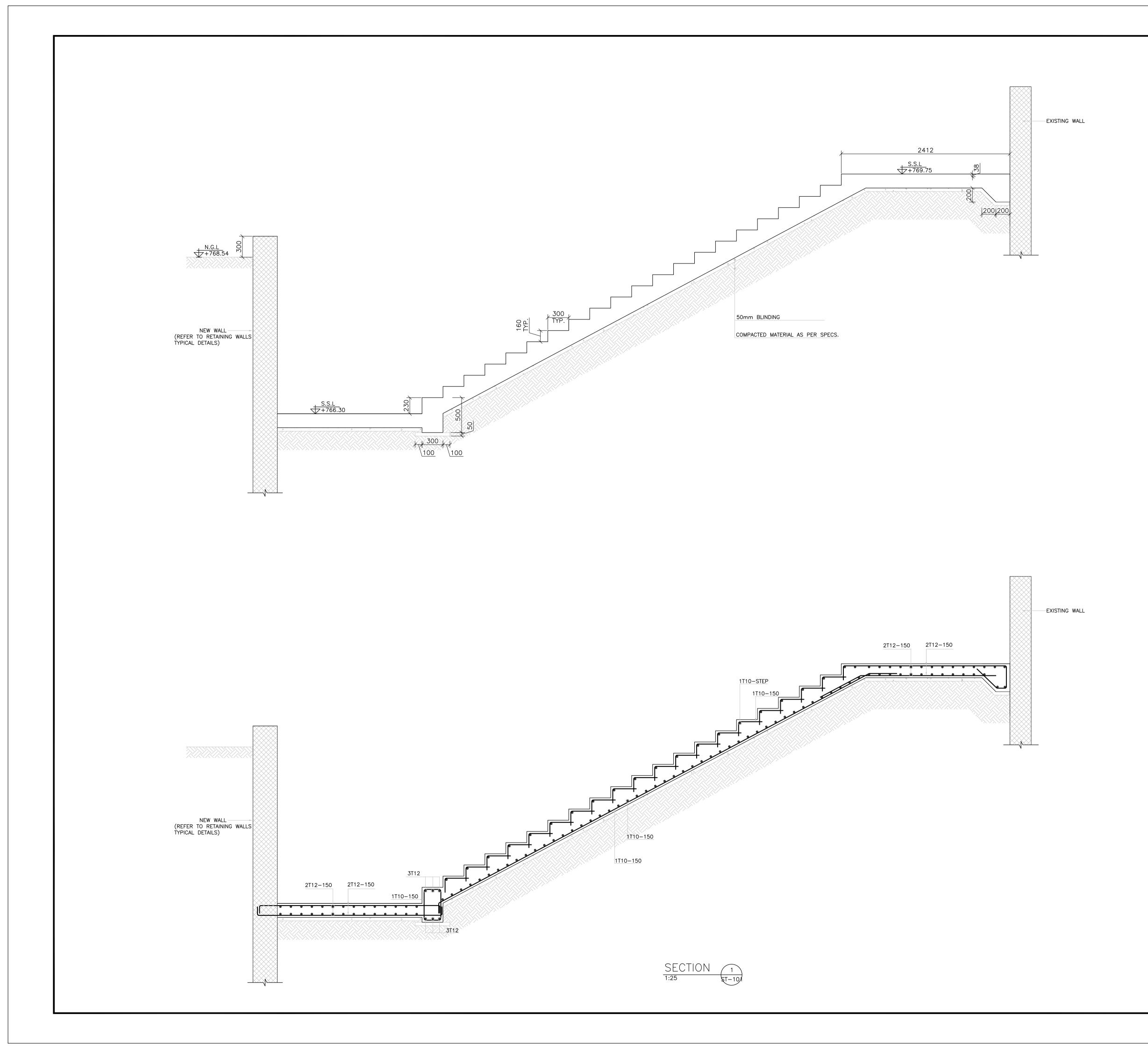
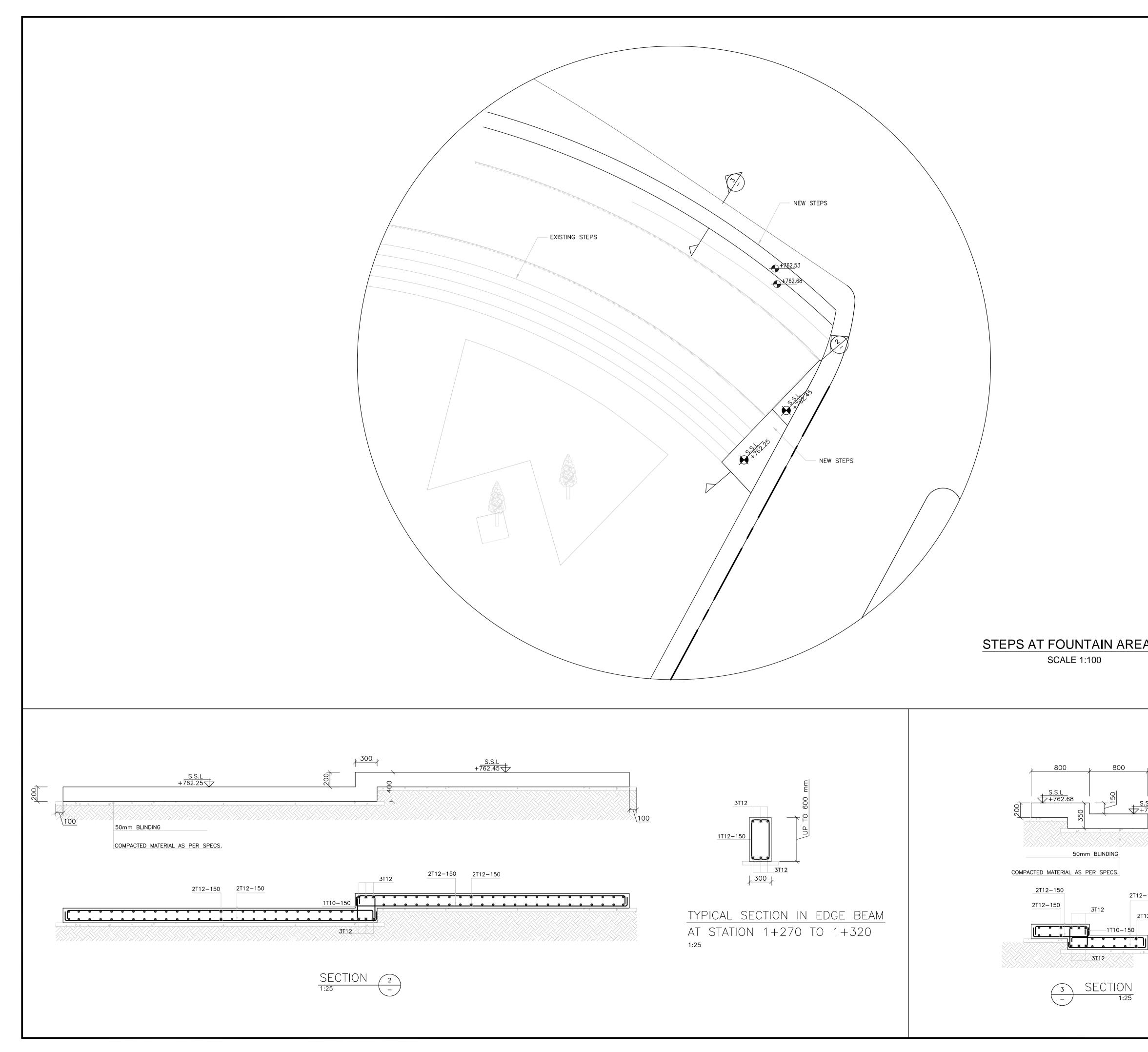


