



No	SHAPE OF BAR	DIAMETER & SPACING	NUMBER OF BARS	CUTTING LENGTH (m)	TOTAL LENGTH (m)	UNIT WEIGHT (kg/m)	TOTAL WEIGHT (kg)	
22		Ø10/15	13	1.90	24.70	0.62	15.24	
23		Ø10	4	1.90	7.60	0.62	4.69	
24		Ø16	4	3.00	12.00	1.58	18.94	
25		Ø16	4	3.00	12.00	1.58	18.94	
		TOTAL (kg/headwall)						57.80

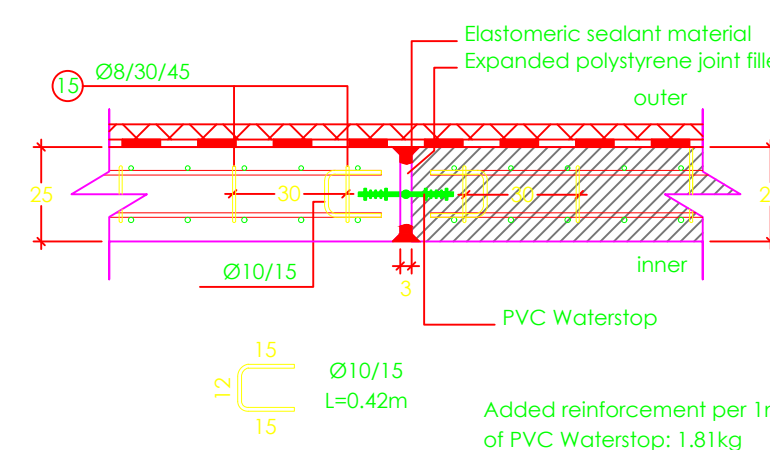
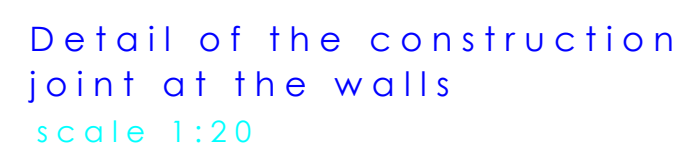
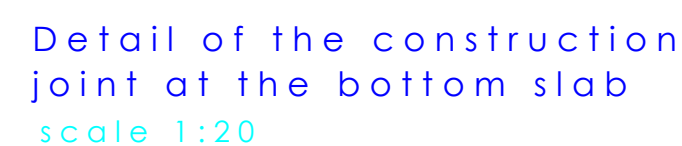
REINFORCED CONCRETE (m ³)	0.32
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[illegible]

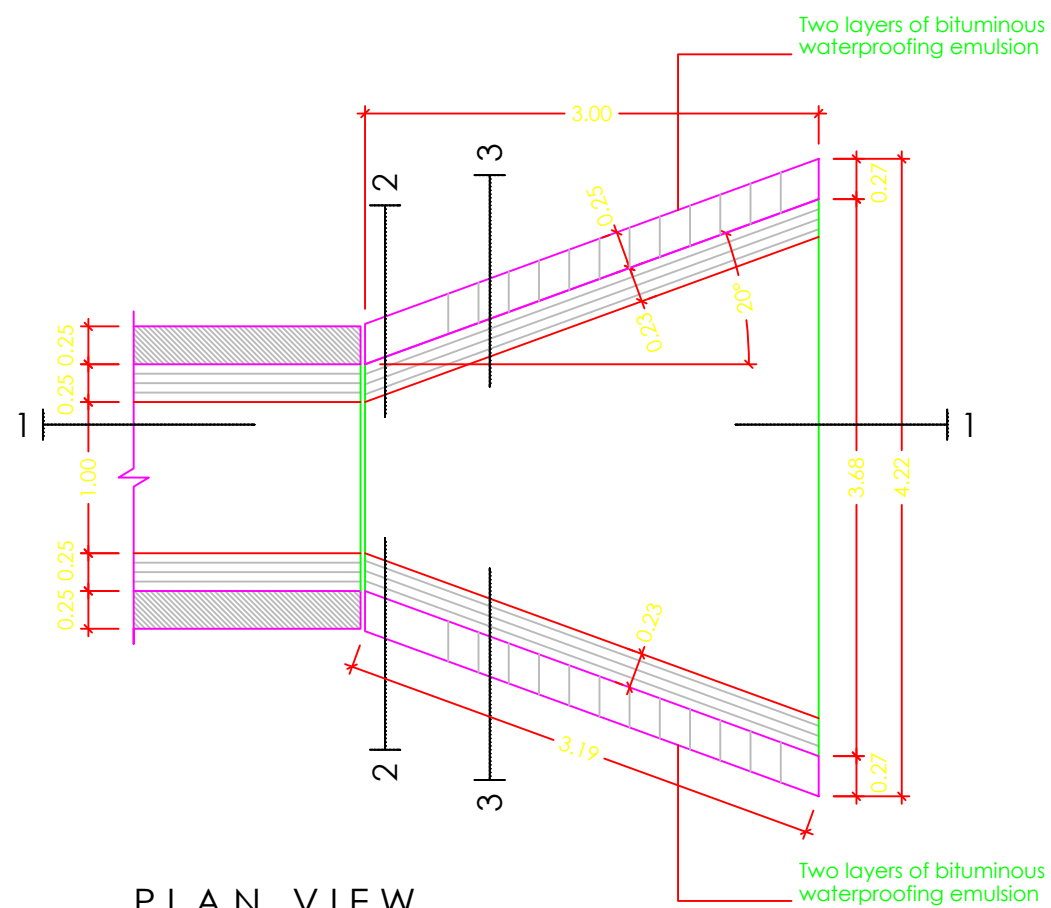
LEAN CONCRETE (m³)	0.50
REINFORCED CONCRETE (m³)	1.88

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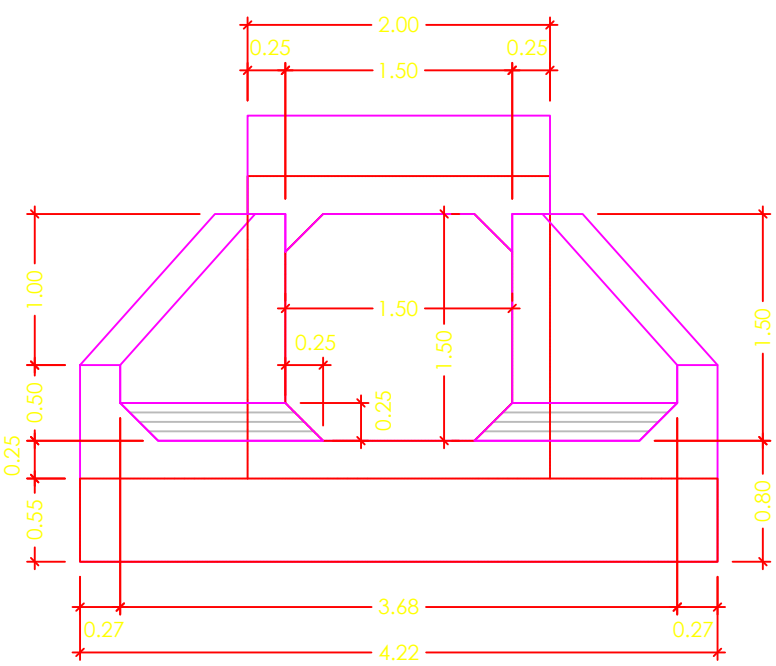
REINFORCED CONCRETE (m ³)	0.44
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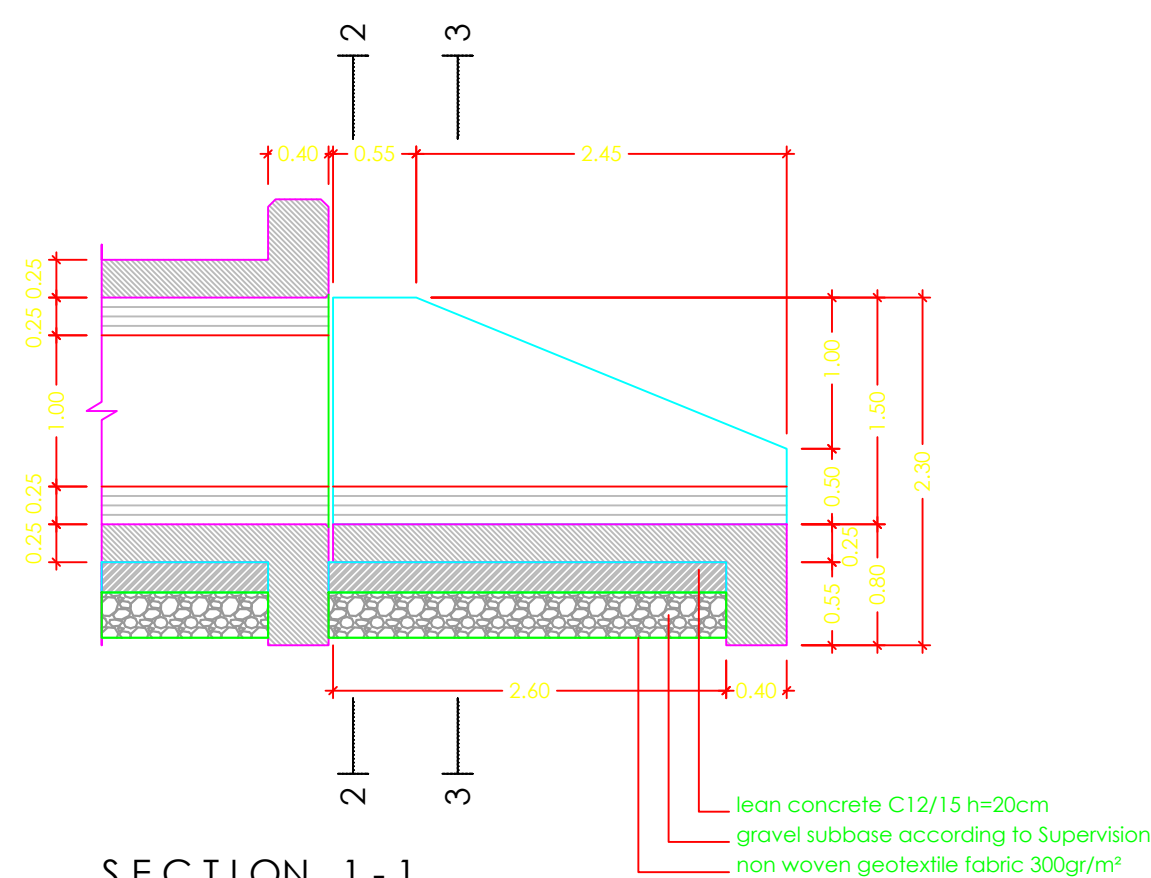
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PLAN VIEW
scale 1:50

