

STAIR AT STATION 0+560  
PLAN VIEW  
SCALE 1:100

NOTES:-

Purpose Of Issue	Rev.	Date	Approved

Client:  
  
GREATER AMMAN MUNICIPALITY

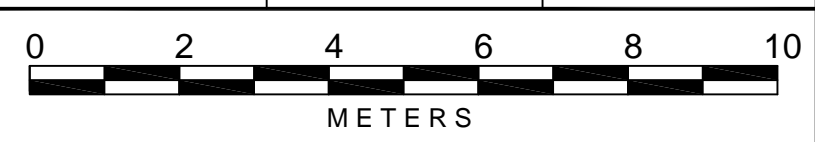
Project:  
STRUCTURAL DESIGN SERVICES FOR  
AMMAN BRT

Package:  
PACKAGE 8 & 9 B  
OMAR MATAR

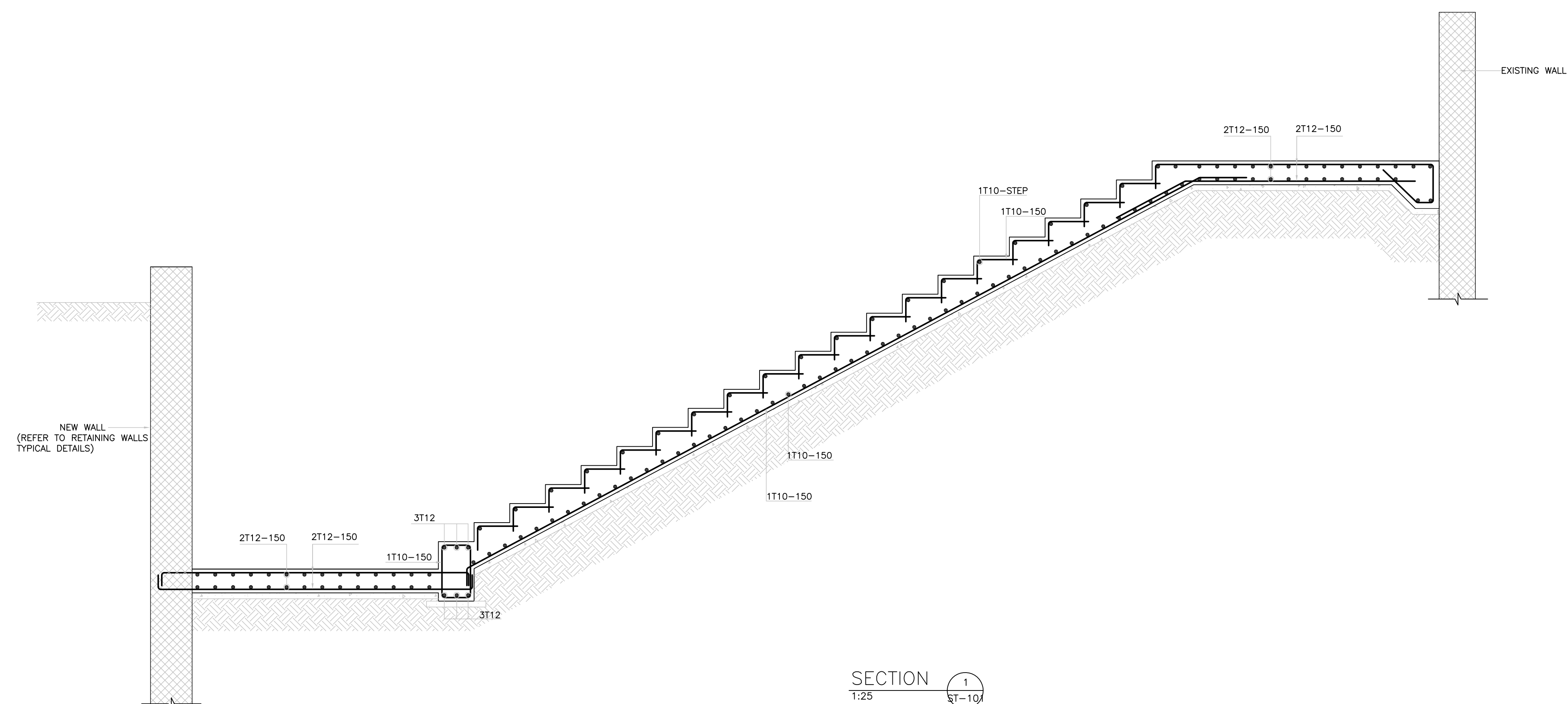
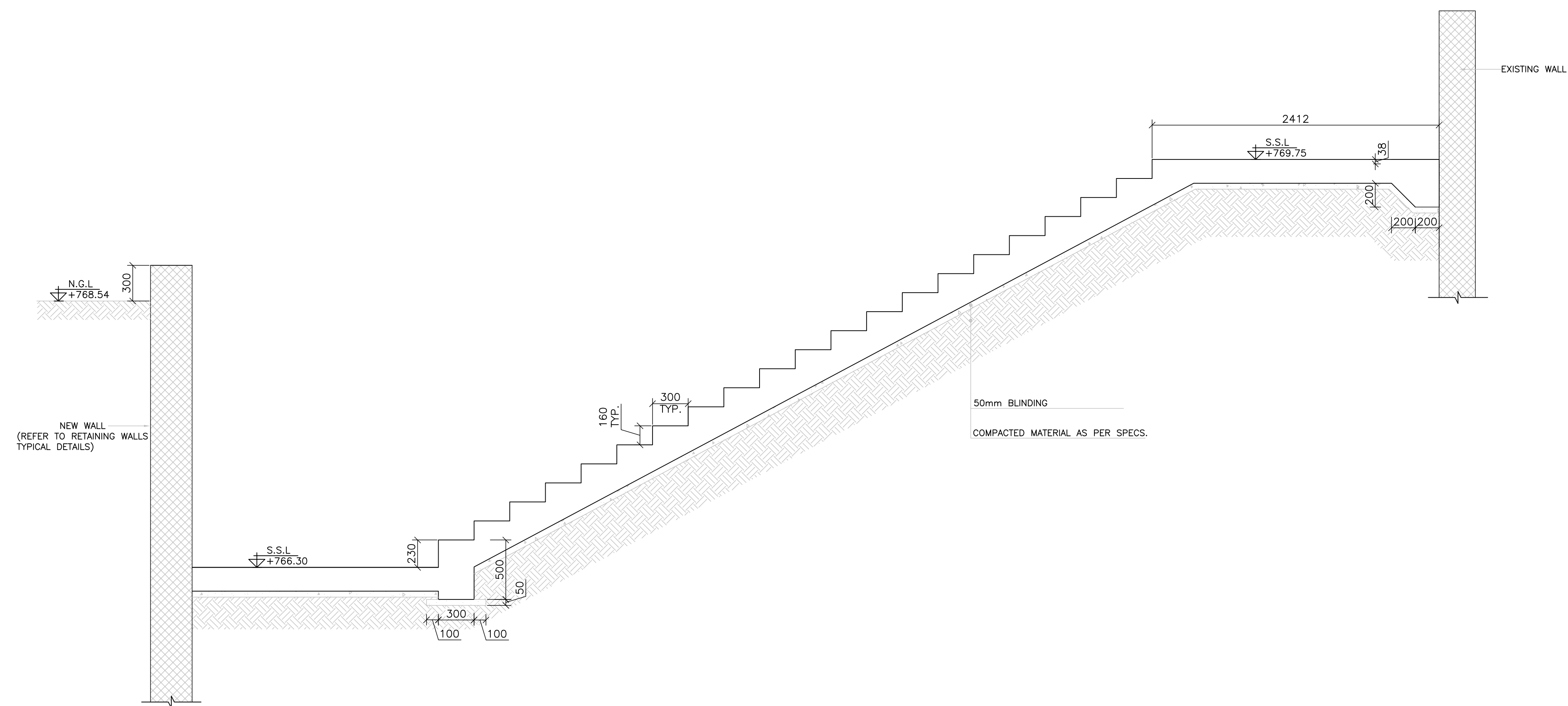
Title:  
STAIR AT STATION 0+560  
PLAN VIEW

Consultant:  
  


Design: R.K.	Drawn by: CAD	Checked: I.KH.
Scale: 1:100	Date: MAR.2018	Approved: W.Z.



Drawing Number: S-101	Rev.: 0
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NOTES:-

Purpose Of Issue	Rev.	Date	Approved

Client:



GREATER AMMAN MUNICIPALITY

Project:

STRUCTURAL DESIGN SERVICES FOR  
AMMAN BRT

Package:

PACKAGE 8 & 9 B  
OMAR MATAR

Title:

STAIR AT STATION 0+560  
STRUCTURAL SECTIONS

Consultant:

