



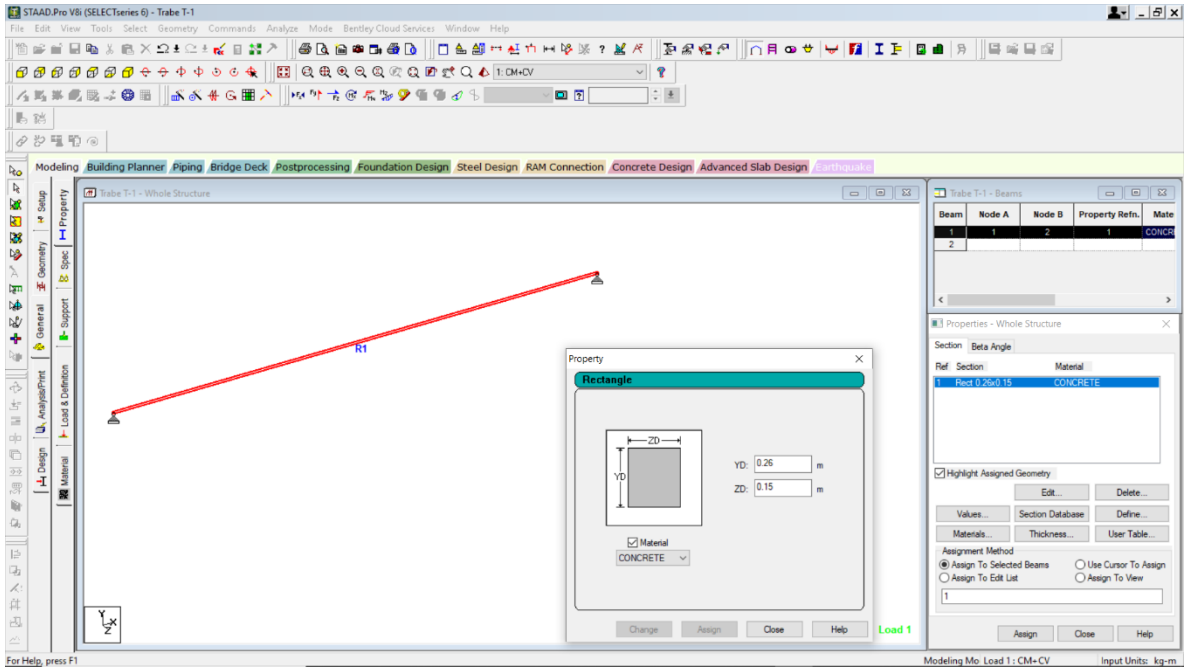
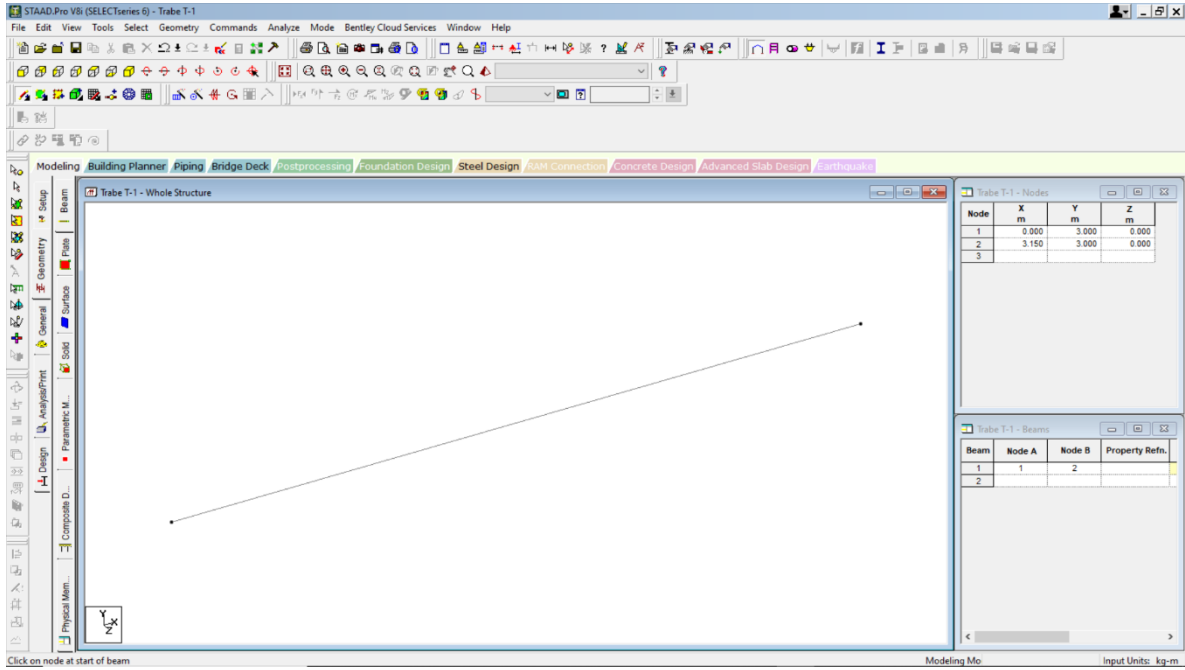
# TRABES Y CERRAMIENTOS CON STAAND.PRO

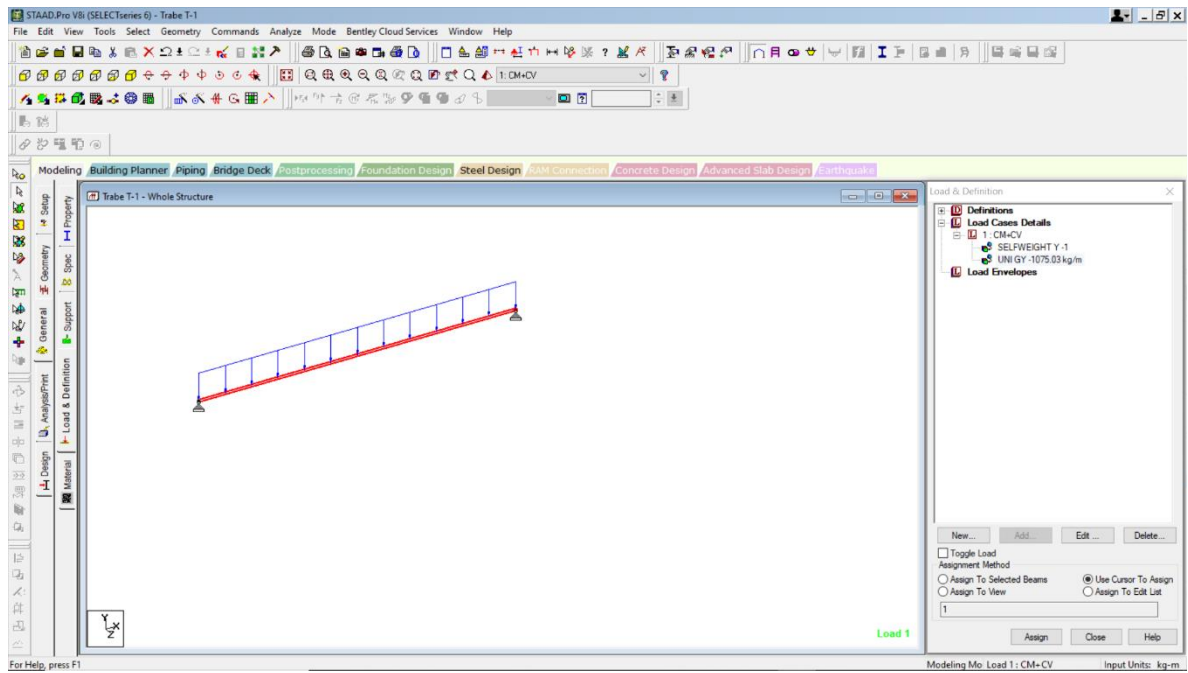
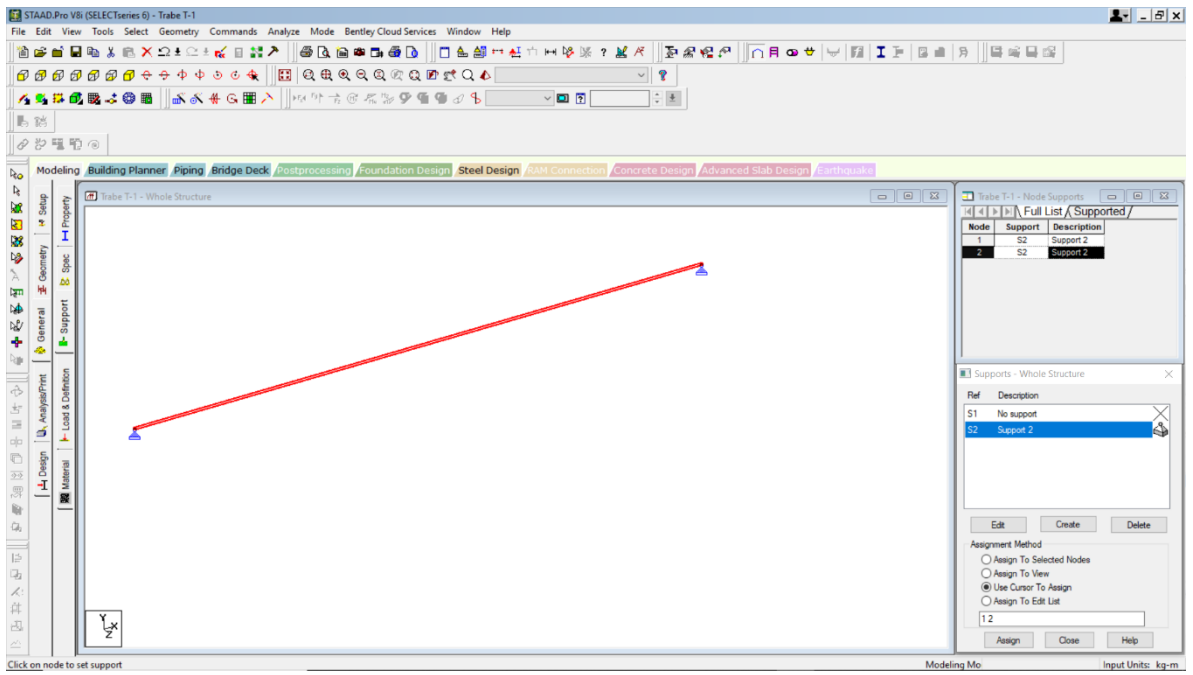
Taller de construcción

