

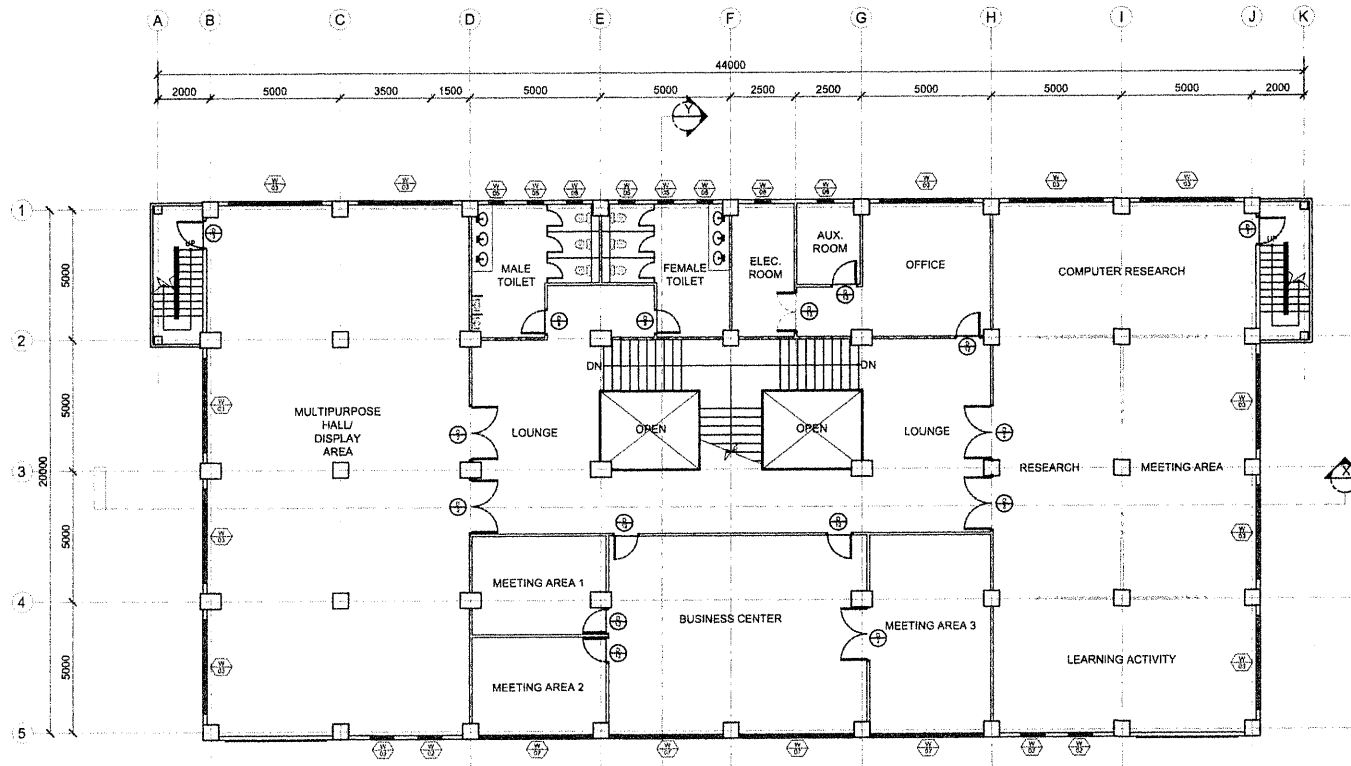


A
TESDA INNOVATION CENTER - ISAT
PROPOSED GROUND FLOOR PLAN
 SCALE 1:200MTS

	CONCURRED BY:  DIR. DAVID B. ONGALLON <small>EXECUTIVE DIRECTOR, ITESAD</small>	RECOMMENDING APPROVAL:  DIR. JULIET D. OROZCO <small>DIRECTOR IV, AG CHIEF OF STAFF, CDS DIRECTOR IN CHARGE, SPU</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 - ISAT <small>LOCATION: MAKASIKING ST AND TERNALTA STS, CALABANG, PANGASINAN CITY</small>	DESIGNED AND ORGANIZED: <small>AND OTHER CONTRACT DOCUMENTS ARE THE PROPERTY OF THE ARCHITECT AND ENGINEER'S CONSULTANT. NO PART OF THIS DOCUMENT SHALL BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT AND ENGINEER'S CONSULTANT.</small>	CADD BY:  MS. GRACIE C. TEODORO <small>CAD OPERATOR, SPLI-ODG</small>	PREPARED BY:  ARCH. CARLOS D. MANANQUIL <small>ARCHITECT CONSULTANT</small>	REVIEWED BY:  ARCH. DANIEL A. MENDOZA <small>ARCHITECT CONSULTANT</small>	SUBMITTED BY:  ENGR. ROY LOUIE P. MINGARACAL <small>TRAD. SPLI-ODG</small>	SHEET CONTENTS: AS SHOWN	SHEET NO. A-1
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A
TESDA INNOVATION CENTER - ISAT
PROPOSED SECOND FLOOR PLAN
 SCALE 1:200MTS



**TECHNICAL EDUCATION
 AND
 SKILLS DEVELOPMENT
 AUTHORITY**

CONCURRED BY:

DIR. DAVID B. BUNCILLON
 EXECUTIVE DIRECTOR, NTEBDO

RECOMMENDING APPROVAL:

DIR. DANIEL FLOROZCO
 DIRECTOR GENERAL AS
 CHIEF OF STAFF, CEO
 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 - ISAT**
LOCATION: National Building #100 and 101, P.O. Box 117, TESDA ISAT, Cebu City

DRAWINGS AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS ARE THE INTELLECTUAL PROPERTY AND SOLE DEVELOPMENT AUTHORITY OF THE TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY. ANY REUSE OR REPRODUCTION OF THIS DRAWING WITHOUT THE WRITTEN CONSENT OF THE AUTHORITY SHALL BE UNLAWFUL. FOR ANY PERSON TO DISCLOSE OR TO MAKE COPIES OF THIS DRAWING FOR USE IN THE OPERATION OF ANY AND ALL OTHER PROJECTS OR VENTURES WITHOUT THE WRITTEN CONSENT OF THE TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY.

CADD BY:

MS. GRACIE C. TEODORO
 CAD OPERATOR, SPU-ODG

PREPARED BY:

ARCH. CARLOS D. MANRINJUIL
 ARCHITECT CONSULTANT

REVIEWED BY:

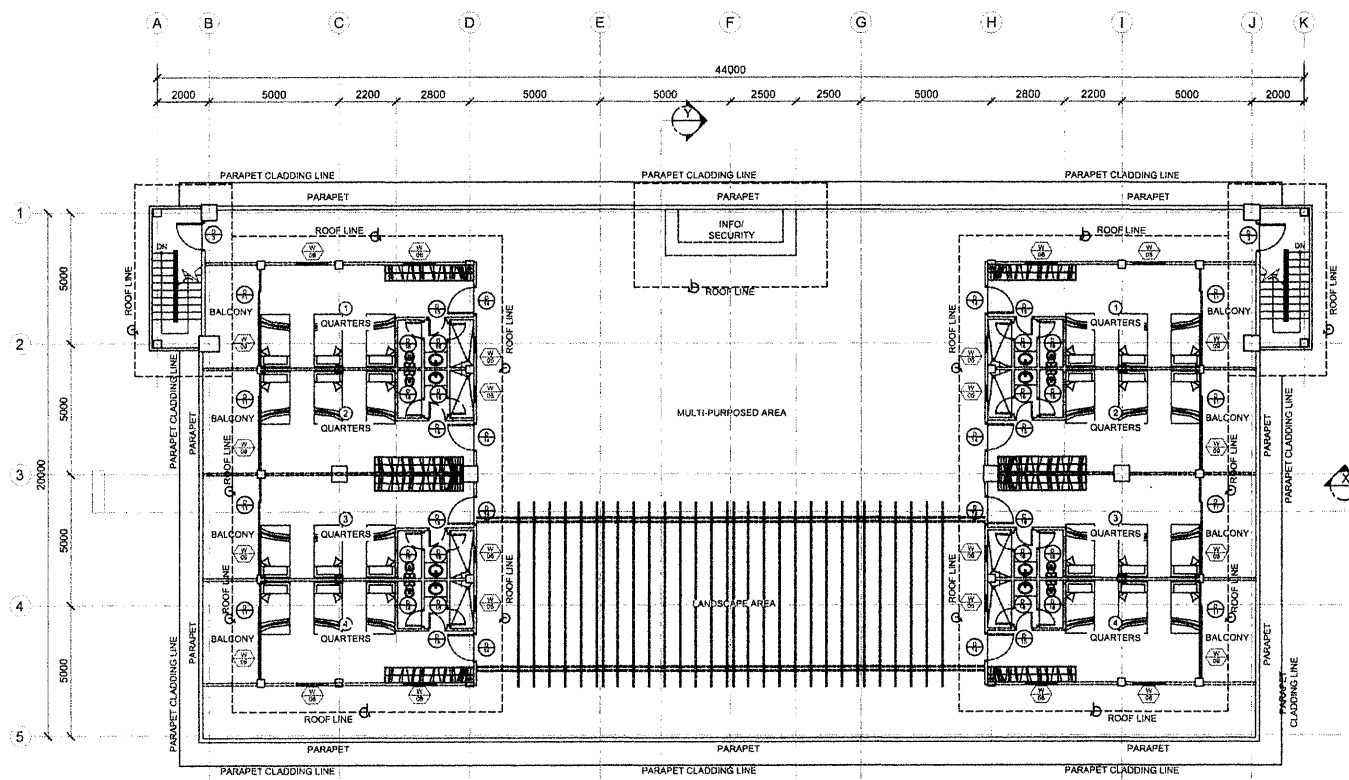
ARCH. DANIEL A. MENDOZA
 ARCHITECT, SPU-ODG

SUBMITTED BY:

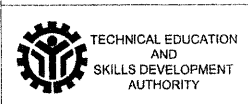
ENGR. ROY LOUIE P. MINGARAGAL
 HEAD, SPU-ODG

SHEET CONTENTS:
 AS SHOWN

SHEET NO.
A-2



A
TESDA INNOVATION CENTER - ISAT
PROPOSED ROOF DECK PLAN
 SCALE 1:200MTS



CONCURRED BY:

 DIR. DAVID B. BUNCALLAN
 EXECUTIVE DIRECTOR, NITSDO

RECOMMENDING APPROVAL:

 DIR. JULIET M. MOROZCO
 DIRECTOR, AS
 CHIEF OF STAFF, DDC
 DIRECTOR-IN-CHARGE, EPU

APPROVED BY:

 SEC. ISIDORO S. LAPENA, PH.D., CSEE
 DIRECTOR GENERAL
 TECHNICAL EDUCATION AND SKILLS
 DEVELOPMENT AUTHORITY

PROJECT TITLE:
 PROPOSED TESDA
 INNOVATION CENTER - ISAT
LOCATED: Avenida España at Arca and T. Padre (TESDA-ISAT), Cebu City, Marikina City

DRAWINGS AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS ARE THE PROPERTY OF THE PROJECT AND SOLELY OF TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY. ANY REUSE OR REPRODUCTION OF THESE DRAWINGS WITHOUT THE WRITTEN PERMISSION OF THE PROJECT MANAGER SHALL BE UNLAWFUL FOR ANY PURPOSE. TO PROTECT OR TO HAVE CONTROL OF THESE DOCUMENTS FOR USE IN THE PREPARATION OF ANY OTHER PROJECTS PARTIAL OR A WHOLE REPRODUCED, THE DIRECTOR GENERAL OF TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY.

CADD BY:

 MS. GRACIE C. TEODORO
 CAD OPERATOR, SPU-DGG

PREPARED BY:

 ARCH. CARLOS D. MANGALIL
 ARCHITECT CONSULTANT

REVIEWED BY:

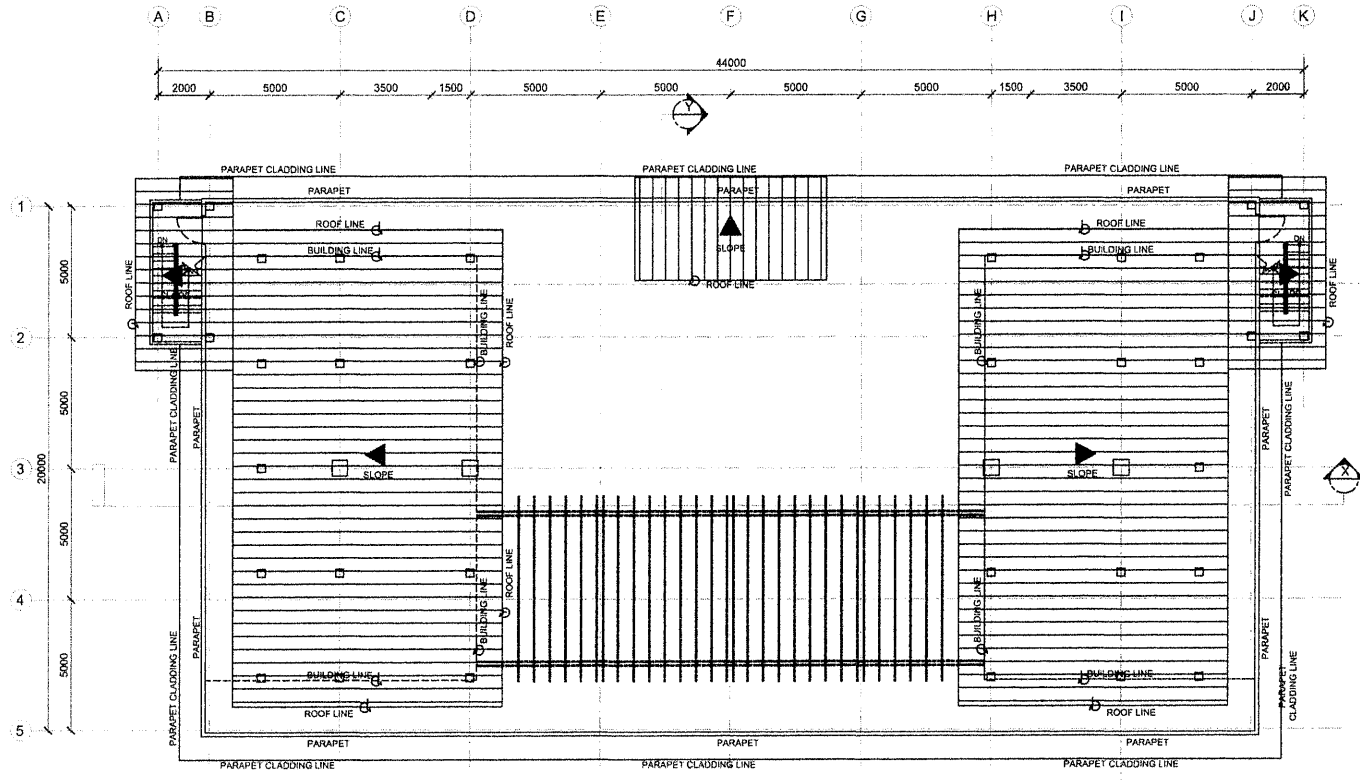
 ARCH. RONIEL A. MENDOZA
 ARCHITECT, SPU-DGG

SUBMITTED BY:









 ENGR. ROY LOUIS P. MINGARACAL
 HEAD OFFICE

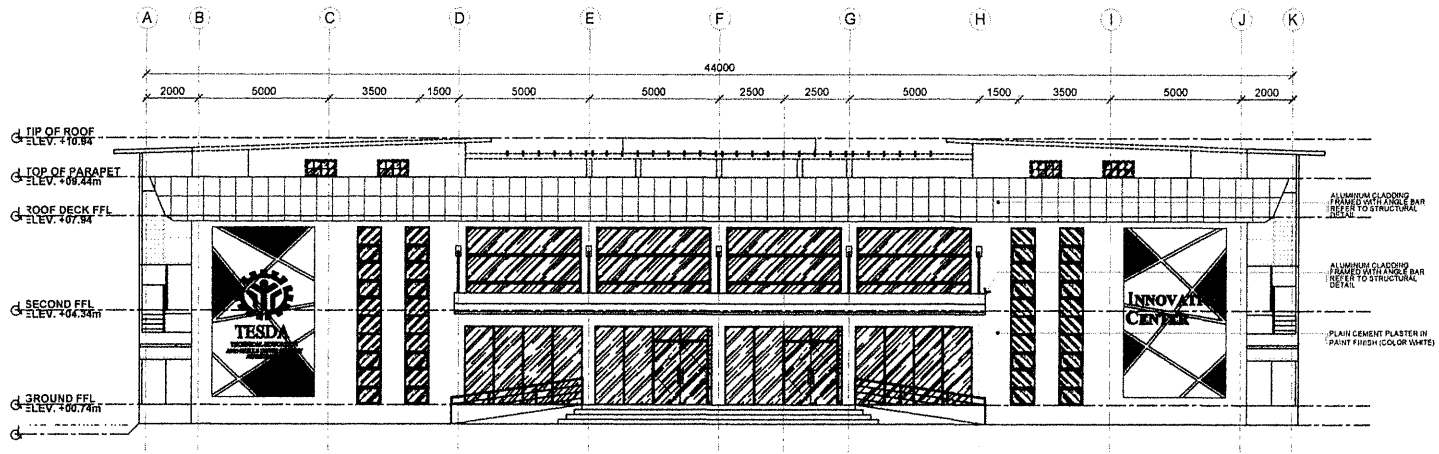
SHEET CONTENTS:
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SHEET NO.
 A-3

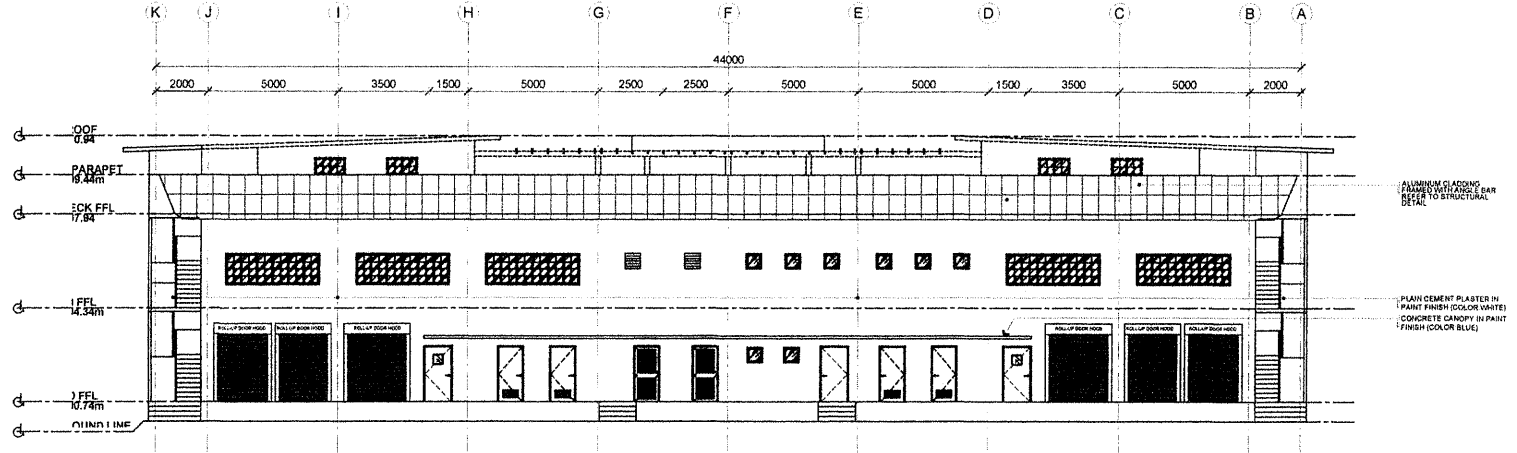


A
 TESDA INNOVATION CENTER - ISAT
PROPOSED ROOF PLAN
 SCALE 1:200MTS

 TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY	CONCURRED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE:	DRAWINGS AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS ARE THE PROPERTY OF THE PREPARED AND SOLELY DEVELOPMENT AUTHORITY. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING AND MAINTAINING THE DRAWINGS AND SPECIFICATIONS AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE DRAWINGS AND SPECIFICATIONS. NO PART OF THIS DRAWING 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 TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY.	CADD BY:	PREPARED BY:	REVIEWED BY:	SUBMITTED BY:	SHEET CONTENTS:	SHEET NO.
	 <small>DIR. DANILLO B. BUNGALLON EXECUTIVE DIRECTOR, ITESDO</small>	 <small>DIR. DANIEL D. OROZCO DIRECTOR IV AS CHIEF OF STAFF, SDO DIRECTOR IN CHARGE, SPU</small>	 <small>SEC. ISIDRO S. LAPENA, PH.D., CSEE DIRECTOR GENERAL TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</small>	PROPOSED TESDA INNOVATION CENTER - ISAT <small>LOCATION: Manila Road (F-4th and 3-rd) (TESDA ISAT) - Calabarzon, Manila City</small>	 <small>MS. GRACIE G. TEODORO CAD OPERATOR, SPU-DOO</small>	 <small>ARCH. CARLOS D. MANANGUIL ARCHITECT CONSULTANT</small>	 <small>ARCH. DANIEL A. MENDOZA ARCHITECT, SPU-DOO</small>	 <small>ENGR. ROY LOUIE P. MINGARACAL HEAD, SPU-DOO</small>	AS SHOWN	A-4	

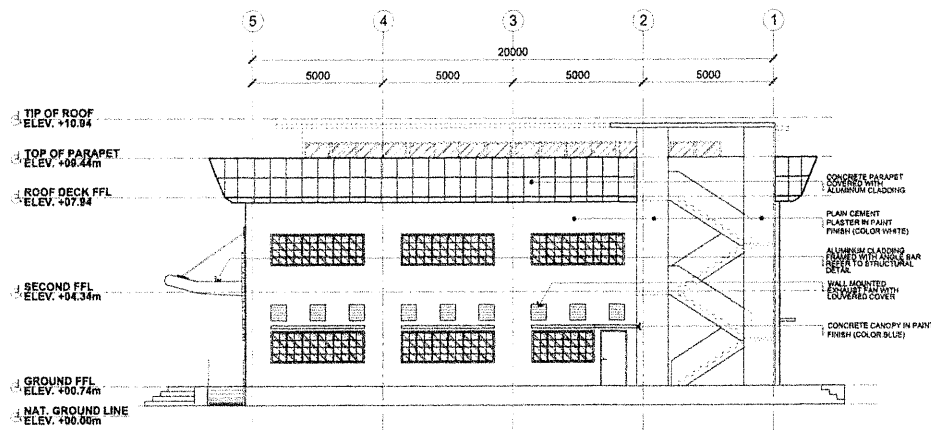


A
TESDA INNOVATION CENTER - ISAT
FRONT ELEVATION
 SCALE 1:200MTS

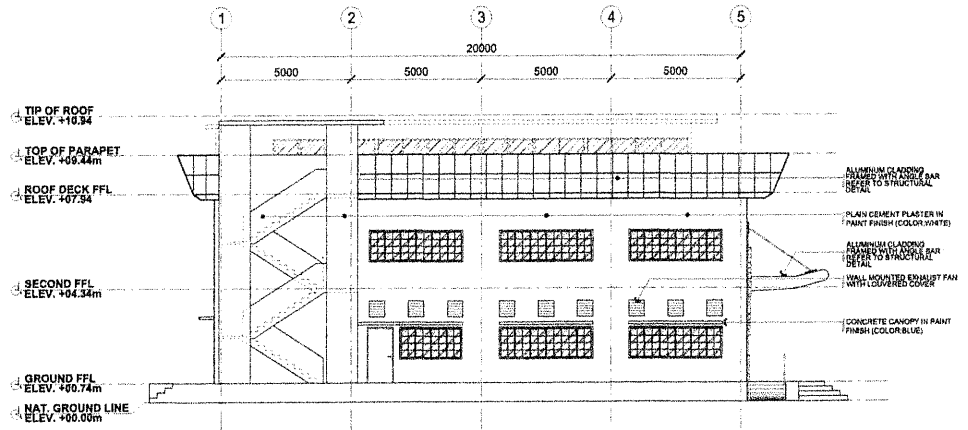


A
TESDA INNOVATION CENTER - ISAT
REAR ELEVATION
 SCALE 1:200MTS

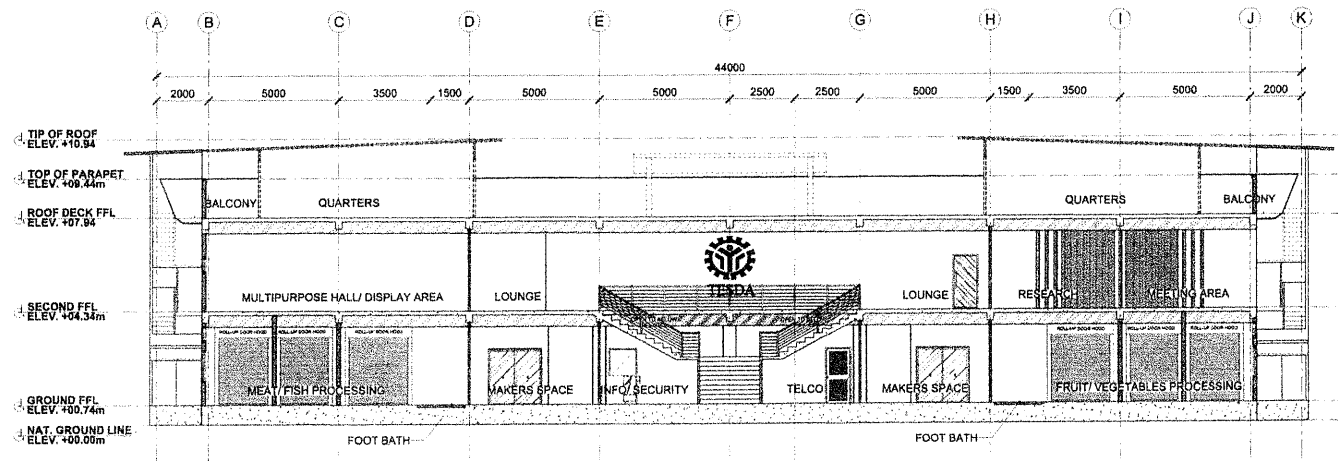
	CONCURRED BY: DIR. DAVID B. BUNALLION <small>EXECUTIVE DIRECTOR, NITSD</small>	RECOMMENDING APPROVAL: DIR. JANET S. OROZCO <small>DIRECTOR IN CHARGE CHIEF OF STAFF, CDS DIRECTOR IN CHARGE, SPU</small>	APPROVED BY: SEC. ISIDRO S. LAPENA, PH.D., CSEE <small>DIRECTOR GENERAL TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</small>	PROJECT TITLE: <p style="text-align: center;">PROPOSED TESDA INNOVATION CENTER - ISAT</p> <small>LOCATION: Inside Group of A66 and 1666 (TESDA-ISAT) Calatagan, Laguna City.</small>	CHANGES AND SPECIFICATIONS AND OTHER DETAILS SUBMITTED AND THE INTELLECTUAL PROPERTY AND RIGHTS DEVELOPMENT AND TRADING RIGHTS AND INTELLECTUAL PROPERTY RIGHTS SHALL BE TRANSFERRED TO ANY PERSON TO CONSULT OR TO THE GROUP OF A66 AND 1666 (TESDA-ISAT) FOR OTHER PROJECTS OF THE GROUP OF A66 AND 1666 (TESDA-ISAT) WHICH WOULD BE THE PROPERTY OF TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY.	CADD BY: MS. GRACIE C. TEODORO <small>CAD OPERATOR, SPU-CDS</small>	PREPARED BY: ARCH. CARLOS D. MANANQUIL <small>ARCHITECT CONSULTANT</small>	REVIEWED BY: ARCH. EUNICE A. MINDOSA <small>ARCHITECT-ENGINEER</small>	SUBMITTED BY: ENGR. ROY LOUIE P. MINGARACAL <small>PE, SPU-CDS</small>	SHEET CONTENTS: AS SHOWN	SHEET NO. <p style="text-align: center;">A-5</p>
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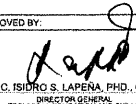




A TESDA INNOVATION CENTER - ISAT
RIGHT SIDE ELEVATION
 SCALE 1:200MTS

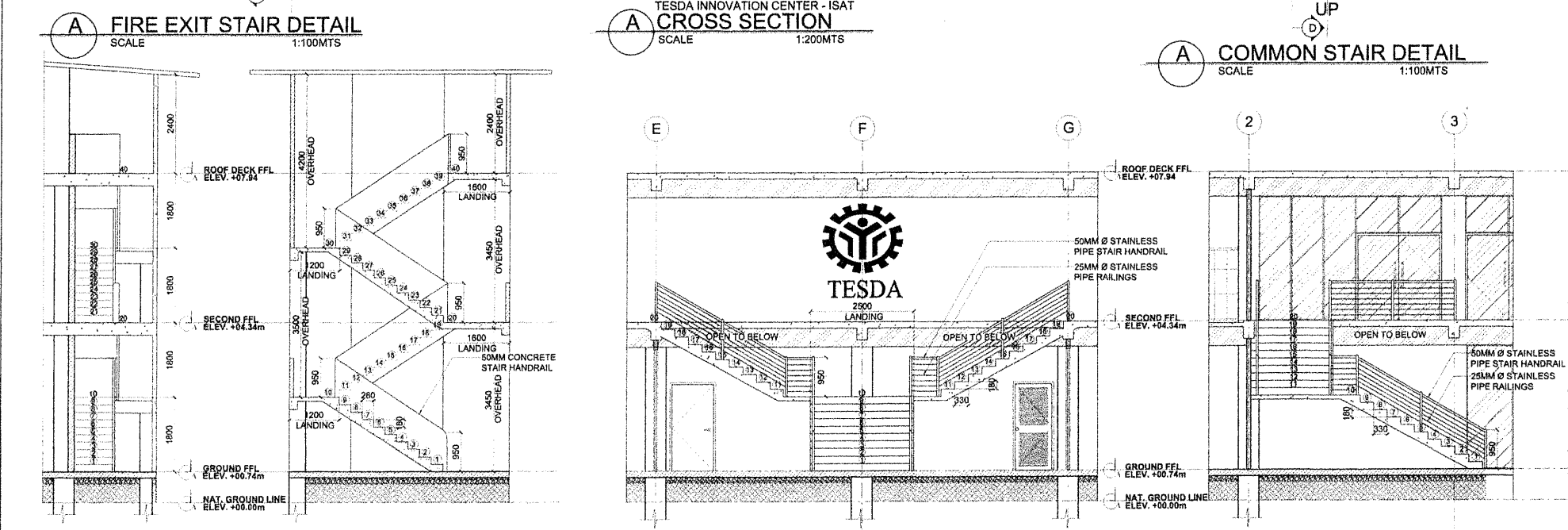
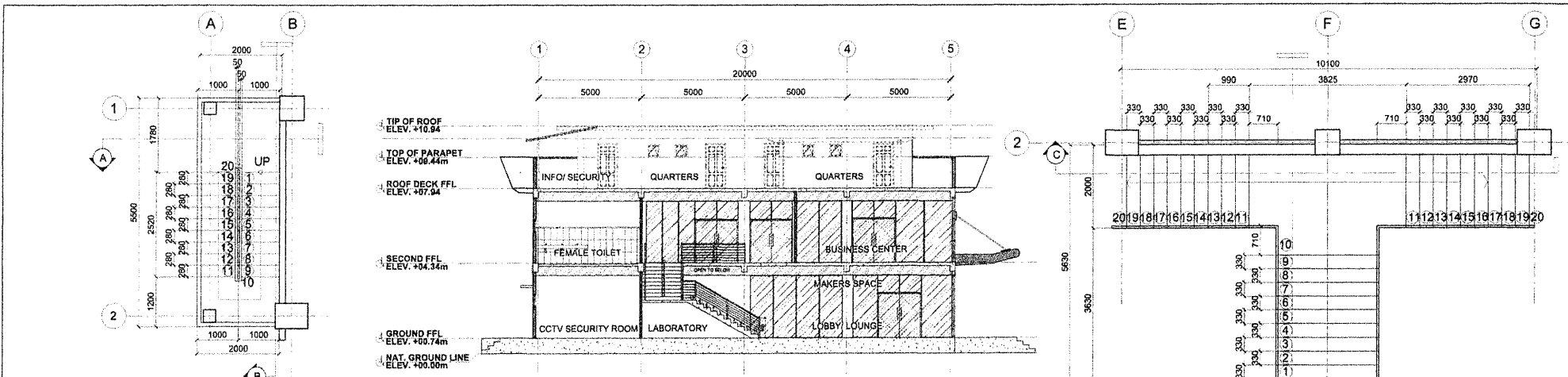


