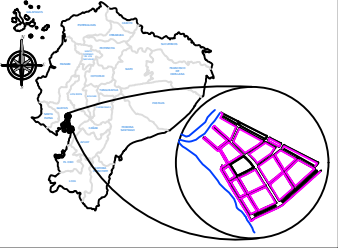


UBICACIÓN



PROYECTO:
CONSTRUCCIÓN DEL MALECÓN EN LA
PARROQUIA URBANA SATÉLITE LA
AURORA

ELABORADO POR:

ARQ. FERNANDO SAN LUCAS MACIAS
DIRECTOR GENERAL DE DESARROLLO
Y ORDENAMIENTO TERRITORIAL

REVISADO POR:

ING. JAVIER PRIETO LAINA
SUBDIRECTOR DE CONSTRUCCION Y
MANTENIMIENTO

APROBADO POR:

ING. ÁNGEL TAIPE VELIZ
DIRECTOR GENERAL DE OBRAS
PÚBLICAS

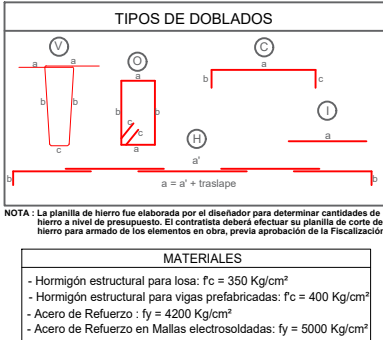
CONTIENE:

DETALLE DE VIGAS DE ESCALERA Y LOSA e120mm,
CANTIDAD DE HORMIGON Y ACERO DE REFUERZO

ESCALA: indicada

CÓDIGO: **E-F1-M9**

FECHA: MAYO 2025 LÁMINA: 13-12-12



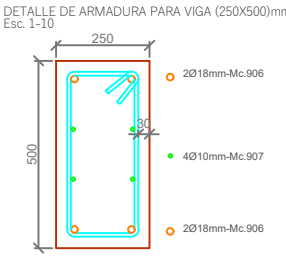
NOTAS GENERALES

- Todas las medidas están en milímetros (mm).
- Las cotas en metros (m).
- Las medidas prevalecen sobre la escala del dibujo
- Las longitudes, medidas y cotas deberan ser verificadas por el constructor

| FASE 1 MODULO 9 | | | | | |
|--|------------|---------------------|--------------|----------|---------------------------|
| PLANILLA DE HORMIGON LOSA ESCALERA ($f_c = 350 \text{ kg/cm}^2$) | | | | | |
| largo (mm) | ancho (mm) | Codigo | Espesor (mm) | Cantidad | Volumen (m ³) |
| 1480 | 650 | LOSA-ESCALERA-M9-01 | 120 | 1.000 | 0.115 |
| 4020 | 1400 | LOSA-ESCALERA-M9-02 | 120 | 1.000 | 0.675 |
| 6100 | 1400 | LOSA-ESCALERA-M9-03 | 120 | 3.000 | 3.074 |
| 5750 | 1400 | LOSA-ESCALERA-M9-04 | 120 | 3.000 | 2.898 |
| 5020 | 1400 | LOSA-ESCALERA-M9-05 | 120 | 1.000 | 0.843 |
| 4075 | 1400 | LOSA-ESCALERA-M9-06 | 120 | 1.000 | 0.685 |
| 2800 | 800 | LOSA-ESCALERA-M9-07 | 120 | 1.000 | 0.269 |
| 4640 | 1750 | LOSA-ESCALERA-M9-08 | 120 | 1.000 | 0.974 |
| 5800 | 1750 | LOSA-ESCALERA-M9-09 | 120 | 1.000 | 1.218 |
| 5700 | 1450 | LOSA-ESCALERA-M9-10 | 120 | 1.000 | 0.992 |
| 4080 | 650 | LOSA-ESCALERA-M9-11 | 120 | 1.000 | 0.318 |
| 5500 | 1000 | LOSA-ESCALERA-M9-12 | 120 | 1.000 | 0.680 |
| 6530 | 1000 | LOSA-ESCALERA-M9-13 | 120 | 1.000 | 0.784 |
| 6500 | 1000 | LOSA-ESCALERA-M9-14 | 120 | 1.000 | 0.780 |
| TOTAL= | | | | 14.286 | |

