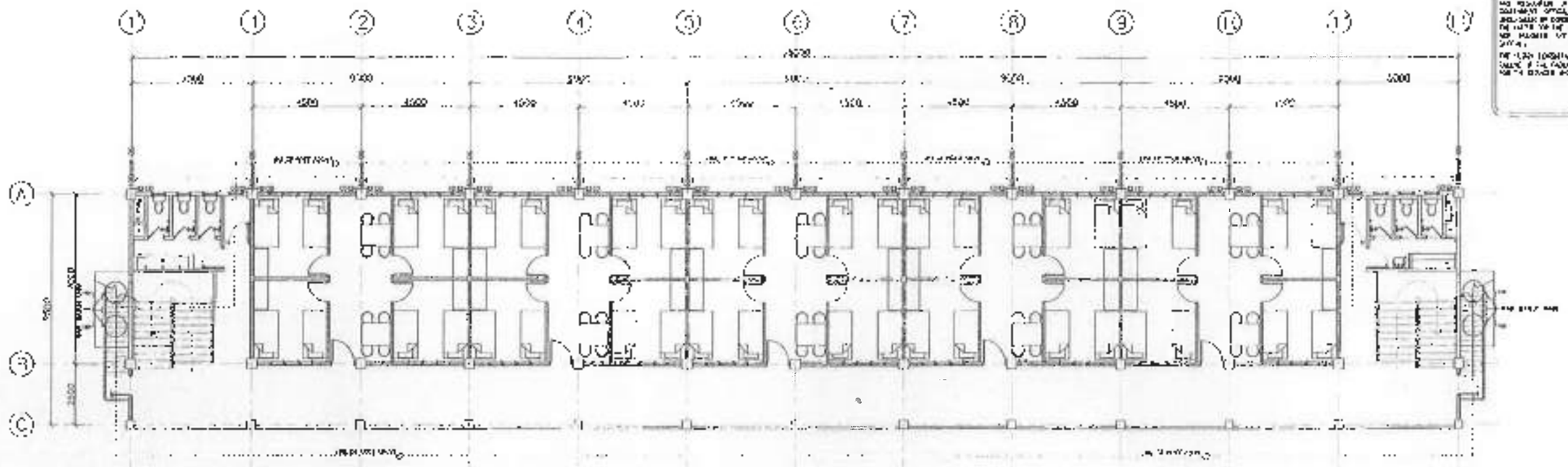
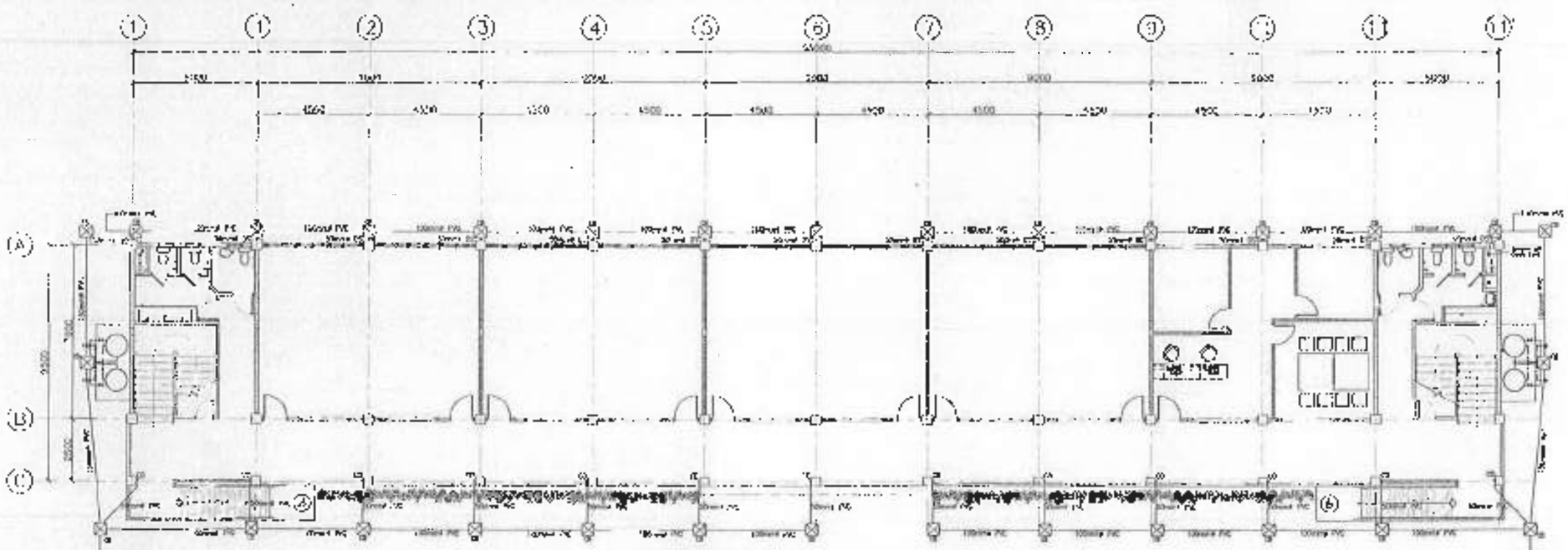
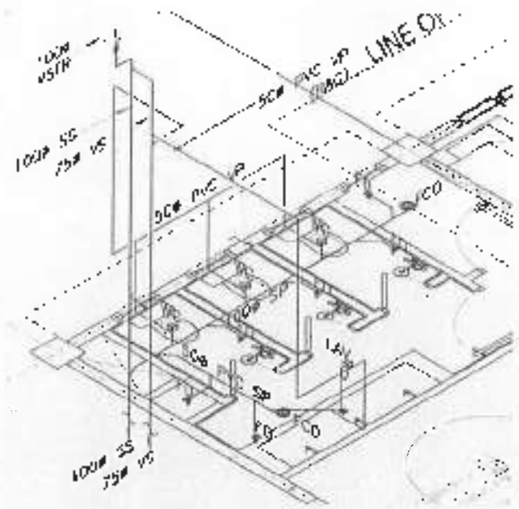


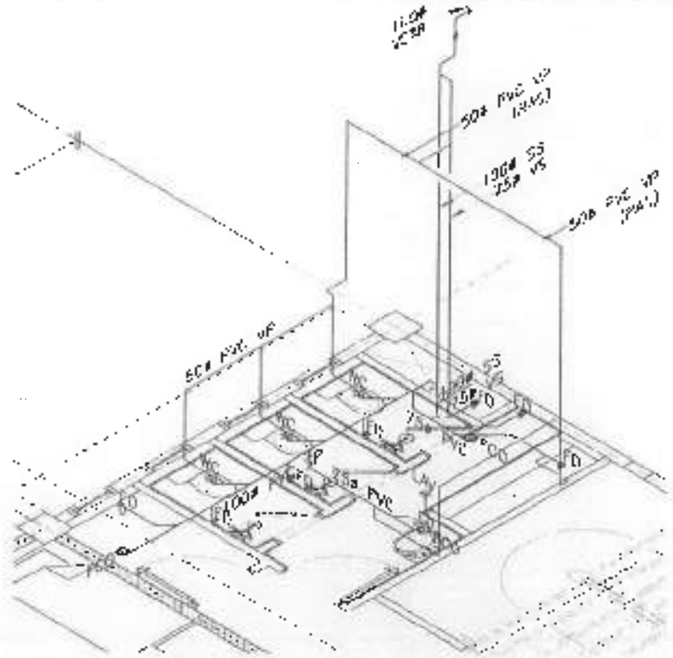
SECOND FLOOR CANOPY DRAIN LAYOUT



ENGINEER'S OFFICE
GROUND FLOOR STORM DRAIN LAYOUT



LADIES TOILET
SECOND FLOOR WASTE WATER ISOMETRIC LAYOUT



MENS TOILET
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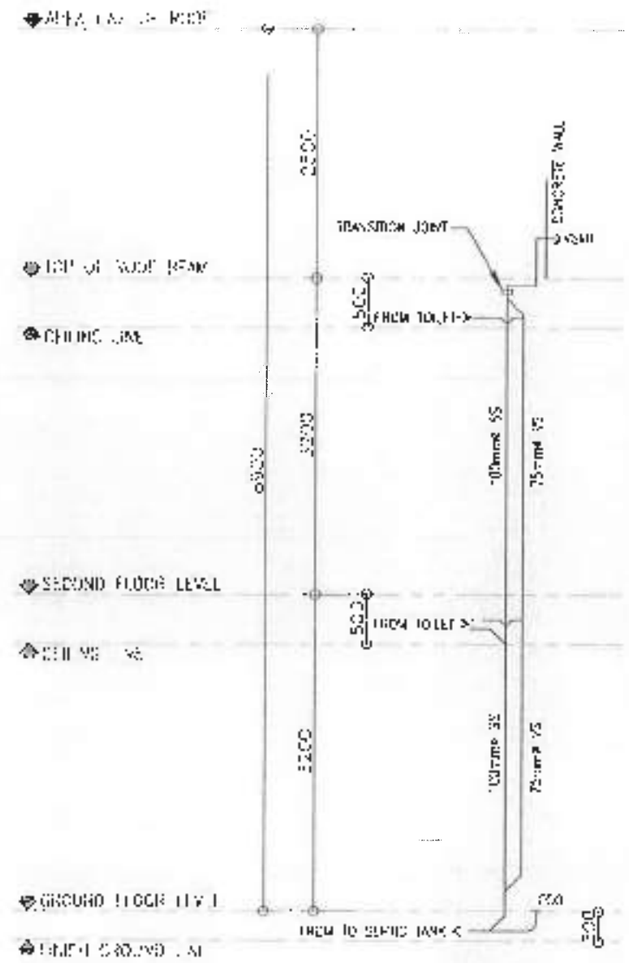
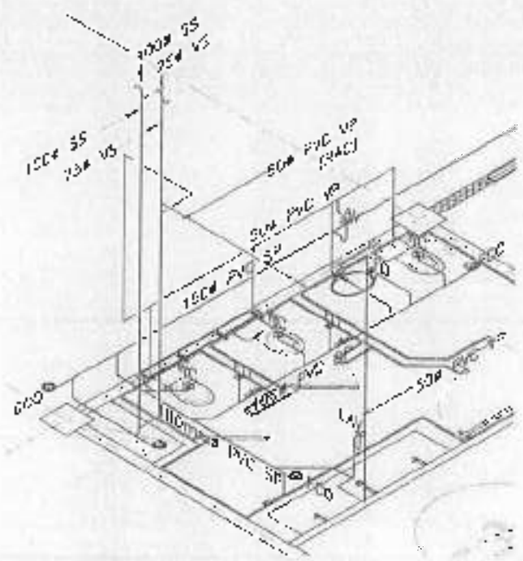


WASTE WATER RISER DIAGRAM



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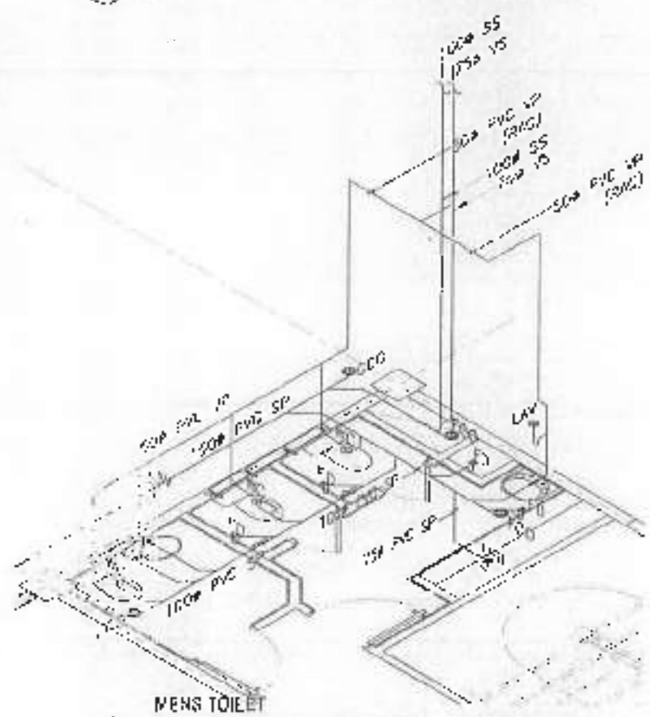
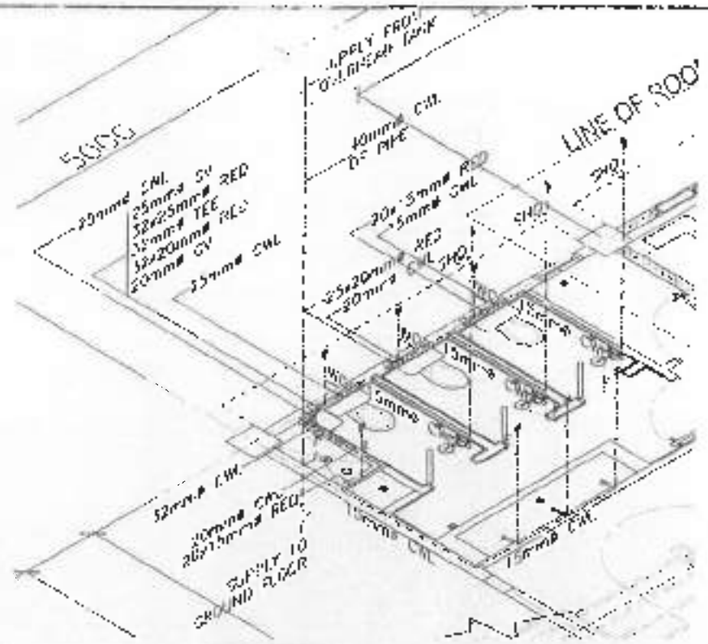
GROUND FLOOR WASTE WATER ISOMETRIC LAYOUT



MENS TOILET
GROUND FLOOR WASTE WATER ISOMETRIC LAYOUT

PHILCOM INTERNATIONAL INC.