A TESDA INNOVATION CENTER - ISAT
LEFT SIDE ELEVATION
 SCALE 1:200MTS



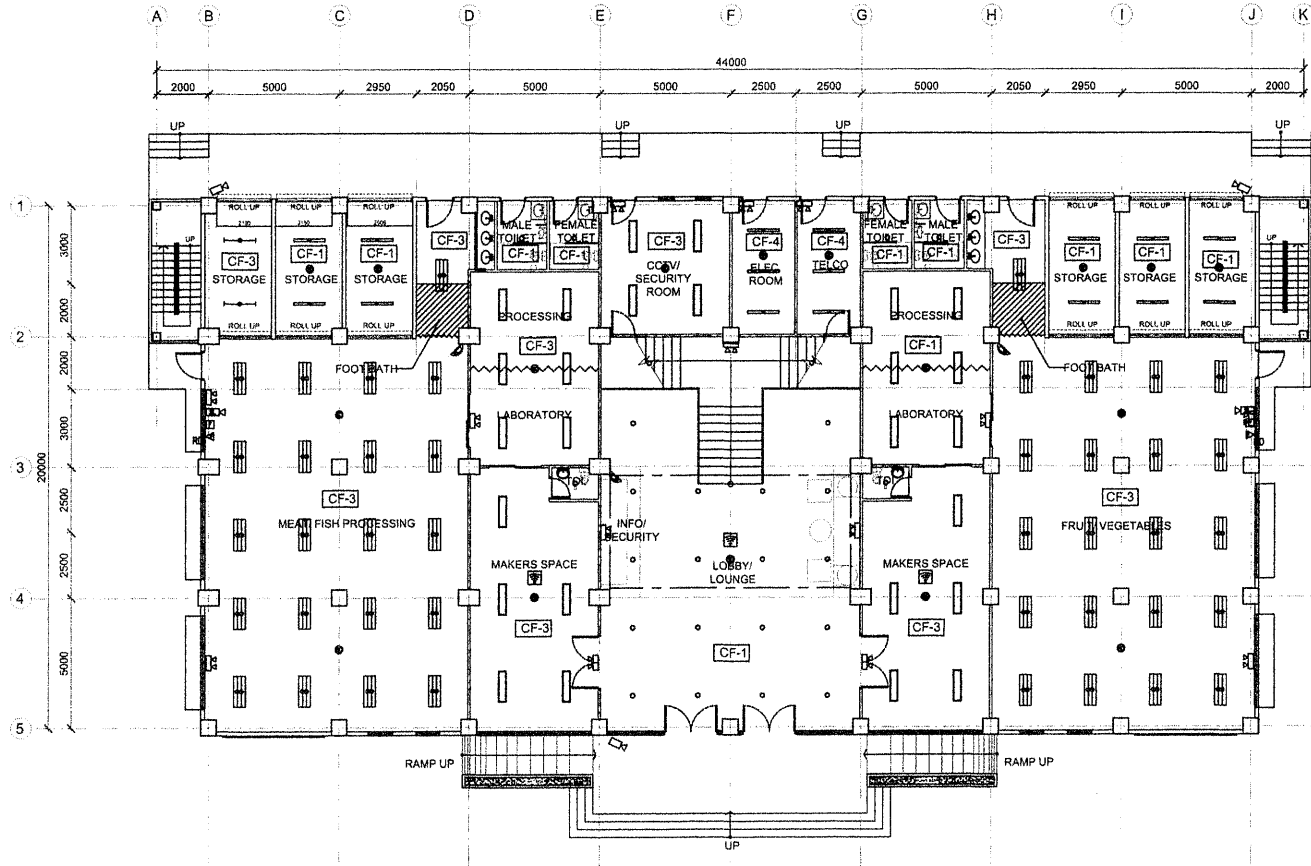
A TESDA INNOVATION CENTER - ISAT
LONGITUDINAL SECTION
 SCALE 1:200MTS

 TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY	CONCURRED BY:  DIR. DAVID B. BINGALLAN EXECUTIVE DIRECTOR-INTERED	RECOMMENDING APPROVAL:  DIR. JULIETTE BROZCO DIRECTOR FOR AS DIRECTORIAL OFFICE-SPU	APPROVED BY:  SEC. ISIDRO S. LAPENA, PH.D., CSEE DIRECTOR GENERAL TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY	PROJECT TITLE: PROPOSED TESDA INNOVATION CENTER - ISAT <small>LOCATION: Manila School of Arts and Trades (TESDA-ISAT), Calabarzon, Isabela City</small>	DRAWINGS AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS ARE THE PROPERTY OF THE EMPLOYER AND SHALL REMAIN HIS PROPERTY. ANY REPRODUCTION OR DISSEMINATION OF THESE DOCUMENTS WITHOUT THE WRITTEN CONSENT OF THE EMPLOYER IS STRICTLY PROHIBITED.	CADD BY:  MS. GRACIE C. TEODORO CAD OPERATOR-SPU-CCG	PREPARED BY:  ARCH. CARLOS D. MANANGUIL ARCHITECT CONSULTANT	REVIEWED BY:  ARCH. DANIEL MENDOZA ARCHITECT CONSULTANT	SUBMITTED BY:  ENGR. ROY LOUIE P. MINGARACAL HEAD-SPU-CCG	SHEET CONTENTS: AS SHOWN	SHEET NO. A-6
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<p>TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</p>	<p>CONCURRED BY:</p> DIR. DAVID B. BUNGALOON <small>EXECUTIVE DIRECTOR, NITSDO</small>	<p>RECOMMENDING APPROVAL:</p> DIR. JANET M. OROZCO <small>DEPUTY EXECUTIVE DIRECTOR, NITSDO</small>	<p>APPROVED BY:</p> SEC. SIDRO S. LAPERA, PH.D., CSEE <small>DIRECTOR GENERAL, TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</small>	<p>PROJECT TITLE:</p> <p>PROPOSED TESDA INNOVATION CENTER - ISAT</p> <p><small>USG/7001, National School of Arts and Trades, 1125DA-0471, Calabarzon, National City</small></p>	<p>DESIGNER AND MODIFICATIONS AND OTHER CONTRACT DOCUMENTS ARE THE PROPERTY OF TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY AND SHALL REMAIN THE PROPERTY OF THE AUTHORITY. ANY REVISIONS TO THE CONTRACT DOCUMENTS FOR USE IN THE PROJECTS OF BARANGAY MEMBERS SHOULD BE APPROVED BY THE AUTHORITY. TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</p>	<p>CADD BY:</p> MS. GRACIE C. TEODORO <small>CAD OPERATOR, SPV-003</small>	<p>PREPARED BY:</p> ARCA CARLOS D. MANANQUIL <small>ARCHITECT CONSULTANT</small>	<p>REVIEWED BY:</p> ARCA RANIEL A. MENDOZA <small>ARCHITECT, SPV-003</small>	<p>SUBMITTED BY:</p> ENGR. ROY LOUIS P. MINGARACAL <small>HEAD, SPV-003</small>	<p>SHEET CONTENTS:</p> <p>AS SHOWN</p>	<p>SHEET NO.</p> <p>A-7</p>
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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	8W EXIT LIGHT WITH 2HRS BATTERY PACK
EM	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	RISER UP/DOWN
⊙	JUNCTION BOX (CONCEALED LIGHTING PROMOTION/TAPPING POINT)
CF-1	4.5MM THK HARDPLEX DTL WITH METAL DOUBLE FURRING CHANNEL (WALLS) 12mm x 38 mm x 5m X 0.60mm THK, 400mm O.C.
CF-2	12mm THK ACOUSTIC BOARD WITH METAL DOUBLE FURRING CHANNEL (WALLS) 12mm x 38mm x 5m X 0.60mm THK, 400mm O.C.
CF-3	PAINTED OPEN CEILING/ EXPOSE SLAB
CF-4	OPEN CEILING/SLAB



A
TESDA INNOVATION CENTER - ISAT
PROPOSED GROUND FLOOR REFLECTED CEILING PLAN
 SCALE 1:200MTS



CONCURRED BY:
 DIR. DAVIC B. BUNGALLON
 EXECUTIVE DIRECTOR, NTESD

RECOMMENDING APPROVAL:
 DIR. JUANITO S. DOROZCO
 DIRECTOR IV, AG
 CHIEF OF STAFF, DDC
 DIRECTOR-IN-CHARGE, SPU

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

PROJECT TITLE:
 PROPOSED TESDA
 INNOVATION CENTER - ISAT

DESIGN AND EXECUTION AND OTHER CONTRACT DOCUMENTS ARE THE PROPERTY OF PREPARED AND AGREEMENT OF REVISION, EDUCATION AND SKILLS DEVELOPMENT AUTHORITY AND SHALL BE RETURNED TO THE AUTHORITY AND MADE AVAILABLE TO THE AUTHORITY. THIS AGREEMENT IS VALID FOR ANY REVISION TO BE MADE UP TO THE DATE OF THE SIGNATURE OF THE ARCHITECT AND FOR OTHER REVISIONS OF REVISION, WHETHER EXECUTED PARTLY OR IN WHOLE WITHOUT THE WRITTEN CONSENT OF TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY.

CADD BY:
 MS. GRACIE C. TEODORO
 CAD OPERATOR, SPU-DOO

PREPARED BY:
 ARCH. CARLOS D. MANANQUIR
 ARCHITECT CONSULTANT

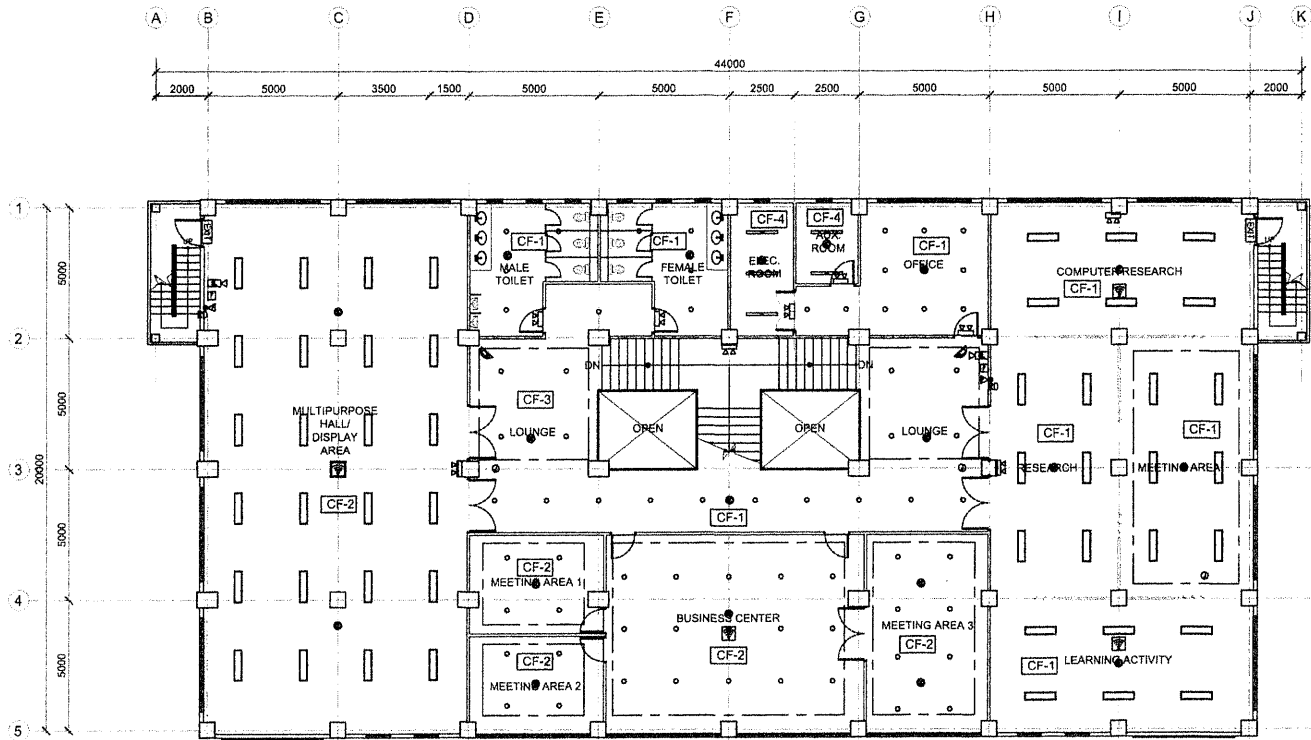
REVIEWED BY:
 ARCH. KUNIELO MENDOZA
 ARCHITECT LEAD, SPU-DOO

SUBMITTED BY:
 ENGR. ROY LOUIE P. MINGARACAL
 HEAD, BPP-DOO


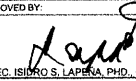


SHEET CONTENTS:
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SHEET NO.
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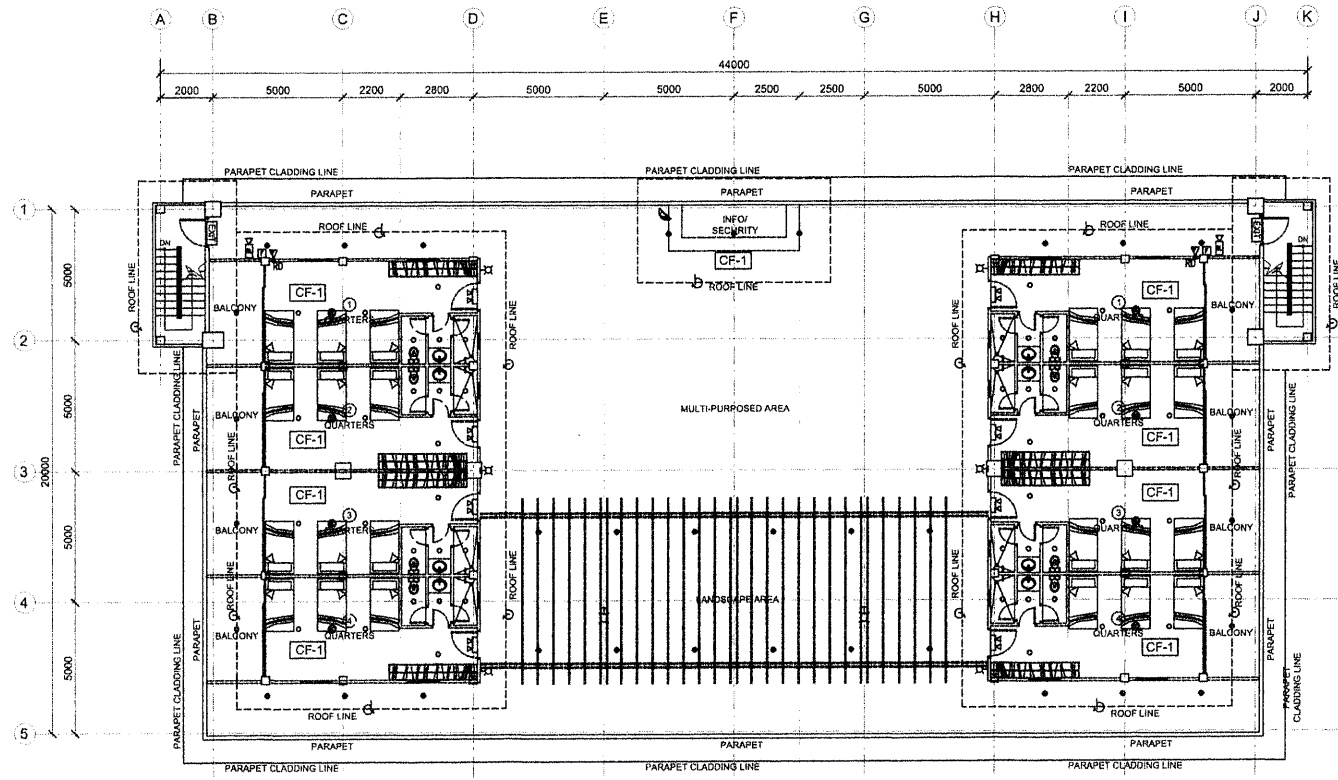
LEGENDS AND SYMBOLS	
○	RECESSED MOUNTED, 13W LED DOWNLIGHT
●	SURFACE MOUNTED, 13W LED DOWNLIGHT
⌊	WALL MOUNTED, 13W LED DOWNLIGHT
— —	SURFACE MOUNTED, 1200mm, 20W WEATHERPROOF LED FLUORESCENT LIGHT
— —	SURFACE MOUNTED, 1200mm, 20W LED FLUORESCENT LIGHT
— —	2x20W, 300mmx1200mm, CEILING RECESSED FLUORESCENT LIGHTING FIXTURE
— —	2x20W, 300mmx1200mm, DUST TIGHT FLUORESCENT LIGHTING FIXTURE
EXIT	8W 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)
CF-1	4.5MM THK. HARDLITE LITE WITH METAL DOUBLE FLOORING CHANNEL (NAHLER) 12mm x 38 mm x 5m x 0.80mm THK. @ 400mm O.C.
CF-2	12mm THK. ACOUSTIC BOARD WITH METAL DOUBLE FLOORING CHANNEL (NAHLER) 12mm x 38mm x 5m x 0.80mm THK. @ 400mm O.C.
CF-3	PAINTED OPEN CEILING/ EXPOSE SLAB
CF-4	OPEN CEILING/SLAB



