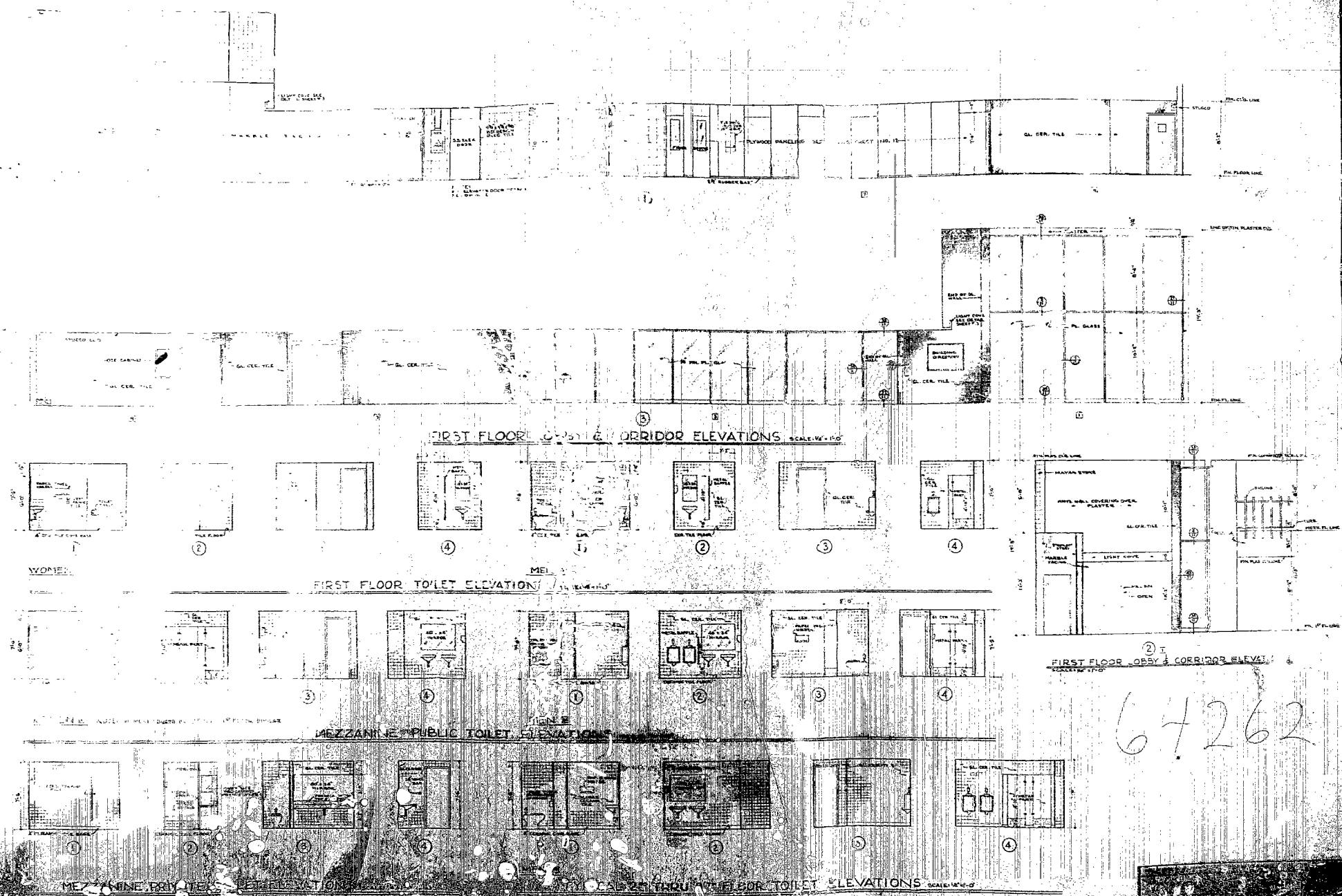


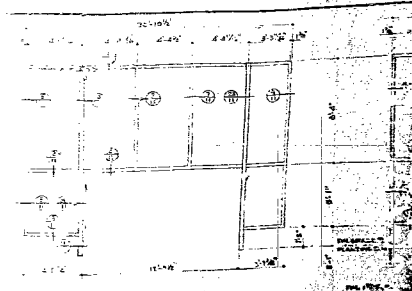


64262-09

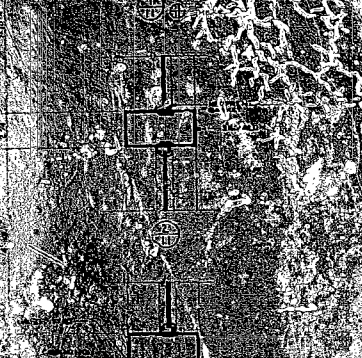
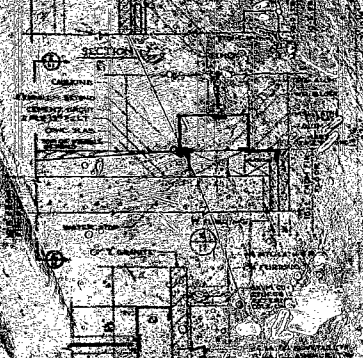
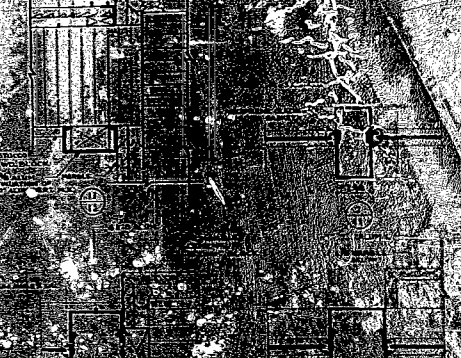
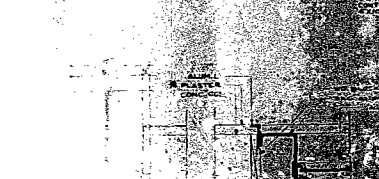
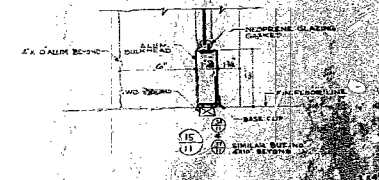


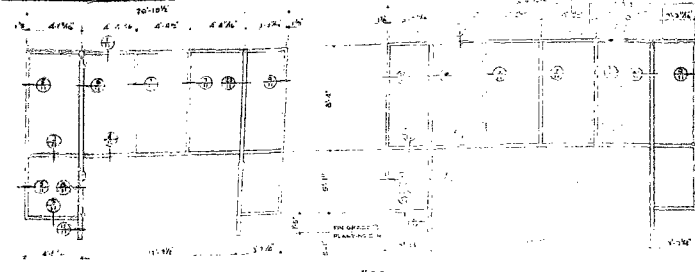
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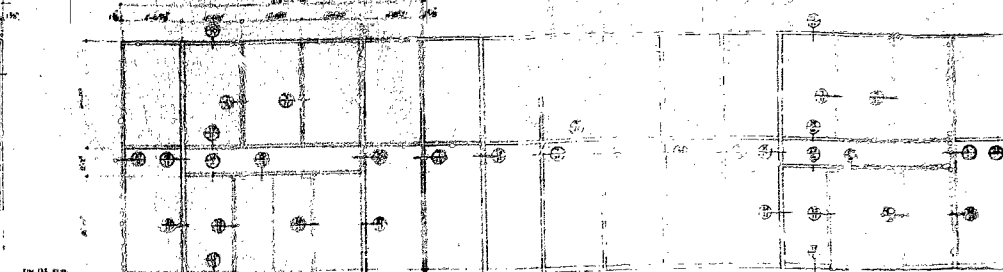


ELEVATION OF 1ST FLOOR WINDOWS
AT NORTH SIDE
SCALE 1/8" = 1'-0"

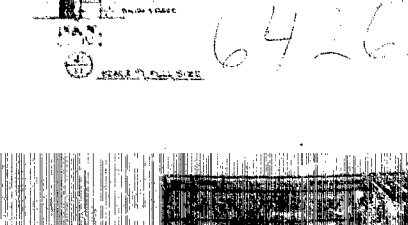
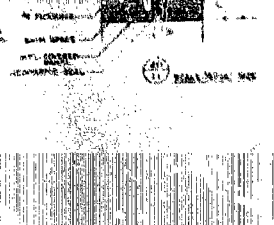
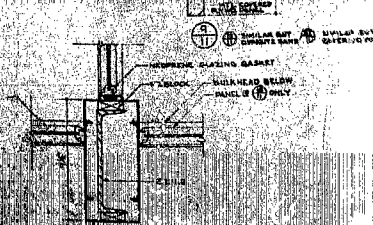
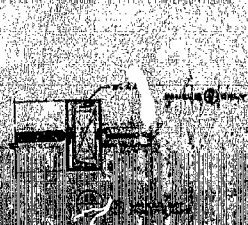
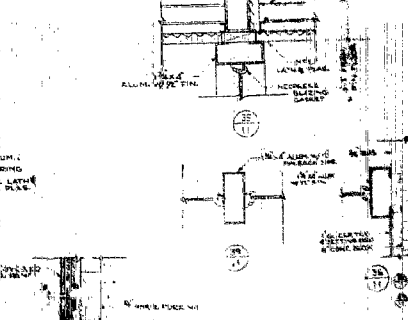
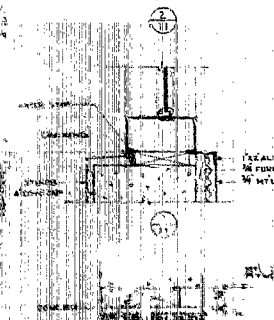
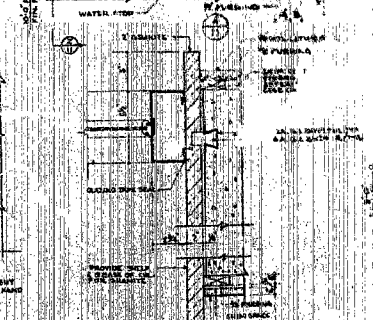
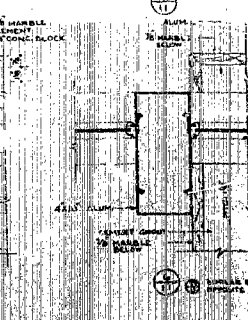
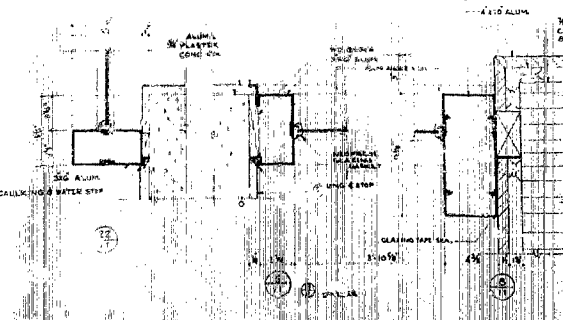
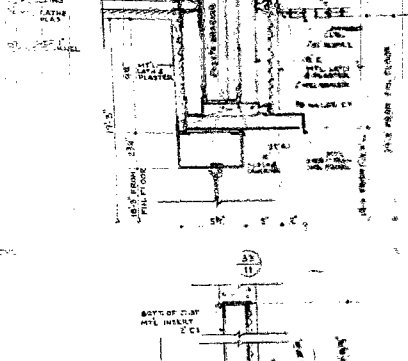
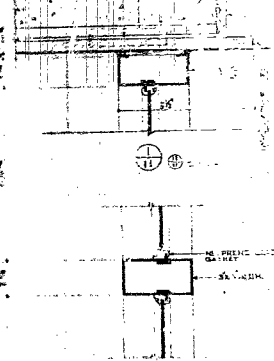
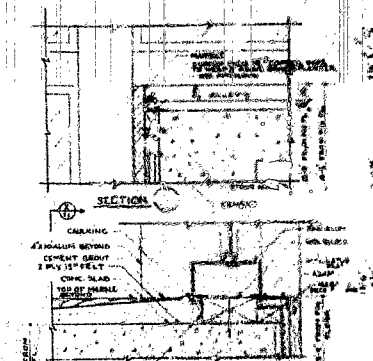
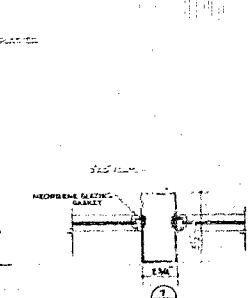
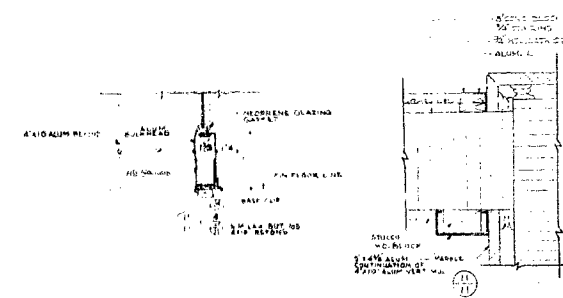




