

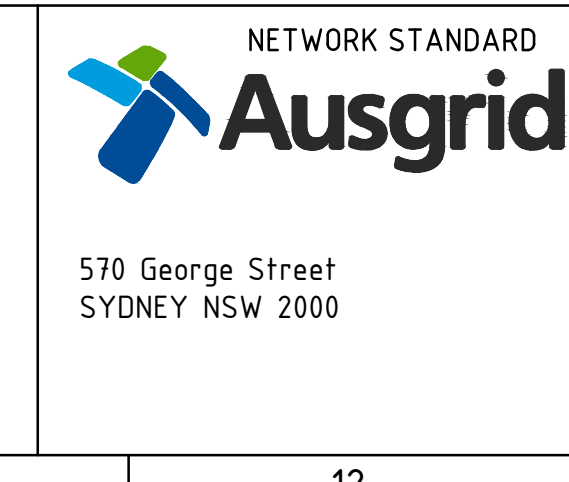
| ITEM | DESCRIPTION | REF DRG |
|------|---|----------|
| 1 | UNISTRUT MOUNTED COMBINED MULTIPLE CONDUIT SUPPORT / PULLEY MOUNTING BRACKET | B1-16500 |
| 2 | CORNER PULLEY MOUNTING BRACKET | B1-16500 |
| 3 | MULTIPLE CONDUIT SPACER SUPPORT BRACKET | B1-16500 |
| 4 | WALL MOUNTED PULLEY MOUNTING BRACKET | B1-16500 |
| 5 | Ø 16 x 0.6 STAINLESS STEEL TUBE | B1-16500 |
| 6 | Ø 20 x 0.6 STAINLESS STEEL TUBE (HOUSING FOR PULL-OUT HANDLE FOOTPATH ACCESS) | B1-16500 |
| 7 | UNISTRUT MOUNTED CORNER PULLEY MOUNTING BRACKET | B1-16500 |
| 8 | PULLOUT HANDLE FOR HV SWITCH TRIPWIRE | B1-16500 |
| 9 | SINGLE CONDUIT SUPPORT BRACKET | B1-16500 |
| 10 | MULTIPLE CONDUIT SUPPORT BRACKET | B1-16500 |
| 11 | SINGLE WALL MOUNTED CONDUIT SUPPORT BRACKET | B1-16500 |
| 12 | MULTI-CABLE JOINING LINK | B1-16500 |
| 13 | P1377 'U' SHAPE FITTING HOT DIPPED GALV. (TO JOIN P1000 UNISTRUT) | B1-18894 |
| 14 | SUPPORT BRACKET HOT DIPPED GALV. | B1-16500 |
| 15 | DOORWAY ACCESS (HORIZONTALLY MTD) PULLOUT HANDLE MOUNTING BRACKET WITH PULLEY | B1-16500 |
| 16 | OPERATING CRANK WHEEL | A2-10578 |
| 17 | Ø16 SPRING STEEL CLIP | B1-18894 |
| 18 | Ø20 COPPER SADDLE | B1-18894 |
| 19 | WORM DRIVE HOSE CLAMP SS FOR Ø 16 | B1-18894 |
| 20 | M12 SS MASONRY ANCHOR COMES WITH NUT & WASHER | B1-18894 |
| 21 | TRIPWIRE Ø4 FLEXIBLE SS WIRE ROPE 6/19 CONSTRUCTION | B1-18894 |
| 22 | WALL SPACER (LENGTH AS REQUIRED) Ø 16 x 1.6 SS TUBE | B1-18894 |
| 23 | Ø16 COPPER SADDLE | B1-18894 |
| 24 | RAMSET OR EQUIV. 5mm EASY DRIVE NYLON MASONRY ANCHOR WITH SS NAIL | B1-18894 |
| 25 | Ø4 SS SNAP HOOK | B1-18894 |
| 26 | SWAGING WITH FERRULES OR 2 OFF x 3mm WIRE ROPE GRIPS | B1-18894 |
| 27 | P1010 M12 UNISTRUT NUT ZP | B1-18894 |
| 28 | M12 x 25 HEX HD GALV. SET SCREW | B1-18894 |
| 29 | M12 GALV. FLAT WASHER | B1-18894 |
| 30 | P1008 M10 UNISTRUT NUT ZP | B1-18894 |
| 31 | M10 x 25 HEX HD SS SET SCREW | B1-18894 |
| 32 | M10 SS FLAT WASHER | B1-18894 |
| 33 | P1000 UNISTRUT HOT DIPPED GALV. | B1-18894 |
| 34 | P1325 UNISTRUT 90° ANGLE HOT DIPPED GALV. | B1-18894 |
| 35 | M12 HEX HD NUT GALV. | B1-18894 |
| 36 | PULLOUT HANDLE HV SWITCH NUMBER TRIP INDICATION LABEL (SEE NOTE 6.) | B1-16500 |
| 37 | PULLOUT HANDLE DISTANCE LABEL (eg DANGER 4 METRES) | B1-16500 |
| 38 | PULLEY RONSTAN OR EQUIVALENT SINGLE VERTICAL TURNING BLOCK WITH BLACK SS CHECKS | B1-16500 |
| 39 | PULLEY RONSTAN OR EQUIVALENT SINGLE TURNING BLOCK WITH FLAT BASE BLACK SS | B1-16500 |
| 40 | M5 x 15 BRASS CH HD SET SCREW | B1-16500 |
| 41 | M5 BRASS HEX HD NUT | B1-16500 |
| 42 | M5 BRASS FLAT WASHER | B1-16500 |
| 43 | FLOAT SWITCH BRACKET HOT DIP GALV. | B1-16500 |