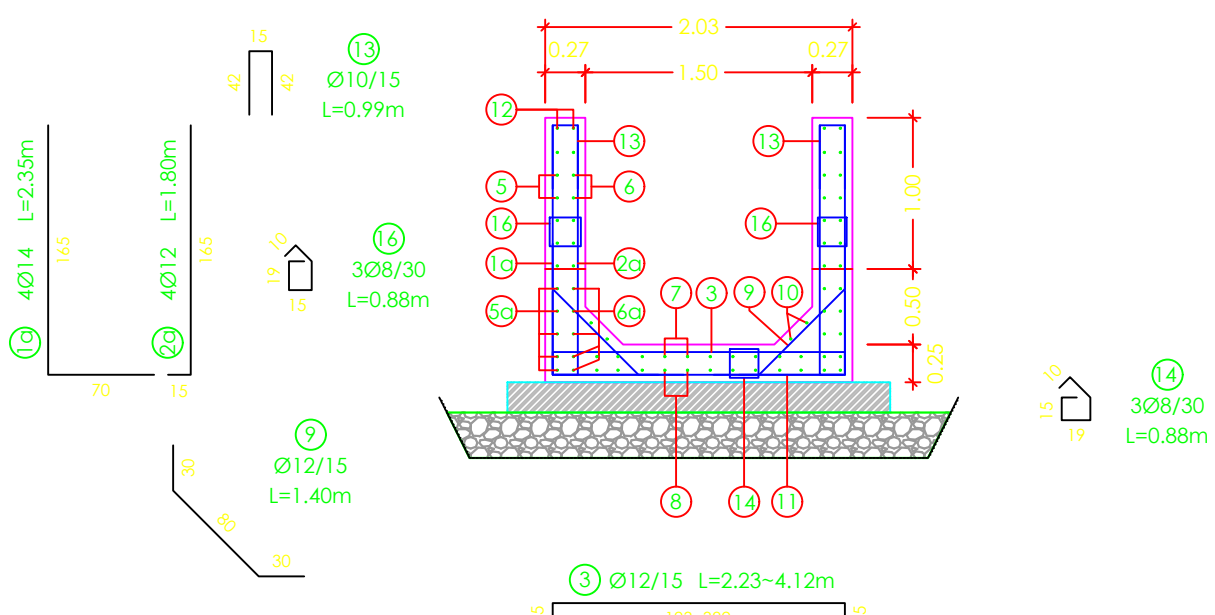
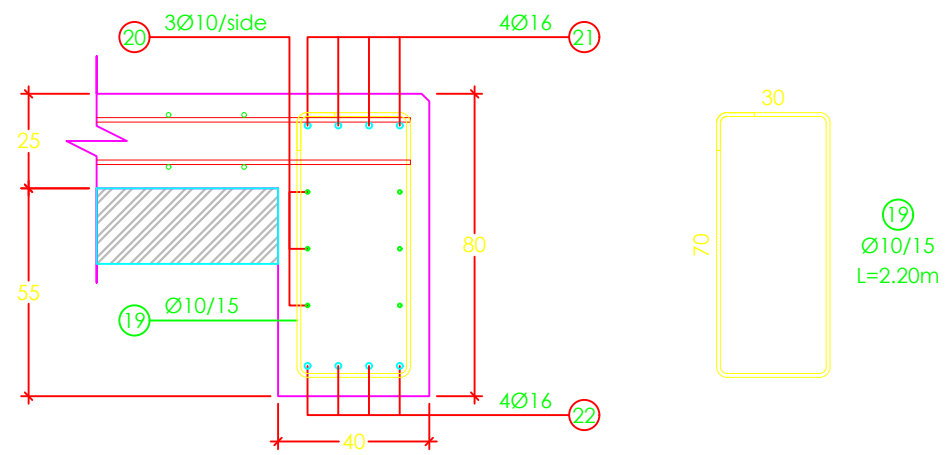