| FASE 1 MODULO 9 | | | | | |
|--|--|--|--|--|--|
| PLANILLA DE HIERRO DE VIGAS ($f_y = 4200 \text{ Kg/cm}^2$) | | | | | |
| Losa Escalera M9 | | | | | |
| Losa Escalera M9-01 | | | | | |
| Losa Escalera M9-02 | | | | | |
| Losa Escalera M9-03 | | | | | |
| Losa Escalera M9-04 | | | | | |
| Losa Escalera M9-05 | | | | | |
| Losa Escalera M9-06 | | | | | |
| Losa Escalera M9-07 | | | | | |
| Losa Escalera M9-08 | | | | | |
| Losa Escalera M9-09 | | | | | |
| Losa Escalera M9-10 | | | | | |
| Losa Escalera M9-11 | | | | | |
| Losa Escalera M9-12 | | | | | |
| Losa Escalera M9-13 | | | | | |
| Losa Escalera M9-14 | | | | | |

| FASE 1 MODULO 9 | | | | | |
|--|--|--|--|--|--|
| PLANILLA DE HIERRO DE VIGAS ($f_y = 4200 \text{ Kg/cm}^2$) | | | | | |
| Losa Escalera M9 | | | | | |
| Losa Escalera M9-01 | | | | | |
| Losa Escalera M9-02 | | | | | |
| Losa Escalera M9-03 | | | | | |
| Losa Escalera M9-04 | | | | | |
| Losa Escalera M9-05 | | | | | |
| Losa Escalera M9-06 | | | | | |
| Losa Escalera M9-07 | | | | | |
| Losa Escalera M9-08 | | | | | |
| Losa Escalera M9-09 | | | | | |
| Losa Escalera M9-10 | | | | | |
| Losa Escalera M9-11 | | | | | |
| Losa Escalera M9-12 | | | | | |
| Losa Escalera M9-13 | | | | | |
| Losa Escalera M9-14 | | | | | |



| FASE 1 MODULO 9 | | | | | |
|--|------------|---------------------|---------------|----------|---------------------------|
| PLANILLA DE HORMIGON DE VIGA BORDE 200x1000 mm ($f_c = 350 \text{ kg/cm}^2$) | | | | | |
| altura (mm) | ancho (mm) | Codigo | Longitud (mm) | Cantidad | Volumen (m ³) |
| 1000 | 200 | VIGA 200X1000-M9-01 | 4600 | 4.000 | 3.680 |
| 1000 | 200 | VIGA 200X1000-M9-02 | 2300 | 1.000 | 0.460 |
| 1000 | 200 | VIGA 200X1000-M9-03 | 5300 | 1.000 | 1.060 |
| TOTAL= | | | | 5.200 | |

