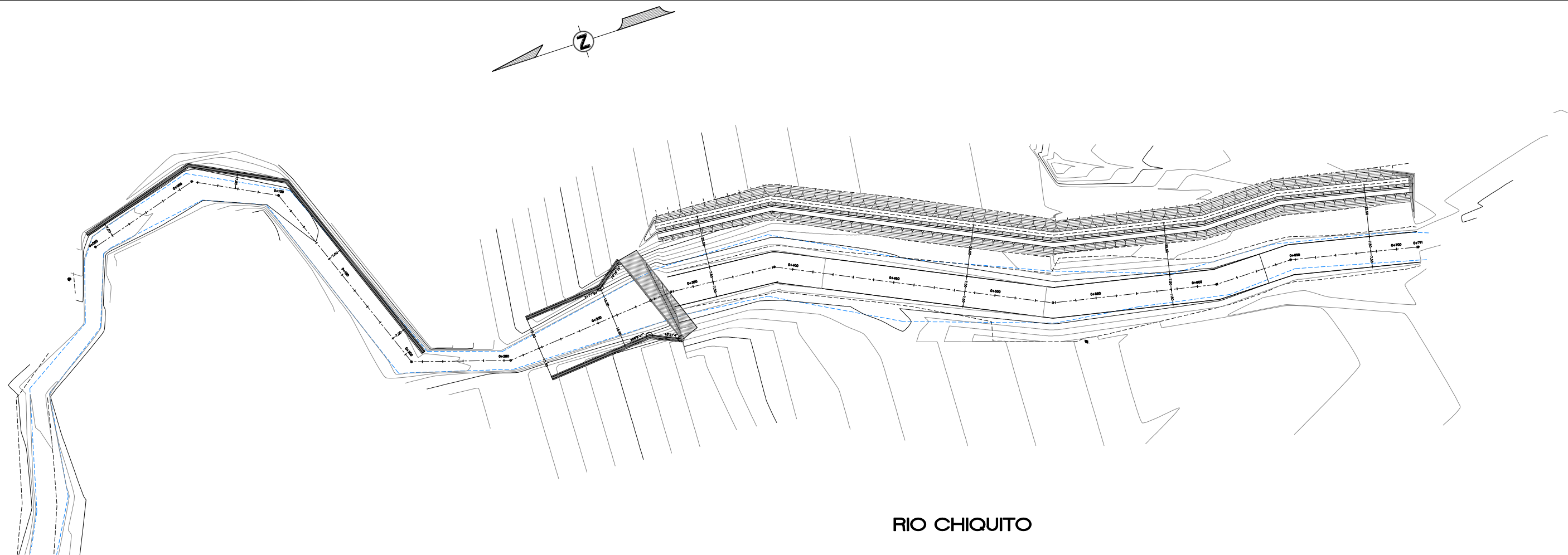
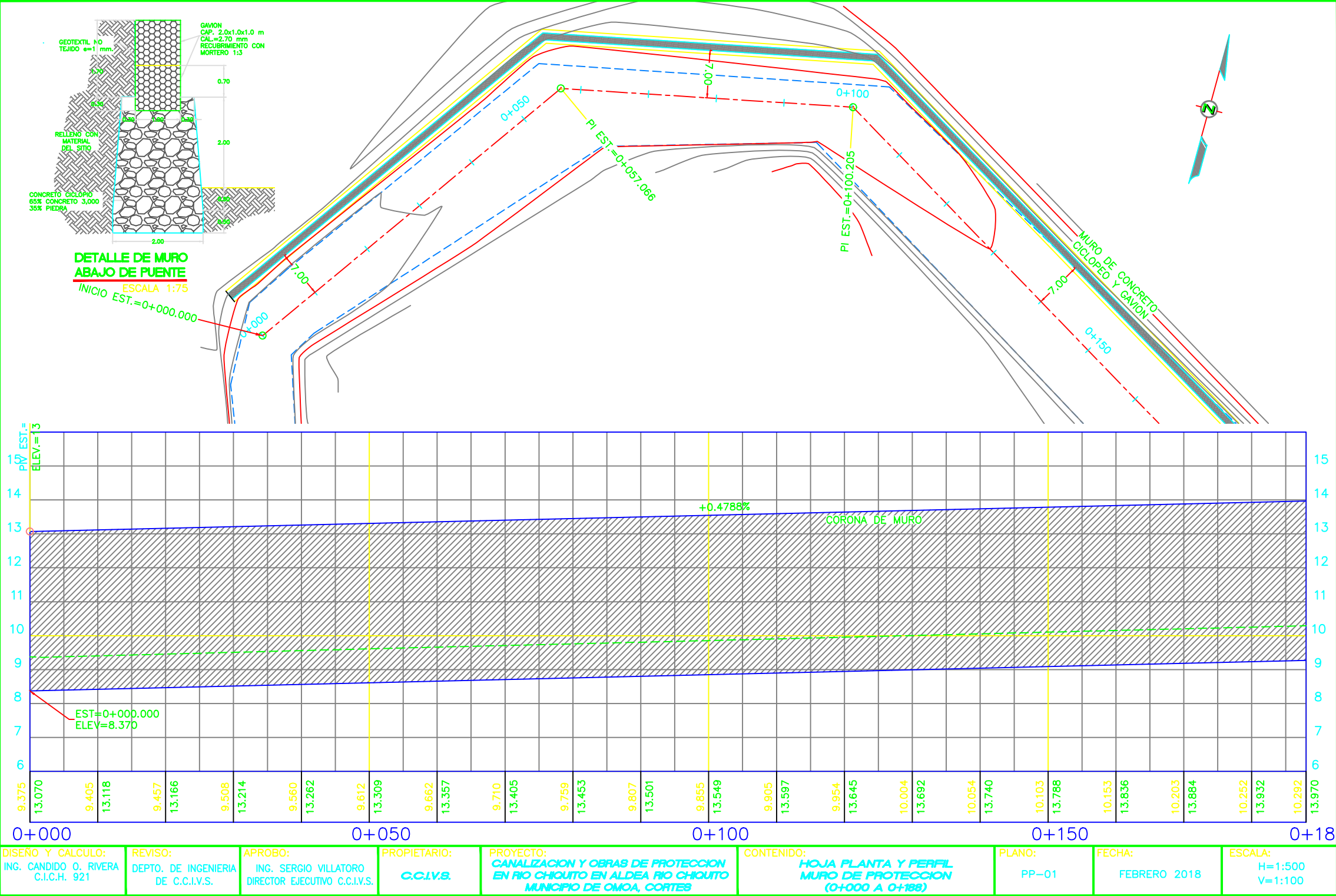


