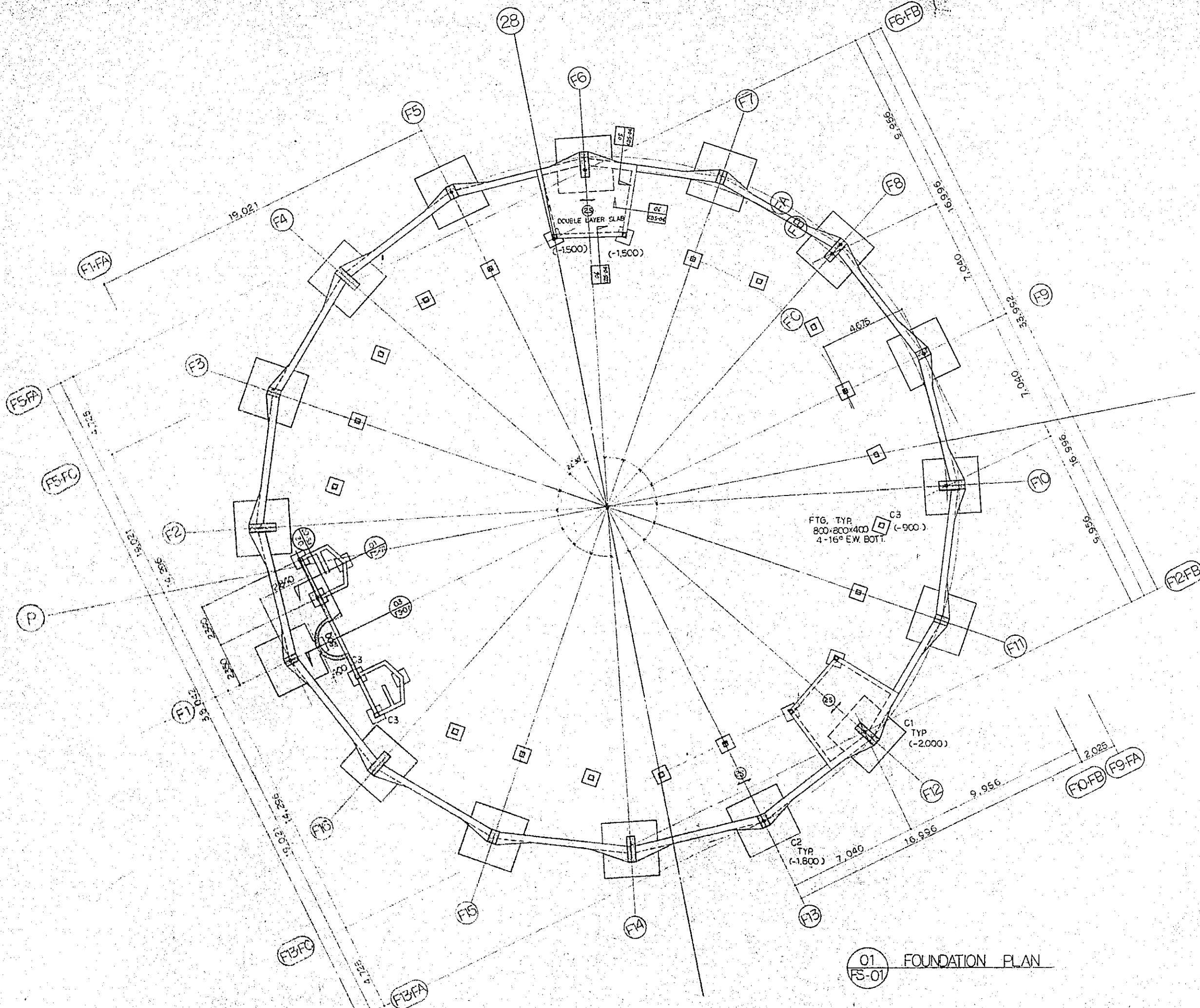
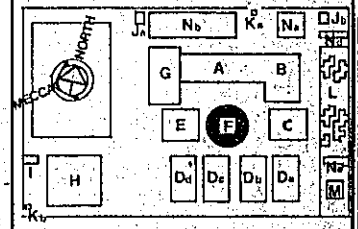


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 SCALE=1:500 0 5 10 20M
 SCALE=1:600 0 5 10 20 30M



- NOTE:
1. (---) DENOTES BOTTOM OF FTG. EL. FROM 1st. FEL.
 2. ↓ INDICATES DIR. OF MAIN REINFORCEMENT IN SLAB.
 3. TOC. - 1st. FEL. - 30 UON.

14 JUN 79	MAY 27 HOE. MEETING
31 MAR 79	GENERAL
REVISIONS:	



KINGDOM OF SAUDI ARABIA
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 IN RIYADH**

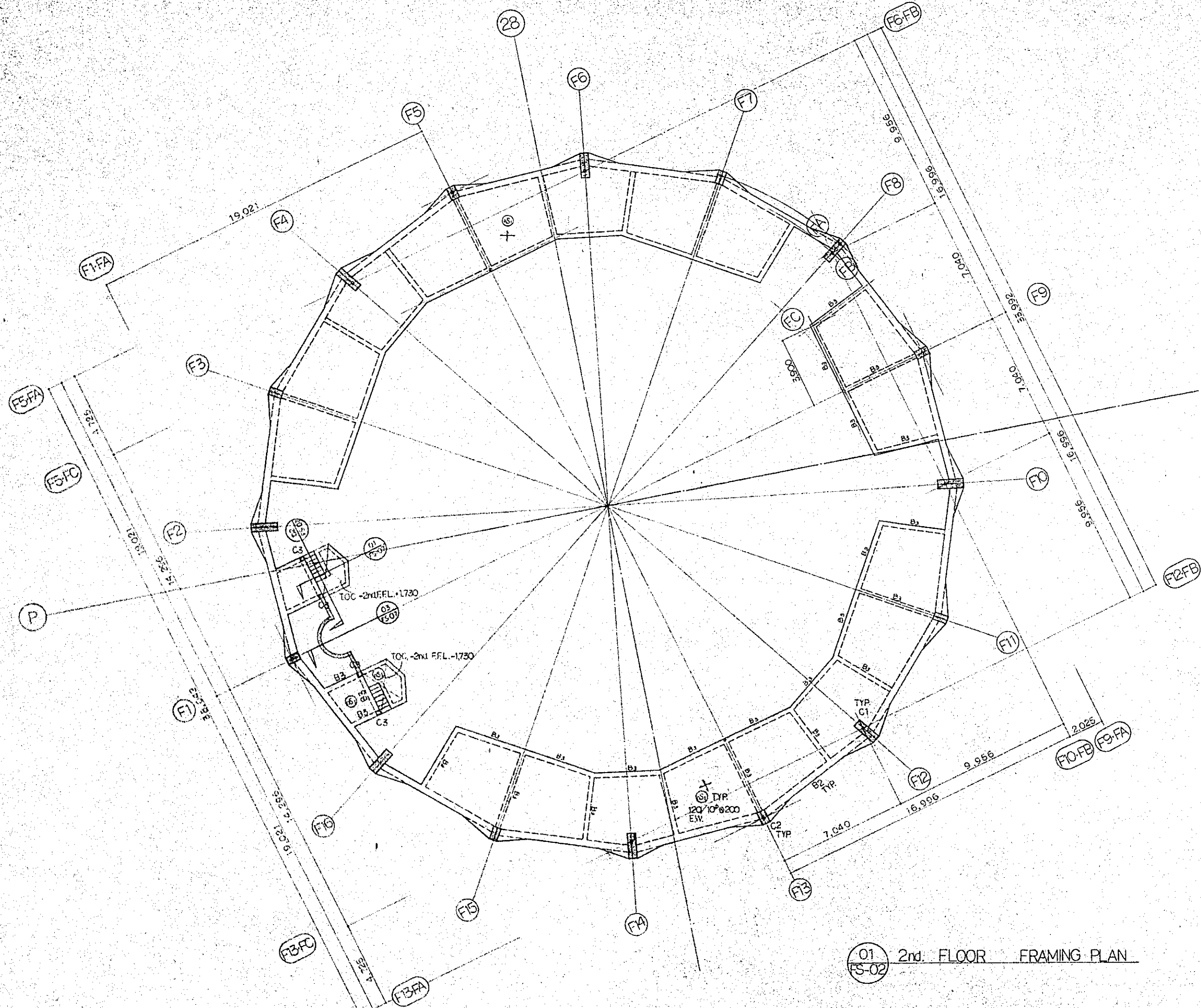
AZUSA SEKKEI CO., LTD.
 2-27-3 NISHIOGANDA, SHINAGAWA-KU,
 TOKYO, JAPAN

TITLE: BUILDING - F
 FOUNDATION PLAN

SCALE: 1/100	DWG. NO.
JOB NO.	FS-01
REF. NO.	
DATE	DRAWN
31 JAN. 79	31
CHECKED	CHECKED

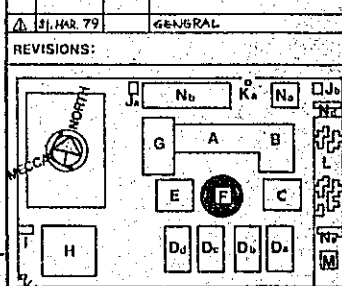
01 FOUNDATION PLAN
 FS-01

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01 2nd. FLOOR FRAMING PLAN
FS-02

- NOTE:
- 1. T.O.C. = 2nd F.F.L. - 30 U.O.N
 - 2. INDICATES DIR. OF MAIN REINFORCEMENT IN SLAB.



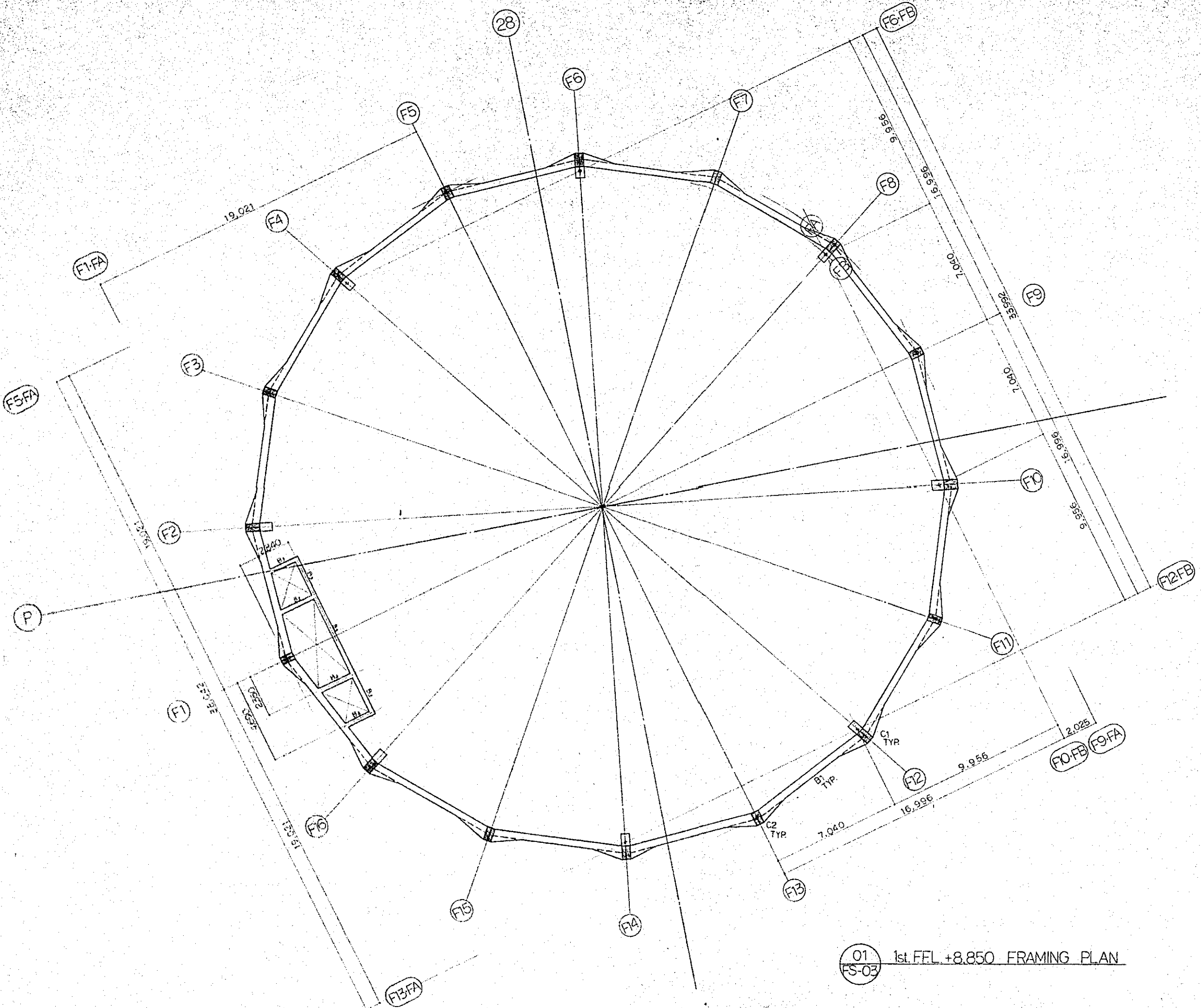
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INSTITUTE
IN RIYADH**

AZUSA SEKKEI CO., LTD.
2-27-3 NISHIGOTANDA, SHINAGAWA-KU,
TOKYO, JAPAN

TITLE: BUILDING - F
2nd. FLOOR
FRAMING PLAN

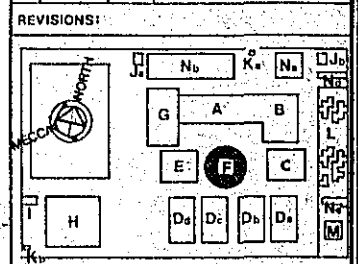
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JOB NO.	FS-02
REF. NO.	
DATE	DRAWN
31 JAN 79	
CHECKED	CHECKED

المملكة العربية السعودية . وزارة المعارف . المعهد الفني للإلكترونيات في الرياض



NOTE:
1. T.O.C. = 1st. F.F.L. + 8,850

NO.	REVISION	DATE



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TOKYO, JAPAN

TITLE: BUILDING - F
1st. F.F.L. + 8,850
FRAMING PLAN

SCALE: 1/100	DWG. NO.
JOB NO.	FS-03
REF. NO.	
DATE 31 JAN. 79	DRAWN
	CHECKED

01 1st. F.F.L. + 8,850 FRAMING PLAN
FS-03

المملكة العربية السعودية . وزارة المعارف . المعهد الفني للإلكترونيات في الرياض

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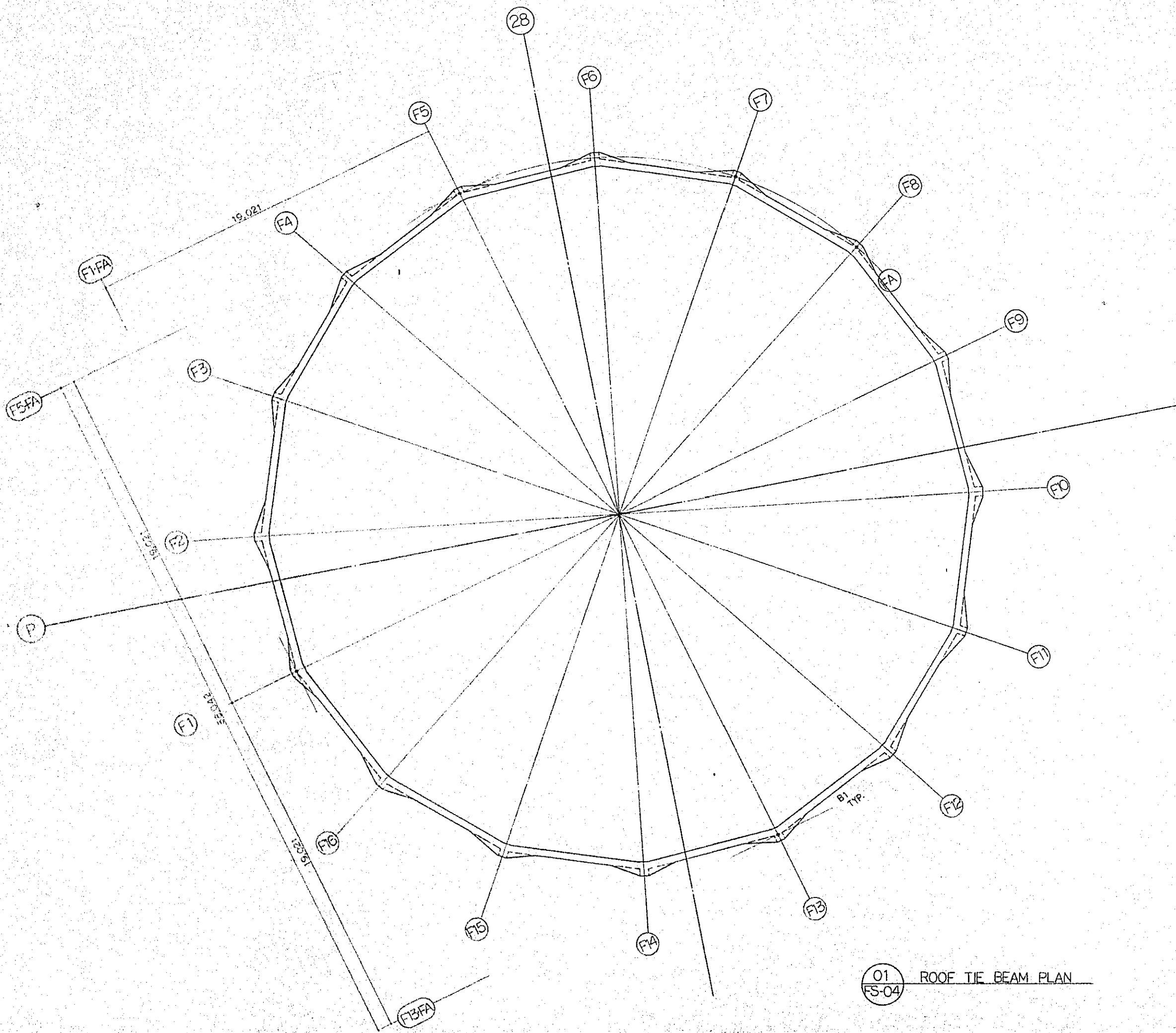
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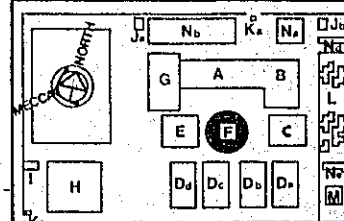
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NOTE:
1. T.O.C. = 1st. F.F.L. + 11.300

REVISIONS:



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MINISTRY OF EDUCATION
TECHNICAL ELECTRONICS
INSTITUTE
IN RIYADH

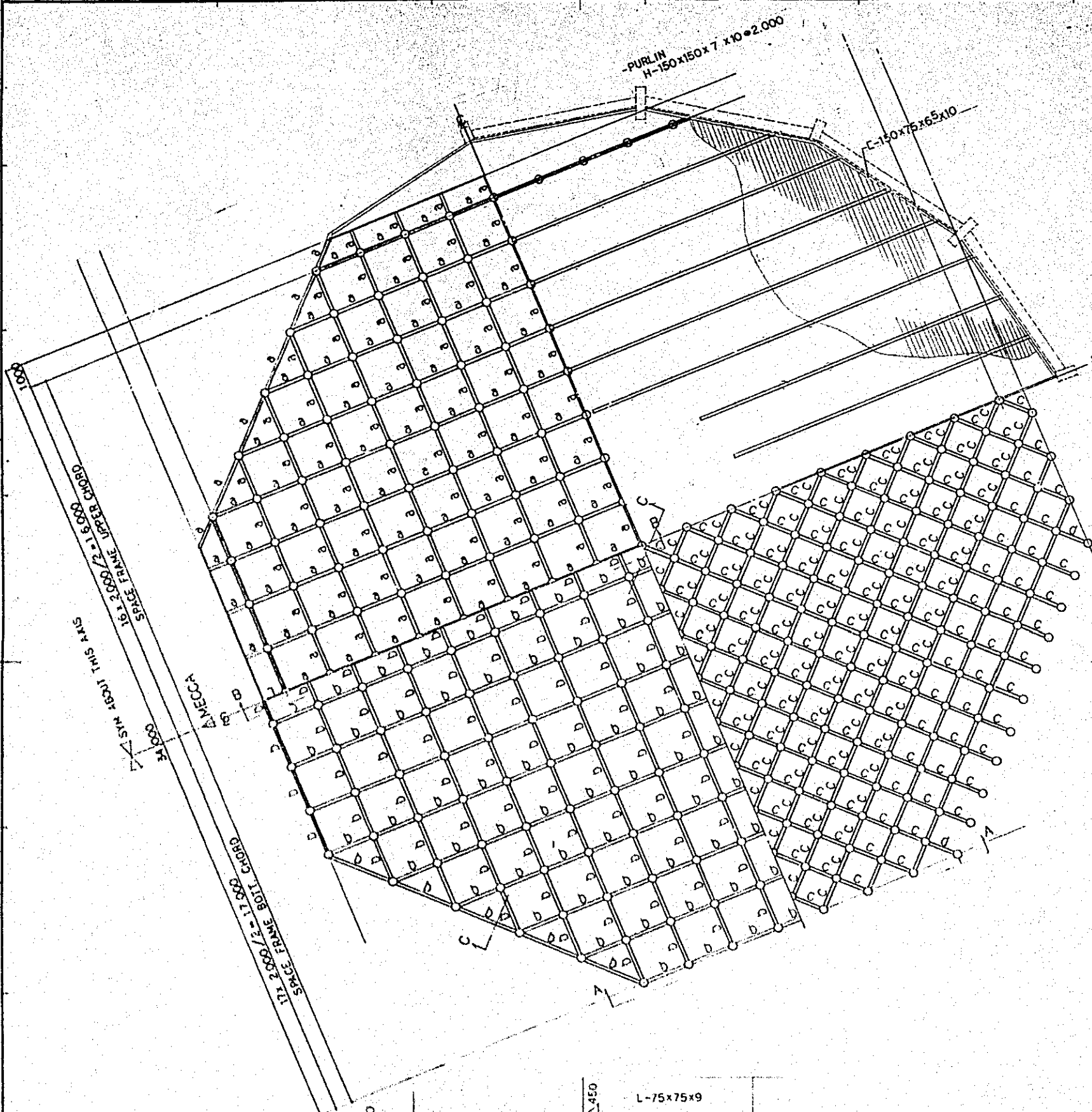
AZUSA SEKKEI CO., LTD.
2-27-3 MISHIGOTANDA, SHINAGAWA-KU,
TOKYO, JAPAN

TITLE: BUILDING - F
ROOF TIE BEA PLAN

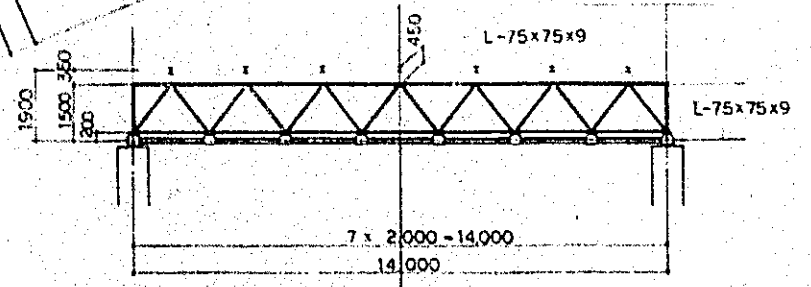
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JOB NO.	FS-04
REF. NO.	
DATE: 31, JAN, 79	CHECKED: [Signature]

01 ROOF TIE BEAM PLAN
FS-04

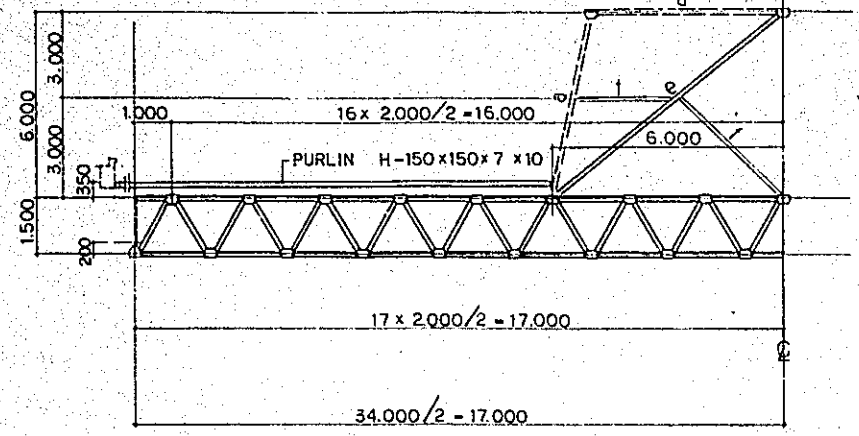
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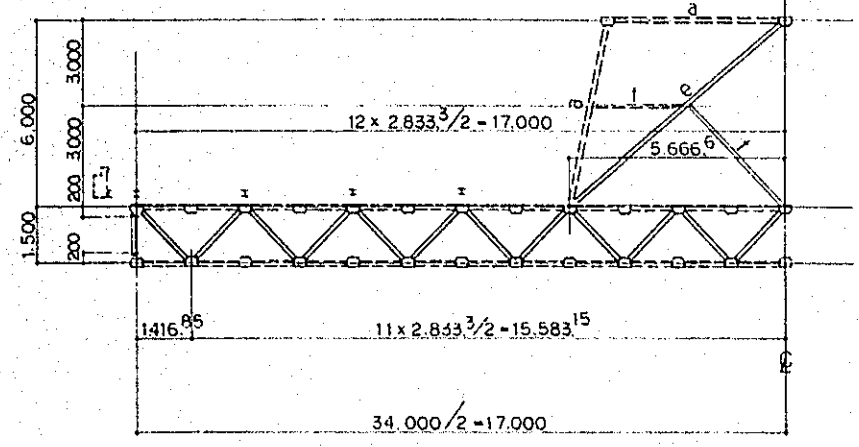
01 ROOF FRAMING PLAN
FS-05



02 SECTION A-A
FS-05



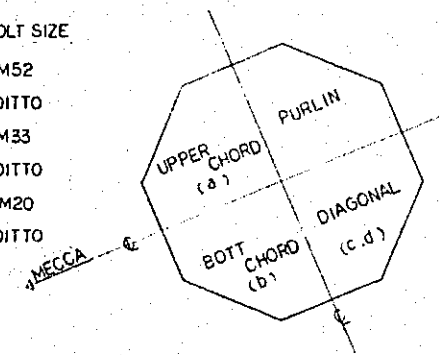
03 SECTION B-B
FS-05



04 SECTION C-C
FS-05

PIPE MEMBER AND BOLT SCHEDULE

MARK	PIPE SIZE	APPLICATION	BOLT SIZE
a	168.3 ^ø x 6.3	CHORD	M52
b	168.3 ^ø x 6.3	DITTO	DITTO
c	139.7 ^ø x 6.3	DIAGONAL	M33
d	139.7 ^ø x 9.5	DITTO	DITTO
e	168.3 ^ø x 9.5	DITTO	M20
f	101.6 ^ø x 4.2	CHORD	DITTO



KEY PLAN

NOTE:
1. FOR SPECIFICATION FOR STRUCTURAL STEEL SHOWN ON THIS DWG. SEE DWG. CDS-02

REVISIONS:

No.	Description	By	Check	Date

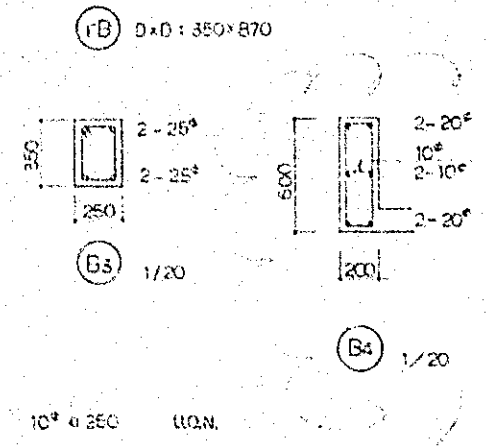
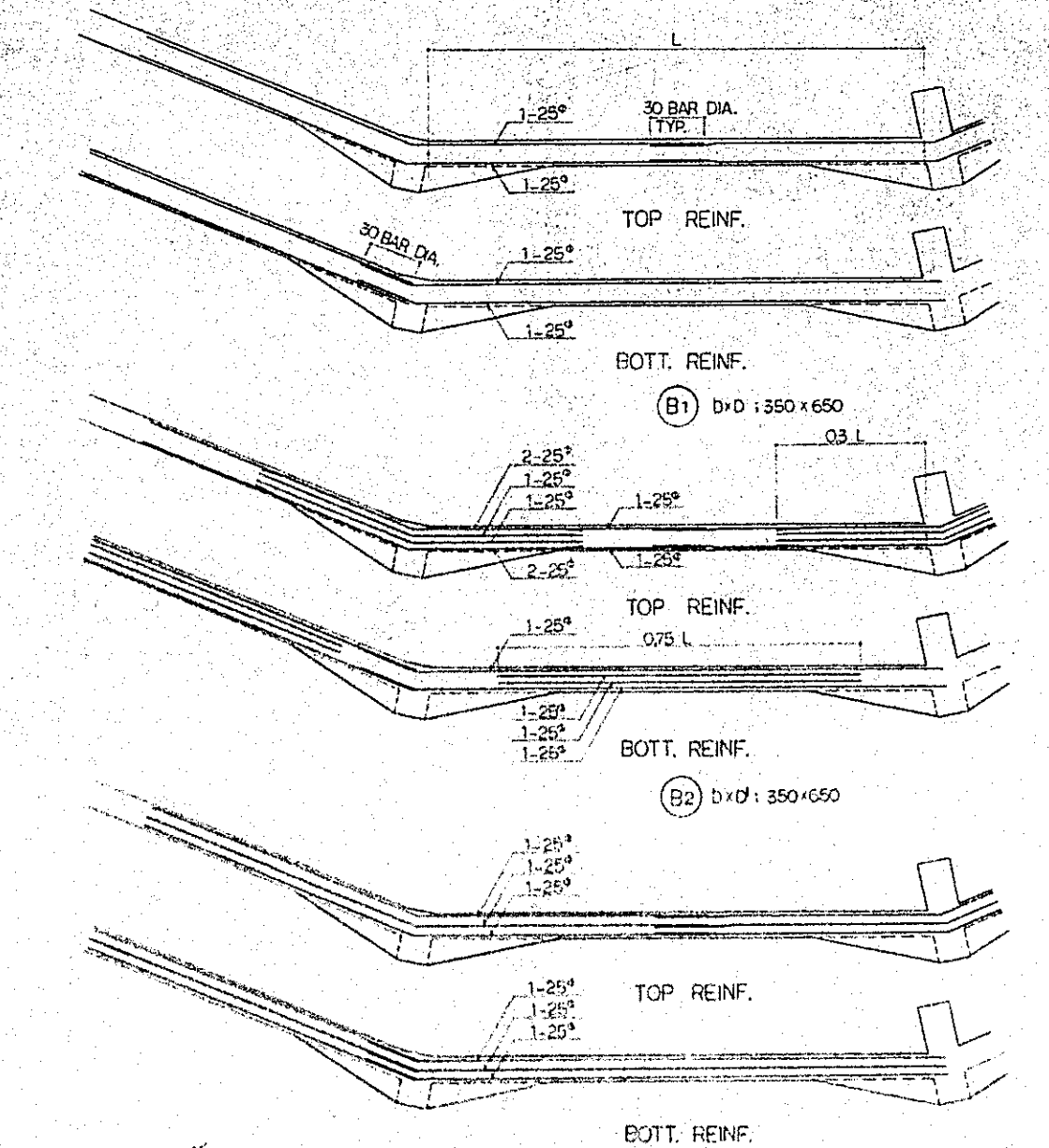
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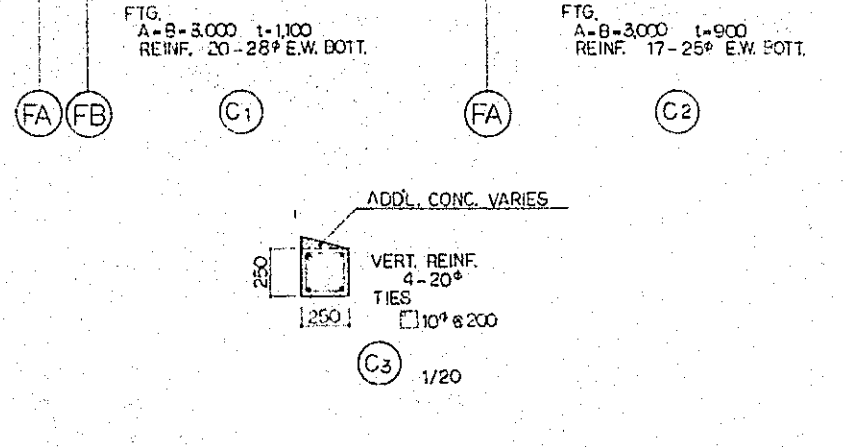
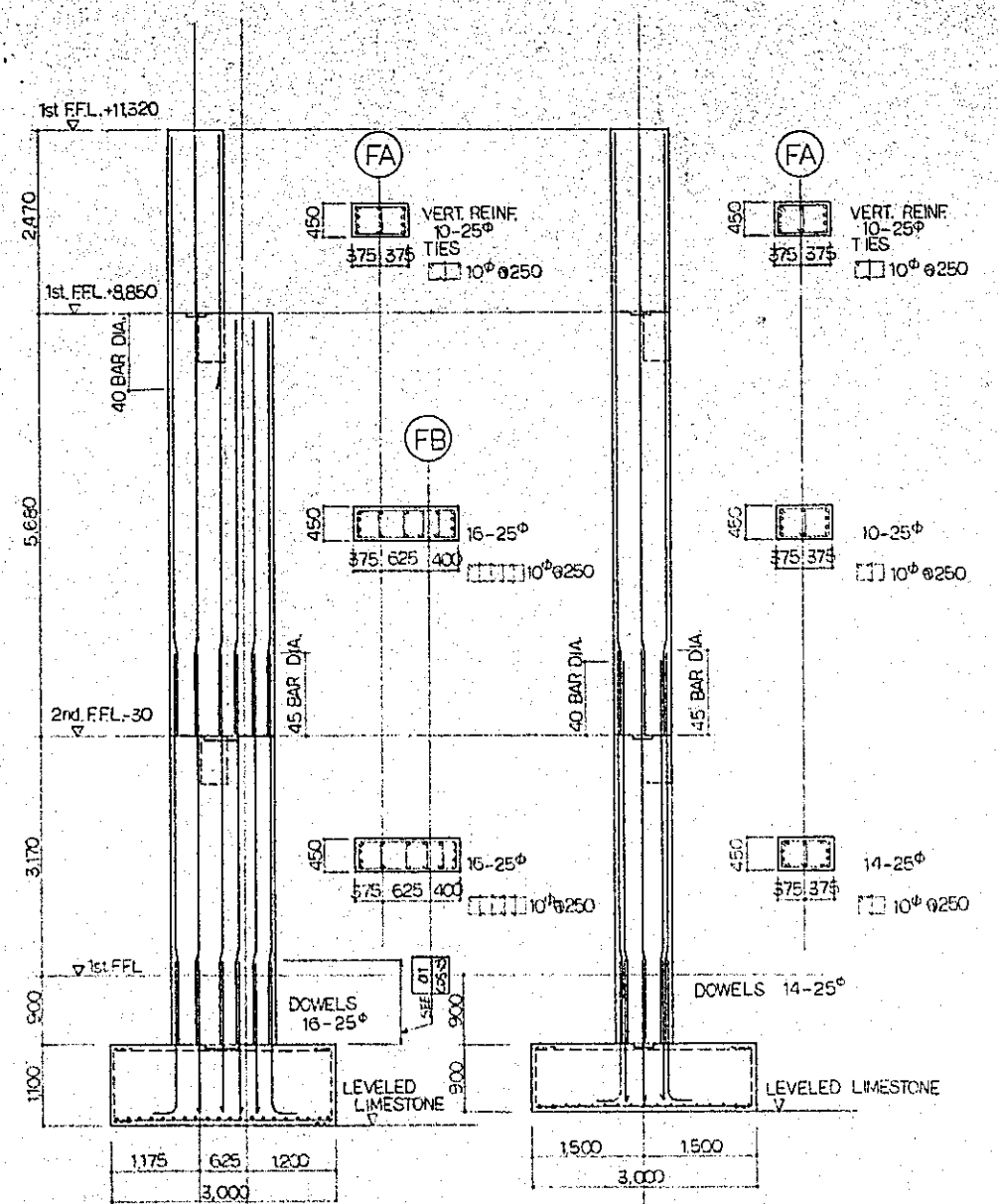
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TITLE: BUILDING - F
ROOF FRAMING PLAN

SCALE: 1/100	DWG. NO: FS-05
JOB NO:	
REF. NO:	
DATE: 31 JAN. 79	DRAWN: [Signature]
	CHECKED: [Signature]



01 BEAM SCHEDULE
 FS-00 1/50 U.O.N.



02 COLUMN SCHEDULE
 FS-06 1/50 U.O.N.

NOTE

REVISIONS:	21 MAR. 71	GENERAL
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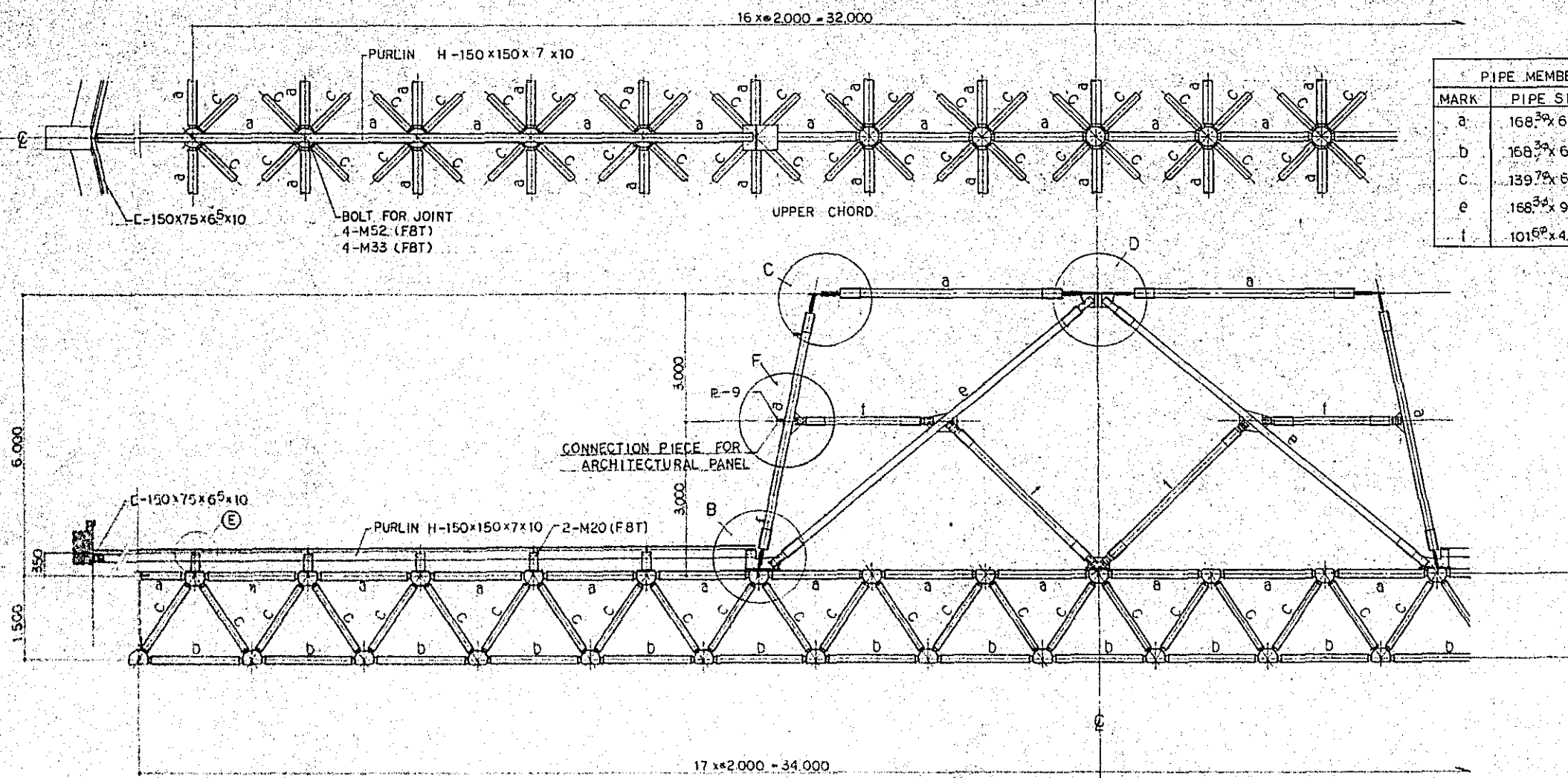
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TITLE: BUILDING - F
 BEAM AND COLUMN SCHEDULE

SCALE: 1/50	1/20	DWG. NO.	FS-06
JOB NO.		REF. NO.	
DATE	31 JAN. 79	DRAWN	(23)
CHECKED	(1)	CHECKED	(1)

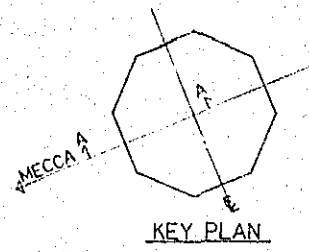
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 SCALE=1:600 0 5 10 20 30M



PIPE MEMBER AND BOLT SCHEDULE			
MARK	PIPE SIZE	APPLICATION	BOLT SIZE
a	168.3 ³ x 6.3	CHORD	M52
b	168.3 ³ x 6.3	DITTO	DITTO
c	139.7 ³ x 6.3	DIAGONAL	M33
e	168.3 ³ x 9.5	DITTO	M20
f	101.6 ³ x 4.2	CHORD	M20

NOTE:
 1 FOR SPECIFICATION FOR STRUCTURAL STEEL SHOWN ON THIS DWG. SEE DWG. CDS-02.

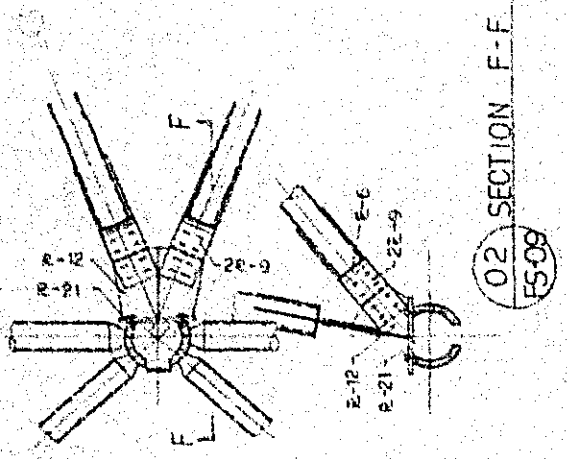
01 SECTION A-A
 FS-08



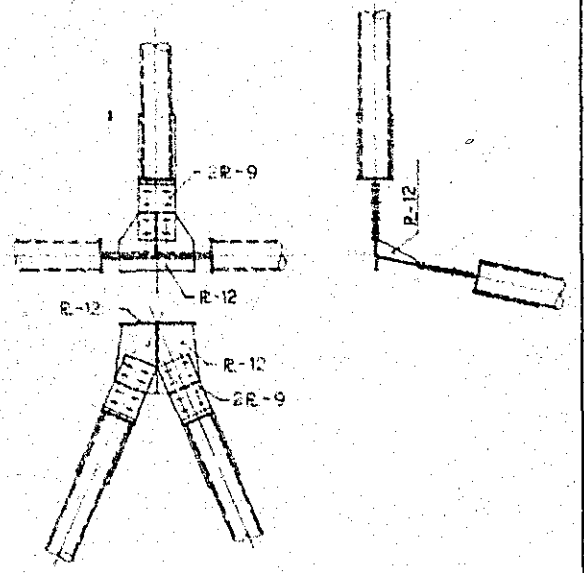
REVISIONS:

No.	Rev.	Date

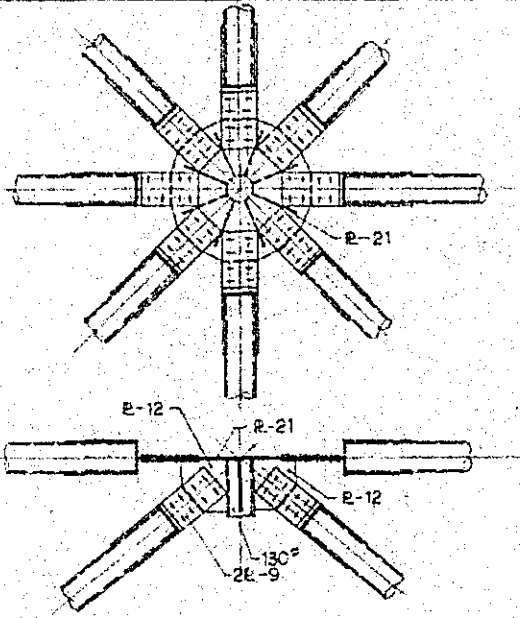
02 SECTION F-F
 FS-08



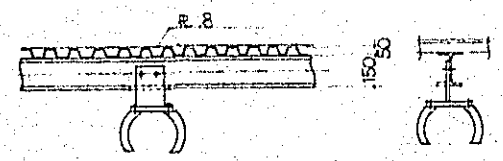
03 DETAIL



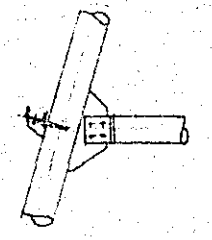
04 DETAIL



05 DETAIL



06 DETAIL



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TITLE: BUILDING - F
 DETAILS OF SPACE
 FRAME

SCALE: 1/50 1/20 DWG. NO. FS-08

JOB NO. REF. NO. DATE 31 JAN. 79

DRAWN	CHECKED

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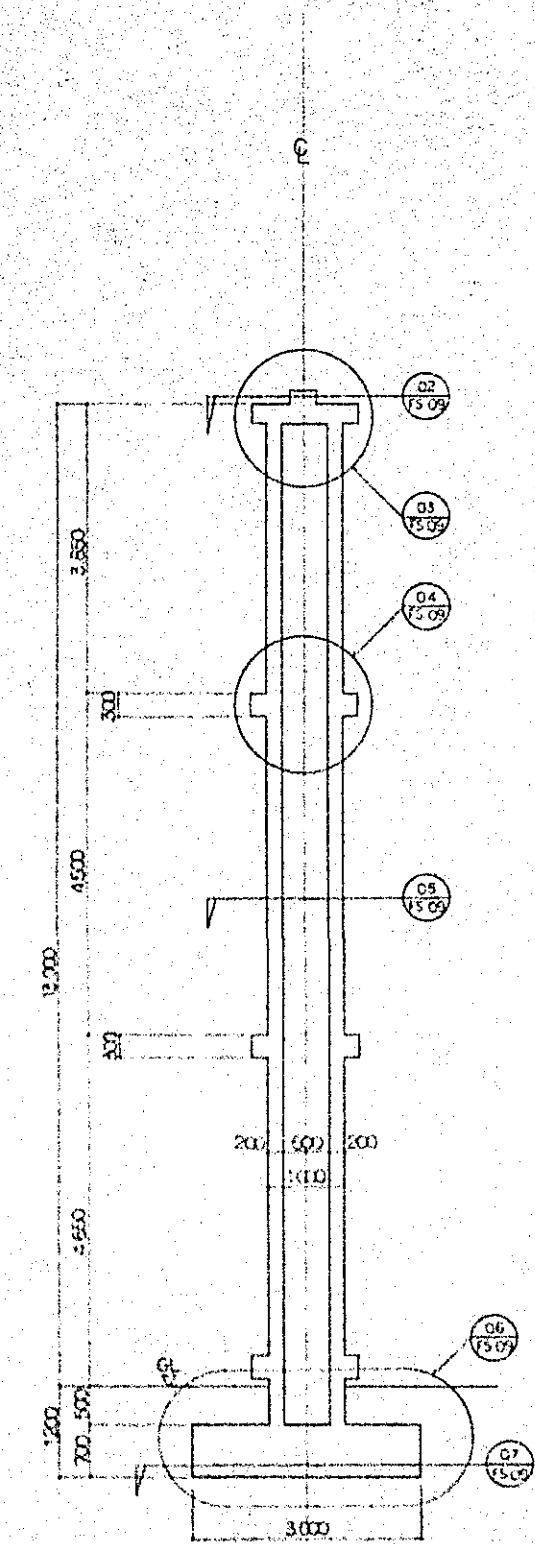
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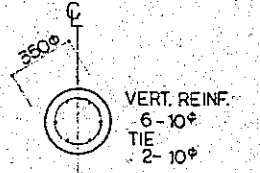
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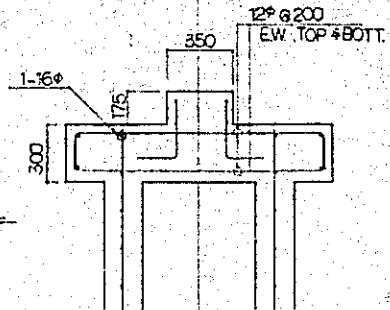
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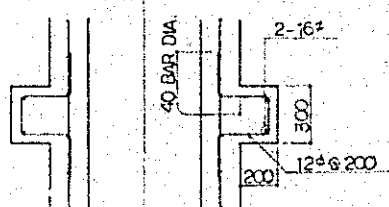
02 SECTIONAL DETAIL
FS-09 1/20



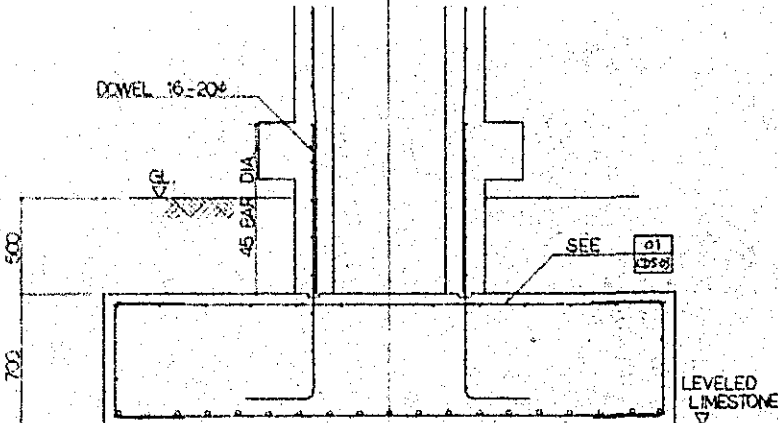
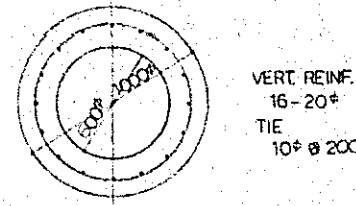
03 SECTIONAL DETAIL
FS-09 1/20



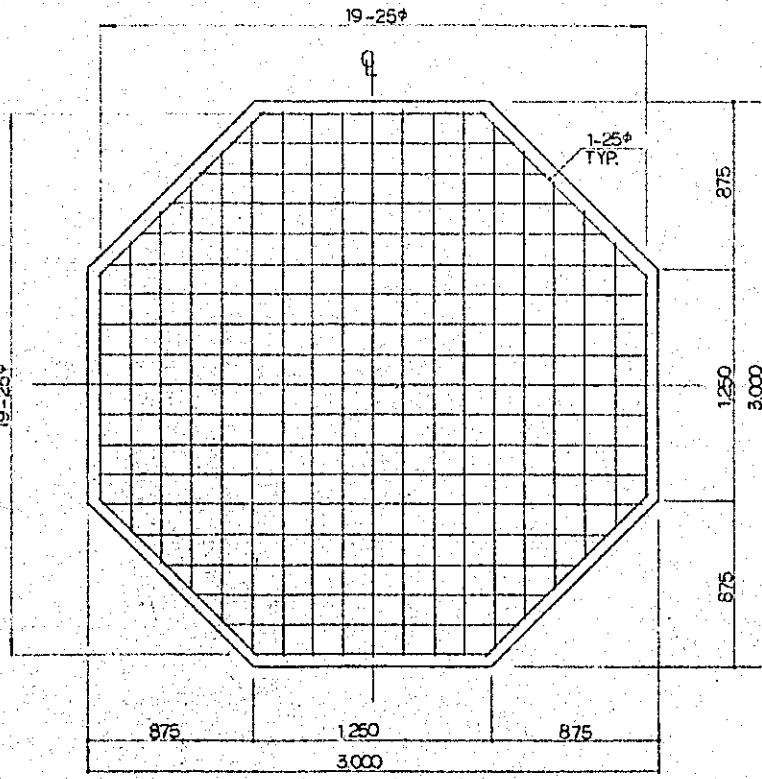
04 SECTIONAL DETAIL
FS-09 1/20



05 SECTIONAL DETAIL
FS-09 1/20



06 SECTIONAL DETAIL
FS-09 1/20



07 SECTIONAL DETAIL
FS-09 1/20

01 SECTION
FS-09 1/50

NOTE:

REVISIONS:

NO.	DESCRIPTION	DATE

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TITLE: BUILDING-F
MINARET

SCALE: 1/50 1/20	DWG. NO.
JOB NO.	FS-09
REF. NO.	
DATE	
31 JAN. 79	

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وزارة المعارف



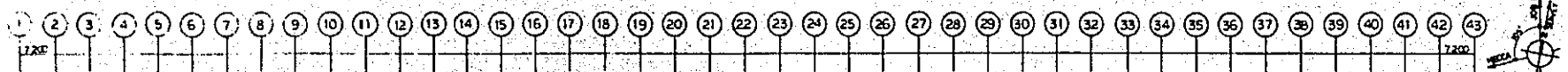
TECHNICAL ELECTRONICS INSTITUTE IN RIYADH

المعهد الفني للإلكترونيات في الرياض

THE KINGDOM OF SAUDI ARABIA
MINISTRY OF EDUCATION

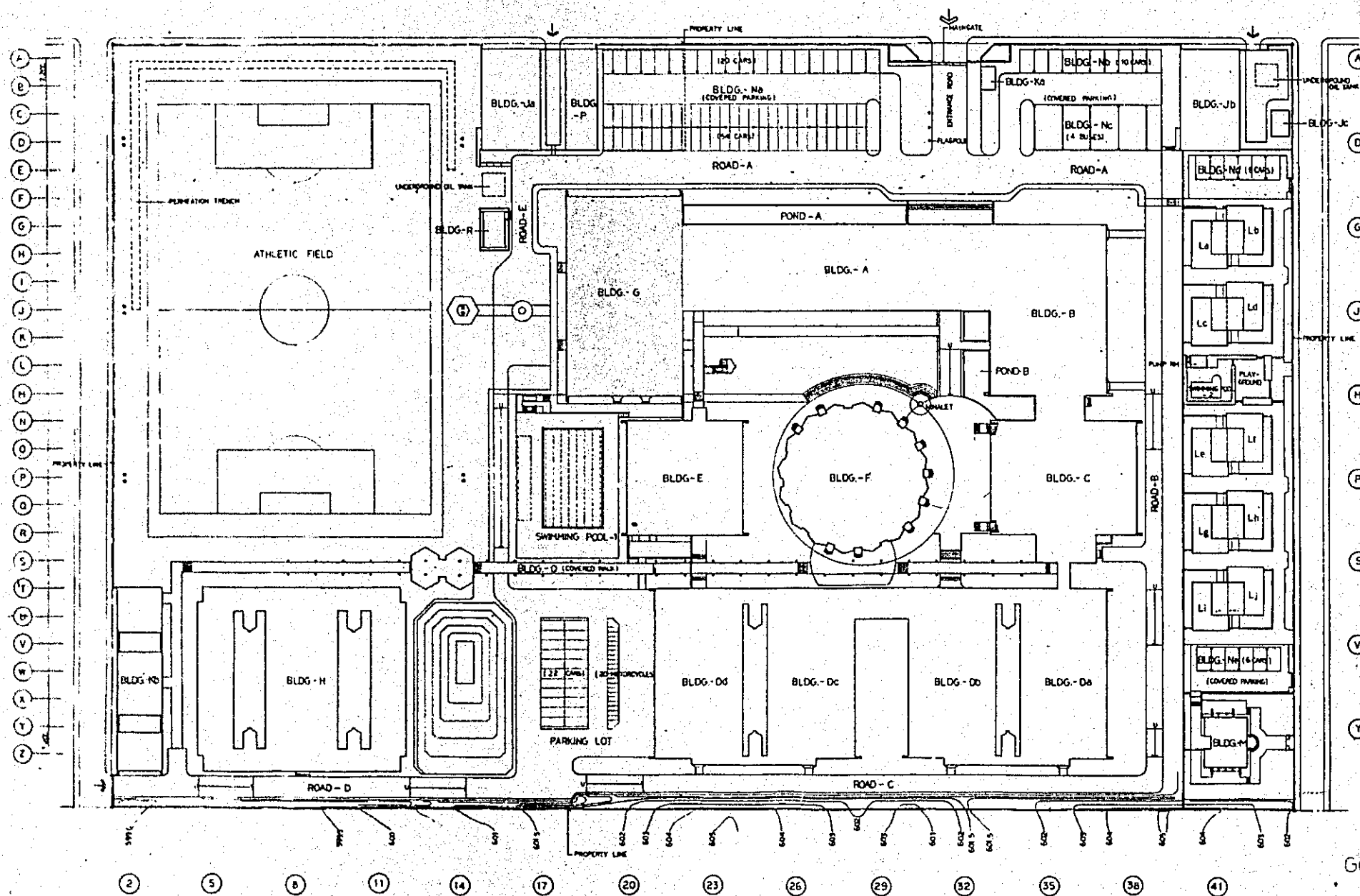
VOLUME 2 BUILDING-G GYMNASIUM

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- ADMINISTRATION
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- AUDITORIUM / COMPUTER
- TECHNICAL EDUCATION
- CAFETERIA / LIBRARY
- MOSQUE
- GYMNASIUM
- DORMITORY
- GENERATOR
- GUARD / SERVANT
- TEACHERS' RESIDENCES
- DIRECTOR'S VILLA
- COVERED PARKING
- TREATMENT PLANT
- COVERED WALK
- GAS STORAGE

A
B
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SCALE=1:600 0 5 10 20 30M

INDEX OF DRAWING VOLUMES TECHNICAL ELECTRONICS INSTITUTE IN RIYADH

VOLUME 1	VOLUME 2	VOLUME 3	VOLUME 4
ARCHITECTURAL	STRUCTURAL	MECHANICAL	ELECTRICAL

GENERAL INFORMATION

THE DRAWINGS ARE DIVIDED INTO FOUR VOLUMES FOR EASE OF HANDLING. IN ORDER TO SATISFY THE REQUIREMENT FOR FLEXIBILITY IN TERMS OF ISOLATING INDIVIDUAL BUILDINGS, THE DRAWINGS IN VOLUME I, II, III AND IV ARE ORGANIZED INTO BUILDING SETS.