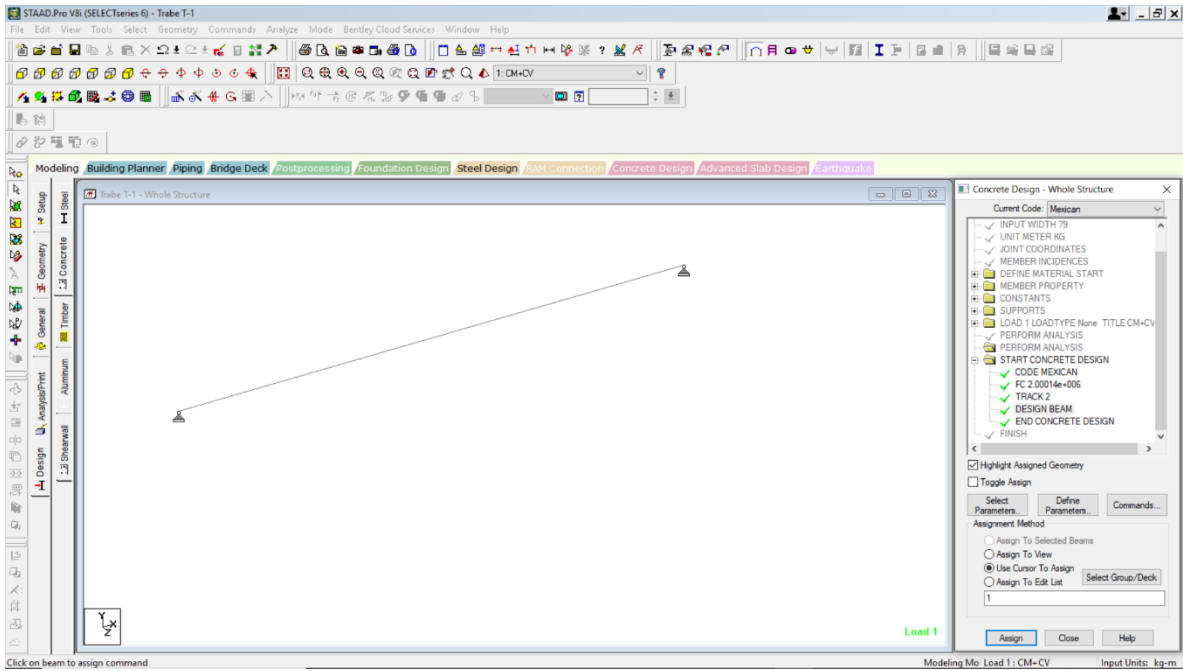
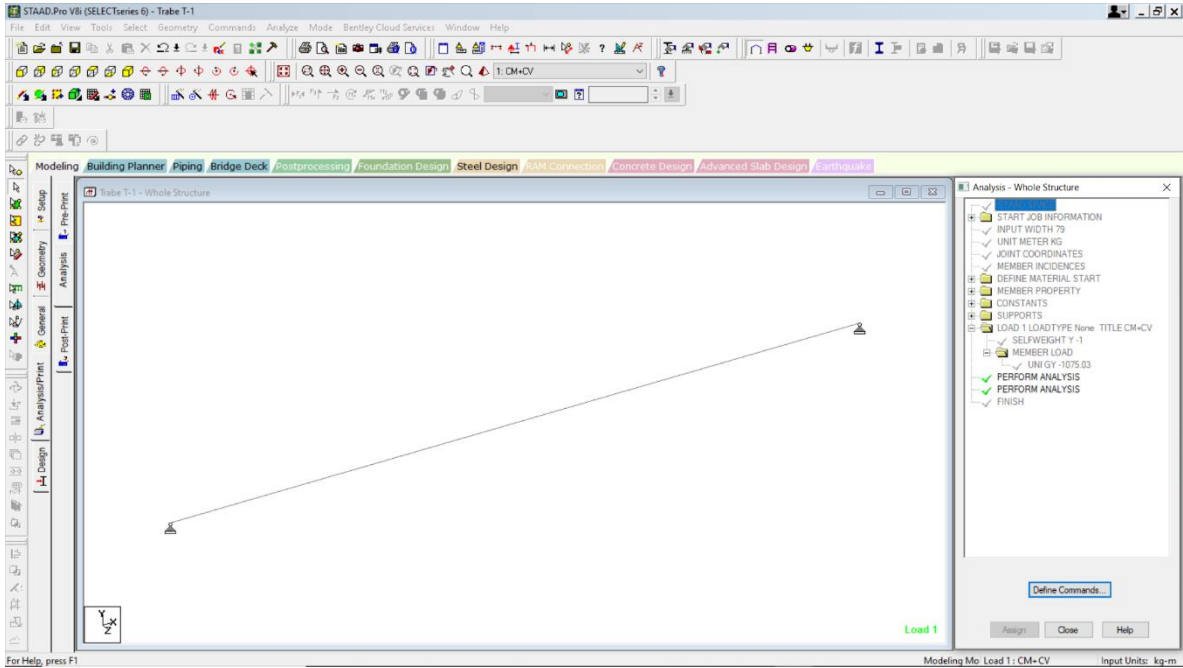
Carolina Del Rocío Ramírez Hernández

ARQ. PEDRO ALBERTO GARCÍA LÓPEZ

# Trabe 1 (T-1)







STAAD.Pro V8i (SELECTseries 6) - Trabe T-1

Trabe T-1.lni - STAAD Output Viewer

File Edit View Help

WARNING

\*\*\*WARNING - INSTABILITY AT JOINT  
\*\*WARNING - CONSECUTIVE ANALYSIS

BEAM NO. 1 DESIGN RESULTS - FLEXURE

PER CODE NTC FOR THE DESIGN AND CONSTRUCTION OF CONCRETE STRUCTURES, DDF

LEN - 3150.00 (mm) FY - 412. FC - 20. SIZE - 150.00 X 260.00 (mm)

LEVEL	HEIGHT (mm)	BAR INFO	FROM (mm)	TO (mm)	ANCHOR STA	END
1	43.	2 - 3M4	0.	3150.	YES	YES
2	72.	1 - 3M4	0.	3150.	YES	YES

CRITICAL POS MOMENT= 14.22 kNm AT 1575.00 (mm) LOAD 1

REQD STEEL= 205.86 (mm<sup>2</sup>) ROW=0.0066 ROWDK=0.0152 ROWWN=0.0024

REQD COMP STEEL= 0.00 (mm<sup>2</sup>)

MAX/MIN/ACTUAL BAR SPACING= 64.63/ 39.50/ 64.63 (mm)

COMP MAX/MIN/ACTUAL BAR SPACING= 0.00/ 0.00/ 0.00 (mm)

BASIC/REQD. DEVELOPMENT LENGTH = 239.40/ 289.94 (mm)

Cracked Moment of Inertia I<sub>s</sub> at above location = 0.48937E+08 mm<sup>4</sup>

NOTES

RESULTS

Total Page: 4 CAP NUM

Trabe T-1 - Beams

Beam	Node A	Node B	Property Refn.	Mate
1	1	2	1	CONCR
2				

Properties - Whole Structure

Section Beta Angle

Ref	Section	Material
1	Rect 0.26x0.15	CONCRETE

Highlight Assigned Geometry

Values... Section Database Define...  
Materials... Thickness... User Table...

Assignment Method

Assign To Selected Beams  Use Cursor To Assign  
 Assign To Edit List  Assign To View

1

Assign Close Help

Load 1

Modeling Mo. Load 1: CM+CV Input Units: kg-m

STAAD.Pro V8i (SELECTseries 6) - Trabe T-1

Trabe T-1.lni - STAAD Output Viewer

File Edit View Help

WARNING

\*\*\*WARNING - INSTABILITY AT JOINT  
\*\*WARNING - CONSECUTIVE ANALYSIS

Cracked Moment of Inertia I<sub>s</sub> at above location = 0.48937E+08 mm<sup>4</sup>

REQUIRED REINF. STEEL SUMMARY :

SECTION (MM)	REINF STEEL (+VE/-VE) (SQ. MM)	MOMENTS (+VE/-VE) (KNB-MET)	LOAD (+VE/-VE)
0.00	0.00/	0.00	0./
262.50	68.30/	0.00	4./
525.00	117.66/	0.00	8./
787.50	163.05/	0.00	11./
1050.00	197.17/	0.00	13./
1312.50	218.42/	0.00	14./
1575.00	225.65/	0.00	14./
1837.50	218.42/	0.00	14./
2100.00	197.17/	0.00	13./
2362.50	163.05/	0.00	11./
2625.00	117.66/	0.00	8./
2887.50	68.30/	0.00	4./
3150.00	0.00/	0.00	0./

BEAM NO. 1 DESIGN RESULTS - SHEAR

NOTES

RESULTS

Total Page: 4 CAP NUM

Trabe T-1 - Beams

Beam	Node A	Node B	Property Refn.	Mate
1	1	2	1	CONCR
2				

Properties - Whole Structure

Section Beta Angle

Ref	Section	Material
1	Rect 0.26x0.15	CONCRETE

Highlight Assigned Geometry

Values... Section Database Define...  
Materials... Thickness... User Table...

Assignment Method

Assign To Selected Beams  Use Cursor To Assign  
 Assign To Edit List  Assign To View

1

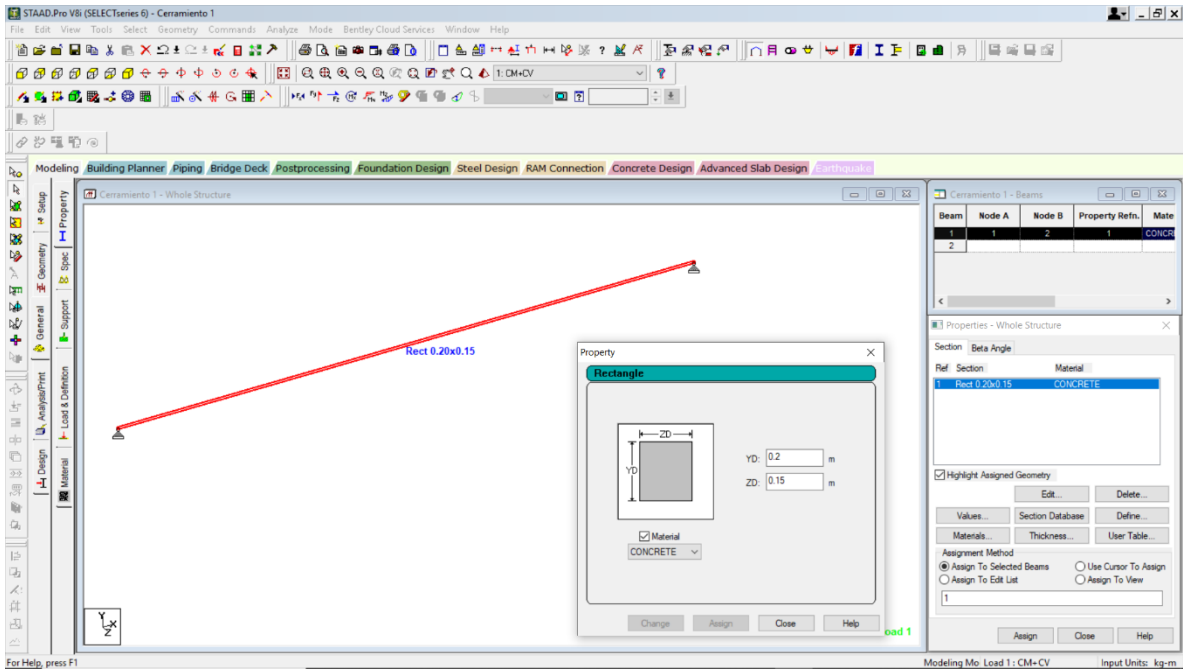
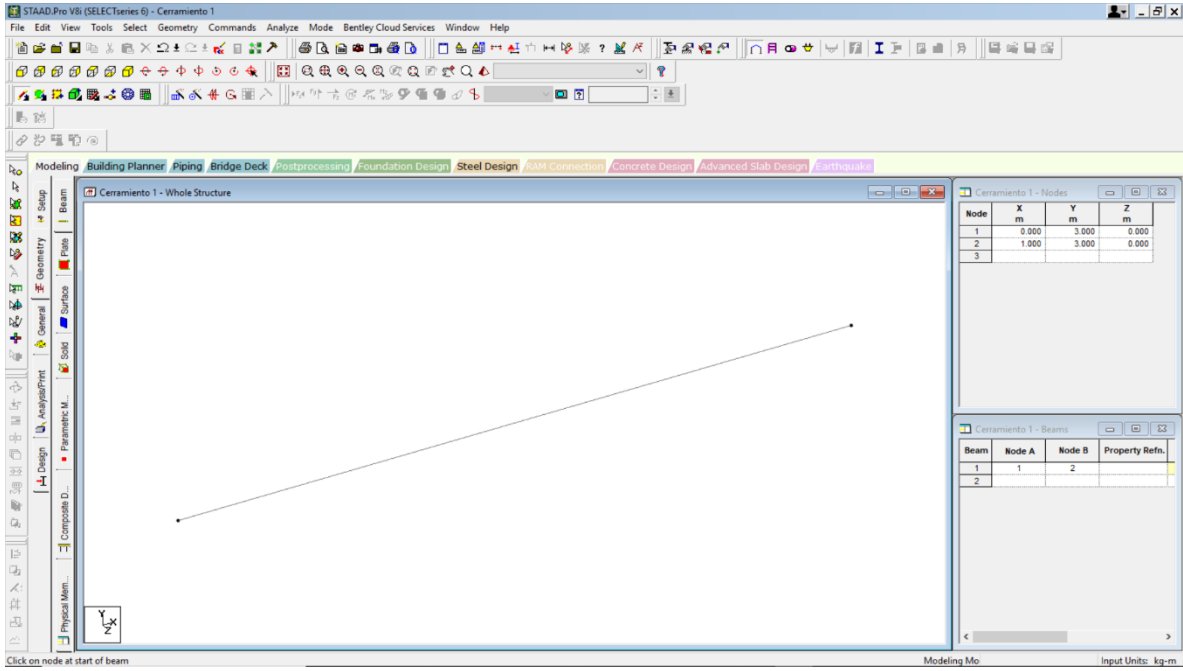
Assign Close Help

