

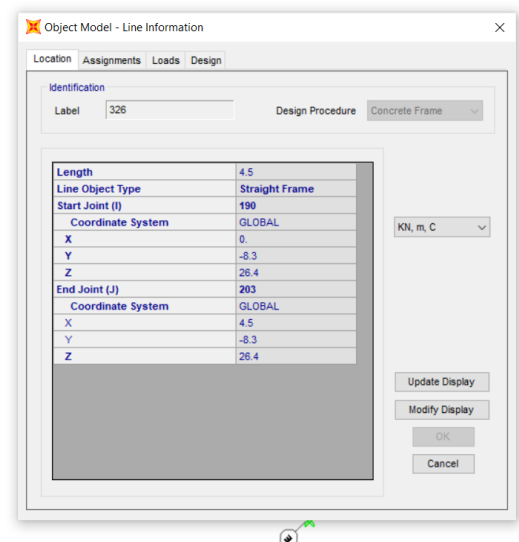
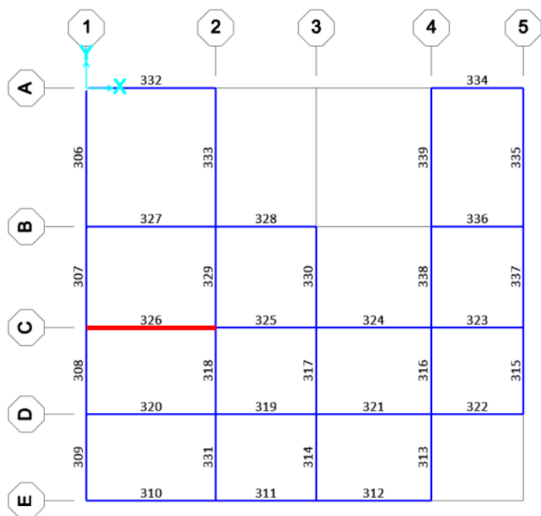
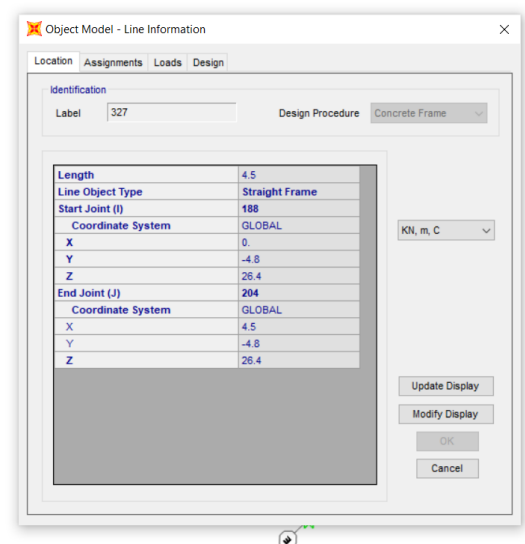
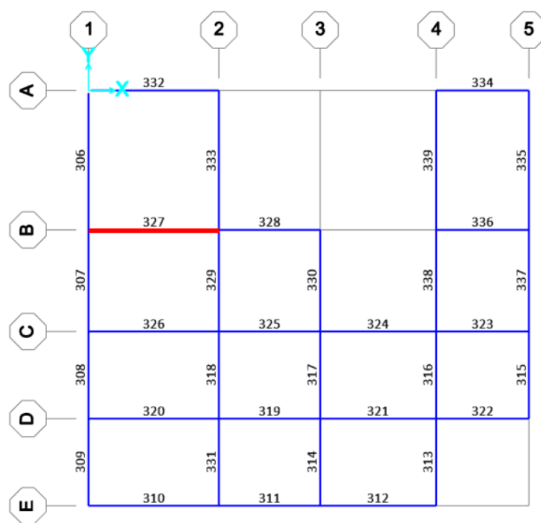
Part C: For the mentioned load combinations, show the locations of the members (along with the member number in the model) where the design forces and moments are observed.

The frames having maximum shear force and bending moments for different load combinations are shown below. We have taken maximum shear force and bending moment as the design value of the respective quantities.

