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LIST OF TRANSPORTATION AND MAJOR INFRASTRUCTURE FOR LAND DEVELOPMENT PROJECTS UNDERTAKEN BY SMHB

* updated November 2024

Project	Client	Road Type/ Development Area	Year
1. Infinaxis Data Centre, Cyberjaya Structural and Foundation Detail Design	HSS Integrated Sdn. Bhd. for China State Construction Engineering (M) Sdn. Bhd. for Infinaxis Data Centre Sdn. Bhd.	-	2023-2025
2. Upgrading of Bridge Across Sg. Marang at FT003 Route Kuala Terengganu – Kuantan Road, Marang, Terengganu Design and construction of 2.5 kilometres upgrading existing road from two lane single carriageway to four lane dual carriageways	GPQ – LGBE Joint Venture	R5	2021-2025
3. Johor Bahru Light Rail Transit – Feasibility Study Feasibility study for identifying and selecting the preferred transportation system based on engineering, ridership, economic and financial assessment. The Consultant is also required to consider maximum of six projects and determine each project robustness and viability with respect to route, cost, financial viability and implementation.	Ancom Berhad	Light Rail Transit	2021-2022
4. Construction of A New Entrance, Fencing and Gateway, and Other Related Works at Istana Munarah, Seremban, Negeri Sembilan - New access road at the junction of existing road approximately 200 m length and 7 m width. - Construction of 2-types of new fencing, a Decorative Wall Fence approximately 321 m and another is Anti- climb Wall Fence approximately 708 m and height for both fences are 2.4 m (from ground level). - Construction of Gateway and Guard Post.	Jabatan Kerja Raya Negeri Sembilan	U1	2021-2024
5. Raub to Bentong (Package 5) of the Central Spine Road, Pahang – Package 5A: Raub Bypass (9.6 km)	Kementerian Kerja Raya Cawangan Kejuruteraan Jalan dan Geoteknik	R5	8/2009 (constructi on starts: 2017)
6. Raub to Bentong (Package 5) of the Central Spine Road, Pahang – Package 5B: Kg. Orang Asli Sg. Chandan ke Kg. Asap (16 km)	Kementerian Kerja Raya Cawangan Kejuruteraan Jalan dan Geoteknik	R5	8/2009 (constructi on starts: 2017)
7. Raub to Bentong (Package 5) of the Central Spine Road, Pahang – Package 5C-1: Kg. Asap ke Kg. Sertik (16 km)	Kementerian Kerja Raya Cawangan Kejuruteraan Jalan dan Geoteknik	R5	8/2009 (constructi on starts: 2015)
8. Raub to Bentong (Package 5) of the Central Spine Road, Pahang – Package 5D: Bentong Bypass (10.3 km)	Kementerian Kerja Raya Cawangan Kejuruteraan Jalan dan Geoteknik	R5	8/2009 (constructi on starts: 2015)