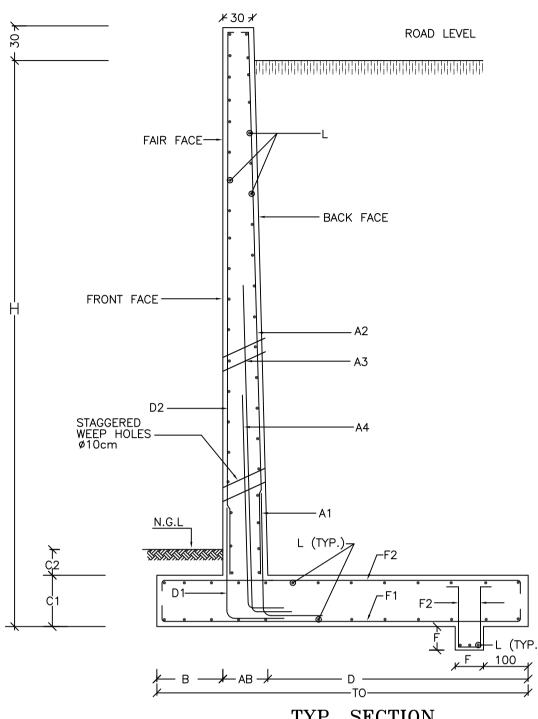
NOTES:-			
Purpose Of Issue	Rev.	Date	Approved
Client:	-	*	
أمانــة عمّان الكبرى	1	•	
الكبرى	Jo C	C	
GREATER AMMA	N ML	JNICIPA	LITY
Project: STRUCTURAL DES			
AMMA			S FUK
Package: PACKAGI	E 8 &	9 B	
OMAR N	MATA	R	
STAIR AT ST	ΔΤΙΛ)NI ()+ ⁶	560
PLAN			
Consultant:			
steer dav	vies	gleav	ve
Design: Drawn by			
R.K.	CAD		I.KH.
Scale: Date: 1:100 MAR	R.2018	Approv	ved: W.Z.
0 2 4	6	8	10
M E T Drawing Number:	ERS		Rev.:
	-10	1	0
	- 🗸		

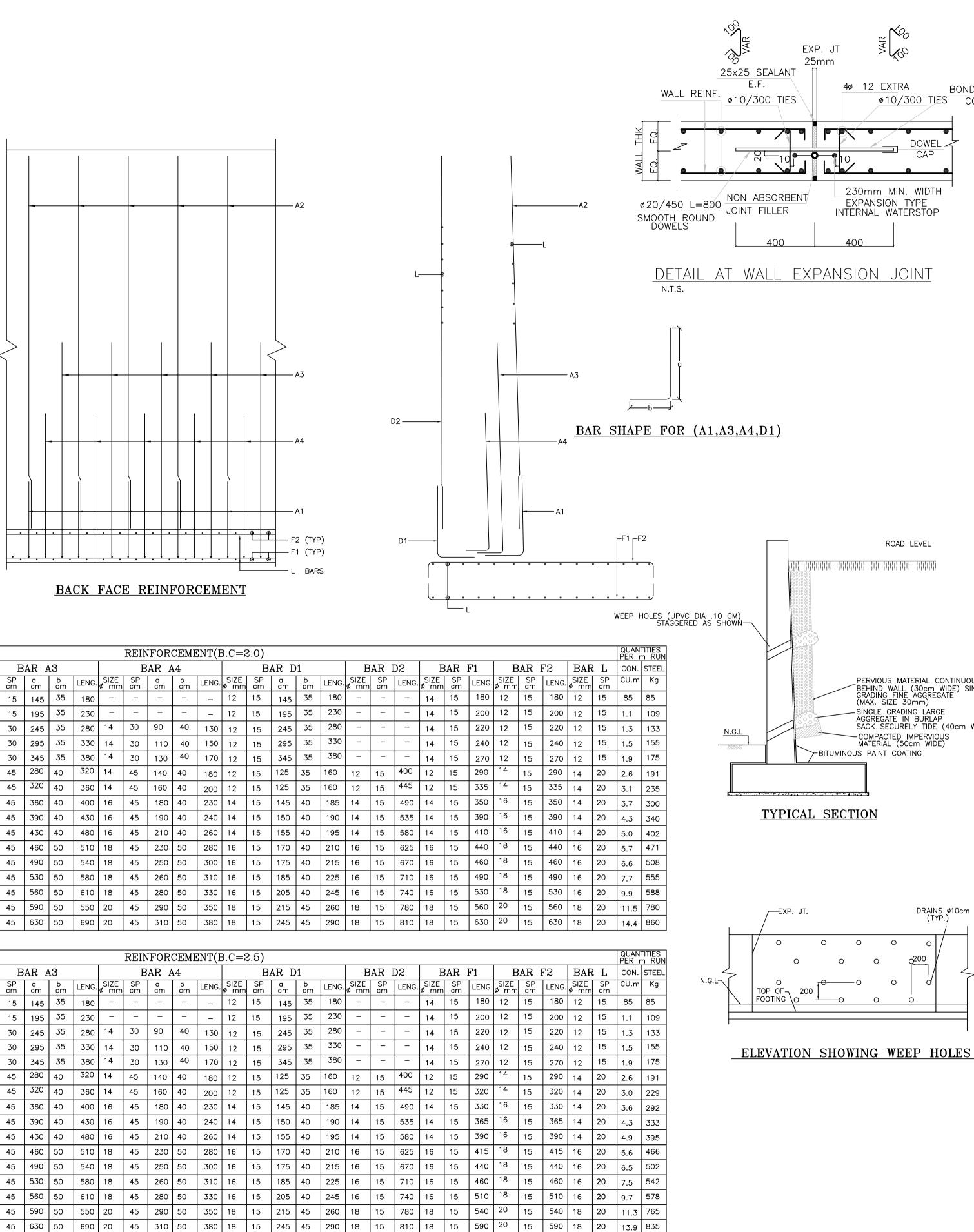


NOTES:-			
Purpose Of Issue Client:	Rev.	Date	Approved
	2	>	
أمانــة عمّان الكبرى	1.	C	
GREATER AMMA	N MU	JNICIPA	LITY
Project:			
STRUCTURAL DESI AMMA			S FUK
Package: PACKAGE			
OMAR N Title:	ΛΑΤΑ	R	
STAIR AT STA			
STRUCTURAI	L SE	CTIONS	;
Steer day	/ies	aleav	ve
		CON	
Design: Drawn by:		Checke	ed:
R.K. Scale: Date:	CAD	Approv	I.KH.
1:25 MAR	R.2018		W.Z.
0 0.5 1	1.5	2	2.5
METE	ERS		
Drawing Number:	= r s 102	ר ר ר	Rev.:



