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S T O R Y   D A T A

| STORY  | SIMILAR TO | HEIGHT  | ELEVATION |
|--------|------------|---------|-----------|
| STORY1 | None       | 410.000 | 410.000   |
| BASE   | None       |         | 0.000     |

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C O O R D I N A T E   S Y S T E M   L O C A T I O N   D A T A

| NAME   | TYPE      | X     | Y     | ROTATION | BUBBLESIZE | VISIBLE |
|--------|-----------|-------|-------|----------|------------|---------|
| GLOBAL | Cartesian | 0.000 | 0.000 | 0.00000  | 125.000    | Yes     |

C O O R D I N A T E   S Y S T E M   G R I D   D A T A

| SYSTEM NAME | GRID DIR | GRID ID | GRID TYPE | GRID HIDE | BUBBLE LOC | GRID COORDINATE |
|-------------|----------|---------|-----------|-----------|------------|-----------------|
| GLOBAL      | X        | A       | Primary   | No        | Top        | 0.000           |
| GLOBAL      | X        | B       | Primary   | No        | Top        | 868.000         |
| GLOBAL      | X        | C       | Primary   | No        | Top        | 1833.000        |
| GLOBAL      | X        | D       | Primary   | No        | Top        | 2667.000        |
| GLOBAL      | Y        | 1       | Primary   | No        | Left       | 0.000           |
| GLOBAL      | Y        | 2       | Primary   | No        | Left       | 776.000         |

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P O I N T   C O O R D I N A T E S

| POINT | X        | Y       | DZ-BELOW |
|-------|----------|---------|----------|
| 1     | 0.000    | 776.000 | 0.000    |
| 2     | 0.000    | 0.000   | 0.000    |
| 3     | 868.000  | 0.000   | 0.000    |
| 4     | 868.000  | 776.000 | 0.000    |
| 5     | 1833.000 | 0.000   | 0.000    |
| 6     | 1833.000 | 776.000 | 0.000    |
| 7     | 2667.000 | 776.000 | 0.000    |
| 8     | 2667.000 | 0.000   | 0.000    |

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C O L U M N   C O N N E C T I V I T Y   D A T A

| COLUMN | I END PT | J END PT | I END STORY |
|--------|----------|----------|-------------|
| C1     | 1        | 1        | Below       |
| C2     | 2        | 2        | Below       |
| C3     | 3        | 3        | Below       |
| C4     | 4        | 4        | Below       |
| C5     | 5        | 5        | Below       |
| C6     | 6        | 6        | Below       |
| C7     | 7        | 7        | Below       |
| C8     | 8        | 8        | Below       |

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B E A M   C O N N E C T I V I T Y   D A T A

| BEAM | I END PT | J END PT |
|------|----------|----------|
| B1   | 2        | 1        |
| B2   | 3        | 4        |
| B3   | 5        | 6        |
| B4   | 8        | 7        |
| B5   | 2        | 8        |
| B6   | 1        | 7        |

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F L O O R   C O N N E C T I V I T Y   D A T A

| FLOOR | POINT | POINT | POINT | POINT |
|-------|-------|-------|-------|-------|
| F1    | 2     | 3     | 4     | 1     |
| F2    | 3     | 5     | 6     | 4     |

F3            5            8            7            6

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M A S S   S O U R C E   D A T A

MASS            LATERAL       LUMP MASS  
FROM            MASS ONLY       AT STORIES

Loads           Yes            Yes

M A S S   S O U R C E   L O A D S

LOAD            MULTIPLIER

DEAD            1.0000

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G R O U P   M A S S   D A T A

| GROUP<br>NAME | SELF<br>MASS | SELF<br>WEIGHT | TOTAL<br>MASS-X | TOTAL<br>MASS-Y | TOTAL<br>MASS-Z |
|---------------|--------------|----------------|-----------------|-----------------|-----------------|
| ALL           | 0.0000       | 54855.878      | 150.9053        | 150.9053        | 0.0000          |

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M A T E R I A L   L I S T   B Y   E L E M E N T   T Y P E

| ELEMENT<br>TYPE | MATERIAL | TOTAL<br>MASS<br>tons | NUMBER<br>PIECES | NUMBER<br>STUDS |
|-----------------|----------|-----------------------|------------------|-----------------|
| Column          | CONC21   | 19.68                 | 8                |                 |
| Beam            | CONC21   | 24.41                 | 6                | 0               |
| Floor           | CUBIERTA | 10.76                 |                  |                 |