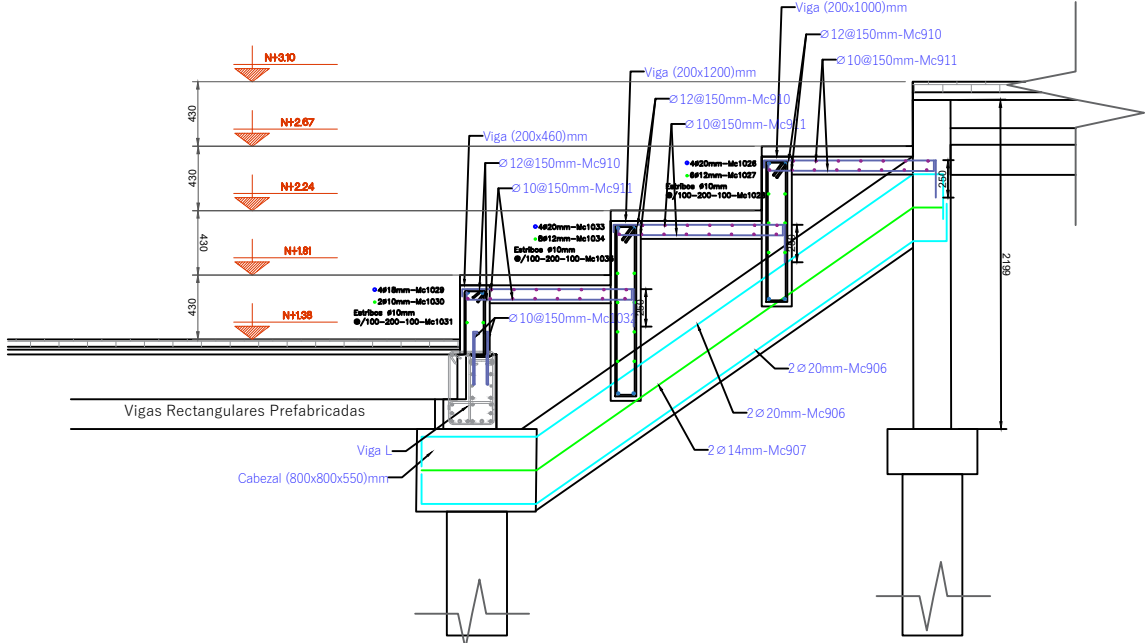
| FASE 1 MODULO 9 | | | | | |
|--|--|--|--|--|--|
| PLANILLA DE HIERRO DE VIGAS ($f_y = 4200 \text{ Kg/cm}^2$) | | | | | |
| VIGA 200X1000mm | | | | | |
| VIGA 200X1000mm-01 | | | | | |
| VIGA 200X1000mm-02 | | | | | |
| VIGA 200X1000mm-03 | | | | | |
| VIGA 200X1000mm-04 | | | | | |
| VIGA 200X1000mm-05 | | | | | |
| VIGA 200X1000mm-06 | | | | | |
| VIGA 200X1000mm-07 | | | | | |
| VIGA 200X1000mm-08 | | | | | |
| VIGA 200X1000mm-09 | | | | | |
| VIGA 200X1000mm-10 | | | | | |
| VIGA 200X1000mm-11 | | | | | |
| VIGA 200X1000mm-12 | | | | | |
| VIGA 200X1000mm-13 | | | | | |
| VIGA 200X1000mm-14 | | | | | |

| FASE 1 MODULO 9 | | | | | |
|--|--|--|--|--|--|
| PLANILLA DE HIERRO DE VIGAS ($f_y = 4200 \text{ Kg/cm}^2$) | | | | | |
| VIGA 200X460 | | | | | |
| VIGA 200X460-01 | | | | | |
| VIGA 200X460-02 | | | | | |
| VIGA 200X460-03 | | | | | |
| VIGA 200X460-04 | | | | | |
| VIGA 200X460-05 | | | | | |
| VIGA 200X460-06 | | | | | |
| VIGA 200X460-07 | | | | | |
| VIGA 200X460-08 | | | | | |
| VIGA 200X460-09 | | | | | |
| VIGA 200X460-10 | | | | | |
| VIGA 200X460-11 | | | | | |
| VIGA 200X460-12 | | | | | |
| VIGA 200X460-13 | | | | | |
| VIGA 200X460-14 | | | | | |

| FASE 1 MODULO 9 | | | | | |
|--|--|--|--|--|--|
| PLANILLA DE HIERRO DE VIGAS ($f_y = 4200 \text{ Kg/cm}^2$) | | | | | |
| VIGA 200X460 | | | | | |
| VIGA 200X460-01 | | | | | |
| VIGA 200X460-02 | | | | | |
| VIGA 200X460-03 | | | | | |
| VIGA 200X460-04 | | | | | |
| VIGA 200X460-05 | | | | | |
| VIGA 200X460-06 | | | | | |
| VIGA 200X460-07 | | | | | |
| VIGA 200X460-08 | | | | | |
| VIGA 200X460-09 | | | | | |
| VIGA 200X460-10 | | | | | |
| VIGA 200X460-11 | | | | | |
| VIGA 200X460-12 | | | | | |
| VIGA 200X460-13 | | | | | |
| VIGA 200X460-14 | | | | | |

| FASE 1 MODULO 9 | | | | | |
|--|--|--|--|--|--|
| PLANILLA DE HIERRO DE VIGAS ($f_y = 4200 \text{ Kg/cm}^2$) | | | | | |
| VIGA 200X460 | | | | | |
| VIGA 200X460-01 | | | | | |
| VIGA 200X460-02 | | | | | |
| VIGA 200X460-03 | | | | | |
| VIGA 200X460-04 | | | | | |
| VIGA 200X460-05 | | | | | |
| VIGA 200X460-06 | | | | | |
| VIGA 200X460-07 | | | | | |
| VIGA 200X460-08 | | | | | |
| VIGA 200X460-09 | | | | | |
| VIGA 200X460-10 | | | | | |
| VIGA 200X460-11 | | | | | |
| VIGA 200X460-12 | | | | | |
| VIGA 200X460-13 | | | | | |
| VIGA 200X460-14 | | | | | |

