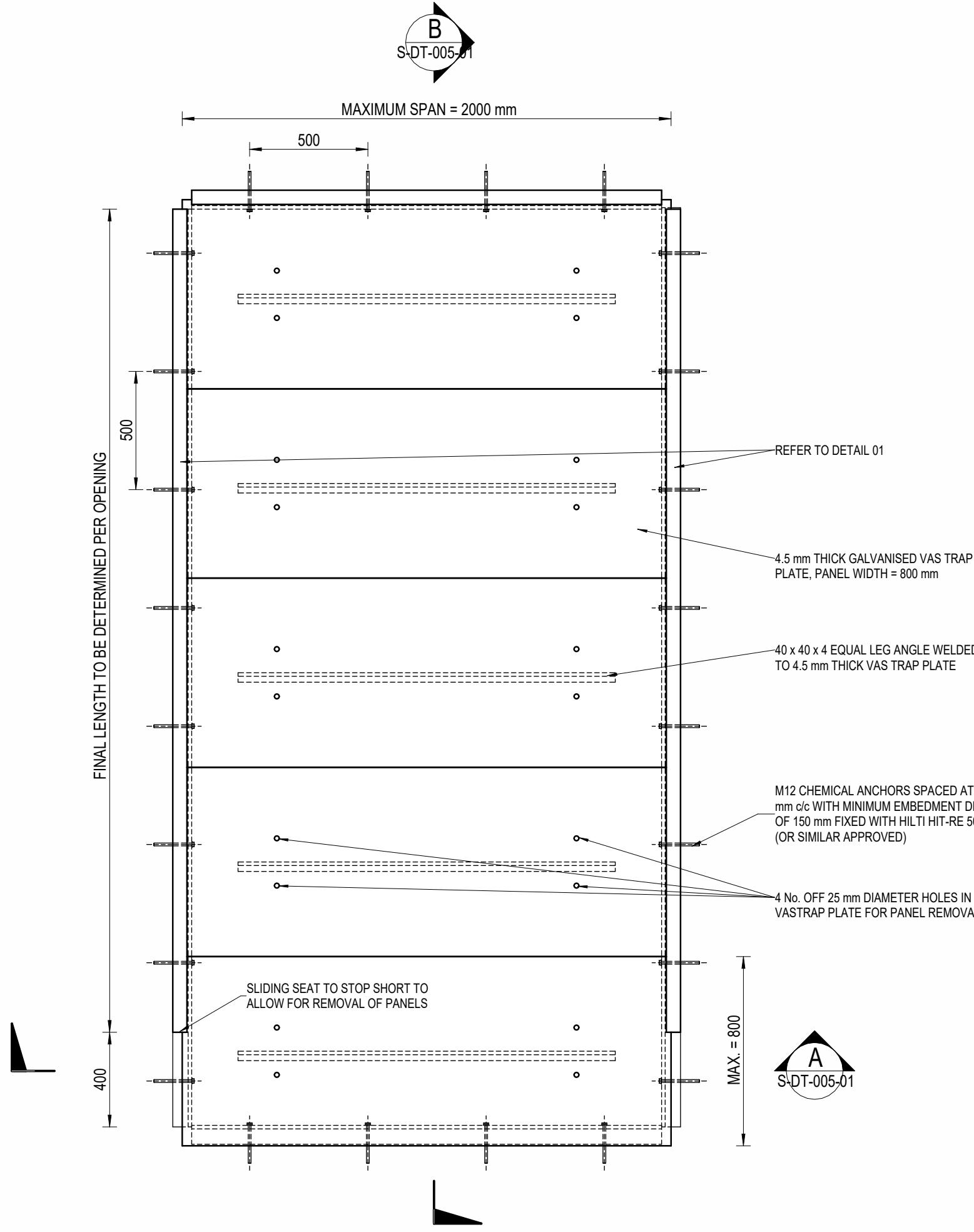
