



SMART BIM SOLUTIONS FOR GROWING BUSINESSES!

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About Us

Somos una startup dinámica con sede en Colombia que ofrece soluciones basadas en BIM a nivel nacional e internacional. Con el respaldo de un equipo experto con experiencia práctica en construcción, planificación y ejecución de proyectos, ayudamos a pequeñas y medianas empresas a dar sus primeros pasos en la era digital. Nuestros servicios incluyen Estimación BIM, Modelado BIM, Gestión BIM e inspección de fachada con drones (Skytech), diseñados para facilitar la transición a la era de la información con confianza y eficiencia.

CONTINUA

MODELADO Y COORDINACIÓN BIM


COASTLAND
CONSTRUCTION

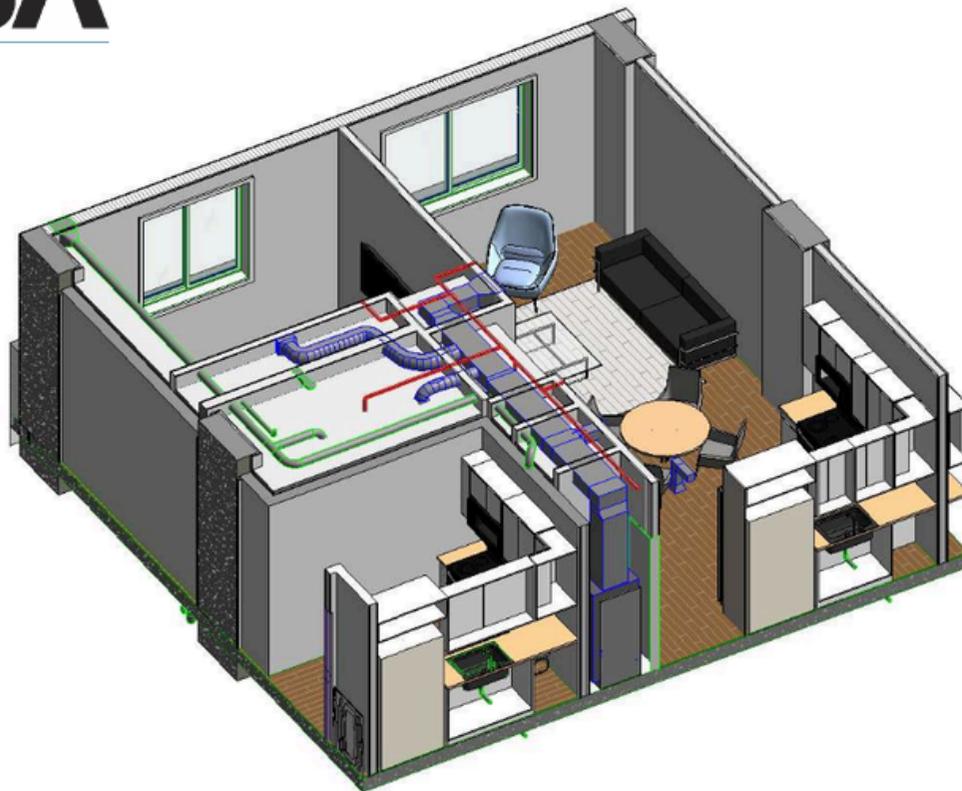


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CONTINUA

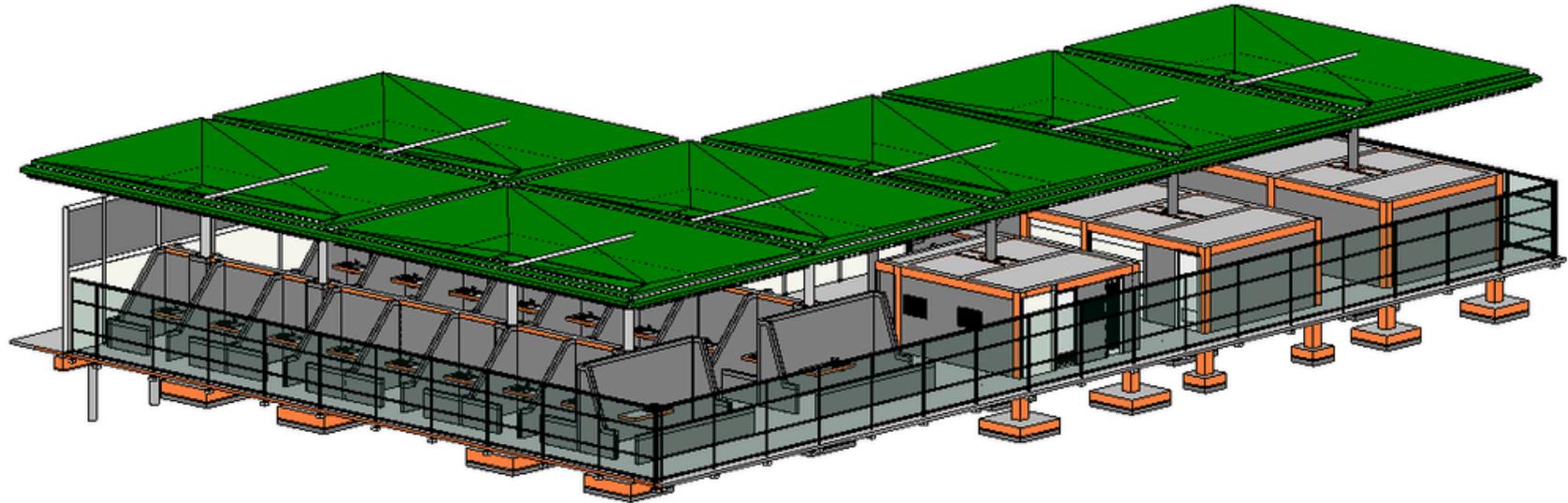
MODELADO Y COORDINACIÓN BIM



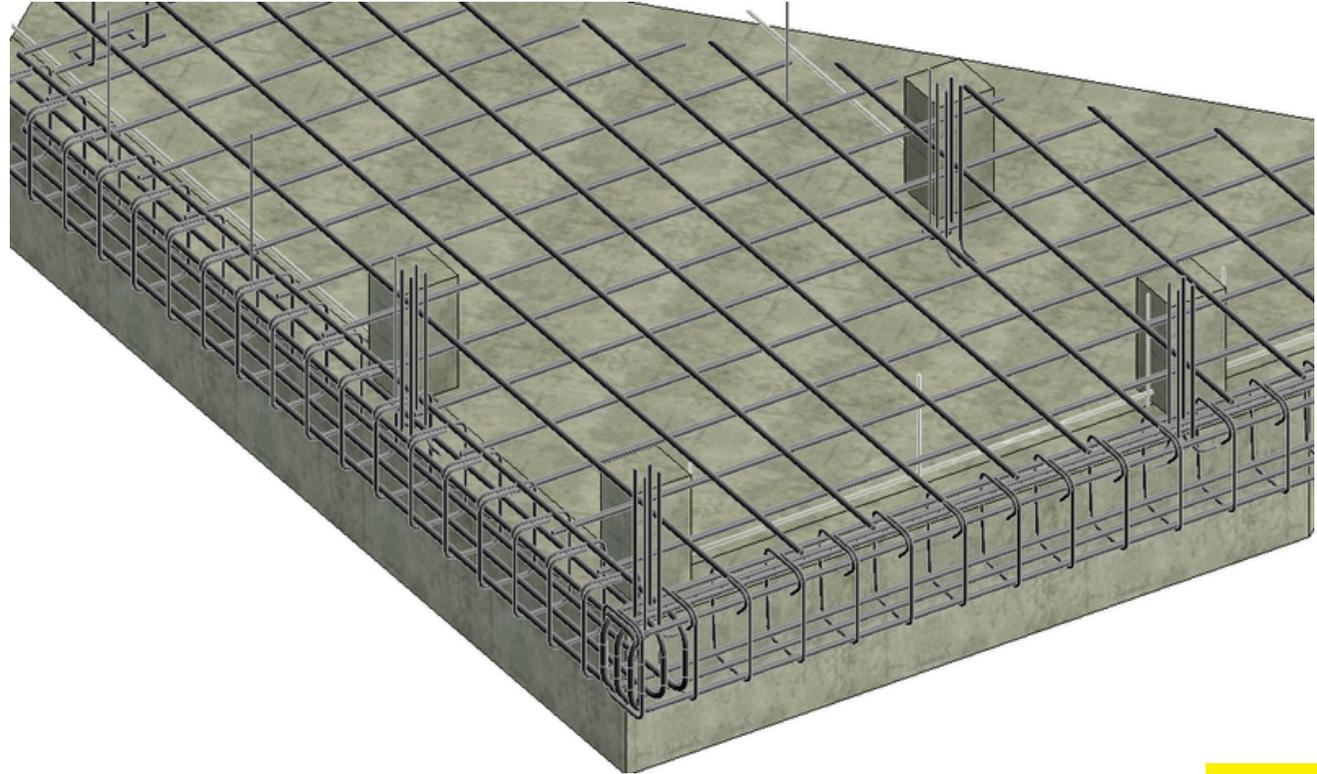
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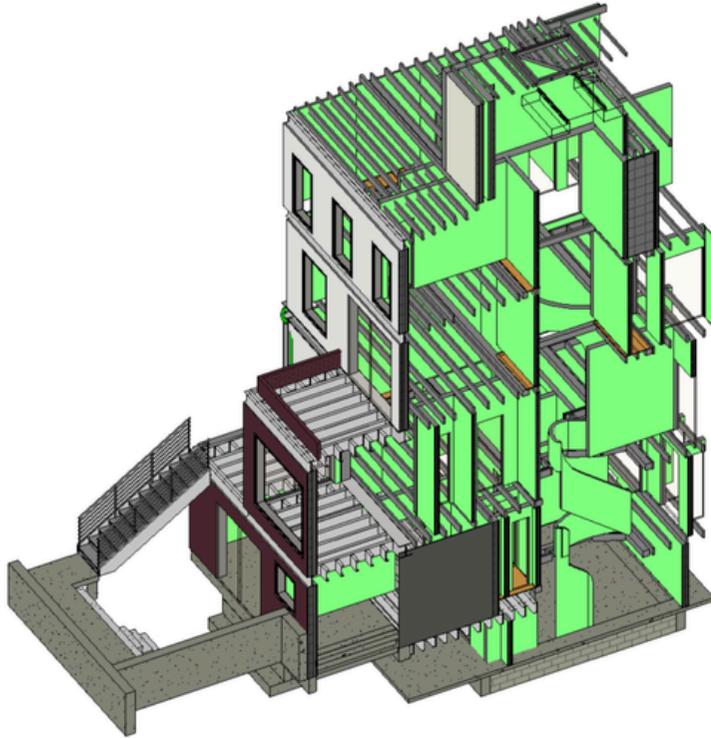
MODELADO Y COORDINACIÓN BIM



MODELADO Y COORDINACIÓN BIM - ACERO DE REFUERZO



MODELADO Y COORDINACIÓN BIM - REMODELACIÓN



CONSTRUCT

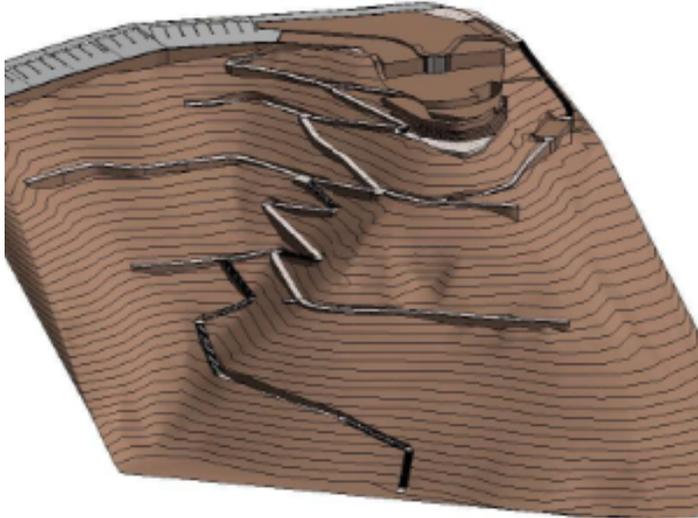


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MODELADO Y COORDINACIÓN BIM - MOVIMIENTO DE TIERRRAS



| Movimientos De tierras | | | | | | |
|------------------------|-----------------------|----------------------|---------------------|-----------------------|----------------------|----------------------|
| Comments | Name | Cut | Fill | Net cut/ill | Projected Area | Surface Area |
| Acera | 1921 Sidewalk | 6.49 m ² | 0.00 m ² | -6.49 m ² | 32.38 m ² | 32.38 m ² |
| Acera | 1921 Sidewalk | 0.03 m ² | 0.85 m ² | 0.82 m ² | 26.72 m ² | 26.72 m ² |
| Acera | 1917 Concrete Pad | 0.01 m ² | 0.03 m ² | 0.03 m ² | 0.47 m ² | 0.47 m ² |
