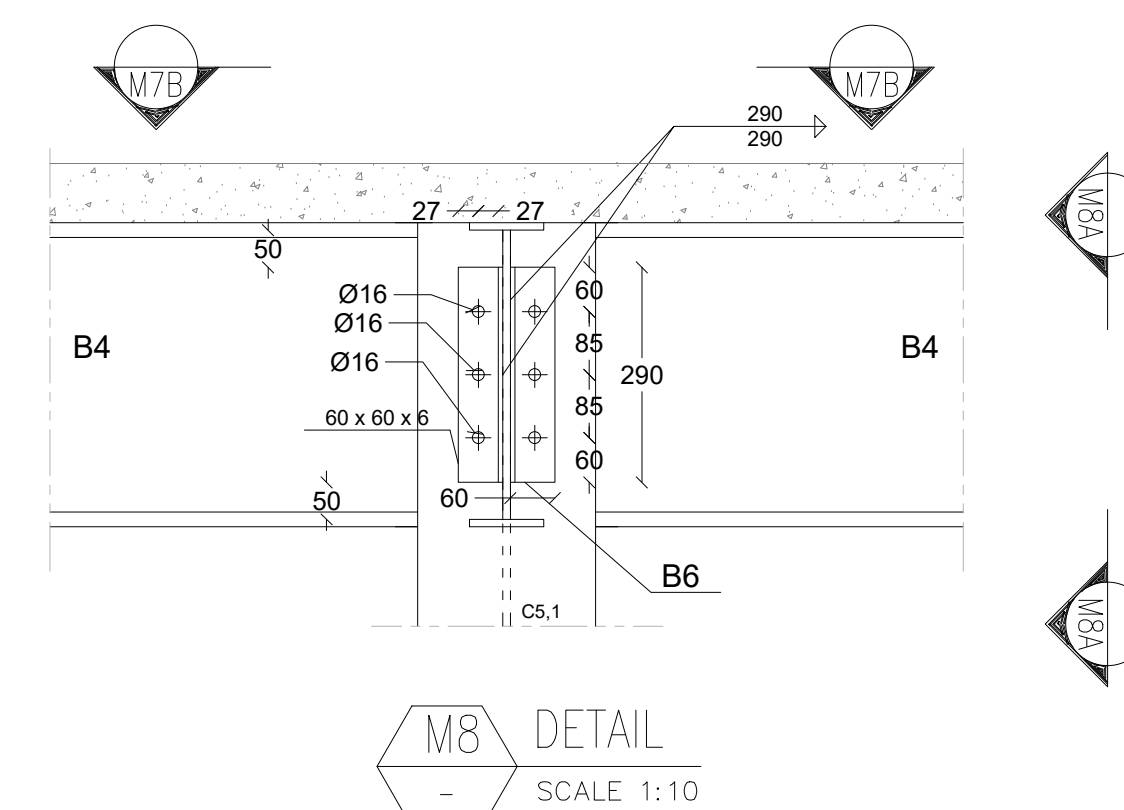
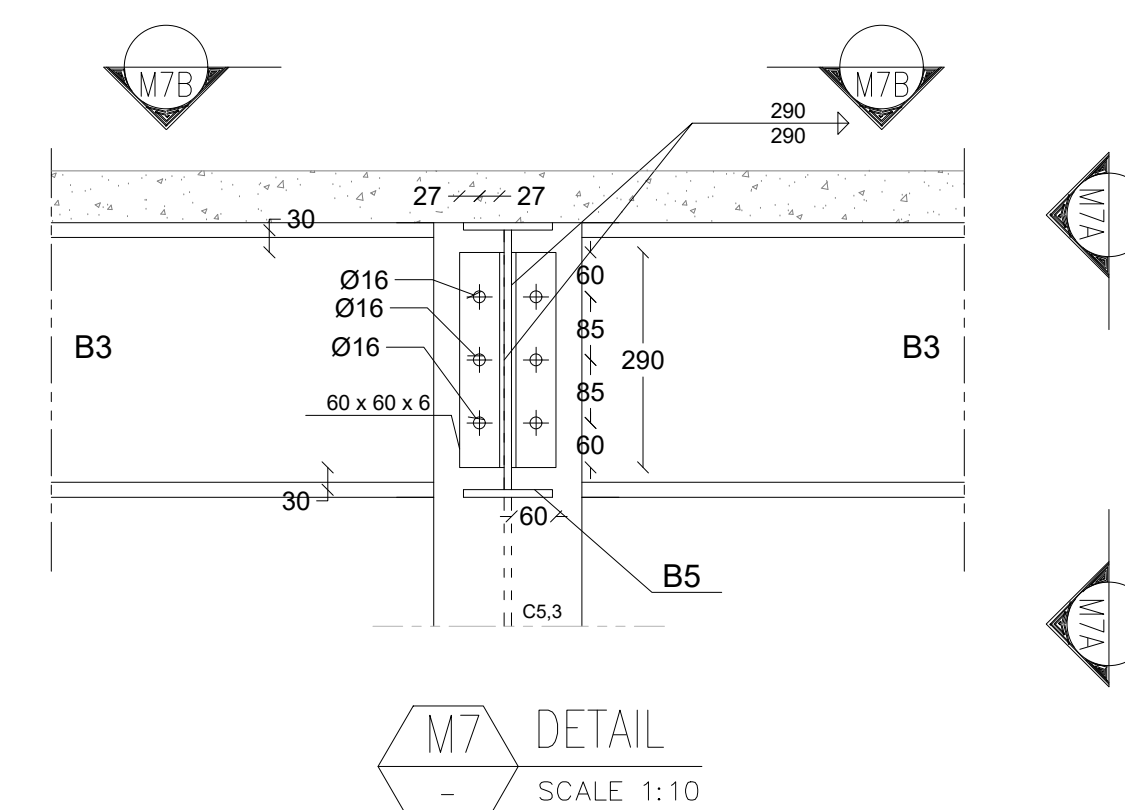