EACH SET HAS ITS OWN COVER SHEET, INDEX AND INTERNAL NUMBERING SYSTEM, AND INCLUDES ALL DISCIPLINES' DRAWINGS FOR THAT BUILDING. EACH SET CAN BE COMPLETED BY COMBINING WITH THE COMMON DETAIL SET. FOR CONVENIENCE WHEN BOUND INTO VOLUMES.

GRID DIMENSIONING SYSTEM

THE METRIC SYSTEM HAS BEEN USED THROUGHOUT THE DOCUMENTS. THE LARGE MODULAR GRID REPRESENTS THE 7.2 STRUCTURAL GRID. THE ENTIRE SITE IS KEYED TO THIS GRID BY ALPHABET AND NUMBER. THE SMALLER MODULE IS THE Q9 PLANNING GRID. TYPICALLY, ALL PARTITIONS ARE CENTERED ON THIS GRID. ELEMENTS NOT INDICATED AS BEING CENTERED ON EITHER GRID ARE DIMENSIONED TO THE CLOSEST GRID LINE. IF NO DIMENSION APPEARS, THE ELEMENT IS TO BE CENTERED ON THE GRID LINE.

PARTITION SCHEDULE

A PARTITION SCHEDULE IS LOCATED ON EACH FLOOR PLAN SHEET. PARTITION TYPES ARE IDENTIFIED ON THE PLANS BY USE OF A SYMBOL ADJACENT TO EACH PARTITION OR BY A NOTE IN THE SCHEDULE IDENTIFYING GROUPS OF PARTITIONS. THE PARTITION TYPES ARE LOCATED IN THE ARCHITECTURAL COMMON DETAIL SET.

INTERIOR COLUMN AND EXTERIOR WALL IS CONSIDERED A PARTITION TYPE AND IS ACCOMMODATED IN THE PARTITION NOTES AND SCHEDULE.

DOOR SCHEDULE

THE DOOR SCHEDULE IS TYPICALLY INDICATED ON EACH DOOR ON EACH FLOOR PLAN SHEET WITHIN EACH BUILDING SET. THE DOOR TYPES ARE LOCATED IN THE ARCHITECTURAL COMMON DETAIL SET. WHEN DOORS ARE CALLED IN NOTES, DOORS ARE TO BE IDENTIFIED BY THE NAMES AND NUMBERS OF THE ROOMS SERVED. FOR ROOMS CONTAINING MORE THAN ONE DOOR, SUFFIXAL LETTERS ARE USED (a, b, c, ETC.). HARDWARE FOR EACH DOOR IS DESCRIBED IN THE HARDWARE TYPES BOUND IN THE SPECIFICATIONS. THE HARDWARE GROUPS ARE INDICATED ON EACH DOOR ON EACH FLOOR PLAN WITHIN EACH BUILDING SET. DOOR FRAME PROFILES ARE ALSO DRAWN IN THE ARCHITECTURAL COMMON DETAIL SET AND REFERENCED ON THE PLAN SHEETS AND DOOR SCHEDULE.

FINISH SCHEDULE

THE FINISH SCHEDULE IS TYPICALLY LOCATED ON EACH FLOOR PLAN SHEET OF EACH BUILDING SET, AND DESCRIBES THE FINISH FOR EACH SPACE ON EACH PLAN. THE MATERIAL LEGEND IS LOCATED IN THE ARCHITECTURAL COMMON DETAIL SET. NOTE THAT THE FINISH SCHEDULE INDICATES FINISH SURFACE ONLY, NOT THE SUBSTRATE TO WHICH IT IS APPLIED. FOR SUBSTRATE MATERIAL SEE THE PARTITION SCHEDULE.

INDEX OF DRAWINGS FOR BUILDING -G , GYMNASIUM

GENERAL

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GENERAL NOTES	GG-02	3rd FLOOR PLAN	1 / 100	GM-04	1st FLOOR PLAN	1 / 100	GE-16
		SECTION (NO-1)	1 / 100	GM-05	2nd FLOOR PLAN	1 / 100	GE-17
		SECTION (NO-2)	1 / 100	GM-06	3rd FLOOR PLAN	1 / 100	GE-18

ARCHITECTURAL (VOLUME 1)

1st FLOOR PLAN	1 / 100	GA-01	1st FLOOR PLAN	1 / 100	GM-07		
2nd FLOOR PLAN	1 / 100	GA-02	2nd FLOOR PLAN	1 / 100	GM-08		
3rd FLOOR PLAN	1 / 100	GA-03	3rd FLOOR PLAN	1 / 100	GM-09		
ROOF PLAN	1 / 100	GA-04					
ELEVATIONS	1 / 100	GA-05					
ELEVATIONS	1 / 100	GA-06					
SECTION	1 / 100	GA-07					
SECTIONS	1 / 100	GA-08					
WALL SECTIONS	1 / 50	GA-09					
WALL SECTIONS	1 / 50	GA-10					
PLAN, SECTION DETAILS	1 / 50	GA-11					
PLAN, SECTION DETAILS	1 / 50	GA-12					
PLAN DETAILS	1 / 50	GA-13					
STAIRS - 1	1 / 50	GA-14					
STAIRS - 2	1 / 50	GA-15					
DETAILS	1 / 10	GA-16					
DETAILS	1 / 10	GA-17					
DETAILS	1 / 10	GA-18					
1st FLOOR REFLECTED CEILING PLAN	1 / 100	GA-19					
2nd FLOOR REFLECTED CEILING PLAN	1 / 100	GA-20					
3rd FLOOR REFLECTED CEILING PLAN	1 / 100	GA-21					

MOTOR POWER AND CONTROL WIRING SYSTEM

1st FLOOR PLAN	1 / 100	GM-07
2nd FLOOR PLAN	1 / 100	GM-08
3rd FLOOR PLAN	1 / 100	GM-09

PLUMBING (VOLUME 3)

DIAGRAM	1 / 100	GP-01
WATER SUPPLY		
1st FLOOR PLAN	1 / 100	GP-02
2nd FLOOR PLAN	1 / 100	GP-03
DRAINAGE		
1st FLOOR PLAN	1 / 100	GP-04
2nd FLOOR PLAN	1 / 100	GP-05
3rd FLOOR PLAN	1 / 100	GP-06
ROOF PLAN	1 / 100	GP-07
HOT WATER STORAGE DETAIL		GP-08
FIRE PROTECTION		
1st FLOOR PLAN	1 / 100	GP-09
2nd FLOOR PLAN	1 / 100	GP-10
3rd FLOOR PLAN	1 / 100	GP-11

ELECTRICAL (VOLUME 4)

FEEDER SYSTEM 1st FLOOR PLAN	1 / 100	GE-01
DO 2nd FLOOR PLAN	1 / 100	GE-02
DO 3rd FLOOR PLAN	1 / 100	GE-03
LIGHTING & SOCKET OUTLET		
1st FLOOR PLAN	1 / 100	GE-04
2nd FLOOR PLAN	1 / 100	GE-05
3rd FLOOR PLAN	1 / 100	GE-06
ROOF FLOOR PLAN	1 / 100	GE-07
DISTRIBUTION PANEL LIST NO1		GE-08
DISTRIBUTION PANEL LIST NO2		GE-09
COMMUNICATION SYSTEM		
1st FLOOR PLAN	1 / 100	GE-10
2nd FLOOR PLAN	1 / 100	GE-11
3rd FLOOR PLAN	1 / 100	GE-12
SPECIAL SOUND SYSTEM		
GYMNASIUM 1st FLOOR PLAN	1 / 100	GE-13
GYMNASIUM 2nd FLOOR PLAN	1 / 100	GE-14
GYMNASIUM 3rd FLOOR PLAN	1 / 100	GE-15

STRUCTURAL (VOLUME 2)

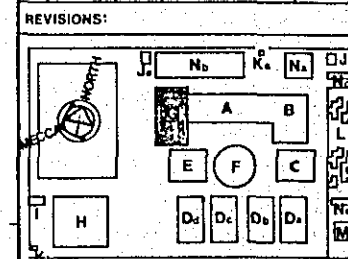
FOUNDATION PLAN	1 / 100	GS-01
2nd FLOOR FRAMING PLAN	1 / 100	GS-02
3rd FLOOR FRAMING PLAN	1 / 100	GS-03
ROOF TIE BEAM PLAN	1 / 100	GS-04
ROOF FRAMING PLAN (SPACE FRAME)	1 / 100	GS-05
COLUMN SCHEDULE		GS-06
BEAM AND GIRDER SCHEDULE		GS-07
SECTIONAL DETAILS	1 / 20	GS-08
DETAILS OF SPACE FRAME		GS-09

MECHANICAL (VOLUME 3)

CHILLED WATER AND DUCT DIAGRAM		GM-01
1st FLOOR PLAN	1 / 100	GM-02

NOTE:

REVISIONS:



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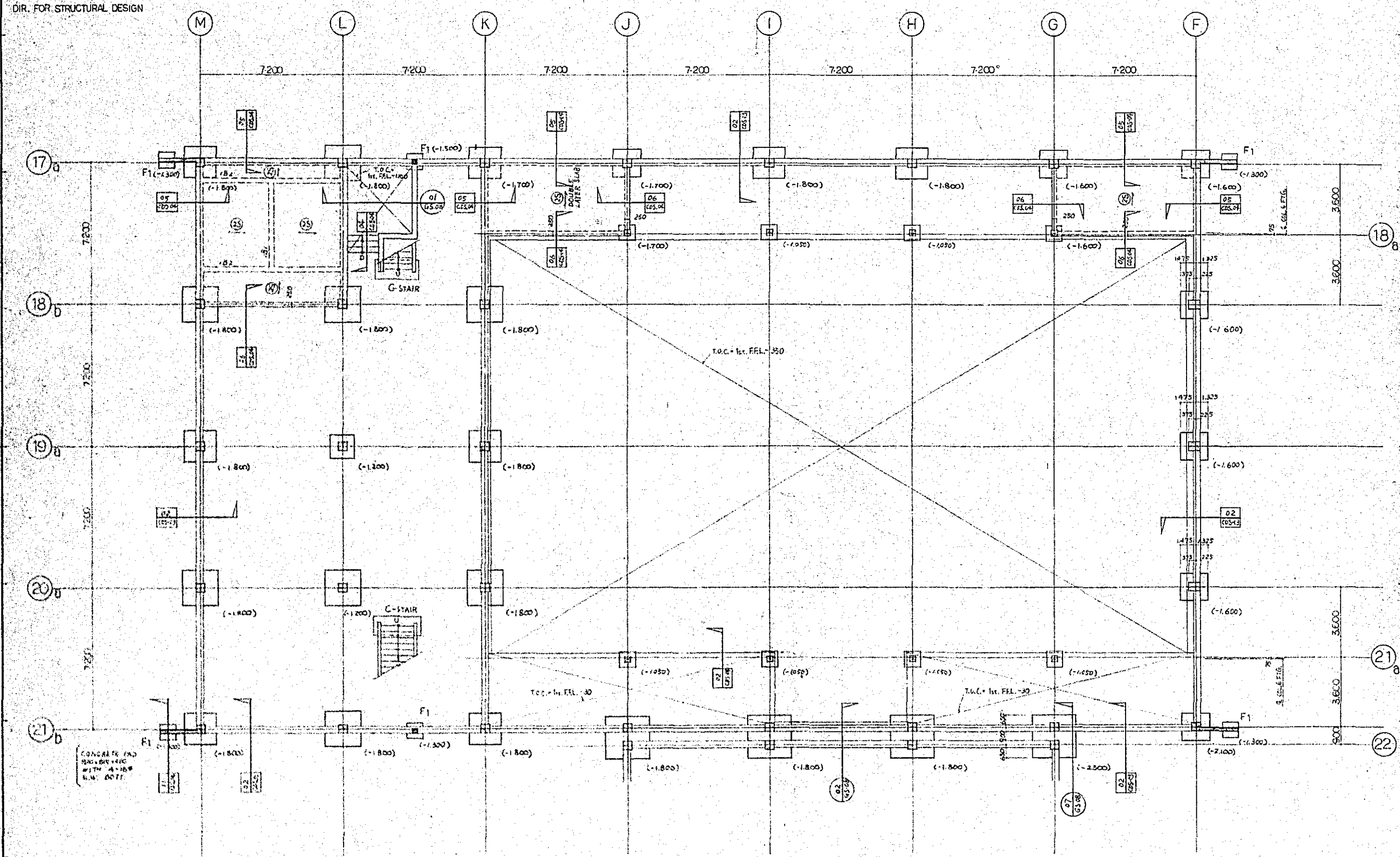
TITLE:
GENERAL NOTES

SCALE: NS	DWG. NO
JOB NO	GG-02
REF. NO	
DATE	CHECKED
31 JAN 79	



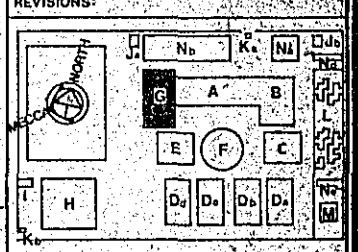
WEST
SOUTH — NORTH
EAST
DIR. FOR STRUCTURAL DESIGN

- NOTE:
- (---) DENOTES BOTTOM OF FTG. EL. FROM 1st. FFL.
 - ↑ INDICATES DIR. OF MAIN REINFORCEMENT IN SLAB.
 - T.O.C. = 1st. FFL. - 50 U.O.N.



01 FOUNDATION PLAN
GS-01

No.	Rev.	Date	Description



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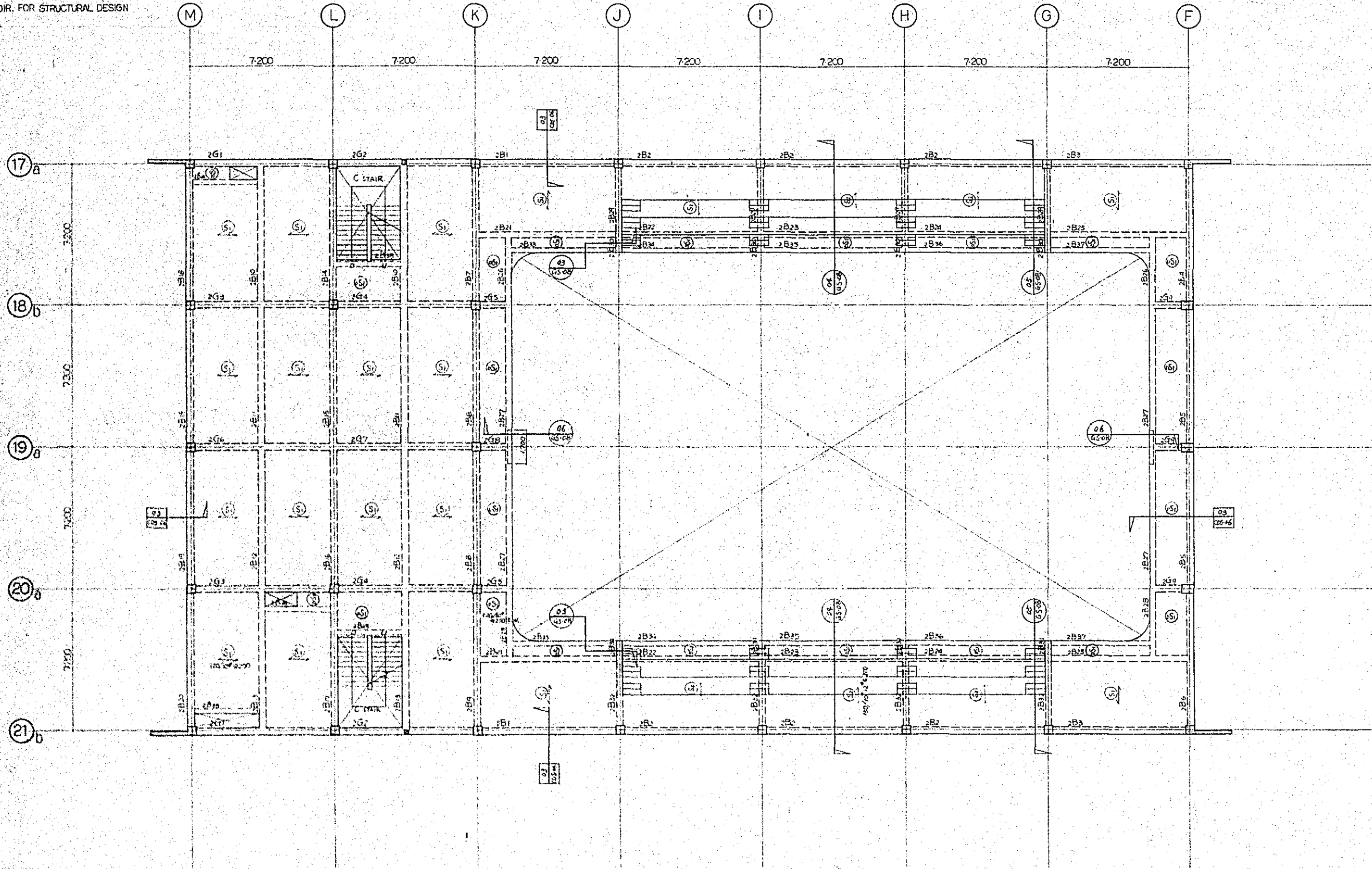
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FOUNDATION PLAN

SCALE: 1/100	DWG. NO.
JOB NO.	GS-01
REF. NO.	
DATE: 31-JAN-79	CHECKED: 14

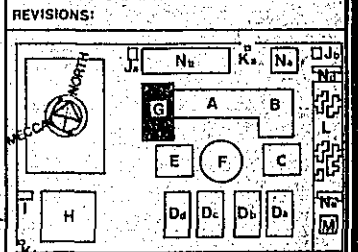
المملكة العربية السعودية
 وزارة المعارف
 المعهد الفني للإلكترونيات في الرياض



WEST
SOUTH — NORTH
EAST
DIR. FOR STRUCTURAL DESIGN



- NOTE:
- INDICATES DIR. OF MAIN REINFORCEMENT IN SLAB.
 - T.O.C. = 2nd. F.F.L. - 30 U.O.N.



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TITLE: BUILDING-G
2nd. FLOOR
FRAMING PLAN

SCALE: 1/100	DWG. NO. GS-02
JOB NO.	
REF. NO.	
DATE: 31 JAN. 79	DESIGNER: [Signature]
	CHECKER: [Signature]

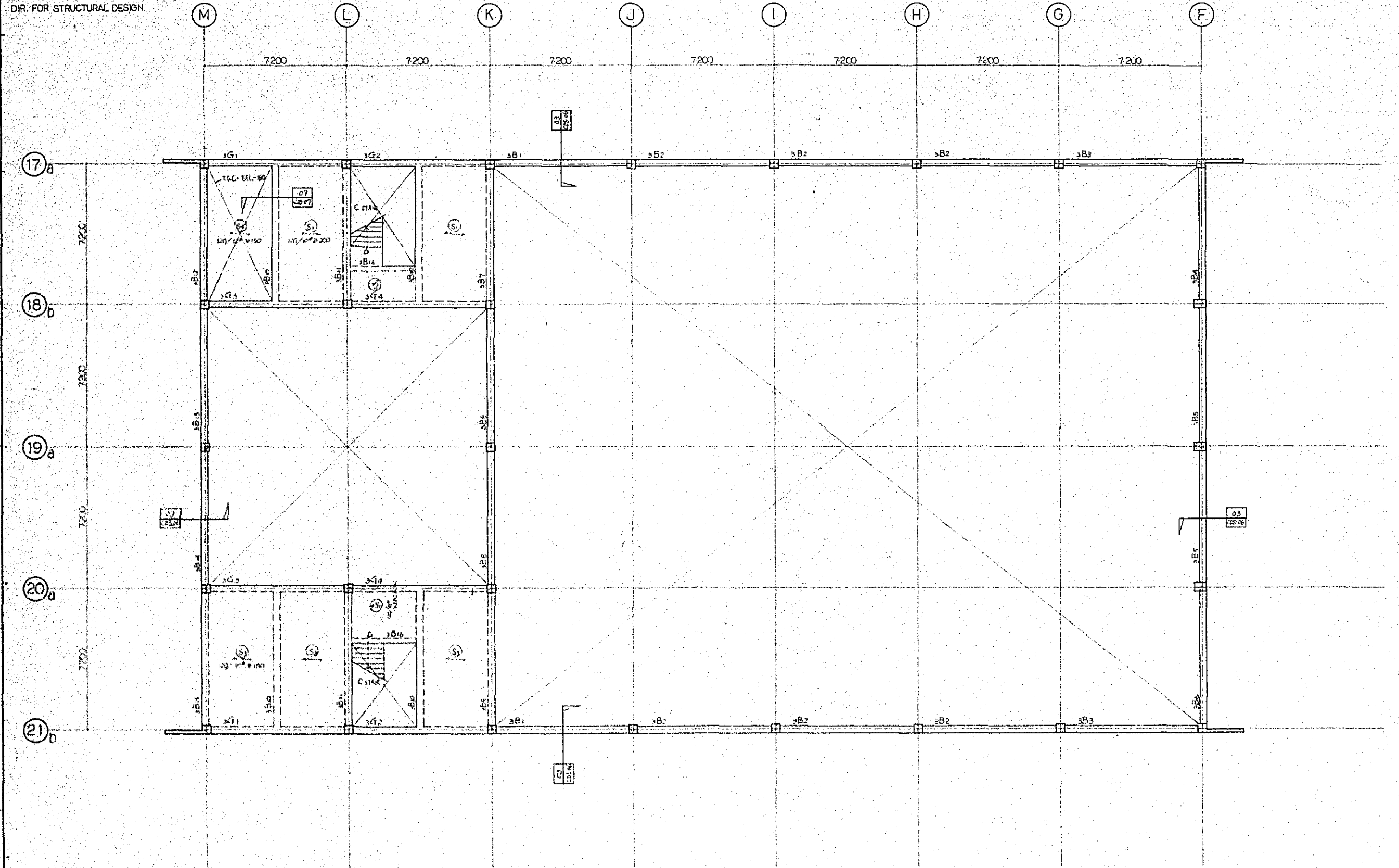
01 2nd. FLOOR FRAMING PLAN
GS-02

المملكة العربية السعودية . وزارة المعارف . المعهد الفني للكهرباء في الرياض

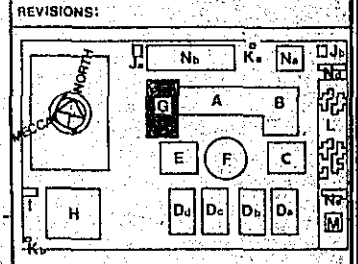


WEST
 SOUTH — NORTH
 EAST
 DIR. FOR STRUCTURAL DESIGN

- NOTE:
- INDICATES DIR. OF MAIN REINFORCEMENT IN SLAB.
 - T.O.C. = 3rd. F.F.L. - 30 U.Q.N.



NO.	DESCRIPTION	DATE



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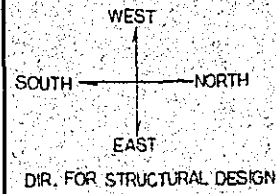
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TITLE: BUILDING-G
 3rd. FLOOR
 FRAMING PLAN

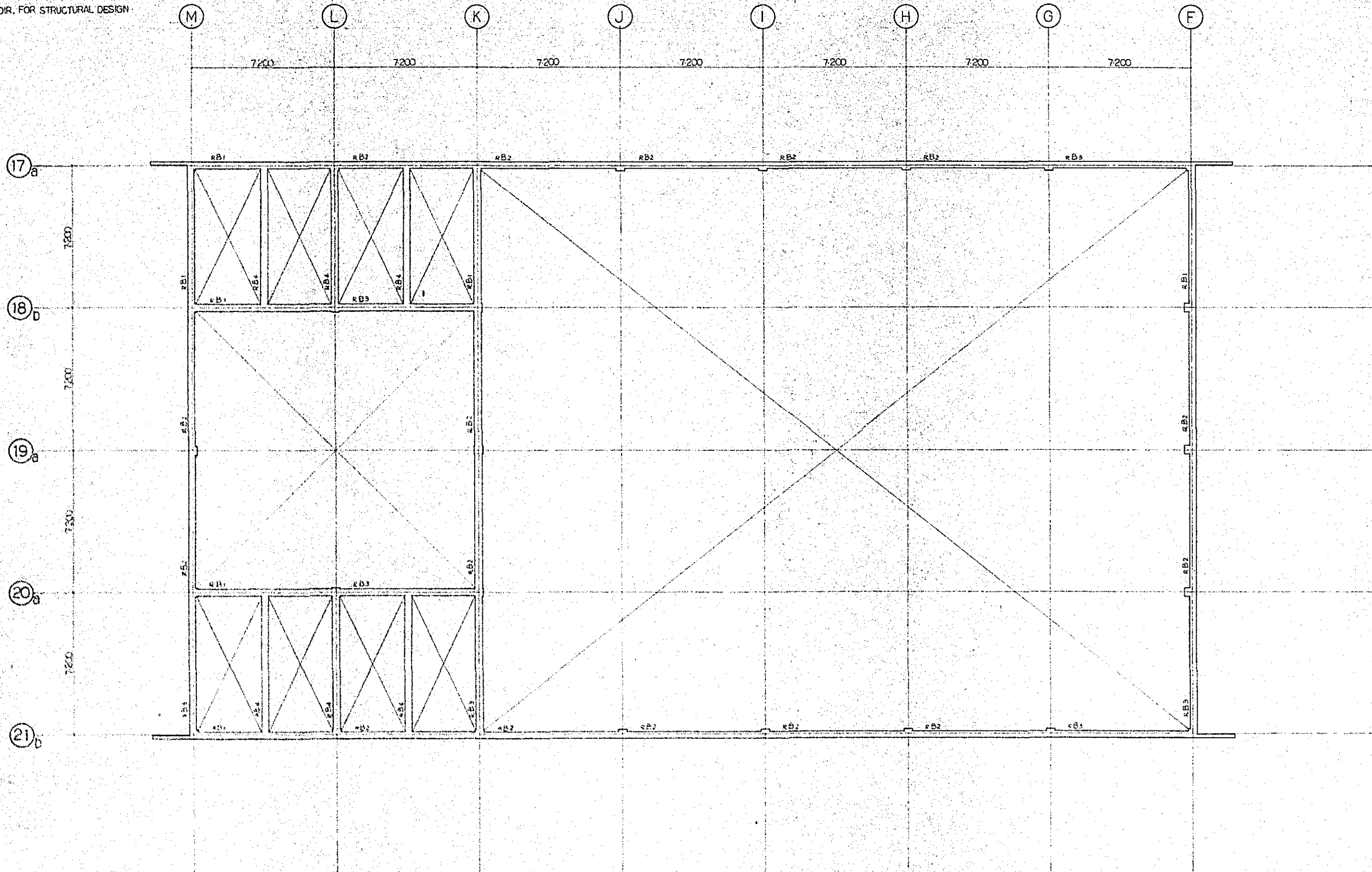
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JOB NO.					
REF. NO.					
DATE: 31 JAN. 79	<table border="1"> <tr> <td>DESIGNED</td> <td>CHECKED</td> </tr> <tr> <td></td> <td></td> </tr> </table>	DESIGNED	CHECKED		
DESIGNED	CHECKED				

01 3rd. FLOOR FRAMING PLAN
 05-03

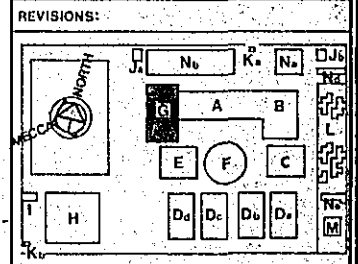
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NOTE:
1. T.O.C. = 3rd. FFL+4500



NO.	REVISIONS



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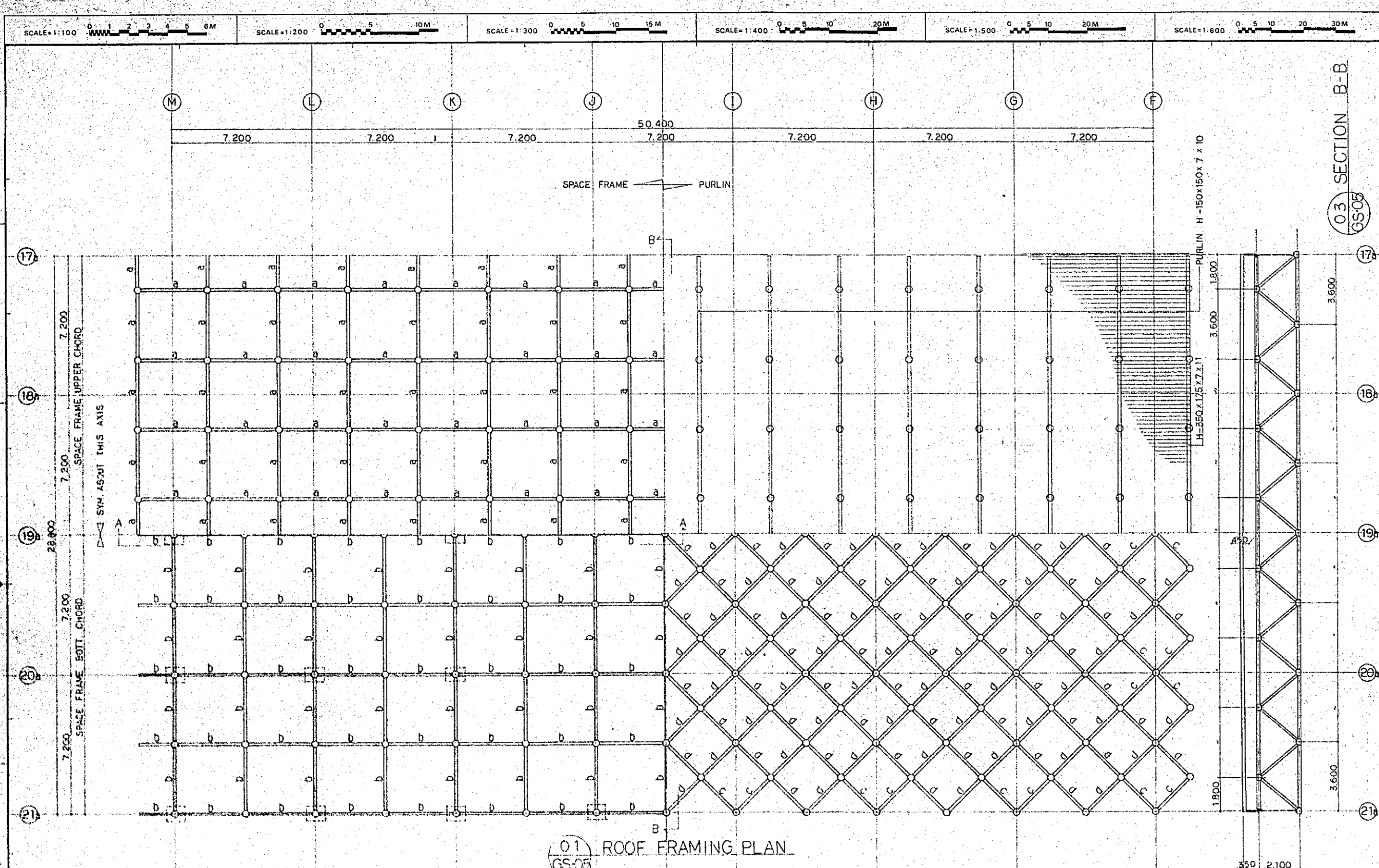
AZUSA SEKKEI CO., LTD.
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TITLE: BUILDING-G
ROOF TIE BEAM PLAN

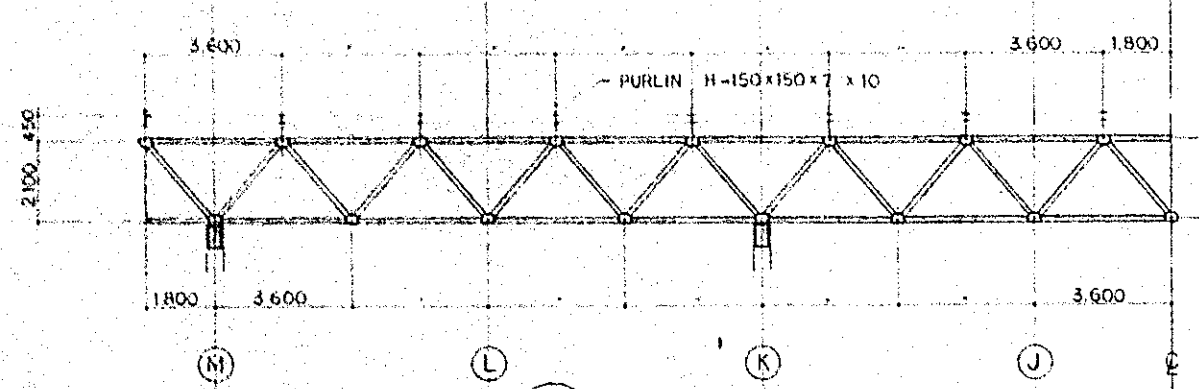
SCALE: 1/100	DWG. NO. GS-04
JOB NO.	
REF. NO.	
DATE: 31 JAN. 71	CHECKED: [Signature]

01 ROOF TIE BEAM PLAN
GS-04

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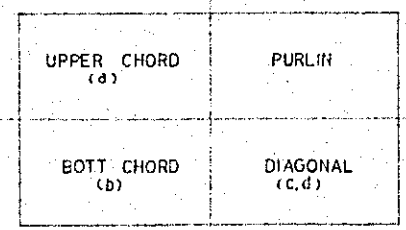


01 ROOF FRAMING PLAN
GS-05



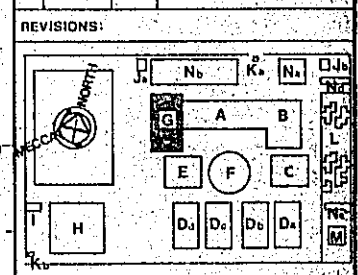
02 SECTION A-A
GS-05

PIPE MEMBER AND BOLT SCHEDULE			
MARK	PIPE SIZE	APPLICATION	BOLT SIZE
a	168.3 ^ø x 9.5	CHORD	M52
b	168.3 ^ø x 9.5	DITTO	DITTO
c	139.7 ^ø x 6.3	DIAGONAL	M39
d	139.7 ^ø x 4.5	DITTO	DITTO



KEY PLAN

NOTE:
1. FOR SPECIFICATION FOR STRUCTURAL STEEL SHOWN ON THIS DWG. SEE DWG. CDS-02



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TITLE: BUILDING - G
ROOF FRAMING PLAN

SCALE: 1/100	DWG. NO. GS-05
JOB NO.	
REF. NO.	
DATE: 31 JAN. 79	CHECKED: [Signature]

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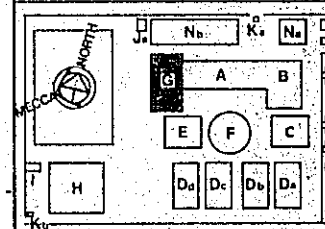


COLUMN SCHEDULE

LEVEL	COLUMN FOOTING	F				G				H				I				J				K				L				M							
		17a	18b	19a	20a	21b	17a	18a	21a	21b	17a	18a	21a	21b	17a	18a	21a	21b	17a	18a	21a	21b	17a	18b	19a	20a	21b	17a	18b	19a	20a	21b	17a	18b	19a	20a	21b
R.S.L.	COL. SIZE	450/450	450/600	450/600	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450
	VERT. REINF.	4-25 [#]	8-32 [#]	8-32 [#]	4-25 [#]	8-28 [#]	8-32 [#]	8-32 [#]	8-32 [#]	8-32 [#]	8-32 [#]	8-32 [#]	8-32 [#]	8-32 [#]	8-28 [#]	8-32 [#]	8-32 [#]	8-28 [#]	4-25 [#]	4-25 [#]	8-32 [#]	4-25 [#]	4-25 [#]	8-32 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]
	TIES	10 [#] @ 250			10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250
	TYPE	A	F	F	A	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	A	A	F	A	A	F	A	A	F	A	A	A	F	A	A
2nd FL.	COL. SIZE	450/450	450/600	450/600	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450
	VERT. REINF.	4-25 [#]	8-32 [#]	8-32 [#]	4-25 [#]	8-28 [#]	8-32 [#]	8-32 [#]	8-32 [#]	8-32 [#]	8-32 [#]	8-32 [#]	8-32 [#]	8-32 [#]	8-28 [#]	8-32 [#]	8-32 [#]	8-28 [#]	4-25 [#]	4-25 [#]	8-32 [#]	4-25 [#]	4-25 [#]	8-32 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]
	TIES	10 [#] @ 250			10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250
	TYPE	A	F	F	A	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	A	A	F	A	A	F	A	A	F	A	A	A	F	A	A
1st FL.	COL. SIZE	450/450	450/600	450/600	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450
	VERT. REINF.	4-25 [#]	8-32 [#]	8-32 [#]	4-25 [#]	8-28 [#]	8-32 [#]	8-32 [#]	8-32 [#]	8-32 [#]	8-32 [#]	8-32 [#]	8-32 [#]	8-32 [#]	8-28 [#]	8-32 [#]	8-32 [#]	8-28 [#]	4-25 [#]	4-25 [#]	8-32 [#]	4-25 [#]	4-25 [#]	8-32 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]
	TIES	10 [#] @ 250			10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250	10 [#] @ 250
	TYPE	A	F	F	A	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	A	E	F	E	A	A	F	A	A	F	A	A	A	F	A
BOTTOM OF COL.																																					
DOWELS		4-25 [#]	8-32 [#]	8-32 [#]	4-25 [#]	8-28 [#]	8-32 [#]	8-32 [#]	8-32 [#]	8-32 [#]	8-32 [#]	8-32 [#]	8-32 [#]	8-32 [#]	8-28 [#]	8-32 [#]	8-32 [#]	8-28 [#]	4-25 [#]	4-25 [#]	8-32 [#]	4-25 [#]	4-25 [#]	8-32 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]	4-25 [#]
COLUMN FOOTING	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ
	REINF.	8-16 [#]	8-16 [#]	8-16 [#]	8-16 [#]	8-16 [#]	8-16 [#]	8-16 [#]	8-16 [#]	8-16 [#]	8-16 [#]	8-16 [#]	8-16 [#]	8-16 [#]	8-16 [#]	8-16 [#]	8-16 [#]	8-16 [#]	8-16 [#]	8-16 [#]	8-16 [#]	8-16 [#]	8-16 [#]	8-16 [#]	8-16 [#]	8-16 [#]	8-16 [#]	8-16 [#]	8-16 [#]	8-16 [#]	8-16 [#]	8-16 [#]	8-16 [#]	8-16 [#]	8-16 [#]	8-16 [#]	8-16 [#]

NOTE:
1. FOR DETAILS RELATING TO COL. SCHED. SEE COMMON DETAILS.

REVISIONS:
M. JUN. 79
MAY 1979 H.O.S. MEETING



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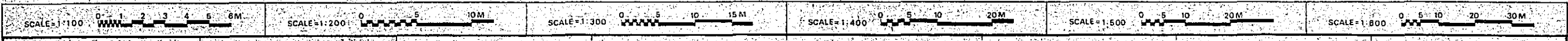
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TITLE: BUILDING-G
COLUMN SCHEDULE

SCALE:	DWG. NO.		
JOB NO.	GS-06		
REF. NO.			
DATE	DRAWN	CHECKED	CHECKED
31 JAN. 79			

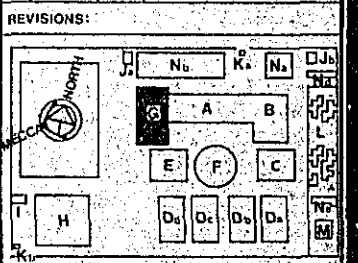
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BEAM AND GIRDER SCHEDULE

- NOTE
- 1. FOR DETAILS RELATING TO BEAM & GIRDER SCHED. SEE COMMON DETAILS.
 - 2. FOR 2- ADDITIONAL TOP BARS NOT SHOWN ON BEAM & GIRDER SCHED. SEE COMMON DETAILS CDS-05.
 - 3. FOR ASTERISK (*) AND ALPHABET (A, B) SEE COMMON DETAILS CDS-05.

BEAM MARK	SIZE		REINFORCEMENT				STIRRUPS			ARRANGEMENT		REMARKS	BEAM MARK	SIZE		REINFORCEMENT				STIRRUPS			ARRANGEMENT		REMARKS		
	W	D	SOUTH OR WEST	NORTH OR EAST	LONG	SHORT	SIZE	TYPE	SPACING	SOUTH OR WEST	NORTH OR EAST			EA. END U.O.N.	W	D	SOUTH OR WEST	NORTH OR EAST	LONG	SHORT	SIZE	TYPE	SPACING	SOUTH OR WEST		NORTH OR EAST	EA. END U.O.N.
RB1	300	600	-	-	2-25#	-	10#	□	@250				2B22	300	450	-	-	3-25#	2-25#	2-25#	10#	□	@250				
RB2			-	-	-	-							2B23			-	-	3-25#	2-25#	2-25#							
RB3			-	-	-	-							2B24			-	-	2-25#	2-25#								
RB4	300	600	-	-	2-25#	-	10#	□	@250				2B25			-	-	3-25#	2-25#								
													2B26			-	-	2-25#	-								
													2B27			-	-	-	-								
													2B28			-	-	-	-								
3B1	350	600	-	-	2-25#	-	10#	□	@250			SOUTH TOP BARS CONT. FROM 3B2	2B29			-	-	-	-								
3B2			-	-	-	-							2B30			-	-	-	-								
3B3			-	-	-	-							2B31			-	-	-	-								
3B4			1-25#	1-25#	-	-							2B32	300		-	-	2-25#	-								
3B5			-	1-25#	-	-							2B33	250		-	-	2-20#	-								
3B6			-	1-25#	-	-							2B34			-	-	-	-								
3B7			3-25#	2-25#	-	1-25#							2B35			-	-	-	-								
3B8			-	2-25#	-	-							2B36			-	-	-	-								
3B9			-	3-25#	2-25#	1-25#				@750			2B37			-	-	2-20#	-								
3B10			-	-	3-25#	3-25#			@150				2B38	250	450	-	-	2-25#	-	10#	□	@250					
3B11			1-25#	1-25#	2-25#	2-25#			@150							-	-	-	-								
3B12			1-25#	2-25#	-	1-25#			@200							-	-	-	-								
3B13			-	1-25#	-	-			@250				2B41	350	600	1-25#	4-25#	3-25#	3-25#	10#	□	@250			13 @ 150 (NORTH END) BALANCE @200		
3B14			-	2-25#	-	-			@250				2B42	350	600	-	2-25#	2-25#	1-25#						13 @ 150 (SOUTH END) BALANCE @200		
3B15	350	600	-	1-25#	2-25#	1-25#			@200				2B43	350	750	-	4-25#	3-25#	2-25#						13 @ 150 (NORTH END) BALANCE @200	*	
3B16	250	450	-	-	2-25#	-	10#	□	@250				2B44	350	750	-	1-28#	3-28#	1-28#						13 @ 150 (SOUTH END) BALANCE @200	*	
													2B45	350	600	-	-	2-28#	-						@200	* 2, TOP BARS CONT. FROM 3B4	
													2B46	350	750	-	2-28#	-	1-28#							13 @ 150 (NORTH END) BALANCE @200	*
													2B47	350	750	-	1-28#	-	1-28#							13 @ 150 (SOUTH END) BALANCE @200	*
													2B48	350	600	-	-	-	-							@200	* 2, TOP BARS CONT. FROM 3B7
													2B49	300	600	-	1-28#	2-28#	-	10#	□	@200				@200	*
2B1	350	600	1-25#	4-25#	3-25#	2-25#	10#	□	@200			SOUTH TOP BARS CONT. FROM 2B2	1B1	300	600	-	-	2-25#	1-25#	10#	□	@250					
2B2			-	2-25#	2-25#	2-25#			@200				1B2	350	650	1-25#	1-25#	2-25#	4-25#	10#	□	@250					C: ADD'L TOP BAR 1-25# (L+S-10')
2B3			-	-	-	-										-	-	-	-								
2B4			2-25#	3-25#	-	2-25#										-	-	-	-								
2B5			-	3-25#	-	-										-	-	-	-								
2B6			-	2-25#	2-25#	2-25#			@250							-	-	-	-								
2B7			3-25#	3-25#	3-25#	1-25#			@200							-	-	-	-								
2B8			1-25#	2-25#	-	-			@200							-	-	-	-								
2B9			-	2-25#	3-25#	1-25#			@200							-	-	-	-								
2B10			-	3-25#	2-25#	2-25#			13 @ 150 (EAST END) BALANCE @200							-	-	-	-								
2B11			-	1-25#	-	-			@200							-	-	-	-								
2B12			-	3-25#	-	-			@200							-	-	-	-								
2B13			-	-	-	-			13 @ 150 (WEST END) BALANCE @200							-	-	-	-								
2B14			-	3-25#	-	2-25#			13 @ 150 (EAST END) BALANCE @200							-	-	-	-								
2B15			-	1-25#	-	-			@200							-	-	-	-								
2B16			-	1-25#	-	-			@200							-	-	-	-								
2B17			-	-	-	2-25#			13 @ 150 (WEST END) BALANCE @200							-	-	-	-								
2B18			1-25#	2-25#	-	-			@250							-	-	-	-								
2B19			-	2-25#	-	-										-	-	-	-								
2B20	350	600	-	1-25#	2-25#	-										-	-	-	-								
2B21	300	450	-	-	3-25#	2-25#	10#	□	@250							-	-	-	-								

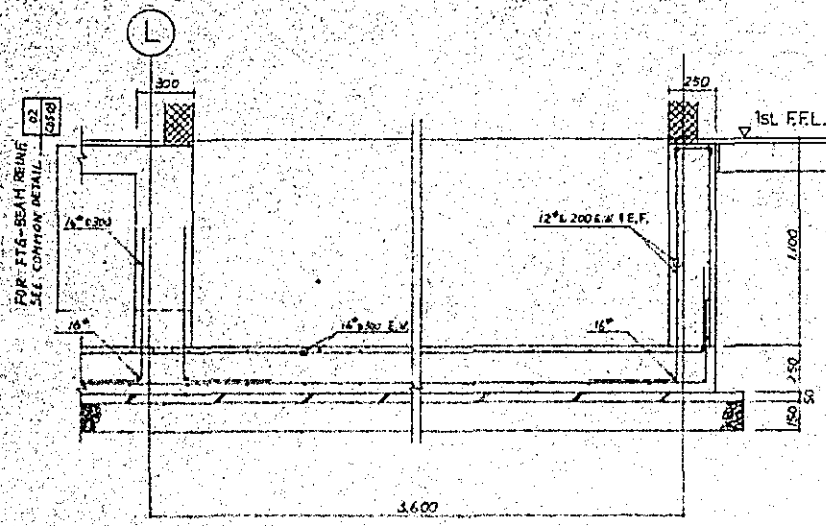


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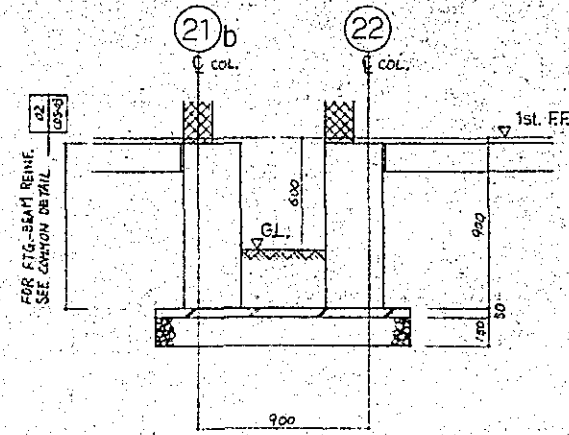
AZUSA SEKKEI CO. LTD.
2-27-3 NISHIGOTANDA, SHINAGAWA-KU,
TOKYO, JAPAN

TITLE: BUILDING-G
BEAM AND GIRDER
SCHEDULE

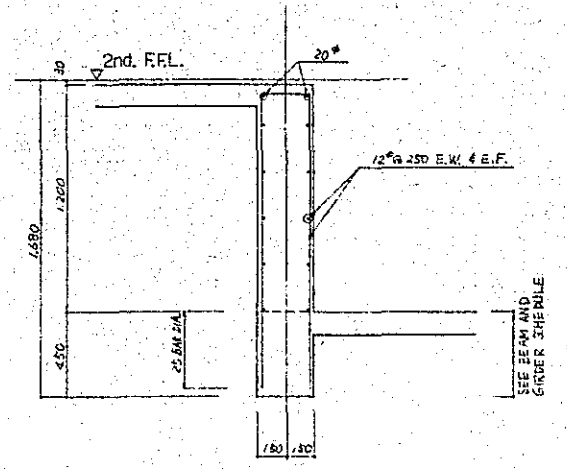
SCALE:	DWG. NO.
JOB NO.	GS-07
REF. NO.	
DATE	DRAWN
51 JAN. 79	UT



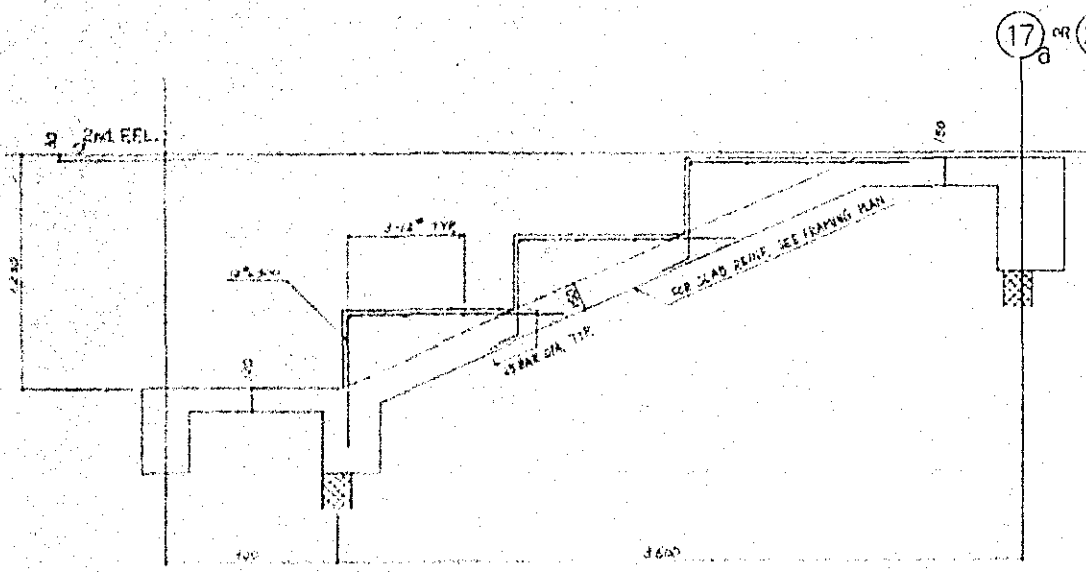
01 SECTIONAL DETAIL
GS-08 1/20



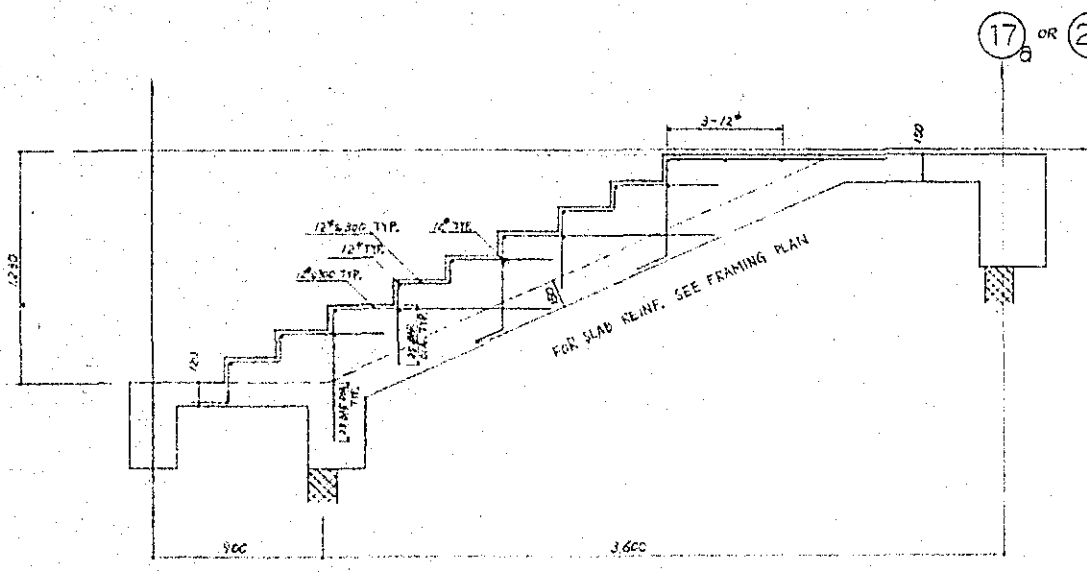
02 SECTIONAL DETAIL
GS-08 1/20



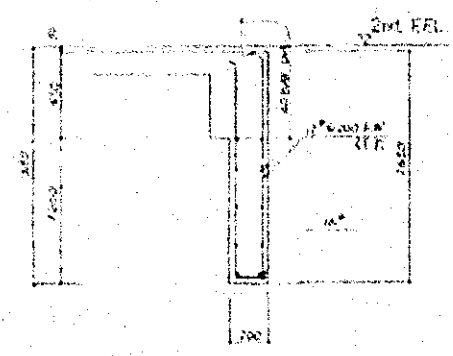
03 SECTIONAL DETAIL
GS-08 1/20



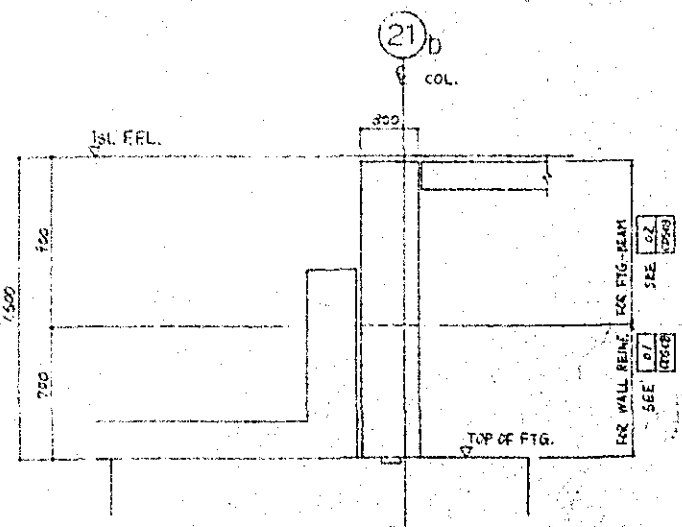
04 SECTIONAL DETAIL
GS-08 1/20



05 SECTIONAL DETAIL
GS-08 1/20



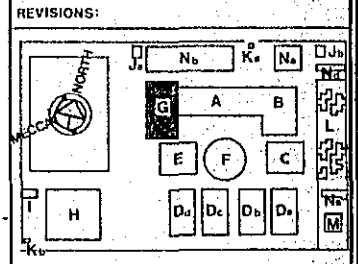
06 SECTIONAL DETAIL
GS-08 1/20



07 SECTIONAL DETAIL
GS-08 1/20

NOTE:

NO.	REVISION	DATE



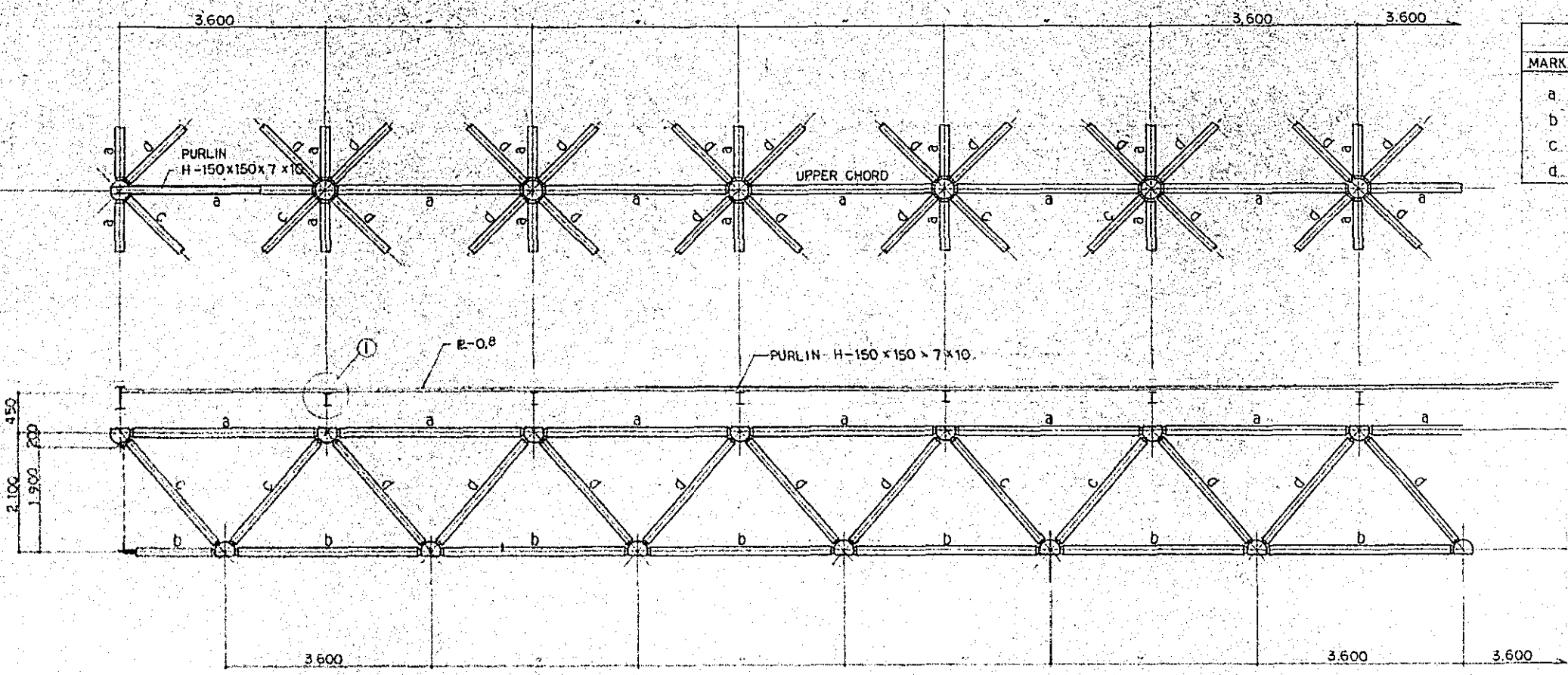
KINGDOM OF SAUDI ARABIA
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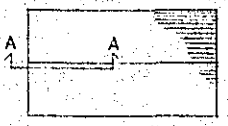
AZUSA SEKKEI CO. LTD.
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TOKYO, JAPAN

TITLE: BUILDING-G
SECTIONAL DETAILS

SCALE: 1/20	DWG. NO.
JOB NO.	GS-08
REF. NO.	
DATE: 31 JAN. 79	DRAWN: [Signature]
CHECKED: [Signature]	



PIPE MEMBER AND BOLT SCHEDULE			
MARK	PIPE SIZE	APPLICATION	BOLT SIZE
a	168 ³⁰ x 9.5	CHORD	M52
b	168 ³⁰ x 9.5	DITTO	DITTO
c	139.7 ⁶ x 6.3	DIAGONAL	M39
d	139.7 ⁶ x 4.5	DITTO	DITTO

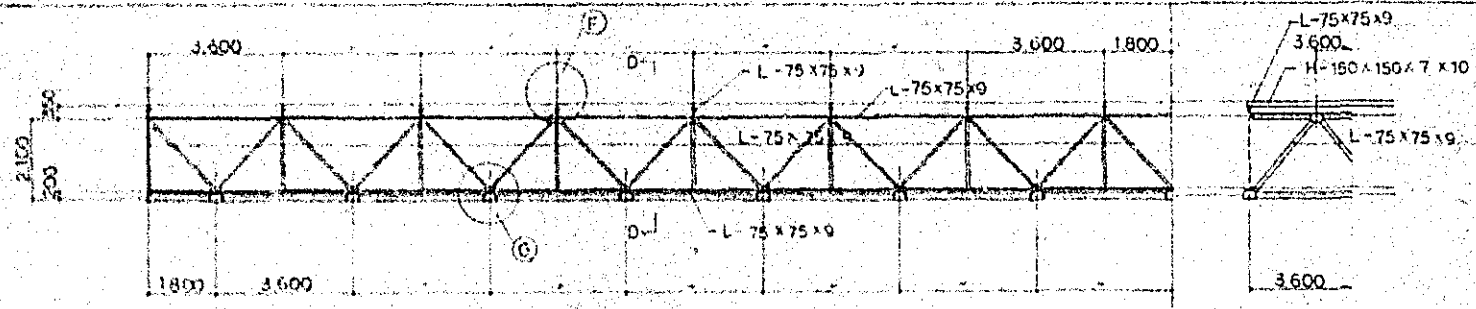
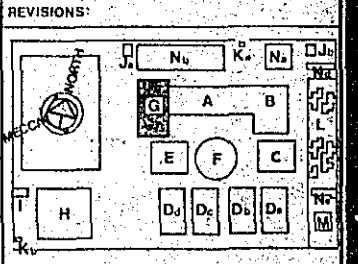


KEY PLAN

01 SECTION A-A
GS-05

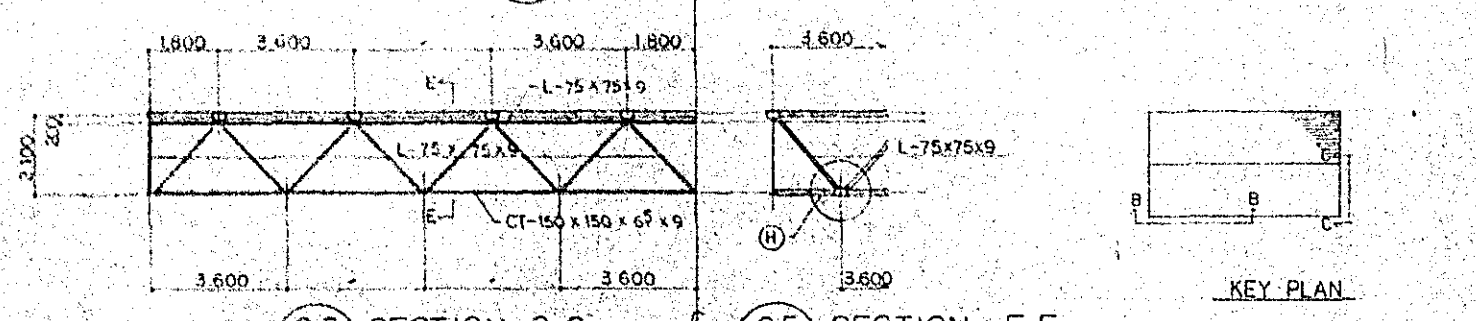
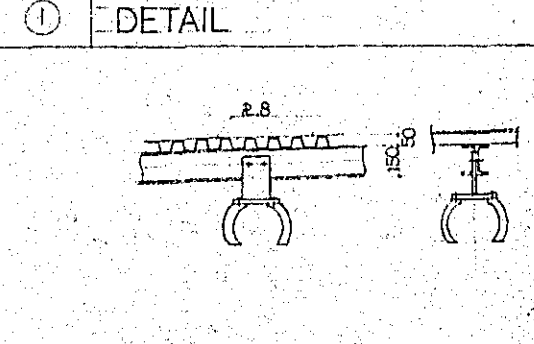
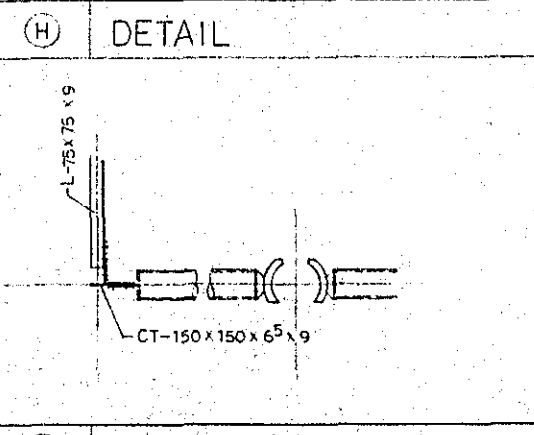
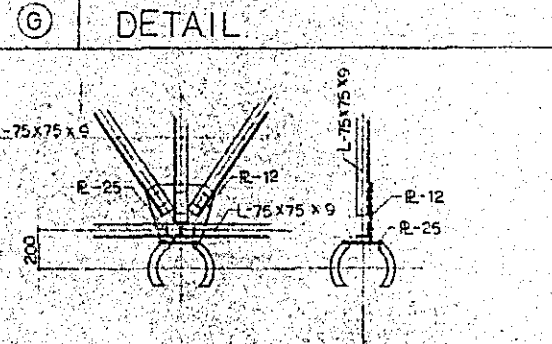
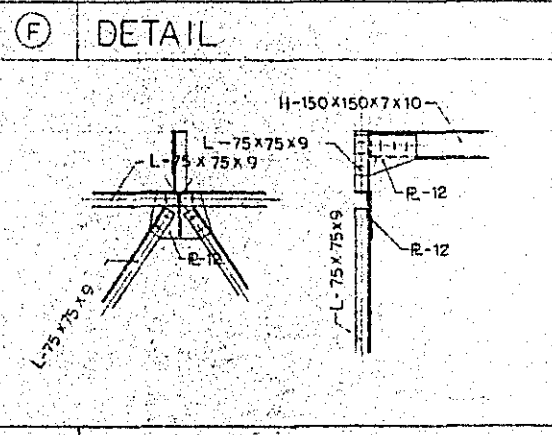
NOTE:
1. FOR SPECIFICATION FOR STRUCTURAL STEEL SHOWN ON THIS DWG. SEE DWG. CDS-02

NO.	DESCRIPTION	DATE



02 SECTION B-B
GS-05

04 SECTION D-D
GS-05



03 SECTION C-C
GS-05

05 SECTION E-E
GS-05

KEY PLAN

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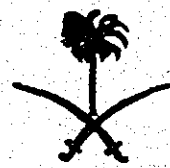
AZUSA SEKKEI CO., LTD.
2-27-3 NISHIGOTANDA, SHINAGAWA-KU,
TOKYO, JAPAN

TITLE: BUILDING - G
DETAILS OF SPACE
FRAME

SCALE: 1/50 : 1/20	DWG. NO. GS-09
JOB NO.	
REF. NO.	
DATE: 31 JAN. 79	

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وزارة المعارف
المعهد الفني للإلكترونيات في الرياض

المملكة العربية السعودية
وزارة المعارف

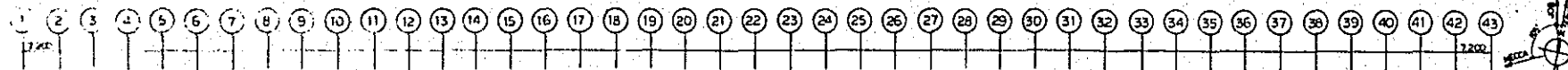


TECHNICAL ELECTRONICS INSTITUTE IN RIYADH المعهد الفني للإلكترونيات في الرياض VOLUME 2

THE KINGDOM OF SAUDI ARABIA
MINISTRY OF EDUCATION

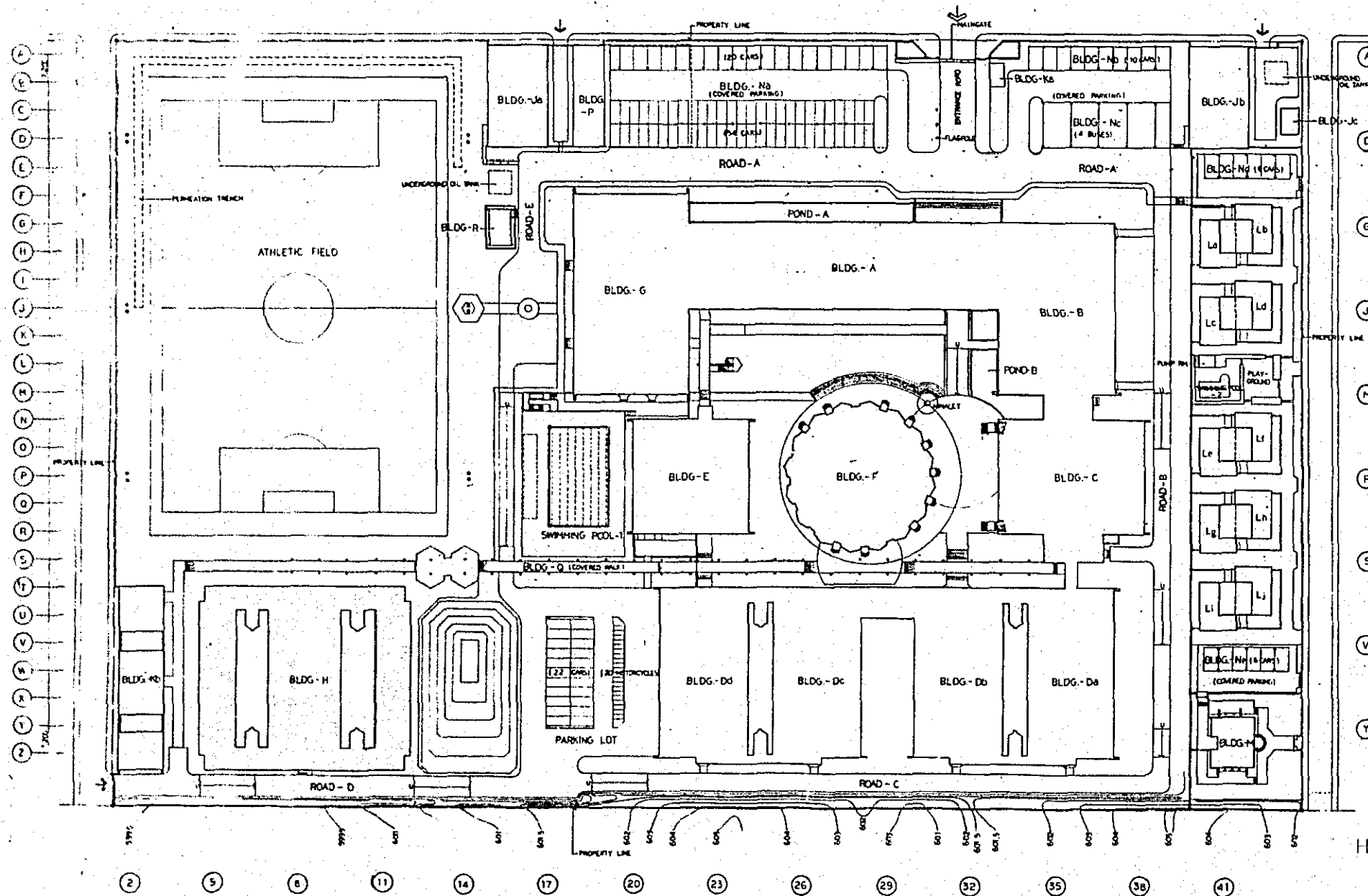
BUILDING-H DORMITORY

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- ADMINISTRATION
- GENERAL EDUCATION
- AUDITORIUM / COMPUTER
- TECHNICAL EDUCATION
- CAFETERIA / LIBRARY
- MOSQUE
- GYMNASIUM
- DORMITORY
- GENERATOR
- GUARD / SERVANT
- TEACHERS' RESIDENCES
- DIRECTOR'S VILLA
- COVERED PARKING
- TREATMENT PLANT
- COVERED WALK
- GAS STORAGE

A
B
C
D
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Q
R



SCALE=1:100 0 1 2 3 4 5 6M

SCALE=1:200 0 5 10M

SCALE=1:300 0 5 10 15M

SCALE=1:400 0 5 10 20M

SCALE=1:500 0 5 10 20M

SCALE=1:600 0 5 10 20 30M

INDEX OF DRAWING VOLUMES TECHNICAL ELECTRONICS INSTITUTE IN RIYADH

VOLUME 1	VOLUME 2	VOLUME 3	VOLUME 4
ARCHITECTURAL	STRUCTURAL	MECHANICAL	ELECTRICAL

INDEX OF DRAWINGS FOR BUILDING-H, DORMITORY

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COVER SHEET	HG-01
GENERAL NOTES	HG-02

ARCHITECTURAL (VOLUME 1)

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TYPICAL FLOOR PLAN	1 / 100	HA-02
ROOF PLAN	1 / 100	HA-03
ELEVATION	1 / 100	HA-04
ELEVATION	1 / 100	HA-05
SECTIONS	1 / 100	HA-06
WALL SECTIONS	1 / 50	HA-07
WALL SECTIONS	1 / 50	HA-08
WALL SECTIONS	1 / 50	HA-09
PLAN & SECTION DETAILS	1 / 50	HA-10
DETAILS-STAIRS	1 / 50	HA-11
REFLECTED CEILING PLAN	1 / 100	HA-12

STRUCTURAL (VOLUME 2)

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TYPICAL FLOOR FRAMING PLAN	1 / 100	HS-02
ROOF FRAMING PLAN	1 / 100	HS-03
COLUMN SCHEDULE		HS-04
COLUMN SCHEDULE		HS-05
BEAM AND GIRDER SCHEDULE		HS-06
BEAM AND GIRDER SCHEDULE		HS-07
SECTIONAL DETAILS	1 / 20	HS-08

MECHANICAL (VOLUME 3)

CHILLED WATER DIAGRAM		HM-01
DUCT DIAGRAM		HM-02
1st FLOOR PLAN	1 / 100	HM-03
2nd FLOOR PLAN	1 / 100	HM-04
3rd FLOOR PLAN	1 / 100	HM-05
4th FLOOR PLAN	1 / 100	HM-06
ROOF PLAN	1 / 100	HM-07
MOTOR POWER AND CONTROL WIRING SYSTEM		
1st FLOOR PLAN	1 / 100	HM-08
2nd 3rd 4th FLOOR PLAN	1 / 100	HM-09
ROOF PLAN	1 / 100	HM-10

PLUMBING (VOLUME 3)

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DIAGRAM NO 2		HP-02
DIAGRAM NO 3		HP-03
DIAGRAM NO 4		HP-04
WATER SUPPLY		
1st FLOOR PLAN	1 / 100	HP-05
2nd, 3rd FLOOR PLAN	1 / 100	HP-06
4th FLOOR PLAN	1 / 100	HP-07
ROOF PLAN	1 / 100	HP-08
DRAINAGE		
1st FLOOR PLAN	1 / 100	HP-09
2nd, 3rd FLOOR PLAN	1 / 100	HP-10
4th FLOOR PLAN	1 / 100	HP-11
SOLAR SYSTEM		
DIAGRAM		HP-12
COLLECTOR DETAIL		HP-13
HOT WATER STORAGE TANK DETAIL		HP-14
CONTROL CIRCUIT NO 1		HP-15
CONTROL CIRCUIT NO 2		HP-16
ELECTRIC HEATER CONTROL CIRCUIT NO 1		HP-17
ELECTRIC HEATER CONTROL CIRCUIT NO 2		HP-18
FIRE PROTECTION		
1st FLOOR PLAN	1 / 100	HP-19
2nd, 3rd, 4th FLOOR PLAN	1 / 100	HP-20

ELECTRICAL (VOLUME 4)

FELDER SYSTEM 1st FLOOR PLAN	1 / 100	HE-01
TYPICAL FLOOR PLAN	1 / 100	HE-02
ROOF FLOOR PLAN	1 / 100	HE-03
LIGHTING & SOCKET OUTLET		
1st FLOOR PLAN	1 / 100	HE-04
TYPICAL FLOOR PLAN	1 / 100	HE-05
ROOF FLOOR PLAN	1 / 100	HE-06
DISTRIBUTION PANEL LIST NO 1		HE-07
DISTRIBUTION PANEL LIST NO 2		HE-08
COMMUNICATION SYSTEM		
1st FLOOR PLAN	1 / 100	HE-09
TYPICAL FLOOR PLAN	1 / 100	HE-10
FIRE ALARM SYSTEM		
1st FLOOR PLAN	1 / 100	HE-11
TYPICAL FLOOR PLAN	1 / 100	HE-12

FURNISHING (VOLUME 1)

1st FLOOR PLAN FURNISHING	1 / 100	HF-01
TYPICAL FLOOR FURNISHING	1 / 100	HF-02

GENERAL INFORMATION

THE DRAWINGS ARE DIVIDED INTO FOUR VOLUMES FOR EASE OF HANDLING. IN ORDER TO SATISFY THE REQUIREMENT FOR FLEXIBILITY IN TERMS OF ISOLATING INDIVIDUAL BUILDINGS, THE DRAWINGS IN VOLUME I, II, III AND IV ARE ORGANIZED INTO BUILDING SETS.

EACH SET HAS ITS OWN COVER SHEET, INDEX AND INTERNAL NUMBERING SYSTEM, AND INCLUDES ALL DISCIPLINES' DRAWINGS FOR THAT BUILDING. EACH SET CAN BE COMPLETED BY COMBINING WITH THE COMMON DETAIL SET. FOR CONVENIENCE WHEN BOUND INTO VOLUMES.

GRID DIMENSIONING SYSTEM

THE METRIC SYSTEM HAS BEEN USED THROUGHOUT THE DOCUMENTS. THE LARGE MODULAR GRID REPRESENTS THE 7.2 STRUCTURAL GRID. THE ENTIRE SITE IS KEYED TO THIS GRID BY ALPHABET AND NUMBER. THE SMALLER MODULE IS THE 0.9 PLANNING GRID. TYPICALLY, ALL PARTITIONS ARE CENTERED ON THIS GRID. ELEMENTS NOT INDICATED AS BEING CENTERED ON EITHER GRID ARE DIMENSIONED TO THE CLOSEST GRID LINE. IF NO DIMENSION APPEARS, THE ELEMENT IS TO BE CENTERED ON THE GRID LINE.

PARTITION SCHEDULE

A PARTITION SCHEDULE IS LOCATED ON EACH FLOOR PLAN SHEET. PARTITION TYPES ARE IDENTIFIED ON THE PLANS BY USE OF A SYMBOL ADJACENT TO EACH PARTITION OR BY A NOTE IN THE SCHEDULE IDENTIFYING GROUPS OF PARTITIONS. THE PARTITION TYPES ARE LOCATED IN THE ARCHITECTURAL COMMON DETAIL SET.

INTERIOR COLUMN AND EXTERIOR WALL IS CONSIDERED A PARTITION TYPE AND IS ACCOMMODATED IN THE PARTITION NOTES AND SCHEDULE.

DOOR SCHEDULE

THE DOOR SCHEDULE IS TYPICALLY INDICATED ON EACH DOOR ON EACH FLOOR PLAN SHEET WITHIN EACH BUILDING SET. THE DOOR TYPES ARE LOCATED IN THE ARCHITECTURAL COMMON DETAIL SET. WHEN DOORS ARE CALLED IN NOTES, DOORS ARE TO BE IDENTIFIED BY THE NAMES AND NUMBERS OF THE ROOMS SERVED. FOR ROOMS CONTAINING MORE THAN ONE DOOR, SUFFIXAL LETTERS ARE USED (a, b, c, ETC.). HARDWARE FOR EACH DOOR IS DESCRIBED IN THE HARDWARE TYPES BOUND IN THE SPECIFICATIONS. THE HARDWARE GROUPS ARE INDICATED ON EACH DOOR ON EACH FLOOR PLAN WITHIN EACH BUILDING SET. DOOR FRAME PROFILES ARE ALSO DRAWN IN THE ARCHITECTURAL COMMON DETAIL SET AND REFERENCED ON THE PLAN SHEETS AND DOOR SCHEDULE.

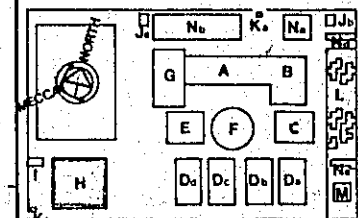
FINISH SCHEDULE

THE FINISH SCHEDULE IS TYPICALLY LOCATED ON EACH FLOOR PLAN SHEET OF EACH BUILDING SET, AND DESCRIBES THE FINISH FOR EACH SPACE ON EACH PLAN. THE MATERIAL LEGEND IS LOCATED IN THE ARCHITECTURAL COMMON DETAIL SET. NOTE THAT THE FINISH SCHEDULE INDICATES FINISH SURFACE ONLY, NOT THE SUBSTRATE TO WHICH IT IS APPLIED. FOR SUBSTRATE MATERIAL SEE THE PARTITION SCHEDULE.

NOTE:

A 2/28/77 GENERAL

REVISIONS:



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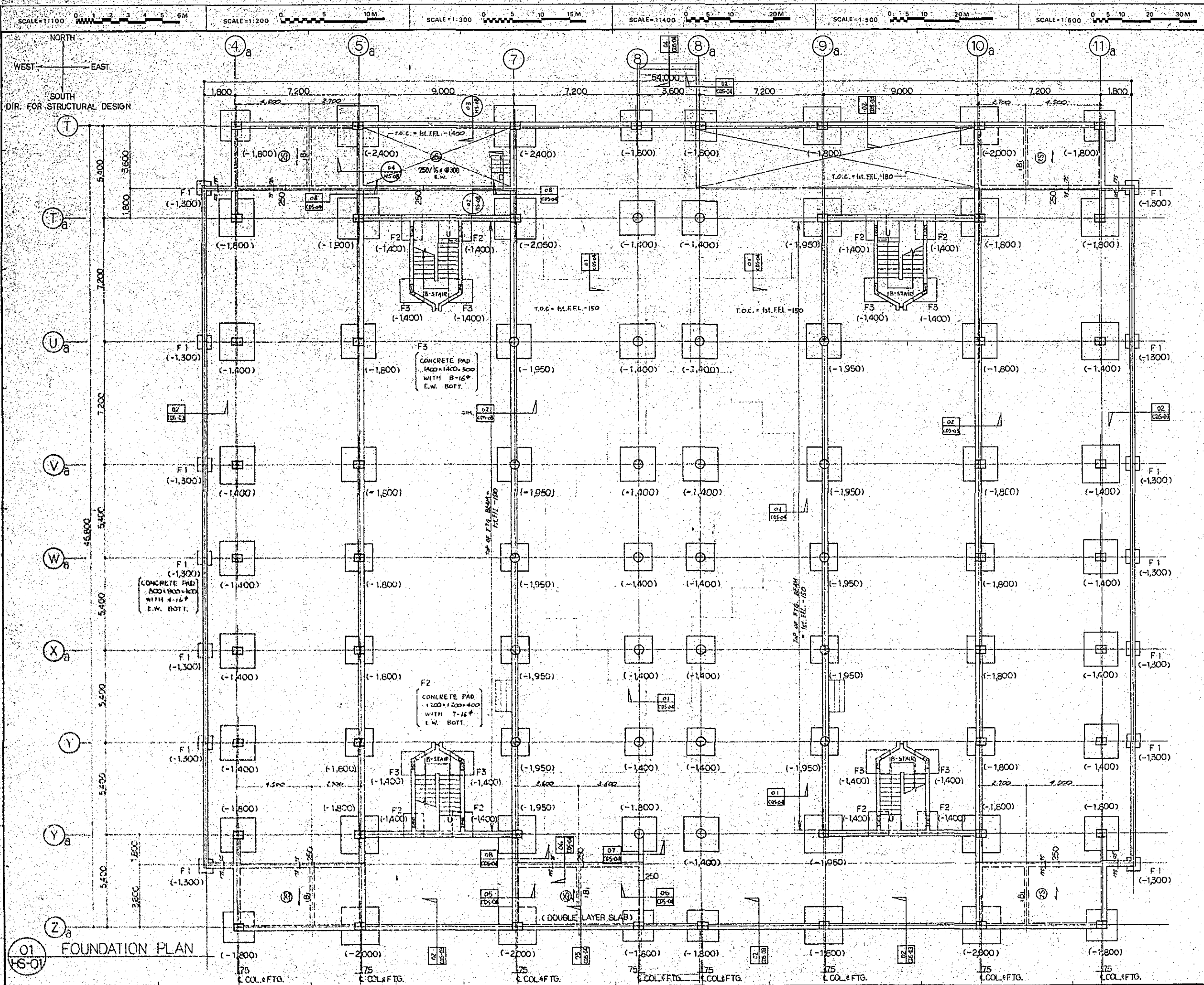
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TITLE:
GENERAL NOTES

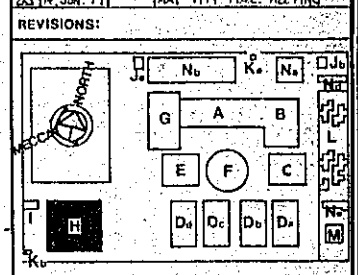
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JOB NO.	
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DATE: 31 JAN 79	DRAWN: [Signature] CHECKED: [Signature]

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- NOTE:
- (---) DENOTES BOTTOM OF FTG. EL. FROM 1st FFL.
 - T.O.C. = 1st. FFL. - 30.
 - | INDICATES DIR. OF MAIN REINFORCEMENT IN SLAB.

NO.	DATE	DESCRIPTION
14	JUN. 74	MAY 1974 H.Q. MEETING



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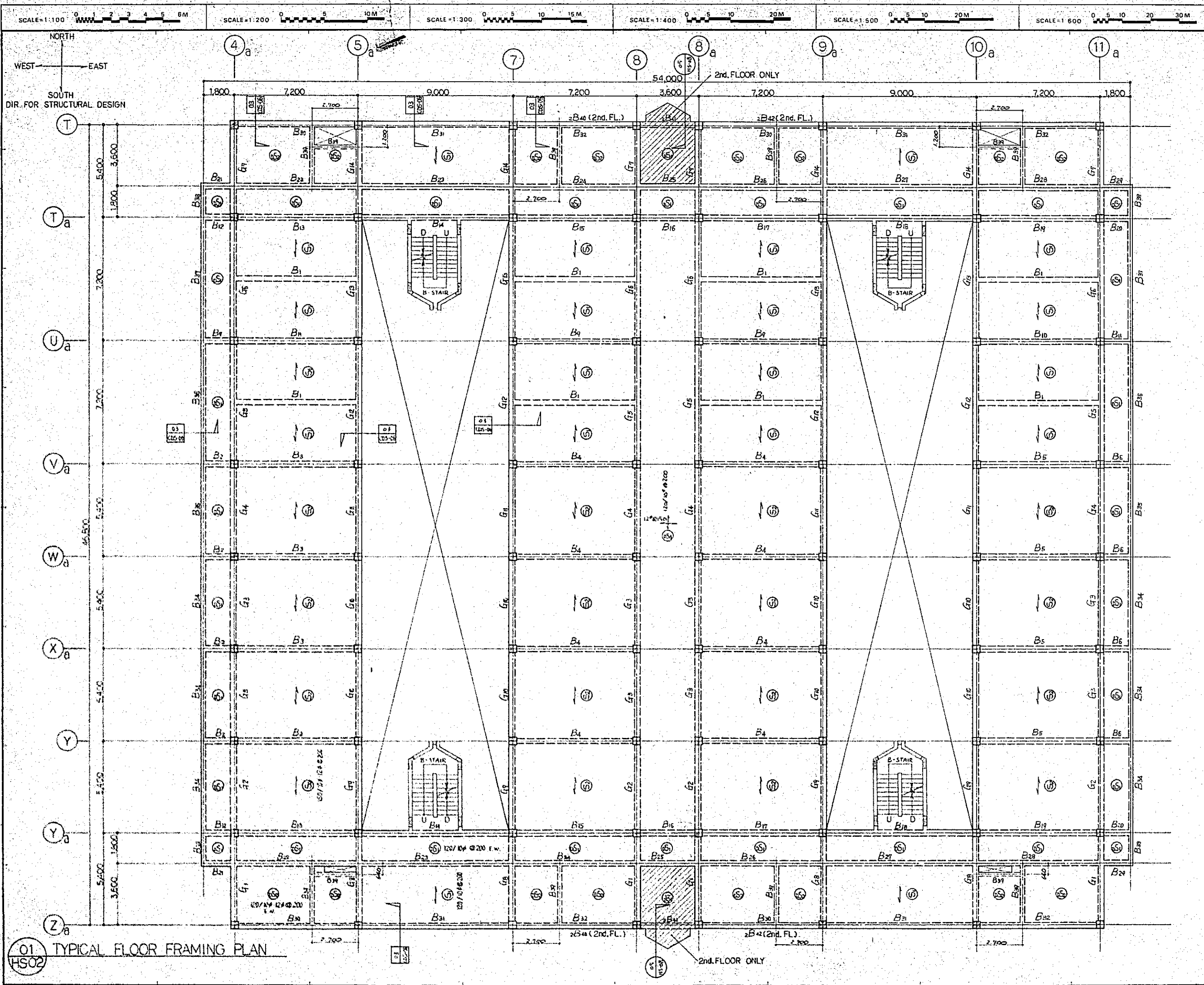
AZUSA SEKKEI CO., LTD.
2-27-3 NISHIGOTANDA, SHINAGAWA-KU,
TOKYO, JAPAN

TITLE: BUILDING-H
FOUNDATION PLAN

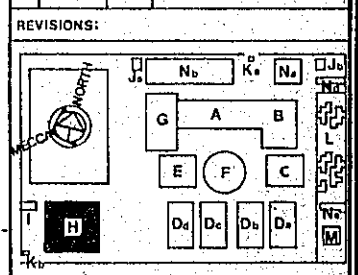
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JOB NO.	
REF. NO.	
DATE: 31. JAN. 74	CHECKED: [Signature]

01 HS-01 FOUNDATION PLAN

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وزارة المعارف
المعهد الفني الإلكتروني في الرياض



- NOTE:
- INDICATES DIR. OF MAIN REINFORCEMENT IN SLAB.
 - T.O.C. = 2nd., 3rd., 4th., F.F.L. - 30 U.O.N.



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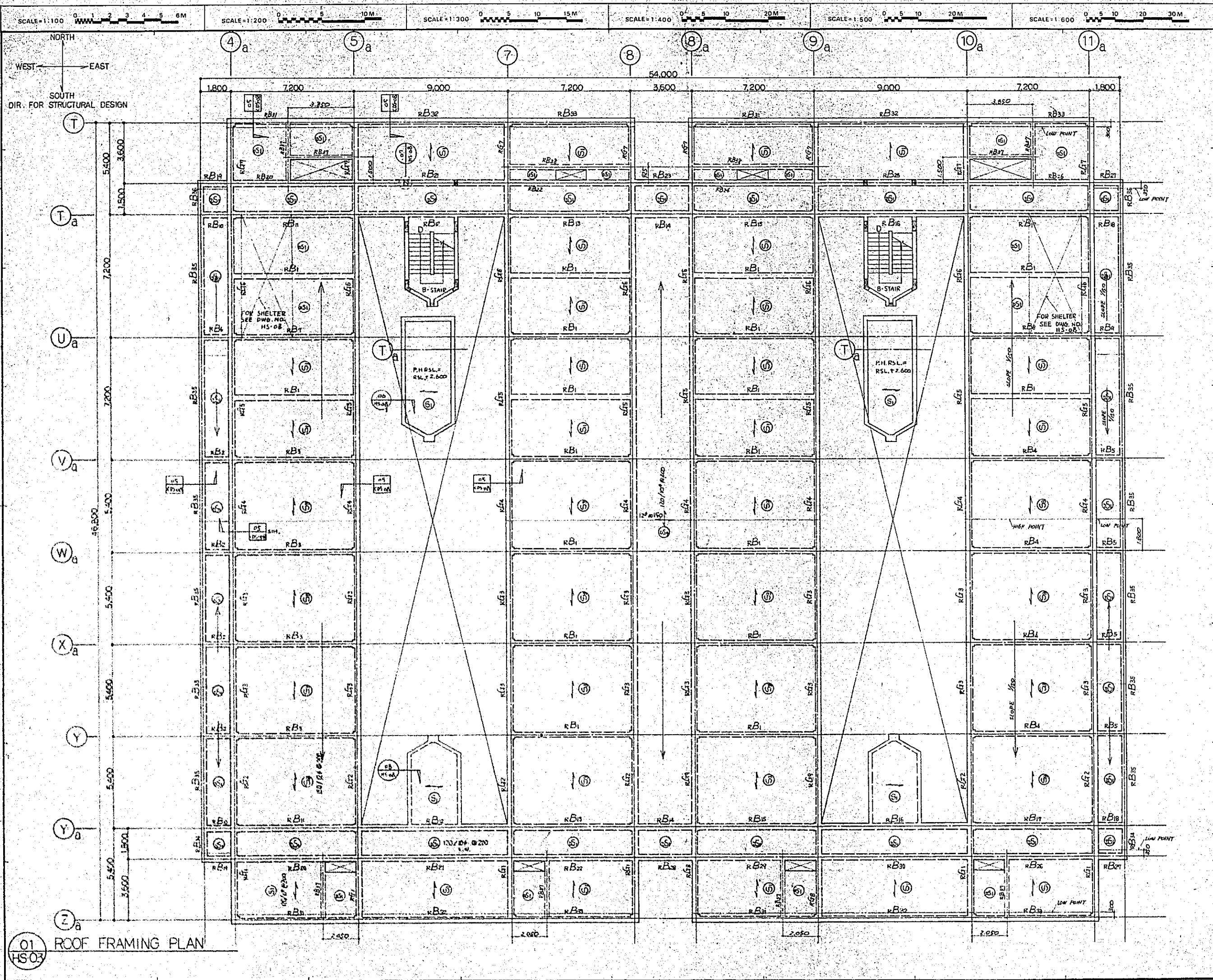
AZUSA SEKKEI CO., LTD.
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 TOKYO, JAPAN

TITLE: BUILDING-H
 TYPICAL FLOOR
 FRAMING PLAN

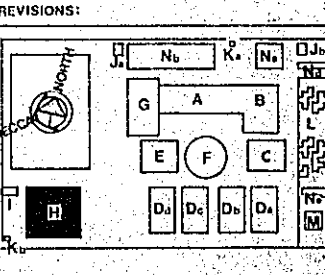
SCALE: 1/100	DWG. NO.
JOB NO.	HS-02
REF. NO.	
DATE: 31. JAN. 79	CHECKED: 14

01
 HS02 TYPICAL FLOOR FRAMING PLAN

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NOTE:
 1. INDICATES DIR. OF MAIN REINFORCEMENT IN SLAB.
 2. T.O.C. (LOW POINT) = RSL. + 0



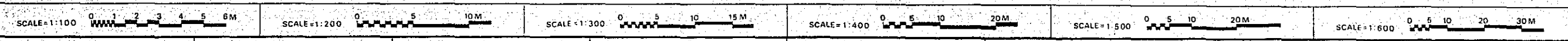
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TITLE: BUILDING-H
 ROOF FRAMING PLAN

SCALE: 1/100	DWG. NO.: HS-03
JOB NO.:	
REF. NO.:	
DATE: 31.JAN.79	CHECKED: [Signature]

01 HSO. ROOF FRAMING PLAN

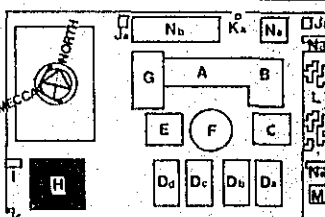


COLUMN SCHEDULE

LEVEL	COLUMN FOOTING	T										T _a										U _a										V _a										W _a									
		4a	5a	7	8	8a	9a	10a	11a	4a	5a	7	8	8a	9a	10a	11a	4a	5a	7	8	8a	9a	10a	11a	4a	5a	7	8	8a	9a	10a	11a	4a	5a	7	8	8a	9a												
RSL	COL. SIZE	A/B 450/450																																A/B 450/450																	
	VERT. REINF.	4-25 ϕ																																4-25 ϕ																	
	TIES	10 ϕ @ 250																																10 ϕ @ 250																	
	TYPE	A																																A																	
4th FL.	COL. SIZE	A/B 450/450																																A/B 450/450																	
	VERT. REINF.	4-25 ϕ																																4-25 ϕ																	
	TIES	10 ϕ @ 250																																10 ϕ @ 250																	
	TYPE	A																																A																	
3rd FL.	COL. SIZE	A/B 450/450																																A/B 450/450																	
	VERT. REINF.	8-25 ϕ																																8-25 ϕ																	
	TIES	10 ϕ @ 250																																10 ϕ @ 250																	
	TYPE	D																																D																	
2nd FL.	COL. SIZE	A/B 600/450																																A/B 600/450																	
	VERT. REINF.	10-25 ϕ																																10-25 ϕ																	
	TIES	10 ϕ @ 250																																10 ϕ @ 250																	
	TYPE	H																																H																	
1st FL.	COL. SIZE	A/B 600/450																																A/B 600/450																	
	VERT. REINF.	10-25 ϕ																																10-25 ϕ																	
	TIES	10 ϕ @ 250																																10 ϕ @ 250																	
	TYPE	H																																H																	
BOTTOM OF COL.																																																			
DOWELS		0-25 ϕ																																0-25 ϕ																	
COLUMN FOOTING	SIZE	A	1.8x1.8	2.1x2.1	2.4x2.4	2.7x2.7	3.0x3.0	3.3x3.3	3.6x3.6	3.9x3.9	4.2x4.2	4.5x4.5	4.8x4.8	5.1x5.1	5.4x5.4	5.7x5.7	6.0x6.0	6.3x6.3	6.6x6.6	6.9x6.9	7.2x7.2	7.5x7.5	7.8x7.8	8.1x8.1	8.4x8.4	8.7x8.7	9.0x9.0	9.3x9.3	9.6x9.6	9.9x9.9	10.2x10.2	10.5x10.5	10.8x10.8	11.1x11.1	11.4x11.4	11.7x11.7	12.0x12.0														
	REINF.		10-16 ϕ	12-20 ϕ	12-20 ϕ	12-20 ϕ	12-20 ϕ	12-20 ϕ	12-20 ϕ	12-20 ϕ	12-20 ϕ	12-20 ϕ	12-20 ϕ	12-20 ϕ	12-20 ϕ	12-20 ϕ	12-20 ϕ	12-20 ϕ	12-20 ϕ	12-20 ϕ	12-20 ϕ	12-20 ϕ	12-20 ϕ	12-20 ϕ	12-20 ϕ	12-20 ϕ	12-20 ϕ	12-20 ϕ	12-20 ϕ	12-20 ϕ	12-20 ϕ	12-20 ϕ	12-20 ϕ	12-20 ϕ	12-20 ϕ	12-20 ϕ	12-20 ϕ														

NOTE:
1. FOR DETAILS RELATING TO COL. SCHED. SEE COMMON DETAILS.

REVISIONS:
14 JUN 79 MAY 1979 PLR. MEETING



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TOKYO, JAPAN

TITLE: BUILDING-H
COLUMN SCHEDULE

SCALE:	DWG. NO:
JOB NO:	HS-04
REF. NO:	
DATE:	DRAWN:
31 JAN 79	
CHECKED:	CHECKED:

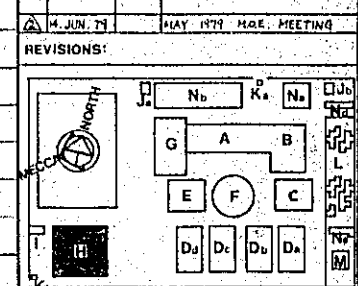
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COLUMN SCHEDULE

NOTE:
1. FOR DETAILS RELATING TO COL. SCHED. SEE COMMON DETAILS.

LEVEL	COLUMN FOOTING	W _a		X _a								Y								Y _a								Z _a							
		10a	11a	4a	5a	7	8	8a	9a	10a	11a	4a	5a	7	8	8a	9a	10a	11a	4a	5a	7	8	8a	9a	10a	11a	4a	5a	7	8	8a	9a	10a	11a
RSL	COL. SIZE	A	450																																450
	VERT. REINF.	B	4-25φ																																4-25φ
	TIES		10φ@200																																10φ@250
	TYPE		A																																A
4th FFL	COL. SIZE	A	450																															450	
	VERT. REINF.	B	4-25φ																																4-25φ
	TIES		10φ@200																																10φ@250
	TYPE		A																																A
3rd FFL	COL. SIZE	A	450																															450	
	VERT. REINF.	B	8-25φ																																8-25φ
	TIES		10φ@200																																10φ@250
	TYPE		D																																D
2nd FFL	COL. SIZE	A	600		800	850φ																												600	
	VERT. REINF.	B	10-25φ		10-25φ	8-25φ																													10-25φ
	TIES		10φ@200		10φ@200	10φ@200																													10φ@200
	TYPE		H		H	K																													H
1st FFL	COL. SIZE	A	600		800	850φ																												600	
	VERT. REINF.	B	10-25φ		10-25φ	8-25φ																													10-25φ
	TIES		10φ@200		10φ@200	10φ@200																													10φ@200
	TYPE		H		H	K																													H
BOTTOM OF COL.																																			
DOWELS																																			
COLUMN FOOTING	SIZE	A	1.600	2.000	2.000	1.600																													
	REINF.		4-16φ	10-20φ	10-20φ	4-16φ																													



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TITLE: BUILDING - H -
COLUMN SCHEDULE

SCALE:	DWG. NO.		
JOB NO.	HS-05		
REF. NO.			
DATE	DRAWN	CHECKED	CHECKED
31. JAN. 79	(Signature)	(Signature)	(Signature)

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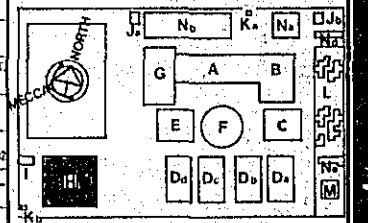
BEAM AND GIRDER SCHEDULE

BEAM MARK	SIZE		REINFORCEMENT				STIRRUPS			ARRANGEMENT		REMARKS	BEAM MARK	SIZE		REINFORCEMENT				STIRRUPS			ARRANGEMENT		REMARKS
	W	D	TOP BARS SOUTH OR WEST	TOP BARS NORTH OR EAST	BOTTOM BARS LONG	BOTTOM BARS SHORT	SIZE	TYPE	SPACING EA. END U.O.N.	SOUTH OR WEST	NORTH OR EAST			W	D	TOP BARS SOUTH OR WEST	TOP BARS NORTH OR EAST	BOTTOM BARS LONG	BOTTOM BARS SHORT	SIZE	TYPE	SPACING EA. END U.O.N.	SOUTH OR WEST	NORTH OR EAST	
RB1	300	600	-	-	2-25 ^o	1-25 ^o	10 ^o	□	@250				B1	300	600	-	-	2-25 ^o	2-25 ^o	10 ^o	□	@250			
RB2			-	2-25 ^o	-	-							B2	350		-	1-25 ^o	2-25 ^o	-			@200			
RB3			-	-	2-25 ^o	-							B3	350		-	2-25 ^o	4-25 ^o	-			@250		TOP BARS CONT. FROM B2	
RB4			-	2-25 ^o	2-25 ^o	-							B4	300		1-25 ^o	1-25 ^o	2-25 ^o	2-25 ^o			@250			
RB5			-	-	-	-							B5	350		2-25 ^o	4-25 ^o	4-25 ^o	-			@250		TOP BARS CONT. FROM RB4	
RB6			-	3-25 ^o	-	-							B6			-	-	2-25 ^o	-			@200		TOP BARS CONT. FROM B5	
RB7			-	-	2-25 ^o	-							B7			-	4-28 ^o	2-28 ^o	-			@150		TOP BARS CONT. FROM RB6	
RB8			-	3-25 ^o	2-25 ^o	-							B8	350		-	1-28 ^o	3-28 ^o	-			@250		TOP BARS CONT. FROM B7	
RB9	300		-	-	-	-							B9	300		1-25 ^o	1-25 ^o	2-25 ^o	1-25 ^o			@250		TOP BARS CONT. FROM RB9	
RB10	350		-	2-25 ^o	-	-							B10	350		1-28 ^o	4-28 ^o	3-28 ^o	-			@250		TOP BARS CONT. FROM RB10	
RB11		600	-	2-25 ^o	1-25 ^o	-							B11			-	-	2-28 ^o	-			@150		TOP BARS CONT. FROM RB11	
RB12		700	-	2-25 ^o	2-25 ^o	-							B12			-	2-25 ^o	2-25 ^o	-			@250		TOP BARS CONT. FROM B10	
RB13		600	-	1-25 ^o	1-25 ^o	-							B13	600		-	2-25 ^o	1-25 ^o	-					TOP BARS CONT. FROM B12	
RB14		600	-	1-25 ^o	-	-							B14	700		-	2-25 ^o	1-25 ^o	-					C: ADDITIONAL TOP BAR 1-25 ^o L=3.000	
RB15		600	-	2-25 ^o	1-25 ^o	-							B15	600		-	1-25 ^o	1-25 ^o	-						
RB16		700	-	2-25 ^o	2-25 ^o	-							B16	600		-	1-25 ^o	-	-					C: ADDITIONAL TOP BAR 1-25 ^o L=3.000	
RB17		600	-	2-25 ^o	1-25 ^o	-							B17	600		-	2-25 ^o	1-25 ^o	-						
RB18			-	-	-	-							B18	700		-	2-25 ^o	1-25 ^o	-					TOP BARS CONT. FROM RB17	
RB19			-	-	-	-							B19	600		-	2-25 ^o	1-25 ^o	-						
RB20			-	1-25 ^o	1-25 ^o	-							B20			-	-	-	-					TOP BARS CONT. FROM B19	
RB21			-	1-25 ^o	1-25 ^o	-							B21			-	1-25 ^o	-	-			@250		TOP BARS CONT. FROM B21	
RB22			-	1-25 ^o	-	-							B22			-	2-25 ^o	2-25 ^o	-			15 @ 150 (EAST END) BALANCE @200			
RB23			-	1-25 ^o	-	-							B23			-	2-25 ^o	1-25 ^o	-			@250			
RB24			-	1-25 ^o	-	-							B24			-	1-25 ^o	1-25 ^o	-			15 @ 150 (WEST END) BALANCE @200			
RB25			-	1-25 ^o	1-25 ^o	-							B25			-	1-25 ^o	-	-			@250		C: ADDITIONAL TOP BAR 1-25 ^o L=3.000	
RB26			-	-	-	-							B26			-	2-25 ^o	1-25 ^o	-			@200		TOP BARS CONT. FROM RB25	
RB27			-	-	-	-							B27			-	2-25 ^o	1-25 ^o	-			@250			
RB28			-	3-25 ^o	2-25 ^o	-		@250					B28			-	1-25 ^o	2-25 ^o	-			@200		TOP BARS CONT. FROM B26	
RB29			-	3-25 ^o	3-25 ^o	2-25 ^o		@200					B29			-	-	-	-			@250		TOP BARS CONT. FROM B28	
RB30			-	1-25 ^o	2-25 ^o	1-25 ^o		@250					B30		600	1-25 ^o	3-25 ^o	1-25 ^o	-			15 @ 150 (EAST END) BALANCE @200			
RB31		600	-	1-25 ^o	1-25 ^o	-							B31		700	-	3-25 ^o	1-25 ^o	-			@200		TOP BARS CONT. FROM B29 OR B30	
RB32		700	-	1-25 ^o	1-25 ^o	-							B32	350	600	-	1-25 ^o	1-25 ^o	-			15 @ 150 (WEST END) BALANCE @200			
RB33		300	-	-	-	-							B33			-	-	-	-			@250			
RB34		300	-	-	-	-							B34			-	-	-	-						
RB35		300	-	-	-	-							B35			-	1-25 ^o	-	-						
RB36		300	-	-	2-25 ^o	-							B36			-	1-25 ^o	1-25 ^o	-						
RB37		450	-	-	2-25 ^o	-							B37			-	-	1-25 ^o	-						
RB38		300	-	-	-	-							B38	300	600	-	-	-	-						
RB39		250	-	-	2-25 ^o	-							B39	250	450	-	-	2-25 ^o	-			10 ^o	□	@250	
RG1	350	600	-	2-25 ^o	2-25 ^o	2-25 ^o		10 ^o	□	@200						-	-	-	-						
RG2			-	-	-	-										-	-	-	-						
RG3			-	-	-	-										-	-	-	-						
RG4			-	2-25 ^o	-	-										-	-	-	-						
RG5			-	2-25 ^o	1-25 ^o	-							2B40	350	600	-	1-25 ^o	2-25 ^o	1-25 ^o				10 ^o	□	15 @ 150 (WEST END) BALANCE @200
RG6			-	2-25 ^o	1-25 ^o	-							2B41			-	1-25 ^o	2-25 ^o	-					@250	
RG7			-	-	2-25 ^o	-							2B42	350	600	-	3-25 ^o	2-25 ^o	1-25 ^o				10 ^o	□	15 @ 150 (EAST END) BALANCE @200
RG8			-	2-25 ^o	2-25 ^o	-										-	-	-	-						
RG9	350	600	-	-	2-25 ^o	-										-	-	-	-						

NOTE:

- FOR DETAILS RELATING TO BEAM & GIRDER SCHED. SEE COMMON DETAILS.
- FOR 2 ADDITIONAL TOP BARS NOT SHOW ON BEAM & GIRDER SCHED. SEE COMMON DETAILS CDS-05.
- FOR ASTERISK (*) AND ALPHABET (a) SEE COMMON DETAILS CDS-05.

REVISIONS:



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TITLE: BUILDING-H
BEAM AND GIRDER
SCHEDULE

SCALE:	DWG. NO.	
JOB NO.	HS-06	
REF. NO.		
DATE	DRAWN	CHECKED
31. JAN. 79	(Signature)	(Signature)

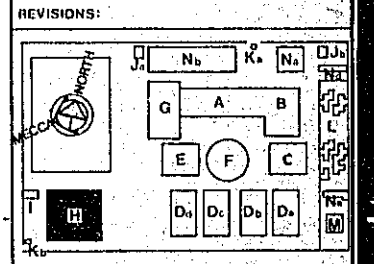
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BEAM AND GIRDER SCHEDULE

BEAM MARK	SIZE		REINFORCEMENT				STIRRUPS			ARRANGEMENT		REMARKS	
	W	D	TOP BARS		BOTTOM BARS		SIZE	TYPE	SPACING		SOUTH OR WEST		NORTH OR EAST
			SOUTH OR WEST	NORTH OR EAST	LONG	SHORT			EA. END	U.O.N.			
G1	350	600	-	2-25 ^ø	2-25 ^ø	2-25 ^ø	10 ^ø	□	15 ^ø 150 (NORTH END) BALANCE @200				
G2									ø250				
G3									ø250				
G4				2-25 ^ø					ø250				
G5				3-25 ^ø		2-25 ^ø			ø200				
G6				3-25 ^ø		2-25 ^ø			ø200				
G7					2-25 ^ø	2-25 ^ø			15 ^ø 150 (SOUTH END) BALANCE @200				
G8			1-25 ^ø	3-25 ^ø	3-25 ^ø	2-25 ^ø			20 ^ø 100 (NORTH END) BALANCE @150				
G9					2-25 ^ø				ø250				
G10									ø250				
G11				2-25 ^ø					ø250				
G12				3-25 ^ø		2-25 ^ø			ø200				
G13				3-25 ^ø	2-25 ^ø	2-25 ^ø			ø200				
G14	350	600	-	1-25 ^ø	3-25 ^ø	2-25 ^ø	10 ^ø	□	15 ^ø 100 (SOUTH END) BALANCE @150				
B1	250	450			2-20 ^ø		10 ^ø	□	ø250				

- NOTE:
1. FOR DETAILS RELATING TO BEAM/GIRDER SCHED. SEE COMMON DETAILS.
 2. FOR 2 ADDITIONAL TOP BARS NOT SHOW ON BEAM/GIRDER SCHED. SEE COMMON DETAILS CDS-05.
 3. FOR ASTERISK (***) AND ALPHABET (a) SEE COMMON DETAILS CDS-05.



