

C1A
DETAIL
SCALE 1:10

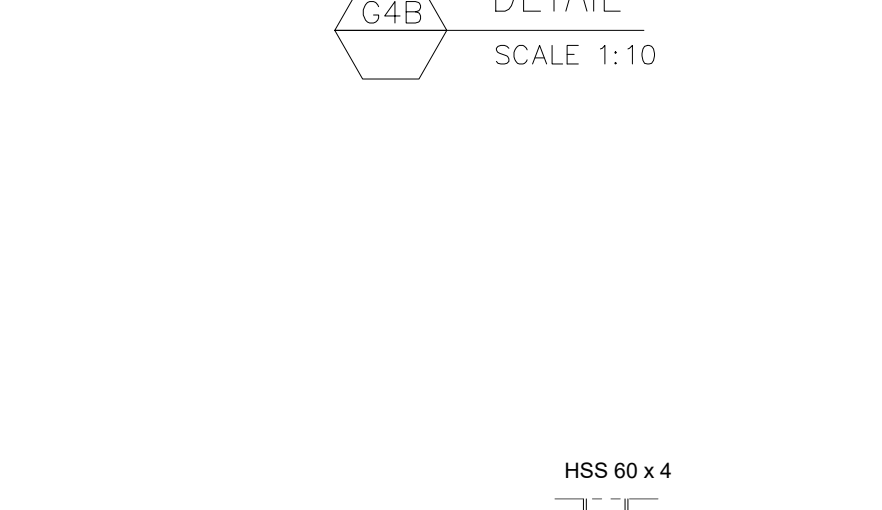
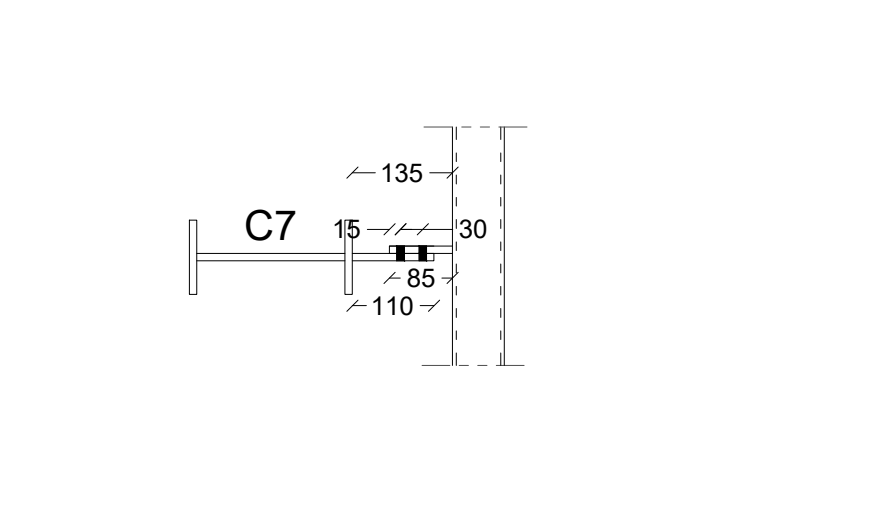