| REFERENCE DRAWINGS | |
|---|----------|
| SYDNEY CBD SUBSTATIONS ISOLATING SWITCH OPERATING WHEEL FOR PULL-OUT GEAR DETAILS | A2-10578 |
| SYDNEY CBD SUBSTATIONS EMERGENCY PULL-OUT GEAR OPERATING EQUIPMENT DETAILS | B1-16500 |

- NOTES**
- PULLOUT HANDLES ARE LOCATED AT SUBSTATIONS OR CONTROL POINT EXTERNAL ENTRY POINTS FOR EMERGENCY SWITCH ISOLATION. HANDLES ARE TO BE MOUNTED ON THE WALL BEHIND A LADDER FOR HATCHCOVER ENTRY OR APPROX. 1.3 METRES ABOVE FLOOR FOR DOOR ENTRY ARRANGEMENTS. MULTIPLE PULLOUT HANDLES ARE REQUIRED WHEN THE ENTRANCE CHAMBER SERVICES MULTIPLE SUBSTATIONS AND/OR CONTROL POINTS. HANDLES ARE TO BE CLEARLY LABELED. REF NOTE 6 & DRG B1-16500.
 - TRIPWIRE (ITEM 21) TO BE SECURED AT EACH END USING SS BULLDOG CLAMPS OR SUITABLY SWAGED WITH FERRULES (ITEM 26). SEE TRIPWIRE TERMINATION DETAILS. BARE ENDS OF WIRE TO BE PROTECTED WITH PLASTIC INSULATION TAPE OR EQUIVALENT.
 - ALL ITEMS TO BE POSITIONED SO AS TO ALLOW UNRESTRICTED MOVEMENT OF THE TRIPWIRE ASSEMBLY CONNECTED FROM PULLOUT HANDLE TO THE SWITCH ISOLATING HANDLE. DISTANCE BETWEEN ITEMS 12, 25 & 26 LINKAGES AND ITEMS 5 & 9 TO BE GREATER THAN THE SWITCH HANDLE MOVEMENT REQUIRED TO TRIP THE SWITCHES.
 - SUPPORT BRACKET (ITEM 14) MAY BE CEILING MOUNTED, WALL MOUNTED OR MOUNTED UNDER BEAMS AND SPACED AT APPROXIMATELY 1800mm CENTRES. THE BRACKETS TO BE POSITIONED TO ENSURE ALIGNMENT OF THE PULLEYS DIRECTLY ABOVE THE SWITCH HANDLES. (SEE NOTE 3)
 - THE LAYOUT SHOWN IS TYPICAL ONLY. EACH SITE IS TO BE TREATED INDIVIDUALLY & THE MOST EFFECTIVE LAYOUT USED TO ENSURE EASE OF OPERATION OF THE PULLOUT GEAR.