ELEVATION OF 1ST FLOOR WINDOWS AT NORTH SIDE
SCALE 1/8" = 1'-0"

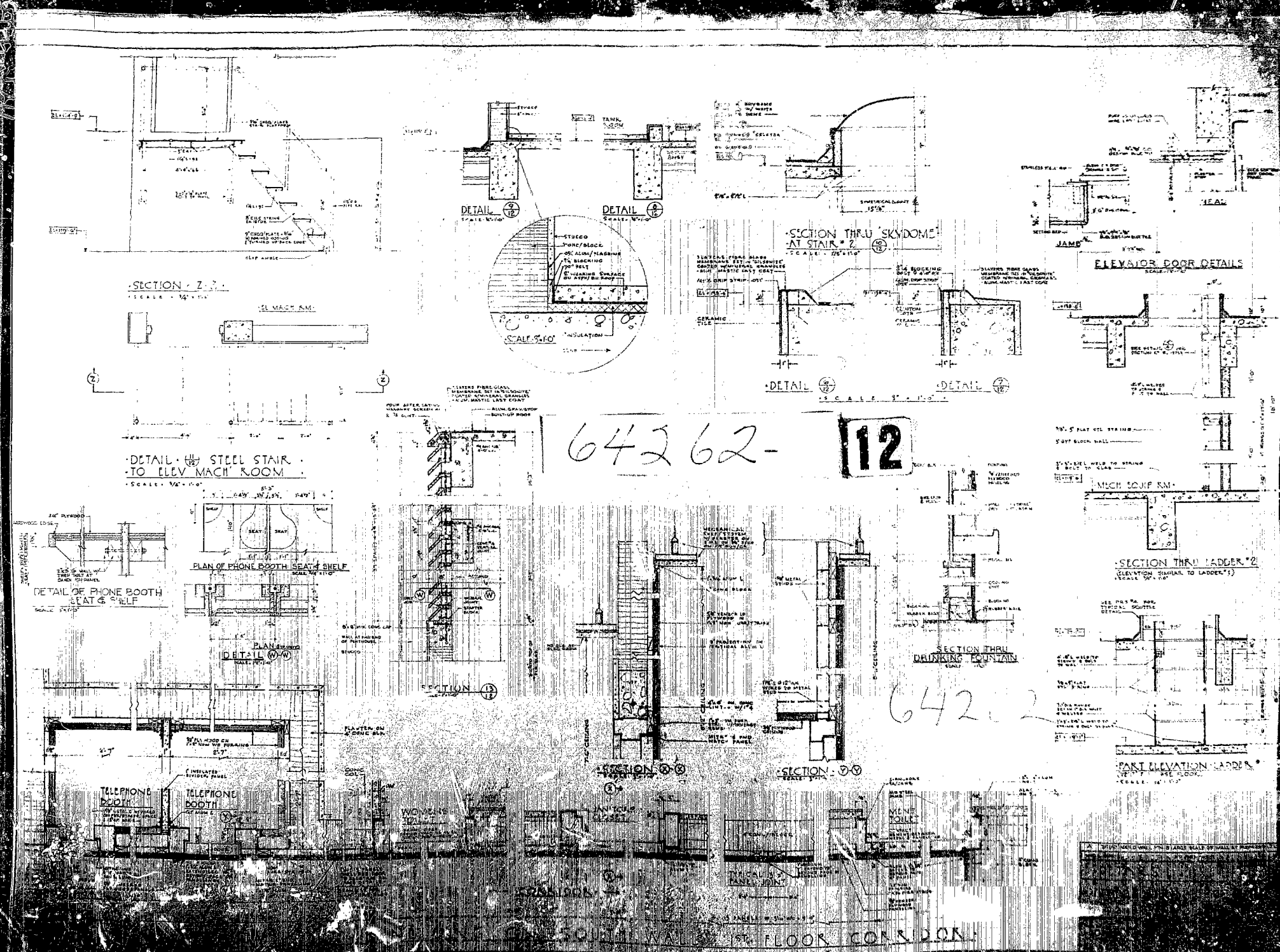


ELEVATION OF 1ST FLOOR WINDOWS AT SOUTH SIDE
SCALE 1/8" = 1'-0"

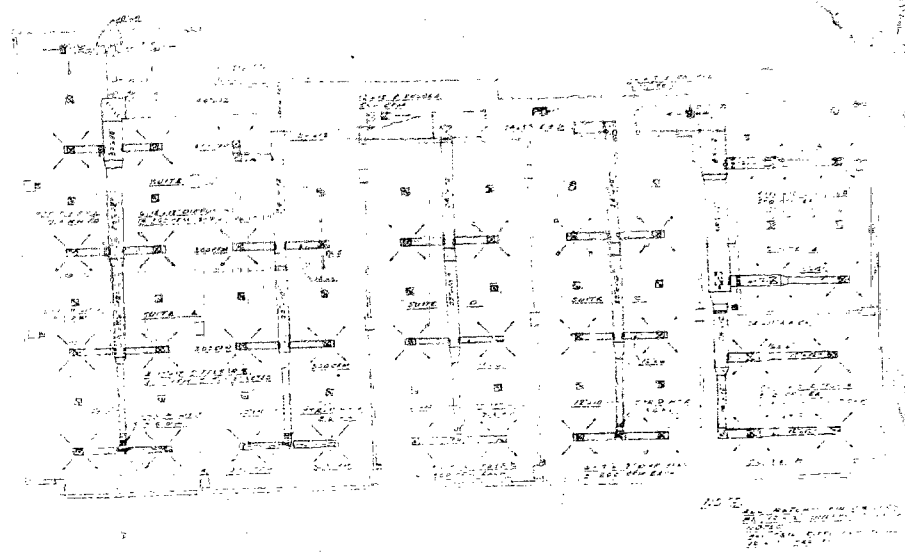


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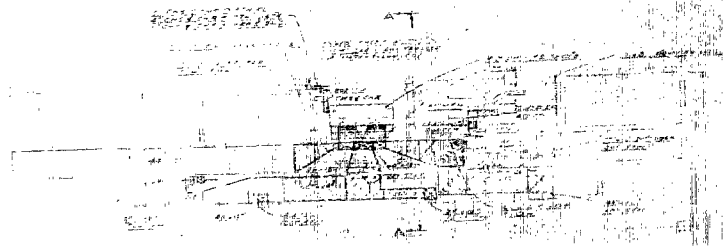
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SECTION S-A



TYPICAL DISTRIBUTION LAYOUT FOR UNIT COST ESTIMATE ONLY

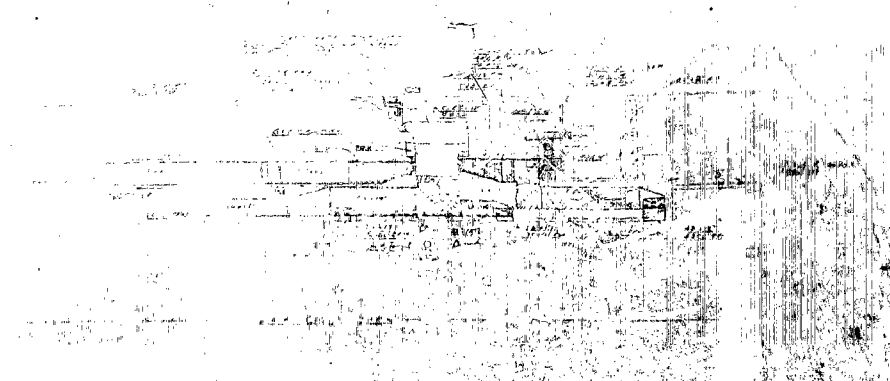
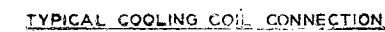