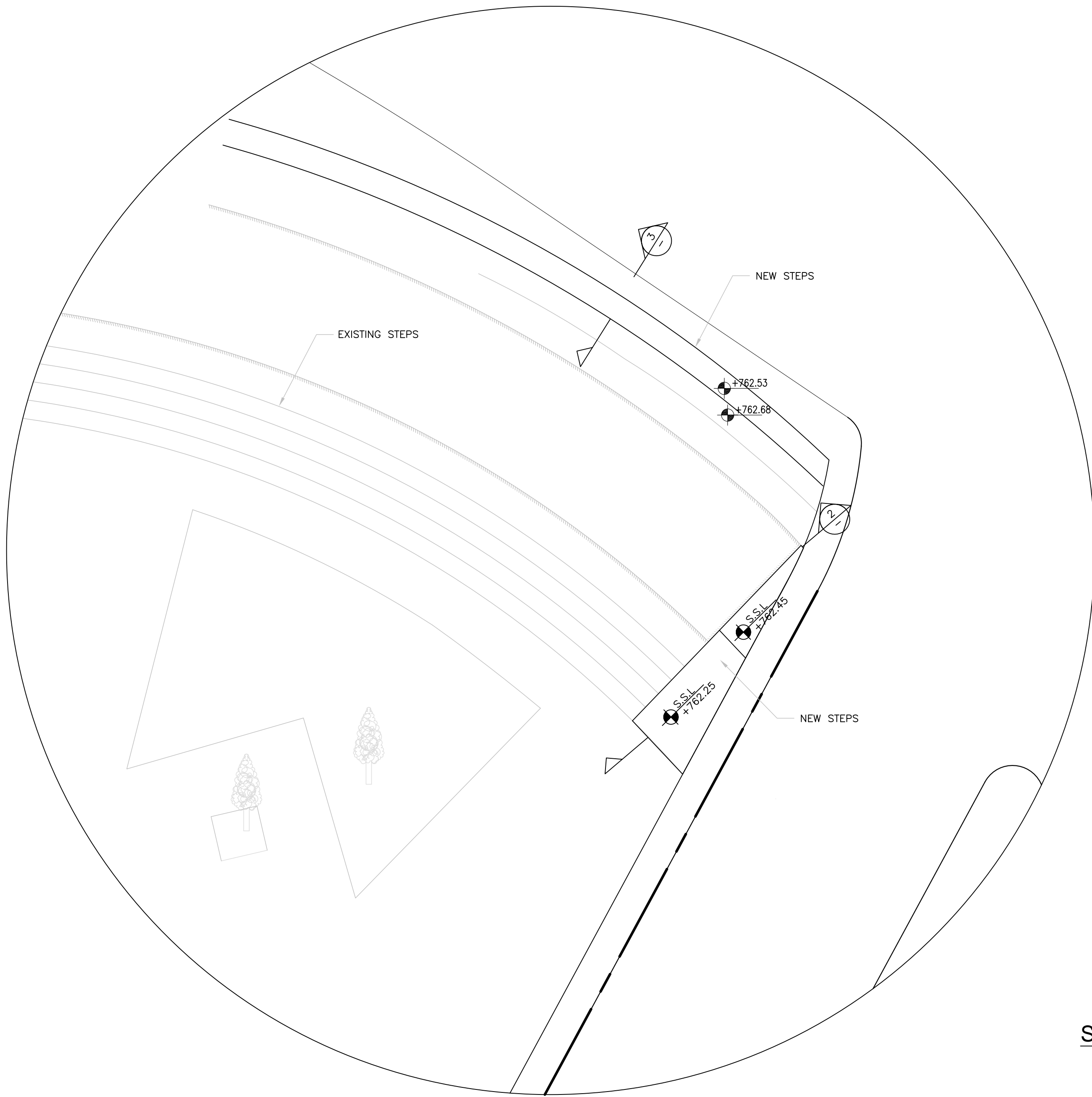


Design: R.K.	Drawn by: CAD	Checked: I.KH.
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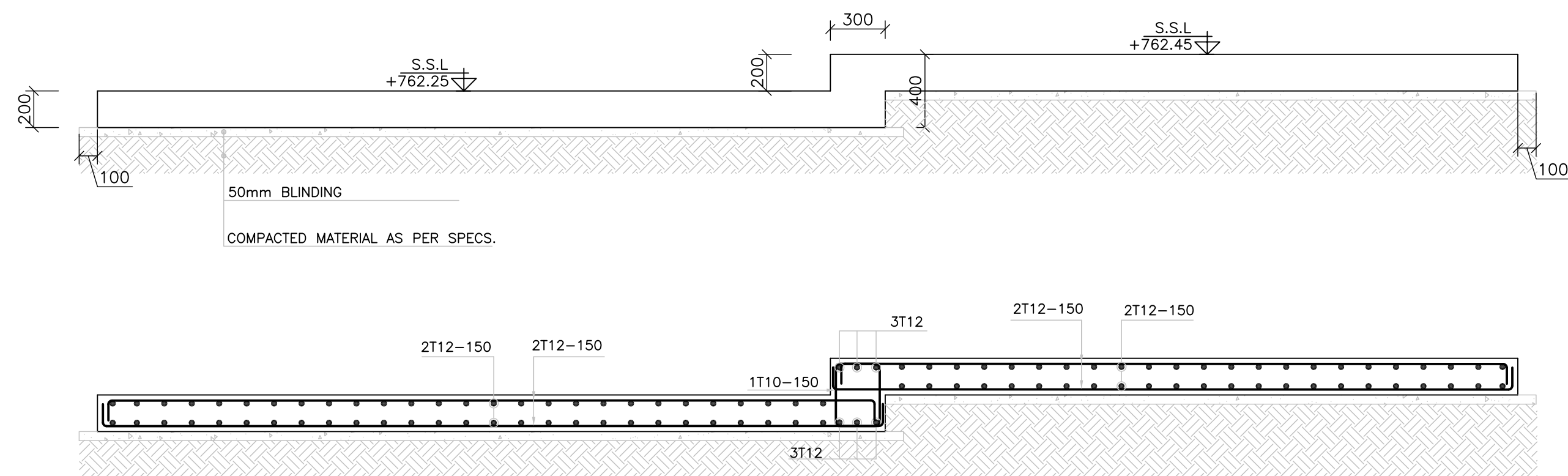
Scale: 1:25	Date: MAR.2018	Approved: W.Z.
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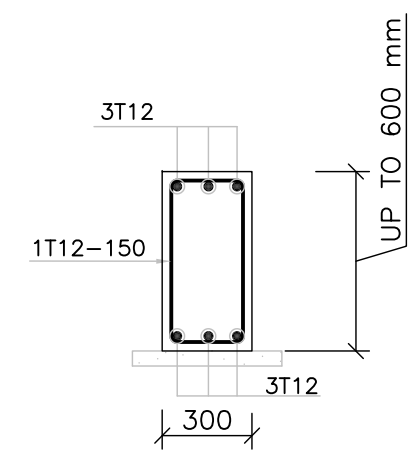
Drawing Number:	Rev.:
S-102	0



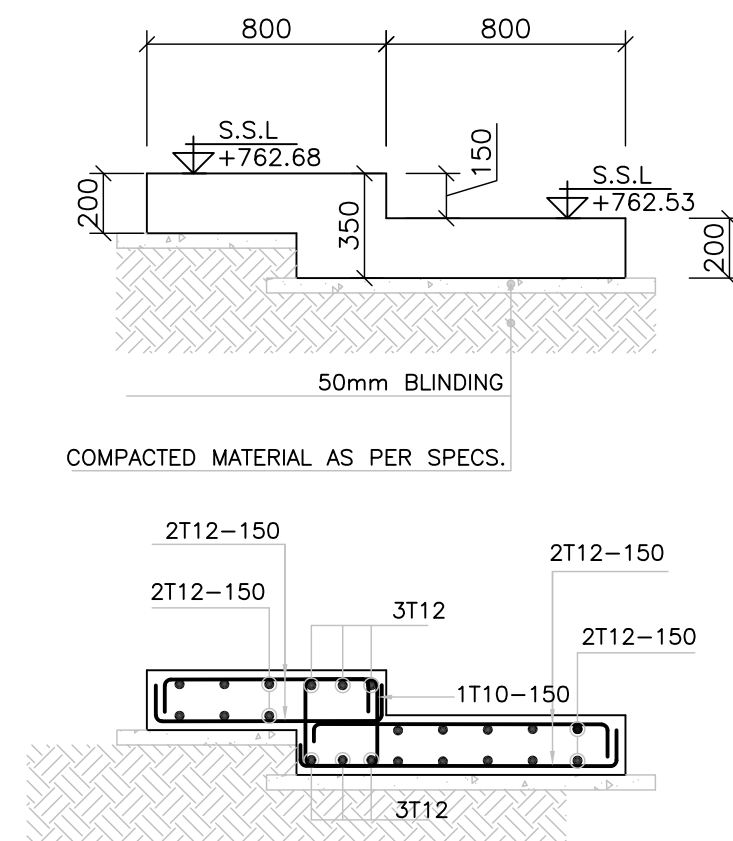
STEPS AT FOUNTAIN AREA PLAN  
SCALE 1:100



SECTION 2  
1:25



TYPICAL SECTION IN EDGE BEAM  
AT STATION 1+270 TO 1+320  
1:25



SECTION 3  
1:25

NOTES:-

Purpose Of Issue	Rev.	Date	Approved
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Client:



GREATER AMMAN MUNICIPALITY

Project:

STRUCTURAL DESIGN SERVICES FOR  
AMMAN BRT

Package:

PACKAGE 8 & 9 B  
OMAR MATAR

Title:

STEPS AT FOUNTAIN AREA  
PLAN & STRUCTURAL SECTIONS

Consultant:



Design:  
R.K.

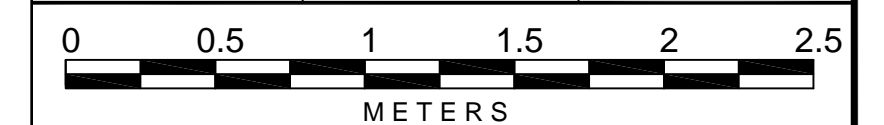
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CAD

Checked:  
I.KH.

Scale:  
AS SHOWN

Date:  
MAR.2018

Approved:  
W.Z.



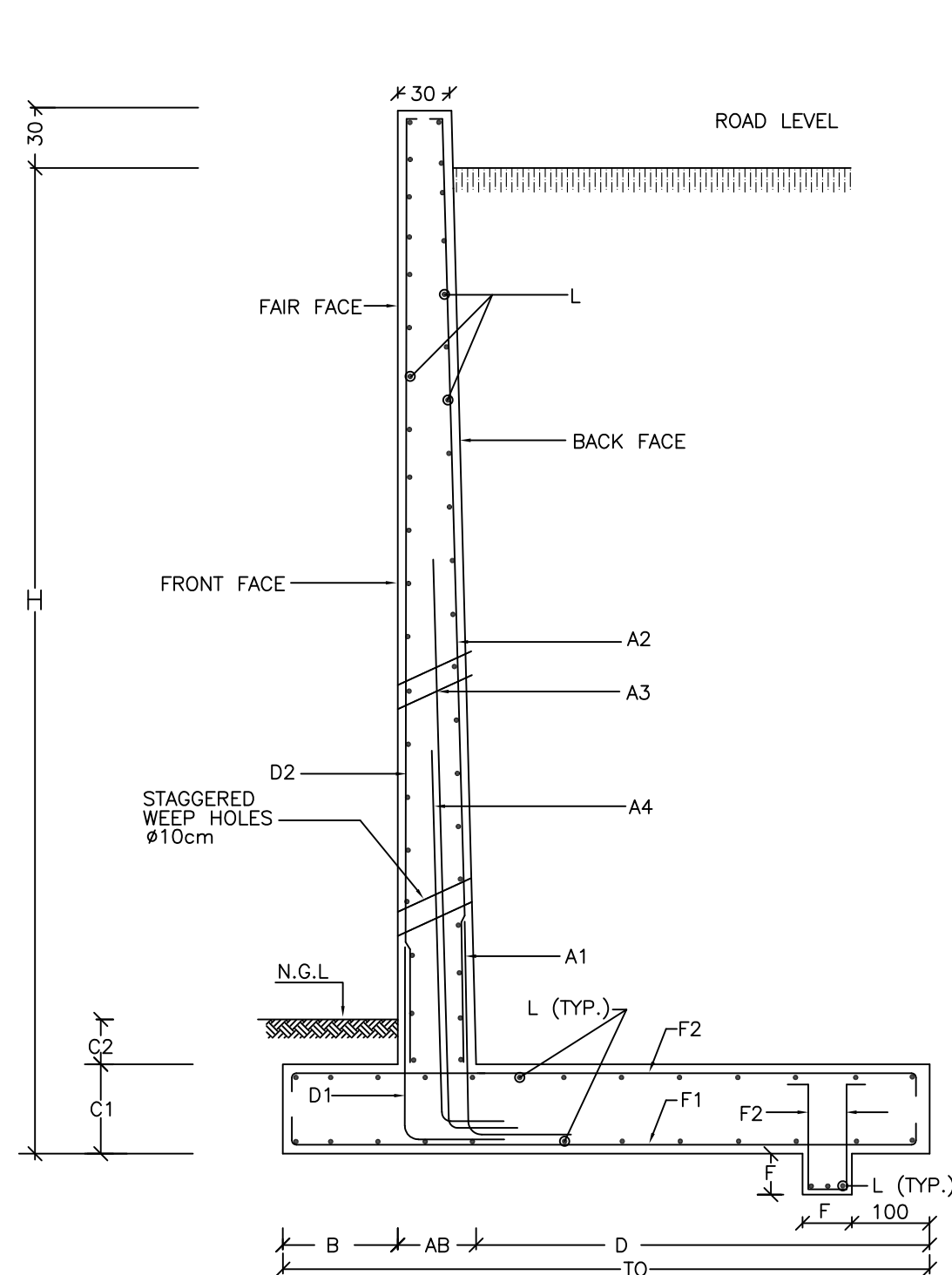
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S-103