| Acera | 1913 Concrete Pad | 0.00 m ² | 3.21 m ² | 3.21 m ² | 2.50 m ² | 2.50 m ² |
| Acera | 1913 Concrete Pad 2 | 0.00 m ² | 4.15 m ² | 4.15 m ² | 2.39 m ² | 2.39 m ² |
| Acera | 1918.5 - 1917 Ramp | 6.95 m ² | 0.00 m ² | -6.94 m ² | 4.82 m ² | 4.89 m ² |
| Acera | 1910.5 Concrete Pad | 0.21 m ² | 1.77 m ² | 1.56 m ² | 4.50 m ² | 4.50 m ² |
| Acera | 1910.5 Sidewalk | 3.95 m ² | 8.17 m ² | 4.22 m ² | 27.39 m ² | 27.39 m ² |
| Acera | 1913 - 1910.5 Ramp | 5.31 m ² | 9.27 m ² | 3.96 m ² | 25.28 m ² | 25.40 m ² |
| Acera | 1920 Concrete Pad | 0.59 m ² | 0.00 m ² | -0.59 m ² | 2.80 m ² | 2.80 m ² |
| Acera | 1918.5 Concrete Pad | 0.09 m ² | 1.00 m ² | 0.91 m ² | 2.21 m ² | 2.21 m ² |
| Acera | 1916.5 Concrete Pad 2 | 0.00 m ² | 1.21 m ² | 1.21 m ² | 2.30 m ² | 2.30 m ² |
| Acera | 1918.5 Concrete Pad | 2.83 m ² | 0.00 m ² | -2.83 m ² | 6.86 m ² | 6.86 m ² |
| Acera | 1915 Concrete Pad | 22.03 m ² | 2.28 m ² | -19.74 m ² | 44.20 m ² | 44.20 m ² |
| Acera | 1914 Concrete Pad | 0.91 m ² | 0.27 m ² | -0.64 m ² | 3.72 m ² | 3.72 m ² |
| Acera | 1908.5 Concrete Pad | 1.20 m ² | 1.60 m ² | 0.41 m ² | 7.35 m ² | 7.35 m ² |
| Acera | 1908.5 Concrete Pad | 0.38 m ² | 0.43 m ² | 0.05 m ² | 2.26 m ² | 2.26 m ² |
| Acera | 1905 Concrete Pad | 1.21 m ² | 0.06 m ² | -1.15 m ² | 2.60 m ² | 2.60 m ² |
| Acera | 1902.5 Concrete Pad | 0.31 m ² | 0.37 m ² | 0.05 m ² | 2.18 m ² | 2.18 m ² |
| Acera | 1900.5 Concrete Pad | 0.29 m ² | 0.21 m ² | -0.08 m ² | 2.37 m ² | 2.37 m ² |
| Acera | 1899.5 Concrete Pad | 0.17 m ² | 0.22 m ² | 0.05 m ² | 1.75 m ² | 1.75 m ² |
| Acera | 1896 Concrete Pad | 0.17 m ² | 0.05 m ² | -0.12 m ² | 1.33 m ² | 1.33 m ² |
| Acera | 1893 Concrete Pad | 0.86 m ² | 0.00 m ² | -0.86 m ² | 2.01 m ² | 2.01 m ² |
| Acera | 1890 Concrete Pad | 0.58 m ² | 0.00 m ² | -0.58 m ² | 1.04 m ² | 1.04 m ² |
| Acera | 1887.5 Concrete Pad | 1.10 m ² | 0.00 m ² | -1.10 m ² | 1.98 m ² | 1.98 m ² |