OCT 20 2011



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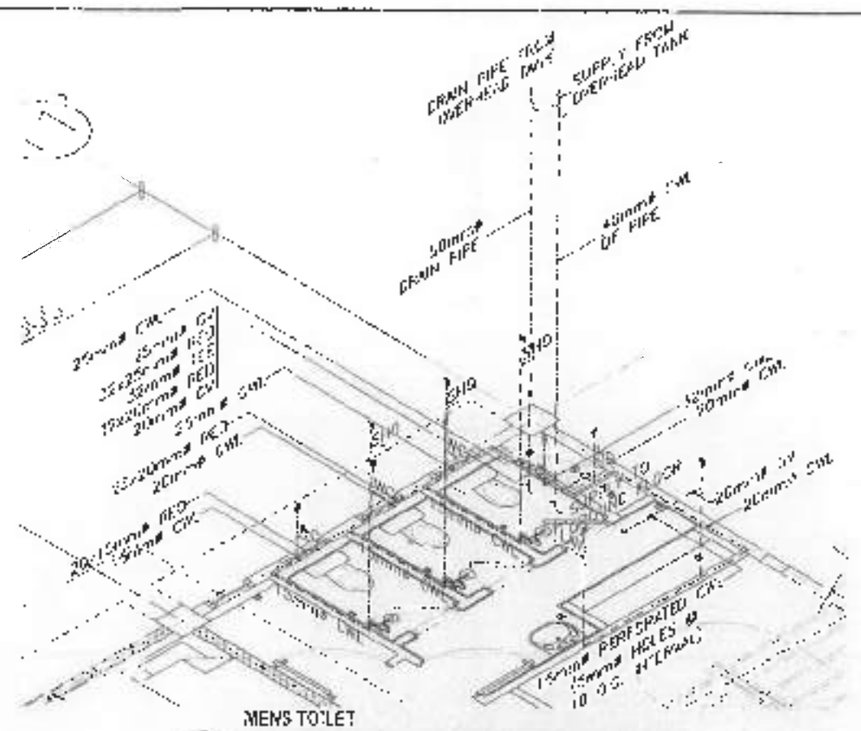
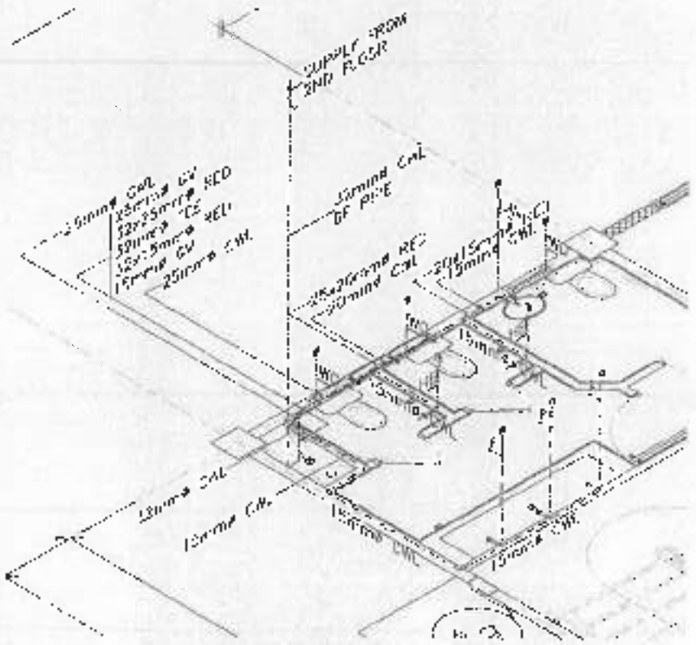
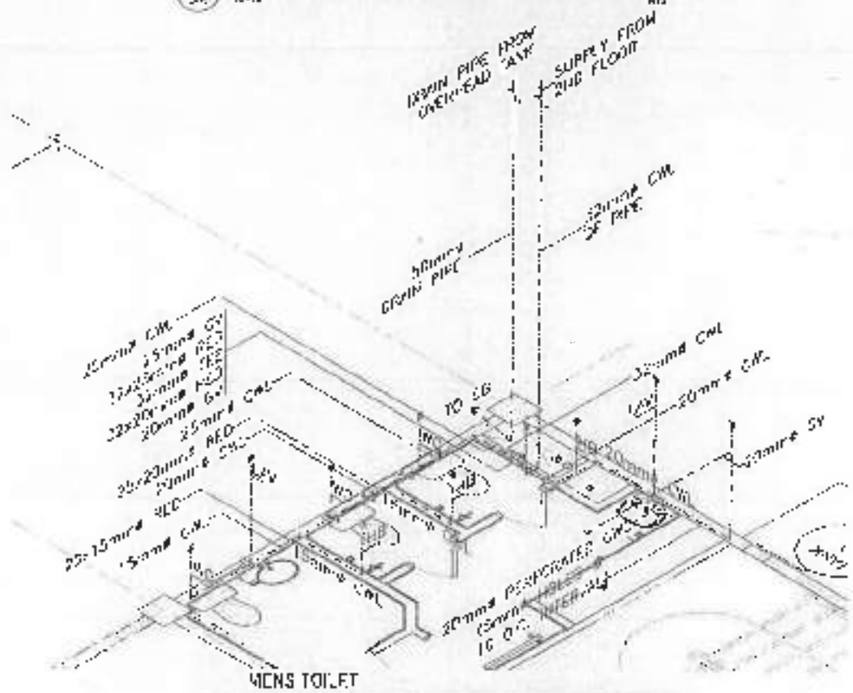


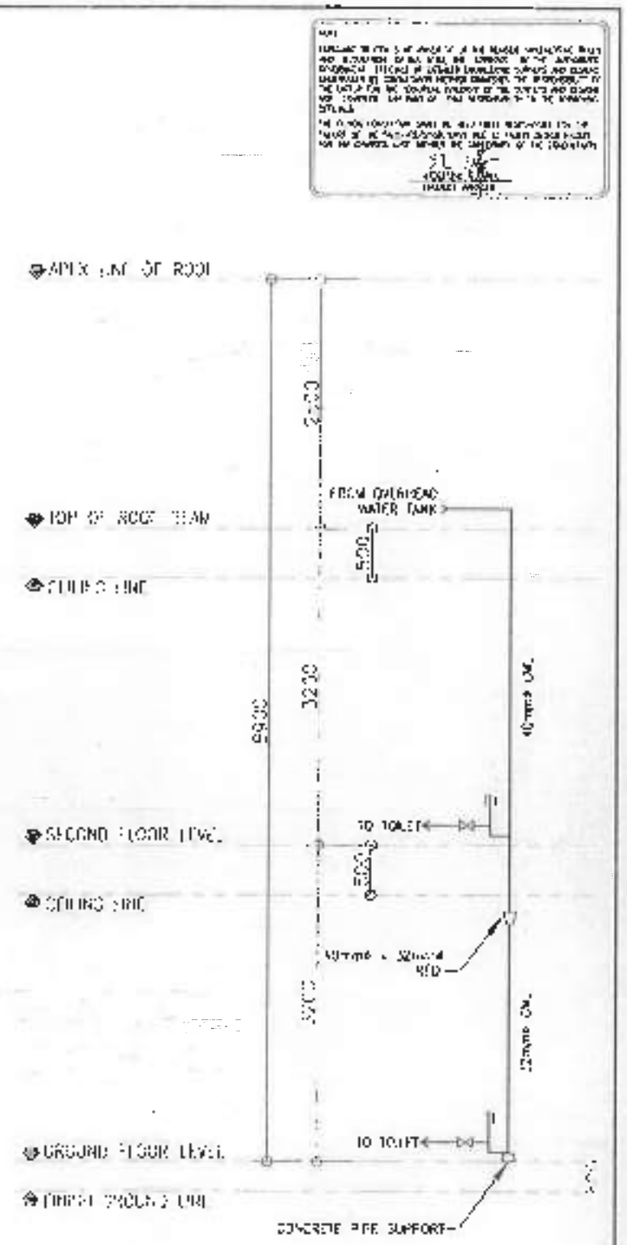
MENS TOILET
SECOND FLOOR WATER SUPPLY ISOMETRIC LAYOUT



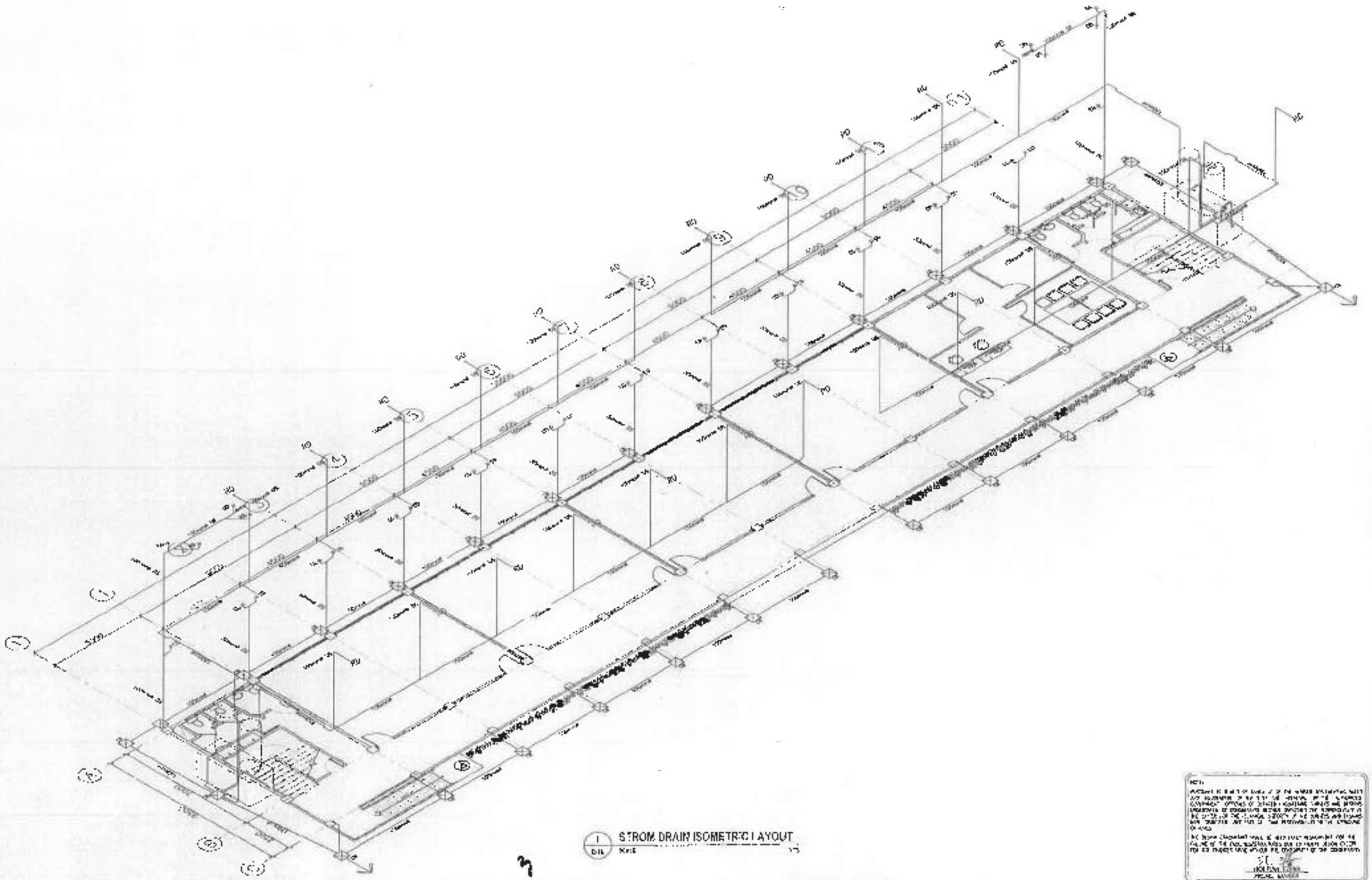
LADIES TOILET
GROUND FLOOR WATER SUPPLY ISOMETRIC LAYOUT



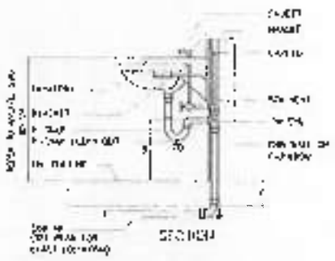
MENS TOILET
GROUND FLOOR WATER SUPPLY ISOMETRIC LAYOUT



