



PROYECTO CONSTRUCTIVO DE:

DEPÓSITO DE TORMENTAS JUNTO AL CEMENTERIO DE TORRERO EN EL T.M. DE ZARAGOZA

DOCUMENTO 02. PLANOS

Historial de revisión						
Rev.	Fecha	Descripción	Autor	Revisor	Observaciones	Aprobación del cliente
1	Septiembre 2025	Documento 02. Planos	Eduardo Lastrada Marcén	Guillermo Cobos Campos	Entrega V1	José Ángel Navamuel Aparicio
2	Octubre 2025	Documento 02. Planos	Eduardo Lastrada Marcén	Guillermo Cobos Campos	Entrega Final	José Ángel Navamuel Aparicio
3						
4						
5						

Declaración Responsable:

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La preparación de este informe ha estado de acuerdo con la información e indicaciones proporcionados por el cliente y se ha confiado en la información, los datos y los resultados previstos o recogidos de las fuentes.

Toda la información contenida en este informe está preparada para el uso exclusivo del cliente y no debe ser utilizado para ningún otro propósito o por cualquier otra persona o entidad sin su consentimiento. No debe confiarse en la información contenida en este informe para cualquier otro propósito aparte de los expuestos en él.

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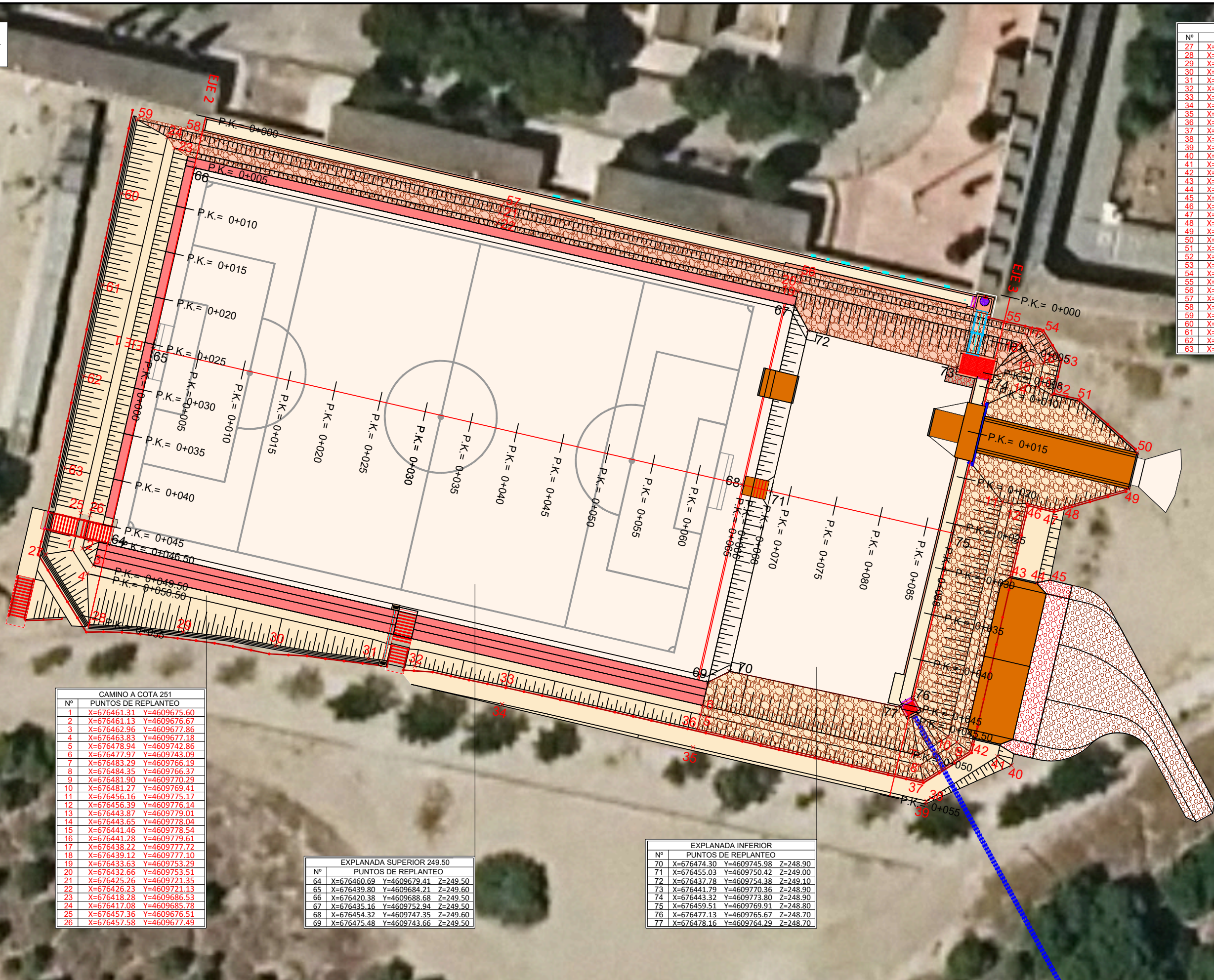
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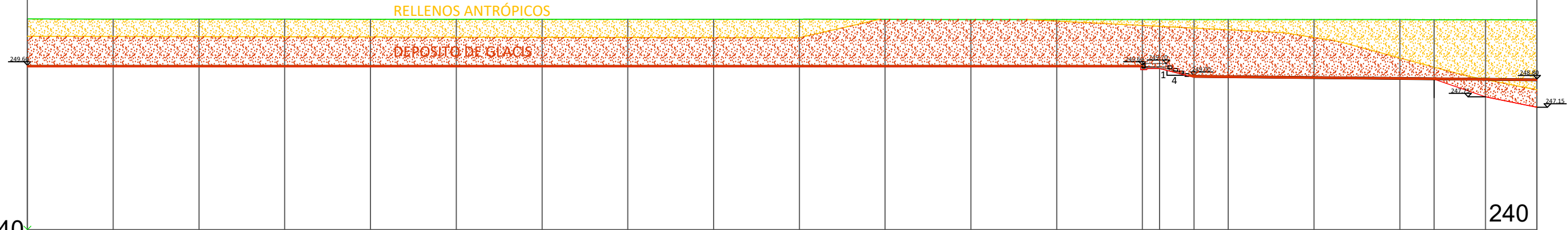




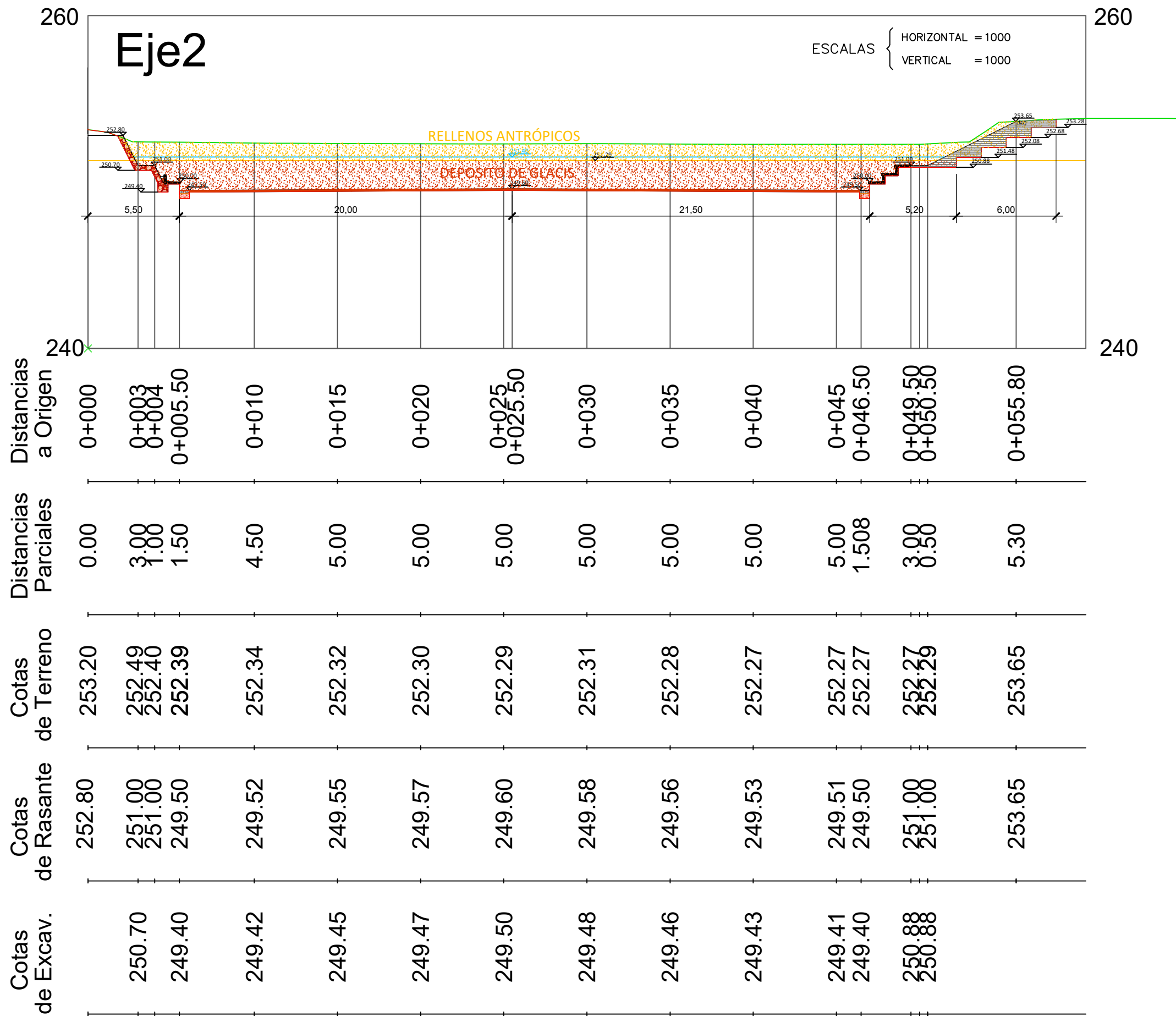
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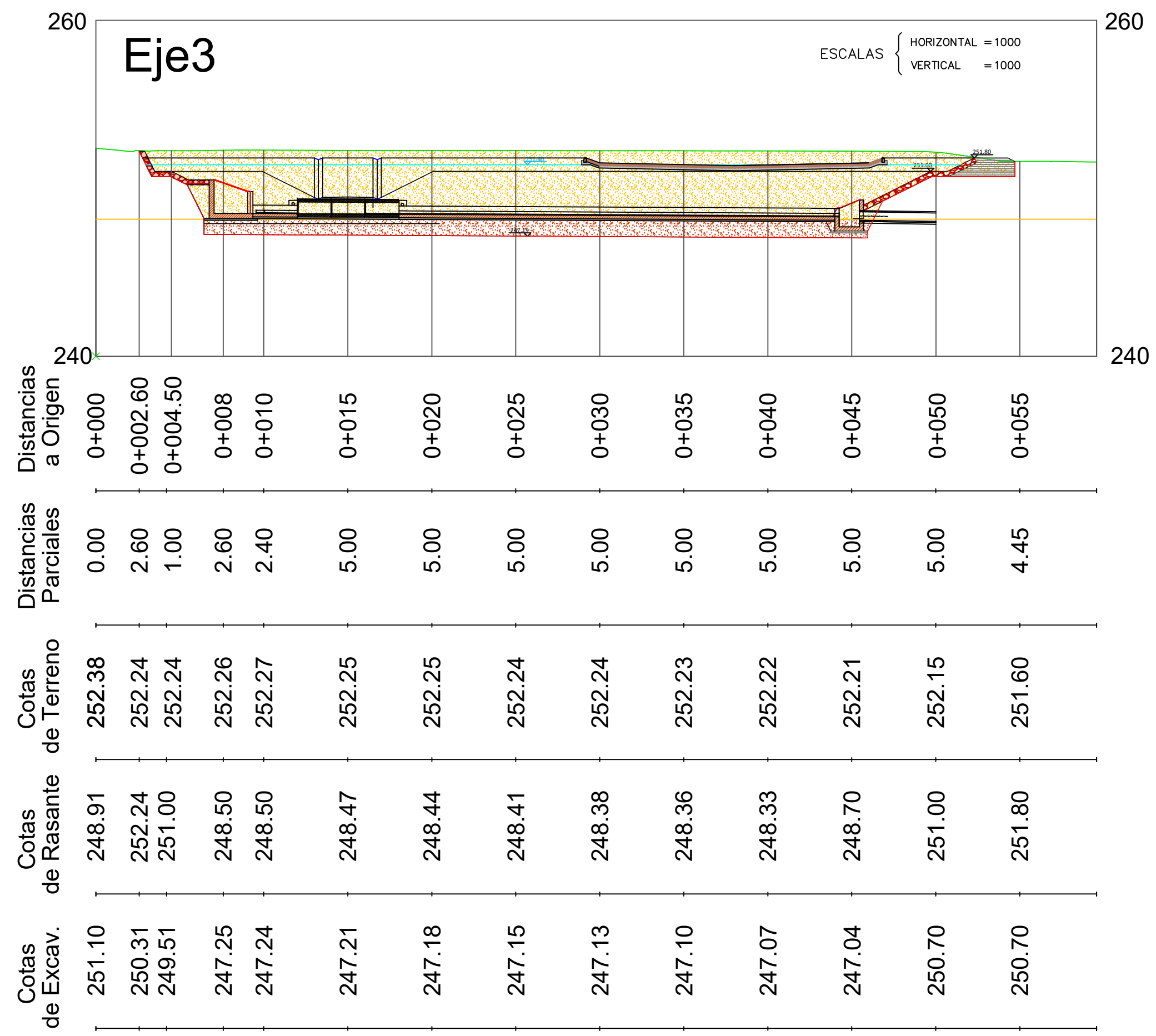
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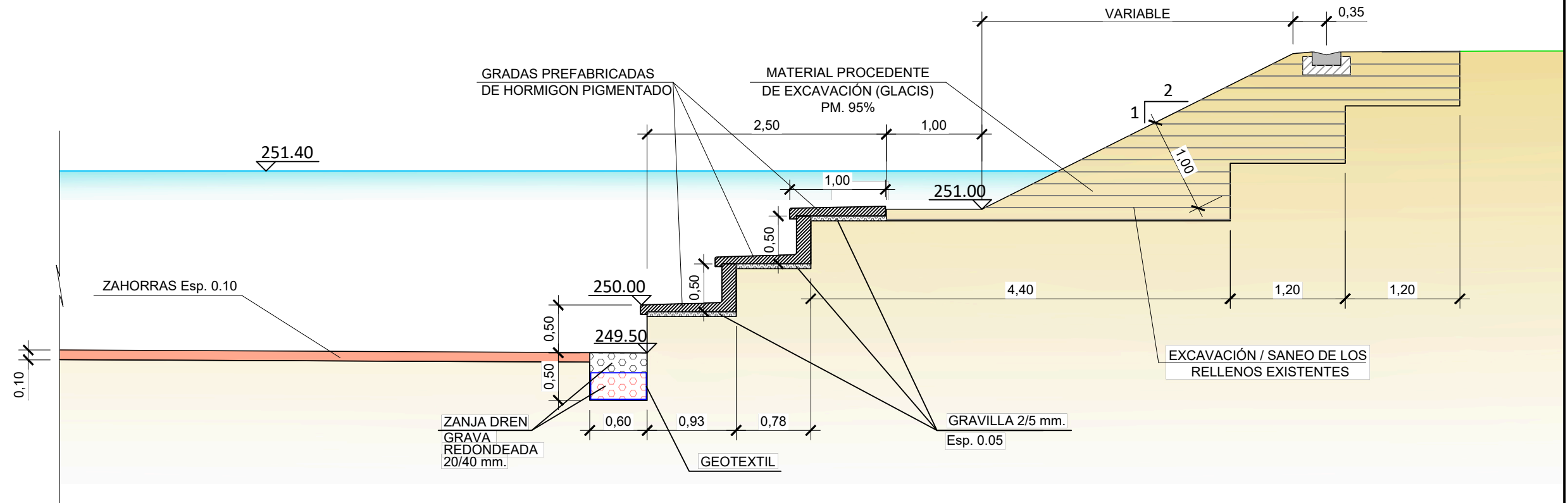


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249.50	249.60	252.29	5.00	0+005
249.50	249.60	252.28	5.00	0+010
249.50	249.60	252.28	5.00	0+015
249.50	249.60	252.28	5.00	0+020
249.50	249.60	252.28	5.00	0+025
249.50	249.60	252.27	5.00	0+030
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249.50	249.60	252.27	5.00	0+050
249.50	249.60	252.26	5.00	0+055
249.50	249.60	252.26	5.00	0+060
249.50	249.60	252.26	5.00	0+065
249.50	249.70	252.26	1.00	0+066
249.00	249.00	252.26	2.00	0+068
248.88	248.98	252.26	2.00	0+070
248.83	248.93	252.26	5.00	0+075
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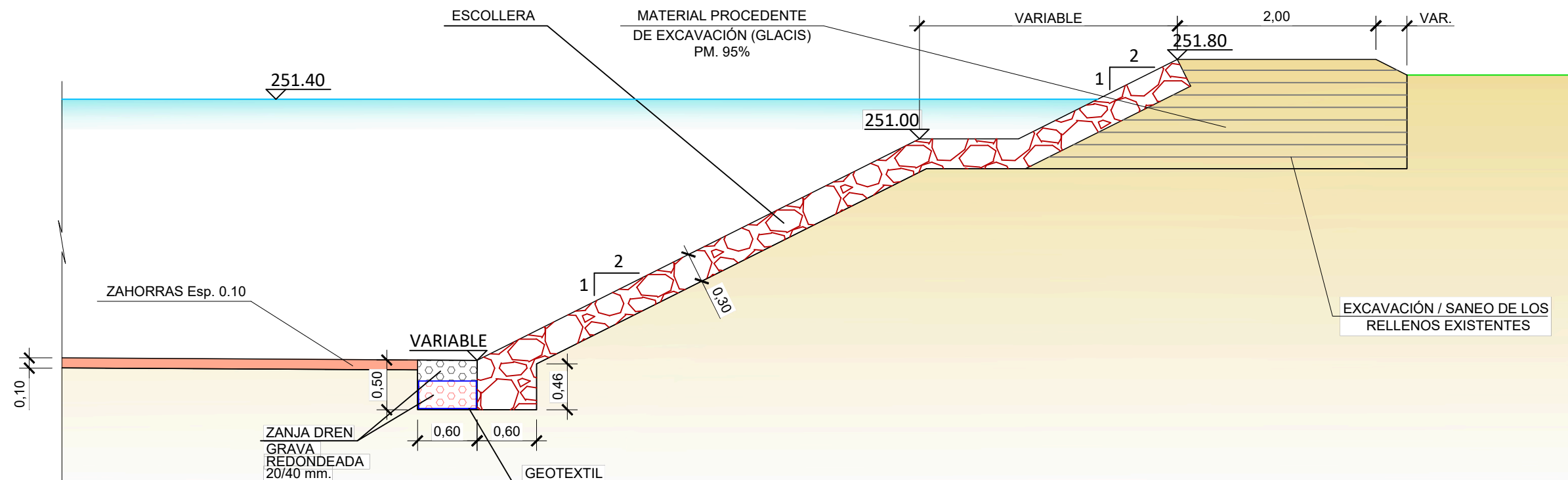




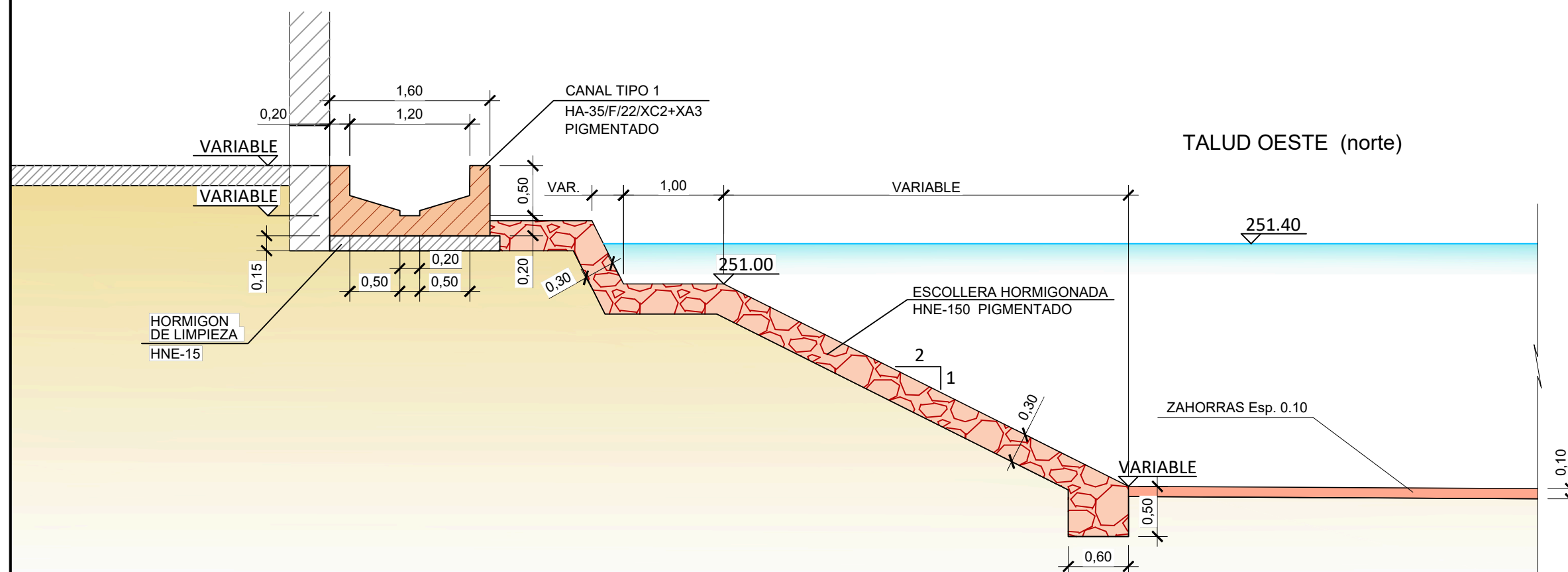
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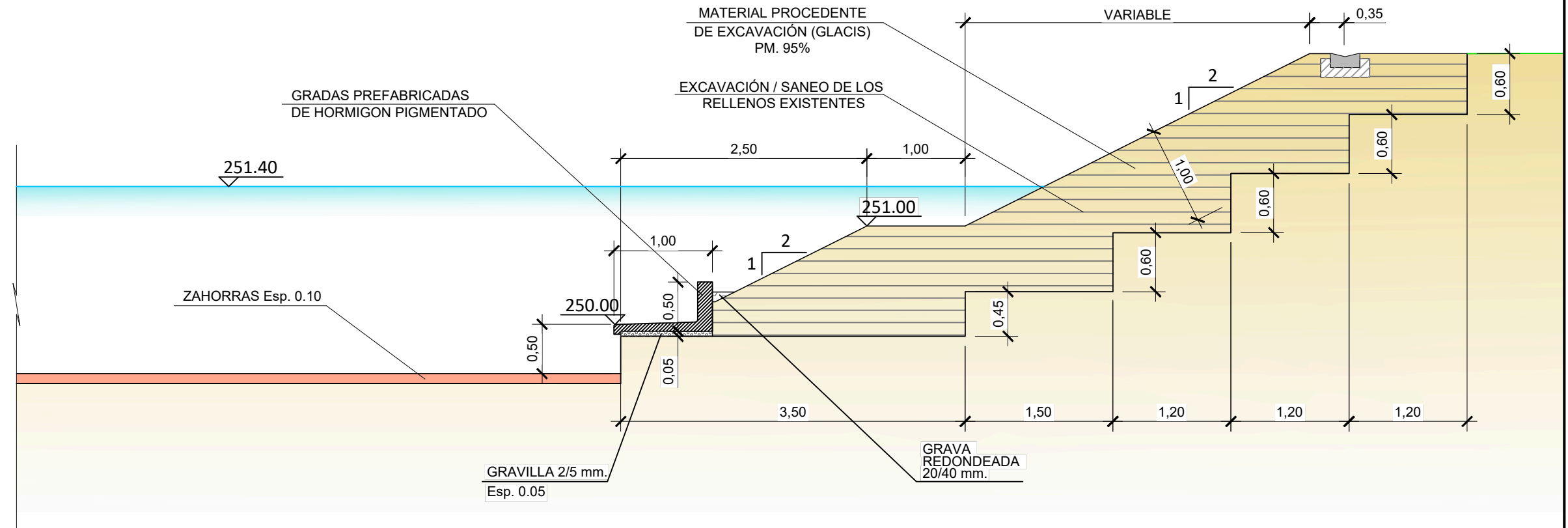
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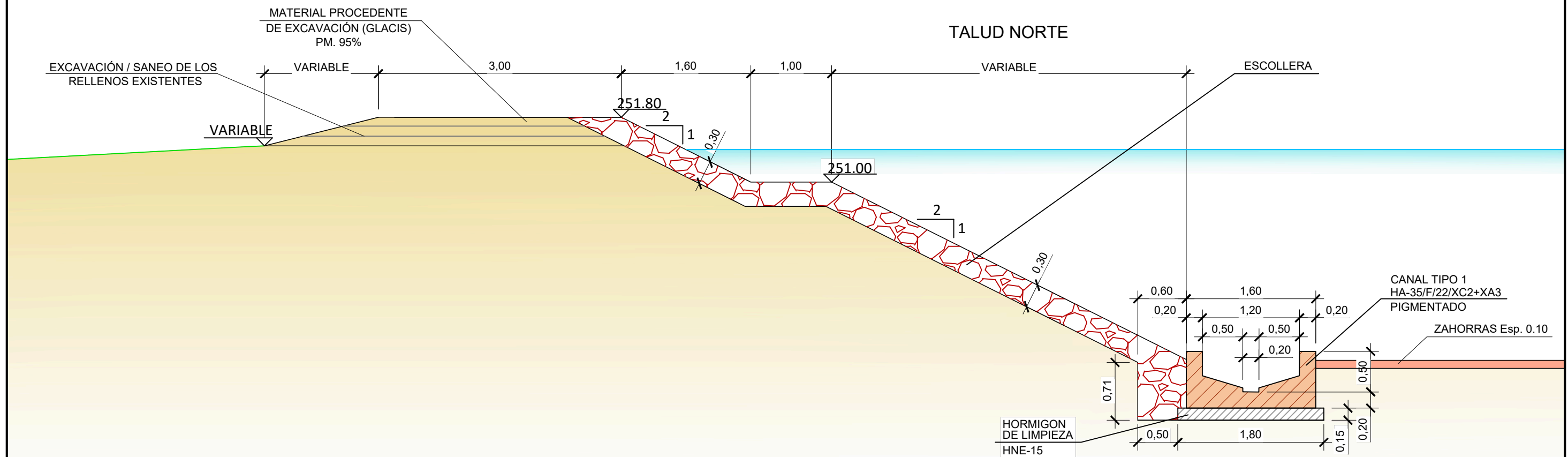
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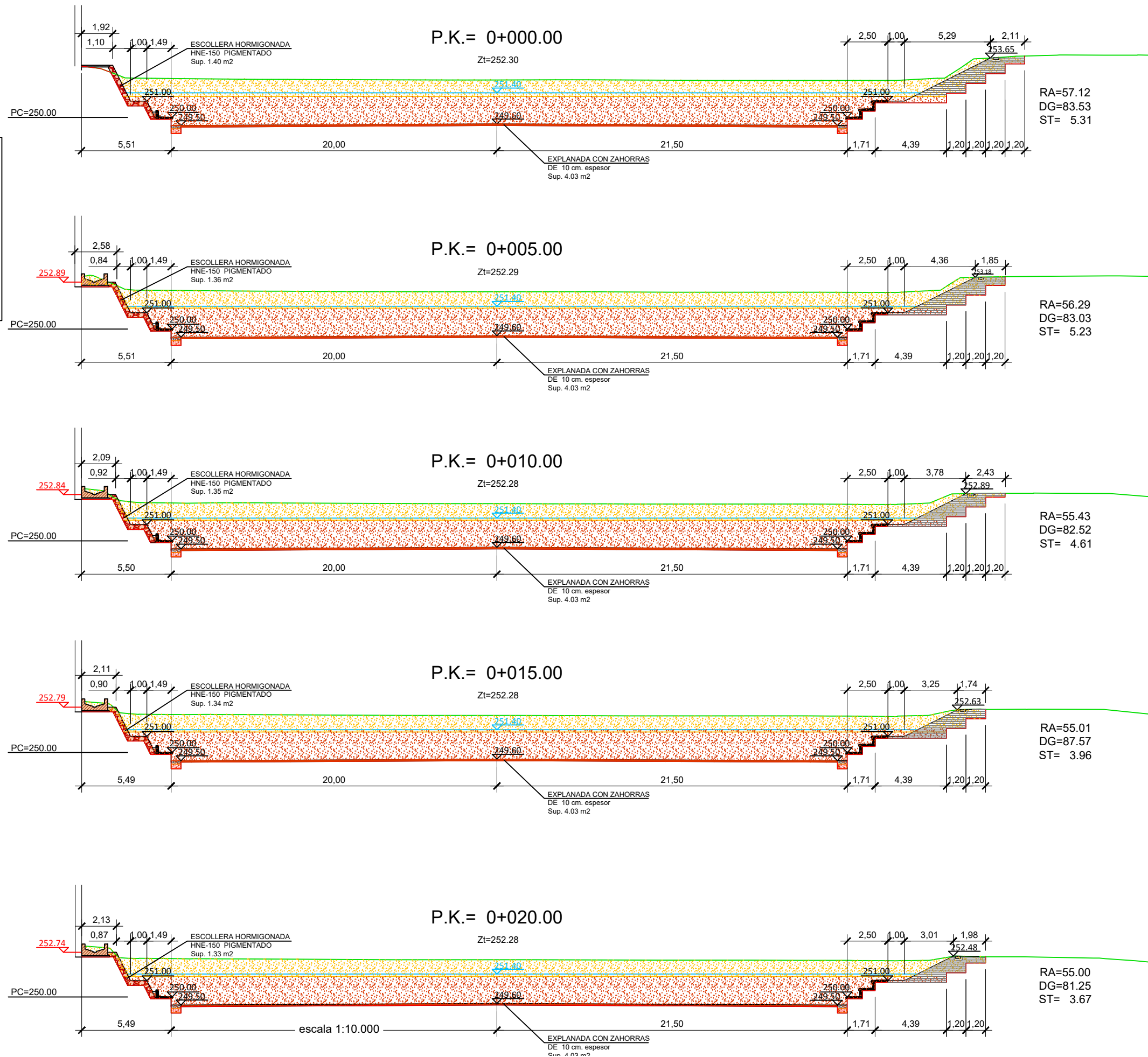
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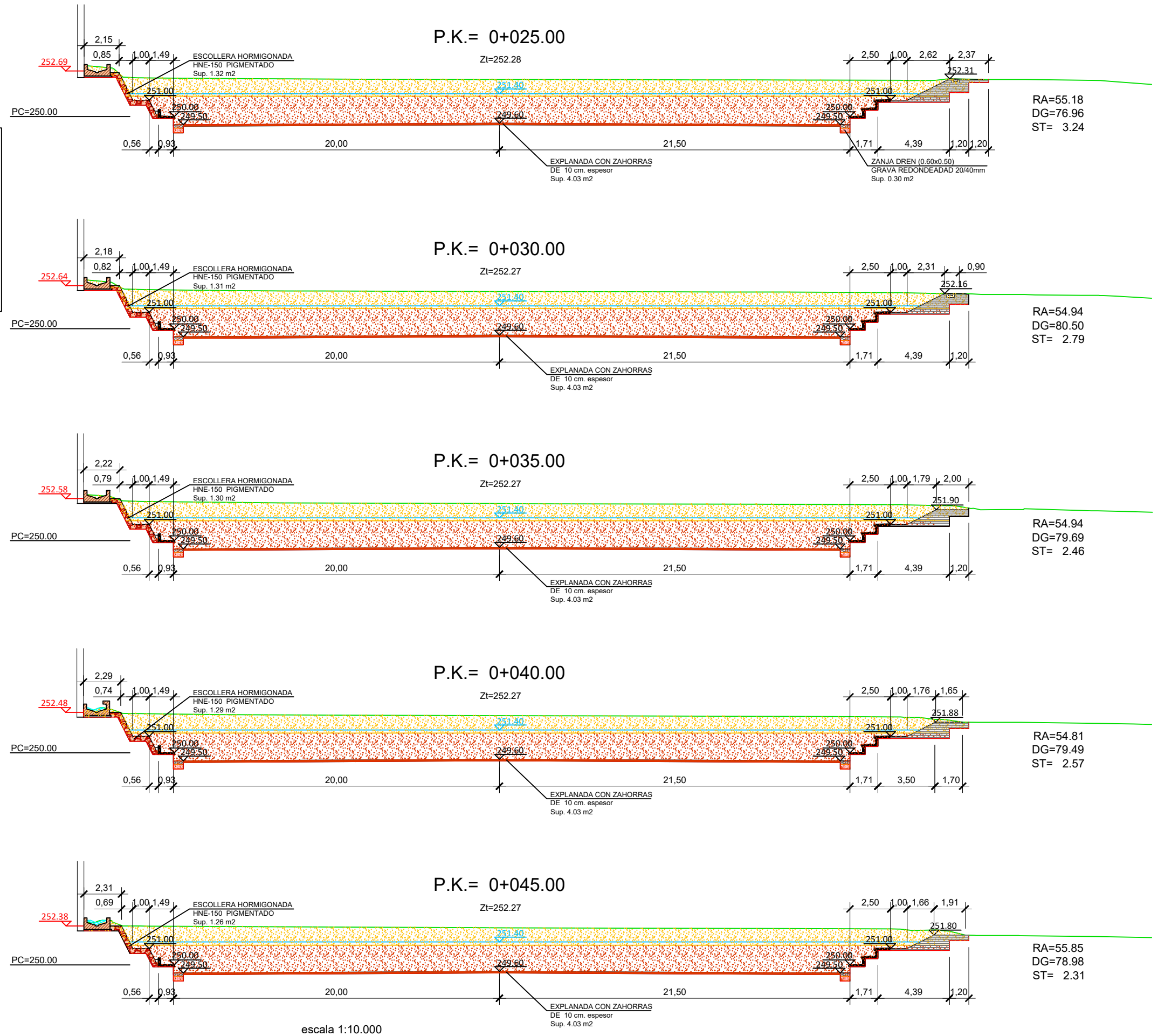
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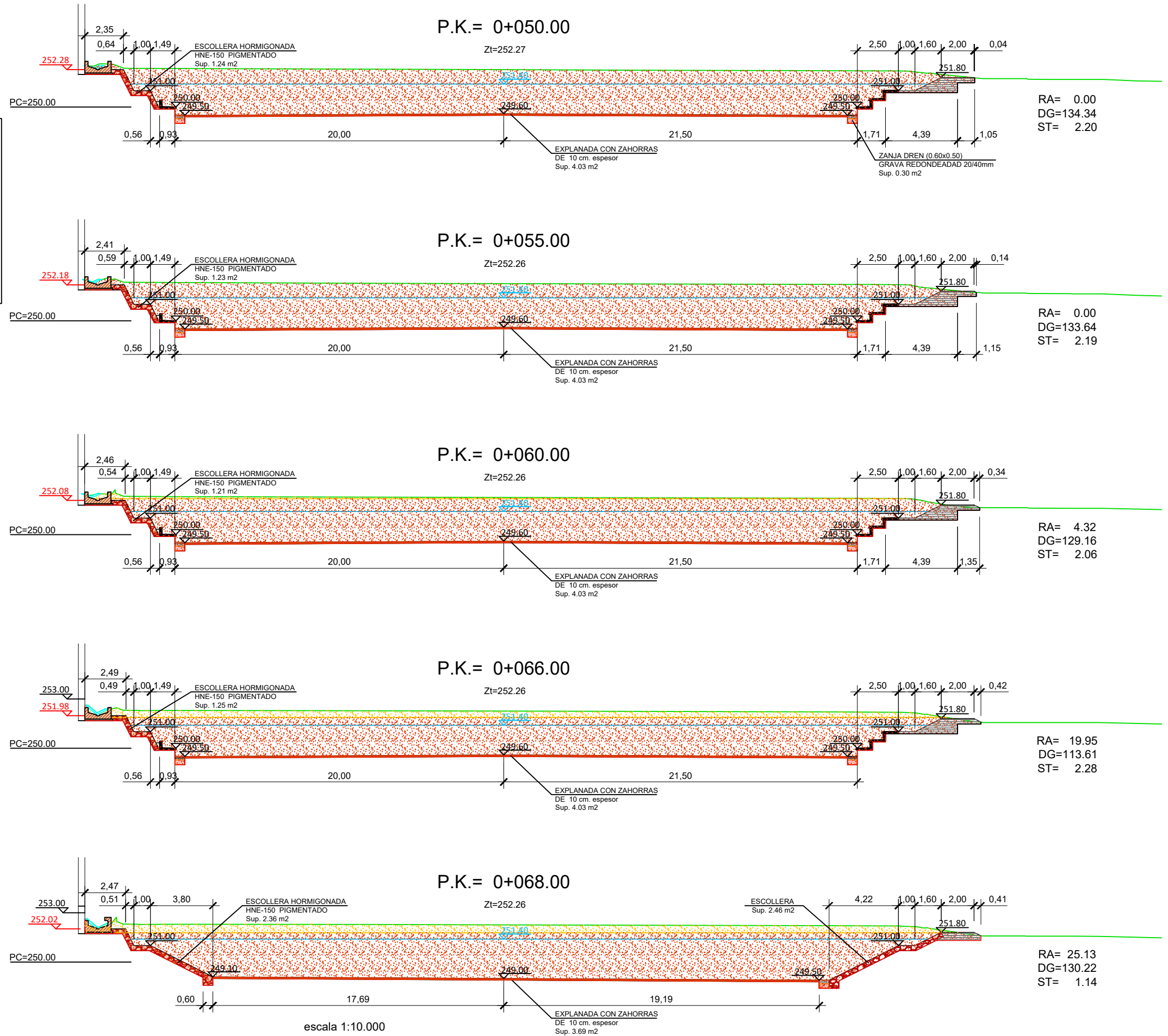
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- ST SANEIO TERRENO (GLACIS)
- ST EXPLANADA DE ZAHORRAS
- ZD ZANJA DREN (0.60x0.50)
GRAVA REDONDEADAD 20/40mm
Sup. 0.30 m2



