Design and Construction Brief

Boardman Reserve Pavilion Extension
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DESIGN & CONSTRUCT SCOPE

Introduction
Council is seeking tenders for the design, documentation and construction of an extension to the Boardman Reserve Pavilion in Sunbury.

The outcome Council is seeking is to provide a new building facility which the local football club can use for club related social functions.

It is proposed that the new building will be located to the north of the existing football clubrooms. The new building footprint is to be in the order of 250 m² plus an undercover viewing area facing the oval.

The new building is to include male/female/accessible toilets and a basic kitchenette. The balance of the area is to be open space.

As funds are tight, construction is to be basic, yet robust. It is envisaged that the building will comprise of a slab on ground, steel frame, precast external walls, and a metal deck roof.

The successful tenderer will be required to engage a design team, confirm the project scope, complete the documents to obtain a building permit and construct the works.

The product selection in this document is indicative. The tenderers are requested to submit alternatives and cost savings to the benefit of the Council.

Generally
This is the specification of work and project scope to be performed and material to be used in the design, construction and completion of:

- Proposed: Extension to Boardman Reserve Pavilion Extension.
- At: Corner of Wilsons Lane and Mitchells Lane, Sunbury 3429, Victoria

Contractors Requirements
The contractor is required to undertake the following:

- Provide a fixed cost for the design & construction of the project (as a tender submission) in the following format:
  - Cost of Design Works – including consultant fees
  - Authority Fees including Building Permit
  - Construction Trade Breakdown
  - Listing of possible cost savings & alternatives
  - Preliminaries – including insurances
  - Builders Margin
Preliminary Construction Programme
- It is anticipated the contract will be awarded at 1 April 2010. The program is to include for a 4 week design period followed by a 12 week construction period.

Upon appointment undertake the following:
- Enter into a design review with the client group to finalise the design
- Engage the consultant group to complete the documents including the following:
  - Architectural drafting
  - Services Engineer (as required)
  - Structural Engineering including the provision of a Geotechnical Investigation
  - Building Surveying
  - Limited Land & Feature Survey (as required)
  - Liaison with supply authorities including Water, Power etc.
- Complete the construction documents suitable to obtain a building permit.
- Preparation of Final Budget & Construction Programme

 Undertake the construction works including the following:
- Attendance at site meetings with the client & superintendent
- Provision of as-built documents
- Provision of warranties

Site Inspection
The contractor is required to undertake a detailed site inspection as a requirement of tendering for the project. Once a tender is submitted, the Contractor is deemed to have completed the required inspections and understands the requirements of the project and the existing conditions on site.

Bank Guarantees
The Contractor shall provide a Bank Guarantee in the form of an approved unconditional undertaking given by an approved financial institution, or other form approved by the Principal. The Guarantee shall be 5% of the agreed Contract Sum.

The Guarantee shall be lodged with the Principal prior to the payment of the first progress claim.

Half of the value of the security shall be returned to the Contractor at the completion of the project – the provision of the Certificate of Occupancy. The remained of the security will be returned at the end of the Defects Liability Period

Defects Liability Period
The defects liability period will be 12 months from the provision of the Certificate of Occupancy.

Town Planning Permit
A town planning permit for these works is not required.
PROJECT REQUIREMENTS

Programme of Works

The work schedule will be prepared by the Contractor for approval by the Superintendent, showing the order of procedure of carrying out the works. The programme of works should clearly set out all tasks to be undertaken during the project, completely outlined in each stage of work.

The programme should be updated to reflect the status of the work complete on a monthly basis and submitted to the superintendent for review.

THE PROGRAMME SHOULD CLEARLY DEFINE CRITICAL PATH TASKS.

Insurance

The Contractor shall provide Building Works Insurance to the value of the Contract Sum.

The Contractor’s Workers’ Compensation Insurance shall be extended to cover each employee engaged on the works. All as required by the Contract.

The Contractor shall extend his Public Risk Policies to cover every claim which may arise during the execution of the works.

The Contractor shall insure the building works against fire for the duration of the contract.

Regulations & Australian Standards

The Contractor shall comply with the requirements and regulations of local and other legally constituted authorities.

Unless otherwise specified all materials and workmanship shall comply with the Australian Standard and the Building Code of Australia 2009.

Sheds

The Contractor shall provide storage sheds for materials, mess rooms for workmen and a site office and shall be responsible for their upkeep, cleanliness and removal on completion of the works.

Hoardings

The Contractor shall provide all necessary street hoardings as required by the local Authorities.

The Contractor shall provide any internal hoardings, screens, safety signage and the like required to undertake the works.

Temporary Fencing

The Contractor shall provide and erect a temporary pipe and wire fence to the perimeter of the works and remove same on completion of the contract.
**Temporary Services**
The Contractor shall arrange for the provision of temporary sanitary, water, electricity and telephone services for the duration of the contract. Council will allow temporary services for use during construction to be extended from the existing pavilion. No charge for usage.

**Dilapidation Survey**
The Contractor shall prepare a dilapidation survey of the area affected by the proposed works.

The dilapidation survey is to include a written description and comprehensive photographic record of existing conditions.

**Scaffolding**
The Contractor shall provide, erect and maintain all necessary scaffolding (fixed and mobile) and remove same on completion of the works.

**Plant & Equipment**
The Contractor shall supply, erect and maintain all tools, plant and equipment necessary to carry out the works.

**Site Safety**
Construction and procedure shall comply with the requirements of the Construction Safety Act (as amended) and the regulations made there under.

**Temporary Crossings**
The Contractor shall, were required, arrange for and provide such temporary footpath crossings required for the execution of the work.

**Foreman & Site Staff**
The Contractor shall appoint a competent Foreman and site staff necessary to complete the works and a representative to control the construction and completion of the works, to the satisfaction of the Superintendent.

**Hours of Work**
All demolition and construction work shall be carried out during the hours stipulated by the local Authorities.

**Substitutions**
Materials or items nominated in the Specification or on the drawings may not be substituted without the authority of the Superintendent. All substitutions shall be made & declared during the design review phase of the works, all prior to the construction works being undertaken.

**Attendance**
The Contractor shall attend upon all nominated Sub-contractors in accordance with general practice and allow the use of scaffolding and temporary services.
Submissions

A. Samples
The Contractor shall provide samples and sample panels for approval by the Superintendent prior to commencing the work for each approved product or material (as agreed). The Contractor shall keep approved samples in good condition on site for reference until Practical Completion.

The Contractor shall only commence items of the works for which those samples have been approved by the Superintendent, the Principal and members of the consultant team as nominated by the Superintendent.

It shall be the Contractor’s responsibility to match approved samples throughout the work.

B. Shop Drawings
Four copies of each set of shop drawings shall be submitted for the following items.
- Structural steel
- Precast concrete panels

The drawings shall be comprehensive indicating all details of fabrication, assembly installation furnishing and fixing of the items concerned.

