 30/6/96 [ink on linen]	400×215
429[2]	Link motion Double Purchase Steam Winch 6" dia 9" Stroke, 10/6/97 [ink on linen – torn & black with dirt]	785×645
427[2]	Conn Rod [?] Double Purchase Steam Winch 6" dia 9" Stroke, 30/6/96 [ink on paper – torn]	600×675
426	GA Double Purchase Steam Winch 6" dia 9" Stroke, 30/6/96 [ink on linen – torn & black with dirt]	605×725
426[2]	GA Double Purchase Steam Winch 6" dia 9" Stroke, ND [ink on paper – torn, half missing]	605×415
425*	Indicator Diagrams SS Tuatea, ND [ink on linen]	420×380
424*	Details Marine Engine 13 & 26×18, FH Bell, 2/10/05 [ink on linen]	990×680
423*	Bolt Sheet Marine Engine 13" & 26"×18", FH Bell, 4/10/05 [ink on linen]	1025×705
422	Donkey Engine Cylinder 4ins Dia Stroke 4ins, 20/12/78 [ink on linen]	490×440
421*	Double Engines 8×8 [paddle steamer?] 17/11/96 [ink on paper – torn, part missing]	600×730
419*	[Cylinders] 8"×8" Double Engines, 17/11/96 [ink on linen]	1020×685
418*	[link motion] 8"×8" Double Engines, 17/11/96 [ink on paper]	875×585
417*	[conn rods?] 8"×8" Double Engines, 17/11/96 [ink on paper]	685×555
414*	Stern Tube SS Tuatea, ND [ink on linen]	980×410
413	10" & 8" Steel Blocks (E&B) FH Bell 2/10/05 [ink on linen]	985×675
412	14" & 9" Steel Blocks FH Bell 2/10/05 [ink on linen]	1030×695
411*	Shafting of 13" & 26"×18", Marine Engine SS Tuatea FH Bell, 2/11/05 [ink on linen]	1035×300
410*	Marine Boiler (130psi, 9ft dia), FH Bell, 7/11/05 [ink on linen]	1015×710
409	5½" Steel Blocks (E&B), FH Bell, 13/11/05 [ink on linen]	575×550
408	28" Jeffrey Clutch, FH Bell, 14/12/05 [ink on linen]	1000×700
407*	[GA marine winch], ND [pencil on paper]	1020×690
406*	13 & 25 inch Cylinders, ND [ink on paper]	750×630
405	26ft 3in×5ft Tube Mill Details, FH Bell, 11/12/05 [ink on linen]	1020×705
404	26ft 3in×5ft Tube Mill Details, FH Bell, 11/12/05 [ink on linen]	1020×705
403	26ft 3in×5ft Tube Mill GA, FH Bell, 12/12/05 [ink on linen]	1040×700
402*	SS Tuatea Stern Tube, Tail Shaft, Propellor Boss & Blade, ND [ink on linen]	1010×710
401*	Shafting & Stern Tube 7"×8" Marine Engine (GS Lapwood), ND [ink on linen]	1010×535
400	Friction Clutch Gear J Wilson & Co, ND [ink on linen]	1020×600
399	Friction Clutch Gear J Wilson & Co, ND [ink on linen]	940×660
397*	5" Marine Oil Engine Cylinder, FH Bell, 12/3/06 [ink on linen]	1015×695
396*	Crankcase 10hp Marine Oil Engine, FH Bell, 1/3/06 [ink on linen]	1045×710
395*	Details 10hp Marine Oil Engine, FH Bell, ND [ink on linen]	1015×675
394*	Reversing Gear 10hp Marine Oil Engine, FH Bell, 9/3/06 [ink on linen]	1005×705