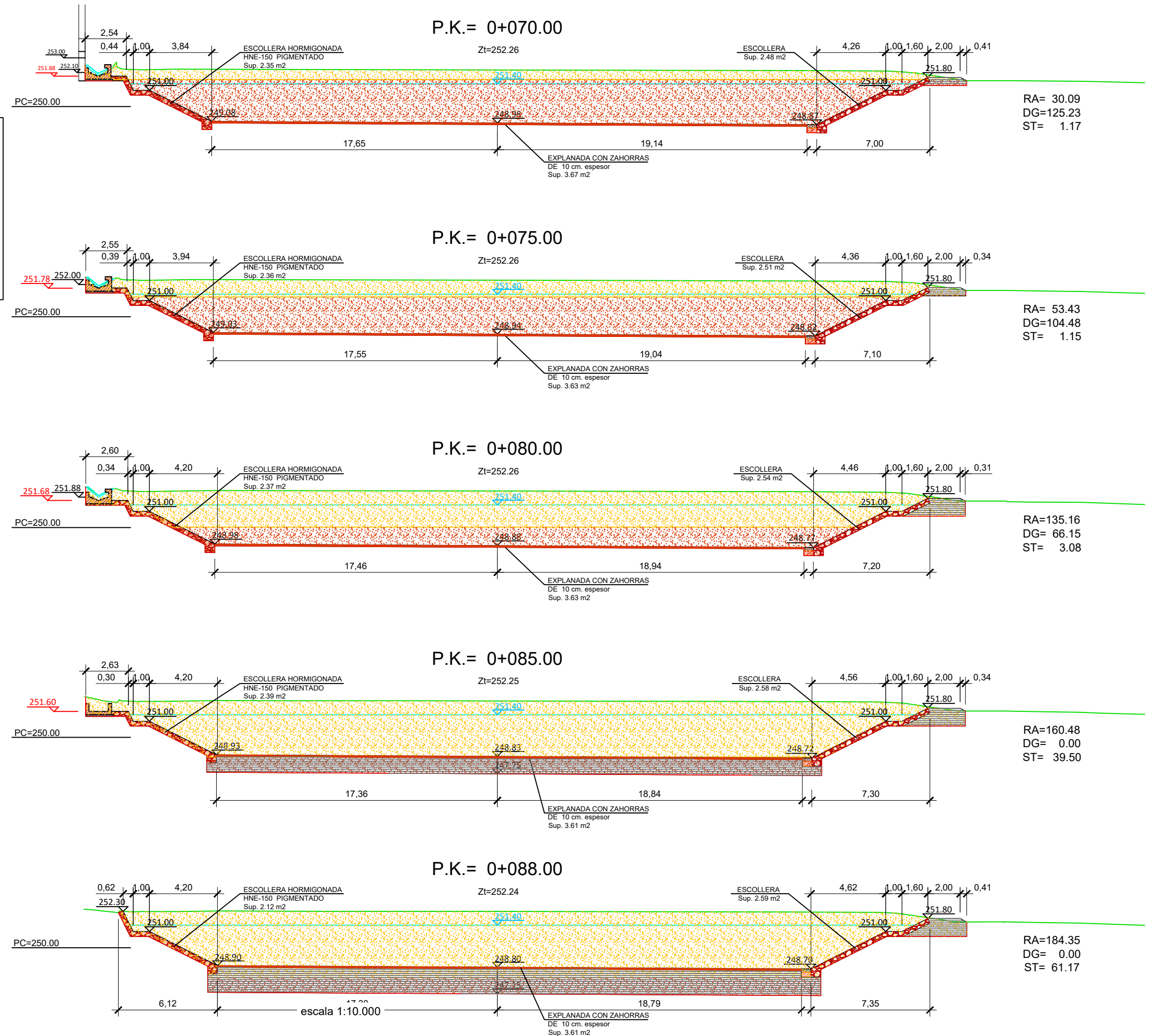
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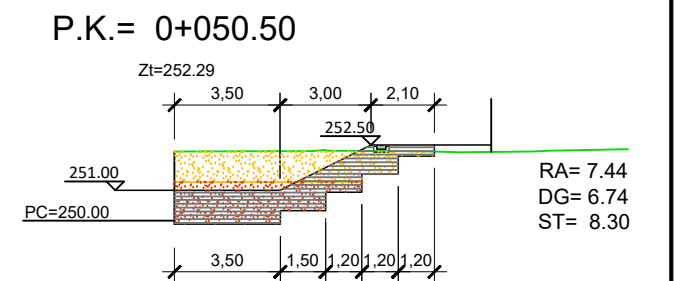
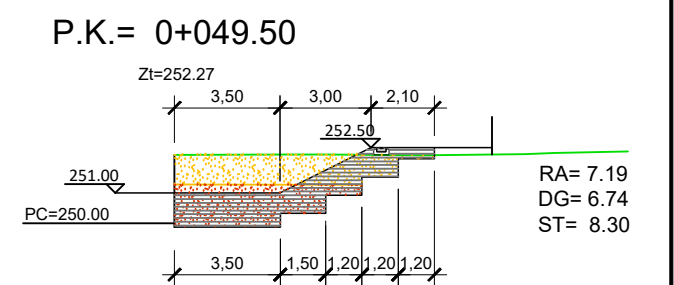
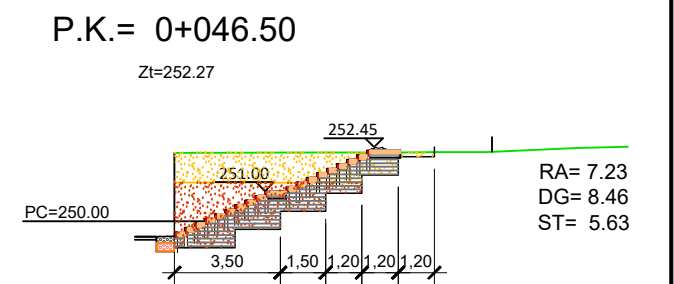
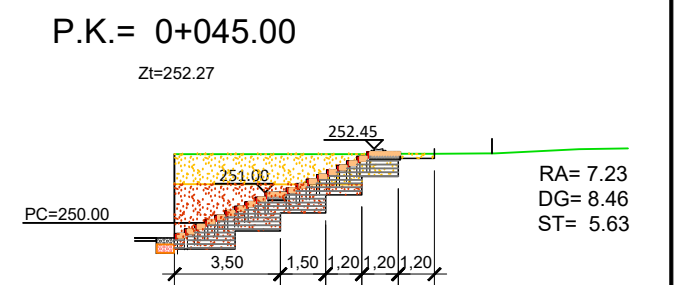
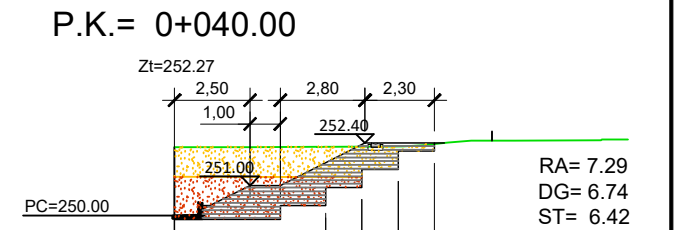
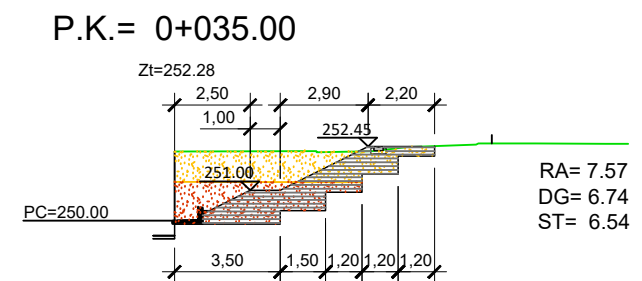
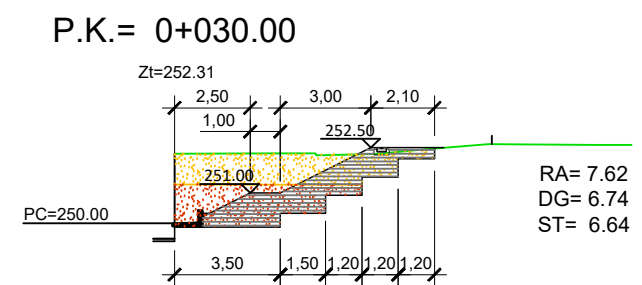
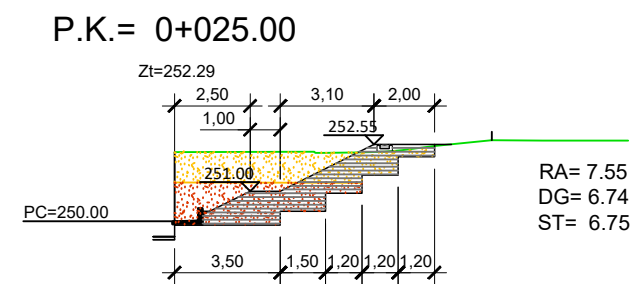
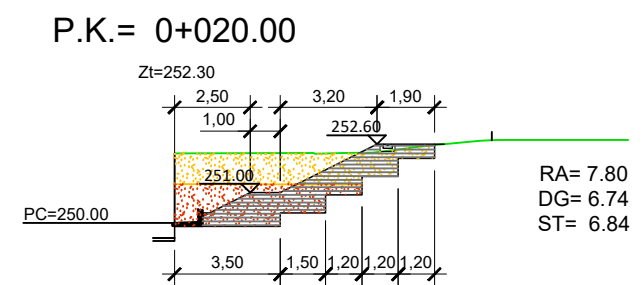
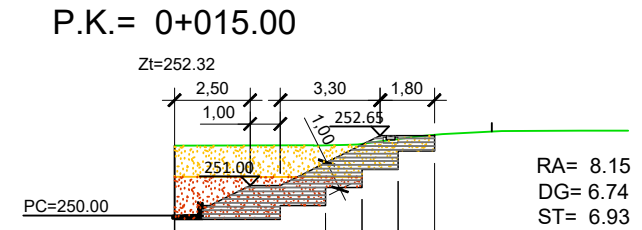
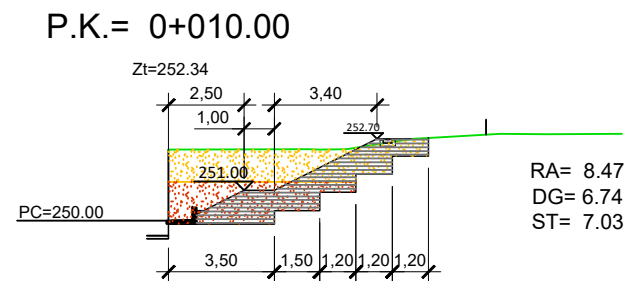
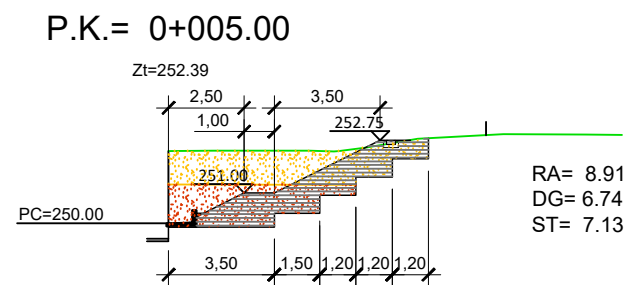
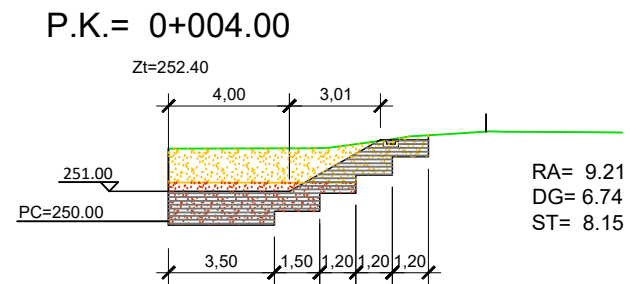
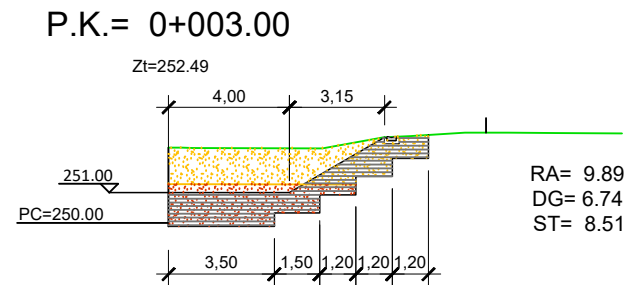
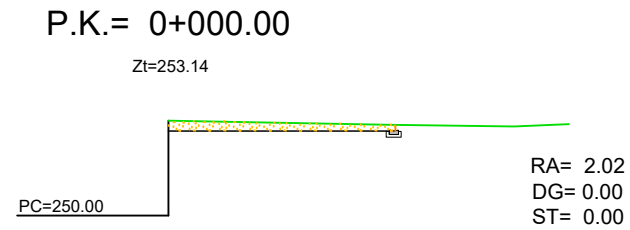
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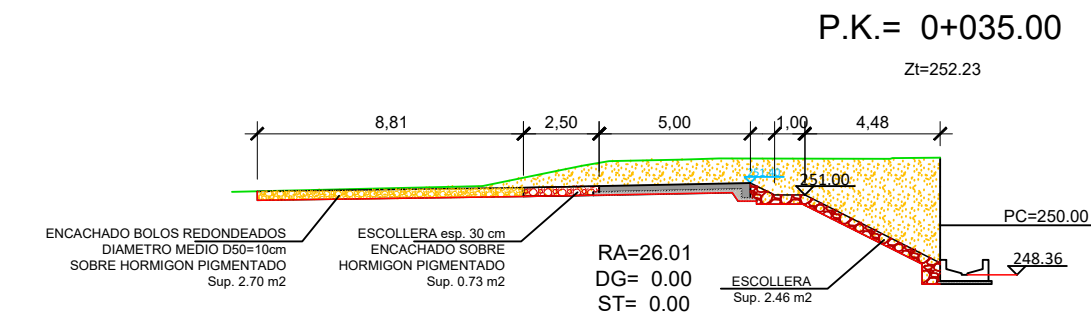
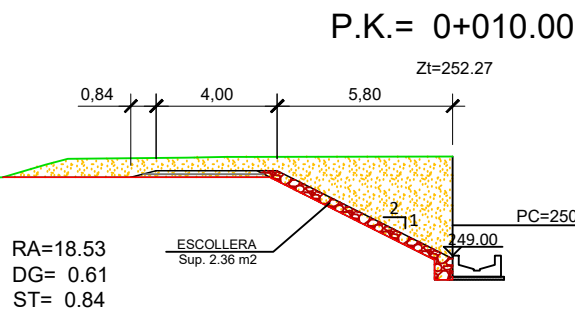
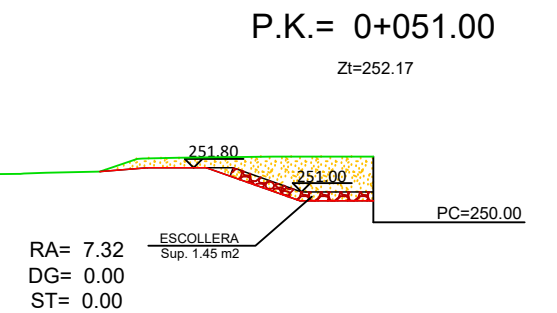
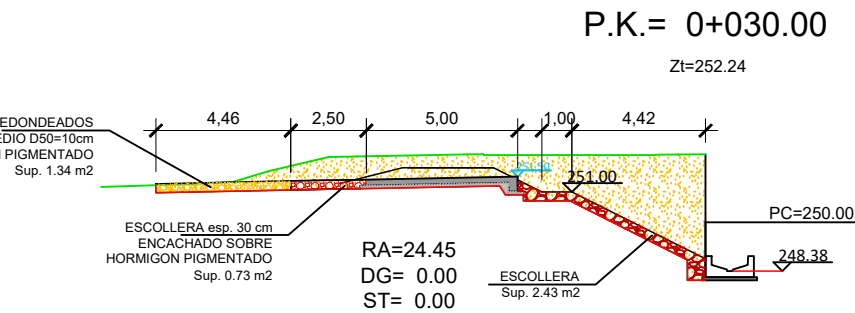
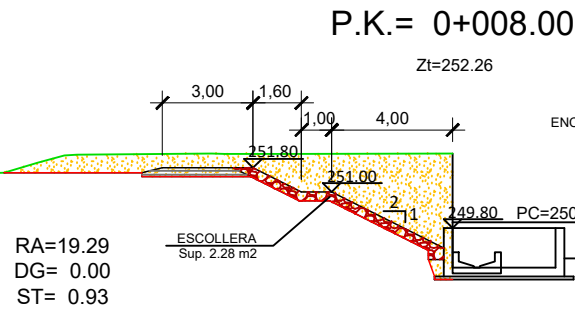
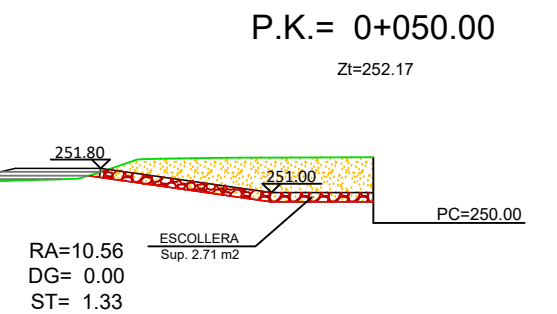
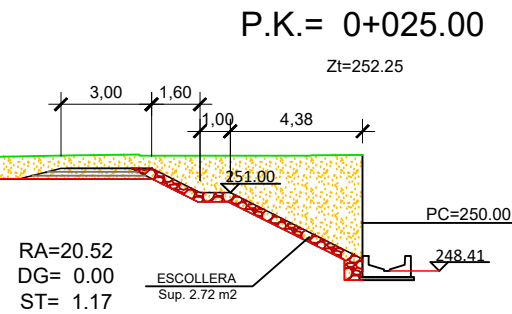
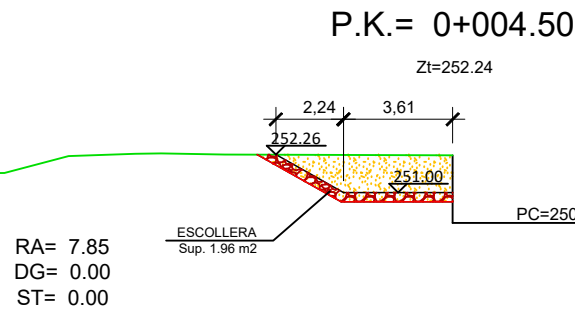
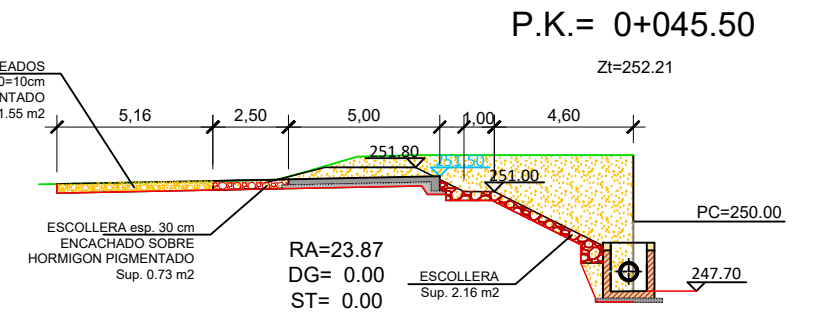
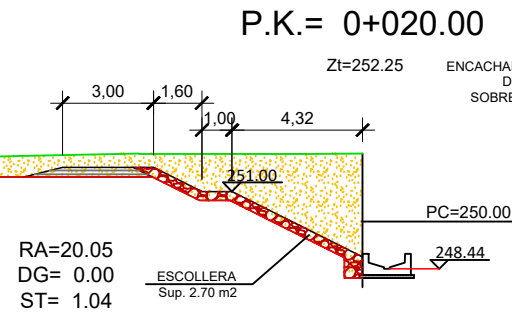
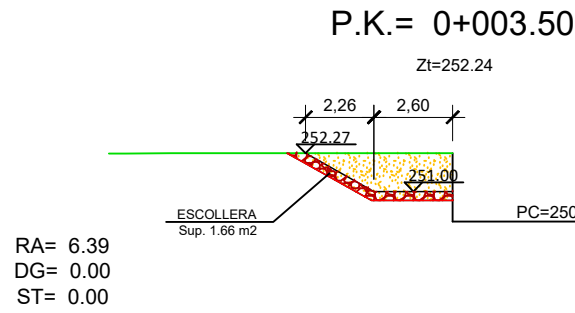


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ST SANEIO TERRENO (GLACIS)
ST EXPLANADA DE ZAHORRAS
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GRAVA REDONDEADAD 20/40mm
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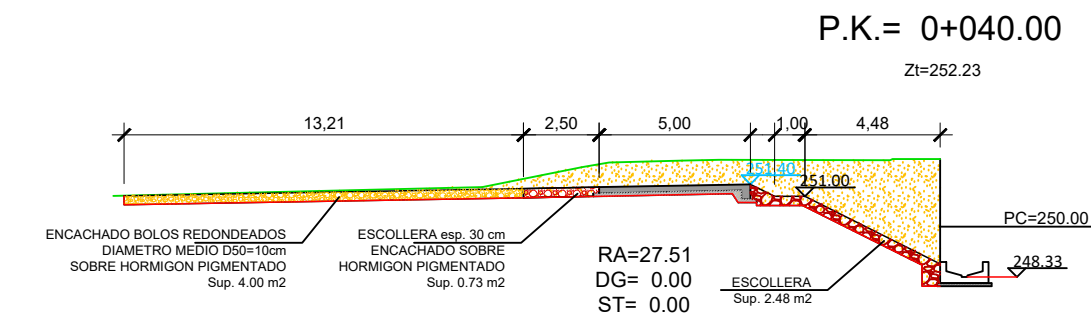
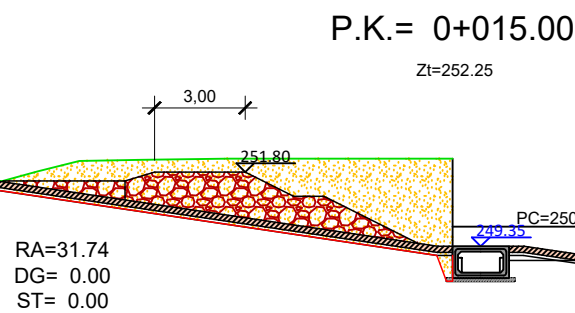


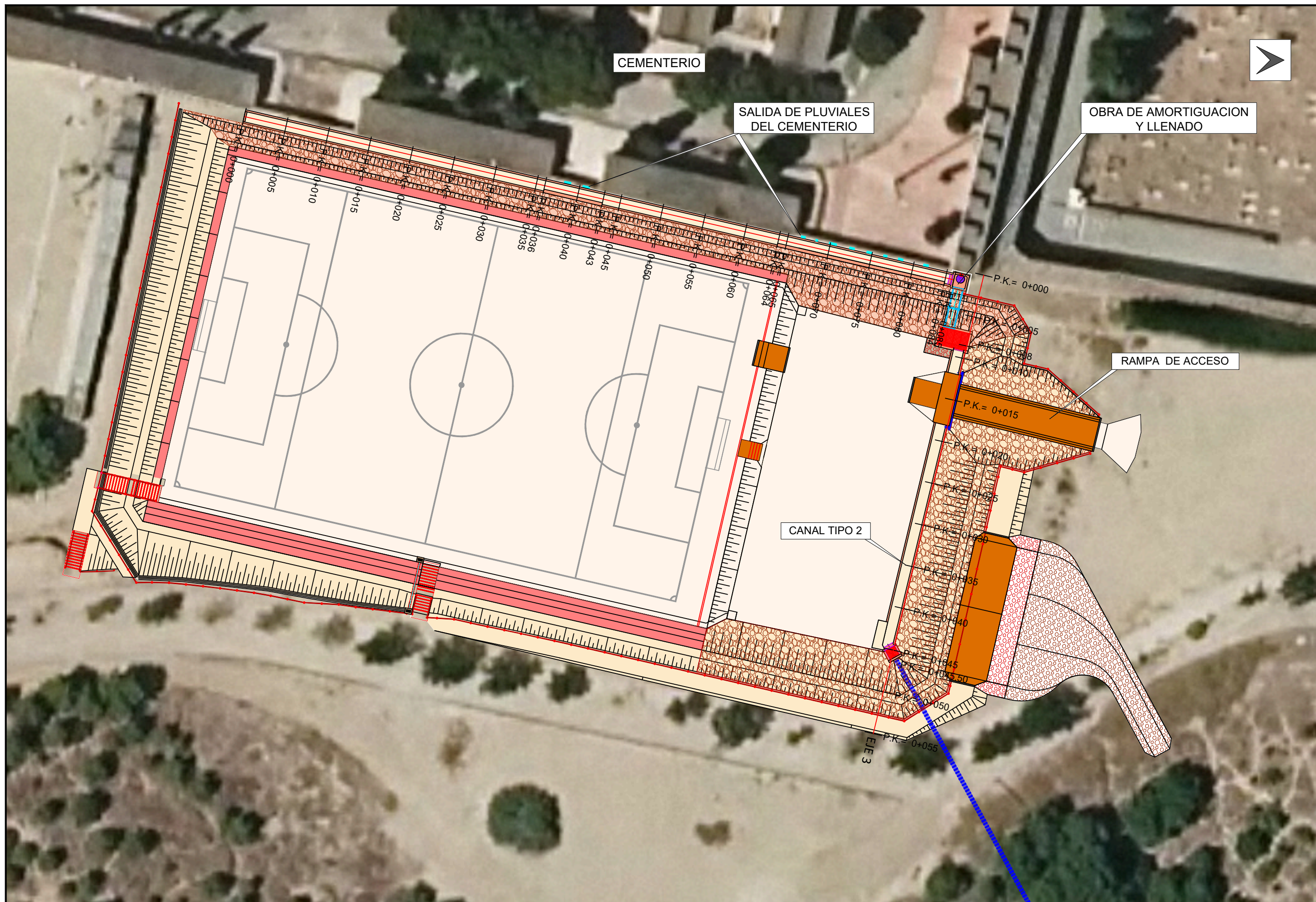
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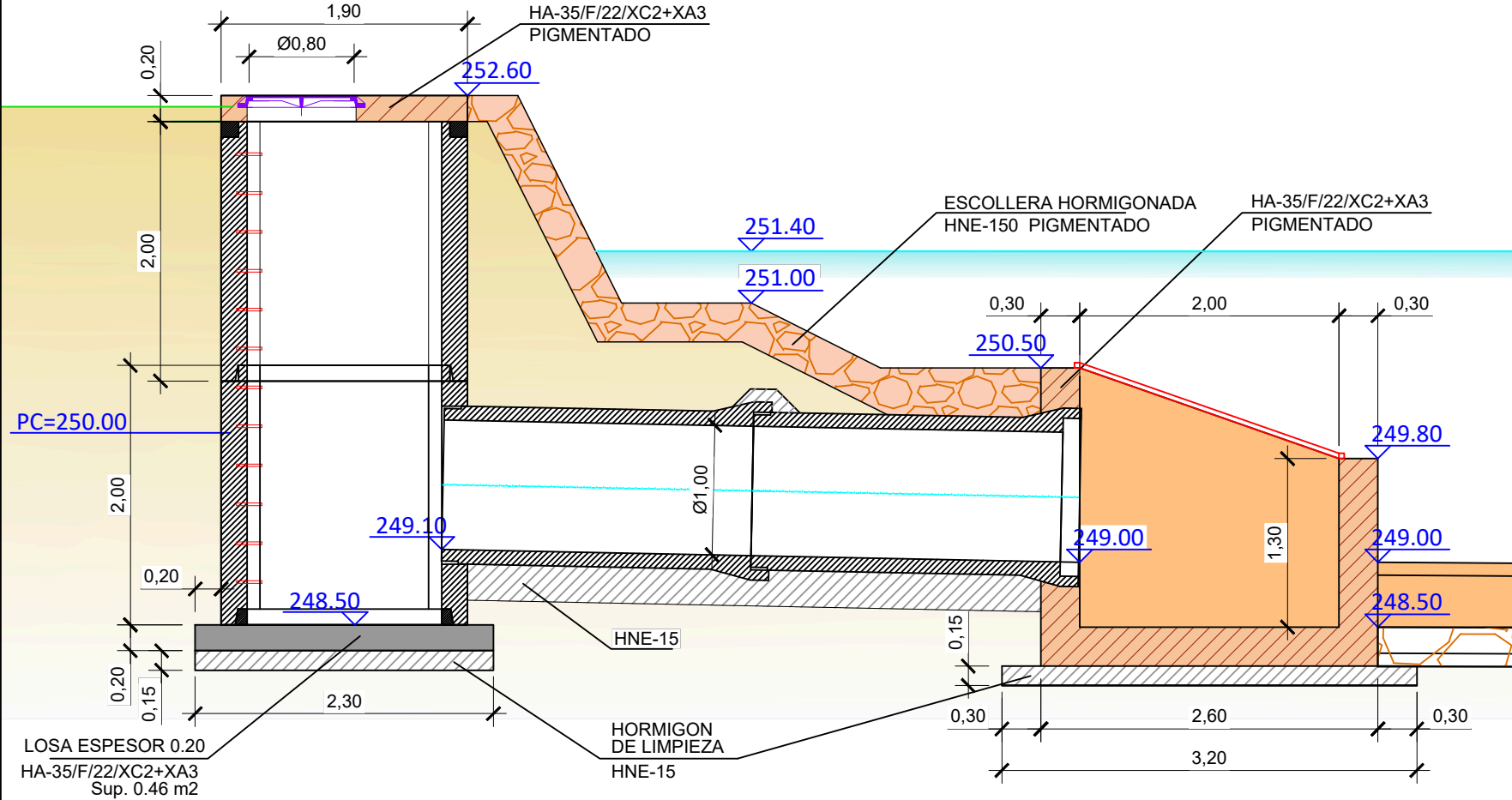


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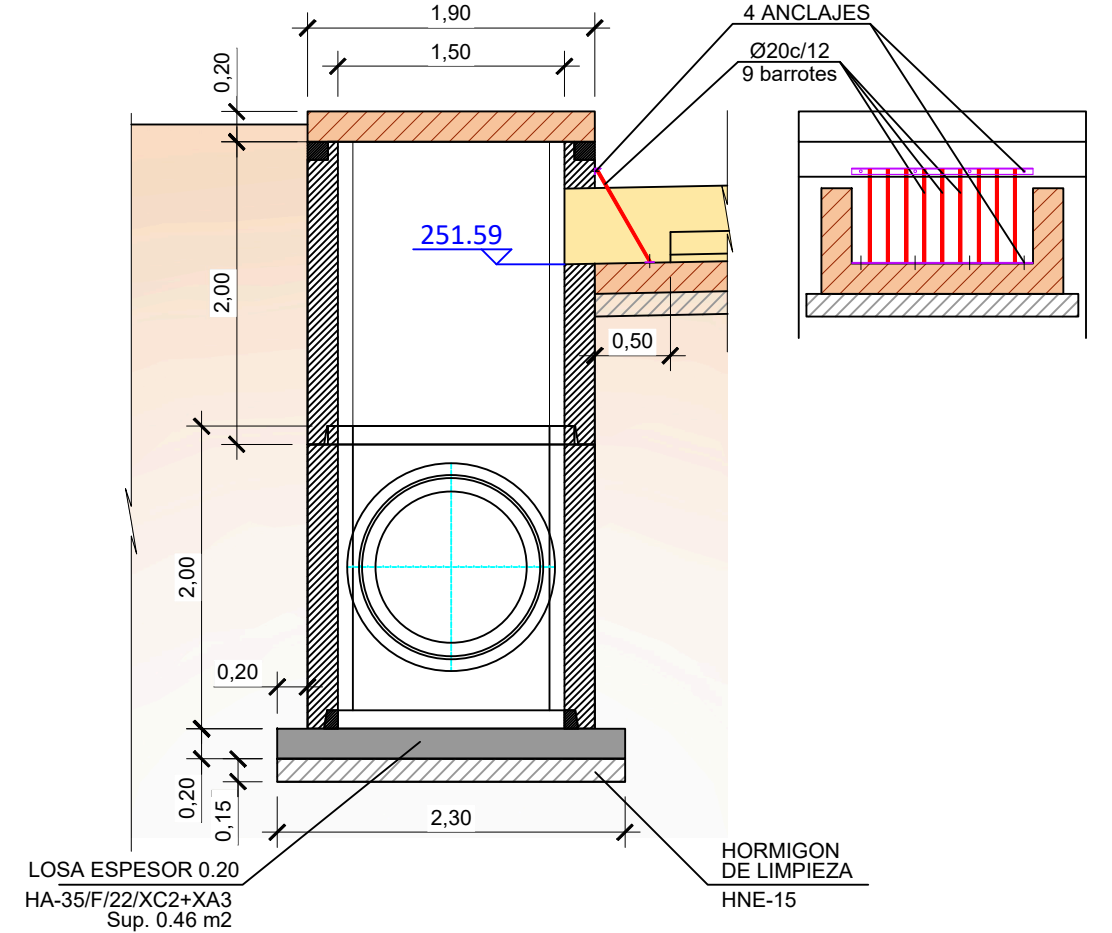