A TESDA INNOVATION CENTER - ISAT
PROPOSED SECOND FLOOR REFLECTED CEILING PLAN
 SCALE 1:200MTS

 <p>TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</p>	CONCURRED BY:  DIR. DAVID B. BUNGALLON EXECUTIVE DIRECTOR, NITSDO	RECOMMENDING APPROVAL:  DIR. JULIAN OROZCO DIRECTOR IV AS CHIEF OF STAFF, DDO DIRECTOR IN CHARGE, SPU	APPROVED BY:  SEC. ISIDRO S. LAPENA, PHD., CSEE DIRECTOR GENERAL TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY	PROJECT TITLE: <p style="text-align: center;">PROPOSED TESDA INNOVATION CENTER - ISAT</p>	DRAFTER AND SPECIFICATIONS AND OTHER GOVERNMENT DOCUMENTS AND INTELLECTUAL PROPERTY AND DOCUMENTS OF TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY UNDER THE DIRECTOR IN CHARGE THIS AND MADE IN ACCORDANCE WITH THE SMALL BUSINESS ENTERPRISE DEVELOPMENT ACT (R.A. 5913) AND OTHER APPLICABLE LAWS, DECREES, ORDINANCES, REGULATIONS, AND POLICIES OF THE REPUBLIC OF THE PHILIPPINES. PROJECT OF HEADQUARTERS, DIRECTOR GENERAL OFFICE, TESDA 1004-1006, NLEX Road of Alabang, Muntinlupa City, Philippines	CADD BY:  MS. GRACIE C. TEODORO CAD OPERATOR SPU-DGG	PREPARED BY:  ARCH. CARLOS D. MANANDOUIL ARCHITECT CONSULTANT	REVIEWED BY:  ARCH. DANIEL N. MENDOZA ARCHITECT SPU-DGG	SUBMITTED BY:  ENGR. ROY ISIDRE P. MINGARACAL HEAD, SPU-DGG	SHEET CONTENTS: AS SHOWN	SHEET NO. <p style="text-align: center;">A-9</p>
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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	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	RISER UP/DOWN
⊙	JUNCTION BOX (CONCEALED LIGHTING PROMISION/TAPPING POINT)
CF-1	4.5MM THK. HARDPLEX LITE WITH METAL DOUBLE FURRING CHANNEL (NAILED) 12mm x 38 mm x 5m X 0.80mm THK. 400mm O.C.
CF-2	12mm THK. ACOUSTIC BOARD WITH METAL DOUBLE FURRING CHANNEL (NAILED) 12mm x 38mm x 5m X 0.80mm THK. 400mm O.C.
CF-3	PAINTEG OPEN CEILING/ EXPOSE SLAB
CF-4	OPEN CEILING/SLAB



A
TESDA INNOVATION CENTER - ISAT
PROPOSED ROOF DECK REFLECTED CEILING PLAN
 SCALE 1:200MTS



CONCURRED BY:

 DIR. DAVID B. BUNCALLAN
 EXECUTIVE DIRECTOR, NITECO

RECOMMENDING APPROVAL:

 DIR. JIL L. OROZCO
 DIRECTOR GENERAL
 CHIEF OF STAFF, DGG
 DIRECTOR IN CHARGE, EPU

APPROVED BY:

 SEC. ISIDRO S. LARENA, PhD, CSEE
 DIRECTOR GENERAL
 TECHNICAL EDUCATION AND SKILLS
 DEVELOPMENT AUTHORITY

PROJECT TITLE:
**PROPOSED TESDA
 INNOVATION CENTER - ISAT**
LOCATION: Inside School of Arts and Trades (ISAT), Calatagan, Isabela City

CADDED AND SPECIFICATION AND
 DEVELOPMENT OF THE PROJECT AND
 DOCUMENTS OF TECHNICAL EDUCATION
 AND SKILLS DEVELOPMENT AUTHORITY
 WHETHER THE OBJECT FOR WHICH THE
 PLAN IS MADE IS PROVIDED OR NOT, I
 SHALL BE RESPONSIBLE FOR ANY ERROR
 TO PRODUCE OR TO MAKE CORRECT
 REVISIONS OF ANY KIND OTHER
 THAN THE ORIGINAL CONTENTS OF
 THE PROJECT DRAWING.
 MS. GRACIE C. TEODORO
 CAD OPERATOR, SPU-DGG

PREPARED BY:

 ARNEL CARLOS D. MANANQUIL
 ARCHITECT CONSULTANT

REVIEWED BY:

 ARNEL DANIEL A. MENDOZA
 ARCHITECT CONSULTANT

SUBMITTED BY:

 ENGR. ROY LOUIE P. MINGARACAL
 HEAD OF DGG

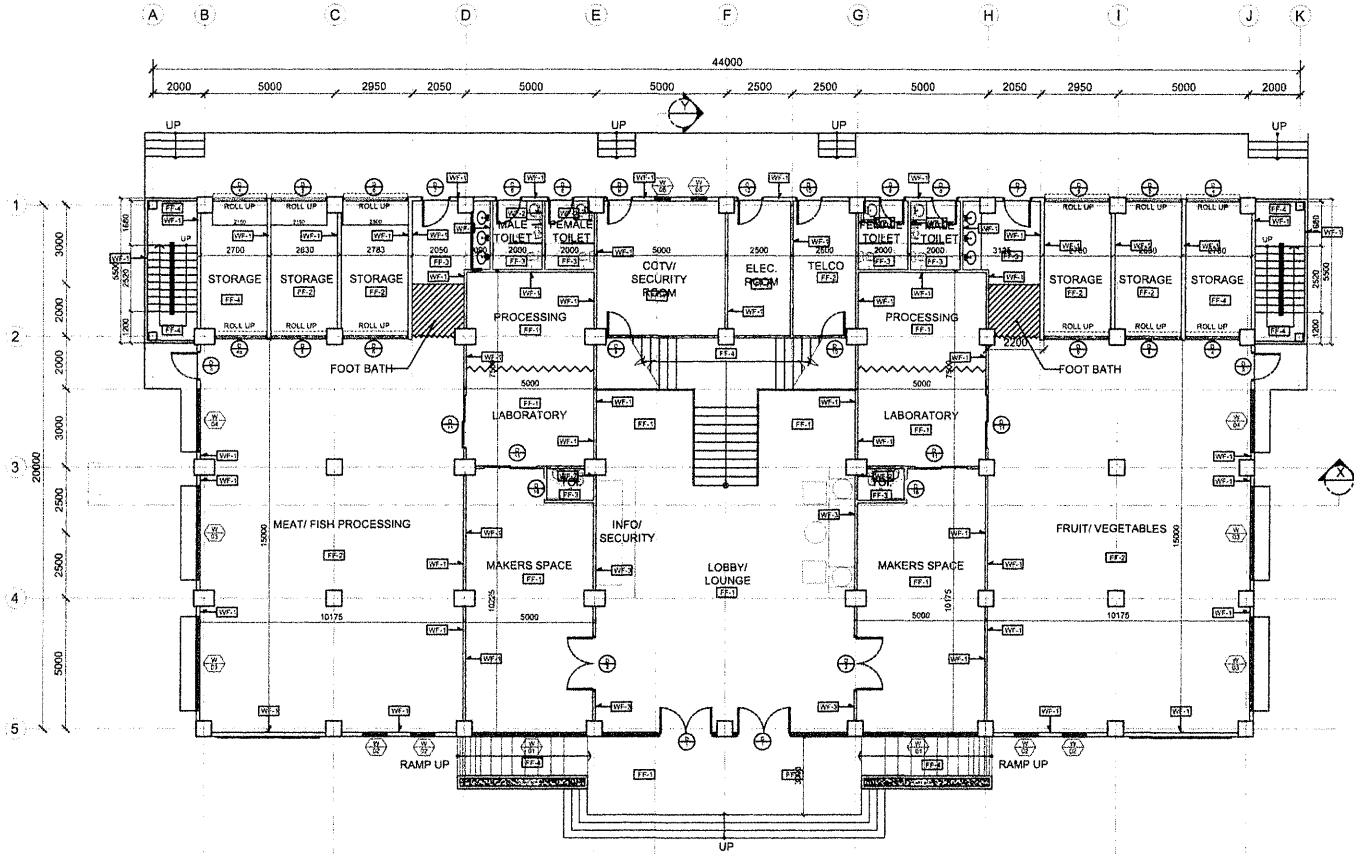
SHEET CONTENTS: AS SHOWN
 SHEET NO. **A-10**

WALL FINISHES

WF-1	PLAIN CEMENT PLASTER IN PAINT FINISH
WF-2	300MM X 600MM GLAZED WALL TILES (HEIGHT 1.80 M)
WF-3	10MM CLEAR TEMPERED GLASS COSTUME SIZE

FLOOR FINISHES

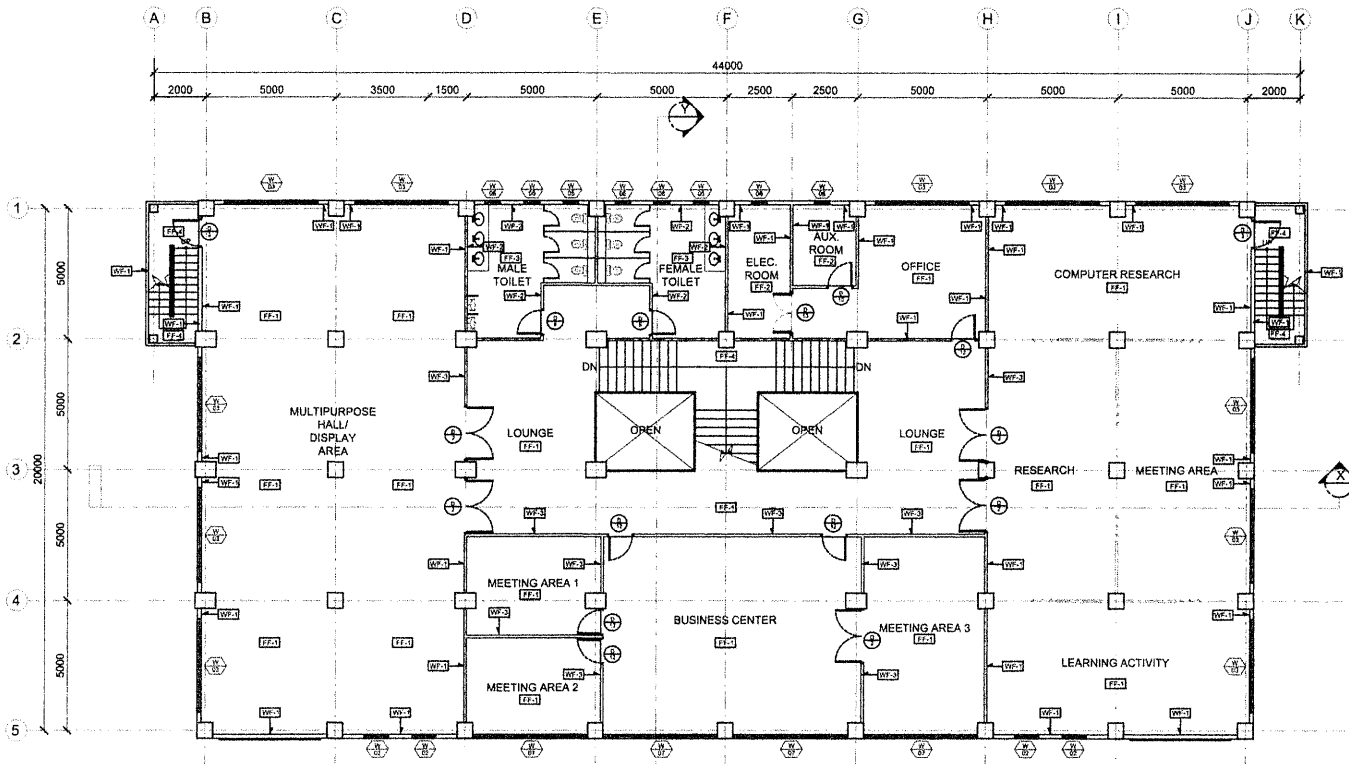
FF-1	600 MM X 600 MM NON SKID TILES (COLOR: PORCELAIN WHITE)
FF-2	PLAIN CEMENT FINISH IN EPOXY PRIMER (COLOR: GRAY)
FF-3	300MM X 300MM NON SKID TILES (DESIGN AND COLOR AS PER APPROVED)
FF-4	STAMP CONCRETE/CONC. FINISH
FF-5	300MM X 300MM VINYL TILES (COLOR AND DESIGN AS PER APPROVED)



A
TESDA INNOVATION CENTER - ISAT
GROUND FLOOR - WALL AND FLOOR FINISHES
 SCALE 1:200MTS

<p>TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</p>	CONCURRED BY: DIR. DAVID B. BUNGALLON <small>EXECUTIVE DIRECTOR INTESO</small>	RECOMMENDING APPROVAL: DIR. RENATO OROZCO <small>DIRECTOR IV, AS CHIEF OF OFFICE AND CHIEF OF CENTER, EPU</small>	APPROVED BY: SEC. ISIDORO S. LAPESA, PH.D., CSEE <small>DIRECTOR GENERAL TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</small>	PROJECT TITLE: <p style="text-align: center;">PROPOSED TESDA INNOVATION CENTER - ISAT</p> <small>1524-709, National Center of Arts and Trades (NCAT-ISAT), Calabarzon, Industrial City</small>	CADD BY: MS. GRACIE C. TEODORO <small>CAD OPERATOR, SP4-GDD</small>	PREPARED BY: ARCA CARLOS D. MANINGQUIL <small>ARCHITECT CONSULTANT</small>	REVIEWED BY: ARCA RANIEL A. MENDOZA <small>ARCHITECT (SP-10)</small>	SUBMITTED BY: ENGR. ROY LOUIE M. MINGARACAL <small>IND. GPU-102</small>	SHEET CONTENTS: AS SHOWN	SHEET NO. <p style="text-align: center;">A-11</p>
	DRAWINGS AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS ARE THE PROPERTY OF THE PROJECT AND DEVELOPMENT AUTHORITY AND SHALL DEVELOPMENT AUTHORITY AND THE CONTRACT FOR THE PROJECT. NO PART OF THIS DRAWING OR SPECIFICATION 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 CONSENT OF THE PROJECT DEVELOPMENT AUTHORITY.									