| FASE 1 MODULO 9 | | | | | |
|---|------------|-----------------------------|---------------|----------|---------------------------|
| PLANILLA DE HORMIGON DE VIGA BORDE 200x460 mm ($f_c = 350 \text{ kg/cm}^2$) | | | | | |
| altura (mm) | ancho (mm) | Codigo | Longitud (mm) | Cantidad | Volumen (m ³) |
| 200 | 460 | VIGA DE BORDE 200X460-M9-01 | 6000 | 4.000 | 2.208 |
| 200 | 460 | VIGA DE BORDE 200X460-M9-02 | 5100 | 1.000 | 0.469 |
| 200 | 460 | VIGA DE BORDE 200X460-M9-03 | 7120 | 1.000 | 0.655 |
| TOTAL= | | | | 3.332 | |



DETALLES DE ARMADURA DE ESCALONES
ESC. 1-25

| FASE 1 MODULO 9 | | | | | |
|---|------------|--------------------|---------------|----------|---------------------------|
| PLANILLA DE HORMIGON DE VIGA 250x500 mm ($f_c = 350 \text{ kg/cm}^2$) | | | | | |
| altura (mm) | ancho (mm) | Codigo | Longitud (mm) | Cantidad | Volumen (m ³) |
| 500 | 250 | VIGA 250X500-M9-01 | 3000 | 2.000 | 0.750 |
| 500 | 250 | VIGA 250X500-M9-02 | 3050 | 3.000 | 1.144 |
| TOTAL= | | | | 1.894 | |

| FASE 1 | | | | | | | | | | | | | |
|--|------|------|-------------|---------|--------------------|------|-----------|----------------|---|---------|------------|-------|-------|
| MODULO 9 | | | | | | | | | | | | | |
| VIGA 250X500 mm | | | | Codigo: | VIGA 250X500-M9-01 | | | Longitud prom: | | 2600 mm | Car/vigas: | 2 U | |
| PLANILLA DE HIERRO DE VIGAS (fy=4200 kg/cm²) | | | | | | | | | | | | | |
| Dimensiones (m) | | | | | Longitud (m) | | Peso (kg) | | | | | | |
| Mc | Tipo | Ø mm | Espac. (mm) | Cant. | a | b | c | d | e | Unidad | Total | Total | |
| 906 | C | 18 | | 4 | 0.97 | 3.06 | 0.97 | | | 5.00 | 20.02 | 10.00 | 39.99 |
| 907 | C | 10 | 2 | | | 3.06 | | | | 3.06 | 6.13 | 1.89 | 3.70 |
| 908 | O | 10 | 100-200-100 | 25 | 0.28 | 0.88 | | 0.15 | | 1.31 | 33.17 | 0.91 | 20.46 |
| Total de VIGA 250X500 mm | | | | | | | | | | | 64.32 | | |
| Total de vigas código VIGA 250X500-M9-01 | | | | | | | | | | | 128.43 | | |
| | | | | | | | | | | | | | |
| VIGA 250X500 mm | | | | Codigo: | VIGA 250X500-M9-02 | | | Longitud prom: | | 2700 mm | Car/vigas: | 3 U | |
| PLANILLA DE HIERRO DE VIGAS (fy=4200 kg/cm²) | | | | | | | | | | | | | |
| Dimensiones (m) | | | | | Longitud (m) | | Peso (kg) | | | | | | |
| Mc | Tipo | Ø mm | Espac. (mm) | Cant. | a | b | c | d | e | Unidad | Total | Total | |
| 906 | C | 18 | | 4 | 0.97 | 2.80 | 0.97 | | | 4.74 | 20.94 | 1.72 | 20.94 |
| 907 | C | 10 | 2 | | | 2.80 | | | | 2.80 | 5.59 | 1.70 | 3.45 |
| 908 | O | 10 | 100-200-100 | 24 | 0.28 | 0.88 | | 0.15 | | 1.21 | 31.41 | 0.81 | 19.36 |
| Total de VIGA 250X500 mm | | | | | | | | | | | 61.63 | | |
| Total de vigas código VIGA 250X500-M9-02 | | | | | | | | | | | 181.94 | | |