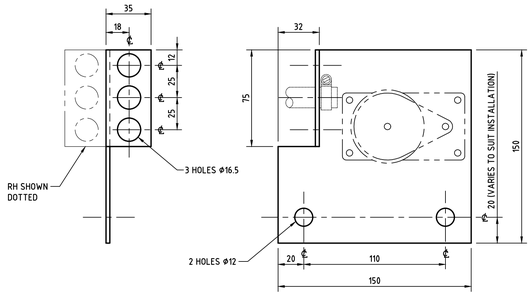
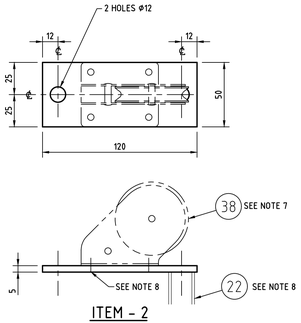
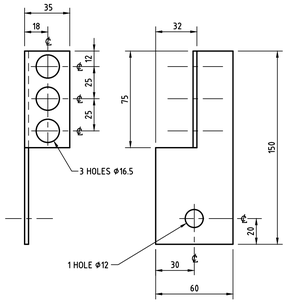


ITEM - 1

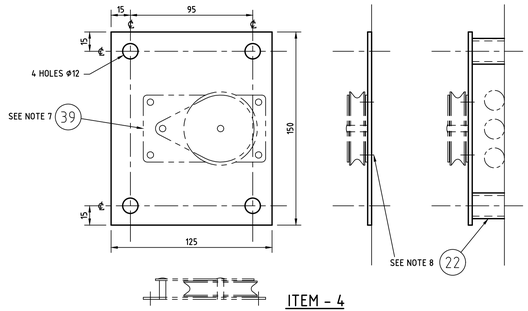
PULLEY LOCATION IS DETERMINED BY THE LOCATION OF THE TRIPWIRE ENTRY TUBING. LEFT OR RIGHT HAND BRACKETS AVAILABLE DEPENDING ON DIRECTION OF BENT LUG. (LH SHOWN.) SEE DRAWING B1-18894 FOR SAMPLE MOUNTING POSITION.



ITEM - 2

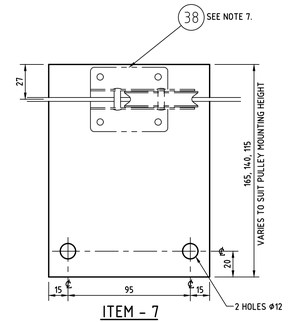


ITEM - 3



ITEM - 4

NOTE - LOCATION & TYPE OF PULLEY SHOWN VARIES TO SUIT INDIVIDUAL APPLICATIONS.



ITEM - 7

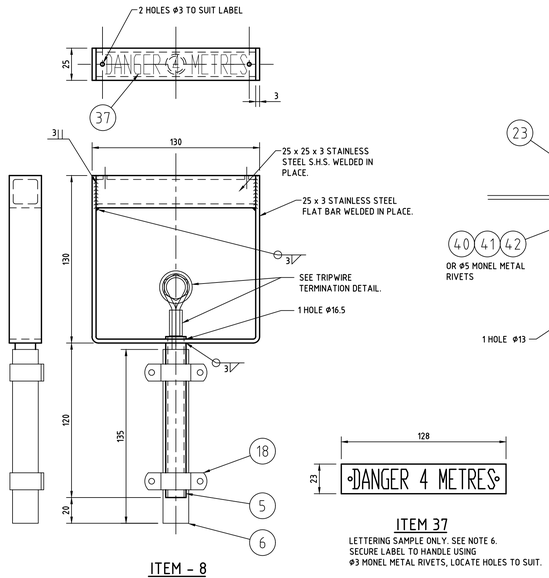
PULLEY LOCATION IS DETERMINED BY THE LOCATION OF THE TRIPWIRE & S.S. SUPPORT TUBING.