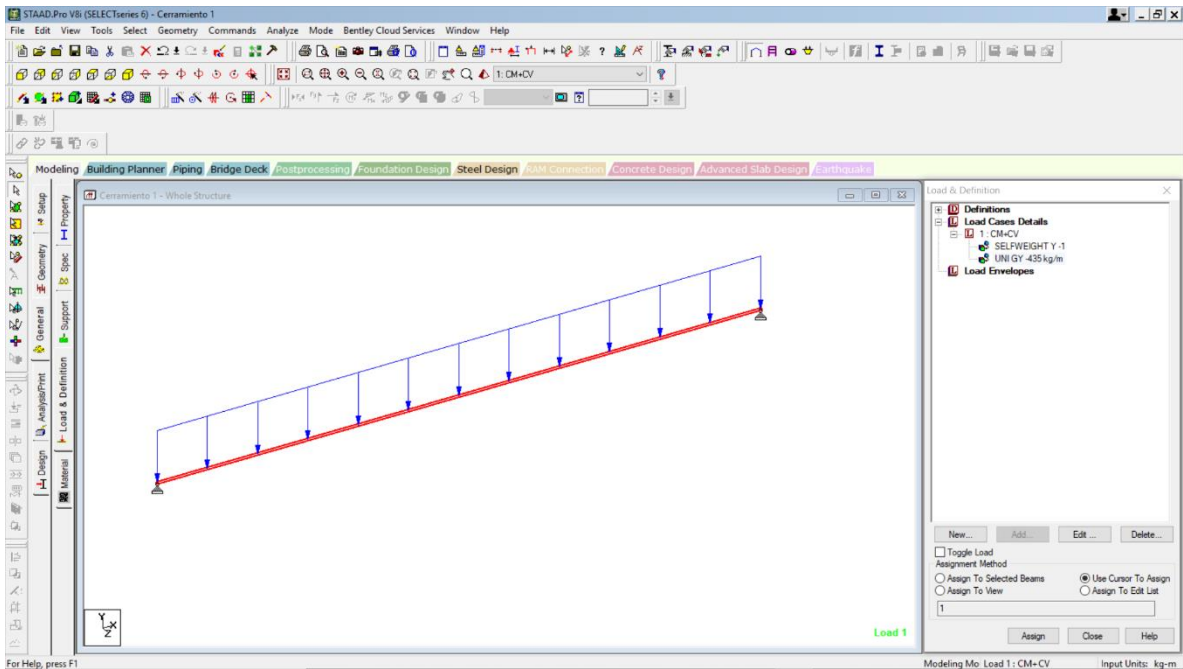
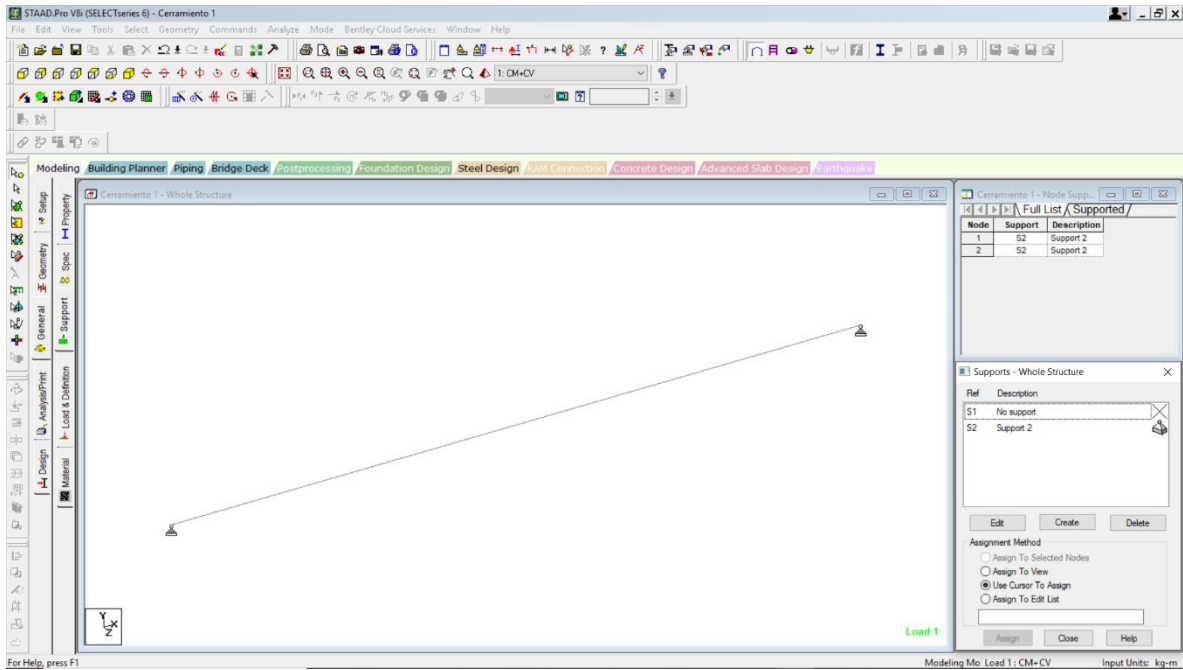
Load 1

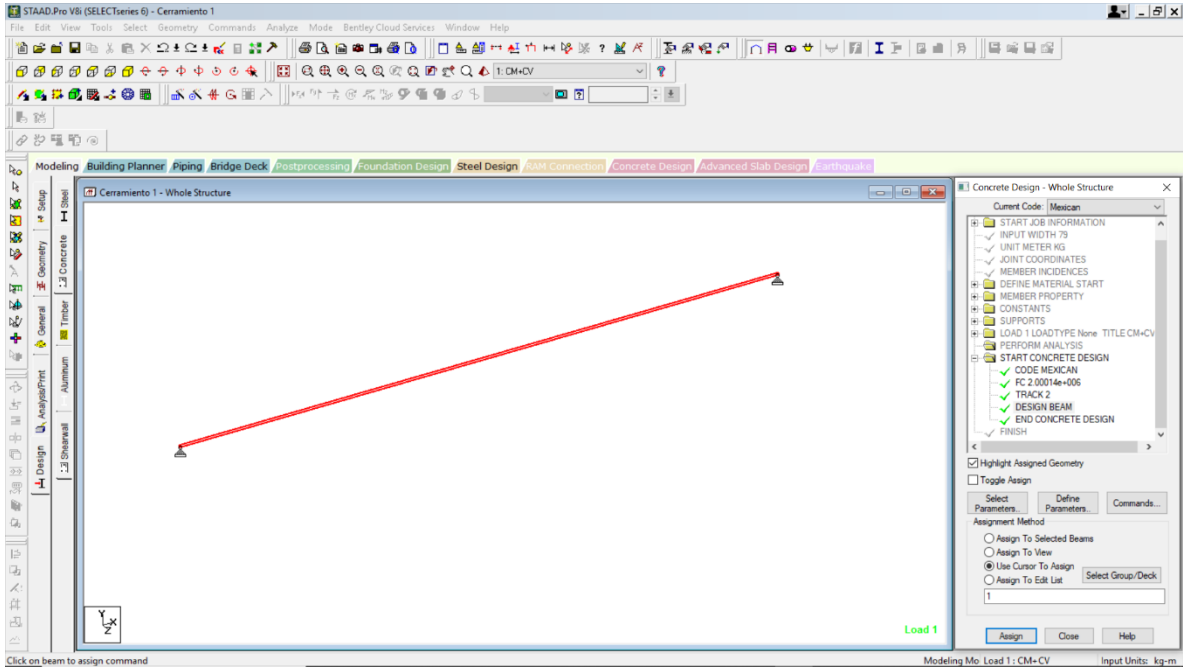
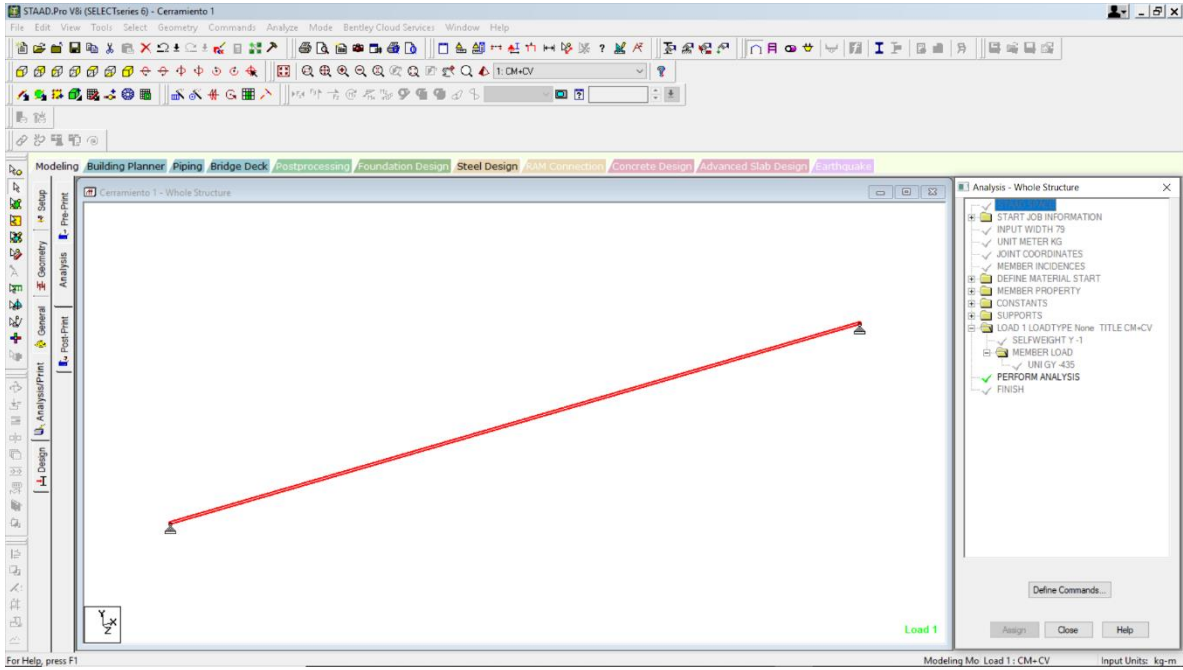
Modeling Mo. Load 1: CM+CV Input Units: kg-m

Capturas de pantalla guardadas  
La captura de pantalla se agregó a tu OneDrive.  
OneDrive

# Cerramiento 1 (C-1)









STAAD.Pro V8i (SELECTseries 6) - Cerramiento 1

Cerramiento 1.a11 - STAAD Output Viewer

File Edit View Help

WARNING

\*\*\*WARNING - INSTABILITY AT JOINT

BEAM NO. 1 DESIGN RESULTS - FLEXURE

PER CODE NTC FOR THE DESIGN AND CONSTRUCTION OF CONCRETE STRUCTURES, DDF

LEN - 1000.00 (mm) FY - 412. FC - 20. SIZE - 150.00 X 200.00 (mm)

LEVEL	HEIGHT (mm)	BAR INFO	FROM (mm)	TO (mm)	ANCHOR STA	ANCHOR END
1	42.	2 - 2.NM	0.	1000.	YES	YES

CRITICAL POS MOMENT= 0.09 kNm AT 500.00 (mm) LOAD 1

REQD STEEL= 39.29 (mm<sup>2</sup>) ROW=0.0017 ROWMX=0.0152 ROWMN=0.0018

REQD COMP STEEL= 0.00 (mm<sup>2</sup>)

MAX/MIN/ACTUAL BAR SPACING= 66.22/ 37.90/ 66.22 (mm)

COMP MAX/MIN/ACTUAL BAR SPACING= 0.00/ 0.00/ 0.00 (mm)

BASIC/REQD. DEVELOPMENT LENGTH = 199.08/ 178.30 (mm)

Cracked Moment of Inertia Iz at above location =0.13657E+08 mm<sup>4</sup>

REQUIRED REINF. STEEL SUMMARY :

Notes: NOTES RESULTS

Total Page: 4 CAP NUM

Properties - Whole Structure

Section Beta Angle

Ref	Section	Material
1	Rect 0.20x0.15	CONCRETE

Highlight Assigned Geometry

Assignment Method

Assign To Selected Beams (selected)

Assign To Edit List

Assign Close Help

Modeling Mo: Load 1: CM-CV Input Units: kg-m

STAAD.Pro V8i (SELECTseries 6) - Cerramiento 1

Cerramiento 1.a11 - STAAD Output Viewer

File Edit View Help

WARNING

\*\*\*WARNING - INSTABILITY AT JOINT

BASIC/REQD. DEVELOPMENT LENGTH = 199.08/ 178.30 (mm)

Cracked Moment of Inertia Iz at above location =0.13657E+08 mm<sup>4</sup>

REQUIRED REINF. STEEL SUMMARY :

