

## MAJOR STRUCTURAL ENGINEERING PROJECTS

### YEAR 1990 – 2004

<u>S/N</u>	<u>PROJECTS</u>	<u>DESCRIPTION OF WORKS</u>
<b>Year 2004</b>		
1	Controlled demolition to RC wall at Block PB of Catholic High School	Controlled demolition at Catholic High School
2	Repair to defective/spalling concrete surface for Column S15 (South/West face) at Hydrocracker West Rack Fin Fan Area at Shell Bukom	Prepacked Grouting
3	Repair to defective pillars at TGU complex (S7 Category civil works) at Shell Bukom	Prepacked Grouting
4	Repair to defective concrete structure for Switch-house 24B at Hydrocracker Plant (Part C - Repair works) at Shell Bukom	Prepacked Grouting
5	Repair to defective concrete structure for switch-house 24B at Hydrocracker plant (Part B - Excavation, Propping & investigation work) at Shell Bukom	Excavation, Erection of Temp Propping & Structural Investigation
6	Proposed crack repair by cementitious grouting at No. 2 Jalan Parisan	Crack repair by cementitious grouting
7	Repair to defective concrete structure for switch-house 24B at Hydrocracker plant (Part A) at Shell Bukom	Repair to defective concrete structure for switch-house 24B at Hydrocracker plant (Part A)
8	A & A works to existing timber roof trusses at 20 Mount Sinai lane, Singapore 277011	A & A works to existing timber roof trusses
9	A&A to existing Holy Innocents' High School	Post Tensioning Works
10	Investigation and Assessment of concrete structure at TGU at Shell Bukom	Structural investigation
11	RD107 Upgrading of Vehicular Bridges at 8 Locations	Post tensioning works
12	Reconstruction of grout base for vessel E-2201A & E-2201B at IPA plant at Shell Bukom	Grouting to base
13	Repair to defective/spalling concrete surface at CD 5 complex at Shell Bukom	Prepacked Grouting
14	A&A to existing Holy Innocents' High School	Post Tensioning Works
15	Controlled demolition to RC beams at 20 Mt Sinai Lane	Controlled demolition
16	Repair to defective Beam and Columns at CD5 Complex (5 Quotations) at Shell Bukom	Prepacked Grouting
17	Epoxy grouting & patch repair to Rc footing at 51 Sakra Ave	Epoxy grouting & Patch repair to Rc footing

<b><u>S/N</u></b>	<b><u>PROJECTS</u></b>	<b><u>DESCRIPTION OF WORKS</u></b>
18	Crack repair to Singapore Changi Airport - Cargo Stand Runway	Crack repair to Cargo Stand Runway
19	A&A works to Chen Su Lan Methodist Children's Home AT 202 Serangoon Garden Way	Post Tensioning Works
20	Beam Strengthening at Bishan Park Secondary School	Post tensioning work
21	Repair to water seepage at 2 sty staircase soffot & balcony entrance @ Watten View No 44	Repair to water seepage
22	Shell Bukom - Supply of labour material and equipment for HDT5/6 fin-fan area	Supply of labour, material and equipment
23	Singapore Changi Airport	Demolition - Coring to manholes
24	A&A works to Chen Su Lan Methodist Children's Home AT 202 Serangoon Garden Way	Post Tensioning Works
25	Repair to Defective Column at V8301 (2nd Level) and Concrete Support at E8524 (A&B) , CD 5 at Shell Bukom	Prepacked Grouting
26	Controlled Demolition at Catholic High School	Coring of 150mm & 100mm dia. holes thru hollow core slabs for Phase 4, Blocks PD & PE
27	Catholic High School	Supply of 15.24mm dia prestressing strands
28	Shell Bukom - Pump Stut Area CD5	Prepacked Grouting
29	Controlled Demolition at Catholic High School	Cutting of RC columns for Phase 4, Blocks PB & PC
30	Shell Bukom - LOC Area	Prepacked Grouting
31	Shell Bukom - CD 5 Complex	Prepacked Grouting
32	Install bouldering wall at NACLI - South Bouna Vista Road	Supply & install wall
33	Proposed Redevelopment of Changi Prison Cluster B Complexat Upper Changi Road/Changi North Way	Post Tensioning
34	Visual inspection at Geylang VTC	Visual inspection
35	Install expansion joints at parapet wall & floor slab at Pulau Ubin	Supply materials and install new 7m of expansion joint at parapet wall & floor slab including of removal of existing worn-off expansion joint