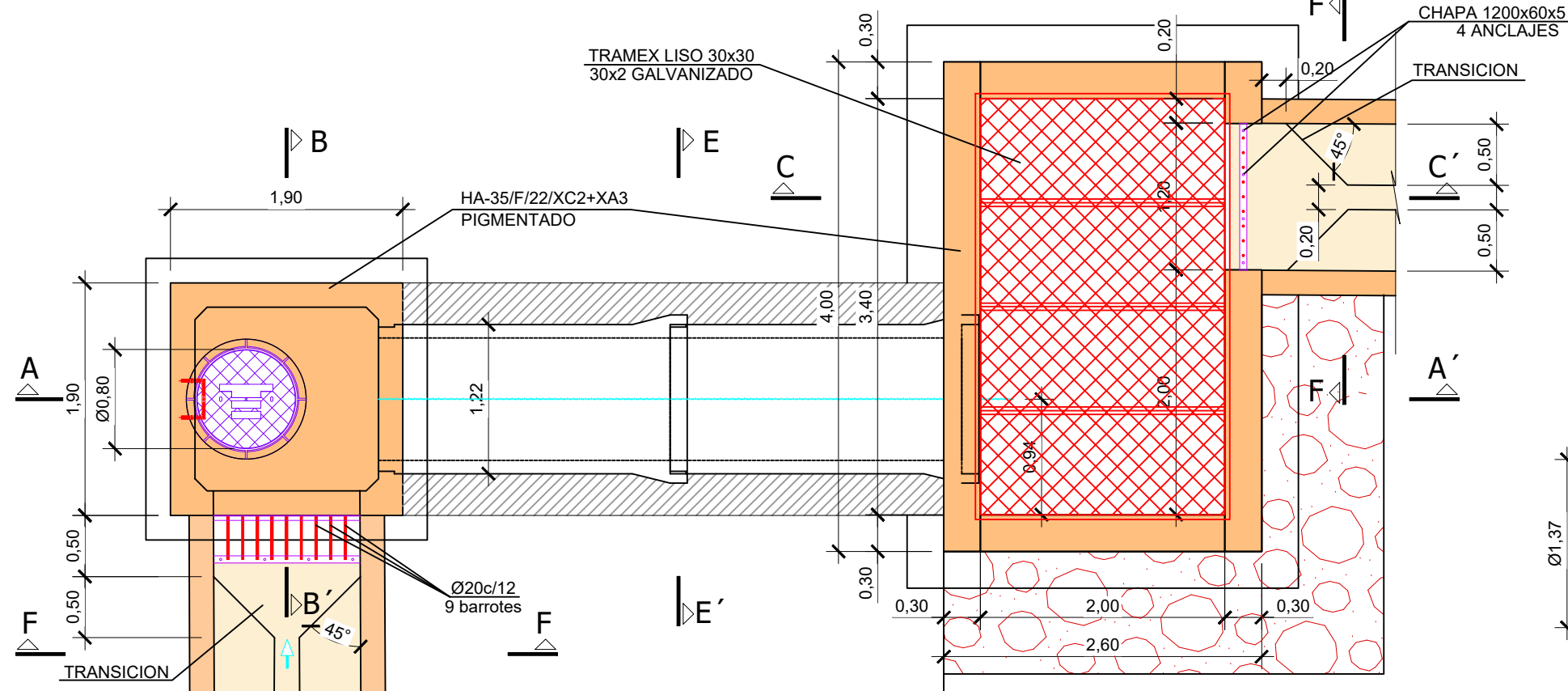
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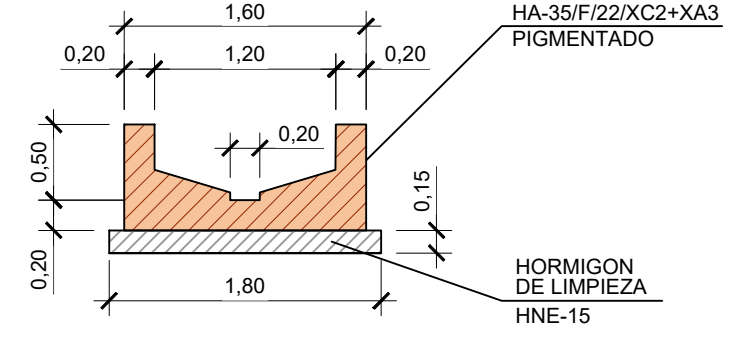
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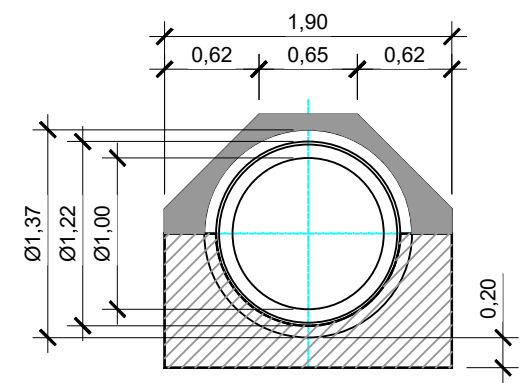
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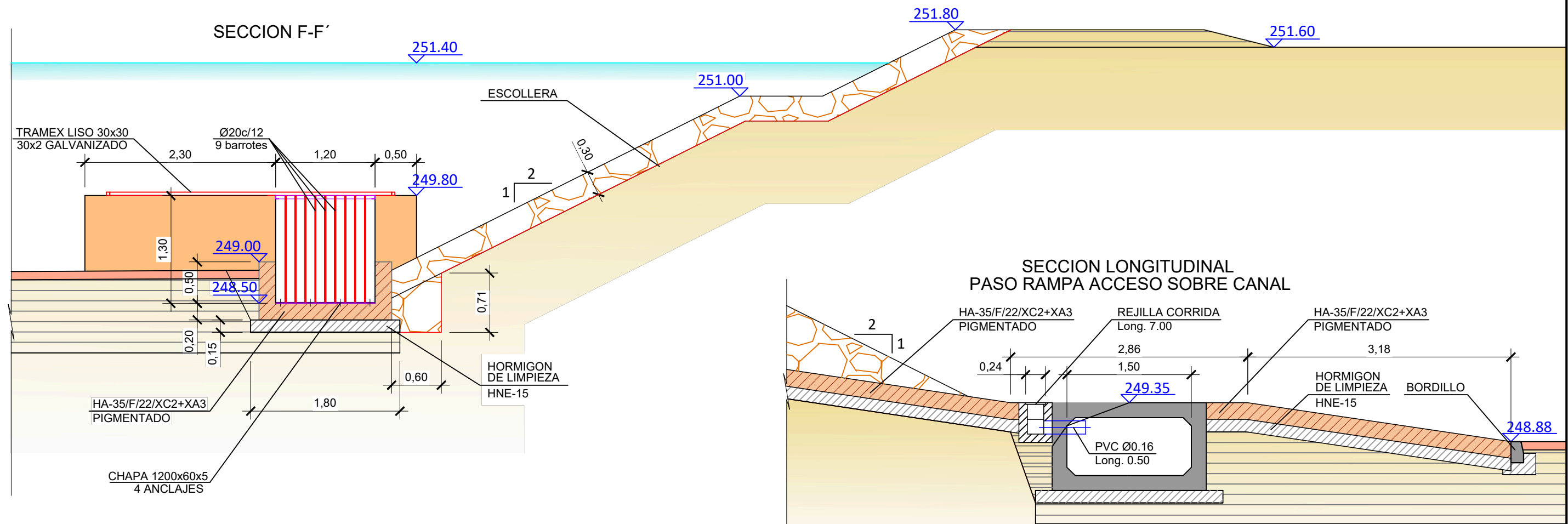
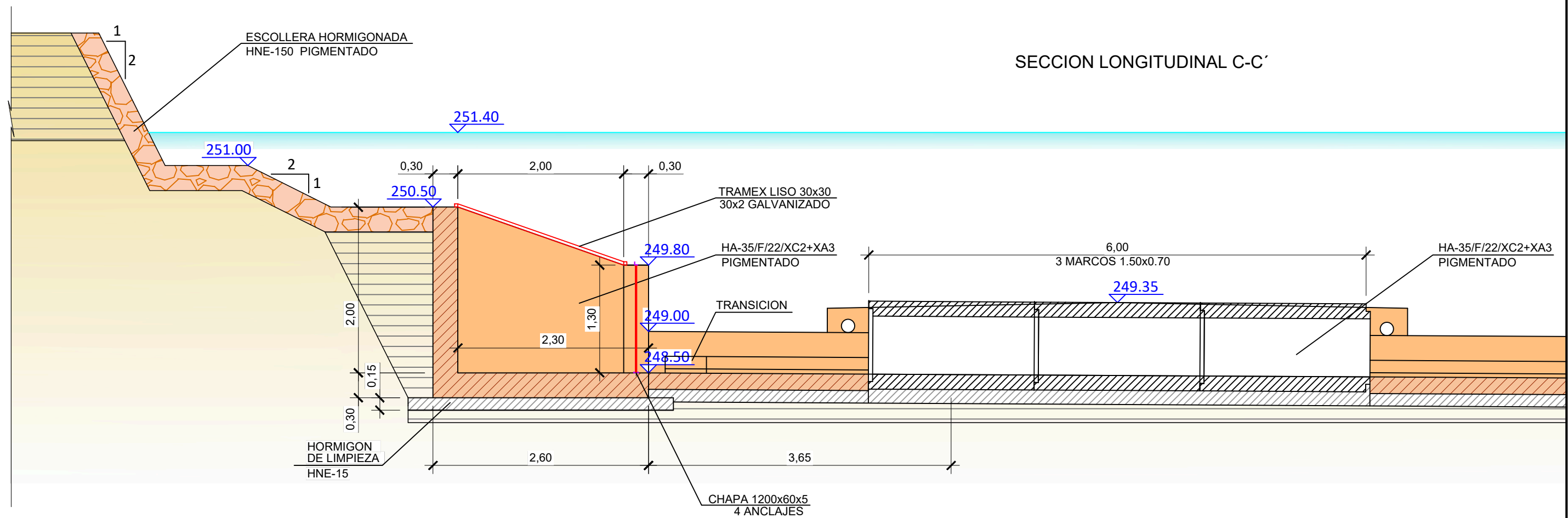


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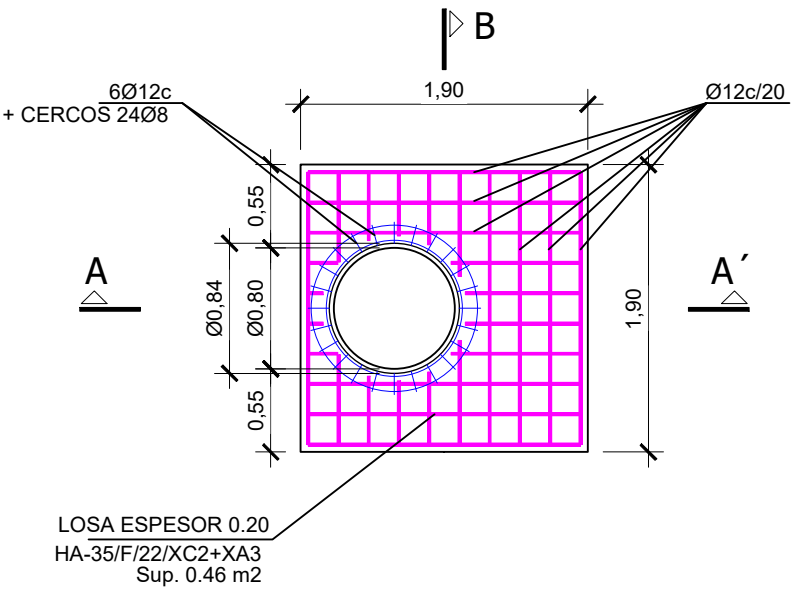


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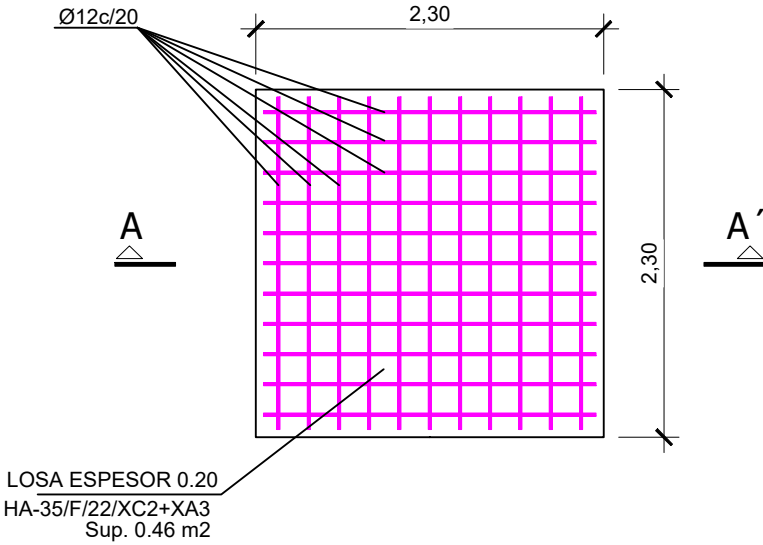




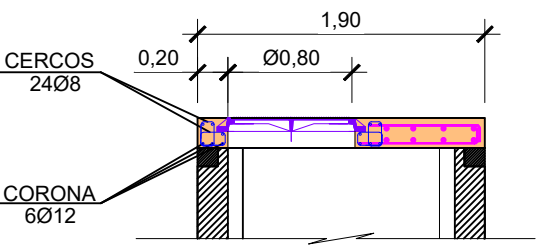
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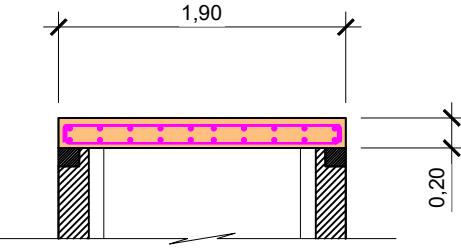
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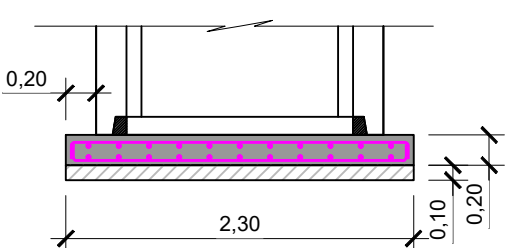
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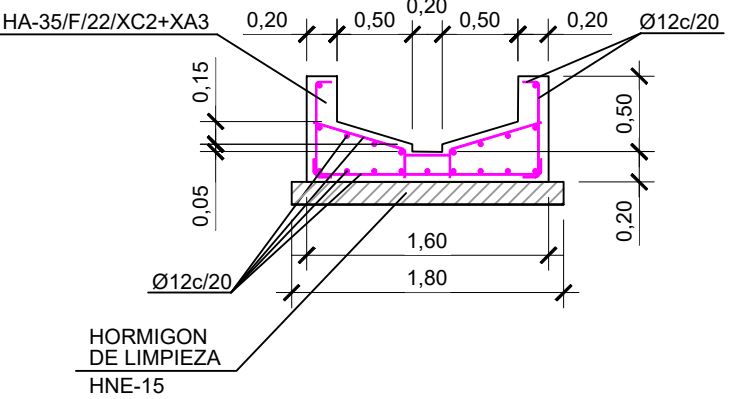
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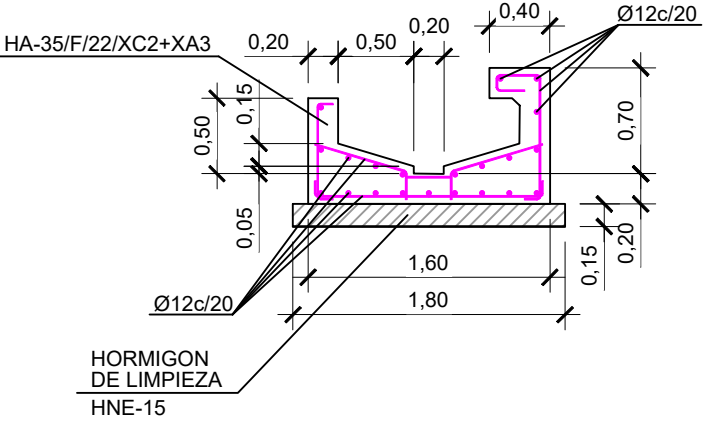
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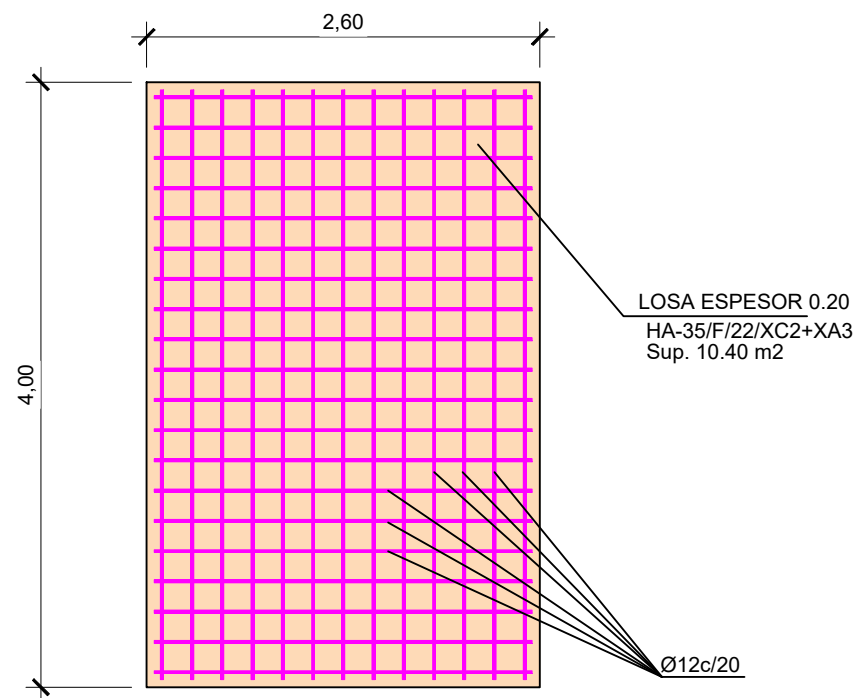
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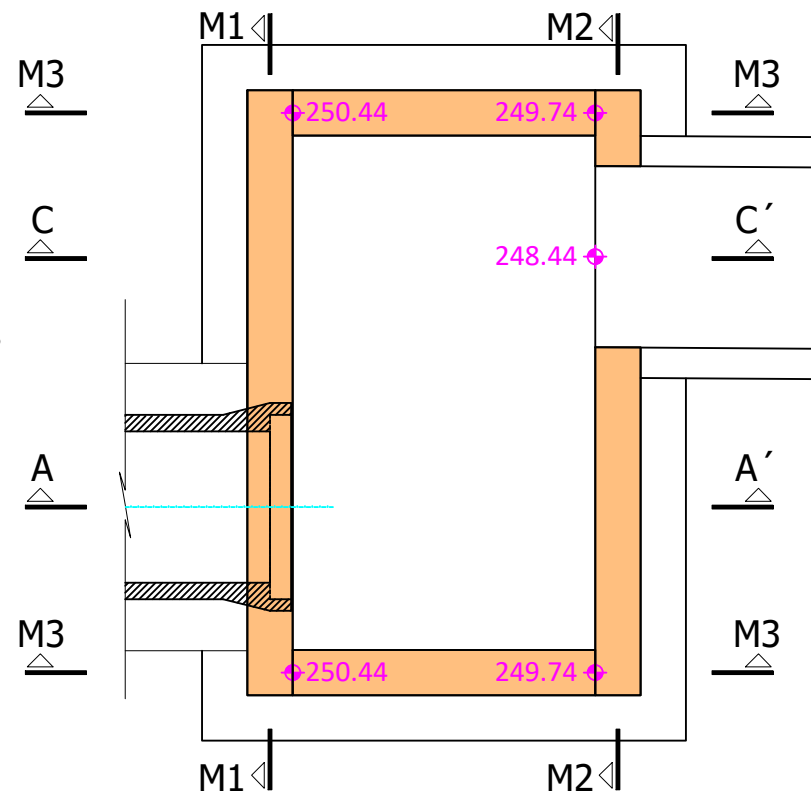
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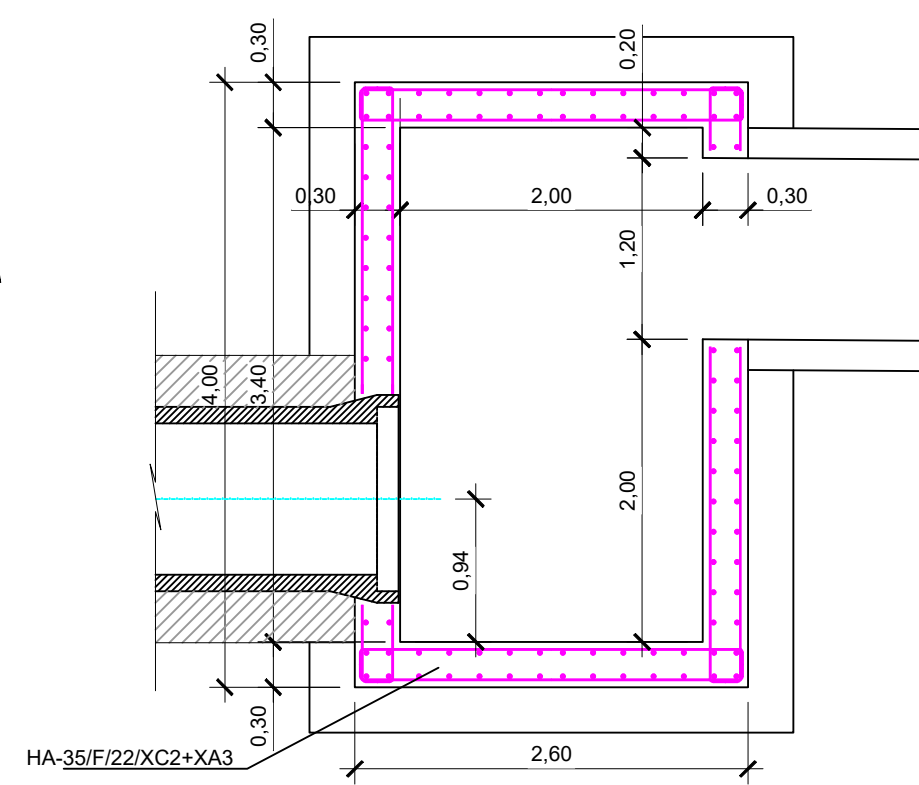
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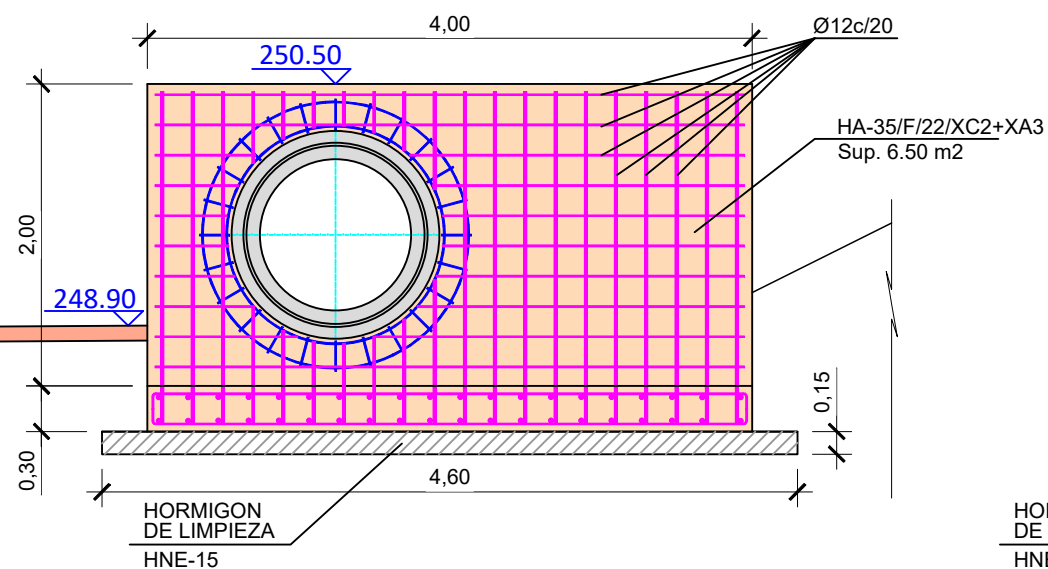
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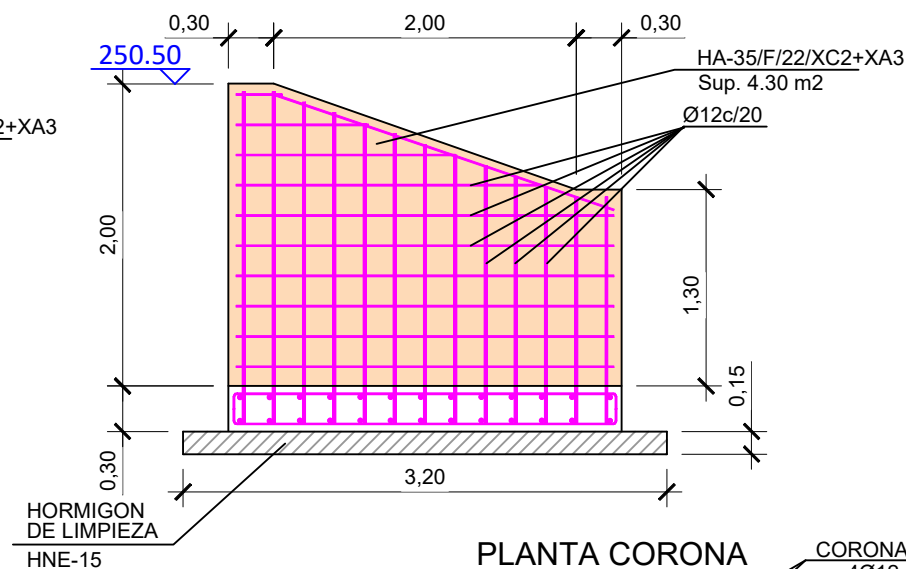
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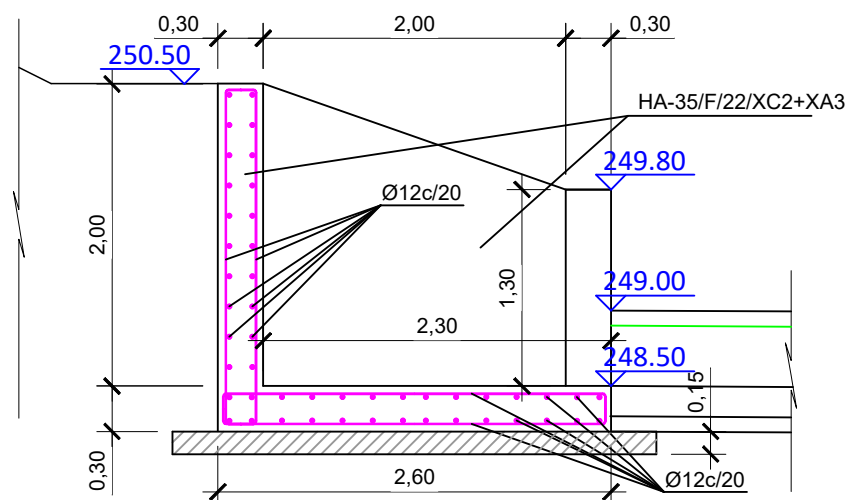
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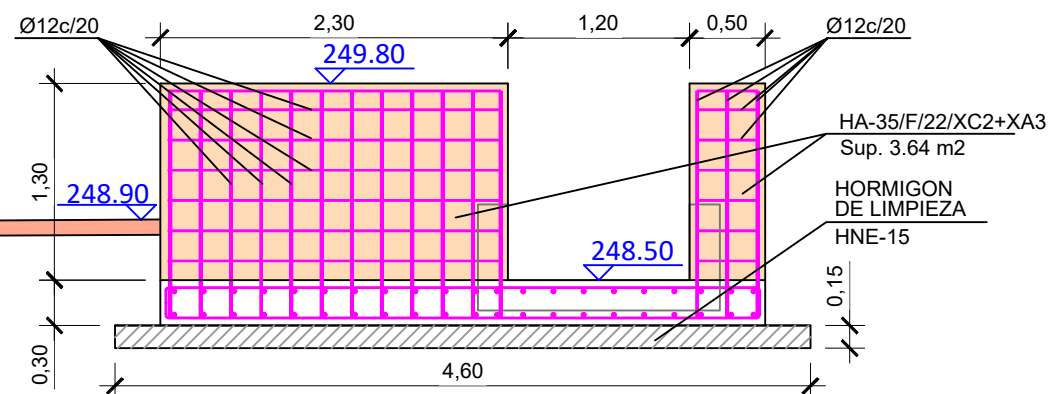
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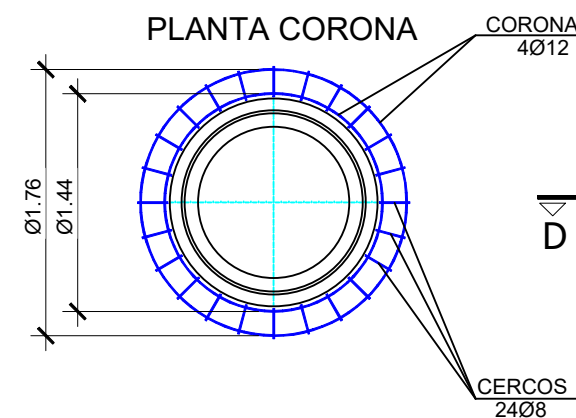
SECCION C-C'



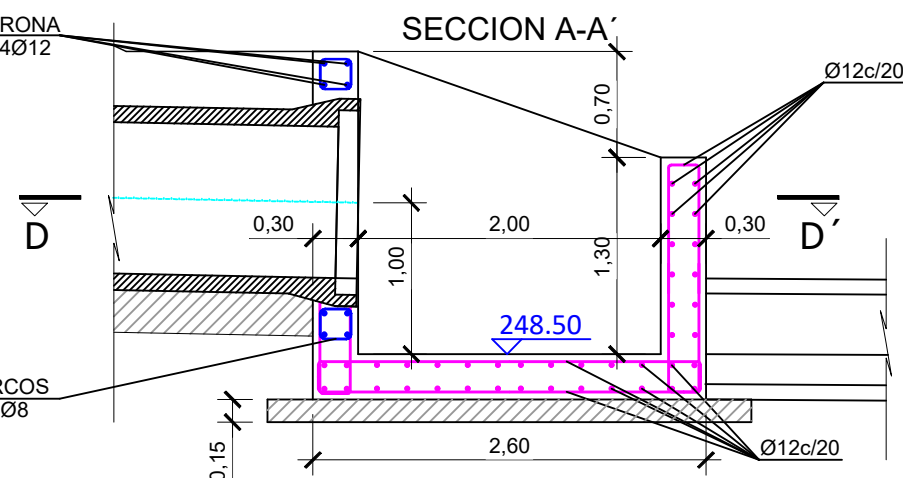
MURO M-2



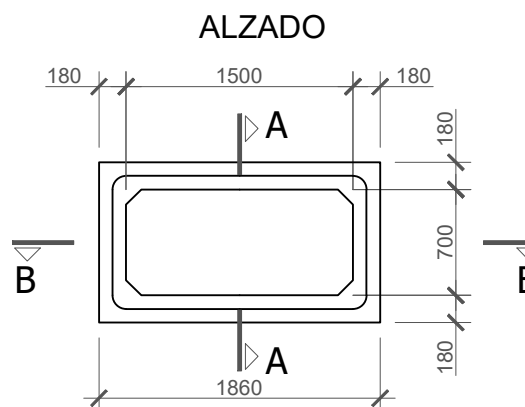
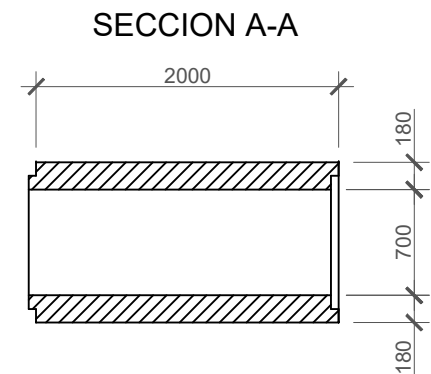
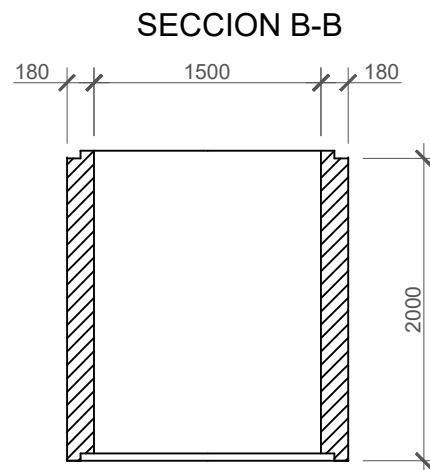
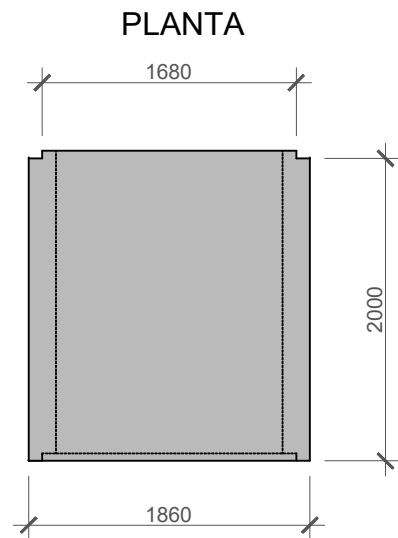
PLANTA CORONA



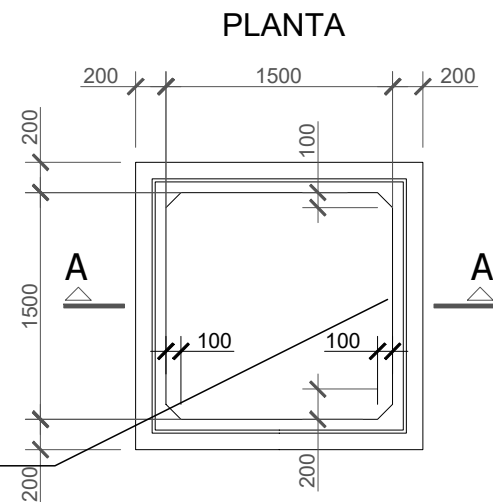
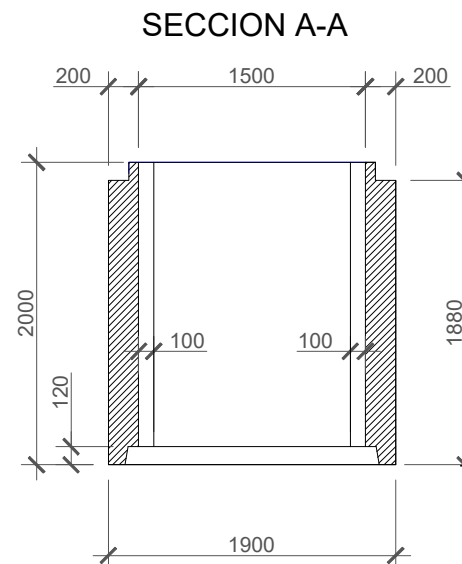
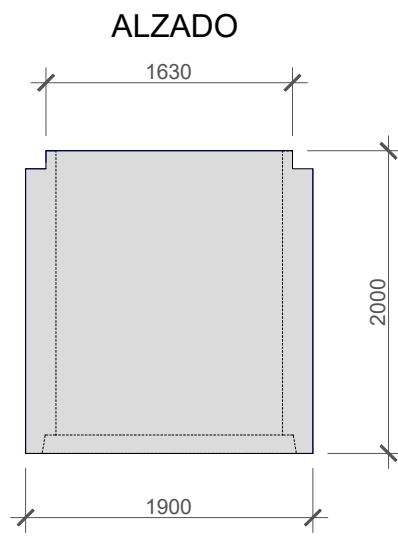
SECCION A-A'



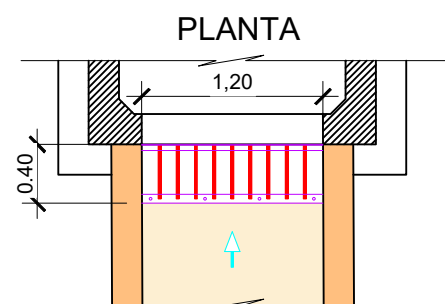
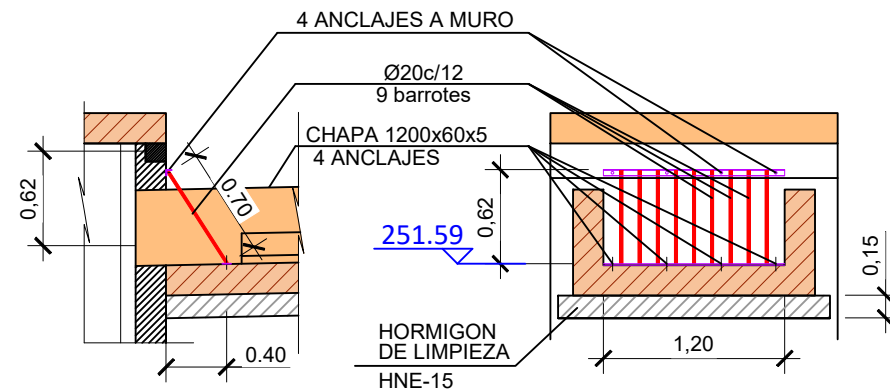
MARCO 1.50x0.70x2.00



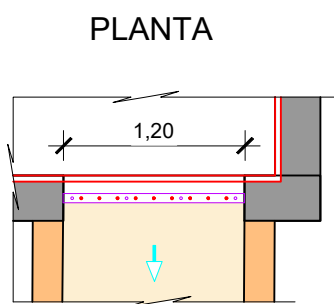
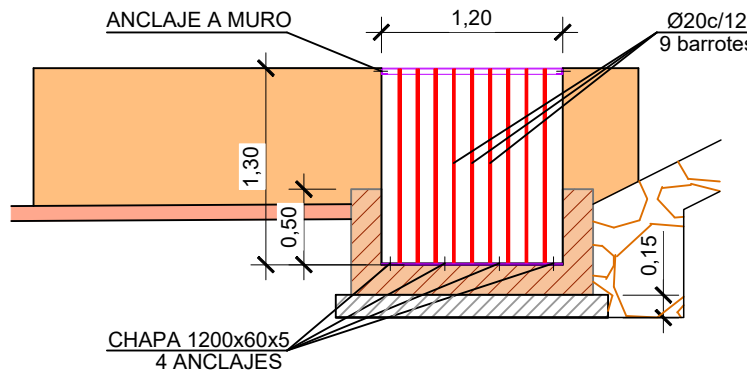
MARCO 1.50x1.50x2.00