SECTION (MM)	REINF STEEL (+VE/-VE) (SQ. MM)	MOMENTS (+VE/-VE) (KNS-MET)	LOAD (+VE/-VE)
0.00	0.00/ 0.00	0./ 0.00	0/ 1
83.33	39.29/ 0.00	0./ 0.00	1/ 0
166.67	39.29/ 0.00	0./ 0.00	1/ 0
250.00	39.29/ 0.00	0./ 0.00	1/ 0
333.33	39.29/ 0.00	0./ 0.00	1/ 0
416.67	39.29/ 0.00	0./ 0.00	1/ 0
500.00	39.29/ 0.00	0./ 0.00	1/ 0
583.33	39.29/ 0.00	0./ 0.00	1/ 0
666.67	39.29/ 0.00	0./ 0.00	1/ 0
750.00	39.29/ 0.00	0./ 0.00	1/ 0
833.33	39.29/ 0.00	0./ 0.00	1/ 0
916.67	39.29/ 0.00	0./ 0.00	1/ 0
1000.00	0.00/ 0.00	0./ 0.00	0/ 1

BEAM NO. 1 DESIGN RESULTS - SHEAR

Notes: NOTES RESULTS

Total Page: 4 CAP NUM

Properties - Whole Structure

Section Beta Angle

Ref	Section	Material
1	Rect 0.20x0.15	CONCRETE

Highlight Assigned Geometry

Assignment Method

Assign To Selected Beams (selected)

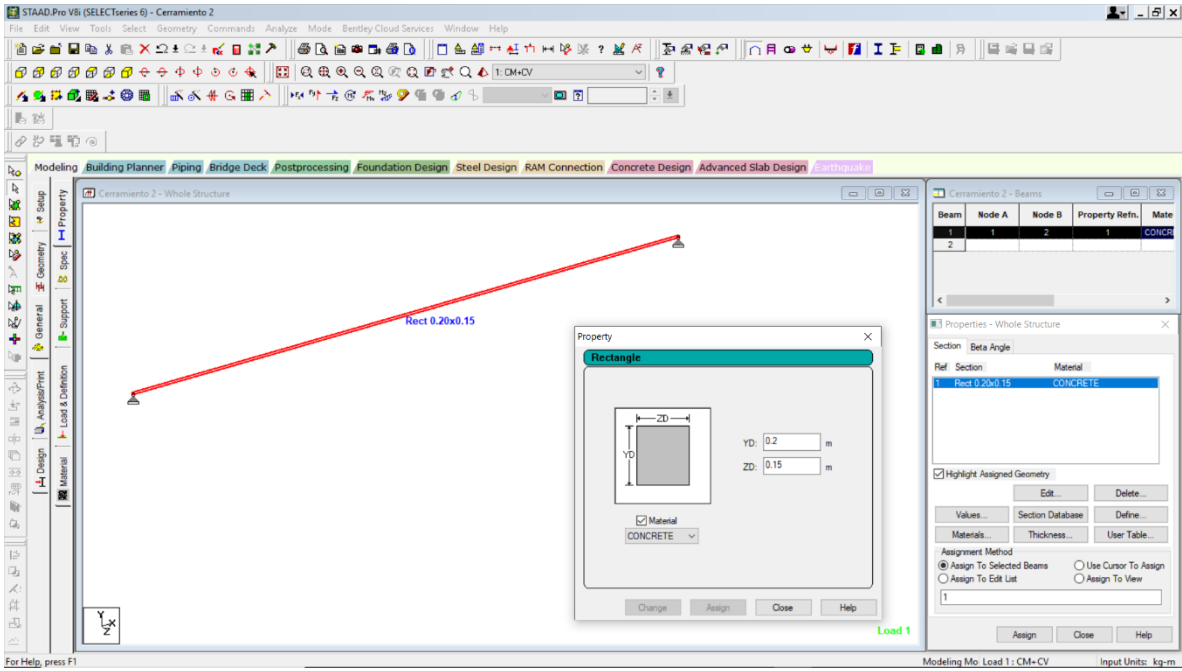
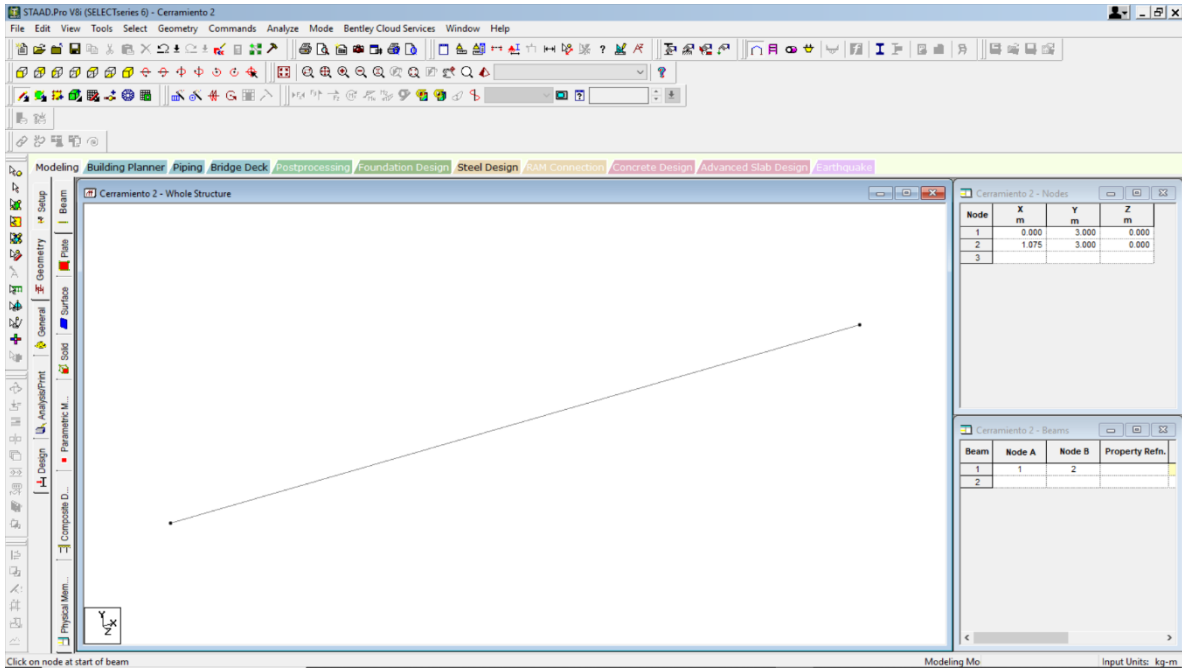
Assign To Edit List

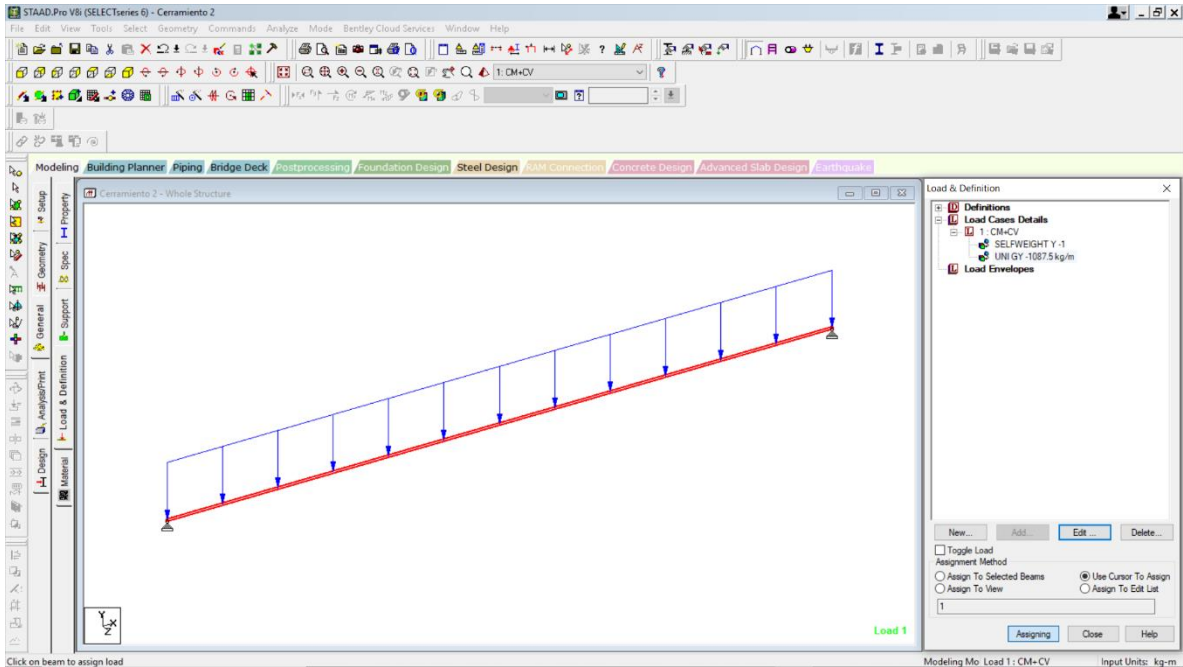
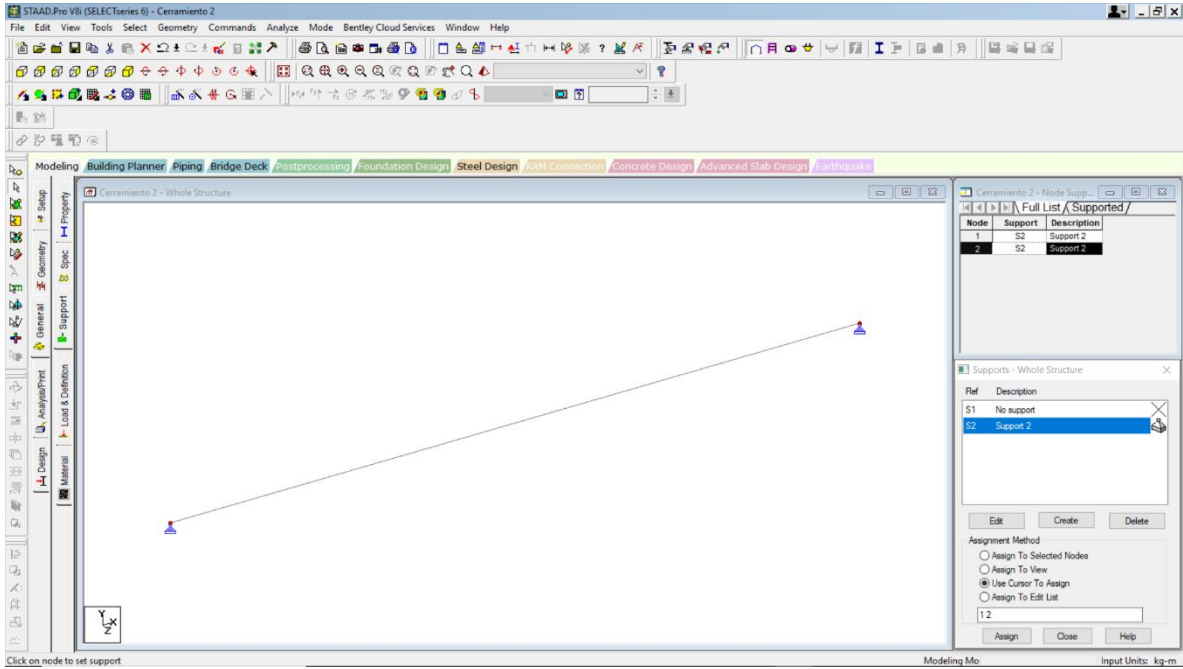
Assign Close Help