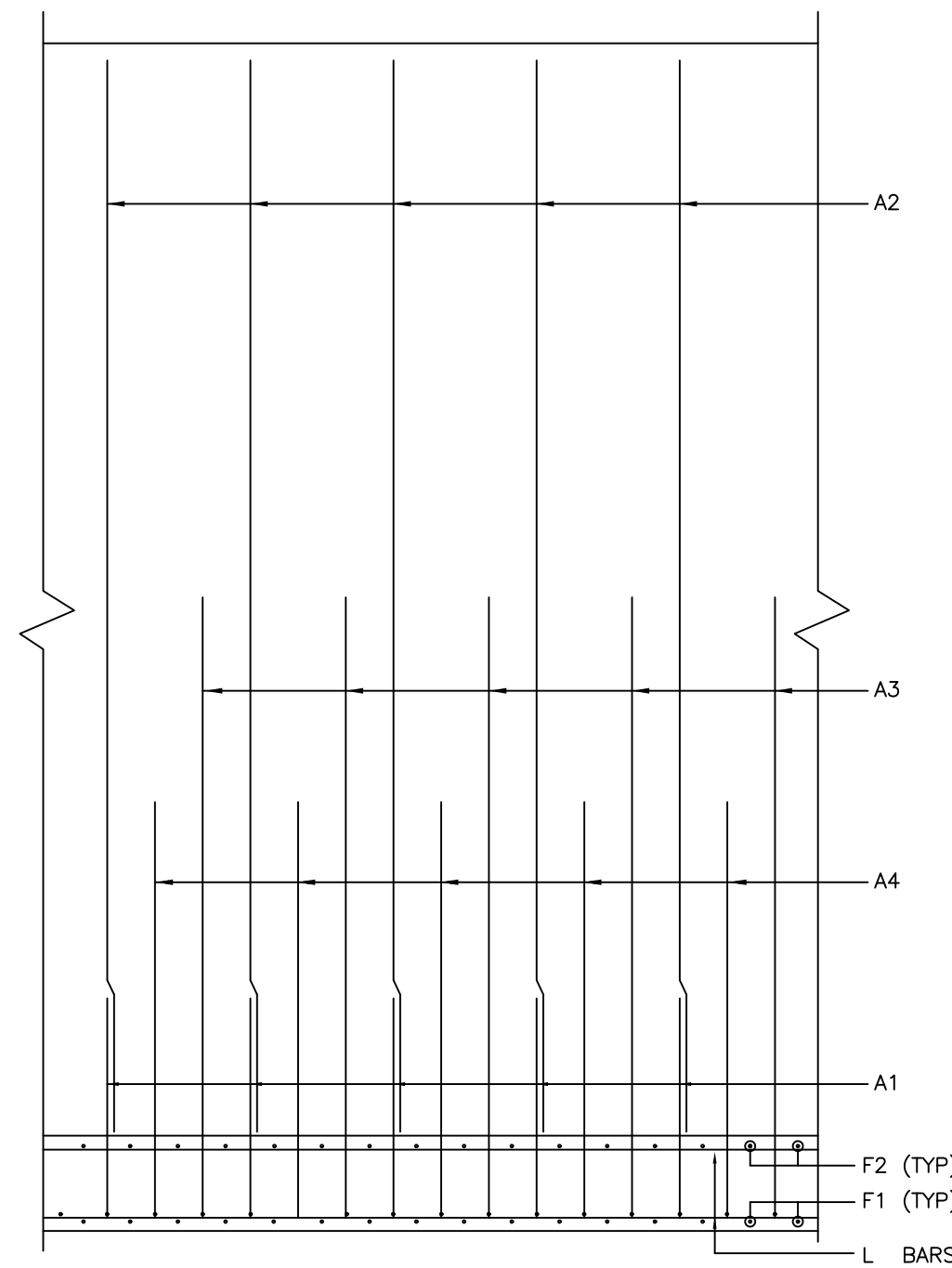
Rev.:

0

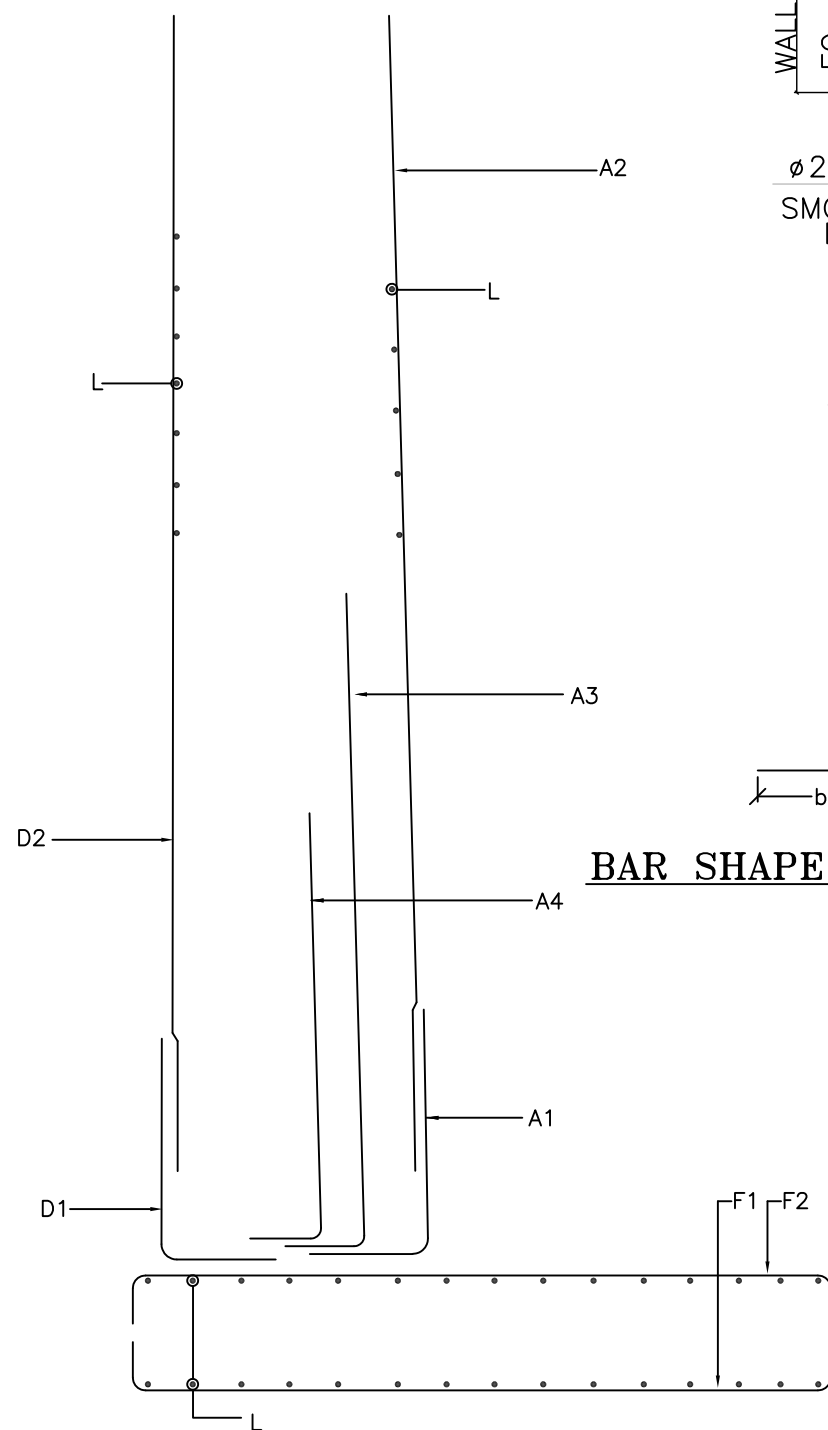




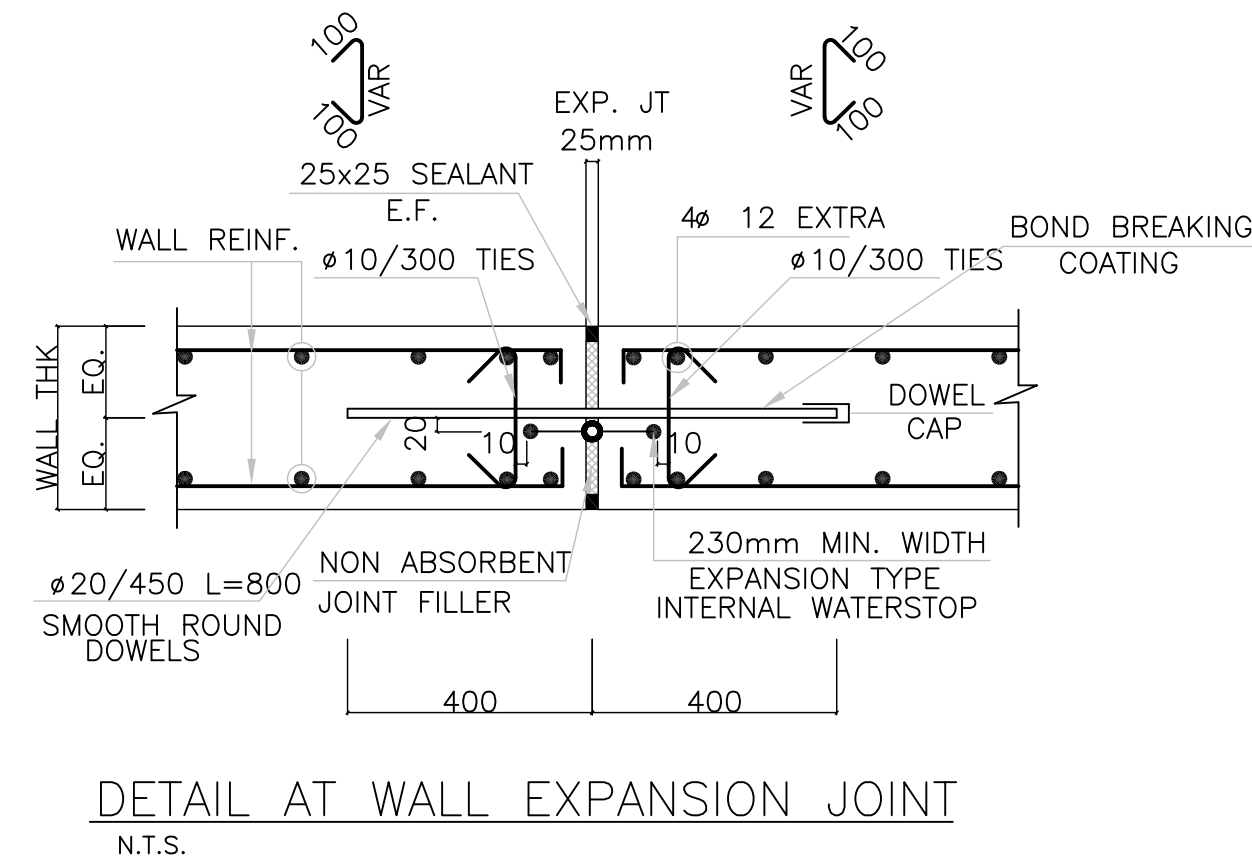
TYP. SECTION



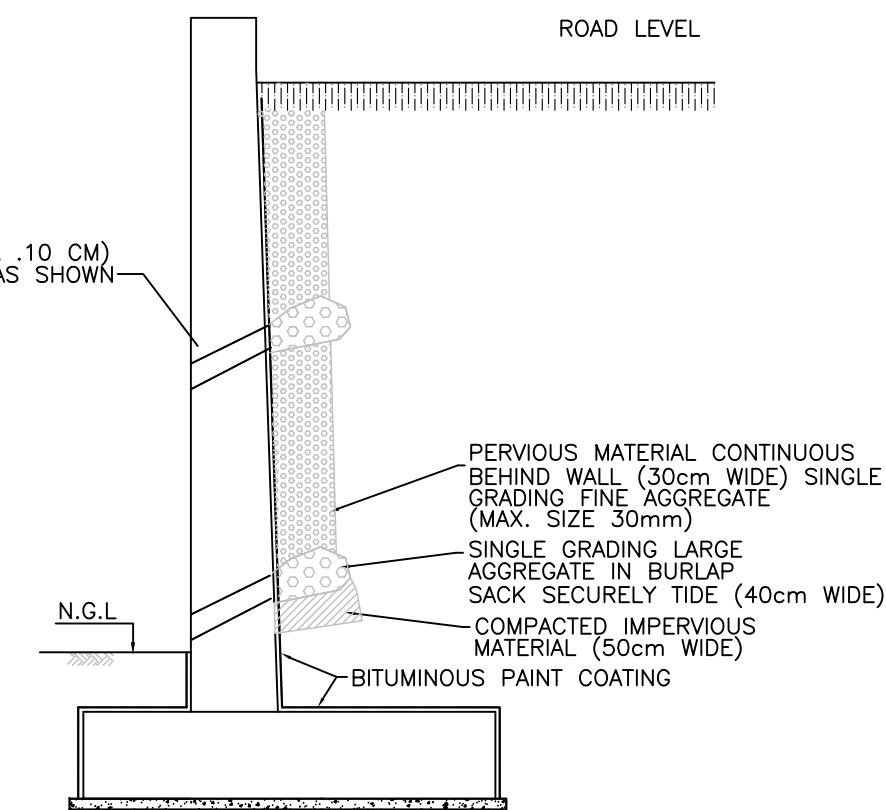
BACK FACE REINFORCEMENT



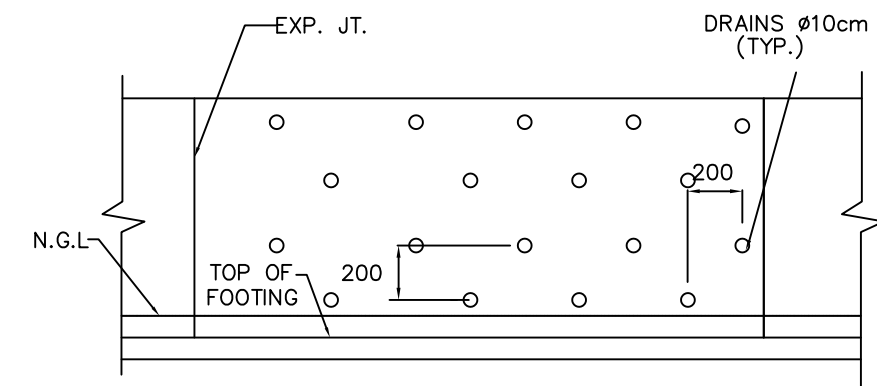
BAR SHAPE FOR (A1,A3,A4,D1)



