

COLUMN ELEVATION
 SCALE: 1:200 MTS

TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY	CONCURRED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE:	PREPARED BY:	REVIEWED AS TO PLAN:	SUBMITTED BY:	SHEET CONTENTS:	SHEET NO.
	 DIR. DAVID B. BUNCALLAN <small>EXECUTIVE DIRECTOR, TESDA</small>	 DIR. JUNETE OROZCO <small>DEPUTY DIRECTOR OFFICE OF THE DIRECTOR GENERAL</small>	 SEC. ISIDRO S. LAPENA PH.D., CSEE <small>DIRECTOR GENERAL</small>	PROPOSED TESDA INNOVATION CENTER - MARIVELES <small>LOCATION: BANGALAY, CALINSA, MARIVELES, BATAAN</small>	<small> GRAPHIC AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS ARE THE PROPERTY OF TESDA. ANY REPRODUCTION OR DISSEMINATION OF THESE DOCUMENTS WITHOUT THE WRITTEN CONSENT OF TESDA SHALL BE UNLAWFUL. FOR ANY PERSON TO REPRODUCE OR DISSEMINATE THESE DOCUMENTS WITHOUT THE WRITTEN CONSENT OF TESDA SHALL BE UNLAWFUL. FOR ANY PERSON TO REPRODUCE OR DISSEMINATE THESE DOCUMENTS WITHOUT THE WRITTEN CONSENT OF TESDA SHALL BE UNLAWFUL. </small>	 ENGR. EMMANUEL G. DELA TORRE <small>CIVIL ENGINEER, SPU-000</small>	 ENGR. FRANCISCO B. NARAG, JR. <small>CIVIL ENGINEER, TESDA-1841</small>	 ENGR. ROY QUI P. MINGARACAL <small>MECHANICAL ENGINEER, SPU-000</small>	COLUMNS ELEVATION

BEAM SCHEDULE (C28:Fy415) (LEVEL : 2 m)

BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS			SFR
	B	D	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	
B1,B10 B3,B36,B42,B43,B48,B50,B51,B71,B72,B73,B74,B76,B77,B80,B82	250	400	2-Ø18	2-Ø18	2-Ø18	2-Ø18	2-Ø18	2-Ø18	12-2L-Ø10@75 O.C.	2-2L-Ø10@125 O.C.	12-2L-Ø10@75 O.C.	-
B1,B21,B22,B26 B27,B28,B29,B33 B34,B35,B49,B52 B60,B62,B70,B75 B77,B78,B81	250	400	2-Ø18	2-Ø18	2-Ø18	2-Ø18	2-Ø18	2-Ø18	12-2L-Ø10@75 O.C.	18-2L-Ø10@150 O.C.	12-2L-Ø10@75 O.C.	-
B11,B20	250	400	2-Ø18	2-Ø18	2-Ø18	3-Ø18	3-Ø18	3-Ø18	12-2L-Ø10@75 O.C.	1-2L-Ø10@125 O.C.	12-2L-Ø10@75 O.C.	-
B12,B19	250	400	2-Ø18	2-Ø18	2-Ø18	3-Ø18	3-Ø18	3-Ø18	12-2L-Ø10@75 O.C.	16-2L-Ø10@150 O.C.	12-2L-Ø10@75 O.C.	-
B13,B14	250	400	2-Ø18	2-Ø18	2-Ø18	3-Ø18	3-Ø18	3-Ø18	12-2L-Ø10@75 O.C.	21-2L-Ø10@125 O.C.	12-2L-Ø10@75 O.C.	-
B15,B16,B17,B18 B55	250	400	2-Ø18	2-Ø18	2-Ø18	3-Ø18	3-Ø18	3-Ø18	12-2L-Ø10@75 O.C.	22-2L-Ø10@125 O.C.	12-2L-Ø10@75 O.C.	-
B23,B25,B38,B39 B40,B41,B45,B46 B47,B53,B54,B55 B56,B57,B58,B59 B67,B68,B69	250	400	2-Ø18	2-Ø18	2-Ø18	2-Ø18	2-Ø18	2-Ø18	12-2L-Ø10@75 O.C.	21-2L-Ø10@125 O.C.	12-2L-Ø10@75 O.C.	-
B24	250	400	2-Ø18	2-Ø18	2-Ø18	2-Ø18	2-Ø18	2-Ø18	12-2L-Ø10@75 O.C.	6L-2L-Ø10@125 O.C.	12-2L-Ø10@75 O.C.	-
B30	250	400	2-Ø18	2-Ø18	2-Ø18	2-Ø18	2-Ø18	2-Ø18	12-2L-Ø10@75 O.C.	17-2L-Ø10@150 O.C.	12-2L-Ø10@75 O.C.	-
B31,B32	250	400	2-Ø18	2-Ø18	2-Ø18	2-Ø18	2-Ø18	2-Ø18	12-2L-Ø10@75 O.C.	21-2L-Ø10@125 O.C.	12-2L-Ø10@75 O.C.	1-#16EF
B44,B43	250	400	2-Ø18	2-Ø18	2-Ø18	2-Ø18	2-Ø18	2-Ø18	12-2L-Ø10@75 O.C.	23-2L-Ø10@125 O.C.	12-2L-Ø10@75 O.C.	-
B51,B66	250	400	2-Ø18	2-Ø18	2-Ø18	2-Ø18	2-Ø18	2-Ø18	14-2L-Ø10@125 O.C.	12-2L-Ø10@125 O.C.	12-2L-Ø10@125 O.C.	-
B03	250	400	2-Ø18	2-Ø18	2-Ø18	3-Ø18	3-Ø18	3-Ø18	5-2L-Ø10@150 O.C.	3-2L-Ø10@150 O.C.	5-2L-Ø10@150 O.C.	-
B84	250	400	2-Ø18	2-Ø18	2-Ø18	3-Ø18	3-Ø18	3-Ø18	12-2L-Ø10@75 O.C.	6-2L-Ø10@125 O.C.	12-2L-Ø10@75 O.C.	-

BEAM SCHEDULE (C28:Fy415) (LEVEL : 5.6 m)

BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS			SFR
	B	D	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	
B1	280	430	3-Ø18	2-Ø18	3-Ø18	3-Ø18	3-Ø18	3-Ø20	11-2L-Ø10@75 O.C.	-	11-2L-Ø10@75 O.C.	-
B2	280	430	2-Ø18	2-Ø18	3-Ø18	3-Ø20	3-Ø18	3-Ø25	13-2L-Ø10@75 O.C.	21-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-
B3,B36,B45	260	430	2-Ø18	2-Ø18	3-Ø18	3-Ø25	3-Ø18	3-Ø25	21-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	13-2L-Ø10@75 O.C.	-
B4,B5	280	430	2-Ø18	3-Ø18	3-Ø18	3-Ø25	3-Ø18	3-Ø25	13-2L-Ø10@75 O.C.	21-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-
B6	260	430	3-Ø18	3-Ø18	2-Ø18	3-Ø25	3-Ø18	3-Ø25	13-2L-Ø10@75 O.C.	21-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-
B7,B26,B38	280	430	3-Ø18	2-Ø18	3-Ø18	3-Ø25	3-Ø18	3-Ø20	13-2L-Ø10@75 O.C.	21-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-
B8,B27	260	430	2-Ø18	2-Ø18	3-Ø18	3-Ø20	3-Ø18	3-Ø20	13-2L-Ø10@75 O.C.	13-2L-Ø10@75 O.C.	13-2L-Ø10@75 O.C.	-
B9,B41,B42,B43	260	430	3-Ø18	2-Ø18	3-Ø18	3-Ø20	3-Ø18	3-Ø20	13-2L-Ø10@75 O.C.	21-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-
B10	260	430	3-Ø18	2-Ø18	3-Ø18	3-Ø20	3-Ø18	3-Ø18	11-2L-Ø10@75 O.C.	-	11-2L-Ø10@75 O.C.	-
B11	280	430	3-Ø18	2-Ø18	3-Ø18	2-Ø25	2-Ø20	2-Ø20	5-2L-Ø10@125 O.C.	3-2L-Ø10@125 O.C.	5-2L-Ø10@125 O.C.	-
B12	260	430	3-Ø18	3-Ø18	3-Ø18	2-Ø20	2-Ø18	2-Ø20	13-2L-Ø10@75 O.C.	21-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-
B13	280	430	2-Ø18	3-Ø18	3-Ø18	2-Ø20	2-Ø18	2-Ø25	13-2L-Ø10@75 O.C.	21-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-
B14	260	430	2-Ø18	3-Ø18	3-Ø18	2-Ø25	2-Ø18	2-Ø25	13-2L-Ø10@75 O.C.	28-2L-Ø10@100 O.C.	13-2L-Ø10@75 O.C.	-
B15	260	430	3-Ø18	3-Ø18	3-Ø18	2-Ø25	2-Ø18	2-Ø25	13-2L-Ø10@75 O.C.	26-2L-Ø10@100 O.C.	13-2L-Ø10@75 O.C.	-
B16	260	430	3-Ø18	3-Ø18	3-Ø18	2-Ø20	2-Ø18	2-Ø20	13-2L-Ø10@75 O.C.	21-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-
B17,B50	280	430	3-Ø18	3-Ø18	3-Ø18	2-Ø25	2-Ø20	2-Ø25	13-2L-Ø10@75 O.C.	21-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-
B18	280	430	3-Ø18	2-Ø18	3-Ø18	2-Ø20	2-Ø18	2-Ø20	13-2L-Ø10@75 O.C.	21-2L-Ø10@75 O.C.	13-2L-Ø10@75 O.C.	-
B19,B76,B77,B79 B83	280	430	3-Ø18	2-Ø18	3-Ø18	2-Ø25	2-Ø18	2-Ø25	13-2L-Ø10@75 O.C.	21-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-
B20	260	430	3-Ø18	2-Ø18	3-Ø18	2-Ø25	2-Ø25	2-Ø25	5-2L-Ø10@125 O.C.	3-2L-Ø10@125 O.C.	5-2L-Ø10@125 O.C.	-

BEAM SCHEDULE
SCALE: _____ NTS

SLAB SCHEDULE (C21 : FY275) (LEVEL : 5.6 M)

SLAB MARKED	SLAB THICKNESS	BOTTOM REINFORCEMENT		TOP REINFORCEMENT				
		ALONG SHORT SPAN	ALONG LONG SPAN	OVER LONG SUPPORT		OVER SHORT SUPPORT		DISTRIBUTION
		FULL LENGTH	FULL LENGTH	CONTINUOUS SUPPORT	END SUPPORT	CONTINUOUS SUPPORT	END SUPPORT	
B3,B13,B37 B39	150	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.	Ø12 @ 200 O.C.	Ø12 @ 225 O.C.	Ø12 @ 175 O.C.	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.
B3,B10,B11 B33,B34,B35 B36	150	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.	-	Ø12 @ 175 O.C.	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.
B4,B17,B18 B19	150	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.	-	-	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.
B5,BB,89	150	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.	-	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.
B16,B18,B19 B21,B23,B28	150	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.	Ø12 @ 200 O.C.	Ø12 @ 225 O.C.	Ø12 @ 200 O.C.	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.
B17,B20,B25 B25	150	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.	-	Ø12 @ 200 O.C.	-	Ø12 @ 225 O.C.
B24,B27	150	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.	Ø12 @ 200 O.C.	-	Ø12 @ 200 O.C.	-	Ø12 @ 225 O.C.
B26,B30	150	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.	-	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.
B32,B37	150	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.	Ø12 @ 200 O.C.	-	Ø12 @ 175 O.C.	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.

SLAB SCHEDULE (C21 : FY275) (LEVEL : 9.2 M)

SLAB MARKED	SLAB THICKNESS	BOTTOM REINFORCEMENT		TOP REINFORCEMENT				
		ALONG SHORT SPAN	ALONG LONG SPAN	OVER LONG SUPPORT		OVER SHORT SUPPORT		DISTRIBUTION
		FULL LENGTH	FULL LENGTH	CONTINUOUS SUPPORT	END SUPPORT	CONTINUOUS SUPPORT	END SUPPORT	
B2,B15,B26 B27	150	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.	Ø12 @ 200 O.C.	Ø12 @ 225 O.C.	Ø12 @ 200 O.C.	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.
B3,B4,B5,B8 B28,B29,B30 B31	150	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.	Ø12 @ 200 O.C.	-	Ø12 @ 200 O.C.	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.
B7,B8,B32 B33	150	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.	-	Ø12 @ 175 O.C.	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.
B9,B34	150	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.	Ø12 @ 200 O.C.	Ø12 @ 225 O.C.	Ø12 @ 175 O.C.	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.
B11,B16	150	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.	Ø12 @ 200 O.C.	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.
B12,B13,B14 B15,B20,B21	150	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.	Ø12 @ 200 O.C.	-	Ø12 @ 225 O.C.	-	Ø12 @ 225 O.C.
B16,B17,B24 B25	150	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.	Ø12 @ 225 O.C.	-	Ø12 @ 200 O.C.	-	Ø12 @ 225 O.C.

SLAB SCHEDULE
SCALE: _____ NTS



CONCURRED BY: <i>(Signature)</i> DIR. JUAN B. BUNALLOO EXECUTIVE DIRECTOR, NITED	RECOMMENDING APPROVAL: <i>(Signature)</i> DIR. JUAN C. OROZCO OFFICE OF THE DIRECTOR GENERAL	APPROVED BY: <i>(Signature)</i> SEC. ISIBRO S. LAPERA, PhD., CSEE DIRECTOR GENERAL	PROJECT TITLE: PROPOSED TESDA INNOVATION CENTER - MARIVELES	PREPARED BY: <i>(Signature)</i> ENGR. ENRIQUE G. DELA TORRE CIVIL ENGINEER, SP-003	REVIEWED AS TO PLAN: <i>(Signature)</i> ENGR. FRANCISCO B. NARAG, JR. CIVIL ENGINEER, YE804 - 18AT	SUBMITTED BY: <i>(Signature)</i> ENGR. ROY LOUIS P. MINGARACAL HEAD, SP-003	SHEET CONTENTS: BEAM SCHEDULE SLAB SCHEDULE	SHEET NO. S-19
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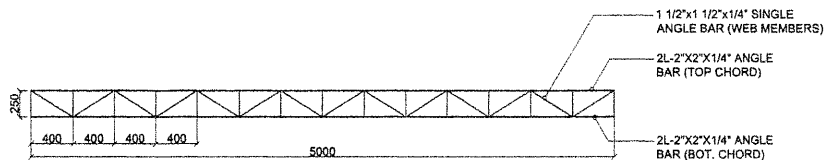
BEAM SCHEDULE (C28-Fy415) (LEVEL: 5.6 m)

BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS				SFR
	B	D	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	RIGHT	
B21	260	430	2-Ø18	2-Ø18	2-Ø18	2-Ø18	2-Ø18	2-Ø18	20-2L-Ø10@175 O.C.	18-2L-Ø10@175 O.C.	20-2L-Ø10@175 O.C.	-	-
B22	260	430	3-Ø18	3-Ø18	3-Ø18	3-Ø25	3-Ø18	3-Ø25	13-2L-Ø10@75 O.C.	21-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-	-
B23, B25	260	430	2-Ø18	3-Ø18	3-Ø18	3-Ø18	3-Ø25	3-Ø18	13-2L-Ø10@75 O.C.	21-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-	-
B24	260	430	3-Ø18	3-Ø18	3-Ø18	3-Ø25	3-Ø18	3-Ø25	13-2L-Ø10@75 O.C.	20-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-	-
B28	260	430	3-Ø18	3-Ø18	3-Ø18	3-Ø25	3-Ø18	3-Ø25	13-2L-Ø10@175 O.C.	18-2L-Ø10@175 O.C.	20-2L-Ø10@175 O.C.	-	-
B29	350	500	4-Ø18	4-Ø18	4-Ø18	4-Ø20	4-Ø18	4-Ø20	15-2L-Ø10@75 O.C.	15-2L-Ø10@150 O.C.	15-2L-Ø10@75 O.C.	-	-
B30	350	500	4-Ø18	4-Ø18	4-Ø18	4-Ø20	4-Ø18	4-Ø20	15-2L-Ø10@75 O.C.	15-2L-Ø10@150 O.C.	15-2L-Ø10@75 O.C.	-	-
B31	350	500	3-Ø18	3-Ø18	3-Ø18	4-Ø25	4-Ø18	4-Ø25	15-2L-Ø10@75 O.C.	12-2L-Ø12@175 O.C.	15-2L-Ø10@75 O.C.	-	-
B32	350	500	4-Ø20	4-Ø20	4-Ø20	4-Ø25	4-Ø18	4-Ø25	11-4L-Ø10@100 O.C.	48-4L-Ø10@100 O.C.	11-4L-Ø10@100 O.C.	-	-
B33	350	500	5-Ø18	3-Ø18	3-Ø18	4-Ø25	4-Ø18	4-Ø20	15-2L-Ø12@75 O.C.	13-2L-Ø12@75 O.C.	15-2L-Ø12@75 O.C.	-	-
B34	350	500	4-Ø18	4-Ø18	4-Ø18	4-Ø20	4-Ø18	4-Ø20	15-2L-Ø10@75 O.C.	13-2L-Ø10@175 O.C.	15-2L-Ø10@75 O.C.	-	-
B35	350	500	3-Ø18	3-Ø18	3-Ø18	4-Ø20	4-Ø18	4-Ø20	15-2L-Ø10@75 O.C.	13-2L-Ø10@175 O.C.	15-2L-Ø10@75 O.C.	-	-
B37, B48, B69	260	430	3-Ø18	2-Ø18	3-Ø18	3-Ø25	3-Ø18	3-Ø25	13-2L-Ø10@75 O.C.	21-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-	-
B38, B40	260	430	3-Ø18	2-Ø18	3-Ø18	3-Ø20	3-Ø18	3-Ø20	13-2L-Ø10@75 O.C.	20-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-	-
B44	260	430	3-Ø18	2-Ø18	2-Ø18	2-Ø18	2-Ø18	2-Ø18	13-2L-Ø10@75 O.C.	22-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-	-
B46	260	430	2-Ø18	2-Ø18	3-Ø18	3-Ø25	3-Ø18	3-Ø25	13-2L-Ø10@75 O.C.	20-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-	-
B47	260	430	3-Ø18	2-Ø18	3-Ø18	3-Ø25	3-Ø18	3-Ø25	13-2L-Ø10@75 O.C.	20-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-	-
B49, B73, B74	260	430	3-Ø18	3-Ø18	3-Ø18	3-Ø25	2-Ø18	3-Ø25	13-2L-Ø10@75 O.C.	21-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-	-
B51, B72	260	430	3-Ø18	3-Ø18	3-Ø18	3-Ø20	2-Ø18	3-Ø25	13-2L-Ø10@75 O.C.	21-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-	-
B52	260	430	2-Ø18	3-Ø18	3-Ø18	3-Ø25	2-Ø18	3-Ø25	13-2L-Ø10@75 O.C.	21-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-	-
B53	260	430	2-Ø18	3-Ø18	3-Ø18	3-Ø25	2-Ø18	3-Ø25	13-2L-Ø10@75 O.C.	21-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-	-
B54	260	430	2-Ø18	3-Ø18	3-Ø18	3-Ø25	2-Ø18	3-Ø25	13-2L-Ø10@75 O.C.	20-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-	-
B55	260	430	3-Ø18	3-Ø18	3-Ø18	3-Ø25	2-Ø18	3-Ø25	13-2L-Ø10@75 O.C.	20-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-	-
B58	260	430	3-Ø18	2-Ø18	3-Ø18	3-Ø25	2-Ø18	3-Ø25	13-2L-Ø10@75 O.C.	21-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-	-
B57, B62, B67	220	400	2-Ø20	2-Ø20	2-Ø20	2-Ø18	2-Ø18	2-Ø18	17-2L-Ø10@100 O.C.	15-2L-Ø10@100 O.C.	17-2L-Ø10@100 O.C.	-	-
B58	400	600	3-Ø20	3-Ø20	3-Ø20	4-Ø25	4-Ø18	4-Ø25	17-2L-Ø10@75 O.C.	12-2L-Ø10@150 O.C.	17-2L-Ø10@75 O.C.	-	-
B59	400	600	4-Ø20	4-Ø20	4-Ø20	4-Ø25	4-Ø18	4-Ø25	13-4L-Ø10@100 O.C.	16-4L-Ø10@100 O.C.	17-2L-Ø10@75 O.C.	3-#16EF	-
B60	400	600	4-Ø20	4-Ø20	4-Ø20	4-Ø20	4-Ø18	4-Ø25	17-2L-Ø10@75 O.C.	25-2L-Ø10@75 O.C.	17-2L-Ø10@75 O.C.	2-#16EF	-
B61	400	600	3-Ø20	3-Ø20	3-Ø20	4-Ø25	4-Ø18	4-Ø25	17-2L-Ø10@75 O.C.	13-2L-Ø10@150 O.C.	17-2L-Ø10@75 O.C.	-	-
B63	220	400	3-Ø18	3-Ø18	2-Ø18	2-Ø18	2-Ø18	2-Ø20	16-2L-Ø10@100 O.C.	14-2L-Ø10@100 O.C.	16-2L-Ø10@100 O.C.	-	-
B64	220	400	2-Ø18	2-Ø18	2-Ø18	2-Ø25	2-Ø18	2-Ø18	9-2L-Ø10@150 O.C.	7-2L-Ø10@150 O.C.	9-2L-Ø10@150 O.C.	-	-
B65	220	400	2-Ø18	2-Ø18	2-Ø18	2-Ø18	2-Ø18	2-Ø25	7-2L-Ø10@100 O.C.	5-2L-Ø10@100 O.C.	7-2L-Ø10@100 O.C.	-	-
B68	400	600	5-Ø18	5-Ø18	5-Ø18	4-Ø25	4-Ø18	4-Ø25	17-2L-Ø10@75 O.C.	12-2L-Ø10@150 O.C.	17-2L-Ø10@75 O.C.	-	-
B69	400	600	5-Ø18	5-Ø18	5-Ø18	4-Ø25	4-Ø18	4-Ø25	17-4L-Ø10@100 O.C.	19-4L-Ø10@100 O.C.	17-4L-Ø10@75 O.C.	-	-
B70	400	600	5-Ø18	5-Ø18	5-Ø18	4-Ø25	4-Ø18	4-Ø25	17-2L-Ø10@75 O.C.	19-2L-Ø10@100 O.C.	17-2L-Ø10@75 O.C.	2-#16EF	-
B71	400	600	4-Ø18	4-Ø18	4-Ø18	4-Ø25	4-Ø18	4-Ø25	17-2L-Ø10@75 O.C.	13-2L-Ø10@150 O.C.	17-2L-Ø10@75 O.C.	-	-
B75	260	430	3-Ø18	2-Ø18	3-Ø18	3-Ø25	2-Ø18	3-Ø25	13-2L-Ø10@75 O.C.	21-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-	-
B78, B80, B81, B82	260	430	2-Ø18	2-Ø18	3-Ø18	3-Ø25	2-Ø18	3-Ø25	13-2L-Ø10@75 O.C.	21-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-	-
B84	260	430	2-Ø18	2-Ø18	2-Ø18	3-Ø18	3-Ø18	3-Ø18	13-2L-Ø10@75 O.C.	23-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-	-

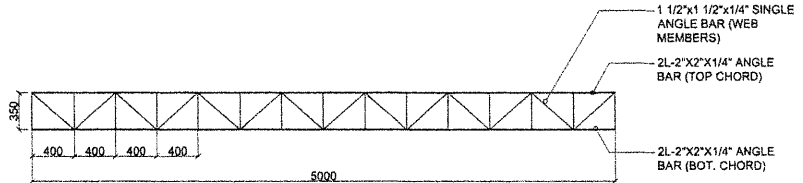
BEAM SCHEDULE
SCALE: NTS

BEAM SCHEDULE (C28-Fy415) (LEVEL: 9.2 m)