C. As Built Drawings
The Contractor shall provide within 2 weeks prior to the date of Practical Completion of the Works three sets of prints of the final as-built drawings and an electronic transfer of information in an approved form.

The drawings shall include locations of all installed services, including mechanical, electrical, communications, security, hydraulics, fire services, stormwater, sewer, gas etc.

D. Site Records
The Contractor shall make legible daily records for the site, which shall be made available to the Superintendent upon request. These daily records shall include (but are not necessarily limited to the following):

- labour on the site
- construction plant on the site
- materials on the site
- classification of tradesmen and staff employed on the site
- visitors to the site including those from the Contractor’s head office identifying arrival and departure times
- daily weather record
- inspections and test undertaken
- all issues in relation to the Occupational Health and Safety Guidelines including all accidents or near incidents
- tests and attendance by authorities having jurisdiction over the works
- meetings of contractor’s, consultants and other project stakeholders on site
- industrial disputes
- notifications from any party not directly associated with the work (adjoining properties, tenants, public and the like)
- OHS procedures and records
-
E. Existing Dimensions & Surveyor Confirmation
The Contractor shall engage the services of a licensed surveyor for the setting out of the Works and for the confirmation of the existing dimensions as shown on drawings. The Contractor’s surveyor must provide confirmation to the Superintendent that the set out for the Works are in accordance with the Contract Drawings.

The confirmation of the building setout is to be provided to the Superintendent as verification of compliance with the Contract Documents and does not diminish the Contractor’s responsibility for the accurate setting out of the Works. The Contractor must undertake all other survey work as necessary to meet their responsibilities under the building contract.

F. Operation & Maintenance Manuals
Before the date of Practical Completion, the Contractor must furnish to the Superintendent three copies of operating, service and maintenance instructions or manuals for items of equipment and plant, including supplier’s or manufacturer’s descriptive literature.

Schedules:
- All schedules described in the Specifications.
- Electrical installation/equipment
- Hydraulic installation/equipment

The Contractor shall allow for comprehensive education and training of the nominated Principal’s personnel in the use and operation of all installed plant and systems, including engineering services installation.

Warranties
Before commencement on site of any work subject to warranty, the Contractor shall deliver the relevant warranty.

No payment will be authorised in respect of any such item of work until the required warranty is delivered.

Each warranty is to be provided in respect of any work referred to in sub-clause (a) of this clause will:
- be a warranty for the period designated for that work; and
- be provided in writing duly executed by the supplier of the work, by the Contractor, and where the work is supplied by the supplier to a subcontractor, by that subcontractor.

No warranty shall be construed as or have the effect of relieving the Contractor of any of his contractual obligations under the provisions of this Contract.
Inspections & Certificates

A. Notices / Inspections / Certificates

The Contractor shall give the Superintendent and their consultant adviser’s sufficient notice so that all required tests and inspections can be witnessed. The Contractor shall not carry out any of the required tests or compliance inspections without approval.

In all cases where an inspection is to be made or a test to be undertaken by the Superintendent or their consultants, or the Building Surveyor, or any Authority having jurisdiction over the works shall be a minimum of 48 hours notice.

The Contractor shall manage and coordinate their works to ensure that this notice can be provided in all instances.

Except for site tests and those by the building surveyor and statutory authorities the Contractor shall carry out testing using agencies accredited by the National Association of Testing Authorities (NATA) to test in the relevant field. The Contractor shall cooperate as required with all testing authorities.

The Contractor shall submit reports showing the observations and results of tests and compliance or non-compliance with the requirements of the contract. These reports shall be forwarded to the Superintendent within 2 working days of the tests being undertaken. A copy of the submitted report and test certificates shall be retained on site.

If tests and inspections are to be carried out on parts of the works, do not conceal those parts and do not commence further work on those parts, until the tests and inspections have been satisfactorily completed and compliance substantiated.

B. Building Surveyor

Before commencing construction lodge sets of documents with your selected building surveyor.

The Contractor shall pay all required fees and obtain building certification for the work.

The Contractor shall be responsible for the lodgement of all other required documents and pay all fees and obtain all permits and approvals by other authorities.

Section 33 of the Building Act 1995 requires that the Contractor for the building work for which a permit has been issued under part 3 must notify the relevant building surveyor without delay after completion of each mandatory notification stage of that work. It shall be the Contractor’s responsibility to directly notify the nominated building surveyor.

The mandatory notification stages are:

- public protection works
- prior to placing of footing
- prior to pouring of concrete slabs
- completion of framing
- final inspections

There will be a number of inspections required under each of these mandatory notification stages and the Contractor shall liaise with the nominated building surveyor to manage and coordinate all inspections. This is a responsibility of the Contractor and should be coordinated directly with the building surveyor and does not require notification of the Superintendent.
Upon request from the Superintendent the Contractor shall furnish to the Superintendent copies of all correspondence, inspections and notices between the Contractor and the nominated building surveyor.

In addition the Contractor shall note that the Superintendent and their consultant team shall make periodic inspections of the works to review conformity with the contract documents. They are also required to make inspections of footings, structure, samples, prototypes and the like. This is a separate process of inspection from the statutory inspections required by the building surveyor. The Contractor is advised in the contract documents of the items requiring inspection by the Superintendent and the consultant team and they shall provide notification as previously specified.

D. Essential Services
Essential Services Inspections and tests where applicable are to be carried out during the Defects Liability Period and thereafter for as long as the building is under the control of the Contractor:

Completion
A. Construction Validation
Construction Validation must be performed by the Contractor to ensure that the Works conform to the Contract Documents, relevant Australian Standards and the functional and performance requirements of the Contract.

B. Commissioning
The Contractor must undertake the process of construction validation after all building and series components have been commissioned.

For all commissioning and testing, the Contractor must ensure the performance and operation of all systems and each item of equipment specified. The Contractor must ensure that systems are operating stably and reliably for the Principal’s operation and that the as-built drawings and Operational Manuals have been provided.

C. Defects
Prior to Practical Completion defects inspections of the Works by the Superintendent and the Consultants are required. These inspections are to provide examination and assessment of the Works as applicable for Practical Completion. The Contractor must organise and coordinate defects inspections with the Superintendent and Consultant team and the Superintendent/Consultants will prepare the defects lists.

D. Cleaning
a) During Building Operations
The Contractor must make full provision for the daily removal of all rubbish, debris and redundant materials to ensure the clean and orderly performance of the works.

All materials delivered for incorporation into the works shall be tidy and stacked and stored in a safe manner.

Remove all plant and equipment no longer required from time to time as soon as possible.
b) On Completion
All of the following will be undertaken prior to the Works being occupied by the Principal:

General
Each area on completion shall be thoroughly and carefully cleaned out, including scrubbing, polishing and dusting, as necessary, to leave in perfect order and this includes all surfaces, including walls, floors and ceilings.

