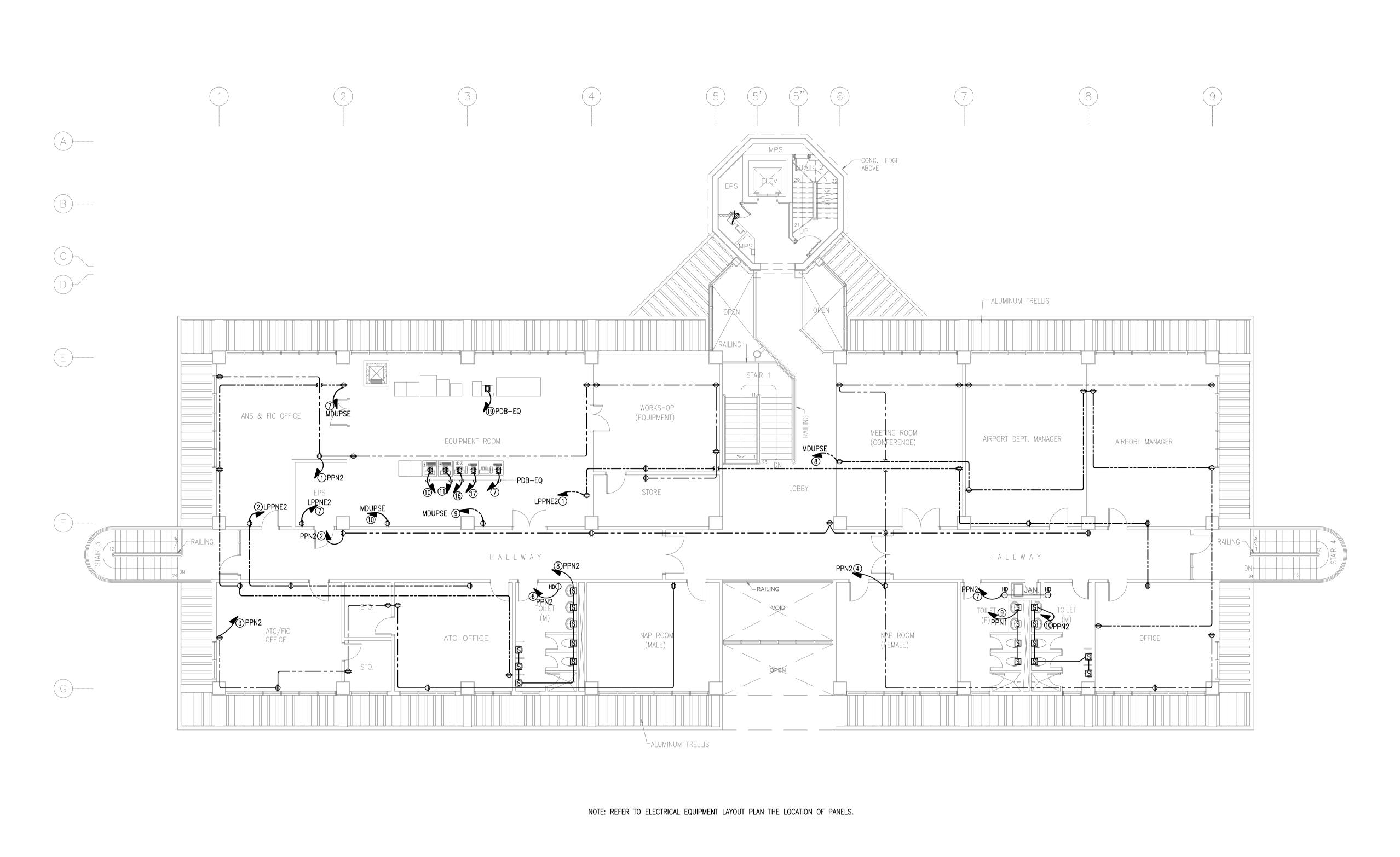


NOTE: REFER TO ELECTRICAL EQUIPMENT LAYOUT PLAN THE LOCATION OF PANELS.

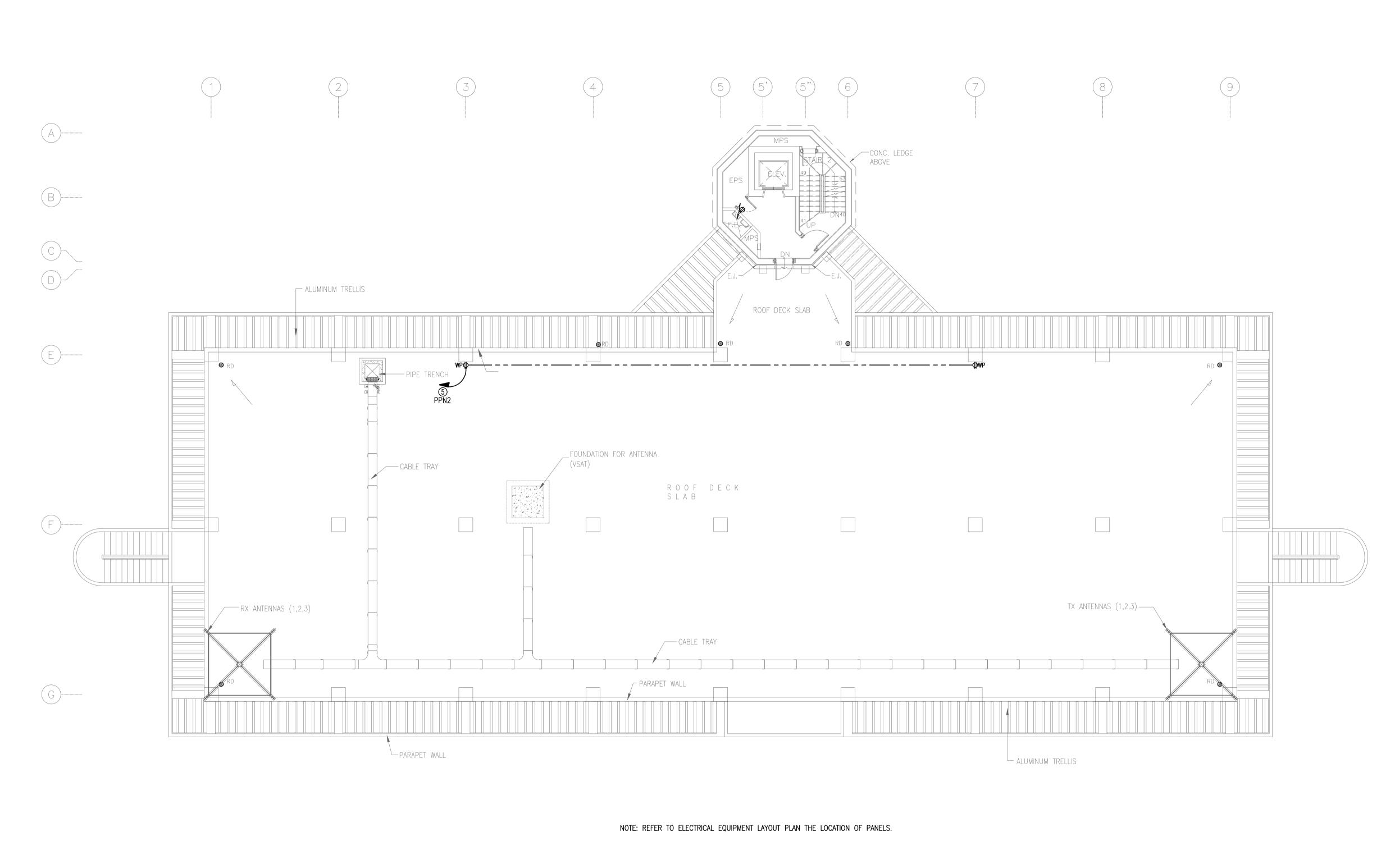


sortation ago		PREPARED BY:	RECOMMENDNG APPROVAL:	APPROVED:	PROJECT TITLE:					SHEET CONTENTS:	SHEET NO:
Republic of the Philippines DEPARTMENT OF TRANSPORTATION	JAPAN INTERNATIONAL COOPERATION AGENCY									COMPONENT-4	B3-6200-01
COMMUNICATIONS	AGENCY	TEODORO N. PAMATMAT PROF: PROF. ELECTRICAL ENGINEER PTR. 1403773			NEW BOHOL AIRPORT CONSTRUCTION AND					BUILDING WORKS (B) SUBCOMPONENT-4-3	00 0200 01
JICA DESIGN CONSULTANT.	JOINT VENTURE	REG. NO.: 1927 DATE: 1-04-13 T.I.N. 119-747-900 PLACE: MANILA			SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	Γ				(B3) Control Tower, ATC Operation	DRAWING SCALE:
JAC S JAPAN AIRPORT CONSULTANTS, INC.	ON KOEI VV NJS CONSULTANTS	TADAÇLII ADI	ILDEFONSO T. PATDU, JR.	JULIANITO G. BUCAYAN, JR.		JUNE 2013			WIM HC	& Administration Building ELECTRICAL	
INC.	, LTD. CO., LTD.	TADASHI AOI Team Leader	Assistant Secretary for Project Implementation, DOTC	Undersecretary for Project Implementation, DOTC	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	DATE	INDEX AMENDMENTS	Prepared by	Checked by Validated by	GRD FLR RECEPTACLE	1:100 m



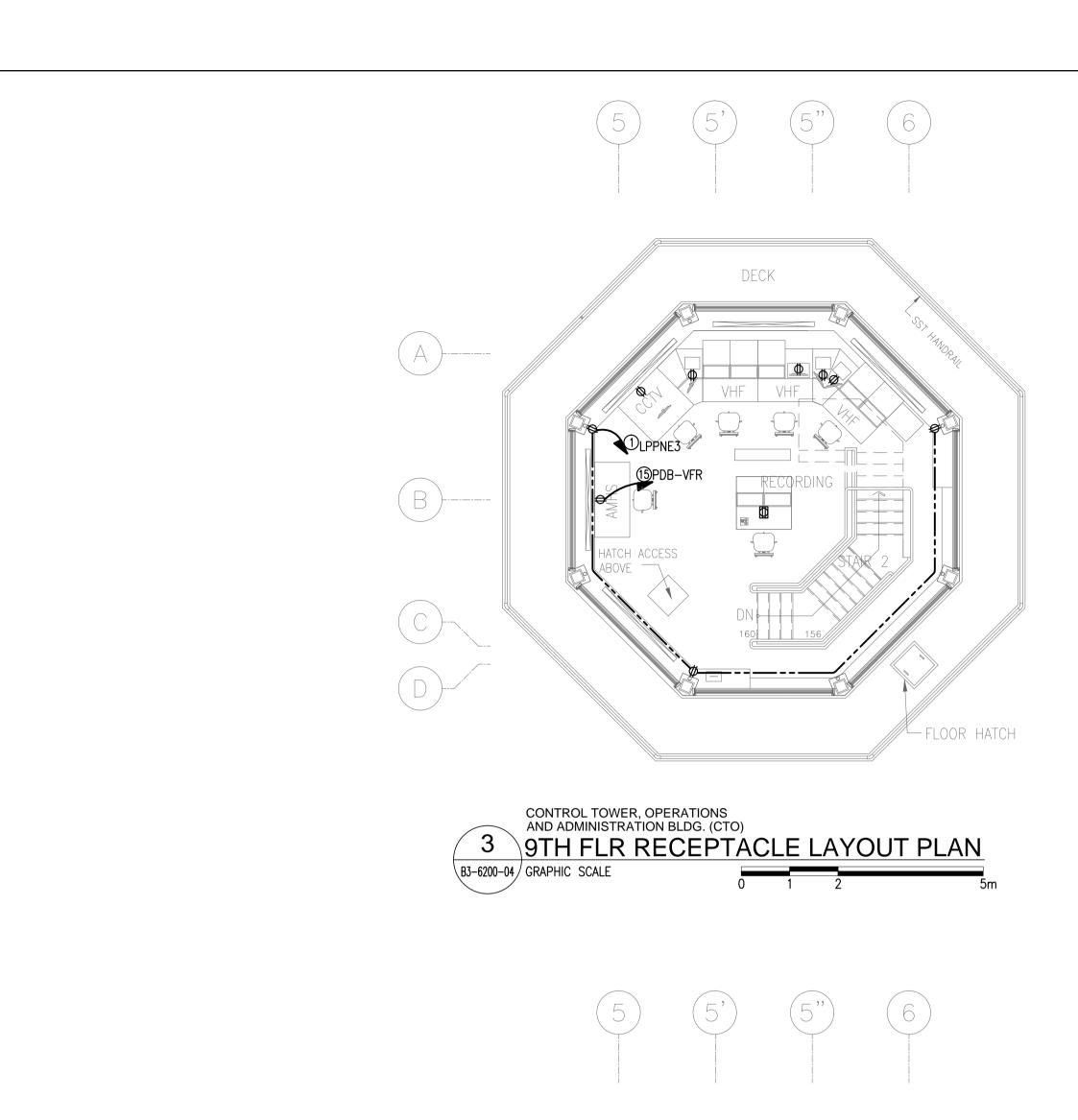


insportation and				PREPARED BY:	RECOMMENDNG APPROVAL:	APPROVED:	PROJECT TITLE:				SHEET CONTENTS:	SHEET NO:
Republic of to	the Philippines F TRANSPORTATION AND	JICA	JAPAN INTERNATIONAL COOPERATION								COMPONENT-4	B3-6200-02
COMMUN	INICATIONS	JICA	AGENCY	TEODORO N. PAMATMAT PROF: PROF. ELECTRICAL ENGINEER PTR. 1403773			NEW BOHOL AIRPORT CONSTRUCTION AND				BUILDING WORKS (B) SUBCOMPONENT-4-3	200 02
JICA D	DESIGN CONSULTANT	JOINT VENTURE		REG. NO.: 1927 DATE: 1-04-13 T.I.N. 119-747-900 PLACE: MANILA			SUSTAINABLE ENVIRONMENT PROTECTION PROJECT				(B3) Control Tower, ATC Operation	DRAWING SCALE:
JAC S JAPAN AIRPO CONSULTAN INC.	PORT NTS, NIPI		NJS CONSULTANTS CO., LTD.	TADASHI AOI	ILDEFONSO T. PATDU, JR.	JULIANITO G. BUCAYAN, JR.		JUNE 2013	,	VIM HC	& Administration Building ELECTRICAL	4.400
INC.		., LTD.	CO., LID.	Team Leader	Assistant Secretary for Project Implementation, DOTC	Undersecretary for Project Implementation, DOTC	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	DATE INDEX AMENDMENTS	Prepared Ch	ecked Validated by	2ND FLR RECEPTACLE	1:100 m



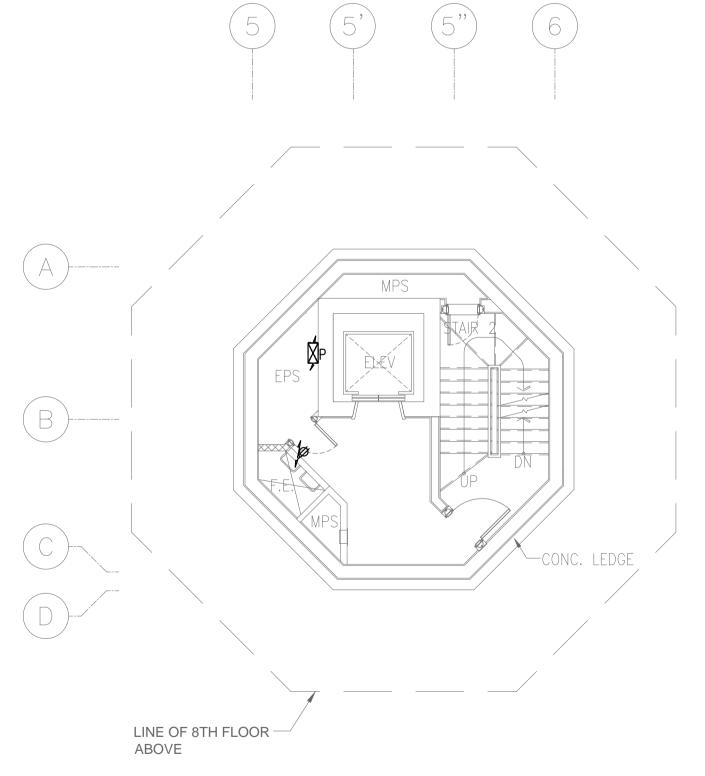


4101 SPOTE	100 110			PREPARED BY:	RECOMMENDNG APPROVAL:	APPROVED:	PROJECT TITLE:						SHEET CONTENTS:	SHEET NO:
iment of	Republic of the Philippines DEPARTMENT OF TRANSPORTATION AND	jica	JAPAN INTERNATIONAL COOPERATION										COMPONENT-4	B3-6200-03
8 p. 0 1 1	COMMUNICATIONS	JICA	AGENCY	TEODORO N. PAMATMAT PROF: PROF. ELECTRICAL ENGINEER PTR. 1403773			NEW BOHOL AIRPORT CONSTRUCTION AND						BUILDING WORKS (B) SUBCOMPONENT-4-3	
	JICA DESIGN CONSU	LTANT JOINT VENTURE		REG. NO.: 1927 DATE: 1-04-13 T.I.N. 119-747-900 PLACE: MANILA			SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	Γ					(B3) Control Tower, ATC Operation	DRAWING SCALE:
JA	JAPAN AIRPORT CONSULTANTS.		NJS CONSULTANTS	TADACHI AOI	ILDEFONSO T. PATDU, JR.	JULIANITO G. BUCAYAN, JR.		JUNE 2013				WIM HC	& Administration Building	
JA	INC.	CO., LTD.	CO., LTD.	TADASHI AOI Team Leader	Assistant Secretary for Project Implementation, DOTC	Undersecretary for Project Implementation, DOTC	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	DATE	INDEX	AMENDMENTS	Prepared by	Checked by Validated by	3RD FLR RECEPTACLE	1:100 m

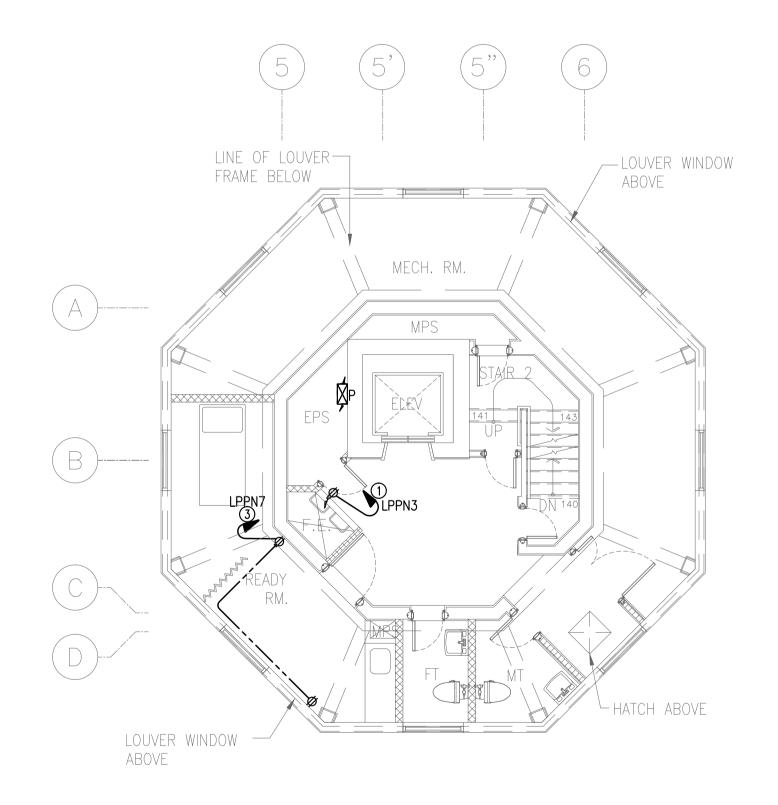


B3-6200-04 GRAPHIC SCALE

B3-6200-04 GRAPHIC SCALE



1 CONTROL TOWER, OPERATIONS AND ADMINISTRATION BLDG. (CTO)
4TH-7TH FLR (TYPICAL) RECEPTACLE LAYOUT PLAN



CONTROL TOWER, OPERATIONS AND ADMINISTRATION BLDG. (CTO)

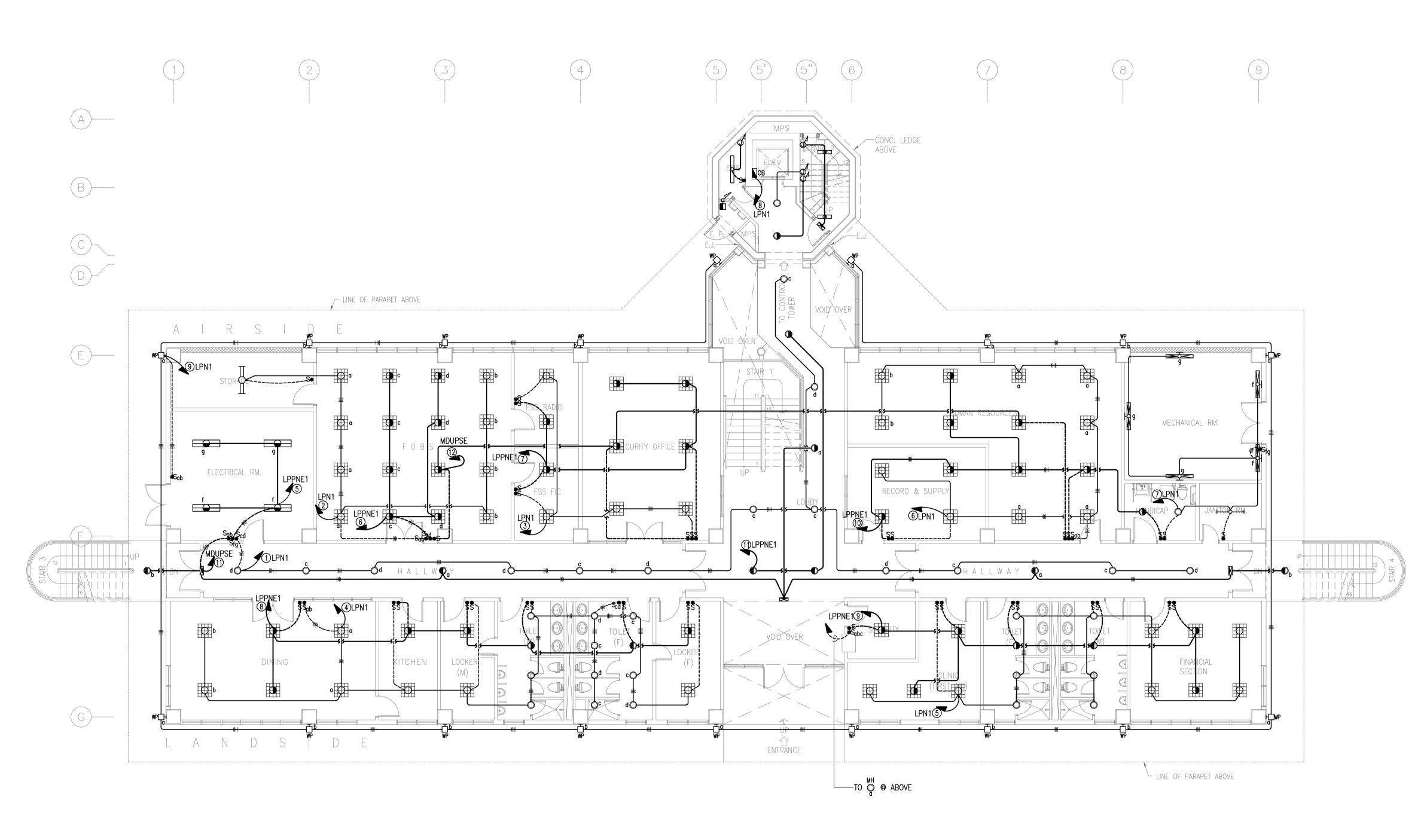
8TH FLR RECEPTACLE LAYOUT PLAN

B3-6200-04 GRAPHIC SCALE

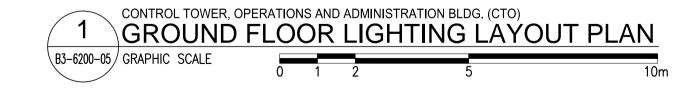
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Light portation does	PREPARED BY:	RECOMMENDNG APPROVAL:	APPROVED: PROJ	JECT TITLE:				SHEET CONTENTS:	SHEET NO:
DEPARTMENT OF TRANSPORTATION AND COOP	PAN VATIONAL ERATION ENCY TEODORO N. PAMATMAT PROF: PROF. ELECTRICAL ENGINEER PTR. 1403773			NEW BOHOL AIRPORT CONSTRUCTION AND				COMPONENT-4 BUILDING WORKS (B) SUBCOMPONENT-4-3	B3-6200-04
JICA DESIGN CONSULTANT JOINT VENTURE	REG. NO.: 1927 DATE: 1-04-13 T.I.N. 119-747-900 PLACE: MANILA		SU	JSTAINABLE ENVIRONMENT PROTECTION PROJECT				(B3) Control Tower, ATC Operation	DRAWING SCALE:
JAC S JAPAN AIRPORT CONSULTANTS, INC. NIPPON KOEI CO., LTD. NIS	CONSULTANTS	ILDEFONSO T. PATDU, JR.	JULIANITO G. BUCAYAN, JR.	JUI	UNE 2013		WIM	HC & Administration Building	4.75
INC. CO., LTD.	CO., LTD. TADASHI AOI Team Leader	Assistant Secretary for Project Implementation, DOTC	Undersecretary for Project Implementation, DOTC	ATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	DATE INDEX	AMENDMENTS	Prepared Checked by by	Validated by 4TH-9TH FLR RECEPTACLE	1:75 m

