

I- GENERAL

- 1. ALL STRUCTURE WORK SHALL CONFORM THE REQUIREMENTS OF THE SPECIFICATION AS WELL AS STANDARD DRAWINGS.
- 2. ALL DIMENSIONS ARE IN (M) UNLESS OTHERWISE SPECIFIED.
- 3. ALL RECOMMENDATIONS MENTIONED IN SOIL INVESTIGATION REPORT SHOULD BE REFERED BY THE SITE ENGINEERS.

II- STEEL WORKS:

- 1. STEEL WORKS SHALL BE IN ACCORDANCE WITH AISC 360-10 AND BS5950
- 2. GRADE OF STEEL SECTION S275JR TO BS EN 10025-2-2004.
- 3. THE MATERIAL WILL BE SUPPLIED WITH APPROPRIATE CERTIFICATION OF MANUFACTURING RECORDS
- 4. STEEL SECTION SHALL BE ROLLED TO COMPLY WITH THE FOLLOWING STANDARDS:
 - UC's , UB's , PFC'S IN ACCORDANCE TO BS4- PART 1:2004 (Grade 37)
 - ROLLED HOLLOW SECTION: BS EN 10210-2 (Grade 37)
 - ANGLE: BS EN 10056-1 (Grade 37)
 - PLATES: BS EN 10029 (Grade 37)
- 5. ALL EXPANSION TYPE ANCHOR BOLTS SHALL BE OF HEIGHT TENSILE CHROME COATED CARBON STEEL.
- 6. ALL STEEL PLATE AND PIPES IN CONTACT WITH CONCRETE SHALL BE HOT DIP GALVANIZED ACCORDING TO BS 729
- 7. PIPES SLEEVES SHALL BE HOT DIP GALVANIZED CARBON STEEL.
- 8. LENGTH OF INCLINED MEMBERS AND SHARP OF GUSSET PLATE SHALL BE CHECKED AND VERIFIED
- 9. UNCLES OTHER STATED STRUCTURAL STEEL WELDS SHALL BE 5 MM CONTINUOUS FELID WELD. ALL BUTT WED SHALL BE FULL PENETRATION. TESTING OF WELDS SHALL BE ACCORDING TO BS EN 288.
- 10. ALL STEEL SECTION, PLATES AND OTHER STEEL PARTS SHOULD BE PAINTED BY ONE LAYER OF ANTI-RUST PAINT AND TWO LAYERS OF GOOD QUALITY FATTY PIGMENTS UNDER SUPERVISION OF RESIDENT ENGINEER.

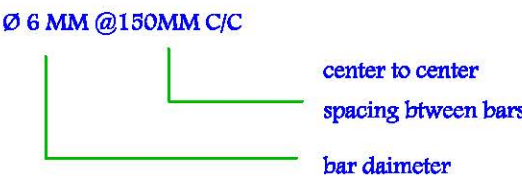
- 11. WHEN FULL LENGTH FILLET WELDS ARE REQUIRED ON BOTH SIDES OF A PART OF MEMEBER, THE ENDS OF THESES WELDS SHALL, WHERE PRACTICAL BE RETURNED.

- 12. ALL FILLET WELDING THICKNESS SHALL BE 5 MM OR EQUAL TO 0.75 TIMES OF THICKNESS OF THINNER PARTS, UNLESS OTHERWISE SPECIFIED BY WELDING CODE.

WELDING PROCEDURE AND SEQUENCES SHALL BE PLANNED TO MINIMIZE WELD SHRINKAGE THAT COULD RESULTS IN LAMELLAR TEARING.

III- CONCRETE WORKS:

- 1. DESIGN CALCULATIONS ARE BASED ON DESIGN METHODS IN ACCORDANCE WITH ACI 318 -2014
- 2. COMPRESSIVE STRENGTH OF CONCRETE SHOULD BE TESTED USING STANDARD CUBES (15X15X15) Cm. Fcu = 35 N/mm2. ALSO SLUMP TEST SHOULD BE PERFORMED ON SITE BEFORE ANY CONCRETE POURING.
- 3. SULPHATE RESISTING PORTLAND CEMENT (TYPE V) IS TO BE USED FOR ALL CONCRETE WORKS IN CONTACT WITH SOIL AND LIQUID CONTAINING STRUCTURES.
- 4. DEFORMED REINFORCING STEEL BARS OF A MINIMUM YIELD STRENGTH OF 460 N/mm ARE TO BE USED CONFORMING TO ASTM 616 & 615 .