Glass, etc. Shall be cleaned by approved expert cleaners and all pint stains, putty smears etc., removed without damage to glass, frames or surrounding surfaces.

Finishes:
Provide careful cleaning off of all paint, cement, plaster, putty smears, etc., from internal and external wall, ceiling and floor finishes, as well as to external surfaces.

External:
Remove all debris from the confines of the entire site. Remove all debris, nails, washers and all objects from the entire roof surfaces and gutters.

Painting, colouring etc:
Shall be handed over in perfect order. Touch-up, repaint, etc., as may be required to remove any stain, marks or blemishes prior to the actual occupation of the rooms concerned by the Proprietor.

Grease:
All windows and doors and oil locks immediately prior to handing over.

Keys:
Hand over keys, all properly labelled, together with a full schedule. Hand over all Master Keys from the supplier direct to the Architects.

Warranties:
Hand over all Warranties required by this Specification and in accordance with Conditions of contract.

Maintenance The Contractor shall provide maintenance procedures for all items of plant and equipment, operational components of the building and all finishes. (Internal and external). The Contractor must provide a comprehensive maintenance report for the principal’s ongoing building maintenance. It must be provided within two weeks of the date of Practical Completion.
MATERIALS REQUIREMENTS & COMPLIANCE WITH STANDARDS

This section relates to the performance requirements for each material, trade or action required to undertake the works. Refer to the end of this section for detail requirements of each room of the building.

Building Code of Australia
The work shall be undertaken in compliance with the Building Code of Australia 2009 Classification 9b and to the satisfaction of the Local Authority.

Australian Standards
The work shall be undertaken in compliance with the relevant Australian Standards noted herein, but not limited to.

Demolition
Standard: To AS 2601

As required.

Earthworks
Standard: To AS 1348.

Shoring and lining systems
Steel shoring and trench lining systems: To AS 4744.1.
Hydraulic shoring and trench lining equipment: To AS 5047.

Stormwater drainage
Standard: To AS/NZS 3500.3.

Pavements & Sub-base
Standard: To AS 1348.

Concrete Pavements
Specification and supply of concrete: To AS 1379.
Materials and construction: To AS 3600.
To locations shown on the drawings.

Structural Timber
Design to AS 1720.1 All to Engineers design.

External timber framing
Framing: To AS 1684 Parts 2, 3 or 4, as appropriate. Design: To AS 1720.1.
Insulation & Sarking Membranes

Responsibilities
General: Provide insulation and sarking membrane systems:
• Complete for their function.
• Conforming to the detail and location drawings.
• Firmly fixed in position.
• Maintain their performance for the life of the building.

Acoustic Insulation (If required)

Responsibilities
General: Provide insulation systems:
• Complete for their function.
• Conforming to the requirements of the BCA for sound insulation.
• Conforming to the detail and location drawings.
• Firmly fixed in position.
• Maintain their performance for the life of the building.

Profiled metal sheet (Roofing)

Responsibilities
Provide a roofing system and associated work which satisfies the product performance requirements.

Sheet
Design and installation: To AS 1562.1.

Safety mesh
Standard: To AS/NZS 4389.

Roof Plumbing
Standard: To AS/NZS 3500.3. General: Provide the flashings, cappings, gutters, rainwater heads, outlets and downpipes necessary to complete the roof system.

Extent & type as indicated on the drawings

Windows & Glazed Doors
Selection and installation: To AS 2047.

Glazing
Glass type and thickness: To AS 1288, where no glass type or thickness is nominated. Materials and installation: To AS 1288. Quality requirements for cut-to-size and processed glass: To AS/NZS 4667. Terminology for work on glass: To AS/NZS 4668. Flashings: To AS/NZS 2904. Aluminium extrusions: To AS/NZS 1866.

Glass types and quality
Standard: To AS/NZS 4667.
**Safety glasses**
Standard: To AS/NZS 2208. Standards Mark: Required. Type: Grade A.
Configurations & Shapes as indicated on the drawings.

**Window Hardware**
Generic items: Submit samples of hardware items offered as meeting the description of items not documented as proprietary items. Submit one sample of each selected item.

**Locks and latches**
Standard: To AS 4145.3.

**Doors**

**Internal & External Grade Steel frames**
Continuously welded from metallic-coated steel sheet sections, including necessary accessories such as buffers, strike plates, spreaders, mortar guards, switch boxes, fixing ties or brackets, and cavity flashing with suitable provision for fixing hardware and electronic security assemblies, and prefinished with a protective coating.

**Solid Core Doors**
Solid core: Solid flush doors as follows: Flush door with blockboard: Core plate of timber strips laid edge to edge, fully bonded to each other and to facings each side of no less than two sheets of timber veneer. Single thickness of moisture resistant general purpose medium density fibreboard.
Location & Types as indicated on the drawings. For tendering purposes all doors to be Solid Core with Metal Frames.

**Door Hardware Responsibilities**
Provide door hardware as indicated on the room detail sheets. Handing: Before supply, verify on site, the correct handing of hardware items. Hardware: Provide hardware of sufficient strength and quality to perform its function, appropriate to the intended conditions of use, suitable for use with associated hardware, and fabricated with fixed parts firmly joined.
Product: Similar to 'Lockwood 3500 Series Cylinder Mortice Locks with Daintree Gidgee Levers No37 typical'.

**Hinges**
Select hinges, type and size suitable for the application. Typical Product: Stainless steel button tipped broad butts, 3 per leaf.

**Internal Timber Frames**

**Wall framing**
Provide gauged timbers in studs, noggings and plates for double faced walls. Timber species or group: Radiata pine. Seasoning: Required. Selected grades to AS/NZS 1748.
Wall Linings

Plasterboard/Moisture Resistant Plasterboard
Standard: To AS/NZS 2588
Locations as indicated on the room detail sheets

Fibre cement
Standard: To AS/NZS 2908.2
Locations as indicated on the room detail sheets

Suspended Ceilings
Suspended ceilings: To AS/NZS 2785.
Product: Install Rondo Aluminium (screw up) suspended ceiling system with all associated members and trim, in accordance with the manufacturer’s specifications. Locations: All new & existing ceilings

Plasterboard cornices
Fixing: Adhesive fix with the supplier’s cornice cement. Pin in place at cornice edges until adhesive sets, remove pins and fill holes.

Cementitious Finishes
General: Provide cementitious toppings as follows: -If floating, without edge curl. -If bonded, without drummy areas. -Without obvious shrinkage cracks.
To all wet areas – suitable to obtain falls to floor wastes

Waterproofing - Wet Areas

Responsibilities
General: Provide wet area waterproofing systems which:
- Are graded to floor wastes to dispose of water without ponding.
- Prevent moisture entering the substrate or adjacent areas

Wet areas
Standard: To AS 3740.