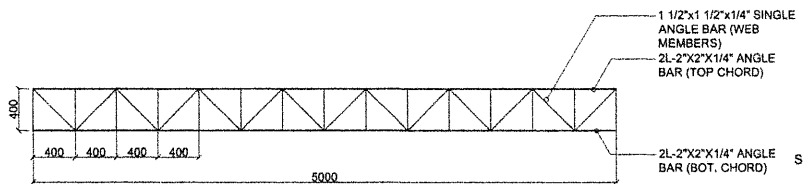
BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS				SFR
	B	D	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	RIGHT	
B1	260	430	2-Ø18	2-Ø18	3-Ø18	2-Ø20	2-Ø20	2-Ø25	11-2L-Ø10@75 O.C.	-	-	11-2L-Ø10@75 O.C.	-
B2, B4, B5, B6, B7, B8, B37, B38, B41, B73, B74, B75	260	430	3-Ø18	2-Ø18	3-Ø18	2-Ø25	2-Ø18	2-Ø25	13-2L-Ø10@75 O.C.	21-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-	-
B3, B9, B39, B44, B76	260	430	3-Ø18	2-Ø18	3-Ø18	2-Ø25	2-Ø18	2-Ø25	13-2L-Ø10@75 O.C.	21-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-	-
B10	260	430	3-Ø18	3-Ø18	2-Ø18	2-Ø25	2-Ø20	2-Ø20	11-2L-Ø10@75 O.C.	-	-	11-2L-Ø10@75 O.C.	-
B11	260	430	3-Ø18	2-Ø18	2-Ø18	2-Ø20	2-Ø20	2-Ø25	5-2L-Ø10@125 O.C.	3-2L-Ø10@125 O.C.	5-2L-Ø10@125 O.C.	-	-
B12	500	700	3-Ø20	5-Ø20	5-Ø20	5-Ø16	5-Ø25	5-Ø16	20-2L-Ø12@75 O.C.	65-2L-Ø12@100 O.C.	20-2L-Ø12@75 O.C.	3-#16EF	-
B13	500	700	6-Ø18	4-Ø18	4-Ø18	4-Ø18	5-Ø25	5-Ø20	20-4L-Ø10@75 O.C.	6-4L-Ø10@250 O.C.	20-4L-Ø10@75 O.C.	-	-
B14	500	700	4-Ø18	4-Ø18	4-Ø18	5-Ø20	5-Ø16	5-Ø20	20-2L-Ø10@75 O.C.	7-2L-Ø10@225 O.C.	20-2L-Ø10@75 O.C.	-	-
B15	500	700	4-Ø18	4-Ø18	4-Ø18	5-Ø20	5-Ø16	5-Ø20	20-2L-Ø10@75 O.C.	7-2L-Ø10@200 O.C.	20-2L-Ø10@75 O.C.	-	-
B16, B17, B30, B85	260	430	2-Ø18	3-Ø18	3-Ø18	3-Ø25	3-Ø16	3-Ø25	13-2L-Ø10@75 O.C.	21-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-	-
B18, B68, B68, B70, B72	260	430	3-Ø18	3-Ø18	3-Ø18	3-Ø25	3-Ø16	3-Ø25	13-2L-Ø10@75 O.C.	21-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-	-
B19	260	430	2-Ø18	2-Ø18	3-Ø18	3-Ø25	3-Ø16	3-Ø18	5-2L-Ø10@125 O.C.	3-2L-Ø10@125 O.C.	5-2L-Ø10@125 O.C.	-	-
B20	500	700	3-Ø20	5-Ø20	5-Ø20	5-Ø16	5-Ø25	5-Ø20	20-2L-Ø12@75 O.C.	64-2L-Ø12@100 O.C.	20-2L-Ø12@75 O.C.	-	-
B21	500	700	6-Ø18	4-Ø18	4-Ø18	5-Ø25	5-Ø16	5-Ø25	20-4L-Ø10@75 O.C.	6-4L-Ø10@250 O.C.	20-4L-Ø10@75 O.C.	-	-
B22	800	700	5-Ø20	5-Ø16	6-Ø20	5-Ø25	5-Ø16	5-Ø25	20-4L-Ø10@75 O.C.	51-4L-Ø10@125 O.C.	20-4L-Ø10@75 O.C.	3-#16EF	-
B23	260	430	3-Ø18	3-Ø18	3-Ø18	3-Ø20	2-Ø16	3-Ø20	13-2L-Ø10@75 O.C.	21-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-	-
B24	260	430	2-Ø18	3-Ø18	3-Ø18	3-Ø20	2-Ø16	3-Ø20	13-2L-Ø10@75 O.C.	17-2L-Ø10@150 O.C.	13-2L-Ø10@75 O.C.	-	-
B25	260	430	3-Ø18	3-Ø18	3-Ø18	3-Ø20	2-Ø16	3-Ø20	13-2L-Ø10@75 O.C.	21-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-	-
B26	500	700	4-Ø18	6-Ø18	6-Ø18	5-Ø25	5-Ø16	5-Ø25	20-4L-Ø10@75 O.C.	51-4L-Ø10@125 O.C.	20-4L-Ø10@75 O.C.	3-#16EF	-
B27	500	700	4-Ø18	6-Ø18	6-Ø18	5-Ø25	5-Ø16	5-Ø25	20-4L-Ø10@75 O.C.	51-4L-Ø10@125 O.C.	20-4L-Ø10@75 O.C.	3-#16EF	-
B28	500	700	4-Ø18	6-Ø18	6-Ø18	5-Ø25	5-Ø16	5-Ø25	20-4L-Ø10@75 O.C.	51-4L-Ø10@125 O.C.	20-4L-Ø10@75 O.C.	3-#16EF	-
B29	260	430	3-Ø18	3-Ø18	3-Ø18	3-Ø25	3-Ø16	3-Ø25	13-2L-Ø10@75 O.C.	20-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-	-
B31	260	430	3-Ø18	3-Ø18	3-Ø18	3-Ø25	3-Ø16	3-Ø25	13-2L-Ø10@75 O.C.	17-2L-Ø10@150 O.C.	13-2L-Ø10@75 O.C.	-	-
B32, B33, B34	500	700	4-Ø18	4-Ø18	4-Ø18	6-Ø18	6-Ø16	6-Ø18	20-2L-Ø10@75 O.C.	6-2L-Ø10@250 O.C.	20-2L-Ø10@75 O.C.	-	-
B35	500	700	4-Ø18	4-Ø18	4-Ø18	6-Ø18	6-Ø16	6-Ø18	20-2L-Ø10@75 O.C.	6-2L-Ø10@225 O.C.	20-2L-Ø10@75 O.C.	-	-
B36	500	700	5-Ø18	5-Ø18	5-Ø18	6-Ø18	6-Ø16	6-Ø18	20-2L-Ø10@75 O.C.	7-2L-Ø10@200 O.C.	20-2L-Ø10@75 O.C.	-	-
B40, B77	260	430	2-Ø18	2-Ø18	2-Ø18	3-Ø18	3-Ø16	3-Ø18	13-2L-Ø10@75 O.C.	22-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-	-
B42	260	430	2-Ø18	2-Ø18	3-Ø18	3-Ø25	2-Ø16	3-Ø25	13-2L-Ø10@75 O.C.	20-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-	-
B43	260	430	2-Ø18	2-Ø18	3-Ø18	3-Ø25	2-Ø16	3-Ø25	13-2L-Ø10@75 O.C.	20-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-	-
B45	260	430	2-Ø18	2-Ø18	2-Ø18	3-Ø25	2-Ø16	3-Ø25	13-2L-Ø10@125 O.C.	11-2L-Ø10@125 O.C.	13-2L-Ø10@125 O.C.	-	-
B46	260	430	2-Ø18	3-Ø18	2-Ø18	2-Ø25	2-Ø16	3-Ø20	13-2L-Ø10@125 O.C.	11-2L-Ø10@125 O.C.	14-2L-Ø10@125 O.C.	-	-
B47	260	430	2-Ø18	3-Ø18	2-Ø18	3-Ø20	2-Ø16	3-Ø20	13-2L-Ø10@125 O.C.	11-2L-Ø10@125 O.C.	14-2L-Ø10@125 O.C.	-	-
B48, B59	260	430	2-Ø18	3-Ø18	2-Ø18	2-Ø25	2-Ø16	3-Ø20	13-2L-Ø10@125 O.C.	11-2L-Ø10@125 O.C.	13-2L-Ø10@125 O.C.	-	-
B49, B55, B63	260	430	2-Ø18	3-Ø18	3-Ø18	3-Ø25	2-Ø16	3-Ø25	13-2L-Ø10@75 O.C.	21-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-	-
B50, B54, B62	260	430	3-Ø18	3-Ø18	3-Ø18	3-Ø25	2-Ø16	3-Ø25	13-2L-Ø10@75 O.C.	20-2L-Ø10@125 O.C.	13-2L-Ø10@75 O.C.	-	-
B51, B53	260	430	2-										



STRUT-03

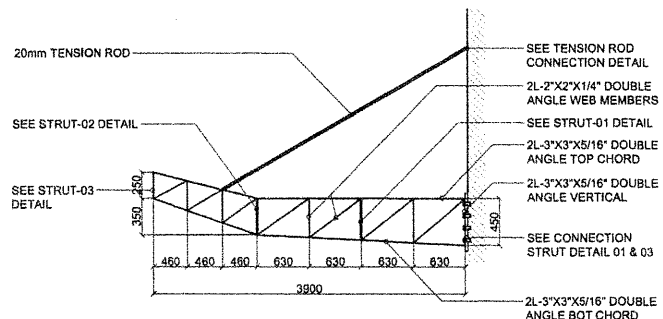


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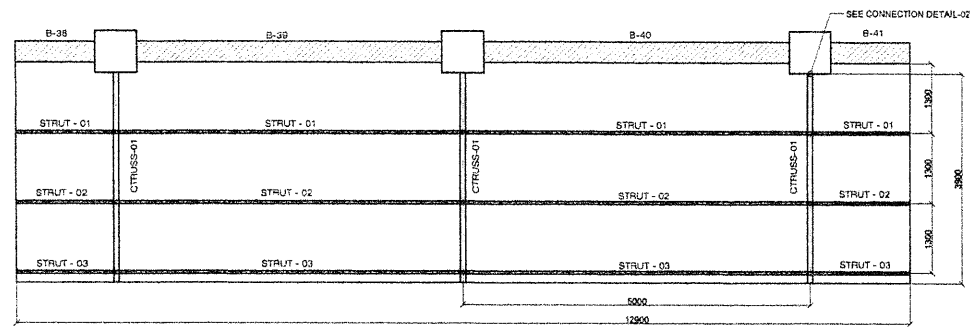


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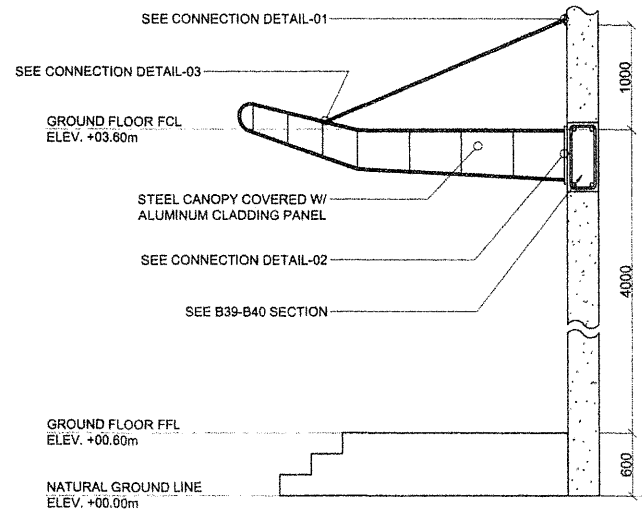
STRUT DETAIL
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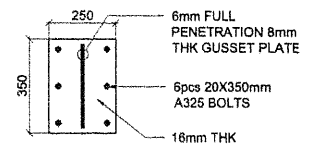
C-TRUSS DETAIL
SCALE: NTS



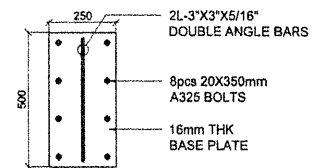
CANOPY PLAN
SCALE: NTS



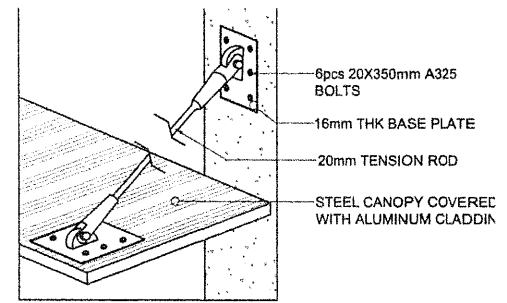
CANOPY ELEVATION / SECTION DETAIL
SCALE: NTS



CONNECTION DETAIL-01



CONNECTION DETAIL-02



CONNECTION DETAIL-03

CONNECTION DETAIL
SCALE: NTS



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DIRECTOR GENERAL

PROJECT TITLE:
PROPOSED TESDA
INNOVATION CENTER - MARIVELES
LOCATION: BANGAYAN-SANATA HARPEREE BATAAN

DESIGNED AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS ARE THE INTELLECTUAL PROPERTY AND SOLE POSSESSION OF TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY. THIS CONTRACT DOCUMENTS SHALL BE VALIDATED FOR ANY PERSON TO REPRODUCE OR TRANSMIT, COPY OR MAKE IN ANY MANNER OR FOR THE PROMOTION OF AND FOR OTHER PURPOSES OR BACKLASH, WITHOUT THE WRITTEN CONSENT OF TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY.

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ENGR. ROY LOUIS P. MINGARACAL
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SHEET CONTENTS:
STRUT DETAIL
C-TRUSS DETAIL
CANOPY ELEVATION / SECTION DETAIL
CONNECTION DETAIL
CANOPY PLAN

SHEET NO.
S-21

GENERAL NOTES AND SPECIFICATIONS

- ALL ELECTRICAL WORKS TO BE UNDERTAKEN HERE IN SHALL BE DONE IN ACCORDANCE WITH THE PROVISION OF THE LATEST APPROVED EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE LAWS, THE EXISTING ORDINANCES, RULES AND REGULATIONS OF CITY ENGINEER'S OFFICE, THE BUILDING ADMINISTRATION OFFICE AND INDUSTRIAL SAFETY AS WELL AS THE REQUIREMENTS OF THE UTILITY COMPANY.
- ALL MATERIALS AND REQUIREMENTS TO BE USED HEREIN SHALL BE NEW AND OF THE APPROVED TYPE FOR ITS LOCATION AND PURPOSE.
- NO OF BRANCH CIRCUIT WIRING IN LIGHTING AND POWER SHALL HAVE A LOAD MORE THAN 80% OF ITS RATING.
- LIGHT CONTROL SWITCHES SHALL BE RATED 16 AMPERES, 230 Vdc.
- UNLESS OTHERWISE SPECIFIED PULLBOXES OR JUNCTION BOXES SHALL BE PROVIDED WHENEVER REQUIRED AND NECESSARY, ALTHOUGH SUCH BOXES ARE NOT INDICATED ON PLANS.
- FOR EACH SPARE CIRCUIT IN PANELBOARD, PROVIDE AN EMPTY CONDUIT 20mm(3/4") DIA. TERMINATING TO A COVERED SQUARED BOX.
- ALL EQUIPMENT AND/NON CURRENT CARRYING METAL FRAME, SHALL BE PROVIDED WITH ADEQUATE AND EFFECTIVE GROUNDING SYSTEM.
- STANDARD TYPE OF ACCESSORIES, SPLICING DEVICES, TERMINATION AND OTHER APPURTENANCES SHALL BE USED FOR THE ENTIRE ELECTRICAL INSTALLATION.
- POWER SUPPLY SHALL BE 400 VOLTS, 3φ, 4 WIRE PLUS GROUND, 60 HERTZ.
- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY LICENSED AND REGISTERED ELECTRICAL ENGINEER OR MASTER ELECTRICIAN
- UNLESS OTHERWISE INDICATED, MOUNTING HEIGHTS SHALL BE AS FOLLOWS:
 - A. PANELBOARDS.....1.80m CENTER OF ENCLOSURE
 - B. CONVENIENCE OUTLET.....0.3m CENTER OF THE BOX
 - C. SWITCH OUTLET.....1.30m CENTER OF THE BOX
 - D. CATV OUTLET.....0.30m CENTER OF THE BOX
 - E. GFCI COUNTERTOP.....0.30m FROM TOP OF LAVATORY
 - F. COUNTERTOP OUTLET.....0.30m FROM TOP OF KITCHEN SINK
 - G. TEL/DATA OUTLET.....0.30m CENTER OF THE BOX
- THE JOB SHALL BE EXECUTED IN THE MOST THROUGH PROMPT AND WORKMAN LIKE MANNER, EMPLOYING STANDARD TOOLS, EQUIPMENT, METHODS AND GOOD ENGINEERING PRACTICES. THE JOB SHALL BE DONE COMPLETE IN ALL ASPECTS AS REQUIRED IN PLANS AND SPECIFICATIONS AND READY FOR OPERATION.
- ADDITIONAL MATERIALS SPECIFICATIONS:
 - A. CONDUIT....."PANASONIC", "MC GILL", "SMARTUBE" OR APPROVED EQUAL.
 - B. WIRES AND CABELS....."PHELPS DODGE", "PHILFLEX", "DURAFLEX OR APPROVED EQUAL
 - C. CIRCUIT BREAKER BOARD....."ABB", "GE", "SCHNEIDER ELECTRIC" BOLT-ON TYPE OR APPROVED EQUAL
 - D. WIRING DEVICES....."PANASONIC", "LEVITON", "SCHNEIDER ELECTRIC" OR APPROVED EQUAL
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE PROPER IDENTIFICATION AND LABELING OF ALL CIRCUIT BREAKER. EACH PANEL WILL BE APPROVED WITH A TYPEWRITTEN CIRCUIT DIRECTORY.
- WIRES SHALL BE COLOR CODED:
 - THREE PHASE
 - LINE 1.....RED
 - LINE 2.....YELLOW
 - LINE 3.....BLUE
 - NEUTRAL.....WHITE
 - GROUND.....GREEN
- NO REVISION IN DESIGN SHALL BE DONE WITHOUT THE PRIOR KNOWLEDGE AND APPROVAL OF THE DESIGNER AND THE OWNER. ANY SUCH REVISION DONE WITHOUT THE APPROVAL SHALL CAUSE RESPONSIBILITY OF THE DESIGNER TO CEASE A WHOLE.
- ALL WEATHER-EXPOSED INSTALLATIONS SHALL USE WEATHERPROOF TYPE MATERIALS, ESPECIALLY WEATHERPROOF CONVENIENCE OUTLET, CAST-BOXES, JUNCTION BOXES SUBMIT SAMPLE FOR APPROVAL.

ABBREVIATIONS

CO	CONVENIENCE OUTLET
MM	MILLIMETER
EF	EXHAUST FAN
FCU	FAN COIL UNIT
ACCU	AIR-COOLED CONDENSING UNIT
ECB	ENCLOSED CIRCUIT BREAKER
MCB	MINIATURE CIRCUIT BREAKER
TX	TRANSFORMER
ATS	AUTOMATIC TRANSFER SWITCH
A. AMP	AMPERE
AF	AMPERE FRAME
AT	AMPERE TRIP
IMC	INTERMEDIATE METALLIC CONDUIT
J	JUNCTION BOX
kAIC	KILOAMPERE INTERRUPTING CAPACITY
kVA	KILOVOLT-AMPERE
kWhr	KILOWATT-HOUR
kW	KILOWATT
kV	KILOVOLT
LA	LIGHTNING ARRESTER
LV	LOW VOLTAGE
3P	THREE POLE
UPVC	UNPLASTICIZED POLYVINYL CHLORIDE
V	VOLT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
C.L	CONNECTED LOAD
φ	DIAMETER
DIST	DISTRIBUTION
DF	DEMAND FACTOR
DL	DEMAND LOAD
DP	DOUBLE POLE
ENCL	ENCLOSURE, ENCLOSED
G, GND	GROUND
HZ	HERTZ
M	METER
MTD	MOUNTED
MTG	MOUNTING
MCB	MAIN CIRCUIT BREAKER
MCCB	MOLDED CASE CIRCUIT BREAKER
MSB	MAIN SWITCH BOARD
NO./ #	NUMBER
P	POLE
PH	PHASE
PVC	POLYVINYL CHLORIDE
IMC	INTERMEDIATE METALLIC CONDUIT
THWN	MOISTURE & HEAT RESISTANT THERMOPLASTIC
TYP	TYPICAL
TW	MOISTURE RESISTANT THERMOPLASTIC
LVSG	LOW VOLTAGE SWITCH GEAR
SP	SYNCHRONIZING PANEL
EE	ELECTRICAL EQUIPMENT
PP	POWER PANEL
LP	LIGHTNING PANEL
DP	DISTRIBUTION PANEL
DS	DISCONNECT SWITCH
RD	RISER DOWN
RU	RISER UP
PFC	POWER FACTOR CONTROLLER
PFI	POWER FACTOR INDICATOR
AHU	AIR HANDLING UNIT

LIGHTING LEGENDS AND SYMBOLS

○	RECESSED MOUNTED, 13W LED DOWNLIGHT
⌘	WALL MOUNTED, 13W LED DOWNLIGHT
—	SURFACE MOUNTED, 1200mm, 20W LED FLUORESCENT LIGHT
□	2x20W, 300mmx1200mm, CEILING RECESSED FLUORESCENT LIGHTING FIXTURE
⊕	WALL MOUNTED, ELEVATOR SHAFT LIGHTING FIXTURE
◆	SUSPENDED 200W HIGH BAY LUMINAIRE
EXIT	8W EXIT LIGHT WITH 2HRS BATTERY PACK
—	CONCEALED LIGHTING
E	INDICATION FOR LUMINAIRES WITH 2HRS BATTERY PACK
S	1 GANG, SINGLE POLESINGLE THROW SWITCH, 15A, 230V
2S	2 GANG, SINGLE POLESINGLE THROW SWITCH, 15A, 230V
3S	3 GANG, SINGLE POLESINGLE THROW SWITCH, 15A, 230V
•RU/RD	RISER UP/DOWN
⊙	JUNCTION BOX (CONCEALED LIGHTING PROVISION/TAPPING POINT)

AUXILIARY SYSTEMS LEGEND AND SYMBOL

⊕	DOME-TYPE, IP-BASED CCTV CAMERA
⊞	IP BASED CAMERA FIXED TYPE, WEATHER PROOF
X	VOICE/DATA OUTLET
⊞	FLOOR MOUNTED VOICE/DATA OUTLET
⊞	INPUT MODULE
⊞	GROUND BAR
⊙	SMOKE DETECTOR
⊙	HEAT DETECTOR
⊞	STROBE LIGHT WITH SOUNDER
⊞	MANUAL PULL STATION
⊞	FIREMAN'S TELEPHONE JACK
⊞	FIRE ALARM CONTROL PANEL
•RU/RD	RISER UP/DOWN

POWER LEGENDS AND SYMBOLS

⊕	DUPLEX CONVENIENCE OUTLET
⊞	FLOOR MOUNTED CONVENIENCE OUTLET
⊙	SIMPLEX CONVENIENCE OUTLET
⊕ HD	HAND DRYER PROVISION
○	SPECIAL PURPOSE OUTLET
⊙	JUNCTION BOX
⊞	DISCONNECT SWITCH
⊞	ENCLOSED CIRCUIT BREAKER
⊞	DISTRIBUTION PANEL
⊞	PANELBOARD
⊞	GROUND BAR
⊞	GROUND ROD WITH TESTING PIT
⊙	GROUND ROD
•RU/RD	RISER UP/DOWN
←⊕→	EARLY STREAMER EMISSION LIGHTNING PROTECTION



TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY

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PROJECT TITLE:

PROPOSED TESDA INNOVATION CENTER - MARIVELES

LOCATION: BRGY. GAMATA, MARIVELES, BATAAN

STANDARD AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CLIENT. THE DESIGNER'S RESPONSIBILITY IS LIMITED TO THE DESIGN AND DEVELOPMENT OF THE ELECTRICAL SYSTEMS AND TO THE PREPARATION OF THE ELECTRICAL DRAWINGS AND DOCUMENTS FOR THE CONSTRUCTION OF THE ELECTRICAL SYSTEMS. THE DESIGNER IS NOT RESPONSIBLE FOR THE CONSTRUCTION OF THE ELECTRICAL SYSTEMS OR FOR THE SAFETY OF THE PERSONNEL OR THE PUBLIC. THE DESIGNER IS NOT RESPONSIBLE FOR THE CONSTRUCTION OF THE ELECTRICAL SYSTEMS OR FOR THE SAFETY OF THE PERSONNEL OR THE PUBLIC.

