

TECHNICAL SPECIFICATION

1 THE WORKS

1.1 PROJECT DETAILS

Location: GRONG GRONG PUBLIC SCHOOL

Description of the Works: DESIGN & CONSTRUCT COVERED OUTDOOR LEARNING AREA (COLA) & COVERED WALKWAYS.

1.2 GENERAL

Carry out the Works as further described and as shown on the Drawings accompanying the Specification.

1.3 TRADE QUALIFICATIONS

The Contract must only use qualified tradespersons who hold a current trade licence for any trade works carried out under this Contract.

The Principals Representative must approve any exception to this requirement.

1.4 CONTRACT DOCUMENTS

The Contractor must notify the Contact Officer before the tender closing date and time if any discrepancy, error or omission is found in the documents.

1.5 SITE SECURITY AND MAINTENANCE.

The contractor must supply and maintain a temporary site fence with a minimum height of 1.8 metres. This fence is to completely enclose all areas of works on site including stored materials. The fence gate is to be locked at all times. The fencing must be erected and secured in a manner which prevents access to the works area for persons of all ages.

The Contractor must keep the site clean and tidy and dispose of all rubbish and surplus materials promptly. Existing facility waste management reciprocals are not to be used for site waste or debris

2.0 SCOPE OF WORK

- 2.01** Design and construct 15 x 9.5 metres colorbond roofed Covered Outdoor Learning Area (COLA), centred over the existing play equipment (Refer to **Site Plan No1**) as specified in the CRITERIA and Detail No 1.

NOTE There must a minimum distance of 2 mtrs between play equipment and columns. Also the minimum distance between the COLA and front boundary fence is 3.3 mtrs.

Colorbond colours to match Block D, including columns.

Column height to be minimum of 3.3metres, however column height maybe higher as there must be 2.4 metre clearance between the platform to the slippery dip and underside of the roof (Refer to Detail No 6).

NOTE- Care is to be taken with the timber log boarder around the play equipment, during the construction period. The school will reinstate log border around columns of the new COLA, on completion.

Downpipes to be connected to new stormwater lines and discharged into the street gutter. Make good to street kerb, footpath and disturb ground surfaces with materials to match existing. Downpipes are to discharge into grated drains as per Drawing No SD611/3. Stormwater lines on the opposite side of the COLA to the street kerb, are to run underground and not to be slung under the roof of COLA.

- 2.02** Design and construct a 2 metre wide (Between the Columns) colorbond roofed walkway from the existing cover area at the north end of Block “A” to Block “D” (Refer to Site Plan No 2) as specified in the CRITERIA and Detail No 2.

Maximum of three intermediate portal frames between the existing covered area and Block “D”.

Connect guttering to the new rainwater tank behind Block “D” (Refer to item 2.03).

Guttering and roof to be colorbond, columns and frame work galvanised.

Breakup and remove the existing concrete path from the shed (Block “D”) to the quadrangle and one bay of concrete to the quadrangle (refer to Detail No 3). Concrete kerb and gutter to be left in place

As per Drawing SD607/1, excavate, formup, place and lay a new 2 mtr wide concrete path, under the walkway, as per Detail 4, paving to finish at same height as original path. Do not disturb the existing concrete kerb and gutter, in this area the path is to ramp up to the same height as the top of the kerb, with drainage pipe underneath (The slope of the ramped area will be determined by the Supervising Officer). Make good to any disturb timber edging and boarders.

Do not extend width of existing concrete paving across front of Block “D”.

2.03 Rainwater Tank

- Excavate the ground surface level and install 10,000 litre PVC rainwater tank (Equal or similar to TANKMASTA Flexi- fit water tank) behind Block “D” where indicated on Site Plan No 2.

Connect the overflow from the tank to the existing stormwater system.

Tank to be fitted with a hose cock.

Tank colour to be selected by the School Principal.

Paint all PVC pipework and fittings to match the adjoining surfaces on the shed and tank.

Tank and the hose cock are to have signage fitted to each item stating that the “Water Not Suitable For Drinking”.

Tank to be installed in accordance with the manufacturer’s instructions and the Local Water Supply Authority regulations.

- 2.04** Design and construct a colorbond roofed covered area on the north side of Block “B” (Refer to Site Plan No 2) as per the following CRITERIA and Details No 4.

Downpipe to discharge into concrete gutter. Machine cut the concrete kerb and fit bottom of downpipe into kerb and neatly make good to kerb with matching concrete.

Guttering, downpipes and roof to be colorbond, columns and frame work galvanised.

- 2.05** Design and construct a colorbond roofed covered area on the east and south side of Block “B” (Refer to Site Plan No 2) as per the following Criteria and Details No 5.

Downpipe to discharge into concrete gutter. Machine cut the concrete kerb and fit bottom of downpipe into kerb and neatly make good to kerb with matching concrete.

Guttering, downpipes and roof to be colorbond, columns and frame work galvanised.

3.0 CRITERIA

- 3.01** The footings for the columns are to be designed based on the geotech results obtained by the successful tenderer. Holding down bolts are to be fabricated and placed in the concrete footings. Masonry anchors used for fixing following the erection of the structure will not be accepted.

The existing paving is to be neatly cut to enable the footings to be placed. The top of the footings are to finish 100 mm below the finished paving level and will be topped upon completion with matching paving, complete with tooled joints. Where existing ground surface is bitumen allow to make good with the same materials.

Where columns pass through the existing garden edging, reinstate the edging back to match the original edging.

- 3.02** All components shall be galvanised steel, except where mentioned otherwise, and are to be of enclosed, hollow sections. “C” or “Z” shape purlins, knee braces, girts, non proprietary hollow sections or open web trusses **will not be accepted**.

