



NOMBRE DEL ALUMNO: JULIO ALBERTO
AGUILAR VERA

NOMBRE DEL PROFESOR: PEDRO ALBERTO GARCIA

PASIÓN POR EDUCAR

UDS

PASIÓN POR EDUCAR

NOMBRE DEL TABAJO: EDIFICIO

COMITAN DE DOMINGUEZ CHIAPAS

MATERIA: ANALISIS DE ESTRUCTURAS

GRADO Y GRUPO: 5ª "A"

11/03/2022

STAAD.Pro V8i (SELECTseries 6) - Structure1

File Edit View Tools Select Geometry Commands Analyze Mode Bentley Cloud Services Window Help

Modeling Building Planner Piping Bridge Deck Postprocessing Foundation Design Steel Design RAM Connection Concrete Design Advanced Slab Design Earthquake

Structure1 - Whole Structure

Concrete Design - Whole Structure

Current Code: ACI 318 2011

- PERFORM ANALYSIS
 - START CONCRETE DESIGN
 - CODE ACI
 - FC 2.00014e+006
 - FYMAIN 4.2003e+007
 - TRACK 2
 - DESIGN BEAM
 - DESIGN COLUMN
 - END CONCRETE DESIGN
 - FINISH

Highlight Assigned Geometry

Toggle Assign

Select Parameters... Define Parameters... Commands...

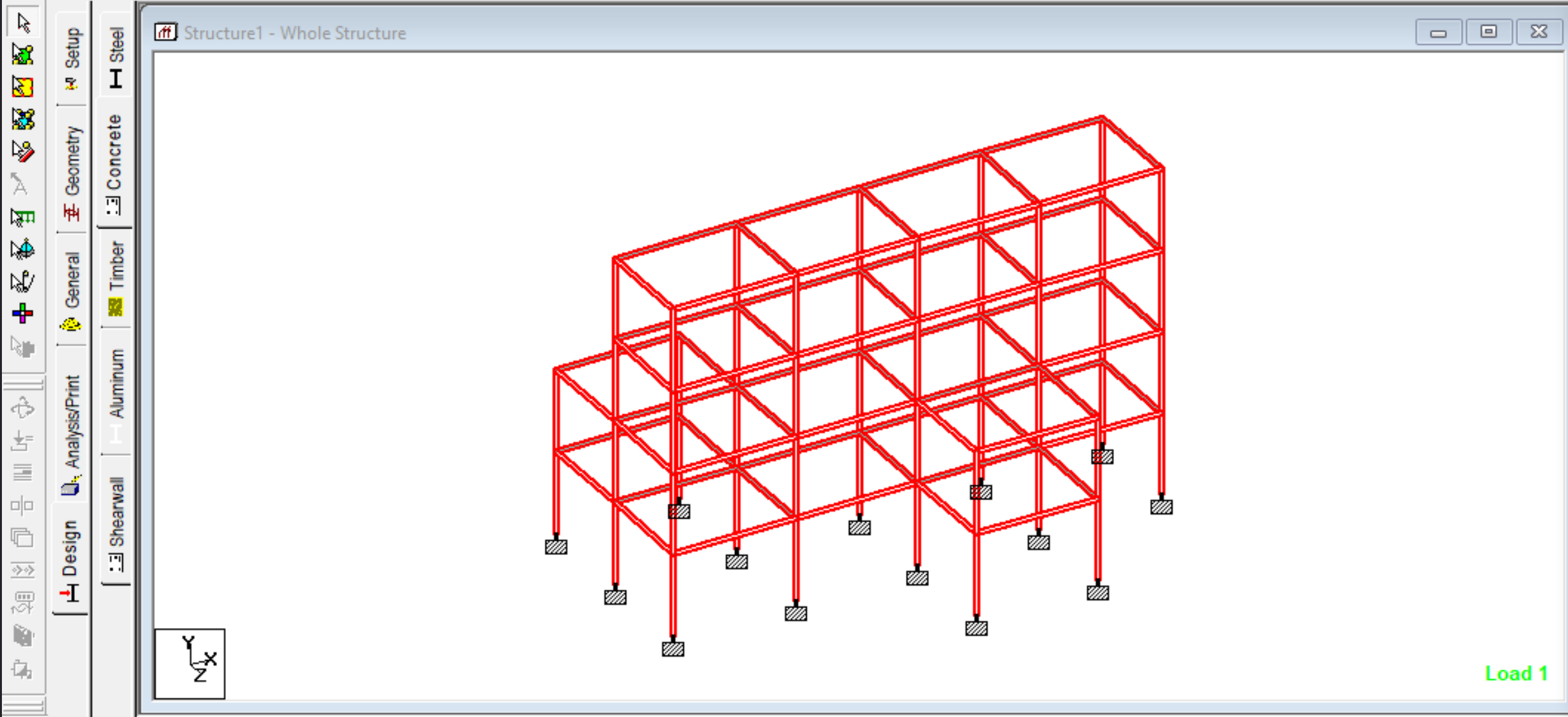
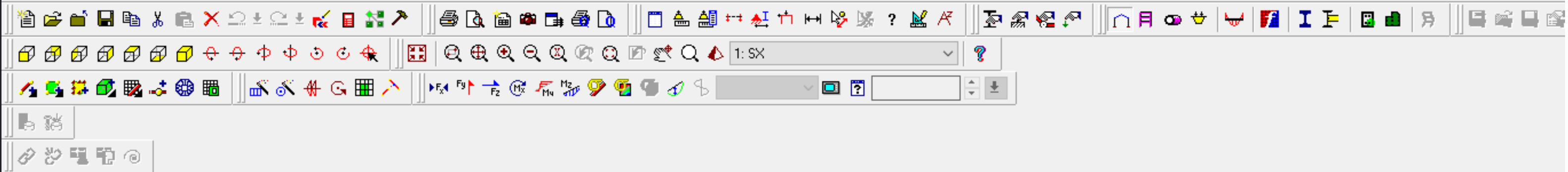
Assignment Method

