

B NRM 1986-102**The Collection of S J Crispin (1898-1989), Structural Engineer**

CONTENTS

Crisp I Unpublished surveys of the Viaducts and Bridges on the GWR and its Branches

Reference	Description
I/1 PA to PZ	The Branches: the viaducts and some noteworthy bridges on the railway branches between Paddington and Penzance. 44pp illus ms and typescript.
I/2 PA to PZ	Branches: ex Southern Railway Independents. The viaducts and some noteworthy bridges on branches, ex Southern Railway and Independents in Western Region. p45 – 68 illus. Ms and typescript
I/3 PA to PZ	The viaducts and some noteworthy bridges on the railway between Paddington and Penzance. 24p illus ms and typescript

**Crisp 2 Lectures and Articles by S J Crispin
(Typescript unless otherwise stated)**

Reference	Description
2/1	Bridges Design and Building 1931 19p [notes for slide lecture]
2/2	Arches nd 55p
2/3	Spanning of openings 1937 22p [Junior Institution of Engineers – read at Victoria Street, London, 1937 April 30]
2/4	Long Span Bridges – The Gate and Bay Bridges, San Francisco 1939 18p [Paper for the South Western Branch of the Institution of Structural Engineers]
2/5	Bridges, Development and Types 1929 26p [to be read with Paper No 1]
2/6	Missing
2/7	Power 12p
2/8	A Comparative Study of Engineering 1948 15p [Institution of Structural Engineers] slide lecture
2/9	Man, Machines and Energy 1935 24p
2/10	Mechanical Power 1933 27p
2/11	Housing – A Historical Survey from Stone Huts to Council Housing 1947 25p [Paper given to Junior Institution of Engineers 1947 January 10]
2/12	Man and his Dwelling 1933 20p
2/13	Effects of High Explosives on Buildings 1942 18p [Read at Institution of Structural Engineers, South West Branch, Torquay, 1942 Sept 12]
2/14	Temperature and Building Materials 1936 16p [Read at Institution of Structural Engineers, South West Branch, 1936 November 5]
2/15	The Cyclic Universe 1934 22p
2/16	Prestressed and Vibrated Concrete 1950 15p [Chairman's address to Junior Institution of Engineers]
2/17	Soil Stabilisation in Fine Materials 1952 41p 9 photos, 6 diagrams [Printed in Structural Engineer 1954]
2/18	The Moor [Cornwall] 1938 revised 1978 19p illus with photographs
2/19	Cornish Engines 1930 7p 1 diagram [slide lecture]
2/20	Missing
2/21	Prestressed Concrete 1950 28p Addendum 3p and 2 diagrams
2/22	Teverbyn Bridge 1930 4p
2/23	Cornwall. A Cradle of Science and Engineering 1932 13p
2/24	How the Railway came to Cornwall 1934 16p
2/25	Local Bridges. Cornwall 1931 12p
2/26	Steam Engine at Liskeard Brewery 1931 3p 2 photos
2/27	Fifty Years of Liskeard 1935 16p
2/28 & 2/29	Rational Beam Test 1951 6p
2/30	Prestressed Concrete 28p

**Crisp 2 Cont. Lectures and Articles by S J Crispin
(Typescript unless otherwise stated)**

2/31	Boys Eye View of Castle Grounds, Liskeard 1969 10p
2/32	River Capture 1966 6p plus map [Inhabitants of Looe River Catchment area are entitled to water from the Fowey River Catchment area]
2/33	Liskeard Footpaths ca 1938 5p
2/34	When Liskeard Drains Made Money 1977 1p
2/35	Cornish Viaducts 1977 1p [article in C W L News 1977]
2/36	Cornwall Railway General 1970 p1-40
2/37	Cornwall Railway. The Inclines 1974 p 41-59
2/38	Sermons in Stones. A rock hound on his collection 1970 17p, 8 figs plus 12p discourse
2/39	Water Wheels and Waterpower 1932 6p [photocopied newspaper articles]
2/40	Natural and Artificial Stones 1965 p 212-241 <i>Journal of the Junior Institution of Engineers</i> Vol 75, part 7 1965 April
2/41	Cornwall Railways. The Viaducts. GWR Main Line Saltash to Penzance 1 to 41. General Descriptions 36p 1975/6
2/42	Cornish Mining. 1977 11p + 8p photographs South Crofty Ltd [offer of ordinary shares for sale] [Prospectus] 30p illus
2/43	Consolidation. Notes and Experiments nd 66p
2/44	The Autobiography of Stewart Johnson Crispin (1898-1989) 1979 7p + 1p illus
	3 papers by S J Crispin published in <i>General Engineer</i> 1973 and 1974 and <i>Journal of Institution of Engineers</i> 1970

