



Alumno: Jarib Jahziel Hernández Toledo

Licenciatura: Arquitectura

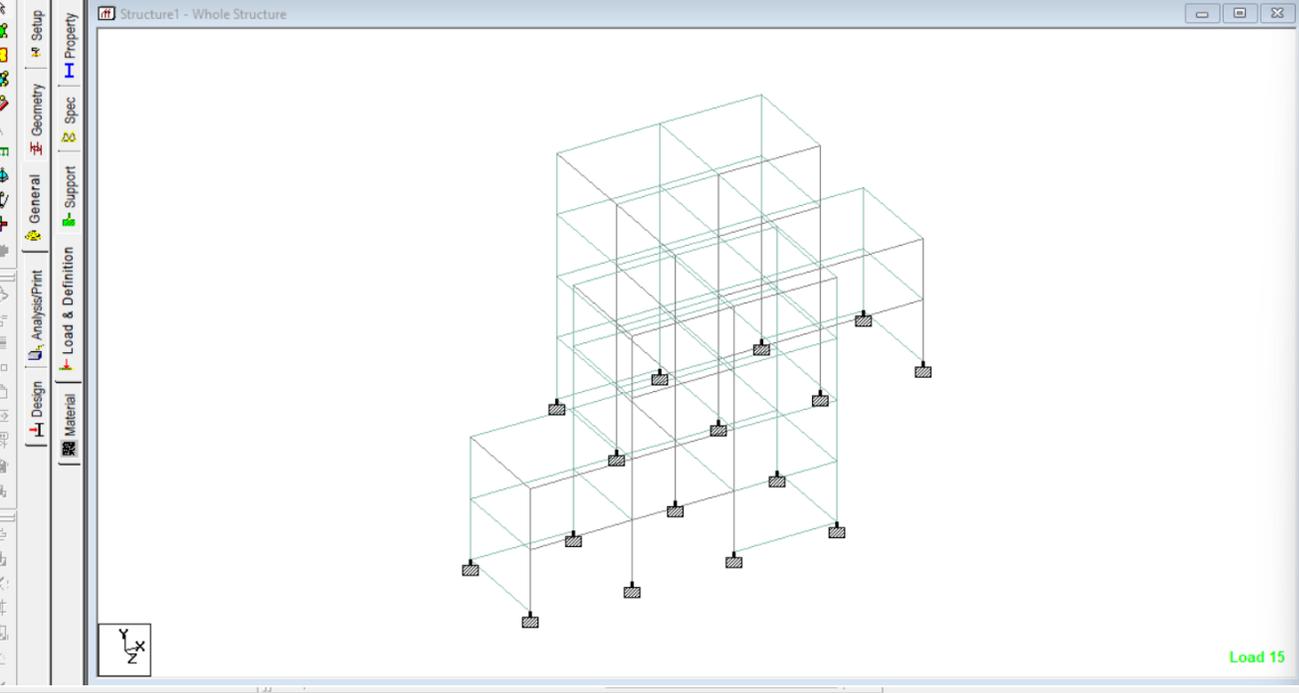
Cuatrimestre: 5

Materia: Análisis de Estructuras

Profesor: García López Pedro Alberto

Actividad: Ejecución

Fecha: 07/04/2024



Load & Definition

- YRANGE 2.5 3.5 FLOAD 170
- YRANGE 5.5 6.5 FLOAD 170
- YRANGE 8.5 9.5 FLOAD 170
- YRANGE 11.5 12.5 FLOAD 170
- YRANGE 11.5 12.5 FLOAD 100
- YRANGE 2.5 3.5 FLOAD 90
- YRANGE 5.5 6.5 FLOAD 90
- YRANGE 8.5 9.5 FLOAD 90
- YRANGE 11.5 12.5 FLOAD 70

Pushover Definitions

- Direct Analysis Definition

Load Cases Details

- 1: SIS X
- 2: SIS Z
- 3: CM
- 4: CVM
- 5: CVA
- 6: 1.3 CM + 1.5 CVM
 - (1.3) x Load 3
 - (1.5) x Load 4
- 7: 1.1 CM + 1.1 CVA + 1.1 SIS X + 0.3 SIS Z
- 8: 1.1 CM + 1.1 CVA + 1.1 SIS X - 0.3 SIS Z
- 9: 1.1 CM + 1.1 CVA - 1.1 SIS X + 0.3 SIS Z
- 10: 1.1 CM + 1.1 CVA - 1.1 SIS X - 0.3 SIS Z
- 11: 1.1 CM + 1.1 CVA + 1.1 SIS Z + 0.3 SIS X
- 12: 1.1 CM + 1.1 CVA + 1.1 SIS Z - 0.3 SIS X
- 13: 1.1 CM + 1.1 CVA - 1.1 SIS Z + 0.3 SIS X