REJA CANAL SUPERIOR
SECCION ALZADO

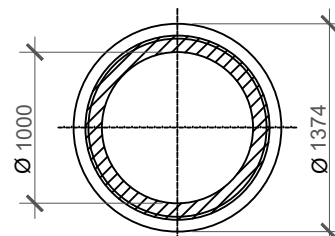


REJA CANAL INFERIOR
SECCION ALZADO

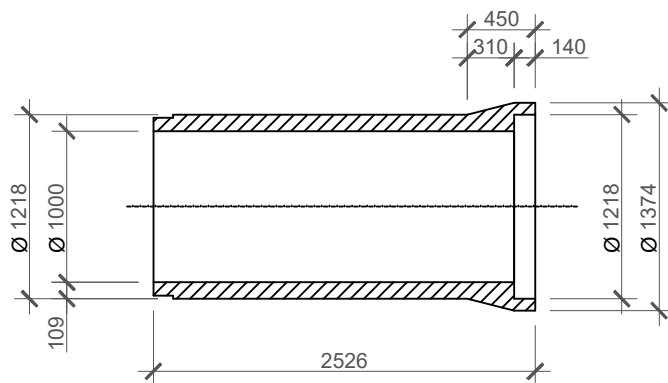


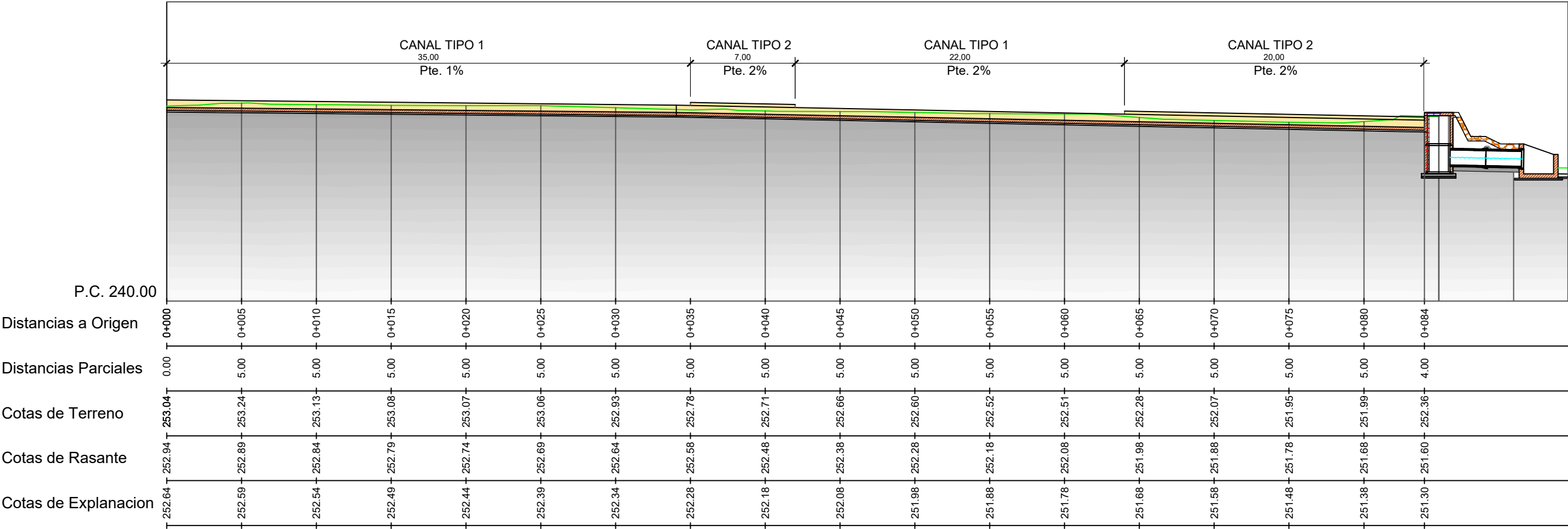
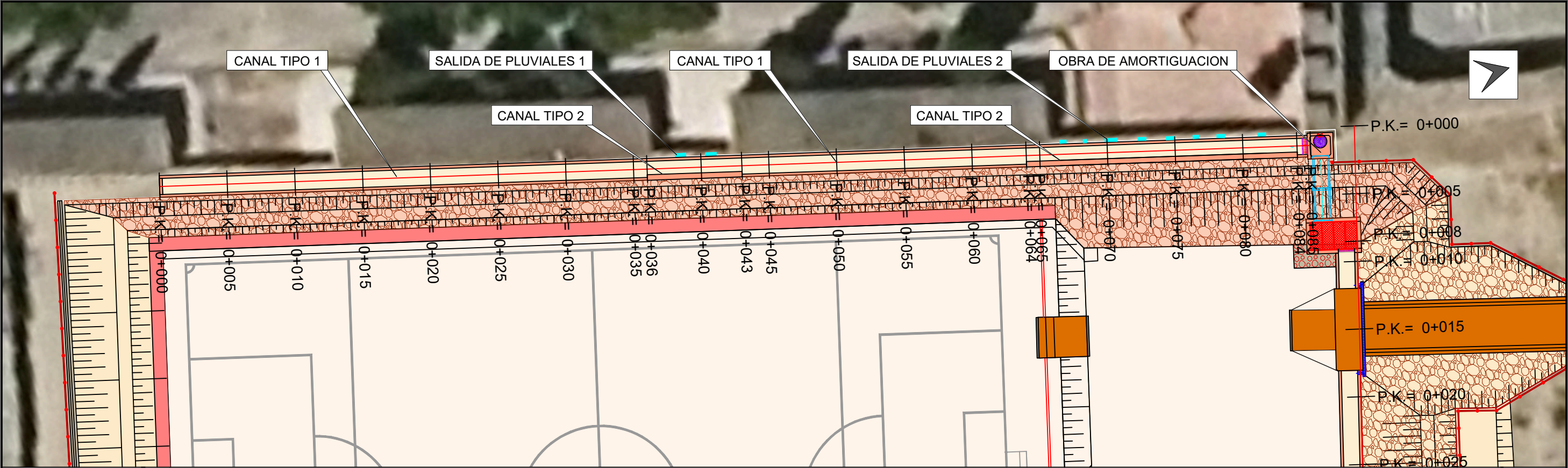
TUBERIA CAMPANA HA HRF DN 1000

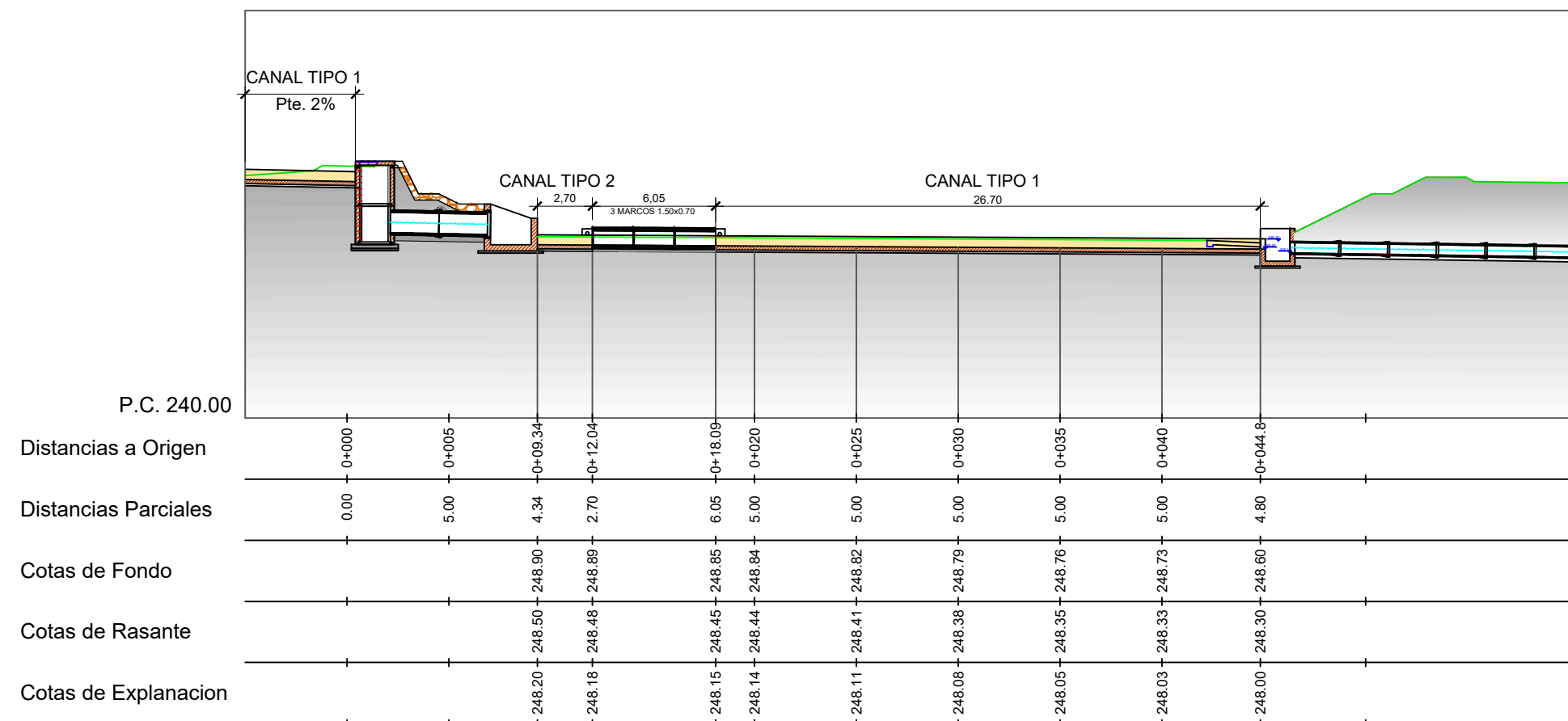
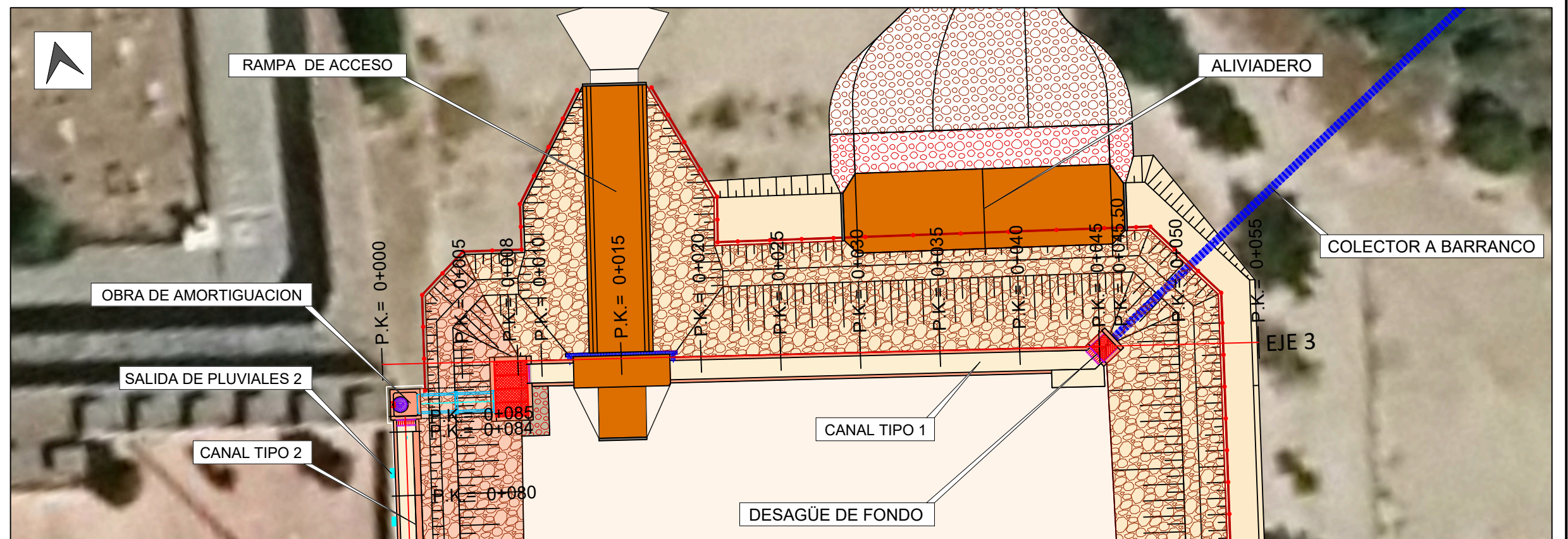
SECCION TRANSVERSAL

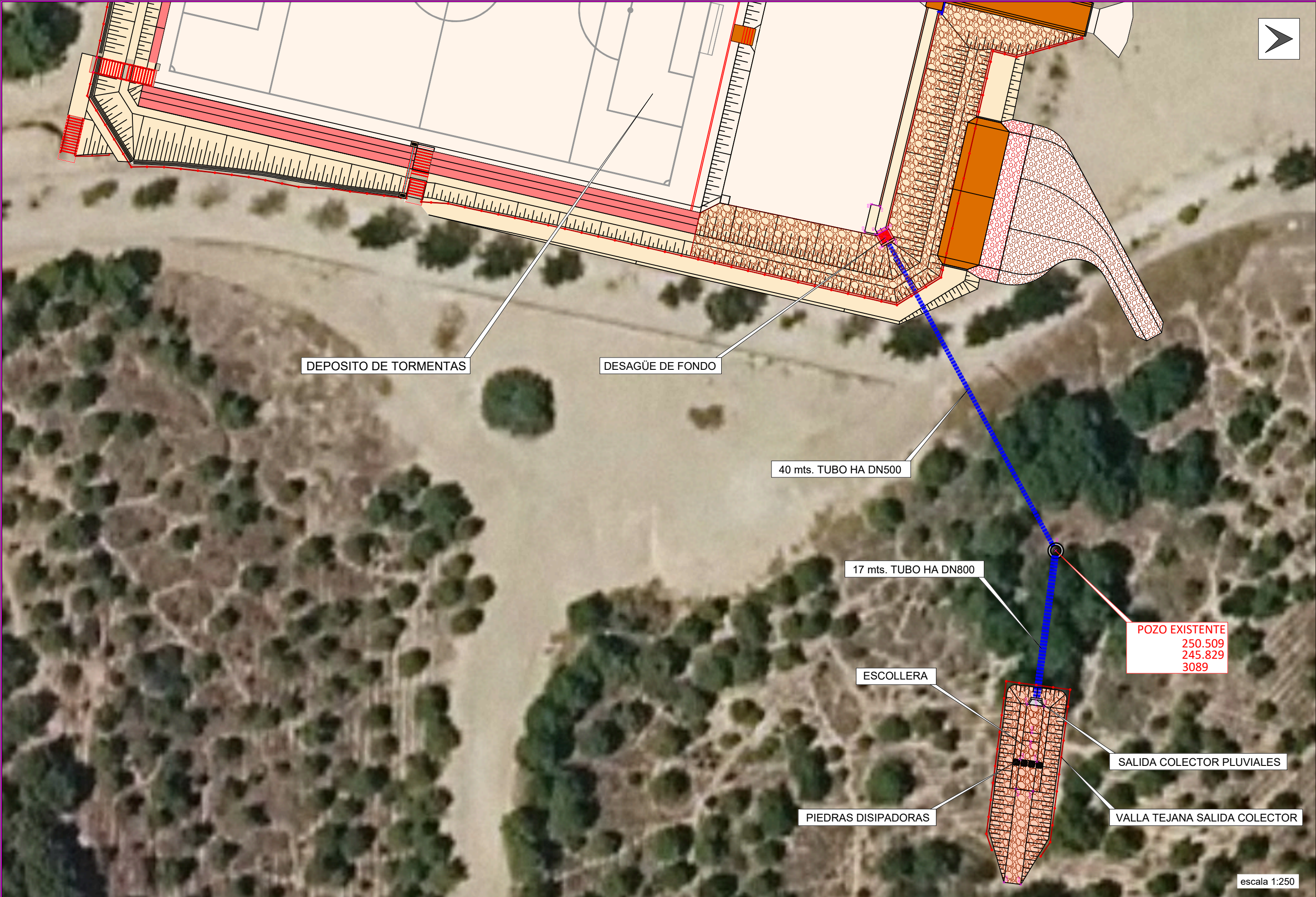


SECCION LONGITUDINAL

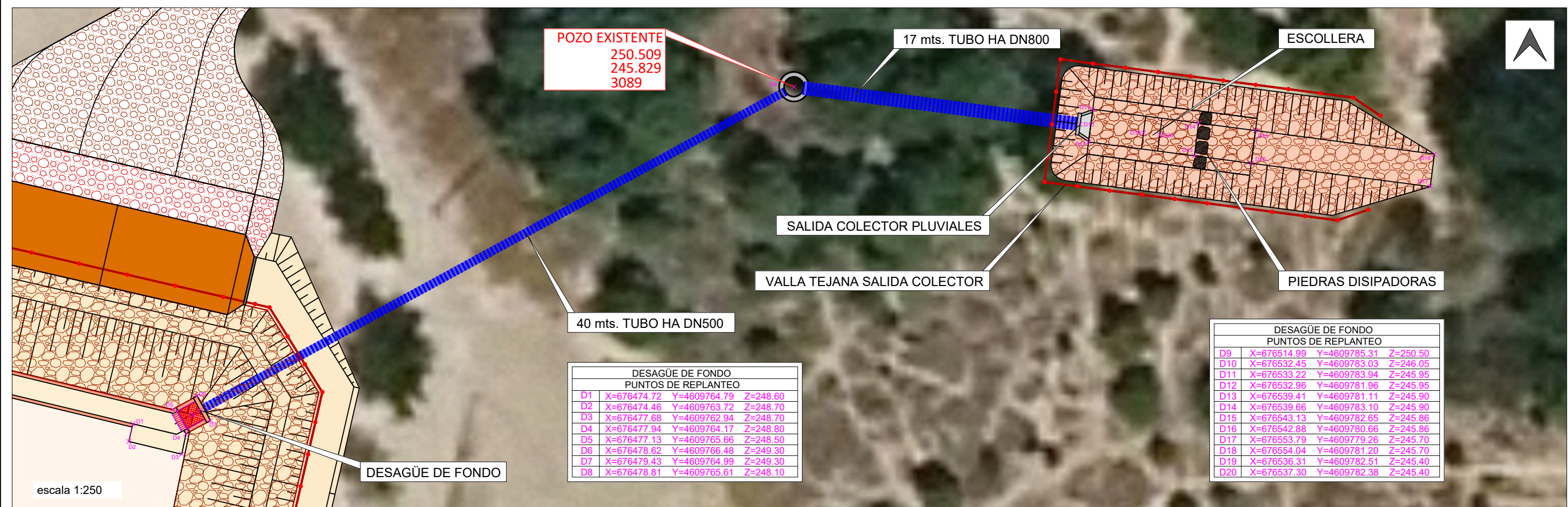




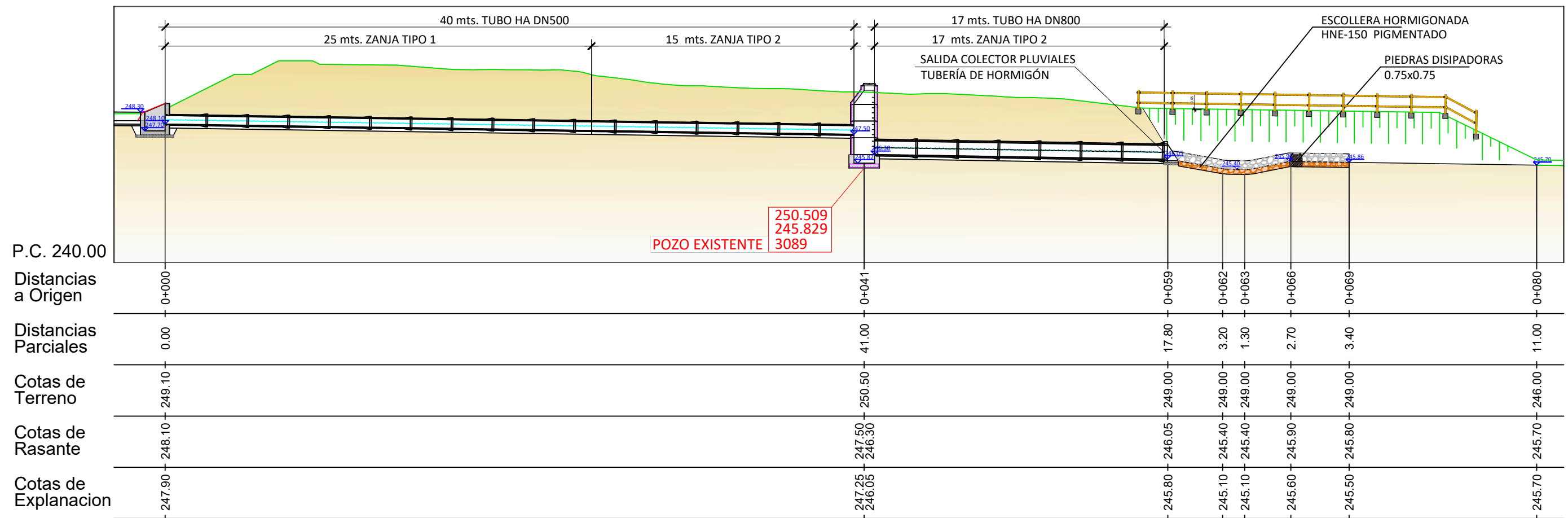


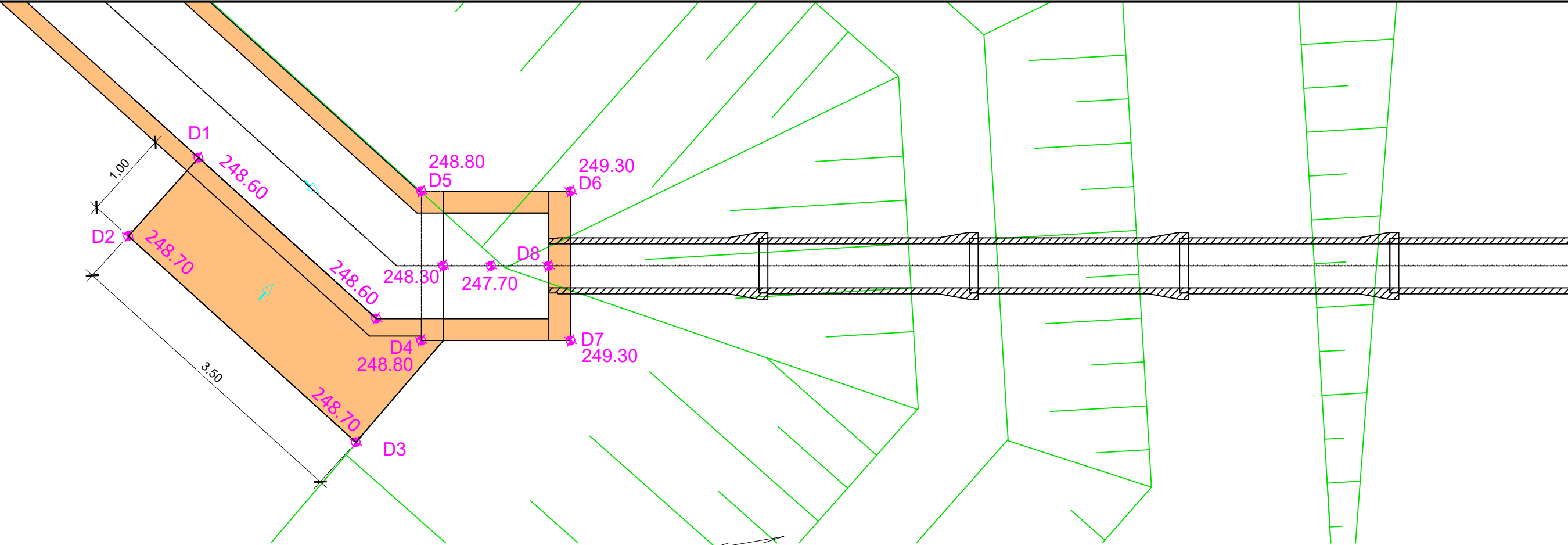


escala 1:250

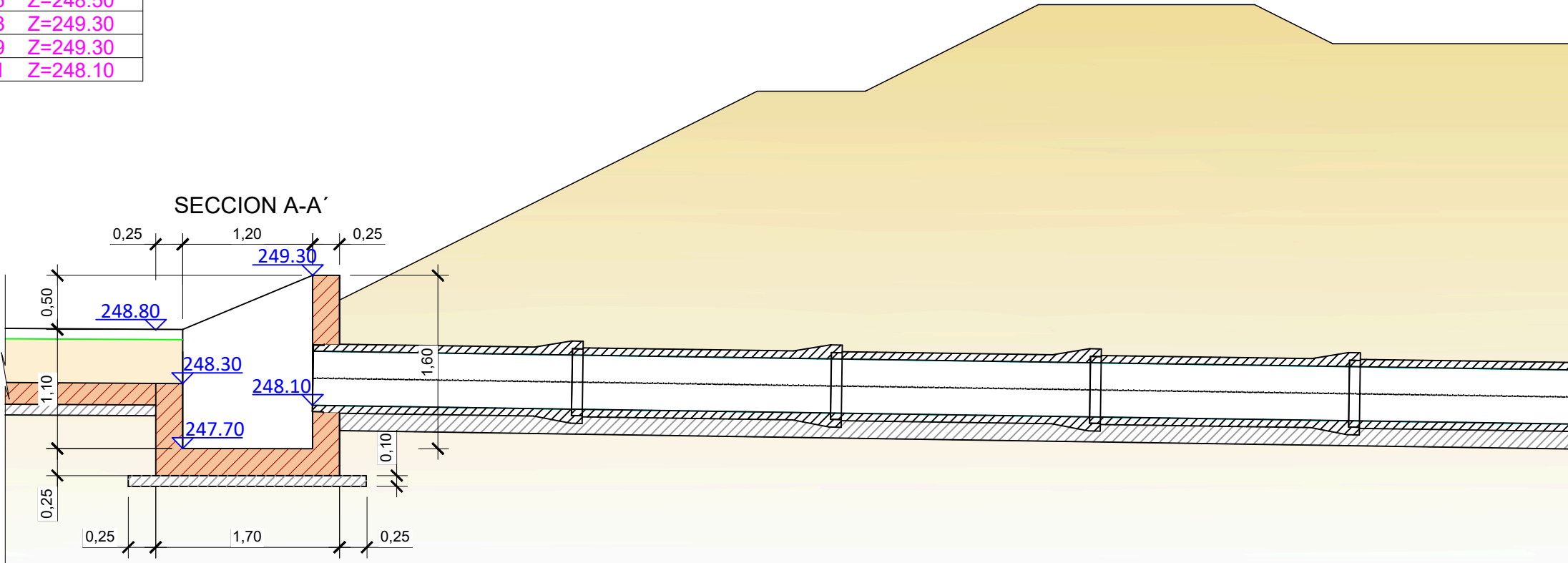


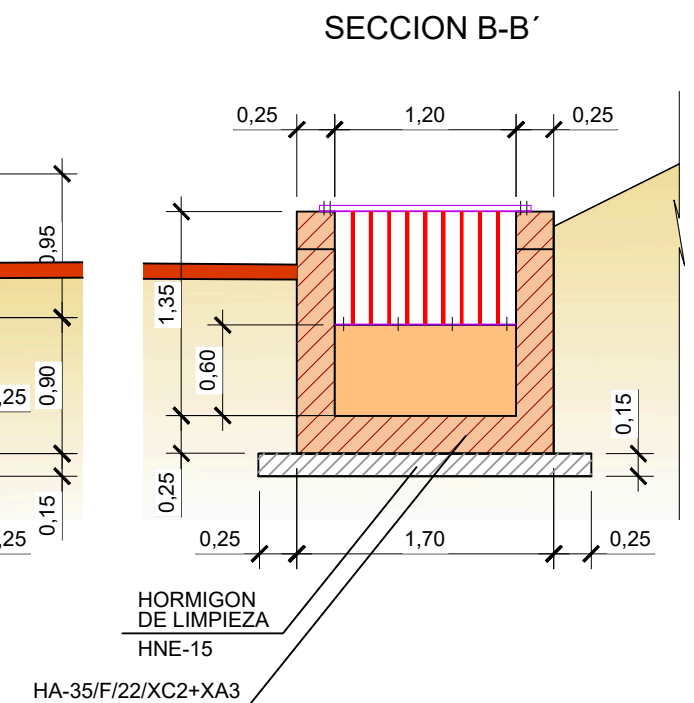
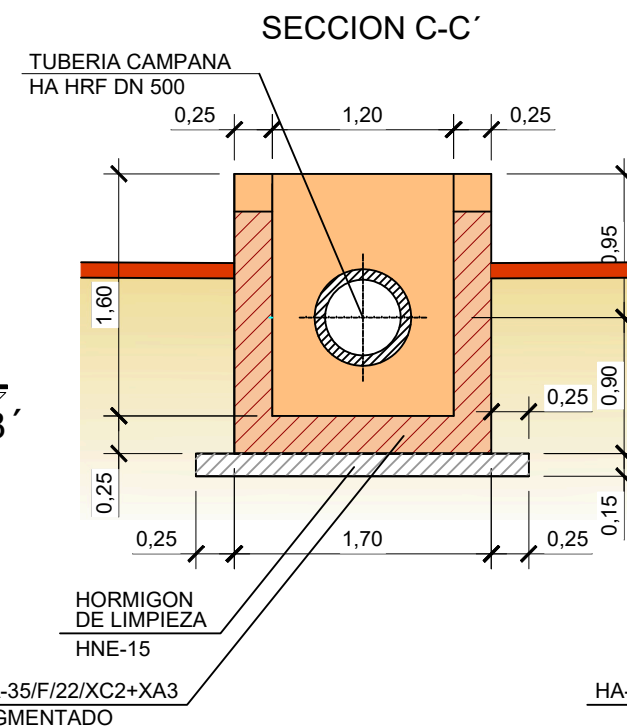
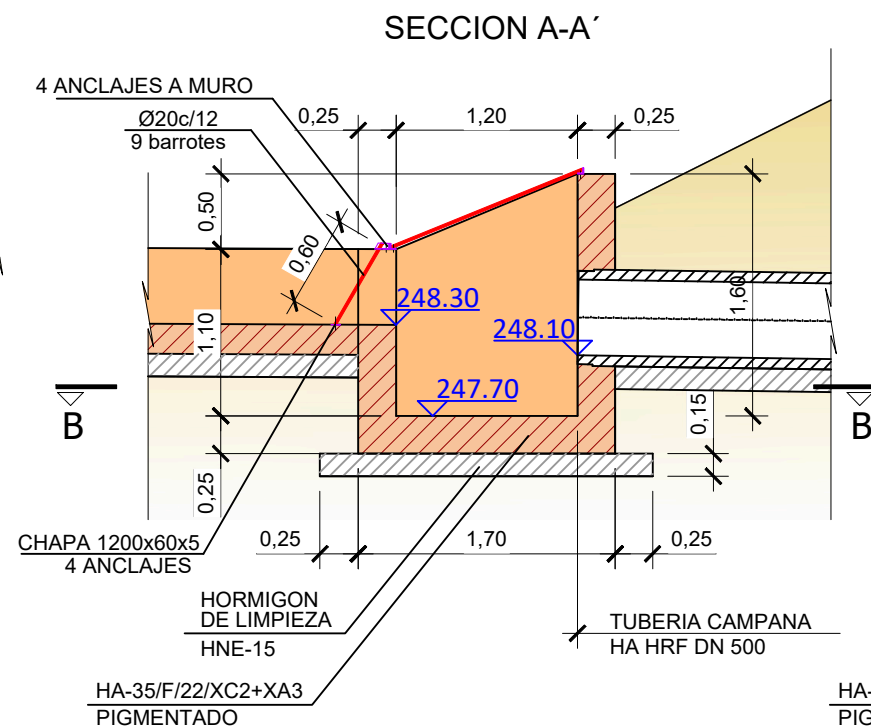
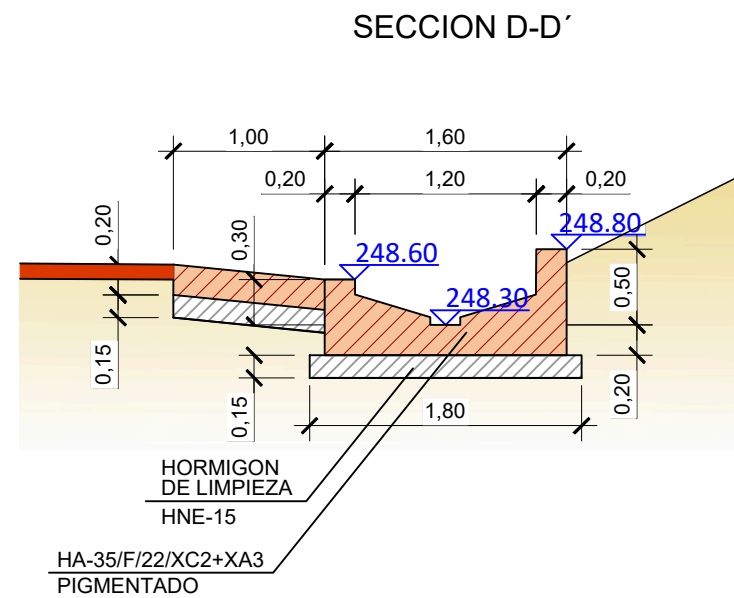
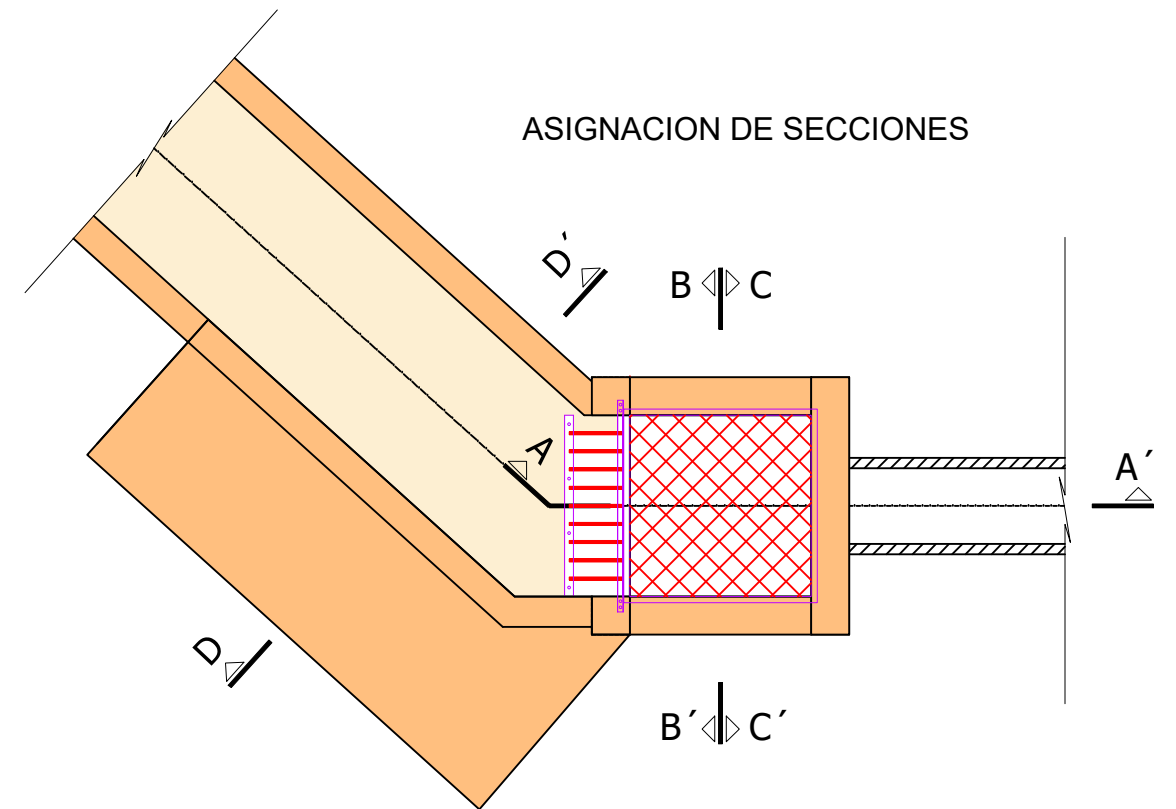
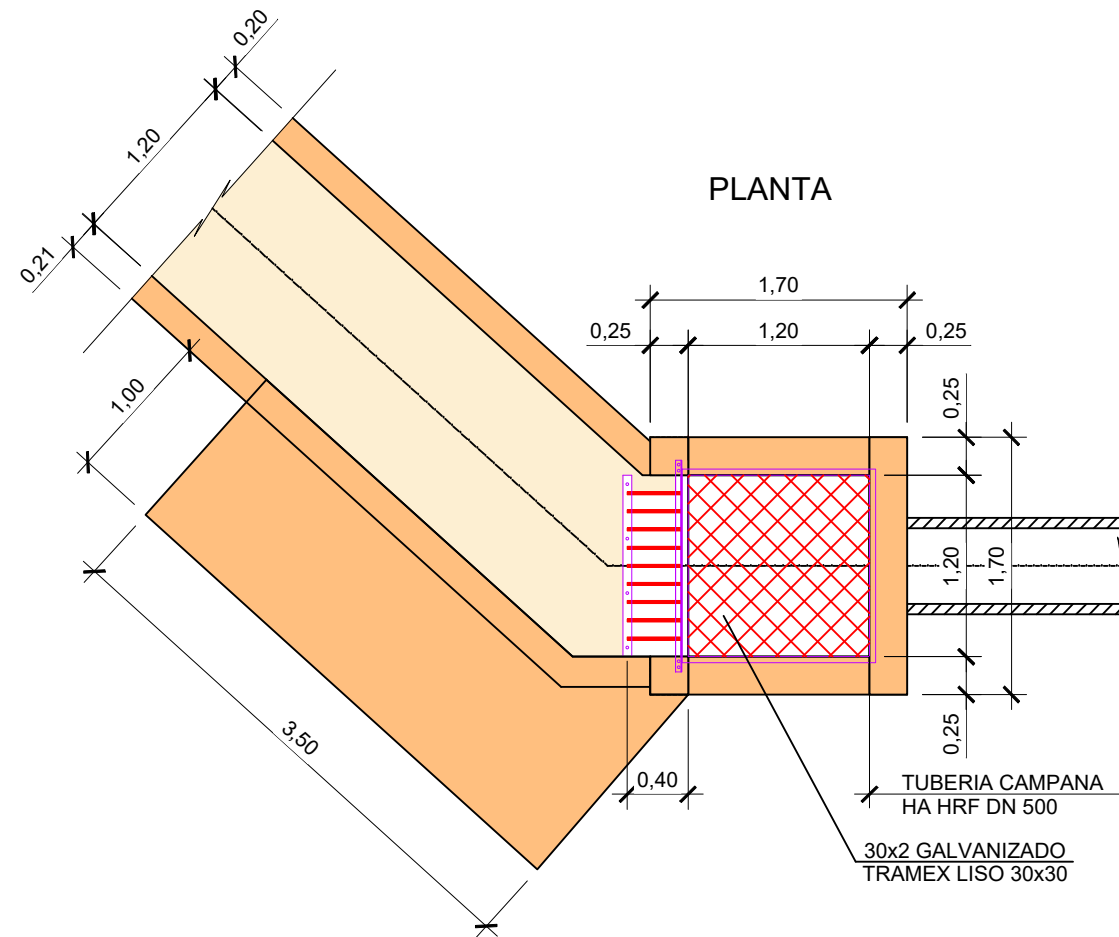
PERFIL LONGITUDINAL