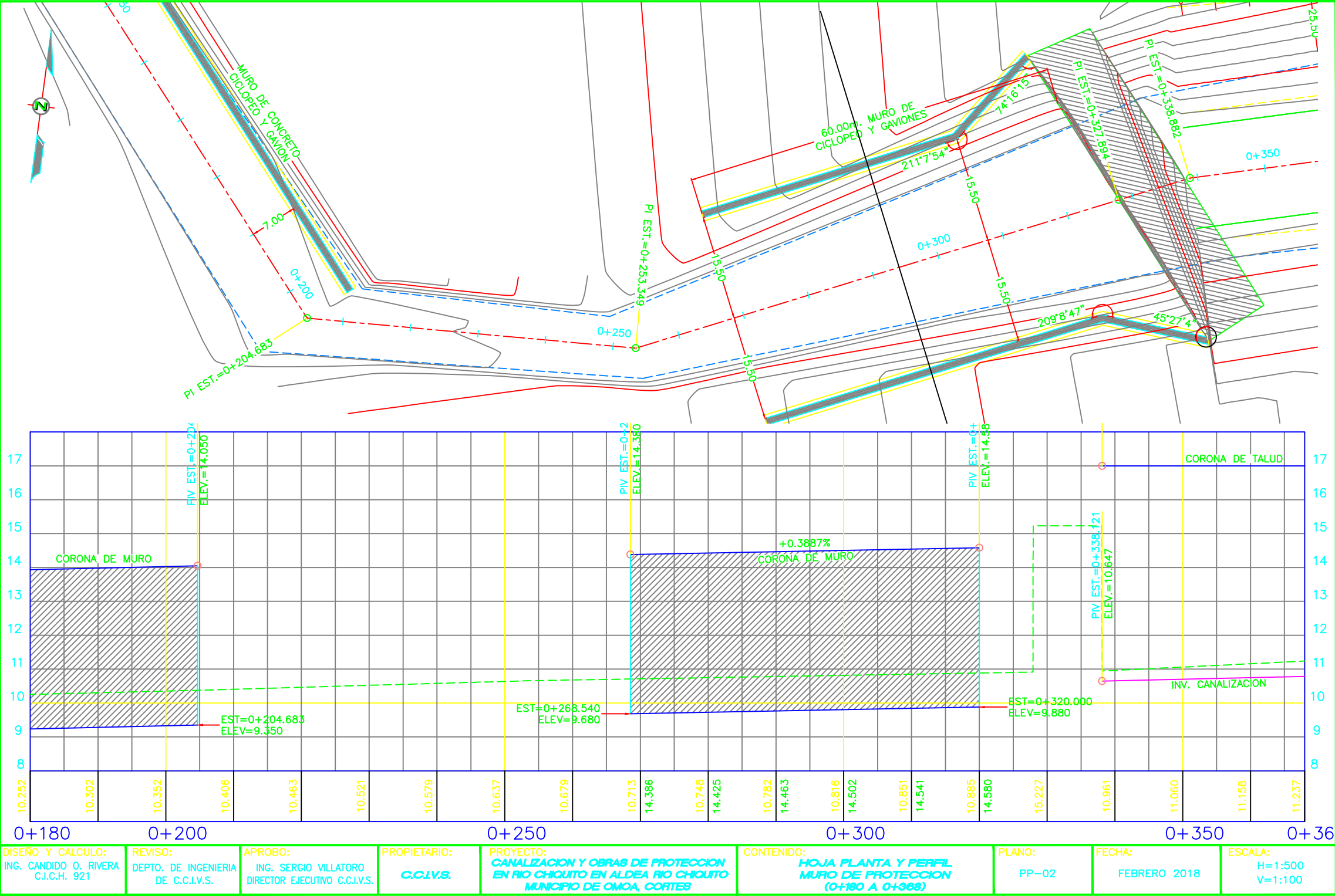


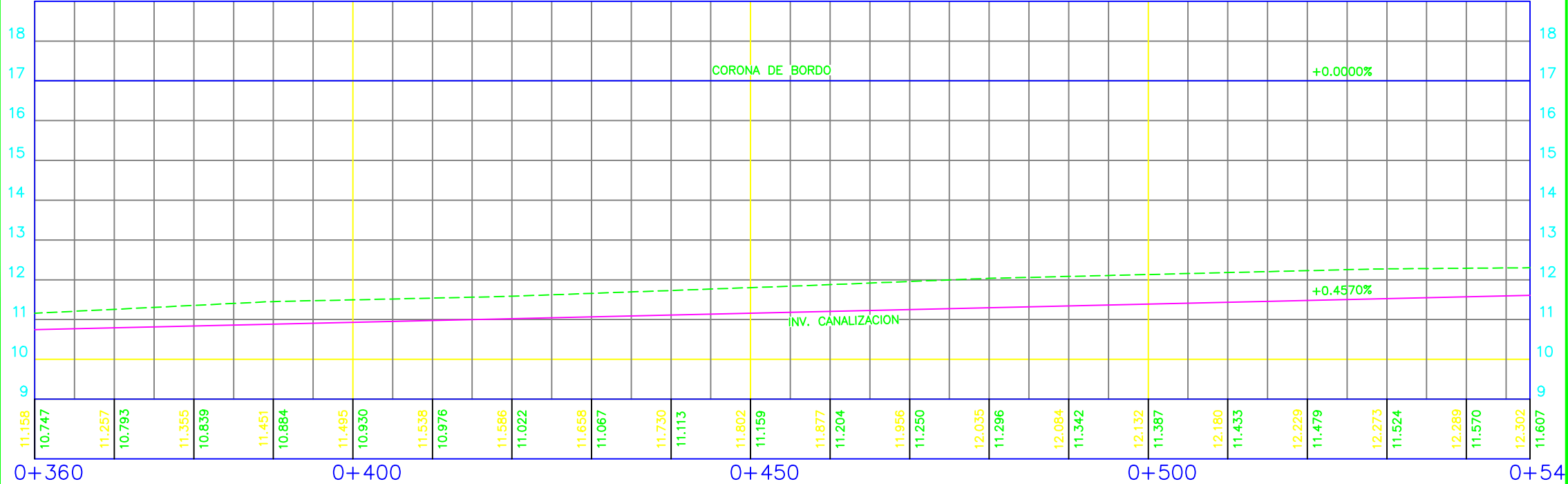
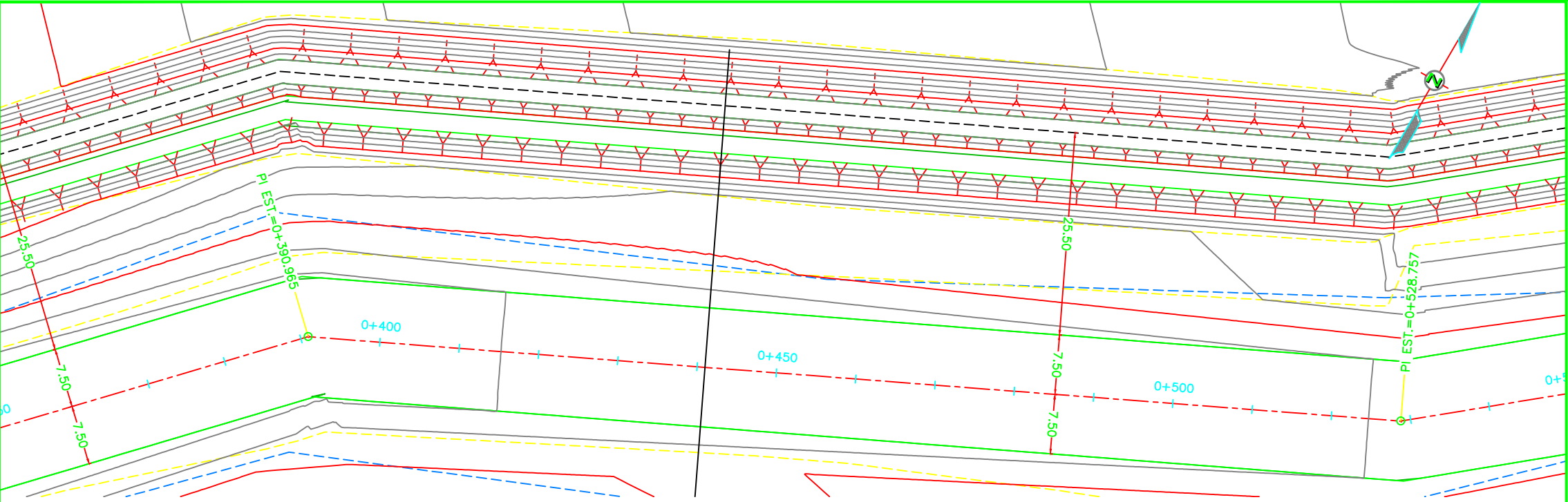
INDICE DE PLANOS

- GN-01 PLANO CARATULA E INDICE
- PP-01 HOJA DE PLANTA Y PERFIL MURO DE PROTECCION EST.0+000.000 A EST.=0+188.000
- PP-02 HOJA DE PLANTA Y PERFIL MURO DE PROTECCION EST.0+180.000 A EST.=0+368.000
- PP-03 HOJA DE PLANTA Y PERFIL BORDO M.D. EST.0+360.000 A EST.=0+548.000
- ST-01 SECCIONES TRANSVERSALES BORDO M.D. EST.0+540.000 A EST.=0+710.647
- ST-02 SECCIONES TRANSVERSALES EST.0+000.000 A EST.=0+220.000
- ST-03 SECCIONES TRANSVERSALES EST.0+240.000 A EST.=0+340.000
- ST-03 SECCIONES TRANSVERSALES EST.0+360.000 A EST.=0+460.000
- ST-03 SECCIONES TRANSVERSALES EST.0+480.000 A EST.=0+580.000
- ST-03 SECCIONES TRANSVERSALES EST.0+600.000 A EST.=0+710.647