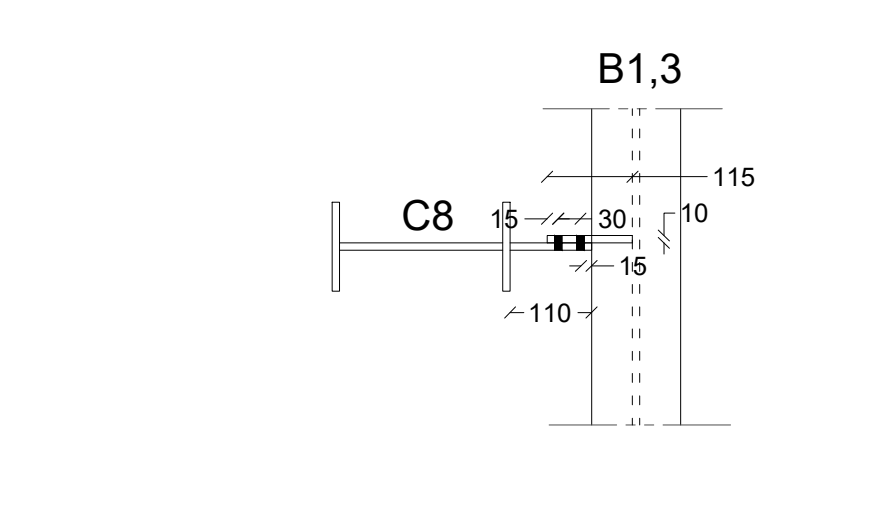
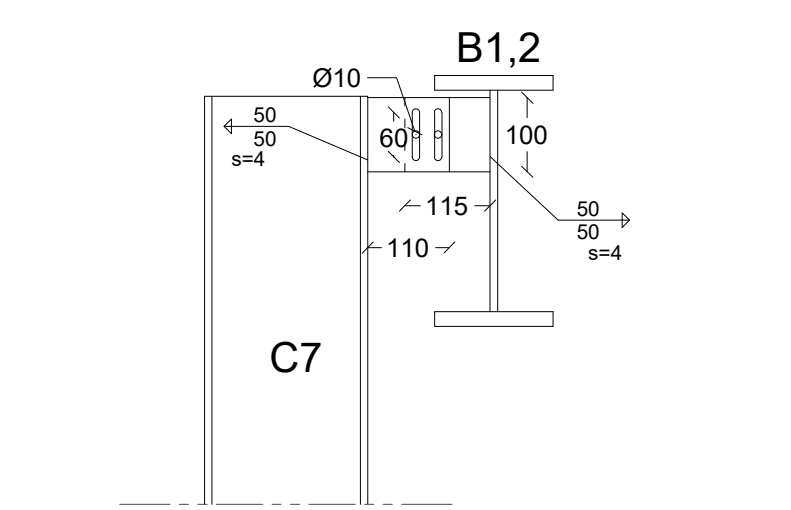
