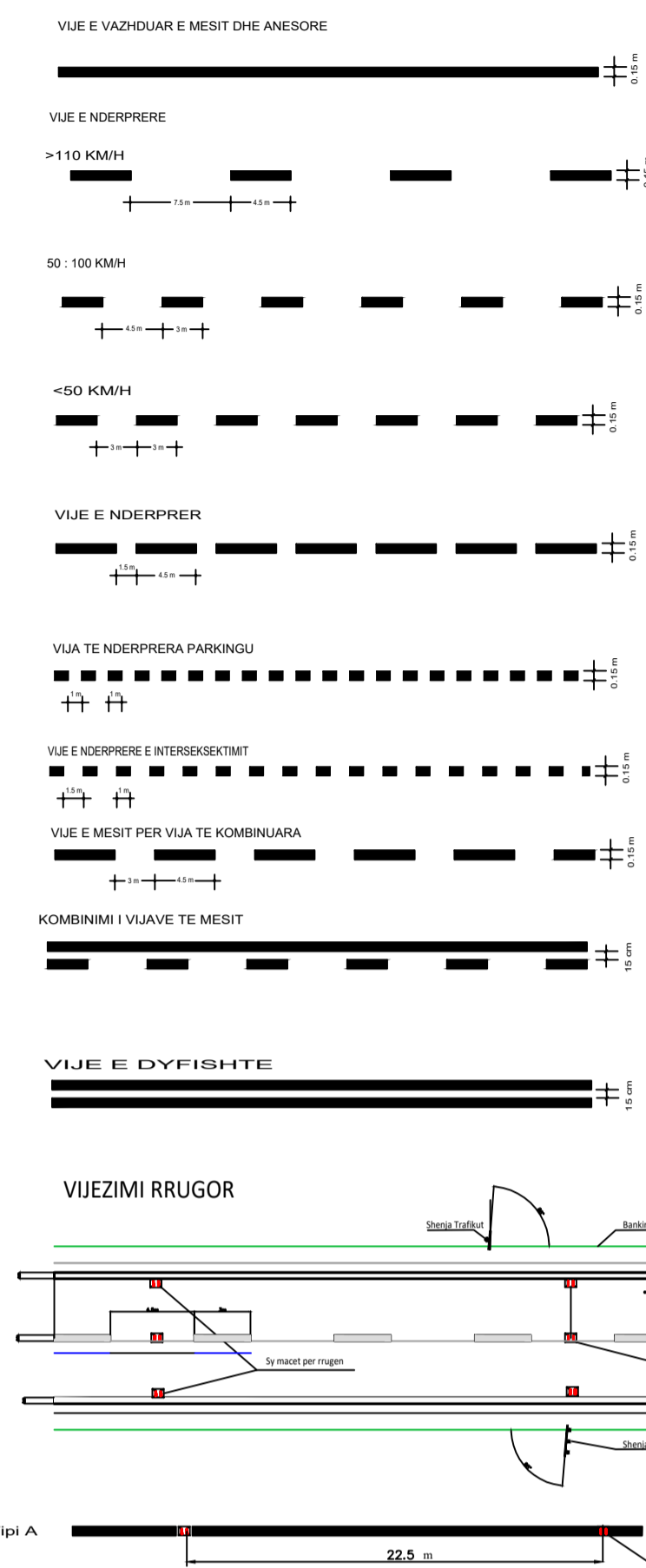
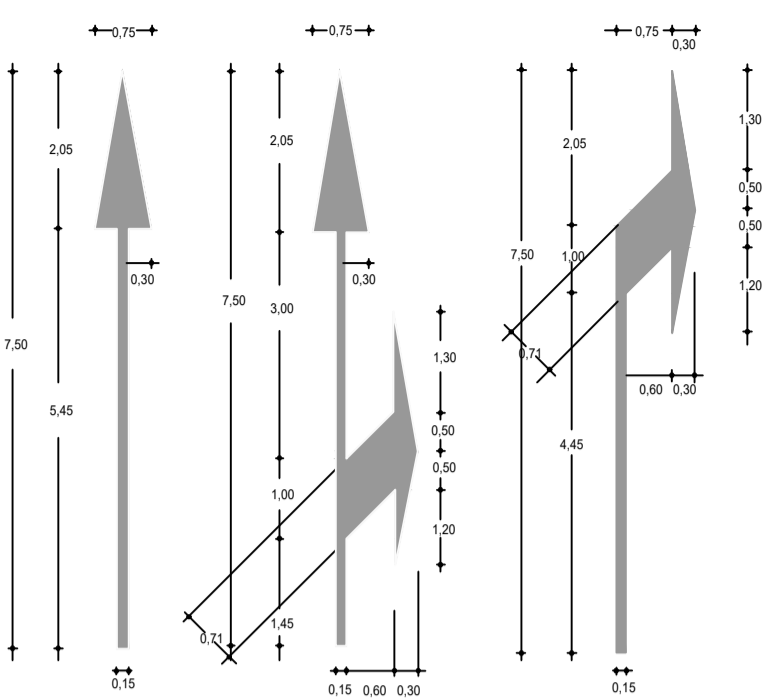


TIPET E VIJAVE
TYPE OF LINE MARKINGS



Shigjeta te Rrugës
TYPE OF ARROWS



VIZIMET E SHEVRONEVE
CHEVRON MARKINGS

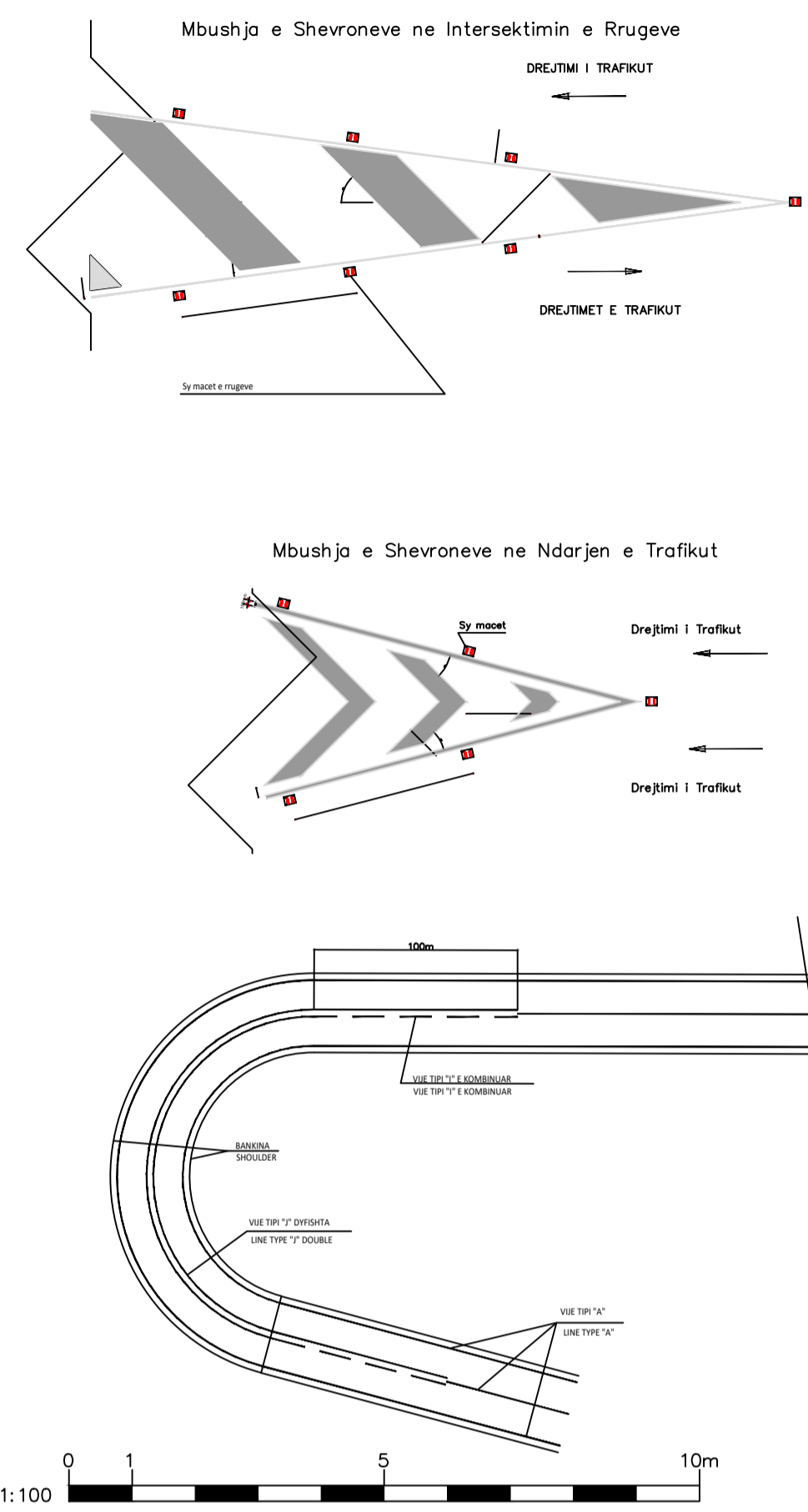
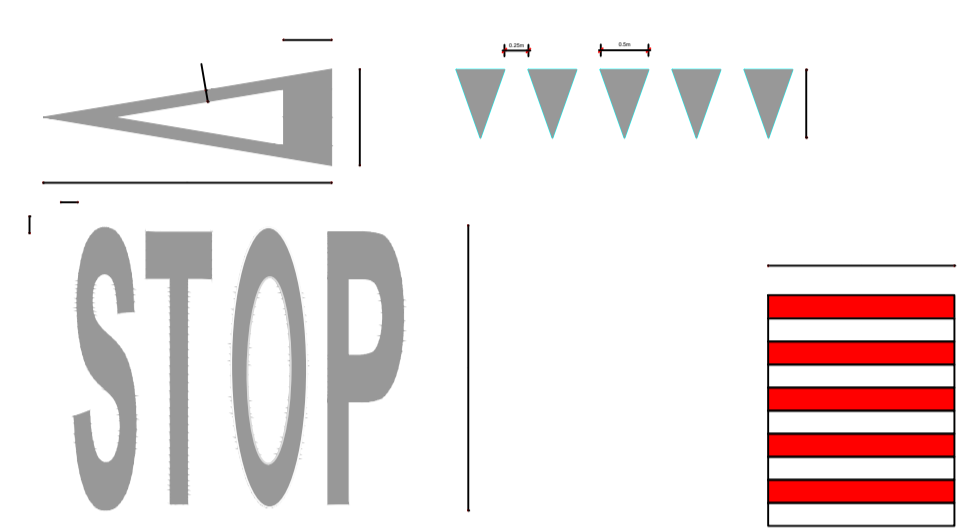


Tabela E PERPARESISE PRIORITY TABLES



Sherime:

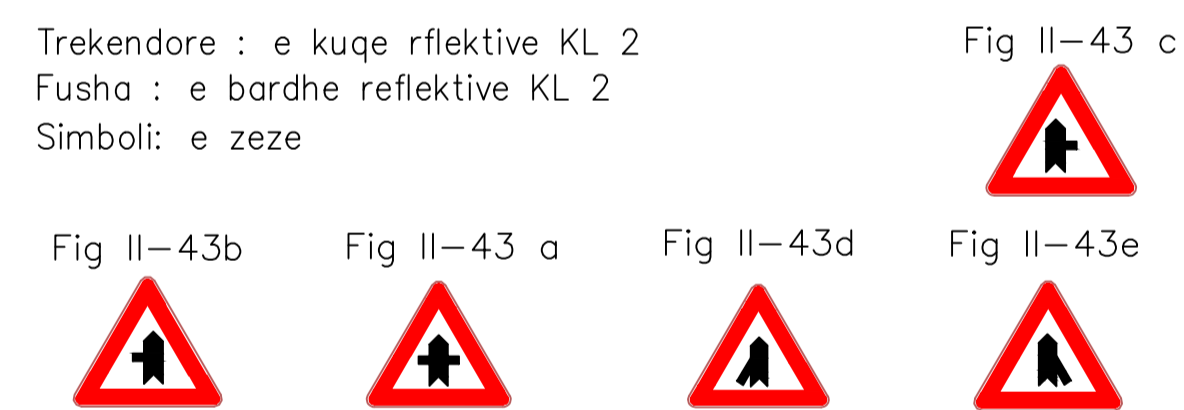
- Perpara vendosjes se sinjalistikes projekti te konsultohet me autoritetin e pushtetit lokal dhe policine rrugore.
- Shtresat asfaltike te rruges do te realizohen me ashpersi $0.4 \leq HS \leq 0.8$ thelesi maksimale te makrostruktures $1.2 \pm 1.5mm$ dhe fortesim te materialit granular $LS \leq 20\%$ (shih specifikimet teknike).
- Vijeziomet do te realizohen me boje si ne projektin e sinjalistikes. Tipologjia e vijave te shihet ne fletet e seksioneve tip funksional se bashku me fletet e detajeve te sinjalistikes.
- Sinjalistika vertikale te pozicionohet ne perputhje me projektin dhe specifikimet ne manualin e rrugeve dhe kodin rrugor, dhe (Rregulli teknik per projektimit te rrugeve , RrTPR-6, Vellimi 6.
- Te shihet projekti i sinjalistikes se rruges dhe per cdo mosperputhje, te konsultohet me projektuesin.

Notes:

- Before deciding on the signage, the project should be consulted with the authority of the local government and the traffic police.
- The asphalt layers of the road will be made with a hardness of $0.4 \leq HS \leq 0.8$, a maximum macrostructure depth of $1.2 \pm 1.5mm$ and reinforcement of the granular material $LS \leq 20\%$ (see technical specifications).
- The markings will be made with paint as in the signage project. The typology of the lines can be seen in the drawings sheets of the cross sections functional type together with the detail drawing sheets of the markings.
- Vertical signage should be positioned in accordance with the project and specifications in the road manual and road code, and (Technical rule for road design, RrTPR-6, Volume 6.
- To see the street signage project and for any discrepancy, should be consulted with the designer.

SINJALET E RREZIKUT/DANGER SIGNALS

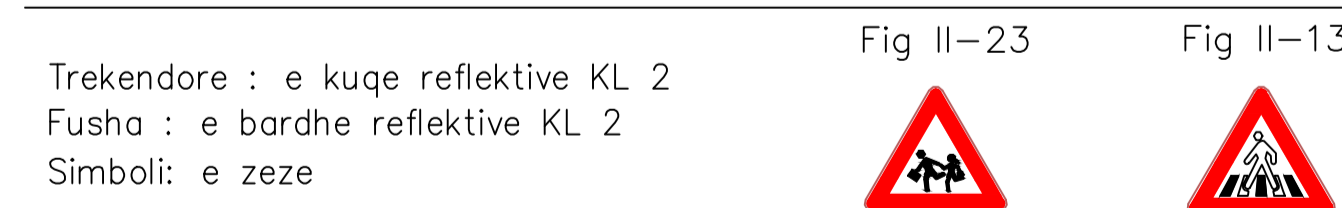
Sinjalët e rrezikut ne intesektimin me rruget dytesore



Sinjalët rreziku ne kthese Kthese e dyfishte

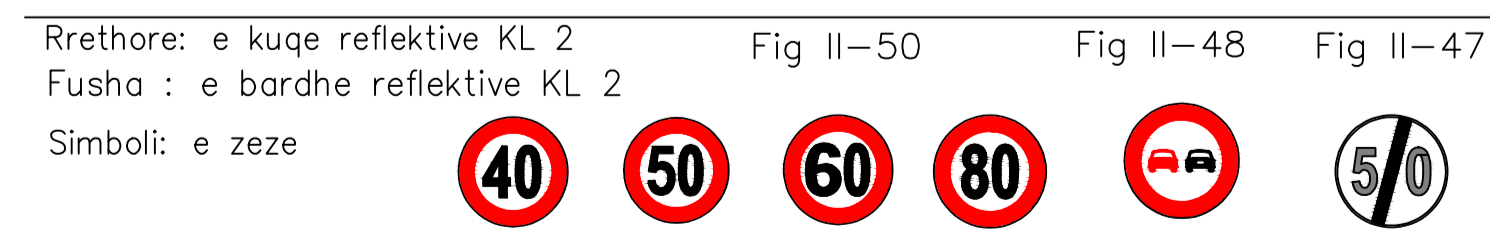


Sinjalët rreziku kembesore dhe femije



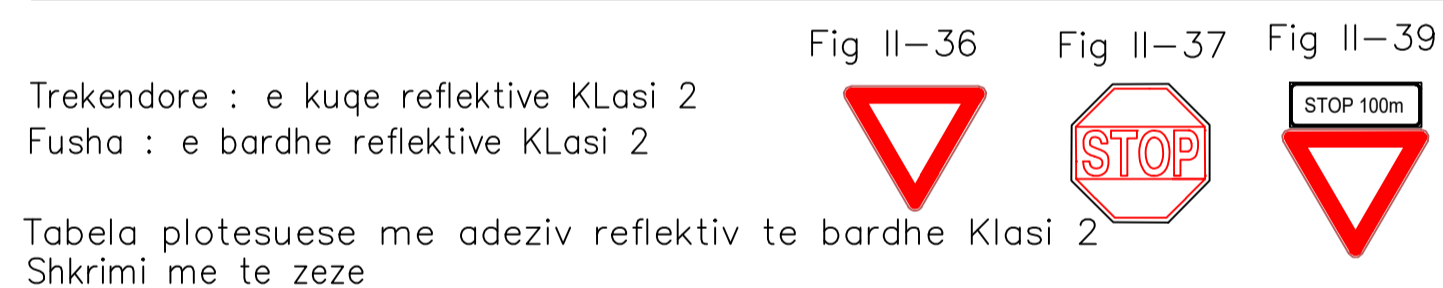
SINJALET E NDALIMIT/STOP SIGNALS

Kufizim Shpejtesie dhe Ndalim Parakalimi



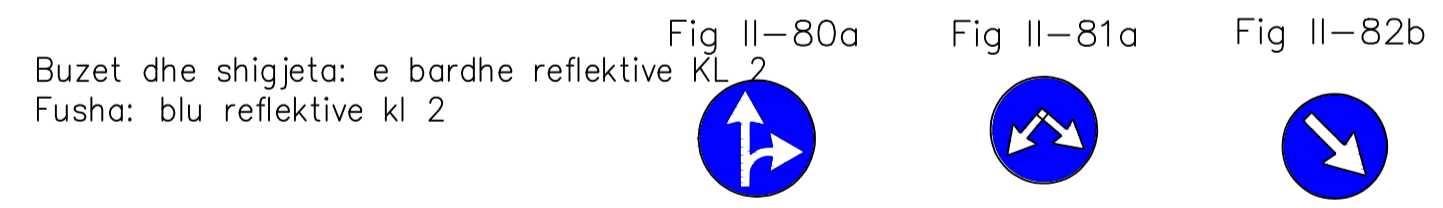
SINJALET E PERPARESISE/Priority SIGNALS

Tabela e perparësise Stope dhe jep perparësi



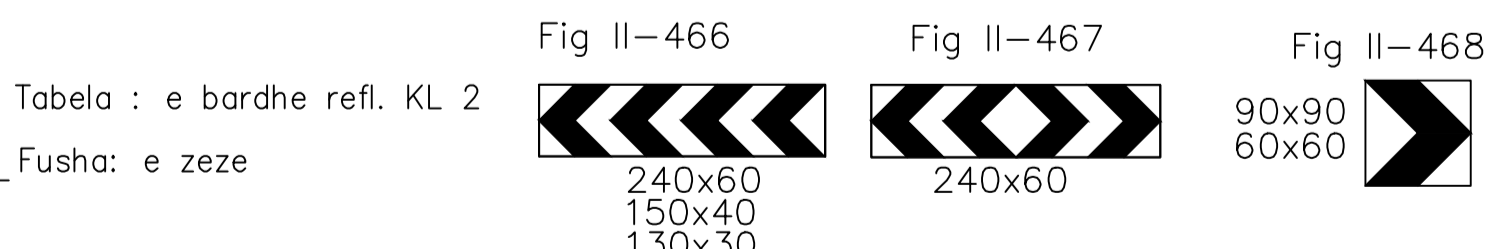
SINJALET E DETYRUESHME/MANDATORY SIGNALS

Tabela e detyrueshme

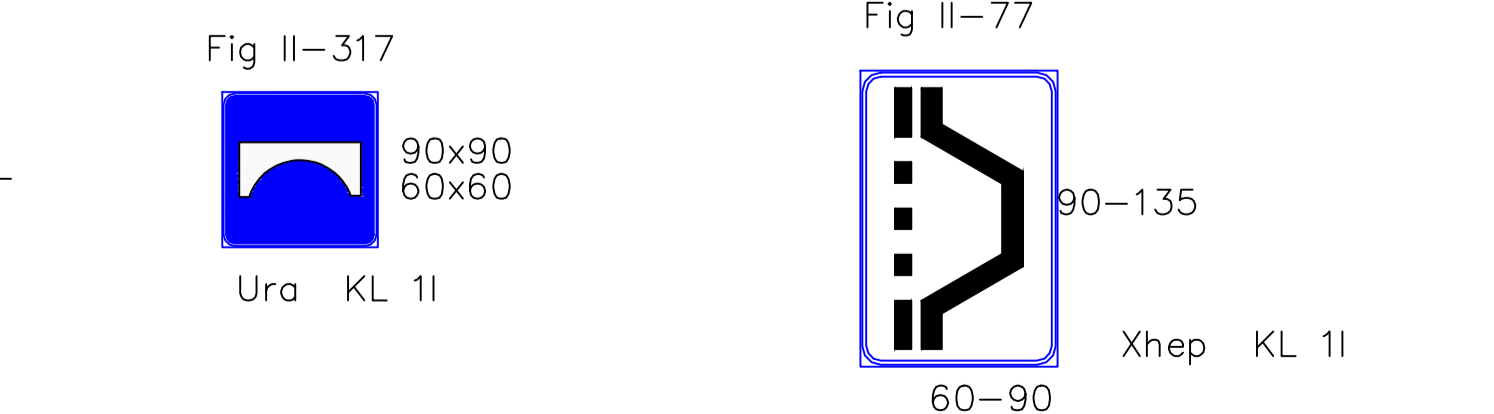


SINJALET PLOTESUSES/COMPLEMENTARY SIGNALS

Tabela Shevron me nje drejtim dhe me dy drejtime



SINJALET INFORMUESE/INFORMATION SIGNALS



Rev.	First Edition	DQ	DQ	ES	01-06-2023
Rev.	Description/Përshkrim	Drawn/Të vizatuar	Checked/Kontrolluar	Approved/ Miratuar	Date/ Data
Client/Porositës: DURRËS PORT AUTHORITY Autoriteti Portual Durrës AUTORITETI PORTUAL DURRËS		Design Object/Objekt projektimit: Road Design Phase 1 Initial Projekti i Rrugës Faza 1 Filltare			
Project/Projekt: Integrated Port of Durrës in Porto Romano Porti i Integruar i Durrësit në Porto Romano		Discipline/Disiplinë: Road Infrastructure / Infrastruktura e Rrugës			
Title/Titull: TYPE OF LINE MARKINGS AND SIGNAL TABLES LLOJET E VIJEZIMIT DHE TABELAVE TE SINJALISTIKËS		Revision/Rishkrim: 01			
Size/Përa	Scale/Shkalla	Phase/Faza	Sheetno./ Nr. i fletës	of nga	Drawing Number/Numri i vizatimit
A1	NOT IN SCALE	Detailed Design	07	08	BH1884-ABK-04-RW-DP-RM-2007

VENDOSJA DHE MONTIMI I SHENJES RRUGORE
PLACEMENT AND ASSEMBLY OF THE ROAD SIGN

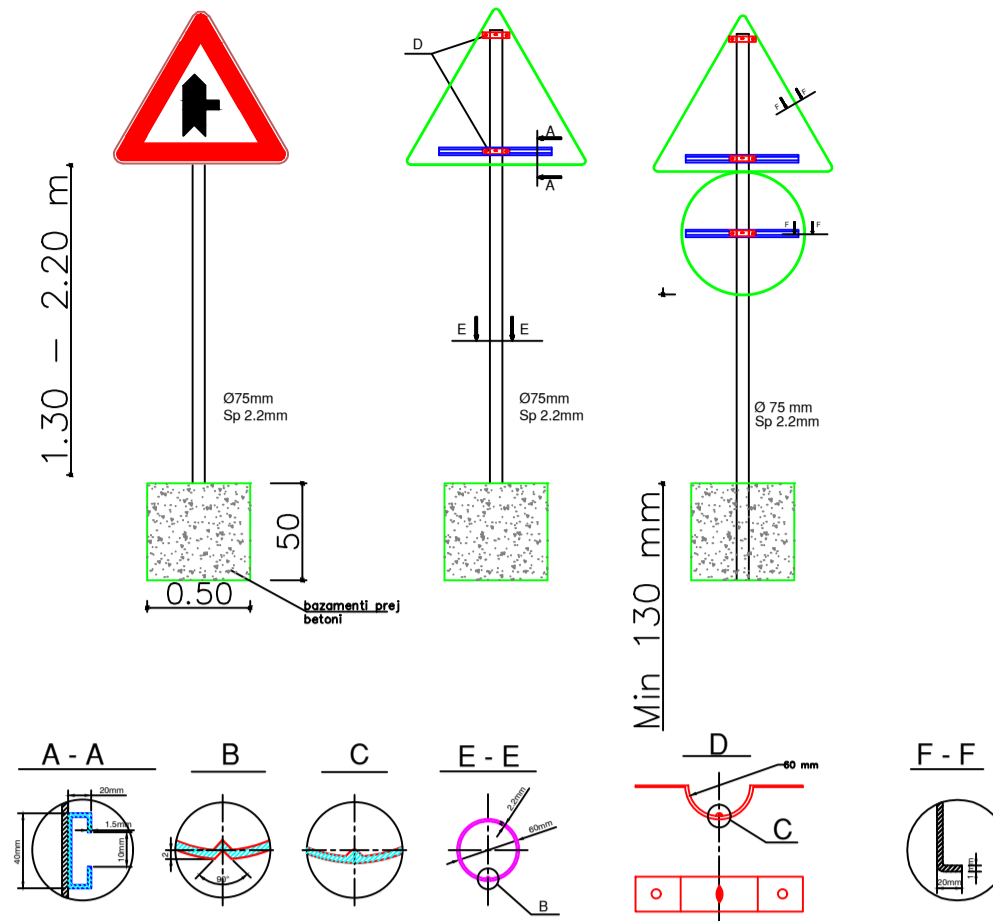
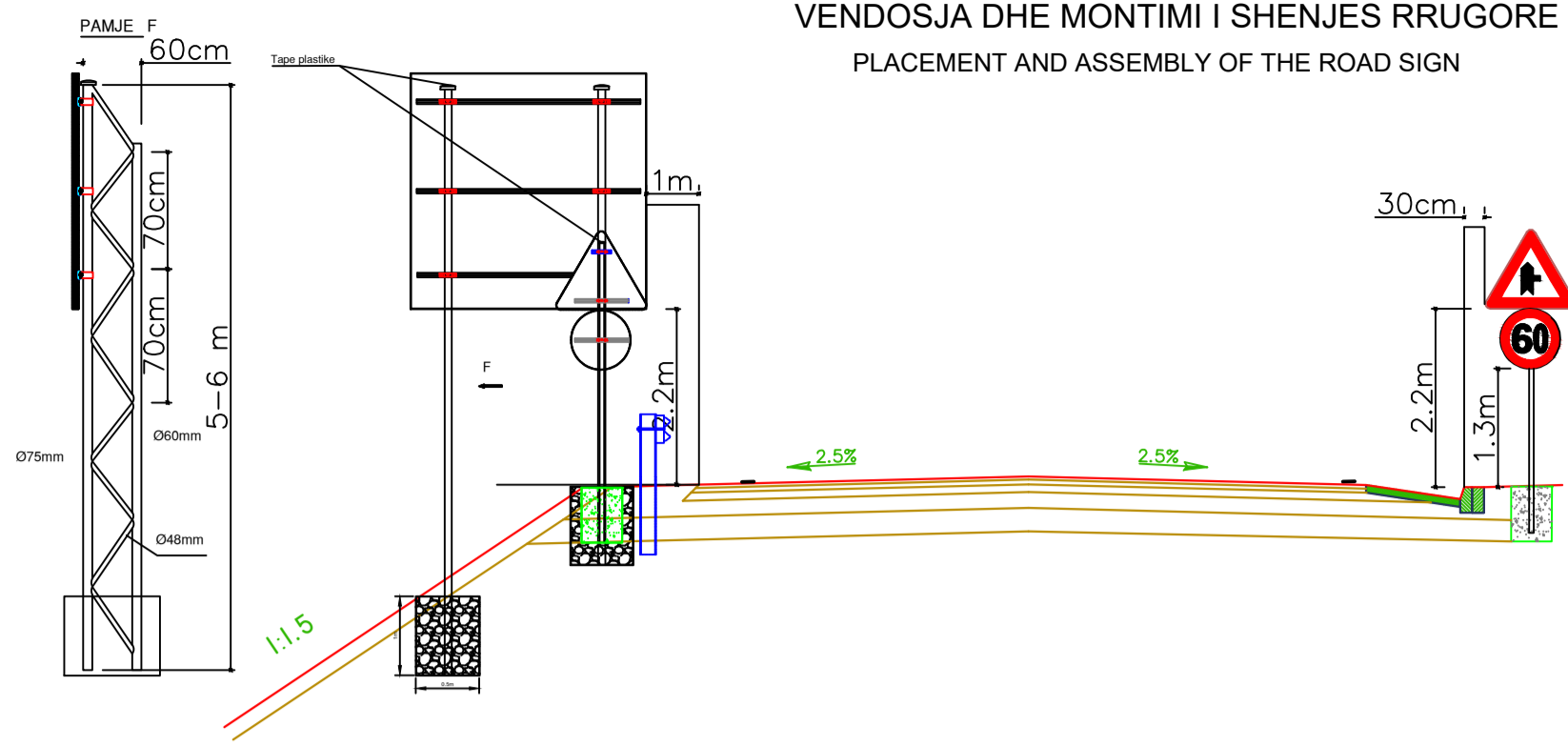


TABLE DIMENSIONS
DIMENSIONET E TABELAVE

A C E R	C D E	A C E D	A B C R
120 1.8 12 6	1 90 9	90 30 3 75	90 0.5 1 3.5
90 1.5 8 4.5	1 60 7.5	60 20 2 50	60 0.5 1 3.5
A B C D R	C D E H	C D	A B C D R
90 135 1.6 08 7	3 1.5 22 70 250 31.5 27 14 23 2 11.5 60	1.5 90	105 05 1 35 4
	Te Vogla 1.5 1 22 40 150 18 15.5 8 13 2 6.5 38	Te Vogla 1 60	80 0.4 0.8 27 3

tabele informative
Adeziv Reflektiv Diamond Grade

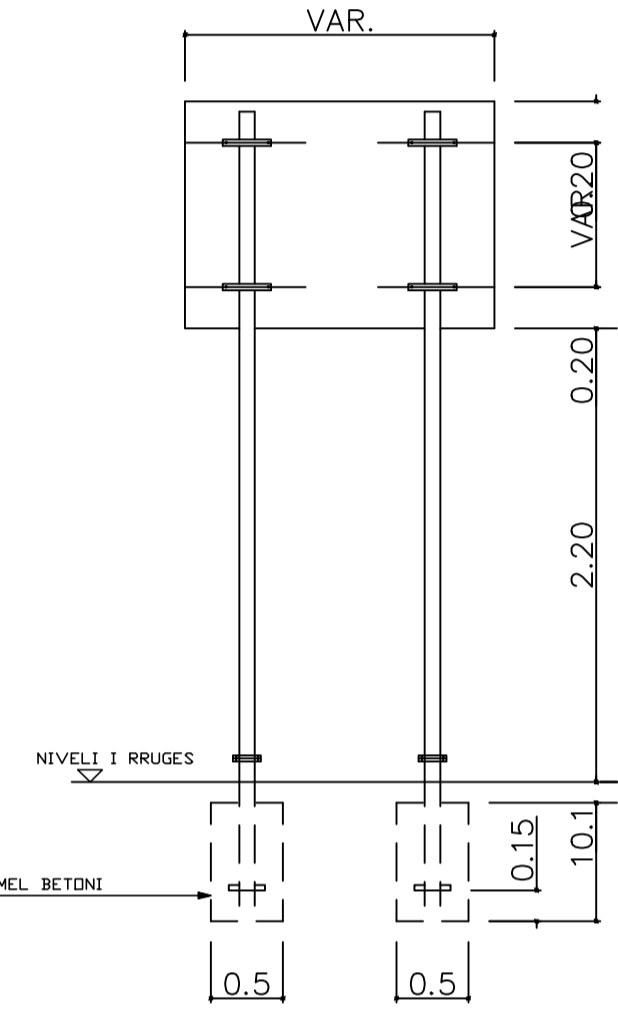
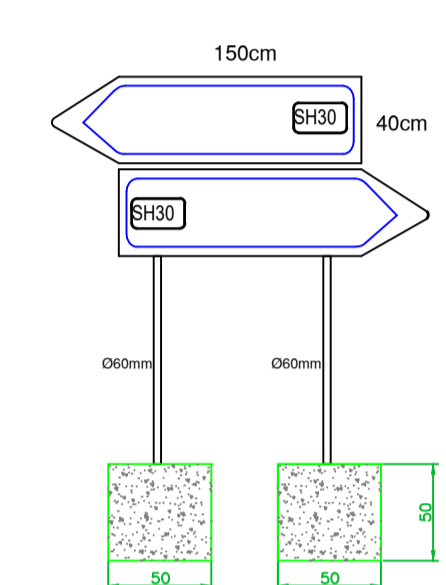
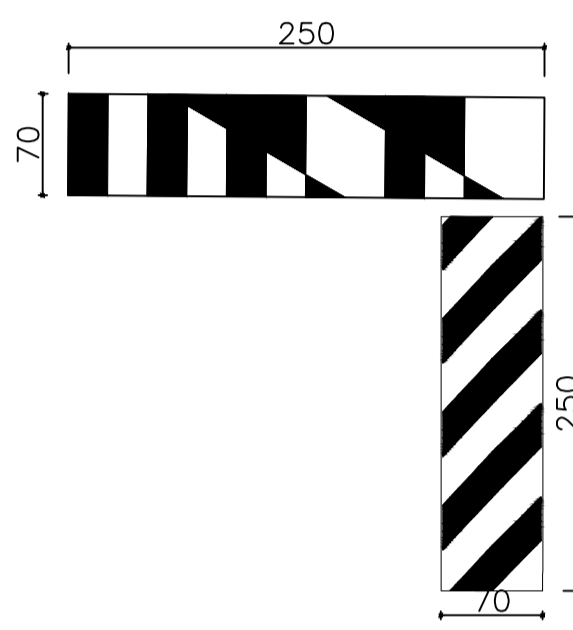
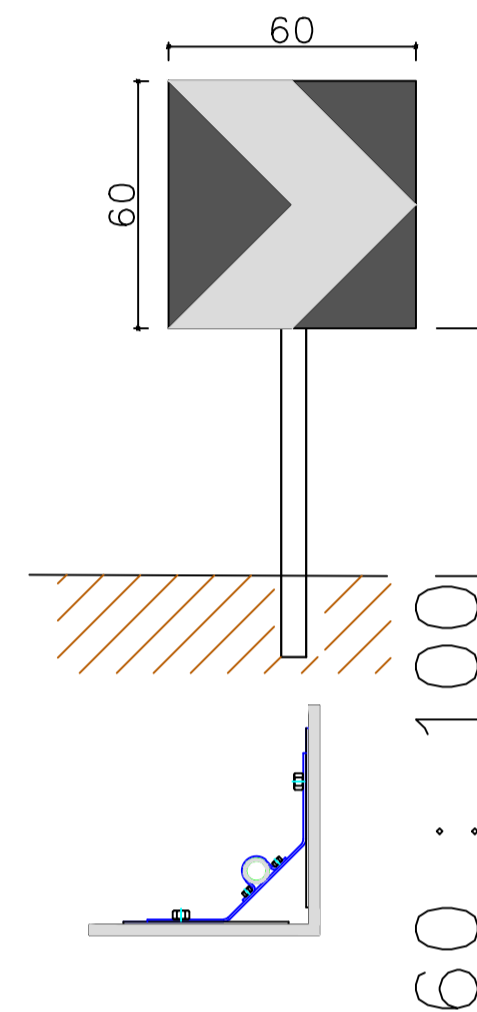
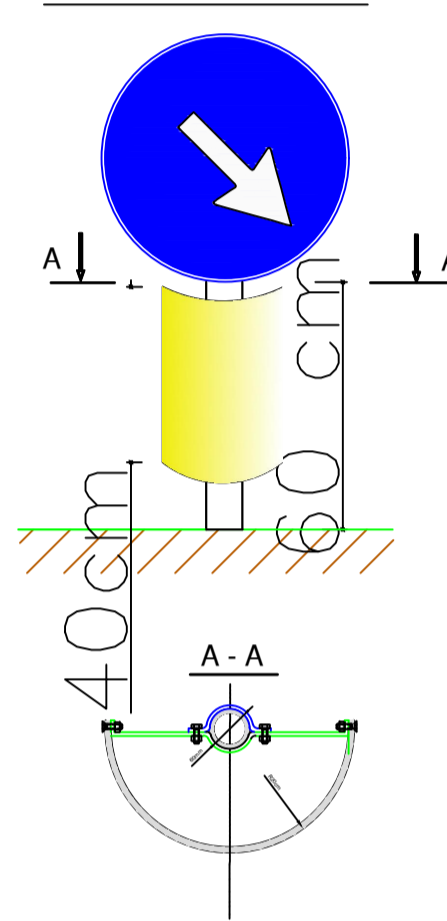