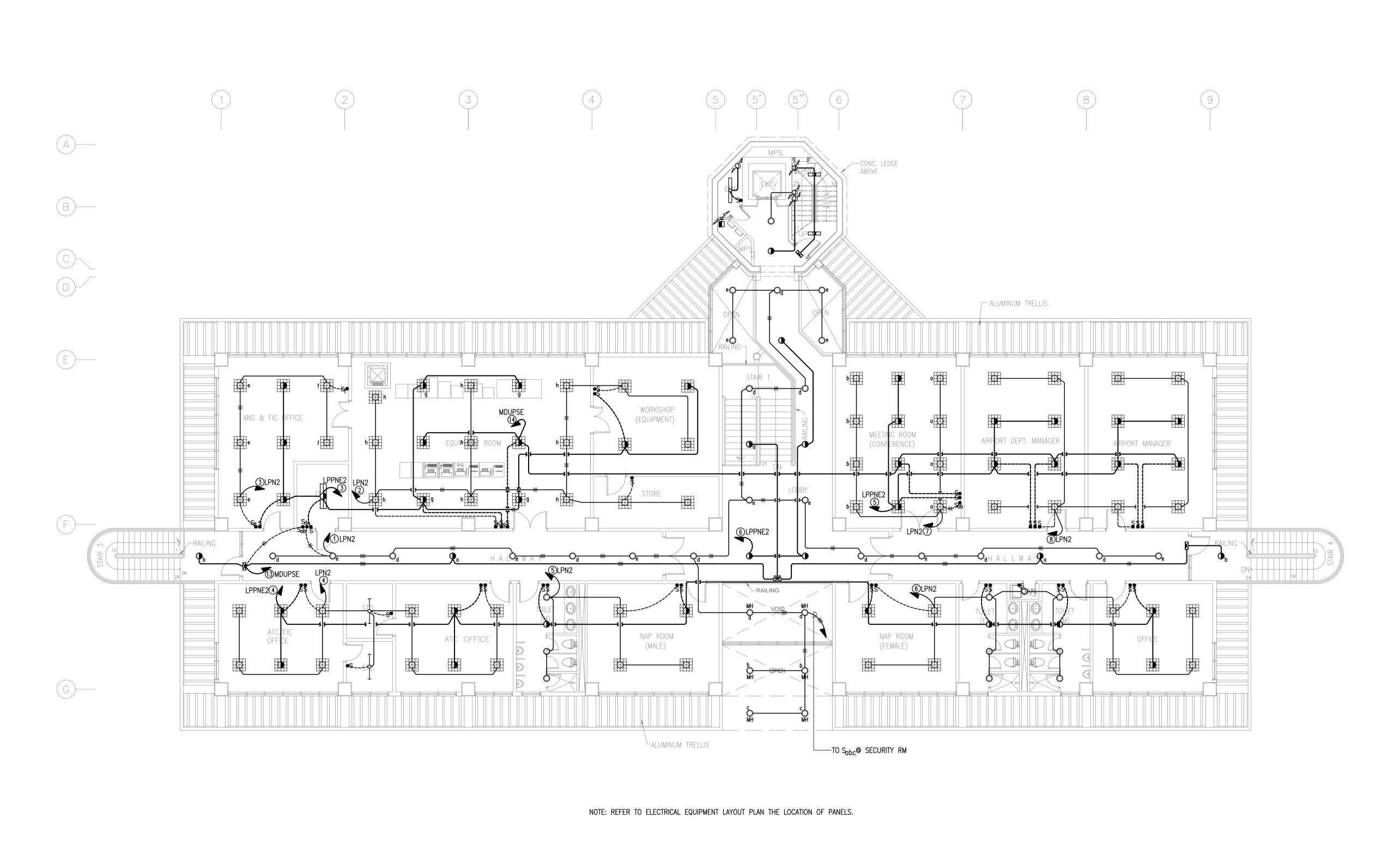
NOTE: REFER TO ELECTRICAL EQUIPMENT LAYOUT PLAN THE LOCATION OF PANELS.



NOTE: REFER TO ELECTRICAL EQUIPMENT LAYOUT PLAN THE LOCATION OF PANELS.

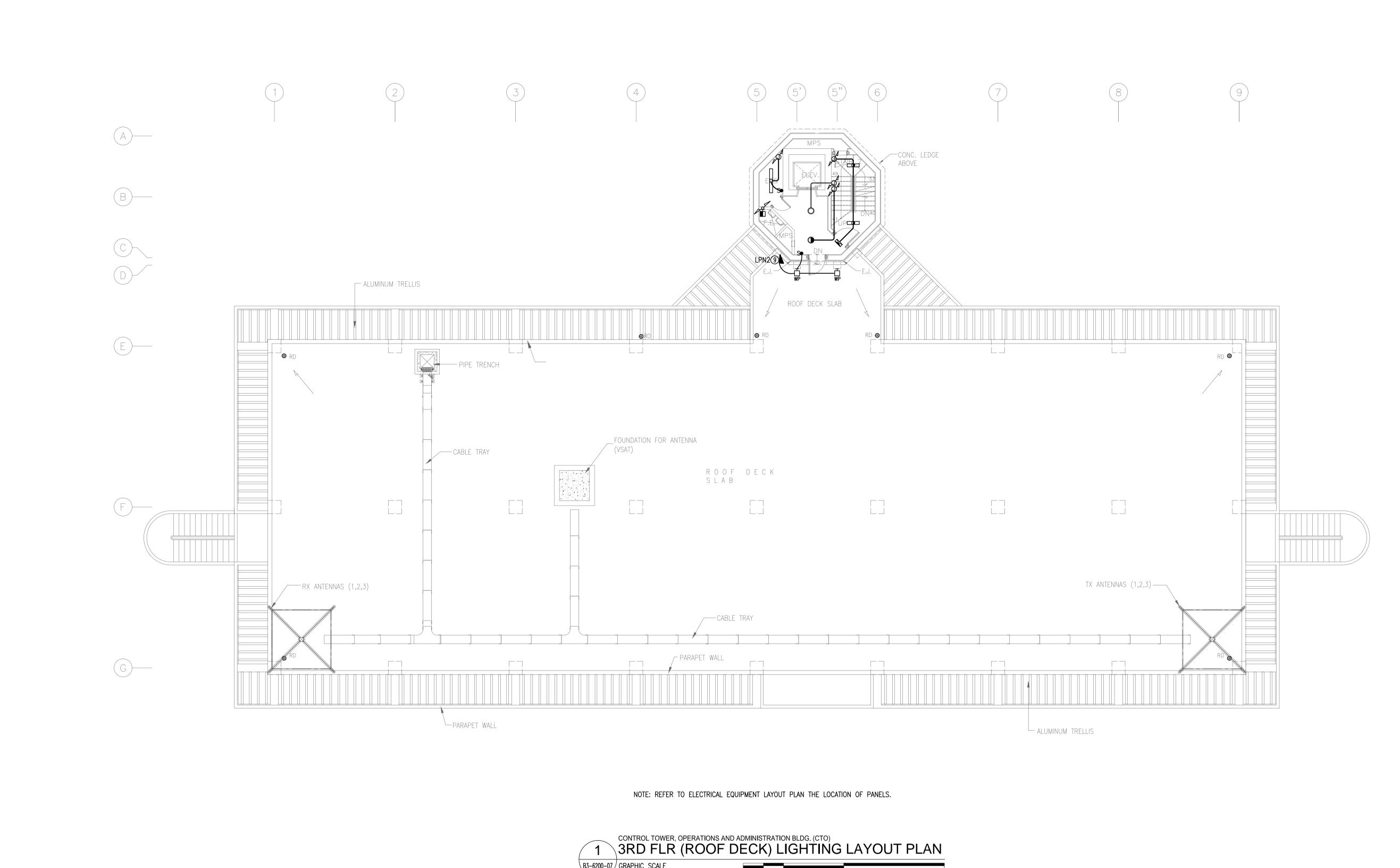


sportation and				PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED:	PROJECT TITLE:					SHEET CONTENTS:	SHEET NO:
1899 THOUSE THE THE THE THE THE THE THE THE THE TH	Republic of the Philippines DEPARTMENT OF TRANSPORTATION AND COMMUNICATIONS	jica	JAPAN INTERNATIONAL COOPERATION AGENCY	TEODORO N. PAMATMAT PROF: PROF. ELECTRICAL ENGINEER PTR. 1403773			NEW BOHOL AIRPORT CONSTRUCTION AND					COMPONENT-4 BUILDING WORKS (B) SUBCOMPONENT-4-3	B3-6200-05
	JICA DESIGN CONSULTA	NT JOINT VENTURE		REG. NO.: 1927 DATE: 1-04-13 T.I.N. 119-747-900 PLACE: MANILA	<u>-</u> -		SUSTAINABLE ENVIRONMENT PROTECTION PROJECT					(B3) Control Tower, ATC Operation	DRAWING SCALE:
JAC	JAPAN AIRPORT CONSULTANTS,		NJS CONSULTANTS	TADAÇLI AOI	ILDEFONSO T. PATDU, JR.	JULIANITO G. BUCAYAN, JR.		JUNE 2013			WIM HC	& Administration Building — ELECTRICAL	
	INC.	CO., LTD.	CO., LTD.	TADASHI AOI Team Leader	Assistant Secretary for Project Implementation, DOTC	Undersecretary for Project Implementation, DOTC	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	DATE INDEX AME	ENDMENTS	Prepared C	necked Validate	d GRD FLR LIGHTING	1:100 m



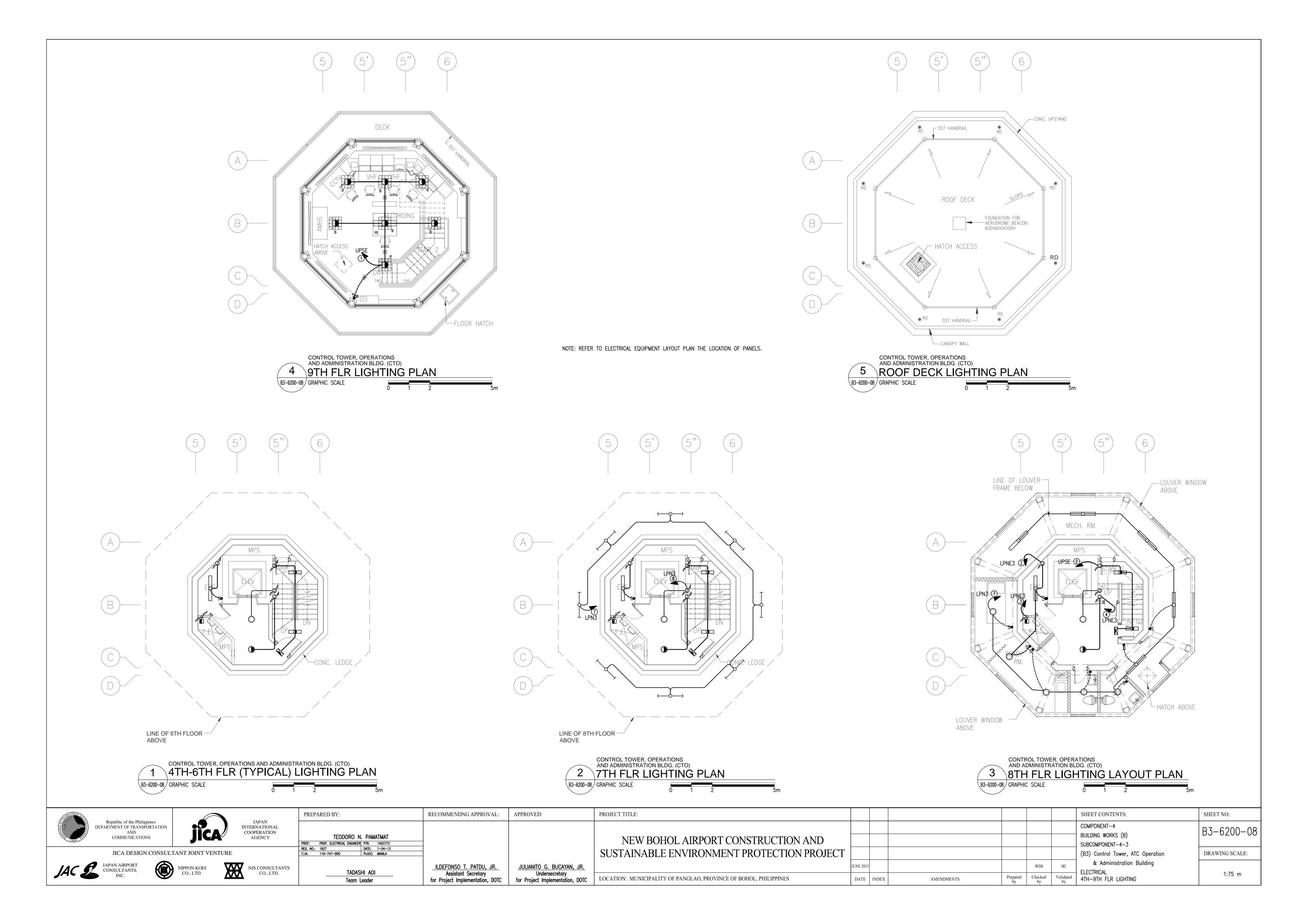


is sortation and company of the comp		PREPARED BY:	RECOMMENDNG APPROVAL:	APPROVED:	PROJECT TITLE:			SHEET CONTENTS:	SHEET NO:
Republic of the Philippines DEPARTMENT OF TRANSPORTATION AND	JAPAN INTERNATIONAL COOPERATION AGENCY							COMPONENT-4	B3-6200-06
COMMUNICATIONS	AGENCY	TEODORO N. PAMATMAT PROF: PROF. ELECTRICAL ENGINEER PTR. 1403773			NEW BOHOL AIRPORT CONSTRUCTION AND			BUILDING WORKS (B) SUBCOMPONENT-4-3	DO 0200 00
JICA DESIGN CONSULT	TANT JOINT VENTURE	REG. NO.: 1927 DATE: 1-04-13 T.I.N. 119-747-900 PLACE: MANILA			SUSTAINABLE ENVIRONMENT PROTECTION PROJECT			(B3) Control Tower, ATC Operation	DRAWING SCALE:
JAC S JAPAN AIRPORT CONSULTANTS, INC.	NIPPON KOEI CO., LTD. NJS CONSULTANTS CO., LTD.	TADASHI AOI	ILDEFONSO T. PATDU, JR.	JULIANITO G. BUCAYAN, JR.		JUNE 2013	WIM	& Administration Building ELECTRICAL	4.400
INC.	CO., LTD.	Team Leader	Assistant Secretary for Project Implementation, DOTC	Undersecretary for Project Implementation, DOTC	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	DATE INDEX AMENDMEN	NTS Prepared Checked Vali by by	dated 2ND FLR LIGHTING	1:100 m





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Republic of the DEPARTMENT OF THE ANI	RANSPORTATION		JAPAN INTERNATIONAL COOPERATION								COMPONENT-4	B3-6200-07
COMMUNIO	CATIONS	JICA	AGENCY	TEODORO N. PAMATMAT PROF: PROF. ELECTRICAL ENGINEER PTR. 1403773			NEW BOHOL AIRPORT CONSTRUCTION AND				BUILDING WORKS (B) SUBCOMPONENT-4-3	D3 0200 07
JICA DE	SIGN CONSULTANT	OINT VENTURE		REG. NO.: 1927 DATE: 1-04-13 T.I.N. 119-747-900 PLACE: MANILA	_		SUSTAINABLE ENVIRONMENT PROTECTION PROJECT				(B3) Control Tower, ATC Operation	DRAWING SCALE:
JAC S JAPAN AIRPOR CONSULTANT INC.	RT NIPPO		NJS CONSULTANTS	TADASHI AOI	ILDEFONSO T. PATDU, JR.	JULIANITO G. BUCAYAN, JR.		JUNE 2013		WIM HC	& Administration Building	
INC.	CO.	LTD.	CO., LTD.	Team Leader	Assistant Secretary for Project Implementation, DOTC	Undersecretary for Project Implementation, DOTC	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	DATE INDEX	AMENDMENTS Prepar by	cd Checked Validated by	ELECTRICAL 3RD FLR LIGHTING	1:100 m



PANEL:	MDUPSE	VOLTAGE:	23	30V 3ø 3	W		SUPPLY:	NORMAL/EMERGE	ENCY/UPS
TO:	230V LVSGNE-CTO					-	_		
NZT NO	LOAD DESCRIPTION	VA		AMPERI	LOAD		WIDE	CONDUIT	DDOTECTION
KT NO.	LOAD DESCRIPTION	VA	ØAB	øВС	øСА	3ø LOAD	WIRE	CONDUIT	PROTECTION
1	PANEL "UPSE" (8TH FLR)	3480	15.13				2-10mm ² XLPE + 1-8mm ² TW	25mmØ/CABLE TRAY	30AT 2P MCCE
2	SPARE								30AT 2P MCCE
3	SUPPLY FOR CCTV EQUIPMENT @ SECURITY OFFICE (GRD FLR)	3000			13.04		3-3.5mm² THHN	15mmØ	20AT, 2P CB
4	2 - COMPUTER OUTLET @ SECURITY OFFICE (GRD FLR)	800	2.61				3-3.5mm² THHN	15mmØ	20AT, 2P CB
5	6 - COMPUTER OUTLET @ RECORS & H.R. (GRD FLR)	2400		10.43			3-3.5mm² THHN	15mmØ	20AT, 2P CB
6	3 - COMPUTER OUTLET @ CLINIC & FINANCIAL SECTION (GRD FLR)	1200			5.21		3-3.5mm² THHN	15mmØ	20AT, 2P CB
7	4 - COMPUTER OUTLET @ ATC, FTC/FIC OFFICES (2ND FLR)	1600	6.95				3-3.5mm² THHN	15mmØ	20AT, 2P CB
8	6 - COMPUTER OUTLET @ CONF. MANAGERS & OFFICE (2ND FLR)	2400		10.43			3-3.5mm² THHN	15mmØ	20AT, 2P CB
9	SUPPLY FOR CLOCK SYSTEM @ EQUIP. RM (2ND FLR)	1000			4.34		3-3.5mm² THHN	15mmØ	20AT, 2P CB
10	SUPPLY FOR IDF-CTO @ EQUIP. RM (2ND FLR)	500	2.17				3-3.5mm² THHN	15mmØ	20AT, 2P CB
11	3 - 10W SIGNAGE + 3 - 18W PLC @ HALLWAY (GRD FLR)	105		0.45			3-3.5mm² THHN	15mmØ	20AT, 2P CB
12	3 - 4x20W FLUO. @ FOBS, SECURITY & H.R. (GRD FLR)	300			1.3		3-3.5mm² THHN	15mmØ	20AT, 2P CB
13	3 - 10W SIGNAGE + 3 - 18W PLC @ HALLWAY (2ND FLR)	105	0.45				3-3.5mm² THHN	15mmØ	20AT, 2P CB
14	5 - 4x20W FLUO. @ EQUIP. RM, CONFERENCE & DEPT. MANAGERS	500		2.17			3-3.5mm² THHN	15mmØ	20AT, 2P CB
15	SPARE								20AT, 2P CB
16	SPARE								20AT, 2P CB
17	SPARE								20AT, 2P CB
18	SPARE								20AT, 2P CB
		17390	27.31	23.48	23.89				

 $IT = 27.31 \times 1.732 = 47.3 A$

FEEDER SIZE: 3-10mm² XLPE + 1-8mm² TW

MAIN PROTECTION: 30AT, 50AF 2P MCCB, 10kAIC

MAIN PROTECTION: 75AT, 100AF 3P MCCB, 10kAIC

2 16 - 20W FLUO. + 8 - 10W EXIT SIGNAGE @ STAIRS 500 2.17 3-3.5mm² THHN 15mmØ 20AT, 2P 3 SUPPLY FOR ELECTRONIC KEY CARD (8TH FLR) 100 0.43 3-3.5mm² THHN 15mmØ 20AT, 2P 4 SPARE 5 SPARE 20AT, 2P 20AT, 2P 6 SPARE 5 SPARE 5 20AT, 2P	PANEL:	UPSE	VOLTAGE:	2.	30V 1ø 2	2W		SUPPLY:	NORMAL/EM	ERGENCY/UPS
CKT NO. LOAD DESCRIPTION VA WAB ØBC ØCA 3ø LOAD WIRE CONDUIT PROTECT	TO:	MDUPSE-CTO	_					_		
1 7 - 4x20W FLUO. @ VFR RM 1400 6.08 3-3.5mm² THHN 15mmØ 20AT, 2P	CKT NO	LOAD DESCRIPTION	\/A		AMPER	E LOAD		WIDE	CONDUIT	DROTECTION
2 16 - 20W FLUO. + 8 - 10W EXIT SIGNAGE @ STAIRS 500 2.17 3-3.5mm² THHN 15mmØ 20AT, 2P 3 SUPPLY FOR ELECTRONIC KEY CARD (8TH FLR) 100 0.43 3-3.5mm² THHN 15mmØ 20AT, 2P 4 SPARE 20AT, 2P 5 SPARE 20AT, 2P 6 SPARE 20AT, 2P	CKI NO.	LUAD DESCRIPTION	VA	ØAB	ØBC	øСА	3ø LOAD	WIRE	CONDUIT	PROTECTION
3 SUPPLY FOR ELECTRONIC KEY CARD (8TH FLR) 100 0.43 3—3.5mm² THHN 15mmØ 20AT, 2P 4 SPARE 20AT, 2P 5 SPARE 20AT, 2P 6 SPARE 20AT, 2P	1	7 - 4x20W FLUO. @ VFR RM	1400	6.08				3-3.5mm² THHN	15mmØ	20AT, 2P CB
4 SPARE 20AT, 2P 5 SPARE 20AT, 2P 6 SPARE 20AT, 2P	2	16 - 20W FLUO. + 8 - 10W EXIT SIGNAGE @ STAIRS	500	2.17				3-3.5mm² THHN	15mmØ	20AT, 2P CB
5 SPARE 20AT, 2P 6 SPARE 20AT, 2P	3	SUPPLY FOR ELECTRONIC KEY CARD (8TH FLR)	100	0.43				3-3.5mm² THHN	15mmØ	20AT, 2P CB
6 SPARE 20AT, 2P	4	SPARE								20AT, 2P CB
	5	SPARE								20AT, 2P CB
2000 8.68	6	SPARE								20AT, 2P CB
			2000	8.68						
		IT = 8.68 A								