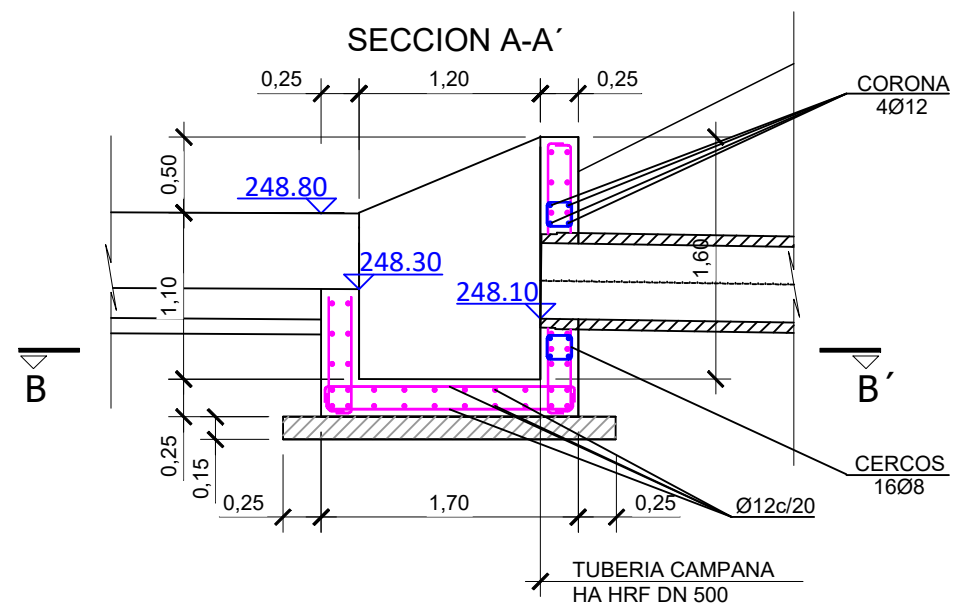
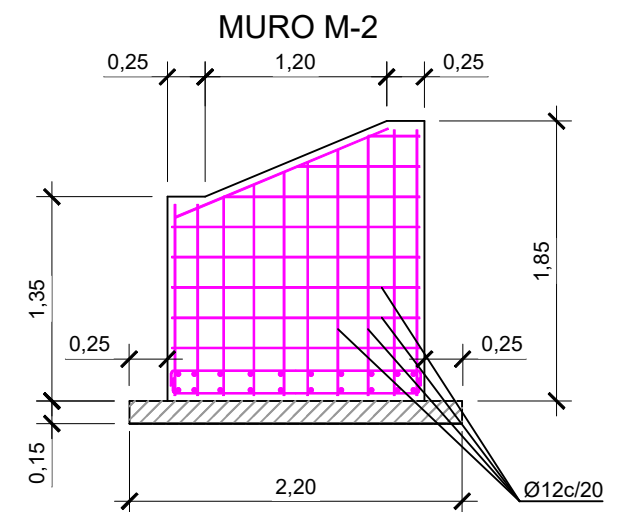
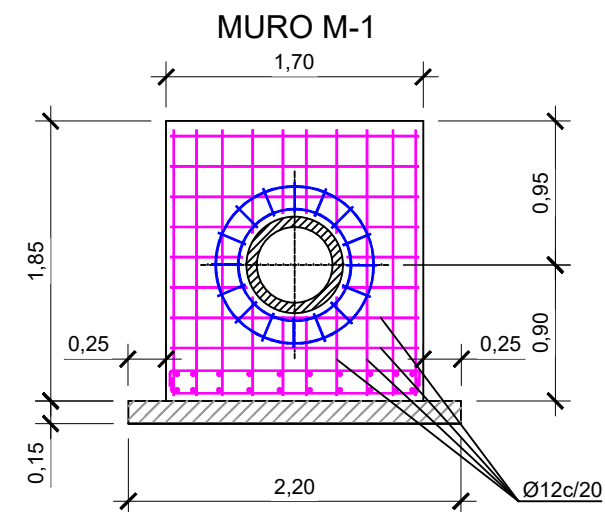
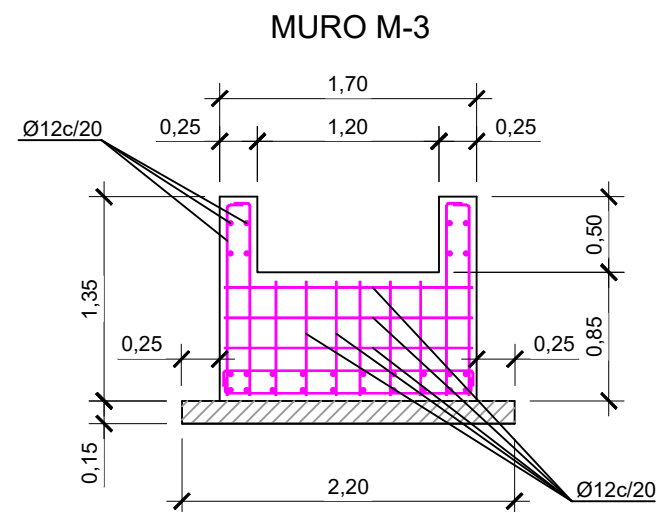




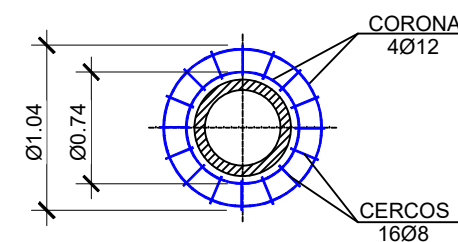
DESAGÜE DE FONDO			
PUNTOS DE REPLANTEO			
D1	X=676474.72	Y=4609764.79	Z=248.60
D2	X=676474.46	Y=4609763.72	Z=248.70
D3	X=676477.68	Y=4609762.94	Z=248.70
D4	X=676477.94	Y=4609764.17	Z=248.80
D5	X=676477.13	Y=4609765.66	Z=248.50
D6	X=676478.62	Y=4609766.48	Z=249.30
D7	X=676479.43	Y=4609764.99	Z=249.30
D8	X=676478.81	Y=4609765.61	Z=248.10



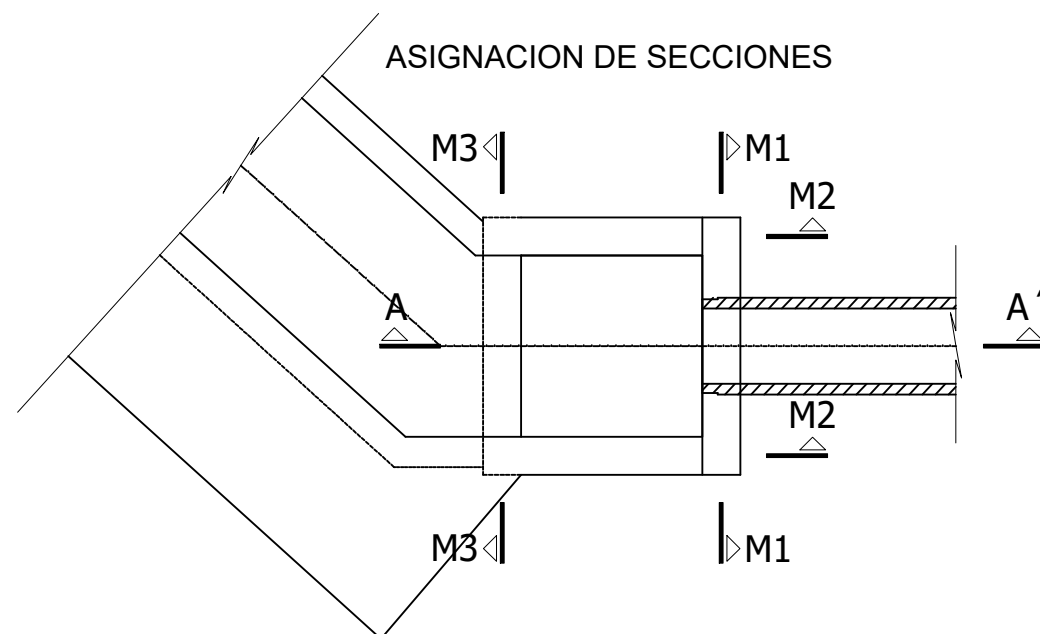




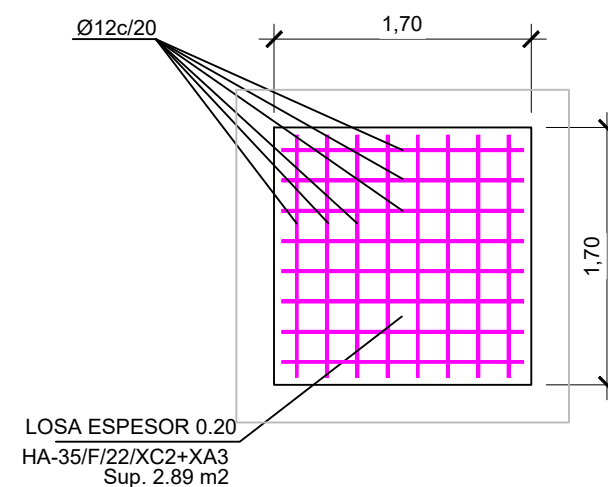
PLANTA CORONA



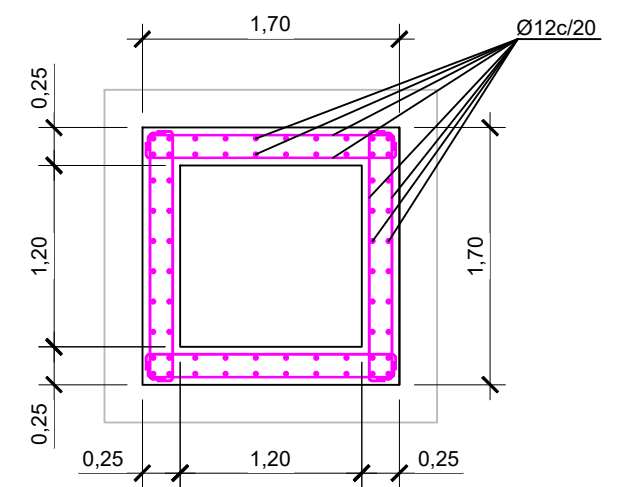
ASIGNACION DE SECCIONES



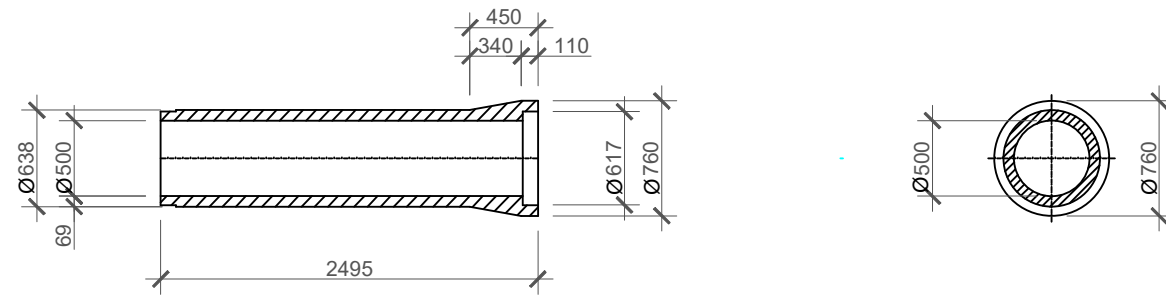
PLANTA LOSA-CIMENTACION



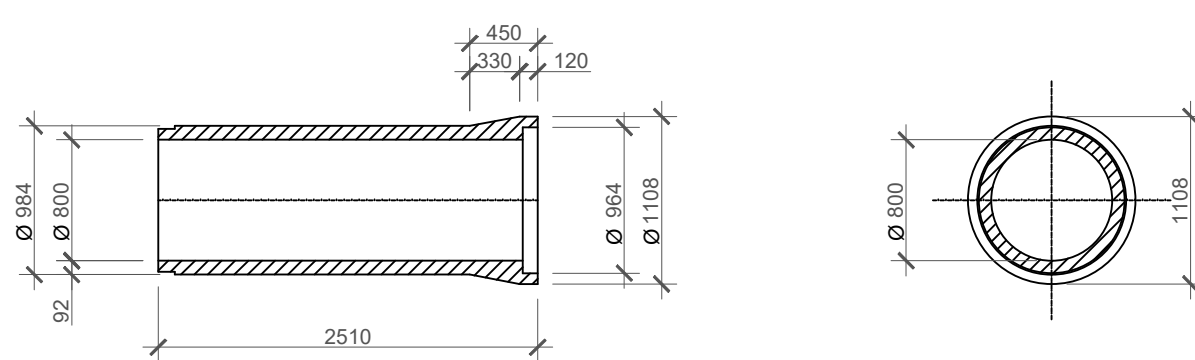
SECCION B-B'



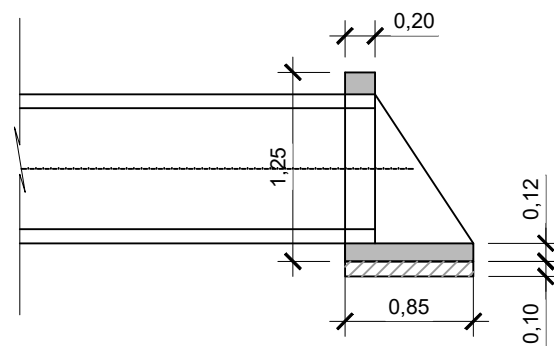
TUBERIA CAMPANA HA HRF DN 500 SECCION LONGITUDINAL SECCION TRANSVERSAL



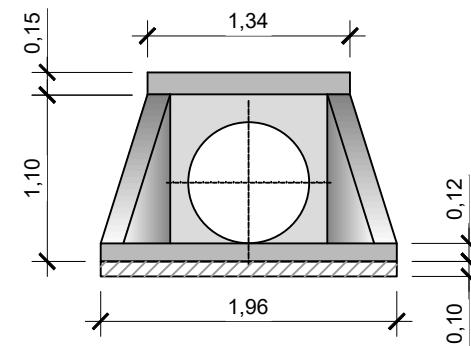
TUBERIA CAMPANA HA HRF DN 800 SECCION LONGITUDINAL SECCION TRANSVERSAL



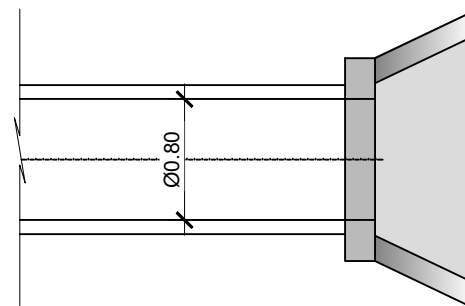
SECCION



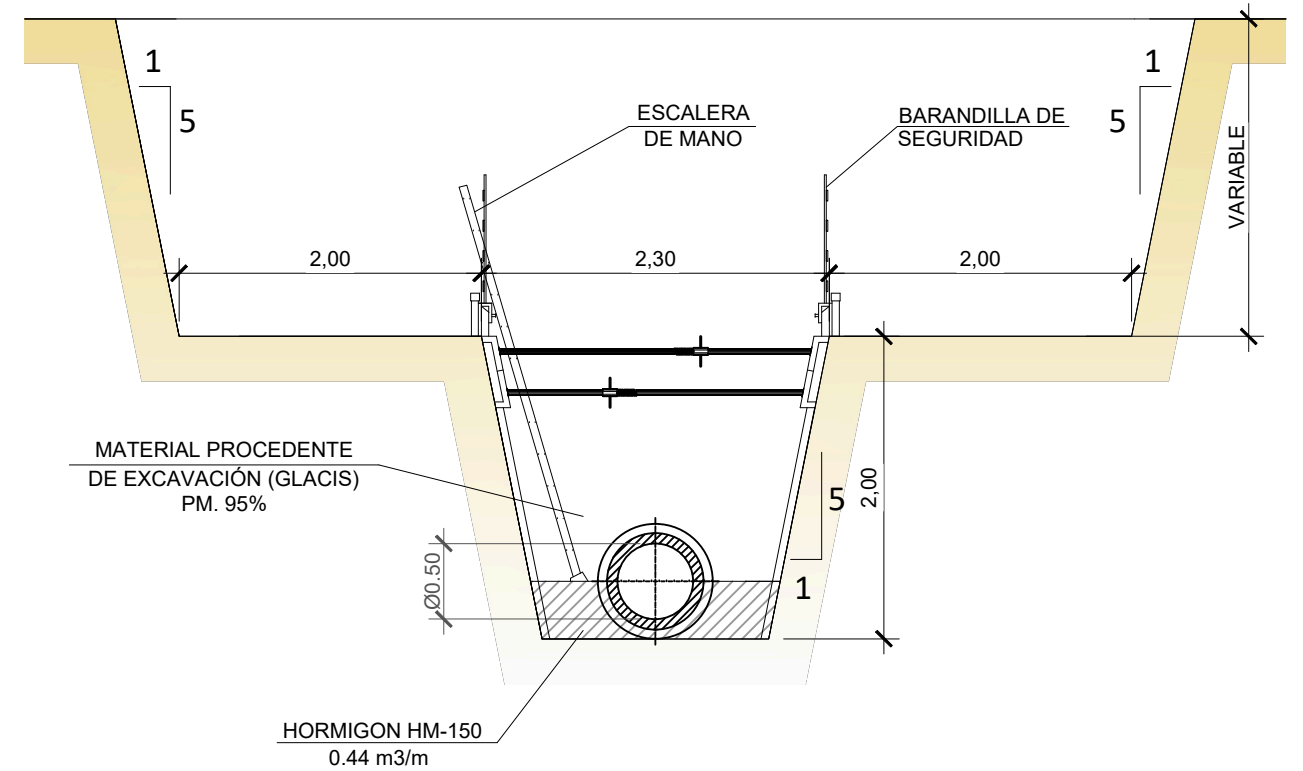
ALZADO



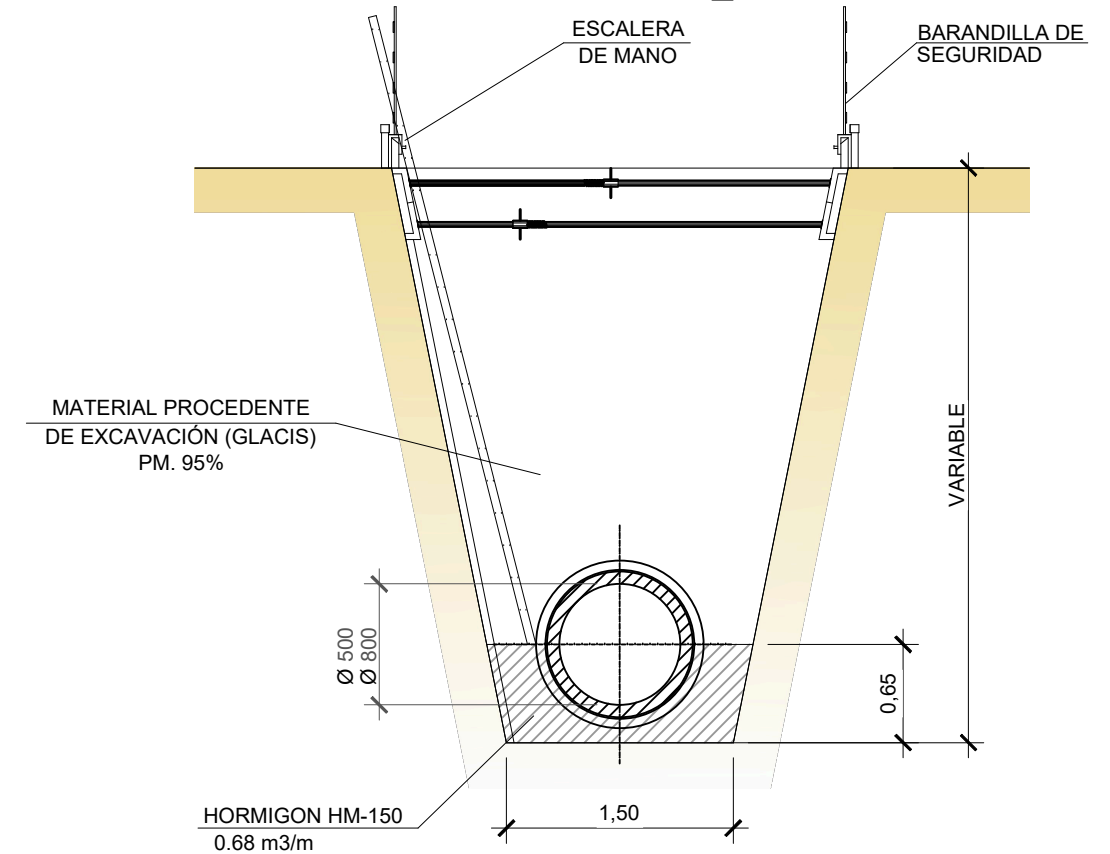
PLANTA



ZANJA TIPO 1 CON BERMA PARA TUBERIA DE HORMIGON DN500

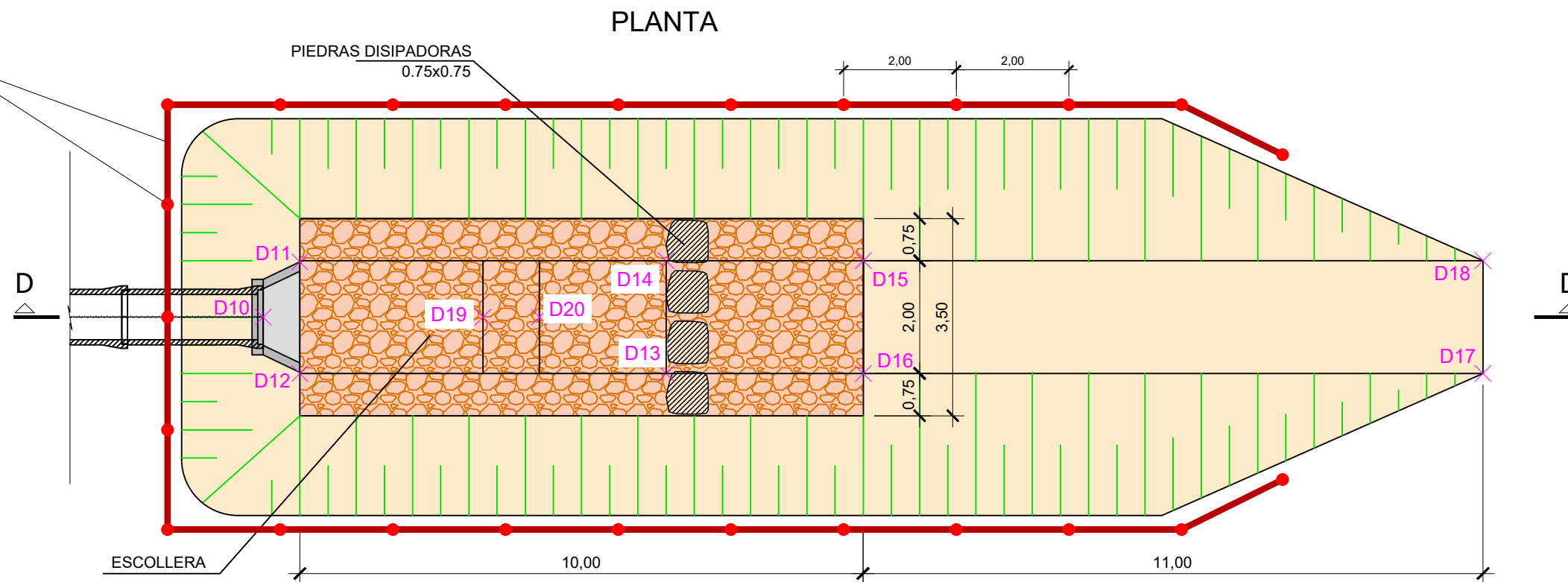


ZANJA TIPO 2 SIN BERMA PARA TUBERIA DE HORMIGON DN500_DN800

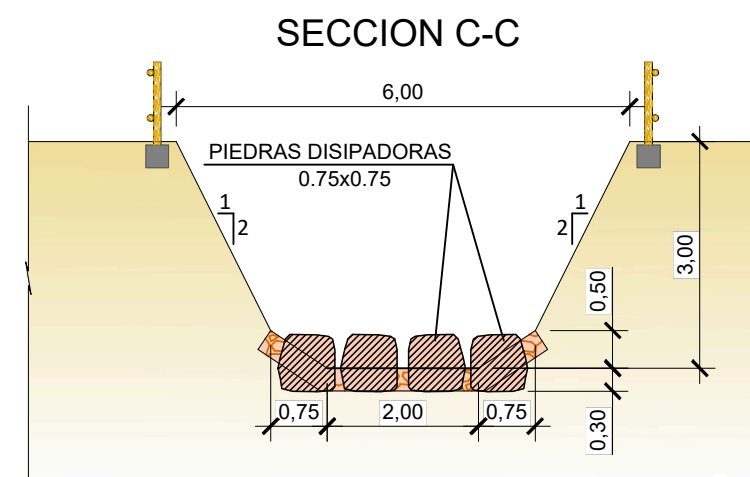
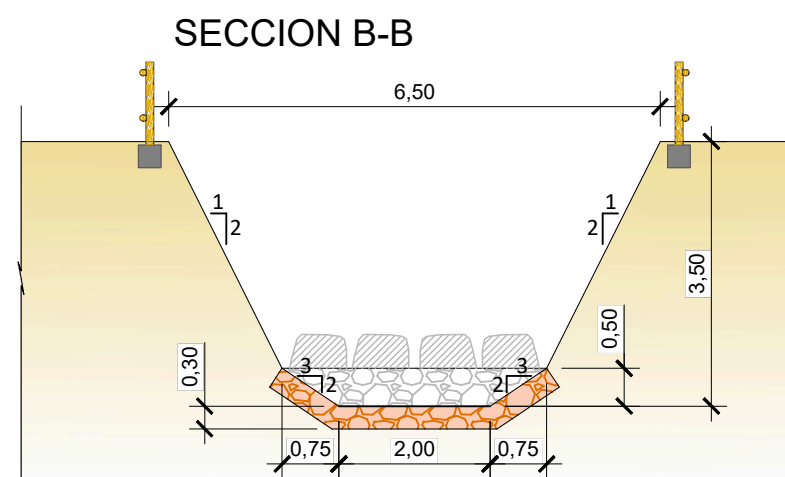
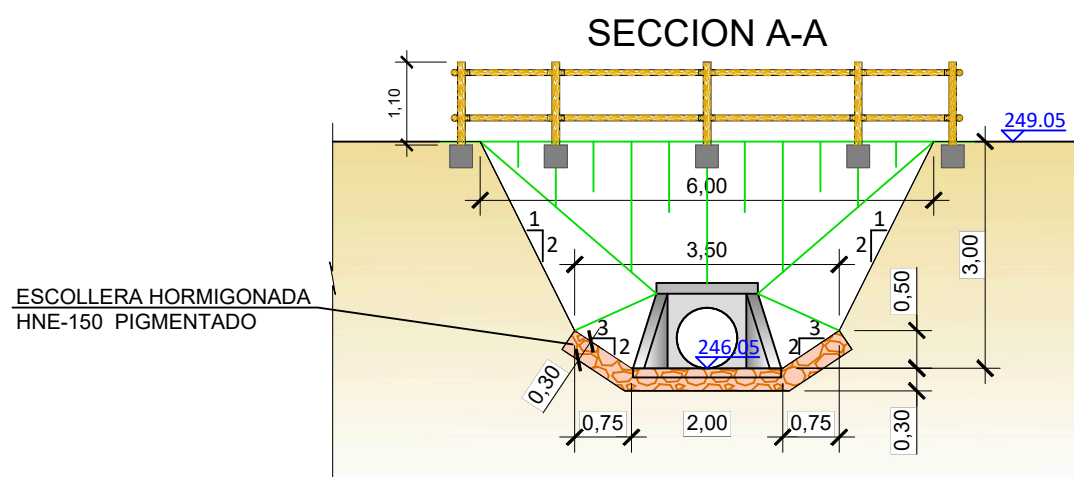
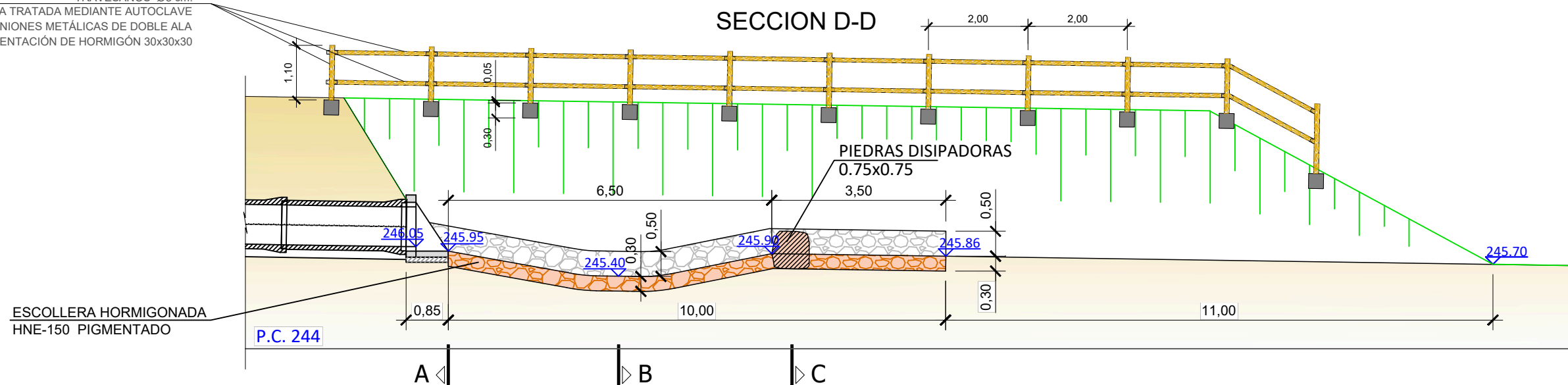


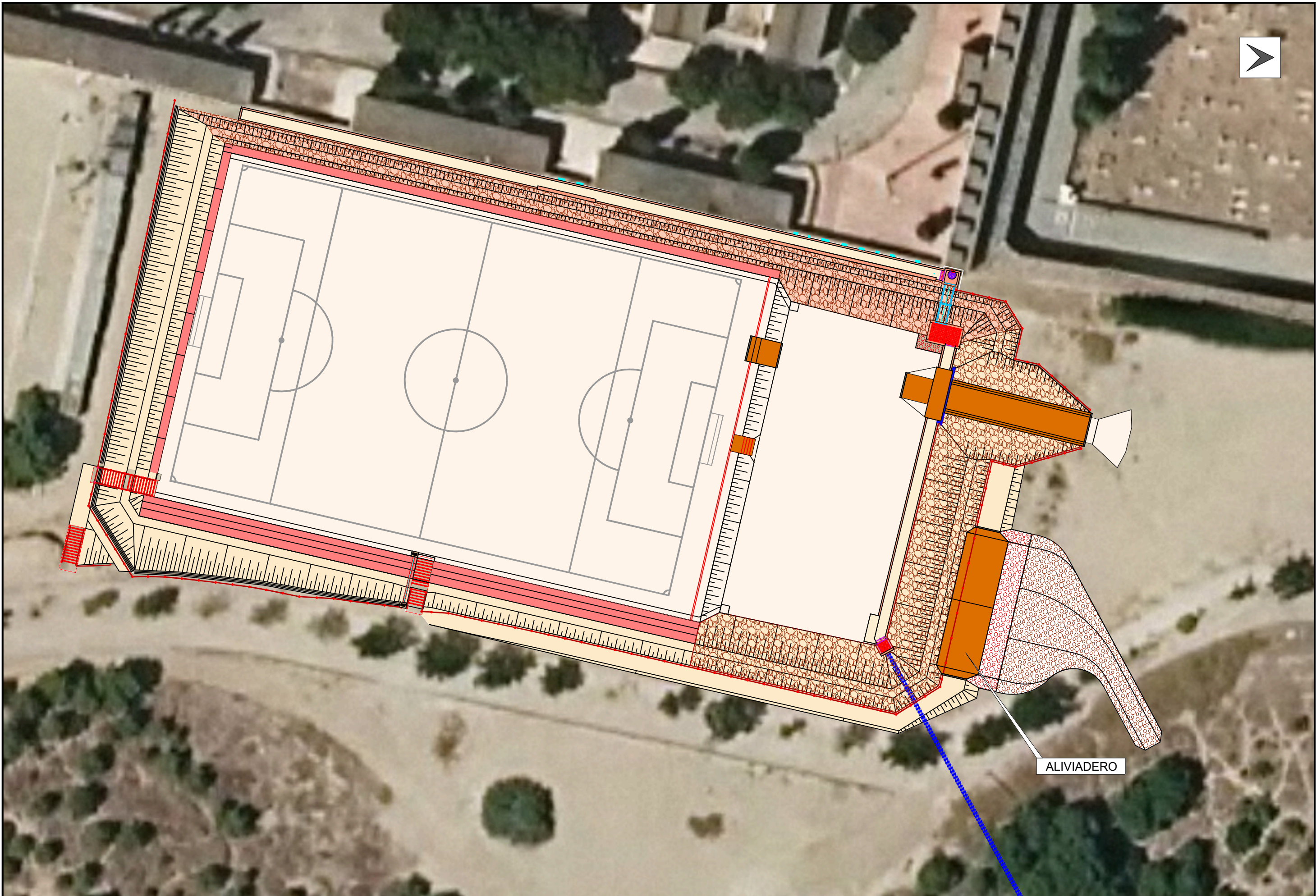
POSTES Ø10 cm.
TRAVESAÑOS Ø8 cm.
MADERA TRATADA MEDIANTE AUTOCLAVE
UNIONES METÁLICAS DE DOBLE ALA
CIMENTACIÓN DE HORMIGÓN 30x30x30