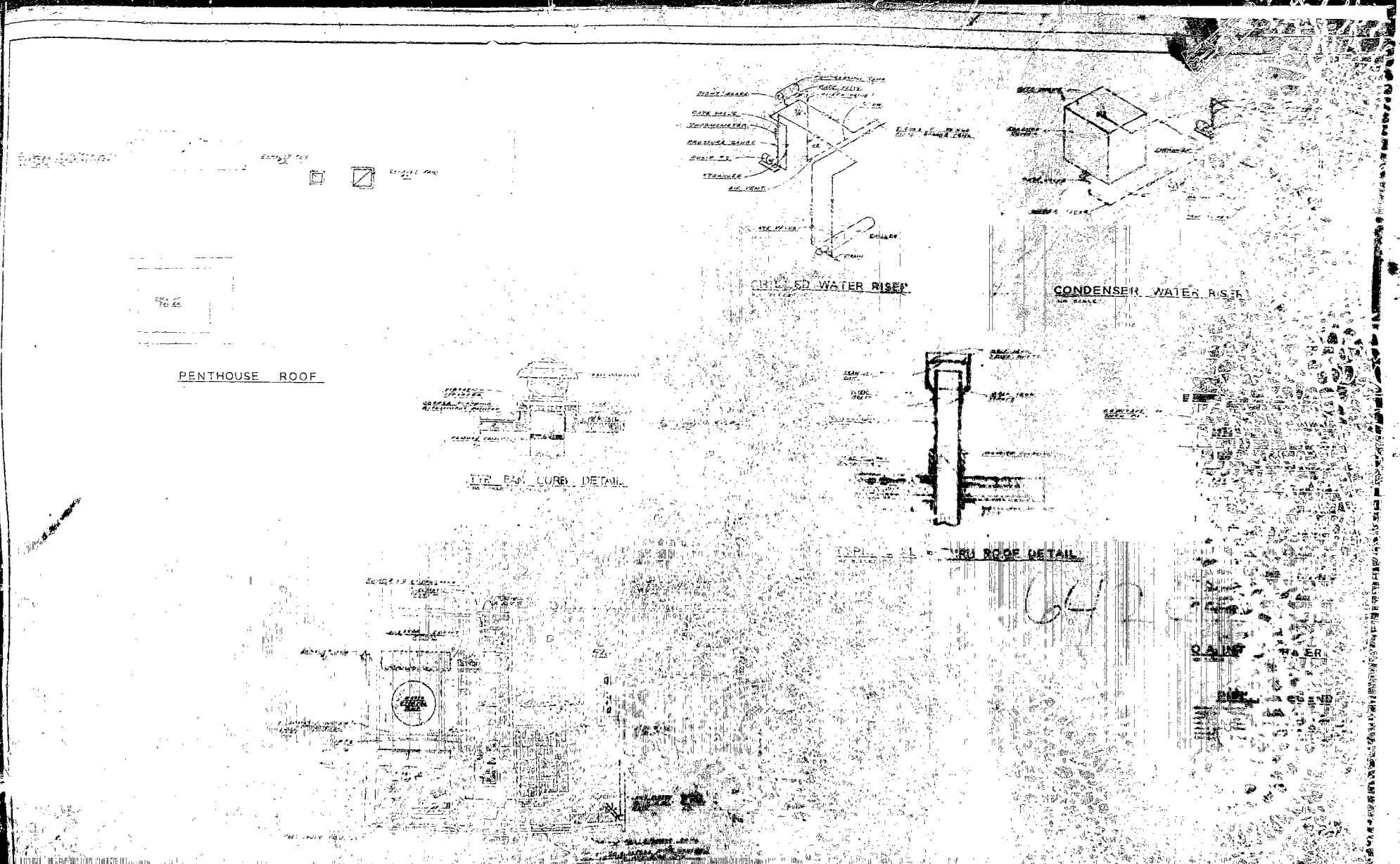
5TH FLOOR ONLY

Figure 1 illustrates the experimental setup. A subject is seated at a table, looking at a video screen. A camera is positioned above the screen. A horizontal bar is placed between the subject and the screen. The screen displays a target area. The subject's hand is positioned near the bar. The diagram is labeled with 'SUBJECT', 'CAMERA', 'VIDEO SCREEN', 'HORIZONTAL BAR', and 'TARGET AREA'.

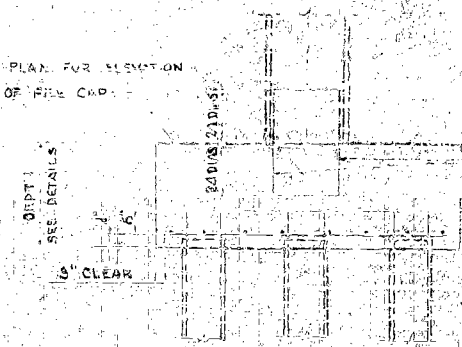
[illegible][illegible]

PAN		SCHEDULE	
NAME	NAME	DATE	TIME
1. NAME	1. NAME	1. DATE	1. TIME
2. NAME	2. NAME	2. DATE	2. TIME
3. NAME	3. NAME	3. DATE	3. TIME
4. NAME	4. NAME	4. DATE	4. TIME
5. NAME	5. NAME	5. DATE	5. TIME
6. NAME	6. NAME	6. DATE	6. TIME
7. NAME	7. NAME	7. DATE	7. TIME
8. NAME	8. NAME	8. DATE	8. TIME
9. NAME	9. NAME	9. DATE	9. TIME
10. NAME	10. NAME	10. DATE	10. TIME

[illegible]



NOTE: SEE PLAN FOR ELEVATION
TOP OF PILE CAP



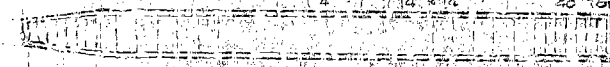
REINFORCE SAME NO. 4
SIZE AS COL BARS SEE
C SCHEDULE

TYPICAL PILE CAP DETAIL

SCALE: 3/8" = 1'-0"

REINFORCE SAME NO. 4
SIZE AS COL BARS SEE
C SCHEDULE

0.5 (10' x 10' PILE)	15 TONS
1.0 (12' x 12' PILE)	22.5 TONS
1.5 (14' x 14' PILE)	33.75 TONS
2.0 (16' x 16' PILE)	45 TONS (SEE NOTE)



REINFORCE SAME NO. 4
SIZE AS COL BARS SEE
C SCHEDULE

PRECAST CONCRETE PILE DETAIL

CONCRETE: 2000 PSI (MIN. 28 DAYS) FOR PILE CAP
REINFORCE: ASTM SPEC. A615 GRADE 60

NOTE: 1. 10 TON PILE CAP WITH MOUNTED UNITS
DRIVEN BY 10 TON DRUM OR 1000 LB. HAMMER
2. 10 TON PILE CAP WITH MOUNTED UNITS
DRIVEN BY 10 TON DRUM OR 1000 LB. HAMMER

OTHER BEARING PILES

ALL BEARING PILES SHALL BE DRIVEN BY 10 TON DRUM OR 1000 LB. HAMMER

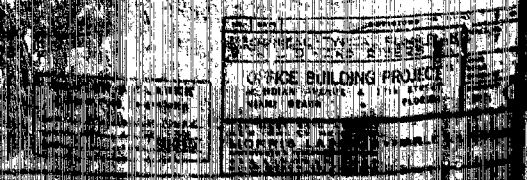
REINFORCE SAME NO. 4
SIZE AS COL BARS SEE
C SCHEDULE

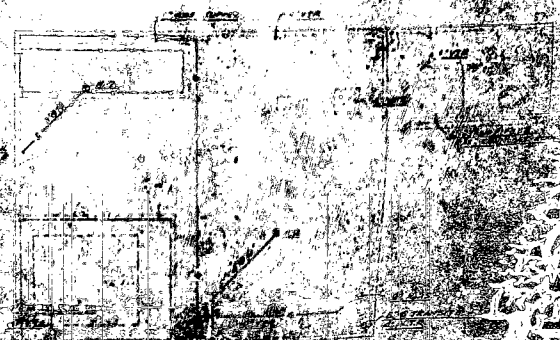
REINFORCE SAME NO. 4
SIZE AS COL BARS SEE
C SCHEDULE

REINFORCE SAME NO. 4
SIZE AS COL BARS SEE
C SCHEDULE

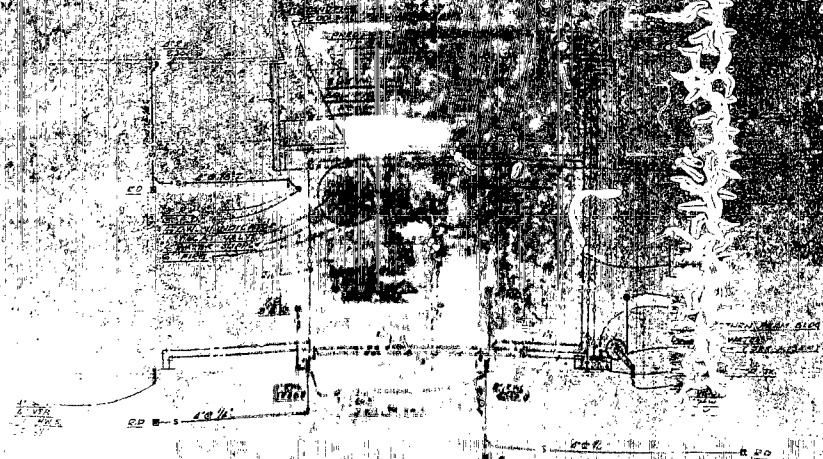
642 22-29-79

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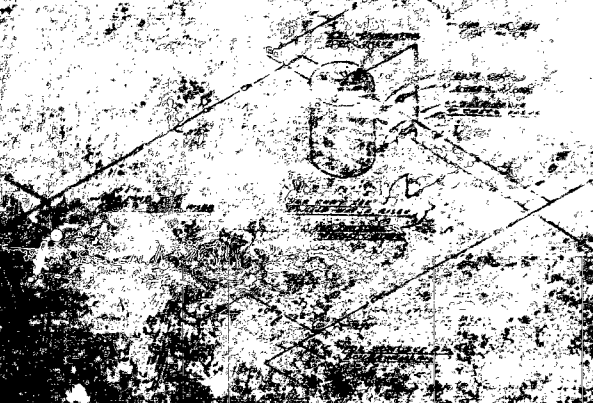