FRONT VIEW
scale 1:50

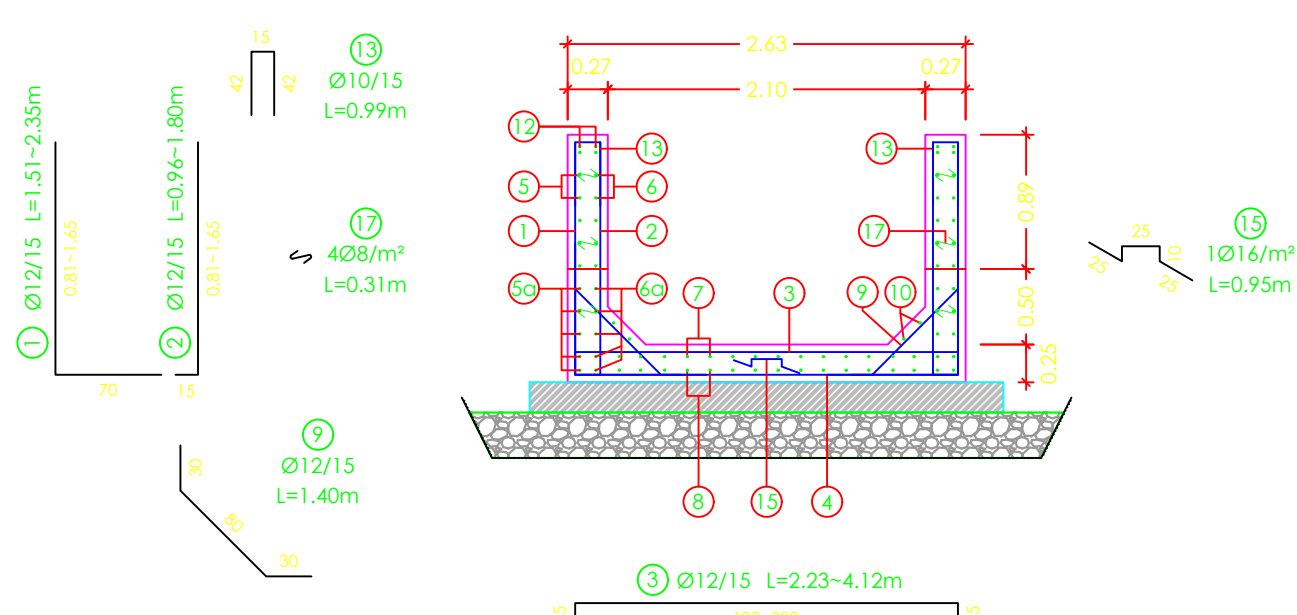


SECTION 1-1
FORMWORK
scale 1:50

Detail of apron
scale 1:20



SECTION 2-2
REINFORCEMENT
scale 1:50



SECTION 3-3
REINFORCEMENT
scale 1:50

INLET STRUCTURE - QUANTITIES

No	SHAPE OF BAR	DIAMETER & SPACING	NUMBER OF BARS	CUTTING LENGTH (m)	TOTAL LENGTH (m)	UNIT WEIGHT (kg/m)	TOTAL WEIGHT (kg)
1	0.81-1.65 0.70	Ø12/15	28	1.93	54.04	0.89	47.99
1a	1.65 0.70	Ø14	8	2.35	18.80	1.21	22.71
1b	1.20-1.36	Ø12	6	1.28	7.68	0.89	6.82
2	0.81-1.65 0.15	Ø12/15	28	1.38	38.64	0.89	34.31
2a	1.65 0.15	Ø12	8	1.80	14.40	0.89	12.79
2b	1.20-1.36	Ø12	6	1.28	7.68	0.89	6.82
3	0.15 1.93-3.82 0.15	Ø12/15	17	3.18	53.98	0.89	47.93
4	0.55 2.35-3.82 0.55	Ø12/15	13	4.18	54.28	0.89	48.20
5	0.48-3.09	Ø12/15	12	1.92	22.98	0.89	20.41
5a	3.09	Ø12	10	3.22	32.20	0.89	28.59
6	0.48-3.09	Ø12/15	12	1.92	22.98	0.89	20.41
6a	3.09	Ø12	10	3.22	32.20	0.89	28.59
7	0.13 2.90 0.13	Ø12/15	14	3.16	44.24	0.89	39.29
7a	0.13 0.94-2.90 0.13	Ø12/15	8	2.18	17.44	0.89	15.49
8	0.13 2.90 0.13	Ø12/15	14	3.16	44.24	0.89	39.29
8a	0.13 0.94-2.90 0.13	Ø12/15	8	2.18	17.44	0.89	15.49
9	0.80 0.80 0.80	Ø12/15	42	1.40	58.80	0.89	52.21
10	0.13 3.09 0.13	Ø12	4	3.35	13.40	0.89	11.90
11	0.55 1.93-2.33 0.55	Ø14	4	3.23	12.92	1.21	15.61
12	0.30 2.73 0.30	Ø12	4	3.83	15.32	0.89	13.60
13	0.15 0.42 0.42 0.15	Ø10/15	42	0.99	41.58	0.62	25.65
14	0.15 0.19 0.19 0.15	3Ø8/30	15	0.88	13.20	0.40	5.21
15	0.15 0.19 0.19 0.15	1Ø16/m²	6	0.95	5.70	1.58	8.99
16	0.15 0.19 0.19 0.15	3Ø8/30	24	0.88	21.12	0.40	8.34
17	0.15 0.19 0.19 0.15	4Ø8/m²	22	0.31	6.82	0.40	2.69
18	0.13 0.41 0.41 0.13	Ø10/15	8	0.99	7.92	0.62	4.89
19	0.70 0.70 0.70	Ø10/15	28	2.20	61.60	0.62	38.01
20	3.82-4.12	Ø10	6	3.97	23.82	0.62	14.70
21	0.55 3.82-4.12 0.55	Ø16	4	5.07	20.28	1.58	32.00
22	0.55 3.82-4.12 0.55	Ø16	4	5.07	20.28	1.58	32.00
TOTAL (kg)							700.93

LEAN CONCRETE (m³)	2.44
REINFORCED CONCRETE (m³)	5.18

STRUCTURAL NOTES

MATERIALS

REINFORCED CONCRETE	C30/37
LEAN CONCRETE	C12/15
STEEL REINFORCEMENT	B500C

LOADS

REINFORCED CONCRETE SELF WEIGHT	25.00 KN/m³
SOIL UNIT WEIGHT	19.00 KN/m³
WATER UNIT WEIGHT	10.00 KN/m³
TRAFFIC LOADS: EC1991-2 / LOAD MODEL 1	
TANDEM SYSTEM (TS): WEIGHT per AXLE	300 KN
UDL SYSTEM: DISTRIBUTED LOAD	9.00 KN/m²
THERMAL ACTIONS: EC1991-5	
TEMPERATURE DIFFERENCE	+5°/-35°
CONCRETE SHRINKAGE TAKEN INTO ACCOUNT	

SEISMIC PARAMETERS

TYPE OF RESPONSE SPECTRUM	1
DESIGN GROUND ACCELERATION	a _g = 0.26 g
IMPORTANCE FACTOR	γ _f = 1.00
SOIL CATEGORY	D
SOIL FACTOR	s = 1.35
BEHAVIOUR FACTOR	q = 1.00

DURABILITY

EXPOSURE CLASS	XD2
CONCRETE COVER	50 mm

SOIL PARAMETERS

MODULUS OF SUBGRADE REACTION	30.000 KN/m³
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STRUCTURAL DESIGN CODES

EN1990	Basis of structural design
EN1991-1	Actions on structures - Part 1: General actions
EN1991-2	Actions on structures - Part 2: Traffic loads on bridges
EN1992-1	Design of concrete structures - Part 1: General rules and rules for buildings
EN1992-2	Design of concrete structures - Part 2: Concrete bridges
EN1993-1	Design and detailing rules
EN1997-1	Geotechnical design - Part 1: General rules
EN1998-1	Design of structures for earthquake resistance - Part 1: General rules, seismic actions and rules for buildings
EN1998-2	Design of structures for earthquake resistance - Part 1: Bridges
EN1998-5	Design of structures for earthquake resistance - Part 5: Foundations, retaining structures and geotechnical aspects

INLET STRUCTURE 1.50x1.50

Si01a

scale 1:50

CLIENT/დამკვეთი:

MINISTRY OF REGIONAL DEVELOPMENT
AND INFRASTRUCTURE OF GEORGIA, TBILISI
ROADS DEPARTMENT OF GEORGIA



საქართველოს რეგიონული განვითარებისა და
ინფრასტრუქტურის სამინისტრო, თბილისი
საქართველოს საავტომობილო გზების
დეპარტამენტი

PROJECT/პროექტი:

UPGRADING OF TBILISI - SAGAREJO AND
SAGAREJO - BAKURTSIKHE
ACTIVITY 2: PREPARATION OF DETAILED DESIGN

თბილისი - საგარეჯო და საგარეჯო - ბაკურციხის
განახლება
აქტივობა 2: დეტალური პროექტის მომზადება

CONSULTANT/კონსულტანტი:



01

29/05/2020

SECOND ISSUE / მეორე საკითხი

0.0 /ო.ქ.

0.0 /ო.ქ.

C.N. /ქ.ნ.

00

29/05/2020

FIRST ISSUE / პირველი საკითხი

0.0 /ო.ქ.

0.0 /ო.ქ.

C.N. /ქ.ნ.

REV/გად.

DATE/თარიღი

ISSUE, SCOPE OF REVISION / საკითხი, ცვლილებების სფერო

PREP/მომზადდა

CHECK/შეამოწმა

APPR/დამტკიცდა

TITLE:

SCALE/მასშტაბი

სათაური:

SCALE/მასშტაბი

1:50 (A1), 1:100 (A3)