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 ARRANGEMENT	B1-18894

NOTES

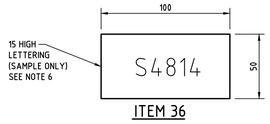
1. ALL STEELWORK TO BE FABRICATED IN ACCORDANCE WITH AS4100.
2. AFTER FABRICATION ALL BURRS AND SHARP EDGES TO BE REMOVED.
3. ALL WELDING TO BE IN ACCORDANCE WITH AS1554, PART 1.
4. AFTER FABRICATION ALL WELDS TO BE CHIPPED FREE OF SLAG.
5. AFTER FABRICATION STEELWORK TO BE HOT DIP GALVANISED TO AS4680.
6. 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).
7. PULLEYS (ITEMS 38 & 39) AVAILABLE RONSTAN INTERNATIONAL PTY LTD. IF AN EQUIVALENT MODEL OR BRAND IS USED, THEY SHALL HAVE SIMILAR MOUNTING FLANGES & BE OF EQUIVALENT SIZE.
8. TO PREVENT FOULING OF SCREWS, RIVET HEADS OR SERVICES, EITHER SCABBLE THE WALL BEHIND THE FASTENERS OR PACK BRACKETS OFF THE WALL USING SPACERS. (SEE ITEM 22).



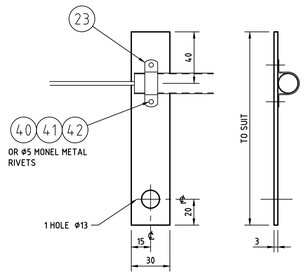
ITEM - 8

ITEM 37

LETTERING SAMPLE ONLY. SEE NOTE 6.
SECURE LABEL TO HANDLE USING Ø3 MONEL METAL RIVETS, LOCATE HOLES TO SUIT.

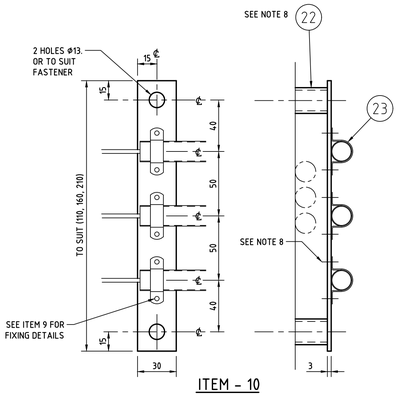


ITEM 36



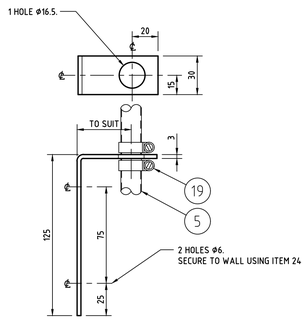
ITEM - 9

SUPPORTS ARE TO BE SPACED TO PROVIDE RIGIDITY TO THE TRIPWIRE STAINLESS STEEL TUBING.

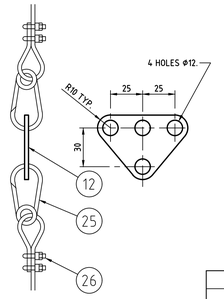


ITEM - 10

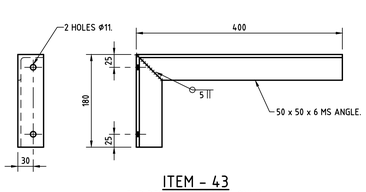
CAN BE SINGLE OR MULTI TUBE ARRANGEMENT. LENGTH OF STRAP, SPACERS & LOCATION OF S.S. TUBES MAY VARY TO SUIT INDIVIDUAL INSTALLATIONS.



ITEM - 11

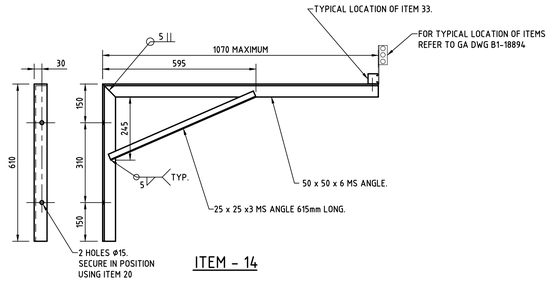


ITEM - 12

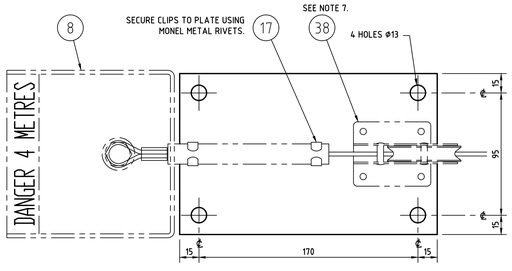


ITEM - 43

FOR RECORD PURPOSES ONLY
PREVIOUSLY MARK 15
MAY BE FABRICATED ON SITE USING UNISTRUT FITTINGS OR EQUIVALENT TO SUIT SITE CONDITIONS & TYPE OF FLOAT SWITCH TO BE INSTALLED.

