

Review 2015

YEARS OF EXCELLENCE

ECAS-EJ Consultants Pte Ltd

Welcome to our 2015 Review!



Founded in 1996, ECAS-EJ is now 120 employees strong. We count on 9 Professional Engineers to support engineering design focusing on Buildings, Bridges and Roads, Rail, and Tunnels.

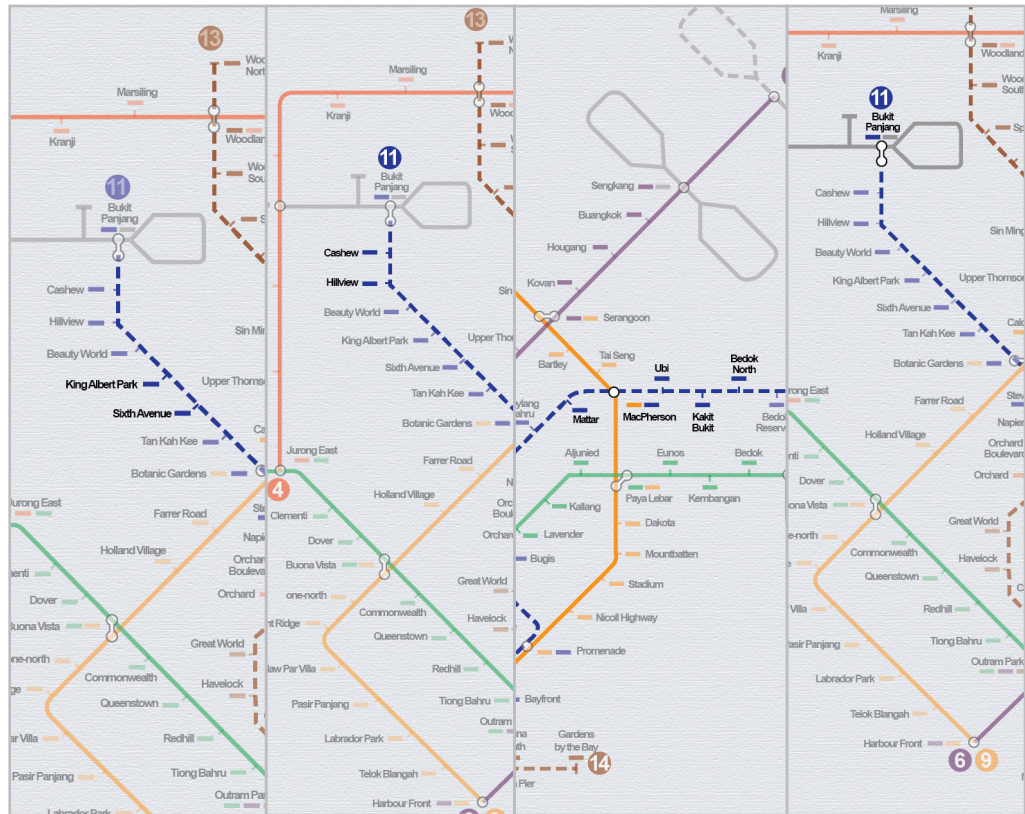
The past 12 months have been very fruitful for ECAS-EJ and we are truly pleased with our accomplishments. We handed over demanding projects like the construction of a new fast-track Punggol Cove Primary School, upgrading of Nanyang Primary School, Seastrand Condominium, two 66kV substations at Cleantech Park and Wenya.

For infrastructures projects we are proud to be involved with Hillview and Cashew Stations, Ubi and Bedok town Park Stations which have been completed, as well as road widening works, drain upgrading works and heavy vehicle parks. This year, we have started to explore overseas markets in the areas with high demand for foreign expertise.

We welcome the new year with high hopes for interesting and challenging projects in Singapore. This new year is also special to us as we look forward to our 20th founding anniversary celebrations.

We invite you to learn more about our work by exploring this year's review. You can also connect with us through our website at www.ecasej.com.sg.

Kind Regards,
Er. Chan Ewe Jin
Managing Director



Project Focus: Downtown Line

The Downtown Line of the MRT is a complete underground system connecting the west and east to the downtown area of Singapore.

ECAS-EJ Consultants offered Qualified Person Supervision services for Hillview and Cashew stations in Stage 2, and for Mattar, Macpherson, Ubi, Kaki Bukit and Bedok Town Park stations in Stage 3. We also offered Accredited Checking services for Sixth Avenue, King Albert Park and Bukit Panjang Stations. The Downtown Line Stage 2 is a 16.6km stretch composed of 12 stations along the Bukit Timah Road corridor and depot located at Jalan Gali Batu at the northern end of the Line. The Downtown Line Stage 3 is the final stage of the Downtown Line MRT system which consists of 16

stations spanning between River Valley station and Expo Interchange station with a total route length of about 21km.