WALL FINISHES	
WF-1	PLAIN CEMENT PLASTER IN PAINT FINISH
WF-2	300MM X 600MM GLAZED WALL TILES (HEIGHT 1.80 M)
WF-3	10MM CLEAR TEMPERED GLASS COSTUME SIZE
FLOOR FINISHES	
FF-1	600 MM X 600 MM NON SKID TILES (COLOR: PORCELAIN WHITE)
FF-2	PLAIN CEMENT FINISH IN EPOXY PRIMER (COLOR: GRAY)
FF-3	300MM X 300MM NON SKID TILES (DESIGN AND COLOR AS PER APPROVED)
FF-4	STAMP CONCRETE/CONC. FINISH
FF-5	300MM X 300MM VINYL TILES (COLOR AND DESIGN AS PER APPROVED)



A
 TESDA INNOVATION CENTER - ISAT
SECOND FLOOR - WALL AND FLOOR FINISHES
 SCALE 1:200MTS



TECHNICAL EDUCATION
 AND
 SKILLS DEVELOPMENT
 AUTHORITY

CONCURRED BY:

 DIR. DAVID B. BUALGALLON
 EXECUTIVE DIRECTOR, NITEDS

RECOMMENDING APPROVAL:

 DIR. JULIET G. GROZCO
 DIRECTOR GENERAL
 OFFICE OF STAFF, SDC
 DIRECTOR-IN-CHARGE, SDC

APPROVED BY:

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

PROJECT TITLE:
 PROPOSED TESDA
 INNOVATION CENTER - ISAT
LOCATION: Barangay Sibuyan, Marikina City, Metro Manila

DESIGNS AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS ARE THE INTELLECTUAL PROPERTY AND DESIGN OF THE ARCHITECT AND CONSULTANT. ANY REPRODUCTION OR DISSEMINATION OF THESE DOCUMENTS WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT AND CONSULTANT SHALL BE UNLAWFUL FOR ANY PERSON OR ENTITY. THIS AGREEMENT SHALL BE VALID AND ENFORCEABLE IN ANY JURISDICTION.

CADD BY:

 MS. GRACIE C. TEODORO
 CAD OPERATOR, SPU/ODG

PREPARED BY:

 ARCH. CARLOS D. MANANQUIL
 ARCHITECT CONSULTANT

REVIEWED BY:

 ARCH. FANIEL A. MENDOZA
 ARCHITECT, SPU/ODG

SUBMITTED BY:

 ENGR. REY LOPE P. MINGARACAL
 LEAD, SPU/ODG

SHEET CONTENTS:
 AS SHOWN

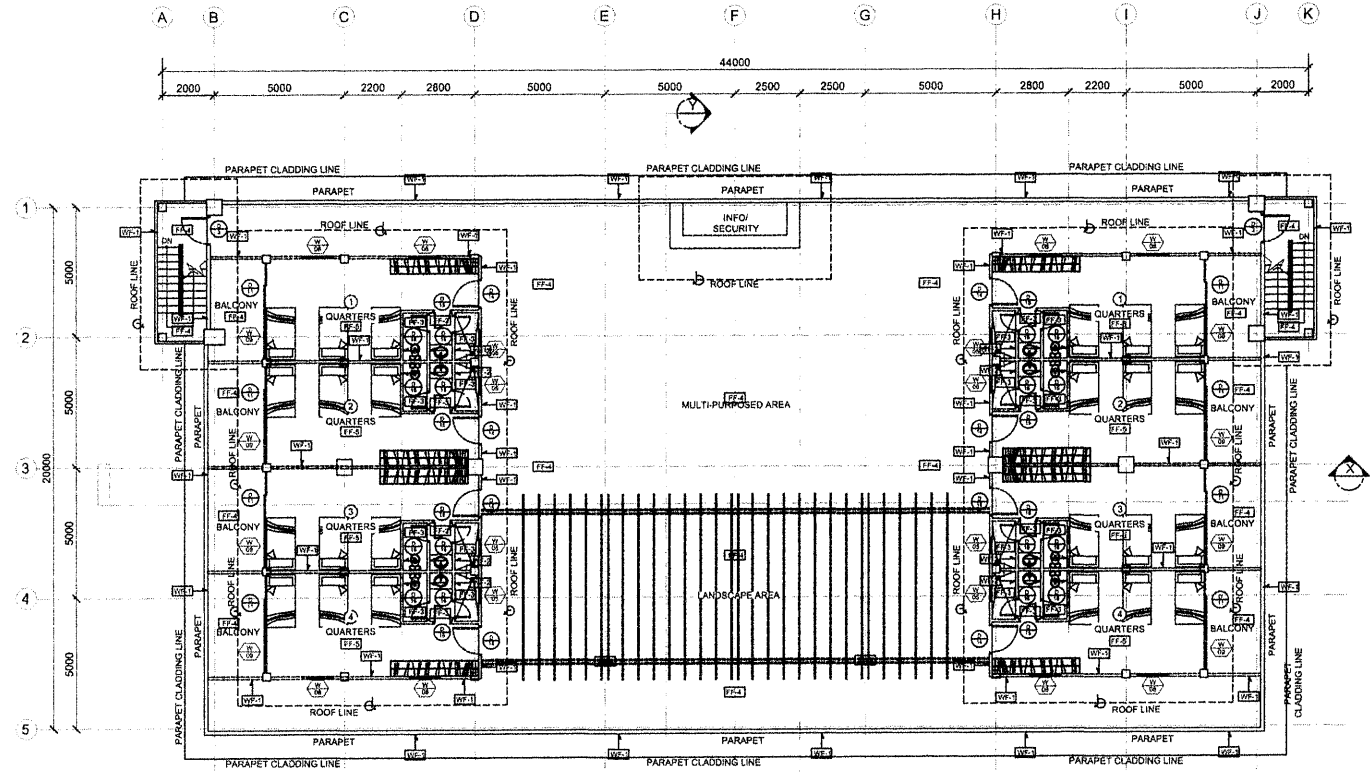
SHEET NO.
A-12

WALL FINISHES

WF-1	PLAIN CEMENT PLASTER IN PAINT FINISH
WF-2	300MM X 600MM GLAZED WALL TILES (HEIGHT 1.80 M)
WF-3	10MM CLEAR TEMPERED GLASS COSTUME SIZE

FLOOR FINISHES

FF-1	600 MM X 600 MM NON SKID TILES (COLOR: PORCELAIN WHITE)
FF-2	PLAIN CEMENT FINISH IN EPOXY PRIMER (COLOR: GRAY)
FF-3	300MM X 300MM NON SKID TILES (DESIGN AND COLOR AS PER APPROVED)
FF-4	STAMP CONCRETE/CONC. FINISH
FF-5	300MM X 300MM VINYL TILES (COLOR AND DESIGN AS PER APPROVED)



TESDA INNOVATION CENTER - ISAT
ROOF DECK - WALL AND FLOOR FINISHES
 SCALE 1:200MTS



CONCURRED BY:
 DIR. DAVID B. BUNGALON
 EXECUTIVE DIRECTOR, NITEDO

RECOMMENDING APPROVAL:
 DIR. JUAN P. GORZOCO
 DIRECTOR GENERAL,
 CHIEF OF STAFF, CDD
 DIRECTOR IN CHARGE, SPU

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

PROJECT TITLE:
 PROPOSED TESDA
 INNOVATION CENTER - ISAT
 LOCATION: Heald Street of Aray, Inc. - Talus (TESDA ISAT) - Calapan, Tawi-Tawi City

DRAWINGS AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS ARE THE INTELLECTUAL PROPERTY AND SOLEBARS OF TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY AND SHALL BE KEPT IN STRICT CONFIDENCE. ANY REPRODUCTION OR DISSEMINATION WITHOUT THE WRITTEN PERMISSION OF THE AUTHORITY IS STRICTLY PROHIBITED. THIS DRAWING IS THE PROPERTY OF THE AUTHORITY AND SHALL REMAIN THE PROPERTY OF THE AUTHORITY. ANY REPRODUCTION OR DISSEMINATION WITHOUT THE WRITTEN PERMISSION OF THE AUTHORITY IS STRICTLY PROHIBITED.

CADD BY:
 MS. GRACIE C. TEODORO
 CAD OPERATOR, SPU-CDD

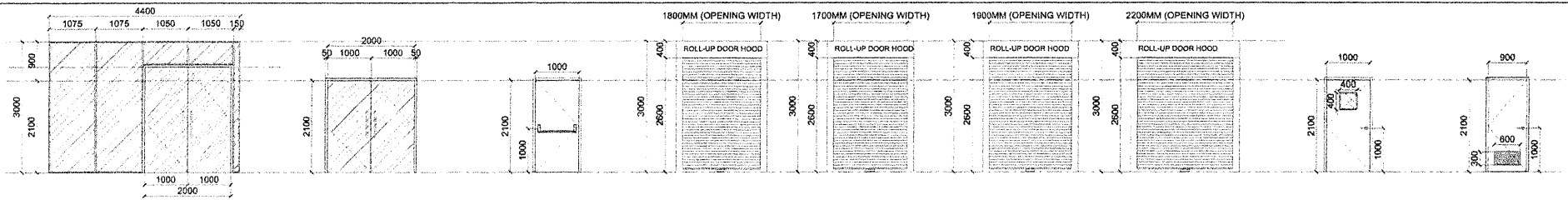
PREPARED BY:
 ARCH. CARLOS D. MANANQUI
 ARCHITECT CONSULTANT

REVIEWED BY:
 ARCH. RINELA A. MENDOZA
 ARCHITECT, SPU-CDD

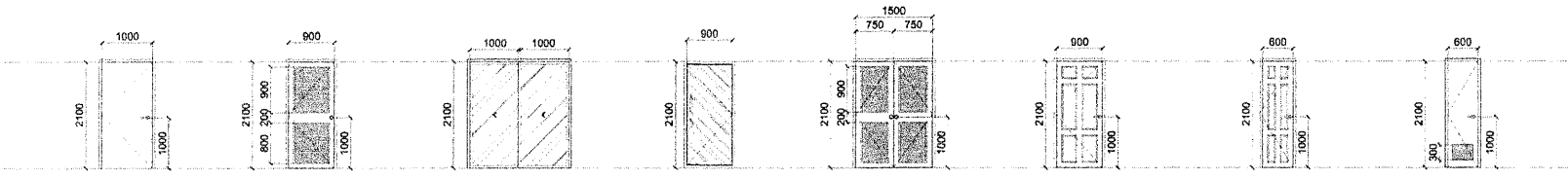
SUBMITTED BY:
 ENGR. ROY LOUISE MINGARACAL
 LEAD SPU-CDD

SHEET CONTENTS:
 AS SHOWN

SHEET NO.
 A-13

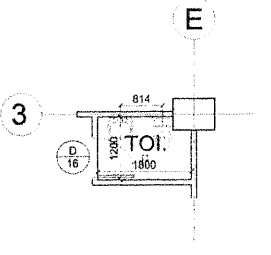


SCHEDULE	D 01	SCHEDULE	D 02	SCHEDULE	D 03	SCHEDULE	D 04	SCHEDULE	D 04a	SCHEDULE	D 05	SCHEDULE	D 06	SCHEDULE	D 07	SCHEDULE	D 08				
LOCATION:	ENTRY	LOCATION:	HAWKINS BRACE MULTIPURPOSE HALL, DISPLAY AREA, RESEARCH MEETING AREA, COMPUTER RESEARCH & LEARNING ACTIVITY	LOCATION:	FIRE EXIT	LOCATION:	SMOKE HOUSE	LOCATION:	SMOKE HOUSE	LOCATION:	SMOKE HOUSE	LOCATION:	STORAGE	LOCATION:	STORAGE	LOCATION:	REAR SIDE ENTRY	LOCATION:	MALE AND FEMALE TOILET		
DIMENSION:		DIMENSION:	2000mm X 2100mm	DIMENSION:	1000mm X 2100mm	DIMENSION:	1800mm X 2600mm	DIMENSION:	1700mm X 2600mm	DIMENSION:	1800mm X 2600mm	DIMENSION:	2200mm X 2600mm	DIMENSION:	1000mm X 2100mm	DIMENSION:	800mm X 2100mm	DIMENSION:	800mm X 2100mm		
DESCRIPTION:	DOUBLE SWING GLASS DOOR FRAMED W/ METAL FITTINGS, SWGL LEAK, W/ RIM MORTISE LOCK SET AND GLASS DOOR CHHANDLE	DESCRIPTION:	DOUBLE SWING DOOR, 12mm THK GLASS (COLOR: TEGDA BLUE), METAL FITTINGS FOR HINGES AND D-TYPE HANDLE 800mm LENGTH AND MORTISE LOCK SET	DESCRIPTION:	SINGLE SWING PRE-FABRICATED STEEL DOOR TYP. HINGED DOOR ON 80 X 150mm METAL JAMB W/ INTUMESCENT STRIP COLO SMOKE SEAL, W/ PANIC DOOR BAR	DESCRIPTION:	STEEL ROLL-UP GARAGE DOOR	DESCRIPTION:	STEEL ROLL-UP GARAGE DOOR	DESCRIPTION:	STEEL ROLL-UP GARAGE DOOR	DESCRIPTION:	STEEL ROLL-UP GARAGE DOOR	DESCRIPTION:	STEEL ROLL-UP GARAGE DOOR	DESCRIPTION:	1" HOLLOW CORE METAL FLUSH TYPE SWINGING DOOR W/ 200mm RIM VIEW WINDOW ON 6mm THK CLEAR GLASS, PROVIDE W/ COMPLETE HARDWARE ACCESSORIES	DESCRIPTION:	800mm SWING UPVC FLUSH DOOR TYP. HINGED DOOR ON 80 X 150mm UPVC JAMB FRAME W/TH LEVER TYPE HANDLE & LOCK SET	DESCRIPTION:	800mm SWING UPVC FLUSH DOOR TYP. HINGED DOOR ON 80 X 150mm UPVC JAMB FRAME W/TH LEVER TYPE HANDLE & LOCK SET
NO OF SET:	2 SETS	NO OF SET:	2 SETS	NO OF SET:	6 SETS	NO OF SET:	3 SETS	NO OF SET:	1 SET	NO OF SET:	4 SETS	NO OF SET:	4 SETS	NO OF SET:	2 SETS	NO OF SET:	8 SETS	NO OF SET:	8 SETS		