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ELECTRICAL ENGINEER, SPV-002

SHEET CONTENTS:
GENERAL NOTES
LEGENDS AND SYMBOLS

SHEET NO.

E0-00

PANEL NAME: MDP-GF LOCATION: ELECTRICAL ROOM
 FED FROM: UTILITY COMPANY MOUNTING: WALL MOUNTED
 SYSTEM: 400VAC, 3Ø, 4W+G, 60Hz ENCLOSURE: NEMA 1

CKT NO.	DESCRIPTION	CONN. LOAD	DEMAND FACTOR	DEMAND LOAD	VOLT	AMP				CIRCUIT BREAKER				CABLE SIZE		CONDUIT		
						3Ø	AN	BN	CN	AT	AF	POLE	KAIC	TYPE	PHASE		GROUND	SIZE
1	PP-3F-MECH	22,213	0.76	54,764	230	89.9	5.2	19.3	18.7	100	100	3	18	MCCB	4 - 30mm ² THWN	1 - 8.0mm ² TW	32	IMC
2	PP-TELCO	5,888	1.00	5,888	230	0.0	1.0	21.7	7.8	100	100	3	18	MCCB	4 - 30mm ² THWN	1 - 8.0mm ² TW	32	IMC
3	PP-GF-CA	25,212	0.80	20,127	230	0.0	42.3	43.7	23.6	70	100	3	18	MCCB	4 - 22mm ² THWN	1 - 8.0mm ² TW	32	IMC
4	PP-3F-DORM	10,018	0.75	7,554	230	0.0	18.5	12.5		50	100	1	18	MCCB	4 - 14mm ² THWN	1 - 8.0mm ² TW	25	IMC
5	ISARE									50	100	3	18	MCCB				
6	ISARE									50	100	3	18	MCCB				
7	ISARE									50	100	3	18	MCCB				
8	ISARE									50	100	3	18	MCCB				
MAIN CIRCUIT BREAKER																		
TOTAL CONNECTED LOAD																		
DEMAND FACTOR:					0.78													
DEMAND LOAD:					88,908 VA													
TOTAL CURRENT:					127.47 AMPS													
					PHASE:	4 - 100mm ² THWN												
					GROUND:	1 - 22mm ² TW												
					CONDUIT:	75 mm Ø PVC CONDUIT												

PANEL NAME: PP-GF-CA LOCATION: ELECTRICAL ROOM
 FED FROM: MDP-GF MOUNTING: WALL MOUNTED
 SYSTEM: 400VAC, 3Ø, 4W+G, 60Hz ENCLOSURE: NEMA 1

CKT NO.	DESCRIPTION	CONN. LOAD	DEMAND FACTOR	DEMAND LOAD	VOLT	AMP				CIRCUIT BREAKER				CABLE SIZE		CONDUIT		
						3Ø	AN	BN	CN	AT	AF	POLE	KAIC	TYPE	PHASE		GROUND	SIZE
1	LIGHTING	1,507	0.90	1,356	230		6.55			20	100	1	10	MCB	2 - 3.5mm ² THWN	1 - 3.5mm ² TW	20	PVC
2	LIGHTING	1,328	0.90	1,195	230		5.77			20	100	1	10	MCB	2 - 3.5mm ² THWN	1 - 3.5mm ² TW	20	PVC
3	LIGHTING	2,780	0.90	2,502	230		5.57			50	100	1	10	MCB	2 - 3.5mm ² THWN	1 - 3.5mm ² TW	20	PVC
4	LIGHTING	2,491	0.90	2,242	230		10.83			20	100	1	10	MCB	2 - 3.5mm ² THWN	1 - 3.5mm ² TW	20	PVC
5	FAÇADE LIGHTING	286	0.90	257	230		1.24	20	100	1	10	MCB	2 - 3.5mm ² THWN	1 - 3.5mm ² TW	20	PVC		
6	CONVENIENCE OUTLET	1,620	0.70	1,134	230		7.04			20	100	1	10	MCB	2 - 3.5mm ² THWN	1 - 3.5mm ² TW	20	PVC
7	CONVENIENCE OUTLET	1,080	0.70	756	230		4.70			20	100	1	10	MCB	2 - 3.5mm ² THWN	1 - 3.5mm ² TW	20	PVC
8	CONVENIENCE OUTLET	1,440	0.70	1,008	230		6.26			20	100	1	10	MCB	2 - 3.5mm ² THWN	1 - 3.5mm ² TW	20	PVC
9	CONVENIENCE OUTLET	1,440	0.70	1,008	230		6.26			20	100	1	10	MCB	2 - 3.5mm ² THWN	1 - 3.5mm ² TW	20	PVC
10	CONVENIENCE OUTLET	1,080	0.70	756	230		4.70			20	100	1	10	MCB	2 - 3.5mm ² THWN	1 - 3.5mm ² TW	20	PVC
11	CONVENIENCE OUTLET	1,620	0.70	1,134	230		7.04			20	100	1	10	MCB	2 - 3.5mm ² THWN	1 - 3.5mm ² TW	20	PVC
12	CONVENIENCE OUTLET	900	0.70	630	230		3.91			20	100	1	10	MCB	2 - 3.5mm ² THWN	1 - 3.5mm ² TW	20	PVC
13	CONVENIENCE OUTLET	1,440	0.70	1,008	230		6.26			20	100	1	10	MCB	2 - 3.5mm ² THWN	1 - 3.5mm ² TW	20	PVC
14	CONVENIENCE OUTLET	1,440	0.70	1,008	230		6.26			20	100	1	10	MCB	2 - 3.5mm ² THWN	1 - 3.5mm ² TW	20	PVC
15	CONVENIENCE OUTLET	1,260	0.70	882	230		5.46			20	100	1	10	MCB	2 - 3.5mm ² THWN	1 - 3.5mm ² TW	20	PVC
16	HAND DRYER	500	0.80	400	230		7.17			20	100	1	10	MCB	2 - 3.5mm ² THWN	1 - 3.5mm ² TW	20	PVC
17	HAND DRYER	500	0.80	400	230		2.17			20	100	1	10	MCB	2 - 3.5mm ² THWN	1 - 3.5mm ² TW	20	PVC
18	HAND DRYER	500	0.80	400	230		2.17			20	100	1	10	MCB	2 - 3.5mm ² THWN	1 - 3.5mm ² TW	20	PVC
19	HAND DRYER	500	0.80	400	230		2.17			20	100	1	10	MCB	2 - 3.5mm ² THWN	1 - 3.5mm ² TW	20	PVC
20	FACP PROVISION	1,000	1.00	1,000	230		4.35			20	100	1	10	MCB	2 - 3.5mm ² THWN	1 - 3.5mm ² TW	20	PVC
21	MVP PROVISION	1,000	1.00	1,000	230		4.35			20	100	1	10	MCB	2 - 3.5mm ² THWN	1 - 3.5mm ² TW	20	PVC
22	ISF PROVISION	1,000	1.00	1,000	230		4.35			20	100	1	10	MCB	2 - 3.5mm ² THWN	1 - 3.5mm ² TW	20	PVC
23	SPARE									20	100	1	10	MCCB				
24	SPARE									20	100	1	10	MCCB				
25	SPARE									20	100	1	10	MCCB				
26	SPARE									20	100	1	10	MCCB				
MAIN CIRCUIT BREAKER																		
TOTAL CONNECTED LOAD																		
DEMAND FACTOR:					0.80													
DEMAND LOAD:					20,127 VA													
TOTAL CURRENT:					29.05 AMPS													
					PHASE:	4 - 22mm ² THWN												
					GROUND:	1 - 8.0mm ² TW												
					CONDUIT:	32 mm Ø IMC CONDUIT												

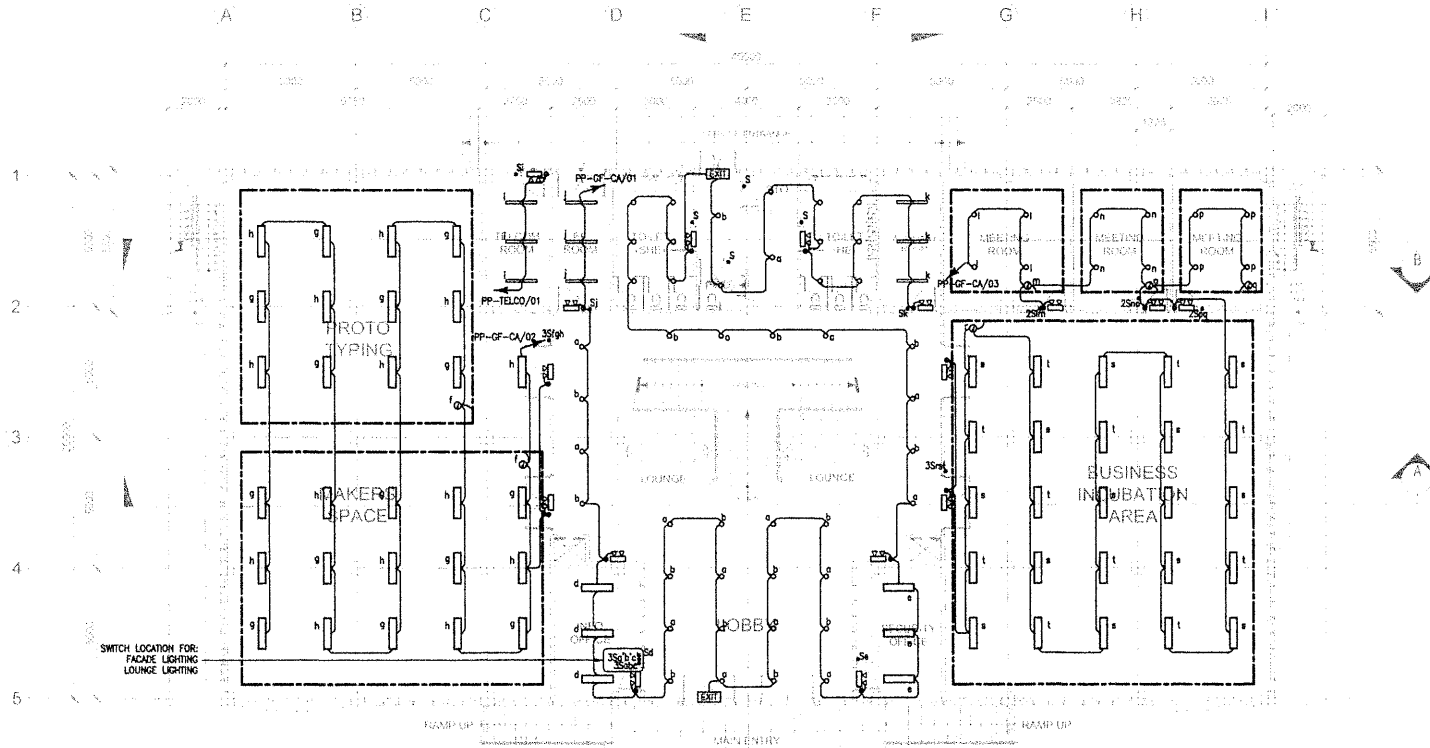
PANEL NAME: PP-3F-LIFT LOCATION: FRUITS & VEGETABLES
 FED FROM: MDP-GF MOUNTING: WALL MOUNTED
 SYSTEM: 400VAC, 3Ø, 4W+G, 60Hz ENCLOSURE: NEMA 1

CKT NO.	DESCRIPTION	CONN. LOAD	DEMAND FACTOR	DEMAND LOAD	VOLT	AMP				CIRCUIT BREAKER				CABLE SIZE		CONDUIT		
						3Ø	AN	BN	CN	AT	AF	POLE	KAIC	TYPE	PHASE		GROUND	SIZE
1	PE-01	2.00	1.00	2.00	230					40	100	3	18	MCCB	4 - 5.5mm ² THWN	1 - 5.5mm ² TW	25	PVC
2	PE-01 CONTROLLER	10,000	1.00	10,000	230	14				40	100	3	18	MCCB	4 - 5.5mm ² THWN	1 - 5.5mm ² TW	25	PVC
3	LIGHTING	2.00	1.00	2.00	230					40	100	1	10	MCCB	2 - 3.5mm ² THWN	1 - 3.5mm ² TW	20	PVC
4	SPARE	1.00	1.00	1.00	230					20	100	1	10	MCCB	2 - 3.5mm ² THWN	1 - 3.5mm ² TW	20	PVC
5	PE-02	2.00	1.00	2.00	230					40	100	3	18	MCCB	4 - 5.5mm ² THWN	1 - 5.5mm ² TW	25	PVC
6	PE-02 CONTROLLER	10,000	1.00	10,000	230	14				40	100	3	18	MCCB	4 - 5.5mm ² THWN	1 - 5.5mm ² TW	25	PVC
7	LIGHTING	1.00	1.00	1.00	230					20	100	1	10	MCCB	2 - 3.5mm ² THWN	1 - 3.5mm ² TW	20	PVC
8	SPARE									20	100	1	10	MCCB				
9	SPARE									20	100	1	10	MCCB				
10	SPARE									20	100	1	10	MCCB				
MAIN CIRCUIT BREAKER																		
TOTAL CONNECTED LOAD																		
DEMAND FACTOR:					1.00													
DEMAND LOAD:					20008 VA													
TOTAL CURRENT:					18.87 AMPS													
					PHASE:	4 - 22mm ² THWN												
					GROUND:	1 - 8.0mm ² TW												
					CONDUIT:	32 mm Ø IMC CONDUIT												

PANEL NAME: PP-3F-MECH LOCATION: MEAT & FISH
 FED FROM: MDP-GF MOUNTING: WALL MOUNTED
 SYSTEM: 400VAC, 3Ø, 4W+G, 60Hz ENCLOSURE: NEMA 1

CKT NO.	DESCRIPTION	CONN. LOAD	DEMAND FACTOR	DEMAND LOAD	VOLT	AMP				CIRCUIT BREAKER				CABLE SIZE		CONDUIT		
						3Ø	AN	BN	CN	AT	AF	POLE	KAIC	TYPE	PHASE		GROUND	SIZE
1	PP-3F-LIFT	20,000	1.00	20,000	230	29				70	100	3	18	MCCB	4 - 22mm ² THWN	1 - 8.0mm ² TW	32	IMC
2	SPARE									70	100	3	18	MCCB	4 - 22mm ² THWN	1 - 8.0mm ² TW	32	IMC
3	ACCU-01	7,044	0.70	4,931	230	10				30	100	1	10	MCCB	4 - 5.5mm ² THWN	1 - 5.5mm ² TW	25	IMC
4	ACCU-01	7,044	0.70	4,931	230	10				30	100	1	10	MCCB	4 - 5.5mm ² THWN	1 - 5.5mm ² TW	25	IMC
5	ACCU-01	7,044	0.70	4,931	230	10				30	100	1	10	MCCB	4 - 5.5mm ² THWN	1 - 5.5mm ² TW	25	IMC
6	ACCU-01	7,044	0.70	4,931	230	10				30	100	1	10	MCCB	4 - 5.5mm ² THWN	1 - 5.5mm ² TW	25	IMC
7	ACCU-01	7,044	0.70	4,931	230	10				30	100	1	10	MCCB	4 - 5.5mm ² THWN	1 - 5.5mm ² TW	25	IMC
8	ACCU-01	7,044	0.70	4,931	230	10				30	100	1	10	MCCB	4 - 5.5mm ² THWN	1 - 5.5mm ² TW	25	IMC
9	ACCU-02	1,550	0.70	1,085	230					20	100	1	10	MCCB	2 - 3.5mm ² THWN	1 - 3.5mm ² TW	20	IMC
10	ACCU-02	1,550	0.70	1,085	230					20	100	1	10	MCCB	2 - 3.5mm ² THWN	1 - 3.5mm ² TW	20	IMC
11	ACCU-02	1,550	0.70	1,085	230					20	100	1	10	MCCB	2 - 3.5mm ² THWN	1 - 3.5mm ² TW	20	IMC
12	ACCU-02	1,550	0.70	1,085	230					20	100	1	10	MCCB	2 - 3.5mm ² THWN	1 - 3.5mm ² TW	20	IMC
13	FCU PROVISION	600	0.70	420	230				2.61	20	100	1	10	MCCB	2 - 3.5mm ² THWN	1 - 3.5mm ² TW	20	PVC

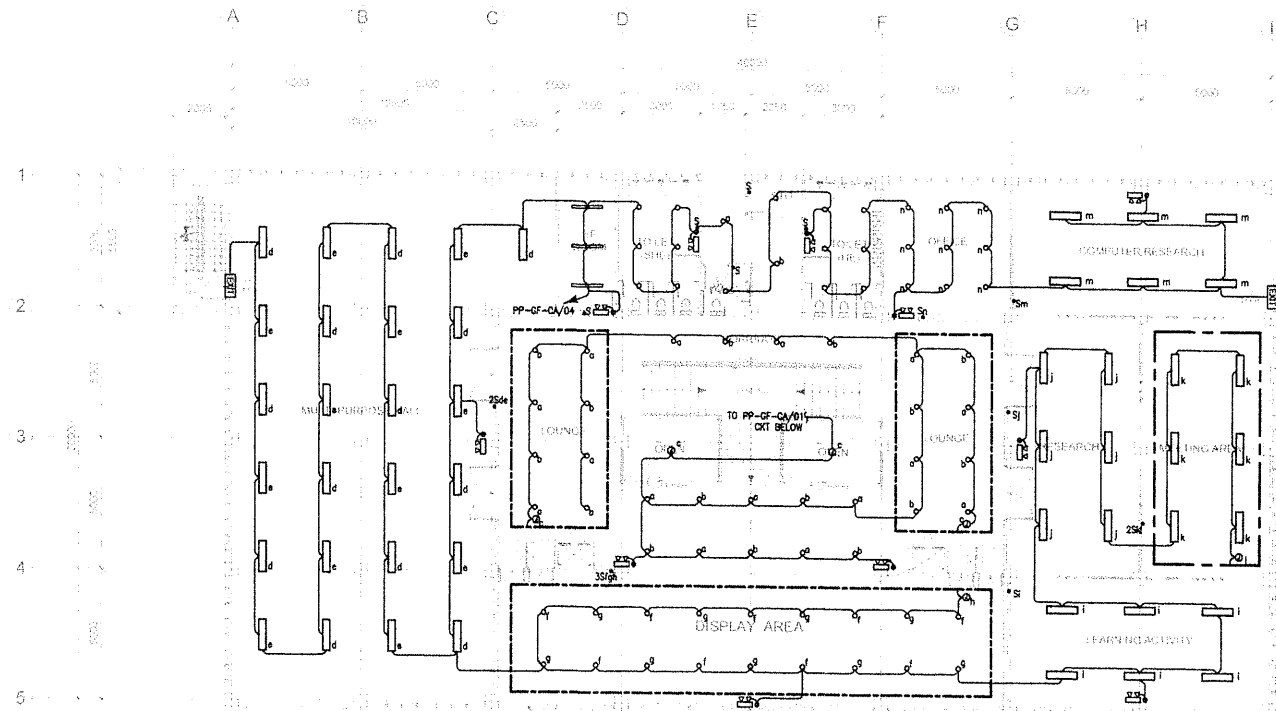
LEGENDS AND SYMBOLS	
○	RECESSED MOUNTED, 13W LED DOWNLIGHT
●	SURFACE MOUNTED, 13W LED DOWNLIGHT
□	WALL MOUNTED, 13W LED DOWNLIGHT
— —	SURFACE MOUNTED, 1200mm, 20W WEATHERPROOF LED FLUORESCENT LIGHT
— —	SURFACE MOUNTED, 1200mm, 20W LED FLUORESCENT LIGHT
— —	2x20w, 300mmx1200mm, CEILING RECESSED FLUORESCENT LIGHTING FIXTURE
— —	2x20w, 300mmx1200mm, DUST TIGHT FLUORESCENT LIGHTING FIXTURE
Ⓜ	9W EXIT LIGHT WITH 2HRS BATTERY PACK
Ⓜ	TWIN-HEAD EMERGENCY LIGHTING WITH 2HRS BATTERY PACK
S	1 GANG, SINGLE POLE SINGLE THROW SWITCH, 15A, 230V
2S	2 GANG, SINGLE POLE SINGLE THROW SWITCH, 15A, 230V
3S	3 GANG, SINGLE POLE SINGLE THROW SWITCH, 15A, 230V
•RU/RD	RISE UP/DOWN
Ⓞ	JUNCTION BOX (CONCEALED LIGHTING PROVISION/TAPPING POINT)




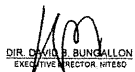

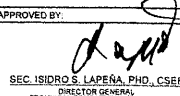
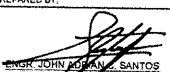
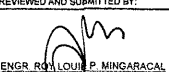
TESDA INNOVATION CENTER - MARIVELES
GROUND FLOOR LIGHTING LAYOUT
 SCALE: 1:200 mm