BOX CULVERT 1.50x1.50 CL0.005

REINFORCEMENT AND CONCRETE DETAILS

კალდერი: 1.50x1.50 CL0.005

არმატურა და ბეტონის დეტალები

CL0_HYD_01020_005

LR02A 01+020.00

01+020.00

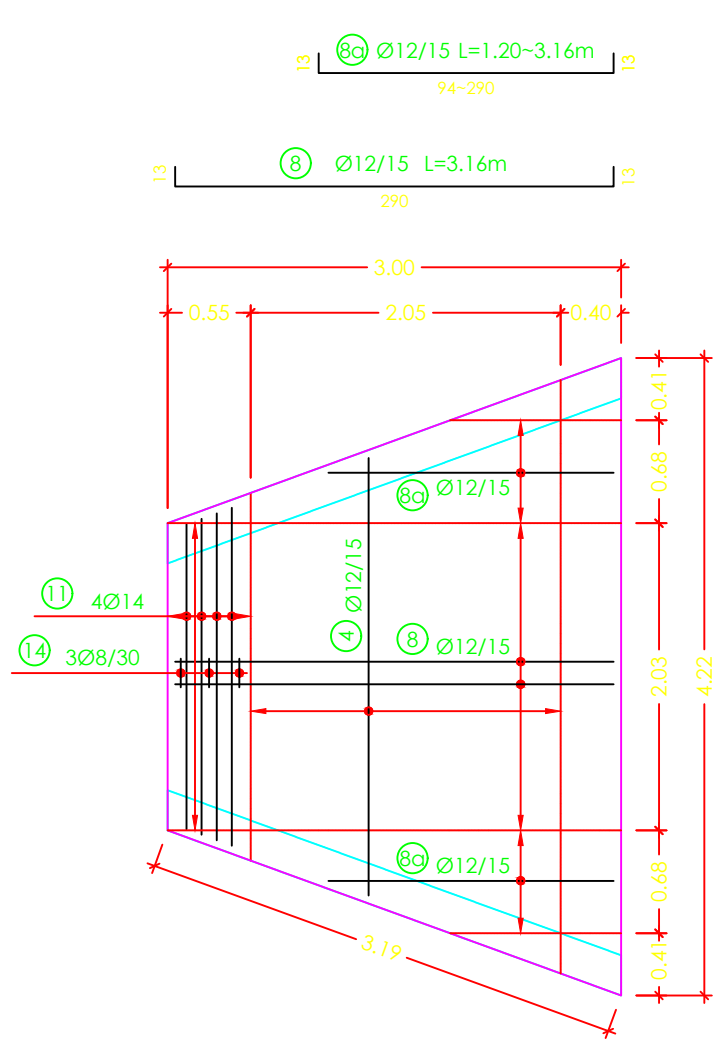
PROJECT/პროექტი

Q290

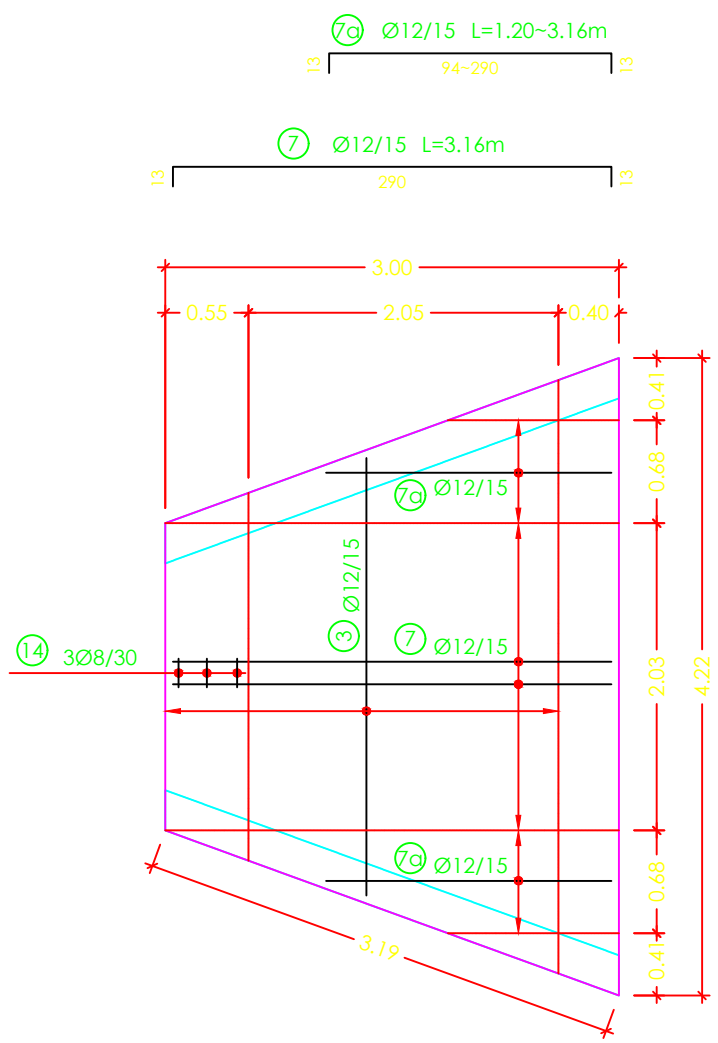
SHEET/გვერდი

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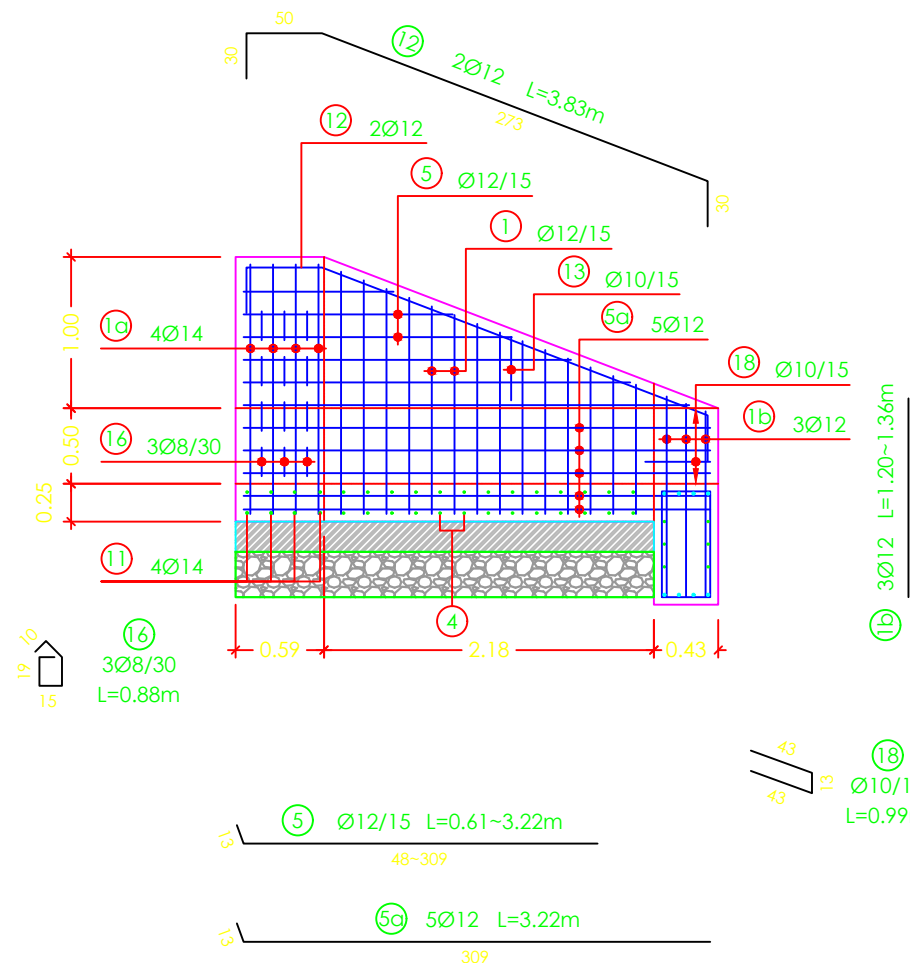
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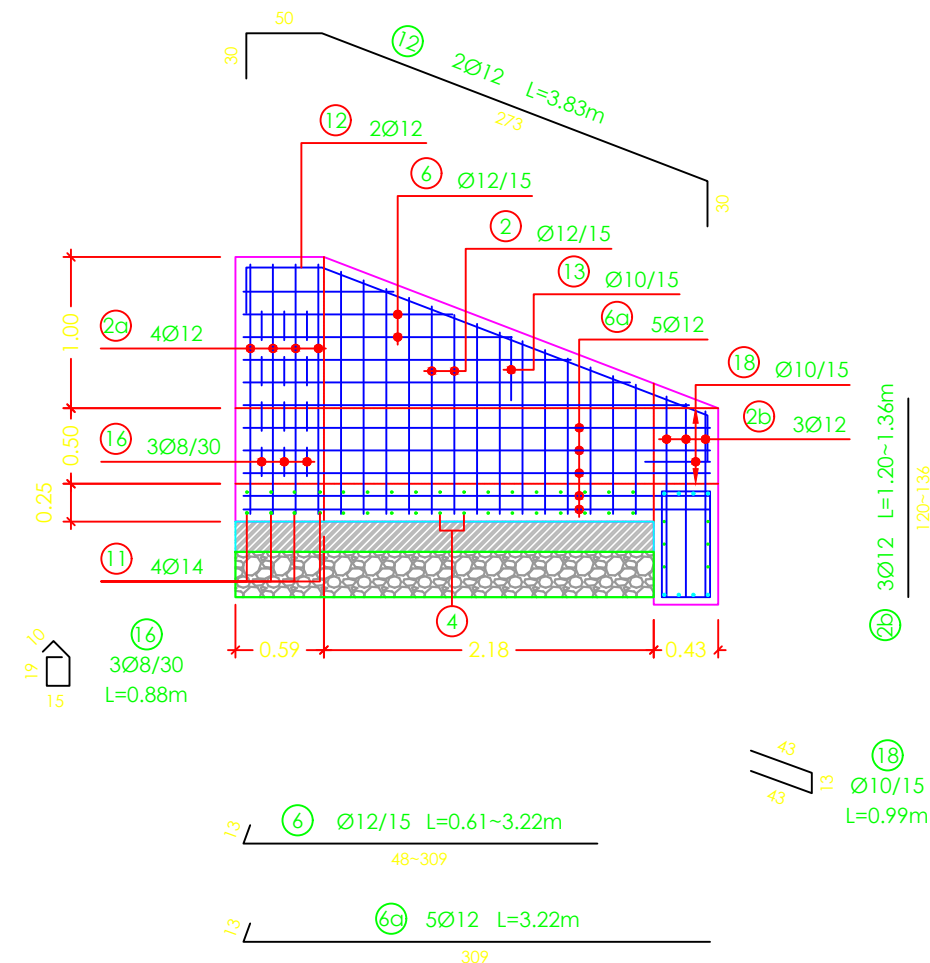
INLET STRUCTURE SLAB
BOTTOM REINFORCEMENT
scale 1:50