PANEL:	PACNE1	VOLTAGE:	2	30V 3ø 3	SW	_	SUPPLY: _	NORMAL/E	MERGENCY
TO:	230V LVSGNE-CTO								
OKT NO	LOAD DESCRIPTION	VA		AMPER	E LOAD		WIDE	CONDUIT	DDOTECTION
CKT NO.	LOAD DESCRIPTION	VA	ØAB	øВС	øСА	3ø LOAD	WIRE	CONDUIT	PROTECTION
1	VRF-1	23000				57.7	3-22mm ² THHN, 1-8mm ² TW	30mmØ	100AT, 2P CB
2	VRF-2	23000				57.7	3-22mm ² THHN, 1-8mm ² TW	15mmØ	100AT, 2P CB
3	FAN 1A, 1D, 2, 3	280	1.21				3-3.5mm² THHN	20mmØ	20AT, 2P CB
4	FAN 4A, 4B, Fan 5 to 9	490		2.13			3-3.5mm² THHN	20mmØ	20AT, 2P CB
5	FAN 13A, 13B, 10B, 14A, 11A, 11B, 14B, 14C	560			2.43		3-3.5mm² THHN	20mmØ	20AT, 2P CB
6	FAN 10A, 12, 15A, 15B, 16A, 16B, 17, 18	945	4.10				3-3.5mm² THHN	20mmØ	20AT, 2P CB
7	FAN FILTER UNIT	4625				11.61	4-5.5mm² THHN	20mmØ	30AT, 2P CB
8	SPARE			2.17					20AT, 2P CB
9	SPARE				2.17				20AT, 2P CB
10	SPARE								
		52900	5.31	4.30	4.60	127.01			

 $IT = 5.31 \times 1.732 + 127.01 + 25\%(57.7) = 150.62 A$ FEEDER SIZE: $3-35 \text{mm}^2 \text{ XLPE } + 1-8 \text{mm}^2 \text{ TW}$ MAIN PROTECTION: 200AT, 200AF 3P MCCB, 10kAIC

PANEL:	PACNE4	VOLTAGE:	2	30V 3ø 3	3W	_	SUPPLY:	NORMAL/	EMERGENCY
TO:	230V LVSGNE-CTO								
CKT NO.	LOAD DESCRIPTION	VA		AMPER	E LOAD		WIRE	CONDUIT	PROTECTION
CKI NO.	LOAD DESCRIPTION	VA	ØAB	ØBC	øСА	3ø LOAD	WIRE	CONDOIL	PROTECTION
1	10.65KW VRF SERVING 9TH FLR	13310				33.42	$[3-8\text{mm}^2 + 5.5\text{mm}^2]$ THHN	25mmØ	50AT, 3P MCCB
2	10.65KW VRF SERVING 9TH FLR (STANDBY)	13310				33.42	$[3-8\text{mm}^2 + 5.5\text{mm}^2]$ THHN	25mmØ	50AT, 3P MCCB
3	550W FAF SERVING CONTROL TOWER	690				1.73	$[3-3.5 \text{mm}^2 + 3.5 \text{mm}^2] \text{ THHN}$	15mmØ	20AT, 3P MCCB
4	SPARE								30AT, 3P MCCB
5	2 - 108W FCU SERVING 9TH FLR	270	1.17				3-3.5mm² THHN	15mmØ	20AT, 2P CB
6	2 - 108W FCU SERVING 9TH FLR (STANDBY)	270		1.17			3-3.5mm² THHN	15mmØ	20AT, 2P CB
7	750W FAF SERVING STAIRWELL	940			4.08		3-3.5mm² THHN	15mmØ	20AT, 2P CB
8	570W EF SERVING EPS (GRD FLR-6TH FLR)	710	3.10				3-3.5mm² THHN	15mmØ	20AT, 2P CB
9	370W EF SERVING 8TH FLR (MECH RM & STORAGE)	460		2.01			3-3.5mm² THHN	15mmØ	20AT, 2P CB
10	2 - 30W EF SERVING TOILET (8TH FLR)	80		0.33			3-3.5mm² THHN	15mmØ	20AT, 2P CB
11	SPARE								20AT, 2P CB
12	SPARE								20AT, 2P CB
		30040	4.27	3.51	4.08	68.56			

 $I\tau = 4.27 \times 1.732 + 68.56 + 33.42(25\%) = 84.3 A$ FEEDER SIZE: 3-25mm² XLPE + 1-8mm² TW

MAIN PROTECTION: 100AT, 100AF 3P MCCB, 10kAIC

PANEL	: LPNE1	VOLTAGE:	23	30V 3ø 3	3W		SUPPLY:	NORMAL/E	EMERGENCY
го:	230V LVSGNE-CTO					_			
CKT NO.	LOAD DESCRIPTION	VA		AMPER	E LOAD		WIRE	CONDUIT	DROTECTION
JNI NO.	LOAD DESCRIPTION	VA	ØAB	ØBC	øСА	3ø LOAD	WIRE	CONDUIT	PROTECTION
1	2 - CONV. RECEP. @ EE RM-1	720		3.13			3-3.5mm² THHN	15mmØ	20AT, 2P CB
2	4 - CONV. RECEP. @ FOBS, FSS RADIO, FSS RM @ SECURITY RM	1440		6.26			3-3.5mm² THHN	15mmØ	20AT, 2P CB
3	3 - CONV. RECEP. @ CLINIC, H.R. & FINANCIAL SECTION	1080			4.70		3-3.5mm² THHN	15mmØ	20AT, 2P CB
4	SUPPLY FOR FACP-2	2000	8.70				3-3.5mm² THHN	15mmØ	20AT, 2P CB
5	4 - 2x40W FLUO. @ EE RM-1	400		1.74			3-3.5mm² THHN	15mmØ	20AT, 2P CB
6	7 - 4x20W FLUO. @ FOBS	700			3.04		3-3.5mm² THHN	15mmØ	20AT, 2P CB
7	5 - 4x20W FLUO. @ FSS RMs & SECURITY OFFICE	500	2.17				3-3.5mm² THHN	15mmØ	20AT, 2P CB
8	5 - 4x20W FLUO. + 2 - 18W PLC @ DINING, LOCKERS @ TOILETS	500		2.17			3-3.5mm² THHN	15mmØ	20AT, 2P CB
9	5 - 4x20W FLUO. + 2 - 18W PLC @ SEC. RM, CLINIC, TOILETS & FINANCIAL	500			2.17		3–3.5mm² THHN	15mmØ	20AT, 2P CB
10	6 - 4x20W FLUO. + 1 - 18W PLC @ RECORDS, H.R. @ HANDICAP	600	2.6				3-3.5mm² THHN	15mmØ	20AT, 2P CB
11	3 - 18W PLC @ HALLWAY & LOBBY	68		0.3			3-3.5mm² THHN	15mmØ	20AT, 2P CB
12	ELEVATOR	12500				31.38	4-8.0mm² THHN	25mmØ	50AT, 3P CB
13	SPARE								20AT, 2P CB
14	SPARE								20AT, 2P CB
15	SPARE								20AT, 2P CB
		21008	13.47	13.6	9.91	31.38			

 $I\tau = 13.47 \times 1.732 + 31.38 + 25\%(31.38) = 62.55 A$ FEEDER SIZE: $3-16\text{mm}^2 \text{ XLPE } + 1-5.5\text{mm}^2 \text{ TW}$ MAIN PROTECTION: 100AT, 100AF 3P MCCB, 10kAIC

PANEL:	LPNE2	VOLTAGE:	23	30V 3ø 3	SW		SUPPLY:	NORMAL/E	MERGENCY
го:	230V LVSGNE-CTO	-				_	_		
KT NO.	LOAD DECORIDATION	VA		AMPERI	E LOAD		WIRE	CONDUIT	PROTECTION
KI NO.	LOAD DESCRIPTION	VA	ØAB	øВС	øСА	3ø LOAD	WIKE	CONDOIT	
1	6 - CONV. RECEP. @ EQUIP., WORKSHOP, CONF., MNGRS & OFFICE	2160	9.39				3-3.5mm² THHN	15mmØ	20AT, 2P CB
2	3 - CONV. RECEP. @ ANS, FIC & ATC OFFICE	1080		4.70			3-3.5mm² THHN	15mmØ	20AT, 2P CB
3	9 - 4x20W FLUO. + 1 - 40W FLUO. @ EPS, ANS,	950			4.13		3-3.5mm² THHN	15mmØ	20AT, 2P CB
	EQUIP. RM & WORKSHOP				7.10		3 3.311111 1111114	131111119	20/1, 21 00
4	8 - 4x20W FLUO. + 3 - 18W PLC @ ATC/FIC,	868			3.77		3-3.5mm² THHN	15mmØ	20AT, 2P CB
·	TOILETS, NAP RMS & OFFICE	000			0.77		3 3.311111 1111114	10111119	20/1, 21 00
5	9 - 4x20W FLUO. @ CONFERENCE & DEPT. MANAGERS	900		3.91			3-3.5mm² THHN	15mmØ	20AT, 2P CB
6	4 - 18W PLC @ HALLWAY & LOBBY	90			0.39		3-3.5mm² THHN	15mmØ	20AT, 2P CB
7	SPARE								20AT, 2P CB
8	SPARE								20AT, 2P CB
9	SPARE								20AT, 2P CB
10	SPARE								20AT, 2P CB
11	SPARE								20AT, 2P CB
12	SPARE								20AT, 2P CB
		6048	9.39	8.61	8.29				

AMENDMENTS

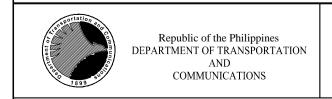
 $IT = 9.39 \times 1.732 = 16.26 A$

FEEDER SIZE: 3-6mm² XLPE + 1-5.5mm² TW MAIN PROTECTION: 50AT, 50AF 3P MCCB, 10kAIC

JUNE 2013

DATE | INDEX |







JAPAN INTERNATIONAL COOPERATION AGENCY

	PREPARED BY:			
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	PROF: PROF. ELECTRICAL ENGINEER		1403773	
-	REG. NO.: 1927	DATE:	1-04-13	
	T.I.N. 119-747-900	PLACE:	MANILA	
	TADAS	HI AOI		

ILDEFONSO T. PATDU, JR. JULIANITO G. BUCAYAN, JR. Assistant Secretary
for Project Implementation, DOTC Undersecretary
for Project Implementation, DOTC

LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES Team Leader

RECOMMENDNG APPROVAL:

APPROVED:

PROJECT TITLE:
NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT

			SHEET CONTENTS:
			COMPONENT-4
			BUILDING WORKS (B)
			SUBCOMPONENT-4-3
			(B3) Control Tower, ATC Operation
	WIM	НС	& Administration Building
			ELECTRICAL
Prepared by	Checked by	Validated by	PANEL SCHEDULE1

B3-6200-09 DRAWING SCALE: NTS

SHEET NO:





JICA DESIGN CONSULTANT JOINT VENTURE





PANEL:	LPNE3	VOLTAGE:	23	30V 3ø 3	5W	_	SUPPLY: _	NORMAL/E	EMERGENCY
TO:	230V LVSGNE-CTO								
CKT NO.	LOAD DESCRIPTION	VA		AMPERI	E LOAD		WIRE	CONDUIT	PROTECTION
CKI NO.	LUAD DESCRIPTION	VA	øΑΒ	øBC	øСА	3ø LOAD	WIRE	CONDOIT	PROTECTION
1	3 - CONV. RECEP. @ VFR RM	1080	4.70				3-3.5mm² THHN	15mmØ	20AT, 2P CB
2	8 - 40W FLUO. + 1 - 18W PLC @ EPS 1-8 @ READY RM	423		3.07			3-3.5mm² THHN	15mmØ	20AT, 2P CB
3	8 - 18W WALL LAMP @ F.E. LADDER 1-8	180			2.26		3-3.5mm² THHN	15mmØ	20AT, 2P CB
4	8 - 18W PLC @ ELEVATOR LOBBY 1-8	180			2.26		3-3.5mm² THHN	15mmØ	20AT, 2P CB
5	SPARE								20AT, 2P CB
6	SPARE								20AT, 2P CB
		1863	4.70	3.07	4.52				

 $IT = 4.70 \times 1.732 = 8 A$

FEEDER SIZE: 3-6mm² XLPE + 1-5.5mm² TW MAIN PROTECTION: _30AT, 100AF 3P MCCB, 10kAIC

PANEL:	PPN1	VOLTAGE:	23	30V 3ø 3	SW		SUPPLY:	NORMA	L ONLY
го:	230V LVSGN	-				_	_		
CKT NO.	LOAD DESCRIPTION	VA	ØAB	AMPER ØBC	E LOAD ØCA	3ø LOAD	WIRE	CONDUIT	PROTECTION
1	4 - CONV. RECEP. @ HALLWAY	1440	6.26	PDC	POA	JP LOAD	3-3.5mm² THHN	15mmØ	20AT, 2P CB
2	5 - CONV. RECEP. @ STORAGE, FOBS, RECORDS & H.R.	1800		7.83			3-3.5mm² THHN	15mmØ	20AT, 2P CB
3	8 - CONV. RECEP. @ DINING & KITCHEN	2880			12.52		3-3.5mm² THHN	15mmØ	20AT, 2P CB
4	5 - CONV. RECEP. @ LOCKER M&F, CLINIC & FINANCIAL SECTION	1800		7.83			3-3.5mm² THHN	15mmØ	20AT, 2P CB
5	1 - CONV. RECEP. @ ME RM	360	1.57				3-3.5mm² THHN	15mmØ	20AT, 2P CB
6	2 - 1000VA HAND DRYER OUTLET @ TOILET M1&F1	2000			8.70		3-3.5mm² THHN	15mmØ	20AT, 2P CB
7	2 - 1000VA HAND DRYER OUTLET @ TOILET M2&F2	2000	8.70				3-3.5mm² THHN	15mmØ	20AT, 2P CB
8	1 - 1000VA HAND DRYER OUTLET @ HANDICAP	1000		4.35			3-3.5mm² THHN	15mmØ	20AT, 2P CB
9	8 - SENSOR SUPPLY @ TOILET M-	100			0.43		3-3.5mm² THHN	15mmØ	20AT, 2P CB
10	5 - SENSOR SUPPLY @ TOILET F-1	100	0.43				3-3.5mm² THHN	15mmØ	20AT, 2P CB
11	5 - SENSOR SUPPLY @ TOILET F-2	100		0.43			3-3.5mm² THHN	15mmØ	20AT, 2P CB
12	8 - SENSOR SUPPLY @ TOILET M-2	100		0.43			3-3.5mm² THHN	15mmØ	20AT, 2P CB
13	2 - SENSOR SUPPLY @ HANDICAP	100	0.43				3-3.5mm² THHN	15mmØ	20AT, 2P CB
14	1/4HP ELEVATOR SUMP PUMP (ASSUMED)	670	2.90				3-3.5mm² THHN	15mmØ	20AT, 2P CB
15	1 - MAINTENANCE OUTLET @ ELEVATOR SHAFT	180			0.78		3-3.5mm² THHN	15mmØ	20AT, 2P CB
16	187W EF @ STORAGE (FOBS)	230	1.02				3-3.5mm² THHN	15mmØ	20AT, 2P CB
17	187W EF JANITOR RM & HANDICAP	230		1.02			3-3.5mm² THHN	15mmØ	20AT, 2P CB
18	141W EF @ KITCHEN	180			0.77		3-3.5mm² THHN	15mmØ	20AT, 2P CB
19	SPARE								20AT, 2P CB
20	SPARE								20AT, 2P CB
21	SPARE								20AT, 2P CB
		15270	21.31	21.89	23.20				

 $IT = 23.20 \times 1.732 = 40.18 A$

FEEDER SIZE: 3-6mm² XLPE + 1-5.5mm² TW MAIN PROTECTION: 75AT, 100AF 3P MCCB, 10kAIC

PANEL:	LPN1	VOLTAGE:	2	30V 3ø 3	SW		SUPPLY:	NORMA	L ONLY
TO:	230V LVSGN-CTO								
CKT NO.	LOAD DESCRIPTION	VA		AMPER	E LOAD		WIRE	CONDUIT	PROTECTION
CKI NO.	LOAD DESCRIPTION	VA	øΑΒ	øВС	øСА	3ø LOAD	WIRE	CONDOTT	PROTECTION
1	14 - 18W PLC @ HALLWAY & LOBBY	315	1.4				3-3.5mm ² THHN	15mmØ	20AT, 2P CB
2	8 - 4x20W FLUO. @ FOBS + $1 - 2x40W$ @ STO.	900		3.91			3-3.5mm ² THHN	15mmØ	20AT, 2P CB
3	4 - 4x20W FLUO. @ FSS RMs & SECURITY OFFICE	400			1.74		3-3.5mm ² THHN	15mmØ	20AT, 2P CB
4	7 — 4x20W FLUO. + 10 — 18W PLC @ DINING, KITCHEN, TOILETS & NAP RM	925	4.02				3-3.5mm² THHN	15mmØ	20AT, 2P CB
5	6 - 4x20W FLUO. + 6 - 18W PLC @ CLINIC, TOILETS & OFFIC	735		3.2			3-3.5mm² THHN	15mmØ	20AT, 2P CB
6	9 - 4x20W FLUO. @ RECORDS & H.R.	900			3.91		3-3.5mm² THHN	15mmØ	20AT, 2P CB
7	6 - 40W FLUO. + 1 - 18W PLC @ ME RM, JANITOR & HANDICAP	323	1.4				3-3.5mm² THHN	15mmØ	20AT, 2P CB
8	CB FOR ELEVATOR SHAFT LIGHTS RISER	520	2.26				3-3.5mm² THHN	15mmØ	20AT, 2P CB
9	18 - 18W WALL LAMP @ PERIMETER	405			1.76		3-3.5mm² THHN	15mmØ	20AT, 2P CB
10	SPARE								20AT, 2P CB
11	SPARE								20AT, 2P CB
12	SPARE								20AT, 2P CB
		5423	9.08	7.11	7.41		·		

 $IT = 9.08 \times 1.732 = 15.72 A$

3-6mm² XLPE + 1-5.5mm² TW FEEDER SIZE:

MAIN PROTECTION: 50AT, 100AF 3P MCCB, 10kAIC

PANEL:	PPN2	VOLTAGE:	23	30V 3ø 3	W		SUPPLY:	NORMA	L ONLY
TO:	230V LVSGN-CTO	-				_			
CKT NO.	LOAD DESCRIPTION	VA		AMPER	E LOAD		WIRE	CONDUIT	PROTECTION
AL NO.	LOAD DESCRIPTION	VA	ØAB	øВС	øСА	3ø LOAD	WIRE	CONDOIT	PROTECTION
1	8 - CONV. RECEP. @ ANS&FIC, EQUIP. RM, WORKSHOP & STORAGE	2880	12.52				3-3.5mm² THHN	15mmØ	20AT, 2P CB
2	4 - CONV. RECEP. @ HALLWAY	1440		6.26			3-3.5mm² THHN	15mmØ	20AT, 2P CB
3	6 - CONV. RECEP. @ ATC/FIC, STO., ATC OFFICE & NAP RM (M)	2160			9.39		3-3.5mm² THHN	15mmØ	20AT, 2P CB
4	7 - CONV. RECEP. @ NAP RM (F). CONF., DEPT. MNGRS & OFFICE	2520		10.96			3-3.5mm² THHN	15mmØ	20AT, 2P CB
5	2 - CONV. RECEP. @ ROOF DECK (ADMIN. BLDG.)	720		3.13			3-3.5mm² THHN	15mmØ	20AT, 2P CB
6	1 - 1000VA HAND DRYER OUTLET @ TOILET-M2	1000			4.35		3-3.5mm² THHN	15mmØ	20AT, 2P CB
7	2 - 1000VA HAND DRYER OUTLET @ TOILET-M1&F1	2000	8.70				3-3.5mm² THHN	15mmØ	20AT, 2P CB
8	8 - SENSOR SUPPLY @ TOILET-M2	100		0.43			3-3.5mm² THHN	15mmØ	20AT, 2P CB
9	4 - SENSOR SUPPLY @ TOILET-F1	100			0.43		3-3.5mm² THHN	15mmØ	20AT, 2P CB
10	6 - SENSOR SUPPLY @ TOILET-M1	100	0.43				3-3.5mm² THHN	15mmØ	20AT, 2P CB
11	187W EF @ STORAGE (ATC/FIC)	230		1.02			3-3.5mm² THHN	15mmØ	20AT, 2P CB
12	370W EF @ WORKSHOP & STORE	460			2.01		3-3.5mm² THHN	15mmØ	20AT, 2P CB
13	SPARE								20AT, 2P CB
14	SPARE								20AT, 2P CB
15	SPARE								20AT, 2P CB
16	SPARE								20AT, 2P CB
17	SPARE								20AT, 2P CB
18	SPARE								20AT, 2P CB
		13710	21.65	21.80	16.18			•	

 $IT = 21.80 \times 1.732 = 37.75 A$

FEEDER SIZE: 3-6mm² XLPE + 1-8mm² TW MAIN PROTECTION: 60AT, 100AF 3P MCCB, 10kAIC

PANEL:	LPN2	VOLTAGE:	2.	30V 3ø 3	W		SUPPLY:	NORMA	L ONLY
TO:	230V LVSGN-CTO								
CKT NO.	LOAD DESCRIPTION	VA		AMPER	E LOAD		WIRE	CONDUIT	PROTECTION
CKI NO.	LOAD DESCRIPTION	VA	ØAB	øВС	øСА	3ø LOAD	WIRE	CONDOIT	
1	21 - 18W PLC + 6 - 70W METAL HALIDE @ HALLWAY & LOBBY	7 998	4.33				3-3.5mm² THHN	15mmØ	20AT, 2P CB
2	13 - 4x20W FLUO. @ EQUIP. RM & FSS RMs	1300		5.65			3-3.5mm² THHN	15mmØ	20AT, 2P CB
3	5 - 4x20W FLUO. @ ANS & FIC OFFICE	500			2.17		3-3.5mm² THHN	15mmØ	20AT, 2P CB
4	8 - 4x20W FLUO. + 2 - 40W FLUO. @ ATC OFFICEs & STORAG	Es 900	3.91				3-3.5mm² THHN	15mmØ	20AT, 2P CB
5	3 - 4x20W FLUO. + 3 - 18W PLC @ NAP RM & TOILET	368		1.6			3-3.5mm² THHN	15mmØ	20AT, 2P CB
6	7 - 4x20W FLUO. + 6 - 18W PLC @ NAP RM, TOILETS @ OFF	ICE 835			3.63		3-3.5mm ² THHN	15mmØ	20AT, 2P CB
7	8 - 4x20W FLUO. @ CONFERENCE RM	800			3.47		3-3.5mm² THHN	15mmØ	20AT, 2P CB
8	8 - 4x20W FLUO. @ DEPT. MANAGERS	800		3.47			3-3.5mm² THHN	15mmØ	20AT, 2P CB
9	2 - 18W WALL LAMP @ ROOF DECK-ADMIN.	45	0.19				3-3.5mm² THHN	15mmØ	20AT, 2P CB
10	SPARE								20AT, 2P CB
11	SPARE								20AT, 2P CB
12	SPARE								20AT, 2P CB
		6546	8.43	10.72	9.27		<u> </u>		

 $IT = 10.72 \times 1.732 = 18.56 A$

3-10mm² XLPE + 1-8mm² TW FEEDER SIZE:

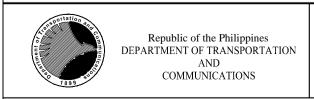
MAIN PROTECTION: 50AT, 50AF 3P MCCB, 10KAIC

PANEL:	LPN3	VOLTAGE:	23	30V 3ø 3	SW	_	SUPPLY:	NORMA	L ONLY
TO:	230V LVSGN-CTO								
CKT NO.	LOAD DESCRIPTION	VA		AMPERI	E LOAD		WIRE	CONDUIT	PROTECTION
JKI NO.	LOAD DESCRIPTION	VA	ØAB	øBC	øСА	3ø LOAD	WIRE	CONDOIT	PROTECTION
1	8 - CONV. RECEP. RISER @ ELEVATOR LOBBY	2880			12.52		3-3.5mm² THHN	15mmØ	20AT, 2P CB
2	2 - 56W FCU @ READY RM (8TH FLR)	140		0.61			3-3.5mm² THHN	15mmØ	20AT, 2P CB
3	2 - CONV. RECEP. @ READY RM	720			3.13		3-3.5mm² THHN	15mmØ	20AT, 2P CB
4	3.5KW WATER HEATER @ MT (8TH FLR)	4375	19.02				3-5.5mm² THHN	15mmØ	30AT, 2P CB
5	3.5KW WATER HEATER @ FT (8TH FLR)	4375		19.02			3-5.5mm² THHN	15mmØ	30AT, 2P CB
6	1 - CONV. RECEP. @ ROOF TOP	360			1,56		3-3.5mm² THHN	15mmØ	20AT, 2P CB
7	4 - 18W PLC + 5 - 40W FLUO. @ READY RRM,	340	1 47				3-3.5mm² THHN	15 0	2047 20 00
/	MT, FT & M.E. RM (8TH FLR)	340	1.47				3-3.5mm IHHN	15mmØ	20AT, 2P CB
8	8 - 18W PLC @ ELEVATOR LOBBY 1-8	180		0.78			3-3.5mm² THHN	15mmØ	20AT, 2P CB
9	8 - 40W FLUO. @ 7TH FLR LOUVER	400			1.73		3-3.5mm² THHN	15mmØ	20AT, 2P CB
10	SPARE								20AT, 2P CB
11	SPARE								20AT, 2P CB
12	SPARE								20AT, 2P CB
		13770	20.49	20.14	18.93				

 $= 20.49 \times 1./32 = 35.48 \text{ A}$

3-10mm² XLPE + 1-8mm² TW MAIN PROTECTION: 50AT, 100AF 3P MCCB, 10kAIC





JAPAN AIRPORT CONSULTANTS, INC.