**S/N PROJECTS****DESCRIPTION OF WORKS**

36	Catholic High School - Wall Coring at Armoury Room	Wall Coring at Armoury Room
37	Proposed Addition and alteration to the existing factory on lot 4757(Plot A13845)MK5 at No.231A Pandan Loop	Post Tensioning Work
38	Singapore Changi Airport, T3 Level B2	Coring of 100mm dia, holes and plate bonding to post-tensioned beams
39	Lor Ah Soo (LUP Project ) - Lift Motor Room	Prepacked Grouting to Existing Beams
40	No. 87 Jln Angin Laut	Repair to Water Leakage at Landscaping Pond by Cementitious Grouting with Waterproofing Membrane
41	Catholic High School	Cutting of Roof Slab & Wall Coring
42	Malaysian High Commission - Repair to Spalling and Damaged Concrete Areas at Existing Structures	Repair to Spalling and Damaged Concrete Areas at Existing Structures
43	Pavilion Park -Bukit Batok Phase 1 Repair to Water Seepage by PU Grouting	Repair to water seepage by PU Grouting
44	Widening of Commonwealth Drive and Tanglin Halt Rd/Construction of outlet drain at Commonwealth Drive and Tanglin Halt Rd	Civil Engineering Works
45	Repair works for water seepage at Basement 2 of Merchant Court Hotel.	Concrete Repair
46	Catholic High School - Cutting of 1 window opening	Cutting of 1 window opening (1.4m x 2.1m)
47	Proposed propping detail to carry out the RC structural repair work for 4th level cantilever walkway at CD5 at Shell Pulau Bukom	Repair work
48	Parliament House	Painting to Gantry System

**Year 2003**

1	Jurong Shipyard	Repair Works to Deck 1 & 2
2	Ngee Ann Polytechnic	Design & Build Extension to Fabric Roof at Block 1
3	Villa De Este	Structural Investigation and Repairs to Fire Damage to Unit 02-109A
4	Wisma Atria	Controlled Demolition & Reanchoring Works
5	Catholic High School	Controlled Demolition to Existing Column & Wall
6	Parliament House	Construction of External Canopy Structures

**S/N PROJECTS****DESCRIPTION OF WORKS**

- |   |   |  |
|---|---|--|
| 7 | Seagate Technology International, Woodlands Ave 7 | Post Tensioning Works                    |
| 8 | Shell Eastern Petroleum @ Pulau Bukom             | Repair Works to Columns & Vessel Support |

**Year 2002**

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|---|--|---|
| 1 | Tampines Mall                          | Demolition & Strengthening Works  |
| 2 | HDB Contract                           | Installation of Barricades, Vehicular Impact Guardrails & Planting of Shrubs at Surface Car parks |
| 3 | Singapore Changi Airport – Terminal 1  | Replacement of Existing Staircases to Escalators at The Transit Lounge                            |
| 4 | 30 Boon Lay Cougar Logistics Warehouse | Site Investigation & Strengthening Works  |
| 5 | Geylang East Ave 2 Temple              | Prestressing Works  |
| 6 | Shell Eastern Petroleum @ Pulau Bukom  | Repair Works to Columns & Vessel Support  |

**Year 2001**

- |   |   |   |
|---|---|---|
| 1 | 35 Robinson Road                              | Controlled Demolition Works                       |
| 2 | Plaza Singapura                               | Forming & Strengthening Works                     |
| 3 | Islamic School, Sims Avenue                   | Construction of new roof / Strengthening of Beams |
| 4 | Punggol East HDB Carpark                      | Post Tensioning to Multi Storey Carparks          |
| 5 | 4 Storey Factory at Pioneer Sector 2          | Post Tensioning Works                             |
| 6 | 5 Storey Single User Factory at Penjuru Close | Post Tensioning to Beam & Slab                    |
| 7 | Shell Eastern Petroleum @ Pulau Bukom         | Repair Works to Columns & Vessel Support          |