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M A T E R I A L   L I S T   B Y   S E C T I O N

| SECTION     | ELEMENT<br>TYPE | NUMBER<br>PIECES | TOTAL<br>LENGTH<br>meters | TOTAL<br>MASS<br>tons | NUMBER<br>STUDS |
|-------------|-----------------|------------------|---------------------------|-----------------------|-----------------|
| COLUMNAS50X | Column          | 8                | 32.800                    | 19.68                 |                 |
| VIGA25X50   | Beam            | 6                | 84.380                    | 24.41                 | 0               |
| CUBIERTA    | Floor           |                  |                           | 10.76                 |                 |

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M A T E R I A L   L I S T   B Y   S T O R Y

| STORY  | ELEMENT<br>TYPE | MATERIAL | TOTAL<br>WEIGHT<br>tons | FLOOR<br>AREA<br>m2 | UNIT<br>WEIGHT<br>kg/m2 | NUMBER<br>PIECES | NUMBER<br>STUDS |
|--------|-----------------|----------|-------------------------|---------------------|-------------------------|------------------|-----------------|
| STORY1 | Column          | CONC21   | 19.68                   | 206.959             | 95.0912                 | 8                |                 |
| STORY1 | Beam            | CONC21   | 24.41                   | 206.959             | 117.9653                | 6                | 0               |
| STORY1 | Floor           | CUBIERTA | 10.76                   | 206.959             | 52.0000                 |                  |                 |
| SUM    | Column          | CONC21   | 19.68                   | 206.959             | 95.0912                 | 8                |                 |
| SUM    | Beam            | CONC21   | 24.41                   | 206.959             | 117.9653                | 6                | 0               |
| SUM    | Floor           | CUBIERTA | 10.76                   | 206.959             | 52.0000                 |                  |                 |
| TOTAL  | All             | All      | 54.86                   | 206.959             | 265.0565                | 14               | 0               |

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M A T E R I A L   P R O P E R T Y   D A T A

| MATERIAL<br>NAME | MATERIAL<br>TYPE | DESIGN<br>TYPE | MATERIAL<br>DIR/PLANE | MODULUS OF<br>ELASTICITY | POISSON'S<br>RATIO | THERMAL<br>COEFF | SHEAR<br>MODULUS |
|------------------|------------------|----------------|-----------------------|--------------------------|--------------------|------------------|------------------|
| STEEL            | Iso              | Steel          | All                   | 2038901.916              | 0.3000             | 1.1700E-05       | 784193.045       |
| CONC21           | Iso              | Concrete       | All                   | 215400.000               | 0.2000             | 9.9000E-06       | 89750.000        |
| OTHER            | Iso              | None           | All                   | 2038901.916              | 0.3000             | 1.1700E-05       | 784193.045       |
| CUBIERTA         | Iso              | None           | All                   | 0.300                    | 0.2000             | 9.9000E-06       | 0.125            |

M A T E R I A L   P R O P E R T Y   M A S S   A N D   W E I G H T

| MATERIAL<br>NAME | MASS PER<br>UNIT VOL | WEIGHT PER<br>UNIT VOL |
|------------------|----------------------|------------------------|
| STEEL            | 7.9814E-06           | 7.8334E-03             |
| CONC21           | 2.4500E-06           | 2.4000E-03             |
| OTHER            | 7.9814E-06           | 7.8334E-03             |
| CUBIERTA         | 1.0000E-06           | 1.0000E-03             |

M A T E R I A L   D E S I G N   D A T A   F O R   S T E E L   M A T E R I A L S

| MATERIAL<br>NAME | STEEL<br>FY | STEEL<br>FU | STEEL<br>COST (\$) |
|------------------|-------------|-------------|--------------------|
| STEEL            | 3515.348    | 4569.953    | 27679906.54        |

M A T E R I A L   D E S I G N   D A T A   F O R   C O N C R E T E   M A T E R I A L S

| MATERIAL<br>NAME | LIGHTWEIGHT<br>CONCRETE | CONCRETE<br>FC | REBAR<br>FY | REBAR<br>FYS | LIGHTWT<br>REDUC FACT |
|------------------|-------------------------|----------------|-------------|--------------|-----------------------|
| CONC21           | No                      | 210.000        | 4200.000    | 4200.000     | N/A                   |

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F R A M E   S E C T I O N   P R O P E R T Y   D A T A

| FRAME SECTION NAME | MATERIAL<br>NAME | SECTION SHAPE NAME OR NAME<br>IN SECTION DATABASE FILE | CONC<br>COL | CONC<br>BEAM |
|--------------------|------------------|--------------------------------------------------------|-------------|--------------|
| COLUMNAS50X50      | CONC21           | Rectangular                                            | Yes         |              |
| VIGA25X50          | CONC21           | Rectangular                                            |             | Yes          |

