

ROYAL NORTH SHORE HOSPITAL ACUTE SERVICES



PROJECT DETAILS

PROJECT LOCATION:

Reserve Road, St Leonards,
NSW 2065

COMMENCEMENT DATE:

2009

COMPLETION DATE:

November 2012

TYPE OF CONTRACT:

Design and Construct

CONTRACT VALUE:

\$65 million

GROSS FLOOR AREA:

100,000 sqm.

PROJECT MANAGER:

Anthony Greenaway

CONSTRUCTION MANAGER:

Paul Logie

OVERVIEW TRADE PACKAGE

Star Group was selected as the design and construct electrical and communications contractor by Infrashore Consortium.

Star Group's scope of works included:

- General electrical services
- Communications
- Security systems, access control, Staff Duress, Intercom and CCTV monitoring, MATV system
- Nurse, patient and staff emergency Call system
- Specialist lighting and automated lighting controls
- Coordination and client interface at both phases of the project.
- Internal fibre optic and copper backbone cabling, Cat 6A shielded structured cabling system
- Active distributed mobile antenna system
- Relocation of critical Radio Network antenna system
- Decanting and relocation of existing hospital electrical services
- Integration of existing building security and communications system into the new facility
- Wireless Access Points
- HV External and internal network reticulation, Private HW main switchboards, SCADA control systems, consumer mains and LV main switchboards
- Power Factor correction
- Low Voltage sub main reticulation, cable supports and distribution systems

PROJECT CHALLENGES

- HV private substations and coordination of Co gen and diesel generator systems
 - Low Voltage cabling systems to major medical imaging equipment
 - LED medical procedure lighting to operating theatres, master clock systems
 - Medical services panels
 - UPS Systems
 - Incoming communications carrier services
 - Fully monitored emergency lighting control system
 - Emergency & General lighting
 - Specialty lighting, Street and landscape lighting, general power systems, fibre optic and copper external communications services
- Decanting of the site prior to construction
 - Installation of the HV sub-mains and HV equipment
 - Prior to commencement, sections of the existing hospital has to be relocated with minimal down time
 - Divert electrical and communications to ensure that the rest of the hospital campus remained operational
 - Maintain existing generators so that certain critical buildings had backup if a power outage was to occur

PROJECT SPECIFICS

- Refurbish parts of the existing occupied buildings and provide a new 3 level facility for specialist services
- Required a robust infrastructure design to minimise single points of failure
- The project was delivered to the client on budget and ahead of schedule
- This facility is the focal point of this project and the largest portion of the Design and Construct Contract.