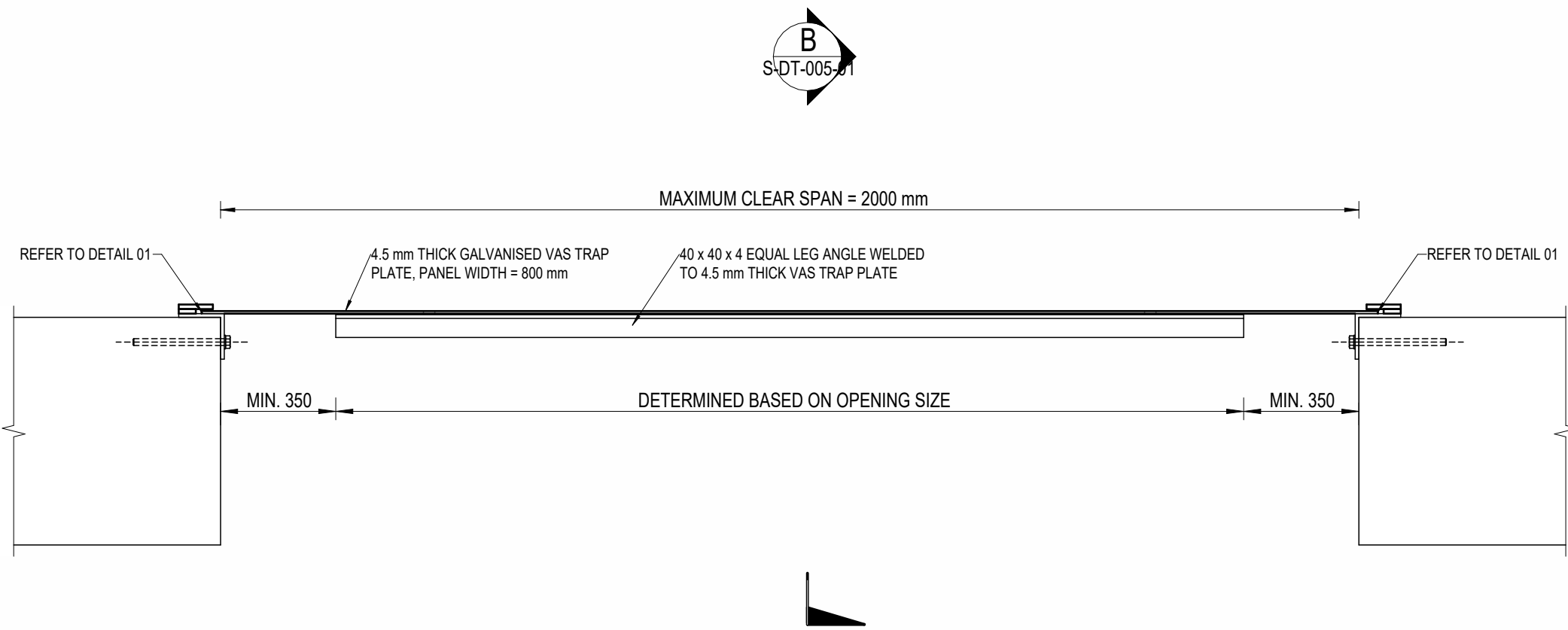