DETAIL AT WALL EXPANSION JOINT  
N.T.S.



TYPICAL SECTION

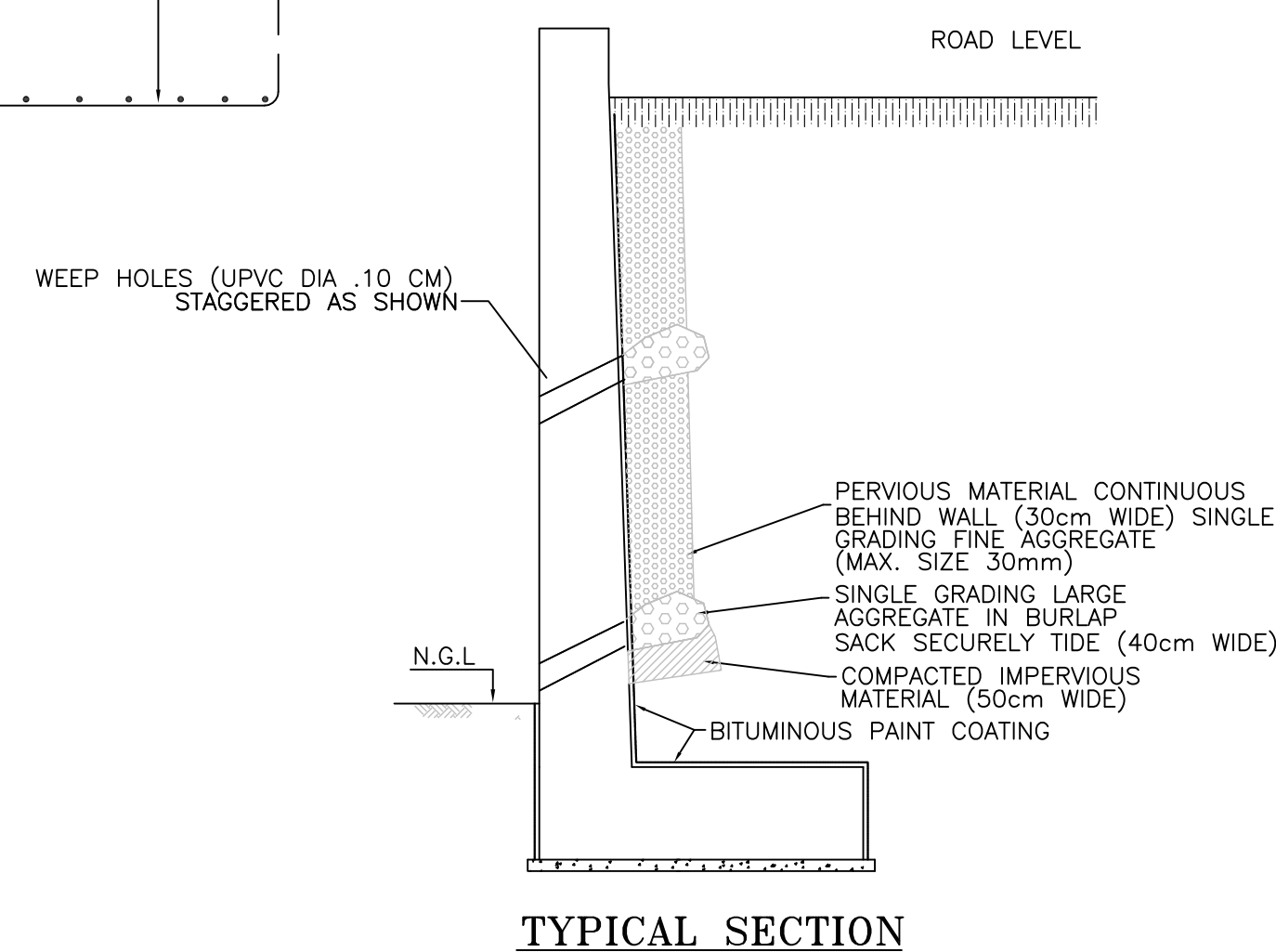
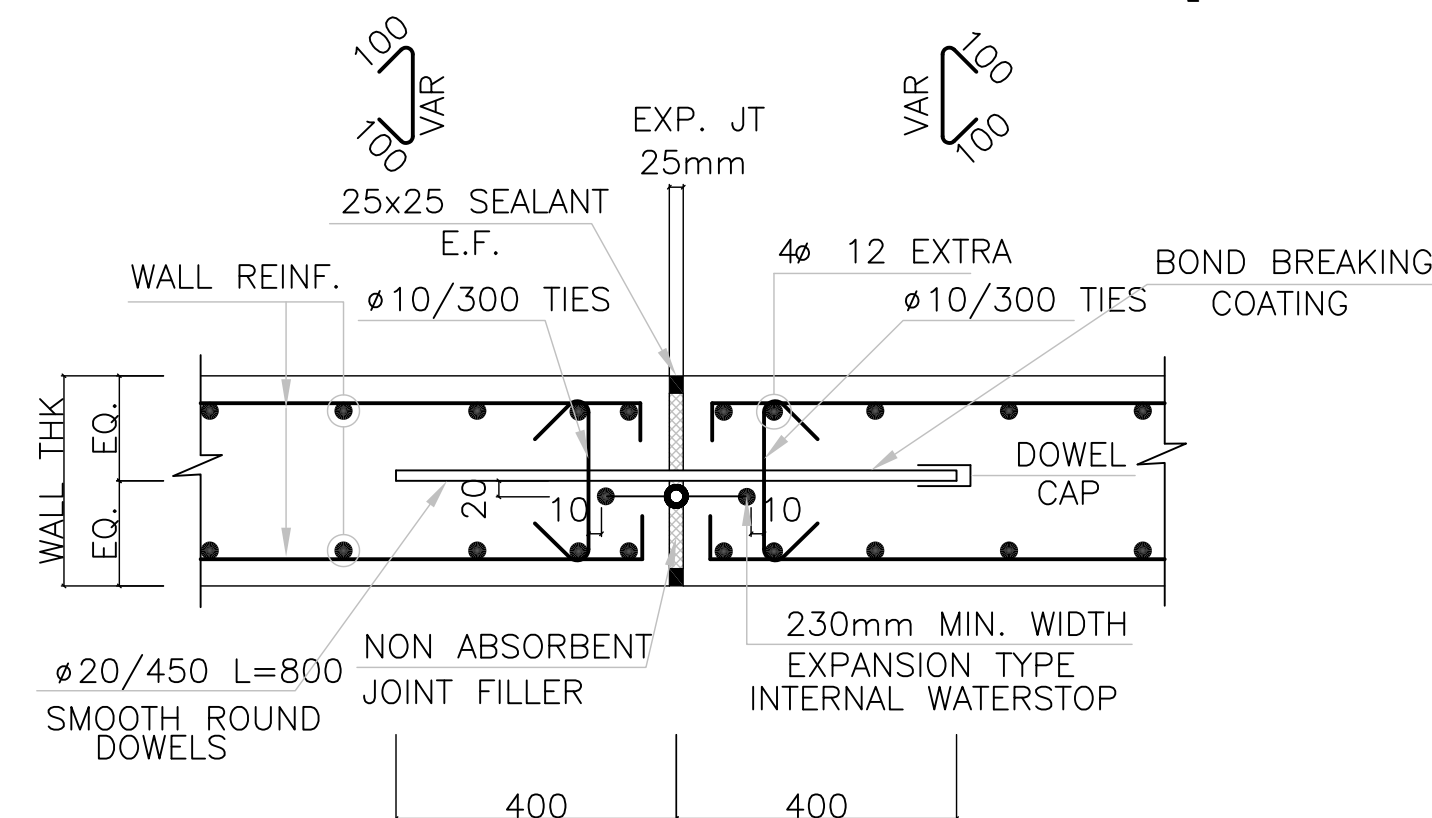
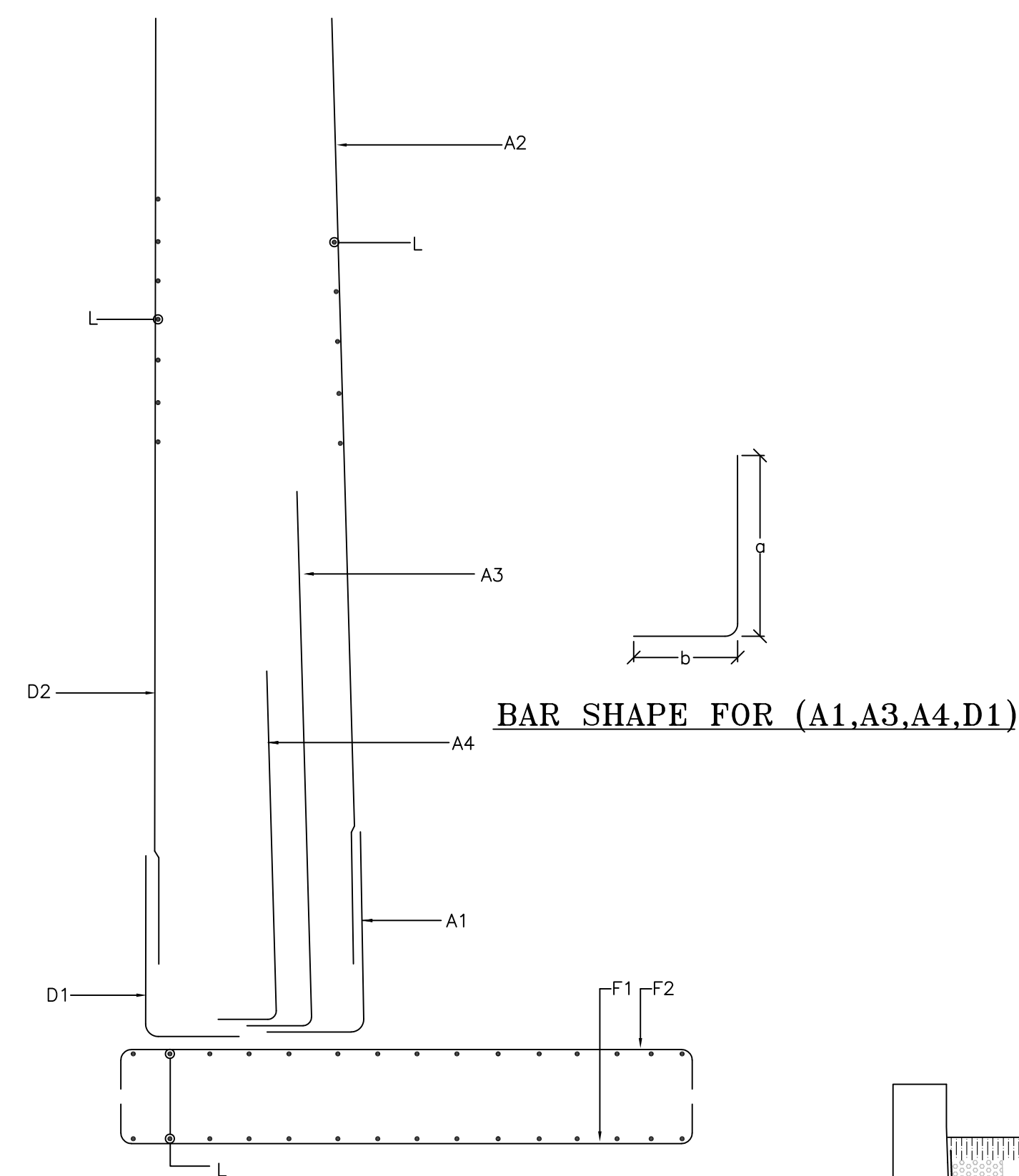
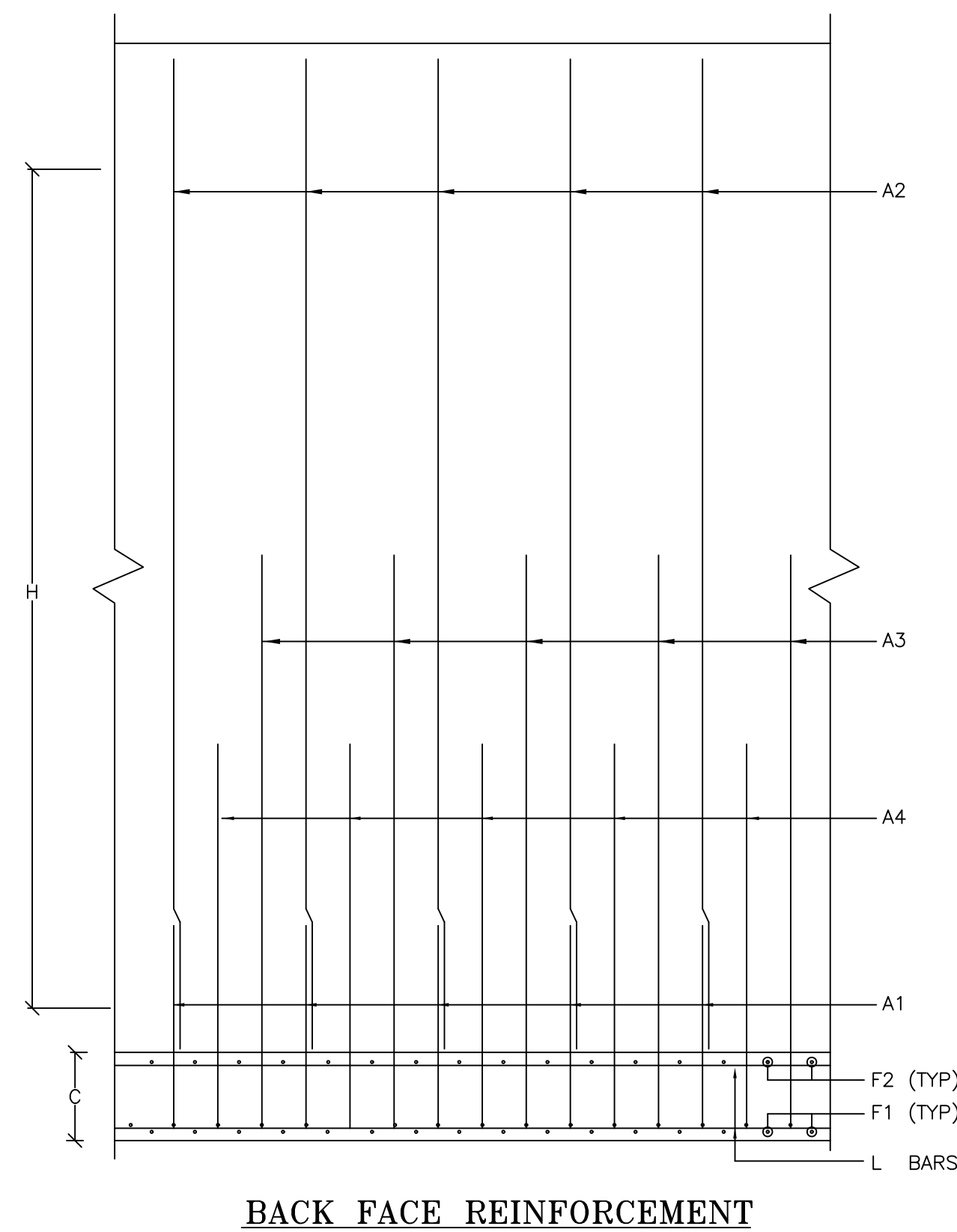
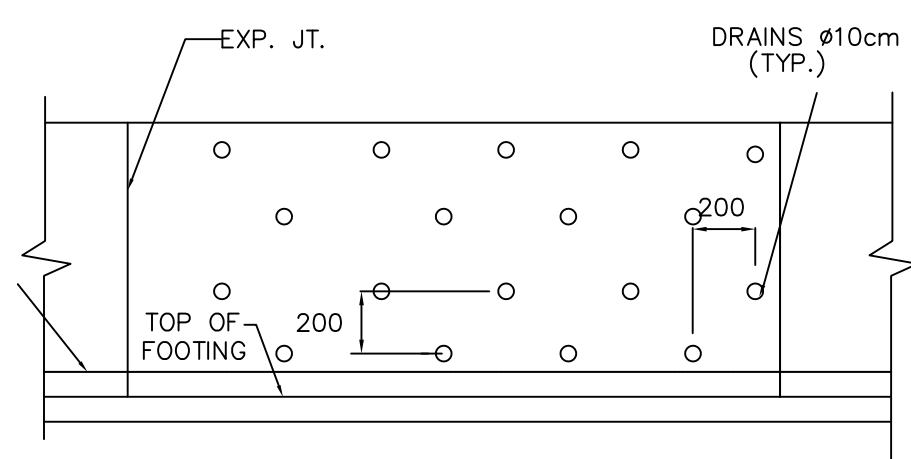