Ceramic Tiling

Responsibilities
General: Provide tiling systems to walls, floors and other substrates as follows and/or to the

Selections:
- Consistent in colour and finish.
- Firmly bonded to substrates for the expected life of the installation.
- Set out with joints accurately aligned in both directions and wall tiling joints level and plumb.
- To direct all water flowing from supply points to drainage outlets without leakage to the substrate or adjacent areas.
**Tiling**
General: Comply with the recommendations of those parts of AS 3958.1 and AS 3958.2.

Locations as indicated on the room detail sheets

**Resilient Finishes**

*Responsibilities*
Install resilient floor coverings to substrates in accordance with Interior Finishes Schedule and fit out drawings
- To remain secured for the warranty life of the covering.
- To remain consistently smooth for the warranty life of the covering.
- To form the pattern required.

Locations as indicated on the room detail sheets

**Carpet**

*Responsibilities*
Lay carpet to backgrounds as follows:
- To remain secured for the warranty life of the carpet.
- To remain consistently smooth for the warranty life of the carpet.
- To form the pattern required.

Locations as indicated on the room detail sheets

**Joinery**

*Responsibilities*
General: Fabricate and install joinery items to backgrounds undamaged, plumb, level, straight and free of distortion.

**Kitchen & Bar Assemblies**
General: To AS/NZS 4386.1.

**Plinths**
Material: Select from the following:
- High moisture resistant medium density fibreboard. Thickness: 18mm. Fabrication: Form up with front and back members and full height cross members at not more than 900 mm centres. Finish: High-pressure decorative laminated sheet.
- Fasteners: Conceal with finish. Installation: Scribe to floor and secure to wall to provide level platform for carcasses.
**Carcasses**
Material: Select from the following:
- Melamine overlaid high moisture resistant medium density fibreboard. Thickness: 18 mm. Joints:
  Select from the following:
- Dowels and glue.
- Screws and glue.
- Adjustable shelves: Support on proprietary pins in holes bored at equal centres vertically.
  Installation: Secure to walls at not more than 600 mm centres.

**Drawer fronts and doors**
- Melamine overlaid high moisture resistant medium density fibreboard. Thickness: 18 mm. Maximum
door size: 2400 mm high, 900 mm wide, 1.5 m on face. Drawer fronts: Rout for drawer bottoms.

**Drawer backs and sides**
Material: PVC film wrapped particleboard. Thickness: 18 mm. Installation: Mitre corners leaving outer
skin of foil intact, finish with butt joints, glue to form carcass and screw to drawer front. Rout for drawer
bottoms.

**Drawer bottoms**

**Drawer and door hardware**
Hinge types: Concealed metal hinges with the following features:
- Adjustable for height, side and depth location of door.
- Self closing action. -Hold open function. . Angle of opening: 180°
- Nickel plated.
Slides: Metal runners and plastic rollers with the following features:
- 60 kg loading capacity.
- Closure retention.
- White thermoset powder coating or nickel plated.

**Laminated benchtops**
Finish: High-pressure decorative laminated sheet. Exposed edges: Extend laminate over shaped nosing,
finishing > 50 mm back on underside. Splay outside corners at 45

**Metalwork**
**Responsibilities**
General: Provide metal fixtures that are: -Undamaged, plumb, level and straight. -Free of surface defects
or distortions.

**Signs**
Safety signs -design and use: To AS 1319. Signs and graphics for disabled access: AS 1428 Parts 1 and 2.
Painting

*Responsibilities*

General: Provide coating systems to substrates as follows:
- Consistent in colour, gloss level, texture and dry film thickness.
- Free of runs, sags, blisters, or other discontinuities.
- Paint systems fully opaque.
- Clear finishes at the level of transparency consistent with the product.
- Fully adhered.
- Resistant to environmental degradation within the manufacturer’s stated life span.

Adhesives

*Adhesives and sealants*

General: Provide adhesives and sealants capable of transmitting imposed loads, sufficient to ensure the rigidity of the assembly, or integrity of the joint and which will not cause discoulouration of finished surfaces. Compatibility: Do not use sealants or adhesives that are incompatible with the products to which they are applied. Movement: Where an adhered or sealed joint may be subject to movement, select a system accredited to accommodate the projected movement under the conditions of service. Refurbishment: Use sealants that can be safely removed and prepared for refurbishment.

Fasteners

Provide fasteners accredited for the particular use, capable of transmitting imposed loads and maintaining the rigidity of the assembly.

Hot dipped galvanised coatings

Coating: Comply with the requirements of AS/NZS 4680.

*Metal finishing*

Methods: To AS 1627. Coating mass/thickness minima: To AS/NZS 4680.

Steel Protective Paint coatings

Surface preparation and coating: Conform to the recommendations of AS/NZS 2312.

Extinguishers

Selection and location: To AS 2444.

Fire blankets

Selection and location: To AS 2444.

Engineering Services

*Electrical Installations*

Allow to install new wiring throughout to suit the new arrangements, fixed and loose equipment. Connect to the existing supply, allow to replace the site main switchboard as necessary.

Install new lighting throughout. Typical lighting to be ceiling recessed 4 x 20W.

Allow to include telephone points as indicated on the room detail sheets.

Allow to install new external security lighting, complete with sensors and time clock.
Hydraulic Services

*Hot & Cold Water*
Allow to install new hot & cold water supply throughout to suit the new arrangements. Connect to the existing site water supply.

Allow to supply new electrical storage units to service the new toilets and kitchenette.

Install plumbing fittings for each area as indicated on the room detail sheets.

*Sanitary & Sewer Drainage*
Install new sanitary & sewer drainage to suit the new arrangements. Connect to the existing site drainage.

Mechanical Services

*Exhaust*
Install exhaust systems to all areas as required by the Australian Standards and Building Code of Australia.
Appendix 1