393*	Details 10 & 15hp Marine Oil Engines, FH Bell, 5/8/06 [ink on linen]	1040×695
392*	Details 10hp Marine Oil Engine, FH Bell, 9/8/06 [ink on linen]	1020×695
391*	GA 5hp Marine Oil Engine, FH Bell, 22/8/06 [ink on linen]	925×720
388*	18" Reversible Propeller, FH Bell, 9/10/06 [ink on linen]	975×630
387*	Reversing Gear 10hp Marine Oil Engine, FH Bell, ND [ink on linen]	1000×735
385*	Crankcase 15hp Marine Oil Engine, FH Bell, 25/7/06 [ink on linen]	1035×695
384*	[Crankshaft & exhaust inlet – marine engine?] ND [ink on linen]	1060×720
383	Tube Mill for Waihi GM Co Ltd, FH Bell, 5/4/06 [ink on linen]	1020×675
382*	Stern Tube of SS Paeroa, ND [ink on paper]	615×170
381	[Winch] ND [ink on linen]	880×590
380*	3in Cylinder 3½in Stroke [marine?] engine, ND [ink on linen]	760×595
378*	Marine Boiler, 150psi, Will Price, 10/7/03 [ink on linen]	740×550
377	Multitubular Boiler, 120psi, Will Price, 15/10/03 [ink on linen]	1010×700
376	Multitubular Boiler, 120psi (superseded by 872), Will Price, 12/3/04 [ink on linen]	1005×660
375	Multitubular Boiler, 16ft×6ft dia, 120psi (superseded by 875), Will Price, 29/9/03 [ink on linen]	985×615
375[2]	Multitubular Boiler, 120psi ( Riverhead Paper, KTC, Colonial Ammunition), Will Price, 20/4/05 [ink on linen]	990×705
374*	Marine boiler SS Wairoa, ND [ink on linen]	735×560
372	Vertical boiler 65psi, FH Bell, 23/6/06 [ink on linen]	505×690
371	6ft 6in fan, FH Bell, 28/6/06 [ink on linen]	815×590
370	10 Ton Hydraulic Jack [front & back], ND [pencil on paper]	685×1015
369*	Reversible Propeller 5hp Marine Oil Engine, FH Bell, 17/8/06 [ink on linen]	1020×650
368	Proposed Arrgt Exhaust Pipes & Superheater, Direct Supply Co, Will Price, 18/9/03 [ink on linen]	800×575
367*	14"×22" Vacuum Pump Bedplate &c, ND [ink on linen]	975×640
366*	14"×22" Vacuum Pump Cylinder, FH Bell, 15/11/06 [ink on linen]	1010×680
365*	14"×22" Vacuum Pump Connecting & Piston Rods, ND [ink on linen]	780×570
364	12in Stone Breaker Details, FHB, 21/1/07 [ink on linen]	790×565
363	12in Stone Breaker Details, ND [ink on linen]	985×605
361	Flax Scutcher, FHB, ND [ink on linen]	955×735
356*	Marine Boiler 8ft Dia×8ft 6in Long (Wetere), 25/10/12 [ink on linen]	1030×680
355*	Detail of Double Acting Wet Vacuum Pump, 9/10/12 [ink on linen]	1020×685
354*	Detail of Double Acting Wet Vacuum Pump 8" Dia×18" Stroke, 4/10/12 [ink on linen]	1020×685
353*	Detail of Double Acting Wet Vacuum Pump 8" Dia×18" Stroke, 30/9/12 [ink on linen]	1020×685
352	Details Geared Loco (Safety Valve, Type 20" & 24" 16whlr), M, 14/12/12 [ink on linen]	1020×680
351	Arrgt of Geared Bogie Loco 16 Wheel Type To turn on 66ft Radius (Type 20"), M, 29/7/12 [Photostat, torn]	1015×665

Drawings marked with \* not scanned.

## Drawer 5

### 5-350 – 5-150

#### All drawings scanned, except as noted

350	[Crosshead & Eccentric] 10" & 17"×20" Horizontal Engine, Will Price, 7/7/03 [ink on linen]	1010×680
348	[Eccentric &c] 10" & 17"×20" Horizontal Engine, Will Price, 4/7/03 [ink on linen]	870×680
303	Horizontal Engine & Fan, 8/11/00 [ink on paper]	755×560
316	Correct Plan of 20"×40" Engine Bed, Wm Price, 4/10/99 [ink on paper]	765×360