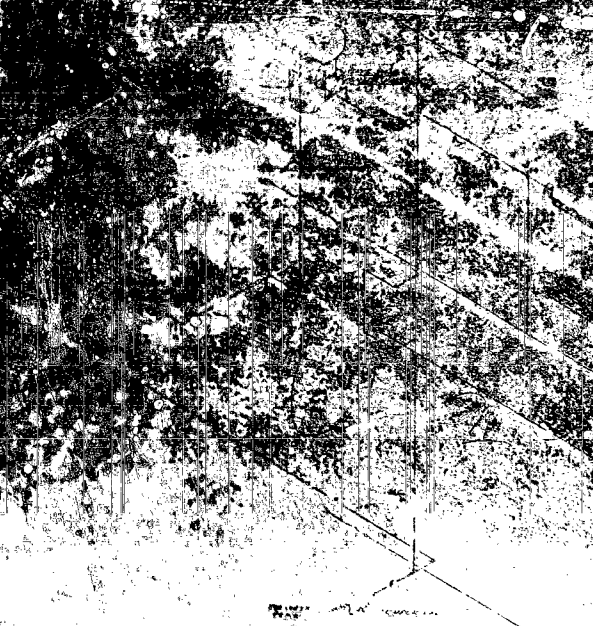
PENTHOUSE ROOF



PENTHOUSE & ROOF PLAN



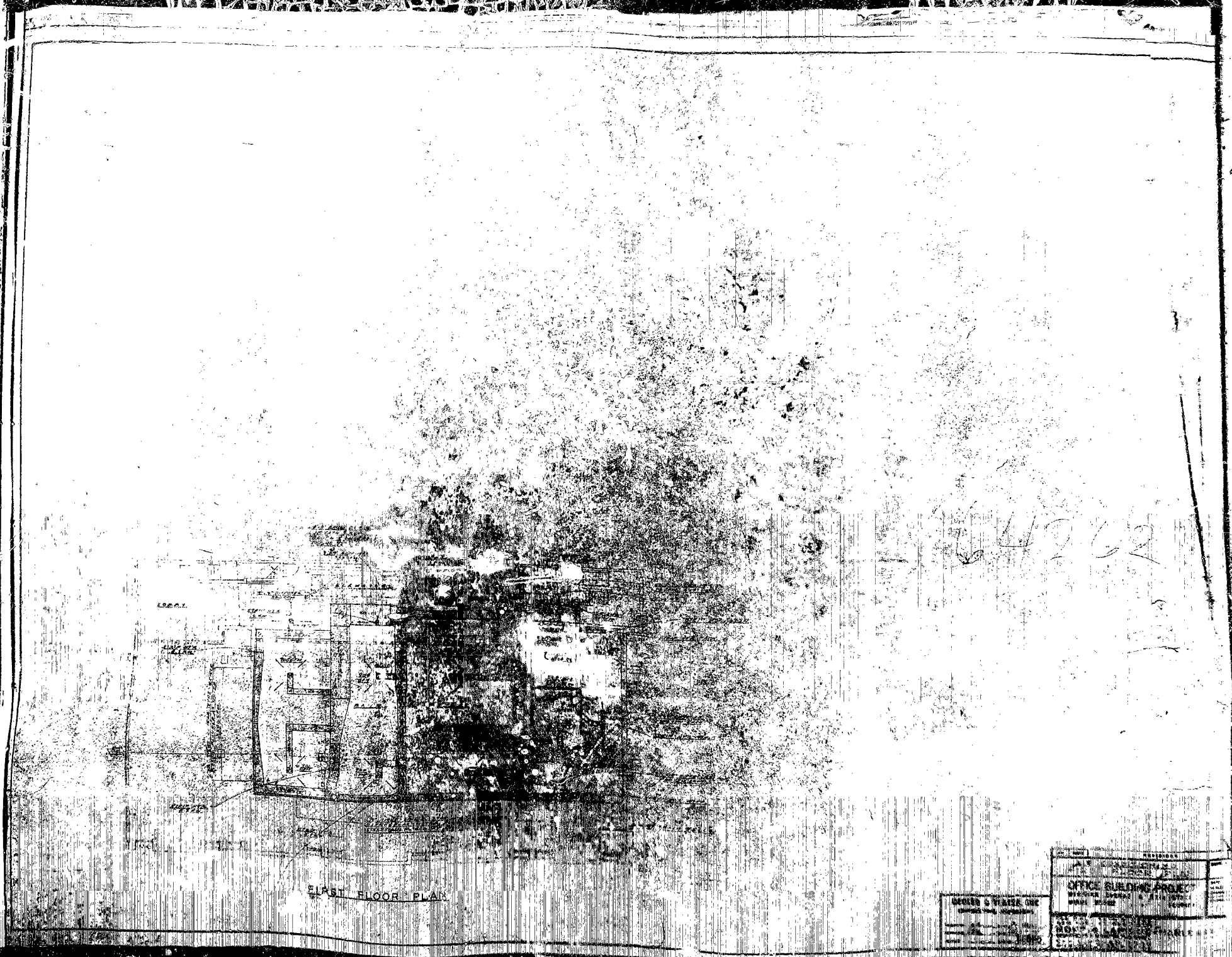
EQUIPMENT ROOM COLD WATER PIPING RISER



EQUIPMENT ROOM STANDPIPE RISER

OWLER & CLARKE
CONSULTING ENGINEERS
1111 S.W. 1st Ave.
Miami, Florida 33135

NO.	DATE	REVISION
1	10/1/68	MECHANICAL, PENTHOUSE & ROOF PLAN, RISES
2	10/1/68	OFFICE BUILDING PROJECT
3	10/1/68	MECHANICAL, PENTHOUSE & ROOF PLAN, RISES
4	10/1/68	MECHANICAL, PENTHOUSE & ROOF PLAN, RISES
5	10/1/68	MECHANICAL, PENTHOUSE & ROOF PLAN, RISES
6	10/1/68	MECHANICAL, PENTHOUSE & ROOF PLAN, RISES
7	10/1/68	MECHANICAL, PENTHOUSE & ROOF PLAN, RISES
8	10/1/68	MECHANICAL, PENTHOUSE & ROOF PLAN, RISES
9	10/1/68	MECHANICAL, PENTHOUSE & ROOF PLAN, RISES
10	10/1/68	MECHANICAL, PENTHOUSE & ROOF PLAN, RISES

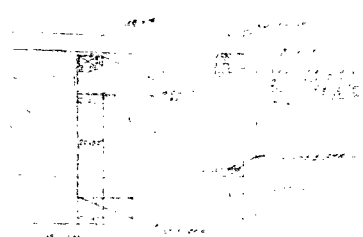


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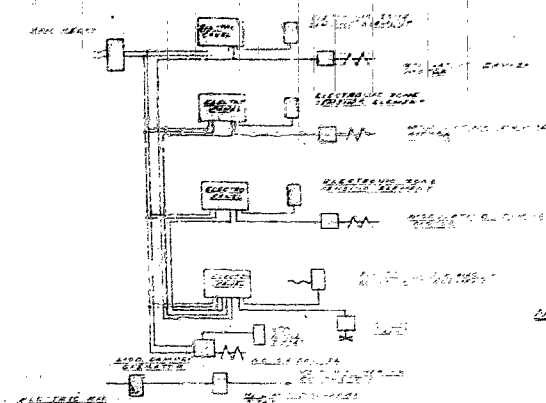
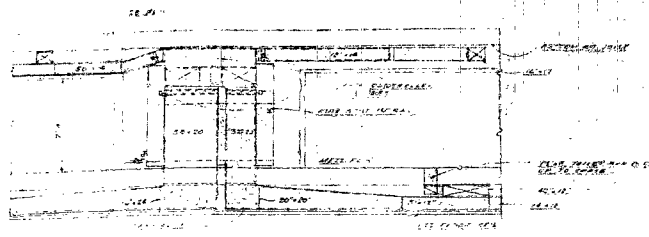
FIRST FLOOR PLAN

OFFICE BUILDING PROJECT	
DESIGNED BY	CHARLES H. HARRIS
DATE	1940
DRAWN BY	
DATE	
CHECKED BY	
DATE	

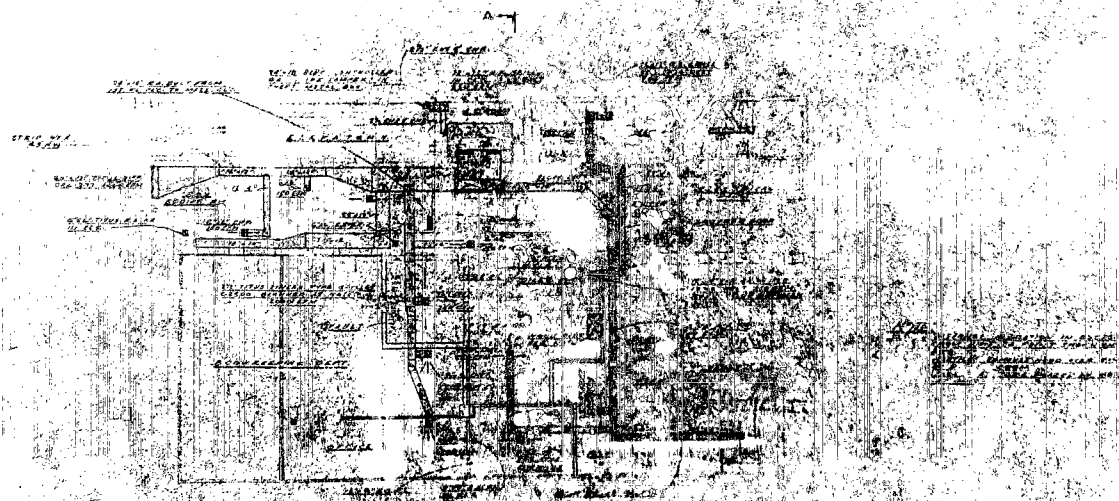
SECTION A-A



SECTION F-B



ELECTRONIC CONTROL DIAGRAM



MEZZANINE FLOOR PLAN

OFFICE BUILDING PROJECT	
DESIGNED BY	CLARK & CLARK
DATE	1948
DRAWN BY	
DATE	
CHECKED BY	
DATE	
APPROVED BY	
DATE	

MARK	DATE	TIME	TEMP	WIND	WIND DIR	WIND SPC	WIND DUC	REMARKS
98-21	2	28	10.3	10	10	10	10	
22	12	28	10.3	10	10	10	10	
23	12	28	10.3	10	10	10	10	
24	16	28	10.3	10	10	10	10	
25	16	28	10.3	10	10	10	10	
26	16	28	10.3	10	10	10	10	
28	12	28	10.3	10	10	10	10	
29	16	28	10.3	10	10	10	10	
30	16	28	10.3	10	10	10	10	
31	8	28	10.3	10	10	10	10	EXT. 7-100 98-32
32	8	28	10.3	10	10	10	10	FROM 98-31
34	16	28	10.3	10	10	10	10	
35	16	28	10.3	10	10	10	10	
36	16	28	10.3	10	10	10	10	
37	8	28	10.3	10	10	10	10	EXT. 7-100 98-33
38	8	28	10.3	10	10	10	10	FROM 98-37
39	16	28	10.3	10	10	10	10	
40	16	28	10.3	10	10	10	10	
41	16	28	10.3	10	10	10	10	
43	12	28	10.3	10	10	10	10	
44	12	28	10.3	10	10	10	10	
45	12	28	10.3	10	10	10	10	

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CONCRETE BEAM SCHEDULE

OBOLER & CLARKE

SHEET NO.

RS

15

MARK	SIZE		ELEV. TOP OF BEAM	REIN. WHEEL SBR DETAIL					NO. SPAC. L&S	REMARKS
	WIDTH	DEPTH		A	B	C	D	E		
10B-1	8	15	110'-1	2#5	-	-	1#6	1#6	-	
2	8	15	110'-1	2#5	-	-	1#7	-	-	
3	8	20	110'-6	2#5	-	-	1#7	1#7	-	
4				2#5	-	1#7	4	1#7	14	100' L&S
5				2#5	-	1#6	5	1#7	14	100' L&S
6				2#5	-	-	-	1#6	-	
7	8	20	110'-6	2#5	-	-	-	1#6	1#6	
8				OMIT						
9	12	51	110'-6	2#5	-	-	2#7	-	10%	ADD 2#5 HOOKS - EAST FACE
10	8	18	110'-1	2#7	-	-	-	-	-	
11	14	28	110'-6	2#5	-	-	2#3	-	14	100' L&S
12	12	31	110'-1	2#5	-	-	-	-	-	
13	26	28	110'-6	2#5	-	-	-	-	-	
14	26	28	110'-6	2#5	-	-	1#6	1#6	-	100' L&S
15	8	20	110'-6	2#5	-	-	1#9	1#5	-	100' L&S
16	8	20	110'-6	2#5	-	-	1#7	1#5	10	100' L&S
17	12	23	110'-6	2#7	-	-	2#8	-	7	100' L&S
18	12	23	110'-1	2#5	-	2#5	2#2	1#1	-	100' L&S
19	12	28	110'-6	2#7	-	1#11	2#3	1#5	-	100' L&S
20	12	28	110'-1	2#7	-	-	-	1#6	1#2	100' L&S
21				2#7	-	-	-	1#1	-	do
22				2#7	-	-	-	1#6	-	do
23				2#7	-	-	-	1#7	-	do
24				2#7	-	-	-	1#6	1#5	do
25				2#7	-	-	-	1#11	1#10	100' L&S
26				2#7	-	-	-	1#11	-	100' L&S
27				2#7	-	-	-	1#11	1#10	100' L&S
28				2#11	-	1#10	2#1	1#11	2#10	100' L&S
29				2#11	-	1#10	1#1	1#11	-	100' L&S
30	12	28	110'-1	2#11	-	-	-	1#11	2#10	100' L&S
31	14	28	110'-6	2#11	-	2#10	1#10	1#6	2#6	100' L&S
32	14	28		2#8	-	-	-	1#10	-	100' L&S
33	8	24		2#8	-	-	-	1#6	-	100' L&S
34	8	24	110'-6	*	-	-	-	*	-	100' L&S
35	12	28	110'-1	2#10	-	2#10	2#2	1#11	1#7	100' L&S
36	12	33	110'-6	2#9	-	-	-	1#11	1#10	100' L&S
37	12	33		2#9	-	-	-	1#10	1#7	100' L&S
38	14	28		2#10	-	-	-	2#8	-	100' L&S
39	14	28		2#10	-	-	-	2#8	-	100' L&S
10B-40	14	28	110'-6	2#10	-	-	-	2#8	-	100' L&S