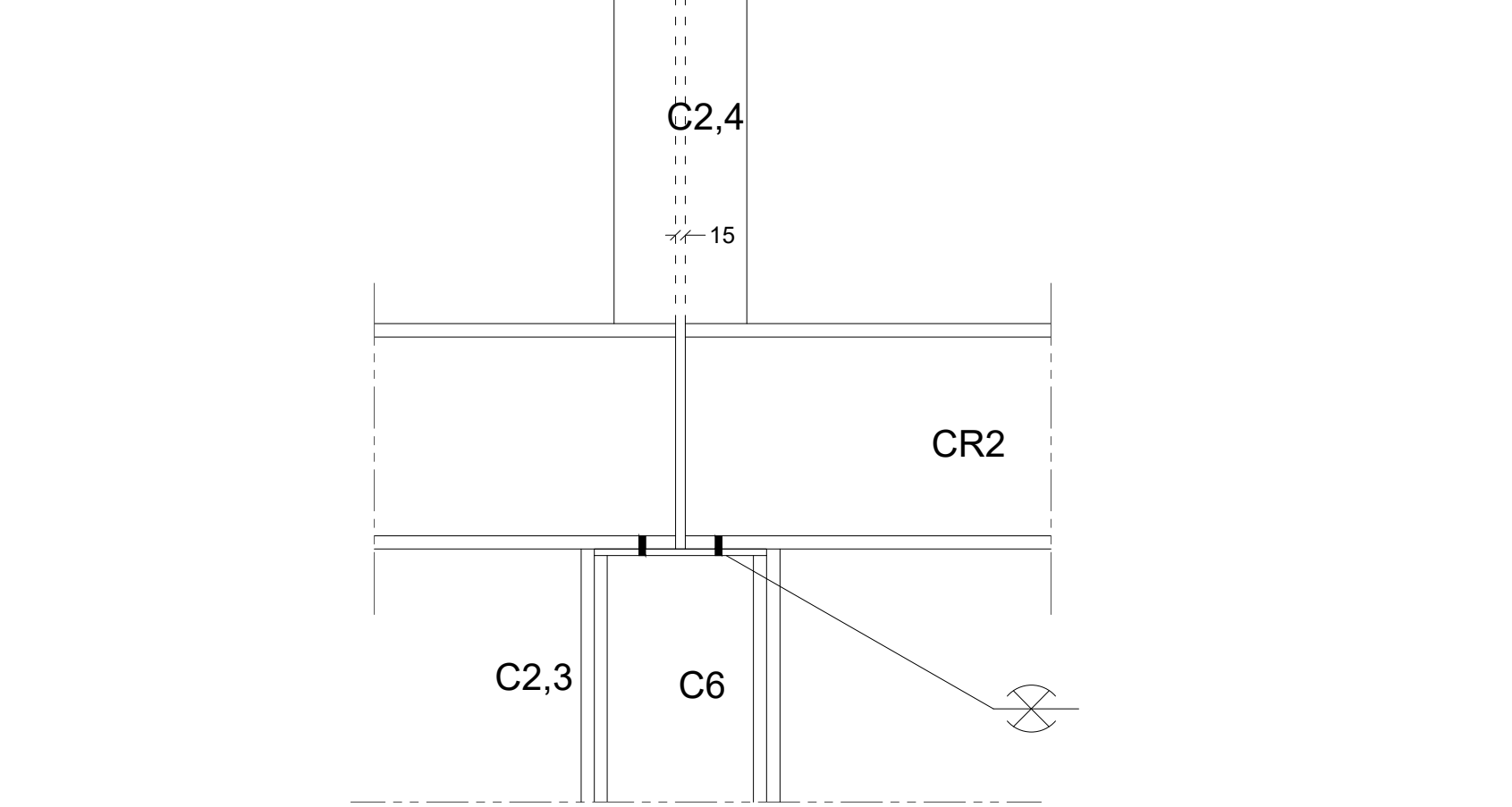
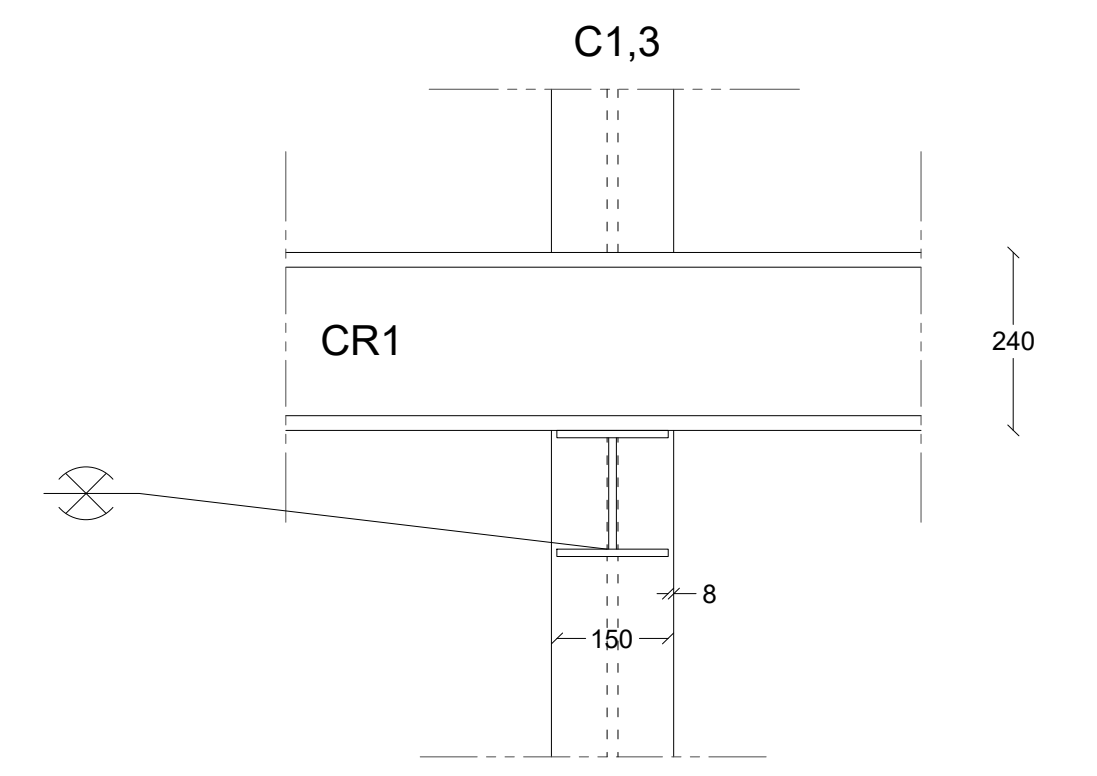
C2A
DETAIL
SCALE 1:10

