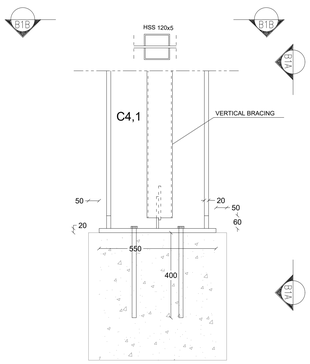
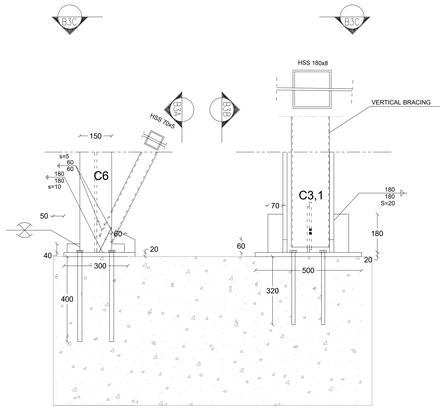
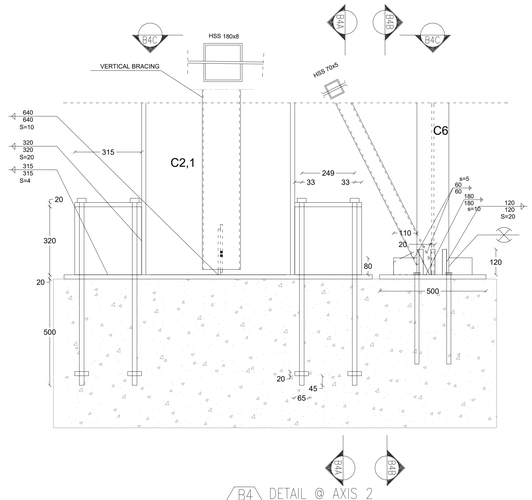


B1 DETAIL @ AXIS 2
SCALE 1:10



B3 DETAIL @ AXIS 2
SCALE 1:10



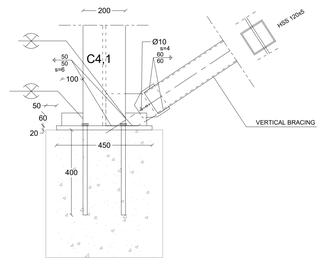
B4 DETAIL @ AXIS 2
SCALE 1:10

TABLE OF SECTIONS

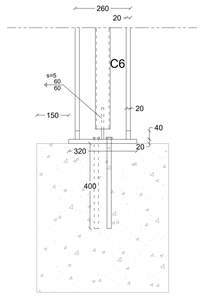
COLUMN	SECTION
C1,1	500X15/240X20
C1,2	500X15/140X10
C1,3	500X15/200X20
C2,1	680X20/420X20
C2,2	680X20/400X20
C2,3	680X20/300X20
C2,4	400X15/200X20
C3,1	200X10/260X20
C3,2	160X10/180X20
C3,3	220X10/250X20
C3,4	180X10/250X20
C4,1	440X15/200X20
C4,2	440X15/220X20
C4,3	440/500X15/240X20
C5,1	300X10/240X20
C5,2	200X10/200X20
C5,3	200X10/200X10
C6	220X10/150X20

NOTES:-

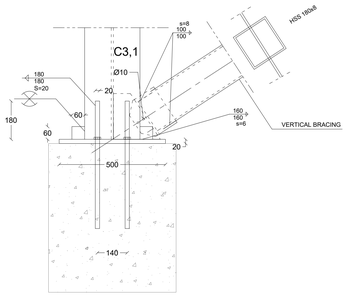
1- ALL BOLTS ARE BEARING BOLTS
2- ALL BOLTS ULTIMATE STRESS ARE 10.9 tons/cm2
3- USED MINIMUM BOLT DIAMETER OF 20 MM
4 ALL BASE PLATES OF THICKNESS 20 MM
EXCEPT THAT OF END GABLE COLUMNS
5- THE PEDESTAL IS WIDER THAN STEEL PLATE
WITH 50 MM IN ALL COLUMN BASES
EXCEPT END GABLE COLUMNS
6- ALL BASE CONNECTIONS ARE SYMETRIC
IN WELD , BOLTS AND STIFFENERS