	NOTES:-		
	Purpose Of Issue	Rev. Date	Approved
A PLAN	Client:		
	أمانــة عمّان الكبرى		
	عمان	125	
	GREATER AMMA		PALITY
	STRUCTURAL DESI	GN SERV	ICES FOR
	AMMA	N BRT	
-	Package: PACKAGE	E 8 & 9 B	
		MATAR	
5. <u>S.L</u> -762.53			
	STEPS AT FOU PLAN & STRUCTU		
		des els	
	steer day	ries gle	ave
-150	en	gico	n
12-150	Design: Drawn by		ecked:
	R.K. Scale: Date:	CAD Ap	I.KH.
<u>Þ</u>		R.2018	W.Z.
	0 0.5 1	1.5	2 2.5
	METE	ERS	Pov
	Drawing Number:	103	Rev.: 0
	0-	100	Ŭ





TYP. SECTION

REINFORCEM

	DIME	NSIO	NS																			REIN	IFOR	CEME
Η	C1	AB	D	В	ТО	C2	F		E	BAR A	A1				A2		В	AR A	43			В	AR A	4
cm	cm	cm	cm	cm	cm	cm	cm	SIZE ø mm	SP cm	a cm	b cm	LENG.	SIZE ø mm	SP cm	LENG.	SIZE ø mm	SP cm	a cm	b cm	LENG.	SIZE ø mm	SP cm	a cm	b cm
150	30	30	100	-	130	50	-	-	-	-	-	-	-	-	-	14	15	145	35	180	-	_	-	-
200	30	30	120	-	150	50	-	-	-	-	-	-	-	-	-	14	15	195	35	230	-	-	-	-
250	30	30	140	-	170	50	-	-	-	-	-	-	-	-	-	14	30	245	35	280	14	30	90	40
300	30	30	160	-	190	50	-	-	-	-	-	-	-	-	-	14	30	295	35	330	14	30	110	40
350	35	35	180	-	215	50	-	-	-	-	-	-	-	-	-	14	30	345	35	380	14	30	130	40
400	40	40	200	-	240	50	40	14	45	130	40	170	14	45	400	14	45	280	40	320	14	45	140	40
450	45	45	240	-	285	50	45	14	45	130	40	170	14	45	445	14	45	320	40	360	14	45	160	40
500	50	50	200	50	300	100	50	16	45	150	40	190	16	45	490	16	45	360	40	400	16	45	180	40
550	55	55	200	80	335	100	50	16	45	155	40	195	16	45	535	16	45	390	40	430	16	45	190	40
600	60	60	220	80	360	100	55	16	45	160	40	200	16	45	580	16	45	430	40	480	16	45	210	40
650	65	65	220	100	385	100	55	18	45	175	50	225	18	45	625	18	45	460	50	510	18	45	230	50
700	70	70	220	120	410	100	60	18	45	180	50	230	18	45	670	18	45	490	50	540	18	45	250	50
750	80	80	220	140	440	100	60	18	45	190	50	240	18	45	710	18	45	530	50	580	18	45	260	50
800	100	100	220	160	480	100	60	18	45	210	50	260	18	45	740	18	45	560	50	610	18	45	280	50
850	110	110	220	180	510	100	70	20	45	220	50	270	20	45	780	20	45	590	50	550	20	45	290	50
900	130	130	250	200	580	100	70	20	45	250	50	300	20	45	810	20	45	630	50	690	20	45	310	50

| DIME | NSIO | NS | | | | | |

 | | | |
 | | | | | |
 | | | REIN | IFOR
 | CEM |
|------|--|---|---|---|---|--|---
--
--
--|--|---|---|--|--|--|---|--|---
--|--
--|---|--|--|
| C1 | AB | D | В | ТО | C2 | F | | E

 | BAR A | 41 | | В
 | AR A | A2 | | В | AR A | 13
 | | | В | AR A
 | 4 |
| cm | cm | cm | cm | cm | cm | cm | SIZE
ø mm | SP
cm

 | a
cm | b
cm | LENG. | SIZE
ø mm
 | SP
cm | LENG. | SIZE
ø mm | SP
cm | a
cm | b
cm
 | LENG. | SIZE
ø mm | SP
cm | a
cm
 | b
cm |
| 30 | 30 | 100 | - | 130 | 50 | _ | - | -

 | - | - | - | -
 | - | - | 14 | 15 | 145 | 35
 | 180 | - | _ | -
 | - |
| 30 | 30 | 120 | - | 150 | 50 | _ | - | _

 | - | _ | - | _
 | _ | - | 14 | 15 | 195 | 35
 | 230 | - | _ | -
 | _ |
| 30 | 30 | 140 | - | 170 | 50 | - | - | -

 | - | - | - | -
 | - | - | 14 | 30 | 245 | 35
 | 280 | 14 | 30 | 90
 | 40 |
| 40 | 30 | 160 | - | 190 | 50 | - | - | -

 | - | - | - | -
 | - | - | 14 | 30 | 295 | 35
 | 330 | 14 | 30 | 110
 | 40 |
| 35 | 35 | 180 | - | 215 | 50 | - | - | -

 | - | - | - | -
 | - | - | 14 | 30 | 345 | 35
 | 380 | 14 | 30 | 130
 | 40 |
| 40 | 40 | 200 | - | 240 | 50 | 40 | 14 | 45

 | 130 | 40 | 170 | 14
 | 45 | 400 | 14 | 45 | 280 | 40
 | 320 | 14 | 45 | 140
 | 40 |
| 45 | 45 | 220 | - | 265 | 50 | 45 | 14 | 45

 | 130 | 40 | 170 | 14
 | 45 | 445 | 14 | 45 | 320 | 40
 | 360 | 14 | 45 | 160
 | 40 |
| 50 | 50 | 180 | 50 | 280 | 100 | 50 | 16 | 45

 | 150 | 40 | 190 | 16
 | 45 | 490 | 16 | 45 | 360 | 40
 | 400 | 16 | 45 | 180
 | 40 |
| 55 | 55 | 180 | 80 | 315 | 100 | 50 | 16 | 45

 | 155 | 40 | 195 | 16
 | 45 | 535 | 16 | 45 | 390 | 40
 | 430 | 16 | 45 | 190
 | 40 |
| 60 | 60 | 200 | 80 | 340 | 100 | 55 | 16 | 45

 | 160 | 40 | 200 | 16
 | 45 | 580 | 16 | 45 | 430 | 40
 | 480 | 16 | 45 | 210
 | 40 |
| 65 | 65 | 200 | 100 | 365 | 100 | 55 | 18 | 45

 | 175 | 50 | 225 | 18
 | 45 | 625 | 18 | 45 | 460 | 50
 | 510 | 18 | 45 | 230
 | 50 |
| 70 | 70 | 200 | 120 | 390 | 100 | 60 | 18 | 45

 | 180 | 50 | 230 | 18
 | 45 | 670 | 18 | 45 | 490 | 50
 | 540 | 18 | 45 | 250
 | 50 |
| 80 | 80 | 200 | 140 | 420 | 100 | 60 | 18 | 45