G1B
DETAIL
SCALE 1:10

G2A
DETAIL
SCALE 1:10

G3A
DETAIL
SCALE 1:10

G4A
DETAIL
SCALE 1:10



C1B
DETAIL
SCALE 1:10

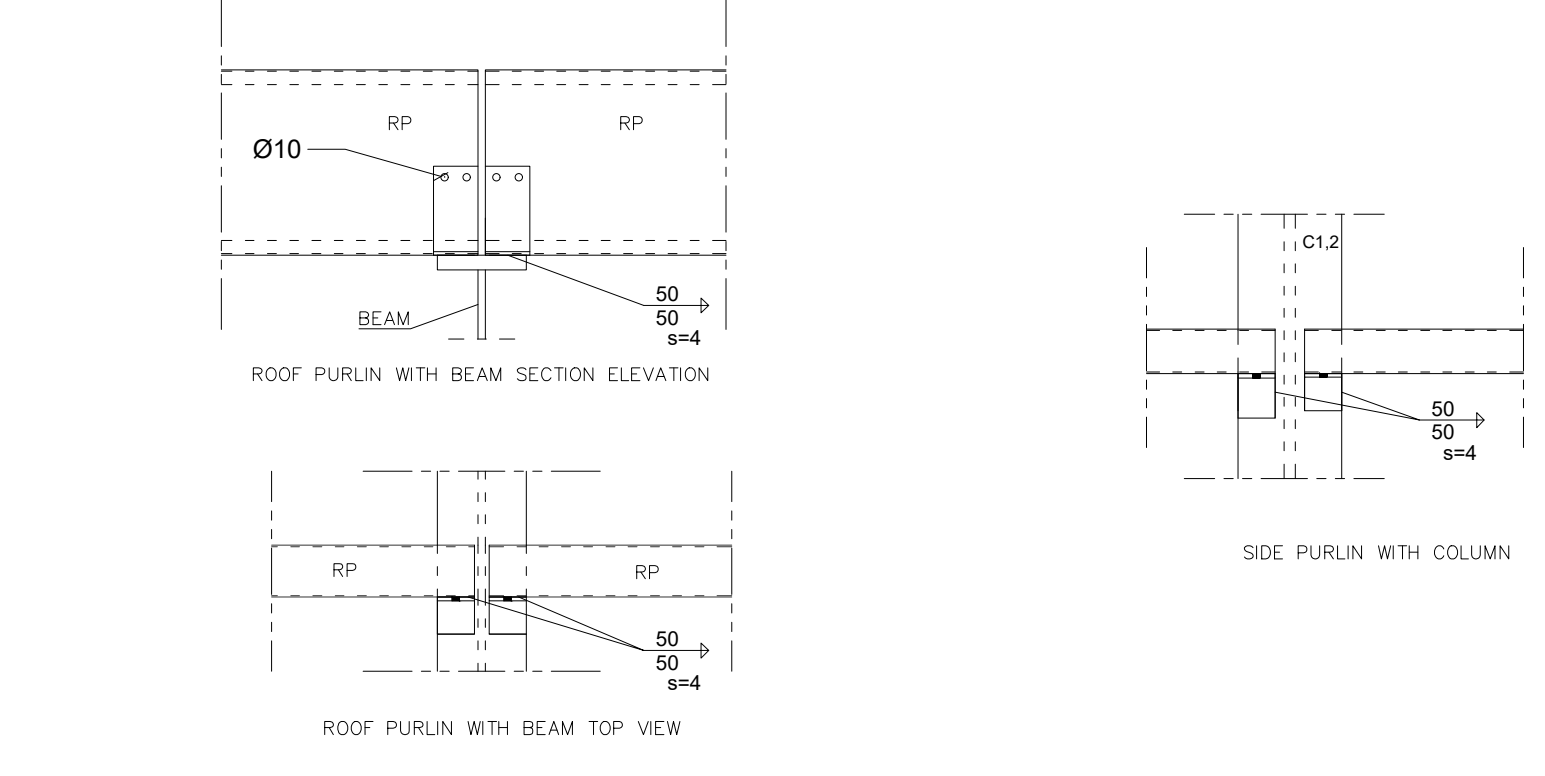
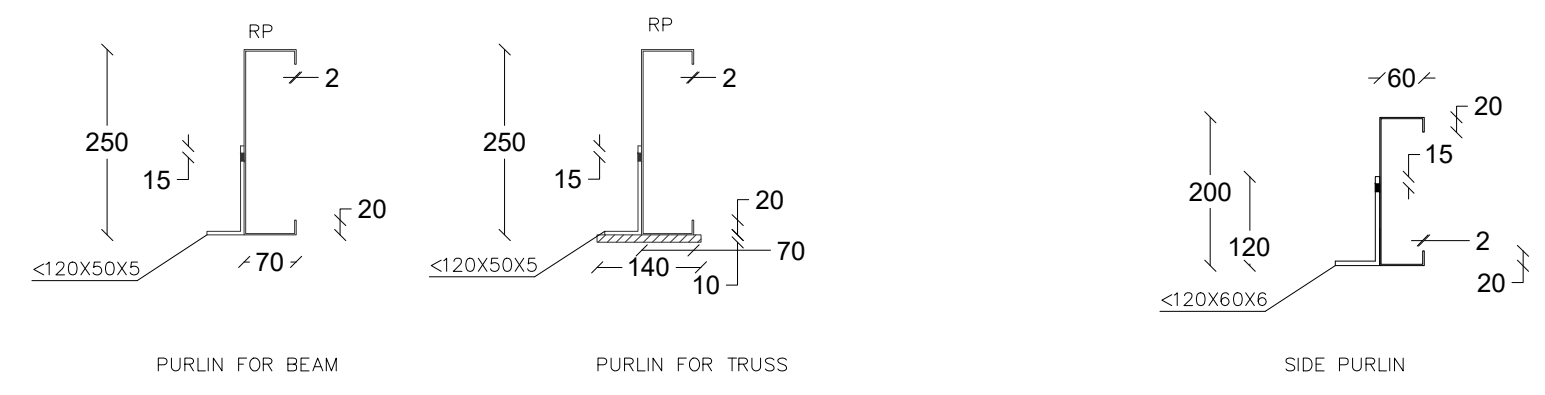
C2B
DETAIL
SCALE 1:10