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TITLE: BUILDING -H
BEAM AND GIRDER
SCHEDULE

SCALE: _____ DWG. NO. HS-07

JOB NO. _____

REF. NO. _____

DATE: 31. JAN. 79

DRAWN	CHECKED	CHECKED
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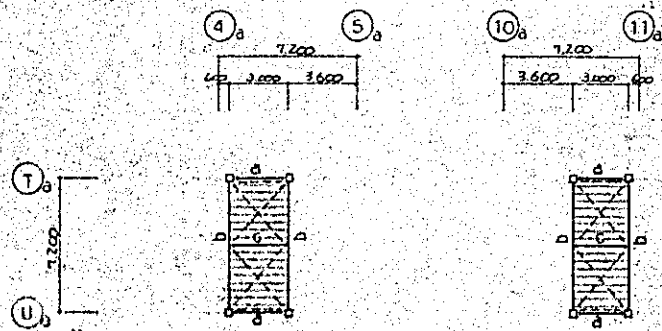
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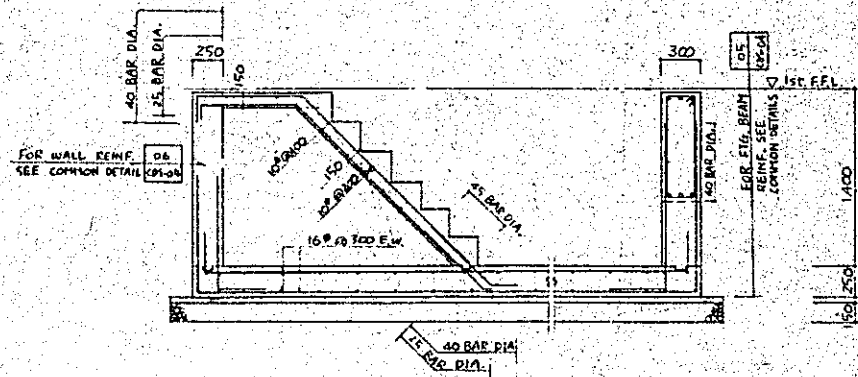
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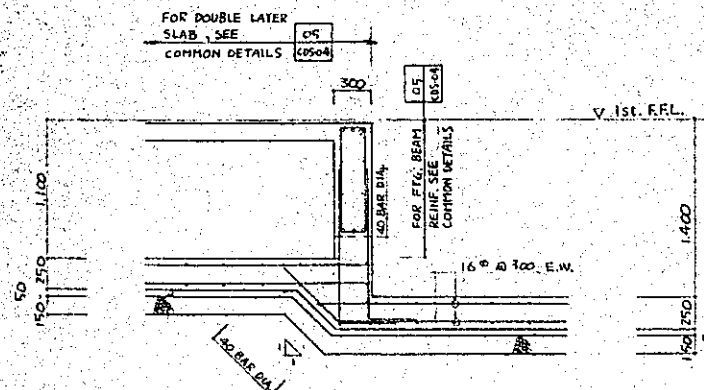
FOR STEEL DETAILS
SEE COMMON DETAILS, CDS-11

01 SHELTER FRAMING PLAN
HS08 1/200

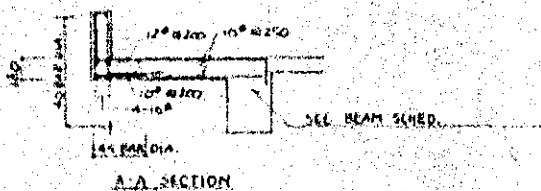
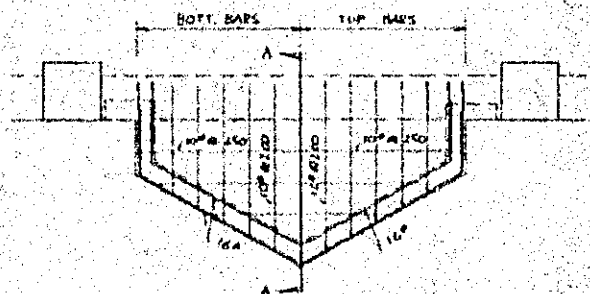


02 SECTIONAL
DETAIL
HS08 1/30

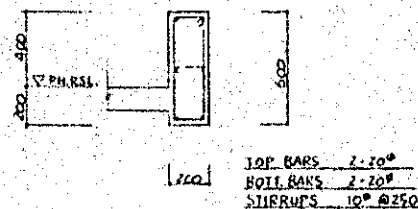
03 SECTIONAL
DETAIL
HS08 1/30



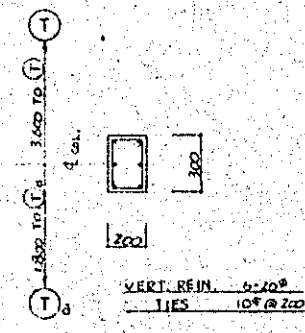
04 SECTIONAL
DETAIL
HS08 1/30



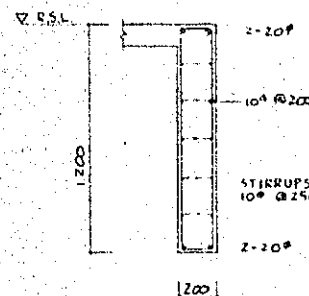
05 SECTIONAL
DETAIL
HS08 1/30



06 SECTIONAL
DETAIL
HS08 1/20



07 SECTIONAL
DETAIL
HS08 1/20



08 SECTIONAL
DETAIL
HS08 1/20

NOTE:

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TITLE: BUILDING - H
SECTIONAL DETAILS

SCALE: 1/20, 1/30, 1/200	DWG. NO. HS-08
JOB NO.	
REF. NO.	
DATE: 31. JAN. 79	DRAWN: [Signature] CHECKED: [Signature]

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في الرياض

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وزارة المعارف

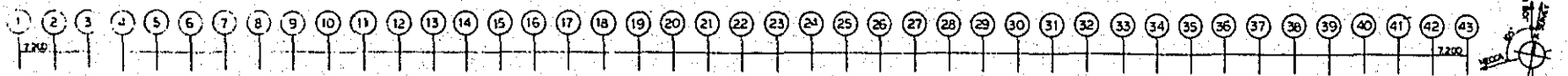


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THE KINGDOM OF SAUDI ARABIA
MINISTRY OF EDUCATION

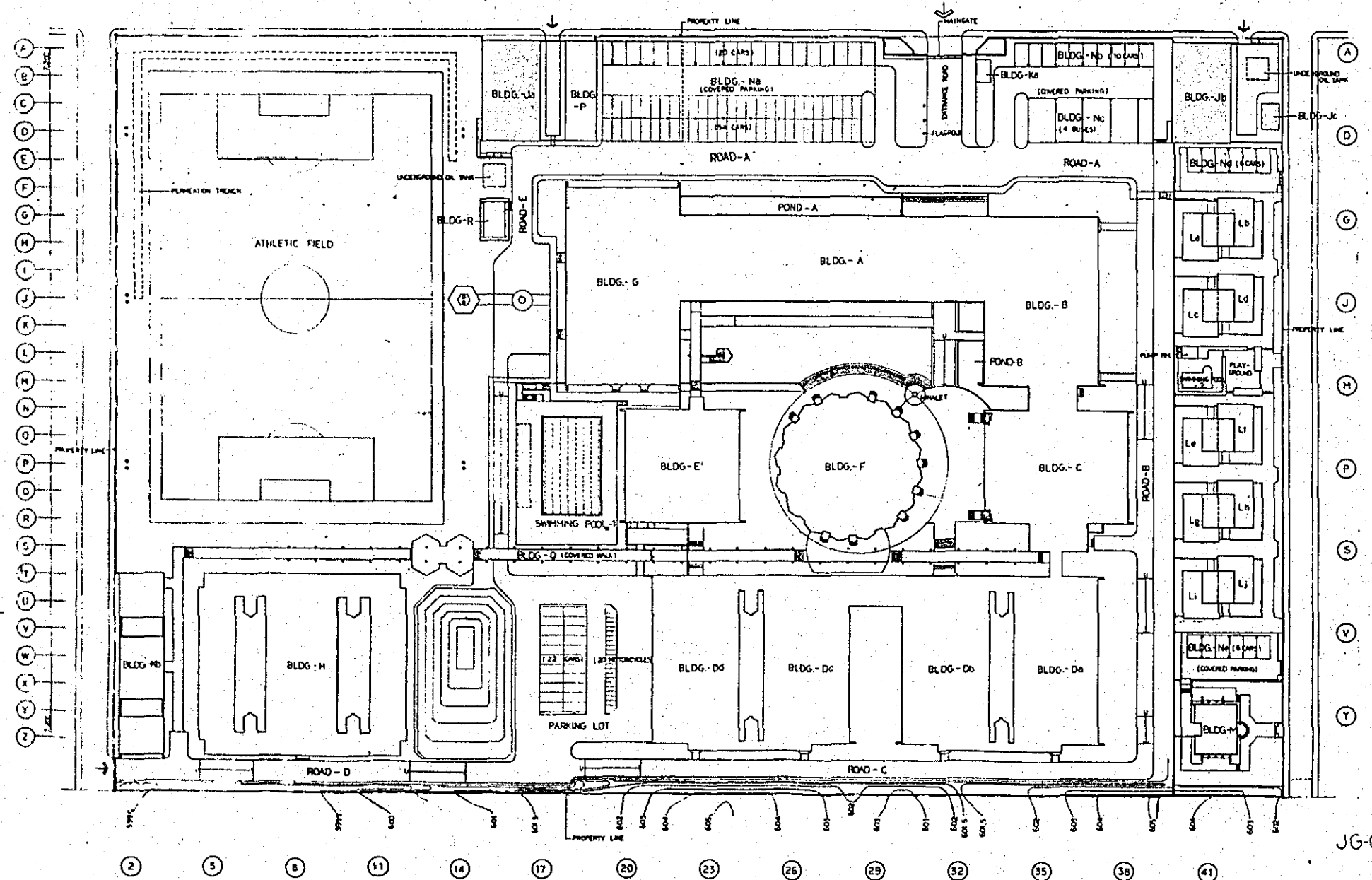
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- CAFETERIA / LIBRARY
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- DORMITORY
- GENERATOR
- GUARD / SERVANT
- TEACHERS' RESIDENCES
- DIRECTOR'S VILLA
- COVERED PARKING
- TREATMENT PLANT
- COVERED WALK
- GAS STORAGE

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INDEX OF DRAWING VOLUMES
TECHNICAL ELECTRONICS INSTITUTE IN RIYADH

VOLUME 1 ARCHITECTURAL	VOLUME 2 STRUCTURAL	VOLUME 3 MECHANICAL	VOLUME 4 ELECTRICAL
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GENERAL INFORMATION

THE DRAWINGS ARE DIVIDED INTO FOUR VOLUMES FOR EASE OF HANDLING. IN ORDER TO SATISFY THE REQUIREMENT FOR FLEXIBILITY IN TERMS OF ISOLATING INDIVIDUAL BUILDINGS, THE DRAWINGS IN VOLUME I, II, III AND IV ARE ORGANIZED INTO BUILDING SETS.

EACH SET HAS ITS OWN COVER SHEET, INDEX AND INTERNAL NUMBERING SYSTEM, AND INCLUDES ALL DISCIPLINES' DRAWINGS FOR THAT BUILDING. EACH SET CAN BE COMPLETED BY COMBINING WITH THE COMMON DETAIL SET. FOR CONVENIENCE WHEN BOUND INTO VOLUMES.

GRID DIMENSIONING SYSTEM

THE METRIC SYSTEM HAS BEEN USED THROUGHOUT THE DOCUMENTS. THE LARGE MODULAR GRID REPRESENTS THE 7.2 STRUCTURAL GRID. THE ENTIRE SITE IS KEYED TO THIS GRID BY ALPHABET AND NUMBER. THE SMALLER MODULE IS THE 0.9 PLANNING GRID. TYPICALLY, ALL PARTITIONS ARE CENTERED ON THIS GRID. ELEMENTS NOT INDICATED AS BEING CENTERED ON EITHER GRID ARE DIMENSIONED TO THE CLOSEST GRID LINE. IF NO DIMENSION APPEARS, THE ELEMENT IS TO BE CENTERED ON THE GRID LINE.

PARTITION SCHEDULE

A PARTITION SCHEDULE IS LOCATED ON EACH FLOOR PLAN SHEET. PARTITION TYPES ARE IDENTIFIED ON THE PLANS BY USE OF A SYMBOL ADJACENT TO EACH PARTITION OR BY A NOTE IN THE SCHEDULE IDENTIFYING GROUPS OF PARTITIONS. THE PARTITION TYPES ARE LOCATED IN THE ARCHITECTURAL COMMON DETAIL SET.

INTERIOR COLUMN AND EXTERIOR WALL IS CONSIDERED A PARTITION TYPE AND IS ACCOMMODATED IN THE PARTITION NOTES AND SCHEDULE.

DOOR SCHEDULE

THE DOOR SCHEDULE IS TYPICALLY INDICATED ON EACH DOOR ON EACH FLOOR PLAN SHEET WITHIN EACH BUILDING SET. THE DOOR TYPES ARE LOCATED IN THE ARCHITECTURAL COMMON DETAIL SET. WHEN DOORS ARE CALLED IN NOTES, DOORS ARE TO BE IDENTIFIED BY THE NAMES AND NUMBERS OF THE ROOMS SERVED. FOR ROOMS CONTAINING MORE THAN ONE DOOR, SUFFIXAL LETTERS ARE USED (a, b, c, ETC.). HARDWARE FOR EACH DOOR IS DESCRIBED IN THE HARDWARE TYPES BOUND IN THE SPECIFICATIONS. THE HARDWARE GROUPS ARE INDICATED ON EACH DOOR ON EACH FLOOR PLAN WITHIN EACH BUILDING SET. DOOR FRAME PROFILES ARE ALSO DRAWN IN THE ARCHITECTURAL COMMON DETAIL SET AND REFERENCED ON THE PLAN SHEETS AND DOOR SCHEDULE.

FINISH SCHEDULE

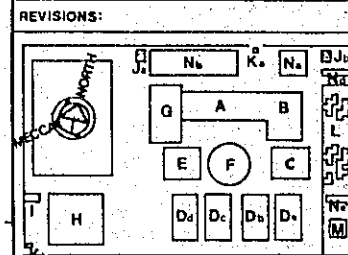
THE FINISH SCHEDULE IS TYPICALLY LOCATED ON EACH FLOOR PLAN SHEET OF EACH BUILDING SET, AND DESCRIBES THE FINISH FOR EACH SPACE ON EACH PLAN. THE MATERIAL LEGEND IS LOCATED IN THE ARCHITECTURAL COMMON DETAIL SET. NOTE THAT THE FINISH SCHEDULE INDICATES FINISH SURFACE ONLY, NOT THE SUBSTRATE TO WHICH IT IS APPLIED. FOR SUBSTRATE MATERIAL SEE THE PARTITION SCHEDULE.

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COMMUNICATION SYSTEM			
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JA, JB, JC 1st FLOOR PLAN	1/100	JE-06	

NOTE:

REVISIONS:



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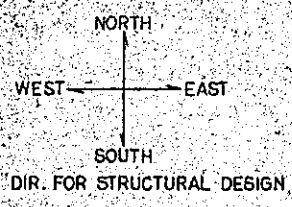
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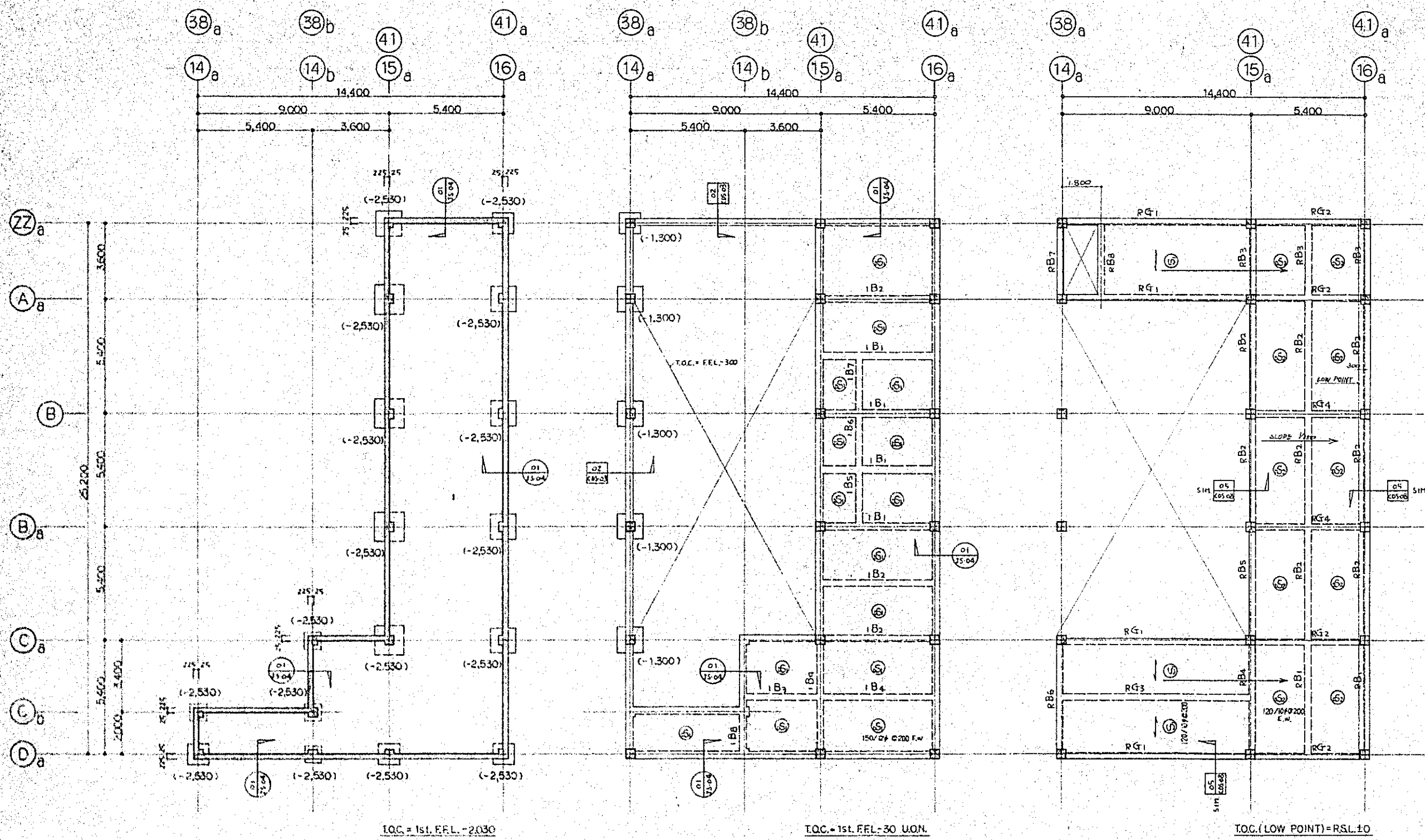
TITLE:
GENERAL NOTES

SCALE: NS	DWG NO. JG 02
JOB NO.	
REF. NO.	
DATE: 31 JAN 79	DRAWN: [Signature] CHECKED: [Signature]

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- NOTE:
- (---) DENOTES BOTTOM OF FTG. EL. FROM 1st. FFL.
 - INDICATES DIR. OF MAIN REINFORCEMENT IN SLAB.



01 FOUNDATION PLAN
JS-01

02 1st. FLOOR FRAMING PLAN
JS-01

03 ROOF FLOOR FRAMING PLAN
JS-01

REVISIONS:

NO.	DATE	DESCRIPTION

MAY 1974 M.O.E. MEETING

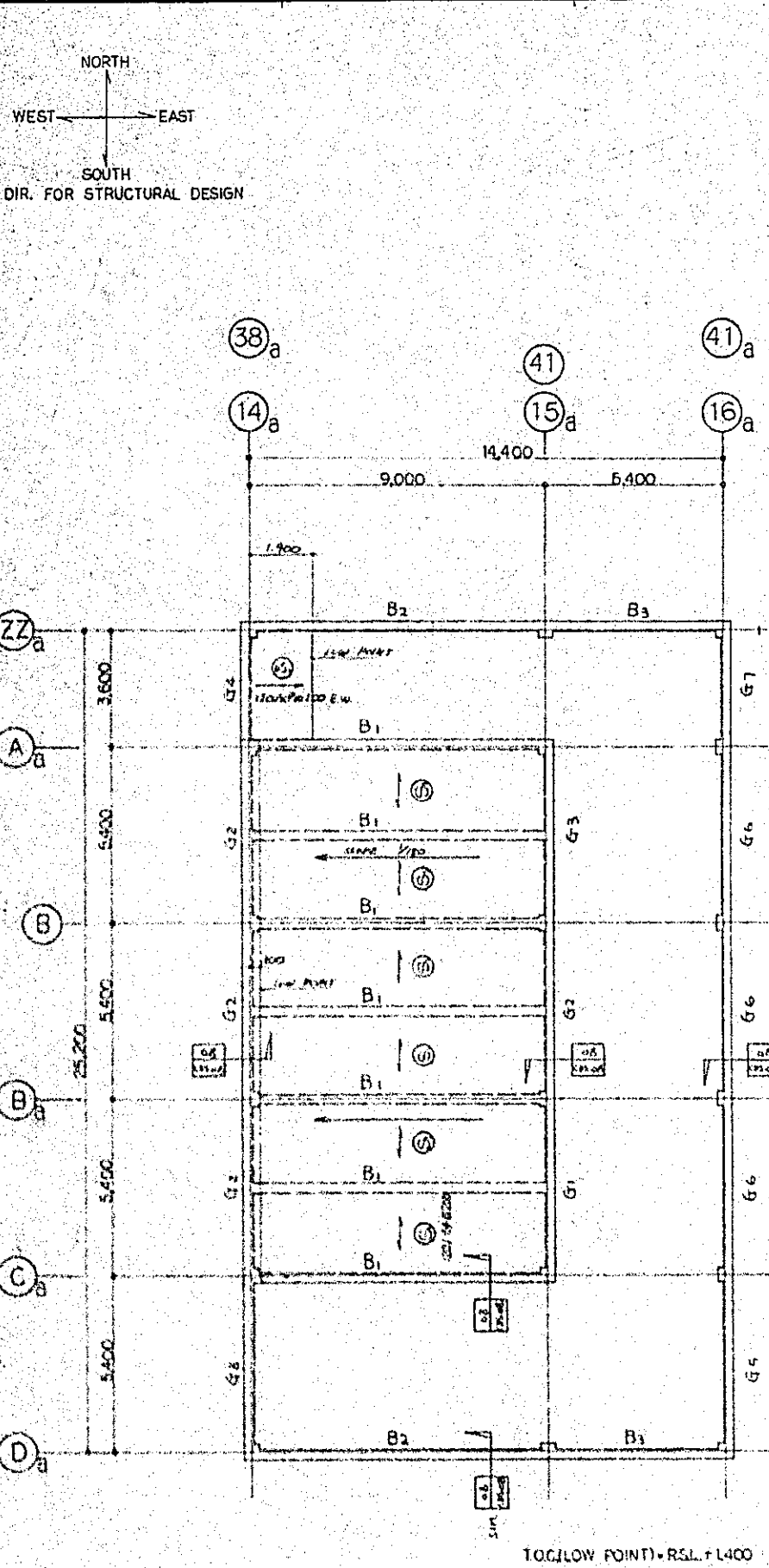
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TITLE: BUILDING-J
FOUNDATION PLAN AND
FLOOR FRAMING PLAN

SCALE: 1/100	DWG. NO. JS-01
JOB NO.	
REF. NO.	
DATE: 31, JAN, 79	CHECKED: [Signature]

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في الرياض



T.O.C. (LOW POINT) = R.S.L. + L400

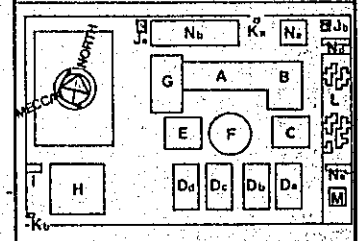
COLUMN SCHEDULE

LEVEL	COLUMN # FOOTING	ZZ a		Aa		B		Ba		Ca		Cb		Da									
		14a, 38a	15a, 41	16a, 41a	14a, 38a	15a, 41	16a, 41a	14a, 38a	15a, 41	16a, 41a	14a, 38a	14b, 38b	14a, 38a	14b, 38b	15a, 41	16a, 41a							
R.S.L.																							
3,600	COL. SIZE	A/B 450/450																					
	VERT. REINF.	4-25 ^o																					
	TIES	10 ^o 250																					
	TYPE	A																					
2,030	1st. FFL																						
	COL. SIZE	A/B 450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450	450/450								
	VERT. REINF.	4-25 ^o	4-25 ^o	4-25 ^o	4-25 ^o	4-25 ^o	4-25 ^o	4-25 ^o	4-25 ^o	4-25 ^o	4-25 ^o	4-25 ^o	4-25 ^o	4-25 ^o	4-25 ^o								
	TIES	10 ^o 250	10 ^o 250	10 ^o 250	10 ^o 250	10 ^o 250	10 ^o 250	10 ^o 250	10 ^o 250	10 ^o 250	10 ^o 250	10 ^o 250	10 ^o 250	10 ^o 250	10 ^o 250								
T.O.C. OF SLAB																							
BOTTOM OF COL.																							
DOWELS		4-25 ^o																					
COLUMN # FOOTING	SIZE	A	1,000	1,200	1,000	1,200	1,400	1,200	1,400	1,200	1,200	1,400	1,200	1,200	800	1,400	1,200	800	800	1,000	800	1,200	1,000
		B	1,000	1,200	1,000	1,200	1,400	1,200	1,400	1,200	1,200	1,400	1,200	1,200	800	1,400	1,200	800	800	1,000	800	1,200	1,000
REINF.	I	400	400	400	400	500	400	500	400	400	500	400	400	400	400	500	400	400	400	400	400	400	400
		6-16 ^o E.W.	7-16 ^o E.W.	6-16 ^o E.W.	7-16 ^o E.W.	8-16 ^o E.W.	7-16 ^o E.W.	7-16 ^o E.W.	8-16 ^o E.W.	7-16 ^o E.W.	7-16 ^o E.W.	8-16 ^o E.W.	7-16 ^o E.W.	7-16 ^o E.W.	4-16 ^o E.W.	8-16 ^o E.W.	7-16 ^o E.W.	4-16 ^o E.W.	4-16 ^o E.W.	6-16 ^o E.W.	4-16 ^o E.W.	7-16 ^o E.W.	6-16 ^o E.W.

NOTE:
CLEAR STORY ROOF FRAMING PLAN
1. I INDICATES DIR. OF MAIN REINFORCEMENT IN SLAB.

COLUMN SCHEDULE
1. FOR DETAILS RELATING TO COL. SCHED. SEE COMMON DETAILS.

4 JUN 79	MAY 1979 MOE MEETING
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TITLE: BUILDING-J
CLEAR STORY FRAMING PLAN AND COLUMN SCHEDULE

SCALE: 1/100	DWG. NO. JS-02
JOB NO.	
REF. NO.	
DATE: 31 JAN 79	DRAWN: [Signature]
	CHECKED: [Signature]

01 CLEAR STORY ROOF FRAMING PLAN
JS02

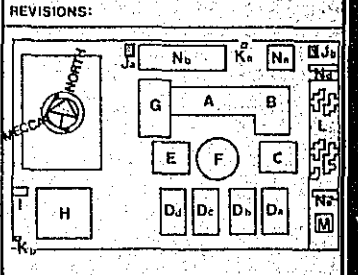
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BEAM AND GIRDER SCHEDULE

BEAM MARK	SIZE		REINFORCEMENT				STIRRUPS			ARRANGEMENT		REMARKS	
	W	D	TOP BARS		BOTTOM BARS		SIZE	TYPE	SPACING		SOUTH WEST		NORTH EAST
			SOUTH OR WEST	NORTH OR EAST	LONG	SHORT			EA	END U.O.N.			
B1	300	600	1-25 ^φ	1-25 ^φ	2-25 ^φ	1-25 ^φ	10 ^φ	□	φ250				
B2	300	600	-	-	2-25 ^φ	1-25 ^φ	10 ^φ	□	φ250	1			
B3	300	600	-	-	2-25 ^φ	-	10 ^φ	□	φ250				
B4													
B5													
B6													
B7													
B8													
B9													
B10													
B11													
B12													
B13													
B14													
B15													
B16													
B17													
B18													
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B94													
B95													
B96													
B97													
B98													
B99													
B100													

- NOTE:
- FOR DETAILS RELATING TO BEAM/GIRDER SCHED. SEE COMMON DETAILS.
 - FOR -2 ADDITIONAL TOP BARS NOT SHOW ON BEAM/GIRDER SCHED. SEE COMMON DETAILS CDS-05.
 - FOR ASTERISK (*,**) AND ALPHABET (a,b) SEE COMMON DETAILS CDS06.



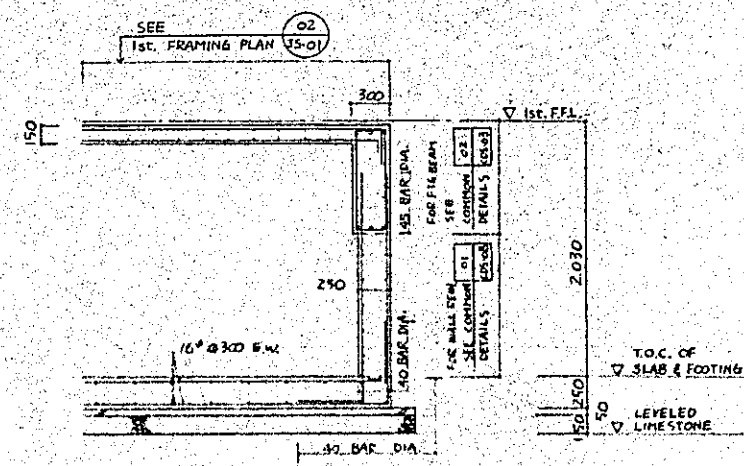
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TITLE: BUILDING-J
BEAM AND GIRDER
SCHEDULE

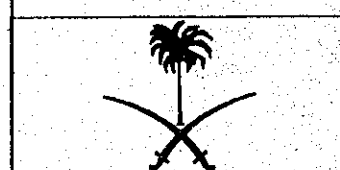
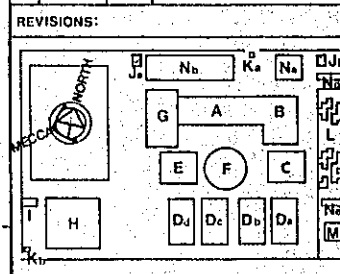
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REF. NO.					
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DESIGNED	CHECKED				
31 JAN 79					

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01 SECTIONAL DETAIL
 JS-04 1/30

NOTE

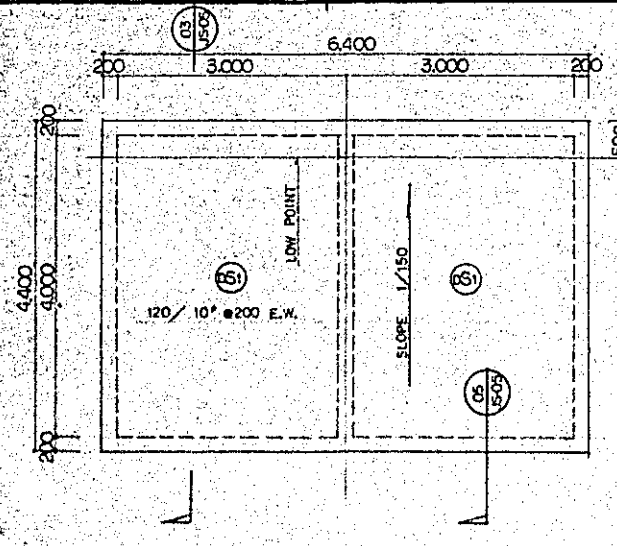


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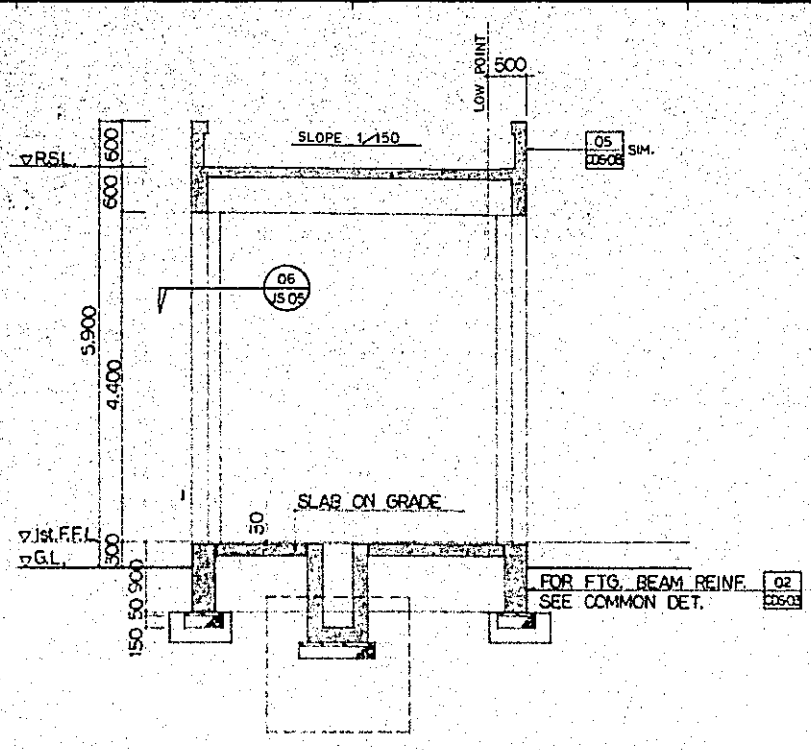
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TITLE: BUILDING - J
 SECTIONAL DETAILS

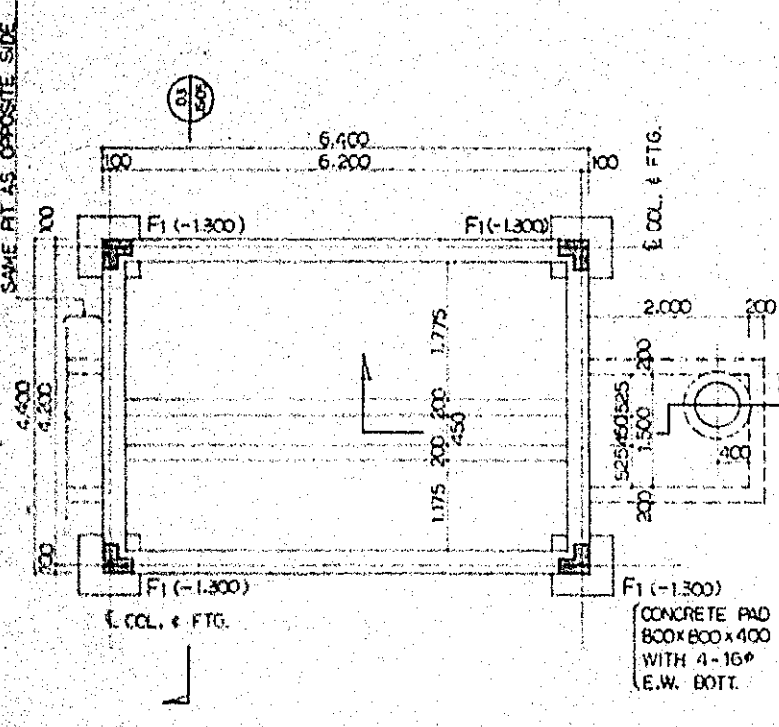
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JOB NO.	JS-04
REF. NO.	
DATE 31 JAN 79	DRAWN (Signature)
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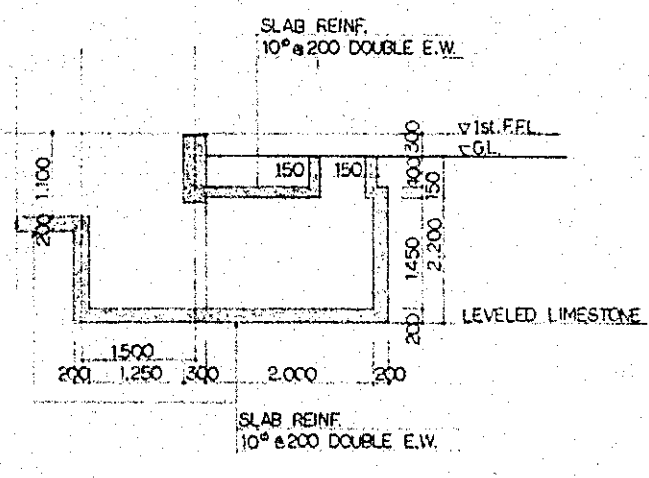
01 ROOF FRAMING PLAN
JS05
1/50



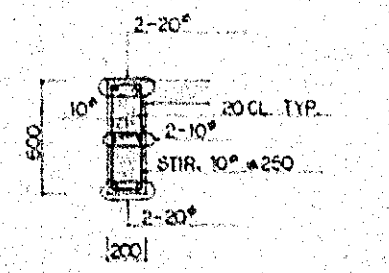
03 SECTION
JS05
1/50



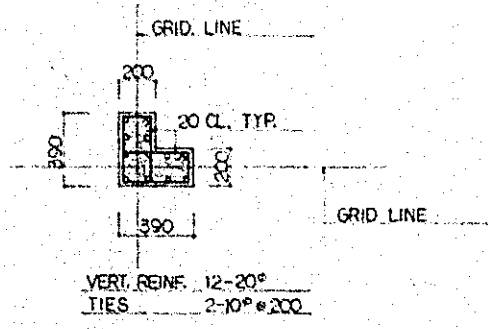
02 FOUNDATION PLAN
JS05
1/50



04 SECTION
JS05
1/50



05 SECTIONAL DETAIL
JS05
1/30
BEAM SCHED.

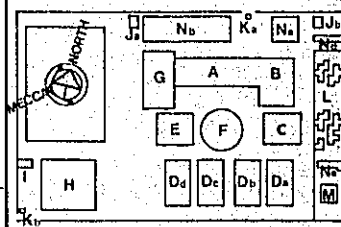


06 SECTIONAL DETAIL
JS05
1/20
COL. SCHED.

NOTE:
ROOF FRAMING PLAN
1. T.O.C. (LOW POINT) = R.S.L. ± 0.
FOUNDATION PLAN
1. --- DENOTES BOTTOM OF FTG. EL. FROM 1st. F.F.L.
2. T.O.C. = 1st. F.F.L. - 30
3. FOR WALL REINF. OF PIT. SEE 01/0505

14 JUN. 79 MAY 1979 M.E. MEETING

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TITLE: BUILDING-Jc
FRAMING PLAN AND
SECTIONAL DETAILS

SCALE: 1/50, 1/20 DWG. NO. JS-05

JOB NO. REF. NO.

DATE 31.MAR.79 DRAWN CHECKED

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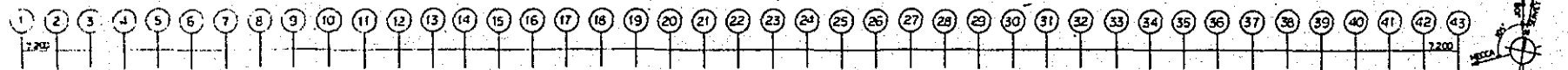


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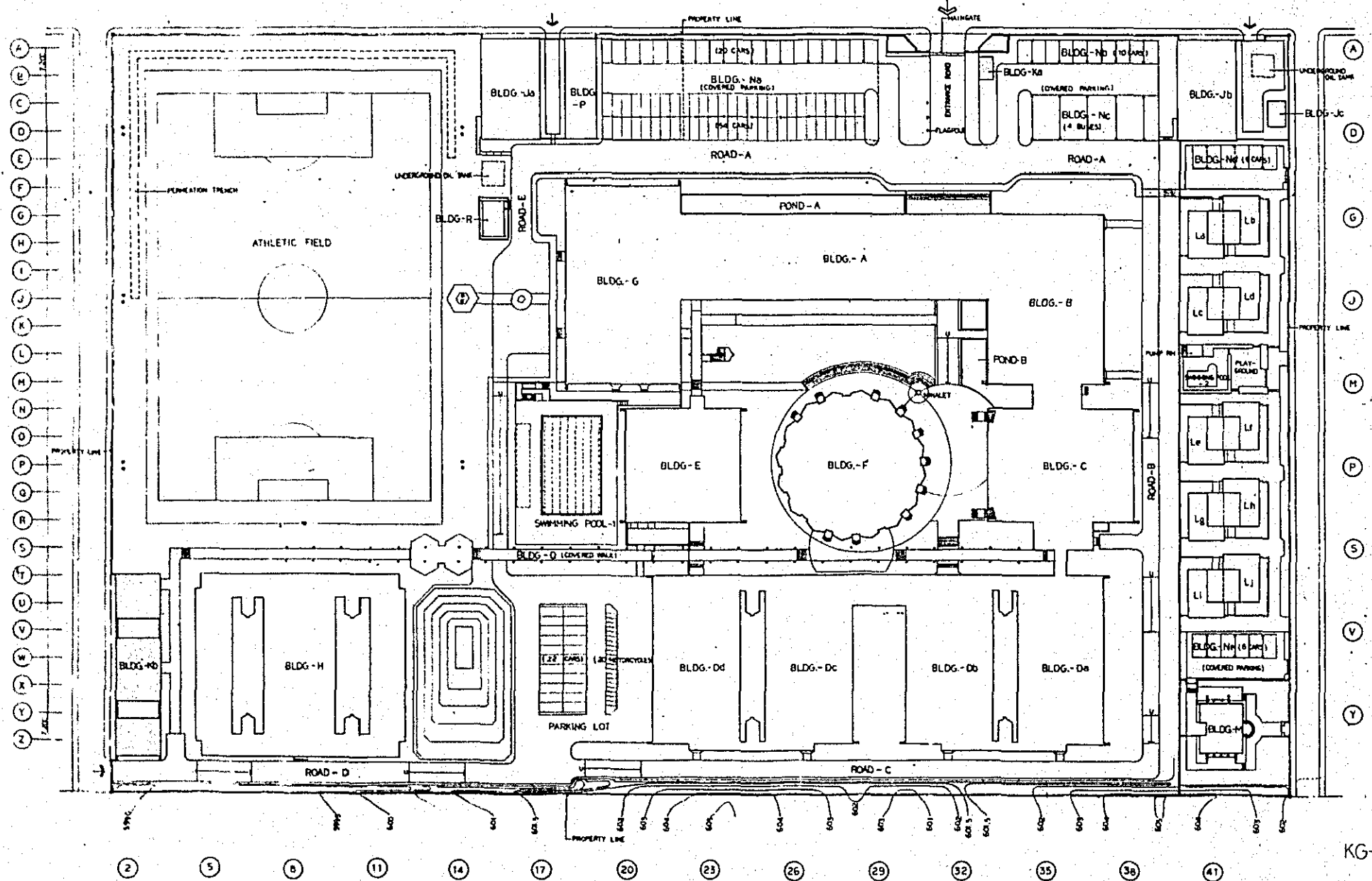
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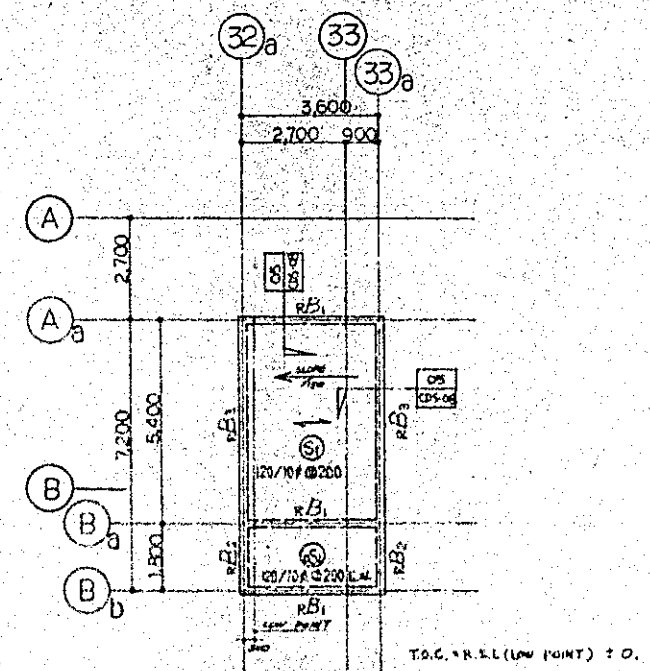
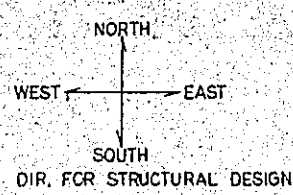
BUILDING-K GUARD / SERVANT

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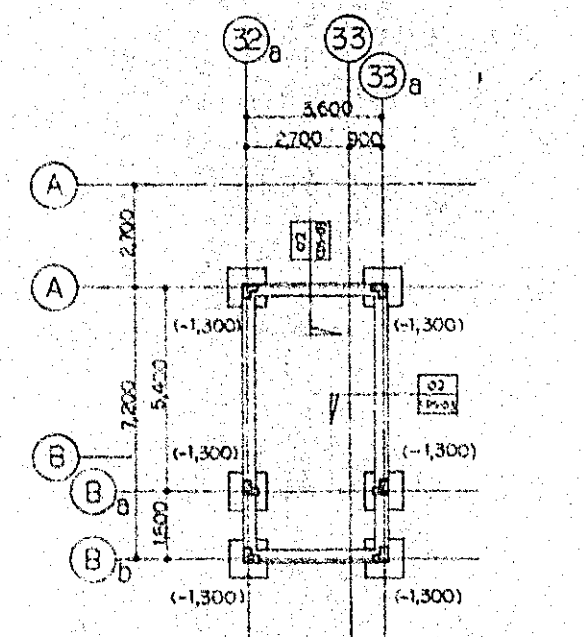


- A ADMINISTRATION
- B GENERAL EDUCATION
- C AUDITORIUM / COMPUTER
- D TECHNICAL EDUCATION
- E CAFETERIA / LIBRARY
- F MOSQUE
- G GYMNASIUM
- H DORMITORY
- J GENERATOR
- K GUARD / SERVANT
- L TEACHERS' RESIDENCES
- M DIRECTOR'S VILLA
- N COVERED PARKING
- P TREATMENT PLANT
- Q COVERED WALK
- R GAS STORAGE





02 ROOF FLOOR FRAMING PLAN
KS-01 1/100



01 FOUNDATION PLAN
KS-01 1/100

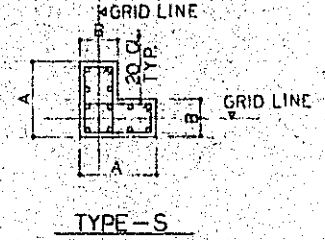
COLUMN SCHEDULE

LEVEL	COLUMN FOOTING	Aa		Ba		Bb	
		32a	33b	32a	33b	32a	33b
R.S.L.							
2.700	COL. SIZE	340 200				340 200	
	VERT. REINF.	12-20 ^Φ				12-20 ^Φ	
	TIES	10 ^Φ 200				10 ^Φ 200	
	TYPE	S				S	
1st. FFL							
BOTTOM OF COL.							
DOWELS		12-20 ^Φ				12-20 ^Φ	
COLUMN FOOTING	SIZE	A	1,000			1,000	
		B	1,000			1,000	
	REINF.	1	400			400	
			6-16 ^Φ E.W.			6-16 ^Φ E.W.	

BEAM SCHEDULE

BEAM MARK	SIZE		REINFORCEMENT				STIRRUPS			ARRANGEMENT		REMARKS
	W	D	TOP BARS SOUTH OR WEST	TOP BARS NORTH OR EAST	BOTTOM BARS LONG	BOTTOM BARS SHORT	SIZE	TYPE	SPACING EA END U.Q.N.	SOUTH OR WEST	NORTH OR EAST	
RB1	200	600	2-20 ^Φ	2-20 ^Φ	2-20 ^Φ	2-20 ^Φ	10 ^Φ	□	∅ 250			* *
RB2	200	600	2-20 ^Φ	2-20 ^Φ	2-20 ^Φ	2-20 ^Φ	10 ^Φ	□	∅ 250			* *
RB3	200	600	2-20 ^Φ	2-20 ^Φ	2-20 ^Φ	2-20 ^Φ	10 ^Φ	□	∅ 250			* *

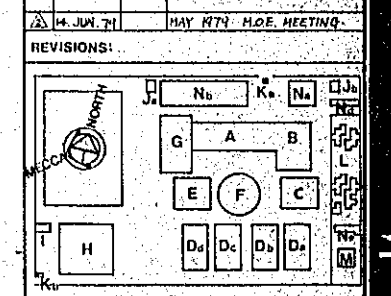
COLUMN TYPE



NOTE: FRAMING PLAN:
1. (---) DENOTES BOTTOM OF FTG. EL. FROM 1st. FFL.
2. } INDICATES DIR. OF MAIN REINFORCEMENT IN SLAB.

COLUMN SCHEDULE
1. FOR DETAILS RELATING TO COL. SCHED. SEE COMMON DETAILS.

BEAM AND GIRDER SCHED.
1. FOR DETAILS RELATING TO BEAM GIRDER SCHED. SEE COMMON DETAILS.
2. FOR 2 ADDITIONAL TOP BARS NOT SHOW ON BEAM GIRDER SCHED. SEE COMMON DETAILS CDS-05.
3. FOR ASTERISK (*, **) AND ALPHABET (A) SEE COMMON DETAILS CDS-05



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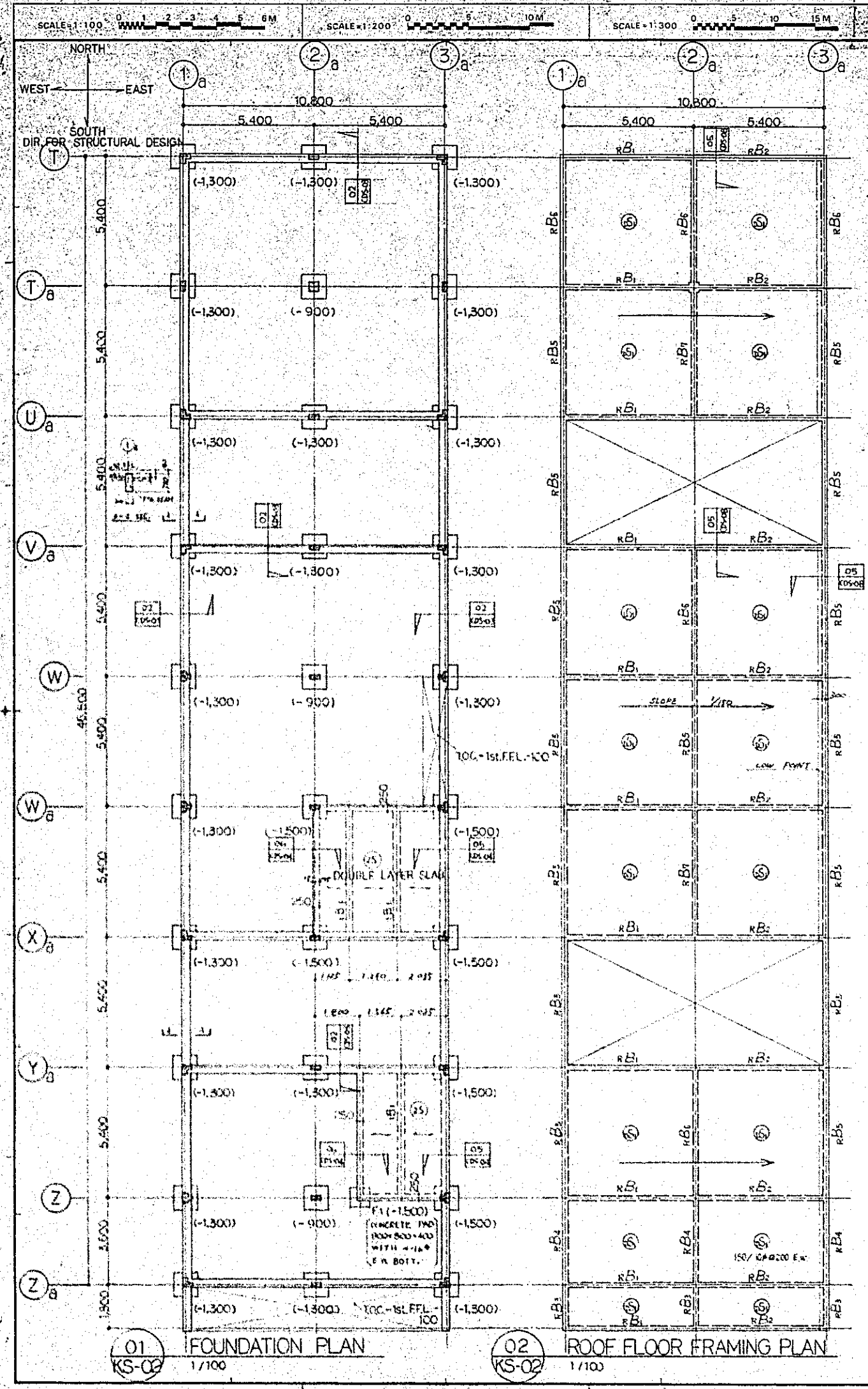
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TOKYO, JAPAN

TITLE: BUILDING - K (Ka)
FRAMING PLAN
AND SCHEDULE

SCALE: 1/100	DWG. NO. KS-01
JOB NO.	
REF. NO.	
DATE: 31. JAN. 79	DRAWN: [Signature] CHECKED: [Signature]

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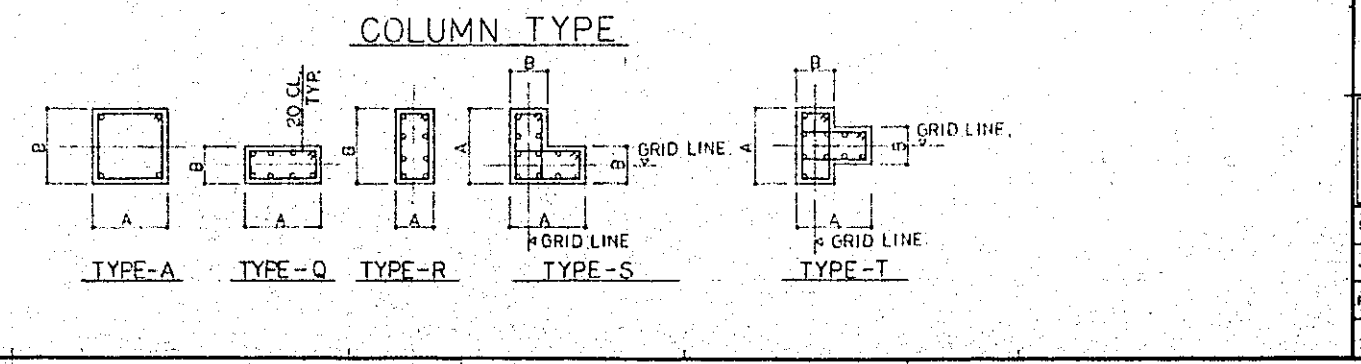


COLUMN SCHEDULE

LEVEL	COLUMN FOOTING	T			Ta			Ua			Va			W		
		1a	2a	3a	1a	2a	3a	1a	2a	3a	1a	2a	3a	1a	2a	3a
RSL																
3.000	COL. SIZE	A 340	340	340	200	400	200	340	340	340	340	340	340	340	340	340
	VERT. REINF.	12-20 ^Φ	8-20 ^Φ	12-20 ^Φ	8-20 ^Φ	4-20 ^Φ	8-20 ^Φ	12-20 ^Φ	8-20 ^Φ	12-20 ^Φ	12-20 ^Φ	8-20 ^Φ	12-20 ^Φ	12-20 ^Φ	8-20 ^Φ	12-20 ^Φ
	TIES	10 ^Φ 200														10 ^Φ 200
	TYPE	S	Q	S	R	A	R	S	Q	S	S	Q	S	T	Q	T
1st. FFL																
BOTTOM OF COL.																
DOWELS		12-20 ^Φ	8-20 ^Φ	12-25 ^Φ	8-20 ^Φ	4-20 ^Φ	8-20 ^Φ	12-20 ^Φ	8-20 ^Φ	12-20 ^Φ	12-20 ^Φ	8-20 ^Φ	12-20 ^Φ	12-20 ^Φ	8-20 ^Φ	12-20 ^Φ
COLUMN FOOTING	SIZE	A	1,000													
		B	1,000													
	T	400														
	REINF.	6-16 ^Φ E.W.														
LEVEL	COLUMN FOOTING	Wa			Xa			Y			Z			Za		
RSL		1a	2a	3a	1a	2a	3a	1a	2a	3a	1a	2a	3a	1a	2a	3a
3.000	COL. SIZE	A 340			340	340	340	340	340	340	340	340	340	340	340	340
	VERT. REINF.	12-20 ^Φ	8-20 ^Φ	12-20 ^Φ	12-20 ^Φ	8-20 ^Φ	12-20 ^Φ	12-20 ^Φ	8-20 ^Φ	12-20 ^Φ	12-20 ^Φ	8-20 ^Φ	12-20 ^Φ	12-20 ^Φ	8-20 ^Φ	12-20 ^Φ
	TIES	10 ^Φ 200														10 ^Φ 200
	TYPE	T	Q	T	S	Q	S	S	Q	S	T	Q	T	S	Q	S
1st. FFL																
BOTTOM OF COL.																
DOWELS		12-20 ^Φ	8-20 ^Φ	12-20 ^Φ	12-20 ^Φ	8-20 ^Φ	12-20 ^Φ	12-20 ^Φ	8-20 ^Φ	12-20 ^Φ	12-20 ^Φ	8-20 ^Φ	12-20 ^Φ	12-20 ^Φ	8-20 ^Φ	12-20 ^Φ
COLUMN FOOTING	SIZE	A	1,000													
		B	1,000													
	T	400														
	REINF.	6-16 ^Φ E.W.														