**TYPICAL ISOMETRIC VIEW**  
NTS

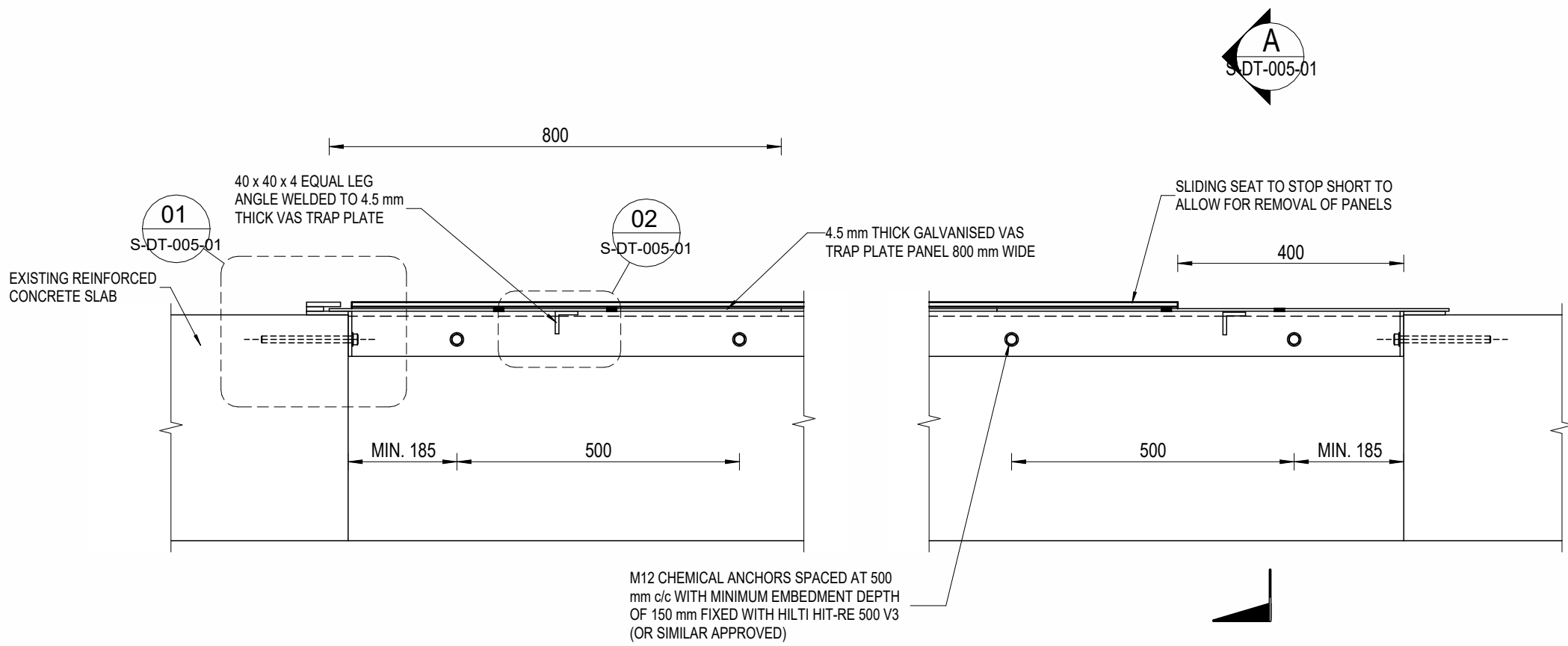


**TYPICAL PLAN LAYOUT - SLIDING ROOF COVER**  
SCALE 1 : 20

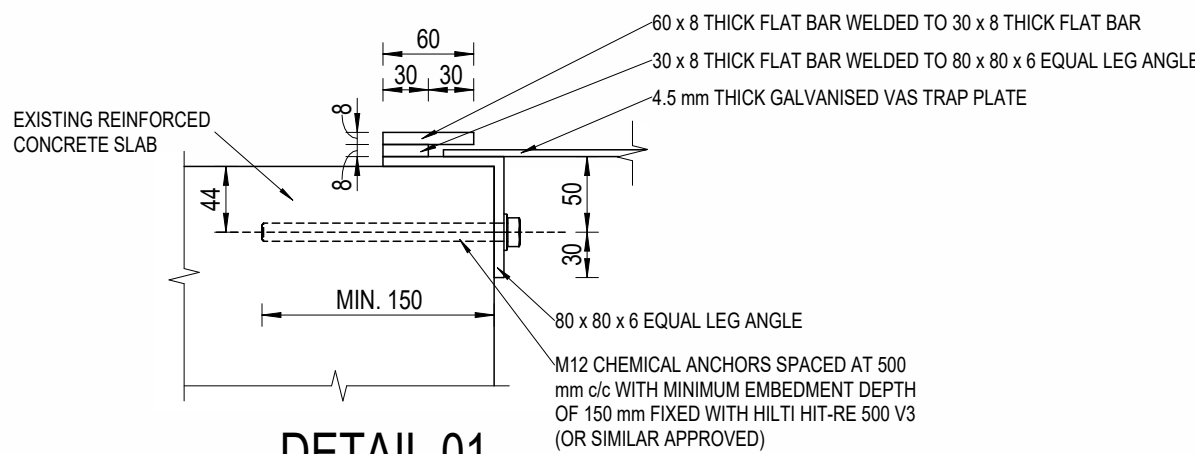
- A. STRUCTURAL STEEL:**
1. APPLICABLE SPECIFICATION: SPECIFICATION FOR STRUCTURAL STEELWORK SABS 1021-1:2004 PART 3 STRUCTURAL STEELWORK
  2. ALL RELEVANT CONCRETE DIMENSIONS SHALL BE CHECKED ON SITE BEFORE MANUFACTURING OF STRUCTURAL STEEL MAY COMMENCE.
  3. ALL WELDING AND SURFACE TREATMENT SHALL BE DISCUSSED, INSPECTED AND APPROVED BY ENGINEER. ONLY CERTIFIED WELDERS SHALL BE USED.
  4. WORKSHOP DETAIL DRAWINGS SHALL BE CHECKED BY ENGINEER BEFORE MANUFACTURING OF STRUCTURAL STEEL MAY COMMENCE.
  5. ALL WELDS SHALL BE 6mm FILET WELDS, UNLESS INDICATED OTHERWISE.
  6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE UNTILL ALL ELEMENTS ARE FIXED. CONTRACTOR TO ENSURE THAT TRUSSES ARE PROPERLY BRACED AND ALIGNED DURING AND AFTER CONSTRUCTION.
  7. SEE STRUCTURAL STEEL SPECIFICATION FOR MINIMUM PAINT SPECIFICATION.
  8. THE STEEL SHALL BE STAINLESS STEEL GRADE 304L. ALL MEMBERS SHALL CARRY THE RELEVANT STEEL SYMBOL TO IDENTIFY STEEL GRADE PRIOR TO MANUFACTURING.
  9. ALL BOLTED CONNECTIONS SHALL HAVE A MINIMUM OF 2 BOLTS UNLESS NOTED OTHERWISE.
  10. ALL GUSSET PLATES SHALL BE MINIMUM 8mm THICK UNLESS NOTED OTHERWISE.
  11. EDGE DISTANCE FOR BOLTED CONNECTIONS SHALL BE IN ACCORDANCE WITH SABS 0162 UNLESS NOTED OTHERWISE.
  12. OMIT PAINT WITHIN 50mm OF FIELD WELDED CONNECTIONS.