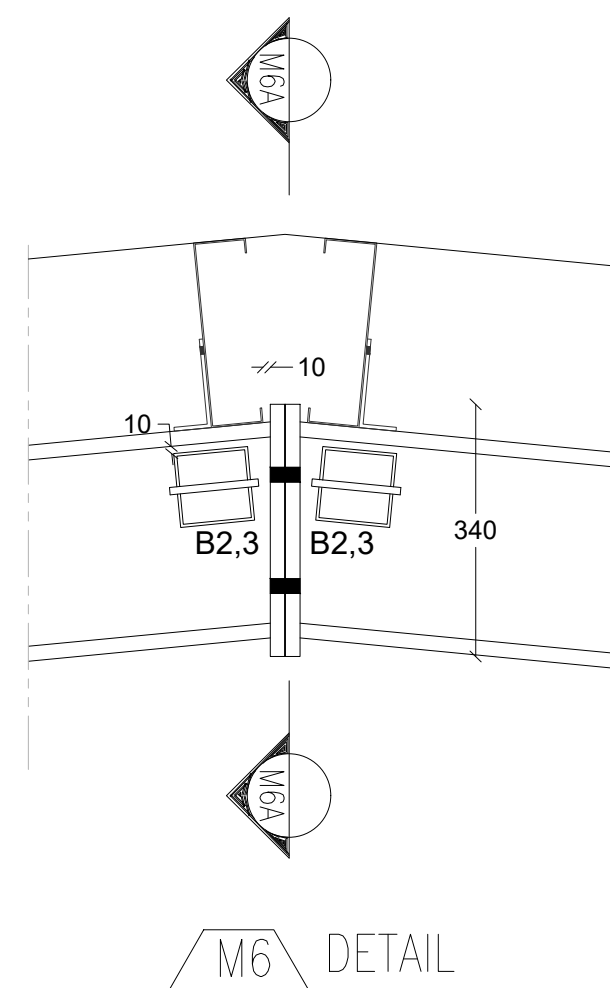
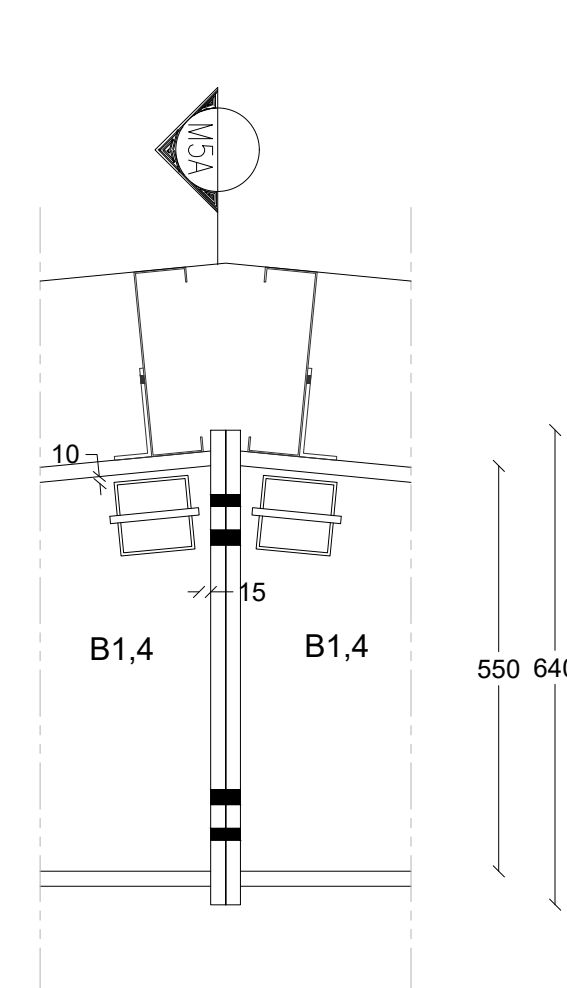


