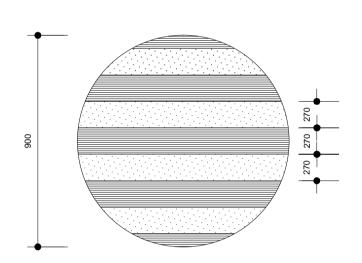


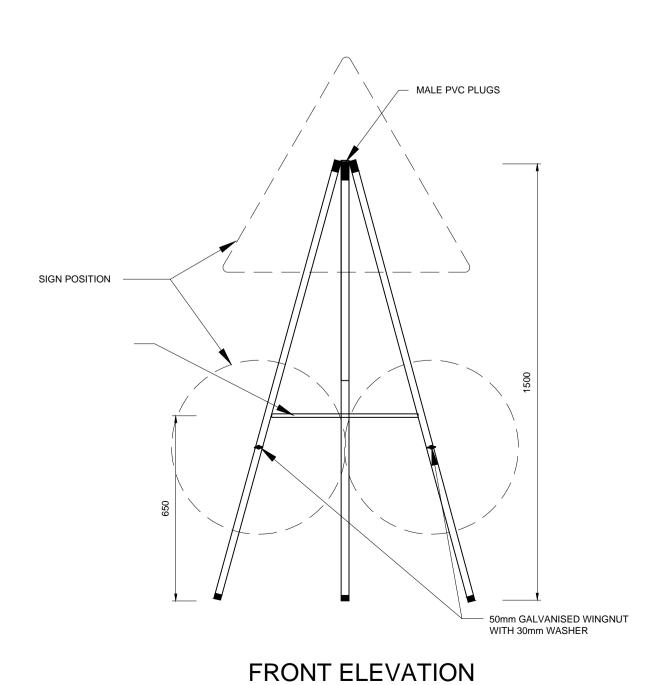
MOVABLE BARRICADES

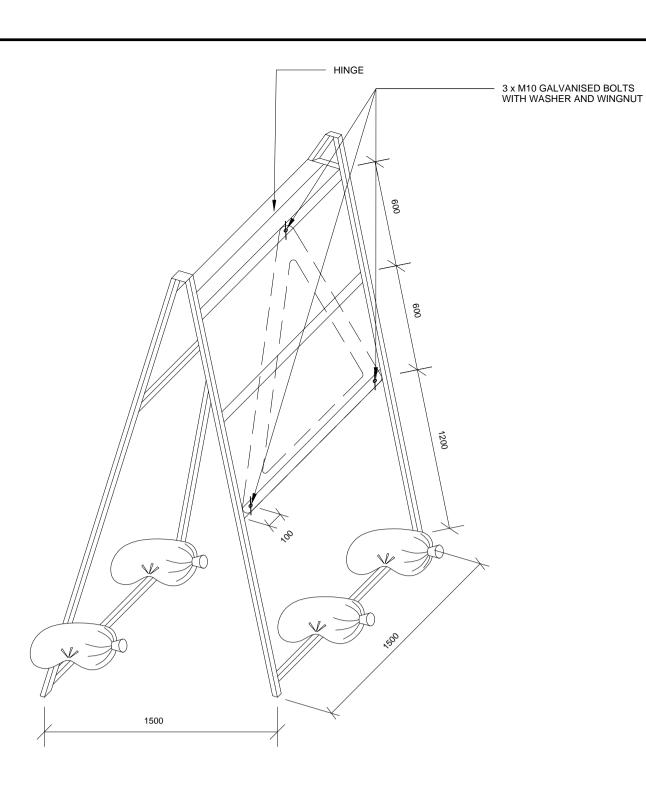
NOT TO SCALE



REVERSE SIDE OF PORTABLE SIGNS

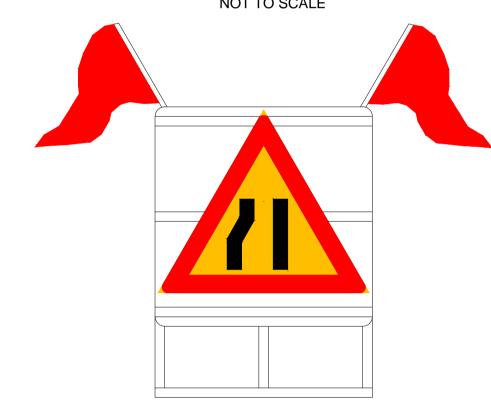
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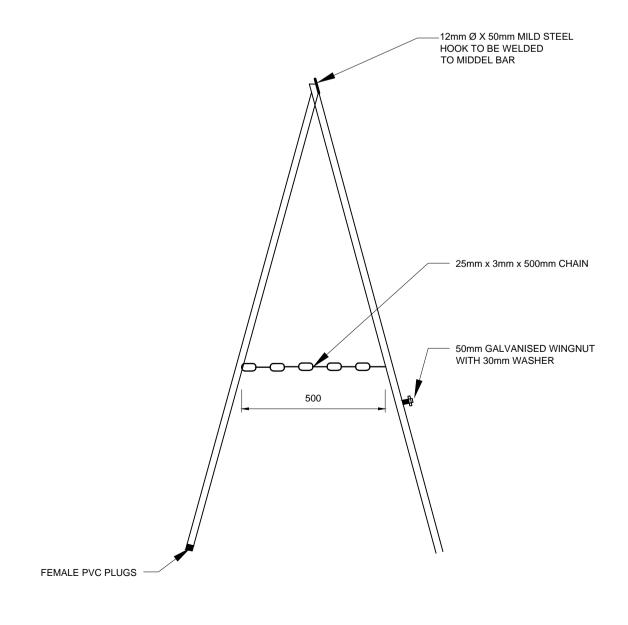
FOLDING STANDS WITH CHANGABLE SIGNS (1500mm)

NOT TO SCALE



FOLDING STANDS WITH FLAG ATTACHMENTS - FRONT SIDE

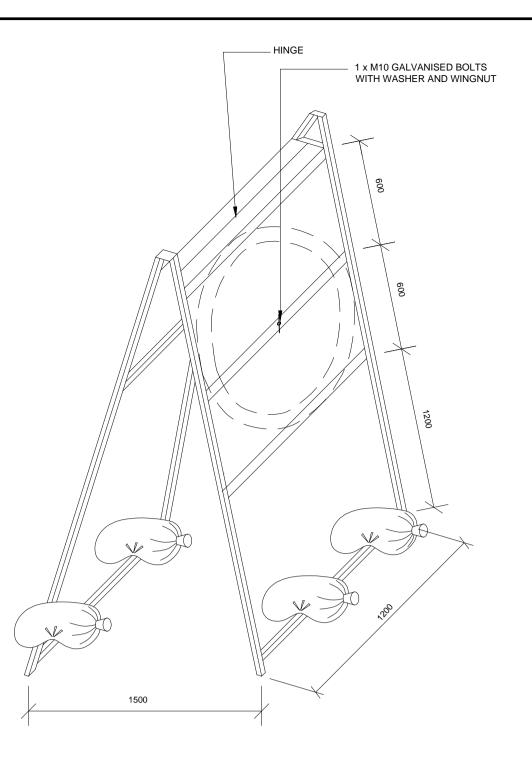
NOT TO SCALE



SIDE ELEVATION

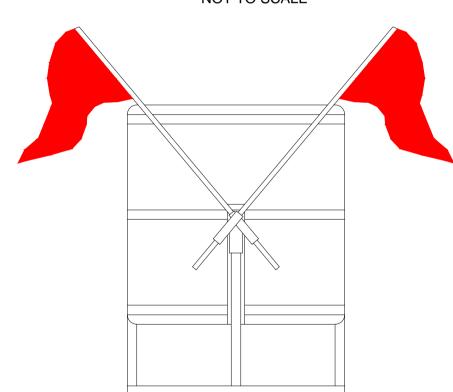
ROADWORKS FOLDING STAND

NOT TO SCALE



FOLDING STANDS WITH CHANGABLE SIGNS (1200Ø)