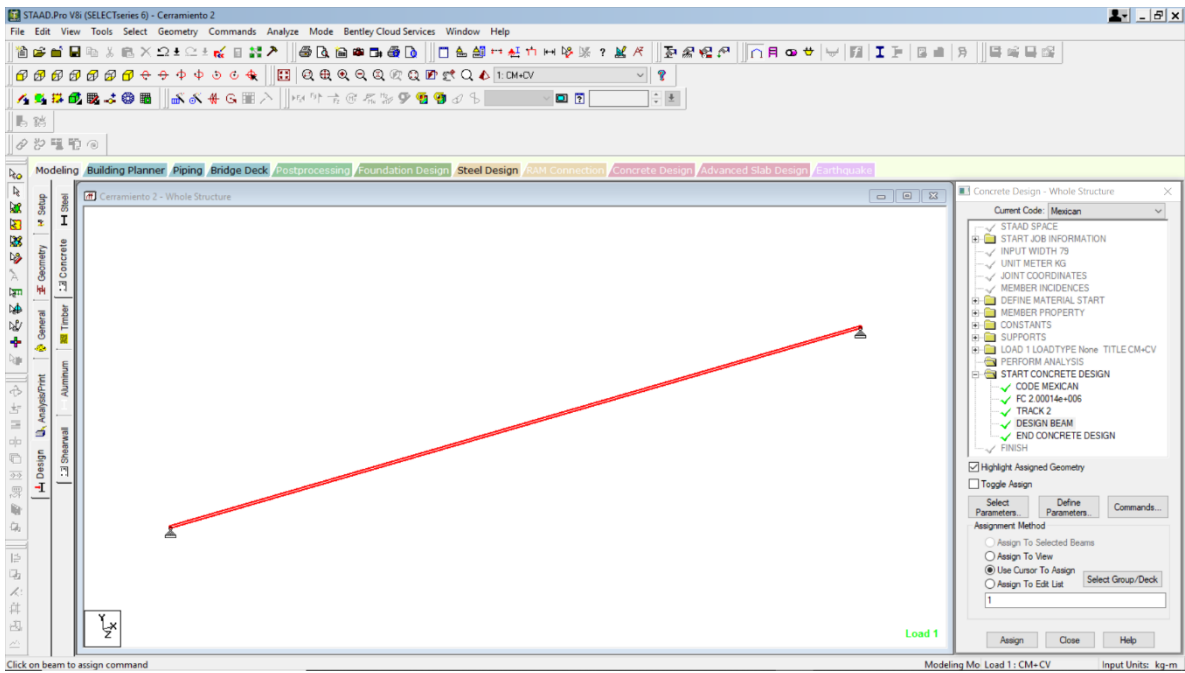
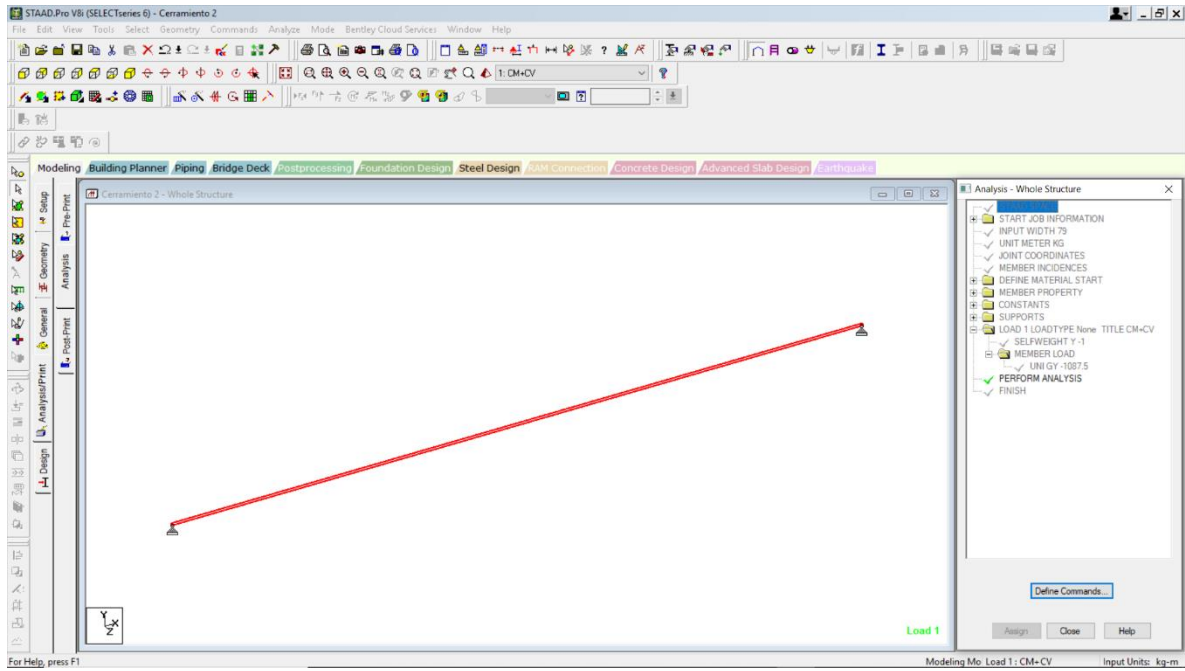
Modeling Mo: Load 1: CM-CV Input Units: kg-m

Capturas de pantalla guardadas  
La captura de pantalla se agregó a tu OneDrive.  
OneDrive

# Cerramiento 2 (C-2)







STAAD.Pro V8i (SELECTseries 6) - Cerramiento 2

Cerramiento 2.znl - STAAD Output Viewer

File Edit View Help

WARNING

\*\*\*WARNING - INSTABILITY AT JOINT

BEAM NO. 1 DESIGN RESULTS - FLEXURE

PER CODE NYC FOR THE DESIGN AND CONSTRUCTION OF CONCRETE STRUCTURES, DDP

LEN - 1075.00 (mm) FY - 412. FC - 20. SIZE - 150.00 X 200.00 (mm)

LEVEL	HEIGHT (mm)	BAR INFO	FROM (mm)	TO (mm)	ANCHOR STA	END
1	42.	2 - 2.MM	0.	1075.	YES	YES

CRITICAL POS MOMENT= 1.64 kNm AT 537.50 (mm) LOAD 1

REQD STEEL= 39.29 (mm<sup>2</sup>) ROW=0.0017 ROWMK=0.0152 ROWMN=0.0018

REQD COMP STEEL= 0.00 (mm<sup>2</sup>)

MAX/MIN/ACTUAL BAR SPACING= 66.22/ 37.50/ 66.22 (mm)

COMP MAX/MIN/ACTUAL BAR SPACING= 0.00/ 0.00/ 0.00 (mm)

BASIC/REQD. DEVELOPMENT LENGTH = 199.08/ 178.30 (mm)

Cracked Moment of Inertia Iz at above location =0.13657E+08 mm<sup>4</sup>

Analysis - Whole Structure

- START JOB INFORMATION
  - ENGINEER DATE 17-Feb-21
  - END JOB INFORMATION
  - INPUT WIDTH 79
  - UNIT METER KG
  - JOINT COORDINATES
  - MEMBER INCIDENCES
- DEFINE MATERIAL START
  - ISOTROPIC CONCRETE
    - E 2.21467e+009
    - POISSON 0.17
    - DENSITY 2402.62
    - ALPHA 1e-005
    - DAMP 0.05
    - TYPE CONCRETE
    - STRENGTH FCU 2.81229e+006
  - END DEFINE MATERIAL
- MEMBER PROPERTY
  - MATERIAL CONCRETE
  - PRIS YD 0.2 ZD 0.15
- SUPPORTS
  - PINNED
- LOAD 1 LOADTYPE None TITLE CM-CV
  - SELFWEIGHT Y -1
  - MEMBER LOAD
  - UNI GY -1087.5
- PERFORM ANALYSIS
- START CONCRETE DESIGN

Define Commands...

Assign Close Help

Load 1

Modeling Mo Load 1: CM-CV Input Units: kg-m

Total Page: 4 CAP INUM

For Help, press F1

STAAD.Pro V8i (SELECTseries 6) - Cerramiento 2

Cerramiento 2.znl - STAAD Output Viewer

File Edit View Help

WARNING

\*\*\*WARNING - INSTABILITY AT JOINT

REQUIRED REINF. STEEL SUMMARY :

SECTION (MM)	REINF STEEL (+VE/-VE) (SQ. MM)	MOMENTS (+VE/-VE) (KNS-MET)	LOAD (+VE/-VE)
0.00	0.00/ 0.00	0./ 0.00	0/ 1
89.58	39.29/ 0.00	1./ 0.00	1/ 0
179.17	39.29/ 0.00	1./ 0.00	1/ 0
268.75	39.29/ 0.00	1./ 0.00	1/ 0
358.33	39.29/ 0.00	1./ 0.00	1/ 0
447.92	40.97/ 0.00	2./ 0.00	1/ 0
537.50	42.17/ 0.00	2./ 0.00	1/ 0
627.08	42.17/ 0.00	2./ 0.00	1/ 0
716.67	42.17/ 0.00	1./ 0.00	1/ 0
806.25	42.17/ 0.00	1./ 0.00	1/ 0
895.83	42.17/ 0.00	1./ 0.00	1/ 0
985.42	42.17/ 0.00	1./ 0.00	1/ 0
1075.00	0.00/ 0.00	0./ 0.00	1/ 0

BEAM NO. 1 DESIGN RESULTS - SHEAR

AT START SUPPORT - Vu= 0.01 KN Vc= 0.00 KN Vs= 0.00 KN

Tu= 0.00 Kn Me Tc= 0.00 Kn Me Ts= 0.00 Kn Me LOAD 1

STIRRUPS ARE NOT REQUIRED.

Analysis - Whole Structure

- START JOB INFORMATION
  - ENGINEER DATE 17-Feb-21
  - END JOB INFORMATION
  - INPUT WIDTH 79
  - UNIT METER KG
  - JOINT COORDINATES
  - MEMBER INCIDENCES
- DEFINE MATERIAL START
  - ISOTROPIC CONCRETE
    - E 2.21467e+009
    - POISSON 0.17
    - DENSITY 2402.62
    - ALPHA 1e-005
    - DAMP 0.05
    - TYPE CONCRETE
    - STRENGTH FCU 2.81229e+006
  - END DEFINE MATERIAL
- MEMBER PROPERTY
  - MATERIAL CONCRETE
  - PRIS YD 0.2 ZD 0.15
- SUPPORTS
  - PINNED
- LOAD 1 LOADTYPE None TITLE CM-CV
  - SELFWEIGHT Y -1
  - MEMBER LOAD
  - UNI GY -1087.5
- PERFORM ANALYSIS
- START CONCRETE DESIGN

Define Commands...