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Project	Client	Road Type/ Development Area	Year
9. Projek Mass Rapid Transit Laluan 2: Sungai Buloh-Serdang-Putrajaya (SSP) – Southern Kuchai Lama-Serdang Detailed design and construction supervision of Packages V204, V205, V206, V207, S204, S205 and S206.	MMC Corporation Berhad – Gamuda Berhad JV	Mass Rail Transit	2014-2021
10. East Klang Valley Expressway (Kuala Lumpur Outer Ring Road) Design of 16 nos. of Bridges; specifically, Ampang Interchange including Ampang Spur Road, and Ukay Perdana Interchange.	Ahmad Zaki Resources Berhad	Expressway	2013-2018
11. Master Plan for Pengerang Petroleum and Maritime Industrial Park in Teluk Ramunia, Pengerang Johor Development of Land Use Master Plan for 1,700 acres to be reclaimed from the sea for an integrated chemical logistic park.	Spektrum Budi Sdn Bhd (Subsidiary of Benalec Sdn Bhd)	1,700 acres	2012-2013
12. Klang Valley MRT – Plaza Phoenix to Kajang, Selangor (in association with Mott MacDonald (Malaysia) Sdn Bhd, H&T Associates Sdn Bhd, VERITAS Architects Sdn Bhd, Khairi Consult Sdn Bhd, T&T Konsult Sdn Bhd, KL Prima Sdn Bhd, MMSB Consult Sdn Bhd and Zaidun-Leeng Sdn Bhd) Detailed design of Packages V6-V8, construction supervision of Packages V5-V8 including Kajang Depot.	MMC Gamuda KVMRT (PDP) Sdn Bhd	Mass Rail Transit	2011-2017
13. Lojing Highland Resort Development in Ulu Nenggiri, Gua Musang, Kelantan Consultancy services to obtain planning and EIA approval for development on a land area of 3,713 hectares and detailed design of earthworks and 5 km access road from Simpang Pulai-Gua Musang Highway.	Lojing Highland Resort Development Sdn Bhd	3,713 hectares	2011-2012
14. Infrastructure Works for Cherating Mainland Coastal Tourism Development at Kuantan, Pahang Road improvement to tourism development areas in Cherating (217 acres) and Chandor (744 acres). Detailed Design and Supervision.	East Coast Economic Development Council (ECERDC)	217 acres, 744 acres	2010-2012
15. Central Spine Package 3 – Raub to Bentong Feasibility study and detailed design of 45 km Federal Route 8 roads upgraded to 2-lane dual carriageway.	East Coast Economic Development Council (ECERDC)	R5	2009-2014
16. KLIA 2 - New LCC Terminal and Associated Works, Sepang, Selangor – Utilities Package, Selangor Detailed design, construction supervision and utilities coordination and clash analysis.	Malaysia Airport Holdings Berhad	-	2009-2011
17. Universiti Putra Malaysia Development Master Plan 2008 Traffic study and recommended options to improve traffic flow during peak hours within UPM.	Arkitek Urbanisma Sdn Bhd	-	2009
18. Feasibility Study for Mersing to Kg. Sedili Besar New Coastal Road Feasibility study and EIA for a new coastal road of 65 km long to enhance tourism activities along that coastal belt.	Majlis Pembangunan Wilayah Ekonomi Pantai Timur (ECERDC)	R3	2009
19. Expansion of Masjidil Haram, Makkah, Saudi Arabia	Hijjas Kasturi Associates Sdn Bhd	-	2008



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Project	Client	Road Type/ Development Area	Year
Conceptual engineering design of traffic tunnel, pedestrian tunnel, utility tunnel, wastewater, solid waste, water supply/recycle water and drainage.			
20. Internal Roads for Politeknik Hulu Terengganu Concept design of roadworks, earthworks, drainage system and utility supply.	Jabatan Kerja Raya, Malaysia	-	2008
21. Bukit Lanjan-Jalan Duta Parapet Upgrading Study and recommendations to strengthen metal parapet along sections of the North Klang Valley Expressway.	PLUS Bhd	Expressway	2007
22. Interchanges along Johor Bahru Inner Ring Road for Iskandar Malaysia Detailed design and construction supervision of an elevated bridge over the existing signalised Jalan Yahya Awal/Johor Bahru Inner Ring Road junction and an elevated Jalan Abu Bakar Interchange and associated works. - Dual two-lane carriageway bridge crossing Jalan Yahya Awal/Johor Bahru Inner Ring Road. - A Trumpet Interchange for Johor Bahru Inner Ring Road traffic turning east and west to Jalan Abu Bakar with a split ramp to the future Central Malaysian Properties Sdn Bhd's development. - Dual two-lane carriageway multi-span viaduct crossing Jalan Sg. Chat/Johor Bahru Inner Ring Road junction. - Single-lane elevated ramp for traffic from Jalan Abu Bakar turning to Johor Bahru Inner Ring Road.	South Johor Investment Corporation	U5	2007
23. Nam Theun 1 HEP, Laos Detailed design of access road to hydropower dam project. Realignment of main access road (5.5km) and access road to the right bank for construction of the diversion tunnel and for excavation of the dam foundation.	Maunsell Ltd	-	2007
24. Pahang to Selangor Raw Water Transfer Project Detailed design of access roads to tunnel adit, dam and intakes for water supply project.	Kementerian Tenaga, Air dan Komunikasi, Malaysia	-	2007
25. Grade Separated U-Bar Interchange for Jalan Tebrau/Jalan Harimau, Jalan Tebrau/Jalan Air Kuning, Jalan Lingkaran Dalam/Jalan Tebrau, Jalan Lingkaran Dato' Sulaiman, Johor. Design of bridge utilizing pre-tensioned pre-cast U5 beam of 1 m high and post-tensioned pre-cast U beam of 1.9 m high of various spans.	Jabatan Kerja Raya Malaysia, Cawangan Jalan	U5	2005
26. Township Development in Kuantan, Pahang Environmental impact assessments, environmental monitoring programme.	Kurnia Setia Development Sdn Bhd	600 hectares	2005-2006
27. Gerbang Selatan Bersepadu Project – CIQ Complex Road Network Detailed design and construction supervision of an entry and exit road networks to the new Customs, Immigration and Quarantine (CIQ) Complex at Johor Bahru. Involving a three-tier interchange at Jalan Lingkaran Dalam/Jalan Lumba Kuda junction and light vehicle ramps connecting	Gerbang Perdana Sdn Bhd	U5, U3 & U1	2002-2008