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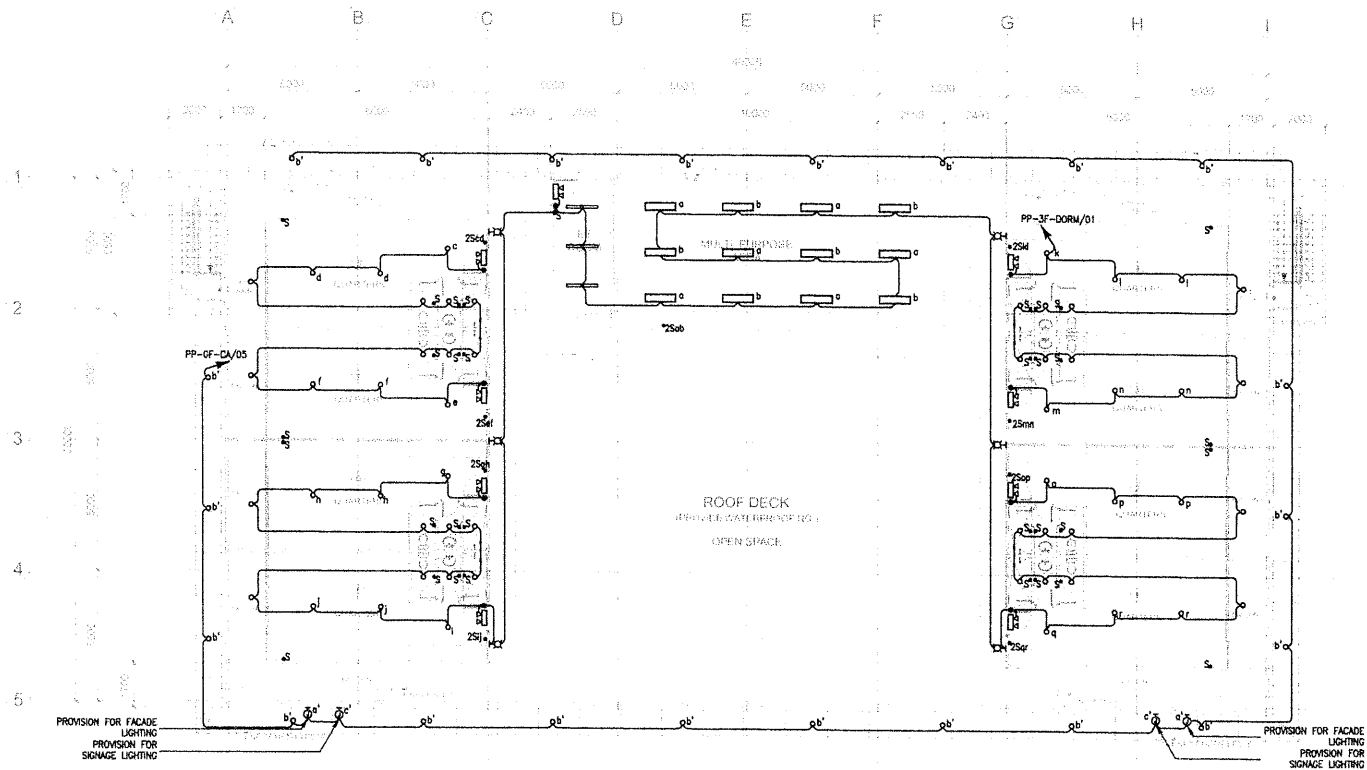
LEGENDS AND SYMBOLS	
○	RECESSED MOUNTED, 13W LED DOWNLIGHT
●	SURFACE MOUNTED, 13W LED DOWNLIGHT
□	WALL MOUNTED, 13W LED DOWNLIGHT
— —	SURFACE MOUNTED, 1200mm, 20W WEATHERPROOF LED FLUORESCENT LIGHT
— —	SURFACE MOUNTED, 1200mm, 20W LED FLUORESCENT LIGHT
— —	2x20W, 300mmx1200mm, CEILING RECESSED FLUORESCENT LIGHTING FIXTURE
— —	2x20W, 300mmx1200mm, DUST TIGHT FLUORESCENT LIGHTING FIXTURE
EXIT	EXIT LIGHT WITH 2HRS BATTERY PACK
— —	TWIN-HEAD EMERGENCY LIGHTING WITH 2HRS BATTERY PACK
1S	1 GANG, SINGLE POLE SINGLE THROW SWITCH, 15A, 230V
2S	2 GANG, SINGLE POLE SINGLE THROW SWITCH, 15A, 230V
3S	3 GANG, SINGLE POLE SINGLE THROW SWITCH, 15A, 230V
●RU/RD	RISER UP/DOWN
○	JUNCTION BOX (CONCEALED LIGHTING PROVISION/TAPPING POINT)



TESDA INNOVATION CENTER - MARIVELES
SECOND FLOOR LIGHTING LAYOUT
 SCALE: 1: 200 mm

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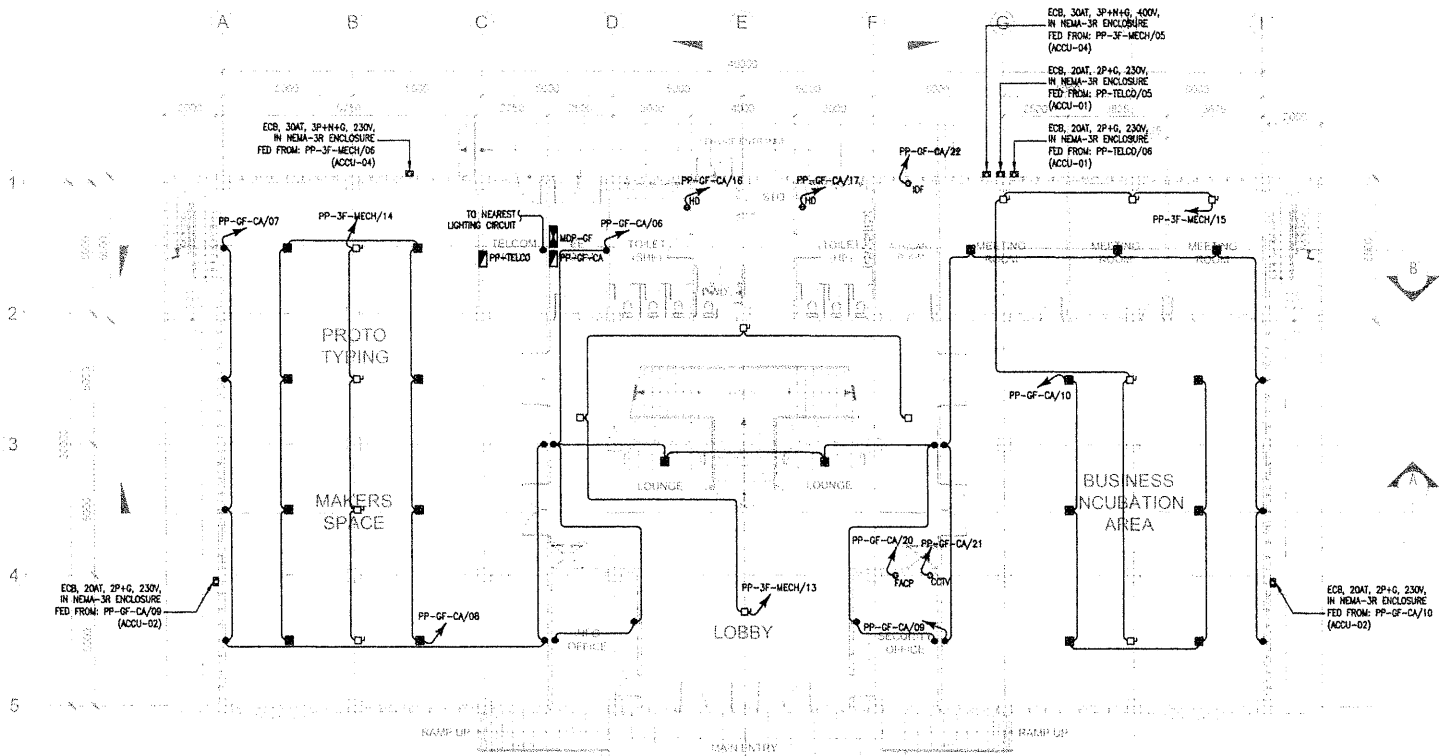
LEGENDS AND SYMBOLS	
○	RECESSED MOUNTED, 13W LED DOWNLIGHT
●	SURFACE MOUNTED, 13W LED DOWNLIGHT
□	WALL MOUNTED, 13W LED DOWNLIGHT
— —	SURFACE MOUNTED, 1200mm, 20W WEATHERPROOF LED FLUORESCENT LIGHT
— —	SURFACE MOUNTED, 1200mm, 20W LED FLUORESCENT LIGHT
— —	2x20W, 300mmx1200mm, CEILING RECESSED FLUORESCENT LIGHTING FIXTURE
— —	2x20W, 300mmx1200mm, DUST TIGHT FLUORESCENT LIGHTING FIXTURE
Ⓜ	8W EXIT LIGHT WITH 2HRS BATTERY PACK
Ⓜ	TWIN-HEAD EMERGENCY LIGHTING WITH 2HRS BATTERY PACK
Ⓜ	1 GANG, SINGLE POLE SINGLE THROW SWITCH, 15A, 230V
Ⓜ	2 GANG, SINGLE POLE SINGLE THROW SWITCH, 15A, 230V
Ⓜ	3 GANG, SINGLE POLE SINGLE THROW SWITCH, 15A, 230V
Ⓜ	RISER UP/DOWN
Ⓜ	JUNCTION BOX (CONCEALED LIGHTING PROVISION/TAPPING POINT)



TESDA INNOVATION CENTER - MARIVELES
THIRD FLOOR LIGHTING LAYOUT
 SCALE: 1:200 mm

	CONCURRED BY: DIR. DANILLO B. BUNGALLON EXECUTIVE DIRECTOR NITEDO	RECOMMENDING APPROVAL: DIR. JULIAN P. PROZCO DIRECTOR PAS DIRECTOR IN CHARGE, SPU	APPROVED BY: SEC. ISIDRO S. LAPENA, PhD, CSEE DIRECTOR GENERAL TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY	PROJECT TITLE: PROPOSED TESDA INNOVATION CENTER - MARIVELES LOCATION: BRGY. CAYAYA, MARIVELES, SAKAY	EXAMINE AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS ARE THE SOLE PROPERTY OF THE TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY. NO PART OF THIS DOCUMENT SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE DIRECTOR GENERAL, TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY.	PREPARED BY: ENGR. ROLANDO M. SANTOS ELECTRICAL ENGINEER, SPO/DOO	REVIEWED AND SUBMITTED BY: ENGR. ROLANDO M. MINSARACAL HEAD, SPO/DOO	SHEET CONTENTS: THIRD FLOOR LIGHTING LAYOUT	SHEET NO. E1-03
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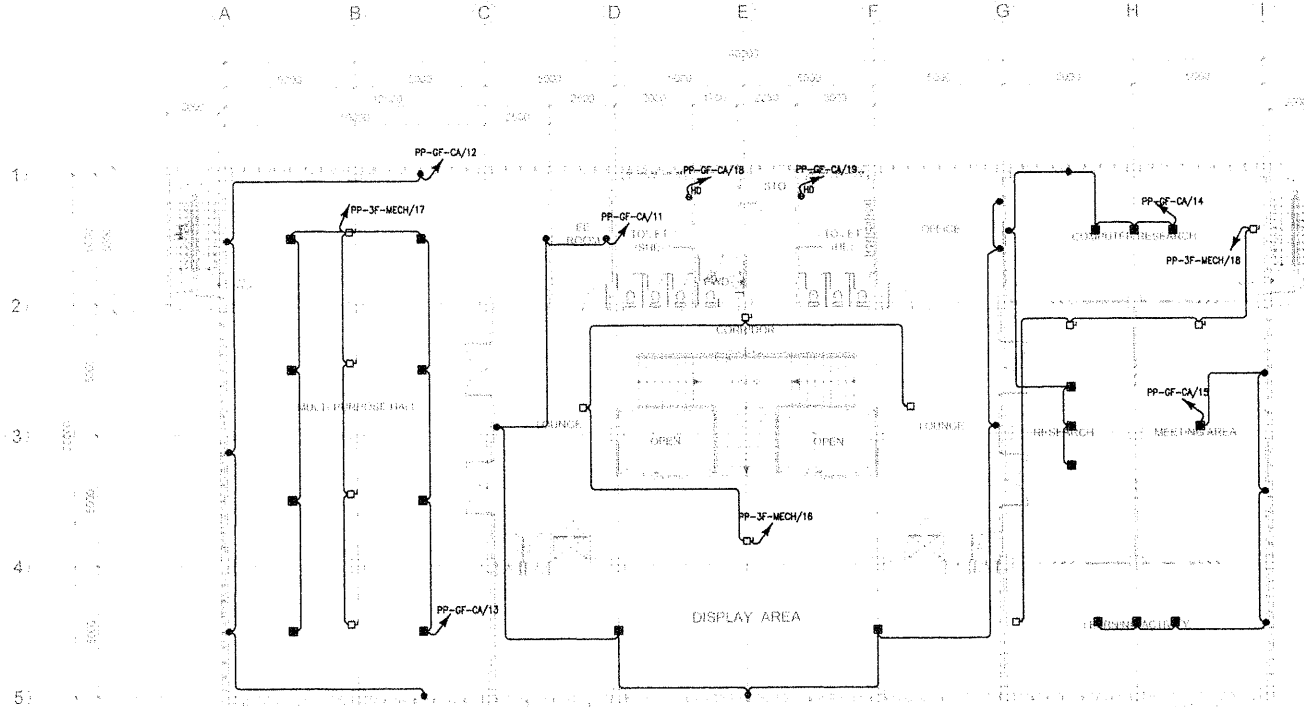
LEGENDS AND SYMBOLS	
⊙	DUPLEX CONVENIENCE OUTLET
⊞	FLOOR MOUNTED CONVENIENCE OUTLET
⊕	SIMPLEX CONVENIENCE OUTLET
⊙ HD	HAND DRYER PROVISION
⊙	SPECIAL PURPOSE OUTLET
⊙	JUNCTION BOX
⊞	DISCONNECT SWITCH
⊞	ENCLOSED CIRCUIT BREAKER
⊞	DISTRIBUTION PANEL
⊞	PANELBOARD
⊞	GROUND BAR
⊞	GROUND ROD WITH TESTING PIT
⊞	GROUND ROD
⊞ RU/RD	RISER UP/DOWN
⊞	EARLY STREAMER EMISSION LIGHTNING PROTECTION



TESDA INNOVATION CENTER - MARIVELES
GROUND FLOOR POWER LAYOUT
 SCALE: 1:200 mm


 TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY	CONCURRED BY: DIR. JAMES B. BUNBALLON <small>EXECUTIVE DIRECTOR, NTESD</small>	RECOMMENDING APPROVAL: DIR. JULIUS S. OROZCO <small>CHIEF OF STAFF, CDS DIRECTOR-IN-CHARGE, SPU</small>	APPROVED BY: SEC. ISIDRO S. LAPENA, PH.D., CSEE <small>DIRECTOR GENERAL TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</small>	PROJECT TITLE: <p style="text-align: center;">PROPOSED TESDA INNOVATION CENTER - MARIVELES</p> <small>LOCATOR: BRGY. OMAÑA, MARIVELES, BATAVI</small>	<small>DRAWING AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS ARE THE PROPERTY OF THE TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY. ANY REPRODUCTION OR TRANSMISSION OF THESE DOCUMENTS OR ANY PART THEREOF TO ANY OTHER PARTY WITHOUT THE WRITTEN PERMISSION OF THE TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY IS STRICTLY PROHIBITED.</small>	PREPARED BY: ENGR. LOUIE FRANK C. SANTOS <small>ELECTRICAL ENGINEER, SPU-CDS</small>	REVIEWED AND SUBMITTED BY: ENGR. ROY LOUIE M. MINGARACAL <small>EEAS, SPU-CDS</small>	SHEET CONTENTS: GROUND FLOOR POWER LAYOUT	SHEET NO. E2-01
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LEGENDS AND SYMBOLS	
⊙	DUPLEX CONVENIENCE OUTLET
⊞	FLOOR MOUNTED CONVENIENCE OUTLET
⊙	SIMPLEX CONVENIENCE OUTLET
⊙ HD	HAND DRYER PROVISION
⊙	SPECIAL PURPOSE OUTLET
⊙	JUNCTION BOX
⊞	DISCONNECT SWITCH
⊞	ENCLOSED CIRCUIT BREAKER
⊞	DISTRIBUTION PANEL
⊞	PANELBOARD
⊞	GROUND BAR
⊞	GROUND ROD WITH TESTING PIT
⊞	GROUND ROD
RU/RD	RISER UP/DOWN
←→	EARLY STREAMER EMISSION LIGHTNING PROTECTION

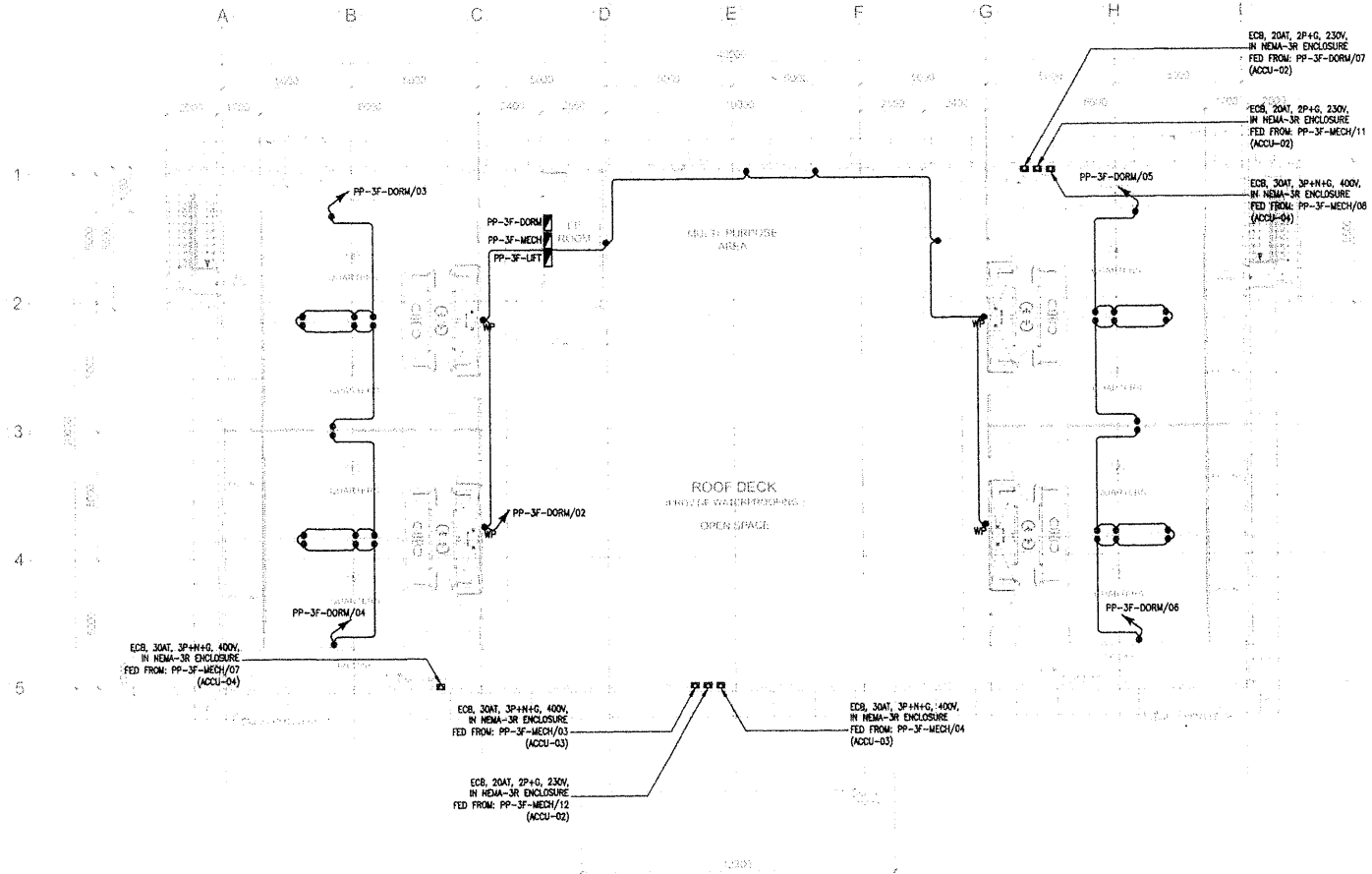


TESDA INNOVATION CENTER - MARIVELES
SECOND FLOOR POWER LAYOUT

SCALE: 1:200 mm

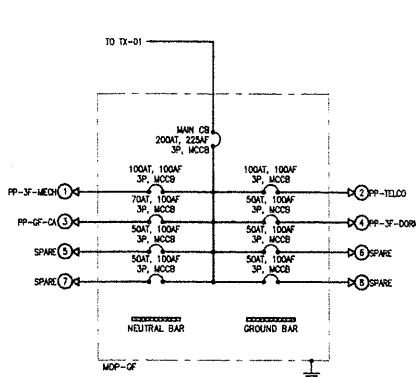
 <p>TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</p>	<p>CONCURRED BY:</p> <p><i>[Signature]</i> DIR. DAVID B. BUNGALLON EXECUTIVE DIRECTOR, NITESO</p>	<p>RECOMMENDING APPROVAL:</p> <p><i>[Signature]</i> DIR. JUANITO D. OROZCO DIRECTOR IN CHARGE DIRECTOR GENERAL, SPU</p>	<p>APPROVED BY:</p> <p><i>[Signature]</i> SEC. ISIDRO L. LAPERA, PH.D., CSEE DIRECTOR GENERAL TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</p>	<p>PROJECT TITLE:</p> <p>PROPOSED TESDA INNOVATION CENTER - MARIVELES</p> <p>LOCATION: BRGY. CAMAYA, MARIVELES BATHYAN</p>	<p>DRAWING AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS ARE THE PROPERTY OF THE TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY. ANY REPRODUCTION OR TRANSMISSION OF THESE DOCUMENTS WITHOUT THE WRITTEN PERMISSION OF THE AUTHORITY IS STRICTLY PROHIBITED. ANY OCCUPANTS FOR USE IN THE REVISION OF AND FOR OTHER PROJECTS OR REVISIONS, WITHOUT THE WRITTEN CONSENT OF TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY.</p>	<p>PREPARED BY:</p> <p><i>[Signature]</i> ENGR. JOHN ARMANDO SANTOS ELECTRICAL ENGINEER, SPU-000</p>	<p>REVIEWED AND SUBMITTED BY:</p> <p><i>[Signature]</i> ENGR. ROY LOUIS P. MINGARACAL LEAD, SPU-000</p>	<p>SHEET CONTENTS:</p> <p>SECOND FLOOR POWER LAYOUT</p>	<p>SHEET NO.:</p> <p>E2-02</p>
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LEGENDS AND SYMBOLS	
⊕	DUPLEX CONVENIENCE OUTLET
⊕	FLOOR MOUNTED CONVENIENCE OUTLET
⊕	SIMPLEX CONVENIENCE OUTLET
⊕ HD	HAND DRYER PROVISION
⊕	SPECIAL PURPOSE OUTLET
⊕	JUNCTION BOX
⊕	DISCONNECT SWITCH
⊕	ENCLOSED CIRCUIT BREAKER
⊕	DISTRIBUTION PANEL
⊕	PANELBOARD
⊕	GROUND BAR
⊕	GROUND ROD WITH TESTING PIT
⊕	GROUND ROD
RU/RD	RISER UP/DOWN
↔	EARLY STREAMER EMISSION LIGHTNING PROTECTION