CONCRETE BEAM SCHEDULE

FLOOR: PENTHOUSE FLR. & MAIN ROOF	OBOLER & CLARKE	SHEET NO.
JOB: OFFICE BUILDING PROJECT	CONSULTING ENGINEERS	BS
LOC: MIAMI BEACH, FLORIDA	DRAWN BY: JUC	10
ARCH: MORRIS LAPIDUS, HARLE & LITMAN	APPROVED: JUC	
REV: SHT. 5-5	REVISED: JUC	

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MARK	SIZE		ELEV.	SPAN	S.F. DETAIL	#3 STIRRUPS		REMARKS
	WIDTH	DEPTH				NO.	SPACING	
2B-40	8	12			2#5	-	-	
41	24	28			1#11 3#11	4		1#11 3#11
42	24	28			1#11	-	-	RT END ONLY
43	24	28			1#11 3#11	-	-	
44	8	12			2#5	-	-	* HOOK INTO COL 11 OR 12 SEE PLAN FOR REINF.
44A	8	28			2#7	6	3"6	* EXT. 2'0" INTO WALL 2B-49
45	8	12			*	-	4" THROUGH	* FROM 2B-46
46	8	12			2#7	-	-	* THEN 2B-49 PIPE SLEEVE THIS REIN. SEE PLAN
47	24	28			1#11 3#11	4		1#11 3#11
48	24	28			1#11	8		RT END ONLY
49	24	28			1#11 4#11	5		1#11 4#11
50	8	12			2#5	-	-	LT END ONLY
51	12	12			1#11 1#6	8		1#11 1#6
52	12	12			1#11 1#6	-	-	RT END ONLY
53	8	12			2#5	12		1#3, 5#6
54	12	12			2#5 25	3#11 6#11		12" THROUGH
55	12	12			1#11 19	1#11		* EXT TO 14 OF 2B-55
56	12	12			1#11 2#11			* HOOK AT COL 13
57	24	28			2#10	20		1#4, 2#6, 6#8

CONCRETE BEAM SCHEDULE

FLOOR: 2nd FLR.	OBOLER & CLARKE	SHEET NO:
JOB: OFFICE BUILDING PROJECT	CONSULTING ENGINEERS	BS
LOC: MIAMI BEACH, FLORIDA	DRAWN BY: JLM/ML	10
ARCH: MORRIS LADYOUS, EARLE & LITTMAN	APPROVED: JLM	
REV: 1/1/53	DATE: 1/23/53	
	REVISED: JLM	
	DATE: 6/10/53	

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MARK	SIZE		ELEV. TOP OF BEAM	REIN. TYP.	NO. OF BARS	SPACING	#3 STIRRUPS		REMARKS
	WIDTH	DEPTH					NO.	SPACE	
3B-	8	23	1.5	2	1	12	10	10	
2									
3									
4									
5									
6									
7									
8	8	23	1.5	2	1	12	10	10	
9	8	23	1.5	2	1	12	10	10	
10	8	23	1.5	2	1	12	10	10	
11	8	23	1.5	2	1	12	10	10	
12	8	23	1.5	2	1	12	10	10	
12A	8	23	1.5	2	1	12	10	10	
13	8	23	1.5	2	1	12	10	10	
14	8	23	1.5	2	1	12	10	10	
15A	14	24	1.5	2	1	12	10	10	
15	8	24	1.5	2	1	12	10	10	
16	12	28	1.5	2	1	12	10	10	
17									
18									
19									
20	12	28	1.5	2	1	12	10	10	
21	16	28	1.5	2	1	12	10	10	
22									
23									
24									
25									
26	16	28	1.5	2	1	12	10	10	
27	8	12	0.0	2	1	12	10	10	
27A	8	16	-5.72	1	1	12	10	10	
28	20	28	0.0	2	1	12	10	10	
29	20	28	0.0	2	1	12	10	10	
30	20	28	0.0	2	1	12	10	10	
31	8	62							
32	8	62							
33	8	12							
34	20	28							
35	20	28							
36	20	28							
3B-7	8	44	0.0	2	1	12	10	10	

CONCRETE BEAM SCHEDULE

FLOOR: 3rd FLR.
 JOB: OFFICE BUILDING PROJECT
 LOC: MIAMI BEACH, FLORIDA
 ARCH: MORRIS LAPIDUS, HARLEY & LIDMAN

OBOLER & CLARKE
 CONSULTING ENGINEERS
 DRAWN BY: BS/MLL DATE: 10/1/77
 APPROVED: JLC DATE: 10/1/77

SHEET NO.
 BS
 11

64262-

45

MARK	SIZE		ELEV. TOP OF BEAM	REINF. STEEL		SEC. DETAIL		#3 STIRRUPS		REMARKS
	WIDTH	DEPTH		A	B	COVER	COL. D	E	NO. @ EA. END	
5A-21	16	23	0'-0"	2#11	—	2#10	20	1#10	4#10	20' 0" @ EA. END
22	16	23	0'-0"	2#11	—	2#10	14	1#10	—	20' 0" @ EA. END
23	16	23	0'-0"	2#11	—	2#10	—	1#10	3#10	20' 0" @ EA. END
24	16	23	0'-0"	2#11	—	3#11	21	1#11	3#11	20' 0" @ EA. END
25	16	23	0'-0"	2#11	—	3#11	15	1#11	—	20' 0" @ EA. END
26	16	23	0'-0"	2#11	—	—	—	1#11	3#10	20' 0" @ EA. END
27	16	23	0'-0"	2#11	—	2#11	22	1#11	2#11	20' 0" @ EA. END
28	16	23	0'-0"	2#11	—	2#10	11	1#11	—	20' 0" @ EA. END
30	16	23	0'-0"	2#11	—	2#10	10	1#11	2#11	20' 0" @ EA. END * Hook into Col 10
31	16	23	0'-0"	2#11	—	2#11	23	1#11	2#11	20' 0" @ EA. END
32	16	23	0'-0"	2#11	—	2#10	11	1#11	—	20' 0" @ EA. END
34	16	23	0'-0"	2#11	—	2#11	11	1#11	2#11	14' 0" @ EA. END * Hook into Col 11
35	16	23	0'-0"	2#11	—	2#11	24	1#11	2#11	20' 0" @ EA. END
40	16	23	0'-0"	2#11	—	4#10	19	1#11	—	16' 0" @ EA. END
41	16	23	0'-0"	4#11	—	—	—	1#11	3#11	22' 0" @ EA. END
43	16	23	0'-0"	2#11	—	2#11	25	1#11	4#10	10' 0" @ EA. END
44	16	23	0'-0"	2#11	—	2#10	17	1#10	—	8' 0" @ EA. END
5A-47	16	23	0'-0"	2#11	—	—	—	1#10	2#10	— * Hook into Col 10
NOTE: 6B BEAMS SAME AS 5B BEAMS SCHEDULED ABOVE										

CONCRETE BEAM SCHEDULE

FLOOR: 5th FLR.	OBOLER & CLARKE	SHEET NO.
FOR: OFFICE BUILDING PROJECT	CONSULTING ENGINEERS	BS
LOC: MIAMI BEACH, FLORIDA	DRAWN BY: JS	13
ARCH: MORRIS LARIDUS, HARLE & LIERMAN	APPROVED: JLC	
REF. ENT: S-4	REVISED: —	

64262-

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MARK	SPAN	LOADS				REACTIONS				SIZE		MOMENTS			As		
		UNIF. T.B.	COAR. T.B.	UNIF. E.L.	COAR. E.L.	L.L. L.O.T.	R.L. R.O.T.	L.L. L.O.T.	R.L. R.O.T.	W	D	L	C	R	L	C	R
12-1	27.5	1120	214			333	18.1			8	30	90.5	87.8	65.0	274	2.0	1.61
2	5.5	1120				13.1	6.9					57.6	(T)	4.8	1.61	M.W.	M.W.
3	17.0	1120				3.2	7.0					7.8	2.4	45.6	M.W.	M.W.	1.13
4	24.5	1120				9.6	9.2					45.6	10.6	30.6	1.13	M.W.	1.01
5	11.0	1232				10.1	7.1					42.6	8	19.2	1.01	M.W.	.63
6	16.0	1232				10.1	7.7					25.3	16.1	21.6	.63	M.W.	.54
7	8.5	1120				3.6	5.8					12.3	6.1	21.9	.54	M.W.	.60
8	18.0	1120				12	10.1			8	30	29.1	20.5	26.3	.60	.50	.65
9						SAME AS 14P				8	30	SAME AS 14P			TYP		
10						27.3	19.5			8	31	122.0			293		
11										8	31	132.2			2.20		
12						SAME AS TYP				8	31	SAME AS TYP			AS TYP		
13										8	31	SAME AS TYP			AS TYP		
14												SAME AS TYP			AS TYP		
15A						16.2	16.2			14	23.5	121.5			392		
15	27.5	1120	214			14.2	22.7			8	31	111.3			267		
16	23.5	1120				7.7	10.3			12	28	47	23.7	45.3	.37	.57	1.21
17	16.5	1120				10.4	10.4					45.3	13.9	45	1.21	.69	1.22
18	24.5	1120				10.4	10.4					45.6	23.9	45.6	1.22	.64	1.22
19	24.5	1120				10.4	10.4					45.6	23.9	45.6	1.22	.64	1.22
20	23.5	1120				10.3	7.7			12	28	45.3	23.7	14.7	1.41	.57	.57
21	27.0	1120				16.4	12.2			12	28	48.4	24.7	67.1	1.56	1.61	1.80
22	13.5	1120				12	14.1			12	28	67.1	25.5	67.1	1.80	.68	1.80
23	27.0	1120				17.5	12.1			12	28	67.1	37.7	58.4	1.80	1.01	1.56
24	27.2	1120				17.5	12.1			14	35	121.4	137.1	215.4	3.25	3.68	4.56
25	23.5	1120				17.5	12.1			14	35	215.4	88.6	235.1	4.54	1.77	4.98
26	27.0	1120				17.5	12.1			14	35	235.1	137.1	215.4	4.54	2.46	2.71
27						SAME AS 14P				8	12	2.2					
27A						SAME AS 14P				8	16	41.2					
28	27.0	1120	40			17.5	12.1			14	35	140.8	140.8	140.8	1.00	3.37	4.36
29	23.5	1120				17.5	12.1			14	35	140.8	140.8	140.8	1.00	1.76	1.32
30	16.0	1120				17.5	12.1			14	35	140.8	140.8	140.8	1.00	1.81	.82
31	11.0	1120				17.5	12.1			8	24	140.8	140.8	140.8	1.00	1.81	1.26
32	11.0	1120				17.5	12.1			8	24	140.8	140.8	140.8	1.00	1.81	1.26
33						SAME AS 14P				8	12	2.2					
34	27.0	1120	4			17.5	12.1			14	35	140.8	140.8	140.8	1.00	3.37	4.36
35	13.5	1120				17.5	12.1			14	35	140.8	140.8	140.8	1.00	1.76	1.32
36	13.5	1120				17.5	12.1			14	35	140.8	140.8	140.8	1.00	1.76	1.32
37	11.0	1120				17.5	12.1			14	35	140.8	140.8	140.8	1.00	1.76	1.32
38	11.0	1120				17.5	12.1			14	35	140.8	140.8	140.8	1.00	1.76	1.32