SCHEDULE	D 09	SCHEDULE	D 10	SCHEDULE	D 11	SCHEDULE	D 12	SCHEDULE	D 13	SCHEDULE	D 14	SCHEDULE	D 15	SCHEDULE	D 16		
LOCATION:	CCTV ROOM	LOCATION:	ELECTRICAL ROOM, FELCO AIR ROOM	LOCATION:	LABORATORY, PROCESSING	LOCATION:	OFFICE	LOCATION:	OFFICE	LOCATION:	QUARTERS	LOCATION:	TOILET QUARTERS	LOCATION:	TOILET QUARTERS		
DIMENSION:	1000mm X 2100mm	DIMENSION:	600mm X 2100mm	DIMENSION:	2000mm X 2100mm	DIMENSION:	900mm X 2100mm	DIMENSION:	1500mm X 2100mm	DIMENSION:	600mm X 2100mm	DIMENSION:	600mm X 2100mm	DIMENSION:	600mm X 2100mm		
DESCRIPTION:	HOLLOW CORE METAL FLUSH TYPE SWINGING DOOR, PROVIDE W/ COMPLETE HARDWARE	DESCRIPTION:	SINGLE SWING PANEL OULVERED DOOR W/ TYP. HINGED DOOR ON 80 X 150mm METAL JAMB FRAME W/ HINGED PRIVACY RING TYPE LOCK SETS	DESCRIPTION:	DOUBLE SWING DOOR 12mm THK GLASS (COLOR: TEGDA BLUE), METAL FITTINGS FOR HINGES AND D-TYPE HANDLE 800mm LENGTH AND MORTISE LOCK SET	DESCRIPTION:	SINGLE SWING GLASS DOOR FRAMED W/ METAL FITTINGS, SINGLE LEAF, W/ RIM MORTISE LOCK SET AND GLASS DOOR CHHANDLE	DESCRIPTION:	DOUBLE SWING PANEL OULVERED DOOR W/ TYP. HINGED DOOR ON 80 X 150mm METAL JAMB FRAME W/ KEVED PRIVACY KNOB TYPE LOCK SETS	DESCRIPTION:	DOUBLE SWING LEAF PANEL DOOR W/ TYP. HINGED DOOR ON 80 X 150mm WOOD JAMB FRAME W/ LEVER TYPE HANDLE & LOCK SET	DESCRIPTION:	DOUBLE SWING LEAF PANEL DOOR W/ TYP. HINGED DOOR ON 80 X 150mm WOOD JAMB FRAME W/ LEVER TYPE HANDLE & LOCK SET	DESCRIPTION:	DOUBLE SWING UPVC FLUSH DOOR TYP. HINGED DOOR ON 80 X 150mm PVC JAMB FRAME W/TH LEVER TYPE HANDLE & LOCK SET	DESCRIPTION:	DOUBLE SWING UPVC FLUSH DOOR TYP. HINGED DOOR ON 80 X 150mm PVC JAMB FRAME W/TH LEVER TYPE HANDLE & LOCK SET
NO OF SET:	3 SET	NO OF SET:	3 SETS	NO OF SET:	12 SETS	NO OF SET:	5 SETS	NO OF SET:	1 SET	NO OF SET:	5 SETS	NO OF SET:	8 SETS	NO OF SET:	10 SETS		

A TESDA INNOVATION CENTER - ISAT
SCHEDULE OF DOORS
 SCALE: 1:100MTS

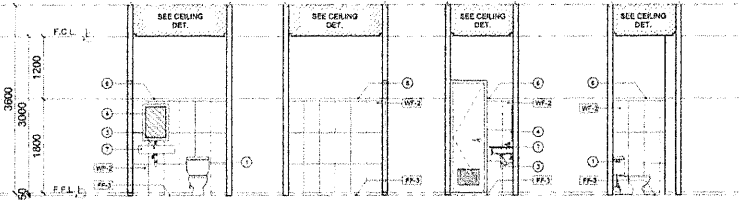


TOILET LEGENDS:

1	TANK TYPE WATER CLOSET
2	URINAL
3	LAVATORY
4	MIRROR
5	TISSUE HOLDER
6	CONTINUOUS HEADER FRAME, HPL PHENOLIC (COLOR: BROWN)
7	COUNTER TOP SYNTHETIC GRANITE
8	SOAP HOLDER
9	SHOWER HEAD
10	SHOWER VALVE
11	FAUCET
FF-3	FLOOR TILE 300 X 300 NON SKID
WF-2	WALL TILES (1.8 M HEIGHT) 300 X 600 GLAZED

A TOILET DETAILS
 SCALE: 1:100MTS

SECTION A SECTION B SECTION C SECTION D
 SCALE: 1:100MTS SCALE: 1:100MTS SCALE: 1:100MTS SCALE: 1:100MTS



CONCURRED BY:
 DIR. DAVID B. BUNGALON
 EXECUTIVE DIRECTOR, TESDA

RECOMMENDING APPROVAL:
 DIR. JUAN D. OROZCO
 DIRECTOR FOR AS
 CHIEF STAFF, CDD
 DIRECTOR IN CHARGE, SHU

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

PROJECT TITLE:
 PROPOSED TESDA
 INNOVATION CENTER - ISAT
 LOCATION: Mambal Highway #1 Arts and Trades (TESDA-ISAT), Calatagan, Tarlac City

DESIGNED AND SPECIFICATIONS AND DRAWINGS PREPARED BY THE ARCHITECTURAL FIRM AND ENGINEER OF RECORD. THE ARCHITECT AND ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR THE ACCURACY AND COMPLETENESS OF THE DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY AND COMPLETENESS OF THE CONSTRUCTION. THE ARCHITECT AND ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR THE ACCURACY AND COMPLETENESS OF THE DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY AND COMPLETENESS OF THE CONSTRUCTION.

CADD BY:
 MS. GRACIE C. TEODORO
 CAD OPERATOR, SHU-CDD

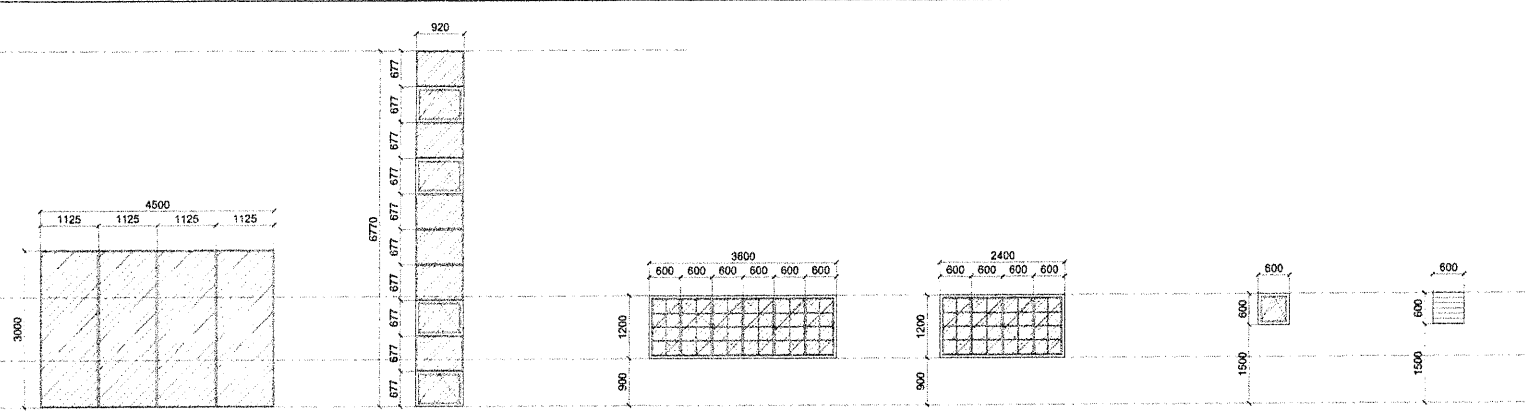
PREPARED BY:
 ARCH. CARLOS D. MANANQUI,
 ARCHITECT CONSULTANT

REVIEWED BY:
 ARCH. RIMEL A. MENDOZA
 ARCHITECT CONSULTANT

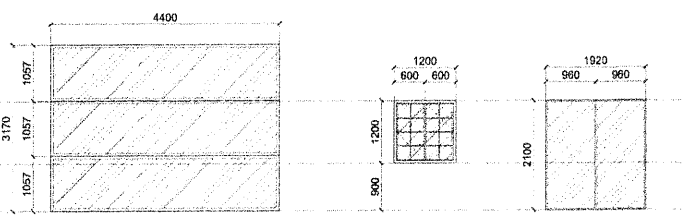
SUBMITTED BY:
 ENGR. ROY LOUIE MINGARACAL
 LEAD, SHU-CDD

SHEET CONTENTS:
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SHEET NO.
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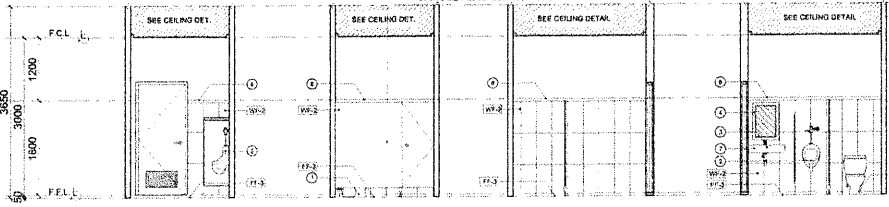


SCHEDULE	W 01	SCHEDULE	W 02	SCHEDULE	W 03	SCHEDULE	W 04	SCHEDULE	W 05	SCHEDULE	W 06		
LOCATION:	FAÇADE	LOCATION:	FAÇADE	LOCATION:	MEAT/FISH & FRUIT/VEGETABLE PROCESSING, ICE/TEA PURPOSE HALL, DISPLAY AREA, COMPUTER RESEARCH, MEETING AREA & LEARNING ACTIVITY	LOCATION:	MEAT/FISH & FRUIT/VEGETABLE PROCESSING	LOCATION:	MEAT/FISH & FRUIT/VEGETABLE PROCESSING	LOCATION:	CCTV SECURITY ROOM, MALE AND FEMALE TOILET, QUARTERS TOILET	LOCATION:	ELECTRICAL ROOM, AIR ROOM
DIMENSION:	4500MM X 3200MM	DIMENSION:	4500MM X 3200MM	DIMENSION:	3000MM X 1200MM	DIMENSION:	2400MM X 1200MM	DIMENSION:	600mm x 600mm	DIMENSION:	600mm x 600mm	DIMENSION:	600mm x 600mm
DESCRIPTION:	FRAMELESS-FIXED TYPE WINDOW WITH 12mm THICK TOUGHENED OR TEMPERED GLASS (COLOR: TERSA BLUE)	DESCRIPTION:	FRAMELESS-FIXED TYPE WINDOW WITH 12mm THICK TOUGHENED OR TEMPERED GLASS (COLOR: TERSA BLUE) AND AWNING WINDOW TYPE WITH 14mm THICK GLASS ANALOK FRAME AND JAMB WITH COMPLETE FITTINGS AND ACCESSORIES	DESCRIPTION:	CASEMENT WINDOW WITH 14mm THICK GLASS ANALOK FRAME & JAMB (COLOR: TERSA BLUE, WITH COMPLETE FITTINGS & ACCESSORIES)	DESCRIPTION:	CASEMENT WINDOW WITH 14mm THICK GLASS ANALOK FRAME & JAMB (COLOR: TERSA BLUE, WITH COMPLETE FITTINGS & ACCESSORIES)	DESCRIPTION:	AWNING TYPE WITH 14mm THICK GLASS ANALOK FRAME & JAMB (COLOR: TERSA BLUE) WITH COMPLETE FITTINGS & ACCESSORIES	DESCRIPTION:	AWNING TYPE WITH 14mm THICK GLASS ANALOK FRAME & JAMB (COLOR: TERSA BLUE) WITH COMPLETE FITTINGS & ACCESSORIES	DESCRIPTION:	HPL LOWER PANEL (COLOR: BLACK) WITH PVC 50mm X 150mm JAMB
NO OF SET:	3 SETS	NO OF SET:	4 SETS	NO OF SET:	15 SETS	NO OF SET:	3 SETS	NO OF SET:	16 SETS	NO OF SET:	7 SETS	NO OF SET:	7 SETS

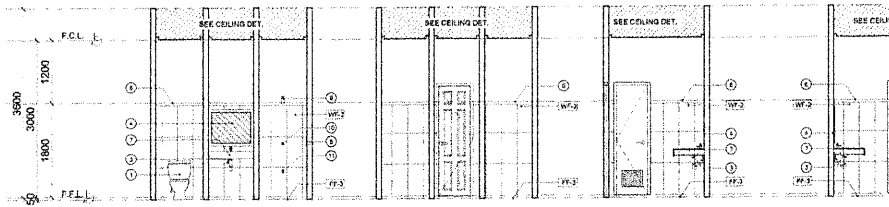


SCHEDULE	W 07	SCHEDULE	W 08	SCHEDULE	W 09
LOCATION:	FAÇADE	LOCATION:	QUARTERS	LOCATION:	FAÇADE
DIMENSION:	4400mm x 2800mm	DIMENSION:	1200MM X 1200MM	DIMENSION:	2100MM X 1820MM
DESCRIPTION:	FRAMELESS-FIXED TYPE WINDOW WITH 12mm THICK TOUGHENED OR TEMPERED GLASS (COLOR: TERSA BLUE)	DESCRIPTION:	CASEMENT WINDOW WITH 14mm THICK GLASS ANALOK FRAME & JAMB (COLOR: TERSA BLUE, WITH COMPLETE FITTINGS & ACCESSORIES)	DESCRIPTION:	FRAMELESS-FIXED TYPE WINDOW WITH 12mm THICK TOUGHENED OR TEMPERED GLASS (COLOR: TERSA BLUE)
NO OF SET:	4 SETS	NO OF SET:	3 SETS	NO OF SET:	2 SETS

A SCHEDULE OF WINDOWS
SCALE: 1:100MTS



SECTION A SCALE: 1:100MTS
SECTION B SCALE: 1:100MTS
SECTION C SCALE: 1:100MTS
SECTION D SCALE: 1:100MTS

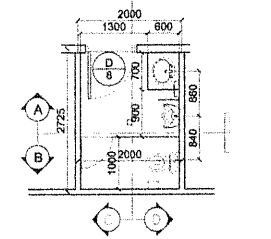


SECTION A SCALE: 1:100MTS
SECTION B SCALE: 1:100MTS
SECTION C SCALE: 1:100MTS
SECTION D SCALE: 1:100MTS

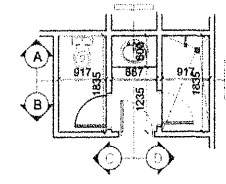
TOILET LEGENDS:

- TANK TYPE WATER CLOSET
- URINAL
- LAVATORY
- MIRROR
- TISSUE HOLDER
- CONTINUOUS HEADER FRAME, HPL PHENOLIC (COLOR: BROWN)
- COUNTER TOP SYNTHETIC GRANITE
- SOAP HOLDER
- SHOWER HEAD
- SHOWER VALVE
- FAUCET

FF-3 FLOOR TILE 300 X 300 NON SKID
WF-2 WALL TILES (1.8 M HEIGHT) 300 X 600 GLAZED

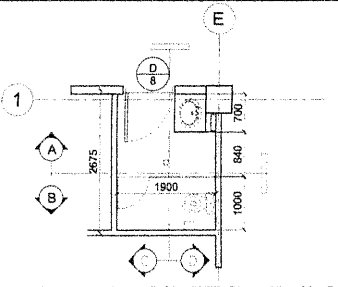


A MALE TOILET DETAILS
SCALE: 1:100MTS

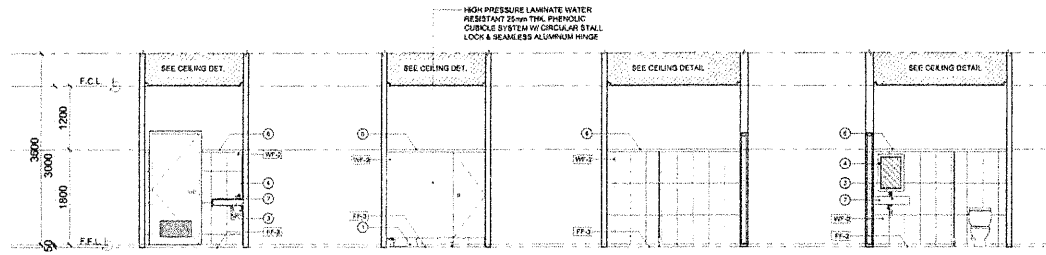


A QUARTERS TOILET DETAILS
SCALE: 1:100MTS

<p>TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</p>	CONCURRED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE:	DESIGNED AND ENGINEERED AND CHECKED BY:	CADD BY:	PREPARED BY:	REVIEWED BY:	SUBMITTED BY:	SHEET CONTENTS:	SHEET NO.
	 DIR. DAVID B. BUNGALLAN EXECUTIVE DIRECTOR (ITESD)	 DIR. JUNMY C. OROZCO DIRECTOR FOR AS CHIEF OF STAFF, CDD DIRECTOR IN CHARGE, SPU	 SEC. ISIDRO S. LAPEÑA, PH.D., CSEE EXECUTIVE DIRECTOR TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY	PROPOSED TESDA INNOVATION CENTER - ISAT <small>(LOCATION: Santa Rosa Blvd. and Tavera (TE-004-1341), Calapan, Tawi-Tawi)</small>	MANARAO AND SORIANO AND OTHERS FOR THE ARCHITECTURAL, ENGINEERING, INTERIOR DESIGN, ELECTRICAL, MECHANICAL, PLUMBING, AND SANITARY DESIGN OF THE PROPOSED TESDA INNOVATION CENTER - ISAT. ALL WORKS SHALL BE IN ACCORDANCE WITH THE LATEST REVISIONS OF THE NATIONAL BUILDING CODE OF THE PHILIPPINES AND ALL APPLICABLE LAWS, DECREES, REGULATIONS, ORDINANCES, AND RESOLUTIONS. 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.	 MS. GRACIE C. TEODORO CAD OPERATOR, SPU-ODG	 ARCH. CARLOS D. MANARAO ARCHITECT CONSULTANT	 ARCH. RANIEL A. MENDOZA ARCHITECT	 ENGR. ROY LOUIE P. MINGARACAL CIVIL ENGINEER	AS SHOWN	A-15