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CIQ to the future dedicated highway to Senai Airport. There are in total 7 bridges, 8 vehicular box culverts, 110,000 m ² of road pavement and 3,100 m ² of retaining wall in this project. Three PUB pipelines are affected and need to be relocated/protected.			
28. Master Infrastructure Study: Karambunai Peninsular Development, Sabah Detailed design and construction supervision of Phase 1; comprising access road (2 km), drainage, sewerage, water supply and telecommunications.	Karambunai Resorts Sdn Bhd	1,500 acres	2001
29. Jalan Cheras/Phoenix Plaza Interchange, Kuala Lumpur, Malaysia Detailed design and construction supervision of a grade separated interchange at Jalan Cheras/Taman Len Seng junction. It involves 2 pre-stressed cellular deck concrete bridges, 1 reinforced concrete cellular deck concrete bridge and 2 pre-cast segmented arch underpasses and 16,000 m ² of retaining walls.	Dewan Bandaraya Kuala Lumpur/MTD Construction Bhd	U5	2001-2009
30. Common Utility Tunnel (CUT) for Putrajaya Development Detailed engineering design of an underground tunnel which housed and provides a protected environment for power and telecommunication cables, potable water supply pipes, gas pipes and telemetry cables. Length: Primary CUT 7,633 m, Secondary CUT 1,154 m, Tertiary CUT 2,118 m. Total 10,905 m.	Putrajaya Corporation	10,905 m Utility Tunnel	1999-2005
31. Putrajaya Bus and Taxi Terminal – Precincts 1 & 9 Putrajaya Detailed engineering design and construction supervision of civil and structural, mechanical and electrical and testing and commissioning of the terminals.	Perbadanan Putrajaya	Public Transportation Terminal	1999-2000
32. Integrated Utility Planning and Design Consultant for Phase 1A and 1B of Putrajaya Development Utility planning and design coordination for Putrajaya Township comprising government complex, residential areas, comprehensive public transportation network and infrastructure.	Putrajaya Holdings Sdn Bhd	4,400 hectares	1997-2000
33. Shah Alam to Bandar Baru Batu Arang Trunk Road, Phase 1 & 2, Selangor, Malaysia PED, EIA study, detail design and construction supervision for 16 km single 2-lane carriageway.	Oxford Alliance Sdn Bhd	U5	1996-2002
34. Internal roads for Universiti Malaysia Sabah, Malaysia Detailed design and HOD during construction of the project.	Syabas Hakikat Sdn Bhd	U1	1996-1999
35. Utilities Coordination Services and Preparation of Utility Master Plan Detailed design of five underground utility systems and related facilities (potable water distribution, recycle water distribution, medium and low pressure gas distribution, telecommunication ducts and wastewater collection), design review of wastewater treatment facilities, feasibility study of solid waste system, utility coordination, construction supervision and preparation of airport utilities master plan.	Kuala Lumpur International Airport Berhad	-	1996-1998