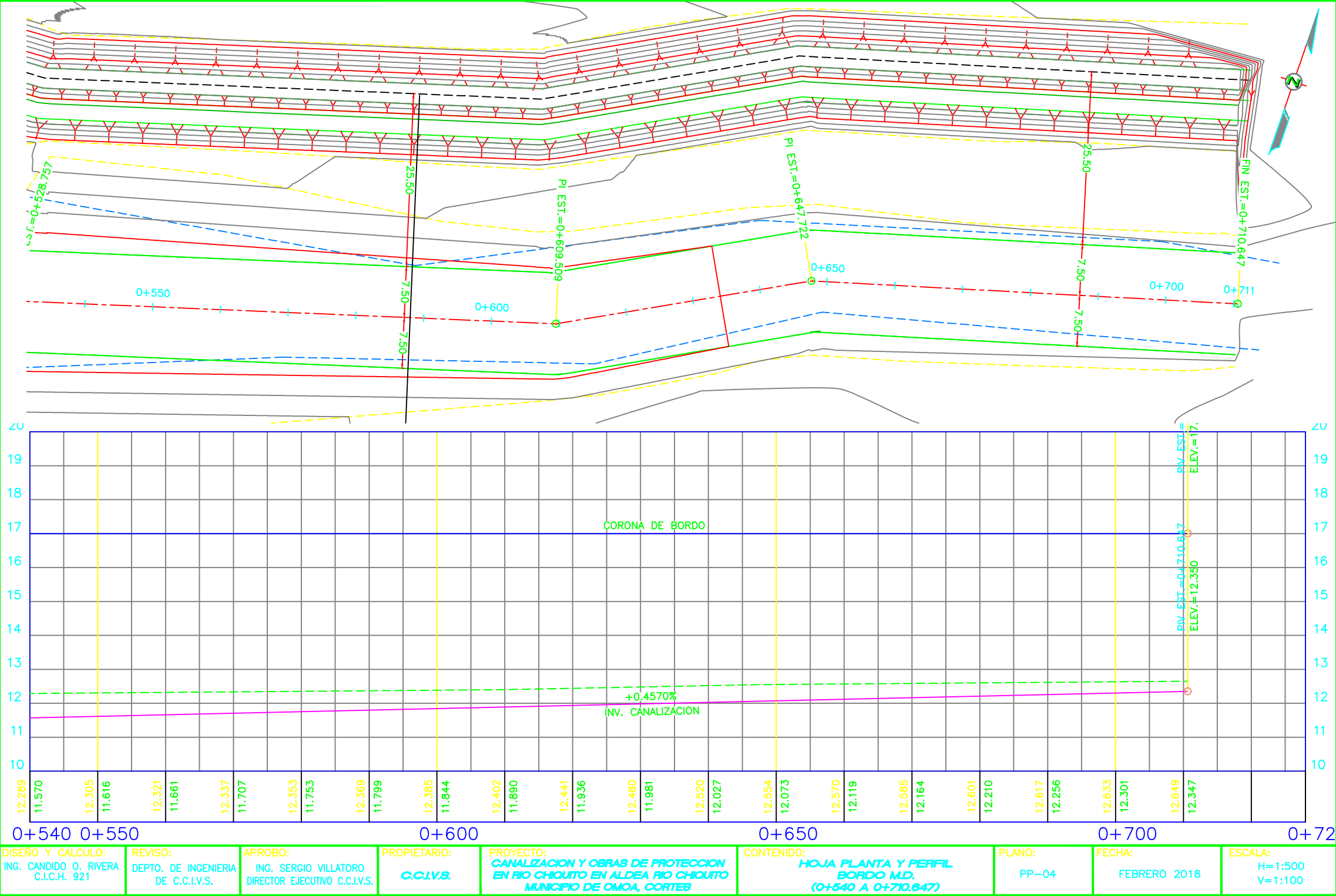
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|-------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------|----------------------------|---------------------------|
| DISEÑO Y CALCULO:<br>ING. CANDIDO O. RIVERA<br>C.I.C.H. 921 | REVISO:<br>DEPTO. DE INGENIERIA<br>DE C.C.I.V.S. | APROBO:<br>ING. SERGIO VILLATORO<br>DIRECTOR EJECUTIVO C.C.I.V.S. | PROPIETARIO:<br><br>C.C.I.V.S. | PROYECTO:<br>CANALIZACION Y OBRAS DE PROTECCION<br>EN RIO CHIQUITO EN ALDEA RIO CHIQUITO<br>MUNICIPIO DE OMOA, CORTES | CONTENIDO:<br><br>PLANO CARATULA E INDICE | PLANO:<br><br>GN-01 | FECHA:<br><br>FEBRERO 2018 | ESCALA:<br><br>SIN ESCALA |
|-------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------|----------------------------|---------------------------|