INLET STRUCTURE SLAB
TOP REINFORCEMENT
scale 1:50

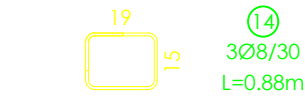
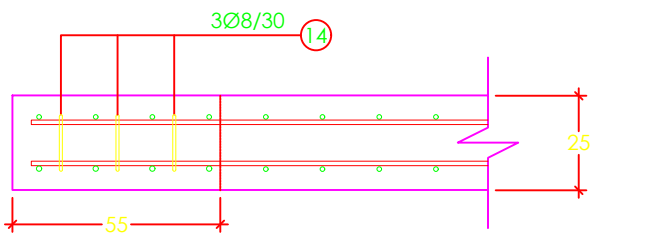


WING WALL - OUTSIDE VIEW
REINFORCEMENT
scale 1:50

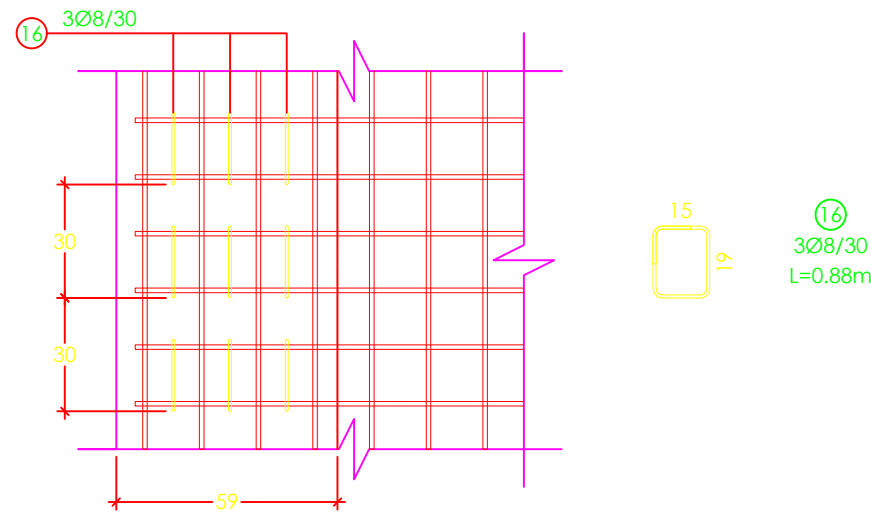


WING WALL - INSIDE VIEW
REINFORCEMENT
scale 1:50

Detail of shear
reinforcement at the slab
scale 1:20



Detail of shear
reinforcement at the wing wall
scale 1:20



STRUCTURAL NOTES

MATERIALS

REINFORCED CONCRETE	C30/37
LEAN CONCRETE	C12/15
STEEL REINFORCEMENT	B500C

LOADS

REINFORCED CONCRETE SELF WEIGHT	25.00 KN/m³
SOIL UNIT WEIGHT	19.00 KN/m³
WATER UNIT WEIGHT	10.00 KN/m³
TRAFFIC LOADS; EC1991-2 / LOAD MODEL 1	
TANDEM SYSTEM (TS); WEIGHT per AXLE	300 KN
UDL SYSTEM; DISTRIBUTED LOAD	9.00 KN/m²
THERMAL ACTIONS; EC1991-5	
TEMPERATURE DIFFERENCE	+5°/-35°
CONCRETE SHRINKAGE TAKEN INTO ACCOUNT	

SEISMIC PARAMETERS

TYPE OF RESPONSE SPECTRUM	I
DESIGN GROUND ACCELERATION	a _g = 0.26 g
IMPORTANCE FACTOR	γ _i = 1.00
SOIL CATEGORY	D
SOIL FACTOR	S = 1.35
BEHAVIOUR FACTOR	q = 1.00

DURABILITY

EXPOSURE CLASS	XD2
CONCRETE COVER	50 mm

SOIL PARAMETERS

MODULUS OF SUBGRADE REACTION	30.000 KN/m²
------------------------------	--------------

STRUCTURAL DESIGN CODES

EN1990	Basis of structural design
EN1991-1	Actions on structures - Part 1: General actions
EN1991-2	Actions on structures - Part 2: Traffic loads on bridges
EN1992-1	Design of concrete structures - Part 1: General rules and rules for buildings
EN1992-2	Design of concrete structures - Part 2: Concrete bridges
EN1997-1	Geotechnical design - Part 1: General rules
EN1998-1	Design of structures for earthquake resistance - Part 1: General rules, seismic actions and rules for buildings
EN1998-2	Design of structures for earthquake resistance - Part 1: Bridges
EN1998-5	Design of structures for earthquake resistance - Part 5: Foundations, retaining structures and geotechnical aspects

INLET STRUCTURE 1.50x1.50

Si01b

scale 1:50

CLIENT/დამკვეთი:

MINISTRY OF REGIONAL DEVELOPMENT
AND INFRASTRUCTURE OF GEORGIA, TBILISI
ROADS DEPARTMENT OF GEORGIA



საქართველოს რეგიონული განვითარებისა და
ინფრასტრუქტურის სამინისტრო, თბილისი
საქართველოს საავტომობილო გზების
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PROJECT/პროექტი:

UPGRADING OF TBILISI - SAGAREJO AND
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განახლება
აქტივობა 2: დეტალური პროექტის მომზადება

CONSULTANT/კონსულტანტი:



AZCOM

REV/გად.

DATE/თარიღი

ISSUE, SCOPE OF REVISION / საკითხი, ცვლილებების სფერო

01
00

29/05/2020

SECOND ISSUE / მეორე საკითხი

FIRST ISSUE / პირველი საკითხი

TITLE:
BOX CULVERT 1.50x1.50 CL0.005
REINFORCEMENT AND CONCRETE DETAILS
LR02A 01+020.00

სათაური:
კულვრტი 1.50x1.50 CL0.005
არმატურა და ბეტონის დეტალები
LR02A 01+020.00

01

02

03

04

SCALE/მასშტაბი

PREP/მომზადდა

CHECK/შეამოწმა

APPR/დამტკიცდა

1:50 (A1), 1:100 (A3)