**Year 2000**

- |   |   |   |
|---|---|---|
| 1 | Jurong Point Phase II                           | Controlled Demolition Works                               |
| 2 | Singapore Tourism Board                         | Repainting Works with Rope Access                         |
| 3 | National Park Board – MacRitchie Nature Reserve | Construction of Boardwalks                                |
| 4 | Aspen Heights Condominium                       | Repair of Construction Joints & Leakage by Epoxy Grouting |
| 5 | Shell Eastern Petroleum @ Pulau Bukom           | Repair Works to Columns & Vessel Support                  |

**S/N PROJECTS****DESCRIPTION OF WORKS****Year 1997**

1	Formwell Factory	Post tensioning
2	Factory for Ryobi Kiso	Post tensioning
3	Ubi Road/Ubi Avenue	Post tensioning
4	PIE / TPE Interchange	Bridge Bearings
5	Esplanade at Raffles Avenue	Structural grouting
6	St. Patrick School	Micropiles
7	Kentish Green Condominium	Jet Grouting
8	Mobil Refinery	Structural maintenance
9	Chemical Warehouse at Tuas Avenue	Post tensioning

**Year 1996**

1	Budget Hotel at Queen Street	Structural strengthening for retrofitting programme
2	4 storey factory at Woodlands	Post tensioning
3	Building at Kampong Ampat	Post tensioning
4	Hok Kee House	Structural retrofitting
5	Transware Distribution Services	Post tensioning
6	Seletar East Camp	Structural works
7	Esso Refinery	Structural maintenance
8	Seletar Expressway - Nee Soon Camp to Upper Thomson Road	Supply and install Bridge Bearings

**Year 1995**

1	Tampines Mall
2	Shell Tower
3	Ellery Street in Fiji
4	Tuas Technology Park
5	Oriental Hotel
6	Hong Leong Centre
7	Pulau Seraya Power Station
8	Celcon Building at Tannery Road / Macpherson Road

## **S/N PROJECTS**

9 Asahi Glass Factory

### **Year 1994**

- 1 Seletar East Camp
- 2 Seletar Expressway / Woodlands South Interchange
- 3 Sungei Api-api Bridge
- 4 Tras Street
- 5 Grangeford Apartments
- 6 Outward Bound School (Camp 2)
- 7 Bridge at Pulau Bintan
- 8 Funan Centre
- 9 Grange Road Condominium
- 10 Eastern General Hospital

### **Year 1993**

- 1 Fowseng Plastics Factory
- 2 Shell Eastern Petroleum
- 3 Murnane Reservoir
- 4 Australian High Commission
- 5 Regent Hotel
- 6 89, Neil Road
- 7 Neptune Court
- 8 Kong Meng San Temple
- 9 Building at Robinson Road / Boon Tat Street

### **Year 1992**

- 1 Mobil sulphur stack
- 2 Orchard Point
- 3 Yishun Multiplex Cinema
- 4 Phoenix Tower
- 5 Factory at Toh Guan Road

## **S/N PROJECTS**

- 6 Holland Hill Mansion
- 7 Kovan Centre
- 8 Marco Polo Hotel
- 9 Raffles Hotel

### **Year 1991**

- 1 HDB Zone B (Bishan)
- 2 Sembawang Camp
- 3 Asia Radio Building
- 4 Scotts Building
- 5 Pulau Seraya Power Station
- 6 Singapore Port Institute Building at the Port of Singapore Authority

### **Year 1990**

- 1 Royal Holiday Inn
- 2 Shell Tower
- 3 Post Office Savings Bank Headquarters
- 4 Ocean Tower
- 5 Esso Refinery
- 6 King's Hotel
- 7 Jurong Pier Road Interchange
- 8 Balestier Road Building
- 9 Mobil Berth 2,4 and 5