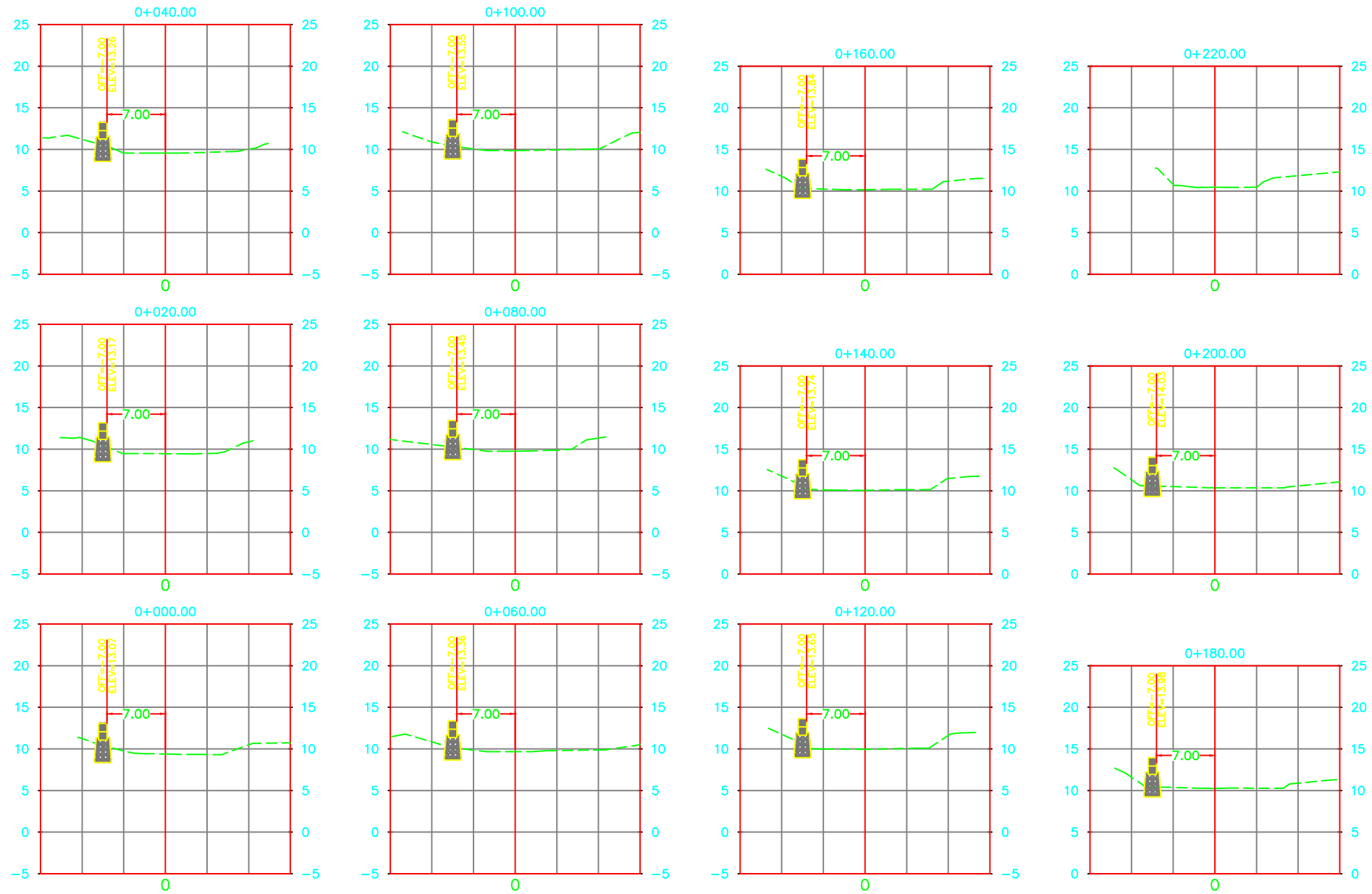




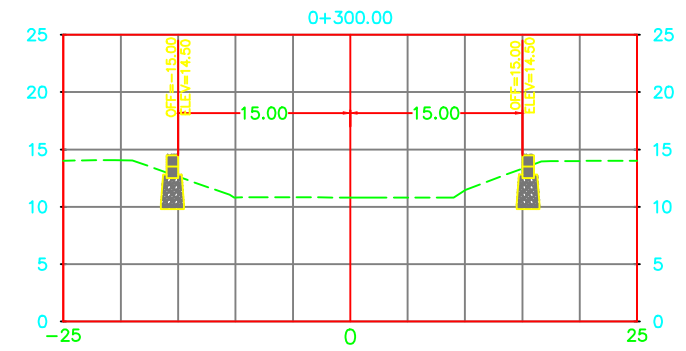
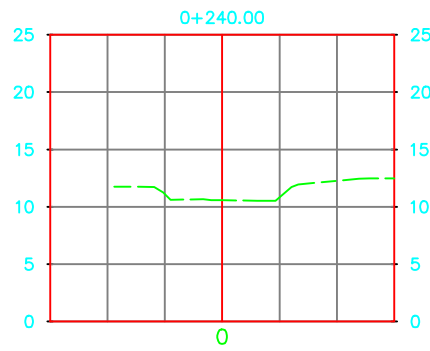
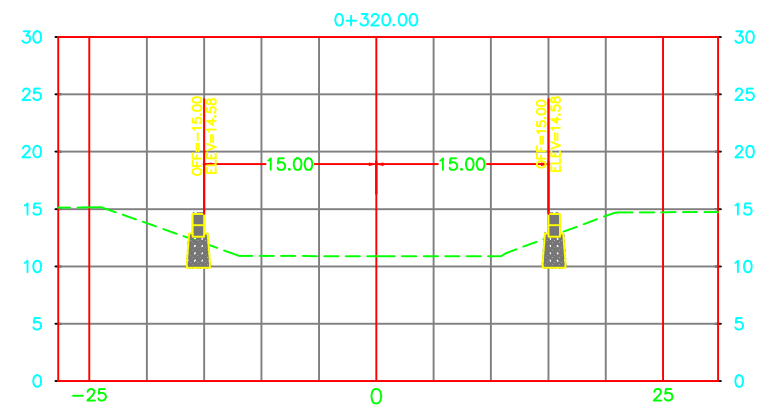
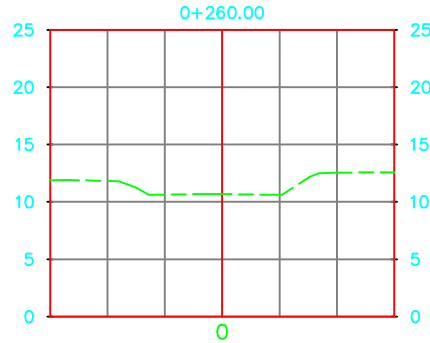
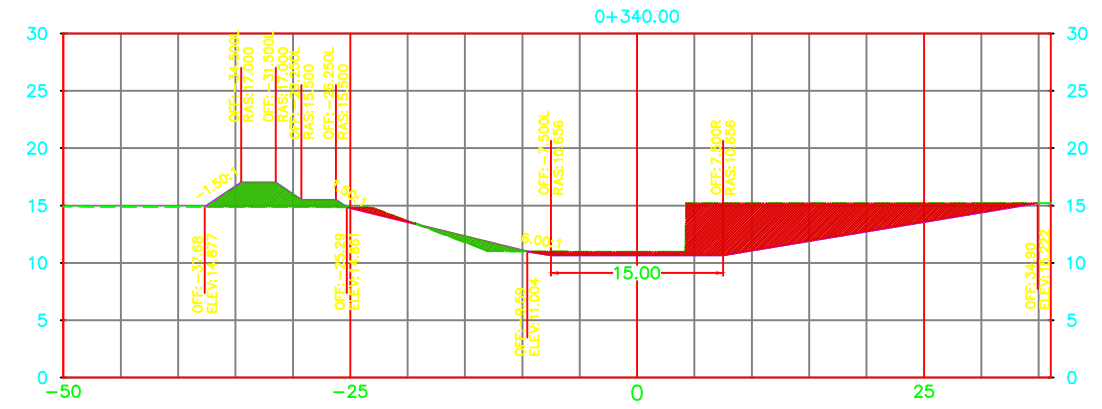
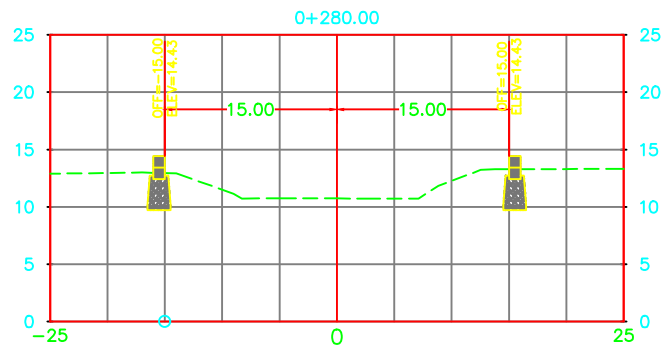


|                                                             |                                                  |                                                                   |                                   |                                                                                                                                |                                                                              |                 |                        |                               |
|-------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------|------------------------|-------------------------------|
| DISEÑO Y CALCULO:<br>ING. CANDIDO O. RIVERA<br>C.I.C.H. 921 | REVISO:<br>DEPTO. DE INGENIERIA<br>DE C.C.I.V.S. | APROBO:<br>ING. SERGIO VILLATORO<br>DIRECTOR EJECUTIVO C.C.I.V.S. | PROPIETARIO:<br><b>C.C.I.V.S.</b> | PROYECTO:<br><b>CANALIZACION Y OBRAS DE PROTECCION<br/>EN RIO CHIQUITO EN ALDEA RIO CHIQUITO<br/>MUNICIPIO DE OMOA, CORTES</b> | CONTENIDO:<br><b>HOJA PLANTA Y PERFIL<br/>BORDO M.D.<br/>(0+360 A 0+548)</b> | PLANO:<br>PP-03 | FECHA:<br>FEBRERO 2018 | ESCALA:<br>H=1:500<br>V=1:100 |
|-------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------|------------------------|-------------------------------|