1. Beams with Load Combination 1.5(DL + LL).

Max shear force = 86.58 kN , Corresponding Frame 327

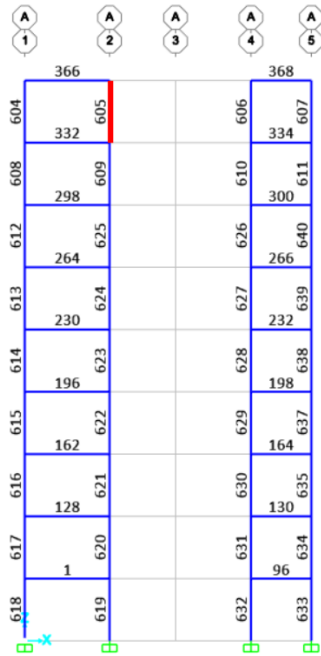
Max moment = 71.915 kN-m , Corresponding Frame 326



2. Columns with Load Combination 1.5(DL + LL).

Max shear force = 20.146 kN , Corresponding Frame 605

Max moment = 36.637 kN-m , Corresponding Frame 605



Object Model - Line Information

Location Assignments Loads Design

Identification

Label: 605 Design Procedure: Concrete Frame

Length	3.3
Line Object Type	Straight Frame
Start Joint (I)	206
Coordinate System	GLOBAL
X	4.5
Y	0.
Z	26.4
End Joint (J)	229
Coordinate System	GLOBAL
X	4.5
Y	0.
Z	29.7

KN, m, C

Update Display

Modify Display

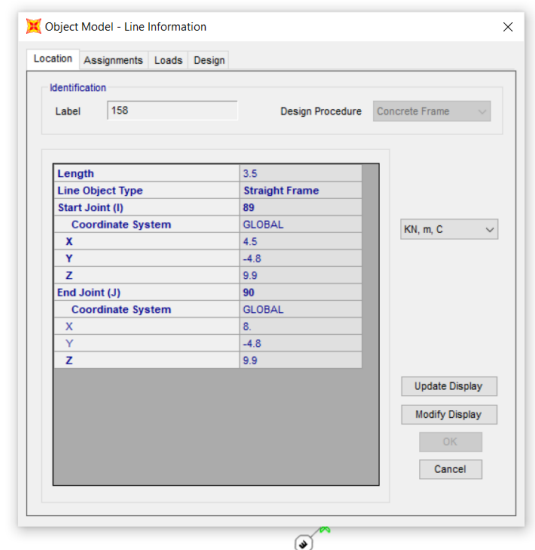
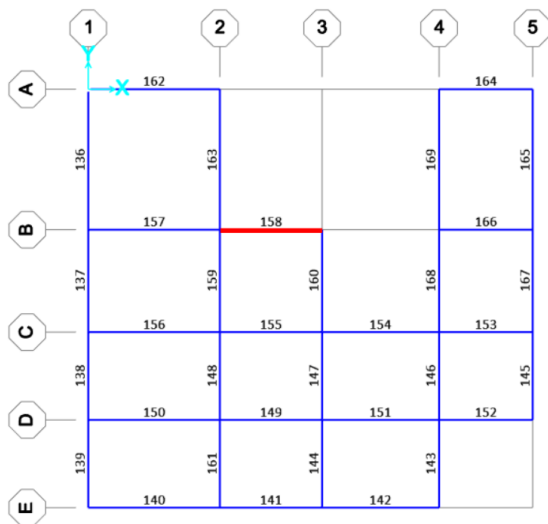
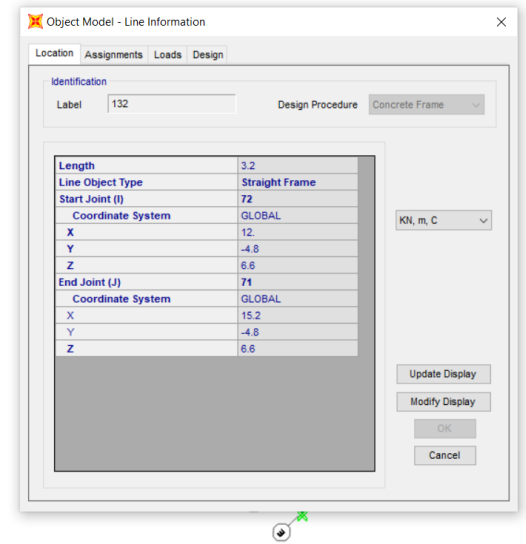
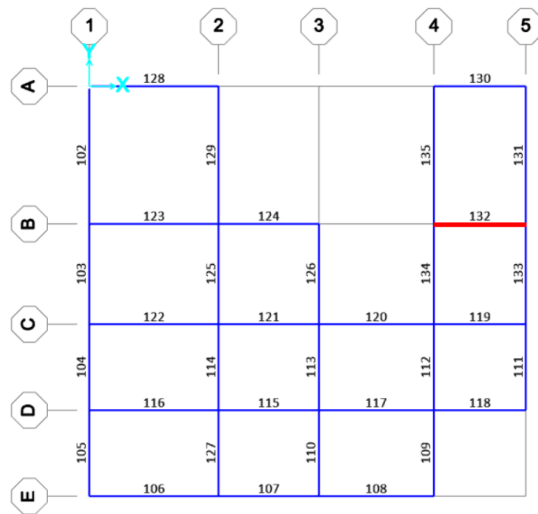
OK