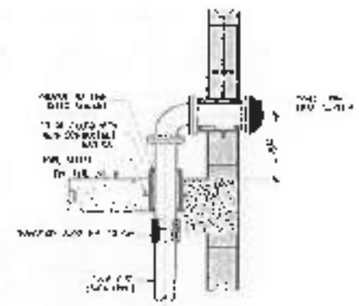
COLD WATER LINE RISER DIAGRAM



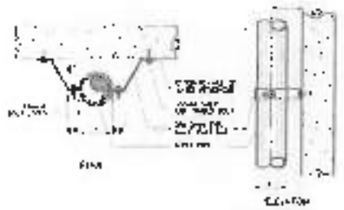
1 STROM DRAIN ISOMETRIC LAYOUT



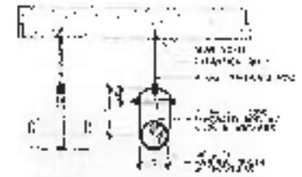
1 DETAIL OF TRAWASH HEADING
G-01 1/4" 10 SCALE



2 DETAIL OF STAND PIPE SUPPORT
G-01 1/4" 10 SCALE



3 SPECIAL PIPE CLAMP
G-01 1/4" 10 SCALE



STANDARD CLEVIS HANGERS
TABLE OF DIMENSIONS

D	A	B	E		
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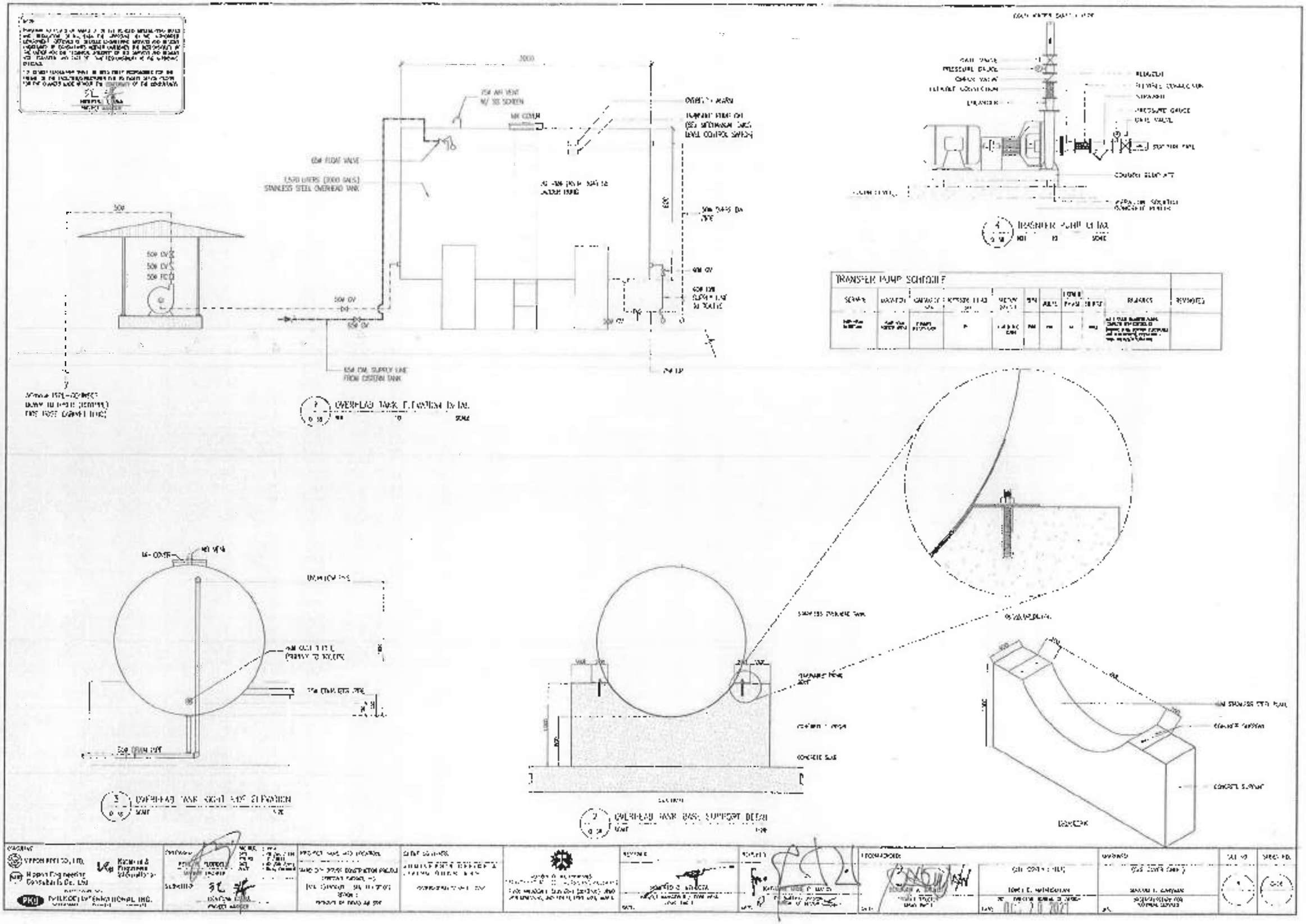
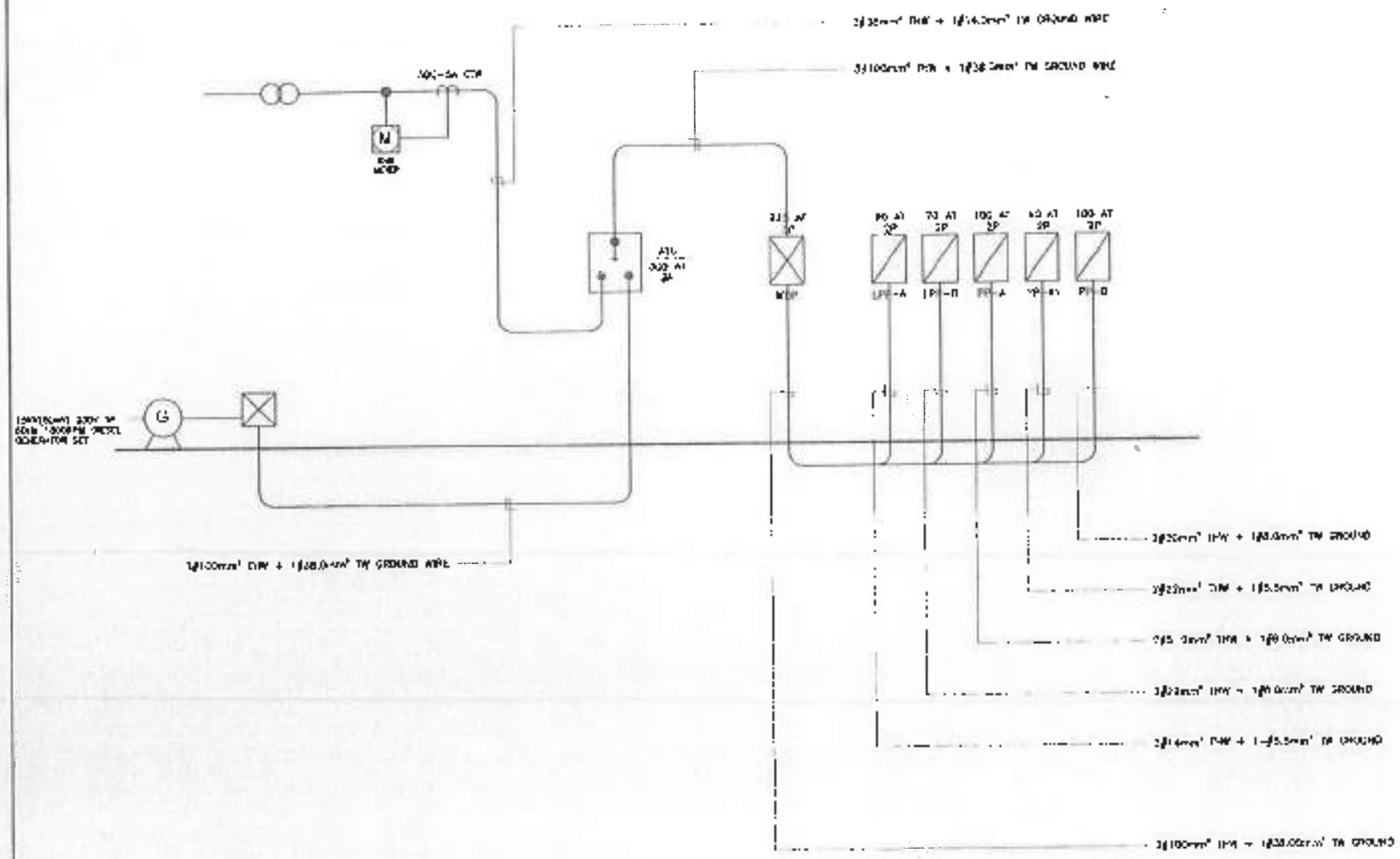
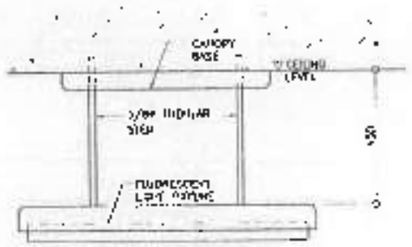

OVERHEAD TANK ELEVATION DETAIL
TRANSFER PUMP SCHEDULE
OVERHEAD TANK RIGHT SIDE ELEVATION
OVERHEAD TANK GAS SUPPORT DETAIL
DETAIL
SCALE
REVISED
DATE
DRAWN
CHECKED
APPROVED
SHEET NO.

ELECTRICAL





1 FLUORESCENT LIGHT FIXTURE MOUNTING DETAIL

GENERAL NOTES :

1. ALL ELECTRICAL WORKS SHALL COMPLY WITH THESE PLANS AND SPECIFICATIONS, THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC PART 1 2017), THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY.
2. THE ELECTRICAL SERVICE POWER SHALL BE 3-PHASE, 3-WIRE,230V AC, 60Hz
3. WIRING METHOD SHALL BE AS FOLLOWS: RIGID STEEL CONDUIT OR POLYVINYL CHLORIDE CONDUIT SCHEDULE 40 SHALL BE USED AS SPECIFIED IN THE PLAN.
4. ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE THWN UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUNS SHALL BE 3.5mm² AND INSULATED FOR 500VOLTS. EXT WIRE. ALL CONDUCTORS SHALL BE COLOR-CODED. SMALLEST RACEWAY SHALL BE 15mm (NOMINAL)
5. ALL OUTLET BOXES SHALL BE GALVANIZED GAGE NO. 18 DEEP TYPE
6. ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED FOR THE PARTICULAR LOCATION AND USAGE
7. EQUIPMENT GROUNDING SYSTEM SHALL BE PROVIDED TO THE ELECTRICAL SYSTEM AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
8. MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS
   a. LIGHT SWITCH - 1.25M ABOVE FINISH FLOOR
   b. CONVENIENCE OUTLET - 0.30M ABOVE FINISH FLOOR
9. ALL ELECTRICAL WORKS SHALL BE DONE UNDER THE DIRECT AND IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.

LEGEND

SYMBOL		DESCRIPTION
	-	1-18 WATTS COMPACT FLUORESCENT LAMP WITH MEDIUM BASE, KEYLESS TYPE PORCELAIN RECEPTACLE
	-	1 x 36 WATTS FLUORESCENT LIGHTING FIXTURE, BOX TYPE
	-	2 x 36 WATTS FLUORESCENT LIGHTING FIXTURE, BOX TYPE WITH CANOPY BASE AND STEM 1.5 FT. (450mm) LENGTH SIMILAR TO MACO XP-1113-1.5 OR APPROVED EQUAL
	-	2 x 36 WATTS FLUORESCENT LIGHTING FIXTURE, BOX TYPE
	-	WALL FAN OUTLET
S	-	SINGLE POLE WALL SWITCH
S2	-	DUPLEX SWITCH, 2 SINGLE POLE SWITCHES ON ONE SWITCH PLATE
S3W	-	SINGLE WAY WALL SWITCH
2S3W		2 THREE WAY WALL SWITCHES ON ONE SWITCH PLATE
S/C	-	FAN CONTROL SWITCH
		RACEWAY CONDUIT CONCEALED IN CEILING
	-	RACEWAY CONDUIT CONCEALED UNDER FLOOR
	-	PANELBOARD, MARKED AS "LP"
		CKT. BREAKER, RATING AS INDICATED
	-	DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE, 15 AMPS, 240 VOLT
WP	-	WEATHERPROOF DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE, 15 AMPS, 240 VOLT
	-	CIRCUIT HOMERUN
	-	ENCLOSED AIR CIRCUIT BREAKER
		FIRE ALARM CONTROL PANEL
	-	FIRE ALARM STATION OUTLET
	-	FIRE ALARM BELL
	-	SERVICE METER
	-	SERVICE ENTRANCE
MDP	-	MAIN DISTRIBUTION PANELBOARD
	-	AUTOMATIC TRANSFER SWITCH
		EXHAUST FAN UNIT

