

FRONT ELEVATION

ON TEE BRACKET (TB2)

1No. REQUIRED

APPROX. WEIGHT = 5.9kg

SCALE 1:5

SIDE ELEVATION

ON TEE BRACKET

(TB2)

SCALE 1:5

FRONT ELEVATION ON 5mm THICK

STEEL REAR COVER PLATE

BASE PLATE

PLAN ON 10mm THICK

STEEL BASE PLATE

(TYPICAL)

SCALE 1:5

SIDE ELEVATION

ON TEE BRACKET

(TB1)

SCALE 1:5

FRONT ELEVATION

ON TEE BRACKET (TB1)

21No. REQUIRED

APPROX. WEIGHT = 5.9kg

SCALE 1:5

ABSOLUTE MINIMUM HEIGHT OF PARAPET IS TO BE 1850mm FROM STANDING SURFACE OR ANY FOOTHOLD WITHIN 6m OF

- 6. STEEL GRADES IN ACCORDANCE WITH BS EN 10025 2004
- ALL WELDING SHALL BE IN ACCORDANCE WITH BS EN 1011-1:1998 AND AMENDMENT NO.1: 2002. BS EN 1011-2, BS EN 729 AND THE SPECIFICATION. ALL WELDERS SHALL BE APPROVED TO BS EN 287 PART 1 AND BS EN 1418.
  - ALL GALVANISED BOLTS AND ANCHORAGES DAMAGED/CUT DURING IMPLEMENTATION TO BE TOUCHED UP WITH
- PROTECTIVE TREATMENT OF NEW STEELWORK ELEMENTS TO BE HOT DIP GALVANISED TO BS EN ISO 1461:2009 AND
- 10. ALL DIMENSIONS OF NEW STEELWORK/FRP ELEMENTS AND BOLT LOCATIONS TO BE CONFIRMED PRIOR TO FABRICATION BY CONTRACTOR BY UNDERTAKING A SITE SURVEY.
- 11. CONTRACTOR TO CONFIRM ALL THE BOARD DIMENSIONS AND HOLE LOCATIONS PRIOR TO CUTTING THE FINAL LENGTHS.
- 14. FRP PANELS ARE TO BE FABRICATED FROM FYBATEX FRP PLATES BY SMYTH COMPOSITES LTD OR SIMILAR APPROVED.
- 15. ALL FRP BOARDS AND COMPONENTS ARE TO BE STORED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS
- 16. ALL FIELD CUT & DRILLED EDGES, HOLES & ABRASIONS FOR FRP SHALL BE SEALED WITH A CATALYZED RESIN AS RECOMMENDED BY MANUFACTURERS. THE SEALING OF THE EDGES SHALL PREVENT PREMATURE FRAYING OF THE FIELD
- 17. ALL GAPS BETWEEN FRP ELEMENTS TO BE FILLED WITH 2 PART POLYSULPHIDE SEALANT OR SIMILAR APPROVED.

## RESIDUAL RISKS 🗘

- 1. INJURY DUE TO WORKING AT HEIGHT
- 2. INJURY DUE TO WORKING WITH POWER TOOLS.
- 3. INJURY DUE TO MANUAL HANDLING.
- 4. DRILLING THROUGH REINFORCED CONCRETE. 5. OLE BELOW STRUCTURE.
- 6. ILLNESS DUE TO CHEMICALS WITHIN PAINT SYSTEMS
- AND SEALING RESIN.
- 7. EXPOSURE TO FRP FIBRES FROM FIELD CUT EDGES.
- 8. FITMENT OF FRP PLATES AND STEELWORK ELEMENTS
- 9. DAMAGE TO REINFORCED CONCRETE.

SECOND ISSUE RD RB TC

FIRST ISSUE

Drawn Chkd Appr Description of Revisions



ET RB TC

LIVERPOOL TO MANCHESTER DSE LINE **ELECTRIFICATION WORKS** 

> DSE/39 QUEENS DRIVE PROPOSED DETAILS **AREA 2 - CONCRETE PARAPET**

Designer	R. TURNER	Signed	Rose	•	Date 18.12.2015
Drawn	E. THOMPSON	Signed	E. Thanp	~22	Date 18.12.2015
Checked	R. BRINNERS	Signed	RTJR		Date 18.12.2015
Approved	T. CHEETHAM	Signed	4 Cherth		Date 18.12.2015
Scale(s) at A1 Sheet Size A1 594 x 841		ELR & Mile	eage		
AS SHOWN		ELR : D	SE	3m 044	0yds
Drouging Number					

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