DRAWING NO/ნახაზის ნომერი

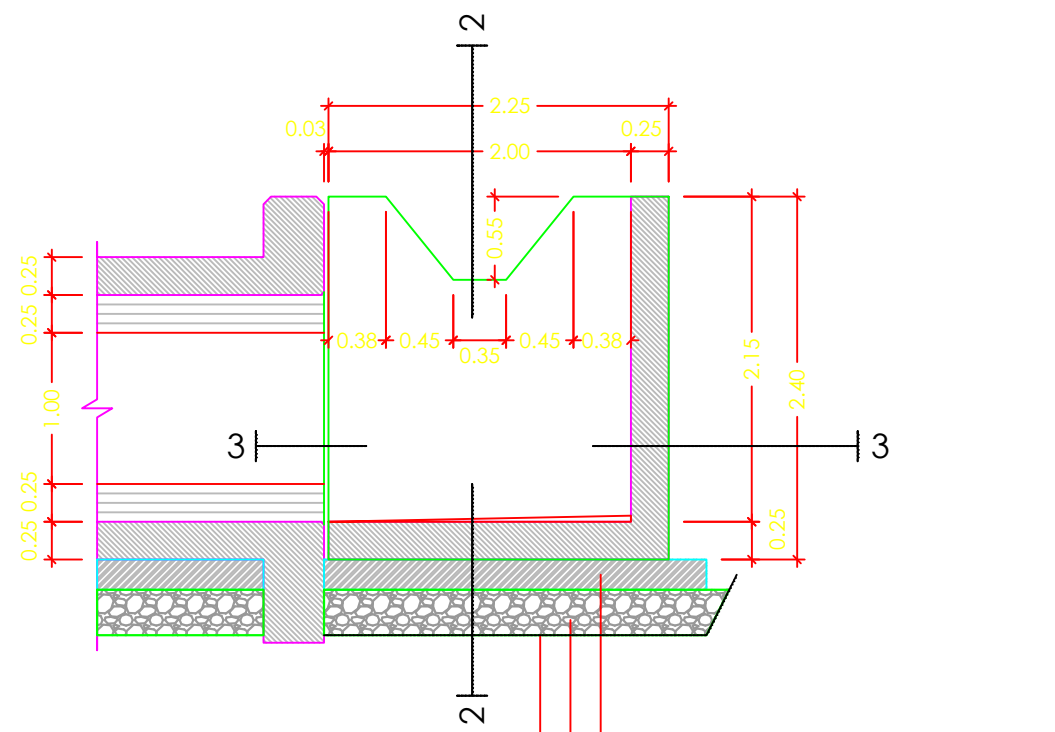
PROJECT/პროექტი

Q290

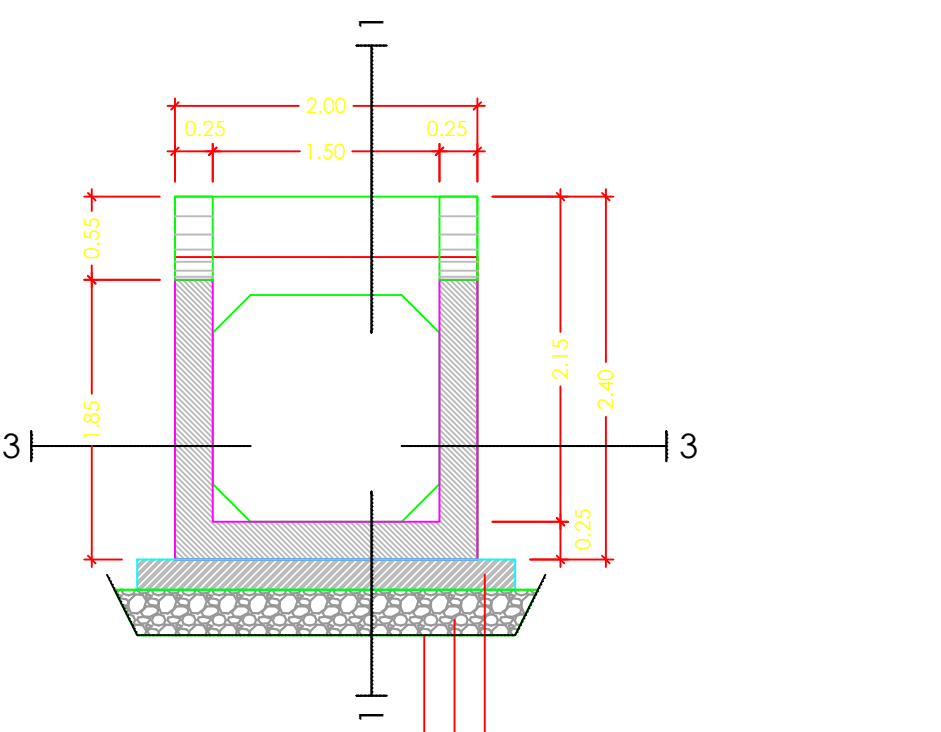
SHEET/გვერდი

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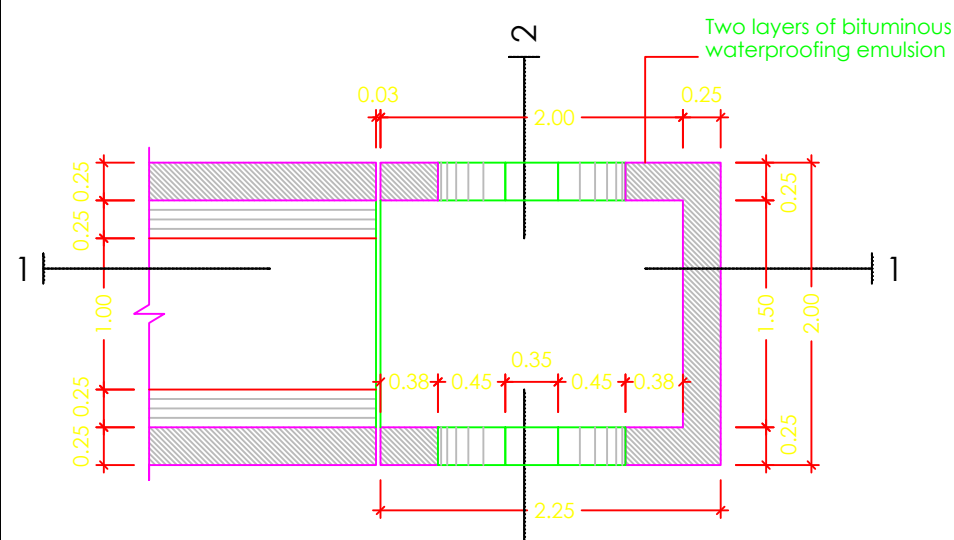
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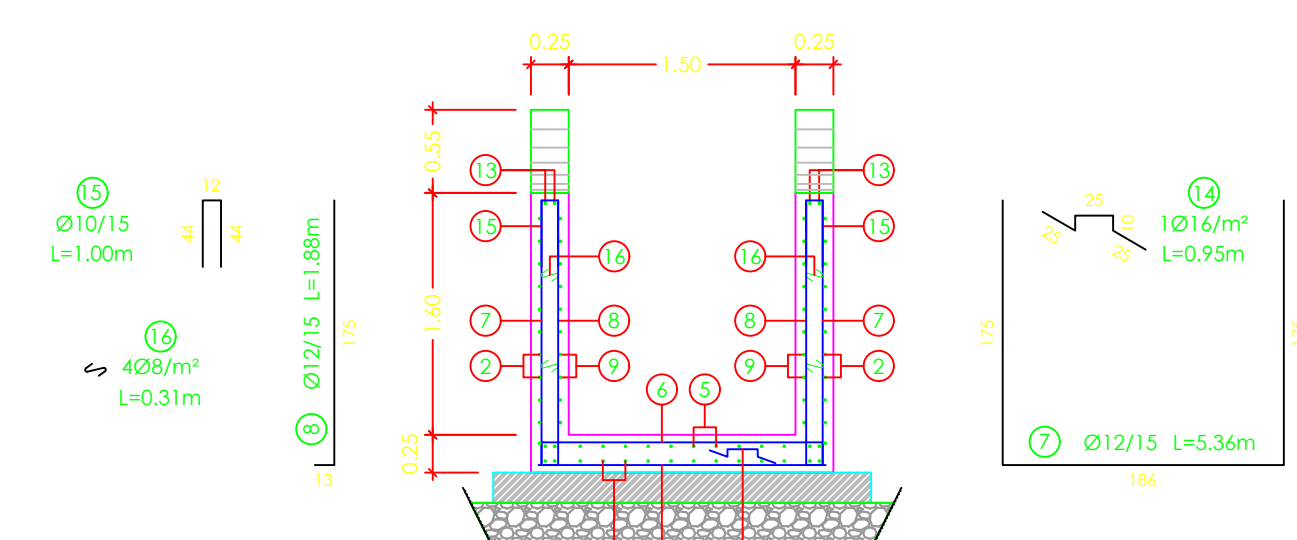
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FORMWORK
scale 1:50



