



اللجنة الأكاديمية للهندسة المدنية

دفتر

فاونديشن

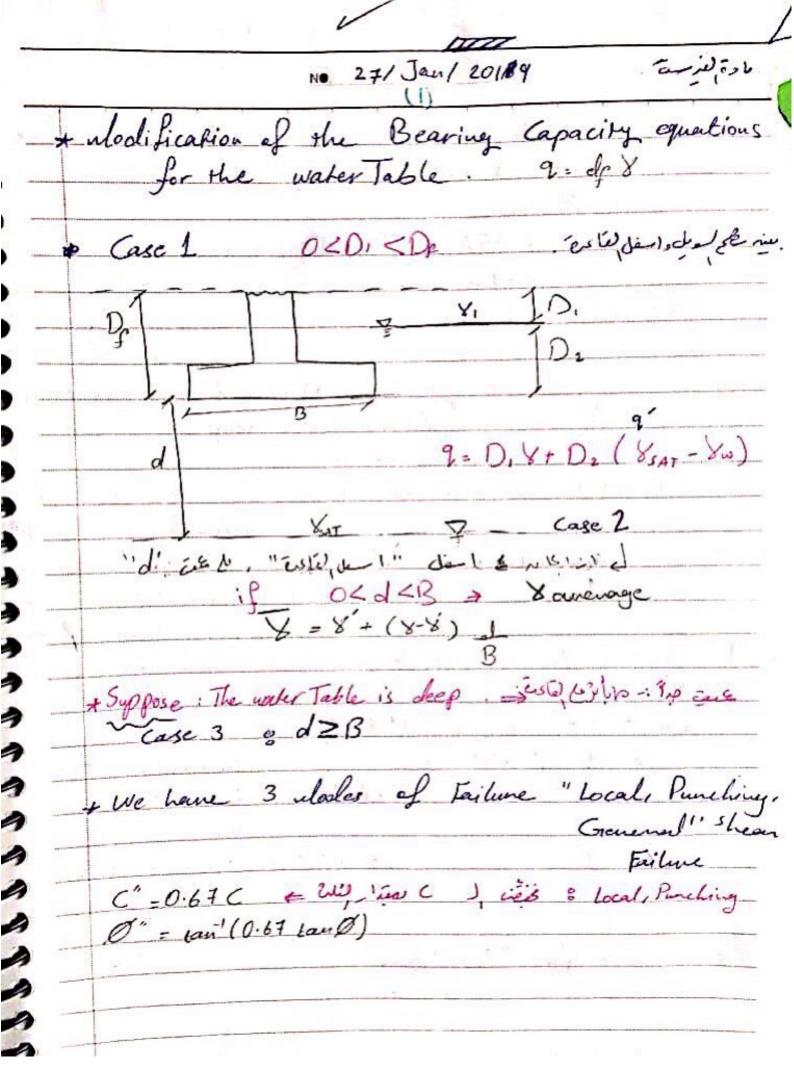
دانيا الخوالدة

Contact us:

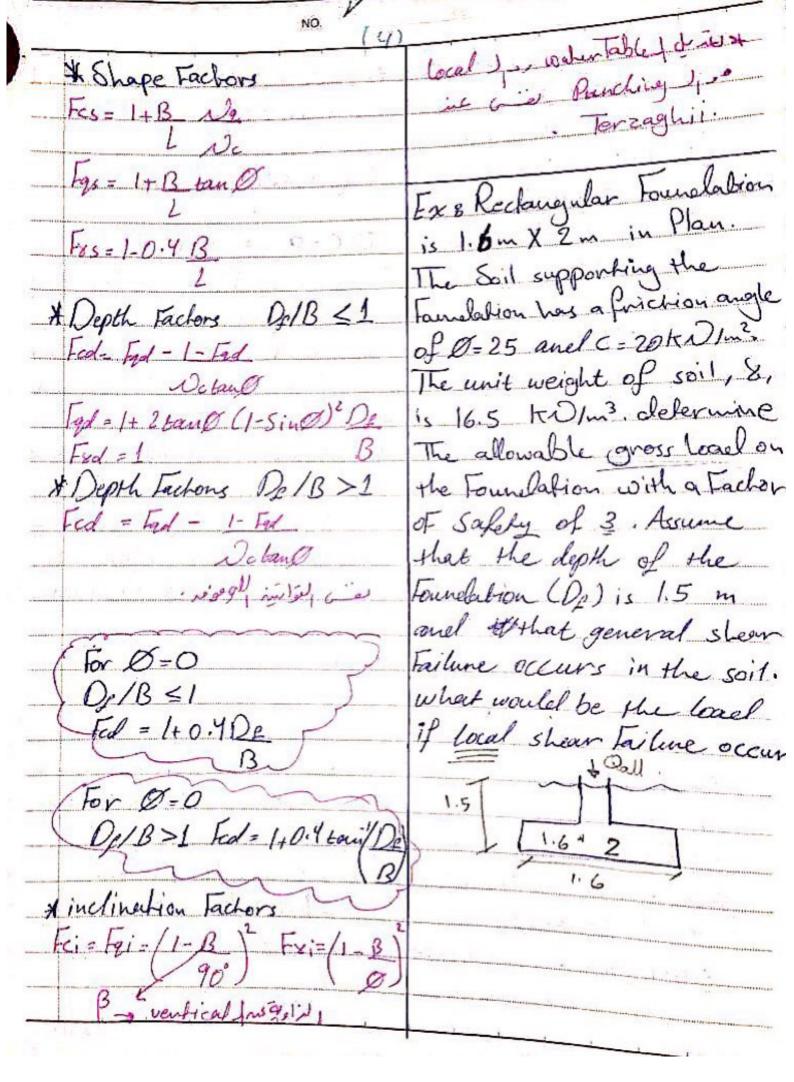
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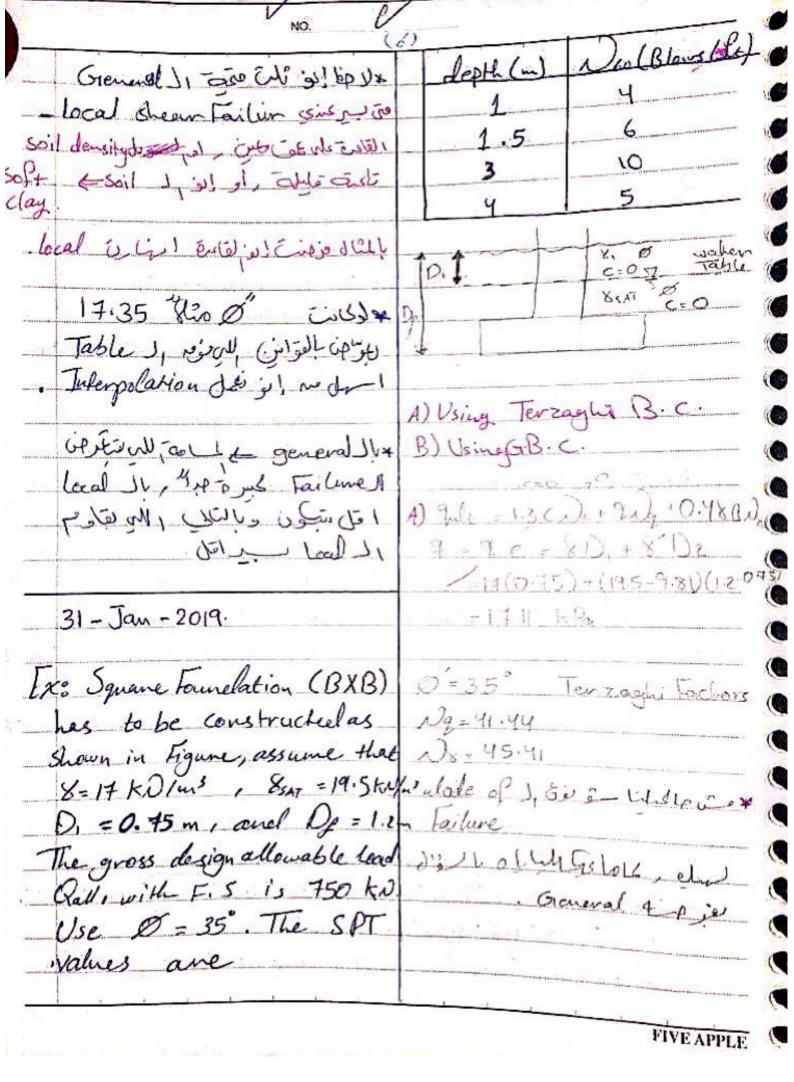
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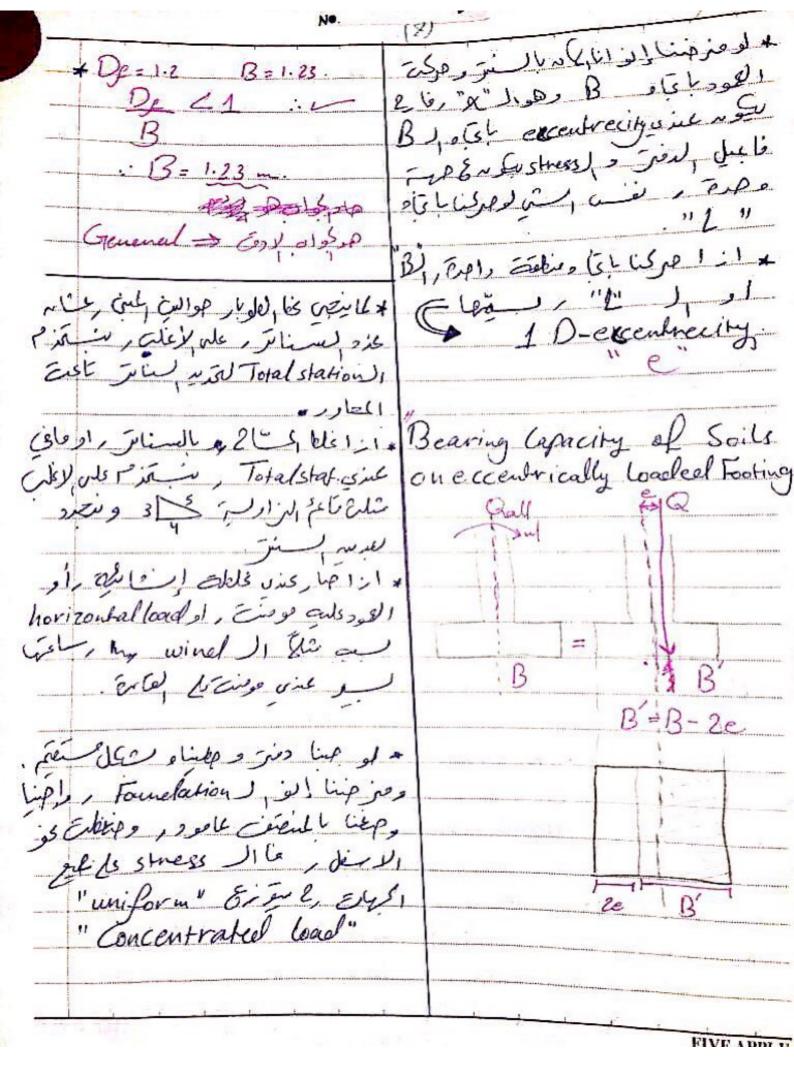
	(3)
- 6) 8 4 EVEL DILI = 3	(3) & Galt - gult "Anen - 3813.97 = 169512 423 72
- 8 = 8 + (8 - 8) d'	= 1695-12 423 7
8 = 21.81-9.81 = 12k)/	3 Qall = 3813.97 - 953.5.
8 = 12 + (19-12)/1 1-16-5	4
8 = 12 + (19-12) (1)=16.67 (1.5) KW/	"if C=0 → Sand.".
	" Come of Bearing Comi
Pult = 1.3 65 17.69	"Greneral Bearing Capacity equation".
- + (1.6 * 19) * 7.44 + ·	f. well he had
- 40.47-16.67 +1.5 *3.64	Tels wall I shapel, Telder
= 1757.4.	عب ارز "ال"
	* every when Fod = 1
Qu 91 +1 2	Table 3.3 NO " ON HOD ! DER US A
Gall = Jule + Anen = [757.9.1.52	
F.5 4	Tenzaghi Pirin n. 1 L-
= 988.5	- North Tempolia Lin b-
القنوبها فلادلان (ع	- SUP 1 - 1 UI
: 2 -> jEp	
	29/Jan.
2 = 8, D, -8 D2	deal new 12 25 -0/3/4/801 "6x
- 19+0.6 + 12+1	a holyster depth 1, "Shape"
= 23.4 K Pa.	inclination' & ventical 1
	08 ON W. JC , Up _
8=8=12KD/L3	- 0 000 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	2, , , , , , , , , , , ,
Jule = 1.3 + 65 * 17.69	Full = C No Fes Fed Fei
+ 23.4-7.44	+9 Ng Fqs Fqd fqi
+ 0.4 + 12 + 3.64 = 1695	1 +18BUx Fes Fed Fgi
	2

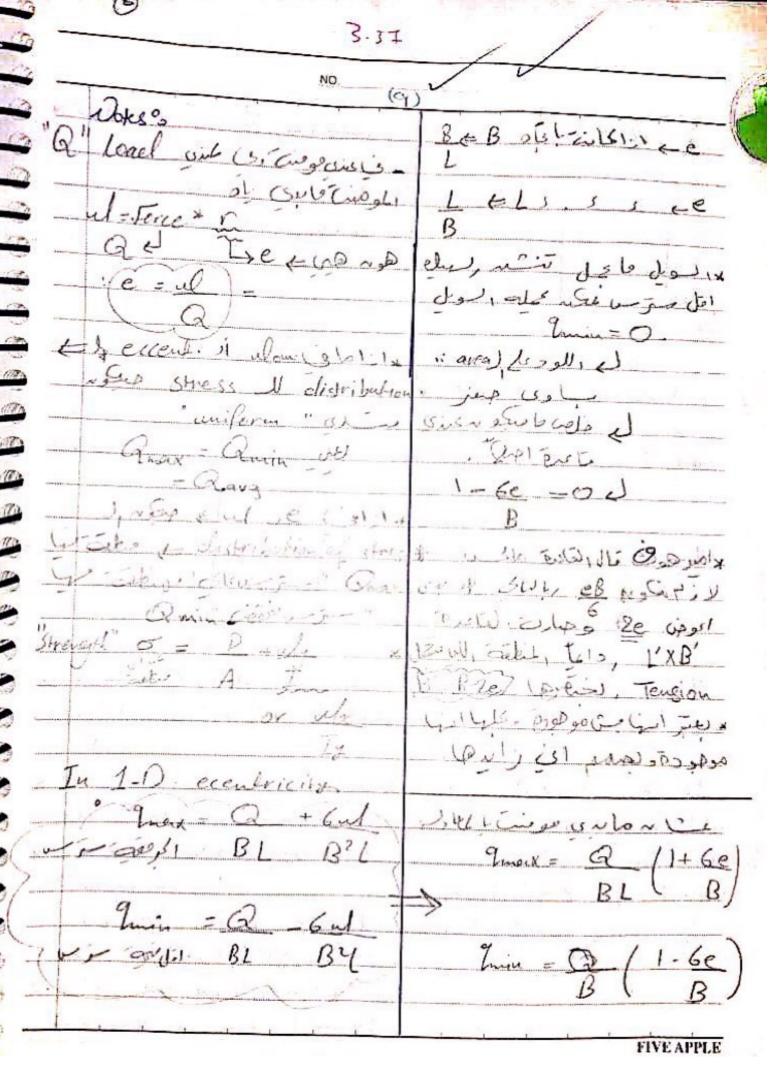


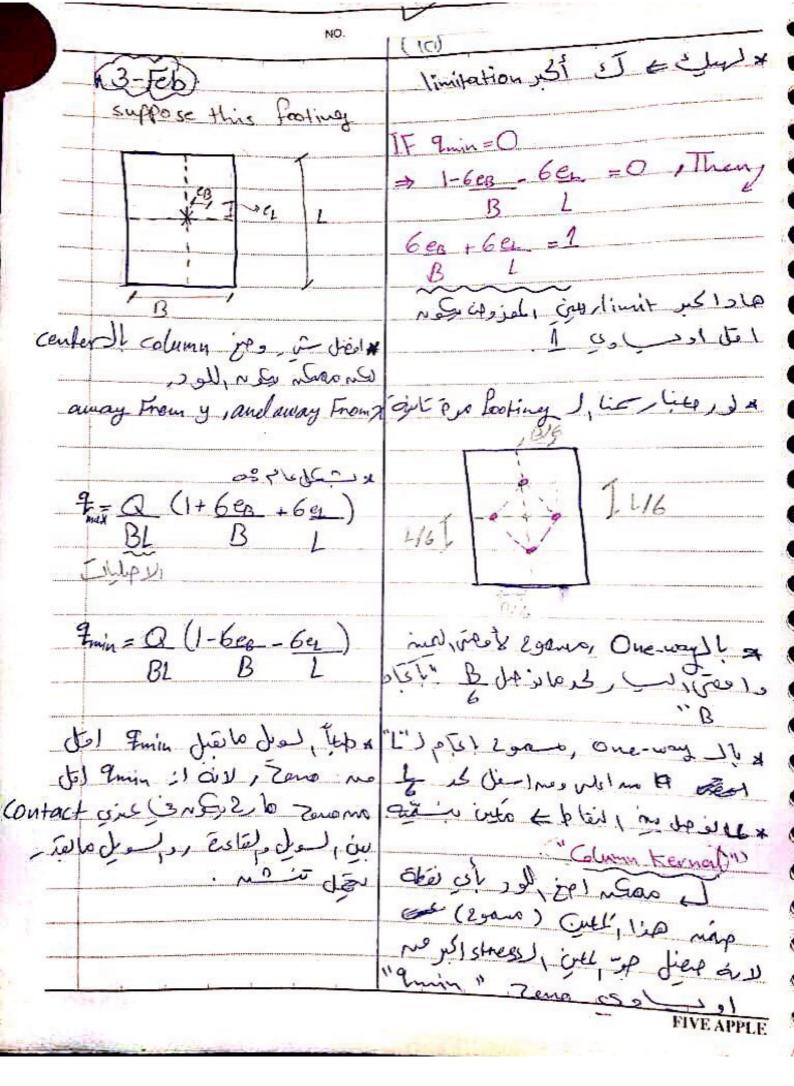
Cal	(5)
- Ollution 8	10cal 1:1 Out 5
	9.3 6-1.5
	F. S = 3
91	
bull = CNEFES	Frat Fri + Pry Fas Fad Fai + 1 & Bris Foots;
Wc=20.72	Jult = 20 -20.72 - 1.41 -1.32 -1
Ng = 10.66	+ 16.5 -1.5 -10.66 -1.37 -1.29-1
UX=10.88	+ 1 *16.5 *1.6 *10.8 * * 0.68 *1
	2
Shape Tachors	= 1335. 21 kPa.
	Qult = 9ult * Anen = 1335.21 1.6.2
- FCS = 1.41	= 427267 4272.67
Fgs = 1.37	Qall = 4272.67/3 = 1424.22 KD.
Eys = 0.65	"general shear Failure" LL de Tils old
+ alepth Tactons	+iF local Shear Tailune Occur & local Stubs
	c"=0.67 c" = 0.67 20 = 13.4 kPa
	0" = tan (0.67 tam 0) = tan (0.67 tan 25)
Feel = 1.32	≈17.35 ≈ 17.
	: Q=17 ⇒ Nc=12.37 Ng=4.77 N8=3.5
	Fcs = 1.31 Fgs = 1.24 Fss : 0.68
inclination	Fgd = 1.28 Fcd=1.28 F8d=1
(Fci = Fgi = Fgi = 1)	- Same here
Pule = 13.4712.3-	7 * 1.31 * 1.28 * 1 + 16.5 * 1.5 * 4.77 * 1.24 * 1.28 * 1
+ 1/2 * 16.5 * 1.	6 * 3.53 * 0. 68 * 1 * 1 = 514. 5
	1.6 *2 = 16 4 6.57 = Get = 548.85
	FIVE APPLE