Crisp 3 Drawings

Reference	Description
3/1	Cornish Railways 1809-1969/drawings by S J Crispin 1969 [illustrating route of railways, types of viaducts and bridges, position of inclines, canals etc] Scales: various [with typed notes 1p]
3/2	Cornish Railways – The Viaducts – GWR mainline Saltash to Penzance 1-41/ drawn by S J Crispin. Scales: various [with typed notes 2p]
3/3	Cornish Railways – The Viaducts – GWR and SR branches, Cornwall Railway in Plymouth Area/drawn by S J Crispin 1977. Scales: various [with typed notes 1p]
3/4	[Cornish Railways] The Branches and North Cornwall Railway – viaducts and bridges [and] The Penpons 42 to 49 Truro to Falmouth/drawn by S J Crispin 1976
3/5	[Cornish Railways] The Inclines 1 – 7/drawn by S J Crispin 1973 Scales: various
3/6	[Cornish Railways] The Inclines 8 – 15/drawn by S J Crispin 1973 Scales: various [with typed notes 1p]
3/9	Silver Valley Mining District, Prosper Lode, Plan and Section of Adit and level under Gully/Surveyed by S J Crispin 1936/7 Scale 20' – 1"
3/7	Silver Valley Mining District [Cornwall] Plan showing workings/ Surveyed by S J Crispin 1936/7 Scale 208.33' – 1"
3/10	Silver Valley Mining District [Cornwall] Plan and Section of Adit at Mutton Corner/Surveyed by S J Crispin 1936/7 Scale 20' – 1"
3/11	Silver Valley Mining District [Cornwall] Plan and section of Adit at Mutton Corner Undeveloped section/Surveyed by S J Crispin 1936/7 Scale 20' – 1"

Crisp 4 Lantern Slides
[These are arranged and stored in slide boxes]

Slide Number	Description	Number of Paper referring to slide
A/14	Arch. Gothic. Diagram showing line of loads	2
A/342	Arch. Semicircular. Diagram showing line of loads	2
A/39	Arch. Simple semicircular	4
A/192	Atom diagram	20
A/200	Ammonite	21
A/249	Arch. Constitution Hill	25
A/248	Arch. Fourcentered	25
A/259	Arch. Dead	2
A/250	Admiralty Arch	2
A/261	Altarnun Bridge	2
A/262	Arch Diagram for Waterloo Bridge	2
A/271	Arch Tudor	2
A/275	Arch Liskeard Church	2
A/273	Arch Pointed	2
A/276	Arch Concrete Pointed	2 + 6
A/278	Arch Bridges etc, comparative diagram	2 + 3
A/279	Arches, diagram of types	2
A/270	Arch Concrete. Horticultural Hall	2
A/300	Arch. Three centered	2
A/339	Arch pointed and semi diagram	2
A/19	Arch parts of diagram	2
A/328	Arcon House	8
A/329	Airey House	8 + 11
A/15	Arch Diagram	1
A/19	Arch Parts	1 + 2
B/55	Britannia Tubular	1
B/126	Beam Engine. Wheal Busy	19 + 23
B/127	Beam Engine. Grenville	19 + 23
B/137	Beam Engine. Grenville Mine	19 + 23
B/138	Beam Engine. Liskeard Brewery	23 + 26
B/45	Bosphorthennis Beehive Hut	15
B/161	Barn Street Door. Liskeard	12
B/179	Baker Street	12
B/181	Bewery (sic) Engine. End of Beam	6 + 26
B/194	Bubble. Cyclic	15
B/260	Berriow Bridge	2 + 3
B/331	Bridge Sections	8
B/332	Bridge Sections	8

