

# HURREN, LANGMAN & JAMES COLLECTION

## Architecture Museum, University of South Australia

**Shipping, air transport, bus, rail and tram depots, public road transport, defence forces and infrastructure** **S253**

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

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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.

This series consists of calculations, estimates, plans for wharves, bus and tram depots, train stations and depots, aerodromes, munitions buildings, cheer-up huts, bomb shelters

### In Series Order

S253/1/1-	Control Tower	Parafield		1940	
S253/2/1-	Cargo Shed	Pt Adelaide,		1939	
S253/3/1-8	Drill Hall	Torrens Parade Ground, Adelaide		1935-36	
S253/4/1	Auxiliary Power House	Salisbury		1946	
S253/5/1	Henley Foreshore	Henley and Grange		1953	
S253/6/1	Rifle Range	Keswick Barracks		1939	
S253/7/1	Hoist	Guinea Airways		1948	
S253/8/1	Garage, Bonds Tours	Norwood		1945	
S253/9/1	Garage, Pioneer Tours	Adelaide		1947	
S253/10/1-6	Municipal Tramways Trust	Hackney and Port Adelaide		1945-54	
S253/11/1	Harbors Board Office	Unknown		n.d.	
S253/12/1	Melbourne Wharf	Melbourne		1945.	
S253/13/1	Munitions buildings	Throughout state		n.d.	
S253/14	City Parking Station	Adelaide		1929	
S253/15	Jetty	Thevenard			
S253/16	Rail workshop	Pt Augusta		1943	
S253/17	Franklin Transport Ltd				
S253/18	ANA Hangar (H. Garnet Alsop Arch)	Parafield			
S253/19/1-10	Municipal Tramways Trust Amenities bldg Architects: Caradoc Ashton & Fisher	Port Adelaide		1946	

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S253/20/1-3	S A Railways Steel brake van Passenger side panel plates, Bogie louvre car class "V" 3.6" gauge	Islington		1946	
S253/21/1-13	Forwood Down & Co Ltd (Adelaide) Hangars for West Australian Airways			1928	
S253/22/1	SA Harbors Board, Port Adelaide Future Development, map, Colour photolithograph	Pt Adelaide		1949	
S253/23/1-5	Moana Breakwater	Moana		n.d.	1 data; 2-4 calcs; 5 sketches
S253/24/1	SA Harbours' Board	Port Adelaide	Engineer -in- Chief, SA Governm ent (?)	1939	1 details
S253/25/1-23	Guinea Airways Hangar	Parafield		1937, 1939	1-6, 8 plots; 7 sketches; 9-13 arch'l; 14-23 structure
S253/26/1	Water Storage Tank for M P Sandercock	Redfern, SA		1947	1 sketch
S253/27/1-3	Power House, Kingscote Electrical Services	Kingscote, Kangaroo Island	Bevan Rutt	1945-6	1-2 sketches; 3 structur

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S253/28/1	Adelaide Steamship Co. Terminal	Church St, Pt Adelaide		1963	1 structure
S253/29/1-16	J P Clausen & Son, Workshop	Fletcher Rd, Peterhead	E A Keal	1946-9	1, 7-8 arch'l; 2-6, 9-11 sketches; 12-16 structure
S253/30/1-8	Australian Gypsum Products Ltd, Waratah Gypsum Pty Ltd	Stenhouse & Marion Bays, YP		1934	1-2 details; 3 sketches; 4-5 structure; 6-8 plans of leases
S253/31/1-3	SA Harbours' Board, Intake & Outlet	AESCO. 'B' Lease, Osborne		1941.	1-3 structure
S253/32/1-5	Adelaide City Council, Women's Lavatories	Currie St, Adelaide	J D Chapman, Acting City Engineer & Surveyor	1943	1 spec.; 2 Conditions of Contract; 3-5 structure
S253/33/1	MTT Converter Station No. 15	Light Tce, Thebarton	Caradoc Ashton, Fisher, Woodhead & Beaumont-Smith	1950	1 arch'l
S253/34/1	Guinea Airways, Hangar	Parafield	McMichael & Harris	1942	1 arch'l
S253/35/1	Hangar	Maylands, WA		1939	1 struct'l
S253/36/1-2	Keswick	Anzac Hwy,		1939	1-2