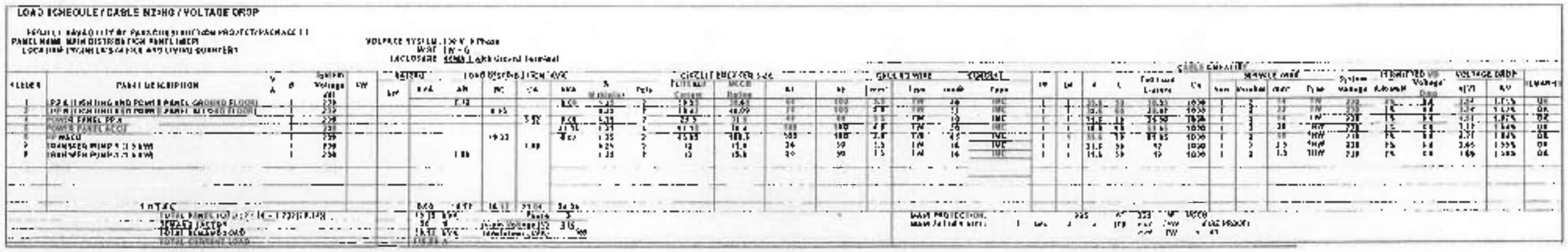
NOTE

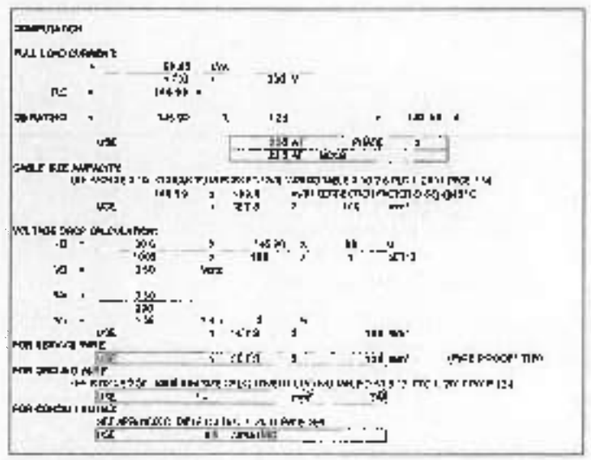
PURSUANT TO CITY ORDINANCE NO. 7232 THE BUILDING ARCHITECTURAL PLANS AND PROGRAMS OF ALL PUBLIC AND PRIVATE BUILDINGS, IN THE NATURE OF CONTINUOUS OUTLINE OF DOUBLE DIMENSIONS SHALL BE PROVIDED WITH PROPER DESIGNS BY THE PLANT LOCAL SUBMISSION OF BIOMORPHIC OR THE LOCATION AND BUILDING WITHIN OF THE PLANTS AND ZONAL AND TRANSITIONAL ZONES OF THE CITY OF MANILA. FOR THE BUILDING OR STRUCTURE TO BE ERECTED OR ALTERED.

THE BUILDING OWNER WILL BE HELD FULLY RESPONSIBLE FOR ANY VIOLATION OF THE ORDINANCE UNDER PENALTY OF THE ORDINANCE.

ST
HOSEAN TORRA
PROJECT MANAGER

PROPONENT: VITCON STEEL CORP. / Nippon Engineering Consultants Co., Ltd.	PREPARED: PIRLEKOO INTERNATIONAL, INC.	CHECKED: ST HOSEAN TORRA PROJECT MANAGER	PROJECT NAME AND LOCATION: PROPOSED SEAFARERS CONDOMINIUM CONSTRUCTION PROJECT CONTRACT NO. 2 (NO. 3040000 – 10, 3040001 BLDG. 3) PORTION OF PARCEL 2	SHEET CONTENTS: ENGINEER'S OFFICE & LIVING QUARTERS FLUORESCENT LIGHT FIXTURE MOUNTING DETAIL	REVIEWED: DANTE E. MENDOZA PROJECT MANAGER / CIVIL WORKS	REVIEWED: ATTY. ALBERTO MARTIN C. CONCEPCION, JR. CHIEF, CIVIL WORKS DIVISION	RECOMMENDED: WILFREDO A. SANTOS PROJECT DIRECTOR, CIVIL WORKS	SEE COVER SHEET	APPROVED: SEE COVER SHEET ATTY. ALBERTO C. CONCEPCION, JR. DIRECTOR, LEGAL SERVICE OFFICE	SEE COVER SHEET NAPOLI L. SAMANIEGO DIRECTOR, CITY PLANNING & DEVELOPMENT OFFICE	SHEET NO.





1 / 240 LOAD SCHEDULE, CABLE SIZING & VOLTAGE DROP

SCALE

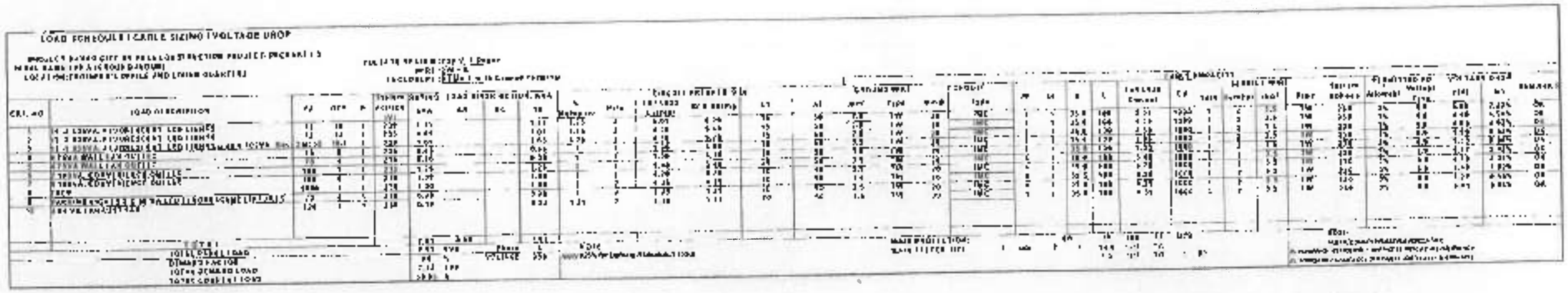
NOTE

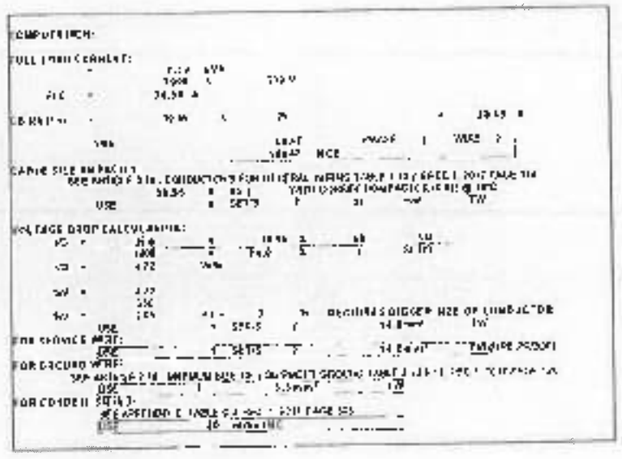
PURSUANT TO PART 1 OF NOTE "C" OF THE BOARD CALCULATION RULES AND PROCEDURE OF R.A. 6136, THE APPROVAL OF THE INFRASTRUCTURE DEVELOPMENT OFFICER OF HONDA DEVELOPMENT MARKETING CORPORATION OF CONSULTANCY SERVICES DIVISION IS NECESSARY FOR THE REPRODUCTION OF THE LISTED FOR THE TECHNICAL INTEGRITY OF THE SERVICE AND DESIGN AND TRANSFER AND PART OF THIS REPRODUCTION TO THE APPROVAL OFFICER.

THE HONDA CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE INFORMATION/SOLUTIONS AND BE FULLY OTHER DESIGN FOR THE CHANGES MADE BEYOND THE CONTRACT OF THE CONSULTANT.

S.L.
HONDA CONS.
PROJECT MANAGER

OWNER(S)	PREPARED	PROJECT NAME AND LOCATION	SHEET CONTENTS		REVIEWED	REVIEWED	RECOMMENDED		APPROVED	SET NO.	SHEET NO.
HONDA PHILIPPINES, INC. / Nippon Engineering Consultants Co., Ltd. / PHILKOJI INTERNATIONAL, INC.	SIGNATURE / PROJECT MANAGER	HONDA CARS PHILIPPINES DISTRIBUTION PROJECT (CONTRACT PACKAGE 1) P.O. SM-00000 – LOT SM-00000 / BATAN II / PROVINCE OF BATAAN and BUN	ENGINEER'S OFFICE & LIVING QUARTERS: LOAD SCHEDULE, CABLE SIZING, & VOLTAGE DROP						(SEE COVER SHEET) / (SEE COVER SHEET)		
					DATE	DATE	DATE OCT 20 2021		DATE		

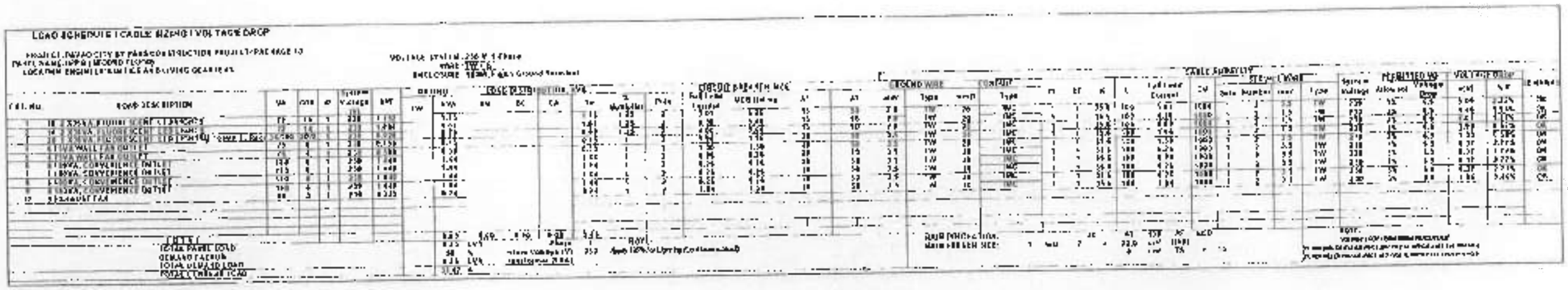


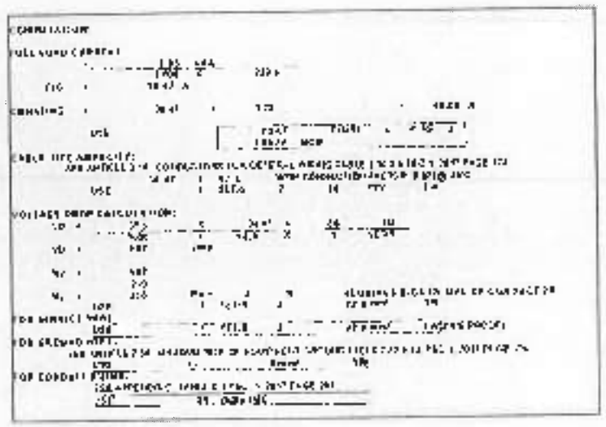


LOAD SCHEDULE, CABLE SIZING & VOLTAGE DROP

COMPANY	PREPARED		PROJECT NAME AND LOCATION	SHEET CONTENTS		REVIEWED	REVIEWED	RECOMMENDED		APPROVED	SLI NO.	SHEET NO.
IPPCV CO., LTD. / Alpen Engineering Consultant Co., Ltd. / PK1 PHUKETTRANSNATIONAL CO.	Electrical Engineer		LOAD CITY OFFICE CONSTRUCTION PROJECT CONVOY PHASE 1 3	EXTERIOR & INTERIOR LIGHTING SCHEDULE, CABLE SIZING & VOLTAGE DROP				(SEE COVER SHEET)		(SEE COVER SHEET)		
	SUBMITTED		PROJECT OWNER									

LOAD SCHEDULE / CABLE SIZING / VOLTAGE DROP



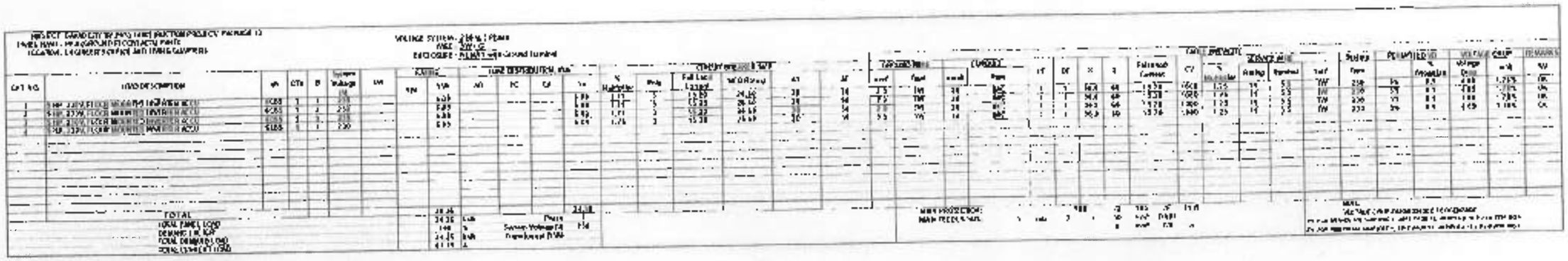


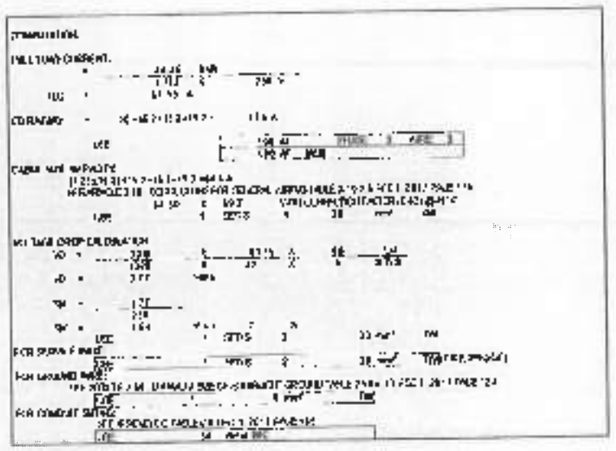
LOAD SCHEDULE, CABLE SIZING & VOLTAGE DROP