Crisp 4 cont. Lantern Slides
[These are arranged and stored in slide boxes]

Slide Number	Description	Number of Paper referring to Slide
C/1	Clam. Near Hendra Bridge	1 + 25
C/2	Clam. Method of erection	1 + 3
C/6	Clam. Hawns and Dendles near Plymouth	1 + 3
C/9	Clapper type bridge. Post Bridge, Dartmoor	1 + 3 + 25
C/10	Carrick-a-read. Ireland. Suspension Bridge	1
C/13	Corbelling. Diagram showing method	1 + 8
C/23	Coldrenick Viaduct. River Seaton. GWR	3 + 25
C/35	Calstock Viaduct. River Tamar. SR	1 + 24 + 25
C/37	Croyland. Lincolnshire	1
C/42	Calstock Viaduct River Tamar. SR	1 + 2 + 24 + 25
C/54	College Wood, Truro Falmouth Branch. GWR	6 + 5 + 24 + 25
C/62	Clifton Suspension	5
C/60	Coldrenick. First Steel	1 + 24
C/89	Canoe. Examples of lever	9
C/98	Camel round	10 + 23
C/132	Cooks Kitchen Beam in transit	23 + 19
C/143	Cave at Seaton	11 + 12
C/149	Cottage at St Keyne	11
C/157	Cottage thatched	11
C/167	Crumplehorn Mill	11
C/172	Cob Wall burnt	11 + 12
C/187	Cyclic. Sun and Snake	15
C/188	Cyclic. Circle etc	15
C/182	Cornish Pump	12 + 19
C/185	Colleseum	2
C/198	Cow	15
C/208	Cyclic Maps. China. Macedonia	15
C/209	Cyclic Maps. Roman Empire. France	15
C/203	Clouds. Seaton Bay	15
C/211	Cyclic Maps. Britain. Japan	15
C/212	Cyclic map. Nations	15
C/217	Cyclic Diagram. Human	24
C/219	Cornwall Railway	24
C/220	Cornwall Railway. East Cornwall portion	24
C/222	Cheesewring and railway crowd	24 + 18 + 22
C/225	Coal, pile of	9
C/229	Cabbage, Jersey	9
C/233	Calorimeter	9
C/277	Church Architecture	2

Crisp 4 cont. Lantern Slides
[These are arranged and stored in slide boxes]

Slide Number	Description	Number of Paper referring to Slide
C/289	Caradon Mine. Arched opening	2
C/291	Cornish Cross	30
C/292	Cornish Cross	30
C/293	Cornish Cross	30
C/294	Cornish Cross	30
C/295	Cornish Cross	30
C/296	Cornish Cross	30
C/333	Canadian Bridge	3 + 6
C/337	Church Step	
C/350	Coldrenick and Under. River Seaton	24
C/371	Compression Concrete Cube Testing Machine	20
C/370	Concrete Cube Mould	
C/369	Concrete Lab. Apparatus	
C/365	Concrete Mixer. Large	20
C/364	Concrete Mixer. Rotary Drum	20
C/363	Concrete Mixing. Old	20
C/361	Concrete Mould Vibrator	20
C/359	Concrete Grading Figures	
C/358	Concrete Grading Curves	20
C/356	Concrete Control Diagram	
C/23	Coldrenick Viaduct	1 + 25
C/373	Court	11

Crisp 4 cont. Lantern Slides
[These are arranged and stored in slide boxes]