| Movimientos De tierras | | | | | | |
|------------------------|------------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|
| Comments | Name | Cut | Fill | Net cut/ill | Projected Area | Surface Area |
| Acera | 1885 Concrete Pad | 0.33 m ² | 0.13 m ² | -0.20 m ² | 1.97 m ² | 1.97 m ² |
| Acera | 1921 - 1918.5 Ramp | 20.54 m ² | 0.28 m ² | -20.26 m ² | 24.73 m ² | 24.92 m ² |
| Acera | 1918.5 - 1917.5 Ramp 2 | 2.09 m ² | 1.01 m ² | -1.08 m ² | 13.09 m ² | 13.12 m ² |
| Acera | 1917.5 Concrete Pad | 0.19 m ² | 0.79 m ² | 0.60 m ² | 4.34 m ² | 4.34 m ² |
| Acera | 1918.5 - 1917.5 Ramp | 0.40 m ² | 8.51 m ² | 8.11 m ² | 18.26 m ² | 18.31 m ² |
| Acera | 1917.5 - 1916.5 Ramp | 0.03 m ² | 7.03 m ² | 7.00 m ² | 19.73 m ² | 19.76 m ² |
| Acera | 1916.5 - 1914 Ramp | 0.50 m ² | 6.79 m ² | 6.29 m ² | 21.02 m ² | 21.22 m ² |
| Acera | 1914 Sidewalk | 13.64 m ² | 0.26 m ² | -13.37 m ² | 25.96 m ² | 25.96 m ² |
| Acera | 1914 - 1910.5 Ramp | 0.06 m ² | 20.48 m ² | 20.42 m ² | 30.69 m ² | 30.98 m ² |
| Acera | 1910.5 - 1908.5 Ramp | 0.98 m ² | 12.14 m ² | 11.15 m ² | 17.56 m ² | 17.73 m ² |
| Acera | 1910.5 Sidewalk 2 | 0.00 m ² | 10.42 m ² | 10.42 m ² | 8.64 m ² | 8.64 m ² |
| Acera | 1909.5 Sidewalk | 0.00 m ² | 6.53 m ² | 6.53 m ² | 8.68 m ² | 8.68 m ² |
| Acera | 1910.5 - 1909.5 Ramp | 0.00 m ² | 24.13 m ² | 24.13 m ² | 18.59 m ² | 18.63 m ² |
| Acera | 1909.5 - 1908.5 Ramp | 2.55 m ² | 10.47 m ² | 7.92 m ² | 25.34 m ² | 25.38 m ² |
| Acera | 1906.5 - 1905 Ramp | 0.73 m ² | 5.92 m ² | 5.20 m ² | 14.55 m ² | 14.67 m ² |
| Acera | 1905 - 1902.5 Ramp | 0.14 m ² | 26.22 m ² | 26.08 m ² | 21.83 m ² | 22.04 m ² |
| Acera | 1899.5 - Ramp 2 | 0.60 m ² | 1.17 m ² | 0.58 m ² | 8.57 m ² | 8.66 m ² |
| Acera | 1899.5 Sidewalk 2 | 0.07 m ² | 8.67 m ² | 8.60 m ² | 17.45 m ² | 17.45 m ² |
| Acera | 1899.5 Sidewalk | 3.60 m ² | 27.50 m ² | 23.90 m ² | 56.53 m ² | 56.53 m ² |
| Acera | 1900.5 - 1899.5 - Ramp | 0.08 m ² | 15.59 m ² | 15.52 m ² | 22.02 m ² | 22.06 m ² |
| Acera | 1890 - 1887.5 Ramp | 26.92 m ² | 0.00 m ² | -26.92 m ² | 28.24 m ² | 28.40 m ² |
| Acera | ASQUEB Concrete Pad | 0.59 m ² | 0.00 m ² | -0.59 m ² | 2.95 m ² | 2.95 m ² |
| Acera | 2021 Sidewalk | 1.40 m ² | 0.75 m ² | -0.65 m ² | 9.27 m ² | 9.27 m ² |
| Cuarto de Basuras | Dump Bldg | 4.63 m ² | 0.00 m ² | -4.63 m ² | 18.41 m ² | 18.41 m ² |
| Cuarto de Lavado | Laundry Bldg | 4.77 m ² | 14.10 m ² | 9.32 m ² | 30.62 m ² | 30.62 m ² |