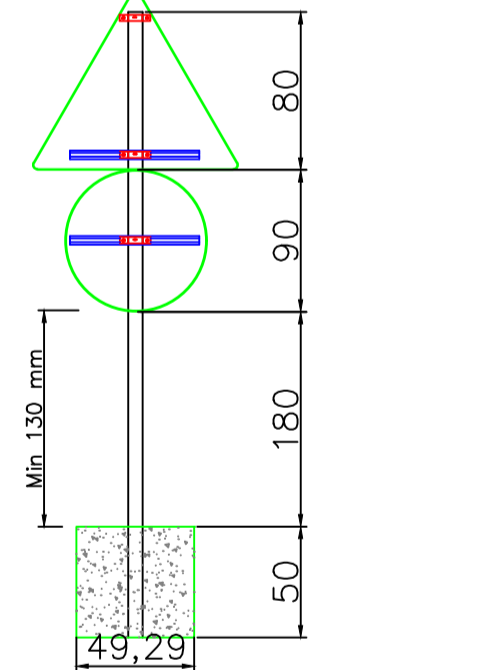
Tabela Shevron Chevron table
Kthese e forte Strong turn

TRAFFIC ISLAND
Ishullor Trafiku

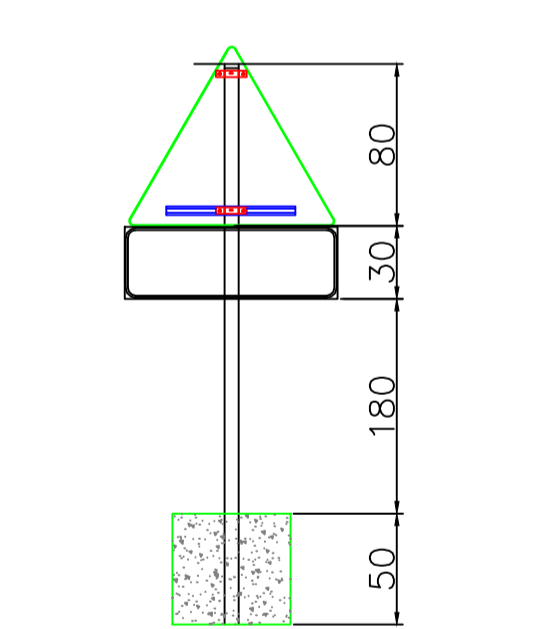


PLACEMENT AND ASSEMBLY OF THE ROAD SIGN
VENDOSJA DHE MONTIMI I SHENJES RRUGORE

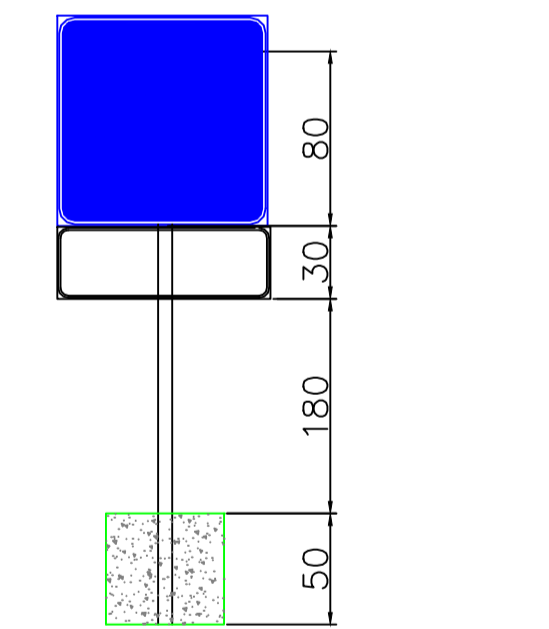
Ø 90 mm - 4 ml



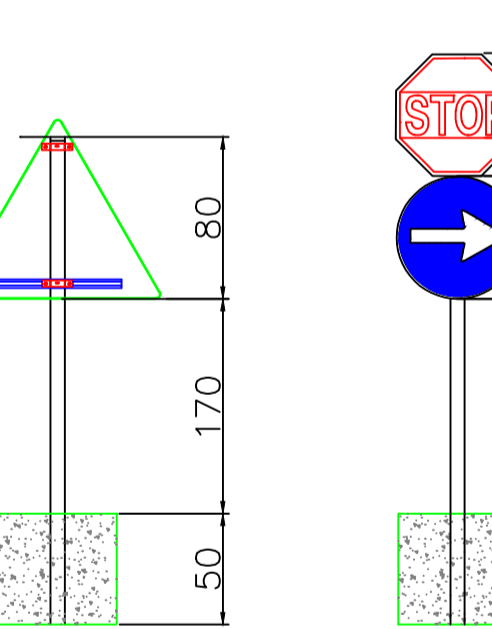
Ø 75 mm - 3.4 ml



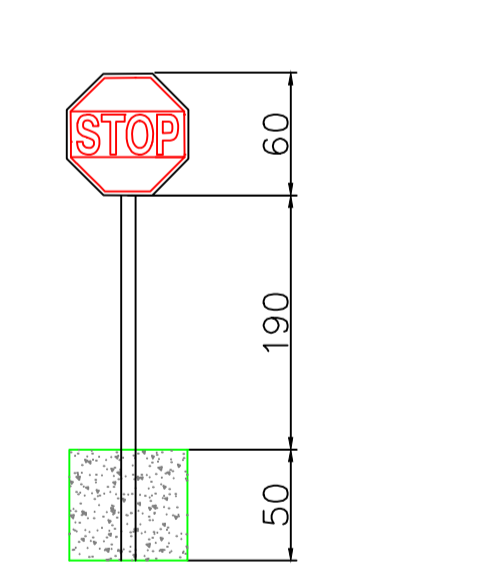
Ø 75 mm - 3.4 ml



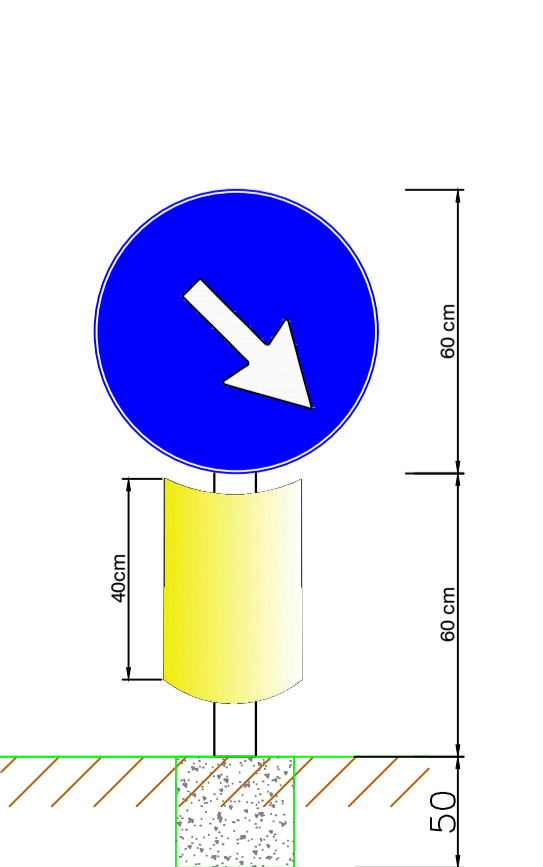
Ø 75 mm - 3 ml



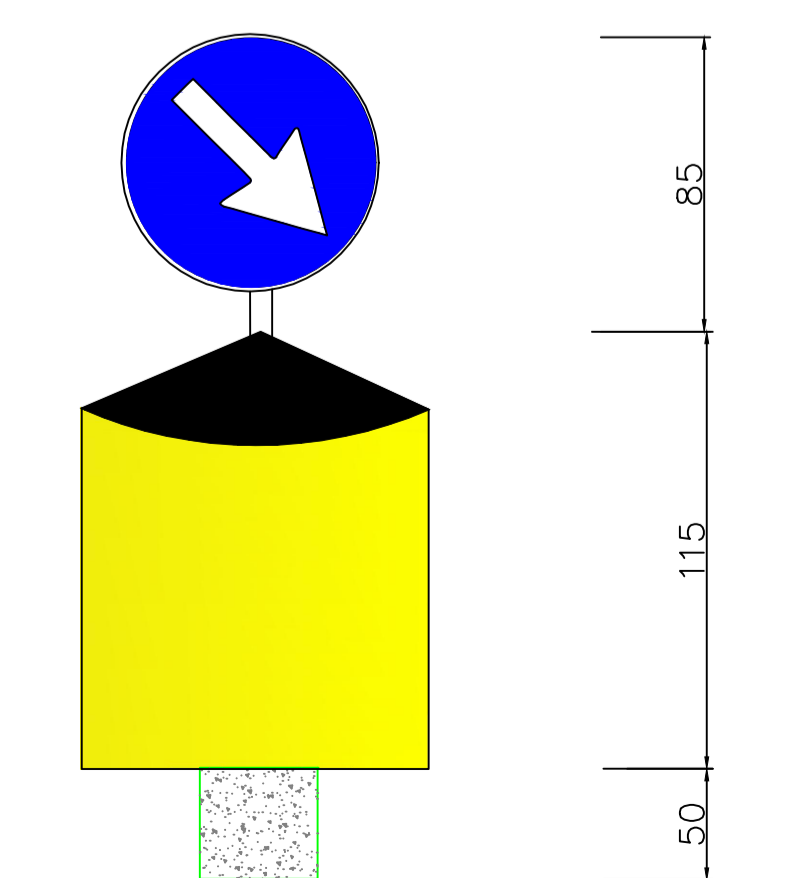
Ø 60 mm - 3 ml



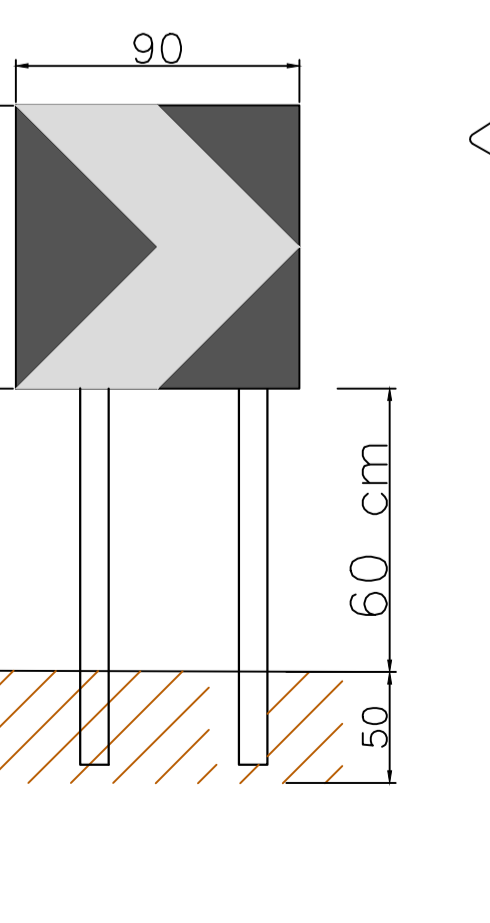
Ø 60 mm - 1.7 ml



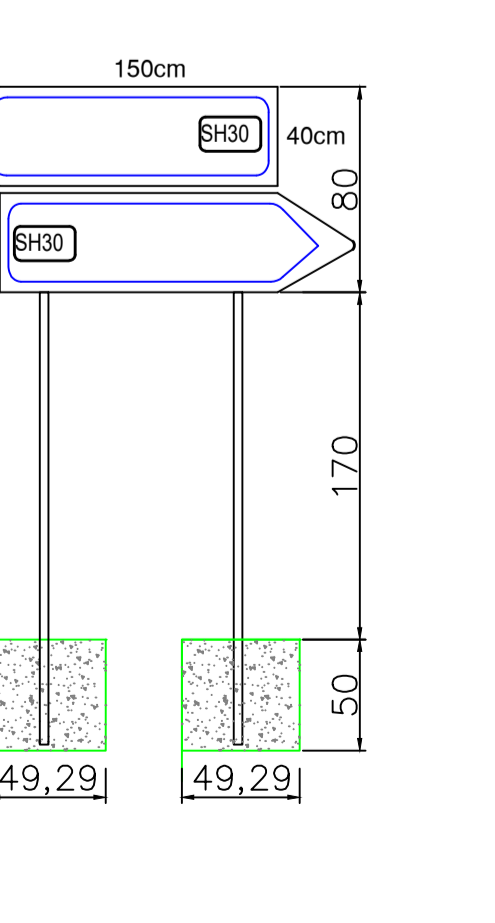
Konstruksion - 1.5x2.5 ml



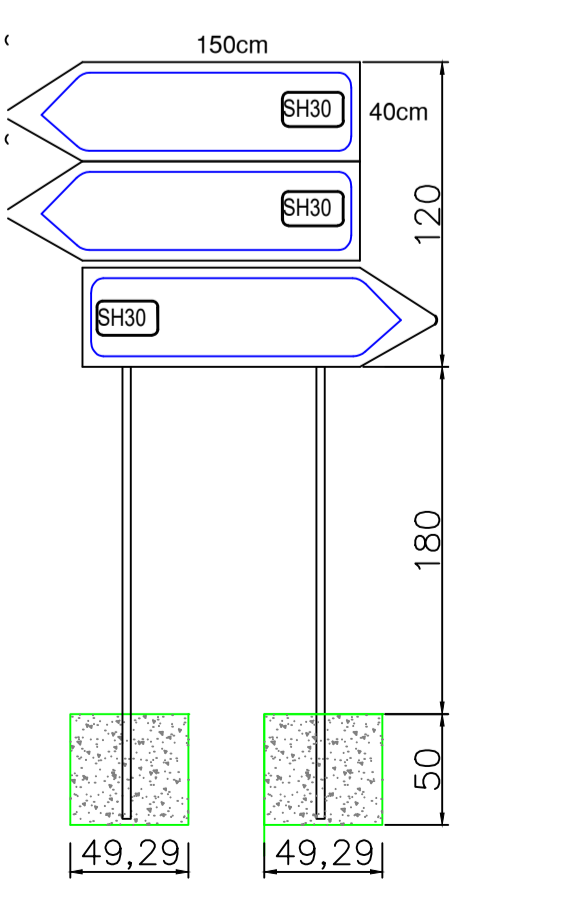
Ø 60 mm - 2 ml



Ø 60 mm - 3 ml



Ø 60 mm - 3.5 ml



Shenime:

- Perpara vendosjes se sinjalistikes projekti te konsultohet me autoritetin e pushtetit lokal dhe policine rrugore.
- Shtresat asfaltike te rruges do te realizohen me ashpersi $0.4 \leq HS \leq 0.8$ thellesi maksimale te makrostruktures $1.2 \pm 1.5 \text{ mm}$ dhe fortesim te materialit granular $LS \leq 20\%$ (shih specifikimet teknike).
- Vijeizimet do te realizohen me boje si ne projektin e sinjalistikes. Tipologjia e vijave te shihet ne fletet e seksioneve tip funksional se bashku me fletet e detajeve te sinjalistikes.
- Sinjalistika vertikale te pozicionohet ne perputhje me projektin dhe specifikimet ne manualin e rrugeve dhe kodin rrugor, dhe (Rregulli teknik per projektimit te rrugeve , RrTPRr-6, Vellimi 6.
- Te shihet projekti i sinjalistikes se rruges dhe per cdo mosperputhje, te konsultohet me projektuesin.

Notes:

- Before deciding on the signage, the project should be consulted with the authority of the local government and the traffic police.
- The asphalt layers of the road will be made with a hardness of $0.4 \leq HS \leq 0.8$, a maximum macrostructure depth of $1.2 \pm 1.5 \text{ mm}$ and reinforcement of the granular material $LS \leq 20\%$ (see technical specifications).
- The markings will be made with paint as in the signage project. The typology of the lines can be seen in the drawings sheets of the cross sections functional type together with the detail drawing sheets of the markings.
- Vertical signage should be positioned in accordance with the project and specifications in the road manual and road code, and (Technical rule for road design, RrTPRr-6, Volume 6.
- To see the street signage project and for any discrepancy, should be consulted with the designer.

P01	First Edition	DQ	DQ	ES	01-06-2023
Rev.	Description/Pershkrim	Drawn/Te vizatuar	Checked/Kontrolluar	Approved/Miratur	Date/Date
		Client/Pronueshti: DURRËS PORT AUTHORITY Project/Projekti: Integrated Port of Durrës in Porto Romano Title/Titull: PLACEMENT AND ASSEMBLY OF THE ROAD SIGNS Size/Pata: A1 Scale/Shkalla: Not in scale Phase/Faza: Detailed Design Sheetno./Nr. i fletes: 08 of nga: 08 Drawing Number/Nr. i vizatimit: B11884-ABK-04-RW-DP-RM-2008			
Design Object/Objekti projektimi: Road Design Phase 1 Initial Project/Projekti: DURRËS PORT AUTHORITY Discipline/Disipline: Road Infrastructure / Infrastruktura e Rrugës		Revision/Rishkrim: 01			

Porti i Integruar i Durrësit në Porto Romano
 Projektimi i rrugës
 Projektimi i strukturave b/a

Integrated Port of Durrës in Porto Romano
 Road design
 R/C structural design

Rev.	Description/Përshkrim	Drawn/Të vizatuar	Checked/Kontrolluar	Approved/Miratuar	Date/Date
P01	First Edition	DQ	DQ	ES	01-06-2023






				
Client/Porositës DURRËS PORT AUTHORITY / Autoriteti Portual Durrës AUTORITETI PORTUAL DURRËS		Design Object/Objekt projektimi Road Design Phase 1 Initial Projekti i Rrugës Faza 1 Fillëstare		
Project/Projekti Integrated Port of Durrës in Porto Romano Porti i Integruar i Durrësit në Porto Romano		Discipline/Disipline Road Infrastructure / Infrastruktura e Rrugës		
Title/Titull Cover page / Kapaku		Revision/Rishkrim 01		
Size/Pëta A1	Scale/Shkalla -	Phase/Faza Detailed Design	Sheetno./Nr. i fletës 00	of/nga 17
Drawing Number/Numri i vizatimit BI1884-ABK-04-RW-DP-S-2000				

Table of Minor Structures/Tabela e strukturave te vogla							
Piketimi /Mark up							
Aksi I tombinos me aksin e rruges /Culvert axis with the road axis							
No	Name/Emertimi	Position/Pozicioni	Dimensions(m)	E	N	Length(m)/Gjatesia	Type/Tipi
1	Culvert T1	0+000.00	2x2	368733.275	4582999.960	19.79	Box
2	Culvert T1	0+175.00	2x2	368891.879	4583081.643	24.5	Box
3	Culvert T1	0+650.00	2x2	368893.413	4583473.164	1983	Box
Aksi 2/Axis 2							
1	Culvert T2	0+675.00	3.5x2.5	367948.211	4583592.340	33.14	Box
1	Culvert T2	0+475.00	3.5x2.5	367948.211	4583592.340	33.14	Box
2	Culvert T2	Kanalet/Channels	3.5x2.5	368384.334	4583619.962		Box
Dalja /Arm							
1	Culvert T3	0+016.08(arm)	2(5x4)m	368624.578	4583828.931	18.59	Box
2	Culvert T3	0+325.00	2(5x4)m	368624.578	4583828.931	37.50	Box

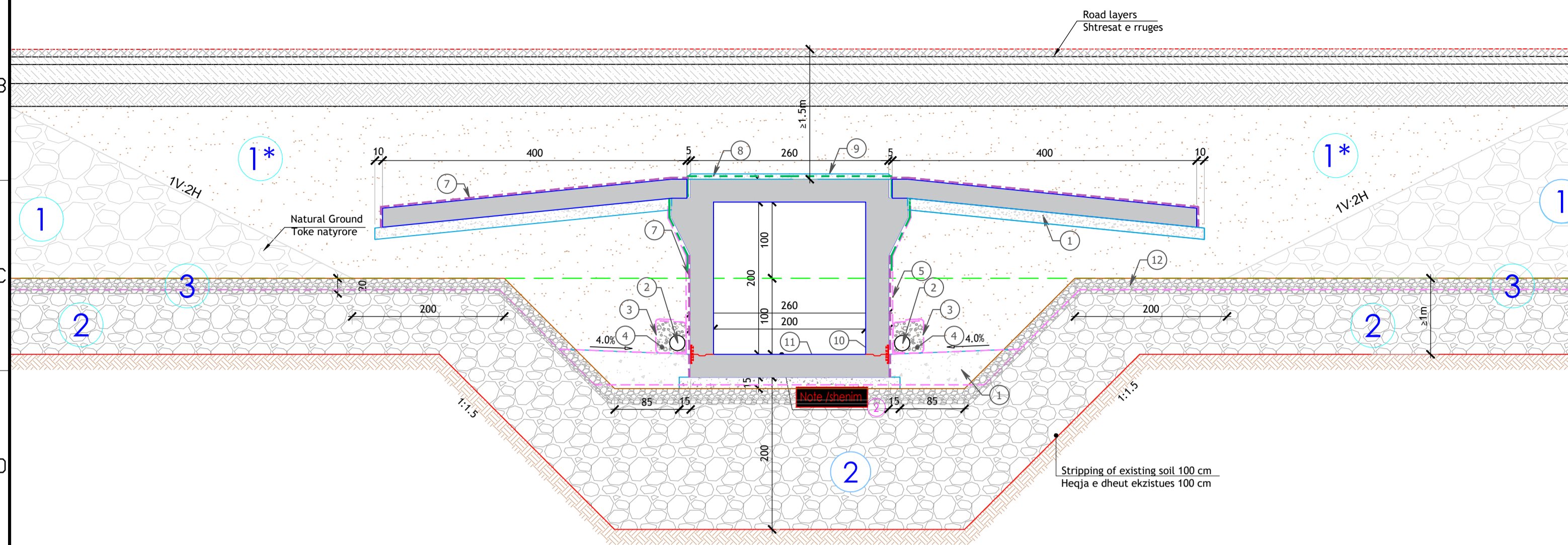
NOTE/SHENIME:

- 1) The final position of the culvert will be verified at the site in conjunction with the drainage system of the land.
Poziicioni i tombinos do te verifikohet ne kantier ne varesi te sistemimit te drenazhit te tokave.
- 2) The last quota of the culvert will be adjusted on site in function of the last quota of the existing channel for the drainage of the area's lands.
Kuota e fundit te tombinos do te saktosohet ne vend ne funksion te kuotes se fundit te kanalit ekzistues te sistemimit te drenazhit/kullimit te tokave te zones.
- 3) The culvert will be realized after the 6-month pre-consolidation period ends.
Tombino do te realizohet pasi te mbaroje periudha 6 mujore e parakonsolidimit.
- 4) Slope should be (1:1.5).
Skarpata te merrt (1:1.5).

P01	First Edition	DQ	DQ	ES	01-06-2023
Rev.	Description/Pershkrim	Drawn/Te vizatuar	Checked/Kontrolluar	Approved/ Miratuar	Date/ Date
Client/Porositës: DURRËS PORT AUTHORITY / Autoriteti Portual Durrës		Design Object/Objekt projektimi: Road Design Phase 1 Initial Projekti i Rrugës Faza 1 Filltare			
Project/Projekti: Integrated Port of Durrës in Porto Romano Porti i Integruar i Durrësit në Porto Romano		Discipline/Disipline: Road Infrastructure / Infrastruktura e Rrugës			
Title/Titull: List of minor structures/Lista e strukturave të vogla					
				Revision/Rishkrim 01	
Scale/Shekalla: A1	Scale/Shekalla: -	Phase/Faza: Detailed Design	Sheetno./Nr. i fletës: 01	of pages/ nga 17	Drawing Number/Numri i vizatimit: BI1884-ABK-04-RW-DP-S-2001

CROSS SECTION/ PRËRJE TËRTHORE

SCALE 1:50



- LEGEND/ LEGJENDE:**
- 1 Unreinforced concrete (C12/15) for smoothing the ground. Beton i varfer (C12/15) për nivelim bazamentit.
 - 2 Perforated concrete drain pipes Ø200mm with discharge at the lowest end - acc. to separate design. Tuba drenimi b/a me vrima Ø200mm me shkarkim në pikën më të ulët - sipas projektit.
 - 3 Geotextile of drainage system/ Gjeotekstil për sistem drenazhi.
 - 4 Coarse-grained filler/ Mbushje kokërrtrashë.
 - 5 Geotextile mesh/ Rjete Gjeotekstili.
 - 6 Drainage sheet/ Plastike drenuese.
 - 7 Double asphalt coating/ H/izolim me 2 duar bitum.
 - 8 Waterproofing with special waterproofing membrane H/izolim me membranë speciale h/izoluese.
 - 9 Concrete (C20/25) for the protection of waterproofing (min 7 cm) with galvanized welded mesh. Beton (C20/25) për mbrojtje h/izolimi (min 7 cm) me rrjete çeliku të galvanizuar të salduar.
 - 10 Construction Joint/ Fuge betonimi.
 - 11 Reinforced concrete C30/37 / Beton i armuar C30/37.
 - 12 Drainage layer granular (fine crushed aggregate (0+19) Shtresë drenazhi (gëllth) (shtresë e imet e çakellit (0+19)).
 - 2 Filling material types

-CONCRETE/ BETON

- Binding concrete/ Beton i lehtësuar C12/15
- Unreinforced mass concrete/ Beton i varfer C12/15
- Reinforced concrete/ Beton i armuar C30/37

-STEEL REINFORCEMENT/ ARMATURA

- High yield reinforcing bars/Shufrat punuese B500C
- Reinforcing Mesh/ Zgarat B500A

-LOADS/ NGARKESA

-Dead loads/ Ngarkesat e perershme

- Unit weight of reinforced concrete/ Peshë e betonit të armuar 25.00KN/m³
- Unit weight of plain concrete/ Peshë e betonit 24.00KN/m³
- Unit weight of backfilling material/ Peshë e materialit mbushës 22.00KN/m³
- Unit weight of water/ Peshë e ujit 10.00KN/m³

-LIVE LOADS/NGARKESA E PERKOSHME

- Load Model 1 according to EN 1991-2/ Modeli 1 sipas EN 1991-2
- Uniformly Load on footway according to EN 1991-2/ Ngarkesë e shpërndarë sipas EN 1991-2

- EARTHQUAKE/ TERMETI

- Seismic Zone/ Zona sizmike
- Reference Peak Ground Acceleration/ Shpejtimi maksimal i truallit

- SOIL DATA/ TE DHENAT E TRUALLIT

- As per Geotechnical Design/ Sipas Ilorgaritjeve gjeoteknike
- Ground Type/ Lloji i truallit Type D/Tip D

- NOMINAL COVER TO ALL STEEL/ SHTRESA MBROJTJESE E ÇELIKUT

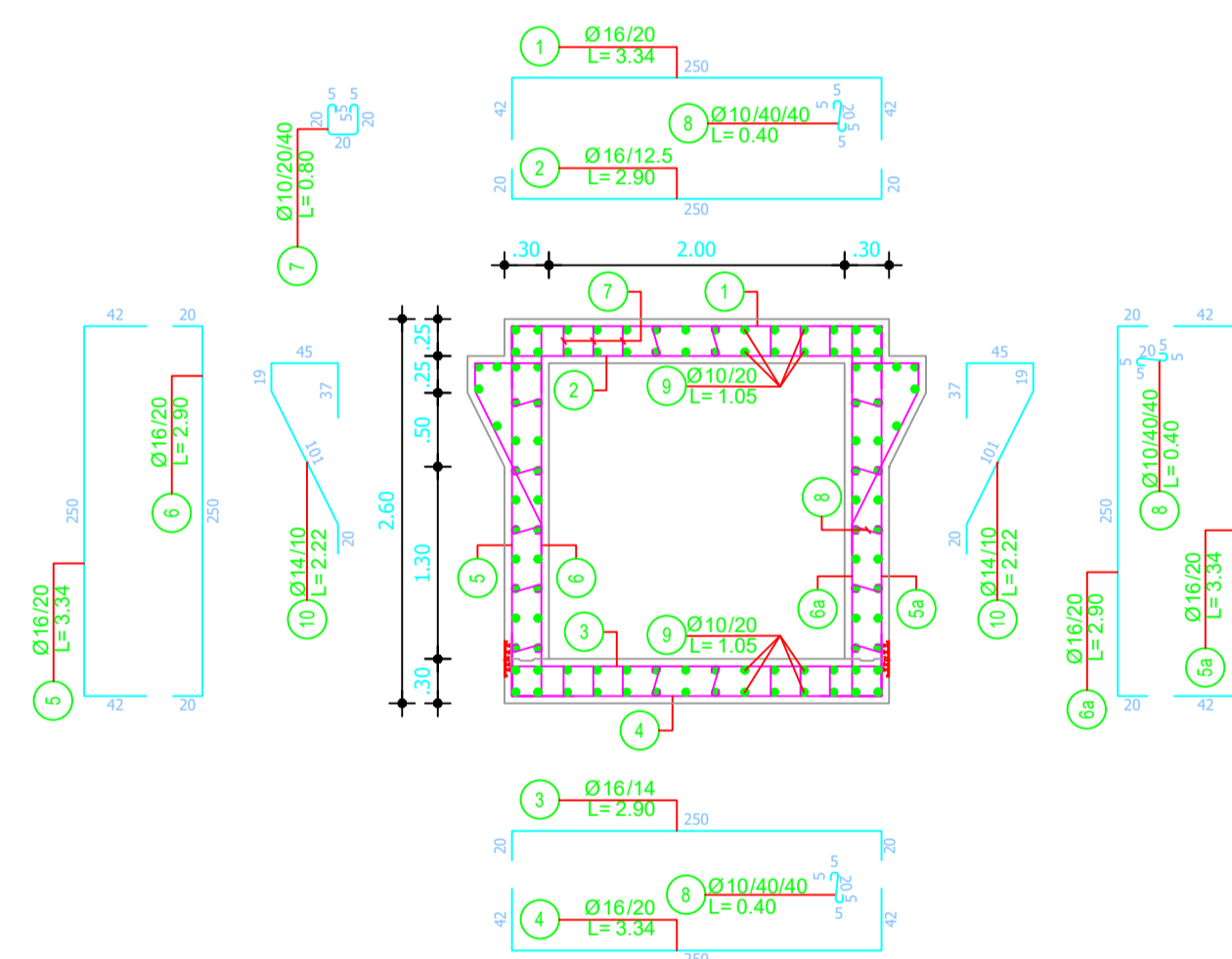
- Walls and foundation slabs in contact with soil/ Mure dhe themele në kontakt me truallin 50 mm
- Walls and foundation slabs in contact with water/ Mure dhe themele në kontakt me ujën 50 mm

- DESIGN CODES APPLICABLE / KODET PROJEKTUESE TE APLIKUARA

- EN 1990: Basis of structural design/ Bazat e projektimit strukturor
- EN 1991: Actions on structures/ Vepimet në struktura
- EN 1992: Design of concrete structures/ Projektimi i strukturave b/a
- EN 1993: Design of steel structures/ Projektimi i strukturave prej çeliku
- EN 1997: Geotechnical design/ Projektimi gjeoteknik
- EN 1998: Design of structures for earthquake resistance/ Projektimi i strukturave antisizmike
- NTC 2008: Technical rules for building/ Norma teknike të projektimit