Slide Number	Description	Number of Paper referring to Slide
D/3	Devil. Lifting tree	1 + 10
D/4	Devil. Method of attaching	1
D/5	Devil. Strapped and ready to move	1
D/25	Dart Bridge	1 + 2 + 6 + 8
D/71	Doublebois Side. Liskeard Bodmin Rd. River Fowey	8
D/72	Doublebois Under	8
D/73	Doublebois Abutment	8
D/163	Deptford Dwelling	11
D/175	Daniel Gumbs Hut	15
D/210	Defiance	15
D/237	Dynamometer	9
D/282	Delhi Arch	2
D/297	Donierts Stone	2
D/307	Donierts Stone	2
D/11	Dregnes Bridge	1 + 2 + 25
D/351	Draw Bridge. River Fowey	25
E/129	East Pool Beam	19 + 23
E/131	East Pool Beam in transit	19 + 23
E/150	Earthquaked Tower	16
E/160	Earthquaked House	17
E/168	Egyptian House	11
E/183	Eddystone course	12
E/202	Electric Fire	15
E/230	Electric Stove	11
E/257	Exe Bridge	2 + 3
E/258	Exeter Bridge	2
E/268	Exeter Cathedral looking east	2
E/336	Earthquaked House	
G/69	Golden Gate, San Francisco. Towers	1 + 8
G/68	George Washington Bridge. Hudson River	1
G/70	George Washington. Section	1
G/111	Granite Splitting. Sweets Yard	10 + 11
G/144	Gypsy Cottage. St Cleer Downs	11 + 12 + 2 + 3
G/158	Gable End. Chubbs	11
G/189	Great Circle Map	19
G/311	Golden Gate Bridge. General	3 + 4 + 6
G/312	Golden Gate Bridge. Cable	3 + 4 + 6
G/313	Golden Gate Bridge, cables and tower	3 + 4
G/330	Golden Gate, etc. comparative drawings	4 + 6
G/340	Girder diagram	3

Crisp 4 cont. Lantern Slides
[These are arranged and stored in slide boxes]

Slide Number	Description	Number of paper referring to slide
H/110	Horse Round Bolitho Farm, Liskeard	1
H/159	Hammer Beam Roof	16
H/232	Heat Measurers	9
H/239	Heat Work Diagram	9
H/238	Heat Distribution Chart	9
H/241	Hayle Power Station	9
H/240	Heat Engines	10
H/304	Hurlers, the	18
H/303	Hurlers, the	18
H/326	House Clans	8 + 11
H/327	House Sections	8
H/335	Howard House	8 + 11
I/7	Indian Bridge	1
I/8	Indian type bridge, method of erection	1
I/146	Irish Cottage	8 + 10 + 12
I/147	Irish Cottage	6 + 11
J/234	Joules Equivalent	9 + 10
I/235	Indicator	9
I/236	Indicator Diagram	9
I/280	Indian Arch	2
J/310	Joints in Ironwork	3
J/315	Joints in woodwork	3
J/316	Joints in Stonework	3
K/46	King Post Truss, diagram linen	5
K/254	Keval Farm	

Crisp 4 cont. Lantern Slides
[These are arranged and stored in slide boxes]

Slide Number	Description	Number of paper referring to slide
L/12	Lintel broken. Leaving arch shaped opening	1 + 3
L/51	Liskeard Viaduct. Wood	1 + 24
L/56	Liskeard Steel	1 + 3 + 24 + 25
L/88	Locomotives. Three in proportion	10 + 23 + 24
L/91	Loc. 4-6-0 Castle Class, GWR	10
L/92	Loco Section	10 + 24
L/100	Locomotive. Murdock	10 + 23 + 24
L/114	Loco. Hall Class. GWR 4-6-0	23 + 24
L/115	Loco. Broad Gauge, Newton Abbott	10 + 23 + 24
L/116	Liskeard Electricity Works, engines	10
L/120	Locomotive. Turbine, General Side View	10 + 23
L/121	Locomotive Turbine, Bogie	10 + 23
L/164	Loco Mills Cottage	6 + 8 + 11 + 12
L/169	Liskeard Housing	6 + 8 + 12
L/178	Liskeard Ambulance Station	11 + 12
L/180	Liskeard Housing Scheme	11 + 12
L/193	Liskeard Church Tower, diagram	15
L/207	Limekiln	15
L/213	Lancashire Boilers	
L/218	Light	15
L/231	Loco Diesel	9 + 10
L/252	London Bridge	2
L/264	Lambeth Bridge	2
L/267	Lincoln Cathedral	2
L/272	Liskeard Church Window	2
L/288	Liskeard Church Window	2
L/349	Looe Bridge	25
L/271	Liskeard Tower Door	
M/341	Moorswater. Relative size of piers	1 + 6 + 25
M/26	Moorswater Viaduct, arch	1 + 2 + 24 + 25
M/20	Moorswater, general	8 + 24 + 2 + 1 + 3
M/34	Moorswater Viaduct building, wood alongside	24 + 1 + 3 + 6
M/171	Midland Bank, Liskeard	
M/186	Monkey and Typewriter	15
M/197	Man and chemical constituents, diagram	15
M/214	Mountain	22
M/263	Menin Gates, Ypres	2
M/318	Mine, Cornish, in the 180 East Pool	34
M/319	Mine, Cornish, bottom of engine shaft Cooks Kitchen	34
M/320	Mine, Cornish, underhand stopping East Pool	34
M/321	Mine, Cornish, gig and skip, 302 level Dolcoath	34
M/322	Mine, Cornish, Croust time East Pool	34
M/323	Mine, Cornish, boring machine East Pool	34
M/324	Mine, Cornish, man engine at the 234 Dolcoath	34
M/325	Mine, Cornish, mill at 412 East Pool	34