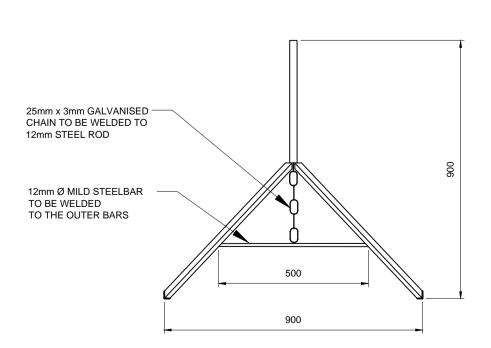
NOT TO SCALE



FOLDING STANDS WITH FLAG ATTACHMENTS - REVERSE SIDE

NOT TO SCALE

THE SECTION OF THE STAND SHALL BE OF A 25mm x 25mm HALLOW SQUARE SECTION OR 25mm Ø ROUND SECTION OF 1,6mm WALL STANDS SHALL BE PAINTED WITH 1 COAT PRIMER. 1 UNDERCOAT AND 1 FINAL COAT BRIGHT YELLOW. TRAFFIC SIGN HOOK AND 2 X 30mm GALVANISED BOLTS WELDED TO THE FRAME COMPLETE WITH 50mm GALVANISED WINGNUTS AND 30mm WASHER TO BE FITTED AS INDICATED ON THE DRAWIN. ALL WELDING SHALL BE 6mm FILLET RIGHT AROUND, TOP OPEN ENDS OF SQUARE TUBING TO BE PLUGGED WITH MALE PVC PLUGS AND BOTOM OPEN ENDS TO BE PLUGGED WITH FEMALE