| Movimientos De tierras | | | | | | |
|------------------------|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Comments | Name | Cut | Fill | Net cut/ill | Projected Area | Surface Area |
| Escalera | 1921-1917 Stairs | 0.09 m ² | 2.02 m ² | 1.93 m ² | 5.59 m ² | 6.64 m ² |
| Escalera | 1917-1913 Stairs | 0.59 m ² | 1.34 m ² | 0.75 m ² | 6.51 m ² | 7.20 m ² |
| Escalera | 1908.5 - 1906.5 Stairs | 0.61 m ² | 2.40 m ² | 1.79 m ² | 9.45 m ² | 9.76 m ² |
| Escalera | 1902.5 - 1900.5 Stairs | 0.26 m ² | 5.19 m ² | 4.93 m ² | 11.35 m ² | 11.60 m ² |
| Escalera | 1899.5 - 1896 Stairs | 0.08 m ² | 6.08 m ² | 5.99 m ² | 10.22 m ² | 11.09 m ² |
| Escalera | 1896 - 1893 Stairs | 2.92 m ² | 0.66 m ² | -2.27 m ² | 9.36 m ² | 10.05 m ² |
| Escalera | 1893 - 1890 Stairs | 1.22 m ² | 7.33 m ² | 6.11 m ² | 17.20 m ² | 17.61 m ² |
| Escalera | 1887.5 - 1885 Stairs | 2.84 m ² | 0.29 m ² | -2.55 m ² | 13.17 m ² | 13.50 m ² |
| Escalera | 1885 - 1880 Stairs | 0.06 m ² | 2.19 m ² | 2.13 m ² | 7.43 m ² | 8.82 m ² |
| Escalera Zonas Comunes | Common zones M 0 Stairs | 7.75 m ² | 0.00 m ² | -7.75 m ² | 6.31 m ² | 6.99 m ² |
| Escalator 1 | Stair 1 Pool zone | 4.98 m ² | 26.27 m ² | 21.30 m ² | 50.37 m ² | 50.37 m ² |
| Escalator 2 | Stair 2 Pool zone | 3.53 m ² | 2.44 m ² | -1.09 m ² | 16.17 m ² | 16.17 m ² |
| Escalator 3 | Stair 3 Pool zone | 4.93 m ² | 1.27 m ² | -3.67 m ² | 14.93 m ² | 14.93 m ² |
| Escalator 4 | Stair 4 Pool zone | 7.58 m ² | 0.54 m ² | -7.03 m ² | 16.26 m ² | 16.26 m ² |
| Escalator 5 | Stair 5 Pool zone | 6.45 m ² | 0.02 m ² | -6.42 m ² | 10.70 m ² | 10.70 m ² |
| Parqueadero | Parking Section 1 | 0.00 m ² | 133.23 m ² | 133.23 m ² | 152.83 m ² | 152.83 m ² |
| Parqueadero | Parking Section 3 | 10.55 m ² | 144.93 m ² | 134.38 m ² | 305.16 m ² | 305.16 m ² |
| Parqueadero | Parking Section 2 | 0.00 m ² | 519.42 m ² | 519.42 m ² | 380.62 m ² | 383.48 m ² |
| Piscina | Mechanic Room | 40.28 m ² | 0.00 m ² | -40.28 m ² | 14.40 m ² | 14.40 m ² |
| Piscina piso -1 | Pool M-1 | 33.38 m ² | 1.78 m ² | -31.60 m ² | 53.47 m ² | 53.47 m ² |
| Piscina piso -2 | Pool M-2 | 32.09 m ² | 0.00 m ² | -32.09 m ² | 33.15 m ² | 33.15 m ² |
| Zona comun Piso 0 | Common Zones M 0 | 56.83 m ² | 0.15 m ² | -56.68 m ² | 144.60 m ² | 144.60 m ² |
| Zona comun Piso 0 | Common Zones M 0 | 14.62 m ² | 0.11 m ² | -14.50 m ² | 38.64 m ² | 38.64 m ² |
| Zona comun Piso -1 | Common Zones M -1 | 234.10 m ² | 0.30 m ² | -233.8 m ² | 193.00 m ² | 193.00 m ² |



BIM MANAGEMENT - DETECCIÓN DE COLISIONES

Clash Detective

EST vs PL ⚠

Última ejecución: jueves, 27 de noviembre de 2025 12:50:36 a. m.
Conflictos: Total: 659 (abiertos: 183 cerrados: 476)

| Nombre | Estado | Confl... | Nuevo | Activo | Revisado | Aproba... | Resuelto |
|-----------|---------|----------|-------|--------|----------|-----------|----------|
| EST vs PL | Antiguo | 659 | 183 | 0 | 0 | 0 | 476 |
| PL vs PL | Antiguo | 67 | 67 | 0 | 0 | 0 | 0 |
| PL VS EL | Antiguo | 10 | 10 | 0 | 0 | 0 | 0 |

Añadir prueba Restablecer todo Compactar todo Suprimir todo Actualizar todo

Reglas Seleccionar Resultados Informe

Nuevo grupo Asignar Ninguno Volver a ejecutar prueba

| Nombre | Estado | Encontrado | Aprobado... | Aprobado | Descripción | Asignado |
|--------------|--------|---------------------|-------------|----------|-------------|----------|
| Conflicto637 | Nuevo | 00:50:36 27-11-2025 | | | Estático | |
| Conflicto625 | Nuevo | 00:50:36 27-11-2025 | | | Estático | |
| Conflicto621 | Nuevo | 00:50:36 27-11-2025 | | | Estático | |
| Conflicto502 | Nuevo | 00:50:36 27-11-2025 | | | Estático | |
| Conflicto501 | Nuevo | 00:50:36 27-11-2025 | | | Estático | |
| Conflicto500 | Nuevo | 00:50:36 27-11-2025 | | | Estático | |
| Conflicto499 | Nuevo | 00:50:36 27-11-2025 | | | Estático | |
| Conflicto396 | Nuevo | 00:50:36 27-11-2025 | | | Estático | |
| Conflicto395 | Nuevo | 00:50:36 27-11-2025 | | | Estático | |
| Conflicto324 | Nuevo | 00:50:36 27-11-2025 | | | Estático | |
| Conflicto320 | Nuevo | 00:50:36 27-11-2025 | | | Estático | |
| Conflicto318 | Nuevo | 00:50:36 27-11-2025 | | | Estático | |
| Conflicto317 | Nuevo | 00:50:36 27-11-2025 | | | Estático | |
| Conflicto314 | Nuevo | 00:50:36 27-11-2025 | | | Estático | |
| Conflicto312 | Nuevo | 00:50:36 27-11-2025 | | | Estático | |
| Conflicto310 | Nuevo | 00:50:36 27-11-2025 | | | Estático | |
| Conflicto309 | Nuevo | 00:50:36 27-11-2025 | | | Estático | |
| Conflicto304 | Nuevo | 00:50:36 27-11-2025 | | | Estático | |
| Conflicto303 | Nuevo | 00:50:36 27-11-2025 | | | Estático | |

Elementos

Configuración de visualización



BIM MANAGEMENT - REPORTE DE COLISIONES

5.2. CL-02 – Clash Structure / Civil

- **Level:** Ground floor
- **Location:** Grid L-8
- **Status:** Open

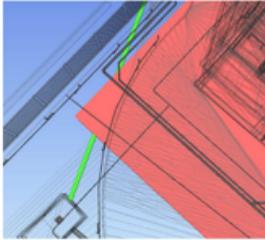


Image 1 – 3D View

- Screen shot from Navisworks
- A foundation (red) and a storm drainpipe (green) are clashing

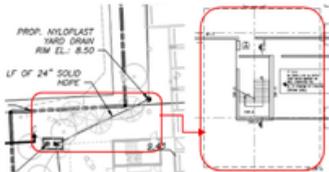


Image 2 – 2D Drawing

- Planview of the clash zone
- The clash is marked with red lines.

Description.

There is a clash between the foundation of the emergency stairs at grid L-8 and the drainage pipe running tangentially to the foundation.