Crisp 4 cont. Lantern Slides
[These are arranged and stored in slide boxes]

Slide Number	Description	Number of paper referring to slide
N/29	Notter Bridge, River Lhyner, GWR	1 + 25 + 24
N/49	Notter old, wooden viaduct	1 + 2 + 24
N/48	Notter old, taking down viaduct	1 + 24 + 25
N/102	Newcomen's steam engine	6 + 8 + 10 + 23
N/253	North Parade Bridge, Bath, before casing	2 + 3
N/266	North Parade Bridge, Bath, Soffit	2
N/347	Newbridge, River Lhyner	25
N/345	Narrow Bridge, River Camel	
O/227	Oil, forminifira	9
O/228	Oil, section through anticline	23 + 9
O/124	Otto cycle, diagram	10
O/269	Oxford Cathedral Choir	2
O/314	Okalama Bridge	4 + 6
P/22	Piledriver	1 + 15
P/45	Poosanooth Viaduct, Truro Falmouth Branch GWR	1 + 24
P/53	Renwithers Viaduct, Truro Falmouth Branch GWR	1 + 24
P/52	Perranwell Viaduct Wood, Truro Falmouth Branch GWR	1 + 24
P/75	Plougastel, RC first arch	1 + 2 + 3 + 8
P/76	Plougastel Centre moving	1 + 3 + 6
P/104	Phoenix Mine winding engine	19 + 6 + 8 + 23
P/105	Phoenix Mine poppet	19 + 23
P/106	Phoenix Mine beam cylinder head	19 + 6 + 23
P/107	Phoenix Mine, beam end	19
P/123	Petter Atomic Diesel, general view	6 + 8
P/122	Petter Atomic Diesel, section	10
P/142	Penandray stack mine	19
P/151	Palm leaf hut	11
P/162	Poplar slum	12
P/184	Parthenon	19
P/223	Peat section	9 + 18
P/226	Peat rick	23
P/226	Poppet of coal mine	23 + 9
P/255	Pultney Bridge, Bath	2 + 11 + 6
P/281	Paris, Pont Alexandra	3
P/352	Prestressed Freysinnet	21
P/353	Prestressed Sighthill beams	21
P/354	Prestressed Magnet system	21
P/355	Prestressed Hoyer system and tanks	21

Crisp 4 cont. Lantern Slides
[These are arranged and stored in slide boxes]