JAPAN INTERNATIONAL COOPERATION

PREPARED BY:

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 REG. NO.:
 1927
 DATE:
 1-04-13

 T.I.N.
 119-747-900
 PLACE:
 MANILA
 ILDEFONSO T. PATDU, JR.

RECOMMENDNG APPROVAL: APPROVED:

Assistant Secretary
for Project Implementation, DOTC

JULIANITO G. BUCAYAN, JR.

PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT Undersecretary
for Project Implementation, DOTC

LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES

DATE	INDEX	AMENDMENTS	Prepared by	Checked by	Validated by	ELECTRICAL PANEL SCHEDULE2
JUNE 2013				WIM	НС	& Administration
						(B3) Control Tower,
						BUILDING WORKS (B) SUBCOMPONENT-4-3
						COMPONENT-4
						SHEET CONTENTS:

SHEET CONTENTS: SHEET NO: COMPONENT-4 B3-6200-10 BUILDING WORKS (B) SUBCOMPONENT-4-3 (B3) Control Tower, ATC Operation DRAWING SCALE: & Administration Building

NTS









PANEL:	PPWHN	VOLTAGE:	23	30V 3ø 3	3W		SUPPLY:	NO	RMAL
TO:	230V LVSGN-CTO								
CKT NO.	LOAD DESCRIPTION	VA		AMPER	E LOAD		WIRE	CONDUIT	PROTECTION
JKI NO.	LOAD DESCRIPTION		ØAB	øВС	øСА	3ø LOAD	WIRE	CONDON	PROTECTION
1	2 - 1.8 KW BOOSTER PUMP (1-STANDBY) @ ME RM (GRD FLR)	2250				5.65	4-3.5mm ² THHN	15mmØ	20AT, 3P MCCE
2	SPARE								20AT, 3P MCCB
3	6.5KW WATER HEATER @ MT-1 LAVATORY (GRD FLR)	8125	35.32				$[2-8 \text{mm}^2 + 1-5.5 \text{mm}^2]$ THHN	20mmØ	40AT, 2P CB
4	6.5KW WATER HEATER @ FT-1 LAVATORY (GRD FLR)	8125		35.32			$[2-8 \text{mm}^2 + 1-5.5 \text{mm}^2]$ THHN	20mmØ	40AT, 2P CB
5	4.5KW WATER HEATER @ MT-1 SHOWER (GRD FLR)	5625			24.45		3-5.5mm² THHN	15mmØ	30AT, 2P CB
6	4.5KW WATER HEATER @ FT-1 SHOWER (GRD FLR)	5625	24.45				3-5.5mm² THHN	15mmØ	30AT, 2P CB
7	6.5KW WATER HEATER @ FT-2 LAVATORY (GRD FLR)	8125		35.32			$[2-8 \text{mm}^2 + 1-5.5 \text{mm}^2] \text{ THHN}$	20mmØ	40AT, 2P CB
8	6.5KW WATER HEATER @ MT-2 LAVATORY (GRD FLR)	8125			35.32		$[2-8 \text{mm}^2 + 1-5.5 \text{mm}^2]$ THHN	20mmØ	40AT, 2P CB
9	4.5KW WATER HEATER @ FT-2 SHOWER (GRD FLR)	5625	24.45				3-5.5mm² THHN	15mmØ	30AT, 2P CB
10	4.5KW WATER HEATER @ MT-2 SHOWER (GRD FLR)	5625		24.45			3-5.5mm² THHN	15mmØ	30AT, 2P CB
11	6.5KW WATER HEATER @ MT-1 LAVATORY (2ND FLR)	8125			35.32		$[2-8 \text{mm}^2 + 1-5.5 \text{mm}^2]$ THHN	20mmØ	40AT, 2P CB
12	4.5KW WATER HEATER @ MT-1 SHOWER (2ND FLR)	5625	24.45				3-5.5mm² THHN	15mmØ	30AT, 2P CB
13	6.5KW WATER HEATER @ FT-1 LAVATORY (2ND FLR)	8125		35.32			$[2-8 \text{mm}^2 + 1-5.5 \text{mm}^2]$ THHN	20mmØ	40AT, 2P CB
14	6.5KW WATER HEATER @ MT-2 LAVATORY (2ND FLR)	8125			35.32		$[2-8 \text{mm}^2 + 1-5.5 \text{mm}^2]$ THHN	20mmØ	40AT, 2P CB
15	4.5KW WATER HEATER @ FT-1 SHOWER (2ND FLR)	5625	24.45				3-5.5mm² THHN	15mmØ	30AT, 2P CB
16	4.5KW WATER HEATER @ MT-2 SHOWER (2ND FLR)	5625		24.45			3-5.5mm² THHN	15mmØ	30AT, 2P CB
17	SPARE								30AT, 2P CB
18	SPARE								30AT, 2P CB
		98500	133.12	154.86	130.41	5.65			·

MDP:	PDB-VFR	VOLTAGE:	230V 3ø 3W				SUPPLY:	NORMAL/EMERGENCY/UPS		
TO:	PDB-EQ									
CKT NO.	LOAD DESCRIPTION	VA		AMPER	E LOAD		WIRE	CONDUIT	PROTECTION	
CKI NO.	LOAD DESCRIPTION	🗸	ØΑΒ	øВС	øСА	3ø LOAD	WIKE	CONDOTT	PROTECTION	
1	2 - WEATHER DATA DISPLAY	440	1.91				Proposed by ANS Works	_	20AT, 2P CB	
2	2 - WIND DISPLAY	440		1.91			Proposed by ANS Works	_	20AT, 2P CB	
3	MONITOR FOR ANS	200			0.87		Proposed by ANS Works	_	20AT, 2P CB	
4	AFL PC	500	2.17				Proposed by ANS Works	_	20AT, 2P CB	
5	3 - VHF AM TRANSCEIVER	1000		6.52			Proposed by ANS Works	_	20AT, 2P CB	
6	VHF FM TRANSCEIVER	200			0.87		Proposed by ANS Works	_	20AT, 2P CB	
7	MONITOR FOR VRS	200	0.87				Proposed by ANS Works	_	20AT, 2P CB	
8	VCCS CONSOLE	1000			4.35		Proposed by ANS Works	_	20AT, 2P CB	
9	VCCS CONSOLE	1000			4.35		Proposed by ANS Works	_	20AT, 2P CB	
10	VCCS CONSOLE	1000	4.35				Proposed by ANS Works	_	20AT, 2P CB	
11	VCCS CONSOLE	1000	4.35				Proposed by ANS Works	_	20AT, 2P CB	
12	RUI	200			0.87		Proposed by ANS Works	_	20AT, 2P CB	
13	AIR TRAFFIC LIGHT GUN	100	0.43				Proposed by ANS Works	_	20AT, 2P CB	
14	SIREN	900		3.91			Proposed by ANS Works	_	20AT, 2P CB	
15	AMHS PC (Future)	500			2.17		Proposed by ANS Works	_	20AT, 2P CB	
16	SPARE								20AT, 2P CB	
17	SPARE								20AT, 2P CB	
18	SPARE								20AT, 2P CB	
		8680	14.09	12.35	13.48				-	

IT = 14.09 x 1.732 = 24 A

 FEEDER SIZE:
 3-10mm² XLPE + 1-8mm² TW

 MAIN PROTECTION:
 30AT, 50AF 3P MCCB, 10kAlC

FEEDER SIZE: 3-95mm² XLPE + 1-22mm² TW

MAIN PROTECTION: 300AT, 300AF 3P MCCB, 14KAIC

T NO.	LOAD DESCRIPTION	VA		AMPERI	E LOAD		WIDE	CONDILIT	PROTECTION	
NO.	LOAD DESCRIPTION	VA	ØAB	øBC	øСА	3ø LOAD	WIRE	CONDUIT	PROTECTION	
1	AIS PC (FUTURE)	500	2.17				3-3.5mm² THHN	20mmØ	20AT, 2P CB	
2	2 - AMHS PC (FUTURE)	1000		4.35			3-3.5mm² THHN	20mmØ	20AT, 2P CB	
3	WEATHER DATA DISPLAY (FUTURE)	220			0.96		$3-3.5$ mm 2 THHN	20mmØ	20AT, 2P CB	
4	OUTLET FOR FSS RADIO1	150			0.65		3-3.5mm² THHN	20mmØ	20AT, 2P CB	
5	OUTLET FOR FSS RADIO2	150			0.65		3-3.5mm² THHN	20mmØ	20AT, 2P CB	
6	SPARE								20AT, 2P CB	
		2020	2.17	4.35	2.26					

SUPPLY: NORMAL/EMERGENCY/UPS

VOLTAGE: 230V 3ø 3W

PDB-FOBS

MAIN PROTECTION: 30AT, 50AF 3P MCCB, 10kAIC

P:	PDB-EQ	VOLTAGE:	2	30V 3ø 3	3W	_	SUPPLY: _	NORMAL/EME	ERGENCY/UPS
):	4.16kV/230V 50kVA TRANSFORMER-ANS THROUGH UPS								
T NO.	LOAD DESCRIPTION	VA			E LOAD		WIRE	CONDUIT	PROTECTION
			ØAB	øВС	øСА	3ø LOAD			
1	To PDB VFR ROOM	8680				21.79	3-10mm² XLPE		30AT, 3P CB
2	VCCS	1300	5.65				Proposed by ANS Works	_	20AT, 2P CB
3	VRS	1000		4.35			Proposed by ANS Works	_	20AT, 2P CB
4	TX	2000			8.69		Proposed by ANS Works	-	20AT, 2P CB
5	RX	100	0.43				Proposed by ANS Works	-	20AT, 2P CB
6	HF SIGNAL CONVERTER	20	0.09				Proposed by ANS Works	_	20AT, 2P CB
7	HF	900		3.91			Proposed by ANS Works	_	20AT, 2P CB
8	AMHS PC (FUTURE)	500	2.17					_	20AT, 2P CB
9	RCSU FOR ILS	150	0.65				Proposed by ANS Works	_	20AT, 2P CB
10	MODEM FOR RCSU	500		2.17			Proposed by ANS Works	_	20AT, 2P CB
11	RMMS FOR ILS	400	1.74				Proposed by ANS Works	_	20AT, 2P CB
12	RMMS FOR VOR	400		1.74			Proposed by ANS Works	_	20AT, 2P CB
13	RMMS FOR DME	400			1.74		Proposed by ANS Works	_	20AT, 2P CB
14	RCSE FOR VOR	300	1.30				Proposed by ANS Works	_	20AT, 2P CB
15	MODEM FOR RMMS	500		2.17			Proposed by ANS Works	_	20AT, 2P CB
16	DATA LOGGER	220	0.96				Proposed by ANS Works	_	20AT, 2P CB
17	PRINTER	30	0.13				Proposed by ANS Works	_	20AT, 2P CB
18	WEATHER DATA DISPLAY	220		0.96			Proposed by ANS Works	_	20AT, 2P CB
19	MODEM FOR MET	200	0.87				Proposed by ANS Works	_	20AT, 2P CB
20	PABX	40	0.17				Proposed by ANS Works	_	20AT, 2P CB
21	TO PDB AT FOBS ROOM (FUTURE)	2020				5.02	3-6mm² XLPE	_	30AT, 3P CB
22	SPARE	2020				0.02	S SIIIII AL L		20AT, 2P CB
23	SPARE								20AT, 2P CB
24	SPARE								20AT, 2P CB
	SI / III.	19880	14 16	15.30	10.43	26.81			20/11, 21 05

CONTROL TOWER, OPERATIONS AND ADMINISTRATION BLDG. (CTO)
PANEL SCHEDULE

B3-6200-11 NOT TO SCALE

Lift portation and	PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED:	PROJECT TITLE:			SHEET CONTENTS:	SHEET NO:
Republic of the Philippines DEPARTMENT OF TRANSPORTATION AND COMMUNICATIONS Republic of the Philippines JAPAN INTERNATIONAL COOPERATION AGENCY							COMPONENT-4	B3-6200-11
COMMUNICATIONS AGENCY	TEODORO N. PAMATMAT PROF: PROF. ELECTRICAL ENGINEER PTR. 1403773			NEW BOHOL AIRPORT CONSTRUCTION AND			BUILDING WORKS (B) SUBCOMPONENT-4-3	
JICA DESIGN CONSULTANT JOINT VENTURE	REG. NO.: 1927 DATE: 1-04-13 T.I.N. 119-747-900 PLACE: MANILA			SUSTAINABLE ENVIRONMENT PROTECTION PROJECT			(B3) Control Tower, ATC Operation	DRAWING SCALE:
JAC S JAPAN AIRPORT CONSULTANTS, INC. NIPPON KOEI CO., LTD. NJS CONSULTANTS CO., LTD.	TADASHI AOI	ILDEFONSO T. PATDU, JR.	JULIANITO G. BUCAYAN, JR.		JUNE 2013	WIM HC	& Administration Building	NTC
INC. CO., LTD. CO., LTD.	Team Leader	Assistant Secretary for Project Implementation, DOTC	Undersecretary for Project Implementation, DOTC	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	DATE INDEX AMENDMENTS	Prepared Checked Valida	PANEL SCHEDULE3	NIS

PANEL:		VOLTAGE:	2	30V 3ø 3	3W	_	SUPPLY:	NORMAL/	EMERGENCY
TO:	230V LVSGN-CTO		1	444050	E 104D				
CKT NO.	LOAD DESCRIPTION	VA	ØAB	ØBC	E LOAD ØCA	3ø LOAD	WIRE	CONDUIT	PROTECTION
1	VRF-3	28312	7,10	750	70/1		3-22mm² THHN, 1-8mm² TW	32mmØ	100AT, 3P MCCB
2	VRF-4	28312				71.00	3-22mm ² THHN, 1-8mm ² TW	32mmØ	100AT, 3P MCCB
3	FAN 19A, 19B, 20A, 20B, 20C, 19C, 23A, 23B	560	2.43				3-3.5mm² THHN	20mmØ	20AT, 2P CB
4	FAN 21A, 21B, 22A, 22B, 24, 25	825		3.58			3-3.5mm² THHN	20mmØ	20AT, 2P CB
5	FAN 26B, 29A, 29B, 30A, 30B, 31A, 31B	490			2.13		3-3.5mm² THHN	20mmØ	20AT, 2P CB
6	FAN 27A, 27B, 26A, 28A, 28B, 33, 34, 32A, 32B	1035			4.5		3-3.5mm² THHN	20mmØ	20AT, 2P CB
7	SPARE	500	2.17						20AT, 2P CB
8	SPARE	500		2.17					20AT, 2P CB
9	SPARE	500	2.17						-
		61034	6.77	5.75	6.63	142			
	_								
	$I\tau = 6.77 \times 1.732 + 142 + 71(25\%) = 171.48 A$								
	FEEDER SIZE: 3-50mm² XLPE								
	MAIN PROTECTION: 200AT, 225AF 3P MCCB, 10KAIC								

PANEL	: PAC	CNE3	VOLTAGE:	2	30V 3ø 3	3W		SUPPLY:	NORMAL/	EMERGENCY
O:	230V LVSGN-CTO						-			
ZT NO		LOAD DESCRIPTION	VA		AMPER	E LOAD		WIDE	CONDUIT	DDOTECTION
KT NO.		LOAD DESCRIPTION	VA	ØAB	øВС	øСА	3ø LOAD	WIRE	CONDUIT	PROTECTION
1	VRF-5		23000				57.74	3-22mm ² THHN, 1-8mm ² TW	32mmØ	100AT, 3P MCCB
2	VRF-6		21875				54.91	3-22mm ² THHN, 1-8mm ² TW	32mmØ	100AT, 3P MCCB
3	VRF-7		19687				49.42	3-3.5mm² THHN	20mmØ	20AT, 2P CB
4	FAN 35A, 35B, 36A	, 36B, 37A, 37B	420	1.82				3-3.5mm² THHN	20mmØ	20AT, 2P CB
5	FAN 38, 39A, 39B,	40, 41	350		1.52			3-3.5mm² THHN	20mmØ	20AT, 2P CB
6	FAN 43A, 43B, 42A	, 42B, 42C, 44, 45	490			2.13		3-3.5mm² THHN	20mmØ	20AT, 2P CB
7	FAN 46A, 46B, 47A	, 47B, 48A, 48B, 49	490		2.13					20AT, 2P CB
8	SPARE		500	2.17						20AT, 2P CB
			66812	3.99	3.65	2.13	162.07			

PANEL:	: PVNE	VOLTAGE:	2.	30V 3ø 3	3W		SUPPLY:	NORMAL/E	EMERGENCY	
TO:	230V LVSGN-CTO	_				_				
CKT NO.	LOAD DESCRIPTION	VA		AMPER	E LOAD		WIRE	CONDUIT	PROTECTION	
2K1 14O+1	EOAD DESCRIPTION	VA	ØAB	øВС	øСА	3ø LOAD	WINE	CONDON	- NOTECTION	
1	EF-2 for EE Room at Ground Floor	875				2.19	4-3.5mm ² THHN	20mmØ	20AT, 3P CB	
2	EF-3 for Storage, EF-10 for Clenic, EF-13 for Toilet	300	1.30				3-3.5mm² THHN	20mmØ	20AT, 2P CE	
3	EF-16 for NAP Room, EF-17 for NAPRoom and EF18 for EPS	169		0.73			3-3.5mm² THHN	20mmØ	20AT, 2P CE	
4	EF-1, EF-9, SF for Mechanical Room, Handicap	563				1.41	4-3.5mm ² THHN	20mmØ	20AT, 3P CE	
5	EF-4, 5, 6, 7, 8	938				2.35	4-3.5mm² THHN	20mmØ	20AT, 3P CE	
6	SF-2 for EE Room at Ground Floor	875				2.19	4-3.5mm² THHN	20mmØ	20AT, 3P CE	
7	EF-11, Ef-12 for at 2nd Floor	375				0.94	4-3.5mm ² THHN	20mmØ	20AT, 3P CE	
8	EF-14, EF-15 for Toilet at 2nd Floor	375				0.94	4-3.5mm² THHN	20mmØ	20AT, 3P CE	
9	SPARE	500			2.17				20AT, 2P CE	
10	SPARE	500	2.17						20AT, 2P C	
11	SPARE	500		2.17					20AT, 2P CI	
12	SPARE	500			2.17				20AT, 2P C	
		6470	3.47	2.90	4.34	10.02	·			

 $IT = 4.34 \times 1.732 + 10.02 + 2.35(25\%) = 18.12 A$

FEEDER SIZE: 3-6mm² XLPE

MAIN PROTECTION: 30AT, 100AF 3P MCCB, 10KAIC

4	AND AD	DL TOWER, OPER MINISTRATION BIEL SCHE	LDG. (CTO)
B3-6200-11	NOT	TO	SCA

To 99 Miles	Republic of the Philip DEPARTMENT OF TRANSP AND COMMUNICATION	ORTATION	jic/
	JICA DESIGN	CONSULT	ANT JOINT VEN
JAC \$	JAPAN AIRPORT CONSULTANTS, INC.		NIPPON KOEI CO., LTD.



JAPAN INTERNATIONAL COOPERATION AGENCY

NJS CONSULTANTS CO., LTD.

PREPARED BY:
 TEODORO N. PAMATMAT

 PROF:
 PROF. ELECTRICAL ENGINEER
 PTR.
 1403773

 REG. NO.:
 1927
 DATE:
 1-04-13

 T.I.N.
 119-747-900
 PLACE:
 MANILA
 TADASHI AOI Team Leader

RECOMMENDING APPROVAL: APPROVED: ILDEFONSO T. PATDU, JR.
Assistant Secretary
for Project Implementation, DOTC

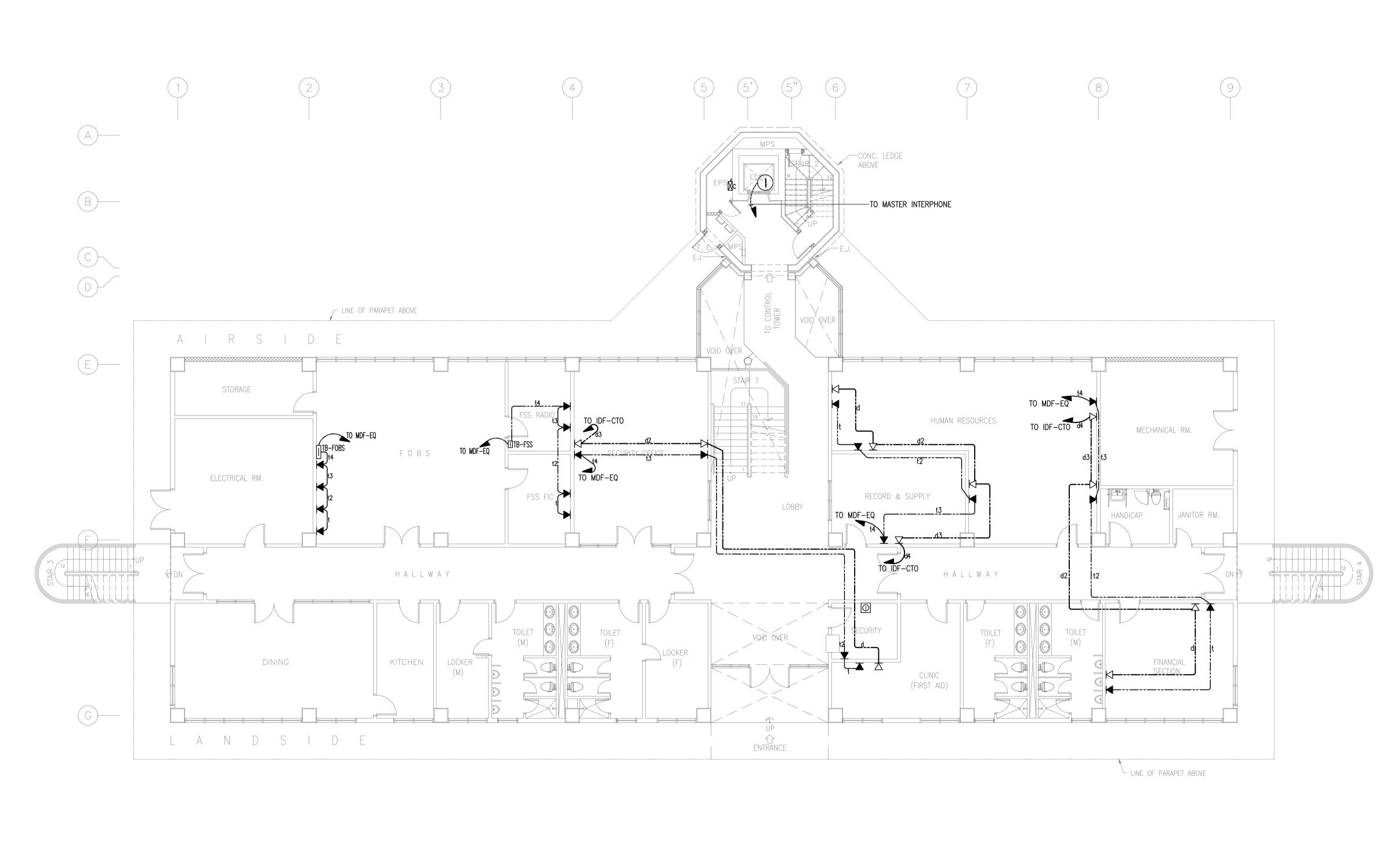
JULIANITO G. BUCAYAN, JR.
Undersecretary
for Project Implementation, DOTC

PROJECT TITLE:	
NEW BOHOL AIRPORT CONSTRUCTION AND	
SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	
	JUN
LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	Г

					SHEET CONTENTS:
					COMPONENT-4
					BUILDING WORKS (B) SUBCOMPONENT-4-3
					(B3) Control Tower, A
			WIM	НС	& Administration ELECTRICAL
X	AMENDMENTS	Prepared by	Checked by	Validated by	PANEL SCHEDULE4

ET CONTENTS: SHEET NO: ONENT-4 B3-6200-12 OING WORKS (B) MPONENT-4-3 Control Tower, ATC Operation & Administration Building

DRAWING SCALE: NTS



NOTE: REFER TO TELEPHONE SYSTEM SCHEMATIC DIAGRAM DATA SYSTEM SCHEMATIC DIAGRAM FOR WIRING SCHEDULE.