- Assign To Selected Beams/Plates
- Assign To View
- Use Cursor To Assign
- Assign To Edit List Select Group/Deck

1 To 35 42 To 44 49 To 88 90 To 143

Assign Close Help

Load 1



Concrete Design - Whole Structure

Current Code: ACI 318 2011

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 - DESIGN COLUMN
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- FINISH

Highlight Assigned Geometry

Toggle Assign

Select Parameters... Define Parameters... Commands...

Assignment Method

Assign To Selected Beams/Plates

Assign To View

Use Cursor To Assign

Assign To Edit List Select Group/Deck

1 To 35 42 To 44 49 To 88 90 To 123

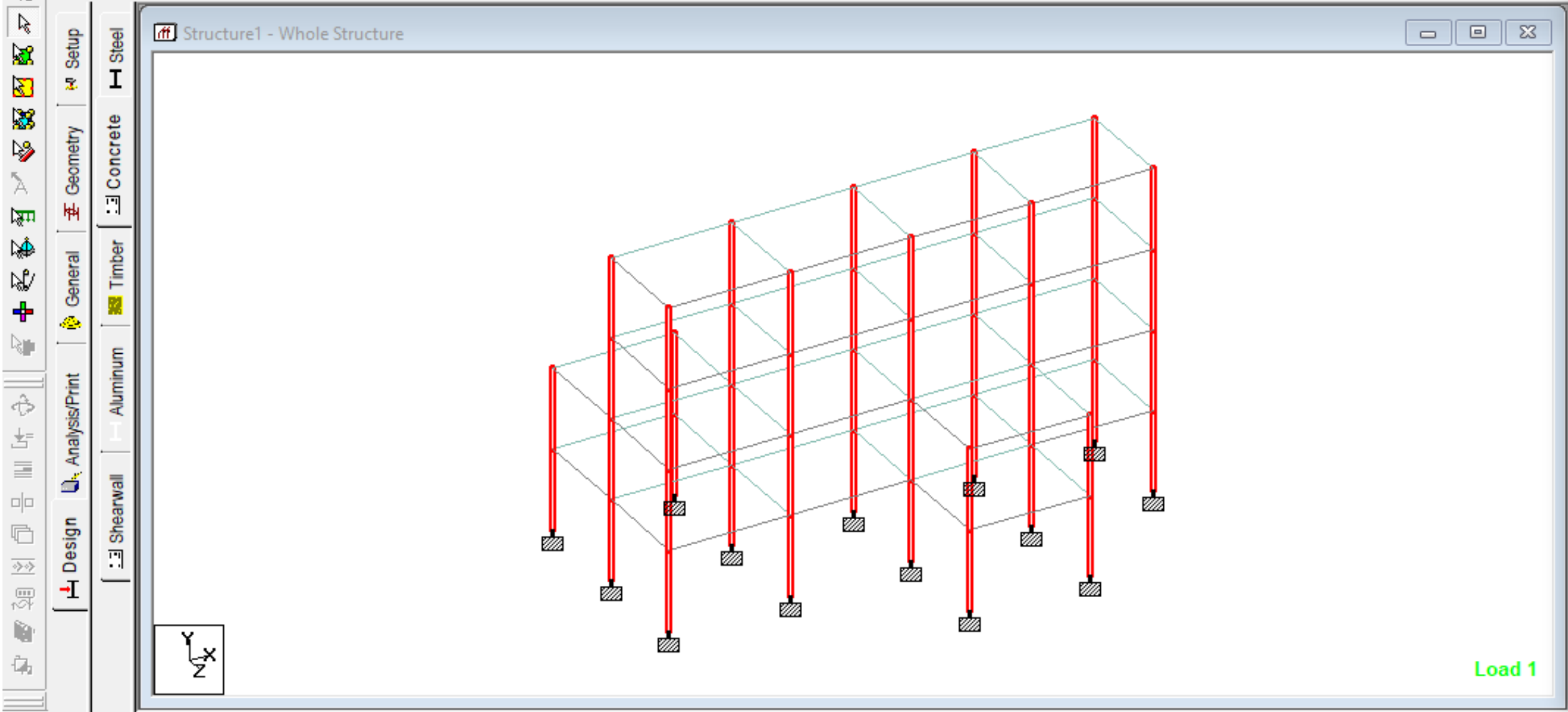
Assign Close Help

STAAD.Pro V8i (SELECTseries 6) - Structure1

File Edit View Tools Select Geometry Commands Analyze Mode Bentley Cloud Services Window Help

1: SX

Modeling Building Planner Piping Bridge Deck Postprocessing Foundation Design Steel Design RAM Connection Concrete Design Advanced Slab Design Earthquake



Concrete Design - Whole Structure

Current Code: ACI 318 2011

- PERFORM ANALYSIS
- START CONCRETE DESIGN
 - ✓ CODE ACI
 - ✓ FC 2.00014e+006
 - ✓ FYMAIN 4.2003e+007
 - ✓ TRACK 2
 - ✓ DESIGN BEAM
 - DESIGN COLUMN
 - ✓ END CONCRETE DESIGN
- FINISH

Highlight Assigned Geometry

Toggle Assign

Select Parameters... Define Parameters... Commands...