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	Barracks, retaining wall	West Goodwood			struct'l
S253/37/1	Air Raid Shelter for Ellis & Clark Ltd	204 Flinders St, Adelaide		1942	1 struct'l
S253/38/1-2	Power Station for MTT	Port Adelaide	Davies & Rutt	1909, 1924	2 struct'l
S253/39/1-9	Power Station	Port Augusta	Electricit y Trust of SA	1948	1-4 sketch s; 5-9 arch'l
S253/40/1	SA Gas Co., Reforming Plant	Brompton		1964	1 struct'l
S253/41/1-2	Defence Small Arms Ammunition Factory	Tapleys Hill Rd, Hendon	Works Director for Victoria	1940	1-2 struct'l
S253/42/1-2	Yellow Cabs garage for H T Flook	Gawler Pl., Adelaide		n.d.	1 calcs; 2 sketch
S253/43/1-10	Converter Station No. 10	Second Ave, Sefton Park	Municip al Tramwa ys Trust	1942	1 survey; 2 calcs; 3-4, 6 sketch s; 5 arch'l; 7-10 struct'l

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<u>SERIES</u>	<u>DESCRIPTION</u>	<u>DATE</u>	<u>PERSONNEL</u>
S253/1/1	Control Tower Parafield Aerodrome Quantities calculations. Includes list of construction firms Marked 4 (40) Box	1940	Hurren Langman & James
S253/2/1	Cargo Shed No 20, Ocean Steamers Rd for South Australian Harbours Board. Calculations. Marked 105 (39) Box	1939	Harbours Board, architect. Hurren Langman & James
S253/3/1	Ground floor plan of new drill hall, offices, stores etc at Parade Grounds, Adelaide. Hand tinted ozalid. Draw	1935	C L Dawes, architect & H W Rowlands, Works Director
S253/3/2	First floor plan of new drill hall, offices, stores etc at Parade Grounds, Adelaide. Hand tinted ozalid. Draw	1935	C L Dawes, architect & H W Rowlands, Works Director
S253/3/3	Plan of eastern elevation and sections for new drill hall, offices, stores etc at Parade Grounds, Adelaide. Hand tinted ozalid. Draw	1935	C L Dawes, architect & H W Rowlands, Works Director
S253/3/4	Plan of main entrance elevation and sections for new drill hall, offices, stores etc at Parade Grounds, Adelaide. Hand tinted ozalid. Draw	1935	C L Dawes, architect & H W Rowlands, Works Director
S253/3/5	Plan of part end wings elevation and details for new drill hall, offices, stores etc at Parade Grounds, Adelaide. Hand tinted ozalid. Draw	1935	C L Dawes, architect & H W Rowlands, Works Director
S253/3/6	Plan of back wall (east) elevation, details and sections for new drill hall, offices, stores etc at Parade Grounds, Adelaide. Hand tinted ozalid. Draw	1935	C L Dawes, architect & H W Rowlands, Works Director
S253/3/7	Detail of reinforced concrete beam to replace RSJs. Drill hall. Blueprint. Draw	25/6/1936	Hurren Langman & James.