F R A M E   S E C T I O N   P R O P E R T Y   D A T A

| FRAME SECTION NAME | SECTION<br>DEPTH | FLANGE<br>WIDTH TOP | FLANGE<br>THICK TOP | WEB<br>THICK | FLANGE<br>WIDTH BOT | FLANGE<br>THICK BOT |
|--------------------|------------------|---------------------|---------------------|--------------|---------------------|---------------------|
| COLUMNAS50X50      | 50.0000          | 50.0000             | 0.0000              | 0.0000       | 0.0000              | 0.0000              |
| VIGA25X50          | 50.0000          | 25.0000             | 0.0000              | 0.0000       | 0.0000              | 0.0000              |

F R A M E   S E C T I O N   P R O P E R T Y   D A T A

| FRAME SECTION NAME | SECTION<br>AREA | TORSIONAL<br>CONSTANT | MOMENTS OF INERTIA |             | SHEAR AREAS |           |
|--------------------|-----------------|-----------------------|--------------------|-------------|-------------|-----------|
|                    |                 |                       | I33                | I22         | A2          | A3        |
| COLUMNAS50X50      | 2500.0000       | 880208.3748           | 520833.3333        | 520833.3333 | 2083.3333   | 2083.3333 |
| VIGA25X50          | 1250.0000       | 178812.6653           | 260416.6667        | 65104.1667  | 1041.6667   | 1041.6667 |

F R A M E   S E C T I O N   P R O P E R T Y   D A T A

| FRAME SECTION NAME | SECTION MODULI |            | PLASTIC MODULI |            | RADIUS OF GYRATION |         |
|--------------------|----------------|------------|----------------|------------|--------------------|---------|
|                    | S33            | S22        | Z33            | Z22        | R33                | R22     |
| COLUMNAS50X50      | 20833.3333     | 20833.3333 | 31250.0000     | 31250.0000 | 14.4338            | 14.4338 |
| VIGA25X50          | 10416.6667     | 5208.3333  | 15625.0000     | 7812.5000  | 14.4338            | 7.2169  |

F R A M E   S E C T I O N   W E I G H T S   A N D   M A S S E S

| FRAME SECTION NAME | TOTAL<br>WEIGHT | TOTAL<br>MASS |
|--------------------|-----------------|---------------|
| COLUMNAS50X50      | 19680.0000      | 20.0900       |
| VIGA25X50          | 24414.0000      | 24.9226       |

C O N C R E T E   C O L U M N   D A T A

| FRAME SECTION NAME | REINF CONFIGURATION |         | REINF<br>SIZE/TYPE | NUM BARS<br>3DIR/2DIR | NUM BARS<br>CIRCULAR | BAR<br>COVER |
|--------------------|---------------------|---------|--------------------|-----------------------|----------------------|--------------|
|                    | LONGIT              | LATERAL |                    |                       |                      |              |
| COLUMNAS50X50      | Rectangular Ties    |         | #6/Check           | 3/3                   | N/A                  | 4.0000       |

C O N C R E T E   B E A M   D A T A

| FRAME SECTION NAME | TOP<br>COVER | BOT<br>COVER | TOP LEFT<br>AREA | TOP RIGHT<br>AREA | BOT LEFT<br>AREA | BOT RIGHT<br>AREA |
|--------------------|--------------|--------------|------------------|-------------------|------------------|-------------------|
| VIGA25X50          | 5.0000       | 5.0000       | 0.000            | 0.000             | 0.000            | 0.000             |

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S H E L L   S E C T I O N   P R O P E R T Y   D A T A

| SHELL<br>SECTION | MATERIAL<br>NAME | SHELL<br>TYPE | LOAD DIST<br>ONE WAY | MEMBRANE<br>THICK | BENDING<br>THICK | TOTAL<br>WEIGHT | TOTAL<br>MASS |
|------------------|------------------|---------------|----------------------|-------------------|------------------|-----------------|---------------|
| WALL1            | CONC21           | Shell-Thin    | No                   | 25.0000           | 25.0000          | 0.0000          | 0.0000        |
| CUBIERTA         | CUBIERTA         | Shell-Thin    | No                   | 5.2000            | 5.2000           | 10761.8784      | 10.7619       |
| DECK1            | CONC21           | Membrane      | No                   | 8.8900            | 8.8900           | 0.0000          | 0.0000        |
| PLANK1           | CONC21           | Membrane      | Yes                  | 25.0000           | 25.0000          | 0.0000          | 0.0000        |