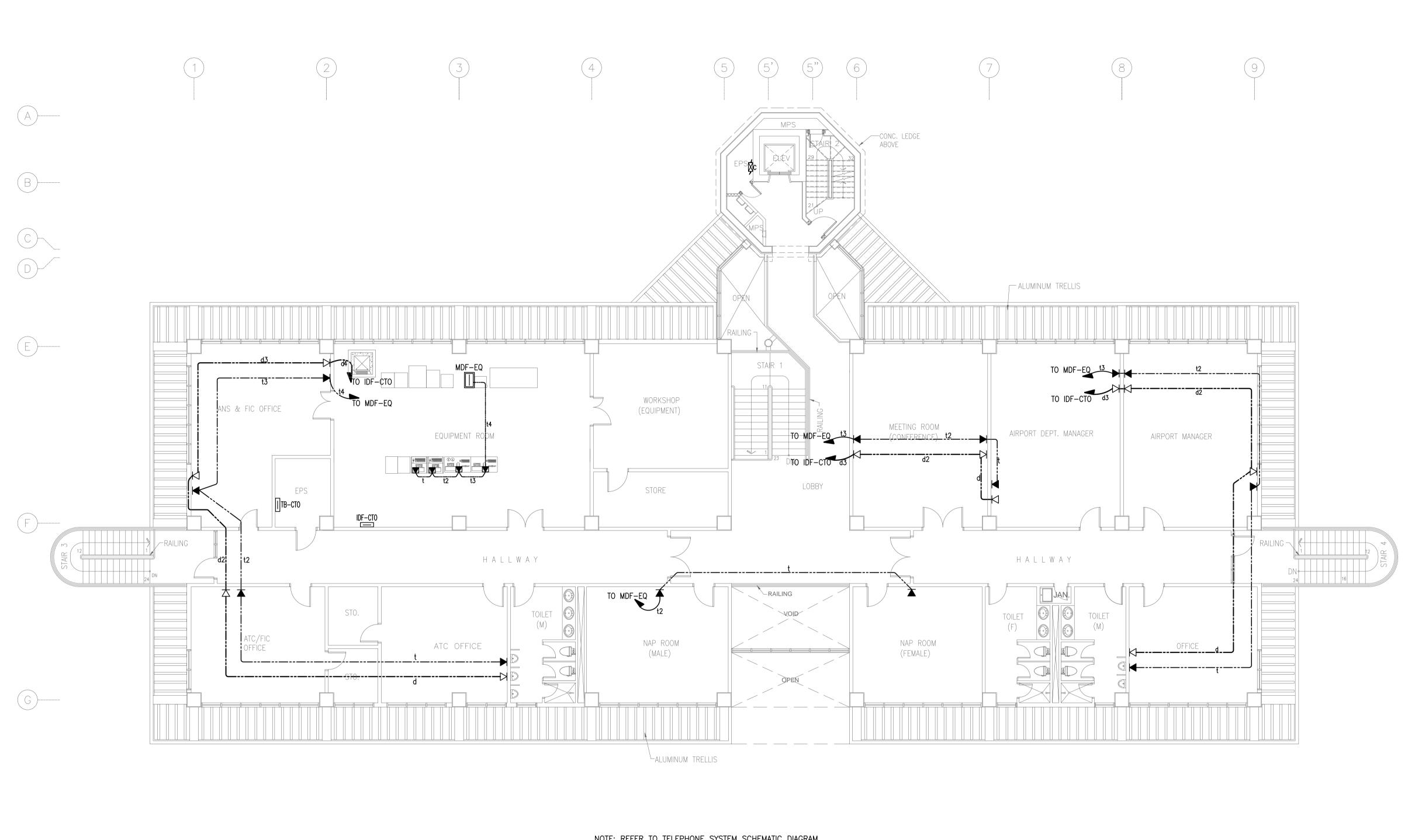
CONTROL TOWER, OPERATIONS AND ADMINISTRATION BLDG. (CTO)

GROUND FLOOR TELEPHONE AND DATA SYSTEM PLAN

B3-6300-01 GRAPHIC SCALE

0 1 2 5 10m

in Sportation and		PREPARED BY:	RECOMMENDNG APPROVAL:	APPROVED:	PROJECT TITLE:				SHEET CONTENTS:	SHEET NO:
Republic of the Philippines DEPARTMENT OF TRANSPORTATION	JAPAN INTERNATIONAL COOPERATION AGENCY								COMPONENT-4	B3-6300-01
COMMUNICATIONS	JICA COOPERATION AGENCY	TEODORO N. PAMATMAT PROF: PROF. ELECTRICAL ENGINEER PTR. 1403773			NEW BOHOL AIRPORT CONSTRUCTION AND				BUILDING WORKS (B) SUBCOMPONENT-4-3	0300 01
JICA DESIGN CONSUL	TANT JOINT VENTURE	REG. NO.: 1927 DATE: 1-04-13 T.I.N. 119-747-900 PLACE: MANILA			SUSTAINABLE ENVIRONMENT PROTECTION PROJECT				(B3) Control Tower, ATC Operation	DRAWING SCALE:
JAC S JAPAN AIRPORT CONSULTANTS, INC.	NIPPON KOEI NIS CONSULTANTS	TADACHI AOI	ILDEFONSO T. PATDU, JR.	JULIANITO G. BUCAYAN, JR.		JUNE 2013		WIM HO	& Administration Building	1.100
JAC SCONSULTANTS, INC.	CO., LTD.	TADASHI AOI Team Leader	Assistant Secretary for Project Implementation, DOTC	Undersecretary for Project Implementation, DOTC	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	DATE INDEX	AMENDMENTS Prep b	pared Checked Valid by by	GRD FLR TEL. & DATA	1:100 m



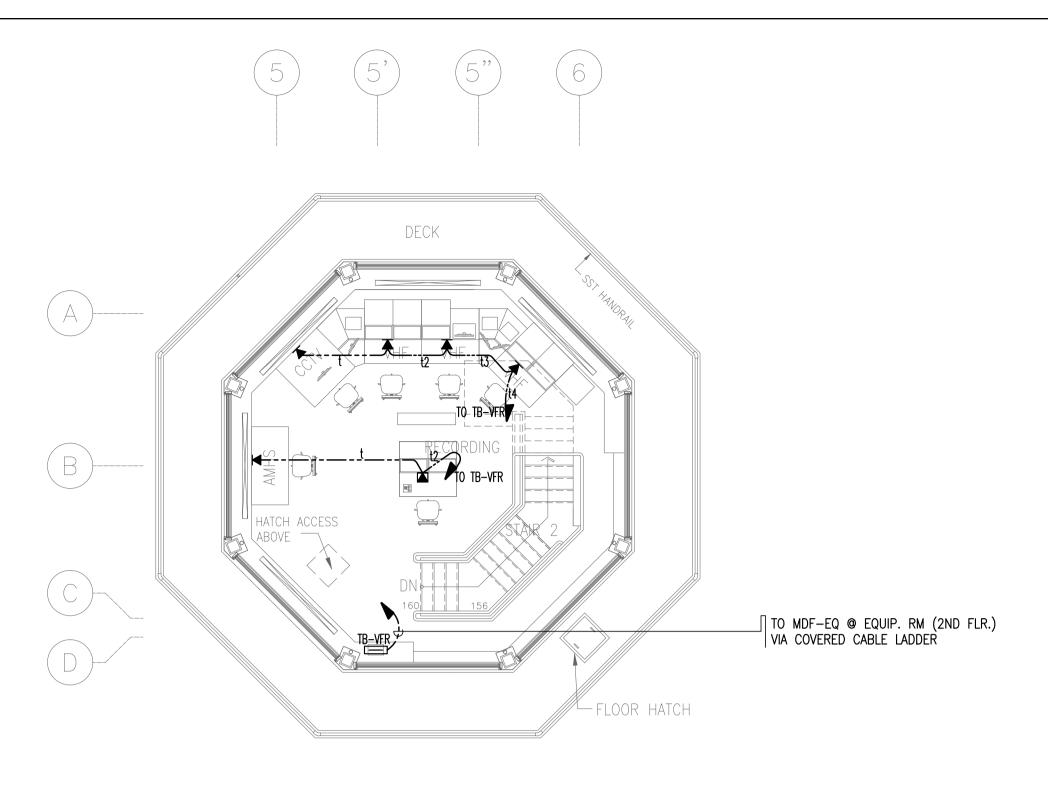
NOTE: REFER TO TELEPHONE SYSTEM SCHEMATIC DIAGRAM DATA SYSTEM SCHEMATIC DIAGRAM FOR WIRING SCHEDULE.

CONTROL TOWER, OPERATIONS AND ADMINISTRATION BLDG. (CTO)
SECOND FLOOR TELEPHONE AND DATA SYSTEM PLAN

B3-6300-02 GRAPHIC SCALE

0 1 2 5 10m

Light ortation one				PREPARED BY:	RECOMMENDNG APPROVAL:	APPROVED:	PROJECT TITLE:				SHEET CONTENTS:	SHEET NO:
Republic of the DEPARTMENT OF THE SECOND SEC	the Philippines TRANSPORTATION AND		JAPAN INTERNATIONAL COOPERATION								COMPONENT-4	B3-6300-02
COMMUN	NICATIONS	JICA	AGENCY	TEODORO N. PAMATMAT PROF: PROF. ELECTRICAL ENGINEER PTR. 1403773			NEW BOHOL AIRPORT CONSTRUCTION AND				BUILDING WORKS (B) SUBCOMPONENT-4-3	B0 0000 02
JICA DI	DESIGN CONSULTANT	Γ JOINT VENTURE		REG. NO.: 1927 DATE: 1-04-13 T.I.N. 119-747-900 PLACE: MANILA	-		SUSTAINABLE ENVIRONMENT PROTECTION PROJECT				(B3) Control Tower, ATC Operation	DRAWING SCALE:
JAC S JAPAN AIRPO CONSULTAN' INC.	ORT NIP NIP		NJS CONSULTANTS	TADASHI AOI	ILDEFONSO T. PATDU, JR.	JULIANITO G. BUCAYAN, JR.		JUNE 2013		WIM HC	& Administration Building ELECTRICAL	
INC.		O., LTD.	CO., LTD.	Team Leader	Assistant Secretary for Project Implementation, DOTC	Undersecretary for Project Implementation, DOTC	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	DATE INDEX AMENDMENTS	Prepared by	Checked Validated by	2ND FLR TEL. & DATA	1:100 m



CONTROL TOWER, OPERATIONS AND ADMINISTRATION BLDG. (CTO)

9TH FLR TELEPHONE AND DATA SYSTEM PLAN

B3-6300-03 GRAPHIC SCALE

CONTROL TOWER, OPERATIONS AND ADMINISTRATION BLDG. (CTO)
ROOF DECK TELEPHONE AND DATA SYSTEM PLAN

B3-6300-03 GRAPHIC SCALE

The system of the

CANOPY WALL

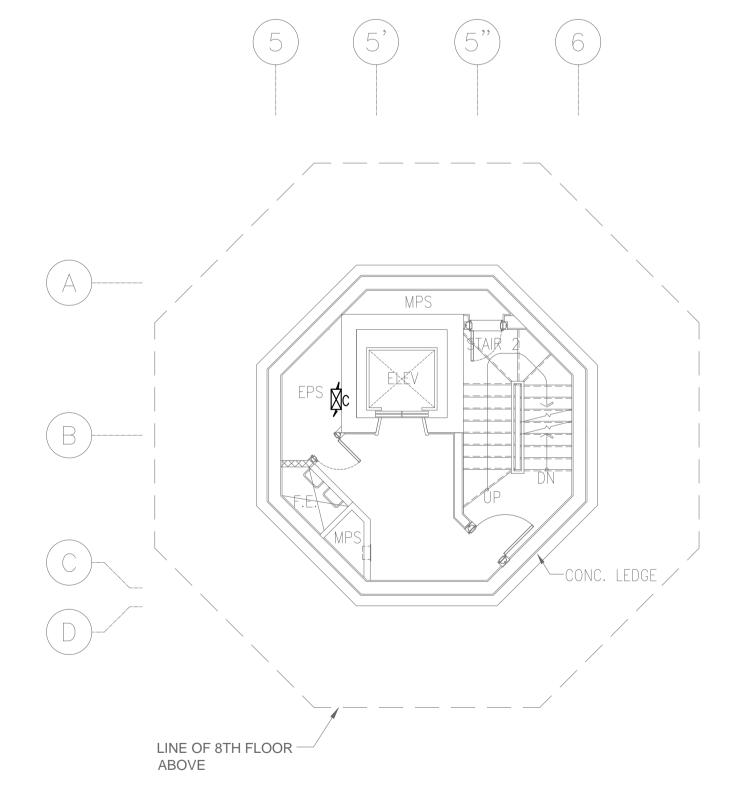
SST HANDRAIL

ROOF DECK

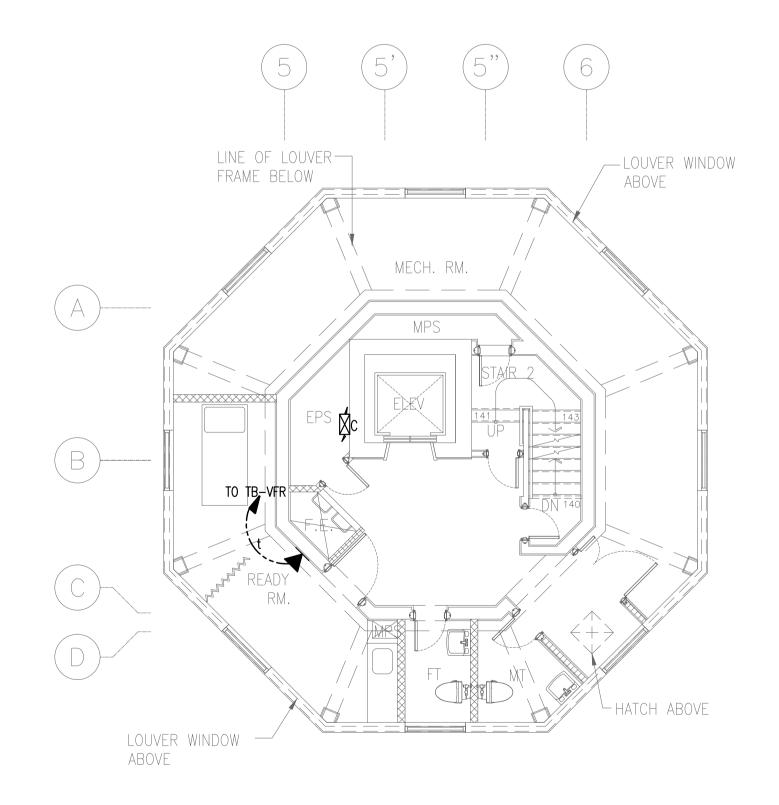
HATCH ACCESS

FOUNDATION FOR

AERODROME BEACON
600X600X500H



NOTE: REFER TO TELEPHONE SYSTEM SCHEMATIC DIAGRAM FOR WIRING SCHEDULE.



CONTROL TOWER, OPERATIONS AND ADMINISTRATION BLDG. (CTO)

4TH-7TH FLR (TYPICAL) TELEPHONE AND DATA SYSTEM PLAN

B3-6300-03 GRAPHIC SCALE

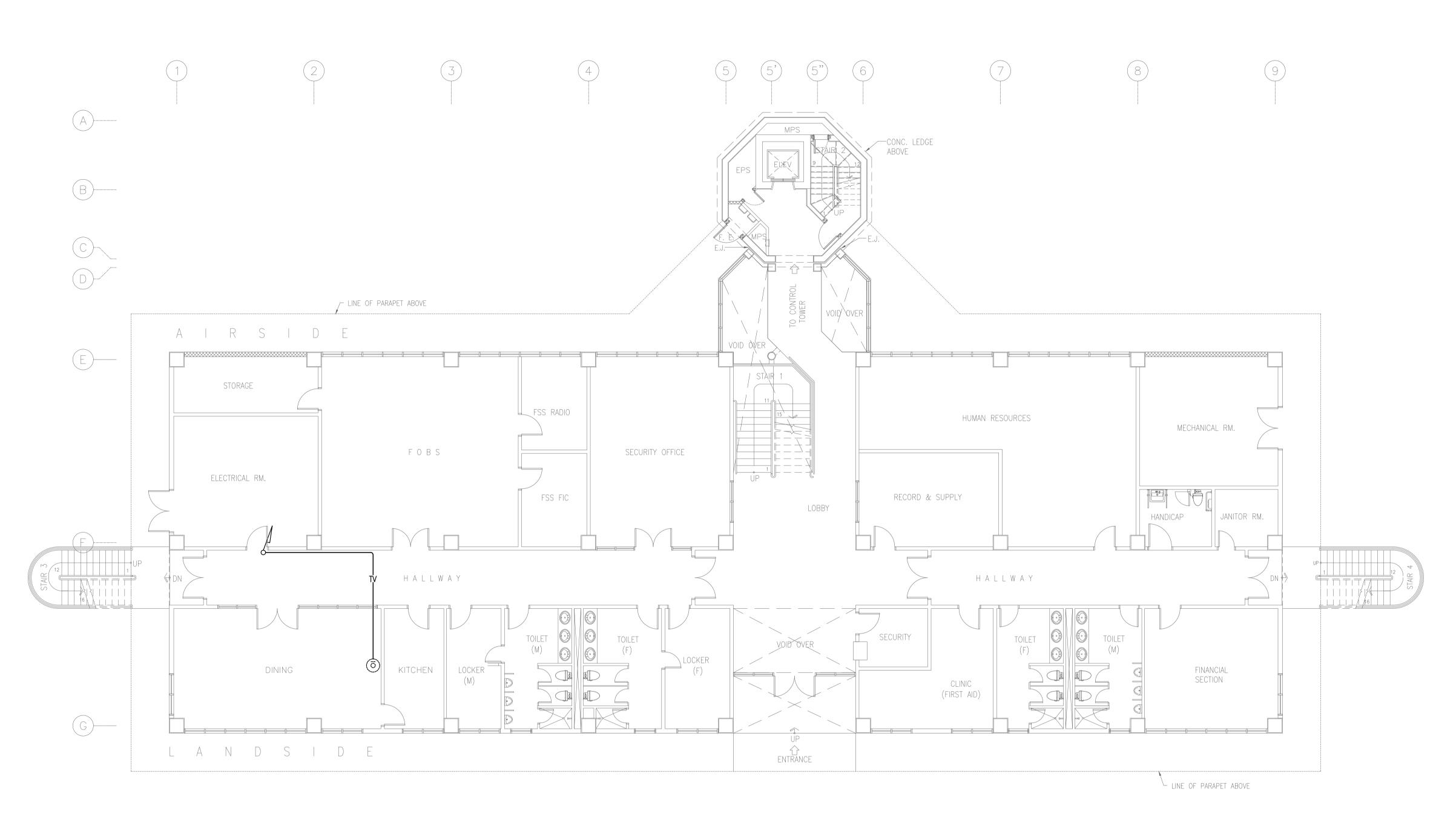
CONTROL TOWER, OPERATIONS AND ADMINISTRATION BLDG. (CTO)

8TH FLR TELEPHONE AND DATA SYSTEM PLAN

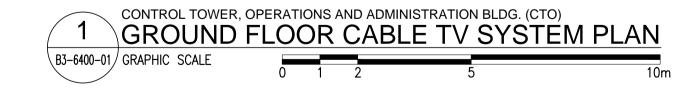
B3-6300-03 GRAPHIC SCALE

0 1 2 5m

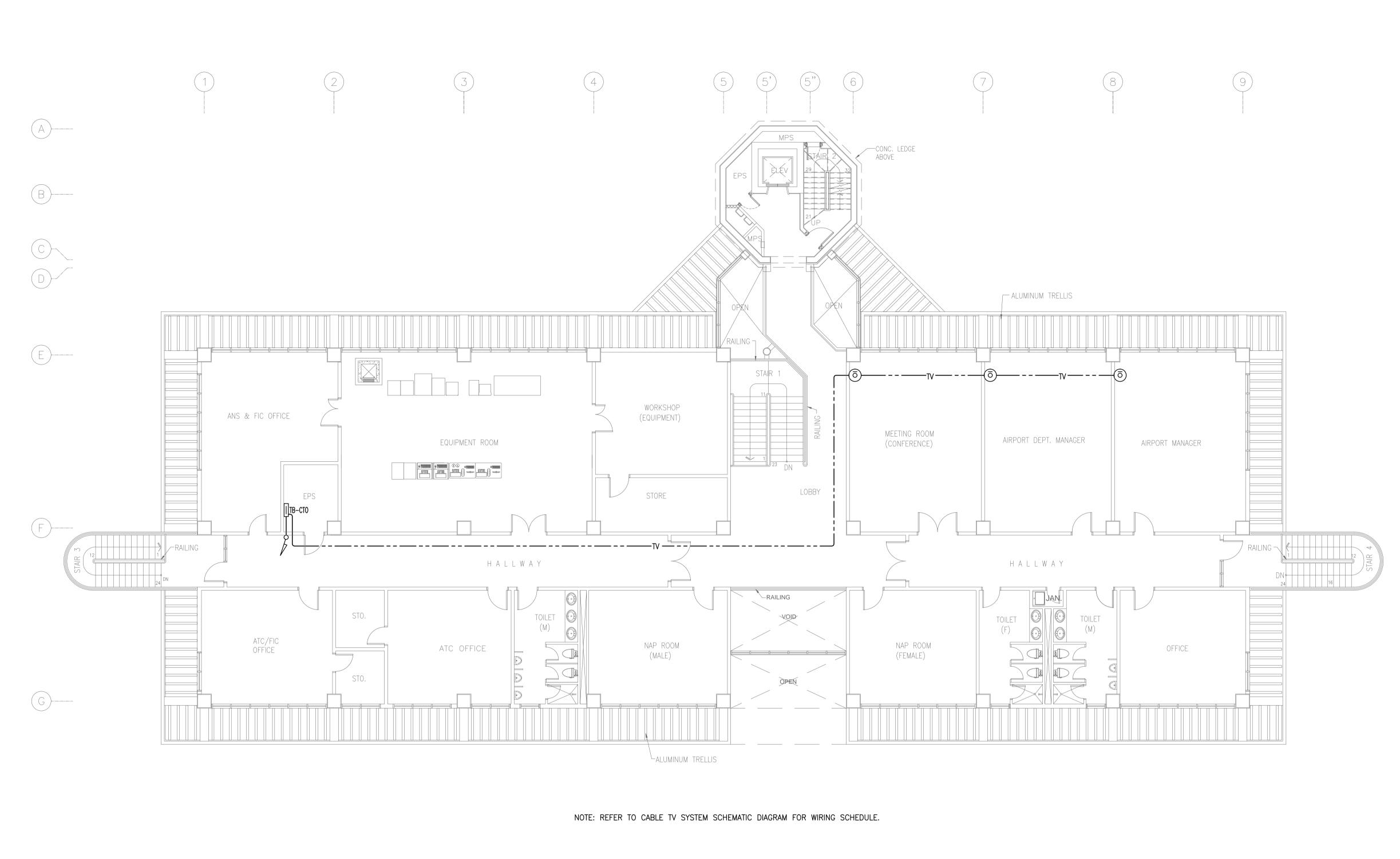
respectively appearance		PREPARED BY:	RECOMMENDNG APPROVAL:	APPROVED:	PROJECT TITLE:				SHEET CONTENTS:	SHEET NO:
Republic of the Philippines DEPARTMENT OF TRANSPORTATION	JAPAN INTERNATIONAL COOPERATION								COMPONENT-4	R3_6300_03
COMMUNICATIONS	INTERNATIONAL COOPERATION AGENCY	TEODORO N. PAMATMAT PROF: PROF. ELECTRICAL ENGINEER PTR. 1403773			NEW BOHOL AIRPORT CONSTRUCTION AND				BUILDING WORKS (B) SUBCOMPONENT-4-3	B3-6300-03
JICA DESIGN CONSULT	TANT JOINT VENTURE	REG. NO.: 1927 DATE: 1-04-13 T.I.N. 119-747-900 PLACE: MANILA			SUSTAINABLE ENVIRONMENT PROTECTION PROJECT				(B3) Control Tower, ATC Operation	DRAWING SCALE:
JAC S JAPAN AIRPORT CONSULTANTS, INC.	NIPPON KOEI CO., LTD. NJS CONSULTANT CO., LTD.	S TADACHI AOI	ILDEFONSO T. PATDU, JR.	JULIANITO G. BUCAYAN, JR.		JUNE 2013		WIM HC	& Administration Building ELECTRICAL	4.75
INC.	CO., LTD.	TADASHI AOI Team Leader	Assistant Secretary for Project Implementation, DOTC	Undersecretary for Project Implementation, DOTC	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	DATE INDEX	AMENDMENTS Prepar by	cd Checked Validated by by	4TH-9TH FLR TEL. & DATA	1:75 m



NOTE: REFER TO CABLE TV SYSTEM SCHEMATIC DIAGRAM FOR WIRING SCHEDULE.