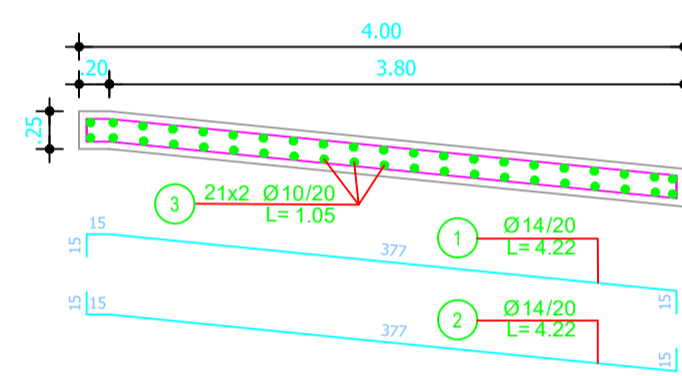
CROSS SECTION REINFORCEMENT / ARMIMI I SEKSIONIT TËRTHOR

SCALE 1:50



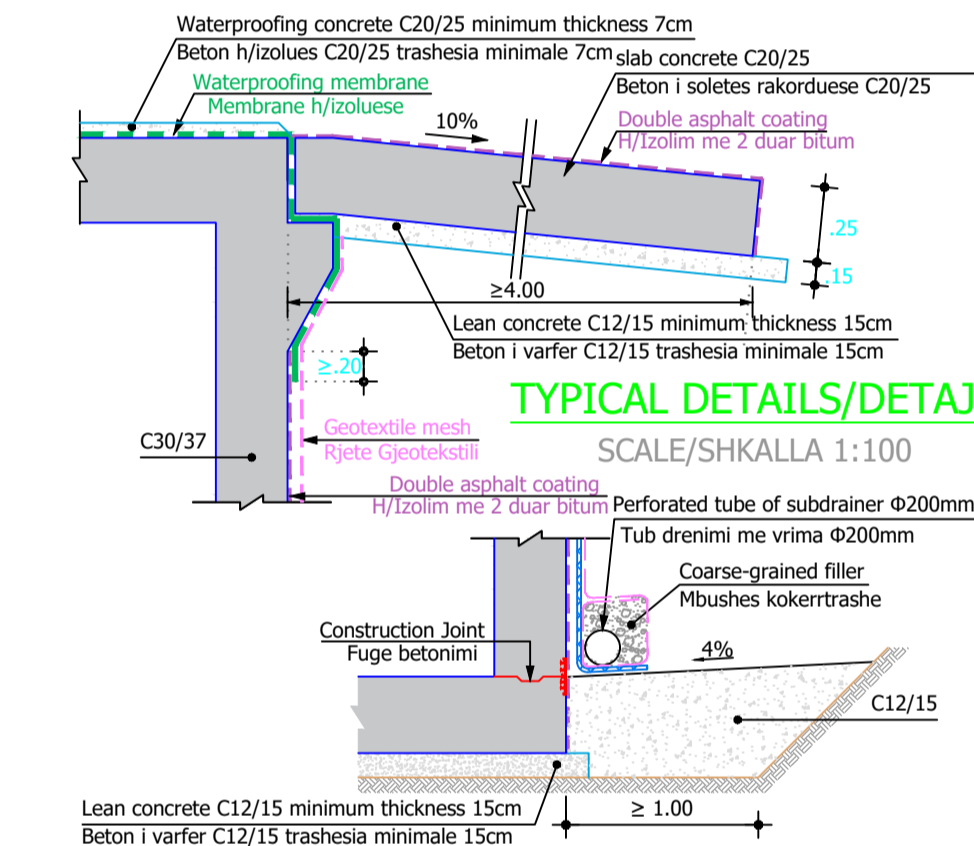
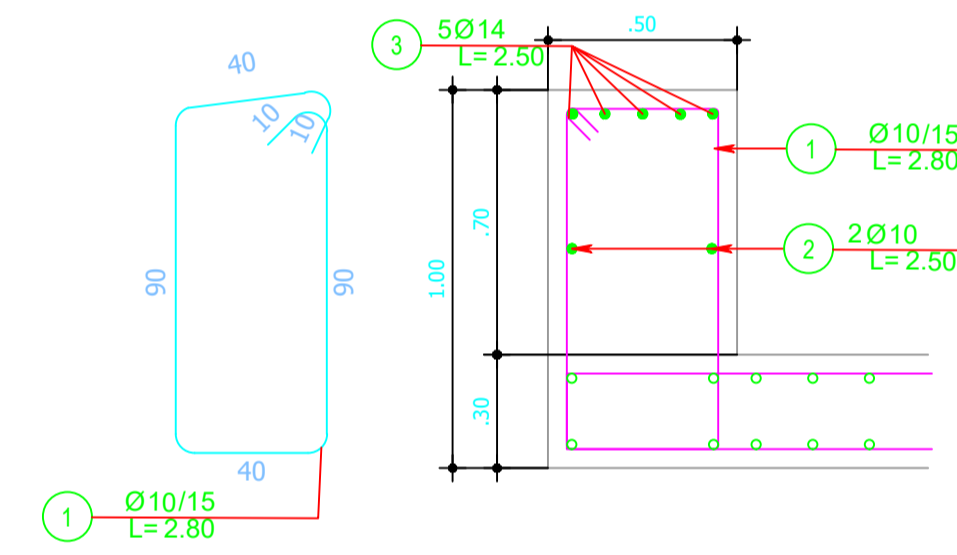
APPROACH SLAB REINFORCEMENT ARMIMI I SOLETËS RAKORDUESE

SCALE / SHKALLA 1:50



DETAIL APEX/ DETAJ PARAPETI

SCALE/SHKALLA 1:20



TYPICAL DETAILS/DETAJE

SCALE/SHKALLA 1:100

FILLING MATERIAL TYPES (SEE SPECIFICATIONS)

- Granular filling (Type 1) of 0+90mm; 0+75mm; 0+37.5mm aggregates, compacted at 93+98% (down + up). See ST. and Filling Report. LA ≥30% (fine crushed aggregate, limestone origin).
- Granular filling (Type 1) of 0+150mm, aggregates, compacted at ≥90% (down + up). See ST. and Filling Report. LA ≥30% (fine crushed aggregate, limestone origin).
- Granular filling type 3. Stabilizer 0+19mm or sand. See ST.
- Vegetal soil layer, sand+clay mix (2:1) + grass. See ST.

TIPIET E MATERIALEVE MBUSHJES (TE SHIHEN SPECIFIKIMET)

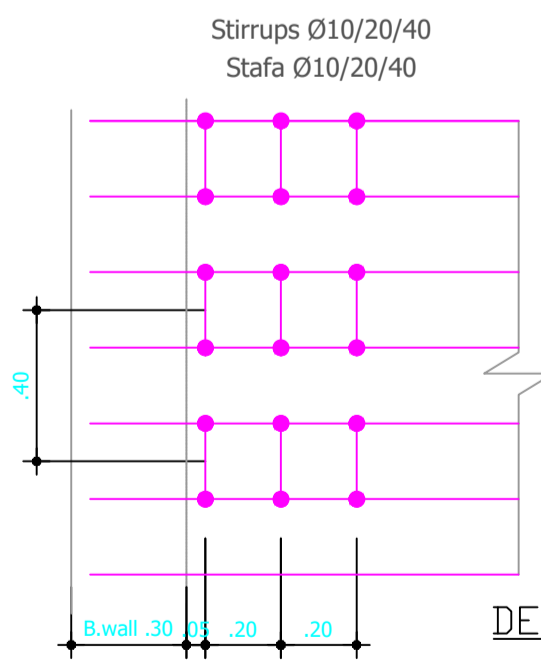
- Mbushje granulare (Tip 1) agregatesh 0+90mm; 0+75mm; 0+37.5mm, e kompaktuar 93+98% (poshte + lart). Shih ST. dhe Raportin e mbushjeve. LA ≥30% (çakell minash + çakell makinerie, nga shkemb gelqeror).
- Mbushje granulare (Tip 1) agregatesh 0+150mm, e kompaktuar ≥90% (poshte + lart). Shih ST. dhe Raportin e mbushjeve. LA ≥30% (çakell minash + çakell makinerie, nga shkemb gelqeror).
- Mbushje granulare tip 3. Stabilizant 0+19mm ose rere. Shih ST.
- Mbushje me shtresë vegjetale, mix rere+argjile (2:1) + bar. Shih ST.

NOTES/SHENIME:

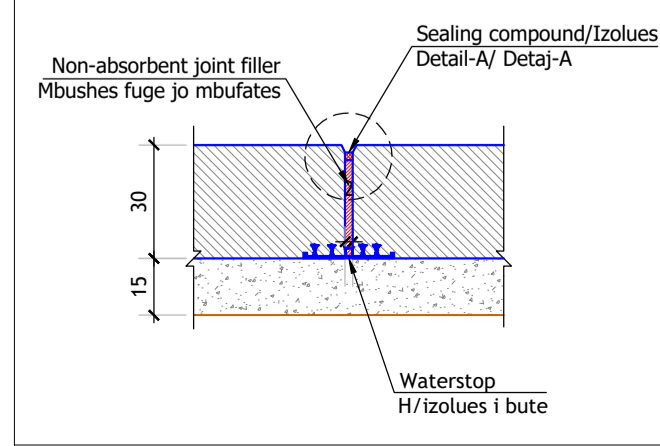
- 1*) Tombino dhe mbushjet (Tip 1) do të realizohen pas përfundimit të parakonsolidimit (6 muaj). Gjate kësaj kohe në pozicionin e tombinos do vendoset një tub i perkoshëm b/ar me Ø100. The culverts and fillings (Type 1) will be completed after the pre-consolidation period (6 months). During this time, a temporary pipe Ø100 should be placed in the position of the culvert.
 - The final position of the culvert will be verified at the site in conjunction with the drainage system of the land. Pozicioni i tombinos do të verifikohet në kantier në varesi të sistemit të drenazhit të tokave.
 - The last quota of the culvert will be adjusted on site in function of the last quota of the existing channel for the drainage of the area's lands. Kuota e fundit të tombinos do të saktësohet në vend në funksion të kuotës së fundit të kanalit ekzistues të sistemit të drenazhit/kuillimit të tokave të zonës.
 - The culvert will be realized after the 6-month pre-consolidation period ends. Tombino do të realizohet pasi të mbarojë periudha 6 mujore e parakonsolidimit.
 - Slope should be (1:1.5). Skarpata të merft (1:1.5).

STIRRUPS ORDER/ POZICIONIMI I STAFAVE

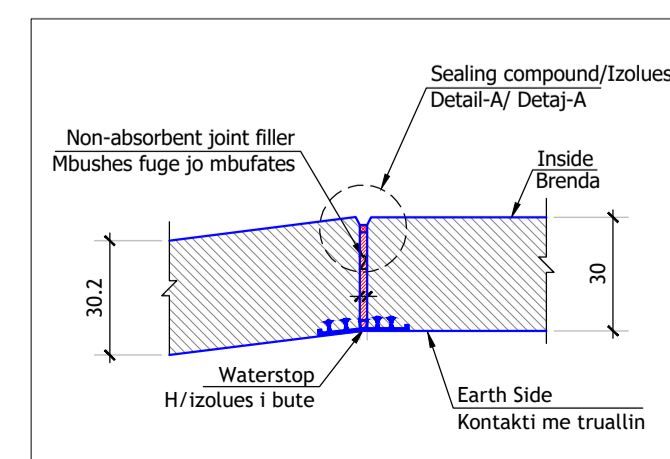
SCALE/SHKALLA 1:20



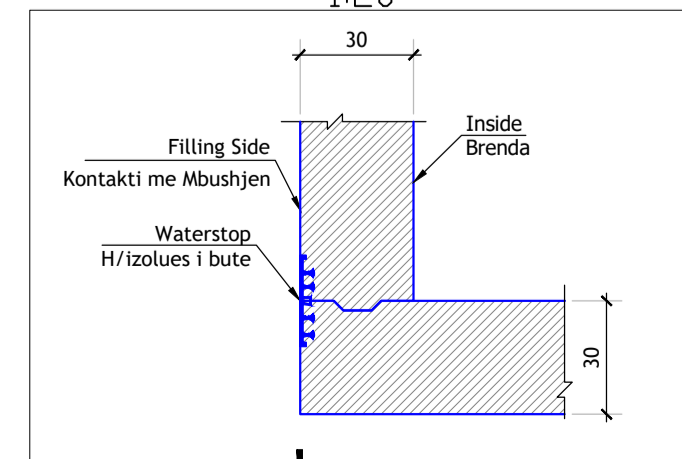
DETAIL-1 (JOINT FOUNDATION)/ DETAJ-1 (FUGA E THEMEELIT) SC./SH. 1:20



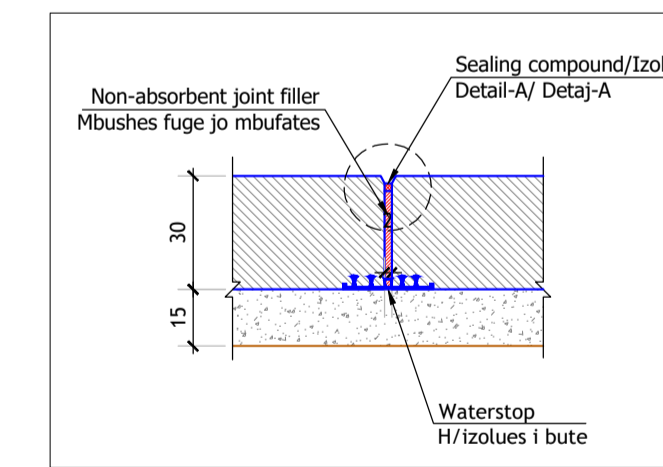
DETAIL-3 (JOINT WALL)/ DETAJ-3 (FUGA E MUREVE) SC./SH. 1:20



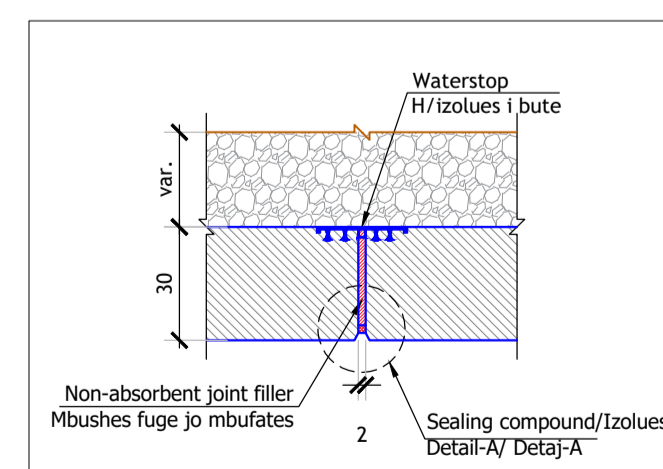
DETAIL-4 (CONSTRUCTION JOINT)/ DETAJ-4 (FUGA BETONIMIT) SC./SH. 1:20



DETAIL-A/ DETAJ-A SC./SH. 1:2



DETAIL-2 (JOINT TOP SLAB)/ DETAJ-2 (FUGA E SOLETËS) SC./SH. 1:20



Reinforcement table/ Tabela e armimit

BOX CULVERT 2x2m, APPROACH SLAB REINFORCEMENT TABLE
TOMBINO KUTI 2x2m, TABELA E ARMIMIT TE SOLETES RAKORDUESE

No. Position Nr. Pozicioni	Diameter Diametri [mm]	Length Gjatesia [cm]	Quantity Sasia [pieces]	Total Length Gjatesia tot. [m]	Total Reinforcement / Armimi total			
					Diameter Diametri [mm]	Length Gjatesia tot. [m]	Steel Weight Peshë e shufres [kg/m]	Total Weight Peshë tot. [ton]
1	14	422	5	21.10	10	44.10	0.617	0.027
2	14	422	5	21.10	14	42.20	1.208	0.051
3	10	105	42	44.10	(1 meter approach slab) Σ = 0.078			(1 meter solete rakorduese) Σ = 0.078

BOX CULVERT 2x2 REINFORCEMENT TABLE
TOMBINO KUTI 2x2 TABELA E HEKURAVE

No. Position Nr. Pozicioni	Diameter Diametri [mm]	Length Gjatesia [cm]	Quantity Sasia [pieces]	Total Length Gjatesia tot. [m]	Total Reinforcement / Armimi total			
					Diameter Diametri [mm]	Length Gjatesia tot. [m]	Steel Weight Peshë e shufres [kg/m]	Total Weight Peshë tot. [ton]
1	16	334	5	16.70	10	151.40	0.617	0.093
2	16	290	8	23.20	14	44.40	1.208	0.054
3	16	290	8	23.20	16	142.20	1.578	0.224
4	16	334	5	16.70				
5	16	334	5	16.70				
6	16	290	5	14.50				
6a	16	334	5	16.70				
7	10	80	30	24.00				
8	10	40	35	14.00				
9	10	105	108	113.40				
10	14	222	20	44.40				
					(1 meter Culvert) Σ = 0.371			
					(1 meter tombino) Σ = 0.371			

BOX CULVERT 2x2 REINFORCEMENT TABLE
TOMBINO KUTI 2x2 TABELA E HEKURAVE TE PARAPETIT

No. Position Nr. Pozicioni	Diameter Diametri [mm]	Length Gjatesia [cm]	Quantity Sasia [pieces]	Total Length Gjatesia tot. [m]	Total Reinforcement			
					Diameter Diametri [mm]	Length Gjatesia tot. [m]	Steel Weight Peshë e shufres [kg/m]	Total Weight Peshë tot. [ton]
1	16	334	5	16.70	10	151.40	0.617	0.093
2	16	290	8	23.20	14	44.40	1.208	0.054
3	16	290	8	23.20	16	142.20	1.578	0.224
4	16	334	5	16.70				
5	16	334	5	16.70				
6	16	290	5	14.50				
6a	16	334	5	16.70				
7	10	80	30	24.00				
8	10	40	35	14.00				
9	10	105	108	113.40				
10	14	222	20	44.40				
					(1 meter Culvert) Σ = 0.371			
					(1 meter parapet) Σ = 0.371			

Revision table and project information:

Rev.	Description/ Përshkrim	Drawn/ Të vizatuar	Checked/Kontrolluar	Approved/ Miratuar	Date/ Data
P01	First Edition	DG	DQ	ES	01-06-2023

Client/ Përdoruesi: DURRËS PORT AUTHORITY / Autoriteti Portual Durrës

Project/ Projekti: Integrated Port of Durrës in Porto Romano / Porti i Integruar i Durrësit në Porto Romano

Discipline/ Disiplina: Road Infrastructure / Infrastruktura e Rrugës

Title/ Titulli: Minor structure, Culvert (2x2)m / Strukturat - Tombinot (2x2)m

Scale/ Shkalla: 1:50

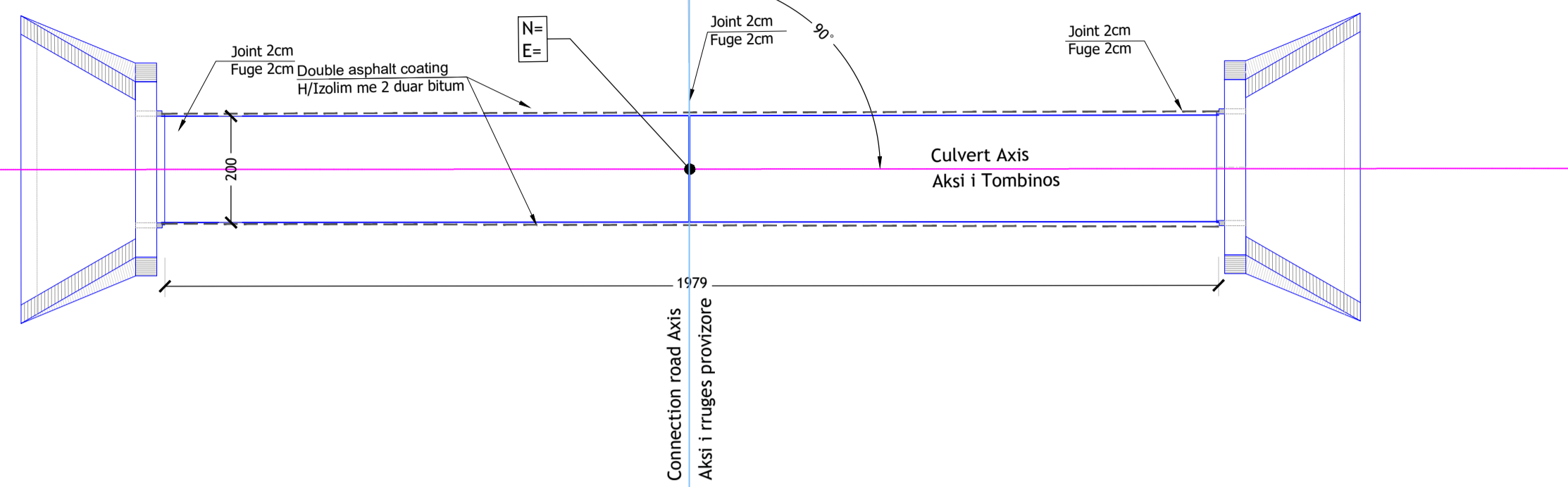
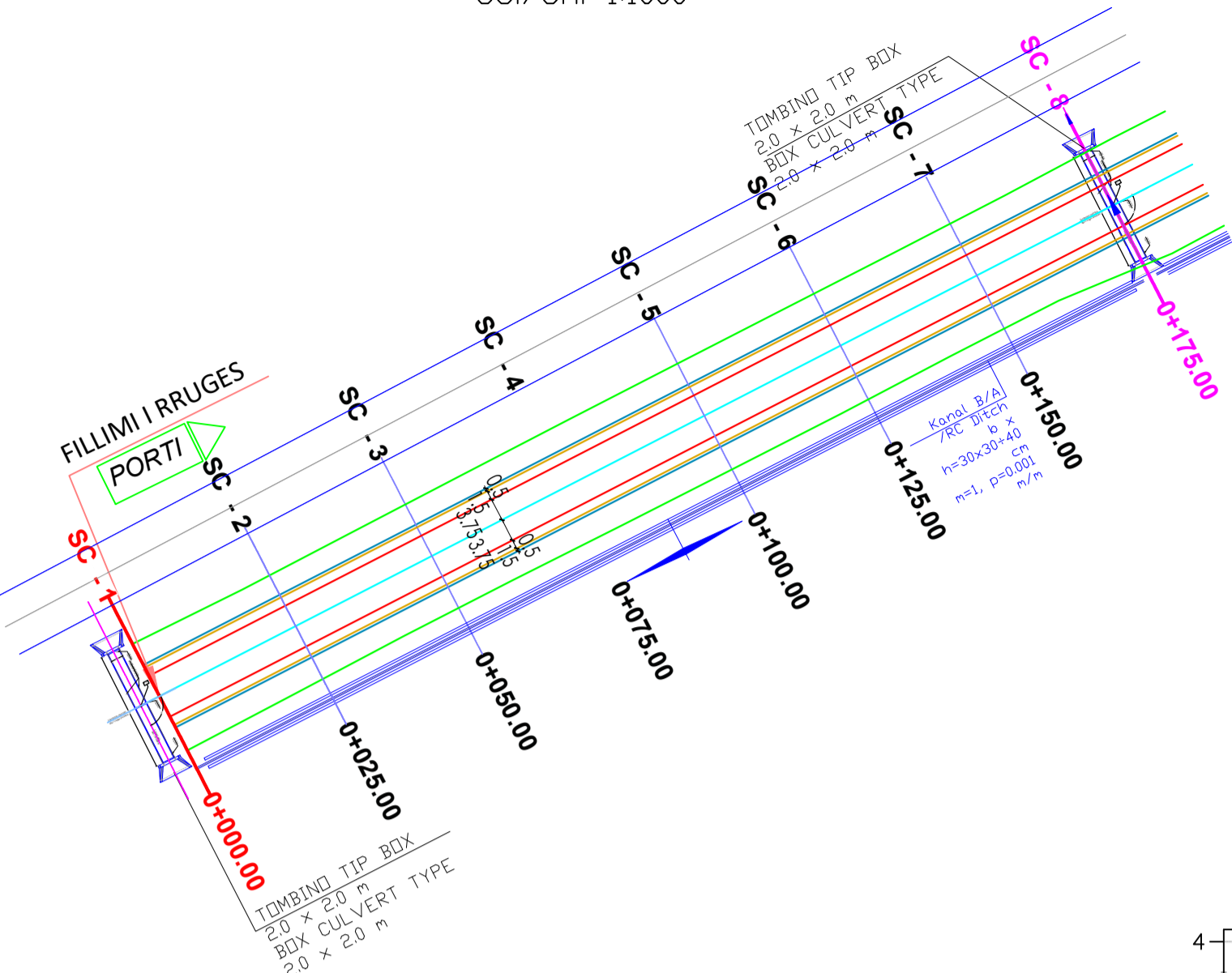
Phase/ Fazë: Detailed Design

Sheet/ Nr. / of nga: 03 / 17

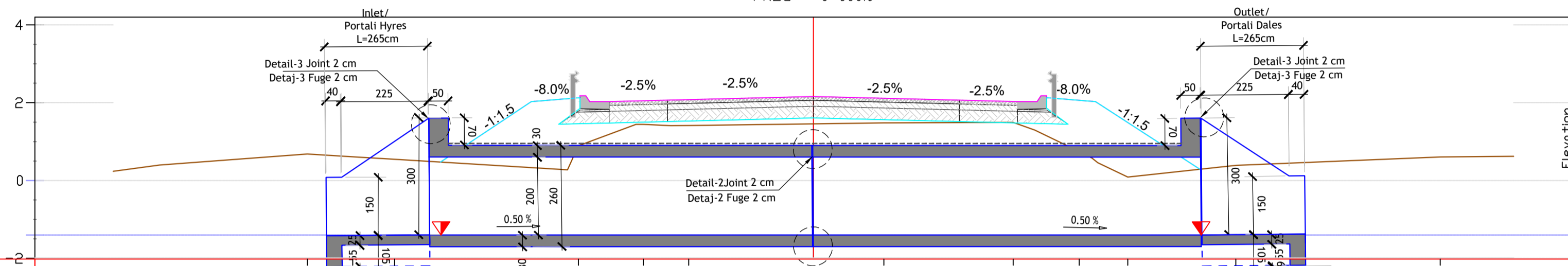
Drawing Number/ Numri i vizimit: B11884-ABK-04-RP-S-2003

GENERAL LAYOUT/ PLANIMETRIA E PËRGJITHSHME
SC./SH. 1:1000

PLAN VIEW OF BOX CULVERT (2x2) - Ch. 0+ 000.00/ PLANIMETRIA E TOMBINDS KUTI (2x2) - Km. 0+000.00
SC.1./SH. 1:100

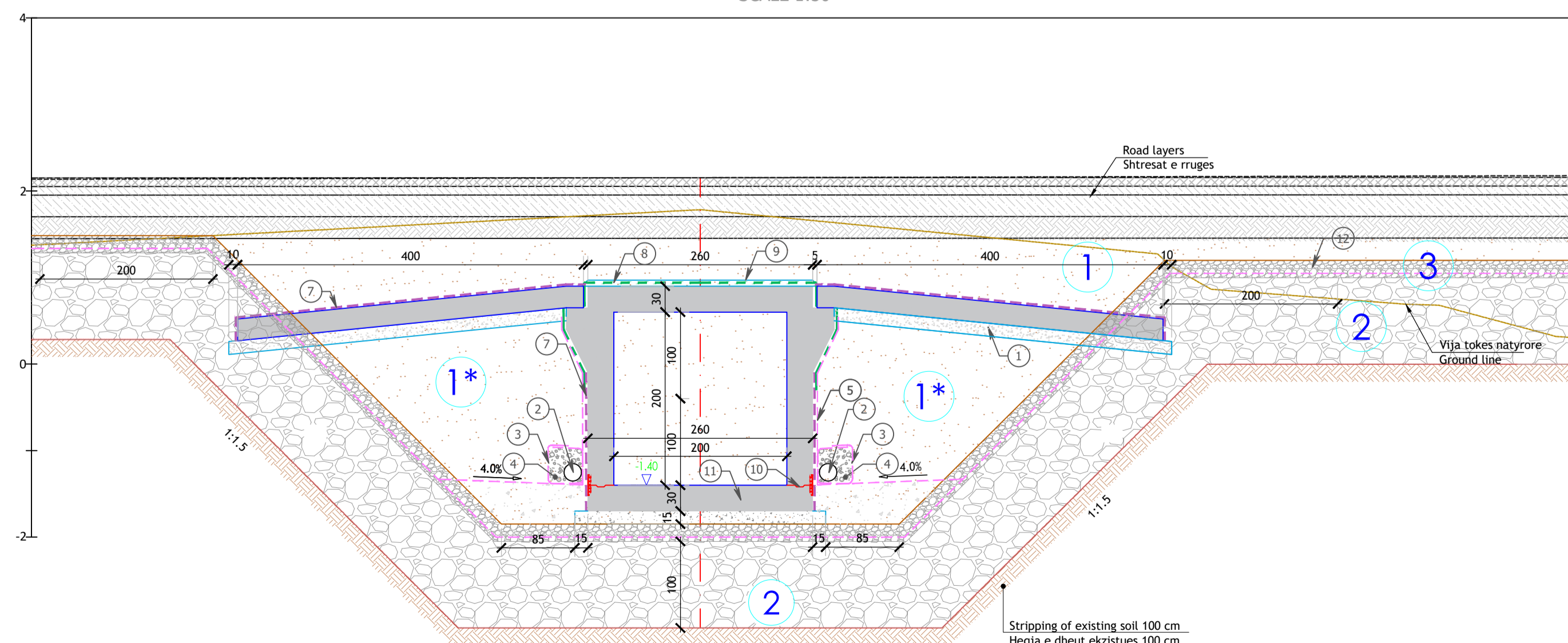


LONGITUDINAL SECTION 1-1/ PROFIL GJATËSDR 1-1
SC.1./SH. 1:100



Ground Level Kuota e terrenit		0.68	0.61	0.55	0.89	1.45	1.41	1.46	1.48	1.49	0.74	0.09	0.39	16.11
ground progressive Progresiva e terrenit	-16.81	-13.01	-11.84	-10.76	-6.04	-4.37	-3.20	0.00	1.81	5.14	6.83	8.08	10.86	16.11
Project level Kuota e projektit				0.47	2.03	2.03	2.07	2.16	2.07	2.03	2.03	0.29		
Project progressive Progresiva e projektit				-9.58	-7.25	-5.25	-3.75	0.00	3.75	5.25	7.25	9.93		
Work level Kuota e punes				0.00	1.70	0.84	0.65	0.70	0.58	0.58	1.52	0.00		

CROSS SECTION/ PRERJE TËRTHORE
SCALE 1:50



- CONCRETE/ BETON
 - Blinding concrete/ Beton i lehtësuar C12/15
 - Unreinforced mass concrete/ Beton i varfer C12/15
 - Reinforced concrete/ Beton i armuar C30/37
- STEEL REINFORCEMENT/ ARMATURA
 - High yield reinforcing bars/Shufrat punuese B500C
 - Reinforcing Mesh/ Zgarat B500A
- LOADS/ NGARKESA
 - Dead loads/ Ngarkesat e perhershme
 - Unit weight of reinforced concrete/ Peshë e betonit të armuar 25.00KN/m³
 - Unit weight of plain concrete/ Peshë e betonit 24.00KN/m³
 - Unit weight of backfilling material/ Peshë e materialit mbushës 22.00KN/m³
 - Unit weight of water/ Peshë e ujit 10.00KN/m³
 - LIVE LOADS/NGARKESA E PERKOHSHME
 - Load Model 1 according to EN 1991-2/ Modeli 1 sipas EN 1991-2
 - Uniformly Load on footway according to EN 1991-2/ Ngarkesë e shpërndarë sipas EN 1991-2
- EARTHQUAKE/ TERMETI
 - Seismic Zone/ Zona sizmike
 - Reference Peak Ground Acceleration/ Shpejtimi maksimal i truallit
- SOIL DATA/ TE DHENAT E TRUALLIT
 - As per Geotechnical Design/ Sipas llogaritjeve gjeoteknike
 - Ground Type/ Lloji i truallit Type D/Tip D
- NOMINAL COVER TO ALL STEEL/ SHITRESA MBROJTËSE E ÇELIKUT
 - Walls and foundation slabs in contact with soil/ Mure dhe themele në kontakt me truallin 50 mm
 - Walls and foundation slabs in contact with water/ Mure dhe themele në kontakt me ujë 50 mm
- DESIGN CODES APPLICABLE / KODET PROJEKTUESE TE APLIKUARA
 - EN 1990: Basis of structural design/ Bazat e projektimit strukturor
 - EN 1991: Actions on structures/ Veprimet në struktura
 - EN 1992: Design of concrete structures/ Projektimi i strukturave b/a
 - EN 1993: Design of steel structures/ Projektimi i strukturave prej çeliku
 - EN 1997: Geotechnical design/ Projektimi gjeoteknik
 - EN 1998: Design of structures for earthquake resistance/ Projektimi i strukturave antisizmike
 - NTC 2008: Technical rules for building/ Norma teknike të projektimit

FILLING MATERIAL TYPES (SEE SPECIFICATIONS)

- 1) Granular filling (Type 1) of 0+90mm; 0+75mm; 0+37.5mm aggregates, compacted at 93+98% (down + up). See ST. and Filling Report. LA ≥30% (fine crushed aggregate, limestone origin).
- 2) Granular filling (Type 1) of 0+150mm, aggregates, compacted at ≥ 90% (down + up). See ST. and Filling Report. LA ≥30% (fine crushed aggregate, limestone origin).
- 3) Granular filling type 3. Stabilizer 0+19mm or sand. See ST.
- 4) Vegetal soil layer, sand+clay mix (2:1) + grass. See ST.

TIPET E MATERIALEVE MBUSHES (TE SHIHEN SPECIFIKIMET)

- 1) Mbushje granulare (Tip 1) agregatesh 0+90mm; 0+75mm; 0+37.5mm, e kompaktuesuar 93+98% (poshte + lart). Shih ST. dhe Raportin e mbushjeve. LA ≥30% (çakell minash + çakell makinerie, nga shkemb gelqeror).
- 2) Mbushje granulare (Tip 1) agregatesh 0+150mm, e kompaktuesuar ≥ 90% (poshte + lart). Shih ST. dhe Raportin e mbushjeve. LA ≥30% (çakell minash + çakell makinerie, nga shkemb gelqeror).
- 3) Mbushje granulare tip 3. Stabilizant 0+19mm ose rere. Shih ST.
- 4) Mbushje me shtresë vegjetale, mix rere+argjile (2:1) + bar. Shih ST.

NOTES/SHËNIME:

- 1*) 1*) Tombino dhe mbushjet (Tip 1) do të realizohen pas periudhës së parakonsolidimit (6 muaj). Gjate kësaj kohe në pozicionin e tombinos të vendoset një tub i perkohshëm b/arme Ø100./The culverts and fillings (Type 1) will be completed after the pre-consolidation period (6 months). During this time, a temporary pipe Ø100 should be placed in the position of the culvert.
 - 1) The final position of the culvert will be verified at the site in conjunction with the drainage system of the land. Pozicioni i tombinos do të verifikohet në kantier në varesi të sistemit të drenazhit të tokave.
 - 2) The last quota of the culvert will be adjusted on site in function of the last quota of the existing channel for the drainage of the area's lands. Kuota e fundit të tombinos do të saktësohet në vend në funksion të kuotës së fundit të kanalit ekzistues të sistemit të drenazhit/kullimit të tokave të zonës.
 - 3) The culvert will be realized after the 6-month pre-consolidation period ends. Tombino do të realizohet pasi të mbarojë periudha 6 mujore e parakonsolidimit.
 - 4) Slope should be (1:1.5). Skarpata të merrt (1:1.5).