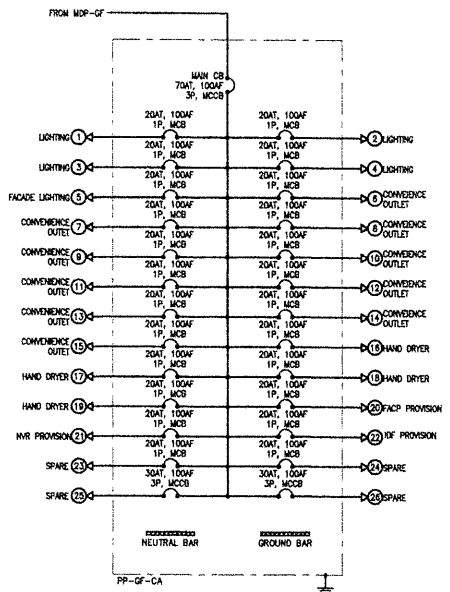


TESDA INNOVATION CENTER - MARIVELES
THIRD FLOOR POWER LAYOUT
 SCALE: 1:200 mm

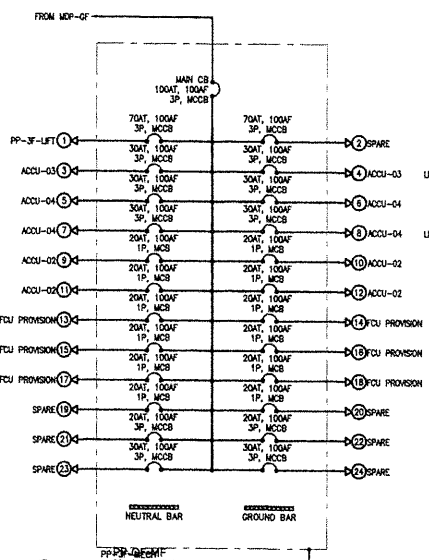
	CONCURRED BY: DIR. DAVID B. BUNGALLON EXECUTIVE DIRECTOR NITEDS	RECOMMENDING APPROVAL: DIR. JULIET O. BROZCO CHIEF OF STAFF-CDS DIRECTOR-IN-CHARGE-SPI	APPROVED BY: SEC. ISIDRO LAPERA, PH.D., CSSEE DIRECTOR GENERAL TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY	PROJECT TITLE: PROPOSED TESDA INNOVATION CENTER - MARIVELES LOCATION: BPOF GAMAY, MARIVELES BAYAN	STANDARDS AND SPECIFICATIONS AND OTHER TECHNICAL DOCUMENTS ARE THE INTENTIONAL PROPERTY OF THE EDUCATION AND SKILLS DEVELOPMENT AUTHORITY. UNLESS THE EDUCATION AND SKILLS DEVELOPMENT AUTHORITY HAS BEEN ADVISED OR NOTIFIED IN WRITING, NO PART OF THIS DOCUMENT IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF THE EDUCATION AND SKILLS DEVELOPMENT AUTHORITY.	PREPARED BY: ENGR. JOHN ADRIAN O. SANTOS ELECTRICAL ENGINEER, RPU-000	REVIEWED AND SUBMITTED BY: ENGR. ROY LUJER MINGARACAL HEAD RPU-000	SHEET CONTENTS: THIRD FLOOR POWER LAYOUT	SHEET NO. E2-03
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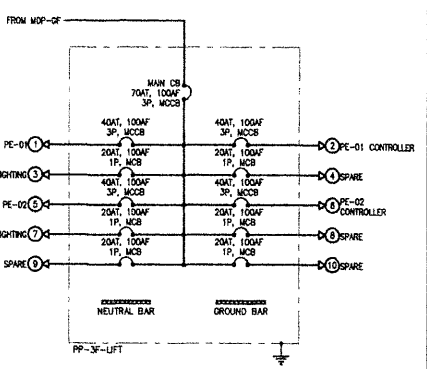
MDP-GFA
PANELBOARD DIAGRAM
SCALE: NTS



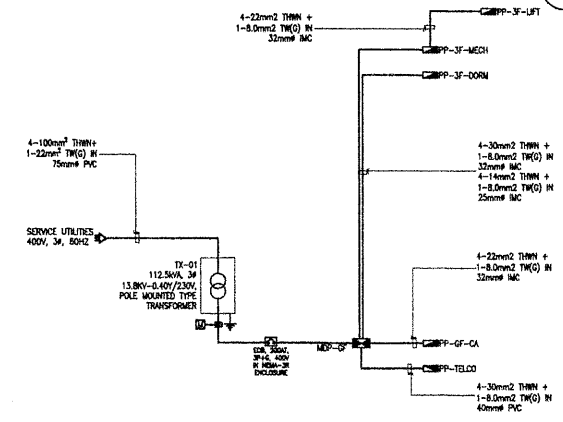
PP-GF-CA
PANELBOARD DIAGRAM
SCALE: NTS



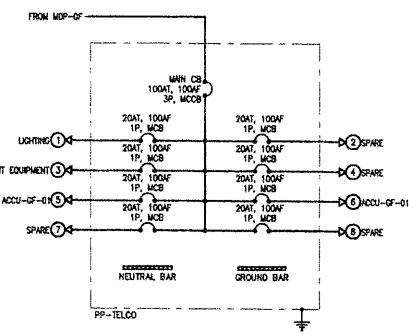
PP-3F-DEPT
PANELBOARD DIAGRAM
SCALE: NTS



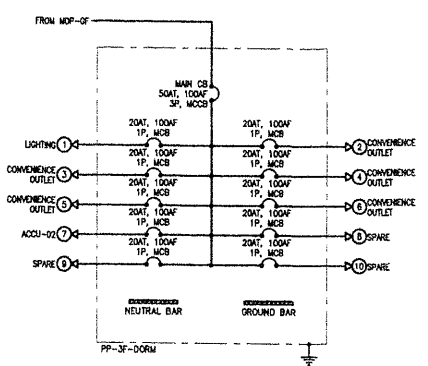
PP-3F-LFT
PANELBOARD DIAGRAM
SCALE: NTS



POWER SINGLE LINE DIAGRAM
SCALE: NTS



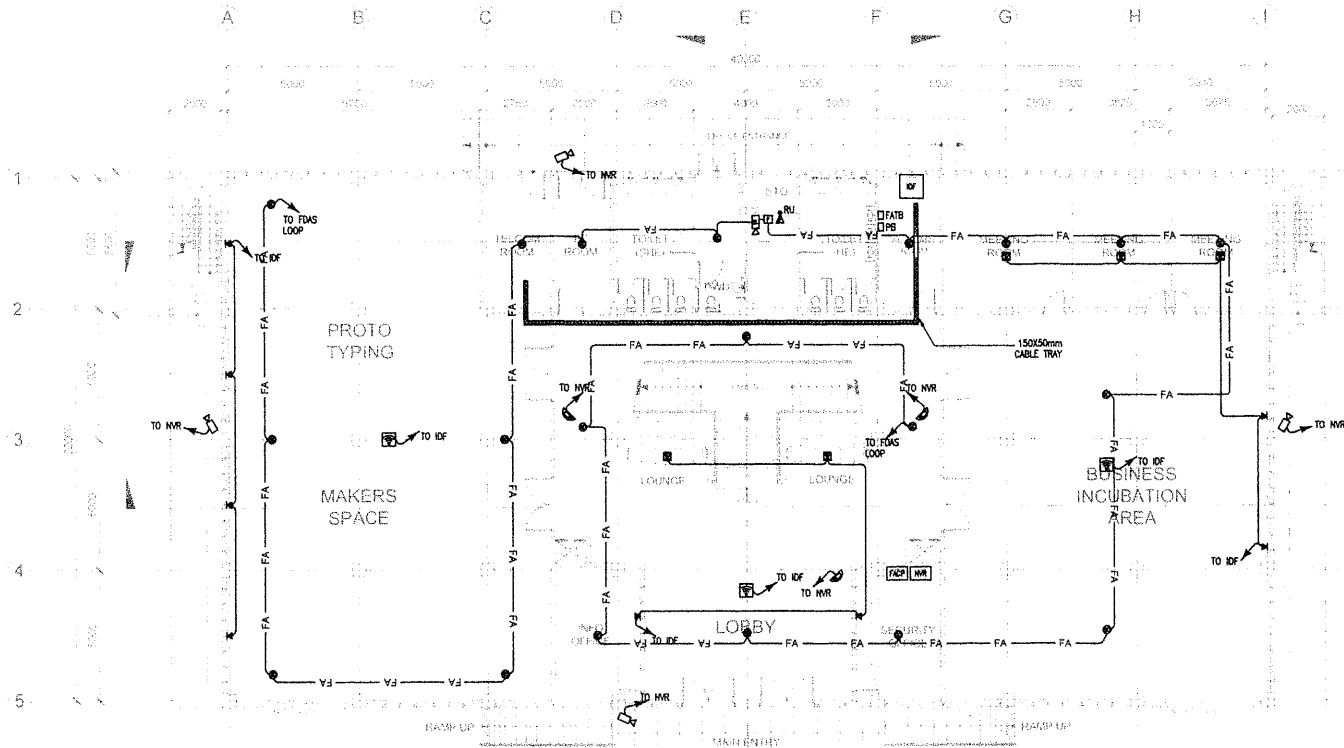
PP-TELO
PANELBOARD DIAGRAM
SCALE: NTS



PP-3F-DORM
PANELBOARD DIAGRAM
SCALE: NTS

	CONCURRED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE:	DRAWINGS AND SPECIFICATIONS AND OTHER DOCUMENTS REQUIRED IN THE PREPARATION OF THE PROPOSAL AND SUBMISSION OF THE PROPOSAL TO THE TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY SHALL BE VALID FOR A PERIOD OF THREE (3) MONTHS FROM THE DATE OF SUBMISSION OF THE PROPOSAL TO THE TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY. THE TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY SHALL BE RESPONSIBLE FOR THE PROVISION OF AND USE OF THE PROPOSAL AND SHALL BE RESPONSIBLE FOR THE PROVISION OF AND USE OF THE PROPOSAL AND SHALL BE RESPONSIBLE FOR THE PROVISION OF AND USE OF THE PROPOSAL.	PREPARED BY:	REVIEWED AND SUBMITTED BY:	SHEET CONTENTS:	SHEET NO.
	DIR. DANIEL B. BUNAGALLON EXECUTIVE DIRECTOR, ITESDO	DIR. JUANITO Q. OROZCO DIRECTOR, AS CHIEF OF STAFF, DPO DIRECTOR GENERAL, SPU	SEC. ISIDRO S. LAPENA, PhD, CSEE DIRECTOR GENERAL TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY	PROPOSED TESDA INNOVATION CENTER - MARIVELES		ENGR. JOHN AFRANCO SANTOS ELECTRICAL ENGINEER, SPU-DOO	ENGR. ROY LOUIS P. MINGARACAL IENG, SPU-DOO	POWER SINGLE LINE DIAGRAM PANELBOARD DIAGRAM	E3-01

LEGENDS AND SYMBOLS	
	SMOKE DETECTOR
	MANUAL PULL STATION
	STROBE LIGHT
	FIREMAN'S TELEPHONE JACK
	RISER UP/DOWN
	FIXED TYPE, IP-BASED CCTV CAMERA
	DOME TYPE, IP-BASED CCTV CAMERA
	WALL MOUNTED, VOICE/DATA OUTLET
	FLOOR MOUNTED, VOICE/DATA OUTLET
	WIRELESS ACCESS POINT

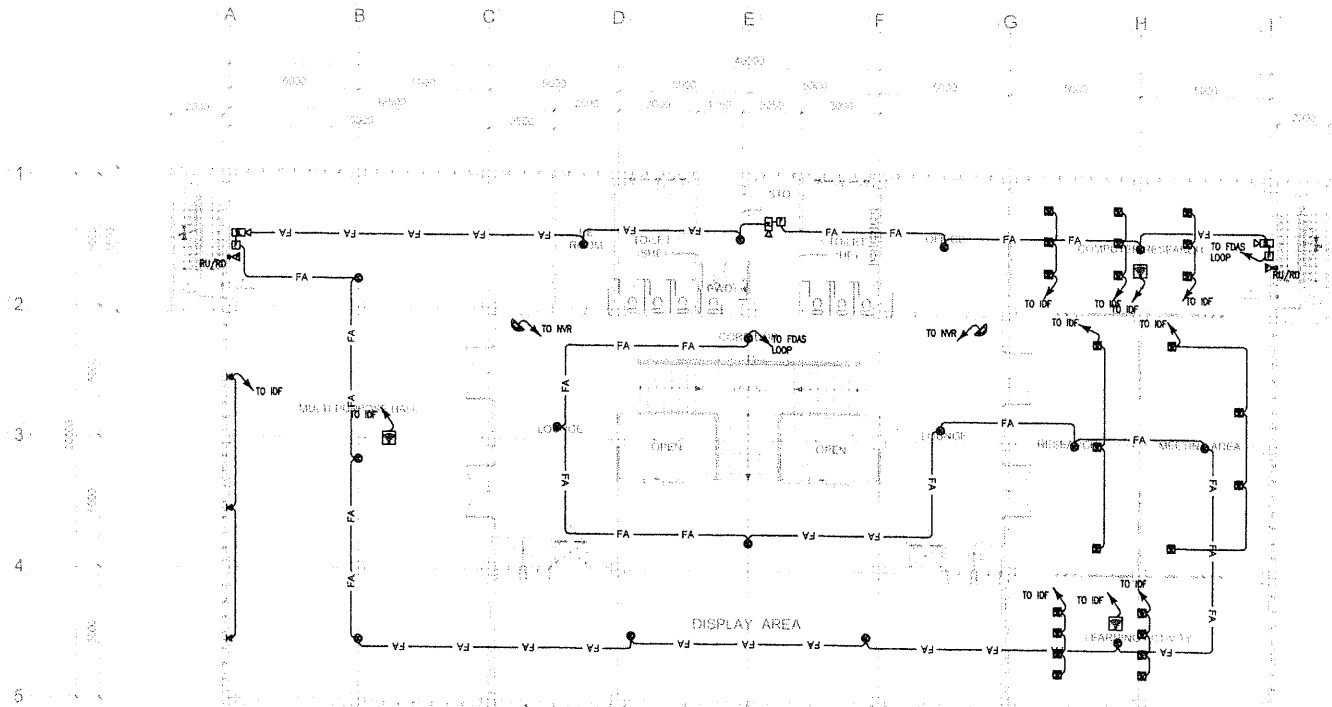


TESDA INNOVATION CENTER - MARIVELES
GROUND FLOOR AUXILIARY LAYOUT

SCALE: 1: 200 mm

<p>TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</p>	<p>CONCURRED BY:</p> DIR. DAVID B. BUNGALLON EXECUTIVE DIRECTOR, NITSDO	<p>RECOMMENDING APPROVAL:</p> DIR. JULIE M. GROZCO CHIEF OF STAFF, DDO DIRECTOR-IN-CHARGE, SPU	<p>APPROVED BY:</p> SEC. ISIDRO S. LAPENA, PhD, CSBE DIRECTOR GENERAL TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY	<p>PROJECT TITLE:</p> <p>PROPOSED TESDA INNOVATION CENTER - MARIVELES</p> <p>LOCATION: BPO CAMAYA, MARIVELES, DAVAO</p>	<p>DESIGNED AND REVISIONS AND CHANGE ORDERS REQUIRE THE SIGNATURE OF THE DESIGNER AND APPROVAL OF THE PROJECT MANAGER AND QUALITY ASSURANCE SUPERVISOR. THE DESIGNER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DESIGN AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE DESIGN. THE PROJECT MANAGER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE DESIGN. THE QUALITY ASSURANCE SUPERVISOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE DESIGN.</p>	<p>PREPARED BY:</p> ENGR. JOHN ZORILLO C. SANTOS ELECTRICAL ENGINEER, PD-050	<p>REVIEWED AND SUBMITTED BY:</p> ENGR. ROY LOUIE P. MINGARACAL ELECTRICAL ENGINEER, PD-050	<p>SHEET CONTENTS:</p> <p>GROUND FLOOR AUXILIARY LAYOUT</p>	<p>SHEET NO.</p> <p>EC1-01</p>
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LEGENDS AND SYMBOLS	
	SMOKE DETECTOR
	MANUAL PULL STATION
	STROBE LIGHT
	FIREMAN'S TELEPHONE JACK
	RISER UP/DOWN
	FIXED TYPE, IP-BASED CCTV CAMERA
	DOME TYPE, IP-BASED CCTV CAMERA
	WALL MOUNTED, VOICE/DATA OUTLET
	FLOOR MOUNTED, VOICE/DATA OUTLET
	WIRELESS ACCESS POINT

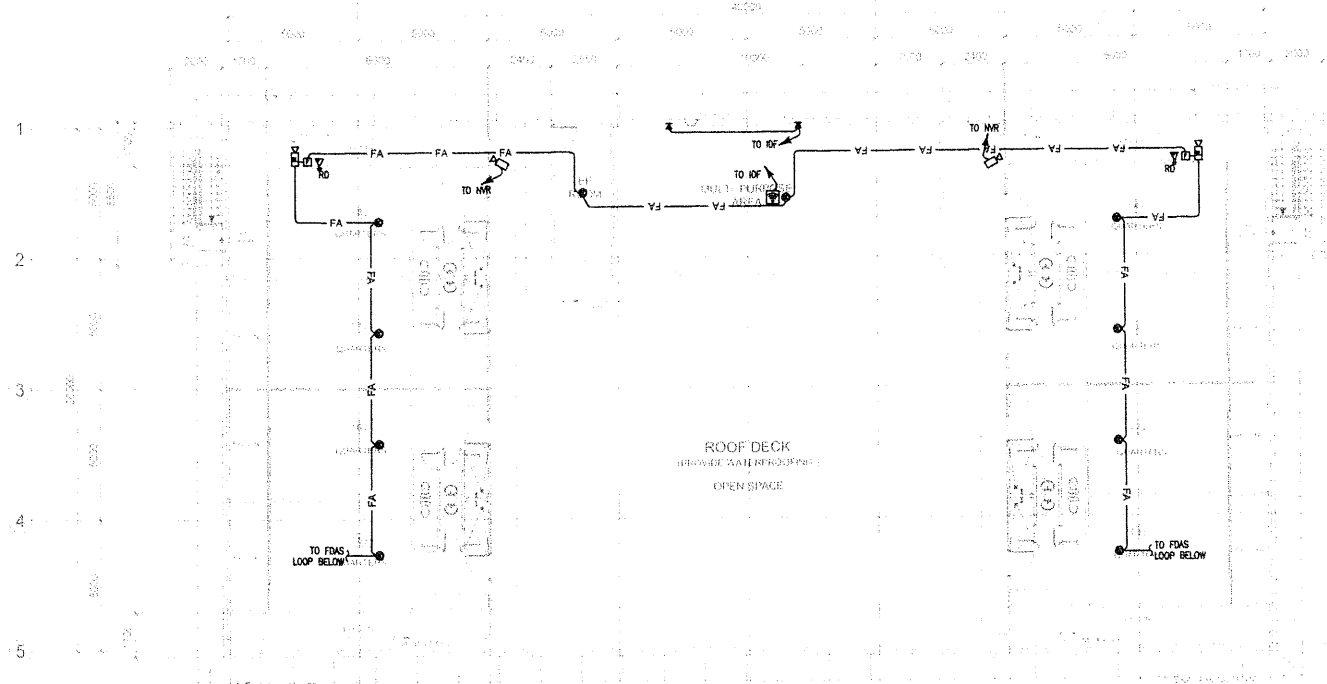


TESDA INNOVATION CENTER - MARIVELES
SECOND FLOOR AUXILIARY LAYOUT

SCALE: 1: 200 mm

 TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY	CONCURRED BY: DIR. DAVID B. BUIGALLON EXECUTIVE DIRECTOR, INFESD	RECOMMENDING APPROVAL: DIR. JULIAN M. ROZCO DIRECTOR IN CHARGE DIRECTOR IN CHARGE, SPU	APPROVED BY: SEC. ISIDRO S. LAPENA, PH.D., CSEE DIRECTOR GENERAL TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY	PROJECT TITLE: PROPOSED TESDA INNOVATION CENTER - MARIVELES LOCATION: BRGY. CAMATA, MARIVELES, BATAAN	PREPARED BY: ENGR. JOHN ADNAN E. SANTOS ELECTRICAL ENGINEER, SP0003	REVIEWED AND SUBMITTED BY: ENGR. ROY LOUIE P. MINGARACAL ELECTRICAL ENGINEER	SHEET CONTENTS: SECONDND FLOOR AUXILIARY LAYOUT	SHEET NO. EC1-02
	<small>DESIGNS AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS ARE THE PROPERTY OF TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY. NO PART OF THIS DOCUMENT SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN CONSENT OF TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY.</small>							

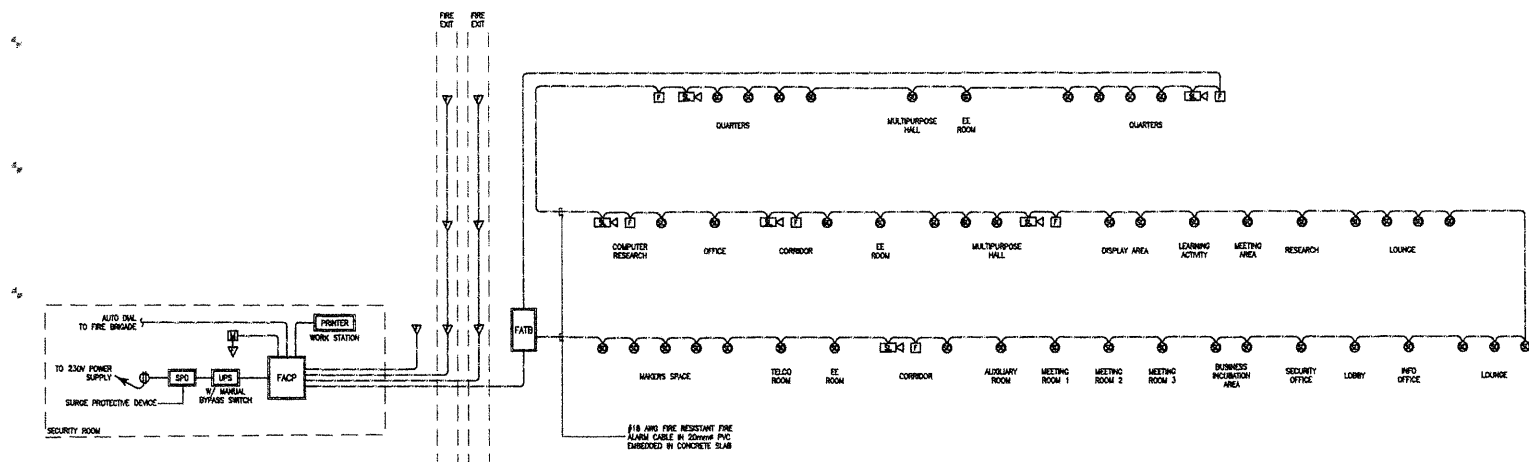
LEGENDS AND SYMBOLS	
	SMOKE DETECTOR
	MANUAL PULL STATION
	STROBE LIGHT
	FIREMAN'S TELEPHONE JACK
	RISER UP/DOWN
	FIXED TYPE, IP-BASED CCTV CAMERA
	DOME TYPE, IP-BASED CCTV CAMERA
	WALL MOUNTED, VOICE/DATA OUTLET
	FLOOR MOUNTED, VOICE/DATA OUTLET
	WIRELESS ACCESS POINT