DESIGN DATA

FLOOR: 9 th FL DRAWN BY: [Signature] CHECKED BY: [Signature]	BOBOL & CHAPPEL CONSULTING ENGINEERS 1000 [Address] [City], [State] [Zip]	SHEET NO: DS
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64762



KARK	SPAN	LOADS				REACTIONS				SIZE		MOMENTS			As		
		UNIF. T.L.	CONC. T.L.	UNIF. L.L.	CONC. L.L.	T.L. REACT	L.L. REACT	T.L. REACT	L.L. REACT	W	D	L	C	R	L	C	P
38	20	160	9.1/10			216				8	35	42.9			1.81		
39	24.0	351				50.0	48.5			14	35	138.1	125.9	203.6	3.70	3.57	3.98
40	25.5	351				40	43.0			14	35	201.6	65.1	262.9	3.98	1.38	5.22
41	24.0	351	8.3/14	12.2/14.2		32.0	31.6			14	35	264.9	205.0	186.7	5.22	4.01	3.66
42										8	12		11.1			1.77	
42A										8	16		25.5			1.35	
43	24.0	1120				13.0	14.9			12	28	45.1	31.9	61.6	1.21	.95	1.65
44	23.5	1120				14.6	13.2			12	28	61.6	30.1	43.2	1.65	.91	1.46
45	20.0	1120				9.0	8.7			12	28	42.2	2.7	.2	1.16	MIN	MIN
45A										8	20						
47	26.0	540	24.3/26.8			60.9	11.8			22	28	160.2	78.5	50.7	7.68	3.77	1.64
48	26.0	540	24.3/26.8			10.8	10.0			1	1	41.9	54.4	121.6	1.35	2.61	5.84
49	26.0	540	24.3/26.8			57.0	11.6			1	1	45.6	74.7	99.9	7.51	3.59	1.61
50	26.0	540	24.3/26.8			11.8	10.4			1	1	51.9	77.4	105.0	1.68	3.71	7.91
51	24.0	1920	25			20.9	15.7			14	28	23.7	11.8	120.2	.89	3.45	3.89
52	23.5	7120				25.0	26.3			14	28	120.2	31.3	125.4	3.87	1.01	4.05
53	23.0	2230				30.2	21.4			14	28	125.4	102.1		4.05	3.31	
54	23.0	1670	25			21.9	31.3			14	28	22.9	85.5	133.5	.96	3.21	2.31
55	23.5	2230				27.7	23.3			14	28	133.5	54.0	67.4	4.31	1.75	2.17
56	10.0	2230				17.8	9.9			14	28	67.4	3.8		2.17	MIN	
57A																	
58A																	

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DESIGN DATA

FLOOR	1	OBOLER	
DOB	10/10/1970	CONDUCT	
LOC	10/10/1970	DRAWN BY	
ACC	10/10/1970	APPROVED	

MARK	SP	D	W	T	S	SIZE	MOMENTS				As
							L	C	R	L	R
1											
2											
3											
4											
5											
6											
7											
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647262

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LOADS				REACTIONS				SIZE		MOMENTS				AS	
NO.	TYPE	VALUE	LOCATION	TOTAL	LEFT	RIGHT	REAR	W	D	L	C	P		C	R
1		15.4	15.4					8	24		52.8			1.75	
2		5.3	5.3					8	16		19.7			1.05	
3		2.2	2.2					8	12		2.3			1.2	
4		8.7	8.7					8	12		35.0			1.2	
5		11.7	11.7					8	18		32.2			1.8	
6								8	10		24.0			1.0	
7								8	12		2.3			1.2	
8		2.8	2.8					8	24		50.3			1.75	
9		2.1	2.1					10	24		97.5			2.3	
10		19.3	19.3					10	24		63.0			1.75	
11		2.5	2.5					10	24		90.5			2.3	
12		11.1	11.1								1.1				
13		25.1	25.1					10	24		100.0			2.3	
14		2.9	2.9					10	24		36.1			1.7	
15		21.1	21.1					14	24		6.1			1.7	
16		1.3	1.3					8	18		1.1				
17		17.3	17.3					14	24		60.0			2.0	
18		1.5	1.5					14	24		41.5			1.7	
19		21.0	21.0					14	24		49.7			1.7	
20		27.0	27.0					14	24		49.7			1.7	
21		1.0	1.0					14	24		3.0			1.7	
22		31.0	31.0					14	24		73.2			2.3	
23		27.0	27.0					14	24		73.2			2.3	
24		31.0	31.0					14	24		73.2			2.3	
25		1.0	1.0					14	24		3.0			1.7	
26		14.9	14.9					14	24		6.6			1.7	
27		18.5	18.5					14	24		6.6			1.7	
28		11.8	11.8					14	24		33.4			1.7	
29		21.0	21.0					14	24		33.4			1.7	
30		27.0	27.0					14	24		33.4			1.7	
31		21.0	21.0					14	24		33.4			1.7	
32		21.0	21.0					14	24		33.4			1.7	
33		21.0	21.0					14	24		33.4			1.7	
34		21.0	21.0					14	24		33.4			1.7	
35		21.0	21.0					14	24		33.4			1.7	
36		21.0	21.0					14	24		33.4			1.7	
37		21.0	21.0					14	24		33.4			1.7	
38		21.0	21.0					14	24		33.4			1.7	
39		21.0	21.0					14	24		33.4			1.7	
40		21.0	21.0					14	24		33.4			1.7	
41		21.0	21.0					14	24		33.4			1.7	
42		21.0	21.0					14	24		33.4			1.7	
43		21.0	21.0					14	24		33.4			1.7	
44		21.0	21.0					14	24		33.4			1.7	
45		21.0	21.0					14	24		33.4			1.7	
46		21.0	21.0					14	24		33.4			1.7	
47		21.0	21.0					14	24		33.4			1.7	
48		21.0	21.0					14	24		33.4			1.7	
49		21.0	21.0					14	24		33.4			1.7	
50		21.0	21.0					14	24		33.4			1.7	
51		21.0	21.0					14	24		33.4			1.7	
52		21.0	21.0					14	24		33.4			1.7	
53		21.0	21.0					14	24		33.4			1.7	
54		21.0	21.0					14	24		33.4			1.7	
55		21.0	21.0					14	24		33.4			1.7	
56		21.0	21.0					14	24		33.4			1.7	
57		21.0	21.0					14	24		33.4			1.7	
58		21.0	21.0					14	24		33.4			1.7	
59		21.0	21.0					14	24		33.4			1.7	
60		21.0	21.0					14	24		33.4			1.7	
61		21.0	21.0					14	24		33.4			1.7	
62		21.0	21.0					14	24		33.4			1.7	
63		21.0	21.0					14	24		33.4			1.7	
64		21.0	21.0					14	24		33.4			1.7	
65		21.0	21.0					14	24		33.4			1.7	
66		21.0	21.0					14	24		33.4			1.7	
67		21.0	21.0					14	24		33.4			1.7	
68		21.0	21.0					14	24		33.4			1.7	
69		21.0	21.0					14	24		33.4			1.7	
70		21.0	21.0					14	24		33.4			1.7	
71		21.0	21.0					14	24		33.4			1.7	
72		21.0	21.0					14	24		33.4			1.7	
73		21.0	21.0					14	24		33.4			1.7	
74		21.0	21.0					14	24		33.4			1.7	
75		21.0	21.0					14	24		33.4			1.7	
76		21.0	21.0					14	24		33.4			1.7	
77		21.0	21.0					14	24		33.4			1.7	
78		21.0	21.0					14	24		33.4			1.7	
79		21.0	21.0					14	24		33.4			1.7	
80		21.0	21.0					14	24		33.4			1.7	
81		21.0	21.0					14	24		33.4			1.7	
82		21.0	21.0					14	24		33.4			1.7	
83		21.0	21.0					14	24		33.4			1.7	
84		21.0	21.0					14	24		33.4			1.7	
85		21.0	21.0					14	24		33.4			1.7	
86		21.0	21.0					14	24		33.4			1.7	
87		21.0	21.0					14	24		33.4			1.7	
88		21.0	21.0					14	24		33.4			1.7	
89		21.0	21.0					14	24		33.4			1.7	
90		21.0	21.0					14	24		33.4			1.7	
91		21.0	21.0					14	24		33.4			1.7	
92		21.0	21.0					14	24		33.4			1.7	
93		21.0	21.0					14	24		33.4			1.7	
94		21.0	21.0					14	24		33.4			1.7	
95		21.0	21.0					14	24		33.4			1.7	
96		21.0	21.0					14	24		33.4			1.7	
97		21.0	21.0					14	24		33.4			1.7	
98		21.0	21.0					14	24		33.4			1.7	
99		21.0	21.0					14	24		33.4			1.7	
100		21.0	21.0					14	24		33.4			1.7	

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DESIGN DATA
 CHECKED BY
 DRAWN BY
 DATE
 DS