Cancel

3. Beams with Load Combination 1.2(DL + LL + HL-X).

Max shear force = 102.731 kN , Corresponding Frame 132

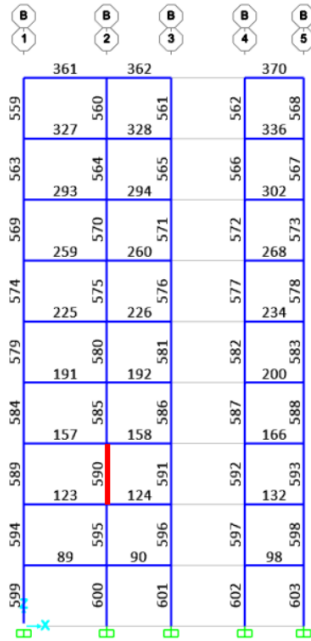
Max moment = 132.195 kN-m , Corresponding Frame 158



4. Columns with Load Combination 1.2(DL + LL + HL-X).

Max shear force = 71.44 kN , Corresponding Frame 590

Max moment = 140.425 kN-m , Corresponding Frame 600



Object Model - Line Information

Location Assignments Loads Design

Identification

Label: 590 Design Procedure: Concrete Frame

Length	3.3
Line Object Type	Straight Frame
Start Joint (I)	66
Coordinate System	GLOBAL
X	4.5
Y	-4.8
Z	6.6
End Joint (J)	89
Coordinate System	GLOBAL
X	4.5
Y	-4.8
Z	9.9

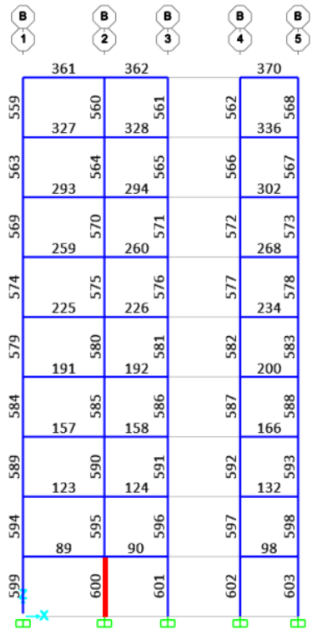
KN, m, C

Update Display

Modify Display

OK

Cancel



Object Model - Line Information

Location Assignments Loads Design

Identification

Label: 600 Design Procedure: Concrete Frame

Length	3.3
Line Object Type	Straight Frame
Start Joint (I)	19
Coordinate System	GLOBAL
X	4.5
Y	-4.8
Z	0.
End Joint (J)	43
Coordinate System	GLOBAL
X	4.5
Y	-4.8
Z	3.3

KN, m, C

Update Display

Modify Display

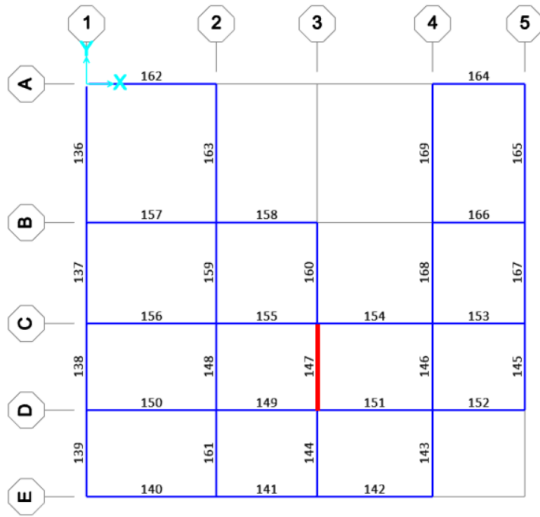
OK

Cancel

5. Beams with Load Combination 1.2(DL + LL + HL-Y).

Max shear force = 89.928 kN , Corresponding Frame 147

Max moment = 104.442 kN-m , Corresponding Frame 163



Object Model - Line Information

Location Assignments Loads Design

Identification

Label 147 Design Procedure Concrete Frame

Length	3.
Line Object Type	Straight Frame
Start Joint (I)	82
Coordinate System	GLOBAL
X	8.
Y	-11.3
Z	9.9
End Joint (J)	86
Coordinate System	GLOBAL
X	8.
Y	-8.3
Z	9.9