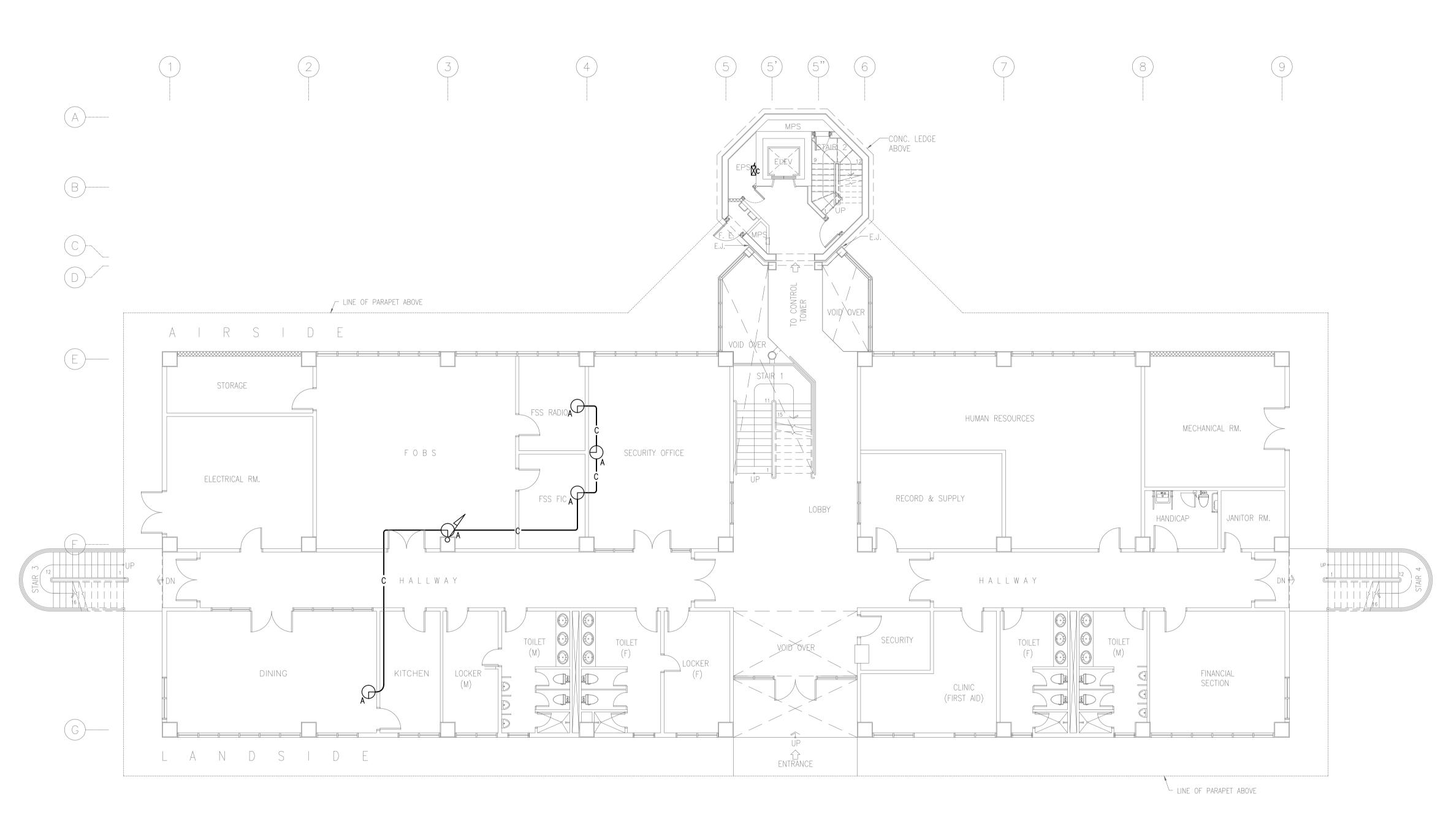
Les to ctation depo		PREPARED BY:	RECOMMENDING APPROVAL: APP	PROVED:	PROJECT TITLE:				SHEET CONTENTS:	SHEET NO:
Republic of the Philippines DEPARTMENT OF TRANSPORTATION AND COMMUNICATIONS	JAPAN INTERNATIONAL COOPERATION								COMPONENT-4	B3-6400-01
COMMUNICATIONS	AGENCY	TEODORO N. PAMATMAT PROF: PROF. ELECTRICAL ENGINEER PTR. 1403773			NEW BOHOL AIRPORT CONSTRUCTION AND				BUILDING WORKS (B) SUBCOMPONENT-4-3	
JICA DESIGN CONSULTANT JOINT V	ENTURE	REG. NO.: 1927 DATE: 1-04-13 T.I.N. 119-747-900 PLACE: MANILA			SUSTAINABLE ENVIRONMENT PROTECTION PROJECT				(B3) Control Tower, ATC Operation	DRAWING SCALE:
JAC S JAPAN AIRPORT CONSULTANTS, INC. NIPPON KOEI CO., LTD.	NJS CONSULTANTS	TADACHI AOI		ULIANITO G. BUCAYAN, JR.		JUNE 2013		WIM	#C & Administration Building	4.400
INC. CO., LTD.	CO., LTD.	TADASHI AOI Team Leader	Assistant Secretary for Project Implementation, DOTC for	Undersecretary Project Implementation, DOTC	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	DATE INDEX	AMENDMENTS	Prepared Checked Va	alidated by GRD FLR CATV	1:100 m



CONTROL TOWER, OPERATIONS AND ADMINISTRATION BLDG. (CTO)
SECOND FLOOR CABLE TV SYSTEM PLAN

B3-6400-02 GRAPHIC SCALE
0 1 2 5 10r

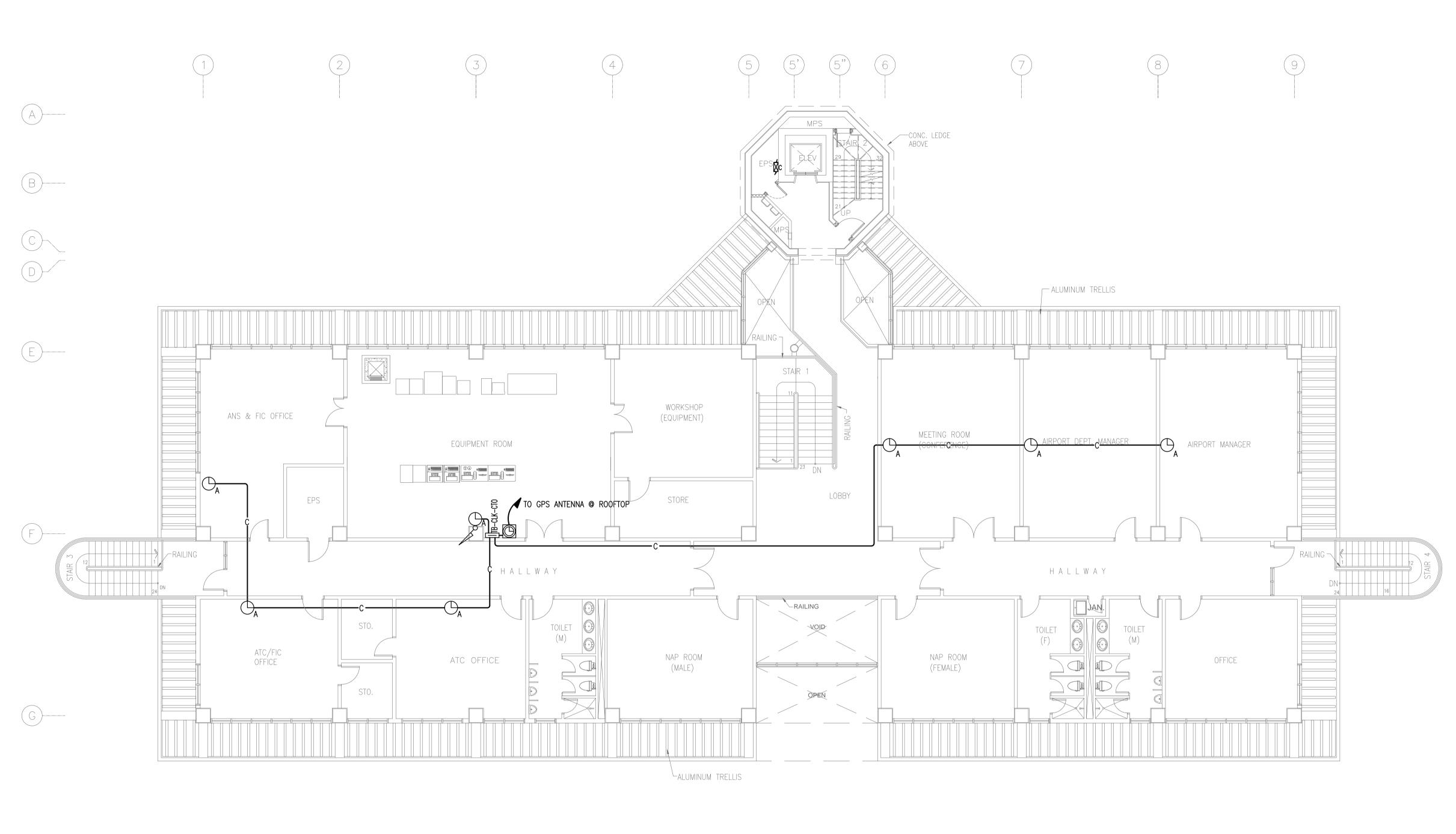
itis sortation ago			PREPARED BY:	RECOMMENDNG APPROVAL:	APPROVED:	PROJECT TITLE:				SHEET CONTENTS:	SHEET NO:
Republic of the Philippi DEPARTMENT OF TRANSPOL	RETATION JICA	JAPAN INTERNATIONAL COOPERATION								COMPONENT-4	B3-6400-02
COMMUNICATIONS	JICA /	AGENCY	TEODORO N. PAMATMAT PROF: PROF. ELECTRICAL ENGINEER PTR. 1403773	_		NEW BOHOL AIRPORT CONSTRUCTION AND				BUILDING WORKS (B) SUBCOMPONENT-4-3	
JICA DESIGN (CONSULTANT JOINT VENTUR	Ξ	REG. NO.: 1927 DATE: 1-04-13 T.I.N. 119-747-900 PLACE: MANILA			SUSTAINABLE ENVIRONMENT PROTECTION PROJECT				(B3) Control Tower, ATC Operation	DRAWING SCALE:
JAPAN AIRPORT		NJS CONSULTANTS	T4040111 401	ILDEFONSO T. PATDU, JR.	JULIANITO G. BUCAYAN, JR.		JUNE 2013	WIM	НС	& Administration Building	
JAC ST JAPAN AIRPORT CONSULTANTS, INC.	CO., LTD.	CO., LTD.	TADASHI AOI Team Leader	Assistant Secretary for Project Implementation, DOTC	Undersecretary for Project Implementation, DOTC	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	DATE INDEX AMENDMENTS	Prepared Checked by	******	ELECTRICAL 2ND FLR CATV	1:100 m



NOTE: REFER TO SYNCHRONIZING CLOCK SYSTEM SCHEMATIC DIAGRAM FOR WIRING SCHEDULE.



is sportation do			PREPARED BY:	RECOMMENDNG APPROVAL:	APPROVED:	PROJECT TITLE:				SHEET CONTENTS:	SHEET NO:
Republic of the Ph DEPARTMENT OF TRAN	ISPORTATION SPORTATION	JAPAN INTERNATIONA COOPERATION								COMPONENT-4	B3-6600-01
COMMUNICAT	ions JICA	AGENCY	TEODORO N. PAMATMAT PROF: PROF. ELECTRICAL ENGINEER PTR. 1403773			NEW BOHOL AIRPORT CONSTRUCTION AND				BUILDING WORKS (B) SUBCOMPONENT-4-3	20 0000 01
JICA DESIG	GN CONSULTANT JOINT VEN	TURE	REG. NO.: 1927 DATE: 1-04-13 T.I.N. 119-747-900 PLACE: MANILA			SUSTAINABLE ENVIRONMENT PROTECTION PROJECT				(B3) Control Tower, ATC Operation	DRAWING SCALE:
JAC S JAPAN AIRPORT CONSULTANTS, INC.	NIPPON KOEI	NJS CONSULT	ANTS TADASHI AOI	ILDEFONSO T. PATDU, JR.	JULIANITO G. BUCAYAN, JR.		JUNE 2013	WI	М НС	& Administration Building ELECTRICAL	4.400
INC.	CO., LID.	CO., LTI	Team Leader	Assistant Secretary for Project Implementation, DOTC	Undersecretary for Project Implementation, DOTC	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	DATE INDEX AMENDMENTS	Prepared Chec by b		GRD FLR CLOCK	1:100 m



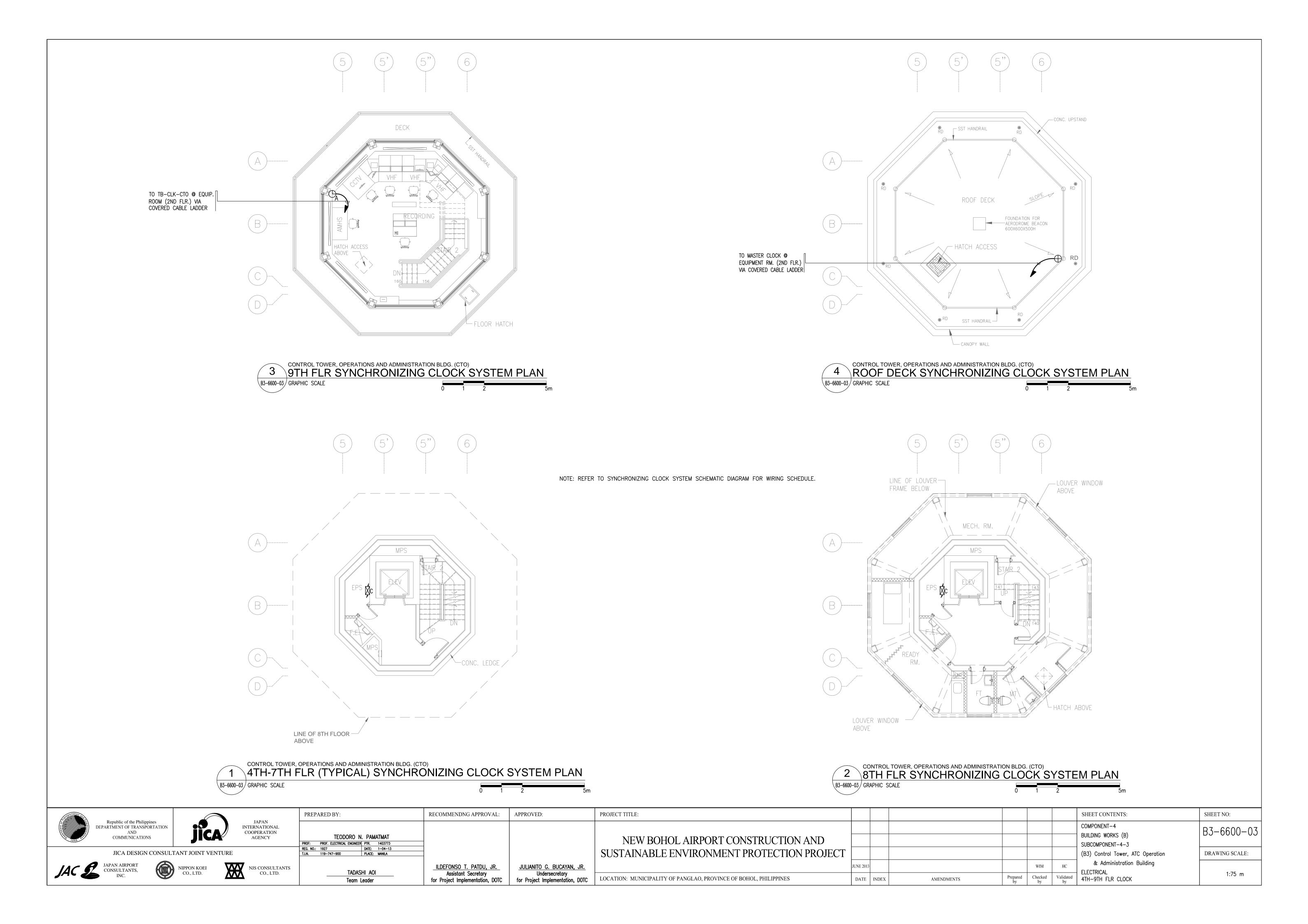
NOTE: REFER TO SYNCHRONIZING CLOCK SYSTEM SCHEMATIC DIAGRAM FOR WIRING SCHEDULE.

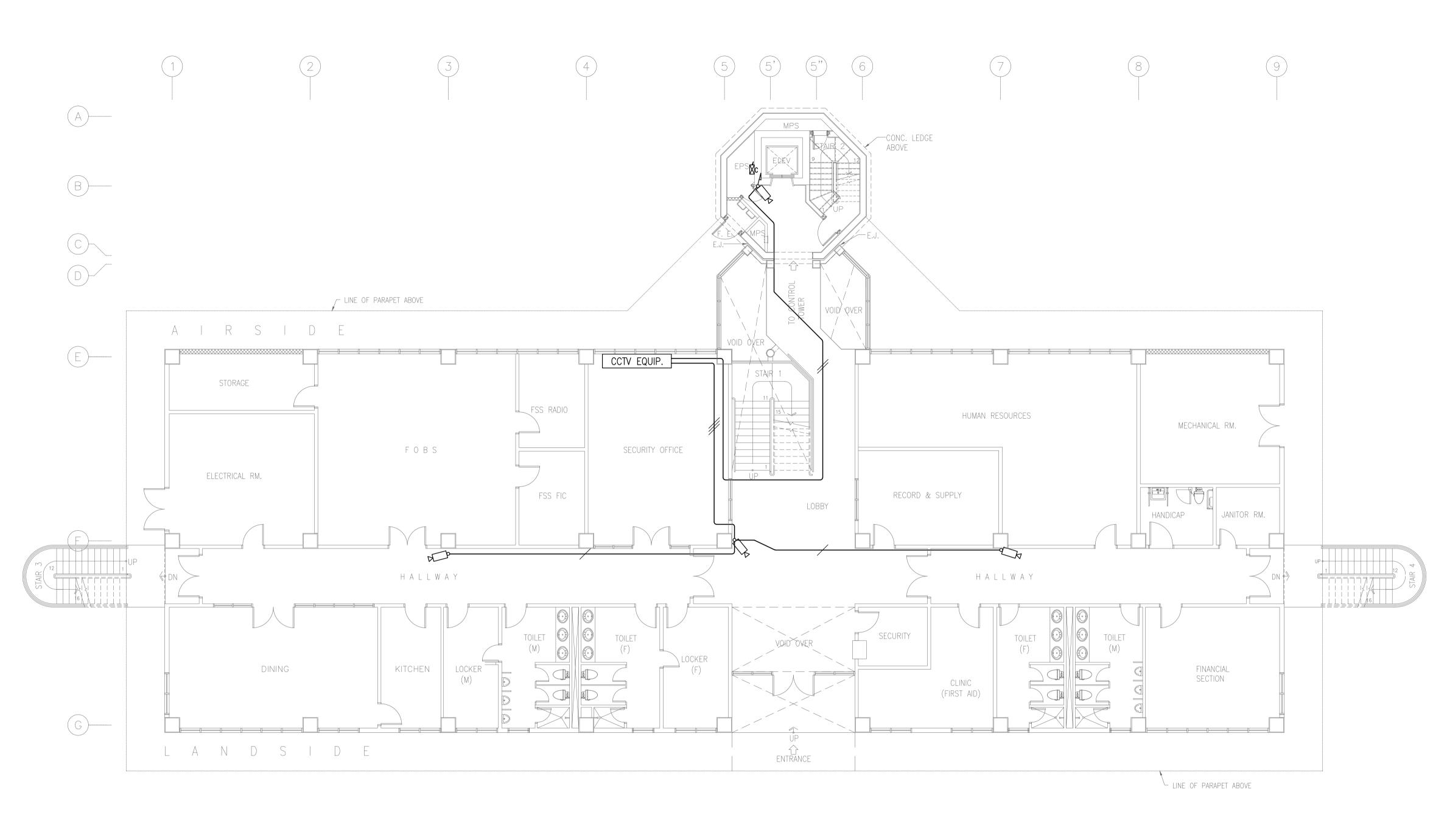
CONTROL TOWER, OPERATIONS AND ADMINISTRATION BLDG. (CTO)
SECOND FLOOR SYNCHRONIZING CLOCK SYSTEM PLAN

B3-6600-02 GRAPHIC SCALE

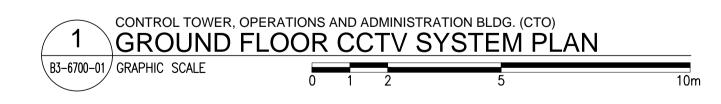
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Republic of the Philippines DEPARTMENT OF TRANSPORTATION AND	JAPAN INTERNATIONAL COOPERATION AGENCY						COMPONENT-4	B3-6600-02
COMMUNICATIONS	JICA AGENCY	TEODORO N. PAMATMAT PROF: PROF. ELECTRICAL ENGINEER PTR. 1403773			NEW BOHOL AIRPORT CONSTRUCTION AND		BUILDING WORKS (B) SUBCOMPONENT-4-3	B3 0000 02
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INC.	CO., LID.	TADASHI AOI Team Leader	Assistant Secretary for Project Implementation, DOTC	Undersecretary for Project Implementation, DOTC	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	DATE INDEX AMENDMENTS Prepared Checked by Checked	Validated by 2ND FLR CLOCK	1:100 m

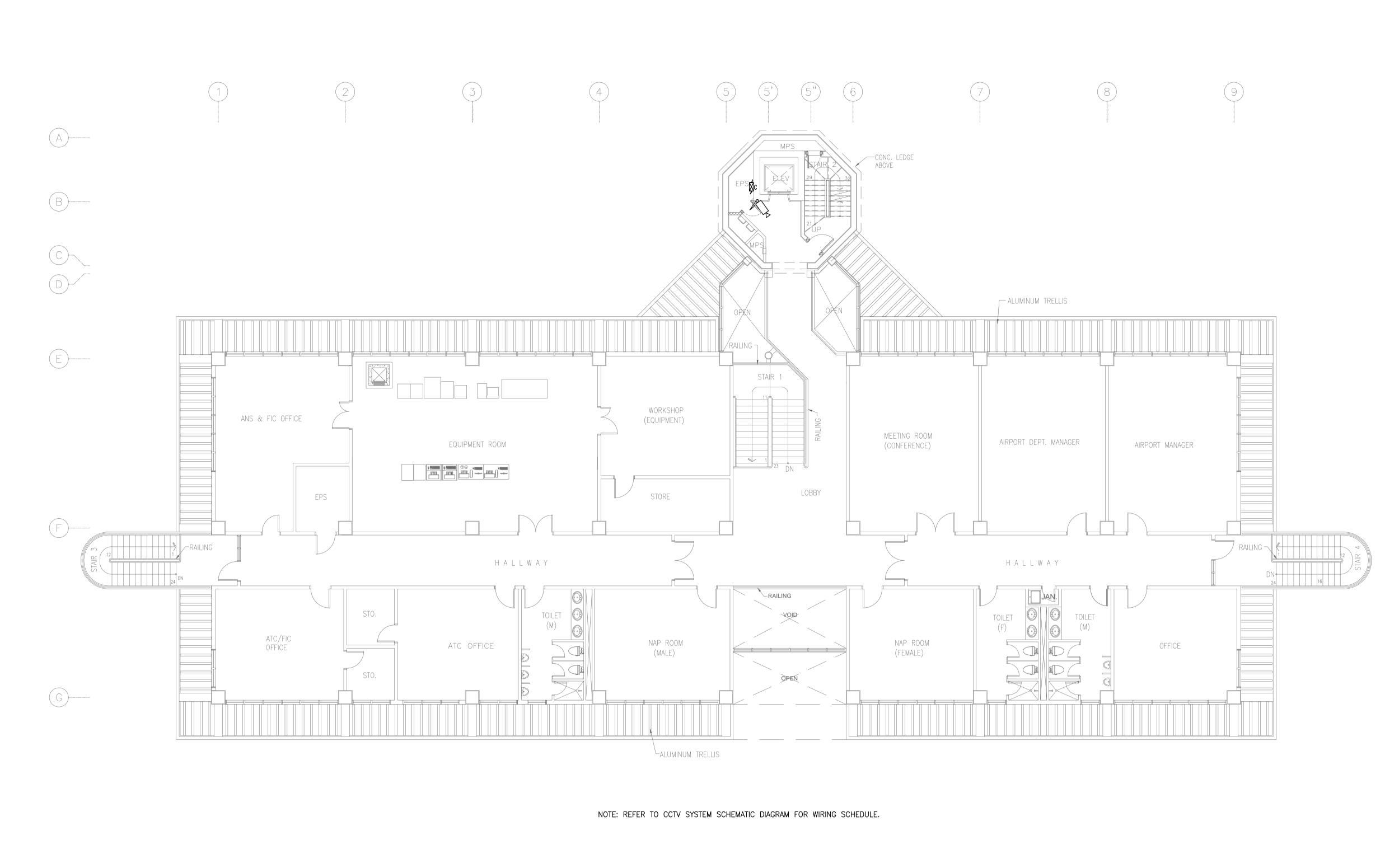




NOTE: REFER TO CCTV SYSTEM SCHEMATIC DIAGRAM FOR WIRING SCHEDULE.