MARK	SIZE		ELEV. TOP OF BEAM	REINF. STEEL SEE DETAIL					#3 STIRRUPS		REMARKS
	WIDTH	DEPTH		A	B	C	OVER COL.	D	E	NO	
11B-1	8	24	+115.9	1*10	-	-	-	2*6	-	-	
2	8	16	+122.4	2*5	-	-	-	1*6	1*5	-	
3	8	16	+122.4	2*5	-	-	-	1*6	-	-	
4	8	16	+122.4	2*5	-	-	-	1*7	-	-	
5	8	16	+122.4	2*7	-	-	-	1*7	1*5	-	
6	8	5 1/2	+117.5	4*10	-	-	-	2*8	-	20	20, 20, 20, 20, 20, 20, 20, 20, 20, 20
7	12	2 1/2	+117.5	1*9	-	-	-	2*8	-	10	10, 10, 10, 10, 10, 10, 10, 10, 10, 10
8	8	3 1/2	+120.0	1*10	-	-	-	2*6	-	-	
9	8	24	+122.4	2*10	-	-	-	2*6	-	-	
10	8	20	+	2*9	-	-	-	2*6	-	-	
11	8	16		*	-	-	-	*	-	-	* FROM 11B-12
12	8	16		2*5	-	1*8	22	1*8	-	-	* FROM 11B-11
13	8	16		2*5	-	-	-	1*6	-	-	
14	8	16		2*5	-	-	-	1*6	1*5	-	
15	8	16		2*7	-	-	-	1*7	1*5	-	
16	8	16	+122.4	2*5	-	-	-	1*7	1*5	-	
17	8	16	+118.9	2*5	-	-	-	2*5	-	-	
18	8	16	+118.9	2*5	-	1*6	8	1*7	-	-	* FROM 11B-19
19	8	16	+118.4	*	-	-	-	*	-	5	5, 5, 5, 5, 5, 5, 5, 5, 5, 5
20	8	12	+117.5	2*5	-	-	-	2*5	-	-	
21	8	18	+122.4	2*8	-	-	-	2*5	-	-	
22	8	30	+118.9	*	-	-	-	*	-	6	6, 6, 6, 6, 6, 6, 6, 6, 6, 6
23	8	30	+118.9	1*6	-	1*11	11	1*11	-	-	* FROM 11B-23
24	8	30	+118.9	*	-	-	-	*	-	-	* FROM 11B-24
25	8	26	+123.1	2*6	-	-	-	1*9	1*5	-	
26	8	26	+123.1	2*9	-	-	-	1*10	1*5	5	5, 5, 5, 5, 5, 5, 5, 5, 5, 5
11B-27	8	20	+123.1	2*6	-	-	-	2*6	-	-	
28	8	24	+123.1	2*6	-	-	-	2*6	-	10	10, 10, 10, 10, 10, 10, 10, 10, 10, 10
29	8	20	+122.4	2*5	-	-	-	2*5	-	-	

64262

CONCRETE BEAM SCHEDULE



64262-

MARK	SIZE		ELEV. TOP OF BEAM	REINF. STEEL DETAIL					#3 STIRRUPS		REMARKS
	WIDTH	DEPTH		A	B	COVER COL.	D	E	NO.	SPACE, EA. END	
12B-1	8	16	+132'-4"	2#8	-	-	1#8	1#5	-	-	
2	8	16	+132'-4"	2#5	-	-	1#8	-	-	-	
3	8	16	+132'-4"	2#5	-	-	1#5	1#5	-	-	
4	12	16	+132'-5"	3#10	-	-	2#8	-	-	-	
5	8	16	+132'-4"	2#8	-	-	2#8	-	-	12" @ THRU JOINT	ADD 2#5 @ 12" EACH VERT. FACE
6	8	24		2#11	-	-	2#6	-	-	-	
7	8	24		2#10	-	-	2#6	-	-	-	* FROM 12B-9
8	12	24		*	-	-	*	-	-	-	* THRU 12B-8
9	12	24		2#6	-	2#11	1#11	-	-	-	
10	8	18		2#8	-	-	2#5	-	-	-	* FROM 12B-11
11	8	20		*	-	-	*	-	-	-	* THRU 12B-10
12				2#9	-	-	2#6	-	10	18" @ 10" RT. END ONLY	
13				2#6	-	-	1#10	1#5	-	-	
14				2#6	-	-	1#9	1#5	-	-	
15				2#6	-	-	1#9	-	14	18" @ 14" @ 14"	
16				2#6	-	-	2#5	-	-	-	* THRU 12B-17
17				*	-	-	*	-	-	-	* FROM 12B-16
18	8	20		2#10	-	-	2#5	-	-	-	
19	12	24		2#10	-	2#10	1#10	1#7	6	18" @ 6" RT. END ONLY	
20	12	24		2#10	-	-	1#10	-	14	18" @ 14" RT. END ONLY	* EXT. TO 12B-19
21	8	24		2#6	-	-	2#6	-	-	-	* THRU 12B-22
22	8	24		*	-	-	*	-	-	-	* FROM 12B-21
23	8	12		2#5	-	-	2#5	-	-	-	
24	8	12		2#5	-	-	2#5	-	-	-	
25	8	30		2#6	-	1#10	1#10	1#6	5	18" @ 5" RT. END ONLY	
12B-26	8	30	+132'-4"	2#9	-	-	1#10	1#6	2	18" @ 2" RT. END ONLY	

CONCRETE BEAM SCHEDULE

FLOOR: TOWER ROOF
 FOR: OCEANVIEW PROJECT
 LOC: MIAMI BEACH, FLA.
 ARCH: MORRIS LARSON, HAYES & LITMAN
 REF: SHT. 5-2

DOUGER & CLARKE

SHEET NO.

BS

10

53

64262

MARK	THICK.	REINFORCING		REMARKS
		MAIN	TEMP.	
S-41	6"	#307 1/2 P	#307 1/2	
S-42	6"	#309 1/2 Bott.	#309 1/2	
S-43	6"	"	"	
S-44	6"	#307 1/2 Top	#307 1/2	
S-45	6"	#307 1/2 TOP ALT. A.D. LENGTH	"	
S-46	6"	#307 1/2 TOP ALT. A.D. LENGTH	"	
S-47	6"	#307 1/2 Top	"	
S-48	8"	#306 1/2 Bott.	"	#406 "E"
S-49	8"	#307 Bott.	"	# EXT. TO DIM 10-3
S-50	6"	#309 Bott.	#309 1/2	# THRU S-51
S-51	6"	#309 1/2 Top	#309 1/2	# EXT. 2'-6" INTO S-50
S-52	6"	#309 1/2 Bott.	"	
S-53	6"	"	"	# EXT. THRU S-55
S-54	6"	#307 1/2 Top	#307	
S-55	6"	#307 1/2 Bott.	"	
S-56	6"	#307 1/2 Bott.	#309 1/2	
S-57	6"	#307 1/2 TOP ALT. A.D. LENGTH	#307 1/2	# FULL LENGTH BARS TO
S-58	6"	#307 1/2 Bott.	"	# 10-51
S-59	6"	#307 1/2 Top	"	# EXT. THRU S-55
S-60	6"	#309 1/2 Bott.	#309 1/2	
S-61	6"	#309 1/2 TOP ALT. A.D. LENGTH	#307 1/2	# EXT. FULL LENGTH BARS TO
S-62	4"	#307 1/2	#307 1/2	# DIM. 10-54
S-63	4"	"	"	
S-64	6"	#309 Bott.	#309 1/2	# THRU S-65
S-65	6"	#309 1/2 Top	"	# EXT. 2'-6" INTO S-64
S-66	6"	#309 1/2 Bott.	"	
S-67	4"	#309 1/2 Bott.	"	
S-68	6"	#307 1/2 Top	#307 1/2	
S-69	6"	#307 1/2 TOP ALT. A.D. LENGTH	"	
S-70	6"	#307 1/2 Top	"	
S-71	6"	#309 1/2 TOP ALT. A.D. LENGTH	"	
S-72	4"	#307 Bott.	#307 1/2	# THRU S-74
S-73	6"	#309 Bott.	#309 1/2	# EXT. 2'-6" INTO S-72
S-74	6"	#309 Top	"	
S-75	6"	#309 1/2 Bott.	"	
S-76	4"	#307 Bott.	#307 1/2	# 10'-0" @ 20'-1"
S-77	4"	#309 Bott.	"	
S-78	4"	#309 Bott.	"	
S-79	4"	#309 Bott.	"	
S-80	4"	#309 Bott.	"	

SEE SHEET NO. 15 - FOR REINFORCING

CONCRETE REINFORCING SCHEDULE

JOB: OFFICE BUILDING PROJECT
 LOC: MIAMI BEACH, FLORIDA
 ARCH: MONTIS LAPIDUS, HART

DESIGNED BY: G. ARKE

SHEET NO.

BS

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64262



MARK	THICK.	REINFORCING		REMARKS
		MAIN	TEMP.	
S-81	6"	*3e12 Top	*3e12	
S-82	6"	*5e12 TOP - ALT. 4'-0" LENGTH W/ FULL LENGTH	do	
S-83	6"	*5e12 Top	do	
S-84	8/6	*5e12 TOP - ALT. 4'-0" LENGTH W/ FULL LENGTH	do	
S-85	6"	*3e12 TOP	do	EXT. ALT. BARS 2'10" INTO FLOOR SLAB - 3RD OTHER BARS 2'10" INTO 8th
S-86	18"	*6e12 E.W. BOTT.		*6e12 E. BARS (ALL SIDES)
S-87	4"	*3e11 BOTT.	*3e11	
S-88	8"	*5e12 TOP - ALT. 4'-0" LENGTH W/ FULL LENGTH	*3e12	
S-89	6"	*5e12 BOTT - ALT. 4'-0" LENGTH W/ FULL LENGTH	*3e12	
S-90	6"	do	do	
S-91		OMIT		
S-92	4"	*3e11 BOTT.	*3e11	
S-93	6"	*3e12 TOP	*3e12	
S-94	6"	*4e12 BOTT - ALT. 4'-0" LENGTH W/ FULL LENGTH	do	*5e12 TOP - ALT. 4'-0" LENGTH W/ FULL LENGTH
S-95	4"	*3e11 BOTT.	*3e11	
S-96	5"	*4e12 BOTT	*3e11	*5e12 TOP - ALT. 4'-0" LENGTH W/ FULL LENGTH
S-97	5"	*4e12 BOTT	*3e11	
S-98	18"	*6e12 E.W. BOTT.		*6e12 E. BARS (ALL SIDES)
S-99	6"	*4e12 BOTT - ALT. 4'-0" LENGTH W/ FULL LENGTH	*3e12	*4e12 E. BARS @ 12" O.C. 14'10" TO 15'0"
S-100	4"	*4e12 BOTT	*3e11	*3e12 E. BARS (ALL SIDES)
S-101	4"	*3e11 BOTT	*3e11	
S-102	4"	*3e11 E.W. (CTR. OF SLAB)		

64262

CONCRETE SLAB SCHEDULE

PROJECT: OFFICE BUILDING PROJECT
 CLIENT: BAKER, FLORENCE
 DESIGNER: BOBOLER & CLARKE
 CONSULTANT: BOBOLER & CLARKE
 SHEET NO. BS
 21

64262-



MARK	SPAN	LOADS				REACTIONS				MOMENTS				As	
		UNIF. TA.	CONC. TA.	UNIF. L.L.	CONC. L.L.	TL. LEFT	TL. RIGHT	CL. LEFT	CL. RIGHT	L	R	L	R	1	2
27						214						883			
42						483				369	542	496	266		
41						511	541			72		10	202		
30						41	11					100	19		
24						112	112								
42						22	353			10	23				
44						33	201			16	28				
45						193	271			10	28				
46						111	244			8	20				
30A							268			8	24				
38B						116	112			8	24				