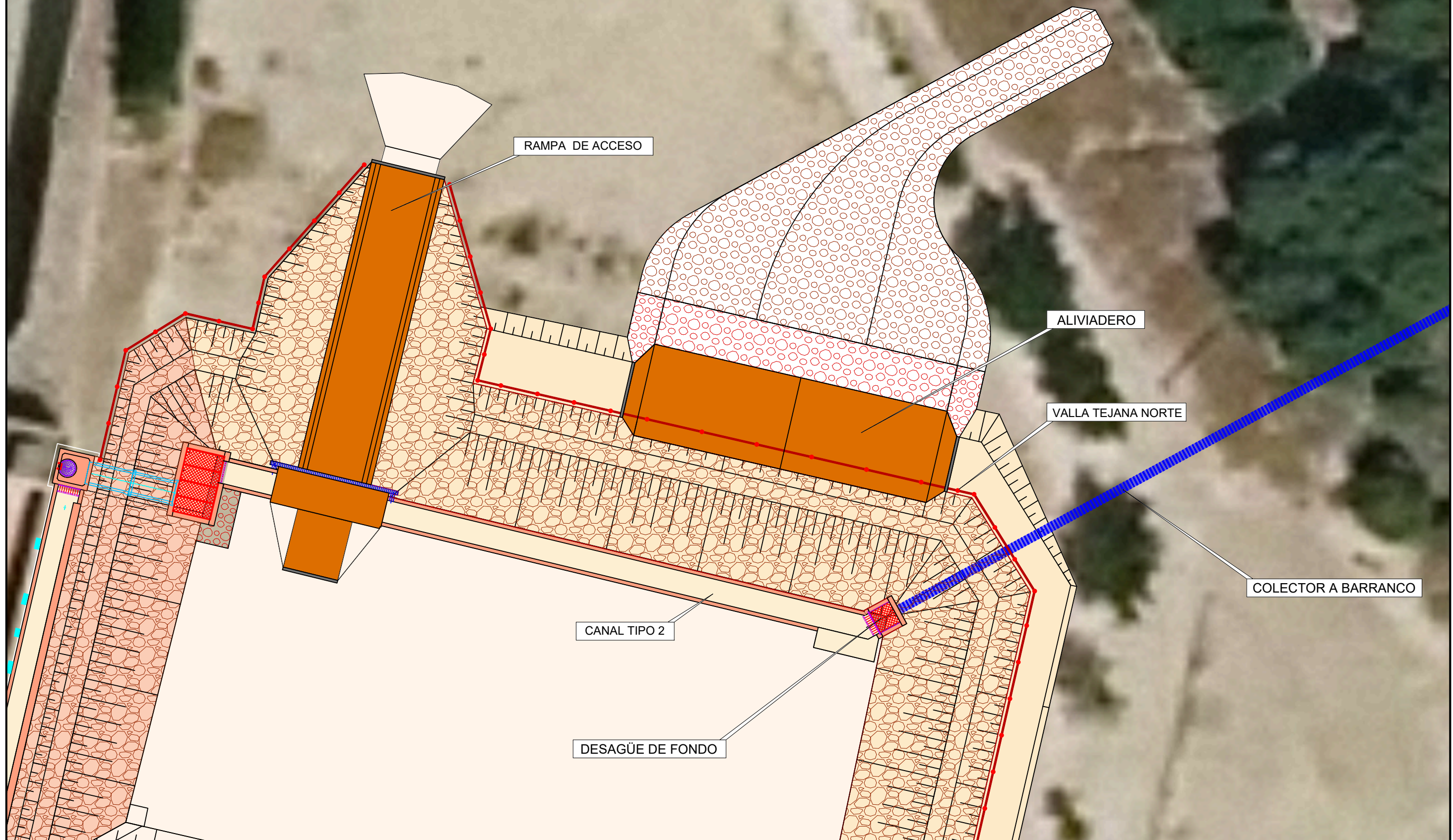
DESAGÜE DE FONDO PUNTOS DE REPLANTEO			
D9	X=676514.99	Y=4609785.31	Z=250.50
D10	X=676532.45	Y=4609783.03	Z=246.05
D11	X=676533.22	Y=4609783.94	Z=245.95
D12	X=676532.96	Y=4609781.96	Z=245.95
D13	X=676539.41	Y=4609781.11	Z=245.90
D14	X=676539.66	Y=4609783.10	Z=245.90
D15	X=676543.13	Y=4609782.65	Z=245.86
D16	X=676542.88	Y=4609780.66	Z=245.86
D17	X=676553.79	Y=4609779.26	Z=245.70
D18	X=676554.04	Y=4609781.20	Z=245.70
D19	X=676536.31	Y=4609782.51	Z=245.40
D20	X=676537.30	Y=4609782.38	Z=245.40



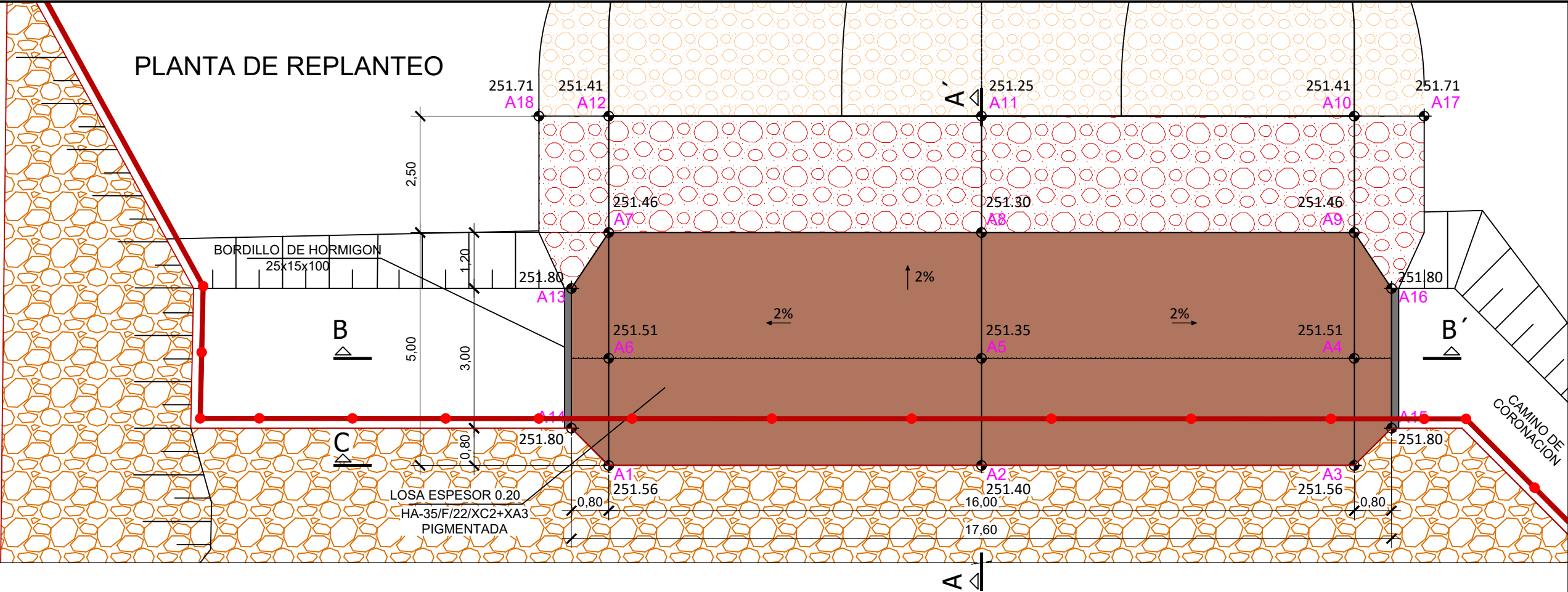
POSTES Ø10 cm.
TRAVESAÑOS Ø8 cm.
MADERA TRATADA MEDIANTE AUTOCLAVE
UNIONES METÁLICAS DE DOBLE ALA
CIMENTACIÓN DE HORMIGÓN 30x30x30



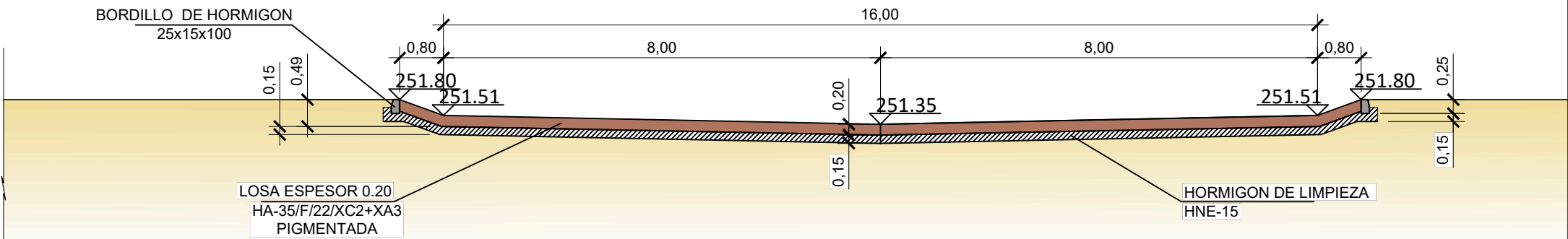




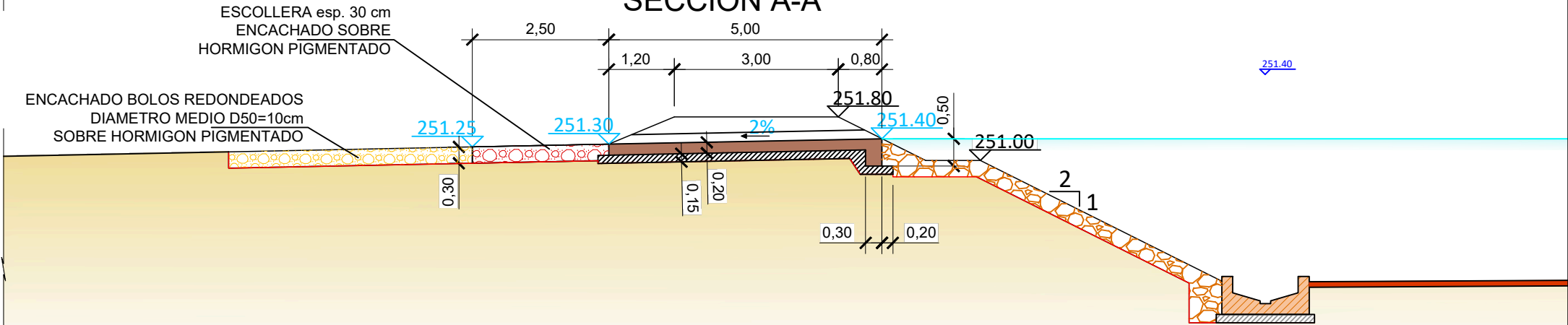
PLANTA DE REPLANTEO



SECCIÓN B-B'

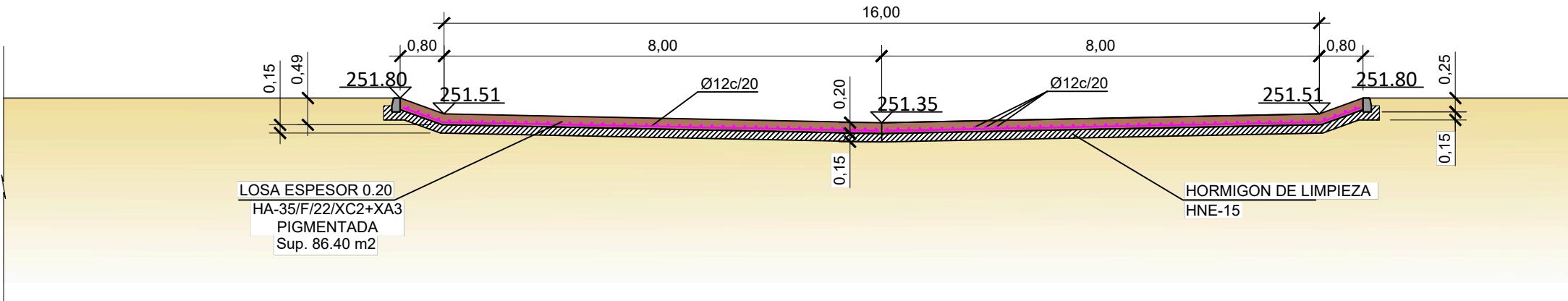


SECCIÓN A-A'

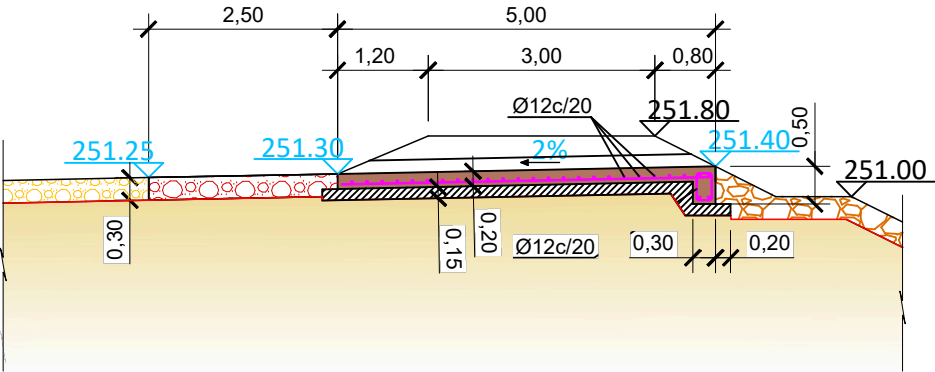


VADO-ALIVIADERO			
PUNTOS DE REPLANTEO			
A1	X=676464.88	Y=4609775.02	Z=251.56
A2	X=676472.67	Y=4609773.23	Z=250.40
A3	X=676480.47	Y=4609771.44	Z=251.56
A4	X=676480.99	Y=4609773.68	Z=251.51
A5	X=676473.19	Y=4609775.47	Z=251.35
A6	X=676465.39	Y=4609777.26	Z=251.51
A7	X=676465.99	Y=4609779.89	Z=251.46
A8	X=676473.79	Y=4609778.10	Z=251.30
A9	X=676481.59	Y=4609776.32	Z=251.46
A10	X=676482.15	Y=4609778.75	Z=251.41
A11	X=676474.35	Y=4609780.54	Z=250.25
A12	X=676466.55	Y=4609782.33	Z=251.41
A13	X=676464.95	Y=4609778.90	Z=251.80
A14	X=676464.28	Y=4609775.98	Z=251.80
A15	X=676481.43	Y=4609772.04	Z=251.80
A16	X=676482.10	Y=4609774.97	Z=251.80
A17	X=676483.61	Y=4609778.42	Z=251.71
A18	X=676465.09	Y=4609782.66	Z=251.71

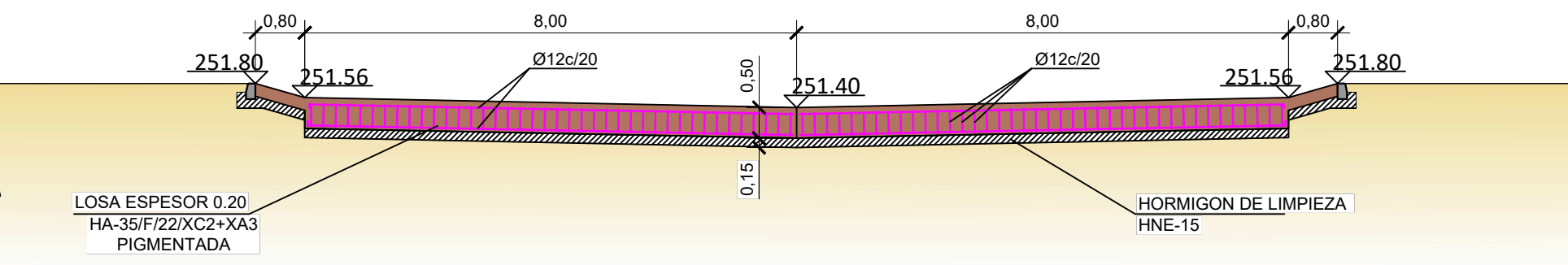
SECCIÓN B-B'



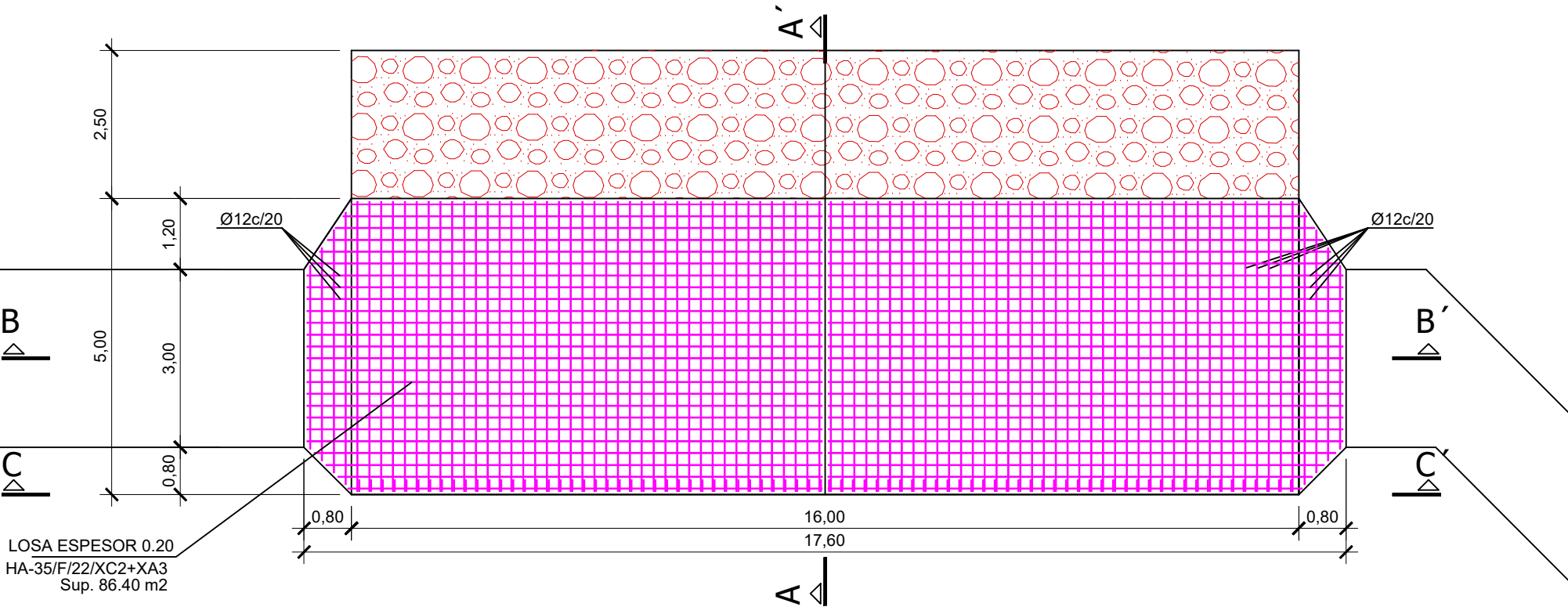
SECCIÓN A-A'

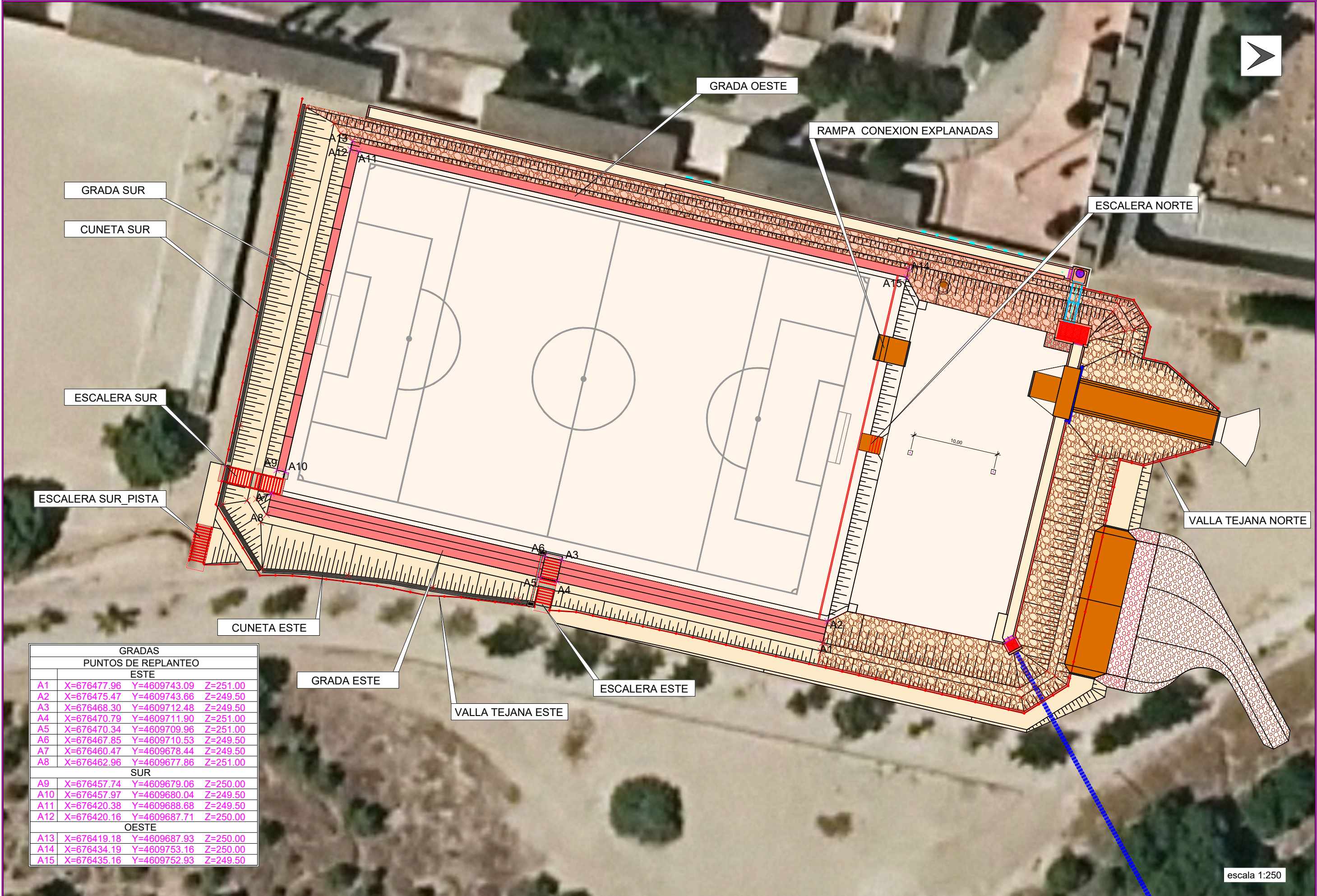


SECCIÓN C-C'

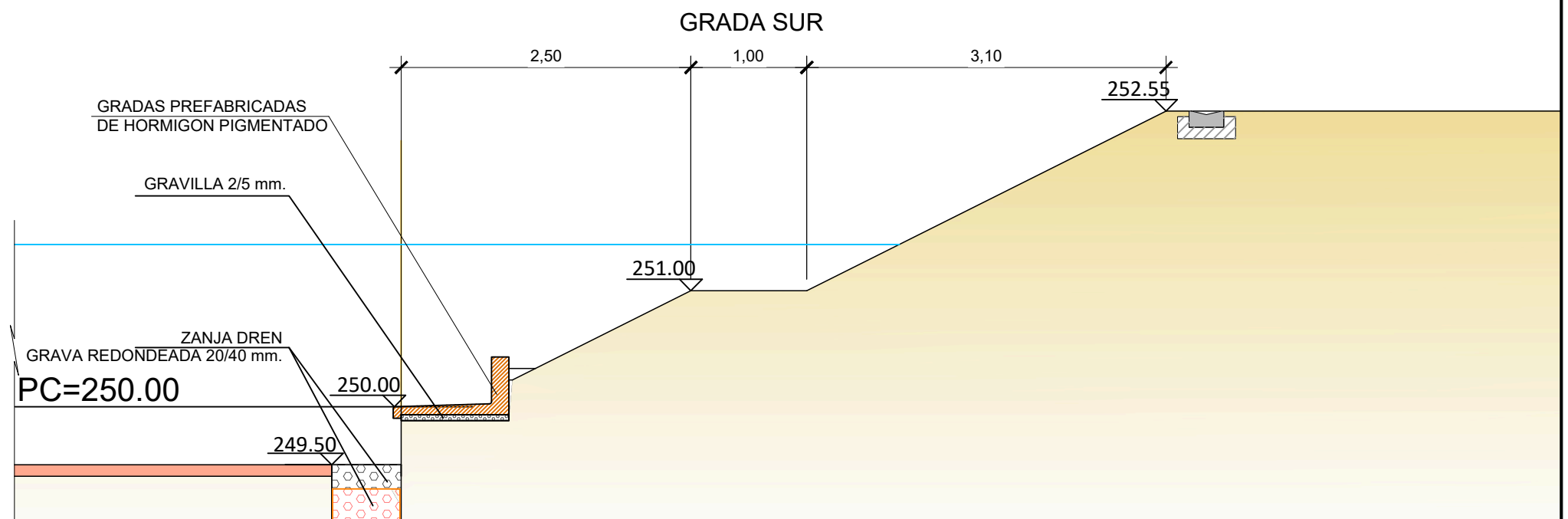
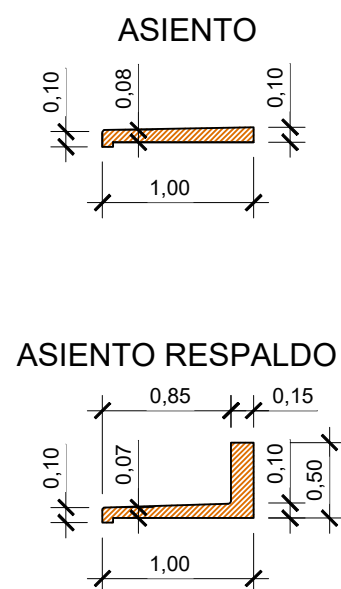
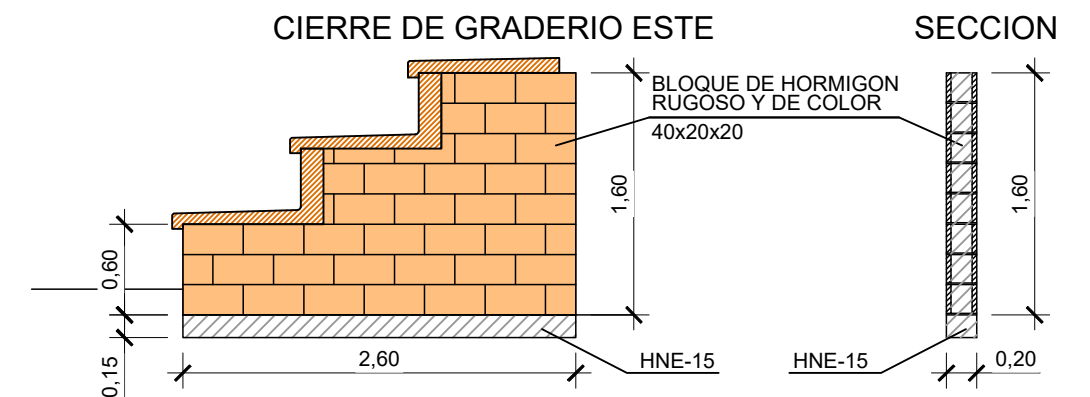
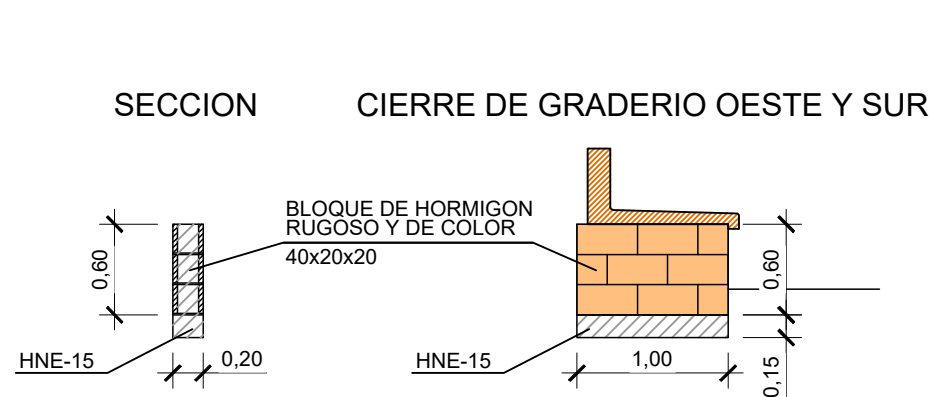
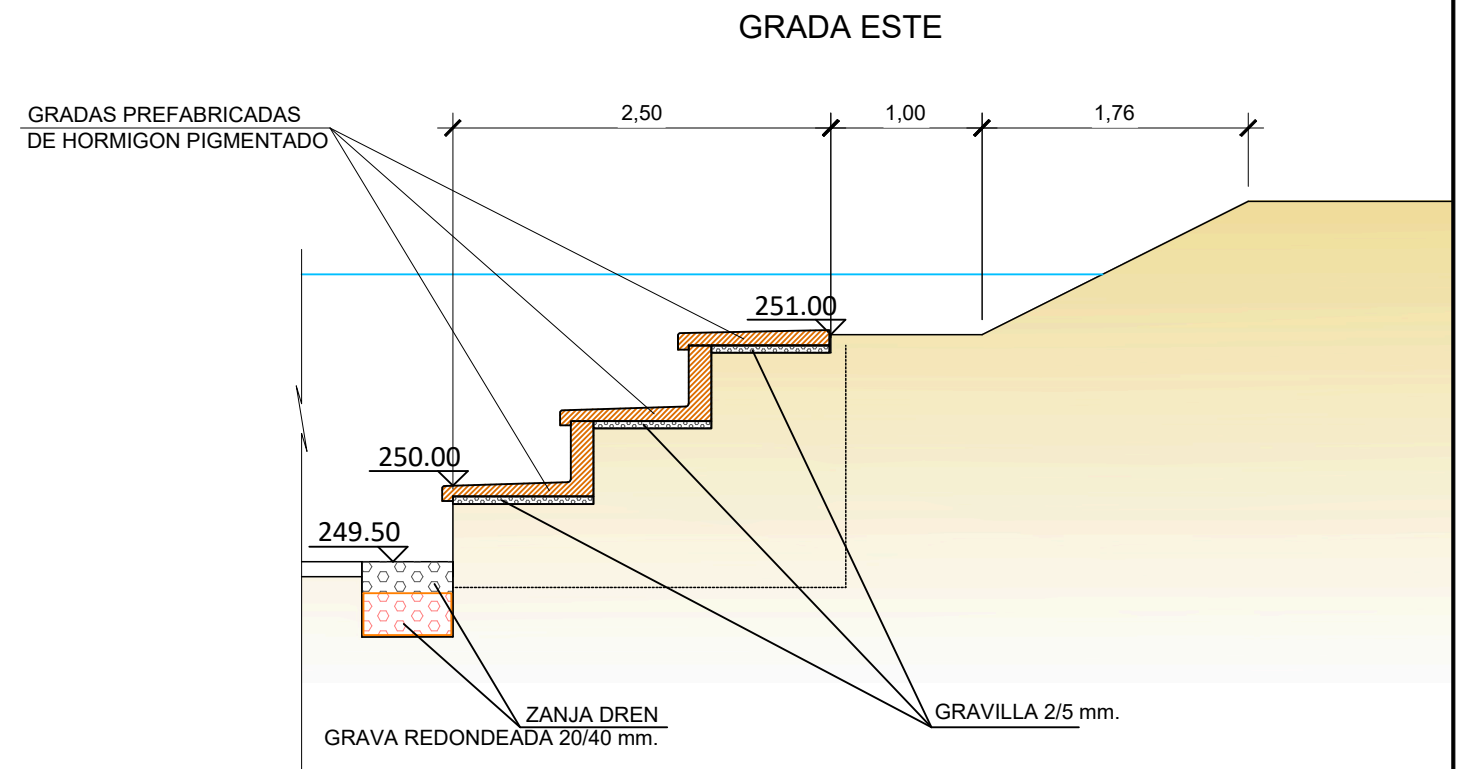
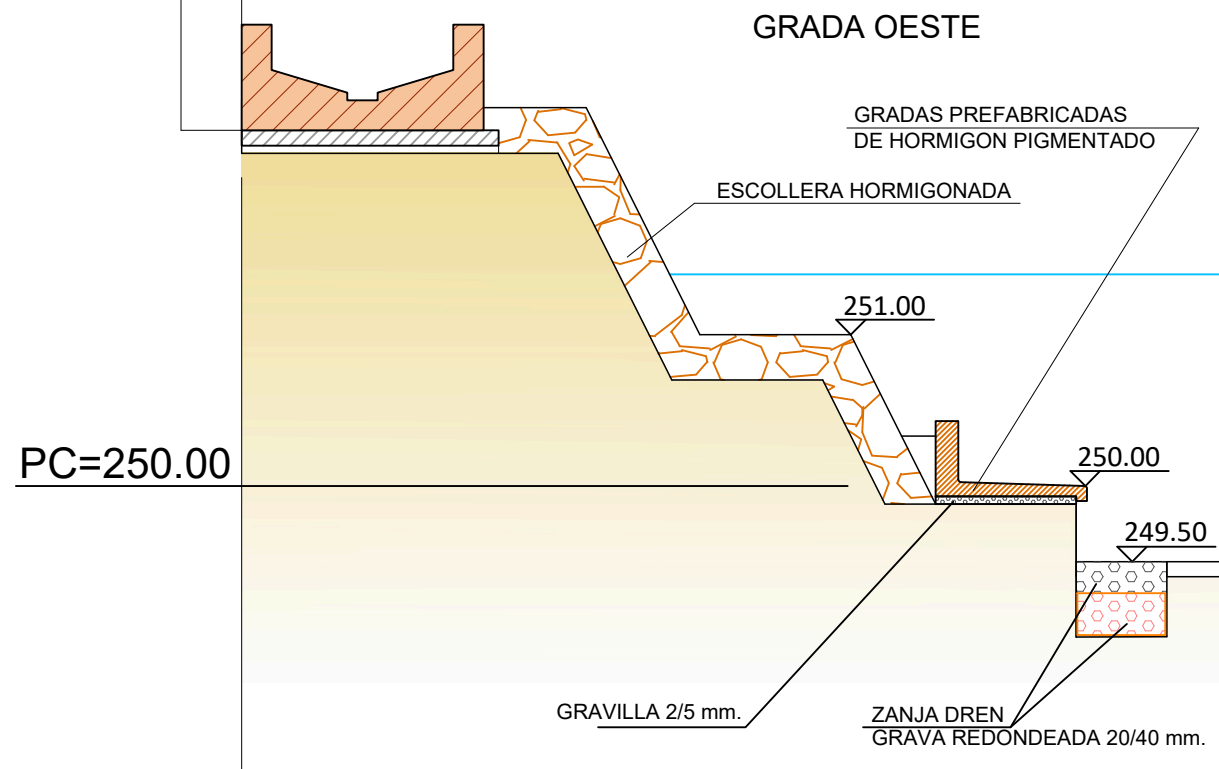


PLANTA DE ARMADO





GRADAS			
PUNTOS DE REPLANTEO			
ESTE			
A1	X=676477.96	Y=4609743.09	Z=251.00
A2	X=676475.47	Y=4609743.66	Z=249.50
A3	X=676468.30	Y=4609712.48	Z=249.50
A4	X=676470.79	Y=4609711.90	Z=251.00
A5	X=676470.34	Y=4609709.96	Z=251.00
A6	X=676467.85	Y=4609710.53	Z=249.50
A7	X=676460.47	Y=4609678.44	Z=249.50
A8	X=676462.96	Y=4609677.86	Z=251.00
SUR			
A9	X=676457.74	Y=4609679.06	Z=250.00
A10	X=676457.97	Y=4609680.04	Z=249.50
A11	X=676420.38	Y=4609688.68	Z=249.50
A12	X=676420.16	Y=4609687.71	Z=250.00
OESTE			
A13	X=676419.18	Y=4609687.93	Z=250.00
A14	X=676434.19	Y=4609753.16	Z=250.00
A15	X=676435.16	Y=4609752.93	Z=249.50