Room Detail Sheets
## Accessible Toilet

<table>
<thead>
<tr>
<th>Item</th>
<th>Material</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor Substrate</td>
<td>Concrete</td>
<td>Finish to accept vinyl flooring</td>
</tr>
<tr>
<td>Floor</td>
<td>Vinyl</td>
<td>Commercial grade homogeneous vinyl 2mm thick (non-slip)</td>
</tr>
<tr>
<td>Ceiling</td>
<td>Moisture Resistant Plasterboard</td>
<td>Thickness as required to meet acoustic &amp; energy requirements</td>
</tr>
<tr>
<td>Walls</td>
<td>North – timber studwork</td>
<td>9mm thick Villaboard II Paint finish – colour as selected</td>
</tr>
<tr>
<td></td>
<td>South – concrete panel</td>
<td>9mm thick Villaboard II Paint finish – colour as selected</td>
</tr>
<tr>
<td></td>
<td>East – timber studwork</td>
<td>9mm thick Villaboard II Paint finish – colour as selected</td>
</tr>
<tr>
<td></td>
<td>West – timber studwork</td>
<td>9mm thick Villaboard II Paint finish – colour as selected</td>
</tr>
<tr>
<td>Skirtings</td>
<td>Vinyl</td>
<td>150mm high integral cove</td>
</tr>
<tr>
<td>Architraves</td>
<td>MDF</td>
<td>75mm high paint finish – colour as selected</td>
</tr>
<tr>
<td>Doors</td>
<td>External Grade</td>
<td>920mm leaf, handle internal &amp; external disabled snib lock internal. External dor lock external, snib internal.</td>
</tr>
<tr>
<td>Splashback</td>
<td>Tiles/vinyl</td>
<td>As required behind hand basins</td>
</tr>
<tr>
<td>Toilet pans</td>
<td>Proprietary System</td>
<td>Similar to ‘Caroma Care 400’ toilet suite</td>
</tr>
<tr>
<td>Handbasins</td>
<td>Proprietary System</td>
<td>Similar to ‘Caroma Care Intergra’ wash basin</td>
</tr>
<tr>
<td>Tapware</td>
<td>Proprietary System</td>
<td>Similar to ‘Caroma Care Nordic’ mixer tap with extension lever</td>
</tr>
<tr>
<td>Toilet roll holders</td>
<td>Proprietary System</td>
<td>Similar to ‘Metlam ML113’</td>
</tr>
<tr>
<td>Grab rails</td>
<td>Proprietary System</td>
<td>Similar to ‘Handrail Industries Type 136 (137 opposite hand)’ disabled WC rails</td>
</tr>
<tr>
<td>Electric hand dryers</td>
<td>Proprietary System</td>
<td>Similar to ‘JD McDonald Applause APP02/PSS’</td>
</tr>
<tr>
<td>Mirror</td>
<td>Proprietary System</td>
<td>Similar to ‘Metlam ML772’ – installed to the requirements of AS 1428.1</td>
</tr>
<tr>
<td>Coat Hook</td>
<td>Proprietary System</td>
<td>Similar to ‘Metlam ML210’</td>
</tr>
<tr>
<td>Exhaust System</td>
<td>Proprietary System</td>
<td>As required to meet the Australian Standards &amp; BCA 2009</td>
</tr>
<tr>
<td>GPO’s</td>
<td>1 double</td>
<td>As required</td>
</tr>
<tr>
<td>Lights</td>
<td></td>
<td>As required</td>
</tr>
</tbody>
</table>
## Female Toilets

<table>
<thead>
<tr>
<th>Item</th>
<th>Material</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor Substrate</td>
<td>Concrete</td>
<td>Finish to accept vinyl flooring</td>
</tr>
<tr>
<td>Floor</td>
<td>Vinyl</td>
<td>Commercial grade homogeneous vinyl 2mm thick (non-slip)</td>
</tr>
<tr>
<td>Ceiling</td>
<td>Plasterboard</td>
<td>Thickness as required to meet acoustic &amp; energy requirements</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Paint finish – colour as selected</td>
</tr>
<tr>
<td>Walls</td>
<td>North – timber studwork</td>
<td>9mm thick Villaboard II</td>
</tr>
<tr>
<td></td>
<td>South – concrete panel</td>
<td>9mm thick Villaboard II</td>
</tr>
<tr>
<td></td>
<td>East – concrete panel</td>
<td>9mm thick Villaboard II</td>
</tr>
<tr>
<td></td>
<td>West – timber studwork</td>
<td>9mm thick Villaboard II</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Paint finish – colour as selected</td>
</tr>
<tr>
<td>Skirtings</td>
<td>Vinyl</td>
<td>150mm high integral cove</td>
</tr>
<tr>
<td>Architraves</td>
<td>MDF</td>
<td>75mm high paint finish – colour as selected</td>
</tr>
<tr>
<td>Doors</td>
<td>External Grade</td>
<td>870 mm leaf. Handle internal &amp; external. Key lock externa, snib internal (always free)</td>
</tr>
<tr>
<td>Splashback</td>
<td>Tiles/vinyl</td>
<td>As required behind hand basins</td>
</tr>
<tr>
<td>Joinery</td>
<td>Carcas</td>
<td>18mm thick moisture resistant MDF = White melamine</td>
</tr>
<tr>
<td></td>
<td>Face panels</td>
<td>18mm thick moisture resistant MDF – Prefinished laminate board (colour to be selected)</td>
</tr>
<tr>
<td></td>
<td>Benchtops – 900mm high</td>
<td>32mm thick moisture resistant MDF – Prefinished laminate board (colour to be selected)</td>
</tr>
<tr>
<td>Washroom partitions</td>
<td>Proprietary System</td>
<td>Similar to ‘Kyissa K1’ toilet cubicle system</td>
</tr>
<tr>
<td>Toilet pans</td>
<td>Proprietary System</td>
<td>Similar to ‘Caroma Trident’ concealed trap china pan</td>
</tr>
<tr>
<td>Handbasins</td>
<td>Proprietary System</td>
<td>Similar to ‘Caroma Concorde 500’</td>
</tr>
<tr>
<td>Tapware</td>
<td>Proprietary System</td>
<td>Similar to ‘Caroma Acqua’ basin mixer</td>
</tr>
<tr>
<td>Toilet roll holders</td>
<td>Proprietary System</td>
<td>Similar to ‘Metlam ML113’</td>
</tr>
<tr>
<td>Electric hand dryers</td>
<td>Proprietary System</td>
<td>Similar to ‘JD McDonald Applause APP92/PSS’</td>
</tr>
<tr>
<td>Mirror</td>
<td>Min 4mm thick glass</td>
<td>5mm bevelled edge, securely fixed to wall. Width to extent of vanity bench. Height to extend from benchtop to 2100mm AFL</td>
</tr>
<tr>
<td>Coat Hook</td>
<td>Proprietary System</td>
<td>Similar to ‘Metlam ML210’ – one per cubicle</td>
</tr>
<tr>
<td>Exhaust System</td>
<td></td>
<td>As required to met the Australian Standards &amp; BCA 2009</td>
</tr>
<tr>
<td>GPO’s</td>
<td></td>
<td>1 double GPO</td>
</tr>
<tr>
<td>Lights</td>
<td></td>
<td>As required</td>
</tr>
</tbody>
</table>
# Male Toilets