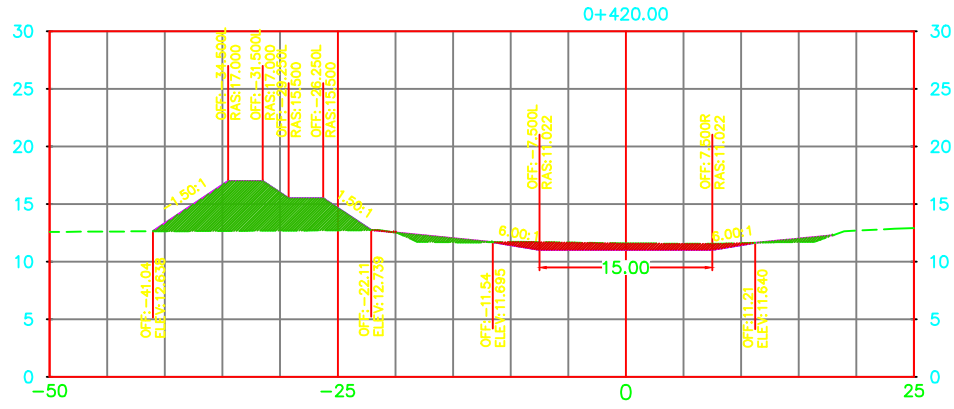
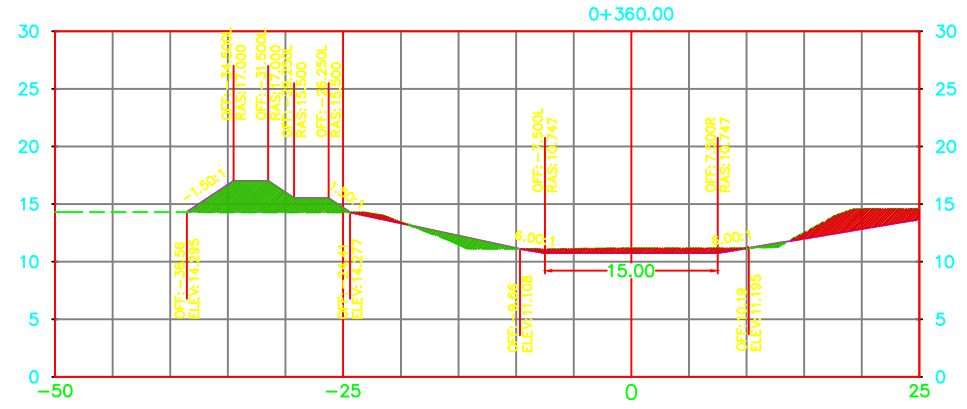
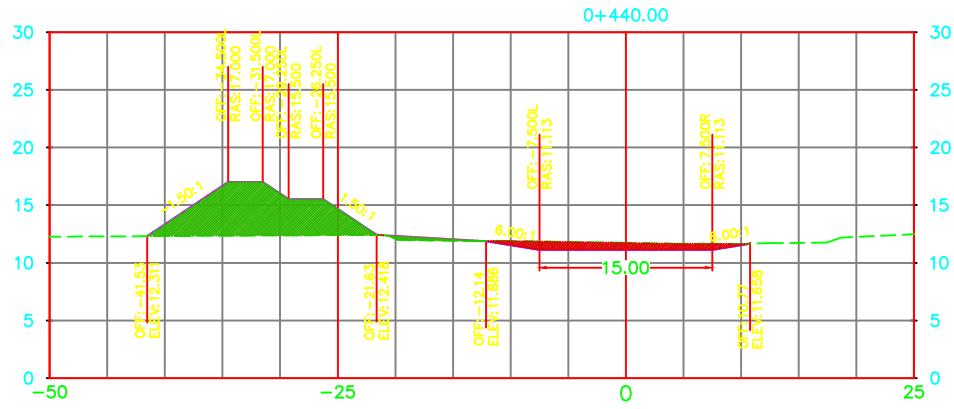
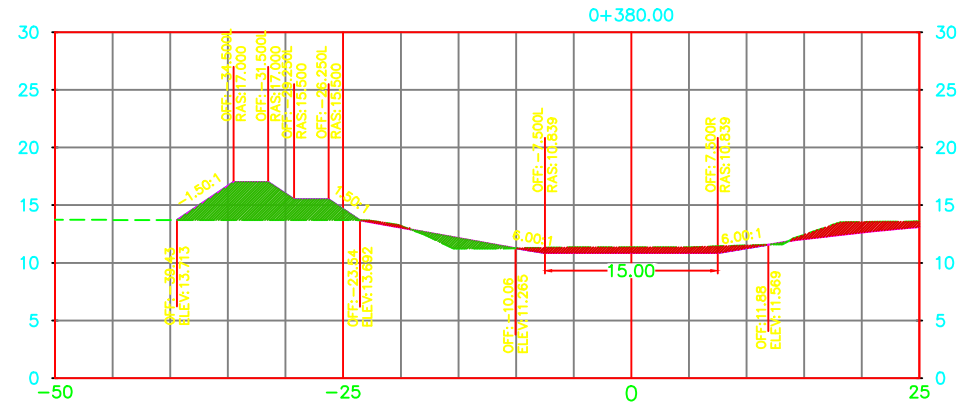
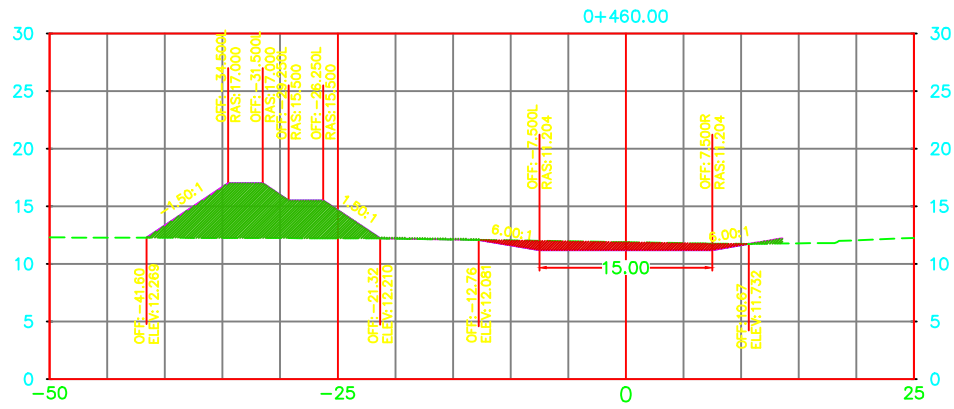
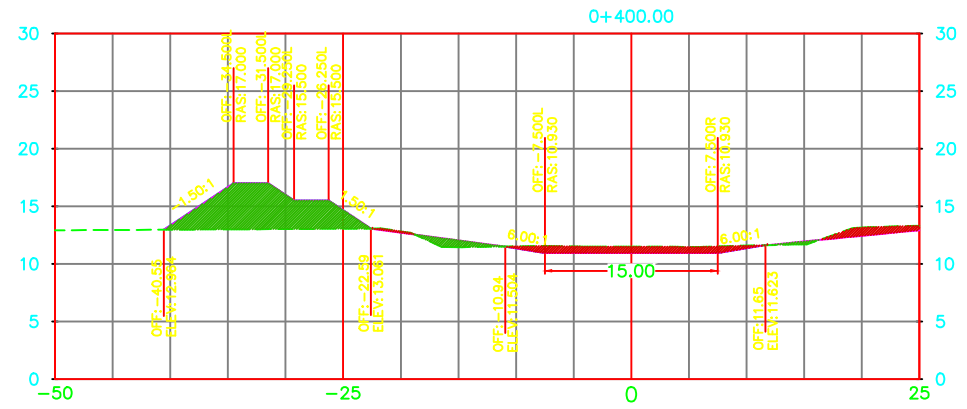