TESDA INNOVATION CENTER - MARIVELES
THIRD FLOOR AUXILIARY LAYOUT

SCALE: 1: 200 mm

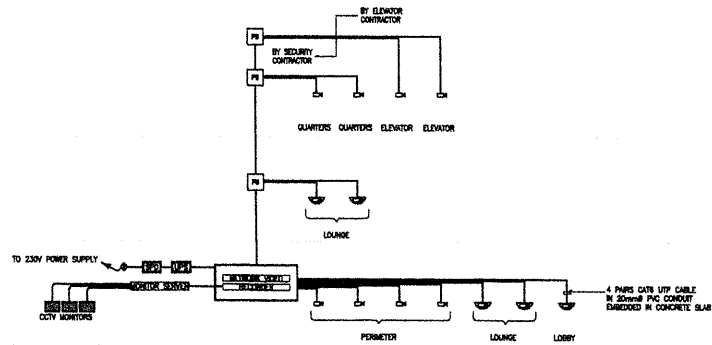
<p>TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</p>	<p>CONCURRED BY:</p> <p>DIR. DAVID B. BUNGALLON EXECUTIVE DIRECTOR, NITESD</p>	<p>RECOMMENDING APPROVAL:</p> <p>DIR. JULIUS C. OROZCO DIRECTOR FOR AS DIRECTOR IN CHARGE, SPU</p>	<p>APPROVED BY:</p> <p>SEC. ISIDORO S. LAPENA, PHD., CSEE DIRECTION GENERAL TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</p>	<p>PROJECT TITLE:</p> <p>PROPOSED TESDA INNOVATION CENTER - MARIVELES</p> <p>LOCATION: BRGY. GAMAYA, MARIVELES, BATAVI</p>	<p>DESIGNED AND SPECIFICATIONS AND DRAWINGS FOR THE PROJECT ARE THE PROPERTY OF TESDA INNOVATION CENTER - MARIVELES. THESE DRAWINGS ARE NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF TESDA INNOVATION CENTER - MARIVELES.</p>	<p>PREPARED BY:</p> <p>ENGR. JOHN DOMINIC SANTOS ELECTRICAL ENGINEER, SPU-002</p>	<p>REVIEWED AND SUBMITTED BY:</p> <p>ENGR. ROY LOUIE P. MINGARACAL HEAD, SPU-002</p>	<p>SHEET CONTENTS:</p> <p>THIRD FLOOR AUXILIARY LAYOUT</p>	<p>SHEET NO.</p> <p>EC1-03</p>
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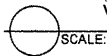
TESDA INNOVATION CENTER - MARIVELES
 FIRE DETECTION AND ALARM SYSTEM SINGLE LINE DIAGRAM

SCALE: NTS

<p>TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</p>	<p>CONCURRED BY:</p> <p>DIR. DAVID E. BUNGALLON EXECUTIVE DIRECTOR, NITSD</p>	<p>RECOMMENDING APPROVAL:</p> <p>DIR. JULIET O. DROZCO DIRECTOR, AS CHIEF OF STAFF, DDO DIRECTOR-IN-CHARGE, SPU</p>	<p>APPROVED BY:</p> <p>SEC. ISIDRO S. LAPEÑA, PHD., CSEE DIRECTOR GENERAL TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</p>	<p>PROJECT TITLE:</p> <p>PROPOSED TESDA INNOVATION CENTER - MARIVELES</p> <p>LOCATION: BRGY. CANAYA, MARIVELES, BATAAN</p>	<p>EXAMINE AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE PROPERTY AND SOCIETY OF TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY. WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXERCISED OR NOT, IT SHALL BE UNLAWFUL FOR ANY PERSON TO PLUCK OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE ABSENCE OF AND FOR OTHER PURPOSES OR IN ANY MANNER, WITHOUT THE WRITTEN CONSENT OF TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY.</p>	<p>PREPARED BY:</p> <p>ENGR. JOHN G. SANTOS ELECTRICAL ENGINEER, SPD-066</p>	<p>REVIEWED AND SUBMITTED BY:</p> <p>ENGR. RDY LOUIE P. MINGARACAL PE 10, E-14-2005</p>	<p>SHEET CONTENTS:</p> <p>FIRE DETECTION AND ALARM SYSTEM SINGLE LINE DIAGRAM</p>	<p>SHEET NO.</p> <p>EC2-01</p>
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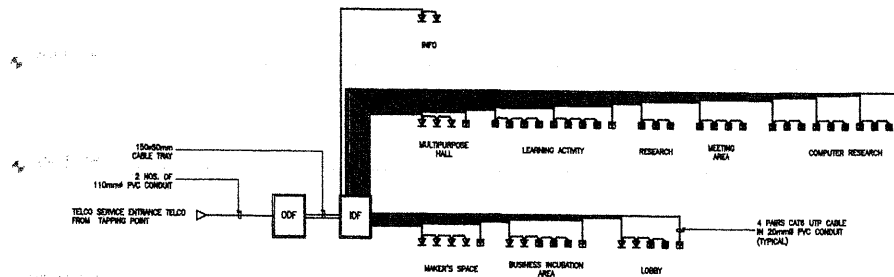


TESDA INNOVATION CENTER - MARIVELES
VOICE AND DATA SINGLE LINE DIAGRAM

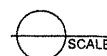


SCALE:

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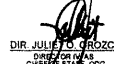


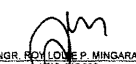


TESDA INNOVATION CENTER - MARIVELES
CLOSED CIRCUIT TELEVISION SINGLE LINE DIAGRAM



SCALE:

NTS

 <p>TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</p>	<p>CONCURRED BY:</p>  <p>DIR. DAVID B. BUNCALLAN EXECUTIVE DIRECTOR, TESDA</p>	<p>RECOMMENDING APPROVAL:</p>  <p>DIR. JULIE O. CROZCO DIRECTOR IN CHARGE, CSD</p>	<p>APPROVED BY:</p>  <p>SEC. ISIDRO S. LOPERA, PHD, CSEE DIRECTOR GENERAL TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</p>	<p>PROJECT TITLE:</p> <p>PROPOSED TESDA INNOVATION CENTER - MARIVELES</p> <p>LOCATION: BRGY. CAWAYA, MARIVELES, SAKAYAN</p>	<p>DESIGNS AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS ARE THE PROPERTY OF TESDA. ANY REPRODUCTION OR DISSEMINATION OF THESE DOCUMENTS WITHOUT THE WRITTEN PERMISSION OF TESDA IS STRICTLY PROHIBITED. THIS DOCUMENT IS FOR INFORMATION ONLY AND SHOULD NOT BE USED FOR ANY PURPOSE WITHOUT THE WRITTEN PERMISSION OF TESDA.</p>	<p>PREPARED BY:</p>  <p>ENGR. JOHN ANTHONY SANTOS ELECTRICAL ENGINEER, RPU-ODG</p>	<p>REVIEWED AND SUBMITTED BY:</p>  <p>ENGR. ROY LOUIE P. MINGARACAL HEAD, RPU-ODG</p>	<p>SHEET CONTENTS:</p> <p>VOICE AND DATA SINGLE LINE DIAGRAM CLOSED CIRCUIT TELEVISION SINGLE LINE DIAGRAM</p>	<p>SHEET NO.</p> <p>EC2-02</p>
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GENERAL PLUMBING NOTES:

- GENERAL NOTES ARE APPLICABLE TO ALL PLUMBING WORKING DRAWINGS
- THE WORK SHALL BE EXECUTED IN STRICT CONFORMITY WITH BASE BUILDING SPECIFICATION AND WITH THE LATEST EDITION OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND COVERING CODE OR ORDINANCE THE MORE STRINGENT STANDARD SHALL APPLY.
- ALL PLUMBING WORK SHALL BE COORDINATED WITH ALL OTHER TRADES BEFORE PROCEEDING WITH INSTALLATION.
- NO CHARGES ARE TO BE MADE IN PLUMBING LAYOUT WITHOUT WRITTEN PERMISSION BY THE ENGINEER OR RECORDS MASTER PLUMBER.
- NO PIPING SHALL RUN EXPOSED IN SALES OR FINISHED AREA.
- PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.
- ROUGH-IN DIMENSIONS OF TOILET FIXTURES MUST BE COORDINATED WITH GENERAL CONTRACTOR AND FIELD SUPERVISOR.
- INSTALL GATE VALVES/ BALL VALVES ON ALL BRANCH SUPPLY LINES.
- PROVIDE ACCESS PANELS ON ALL INACCESSIBLE VALVES AND CLEANOUTS. ACCESS PANELS SHALL BE PROVIDED BY GENERAL CONTRACTOR. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR LOCATION.
- ALL WORK SHALL BE PROPERLY TESTED, BALANCED AND CLEANED. PROVIDE ONE YEAR WARRANTY FROM DATE OF FINAL INSPECTION ON ALL PARTS AND LABOR.
- ALL FIXTURES TO BE SUPPLIED & INSTALLED BY PLUMBING CONTRACTOR.
- GENERAL CONTRACTOR SHALL COORDINATE WATER METER LOCATION AND INSTALLATION WITH LOCAL AUTHORITIES AND CIVIL DRAWINGS.
- TRAP SEAL PRIMERS ARE TO BE PROVIDED AT NO ADDITIONAL COST TO OWNER/CLIENT, IF REQUIRED BY LOCAL BUILDING CODE OFFICIALS.
- ALL VENT PIPE SHALL BE EXHAUST OVER THE CEILING OF ROOF OVERHANG. NO VENT SHALL EXTENDED THRU ROOF.
- APPLY A BEAD OF SEALANT AROUND ALL FIXTURES WHERE THEY MEET FLOORS, WALLS, ETC. PROVIDE PIPE SLEEVES AT ANY WALL FLOOR PENETRATION.
- THESE DRAWINGS ARE SCHEMATIC IN NATURE AND REPRESENT ONLY THE GENERAL AND APPROXIMATE LOCATIONS OF FIXTURES, PIPING, ETC. REFER TO THE ARCHITECTURAL PLANS AND ACTUAL CONDITIONS FOR LOCATING FIXTURES, ETC.
- THAT ALL WATER SUPPLIES TO FIXTURES ARE ANCHORED TO PREVENT ANY LATERAL MOVEMENT.
- SUPPORT ALL PIPING EQUIPMENT, ETC. AS PER CODE REQUIREMENTS.
- REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS OF PLUMBING.
- FURNISH AS REQUIRED FOR ALL FIXTURES, INCLUDING ONES FURNISHED BY OTHERS, P-TRAPS, ANGLE STOPS, RISERS, ESCUTCHEONS, ETC.
- EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO BIDDING IN ORDER TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DISCREPANCIES OR QUESTIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING RIGHT OR LEFT HAND OR FIXTURES.
- ALL PENETRATIONS OF CONCRETE FOUNDATIONS & FOOTINGS SHALL BE MINIMUM OF 50MM DIAMETER.
- ALL SANITARY SEWER PIPING UNDER CONCRETE SLAB SHALL BE MINIMUM OF 50MM DIAMETER.
- REFER TO ARCHITECTURAL SPECIFICATIONS FOR SOIL COMPACTING, CONCRETE AND ASPHALT REPAIR.
- SUBMIT SHOP DRAWINGS ON ALL PLUMBING FIXTURES. SEE ARCHITECTURAL FOR QUANTITY.
- USE POLYPROPYLENE FOR ALL WATER SUPPLY LINES.
- USE POLYVINYL CHLORIDE (PVC) SERIES 1000 FOR ALL DRAINAGE LINE. OBSERVE SLOPE OF 1% FOR LONG RUNNING DRAINAGE LINE AND SLOPE OF 2% FOR SHORT RUN DRAINAGE LINE. VERIFY.

GENERAL PLUMBING NOTES:

- ALL PLUMBING WORKS INCLUDED HEREIN SHALL BE EXECUTED ACCORDING TO THE REQUIREMENTS OF THE PHILIPPINE PLUMBING CODE AND RULES AND REGULATIONS OF THE GOVERNMENT.
- COORDINATE DRAWINGS WITH OTHER RELATED DRAWINGS AND SPECIFICATIONS.
- THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND THEREIN.
- PIPES SHALL BE INSTALLED AS INDICATED. ANY RELOCATION REQUIRED FOR PROPER EXECUTION OF OTHER TRADES SHALL BE PIPE STRUCTURE.
- ALL HORIZONTAL BRANCHES SHALL MAINTAIN 1% AS MINIMUM UNLESS NOTED OTHERWISE.
- ALL FIXTURES SHALL VENTED, UNLESS INDICATED.
- ALL INDIVIDUAL BRANCHES TO FIXTURES OR GROUP OF FIXTURES OR EQUIPMENT SHALL BE PROVIDED WITH AIR CHAMBER.

MATERIAL SPECIFICATIONS:

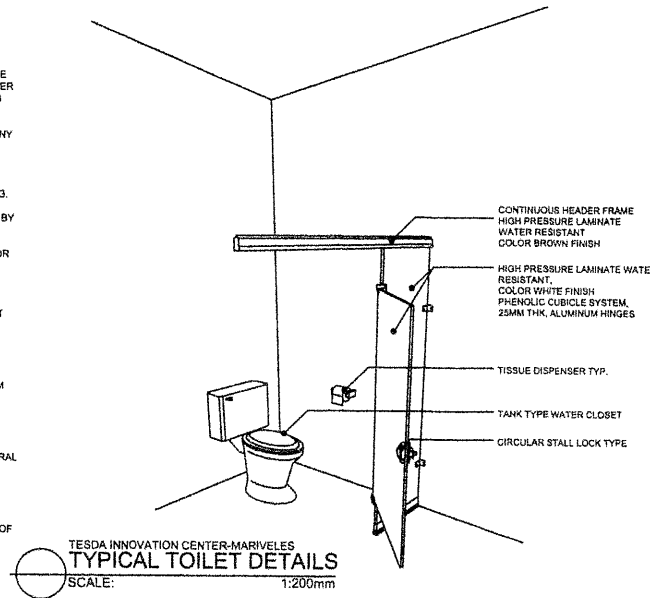
COLD WATER LINE (INTERIOR) - SHALL BE POLYPROPYLENE RANDOM (TYPE 3), HIGH RESISTANCE TO PRESSURE AND TEMPERATURE, CONFORMING TO EN ISO 15874, SIMILAR TO GEORGE FISCHER PP-R PIPE, UNITEC PP-R PIPE OR APPROVED EQUAL.

COLD WATER LINE (EXPOSED) - SHALL BE GALVANIZED STEEL PIPE, SCHEDULE 40, CONFORMING TO ASTM A 53 A 120, SIMILAR TO APO PIPE SCHEDULE 40 OR APPROVED EQUAL.

SOIL, WASTE AND VENT LINES - SHALL BE UNPLASTICIZED POLYVINYL CHLORIDE (UPVC) PIPE CONFORMING TO ASTM D2729, SIMILAR TO NELTEX SERIES 100 UPVC PIPE OR APPROVED EQUAL.

DOWNSPOUTS - SHALL BE UNPLASTICIZED POLYVINYL CHLORIDE (UPVC) PIPE CONFORMING TO ASTM D2729, SIMILAR TO NELTEX/ EMERALD/ MOLDEX SERIES 100 UPVC PIPE OR APPROVED EQUAL.

DRAINAGE LINE - SHALL BE UNPLASTICIZED POLYVINYL CHLORIDE (UPVC) PIPE CONFORMING TO ASTM D2729, SIMILAR TO NELTEX/EMERALD/ MOLDEX SERIES 1000 UPVC PIPE OR APPROVED EQUAL.



TESDA INNOVATION CENTER-MARIVELES
TYPICAL TOILET DETAILS
SCALE: 1:200mm

LEGEND		ABBREVIATION	
-----	SANITARY LINE	LAV	LAVATORY
-----	WATER LINE	KS	KITCHEN SINK
-----	DRAINAGE LINE	VAC	VENT ABOVE CEILING
-----	VENT PIPE	VP	VENT PIPE
-----	GATE VALVE	VTR/VC	VENT THRU ROOF/VENT THRU CEILING
-----	CHECK VALVE	SS	SOIL STACK/WASTE PIPE
-----	WATER METER	AAV	AIR ADMITTANCE VALVE
-----	FLOOR CLEANOUT	PVC	POLYVINYL CHLORIDE
Ø	DIAMETER	CWL	COLD WATER LINE
ABBREVIATION		FD	FLOOR DRAIN
AC	AIR CHAMBER	SH	SHOWER HEAD
WC	WATER CLOSET	DD	DECK DRAIN
URN	URINAL	BD	BALCONY DRAIN
		mm	MILLIMETER

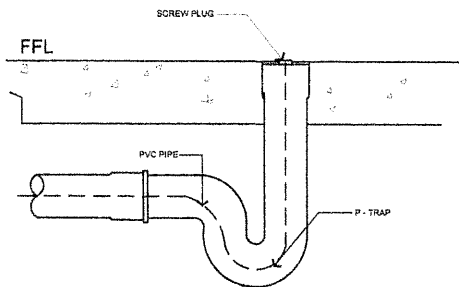
PLUMBING FIXTURES CONNECTION SIZE SCHEDULE

LEGEND	SYMBOL	MIN. PIPE CONNECTION SIZE MM DIAMETER				REMARKS
		WASTE/ SOIL	VENT	STORM	COLD WATER	
WC	WATER CLOSET	100	50	-	20	TANK TYPE
LAV	LAVATORY	50	50	-	20	-
KS	KITCHEN SINK	50	50	-	20	-
SHO/ SD	SHOWER/ SHOWER DRAIN	50	50	-	20	-
FD	FLOOR DRAIN	50	50	-	-	WITH P-TRAP
HB	HOSE BIBB	-	-	-	20	-

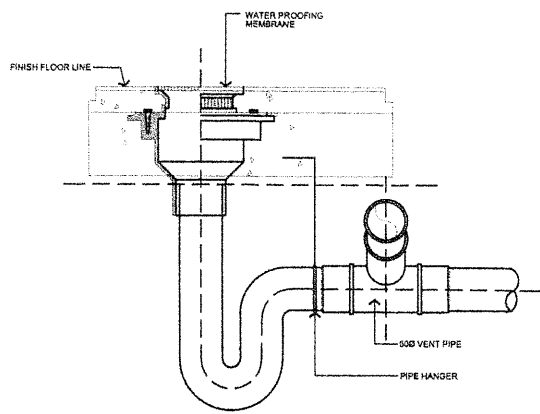
SPECIFICATION

ITEMS	MATERIAL	THICKNESS
WASTE/ SEWAGE LINE	POLYVINYL CHLORIDE (PVC)	SERIES 1000
VENT PIPES	POLYVINYL CHLORIDE (PVC)	SERIES 1000
STORM DRAINAGE LINE (DS)	POLYVINYL CHLORIDE (PVC)	SERIES 1000
RAINWATER COLLECTOR	POLYVINYL CHLORIDE (PVC)	SERIES 1000
WATERLINE (HOT/COLD)	PPR-C	PN 10

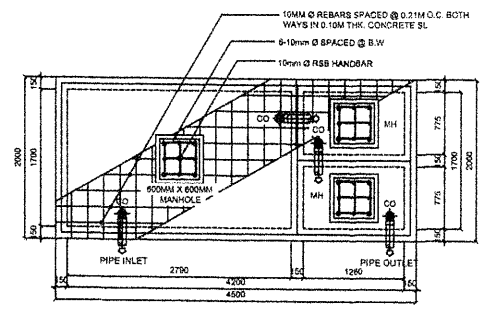
<p>TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</p>	<p>CONCURRED BY:</p> <p>DIR. DANILLO B. SUNALLANON EXECUTIVE DIRECTOR, MTESD</p>	<p>RECOMMENDING APPROVAL:</p> <p>DIR. JULIANO D. OROZCO DIRECTOR IN CHARGE, CHIEF OF STAFF, CDO DIRECTOR IN CHARGE, SHU</p>	<p>APPROVED BY:</p> <p>SEC. ISIDORO S. LAPERA, PH.D, CSEE TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</p>	<p>PROJECT TITLE:</p> <p>PROPOSED TESDA INNOVATION CENTER - MARIVELES</p> <p>LOCATION: Bay, Central Mariveles</p>	<p>DRAWINGS AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS ARE THE INTELLECTUAL PROPERTY OF TESDA AND SHALL BE KEPT IN STRICT CONFIDENCE. ANY REPRODUCTION OR DISSEMINATION OF THESE DOCUMENTS WITHOUT THE WRITTEN CONSENT OF TESDA IS STRICTLY PROHIBITED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF AND THE OTHER DOCUMENTS OF THE PROJECT.</p> <p>CADD & PREPARED BY:</p> <p>ARNEL A. MENDOZA ARCHITECT, PLS</p>	<p>REVIEWED BY:</p> <p>ENGR. FRANCISCO B. NARAG, JR. CIVIL ENGINEER, TESDA/SAIT</p>	<p>SUBMITTED BY:</p> <p>ENGR. ROY LOUIE P. MINGARACAL HEAD, SHU-CDO</p>	<p>SHEET CONTENTS:</p> <p>AS SHOWN</p>	<p>SHEET NO.</p> <p>P - 1</p>
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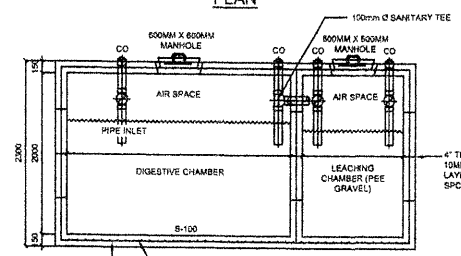
TESDA INNOVATION CENTER-MARIVELES
DETAIL OF CLEANOUT
 SCALE: 1:30mm



TESDA INNOVATION CENTER-MARIVELES
DETAIL OF DRAIN LAYOUT
 SCALE: 1:30mm

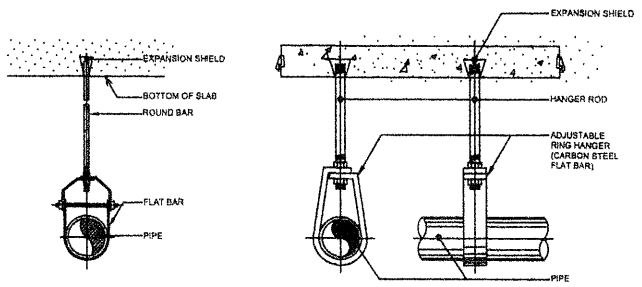


PLAN



SECTION

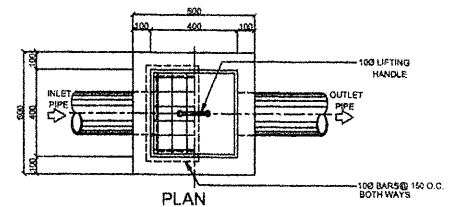
TESDA INNOVATION CENTER-MARIVELES
SEPTIC TANK DETAILS
 SCALE: 1:60mm



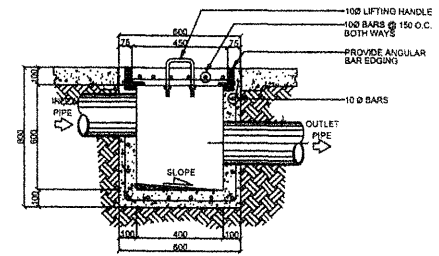
PIPE SIZE (MM)	FLAT BAR		ROUND BAR (MM)
	LOWER (MM)	UPPER (MM)	
65	4.8 x 32	4.8 x 32	12.7
80	4.8 x 32	4.8 x 32	12.7
100	4.8 x 32	4.4 x 32	15.9
150	4.8 x 32	4.4 x 32	19
200	4.8 x 32	4.4 x 32	25.4

PIPE SIZE (MM)	ROD SIZE (MM)	SIZE OF STEEL FLAT BAR (MM)		PIPE SIZE (MM)	ROD SIZE (MM)	SIZE OF STEEL FLAT BAR (MM)
		SIZE OF STEEL FLAT BAR (MM)	SIZE OF STEEL FLAT BAR (MM)			
15	10	3.2x25	85	12	8x32	8x32
20	10	3.2x25	80	12	8x32	8x32
25	10	3.2x25	100	16	8x32	8x32
32	10	3.2x25	125	16	8x32	8x32
40	10	3.2x25	150	20	8x40	8x40
50	10	3.2x25	200	22	8x50	8x50

TESDA INNOVATION CENTER-MARIVELES
DETAIL OF HANGERS
 SCALE: 1:30mm

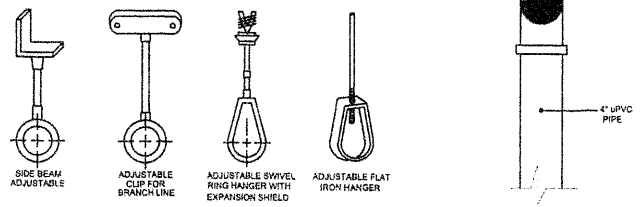


PLAN



SECTION

TESDA INNOVATION CENTER-MARIVELES
CATCH BASIN DETAILS
 SCALE: 1:30mm



TESDA INNOVATION CENTER-MARIVELES
ACCEPTABLE HANGERS
 SCALE: 1:30mm

TESDA INNOVATION CENTER-MARIVELES
VENT THRU ROOF DETAIL
 SCALE: 1:30mm



CONCURRED BY:
 DIR. DAVID B. BANGALON
 REGIONAL DIRECTOR, NCR/ED

RECOMMENDING APPROVAL:
 DIR. JULIO O. PROZCO
 CHIEF OF STAFF, DDO
 DIRECTOR-IN-CHARGE, SPV

APPROVED BY:
 SEC. ISIDRO S. LAPERA, PH.D., CSEE
 DIRECTOR GENERAL
 TECHNICAL EDUCATION AND SKILLS
 DEVELOPMENT AUTHORITY

PROJECT TITLE:
 PROPOSED TESDA
 INNOVATION CENTER - MARIVELES
 LOCATION: Brgy. Calang Mariveles, Bataan

DRAWINGS AND SPECIFICATIONS AND OTHER GENERAL REQUIREMENTS ARE THE SOLE PROPERTY OF THE PROJECT AND SHOULD BE KEPT IN STRICT CONFIDENCE. ANY REPRODUCTION OR DISTRIBUTION WITHOUT THE WRITTEN CONSENT OF THE DEVELOPER IS PROHIBITED.

