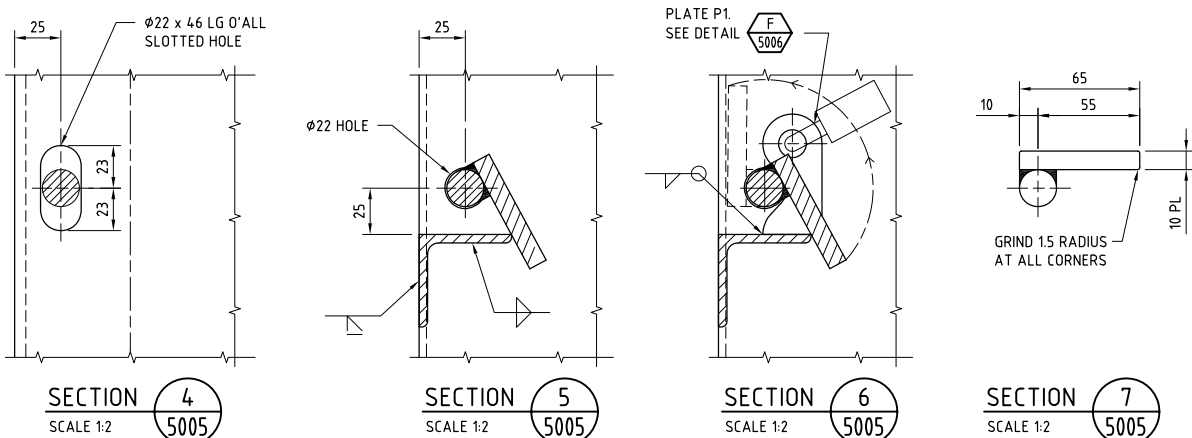


ELEVATION OF PLATE P1

ELEVATION OF PLATE P2

DETAIL SCALE 1:1



SECTION 4 SCALE 1:2

SECTION 5 SCALE 1:2

SECTION 6 SCALE 1:2

SECTION 7 SCALE 1:2

NOTES

MISCELLANEOUS

- M1. ALL WELDS SHALL BE 6 CONTINUOUS FILLET U.N.O. IN ACCORDANCE WITH AS 1554 PART 1.
- M2. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 & AS 4100.
- M3. CONCRETE QUALITY (TO AS3972):
CLASS GRADE N25
MAXIMUM AGGREGATE SIZE 10 mm
- M4. WHERE ELECTRO-MECHANICAL STRIKE MECHANISMS ARE INCORPORATED INTO THE DESIGN, RELEASE MECHANISMS SHALL BE SHROUDED TO PREVENT TAMPERING.

THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING No. DTC/5003, 5004 & 5005

NOTES

PALES

- P1. PALES SHALL BE MANUFACTURED TO COMPLY WITH BS 1722 PART 12. THE MINIMUM LENGTH OF PALES SHALL BE EQUIVALENT TO THE HEIGHT OF THE FENCE LESS 50mm.
- P2. PALE TOPS SHALL BE POINTED, UNLESS DIRECTED OTHERWISE BY THE PRINCIPAL.
- P3. PALES SHALL BE FABRICATED FROM 100mm x 3mm THICK HA1S FORMING STEEL (TO AS 1594) & BE COLD ROLL FORMED TO "W" SECTION, AS DIRECTED BY THE PRINCIPAL, WITH A FINISHED WIDTH OF 70mm. THE FINISHED TOLERANCE OF THE PALES SHALL BE TO AS 1365.
- P4. PALES SHALL BE FIXED TO THE OUTSIDE OF RAILS USING M10 GALVANISED STEEL CUP HEAD BOLTS TO AS/NZS 1390 & GALVANISED TAMPER PROOF SHEAR NUTS.
- P5. PALES SHALL BE SPACED AT 155mm CENTRE TO CENTRE.

FENCE (& GATE) POSTS

- G1. POSTS SHALL BE SUPPLIED CUT TO LENGTH (INCLUDING THE APPROPRIATE FOOTING DEPTH) WITH ALL THE SLOTS & HOLES REQUIRED FOR THE ATTACHMENT OF FIXTURES & FITTINGS.
- G2. FENCE POSTS SHALL BE INSTALLED AT A MAXIMUM OF 2750mm CENTRE TO CENTRE.
- G3. FENCE POSTS SHALL BE MANUFACTURED WITH AS 3679 GRADE 250 & BE HOT DIP GALVANISED AFTER FABRICATION TO AS 4680.
- G4. FENCE POSTS SHALL BE CROPPED & THE WEB SLOTTED WITH 42mm x 9mm SLOTS TO RECEIVE RAIL JOINING PLATES.
- G5. GATE POSTS SHALL BE MANUFACTURED WITH AS 1163 GRADE C350L0 & BE HOT DIP GALVANISED AFTER FABRICATION TO AS 4680.