BEAM SCHEDULE

BEAM MARK	SIZE		REINFORCEMENT				STIRRUPS		ARRANGEMENT			REMARKS	
	W	D	TOP SOUTH OR WEST	TOP NORTH OR EAST	BOTTOM LONG	BOTTOM SHORT	SIZE	TYPE	SPACING EA.	END	U.O.N.		SOUTH OR WEST
RB1	200	600	2-20 ^Φ	2-20 ^Φ	2-20 ^Φ	2-20 ^Φ	10 ^Φ	□	∅250				
RB2				2-20 ^Φ		2-20 ^Φ							
RB3			2-20 ^Φ										
RB4				2-20 ^Φ		2-20 ^Φ							
RB5				2-20 ^Φ									
RB6				2-20 ^Φ									
RB7	200	600	2-20 ^Φ	2-20 ^Φ	2-20 ^Φ	2-20 ^Φ	10 ^Φ	□	∅250				
1B1	300	500			2-20 ^Φ	1-20 ^Φ	10 ^Φ	□	∅250				



NOTE:

FRAMING PLAN

- (---) DENOTES BOTTOM OF REINFORCEMENT IN SLAB.
- ROOF FRAMING PLAN TO C. (LOW POINT) = RSL ± 0
- FOUNDATION PLAN TO C. = 1st. FFL - 30 U.O.N.

COLUMN SCHEDULE

- FOR DETAILS RELATING TO COL. SCHED. SEE COMMON DETAILS.

BEAM AND GIRDER SCHED.

- FOR DETAILS RELATING TO BEAM/GIRDER SCHED. SEE COMMON DETAILS.
- FOR 2-ADDITIONAL TOP BARS NOT SHOW ON BEAM/GIRDER SCHED. SEE COMMON DETAILS CDS-05
- FOR ASTERISK (*,**) AND ALPHABET (a) SEE COMMON DETAILS CDS-05

14 JUN 79 MAY 1979 M.O.E. MEETING

REVISIONS:

KINGDOM OF SAUDI ARABIA
 MINISTRY OF EDUCATION

TECHNICAL ELECTRONICS INSTITUTE IN RIYADH

AZUSA SEKKEI CO. LTD.
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TITLE: BUILDING - K (Kb)
FRAMING PLAN AND SCHEDULE

SCALE: 1/100 DWG. NO: KS-02
 JOB NO.:
 REF. NO.:
 DATE: 31. JAN. 79 DRAWN: CHECKED:

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المملكة العربية السعودية
وزارة المعارف

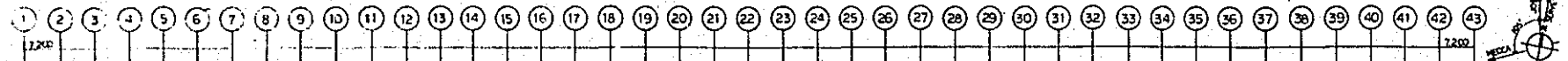


TECHNICAL ELECTRONICS INSTITUTE IN RIYADH المعهد الفني للإلكترونيات في الرياض

THE KINGDOM OF SAUDI ARABIA
MINISTRY OF EDUCATION

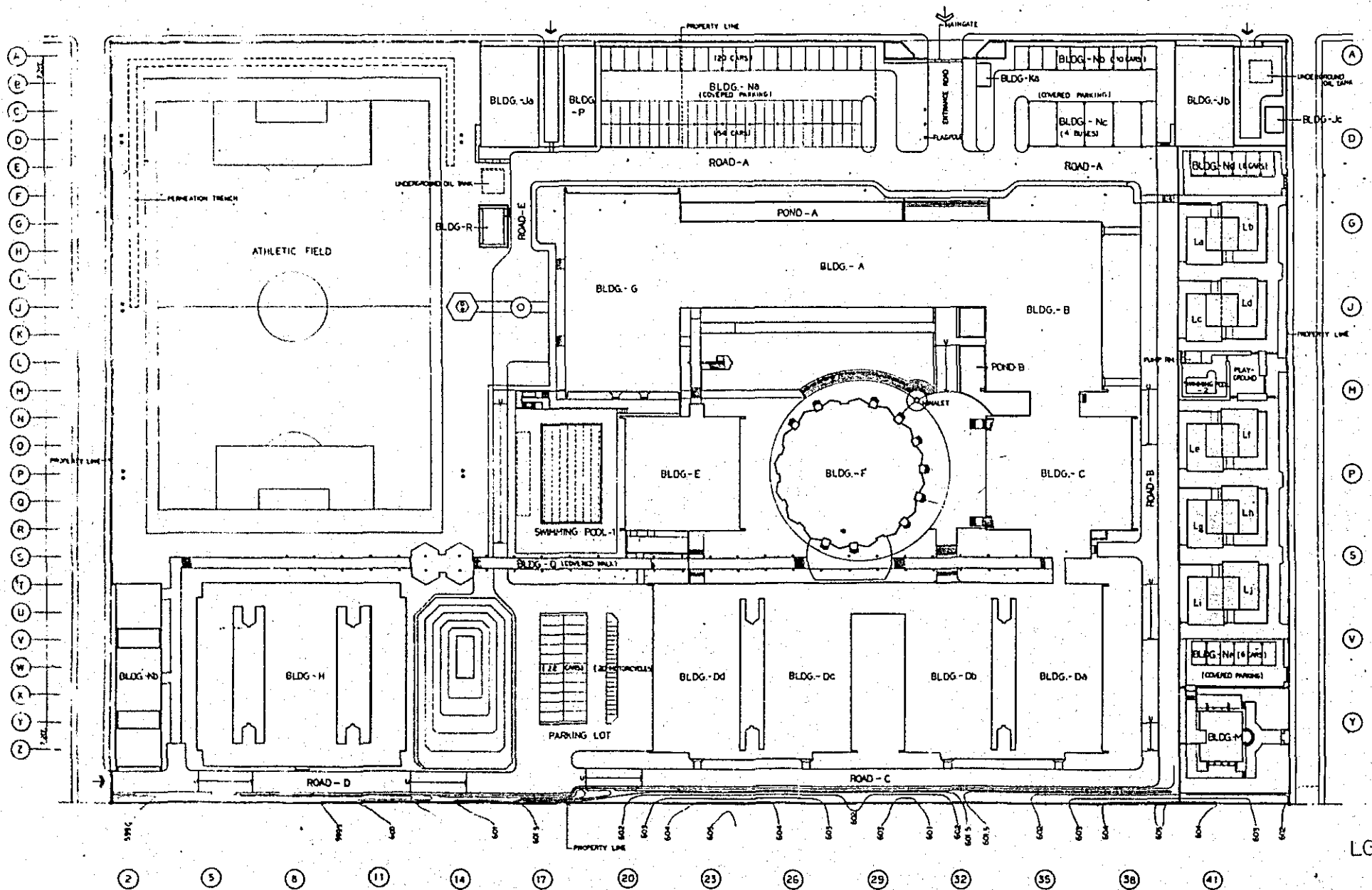
VOLUME 2 BUILDING-L TEACHERS' RESIDENCES

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- GENERAL EDUCATION
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- TECHNICAL EDUCATION
- CAFETERIA / LIBRARY
- MOSQUE
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- DORMITORY
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- TEACHERS' RESIDENCES
- DIRECTOR'S VILLA
- COVERED PARKING
- TREATMENT PLANT
- COVERED WALK
- GAS STORAGE

- A
- B
- C
- D
- E
- F
- G
- H
- J
- K
- L
- M
- N
- P
- Q
- R



SCALE=1:100 0 1 2 3 4 5 6M

SCALE=1:200 0 5 10M

SCALE=1:300 0 5 10 15M

SCALE=1:400 0 5 10 20M

SCALE=1:500 0 5 10 20M

SCALE=1:600 0 5 10 20 30M

INDEX OF DRAWING VOLUMES

TECHNICAL ELECTRONICS INSTITUTE IN RIYADH

VOLUME 1	VOLUME 2	VOLUME 3	VOLUME 4
ARCHITECTURAL	STRUCTURAL	MECHANICAL	ELECTRICAL

INDEX OF DRAWINGS FOR BUILDING-L, TEACHER'S RESIDENCE

GENERAL				
COVER SHEET	LG-01	DISTRIBUTION PANEL LIST NO.1	NON	LE-04
GENERAL NOTES	LG-02	COMMUNICATION SYSTEM		
		1st 2nd FLOOR	1 / 50	LE-05
		3rd ROOF FLOOR	1 / 50	LE-06
ARCHITECTURAL (VOLUME 1)		FURNISHING (VOLUME 1)		
PLANS - 1	1 / 50	1st, 2nd FLOOR PLAN		
PLANS - 2	1 / 50	FURNISHING	1 / 100	LF-01
ELEVATIONS & SECTIONS				
INTERIOR ELEVATIONS	1 / 50			
INTERIOR ELEVATIONS & SECTIONS	1 / 50			
DETAILS - MISCELLANEOUS				
STAIRS SECTIONS	1 / 20			
REFLECTED CEILING PLAN	1 / 50			
STRUCTURAL (VOLUME 2)				
FOUNDATION PLAN AND				
2ND FLOOR FRAMING PLAN	1 / 50			LS-01
3RD FLOOR AND ROOF FRAMING PLAN	1 / 50			LS-02
COLUMN AND BEAM SCHEDULE, AND SECTIONAL DETAILS	1 / 20			LS-03
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ELECTRICAL (VOLUME 4)				
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LIGHTING & SOCKET OUTLET 1st, 2nd FLOOR PLAN	1 / 50			LE-02
3rd ROOF FLOOR PLAN	1 / 50			LE-03

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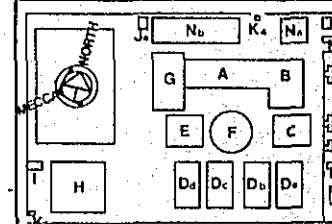
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NOTE

31 MAR 79	31 MAR 79	31 MAR 79	31 MAR 79
31 MAR 79	31 MAR 79	31 MAR 79	31 MAR 79

REVISIONS:



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MINISTRY OF EDUCATION

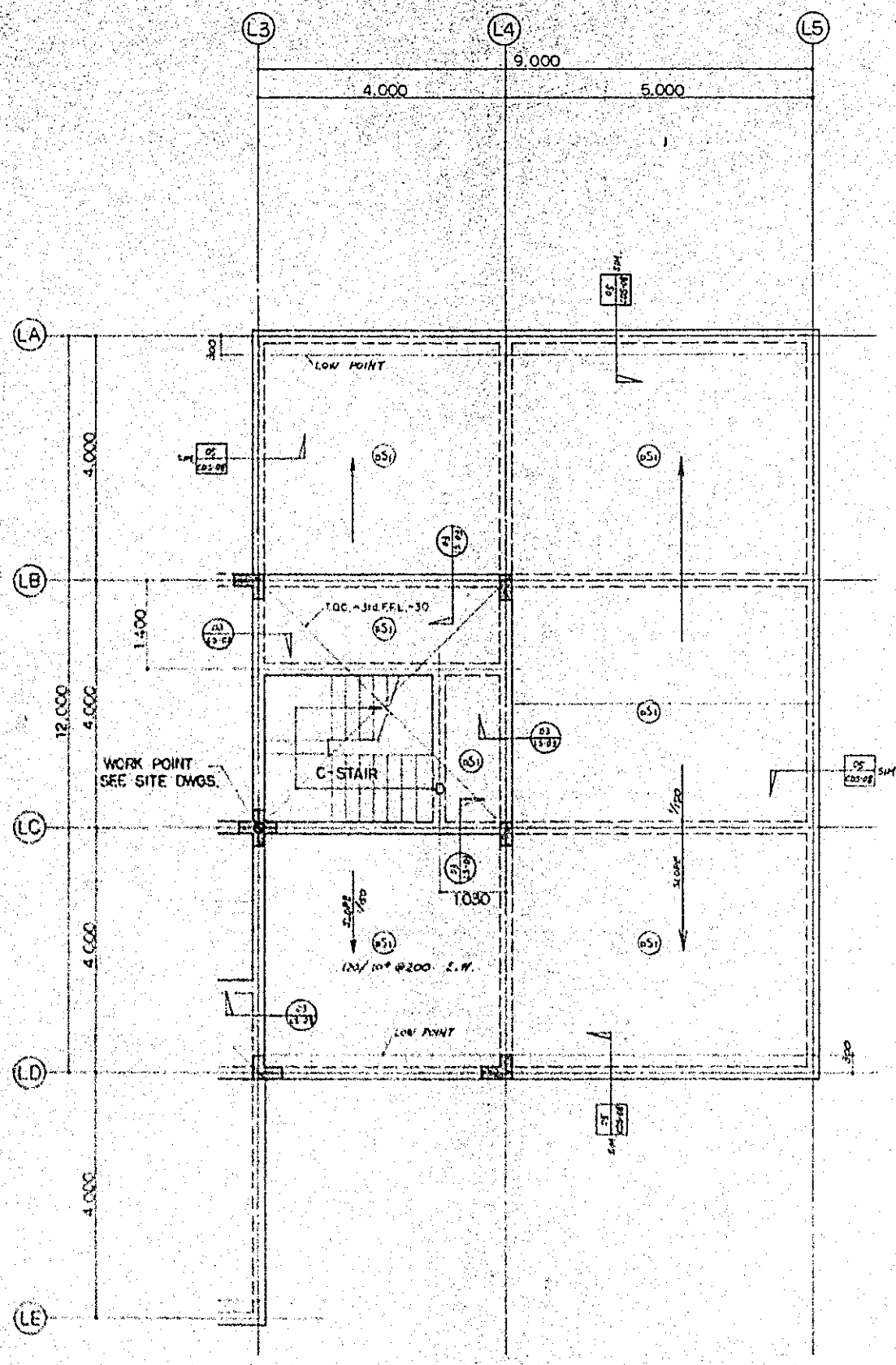
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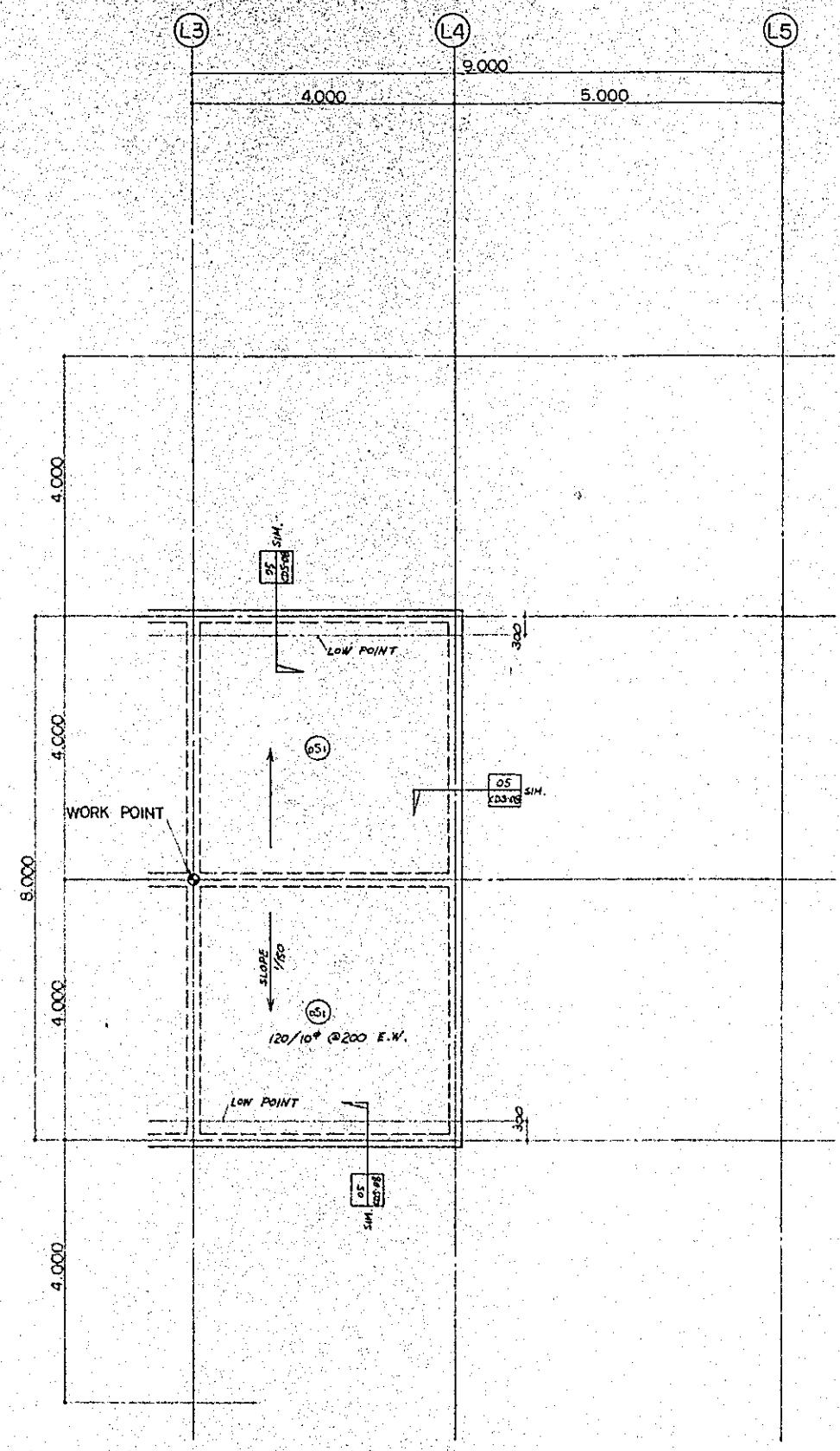
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GENERAL NOTES

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REF. NO.	
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	CHECKED: [Signature]

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01
LS02 3rd. FLOOR FRAMING PLAN

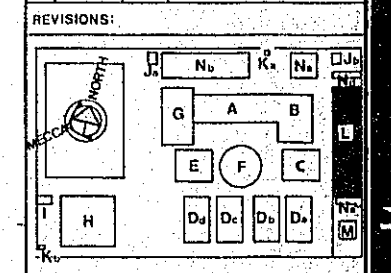


02
LS02 ROOF FRAMING PLAN

NOTE:
3rd. FLOOR FRAMING PLAN
1. T.O.C. (LOW POINT) = 3rd. FFL - 300

ROOF FRAMING PLAN
1. T.O.C. (LOW POINT) = RSL ± 0.

NO.	DESCRIPTION	DATE



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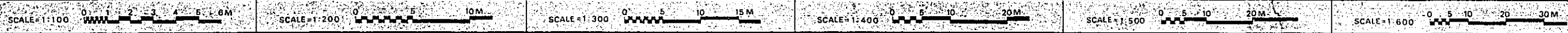
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TITLE: BUILDING - L
3rd. FLOOR AND
ROOF FRAMING PLAN

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JOB NO.	
REF. NO.	
DATE: 31 MAR 79	DRAWN: [Signature]
	CHECKED: [Signature]

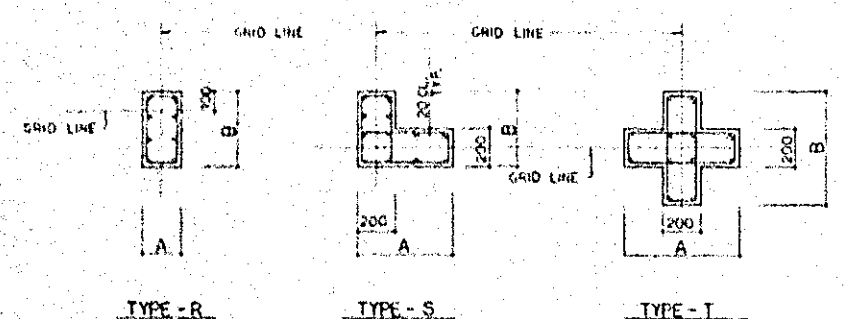
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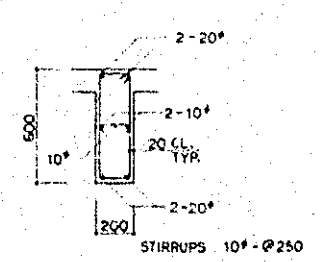
COLUMN SCHEDULE

LEVEL	COLUMN FOOTING	LA			LB			LC			LD			LE		
		L3	L4	L5	L3	L4	L5	L3	L4	L5	L3	L4	L5	L3	L4	L5
RSL																
3.050 3rd.FFL	COL. SIZE A/B				490/390	200/390		590/390	200/390		490/390	490/390				
	VERT. REINF.				12-20 ⁺	8-20 ⁺		12-20 ⁺	8-20 ⁺		12-20 ⁺	12-20 ⁺				
	TIES				10 ⁺ @200	10 ⁺ @200		10 ⁺ @200	10 ⁺ @200		10 ⁺ @200	10 ⁺ @200				
	TYPE				S	R		T	R		S	S				
3.600 2nd.FFL	COL. SIZE A/B	490/390	490/390		490/390	200/390	200/390	590/390	200/390	200/390	490/390	490/390		490/390		
	VERT. REINF.	12-20 ⁺	12-20 ⁺		12-20 ⁺	8-20 ⁺	8-20 ⁺	12-20 ⁺	8-20 ⁺	8-20 ⁺	12-20 ⁺	12-20 ⁺		12-20 ⁺		
	TIES	10 ⁺ @200	10 ⁺ @200		10 ⁺ @200	10 ⁺ @200		10 ⁺ @200	10 ⁺ @200		10 ⁺ @200	10 ⁺ @200		10 ⁺ @200		
	TYPE	S	S		S	R	R	T	R	R	S	S		S		
3.650 1st.FFL	COL. SIZE A/B	490/390	490/390		490/390	200/390	200/390	590/390	200/390	200/390	490/390	490/390		490/390		
	VERT. REINF.	12-20 ⁺	12-20 ⁺		12-20 ⁺	8-20 ⁺	8-20 ⁺	12-20 ⁺	8-20 ⁺	8-20 ⁺	12-20 ⁺	12-20 ⁺		12-20 ⁺		
	TIES	10 ⁺ @200	10 ⁺ @200		10 ⁺ @200	10 ⁺ @200		10 ⁺ @200	10 ⁺ @200		10 ⁺ @200	10 ⁺ @200		10 ⁺ @200		
	TYPE	S	S		S	R	R	T	R	R	S	S		S		
BOTTOM OF COL.																
DOWELS		12-20 ⁺	12-20 ⁺		12-20 ⁺	8-20 ⁺	8-20 ⁺	12-20 ⁺	8-20 ⁺	8-20 ⁺	12-20 ⁺	12-20 ⁺		12-20 ⁺		
COLUMN FOOTING	SIZE	A	1,200	1,200	1,400	1,400	1,200	1,400	1,400	1,200	1,400	1,400	1,200	1,200		
		B	1,200	1,200	1,400	1,400	1,200	1,400	1,400	1,200	1,400	1,400	1,200	1,200		
	I	400	400	500	500	400	500	500	400	500	500	400	400			
	REINF.		7-16 ⁺ E.W.	7-16 ⁺ E.W.	8-16 ⁺ E.W.	8-16 ⁺ E.W.	7-16 ⁺ E.W.	8-16 ⁺ E.W.	8-16 ⁺ E.W.	7-16 ⁺ E.W.	8-16 ⁺ E.W.	8-16 ⁺ E.W.	7-16 ⁺ E.W.	7-16 ⁺ E.W.		

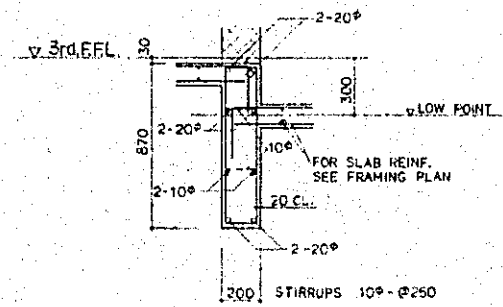
NOTE:
1. FOR DETAILS RELATING TO COL. SCHED. SEE COMMON DETAILS.



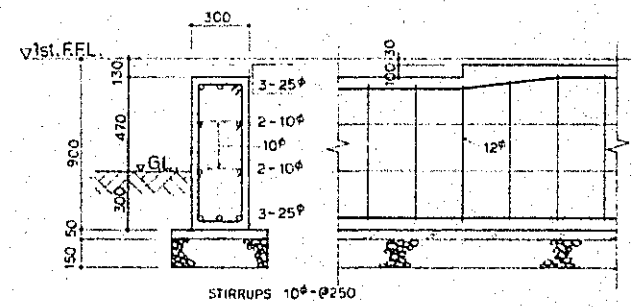
01 LS-03 COLUMN TYPE



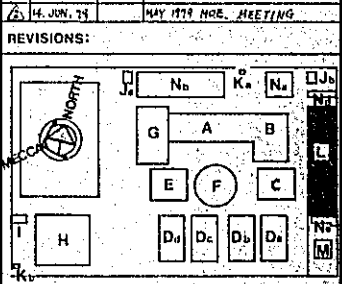
02 LS-03 TYP. BEAM SCHEDULE 1/20



03 LS-03 SECTIONAL DETAILS 1/20



04 LS-03 SECTIONAL DETAILS 1/20



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TITLE: BUILDING - I
COLUMN AND BEAM
SCHEDULE
SECTIONAL DETAILS
SCALE: 1/20 DWG. NO. LS-03
JOB NO. REF. NO.
DATE: 31.MAR.79

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وزارة المعارف

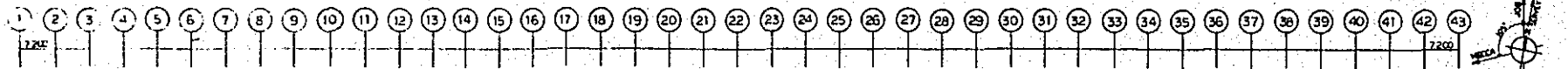


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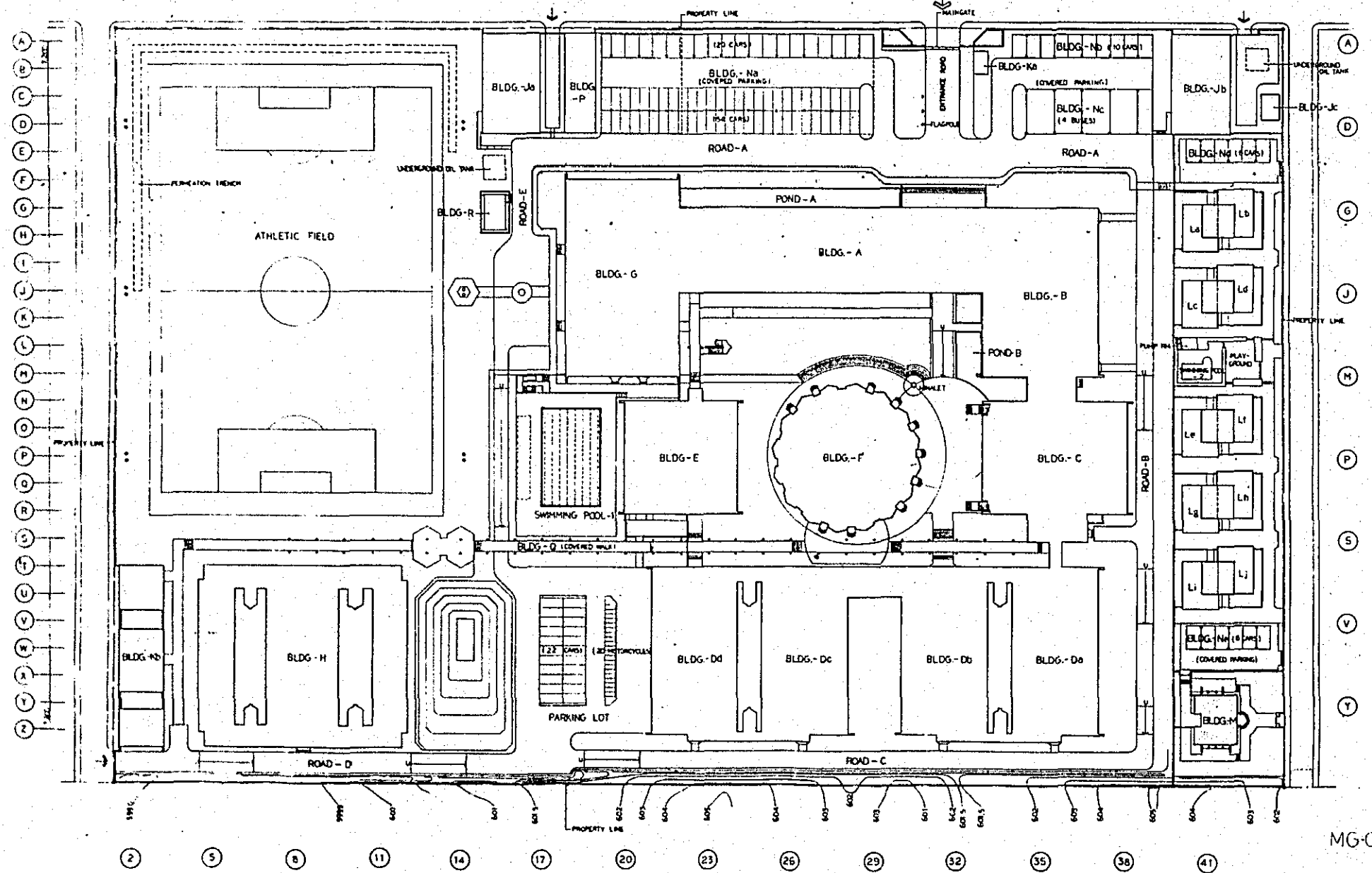
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- A
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- R



SCALE=1:100 0 1 2 3 4 5 6M

SCALE=1:200 0 5 10M

SCALE=1:300 0 5 10 15M

SCALE=1:400 0 5 10 20M

SCALE=1:500 0 5 10 20M

SCALE=1:600 0 5 10 20 30M

INDEX OF DRAWING VOLUMES

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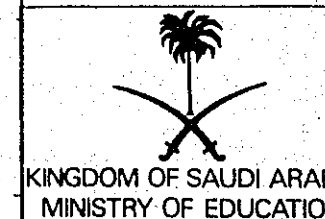
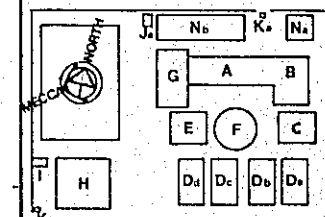
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LIGHTING & SOCKET			
1st FLOOR PLAN	1 / 100	ME-02	

NOTE:

14 JUN 79	AWY FROM JLD'S MEETING
14 MAR 79	GENERAL

REVISIONS:



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INSTITUTE
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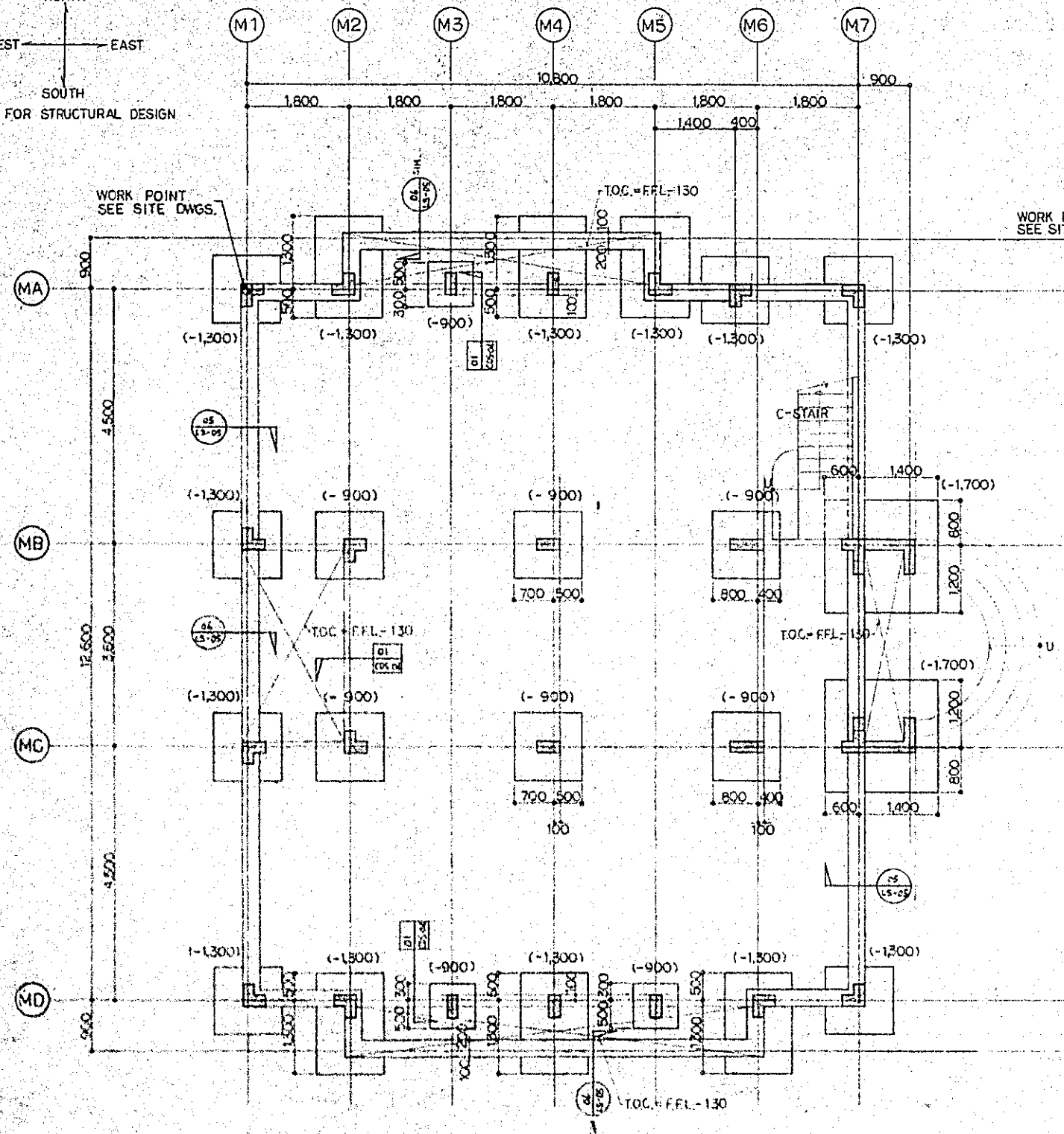
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GENERAL NOTES

SCALE: NS	DWG NO
JOB NO	MG-02
REF. NO	
DATE	DRAWN
31 JAN 79	CHECKED

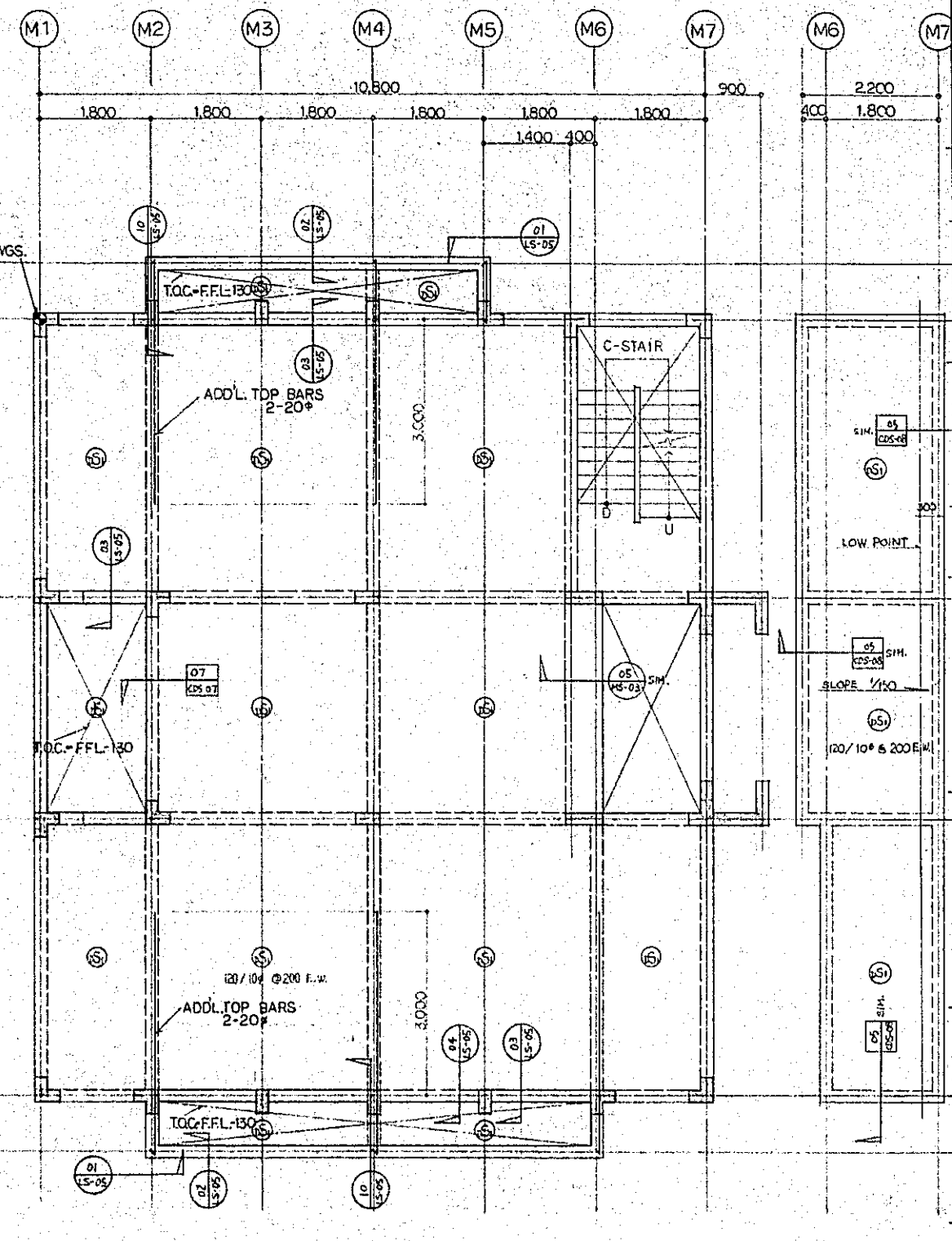
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NORTH
WEST — EAST
SOUTH
DIR. FOR STRUCTURAL DESIGN



01 FOUNDATION PLAN
MS-01

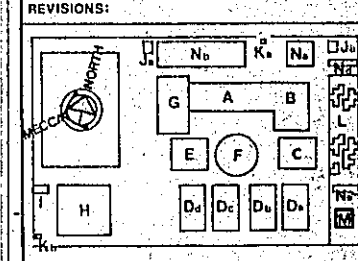


02 2nd. FLOOR FRAMING PLAN
MS-01

03 ROOF FRAMING PLAN
MS-01

NOTE:
FOUNDATION PLAN
1. (---) DENOTES BOTTOM OF FTG. EL. FROM 1st FFL.
2. T.O.C. = 1st. FFL. - 30. U.O.N.
2nd FLOOR FRAMING PLAN
1. T.O.C. = 2nd. FFL. - 30. U.O.N.
ROOF FRAMING PLAN
1. T.O.C. (LOW POINT) = R.S.L. ± 0

4. JUN. 79	MAY 1979 MGR. MEETING
3. MAR. 79	GENERAL



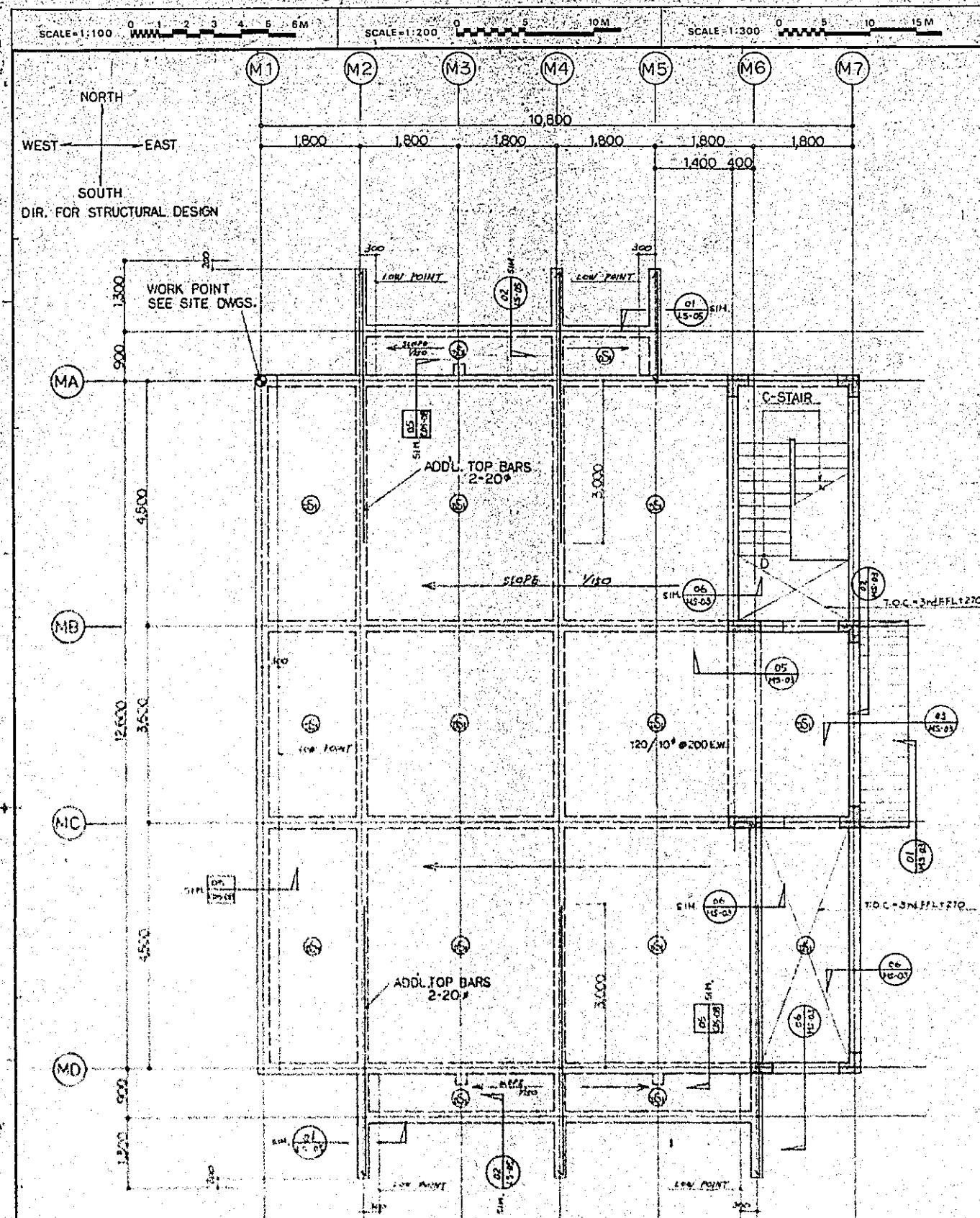
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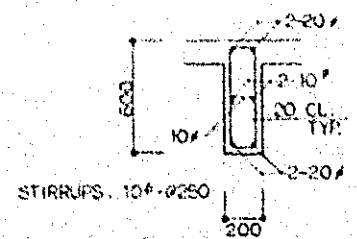
TITLE: BUILDING - M
FOUNDATION PLAN,
2nd. FLOOR AND ROOF
FRAMING PLAN

SCALE: 1/50	DWG. NO. MS-01
JOB NO.	
REF. NO.	
DATE: 31. JAN. 79	DRAWN: (Signature) CHECKED: (Signature)

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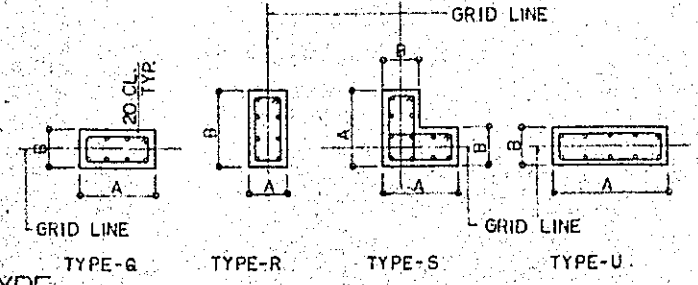
01 3rd. FLOOR FRAMING PLAN
MS-02
1/50



02 TYP. BEAM SCHEDULE
MS-02
1/20

COL. SIZE 390/200
VERT. REINF. 8-20^ϕ
TIES 2-10^ϕ @ 200
TYPE Q

UNLESS OTHERWISE NOTED HERE,
COL. SCHED. OF 3rd. FFL. SHALL BE
EQUAL TO THAT OF 2nd. FFL.



03 COLUMN TYPE
MS-02

COLUMN SCHEDULE															
LEVEL	COLUMN FOOTING	MA							MB						
		M1	M2	M3	M4	M5	M6	M7	M1	M2	M4	M6	M7		
3rd. FFL															
	COL. SIZE	A/B 390/200	390/200	220/200	200/390	390/200	390/200		390/200	600/200	390/200	600/200	390/200		
	VERT. REINF.	12-20 ^ϕ	12-20 ^ϕ	8-20 ^ϕ	8-20 ^ϕ	12-20 ^ϕ			12-20 ^ϕ	8-20 ^ϕ	10-20 ^ϕ	12-20 ^ϕ			
	TIES	2-10 ^ϕ @ 200										2-10 ^ϕ @ 200			
	TYPE	S	S	R	R	S			S	Q	U	S			
2nd. FFL															
	COL. SIZE	A/B 390/200	390/200	220/200	200/390	390/200			390/200	600/200	390/200	600/200	390/200		
	VERT. REINF.	12-20 ^ϕ	12-20 ^ϕ	8-20 ^ϕ	8-20 ^ϕ	12-20 ^ϕ			12-20 ^ϕ	8-20 ^ϕ	10-20 ^ϕ	12-20 ^ϕ			
	TIES	2-10 ^ϕ @ 200										2-10 ^ϕ @ 200			
	TYPE	S	S	R	R	S			S	Q	U	S			
1st. FFL															
	COL. SIZE	A/B 390/200	390/200	220/200	200/390	390/200			390/200	600/200	390/200	600/200	390/200		
	VERT. REINF.	12-20 ^ϕ	12-20 ^ϕ	8-20 ^ϕ	8-20 ^ϕ	12-20 ^ϕ			12-20 ^ϕ	8-20 ^ϕ	10-20 ^ϕ	12-20 ^ϕ			
	TIES	2-10 ^ϕ @ 200										2-10 ^ϕ @ 200			
	TYPE	S	S	R	R	S			S	Q	U	S			
	REIN.	7-16 ^ϕ E.W.	7-16 ^ϕ E.W.	4-16 ^ϕ E.W.	7-16 ^ϕ E.W.	7-16 ^ϕ E.W.			7-16 ^ϕ E.W.	4-16 ^ϕ E.W.	7-16 ^ϕ E.W.	4-16 ^ϕ E.W.	7-16 ^ϕ E.W.		
	REIN.	7-16 ^ϕ E.W.	7-16 ^ϕ E.W.	4-16 ^ϕ E.W.	7-16 ^ϕ E.W.	7-16 ^ϕ E.W.			7-16 ^ϕ E.W.	4-16 ^ϕ E.W.	7-16 ^ϕ E.W.	4-16 ^ϕ E.W.	7-16 ^ϕ E.W.		

LEVEL	COLUMN & FOOTING	NC					MD							
		M1	M2	M4	M6	M7	M1	M2	M3	M4	M5	M6	M7	
3rd. FFL														
	COL. SIZE	A/B 390/200	390/200	600/200	390/200	390/200	390/200	200/390	200/390	200/390	390/200	390/200	390/200	
	VERT. REINF.	12-20 ^ϕ	12-20 ^ϕ	8-20 ^ϕ	10-20 ^ϕ	12-20 ^ϕ	12-20 ^ϕ	8-20 ^ϕ	8-20 ^ϕ	8-20 ^ϕ	12-20 ^ϕ	12-20 ^ϕ	12-20 ^ϕ	
	TIES	2-10 ^ϕ @ 200									2-10 ^ϕ @ 200	2-10 ^ϕ @ 200		
	TYPE	S	S	Q	U	S	S	R	R	R	S	S		
2nd. FFL														
	COL. SIZE	A/B 390/200	390/200	600/200	390/200	390/200	390/200	200/390	200/390	200/390	390/200	390/200	390/200	
	VERT. REINF.	12-20 ^ϕ	12-20 ^ϕ	8-20 ^ϕ	10-20 ^ϕ	12-20 ^ϕ	12-20 ^ϕ	8-20 ^ϕ	8-20 ^ϕ	8-20 ^ϕ	12-20 ^ϕ	12-20 ^ϕ	12-20 ^ϕ	
	TIES	2-10 ^ϕ @ 200									2-10 ^ϕ @ 200	2-10 ^ϕ @ 200		
	TYPE	S	S	Q	U	S	S	R	R	R	S	S		
1st. FFL														
	COL. SIZE	A/B 390/200	390/200	600/200	390/200	390/200	390/200	200/390	200/390	200/390	390/200	390/200	390/200	
	VERT. REINF.	12-20 ^ϕ	12-20 ^ϕ	8-20 ^ϕ	10-20 ^ϕ	12-20 ^ϕ	12-20 ^ϕ	8-20 ^ϕ	8-20 ^ϕ	8-20 ^ϕ	12-20 ^ϕ	12-20 ^ϕ	12-20 ^ϕ	
	TIES	2-10 ^ϕ @ 200									2-10 ^ϕ @ 200	2-10 ^ϕ @ 200		
	TYPE	S	S	Q	U	S	S	R	R	R	S	S		
	REIN.	7-16 ^ϕ E.W.	7-16 ^ϕ E.W.	4-16 ^ϕ E.W.	7-16 ^ϕ E.W.	7-16 ^ϕ E.W.		7-16 ^ϕ E.W.	4-16 ^ϕ E.W.	7-16 ^ϕ E.W.	4-16 ^ϕ E.W.	7-16 ^ϕ E.W.	4-16 ^ϕ E.W.	
	REIN.	7-16 ^ϕ E.W.	7-16 ^ϕ E.W.	4-16 ^ϕ E.W.	7-16 ^ϕ E.W.	7-16 ^ϕ E.W.		7-16 ^ϕ E.W.	4-16 ^ϕ E.W.	7-16 ^ϕ E.W.	4-16 ^ϕ E.W.	7-16 ^ϕ E.W.	4-16 ^ϕ E.W.	

NOTE:
3rd. FRAMING PLAN
1. T.O.C. (LOW POINT) - 3rd. FFL ± 0 UOM
COLUMN SCHEDULE
1. FOR DETAILS RELATING TO COL. SCHED. SEE COMMON DETAILS.