<table>
<thead>
<tr>
<th>Item</th>
<th>Material</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Floor Substrate</strong></td>
<td>Concrete</td>
<td>Finish to accept vinyl flooring</td>
</tr>
<tr>
<td><strong>Floor</strong></td>
<td>Vinyl</td>
<td>Commercial grade homogeneous vinyl 2mm thick (non-slip)</td>
</tr>
<tr>
<td><strong>Ceiling</strong></td>
<td>Moisture Resistant</td>
<td>Thickness as required to meet acoustic &amp; energy requirements</td>
</tr>
<tr>
<td></td>
<td>Plasterboard</td>
<td>Paint finish – colour as selected</td>
</tr>
<tr>
<td><strong>Walls</strong></td>
<td>North – timber studwork</td>
<td>9mm thick Villaboard II</td>
</tr>
<tr>
<td></td>
<td>South – concrete panel</td>
<td>9mm thick Villaboard II</td>
</tr>
<tr>
<td></td>
<td>East – timber studwork</td>
<td>9mm thick Villaboard II</td>
</tr>
<tr>
<td></td>
<td>West – timber studwork</td>
<td>9mm thick Villaboard II</td>
</tr>
<tr>
<td><strong>Skirtings</strong></td>
<td>Vinyl</td>
<td>150mm high integral cove</td>
</tr>
<tr>
<td><strong>Architraves</strong></td>
<td>MDF</td>
<td>75mm high paint finish – colour as selected</td>
</tr>
<tr>
<td><strong>Doors</strong></td>
<td>External Grade</td>
<td>870mm leaf handle internal/external</td>
</tr>
<tr>
<td><strong>Splashback</strong></td>
<td>Tiles/vinyl</td>
<td>As required behind hand basins</td>
</tr>
<tr>
<td><strong>Joinery</strong></td>
<td>Carcas</td>
<td>18mm thick moisture resistant MDF – White melamine</td>
</tr>
<tr>
<td></td>
<td>Face panels</td>
<td>18mm thick moisture resistant MDF – Prefinished laminate board (colour to be selected)</td>
</tr>
<tr>
<td></td>
<td>Benchtops – 900mm high</td>
<td>32mm thick moisture resistant MDF – Prefinished laminate board (colour to be selected)</td>
</tr>
<tr>
<td><strong>Washroom partitions</strong></td>
<td>Proprietary System</td>
<td>Similar to ‘Kyissa K1’ toilet cubicle system</td>
</tr>
<tr>
<td><strong>Toilet pans</strong></td>
<td>Proprietary System</td>
<td>Similar to ‘Caroma Trident’ concealed trap china pan</td>
</tr>
<tr>
<td><strong>Tapware</strong></td>
<td>Proprietary System</td>
<td>Similar to ‘Caroma Care Intergra’ wash basin</td>
</tr>
<tr>
<td><strong>Toilet roll holders</strong></td>
<td>Proprietary System</td>
<td>Similar to ‘Caroma Care Nordic’ mixer tap with extension lever</td>
</tr>
<tr>
<td><strong>Electric hand dryers</strong></td>
<td>Proprietary System</td>
<td>Similar to ‘Metlam ML113’</td>
</tr>
<tr>
<td><strong>Handbasins</strong></td>
<td>Proprietary System</td>
<td>Similar to ‘JD McDonald Applause APP02/PSS’</td>
</tr>
<tr>
<td><strong>Urineal</strong></td>
<td>Proprietary System</td>
<td>Stainless steel trough to configuration as drawn</td>
</tr>
<tr>
<td><strong>Mirror</strong></td>
<td>Proprietary System</td>
<td>5mm bevelled edge, securely fixed to wall. Width to extend from benchtop to 2100mm AFL</td>
</tr>
<tr>
<td><strong>Coat Hook</strong></td>
<td>Proprietary System</td>
<td>Similar to ‘Metlam ML210’ – one per cubicle</td>
</tr>
<tr>
<td><strong>Exhaust System</strong></td>
<td>Proprietary System</td>
<td>As required to met the Australian Standards &amp; BCA 2009</td>
</tr>
<tr>
<td><strong>GPO’s</strong></td>
<td></td>
<td>1 double GPO</td>
</tr>
<tr>
<td><strong>Lights</strong></td>
<td></td>
<td>As required</td>
</tr>
</tbody>
</table>
### Kitchenette

<table>
<thead>
<tr>
<th>Item</th>
<th>Material</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Floor Substrate</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Floor</td>
<td>Concrete</td>
<td>Finish to accept vinyl flooring</td>
</tr>
<tr>
<td>Ceiling</td>
<td>Vinyl</td>
<td>Commercial grade homogeneous vinyl 2mm thick (non-slip)</td>
</tr>
<tr>
<td></td>
<td>Plasterboard</td>
<td>Thickness as required to meet acoustic &amp; energy requirements</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Paint finish – colour as selected</td>
</tr>
<tr>
<td><strong>Walls</strong></td>
<td>North – timber studwork</td>
<td>Paint finish – colour as selected</td>
</tr>
<tr>
<td></td>
<td>South – timber studwork</td>
<td>Paint finish – colour as selected</td>
</tr>
<tr>
<td></td>
<td>East – timber studwork</td>
<td>Paint finish – colour as selected</td>
</tr>
<tr>
<td></td>
<td>West – timber studwork</td>
<td>Paint finish – colour as selected</td>
</tr>
<tr>
<td><strong>Skirtings</strong></td>
<td>Vinyl</td>
<td>150mm high integral cove</td>
</tr>
<tr>
<td><strong>Architraves</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Doors</td>
<td>MDF</td>
<td>75mm high paint finish – colour as selected</td>
</tr>
<tr>
<td>Splashback</td>
<td>External Grade</td>
<td>870mm leaves. Handle internal &amp; external. Key lock external, snib internal (always fixed)</td>
</tr>
<tr>
<td></td>
<td>Tiles/vinyl</td>
<td>Similar to Johnson Tiles 200×200mm standard glazed ceramic tiles (colour to be selected) or vinyl sheet</td>
</tr>
<tr>
<td><strong>Joinery</strong></td>
<td>Carcas</td>
<td>18mm thick moisture resistant MDF – White melamine</td>
</tr>
<tr>
<td></td>
<td>Face panels</td>
<td>18mm thick moisture resistant MDF – Prefinished laminate board (colour to be selected)</td>
</tr>
<tr>
<td></td>
<td>Benchtops – 900mm high</td>
<td>32mm thick moisture resistant MDF – Prefinished laminate board (colour to be selected)</td>
</tr>
<tr>
<td></td>
<td>Doors &amp; drawer fronts</td>
<td>18mm thick moisture resistant MDF – Prefinished laminate board (colour to be selected)</td>
</tr>
<tr>
<td></td>
<td>Handles &amp; pulls</td>
<td>Commercial grade stainless steel D-pulls &amp; knobs</td>
</tr>
<tr>
<td></td>
<td>Joinery Hardware</td>
<td>Commercial grade hinges/drawer slides</td>
</tr>
<tr>
<td></td>
<td>Stove/oven</td>
<td>Allow space in joinery for future upright stove/oven</td>
</tr>
<tr>
<td><strong>Sink</strong></td>
<td>Proprietary System</td>
<td>As required to meet the Australian Standards &amp; BCA 2009</td>
</tr>
<tr>
<td><strong>Tapware</strong></td>
<td>Proprietary System</td>
<td>Similar to ‘Irwell Pin Lever Sink Mixer with Gooseneck outlet’</td>
</tr>
<tr>
<td><strong>Exhaust System</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>GPO’s</strong></td>
<td></td>
<td>4 double GPO</td>
</tr>
<tr>
<td><strong>Lights</strong></td>
<td></td>
<td>As required</td>
</tr>
</tbody>
</table>
## Multi-function Room