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S253/3/8	Calculations, quantities, estimates and tenderers list for new drill hall at Torrens Parade Ground. Marked 18(2). Box.	n.d.	Hurren Langman & James.
S253/3/9	Blueprint of details for steel roof trusses over gun park & drill hall. Marked Drg no 9. Draw	May 1935	Dept of Works, architect. Hurren Langman & James.
S253/4/1	Calculations and quantities for Auxiliary Power House at explosives factory, Salisbury. Marked 141(46) Box	1943-46	Hurren Langman & James
S253/4/2	Specification for diesel engines 990kva. Calculations for reinforcements to auxiliary power house. Salisbury. Marked 141(46) Box	1943-46	As Above
S253/4/3	Calculations and quantities for maintenance section of auxiliary power house. Salisbury. Marked 141(46) Box	1943-46	As Above
S253/4/4	Calculations and quantities for maintenance section of auxiliary power house. Salisbury. Marked 141(46) Box	1943-46	As Above
S253/4/5	Calculations and quantities for reinforcements to maintenance section and auxiliary power house. Salisbury. Marked 141(46) Box	1943-46	As Above
S253/4/6	Specification from Dept of Interior for erection of auxiliary power house and cooling ponds at Salisbury. Marked 141(46) Box.	March 1943	Hurren Langman & James
S253/5/1 A-C	Foreshore Henley & Grange Calculations, quantities and costs for retaining wall, repairs after storm, jetty repairs, shelter shed, ramps, toilets, and Lifesavers building. Marked 23(50). Box.	1953	Hurren Langman & James and Harbours Board.

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S253/5/2	Foreshore Henley & Grange Specification for reinforced retaining concrete wall & ramps to foreshore. Not marked. Box	Dec 1953	Hurren Langman & James
S253/6/1	Calculations for rifle range retaining wall at Keswick Barracks. Marked 102(39) Box	1939	Hurren Langman & James, Dept Interior and Works.
S253/7/1	Calculations for hoist for Guinea Airways. Marked 117 (45). Box	1945	Hurren Langman & James
S253/8/1	Calculations, sketches and quantities for Bonds Tours garage at Norwood. Marked 115(45). Box	1945	Hurren Langman & James
S253/9/1	Calculations for alterations to Simpson's old building for Pioneer Tours new garage at Wakefield St, Adelaide. Marked 15 and 74 (47) Box	1947	Hurren Langman & James. Garlick & Jackman, architects.
S253/10/1	Calculations for erection of amenities building for <u>Municipal Tramways Trust (MTT)</u> Marked 132(46) Box.	1946	Hurren Langman & James
S253/10/2	Calculations for addition of new floor to accommodation building at <u>Hackney for MTT</u> . Marked 80(46). Box	1945-46	Hurren Langman & James
S253/10/3 A-C	Calculations, sketches, specifications and quantities for alterations to servicing premises of <u>MTT depots at Port Adelaide, and Hackney</u> . Marked MTT. Box	1954-58	Hurren Langman & James
S253/10/4	Calculations, photographs & sketches for repair to boiler house at <u>Hackney for MTT</u> . Not marked. Box	1951	Hurren Langman & James
S253/10/5- 6	Convertor station no.15 at <u>Hackney for MTT</u> .	1951	Caradoc Ashton, Fisher and

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			Woodhead architects, R.J. Nurse contractor
S253/11/1	<u>Harbours Board Office</u> Calculations and quantities for alterations. Marked 19(2) Box	n.d.	Hurren Langman & James. Harbours Board
S253/12/1	<u>Melbourne Wharf</u> Calculations and quantities for alterations. Not Marked Box	1945	Hurren Langman & James.
S253/13/1	<u>Munitions Area.</u> Salisbury & Cheltenham. Plan for laundry in maintenance and store area. Marked S.A.M. 736. Blueprint. Draw	1941	Hurren Langman & James, & Dept Interior and Works.
S253/13/2	<u>Munitions Area.</u> Salisbury & Cheltenham. Plan for paint store. Marked S.A.M. 735. Ozalid. Draw	1941	Dean W Berry & Gilbert, architects. Hurren Langman & James, & Dept Interior and Works.
S253/13/2	<u>Munitions Area.</u> Salisbury & Cheltenham. Plan for TNT store at engineers workshop Building no 14. Marked S.A.M. 271. Ozalid. Draw	7 Mar 1941	Dean W Berry & Gilbert, architects. Hurren Langman & James, & Dept Interior and Works.
S253/13/3	<u>Munitions Area.</u> Salisbury. Plan for no 2 explosives factory maintenance area, clothing issue building no 4. Ground floor plan and sections. Marked S.A.M. 629. Ozalid. Draw	1941	Garlick & Jackman, architects. Hurren Langman & James, & Dept Interior and Works.
S253/13/4	<u>Munitions Area.</u> Salisbury. Plan for maintenance area carpenters workshop on site no 11. Ground floor plan and sections. Marked S.A.M. 678. Ozalid. Draw	1941	Garlick & Jackman, architects. Hurren Langman & James, & Dept Interior and Works.
S253/13/5	<u>Munitions Area.</u> Salisbury. Plan for stripping column in acetone rectifying house. Cordite section. Marked W-S/A 1224. Blueprint.	20 Dec 1941	Garlick & Jackman, architects. Hurren Langman & James,