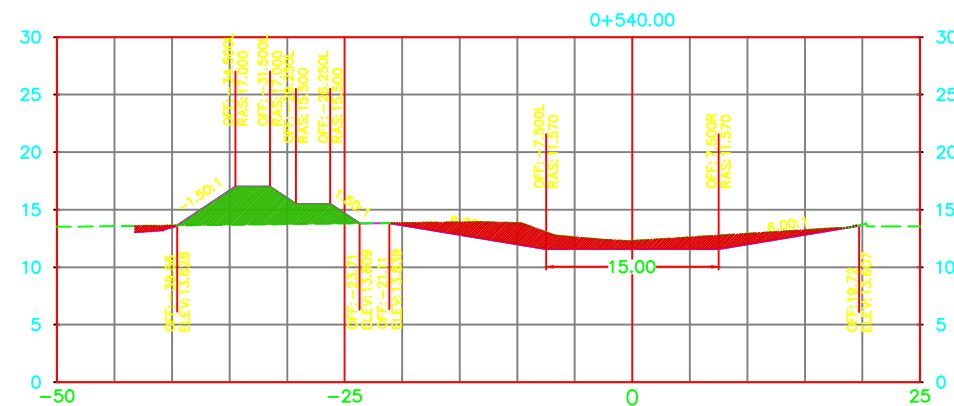
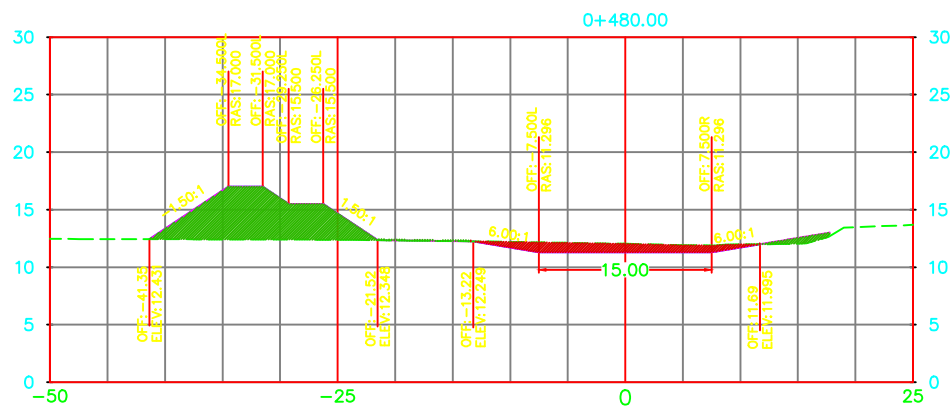
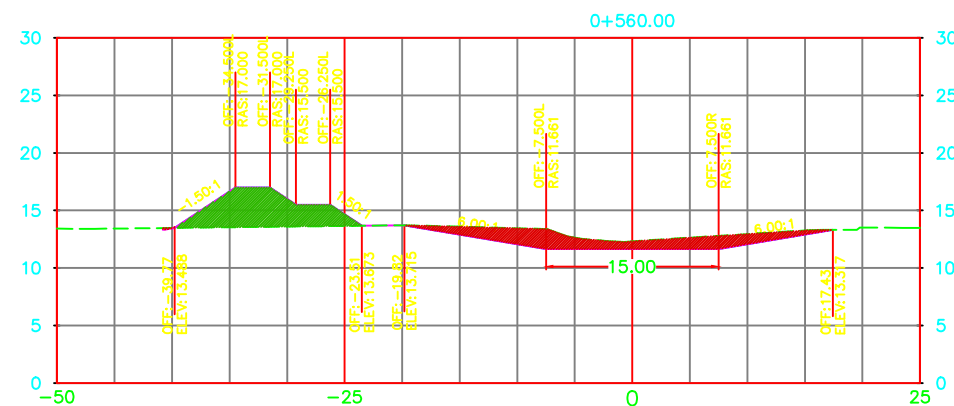
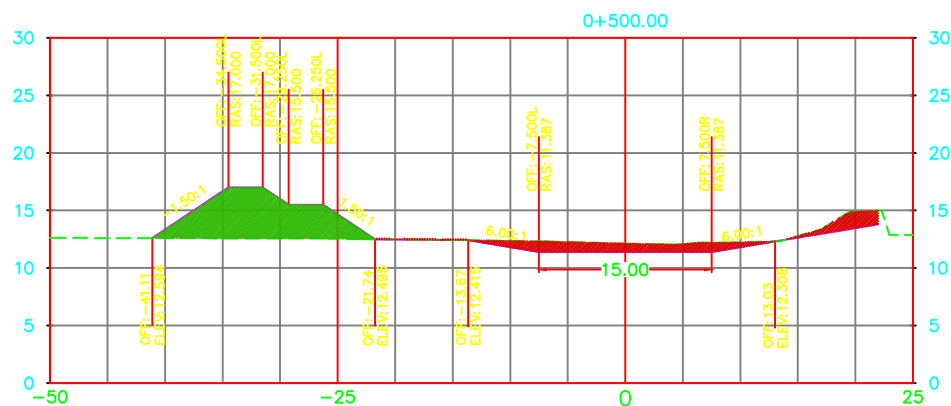
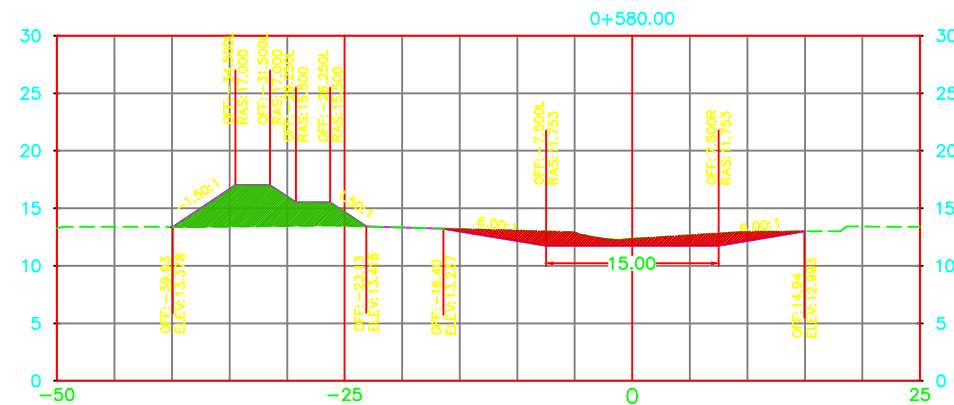
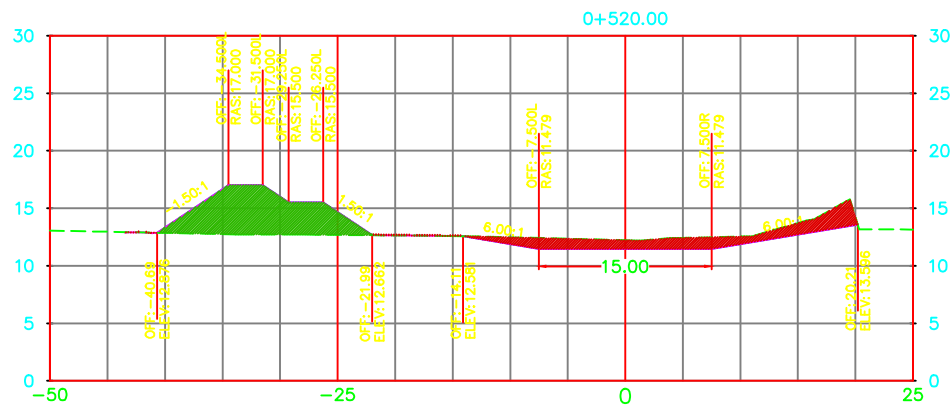
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|-------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------|------------------------|-------------------------------|
| DISEÑO Y CALCULO:<br>ING. CANDIDO O. RIVERA<br>C.I.C.H. 921 | REVISO:<br>DEPTO. DE INGENIERIA<br>DE C.C.I.V.S. | APROBO:<br>ING. SERGIO VILLATORO<br>DIRECTOR EJECUTIVO C.C.I.V.S. | PROPIETARIO:<br>C.C.I.V.S. | PROYECTO:<br>CANALIZACION Y OBRAS DE PROTECCION<br>EN RIO CHIQUITO EN ALDEA RIO CHIQUITO<br>MUNICIPIO DE OMOA, CORTES | CONTENIDO:<br>SECCIONES TRANSVERSALES<br>(0+000 A 0+220) | PLANO:<br>ST-01 | FECHA:<br>FEBRERO 2018 | ESCALA:<br>H=1:500<br>V=1:500 |
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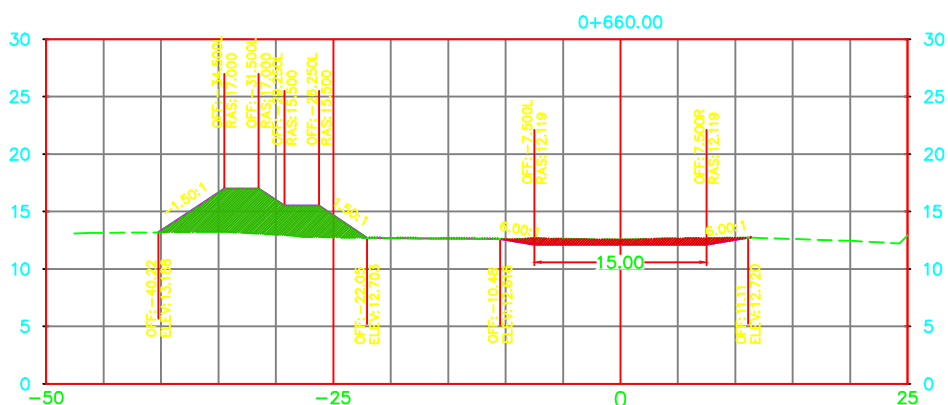
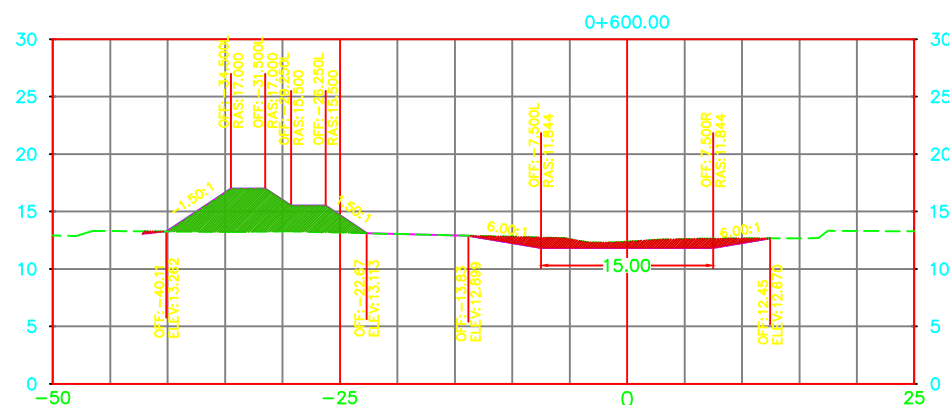
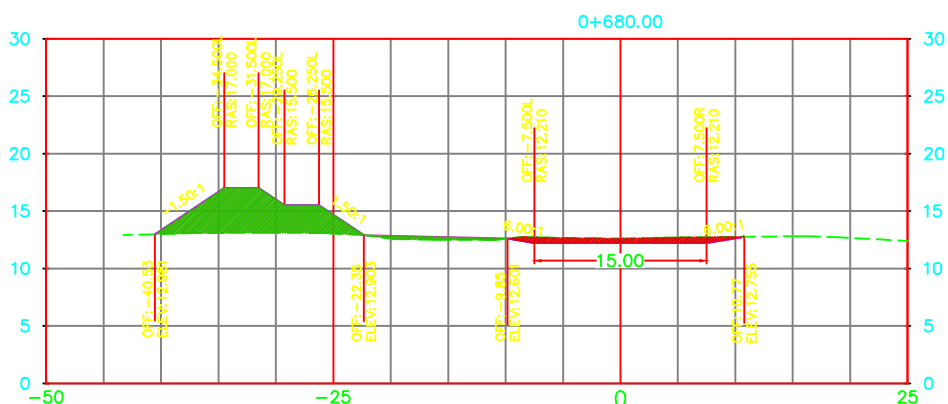
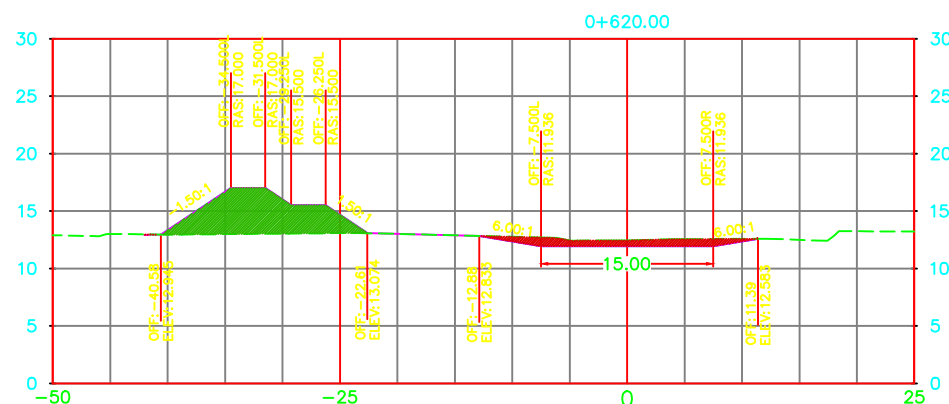
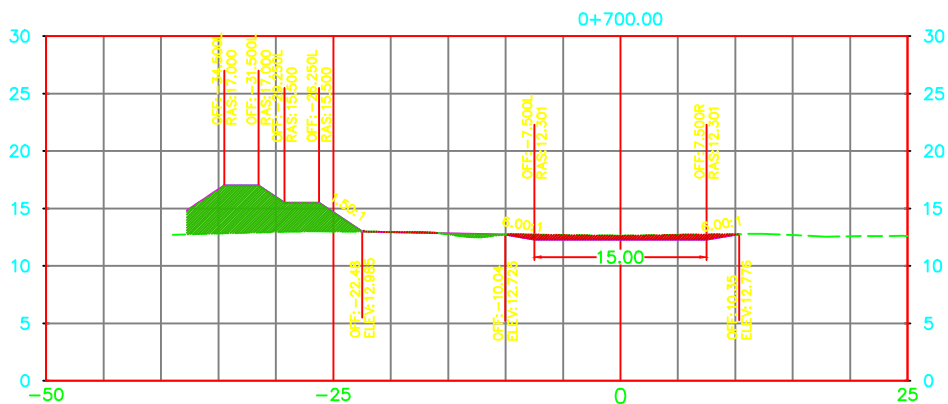
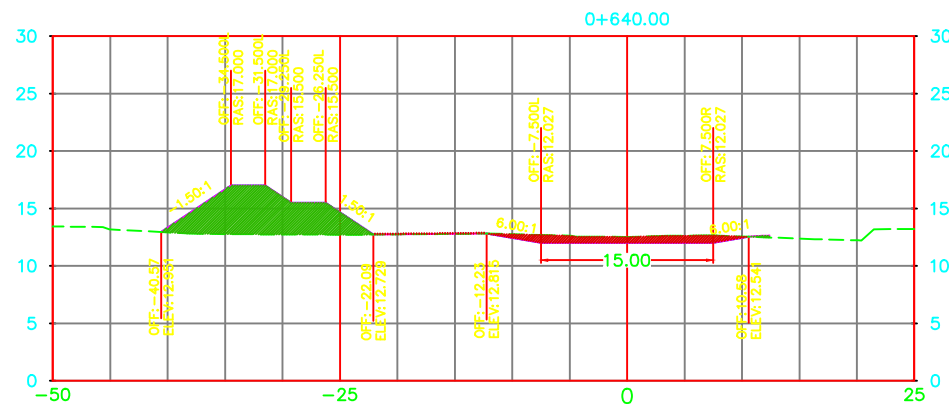
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|-------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------|------------------------|-------------------------------|
| DISEÑO Y CALCULO:<br>ING. CANDIDO O. RIVERA<br>C.I.C.H. 921 | REVISO:<br>DEPTO. DE INGENIERIA<br>DE C.C.I.V.S. | APROBO:<br>ING. SERGIO VILLATORO<br>DIRECTOR EJECUTIVO C.C.I.V.S. | PROPIETARIO:<br><b>C.C.I.V.S.</b> | PROYECTO:<br><b>CANALIZACION Y OBRAS DE PROTECCION<br/>EN RIO CHIQUITO EN ALDEA RIO CHIQUITO<br/>MUNICIPIO DE OMOA, CORTES</b> | CONTENIDO:<br><b>SECCIONES TRANSVERSALES<br/>(0+240 A 0+340)</b> | PLANO:<br>ST-02 | FECHA:<br>FEBRERO 2018 | ESCALA:<br>H=1:500<br>V=1:500 |
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|                                                             |                                                  |                                                                   |                            |                                                                                                                       |                                                          |                 |                        |                               |
|-------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------|------------------------|-------------------------------|
| DISEÑO Y CALCULO:<br>ING. CANDIDO O. RIVERA<br>C.I.C.H. 921 | REVISO:<br>DEPTO. DE INGENIERIA<br>DE C.C.I.V.S. | APROBO:<br>ING. SERGIO VILLATORO<br>DIRECTOR EJECUTIVO C.C.I.V.S. | PROPIETARIO:<br>C.C.I.V.S. | PROYECTO:<br>CANALIZACION Y OBRAS DE PROTECCION<br>EN RIO CHIQUITO EN ALDEA RIO CHIQUITO<br>MUNICIPIO DE OMOA, CORTES | CONTENIDO:<br>SECCIONES TRANSVERSALES<br>(0+360 A 0+460) | PLANO:<br>ST-03 | FECHA:<br>FEBRERO 2018 | ESCALA:<br>H=1:500<br>V=1:500 |
|-------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------|------------------------|-------------------------------|