M1A DETAIL
SCALE 1:10

M2A DETAIL
SCALE 1:10

M3A DETAIL
SCALE 1:10

M4A DETAIL
SCALE 1:10

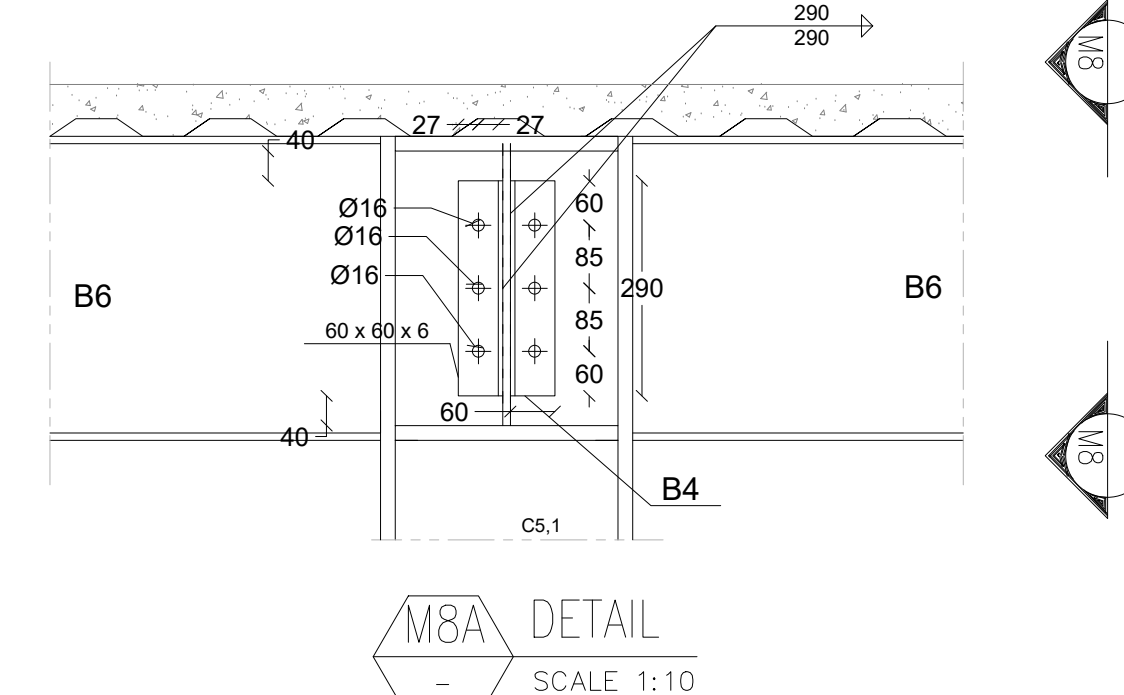
