



CASE STUDY >

LEVEL CROSSINGS REMOVAL PROJECT

PROJECT OVERVIEW

RSGx were awarded the AWP2 Enabling and Final High Voltage Works package with the Southern Program Alliance, on the rail line from Frankston to Glen Huntly. The Southern Program Alliance is a section of the \$6 billion Level Crossings Removal Project, which involves the removal of 75 level crossings in Melbourne, Victoria. The works, which commenced upon award, in September 2020, initially consisted of HV cable hauling, terminations, earthing and bonding scopes. The package then progresses through to the commissioning phase, which is planned for late 2021.

RSGx also is involved in HV signaling scopes on South Eastern Program Alliance (SEPA) and Rail System Alliance (RSA), which RSG assisted with signaling infrastructure along Manchester Road, Mooroolbark and Maroondah highway, Lilydale, where Two level crossing are being removed and replaced with rail over bridge solutions, two new stations and a new 900 space multi carpark.

At RSA, RSGx are assisting with the delivery of the high capacity signaling on the Sunbury and Cranbourne/Pakenham lines. The cabling and equipment installed will form part of the of the Bombardier CBTC technology along 2 of Melbourne busiest routes allowing for up to 18 train movements in an hour at peak and once the Metro tunnel is completed.

SCOPE OF WORK

ENABLING & FINAL SIGNALLING HIGH VOLTAGE WORKS:

All 3.3 / 2.2 KV HV signaling works such as:

- ◆ Cable hauling, cable joining and terminations of 2c/16mm or 3c/35mm HV cables.
- ◆ Install of earth grids, cad weld and testing of earth systems.
- ◆ Installation of 3.3/110V & 3.3/400V Transformers and associated equipment (Cable trays etc.) in REB, SER and PER rooms.
- ◆ Installation of HV XIRIA switchgear and associated equipment including SCADA RTU cabinets in HV location cases.
- ◆ Installation of VLD boards, cabling, terminations, and testing.
- ◆ Completion of CTCs for relevant tasks and VLF testing.
- ◆ Track Bonding and DC negative return cables.
- ◆ 110V Signal box connections and associated cabling to signaling equipment such as Train stops/ Point Machines/ Axle Counters / Derailers etc.

SOLUTION

RSGx have a team of experienced rail, HV and signaling technicians, who have forged a very strong relationship on each of the projects, since award. RSGx prides itself on having the right team to undertake the works and to integrate with the client to deliver what's Best for Project, which at peak increased to 10 personnel, comprising of one supervisor, one Commissioning Lead, and eight technicians.

ACHIEVEMENTS TO DATE

Currently delivering works on time and on budget for our lump sum packages, but most importantly delivering our scope with No LTIs or MTIs. RSGx's Number 1 priority is our people and are committed to delivering safe outcomes.

CLIENT

SOUTH EASTERN PROGRAM ALLIANCE (SEPA)
SOUTHERN PROGRAM ALLIANCE (SPA)
RAIL SYSTEM ALLIANCE (RSA)

SERVICES PROVIDED

INSTALLATION AND COMMISSIONING
ELECTRICAL & INSTRUMENTATION
HIGH & LOW VOLTAGE
COMMISSIONING
PERMIT TO WORK
HVSR – AUTHORSIED SIGNAL
RECIPIENT
SIGNALLING TRACTION POWER

SCOPE

HV ENABLING AND FINAL HV WORKS
CONSTRUCTION
PRE-COMMISSIONING
COMMISSIONING
QA & COMPLETIONS

INDUSTRY

RAIL
INFRASTRUCTURE

LOCATION

VICTORIA