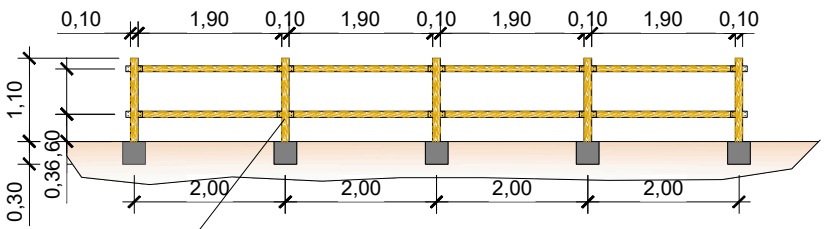
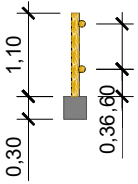
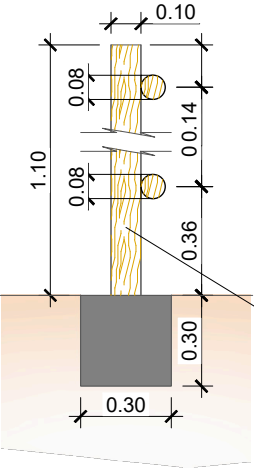


BARANDILLA DE MADERA (TEJANA) ESCALA 1:100

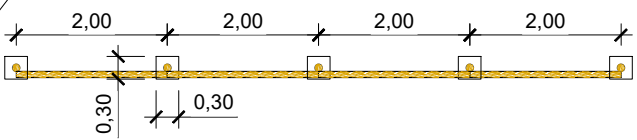
DETALLE ESCALA 1:25

SECCIÓN

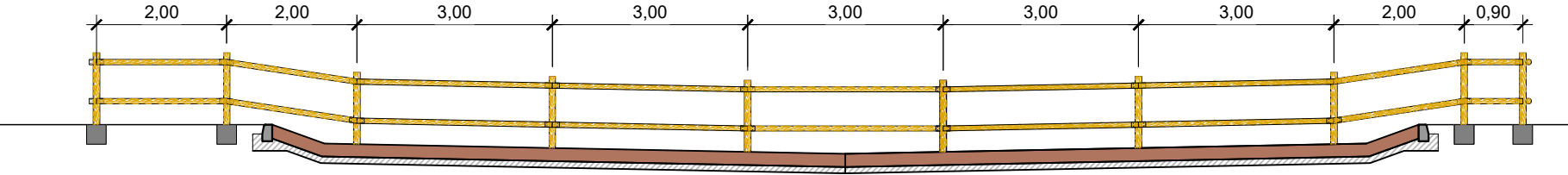
ALZADO



PLANTA

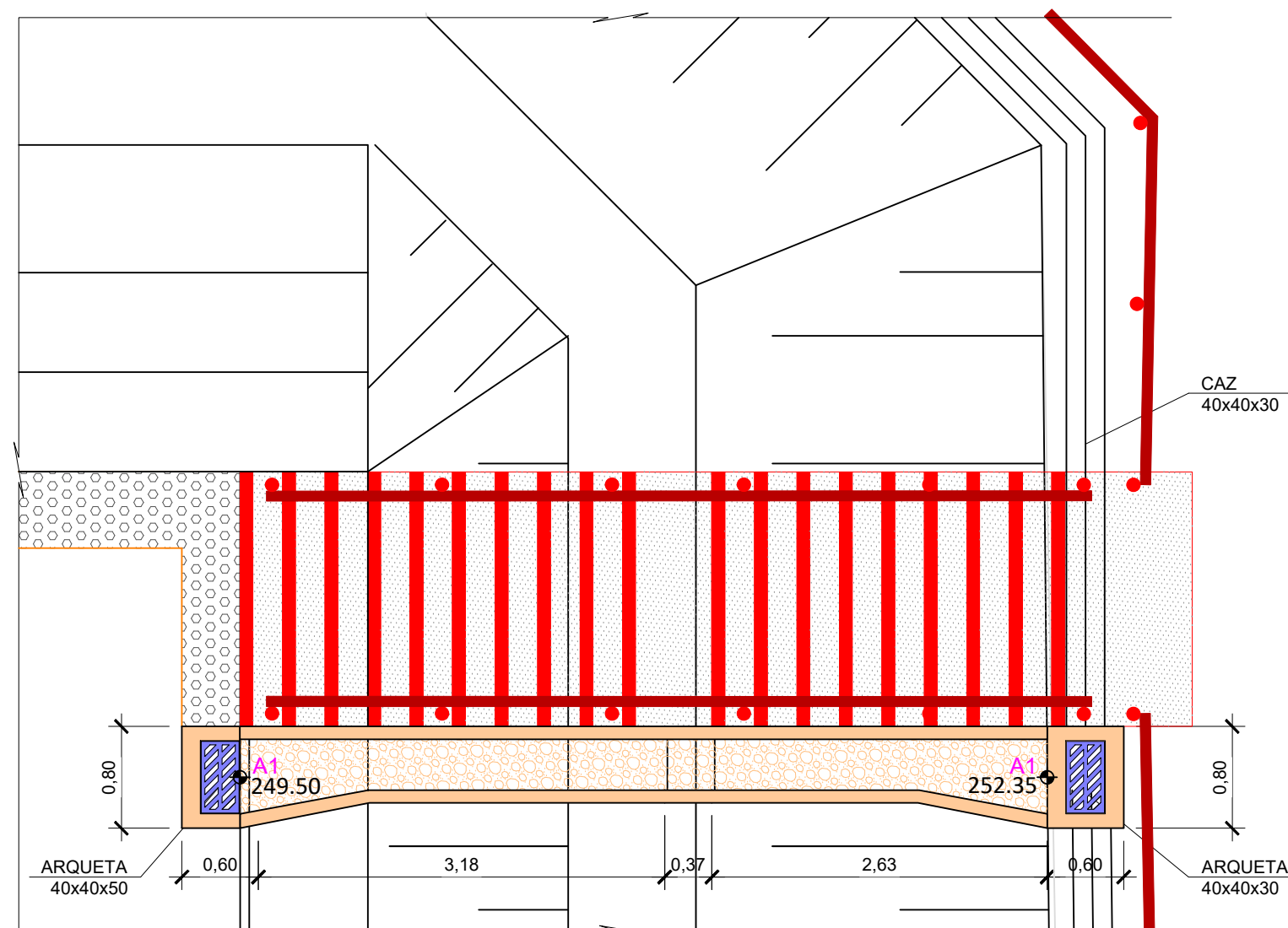


ALZADO EN ALIVIADERO



POSTES Ø10 cm.
TRAVESAÑOS Ø8 cm.
MADERA TRATADA MEDIANTE AUTOCLAVE
UNIONES METÁLICAS DE DOBLE ALA
CIMENTACIÓN DE HORMIGÓN 30x30x30

ARQUETAS Y BAJANTE			
PUNTOS DE REPLANTEO			
A1	X=676456.94	Y=4609673.79	Z=252.35
A2	X=676458.36	Y=4609679.95	Z=249.50



9 VIGAS DE MADERA
2000x200x100

2,00

252.35

1.35

251.00

1.50

250.00

0.50

249.50

ZANJA DREN

GRAVA REDONDEADA 20/40 mm.

HNE-15

SECTION

ENCACHADO DE BOLOS

MARCO Y REJILLA DE FUNDICION

ARQUETA SUMIDERO 30x55

249.50

0.50

0.10

0.60

249.40

3.36

0.37

2.74

0.60

0.30

0.10

251.00

250.90

252.35

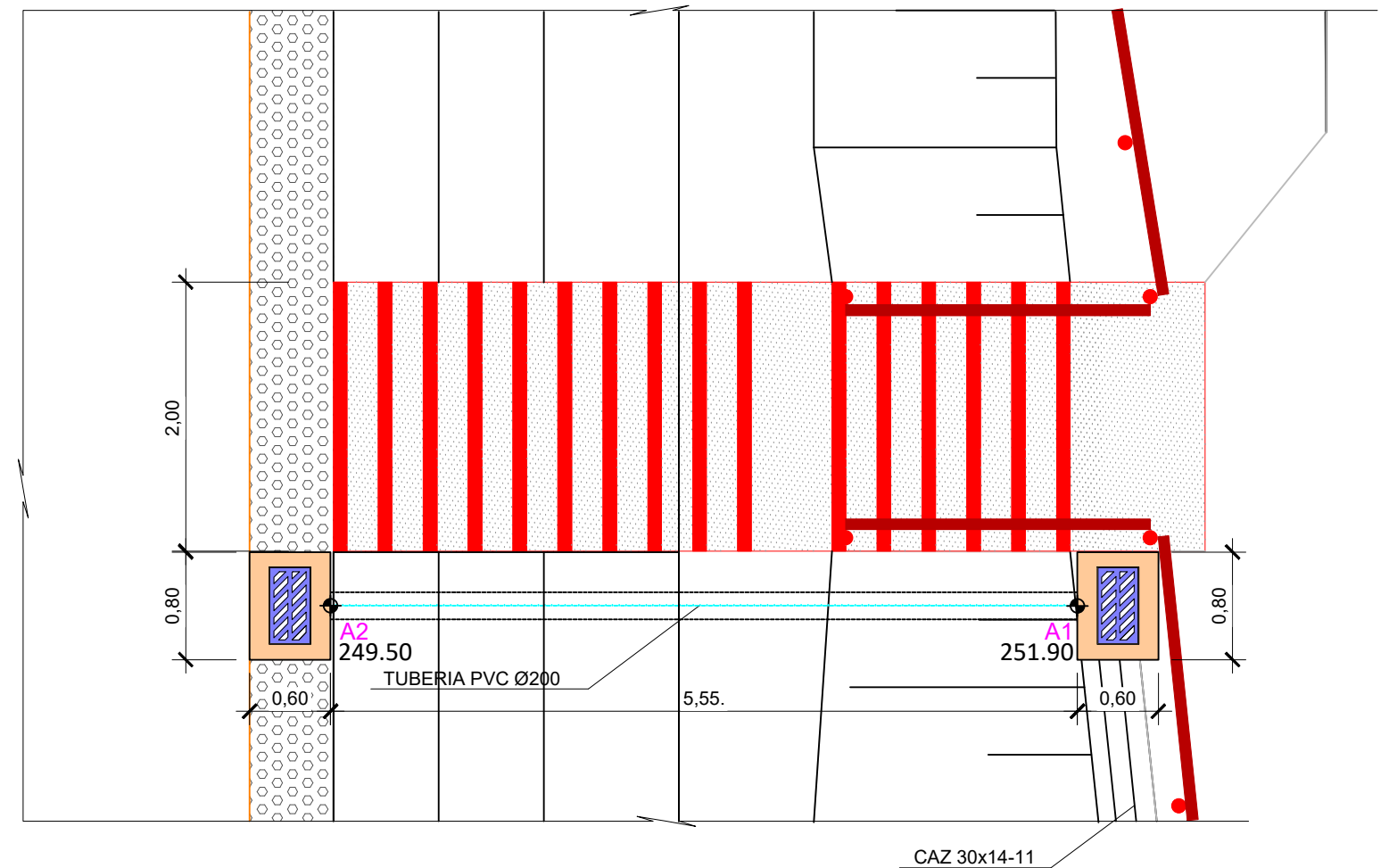
HNE-15

PC=250.00

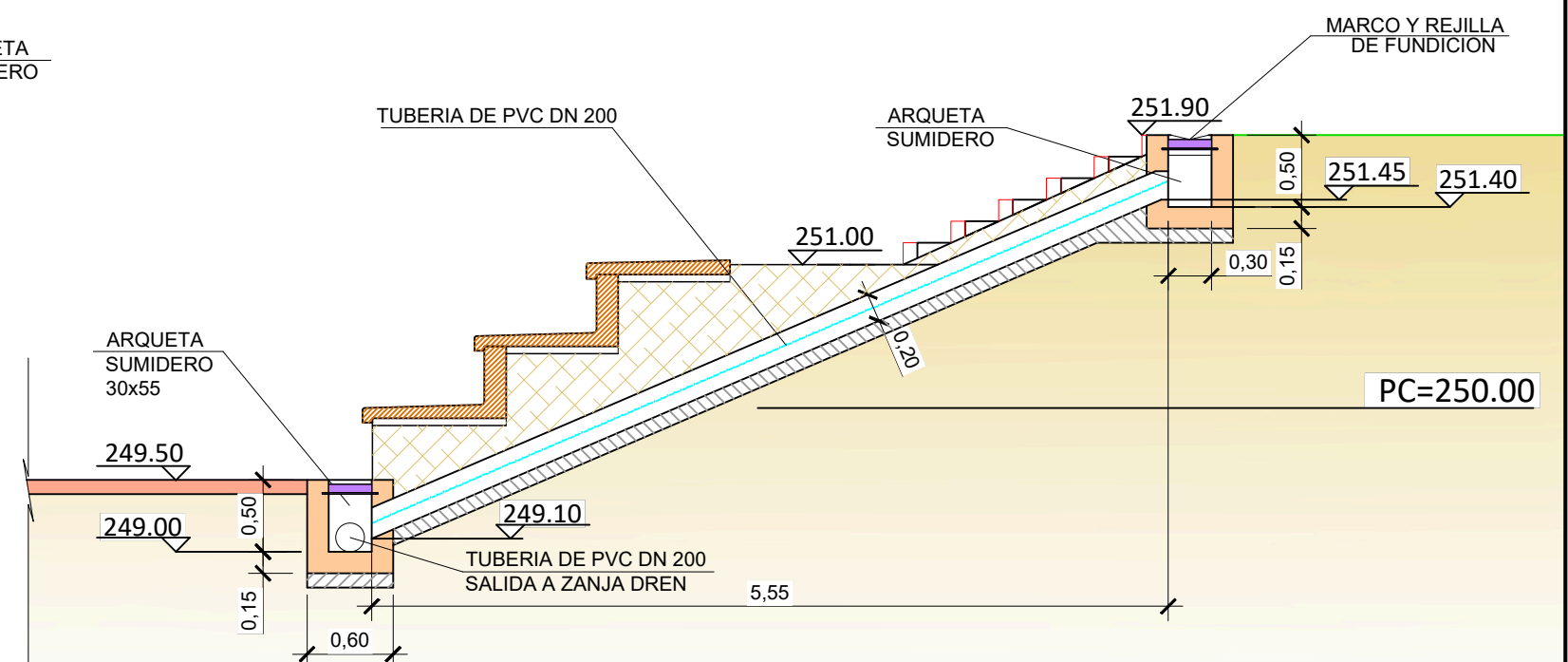
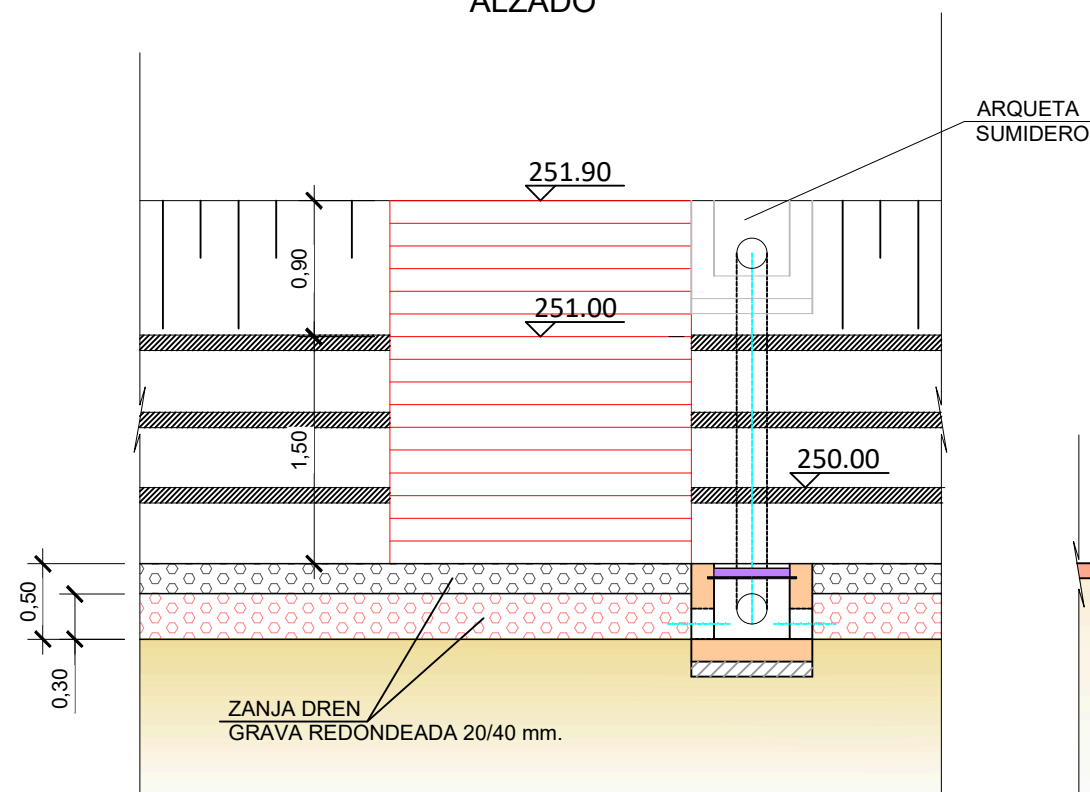
6.32

PLANTA

Technical drawing of a CAZ 30x14 component. The drawing shows a cross-section of a rectangular block with a central hole. The dimensions are indicated as follows: 0,11 (width of the left flange), 0,14 (width of the central hole), 0,10 (width of the right flange), 0,30 (height of the block), and 0,50 (total height including the central hole). The drawing is labeled CAZ 30x14.

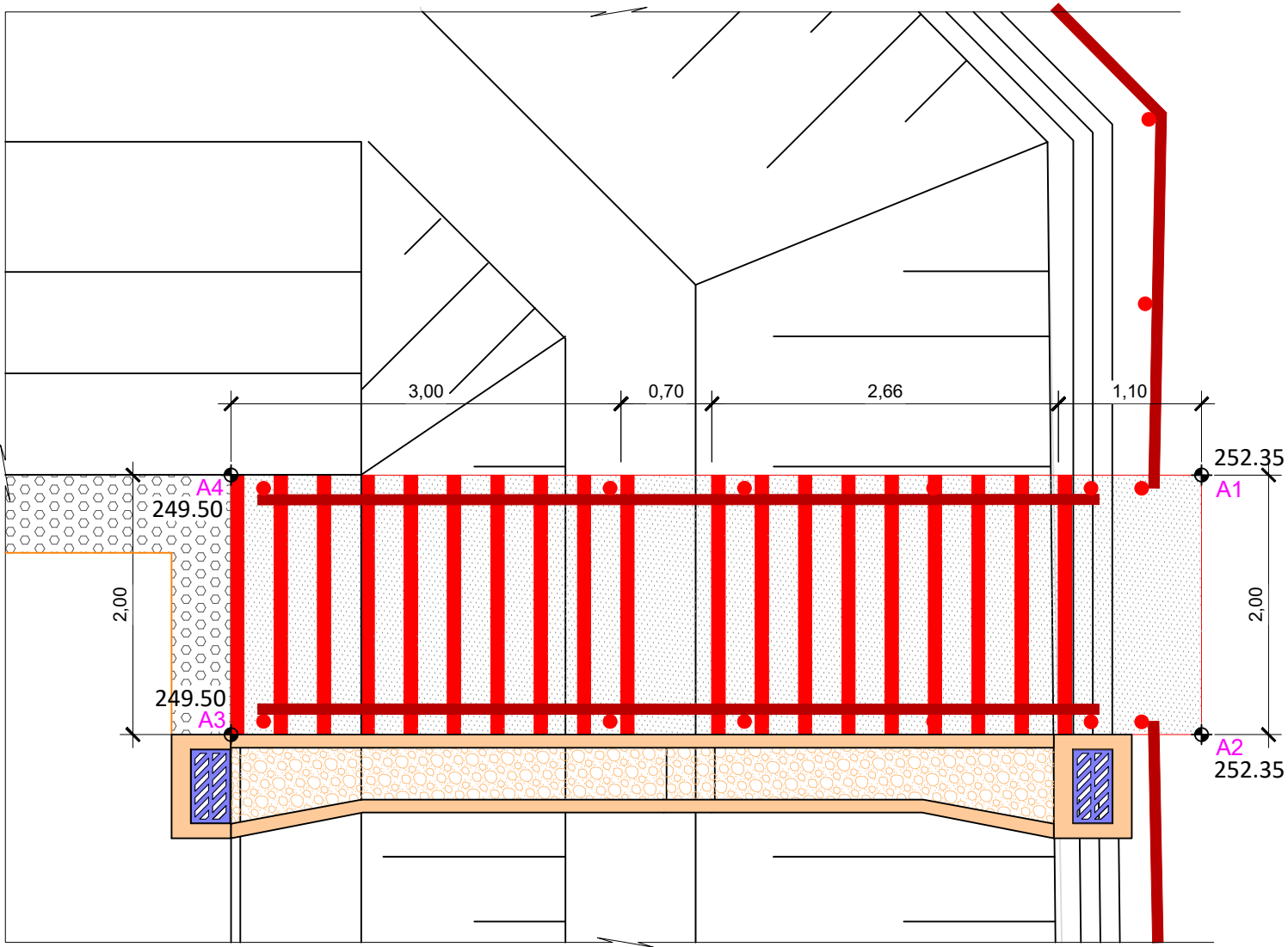


SECCION

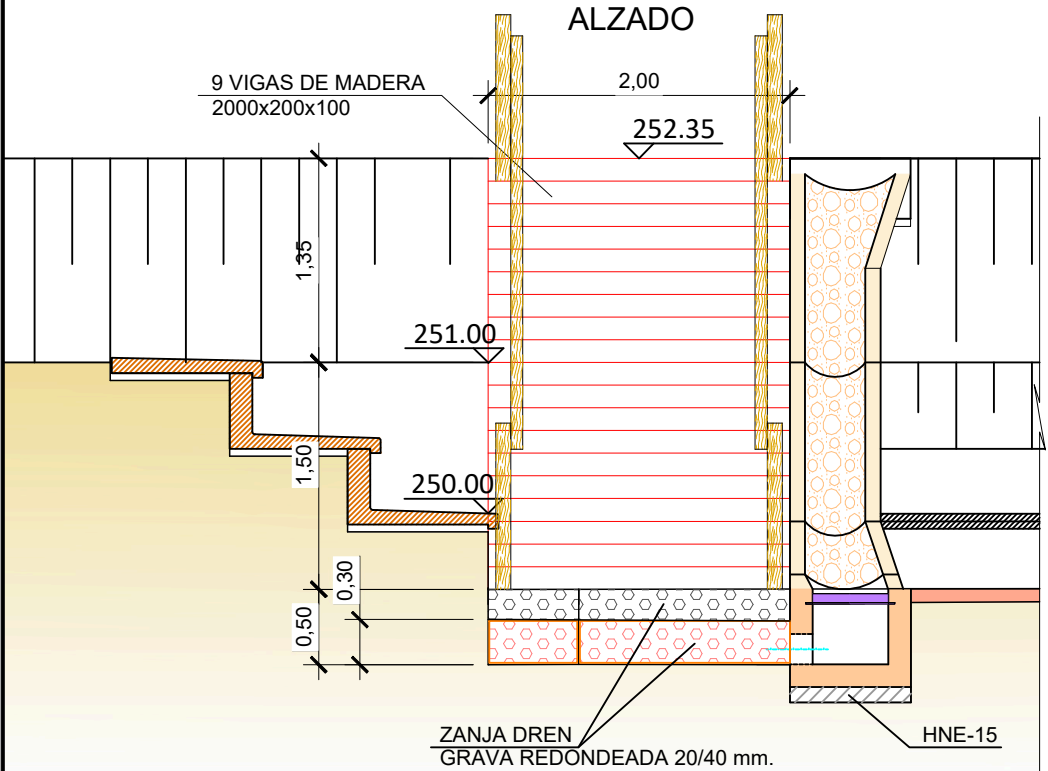


ESCALERA SUR
PLANTA

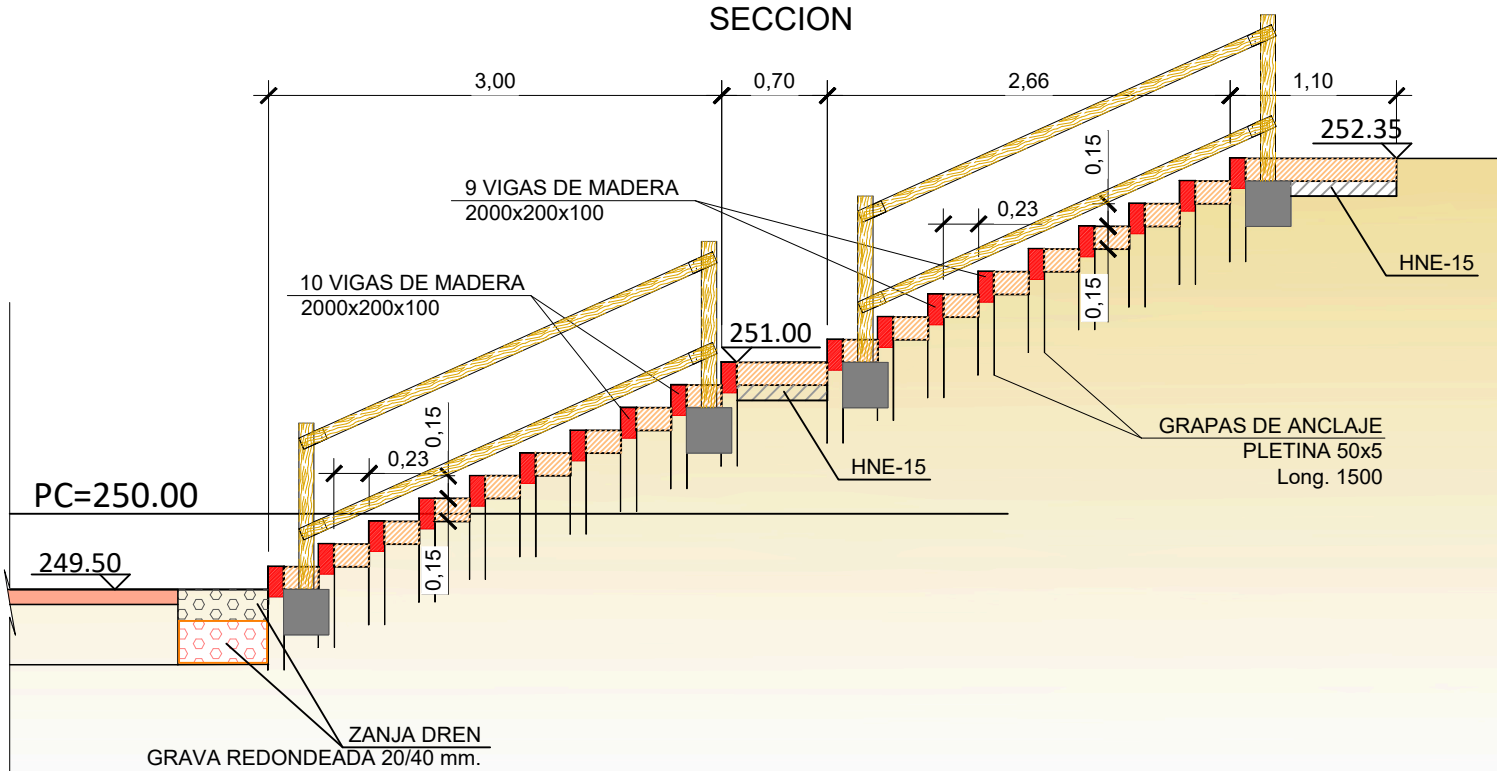
ESCALERA SUR				
PUNTOS DE REPLANTEO				
A1	X=676459.02	Y=4609672.14	Z=252.35	
A2	X=676457.07	Y=4609672.59	Z=252.35	
A3	X=676458.74	Y=4609679.86	Z=249.50	
A4	X=676460.69	Y=4609679.41	Z=249.50	

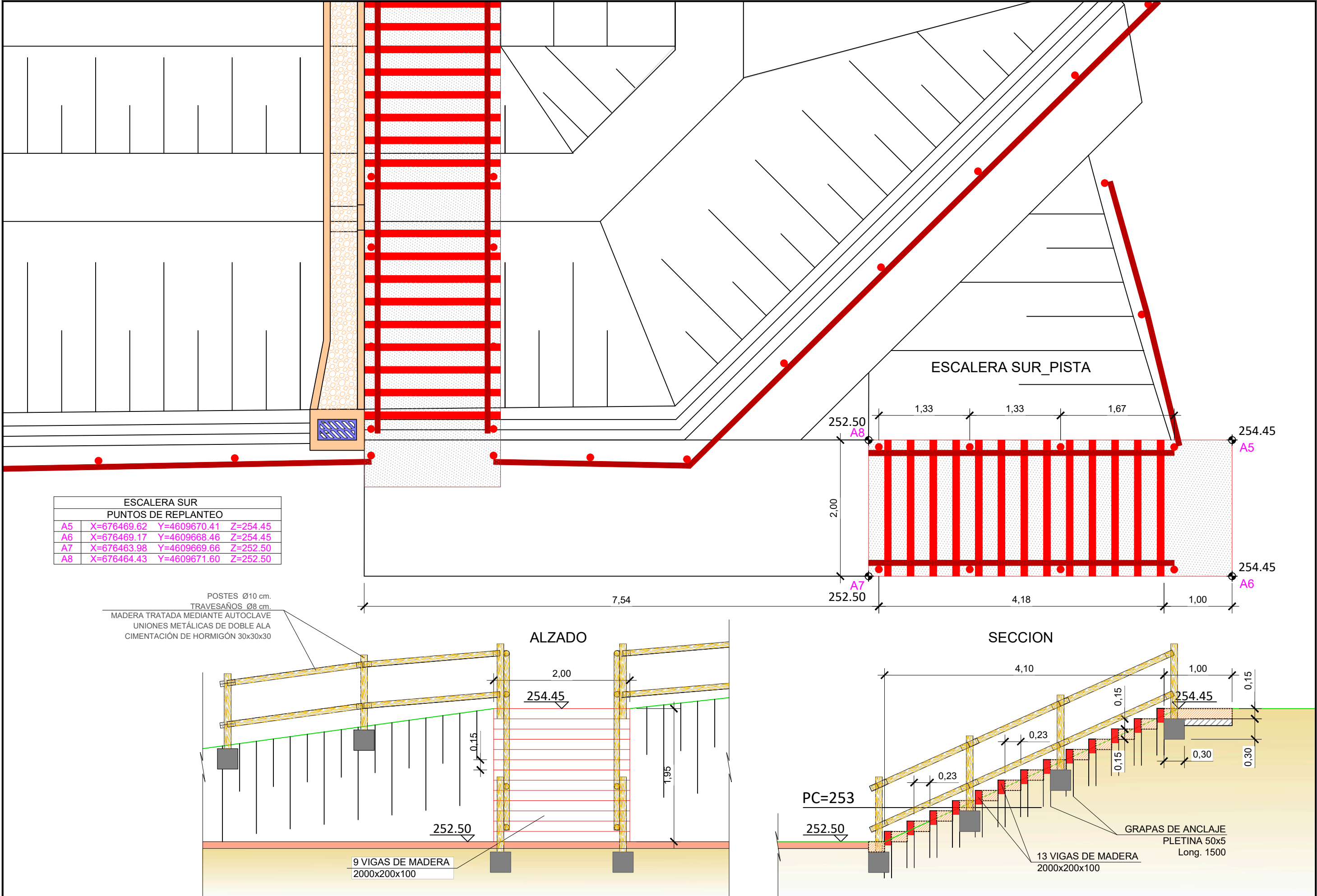


ALZADO



SECCION

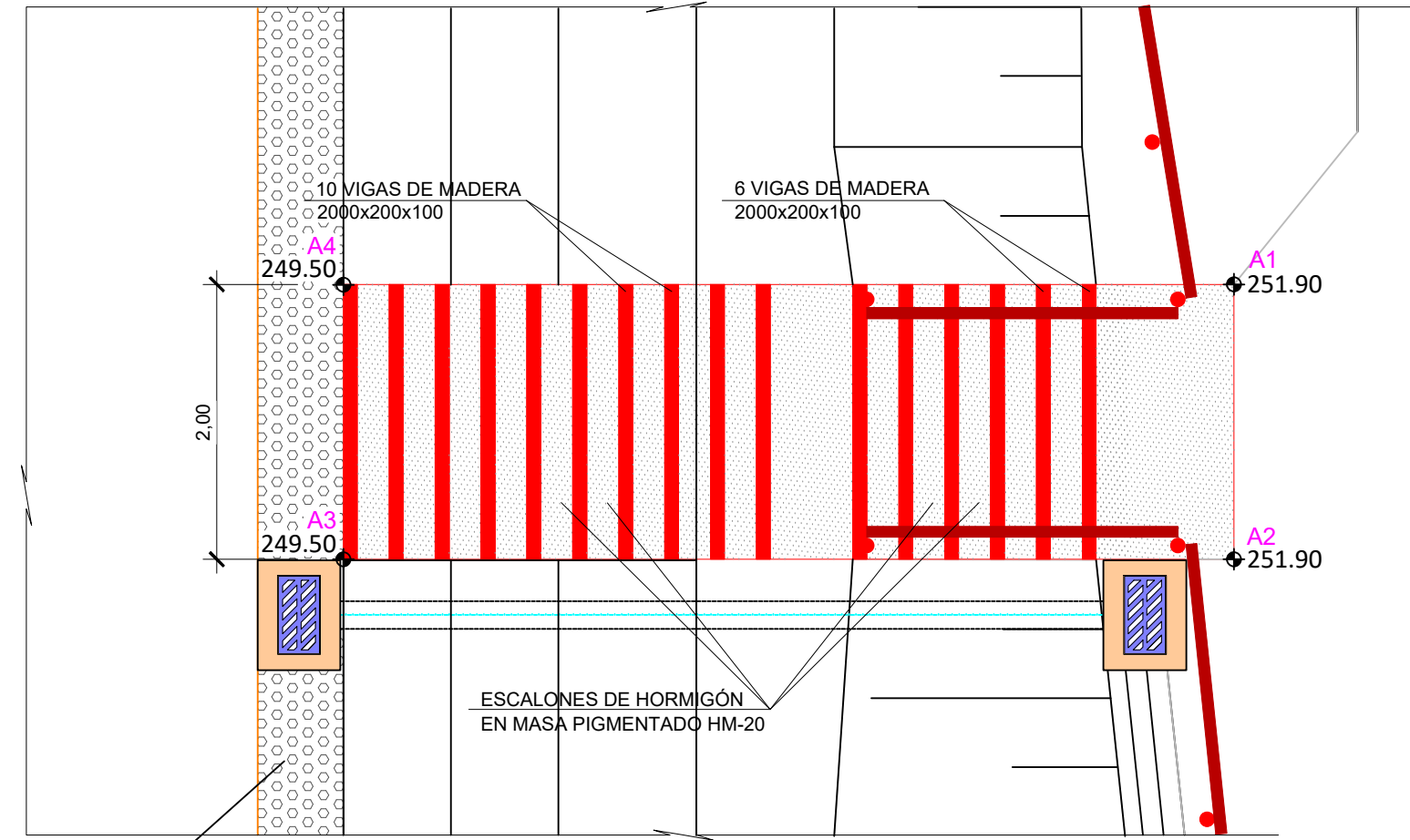




ESCALERA ESTE

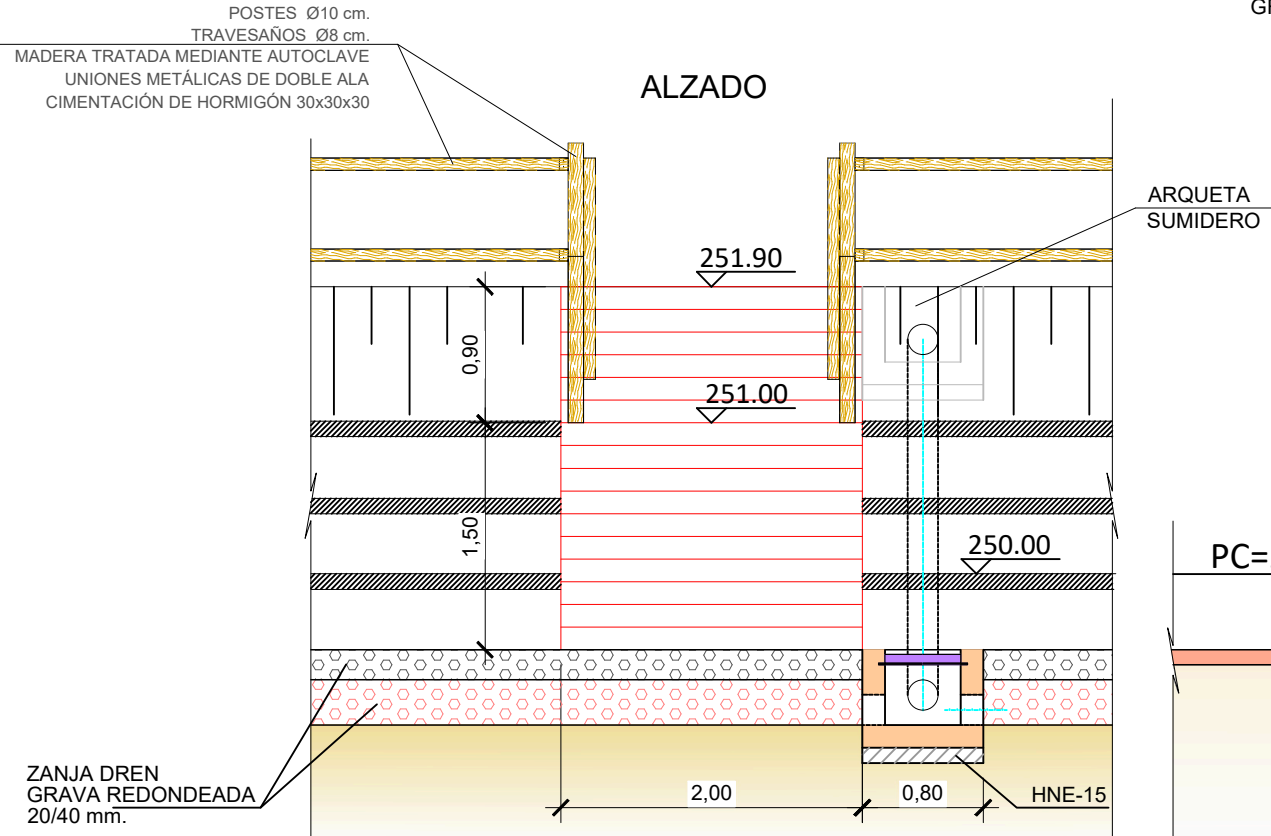
ESCALERA ESTE				
PUNTOS DE REPLANTEO				
A1	X=676474.59	Y=4609711.03	Z=251.90	
A2	X=676474.15	Y=4609709.09	Z=251.90	
A3	X=676467.85	Y=4609710.54	Z=249.50	
A4	X=676468.30	Y=4609712.48	Z=249.50	

PLANTA

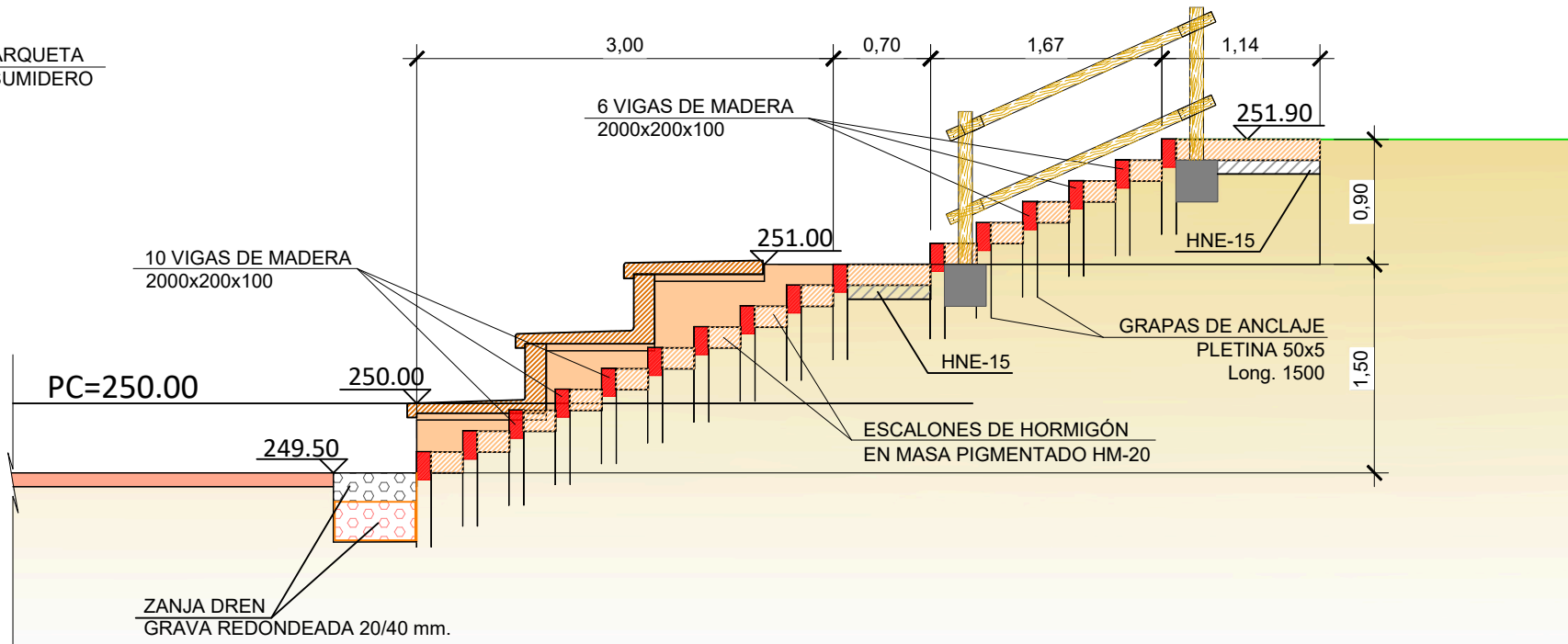


ZANJA DREN GRAVA REDONDEADA 20/40 mm.