A FEMALE TOILET DETAILS
SCALE: 1:100MTS

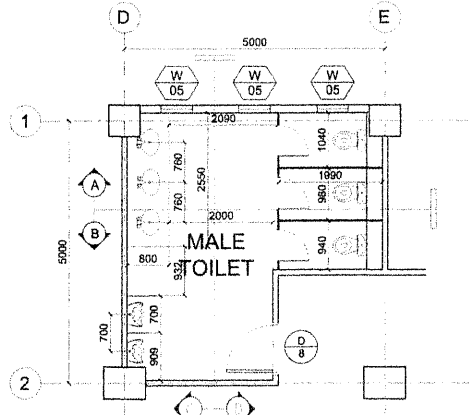


SECTION A SECTION B SECTION C SECTION D
SCALE: 1:100MTS

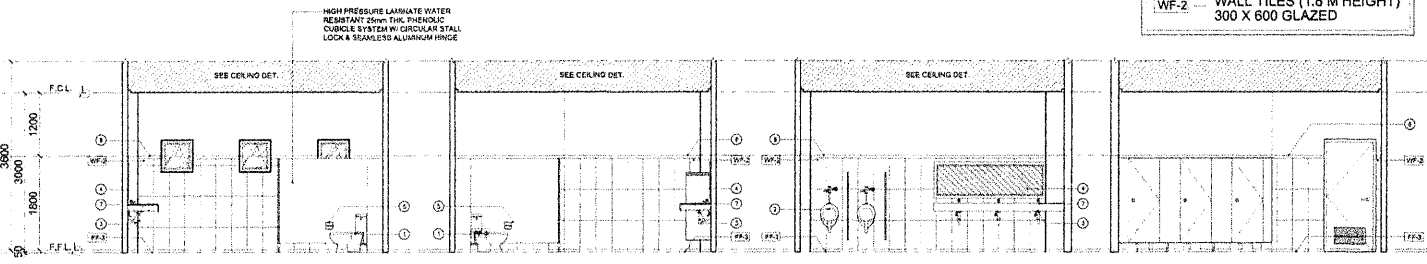
TOILET LEGENDS:

- 1 TANK TYPE WATER CLOSET
- 2 URINAL
- 3 LAVATORY
- 4 MIRROR
- 5 TISSUE HOLDER
- 6 CONTINUOUS HEADER FRAME, HPL PHENOLIC (COLOR: BROWN)
- 7 COUNTER TOP SYNTHETIC GRANITE
- 8 SOAP HOLDER
- 9 SHOWER HEAD
- 10 SHOWER VALVE
- 11 FAUCET

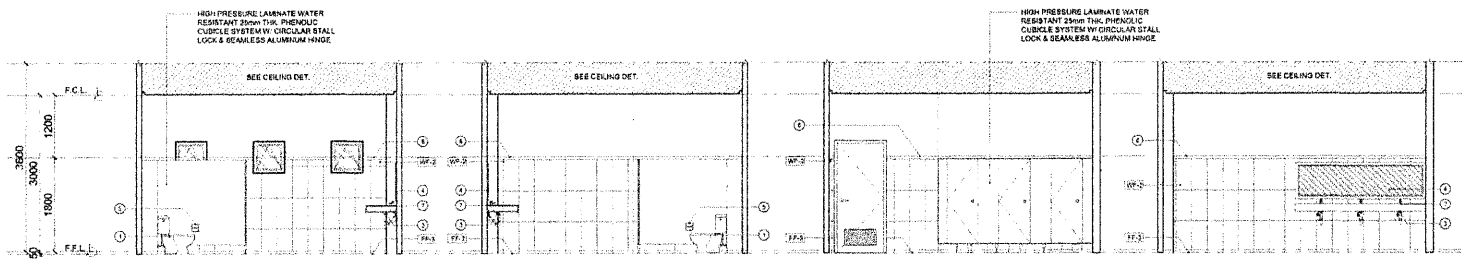
FF-3 FLOOR TILE 300 X 300 NON SKID
WF-2 WALL TILES (1.8 M HEIGHT) 300 X 600 GLAZED



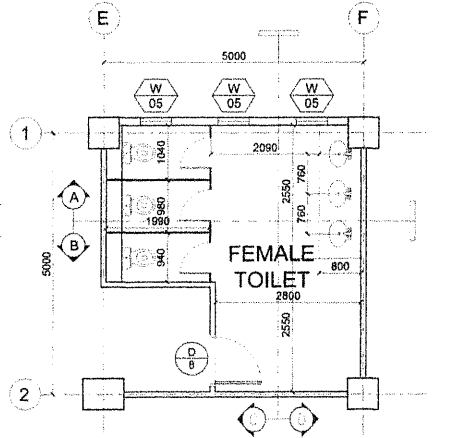
A MALE TOILET DETAILS
SCALE: 1:100MTS



SECTION A SECTION B SECTION C SECTION D
SCALE: 1:100MTS



SECTION A SECTION B SECTION C SECTION D
SCALE: 1:100MTS



A FEMALE TOILET DETAILS
SCALE: 1:100MTS



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DIR. JUAN C. TOROZCO
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APPROVED BY:
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TECHNICAL EDUCATION AND SKILLS
DEVELOPMENT AUTHORITY

PROJECT TITLE:
PROPOSED TESDA
INNOVATION CENTER - ISAT

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SHEET CONTENTS:
AS SHOWN

SHEET NO.
A-16

LOCATION: Inside the 1st of June and 2nd Ave (TESDA ISAT), Calamba, Laguna City

STRUCTURAL DESIGN NOTES, STANDARD DRAWINGS & SPECIFICATIONS

A. GENERAL NOTES:

- THE STRUCTURAL DRAWING SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS WITH ALL OTHER DISCIPLINES AND THE SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASSES, HANGERS, ANCHORS, HOLES AND OTHER ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORKS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE ON NDR ISSUE DIRECTIONS AS TO PLAN AND PROGRAMS.
- THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACINGS REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORKS AND CONNECTIONS HAVE BEEN COMPLETED. THE INVESTIGATION DESIGN, SAFETY, ADEQUACY AND INSPECTION OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE METHODS, TECHNIQUES, AND SEQUENCES OF THE CONTRACTOR.
- DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO THE APPROVAL OF THE ENGINEER.
- ALL STRUCTURAL SYSTEMS WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERECTED SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH THE SUPPLIER'S INSTRUCTIONS AND REQUIREMENTS.
- LOADING APPLIED TO THE STRUCTURE DURING THE PROCESS OF CONSTRUCTION SHALL NOT EXCEED THE SAFE LOAD-CARRYING CAPACITY OF THE STRUCTURAL MEMBERS. THE LIVE LOADINGS USED IN THE DESIGN OF THIS STRUCTURE ARE INDICATED IN THE "DESIGN CRITERIA NOTES". DO NOT APPLY ANY CONSTRUCTION LOADS UNTIL STRUCTURAL FRAMING IS PROPERLY CONNECTED TOGETHER AND UNTIL ALL TEMPORARY BRACINGS ARE IN PLACE.
- SHOP DRAWINGS AND OTHER ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR BEFORE SUBMITTAL. THE ENGINEER'S REVIEW IS TO BE CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE RELEVANT CONTRACT DOCUMENTS. THE ENGINEER'S REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW, CHECK AND COORDINATE THE SHOP DRAWING PRIOR TO SUBMISSION. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF THE SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, DIMENSIONS, ETC.
- SUBMIT SHOP DRAWINGS IN THE FORM OF TWO BLUELINE PRINTS. IN NO CASE SHALL REPRODUCTION OF THE CONTRACT DRAWINGS BE USED AS SHOP DRAWINGS. AS A MINIMUM, SUBMIT THE FOLLOWING ITEMS FOR REVIEW:
 - REINFORCING STEEL SHOP DRAWINGS.
 - STRUCTURAL STEEL SHOP DRAWINGS.
 OTHER SUBMITTALS TO BE REQUIRED IN ACCORDANCE WITH THE "SCHEDULE OF SPECIAL INSPECTIONS" OR THE SEPARATE NOTES CONTAINED HEREIN.
- IN THE INTERPRETATION OF THESE DRAWINGS, INDICATED DIMENSIONS SHALL GOVERN AND OR SIZES SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
- ALL REINFORCED CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE ACI-318-08 BUILDING CODE, AND ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS (LATEST EDITION) IN SO FAR AS THEY DO NOT CONFLICT WITH THE LOCAL BUILDING CODE REQUIREMENTS.
- ALL SLABS, BEAMS, GIRDERS AND OTHER STRUCTURAL ELEMENTS WHICH ARE NOT INDICATED, DETAILED, DESIGNATED OR INADVERTENTLY OMITTED BUT ARE NECESSARY TO BE COORDINATED WITH ARCHITECTURAL AND OTHER ALLIED ENGINEERING PLANS AS WELL AS TO COMPLETE THE STRUCTURAL WORKS IN ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT UP DURING PRE-BID MEETINGS/NEGOTIATIONS. IT IS UNDERSTOOD THAT THE CONTRACTOR HAS PROVIDED AND INCLUDED ALL THESE ITEMS IN THEIR BID.

B. NOTES ON CONCRETE MIXES AND PLACING

- CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION, RE-HANDLING OR FLOWING. PLACING SHALL BE DONE PREFERABLY WITH BUGGIES, BUCKETS OR WHEEL BARROWS. NO CHUTES WILL BE ALLOWED EXCEPT TO TRANSFER CONCRETE FROM HOPPERS TO BUGGIES, WHEEL BORROWS OR BUCKETS, IN WHICH CASE, THEY SHALL NOT EXCEED SIX THOUSAND (6000mm) IN AGGREGATE LENGTH.
- NO DEPOSITING OF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATORS UNLESS AUTHORIZED IN WRITING BY THE STRUCTURAL ENGINEER AND ONLY FOR UNUSUAL CONDITIONS WHERE VIBRATION IS EXTREMELY DIFFICULT TO ACCOMPLISH.

C. NOTES ON STRUCTURAL STEEL

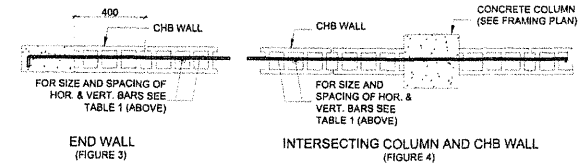
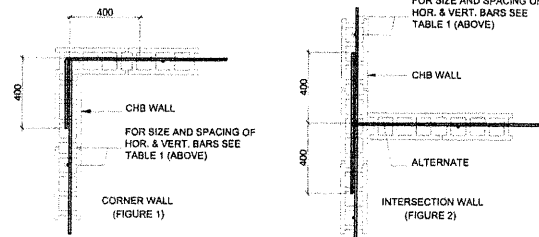
- ALL STRUCTURAL STEEL SHALL CONFORM TO THE 2005 13TH EDITION OF "MANUAL OF STEEL CONSTRUCTION" & "AISC 360-10 SPECIFICATION OF STRUCTURAL STEEL BUILDINGS" OF THE AISC.
- ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 USING E70XX ELECTRODES. UNLESS OTHERWISE NOTED, PROVIDE CONT. MIN. SIZED FILLET WELDS PER AISC REQUIREMENTS. ALL FILLER MATERIAL SHALL HAVE A MINIMUM YIELD STRENGTH OF 70 KSI.
- UNLESS OTHERWISE NOTED, ALL STRUCTURAL STEEL PERMANENTLY EXPOSED TO VIEW SHALL BE SHOP PAINTED WITH TWO COAT OF RED OXIDE PAINT.
- THE STRUCTURAL STEEL ERECTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING (SEE GENERAL STRUCTURAL NOTES).

D. NOTES ON MASONRY WALLS

- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE APPLICABLE STANDARDS AND SPECIFICATIONS OF THE NATIONAL CONCRETE MASONRY ASSOCIATION AND UNIFORM BUILDING CODE.
- CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 GRADE N.
- MORTAR AND GROUT FOR ALL REINFORCED MASONRY SHALL CONFORM TO ASTM 270-TYPE M AND SHALL HAVE A MINIMUM 28-DAYS STANDARD CYLINDER COMPRESSIVE STRENGTH OF 21 MPa (3000 PSI).
- ALL MASONRY WALLS SHALL BE REINFORCED ACCORDING TO THE FOLLOWING SCHEDULE OF CONCRETE HOLLOW BLOCK REINFORCEMENT UNLESS OTHERWISE INDICATED IN THE PLANS.
- ALL CELLS CONTAINING REINFORCING BARS OR INSERTS SHALL BE SOLIDLY FILLED WITH CONCRETE GROUT.
- FOR TYPICAL CONNECTION DETAILS ON MASONRY UNITS, REFER TABLE-1 & FIGURES 1, 2, 3 & 4.

TABLE - 1: SCHEDULE OF CONCRETE HOLLOW BLOCK REINFORCEMENT

THICKNESS mm	REINFORCEMENT		NOTES
	HORIZONTAL	VERTICAL	
100	10mmØ @ 600mm O.C.	10mmØ @ 600mm O.C.	A. MINIMUM LAP SLICES = 40Ø B. PROVIDE 1-12mmØ VERTICAL BAR @ CORNERS, INTERSECTIONS, END OF WALLS, AND EACH SIDE OF OPENING.
150	12mmØ @ 600mm O.C.	12mmØ @ 600mm O.C.	C. WHERE CHB WALLS ADJOIN COLUMNS RC BEAMS & WALLS, DOWELS WITH THE SAME SIZE AS VERTICAL OR HORIZONTAL REINFORCEMENT SHALL BE PROVIDED. D. LINTEL BEAMS SHALL BEAR AT LEAST 18 INCHES (463 mm) ON EACH SIDE OF MASONRY WALL OPENING.



TYPICAL CONNECTION DETAILS OF CONCRETE MASONRY UNITS AT COLUMN AND/OR WALLS

E. NOTES ON SLAB-ON-GRADE

- THE SOIL SUBGRADE AND FILL LAYERS BELOW ALL SLAB ON GRADE, PAVING AND PIT SHALL BE MECHANICALLY COMPACTED IN LAYERS, TO THE MIN. OF 95% OF THE MODIFIED UNIFORM BUILDING CODE.
- ALL SLABS-ON-GRADE SHALL BE PROVIDED WITH A MIN. OF 75mm THK. GRAVEL BEDDING OR UNLESS NOTED.
- UNLESS OTHERWISE NOTED, ALL BEDDED SLABS SHALL BE REINFORCED WITH 12mm BARS AT 300mm O.C. EACHWAY AT THE CENTER OF SLAB.
- IN ORDER TO AVOID CONCRETE SHRINKAGE CRACKING, PLACE SLAB IN ALTERNATING LANE (OR CHECKBOARD) PATTERN. THE MAX. LENGTH OF SLAB CAST IN ANY ONE CONTINUOUS POUR IS RECOMMENDED TO BE LESS THAN 100 FEET. THE MAX. SPACING OF JOINTS SHALL BE 21' (7.6m).
- SEE THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DEPRESSED SLAB AREAS AND DRAINS. SLOPE SLAB TO DRAINS WHERE SHOWN.