G1B
DETAIL
SCALE 1:10

G2A
DETAIL
SCALE 1:10

G3A
DETAIL
SCALE 1:10

G4A
DETAIL
SCALE 1:10



C1A
DETAIL
SCALE 1:10

C2A
DETAIL
SCALE 1:10

G1B
DETAIL
SCALE 1:10

G2A
DETAIL
SCALE 1:10

G3A
DETAIL
SCALE 1:10


G4A
DETAIL
SCALE 1:10

NOTES:-

- 1- ALL BOLTS ARE BEARING BOLTS
- 2- ALL BOLTS Grade ARE 10.9 tons/cm2
- 3- USED MINIMUM BOLT DIAMETER OF 10 MM
- 4 ALL GUSSET PLATES THICKNESS ARE 10 MM

TABLE OF SECTIONS

COLUMN	SECTION
BR1	150X10/150X10
CR1	200X10/120X20
CR2	300X10/400X20
C1,3	500X15/165X20
C2,3	680X20/300X20
C2,4	400X15/200X20
C6	220X10/150X20
C7	200X10/100X10
C8	220X10/120X10
RP	ROOF PURLINS
SP	SIDE PURLINS



CAIRO UNIVERSITY
FACULTY OF ENGINEERING
FOURTH YEAR CIVIL
STEEL PROJECT

UNIT #:

INDUSTRIAL BUILDING 5A-1

DESIGN BY:

AHMED MOHAMED YASSIN YOUNES

DRAWING TITLE:

CRANE , END GABLE , PURLINS DETAILS

DWG. NO. 017

SCALE 1:10