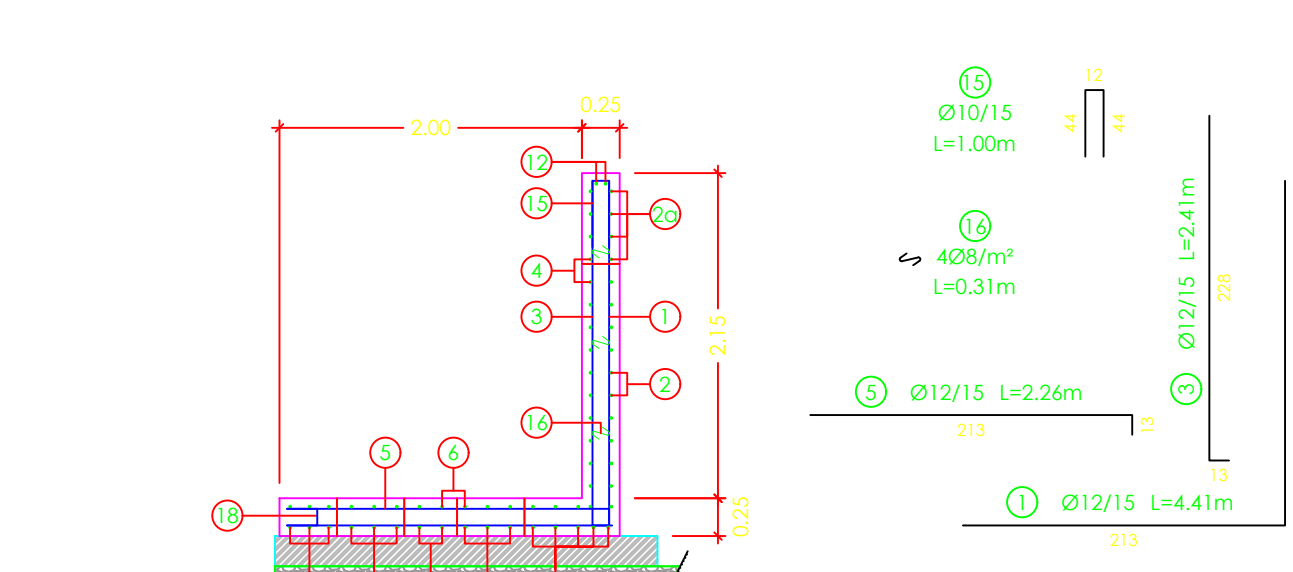
SECTION 2-2
FORMWORK
scale 1:50



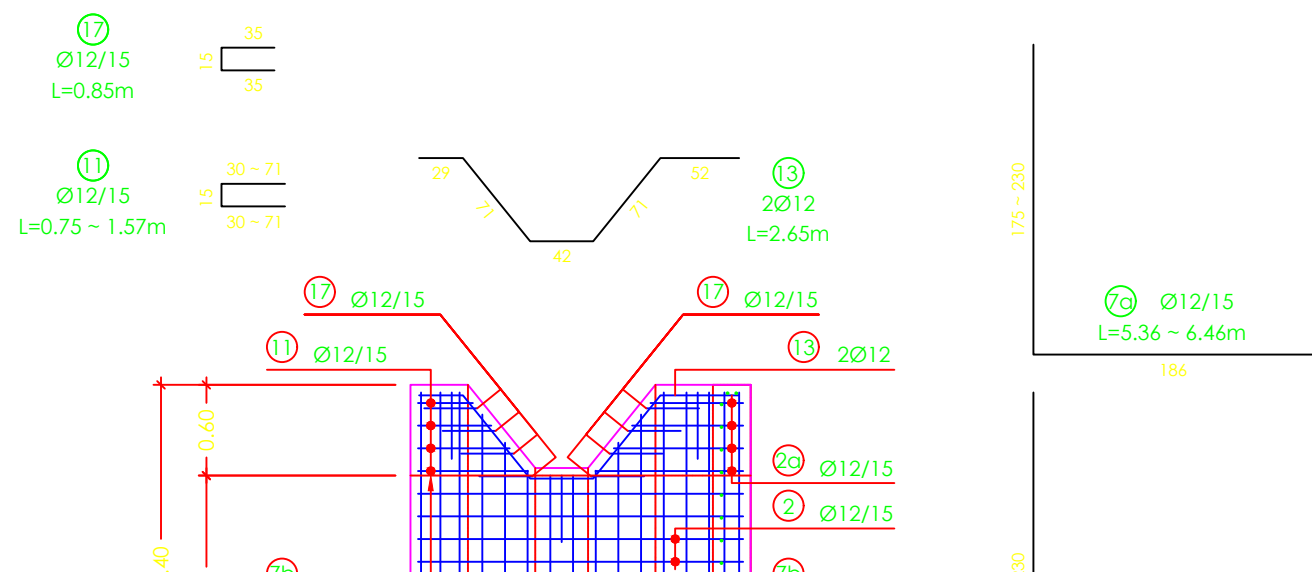
PLAN VIEW
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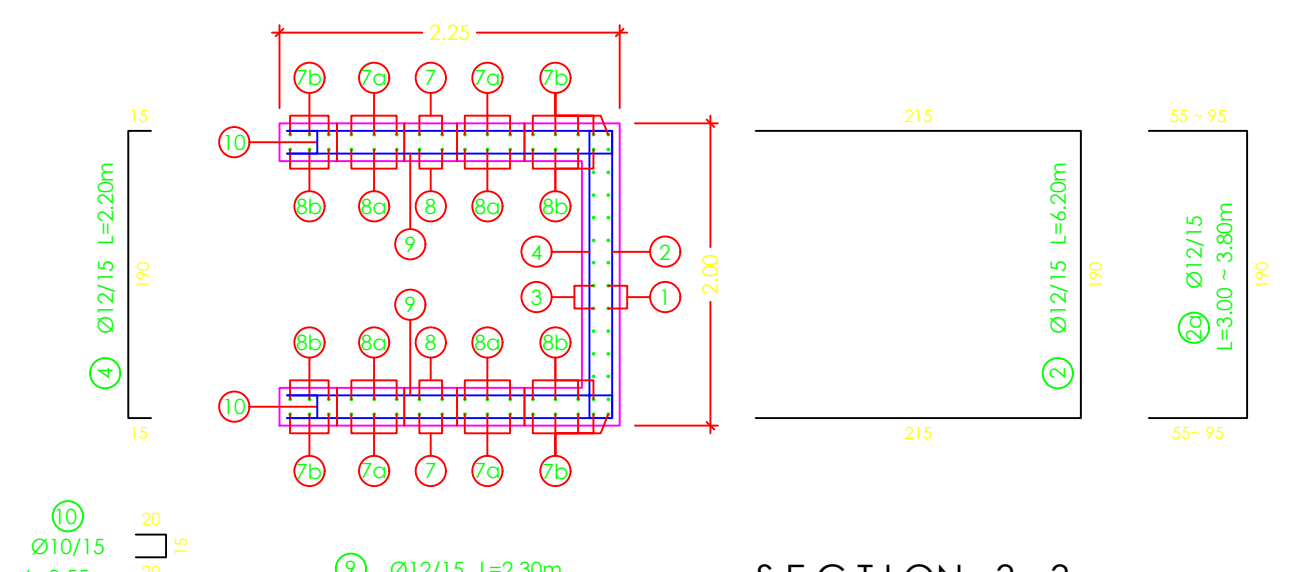
SECTION 2-2
REINFORCEMENT
scale 1:50



SECTION 1-1
REINFORCEMENT
scale 1:50

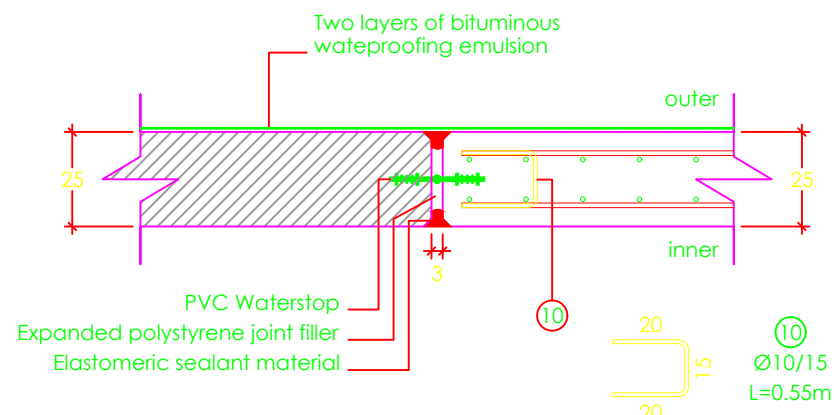


SIDE WALL - OUTSIDE VIEW
REINFORCEMENT
scale 1:50

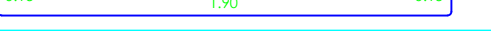
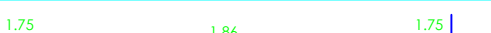
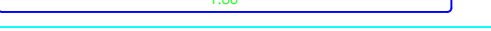
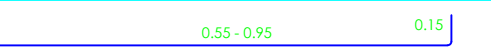
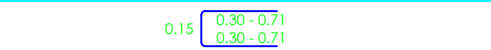
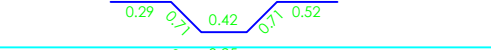
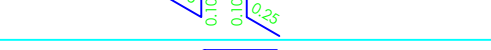
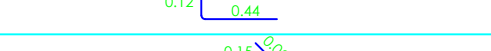
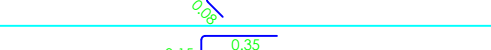
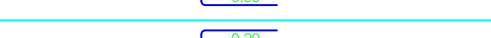