Slide Number	Description	Number of paper referring to slide
Q/47	Queen Post Truss, diagram, linen	1
Q/94	Quadruple expansion reciprocating engine, drawing	10
R/139	Redruth Station. Broad guage	24
R/140	Redruth Station and Viaduct	24
R/141	Redruth Viaduct	3 + 24
R/177	Rubble Wall	11
R/302	Rillaton Gold Cup Cist	18
R/307	Rillaton Gold Cup	18
R/366	Road Vibrator	20
S/16	Strut System Bridge	1
S/33	St Germans Viaduct building	1 + 24 + 25
S/38	Sergovia. Roman aqueduct	1 + 2 + 3
S/59	St Pinnock, GWR	1 + 6 + 8 + 25 + 24
S/58	Saltash Bridge, building	1 + 2 + 6 + 8 + 24+25
S/57	Saltash Bridge, tube	1 + 2 + 24 + 25
S/50	St Germans Wood	1 + 6 + 24
S/61	St Pinnock, wrought iron	1 + 24
S/82	Sydney Harbour Bridge, commencing arch	1 + 2
S/83	Sydney Harbour Bridge, arch complete	1 + 6 + 8
S/101	Saverys steam engine	11 + 23
S/165	Smiths Court Cottage	
S/170	Starcross Atmospheric Station	2 + 3 + 4
S/173	Stowes Hill wall	18
S/176	Stone circle	18
S/195	Stick action of poking with	15
S/191	Solar system	15
S/190	Spherical motor	19
S/206	Stowes Hill, scree	18
S/215	Stars	15
S/221	St Germans Viaduct, wood	24, 25, 3 + 22
S/256	Skew Arch, Lamellion	2
S/265	Southwell Nave	2
S/274	Sennen natural arch	2
S/301	St Cleer Well	3
S/308	St Keyne Well	31
S/15	Saxon arch	1
S/348	Sandplace Bridge, River Looe	3
S/346	Smallacombe, Old Caradon Railway	18
S/379	Sand cubes	18

Crisp 4 cont. Lantern Slides
[These are arranged and stored in slide boxes]

Slide Number	Description	Number of paper referring to slide
T/338	Trekeive Steps bridge, clapper with parapet	2
T/28	Trekelleran Bridge, River Inney, Liskeard, Launceston Road	3
T/27	Treverbyn Bridge. Fowey River. Liskeard, St Neet Rd	3
T/36	Teignmouth. Road over GWR	1 + 2
T/32	Tyne Bridge, air lock of cassion	1 + 24 + 25
T/41	Teignmouth, signal box	1
T/40	Treverbyn, close up of arch	1 + 2 + 21 + 25
T/113	Trewenda Viaduct. Truro Falmouth Branch GWR Centre	23 + 24 + 10
T/44	Trewenda Viaduct, complete	1 + 2 + 24
T/63	Tower Bridge	1
T/74	Treverbyn New	1 + 2 + 22 + 25
T/78	Tyne Bridge, general	1 + 2 + 6 + 8
T/79	Tyne Bridge, springing	1
T/81	Tyne Bridge, through arch	1
T/80	Tyne Bridge, arch meeting	1
T/86	Turbine blade	10
T/85	Turbine, hero	23 + 10
T/95	Turbine blades	10
T/96	Turbine blade	10
T/97	Turbine brush	10
T/93	Triple expansion reciprocation engine	10
T/90	Triple expansion reciprocating engine	10 + 2 + 6
T/119	Turbine, brush, Ljungstrom	12
T/118	Turbine, brush, 7000 kw	12
T/117	Turbine casing, brush	12
T/113	Trevithicks geared locomotive	12
T/112	Trevithick and Vivian loco	12
T/125	Tangye 500 hp gas engine	13
T/128	Tangye early gas engine	23
T/130	Tangye steam pump	23
T/134	Tangye modern pump	23
T/135	Tangye Roben engine	23
T/136	Tangye jack and Great Eastern	24 + 23
T/156	House at Totnes	12
T/155	Totnes	11 + 6
T/153	Totnes Street	11
T/152	Thatched cottage	11
T/166	Thatched cottage	11
T/174	Tremerton Keep	2
T/201	Trees in Draynes Wood	15
T/205	Trewortha Tor	15
T/254	Tudor arch	2
T/290	Tavistock Guildhall	30
T/306	Trevethy Stone	3 + 18
T/317	Truro Viaduct, wood	32
T/362	Tensile concrete testing machine	20

Crisp 4 cont. Lantern Slides
[These are arranged and stored in slide boxes]