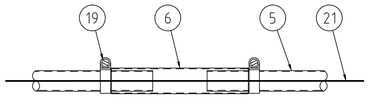


ITEM - 14

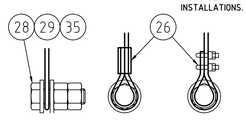


ITEM - 15

NOTE - TYPE OF PULLEY SHOWN VARIES TO SUIT INDIVIDUAL APPLICATIONS.

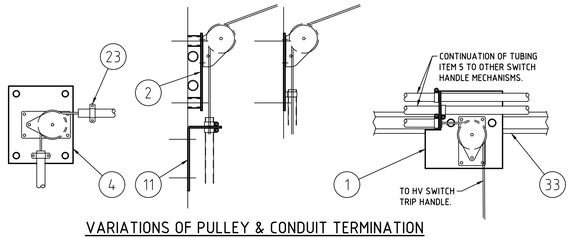


TYPICAL TUBE JOINING DETAIL



TRIPWIRE TERMINATION DETAIL

STAINLESS STEEL TRIPWIRE ROPE TO BE TERMINATED. BARE ENDS OF WIRE ROPE TO BE TAPED WITH PLASTIC INSULATION TAPE OR SIMILAR.



VARIATIONS OF PULLEY & CONDUIT TERMINATION ARRANGEMENTS

REFER TO DRAWING B1-18894

ITEM	DESCRIPTION	MATERIAL/REF DRG
43	FLOAT SWITCH BRACKET HOT DIP GALV.	HOT DIPPED GALVANISED
42	M5 BRASS FLAT WASHER	BRASS
41	M5 BRASS HEX HD NUT	BRASS
40	M5 x 15 BRASS CH HD SET SCREW	BRASS
39	PULLEY RONSTAN OR EQUIVALENT SINGLE TURNING BLOCK WITH FLAT BASE BLACK SS	MODEL No. RF1278 REF. DRG B1-16500. SEE NOTE 7
38	PULLEY RONSTAN OR EQUIVALENT SINGLE VERTICAL TURNING BLOCK WITH BLACK SS CHECKS	MODEL No. RF1248 REF. DRG B1-16500. SEE NOTE 7
37	PULLOUT HANDLE DISTANCE LABEL (eg DANGER 4 METRES)	REF. DRG B1-18894 & B1-16500. SEE NOTE 6
36	PULLOUT HANDLE HV SWITCH NUMBER TRIP INDICATION LABEL	REF. DRG B1-18894 & B1-16500. SEE NOTE 6
35	M12 HEX HD NUT	HOT DIPPED GALVANISED
34	P1325 UNISTUT 90° ANGLE HOT DIPPED GALV.	REF. DRG B1-18894. HOT DIPPED GALVANISED
33	P1000 UNISTRUT HOT DIPPED GALV.	HOT DIPPED GALVANISED
32	M10 SS FLAT WASHER	REF. DRG B1-18894
31	M10 x 25 HEX HD SS SET SCREW	REF. DRG B1-18894
30	P1008 M10 UNISTRUT NUT ZP	REF. DRG B1-18894
29	M12 FLAT WASHER	HOT DIPPED GALVANISED
28	M12 x 25 HEX HD SET SCREW	HOT DIPPED GALVANISED
27	P1010 M12 UNISTRUT NUT ZP	REF. DRG B1-18894
26	SWAGING WITH FERRULES OR 2 OFF x 3mm WIRE ROPE GRIPS	
25	Ø4 SS SNAP HOOK	
24	RAMSET OR EQUIV. 5mm EASY DRIVE NYLON MASONRY ANCHOR WITH SS NAIL	
23	Ø16 COPPER SADDLE	
22	WALL SPACER - Ø16 TUBE (LENGTH AS REQUIRED)	Ø 16 x 1.6 SS TUBE. SEE NOTE 8
21	TRIP WIRE Ø4 FLEXIBLE SS WIRE ROPE 6/19 CONSTRUCTION	
20	M12 SS MASONRY ANCHOR COMES WITH NUT & WASHER	
19	WORM DRIVE HOSE CLAMP SS FOR Ø 16 TUBE	
18	Ø20 COPPER SADDLE	
17	Ø16 SPRING STEEL CLIP	