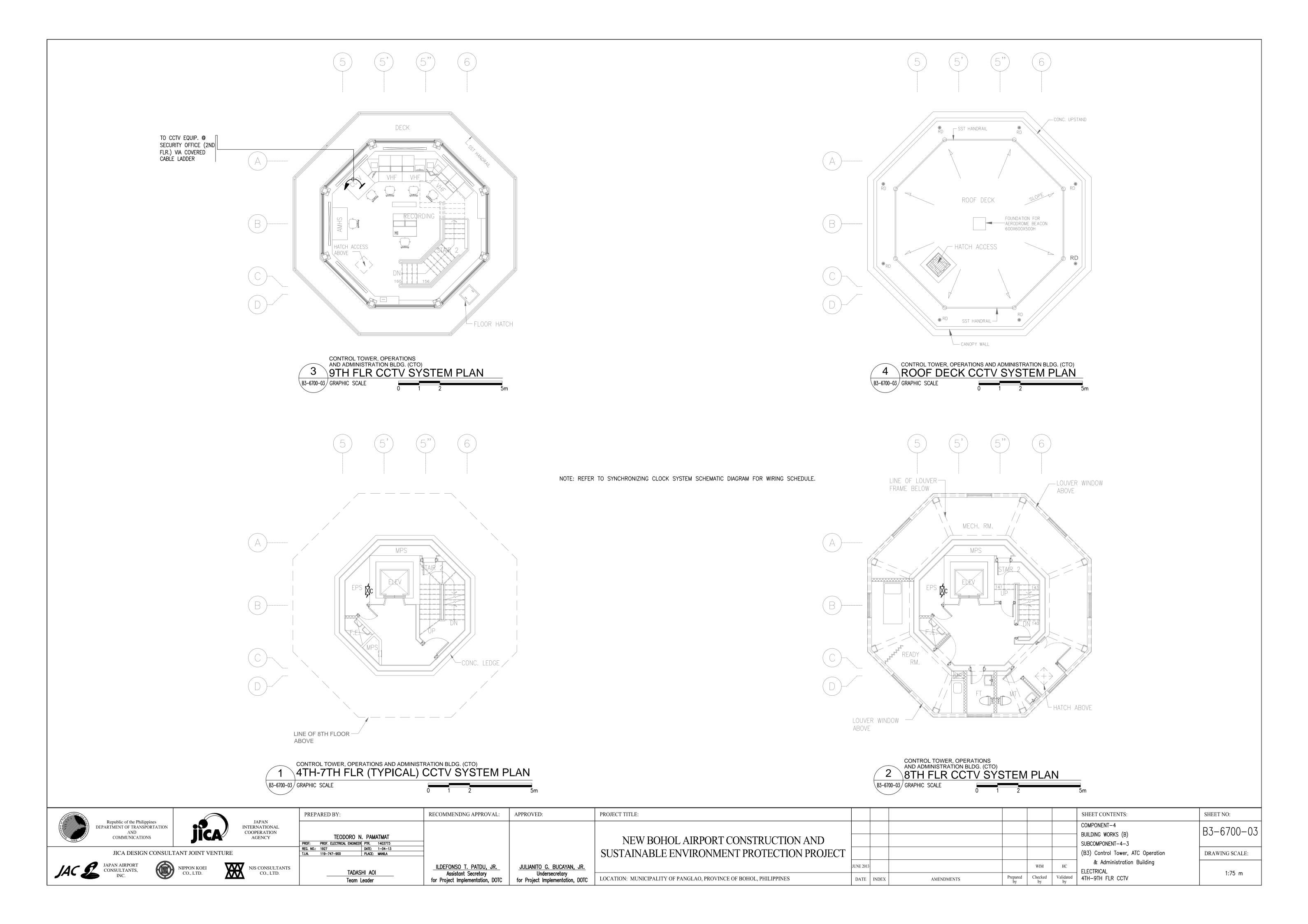


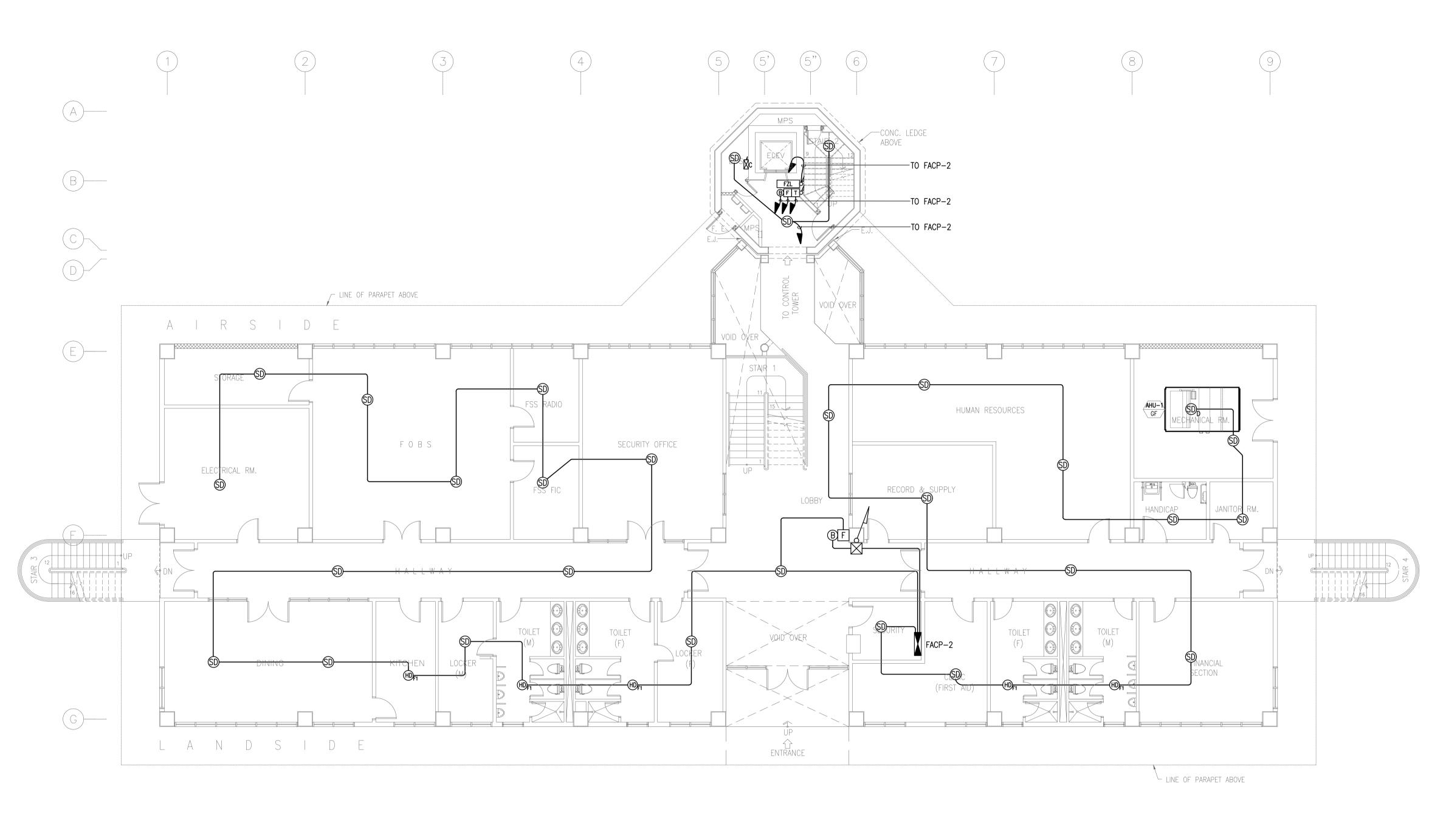
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1899 11	Republic of the Philippines DEPARTMENT OF TRANSPORTATION AND COMMUNICATIONS	jica	JAPAN INTERNATIONAL COOPERATION AGENCY	TEODORO N. PAMATMAT PROF: PROF. ELECTRICAL ENGINEER PTR. 1403773			NEW BOHOL AIRPORT CONSTRUCTION AND					—— E	COMPONENT-4 BUILDING WORKS (B) SUBCOMPONENT-4-3	B3-6700-01
	JICA DESIGN CONSULTA	NT JOINT VENTURE		REG. NO.: 1927 DATE: 1-04-13 T.I.N. 119-747-900 PLACE: MANILA	_		SUSTAINABLE ENVIRONMENT PROTECTION PROJECT						(B3) Control Tower, ATC Operation	DRAWING SCALE:
JAC	JAPAN AIRPORT CONSULTANTS, INC.		NJS CONSULTANTS CO., LTD.	TADASHI AOI Team Leader	ILDEFONSO T. PATDU, JR. Assistant Secretary for Project Implementation, DOTC	JULIANITO G. BUCAYAN, JR. Undersecretary for Project Implementation, DOTC	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	JUNE 2013 DATE INDEX	AMENDMENTS	Prepared by	WIM Checked by		& Administration Building ELECTRICAL GRD FLR CCTV	1:100 m





RECOMMENDNG APPROVAL: APPROVED: PROJECT TITLE: SHEET CONTENTS: SHEET NO: PREPARED BY: Republic of the Philippines EPARTMENT OF TRANSPORTATION AND JAPAN INTERNATIONAL COOPERATION COMPONENT-4 B3-6700-02 BUILDING WORKS (B) TEODORO N. PAMATMAT COMMUNICATIONS NEW BOHOL AIRPORT CONSTRUCTION AND SUBCOMPONENT-4-3 SUSTAINABLE ENVIRONMENT PROTECTION PROJECT JICA DESIGN CONSULTANT JOINT VENTURE (B3) Control Tower, ATC Operation DRAWING SCALE: & Administration Building JAPAN AIRPORT CONSULTANTS, INC. NIPPON KOEI CO., LTD. XXILDEFONSO T. PATDU, JR. JULIANITO G. BUCAYAN, JR. JUNE 2013 WIM NJS CONSULTANTS CO., LTD. Prepared Checked by Validated by ELECTRICAL 2ND FLR CCTV TADASHI AOI 1:100 m Assistant Secretary for Project Implementation, DOTC Undersecretary for Project Implementation, DOTC DATE | INDEX | LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES **AMENDMENTS**





NOTE: REFER TO FIRE DETECTION AND ALARM SYSTEM SCHEMATIC DIAGRAM FOR WIRING SCHEDULE.

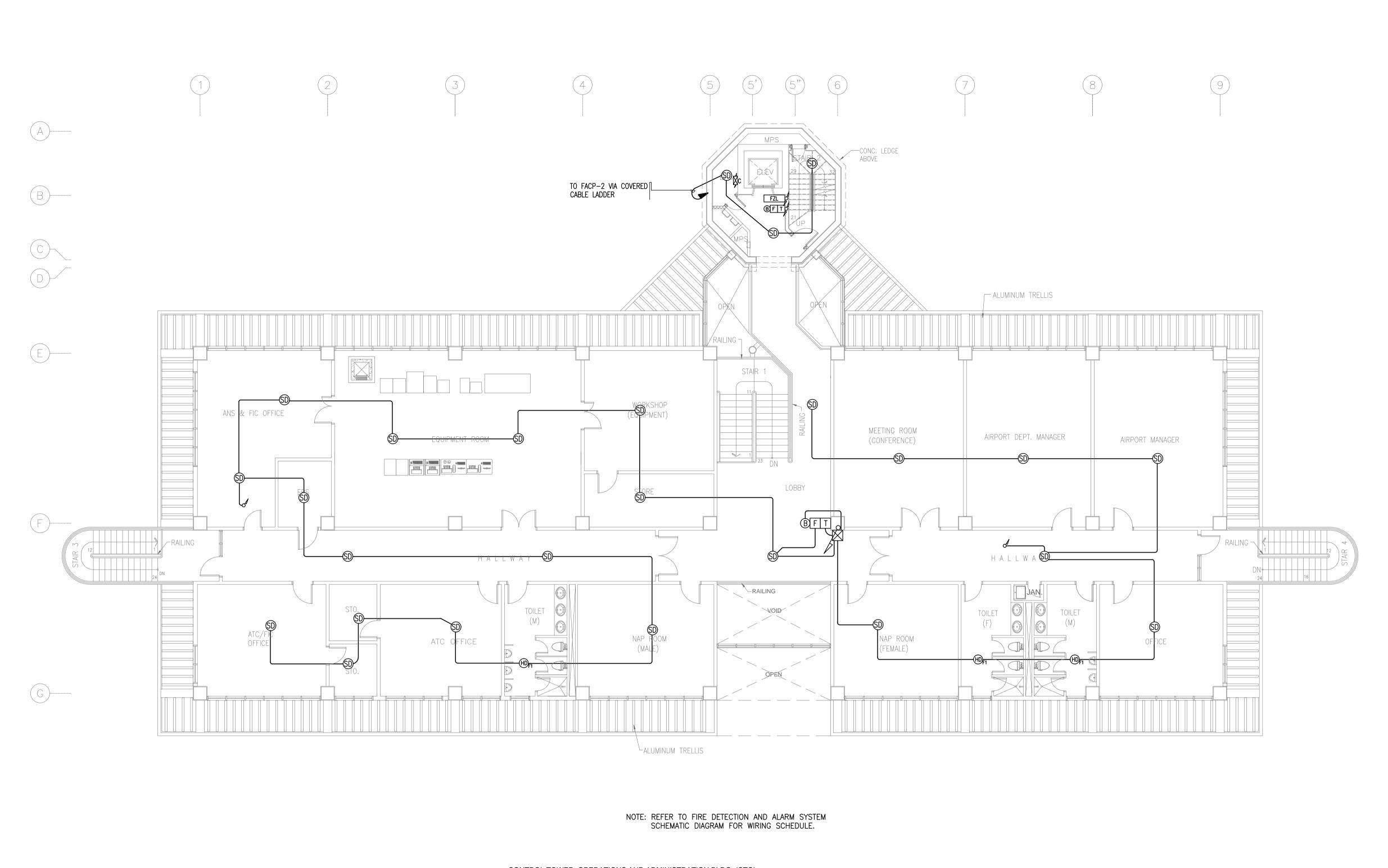
CONTROL TOWER, OPERATIONS AND ADMINISTRATION BLDG. (CTO)

GROUND FLOOR FIRE DETECTION AND ALARM SYSTEM PLAN

B3-6800-01 GRAPHIC SCALE

0 1 2 5 10mm

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transfer and the state of the s		PREPARED BY:	RECOMMENDNG APPROVAL:	APPROVED:	PROJECT TITLE:			SHEET CONTENTS:	SHEET NO:
Republic of the Philippines DEPARTMENT OF TRANSPORTATION	JAPAN INTERNATIONAL COOPERATION AGENCY							COMPONENT-4	B3-6800-01
COMMUNICATIONS	AGENCY AGENCY	TEODORO N. PAMATMAT			NEW BOHOL AIRPORT CONSTRUCTION AND			BUILDING WORKS (B)	0000 01
		PROF: PROF. ELECTRICAL ENGINEER PTR. 1403773			NEW BOHOEFING ON CONSTRUCTION TO B			SUBCOMPONENT-4-3	
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JAC S JAPAN AIRPORT CONSULTANTS, INC.	NIPPON KOEI VVV NJS CONSULTANTS	TADACHI AOI	ILDEFONSO T. PATDU, JR.	JULIANITO G. BUCAYAN, JR.		JUNE 2013	WIM	HC & Administration Building	
INC.	CO., LTD.	TADASHI AOI Team Leader	Assistant Secretary for Project Implementation, DOTC	Undersecretary for Project Implementation, DOTC	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	DATE INDEX	AMENDMENTS Prepared Checked by by	Validated by GRD FLR FDAS	1:100 m

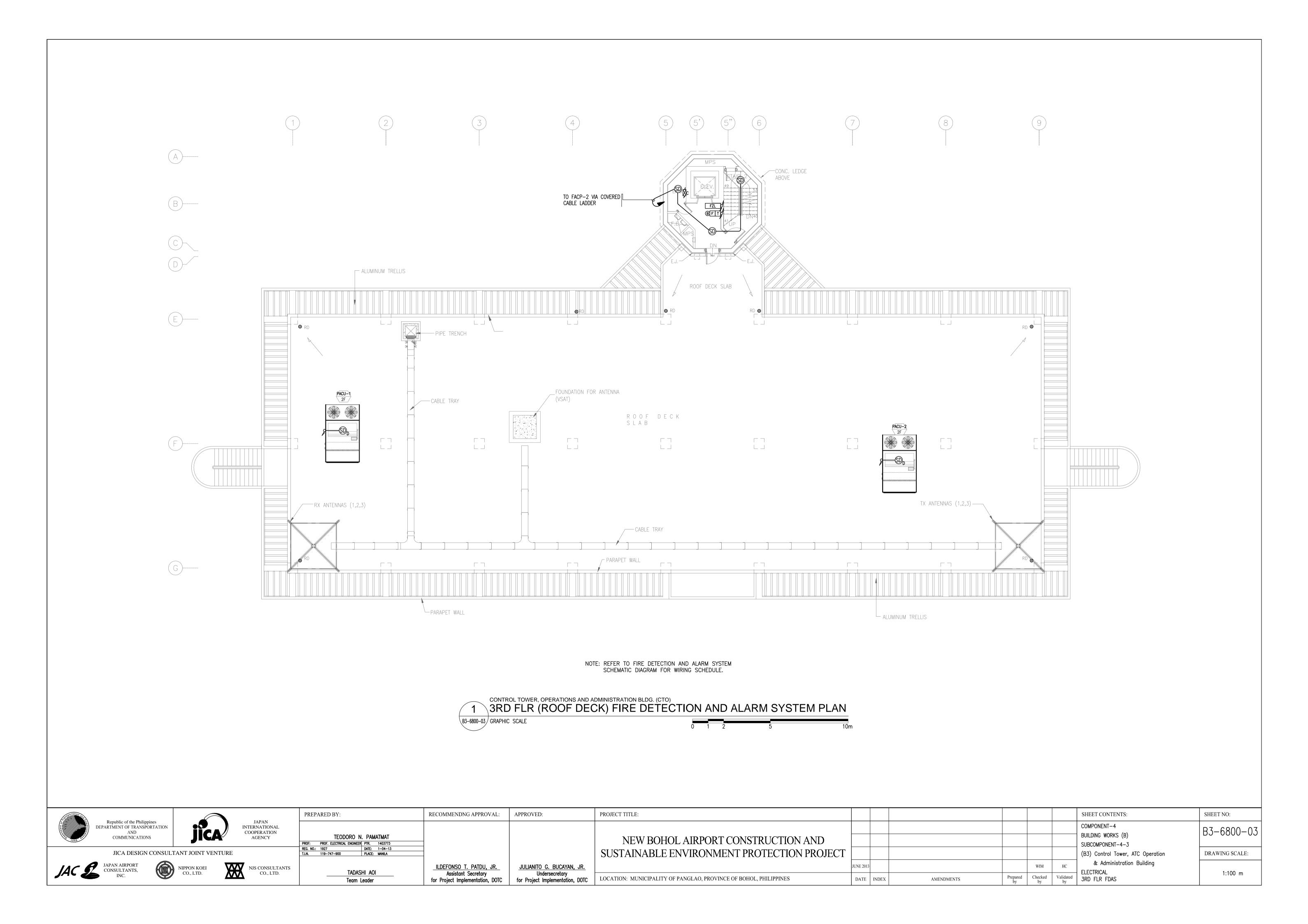


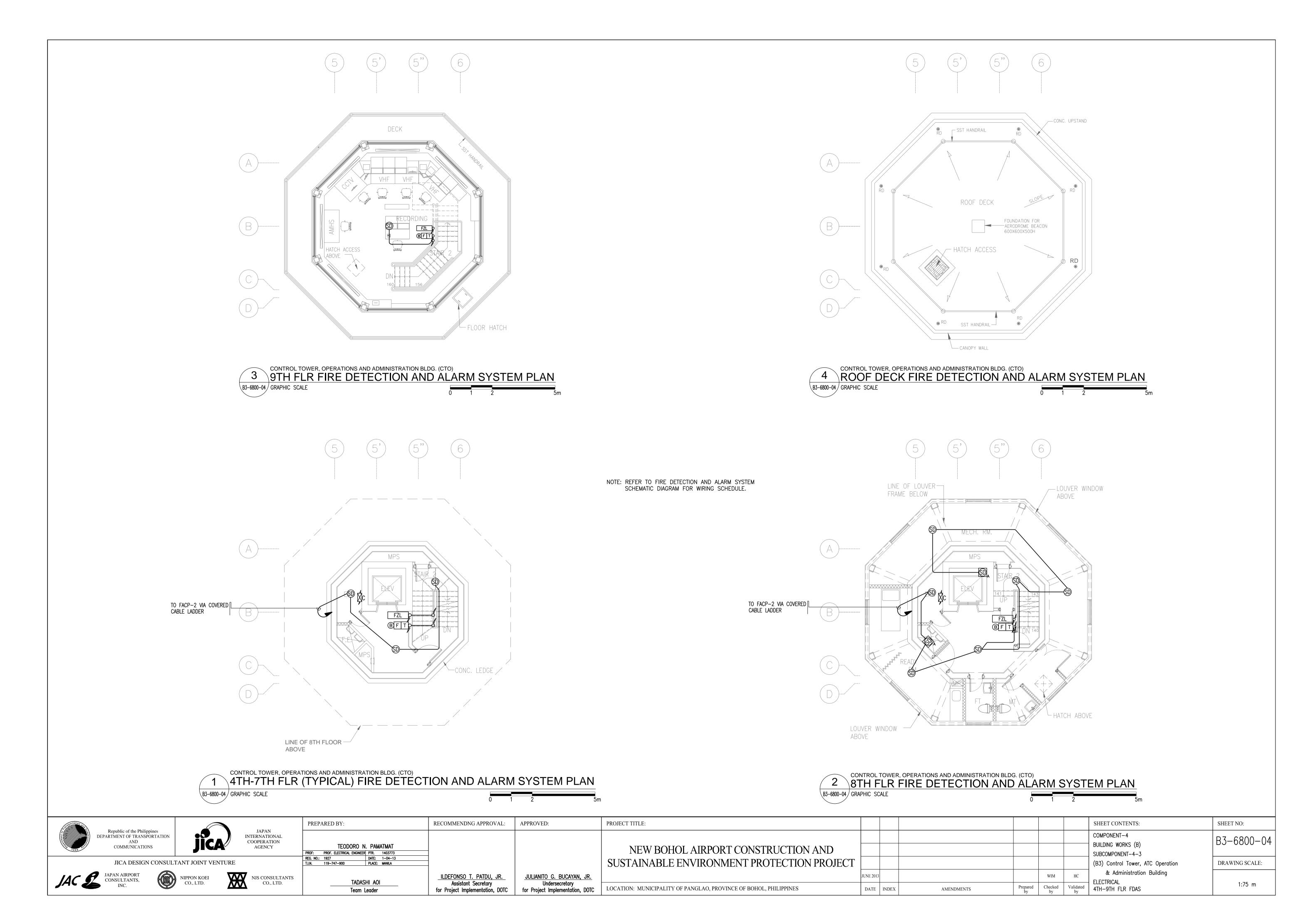
CONTROL TOWER, OPERATIONS AND ADMINISTRATION BLDG. (CTO)
SECOND FLOOR FIRE DETECTION AND ALARM SYSTEM PLAN