642 62 -

00

MARK	PLAN	NAME	RECTIONS				W		D		As	
			TL	TR	LL	LR	W	D	C	R		
50-21			16	28	16	28	16	28	16	28	16	28
22			16	28	16	28	16	28	16	28	16	28
23			16	28	16	28	16	28	16	28	16	28
24			16	28	16	28	16	28	16	28	16	28
25			16	28	16	28	16	28	16	28	16	28
26			16	28	16	28	16	28	16	28	16	28
27			16	28	16	28	16	28	16	28	16	28
28			16	28	16	28	16	28	16	28	16	28
29			16	28	16	28	16	28	16	28	16	28
30			16	28	16	28	16	28	16	28	16	28
31			16	28	16	28	16	28	16	28	16	28
32			16	28	16	28	16	28	16	28	16	28
33			16	28	16	28	16	28	16	28	16	28
34			16	28	16	28	16	28	16	28	16	28
35			16	28	16	28	16	28	16	28	16	28
36			16	28	16	28	16	28	16	28	16	28
37			16	28	16	28	16	28	16	28	16	28
38			16	28	16	28	16	28	16	28	16	28
39			16	28	16	28	16	28	16	28	16	28
40			16	28	16	28	16	28	16	28	16	28
41			16	28	16	28	16	28	16	28	16	28
42			16	28	16	28	16	28	16	28	16	28
43			16	28	16	28	16	28	16	28	16	28
44			16	28	16	28	16	28	16	28	16	28
45			16	28	16	28	16	28	16	28	16	28
46			16	28	16	28	16	28	16	28	16	28
47			16	28	16	28	16	28	16	28	16	28
48			16	28	16	28	16	28	16	28	16	28
49			16	28	16	28	16	28	16	28	16	28
50			16	28	16	28	16	28	16	28	16	28

DESIGN DATA 64762

BOILER & CLARK CONSULTING ENGINEERS

APPROVED BY DATE

SHEET NO. DS

64762

65

[illegible]

0121

NO.	TYPE	REMARKS	REACTIONS				SIZE		MOMENTS				L	R	L	R
			W	D	L	R	W	D	L	R						
80	200	2700	16	24	125	153	7.1	4.1	2.5	2.5						
81	200	2700	16	24	125	153	7.1	4.1	2.5	2.5						
82	200	2700	16	24	125	153	7.1	4.1	2.5	2.5						
83	200	2700	16	24	125	153	7.1	4.1	2.5	2.5						
84	200	2700	16	24	125	153	7.1	4.1	2.5	2.5						
85	200	2700	16	24	125	153	7.1	4.1	2.5	2.5						
86	200	2700	16	24	125	153	7.1	4.1	2.5	2.5						
87	200	2700	16	24	125	153	7.1	4.1	2.5	2.5						
88	200	2700	16	24	125	153	7.1	4.1	2.5	2.5						
89	200	2700	16	24	125	153	7.1	4.1	2.5	2.5						
90	200	2700	16	24	125	153	7.1	4.1	2.5	2.5						
91	200	2700	16	24	125	153	7.1	4.1	2.5	2.5						
92	200	2700	16	24	125	153	7.1	4.1	2.5	2.5						
93	200	2700	16	24	125	153	7.1	4.1	2.5	2.5						
94	200	2700	16	24	125	153	7.1	4.1	2.5	2.5						
95	200	2700	16	24	125	153	7.1	4.1	2.5	2.5						
96	200	2700	16	24	125	153	7.1	4.1	2.5	2.5						
97	200	2700	16	24	125	153	7.1	4.1	2.5	2.5						
98	200	2700	16	24	125	153	7.1	4.1	2.5	2.5						
99	200	2700	16	24	125	153	7.1	4.1	2.5	2.5						
100	200	2700	16	24	125	153	7.1	4.1	2.5	2.5						

DESIGN DATA		64262	
FLOOR	13	OBOLER & CLARKE	SHEET NO.
JOB	WATERWORKS UNIT	CONSULTING ENGINEERS	DS
LOC.	2nd Floor	DRAWN BY	6
ARCH.	64262	DATE	
REF. SHE.	5-1	NO.	64262

64262-50

LINE	SPAN	LOADS				REACTIONS				SIZE		MOMENTS				AS		
		W	D	L	S	LL	LL	LL	LL	W	D	L	S	R	L	C	R	
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17	18'	580	30			15.6	15.6			10	16.5	-	6.9	-	-	2.20	-	
18	20.5	580	30			29.1	17.1			28	16.5	10.5	14.0	76.1	49.1	7.80	3.65	
19	22.0	480	30			19.9	13.3			18	16.5	-	10.9	-	-	5.20	-	
20	26.0	480	30			11.1	10.3			12	16.5	-	6.8	-	-	3.25	-	
21	21.5	480	30			35.5	24.9			22	16.5	12.0	11.0	40.0	5.15	7.15	3.83	
22	24.0	480	30			11.1	10.3			12	16.5	-	6.8	-	-	3.25	-	
23	23.0	800				7.9	10.5			12	18	15.5	2.39	46.4	11.4	1.64	12.4	
24	26.5	800				10.7	10.7			12	18	15.5	2.39	46.4	11.4	1.64	12.4	
25	44.5	800				10.7	10.7			12	18	15.5	2.39	46.4	11.4	1.64	12.4	
26	26.5	800				10.7	10.7			12	18	15.5	2.39	46.4	11.4	1.64	12.4	
27	23.0	800				10.5	7.9			12	18	15.5	2.39	46.4	11.4	1.64	12.4	
28	24.0	4100				36.7	37.1			24	28	15.5	2.39	46.4	11.4	1.64	12.4	
29	23.5	2600				31.7	31.1			24	28	15.5	2.39	46.4	11.4	1.64	12.4	
30	24.0	2600				33.7	29.1			24	28	15.5	2.39	46.4	11.4	1.64	12.4	
31	24.0	3270	29.5			41.8	30.5			28	28	15.5	2.39	46.4	11.4	1.64	12.4	
32	23.5	3170				45.2	45.6			28	28	15.5	2.39	46.4	11.4	1.64	12.4	
33	24.0	3170	21.6			52.5	46.2			28	28	15.5	2.39	46.4	11.4	1.64	12.4	
34																		
35	24.0	4020	21.8			45.1	33.1			28	28	15.5	2.39	46.4	11.4	1.64	12.4	
36	23.5	4020				47.6	45.0			28	28	15.5	2.39	46.4	11.4	1.64	12.4	
37	15.0	4020				35.7	29.1			28	28	15.5	2.39	46.4	11.4	1.64	12.4	
38	7.0	2140				9.6	10.2			8	28	15.5	2.39	46.4	11.4	1.64	12.4	
39	2.0	2840	1/4			22.8	-			8	28	15.5	2.39	46.4	11.4	1.64	12.4	

DESIGN DATA		64262
FLOOR: 2ND FL	OBOLER & CLARKE	SHEET NO:
JOB: MCDONALD'S	CONSULTING ENGINEERS	DS
LOC: 1200 S	DRAWN BY: JAS	
ARCH: JAS	APPROVED: JAS	
REP. SHT:	DATE: 12/1/62	

64262-22-

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NO.	FLOOR	COL.	SPAN	INCH	TYP.	REACTIONS				SIZE		MOMENTS				AS	
						LEFT	RIGHT	TOP	BOTTOM	W	D	L	C	R	L	C	R
20	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
21	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
22	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
23	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
24	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
25	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
26	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
27	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
28	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
29	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
30	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
31	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
32	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
33	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
34	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
35	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
36	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
37	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
38	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
39	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
40	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
41	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
42	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
43	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
44	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
45	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
46	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
47	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
48	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
49	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
50	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
51	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
52	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
53	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
54	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
55	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
56	1	1	10.0	10.0	10.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6

64262-62

DESIGN DATA		64262	
FLOOR: 2 nd FL	JOB: MERRIMACK ST. BRIDGE	OBOLER & CLARKE	SHEET NO:
LDC: J. J. CLARKE	ARCH: L. J. CLARKE	CONSULTING ENGINEERS	DS
REF. ANT.	APPROVED: J. J. CLARKE	DATE: 10-10-62	

MARK	SPAN	LOADS				REACTIONS				SIZE		MOMENTS				#5		
		DEAD P.L.	CONC. T.L.	UNIF. L.B.	CONC. L.L.	T.L. LEFT	T.L. RIGHT	L.L. LEFT	L.L. RIGHT	W	D	L	C	R	L	C	R	
36-1						143	15.1			8	22	43.3	47.4	64.3	1.45	1.57	2.63	
2						75	8.3						T (37)	45.6	1.1	1.1	1.51	
3						33	4.5							4.1		MIN	1.7	
4						24	2.7									MIN		
5						10	1.1									MIN		
6						2	.2					23.3	16.1	21.6	2.1	MIN	.72	
7						2	.2					24.1	20.0	26.3	2.0	.66	.97	
8						2	.2					92.6	-	-	2.72	-		
9						21.3	23.5					15.6	-	-	1.86	-		
10						17.0	2									1.63	-	
11						6.1	11.1		-1	8	27		1.0	2.3	37.0	4.3	.46	1.62
12						2.1	2.1			8	16					1.32	-	
12A						11	2.1			8	20		0.7			MIN		
13						12	10.8			8	20	5.00	32.4	-	2.9	1.45		
14						16.2	16.2			14	16	-	12.5	-		3.31	-	
15A						134	19.1			8	24	-	1.1	-		3.1	-	
15						5.1	7.1			12	28	11.3	17.6	24.8	3.0	.47	.93	
16						8.8	9.0					17.1	35.1			.47	.94	
17						2.0	4.0					12.1	35.1			.46	.94	
18						2.6	9.6					2.1	24.8			.45	.78	
19						1.9	2.9			12	24	17.2	17.3			.47	.92	
20						34.5	36.1			16	28	340 12.1	19.6	2.0	3.1	5.24	.70	
21						27.5	28.1			16	28	5.2	2.7			1.44	.82	
22						22.0	27.6			16	28	14.1	3.0			3.77	2.4	
23						40.7	32.0			16	28	12.0	7.9	3.12	7.1	6.55	7.04	
24						44.7	45.9			16	28	8.2	3.3	2.72	2.11	7.72		
25						56.5	40.2			16	28	18.1	4.7		4.74	1.50		
26						3.4	3.0			8	12		2.3			.57	-	
27						11.2	11.2			8	16		25.2			1.25	-	
27A						44.2	53.2			20	28	200 5.6	11.9	2.0	3.10	.83		
28						49.3	45.3			20	28		9.7	16.0		2.2	4.1	
29						55.6	24.5			20	28		17	26.4		1.85	.37	
30						1.2	10.5			8	62	27.6	(32)	31.8	3.20	MIN	MIN	
31						22.9				8	62	37.8			MIN			
32						3.4	3.6			8	12		7.2			.50	-	
33						44.2	52.2			20	28	200 5.6	11.9	2.0	3.10	.83		
34						41.1	45.2			20	28		9.6	15.4		2.52	4.50	
35						20.9	28.3			20	28		5.3	26.2		1.42	1.00	
36						3.4	3.4			8	62	27.6	(32)	31.8	3.20	MIN	MIN	

DESIGN DATA

64262

FLOOR: 2nd
 JOB: Addition of 2nd Floor
 LOC: 1st & 2nd
 ARCH: 62
 REC: 511

OBOLER & CLARKE
 CONSULTING ENGINEERS
 DRAWN BY: DATE:
 APPROVED BY: DATE:
 FOR NO:

SHEET NO.

DS

64262

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