All purlins are to be single piece hollow sections or extruded seamless hollow sections same as or equal to “Lysaght Firmlok.” All purlins are to be installed between portal frames and support beams are not to be fixed to the top of same.

All purlins are to be installed between portal frames and support beams are not to be fixed to the top of same. Knee braces **will not be accepted**.

COLA to consist of a maximum of four portal frames, equally spaced.

NOTE - Deflections in the purlins, particularly the fascia purlins will not be accepted.
The contractor in their engineering design are to ensure this does not occur.

The roof pitch is to be a minimum of 10 degrees.

- 3.03** The Covered Outdoor Learning Area portal frame and all exposed steelwork to the COLA only, other than colorbond surfaces, are to be painted with two-pack epoxy paint or powdercoated (Single pack epoxy paint will not be accepted). Colour to match the existing colorbond shed/shelter (Block D).

- 3.04** Roof Skylights to be from translucent industrial glass fibre reinforced polyester (GRP) fire retardant roof sheeting, matching profile of metal roof sheeting. Allow one full length skylight, centred between the centre portal frames to both sides of the roof pitch. GRP roof sheeting to have a weight requirement of 3660g/m², Colour: Pearl, and have a light transmission level of 3660g/m², - 36% - Compliance for AS1530.3.

- 3.05** Install galvanised steel support mesh laid over roof members. Mesh to be as specified by Australian Standards and fitted off as per Workcover requirements. The Registered Practicing Structural Engineer’s is also to provide certification that the mesh has been installed to the above specified requirements.

Install insulation sarking under the roof cladding. The exposed ends to the sarking are to be finished neatly to form a neat straight edge along the translucent roof skylight sheeting.

- 3.06** The roof cladding shall be a minimum 0.47 BMT corrugated Colorbond – finish colour to match Block “A”.

Structure to include all necessary folded metal capping and flashings as required, to make structure waterproof – finish to matching selected roof colour.

3.07 Gutters to be Colorbond deep profile quad gutter, with finish colour to match Block”D”.

Downpipes to be a minimum 100mm x 75mm diameter and finished colour to match columns.
Secure downpipes to columns with a minimum of three (3) astragals per downpipe.
Provide Work As Executed Drawings

3.08 The structure is to be designed and constructed in accordance with the Registered Practicing Structural Engineer’s certification and specification.

The successful tenderer is to submit workshop drawings within two (2) weeks of the date of the Letter of Acceptance to the Department of Commerce. No construction work will be allowed to start until the workshop drawings are received and are assessed by the Department of Commerce.

All applicable fees, charges and costs for any inspections, regularly authorities, engineer’s details, geotech reports etc are to be paid by the successful contractor. Development Application has been submitted and paid for by others.

4.0 Australian Standards

It is a mandatory requirement of this tender that all deliverables supplied and install under any resultant agreement shall comply with all current relevant Australian Standard(s).

Where Australian Standards do not exist, appropriate International Standards (where available) shall apply.

In addition to compliance with relevant Australian and International standards, deliverables offered should comply with other relevant standards and codes, as appropriate, to ensure supply and installation of products, under the resultant agreement, is fit for the intended purpose. Tenderers should provide details of any other relevant standards and codes that deliverables offered comply with.

All subsequent amendments/revisions to applicable standards and codes and any new standards and codes developed during the period of the agreement, shall apply with immediate effect.

Where this specification requires standards that exceed or are different from those applicable under relevant Australian or International Standards and codes, this specification shall take precedence.

5.0 Certification and Documentation

Tenderers are required to provide written certification, by a practising structural engineer, or where required, other appropriately specialised engineer, registered with the Australian Institute of Engineers, for the design/manufacture and construction/installation of any work undertaken in the resultant agreement.

The Contractor is to submit the completed design, comprising all relevant drawings, specifications, calculations and any other statutory certificates, in accordance with the project requirements, prior to the commencement of work.

The Contractor is solely responsible for ensuring the completed design is fit for purpose and complies with all relevant regulations, codes and standards.

The Principal is not bound to check design plans, or other relevant documentation, for works undertaken in the resultant agreement, for errors, omissions or compliance with the requirements of the Contract.

The Principal is not liable to the Contractor for any claim due to the Principal not detecting or notifying the Contractor of any errors, omissions or non-compliance with the requirements of the Contract, or non-compliance with any relevant regulations, standards and codes, in the completed design.

Where appropriate, the Contractor is to grant to the Customer an irrevocable licence to use the Contractor's design for works undertaken in the resultant agreement.

6 Installation

General

Tenderers are advised the following conditions will apply, as appropriate, for all installation works undertaken in the resultant agreement:-

All equipment should be installed to minimise potential risk of hazards and injury to users.

It will be the Contractor's responsibility to engage a registered, practicing structural engineer to determine the site classification, including wind classification, exposure and any other information, relevant to the design and installation of the deliverable(s). Contractors must ensure all works undertaken in the resultant agreement are in accordance with the requirements of the site.

The Contractor shall be responsible for undertaking all necessary site preparation and survey work required for the installation of deliverable(s).

From and including the date the site is made available to the Contractor, to the date of completion of the works, the Contractor shall be responsible for the care of the site and surrounding area and all things entrusted to the Contractor by the principal for the purpose of the works.

All fillings used in site preparation, construction and site restoration should be free from perishable matter and consistent with existing soil/ground surface unless the specified filling type can be provided from spoil recovered from the excavations.

The Contractor shall be responsible for applying dust and noise control measures for all works undertaken.

All areas outside the works not required to be altered (including the natural ground surfaces of the site), which have been disturbed by the works, shall be restored to their original condition on completion of the works.