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36. Kajang Traffic Dispersal Ring Road Section 2 (SILK), Selangor, Malaysia Detailed design and construction supervision of 14.4 km dual 3-lane carriageway with 2 m wide median. Section 2 comprises two interchanges and five concrete bridges.	Sunway Construction Berhad/Sistem Lingkaran Lebuhraya Kajang Sdn Bhd (SILK)	U5	1995-2004
37. Infrastructure for Bandar Nusajaya, Gelang Patah, Johor, Malaysia Preliminary Engineering Design and detailed design of 20 km of dual 2 and 3 carriageway, bridges and interchange.	Prolink Development Sdn Bhd	Expressway	1995-2000
38. Bandar Nusajaya, Gelang Patah, Johor-Infrastructure Works Planning, detailed design, project management, contract administration and construction supervision of: 20 km of dual-two and dual-three carriageway expressway, bridges and interchange. 25 km of steel water supply mains with diameter ranging from 300 mm to 1200 mm, reservoirs and pumping station to provide 100 Mld of supply. 25 km of trunk sewer network with diameter ranging from 300 mm to 2000 mm to serve an population equivalent of 450,000 (Estimated Population). - A new sewage treatment plant to serve 450,000. - Trunk drains up to 40 m width designed to discharge 1:100 year flood returns with interconnected retention ponds. - Coordination of fiber optic and coaxial network for advanced telecommunication system. - Coordinating of power supply infrastructure to provide 155,000 kW comprising 132 kV and 22 substations, underground cabling network for 132 kV and 22 kV lines.	Prolink Development Sdn Bhd	3,300 hectares	1995-2000
39. Commonwealth Games Facilities - National Aquatic Centre Civil and Structural and Mechanical and Electrical design, and site supervision works, testing and commissioning of the aquatic centre.	United Engineers (Malaysia) Berhad	-	1995-1998
40. Kuala Lumpur Middle Ring Road Package 9, Kuala Lumpur, Malaysia Detailed design and construction supervision of 8.3 km dual 3-lane carriageway. Package 9A involves the construction of 6 concrete bridges while Package 9B has 1.3 km long viaduct.	Jabatan Kerja Raya, Malaysia	U5	1994-1999
41. Geotechnical advise on Butterworth to Changkat Jering Toll Expressway Provide geotechnical expertise to ESA involving slope stability analysis, settlement prediction, trial embankments and foundation treatment on very soft marine clay.	ESA Jurutera Perunding Sdn Bhd	Expressway	1990
42. North Klang Valley Expressway: Bukit Lanjan to Jalan Duta Detail design and construction supervision for the 3-lane dual carriageway of 8.5 km from Bukit Lanjan to Jalan Duta via a 3-tiered interchange.	PLUS Bhd	Expressway	1989-1992

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43. Access road to Linggiu Dam, Johor, Malaysia Detailed design and construction supervision of a 2-lane single carriageway rural road of 6 km including a single span bridge.	Public Utilities Board, Singapore	R5	1988
44. Pembinaan Jalan dari TUDM Subang ke Jalan Puchong, Selangor, Malaysia Detailed design of a diamond interchange and upgrading of a 2-lane dual carriageway. The works also include 12 bridges and 2 foot bridges.	Jabatan Kerja Raya, Malaysia	R6	1984
45. Diversion of Sungai Semenyih Dam access road, Selangor, Malaysia Detailed design and construction supervision of a 2-lane single carriageway rural road of 7.5 km on mountainous terrain.	Jabatan Bekalan Air, Selangor, Malaysia	R4	1984
46. Pembinaan Jalan Alternatif/Gantian Jalan Kg. Baru Subang/Kg. Batu Tiga, Selangor. Malaysia Detailed design of a 2-lane single carriageway rural road of 6 km including a 3-span bridge and 2 box culverts.	Jabatan Kerja Raya, Malaysia	R5	1983
47. Pembinaan Jalan Alternatif/Gantian Jalan Kg. Baru Subang/Kg. Batu Tiga, Selangor. Malaysia Detailed design and construction supervision of a 2-lane single carriageway rural road of 6.6 km and upgrading of 3 km of existing road including a 3-span bridge and a box culvert.	Jabatan Kerja Raya, Malaysia	R5	1982