  13. SHOP SPLICING OF MEMBERS WILL NOT BE PERMITTED WITHOUT PRIOR WRITTEN APPROVAL OF THE DESIGN ENGINEER. APPROVED SPICES SHALL HAVE A CAPACITY OF 100% OF THE SPLICED MEMBER AND ACCEPTANCE SHALL BE SUBJECT TO THE RESULTS OF NON DESTRUCTIVE TESTS. COST OF SPLICING AND TESTING SHALL BE BORNE BY THE FABRICATOR.
  14. HOLD OUT-TO-CUT DIMENSIONS EXACT FOR ALL CONTINUOUS RUNS OF BEAMS TO AVOID AN ACCUMULATIVE ERROR.
  15. GROUT:
    - a. NON METALLIC, NON SHRINK GROUT. TO BE APPROVED BY ENGINEER BEFORE USE. APPLICATION AS PER SASSTEC SPECIFICATION SP-10-5.
    - b. ALL GROUTING UNDER MECHANICAL EQUIPMENT IS TO BE DONE BY OTHERS. GROUTING UNDER STRUCTURAL STEEL PLATES BY CIVILS CONTRACTOR.
  16. HOT-DIP GALVANIZING OF STRUCTURAL STEEL, WHERE SPECIFIED SHALL BE DONE ACCORDING TO THE REQUIREMENTS OF SABS 763 (HEAVY DUTY: 610g/m<sup>2</sup>).
  17. ALL STRUCTURAL STEEL UNDER UNFINISHED FLOOR LEVEL TO BE PAINTED WITH 2 LAYERS EPOXY TAR OR TO BE COVERED WITH 25MPa CONCRETE NOT LESS THAN 100mm THICK.
  18. FOR FULL PENETRATION FIELD WELDS, BACKING PLATES SHALL BE USED. TACK WELD BACKING PLATE TO APPROPRIATE MEMBER FOR SHIPMENT.
  19. ALL MEMBERS TO BE WELDED ALL ROUND.
  20. ALL BOLTS TO BE CLASS 8.8 UNLESS OTHERWISE INDICATED.
- B. CORROSION PROTECTION**
- ALL STRUCTURAL STEELWORK NOT STAINLESS STEEL SHALL BE PROTECTED BY MEANS OF THE FOLLOWING COATING SYSTEM:
- PREPARATION (WORKSHOP) : BLAST CLEAN TO SA 2½, BLAST PROFILE 40 TO 60 MM
  - 1<sup>st</sup> PRIMER (WORKSHOP) : ZINC PHOSPHATE PRIMER RED OXIDE
  - 2<sup>nd</sup> COAT (WORKSHOP) : HIGH GRADE ALKYD ENAMEL
  - 3<sup>rd</sup> COAT (WORKSHOP) : HIGH GRADE ALKYD ENAMEL
  - 4<sup>th</sup> COAT (SITE) : HIGH GRADE ALKYD ENAMEL