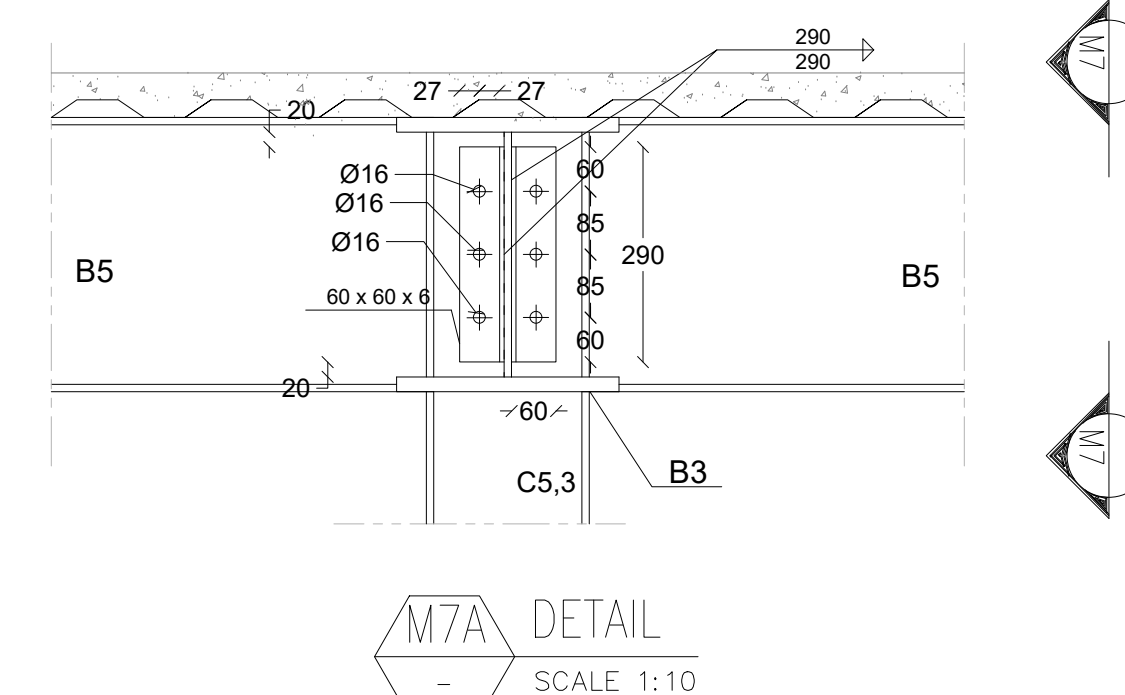
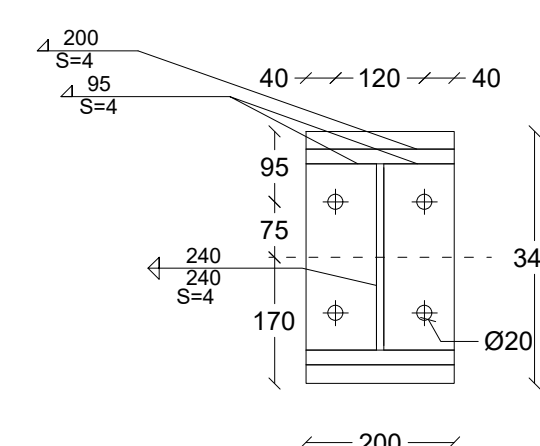
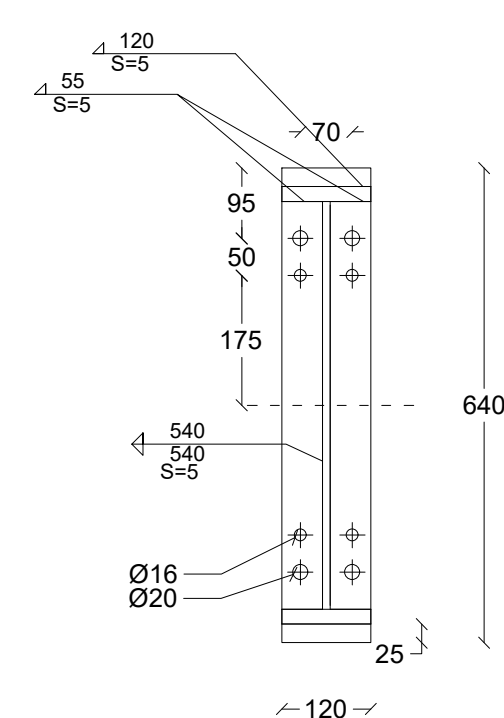