 - LABEL (ITEM 37) IS FIXED TO THE HANDLE OF EACH PULL-OUT GEAR TO SHOW THE DISTANCE THE HANDLE SHOULD BE PULLED TO ISOLATE THE SWITCHGEAR. eg 'DANGER 4 METRES' LABEL (ITEM 36) IS TO BE FIXED TO THE WALL ADJACENT TO THE HANDLE TO INDICATE THE SUBSTATION OR CONTROL POINT SWITCHGEAR WHICH WILL BE ISOLATED. THE LABELS ARE TO BE NOMINAL SIZE 100mm x 50mm, ENGRAVED TRAFFOLYTE, OR LAMINATED ADHESIVE BACKED TAPE ON RED PVC SHEET OF MINIMUM THICKNESS 1.5mm. LETTERS ARE TO BE WHITE ON RED BACKGROUND. MINIMUM LETTER HEIGHT IS TO BE 15mm. LABELS ARE TO BE IN ACCORDANCE WITH NETWORK STANDARD NS-158 PART 4.6 (TABLE OF LABELLING MATERIALS, FIXING AND POSITIONING).
 - TRIPWIRE FROM PULLOUT HANDLE SIDE TO OPERATOR CRANK WHEEL (ITEM 16) TO BE WOUND AROUND LARGE DIAMETER PULLEY 4 TIMES BEFORE BEING SECURED. TRIPWIRE FROM OPERATOR CRANK WHEEL TO ISOLATING SWITCH SIDE TO BE WOUND AROUND SMALL DIAMETER PULLEY 2 TIMES BEFORE BEING SECURED. DURING OPERATION OF THE PULLOUT HANDLE, THE TRIPWIRE IS WOUND OFF THE CRANK WHEEL LARGE DIA PULLEY AND WOUND ONTO THE CRANK WHEEL SMALL DIA PULLEY.

CAD DRAWING
DO NOT MANUALLY AMEND
A. MENDMENTS
2. DRAWING REDRAWN ON CAD & ITEMS RE-ARRANGED TO SUIT NEW STANDARDS
10-07-03 P.H.
C. SANDY
3. FLOAT SWITCH MOUNTING BRACKET (ITEM 4.3) ADDED. WAS MARK 15 ON ANCHORMENT No.1.
23-09-2003 P.H.
4. NEW AUSGRID BORDER & LOGO ADDED.
10-09-2013 T.L.
R. LAALAA
CHECKED

| SCALE | 1:5 |
|----------------|-----------------|
| DESIGNED | - |
| DRAWN | KYM STEPHENSON |
| CHECKED | GEORGE ANTONIOU |
| APPROVED | PHIL HUDSON |
| DATE | 10.07.2003 |
| PRJTRK No. | - |
| PROJECT NUMBER | ES99-15-4-14 |



| SYDNEY CBD TYPE SUBSTATIONS & CONTROL POINTS EMERGENCY PULL-OUT GEAR OPERATING EQUIPMENT TYPICAL ARRANGEMENT | | | |
|--|-------|-------|----|
| DRAWING No | 18894 | SHEET | 1 |
| AMT | 4 | SIZE | B1 |