5.3. CL-03 – Clash Structure / Plumbing

- **Level:** 4th floor
- **Location:** Grid G-21
- **Status:** Open

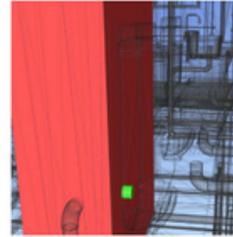


Image 1 – 3D View

- Screen shot from Navisworks
- A column (red) and a urinal (green) are clashing

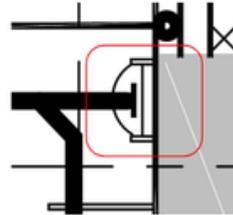


Image 2 – 2D Drawing

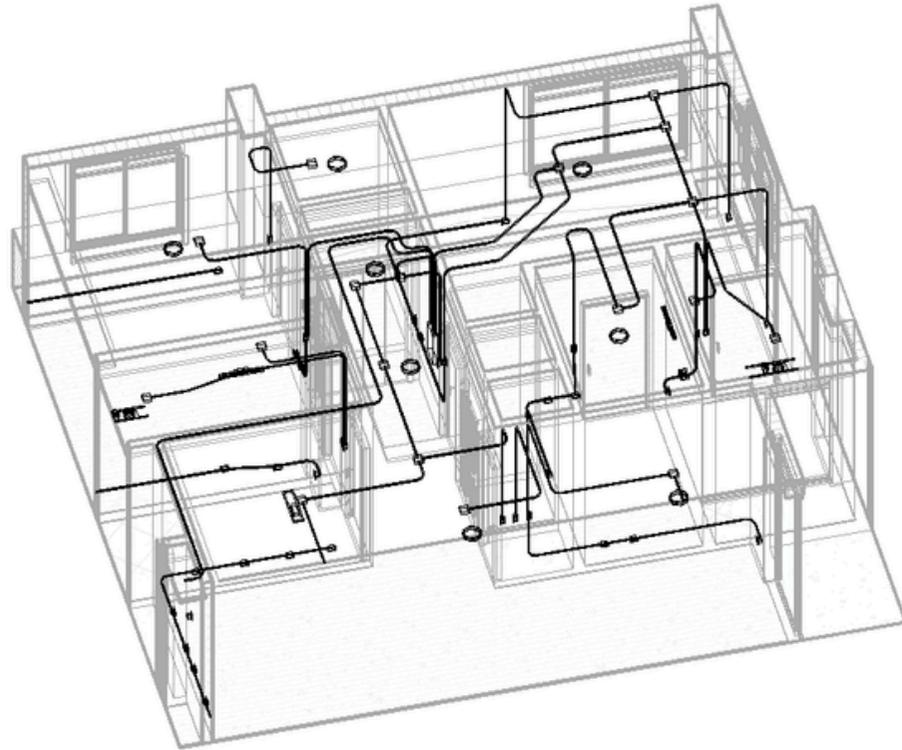
- Planview of the clash zone
- The clash is marked with red lines.

Description.

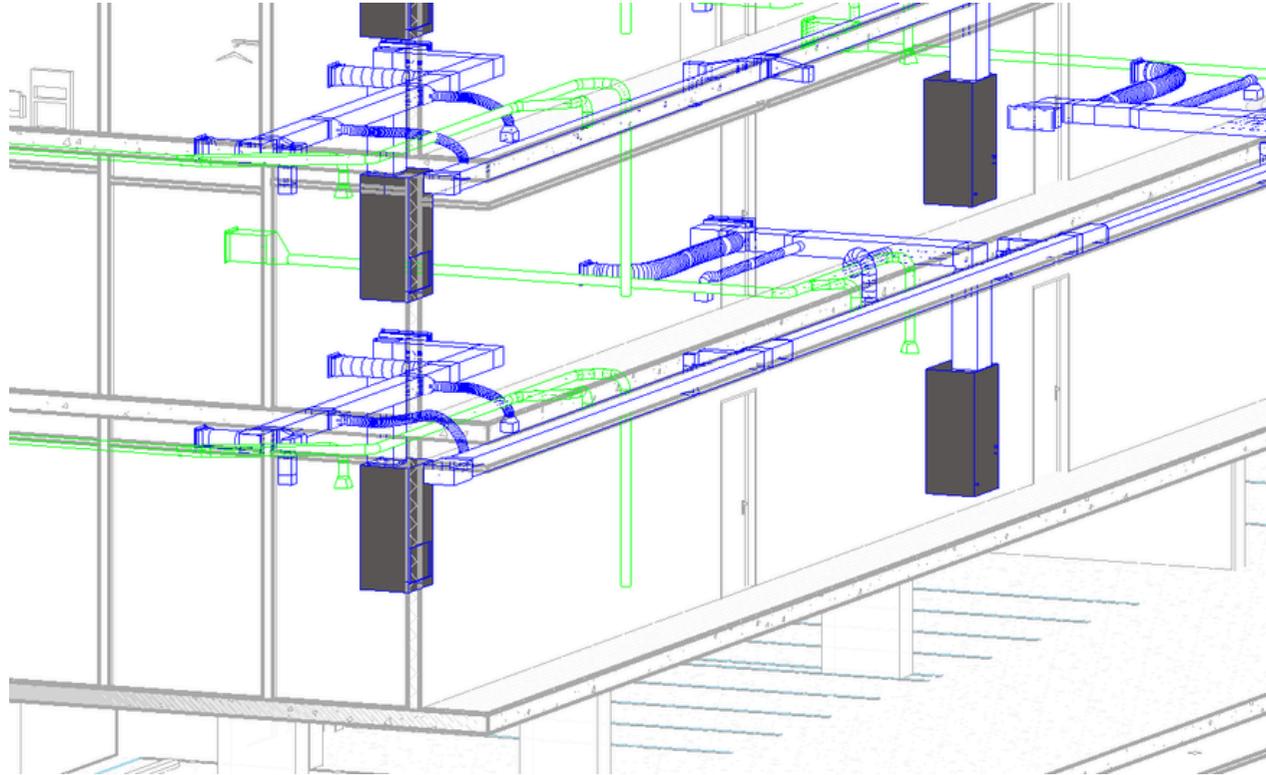
The urinal in the men's restroom in the social area on the 4th floor clashed with a column.



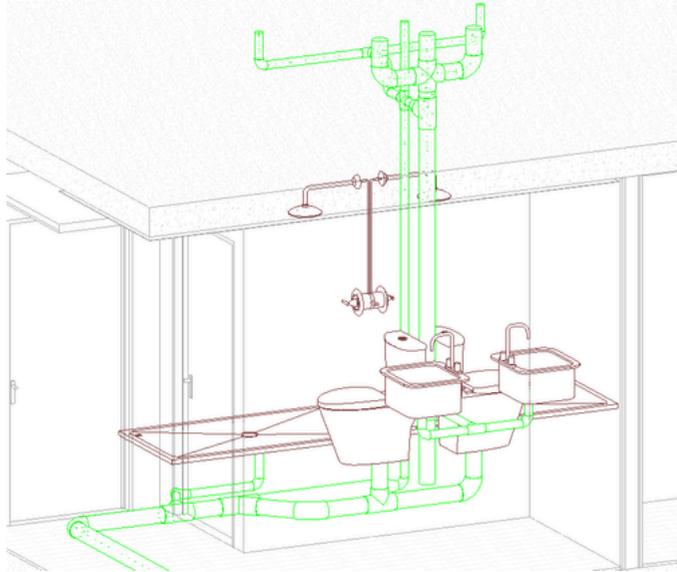
MODELADO BIM - ELÉCTRICO



MODELADO BIM - HVAC



MODELADO BIM - PLOMERÍA



EJEMPLO DE ESTIMACIÓN BIM ACERO DE REFUERZO

DESPIECE ACERO ZONAS
COMUNES - COLUMNAS



DESPIECE ACERO ZONAS
COMUNES - COLUMNAS



Lista de barras 7/8"

| | DIAGRAMA | CANTIDAD | DIAM. | LONG. (m) | PESO | UBICACION |
|---|----------|----------|-------|-----------|--------|-----------|
| 1 | | 26 | 7/8" | 6.95 | 549.89 | |
| 2 | | 6 | 7/8" | 5.40 | 98.56 | |
| 3 | | 6 | 7/8" | 3.65 | 66.82 | |

Peso total barras 7/8" = 714.87 kg

Lista de barras 3/4"

| | | | | | | |
|---|--|----|------|------|--------|--|
| 4 | | 80 | 3/4" | 5.15 | 460.61 | |
|---|--|----|------|------|--------|--|