Slide Number	Description	Number of paper referring to slide
W/18	Wood arch bridge, China	2
W/87	Windlass	10 + 23
W/84	Wommerera	10 + 23
W/99	Watts beam engine	10 + 15 + 23
W/103	Windmill and waterwheel. Hamaa	10 + 23
W/108	Waterwheel, St Keyne	10 + 23
W/109	Windmill, steel	10 + 23
W/133	Wheal Grenville beam engine	19 + 23
W/199	Windblew tree	15 + 18
W/196	Waves at Looe	15
W/242	Waterloo Bridge, centre	2
W/243	Waterloo Bridge, girders	2
W/244	Waterloo Bridge, spandril filling	2
W/245	Waterloo Bridge, rods	2
W/246	Waterloo Bridge, centre	2
W/247	Waterloo Briding piling	2
W/251	Westminster Bridge	2
W/284	Waterloo Bridge, side view through arch	2
W/287	Wesleyan Chapel, Liskeard, window	2
W/299	Well, Cornwall	2 + 3
W/298	Well, Cornwall	2 + 3
W/334	York Minster	2
W/343	Wood bridge, launching	
W/344	Wood bridge, launching	
W/368	Weigh batcher, double ended	20
W/367	Weigh batcher, single ended	20
W/360	Vicat Needle	20
W/357	Water-cement ratio curves	20

Crispin 5 35mm Slides

133 colour slides taken by S J Crispin of viaducts and bridges on the GWR main line Paddington to Penzance and industrial archaeology in Cornwall.

Crispin 5/1 Colour Slides Cornwall Railway - The Inclines

Slide No	Incline Name	Details
1	<i>Angarrick</i>	Plan and section
2		Sleeper
3		Trackbed
4		Trackbed
5		Trackbed
6		Water tank (negative)
7	<i>Penponds</i>	Plan and section
8	<i>Gonnamena</i>	Plan and section
9		Plan and section
10		Trackbed
11		Trackbed
12		Trackbed
13		Trackbed (showing sleepers)
14		Trackbed (showing sleepers)
15		Granite sleeper
16		Granite sleeper
17		Granite sleeper
18		Granite sleeper
19		Granite sleeper
20		Granite sleeper
21		Granite sleeper
22		Trackbed (towards cottages)
23		Cottage
24		Ruined building
25	<i>Scraesdon</i>	Plan and section
26		Engine shed & water quay
27	<i>Calstock</i>	Plan and section
28		Plan and section
29		Trackbed
30		Incline
31		Arch
32		Incline (River Tamar in foreground)
33		Viaduct
34		Viaduct
35	<i>Carmears</i>	Plan and section
36		Plan and section (with drawing of Moorswater Limekiln)
37		Trackbed (at bottom of incline)
38		Trackbed (in woods)
39		Trackbed (in woods)
40		Trackbed & arch (in woods)

Crispin 5/1 cont Colour Slides Cornwall Railway – The Inclines

41	<i>Carmears cont.</i>	'Wheat Pit Mill Line'
42	<i>Probus</i>	Plan and section
43	<i>Newquay</i>	Plan and section
44		Tunnel entrance (seafront)
45		Tunnel entrance (seafront)
46		Harbour (tunnel entrance in background)
47	<i>St Uny</i>	Plan and section
48		Plan and section
49		Trackbed
50	<i>Portreath</i>	Plan and section
51		Bridge
52		Incline and cut
53		Incline and cut
54		Incline and cut
55	<i>De Lanke</i>	Plan and section
56		Bridge
57		Trackbed
58		Incline
59		Blisland Church
60		Quarries
61		Quarries
62	<i>Hayle</i>	Plan and section
63	<i>Carn Marth</i>	Plan & section (& photos of locos 'Miner' & 'Spitfire')
64		Plan & section (& photos of locos 'Miner' & 'Spitfire')
65		Trackbed at Lanner
66		Trackbed at Lanner
67	<i>Looe (or Liskeard) Loop</i>	Plan and section
68		Accident
69		Liskeard Church
70	<i>Doublebois Bank</i>	Plan & Section (Part I)
71		Plan & Section (Part II)
72		Plan & Section (Part III)
74	<i>PA to PZ – the branches</i>	Porthminster – St Ives
75		Porthminster – St Ives
76		Porthminster – St Ives
77		Carnon (1933) (Piers of 1863 bridge in foreground)
78		Carnon (1933) (Piers of 1863 bridge in foreground)
79		College Wood (1863) (glass slide)
80		The Penpons – plan and section