NO.	DATE	BY	REVISIONS
1	31. MAR. 79		GENERAL

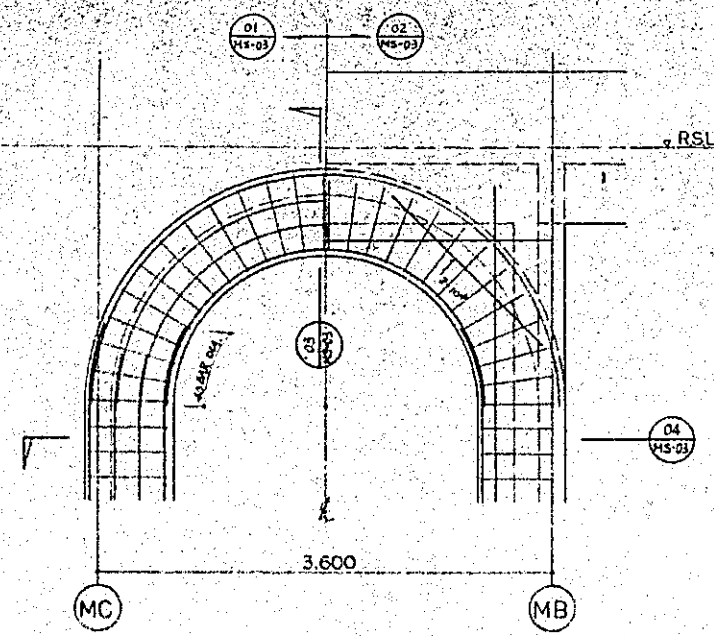
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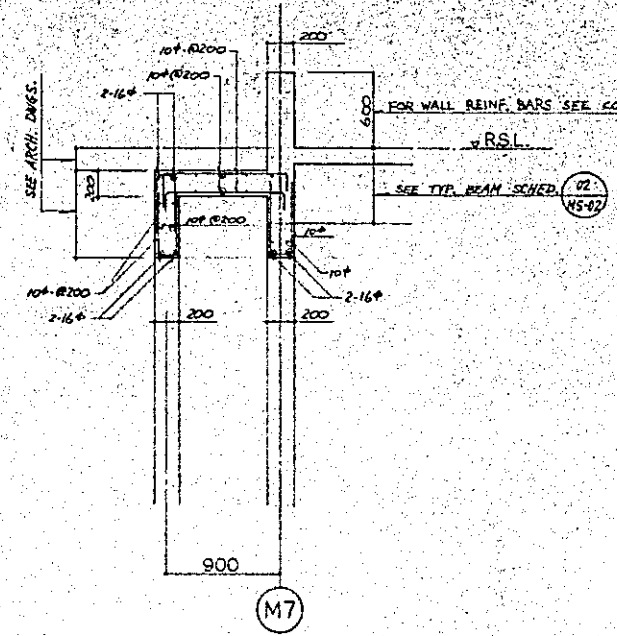
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3rd. FLOOR FRAMING PLAN
AND BEAM AND
COLUMN SCHEDULE

SCALE: 1/50	DWG. NO.
JOB NO.	MS-02
REF. NO.	
DATE: 31. JAN. 79	CHECKED: [Signature]

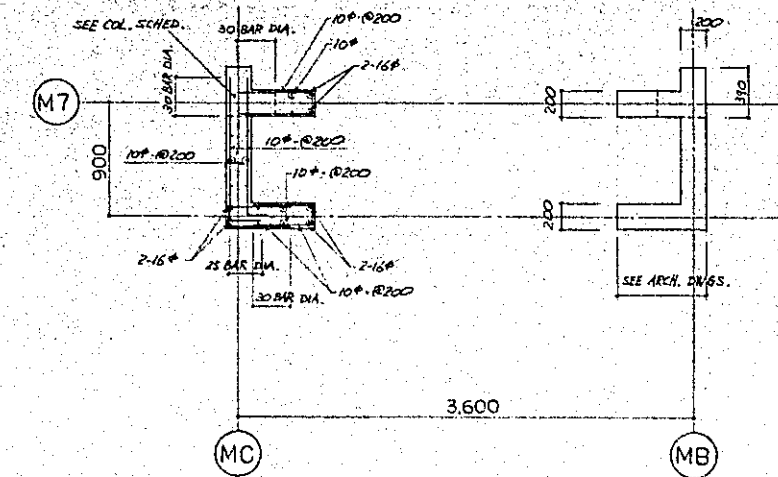
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وزارة المعارف
المعهد التقني الإلكتروني في الرياض



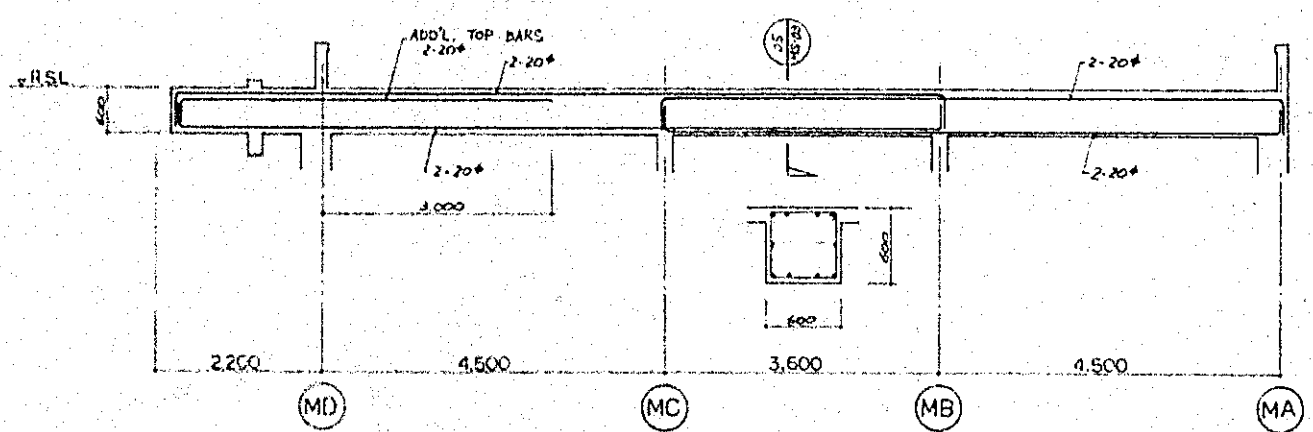
01 SECTIONAL DETAIL
MS-03 1/30



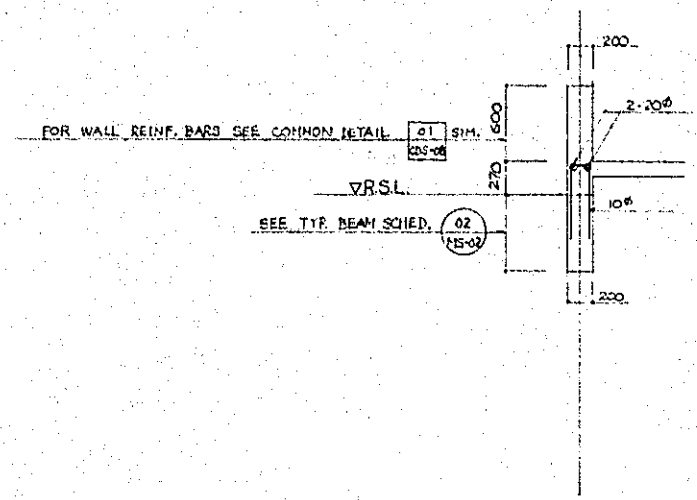
02 SECTIONAL DETAIL
MS-03 1/30



03 SECTIONAL DETAIL
MS-03 1/30



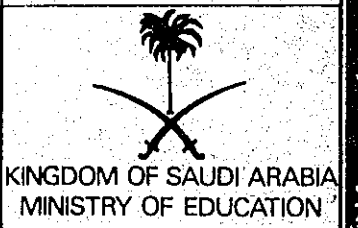
04 SECTIONAL DETAIL
MS-03 1/30, 1/50



05 SECTIONAL DETAIL
MS-03 1/30

NOTE:

NO.	REVISIONS



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TITLE: BUILDING - M
SECTIONAL DETAILS

SCALE: 1/30, 1/50	DWG. NO. MS-03
JOB NO.	
REF. NO.	
DATE: 31. JAN. 79	DRAWN: [Signature] CHECKED: [Signature]

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وزارة المعارف

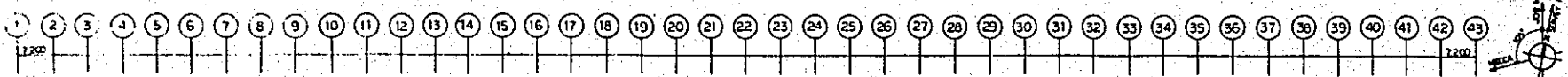


TECHNICAL ELECTRONICS INSTITUTE IN RIYADH المعهد الفني للإلكترونيات في الرياض VOLUME 2

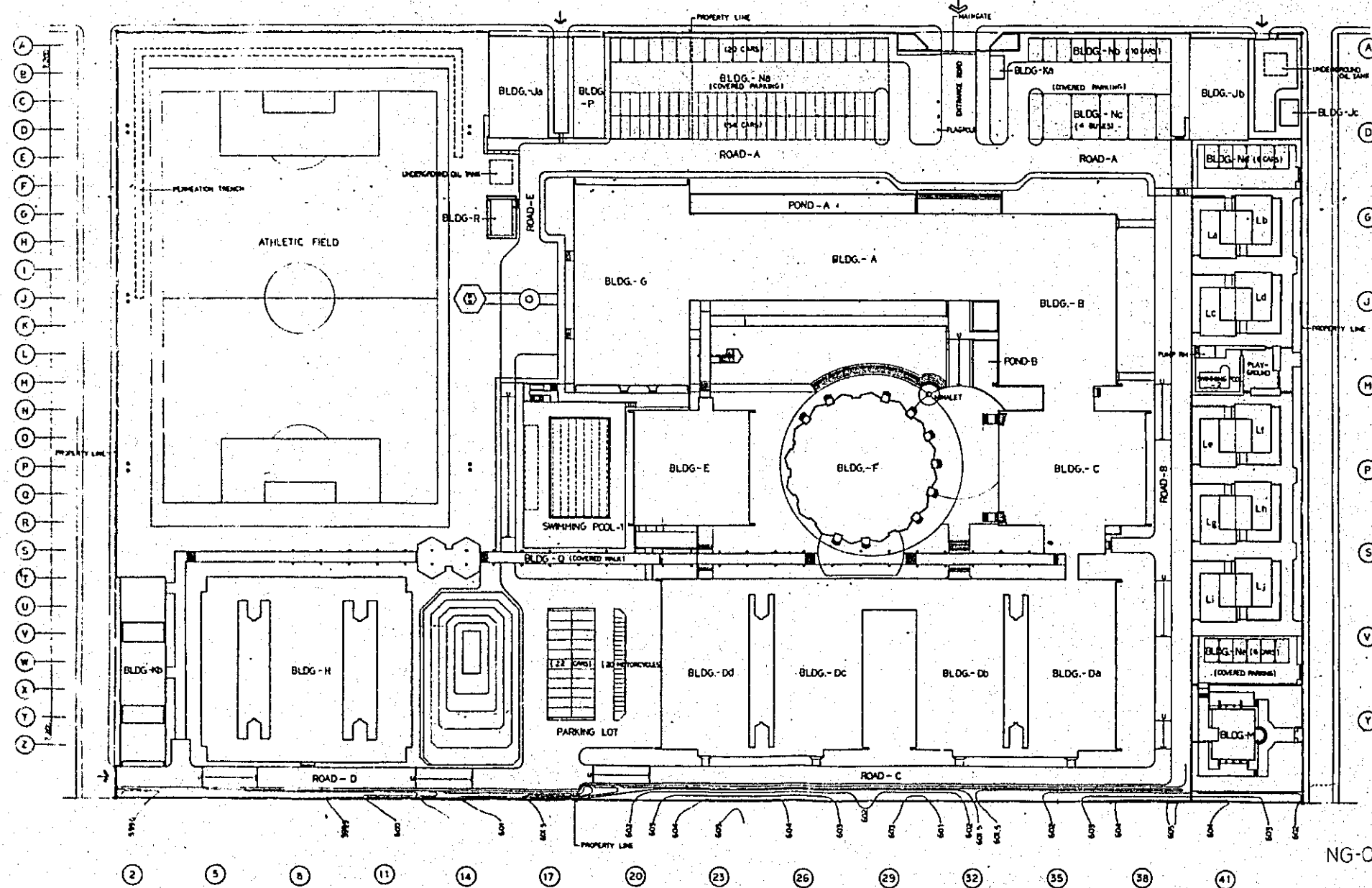
THE KINGDOM OF SAUDI ARABIA
MINISTRY OF EDUCATION

BUILDING-N COVERED PARKING

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- A ADMINISTRATION
- B GENERAL EDUCATION
- C AUDITORIUM / COMPUTER
- D TECHNICAL EDUCATION
- E CAFETERIA / LIBRARY
- F MOSQUE
- G GYMNASIUM
- H DORMITORY
- J GENERATOR
- K GUARD / SERVANT
- L TEACHERS' RESIDENCES
- M DIRECTOR'S VILLA
- N COVERED PARKING
- P TREATMENT PLANT
- Q COVERED WALK
- R GAS STORAGE



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SCALE=1:500 0 5 10 20M

SCALE=1:600 0 5 10 20 30M

INDEX OF DRAWING VOLUMES

TECHNICAL ELECTRONICS INSTITUTE IN RIYADH

VOLUME 1	VOLUME 2	VOLUME 3	VOLUME 4
ARCHITECTURAL	STRUCTURAL	MECHANICAL	ELECTRICAL

GENERAL INFORMATION

THE DRAWINGS ARE DIVIDED INTO FOUR VOLUMES FOR EASE OF HANDLING. IN ORDER TO SATISFY THE REQUIREMENT FOR FLEXIBILITY IN TERMS OF ISOLATING INDIVIDUAL BUILDINGS, THE DRAWINGS IN VOLUME I, III AND IV ARE ORGANIZED INTO BUILDING SETS.

EACH SET HAS ITS OWN COVER SHEET, INDEX AND INTERNAL NUMBERING SYSTEM, AND INCLUDES ALL DISCIPLINES' DRAWINGS FOR THAT BUILDING. EACH SET CAN BE COMPLETED BY COMBINING WITH THE COMMON DETAIL SET. FOR CONVENIENCE WHEN BOUND INTO VOLUMES.

GRID DIMENSIONING SYSTEM

THE METRIC SYSTEM HAS BEEN USED THROUGHOUT THE DOCUMENTS. THE LARGE MODULAR GRID REPRESENTS THE 7.2 STRUCTURAL GRID. THE ENTIRE SITE IS KEYED TO THIS GRID BY ALPHABET AND NUMBER. THE SMALLER MODULE IS THE 0.9 PLANNING GRID. TYPICALLY, ALL PARTITIONS ARE CENTERED ON THIS GRID. ELEMENTS NOT INDICATED AS BEING CENTERED ON EITHER GRID ARE DIMENSIONED TO THE CLOSEST GRID LINE. IF NO DIMENSION APPEARS, THE ELEMENT IS TO BE CENTERED ON THE GRID LINE.

PARTITION SCHEDULE

A PARTITION SCHEDULE IS LOCATED ON EACH FLOOR PLAN SHEET. PARTITION TYPES ARE IDENTIFIED ON THE PLANS BY USE OF A SYMBOL ADJACENT TO EACH PARTITION OR BY A NOTE IN THE SCHEDULE IDENTIFYING GROUPS OF PARTITIONS. THE PARTITION TYPES ARE LOCATED IN THE 'ARCHITECTURAL COMMON DETAIL SET.

INTERIOR COLUMN AND EXTERIOR WALL IS CONSIDERED A PARTITION TYPE AND IS ACCOMMODATED IN THE PARTITION NOTES AND SCHEDULE.

DOOR SCHEDULE

THE DOOR SCHEDULE IS TYPICALLY INDICATED ON EACH DOOR ON EACH FLOOR PLAN SHEET WITHIN EACH BUILDING SET. THE DOOR TYPES ARE LOCATED IN THE ARCHITECTURAL COMMON DETAIL SET. WHEN DOORS ARE CALLED IN NOTES, DOORS ARE TO BE IDENTIFIED BY THE NAMES AND NUMBERS OF THE ROOMS SERVED. FOR ROOMS CONTAINING MORE THAN ONE DOOR, SUFFIXAL LETTERS ARE USED (a, b, c, ETC.). HARDWARE FOR EACH DOOR IS DESCRIBED IN THE HARDWARE TYPES BOUND IN THE SPECIFICATIONS. THE HARDWARE GROUPS ARE INDICATED ON EACH DOOR ON EACH FLOOR PLAN WITHIN EACH BUILDING SET. DOOR FRAME PROFILES ARE ALSO DRAWN IN THE ARCHITECTURAL COMMON DETAIL SET AND REFERENCED ON THE PLAN SHEETS AND DOOR SCHEDULE.

FINISH SCHEDULE

THE FINISH SCHEDULE IS TYPICALLY LOCATED ON EACH FLOOR PLAN SHEET OF EACH BUILDING SET, AND DESCRIBES THE FINISH FOR EACH SPACE ON EACH PLAN. THE MATERIAL LEGEND IS LOCATED IN THE ARCHITECTURAL COMMON DETAIL SET. NOTE THAT THE FINISH SCHEDULE INDICATES FINISH SURFACE ONLY NOT THE SUBSTRATE TO WHICH IT IS APPLIED. FOR SUBSTRATE MATERIAL SEE THE PARTITION SCHEDULE.

NOTE:

INDEX OF DRAWINGS FOR BUILDING-N, COVERED PARKING

GENERAL

COVER SHEET	NG-01
GENERAL NOTES	NG-02

ARCHITECTURAL (VOLUME 1)

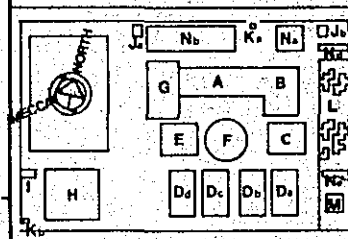
PLANS	1 / 100	NA-01
ELEVATIONS & SECTIONS	1 / 100	NA-02
DETAILS	1 / 20	NA-03

STRUCTURAL (VOLUME 2)

N1		
FOUNDATION PLAN	1 / 100	NS-01
	1 / 100	NS-02
FRAMING PLAN AND ELEVATION	1 / 100	NS-03
	1 / 100	NS-04
STEEL DETAILS	1 / 20	NS-05
N2, N3		
FOUNDATION PLAN	1 / 100	NS-06
FRAMING PLAN AND ELEVATION	1 / 100	NS-07
STEEL DETAILS	1 / 20	NS-08
N4, N5, N6		
FOUNDATION PLAN	1 / 100	NS-09
FRAMING PLAN AND ELEVATION	1 / 100	NS-09

NO.	DATE	DESCRIPTION

REVISIONS: GENERAL



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TITLE: GENERAL NOTES

SCALE:	DWG. NO. NG 02		
JOB NO.:			
REF. NO.:			
DATE	DRAWN	CHECKED	CHECKED
31 JAN. 79	(Signature)	(Signature)	(Signature)

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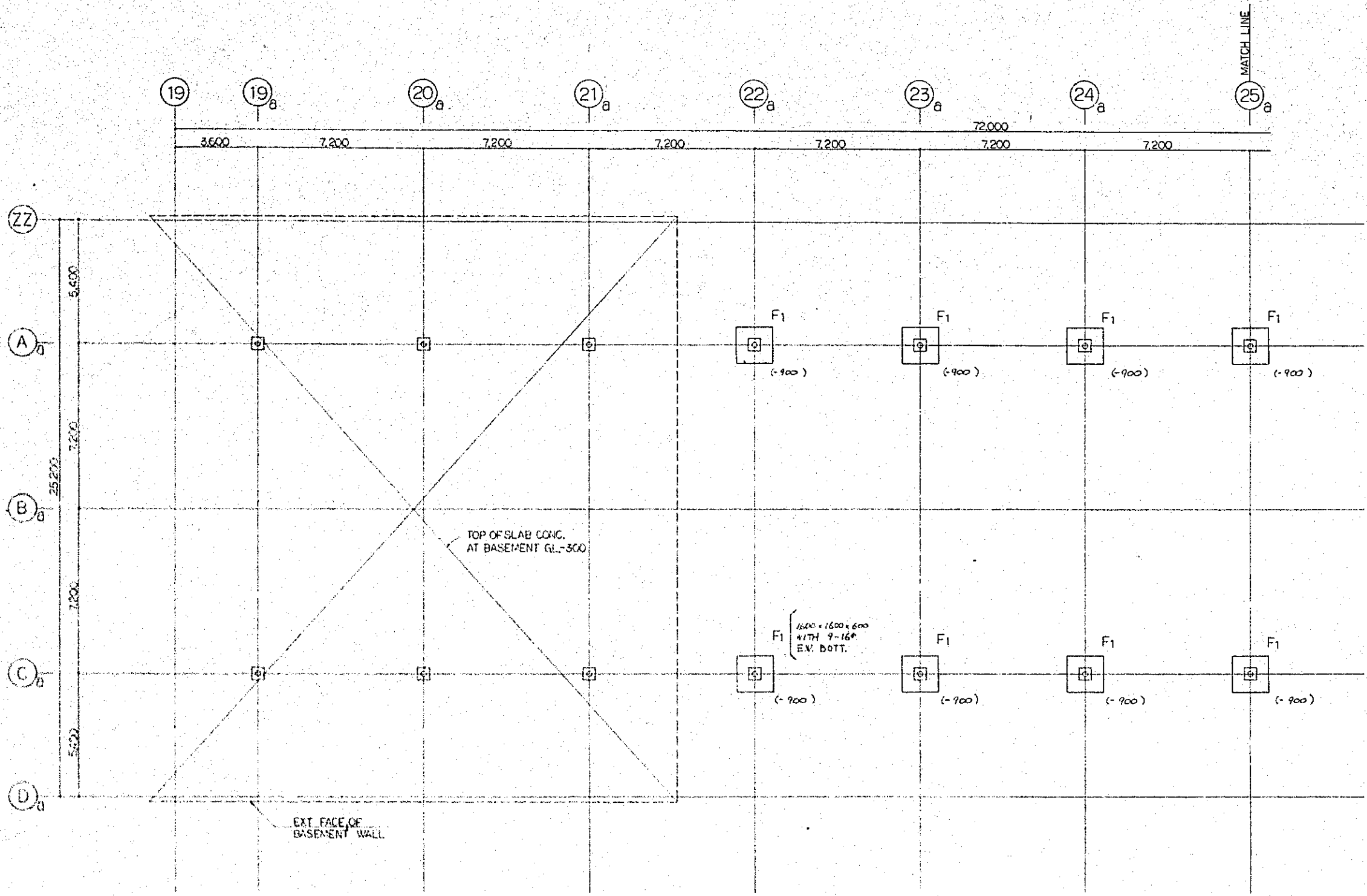
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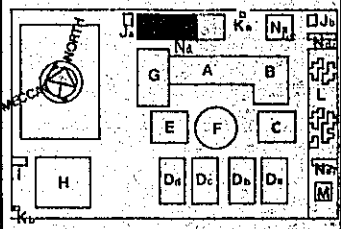
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NOTE:
1 (---) DENOTES BOTTOM OF FTG. EL. FROM GL.



14. JUN. 79 MAY 1979 M.O.E MEETING



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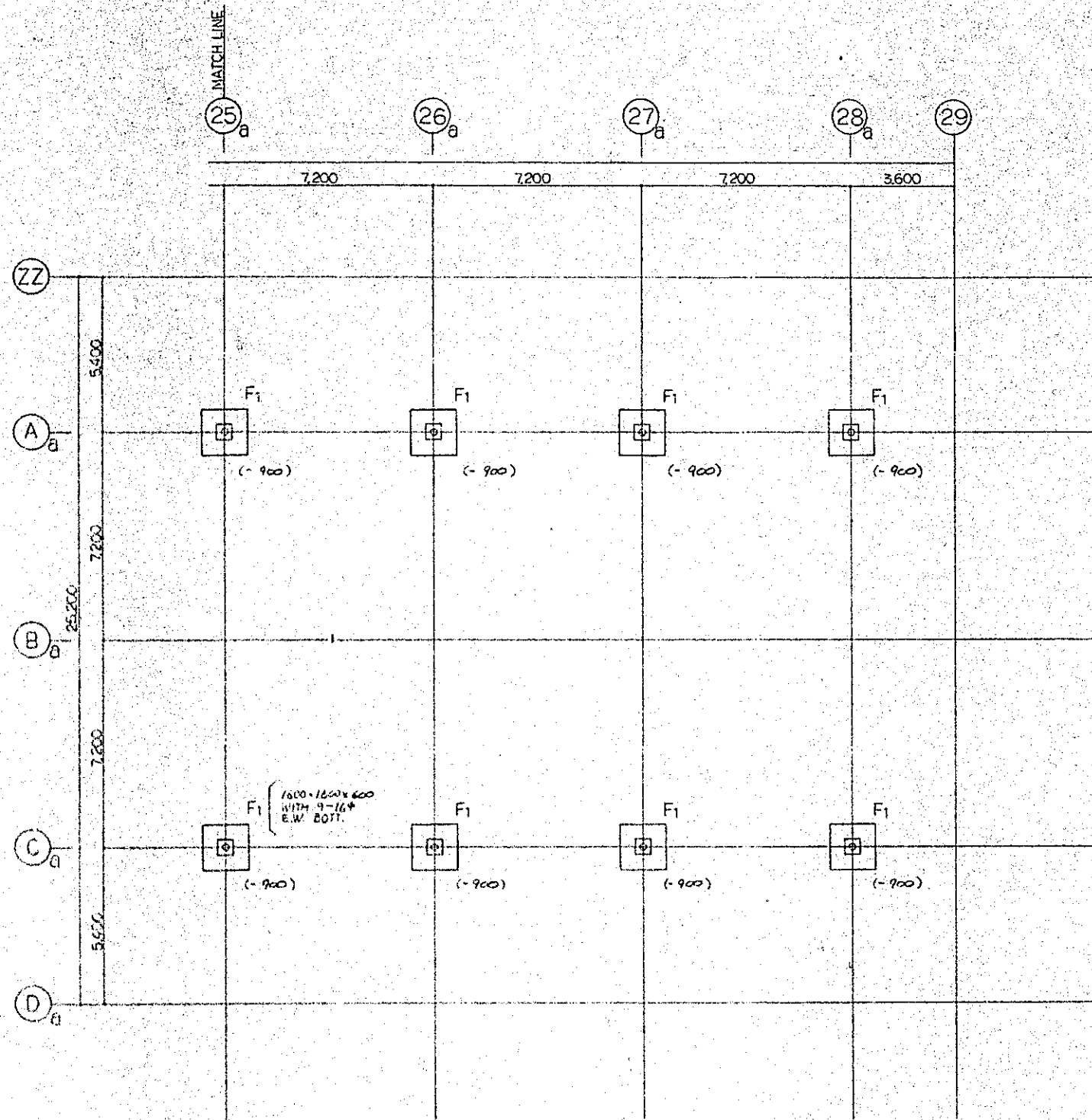
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FOUNDATION PLAN

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JOB NO.	
REF. NO.	
DATE 21 JUN 79	DRAWN BY [Signature]
	CHECKED BY [Signature]

(01)
NS-01 FOUNDATION PLAN

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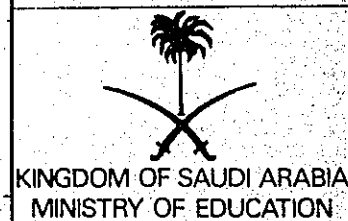
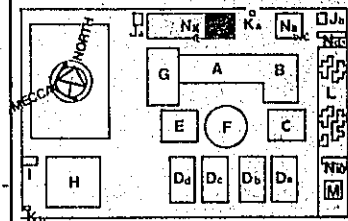
01 FOUNDATION PLAN
NS-02

NOTE:

1. (---) DENOTES BOTTOM OF FTG. EL. FROM GL.

14 JUN 77 MAY 1977 MOE MEETING

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TITLE: BUILDING - N (Na)
FOUNDATION PLAN

SCALE: 1/100	DWG. NO. NS-02
JOB NO.	
REF. NO.	
DATE: 31 JUN 77	
DRAWN: (Signature)	CHECKED: (Signature)

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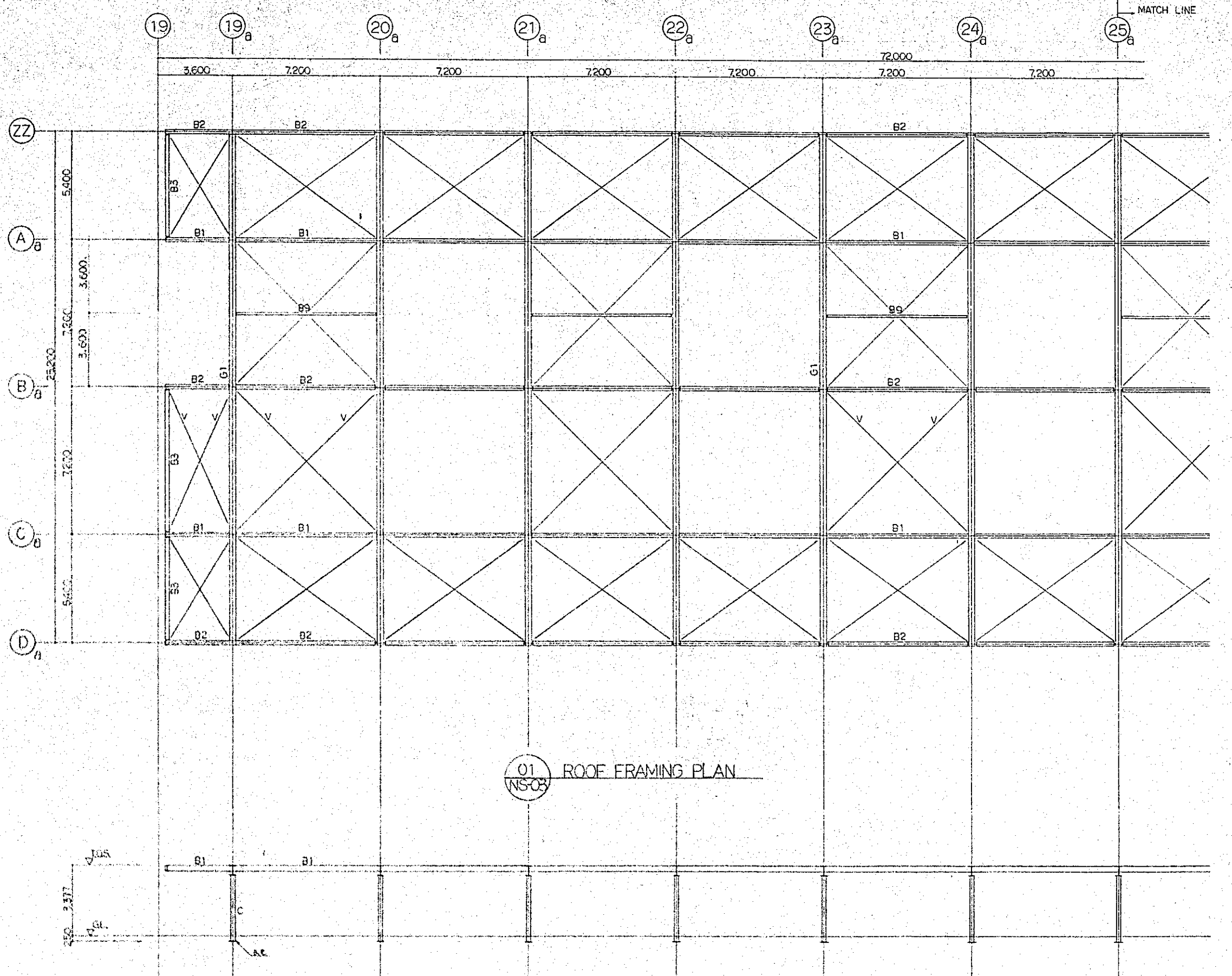
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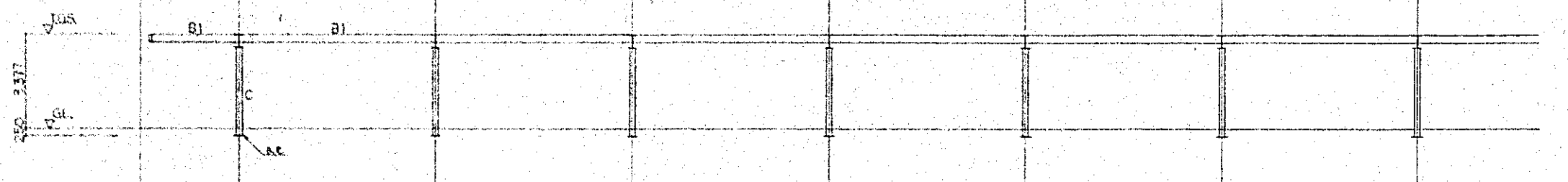
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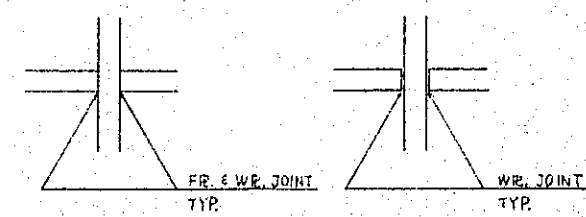
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01 ROOF FRAMING PLAN
NS-03

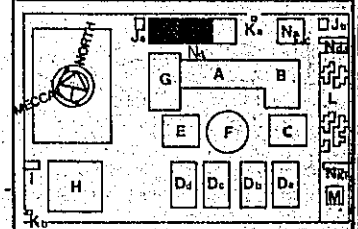


02 C-a LINE FRAMING ELEVATION
NS-03



NOTE
1. FOR SPECIFICATION FOR STRUCTURAL STEEL SHOWN ON THIS DWG. SEE DWG. CDS-02

REVISIONS:



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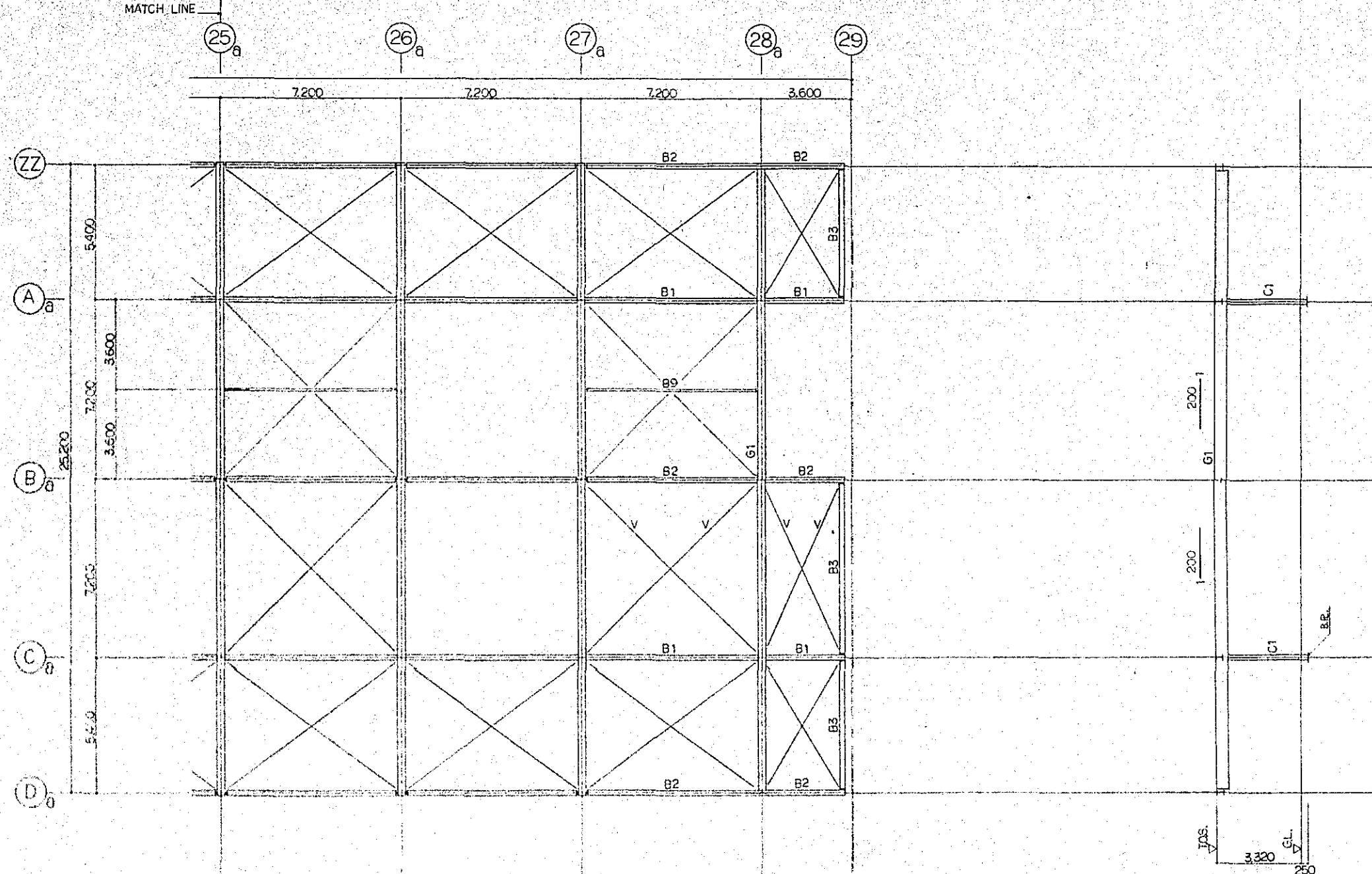
TECHNICAL ELECTRONICS
INSTITUTE
IN RIYADH

AZUSA SEKKEI CO., LTD.
2-27-3 MISHIGOTANDA, SHINAGAWA-KU,
TOKYO, JAPAN.

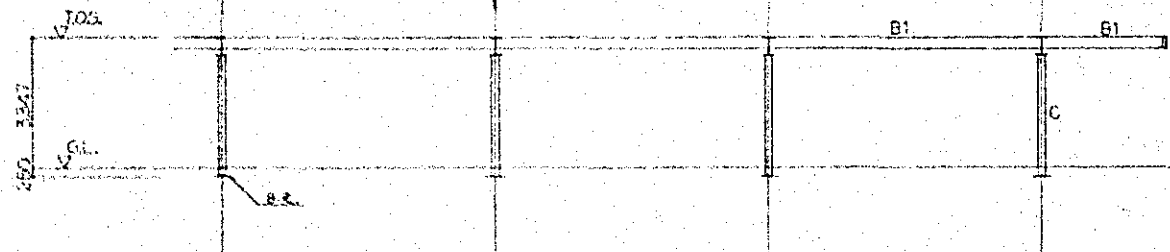
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FRAMING PLAN AND
ELEVATION

SCALE: 1/100	DWG. NO. NS-03
JOB NO.	
REF. NO.	
DATE: 31 JAN 79	DRAWN: (Signature)
CHECKED: (Signature)	

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01 ROOF FRAMING PLAN
NS-04

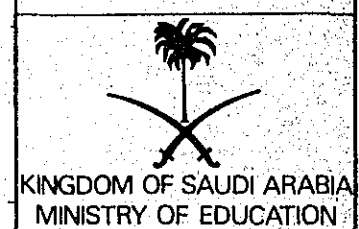
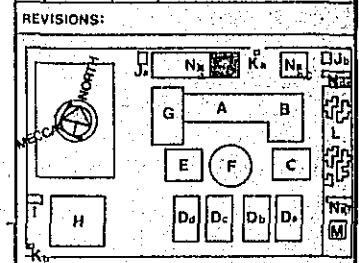


02 C-C LINE FRAMING ELEVATION
NS-04

MEMBER	SCHEDULE	REMARKS
G1	H-432 x 300 x 11 x 15	
B1	H-294 x 200 x 8 x 12	
B2	H-294 x 200 x 8 x 12	
B3	H-294 x 200 x 8 x 12	
B9	H-100 x 100 x 6 x 8	
C1	216.3 ^φ x 5.8	
V	19°	WITH TURN BUCKLE

03 28a LINE FRAMING ELEVATION
NS-04

NOTE:
1. FOR SPECIFICATION FOR STRUCTURAL STEEL SHOWN ON THIS DWG. SEE DWG. CDS-02



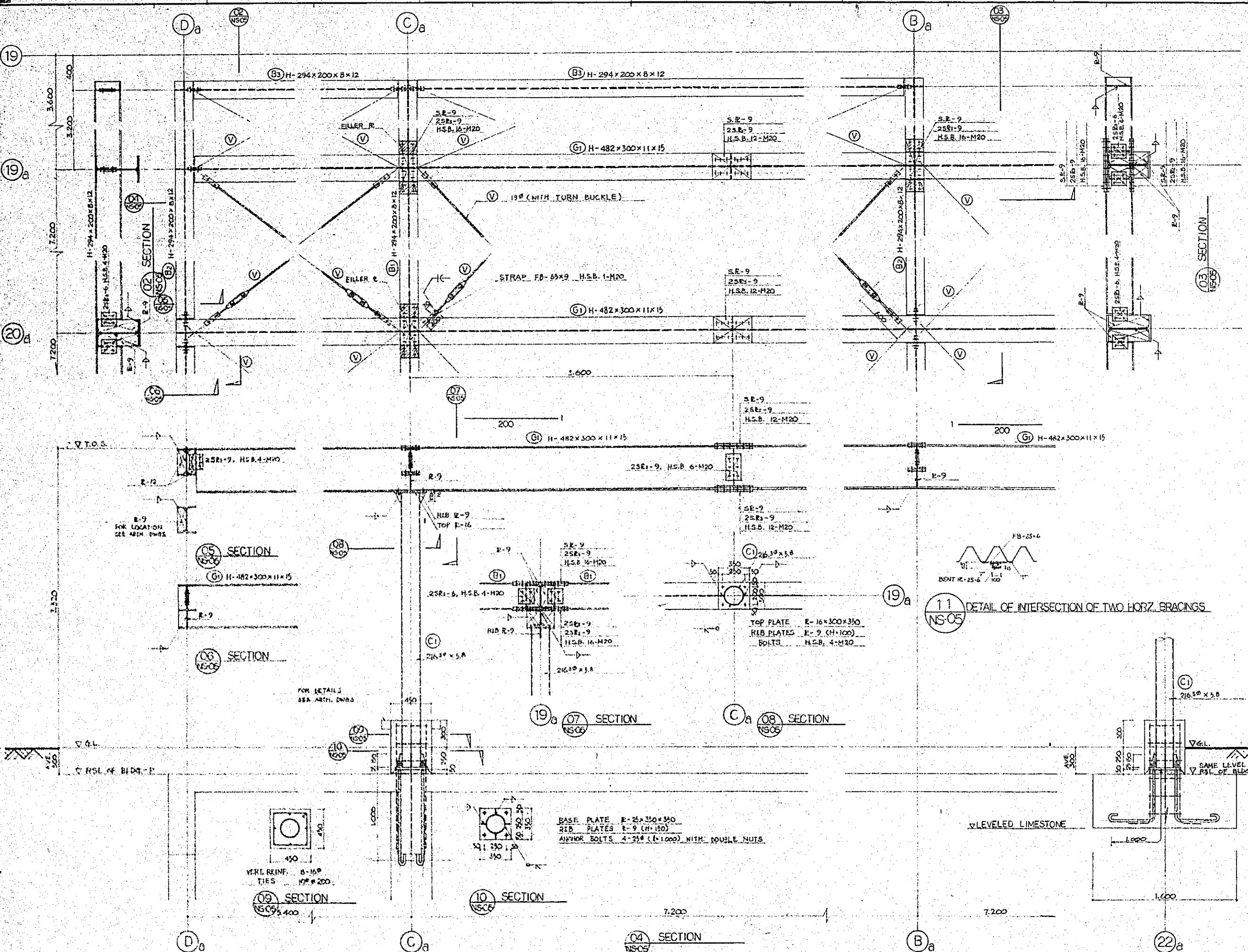
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INSTITUTE
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TOKYO, JAPAN

TITLE: BUILDING-N (No)
FRAMING PLAN AND
ELEVATION

SCALE: 1/100	DWG. NO. NS-04
JOB NO.	
REF. NO.	
DATE: 31 JAN, 79	DRAWN: [Signature]
	CHECKED: [Signature]

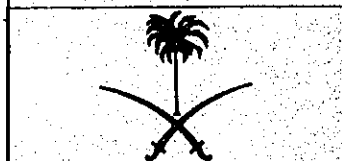
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NOTE:
1. FOR SPECIFICATION FOR STRUCTURAL STEEL SHOWN ON THIS DWG. SEE DWG. CDS-02

REVISIONS:

NO.	DESCRIPTION



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TOKYO, JAPAN

TITLE: BUILDING - N (N8)
STEEL DETAILS

SCALE: 1/20	DWG. NO. NS-05
JOB NO.	
REF. NO.	
DATE: 31/3/83	CHECKED:

01 NS-05 STEEL DETAILS BUILDING - Na

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المعهد الفني للإلكترونيات في الرياض

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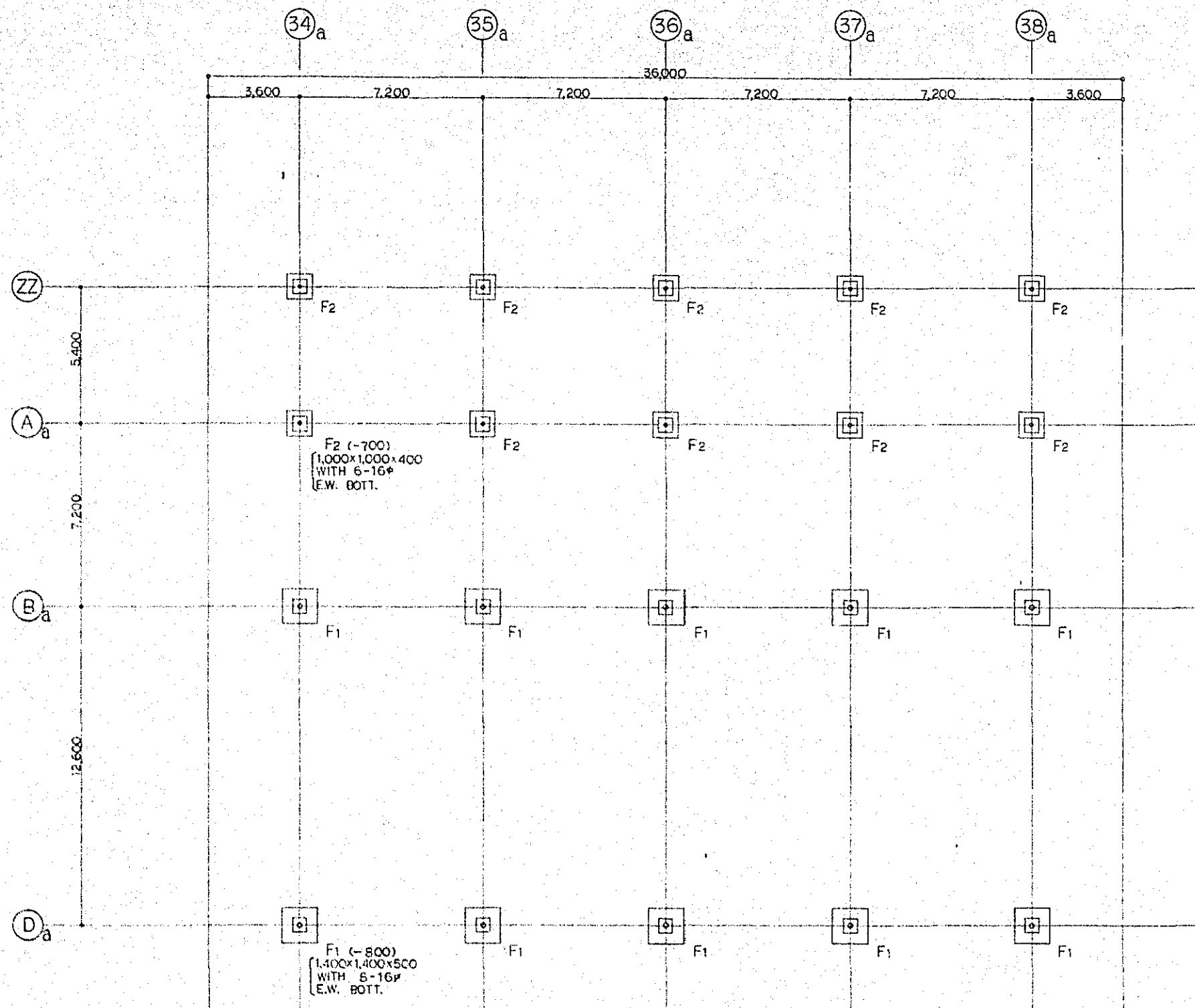
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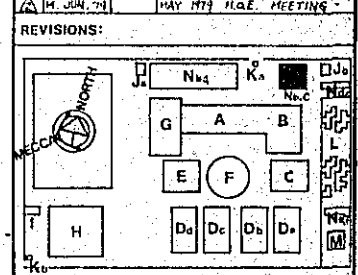
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SCALE=1:600 0 5 10 20 30M



01 FOUNDATION PLAN
NS-06

NOTE:
1. (---) DENOTES BOTTOM OF FTG. EL. FROM GL.



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TITLE: BUILDING-N (Nb, Nc)
FOUNDATION PLAN

SCALE: 1/100	DWG. NO. NS-06
JOB NO.	
REF. NO.	
DATE: 31 JAN. 79	DRAWN: [Signature]
	CHECKED: [Signature]

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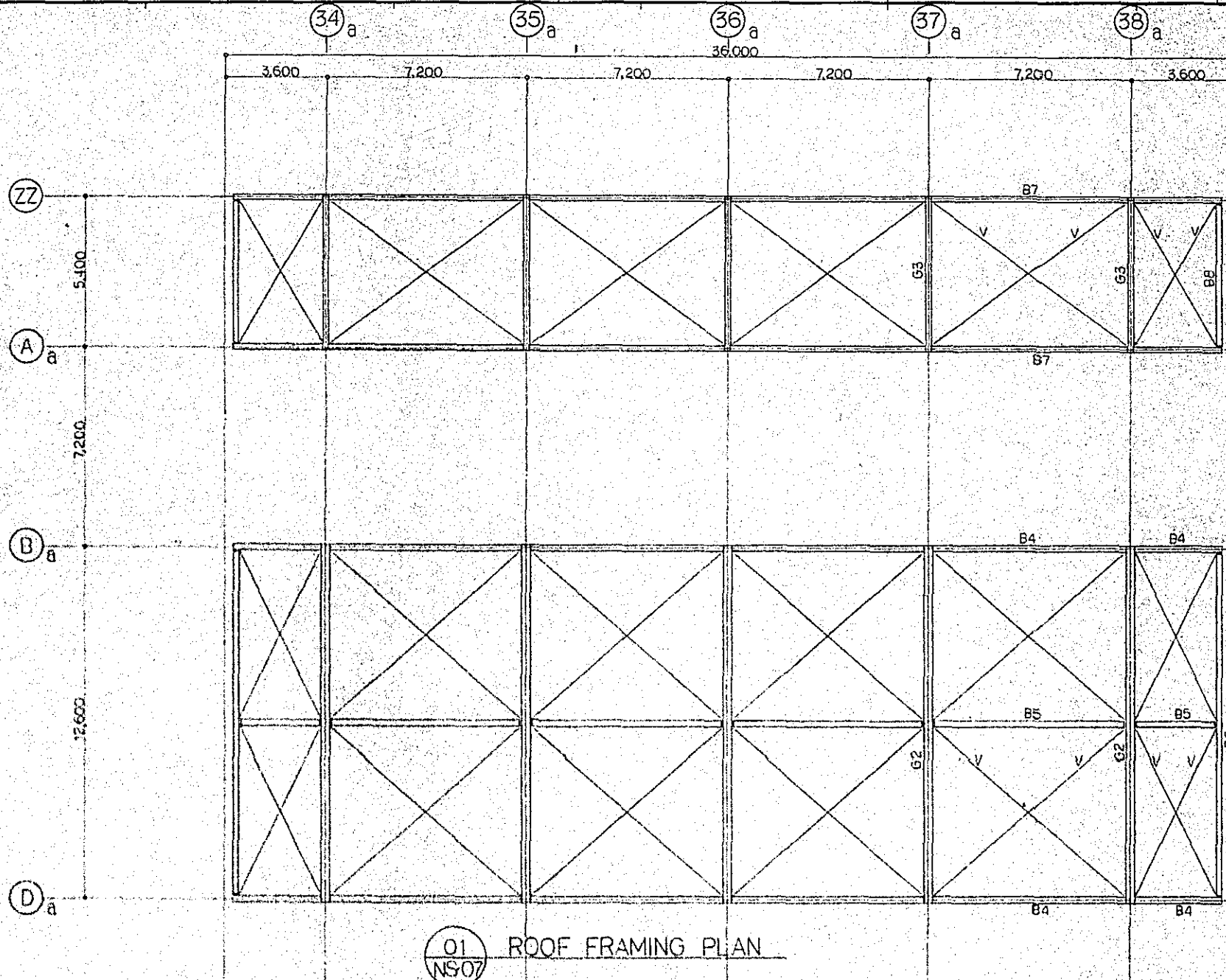
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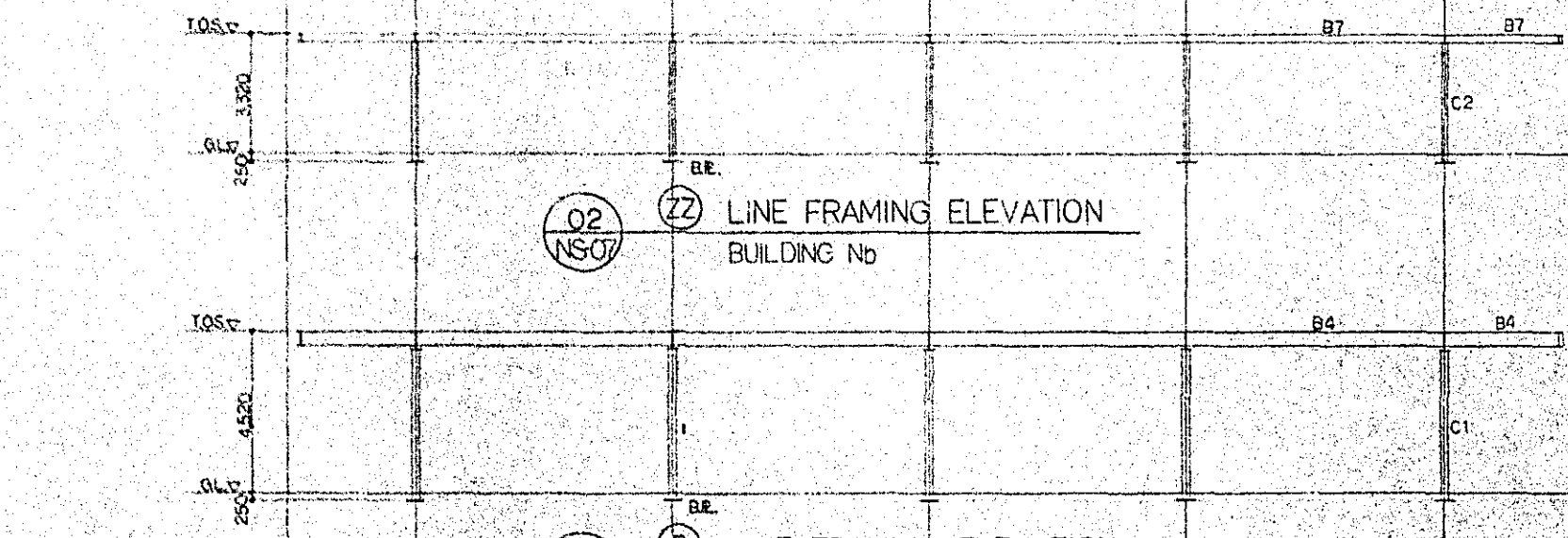
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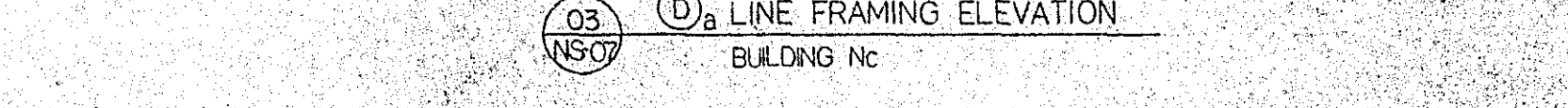
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01 ROOF FRAMING PLAN
NS07

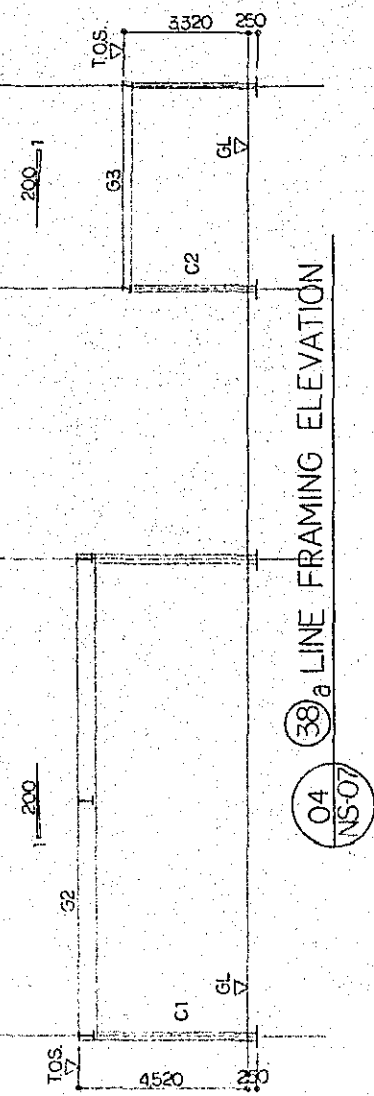


02 ZZ LINE FRAMING ELEVATION
BUILDING Nb
NS07



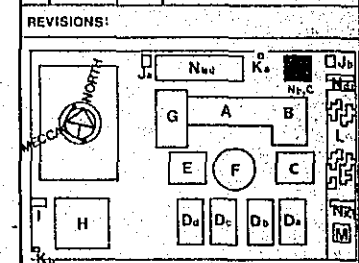
03 Dd LINE FRAMING ELEVATION
BUILDING Nc
NS07

MEMBER SCHEDULE		REMARKS
G3	H-244x175x7x11	
B7	H-244x175x7x11	
B8	H-244x175x7x11	
C2	165.2φ x 5.0	
G2	H-482x300x11x15	
B4	H-400x200x8x13	
B5	H-400x200x8x13	
B6	H-400x200x8x13	
C1	216.3φ x 5.8	
V	19φ	WITH TURN BUCKLE



04 38a LINE FRAMING ELEVATION
NS07

NOTE:
1. FOR SPECIFICATION FOR STRUCTURAL STEEL SHOWN ON THIS DWG. SEE DWG. CDS-02



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TITLE: BUILDING-N (Nb;Nc)
FRAMING PLAN AND
ELEVATION

SCALE: 1/100	DWG. NO.
JOB NO.	NS-07
REF. NO.	
DATE: 3/31/79	DRAWN: (Signature)
CHECKED: (Signature)	

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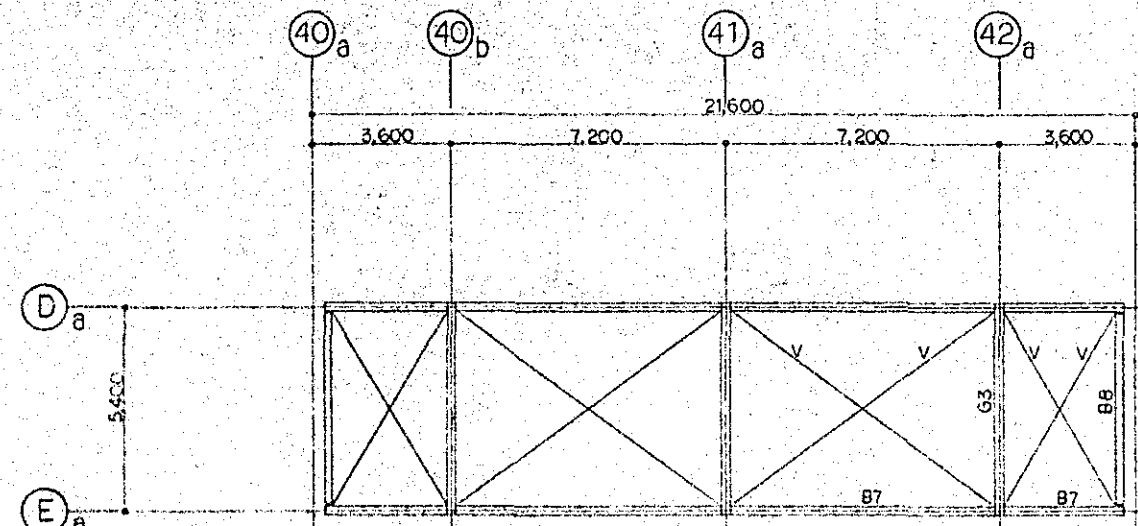
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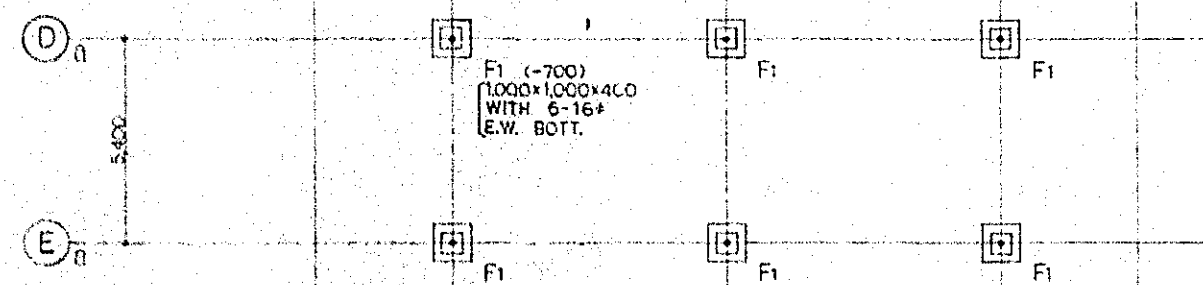
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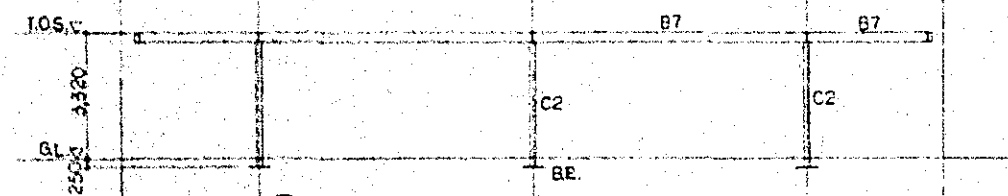
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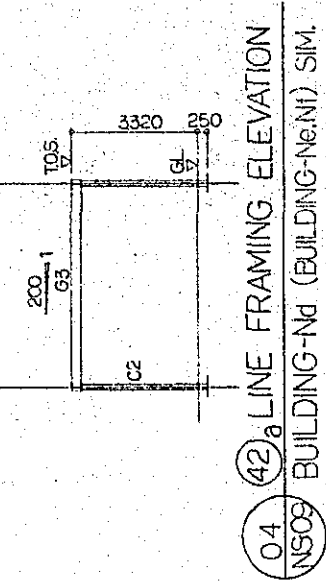
01 ROOF FRAMING PLAN
NS09 BUILDING-Nd (BUILDING-Ne,Nf) SIM.