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S T A T I C   L O A D   C A S E S

| STATIC<br>CASE | CASE<br>TYPE | AUTO LAT<br>LOAD | SELF WT<br>MULTIPLIER | NOTIONAL<br>FACTOR | NOTIONAL<br>DIRECTION |
|----------------|--------------|------------------|-----------------------|--------------------|-----------------------|
| DEAD           | DEAD         | N/A              | 1.0000                |                    |                       |
| LIVE           | LIVE         | N/A              | 0.0000                |                    |                       |

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R E S P O N S E   S P E C T R U M   C A S E S

RESP SPEC CASE: EX

BASIC RESPONSE SPECTRUM DATA

| MODAL<br>COMBO | DIRECTION<br>COMBO | MODAL<br>DAMPING | SPECTRUM<br>ANGLE | TYPICAL<br>ECCEN |
|----------------|--------------------|------------------|-------------------|------------------|
| CQC            | SRSS               | 0.0500           | 0.0000            | 0.0000           |

RESPONSE SPECTRUM FUNCTION ASSIGNMENT DATA

| DIRECTION | FUNCTION   | SCALE FACT |
|-----------|------------|------------|
| U1        | ALBANTIPOC | 981.0000   |
| U2        | ----       | N/A        |
| UZ        | ----       | N/A        |

RESP SPEC CASE: EY

BASIC RESPONSE SPECTRUM DATA

| MODAL<br>COMBO | DIRECTION<br>COMBO | MODAL<br>DAMPING | SPECTRUM<br>ANGLE | TYPICAL<br>ECCEN |
|----------------|--------------------|------------------|-------------------|------------------|
| CQC            | SRSS               | 0.0500           | 0.0000            | 0.0000           |

RESPONSE SPECTRUM FUNCTION ASSIGNMENT DATA

| DIRECTION | FUNCTION   | SCALE FACT |
|-----------|------------|------------|
| U1        | ----       | N/A        |
| U2        | ALBANTIPOC | 981.0000   |
| UZ        | ----       | N/A        |

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L O A D I N G   C O M B I N A T I O N S

| COMBO | COMBO<br>TYPE | CASE<br>TYPE | SCALE<br>FACTOR |
|-------|---------------|--------------|-----------------|
| DER1  | ADD           | DEAD         | Static          |
|       |               | LIVE         | Static          |
| DER2  | ADD           | DEAD         | Static          |
|       |               | LIVE         | Static          |