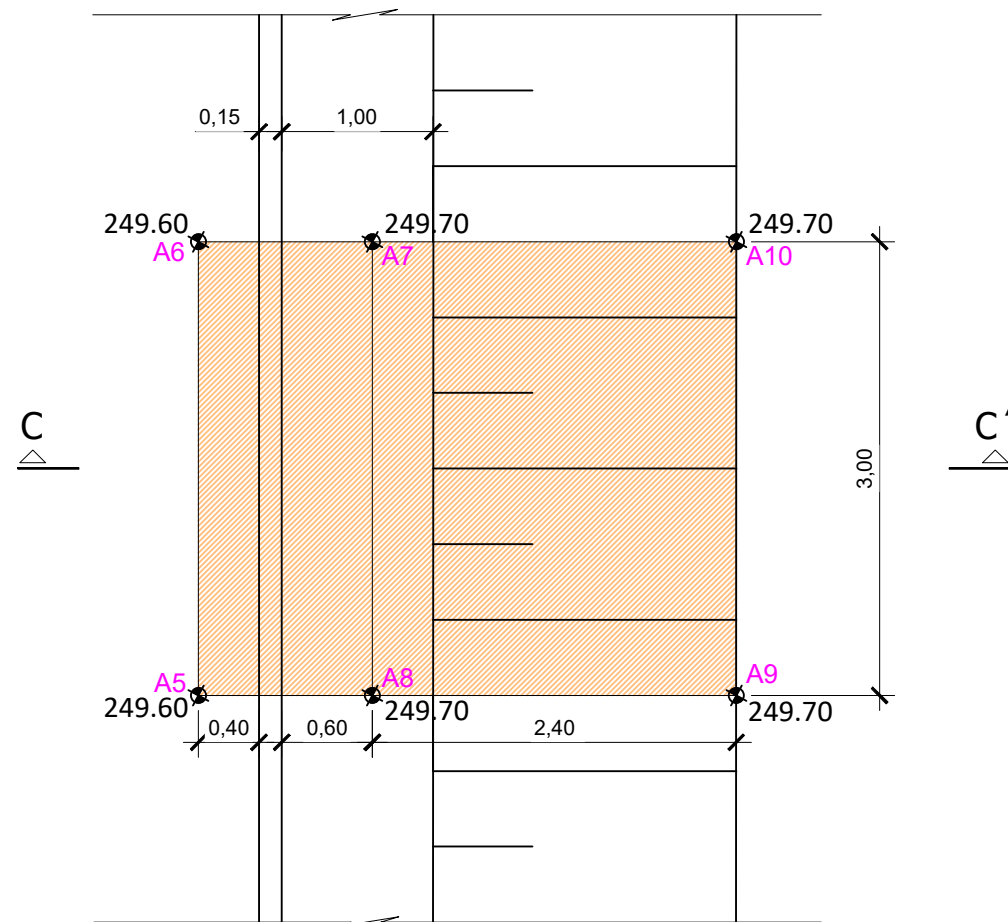
ALZADO



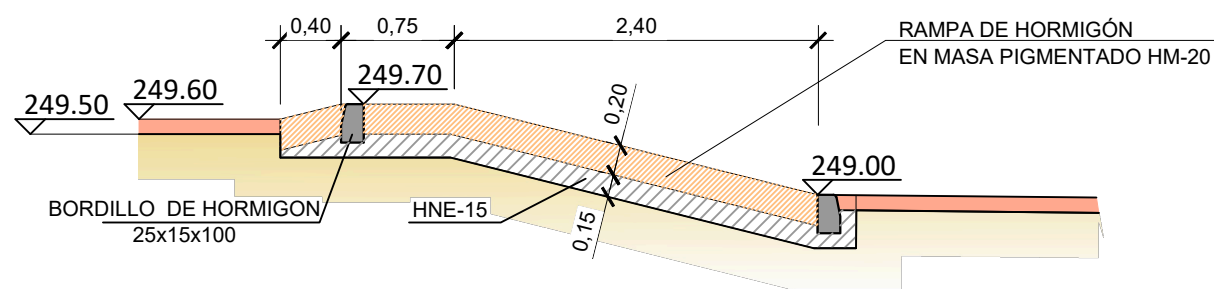
SECCION



RAMPA DE CONEXION EXPLANADAS PLANTA

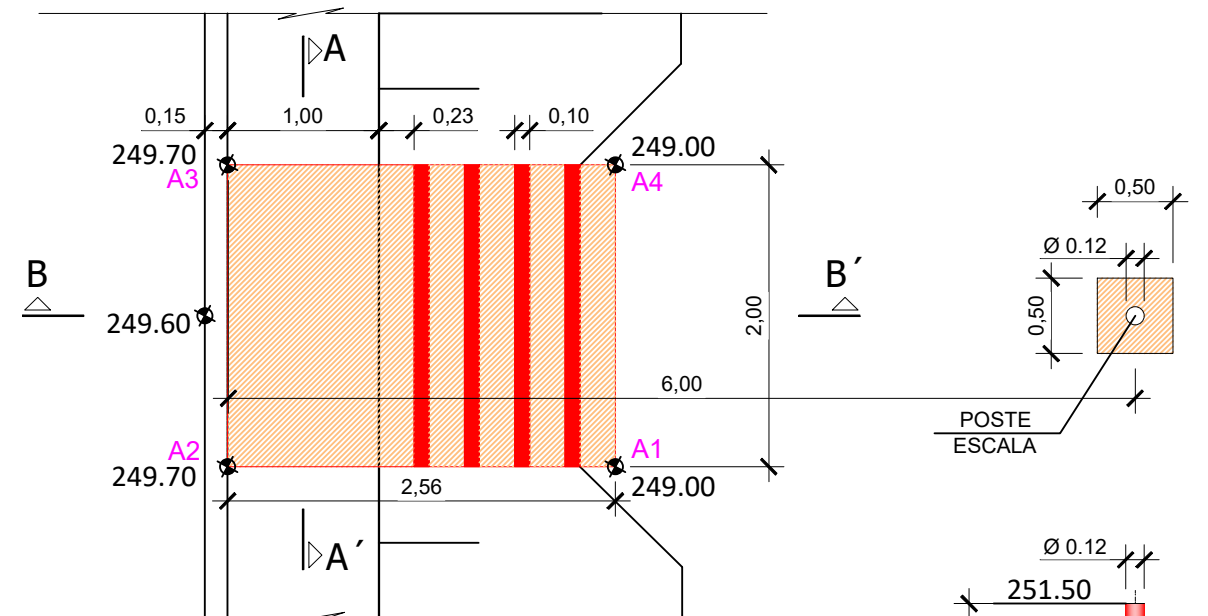


SECCIÓN C-C'

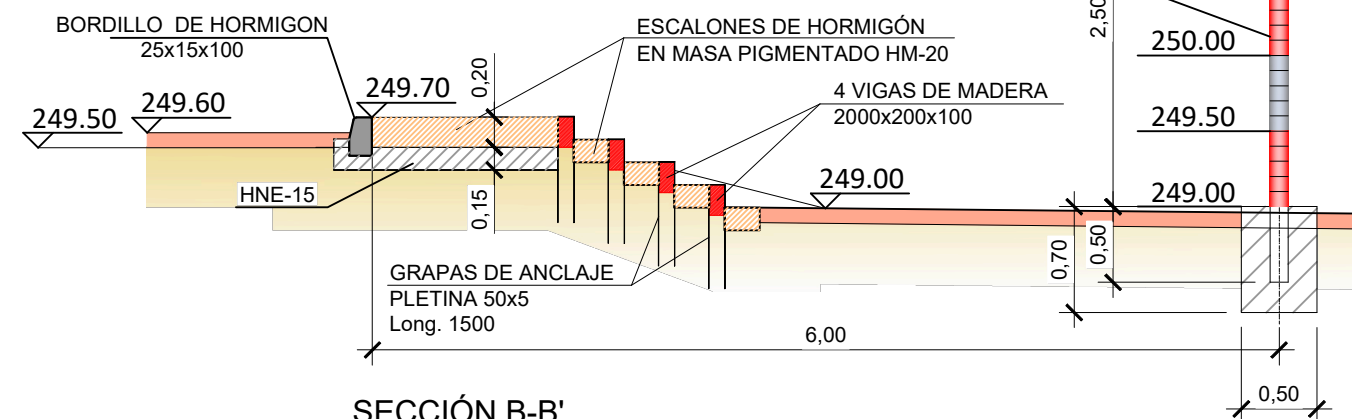


ESCALERA NORTE Y RAMPA			
PUNTOS DE REPLANTEO			
A1	X=676455.91	Y=4609749.77	Z=249.00
A2	X=676455.34	Y=4609747.27	Z=249.70
A3	X=676453.38	Y=4609747.72	Z=249.70
A4	X=676453.97	Y=4609750.21	Z=249.00
A5	X=676444.78	Y=4609749.13	Z=249.60
A6	X=676441.86	Y=4609749.80	Z=249.60
A7	X=676442.13	Y=4609750.92	Z=249.70
A8	X=676445.05	Y=4609750.25	Z=249.70
A9	X=676445.58	Y=4609752.59	Z=249.00
A10	X=676442.68	Y=4609753.25	Z=249.00

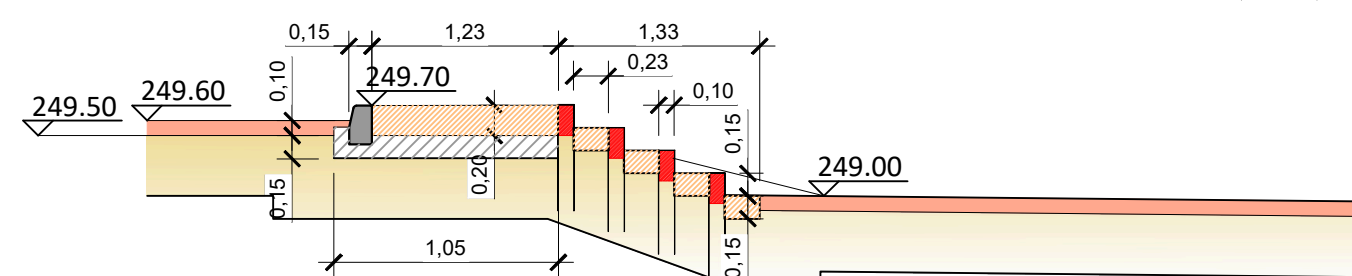
ESCALERA NORTE PLANTA



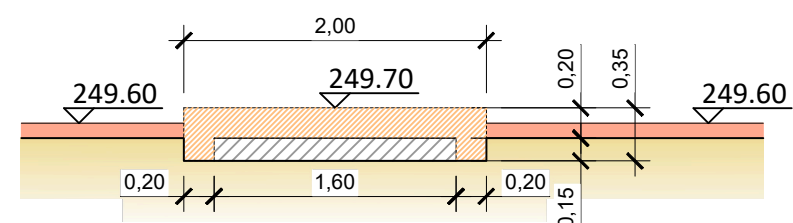
SECCIÓN B-B'



SECCIÓN B-B'

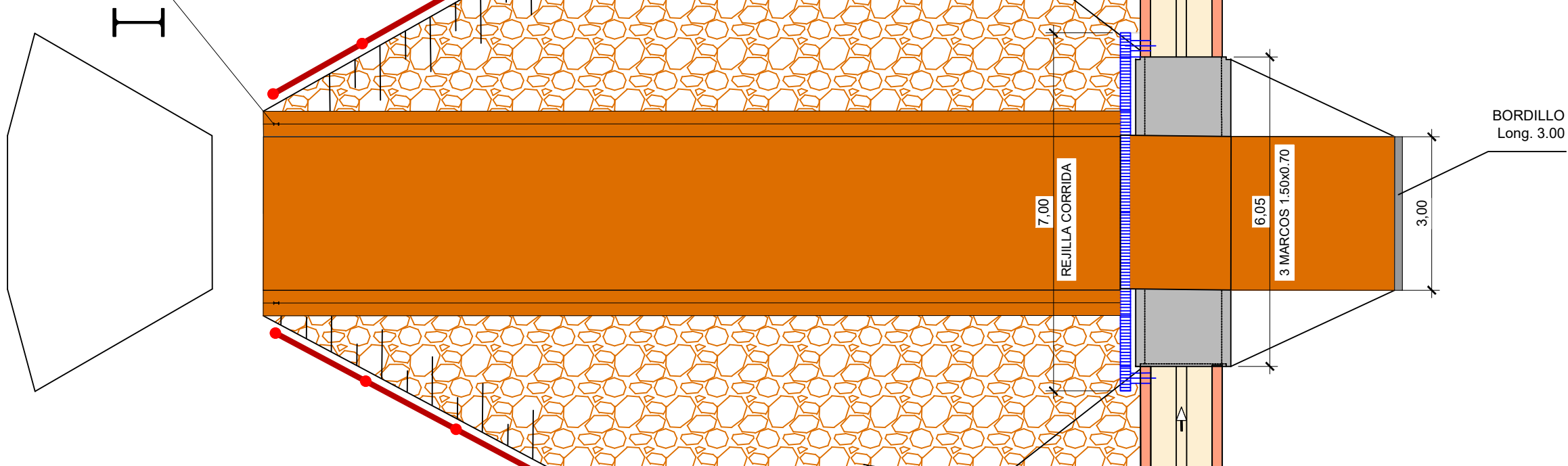


SECCIÓN A-A'

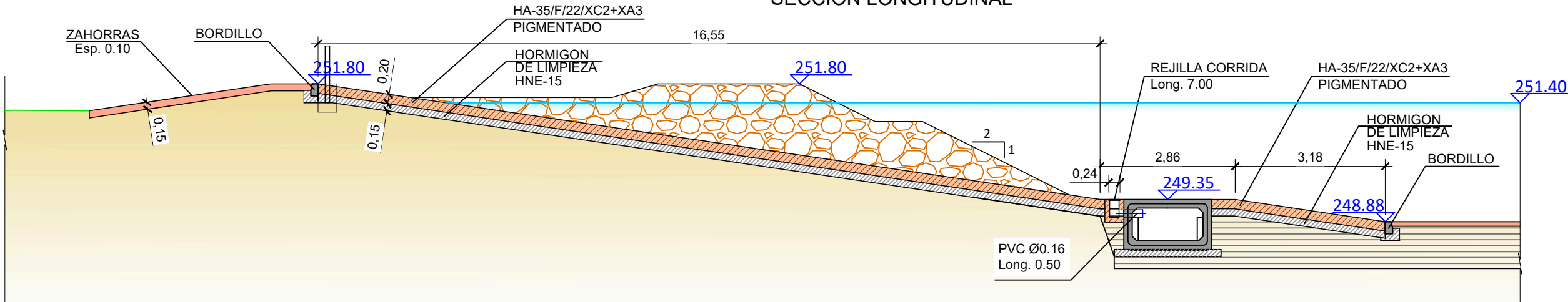


RAMPA DE ACCESO PLANTA

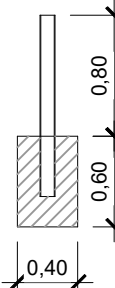
POSTE PERFIL IPE 100 GALVANIZADO
CADENA DE ACERO GALVANIZADO Ø10 mm
CIMENTACION HM 20 DE 0.40x0.40x0.60



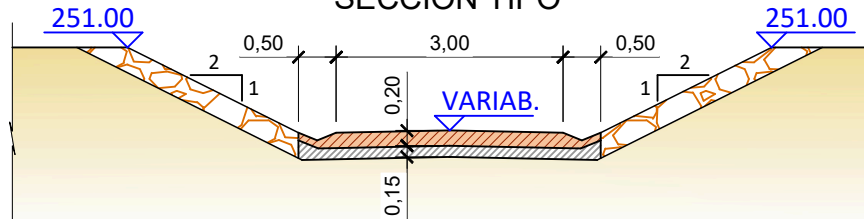
SECCION LONGITUDINAL



POSTE PERFIL IPE 100 GALVANIZADO
CADENA DE ACERO GALVANIZADO Ø10 mm
CIMENTACION HM 20 DE 0.40x0.40x0.60

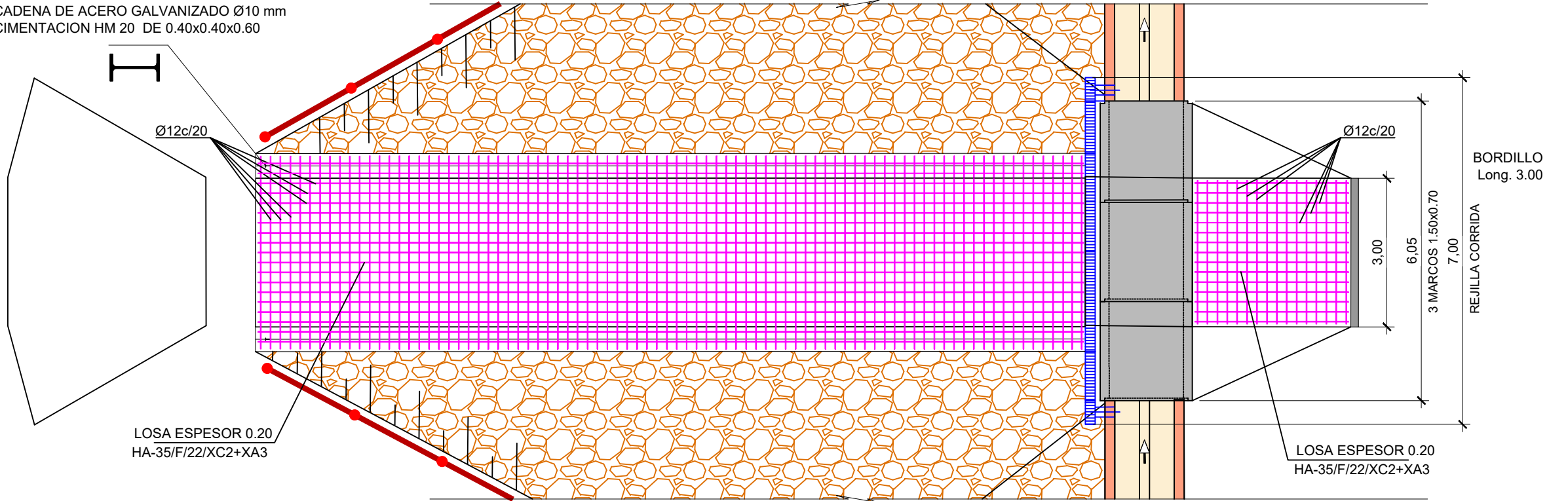


SECCION TIPO

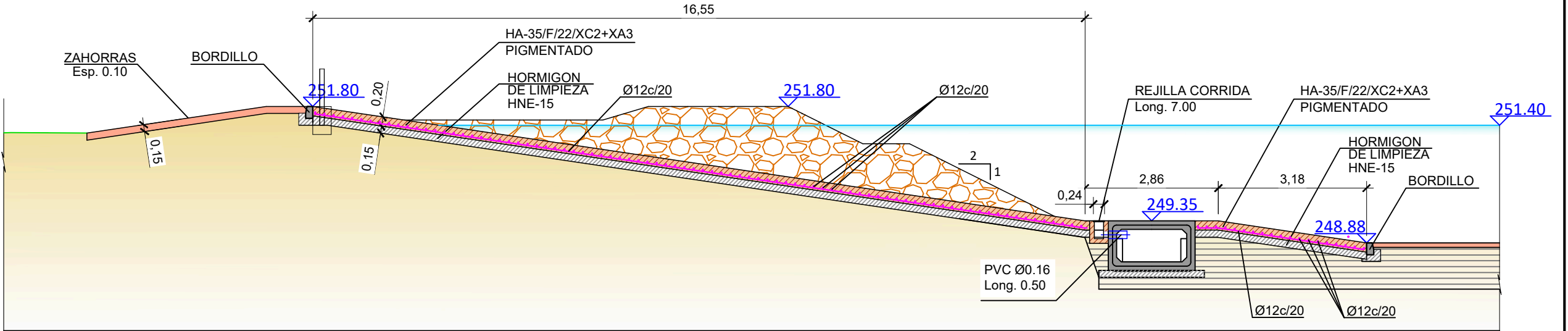


RAMPA DE ACCESO
PLANTA

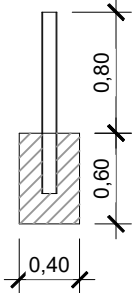
POSTE PERFIL IPE 100 GALVANIZADO
CADENA DE ACERO GALVANIZADO Ø10 mm
CIMENTACION HM 20 DE 0.40x0.40x0.60



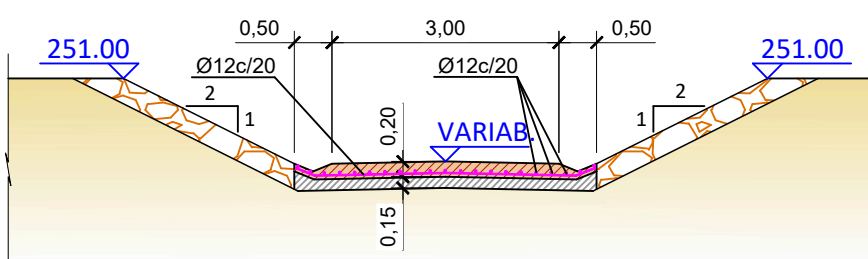
SECCION LONGITUDINAL

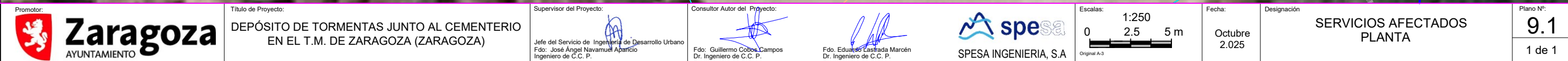


POSTE PERFIL IPE 100 GALVANIZADO
CADENA DE ACERO GALVANIZADO Ø10 mm
CIMENTACION HM 20 DE 0.40x0.40x0.60



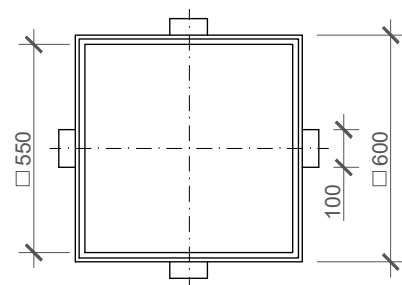
SECCION TIPO





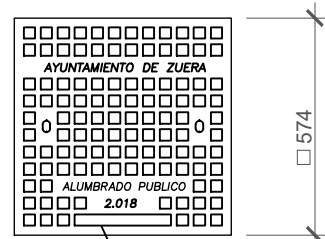
MARCO Y TAPA DE ARQUETA DE 60x60

PLANTA MARCO



COTAS EN mm.

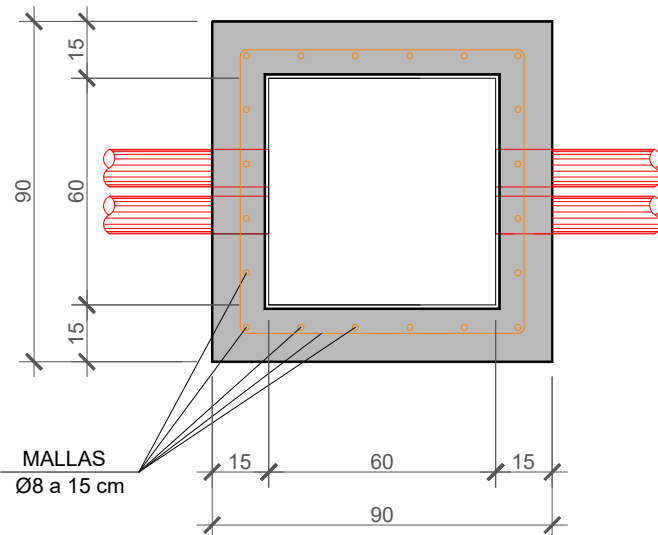
PLANTA TAPA
CARA SUPERIOR



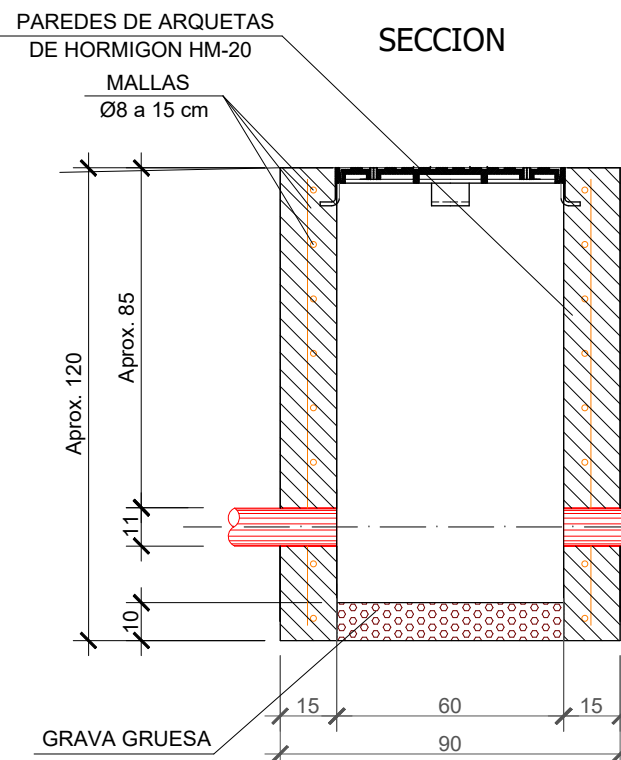
EN 174 CLASES
ORGANIGRAMA
DE CERTIFICACION

ARQUETA DE CRUCE (60x60)

PLANTA

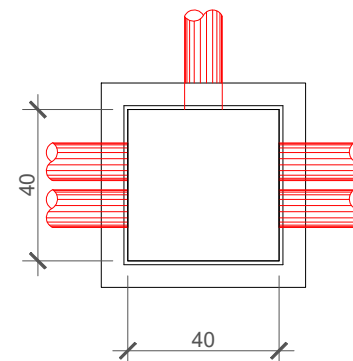


SECCION

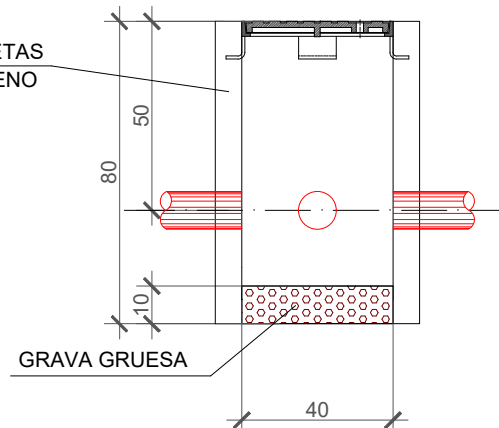


ARQUETA DERIVACION (40x40)

PLANTA



SECCION



NOTAS:

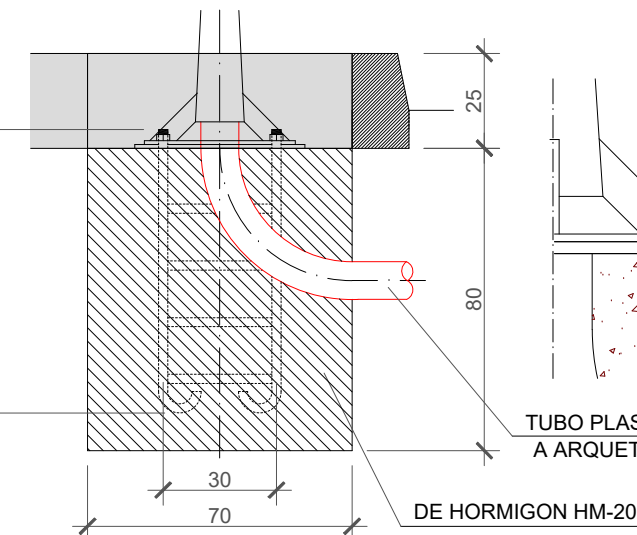
PESO MINIMO TAPA 13.6 Kg.
PESO MINIMO MARCO 6.4 Kg.
CARGA ROTURA 25-Tm.
NORMA EN-124/CLASE C-250
CALIDAD UNE 36-118-73
MATERIAL FGE-42-12
FGE-50-7

NOTAS:

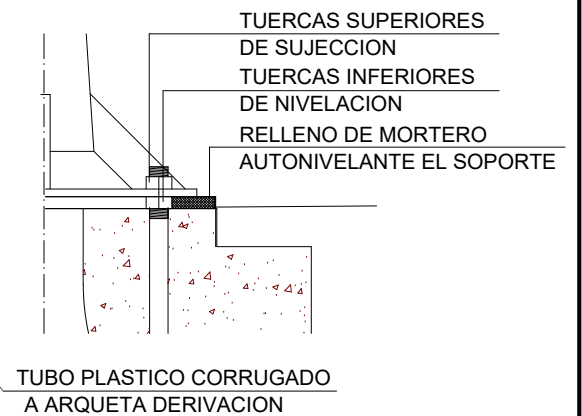
TUBOS PVC-U LISO Ø110 mm. Y 2,7 mm. DE ESPESOR
PN-6 SEGUN UNE-EN-1452
TUBOS DOBLE PARED CORRUGADO EN EXTERIOR
Y LISO EN INTERIOR Ø110 mm.
SEGUN UNE-EN-50086.2.4-N
LOS TUBOS LLEVARAN SEPARADORES DE P.V.C.
CADA 100 cm.

CIMENTACION FAROLA

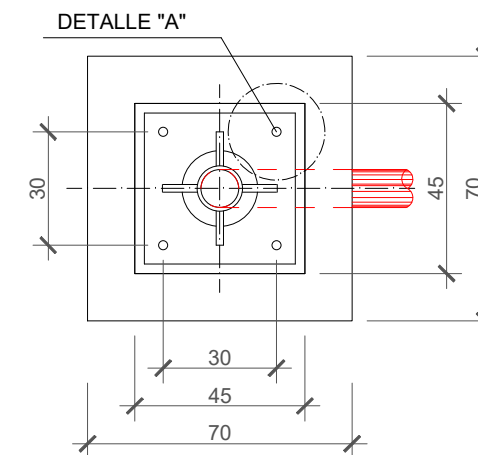
SECCION



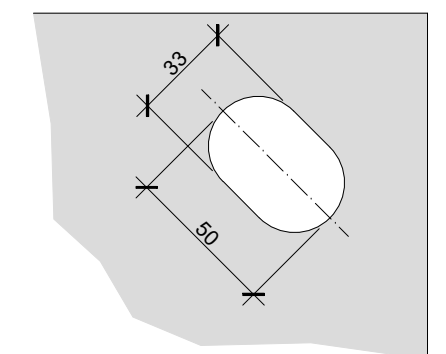
DETALLE NIVELACION
SOPORTES



PLANTA



DETALLE "A"



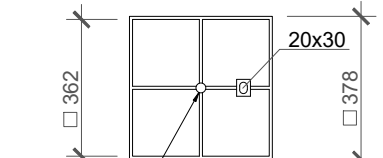
MARCO Y TAPA DE ARQUETA DE 40x40

PLANTA TAPA
CARA SUPERIOR



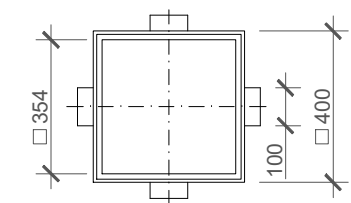
COTAS EN mm.

PLANTA TAPA
CARA INTERIOR

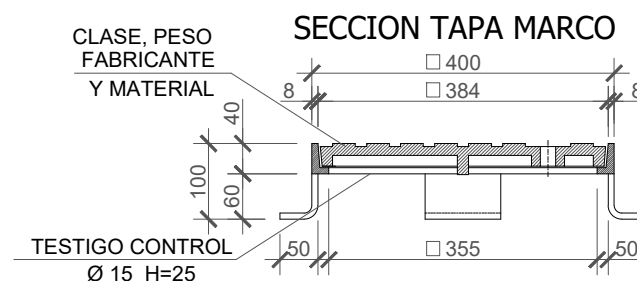


TESTIGO
CONTROL

PLANTA MARCO



SECCION TAPA MARCO



POZO RECORTADO