P01	First Edition	DQ	DQ	ES	01-06-2023
Rev.	Description/Përshkrim	Drawn/Të vizatuar	Checked/Kontrolluar	Approved/Miratuar	Date/Date



Client/Pronator: DURRËS PORT AUTHORITY / Autoriteti Portual Durrës
 Road Design Phase 1 Initial Projekt i Rruges Faza 1 Fillëstare

Project/Projekt: Integrated Port of Durrës in Porto Romano
 Porti i Integruar i Durrësit në Porto Romano

Title/Titull: Minor structure, Culvert (2x2)m KM 0+000
 Strukturat - Tombinot (2x2)m KM 0+000

Scale/Pala: A1	Scale/Shkalla: 1:50	Phase/Faza: Detailed Design	Sheetno./Nr. i Fletës: 04	of/nga: 17	Revision/Revizim: 01
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Drawing Number/Numri i vizatimit: BI1884-ABK-04-RW-DP-S-2004

- CONCRETE/ BETON
 - . Blinding concrete/ Beton i lehtësuar C12/15
 - . Unreinforced mass concrete/ Beton i varfer C12/15
 - . Reinforced concrete/ Beton i armuar C30/37
- STEEL REINFORCEMENT/ ARMATURA
 - . High yield reinforcing bars/Shufrat punuese B500C
 - . Reinforcing Mesh/ Zgarat B500A
- LOADS/ NGARKESA
 - Dead loads/ Ngarkesat e perhershme
 - . Unit weight of reinforced concrete/ Peshë e betonit te armuar 25.00KN/m³
 - . Unit weight of plain concrete/ Peshë e betonit 24.00KN/m³
 - . Unit weight of backfilling material/ Peshë e materialit mbushës 22.00KN/m³
 - . Unit weight of water/ Peshë e ujit 10.00KN/m³

- LIVE LOADS/NGARKESA E PERKOSHME
 - . Load Model 1 according to EN 1991-2/ Modeli 1 sipas EN 1991-2
 - . Uniformly Load on footway according to EN 1991-2/ Ngarkese e shperndare sipas EN 1991-2

- EARTHQUAKE/ TERMETI
 - . Seismic Zone/ Zona sizmike
 - . Reference Peak Ground Acceleration/ Shpejtimi maksimal i truallit

- SOIL DATA/ TE DHENAT E TRUALLIT
 - . As per Geotechnical Design/ Sipas llogaritjeve gjeoteknike
 - . Ground Type/ Lloji i truallit Type D/Tip D

- NOMINAL COVER TO ALL STEEL/ SHITESA MBROJTESE E ÇELIKUT
 - . Walls and foundation slabs in contact with soil/ Mure dhe themele ne kontakt me truallin 50 mm
 - . Walls and foundation slabs in contact with water/ Mure dhe themele ne kontakt me ujin 50 mm

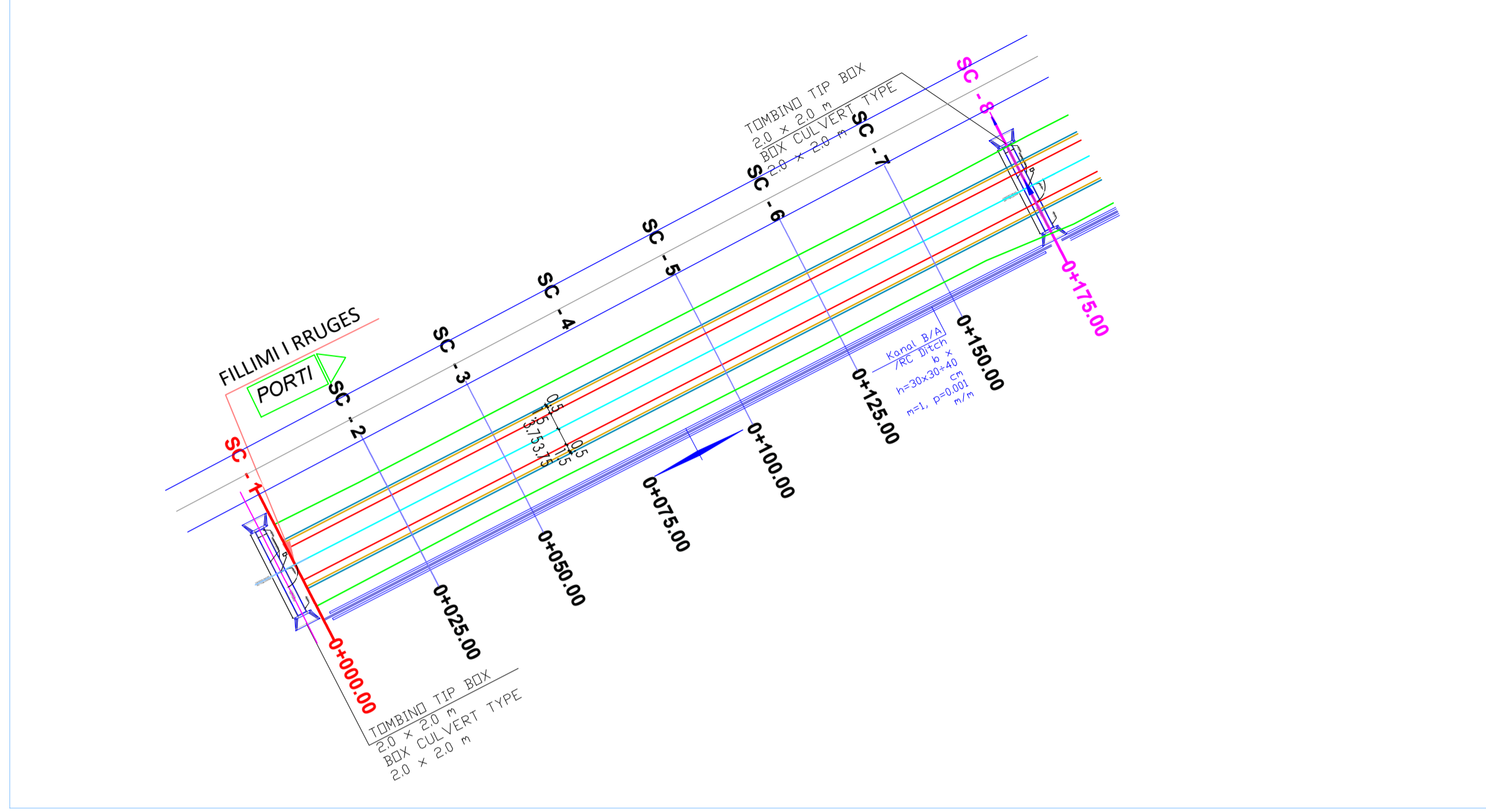
- DESIGN CODES APPLICABLE / KODET PROJEKTUESE TE APLIKUARA
 - . EN 1990: Basis of structural design/ Bazat e projektimit strukturor
 - . EN 1991: Actions on structures/ Veprimet ne struktura
 - . EN 1992: Design of concrete structures/ Projektimi i strukturave b/a
 - . EN 1993: Design of steel structures/ Projektimi i strukturave prej çeliku
 - . EN 1997: Geotechnical design/ Projektimi gjeoteknik
 - . EN 1998: Design of structures for earthquake resistance/ Projektimi i strukturave antisizmike
 - . NTC 2008: Technical rules for building/ Norma teknike te projektimit

- FILLING MATERIAL TYPES (SEE SPECIFICATIONS)**
- 1) Granular filling (Type 1) of 0÷90mm; 0÷75mm; 0÷37.5mm aggregates, compacted at 93÷98% (down + up). See ST. and Filling Report. LA ≥30% (fine crushed aggregate, limestone origin).
 - 2) Granular filling (Type 1) of 0÷150mm, aggregates, compacted at ≥ 90% (down + up). See ST. and Filling Report. LA ≥30% (fine crushed aggregate, limestone origin).
 - 3) Granular filling type 3. Stabilizer 0÷19mm or sand. See ST.
 - 4)Vegetal soil layer, sand+clay mix (2:1) + grass. See ST.

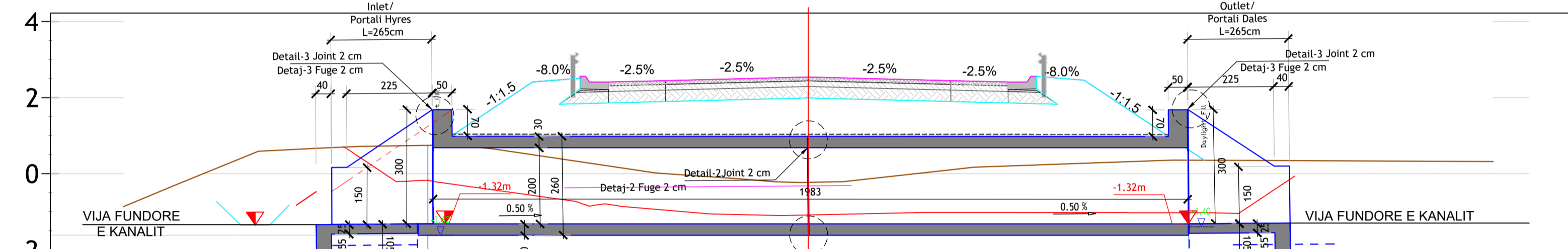
- TIPET E MATERIALEVE MBUSHJESE (TE SHIHEN SPECIFIKIMET)**
- 1)Mbushtje granulare (Tip 1) agregatesh 0÷90mm; 0÷75mm; 0÷37.5mm, e kompaktesuar 93÷98% (poshte + lart). Shih ST. dhe Raportin e mbushjeve.
 - 2) Mbushtje granulare (Tip 1) agregatesh 0÷150mm, e kompaktesuar ≥ 90% (poshte + lart). Shih ST. dhe Raportin e mbushjeve.
 - 3) Mbushtje granulare tip 3. Stabilitant 0÷19mm ose rere. Shih ST.
 - 4) Mbushtje me shitese vegjetale, mix rere+argjile (2:1) + bar. Shih ST.

- NOTES/SHENIME:**
- 1*) Tombino dhe mbushjet (Tip 1) do te realizohen pas perudhes se parakonsolidimit (6 muaj).Gjate kesaj kohe ne pozicionin e tombinos te vendoset nje tub i perkoshem b/arme Ø100./The culverts and fillings (Type 1) will be completed after the pre-consolidation period (6 months). During this time, a temporary pipe Ø100 should be placed in the position of the culvert.
 - 1) The final position of the culvert will be verified at the site in conjunction with the drainage system of the land. Pozicioni i tombinos do te verifikohet ne kantier ne varesi te sistemimit te drenazhit te tokave.
 - 2) The last quota of the culvert will be adjusted on site in function of the last quota of the existing channel for the drainage of the area's lands. Kuota e fundit te tombinos do te saktësohet ne vend ne funksion te kuotes se fundit te kanalit ekzistues te sistemimit te drenazhit/kullimit te tokave te zones.
 - 3) The culvert will be realized after the 6-month pre-consolidation period ends. Tombino do te realizohet pasi te mbaroje periudha 6 mujore e parakonsolidimit.
 - 4) Slope should be [1:1.5]. Skarpata te merit [1:1.5].

GENERAL LAYOUT/ PLANIMETRIA E PËRGJITHSHME
SC./SH. 1:1000

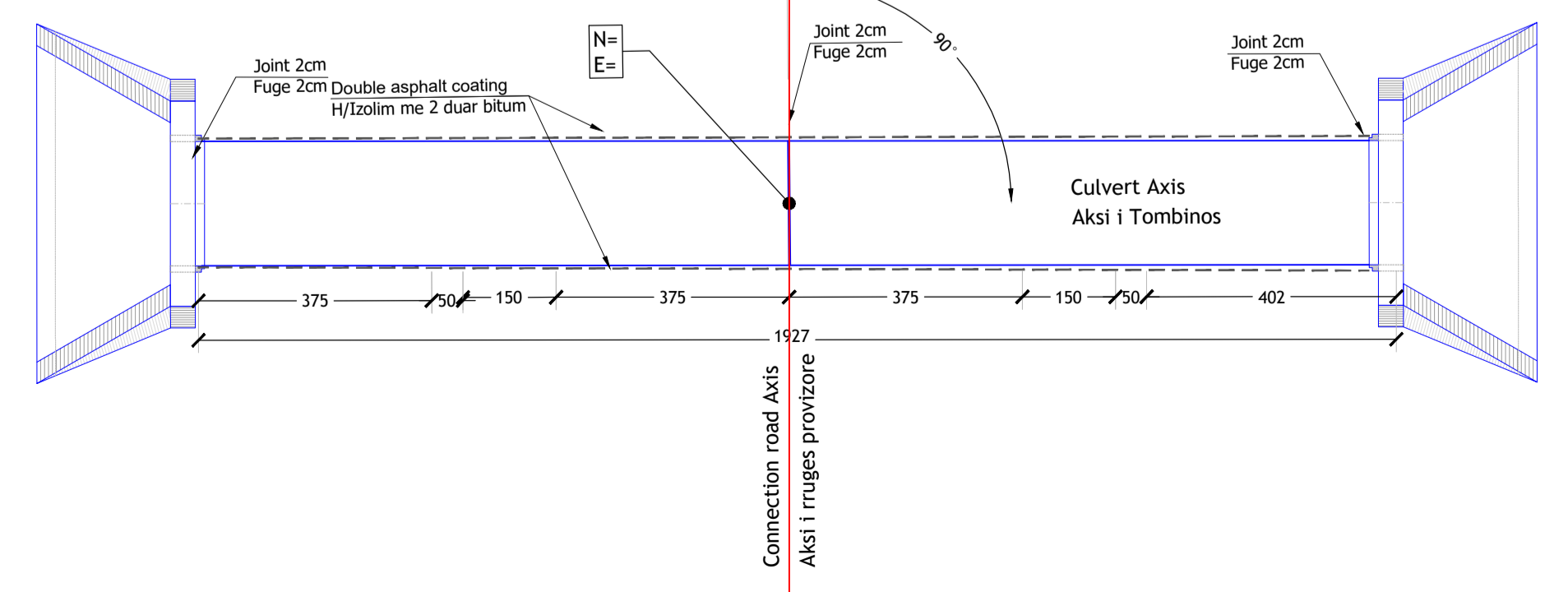


LONGITUDINAL SECTION 1-1/ PROFIL GJATËSOR 1-1
SC./SH. 1:100 Sc - 8 PROG - 0+175.0



	0+000.00	0+025.00	0+050.00	0+075.00	0+100.00	0+125.00	0+150.00	0+175.00
Ground Level Kuota e terrenit	-0.32	0.59	0.67	0.72	0.75	0.65	0.02	-0.14
ground progressive Progresiva e terrenit	-16.68	-14.45	-12.86	-11.80	-9.56	-8.27	-4.00	-1.71
Project level Kuota e projektit			0.77	0.77	0.76	2.41	2.56	2.48
Project progressive Progresiva e projektit			-12.21	-11.34	-9.72	-7.25	-5.96	-4.87
Work level Kuota e punes			0.07	0.04	0.01	1.91	2.25	2.24

PLAN VIEW OF BOX CULVERT (2x2) - Ch. 0+ 175.00/ PLANIMETRIA E TOMBINOS KUTI (2x2) - Km. 0+175.00
SC./SH. 1:100



Rev	Description/Përshkrim	DG	Checked/Kontrolluar	ES	Approved/Miratur	Date/Date
P01	First Edition	DG		ES		01-06-2023

abkons LOCAL KNOWLEDGE. GLOBAL STANDARDS
ADEC ADVANCED DESIGN ENGINEERING CONSULTANCY
TALANT s.h.p.k. Design & Supervision
GEO ENG GEOTECHNICAL ENGINEERING
Royal HaskoningDHV Enhancing Society Together

Client/Porositësi: **DURRËS PORT AUTHORITY** / Autoriteti Portual Durrës
Road Design Phase 1 Initial
Projekt i Rruges Faza 1 Filltare

Project/Projekti: **Integrated Port of Durrës in Porto Romano**
Porti i Integruar i Durrësit në Porto Romano

Title/Titulli: **Minor structure, Culvert (2x2)m KM 0+175.00**
Strukturat - Tombinos (2x2)m KM 0+175.00

Scale/Pelja: A1
Scale/Shkalla: 1:50
Phase/Faza: Detailed Design

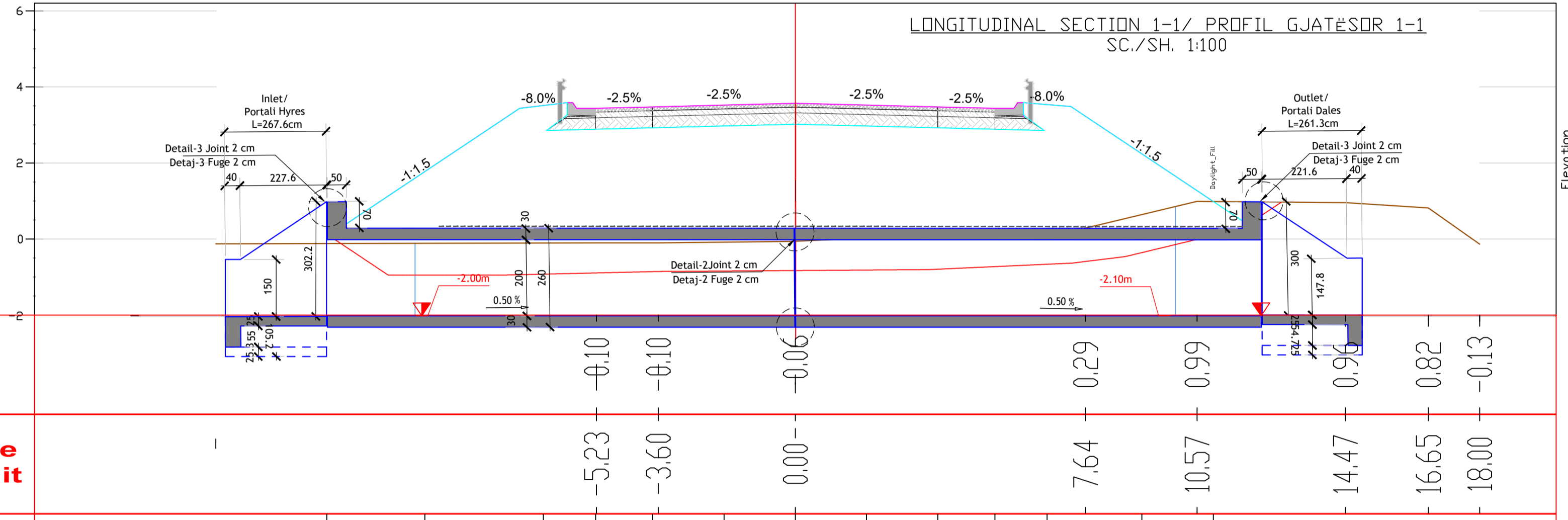
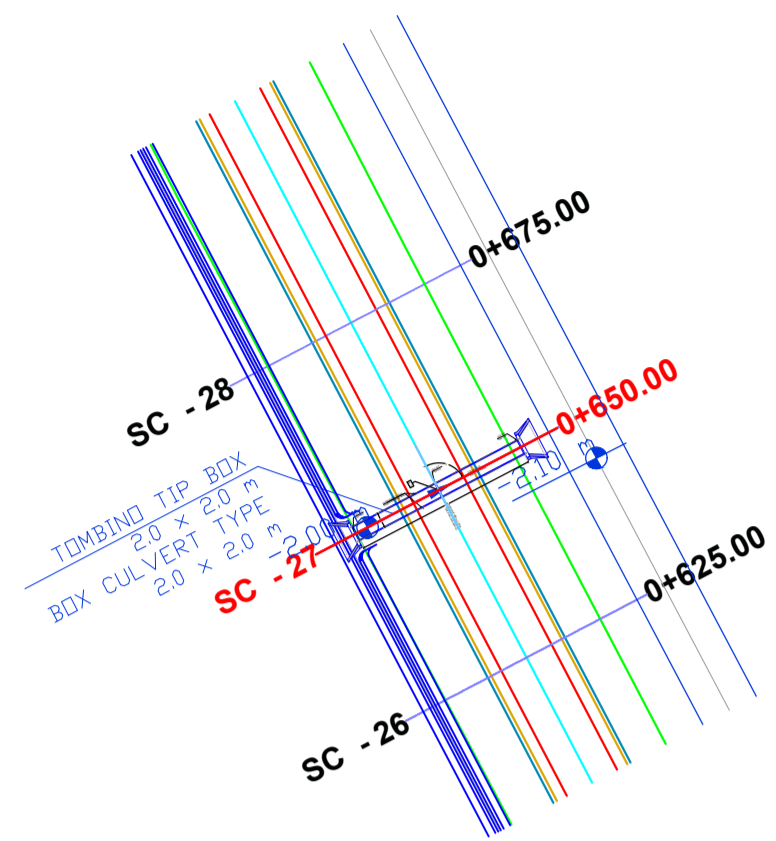
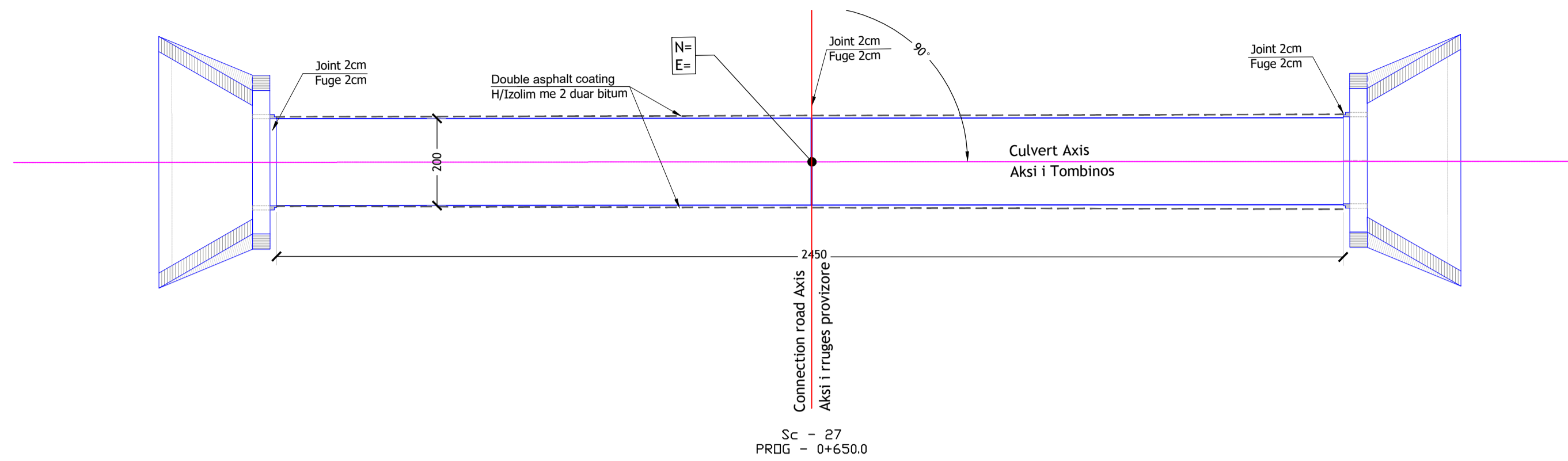
Sheetno./ Nr. i Fletës: 05
of / nga: 17

Revision/Revizimi: 01

Drawing Number/Numri i vizatimit: BI1884-ABK-04-RW-DP-S-2005

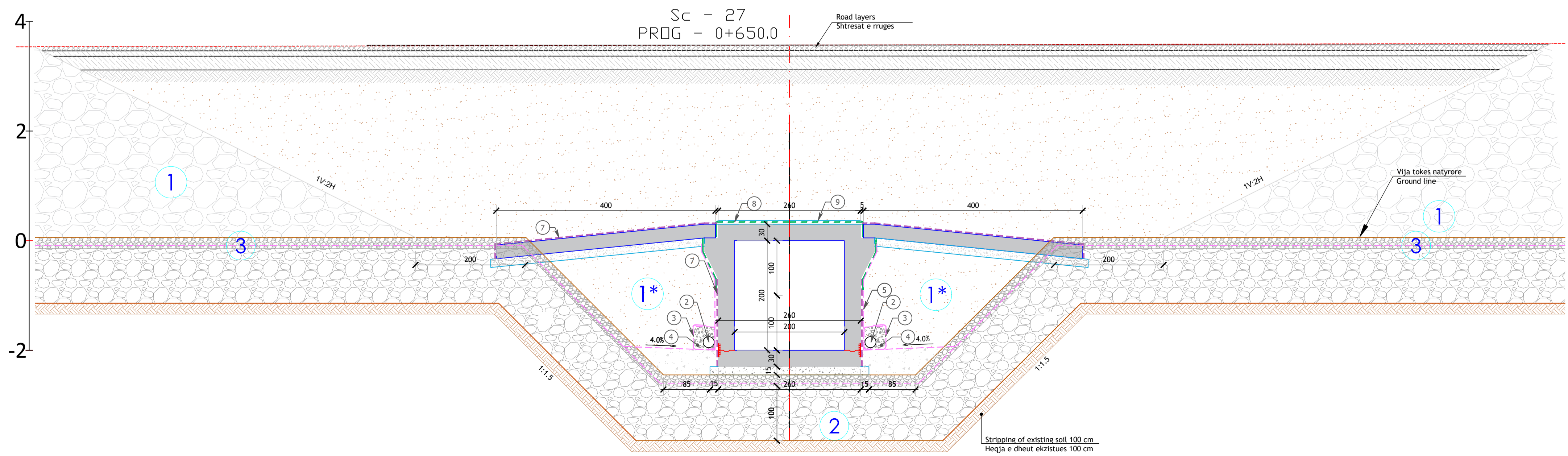
PLAN VIEW OF BOX CULVERT (2x2) - Ch. 0+650.00/ PLANIMETRIA E TOMBINOS KUTI (2x2) - Km. 0+650.00
SC./SH. 1:100

GENERAL LAYOUT/ PLANIMETRIA E PËRGJITHSHME
SC./SH. 1:1000



	0+645.00	0+650.00	0+655.00	0+660.00	0+665.00	0+670.00	0+675.00	0+680.00	0+685.00	0+690.00	0+695.00	0+700.00	0+705.00	0+710.00	0+715.00
Ground Level Kuota e terrenit															
ground progressive Progresiva e terrenit															
Project level Kuota e projektit															
Project progressive Progresiva e projektit															
Work level Kuota e punes															

CROSS SECTION/ PRERJE TËRTHORE
SCALE 1:50



- CONCRETE/ BETON**
 - Blinding concrete/ Beton i lehtësuar C12/15
 - Unreinforced mass concrete/ Beton i varfer C12/15
 - Reinforced concrete/ Beton i armuar C30/37
- STEEL REINFORCEMENT/ ARMATURA**
 - High yield reinforcing bars/Shufrat punuese B500C
 - Reinforcing Mesh/ Zgarat B500A
- LOADS/ NGARKESA**
 - Dead loads/ Ngarkesat e perhershme**
 - Unit weight of reinforced concrete/ Peshë e betonit te armuar 25.00KN/m³
 - Unit weight of plain concrete/ Peshë e betonit 24.00KN/m³
 - Unit weight of backfilling material/ Peshë e materialit mbushës 22.00KN/m³
 - Unit weight of water/ Peshë e ujit 10.00KN/m³
 - LIVE LOADS/NGARKESA E PERKOHSHME**
 - Load Model 1 according to EN 1991-2/ Modeli 1 sipas EN 1991-2
 - Uniformly Load on footway according to EN 1991-2/ Ngarkesë e shpërndarë sipas EN 1991-2
- EARTHQUAKE/ TERMETI**
 - Seismic Zone/ Zona sizmike
 - Reference Peak Ground Acceleration/ Shpejtësi maksimale i trullit
- SOIL DATA/ TE DHENAT E TRUALLIT**
 - As per Geotechnical Design/ Sipas Illogaritjeve gjeoteknike
 - Ground Type/ Lloji i truallit Type D/Tip D
- NOMINAL COVER TO ALL STEEL/ SHITRESA MBROJTESE E ÇELIKUT**
 - Walls and foundation slabs in contact with soil/ Mure dhe themele ne kontakt me truallin 50 mm
 - Walls and foundation slabs in contact with water/ Mure dhe themele ne kontakt me ujin 50 mm
- DESIGN CODES APPLICABLE / KODET PROJEKTUESE TE APLIKUARA**
 - EN 1990: Basis of structural design/ Bazat e projektimit strukturor
 - EN 1991: Actions on structures/ Veprimet ne struktura
 - EN 1992: Design of concrete structures/ Projektimi i strukturave b/a
 - EN 1993: Design of steel structures/ Projektimi i strukturave prej çeliku
 - EN 1997: Geotechnical design/ Projektimi gjeoteknik
 - EN 1998: Design of structures for earthquake resistance/ Projektimi i strukturave antisizmike
 - NTC 2008: Technical rules for building/ Norma teknike te projektimit

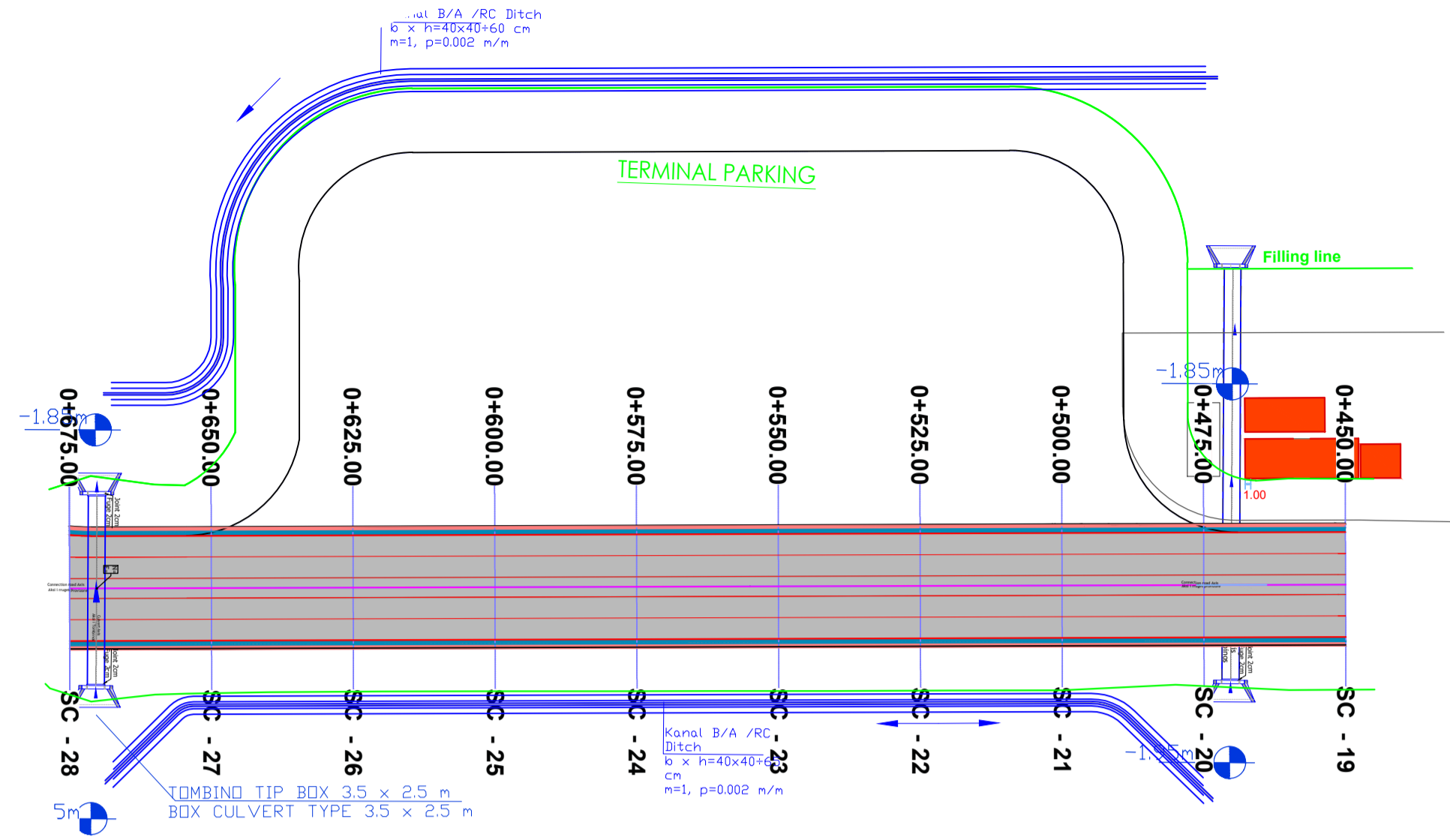
- FILLING MATERIAL TYPES (SEE SPECIFICATIONS)**
- Granular filling (Type 1) of 0-90mm; 0-75mm; 0-37.5mm aggregates, compacted at 93±98% (down + up). See ST. and Filling Report. LA ≥30% (fine crushed aggregate, limestone origin).
 - Granular filling (Type 1) of 0-150mm, aggregates, compacted at ≥90% (down + up). See ST. and Filling Report. LA ≥30% (fine crushed aggregate, limestone origin).
 - Granular filling type 3. Stabilizer 0-19mm or sand. See ST.
 - Vegetal soil layer, sand+clay mix (2:1) + grass. See ST.

- TIPET E MATERIALEVE MBUSHES (TE SHIHEN SPECIFIKIMET)**
- Mbushje granulare (Tip 1) agregatesh 0-90mm; 0-75mm; 0-37.5mm, e kompaktuesuar 93±98% (poshte + lart). Shih ST. dhe Raportin e mbushjeve. LA ≥30% (çakell minash + çakell makinerie, nga shkemb gelqeror).
 - Mbushje granulare (Tip 1) agregatesh 0-150mm, e kompaktuesuar ≥90% (poshte + lart). Shih ST. dhe Raportin e mbushjeve. LA ≥30% (çakell minash + çakell makinerie, nga shkemb gelqeror).
 - Mbushje granulare tip 3. Stabilizant 0-19mm ose rere. Shih ST.
 - Mbushje me shtrese vegjetale, mix rere+argjile (2:1) + bar. Shih ST.