ELEVATION SHOWING WEEP HOLES

DIMENSIONS								REINFORCEMENT(B.C=2.0)																																								QUANTITIES PER m RUN		
H	C1	AB	D	B	TO	C2	F	BAR A1					BAR A2					BAR A3					BAR A4					BAR D1					BAR D2					BAR F1					BAR F2					BAR L	CON.	STEEL
cm	cm	cm	cm	cm	cm	cm	cm	SIZE #	SP cm	a cm	b cm	LENG.	SIZE #	SP cm	a cm	b cm	LENG.	SIZE #	SP cm	a cm	b cm	LENG.	SIZE #	SP cm	a cm	b cm	LENG.	SIZE #	SP cm	a cm	b cm	LENG.	SIZE #	SP cm	a cm	b cm	LENG.	SIZE #	SP cm	a cm	b cm	LENG.	SIZE #	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	30	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	240	-	285	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	335	14	15	335	14	20	3.1	235							
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	230	14	15	145	40	185	14	15	490	14	15	350	16	15	350	14	20	3.7	300							
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	240	14	15	150	40	190	14	15	535	14	15	390	16	15	390	14	20	4.3	340							
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	260	14	15	155	40	195	14	15	580	14	15	410	16	15	410	14	20	5.0	402							
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	280	16	15	170	40	210	16	15	625	16	15	440	18	15	440	16	20	5.7	471							
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	300	16	15	175	40	215	16	15	670	16	15	460	18	15	460	16	20	6.6	508							
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	310	16	15	185	40	225	16	15	710	16	15	490	18	15	490	16	20	7.7	555							
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	330	16	15	205	40	245	16	15	740	16	15	530	18	15	530	16	20	9.9	588							
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	350	18	15	215	45	260	18	15	780	18	15	560	20	15	560	18	20	11.5	780							
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	380	18	15	245	45	290	18	15	810	18	15	630	20	15	630	18	20	14.4	860							

DIMENSIONS								REINFORCEMENT(B.C=2.5)																																QUANTITIES PER m RUN						
H	C1	AB	D	B	TO	C2	F	BAR A1				BAR A2				BAR A3				BAR A4				BAR D1				BAR D2				BAR F1				BAR F2				BAR L	CON.	STEEL				
cm	cm	cm	cm	cm	cm	cm	cm	SIZE #	SP cm	a cm	b cm	LENG.	SIZE #	SP cm	a cm	b cm	LENG.	SIZE #	SP cm	a cm	b cm	LENG.	SIZE #	SP cm	a cm	b cm	LENG.	SIZE #	SP cm	a cm	b cm	LENG.	SIZE #	SP cm	a cm	b cm	LENG.	SIZE #	SP cm	a cm	b cm	LENG.	SIZE #	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			
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500	50	50	180	50	280	100	50	16	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	330	16	15	330	14	20	3.6	292			
550	55	55	180	80	315	100	50	16	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	365	16	15	365	14	20	4.3	333			
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850	110	110	220	160	490	100	70	20	45	220	50	270	20	45	780	20	45	590	50	650	20	45	290	50	350	18	15	215	45	260	18	15	780	18	15	540	20	15	540	18	20	11.3	765			
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DIMENSIONS								REINFORCEMENT(B.C=3.0)																																				QUANTITIES PER M RUN		
H	C1	AB	D	B	TO	C2	F'	BAR A1					BAR A2			BAR A3					BAR A4					BAR D1					BAR D2			BAR F1			BAR F2			BAR L		CON.	STEEL			
cm	cm	cm	cm	cm	cm	cm	cm	SIZE mm	SP cm	o cm	b cm	LENG.	SIZE mm	SP cm	o cm	b cm	LENG.	SIZE mm	SP cm	o cm	b cm	LENG.	SIZE mm	SP cm	o cm	b cm	LENG.	SIZE mm	SP cm	o cm	b cm	LENG.	SIZE mm	SP cm	o cm	b cm	LENG.	SIZE mm	SP cm	o cm	b cm	LENG.	SIZE 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	
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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	811			

NOTES:-


Purpose Of Issue	Rev.	Date	Approved
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Client:



GREATER AMMAN MUNICIPALITY

Project:

STRUCTURAL DESIGN SERVICES FOR  
AMMAN BRT

Package:

PACKAGE 8 & 9 B  
OMAR MATAR

Title:

## RETAINING WALLS STRUCTURAL DETAILS ( sheet 2 of 2 )

Consultant:



Design: R.K.	Drawn by: CAD	Checked: I.KH.
Scale: N.T.S	Date: MAR.2018	Approved: W.Z.

