

# HURREN LANGMAN & JAMES COLLECTION

## **Bridges, Culverts, Fish lookouts, Roads, Curbing and Pathways, radio masts, S256**

The engineering partnership of Hurren, Langman and James consisted of Frank Hurren ASASM (1899-1992), William Wilson Langman and Wesley Hughes James ME (Adel), FSASM, MIE Aust, (b1898). “During 1928 Hurren established the first sustained consulting structural engineering practice in Adelaide to meet the small but growing need for more specialised reinforced concrete structural expertise. His practice survived the hard years of the Depression due to [Hurren’s] drive and self-motivation. For over twenty years, the practice of Hurren, Langman and James was the pre-eminent consulting structural engineering firm in Adelaide, highly respected for its innovation and the quality of its work” (Stacy 2005 p87). On 10 August 1956, on the retirement of Frank Hurren, the partnership of Hurren, Langman and James was dissolved. James and Langman continued as Langman and James from 1 July 1956.

Frank Hurren studied at the S.A. School of Mines and Industries then worked in Sydney. On his return to Adelaide he worked with both E. Stone and M.S. Stanley, and later, in partnership with Langman and James he designed the structures of many Adelaide buildings, such as Shell House, Elizabeth House, the Bank of N.S.W. and the Savings Bank Building. William (Bill) Langman was Mayor of Burnside 1967-68 and was very active in the Adelaide Rotary Club. Wesley Hughes James studied at the University of Adelaide and became a Junior Assistant Engineer in the Engineer-in-Chief's Department in 1922. He then went to England and America, returning to Adelaide in 1927 where he gained the Degree of Master of Engineering in 1931. James worked with W. Francis before joining with Hurren and Langman, where he designed such structures as the Pt. Augusta and Osborne Power Stations. He was Chairman of the Institution of Engineers (S.A. Division) in 1944 (Cumming and Moxam 1986).

### **Key references**

Cumming, D.A. and Moxham, G. (1986) *They Built South Australia*. Self published, South Australia.

Stacy, Bill. “A mad scramble’: Frank Emery Hurren, consulting structural engineer”. *Journal of the Historical Society of South Australia*, no.33, 2005: 87-101.

Bill Stacy, 'Hurren, Frank Emery (1899 - 1982)', *Australian Dictionary of Biography*, Volume 17, Melbourne University Press: 563-564.

### **Collection description**

Hurren, Langman and James were a structural engineering firm who worked with many architectural firms in South Australia and interstate. This collection of records came from the Mortlock Library of South Australia, at the State Library of South Australia as a specialist group of business records. It consists of plans and drawings, calculations for jobs, correspondence, specifications and books. As these records, when accessed by the archivists, had no discernible order, they have been organised into groups related to the functions of the buildings described, then the owner's name. They are a valuable addition to the Architecture Museum because they contain work by architects not previously represented in the collections. Plans are stored in plan file drawers unless designated as 'Box' when they are stored in the archive boxes.

# HURREN LANGMAN & JAMES COLLECTION

## Items in Series Order

Series No	Project				
S256/1/1-	Road, Fauldings factory				
S256/2/1-	Camera Eye Tower,				
S256/3/1-	Pipes, Hansen & Yuncken				
S256/4/1-	Bridge, Lyndoch				
S256/5/1-	Fish Lookout, Sellicks Beach				
S256/6/1-	Decker Oven, no location				
S256/7/1-	Adelaide Bridge, King William Rd				
S256/8/1	Radio Mast 5KA				
S256/9/1	Radio Mast 5AD				
S256/10	TV Tower, Perth, 1959				
S256/11	Torrens Lake Sluice Gate 1928				
S256/12	Glenelg seawall repairs 1938				
S256/13	Concrete rainwater tank 1937				
S256/14	Innes Bell test floor				
S256/15	Foreshore improvements at Glenelg 1929				
S256/16	Strengthening Seawall at Glenelg 1953				
S256/15	River Broughton floodwaters plan				
S256/16	PMG Dept 200ft Tower				
S256/17/1-34	5DN, 5RM Radio Station Aerial Masts	Commerce House, Featherstone Pl., Adelaide; CML Building, King William St, Adelaide; Springcart Gully, Renmark	McMichael & Harris; Caradoc Ashton	n.d.; 1935	1-10 sketches; 11-34 calcs
S256/18/1-3	Sea Wall, Retaining Wall	Corporation of Glenelg	Caradoc Ashton & Fisher	1938	1 sketches; 2-3 sections
S256/19/1	Beach Shelter	Corporation of	Caradoc	1953	1

