

# Springfield Rise

Spring Mountain | Ipswich



## Scope of Works

Greater Springfield is the first masterplanned city since Canberra. It's turned South East Queensland's western corridor into one of the nation's fastest growing regions.

To date, Shadforth has completed the following:

- 195 hectares cleared
- 3,955,666m<sup>3</sup> - Cut to fill
- 95,302 m<sup>3</sup> - Topsoil
- 71,741 m<sup>2</sup> - Retaining walls
- 169,282 m<sup>2</sup> - A/C
- 56,631 m<sup>2</sup> - Concrete Paths
- 20,194m - Stormwater drainage
- 30,339m - Sewer
- 25,527m - Watermain

## Project Particulars and Innovations

- **Drone Use** - Pioneered the use of drones to assist in safety, environmental and programming of works on site.
- **iAuditor** - App developed for electronic plant inspections, site inspections, project inductions, daily logs, detecting trends, creating action plans etc. This is art of the long-term strategy to become a paperless site.

## MASTERPLANNED COMMUNITY

### Project Overview

*Client*

**Lendlease**

*Start Date*

**2016**

*Completion Date*

**Ongoing**

*Contract Sum to Date*

**\$166 Million**

### Shadforth Team

*Construction Manager*

**Tony Hooper**

*Project Manager*

**Scott Larson**

**Luke Sutherland**

*Site Supervisors*

**Paul Gee**

**Alex Geuna**

**Niall Sheehan**

**Peter Isaac**

*Safety Manager*

**Grant Ziarno**

*Quality Assurance*

**Jordan Morrall**

**Jamey Hutton**

*Environmental Officer*

**Graeme Gannon**

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### Project Particulars and Innovations

- **Security Cameras** - With remote login available, cameras are used to check onsite activities and environmental conditions after work hours.
- **Fitter Approval to Work System (Maintenance Permit)** - An approval process to safely manage works conducted by Fitters across the site. This eliminates unauthorised works to be carried out onsite for the safety of the Fitter and Operators.
- **Selfie Stick** - Utilised daily to inspect hard to access and potentially unsafe areas. For example, used to inspect under the trunk SEQ watermain with minimal accessibility for workers.
- **Sandwich Board Signs** - Sandwich board signs clearly delineate work areas and supply critical information to personnel before entering an area. Information displayed includes Foreman's name, phone number and UHF channel. It also outlines mandatory PPE requirements required for the work area.
- **Coloured Hard Hats** - Different coloured hard hats easily identify different roles onsite. For example, employees with less than 12 months experience wear an orange hardhat to identify the level of experience of a worker, similarly a blue hardhat is utilised for a supervisor to identify to workers who oversee a works area or who can provide guidance for works if required.
- **Slips, Trips and Falls Training Course** - Implemented a training facility for workers at Springfield Rise to increase awareness of lower risk activities including slips, trips and fall hazards.
- **Tool Carts** - Utilised daily to easily transport tools and material around work areas for personnel working on the ground.
- **Interactive VMP Board** - Shadforth use numerous variable message boards to actively promote safety messaging around site. This enables Shadforth to update safety notices instantly to warn workers of changed working conditions or access points. It is also used to identify plant, haul road closures etc. to all personnel before entering the work site.
- **Weighing of small plant and sticker identification for lifting** - Helps to reduce the risk of manual handling injuries by identifying the weights of all small plant and equipment lifting. These are categorised into 3 classes - 1. One-person lift, 2. Two-person lift and 3. Mechanical lift with colour coded identification stickers for easy identification by workers.
- **Magnetic Lifter** - Used to reduce the risk of hand injuries.
- **Sound Level Exposure Testing** - All plant and machines are tested to ensure safe working zones around the area are identified and tool boxed to educate staff of the required exclusion zones without the need of hearing protection.
- **Tele Belt-Mobile Conveyor** - Used for placement of all drainage filter material for bio basins. This eliminates the need of positrack / loaders placing materials in areas, which eliminates the high risk of plant and people interaction.
- **Work Safe, Home Safe Campaign** - Initiative to remind employees of the importance of safety practices and to remind them to work safe so they are able to get home to family, friends and loved ones.
- **Powercon Jump Start Pack** - Power packs use 12 or 24 volts and automatically recognises battery once connected to LV or plant. This reduces the risk of plant damage and/or battery damage.
- **Yellow Men** - Placed around site to indicate where workers may be on foot.
- **Trench Box Installation and Rescue Training** - In conjunction with industry experts, Shadforth installed training area with lifting equipment and completed live simulations with test dummies.
- **Pipe Trailer** - Constructed long trailer which can be connected to light vehicle or loader and can carry a 12m length of poly to required onsite locations.
- **Water Distribution on Hot Days** - Keep workers on the ground hydrated on hot days
- **Pink "Spotter" Vests** - Utilised for clear identification of spotters to persons operating plant and vehicles
- **Delivery Coordinator** - Ensures safety with visitors onsite. All material deliveries are escorted on and off site.
- **Rock Trenching** - Implementation of large rock trenches to pre-dig pipe areas in rock. This ensures program deliverables are meet for the client by preventing delays from rock encountered in services alignments.