<table>
<thead>
<tr>
<th>Item</th>
<th>Material</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor Substrate</td>
<td>Concrete</td>
<td>Finish to accept vinyl flooring or carpet</td>
</tr>
<tr>
<td>Floor Carpet</td>
<td>Carpet (BY OTHERS)</td>
<td></td>
</tr>
<tr>
<td>Ceiling Suspended ceiling</td>
<td>Thickness as required to meet acoustic &amp; energy requirements</td>
<td>Paint finish – colour as selected</td>
</tr>
<tr>
<td>Walls North – concrete panel</td>
<td>Paint finish – colour as selected</td>
<td></td>
</tr>
<tr>
<td>South – concrete panel</td>
<td>Paint finish – colour as selected</td>
<td></td>
</tr>
<tr>
<td>East – concrete panel</td>
<td>Paint finish – colour as selected</td>
<td></td>
</tr>
<tr>
<td>West – timber studwork</td>
<td>Paint finish – colour as selected</td>
<td></td>
</tr>
<tr>
<td>Skirting &amp; Architraves MDF</td>
<td>75mm high paint finished – colour as selected</td>
<td></td>
</tr>
<tr>
<td>Doors External Grade</td>
<td>Double doors. Handle internal &amp; external. Key lock external, snib internal (always free)</td>
<td></td>
</tr>
<tr>
<td>Windows Aluminium</td>
<td>Commercial grade</td>
<td></td>
</tr>
<tr>
<td>MATV</td>
<td>As required</td>
<td></td>
</tr>
<tr>
<td>GPO's</td>
<td>6 double GPO's</td>
<td></td>
</tr>
<tr>
<td>Lights</td>
<td>As required</td>
<td></td>
</tr>
</tbody>
</table>
### Boardman Reserve Pavilion Extension

**Passage**

<table>
<thead>
<tr>
<th>Item</th>
<th>Material</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Floor Substrate</strong></td>
<td>Concrete</td>
<td>Finish to accept vinyl flooring</td>
</tr>
<tr>
<td>Floor</td>
<td>Vinyl</td>
<td>Commercial grade homogeneous vinyl 2mm thick (non-slip)</td>
</tr>
<tr>
<td>Ceiling</td>
<td>Moisture Resistant Plaster</td>
<td>Thickness as required to meet acoustic &amp; energy requirements</td>
</tr>
<tr>
<td></td>
<td>Board</td>
<td>Paint finish – colour as selected</td>
</tr>
<tr>
<td><strong>Walls</strong></td>
<td>North – timber studwork</td>
<td>Paint finish – colour as selected</td>
</tr>
<tr>
<td></td>
<td>South – timber studwork</td>
<td>Paint finish – colour as selected</td>
</tr>
<tr>
<td></td>
<td>East – timber studwork</td>
<td>Paint finish – colour as selected</td>
</tr>
<tr>
<td></td>
<td>Cleaners slop hopper</td>
<td>Porcelain with grate</td>
</tr>
<tr>
<td>Skirtings</td>
<td>Vinyl</td>
<td>150mm high integral cove</td>
</tr>
<tr>
<td>Architraves</td>
<td>MDF</td>
<td>75mm high paint finished – colour as selected</td>
</tr>
<tr>
<td>Doors</td>
<td>External Grade</td>
<td>920mm leaf. Store locking set – handle internal &amp; external.</td>
</tr>
<tr>
<td>GPO’s</td>
<td></td>
<td>2 double GPO’s</td>
</tr>
<tr>
<td>Lights</td>
<td></td>
<td>As required</td>
</tr>
</tbody>
</table>
Appendix 2

Product Selections
Irwell Pin Lever Sink Mixer
with Gooseneck Outlet

Priced to deliver affordable style, the Pin Mixer range is a high quality mixer option from one of the most trusted names in tapware.

Order Number:
8255404A

Legend:
LTH = 0 tap hole
LHB = Left hand beads
ETH = 1 tap hole
RH = Right hand lever
ETH = 3 tap hole
FET = flow control
Trident Connector Toilet Suite

Description
The Trident Smartflush® suite combines modern, economic styling with superior water saving technology. With its adjustable connector piece, Trident is a practical choice for renovations or retrofit installations.

Features
- Adjustable connector style
- Bottom inlet
- S or T type available
- Hygienic, snap-on detachable seat
- Injection moulded cistern, available in white or ivory
- One year warranty
Caravelle 550 Semi Recessed Vanity Basin

Description
An elegantly styled semi recessed basin with smooth rounded contours for easy cleaning. The classic Caravelle is available in two generous sizes and will easily complement a variety of bathroom décors.

Features
- Available in 0, 1, 3 Tapholes
- 550x445mm. Bowl capacity 9 litres
- Supplied without overflow
- Includes flush-fitting white plug and waste
- Vitreous china, white only
- One year warranty
Acqua Basin Mixer

Description
A quality mixer from a trusted Australian brand, Acqua delivers true value. This classic, easy clean design offers built-in water saving technology, a stylish chrome finish and ergonomic handle design. Acqua is an affordable mixer solution for the bathroom and kitchen.

Features
- Ergonomic, easy to grip lever design
- Swivel outlet on sink mixer
- Chrome finish offers easy co-ordination and durability
- Hard wearing, low maintenance solid brass construction
- Designed to save water, WELS 5 star rated
Concorde Vanity Basin

Description
Universal, easy clean basin of compact size suitable for general purpose applications. The Concorde 560 basin has two soap holders and will accommodate a range of tapware configurations.

Features:
- Available with 0, 1 or 3 tap holes
- 500x425mm, Bowl capacity 7 litres
- Supplied without overflow
- Includes flush-fitting coloured plug and waste
- Vitreous china, white or ivory
- One year warranty
K1 Toilet Cubicle

Are you looking for simple and reliable toilet partitions for your business?

The Kyissa K1 toilet partitions are ideal for businesses that want to maintain respectable bathroom facilities without breaking their building budget.

Benefits of K1 toilet partitions

- Simple and No-fuss: Washroom partitions are easy to clean and maintain
- Durable and Sturdy: Walls and fittings withstand wear and tear
- Easy to Assemble: Come with full instructions for quick installation.