|        |      |      |         |         |
|--------|------|------|---------|---------|
| DER3   | ADD  | EX   | Spectra | 1.0000  |
|        |      | DEAD | Static  | 1.2000  |
|        |      | LIVE | Static  | 1.0000  |
| DER4   | ADD  | EX   | Spectra | -1.0000 |
|        |      | DEAD | Static  | 1.2000  |
|        |      | LIVE | Static  | 1.0000  |
| DER5   | ADD  | EY   | Spectra | 1.0000  |
|        |      | DEAD | Static  | 1.2000  |
|        |      | LIVE | Static  | 1.0000  |
| DER6   | ADD  | EY   | Spectra | -1.0000 |
|        |      | DEAD | Static  | 0.9000  |
| DER7   | ADD  | EX   | Spectra | 1.0000  |
|        |      | DEAD | Static  | 0.9000  |
| DER8   | ADD  | EX   | Spectra | -1.0000 |
|        |      | DEAD | Static  | 0.9000  |
| DER9   | ADD  | EY   | Spectra | 1.0000  |
|        |      | DEAD | Static  | 0.9000  |
|        |      | EY   | Spectra | -1.0000 |
| COMB1  | ADD  | DEAD | Static  | 1.4000  |
| COMB2  | ADD  | DEAD | Static  | 1.2000  |
|        |      | LIVE | Static  | 1.6000  |
| COMB3  | ADD  | DEAD | Static  | 1.2000  |
|        |      | LIVE | Static  | 1.0000  |
|        |      | EX   | Spectra | 0.2590  |
|        |      | EY   | Spectra | 0.0940  |
| COMB4  | ADD  | DEAD | Static  | 1.2000  |
|        |      | LIVE | Static  | 1.0000  |
|        |      | EX   | Spectra | 0.2590  |
|        |      | EY   | Spectra | -0.0940 |
| COMB5  | ADD  | DEAD | Static  | 1.2000  |
|        |      | LIVE | Static  | 1.0000  |
|        |      | EX   | Spectra | -0.2590 |
|        |      | EY   | Spectra | 0.0940  |
| COMB6  | ADD  | DEAD | Static  | 1.2000  |
|        |      | LIVE | Static  | 1.0000  |
|        |      | EX   | Spectra | -0.2590 |
|        |      | EY   | Spectra | -0.0940 |
| COMB7  | ADD  | DEAD | Static  | 1.2000  |
|        |      | LIVE | Static  | 1.0000  |
|        |      | EX   | Spectra | 0.0780  |
|        |      | EY   | Spectra | 0.3130  |
| COMB8  | ADD  | DEAD | Static  | 1.2000  |
|        |      | LIVE | Static  | 1.0000  |
|        |      | EX   | Spectra | -0.0780 |
|        |      | EY   | Spectra | 0.3130  |
| COMB9  | ADD  | DEAD | Static  | 1.2000  |
|        |      | LIVE | Static  | 1.0000  |
|        |      | EX   | Spectra | 0.0780  |
|        |      | EY   | Spectra | -0.3130 |
| COMB10 | ADD  | DEAD | Static  | 1.2000  |
|        |      | LIVE | Static  | 1.0000  |
|        |      | EX   | Spectra | -0.0780 |
|        |      | EY   | Spectra | -0.3130 |
| COMB11 | ADD  | DEAD | Static  | 0.9000  |
|        |      | EX   | Spectra | 0.2590  |
|        |      | EY   | Spectra | 0.0940  |
| COMB12 | ADD  | DEAD | Static  | 0.9000  |
|        |      | EX   | Spectra | 0.2590  |
|        |      | EY   | Spectra | -0.0940 |
| COMB13 | ADD  | DEAD | Static  | 0.9000  |
|        |      | EX   | Spectra | -0.2590 |
|        |      | EY   | Spectra | 0.0940  |
| COMB14 | ADD  | DEAD | Static  | 0.9000  |
|        |      | EX   | Spectra | -0.2590 |
|        |      | EY   | Spectra | -0.0940 |
| COMB15 | ADD  | DEAD | Static  | 0.9000  |
|        |      | EX   | Spectra | 0.0780  |
|        |      | EY   | Spectra | 0.3130  |
| COMB16 | ADD  | DEAD | Static  | 0.9000  |
|        |      | EX   | Spectra | -0.0780 |
|        |      | EY   | Spectra | 0.3130  |
| COMB17 | ADD  | DEAD | Static  | 0.9000  |
|        |      | EX   | Spectra | 0.0780  |
|        |      | EY   | Spectra | -0.3130 |
| COMB18 | ADD  | DEAD | Static  | 0.9000  |
|        |      | EX   | Spectra | -0.0780 |
|        |      | EY   | Spectra | -0.3130 |
| CIM1   | ADD  | DEAD | Static  | 1.0000  |
| CIM2   | ADD  | DEAD | Static  | 1.0000  |
|        |      | LIVE | Static  | 1.0000  |
| ENVCIM | ENVE | CIM1 | Combo   | 1.0000  |
|        |      | CIM2 | Combo   | 1.0000  |

|       |     |      |         |        |
|-------|-----|------|---------|--------|
| DCON1 | ADD | DEAD | Static  | 1.4000 |
| DCON2 | ADD | DEAD | Static  | 1.2000 |
|       |     | LIVE | Static  | 1.6000 |
| DCON3 | ADD | DEAD | Static  | 1.4000 |
|       |     | LIVE | Static  | 1.0000 |
|       |     | EX   | Spectra | 1.5000 |
| DCON4 | ADD | DEAD | Static  | 1.4000 |
|       |     | LIVE | Static  | 1.0000 |
|       |     | EY   | Spectra | 1.5000 |
| DCON5 | ADD | DEAD | Static  | 0.7000 |
|       |     | EX   | Spectra | 1.5000 |
| DCON6 | ADD | DEAD | Static  | 0.7000 |
|       |     | EY   | Spectra | 1.5000 |

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R E S P O N S E S P E C T R U M F U N C T I O N - U S E R

FUNCTION NAME: ALBANTIPOC

| PERIOD | ACCEL  |
|--------|--------|
| 0.0000 | 0.5625 |
| 0.8500 | 0.5625 |
| 1.0000 | 0.4800 |
| 1.5000 | 0.3200 |
| 2.0000 | 0.2400 |
| 3.0000 | 0.1600 |
| 4.0000 | 0.1150 |
| 5.0000 | 0.0730 |