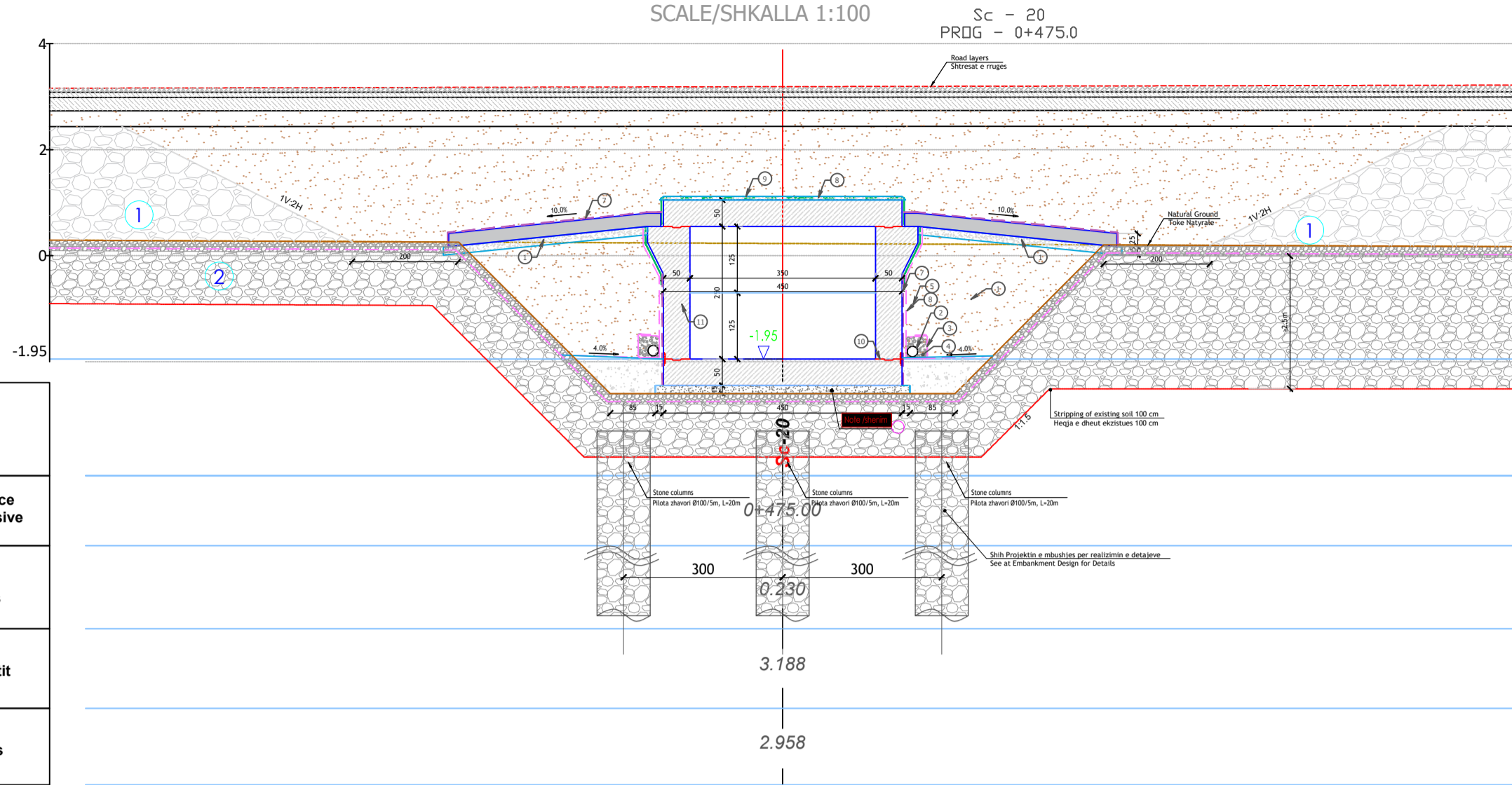
- NOTES/SHENIME:**
- Tombino dhe mbushjet (Tip 1) do te realizohen pas perudhes se parakonsolidimit (6 muaj). Gjate kesaj kohe ne pozicionin e tombinos te vendoset nje tub i perkohshem b/arme Ø100./The culverts and fillings (Type 1) will be completed after the pre-consolidation period (6 months). During this time, a temporary pipe Ø100 should be placed in the position of the culvert.
 - The final position of the culvert will be verified at the site in conjunction with the drainage system of the land. Pozicioni i tombinos do te verifikohet ne kantier ne varesi te sistemimit te drenazhit te tokave.
 - The last quota of the culvert will be adjusted on site in function of the last quota of the existing channel for the drainage of the area's lands. Kuota e fundit te tombinos do te saktësohet ne vend ne funksion te kuotes se fundit te kanalit ekzistues te sistemimit te drenazhit/kullimit te tokave te zones.
 - The culvert will be realized after the 6-month pre-consolidation period ends. Tombino do te realizohet pasi te mbaroje perudha 6 mujore e parakonsolidimit.
 - Slope should be (1:1.5). Skarpata te merrt (1:1.5).

P01	First Edition	DQ	DQ	ES	01-06-2023
Rev.	Description/Përkirimi	Drawn/Te vizuar	Checked/Kontrolluar	Approved/Miratur	Date/Date
Client/Porositës: DURRËS PORT AUTHORITY			Design Object/Objekti projektimi: Road Design Phase 1 Initial Projektimi i Ruges Faza 1 Fillëstare		
Project/Projekti: Integrated Port of Durrës in Porto Romano			Discipline/Disiplina: Road Infrastructure / Infrastruktura e Rugës		
Title/Titulli: Minor structure, Culvert (2x2)m KM 0+650.00			Revision/Rishkrim: 01		
Structure - Tombinot (2x2)m KM 0+650.00			Drawing Number/Numri i vizatimit: BI1884-ABK-04-RW-DP-S-2006		
Size/Pata	Scale/Shkalla	Phase/Faza	Sheetno./ Nr. i fletës	of / nga	
A1	1:50	Detailed Design	06	17	

GENERAL LAYOUT/ PLANIMETRIA E PËRGJITHSHME
SC./SH. 1:1000

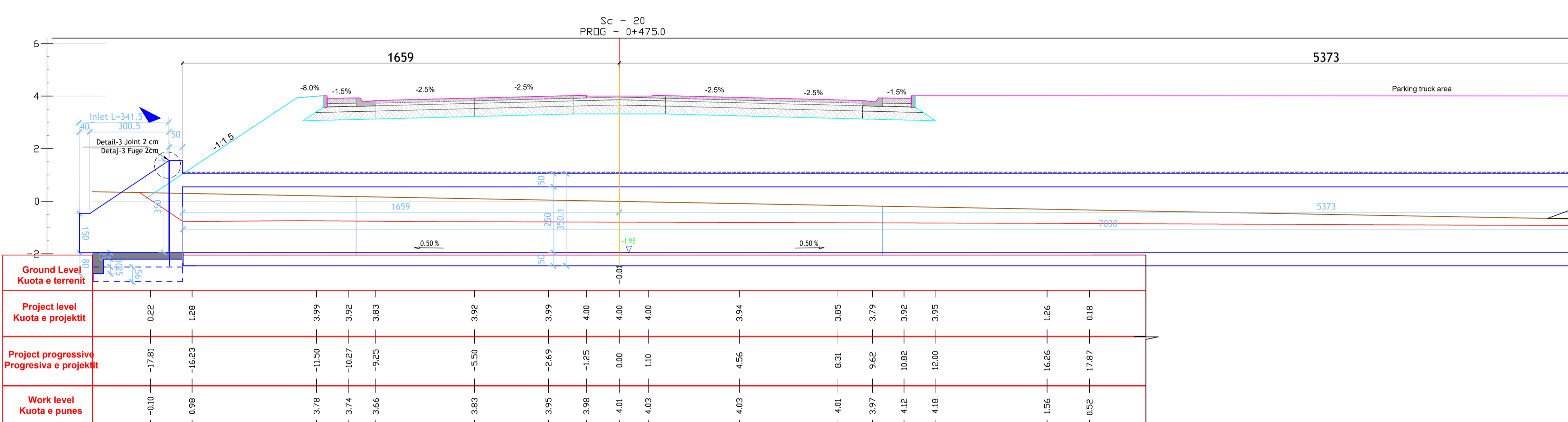


CROSS SECTION/ PRERJE TËRTHORE
SCALE/SHKALLA 1:100



Sections Seksionet
Progres. distance Distanca progresive
Ground level Kuota e tokës
Project level Kuota e projektit
Work level Kuota e punes

- DESIGN ASSUMPTIONS/ SHËNIME TEKNIKE**
- CONCRETE/ BETON**
 - Blinding concrete/ Beton i lehtësuar C12/15
 - Unreinforced mass concrete/ Beton i varfer C12/15
 - Reinforced concrete/ Beton i armuar C30/37
 - STEEL REINFORCEMENT/ ARMATURA**
 - High yield reinforcing bars/Shufrat punuese B500C
 - Reinforcing Mesh/ Zgarat B500A
 - LOADS/ NGARKESA**
 - Dead loads/ Ngarkesat e perhershme**
 - Unit weight of reinforced concrete/ Peshë e betonit te armuar 25.00KN/m³
 - Unit weight of plain concrete/ Peshë e betonit 24.00KN/m³
 - Unit weight of backfilling material/ Peshë e materialit mbushës 22.00KN/m³
 - Unit weight of water/ Peshë e ujit 10.00KN/m³
 - LIVE LOADS/NGARKESA E PERKOSHME**
 - Load Model 1 according to EN 1991-2/ Modeli 1 sipas EN 1991-2
 - Uniformly Load on footway according to EN 1991-2/ Ngarkesë e shpërndarë sipas EN 1991-2
 - EARTHQUAKE/ TERMETI**
 - Seismic Zone/ Zona sizmike
 - Reference Peak Ground Acceleration/ Shpejtësi maksimale i truallit
 - SOIL DATA/ TE DHENAT E TRUALLIT**
 - As per Geotechnical Design/ Sipas llogaritjeve gjeoteknike
 - Ground Type/ Lloji i truallit Type D/Tip D
 - NOMINAL COVER TO ALL STEEL/ SHITRESA MBROJTESE E ÇELIKUT**
 - Walls and foundation slabs in contact with soil/ Mure dhe themele ne kontakt me truallin 50 mm
 - Walls and foundation slabs in contact with water/ Mure dhe themele ne kontakt me ujin 50 mm
 - DESIGN CODES APPLICABLE / KODET PROJEKTOUES TE APLIKUARA**
 - EN 1990: Basis of structural design/ Bazat e projektimit strukturor
 - EN 1991: Actions on structures/ Veprimet ne struktura
 - EN 1992: Design of concrete structures/ Projektimi i strukturave b/a
 - EN 1993: Design of steel structures/ Projektimi i strukturave prej çeliku
 - EN 1997: Geotechnical design/ Projektimi gjeoteknik
 - EN 1998: Design of structures for earthquake resistance/ Projektimi i strukturave antisizmike
 - NTC 2008: Technical rules for building/ Norma teknike te projektimit



	0+450.00	0+475.00	0+500.00	0+525.00	0+550.00	0+575.00	0+600.00	0+625.00	0+650.00	0+675.00
Ground Level Kuota e terrenit	0.22	0.21	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Project level Kuota e projektit	-17.81	-16.23	-11.50	-10.27	-9.85	-5.50	-2.69	-1.25	0.00	1.10
Project progressive Progresiva e projektit	-17.81	-16.23	-11.50	-10.27	-9.85	-5.50	-2.69	-1.25	0.00	1.10
Work level Kuota e punes	-0.10	0.98	3.78	3.74	3.66	3.83	3.83	3.95	3.98	4.03

- FILLING MATERIAL TYPES (SEE SPECIFICATIONS)**
- Granular filling (Type 1) of 0+90mm; 0+75mm; 0+37.5mm aggregates, compacted at 93±98% (down ÷ up). See ST. and Filling Report. LA ≥30% (fine crushed aggregate, limestone origin).
 - Granular filling (Type 1) of 0+150mm, aggregates, compacted at ≥ 90% (down ÷ up). See ST. and Filling Report. LA ≥30% (fine crushed aggregate, limestone origin).
 - Granular filling type 3. Stabilizer 0+19mm or sand. See ST.
 - Vegetal soil layer, sand+clay mix (2:1) + grass. See ST.
- TIPET E MATERIALEVE MBUSHES (TE SHIHEN SPECIFIKIMET)**
- Mbushje granulare (Tip 1) agregatesh 0+90mm; 0+75mm; 0+37.5mm, e kompaktuar 93±98% (poshte ÷ lart). Shih ST. dhe Raportin e mbushjeve. LA ≥30% (çakell minash ÷ çakell makinerie, nga shkemb gelqeror).
 - Mbushje granulare (Tip 1) agregatesh 0+150mm, e kompaktuar ≥ 90% (poshte ÷ lart). Shih ST. dhe Raportin e mbushjeve. LA ≥30% (çakell minash ÷ çakell makinerie, nga shkemb gelqeror).
 - Mbushje granulare tip 3. Stabilizant 0+19mm ose rere. Shih ST.
 - Mbushje me shtrese vegetale, mix rere+argjile (2:1) + bar. Shih ST.
- NOTES/SHENIME:**
- Tombino dhe mbushjet (Tip 1) do te realizohen pas perudhes se parakonsolidimit (6 muaj). Gjate kesaj kohe ne pozicionin e tombinos te vendoset nje tub i perkoshem b/orme Ø100, the culverts and fillings (Type 1) will be completed after the pre-consolidation period (6 months). During this time, a temporary pipe Ø100 should be placed in the position of the culvert.
 - The final position of the culvert will be verified at the site in conjunction with the drainage system of the land. Pozicioni i tombinos do te verifikohet ne kantier ne varesi te sistemimit te drenazhit te tokave. Kuota e fundit te tombinos do te saktësohet ne vend ne funksion te kuotes se fundit te kanalit ekzistues te sistemimit te drenazhit/kullimit te tokave te zones.
 - The culvert will be realized after the 6-month pre-consolidation period ends. Tombino do te realizohet pasi te mbaroje perudha 6 mujore e parakonsolidimit. Skarpata te merrt (1:1.5).



3.85	3.79	3.92	3.95	1.26	0.18
8.31	9.62	10.82	12.00	16.26	17.87
0.04	0.53	1.14	1.81	2.51	3.30

Rev.	01	First Edition	DQ	DQ	ES	01-06-2023
Rev.		Description/Përshkrim	Drawn/Të vizatuar	Checked/Kontrolluar	Approved/Miratuar	Date/Date
Client/Pronostit DURRËS PORT AUTHORITY / Autoriteti Portual Durrës AUTORITETI PORTUAL DURRËS		Design Object/Objekt projektimi Road Design Phase 1 Initial Projekti i Rrugës Faza 1 Fillëstare				
Project/Projekt Integrated Port of Durrës in Porto Romano Porti i Integruar i Durrësit në Porto Romano		Discipline/Disipline Road Infrastructure / Infrastruktura e Rrugës				
Title/Titull Minor structure design-culvert box type 3.5x2.5m KM Strukturat - Tombino 3.5x2.5m KM 0+475		Revision/Rishkrim 01				
Scale/Peta	Scale/Shkalla	Phase/Faza	Sheetno./Nr. i fletës	of/nga	Drawing Number/Nomri i vizatimit	
A1	1:50	Detailed Design	07	17	B11884-ABK-04-RW-DP-S-2007	

- CONCRETE/ BETON
 - Blinding concrete/ Beton i lehtësuar C12/15
 - Unreinforced mass concrete/ Beton i varfer C12/15
 - Reinforced concrete/ Beton i armuar C30/37
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 - Uniformly Load on footway according to EN 1991-2/ Ngarkesë e shpërndarë sipas EN 1991-2
- EARTHQUAKE/ TERMETI
 - Seismic Zone/ Zona sizmike
 - Reference Peak Ground Acceleration/ Shpejtësi maksimale i trullit
- SOIL DATA/ TE DHENAT E TRUALLIT
 - As per Geotechnical Design/ Sipas logaritjeve gjeoteknike
 - Ground Type/ Lloji i truallit Type D/Tip D
- NOMINAL COVER TO ALL STEEL/ SHTRESA MBROJTESE E ÇELIKUT
 - Walls and foundation slabs in contact with soil/ Mure dhe themele ne kontakt me truallin 50 mm
 - Walls and foundation slabs in contact with water/ Mure dhe themele ne kontakt me ujin 50 mm
- DESIGN CODES APPLICABLE / KODET PROJEKTORESE TE APLIKUARA
 - EN 1990: Basis of structural design/ Bazat e projektimit strukturor
 - EN 1991: Actions on structures/ Veprimet ne struktura
 - EN 1992: Design of concrete structures/ Projektimi i strukturave b/a
 - EN 1993: Design of steel structures/ Projektimi i strukturave prej çeliku
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 - EN 1998: Design of structures for earthquake resistance/ Projektimi i strukturave antisizmike
 - NTC 2008: Technical rules for building/ Norma teknike te projektimit

FILLING MATERIAL TYPES (SEE SPECIFICATIONS)

- 1) Granular filling (Type 1) of 0-90mm; 0-75mm; 0-37.5mm aggregates, compacted at 93-98% (down + up). See ST. and Filling Report. LA ≥30% (fine crushed aggregate, limestone origin).
- 2) Granular filling (Type 1) of 0-150mm, aggregates, compacted at ≥ 90% (down + up). See ST. and Filling Report. LA ≥30% (fine crushed aggregate, limestone origin).
- 3) Granular filling type 3. Stabilizer 0-19mm or sand. See ST.
- 4) Vegetal soil layer, sand+clay mix (2:1) + grass. See ST.

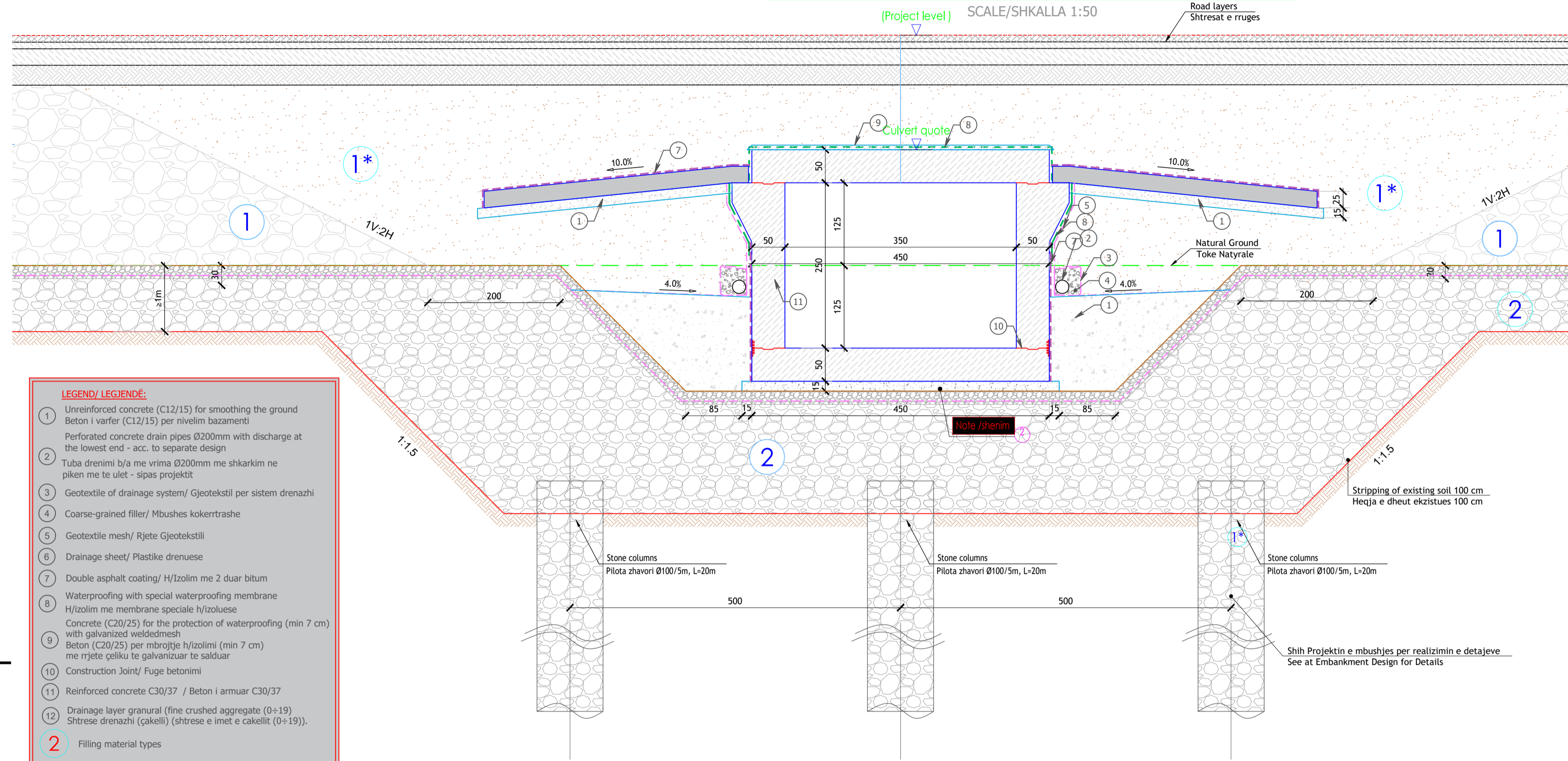
TIPET E MATERIALEVE MBUSHJE (TE SHIHEN SPECIFIKIMET)

- 1) Mbushje granulare (Tip 1) agregatesh 0-90mm; 0-75mm; 0-37.5mm, e kompaktuar 93-98% (poshte + lart). Shih ST. dhe Raportin e mbushjeve.
- 2) Mbushje granulare (Tip 1) agregatesh 0-150mm, e kompaktuar ≥ 90% (poshte + lart). Shih ST. dhe Raportin e mbushjeve.
- 3) Mbushje granulare tip 3. Stabilizant 0-19mm ose rere. Shih ST.
- 4) Mbushje me shtese vegjetiale, mix rere+argjile (2:1) + bar. Shih ST.

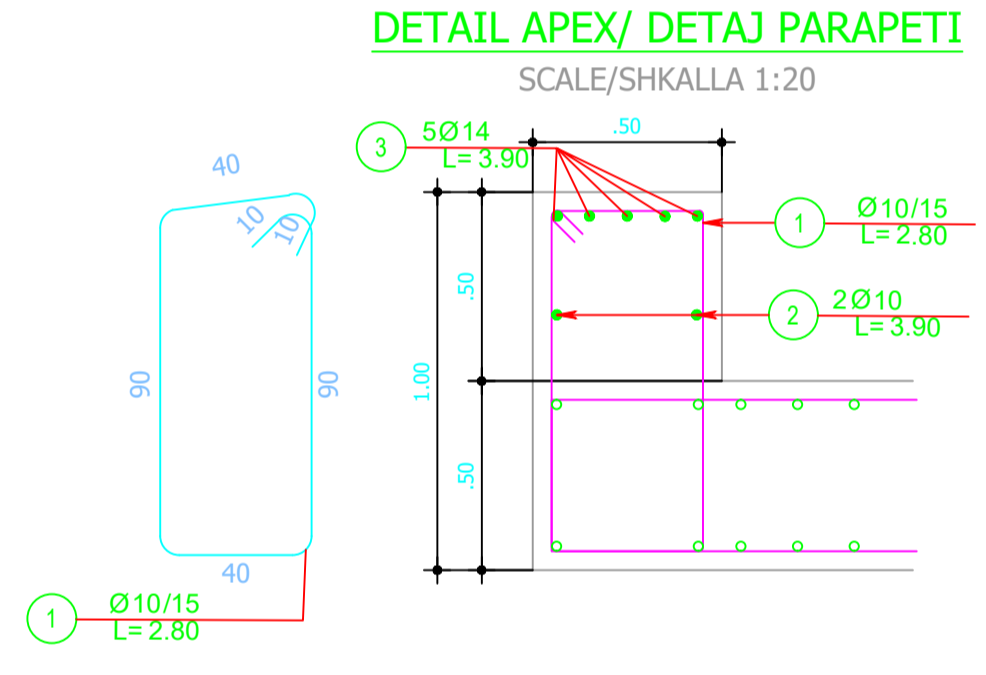
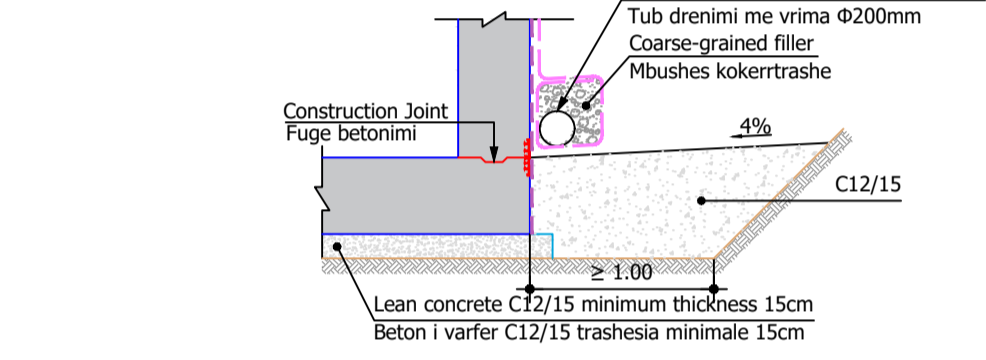
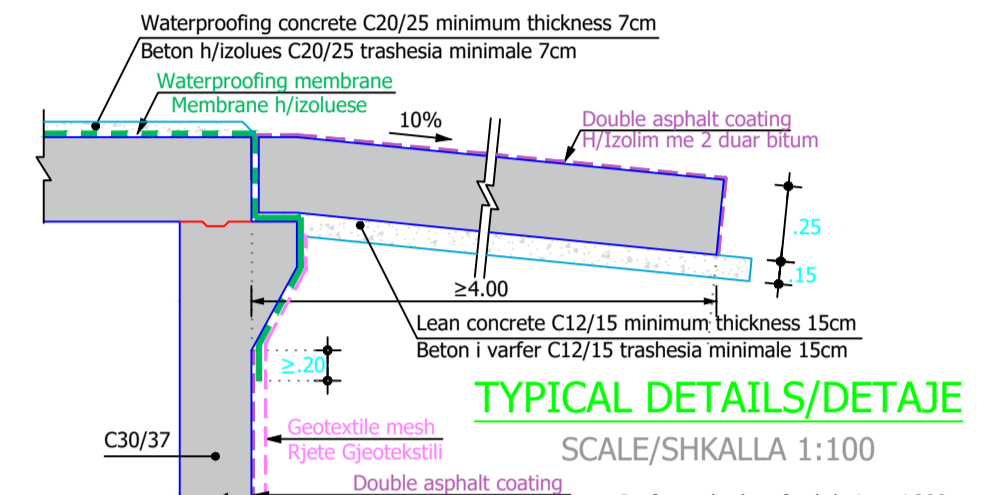
NOTES/SHENIME:

- 1*) Tombino dhe mbushjet (Tip 1) do te realizohen pas perudhes se parakonsolidimit (6 muaj). Gjate kesaj kohe ne pozicionin e tombinos do vendoset nje tub i perkohshem b/arme Ø100, The culverts and fillings (Type 1) will be completed after the pre-consolidation period (6 months). During this time, a temporary pipe Ø100 should be placed in the position of the culvert.
- 2) The final position of the culvert will be verified at the site in conjunction with the drainage system of the land. Pozicioni i tombinos do te verifikohet ne kantier ne varesi te sistemimit te drenazhit te tokave.
- 3) The culvert will be realized after the 6-month pre-consolidation period ends. Tombino do te realizohet pasi te mbaroje periudha 6 mujore e parakonsolidimit.
- 4) Slope should be (1:1.5). Skarpata te merrt (1:1.5).

CROSS SECTION SC.20/ PRERJE TËRTHORE SC.20 KM 0+475.00

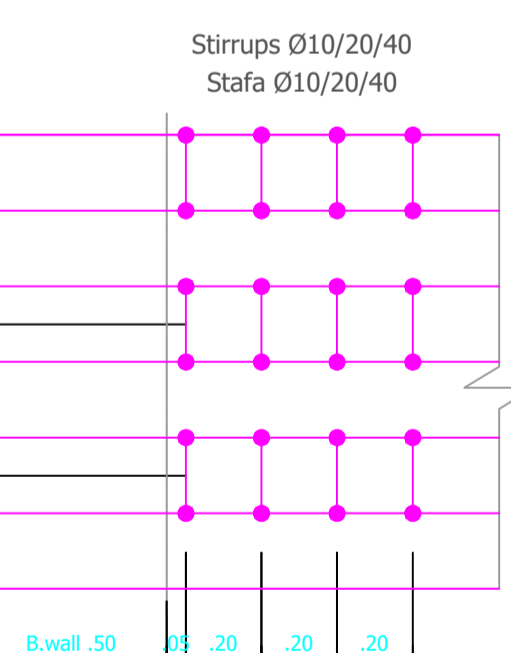


- LEGJENDE/ LEGJENDE:**
- 1) Unreinforced concrete (C12/15) for smoothing the ground Beton i varfer (C12/15) per nivelim bazamentit
 - 2) Perforated concrete drain pipes Ø200mm with discharge at the lowest end - acc. to separate design
 - 3) Tuba drenimi b/a me vrime Ø200mm me shkarkim ne piken me te ulet - sipas projektit
 - 4) Geotextile of drainage system/ Gjeotekstil per sistem drenazhi
 - 5) Coarse-grained filler/ Mbushje kokërtrashes
 - 6) Geotextile mesh/ Rjete Gjeotekstili
 - 7) Drainage sheet/ Plastike drenuese
 - 8) Double asphalt coating/ H/Izolim me 2 duar bitum
 - 9) Waterproofing with special waterproofing membrane H/Izolim me membrane speciale h/izoluese
 - 10) Concrete (C20/25) for the protection of waterproofing (min 7 cm) with galvanized welded mesh Beton (C20/25) per mbrojtje h/izolimi (min 7 cm) me rrjete çeliku te galvanizuar te salduar
 - 11) Construction Joint/ Fuge betonimi
 - 12) Reinforced concrete C30/37 / Beton i armuar C30/37
 - 13) Drainage layer granular (fine crushed aggregate 0-19) Shtrese drenazhi (çakalli) (shtrese e imet e çakalli) (0-19).
 - 2) Filling material types



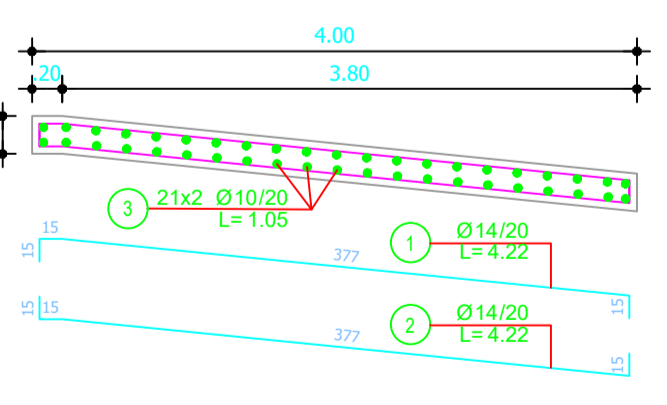
STIRRUPS ORDER POZICIONIMI I STAFAVE

SCALE /SHKALLA 1:20



APPROACH SLAB REINFORCEMENT ARMIMI I SOLETËS RAKORDUESE

SCALE / SHKALLA 1:50



BOX CULVERT 3.5x2.5m, APPROACH SLAB REINFORCEMENT TABLE

No. Position Nr. Pozicioni	Diameter Diametri [mm]	Length Gjatesia [cm]	Quantity Sasia [pieces]	Total Reinforcement		
				Total Length Gjatesia tot. [m]	Steel Weight Peshë e shufres [kg/m]	Total Weight Peshë tot. [ton]
1	10	280	26	72.80	10	0.617
2	10	390	2	7.80	14	1.208
3	14	390	5	19.50	14	1.208
				(1 apex) / (1 parapet) E = 0.073		

Reinforcement table/ Tabela e armimit

BOX CULVERT 3.5x2.5m, APPROACH SLAB REINFORCEMENT TABLE

No. Position Nr. Pozicioni	Diameter Diametri [mm]	Length Gjatesia [cm]	Quantity Sasia [pieces]	Total Reinforcement / Armimi total		
				Total Length Gjatesia tot. [m]	Steel Weight Peshë e shufres [kg/m]	Total Weight Peshë tot. [ton]
1	14	422	5	21.10	10	0.617
2	14	422	5	21.10	14	1.208
3	10	105	42	44.10	14	1.208
				(1 meter approach slab) Σ = 0.078		
				(1 meter solete rakorduese) Σ = 0.078		

BOX CULVERT 3.5x2.5 REINFORCEMENT TABLE

TOMBINO KUTI 3.5x2.5 TABELA E HEKURAVE

No. Position Nr. Pozicioni	Diameter Diametri [mm]	Length Gjatesia [cm]	Quantity Sasia [pieces]	Total Reinforcement / Armimi total			
				Total Length Gjatesia tot. [m]	Diameter Diametri [mm]	Total Length Gjatesia tot. [m]	Steel Weight Peshë e shufres [kg/m]
1	18	530	6.25	33.13	10	229.20	0.617
2	18	520	8	41.60	14	57.20	1.208
3	18	520	8	41.60	18	249.78	1.998
4	18	534	5	26.70			
5	18	434	6.25	27.13			
6	18	420	6.25	26.25			
5a	18	434	6.25	27.13			
6a	18	420	6.25	26.25			
7	10	120	40	48.00			
8	10	60	50	30.00			
9	10	105	144	151.20			
10	14	286	20	57.20			
				(1 meter Culvert) Σ = 0.709			
				(1 meter tombino) Σ = 0.709			

Rev.	Description/ Përshkrim	Drawn/ Te vizuar	Checked/ Kontrolluar	Approved/ Miratuar	Date/ Data
001	First Edition	DQ	DQ	ES	01-06-2023

Client/ Përbërës: DURRËS PORT AUTHORITY / Autoriteti Portual Durrës

Project/ Projekti: Integrated Port of Durrës in Porto Romano / Porti i Integruar i Durrësit në Porto Romano

Title/ Titulli: Minor structure design-culvert box type 3.5x2.5m KM 0+475 / Strukturat - Tombino 3.5x2.5m KM 0+475