02 FOUNDATION PLAN
NS09 BUILDING-Nd (BUILDING-Ne,Nf) SIM.



03 D LINE FRAMING ELEVATION
NS09 BUILDING-Nd (BUILDING-Ne,Nf) SIM.

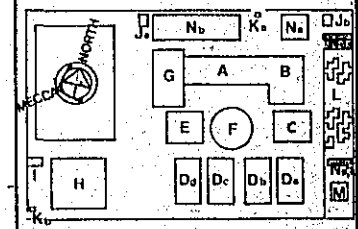


04 (42) LINE FRAMING ELEVATION
NS09 BUILDING-Nd (BUILDING-Ne,Nf) SIM.

MEMBER	SCHEDULE	REMARKS
G3	H-244x175x7x11	
B7	H-244x175x7x11	
B8	H-244x175x7x11	
C2	165 ² x 5 ⁰	
V	19#	WITH TURN BUCKLE

NOTE:
1. FOR SPECIFICATION FOR STRUCTURAL STEEL SHOWN ON THIS DWG. SEE DWG. CDS-02

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TITLE: BUILDING-N (Nd,Ne,Nf)
FOUNDATION PLAN, FRAMING
PLAN AND ELEVATION

SCALE: 1/100	DWG. NO. NS-09
JOB NO.	
REF. NO.	
DATE: 3/ JAN. 79	DRAWN: [Signature]
	CHECKED: [Signature]

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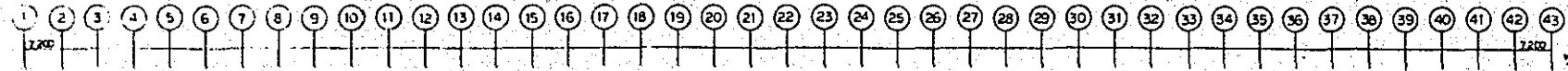
TECHNICAL ELECTRONICS INSTITUTE IN RIYADH المعهد التقني للإلكترونيات في الرياض

VOLUME 2

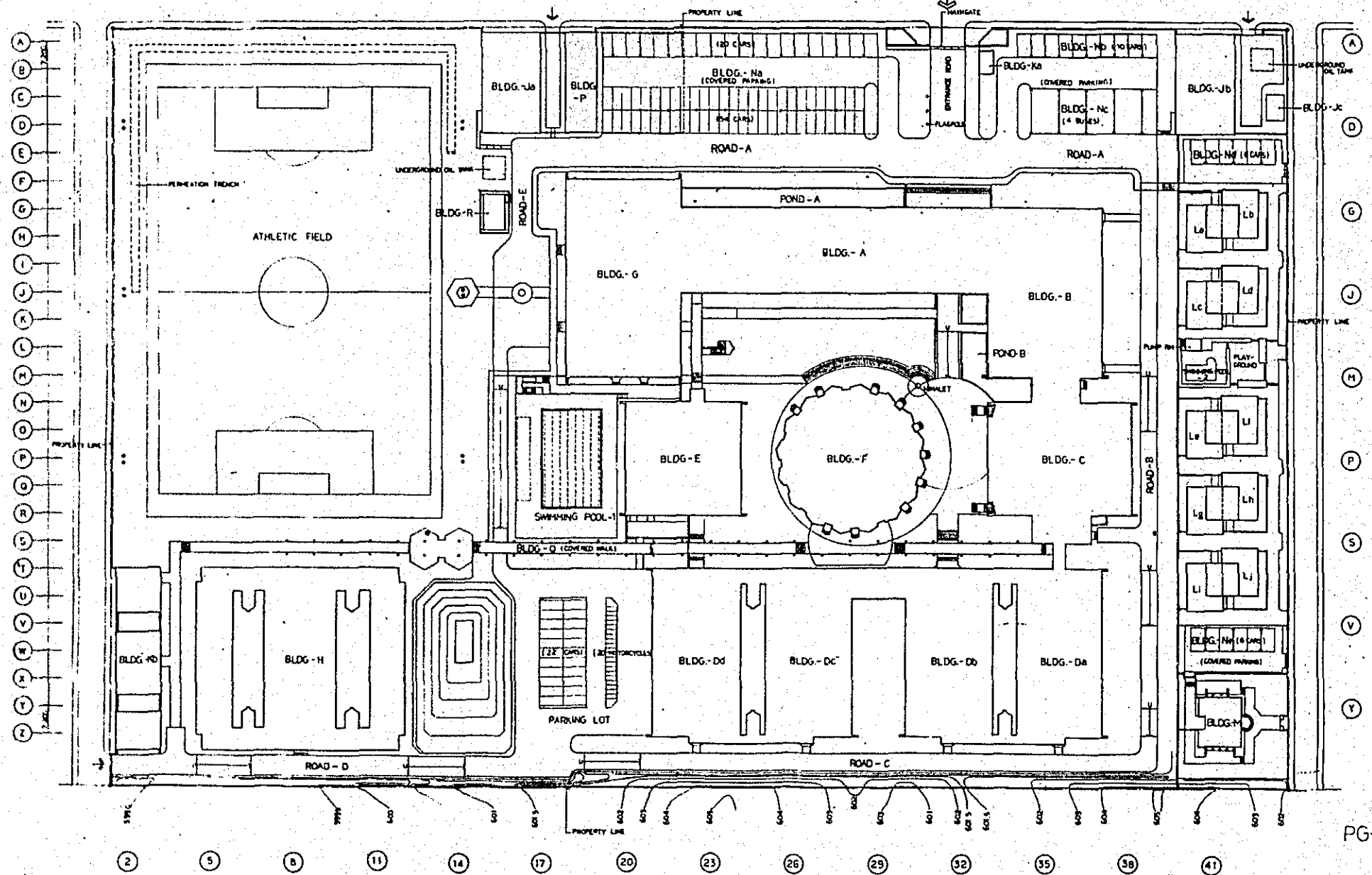
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BUILDING-P TREATMENT PLANT

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- A ADMINISTRATION
- B GENERAL EDUCATION
- C AUDITORIUM / COMPUTER
- D TECHNICAL EDUCATION
- E CAFETERIA / LIBRARY
- F MOSQUE
- G GYMNASIUM
- H DORMITORY
- J GENERATOR
- K GUARD / SERVANT
- L TEACHERS' RESIDENCES
- M DIRECTOR'S VILLA
- N COVERED PARKING
- P TREATMENT PLANT
- Q COVERED WALK
- R GAS STORAGE



SCALE=1:100 0 1 2 3 4 5 6M

SCALE=1:200 0 5 10M

SCALE=1:300 0 5 10 15M

SCALE=1:400 0 5 10 20M

SCALE=1:500 0 5 10 20M

SCALE=1:600 0 5 10 20 30M

INDEX OF DRAWING VOLUMES
TECHNICAL ELECTRONICS INSTITUTE IN RIYADH

VOLUME 1 ARCHITECTURAL	VOLUME 2 STRUCTURAL	VOLUME 3 MECHANICAL	VOLUME 4 ELECTRICAL
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GENERAL INFORMATION

THE DRAWINGS ARE DIVIDED INTO FOUR VOLUMES FOR EASE OF HANDLING. IN ORDER TO SATISFY THE REQUIREMENT FOR FLEXIBILITY IN TERMS OF ISOLATING INDIVIDUAL BUILDINGS, THE DRAWINGS IN VOLUME I, II, III AND IV ARE ORGANIZED INTO BUILDING SETS.

EACH SET HAS ITS OWN COVER SHEET, INDEX AND INTERNAL NUMBERING SYSTEM, AND INCLUDES ALL DISCIPLINES' DRAWINGS FOR THAT BUILDING. EACH SET CAN BE COMPLETED BY COMBINING WITH THE COMMON DETAIL SET. FOR CONVENIENCE WHEN BOUND INTO VOLUMES.

INDEX OF DRAWINGS FOR BUILDING-P, TREATMENT PLANT

GENERAL			
COVER SHEET	PS-01	POTABLE WATER TREATMENT	
GENERAL NOTES	PG-02	CONTROL CIRCUIT (NO.1)	PP-11
		POTABLE WATER TREATMENT	
		CONTROL CIRCUIT (NO.2)	PP-12
		POTABLE WATER TREATMENT	
		CONTROL CIRCUIT (NO.3)	PP-13
ARCHITECTURE (VOLUME 1)		COLD WATER SUPPLY PUMP	
PLANS	1/100 PA-01	CONTROL CIRCUIT (NO.1)	PP-14
ELEVATIONS & SECTIONS	1/100 PA-02	COLD WATER SUPPLY PUMP	
WALL SECTIONS	1/50 PA-03	CONTROL CIRCUIT (NO.2)	PP-15
PLAN DETAILS	1/50 PA-04	COLD WATER SUPPLY PUMP	
SECTION DETAILS	1/50 PA-05	CONTROL CIRCUIT (NO.2)	PP-16
SECTION DETAILS	1/50 PA-06	SEWAGE TREATMENT	
STAIRS	1/50 PA-07	CONTROL CIRCUIT (NO.1)	PP-17
MISCELLANEOUS	1/20 PA-08	SEWAGE TREATMENT	
		CONTROL CIRCUIT (NO.2)	PP-18
		CONTROL PANEL	PP-19
STRUCTURAL (VOLUME 2)		POTABLE WATER PUMP CONTROL CIRCUIT NO.1	PP-20
FOUNDATION PLAN	1/100 PS-01	POTABLE WATER PUMP CONTROL CIRCUIT NO.2	PP-21
1st FLOOR AND ROOF FRAMING PLAN	1/100 PS-02	POTABLE WATER PUMP CONTROL CIRCUIT NO.3	PP-22
		FIRE PROTECTION	
COLUMN AND BEAM SCHEDULE	PS-03	FIRE PLAN	1/100 PP-23
		CONTROL CIRCUIT (NO.1)	PP-24
PARTIAL FRAMING PLAN	1/50 PS-04	CONTROL CIRCUIT (NO.2)	PP-25
SECTIONAL DETAILS	1/50 PS-05		
SECTIONAL DETAILS	1/50 PS-06		
		ELECTRICAL (VOLUME 4)	
		FELDER SYSTEMS FLOOR	1/100 EL-01
MECHANICAL (VOLUME 3)		LIGHTING (SOX) OUTLET	
DUCT PLAN	1/100 PM-01	1st FLOOR	1/100 EL-02
		FIRE ALARM SYSTEM	
		1st FLOOR	1/100 EL-03
		FURNISHING (VOLUME 1)	
PUMPS (VOLUME 3)		1st FLOOR PLAN (FURNISHING)	1/100 FF-01
MULTI-PUMP PIPING PLAN	1/100 PP-01		
POTABLE WATER TREATMENT SYSTEM DIAGRAM	PP-02		
WATER SYSTEM DETAIL	PP-03		
SEWAGE TREATMENT SYSTEM			
DIAGRAM	PP-04		
PLAN	1/50 PP-05		
SECTION (NO.1)	1/50 PP-06		
SECTION (NO.2)	1/50 PP-07		
MOTOR POWER AND CONTROL WIRING SYSTEM			
PLAN	1/100 PP-08		
MOTOR CONTROL PANEL LIST (NO.1)	PP-09		
MOTOR CONTROL PANEL LIST (NO.2)	PP-10		

GRID DIMENSIONING SYSTEM

THE METRIC SYSTEM HAS BEEN USED THROUGHOUT THE DOCUMENTS. THE LARGE MODULAR GRID REPRESENTS THE 7.2 STRUCTURAL GRID. THE ENTIRE SITE IS KEYED TO THIS GRID BY ALPHABET AND NUMBER. THE SMALLER MODULE IS THE 09 PLANNING GRID. TYPICALLY, ALL PARTITIONS ARE CENTERED ON THIS GRID. ELEMENTS NOT INDICATED AS BEING CENTERED ON EITHER GRID ARE DIMENSIONED TO THE CLOSEST GRID LINE. IF NO DIMENSION APPEARS, THE ELEMENT IS TO BE CENTERED ON THE GRID LINE.

PARTITION SCHEDULE

A PARTITION SCHEDULE IS LOCATED ON EACH FLOOR PLAN SHEET. PARTITION TYPES ARE IDENTIFIED ON THE PLANS BY USE OF A SYMBOL ADJACENT TO EACH PARTITION OR BY A NOTE IN THE SCHEDULE. IDENTIFYING GROUPS OF PARTITIONS, THE PARTITION TYPES ARE LOCATED IN THE ARCHITECTURAL COMMON DETAIL SET.

INTERIOR COLUMN AND EXTERIOR WALL IS CONSIDERED A PARTITION TYPE AND IS ACCOMMODATED IN THE PARTITION NOTES AND SCHEDULE.

DOOR SCHEDULE

THE DOOR SCHEDULE IS TYPICALLY INDICATED ON EACH DOOR ON EACH FLOOR PLAN SHEET WITHIN EACH BUILDING SET. THE DOOR TYPES ARE LOCATED IN THE ARCHITECTURAL COMMON DETAIL SET. WHEN DOORS ARE CALLED IN NOTES, DOORS ARE TO BE IDENTIFIED BY THE NAMES AND NUMBERS OF THE ROOMS SERVED. FOR ROOMS CONTAINING MORE THAN ONE DOOR, SUFFIXAL LETTERS ARE USED (a, b, c, ETC.). HARDWARE FOR EACH DOOR IS DESCRIBED IN THE HARDWARE TYPES BOUND IN THE SPECIFICATIONS. THE HARDWARE GROUPS ARE INDICATED ON EACH DOOR ON EACH FLOOR PLAN WITHIN EACH BUILDING SET. DOOR FRAME PROFILES ARE ALSO DRAWN IN THE ARCHITECTURAL COMMON DETAIL SET AND REFERENCED ON THE PLAN SHEETS AND DOOR SCHEDULE.

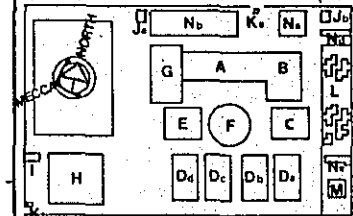
FINISH SCHEDULE

THE FINISH SCHEDULE IS TYPICALLY LOCATED ON EACH FLOOR PLAN SHEET OF EACH BUILDING SET, AND DESCRIBES THE FINISH FOR EACH SPACE ON EACH PLAN. THE MATERIAL LEGEND IS LOCATED IN THE ARCHITECTURAL COMMON DETAIL SET. NOTE THAT THE FINISH SCHEDULE INDICATES FINISH SURFACE ONLY, NOT THE SUBSTRATE TO WHICH IT IS APPLIED. FOR SUBSTRATE MATERIAL SEE THE PARTITION SCHEDULE.

NOTE:

31 MAR 79 GENERAL

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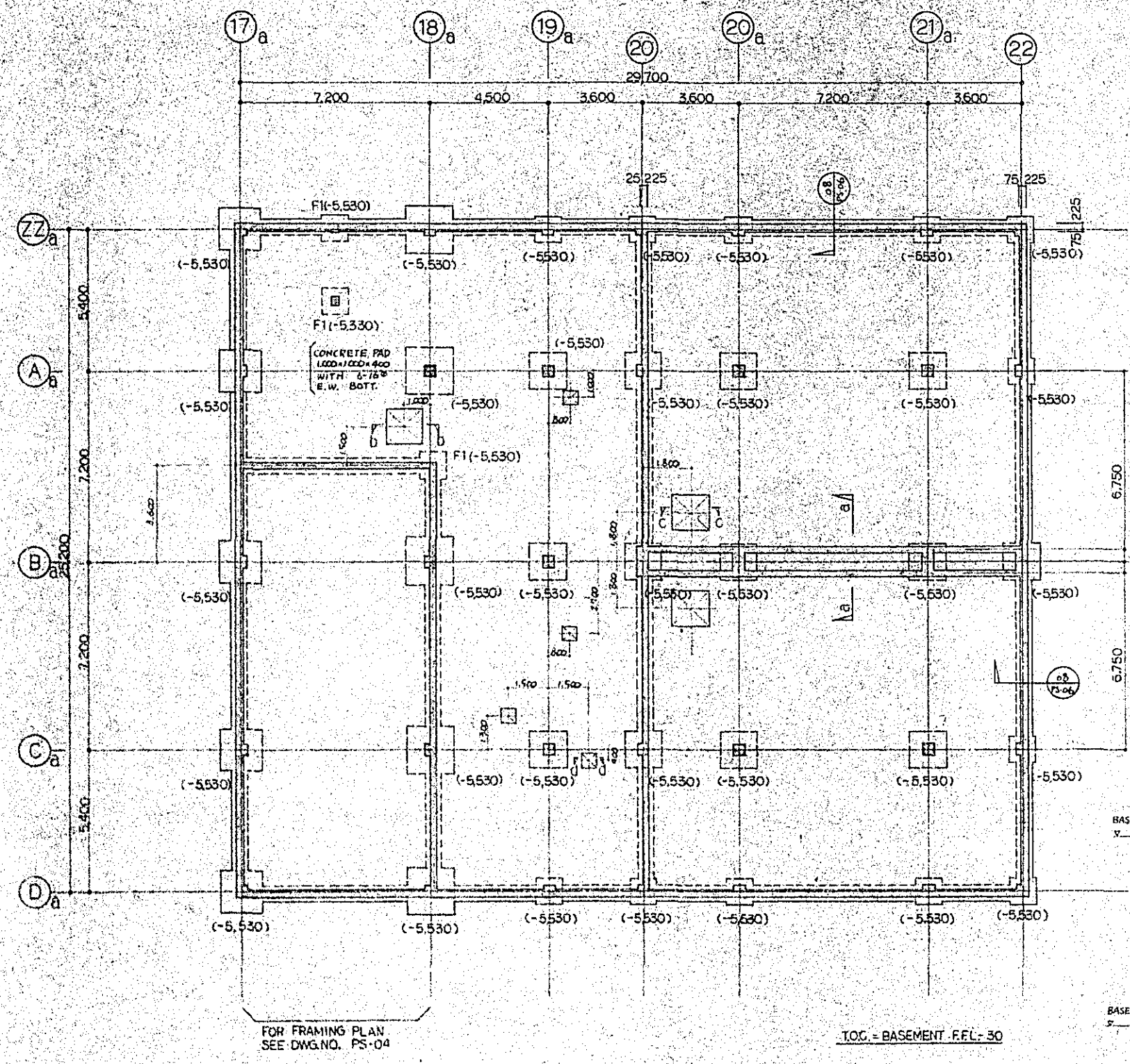
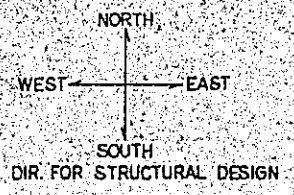
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GENERAL NOTES

SCALE: NS DWG. NO. PG 02

JOB NO.

REF. NO.

DATE 31 JAN 79 DRAWN BY [Signature] CHECKED BY [Signature]

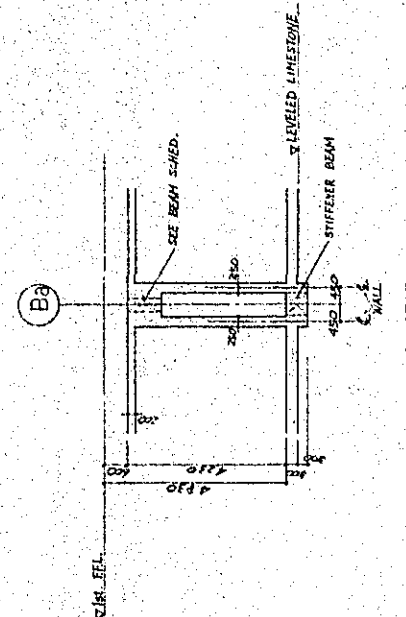


01 FOUNDATION PLAN
PS-01

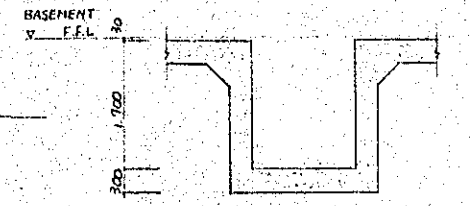
FOR FRAMING PLAN
SEE DWG. NO. PS-04

TOC = BASEMENT F.F.L. - 30

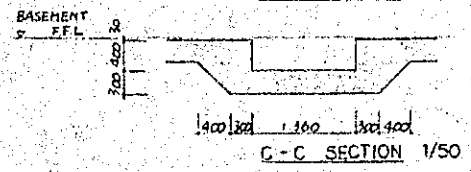
- NOTE:
1. (---) DENOTES BOTTOM OF FTG. EL. FROM 1st F.F.L.
 2. EXT. WALL THICKNESS 300
 - INT. WALL THICKNESS 250
 - SLAB THICKNESS 300
 - UON.
 - FOR REINF. SEE DWG. NO. PS-06



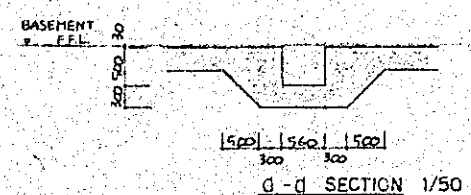
a-a SECTION



b-b SECTION 1/50




c-c SECTION 1/50



d-d SECTION 1/50

14 JUN 79	MAY 1979 H.Q. MEETING
REVISIONS:	

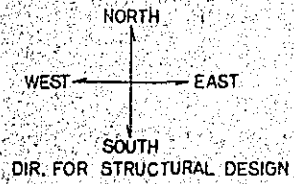

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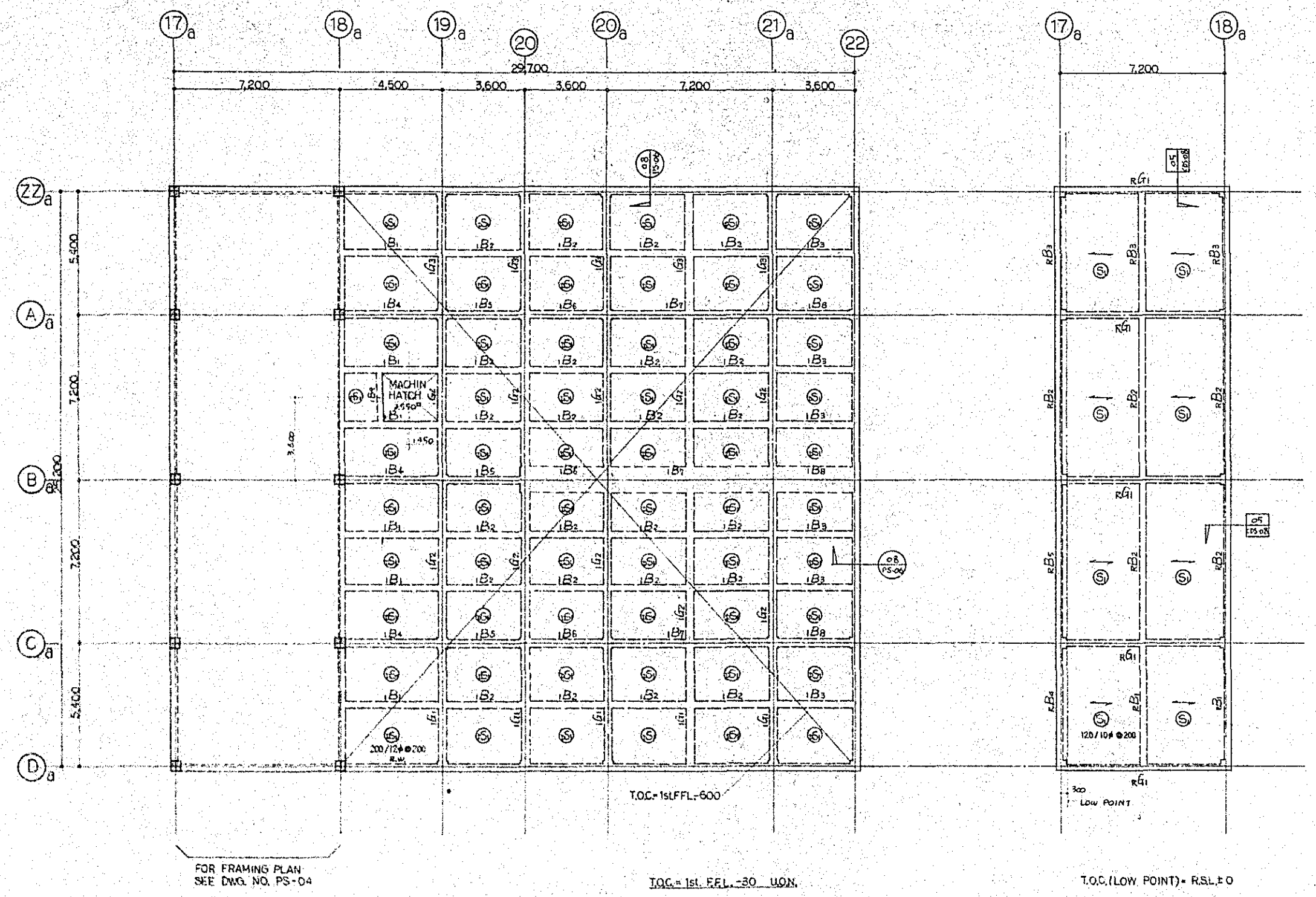
TITLE: BUILDING-P.
 FOUNDATION PLAN

SCALE: 1/100	DWG. NO. PS-01
JOB NO.	
REF. NO.	
DATE: 31 JAN 79	DRAWN: CHECKED:

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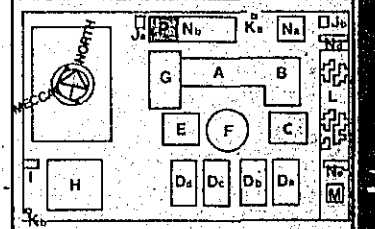
NOTE:
1. | INDICATES DIR. OF MAIN REINFORCEMENT IN SLAB.



01 PS-02 1st FLOOR FRAMING PLAN

02 PS-02 ROOF FLOOR FRAMING PLAN

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TOKYO, JAPAN

TITLE: BUILDING - P
1st. FLOOR AND ROOF
FRAMING PLAN

SCALE: 1/100	DWG. NO.
JOB NO.	PS-02
REF. NO.	
DATE: 31 JAN. 79	DRAWN: [Signature]
	CHECKED: [Signature]

وزارة المعارف • المعهد الفني للإلكترونيات • المملكة العربية السعودية



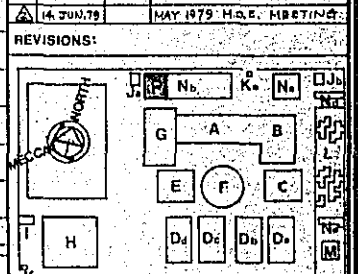
COLUMN SCHEDULE

LEVEL	COLUMN & FOOTING	Zz a				Aa				Ba				Ca				Da																
		17a	18a	19a	20	20a	21a	22	17a	18a	19a	20	20a	21a	22	17a	18a	19a	20	20a	21a	22	17a	18a	19a	20	20a	21a	22					
RSL	COL. SIZE A/B	450/450	450/450					450/450	450/450					450/450	450/450			450/450	450/450					450/450	450/450									
	VERT. REINF.	4-25 ^Ø	4-25 ^Ø					4-25 ^Ø	4-25 ^Ø					4-25 ^Ø	4-25 ^Ø			4-25 ^Ø	4-25 ^Ø					4-25 ^Ø	4-25 ^Ø									
	TIES	Ø250	Ø250					Ø250	Ø250					Ø250	Ø250			Ø250	Ø250					Ø250	Ø250									
	TYPE	A	A					A	A					A	A			A	A					A	A									
BASEMENT FFL	COL. SIZE A/B	450/450											450/450	450/450					450/450	450/450									450/450					
	VERT. REINF.	12-25 ^Ø	12-25 ^Ø	6-25 ^Ø				8-25 ^Ø	12-25 ^Ø	12-25 ^Ø	8-25 ^Ø		8-25 ^Ø	12-25 ^Ø	12-25 ^Ø	8-25 ^Ø	8-25 ^Ø	12-25 ^Ø	12-25 ^Ø	8-25 ^Ø		8-25 ^Ø	12-25 ^Ø	12-25 ^Ø	8-25 ^Ø	12-25 ^Ø	12-25 ^Ø	8-25 ^Ø	8-25 ^Ø					
	TIES	Ø200											Ø200	Ø100			Ø100	Ø100			Ø200								Ø200					
	TYPE	I	I	D				D	I	I	D		D	I	I	D	E		E	I	I	D		D	I	I	D		D					
BOTTOM OF COL.																																		
DOWELS		12-25 ^Ø	12-25 ^Ø	8-25 ^Ø				8-25 ^Ø	12-25 ^Ø	12-25 ^Ø	8-25 ^Ø		8-25 ^Ø	12-25 ^Ø	12-25 ^Ø	8-25 ^Ø	8-25 ^Ø	12-25 ^Ø	12-25 ^Ø	8-25 ^Ø		8-25 ^Ø	12-25 ^Ø	12-25 ^Ø	8-25 ^Ø	12-25 ^Ø	12-25 ^Ø	8-25 ^Ø						
COLUMN & FOOTING	SIZE	A	1.600	1.800	1.000			1.000	1.000	1.600	1.800	1.400		1.400	1.400	1.000	1.600	1.800	1.400		1.400	1.400	1.600	1.800	1.400		1.400	1.000	1.600	1.800	1.000		1.000	1.000
		B	1.600	1.800	1.000			1.000	1.000	1.600	1.800	1.400		1.400	1.400	1.000	1.600	1.800	1.400		1.400	1.400	1.600	1.800	1.400		1.400	1.000	1.600	1.800	1.000		1.000	1.000
	REINF	Ø16 ^Ø	Ø16 ^Ø	Ø16 ^Ø				Ø16 ^Ø	Ø16 ^Ø	Ø16 ^Ø	Ø16 ^Ø	Ø16 ^Ø		Ø16 ^Ø	Ø16 ^Ø	Ø16 ^Ø	Ø16 ^Ø	Ø16 ^Ø	Ø16 ^Ø	Ø16 ^Ø	Ø16 ^Ø		Ø16 ^Ø	Ø16 ^Ø	Ø16 ^Ø	Ø16 ^Ø	Ø16 ^Ø		Ø16 ^Ø	Ø16 ^Ø	Ø16 ^Ø	Ø16 ^Ø	Ø16 ^Ø	

NOTE:
 COLUMN SCHEDULE:
 1. FOR DETAILS RELATING TO COL. SCHED. SEE COMMON DETAILS.
 BEAM AND GIRDER SCHEDULE:
 1. FOR DETAILS RELATING TO BEAM/GIRDER SCHED. SEE COMMON DETAILS.
 2. FOR 2 ADDITIONAL TOP BARS NOT SHOW ON BEAM/GIRDER SCHED. SEE COMMON DETAILS CDS-05.
 3. FOR ASTERISK (***) AND ALPHABET (a) SEE COMMON DETAILS CDS-05.

BEAM AND GIRDER SCHEDULE

BEAM MARK	SIZE		REINFORCEMENT				STIRRUPS		ARRANGEMENT		REMARKS
	W	D	TOP BARS SOUTH OR NORTH OR WEST OR EAST	BOTTOM BARS LONG	SHORT	SIZE	TYPE	SPACING EA END UO.N.	SOUTH WEST	NORTH EAST	
RB1	300	600	1-25 ^Ø	1-25 ^Ø	2-25 ^Ø	1-25 ^Ø	Ø250				
RB2	300	600	1-25 ^Ø	1-25 ^Ø	2-25 ^Ø	1-25 ^Ø	Ø250			TOP BAR CONT FROM RB1	
RB3	300	600	1-25 ^Ø	1-25 ^Ø	2-25 ^Ø	1-25 ^Ø	Ø250				
RB4	300	1500	1-25 ^Ø	1-25 ^Ø	1-25 ^Ø	1-25 ^Ø	Ø250				
RB5	300	600	1-25 ^Ø	1-25 ^Ø	2-25 ^Ø	1-25 ^Ø	Ø250				
RB6	300	600	1-25 ^Ø	1-25 ^Ø	2-25 ^Ø	3-25 ^Ø	Ø200				
IB1	300	600	1-25 ^Ø	1-25 ^Ø	2-25 ^Ø	1-25 ^Ø	Ø250				
IB2	800	600									
IB3	300	600									
IB4	350	800	1-25 ^Ø								
IB5			1-25 ^Ø				Ø250				
IB6			4-25 ^Ø	2-25 ^Ø	1-25 ^Ø		Ø250			C ADDL TOP BAR 1-25 ^Ø , L=2.300	
IB7			4-25 ^Ø	3-25 ^Ø	1-25 ^Ø		Ø150				
IB8	350	900	1-25 ^Ø	2-25 ^Ø	1-25 ^Ø		Ø250			C ADDL TOP BAR 1-25 ^Ø , L=2.300	
IB9	350	450		2-25 ^Ø			Ø250			A A	
IG1	350	400	1-25 ^Ø	4-25 ^Ø	2-25 ^Ø	2-25 ^Ø	Ø200				
IG2	350	400		4-25 ^Ø	2-25 ^Ø	2-25 ^Ø	Ø200				
IG3	350	400		1-25 ^Ø	2-25 ^Ø	2-25 ^Ø	Ø200				



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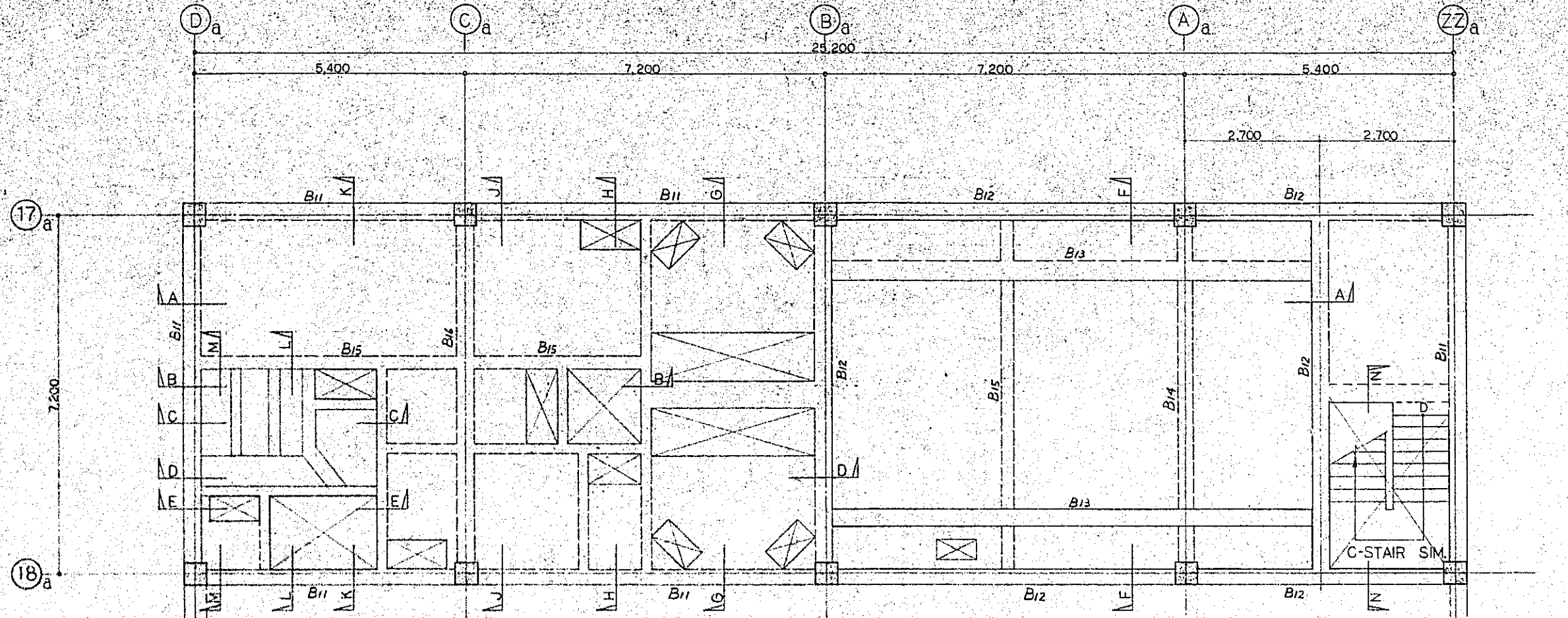
AZUSA SEKKEI CO., LTD.
 2-27-3 NISHIGOTANDA, SHINAGAWA-KU,
 TOKYO, JAPAN

TITLE: BUILDING-P
 COLUMN AND BEAM
 SCHEDULE

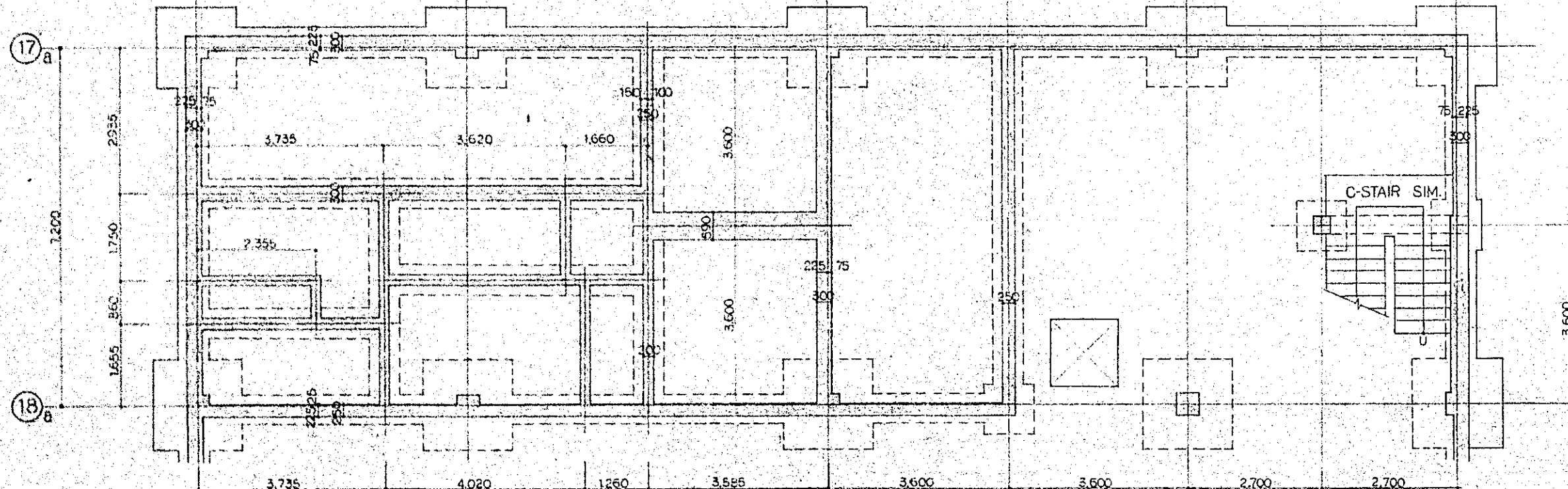
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JOB NO.	PS-03
REF. NO.	
DATE	DRAWN
31.JAN.79	(Signature)
CHECKED	(Signature)

المملكة العربية السعودية
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 في الرياض

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 SCALE=1:600 0 5 10 20 30M



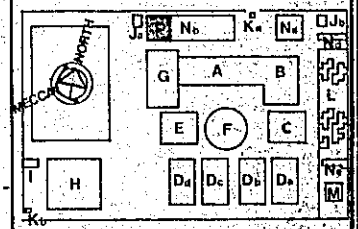
01 PARTIAL FRAMING PLAN
 PS-04 1st. FLOOR
 1/50



02 PARTIAL FRAMING PLAN
 PS-04 BASEMENT FLOOR
 1/50

NOTE

REVISIONS:



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 MINISTRY OF EDUCATION

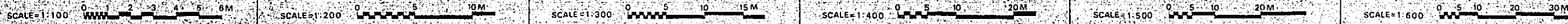
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AZUSA SEKKEI CO., LTD.
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 TOKYO, JAPAN

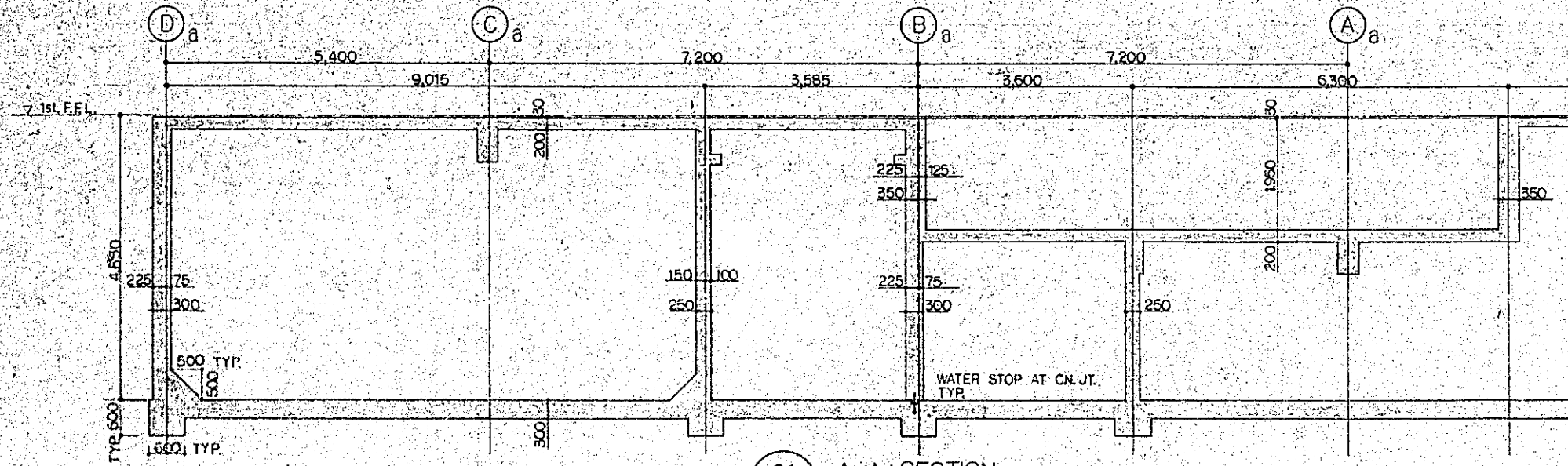
TITLE: BUILDING-P
 PARTIAL FRAMING
 PLAN

SCALE: 1/50	DWG. NO. PS-04
JOB NO.	
REF. NO.	
DATE: 31 JAN 79	DRAWN: (Signature)
CHECKED: (Signature)	CHECKED: (Signature)

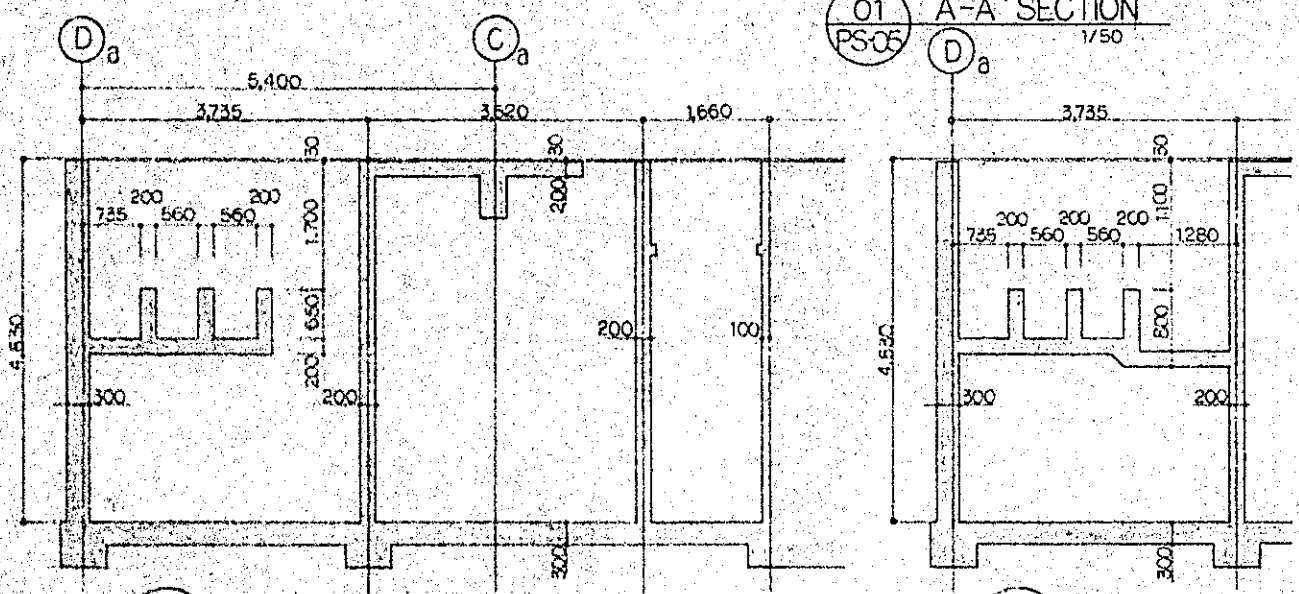
المعهد الفني للإلكترونيات وزارة المعارف المملكة العربية السعودية
 Azusa Sekkei Co., Ltd.



- NOTE:
1. FOR PEA GRAVEL FOR TANKS OR OTHER EQUIPMENTS SEE ARCH. DWGS.
 2. FOR WALL AND SLAB ANCHORAGE AND LAP LENGTH, SEE DWG. CDS-08.
 3. FOR WALL AND SLAB REINF. SHOWN ON THIS DWG., SEE DWG. PS-06.

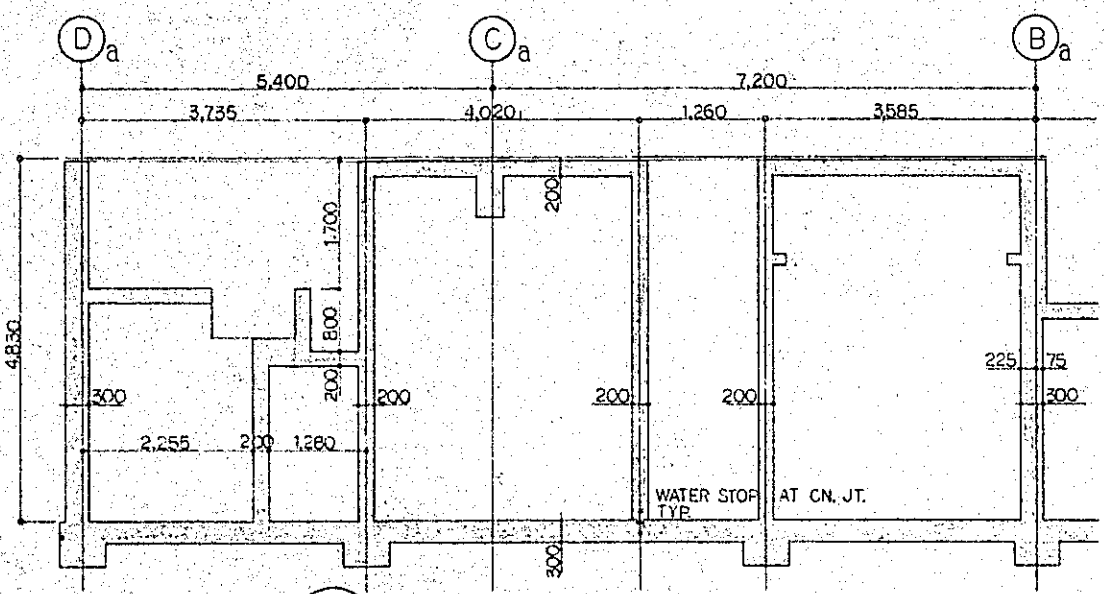


01 A-A SECTION
PS-05
1/50

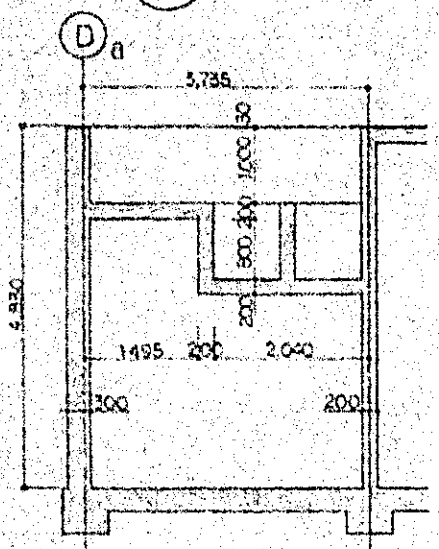


02 B-B SECTION
PS-05
1/50

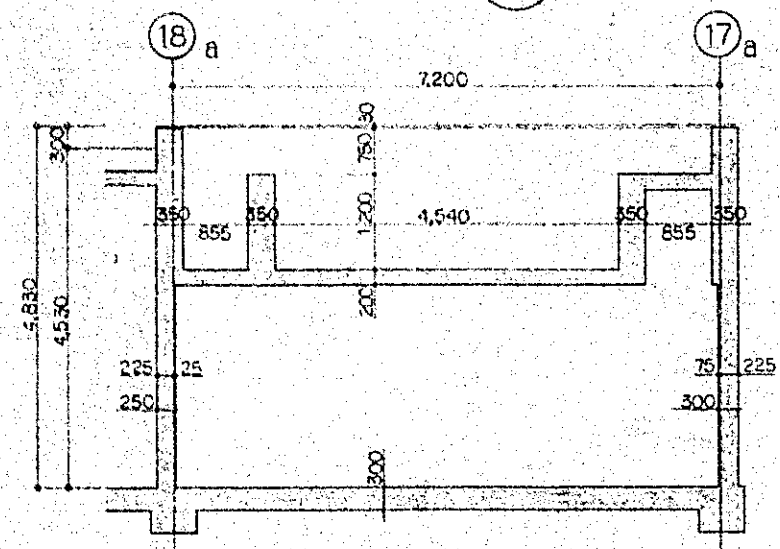
03 C-C SECTION
PS-05
1/50



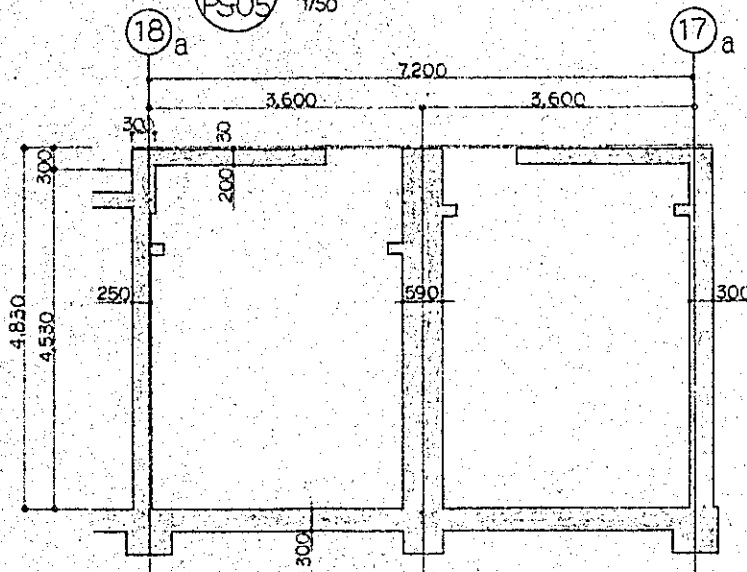
04 D-D SECTION
PS-05
1/50



05 E-E SECTION
PS-05
1/50

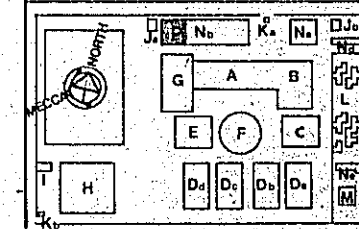


06 F-F SECTION
PS-05
1/50



07 G-G SECTION
PS-05
1/50

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TITLE: BUILDING-P
SECTIONAL DETAILS

SCALE: 1/50	DWG. NO. PS-05
JOB NO.	
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DATE: 31 JAN 79	CHECKED: [Signature]