- 5. 95% COMPACTED TOW LAYERS SUB BASE TYPE B SHOULD BE PLACED UNDER APPROACH SLABS (20 CM LAYER THICKNESS).
- 6. BACKFILLING OF ALL AROUND THE STRUCTURES SHOULD BE WITH GOOD CLEAN & WELL COMPACTED SOIL.
- 7. WATER PROOFING TO BE PROVIDED ON ALL CONCRETE SURFACES IN CONTACT WITH GROUND AND BACKFILLING.

REVISION	INITIAL	DATE:
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EMPLOYER:

CONSULTANT:

PROJECT:

VTC Training Workshops

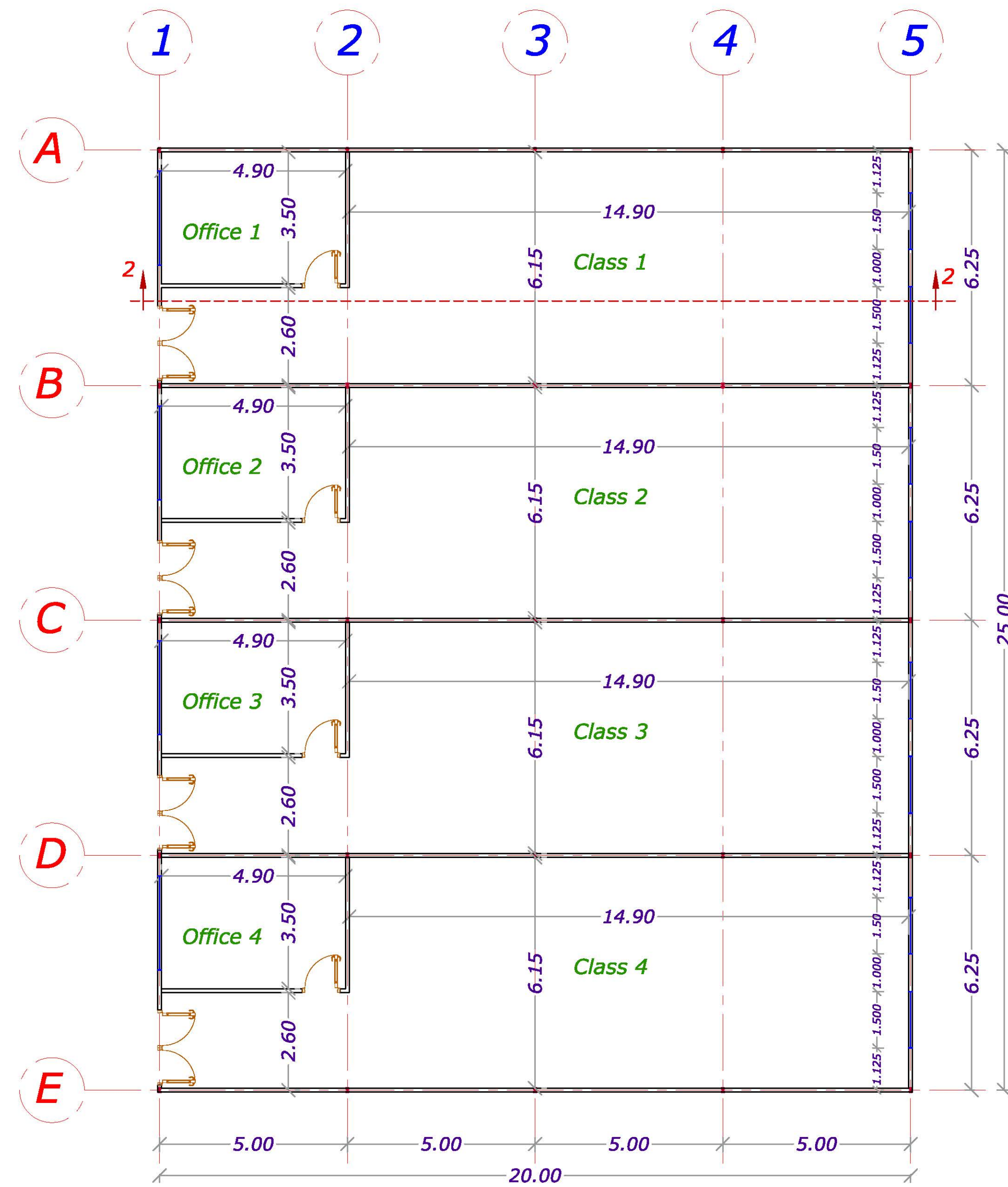
SHEET CONTENT:
General Structural Notes

Designed By:

Checked By: Drawn By:

Approved By: Scale @ A1: Date: 7-3-2021

Revision No:	Drawing No:
Rev. 01	STR-01



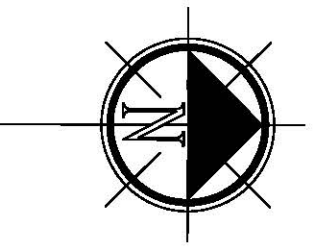
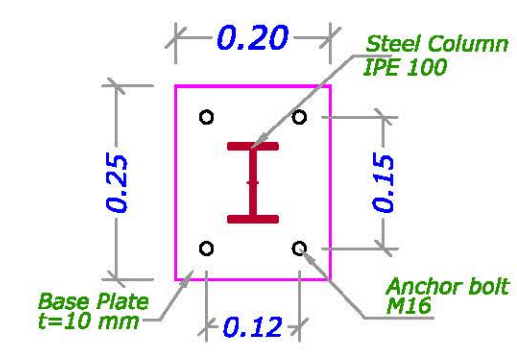
The diagram shows a five-bay bridge with the following dimensions and specifications:

- Span Lengths:** Each of the five spans is 5.00 m long, for a total bridge length of 20.00 m.
- Bridge Width:** The total width of the bridge is 2.20 m.
- Deck Thickness:** The thickness of the concrete deck is 0.10 m.
- Abutment Height:** The height of the abutments is 3.80 m.
- Materials and Construction:**
 - RC $t = 20$ cm, C/30 with double BRC layer of $8\text{mm} \times 200$ mm c/c.
 - Nylon sheet.
 - Subgrade: 15 cm thick, Compacted to 90%.
 - Well Compacted Soil.

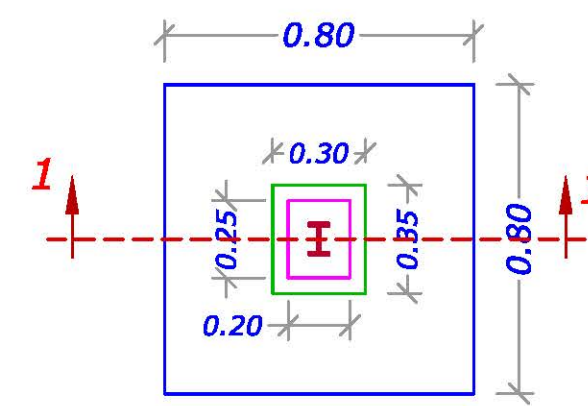
The elevation drawing shows a building facade with four bays, labeled A, B, C, and D, and a fifth bay labeled E. The total width is 25.00m, and the height is 4.00m. Each bay is 6.25m wide. The facade features windows and doors. A callout indicates 'Sandwich Panel Wall thickness t= 10 cm'.