Scale/ Shkalla: 1:50

Phase/ Faza: Detailed Design

Sheet/ Nr. i fletës: 08

of pages/ nga: 17

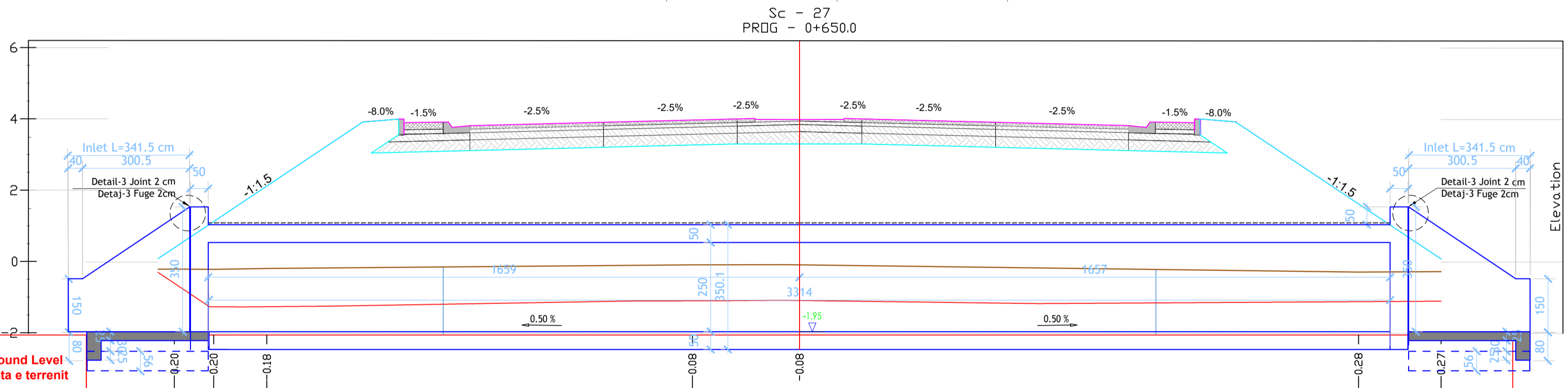
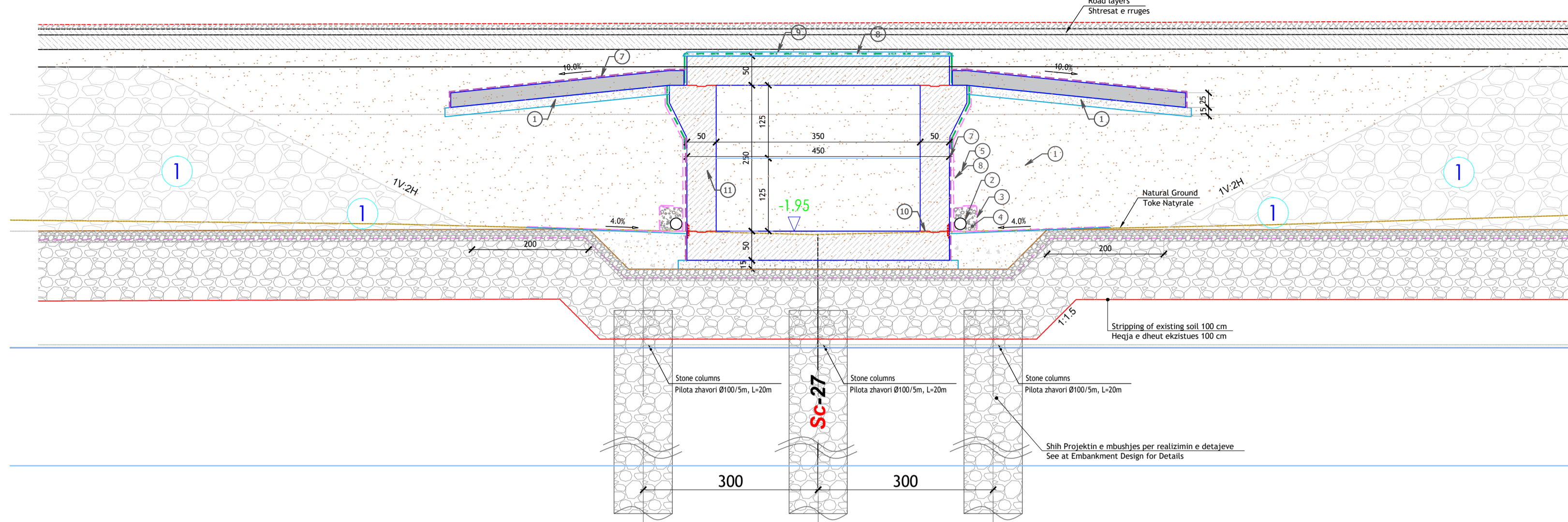
Revision/ Përkrahje: 01

Drawing Number/ Numri i vizimit: B11884-ABK-04-RP-S-2008

GENERAL LAYOUT/ PLANIMETRIA E PËRGJITHSHME
SC./SH. 1:1000

CROSS SECTION/ PRERJE TËRTHORE

SCALE/SHKALLA 1:100
Sc - 27
PRDG - 0+650.0

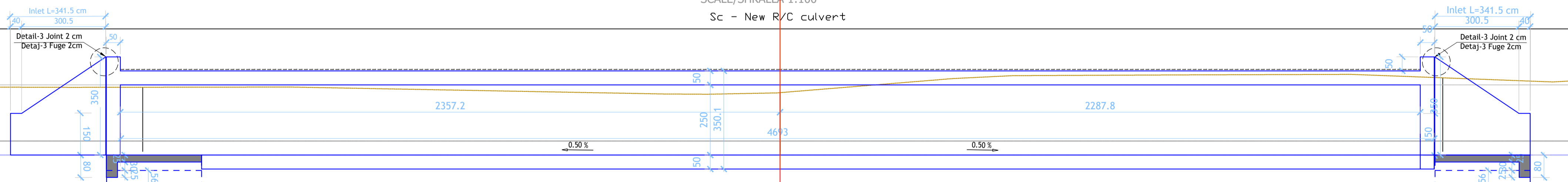


Ground Level <i>Kuota e terrenit</i>	17.54	16.44	14.95	14.18	13.01	11.95	10.95	10.00	9.00	8.00	7.00	6.00	5.00	4.00	3.00	2.00	1.00	0.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00			
ground progressive <i>Progressiva e terrenit</i>	-17.54	-16.44	-14.95	-14.18	-13.01	-11.95	-10.95	-10.00	-9.00	-8.00	-7.00	-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00				
Project level <i>Kuota e projektit</i>	0.10	0.10	2.69	3.99	3.92	3.83	3.89	3.92	3.99	4.00	4.00	4.00	3.95	3.92	3.86	3.83	3.92	3.96	4.06	4.36	5.50	8.10	9.23	10.75	11.95	14.6	18.00	18.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Project progressive <i>Progressiva e projektit</i>	-18.00	-18.00	-14.12	-11.55	-10.33	-9.25	-6.64	-5.50	-2.89	-1.25	0.00	1.07	4.36	5.50	8.10	9.23	10.75	11.95	-15.68	16.26	16.36	16.36	16.36	16.36	16.36	16.36	16.36	16.36	16.36	16.36	16.36	16.36	16.36	16.36	16.36	16.36	16.36	16.36	
Work level <i>Kuota e punes</i>	0.30	0.30	2.85	4.13	4.06	3.96	4.00	4.02	4.06	4.07	4.08	4.09	4.08	4.07	4.04	4.02	4.13	4.19	1.46	16.36	16.36	16.36	16.36	16.36	16.36	16.36	16.36	16.36	16.36	16.36	16.36	16.36	16.36	16.36	16.36	16.36	16.36	16.36	16.36

LONGITUDINAL SECTION/ PRERJE GJATESORE

SCALE/SHKALLA 1:100

Sc - New R/C culvert



Sections <i>Seksionet</i>	Sc-2	Sc-3	Sc-4
Progres. distance <i>Distanca progresive</i>	0+027.23	0+050.00	0+073.68
Ground level <i>Kuota e tokes</i>	-0.083	-0.276	0.254
Project level <i>Kuota e projektit</i>	-0.083	-0.276	0.254
Work level <i>Kuota e punes</i>	0.000	0.000	0.000

DESIGN ASSUMPTIONS/ SHËNIME TEKNIKE

- CONCRETE/ BETON**
 - Blinding concrete/ Beton i lehtësuar C12/15
 - Unreinforced mass concrete/ Beton i varfer C12/15
 - Reinforced concrete/ Beton i armuar C30/37
- STEEL REINFORCEMENT/ ARMATURA**
 - High yield reinforcing bars/Shufrat punuese B500C
 - Reinforcing Mesh/ Zgarat B500A
- LOADS/ NGARKESA**
 - Dead loads/ Ngarkesat e përhershme**
 - Unit weight of reinforced concrete/ Peshë e betonit të armuar 25.00KN/m³
 - Unit weight of plain concrete/ Peshë e betonit 24.00KN/m³
 - Unit weight of backfilling material/ Peshë e materialit mbushës 22.00KN/m³
 - Unit weight of water/ Peshë e ujit 10.00KN/m³
 - LIVE LOADS/NGARKESA E PERKOHSHME**
 - Load Model 1 according to EN 1991-2/ Modelli 1 sipas EN 1991-2
 - Uniformly Load on footway according to EN 1991-2/ Ngarkese e shpërndare sipas EN 1991-2
- EARTHQUAKE/ TERMETI**
 - Seismic Zone/ Zona sizmike
 - Reference Peak Ground Acceleration/ Shpejtimi maksimal i truallit
- SOIL DATA/ TE DHENAT E TRUALLIT**
 - As per Geotechnical Design/ Sipas llogaritjeve gjeoteknike
 - Ground Type/ Lloji i truallit Type D/Tip D
- NOMINAL COVER TO ALL STEEL/ SHITESA MBROJTESE E ÇELIKUT**
 - Walls and foundation slabs in contact with soil/ Mure dhe theme në kontakt me truallin 50 mm
 - Walls and foundation slabs in contact with water/ Mure dhe theme në kontakt me ujin 50 mm
- DESIGN CODES APPLICABLE / KODET PROJEKTORE TE APLIKUARA**
 - EN 1990: Basis of structural design/ Bazat e projektimit strukturor
 - EN 1991: Actions on structures/ Veprimet në struktura
 - EN 1992: Design of concrete structures/ Projektimi i strukturave b/a
 - EN 1993: Design of steel structures/ Projektimi i strukturave prej çeliku
 - EN 1997: Geotechnical design/ Projektimi gjeoteknik
 - EN 1998: Design of structures for earthquake resistance/ Projektimi i strukturave antisizmike
 - NTC 2008: Technical rules for building/ Norma teknike të projektimit

FILLING MATERIAL TYPES (SEE SPECIFICATIONS)

- 1) Granular filling (Type 1) of 0+90mm; 0+75mm; 0+37.5mm aggregates, compacted at 93±98% (down + up). See ST, and Filling Report.
LA ≥30% (fine crushed aggregate, limestone origin).
- 2) Granular filling (Type 1) of 0+150mm, aggregates, compacted at ≥ 90% (down + up). See ST, and Filling Report.
LA ≥30% (fine crushed aggregate, limestone origin).
- 3) Granular filling type 3. Stabilizer 0+19mm or sand. See ST.
- 4) Vegetal soil layer, sand+clay mix (2:1) + grass. See ST.

TIPET E MATERIEVE MBUSHES (TE SHIHEN SPECIFIKIMET)

- 1) Mbusheje granulare (Tip 1) agregatsh 0+90mm; 0+75mm; 0+37.5mm, e kompaktuesuar 93±98% (poshte + lart).
Shih ST, dhe Raportin e mbushjeve.
LA ≥30% (çakelli minash + çakelli makinerie, nga shkëmb qelqeror).
- 2) Mbusheje granulare (Tip 1) agregatsh 0+150mm, e kompaktuesuar ≥ 90% (poshte + lart).
Shih ST, dhe Raportin e mbushjeve.
LA ≥30% (çakelli minash + çakelli makinerie, nga shkëmb qelqeror).
- 3) Mbusheje granulare tip 3. Stabilizant 0+19mm ose rere. Shih ST.
- 4) Mbusheje me shtrese vegjetale, mix rere+argjile (2:1) + bar. Shih ST.

NOTES/SHENIME:

- 1) Tombino dhe mbushjet (Tip 1) do të realizohen pas periudhes së parakonsolidimit (6 muaj). Gjate kesaj kohe në pozicionin e tombinos të vendoset një tub i perkoeshëm b/orme Ø100. The culverts and fillings (Type 1) will be completed after the pre-consolidation period (6 months). During this time, a temporary pipe Ø100 should be placed in the position of the culvert.
- 2) The final position of the culvert will be verified at the site in conjunction with the drainage system of the land. Pozicioni i tombinos do të verifikohet në kantier në varesi të sistemimit të drenazhit të tokave.
- 3) The last quota of the culvert will be adjusted on site in function of the last quota of the existing channel for the drainage of the area's lands. Kuota e fundit të tombinos do të saktësohet në vend në funksion të kuotes së fundit të kanalit ekzistues të sistemimit të drenazhit/kullimit të tokave të zones.
- 4) The culvert will be realized after the 6-month pre-consolidation period ends. Tombino do të realizohet pasi të mbarojë periudha 6 mujore e parakonsolidimit.
Slope should be (1:1.5).
Skarpata të merrt (1:1.5).

Rev	First Edition	DQ	DQ	ES	01-06-2023
	Description/ Përkrahim	Drawn/ Të vizatuar	Checked/ Kontrolluar	Approved/ Miratuar	Date/ Data

abkons **ADEC** **TALANT shtep** **GEO ENG** **Royal HaskoningDHV**

Client/ Poroqesuesi: **DURRËS PORT AUTHORITY** **Autoriteti Portual Durrës**

Design Object/ Objekti i projektimit: **Road Design Phase 1 Initial Projecti i Rrugës Faza 1 Fillëstare**

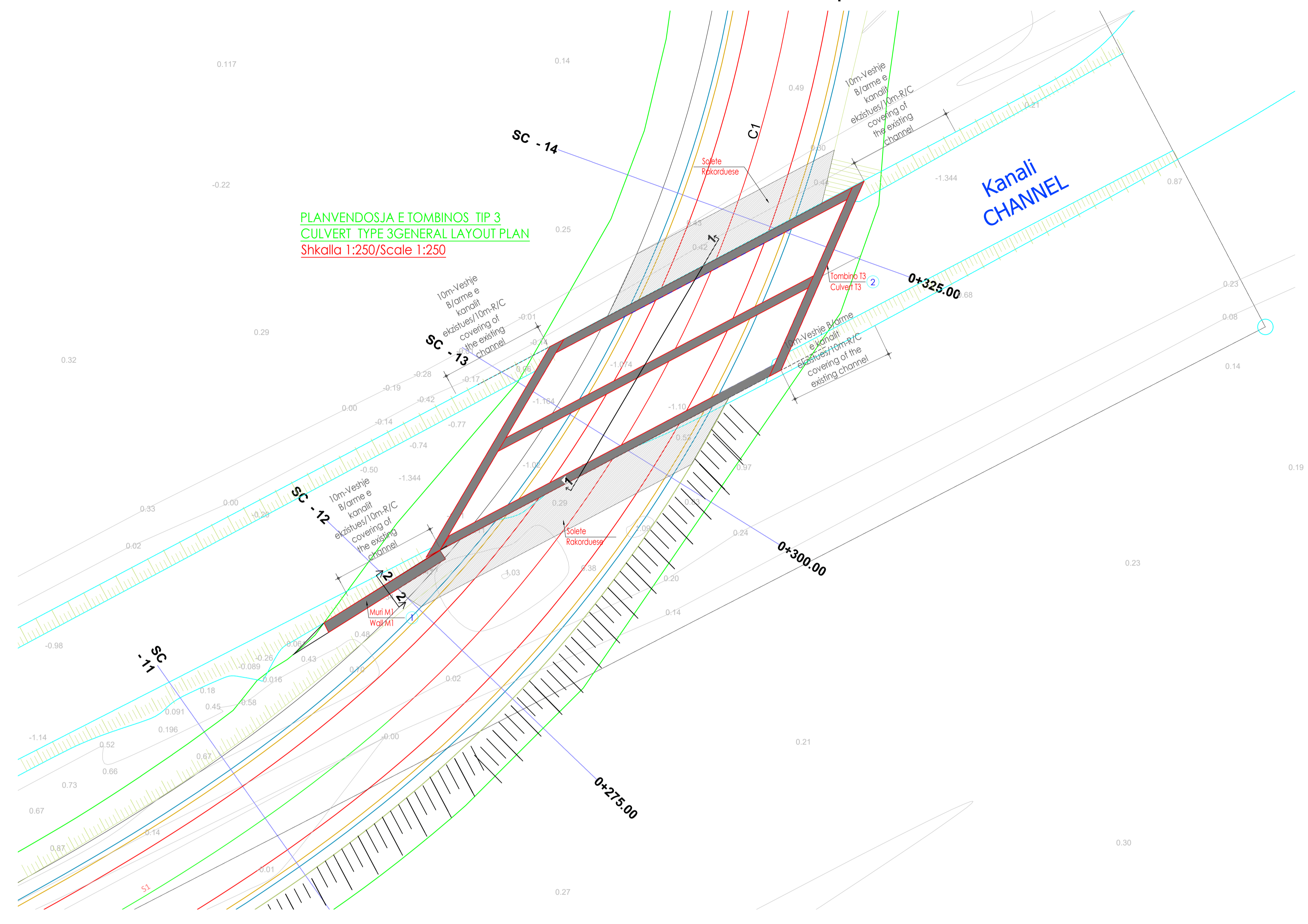
Project/ Projekti: **Integrated Port of Durrës in Porto Romano**

Discipline/ Disiplina: **Road Infrastructure / Infrastruktura e Rrugës**

Title/ Titulli: **Minor structure design-culvert box type 3.5x2.5m KM 0+650**

Structurat - Tombino 3.5x2.5m KM 0+650

Scale/Pata: **A1** | Scale/ Shkalla: **1:50** | Phase/ Faza: **Detailed Design** | Sheet/ Nr. i fletës: **09** | of pages: **17** | Drawing Number/ Numri i vizatimit: **BI1884-ABK-04-RW-DP-S-2009** | Revision/ Rishkrimi: **01**



PLANVENDOSJA E TOMBINOS TIP 3
 CULVERT TYPE 3 GENERAL LAYOUT PLAN
 Shkalla 1:250/Scale 1:250

Legend:

- Lane of the road/Korsi e rruges
- Fill area/Zona e mbushjes
- Culvert / Tombino
- Earth drainage channel./Devijimi i kanalit kullues

- FILLING MATERIAL TYPES (SEE SPECIFICATIONS)**
- 1) Granular filling (Type 1) of 0+90mm; 0+75mm; 0+37.5mm aggregates, compacted at 93+98% (down + up). See ST. and Filling Report. LA ≥30% (fine crushed aggregate, limestone origin).
 - 2) Granular filling (Type 1) of 0+150mm, aggregates, compacted at ≥90% (down + up). See ST. and Filling Report. LA ≥30% (fine crushed aggregate, limestone origin).
 - 3) Granular filling type 3. Stabilizer 0+19mm or sand. See ST.
 - 4) Vegetal soil layer, sand+clay mix (2:1) + grass. See ST.

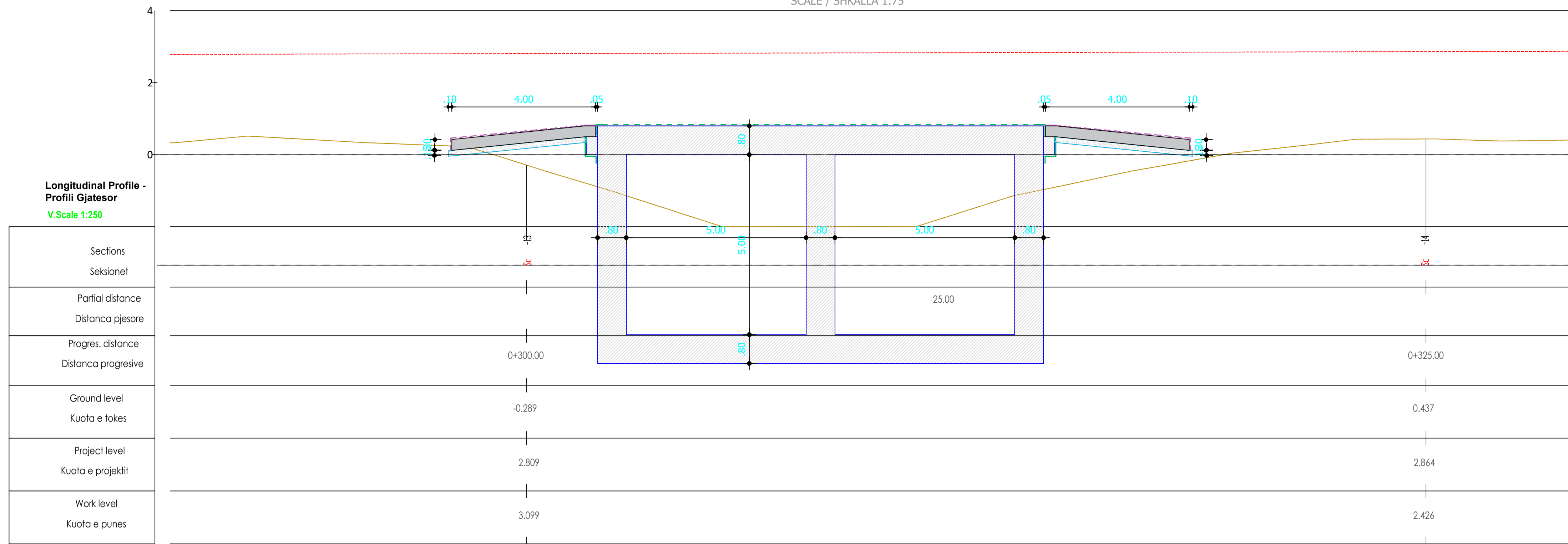
- TIPET E MATERIALEVE MBUSHES (TE SHIHEN SPECIFIKIMET)**
- 1) Mbushje granulare (Tip 1) agregatesh 0+90mm; 0+75mm; 0+37.5mm, e kompaktuar 93+98% (poshte + lart). Shih ST. dhe Raportin e mbushjeve. LA ≥30% (çakell minash + çakell makinerie, nga shkemb gelqeror).
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 - 3) Mbushje granulare tip 3. Stabilizant 0+19mm ose rere. Shih ST.
 - 4) Mbushje me shtrese vegetatale, mix rere+argjile (2:1) + bar. Shih ST.

- NOTES/SHENIME:**
- 1*) Tombino dhe mbushje (Tip 1) do te realizohen pas periudhes se parakonsolidimit (6 muaj). Gjate kesaj kohe ne pozicionin e tombinos te vendoset rreze tub i perkohshem b/arre Ø100. The culverts and fillings (Type 1) will be completed after the pre-consolidation period (6 months). During this time, a temporary pipe Ø100 should be placed in the position of the culvert.
 - 1) The final position of the culvert will be verified at the site in conjunction with the drainage system of the land. Pozicioni i tombinos do te verifikohet ne kantier ne varesi te sistemimit te drenazhit te tokave.
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 - 3) The culvert will be realized after the 6-month pre-consolidation period ends. Tombino do te realizohet pasi te mbarojë periudha 6 mujore e parakonsolidimit.
 - 4) Slope should be (1:1.5). Skarpata te merrt (1:1.5).

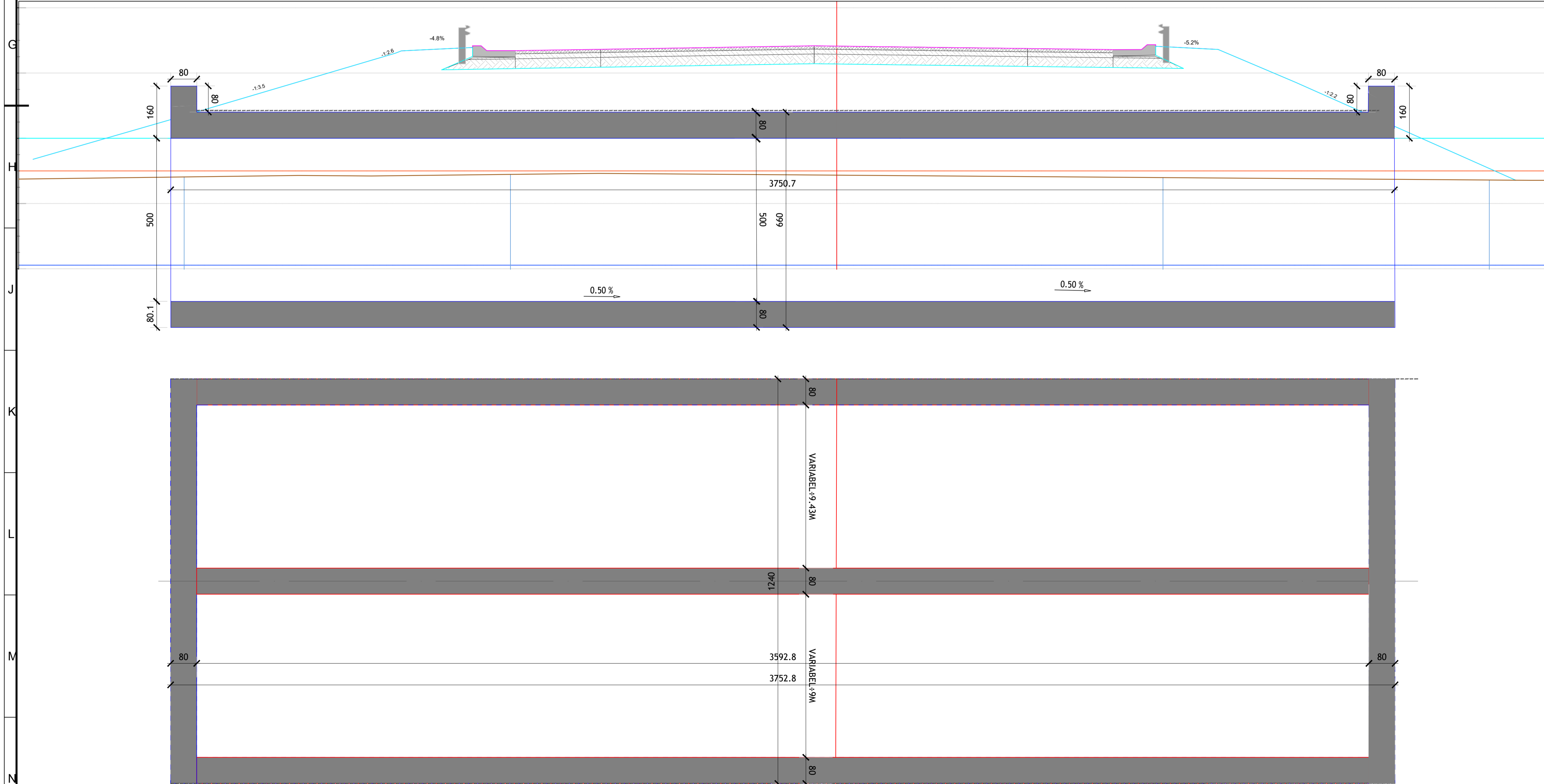
Rev.	Description/Përkirimi	DG	DQ	ES	01-06-2023
		Drawn/Të vizatuar	Checked/Kontrolluar	Approved/Miratuar	Date/ Data

Client/Pronostit DURRËS PORT AUTHORITY / Autoriteti Portual Durrës AUTORITETI PORTUAL DURRËS	Design Object/Objekti projektimi Road Design Phase 1 Initial Projekti i Rrugës Faza 1 Fillëstare
Project/Projekti Integrated Port of Durrës in Porto Romano Porti i Integruar i Durrësit në Porto Romano	Discipline/Disiplina Road Infrastructure / Infrastruktura e Rrugës
Title/Titulli Minor structures/Strukturat e vogla Culvert box type / Tombino tip box T3 - 2(5x5)m	
Size/Përa A1	Scale/Shkalla 1:75
Phase/Faza Detailed Design	Drawing Number/Nomri i vizatimit BI1884-ABK-04-RW-DP-S-2010

CROSS SECTION/PROFIL TËRTHOR
SCALE / SHKALLA 1:75



LONGITUDINAL SECTION/PROFIL GJATESOR Sc - Tombino Type 3 -PROG - 0+312.2
SCALE / SHKALLA 1:75



DESIGN ASSUMPTIONS/ SHËNIME TEKNIKE

- CONCRETE/ BETON
 - . Blinding concrete/ Beton i lehtësuar C12/15
 - . Unreinforced mass concrete/ Beton i varfer C12/15
 - . Reinforced concrete/ Beton i armuar C30/37
- STEEL REINFORCEMENT/ ARMATURA
 - . High yield reinforcing bars/Shufrat punuese B500C
 - . Reinforcing Mesh/ Zgarat B500A
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 - . Unit weight of reinforced concrete/ Peshë e betonit te armuar 25.00KN/m³
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 - . Uniformly Load on footway according to EN 1991-2/ Ngarkesë e shpërndarë sipas EN 1991-2
- EARTHQUAKE/ TERMETI
 - . Seismic Zone/ Zona sizmike
 - . Reference Peak Ground Acceleration/ Shpejtimi maksimal i trullit
- SOIL DATA/ TE DHENAT E TRUALLIT
 - . As per Geotechnical Design/ Sipas llogaritjeve gjeoteknike
 - . Ground Type/ Lloji i truallit Type D/Tip D
- NOMINAL COVER TO ALL STEEL/ SHITESA MBROJTËSE E ÇELIKUT
 - . Walls and foundation slabs in contact with soil/ Mure dhe themele ne kontakt me truallin 50 mm
 - . Walls and foundation slabs in contact with water/ Mure dhe themele ne kontakt me ujin 50 mm
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 - . EN 1990: Basis of structural design/ Bazat e projektimit strukturor
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 - . EN 1993: Design of steel structures/ Projektimi i strukturave prej çeliku
 - . EN 1997: Geotechnical design/ Projektimi gjeoteknik
 - . EN 1998: Design of structures for earthquake resistance/ Projektimi i strukturave antisizmike
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- 4) Vegetal soil layer, sand+clay mix (2:1) + grass. See ST.

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- 3) Mbushje granulare tip 3. Stabilizant 0+19mm ose rere. Shih ST.
- 4) Mbushje me shtrese vegjetale, mix rere+argjille (2:1) + bar. Shih ST.

NOTES/SHËNIME:

- 1*) Tombino dhe mbushjet (Tip 1) do te realizohen pas perudhes se parakonsolidimit (6 muaj). Gjate kesaj kohe ne pozicionin e tombinos te vendoset nje tub i perkohshem b/arme Ø100. The culverts and fillings (Type 1) will be completed after the pre-consolidation period (6 months). During this time, a temporary pipe Ø100 should be placed in the position of the culvert.
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 - 3) The culvert will be realized after the 6-month pre-consolidation period ends. Tombino do te realizohet pasi te mbarohet perudha 6 mujore e parakonsolidimit.
 - 4) Slope should be (1:1.5). Skarpata te merrt (1:1.5).

Rev.	Description/Përshkrim	DG	DQ	ES	01-06-2023
P01	First Edition				
		Drawn/Të vizatuar	Checked/Kontrolluar	Approved/Miratur	Date/ Data

abkons
LOCAL KNOWLEDGE. GLOBAL STANDARDS

ADEC
ADVANCED DESIGN ENGINEERING CONSULTANCY

TALANT s.h.p.k.
Design & Supervision

GEO ENG
Geotechnical Engineering

Royal HaskoningDHV
Enhancing Society Together

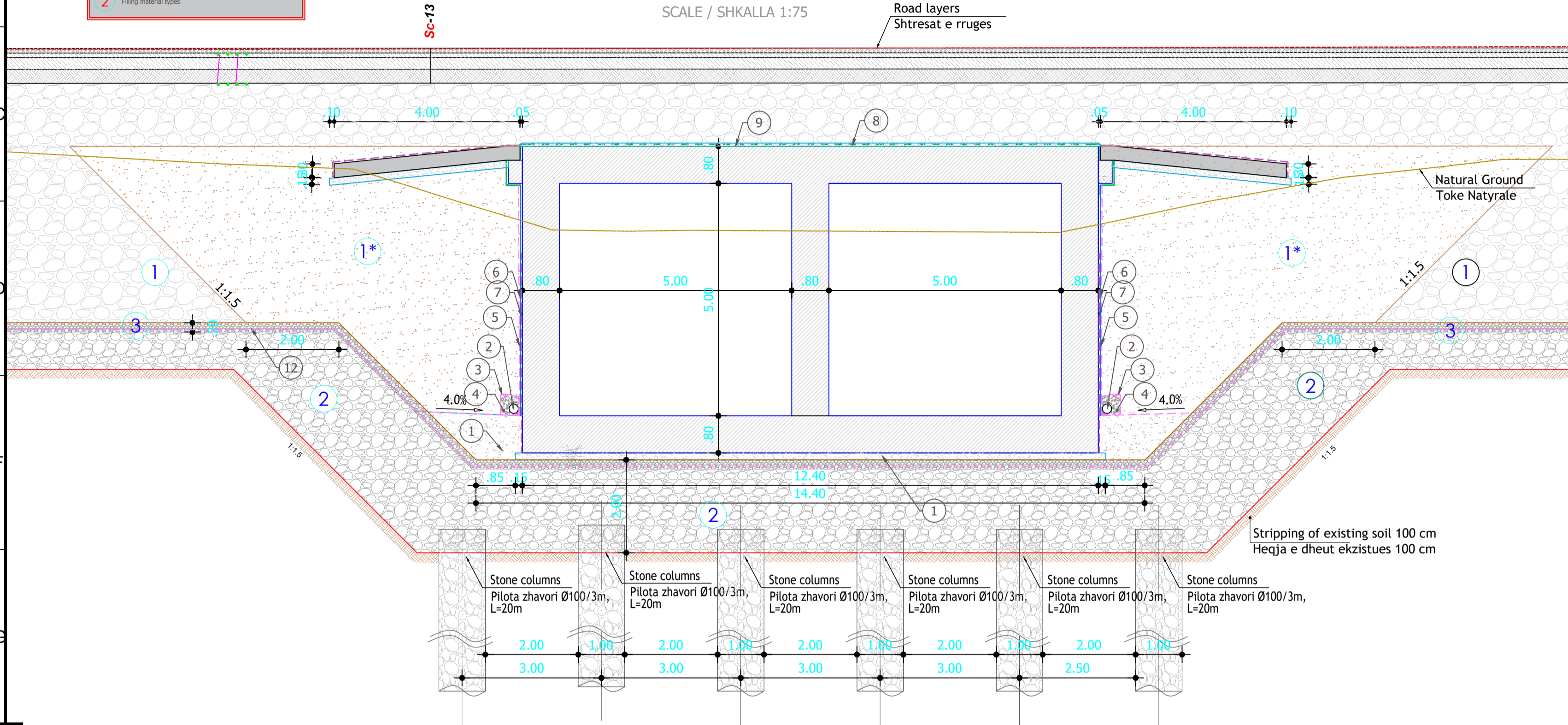
Client/Porositës	DURRËS PORT AUTHORITY AUTORITETI PORTUAL DURRËS	Design Object/Objekt projektimi	Road Design Phase 1 Initial Projekti i Rrugës Faza 1 Fillëstare
Project/Projekti	Integrated Port of Durrës in Porto Romano Porti i Integruar i Durrësit në Porto Romano	Discipline/Disiplina	Road Infrastructure / Infrastruktura e Rrugës
Title/Titulli	Tombino tip box T3 -2(5x5)m Curvert box type T3- 2(5x5)	Revision/Rishkrim	01
Scale/Shkalla	1:75	Phase/Faza	Detailed Design
Sheet/No. i bllokut	11	of pages/ nga	17
Drawing Number/Numri i vizatimit	B11884-ABK-04-RW-DP-S-2011		

LEGJENDA/SHENIME

- Unreinforced concrete (C12/15) for smoothing the ground before works (C12/15) për nivelim tokësor.
- Perforated concrete drain pipes Ø200mm with discharge at the lowest end - see. to separate design.
- Tube drains but no vents Ø200mm me shkëmbim në pikën më të ulët - sipas projektit.
- Geotextile of drainage system/ Gjeotekstil për sistemin drenazhues.
- Coarse-grained filler/ Mbushjes kokërrtrashë.
- Gravelly mesh/ Rrjetë Gjeotekstili.
- Drainage sheet/ Fletë drenazhuese.
- Double asphalt coating/ H/izolim me 2 duar bitum.
- Waterproofing with special waterproofing membrane/ H/izolim me membranë speciale h/izoluese.
- Concrete (C20/25) for the protection of waterproofing (min 7 cm) with advanced subdrainage.
- Concrete (C20/25) për mbrojtje h/izolimit (min 7 cm) me rrjetë gjatësive të përparshme të subdrainazhit.
- Construction joint/ Fugë betonimi.
- Reinforced concrete C30/37 - Beton i armuar C30/37.
- Change layer general (the crushed aggregate 0+10).
- Stripping drains (pavët) (stripes e imot e cakëti (0+10)).
- Filling material types.