SECTION 3-3
REINFORCEMENT
scale 1:50

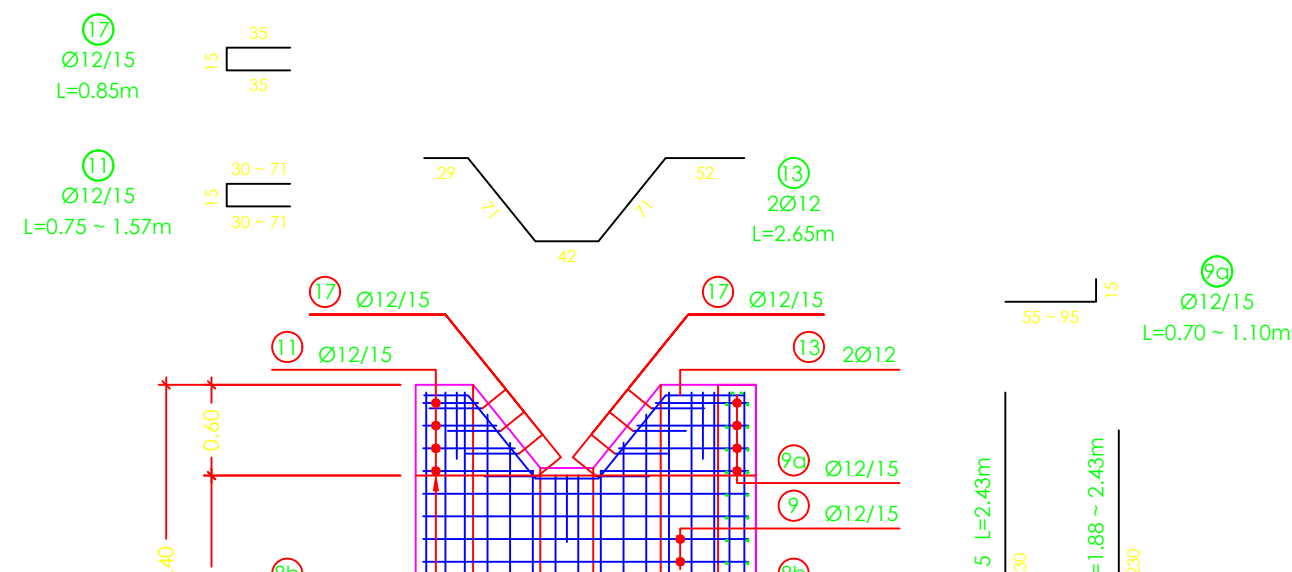
Waterproofing detail
at the walls
scale 1:20



INLET SHAFT 1.50 x 1.50 - QUANTITIES

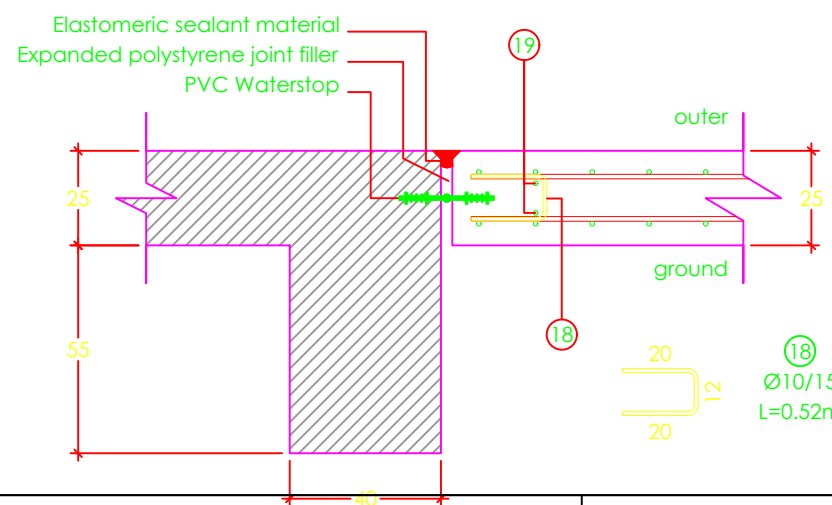
No	SHAPE OF BAR	DIAMETER & SPACING	NUMBER OF BARS	CUTTING LENGTH (m)	TOTAL LENGTH (m)	UNIT WEIGHT (kg/m)	TOTAL WEIGHT (kg)
①		Ø12/15	14	4.41	61.74	0.89	54.83
②		Ø12/15	11	6.20	68.20	0.89	60.56
2a		Ø12/15	4	3.40	13.60	0.89	12.08
③		Ø12/15	10	2.41	24.10	0.89	21.40
④		Ø12/15	14	2.20	30.80	0.89	27.35
⑤		Ø12/15	14	2.26	31.64	0.89	28.10
⑥		Ø12/15	15	2.16	32.40	0.89	28.77
⑦		Ø12/15	2	5.36	10.72	0.89	9.52
7a		Ø12/15	6	5.91	35.46	0.89	31.49
7b		Ø12/15	8	6.46	51.68	0.89	45.89
⑧		Ø12/15	4	1.88	7.52	0.89	6.68
8a		Ø12/15	12	2.16	25.86	0.89	22.96
8b		Ø12/15	14	2.43	34.02	0.89	30.21
⑨		Ø12/15	20	2.30	46.00	0.89	40.85
9a		Ø12/15	8	0.90	7.20	0.89	6.39
⑩		Ø10/15	20	0.55	11.00	0.62	6.79
⑪		Ø12/15	8	1.16	9.28	0.89	8.24
⑫		Ø12	2	1.90	3.80	0.89	3.37
⑬		Ø12	4	2.65	10.60	0.89	9.41
⑭		1Ø16/m ²	3	0.95	2.85	1.58	4.50
⑮		Ø10/15	42	1.00	42.00	0.62	25.91
⑯		408/m ²	48	0.31	14.88	0.40	5.88
⑰		Ø12/15	16	0.85	13.60	0.89	12.08
⑱		Ø10/15	10	0.52	5.20	0.62	3.21
⑲		Ø12	2	1.90	3.80	0.89	3.37
TOTAL (kg)							509.84

LEAN CONCRETE	(m³)	1.25
REINFORCED CONCRETE	(m³)	4.13



SIDE WALL - INSIDE VIEW
REINFORCEMENT
scale 1:50

Waterproofing detail
at the bottom slab
scale 1:20



STRUCTURAL NOTES

MATERIALS

REINFORCED CONCRETE	C30/37
LEAN CONCRETE	C12/15
STEEL REINFORCEMENT	B500C

LOADS

REINFORCED CONCRETE SELF WEIGHT	25.00 kN/m³
SOIL UNIT WEIGHT	19.00 kN/m³
WATER UNIT WEIGHT	10.00 kN/m³
TRAFFIC LOADS: EC1991-2 / LOAD MODEL 1	
TANDEM SYSTEM (TS): WEIGHT per AXLE	300 kN
UDL SYSTEM: DISTRIBUTED LOAD	9.00 kN/m²
THERMAL ACTIONS: EC1991-5	
TEMPERATURE DIFFERENCE	+5°/-35°
CONCRETE SHRINKAGE TAKEN INTO ACCOUNT	

SEISMIC PARAMETERS

TYPE OF RESPONSE SPECTRUM	1
DESIGN GROUND ACCELERATION	a _g = 0.26 g
IMPORTANCE FACTOR	γ = 1.00
SOIL CATEGORY	D
SOIL FACTOR	s = 1.35
BEHAVIOUR FACTOR	q = 1.00

DURABILITY

EXPOSURE CLASS	XD2
CONCRETE COVER	50 mm

SOIL PARAMETERS

MODULUS OF SUBGRADE REACTION	30.000 kN/m²
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STRUCTURAL DESIGN CODES

EN1990	Base of structural design
EN1991-1	Actions on structures - Part 1: General actions
EN1991-2	Actions on structures - Part 2: Traffic loads on bridges
EN1992-1	Design of concrete structures - Part 1: General rules and rules for buildings
EN1992-2	Design of concrete structures - Part 2: Concrete bridges
EN1997-1	Geotechnical design - Part 1: General rules
EN1998-1	Design of structures for earthquake resistance - Part 1: General rules, seismic actions and rules for buildings
EN1998-2	Design of structures for earthquake resistance - Part 1: Bridges
EN1998-5	Design of structures for earthquake resistance - Part 5: Foundations, retaining structures and geotechnical aspects

INLET SHAFT 1.50x1.50

Ss01

scale 1:50

CLIENT/დამკვეთი:

MINISTRY OF REGIONAL DEVELOPMENT
AND INFRASTRUCTURE OF GEORGIA, TBILISI
ROADS DEPARTMENT OF GEORGIA



საქართველოს რეგიონული განვითარებისა და
ინფრასტრუქტურის სამინისტრო, თბილისი
საქართველოს საავტომობილო გზების
დეპარტამენტი

PROJECT/პროექტი:

UPGRADING OF TBILISI - SAGAREJO AND
SAGAREJO - BAKURTSIKHE
ACTIVITY 2: PREPARATION OF DETAILED DESIGN

თბილისი - საგარეჯო და საგარეჯო - ბაკურთსიკის
გაზაფხულის
აქტივობა 2: დეტალური პროექტის მომზადება

CONSULTANT/კონსულტანტი:



01

29/05/2020

DATE/თარიღი

ISSUE, SCOPE OF REVISION / საკითხი, ცვლილებების სფერო

TITLE:

BOX CULVERT 1.50x1.50 CL0.005

REINFORCEMENT AND CONCRETE DETAILS

LROZA 01-020.00

02

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