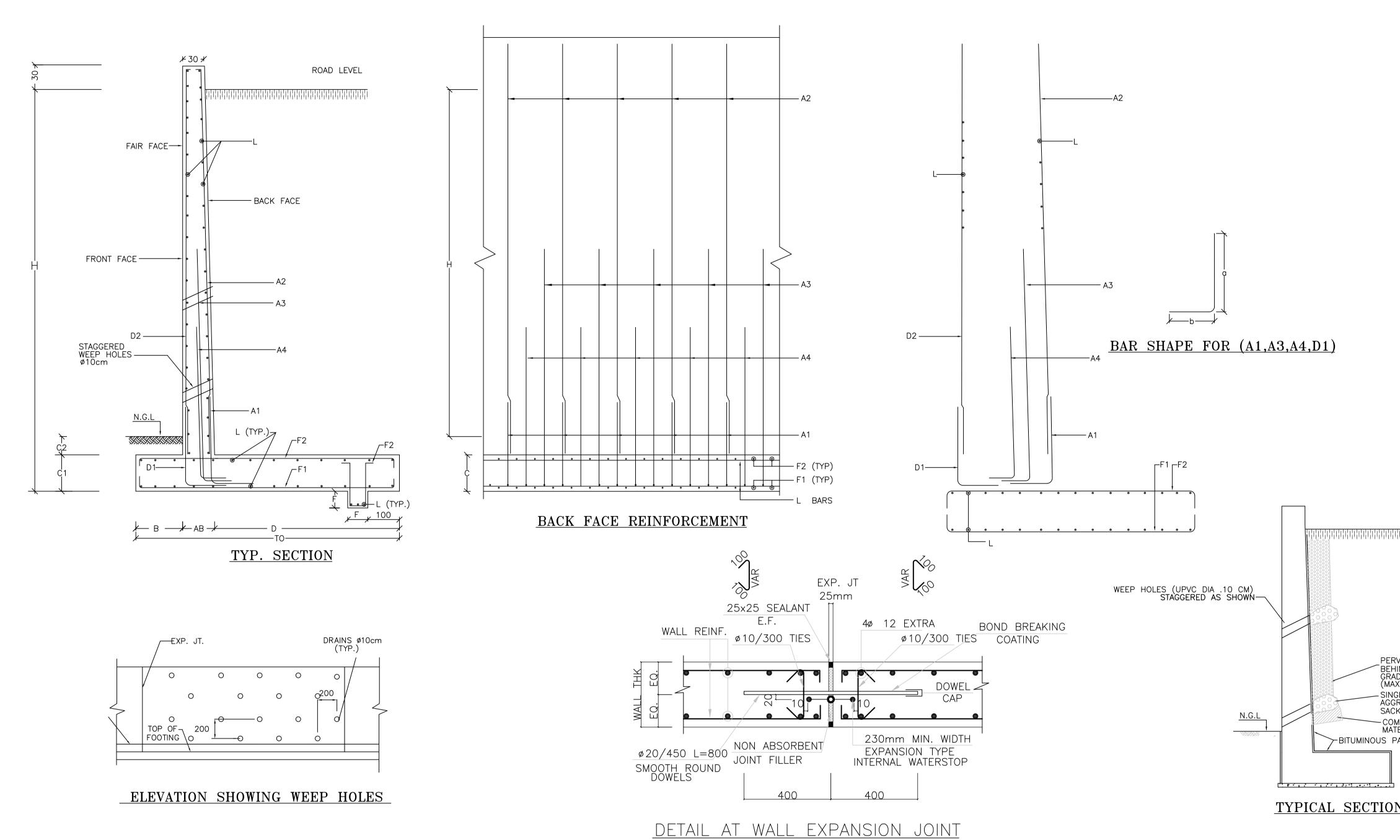
 | 190 | 50 | 240 | 18
 | 45 | 710 | 18 | 45 | 530 | 50
 | 580 | 18 | 45 | 260
 | 50 |
| 100 | 100 | 220 | 140 | 460 | 100 | 60 | 18 | 45

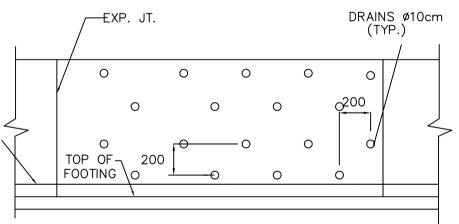
 | 210 | 50 | 260 | 18
 | 45 | 740 | 18 | 45 | 560 | 50
 | 610 | 18 | 45 | 280
 | 50 |
| 110 | 110 | 220 | 160 | 490 | 100 | 70 | 20 | 45

 | 220 | 50 | 270 | 20
 | 45 | 780 | 20 | 45 | 590 | 50
 | 550 | 20 | 45 | 290
 | 50 |
| 130 | 130 | 230 | 180 | 540 | 100 | 70 | 20 | 45