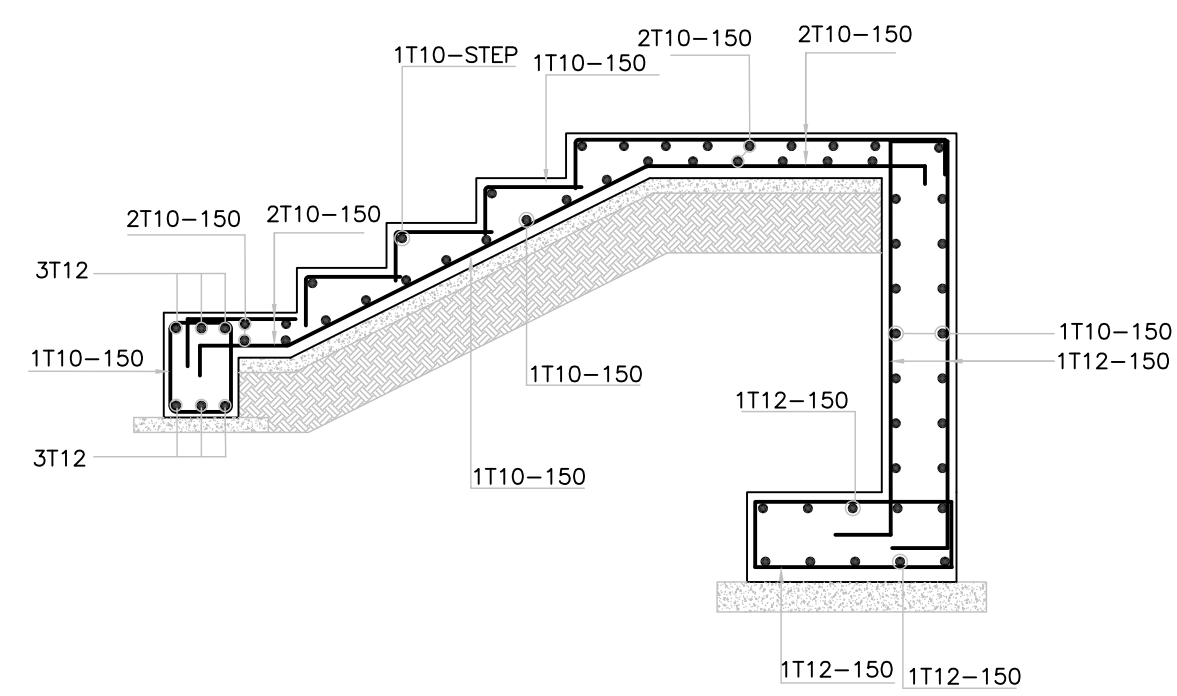
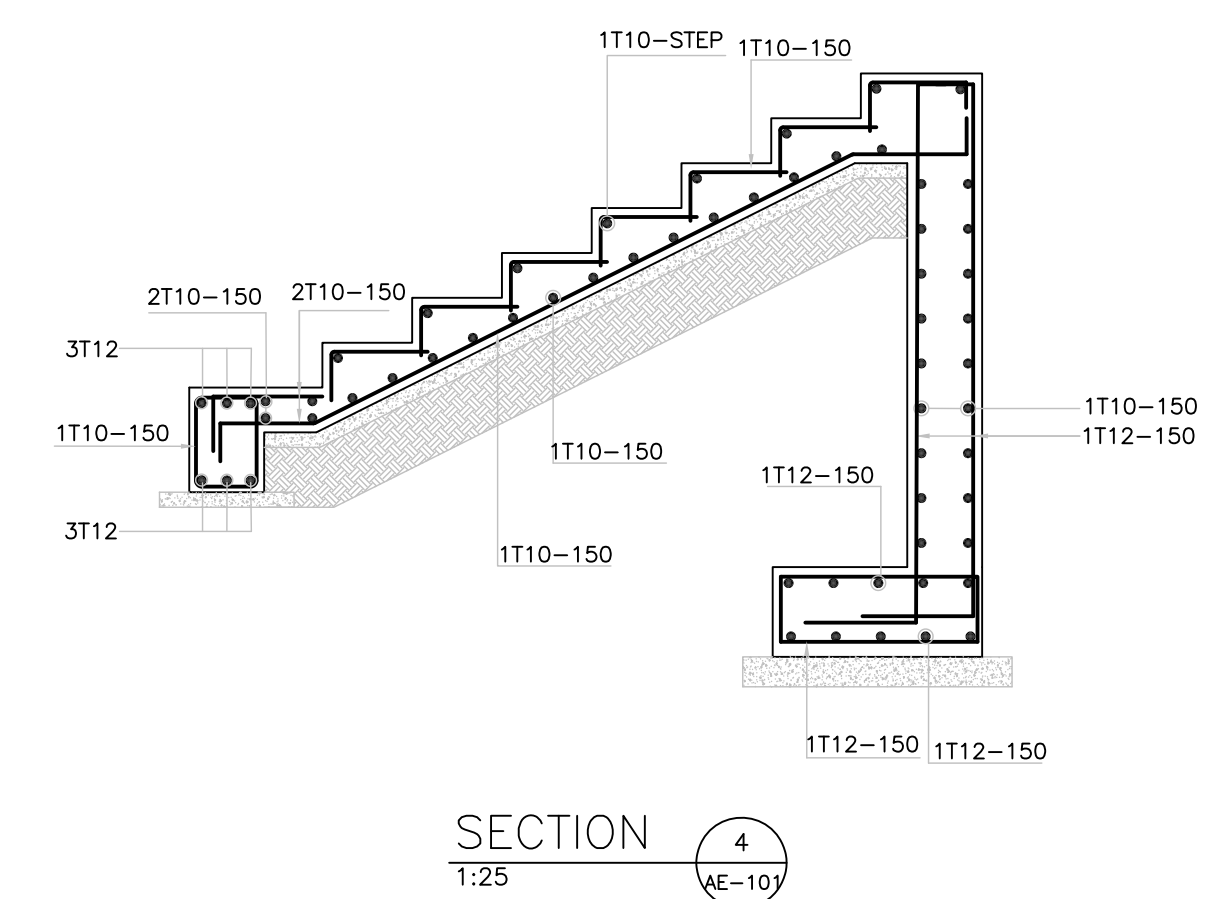
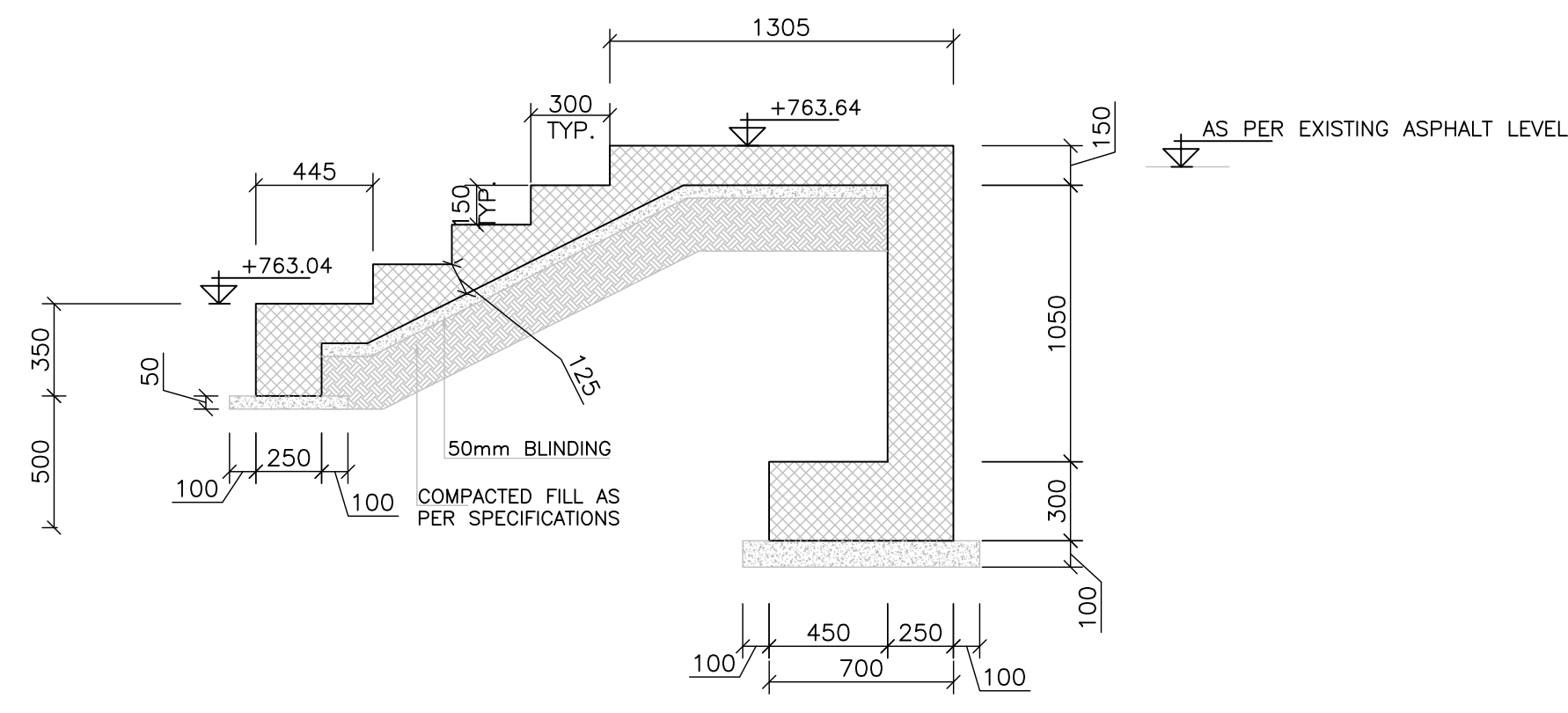
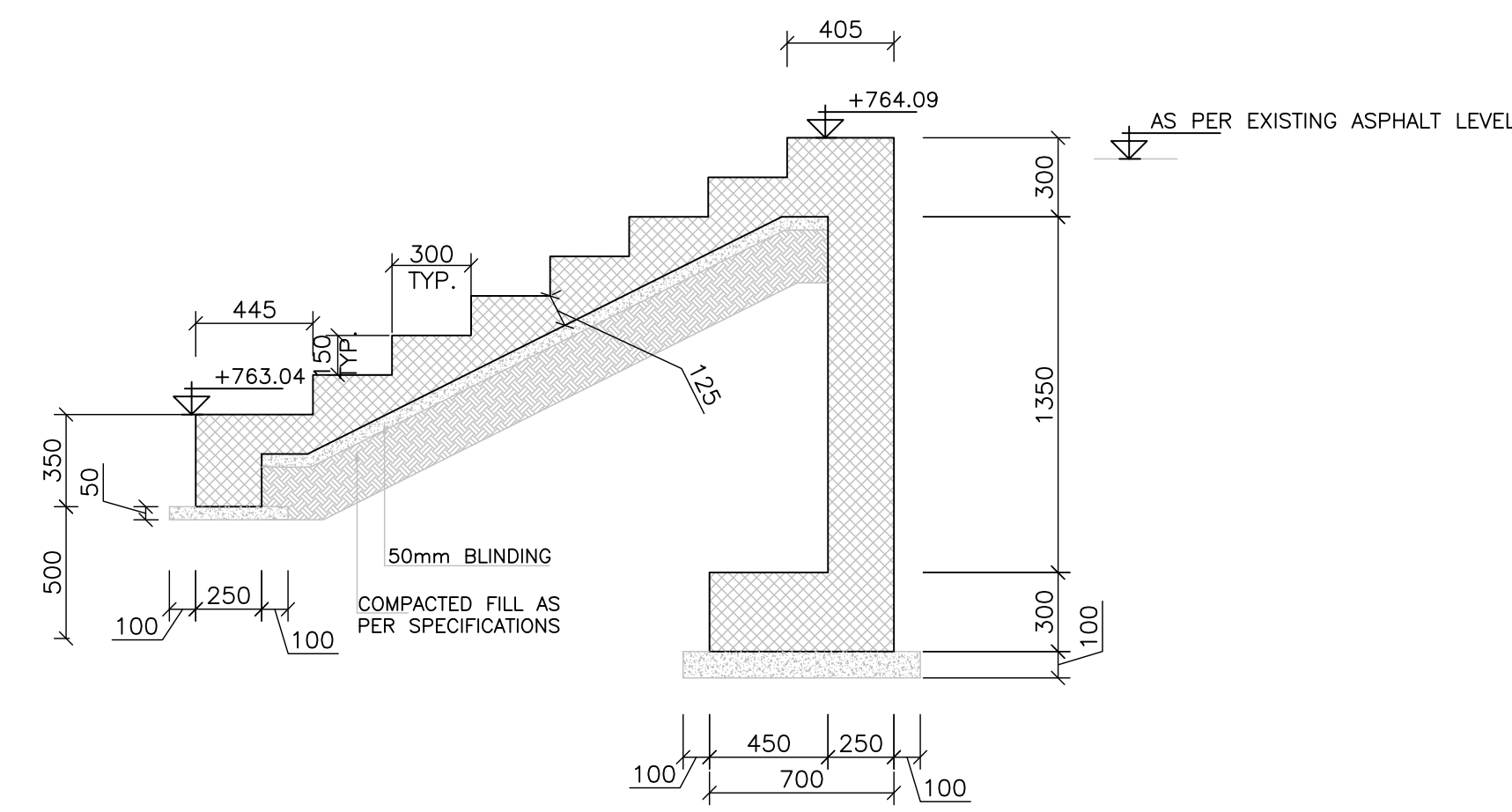
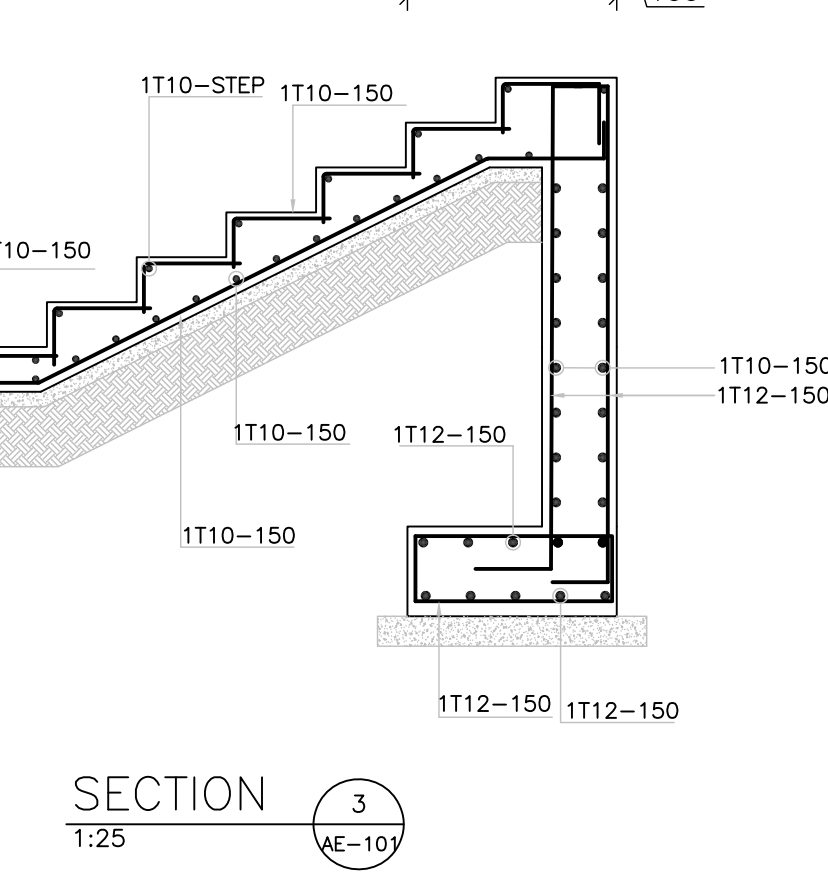
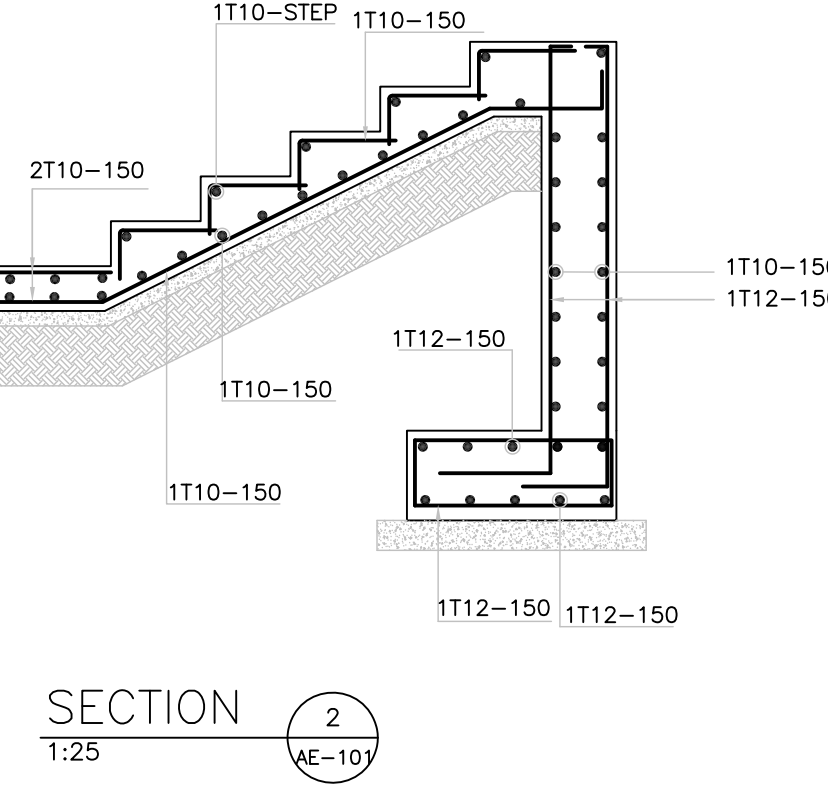
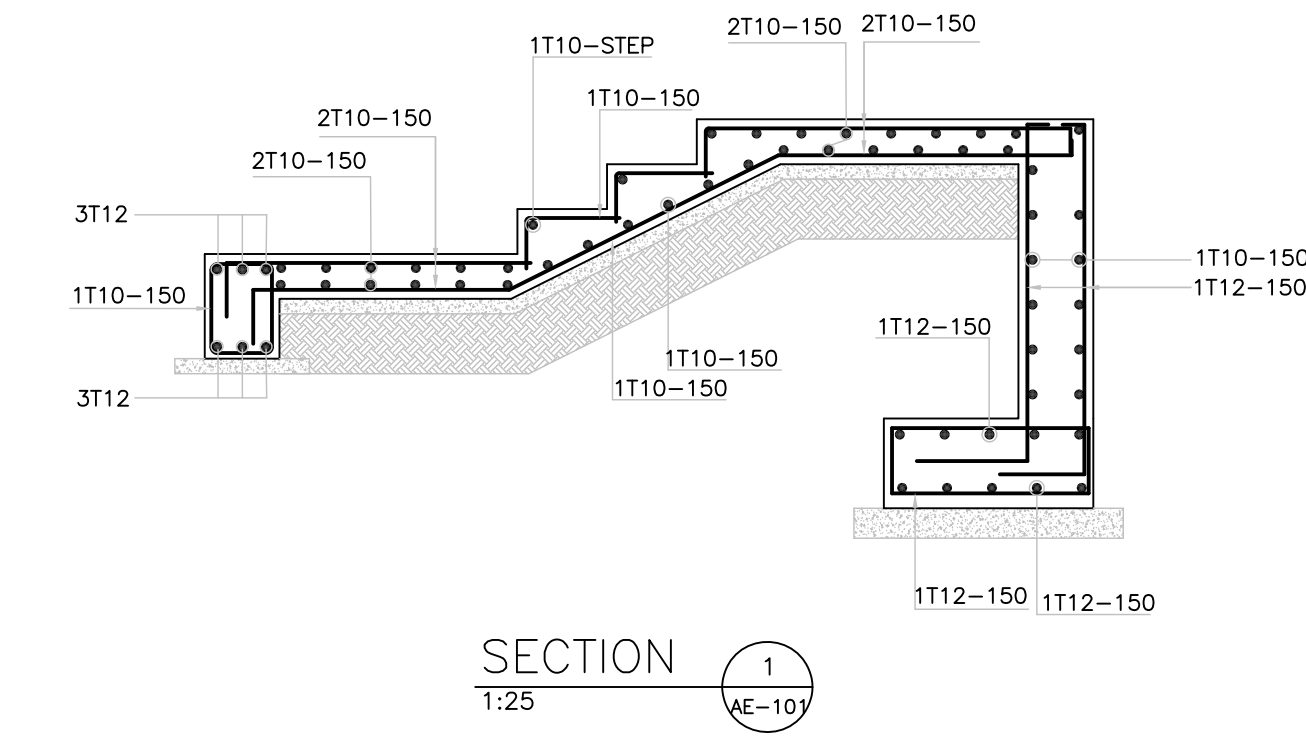
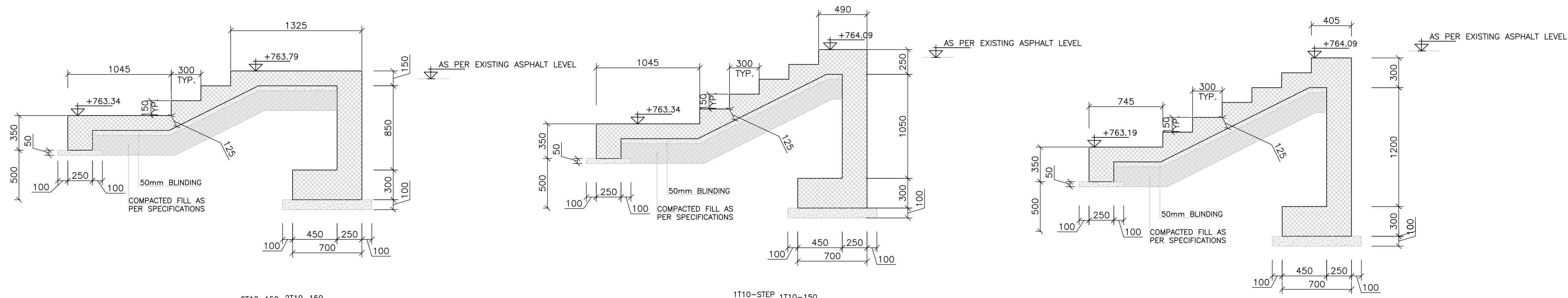