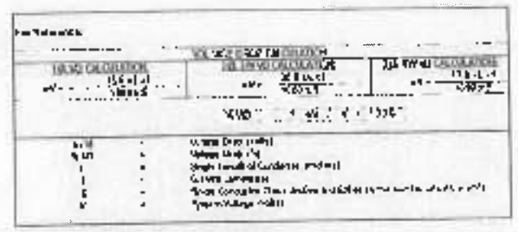
SCALE: NONE

DESIGNED: NIPPON KOEI CO., LTD. / Nippon Engineering Consultants Co., Ltd. / PHILKOEI INTERNATIONAL, INC.	PROVED:	PROJECT NAME AND LOCATION: OAHU SKY STREET FOUNDATION PROJECT (SITE 1) (SITE 2) - (SITE 3) ROOM 3 PONDAGE OF OAHU de SUR	SHEET TITLE(S): LOAD SCHEDULE, CABLE SIZING & VOLTAGE DROP 1 OF 2	REVIEWED:	REVIEWED:
	SUBMITTED:			DATE:	DATE:

RECOMMENDED:	(SIGNATURE OVER PRINTED NAME)	APPROVED:	(SIGNATURE OVER PRINTED NAME)	SHT NO. / SHEET NO.
DATE:	DATE: OCT 20 2021	DATE:		



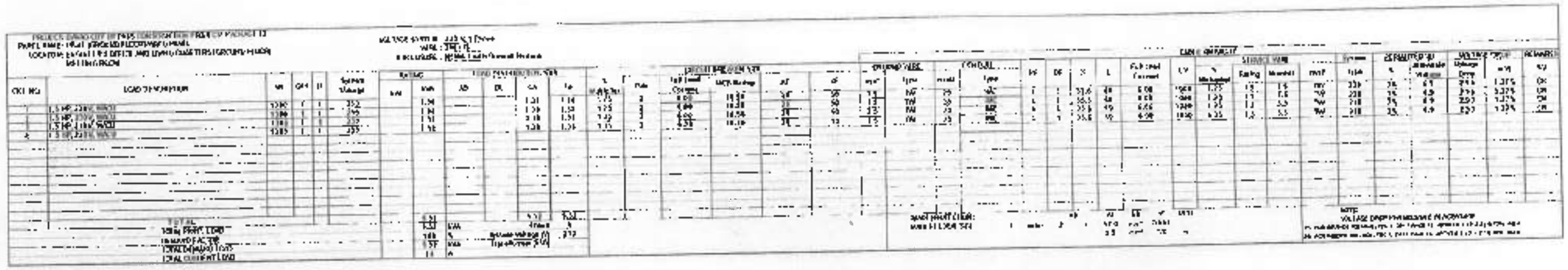


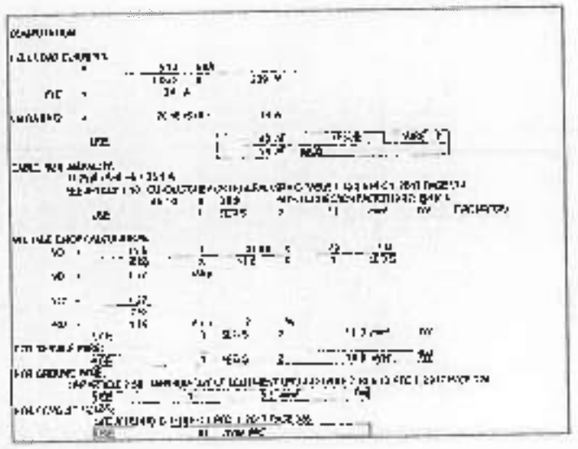


1 / D-43 LOAD SCHEDULE, CABLE SIZING & VOLTAGE DROP

NTS

COMPANY: Nippon Koei Co., Ltd. / Nippon Engineering Consultants Co., Ltd. / PKII Pacific Koei International, Inc.	PREPARED	PROJECT NAME AND LOCATION	SHEET CONTENTS: ENGINEER'S OFFICE & LIVING QUARTERS LOAD SCHEDULE, CABLE SIZING & VOLTAGE DROP	REVIEWED	REVIEWED
RECOMMENDED: (SEE COVER SHEET)	APPROVED: (SEE COVER SHEET)	MS NO.	SHEET NO.		
		4	D-43		

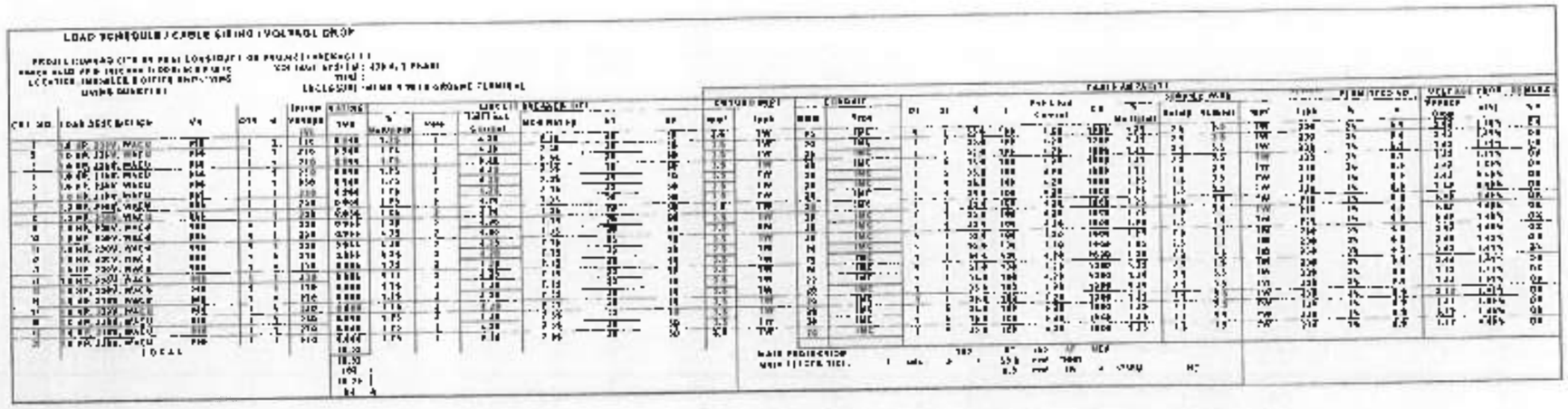




LOAD SCHEDULE, CABLE SIZING & VOLTAGE DROP

PREPARED: Nippon Koei Co., Ltd. / Nippon Engineering Consultants Co., Ltd. / Pacific Engineers International	PREPARED	PROJECT NAME AND LOCATION	PLANT CONSISTS	REVIEWED	RECOMMENDED
PHILCOA INTERNATIONAL, INC.	SUBMITTED				

REVISED	REVIEWED	RECOMMENDED	APPROVED	SHEET NO.
		(SEE COVER SHEET)	(SEE COVER SHEET)	



LOAD SCHEDULE, CABLE SIZING & VOLTAGE DROP

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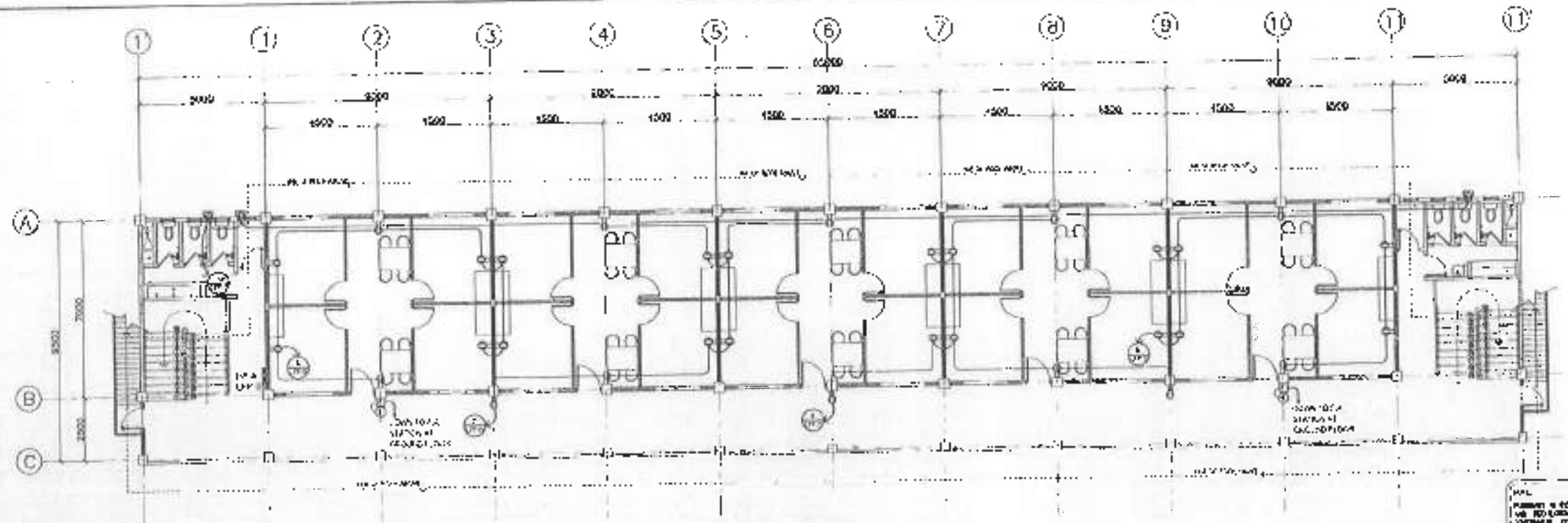
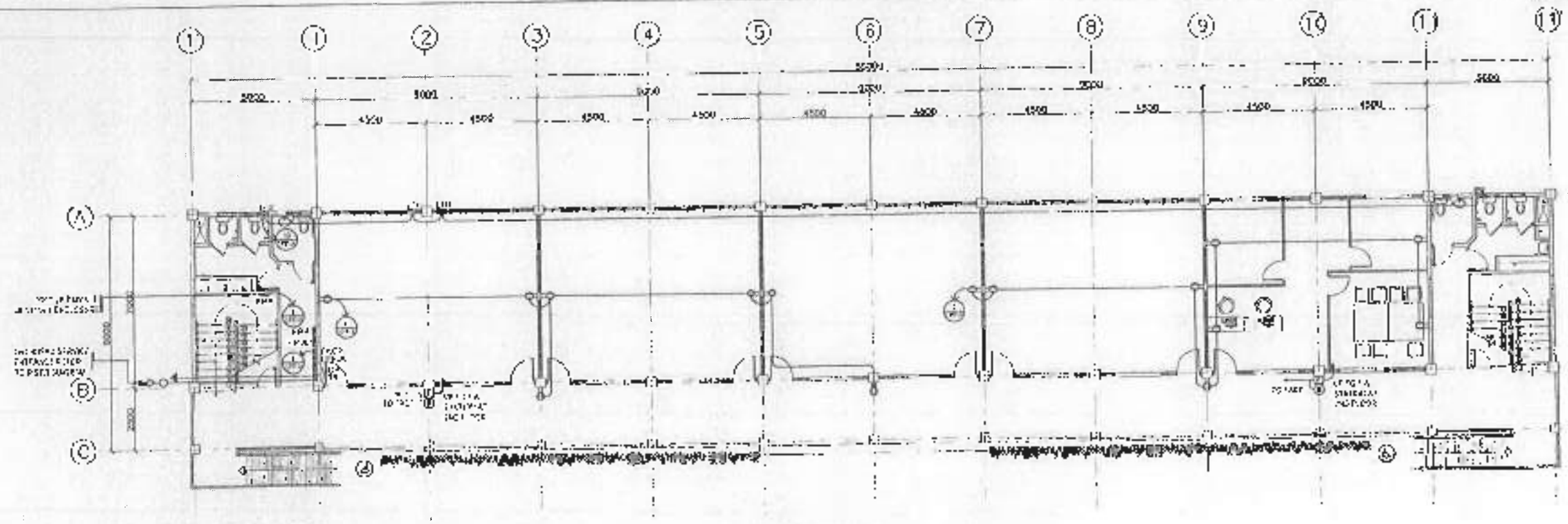
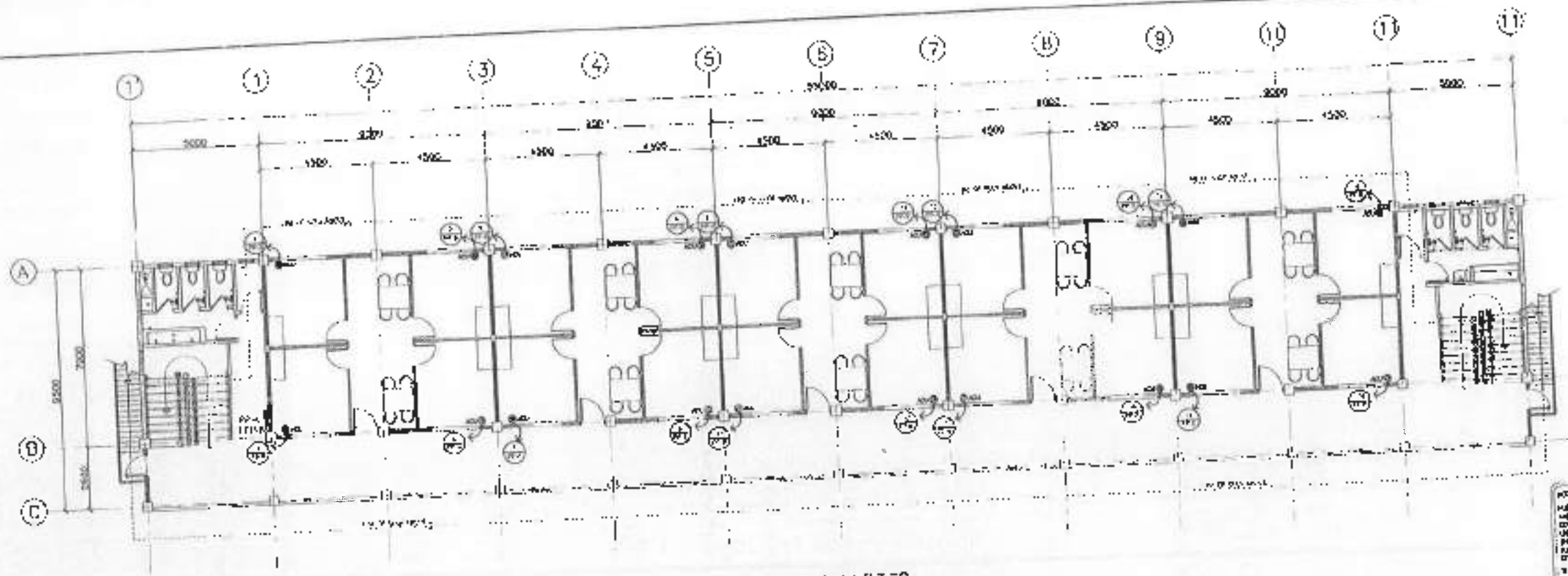