Hillview and Cashew Stations:

This contract comprised of providing Qualified Person Supervision to the design, construction, and competition of architectural, civil, structural, electrical and mechanical works for the stations at Hillview and Cashew, the connecting bored tunnels between the stations, the bored tunnels at contact boundary of Contract 912 and Contract 913 and the TBM retrieval shaft for Contract 915.

Ubi and Bedok Town Park Stations:

Contracts 928 and 929A comprised of Qualified Person Supervision for 5 stations with a tunnel length of 13km including connections to Kim Chuan

Depot. The 5 MRT stations are Mattar (MTR), MacPherson (MPS), Ubi (UBI), Kaki Bukit (KKB) and Bedok Town Park (BDT).

Sixth Avenue and King Albert Park Stations:

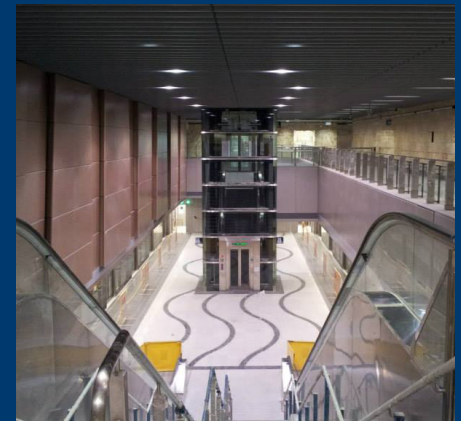
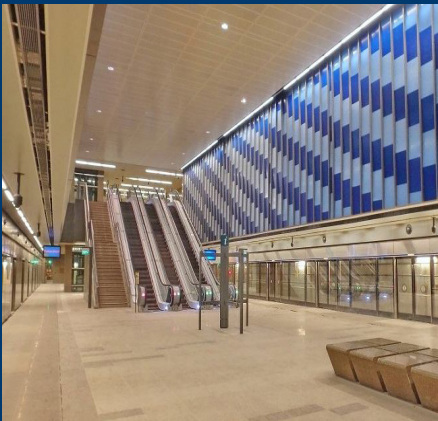
ECAS-EJ was also appointed as Accredited Checker for the design and construction of Sixth Avenue and King Albert Park Stations and tunnels. The main structural elements drawings and calculations of both permanent structures and temporary structure were checked to ensure compliance with the engineering codes and authority requirements, and are adequate and safe for future use. King Albert park and Sixth Avenue Station are each 180m long and connected by 1400m long bored tunnels. Both stations are Civil Defence (CD) shelter.

Bukit Panjang Station:

We were also appointed Accredited Checker for Contract 912 comprising of the design and construction of a station at Bukit Panjang (BKP) and its Cut & Cover Tunnels for approximately length of 1630m. The Bukit Panjang station is a Civil Defence (CD) shelter and is located along Upper Bukit Timah Road at the junction of Bukit Panjang and

Choa Chu Kang Road / Woodlands Road. The main station, entrances, and tunnel structures are proposed to be constructed by cut and cover method in a bottom-up sequence. Temporary works consist of secant pile walls, continuous bored pile walls, and diaphragm walls. This contract also includes construction of vehicular viaduct, the vehicular flyover consists of 5-span of single cell box girder per carriageway. These main structures are continuous at all crossheads except the crossheads with expansion joints where the approach structures start. Bearings are provided for the box girders at the expansion joints. Each crosshead is supported by two piers. Approach structures are connecting the main structures at both ends at grade road.

We are honoured to have been provided the opportunity to participate in all of these projects for an MRT line that will add a lot of value to the transportation system of Singapore. The Downtown Line will be fully operational by 2017.



Pictures taken from the LTA Website

2015-2014 Awards

ECAS-EJ's dedication to quality and safety has led to numerous awards. We will continue to strive for excellence in every job we take.