|                                                             |                                                  |                                                                   |                                   |                                                                                                                              |                                                                  |                 |                        |                               |
|-------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------|------------------------|-------------------------------|
| DISEÑO Y CALCULO:<br>ING. CANDIDO O. RIVERA<br>C.I.C.H. 921 | REVISO:<br>DEPTO. DE INGENIERIA<br>DE C.C.I.V.S. | APROBO:<br>ING. SERGIO VILLATORO<br>DIRECTOR EJECUTIVO C.C.I.V.S. | PROPIETARIO:<br><i>C.C.I.V.S.</i> | PROYECTO:<br><i>CANALIZACION Y OBRAS DE PROTECCION<br/>EN RIO CHQUITO EN ALDEA RIO CHQUITO<br/>MUNICIPIO DE OMOA, CORTES</i> | CONTENIDO:<br><i>SECCIONES TRANSVERSALES<br/>(0+480 A 0+580)</i> | PLANO:<br>ST-04 | FECHA:<br>FEBRERO 2018 | ESCALA:<br>H=1:500<br>V=1:500 |
|-------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------|------------------------|-------------------------------|



**DISEÑO Y CALCULO:**  
ING. CANDIDO O. RIVERA  
C.I.C.H. 921

REVISO:  
DEPTO. DE INGENIERIA  
DE C.C.I.V.S.