RAILS

- R1. RAILS SHALL BE MANUFACTURED WITH AS 3679 GRADE 250 & BE HOT DIP GALVANISED AFTER FABRICATION TO AS 4680.
- R2. RAILS SHALL BE SUPPLIED CUT TO LENGTH, WITH ALL THE SLOTS & HOLES REQUIRED FOR THE ATTACHMENT OF FIXTURES, FITTINGS & PALES.
- R3. RAILS SHALL BE FIXED TO RAIL JOINING PLATES USING M12 GALVANISED STEEL CUP HEAD BOLTS TO AS/NZS 1390 & GALVANISED TAMPER PROOF SHEAR NUTS.

RAIL JOINING PLATES

- J1. JOINING PLATES SHALL BE MANUFACTURED WITH AS 3679 GRADE 250 & BE HOT DIP GALVANISED AFTER FABRICATION TO AS 4680.
- J2. JOINING PLATES SHALL BE SQUARE EDGE FLAT BAR 40mm x 8mm THICK, WITH 14mm SLOTS TO ACCOMMODATE RAIL BOLTS..

GATES & LOCKING ARRANGEMENTS

- G1. SINGLE LEAF GATES ARE TO OPEN OUTWARDS, SUBJECT TO NO OPERATIONAL OR SAFETY ISSUES.
- G2. ALL JOINTS ARE TO BE FULLY WELDED JOINTS (INTERMITTENT WELDING IS NOT PERMITTED). TWO COATS OF APPROVED ZINC RICH PAINT SHALL BE APPLIED IN ACCORDANCE WITH AS 4680 TO ANY SURFACES DAMAGED DURING WELDING.
- G3. SINGLE LEAF GATES SHALL BE FITTED WITH TWO SECURITY BOLT-ON BEARING HINGES, FITTED WITH GREASE NIPPLES ('DOWNEE' MODEL T2200 OR EQUIVALENT). HINGES SHALL BE CAPABLE OF TAKING THE FULL GATE LOAD PLUS A SUPERIMPOSED LOAD EQUAL TO 100 kg, APPLIED AT THE NOSE OF THE GATE, WITHOUT ANY DEFLECTION IN ANY POSITION DETRIMENTAL TO THE OPERATION OF THE GATE.
- G4. SINGLE LEAF GATES SHALL BE FITTED WITH A SLIDING BOLT. THE BOLT IS TO ENGAGE INTO A GATEPOST OR ADJACENT STRUCTURE. THE SLIDING BOLT SHALL BE SECURED USING A PADLOCK KEYED TO SYDNEY WATER'S KEYING SYSTEM. THE PADLOCK SHALL BE ENDORSED 'INTRUDER RESISTANT AREA' APPLICATION, AS LISTED IN THE COMMONWEALTH OF AUSTRALIA SECURITY EQUIPMENT CATALOGUE.
- G5. DOUBLE LEAF GATES SHALL BE FITTED WITH A TWO PART LOCKING MECHANISM. THIS INCLUDES A SLIDING BOLT WHICH ENGAGES INTO THE GATEFRAME & A PAIR OF TOWER BOLTS WHICH ENGAGE IN FERRULES FIXED INTO THE ROADWAY. THE DESIGN & CONSTRUCTION OF THE LOCKING ARRANGEMENT SHALL BE SUCH THAT IT SHALL NOT BE POSSIBLE TO OPERATE THE TOWER BOLTS UNLESS THE PADLOCK IS UNLOCKED . THE PADLOCK SHALL BE KEYED TO SYDNEY WATER'S KEYING SYSTEM. THE PADLOCK SHALL BE ENDORSED 'INTRUDER RESISTANT AREA' APPLICATION, AS LISTED IN THE COMMONWEALTH OF AUSTRALIA SECURITY EQUIPMENT CATALOGUE.

POWDER COATING

- C1. ALL FENCE COMPONENTS SHALL BE POWDER COATED AFTER FABRICATION BY:
HOT ALKALI DEGREASE & CLEAN.
CLEAN WATER RINSE (TWICE).
HOT ACIDULATED FINAL RINSE.
POWDER COAT TO 70 +/- 10 MICRONS.
BAKE 10 MINUTES AT 200°C METAL TEMPERATURE.

TOUCH UP

- T1. GALVANISED FINISH:
FOLLOWING INSTALLATION OF ALL FASTENERS, BREAK OFF POINTS SHOULD BE TREATED WITH A GENEROUS COATING OF ZINC RICH COLD GALVANISING PAINT.
- T2. POWDER COAT FINISH:
AS ABOVE, WITH THE ADDITION OF A MATCHING COLOUR TOUCH UP PAINT.

Sydney WATER

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APPROVED

P. GILLMAN
MANAGER - E & ES

ENGINEERING & ENVIRONMENTAL SERVICES

A
LETTER

ORIGINAL ISSUE

DETAILS OF ISSUE / AMENDMENT

PJG

APP'D

01.03.13

DATE

DEEMED TO COMPLY DRAWINGS

INTRUDER RESISTANT PERIMETER BARRIER TYPE 2

PALISADE SECURITY FENCE & GATES

SHEET 4 OF 4

DTC

5006

ISSUE

A

DATE

01.03.13