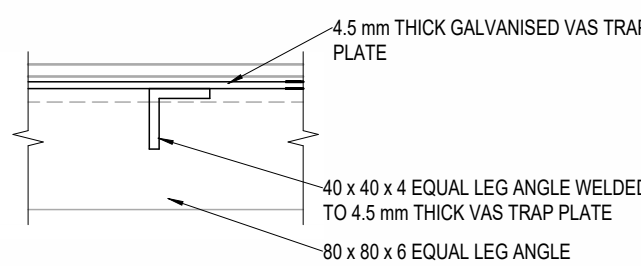
**SECTION A-A**  
SCALE 1 : 10



**SECTION B-B**  
SCALE 1 : 10



**DETAIL 01**  
SCALE 1 : 5



**DETAIL 02**  
SCALE 1 : 5

DRAWING NUMBER  
**P08959-S-DT-005-01**

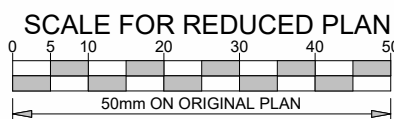
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## TENDER



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CLIENT  
**WATER AND SANITATION**  
ETHEKWINI MUNICIPALITY

SANITATION OPERATIONS: MECHANICAL AND ELECTRICAL BRANCH

CONTRACT NO. **30661-5W**

PROJECT TITLE  
**SOUTHERN WATWATER TREATMENT WORKS: ELECTRO-MECHANICAL UPGRADES**

DRAWING TITLE  
**SLIDING STEEL COVER PLATE**

PROJECT MANAGER & M&E ENG. R. Kandhai  
MECHANICAL ENGINEER: B. Coles  
WORKS PROJECT MANAGER: A. Pillay  
DEPUTY HEAD: SANITATION OPS: S. Vilane  
HEAD: WATER AND SANITATION: E. Msweli  
SCALE: AS SHOWN DATE: 2024/11/25  
DRAWING NUMBER 30661-5W/ S/PS/005 SHEET 01 REV A