

CASE STUDY

COMMUNICATIONS SHELTER VICTRACK



Over the next decade, the rail sector will undergo extensive growth to build a better and more sustainable future.

As part of this overhaul and new build projects, rail asset owners and operators will rely on state-of-the-art, cost-effective communications solutions to underpin the safety and reliability of their passenger and/or freight operations and train control.

Visionstream partners with public and private sector rail network owners and operators, major mining companies with dedicated rail networks and construction companies to deliver fully integrated, end-to-end communications solutions for both greenfield and upgraded rail projects.

Future proofing the VicTrack network

VicTrack is a State-owned business delivering transport infrastructure for Victoria, including new stations, station upgrades, bridges and other assets.

VicTrack also owns and manages the telecommunications network that underpins transport across Victoria. Visionstream was engaged

Highlights

- Following VicTracks strict policy in relation to finding FOC and other unknown services across the vast site, our team dug by hand to locate the services before manually digging with machines.
- Highly skilled, experienced personnel ensured the highest quality outcomes were delivered across the project.
- To ensure the safety of our team and those personnel external to the busy site, we developed a detailed traffic management plan. The end result was no incidents on site and no safety breaches in relation to traffic movements.

Customer Profile

Customer:

VicTrack

Time Scale:

August 2014 to May 2015

Location(s):

VIC, Footscray

Industry:

Rail

Services:

Design and Construct

Approximate Value:

\$900,000



Our innovative solutions are key to ensuring the effective and efficient running of rail corridors and networks.

by VicTrack in August 2014 to construct the first of six telecommunications shelters that would hold all civil, electrical and mechanical works/materials.

These shelters are critical for VicTrack as they support all signals that are used to run the train network. A key requirement was to construct the shelters to an R (thermal resistance) rating of 10 - an extremely high rating considering most residential roof ratings are built to an R rating of 3.5. The site is a key communications hub within Victrack's telecommunications network and also operates as the fail-over site for Victrack's data centres. The facility is constructed from concrete with Kingspan cladding to provide the highest levels of thermal performance and fire resistance.

Works at the site include:

- construction of the telecommunications hut including all civil, electrical and mechanical works
- installation of conduits (both power and communications)
- construction of raft slab with poly foam for R rating value
- 140mm core filled blockwork with appropriate R rating
- 180mm suspended slab
- 200mm Kingspan insulation roof
- 100mm Kingspan insulation for the walls.

The VicTrack project involved substantial digging for services as fibre optic cable and other unknown services covered a vast area of the site. We followed VicTrack's strict policy in relation to finding these services which involved hand digging to locate the services before manually digging with machines.

To ensure the highest standards, the team used highly skilled, experienced personnel to undertake the work and monitor at all times. This ensured a high quality, safe outcome for both the project and the client.

Traffic management was also a key focus during the project as there was extremely high access in and out of the busy car park site. The team rolled out a traffic management plan to ensure the safety of personnel external to site. This included using spotters at all times and coordinating the trucks so that those with heavy loads came to site when the car park was less busy. The end result was no

incidents on site and no safety breaches in relation to traffic movements.

Solving your toughest challenge

We partner with you to deliver full turnkey solutions across wireless and critical infrastructure networks. Our national team boasts broad in-house capabilities from planning, acquisition and clearances, to high-end design, construction and installation. We can also provide fully integrated operations and ongoing maintenance services including 24/7 emergency fault response.

Our innovative solutions can help to reduce costs, increase rail traffic, significantly improve system reliability and maintainability and enhance service delivery through a more efficient rail network.

We are supported by an extensive sub-contractor network and when appropriate, we also partner with industry-leading technology providers. Together with you, we can architect a solution that meets your unique project needs.

Contact us

For more information on how Visionstream can support your rail network, please visit www.visionstream.com.au