Peso total barras 3/4" = 460.41 kg

Lista de barras 5/8"

| | | | | | | |
|----|--|----|------|------|--------|--|
| 5 | | 3 | 5/8" | 6.65 | 30.96 | |
| 6 | | 7 | 5/8" | 5.20 | 57.58 | |
| 7 | | 16 | 5/8" | 5.25 | 130.37 | |
| 8 | | 68 | 5/8" | 5.10 | 538.23 | |
| 9 | | 23 | 5/8" | 3.65 | 130.29 | |
| 10 | | 26 | 5/8" | 2.60 | 104.92 | |

Peso total barras 5/8" = 992.35 kg

Lista de barras 1/2"

| | | | | | | |
|----|--|----|------|------|--------|--|
| 11 | | 48 | 1/2" | 6.60 | 314.90 | |
| 12 | | 8 | 1/2" | 5.25 | 41.75 | |
| 13 | | 20 | 1/2" | 5.20 | 103.38 | |
| 14 | | 74 | 1/2" | 5.05 | 371.66 | |
| 15 | | 8 | 1/2" | 3.65 | 29.02 | |
| 16 | | 3 | 1/2" | 2.25 | 6.71 | |
| 17 | | 28 | 1/2" | 2.20 | 61.23 | |

Peso total barras 1/2" = 928.45 kg

Lista de barras 3/8"

| | DIAGRAMA | CANTIDAD | DIAM. | LONG. (m) | PESO | UBICACION |
|----|----------|----------|-------|-----------|--------|-----------|
| 18 | | 62 | 3/8" | 1.20 | 41.66 | |
| 19 | | 673 | 3/8" | 1.00 | 376.66 | |
| 20 | | 62 | 3/8" | 0.46 | 15.97 | |
| 21 | | 1470 | 3/8" | 0.36 | 296.35 | |

Peso total barras 3/8" = 730.87 kg

Lista de barras 1/2"

| | | | | | | |
|----|--|-----|------|------|--------|--|
| 22 | | 819 | 1/2" | 0.89 | 725.99 | |
|----|--|-----|------|------|--------|--|

Peso total barras 1/2" = 725.99 kg

PESO TOTAL = 4552.94 kg



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EJEMPLO DE ESTIMACIÓN SERVICIOS PÚBLICOS

| 5" Stainless Steel Direct Buried | | |
|----------------------------------|------------|-------------|
| Type | WIDTH (ft) | Height (ft) |
| 5" Stainless Steel Direct Buried | 0.00 | 0.00 |

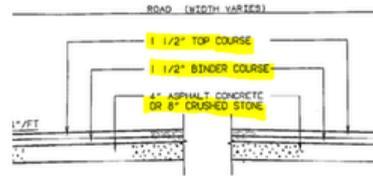
| Trench Info | | |
|---------------------|--|-----------------|
| Width Trench (ft) | Stainless Steel Conduits Diameter (in) | # Conduits (ea) |
| 4.0 | 4 | 1 |
| 6" Gravel base (ft) | 0.50 | |

ON DIRT

| INITIAL STATION | FINAL STATION | LENGTH DUCT BANK (LF) | B/F depth (ft) --on top of pipe DB | DEPTH OF EXCAVATION (VF) | Spoils (CY) | EXC. VOL (CY) | #57 bedding Stone Vol (CY) | VOL OF BACKFILL (CY) | Length of 8" Stainless Steel Conduit (LF) | Saw Cutting (LF) |
|-----------------|---------------|-----------------------|------------------------------------|--------------------------|-------------|---------------|----------------------------|----------------------|---|------------------|
| Edge "A" | Pothead A | 51.00 | 9.00 | 9.50 | 3.78 | 71.78 | 3.78 | 68.00 | 51.00 | 102.00 |
| Edge "A" | Pothead B | 63.00 | 10.00 | 10.50 | 4.67 | 98.00 | 4.67 | 93.33 | 63.00 | 126.00 |
| Edge "A" | Pothead C | 73.00 | 10.00 | 10.50 | 5.41 | 113.56 | 5.41 | 108.15 | 73.00 | 146.00 |
| | | 187 | | | 14 | 283 | 14 | 269 | 187 | 374 |
| | | | | | | | 23 | | | |
| | | | | | | | TON | | | |

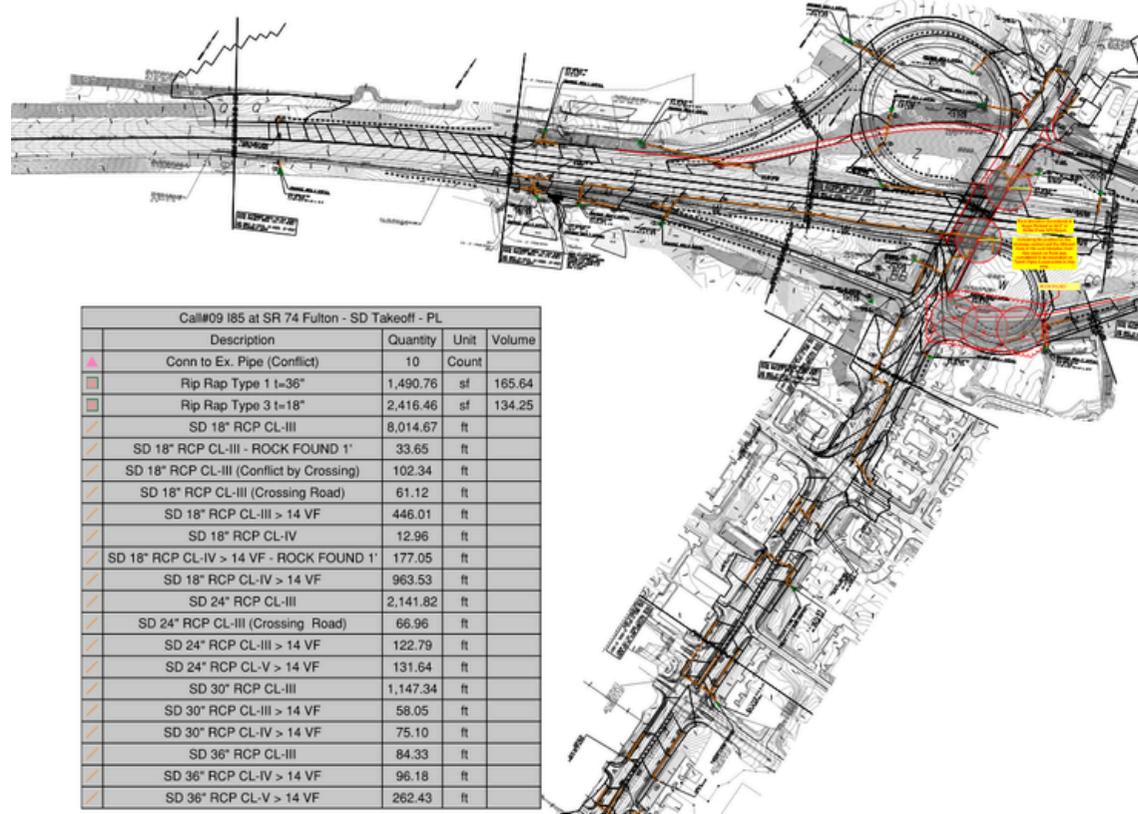
| ELEMENTS | | | | |
|--|--------------------------|------------|-----------------------|-----------------------------|
| Accessories | Individual Quantity (ea) | # conduits | TOTAL quantities (EA) | Detail / Profile / Planview |
| 5" Feeder Stainless Steel 90° Long Sweep Bend | 3 | 1 | 3 | UK |
| 5" Feeder Stainless Steel 22.5° Long Sweep Bend | 3 | 1 | 3 | UK |
| 5" Feeder Stainless Steel 11.25° Long Sweep Bend | 1 | 1 | 1 | UK |

| Description | New Road | |
|------------------|------------|-----|
| | CY | TON |
| Stone #57 | 14 | 23 |
| Trench BF | 244.0 | 488 |
| 8" Crushed Stone | 19.0 | 38 |
| 3" Asphalt | 7.0 | 15 |
| Spoils | 284 | |