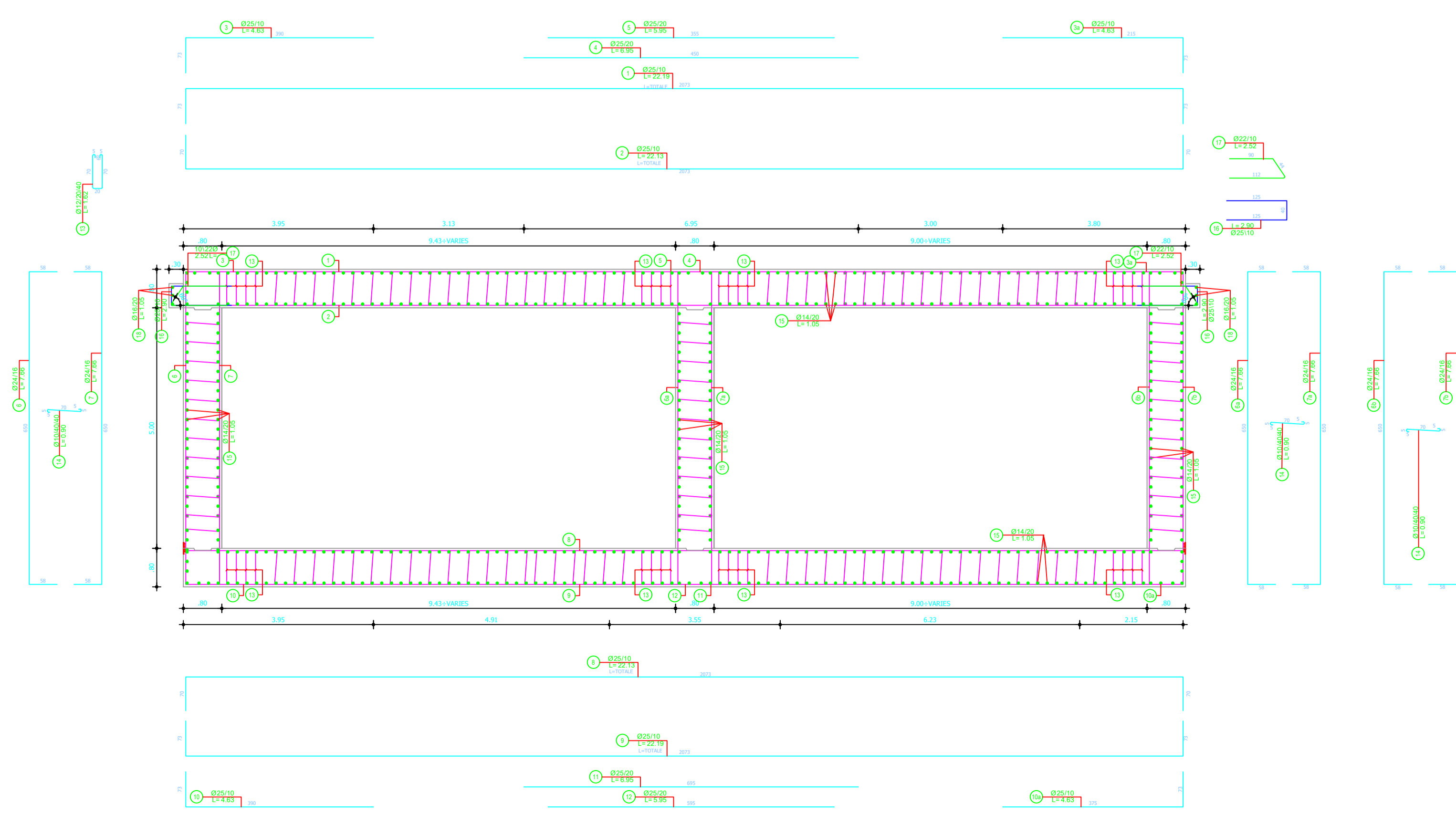
CROSS SECTION/PROFIL TËRTHOR

SCALE / SHKALLA 1:75



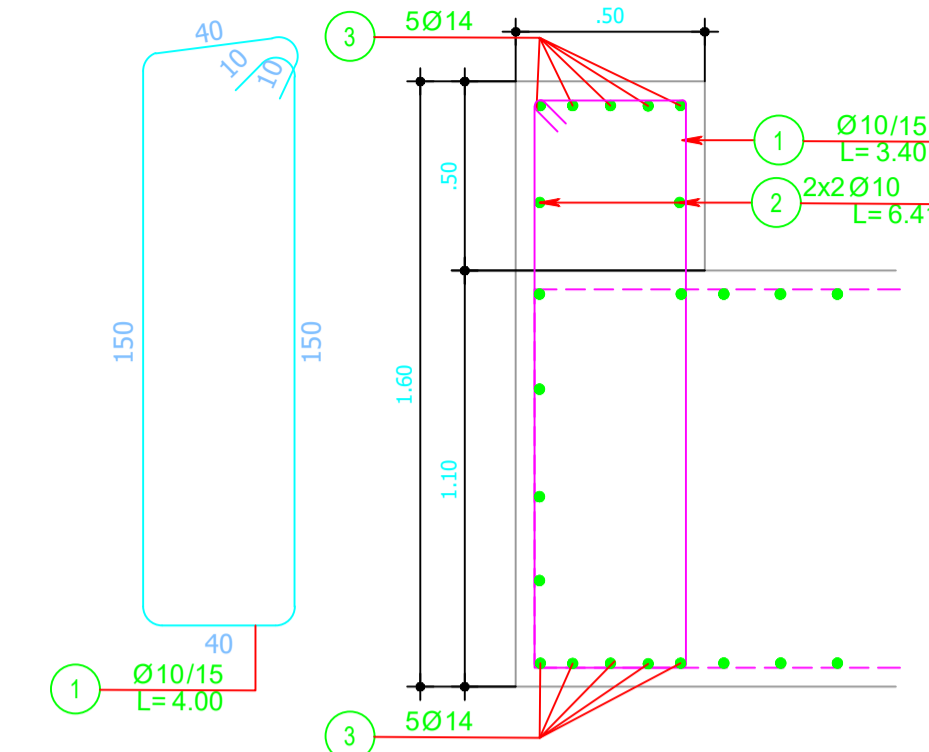
CROSS SECTION REINFORCEMENT 1-1 /PRERJE TERTHORE ARMIMI 1-1

SCALE 1:75/ SHKALLA 1:75



DETAIL APEX/ DETAJ PARAPETI

SCALE / SHKALLA 1:20



Reinforcement table/ Tabela e hekurave

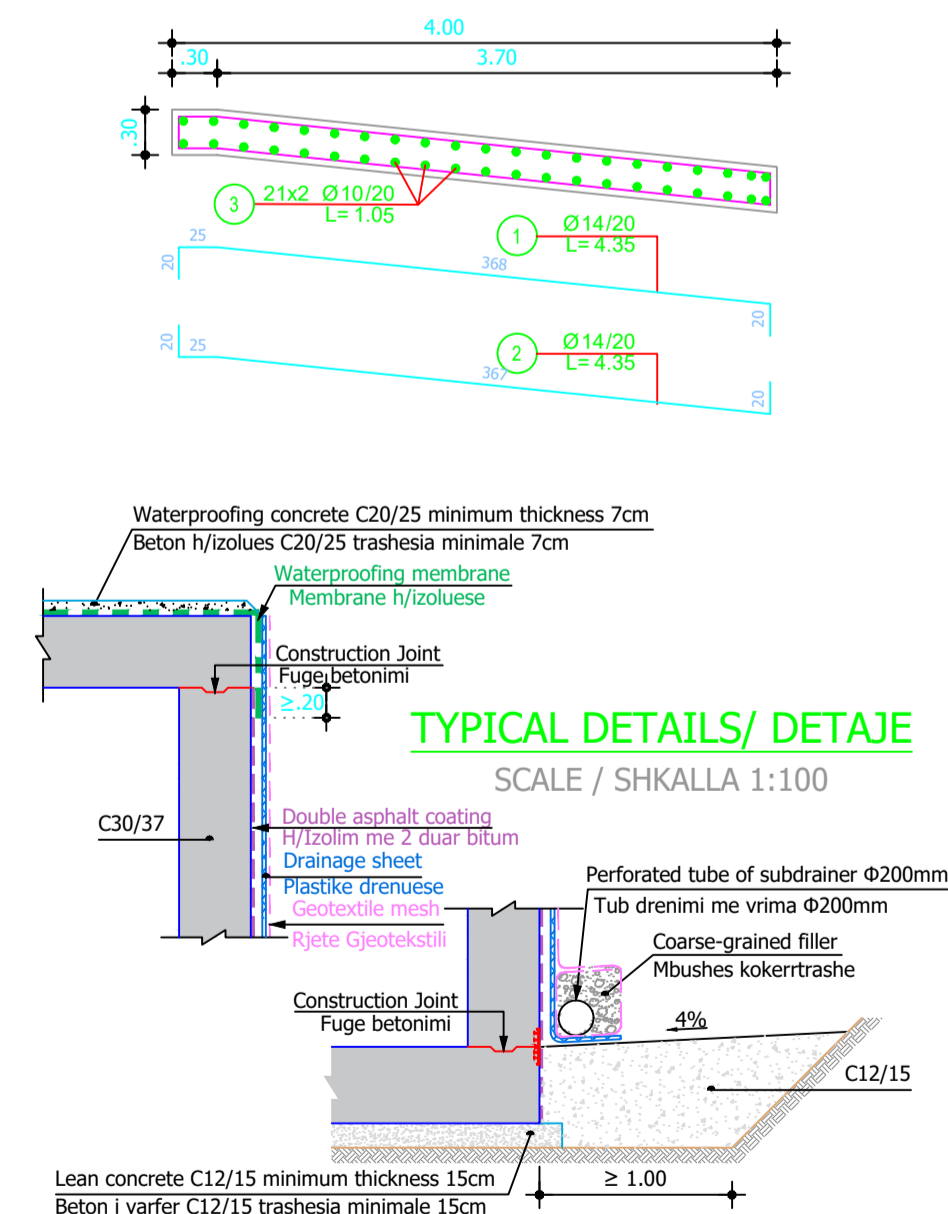
BOX CULVERT 2(5x5) m REINFORCEMENT TABLE
TOMBINO KUTI 2(5x5)m TABELA E HEKURAVE

No. Position Nr. Pozicioni	Diameter Diametri [mm]	Length Gjatesia [cm]	Quantity Sasia [pieces]	Total Length Gjatesia tot. [m]	Total Reinforcement / Armirim total			
					Diameter Diametri [mm]	Total Length Gjatesia tot. [m]	Steel Weight Peshë e shufrës [kg/m]	Total Weight Peshë tot. [ton]
1	25	2219	10	221.90	10	345.60	0.617	0.213
2	25	2213	10	221.30	12	129.60	0.888	0.115
3	25	463	10	46.30	14	596.40	1.208	0.721
3a	25	463	10	46.30	16	6.30	1.578	0.010
4	25	695	5	34.75	22	312.45	2.984	0.932
5	25	595	5	29.75	25	1229.60	3.853	4.738
6	24	766	6.25	47.88	24	287.25	3.551	1.020
7	24	766	6.25	47.88				
6a	24	766	6.25	47.88				
7a	24	766	6.25	47.88				
6b	24	766	6.25	47.88				
7b	24	766	6.25	47.88				
8	25	2213	10	221.30				
9	25	2219	10	221.90				
10	25	463	10	46.30				
10a	25	463	10	46.30				
11	25	695	5	34.75				
12	25	595	5	29.75				
13	12	162	80	129.60				
14	10	90	384	345.60				
15	14	105	568	596.40				
16	25	290	10	29.00				
17	22	252	10	25.20				
18	16	105	6	6.30				
					(1 meter Culvert) Σ =		7.749	
					(1meter tombino) Σ =		7.749	
					(xx meter Culvert) Σ =		7.749	
					(xx meter tombino) Σ =		7.749	

APPROACH SLAB REINFORCEMENT

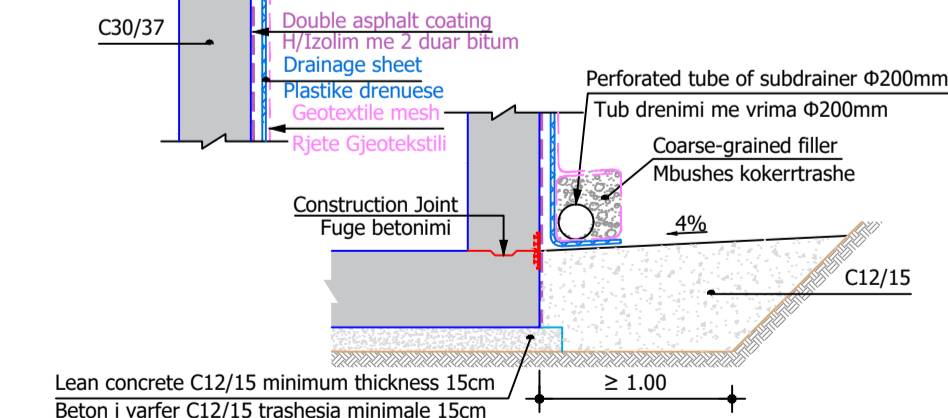
ARMIMI I SOLETËS RAKORDUESE

SCALE / SHKALLA 1:50



TYPICAL DETAILS/ DETAJE

SCALE / SHKALLA 1:100



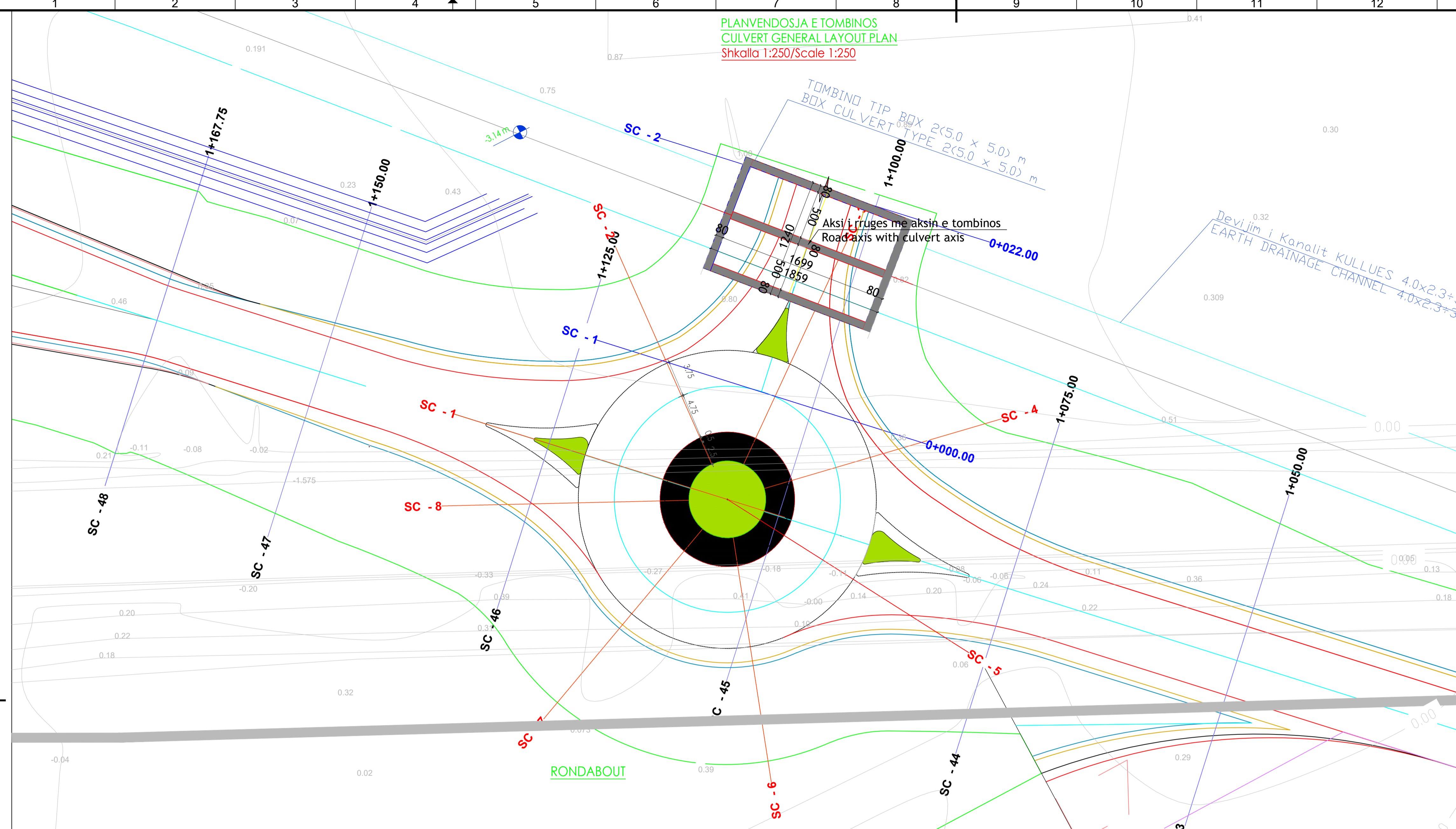
- CONCRETE/ BETON
 - Blinding concrete/ Beton i lehtësuar C12/15
 - Unreinforced mass concrete/ Beton i varfer C12/15
 - Reinforced concrete/ Beton i armuar C30/37
- STEEL REINFORCEMENT/ ARMATURA
 - High yield reinforcing bars/Shufrat punuese B500C
 - Reinforcing Mesh/ Zgarat B500A
- LOADS/ NGARKESA
 - Dead loads/ Ngarkesat e perhershme
 - Unit weight of reinforced concrete/ Peshë e betonit te armuar 25.00KN/m³
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 - Unit weight of backfilling material/ Peshë e materialit mbushës 22.00KN/m³
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 - Reference Peak Ground Acceleration/ Shpejtëmi maksimal i trulltit
- SOIL DATA/ TE DHENAT E TRUALLIT
 - As per Geotechnical Design/ Sipas llogaritjeve gjeoteknike
 - Ground Type/ Lloji i trulltit Type D/Tip D
- NOMINAL COVER TO ALL STEEL/ SHITRESA MBROJTJES E ÇELIKUT
 - Walls and foundation slabs in contact with soil/ Mure dhe themele ne kontakt me trullin 50 mm
 - Walls and foundation slabs in contact with water/ Mure dhe themele ne kontakt me ujin 50 mm
- DESIGN CODES APPLICABLE / KODET PROJEKTUESE TE APLIKUARA
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 - NTC 2008: Technical rules for building/ Norma teknike te projektimit

- FILLING MATERIAL TYPES (SEE SPECIFICATIONS)**
- Granular filling (Type 1) of 0+90mm; 0+75mm; 0+37.5mm aggregates, compacted at 93+98% (down + up). See ST. and Filling Report. LA ≥30% (fine crushed aggregate, limestone origin).
 - Granular filling (Type 1) of 0+150mm, aggregates, compacted at ≥90% (down + up). See ST. and Filling Report. LA ≥30% (fine crushed aggregate, limestone origin).
 - Granular filling type 3. Stabilizer 0+19mm or sand. See ST.
 - Vegetal soil layer, sand+clay mix (2:1) + grass. See ST.
- TIPET E MATERIALEVE MBUSHJES (TE SHIHEN SPECIFIKIMET)**
- Mbushje granulare (Tip 1) agregatesh 0+90mm; 0+75mm; 0+37.5mm, e kompaktuesuar 93+98% (poshte + lart). Shih ST. dhe Raportin e mbushjeve. LA ≥30% (çakelli minash + çakelli makinerie, nga shkëmb qelqeror).
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 - Mbushje granulare tip 3. Stabilizant 0+19mm ose rere. Shih ST.
 - Mbushje me shtrëse vegjetale, mix rere+argjile (2:1) + bar. Shih ST.

- NOTES/SHENIME:**
- *1) Tombino dhe mbushjet (Tip 1) do te realizohen pas periudhes se parakonsolidimit (6 muaj). Gjatë kesaj kohe ne pozicionin e tombinos vendoset nje tub i perkohshem b/arme Ø100. The culverts and fillings (Type 1) will be completed after the pre-consolidation period (6 months). During this time, a temporary pipe Ø100 should be placed in the position of the culvert.
 - The final position of the culvert will be verified at the site in conjunction with the drainage system of the land. Pozicioni i tombinos do te verifikohet ne kanlier ne varësi te sistemimit te drenazhit te tokave.
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 - The culvert will be realized after the 6-month pre-consolidation period ends. Tombino do te realizohet pasi te mbaroje periudha 6 mujore e parakonsolidimit.
 - Slope should be (1:1.5). Skarpata te merrt (1:1.5).

First Edition	DO	DO	ES	01-06-2023
Rev.	Description/Pershkrim	Drawn/Të vizualuar	Checked/Kontrolluar	Approved/ Miratuar
Client/Parosësi: DURRËS PORT AUTHORITY / Autoriteti Portual Durrës AUTORITETI PORTUAL DURRËS		Design Object/Objekt projektimi: Road Design Phase 1 Initial Projekti i Rrugës Faza 1 Fillëstare		
Project/Projekti: Integrated Port of Durrës in Porto Romano Porti i Integruar i Durrësit në Porto Romano		Discipline/Disiplina: Road Infrastructure / Infrastruktura e Rrugës		
Title/Titulli: tombino tip T3 2(5x5)m Curvret box type3- 2(5x5)		Revision/Rankim: 01		
Size/Fleta	Scale/Shkalla	Phase/Faza	Sheet/ Nr. Fletes	of / nga
A1	1:75	Detailed Design	12	17
		Drawing Number/Nrmi i vizatimit		
		BI1884-ABK-04-RW-DP-S-2012		

PLANVENDOSJA E TOMBINOS
CULVERT GENERAL LAYOUT PLAN
Shkalla 1:250/Scale 1:250



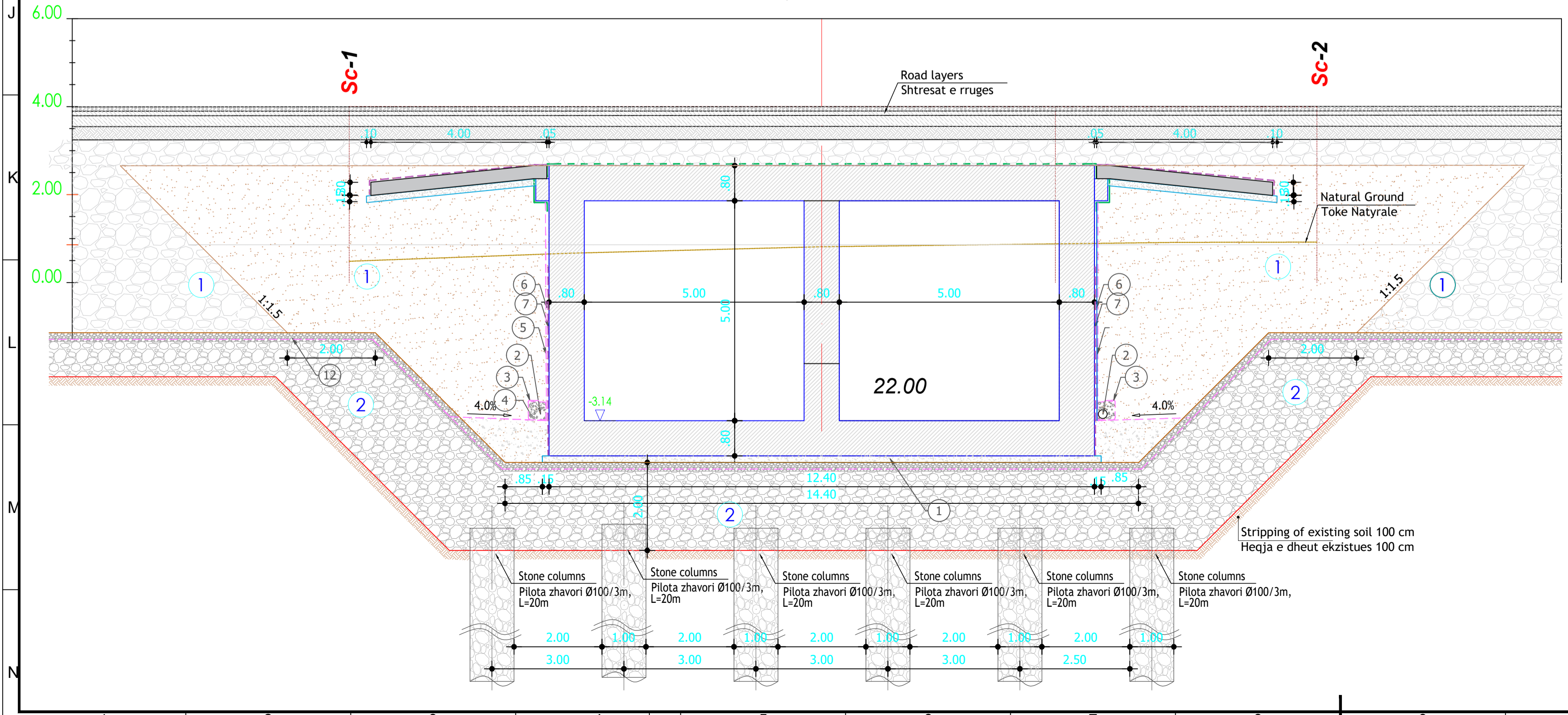
Legend:

- Lane of the road/Korsi e rruges
- Fill area/Zona e mbushjes
- Culvert / Tombino
- Earth drainage channel./Devijimi i kanalit kullues

DESIGN ASSUMPTIONS/ SHËNIME TEKNIKE

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 - NTC 2008: Technical rules for building/ Norma teknike të projektimit

CROSS SECTION/PROFIL TËRTHOR
SCALE / SHKALLA 1:75



- LEGJENDË/ LEGJENDË:**
- Unreinforced concrete (C12/15) for smoothing the ground
Beton i varfer (C12/15) për nivelim bazamenti
 - Perforated concrete drain pipes Ø200mm with discharge at the lowest end - acc. to separate design
Tuba drenimi b/a me vrima Ø200mm me shkarkim në pikën më të ulët - sipas projektit
 - Geotextile of drainage system/ Gjeotekstil për sistem drenazhi
 - Coarse-grained filler/ Mbushës kokërrtrasje
 - Geotextile mesh/ Rjete gjeotekstili
 - Drainage sheet/ Plastikë drenuese
 - Double asphalt coating/ H/Izolim me 2 duar bitum
 - Waterproofing with special waterproofing membrane
H/izolim me membranë speciale h/izoluese
 - Concrete (C20/25) for the protection of waterproofing (min 7 cm) with galvanized welded mesh
Beton (C20/25) për mbrojtje h/izolimi (min 7 cm) me rrjete çeliku të galvanizuar të salduar
 - Construction Joint/ Fuge betonimi
 - Reinforced concrete C30/37 / Beton i armuar C30/37
 - Drainage layer granular (fine crushed aggregate (0÷19))
Shtresë drenazhi (çakelli) (shtresë e imet e çakellit (0÷19)).
 - Filling material types

Rev.	Description/ Përshkrim	DO	DO	ES	01-06-2023
P01	First Edition				
		Drawn/Të vizatuar	Checked/Kontrolluar	Approved/ Miratuar	Date/ Data

Client/Porositësi: DURRËS PORT AUTHORITY / Autoriteti Portual Durrës

Project/Projekti: Integrated Port of Durrës in Porto Romano / Porti i Integruar i Durrësit në Porto Romano

Discipline/Disiplina: Road Infrastructure / Infrastruktura e Rrugës

Revision/Rishkrimi: 01

Drawing Number/Numri i vizatimit: BI1884-ABK-04-RW-DP-S-2013

CROSS SECTION/PROFIL TËRTHOR
SCALE / SHKALLA 1:75

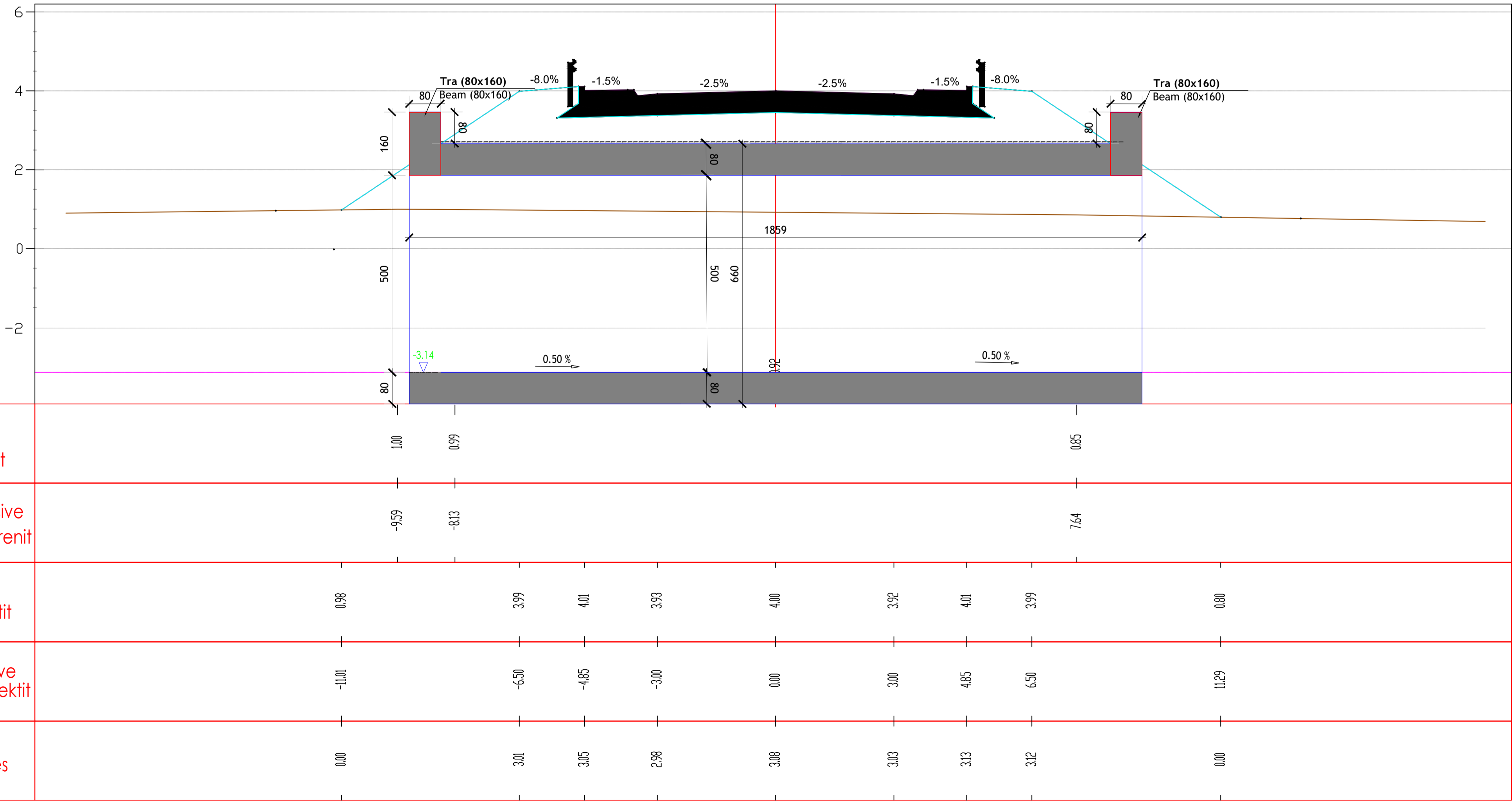
DESIGN ASSUMPTIONS/ SHËNIME TEKNIKE

Longitudinal Profile
arm road - Profili
Gjatesor dalja e rrethit
V.Scale 1:250

Sections Seksionet		Sc-1		Sc-2	
Partial distance Distanca pjesore					
Progres. distance Distanca progresive		0+000.00		0+022.00	
Ground level Kuota e tokes		0.484		0.920	
Project level Kuota e projektit		4.000		4.000	
Work level Kuota e punes		3.516		3.080	

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LONGITUDINAL SECTION/PROFIL GJATESOR
SCALE / SHKALLA 1:75 PROG - 0+016.08



- FILLING MATERIAL TYPES (SEE SPECIFICATIONS)**
- Granular filling (Type 1) of 0+90mm; 0+75mm; 0+37.5mm aggregates, compacted at 93+98% (down ÷ up). See ST. and Filling Report.
LA ≥30% (fine crushed aggregate, limestone origin).
 - Granular filling (Type 1) of 0+150mm, aggregates, compacted at ≥ 90% (down ÷ up). See ST. and Filling Report.
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- NOTES/SHENIME:**
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Pozicioni i tombinos do te verifikohet ne kantier ne varesi te sistemimit te drenazhit te tokave.
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P01	First Edition	DQ	DQ	ES	01-06-2023
Rev.	Description/ Përshkrim	Drawn/Të vizatuar	Checked/Kontrolluar	Approved/Miratuar	Date/Date

abkons
LOCAL KNOWLEDGE. GLOBAL STANDARDS

ADEC
EXPERIENCE. CONSCIOUSNESS

TALANT s.h.p.k.
Design & Supervision

GEO ENG
Geotechnical Engineering

Royal HaskoningDHV
Enhancing Society Together

Client/Pronostit:
DURRËS PORT AUTHORITY Autoriteti Portual Durrës
AUTORITETI PORTUAL DURRËS

Design Object/Objekti projektimi:
Road Design Phase 1 Initial
Projekti i Rugës Faza 1 Fillestare

Project/Projekti:
Integrated Port of Durrës in Porto Romano
Porti i Integruar i Durrësit në Porto Romano