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	Draw		& Dept Interior and Works.
S253/13/6	<u>Munitions Area</u> . Salisbury. Details of R W Heads & B P Holdfasts. Marked S.A.M. 185. Blueprint. Draw	7 Feb 1941	Garlick & Jackman, architects. Hurren Langman & James, & Dept Interior and Works.
S253/13/7	<u>Munitions Area</u> . Salisbury. Details of gritless asphalt for all sections. Marked S.A.M. 155. Blueprint. Draw	16 Jan 1941	Garlick & Jackman, architects. Hurren Langman & James, & Dept Interior and Works.
S253/13/8	<u>Munitions Area</u> . Salisbury. Cordite section, column rectifying in acetone rectifying house. Marked W-S/A 1300. Blueprint. Draw	20 Jan 1942	Garlick & Jackman, architects. Hurren Langman & James, & Dept Interior and Works.
S253/13/9	<u>Munitions Area</u> . Tapleys Hill Rd Hendon. Quantity calculations for the case and bullet building At the ammunition factory. Includes tenderer list. Marked 6 (40). Box	1940	Department of Interior
S253/13/10	<u>Munitions Area</u> . Tapleys Hill Rd, Hendon. Main store building specifications. Marked 104(39). Box.	1940	Department of Interior
S253/13/11-17	Salisbury Munitions Area, Maintenance Workshop drawings. (Rolled up together)	1941	
S253/13/18-59	Salisbury Munitions Area, Administrative Offices drawings.	No date	
	Salisbury Explosives Factory, Maintenance Area drawing.	1941	
	Roof framing and floor plan sketches, unknown project.	No date	

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(Rolled up together)

S253/13/60 -104	Exploder Examination Building No. 129, Fuse Section, Munitions Area, S.A.	1944
	Building No. 35, Salisbury.	1941
	Shell Filling Section, Acid Section, TNT Section, Detonator Section, Cap Section, Fuse Section and Cordite Section, Salisbury Munitions Area, S.A., drawings.	Various dates
	Double Change House, various Sections, Munitions area, S.A., drawing.	1941
	Ammunition Factory, Footsgray, VIC, drawing.	1940
	No. 2 Explosives Factory, Salisbury, S.A., drawing.	1941
	Lists of buildings.	
	Note: Section refers to area not drawing type.	

(Rolled up together)

S253/13/ 105-140	Watch Tower, Garages, Shell Filling Section, Acid and Maintenance Sections, TNT Section, Detonator Section, Cap Section, Fuse Section and Cordite Section, Salisbury Munitions Area, S.A., drawings.	Various dates
	No. 2 Explosives Factory, Salisbury, S.A., drawings.	

(Rolled up together)

S253/13/ 141-144	Boiler House, Salisbury Munition, S.A., drawing.	1942
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	No. 2 Explosives Factory, Salisbury, S.A., drawings.	1941	
	(Rolled up together)		
S253/14	City Parking Station, Adelaide		
S253/15	Jetty, Thevenard		
S253/16	Port Augusta Commonwealth Railways, extension to workshop sections	1943	Commonwealth of Australia, Dept of Interior, works and service, Adelaide
S253/17	Loading Platform for road transport terminus for Franklin Transport Ltd.		Arthur J. Claridge