346	(Crank Disc & Conn Rod) 10" & 17"×20" Horizontal Engine, Will Price, 20/6/03 [ink on linen]	585×690
345	Bed Frames for 10" & 17"×20" Horizontal Engine, Will Price, 2/7/03 [ink on linen]	875×680
344	Details (Crosshead & Crank Disc) 8"×12" Horizontal Engine, Will Price, 24/4/03 [ink on linen]	560×625
343	Cylinder for 8"×12" Horizontal Engine, Will Price, 21/4/03 [ink on linen]	695×490
343A	Piston Valve Liner, FH, 14/10/31 [pencil on paper]	580×385
342	Conn Rod for 8"×12" Horizontal Engine, Will Price, 18/4/03 [ink on linen]	580×350
341	Bed Plate [8"×12" Horizontal Engine?], Will Price, 9/4/03 [ink on linen]	580×350
341(2?)	[Section of 8"×12" Horizontal Engine?], ND [pencil on paper]	615×455
340[r]	[Portion of saw frame drawing on back of horizontal engine drawing] Wm Price, 6/9/00 [ink on paper]	615×455
340	Horizontal engine, ND [pencil on paper]	615×455
338	Details 12"×26" Horizontal Winding Engine 18/5/96 [ink on paper]	615×675
334	Details 12"×26" Horizontal Winding Engine 18/5/96 [ink on paper]	765×540
333	Base 12×26 Wind Engines Geo Price, ND [ink on paper]	575×670
332	Details 12×26 Winding Engine, Ed Price, 21/8/00 [ink on paper]	690×540
331	Clutch Gear for 12×26 Winding Engs, EP 25/9/00 [ink on paper]	765×560
337	[Eccentric & link] 12in×26in Horizontal Winding Engine 18/5/96 [ink on paper]	710×610
336	[Crosshead] 12in×26in Horizontal Winding Engine 18/5/96 [ink on paper]	735×600
335	[Valve steady] 12in×26in Horizontal Winding Engine 18/5/96 [ink on paper]	760×610
328	Bedplate & Crankshaft 11½" & 23"×16" Engine Riverhead Papermills, WP 1/6/99 [ink on linen]	760×595
327	[Engine details] Riverhead Papermills, George Price, 1899 [ink on paper]	890×560
324	[Engine details] Riverhead Papermills ND [ink on linen]	735×620
323	Jet Condenser & Air Pump 11" & 23"×16" Engines, ND [ink on linen]	760×540
322	Tail Shafting, Pulley, Flywheel &c Riverhead Papermills ND [ink on linen]	770×555
317	Valve Gear for Cylrs 11½" & 23"×16" Riverhead Papermills ND [ink on linen]	755×420
315	[Arrangement 20in×40in horizontal engine – Union-Waihi GMC?] 21/2/96 [ink on paper]	755×595
314	Tail End of Piston Rod Union-Waihi GMCo 20in×40in horizontal engine, 9/4/96 [ink on paper]	760×380
313	Eccentric for 20in×40in horizontal engine, 18/2/96 [ink on paper]	765×630
312	[Valve steady] 20in×40in horizontal engine, 17/2/96 [ink on paper]	660×760
311	[Rod boss & crankpin] 20in×40in horizontal engine, ND [ink on paper]	735×510
310	[Cylinder] 20in×40in horizontal engine, 10/2/96 [ink on paper]	760×600
309	[Detail] 18in Cylinder Horiz Engine [& 20in×40in] 23/1/96 [ink on paper]	760×640
308	Eccentric for 18" Cyl Horizontal Engine 20/1/96 [ink on paper – torn, 2 pieces]	760×620
307	6"×7" Winch GA, FH Bell 26/4/07 [ink on linen]	975×685
306	6"×7" Winch Details [eccentric straps, brasses &c], FH Bell ND [ink on linen]	1000×665
305	6"×7" Winch Details [rods &c], ND [ink on linen]	990×660
304	9×18 Horizontal Engine, 30/1/01 [ink on paper]	1015×675
301	6"×7" Winch Cylinder, FH Bell ND [ink on linen]	1030×630
299	Details of Geared Loco 7½"×10" [safety valve, cancelled by 352], M 12/6/12 [ink on linen]	1025×685
298	Details of Geared Loco 7½"×10" [drawgear, type 20" & 24"], M 10/6/12 [ink on linen]	1025×680
294	Details of Geared Loco 7½"×10" [handbrake, check chains &c, type 20" & 24"], M 4/6/12 [ink on linen]	1020×680
295	Brake Drum Cheek, Northern Coal Co, Hikurangi, JH Moody Hikurangi, 30/8/02 [ink on paper]	520×510
293	Details of Geared Loco 7½"×10" [handbrake details, type 20" & 24"], M 31/5/12 [ink on linen]	1020×680
292	Details of Geared Loco 7½"×10" [handbrake details, type 20" & 24"], M 30/5/12 [ink on linen]	1025×675