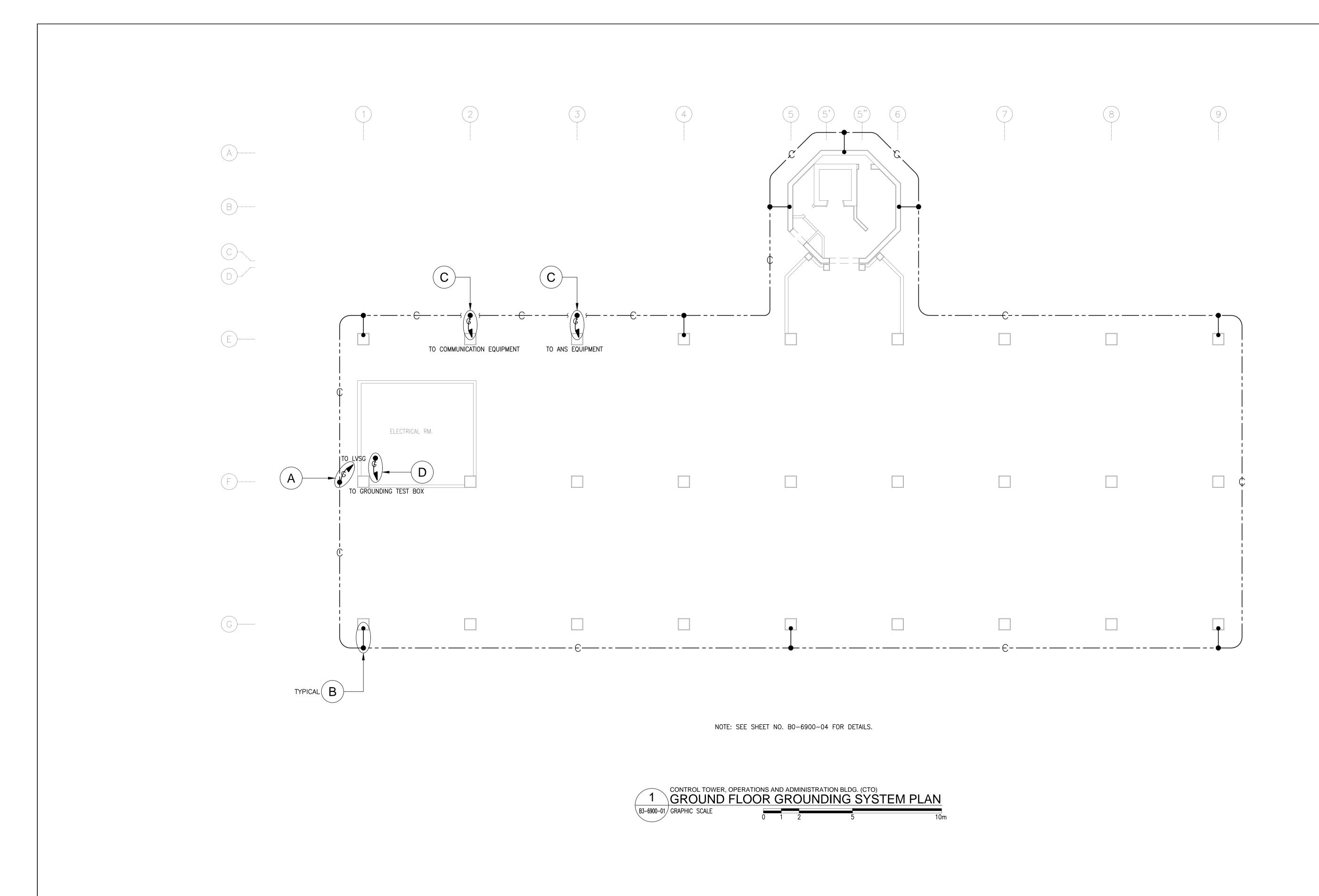
B3-6800-02 GRAPHIC SCALE

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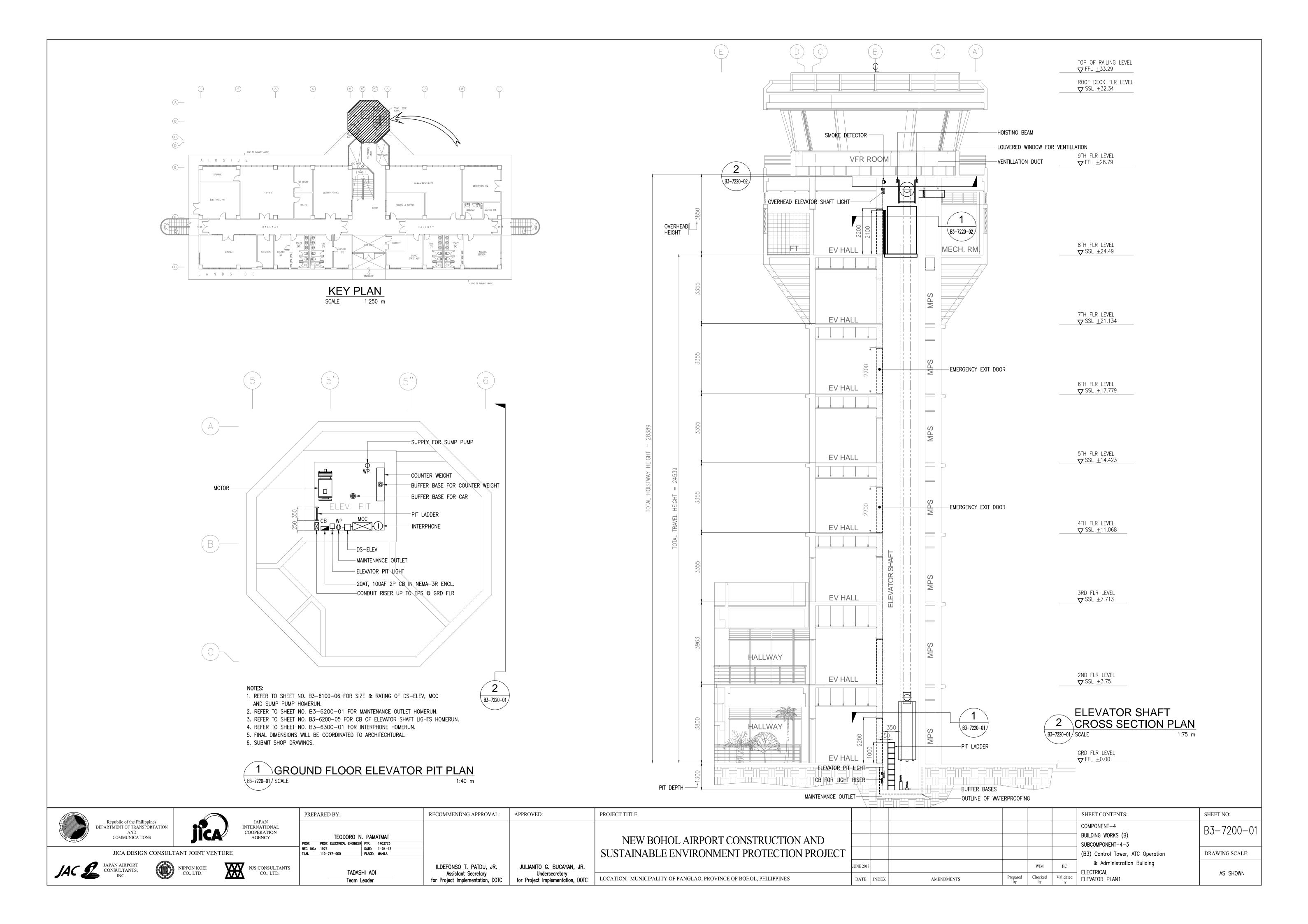
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Republic of the DEPARTMENT OF TR	Philippines ANSPORTATION		JAPAN INTERNATIONAL COOPERATION								COMPONENT-4	B3-6800-02
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INC.	CO., L	TD.	CO., LTD.	Team Leader	Assistant Secretary for Project Implementation, DOTC	Undersecretary for Project Implementation, DOTC	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	DATE INDEX AMENDMENTS	Prepared by	Checked Validated by	2ND FLR FDAS	1:100 m





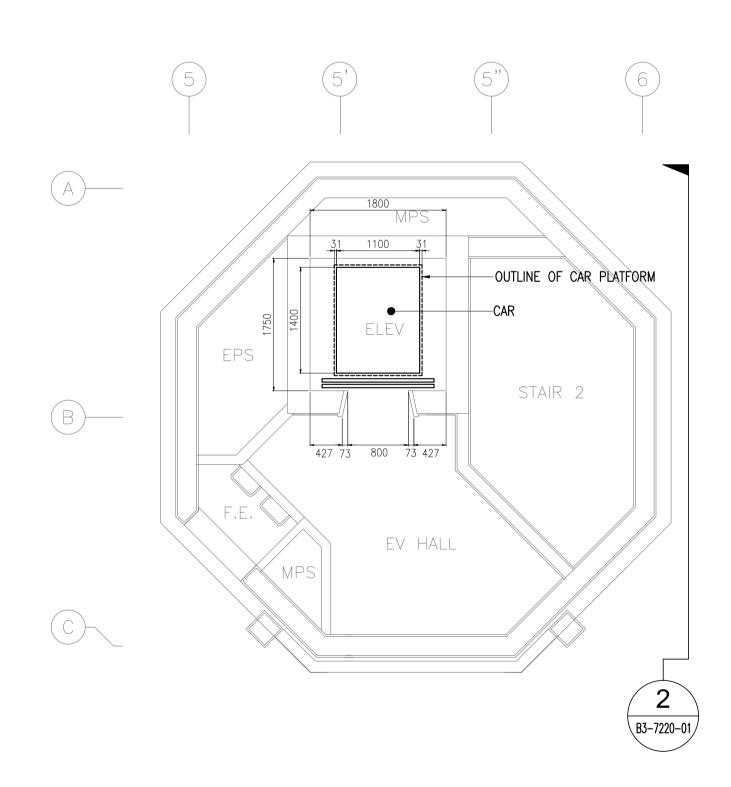


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Republic of the Philippines DEPARTMENT OF TRANSPORTATION AND COMMUNICATIONS JAPAN INTERNATIONAL COOPERATION AGENCY	TEODORO N. PAMATMAT PROF: PROF. ELECTRICAL ENGINEER PTR. 1403773		NEW BOHOL AIRPORT CONSTRUCTION AND		COMPONENT-4 BUILDING WORKS (B) SUBCOMPONENT-4-3	B3-6900-01
JICA DESIGN CONSULTANT JOINT VENTURE	REG. NO.: 1927 DATE: 1-04-13 T.I.N. 119-747-900 PLACE: MANILA		SUSTAINABLE ENVIRONMENT PROTECTION PROJECT		(B3) Control Tower, ATC Operation	DRAWING SCALE:
JAC S JAPAN AIRPORT CONSULTANTS, INC. NIPPON KOEI CO., LTD. NJS CONSULTANTS CO., LTD.	TADASHI AOI Team Leader	ILDEFONSO T. PATDU, JR. Assistant Secretary for Project Implementation, DOTC JULIANITO G. BUCAYAN, JR. Undersecretary for Project Implementation, DOTC	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES DATE	WIM HC E INDEX AMENDMENTS Prepared Checked by Validate by	& Administration Building ELECTRICAL GRD FLR GROUNDING	1:100 m

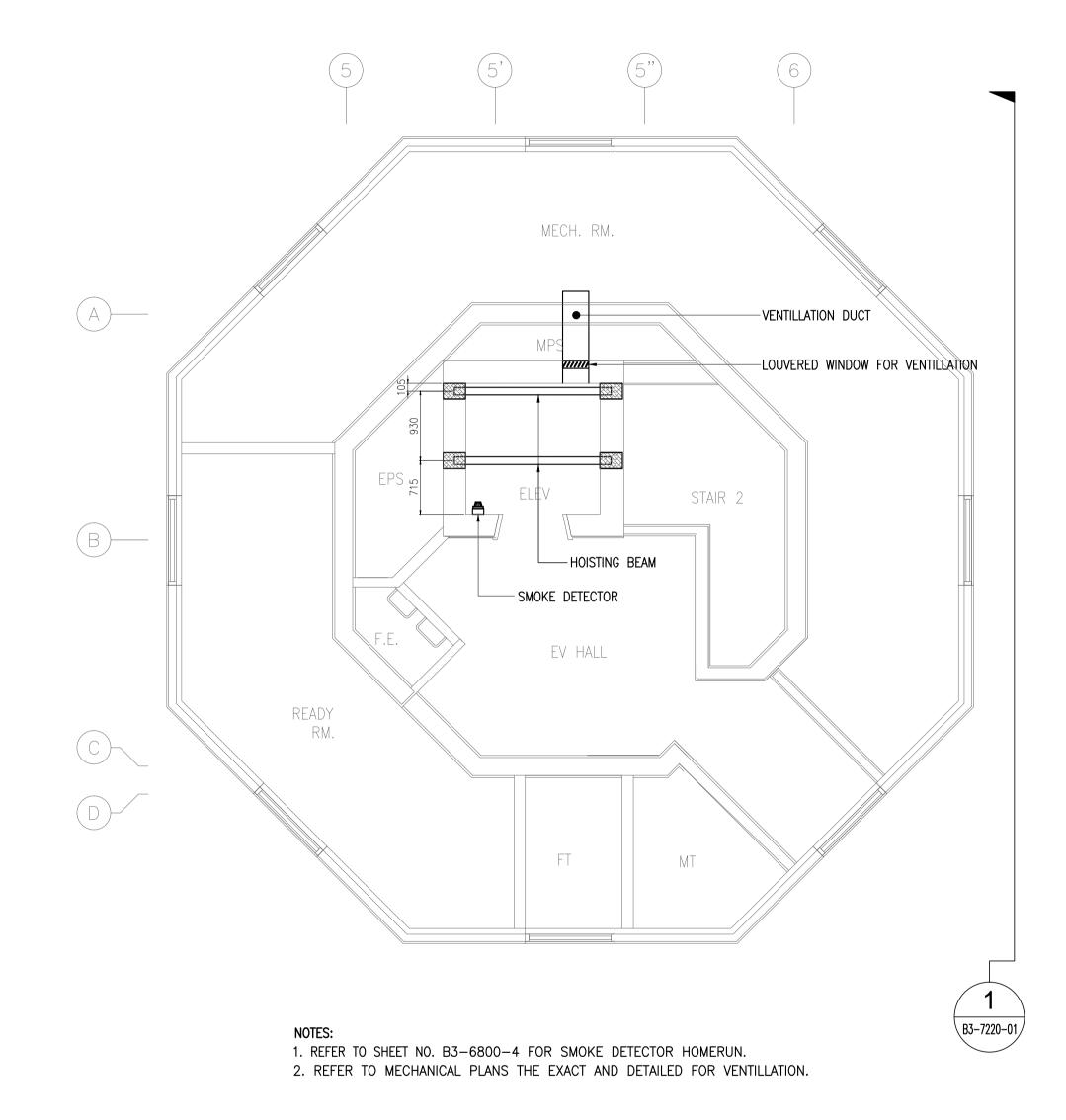


EV FOR CONTROL TOWER

	SPECIFICATION
TYPE/USE	UAX MACHINE ROOM LESS ELEVATOR
RATED LOAD	630 KGS. (9 PERSONS)
RATED SPEED	60 m/MIN
CONTROL SYSTEM	INVERTER & MICROCOMPUTER CONTROLLED(AUTOMATIC)
OPERATION SYSTEM	SIMPLEX SELECTIVE COLLECTIVE (ELECTRIC)
PLATFORM SIZE	1400 mm(W) x 1100 mm (D)
CAR DOOR	TWO(2) PANEL CENTER OPENING
HOISTWAY DOOR	TWO(2) PANEL CENTER OPENING
SERVICE FLOOR	3 STOPS/ 8 FLOORS (G,2,8)
TRAVEL	24,539 mm
TOTAL HEIGHT	28,389 mm
SUSPENSION ROPE	REFER TO SHOP DRAWINGS
TRACTION MOTOR	REFER TO SHOP DRAWINGS
DOOR MOTOR	REFER TO SHOP DRAWINGS
SIGNAL	DIGITAL (DOT MATRIX)
INDICATOR	ALL FLOORS : VIB-8S
ALARM	INTERPHONE
POWER SOURCE	230 V, 3 PHASE , 60 HZ

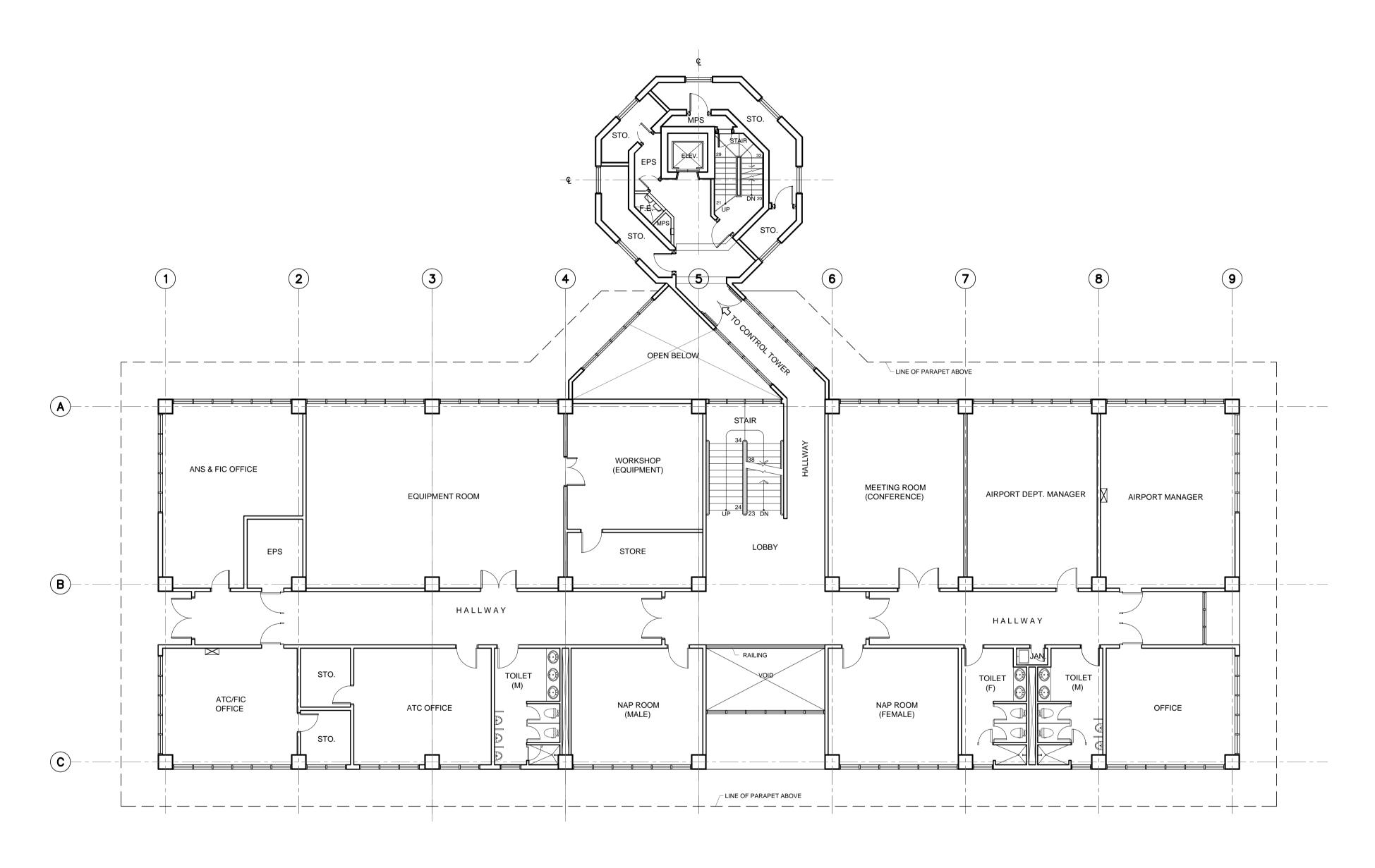






2 OVERHEAD ELEVATOR SHAFT LAYOUT PLAN
B3-7220-02 SCALE
1:50 m

insportation are			PREPARED BY:	RECOMMENDNG APPROVAL: APPROVED:	PROJECT TITLE:		SHEET CONTENTS:	SHEET NO:
in the state of th	Republic of the Philippines DEPARTMENT OF TRANSPORTATION AND	JAPAN INTERNATIONAL COOPERATION					COMPONENT-4	B3-7200-02
1899 BIOS	COMMUNICATIONS	AGENCY	TEODORO N. PAMATMAT PROF: PROF. ELECTRICAL ENGINEER PTR. 1403773		NEW BOHOL AIRPORT CONSTRUCTION AND		BUILDING WORKS (B) SUBCOMPONENT-4-3	
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JAC 9	JAPAN AIRPORT CONSULTANTS, INC.	NIPPON KOEI CO., LTD. NJS CONSULTANTS CO., LTD.	TADASHI AOI Team Leader	ILDEFONSO T. PATDU, JR. Assistant Secretary for Project Implementation, DOTC JULIANITO G. BUCAYAN, JR. Undersecretary for Project Implementation, DOTC	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES DATE	WIM HC INDEX AMENDMENTS Prepared Checked by Validate by	& Administration Building ELECTRICAL ed ELEVATOR PLAN2	AS SHOWN



Location of LCD at ADM &CTO 2F S=1:200

<u>Legend</u> <u>Note</u>

: LCD monitor

1. Size of LCD shall be conformed with drawing related to the system block diagram.

: LCD monitor with waterproof box

is portation of the state of th	PREPARED BY:	RECOMMENDNG APPROVAL: APPROVED:	PROJECT TITLE:		SHEET CONTENTS:	SHEET NO:
Republic of the Philippines DEPARTMENT OF TRANSPORTATION AND COMMUNICATIONS JAPAN INTERNATIONAL COOPERATION AGENCY	TEODORO N. PAMATMAT PROF: PROF. ELECTRICAL ENGINEER PTR. 1403773		NEW BOHOL AIRPORT CONSTRUCTION AND		SUBCOMPONENT-4-3	B3-7500-01
JICA DESIGN CONSULTANT JOINT VENTURE	REG. NO.: 1927 DATE: 1-04-13 T.I.N. 119-747-900 PLACE: MANILA		SUSTAINABLE ENVIRONMENT PROTECTION PROJECT		(B3) Control Tower, ATC Operation & Administration Building	DRAWING SCALE:
JAC S JAPAN AIRPORT CONSULTANTS, INC. NIPPON KOEI CO., LTD. NIS CONSULTANTS CO., LTD.	TADASHI AOI Team Leader	ILDEFONSO T. PATDU, JR. Assistant Secretary for Project Implementation, DOTC JULIANITO G. BUCAYAN, JR. Undersecretary for Project Implementation, DOTC	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES DATE	INDEX AMENDMENTS Prepared by Checked by	TValidated by ELECTRICAL LOCATION OF LCD 2F	AS SHOWN