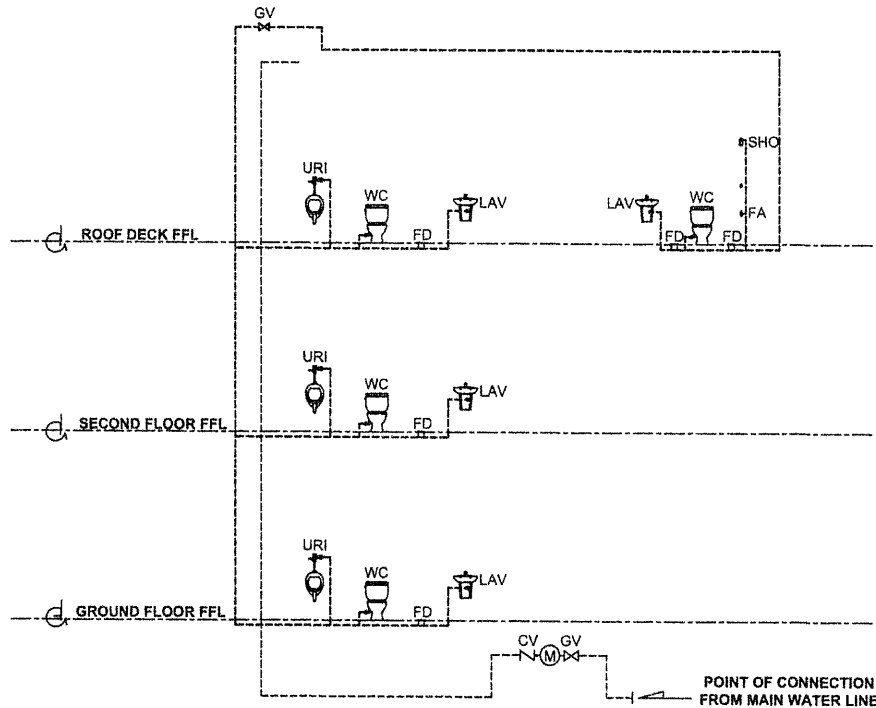
CADD & PREPARED BY:
 ARCH. RUIEL V. MENDOZA
 ARCHITECT, REG. DDO

REVIEWED BY:
 ENGR. FRANCISCO B. NARAG, JR.
 CIVIL ENGINEER, TESDA/BAIT

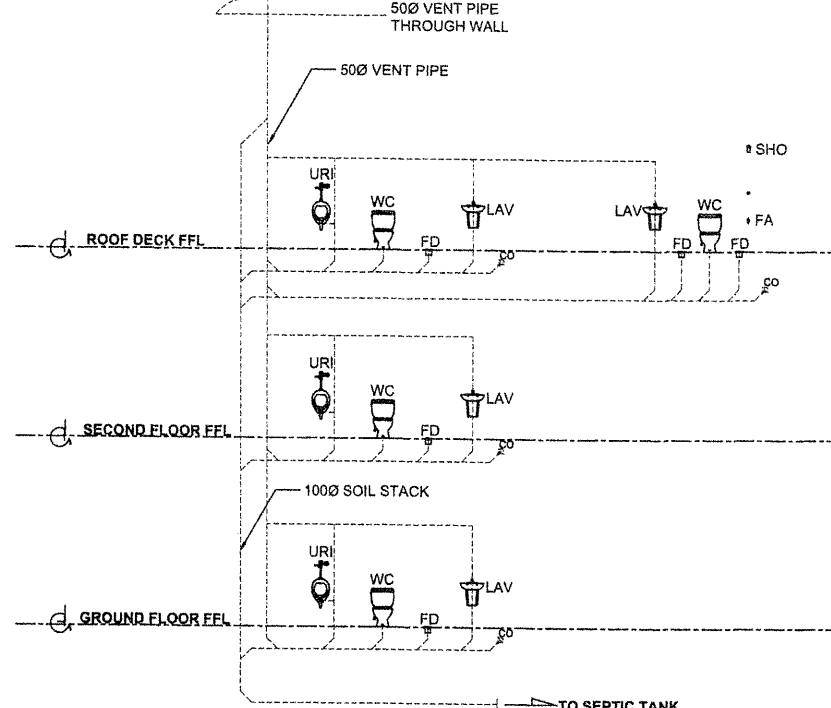
SUBMITTED BY:
 ENGR. ROY QUINER BINGARACAL
 HEAD, SPV/DOO

SHEET CONTENTS:
 AS SHOWN

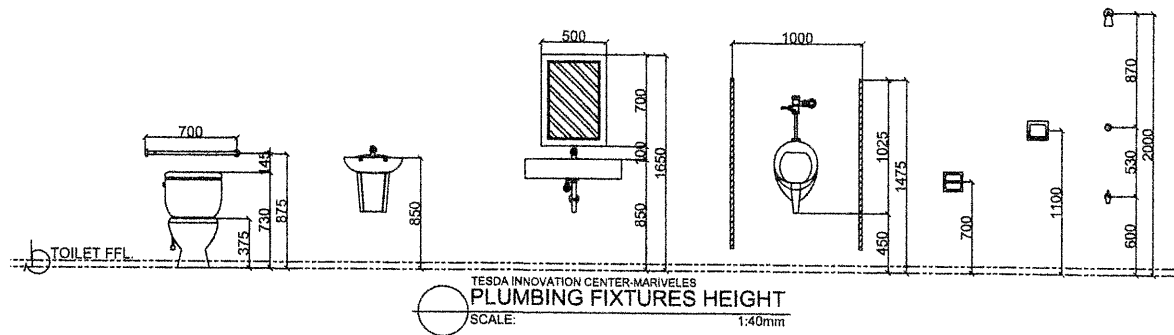
SHEET NO.
P - 2



TESDA INNOVATION CENTER-MARIVELES
WATERLINE RISER DIAGRAM
 SCALE: 1:100mm

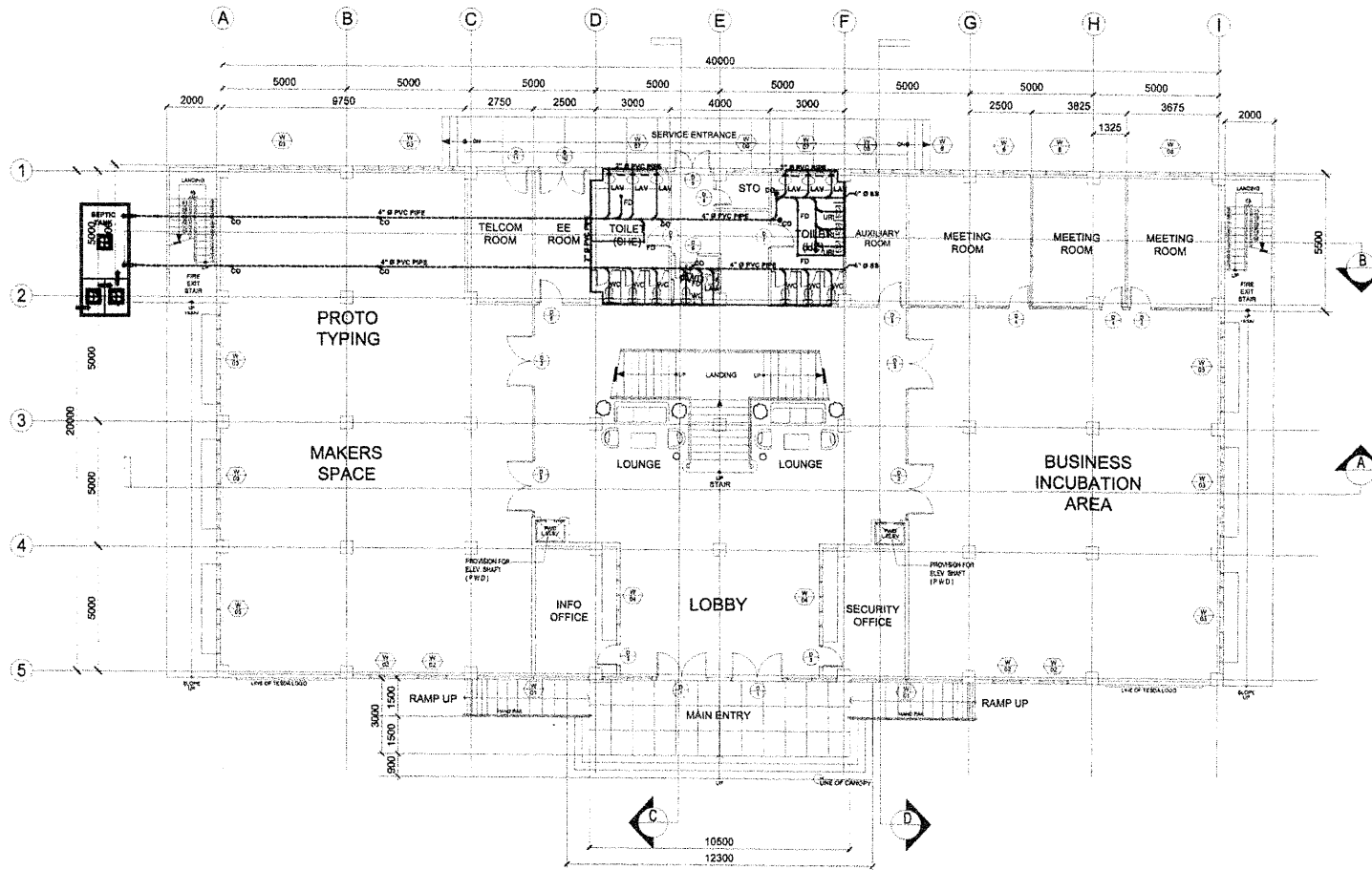


TESDA INNOVATION CENTER-MARIVELES
SANITARY RISER DIAGRAM
 SCALE: 1:100mm



TESDA INNOVATION CENTER-MARIVELES
PLUMBING FIXTURES HEIGHT
 SCALE: 1:40mm

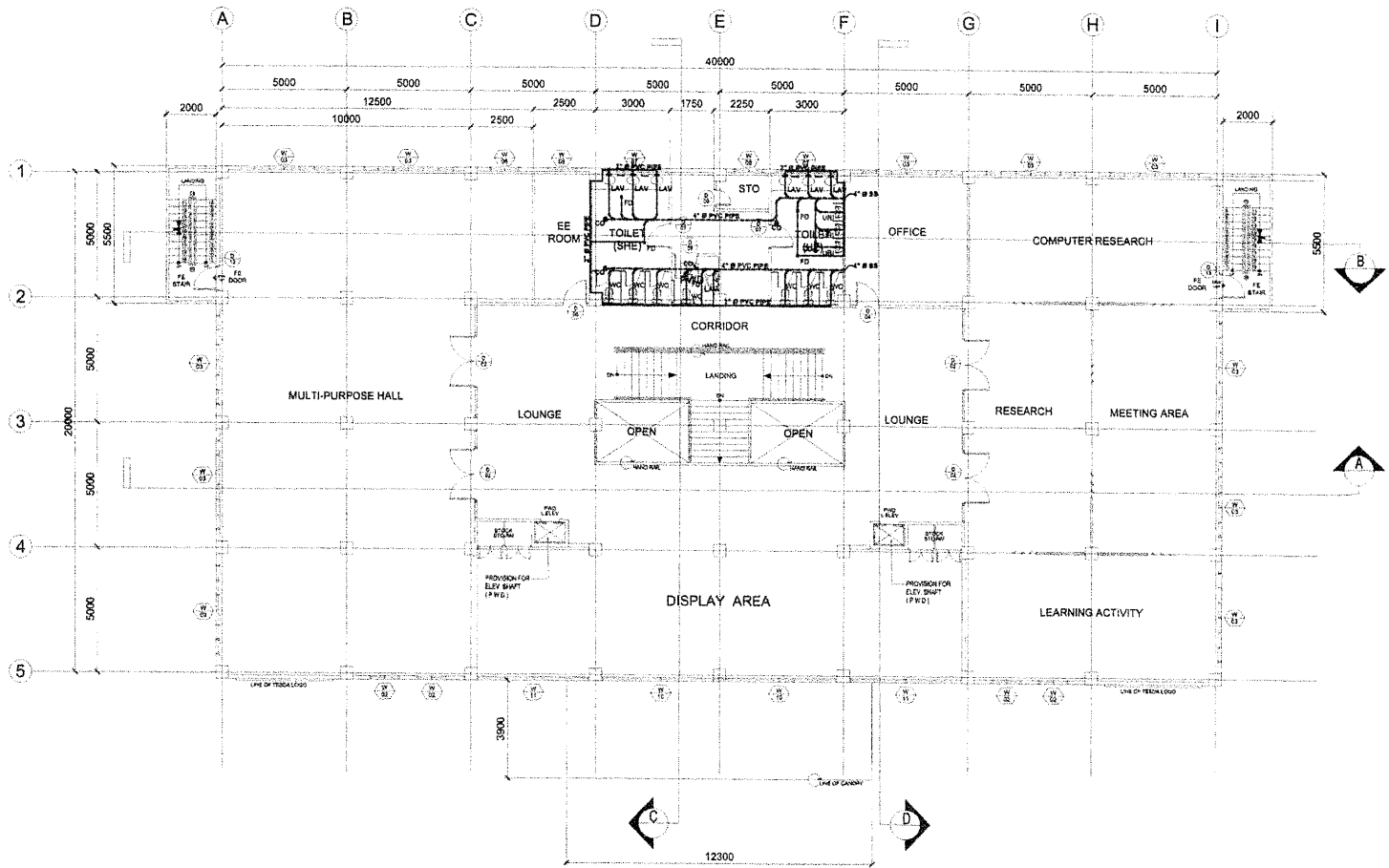
	CONCURRED BY: DIR. DANILLO B. BUNGALON EXECUTIVE DIRECTOR, TESDA	RECOMMENDING APPROVAL: DIR. JULIO P. OROZCO CHIEF OF STAFF, ODS DIRECTOR-IN-CHARGE, SPU	APPROVED BY: SEC. ISIDRO S. LAPERA, PH.D., CSEE DIRECTOR GENERAL TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY	PROJECT TITLE: PROPOSED TESDA INNOVATION CENTER - MARIVELES <small>LOCATION: Bay Street, Mariveles, Bataan</small>	<small>DRAWING AND SPECIFICATION AND OTHER CONTRACT DOCUMENTS ARE THE INTELLECTUAL PROPERTY OF TESDA AND SHALL REMAIN THE PROPERTY OF TESDA. ANY REVISIONS TO THIS DRAWING SHALL BE MADE BY TESDA. ANY REVISIONS TO THIS DRAWING SHALL BE MADE BY TESDA. ANY REVISIONS TO THIS DRAWING SHALL BE MADE BY TESDA.</small>	CADD & PREPARED BY: ARON BENJIE A. MENDOZA ARCHITECT, RUPRO	REVIEWED BY: ENGR. FRANCISCO B. NARAG, JR. CIVIL ENGINEER, TESDA-BAT	SUBMITTED BY: ENGR. RAY LOUIE P. MANGARACAL CIVIL ENGINEER, TESDA-BAT	SHEET CONTENTS: AS SHOWN	SHEET NO. P-3
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P
 TESDA INNOVATION CENTER-URDANETA (MARIVELES)
GROUND FLOOR SANITARY LAYOUT
 SCALE 1:200MTS



CONCURRED BY: DIR. DANILLO B. BUNSALLAN <small>EXECUTIVE DIRECTOR, ITESD</small>	RECOMMENDING APPROVAL: DIR. JULIAN P. ROZCO <small>DIRECTOR GENERAL CHIEF OF STAFF, CSD DIRECTOR-IN-CHARGE, SPU</small>	APPROVED BY: SEC. ISIDRO S. LAPERA, PHD., CSEE <small>DIRECTOR GENERAL TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</small>	PROJECT TITLE: PROPOSED TESDA INNOVATION CENTER - MARIVELES <small>LOCATION: Bay Center, Mariveles, Negros Occidental</small>	CADD & PREPARED BY: ARCHIBALDO REMENDOZA <small>REGISTERED ARCHITECT</small>	REVIEWED BY: ENGR. FRANCISCO B. NARAG, JR. <small>CIVIL ENGINEER, TESD-ITAT</small>	SUBMITTED BY: ENGR. ROY LOUIE P. MINGARACA <small>HEAD, SPU-CSD</small>	SHEET CONTENTS: AS SHOWN	SHEET NO. P- 4
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P
 TESDA INNOVATION CENTER-URDANETA (MARIVELES)
SECOND FLOOR SANITARY LAYOUT
 SCALE 1:200MTS



TECHNICAL EDUCATION
 AND
 SKILLS DEVELOPMENT
 AUTHORITY

CONCURRED BY:

 DIR. FLAVIO B. BUMBALLÓN
 EXECUTIVE DIRECTOR, HTESDO

RECOMMENDING APPROVAL:

 DIR. JULIANO P. ROZCO
 CHIEF OF STAFF/ASST.
 DIRECTOR-IN-CHARGE, EPU

APPROVED BY:

 SEC. ISIDRO S. LAPERA, PH.D., CSEE
 DIRECTOR GENERAL
 TECHNICAL EDUCATION AND SKILLS
 DEVELOPMENT AUTHORITY

PROJECT TITLE:
 PROPOSED TESDA
 INNOVATION CENTER - MARIVELES
LOCATION: Bay, General Mariano Alvarado Street

DESIGNED AND SPECIFICATIONS AND
 OTHER CONTRACT DOCUMENTS AND THE
 AGREEMENTS OF TECHNICAL EDUCATION
 AND SKILLS DEVELOPMENT AUTHORITY
 ARE HEREBY ACCEPTED ON BEHALF OF
 THE CLIENT. THE CONTRACTOR SHALL
 BE RESPONSIBLE FOR THE DESIGN AND
 CONSTRUCTION OF THE PROJECTS ON
 BEHALF OF THE CLIENT. THE CONTRACTOR
 SHALL BE RESPONSIBLE FOR THE
 CONSTRUCTION OF THE PROJECTS ON
 BEHALF OF THE CLIENT. THE CONTRACTOR
 SHALL BE RESPONSIBLE FOR THE
 CONSTRUCTION OF THE PROJECTS ON
 BEHALF OF THE CLIENT.

CADD & PREPARED BY:

 ARNEL R. MENDOZA
 ARCHITECT

REVIEWED BY:

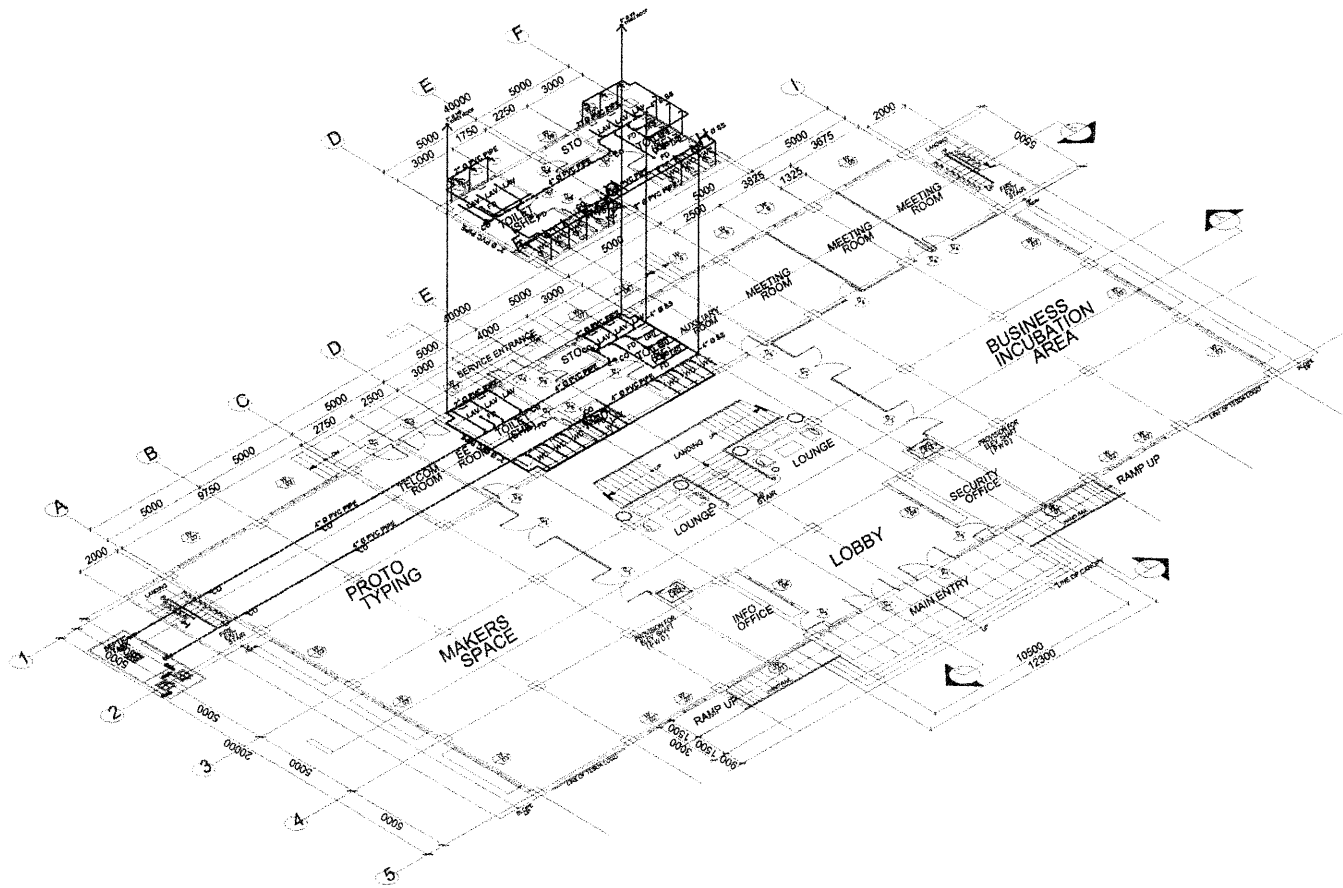
 ENGR. FRANCISCO B. NARAG, JR.
 CIVIL ENGINEER, TESDA-DAT