 | 250 | 50 | 300 | 20
 | 45 | 810 | 20 | 45 | 630 | 50
 | 690 | 20 | 45 | 310
 | 50 |
| | C1
cm
30
30
40
30
40
50
55
60
55
60
60
65
70
80
80
100
110 | C1 AB cm cm 30 30 30 30 30 30 30 30 30 30 40 30 40 30 40 30 40 30 40 50 40 40 45 45 50 50 60 60 60 60 60 65 60 80 80 80 100 100 | cm cm cm 30 30 100 30 30 120 30 30 120 30 30 140 40 30 140 40 30 160 40 30 160 40 40 200 40 40 200 50 55 180 50 55 180 50 55 180 50 60 60 200 6 60 60 200 6 65 65 200 70 70 200 80 80 200 100 100 220 | C1 AB D B cm cm cm cm 30 30 100 - 30 30 120 - 30 30 140 - 30 30 140 - 30 30 140 - 40 30 160 - 40 30 160 - 40 40 200 - 40 40 200 - 40 40 200 - 40 55 55 180 80 55 55 180 80 80 50 65 200 100 120 65 65 200 120 140 70 70 200 140 100 100 100 220 140 140 | C1 AB D B TO cm cm cm cm cm cm 30 30 100 - 130 30 30 120 - 150 30 30 140 - 170 40 30 160 - 190 40 30 160 - 190 40 30 160 - 215 40 40 200 - 240 40 40 200 - 265 40 55 55 180 80 315 50 55 180 80 315 60 60 200 100 365 50 70 70 200 120 390 680 80 200 140 420 100 100 220 140 460 | C1 AB D B TO C2 cm cm cm cm cm cm cm 30 30 100 - 130 50 30 30 120 - 150 50 30 30 140 - 170 50 40 30 160 - 190 50 40 30 160 - 190 50 40 30 160 - 190 50 40 30 160 - 215 50 40 40 200 - 240 50 40 45 220 - 265 50 45 45 220 - 265 50 55 55 180 80 315 100 50 65 200 100 365 100 65 65 20 | C1 AB D B TO C2 F cm cm cm cm cm cm cm cm 30 30 100 - 130 50 - 30 30 120 - 150 50 - 30 30 140 - 170 50 - 40 30 160 - 190 50 - 40 30 160 - 190 50 - 40 30 160 - 190 50 - 40 30 160 - 215 50 - 40 40 200 - 240 50 40 45 45 220 - 265 50 45 55 55 180 80 315 100 55 50 60 60 200 100 | C1 AB D B TO C2 F cm cm cm cm cm cm cm g^{SIZE} 30 30 100 - 130 50 - - 30 30 120 - 150 50 - - 30 30 120 - 150 50 - - 30 30 140 - 170 50 - - 40 30 160 - 190 50 - - 40 30 160 - 190 50 - - 40 30 160 - 215 50 - - 40 40 200 - 240 50 40 14 45 45 220 - 265 50 45 14 55 55 180 80 315 100 55 16 66 60 200 100 <td< td=""><td>C1 AB D B TO C2 F \longrightarrow B SP cm cm cm cm cm cm cm spice spice<</td><td>C1 AB D B TO C2 F \mathbb{B} \mathbb{B} \mathbb{C} \mathbb{C}</td><td>C1 AB D B TO C2 F \mathbb{B} \mathbb{B} \mathbb{C} \mathbb{C}</td><td>C1 AB D B TO C2 F $BRRAI$ cm g_{SIZE} SP_{CM} C_{CM} b_{m} LENG. 30 30 100 - 130 50 -</td><td>C1 AB D B TO C2 F $BRRAI$ B cm cm cm</td></td<> <td>C1 AB D B TO C2 F \mathbb{B} BAR AI \mathbb{B} BAR AI cm cm cm cm cm cm cm cm slZe SlZe SlZe SlZe b LENG \mathcal{S}IZE SlZE SlZE</td> <td>C1 AB D B TO C2 F BAR<al< th=""> BAR A2 cm slZE SP 0 cm b LENG slZE SP SZ</al<></td> <td>C1 AB D B TO C2 F $\exists A I I I I I I I I I I I I I I I I I I$</td> <td>C1 AB D B TO C2 F $\bigcirc SIZE$ SP $\bigcirc m$ $\bigcirc m$ $\bigcirc SIZE$ $\bigcirc SIZE$ $\bigcirc m$ $\square m$</td> <td>C1 AB D B TO C2 F $\rightarrow AAA$ $BAR A2$ $\rightarrow BAR A2$ $\rightarrow BAR A2$ cm <td< td=""><td>C1 AB D B TO C2 F $BAR A1$ $BAR A2$ $BAR A2$ $BAR A2$ cm cm</td><td>C1 AB D B TO C2 F Image: Algoright of the state of the sta</td><td>C1 AB D B TO C2 F BAR A BAR BAR A BAR A<td>C1 AB D B TO C2 F BAR AI BAR A2 BAR A3 b</td><td>C1 AB D B TO C2 F EAR A! BAR A2 EAR A! BAR A SIZE SIZE</td></td></td<></td> | C1 AB D B TO C2 F \longrightarrow B SP cm cm cm cm cm cm cm spice spice< | C1 AB D B TO C2 F \mathbb{B} \mathbb{B} \mathbb{C} | C1 AB D B TO C2 F \mathbb{B} \mathbb{B} \mathbb{C} | C1 AB D B TO C2 F $BRRAI$ cm cm g_{SIZE} SP_{CM} C_{CM} b_{m} LENG. 30 30 100 - 130 50 - | C1 AB D B TO C2 F $BRRAI$ B cm cm cm | C1 AB D B TO C2 F \mathbb{B} BAR AI \mathbb{B} BAR AI cm cm cm cm cm cm cm cm slZe SlZe SlZe SlZe b LENG \mathcal{S} IZE SlZE SlZE | C1 AB D B TO C2 F BAR <al< th=""> BAR A2 cm slZE SP 0 cm b LENG slZE SP SZ</al<> | C1 AB D B TO C2 F $\exists A I I I I I I I I I I I I I I I I I I $ | C1 AB D B TO C2 F $\bigcirc SIZE$ SP $\bigcirc m$ $\bigcirc m$ $\bigcirc SIZE$ $\bigcirc SIZE$ $\bigcirc m$ $\square m$ | C1 AB D B TO C2 F $\rightarrow AAA$ $BAR A2$ $\rightarrow BAR A2$ $\rightarrow BAR A2$ cm cm <td< td=""><td>C1 AB D B TO C2 F $BAR A1$ $BAR A2$ $BAR A2$ $BAR A2$ cm cm</td><td>C1 AB D B TO C2 F Image: Algoright of the state of the sta</td><td>C1 AB D B TO C2 F BAR A BAR BAR A BAR A<td>C1 AB D B TO C2 F BAR AI BAR A2 BAR A3 b</td><td>C1 AB D B TO C2 F EAR A! BAR A2 EAR A! BAR A SIZE SIZE</td></td></td<> | C1 AB D B TO C2 F $BAR A1$ $BAR A2$ $BAR A2$ $BAR A2$ cm cm | C1 AB D B TO C2 F Image: Algoright of the state of the sta | C1 AB D B TO C2 F BAR A BAR BAR A BAR A <td>C1 AB D B TO C2 F BAR AI BAR A2 BAR A3 b</td> <td>C1 AB D B TO C2 F EAR A! BAR A2 EAR A! BAR A SIZE SIZE</td> | C1 AB D B TO C2 F BAR AI BAR A2 BAR A3 b | C1 AB D B TO C2 F EAR A! BAR A2 EAR A! BAR A SIZE SIZE |