Assign Close Help

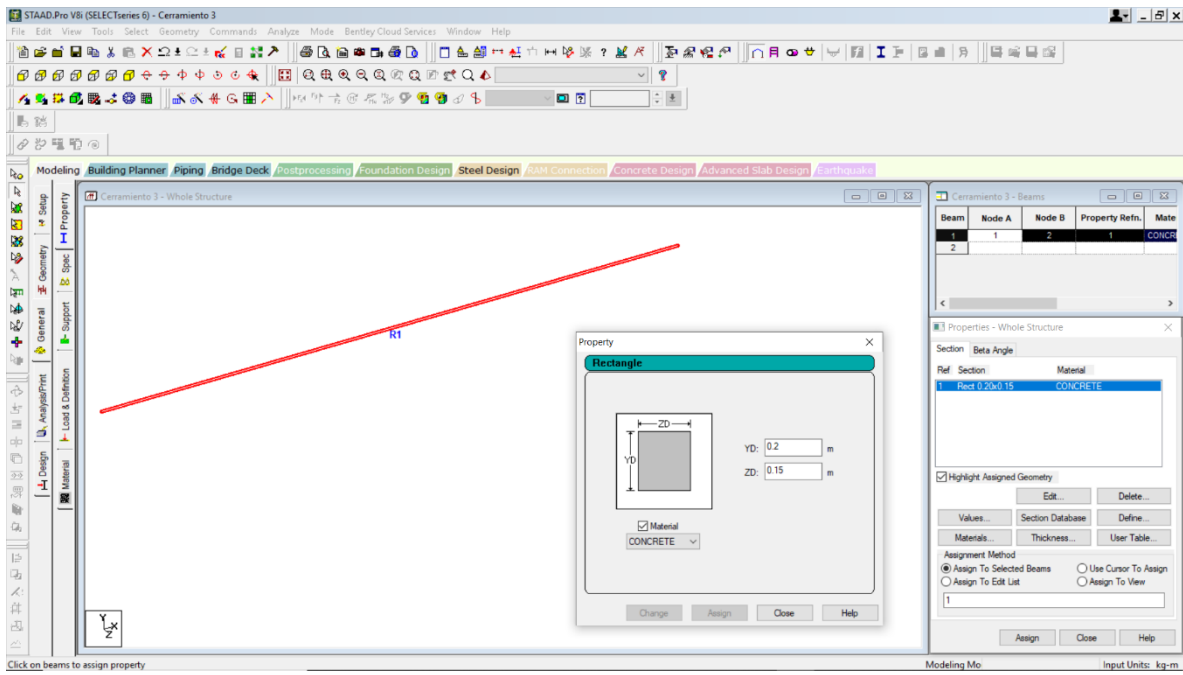
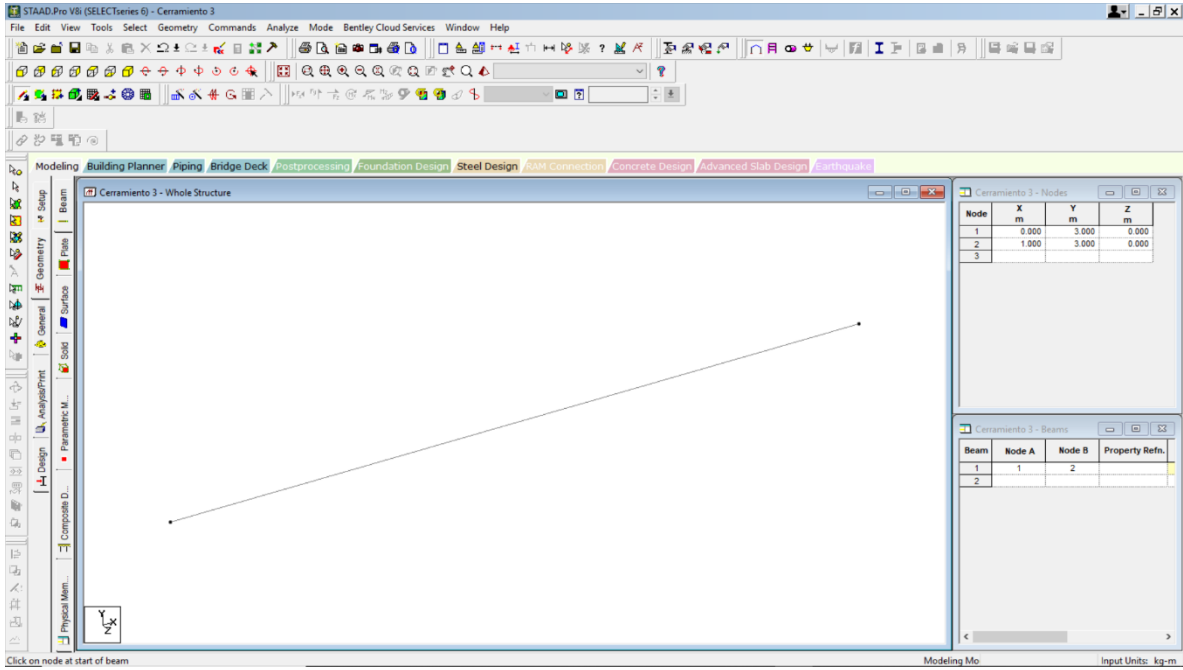
Load 1

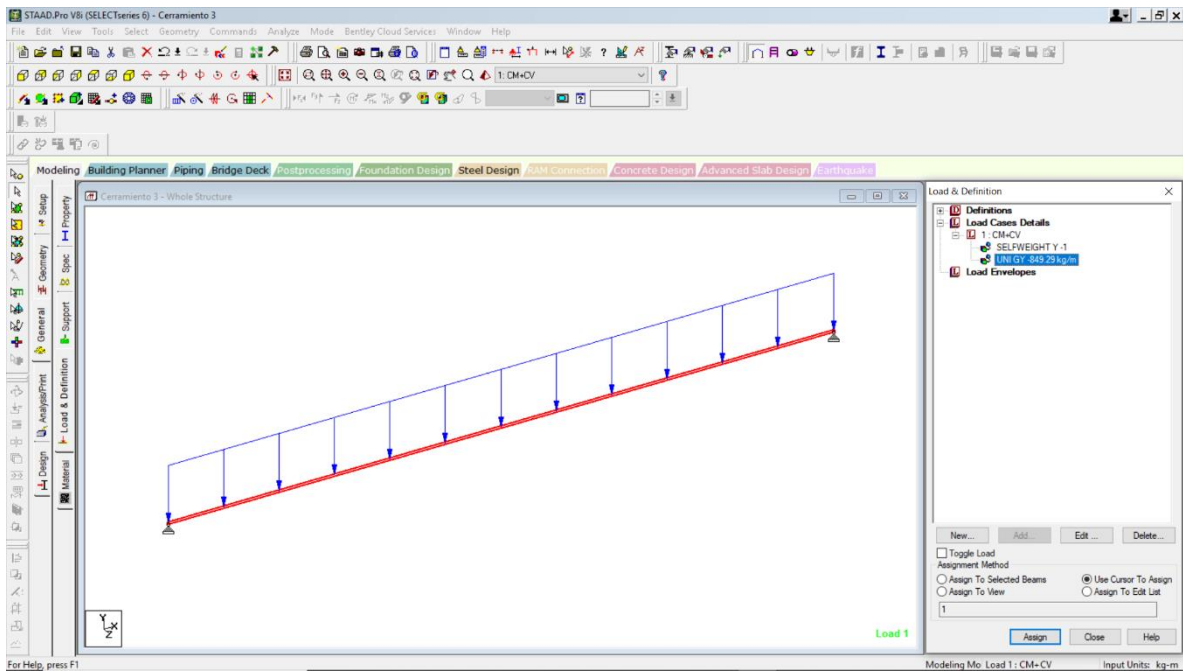
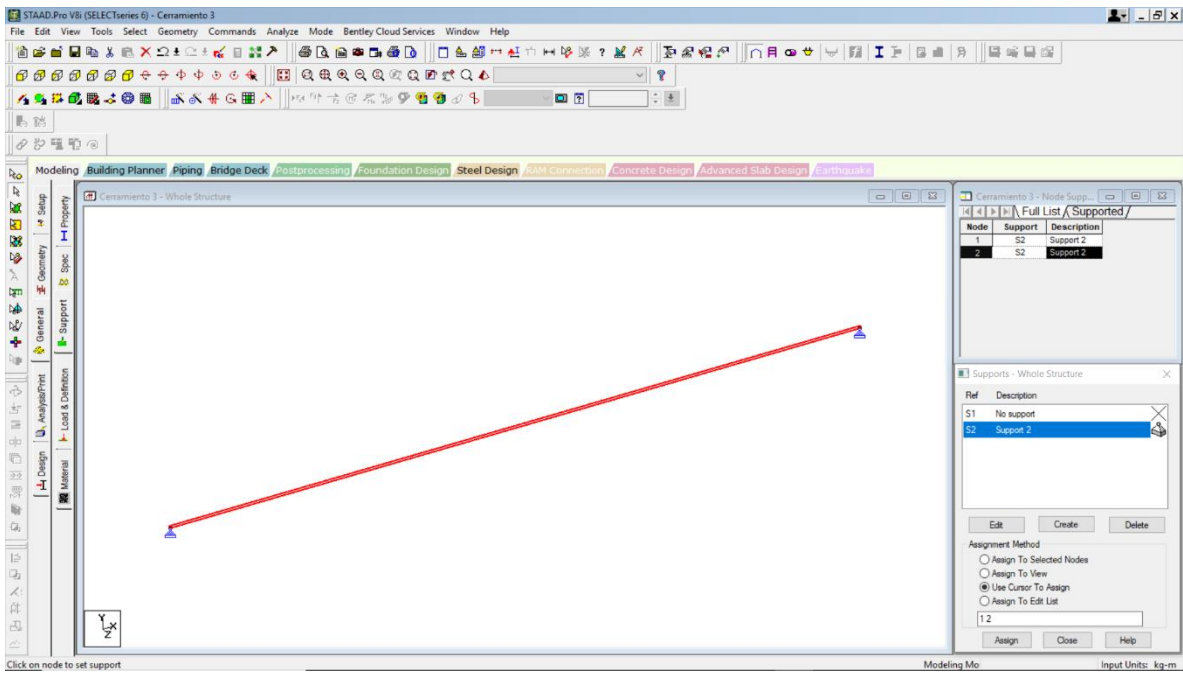
Modeling Mo Load 1: CM-CV Input Units: kg-m

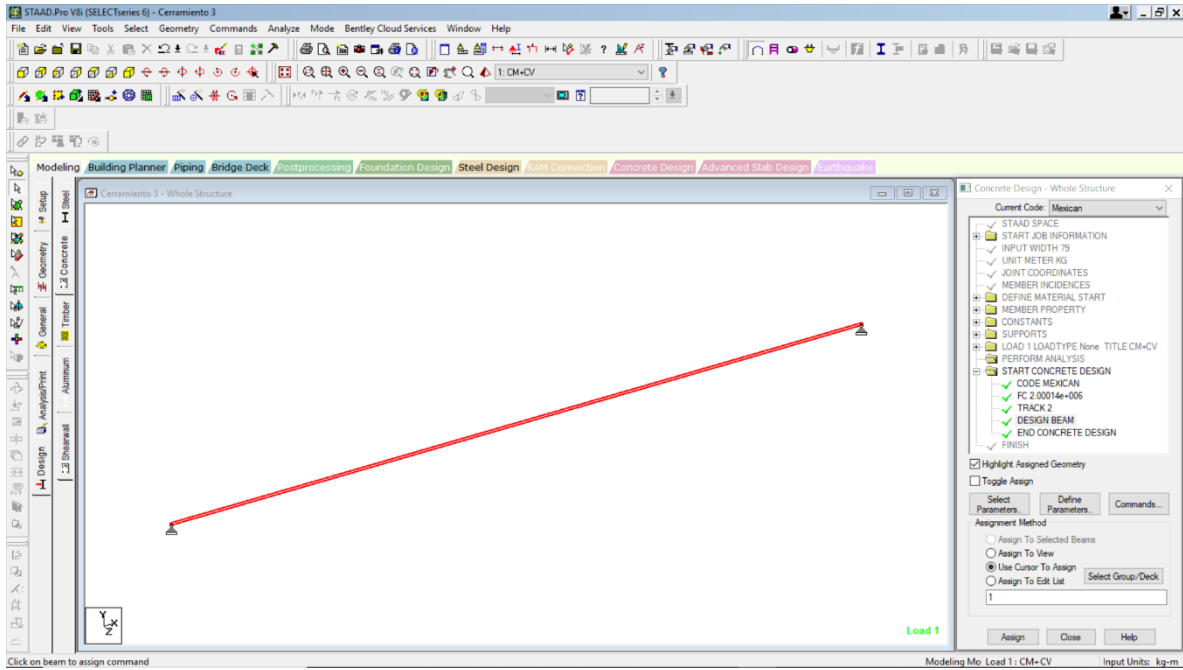
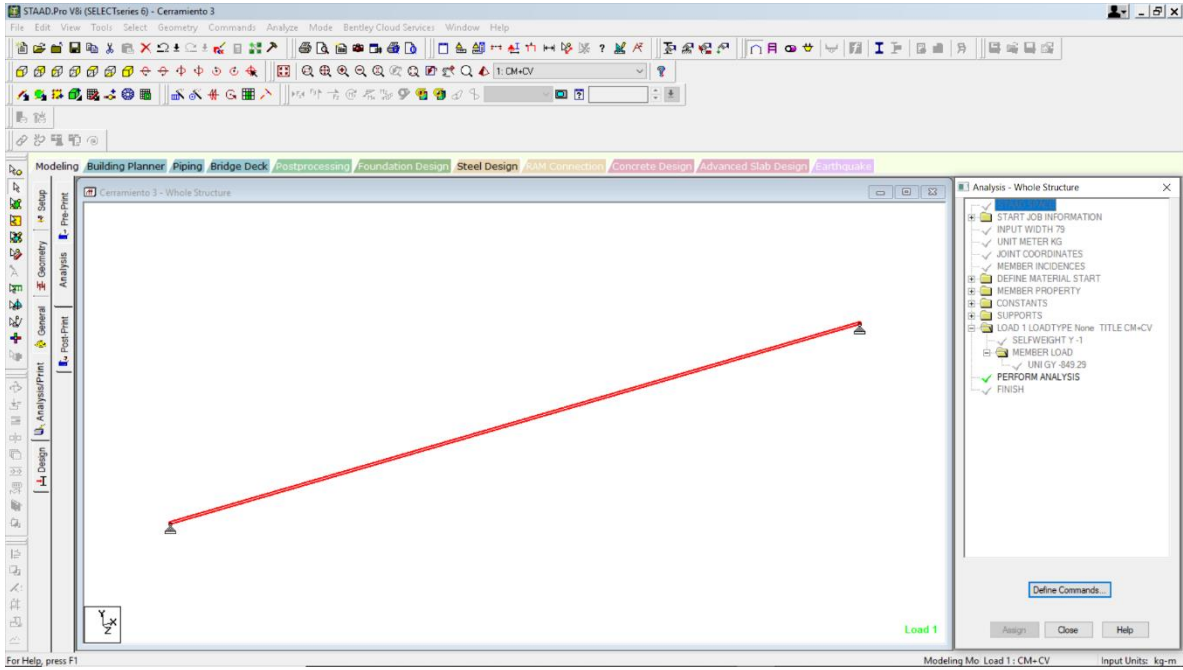
Total Page: 4 CAP INUM