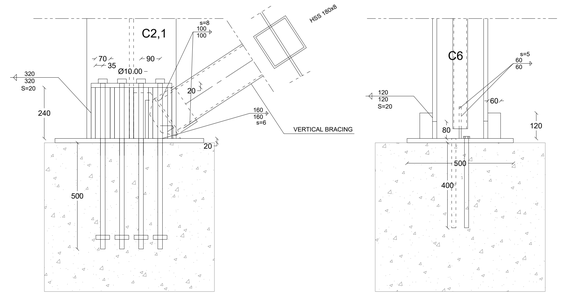
B1A DETAIL @ AXIS 2
SCALE 1:10



B3A DETAIL @ AXIS 2
SCALE 1:10

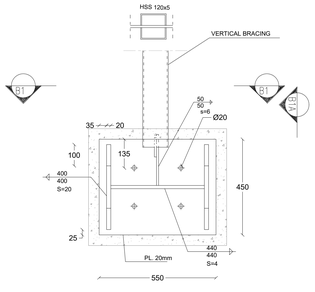


B3B DETAIL @ AXIS 2
SCALE 1:10

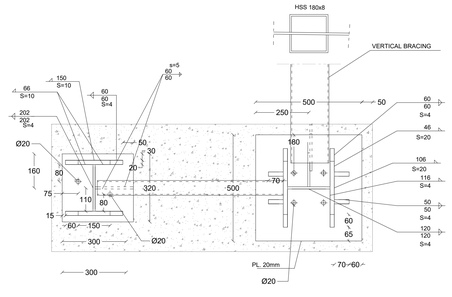


B4A DETAIL @ AXIS 2
SCALE 1:10

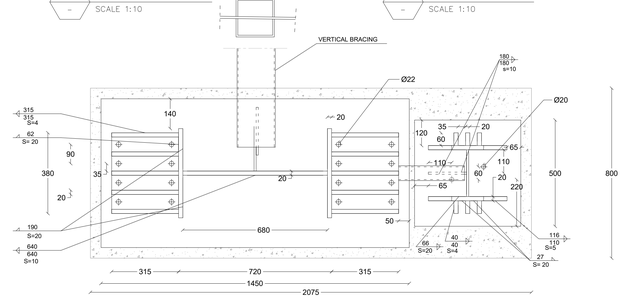
B4B DETAIL @ AXIS 2
SCALE 1:10



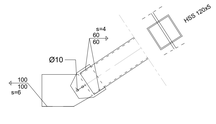
B1B DETAIL @ AXIS 2
SCALE 1:10



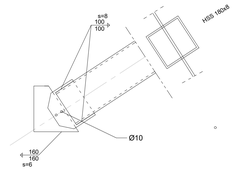
B3C DETAIL @ AXIS 2
SCALE 1:10



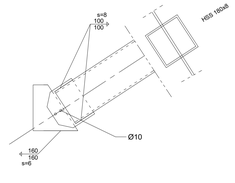
B4C DETAIL @ AXIS 2
SCALE 1:10



B1 VERTICAL BRACING DETAIL @ AXIS 2
SCALE 1:10



B3 VERTICAL BRACING DETAIL @ AXIS 2
SCALE 1:10



B4 VERTICAL BRACING DETAIL @ AXIS 2
SCALE 1:10

CAIRO UNIVERSITY
FACULTY OF ENGINEERING
FOURTH YEAR CIVIL
STEEL PROJECT

UNIT #:
INDUSTRIAL BUILDING 5A-1

DESIGN BY:
AHMED MOHAMED YASSIN YOUNES

DRAWING TITLE:
BASE CONNECTIONS

DWG. NO. 012

SCALE 1:10