291	Details of Geared Loco 7½"×10" [brake cylinder & levers, type 20" & 24"], M 28/5/12 [ink on linen]	1020×685
290	Details of Geared Loco 7½"×10" [speed change brackets &c, type 20" & 24"], M 4/5/12 [ink on linen]	1020×685
289	Details of Geared Loco 7½"×10" [speed change lever, quadrant &c, type 20" & 24"], M 3/5/12 [ink on linen]	1020×685
288	Details of Geared Loco 7½"×10" [throttle valve &c, type 20" & 24", cancelled by 551], M 26/4/12 [ink on linen]	1020×680
287	Details of Geared Loco 7½"×10" [funnel & blastpipe, type 20" & 24"], M 20/4/12 [ink on linen]	1020×685
286	Details of Geared Loco 7½"×10" [smokebox saddle, type 20" & 24"], M 17/4/12 [ink on linen]	1025×685
285	Details of Geared Loco 7½"×10" [eccentric & exhaust Y-piece, type 20" & 24"], M 16/4/12 [ink on linen]	1020×685
284	Details of Geared Loco 7½"×10" [reverse hand lever &c, type 20" & 24", also C & Ca], M 13/4/12 [ink on linen]	1020×685
283	Details of Geared Loco 7½"×10" [crankshaft, conn rod &c, type 20" & 24"], M 10/4/12 [ink on linen]	1025×680
282	Details of Geared Loco 7½"×10" [columns, reversing link &c, type 20" & 24"], M 4/4/12 [ink on linen]	1025×680
281	Details of Geared Loco 7½"×10" [axlebox & frame rubbing block, type 20" & 24"], M 1/4/12 [ink on linen]	1025×680
280	Details of Geared Loco 7½"×10" [crossbox &c, type 20" & 24"], M 30/3/12 [ink on linen]	1025×685
279	Details of Geared Loco 7½"×10" [axles, type 20" & 24"], ND [ink on linen]	1015×685
279(2)	Details of Geared Loco 7½"×10" [axles, type 20" & 24"], M 29/3/12 [ink on linen]	1025×680
278	Details of Geared Loco 7½"×10" [bogie centres & transom, type 20" & 24"], M 26/3/12 [ink on linen]	1025×685
277	Details of Geared Loco 7½"×10" [bogie centres, type 20" & 24"], M 23/3/12 [ink on linen]	1025×675
276	Details of Geared Loco 7½"×10" [shaft bearings & pedestals, type 20" & 24"], M 22/3/12 [ink on linen]	1025×680
275	Details of Geared Loco 7½"×10" [spur gears, type 20" & 24"], M 20/3/12 [ink on linen]	1025×675
274	Details of Geared Loco 7½"×10" [universal couplings, type 20" & 24"], M 12/3/12 [ink on linen]	1025×680
273	Details of Geared Loco 7½"×10" [road wheels type 20", mitre gears, type 20" & 24"], M 8/2/11 [ink on linen]	1025×685
272	Details of Geared Loco 7½"×10" [rubbing block type 20", bogie horns &c, type 20" & 24"], M 29/2/12 [ink on linen]	1025×685
271	Details of Geared Loco 7½"×10" [engine bed plate, type 20" & 24"], M 20/2/12 [ink on linen]	1025×680
270	Arrgt & Details of Geared Loco 7½"×10" [main, sub & bogie frames, type 20" only], M 28/2/12 [ink on linen]	1025×685
269	Cylinders Geared Loco 7½"×10" [type 20" & 24"], M 6/2/12 [ink on linen]	1020×685
265*	Centrifugal Pump, ND [ink on linen]	930×620
268	Boiler Geared Loco 7½"×10" [type 20" only, cancelled by 548], M 8/1/12 [ink on linen]	1020×685
266	Plunger Pump, 23/3/98 [ink on linen]	705×645
264	Vertical Vacuum Pump, 28/5/96 [ink on linen]	565×750
263	Vacuum Pump 12" Dia By 14" Stroke ND [ink on paper – torn]	750×600
262	14" Plunger Pump, EP 14/8/00 [ink on paper]	275×590
261	8in Plunger Pump, ND [ink on paper]	760×580
260	Balance Bob for Waitekauri (ex-Golden Cross) Gold Mining Co, date torn off [ink on paper]	760×605
254	Bucket for 8in Draw Lift (Kapanga GMC, &c), W Price, 14/12/98 [ink on paper]	565×695
252	7ins Vacuum Pump, ND [ink on linen]	715×305
251	Cylinder & Valves for 12"×14" Vacuum Pump ND, torn [ink on paper]	760×600
251[r]	Compressor building, Komata Reefs GMC ND, torn [pencil on paper – on back of 251]	760×600
250	Sweep Rod &c, Union Waihi GM Co, 8/4/96 [ink on paper]	760×590
248	[Detail shaft winding gear?] ND [ink on paper]	735×595
247	Vertical Vacuum Pump 11½" Dia×14" Stroke, Wm Price 20/9/99 (not executed 11/10/99) [ink on paper]	600×780
247[r]	Rough Sketch 40 Stamp Battery 25/11/96 [pencil on paper – on back of 247]	600×780
245	[Sweep rods & balance bob] 23/11/85 [ink on paper – torn]	755×560
242	[Pump poles & cases, Kapanga GM Co] ND [ink on linen]	425×530
240	Proposed Arrgt 16" Draw Lifts, ND [ink on paper]	1015×645