Title/Titulli:
Tombino tip box T3-2(5x5)m
Curvert box type T3 - 2(5x5)m

Scale/Scale:
A1
1:75

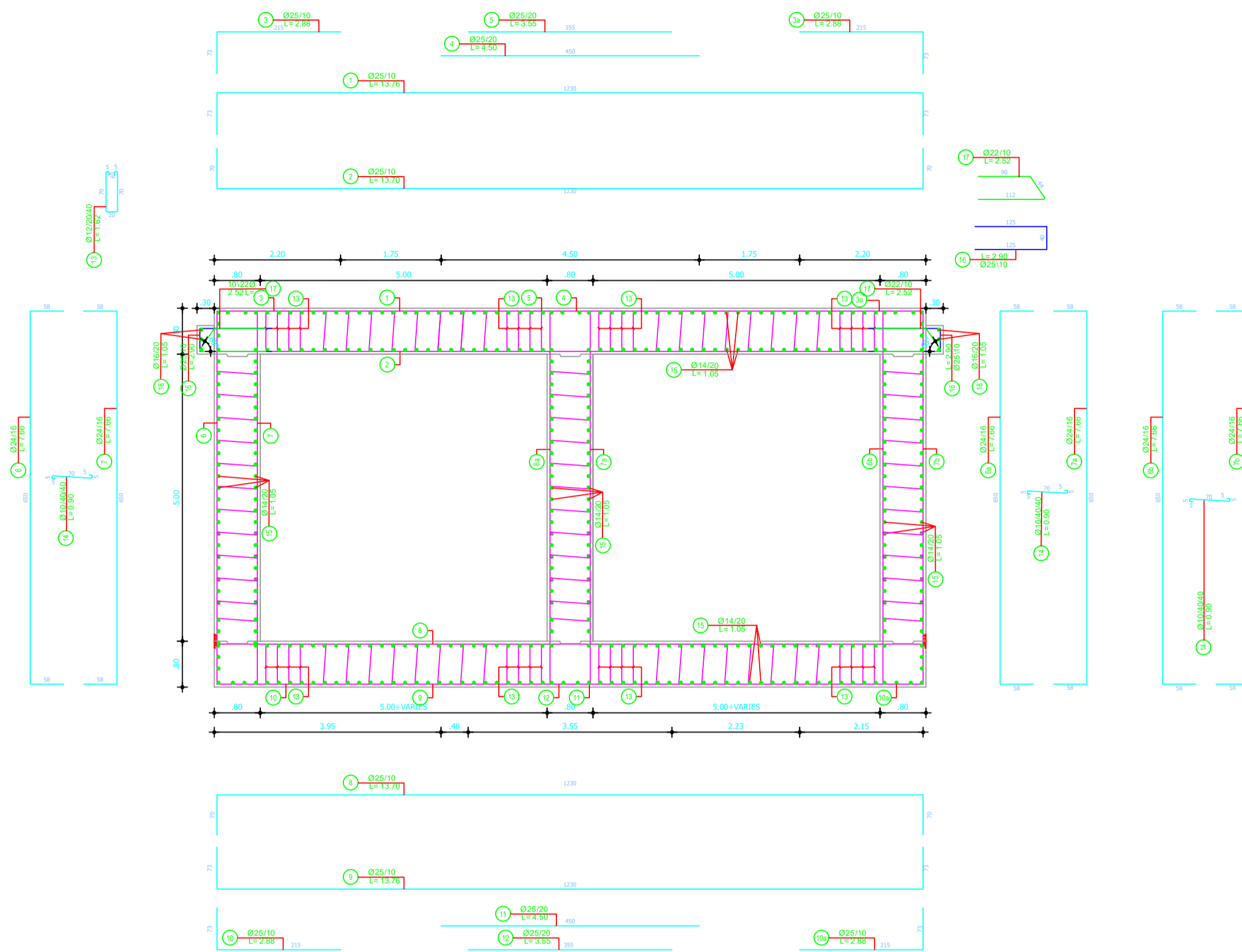
Phase/Faza:
Detailed Design

Sheet/Shefite:
14 of 17

Revision/Revizim:
01

Drawing Number/Numri i vizatimit:
BI1884-ABK-04-RW-DP-S-2014

CROSS SECTION REINFORCEMENT/PRERJE TERTHORE ARMIMI
SCALE 1:75/ SHKALLA 1:75



Reinforcement table/ Tabela e hekurave

BOX CULVERT 2(5x5)m REINFORCEMENT TABLE TOMBINO KUTI 2(5x5)m TABELA E HEKURAVE							
No. Position Nr. Pozicioni	Diameter Diametri [mm]	Length Gjatesia [cm]	Quantity Sasia [pieces]	Total Length Gjatesia tot. [m]	Total Reinforcement / Armimi total		
					Diameter Diametri [mm]	Length Gjatesia tot. [m]	Weight Pesha e shufres tot. [kg/m]
1	25	1376	10	137.60	10	159.75	0.617
2	25	1370	10	137.00	12	129.60	0.888
3	25	288	10	28.80	14	380.10	1.208
3a	25	288	10	28.80	16	6.30	1.578
4	25	450	5	22.50	22	312.45	2.984
5	25	355	5	17.75	25	773.90	3.853
6	24	766	6.25	47.88	24	287.25	3.551
7	24	766	6.25	47.88			
6a	24	766	6.25	47.88			
7a	24	766	6.25	47.88			
6b	24	766	6.25	47.88			
7b	24	766	6.25	47.88			
8	25	1370	10	137.00			
9	25	1376	10	137.60			
10	25	288	10	28.80			
10a	25	288	10	28.80			
11	25	450	5	22.50			
12	25	355	5	17.75			
13	12	162	80	129.60			
14	10	90	177.5	159.75			
15	14	105	362	380.10			
16	25	290	10	29.00			
17	22	252	10	25.20			
18	16	105	6	6.30			
					(1 meter Culvert) Σ =		5.617
					(1 meter tombino) Σ =		5.617
					(xx meter Culvert) Σ =		5.617
					(xx meter tombino) Σ =		5.617

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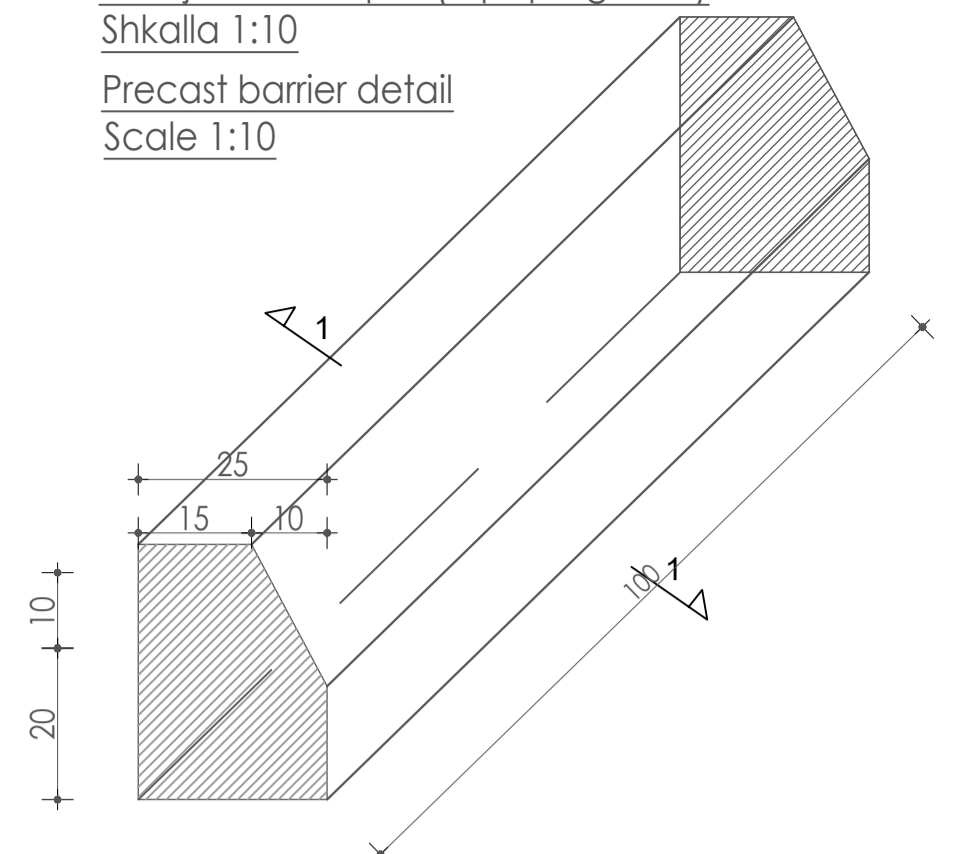
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NOTES/SHENIME:

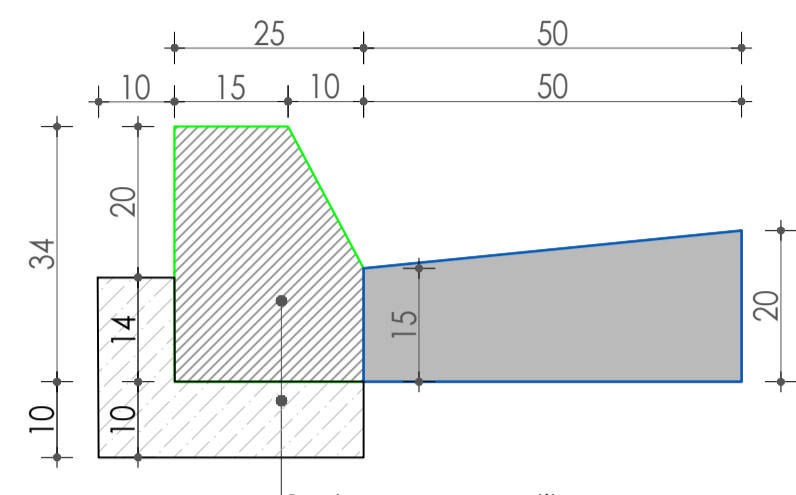
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 - The final position of the culvert will be verified at the site in conjunction with the drainage system of the land. Pozicioni i tombinos do te verifikohet ne kanterin ne varesi te sistemimit te drenazhit te tokave.
 - The last quota of the culvert will be adjusted on site in function of the last quota of the existing channel for the drainage of the area's lands. Kuota e fundit te tombinos do te saktësohet ne vend ne funksion te kuotes se fundit te kanalit ekzistues te sistemimit te drenazhit/kullimit te tokave te zones.
 - The culvert will be realized after the 6-month pre-consolidation period ends. Tombino do te realizohet pasi te mbarojë periudha 6 mujore e parakonsolidimit.
 - Slope should be (1:1.5). Skarpata te merrt (1:1.5).

P01	First Edition	DQ	DQ	ES	01-06-2023
Rev.	Description/Përshkrim	Drawn/Të vizatuar	Checked/Kontrolluar	Approved/Miratuar	Date/ Data
Client/Porositësi DURRËS PORT AUTHORITY		Authority/ Autoriteti Portual Durrës AUTORITETI PORTUAL DURRËS		Design Object/Objekti projektimi Road Design Phase 1 Initial Projekti i Rugës Faza 1 Fillëstare	
Project/Projekti Integrated Port of Durrës in Porto Romano		Discipline/Disiplina Road Infrastructure / Infrastruktura e Rugës			
Title/Titulli Tombino tip box T3-2(5x5)m Curvert box type T3 - 2(5x5)m					
Size/Peta A1		Scale/Shkalla 1:75		Phase/Faza Detailed Design	
		Sheet no./ Nr. i fletës 15		of pages/ nga 17	
		Drawing Number/Nomri i vizatimit B11884-ABK-04-RW-DP-S-2015		Revision/Rishkrim 01	

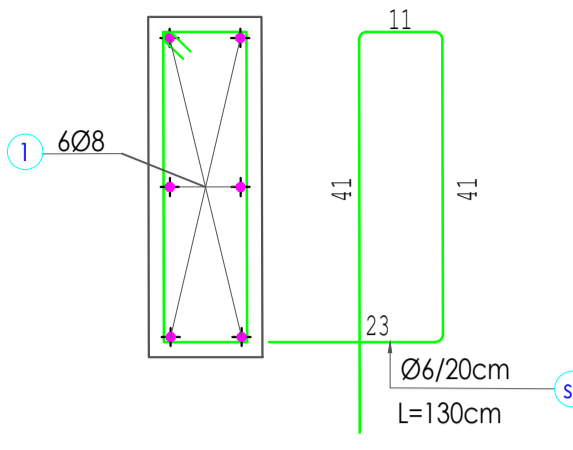
Detaj bordure tipi 1 (e parapregatitur)
Shkalla 1:10
Precast barrier detail
Scale 1:10



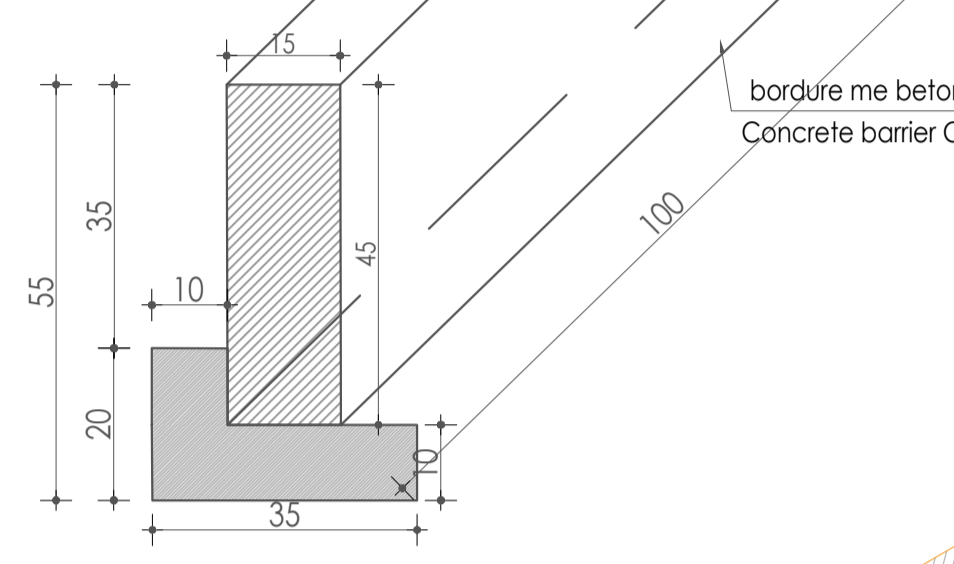
Prejra 1-1 Section 1-1
Shkalla 1:10 Scale 1:10



Prejra 1-1 Section 1-1
Shkalla 1:10 Scale 1:10

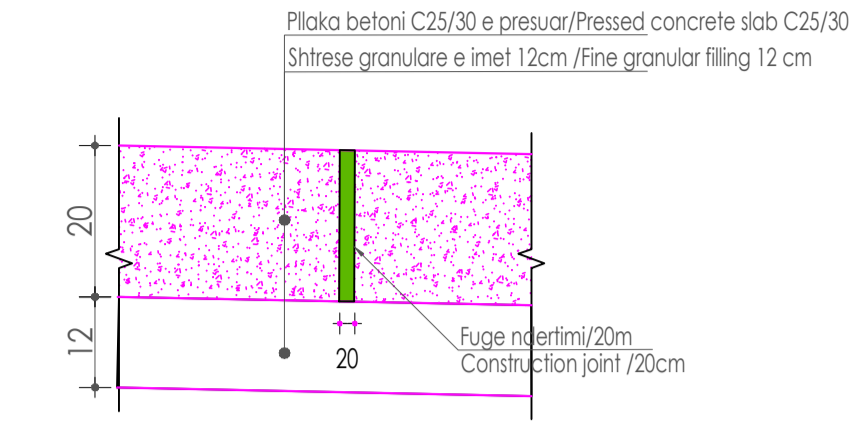


Detaj bordure tipi 2 (Derdhur ne vend)
Shkalla 1:10
Precast barrier detail type 2
Scale 1:10

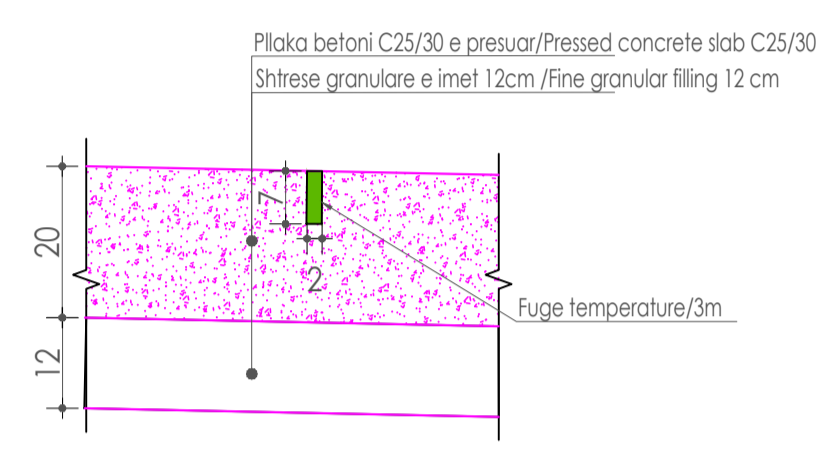


Bordure e parapregatitur
Precast barrier
beton i varfer C12/15
lean concrete C12/15

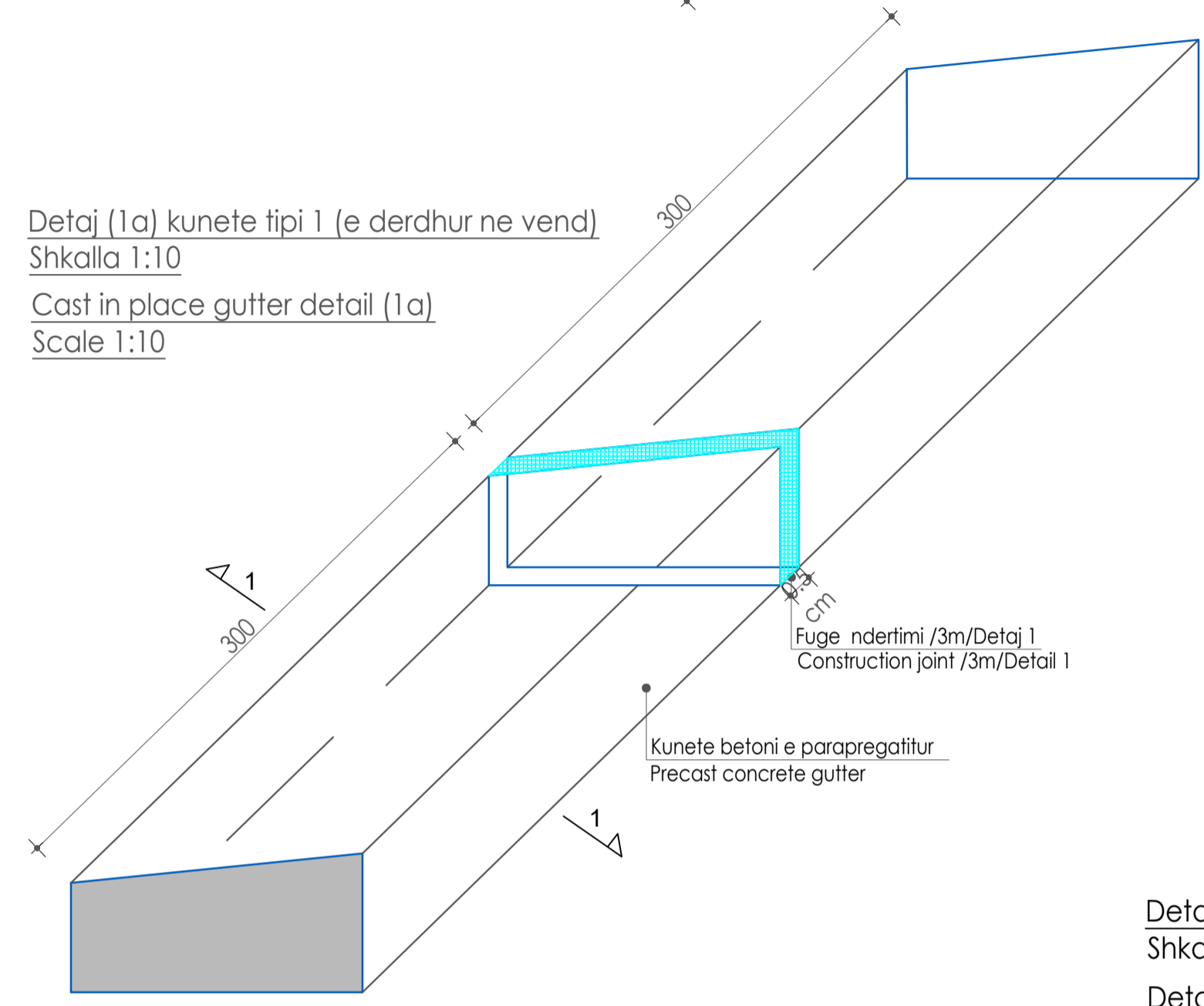
Detail 1 (Construction joint)
Scale 1:10
Detaji 1 (Fuge ndertimi)
Shkalla 1:10



Detail 2 (Temperature Joint)
Scale 1:10
Detaji 2 (Fuge temperature)
Shkalla 1:10



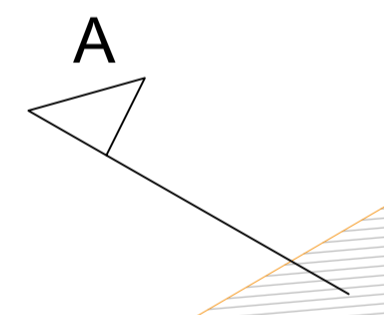
Detaj (1a) kunete tipi 1 (e derdhur ne vend)
Shkalla 1:10
Cast in place gutter detail (1a)
Scale 1:10



Fuge ndertimi /3m/Detaj 1
Construction joint /3m/Detaj 1

Kunete betoni e parapregatitur
Precast concrete gutter

Detaj i trotuarit per kalimin e kembesore
Shkalla 1:10
Detail of the sidewalk
Scale 1:10

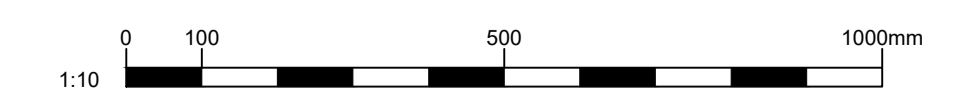


Slope 1.5 %
Pjerrësia 3%

Pjerrësia 1.5 %
Slope 1.5 %

Pjerrësia 1.5 %
Slope 1.5 %

Vijezieme/Markings

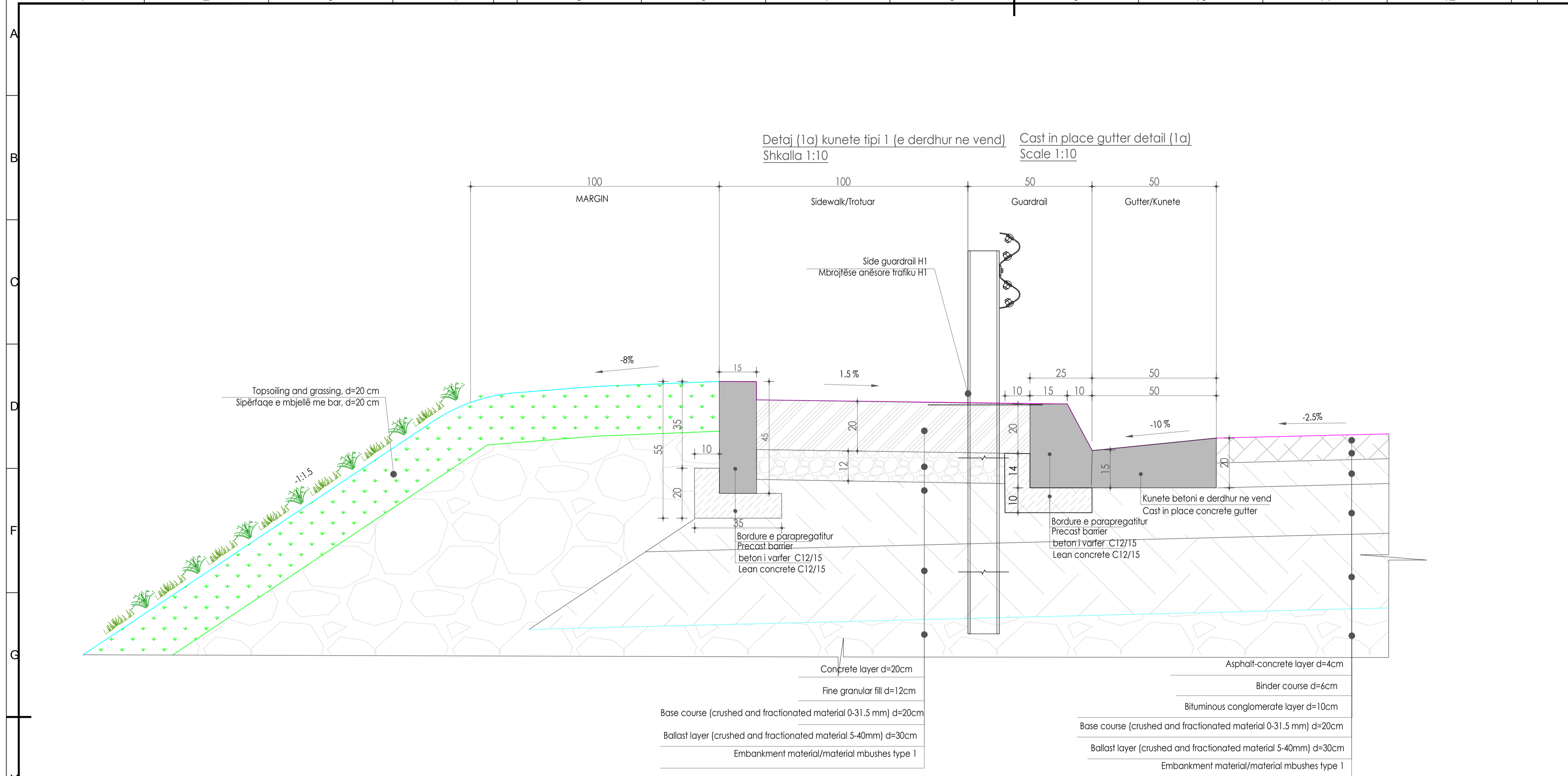


Shenim:
-Beton i klases C20/25.
-Hekuri B-500.
-Receta e betonit te kontrollohet nga inxhinier te specializuar. Duhet te kete additive shtrese per kontrollin e plasaritjeve dhe agjenteve klimaterike, ngrica, ΔT etj.
- Fuge temperature /3m te mbushura me material hidroizolues elastik.
- Bordura Tip 2, derdhur ne vend.

Note:
-C20/25 class concrete.
- Steel B-500.
- The concrete recipe must be checked by a specialized engineer.
There must be layer additives to control cracks and climatic agents, frost, ΔT, etc.
- Temperature joints /3m filled with elastic waterproofing material.
- Curb Type 2, cast in place.

Rev.	Description/Përkthim	DQ	DQ	ES	01-06-2023
P01	First Edition	DQ	DQ	ES	01-06-2023
Rev.	Description/Përkthim	Drawn/Të vizatuar	Checked/Kontrolluar	Approved/Miratur	Date/Date

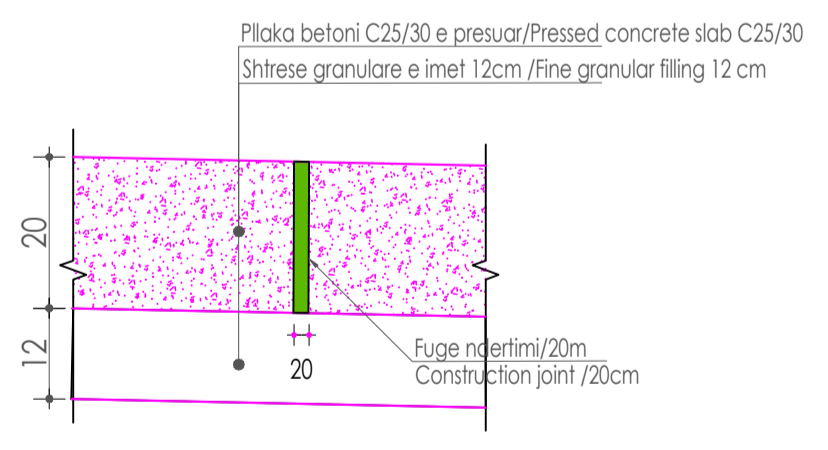
Client/Pronësi DURRËS PORT AUTHORITY Autoriteti Portual Durrës AUTORITETI PORTUAL DURRËS	Design Object/Objekt projektimi Road Design Phase 1 Initial Projekti i Rrugës Faza 1 Fillëstare				
Project/Projekti Integrated Port of Durrës in Porto Romano Porti i Integruar i Durrësit në Porto Romano	Discipline/Disiplinë Road Infrastructure / Infrastruktura e Rrugës				
Title/Titull R/C element details Detaje të elementeve B/A	Revision/Rishkrim 01				
Sheet/Lista A1	Scale/Shkalla 1:10	Phase/Faza Detailed Design	Sheetno./Nr. i listës 16	of nga 16	Drawing Number/Numri i vizatimit BI1884-ABK-04-RW-DP-S-2016



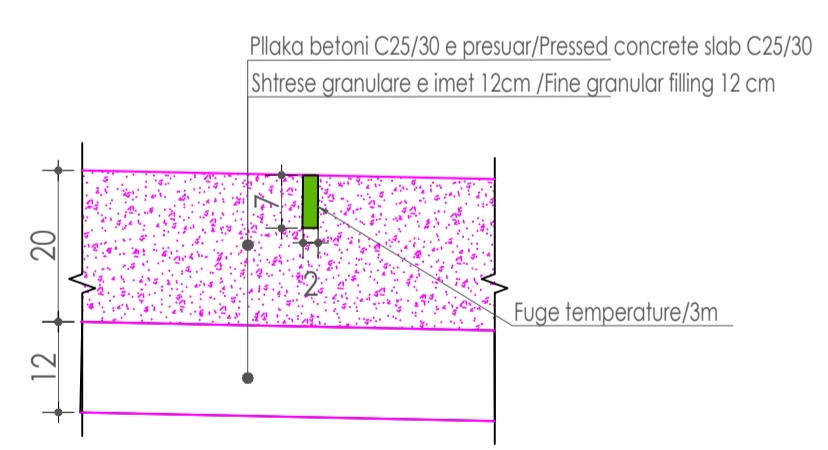
Shenim:
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Note:
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 - Temperature joints /3m filled with elastic waterproofing material.
 - Curb Type 2, cast in place.

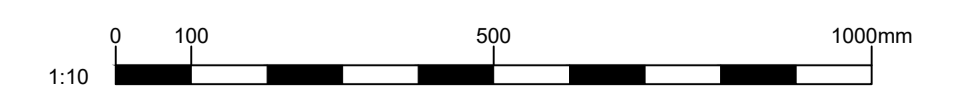
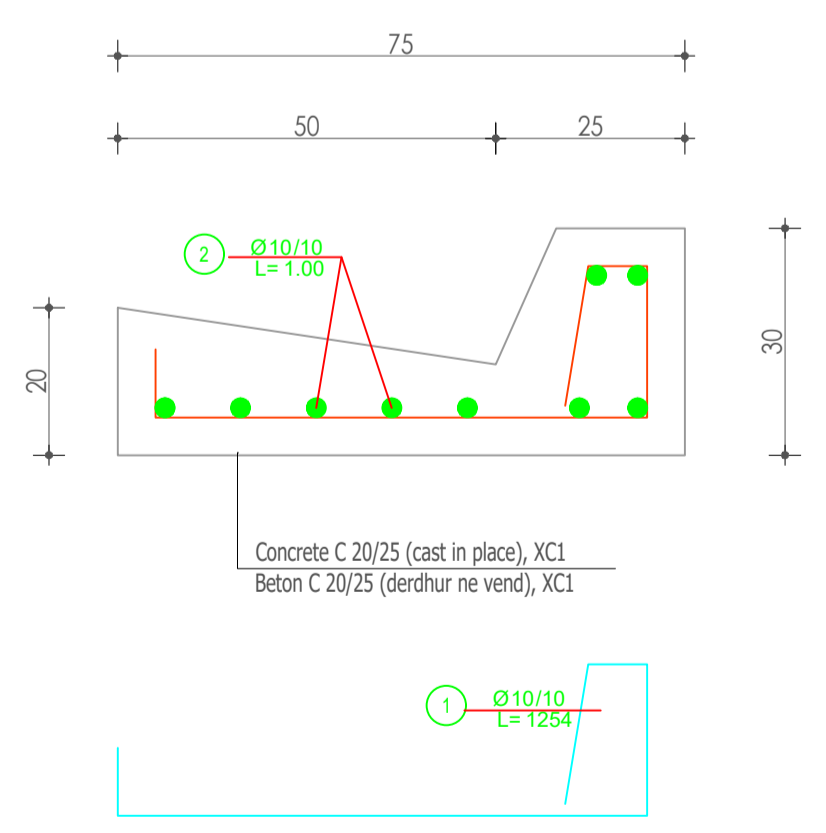
Detail 1 (Construction joint)
 Scale 1:10
Detaji 1 (Fuge ndertimi)
 Shkalla 1:10



Detail 2 (Temperature Joint)
 Scale 1:10
Detaji 2 (Fuge temperature)
 Shkalla 1:10



REINFORCEMENT OF CONCRETE GUTTER -2a
ARMIMI PER KUNETEN E BETONIT -2a
 SC. 1:10 / SH. 1:10



P01	First Edition	DQ	DQ	ES	01-06-2023
Rev.	Description/Përshkrim	Drawn/Të vizatuar	Checked/Kontrolluar	Approved/Miratuar	Date/Date
abkons LOCAL KNOWLEDGE, GLOBAL STANDARDS ADEC DESIGN & SUPERVISOR TALANT s.h.p.k Design & Supervision GEO ENG GEOTECHNICAL ENGINEERING Royal HaskoningDHV Enhancing Society Together		Client/Porositësi: DURRËS PORT AUTHORITY / Autoriteti Portual Durrës Project/Projekti: Integrated Port of Durrës in Porto Romano / Porti i Integruar i Durrësit në Porto Romano Title/Titulli: Typical Cross sections (Sc.4+ Sc.6) / Seksionet terthore tip (Sek.4 + Sek.6)			
Design Object/Objekti projektimi: Road Design Phase 1 Initial / Projektimi i Faze 1 Inicial Discipline/Disiplina: Road Infrastructure / Infrastruktura e Rrugës		Revision/Revizimi: 01 Drawing Number/Numri i vizatimit: BI1884-ABK-04-RW-DP-S-2017			
Size/Pata	Scale/Shkalla	Phase/Faza	Sheetno./Nr. i fletës	of pages	
A1	1:10	Detailed Design	16	17	