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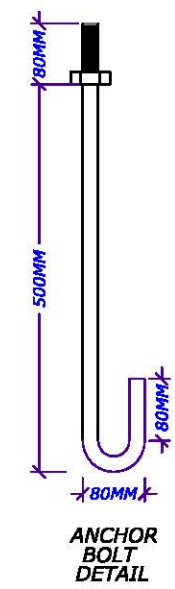
Arch 01



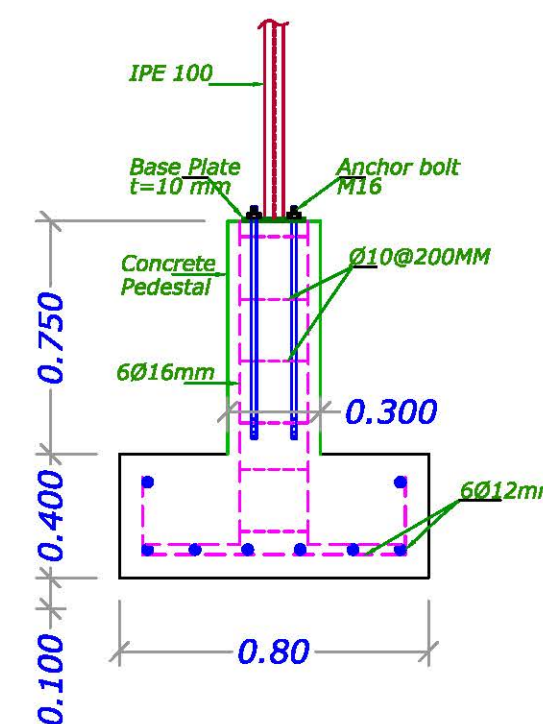
TOP VIEW
Scale 1:10



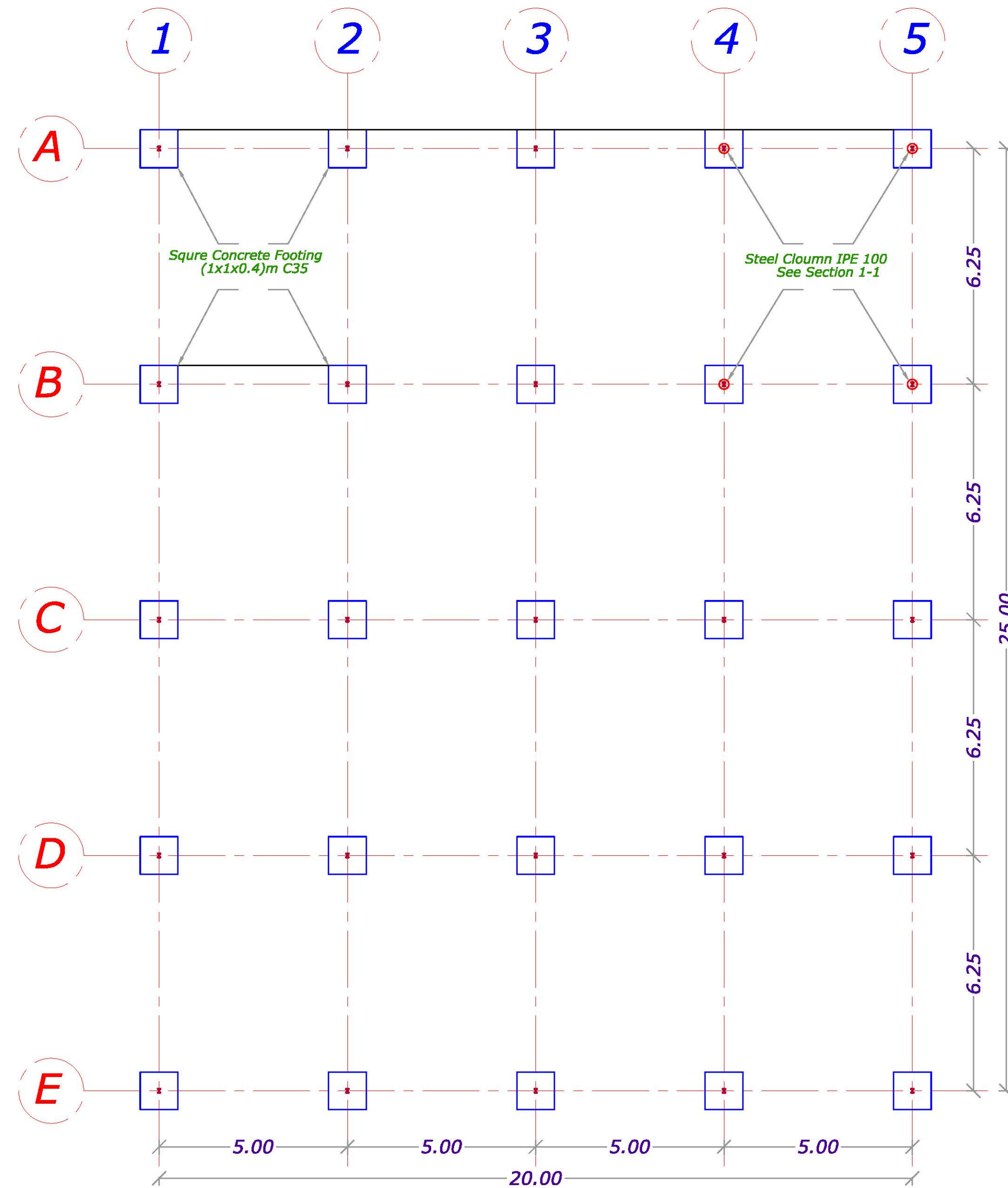
Foundation Plan
Scale 1:25



ANCHOR BOLT
DETAIL



Section 1-1
Scale 1:25



Foundation Plan
Scale 1:100

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EMPLOYER:

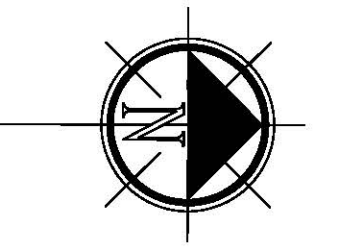
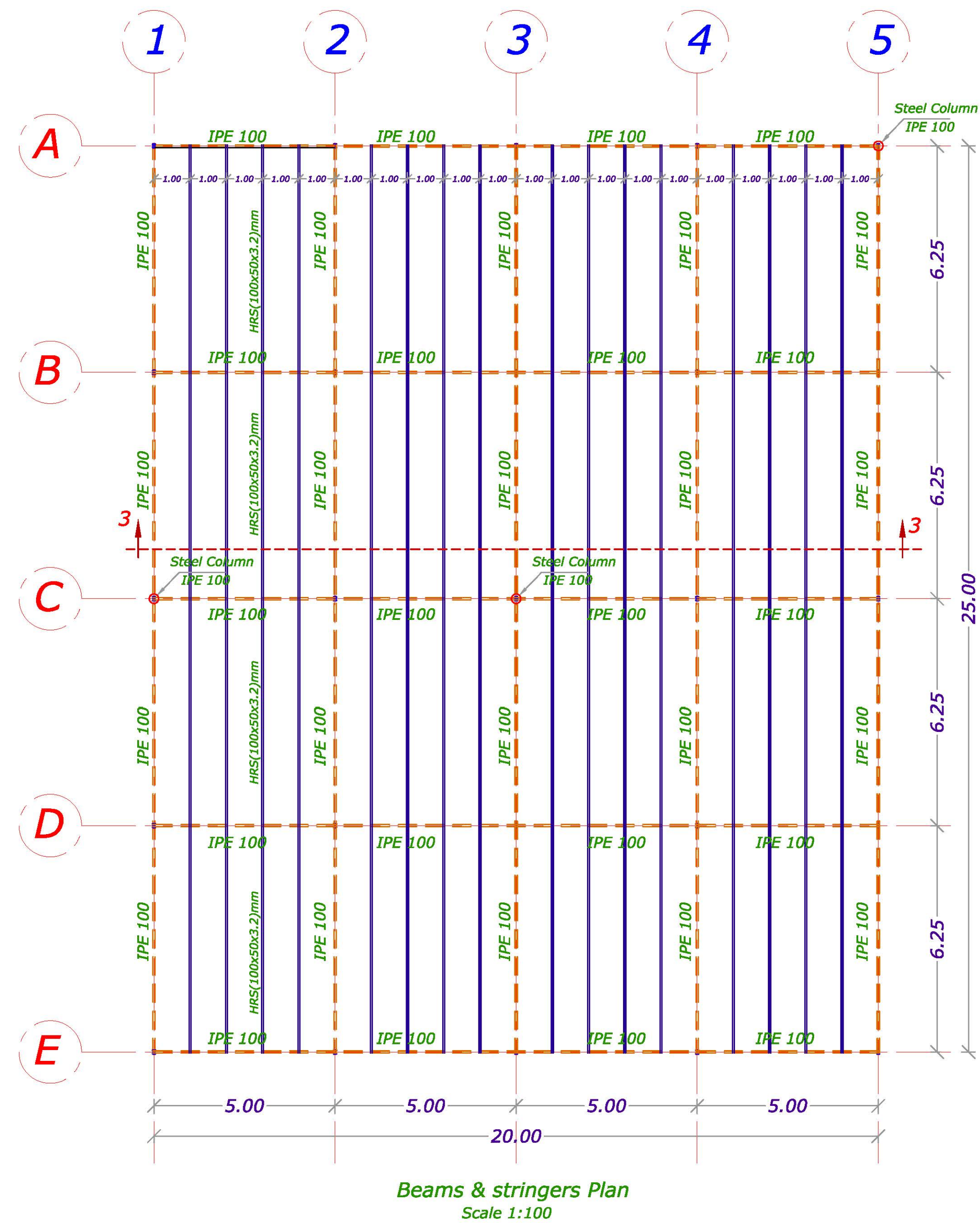
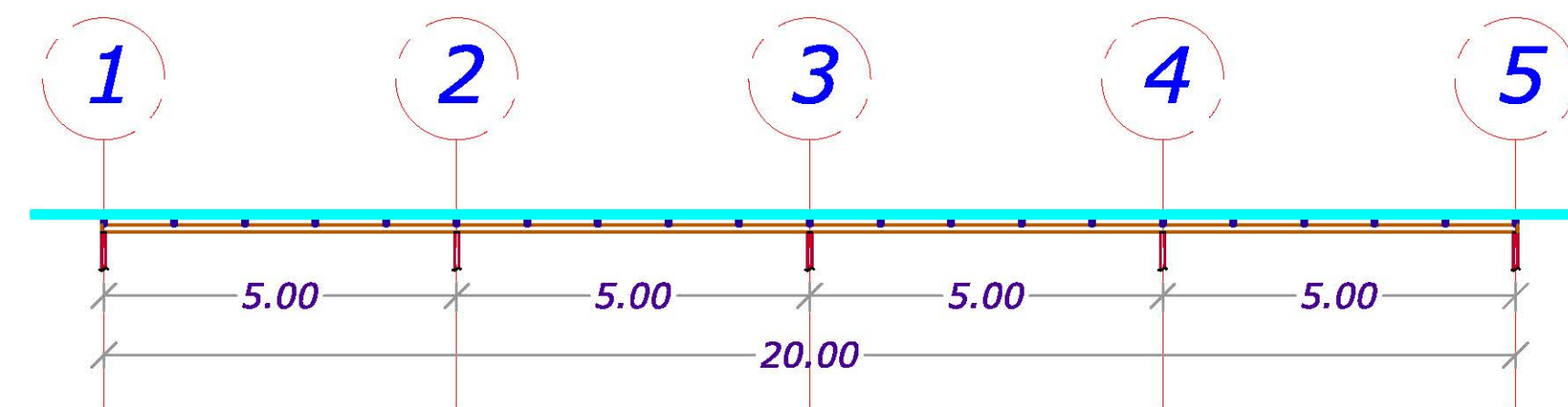
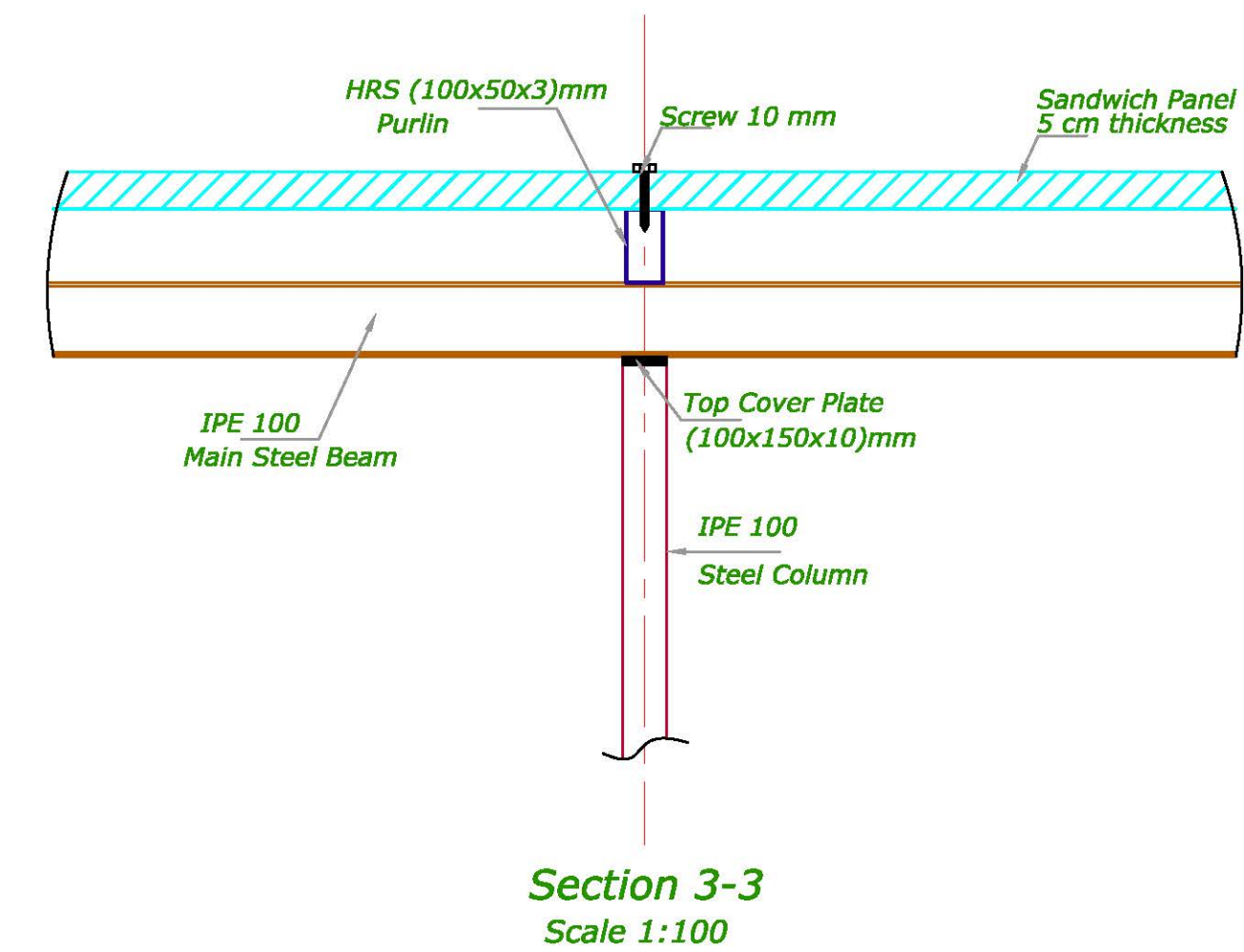
CONSULTANT:

PROJECT:
VTC Training Workshops

SHEET CONTENT:
**Foundation Plan
Structural Details**

Designed By:	Drawn By:
Checked By:	Scale @ A1:
Approved By:	Date: 7-3-2021

Revision No:	Drawing No:
Rev. 01	STR-02



	REVISION	INITIAL	DATE:

EMPLOYER:

CONSULTANT:

PROJECT:
VTC Training Workshops

SHEET CONTENT:
Structural Frame Plan

Designed By:	Drawn By:
Checked By:	Scale @ A1:
Approved By:	Date:
Revision No:	Drawing No:

Rev. 01 **STR-03**