Features of K1 toilet partitions

- Panels are available unfinished, painted or pre-decorated
- Toilet partitions are available in 7 variations, allowing for thicker paneling and decorative coatings, such as Laminex or Solid Grade Phenolic Core
- Aluminium frames and fittings can be powder coated in your chosen colour
- Available in standard dimensions or made to order.

View K1 Specifications

Would you like to see how K1 washroom partitions can work for your company washrooms?

Contact us on (03) 9338 7400 or fill in the form below and a Kyissa consultant will contact you shortly.

Name:*  
Business:  
Email:*  
Phone:  

Send Enquiry

* Required fields. Your privacy is assured.
STAINLESS STEEL MIRRORS

ML770 | STAINLESS STEEL CHANNEL FRAME MIRROR WITH SHELF

ML770/ML771
Fabricated of type 304 stainless steel with a #4 satin finish. 0.9mm for frame and 1.2mm for shelf. All shelf edges return and hemmed for safety, shelf welded to face frame with 127mm (5") projection from mirror. Back plate and wall brackets fabricated of 1.0mm galvanized steel. Mirror is 8mm thick plate glass. Unit secured with wall brackets by theft-resistant screws.

Standard Sizes
<table>
<thead>
<tr>
<th>Width x Height</th>
<th>ML770</th>
<th>ML771</th>
</tr>
</thead>
<tbody>
<tr>
<td>18&quot;x24&quot; (46x61 cm)</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>18&quot;x30&quot; (46x76 cm)</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>18&quot;x36&quot; (46x91 cm)</td>
<td>x</td>
<td>x</td>
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<tr>
<td>24&quot;x30&quot; (61x76 cm)</td>
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<tr>
<td>24&quot;x36&quot; (61x91 cm)</td>
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Other sizes and Safety Glass Mirrors to order only

ML771 | STAINLESS STEEL ANGLE FRAME MIRROR

ML772 | STAINLESS STEEL TILT MIRROR

Same as ML770, but without shelf.

FULLY COMPLIANT WITH BUILDING CODE AUSTRALIA AS1428

Fixed tilt frame satin stainless steel finish.
Theft resistant mounting bracket. Frame tapers from 105mm projection at top to 30mm at base.
Constructed from 304 grade stainless steel.
No visible joins/welds.

OVERALL SIZE 450mm-W x 950mm-H
GRABRAILS

Standard Grab Rails
Modular Grab Rails
WC Grab Rail Combinations
Disabled & Assisted
Ambulant WC Grab Rails
Assisted Baths
Shower Grab Rails
Disabled & Assisted

HOME ASSIST Modular System
BANNISTER RAILS
SHOWERS & ACCESSORIES
BATHROOM ACCESSORIES
SHOWER SEATS
SIGNS
DOOR WEDGES

Disabled WC Grab Rail Combinations

Item No.       Description
Type 112 (as shown) Exposed Fix
Type 133 (opposite hand) Concealed Fix
Vandal Proof Fix

Complies with AS1428

Terms & Conditions
HRI Product List

Copyright ©2008 Hard Rail Industries. All rights reserved - Grab Rails | Bannister Rails | Showers & Accessories | Bathroom Accessories | Signs.
TOILET DISPENSERS

**ML800**  SURFACE MOUNTED DUAL ROLL TOILET PAPER DISPENSER S/S

Holds two rolls up to 5-1/4" (132mm) diameter or 1800 sheets toilet paper rolls. Top roll automatically drops in place after bottom roll is used up. Type 304 stainless steel cabinet and mechanism.

**SIZE** 132mm-W x 305mm-H x 165mm-D (6"x12"x6-1/2")

**ML801**  RECESSED DUAL ROLL TOILET PAPER DISPENSER S/S

Holds two rolls up to 5-1/4" (132mm) diameter or 1800 sheets toilet paper rolls. Top roll automatically drops in place after bottom roll is used up. Provided with range for recess mounting. OVERALL SIZE 200mm-W X 35mm-H X 165mm-D

WALL OPENING 159mm-W X 311mm-H X 82mm-D

6 1/4" X 12 1/4" X 3 3/8" SEPARATE PACKING Frame & Cabinet

**ML820**  TOILET PAPER HOLDER FOR ONE ROLL

Enamel Baked Aluminium/Restricted Feed

**OVERALL SIZE** 167mm-W X 43mm-H X 102mm-D

**ML825**  TOILET PAPER HOLDER FOR TWO ROLLS

Enamel Baked Aluminium/Restricted Feed

**OVERALL SIZE** 330mm-W X 45mm-H X 102mm-D

**ML4094**  WHITE & S/S INTERFOLD TOILET PAPER DISPENSER

**ML837**  TOILET PAPER HOLDER FOR ONE ROLL

**ML838**  TOILET PAPER HOLDER FOR TWO ROLLS

Available in white powdercoat steel finish or 304 grade stainless steel. Capacity 2 standard size interfold packets.

**SIZE** 143mm-W X 240mm-H X 43mm-D

**ML113**  TOILET ROLL HOLDER S/S

Chrome-plated steel

**OVERALL SIZE** 140mm-W X 60mm-H X 109mm-D

**ML513 TOILET ROLL HOLDER (Aluminium)**

**ML838**  TOILET PAPER HOLDER FOR TWO ROLLS

Chrome-plated steel

**OVERALL SIZE** 263mm-W X 60mm-H X 109mm-D

Metlam Australia Pty Ltd reserves the right to, and does from time to time, make changes and improvements in design and dimensions.
The photographs & line drawings of the products in this catalogue are representational only.
Nordic Care Basin Mixer

Description

All Caroma Care taps and mixers feature a ceramic disc cartridge for smooth, easy activation to assist those with weaker hand mobility as well as providing low maintenance, drip free operation. Caroma Care mixers include an extended lever to provide easy reach, whilst Caroma Care taps include large handles offering a smooth
Integra Care Wall Basin

Description
Caroma Care Basins offer a diverse range of styles, featuring semi-recessed and wall basin types. Caroma Care Basins meet the needs of people with disabilities by ensuring adequate space below the basin for wheelchair access and easy reach to tap mixer or lever.
Care 400 Toilet Suite

Description
A premium connector suite with classic smooth style. Features Sovereign vitreous china care suite with raised flush buttons and Trident concealed pan installation designed to provide a raised seat height of between 460-480mm for persons with disabilities. The pan features a concealed trap which facilitates easy cleaning. The versatility of the Caroma Care Trident pan makes it ideal for use by both the ambulant persons with disabilities and wheelchair users including wheeled commode chairs.

Features
- Trident Concealed Trap Care Pan - S Trap
- Sovereign 2000 bottom inlet vitreous china Care cistern
- Includes Convelle single or double line
Appendix 3

Drawings