Assignment Method

Assign To Selected Beams

Assign To View

Use Cursor To Assign

Assign To Edit List Select Group/Deck

1 To 28 77 To 80 88 93 94 98 99 107 To 112 11

Assign Close Help

For Help, press F1 Modeling Mo Load 1 : SX Input Units: kg-m

Escribe aquí para buscar

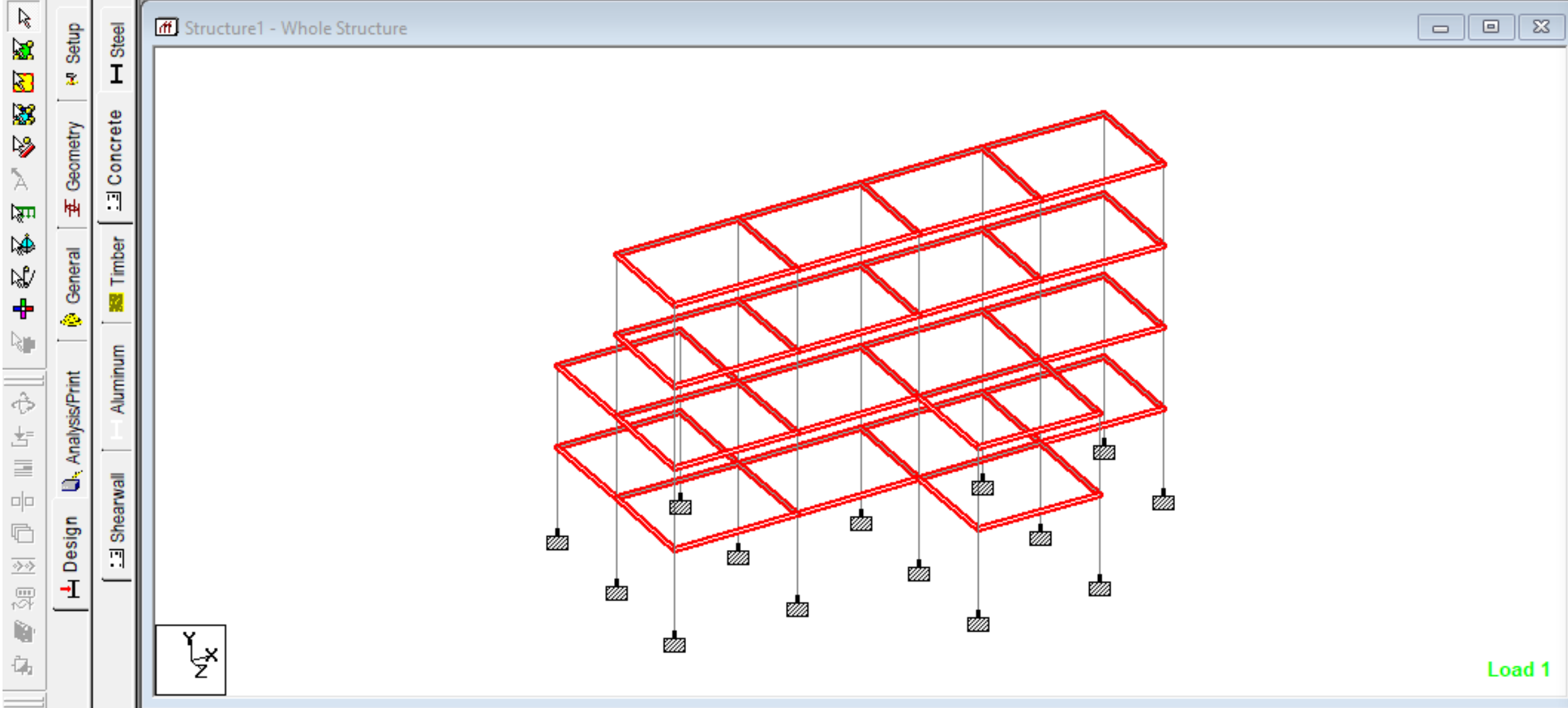
09:39 p. m. 11/03/2022

STAAD.Pro V8i (SELECTseries 6) - Structure1

File Edit View Tools Select Geometry Commands Analyze Mode Bentley Cloud Services Window Help

1: SX

Modeling Building Planner Piping Bridge Deck Postprocessing Foundation Design Steel Design RAM Connection Concrete Design Advanced Slab Design Earthquake



Concrete Design - Whole Structure

Current Code: ACI 318 2011

- PERFORM ANALYSIS
- START CONCRETE DESIGN
 - CODE ACI
 - FC 2.00014e+006
 - FYMAIN 4.2003e+007
 - TRACK 2
 - DESIGN BEAM
 - DESIGN COLUMN
 - END CONCRETE DESIGN
- FINISH

Highlight Assigned Geometry

Toggle Assign

Select Parameters... Define Parameters... Commands...

Assignment Method

Assign To Selected Beams

Assign To View

Use Cursor To Assign

Assign To Edit List

Select Group/Deck

29 To 35 42 To 44 49 To 76 81 To 87 90 To 92

Assign Close Help

For Help, press F1 Modeling Mo Load 1 : SX Input Units: kg-m

Escribe aquí para buscar

09:39 p. m. 11/03/2022

STAAD.Pro Editor

Go to... Add Clear Collapse Contents Error List Converter Check Syntax Calculator Settings Always on Top