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		Glenelg	Ashton, Fisher & Beaumont- Smith		sketch es
S256/20/1	Dressing Rooms	Corporation of Glenelg	Caradoc Ashton, Fisher & Beaumont- Smith	1953	1 sketch es
S256/21/1- 5	Australian Gypsum Products Pty Ltd		Innes Bell Flat Slab System	1932	1-2 plan, sectio n; 3-4 sampl es; 5 sketch
S256/22/1- 2	Trilok Steel Decking	Typical application	J Lysaght (Australia) Pty Ltd	1960	1-2 diagra ms
S256/23/1- 3	True Plug products	Typical applications	True Plug Co., Albion St, Sydney	n.d.	1-2 diagra ms; 3 bookl et
S256/24/1- 3	5PI Radio Station Aerial Mast	Crystal Brook		1937- 44	1 sketch es; 2- 3 struct ure
S256/25/1- 5	5KA Radio station Aerial Mast	Franklin St, Adelaide		1944	1 sketch es; 2- 5 struct ure
S256/26/1	E&WS Department, Tank	Belair	E&WS Department	1942	1 struct ure
S256/27/1- 4	E&WS Department, Sluice Gate seals	Murray Mouth Barrages	E&WS Department	1939	1-2 spec.; 3 sketch es; 4 details
S256/28/1- 15	SA Farmers' Union Ltd, Signage	Mile End	Garlick & Jackman	1938	1 sketch

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					; 2 structure; 3-5 draft letter; 6-7 typed letter; 8-15 cales
S256/29/1-2	Courier Mail Building, Radio Aerial Mast	Brisbane, Queensland	H W Atkinson and A H Conrad in association with Stephenson & Meldrum (Victoria)	n.d.	1-2 structure
S256/30/1-2	5AD Radio Station Aerial Mast	Advertiser Building, King William St, Adelaide		n.d.	1-2 sketches
S256/31/1	Radio Aerial Mast for SA Fire Brigades Board	Savings Bank of SA Bldg, King William St, Adelaide	McMichael & Harris	1952	1 struct' 1
S256/32/1	Tank Stand		Rheem Australia Pty Ltd	1971	1 struct' 1
S256/33/1-2	Botanic Gardens, tanks	North Tce, Adelaide		1965	1-2 struct' 1

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<u>SERIES</u>	<u>DESCRIPTION</u>	<u>DATE</u>	<u>PERSONNEL</u>
S256/1/1	Concrete <u>road</u> at <u>Fauldings factory</u> . Includes plan and calculations of materials needed. Marked 94(45)	April 1945.	Hurren Langman & James
S256/2/1	<u>Camera Eye Tower</u> . Calculations of materials needed. Marked 27 (47)	1947	Glover & Pointer, Engineers.
S256/3/1	Calculations for roof trusses for building for Hansen & Yuncken, revised for <u>Hume Pipes</u> . Marked 4 (46)	1946	Hurren, Langman & James
S256/4/1	Calculations for <u>bridge</u> for A F Kies at Lyndoch. Includes plan. Marked 109 (39)	Dec 1939	Hurren, Langman & James
S256/5/1	Calculations for <u>Fish Look-out Tower</u> at Sellicks Beach. Marked 20 (46)	1946	Hurren, Langman & James
S256/6/1	Plan for Vienna and semi scotch <u>oven</u> showing front elevation and sections. Blueprint. Drawer	n.d.	Small & Shattell, Melbourne
S256/6/2	Plan for <u>semi Scotch oven</u> showing front elevation and sections. Blueprint. Drawer	n.d.	Small & Shattell, Melbourne

## HURREN LANGMAN & JAMES COLLECTION

### Adelaide Bridge, 1929

S257/7/1

S256/7/1	<u>Adelaide Bridge</u> . Driving details for test piles. Blueprint. Drawer.	n.d.	R W Scott, City engineers
S256/7/2	<u>Adelaide Bridge</u> . Contour plan of existing Adelaide Bridge. Blueprint. Drawer	1/2/1929	R W Scott, City engineers
S256/7/3	<u>Adelaide Bridge</u> . Plan of existing bridge showing half plan, section at abutment and cross section. Blueprint. Drg no 2. Set no 6. Drawer.	16/11/1926	R W Scott, City engineers
S256/7/4	<u>Adelaide Bridge</u> . Tramways loading and bores etc. Blueprint. Drg no 4 Set no 6 Drawer	16/11/1926	R W Scott, City engineers
S256/7/5	<u>Adelaide Bridge</u> . General elevation and plan showing order of construction. Drg no 6. Blueprint. Drawer	1/2/1929	R W Scott, City engineers
S256/7/6	<u>Adelaide Bridge</u> . Abutments sheet No 1. Blueprint. Drg no 7 Set no 6. Drawer	1/2/1929	R W Scott, City engineers
S256/7/7	<u>Adelaide Bridge</u> . Plan of decking, sheet no 1. Blueprint. Drg no 13. Set no 8. Drawer	1/2/1929	R W Scott, City engineers
S256/7/8	<u>Adelaide Bridge</u> . Transverse section of existing bridge. Blueprint. Drg no 3 Set no 8 Drawer	n.d.	R W Scott, City engineers
S256/7/9	<u>Adelaide Bridge</u> . Abutments Sheet no 2. Blueprint. Drg no 8 Set no 8 Drawer	1/2/1929	R W Scott, City engineers
S256/7/10	<u>Adelaide Bridge</u> . External main arches. Blueprint. Drg no 10 Set no 8 Drawer	1/2/1929	R W Scott, City engineers
S256/7/11	<u>Adelaide Bridge</u> . End retaining walls. Blueprint. Drg no 12 Set no 8 Drawer	1/2/1929	R W Scott, City engineers
S256/7/12	<u>Adelaide Bridge</u> . Plan of decking.	1/2/1929	R W Scott, City