PLAN

NOTES AND SPECIFICATIONS

POLES, SIGNS, FRAME PANEL AND BREAKAWAY DETAIL

.1 FOR STANDARD REGULATORY AND WARNING SIGNS, POLES USED SHALL BE OF "D" SECTION OBTAINED BYROLLING FLAT MILD STEEL PLATE OF 2MM WALL
THICKNESS TO THE DESIRED FORM, AND SEAM-WELDING IT ALONG THE

ENTIRE LENGTH (THE D-SECTION EXTRUDE FROM STANDARD PIPE SECTION IS NOT ACCEPTABLE).

THE D SECTION MUST HAVE A FLAT BASE OF APPROXIMATELY 63MM MEASURED EXTERNALLY AND THE CIRCULAR PART AN EXTERNAL DIAMETER OF 76MM. EACH POLE IS TO BE BLANKED-OFF AT THE TOP BY MEANS OF AT LEAST 2MM MILD STEEL PLATE WELDED TO THE TOP, WITH THE SAME FORM AS THE D SECTION. THE WELDING JOINT MUST BE WATERTIGHT AND SMOOTHED OFF AFTER

WELDING.
4 THE BASE PLATE FOR D SECTION POLES AND 76MM Ø ROUND POLES TO BE 150MM SQUARE AND 2MM THICK, AND WELDED TO THE BASE OF EACH POLE BY MEANS OF 4 EVENLY SPACED WELDS, EACH NOT LESS THAN 20MM LONG. THE BASE PLATE FOR 100MM Ø ROUND POLES TO BE 200MM SQUARE.

THE POLES SHALL BE HOT DIPPED ZINC COATED (GALVANISED).

1.6 ALL POLES > 3.6M IN LENGTH TO BE 100MM Ø ROUND POLES WITH 3MM WALL THICKNESS.

7 POLES USED FOR SIGNS > 1.5M² TO BE DESIGNED IN LINE WITH SARTSM VOLUME 2 CHAPTER 15.

1.8 ALL POLES USED FOR STREET NAME SIGNS SHALL BE 3.6M ROUND SECTIONS

1.9 SIGNS MUST BE INSTALLED ONTO BREAK AWAY FOOTINGS ON PAVED CONCRETE ISLANDS.

1.10 HOLES TO BE DRILLED AS DIRECTED BY THE ENGINEER.

.11 SIGN DATE NEEDS TO BE APLICATE TO THE FRONT OF THE POLE 50MM HIGH VINYL.

1.12 NO JOINTING OF POLES ALLOWED.

AND 76MM Ø.

.1 ALL SIGNS TO BE MANUFACTURED WITH CLASS I ENGINEERING GRADE PRISMATIC MATERIAL HAVING A 7 YEAR WARRANTY PERIOD, WHILE ALL HAZARD MARKERS TO BE MANUFACTURED WITH CLASS 3 HIGH INTENSITY PRISMATIC MATERIAL HAVING A 10 YEAR WARRANTY PERIOD. ALL PANEL SIGNS TO BE CLASS 3 REFLECTIVE GROUND MOUNTED AND CLASS 4 REFLECTIVE FOR OVERHEAD SIGNS. ALL TEMPORARY SIGNS TO BE CLASS 3 REFLECTIVE MATERIAL.

.2 NO UNISTRUTS ON SIGNS ARE ALLOWED FOR 600MM R SERIES AND UP TO 900MM W SERIES SIGNS, WHILE SIGNS > 1200MM REQUIRE UNISTRUTS. 2.3 ALL SIGN CORNERS TO BE ROUND R=25MM (EXCLUDING R1).
2.4 ALL SIGNS TO BE FIXED FLAT AGAINST THE POLES.

2.5 ALL VINYL TO BE CAST VINYL WITH 10 YEAR WARRANTY FOR ROAD SIGNS.
2.6 ALL INK USED FOR SILK SCREENING MUST BE FROM THE SAME SUPPLIER AS THE

REFLECTIVE MATERIAL.
2.7 SYMBOLS FOR W416/7 TO BE SILK SCREENED.
2.8 STREET NAME FONT TO BE DIN "A" AS PER

SARTSM VOL. 4
2.9 TYPE 2 & 3 STREET NAMES >1500MM REQUIRE 2 POLES AND BRACKETS. 2.10 REFLECTIVE SHEET ONLY TO BE APPLIED ONTO THE VERTICAL SECTION OF THE

STREET NAME PLATE. 2.11 NO JOINTING OF REFLECTIVE MATERIAL ALLOWED ON SIGN FACE.
2.12 ALL BOLTS TO HAVE WASHERS.