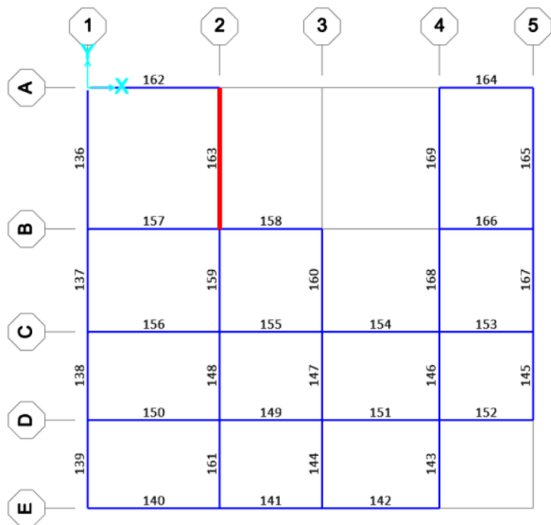
KN, m, C

Update Display

Modify Display

OK

Cancel



Object Model - Line Information

Location Assignments Loads Design

Identification

Label 163 Design Procedure Concrete Frame

Length	4.8
Line Object Type	Straight Frame
Start Joint (I)	89
Coordinate System	GLOBAL
X	4.5
Y	-4.8
Z	9.9
End Joint (J)	91
Coordinate System	GLOBAL
X	4.5
Y	0.
Z	9.9

KN, m, C

Update Display

Modify Display

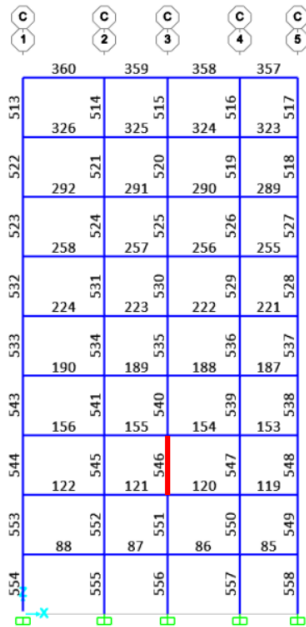
OK

Cancel

6. Columns with Load Combination 1.2(DL + LL + HL-Y).

Max shear force = 54.644 kN , Corresponding Frame 546

Max moment = 112.328 kN-m , Corresponding Frame 556



Object Model - Line Information

Location Assignments Loads Design

Identification

Label 546 Design Procedure Concrete Frame

Length	3.3
Line Object Type	Straight Frame
Start Joint (I)	63
Coordinate System	GLOBAL
X	8.
Y	-8.3
Z	6.6
End Joint (J)	86
Coordinate System	GLOBAL
X	8.
Y	-8.3
Z	9.9

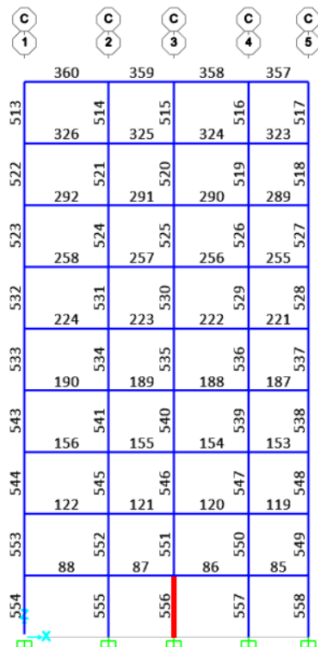
KN, m, C

Update Display

Modify Display

OK

Cancel



Object Model - Line Information

Location Assignments Loads Design

Identification

Label 556 Design Procedure Concrete Frame

Length	3.3
Line Object Type	Straight Frame
Start Joint (I)	16
Coordinate System	GLOBAL
X	8.
Y	-8.3
Z	0.
End Joint (J)	40
Coordinate System	GLOBAL
X	8.
Y	-8.3
Z	3.3

KN, m, C

Update Display

Modify Display

OK

Cancel