SUBMITTED BY:

 ENGR. ROY LOUIE P. MANGARACAL
 THIRD PARTY CODE

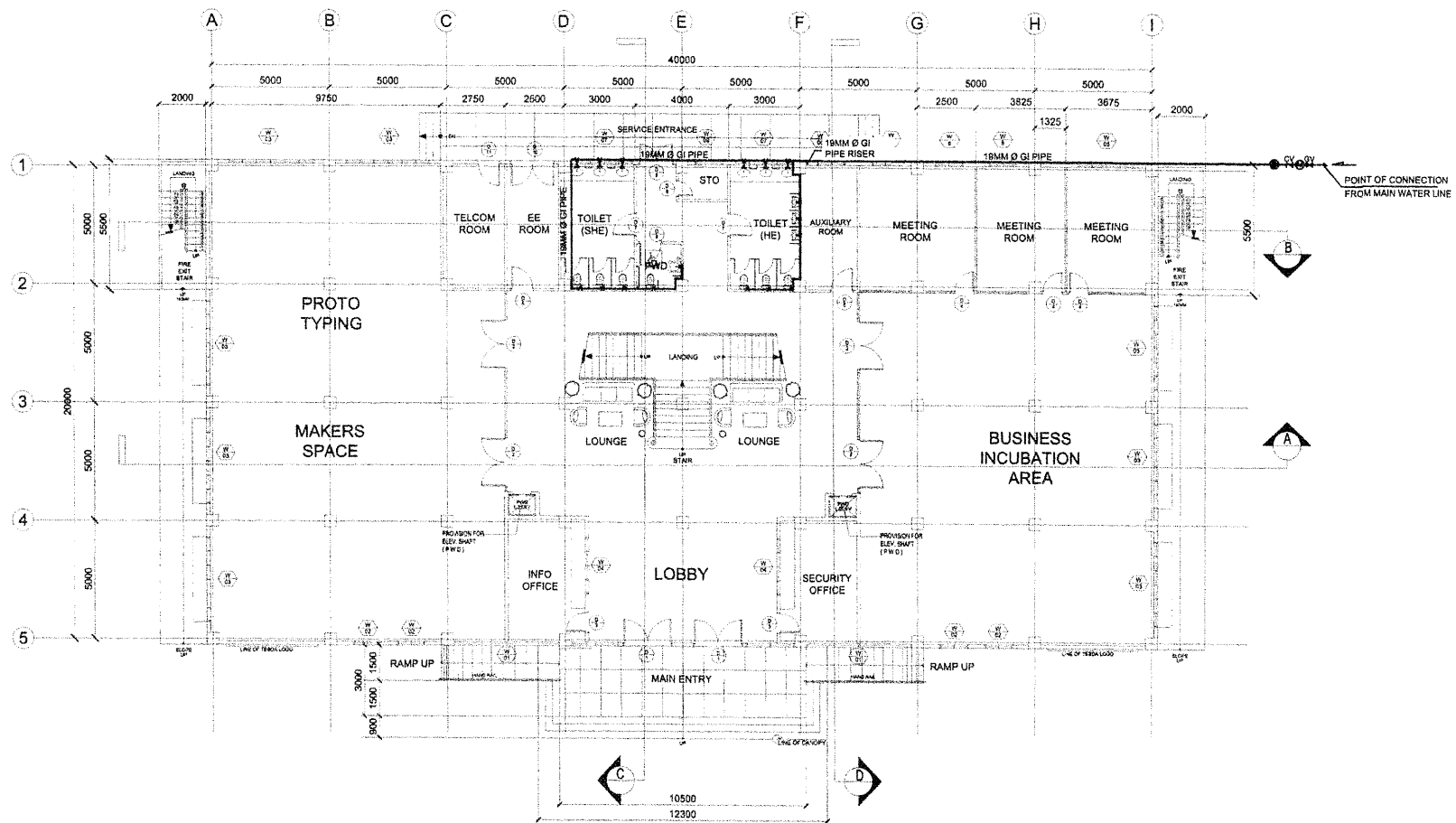
SHEET CONTENTS:
 AS SHOWN

SHEET NO.
P-5




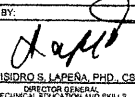


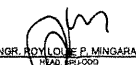


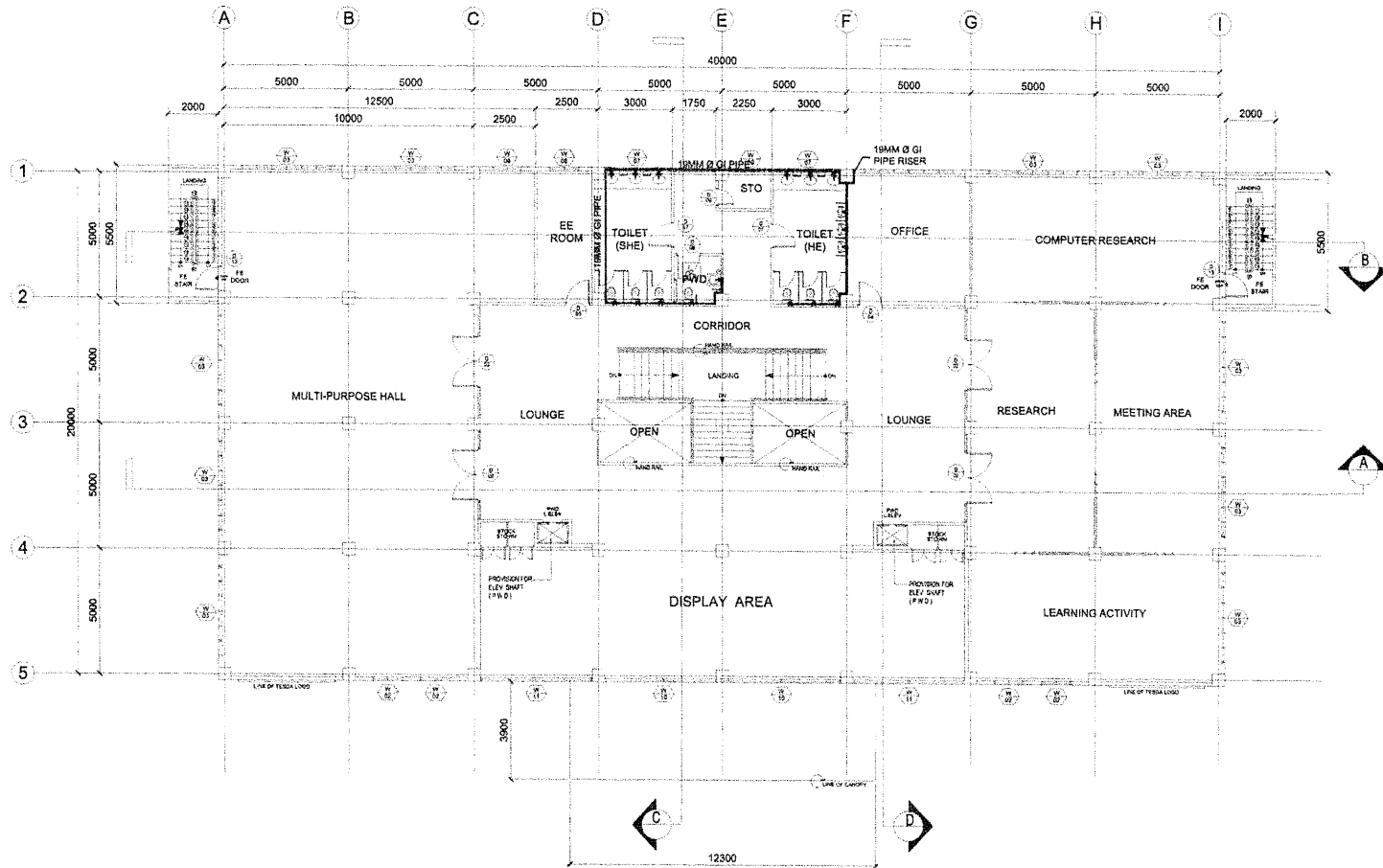
P
 TESDA INNOVATION CENTER-JURDANETA (MARIVELES)
SANITARY ISOMETRIC LAYOUT
 SCALE 1:200MTS

 TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY	CONCURRED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE:	SHOWS AND REPRESENTS THE GENERAL LAYOUT AND THE RELATIONSHIP OF ROOMS AND CORRIDORS. THIS DRAWING IS FOR INFORMATION ONLY AND IS NOT TO BE USED FOR CONSTRUCTION. THE ARCHITECT IS NOT RESPONSIBLE FOR THE ACCURACY OF THE DIMENSIONS AND AREAS SHOWN HEREON. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND AREAS BEFORE COMMENCING CONSTRUCTION.	CADD & PREPARED BY:	REVIEWED BY:	SUBMITTED BY:	SHEET CONTENTS:	SHEET NO.
	 <small>DIR. DAVID B. BUNSALLAN EXECUTIVE DIRECTOR, NITSD</small>	 <small>DIR. JULIE A. PROZCO CHIEF OF STAFF, CDS DIRECTOR-IN-CHARGE, SPU</small>	 <small>SEC. SIDRO B. LAPERA, PH.D., CSEE DIRECTOR GENERAL TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</small>	<small>PROPOSED TESDA INNOVATION CENTER - MARIVELES</small> <small>LOCATION: Bldg. 3, Camp 10, Mariveles, Bataan</small>	 <small>ARCH. DANIEL A. MENDOZA ARCHITECT, AIA-IBACOG</small>	 <small>ENGR. FRANCISCO B. NARAGS, JR. CIVIL ENGINEER, TESDA-IBAT</small>	 <small>ENGR. RUDY L. MINGARAGAL HEAD, NITSD</small>	AS SHOWN	P-6	




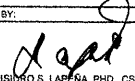





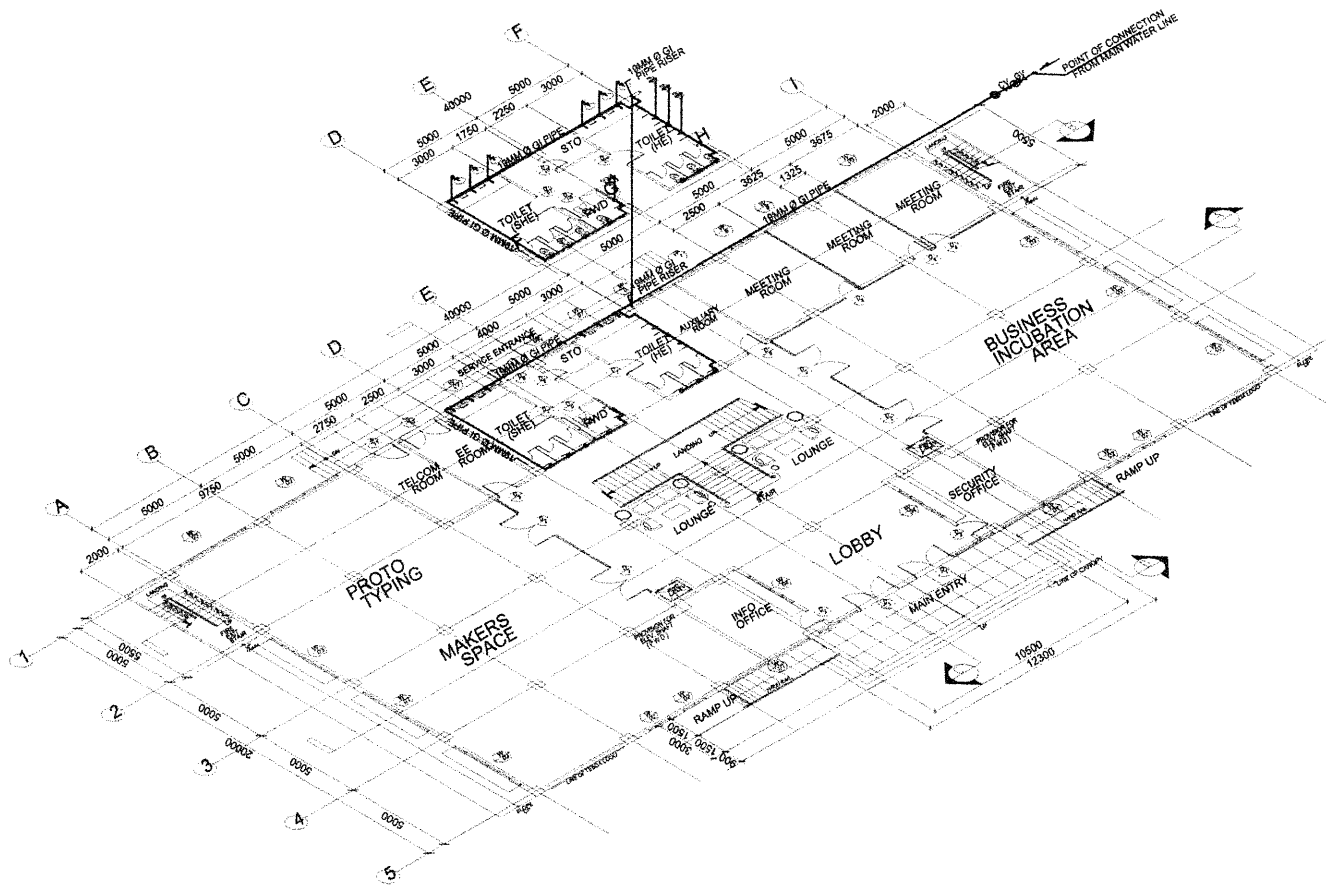
P
 TESDA INNOVATION CENTER-URDANETA (MARIVELES)
GROUND FLOOR WATER LINE LAYOUT
 SCALE 1:200MTS

 TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY	CONCURRED BY:  DIR. DAVID B. SUNGALLAN <small>EXECUTIVE DIRECTOR, ITESD</small>	RECOMMENDING APPROVAL:  DIR. JUNETE D. DROZCO <small>DEPUTY ASST. DIR. FOR SA/ACC DIRECTOR IN CHARGE, SP4</small>	APPROVED BY:  SEC. ISIDRO S. LAPENA, PH.D., CBE <small>DIRECTOR GENERAL TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</small>	PROJECT TITLE: PROPOSED TESDA INNOVATION CENTER - MARIVELES <small>LOCATION: Bay, Canang, Mariveles, Negros Occidental</small>	CADD & PREPARED BY:  ARCH. RUNITA A. MENDOZA <small>ARCHITECT, BR/1000</small>	REVIEWED BY:  ENGR. FRANCISCO B. NARAG, JR. <small>CIVIL ENGINEER, TESDA/ISAT</small>	SUBMITTED BY:  ENGR. ROY LOUIE P. MINGARACAL <small>HEAD, BR/1000</small>	SHEET CONTENTS: AS SHOWN	SHEET NO. P-7
	EXAMINED AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS AND THE PROVISIONS OF THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL AND MECHANICAL CODES OF THE PHILIPPINES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AUTHORITIES.								




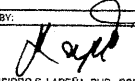


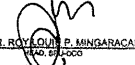


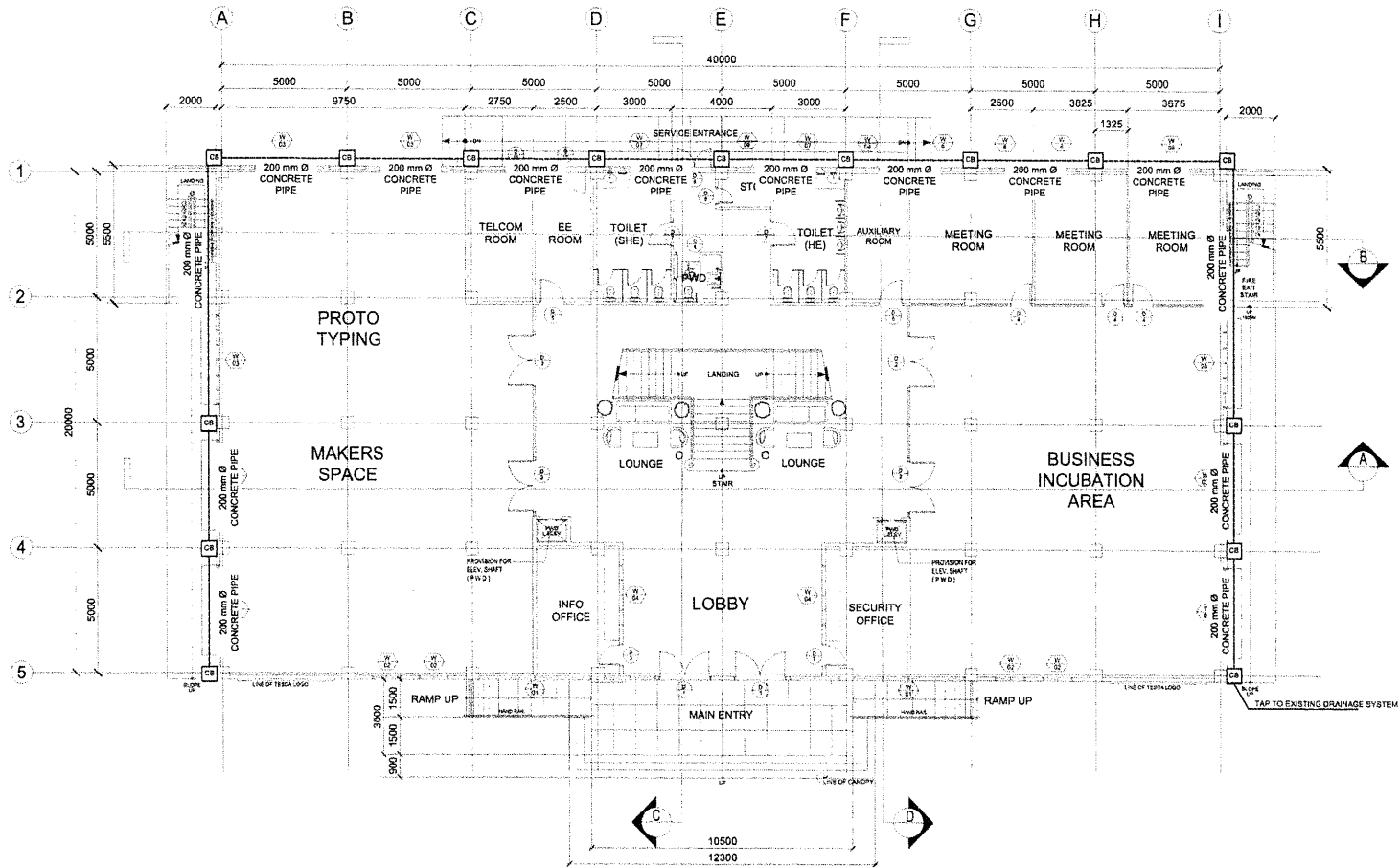
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TESDA INNOVATION CENTER-URDANETA (MARIVELES)
SECOND FLOOR WATER LINE LAYOUT
 SCALE 1:200MTS

 TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY	CONCURRED BY:  DIR. DAVID B. BUNSGALLAN <small>EXECUTIVE DIRECTOR, TESDA</small>	RECOMMENDING APPROVAL:  DIR. ISIDRO S. LAPENA <small>CHIEF OF STAFF, CDO DIRECTOR-IN-CHARGE, SPJ</small>	APPROVED BY:  SEC. ISIDRO S. LAPENA, PHD, CSEE <small>DIRECTOR GENERAL, TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</small>	PROJECT TITLE: PROPOSED TESDA INNOVATION CENTER - MARIVELES <small>LOCATION: Mariveles, Davao Occidental</small>	<small>DRAWING AND SPECIFICATIONS AND THEIR CONTENTS SHALL BE THE PROPERTY OF THE EMPLOYER AND SHALL BE KEPT IN CONFIDENCE. THE EMPLOYER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE PROJECT AND SHALL NOT BE HELD RESPONSIBLE FOR ANY DAMAGE TO THE PROJECT OR TO THE EMPLOYER'S PROPERTY. THE EMPLOYER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE PROJECT AND SHALL NOT BE HELD RESPONSIBLE FOR ANY DAMAGE TO THE PROJECT OR TO THE EMPLOYER'S PROPERTY.</small> CADD & PREPARED BY:  ARNEL R. MENDOZA <small>REGISTERED ELECTRICAL ENGINEER</small>	REVIEWED BY:  ENGR. FRANCISCO B. NARAG, JR. <small>CIVIL ENGINEER, TESDA-SAT</small>	SUBMITTED BY:  ENGR. ROY O. P. MINGARACA <small>HEAD, SPJ-CDO</small>	SHEET CONTENTS: AS SHOWN	SHEET NO. P-8
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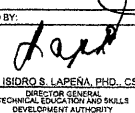


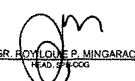


P
 TESDA INNOVATION CENTER-URDANETA (MARIVELES)
WATER LINE ISOMETRIC LAYOUT
 SCALE 1:200MTS

	CONCURRED BY:  DIR. DAVID B. BUNCALLAN <small>EXECUTIVE DIRECTOR, NITESO</small>	RECOMMENDING APPROVAL:  DIR. JUNY P. OROZCO <small>DIRECTOR GENERAL CHIEF OF BUREAU OFFICE DIRECTOR-IN-CHARGE, SPU</small>	APPROVED BY:  SEC. ISIDRO S. LAPENA, PH.D., CSEE <small>DIRECTOR GENERAL TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</small>	PROJECT TITLE: PROPOSED TESDA INNOVATION CENTER - MARIVELES <small>150418th May, Capas, Mariveles, Bataan</small>	CADD & PREPARED BY:  ENGR. REGINO A. MENDOZA <small>ARCHITECT, SPU</small>	REVIEWED BY:  ENGR. FRANCISCO B. NARAG, JR. <small>CIVIL ENGINEER, TESDA/SPU</small>	SUBMITTED BY:  ENGR. ROWEL QUIÑ B. MANGARACAL <small>CIVIL ENGINEER</small>	SHEET CONTENTS: AS SHOWN	SHEET NO. P-9
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P
TESDA INNOVATION CENTER-URDANETA (MARIVELES)
GROUND FLOOR STORM WATER DRAINAGE LAYOUT
 SCALE 1:200MTS

 TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY	CONCURRED BY:  DIR. DAVID BUNGALTON <small>EXECUTIVE DIRECTOR, NITSD</small>	RECOMMENDING APPROVAL:  DIR. J. L. OROZCO <small>DIRECTOR GENERAL AS CHIEF OF STAFF AND DIRECTOR IN CHARGE, SPU</small>	APPROVED BY:  SEC. ISIDRO S. LAPENA, PH.D., CSEE <small>DIRECTOR GENERAL, TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</small>	PROJECT TITLE: PROPOSED TESDA INNOVATION CENTER - MARIVELES <small>LOCATION: 8th District, Mariveles, Bataan</small>	CADD & PREPARED BY:  ARCH. DANIEL A. MENDOZA <small>ARCHITECT, BUCOR</small>	REVIEWED BY:  ENGR. FRANCISCO B. NARAG, JR. <small>CIVIL ENGINEER, TESDA-ISAT</small>	SUBMITTED BY:  ENGR. ROY L. P. MINGARAL <small>HEAD, SPUCC</small>	SHEET CONTENTS: AS SHOWN	SHEET NO. P- 10
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