For Help, press F1

# Cerramiento 3 (C-3)









STAAD.Pro V8i (SELECTseries 6) - Cerramiento 3

Cerramiento 3.a.r1 - STAAD Output Viewer

File Edit View Help

\*\*\*WARNING - INSTABILITY AT JOINT

BEAM NO. 1 DESIGN RESULTS - FLEXURE

PER CODE NTC FOR THE DESIGN AND CONSTRUCTION OF CONCRETE STRUCTURES,DDF

LEN = 1000.00 (mm) FY = 412. FC = 20. SIZE = 150.00 X 200.00 (mm)

LEVEL	HEIGHT (mm)	BAR INFO	FROM (mm)	TO (mm)	ANCHOR STA	ANCHOR END
1	42.	2 - 2.NM	0.	1000.	YES	YES

CRITICAL POS MOMENT= 1.13 kNm AT 500.00 (mm) LOAD 1

REQD STEEL= 39.29 (mm<sup>2</sup>) ROW=0.0017 ROWMX=0.0152 ROWMN=0.0018

REQD COMP STEEL= 0.00 (mm<sup>2</sup>)

MAX/MIN/ACTUAL BAR SPACING= 66.22/ 37.90/ 66.22 (mm)

COMP MAX/MIN/ACTUAL BAR SPACING= 0.00/ 0.00/ 0.00 (mm)

BASIC/REQD. DEVELOPMENT LENGTH = 199.08/ 178.30 (mm)

Cracked Moment of Inertia Iz at above location =0.13657E+08 mm<sup>4</sup>

Concrete Design - Whole Structure

Current Code: Mexican

- STAAD SPACE
- START JOB INFORMATION
- INPUT WIDTH 79
- UNIT METER KG
- JOINT COORDINATES
- MEMBER INCIDENCES
- DEFINE MATERIAL START
- MEMBER PROPERTY
- CONSTANTS
- SUPPORTS
- LOAD 1 LOADTYPE None TITLE CM-CV
- PERFORM ANALYSIS
- START CONCRETE DESIGN
  - CODE MEXICAN
  - FC 2.00014e+006
  - TRACK 2
  - DESIGN BEAM
  - END CONCRETE DESIGN
- FINISH

Highlight Assigned Geometry

Toggle Assign

Assignment Method

Assign To Selected Beams

Assign To View

Use Cursor To Assign

Assign To Edit List

1

Assign Close Help

Modeling Mo: Load 1: CM-CV Input Units: kg-m

STAAD.Pro V8i (SELECTseries 6) - Cerramiento 3

Cerramiento 3.a.r1 - STAAD Output Viewer

File Edit View Help

\*\*\*WARNING - INSTABILITY AT JOINT

Cracked Moment of Inertia Iz at above location =0.13657E+08 mm<sup>4</sup>

REQUIRED REINF. STEEL SUMMARY :

SECTION (MM)	REINF STEEL (+VE/-VE) (SQ. MM)	MOMENTS (+VE/-VE) (KNS-MET)	LOAD (+VE/-VE)
0.00	0.00/ 0.00	0./ 0.00	0/ 1
83.33	39.29/ 0.00	0./ 0.00	1/ 0
166.67	39.29/ 0.00	1./ 0.00	1/ 0
250.00	39.29/ 0.00	1./ 0.00	1/ 0
333.33	39.29/ 0.00	1./ 0.00	1/ 0
416.67	39.29/ 0.00	1./ 0.00	1/ 0
500.00	39.29/ 0.00	1./ 0.00	1/ 0
583.33	39.29/ 0.00	1./ 0.00	1/ 0
666.67	39.29/ 0.00	1./ 0.00	1/ 0
750.00	39.29/ 0.00	1./ 0.00	1/ 0
833.33	39.29/ 0.00	1./ 0.00	1/ 0
916.67	39.29/ 0.00	0./ 0.00	1/ 0
1000.00	0.00/ 0.00	0./ 0.00	0/ 1

BEAM NO. 1 DESIGN RESULTS - SHEAR

Concrete Design - Whole Structure

Current Code: Mexican

- STAAD SPACE
- START JOB INFORMATION
- INPUT WIDTH 79
- UNIT METER KG
- JOINT COORDINATES
- MEMBER INCIDENCES
- DEFINE MATERIAL START
- MEMBER PROPERTY
- CONSTANTS
- SUPPORTS
- LOAD 1 LOADTYPE None TITLE CM-CV
- PERFORM ANALYSIS
- START CONCRETE DESIGN
  - CODE MEXICAN
  - FC 2.00014e+006
  - TRACK 2
  - DESIGN BEAM
  - END CONCRETE DESIGN
- FINISH

Highlight Assigned Geometry

Toggle Assign

Assignment Method

Assign To Selected Beams

Assign To View

Use Cursor To Assign

Assign To Edit List

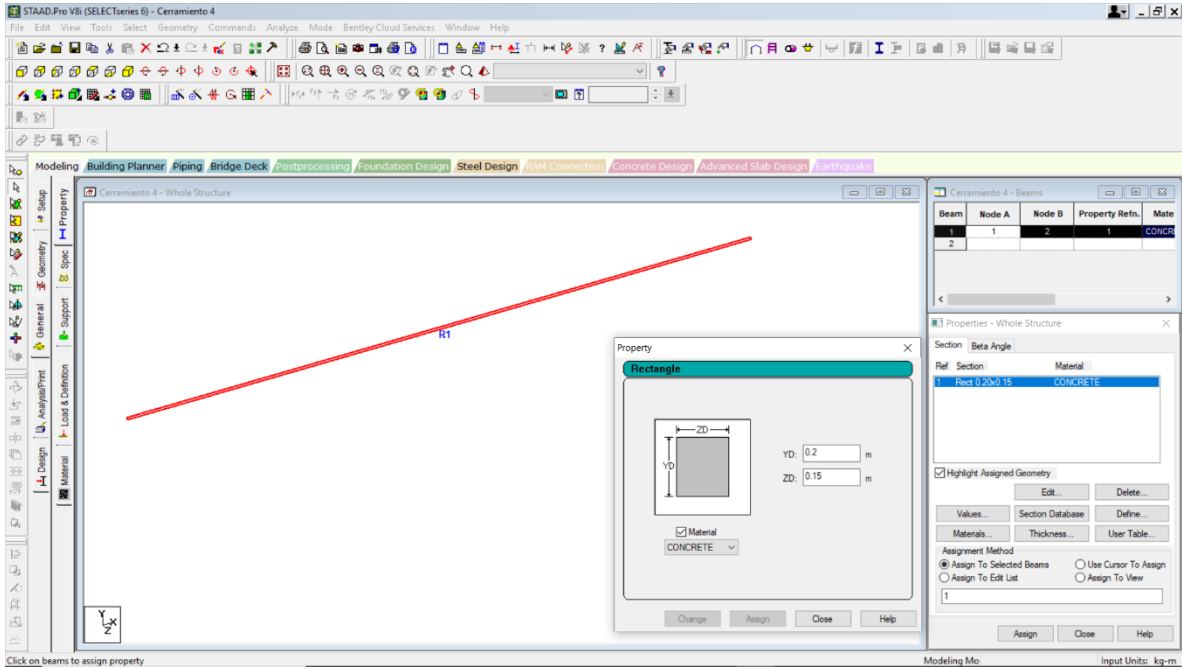
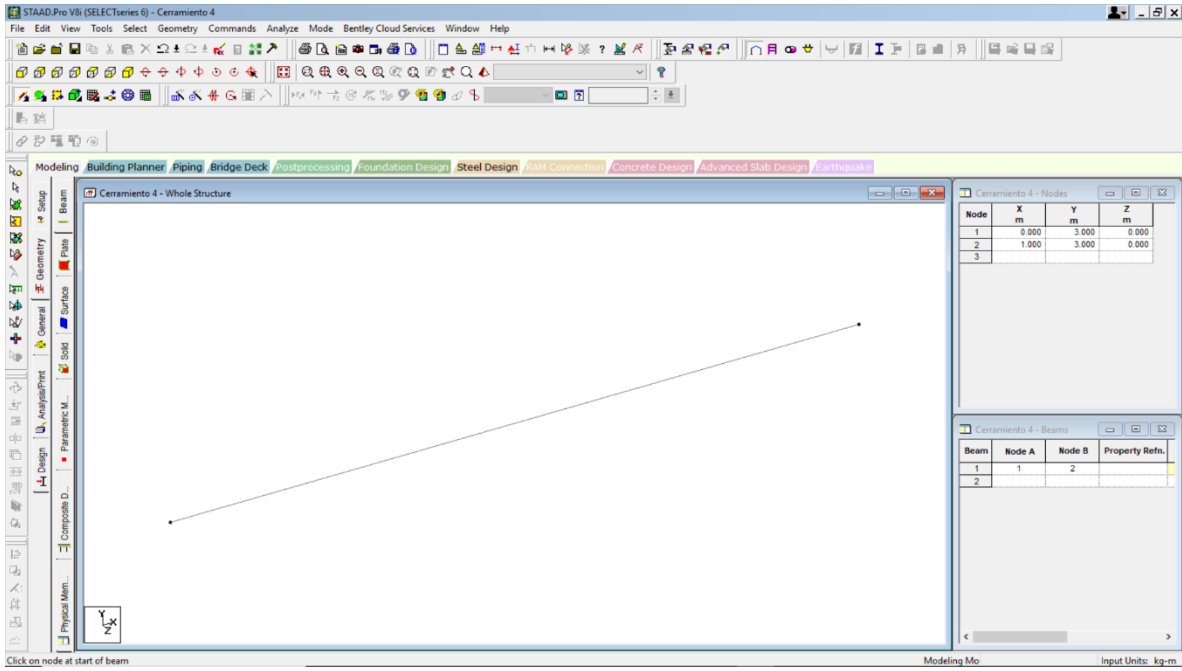
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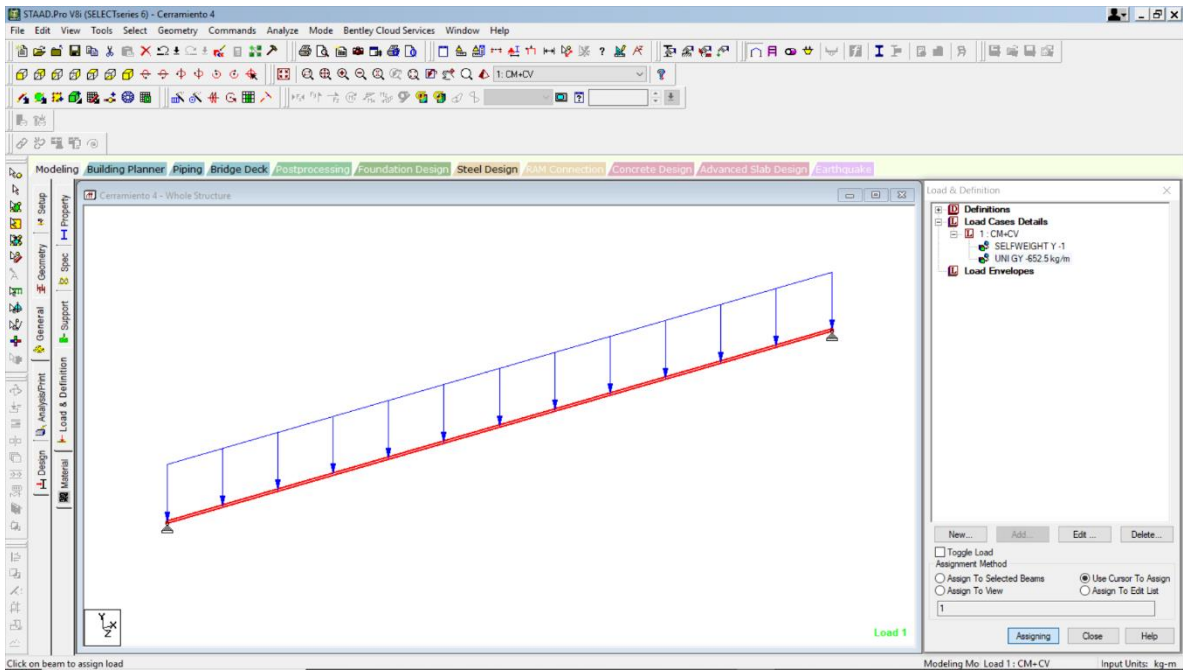
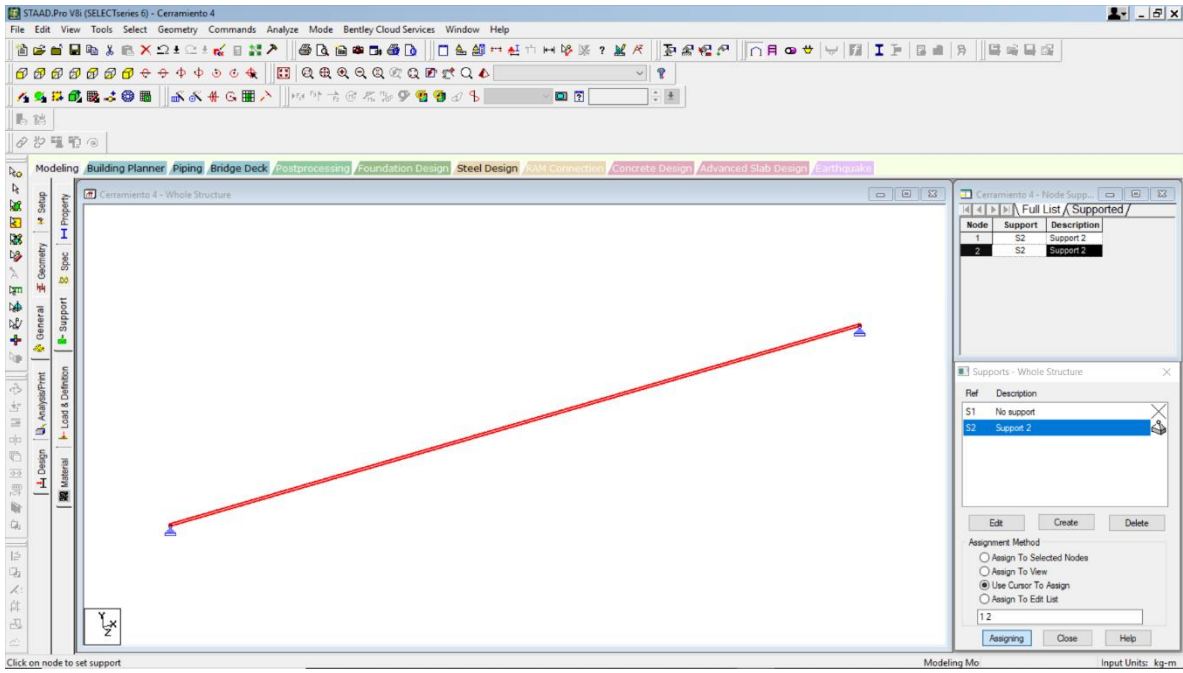
Assign Close Help