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	Sheet no 3. Blueprint. Drg no 15 Set no 8 Drawer		engineers
S256/7/13	<u>Adelaide Bridge.</u> Plan of decking. Sheet no 4. Blueprint. Drg no 16 Set no 8 Drawer	1/2/1929	R W Scott, City engineers
S256/7/14	<u>Adelaide Bridge.</u> Plan of decking. Sheet no 5. Blueprint. Drg no 17 Set no 8 Drawer	1/2/1929	R W Scott, City engineers
S256/7/15	<u>Adelaide Bridge.</u> Test piles driven at Adelaide Bridge. Blueprint. Drg no 5 Set no 10 Drawer	4/4/1928	R W Scott, City engineers
S256/7/16	<u>Adelaide Bridge.</u> Internal main arches. Blueprint. Drg no 9 Set no 10 Drawer	1/2/1929	R W Scott, City engineers
S256/7/17	<u>Adelaide Bridge.</u> Approach bow string arches. Blueprint. Drg no 11 Set no 10 Drawer	1/2/1929	R W Scott, City engineers
S256/7/18	<u>Adelaide Bridge.</u> Lamp standards and pilasters. Blueprint. Drg no 18 Set no 10 Drawer	1/2/1929	R W Scott, City engineers
S256/7/19	<u>Adelaide Bridge.</u> Pylons and side retaining walls. Blueprint. Drg no 19 Set no 10 Drawer	1/2/1929	R W Scott, City engineers
S256/7/20	<u>Adelaide Bridge.</u> Plan of decking. Sheet no 2. Blueprint. Drg no 14 Set no 13 Drawer	1/2/1929	R W Scott, City engineers

# HURREN LANGMAN & JAMES COLLECTION

**Radio Mast 5KA, 1944**

**S257/8/1**

S256/8/1	<u>Radio Mast 5KA.</u> (also called a vertical steel radiator) Calculations for erection of radio mast for station 5KA in Franklin St, Adelaide. NB Same calculations used in part for S256/9/1. Mast later moved to Central Mission Building (1943) Marked 108(47). Box.	1944-47	Hurren Langman & James
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# HURREN LANGMAN & JAMES COLLECTION

**Radio Mast 5AD, 1943**

**S257/9/1**

S256/9/1	<u>Radio mast</u> for station 5AD. Calculations and costs for radio mast erected on top of Richard's building above highest point of roof. NB Same calculations used in part for S256/8/1. Marked 108 (47). Box.	1940-43	Hurren Langman & James. Steeple Jack, Henry Bowden.
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# HURREN LANGMAN & JAMES COLLECTION

S257/10

S256/10

# HURREN LANGMAN & JAMES COLLECTION

**Torrens Lake, Sluice Gate**

**S257/11**

S256/11      Torrens Lake, sluice gate

1928

City Engineer and  
Surveyor

# HURREN LANGMAN & JAMES COLLECTION

**Glenelg Seawall**

**S257/12**

S256/12      Glenelg Seawall, for Glenelg Town      1941  
Council, repairs to seawall, new  
seawall, cross section

Hurren Langman  
and James

# HURREN LANGMAN & JAMES COLLECTION

**Concrete Rainwater tank**

**S257/13**

S256/13

Concrete Rainwater tank

1937

Walter J. White

# HURREN LANGMAN & JAMES COLLECTION

**Innes Bell test floor**

**S257/14**

S256/14

Innes Bell test floor

n.d.

Hurren Langman  
and James

# HURREN LANGMAN & JAMES COLLECTION

**River Broughton floodwaters plan** **S256/15**

S256/15/1-16	E & WS Department River Broughton floodwaters plan and specifications for the Lower River Irrigation Trust	1937	Hurren Langman and James
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