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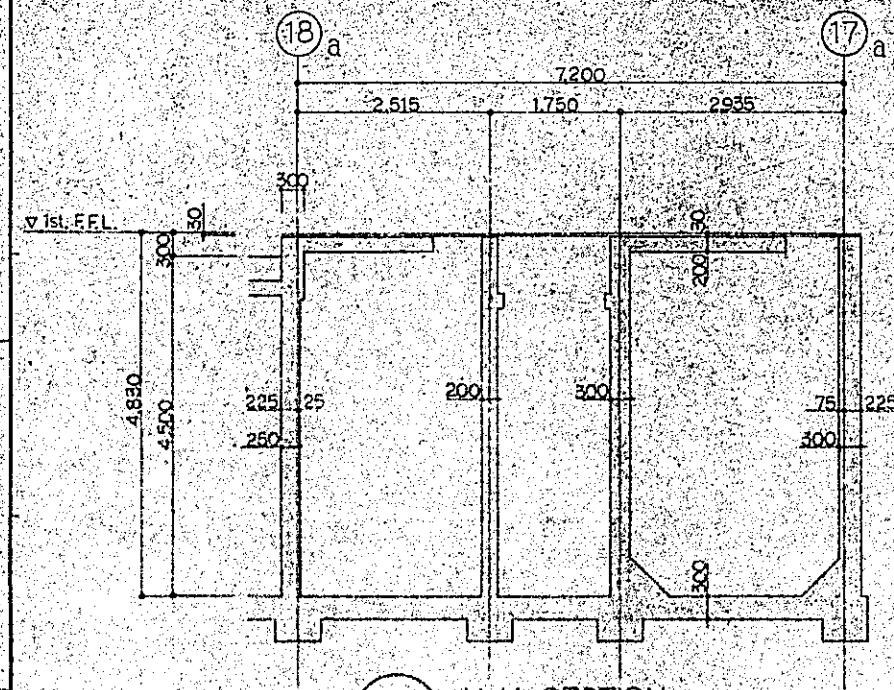
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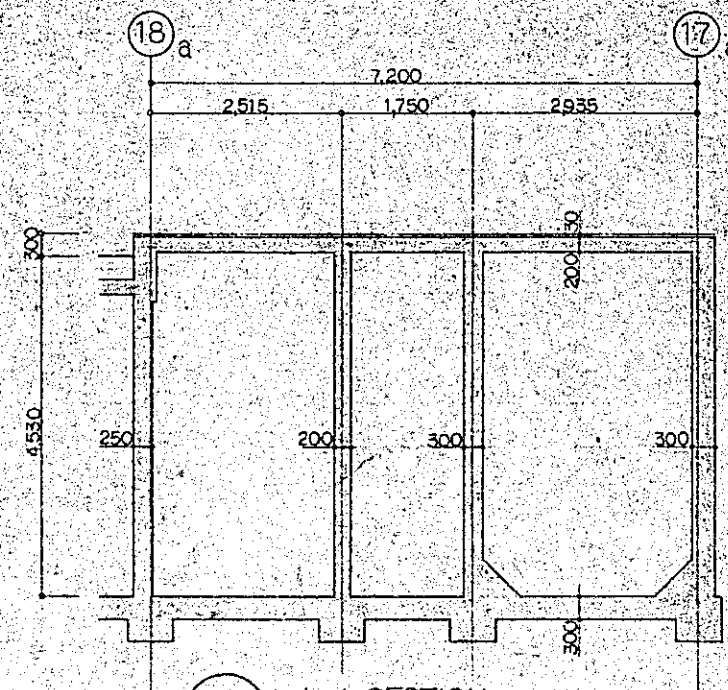
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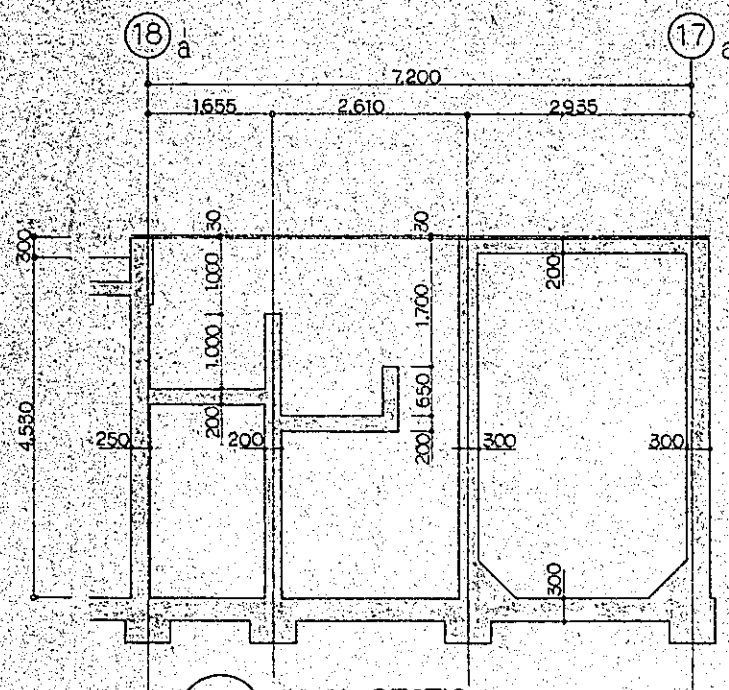
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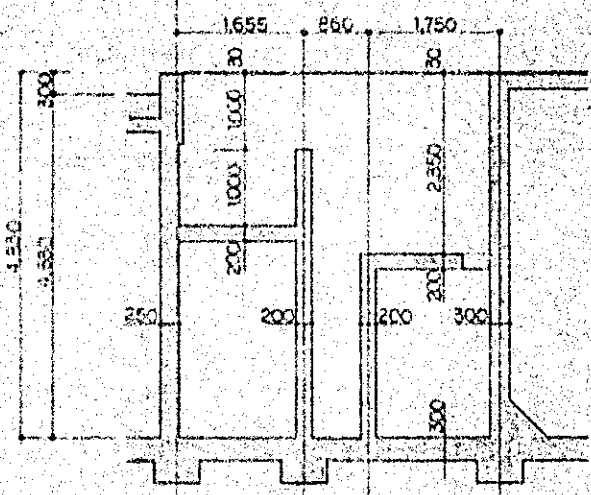
01 H-H SECTION
PS-06



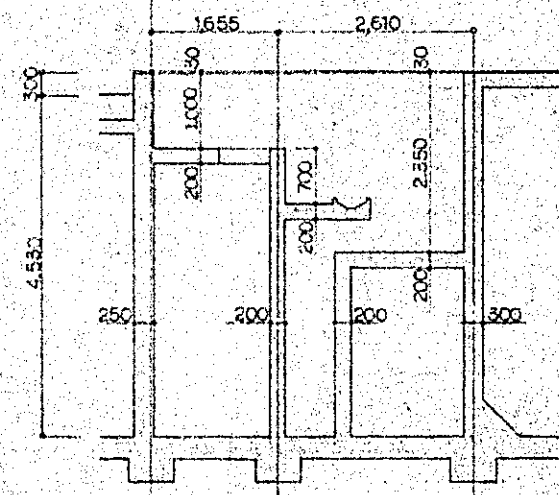
02 J-J SECTION
PS-06



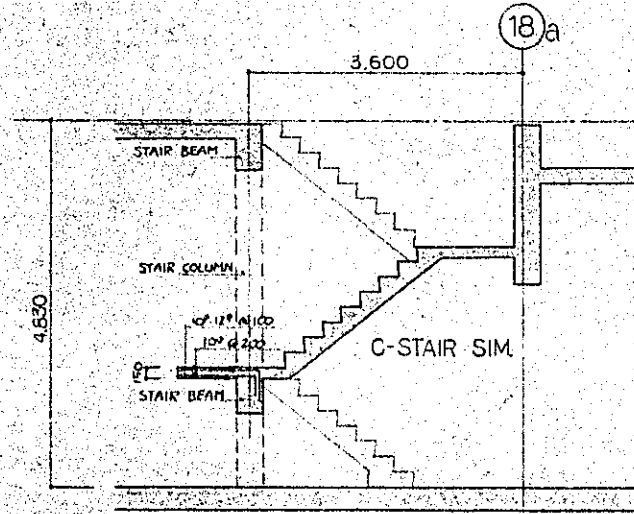
03 K-K SECTION
PS-06



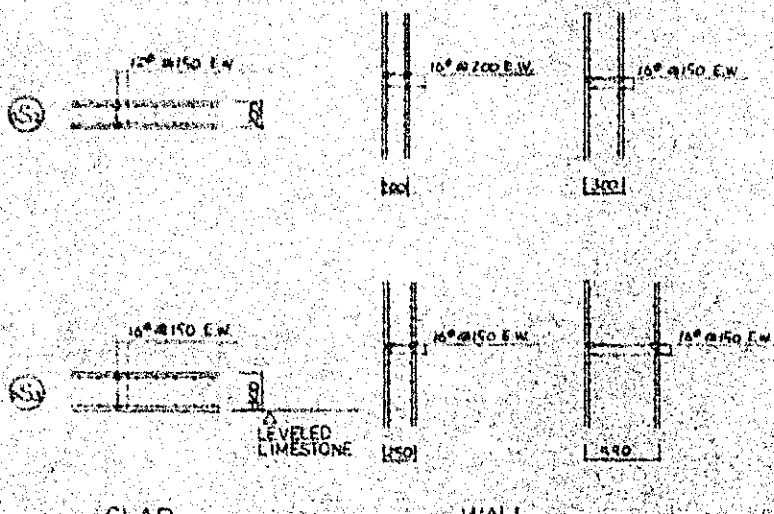
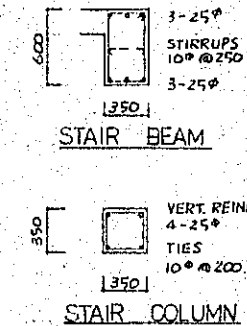
04 L-L SECTION
PS-06



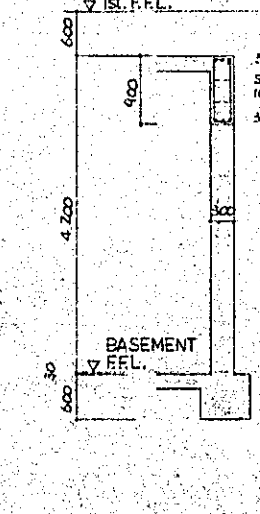
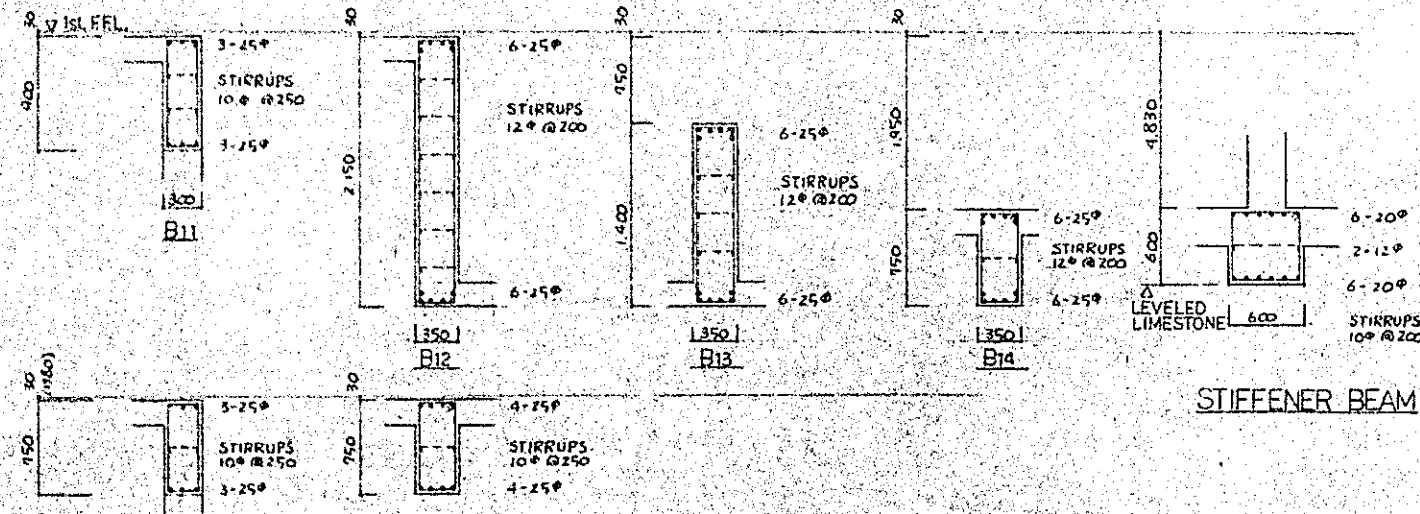
05 M-M SECTION
PS-06



06 N-N SECTION
PS-06



07 SLAB WALL BEAM
SCHED.
PS-06
1/30



08 SECTION
PS-06
1/50

NOTE:
1. FOR PEA GRAVEL FOR TANKS OR OTHER EQUIPMENTS SEE ARCH. DWGS.
2. FOR WALL AND SLAB ANCHORAGE AND LAP LENGTH SEE DWG. CDS-08.

REVISIONS:

NO.	DATE	DESCRIPTION



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TITLE: BUILDING-P
SECTIONAL DETAILS

SCALE: 1/50	DWG. NO. PS-06
JOB NO.	
REF. NO.	
DATE: 31. JAN. 79	DRAWN: [Signature]
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المملكة العربية السعودية
وزارة المعارف

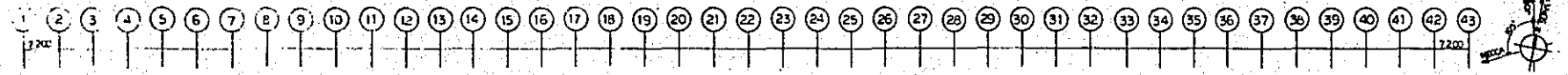


TECHNICAL ELECTRONICS INSTITUTE IN RIYADH المعهد الفني للإلكترونيات في الرياض VOLUME 2

THE KINGDOM OF SAUDI ARABIA
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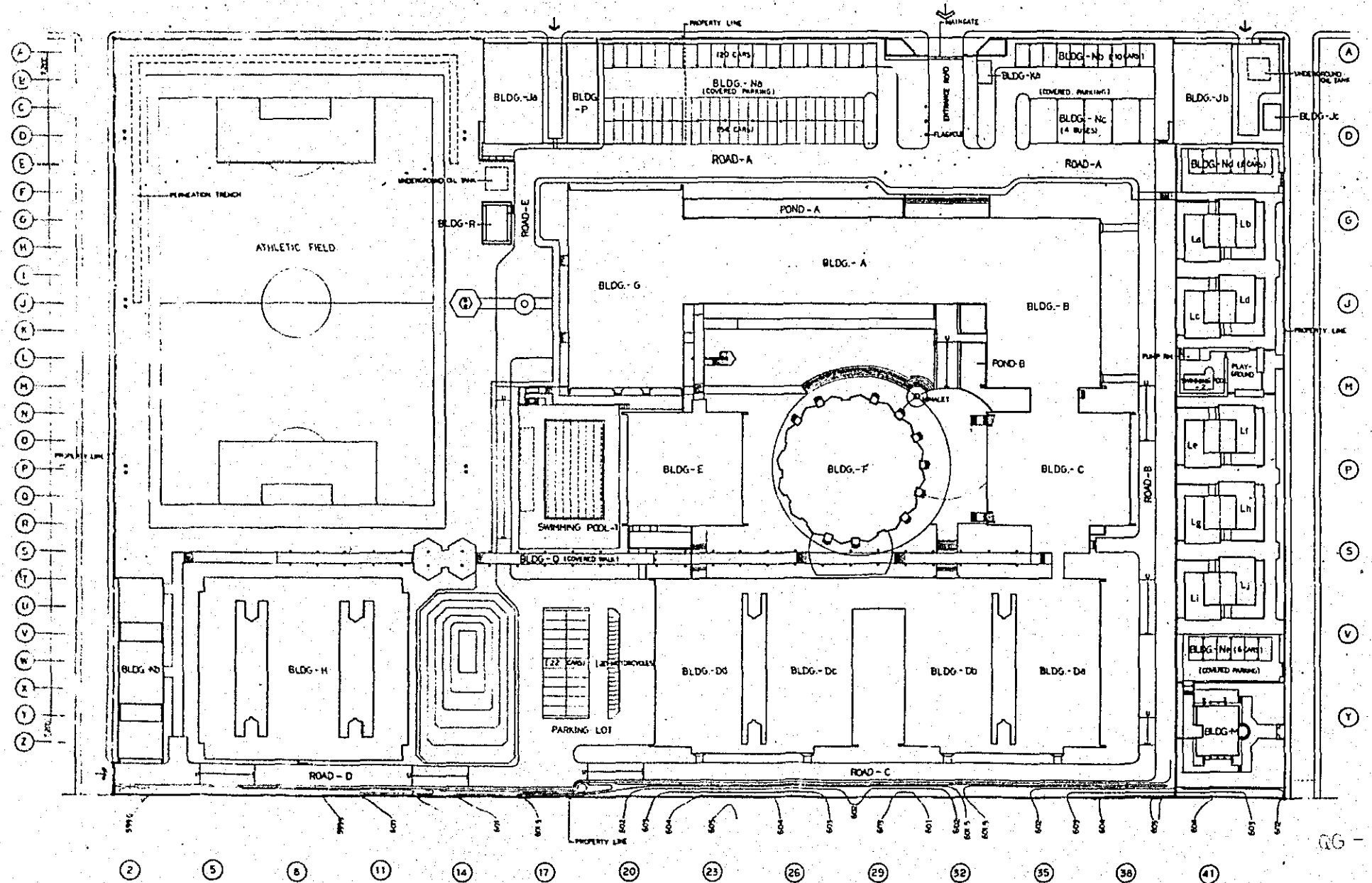
BUILDING-Q COVERED WALK

AZUSA SEKKEI CO., LTD.
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- ADMINISTRATION
- GENERAL EDUCATION
- AUDITORIUM / COMPUTER
- TECHNICAL EDUCATION
- CAFETERIA / LIBRARY
- MOSQUE
- GYMNASIUM
- DORMITORY
- GENERATOR
- GUARD / SERVANT
- TEACHERS' RESIDENCES
- DIRECTOR'S VILLA
- COVERED PARKING
- TREATMENT PLANT
- COVERED WALK
- GAS STORAGE

A
B
C
D
E
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G
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M
N
P
Q
R



SCALE=1:100

SCALE=1:200

SCALE=1:300

SCALE=1:400

SCALE=1:500

SCALE=1:600

INDEX OF DRAWING VOLUMES TECHNICAL ELECTRONICS INSTITUTE IN RIYADH

VOLUME 1	VOLUME 2	VOLUME 3	VOLUME 4
ARCHITECTURAL	STRUCTURAL	MECHANICAL	ELECTRICAL

INDEX OF DRAWINGS FOR BUILDING-Q (COVERED WALK)

GENERAL	
COVER SHEET	QG-01
GENERAL NOTES	QG-02

ARCHITECTURAL (VOLUME 1)	
PLAN, SECTIONS, ELEVATIONS & DETAILS	QA-01

STRUCTURAL (VOLUME 2)	
FOUNDATION PLAN 1 / 100	QS-01
ROOF FRAMING PLAN 1 / 100	QS-02
BEAM AND COLUMN SCHEDULE	QS-03

GENERAL INFORMATION

THE DRAWINGS ARE DIVIDED INTO FOUR VOLUMES FOR EASE OF HANDLING. IN ORDER TO SATISFY THE REQUIREMENT FOR FLEXIBILITY IN TERMS OF ISOLATING INDIVIDUAL BUILDINGS, THE DRAWINGS IN VOLUME I, II, III AND IV ARE ORGANIZED INTO BUILDING SETS.

EACH SET HAS ITS OWN COVER SHEET, INDEX AND INTERNAL NUMBERING SYSTEM, AND INCLUDES ALL DISCIPLINES' DRAWINGS FOR THAT BUILDING. EACH SET CAN BE COMPLETED BY COMBINING WITH THE COMMON DETAIL SET. FOR CONVENIENCE WHEN BOUND INTO VOLUMES.

GRID DIMENSIONING SYSTEM

THE METRIC SYSTEM HAS BEEN USED THROUGHOUT THE DOCUMENTS. THE LARGE MODULAR GRID REPRESENTS THE 7.2 STRUCTURAL GRID. THE ENTIRE SITE IS KEYED TO THIS GRID BY ALPHABET AND NUMBER. THE SMALLER MODULE IS THE 0.9 PLANNING GRID. TYPICALLY, ALL PARTITIONS ARE CENTERED ON THIS GRID. ELEMENTS NOT INDICATED AS BEING CENTERED ON EITHER GRID ARE DIMENSIONED TO THE CLOSEST GRID LINE. IF NO DIMENSION APPEARS, THE ELEMENT IS TO BE CENTERED ON THE GRID LINE.

PARTITION SCHEDULE

A PARTITION SCHEDULE IS LOCATED ON EACH FLOOR PLAN SHEET. PARTITION TYPES ARE IDENTIFIED ON THE PLANS BY USE OF A SYMBOL ADJACENT TO EACH PARTITION OR BY A NOTE IN THE SCHEDULE IDENTIFYING GROUPS OF PARTITIONS. THE PARTITION TYPES ARE LOCATED IN THE ARCHITECTURAL COMMON DETAIL SET.

INTERIOR COLUMN AND EXTERIOR WALL IS CONSIDERED A PARTITION TYPE AND IS ACCOMMODATED IN THE PARTITION NOTES AND SCHEDULE.

DOOR SCHEDULE

THE DOOR SCHEDULE IS TYPICALLY INDICATED ON EACH DOOR ON EACH FLOOR PLAN SHEET WITHIN EACH BUILDING SET. THE DOOR TYPES ARE LOCATED IN THE ARCHITECTURAL COMMON DETAIL SET. WHEN DOORS ARE CALLED IN NOTES, DOORS ARE TO BE IDENTIFIED BY THE NAMES AND NUMBERS OF THE ROOMS SERVED. FOR ROOMS CONTAINING MORE THAN ONE DOOR, SUFFIXAL LETTERS ARE USED (a, b, c, etc.). HARDWARE FOR EACH DOOR IS DESCRIBED IN THE HARDWARE TYPES BOUND IN THE SPECIFICATIONS. THE HARDWARE GROUPS ARE INDICATED ON EACH DOOR ON EACH FLOOR PLAN WITHIN EACH BUILDING SET. DOOR FRAME PROFILES ARE ALSO DRAWN IN THE ARCHITECTURAL COMMON DETAIL SET AND REFERENCED ON THE PLAN SHEETS AND DOOR SCHEDULE.

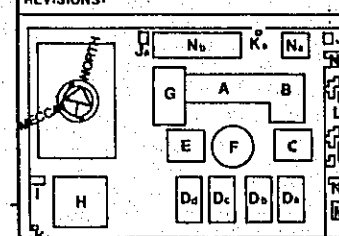
FINISH SCHEDULE


THE FINISH SCHEDULE IS TYPICALLY LOCATED ON EACH FLOOR PLAN SHEET OF EACH BUILDING SET, AND DESCRIBES THE FINISH FOR EACH SPACE ON EACH PLAN. THE MATERIAL LEGEND IS LOCATED IN THE ARCHITECTURAL COMMON DETAIL SET. NOTE THAT THE FINISH SCHEDULE INDICATES FINISH SURFACE ONLY, NOT THE SUBSTRATE TO WHICH IT IS APPLIED. FOR SUBSTRATE MATERIAL SEE THE PARTITION SCHEDULE.

NOTE:

NO.	REVISIONS	DATE

REVISIONS:



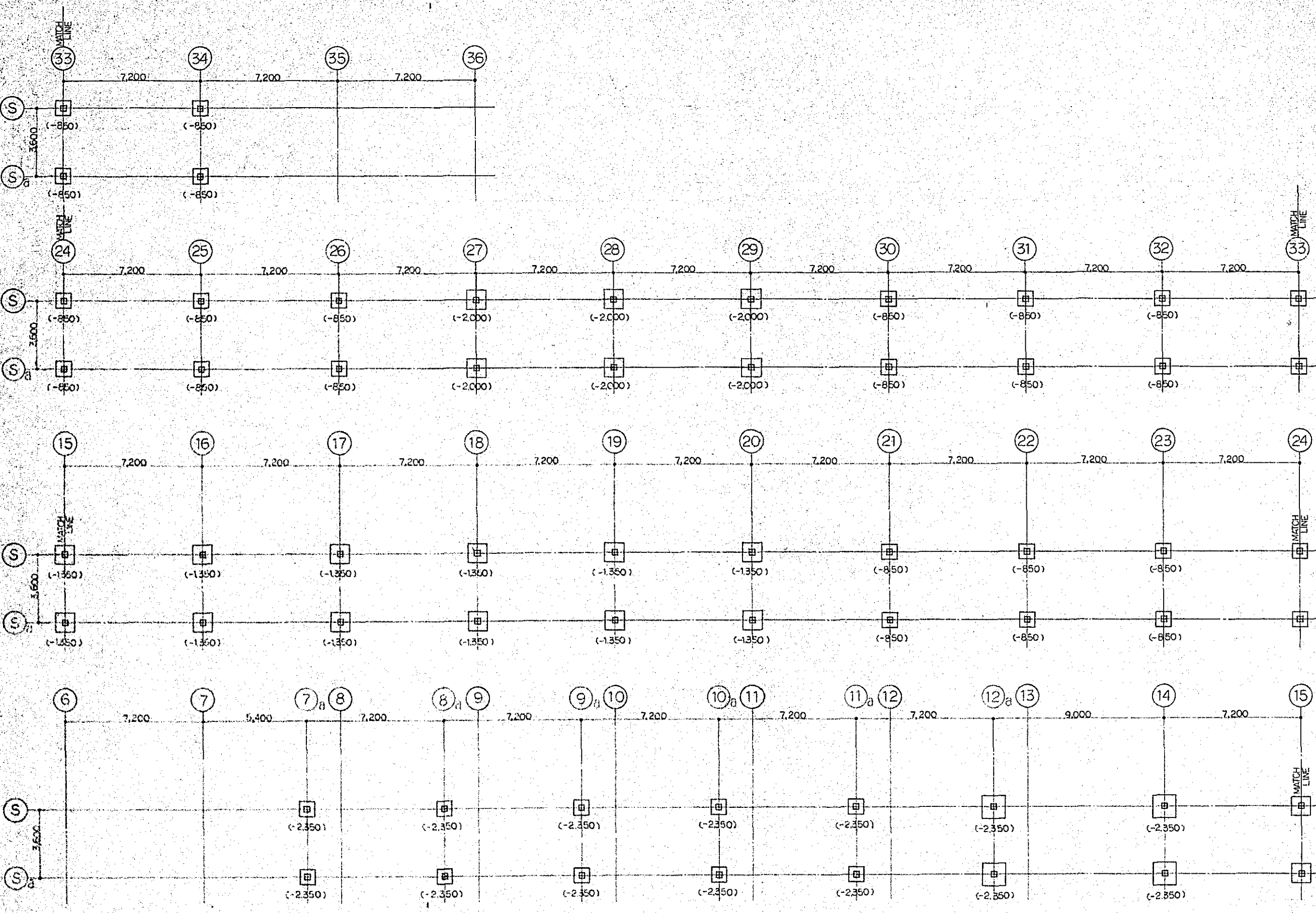
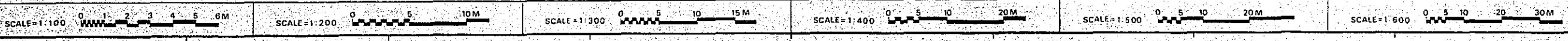

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TITLE:
GENERAL NOTES

SCALE:	DWG. NO.	
JOB NO.	QG - 02	
REF. NO.		
DATE	DRAWN	CHECKED
21 JAN 75	(Signature)	(Signature)



01 FOUNDATION PLAN
QS-01

NOTE:
1. (---) DENOTES BOTTOM OF FTG. EL. FROM 1st. FFL.
1st. FFL. = 602.35
②① ~ ②④

REVISIONS:	14 JUN 79	MAY 1979 M.O.E. MEETING

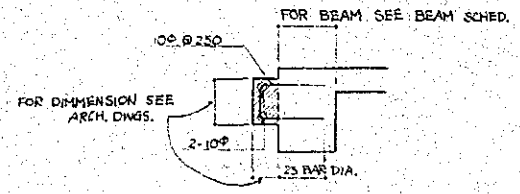
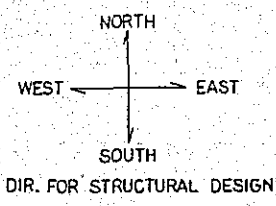
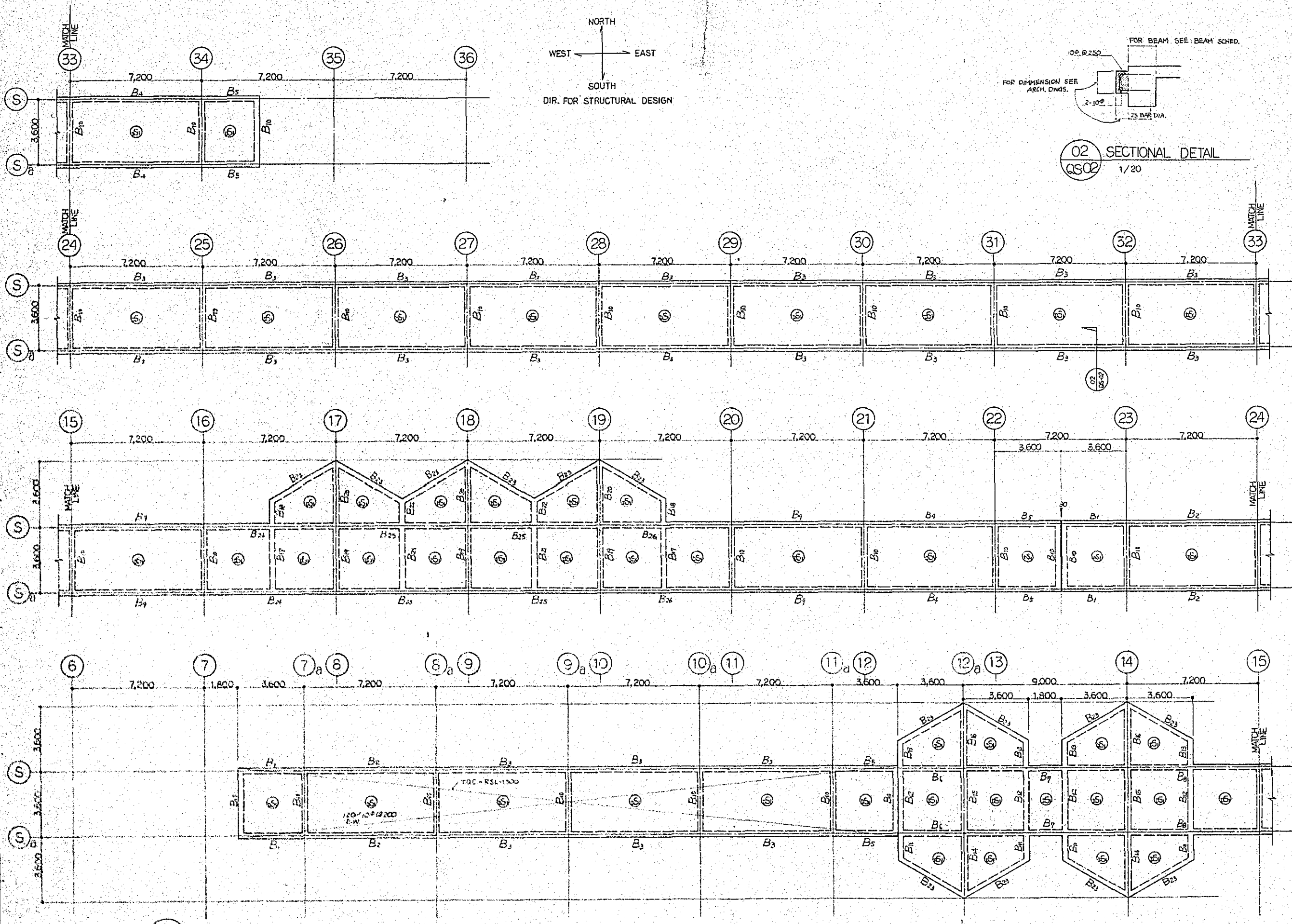
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 AZUSA SEKKEI CO., LTD.
 2-27-3 NISHIGOTANDA, SHINAGAWA-KU, TOKYO, JAPAN

TITLE: BUILDING-Q
FOUNDATION PLAN

SCALE: 1/100	DWG. NO. QS-01
JOB NO.	
REF. NO.	
DATE: 31 JAN 79	CHECKED: [Signature]

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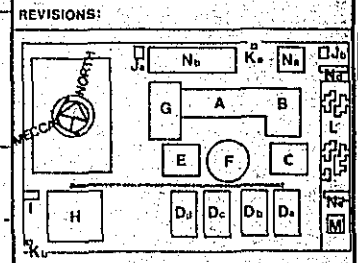


02 SECTIONAL DETAIL
QS02 1/20

NOTE:
1. | INDICATES DIR. OF MAIN REINFORCEMENT IN SLAB.
2. T.O.C. (LOW POINT) = RSL ± 0

01 ROOF FRAMING PLAN
QS02

NO.	REVISIONS



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IN RIYADH

AZUSA SEKKEI CO. LTD.
2-27-3 NISHIGOTANDA, SHINAGAWA-KU,
TOKYO, JAPAN

TITLE: BUILDING - Q
ROOF FRAMING PLAN

SCALE: 1/100	DWG. NO. QS-02
JOB NO.	
REF. NO.	
DATE: 31 JAN 77	CHECKED: 14

المملكة العربية السعودية • وزارة المعارف • المعهد الفني للإلكترونيات في الرياض



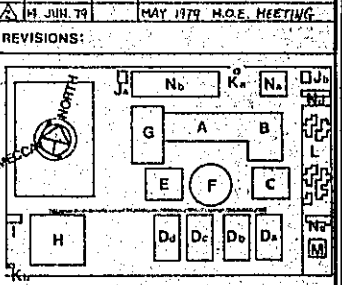
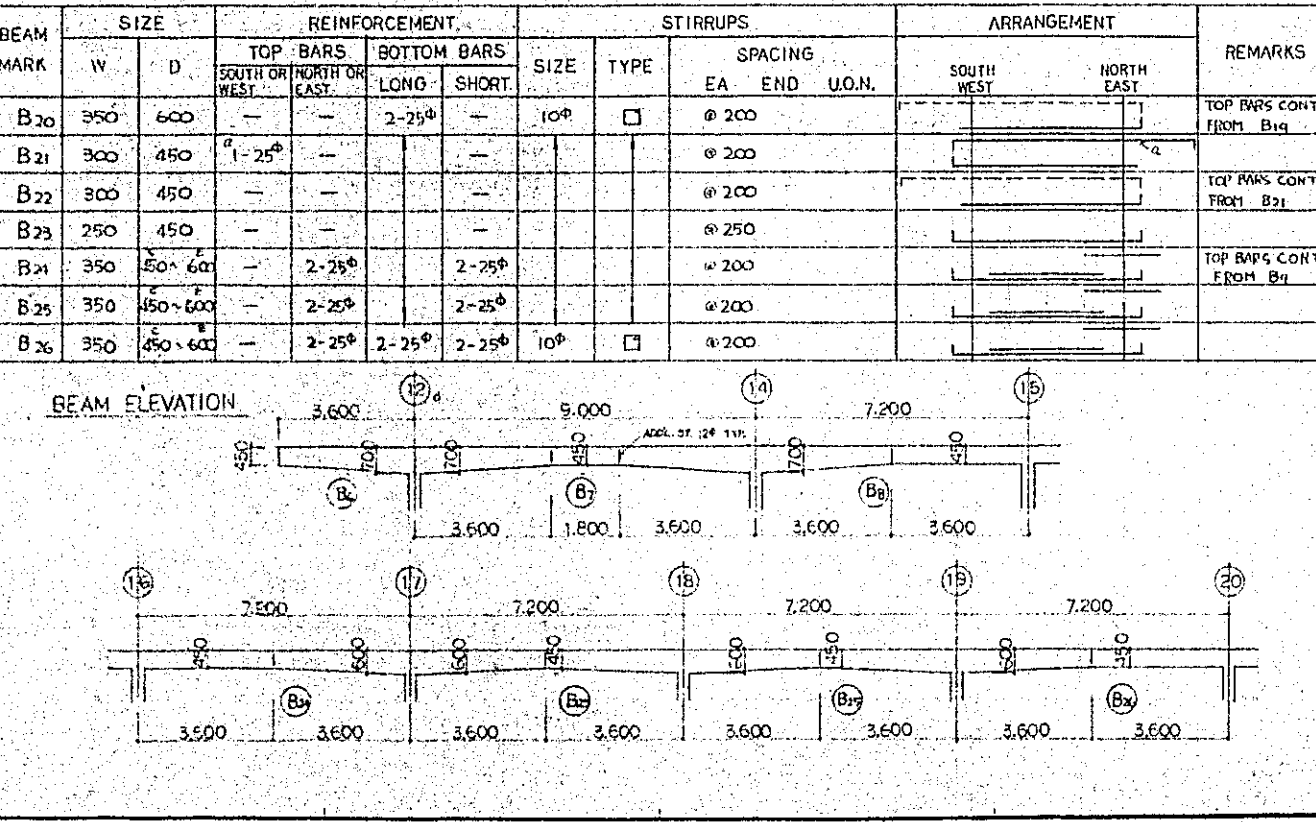
COLUMN SCHEDULE

LEVEL	COLUMN & FOOTING	7a	8a	9a	10a	11a	12a	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
R.SL				150																								
3.420	COL. SIZE A/B	300/300																									300/300	
	VERT. REINF.	8-20 ^φ																										8-20 ^φ
	TIES	φ200																										φ200
	TYPE	D																										D
BOTTOM OF COL.				1.852																								
DOWELS		8-20 ^φ																										8-20 ^φ
3.420	SIZE	A	800			800	1200	1200	1000					1000	800					800	1000			1000	800			800
		B	800				800	1200	1200	1000					1000	800					800	1000			1000	800		
	T	400				400	400	400	400					400	400					400	400			400	400			400
	REINF.	4-16 ^φ E.W.				4-16 ^φ E.W.	7-16 ^φ E.W.	7-16 ^φ E.W.	6-16 ^φ E.W.					6-16 ^φ E.W.	4-16 ^φ E.W.					4-16 ^φ E.W.	6-16 ^φ E.W.			6-16 ^φ E.W.	4-16 ^φ E.W.			4-16 ^φ E.W.

NOTE:
 COLUMN SCHEDULE
 1. FOR DETAILS RELATING TO COL. SCHED. SEE COMMON DETAILS.
 BEAM AND GIRDER SCHEDULE
 1. FOR DETAILS RELATING TO BEAM & GIRDER SCHED. SEE COMMON DETAILS.
 2. FOR 2 ADDITIONAL TOP BARS NOT SHOW ON BEAM & GIRDER SCHED. SEE COMMON DETAILS CDS-03.
 3. FOR ASTERISK(*,**) AND ALPHABET(a,b) SEE COMMON DETAILS CDS-03

BEAM AND GIRDER SCHEDULE

BEAM MARK	SIZE		REINFORCEMENT			STIRRUPS			ARRANGEMENT		REMARKS
	W	D	TOP BARS SOUTH OR WEST	TOP BARS NORTH OR EAST	BOTTOM BARS LONG SHORT	SIZE	TYPE	SPACING EA. END U.O.N.	SOUTH WEST	NORTH EAST	
B1	350	450	2-25 ^φ	—	2-25 ^φ	10 ^φ	□	φ200			
B2			—	1-25 ^φ	1-25 ^φ						TOP BARS CONT. FROM B1
B3			—	1-25 ^φ	1-25 ^φ						TOP BARS CONT. FROM B2
B4			—	2-25 ^φ	1-25 ^φ						TOP BARS CONT. FROM B3
B5		450	—	—	2-25 ^φ						TOP BARS CONT. FROM B4
B6	350	700	1-25 ^φ	—	3-25 ^φ						TOP BARS CONT. FROM B5
B7	350	700	—	4-25 ^φ	3-25 ^φ	1-25 ^φ					TOP BARS CONT. FROM B6
B8	350	700	—	2-25 ^φ	3-25 ^φ	1-25 ^φ					TOP BARS CONT. FROM B7
B9	350	450	—	2-25 ^φ	2-25 ^φ	1-25 ^φ					TOP BARS CONT. FROM B8
B10	300		—	—	—						
B11			—	—	—						
B12			—	—	—						
B13	300	450	—	—	—						
B14	350	600	2-25 ^φ	—	—						TOP BARS CONT. FROM B14
B15	350	600	—	2-25 ^φ	—						TOP BARS CONT. FROM B15
B16	350	600	—	—	—						
B17	300	450	—	—	—						
B18	300	450	—	—	—						
B19	350	600	2-25 ^φ	—	2-25 ^φ	10 ^φ	□	φ200			



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TITLE BUILDING-Q
 BEAM AND COLUMN SCHEDULE

SCALE:	DWG. NO.	
JOB NO.	QS-03	
REF. NO.		
DATE	DRAWN	CHECKED
3/ JAN '79		

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المملكة العربية السعودية
وزارة المعارف

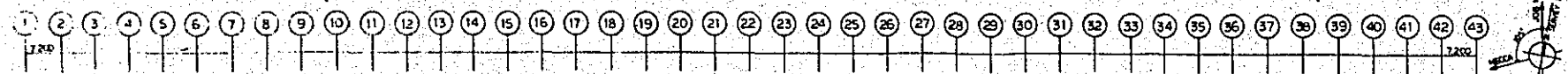


TECHNICAL ELECTRONICS INSTITUTE IN RIYADH المعهد الفني للإلكترونيات في الرياض VOLUME 2

THE KINGDOM OF SAUDI ARABIA
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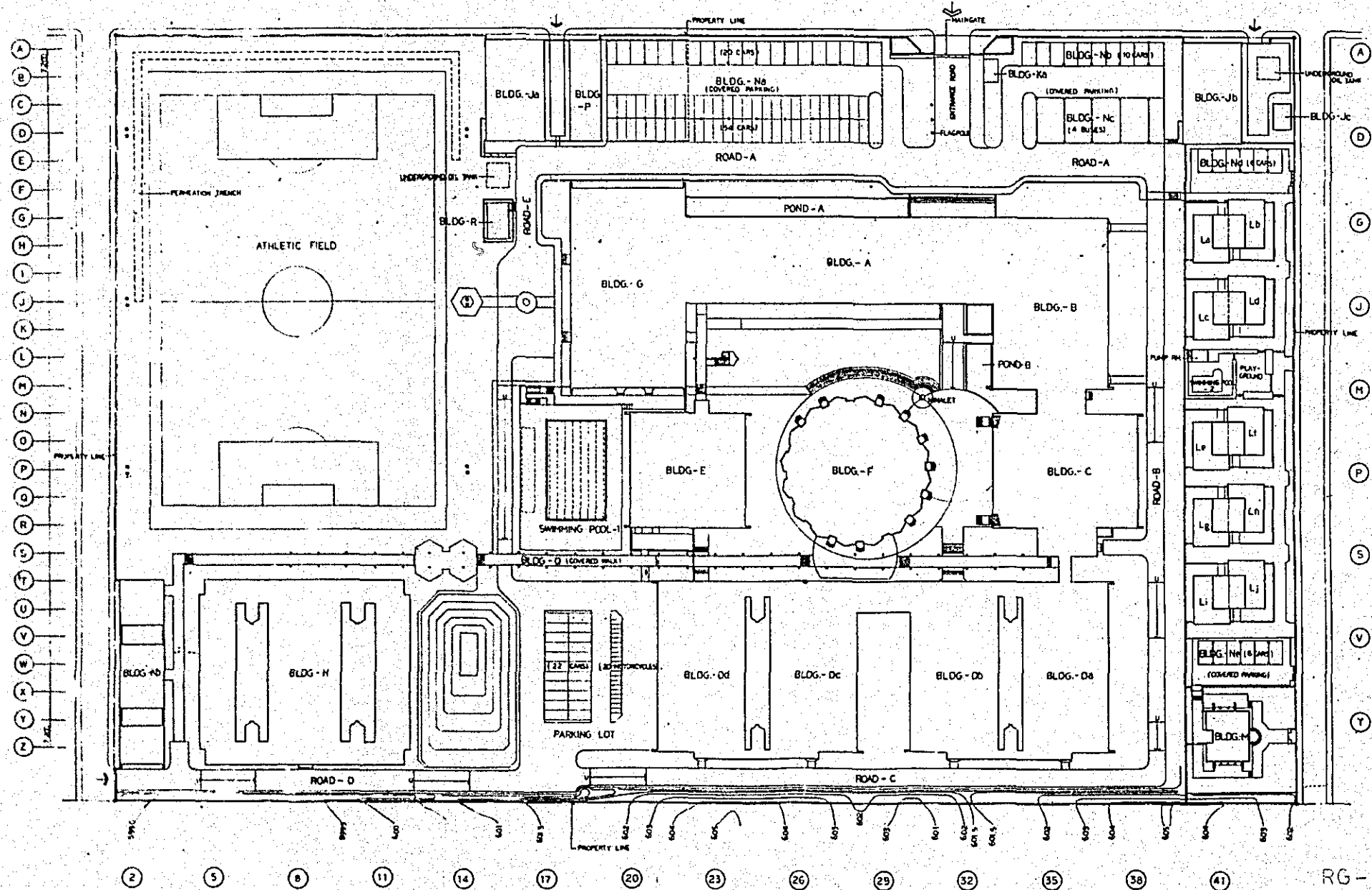
BUILDING-R GAS STORAGE

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- ADMINISTRATION
- GENERAL EDUCATION
- AUDITORIUM / COMPUTER
- TECHNICAL EDUCATION
- CAFETERIA / LIBRARY
- MOSQUE
- GYMNASIUM
- DORMITORY
- GENERATOR
- GUARD / SERVANT
- TEACHERS' RESIDENCES
- DIRECTOR'S VILLA
- COVERED PARKING
- TREATMENT PLANT
- COVERED WALK
- GAS STORAGE

A
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Q
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SCALE=1:100 0 1 2 3 4 5 6 M

SCALE=1:200 0 5 10 M

SCALE=1:300 0 5 10 15 M

SCALE=1:400 0 5 10 20 M

SCALE=1:500 0 5 10 20 M

SCALE=1:600 0 5 10 20 30 M

INDEX OF DRAWING VOLUMES TECHNICAL ELECTRONICS INSTITUTE IN RIYADH

VOLUME 1	VOLUME 2	VOLUME 3	VOLUME 4
ARCHITECTURAL	STRUCTURAL	MECHANICAL	ELECTRICAL

INDEX OF DRAWINGS FOR BUILDING-R (GAS STORAGE)

GENERAL		
COVER SHEET	RG-01	
GENERAL NOTES	RG-02	
ARCHITECTURAL (VOLUME 1)		
PLAN, SECTIONS, ELEVATIONS & DETAILS	RA-01	
STRUCTURAL (VOLUME 2)		
FRAMING PLAN AND SECTIONAL DETAILS 1 / 50	RS-01	
PLUMBING (VOLUME 3)		
GAS SYSTEM DIAGRAM	RP-01	
GAS TANK AND PIPING DETAIL 1 / 20	RP-02	
MOTOR POWER AND WIRING PLAN 1 / 100	RP-03	
GAS SYSTEM CONTROL CIRCUIT	RP-04	

GENERAL INFORMATION

THE DRAWINGS ARE DIVIDED INTO FOUR VOLUMES FOR EASE OF HANDLING. IN ORDER TO SATISFY THE REQUIREMENT FOR FLEXIBILITY IN TERMS OF ISOLATING INDIVIDUAL BUILDINGS, THE DRAWINGS IN VOLUME I, II, III AND IV ARE ORGANIZED INTO BUILDING SETS.

EACH SET HAS ITS OWN COVER SHEET, INDEX AND INTERNAL NUMBERING SYSTEM, AND INCLUDES ALL DISCIPLINES' DRAWINGS FOR THAT BUILDING. EACH SET CAN BE COMPLETED BY COMBINING WITH THE COMMON DETAIL SET. FOR CONVENIENCE WHEN BOUND INTO VOLUMES.

GRID DIMENSIONING SYSTEM

THE METRIC SYSTEM HAS BEEN USED THROUGHOUT THE DOCUMENTS. THE LARGE MODULAR GRID REPRESENTS THE 7.2 STRUCTURAL GRID. THE ENTIRE SITE IS KEYED TO THIS GRID BY ALPHABET AND NUMBER. THE SMALLER MODULE IS THE 0.9 PLANNING GRID. TYPICALLY, ALL PARTITIONS ARE CENTERED ON THIS GRID. ELEMENTS NOT INDICATED AS BEING CENTERED ON EITHER GRID ARE DIMENSIONED TO THE CLOSEST GRID LINE. IF NO DIMENSION APPEARS, THE ELEMENT IS TO BE CENTERED ON THE GRID LINE.

PARTITION SCHEDULE

A PARTITION SCHEDULE IS LOCATED ON EACH FLOOR PLAN SHEET. PARTITION TYPES ARE IDENTIFIED ON THE PLANS BY USE OF A SYMBOL ADJACENT TO EACH PARTITION OR BY A NOTE IN THE SCHEDULE IDENTIFYING GROUPS OF PARTITIONS. THE PARTITION TYPES ARE LOCATED IN THE ARCHITECTURAL COMMON DETAIL SET.

INTERIOR COLUMN AND EXTERIOR WALL IS CONSIDERED A PARTITION TYPE AND IS ACCOMMODATED IN THE PARTITION NOTES AND SCHEDULE.

DOOR SCHEDULE

THE DOOR SCHEDULE IS TYPICALLY INDICATED ON EACH DOOR ON EACH FLOOR PLAN SHEET WITHIN EACH BUILDING SET. THE DOOR TYPES ARE LOCATED IN THE ARCHITECTURAL COMMON DETAIL SET. WHEN DOORS ARE CALLED IN NOTES, DOORS ARE TO BE IDENTIFIED BY THE NAMES AND NUMBERS OF THE ROOMS SERVED. FOR ROOMS CONTAINING MORE THAN ONE DOOR, SUFFIXAL LETTERS ARE USED (a, b, c, ETC.). HARDWARE FOR EACH DOOR IS DESCRIBED IN THE HARDWARE TYPES BOUND IN THE SPECIFICATIONS. THE HARDWARE GROUPS ARE INDICATED ON EACH DOOR ON EACH FLOOR PLAN WITHIN EACH BUILDING SET. DOOR FRAME PROFILES ARE ALSO DRAWN IN THE ARCHITECTURAL COMMON DETAIL SET AND REFERENCED ON THE PLAN SHEETS AND DOOR SCHEDULE.

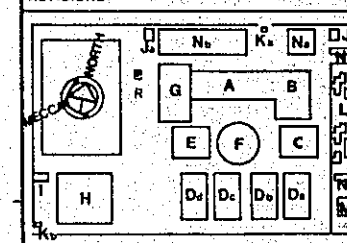
FINISH SCHEDULE

THE FINISH SCHEDULE IS TYPICALLY LOCATED ON EACH FLOOR PLAN SHEET OF EACH BUILDING SET, AND DESCRIBES THE FINISH FOR EACH SPACE ON EACH PLAN. THE MATERIAL LEGEND IS LOCATED IN THE ARCHITECTURAL COMMON DETAIL SET. NOTE THAT THE FINISH SCHEDULE INDICATES FINISH SURFACE ONLY, NOT THE SUBSTRATE TO WHICH IT IS APPLIED. FOR SUBSTRATE MATERIAL SEE THE PARTITION SCHEDULE.

NOTE:

NO.	DATE	BY	DESCRIPTION

REVISIONS:



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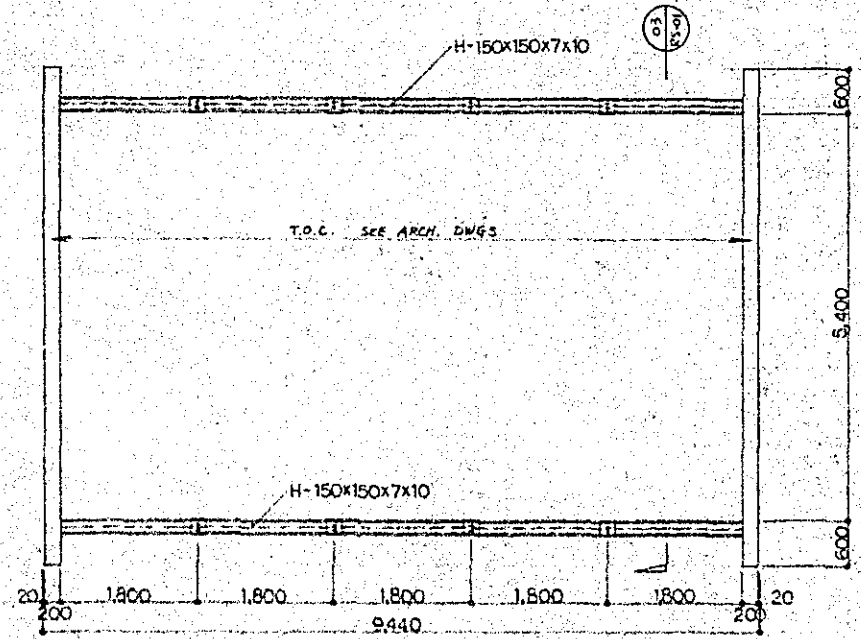
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TOKYO, JAPAN

TITLE:
GENERAL NOTES

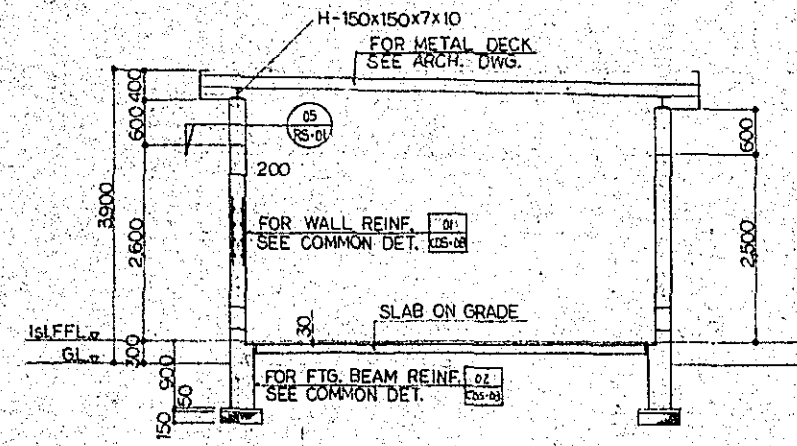
SCALE: NS	DWG NO: RG-02
JOB NO:	
REF. NO:	
DATE: 31 JAN 79	CHECKED: (Signature)

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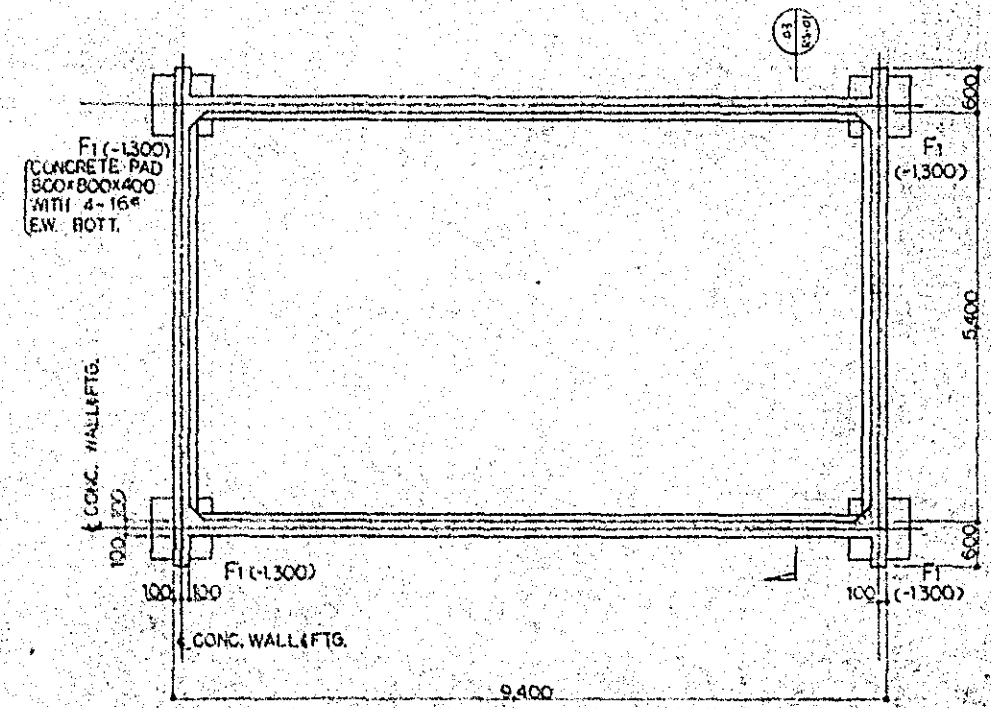
NOTE:
1. FOR SPECIFICATION FOR STRUCTURAL STEEL SHOWN ON THIS DWG. SEE DWG. CDS-02



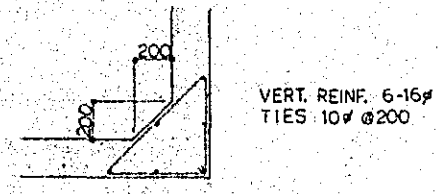
02 ROOF FRAMING PLAN
RS-01 1/50



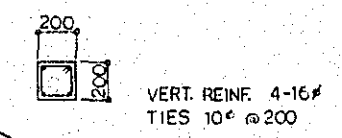
03 SECTION
RS-01 1/50



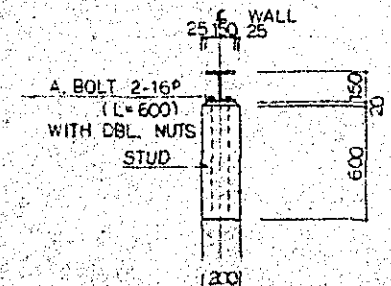
01 FOUNDATION PLAN
RS-01 1/50



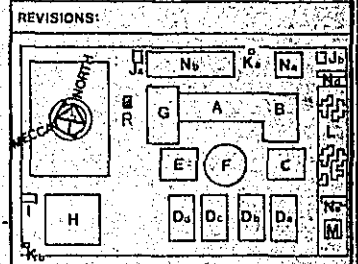
04 SECTIONAL DETAIL
RS-01 COLUMN SCHED.
1/20



05 SECTIONAL DETAIL
RS-01 STUD SCHED.
1/20



06 ANCHOR BOLTS
RS-01 DETAIL
1/20



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TOKYO, JAPAN.

TITLE: BUILDING-R
FRAMING PLAN AND
SECTIONAL DETAILS

SCALE: 1/50, 1/20 DWG. NO.
JOB NO. RS-01

REF. NO. DATE 21 JUN 74