QPS Safety Award
C928

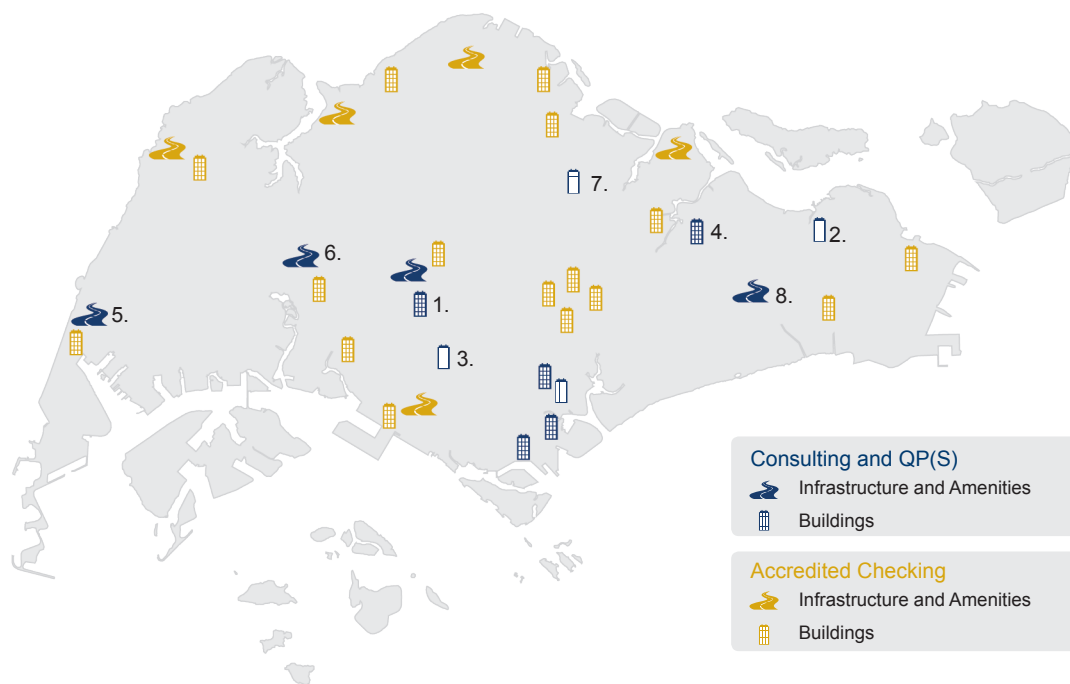


SSSS Steel Award
Seacare Hotel



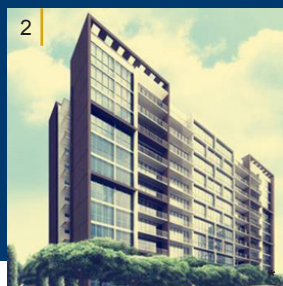
BCA Green Mark Gold
Kai Hotel

Projects Completed in 2015



Alba

Erection of 19-storey residential building (total of 55 units) at Cairnhill Rise



Seastrand Condominium

9 blocks of residential building (total of 473 units) with swimming pool and communal facilities at Pasir Ris



Nanyang Primary School

Upgrading included a new indoor sports hall, admin block, one kindergarten, and 2 blocks of classrooms



Punggol Cove Primary School

Construction included three classroom blocks, admin block, and an indoor sport hall



Tuas South Avenue 8/10

Staging area at Tuas South Avenue 8 and proposed sewer at Tuas South Avenue 10



66kV Substations

66kV substation design for JTC and construction of substations at Cleantech Park and Wenya



Greenwich V

Commercial and Residential Development including a 5-storey condominium with communal facilities



Ubi to Bedok Town Park: DTL

Construction and completion of civil defence Bedok Town Park station and tunnels to Ubi Station

Upcoming Project: Lor Halus

ECAS-EJ was appointed the Lead Consultant for the conceptual design of entire Lorong Halus infrastructure which includes roads, drains and sewers. The estimated area of the Lorong Halus Industrial Estate is 110 ha and it partially sits on a former landfill site. The construction of Phase 1 of the works, including forward works and

diversions, was also underway. The proposed 8-lane road for Phase 1 is approximately 770m, including a culvert crossing over the Serangoon River. The total length of drains is approximately 1.6km with 1.2km of 1800mm diameter sewers at deep depths. The work is scheduled to complete in mid 2016.



Looking abroad

Exciting business opportunities await ECAS-EJ as we extend our operations overseas. This 2016, we are setting up a Building Information Modelling (BIM) Resource and Operations Centre in the Philippines, the world's number one business process outsourcing destination.

It is our vision to establish an efficient back office operations

support system that would allow us to concurrently offer complete BIM services to local and regional industry players. We believe that our knowledge and experience gathered in our 20 years in Singapore will allow us to create and manage effective multidimensional models for our clients, which in turn, would enable them to efficiently design, construct and operate various facilities.

About ECAS-EJ Consultants Pte Ltd

Drawing on our 20 years of experience, ECAS-EJ provides consultancy, design, and accredited checking services for civil and structural engineering with expertise in rail, bridges, tunnels, and building works. The company is ISO 9001 certified for Quality, ISO 14001 certified for Environment protection, and OHSAS 18001 certified and bizSAFE STAR for Safety in the workplace. ECAS-EJ counts on 9 Professional Engineers and more than 120 employees to support our clients in their projects around Singapore.

People



9 Professional Engineers

More than 120 professionals
including engineers and
support personnel

Services



Design Consulting
Construction supervision
Assessment and investigation
Steel and Rebar Detailing
Design for Safety
Complete Building Information Modelling (BIM)
– architectural, structural, mechanical, electrical,
and plumbing & fire protection plan

Capabilities



Rail Engineering
Building Engineering
Tunnel Engineering
Infrastructure Engineering
Geotechnical Engineering
Road and Bridge Engineering
Structural Engineering