APROBO:  
ING. SERGIO VILLATORO  
DIRECTOR EJECUTIVO C.C.I.V.S.

PROPIETARIO:  
**C.C.I.V.S.**

**PROYECTO:**  
**CANALIZACION Y OBRAS DE PROTECCION**  
**EN RIO CHUQUITO EN ALDEA RIO CHUQUITO**  
**MUNICIPIO DE OMOA, CORTES**

**CONTENIDO:**

**SECCIONES TRANSVERSALES  
(0+600 A 0+700)**

|        |       |
|--------|-------|
| PLANO: | ST-05 |
|--------|-------|

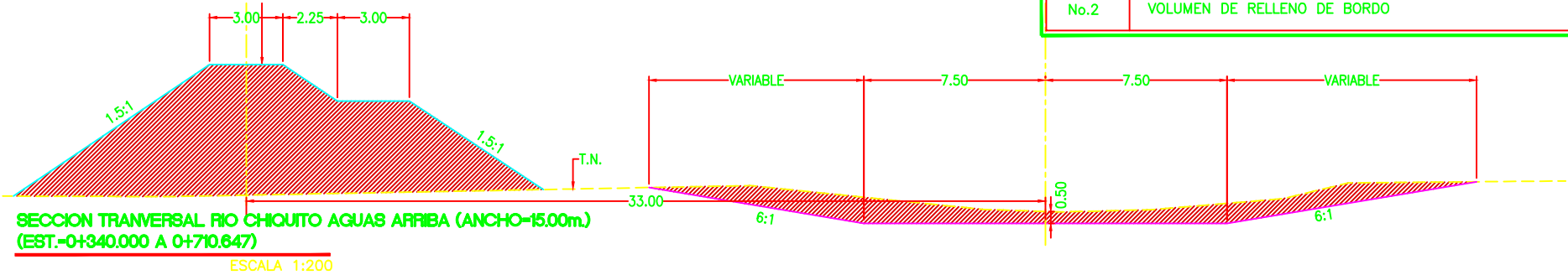
FECHA: FEBRERO 2018

ESCALA:  
H=1:500  
V=1:500

| TABLA DE CORTE Y RELLENO<br>RIO CHIQUITO |              |            |              |            |                       |                      |
|------------------------------------------|--------------|------------|--------------|------------|-----------------------|----------------------|
| ESTACION                                 | AREA RELLENO | AREA CORTE | VOL. RELLENO | VOL. CORTE | VOL RELLENO ACUMULADO | VOL. CORTE ACUMULADO |
| 0+000.00                                 | 0.00         | 0.00       | 0.00         | 0.00       | 0.00                  | 0.00                 |
| 0+020.00                                 | 0.00         | 0.00       | 0.00         | 0.00       | 0.00                  | 0.00                 |
| 0+040.00                                 | 0.00         | 0.00       | 0.00         | 0.00       | 0.00                  | 0.00                 |
| 0+060.00                                 | 0.00         | 0.00       | 0.00         | 0.00       | 0.00                  | 0.00                 |
| 0+080.00                                 | 0.00         | 0.00       | 0.00         | 0.00       | 0.00                  | 0.00                 |
| 0+100.00                                 | 0.00         | 0.00       | 0.00         | 0.00       | 0.00                  | 0.00                 |
| 0+120.00                                 | 0.00         | 0.00       | 0.00         | 0.00       | 0.00                  | 0.00                 |
| 0+140.00                                 | 0.00         | 0.00       | 0.00         | 0.00       | 0.00                  | 0.00                 |
| 0+160.00                                 | 0.00         | 0.00       | 0.00         | 0.00       | 0.00                  | 0.00                 |
| 0+180.00                                 | 0.00         | 0.00       | 0.00         | 0.00       | 0.00                  | 0.00                 |
| 0+200.00                                 | 0.00         | 0.00       | 0.00         | 0.00       | 0.00                  | 0.00                 |
| 0+220.00                                 | 0.00         | 0.00       | 0.00         | 0.00       | 0.00                  | 0.00                 |
| 0+240.00                                 | 0.00         | 0.00       | 0.00         | 0.00       | 0.00                  | 0.00                 |
| 0+260.00                                 | 0.00         | 0.00       | 0.00         | 0.00       | 0.00                  | 0.00                 |
| 0+280.00                                 | 0.00         | 0.00       | 0.00         | 0.00       | 0.00                  | 0.00                 |
| 0+300.00                                 | 0.00         | 0.00       | 0.00         | 0.00       | 0.00                  | 0.00                 |
| 0+320.00                                 | 0.00         | 0.00       | 0.00         | 0.00       | 0.00                  | 0.00                 |
| 0+340.00                                 | 19.02        | 83.05      | 235.48       | 739.91     | 235.48                | 739.91               |
| 0+360.00                                 | 27.81        | 21.80      | 468.28       | 1048.52    | 703.75                | 1788.43              |
| 0+380.00                                 | 36.19        | 18.24      | 640.01       | 400.44     | 1343.76               | 2188.88              |

| TABLA DE CORTE Y RELLENO<br>RIO CHIQUITO |              |            |              |            |                       |                      |
|------------------------------------------|--------------|------------|--------------|------------|-----------------------|----------------------|
| ESTACION                                 | AREA RELLENO | AREA CORTE | VOL. RELLENO | VOL. CORTE | VOL RELLENO ACUMULADO | VOL. CORTE ACUMULADO |
| 0+400.00                                 | 46.95        | 15.71      | 1284.92      | 295.76     | 2628.68               | 2484.64              |
| 0+420.00                                 | 53.29        | 11.28      | 1002.38      | 269.92     | 3631.06               | 2754.56              |
| 0+440.00                                 | 57.03        | 11.93      | 1103.20      | 232.12     | 4734.27               | 2986.68              |
| 0+460.00                                 | 58.68        | 13.04      | 1157.13      | 249.65     | 5891.40               | 3236.33              |
| 0+480.00                                 | 57.05        | 14.68      | 1157.35      | 277.14     | 7048.75               | 3513.47              |
| 0+500.00                                 | 51.68        | 23.04      | 1087.36      | 377.17     | 8136.11               | 3890.64              |
| 0+520.00                                 | 48.16        | 29.30      | 998.45       | 523.38     | 9134.56               | 4414.02              |
| 0+540.00                                 | 31.32        | 37.66      | 490.86       | 669.13     | 9625.42               | 5083.15              |
| 0+560.00                                 | 33.54        | 30.44      | 648.67       | 681.00     | 10274.09              | 5764.15              |
| 0+580.00                                 | 35.97        | 22.60      | 695.14       | 530.46     | 10969.23              | 6294.60              |
| 0+600.00                                 | 39.50        | 15.20      | 754.72       | 378.03     | 11723.95              | 6672.64              |
| 0+620.00                                 | 43.18        | 11.95      | 552.77       | 268.81     | 12276.72              | 6941.45              |
| 0+640.00                                 | 47.93        | 11.09      | 911.08       | 230.40     | 13187.80              | 7171.85              |
| 0+660.00                                 | 43.46        | 9.55       | 1229.67      | 206.64     | 14417.48              | 7378.49              |
| 0+680.00                                 | 44.69        | 8.26       | 881.46       | 178.06     | 15298.94              | 7556.55              |
| 0+700.00                                 | 43.14        | 7.33       | 878.33       | 155.86     | 16177.27              | 7712.41              |
| 0+710.65                                 | 0.00         | 5.92       | 229.67       | 70.52      | 16406.94              | 7782.93              |

| RESUMEN DE TERRACERIA CALCULO NETO PARA BORDO |                             |          |            |
|-----------------------------------------------|-----------------------------|----------|------------|
| ITEM                                          | DESCRIPCION                 | CORTE M3 | RELLENO M3 |
| No.1                                          | VOLUMEN DE CANALIZACION     | 7,782.93 | 0.00       |
| No.2                                          | VOLUMEN DE RELLENO DE BORDO | 0.00     | 16,406.94  |



|                                                             |                                                  |                                                                   |                                   |                                                                                                                                |                                                                      |                 |                        |                               |
|-------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------|------------------------|-------------------------------|
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|-------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------|------------------------|-------------------------------|