239	Arrgt Pump Gear No.2 Shaft WaiteKauri GM Co 19/4/97 [ink on linen – 2 tracings pinned together]	360×200
239(2)	Arrgt Pump Gear No.2 Shaft WaiteKauri GM Co 21/4/97 [ink on linen – 2 tracings pinned together]	650×295
239(3)	Arrgt New Sweep Rod No.2 Shaft WaiteKauri GM Co 5/6/97 [ink on paper]	265×205
236*	[Detail of mine pump?] ND [ink on paper – torn]	690×560
235	Hydraulic Lift Ehrenfried's Brewery Auckland, 24/4/97 [ink on paper – torn & creased]	580×765
230	Fan Waihi GM Co, 2/5/96 [ink on paper]	590×760
229	Fan 5ft Dia ND [ink on paper]	605×770
228	Fan 15ft Dia 20/9/00 [ink on paper]	700×560
227	New Turbine Wheel Talisman GM Co, 1/8/96 [ink on paper]	620×760
225	Turbine Waihi-Silverton GM Co, 11/12/95 [ink on paper]	590×735
224	Deal Frame Details, FH Bell 8/8/05 (cancelled by 553–564) [ink on linen]	1030×710
224[2]	Details of Deal Frame for White Pine Coy of NZ, Will Price, 30/3/03 [pencil on paper]	690×600
223	GA of Deal Frame 6/4/07 (cancelled by 553 1913) [ink on linen]	800×720
222*	Deal Frame GA (Gibbons, White Pine Co, Rawene SMC) 17/8/05 [reversed photostat]	960×730
222(2)	Deal Frame GA (Gibbons, White Pine Co, Rawene SMC) FH Bell 17/8/05 (cancelled by 561, 1913) [ink on linen]	960×715
222(3)	Deal Frame White Pine Co, Will Price 5/3/03 [ink & pencil on paper]	1025×690
221	Details of Deal Frame, FH Bell 10/8/05 (cancelled by 553 1913) [ink on linen]	1035×700
220B	Gang Saw GA, Ed Price 30/9/00 [reversed photostat]	750×680
220A	Gang Saw GA ND (cancelled by 561, 1913) [ink on paper]	710×685
220	Gang Saw GA 7/10/00 [ink on paper]	1025×695
219*	Feed Water Heater 18/6/01 [ink on linen]	320×215
218*	Condenser for Northern Roller Milling Coy, Will Price 19/5/03 [ink on linen]	950×695
218*	Condenser (for estimating only) ND [blueprint]	940×690
210	6 feet Pelton Wheel, W Price 16/3/98 [reversed photostat – crumpled]	605×750
210[2]	6 feet Pelton Wheel, ND [reversed photostat – crumpled]	660×795
209	Pelton Wheels ND [reversed photostat – crumpled]	545×430
209[2]	Pelton Wheels ND [Xerox]	595×840
208	4ft Pelton Wheel 11/8/96 [Xerox]	595×420
207	4ft Pelton Wheel ND [Xerox]	840×610
206	4ft Pelton Wheel ND [Xerox]	595×420
203*	Union for the May Queen GM Co, Wm Price 2/10/99 [ink on paper]	465×410
202*	[Turbine detail] ND [pencil on paper – torn]	1020×685
199*	Sluice Valve Spindles ND [ink on paper – torn]	770×590
198*	Sluice Valve Spindles 5/12/96 [ink on paper]	750×285
197	4in Stop Valve, W Price 29/10/98 [ink on paper – torn]	755×600
196*	Corliss Valve for Northern Roller Mills Auckland, EP 24/8/00 [ink on paper]	690×480
195	4ins Starting Valve for 12ins×26ins Winding Engine 30/9/96 [ink on paper]	740×430
194	3½ Stop Valve, Wm(?) Price, 4/7/00 [ink on paper – torn]	695×600
193	Feed Check Valves, EP 27/2/01 [ink on linen]	490×690
193(2)	Feed Check Valves, ND [ink on paper]	760×600
192	Sluice Valves ND [ink on thin linen – crumpled]	935×655
190	Blow-off Cocks ND [ink on paper]	700×545
189*	Double 2in Spring Safety & Stop Valve for Messrs F&W Foote, Wm P, 10/2/02 [ink on paper]	570×690