LIVING QUARTER
SECOND FLOOR POWER LAYOUT

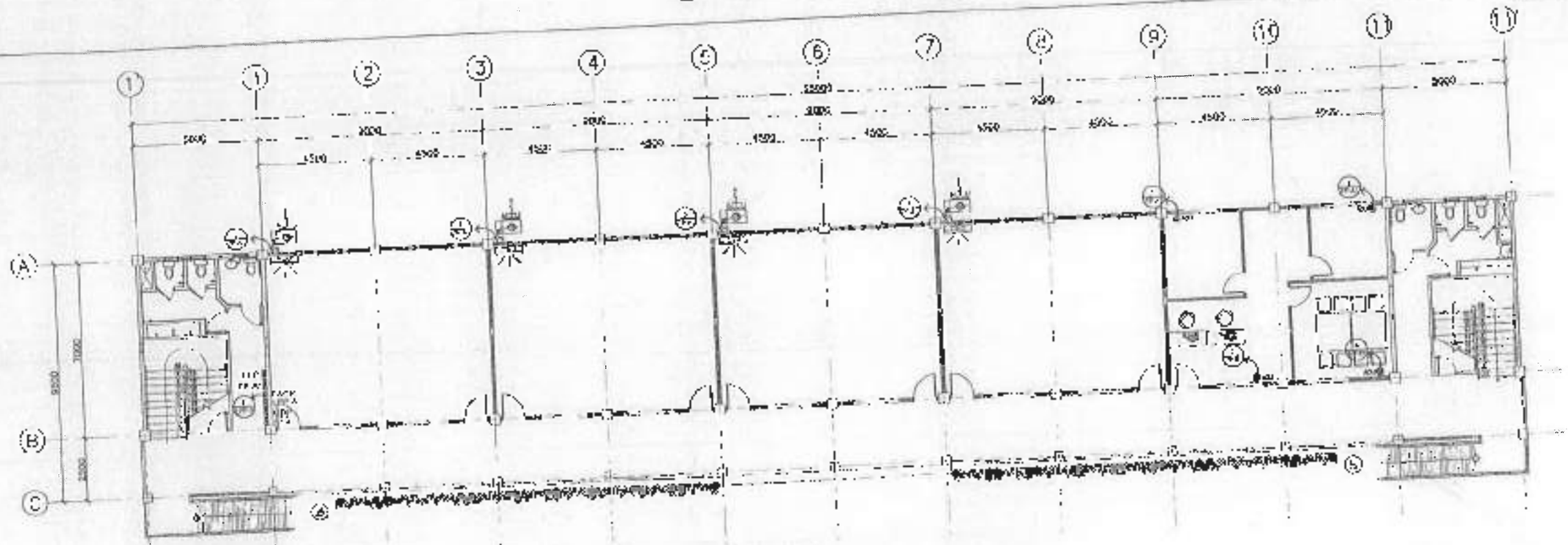


ENGINEER'S OFFICE
GROUND FLOOR POWER LAYOUT

PREPARED:	PROJECT NAME AND LOCATION:	SHEET CONTENTS:		REVIEWED:			INTERVIEWED:		SET NO.	SHEET NO.
		ENGINEER'S OFFICE & LIVING QUARTERS: SECOND FLOOR POWER LAYOUT / GROUND FLOOR POWER LAYOUT								

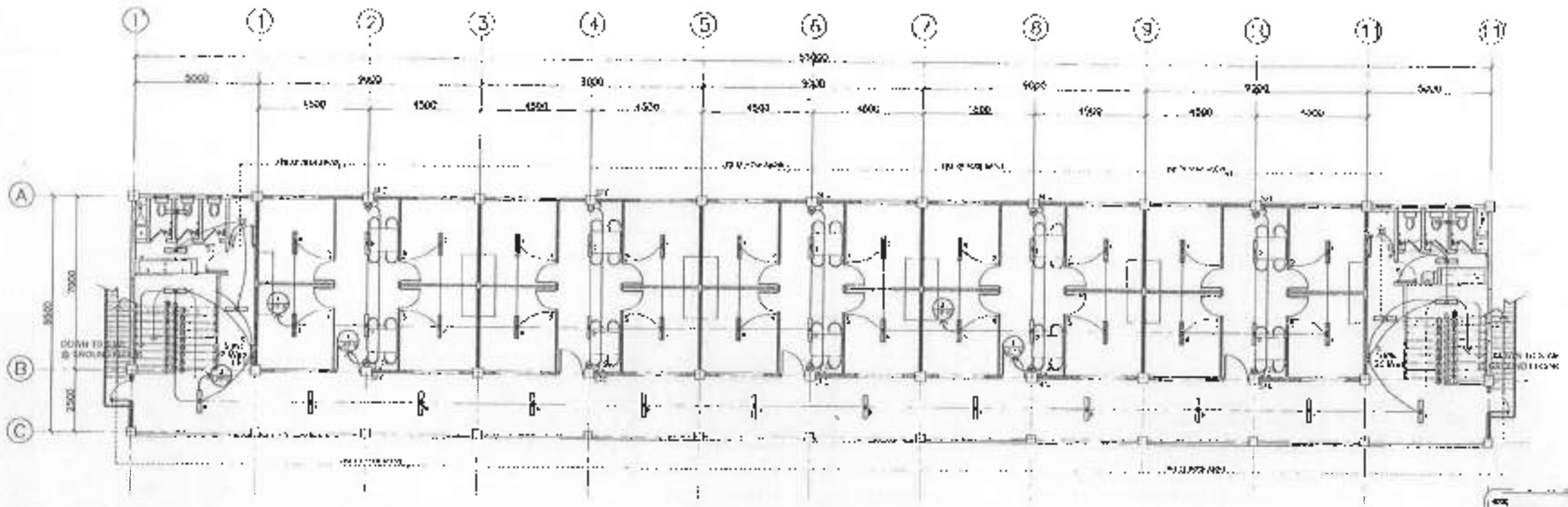


LIVING QUARTER
SECOND FLOOR ACU LAYOUT

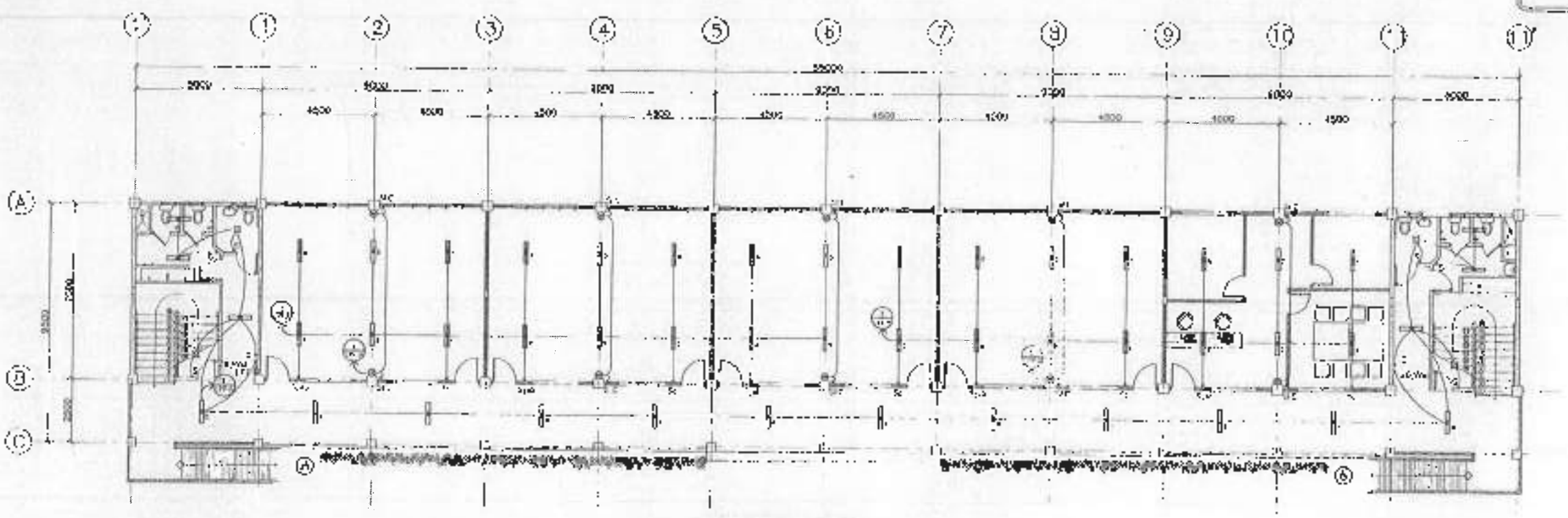


ENGINEER'S OFFICE
GROUND FLOOR ACCU AND ACU LAYOUT

CONSULTANT		PROJECT NAME AND LOCATION	SHEET DESCRIPTION		REVIEWED	REVIEWED	REVISION DATE		APPROVED	SHEET NO.	SHEET NO.
NIPPON POLICY CO., LTD. / Nippon Engineering Consultants Co., Ltd. / PKU KOREA INTERNATIONAL INC.	Kyung Il Engineering International		ENGINEER'S OFFICE & LIVING QUARTERS / GROUND FLOOR ACCU AND ACU LAYOUT / SECOND FLOOR ACU LAYOUT								