Crispin 5/2 Viaducts: Paddington to Penzance (slides cover Saltash to Hayle)

Slide No	Details
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1	Viaducts. Map of the GWR main line from Saltash to Penzance
2	Sketches of viaducts on the GWR main line from Saltash to Penzance
3	Map of Cornwall railway lines and Index to lines
4	Royal Albert (1859) Rail & Tamar (1961) road bridges at Saltash
5	Plan of Royal Albert Bridge
6	Royal Albert Bridge (from the Tamar Bridge)
7	Royal Albert Bridge (from trackside)
8	Royal Albert Bridge (from trackside – Tamar Bridge behind)
9	Royal Albert Bridge (from rivers edge – Tamar Bridge behind)
10	Royal Albert Bridge (from Tamar Bridge)
11	Plans of "The Waders"
12	Coombe Viaduct
13	Coombe Viaduct
14	Coombe Viaduct
15	Coombe Viaduct
16	Coombe Viaduct (detail of top of pier)
17	Coombe Viaduct
18	Coombe Viaduct
19	Coombe Viaduct (negative)
20	Forder Viaduct
21	Forder Viaduct
22	Notter New Viaduct (glass slides)
23	St Germans Viaduct
24	Plans of "The Dells"
25	Tresulgan (in background)
26	Coldenrick Viaduct (from below)
27	Treviddo
28	Liskeard (Old) Viaduct [glass slide]
29	Liskeard (New) Viaduct [glass slide]
30	Moorswater (Old) Viaduct [glass slide]
31	Moorswater (New) Viaduct [glass slide]
32	Plans of "The Cliffhangers"
33	St Pinnock [glass slide]
34	Largin East (in background)
35	Largin East (detail of buttressed pier)
36	Largin East (detail of buttressed pier)
37	Largin East (in background)
38	Largin West (in background)
39	Drawwood
40	Derracombe
41	Derracombe (detail of pier & arch)
42	Derracombe (detail of underside of pier & arch)
43	Pendalake
44	Milltown (in background)
45	Milltown
46	Milltown (detail pier & arch)
47	Milltown (detail pier & arch – from under arch)

Crispin 5/2 cont. Viaducts: Paddington to Penzance (slides cover Saltash to Hayle)

Slide No	Details
48	Plans of "The Blondes"

49	St Austell [glass slide]
50	St Austell [negative] (houses in foreground)
51	St Austell (detail pier)
52	St Austell (detail pier)
53	St Austell
54	St Austell
55	Gover (in background)
56	Combe St Stephens (from side)
57	Coombe St Stephens (piers of old & new bridges)
58	Coombe St Stephens (pier)
59	Coombe St Stephens [glass slide]
60	Fal [glass slide]
61	Fal [glass slide]
62	Fal (old piers beside new bridge)
63	Plans of "The Sowgars"
64	Tregarne
65	Plans of "The Citizens"
66	Truro Viaduct
67	Truro Viaduct [negative] (detail of pier and arch)
68	Carvedras [negative]
69	Carvedras (detail of pier)
70	Carvedras [negative]
71	Carvedras (detail of pier and arch)
72	Carvedras
73	Plans of "The Miners"
74	Plan of "The Connector" (Redruth)
75	Redruth (Class 52 "Western" diesel locomotive)
76	Redruth [glass slide]
77	Redruth [negative]
78	Plans of "The Lofty"
79	Angarrack [negative] (from below)
80	Guildford Viaduct [negative] (details of pier & arches)
81	Plans of "The Lowly"
82	Hayle Viaduct
83	Hayle Viaduct

Note: slides 81 - 83 are not in the carousel, but in a separate envelope