	NOTES:-
D BREAKING OATING	
US NGLE	
WIDE)	
	Purpose Of Issue Rev. Date Approved
	أمانـة عمّان
	عمان الكبرى
	GREATER AMMAN MUNICIPALITY Project:
	STRUCTURAL DESIGN SERVICES FOR
	AMMAN BRT
	Package:
>	PACKAGE 8 & 9 B OMAR MATAR
	Title
	RETAINING WALLS
	STRUCTURAL DETAILS
_	(sheet 1 of 2) Consultant:
	steer davies gleave
	Design: Drawn by: Checked:
	R.K. CAD I.KH.
	Scale: Date: Approved: N.T.S MAR.2018 W.Z.
	METERS
	Drawing Number: Rev.:
	S-104 0



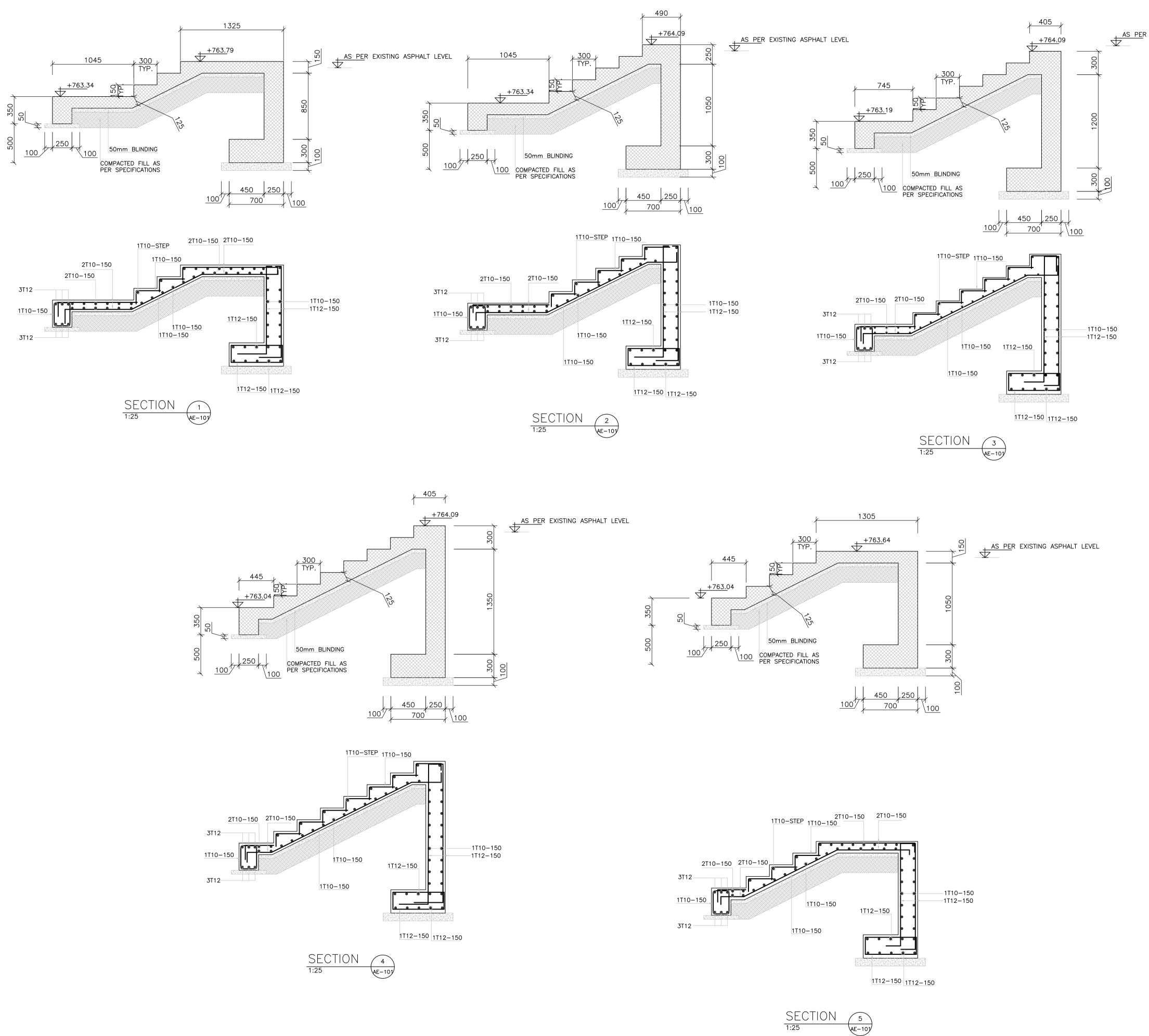


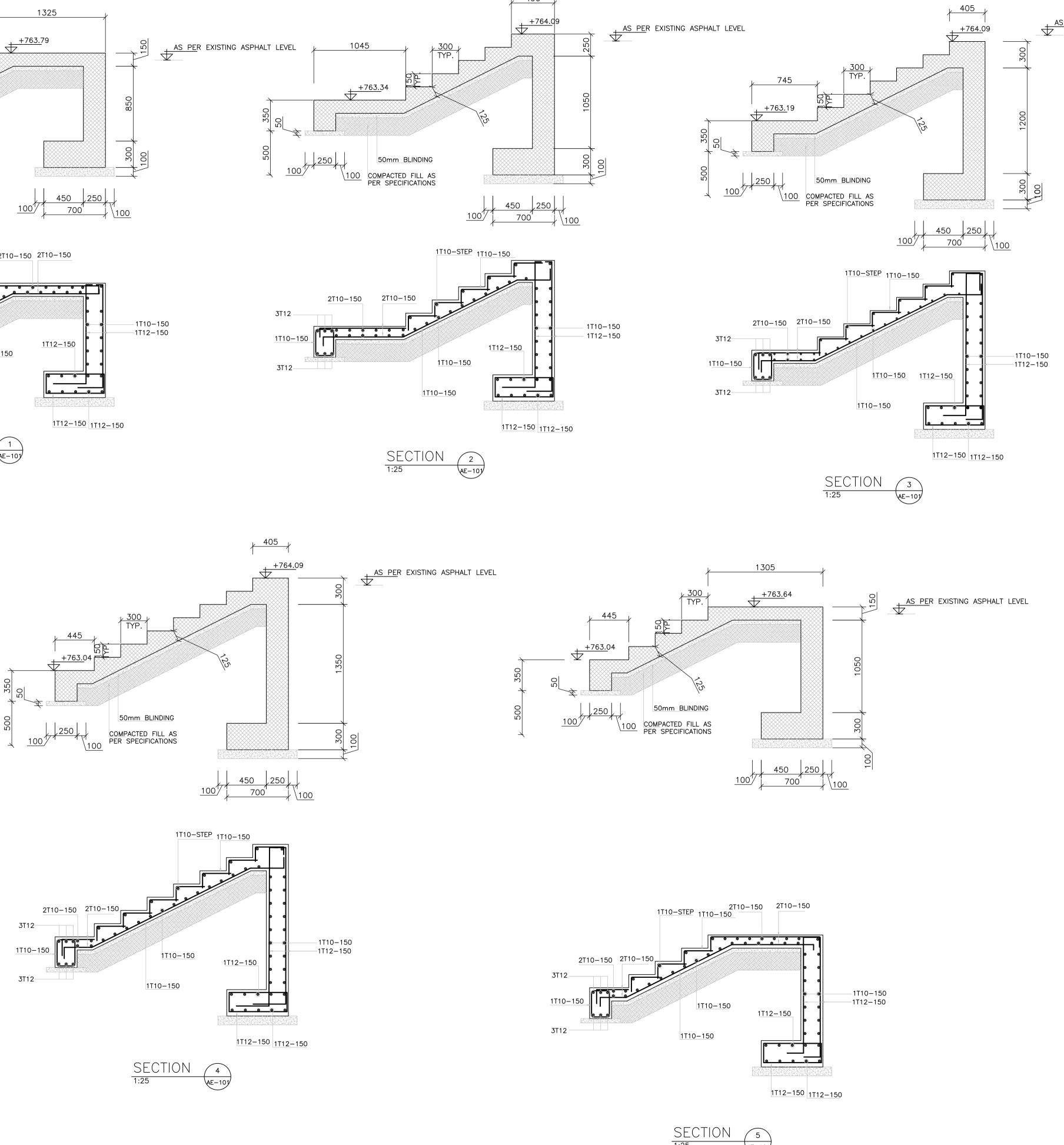


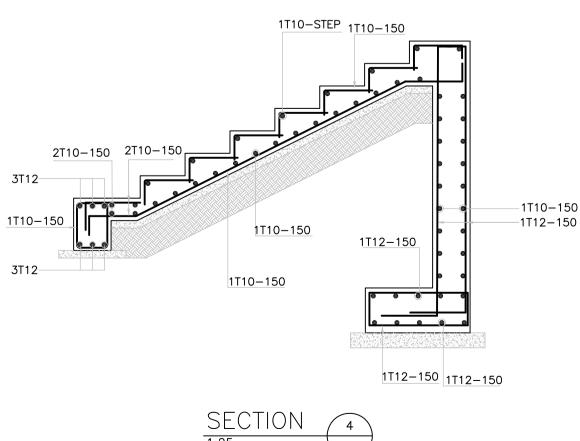
	DIME	NSIO	NS																			REIN	IFOR	CEMI	ENT(I	B.C =	3.0)															QUAN PER 1	TITIES m RU
Η	C1	AB	D	В	ТО	C2	F			BAR	A1			BAR	A2			BAR A	43			В	AR A	4			B	AR D)1			AR I)2	E	BAR I	F1	В	AR]			RL		
cm	cm	cm	cm	cm	cm	cm	cm	SIZE Ø mr	SP cm	a cm	b cm	LENG	SIZE	SP cm	LENG.	SIZE ø mm	SP cm	a cm	b cm	LENG.	SIZE ø mm	SP cm	a cm	b cm	LENG.	SIZE ø mr	SP cm	a cm	b cm	LENG.	SIZE ø mm	SP cm	CU.m	Kg									
150	30	30	100	-	130	50	_	-	_	-	-	-	-	-	-	14	15	145	35	180	_	_	_	_	_	12	15	145	35	180	-	-	_	14	15	180	12	15	180	12	15	.85	85
200	30	30	120	-	150	50	_	-	-	-	-	-	-	-	-	14	15	195	35	230	_	_	_	_	_	12	15	195	35	230	-	—	_	14	15	200	12	15	200	12	15	1.1	109
250	30	30	140	-	170	50	_	-	-	-	-	-	-	-	-	14	30	245	35	280	14	30	90	40	130	12	15	245	35	280	-	-	-	14	15	220	12	15	220	12	15	1.3	133
300	40	30	160	-	190	50	_	-	-	-	-	-	-	-	-	14	30	295	35	330	14	30	110	40	150	12	15	295	35	330	-	-	-	14	15	240	12	15	240	12	15	1.5	155
350	35	35	180	-	215	50	_	-	-	-	-	-	-	-	-	14	30	345	35	380	14	30	130	40	170	12	15	345	35	380	-	-	-	14	15	270	12	15	270	12	15	1.9	175