LIVING QUARTER
SECOND FLOOR LIGHTING LAYOUT

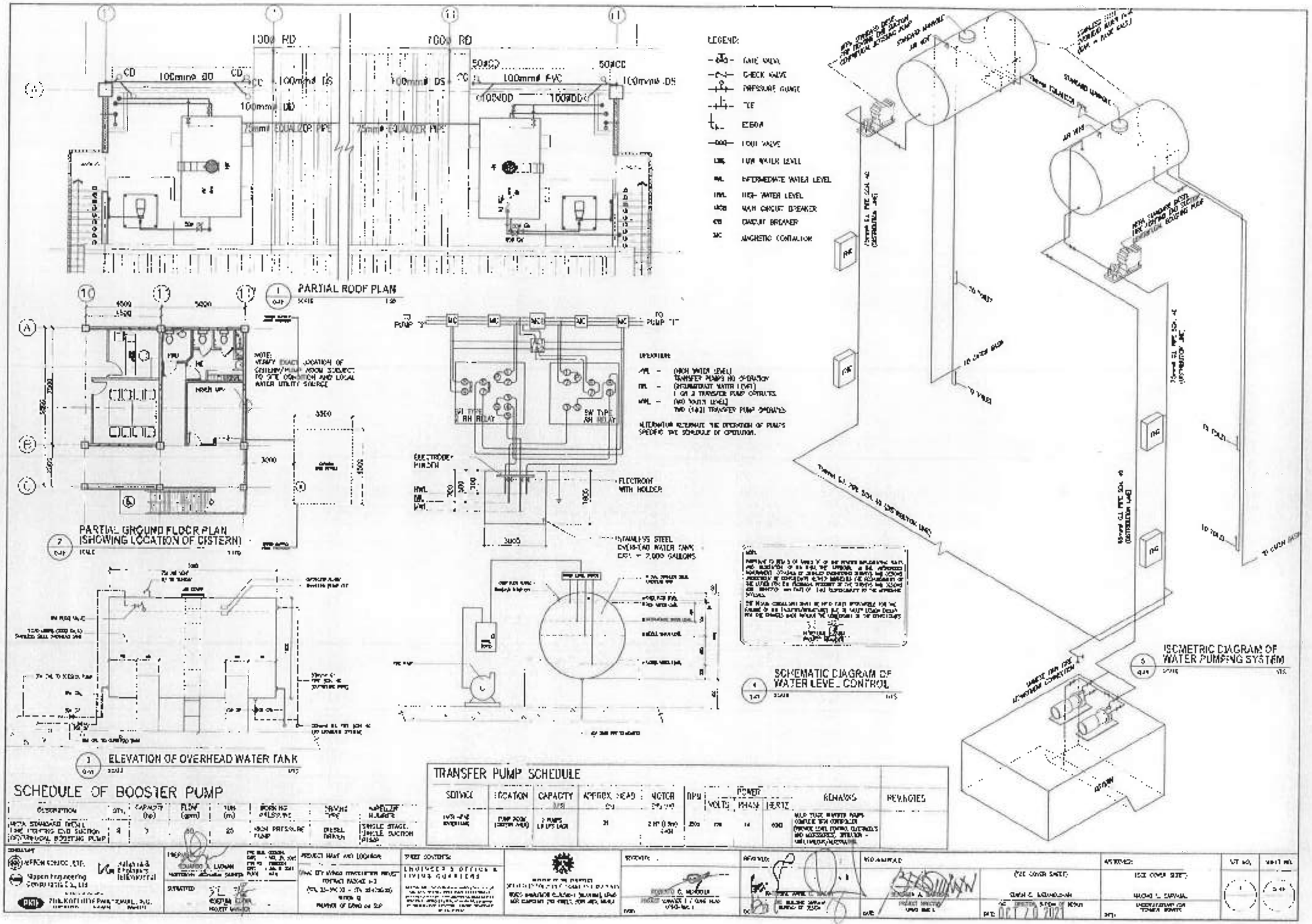


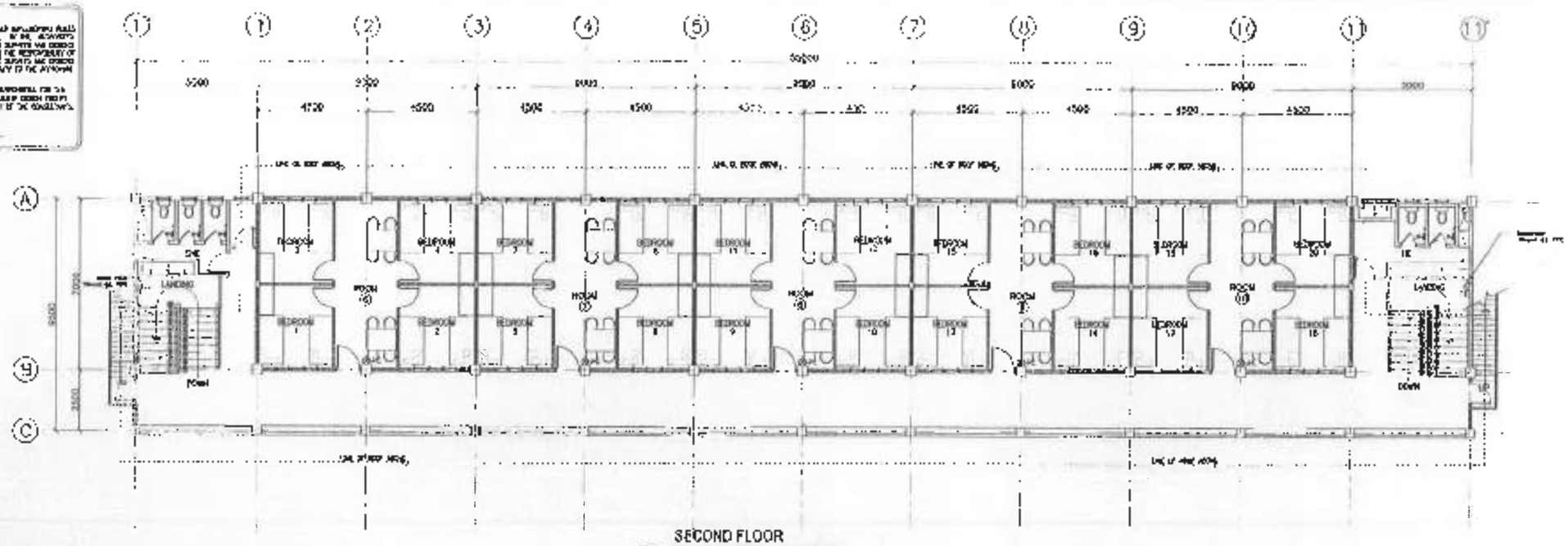
ENGINEER'S OFFICE
GROUND FLOOR LIGHTING LAYOUT

HEFCO KOREA, LTD. / Nippon Engineering Consultants Co., Ltd. / PHILKOREA INTERNATIONAL, INC.													

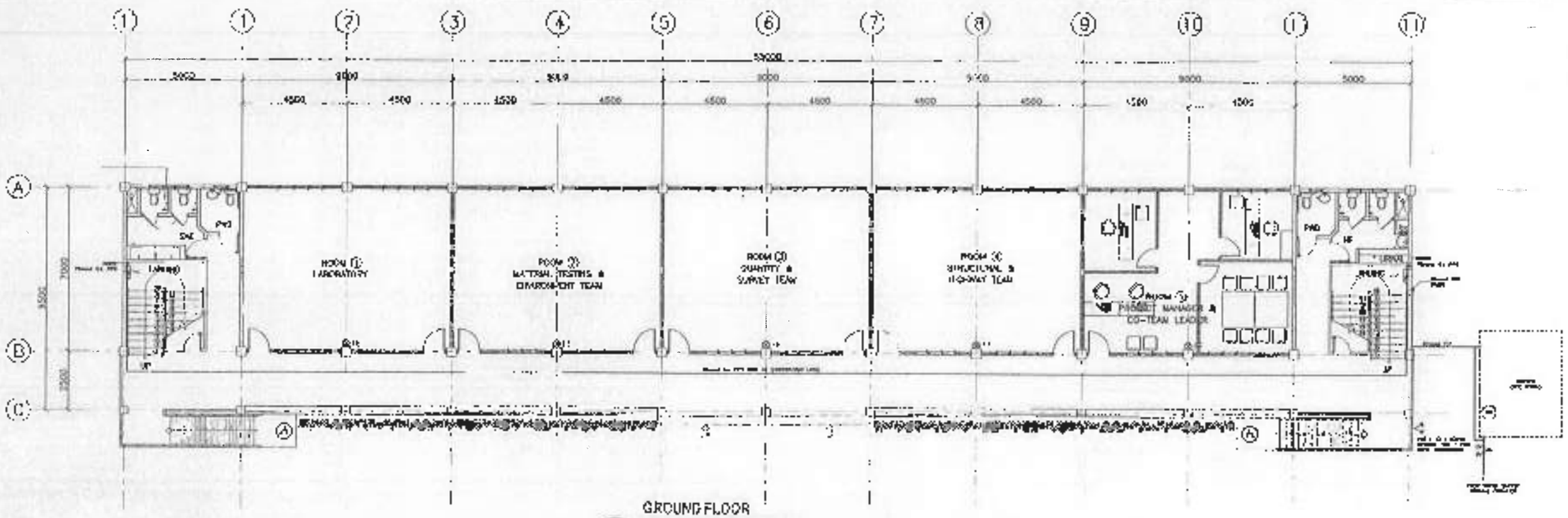
MECHANICAL

OCT 28 2021


PARTIAL ROOF PLAN
PARTIAL GROUND FLOOR PLAN (SHOWING LOCATION OF CISTERN)
ELEVATION OF OVERHEAD WATER TANK
SCHEMATIC DIAGRAM OF WATER LEVEL CONTROL
ISOMETRIC DIAGRAM OF WATER PUMPING SYSTEM
LEGEND:
GATE VALVE
CHECK VALVE
PRESSURE GAUGE
TEE
ELBOW
FOOT VALVE
LOW WATER LEVEL
INTERMEDIATE WATER LEVEL
HIGH WATER LEVEL
MAIN CIRCUIT BREAKER
CIRCUIT BREAKER
MAGNETIC CONTACTOR
OPERATION
HWL - (HIGH WATER LEVEL) TRANSFER PUMPS NO OPERATION
IWL - (INTERMEDIATE WATER LEVEL) 1 OF 2 TRANSFER PUMP OPERATES
LWL - (LOW WATER LEVEL) TWO (1&2) TRANSFER PUMP OPERATES
ALTERNATOR ALTERNATE THE OPERATION OF PUMPS SPECIFIC TIME SCHEDULE OF OPERATION.
ELECTRODE PINION
ELECTRODE WITH HOLDER
STAINLESS STEEL OVERHEAD WATER TANK CAP. = 2,000 GALLONS
NOTE: VERIFY EXACT LOCATION OF CISTERN/PUMP ROOM SUBJECT TO SITE CONDITION AND LOCAL WATER UTILITY SOURCE
TO PUMP "1"
TO PUMP "2"
TO TOILET
TO LAVATORY
TO SINK
TO COOK SINK
TO DRAIN
TO DRAIN
TO DRAIN



SECOND FLOOR
FIRE PROTECTION PLAN



GROUND FLOOR
FIRE PROTECTION PLAN

PHILCOSTI INTERNATIONAL INC.									

LEGEND:

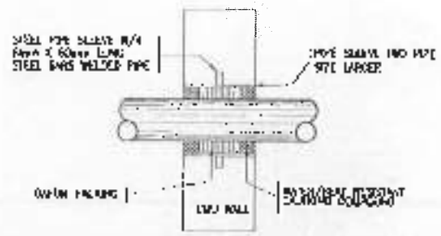
- GATE VALVE
- GLOBE VALVE
- SIAMESE TWIN
- FIRE EXTINGUISHER
- TEE
- ELBOW
- FHC — FIRE HOSE CABINET (INDOOR TYPE)
- BS & Y GATE VALVE
- FDC — FIRE DEPARTMENT CONNECTION

GENERAL NOTES:

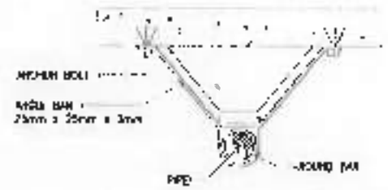
1. ALL WORKS SHOULD BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES NO. 13 & 20, NATIONAL FIRE BUILDING CODE OF THE PHILIPPINES
2. ALL WORKS SHALL BE EXECUTED IN CLOSE COORDINATION WITH ALL OTHER TRADES. THE ARCHITECT AND THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY CONFLICT.
3. ALL PIPE SIZES ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
4. PIPE SLEEVES SHALL BE PROVIDED FOR ALL PIPES PASSING THRU SLABS, WALLS & BEAMS

FIRE EXTINGUISHER

DESIGNATION	QUANTITY	WEIGHT		TYPE (LOCATION)	DISCHARGE RANGE	DIAMETER	MAXIMUM VOLUME OF PROTECTION	EXTINGUISHING AGENT	REMARKS
		GROSS	NET						
FE	10	14.0 kg.	10 kg	WALL MOUNTED	8.50 m.	15.2 cm.	51 m	HCFC 123	CONTEMPORARY PRODUCT DESIGN NEW AND READY FOR SERVICE