Toggle Load

Assignment Method

- Assign To Selected Entities
- Assign To View
- Use Cursor To
- Assign To Ed

Assign Close

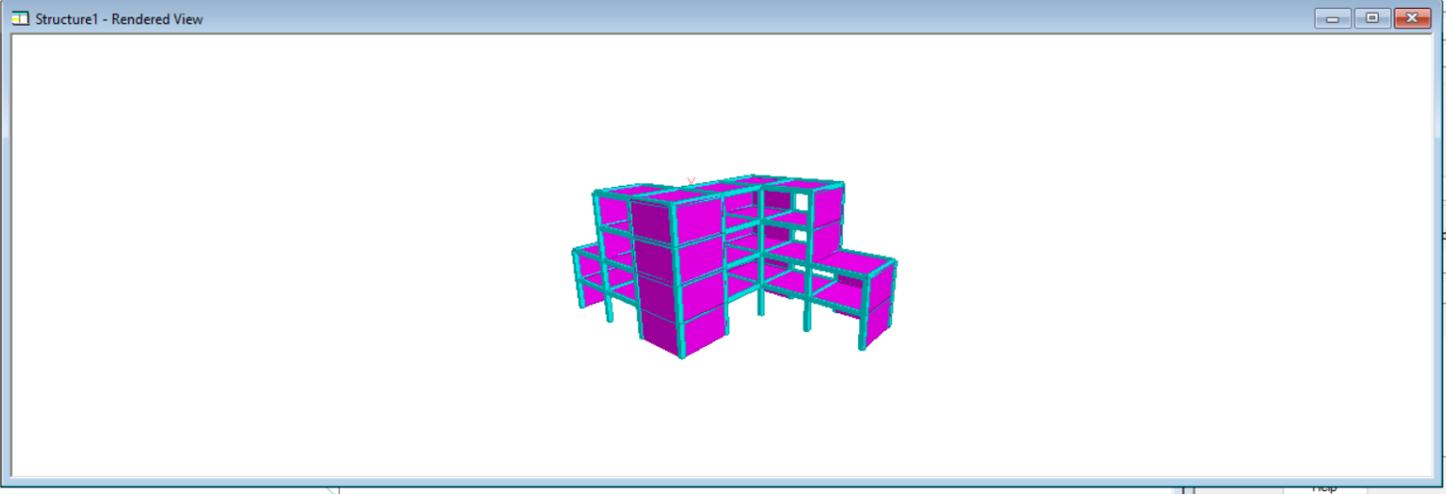


Structure1 - Job Info

Job:

Client:

Job No.:



Structure1 - Job Info

STAAD Analysis and Design

```
++ Read/Check Data in Load Cases ... 15: 6:49
++ Using In-Core Advanced Math Solver
++ Processing and setting up Load Vector. 15: 6:49
++ Processing Element Stiffness Matrix. 15: 6:49
++ Calculating Member Forces. 15: 6:49
++ Analysis Successfully Completed ++
++ Processing Element Forces. 15: 6:49
++ Processing Element Corner Forces. 15: 6:49
++ Processing Element Stresses. 15: 6:50
++ Performing Concrete Design 15: 6:50
++ Calculating Section Forces1. 15: 6:50
++ Calculating Section Forces2. 15: 6:50
++ Calculating Section Forces3. 15: 6:50
++ Start Concrete Design ... 15: 6:50
++ Start Concrete Design ... 15: 6:50
++ Creating Displacement File (DSP)... 15: 6:50
++ Creating Reaction File (REA)... 15: 6:50
++ Calculating Section Forces1-110. 15: 6:50
++ Calculating Section Forces2. 15: 6:51
++ Calculating Section Forces3 15: 6:51
++ Creating Section Force File (BMD)... 15: 6:51
++ Creating Section Displace File (SCN)... 15: 6:51
++ Creating Element Stress File (EST)... 15: 6:51
++ Creating Element JT Stress File (EJT)... 15: 6:51
++ Creating Element JT Force File (ECF)... 15: 6:51
++ Creating Design information File (DGN)... 15: 6:51
++ Done. 15: 6:51
```

0 Error(s). 4 Warning(s). 1 Note(s)

```
++ End STAAD.Pro Run Elapsed Time = 3 Secs
C:\Users\Jahziel Hernandez\Documents\escuela\U\D\New...anl
```

- View Output File
- Go to Post Processing Mode
- Stay in Modeling Mode

Done



WARNING

WARNING - PROPERTY FOR MEMBE
 WARNING - PROPERTY FOR MEMBE
 WARNING - PROPERTY FOR MEMBE
 WARNING: IF THIS UBC/IBC ANALYS

Cracked Moment of Inertia I_z at above location = 16680.0 cm⁴

REQUIRED REINF. STEEL SUMMARY :

SECTION (MM)	REINF STEEL (+VE/-VE) (SQ. MM)	MOMENTS (+VE/-VE) (KNS-MET)	LOAD (+VE/-VE)
0.	0./ 168.	0./ 20.	0/ 6
417.	0./ 98.	0./ 12.	0/ 6
833.	1./ 48.	0./ 6.	14/ 11
1250.	29./ 16.	4./ 2.	14/ 2
1667.	58./ 11.	7./ 1.	6/ 2
2083.	85./ 5.	10./ 1.	6/ 2
2500.	94./ 0.	12./ 0.	6/ 0
2917.	84./ 0.	10./ 0.	6/ 0

-----< PAGE 7 Ends Here >-----

STAAD SPACE	---	PAGE NO.	8
3333.	57./ 0.	7./ 0.	6/ 0
3750.	31./ 10.	4./ 1.	11/ 14
4167.	22./ 51.	3./ 6.	2/ 14
4583.	27./ 99.	3./ 12.	2/ 6
5000.	33./ 169.	4./ 21.	2/ 6

BEAM NO. 17 DESIGN RESULTS - SHEAR

NOTES
RESULTS

R3
R3

Design

R2
R2