M5 DETAIL
SCALE 1:10

M6 DETAIL
SCALE 1:10

M7 DETAIL
SCALE 1:10

M8 DETAIL
SCALE 1:10

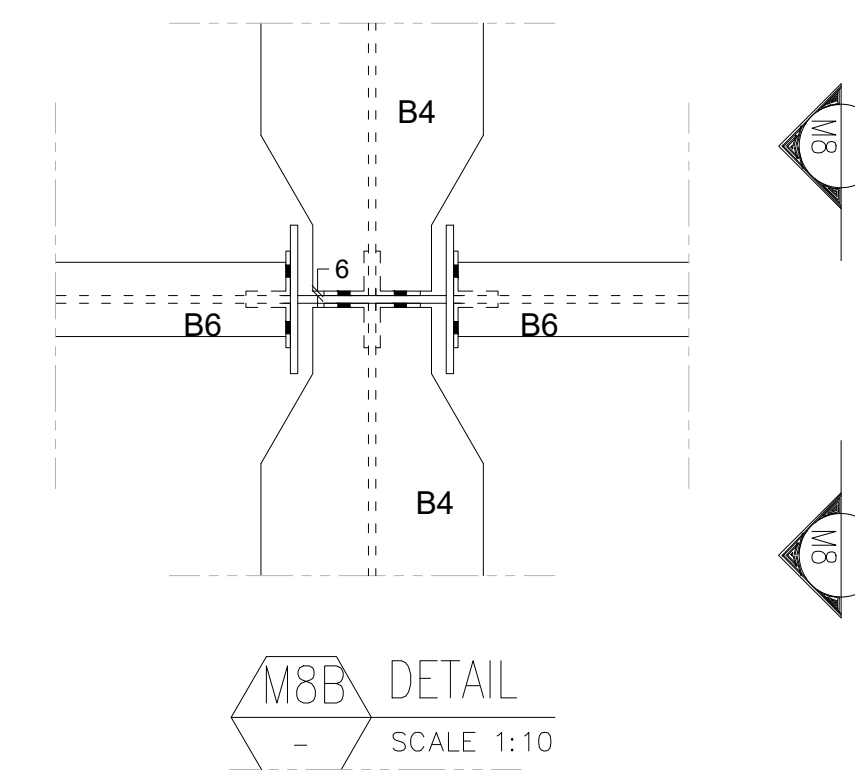
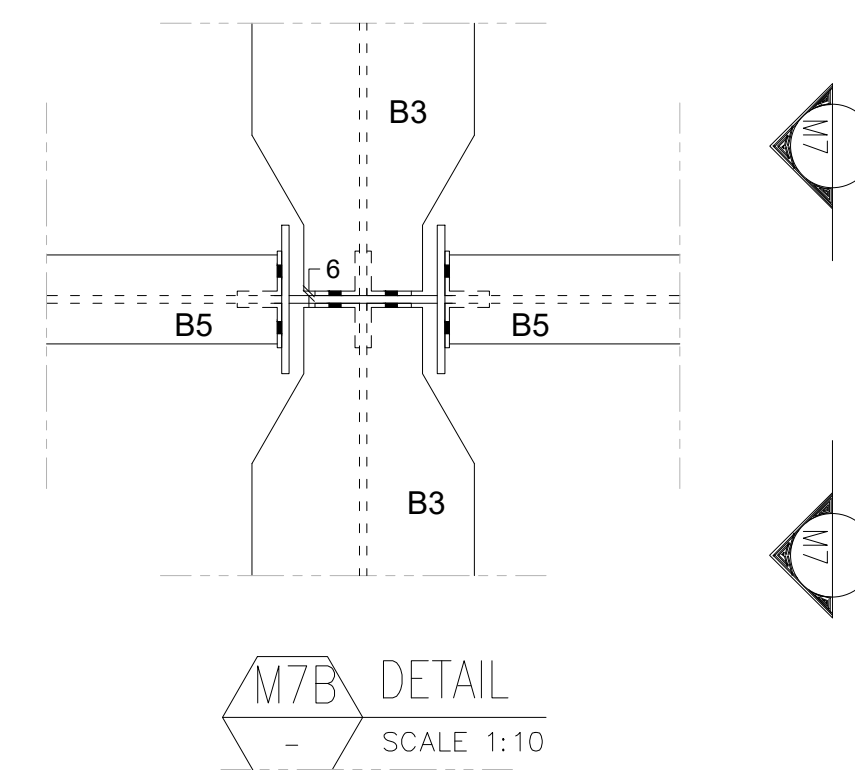


M5A DETAIL
SCALE 1:10

M6A DETAIL
SCALE 1:10

M7A DETAIL
SCALE 1:10

M8A DETAIL
SCALE 1:10



M7B DETAIL
SCALE 1:10

M8B DETAIL
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
B1,1	600/300X10/200X20
B1,2	300X10/160X20
B1,3	300X10/120X20
B1,4	300/550X10/120X20
B2,1	700/380X10/240X20
B2,2	380X10/210X20
B2,3	250X10/200X20
B2,4	250X10/200X20
B2,5	380X10/210X20
B3	330X10/300X20
B4	370X10/300X20
B5	350X10/120X10
B6	390X10/100X10

NOTES:-

- 1- ALL BOLTS ARE FRICTION BOLTS EXCEPT TRUSS BOLTS
2- ALL BOLTS ULTIMATE STRESS ARE 10.9 tons/cm²

CAIRO UNIVERSITY
FACULTY OF ENGINEERING
FOURTH YEAR CIVIL
STEEL PROJECT

UNIT #:

INDUSTRIAL BUILDING 5A-1

DESIGN BY:
AHMED MOHAMED YASSIN YOUNES

DRAWING TITLE:
MAIN FRAME CONNECTIONS

DWG. NO. 009

SCALE 1:10