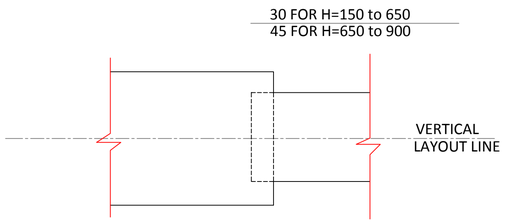
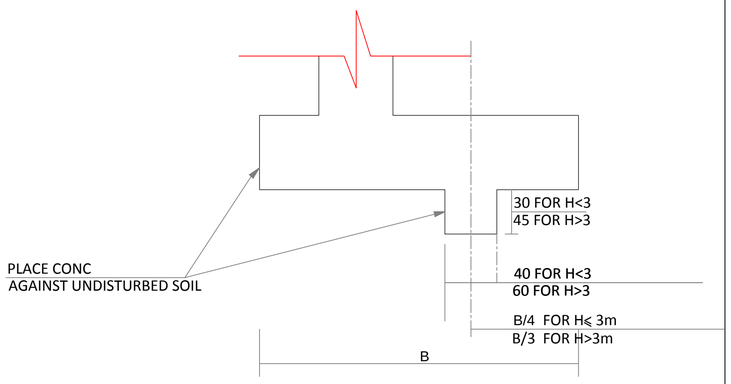
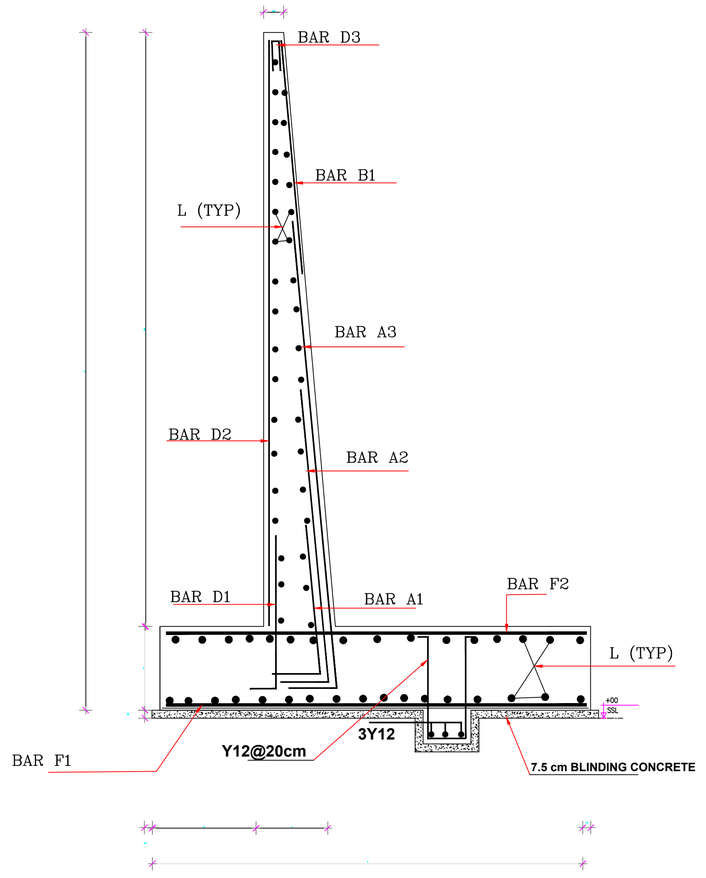


FOOTING STEP PLAN



SLIDING KEY

TO BE USED WHEN COEF
OF FRICTION < 0.45 SUCH
AS MARL OF CLAY SOIL BASE



- SECTION HEIGHT (TYP)
SCALE: 1/25

Dimension					Reinforcement																																		Quantities PER m RUN		MAX BEARING PRESS. kg/cm²	MAX WALL HEIGHT
H	B	C	D	t	BAR A1					BAR A2					BAR A3					BAR D1					D2			B1			F1			F2			L								
CM	CM	CM	CM	CM	size mm	sp cm	a cm	b cm	LENG	size mm	sp cm	a cm	b cm	LENG	size mm	sp cm	a cm	b cm	LENG	size mm	sp cm	a cm	b cm	LENG	size mm	sp cm	LENG	size mm	sp cm	LENG	size mm	sp cm	LENG	size mm	sp cm	LENG	size mm	sp cm	NO.	CON cu.m	STEEL kg		
150	75	20	30	25	–	–	–	–	–	–	–	–	–	–	12	30	140	35	175	12	30	140	20	160	–	–	–	–	–	–	12	30	65	12	30	65	10	30	18	0.53	26.79	0.62	150
200	110	25	30	25	–	–	–	–	–	–	–	–	–	–	12	25	190	40	230	12	25	190	20	210	–	–	–	–	–	–	12	25	100	12	25	100	10	30	24	0.75	39.84	0.86	200
250	145	30	30	25	–	–	–	–	–	12	40	120	45	165	12	40	240	20	260	12	20	240	20	260	–	–	–	–	–	–	12	20	135	12	20	135	10	30	28	0.99	53.12	1.09	250
300	170	40	30	30	–	–	–	–	–	12	25	135	60	195	12	25	290	20	310	12	12.5	290	20	310	–	–	–	–	–	–	12	12.5	160	12	12.5	160	12	30	35	1.25	98.39	1.33	300
350	205	45	35	35	–	–	–	–	–	16	30	165	70	235	16	30	340	30	370	12	15	340	20	360	–	–	–	–	–	–	12	15	195	15	15	195	12	30	40	1.66	124.58	1.57	350
400	240	50	40	40	16	45	80	80	160	16	45	175	30	205	16	45	240	30	270	12	15	75	20	95	12	15	355	16	45	355	12	15	230	20	15	230	12	30	44	2.13	155.73	1.82	400
450	275	60	45	45	16	37.5	85	95	180	16	37.5	190	30	220	16	37.5	270	30	300	12	12.5	80	20	100	12	12.5	400	16	37.5	400	12	12.5	265	20	12.5	265	12	30	50	2.66	201.96	1.99	450
500	310	70	50	45	20	45	110	105	215	20	45	200	35	235	20	45	300	35	335	12	15	85	20	105	12	15	445	20	45	445	12	15	300	25	15	300	12	30	55	3.13	247.51	2.17	500
550	340	85	55	50	20	45	115	125	240	20	45	225	35	260	20	45	330	35	365	12	15	90	20	110	12	15	490	20	45	490	12	15	330	25	15	330	12	30	60	3.73	271.25	2.31	550
600	370	100	60	55	20	37.5	120	145	265	20	37.5	245	35	280	20	37.5	360	35	395	12	12.5	95	20	115	12	12.5	535	20	37.5	535	12	12.5	360	25	12.5	360	12	30	64	4.38	341.22	2.45	600
650	405	105	65	60	25	45	160	155	315	25	45	260	40	300	25	45	390	40	430	16	15	110	30	140	16	15	580	25	45	580	16	15	395	30	15	395	16	30	71	5.12	521.60	2.69	650
700	435	110	75	65	25	45	170	165	335	25	45	280	40	320	25	45	420	40	460	16	15	120	30	150	16	15	620	25	45	620	16	15	425	30	15	425	16	30	75	6.08	556.85	2.98	700
750	470	115	85	75	25	37.5	180	180	360	25	37.5	300	40	340	25	37.5	450	40	490	16	12.5	130	30	160	16	12.5	660	25	37.5	660	16	12.5	460	30	12.5	460	16	30	79	7.32	688.95	3.24	750
800	505	120	95	80	25	37.5	190	190	380	25	37.5	325	40	365	25	37.5	480	40	520	16	12.5	140	30	170	16	12.5	700	25	37.5	700	16	12.5	495	30	12.5	495	16	30	84	8.50	734.94	3.50	800
850	540	130	105	90	25	37.5	200	210	410	25	37.5	350	40	390	25	37.5	510	40	550	16	12.5	150	30	180	16	12.5	740	25	37.5	740	16	12.5	530	32	12.5	530	16	30	89	9.95	814.38	3.69	850
900	580	140	115	100	25	37.5	215	230	445	25	37.5	370	40	410	25	37.5	540	40	580	16	12.5	165	30	195	16	12.5	775	25	37.5	775	16	12.5	565	32	12.5	565	16	30	92	11.78	859.86	3.94	900
950	630	150	130	110	25	30	225	250	475	25	30	390	40	430	25	30	570	40	610	16	10	175	30	205	16	10	815	25	30	815	16	10	620	30	10	620	16	30	98	13.73	1067.31	4.02	950
1000	700	160	140	120	25	30	235	270	505	25	30	410	40	450	25	30	600	40	640	16	10	185	30	215	16	10	855	25	30	855	16	10	690	32	10	690	16	30	105	16.04	1204.33	4.03	1000

PETRA
Petra Development & Tourism Region Authority

RainWater Drainage Project
Taebah/ baten saed

DRAWING TITLE:
Retaining Wall

SCALE:	Dimensions Are:	DRAWING NO.
1:100	IN (m)	
		S.A