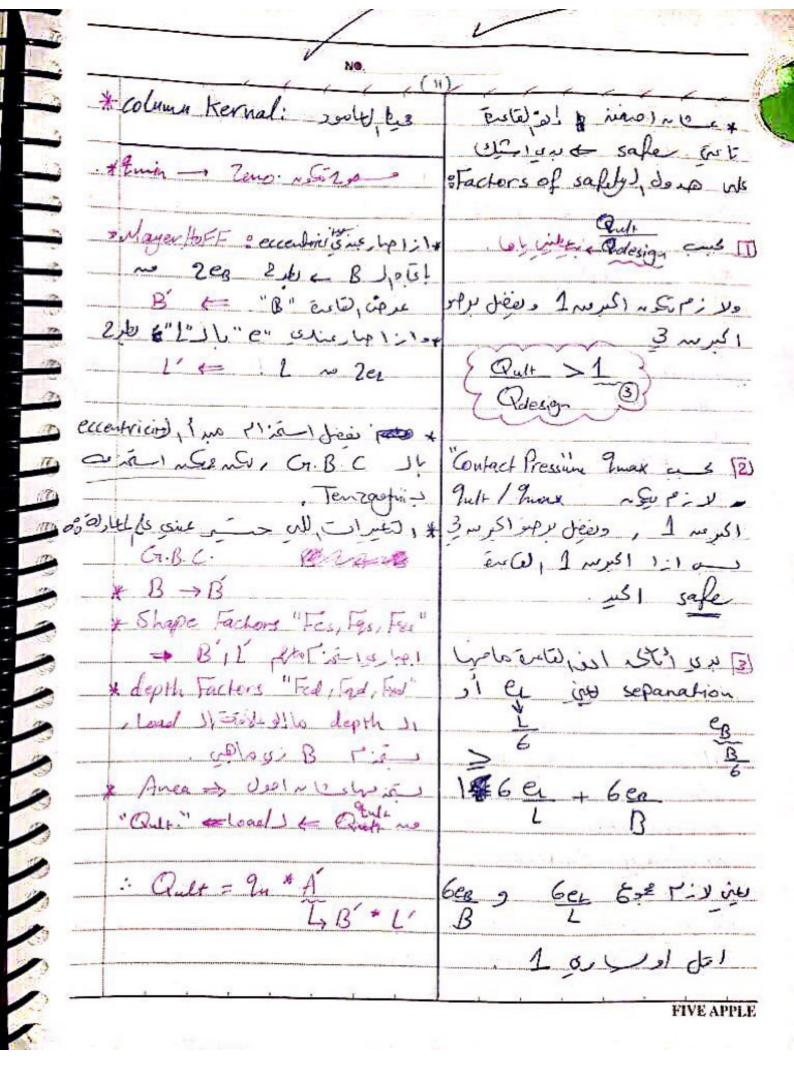


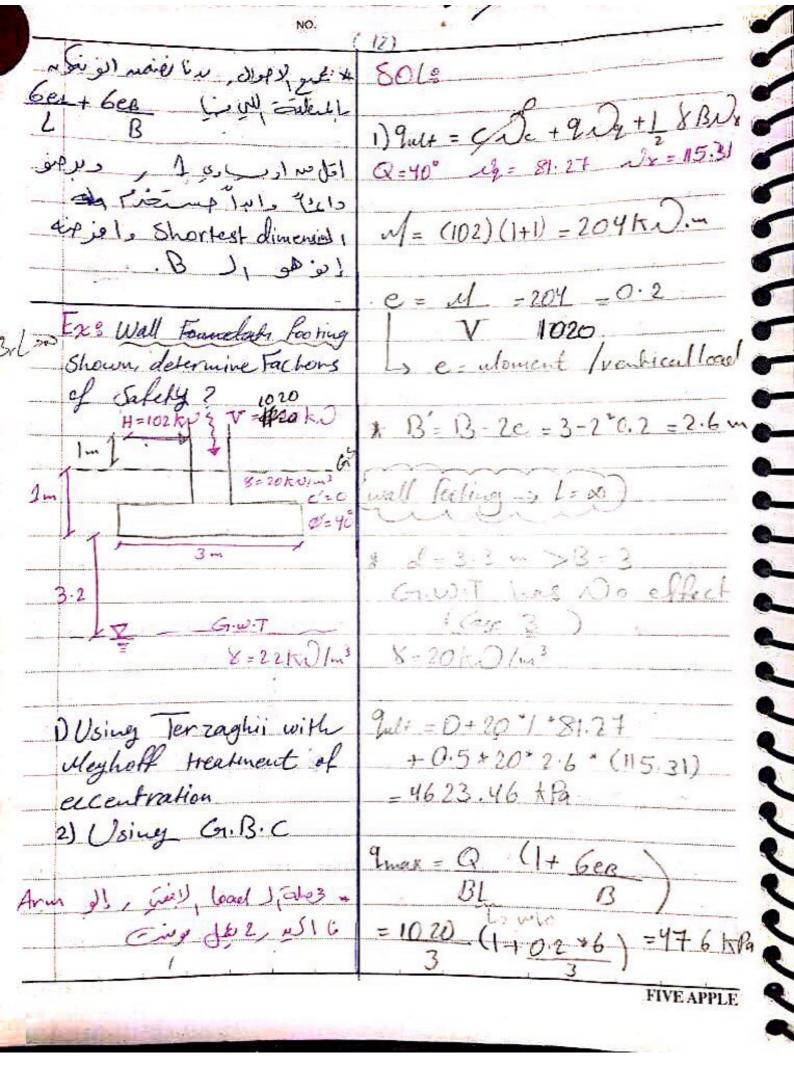
NO. V	(7)
= Pult = 0 + 17.11 "41.44 + 7 19	Has = 1+ B tan .
+0.4(19.5-9.81) (B)(45.4	0 = 1+ 13 tan 35
= 709.03 + 176.01 B - 1	B = 1.7
	*F85 = 1-0.4B = 0.6
But Jule = Qule	1
Δ	assume Dr <1
= Goll *F.S = 750°3	B
A B*B	15 3150 WEISI NGL, NOX
"Software	1) eles tis assumption 1,
	in les also check EUE
:. qult = 2050	1 < 10 , المروي المالية المالي
B2	B
Back to equation (1)	dellus ser assumption so le
2250 - +09.03 + 136.018	viel en
B2	
	1/6x = 1/2 (an 35 (1-5in 35)2/12
13=1.52	=1+1.305 B
	B
B) 944-CDFESFAF	Fxd-1
+9 1/9 F9 5 F9/ F9:	Assume 1 Do inclination
+ 1 8 B DOFES TO TO	[i = [a] = [u: -1
2	
0-35° (G.B.C Tok)	250 = 117.11 (33,30) (1.7) (1+0.305)(1)
17 - 32 2	132 D
12- 4202	+ 1 (19. 5 -9.81)(13)(48.03) (1)(
76= 18:00	2
	-1. 72m
	=1.223
	FIVE APPLE

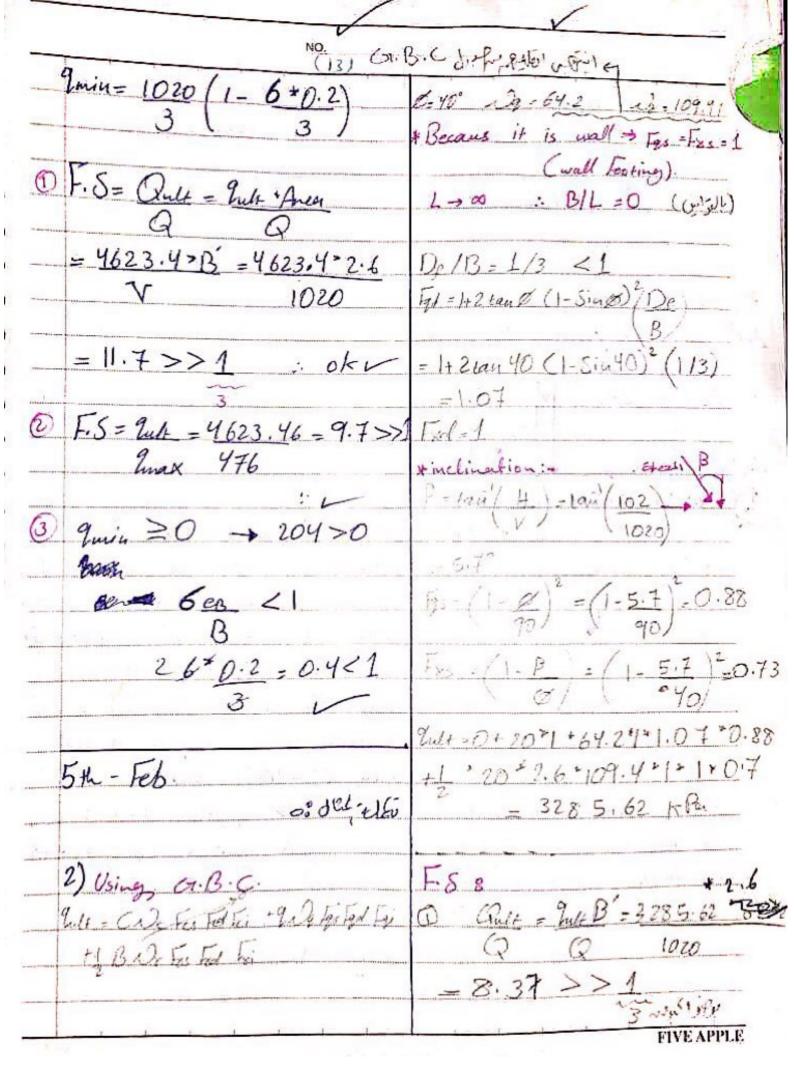


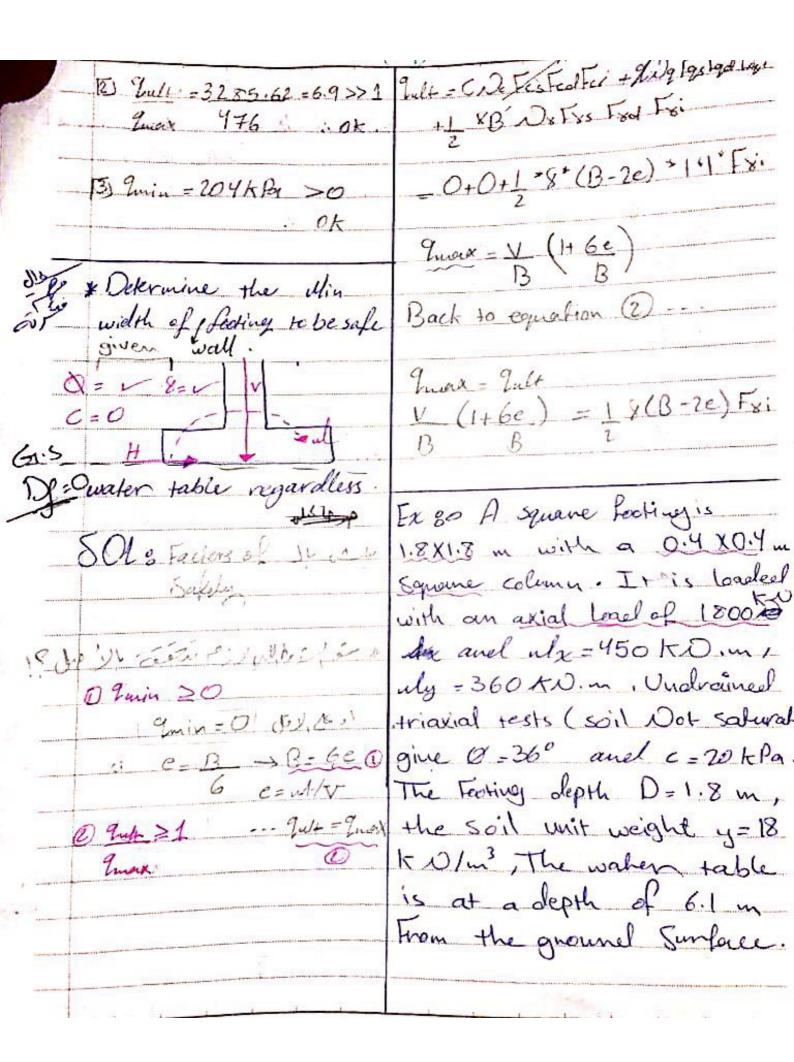


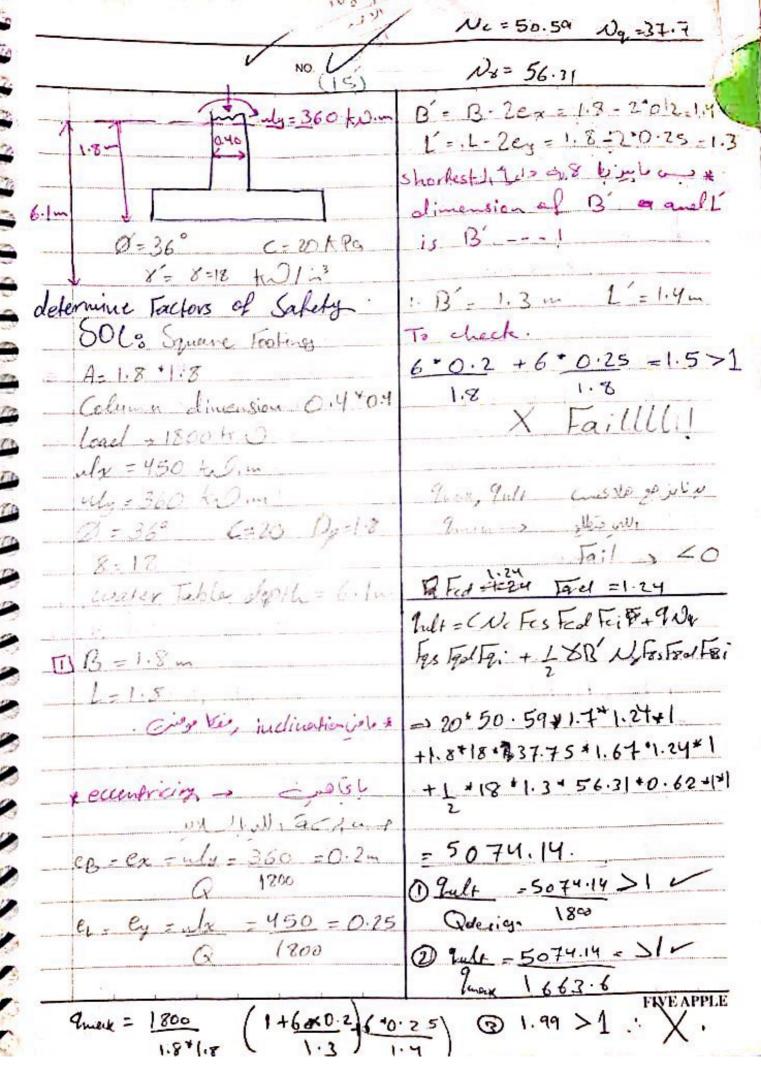


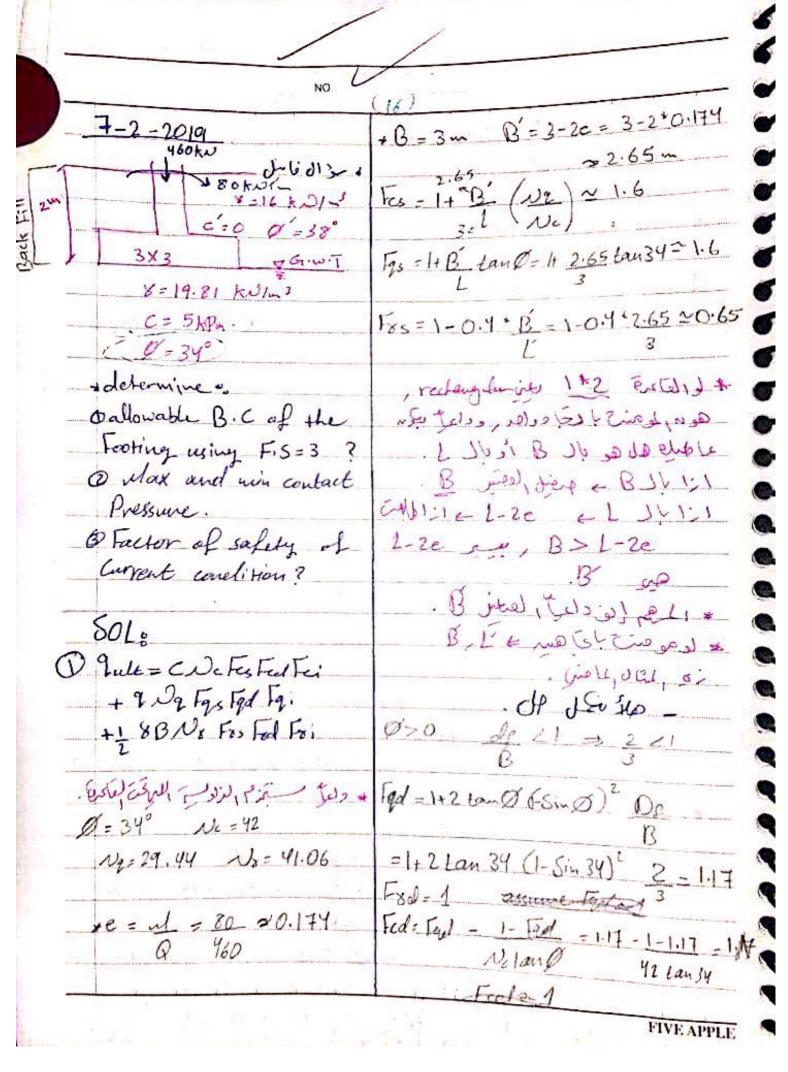


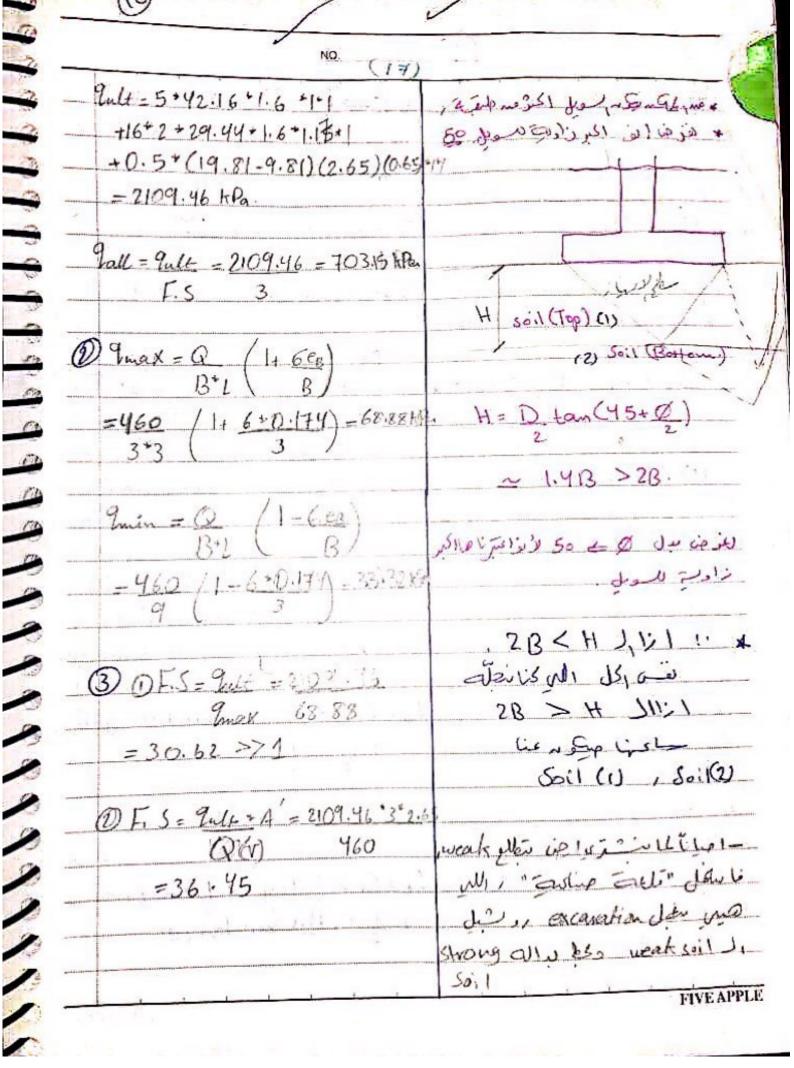




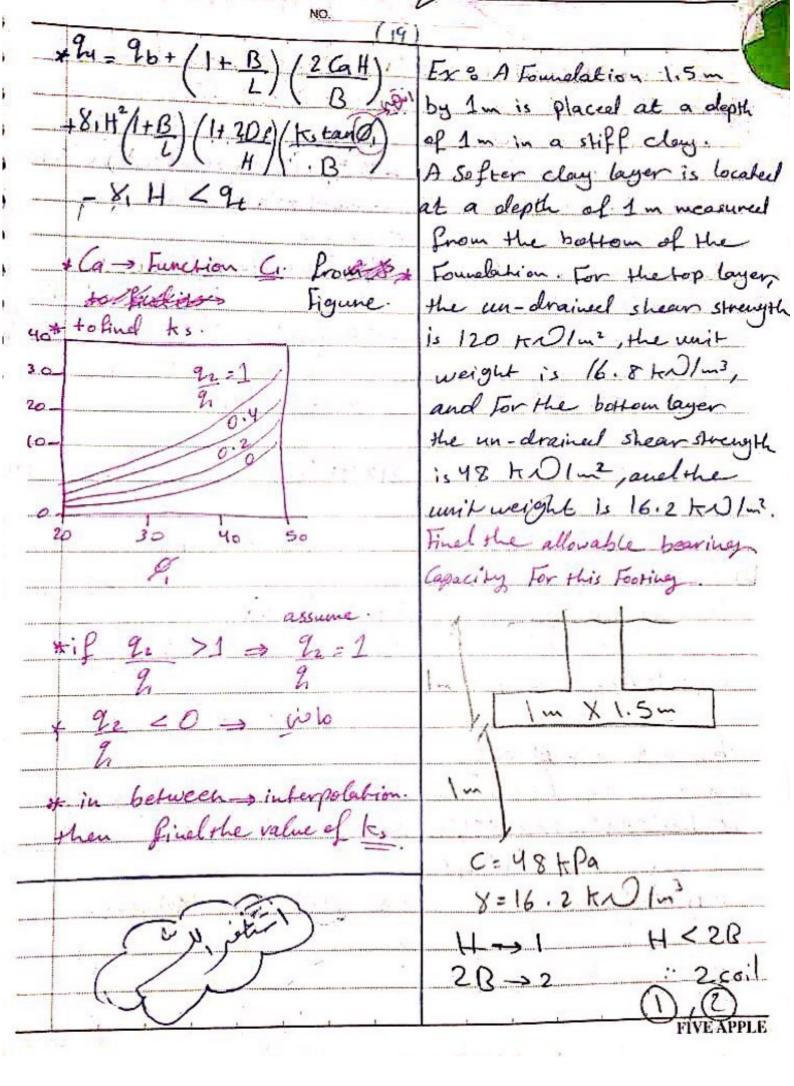


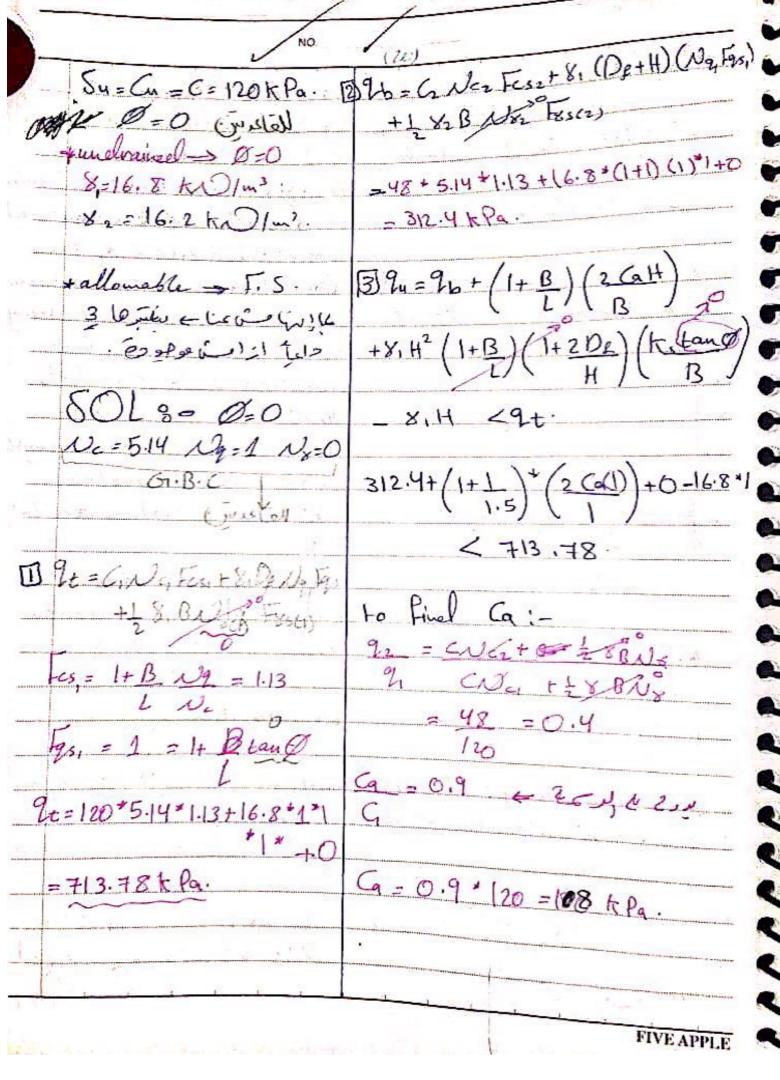


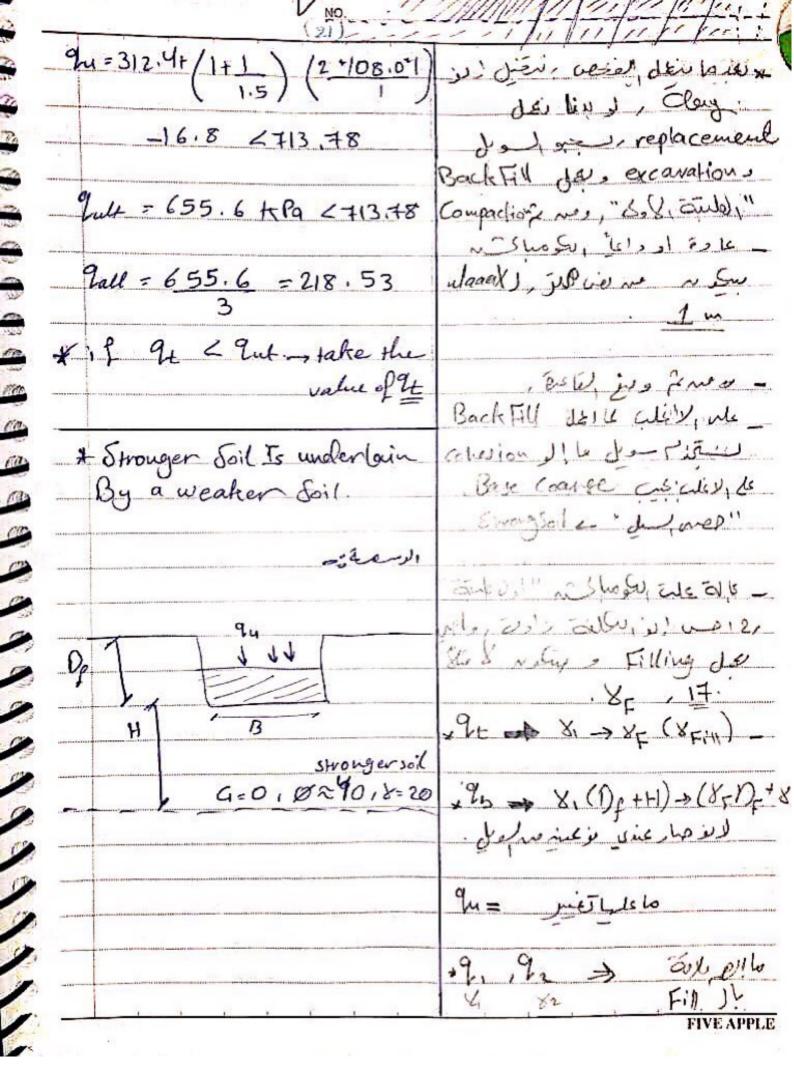


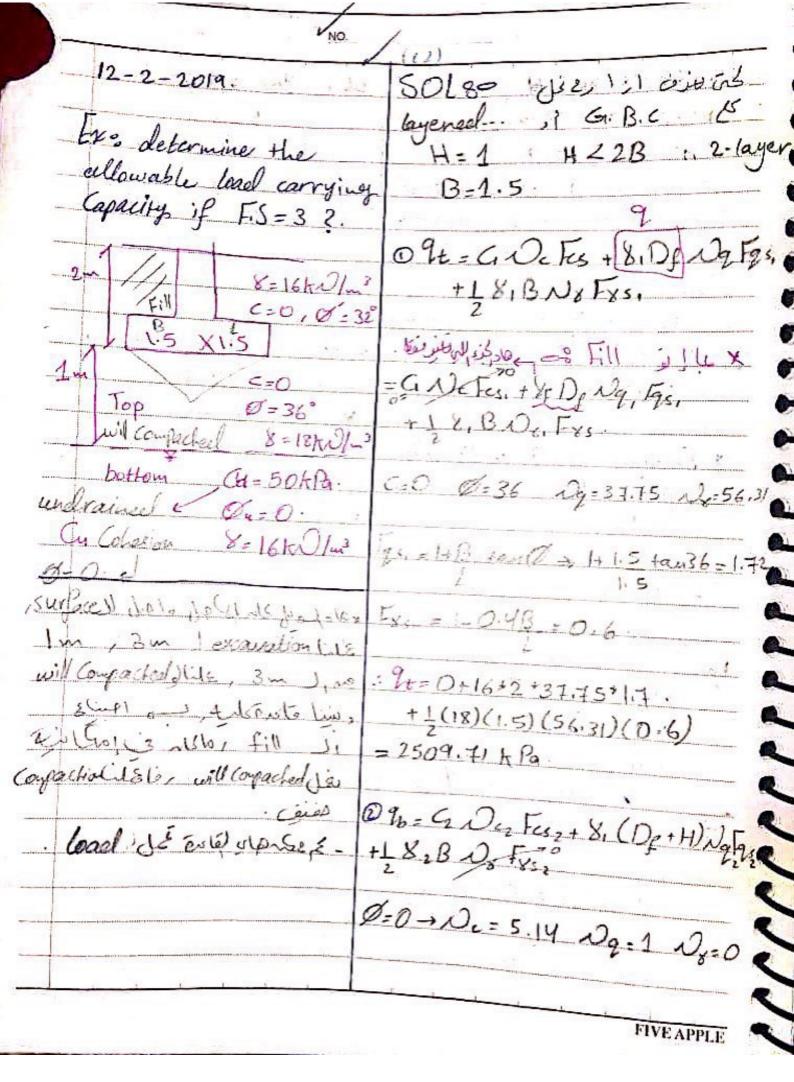


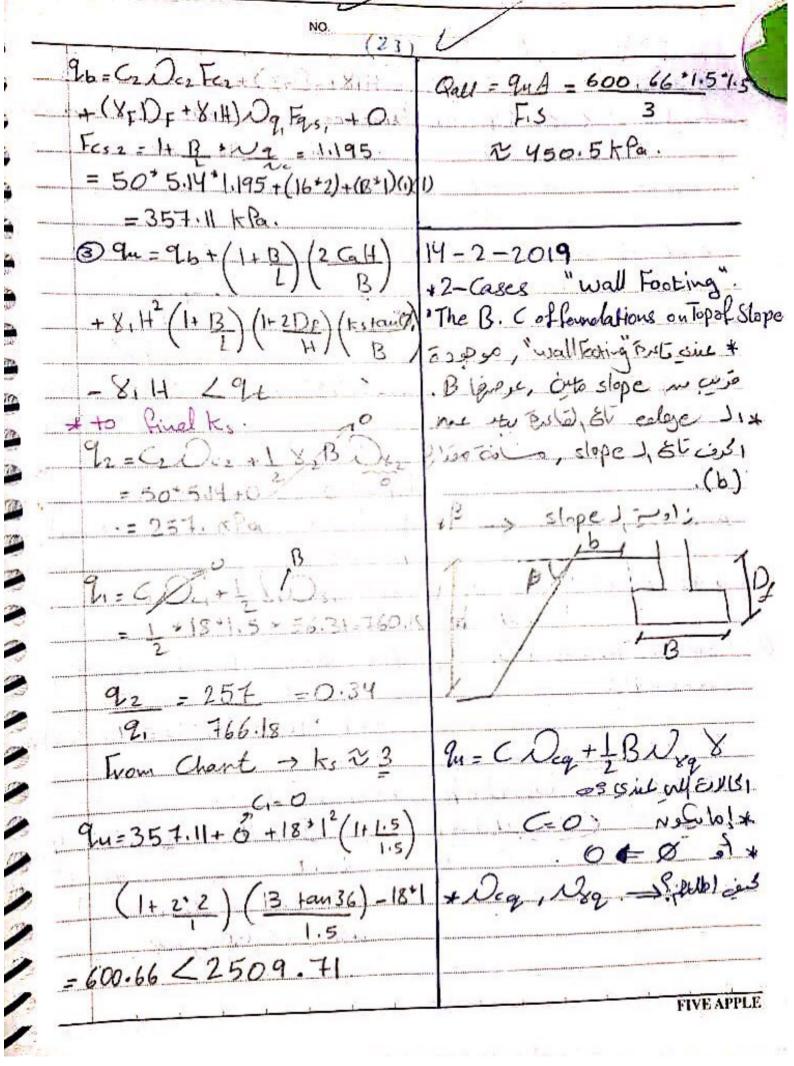
No.) (18)	
- she Compaction - "I' as i' i' i' i' i'	panahlshi) de - 1-
- 50 1 First soil layer ~ 500 cohesion 1,000	De Smandy r
: (e) and lamp was 1.	0 h
Last all a last la Co. Conch	ing but the
(0:5 >1.5) War o 18 , 28 Function & W. " a	elhesion " sic
أللي سببها بقارك دهيه طابك نه ينظن على لاسنا ر	Taule 2 4)
	ميكر مين معارد
layer Bearing Capacity. time	Punching Cofficent
	<u> </u>
layer Be a Clab mosio, Do , Joh mis =	is aub sichilx
	Solar, Timbo
ريا» کالية	ستديها, لول
10-2-2019. (H < 2B) , G.B.C	- carbi up TK
Cartiff Spris, Association files DAS 200 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 ml ~ 5 21
210 d 13 10 de 100 x caral or 15 1 2 12	
2B 6 0 1 1 1 1 58 - 200 - 0 20 -> B.C	of layer (2)
	4 aug de de 2, 4
8, Kinge (D" Top " do y or swo, eccentric	ity - Inclination
	رى لەت رەنكى در
82, 62,02 2b = C2 Oc. Fee	+ X. (De+H) Jaz Fasz
ilea strong dolland, Eilli- +1 & B	acs) Execs)
	s(s) (s)
101/2064 Examplion 10 18 > 58	46, N 2'C
Top us just was the sall	الموسي الموسي
262441116 (161 9 - 0 -	+8, Do 22 15
- Line doies his lieure, +18, B11	De varesco
(Punching) 2~	1) +82 (1)
Φ.	

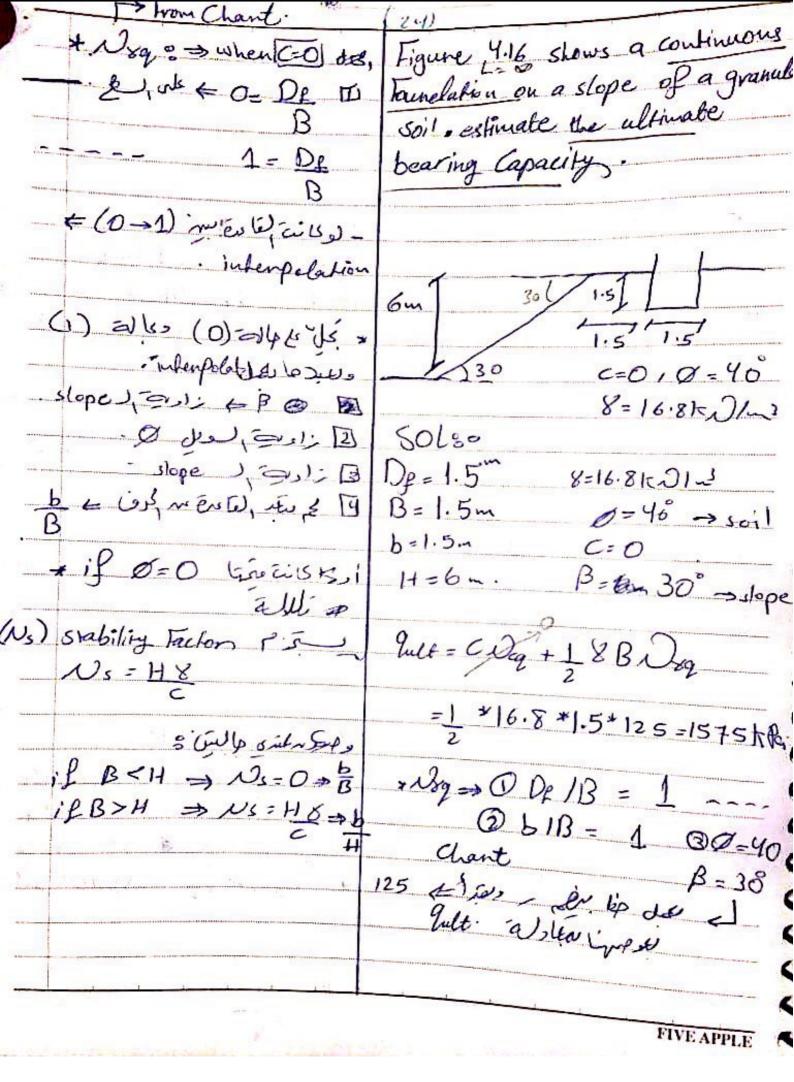


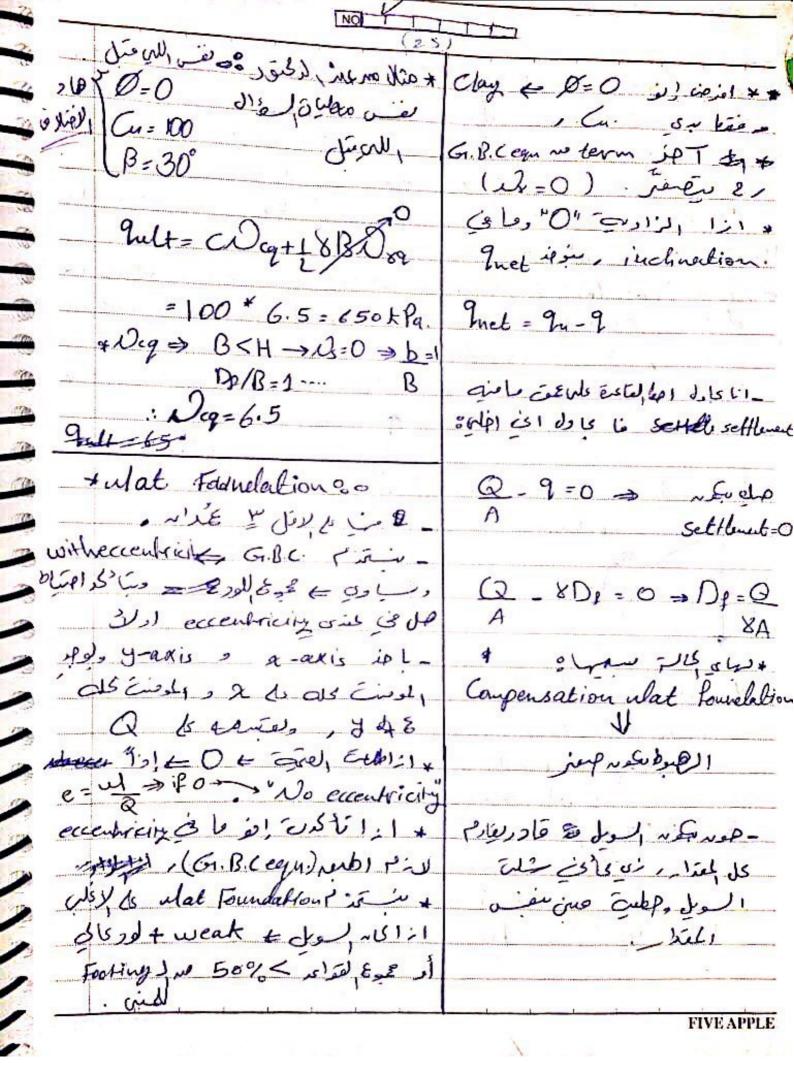






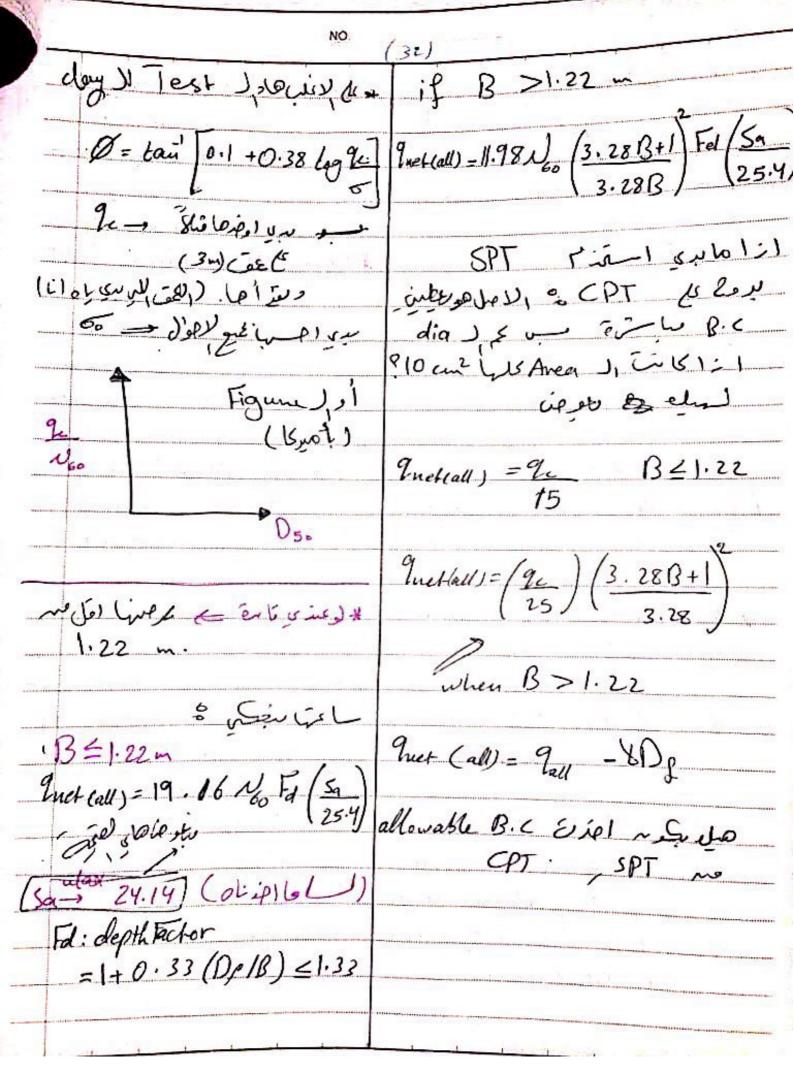


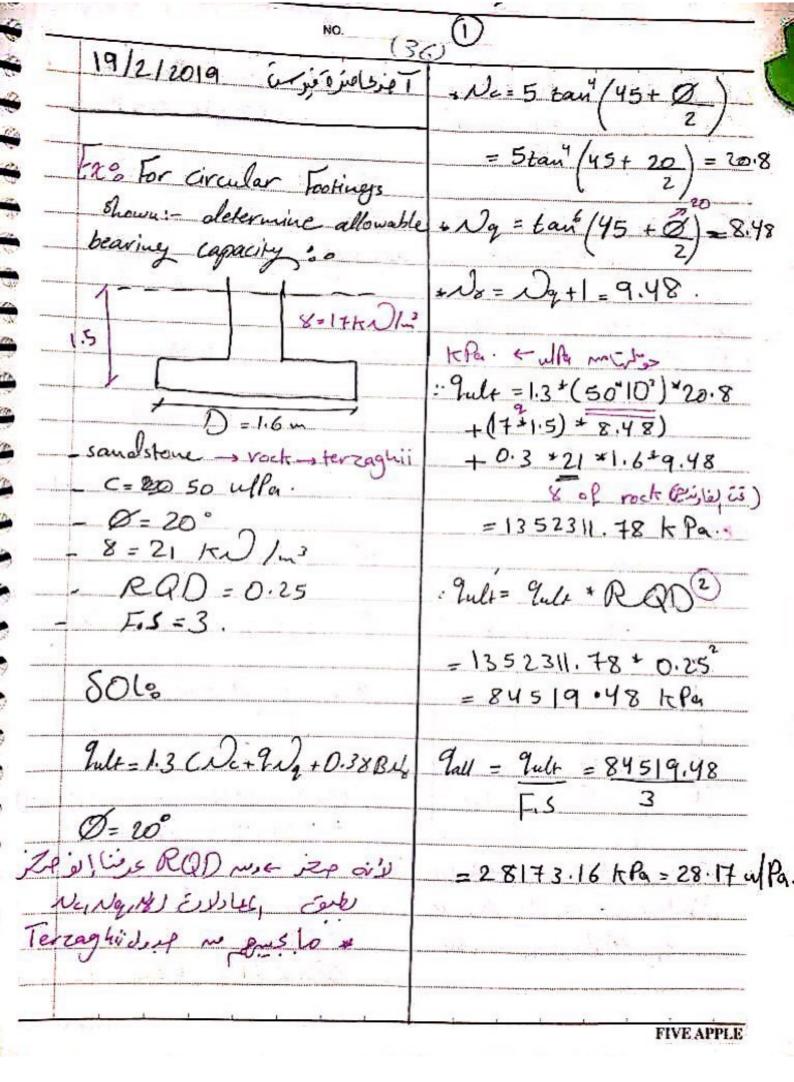


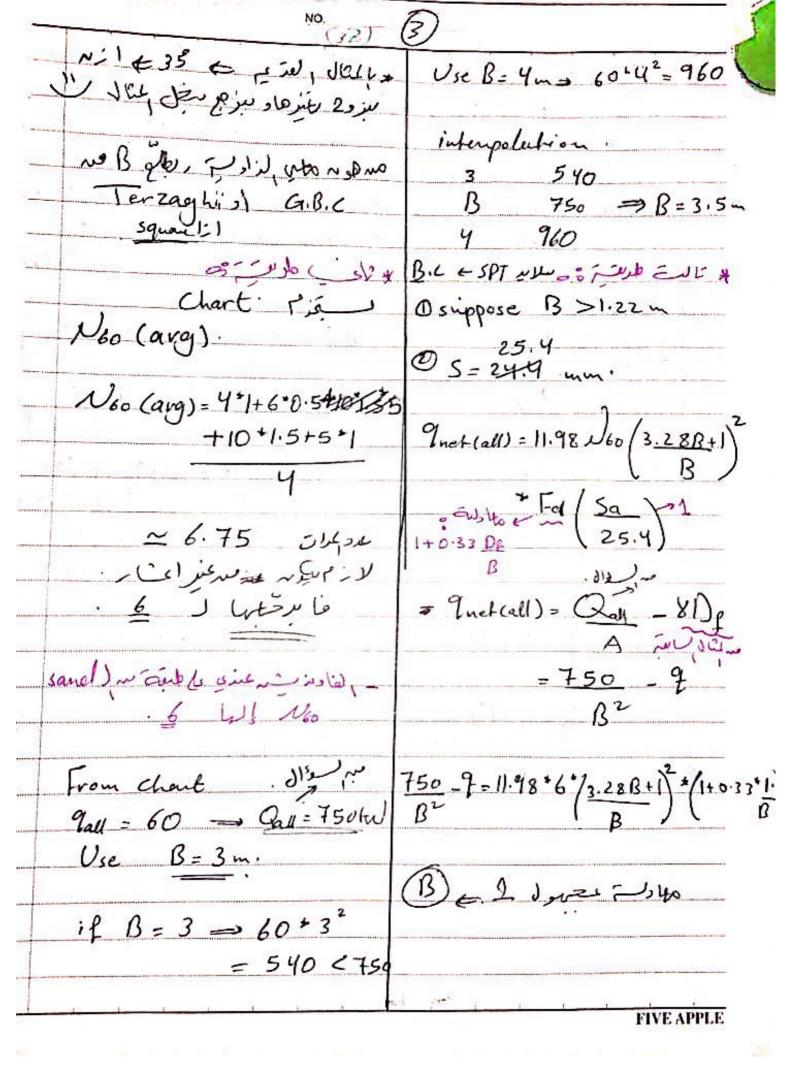


4	131/CP Bic for R	Lock formelation.	
	NO.		
	17-2-2019. LE U	oil SPT Number >100	
,	Standard Penefration Test.	using lip is sauch ois le !.	
	م الله الله الله الله الله الله الله الل	- Rock	
	= sidépluse 4 iss		
	- Soil ProPenties such as "Consider	- ازاىنىي محتر ريات فالله	
	- Soil ProPenties such as "Considered for clay for clay internal Friction asses	Coarse wilip,	
	density, classification	- Elap dypone	
	سيمذاع مشكل رسيسي في خو SPT →	_ های کفاع ورودة د cylinder	
3	USA	الياكس جفر رسب ادجد	
	الارروسين ما عدهم جحوار ١٠٦٠ ١	هازلکورس م المعط اعرف امثی	
	(اصده) ر او موجود ب لعلمل" عا فروا فلي	"rock quality " ar"	
	clays escite. ()	designation	
2	عدم طافتي رفاعلوق		
	ye coles on des = "CPT"	in less B.c ceste us lies_	
		rock de spel,	
	Ces Ele 1: 1 / Ser 4 de/ side -	Factors, Terzaghii Pirines	
	10801 de 00) vielo, cPT	of safety s G.B.C:	
3	ر مافنی دان بقل ان قام دار دور ان ان قام از دور	() () () () ()	
		The Est 10 to Therefration	
9	SPT/CPT-Où 2 2 SUM	Standard despition number	
1	different), footing & B.C J	Stanta // Yenemaron resiste	
7	wielth.	100-10,5 ~ S ~ S ~ 20,00 - " Will S ~ 001"	
	1 inch de el poet, jet apiente		
	سنحت طلاعلى لعجز بازاكام	100 E Well -	
2	SPT Number > 100		
13		FIVE APPL	

N60 = SPT values corrected for field Proceedure NEO = Uninansne N = Measured SPTN values. (30) 92400 pg (ve) - السول كلما الزلمنية بروكس wir is out strength Confinement, and عكم اعل فف موق عب معكم اعل قها عت مي إرسادل من سناهله عدد اعرف الالعال يعارق لعة تعالى راهمال Ni, No الوز المي تستل علوك المحول. منانسان 03 Correctionaltable Tab 2.3 dc , is if NCIS - No correction 24 Ovariation of Hamer no O Variation of diameter if N>15 - Correction: 22, # 3) variation of sagler correction your a Susti رعم " ١٠ / ١٠ ما هو + ١ لعزف سيد mp (9) " " rod length * Table 2.4. · 15 ル+ (ル-短) if No <2 طناحا رو عا 1 و طريق ع مد کرهذ بيس لاسا وجودهاد. واجده عنك وفلت وعكم مدويم الرت ے ساعبی عبی الر Gers (very soft) del. extremely on 9225 the de 155 stool 20 tu/m2 24 more a si del so if No > 30 ازم انا لدی اکر سر وی طوفت کی 25 mosigalicalo esais = sampler) view consistany), Harel ~ Sop 1.5 mys)







F	NO.	
tx: Deter.	(39)	
Vet ultimate a small mas	the Francisco	01
ultimate	B.C. Defermine the net allowa	<i>y</i> ⊆
		t
For an else	toundation foundation with B = 15m 12=10)~
CIP/L		he
Lotte	and the same and t	
- Janamel	ever 1.40 1 111 A	
B is 30 Ft,	1 10 11 12 12 10 10 10 10 10 10 10 10 10 10 10 10 10	
the wool of	is 45 Ft limited to 30 mm, and 0=	0.
the unelneuncel	Cohesion	
Cu is 1950]	b/Pt2 9n=11.98 N* (1+0.33 De) (5 the B) (5)
Ø=0 sauce	the B (25	.4
Op is 6.5 1	7. 15.93/5	1
5	1 (25)	.4)
9-514/1101	$ \begin{array}{c c} 95B \\ L \end{array} $ $ \begin{array}{c c} 2n = 11.98 \times 10 \left(1+0.3 \left(\frac{2}{15}\right)\right) \left(\frac{30}{25}\right) \\ \end{array} $	Ÿ
9=5.146 (1+0.1	$\frac{1215}{1}$ $\frac{1}{1}$ \frac	- \
	(15)/(25	٠.٠٦)
* (1+6	(25) (25) (25) (30) (25) (25)	-
	8/ 25.4)	
= 5.14 * 1950 (1+	0.195*2019 - 151 /1 2 1881 0	
	0.195°30 9 - 151 KN \$ 188 KD	
./. 0	ux a	
*(1+D	$4^{\prime\prime}6.5$	
	30/ : 151 EN	1015000
	m 2.	Starner in
= 12 ksf.		******
7	The second secon	Tarrent.
		the the

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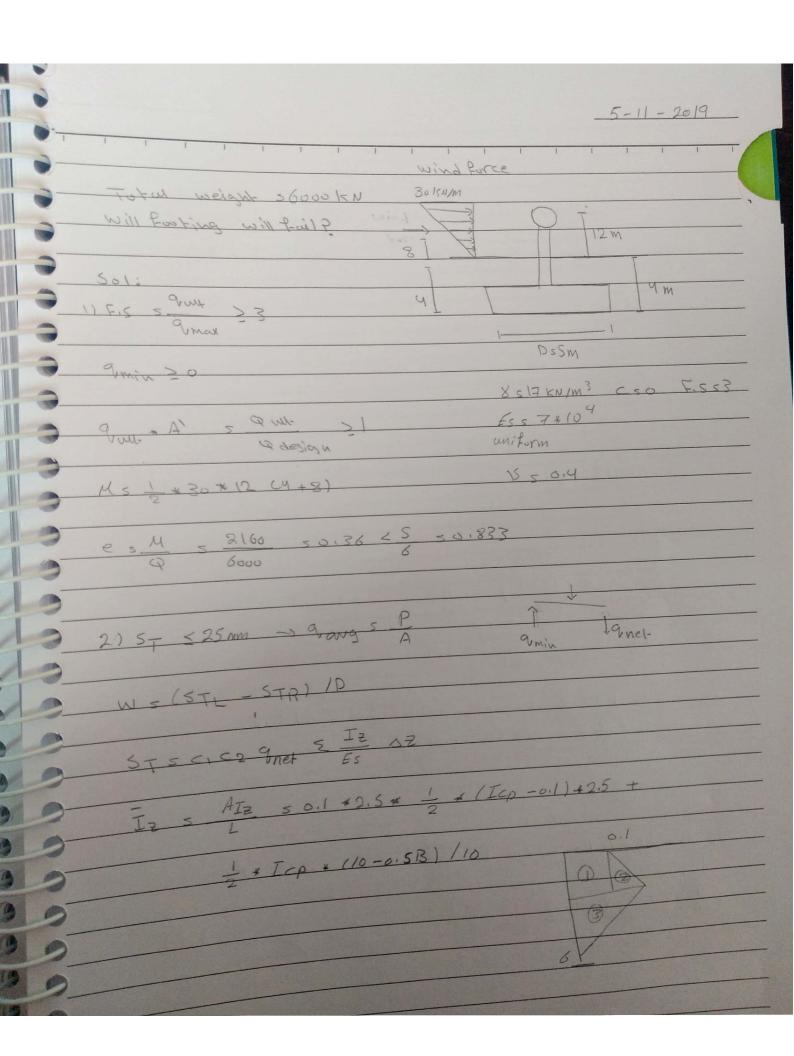
27-10-2019 reconnected and a 9,05150 Kpa 2 x 4 9 m # 11 विकेट 110 april EssEu 575 Mpa #2 8m a ore dist mar है / केंक्ट्र 11 केंद्र

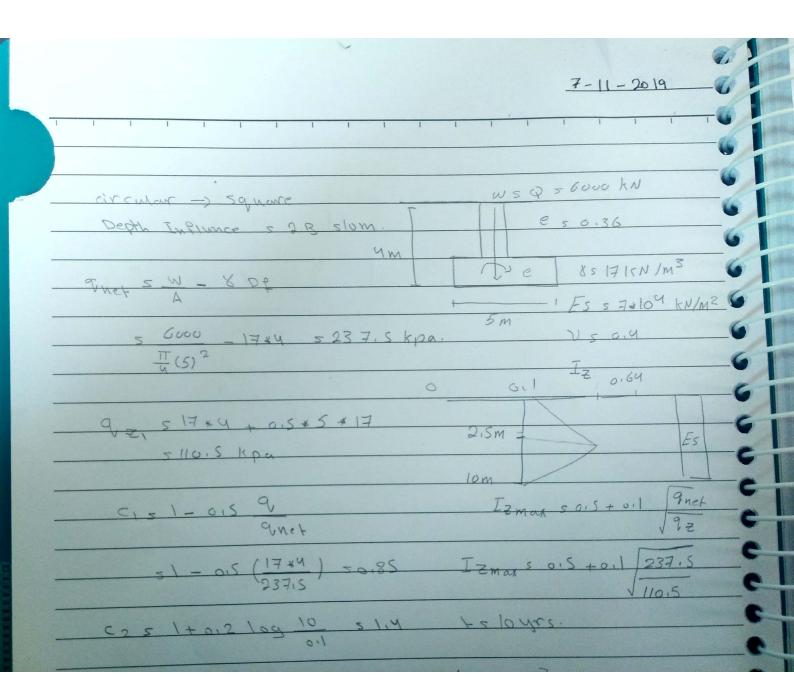
5d12 5 A, A2 90 B	504
Eu	A150.675
A2 50.925	A250.925
A 1 1 B 5 4 52 9	H s 12 s 6 M A 1 5 0 9
5d2 5 0.9 * 0.925 *	150 \$ 9 - 0.675 \$ 0.925 \$ 150 \$ 2 75 \$ 10 ³ 75 \$ 10 ³
3d 5 5d1 + 5d2 = 4.64 × 10 ⁻³ +	0.8325 × 10 ⁻³ 5 5.4325 mm.

31-10-2019 EX: For square footing 4x4m with 150 kpa net hold Constructed in soil profile shown determine total Settelment ? 85 17 KN/m3 Qc (MN/m2) sett. after by ears of 9 5 6 7 8 9 10 construction 2 -2 8519.8 KN/M2 clay N.C 60 5110 Fosloges CX 5 0.05 eo 50.425

 $\begin{array}{c} (151-0.5)(921) \\ 9215015B & 50m \\ \hline \\ 921517(4+2) & 5102 & kpa \\ \hline \\ (151-0.5)(102) & 50.66 \\ \hline \\ (251-0.5)(102) & 50.66 \\ \hline \\ (251+0.2) & kog + 51.4 \\ \hline \\ (251+0.2) & kog + 51.4 \\ \hline \\ (2715015) & 50.6212 \\ \hline \end{array}$

ı	1 1 1	1 1 1	- and 31 in 8		1 1	1 1 1
	Layer #	12 (m)	9e	Es	IZ	IZ SZ
	1	2	3.9	9.75	0:3	61 * 10-3
	2	4	3 .9	9,75	0.6	0:24
	3	2	6	15	0.2	2 5 0 327
	126 5 1	(56, 106)	+ 446	s mid)		
	~ %	(BXB) z	(150) (4*)	4) 5	12.24 1	pa.
	60, 213) * 17 + 2 * (1	9.81-9.5	81) 5 229	и Іхра	
	6¢' = 60	, + 561:	s 224 +	12.24 5	236.24	kpa,
		,				





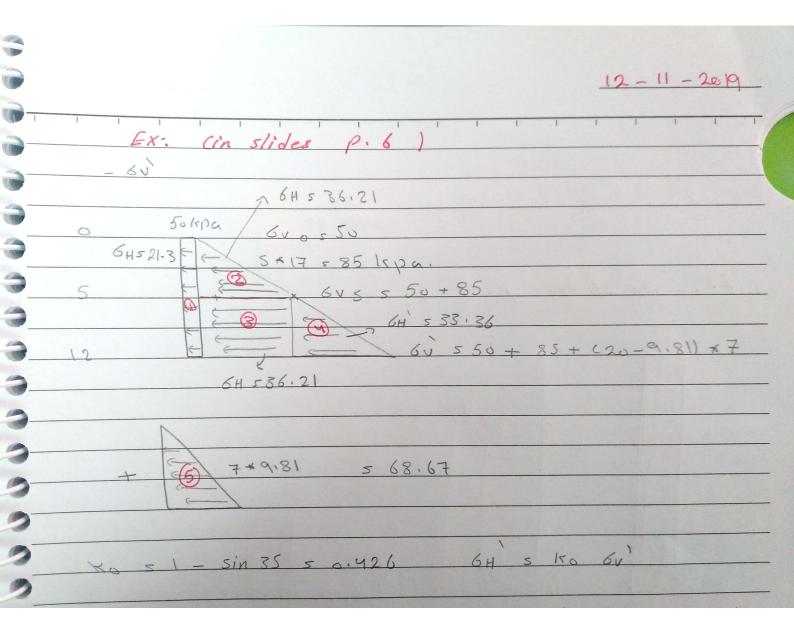
 $\frac{1}{12} = \left[\frac{1}{16} \cdot 1 + \frac{1}{2} \cdot \frac{1}{16} + \frac{1}{2} \cdot \frac{1}{16}$

The solution of the solution

1. $5e = (0.18975)(1.460)(114.1)(\frac{0.37}{24.103} * 3.5) = 8.06 * 10^{-3} m$.

2. $5d = A_1 A_2 = \frac{9}{6} = \frac{8}{6} = 0.5477 mm$ Eus 13 cuCoch 13 cu3. 5c $136 = \frac{1}{6}[56] + 466 mid + 266]$ $136 + \frac{9}{6}[5] = \frac{114.1(16)}{1.6 + 3.5} = \frac{35.79}{2}[5pa]$ $136 = \frac{114.1(1.6)}{1.6 + 3.5 + 5.4} = \frac{35.495}{2}[5pa]$ $136 = \frac{114.1(1.6)}{1.6 + 3.5 + 5.4} = \frac{17.49}{2}[5pa]$

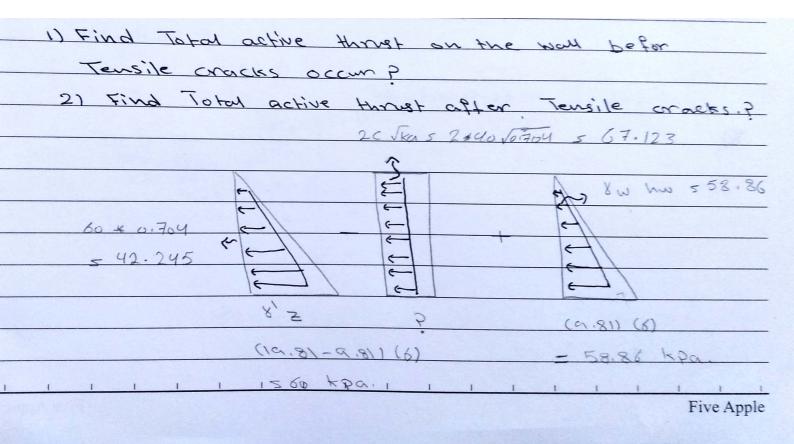
ſ	1 1	1 1	1 1 1	1 1	1 1	f 1	1 1	1 1
j.	56.51	3 4 18 +	3.5 * 16 +	- 54 120	-9.81)	= 106.9	13 kpa.	
	SP = 6.	+ 06	s 131·5	7 kpa.				
			3.3	Service Service				
						40		



	5ep#	A:(KN/m)	Xi (m)	Aiti (GN.m/m)
	1	21-3 *12	12/256	1533.6
<u></u>	2	s 255.6 0.5* 36.21 *5	7+5	784.55
9	3	= 90.525 36.21 × 7	7	2869
3	4	= 253.47 0.5 * 33.36 * 7	7 ?	272.44
2 2	5	5 116.76 015 * 68.67 * 7	3 7 8	560.8
3		5 240 . 43	3	
3	٤	956.62 KN/m		4038.2 KN.m/m
9-	1 1	1 1 1 1	1 1 1	Five Apple

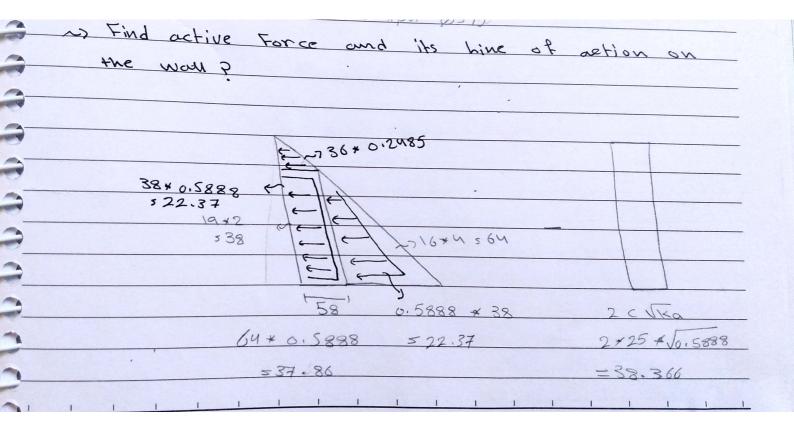
5 A 1 * 1 PH =956.62 E Ai X = 4.22 cin slides p. 7 100 0,474100 100 73.549.81 100

19-11-2019
Rankine theory
Kas 1-sind active
Kps 1 passive
Image with the same of the sam
60 s Ka by - 20 Tra Astive
6p5 kp & +2c TKP Passive Zcs 2c 8 KFP.
if back fill soil Inclined by & from h
Ka 5 COSX - (COS 2X - COS 2X - COS 2 0
Cos x + √cos 2x - cos² €
Ex: Clay



Page 194-11			
1 1 1 1	1 1 1	1 1 1	1 1 1 1
	in \$ 1-5in		
1+5	ind 1+sin	(0	
Sh ska	6 - 2 c Jkg		
	A;(KN/M)	x; (m)	Us Aixi(KN/m.m
1 1/2	42.245 *-1	613	253. 46
	5 126 - 73		
	7-1034-6	612	-120.311
	5 -402.75	1	X 9 3/2 1 1
3 1,	: S8-8 + 6	613	357.16
	176,58		
5	-99,42		- 601.57
X 5 2	41 Xi = -601.57	5 6.05 m.	
	=262.5	8	
~ IP tens	ile crosets o	occure:	
2 = 2 C 8' JKa	5 2 *40	5 9,53	
8' VKa	(19.81-9.81)	0.704	

3) IP GIN drow down & SIZKN/m² Find total active throst after tensile craeks. P
Zc = 2*40 = 5.61 m.
17 /01704
0.4
(Ka by -2 C V Ka)
(0,704 * 17 * 6 - 2 * 40 Vo. 704) 5 4. 884 kpa.
pactive 5 1 (4.68 40.4)
Ex: 2m I sand 85 19 KN/m Ø 5 37° clay
6m 8516 KN/m² C5 25 Kpa Ø515°



1	1	1 1 1	1 1 1	-	1 1	1 1	
-	kajs	1-sing	1-51N37 1+51N37	5	0.2485	Is point	
	Kaz	s 1-sind 5	11-5in15 145in15	5 0	515888		
	icg#	Aick N/m	×iu	m J		Ms Ai Xi	(KN/M)·M
	1	1 *9.44 × 2		+ 2/3		44.05	
	2	22.37 * 4	The second second	12		178.96	
	3	5 89 · W3 	4	1/3		100:48	
	4	575.36 -38.366*4	ч	/2		306.92	
	111111111111111111111111111111111111111	111- 9 a 20		And the state of t		S PANS	
				- 400			
					7-1-1	1000000	

			21-11-2019
1 1 1		1 1 1	1 1 1 1 1 1
Ex:	Find Total force	applied an	the wall in case
of a	t rest , Rankine		
color	nb in both acti		
801:	Richeston -	716	
•			c' 5 10 kpa
	-sing" s1 -sin 30	50.45 6m	Ø' 5 33°
Po5.	1 X H2 Ko		5520
. 2	1 * 18 * 62 * 0.45 51	45.8	8518KN/m
Romt	1 1 - 5 2	× - cos 2 Ø	
) Kos	COS X + V COS2		
2			
5		as 210 - cas 233	5 0.307
2	cos 10 + Je	cos ² /0 - cos ² 33	
2			X 5 10 H 13
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2 possi	1e Kps cos 10 · Co	0510 - Jas 10 - Cos	33 5 3.15
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7 Sin (B-S) Sin (X+13) 7
$-5in^2(90+33)$
$\frac{1}{\sin^2 90} \sin(90-22) \left[1 + \left[\sin(33+22) \sin(33-10) \right]^2 \right]$
$\sqrt{\sin(90-22)}\sin(10+90) -$
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اللجنة الأكاديمية للهندسة المدنية

دفتر

فاونديشن

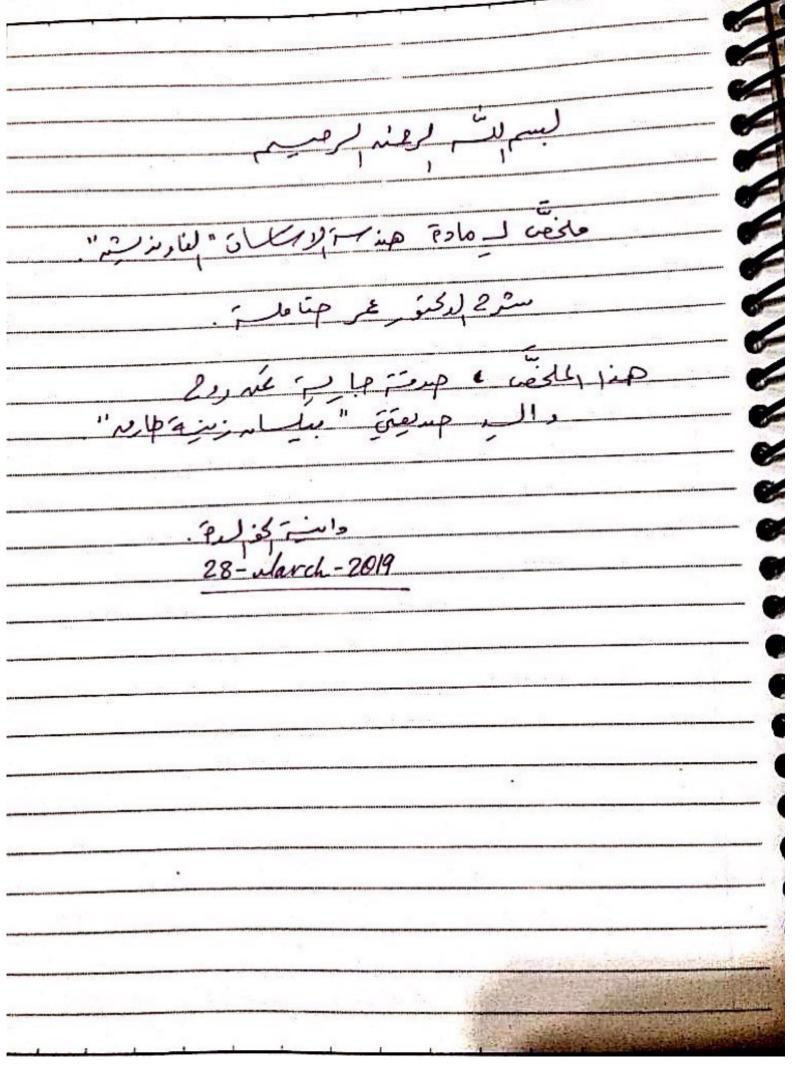
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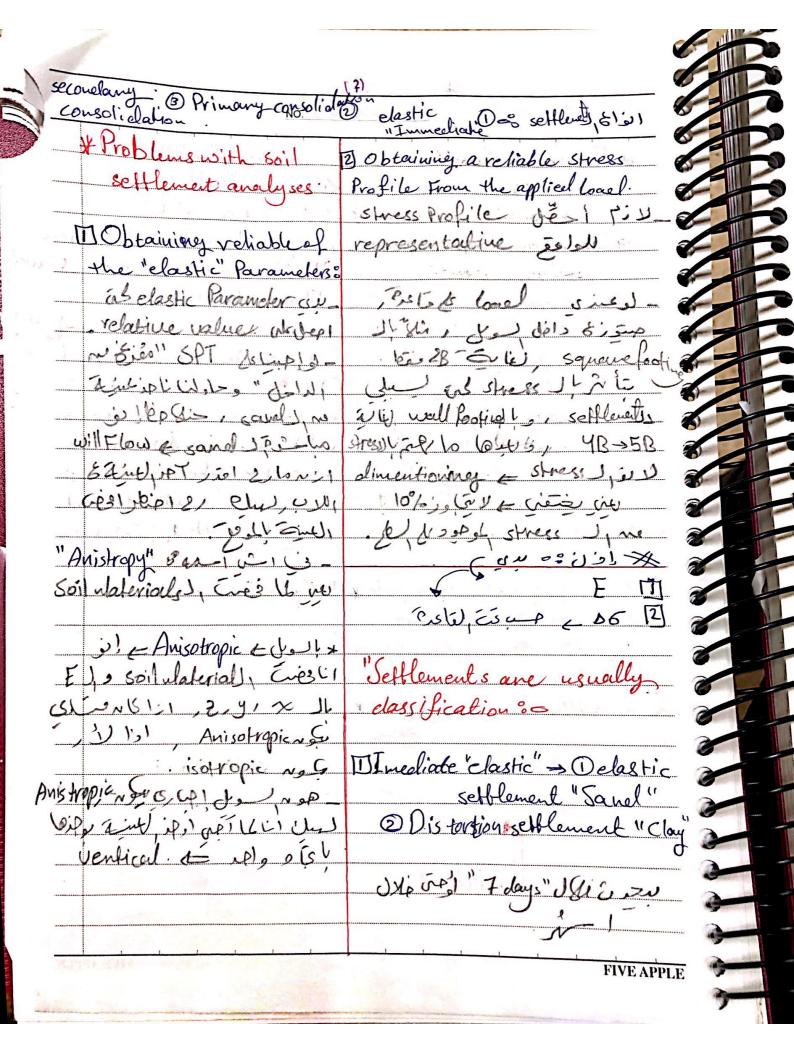
Contact us:





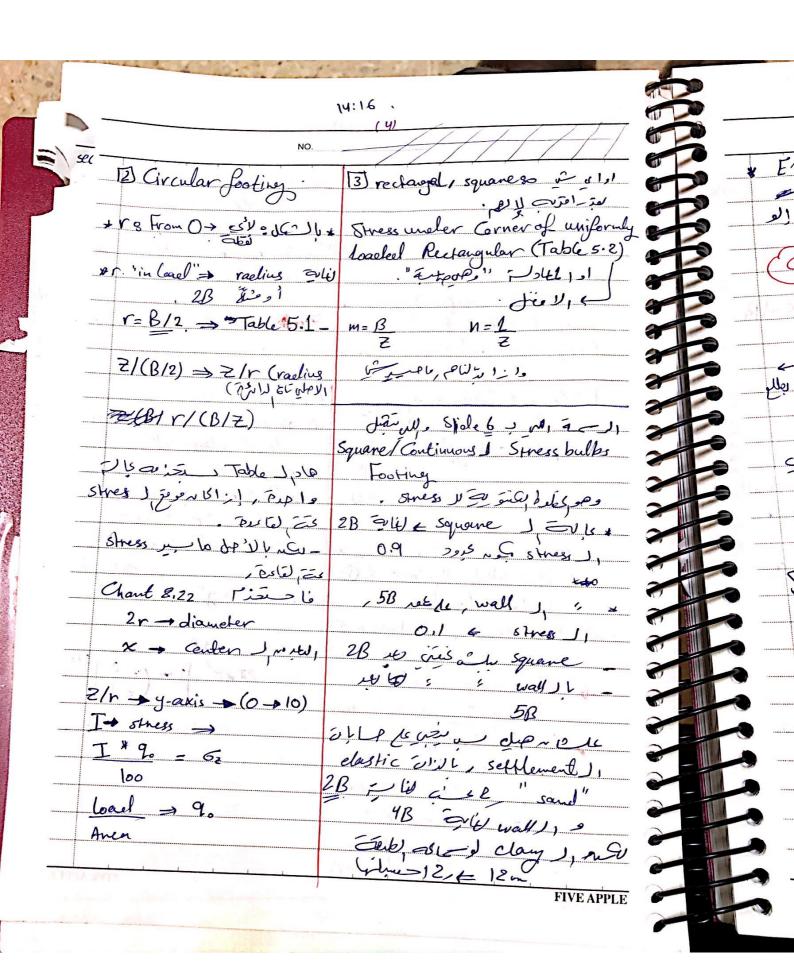
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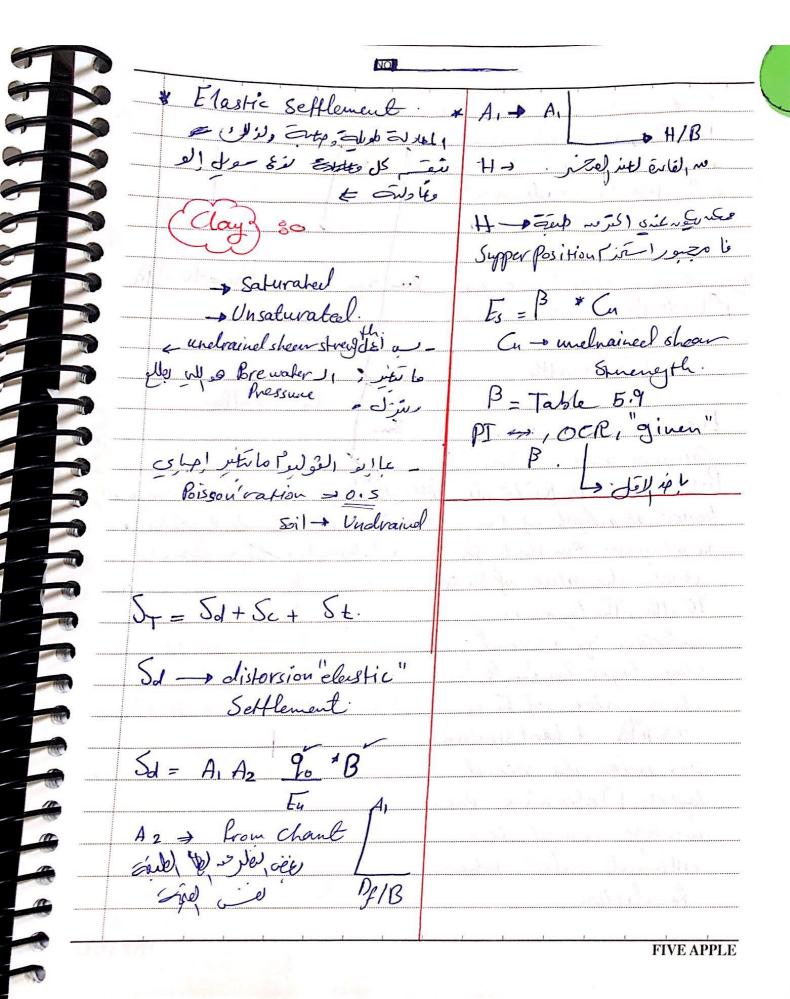


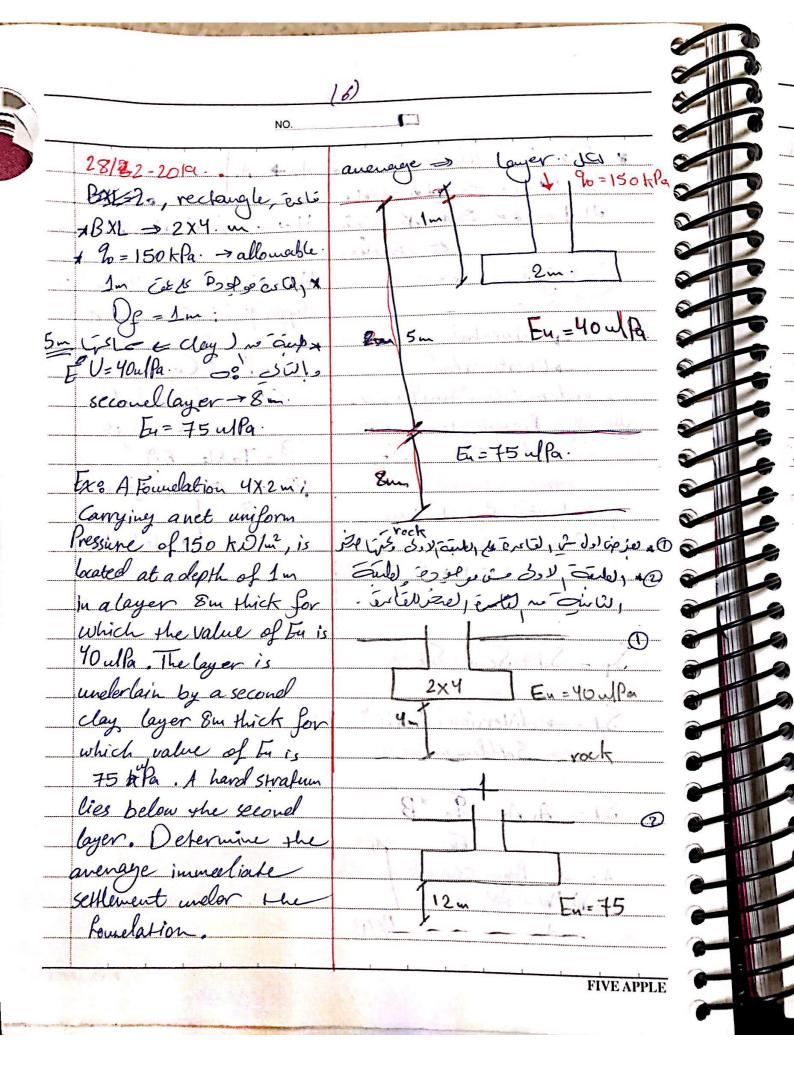


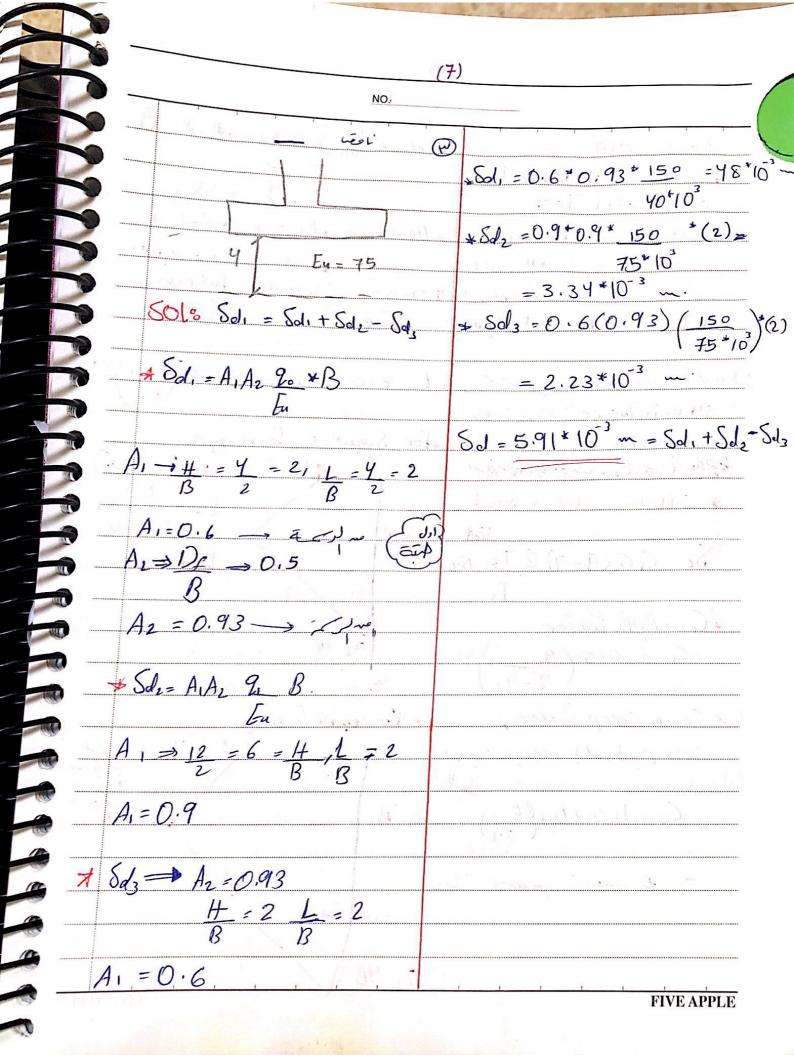
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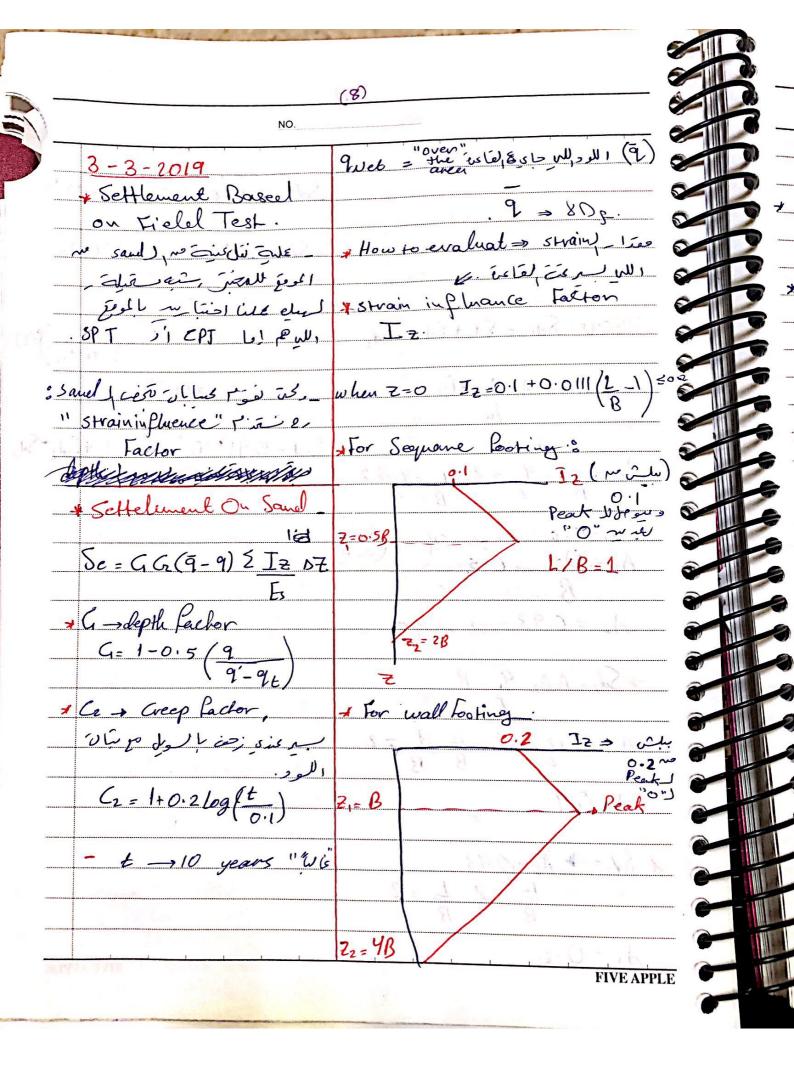
FIVE APPLE

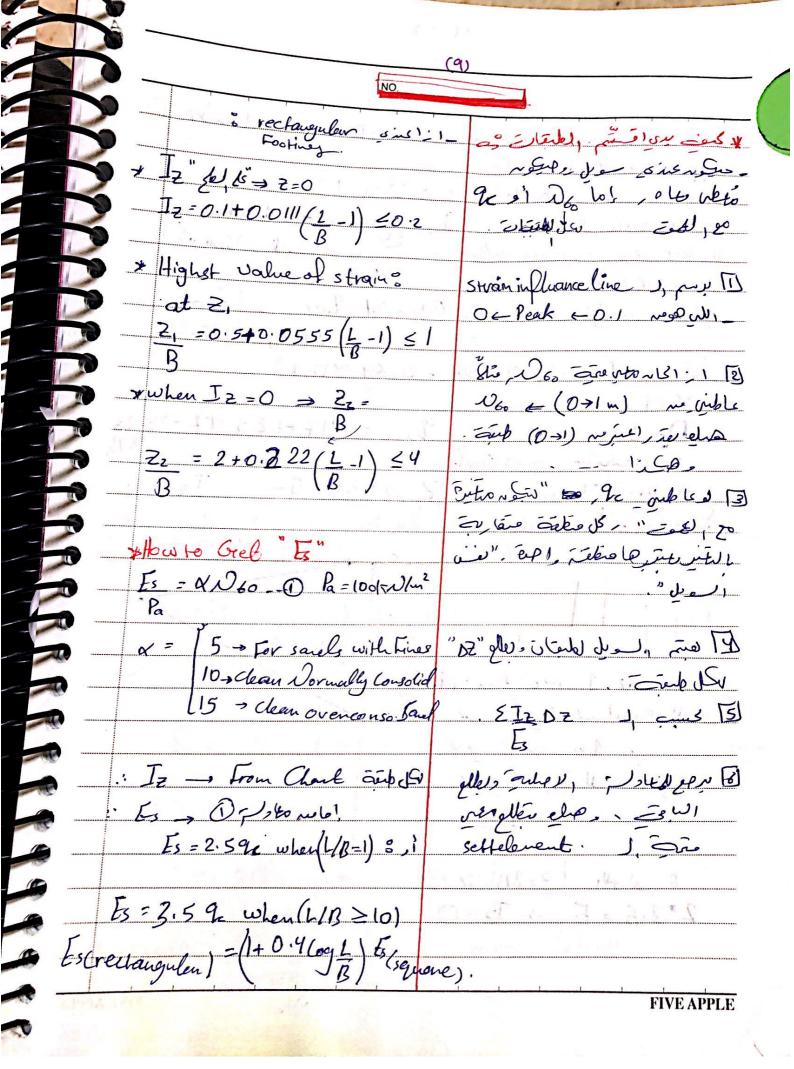










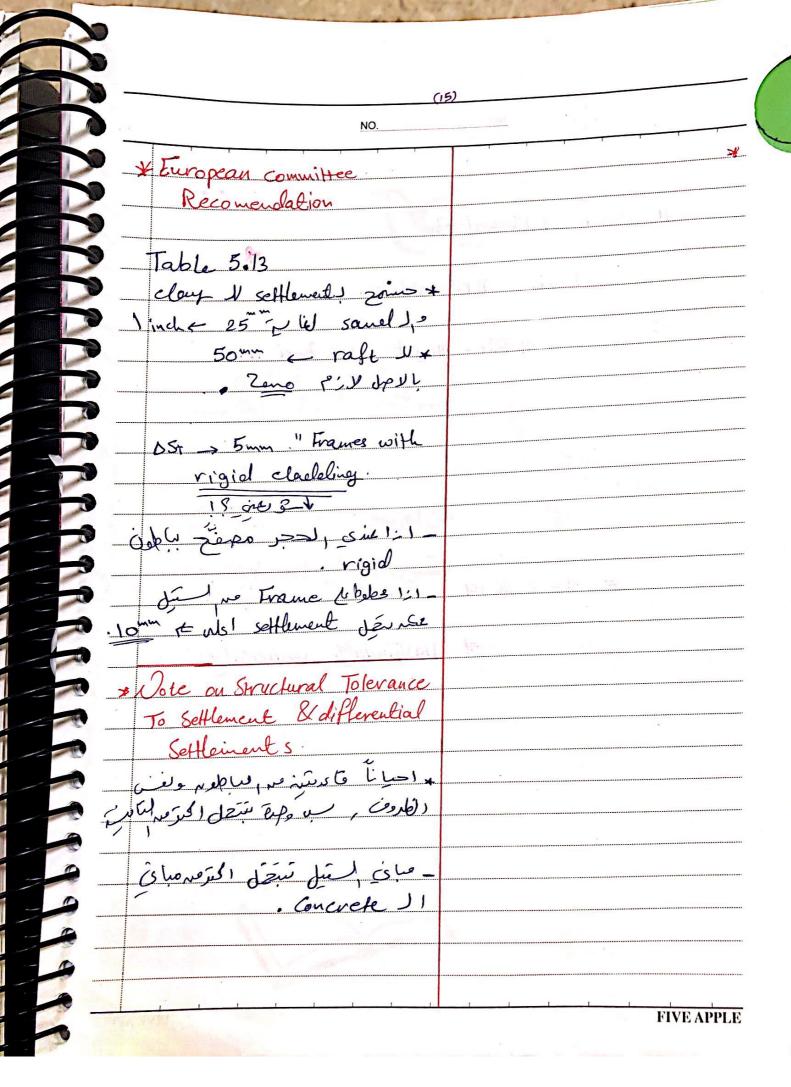


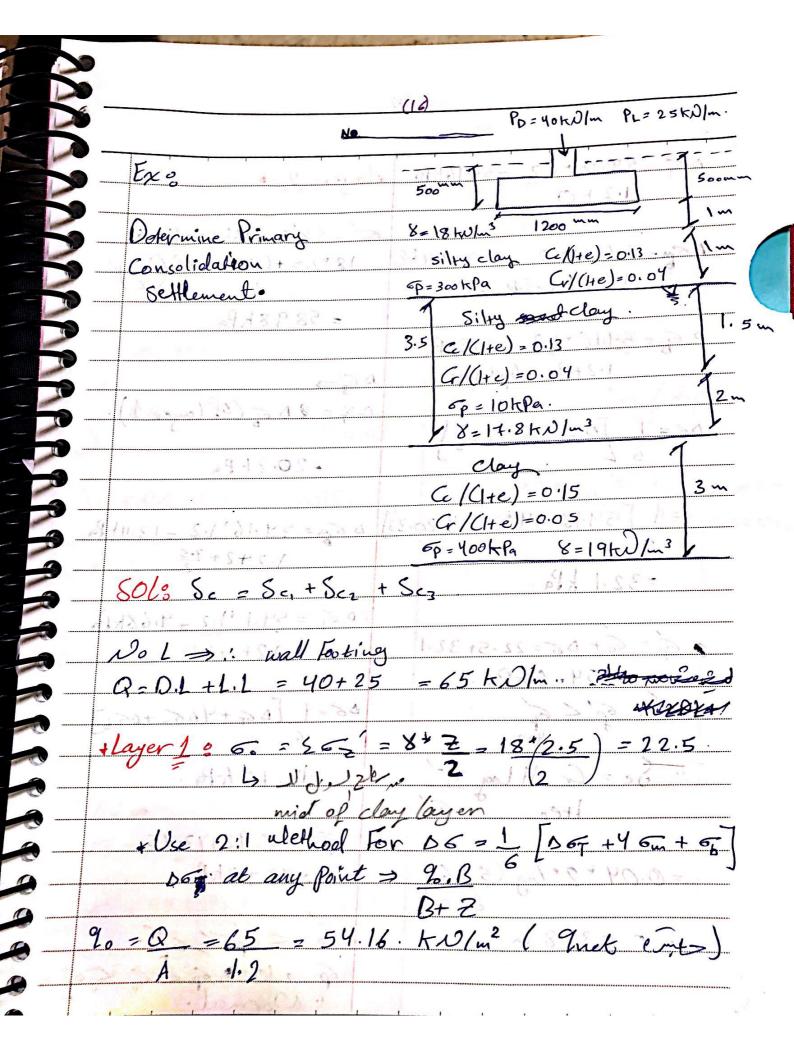
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of unit weight 17 kD/m3.	0.5+0.1 Inet = 150		
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3018 9net = 9-9=150	=0.69~0.7.		
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1) p=1 in a dis	9/2m = 1+17+1.25 +17=38.25		
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	FIVE APPLE		

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1+e0 60)	Bagic Term 80
11. 6. < 6, < 6,	
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Sca Co Hlos 6 1. C Houle	(a)
1+e0 60 1+e	Go) Ca -> Compression inelex
Pare J. in Comme	eo → void ratio.
"Fielel Compression Curu	u 4 → Hight of Clay layer
e and is an allow	6 → initial ovenburbolen stress
2 1 Company	6/2 50 + Do = Final effective
· (c) 21. 4	Stress
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)	to time in which secondary gettle to Primary consolidation ended.	الم
)	to - Primary consolidation ended.	, A B CDE sine
	Ho The Hight of soil layer	هرای بعواند از ا هرطبی طینزل
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	ity sit is, consolidation as sono +	TAATI
	lope iel Cis, time I go dial Il	into 1 jet by - les les
	"tp" har rollie viet, will	1 1 P30 3 3 2 3 VI CO 3 2
	(time to end Primary consoli.)	total bein
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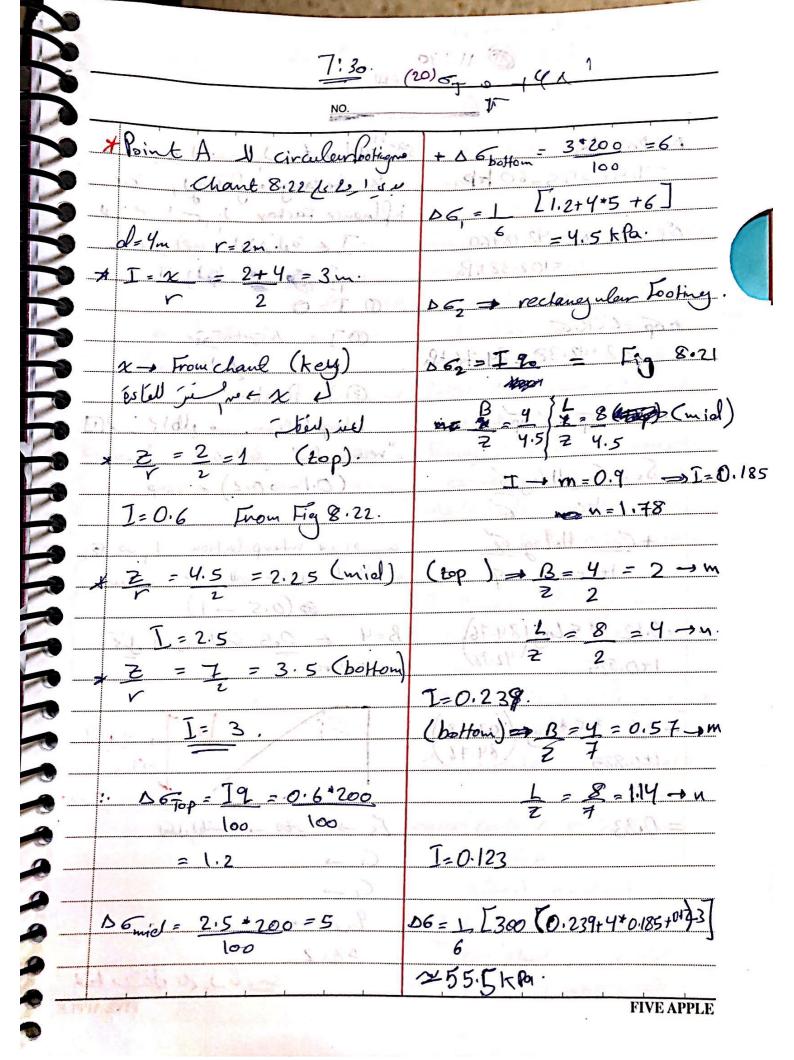
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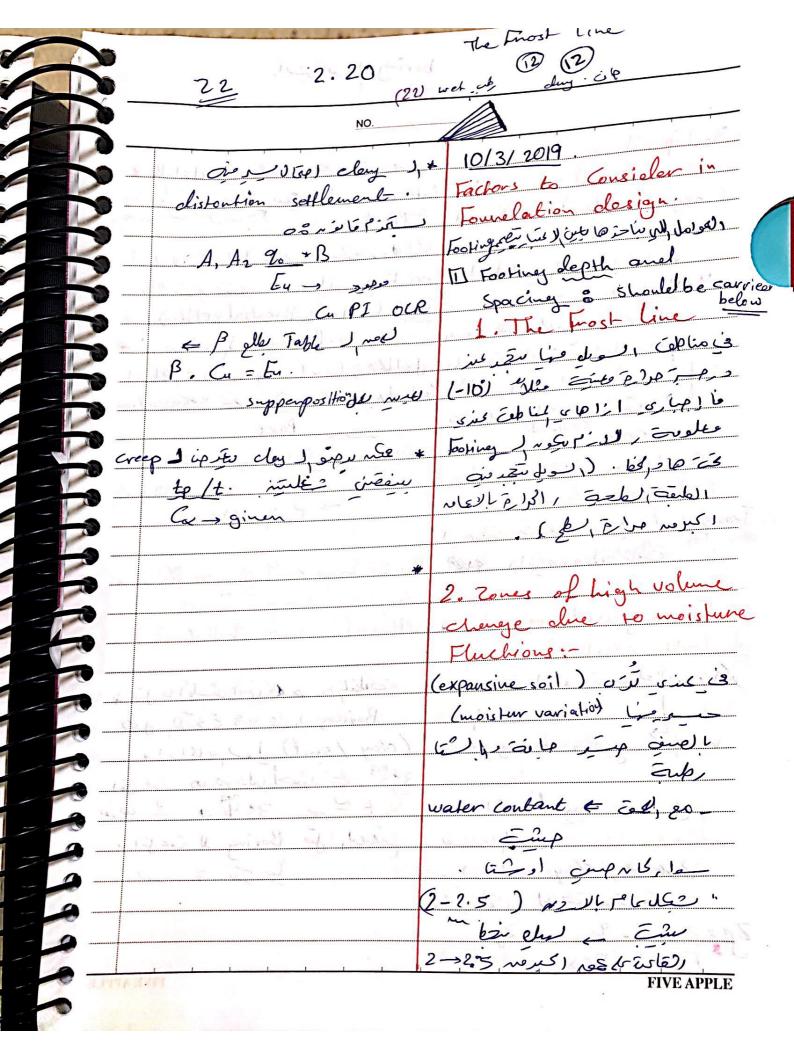


(1,7)	
NO.	<u>av</u>
DG = 54.16+1.2 = 54.16+Pa.	xlayer 2 →
X - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	50 - 58'Z → 18+25+6+8-
Dom = 54.16 1.2 = 29.54 HB	the state of the s
1.2+1 (ābaie)	18+2.5+(17.18-9.81)(3.5)
1 511 mars 2 clay	= 58.98hPa.
D 6 = 54.16 + 1.2 = 20.3 kg.	
$1.2+2 \rightarrow depth $, ds	D6, ⇒
1	DE = 2 D & (Of layer 1).
DG= 1 [DG+46m+6]	
	= 20.3 la Pa.
= 1 [54.16 +4 +29.54+20.33]	
1 6 116-4 (8-134c) 90	8
=32.1 kPa.	1.2+2+3.5
<u>, 36</u>	PGb = 54.1 4.2 - 9.68 kPa.
= 6j = 60+ D6 = 22.5+32.1	1.2+2+3.5
54.6 kpa.	0-01-11 = 40+25
60 < 6/6	D6=1 [D6+4D6m+D6]
300- 15 400 F 48 =	6 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
" Se= Cr Hlog Ep'	=13.75 KB.
lteo 66'	
= 450 P4 = 01 1 = 30 m	6p= 58.98+13.75
= 0.04 + 2 + log (54.6) 22.5)	=72,73 h.Ra.
22.5)	
= 0.0308 m.	5 6 5 6 6
	670000000000000000000000000000000000000
	" Wormal.
	1 Corman.

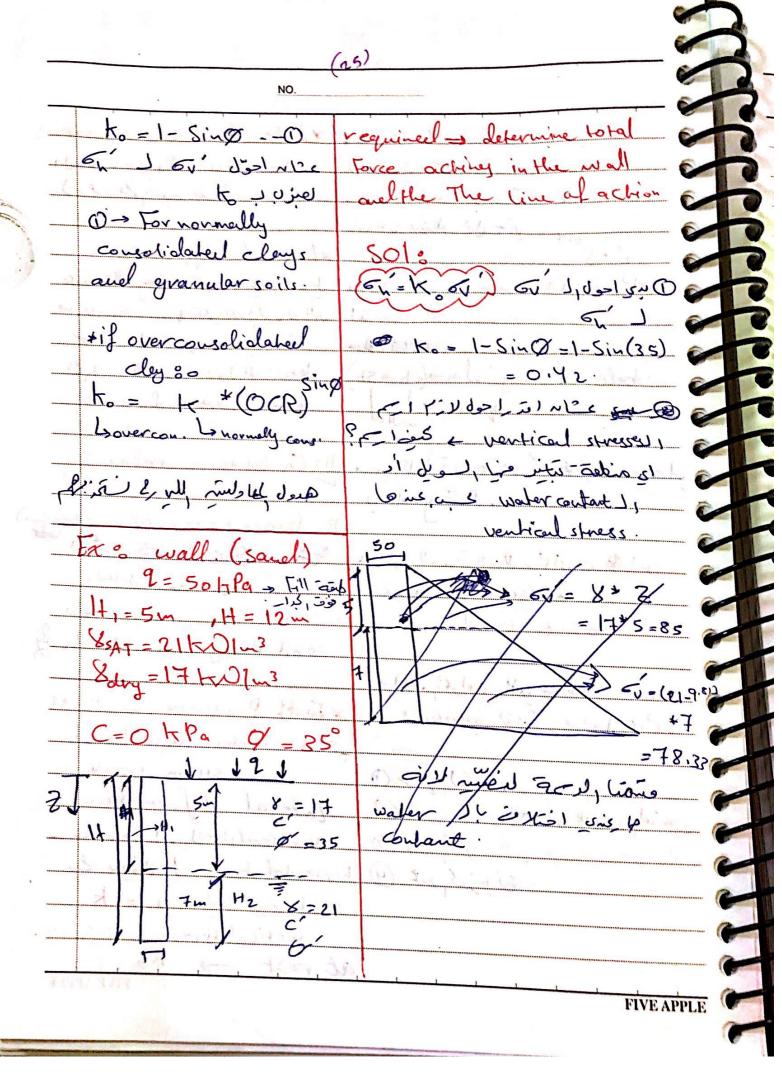
(101)	(18)
NO.	ым V Русу - 5 - 4
Sy=90/4/69/60/	D6=1 [9.68+4*7.92+6.7]
400 004	_ 8.01
Set Co H log (GP)	806p' = 8.01+83.95=91.96
=10:04+3:5 *1ne+65 X	6 4 6 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
(158.98)	400 H Log (BR)
= 76.13 -3.5 (ag (+2.+3)	140 (60)
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+(19-9.81)* 3	and Market State Colored
2	<u> </u>
=83.95 KPai	8/1/20/00/00/00/00/00/00
06= 3000000	1/ /A / 2 / 20 / 2//
of = 06 (layer?) = 9.68 kg.	Tarl to the same
001	1 als is the Reside Poly
6n = 54.16 ×1.2 -7.92	7 12
1.2+2+3.5+(3/2)	ci-12 1 200 Commence to the
6 = 54.16 × 1.2 _ 6.7	
1,2+2+3.5,+3	

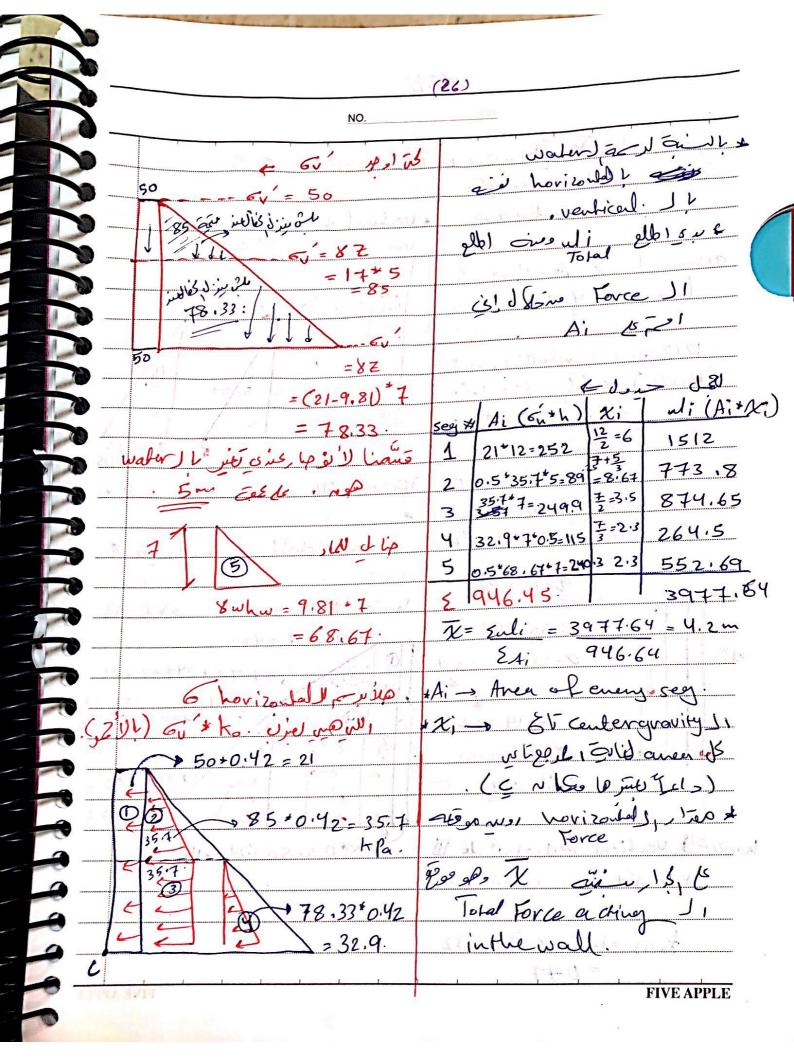


FIVE APPLE



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FISSTA FSX	Zf=2c-90 €.Zf	******
FIVE APPLE	F.S. & JA, FS, X	********
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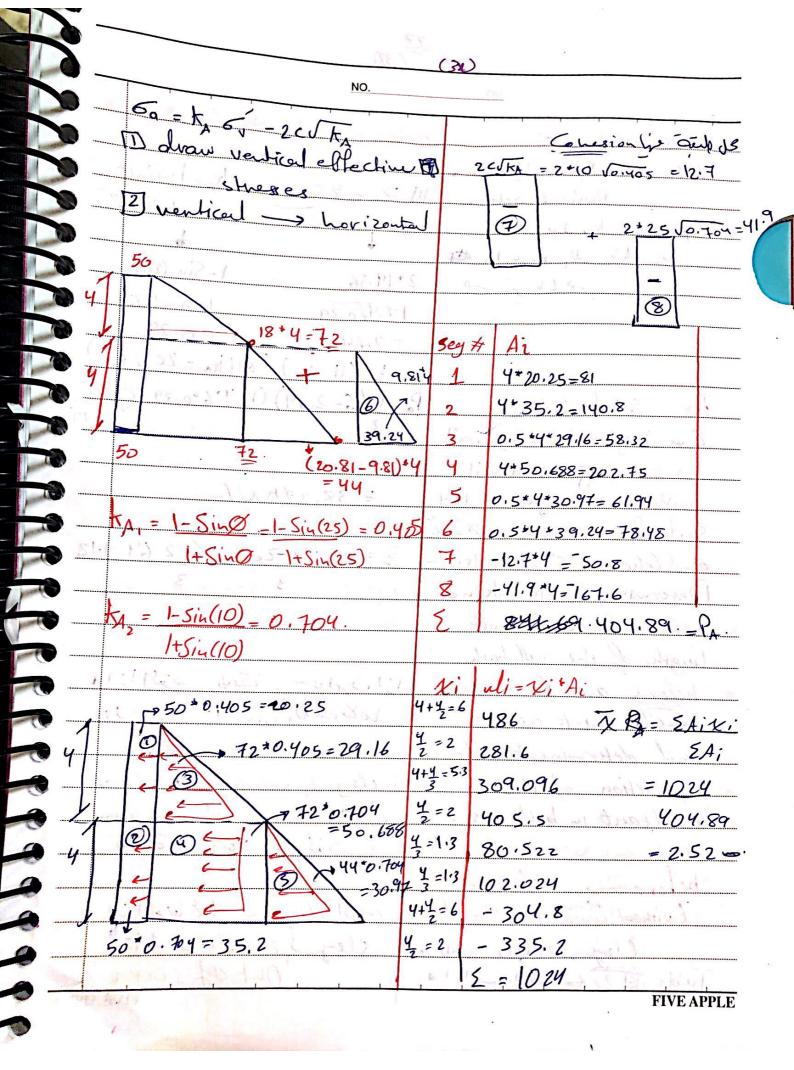




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	NO.	1304		
See	Ai (KO/m)	Xi(m)	ul= X; *A;	
1	3.5*47=164.5	3.5+ 3.5 2 = 5.25	863.625	
2	3.5*50=145	3.5 = 1.75	306.25	
3	0.5*27.14+3.5=47.5	3.5+3.5-4.67	221.825	
4	28.87+3.5=101.045	3.5 = 1.75	176.83	
5	0.5 * 16.52 * 3.5 = 28.91	3:5 = 1.167	33.73.	
6	0.5 43 4.33543.5 = 60.08		70.11.	
5	571.035.	1 June	1672.37.	5./
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FIVE APPLE

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-	active Latte ins de ne	Slide 25 00
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	را وزار المالي 36 ألك	Zenos up) is , G zk, E Jeps
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	at rest $\rightarrow 0.5$	6A = 0 - Soil up nau
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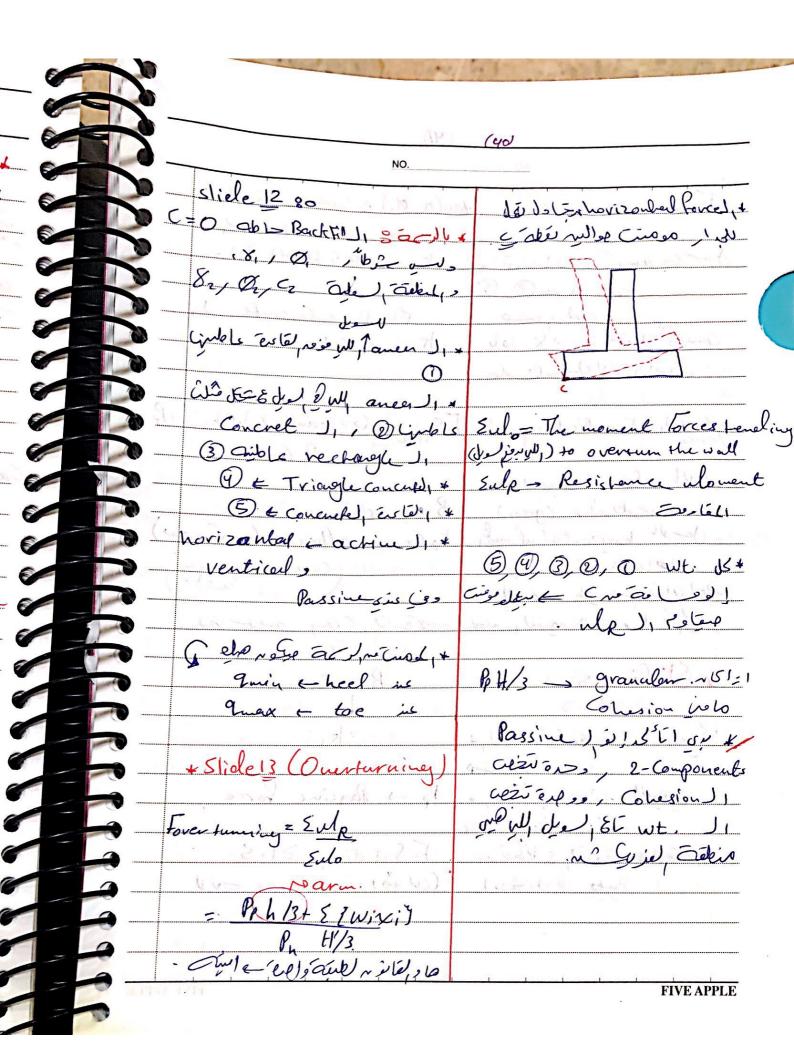
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	17.4/0.39	1+ Sin (26)	
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10.50 (0.9)	1/2 (H-2c)	(81+10 - 2c'sta)	
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is to support a soil	All the transform	. 577	6
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and Cohesion C'=14.36 kn/1	m2 3=1/= H=	2c _ 6-2.64 =1.12	
Defermine the Rankine	3	3	🗟
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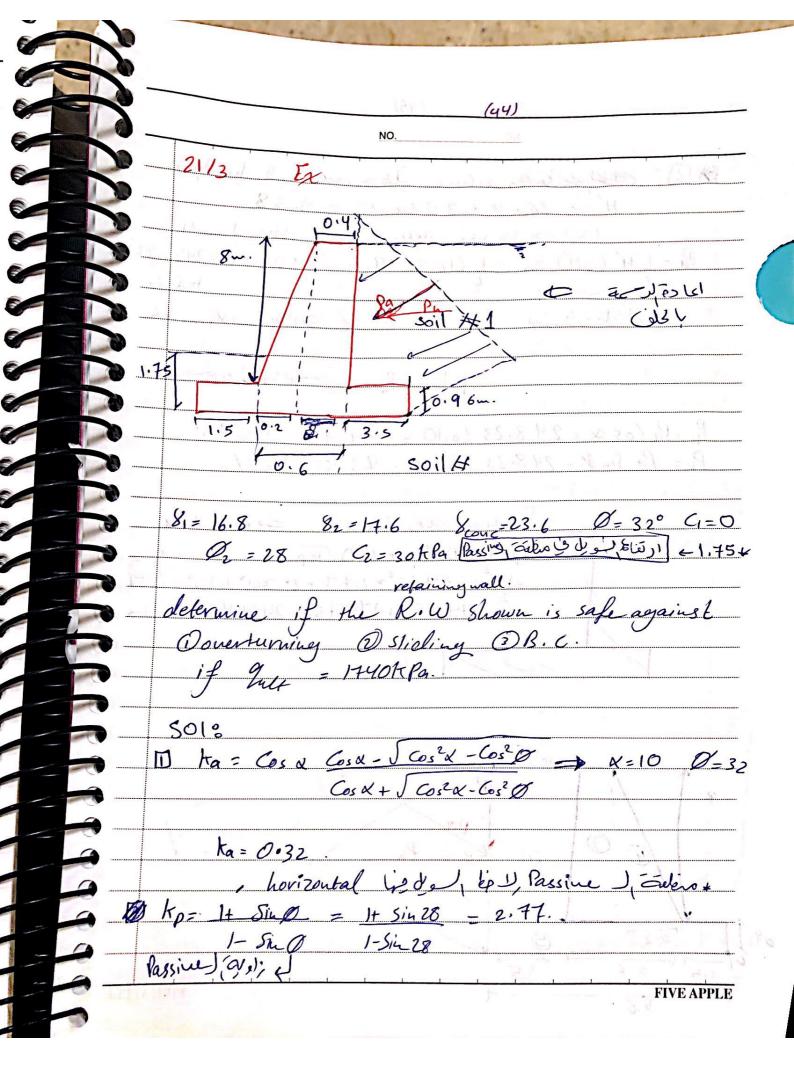


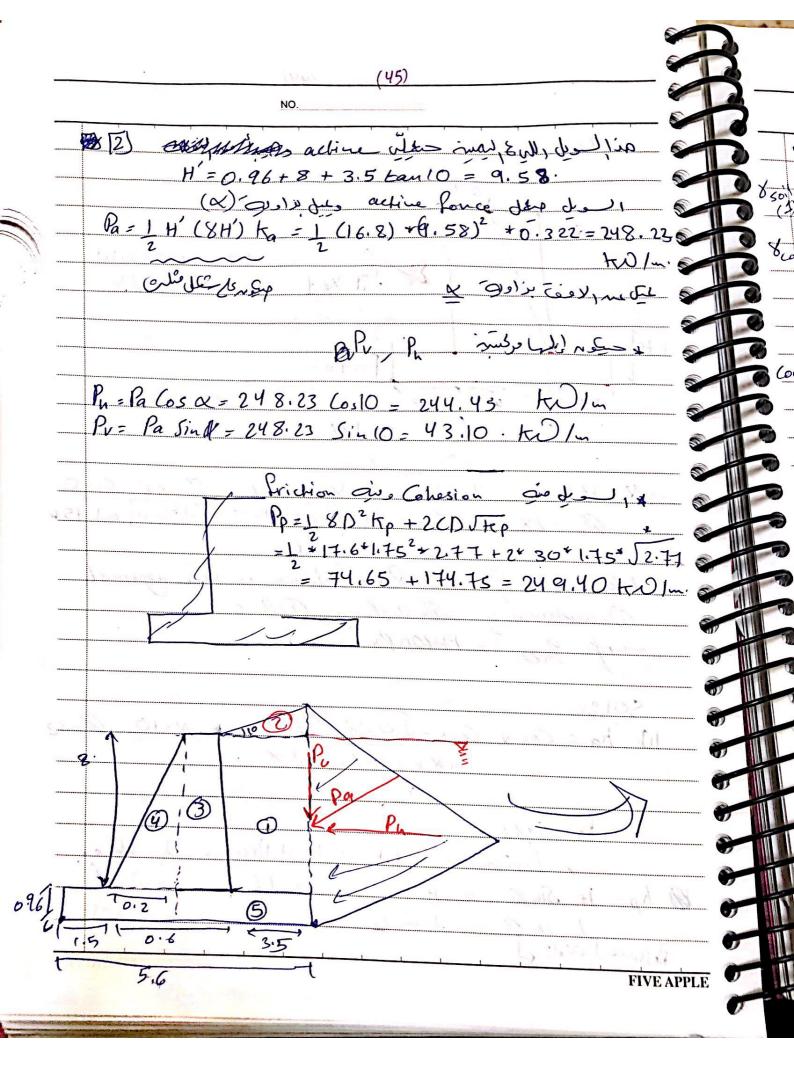
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