FRAME DETAIL. FRAMES ONLY TO BE USED FOR W409 TO W411

1 THE FRAME SHALL BE OF A 38mm x 38mm HOLLOW SQUARE

SECTION OF 2mm WALL THICKNESS.

3.2 FRAMES SHALL BE HOT DIPPED GALVANIZED.

3.3 ALL WELDING SHALL BE 6mm FILLET RIGHT AROUND.

3.4 FRAME SHALL BE COMPLETE WITH A 50mm x 80mm BRACKET AS PER DETAIL C AT THE TOP OF THE FRAME AND 200mm LONG UNISTRUT SECTION AT THE BOTTOM OF THE FRAME.

UNISTRUT TO BE SUPPLIED COMPLETE WITH CLAMPS, BOLTS, NUTS AND WASHERS.

6 ALL CUTTING, WELDING AND DRILLING TO BE DONE BEFORE THE GALVANIZING. ALL CORNERS TO BE CUT AND JOINED AT 45°

PANEL DETAIL ALL HIGH VISIBILITY , GUIDENCE INFORMATION SIGNS TO BE PANEL SIGNS

.1 ALL PANELS SHALL BE MANUFACTURED FROM 1,0mm THICK CHROMADEK MILD STEEL PLATE FOR PANELS < 200mm .2 A SIGN FACE WHICH EXCEEDS 6.3m IN LENGTH MAY BE MANUFACTURED IN 2 SECTIONS. THE JOINT SHALL NOT EXCEED 2mm. PANELS TO BE JOINED WITH

M10 NUT WITH SPRINGNUT. REFER TO SARTSM VOLUME 2 CHAPTER 15 FOR .3 1,4mm CHROMADEK CHANNEL TO BE USED AT THE VERTICAL SIDES OF THE SIGN.

3.4 BLIND RIVETS SHALL BE 4.8mm Ø CADMIUM PLATED MILD STEEL.
4.5 STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:

MILD STEEL: BS 4360, GRADE 43A; OR SABS 1431, GRADE 300W.

6.6 ALL WELDING OF STEELWORK SHALL BE CARRIED OUT IN ACCORDANCE WITH

7 WELDING, CUTTING AND DRILLING SHALL BE DONE BEFORE GALVANISING. BREAK-AWAY POLE FOOTING

5.1 STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS: MILD STEEL; BS 4360, GRADE 43A: OR SABS HIGH-YIELD STRESS STEEL: BS 4360 GRADE 50B; OR SABS 1431, GRADE 350W. HIGH-YIELD STRESS STEEL: BS 4360

GRADE 50B: OR SABS 1431, GRADE 350W. ALL WELDING OF STEELWORK SHALL BE CARRIED OUT IN ACCORDANCE WITH

BS 5135.
5.3 WELDING, CUTTING AND DRILLING SHALL BE DONE BEFORE GALVANISING.

ALSO REFER TO SECTION 612 AND 809 OF THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS, 3rd EDITION, 2005.

AMENDMENTS									
NR.	DATE	APPROVED		DESCRIPTION	PAR.				
DESIGNED				DRAWN					
J. CRONJE Pr. Tech Eng.				S. AUDIE					
	HECKED BY			INFRASTRUCTURE TECHNICAL INFORMA	TION				
S. NAIDOO Pr. Tech Eng.				MANAGEMENT D.J. CHALMERS					

CITY OF TSHWANE **ROADS AND TRANSPORT DEPARTMENT**

GROUP HEAD Mr Letlonkane P. (Pheko) P.O. BOX 1409 PRETORIA

DIVISIONAL HEAD Mr Marven K Tlhagale P.O. BOX 1409 PRETORIA

Mr K Tlhagale (Marven)

DIVISIONAL HEAD Mr L. Swanepoel (Lourens)

TRANSPORTATION PLANNING

DRAWING APPROVED BY GROUP HEAD Mr Letlonkane P. (Pheko)

TYPICAL STANDARD **DETAILS**

DESCRIPTION OF PROJECT

SIGN BOARDS

ACCOMMODATION TRAFFIC: BARRICADE FOLDING STAND DETAIL

CONTRACT No. :	PROJECT No.:				
DATE :	SCALE :	SCALE :		ORIGINAL PAPER SIZE:	
17 NOVEMBER 2022	NOT TO	SCALE	A1		
STD018		SHEET NO: 6 OF 6		REVISION	