Replace Previous Next Expand View Bookmarks Tools Settings Window

```

113 LOAD COMB 9 1.1 ( CM + CVA - SX ) + 0.3 SZ
114 3 1.1 5 1.1 1 -1.1 2 0.3
115 LOAD COMB 10 1.1 ( CM + CVA - SX ) - 0.3 SZ
116 3 1.1 5 1.1 1 -1.1 2 -0.3
117 LOAD COMB 11 1.1 ( CM + CVA + SZ ) + 0.3 SX
118 3 1.1 5 1.1 2 1.1 1 0.3
119 LOAD COMB 12 1.1 ( CM + CVA + SZ ) - 0.3 SX
120 3 1.1 5 1.1 2 1.1 1 -0.3
121 LOAD COMB 13 1.1 ( CM + CVA - SZ ) + 0.3 SX
122 3 1.1 5 1.1 2 -1.1 1 0.3
123 LOAD COMB 14 1.1 ( CM + CVA - SZ ) - 0.3 SX
124 3 1.1 5 1.1 2 -1.1 1 -0.3
125 LOAD COMB 15 1.0 CM + 1.0 CVM
126 3 1.0 4 1.0
127 PERFORM ANALYSIS
128 START CONCRETE DESIGN
129 CODE ACI
130 FC 2.00014e+006 ALL
131 FYMAIN 4.2003e+007 MEMB 1 TO 35 42 TO 44 49 TO 88 90 TO 123
132 TRACK 2 MEMB 29 TO 35 42 TO 44 49 TO 76 81 TO 87 90 TO 92 95 TO 97 -
133 100 TO 106 113 TO 118
134 DESIGN BEAM 29 TO 35 42 TO 44 49 TO 76 81 TO 87 90 TO 92 95 TO 97 100 TO 106 -
135 113 TO 118
136 DESIGN COLUMN 1 TO 28 77 TO 80 88 93 94 98 99 107 TO 112 119 TO 123
137 END CONCRETE DESIGN
138 FINISH
139
    
```

Structure1 - Nodes

Node	X m	Y m	Z m
1	0.000	0.000	-10.000
2	0.000	0.000	-15.000
3	0.000	0.000	-20.000
4	6.000	0.000	-10.000
5	6.000	0.000	-15.000
6	6.000	0.000	-20.000
7	12.000	0.000	-5.000
8	12.000	0.000	-10.000
9	12.000	0.000	-15.000
10	18.000	0.000	-5.000
11	18.000	0.000	-10.000
12	18.000	0.000	-15.000

Structure1 - Beams

Beam	Node A	Node B	Property Refn
1	3	17	2
2	17	31	2
3	2	16	2
4	16	30	2
5	1	15	2
6	15	29	2
7	6	20	2
8	20	34	2
9	5	19	2
10	19	33	2
11	4	18	2
12	18	32	2

STAAD.Pro V8i (SELECTseries 6) - Structure1

File Edit View Tools Select Geometry Commands Analyze Mode Bentley Cloud Services Window Help

STAAD Analysis and Design

Current Directory: C:\Users\hersa\OneDrive\Escritorio\AUTOCAD

Input File: Structure1.std

```

++ Processing Joint Coordinates.                21:38:36
++ Processing Member Information.
++ Processing Element Information.
++ Reading Member Properties ...                21:38:36
++ Finished Reading Member Properties ...      130 ms
++ Processing Support Condition.                21:38:36
++ Read/Check Data in Load Cases ..           21:38:36
++ Using In-Core Advanced Math Solver
++ Processing and setting up Load Vector.      21:38:36
++ Processing Element Stiffness Matrix.        21:38:37
++ Calculating Member Forces.                  21:38:37
++ Analysis Successfully Completed ++
++ Processing Element Forces.                  21:38:37
++ Processing Element Corner Forces.           21:38:37
++ Processing Element Stresses.                21:38:37
++ Performing Concrete Design                  21:38:37
++ Calculating Section Forces1.                21:38:37
++ Calculating Section Forces2.                21:38:37
++ Calculating Section Forces3.                21:38:37
++ Start Concrete Design ...                   21:38:37
++ Start Concrete Design ...                   21:38:46

```

0 Error(s), 1 Warning(s), 1 Note(s)

Abort

Structure1 - Nodes

Node	X m	Y m	Z m
1	0.000	0.000	-10.000
2	0.000	0.000	-15.000
3	0.000	0.000	-20.000
4	6.000	0.000	-10.000
5	6.000	0.000	-15.000
6	6.000	0.000	-20.000
7	12.000	0.000	-5.000
8	12.000	0.000	-10.000
9	12.000	0.000	-15.000
10	18.000	0.000	-5.000
11	18.000	0.000	-10.000

Structure1 - Beams

Beam	Node A	Node B	Property Refn
1	3	17	2
2	17	31	2
3	2	16	2
4	16	30	2
5	1	15	2
6	15	29	2
7	6	20	2
8	20	34	2
9	5	19	2
10	19	33	2

Load 1