400	40	40	200	-	240	50	40	14	45	130	40	170	14	45	400	14	45	280	40	320	14	45	140	40	180	12	15	125	35	160	12	15	400	12	15	290	14	15	290	14	20	2.6	191
450	45	45	200	-	245	50	45	14	45	130	40	170	14	45	445	14	45	320	40	360	14	45	160	40	200	12	15	125	35	160	12	15	445	12	15	295	14	15	295	14	20	2.9	227
500	50	50	1.5	50	250	100	50	14	45	150	40	190	16	45	490	16	45	360	40	400	16	45	180	40	230	14	15	145	40	185	14	15	490	14	15	300	16	15	300	14	20	3.5	282
550	55	55	180	50	295	100	50	14	45	155	40	195	16	45	535	16	45	390	40	430	16	45	190	40	240	14	15	150	40	190	14	15	535	14	15	350	16	15	350	14	20	4.2	325
600	60	60	180	80	320	100	55	16	45	160	40	200	16	45	580	16	45	430	40	480	16	45	210	40	260	14	15	155	40	195	14	15	580	14	15	370	16	15	370	14	20	4.8	388
650	65	65	200	80	345	100	55	16	45	175	50	225	18	45	625	18	45	460	50	510	18	45	230	50	280	16	15	170	40	210	16	15	625	16	15	395	18	15	395	16	20	5.5	460
700	70	70	200	100	370	100	60	16	45	180	50	230	18	45	670	18	45	490	50	540	18	45	250	50	300	16	15	175	40	215	16	15	670	16	15	420	18	15	420	16	20	6.4	496
750	80	80	200	120	400	100	60	18	45	190	50	240	18	45	710	18	45	530	50	580	18	45	260	50	310	16	15	185	40	225	16	15	710	16	15	450	18	15	450	16	20	7.4	539
800	100	100	200	120	420	100	60	18	45	210	50	260	18	45	740	18	45	560	50	610	18	45	280	50	330	16	15	205	40	245	16	15	740	16	15	420	18	15	420	16	20	9.3	560
850	110	110	200	140	450	100	70	20	45	220	50	270	20	45	780	20	45	590	50	550	20	45	290	50	350	18	15	215	45	260	18	15	780	18	15	450	20	15	450	18	20	10.8	743
900	130	130	220	160	510	100	70	20	45	250	50	300	20	45	810	20	45	630	50	690	20	45	310	50	380	18	15	245	45	290	18	15	810	18	15	560	20	15	560	18	20	13.5	817

N.T.S.