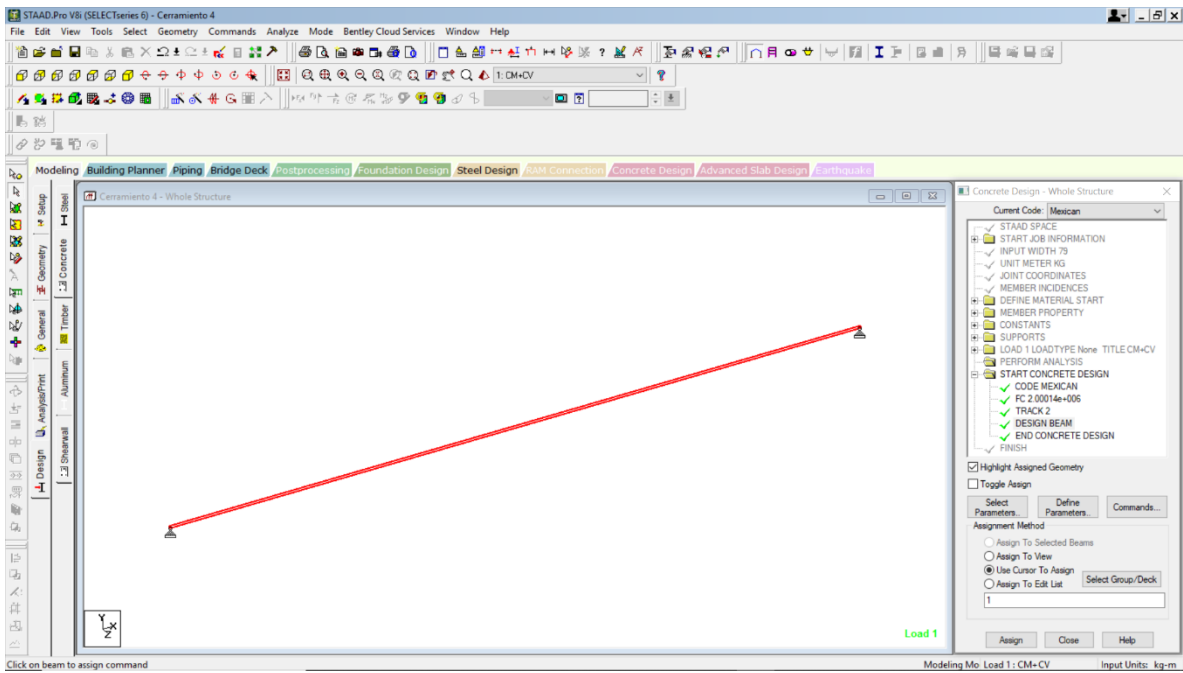
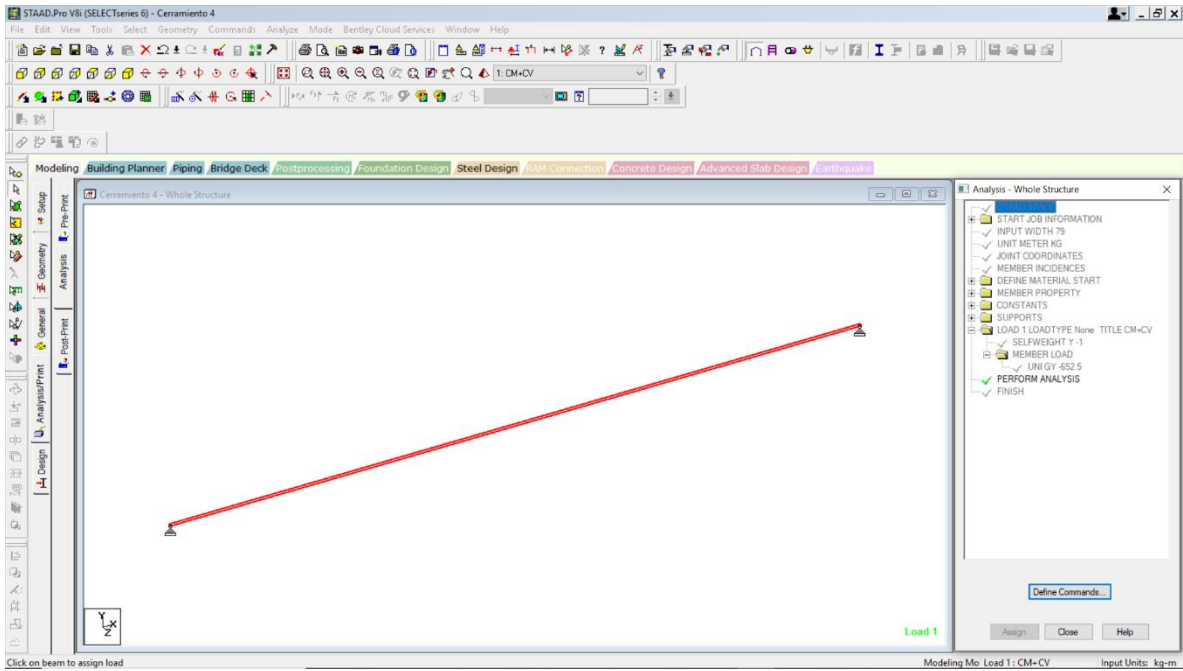
Modeling Mo: Load 1: CM-CV Input Units: kg-m

Capturas de pantalla guardadas  
La captura de pantalla se agregó a tu OneDrive.  
OneDrive

# Cerramiento 4 (C-4)







STAAD.Pro V8i (SELECTseries 6) - Cerramiento 4

Cerramiento 4.ani - STAAD Output Viewer

STAAD SPACE -- PAGE NO. 3

WARNING  
\*\*\*WARNING - INSTABILITY AT JOINT

BEAM NO. 1 DESIGN RESULTS - FLEXURE

PER CODE NYC FOR THE DESIGN AND CONSTRUCTION OF CONCRETE STRUCTURES, DDF

LEN = 1000.00 (mm) FY = 412. FC = 20. SIZE = 150.00 X 200.00 (mm)

LEVEL	HEIGHT (mm)	BAR INFO	FROM (mm)	TO (mm)	ANCHOR STA	END
1	42.	2 - 2.M4	0.	1000.	YES	YES

CRITICAL POS MOMENT= 0.89 kNm AT 500.00 (mm) LOAD 1 |  
 REQD STEEL= 35.29 (mm<sup>2</sup>) ROW=0.0017 ROWMX=0.0152 ROWMN=0.0018 |  
 REQD COMP STEEL= 0.00 (mm<sup>2</sup>) |  
 MAX/MIN/ACTUAL BAR SPACING= 66.22/ 37.50/ 66.22 (mm) |  
 COMP MAX/MIN/ACTUAL BAR SPACING= 0.00/ 0.00/ 0.00 (mm) |  
 BASIC/REQD. DEVELOPMENT LENGTH = 199.08/ 178.30 (mm) |

Concrete Design - Whole Structure

Current Code: Mexican

- UNIT METER KG
- JOINT COORDINATES
- MEMBER INCIDENCES
- DEFINE MATERIAL START
  - ISOTROPIC CONCRETE
    - E 2.21467e+009
    - POISSON 0.17
    - DENSITY 2402.62
    - ALPHA 1e-005
    - DAMP 0.05
    - TYPE CONCRETE
    - STRENGTH FCU 2.81228e+006
  - END DEFINE MATERIAL
- MEMBER PROPERTY
  - PRIS YD 0.2 ZD 0.15
- CONSTANTS
- MATERIAL CONCRETE
- SUPPORTS

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

1

Assign Close Help

Load 1

Modeling Mo Load 1: CM+CV Input Units: kg-m

STAAD.Pro V8i (SELECTseries 6) - Cerramiento 4

Cerramiento 4.ani - STAAD Output Viewer

WARNING  
\*\*\*WARNING - INSTABILITY AT JOINT

COMP MAX/MIN/ACTUAL BAR SPACING= 0.00/ 0.00/ 0.00 (mm) |  
 BASIC/REQD. DEVELOPMENT LENGTH = 199.08/ 178.30 (mm) |

Cracked Moment of Inertia Iz at above location = 0.13657E+08 mm<sup>4</sup>

REQUIRED REINF. STEEL SUMMARY :

SECTION ( MM )	REINF STEEL (+VE/-VE) (SQ. MM)	MOMENTS (+VE/-VE) (KNB-MET)	LOAD (+VE/-VE)	
0.00	0.00/ 0.00	0./ 0.00	0/ 1	
83.33	39.29/ 0.00	0./ 0.00	1/ 0	
166.67	39.29/ 0.00	0./ 0.00	1/ 0	
250.00	39.29/ 0.00	1./ 0.00	1/ 0	
333.33	39.29/ 0.00	1./ 0.00	1/ 0	
416.67	39.29/ 0.00	1./ 0.00	1/ 0	
500.00	39.29/ 0.00	1./ 0.00	1/ 0	
583.33	39.29/ 0.00	1./ 0.00	1/ 0	
666.67	39.29/ 0.00	1./ 0.00	1/ 0	
750.00	39.29/ 0.00	1./ 0.00	1/ 0	
833.33	39.29/ 0.00	0./ 0.00	1/ 0	
916.67	39.29/ 0.00	0./ 0.00	1/ 0	
1000.00	0.00/ 0.00	0./ 0.00	0/ 1	

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Load 1

Modeling Mo Load 1: CM+CV Input Units: kg-m

Capturas de pantalla guardadas  
 La captura de pantalla se agregó a tu OneDrive.  
 OneDrive