188	6in Stop Valve, EP 13/7/01 [ink on paper]	560×495
187	6in Steam Valve, W Price 26/10/98 [ink on paper]	445×605
186	4½" Stop Valve, Wm Price 9/5/00 [ink on paper – torn]	310×435
185	Valve & Governor, 18"×40" Horizontal Engine The Waitekauri GM Co, 31/1/96 [ink on paper]	595×760
184	A Pickering Governor, ND [ink on paper]	490×580
183*	Safety Valve Marine Engine 13" & 26"×18", FH Bell, 29/9/05 [ink on linen – crumpled]	1010×710
183[2]?	7ins Babbitz Metal Plummer Block, ND [ink on paper – torn]	725×800
182	3ins Screw Down Valve, ND [ink on paper]	305×690
181	3" Sluice Valve, ND [ink on paper]	660×465
180	4in Stop Valve (NZ Dairy Co, TTT Co×2, PWD Samoa) Will Price 8/5/1905 [ink on linen]	895×695
179	Safety Valves (NZ Dairy Co, TTT Co, PWD Samoa) Will Price 28/4/1905 [ink on linen]	915×580
178*	5in Safety Valve, ND [faint pencil on paper]	675×340
175	Tables for Radial Drill, Will Price 6/4/03 [ink on linen]	690×520
170A	Pitman, Swinging & Stationary Jaws for 16"×10" Crusher, WRB, checked WWM 12/7/29 [ink on linen]	995×650
170	16"×10" Stone Breaker & Ore Crusher (Connors, Golden Point Gold & Scheelite, Waihi Borough) ND [ink on linen]	985×680
170[2]	16"×10" Stone Breaker & Ore Crusher 5/11/96 [ink on paper]	1020×680
170[3]	16"×10" Stone Breaker & Ore Crusher 7/12/09 [pencil on paper]	1010×685
168*	10ins Stone Breaker, 20/11/97 [reversed photostat]	765×620
168[2]	10ins Stone Breaker, 20/11/97 [ink on linen]	755×620
168[3]	10" Stone Breaker, traced WRB, checked HW Wilson 14/2/28 [ink on linen – bad water damage, crumpled]	845×655
165*	Foundations for Coupled Compound Engine 18" & 29½"×32", ND [ink on linen]	975×640
160*	2" Dia Safety Valve for Marine Boiler, M, 26/2/13 [ink on linen]	1010×680
158	Cylr, Bogie, Crosshead Drawgear Pins & Studs NZR Class Ad, ND [ink on linen]	1015×680
157	Boiler Studs, Tender Pins NZR Class Ad, ND [ink on linen]	1010×685
156	Arrgt of 8"×8" Engine (to go in one direction only) M 17/10/11 [ink on linen]	1015×685
155	Fan 10 Feet Dia, M 12/10/11 [ink on linen]	1015×680

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