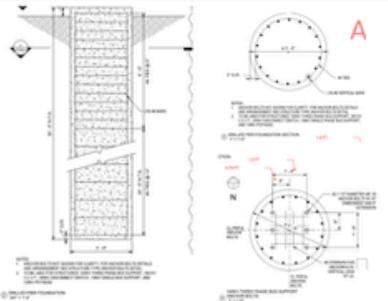
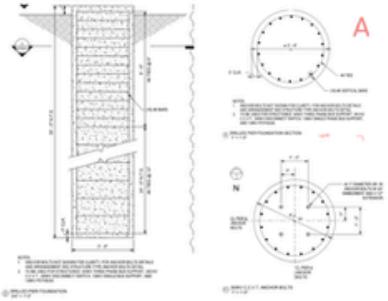


1" CONTINUOUS CRESOSOTED WOOD EDGING STRIP
 RE IN PLACE WITH CRESOSOTED 2" x 4" STAKES
 1" LG 4'-0" O.C. (TYP) WHEN CALLED FOR ON
 ON DRAWING

EJEMPLO DE ESTIMACIÓN SERVICIOS PÚBLICOS



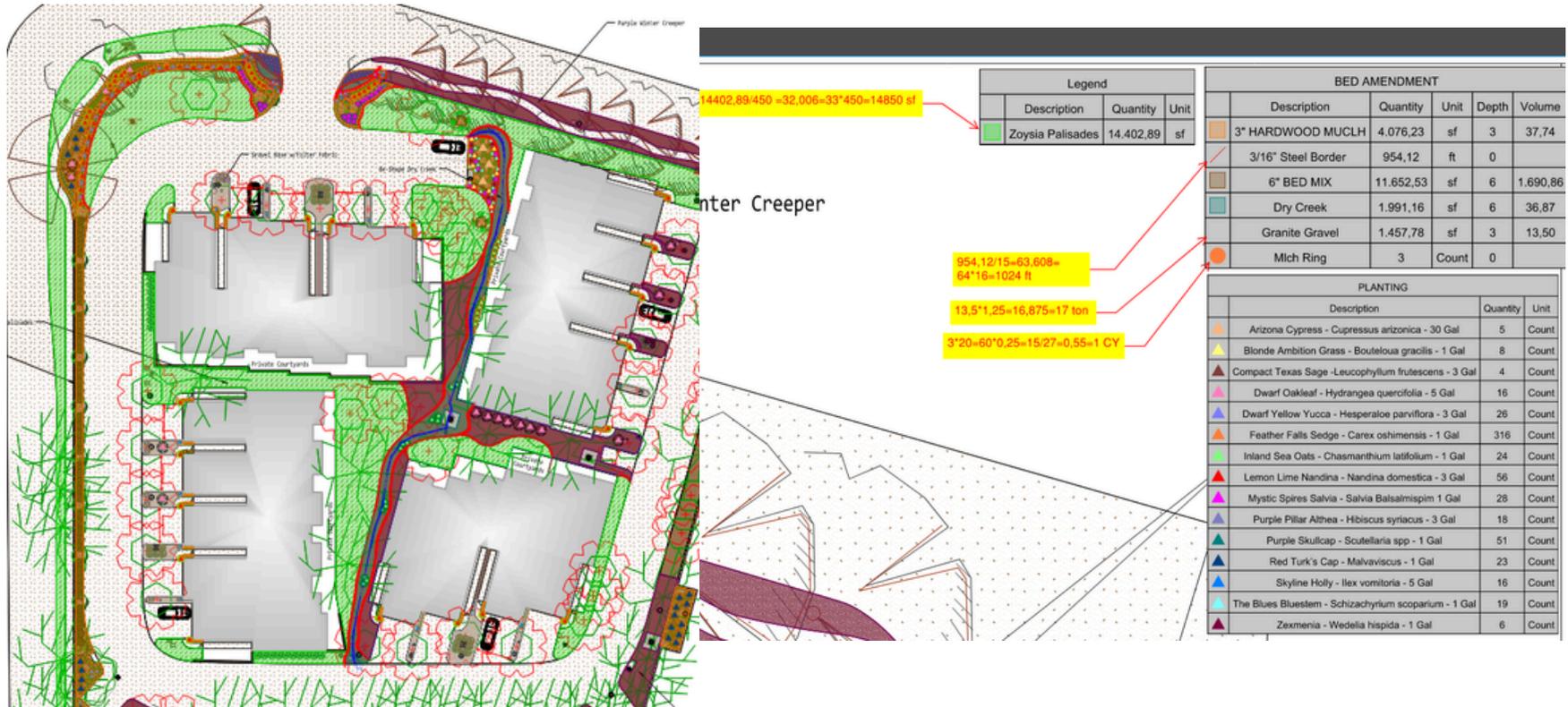
EJEMPLO DE ESTIMACIÓN CONCRETO

| PILES CONCRETE | | | | | | | |
|----------------|------------------------------|----------|---------------|------------|-------------|--------------|---|
| PILES SCHEDULE | | | | | | | |
| ITEM | DESCRIPTION | QTY (EA) | DIAMETER (FT) | AREA (SFT) | LENGTH (FT) | VOLUME (CYD) | DETAIL |
| 1 | 345Kv Bus Support (P1 To P3) | 3 | 3.5 | 9.63 | 30 | 32 |  |
| 2 | 345Kv C.C.V.T. (P4 To P6) | 3 | 3.5 | 9.63 | 30 | 32 |  |