16	OPERATING CRANK WHEEL	CAST IRON & STEEL. REF DRG A2-10578
15	DOORWAY ACCESS (HORIZONTALLY MTD) PULLOUT HANDLE MOUNTING BRACKET WITH PULLEY	3mm THICK BRASS SHEET
14	SUPPORT BRACKET HOT DIPPED GALV.	25x25x3 , 50x50x6 MS ANGLE GALV. REF DRG B1-18894
13	P1377 'U' SHAPE FITTING HOT DIPPED GALV. (TO JOIN P1000 UNISTRUT)	M.S. HOT DIP GALVANISED. REF DRG B1-18894
12	MULTI-CABLE JOINING LINK	3mm THICK BRASS SHEET
11	SINGLE WALL MOUNTED CONDUIT SUPPORT BRACKET	3 x 30mm BRASS FLAT STRIP
10	MULTIPLE CONDUIT SUPPORT BRACKET	3 x 30mm BRASS FLAT STRIP
9	SINGLE CONDUIT SUPPORT BRACKET	3 x 30mm BRASS FLAT STRIP
8	PULLOUT HANDLE FOR HV SWITCH TRIPWIRE	25 x 25 x 3 S.H.S., 25 x 3, FLAT BAR, Ø16 x 0.6 SS TUBE
7	UNISTRUT MOUNTED CORNER PULLEY MOUNTING BRACKET	5mm M.S. SHEET HOT DIP GALVANISED.
6	Ø 20 STAINLESS STEEL TUBE	Ø20 O.D. x 0.6mm THK S.S. TUBE
5	Ø 16 STAINLESS STEEL TUBE	Ø16 O.D. x 0.6mm THK S.S. TUBE
4	WALL MOUNTED PULLEY MOUNTING BRACKET	3mm BRASS SHEET
3	MULTIPLE CONDUIT SPACER SUPPORT BRACKET	3mm BRASS SHEET
2	CORNER PULLEY MOUNTING BRACKET	5 x 50 M.S. FLAT. BAR HOT DIP GALVANISED.
1	UNISTRUT MOUNTED COMBINED MULTIPLE CONDUIT SUPPORT / PULLEY MOUNTING BRACKET	3mm BRASS SHEET

CAD DRAWING
DO NOT MANUALLY AMEND

AMENDMENTS

11. DRAWING REDRAWN ON CAD & UPDATED TO CURRENT STANDARDS. ITEMS RE-ARRANGED TO SUIT NEW LAYOUT. C. SAWDY 10-07-03 CHECKED P.H.

12. FLOAT SWITCH MOUNTING BRACKET (ITEM 43) ADDED. WAS MARK 15 ON AMENDMENT No. 10. C. SAWDY 23-09-2003 CHECKED P.H.

13. NEW AUSGRID BORDER & LOGO ADDED. R. LAALAA 10-09-2013 CHECKED T. LAMPARD

14. BORDER & TITLE BLOCK UPDATED. M.BENNETT 20/09/2024 CHECKED. L.MARTINUZZI APPROVED. M.BENNETT

0 5 10
CENTIMETRES ON ORIGINAL DRAWING AT SCALE 1:2

Ausgrid
24-28 Campbell Street
SYDNEY NSW 2000

SCALE	1:2,5,10
DESIGNED	-
DRAWN	K.STEPHENSON
CHECKED	G.ANTONIOU
APPROVED	P.HUDSON
DATE	10/07/2003
TRIM REF	-
PROJECT NUMBER	ES 99-15-4-14

ISSUED FOR CONSTRUCTION

SYDNEY CBD TYPE SUBSTATIONS & CONTROL POINTS EMERGENCY PULL-OUT GEAR OPERATING EQUIPMENT ARRANGEMENT & DETAILS

DRAWING No 16500 | SHEET 1 | AMD 14 | SIZE B1

©