Drawing Number:

S-105

Rev.:





NOTES:-

Purpose Of Issue Rev. Date Approved



Project: STRUCTURAL DESIGN SERVICES FOR AMMAN BRT

Package: PACKAGE 8 & 9 B OMAR MATAR

Title: STAIRS STRUCTURAL DETAILS (SHEET 1 OF 2)

(From St. 0+034.57 To St. 0+105.46)

Consultant: steer daves gleave

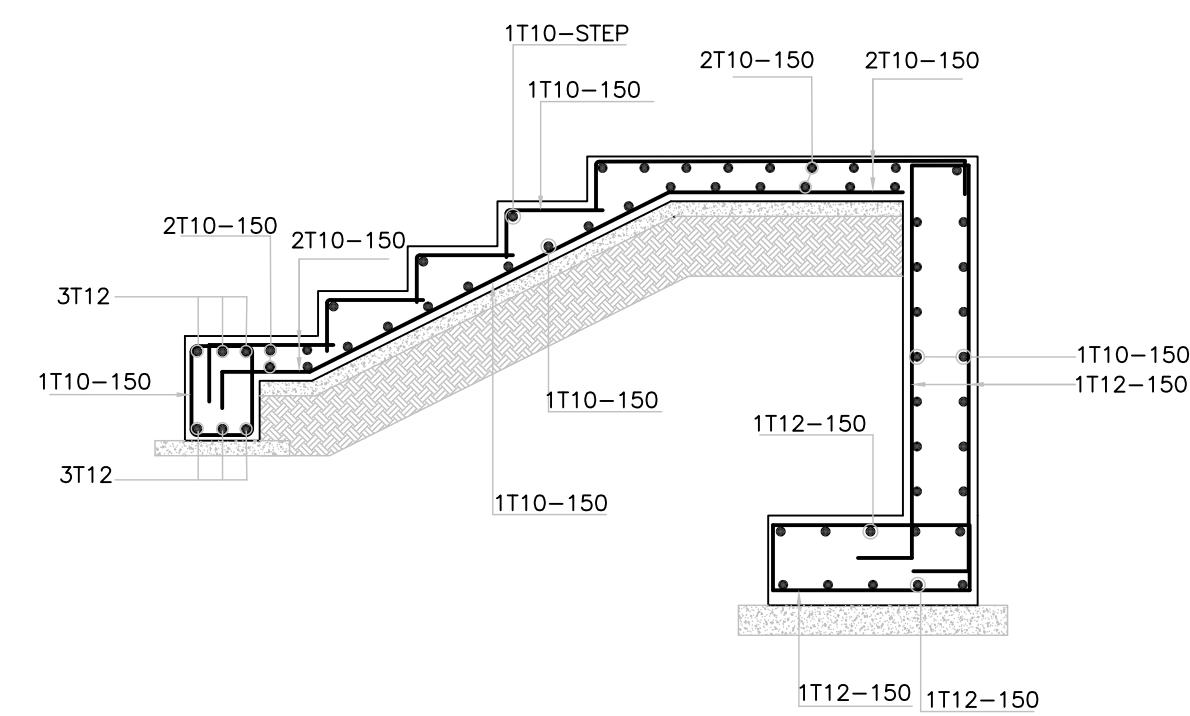
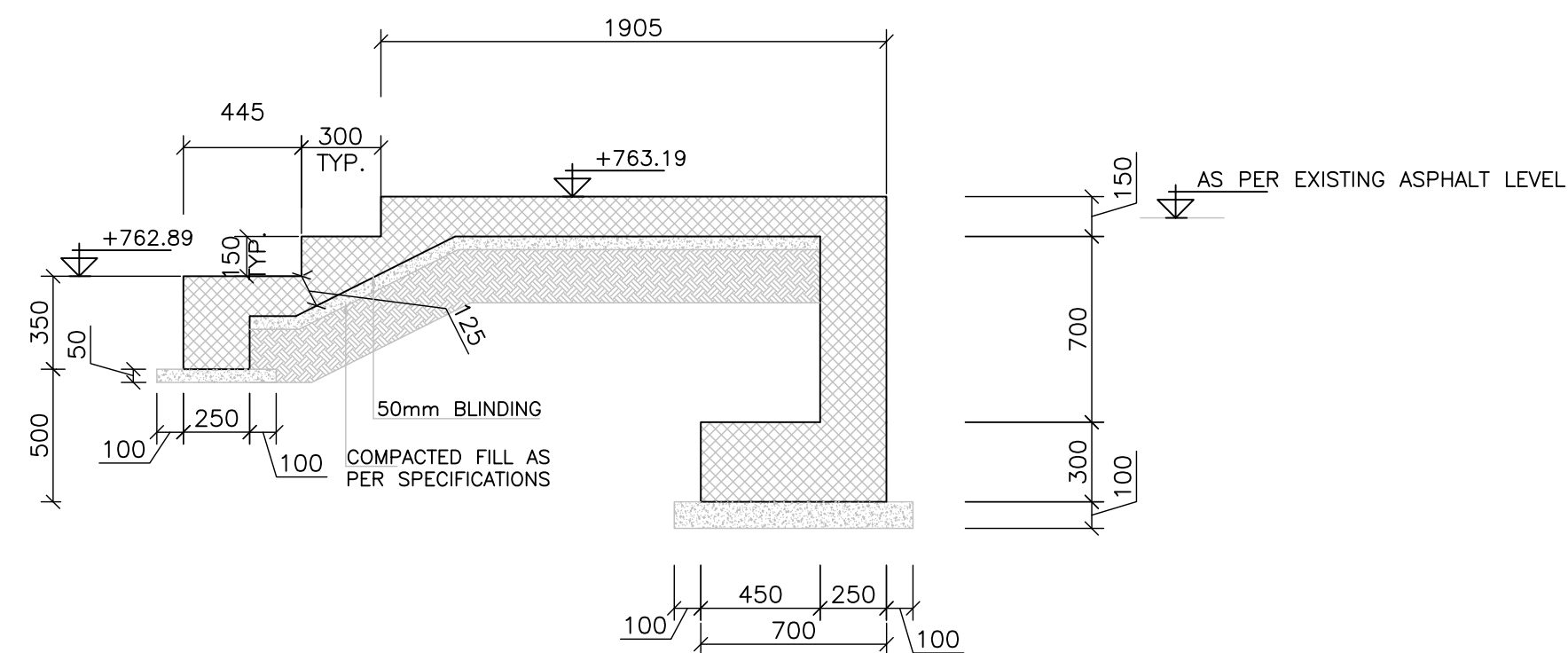
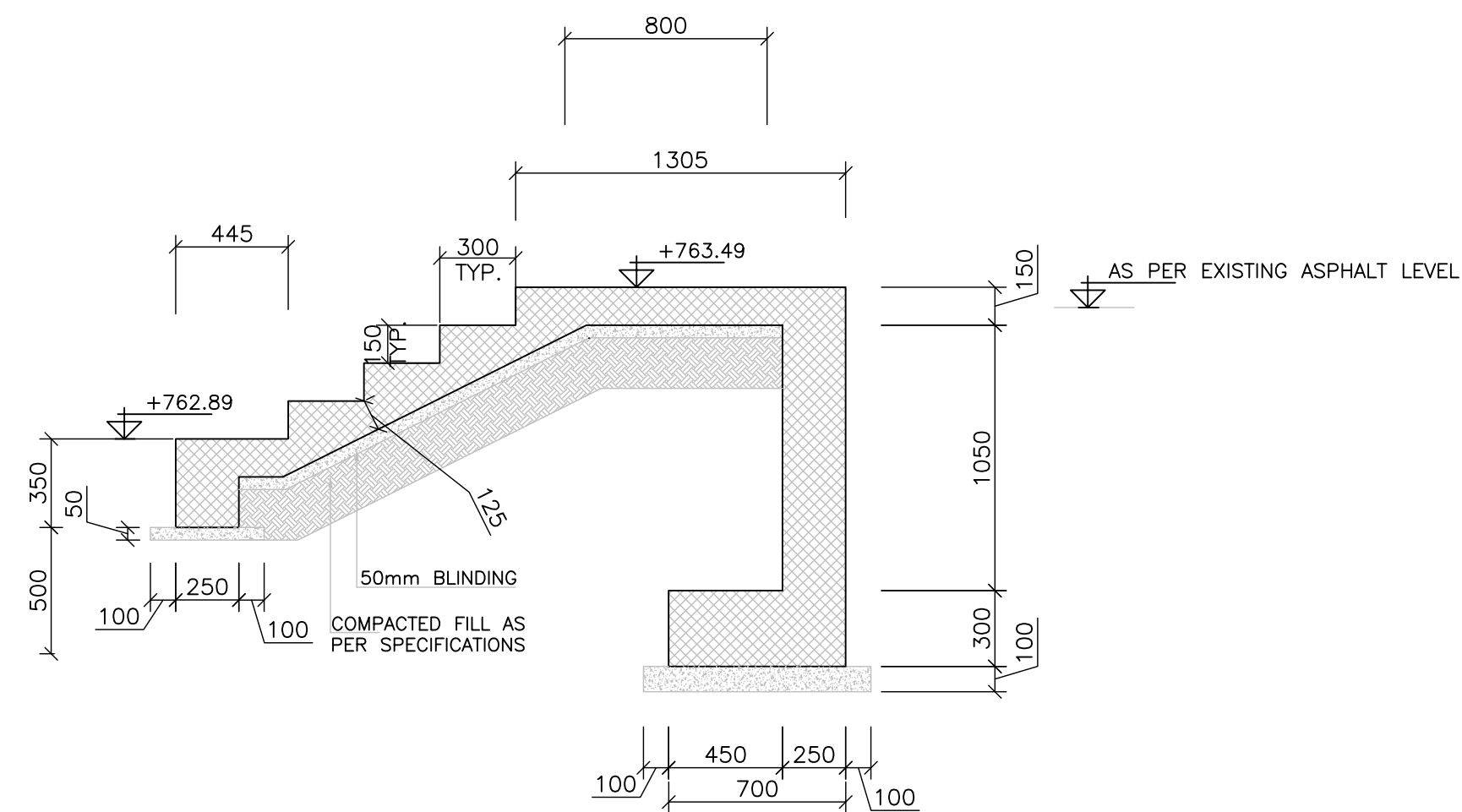
engicon

Design: R.K. Drawn by: CAD Checked: I.KH.

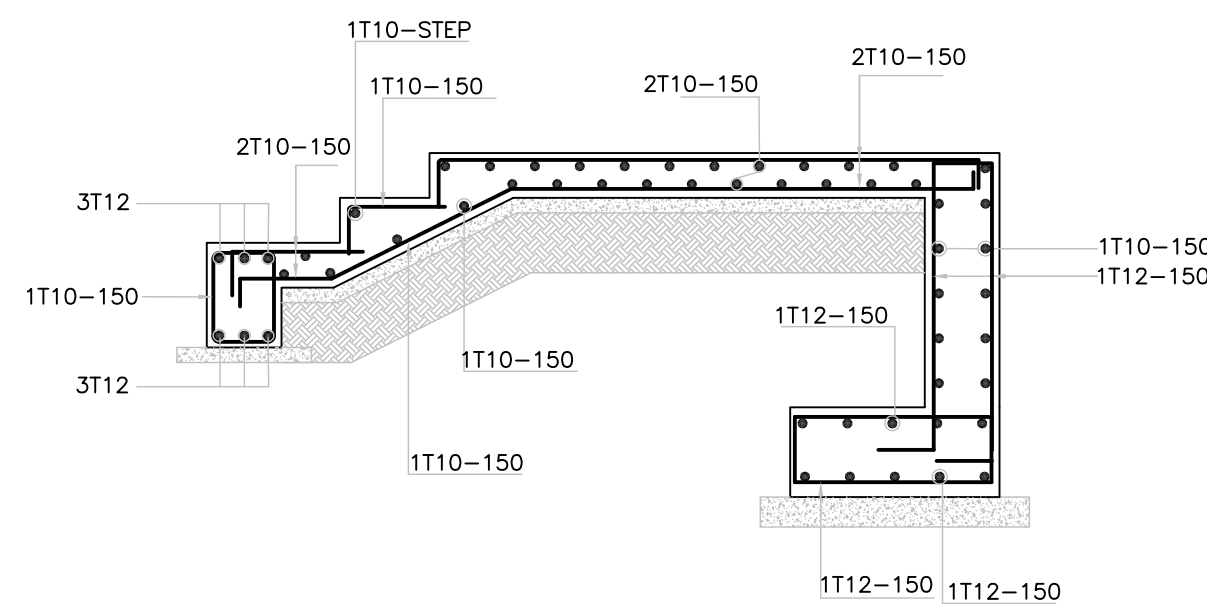
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Drawing Number: S-106 Rev.: 0





SECTION 6  
1:25  
AE-107



SECTION 7  
1:25  
AE-107

NOTES:-

Purpose Of Issue	Rev.	Date	Approved

Client:



GREATER AMMAN MUNICIPALITY

Project:

STRUCTURAL DESIGN SERVICES FOR  
AMMAN BRT

Package:

PACKAGE 8 & 9 B  
OMAR MATAR

Title:

STAIRS STRUCTURAL DETAILS  
(SHEET 2 OF 2)  
(From St. 0+034.57 To St. 0+105.46)

Consultant:



Design:	R.K.	Drawn by:	CAD	Checked:	I.KH.
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Scale:	1:25	Date:	MAR.2018	Approved:	W.Z.
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Drawing Number:	Rev.:
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S-107

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