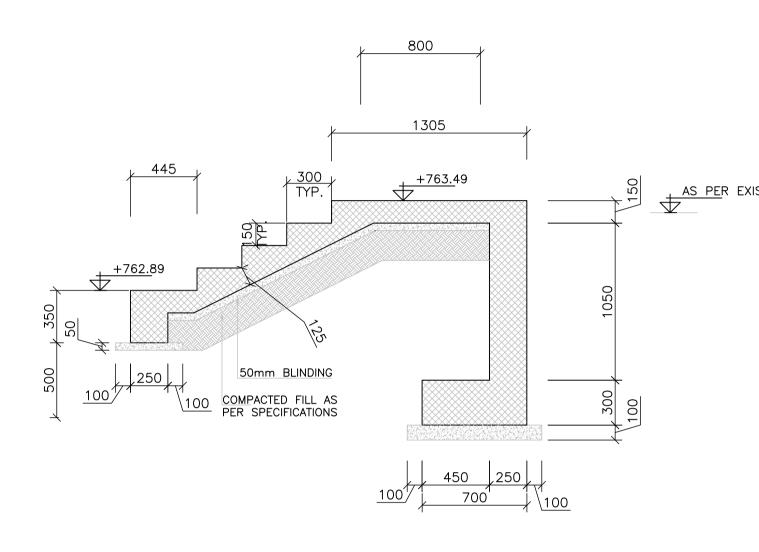
		2
	NOTES:-	
ROAD LEVEL		
RVIOUS MATERIAL CONTINUOUS HIND WALL (30cm WIDE) SINGLE ADING FINE AGGREGATE AX. SIZE 30mm)		
GLE GRADING LARGE GREGATE IN BURLAP K SECURELY TIDE (40cm WIDE)	Purpose Of Issue	Rev. Date Approved
MPACTED IMPERVIOUS TERIAL (50cm WIDE)	Client:	
PAINT COATING	أمانــة عمّان	
	الكبرى	Jõc
N		N MUNICIPALITY
	Project:	
		IGN SERVICES FOR
	Package:	
	PACKAGI OMAR N	
		G WALLS
	STRUCTUR	
	(sheet	2 of 2)
	Consultant:	vior alegue
	steer day	
	en	gicon
	Design: Drawn by R.K.	: Checked: CAD I.KH.
	Scale: Date:	Approved:
		R.2018 W.Z.
	MET	E R S
	Drawing Number:	Rev.:
	<u> </u>	·105 °

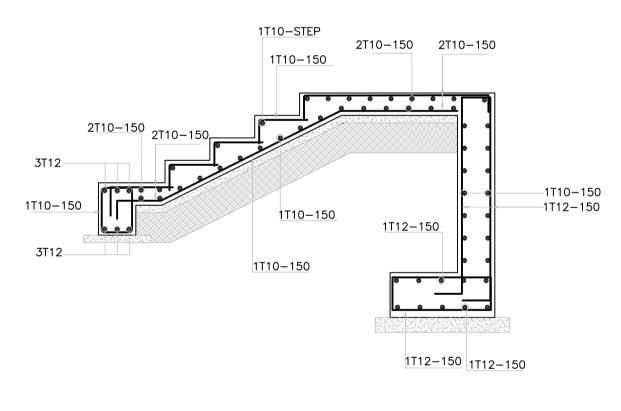




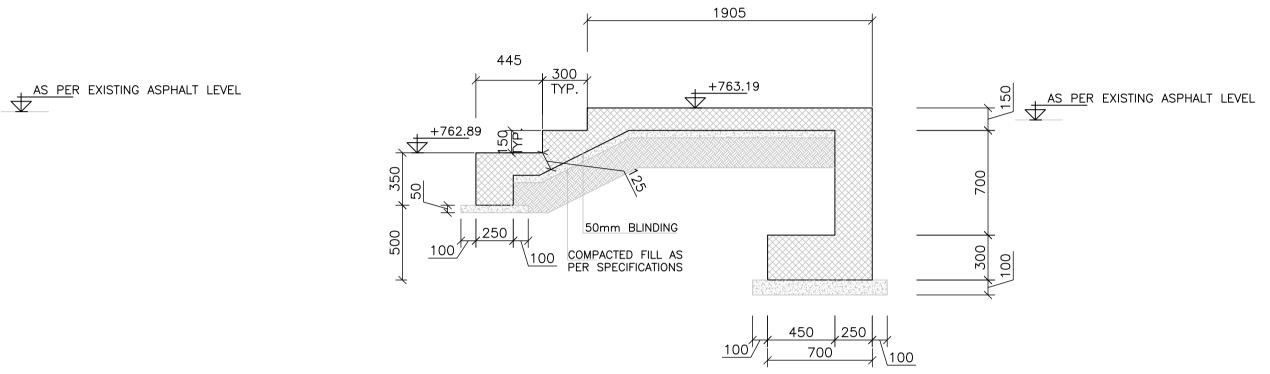


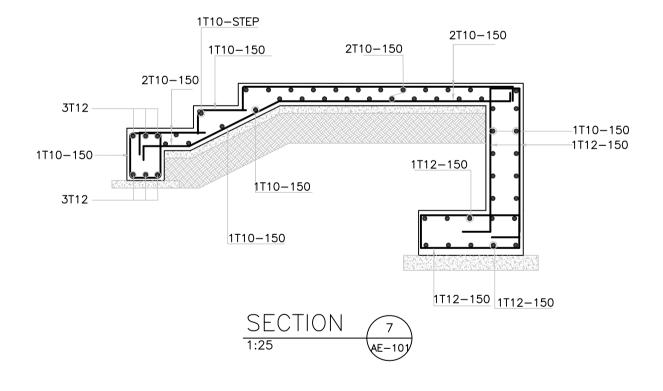
	NOTES:-		
<u>E</u> R EXISTING ASPHALT LEVEL			
	Purpose Of Issue	Rev. Date	Approved
	أمانـة عمّان		
	الكبرى	JÖC	
	GREATER AMMA	AN MUNICII	PALITY
	STRUCTURAL DES	IGN SERVI	CES FOR
	Package: PACKAG OMAR I		
		T 1 OF 2)	
	(From St. 0+034.5) Consultant:		105.46)
	steer day	vies ale	ave
		qico	
	Design: Drawn by	/: Che	ecked:
	R.K. Scale: Date:		I.KH.
	1:100 MAI 0 2 4	R.2018 6	W.Z. 8 <u>1</u> 0
	MET		
	Drawing Number:	-106	Rev.: 0











NOTES:-			
Purpose Of Issue	Rev.	Date	Approved
Client:		•	
أمانــة عمّان الكبرى		~	
الكبرى	1	C	
GREATER AMMA	-1 -		
Project:			
STRUCTURAL DES AMMA			S FOR
Package: PACKAGI OMAR N			
Title: STAIRS STRUC	TURA	AL DET	AILS
(SHEE ⁻ (From St. 0+034.57			5 46)
Consultant:			
E steer day	vies	aleav	/e
		5	
		Con	
Design: Drawn by R.K.	CAD	Checke	ed: I.KH.
Scale: Date: 1:25 MAR	R.2018	Approv	red: W.Z.
0 0.5 1	1.5	2	2.5
	1.5		
MET			*****
Drawing Number:		7	Rev.: