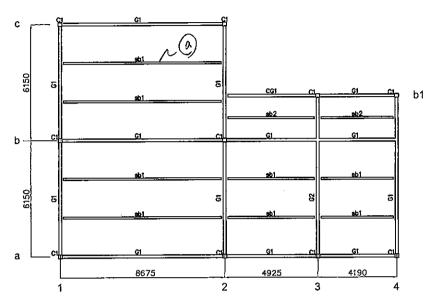
Attachment-11 Structure Examination Document

STELC	O BUILDING
1.	The design of the roof installation steel
	frame for PV panel · · · · · · · SB-1
2.	The confirmation of the existent
•	building safety · · · · · · · SB-31
Kalaafa	anu School
Thaaju	ddeen School
New Se	condary School for Girls
1.	The examination of support frame · · · · · · · KTN-8
2.	The examination of the existent member · · · · · KTN-9
3.	As-Build DWG KTN-39
4.	Kalaafaanu School Panel Foundation · · · · · · · KTN-90
Center	for Social Education
1.	As-Build DWG SC-1
2.	The examination of the existent member · · · · · SC-22
Preside	nt Office
1.	The examination of the existent member · · · · · PO-1
2.	As-Build DWG · · · · · · · PO-4

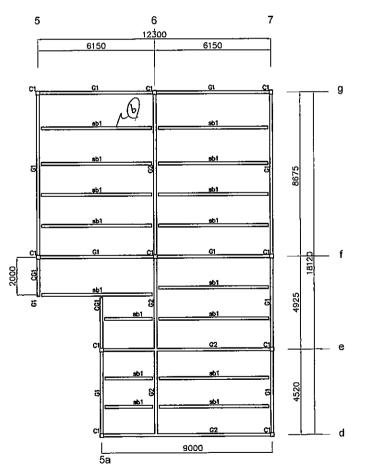
No.1.
STELCO BUILDING

- PV panel and support frame: Weight is 0.5kN/m²
- · Steel frame member is designed (for PV panel)
- · It is installed after foundation is made on the RC floor of the roof.
- · Additional weight is added, and the member of the roof is examined.
- There is no problem in the safety because additional weight is 0.5kN/m² with the main structure member.

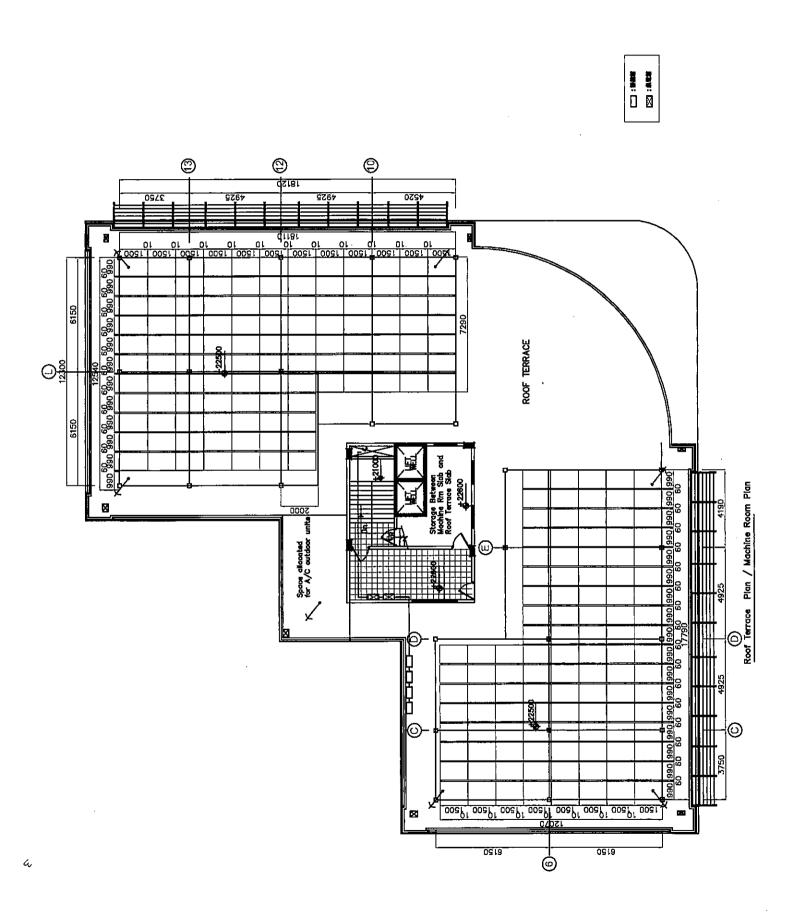
1. 屋上取り付け全线骨支持攀台の設計 The design of the roof installation steel



PLAN OF A-STRUCTORE



PLAN OF B-STRUCTURE



(Sub- Beam >.

pead. Load.

pv. Parel + panel France. 500 1/m o

Solf weight. 500 1/m

Type - @

$$W = 0.5 \times 2.7^{m} + 0.5 = 7.55 \text{ km/m}$$

$$1 = 8.700$$

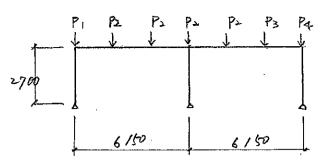
$$M = 1/8 \times 1.55 \times 8.7^{-} = 14.7 \text{ km/m}$$

$$Q = 1/2 \times 1.55 \times 8.7^{-} = 6.8 \text{ km}$$

$$\frac{H-194\times150\times6\times9}{fb} = \frac{8900\times150\times9}{8700\times194} = 71\% - 71\%$$

Type-D $W = 0.5^{ky/-} \times 1.735^{m} + 0.5 = 1.37^{ky/-}$ $M = \frac{1}{8} \times 1.37 \times 6.15^{-} + 6.5^{ky/-} \times 1.57^{ky/-}$ $M = \frac{1}{8} \times 1.37 \times 6.15^{-} + 6.5^{ky/-} \times 1.540^{ky/-}$ $M = \frac{1}{12} \times 1.37 \times 6.15^{-} + 6.5^{ky/-} \times 1.540^{ky/-} \times 1.540^{ky/-}$ $M = \frac{1}{12} \times 1.37 \times 6.15^{-} + \frac{1}{12} \times 1.540^{ky/-} \times 1.540^{k$

<Main Frame >



A-STRUCTURE 2

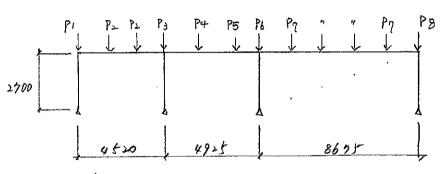
LOAD. Panel + frame. 500 % ~ 7 1.5 kg/m.

P1 = 15 x (8.676+ 292+) x1/2 x 1,025" = 10,5 KN

P2 = " × 2.05" = 2/. W

P3=1,5 x 2.05 x 4.4= 13.6 th

P4 = 1.5 x 1025 x 4.4 = 6.8

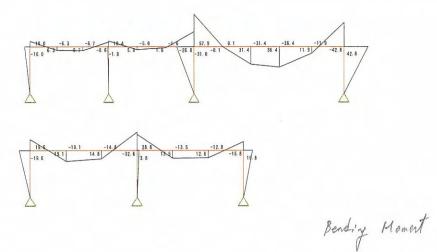


B-STRUETURE

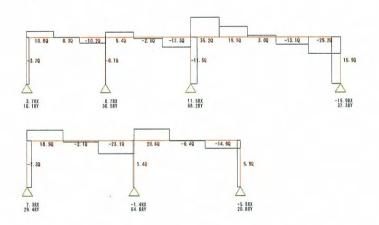
20AD. 1.5 KN/2.

 $P_1 = 1.5 \times 4.6^{m} \times 0.76^{m} = 5.3^{kN}$ $P_2 = 1.5 \times 4.6^{m} \times 1.55^{n} = 10.5^{kN}$ $P_3 = 1.5 \times 4.6^{m} \times 1.58^{m} = 11.0^{10N}$ $P_4 = 1.5 \times 4.6^{m} \times 1.65^{n} = 11.4^{10N}$ $P_5 = 1.5 \times 6.15 \times 1.65^{n} = 15.3^{10N}$

$$P6 = 1.5 \times 6.15 \times 1.69^{m} = 15.6^{km}$$
 $P7 = 11 \times 1.735^{m} = 16.1^{kN}$
 $P8 = 11 \times 0.87 = 8.1^{kN}$



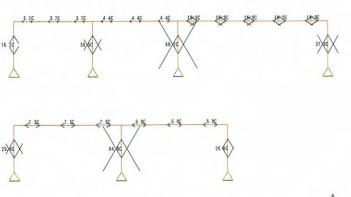
応力図 [DL]



Skear

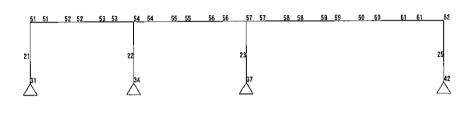
応力図 [DL]

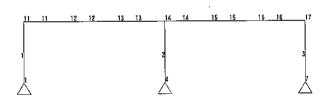
0



Axial

** UNION SYSTEM ** 3.37 2009/06/11 15:00 PAGE- 1





【基本事項・計算条件】

・出力単位

: S 1 単位

【節点座標】 [m]

No	X座標	Y座標	No	X 座標	Y座標	No	X座標	Y座標
1 4 7 11 12	0. 000 6. 150 12. 300 0. 000 2. 050	0. 000 0. 000 0. 000 2. 700 2. 700	31 34 37 42 51	0. 000 4. 520 9. 445 18. 120 0. 000	6. 000 6. 000 6. 000 6. 000 8. 700	57 58 59 60 61	9. 445 11. 085 12. 730 14. 370 16. 245	8. 700 8. 700 8. 700 8. 700 8. 700
13 14 15 16 17	4. 100 6. 150 8. 200 10. 250 12. 300	2. 700 2. 700 2. 700 2. 700 2. 700	52 53 54 55 56	1. 506 3. 014 4. 520 6. 160 7. 805	8. 700 8. 700 8. 700 8. 700 8. 700	62	18. 120	8. 700

【支点データ】 [kN/cm] [kNm/rad] (Oは自由、1は拘束を表します。)

No	/ 	節点No. <2>	\(\)	X 方向パネ	Y方向バネ	回転パネ
1 2 3	1 31 42	3 ⁴ 3 ⁴	7 37	1. 0 1. 0 1. 0	1. 0 1. 0 1. 0	0. 0 0. 0 0. 0

【節点同一変位】

---- 入力値なし ----

【材質】 [kN/mm2]

No E G 1 205.00 79.00

【断面性能】

No A [cm2] 1 [cm4] κ 断面名 2625 3. 61 H-194*150*6*9 3566 2. 00 □-200*200*8 r20

【部材配置】 (断面No. が負値の材は、伸縮しない材を	表します。)	ı
-------------------------------	--------	---

/節点No/ /結合No//剛域 [cm]/ No i端 j端 断面No 材質No i端 j端 i端 j端	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
【荷重ケース 1】DL	
/──節点, 部材No/ No 〈1〉 〈2〉 〈3〉 TYPE 方向	D.6
	P6
1 11 0 0.000kN -10.500kN 0.000kNm 2 12 ~ 15 0 0.000kN -21.000kN 0.000kNm 3 16 0 0.000kN -13.600kN 0.000kNm 4 17 0 0.000kN -6.800kN 0.000kNm 5 51 0 0.000kN -5.300kN 0.000kNm	
6 52 53 0 0.000kN -10.500kN 0.000kNm 7 54 0 0.000kN -11.000kN 0.000kNm 8 55 0 0.000kN -11.400kN 0.000kNm 9 56 0 0.000kN -15.300kN 0.000kNm 10 57 0 0.000kN -15.600kN 0.000kNm	
11 58 ~ 61 0 0.000kN -16.100kN 0.000kNm 12 62 0 0.000kN -8.100kN 0.000kNm	
【支点反力】 ※※ 荷重ケース 1 ※※ DL	
が点No Rx [kN] Ry [kN] Rm [kNm] 節点No Rx [kN] Ry [kN] Rm [kNm]	

節点No	Rx [kN]	Ry [kN]	Rm [kNm]	節点No	Rx [kN]	Ry [kN]	Rm [kNm]
1 4 7 31 34	7. 3 -1. 4 -5. 9 3. 7 0. 7	29. 4 64. 8 20. 8 16. 1 30. 5	0. 0 0. 0 0. 0 0. 0 0. 0	37 42	11. 5 -15. 9	68. 2 37. 3	0. 0 0. 0
				合計	0. 0	267. 0	0. 0

【節点変位】

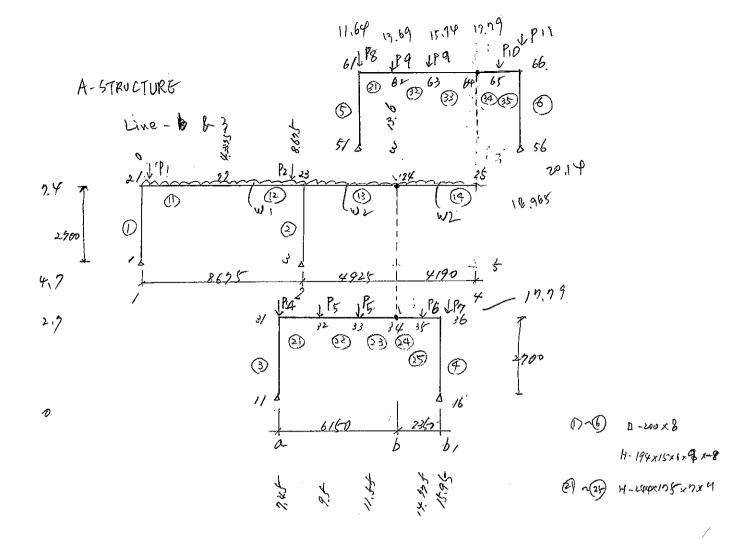
$\times \times$	荷重ケース	1	$\times \times$	DL
W.W.	加重ノーへ		7 7	אנע

節点No	δx [cm]	δy [cm]	θ [rad]	節点No	δx [cm]	δy [cm]	θ [rad]
1	0. 000000	0. 000000	0. 00087968	52	-0. 224480	-0. 183477	-0. 00094818
4	0. 000000	0. 000000	-0. 00050488	53	-0. 225197	-0. 191304	0. 00087447
7	0. 000000	0. 000000	-0. 00120866	54	-0. 225913	-0. 006789	0. 00061679
11	0. 080401	-0. 006534	-0. 00274594	55	-0. 226829	-0. 054870	-0. 00019961
12	0. 078493	-0. 878471	-0. 00284967	56	-0. 227749	0. 013660	0. 00081253
13	0. 076585	-0. 768492	0. 00359741	57	-0. 228666	-0. 015157	-0. 00302428
14	0. 074677	-0. 014396	0. 00019809	58	-0. 231996	-1. 544899	-0. 01185222
15	0. 073139	-0. 598397	-0. 00271426	59	-0. 235337	-3. 270676	-0. 00706816
16	0. 071600	-0. 635869	0. 00229377	60	-0. 238668	-3. 610155	0. 00325325
17	0. 070062	-0. 004615	0. 00171400	61	-0. 242476	-2. 050118	0. 01165101
31 34 37 42 51	0. 000000 0. 000000 0. 000000 0. 000000 -0. 223764	0. 000000 0. 000000 0. 000000 0. 000000 -0. 003584	0. 00143015 0. 00094249 0. 00270880 -0. 00165690 -0. 00042165	62	-0. 246284	-0. 008286	0. 00625369

【部材応力】

※※ 荷重ケース 1 ※※ DL

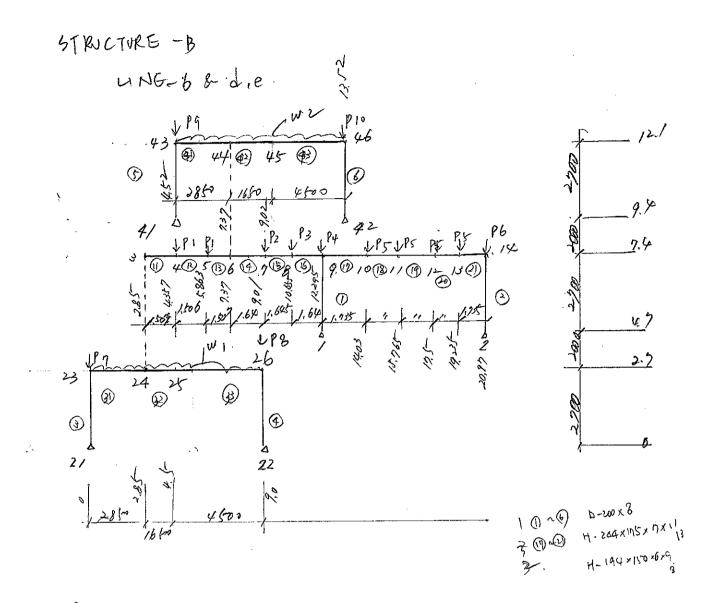
部材No	/- 節点	īNo -/	/	M [kNm]	/	/ Q [kN]	/	/ N [kN]	/
	i 端	j端	i 端	中央	j 端	ì 端	j端	i端	j 端
1	1	11	0. 0	-9. 8	-19. 6	7. 3	7. 3	29. 4	-29. 4
2	4	14	0. 0	1. 9	3. 8	1. 4	-1. 4	64. 8	-64. 8
3	7	17	0. 0	7. 9	15. 8	5. 9	-5. 9	20. 8	-20. 8
11	11	12	19. 6	-0. 3	19. 1	18. 9	-18. 9	7. 3	-7. 3
12	12	13	-19. 1	16. 9	14. 8	2. 1	2. 1	7. 3	-7. 3
13	13	14	-14. 8	-8. 9	-32. 6	-23. 1	23. 1	7. 3	-7. 3
14	14	15	28. 8	-7. 6	13. 5	20. 6	-20. 6	5. 9	-5. 9
15	15	16	-13. 5	13. 1	12. 8	-0. 4	0. 4	5. 9	-5. 9
16	16	17	-12. 8	-1. 5	-15. 8	-14. 0	14. 0	5. 9	-5. 9
21	31	51	0. 0	-5. 0	-10. 0	-3. 7	3. 7	16. 1	-16. 1
22	34	54	0. 0	-0. 9	-1. 8	-0. 7	0. 7	30. 5	-30. 5
23	37	57	0. 0	-15. 5	-31. 0	-11. 5	11. 5	68. 2	-68. 2
25	42	62	0. 0	21. 4	42. 8	15. 9	-15. 9	37. 3	-37. 3
51	51	52	10. 0	-1. 9	6. 3	10. 8	-10. 8	3. 7	-3. 7
52	52	53	-6. 3	6. 5	6. 7	0. 3	-0. 3	3. 7	-3. 7
53	53	54	-6. 7	-0. 9	-8. 6	-10. 2	10. 2	3. 7	-3. 7
54	54	55	10. 4	-2. 7	5. 0	9. 4	-9. 4	4. 4	-4. 4
55	55	56	-5. 0	3. 3	1. 6	-2. 0	2. 0	4. 4	-4. 4
56	56	57	-1. 6	-12. 6	-26. 8	-17. 3	17. 3	4. 4	-4. 4
57	57	58	57. 9	-29. 0	-0. 1	35. 2	-35. 2	15. 9	-15. 9
58	58	59	0. 1	15. 7	31. 4	19. 1	-19. 1	15. 9	-15. 9
59	59	60	-31. 4	33. 9	36. 4	3. 0	-3. 0	15. 9	-15. 9
60	60	61	-36. 4	24. 1	11. 9	-13. 1	13. 1	15. 9	-15. 9
61	61	62	-11. 9	-15. 5	-42. 8	-29. 2	29. 2	15. 9	-15. 9



LOAP. $1.5 \times 1.5 \times 1.05^{m} = 3.08 \times 1.00 \times$

P3 = Nothing
P4 = 1.5 x (1.025 x 4.558) = 7.1
P5 = 1.5 x 2.05 x 4.558 = 14.1
P6 = 1.5 x 1.175 x 4.558 = 8.1
Pn = 1.5 x 0.5875 x 4.568 = 4.1

P8=1.5×1.025×2.095=3.3
P9=1.5×2.05×1.05×2.095=3.3
P10=1.5×1.175×2.095=3.7
P11=1.5×0.5875×2.095=1.9



LOAP $\text{M}_{1} = 1.5 \, \text{km/}_{1} \times 6.754 = 1.14 \, \text{km/}_{1}$ $\text{P}_{1} = 1.5 \times (1.507 \times 4.5) = 10.2 \, \text{kM}$ $\text{P}_{2} = 1.5 \times 1.64 / \times 4.5 = 11.1 \, \text{km/}_{1}$ $\text{P}_{3} = 1.5 \times 1.64 / \times 6.15 = 15.2 \, \text{km/}_{1}$ $\text{P}_{4} = 1.5 \times 1.69 \times 6.15 = 15.6 \, \text{km/}_{1}$

P9 = P1 + 1,5x, 1.64 x1,425 = 6.8 1ch

W== 1.5 kg/x x 1.58 m = 2.37 kg/m

P5 = 1.5 x 1.735 x 6.15 = 16.1 kg/

P6 = 1.5 x 0.868 x 6.15 = 8.1 kg/m

P7 = 1.5 x 1.507 x 1.425 = 3.23 lg/m

P8 = 1.5 x 1.507 x 3.075 = 7.0 kg/m

P10 = P8 + 1.5 x 1.64/x 3.075 = 14.6 kg/m

【基本事項・計算条件】

• 出力単位

: S I 単位

【節点座標】 [m]

No	×座標	Y座標	No	X座標	Y座標	No	X座標	Y座標
1 3 11 16 21	0. 000 8. 675 7. 450 15. 950 0. 000	4. 700 4. 700 0. 000 0. 000 7. 400	32 33 34 35 36	9. 500 11. 550 13. 600 14. 775 15. 950	2. 700 2. 700 2. 700 2. 700 2. 700 2. 700	64 65 66	17. 790 18. 965 20. 140	12. 100 12. 100 12. 100
22 23 24 25 31	4, 338 8, 675 13, 600 17, 790 7, 450	7. 400 7. 400 7. 400 7. 400 2. 700	51 56 61 62 63	11. 640 20. 140 11. 640 13. 690 15. 740	9, 400 9, 400 12, 100 12, 100 12, 100			

【支点データ】 [kN/cm] [kNm/rad] (Oは自由、1は拘束を表します。)

No	\ <u>\(1></u>	節点No. <2>	\(\)	X方向バネ	Y方向パネ	回転バネ
		3 51	11 56	1. 0 1. 0	1. 0 1. 0	0. 0 0. 0

【節点同一変位】

【材質】 [kN/mm2]

No E G

1 205.00 79.00

【断面性能】

No	A [cm2]	I [cm4]	κ	断面名
1 2 3	59. 24	3566	2.00	B0X-200*200*8*20
	38. 11	2625	3.61	H-194*150*6*9*8
	55. 49	6037	3.57	H-244*175*7*11*13

【部材配置】 (断面No. が負値の材は、伸縮しない材を表します。)

No	/一節点 :端	iNo/ j端	断面No	材質No	/─結合No i 端) // j端	─剛域 i 端	[cm]/ j端
1 2 3 4 5	1 3 11 16 51	21 23 31 36 61	1 1 1 1 1	1 1 1 1	0 0 0 0	0 0 0 0	0. 0 0. 0 0. 0 0. 0 0. 0	0. 0 0. 0 0. 0 0. 0 0. 0
6 11 12 13 14	56 21 22 23 24	66 22 23 24 25	1 2 2 2 2 2	1 1 1 1	0 0 0 0	0 0 0 0	0. 0 0. 0 0. 0 0. 0 0. 0	0. 0 0. 0 0. 0 0. 0 0. 0
21 22 23 24 25	31 32 33 34 35	32 33 34 35 36	3 3 3 3	1 1 1 1	0 0 0 0	0 0 0 0	0. 0 0. 0 0. 0 0. 0 0. 0	0, 0 0, 0 0, 0 0, 0 0, 0
31 32 33 34 35	61 62 63 64 65	62 63 64 65 66	2 2 2 2 2 2	1 1 1 1	0 0 0 0	0 0 0	0. 0 0. 0 0. 0 0. 0 0. 0	0. 0 0. 0 0. 0 0. 0 0. 0

【節点荷重】

※※ 荷重ケース 1 ※※ DL

WW 147	, , , , ,	.,,,					
節点No	Px [kN]	Py [kN]	M [kNm]	節点No	Px [kN]	Py [kN]	M [kNm]
1 3 11 16 21	0. 0 0. 0 0. 0 0. 0 0. 0	0, 0 0, 0 0, 0 0, 0 -33, 4	0. 0 0. 0 0. 0 0. 0 -4. 8	51 56 61 62 63	0. 0 0. 0 0. 0 0. 0 0. 0	0. 0 0. 0 -3, 3 -6. 5 -6. 5	0. 0 0. 0 0. 0 0. 0 0. 0
22 23 24 25 31	0. 0 0. 0 0. 0 0. 0 0. 0	-13. 4 -51. 8 -11. 0 -5. 1 -7. 1	0.0 -0.1 1.4 3.5 0.0	64 65 66	0. 0 0. 0 0. 0	0. 0 -3. 7 -1. 9	0. 0 0. 0 0. 0
32 33 34 35 36	0. 0 0. 0 0. 0 0. 0 0. 0	-14. 1 -14. 1 0, 0 -8. 1 -4, 1	0. 0 0. 0 0. 0 0. 0 0. 0				

【部材荷重】

※※ 荷重ケース 1 ※※ DL

部材No [′]	/- 節点 ;端	No -/ ;端	/ -	M [kNm] Mo	————/ j 端	/ Q [kN] i 端	/ j 端	/ N [kN] i端	 / j 端
1	1	21	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0
2	3	23	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0
3	11	31	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0
4	16	36	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0
5	51	61	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0
6	56	66	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0
11	21	22	-4. 8	7. 2	4. 8	-6. 7	-6. 7	0. 0	0. 0
12	22	23	-4. 8	7. 2	4. 8	-6. 7	-6. 7	0. 0	0. 0
13	23	24	-4. 9	7. 3	4. 9	-6. 0	-6. 0	0. 0	0. 0
14	24	25	-3. 5	5. 3	3. 5	-5. 1	-5. 1	0. 0	0. 0
21	31	32	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0
22	32	33	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0
23	33	34	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0
24	34	35	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0
25	35	36	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0

*** Super B	*** Super Build/FA1 *** 250780 [STELCOA-b]									
/· 部材No	- 節点No -/ i端 j端	/ i 端	M [kNm] — Mo	——/ /— j端	— Q [kN] i端	——/ / j端	N [kN] i端	j端	ב ונריד	
31 32 33 34 35	61 62 62 63 63 64 64 65 65 66	0, 0 0, 0 0, 0 0, 0 0, 0	0. 0 0. 0 0. 0 0. 0 0. 0	0. 0 0, 0 0. 0 0. 0 0. 0	0. 0 0. 0 0. 0 0. 0 0. 0	0. 0 0. 0 0. 0 0. 0 0. 0	0, 0 0, 0 0, 0 0, 0 0, 0	0. 0 0. 0 0. 0 0. 0 0. 0		
【支点反力】										
※※ 荷雪	直ケース 1	%% DL								
節点No	Rx [kN]	Ry [kN]	Rm [kNm]		節点No	Rx [kN]	Ry [kN]	Rm [kNm]		
1 3 11 16 51	4. 1 -4. 1 9. 9 -9. 9 5. 9	38. 5 63. 0 28. 3 26. 8 13. 6	0. 0 0. 0 0. 0 0. 0 0. 0		56	- 5, 9	13. 7	0.0		
					合計	0.0	184, 1	0.0		
【節点変位	1									
	- 章ケース 1	** DL								
節点No	δx [cm]	δy [cm]	heta [rad]		節点No	δx [cm]	δy [cm]	θ [rad]		
1 3 11 16 21	0.000000 0.000000 0.000000 0.000000 0.492016	0.00000 0.00000 0.00000 0.00000 -0.008565	-0.00116558 -0.00246230 0.00155786 -0.00162902 -0.00318767		51 56 61 62 63	0.000000 0.000000 -0.035983 -0.037528 -0.039074	0, 000000 0, 000000 -0, 003025 -0, 753361 -1, 253285	0. 00108685 -0. 00079658 -0. 00184940 -0. 00388291 -0. 00040806		
22 23 24 25 31	0. 489764 0. 487512 0. 487512 0. 487512 0. 013315	-1.187946 -0.014017 -1.039964 -0.893803 -0.006302	0. 00086993 -0. 00044021 -0. 00140454 0. 00190844 -0. 00339090		64 65 66	-0. 040619 -0. 041505 -0. 042390	-0, 893803 -0, 415723 -0, 003047	0.00349981 0.00409678 0.00213967		
32 33 34 35 36	0. 011526 0. 009737 0. 007949 0. 006923 0. 005898	-0. 945450 -1. 455790 -1. 039964 -0. 517599 -0. 005969	-0. 00422307 -0. 00023511 0. 00378501 0. 00459532 0. 00331974							
【部材応力]									
W.W. ##	F - 1	WW NI								

※※ 荷重ケース 1 ※※ DL

部材	/- 節 No i端	点No -/ j 端	/ i 端	M [kNm] 中央	/ j 端	/ Q [kN i 端	〕 / j端	/ N [kN] i 端	— <u> </u> / j 端
	1 1 2 3 3 11 4 16 5 51	31 36	0. 0 0. 0 0. 0 0. 0 0. 0	-5. 5 5. 5 -13. 4 13. 4 -8. 0	-11.0 11.0 -26.8 26.8 -15.9	-4. 1 4. 1 -9. 9 9. 9 -5. 9	4. 1 -4. 1 9. 9 -9. 9 5. 9	38, 5 63. 0 28. 3 26. 8 13. 6	-38. 5 -63. 0 -28. 3 -26. 8 -13. 6
1	6 56 1 21 2 22 3 23 4 24	22 23 24	0. 0 11. 0 -11. 4 13. 3 -1. 4	8. 0 7. 4 0. 8 1. 4 6. 0	15. 9 11. 4 -24. 3 1. 4 0. 0	5. 9 11. 8 -1. 5 9. 0 4. 7	-5. 9 1, 5 14. 9 3. 0 5. 4	13. 7 4. 1 4. 1 0. 0 0. 0	-13.7 -4.1 -4.1 0.0 0.0
	1 31 2 32 3 33 4 34 5 35	33 34 35	26. 8 -16. 8 -31. 4 -17. 1 0. 1	-5. 0 24. 1 24. 3 8. 5 -13. 4	16. 8 31. 4 17. 1 -0. 1 -26. 8	21. 2 7. 1 -7. 0 -14. 6 -22. 7	-21. 2 -7. 1 7. 0 14. 6 22. 7	9. 9 9. 9 9. 9 9. 9	-9.9 -9.9 -9.9 -9.9 -9.9
3	61 61 62 62 63 63 64 64 65 65	63 64 65	15. 9 -5. 2 -13. 0 -7. 5 2. 0	-5. 3 9. 1 10. 3 2. 7 -9. 0	5. 2 13. 0 7. 5 -2. 0 -15. 9	10, 3 3, 8 -2, 7 -8, 1 -11, 8	-10.3 -3.8 2.7 8.1 11.8	5. 9 5. 9 5. 9 5. 9	-5. 9 -5. 9 -5. 9 -5. 9 -5. 9

【基本事項・計算条件】

工 事 名:STELCO B Line-6 略 称:STELCOB-6 日 付:2009/10/12 担 当 者:

・せん断による変形の考慮 :する
・剛域の考慮 :する
・剛域の考慮 :する
・ 神なしない材 (A を1000倍) :有
・ 節点同一変位の指定 :有
・ 節が材毎の増加 :しない
・ 結合状態の共通指定 :部材毎に指定
・ 応力着目点の追加 :しない
・ 接合部パ 礼の教産 :しない
・ 関域を考慮した固定端モルトの計算 :しない
・ 部材端と節点のズレ :無
・ 部分布パネ :無

・出力単位

:SI単位

【節点座標】 [m]

No	×座標	Y座標	No	X座標	Y座標	No	X座標	Y座標
1 2 3 4 5	12. 295 20. 970 2. 850 4. 357 5. 863	4. 700 4. 700 7. 400 7. 400 7. 400	11 12 13 14 21	15. 765 17. 500 19. 235 20. 970 0. 000	7. 400 7. 400 7. 400 7. 400 0. 000	41 42 43 44 45	4, 520 13, 520 4, 520 7, 370 9, 020	9, 400 9, 400 12, 100 12, 100 12, 100
6 7 8 9	7, 370 9, 010 10, 655 12, 295 14, 030	7. 400 7. 400 7. 400 7. 400 7. 400	22 23 24 25 26	9, 000 0, 000 2, 850 4, 500 9, 000	0. 000 2. 700 2. 700 2. 700 2. 700	46	13, 520	12. 100

【支点データ】 [kN/cm] [kNm/rad] (Oは自由、1は拘束を表します。)

No	/ <1>	節点No. <2>	(3) /	X方向バネ	Y方向パネ	回転バネ
1	1	2	21	1.0	1. 0	0. 0
	22	41	42	1.0	1. 0	0. 0

【節点同一変位】

【材質】 [kN/mm2]

E G 1 205.00 79.00

【断面性能】

No	A [cm2]	I [cm4]	κ	断面名
1	59. 24	3566	2.00	B0X-200*200*8*20
3	55. 49	6037	3.57	H-244*175*7*11*13

【部材配置】 (断面No. が負値の材は、伸縮しない材を表します。)

No	/節点 i 端	iNo—/ j端	断面No	材質No	/─結合No i端 j	一// 端	∕──剛域 i 端	[cm] —/ j端
1 2 3 4 5	1 2 21 22 41	9 14 23 26 43	1 1 1 1	1 1 1 1	0 0 0 0	0 0 0 0	0, 0 0, 0 0, 0 0, 0 0, 0	0, 0 0, 0 0, 0 0, 0 0, 0
6 11 12 13 14	42 3 4 5 6	46 4 5 6 7	1 3 3 3 3	1 1 1 1	0 0 0 0	0 0 0 0	0. 0 0. 0 0. 0 0. 0 0. 0	0. 0 0. 0 0. 0 0. 0 0. 0
15 16 17 18 19	7 8 9 10 11	8 9 10 11 12	3 3 3 3 3	1 1 1 1	0 0 0 0	0 0 0 0 0	0, 0 0, 0 0, 0 0, 0 0, 0	0. 0 0. 0 0. 0 0. 0 0. 0
20 21 31 32 33	12 13 23 24 25	13 14 24 25 26	3 3 3 3	1 1 1 1	0 0 0 0	0 0 0 0	0.0 0.0 0.0 0.0 0.0	0. 0 0. 0 0. 0 0. 0 0. 0
41 42 43	43 44 45	44 45 46	3 3 3	1 1	0 0 0	0 0 0	0. 0 0. 0 0. 0	0. 0 0. 0 0. 0

【節点荷重】

※※ 荷重ケース 1 ※※ DL

節点No	Px [kN]	Py [kN]	M [kNm]	節点No	₽x [kN]	Py [kN]	M [kNm]
1 2 3 4 5	0. 0 0. 0 0. 0 0. 0 0. 0	0. 0 0. 0 0. 0 -10. 2 -10. 2	0. 0 0. 0 0. 0 0. 0 0. 0	22 23 24 25 26	0. 0 0. 0 0. 0 0. 0 0. 0	0. 0 -4. 9 -2. 6 -3. 5 -9. 6	0. 0 -0. 8 0. 5 -1. 7 1. 9
6 7 8 9 10	0. 0 0. 0 0. 0 0. 0 0. 0	0. 0 11. 1 15. 2 15. 6 16. 1	0. 0 0. 0 0. 0 0. 0 0. 0	41 42 43 44 45	0. 0 0. 0 0. 0 0. 0 0. 0	0. 0 0. 0 -10. 2 -5. 3 -7. 3	0. 0 0. 0 -1. 6 1. 1 -3. 5
11 12 13 14 21	0. 0 0. 0 0. 0 0. 0	-16.1 -16.1 -16.1 -8.1	0. 0 0. 0 0. 0 0. 0	46	0.0	-19. 9	4. 0

【部材荷重】

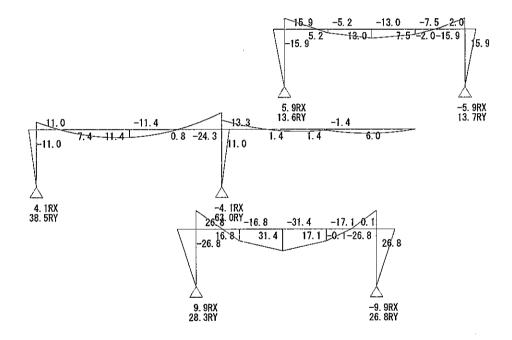
※※ 荷重ケース 1 ※※ DL

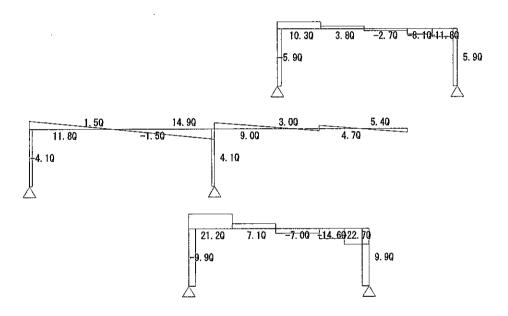
部材No	/- 節点 :端	₹No -/ 〕端	/i 端	M [kNm] Mo	———/ j 端	/ Q [kN] i 端	——/ j端	/ N [kN] i端	— <u> </u>
1	1	9	0. 0	0. 0	0. 0	0. 0	0, 0	0. 0	0. 0
2	2	14	0. 0	0. 0	0. 0	0. 0	0, 0	0. 0	0. 0
3	21	23	0. 0	0. 0	0. 0	0. 0	0, 0	0. 0	0. 0
4	22	26	0. 0	0. 0	0. 0	0. 0	0, 0	0. 0	0. 0
5	41	43	0. 0	0. 0	0. 0	0. 0	0, 0	0. 0	0. 0
6	42	46	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0
11	3	4	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0
12	4	5	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0
13	5	6	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0
14	6	7	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0	0. 0

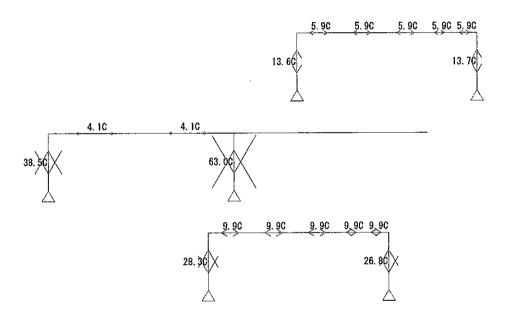
•	** Super Build/FA1 *** 250780 [STELCOB-6]									
部材No	/- 節点N i端	lo -/ j 端	/ i 端	M [kNm] — Mo	/ j 端	/—— Q [kN] i 端	——/ / - j端	N [kN] i端	 / j 端	
15 16 17 18 19	7 8 9 10 11	8 9 10 11 12	0. 0 0. 0 0. 0 0. 0 0. 0	0. 0 0. 0 0. 0 0. 0 0. 0	0. 0 0. 0 0. 0 0. 0 0. 0	0. 0 0. 0 0. 0 0. 0 0. 0	0. 0 0. 0 0. 0 0. 0 0. 0	0. 0 0. 0 0. 0 0. 0 0. 0	0. 0 0. 0 0. 0 0. 0 0. 0	
20 21 31 32 33	12 13 23 24 25	13 14 24 25 26	0. 0 0. 0 -0. 8 -0. 3 -1. 9	0. 0 0. 0 1. 2 0. 4 2. 9	0. 0 0. 0 0. 8 0. 3 1. 9	0. 0 0. 0 -1. 6 -0. 9 -2. 6	0.0 0.0 -1.6 -0.9 -2.6	0. 0 0. 0 0. 0 0. 0 0. 0	0. 0 0. 0 0. 0 0. 0 0. 0	
41 42 43	43 44 45	44 45 46	-1. 6 -0. 5 -4. 0	2. 4 0. 8 6. 0	1.6 0.5 4.0	-3. 4 -2. 0 -5. 3	-3. 4 -2. 0 -5. 3	0. 0 0. 0 0. 0	0. 0 0. 0 0. 0	
【支点反力	5]									
※※ 荷	重ケース	. 1	%% DL							
節点No	Rx	[kN]	Ry [kN]	Rm [kNm]		節点No		Ry [kN]		
1 2 21 22 41	-	9. 3 9. 3 5. 1 5. 1 7. 7	76. 3 35. 3 15. 9 15. 6 25. 8	0. 0 0. 0 0. 0 0. 0 0. 0		42	- 7.7	29. 1	0. 0	
						슴計	0.0	198.0	0.0	
【節点変句	ż]									
※※ 荷	重ケース	. 1	%% DL							
節点No	δxl	cm]	δy [cm]	heta [rad]		節点No	δx [cm]	δy [cm]	heta [rad]	
1 2 3 4 5	0.000 0.000 -0.697 -0.697)000 7715 7715	0. 000000 0. 000000 -0. 736762 -1. 127856 -1. 247303	0. 00408974 0. 00110478 -0. 00284361 -0. 00182779 0. 00028231		22 23 24 25 26	0. 000000 0. 131351 0. 130076 0. 129338 0. 127325	-0. 003540	-0. 00129571 -0. 00220001 -0. 00155405 0. 00057266 0. 00124195	
6 7 8 9 10	-0. 697 -0. 697 -0. 697 -0. 697 -0. 698	7715 7715 7715	-1. 071184 -0. 750117 -0. 292828 -0. 016965 -0. 737915	0. 00161775 0. 00244560 0. 00267732 -0. 00054631 -0. 00564892		41 42 43 44 45	0.000000 0.000000 0.145162 0.143242 0.142130	-0, 005728	0. 00070350 -0. 00175631 -0. 00311818 -0. 00239977 0. 00062731	
11 12 13 14 21	-0. 700 -0. 700 -0. 700 -0. 704 0. 000	1970 3388 1806	-1. 649211 -1. 859402 -1. 156474 -0. 007843 0. 000000	-0. 00365546 0. 00151801 0. 00595546 0. 00574083 0. 00033765		46	0, 139098	-0.006472	0, 00206537	
【部材応え	b]									
※※ 荷	重ケース	, 1	※ ※ DL							
部材No	/- 節点 i 端	Vo -/ j 端	/ i 端	M [kNm] 中央	/ j端	/ Q [kN] i 端	/ /- j 端	──N [kN] i端	——/ j 端	
1 2 3 4 5	1 2 21 22 41	9 14 23 26 43	0, 0 0, 0 0, 0 0, 0 0, 0	-12. 6 12. 6 -6. 9 6. 9 -10. 3	-25. 1 25. 1 -13. 7 13. 7 -20. 7	-9. 3 9. 3 -5. 1 5. 1 -7. 7	9. 3 -9. 3 5. 1 -5. 1 7. 7	76. 3 35. 3 15. 9 15. 6 25. 8	-76. 3 -35. 3 -15. 9 -15. 6 -25. 8	
6	42 3	46	0.0	10.3	20. 7	7. 7	-7.7	29. 1	-29. 1	
11 12 13 14	3 4 5 6	4 5 6 7	0. 0 -16. 7 -18. 0 -3. 9	8.3 17.3 11.0 6.2	16. 7 18. 0 3. 9 8. 6	11. 1 0. 9 -9. 3 2. 8	-11.1 -0.9 9.3 -2.8	0. 0 0. 0 0. 0 0. 0	0. 0 0. 0 0. 0 0. 0	

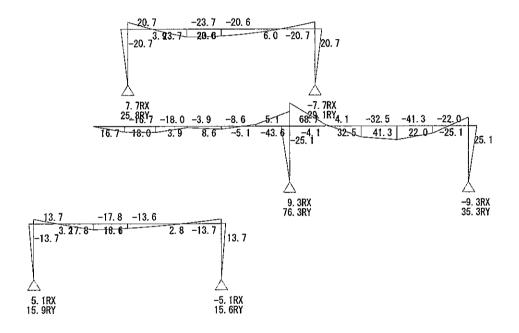
*** Super	per Build/FA1 *** 250780 [STELCOB-6]							** UNION SYSTEM ** 3.37 2009/10/12 08:27 PAGE~ 4 [任意形平面フレーム応力解析]			
部材No	/- 節g i 端	iNo -/ j端	/ i 端	M [kNm] 中央	/ j端	/ Q [kN] i 端	 / j 端	/ N [kN] i端	端	一面フレームルカが作引す	
15	7	8	-8. 6	1. 7	-5. 1	-8. 3	8. 3	0. 0	0. 0		
16	8	9	5. 1	-24. 3	-43. 6	-23. 5	23. 5	0. 0	0. 0		
17	9	10	68. 7	-36. 4	-4. 1	37. 2	-37. 2	9. 3	-9. 3		
18	10	11	4. 1	14. 2	32. 5	21. 1	-21. 1	9. 3	-9. 3		
19	11	12	-32. 5	36. 9	41. 3	5. 0	-5. 0	9. 3	-9. 3		
20	12	13	-41. 3	31. 7	22. 0	-11. 1	11. 1	9. 3	-9. 3		
21	13	14	-22. 0	-1. 5	-25. 1	-27. 2	27. 2	9. 3	-9. 3		
31	23	24	13. 7	3. 2	17. 8	12. 7	-9. 4	5. 1	-5. 1		
32	24	25	-17. 8	16. 1	13. 6	-1. 6	3. 5	5. 1	-5. 1		
33	25	26	-13. 6	2. 8	-13. 7	-3. 5	8. 6	5. 1	-5. 1		
41	43	44	20. 7	3. 9	23. 7	19. 0	-12. 2	7. 7	-7. 7		
42	44	45	-23. 7	23. 0	20. 6	0. 1	3. 8	7. 7	-7. 7		
43	45	46	-20. 6	6. 0	-20. 7	-3. 8	14. 5	7. 7	-7. 7		





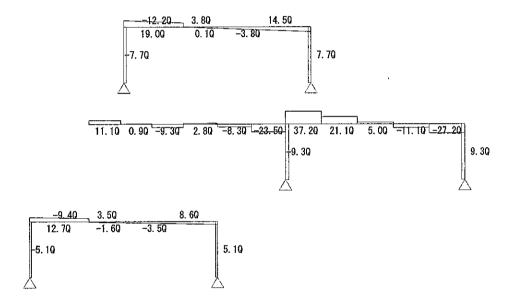


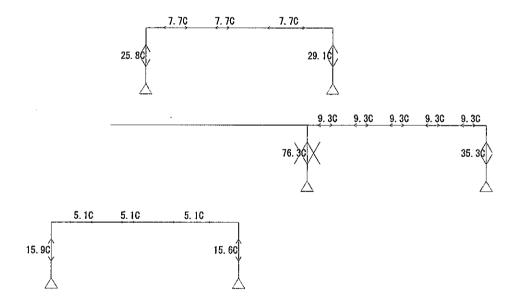




Х,

58-22





Member design

$$\frac{H - 200 \times 200 \times 8}{2700} \quad \frac{E_x = 357}{19} \quad \frac{iy = 7.76}{19} \quad A = 59.24$$

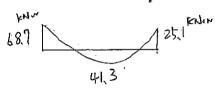
$$2700 \quad 18 = 2700 \times 15 = 4050 \quad \lambda = 4050 / 77.6$$

$$= 53$$

$$\int_{b^{2}} \frac{(31)}{42.8 \times 10^{3}} = \frac{(87)}{120} \int_{b}^{6} f_{b} = \frac{(0.16)}{0.77} \\
\int_{c} = \frac{(68^{2})}{37.3 \times 10^{3}} = \frac{(12)}{6.3} \int_{c}^{6} f_{c} = 0.05 \int_{c}^{6} \frac{(0.16)}{0.82} \int_{c}^{6} \frac{(0$$

(Girder)

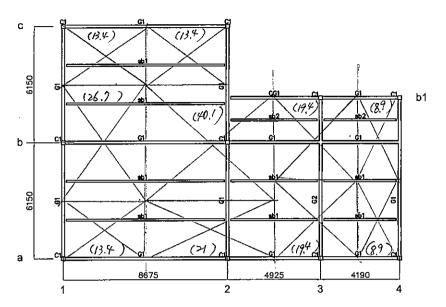
1 Ref. 58-22



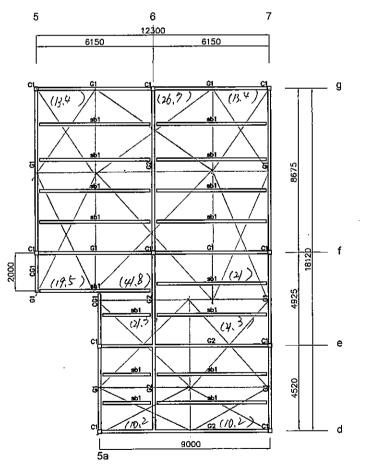
fb: 8900x195x11 - 334

V Pef. SB-5

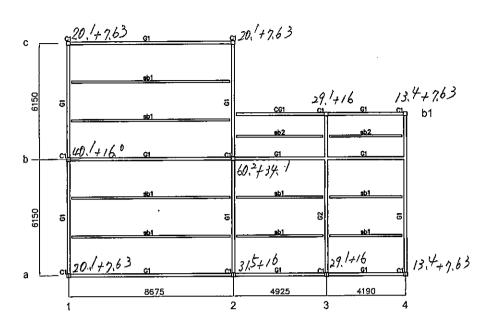
H-194x150x6x9 8x>271 Sp=2100



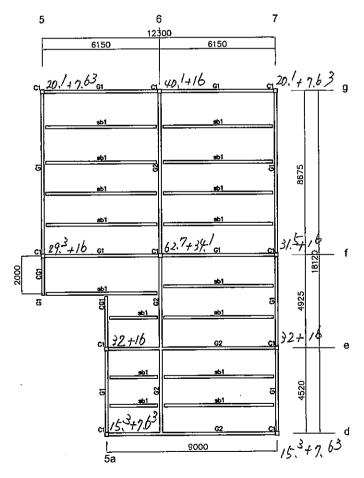
PLAN OF A-STRUCTURE



PLAN OF B-STRUCTURE



PLAN OF A-STRUCTURE



PLAN OF B-STRUCTURE

Wind Load.

H20 Anchor

150%

Pd= 0.75 x J210 x113 = 115 18 x9.8 = 1127 N -> 1120 N 8-420 = 112x8- 896 EN.

Foundation self weight

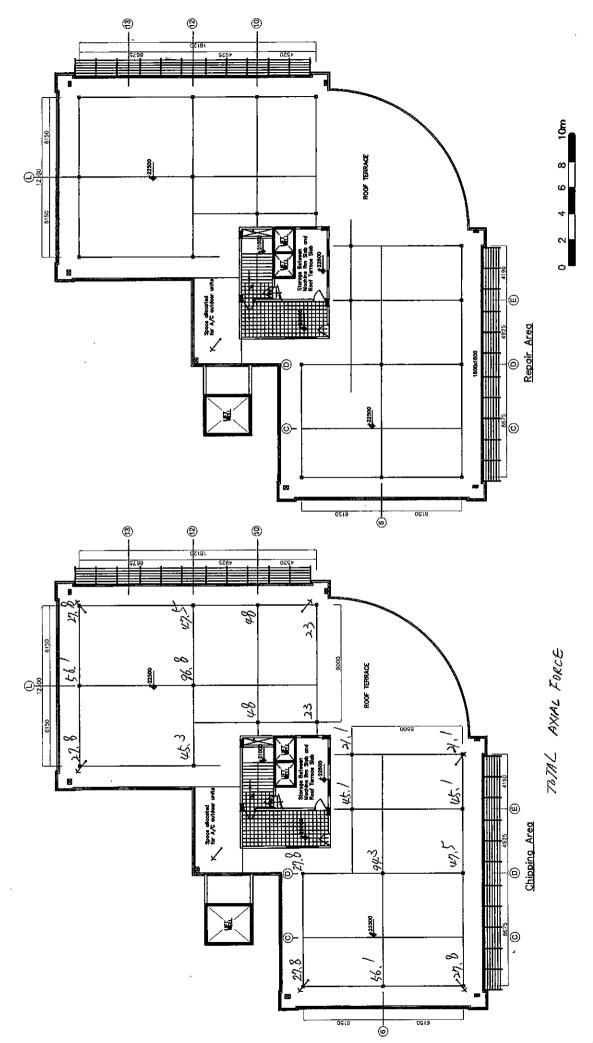
Aven $28^{M} \times 0.7 = 19.6^{12M}$.

Foundation $0.65 \times T \times 0.5 \times 24 = 16.0^{12M}$.

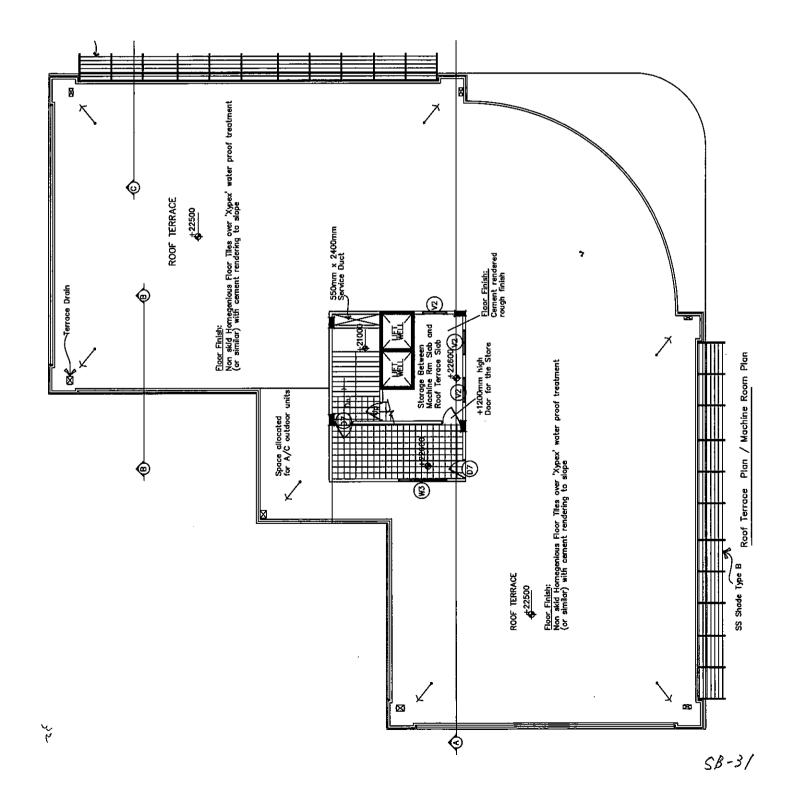
Anchor $8^{12}N$ $24.0^{12}N$ $24.0^{12}N$ $24.0^{12}N$ $20/0.7 = 28.6^{12}N$ Aren $14.6 \times 0.7 = 10.3^{12}N$ Foundation $0.45 \times T \times 0.5 \times 24 = 7.63$ Anch 8 = 15.63

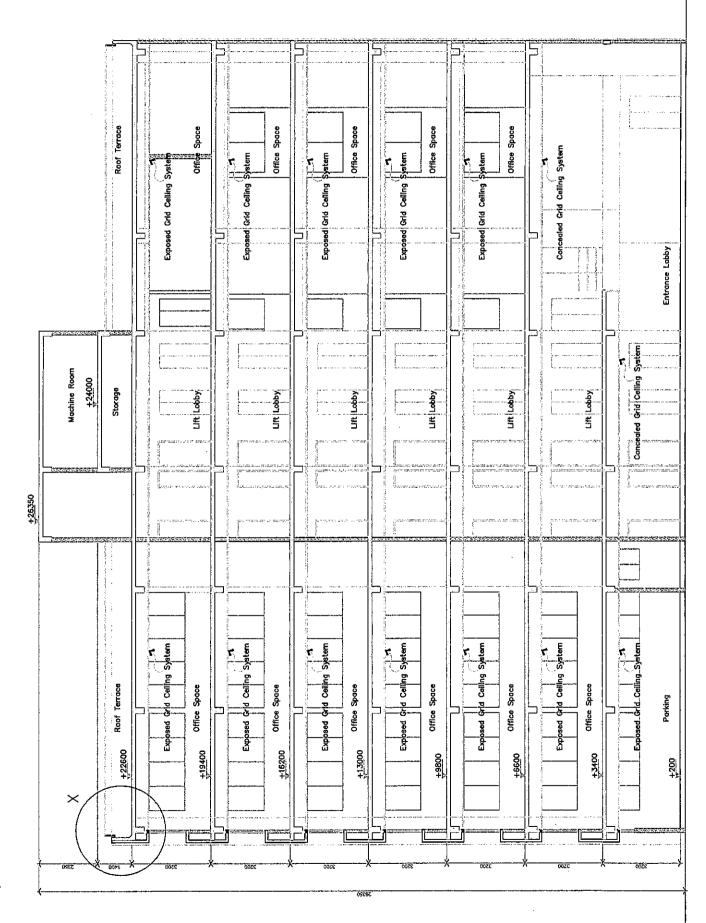
Aver 41.8 x 0.7 = 29.3 km Foundair 0.952 x x x 0.5 x 24 = 34.0 {

Awahr 8 42.0

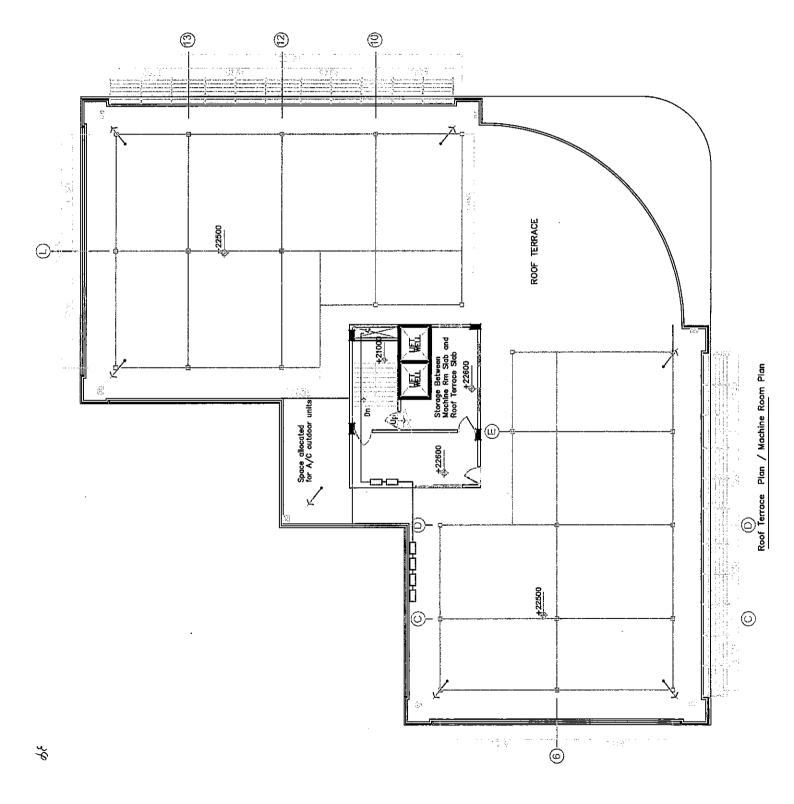


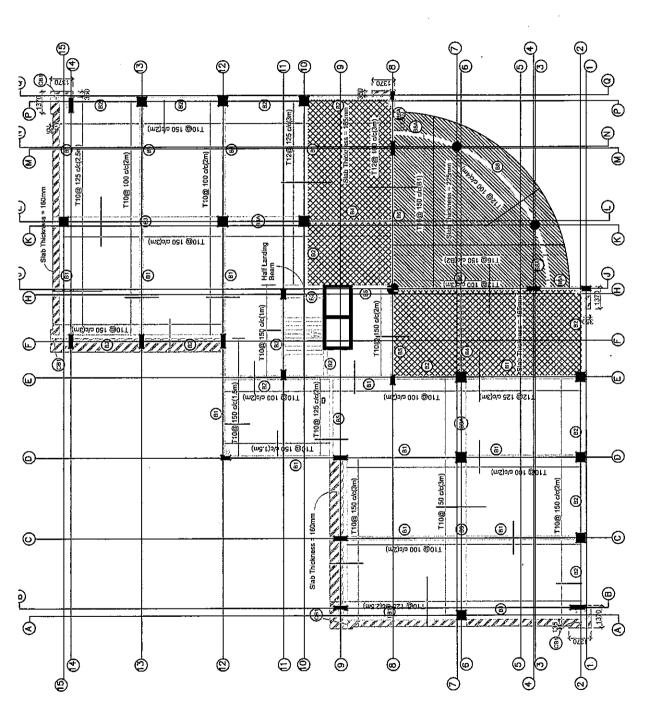
2. 既存建物安全性 a 確認 The confirmation of the existent building safety









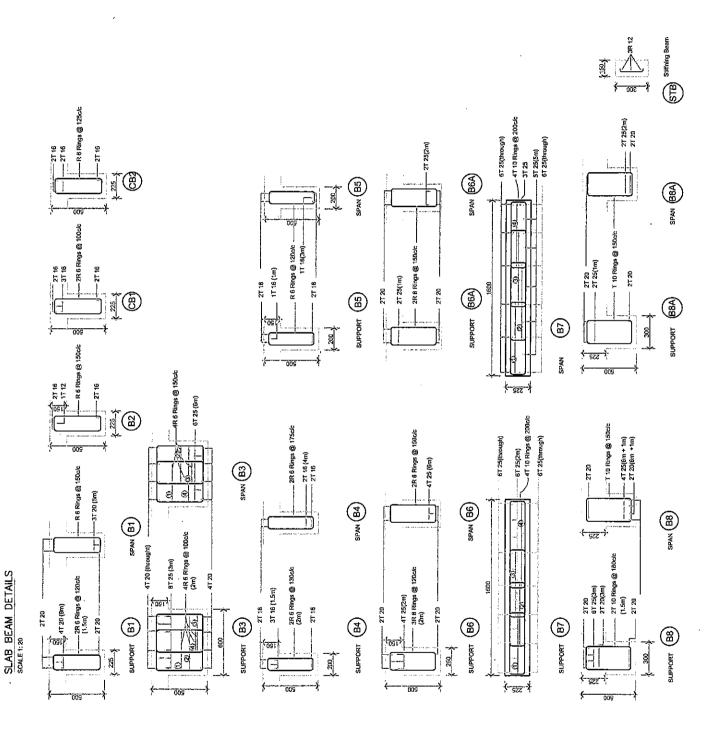


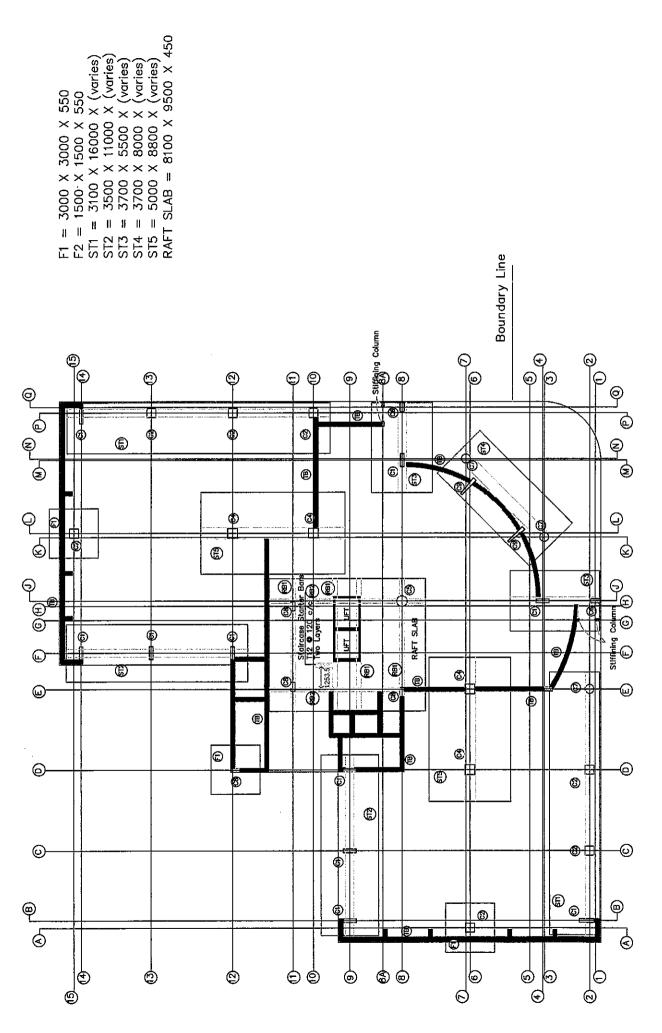
ROOF TERRACE SLAB BEAM PLAN Scale 1:200

Note : -

Slab Thickness = 150mm unless otherwise stated Top Reinforcement as shown

Bottom reinforcement 710 @ 150 c/c b/w bottom (not shown)





```
For Roof STRUCTURE (Bean )
  resistance them force
```

Qx = bij x lfg + 0.5 wfx x(pw-0.002) }

25 x 15 h = 0,00 38. 28.3 x L = 0.00209

Qn- 225 x WOX7/8 x (0.7) + 0.5x 195 x (0.00 209-0.002) = 63 b KN.

for . Slab. t:120.1 B= 000 Ae=120×4000= 480000 """

Q-48 bd. T= 480×103/480.000= 0.1 N/2 ~ (0.7) < Ref SB-30)

P=48kN 1000 = 1 5LAB 150

World

【基本事項・計算条件】

エ 事 名: モルディプ検討 略 称: BEAM 日 付: 2009/10/20 担 当 者: YEC

・ せん断による変形の考慮 : する
・ 剛域の考慮 : する
・ 剛域の考慮 : する
・ 伸縮しない材 (A を1000倍) : 有
・ 節点同一変位の指定 : 有
・ 節が材色の増減率の考慮 : 有
・ パネ材が態の共通指定 : 部材毎に指定
・ 応力着目点の追加 : しない
・ 接合部が、砂密変形の考慮 : しない
・ 投合部が、砂密変形の考慮 : しない
・ 関域を考慮した固定端モージトの計算 : しない
・ 部材端と

【節点座標】 [m]

・出力単位

No	X 座標	Y座標
1	0. 000	0. 000
2	3. 600	0. 000
3	6. 200	0. 000
4	7. 200	0. 000

【支点データ】 [kN/cm] [kNm/rad] (Oは自由、1は拘束を表します。)

:SI単位

/-- 飾点No. ---/ No <1> <2> <3> ×方向パネ Y方向パネ 回転パネ 1 1 4 1.0 1.0 1.0 1.0

【材質】 [kN/mm2]

No E G 1 21.00 9.00

【断面性能】

No A [cm2] I [cm4] κ 断面名 1 1125.00 234375 1.20 B*D-22.5*50

【部材配置】 (断面No. が負値の材は、伸縮しない材を表します。)

No	/─節点 i 端	No/ j端	断面No	材質No	/ 結合 i 端	No//- j端	剛域 i 端	[cm]// j 端	曲げ	增減率 軸方向	/ せん断
1	1	2	1	1	0	0	0. 0	0. 0	2. 000	1. 000	1. 000
2	2	3	1	1	0	0	0. 0	0. 0	2. 000	1. 000	1. 000
3	3	4	1	1	0	0	0. 0	0. 0	2. 000	1. 000	1. 000

【荷重ケース 1 】DL+LL

No	/節点 〈1〉	,部材N 〈2〉	la/ <3>	TYPE	方向	P 1	P 2	Р3	P 4	P 5	Р6
1 2 3 4 5	1 1 1 2 2	~	3	4 7 7 7 7	0 1 1 1 1 1	1. 890kN/m 0. 000kN/m 33. 000kN/m 33. 000kN/m 33. 000kN/m	33. 000kN/m 33. 000kN/m 33. 000kN/m 13. 200kN/m	0. 000m 2. 500m 0. 000m 1. 100m	1. 100m 0. 000m 1. 500m 0. 000m		
6 7	3			7 0	1	13. 200kN/m 0. 000kN	0. 000kN/m -48. 000kN	0. 000m 0. 000kNm	0. 000m		

【支点反力】

* *	荷重ケース	1	* *	DL+LL

節点No	Rx [kN]	Ry [kN]	Rm [kNm]
1 4	0. 0 0. 0	87. 0 129. 7	128. 4 -157. 6
合計	0. 0	216. 7	-29. 2

【節点変位】

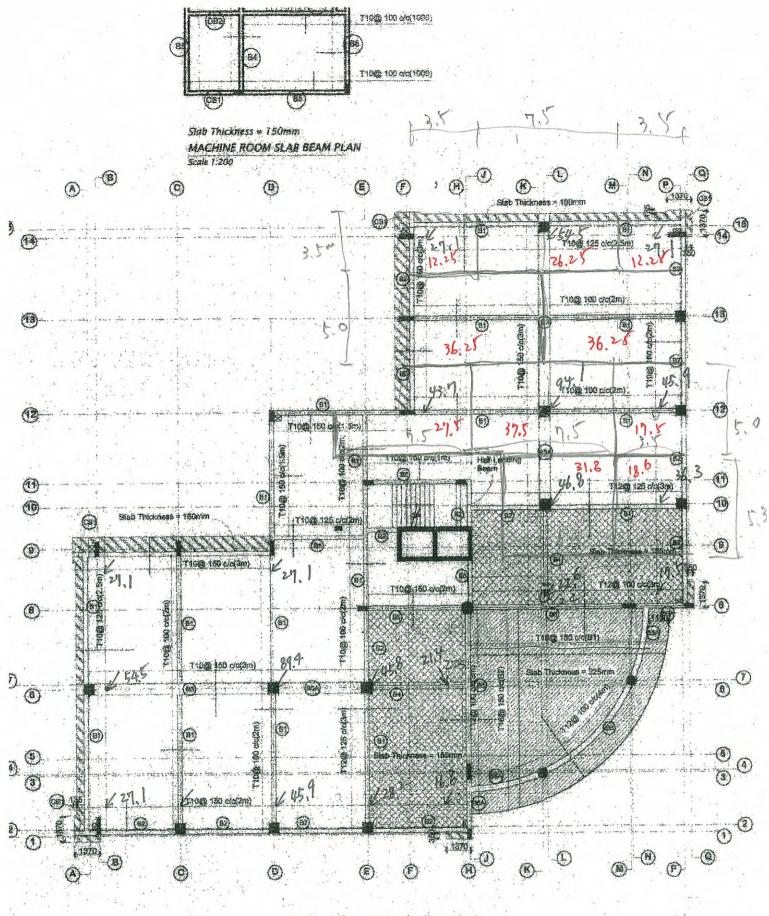
※※ 荷重ケース 1 ※※ DL+LL

節点No	δx [cm]	δy [cm]	θ [rad]
1	0. 000000	0. 000000	0. 00000000
2	0. 000000	-0. 263787	-0. 00004980
3	0. 000000	-0. 073303	0. 00095072
4	0. 000000	0. 000000	0. 00000000

【部材応力】

※※ 荷重ケース 1 ※※ DL+LL

部材Na [']	/- 節点	iNo -/	/	M [kNm]	/	/ Q [kN]	———/	/ N [kN]	/
	;端	j端	i 端	中央	j 端	i 端	j 端	i 端	j 端
1	1	2	128. 4	12. 3	72. 7	87. 0	-2. 6	0. 0	0. 0
2	2	3	-72. 7	46. 7	-31. 0	2. 6	73. 3	0. 0	0. 0
3	3	4	31. 0	-93. 2	-157. 6	-121. 3	129. 7	0. 0	0. 0



ROOF TERRACE SLAB BEAM PLAN Scale 1:200

Hote ..

LA & FOLK AN ANGAL (AN ANGAL)

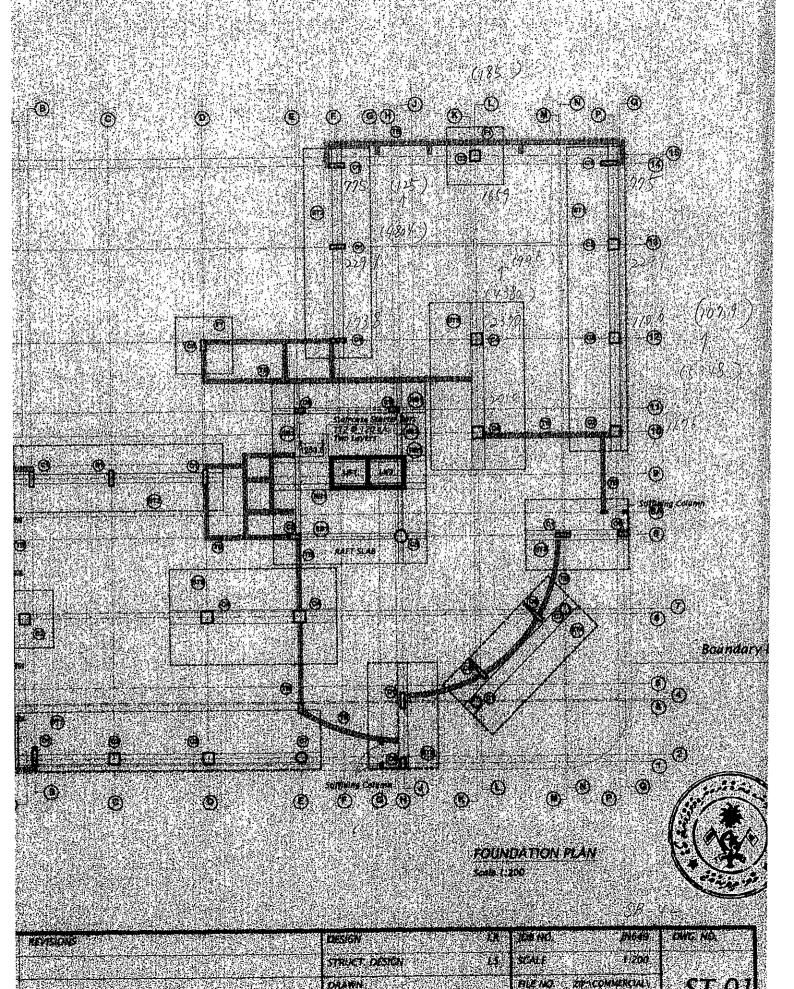
puran intercounsit

Lon seintercanner er zwani

2199 (syckness -) zowie myese awanyse zovey

Average unit weight $12.25 \times 7.9 \text{ keV}_{M2} \times 8$ $26.25 \times 7.9 \text{ keV}_{M2} \times 8$ $27.5 \times 7.9 \text{ keV}_{M2} \times 9$ 27.5×9

E

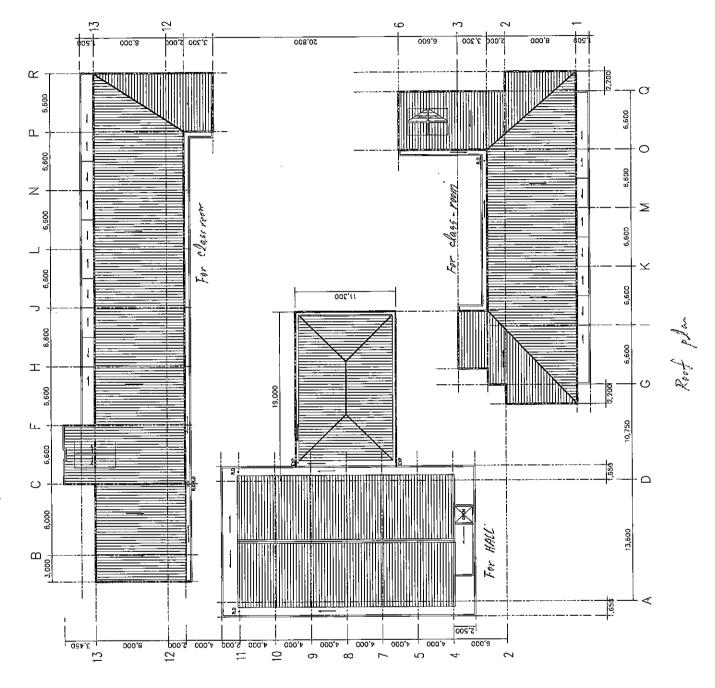


(F) Line		
	. ;	
(4804+27.8+453) = 48781cm	<u> </u>	
572 y,5 x 11.0	4878/18.5	- 126.7 mm.
		(157) <250 /m2
@ Line.		
(1659 +36.1) = 1716 M.	<u> </u>	00
F1 3.0×3.0	17/0/9:	190, / N
		190,7 km/22 (22/) (250 km/2 02
© Line.		00
(4380 + 968+48.0) = 4525		
	nts lui	= 102,9 Kg/m
575 50×8.8		
@ Line		(133) <250
(5348+27.1+47.5+48) > 54	70.6	
S7/ 3/×/6.0	5470.6/49.6	= 110,3 kg/m2
		(141) (250
	· · · · · · · · · · · · · · · ·	20×1.5=30 EN
		20.8 (3.5.20 4)
		<u> </u>
<u> </u>		
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	<u> </u>	
		58-43

· · · · · · · · · · · · · · · · · · ·	
No. 6	Kalaafaanu School
No.8	Thaajuddeen School
No 9	Now Socondany School for Airls
· · · · · · · · · · · · · · · · · · ·	New Secondary School for Girls.
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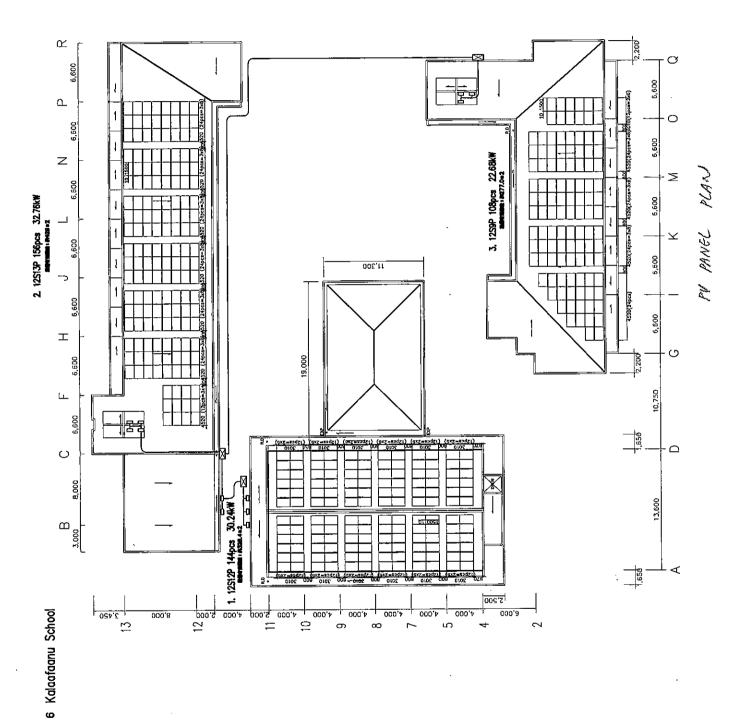
- PV panel and support frame: Weight is 0.5kN/m²
- · Support member is designed (for PV panel)
- · Purlin, Post, Sub beam and Truss are confirmed with the existen member.
- There is no problem in the safety because additional weight is 0.5kN/m² with the main structure member.

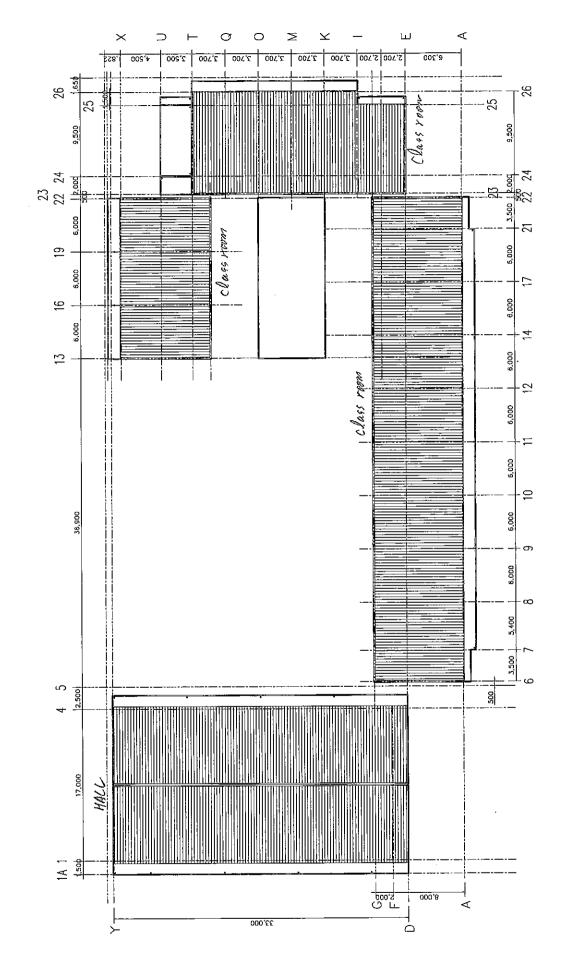


No. 6 Kalaafaanu Schoof

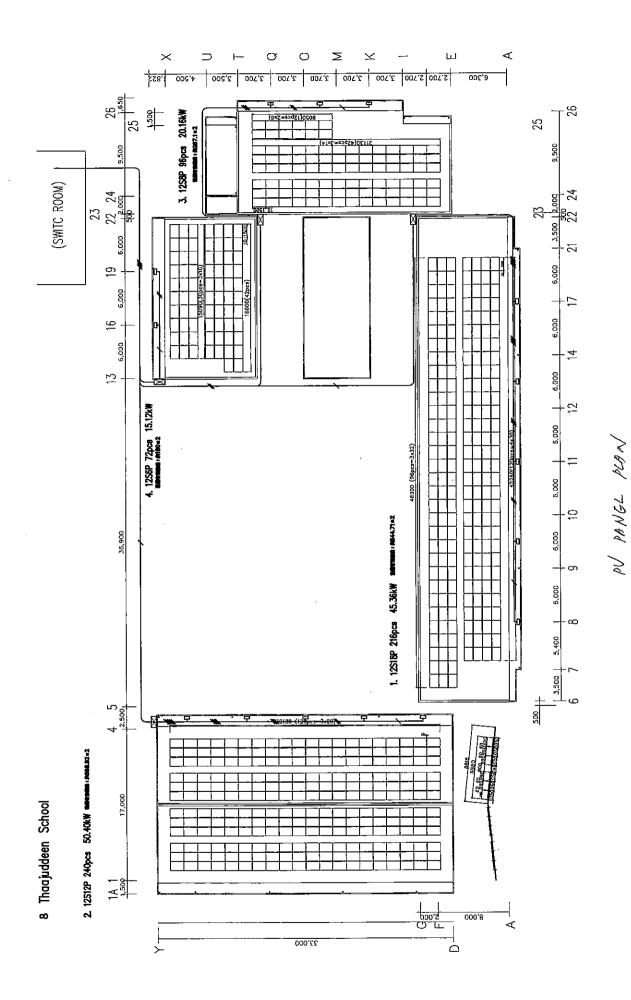
E,



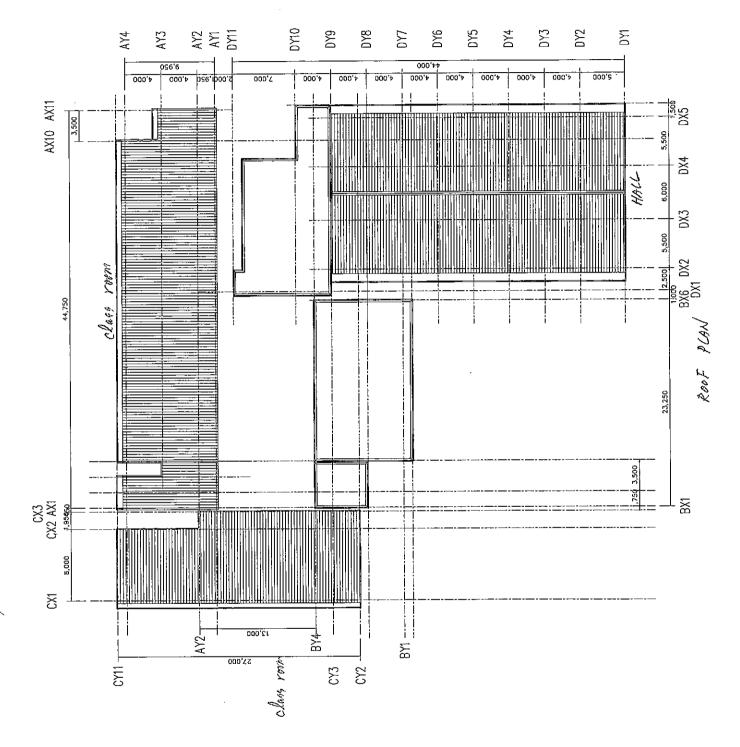




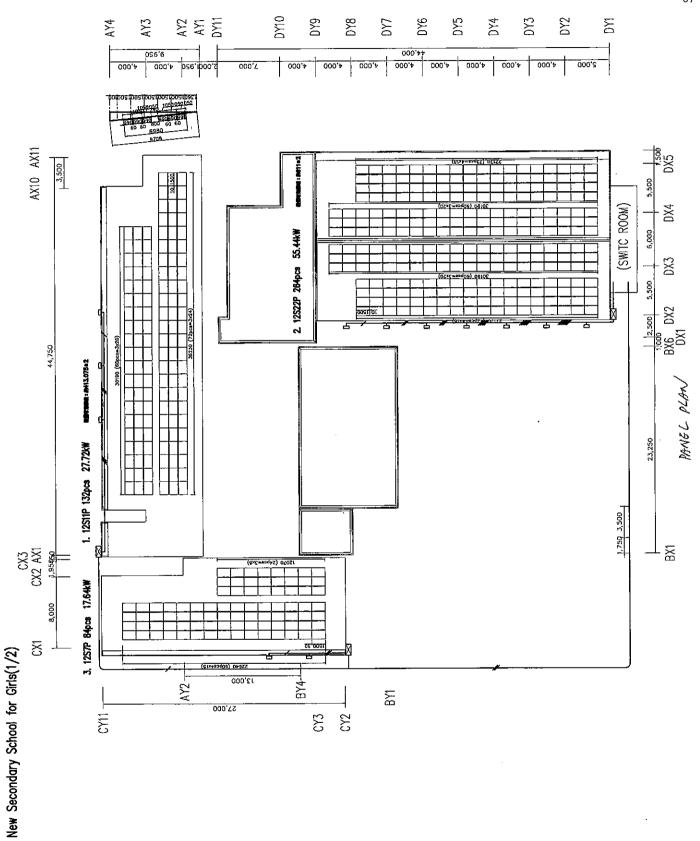
Roof POR



49



No.9. New Secondary School for divls



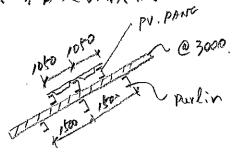
Rough Weight of PV Panel

Site		Capacity of 25	UNIT	ITEM	Unit Weight	Unit	Piece or m	Weight		Area	unit load
	0.1.1			PV Panel	30. 5	kg/p	144	4392. 0	kg	228. 31	30. 6
	School Hall	30. 24		Base Channel	10. 3	kg/m	252. 84	2604. 3	kg		
				Sub To		6996. 3	k g				
	North Class room	32. 76	I I	PV Panel	30. 5	k g /p	156	4758.0	kg	247. 34	30. 3
N o 6				Base Channel	10. 3	kg/m	266. 68	2746. 8	k g		
				Sub Total				7504. 8	k g		
	South			PV Panel	30. 5	kg/p	108	3294. 0	k g	171. 23	30. 5
	Class	22. 68	kW	Base Channel	10. 3	kg/m	186. 82	1924. 2	k g		
	room			Sub Total				5218. 2	k g		
Total Ca	apacity of PV	85. 68	kW								

Site		Capacity of PV	UNIT	ITEM	Unit Beight	Unit	Piece or m	Weight		Area	unit load
	0.1			PV Panel	30. 5	kg/p	216	6588. 0	k g	342. 47	31. 9
	Class room-1	45. 36	kW	Base Channel	10. 3	kg/m	419.65	4322. 4	k g		
				Sub Total				10910. 4	kg		
	School Hall			PV Panel	30. 5	kg/p	240	7320. 0	k g	380. 52	32. 3
		50. 4	kW	Base Channel	10. 3	kg/m	483. 04	4975. 3	k g		
No8				Sub Total				12295. 3	k g		
NOO	Special	20. 16		PV Panel	30. 5	kg/p	96	2928. 0]	152. 21	32. 5
	class			Base Channel	10. 3	kg/m	196. <u>19</u>	2020. 8			
	moor			Sub Total				4948. 8			
	North			PV Panel	30. 5	kg/p	72	2196. 0	k g	114. 16	31. 9
	Class	15. 12	kW	Base Channel	10. 3	kg/m	140. 25	1444. 6	k g		
	room			Sub Total				3640. 6	k g		
Total Ca	apacity of PV	131. 04	kW					-	-		

Site		Capacity of PV	UNIT	ITEM	Valt Weight	Unit	Piece or m	Weight		Area	unit load
:				PV Panel	30. 5	kg/p	132	4026.0	k g	209. 29	32. 3
l •	Class room-1	27. 72	kW	Base Channel	10. 3	kg/m	265. 68	2736. 5	k g		
	100			Sub Tot	Sub Total			6762. 5	kg		
	School Hall	55. 44	. kW	PV Panel	30. 5	kg/p	264	8052. 0	kg	418. 57	31. 9
N o 9				Base Channel	10. 3	kg/m	513. 22	5286. 2	k g		
				Sub Total .			13338. 2	kg			
	Special			PV Panel	30. 5	kg/p	84	2562. 0		133. 18	30. 8
	class	17. 64	k₩	Base Channel	10. 3	kg/m	149. 41	1538. 9			
	room			Sub Total				4100.9			
Total C	apacity of PV	83. 16	k\Г						_		

The examination of support frame 1. 煤台党《校討·



Class room Type.
$$\frac{C-100 \times 50 \times 20 \times 2.3}{16.1 \times 10^3}$$
 Ix= 80.7×10^4 $Z_x = 16.1 \times 10^3$

$$\int_{0}^{1} \frac{0.43 \times 10^6}{16.1 \times 10^3} = 27 \text{ Mar} \int_{0}^{1} \frac{6}{16.1} = 0.18 \text{ CI}, 0$$

$$5 \times 1.5 \times 1.5 \times 10^{4}$$

$$\int_{-\infty}^{\infty} = \frac{5 \times 1.5 \times 1.5 \times 10^{4}}{3.84 \times 2.05 \times 10^{4} \times 80.7 \times 10^{4}}$$

$$= 0.6 \text{ mm} = \frac{1}{2500}$$

=).
$$\frac{C - 120 \times 60 \times 20 \times 2.3}{6n} = \frac{2.3 \times 10^3}{23.3} = 99 = 6n/fn = 0.64$$

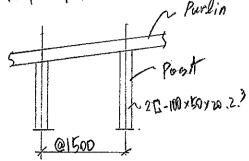
 $\frac{5 \times 1.5 \times 3.5^4 \times 10}{3.64} = 10.3^{mn} = 1/37.9$

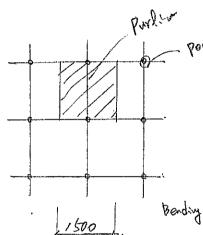
2. 関抗語行 The examination of the existent member (教室棟).

(教室棟).

屋规、世屋検討

foof Purlin





Bending Momen M = 1/8 x 1,3 x 1,5 = 0,4 km.

Shear Q = 1/2 x 1.3 x 1.5 = 1.0 km

Parlin

20-100x50x20x2.3 fb-157 1/2~

Ix = 80.7 x 2 Ex. 16.1 x2

66= 0.4×106 = 13 1/2 : 6/6 = 0.09 < 1.0 0K

Juax = 5 x 1.3 x 1.5 x 10 = 0.26 mm = 1/5770 < 1/300

OK

Ref. KTN-61,79

(数定律) For class room 東村の検討

$$h = 1000$$

$$N = 0.85 \text{ kg/m} \times 1.5^{m} \times 1.5^{m} \times 1.5^{m} \times 1.0^{m}$$

$$= 2.5 \text{ kN}$$

$$2[-100 \times 50 \times 20 \times 2.3]$$

$$A = 517 \times 2 = 1034^{mm}$$

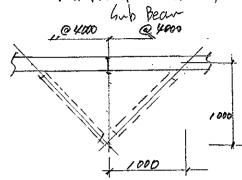
$$A = 517 \times 2 = 1034^{mm^2}$$

 $\dot{y} = 19.2^{mm}$
 $\dot{y} = 19.2^{mm}$

Ref. KTN-61, 79

No.8. 9 Hall (体育館拌)

中間小米《校討



(TB43) [-150×75×65×10

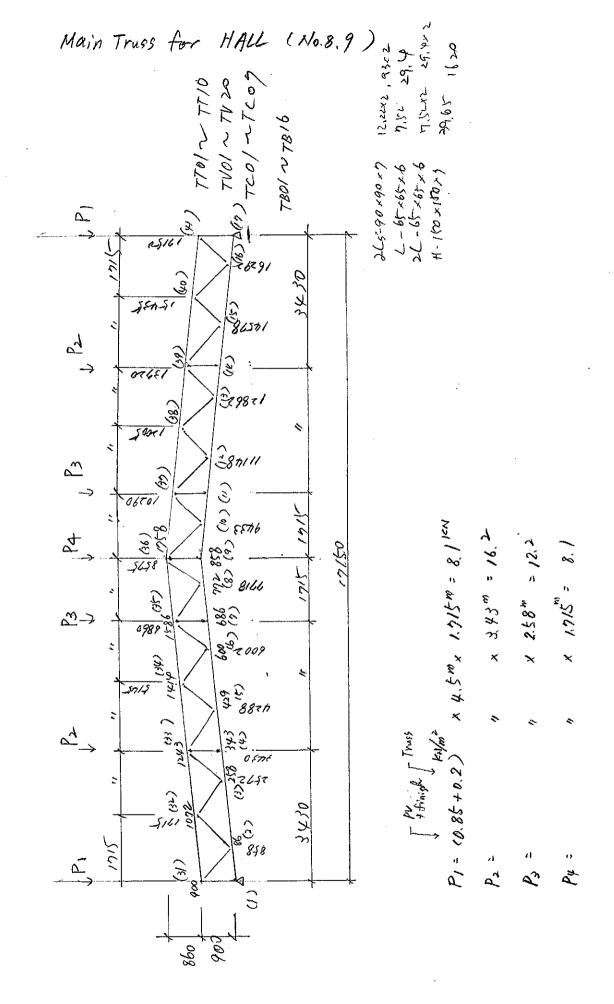
$$L = 4.0^{m}$$

$$uk = 0.85^{key/m^{2}} \times 3.43^{m} = 3.0^{key/m}$$

$$M = \frac{1}{8} \times 3.0 \times 4.0^{2} = 6.0^{key/m}$$

$$Q = \frac{1}{2} \times 3.0 \times 4.0^{2} = 6.0^{key/m}$$

OK.



Ref, KIN-60.62,63 78,86,87

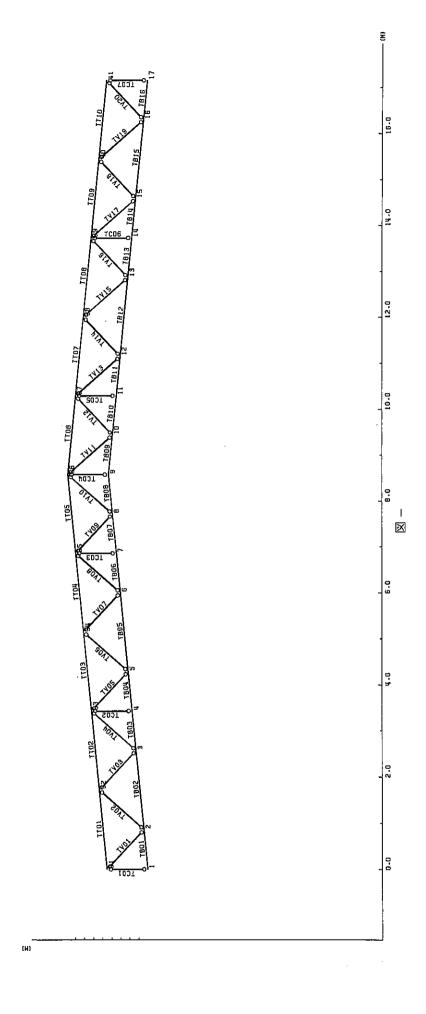
Member Pesign
(upper chord-)
N=170' Compression
$N = 190 \text{FN} \text{C6 Mpreasion}$ $\frac{2L_{4} - 90 \text{x} 90 \text{x} 9}{2 \text{L}_{5} - 90 \text{x} 90 \text{x} 9} \text{A} = 12.22 \text{x} 2 \text{i}_{3} = 1.99 \text{x} 2 = 3.54 \text{m}$
lk=1720 1=1720/345=50
fc= 135
To= 1900 = 78 1/m 60/fc = 0.58 41.0 0K
$N = 170.4$ $16 = 3430 \lambda = 3430/345 = 100$
fc=86.4
Tc= 1704 = 70 60/fc=0.81 <1.0
0 16
(Web)
N= 47 km (compression)
L-65xb A=7.52 y=127 le=1260 N=100
fc = 86.4
7 470
8~ 400 = 6524/~ 21/6 -043 (1'0
KTW-13

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A ELLAT INTEGRATED

STRUCTURAL ANALYSIS SYSTEM 2

KANSAS2 STATIC FOR WINDOWS VER. 2. 2(2006.7)

DEVELOPED BY IT SOLUTIONS DEPARTMENT

COPYRIGHT (C) CORPORATION

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       94) BEAM TV20
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       96) LOAD DL+LL
       97) FORC 31
                                           -8. 1
       98)
          FORC
               33
                                           -16. 2
       99) FORC
               35
                                           -12. 2
      100) FORC
               36
                                           -8. 1
0
          10
                   20 30 40 50 60 70 80
                                                                2009/06/13 11:21:09 PAGE= 2
```

 $1 < KANSAS2 \ V2.2 > \ TITLE(\ MALDIVES \ NO.9 \ GIRLS \ SECONDARY) \ STAFF(\ YEC) \ DATE(\ 2009/04/18) \ PAGE= \ 3$ ***** INPUT DATA ECHO TOTAL (109) ***** 10 20 30 40 50 60 70 80 101) FORC 37 -12.2 102) FORC 39 -16. 2 103) FORC 41 -8. 1 104) ******************* 105) BOUN BOOT SHITEN 106) B0F1 1 109) END 0 10 20 30 40 50 60 70 80

2009/06/13 11:21:09 PAGE= 3

*****	ODAL PO	O I N T L O	CATION		(GLO	3AL-COORDINA	TE) *****					
POINT	х	Y	Z	CT	1 C2	POINT	Х	Υ	Z	(1	1 C2	
NO.	(M)	(制)	(M)			NO.	(M)	(M)	(M)			
1)	0,0000	0.0000	0. 0000	0	0	15)	14. 5780	0. 2580	0.0000	0	0	
2)	0.8580	0.0860	0.0000	0	0	16)	16. 2920	0.0860	0.0000	0	0	
3)	2. 5720	0. 2580	0.0000	0	0	17)	17. 1500	0.0000	0.0000	0	0	
4)	3.4300	0.3430	0.0000	0	0	31)	0.0000	0.9000	0.0000	0	0	
5)	4. 2880	0. 4290	0.0000	0	0	32)	1, 7150	1. 0720	0.0000	0	0	
6)	6.0020	0.6000	0,0000	0	0	33)	3, 4300	1. 2430	0.0000	0	0	
7)	6.8600	0.6860	0.0000	0	0	34)	5. 1450	1.4140	0.0000	0	0	
8)	7. 7180	0.7720	0.0000	0	0	35)	6.8600	1. 5860	0.0000	0	0	
9)	8. 5750	0.8580	0.0000	0	0	36)	8. 5750	1.7580	0.0000	0	0	
10)	9. 4330	0. 7720	0.0000	0	0	37)	10. 2900	1. 5860	0.0000	0	0	
11)	10. 2900	0. 6860	0.0000	0	0	38)	12. 0050	1. 4140	0.0000	0	0	
12)	11. 1480	0.6000	0.0000	0	0	39)	13.7200	1. 2430	0.0000	0	0	
13)	12.8620	0. 4290	0.0000	0	0	40)	15. 4350	1.0720	0.0000	0	0	
14)	13. 7260	0. 3430	0.0000	0	0	41)	17. 1500	0. 9000	0.0000	0	0	
						+					+	
						MAX.	17. 1500	1. 7580	0.0000			
						MIN.	0. 0000	0.0000	0,0000			

2009/06/13 11:21:09 PAGE=

	*****	m L «	יטוי	. 11	VAI	'A (BE	AM) ***	** (TOTA	L 53)							
MEMBER LENG		NODAL CO		CONDITION		AREA	1NERT LA-X	INERTIA-Y	INERTIA-Z	KAPPA		E	G	ADJUSTING	i LENG	
NAME	(M)	PO	NT	- 1	J	(CM2)	(CM4)	(CM4)	(CM4)			(N/MM2)	(N/MM2)	ANGLE		(M)
	L	I	J	XYZ	XYZ	A	IX	IY	ΙZ	KY	KZ			(DEG.)	LD(Y)	LD (
TV18	1. 18	15	40	001	100	7. 520E+00	0. 000E+00	0.000E+00	2. 940E+01	0.00	0.00	205000.00	79000.00	0.00	0.00	1.
TV19	1. 31	40	16	001	001	7. 520E+00	0.000E+00	0.000E+00	2. 940E+01	0.00	0.00	205000.00	79000.00	0.00	0.00	1. 3
TV20	1. 18	16	41	001	001	7. 520E+00	0.000E+00	0.000E+00	2. 940E+01	0.00	0.00	205000.00	79000, 00	0.00	0.00	1. ¹ -+
MAX.	1. 72					3. 965E+07	0. 000E+00	0. 000E+00	1. 620E+03	0. 00	0. 0 0	205000.00	79000.00	0.00	0.00	1.

1 < KANSAS2 V2.2 > TITLE(MALDIVES NO.9 GIRLS SECONDARY) STAFF(YEC) DATE(2009/04/18) PAGE= 8 **** MEMBER DATA (BEAM) **** (TOTAL 53) NAME (M) RHO MEMBER COOR. MEMBER Y-I Y-J Z-I Z-J IX IY IZ AXIAL KY KZ (1/DEG) (kN/M3) $0.00 \quad 0.00 \quad 0.00 \quad 0.00 \quad 1.000 \quad 1.000 \quad 1.000 \quad 1.000 \quad 1.000 \quad 1.000 \quad 1.2000 - 05 \quad 77.0000 \quad -0.69 \quad 0.73 \quad 0.00 \quad 0.000 \quad 0.$ TV18 TV19 0.00 0.00 0.00 0.00 1.000 1.000 1.000 1.000 1.000 1.000 1.2000-05 77.0000 0.75 0.66 0.00 0.00 0.00 0.00 0.00 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.2000-05 77.0000 -0.69 0.73 0.00 TV20 MAX. 0.00 0.00 0.00 0.00 1.000 1.000 1.000 1.000 1.000 1.000 1.2000-05 77.0000 0.00 0.00 0.00 0.00 1.000 1.000 1.000 1.000 1.000 1.000 1.2000-05 77.0000

1 < KANSAS2 V2.2 > TITLE(MALDIVES NO. 9 GIRLS SECONDARY) STAFF (YEC) DATE (2009/04/18) PAGE= 9

****** L O A D D A T A ******

NO. LOAD NAME GROUP NO. TITLE

0 1 DL+LL 0 DEAD LOAD + LIVE LOAD

1 < KANSAS2 V2.2 > TITLE(MALDIVES NO.9 GIRLS SECONDARY) STAFF(YEC) DATE(2009/04/18) PAGE= 10 **** NODAL POINT FORCE DATA **** CASE(DL+LL) LABEL(DEAD LOAD + LIVE LOAD) POINT COORDINATE X-FORCE Y-FORCE Z-FORCE NO. (KN) (KN) (KN) NO. 31 0.00000 -8, 10000 0.00000 33 0 0.00000 -16. 20000 0.00000 0.00000 -12. 20000 0.00000 35 0 0,00000 -8. 10000 0.00000 0 36 37 0.00000 -12. 20000 0.00000 0.00000 0.00000 39 -16, 20000 41 0.00000 -8. 10000 0.00000

1 < KANSAS2 V2.2 > TITLE(MALDIVES NO.9 GIRLS SECONDARY) STAFF(YEC) DATE(2009/04/18) PAGE= 11

****** B O U N D A R Y C O N D I T I O N D A T A ******

NO. BOUD. NAME TITLE

O 1 BOOT SHITEN

1 < KANSAS2 V2. 2 > TITLE (MALDIVES NO. 9 GIRLS SECONDARY) STAFF (YEC) DATE (2009/04/18) PAGE= 12

******** S I N G L E P 0 I N T C 0 N S T R A I N T ******

CASE (B001) LABEL (SHITEN)

POINT CONDITION COORDINATE NODAL POINT NUMBER

XYZXYZ

110000 0 1
010000 0 17

1 < KANSAS2 V2. 2 > TITLE (MALDIVES NO. 9 GIRLS SECONDARY) STAFF (YEC) DATE (2009/04/18) PAGE= 13

***** R U N D A T A *****

NO. CASE YES/NO BOUD. LOAD GROUP NO. TITLE

O CHOUKI OURYOKU

*****	NODALP	OINT LOA	D VECTOR	***** Load (dl+el)	LABEL (DEAI) LOAD + LIVE LOAD)
POINT	X	Y	Z	м-х	M-Y	M-Z	
NO.	(KN)	(KN)	(KN)	(KN. M)	(KN. M)	(KN. M)	
31	0.00000	-8. 10000	0.00000	0.0000000	0. 0000000	0. 0000000	
33	0.00000	-16. 20000	0.00000	0.0000000	0.0000000	0.0000000	
35	0.00000	-12. 20000	0.00000	0.0000000	0.0000000	0.0000000	
36	0.00000	-8. 10000	0.00000	0.0000000	0.0000000	0.0000000	
37	0.00000	-12. 20000	0.00000	0.0000000	0.0000000	0.0000000	
39	0.00000	-16, 20000	0.00000	0.0000000	0.0000000	0. 0000000	
41	0.00000	-8. 10000	0.00000	0.0000000	0.0000000	0.0000000	

****	N O D A L P	OINT DIS	PLACEME			MANUAL ALIANAMA		,
				CASE (DL+LL)	LABEL (CHOUKI OURYOKU)
POINT	X	Υ	Z	R-X	R-Y	R-Z	COORD	
NO.	(CM)	(CM)	(CM)	(RAD/1000)	(RAD/1000)	(RAD/1000)		
1	0.000000	0.000000	0.000000	0.000000	0.000000	-4. 916640	0	
2	0.042734	-0. 426314	0.000000	0.000000	0,000000	~5. 072805	0	
3	0. 153050	-1.311732	0.000000	0.000000	0.000000	-5. 077144	0	
4	0. 214858	-1. 720405	0.000000	0.000000	0.000000	-4. 362096	0	
5	0. 269680	-2.054426	0. 000000	0.000000	0.000000	-3. 590047	0	
6	0. 376089	2. 584200	0.000000	0.000000	0.000000	-2. 606406	0	
7	0.426830	-2.770459	0.000000	0.000000	0.000000	-1.692542	0	
8	0. 469305	-2.874089	0. 000000	0.000000	0.000000	-0. 982028	0	
9	0. 507782	-2. 925259	0.000000	0.000000	0.000000	-0. 021202	0	
10	0. 545942	-2.877574	0.000000	0.000000	0.000000	0. 941741	0	
11	0. 588034	-2. 777518	0. 000000	0.000000	0.000000	1. 651457	0	
12	0. 638423	-2. 594770	0.000000	0.000000	0, 000000	2. 566790	0	
13	0, 744127	-2. 072063	0.000000	0.000000	0.000000	3, 540674	0	
14	0.798745	-1. 739351	0,000000	0,000000	0.000000	4. 339777	0	
15	0. 860134	-1. 336378	0.000000	0.000000	0.000000	4. 997423	0	
16	0. 969761	-0. 457364	0, 000000	0.000000	0.000000	5. 283341	0	
17	1. 015603	0.000000	0. 000000	0.000000	0.000000	5. 354193	0	
31	0. 434316	-0,004508	0.000000	0.000000	0.000000	-5. 146969	0	
32	0, 512002	-0.886804	0.000000	0.000000	0,000000	~5 . 121062	0	
33	0. 563023	-1.720675	0.000000	0.000000	0.000000	-4. 314958	0	
34	0. 577460	-2, 348769	0. 000000	0.000000	0, 000000	-3. 054134	0	
35	0. 560879	-2. 770732	0.000000	0,000000	0.000000	-1.651349	0	
36	0. 509635	-2. 914496	0,000000	0,000000	0. 000000	-0.020206	0	
37	0, 457676	-2. 777795	0. 000000	0.000000	0.000000	1.608601	0	
38	0.440392	-2. 362858	0.000000	0.000000	0.000000	3, 019086	0	
39	0. 454110	-1.741912	0.000000	0.000000	0.000000	4. 249949	0	
40	0. 504462	-0. 914596	0.000000	0.000000	0.000000	5. 176408	0	
41	0. 585029	-0.004482	0.000000	0.000000	0.000000	5. 362676	0	
							-+	
IX. VALUE	1. 015603	0.000000	0, 000000	0.000000	0. 000000	5. 362676		
POINT	(17)	(17)	(41)	(41)	(41)	(41)		

1 < KANSAS2 V2.2 > TITLE(MALDIVES NO.9 GIRLS SECONDARY) STAFF(YEC) DATE(2009/04/18) PAGE= 16 **** NODAL POINT REACTION FORCES **** CASE(DL+LL) LABEL(CHOUK! OURYOKU) POINT X Υ Z М-Х M-Z М-Х (KN) (KN) (KN) (KN. M) NO. (KN. M) (KN.M) 1 0.000000 40.550000 0.000000 0.000000 0.000000 0.000000 17 0.000000 40.550000 0.000000 0.000000 0.000000 0.000000 TOTAL 6. 608492E-12 8. 110000E+01 0. 000000E+00 0. 000000E+00 0. 000000E+00 -6. 962486E-14 LOAD TOTAL 0. 000000E+00 -8. 110000E+01 0. 000000E+00

79

TV13

JV14

TV15

TV16

TV17

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< KANSAS2 V	72.2 > TITLI	E(MALDIVES	NO.9 GIRLS	SECONDARY) STA	AFF (YEC) DAT	E(20 09/04	i/18) í	PAGE= 18
****	* STRE!	SSES IN	BEAMI	ELEMEN		E(DL+LL) l	.ABEL (CI	HOUKT OURYO	kU)
	+	BENDING	MOMENT	+	+	SHE	AR	+	+- AXIAL	FORCE -+	TWIST
MEMBER Name	MZ-1 (KN. M)	MZ-J (KN. M)	MY-1 (KN. M)	(KN' W) WA-1	QZ-I (KN)	QZ-J (K n)	(KN) GA-1	(KN)	N-1 (KN)	(KN) M-1	MOMENT (KN. M)
TV18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	42. 51	42. 51	0. 000
TV19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-47. 03	-47. 03	0.000
TV20	0.000	0.000	0.000	0.000	0.000	0.000	0. 000	0.000	42. 48	42. 48	0.000
MAX. VALUE	0. 782	0. 782	0. 000	0. 000	0.000	0. 000	0, 827	0. 827	192. 98	192. 98	0. 000
(MEMBER)	(TB09)	(TB08)	(TBO1)	(TB01)	(TBO1)	(TB01)	(TB08)	(TB08)	(TB08)	(TB08)	(TB01)
MIN. VALUE	-0. 138	-0. 138	0.000	0.000	0.000	0.000	~0.825	-0.825	-189. 93	-189. 93	0.000
(MEMBER)	(TBO2)	(TBO1)	(TBO1)	(TB01)	(TBO1)	(TB01)	(TBO9)	(TB09)	(TT06)	(TT06)	(TB01)

****	MARY OF ANALYSIS*****	
	MALDIVES NO. 9 GIRLS SECONDARY	<u> </u>
STAFF !		! !
	2009/06/13 11:21:09	n! !
	2-DIMENSIONAL ANALYSIS (IN-PLANE, PLANE-STRES)	! !
NODAL !	(28)	! ! !
!		! 53)! ! !
CASE(1)! !! !! !! !!	BODY FORCE (0)! NODAL FORCE (7)! ENFORCED DISP. (0)! MID LOAD <beam> (0)! PRESSURE LOAD (0)! PRESSURE LOAD (0)! LINE FORCE (0)! TEMP. LOAD <beam> (0)! TEMP. LOAD <shell> (0)! TEMP. LOAD <solid> (0)!</solid></shell></beam></beam>	7) ! ! ! ! ! ! ! ! ! !
LOAD !		! ! !
CONDITION!	BOUNDARY FIX OR SPRING (Y)! DISTRIBUTED SPRING (N)!	! !
SPECIAL ! FUNCTION !	REMAIN PLANE (N)! MULTIPOINT CONSTRAINTS (N)!	!)!)!
RUN CASE !		! ! !
STRESS !	! ANALYSIS ! (o)! METHOD ! DIRECT SPARSE SOLVE	: ! } !
PLOT DATA!	()! CPU TIME ! 0.031 SEC	: !

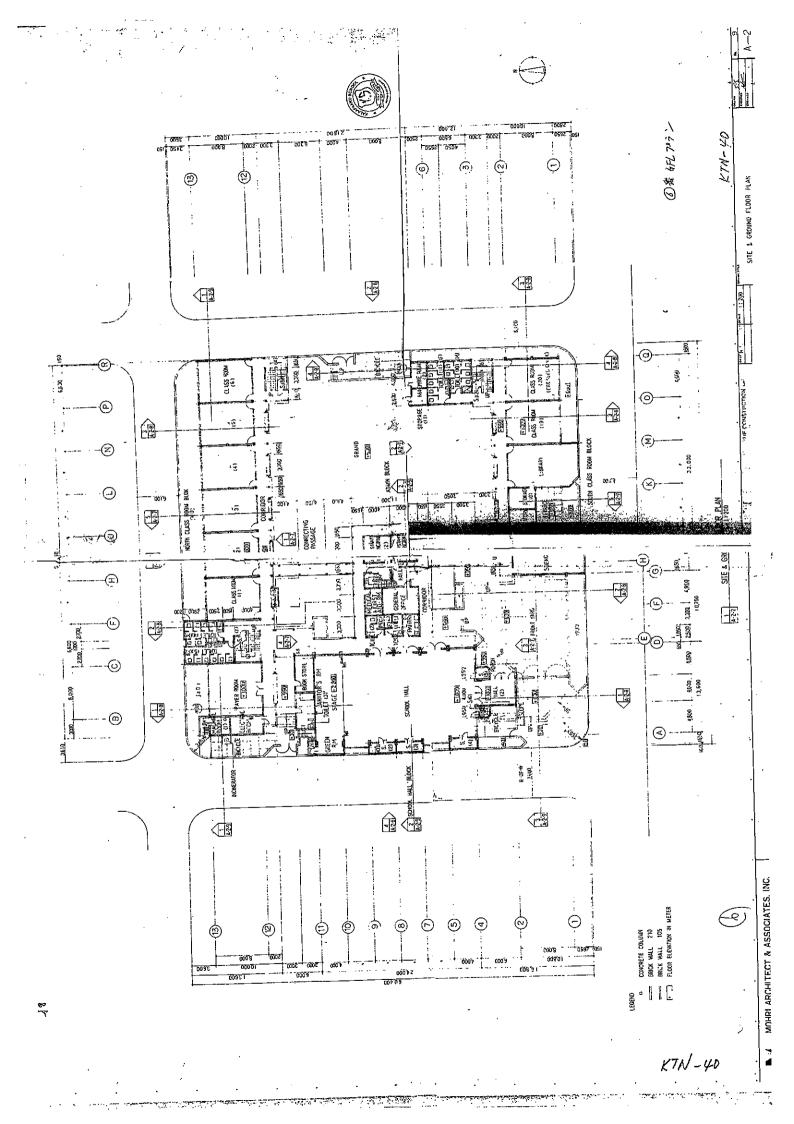
BY PC-WINDOWS KANSAS2

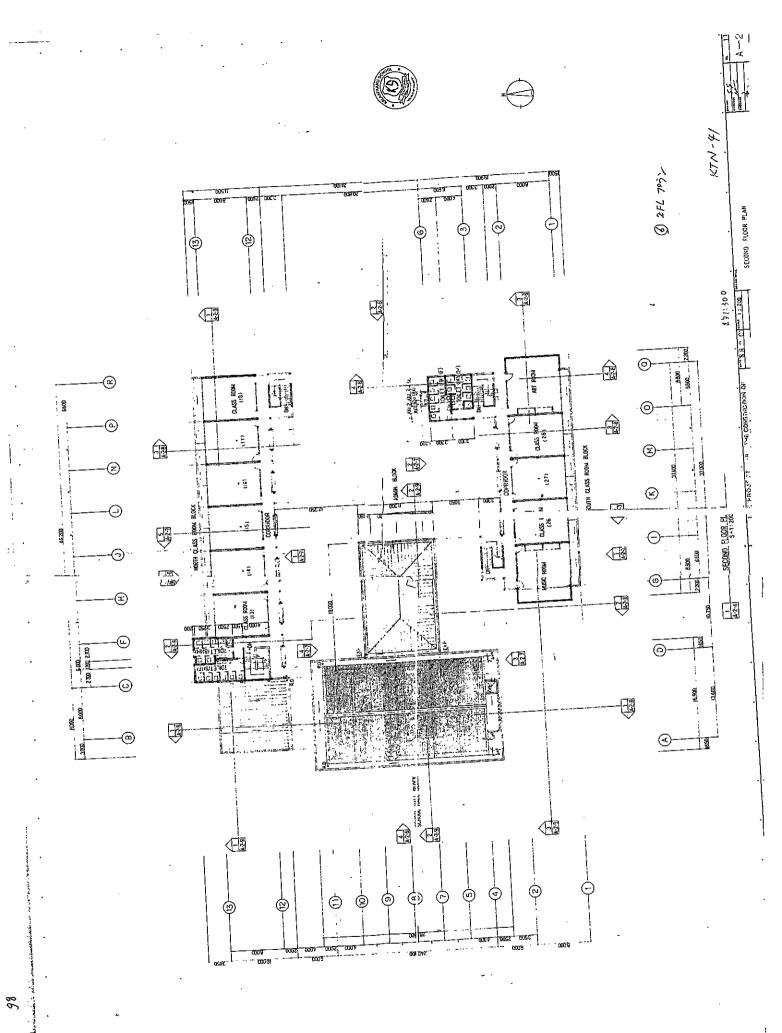
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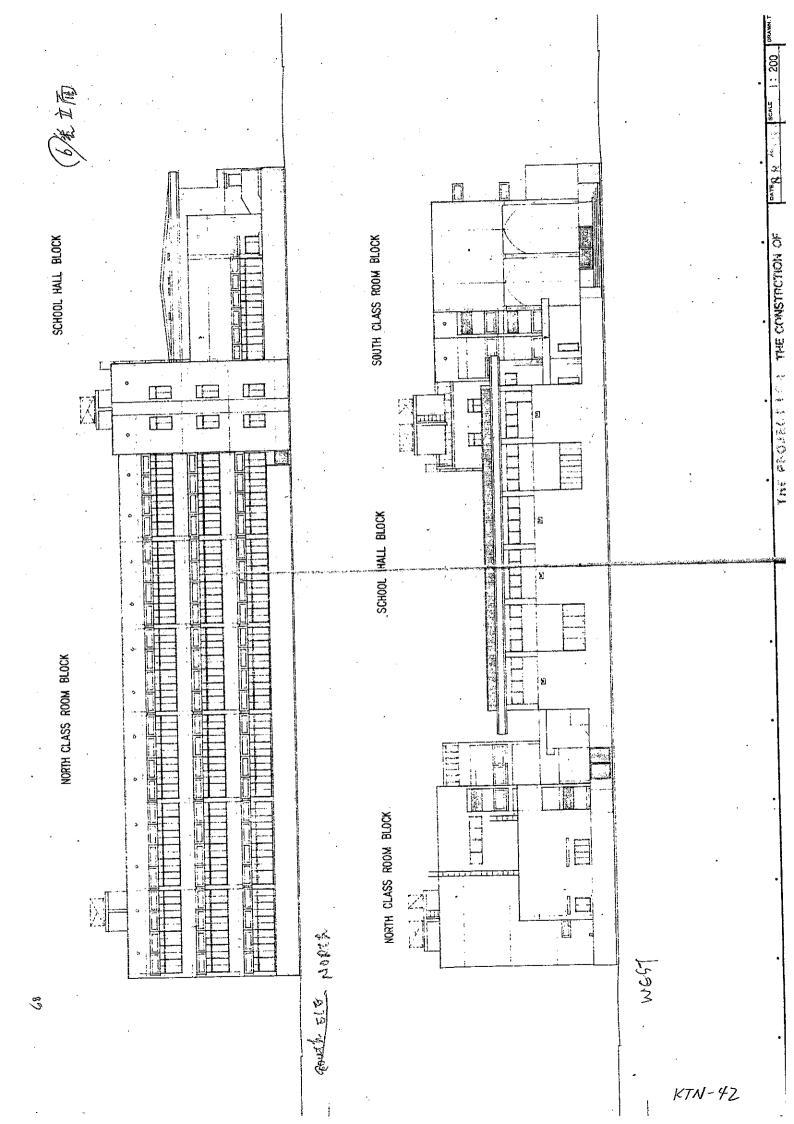
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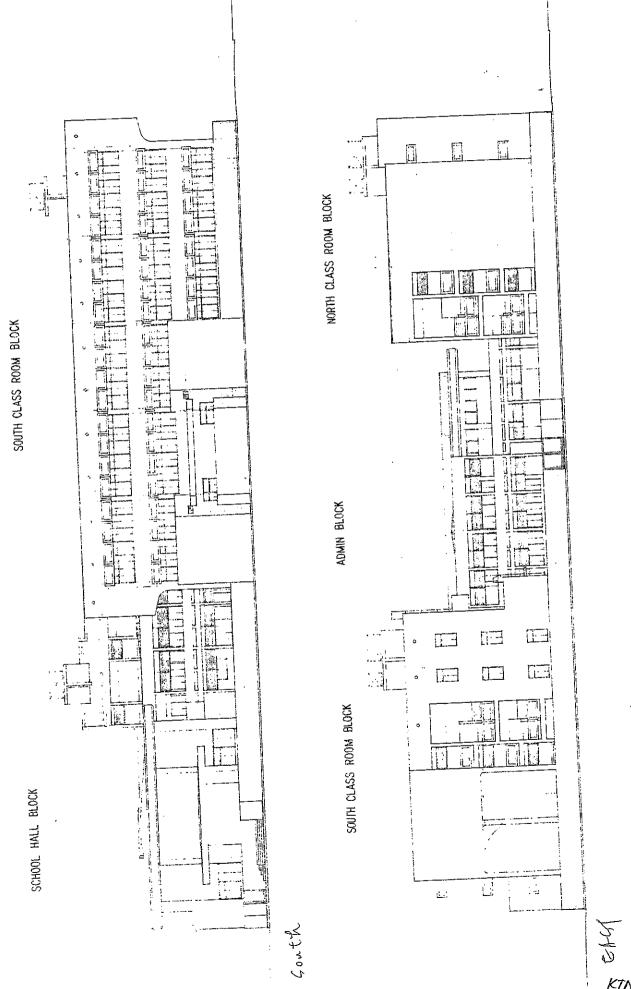
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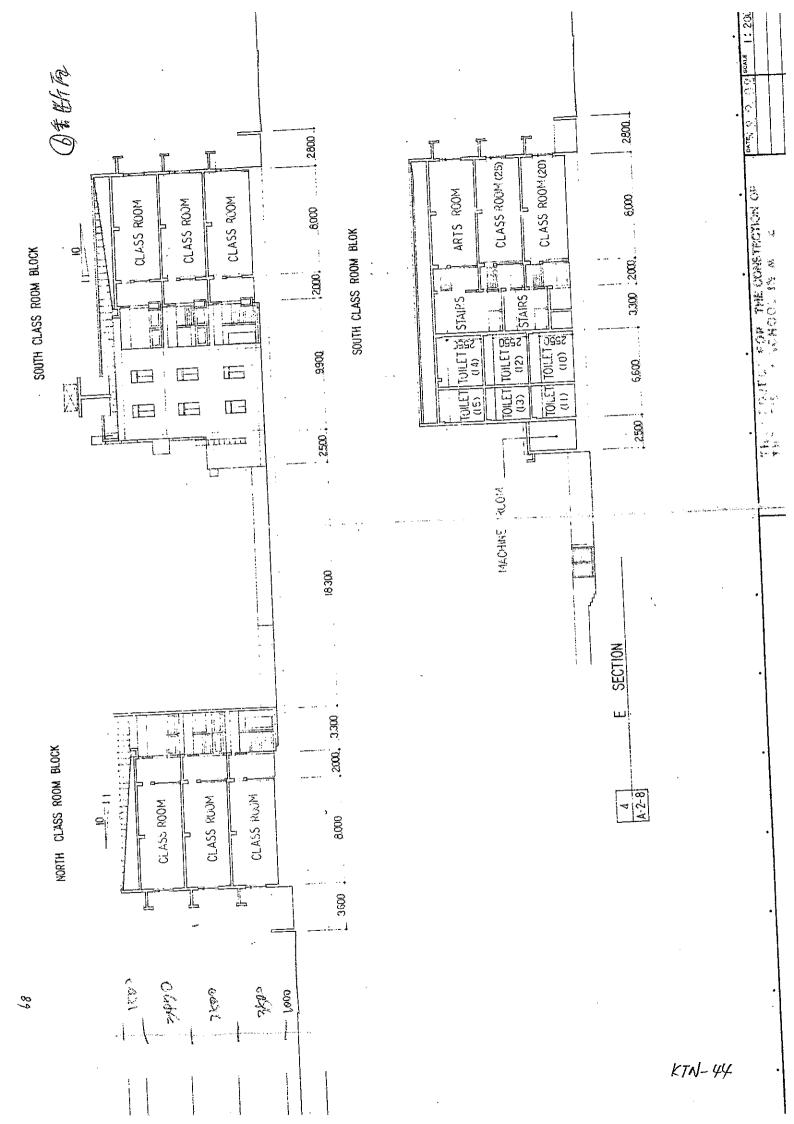




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NORTH CLASS ROOM BLOCK

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