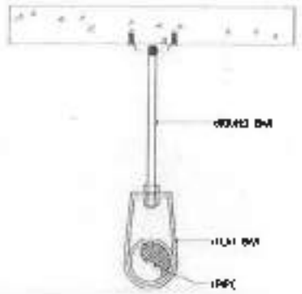


PIPE SLEEVE



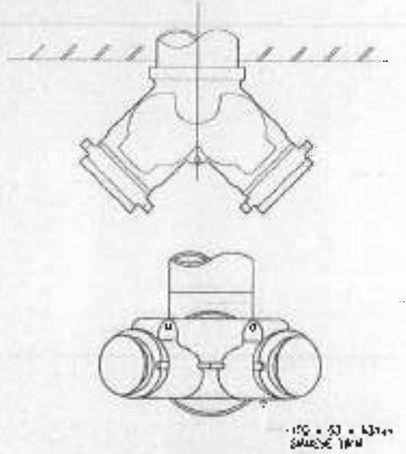
TWO WAY BRACE PIPE HANGER

TWO-WAY PIPE BRACE	
	PIPE SIZE 50mm - 100mm
ROUND BAR	10mm
ANGULAR BAR	35 x 35mm
EXPANSION SHIELD	10mm

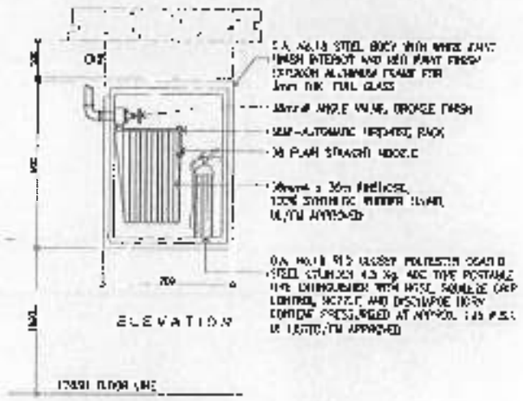


PIPE HANGER

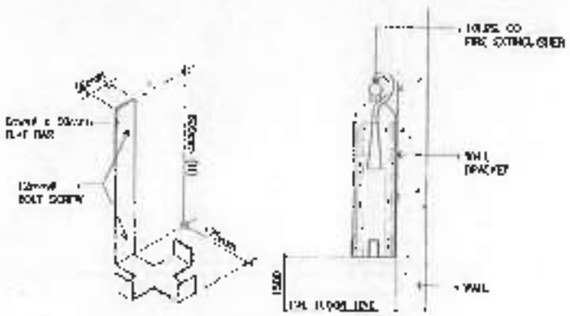
PIPE HANGER		
	PIPE SIZE 25-30mm	35-150mm
FLAT BAR	25-30mm	35-50mm
ROUND BAR	10mm	15mm
EXPANSION SHIELD	10mm	12mm



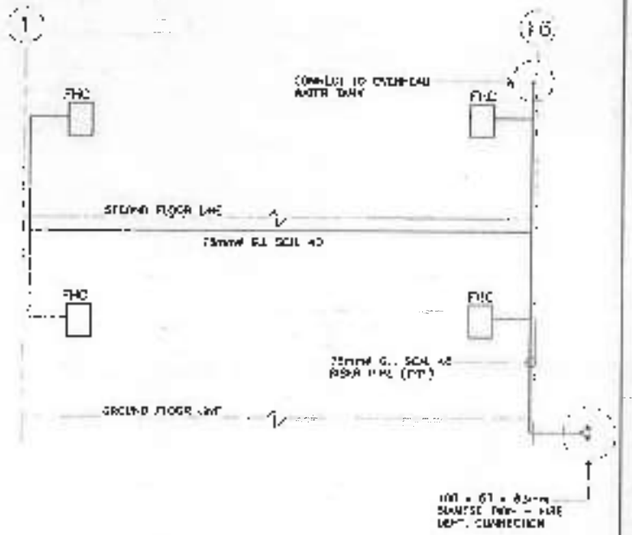
DET. OF FIRE DEPT. CONNECTION
NOT TO SCALE



FIRE HOSE CABINET DETAIL
NOT TO SCALE



FIRE EXTINGUISHER DETAIL
NOT TO SCALE



FIRE HOSE CABINET (FHC)
DRY STAND PIPE RISER DIAGRAM CONN.
NOT TO SCALE

FIRE PROTECTION DETAIL
NOT TO SCALE

NOTE:

PURSUANT TO RULE 9 OF PART 1 OF THE REVISED IMPLEMENTING RULES AND REGULATIONS OF REPUBLIC ACT 9266 THE NATIONAL BUILDING CODE OF THE PHILIPPINES, ALL PROFESSIONAL DESIGNS OF REPUBLIC ENGINEERING SERVICES ARE BEING UNDERTAKEN IN CONSULTATION WITH THE COMPONENT OF THE LOCAL GOVERNMENT TECHNICAL REVIEWER OF THE SERVICES AND REQUIRE ALL PERMITS AND PART OF THE REQUIREMENTS TO BE APPROVED BY THE APPROPRIATE AUTHORITY.

THE FIRM CONTRACTOR SHALL BE WITH DULY REPRESENTATIVE TO THE PROJECT BY THE ENGINEER/ARCHITECT DUE TO PRACTICAL REASON EXCEPT FOR THE OWNER WHO WOULD BE THE REPRESENTATIVE OF THE CONSULTANT.

31 JAN 2021
HERMINIA T. TORRES
PROJECT MANAGER

CONSULTANT	PREPARED BY	PROJECT NAME AND LOCATION	SHEET CONTENTS		REVIEWED	REVIEWED	RECOMMENDED	APPROVED	NO.	SHEET NO.
KRPDA WORLD CO., LTD. / Kalayaan & Associates (Consulting) / Hydro-Engineering Consultants Co., Ltd. / PHILKOREA INTERNATIONAL INC.	HERMINIA T. TORRES, PROFESSIONAL MECHANICAL ENGINEER, PROJECT MANAGER	SAINT JOHN BOSCO CONSTRUCTION PROJECT (BOSCO HOUSE) [BLK. 32-33-34 - 34, 37-38-39] SUBDIV. U, BARANGAY U, MAKATI CITY	PHILIPPINES OFFICE'S DIVISION OF CONSTRUCTION, FIRE PROTECTION DETAIL	REPUBLIC OF THE PHILIPPINES, DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS, BUREAU OF CONSTRUCTION, NATIONAL CAPITAL REGION, MANILA	ENGR. ROMEO C. JENSON, PROJECT MANAGER II / OIC HEAD, BUREAU - 1, DATE	ARCHITECT, DIVISION CHIEF, DATE	ARCHITECT, PROJECT MANAGER, DATE	(SEE COVER SHEET) ENGR. C. LAVARIAS, DIRECTOR OF BUREAU, DATE 01 / 20 / 2021	(SEE COVER SHEET) ENGR. C. LAVARIAS, DIRECTOR OF DIVISION, DATE	1	04

AIR CONDITIONING SYSTEM EQUIPMENT SCHEDULE

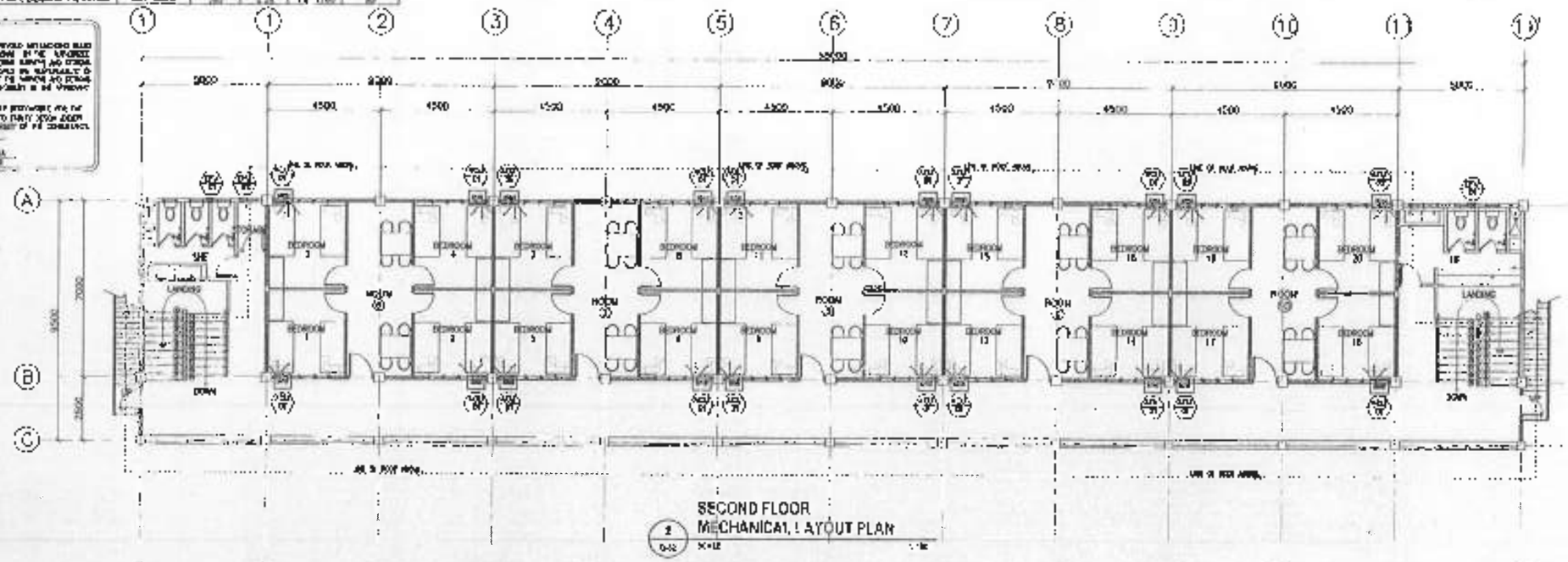
UNIT NO.	QTY.	AREA SERVED	FAN TYPE	COOLING CAPACITY	HEATING CAPACITY	POWER INPUT	FAN SIZE		OUTDOOR UNIT NO.	QTY.	COOLING CAPACITY	ELECTRICAL SUPPLY	POWER INPUT
[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	4	[illegible]	[illegible]	[illegible]

UNIT NO.	QTY.	AREA SERVED	TYPE	COOLING CAPACITY	ELECTRICAL SUPPLY	REFRIGERANT
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

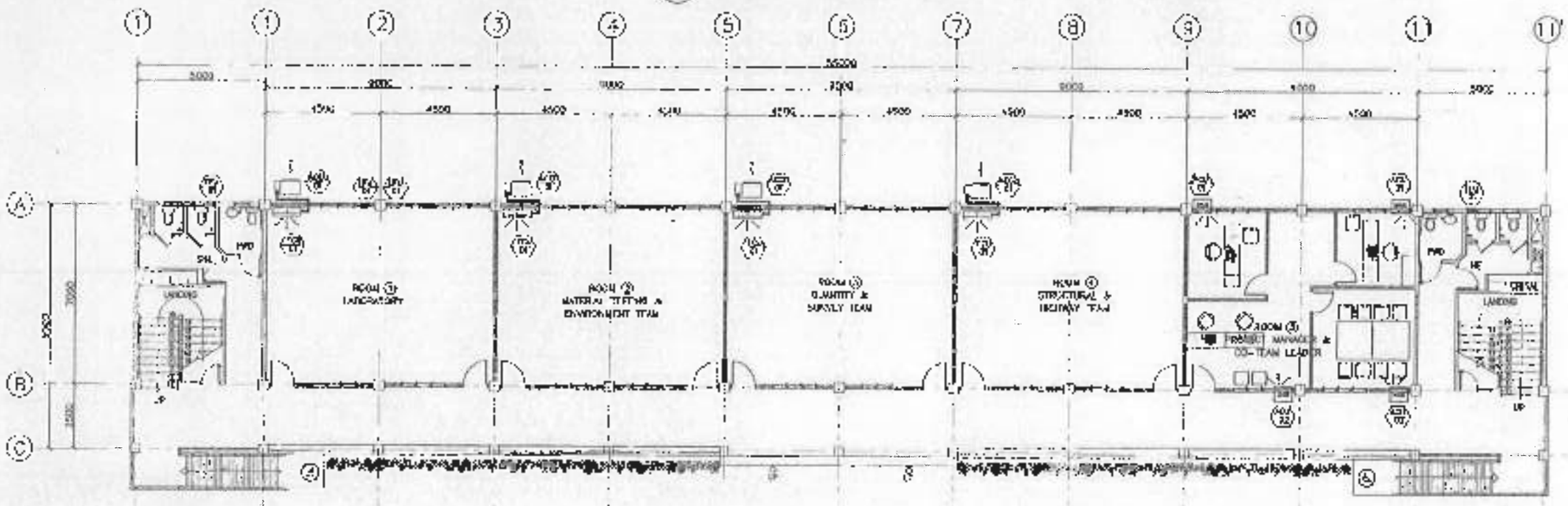
EXHAUST FAN EQUIPMENT SCHEDULE

UNIT NO.	QTY.	AREA SERVED	FAN TYPE	CAPACITY	TSP	ELECTRICAL SUPPLY	POWER INPUT
[illegible]	7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

LEGEND AND SYMBOLS



SECOND FLOOR
MECHANICAL LAYOUT PLAN



GROUND FLOOR
MECHANICAL LAYOUT PLAN

CONSULTANT: NIPPON ASSICO, LTD. / Nippon Engineering Consultants Co., Ltd. / Asiatica & Engineers International / PHILNOCI INTERNATIONAL, INC.	PROJECT MANAGER	PROJECT TITLE AND LOCATION: DAND CITY SEWER INFRASTRUCTURE PROJECT LOTTING PACKAGE 1-5 (ST. 2+[illegible] – ST. 21+[illegible]) REPUBLIC OF [illegible]	PLANT CONTENTS: ENGINEER'S OFFICE & LIVING QUARTERS. GROUND MECHANICAL LAYOUT PLAN	[illegible]	SUBMITTED:	REVIEWED:	RECOMMENDED:	APPROVED:	SHT. NO. / SHEET NO.