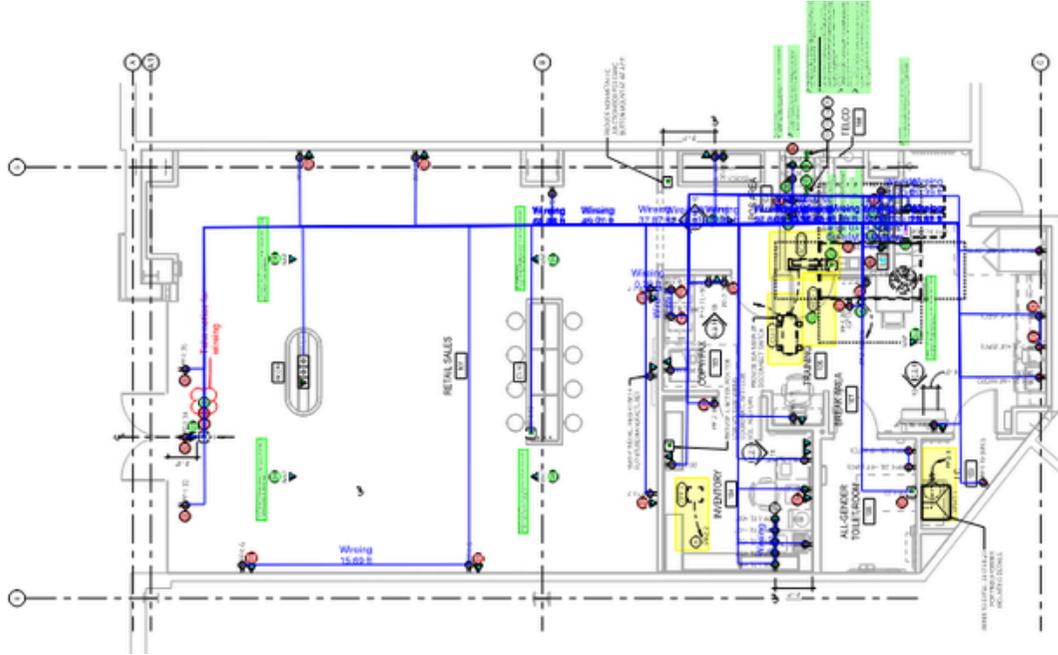
EJEMPLO DE ESTIMACIÓN ACERO DE REFUERZO

| PILES REBAR | | | | | | | | | | |
|--|-----|--------|------|-------------|-----------|--------------------|-------------------|----------------|-------------------|--------------------|
| Vertical Bars | | | | | | | | | | |
| ELEMENT | QTY | # BARS | SIZE | LENGTH (FT) | HOOK (FT) | SPLICE LENGTH (FT) | TOTAL LENGTH (FT) | WEIGHT (LB/FT) | TOTAL WEIGHT (LB) | TOTAL WEIGHT (TON) |
| 345Kv Bus Support (P1 To P3) | 3 | 18 | #8 | 29.83 | 1.33 | 9.16 | 2177.28 | 2.67 | 5813.34 | 2.91 |
| 345Kv C.C.V.T. (P4 To P6) | 3 | 18 | #8 | 29.83 | 1.33 | 9.16 | 2177.28 | 2.67 | 5813.34 | 2.91 |
| 345Kv Disconnect Switch (P7 To P10) | 4 | 18 | #8 | 29.83 | 1.33 | 9.16 | 2903.04 | 2.67 | 7751.12 | 3.88 |
| Tower Foundations (P11 To P14) | 4 | 40 | #11 | 39.83 | 1.33 | 13.76 | 8787.20 | 2.67 | 23461.82 | 11.73 |
| 138Kv Bus Support (P15 To P17) | 3 | 18 | #8 | 29.83 | 1.33 | 9.16 | 2177.28 | 2.67 | 5813.34 | 2.91 |
| Lightning Mast (P18 To P19) | 2 | 16 | #8 | 38.83 | 2.66 | 9.16 | 1620.80 | 2.67 | 4327.54 | 2.16 |
| 138Kv Pothead (P20 To P21) | 2 | 18 | #8 | 29.83 | 1.33 | 9.16 | 1451.52 | 2.67 | 3875.56 | 1.94 |
| 138Kv Transformer And Par Moat Mat (P22 To P131) | 110 | 6 | #6 | 32.58 | 1 | 9.16 | 28208.40 | 2.67 | 75316.43 | 37.66 |
| Breaker And Disconnect Switch Pad (P132 To P155) | 24 | 6 | #6 | 32.58 | 1 | 9.16 | 6154.56 | 2.67 | 16432.68 | 8.22 |
| Deluge House Enclosure (P156 To P159) | 4 | 6 | #6 | 32.58 | 1 | 9.16 | 1025.76 | 2.67 | 2738.78 | 1.37 |
| TOTAL (TON) | | | | | | | | | | 75.67 |

EJEMPLO DE ESTIMACIÓN PAISAJISMO



EJEMPLO DE ESTIMACIÓN ELÉCTRICA



| Quantities Schedule | | | |
|---------------------|---------------------------------------|----------|-------|
| | Description | Quantity | Unit |
| ▲ | DATA OUTLET - DATA FEED | 23 | Count |
| ▲ | DUPLEX RECEPTACLE | 27 | Count |
| ▲ | FLOOR-BOX DOUBLE WHIP WITH DATA PORTS | 1 | Count |
| ● | FLOOR-BOX SINGLE WHIP | 7 | Count |
| ▲ | GFCI DUPLEX RECEPTACLE | 8 | Count |
| ■ | JUNCTION BOX | 8 | Count |
| ■ | LIGHTING CONTACTOR | 1 | Count |
| ■ | PANEL | 2 | Count |
| ▲ | QUAD RECEPTACLE | 11 | Count |
| ■ | SMART METER | 1 | Count |
| — | Wiring | 1,137,42 | ft |

EJEMPLO DE ESTIMACIÓN ELÉCTRICO

C01 | Electrical System Installation: Electrical Fixtures, Wiring, Conduits and Related

| Part Code | Supplier Code | Category | Qty | Type | Description | Material | Lab. Hours | Labor | Sub. Cont | Total |
|-----------|---------------|-----------------------|-------|-----------|---------------------------|------------|------------|------------|-----------|------------|
| | | 1 PROJECT PREPARATION | 3000. | Dollars | Misc. General Items | \$3 000.00 | 0. | \$0.00 | \$0.00 | \$3 000.00 |
| | | 25 ELECTRICAL | 8. | Pieces | Junction Box | \$400.00 | 100. | \$4 000.00 | \$0.00 | \$4 400.00 |
| | | 25 ELECTRICAL | 7. | Pieces | Floor-Box Single Whip | \$318.92 | 112.5 | \$4 500.00 | \$0.00 | \$4 818.92 |
| | | 25 ELECTRICAL | 1138. | Lin. Feet | WIRE#12n THHN WHITE | \$1 500.00 | 50. | \$2 000.00 | \$0.00 | \$3 500.00 |
| | | 25 ELECTRICAL | 1139. | Lin. Feet | Wire #12 THHN Green (GND) | \$1 500.00 | 50. | \$2 000.00 | \$0.00 | \$3 500.00 |
| | | 25 ELECTRICAL | 1137. | Lin. Feet | WIRE#12 THHN BLACK | \$1 500.00 | 50. | \$2 000.00 | \$0.00 | \$3 500.00 |
| | | 25 ELECTRICAL | 1140. | Lin. Feet | 3/4" EMT Pipe | \$2 500.00 | 150. | \$6 000.00 | \$0.00 | \$8 500.00 |
| | | 25 ELECTRICAL | 27. | Pieces | Electrical Outlet - | \$2 500.00 | 0. | \$6 000.00 | \$0.00 | \$8 500.00 |
| | | 25 ELECTRICAL | 8. | Pieces | Electrical Outlet - GFI | \$1 200.00 | 0. | \$2 500.00 | \$0.00 | \$3 700.00 |
| | | 25 ELECTRICAL | 11. | Pieces | Electrical Outlet - | \$1 800.00 | 0. | \$3 000.00 | \$0.00 | \$4 800.00 |
| | | 25 ELECTRICAL | 1. | Lin. Feet | WIRE #6 THHN GREEN (GND) | \$100.00 | 2.5 | \$100.00 | \$0.00 | \$200.00 |
| | | 25 ELECTRICAL | 15. | Lin. Feet | 4" EMT Conduit | \$500.00 | 2.5 | \$100.00 | \$0.00 | \$600.00 |
| | | 25 ELECTRICAL | 1. | Lin. Feet | 2-1/2" EMT Conduit | \$10.70 | 8. | \$320.00 | \$0.00 | \$330.70 |
| | | 25 ELECTRICAL | 1. | Pieces | Floor-Box Double Whip | \$100.00 | 10. | \$400.00 | \$0.00 | \$500.00 |
| | | 25 ELECTRICAL | 11. | Lin. Feet | 1-1/4" EMT Conduit | \$500.00 | 25. | \$1 000.00 | \$0.00 | \$1 500.00 |
| | | 25 ELECTRICAL | 23. | Pieces | Data Outlet - Data Feed | \$1 500.00 | 70. | \$2 800.00 | \$0.00 | \$4 300.00 |
| | | 25 ELECTRICAL | 32. | Lin. Feet | 3-1/2" Conduit | \$100.00 | 10. | \$400.00 | \$0.00 | \$500.00 |



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