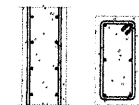
F. NOTES ON FOUNDATIONS

- ALL FOUNDATION CONCRETE SHALL OBTAIN A 28 DAYS COMPRESSIVE STRENGTH. ALL CONCRETE TO BE PERMANENTLY EXPOSED TO WEATHER SHALL BE AIR ENTRAINED TO 5% (+ 1%) WITH AN ADMIXTURE THAT CONFORMS TO ASTM C-260.
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60.
- UNBALANCED BACKFILLING SHALL BE DONE AGAINST FOUNDATION WALLS ARE SECURELY BRACED AGAINST OVERTURNING, EITHER BY TEMPORARY BRACING OR BY PERMANENT CONSTRUCTION.
- PRIOR TO COMMENCING ANY FOUNDATION WORK, COORDINATE WORK WITH ANY EXISTING UTILITIES. FOUNDATIONS SHALL BE LOWERED WHERE REQUIRED TO AVOID UTILITIES.
- UNLESS OTHERWISE NOTED, THE CENTERLINES OF COLUMN FOUNDATIONS SHALL BE LOCATED ON COLUMN CENTERLINES.
- ALL RETAINING WALLS SHALL HAVE AT LEAST 12" OF FREE-DRAINING GRANULAR BACKFILL, AT FULL HEIGHT OF WALL. PROVIDE CONTROL JOINTS IN RETAINING WALLS AT APPROXIMATELY EQUAL INTERVALS NOT TO EXCEED 25 FT. NOR 3 TIMES THE WALL HEIGHT. PROVIDE EXPANSION JOINTS AT EVERY FOURTH CONTROL JOINT, UNLESS OTHERWISE INDICATED.
- ALLOWABLE SOIL BEARING CAPACITY AS PER BY DEVELOPER.

G. CONCRETE PROTECTION COVER FOR REINFORCEMENT

CONCRETE COVER FOR REINFORCEMENT SHALL BE MEASURED FROM THE CONCRETE SURFACE TO THE OUTERMOST SURFACE OF THE STEEL SURFACE OF THE STEEL. 1/8 TO THE OUTER EDGE OF STIRRUPS, TIES OR SPIRALS ENCLOSING MAIN BAR TO THE OUTERMOST LAYER OF BARS IF MORE THAN ONE LAYER IS USED WITHOUT STIRRUPS OR TIES. THE FF. MIN. CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT.

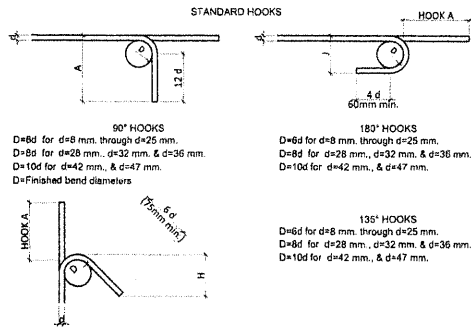
	MIN. COVER IN mm	
a) PERMANENTLY EXPOSED TO EARTH - CONCRETE IN CONTACT WITH EARTH INCLUDING PROTECTED WITH WATERPROOFING:	75	CLEAR COVER FOR R.C. WALLS
b) MEMBRANE OR BITUMASTIC COATING:	40	CLEAR COVER FOR BEAMS OR COLUMNS
18mmØ AND SMALLER	50	
OTHER BARS	50	
COLUMNS TIES	50	
GRADE BEAMS	50	
SLAB ON GRADE (FROM TOP SURFACE)	50	
c) CONCRETE NOT IN CONTACT WITH GROUND:		
SLABS	20	
SHEAR WALLS	40	
BEAMS AND COLUMNS	40	
OTHER BARS	20	



CONCURRED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE:	PREPARED BY:	REVIEWED AS TO PLAN:	SUBMITTED BY:	SHEET CONTENTS:	SHEET NO.
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STRUCTURAL DESIGN NOTES, STANDARD DRAWINGS & SPECIFICATIONS

H. STANDARD REINFORCEMENT DETAILS



STANDARD END HOOK DIMENSIONS

BAR SIZE (mm)	D (mm)	180° HOOKS		90° HOOKS		135° HOOKS	
		A (mm)	J (mm)	A (mm)	A (mm)	H (mm)	H (mm)
8	50	105	65	130			
10	60	125	80	155	110	85	
12	80	155	100	200	115	80	
16	95	180	130	250	140	95	
20	120	220	165	325	205	115	
25	155	275	205	425	270	155	
28	240	375	300	475			
32	275	425	335	550			

BASIC DEVELOPMENT LENGTH, L_{db}

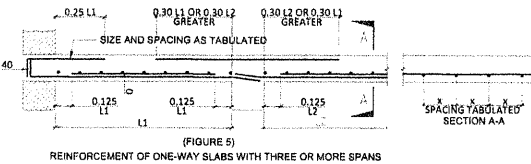
MINIMUM DEVELOPMENT AND SPLICE LENGTHS (mm)

BAR SIZE (mm)	DEVT LENGTH L _d	HOOK DEVT LENGTH L _{dh}	TENSION			COMPRESSION			
			CLASS A SPLICE	CLASS B SPLICE	TOP BAR (MIN. OF 300mm CONCRETE CAST BELOW)	DEVT LENGTH	COMPRESSION SPLICE		
			DEVT. LENGTH	CLASS A SPLICE	CLASS B SPLICE	DEVT. LENGTH	COMPRESSION SPLICE		
Ø10	350	200	300	375	500	375	500	200	375
Ø12	400	225	350	450	575	450	575	250	450
Ø18	550	300	475	600	775	600	775	300	600
Ø20	675	375	675	900	1200	900	1200	400	720
Ø25	1170	475	1170	1375	1375	1375	1775	500	900
Ø28	1350	525	1350	1700	1700	1700	2225	550	1000
Ø32	1750	600	1750	1950	1950	1950	2900	625	1150

REMARKS	WHERE STRESS IS IN TENSION	WHERE STRESS IS IN COMPRESSION	WHERE STRESS IS IN TENSION	WHERE STRESS IS IN COMPRESSION	HOOKS NOT USED
FACE FOR NOT END ANCHOR BARS OF SLABS AND BEAMS	WHERE STRESS IS IN TENSION	WHERE STRESS IS IN COMPRESSION	WHERE STRESS IS IN TENSION	WHERE STRESS IS IN COMPRESSION	HOOKS NOT USED
TOP BAR IS DEFINED AS HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 300 mm FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT	FOR EPOXY-COATED BAR, THE TENSILE DEVELOPMENT LENGTH AND LAP SPLICE LENGTH SHOWN IN THE TABLE SHALL BE INCREASED BY 20%.				

NOTES:

- WELDED WIRE FABRIC MESH SHOULD BE LAPPED OVER ADJACENT SHEETS BY 300 MM.
- BARs SHALL BE SPLICED ONLY WHERE INDICATED, EXCEPT THAT BARs INDICATED CONTINUOUS MAY BE SPLICED AT CONTRACTOR CONVENIENCE, WHERE SPLICE LOCATIONS FOR CONTINUOUS BARs, ARE NOTED, THOSE BARs SHALL BE TENSION SPLICED.

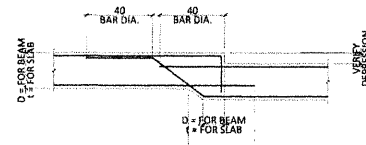


REINFORCEMENT OF ONE-WAY SLABS WITH THREE OR MORE SPANS (FIGURE 5)

- USE COMPRESS LAP SPLICE FOR COLUMN TO ISOLATED FOOTING JUNCTION NOT CONNECTED WITH GRADE BEAMS FOR COLUMN TO ISOLATED FOOTING WALL FOOTINGS, SHEAR JUNCTION CONNECTED WITH GRADE BEAMS, COMBINED FOOTINGS, RETAINING WALL FOOTINGS AND MAT FOUNDATIONS, TENSION LAP SPLICE SHALL BE USED.
- ALL REINFORCING STEEL SHALL BE SECURELY HELD IN PROPER POSITION WHILE POURING CONCRETE CHAIRS, TIES, SPACERS, ADDITIONAL BARs AND STIRRUPS SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR ALL REINFORCING STEEL.

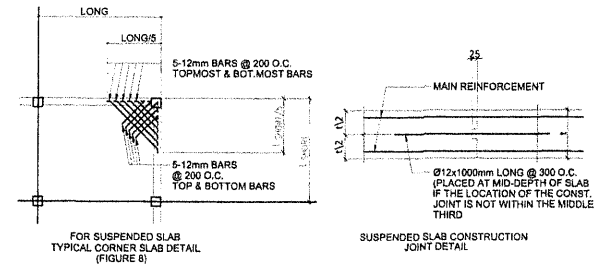
I. NOTES ON CONCRETE SLABS

- ALL SLAB REINFORCEMENTS SHALL HAVE A MINIMUM CLEAR DISTANCE OF 20mm FROM THE BOTTOM AND FROM THE TOP OF SLABS.
- UNLESS OTHERWISE DETAILED, FOR CONTINUOUS SLABS WITH THE MAIN REINFORCEMENT RUNNING IN ONE DIRECTION, REINFORCING BARs SHALL BE UP, EXTENDED OR CUT AS FOLLOWS:
- IF SLABS ARE REINFORCED BOTHWAYS, BARs ALONG THE SHORTER SPAN SHALL BE PLACED BELOW THOSE ALONG THE LONG SPAN AT THE CENTER OF THE SLAB AND BE PLACED OVER THE LONGER SPAN BARs ON AREAS NEAR THE SUPPORTS. THE SPACING OF THE BARs AT THE COLUMN STRIPS SHALL BE APPROXIMATELY ONE AND ONE-HALF (1-1/2) TIMES THAT IN THE MIDDLE STRIPS BUT NO CASE GREATER THAN TWO AND ONE-HALF (2-1/2) TIMES THE SLAB THICKNESS OR 450mm.
- TEMPERATURE BARs FOR SLABS SHALL BE GENERALLY PLACED NEAR THE FACE IN TENSION AND SHALL NOT BE LESS THAN Ø/25 BUT
- UNLESS OTHERWISE NOTED, DROP SLABS SHALL BE PROVIDED WITH ADDITIONAL REINFORCEMENT AT THE LOCATION OF DROP AS SHOWN IN FIGURE 7.



TYPICAL BEAM/SLAB CHANGE SOFFIT DETAIL (FIGURE 7)

- PROVIDE EXTRA REINFORCEMENT FOR CORNER SLAB (TWO ADJACENT DISCONTINUOUS EDGES) AS SHOWN BELOW AND AT ENDS AND CORNERS OF SHEAR WALL (SEE FIG. 8)
- SEE MECHANICAL, PLUMBING, ELECTRICAL AND FIRE PROTECTION DRAWINGS FOR ALL SUSPENDED AND EMBEDDED PIPING, CONDUITS, DUCTWORKS, EQUIPMENT, ETC.
- UNLESS OTHERWISE NOTED, EMBEDDED CONDUITS SHALL BE RUN GENERALLY AT MID-BAY AND PARALLEL CONDUITS SHALL BE AT THREE DIAMETERS ON CENTER, CONDUIT SIZE NOT EXCEED 1/4 OF THE SLAB THICKNESS AND SHALL BE LOCATED AT MID THICKNESS OF THE SLAB.

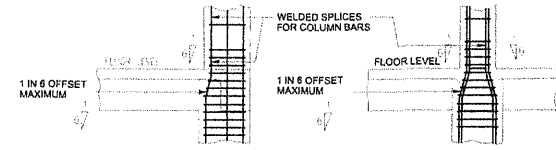


FOR SUSPENDED SLAB TYPICAL CORNER SLAB DETAIL (FIGURE 8)

SUSPENDED SLAB CONSTRUCTION JOINT DETAIL

J. NOTES ON COLUMNS

- WHERE COLUMNS CHANGE IN SIZE, VERTICAL REINFORCEMENTS SHALL BE OFFSET AT A SLOPE NOT MORE THAN 1 IN 6, PROVIDE TRANSVERSE REINFORCEMENT AS PER ITEM E BELOW FOR JOINTS WITH BAR OFFSETS. (AS SHOWN FIGURE 9)



TYPICAL SPLICE & OFFSET DETAIL OF COLUMN BARs (FIGURE 9)

- LAP SPLICES, WHEN REQUIRED, ARE PERMITTED ONLY WITHIN THE CENTER HALF OF THE COLUMN LENGTH AND SHALL BE PROPORTIONED AS TENSION SPLICES. IN NO CASE SHALL THE LAP SPLICE BE LOCATED CLOSER THAN A DISTANCE EQUAL TO THE MAXIMUM COLUMN DIMENSION FROM THE FACE OF THE BEAM-COLUMN JOINT. PROVIDE EXTRA TRANSVERSE REINFORCEMENT OF THE SAME SIZE AND ARRANGEMENT INDICATED IN THE COLUMN SCHEDULE SPACED AT MOST ONE-FOURTH THE MIN. COLUMN SECTION DIMENSION THROUGHOUT THE LENGTH OF THE SPLICE OR 100 mm.
- FOR ALL TIED COLUMNS, PROVIDE TRANSVERSE REINFORCEMENT OF THE SAME SIZE AND ARRANGEMENT INDICATED IN THE COLUMN SECTION SCHEDULE AND SPACED NO GREATER THAN ONE-QUARTER THE MINIMUM COLUMN SECTION DIMENSION NOR 100mm OVER A DISTANCE FROM EACH JOINT FACE OF NOT LESS THAN THE LARGER OF THE MAX. COLUMN SECTION DIMENSION, OR ONE-SIXTH OF THE CLEAR HEIGHT OF THE COLUMN OR 450mm.
- BEAM-COLUMN JOINTS SHALL BE PROVIDED WITH TRANSVERSE REINFORCEMENT SPACED AT TWICE THAT REQUIRED BY ITEM 3 WHEN THERE ARE BEAMS HAVING WIDTHS AT LEAST ONE-HALF THE COLUMN WIDTH AND DEPTHS NOT LESS THAN THREE-QUARTERS OF THE DEEPEST BEAM THAT FRAME DEEPEST BEAM THAT FRAME INTO FOUR SIDES OF THE COLUMN. FOR ALL OTHER CONDITIONS PROVIDE SAME AS REQUIRED IN ITEM 5.



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CIVIL ENGINEER, TEDASAT

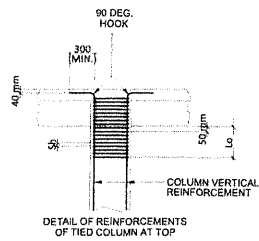
SUBMITTED BY:
ENGR. ROY LOUIE P. MINGARACAL
HEAD, SP-000

SHEET CONTENTS:
GENERAL NOTES

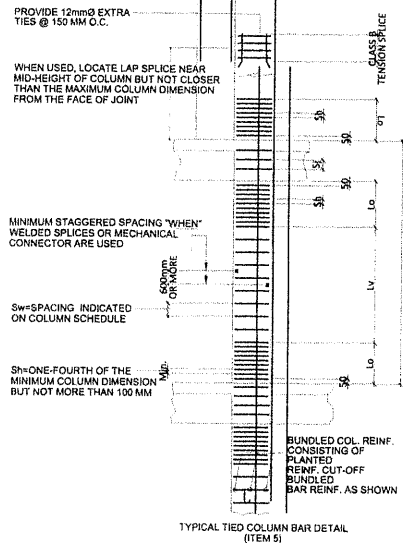
SHEET NO.
S-2

STRUCTURAL DESIGN NOTES, STANDARD DRAWINGS & SPECIFICATIONS

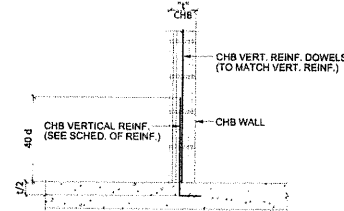
LEGEND: (ITEM 3)
 Sj=100 MM O.C.
 Sh=100 mm O.C.
 Sv=150 mm O.C.
 (SEE APPLICABLE ONLY FOR Sj) AND Sh)
 (USE ϕ 12mm TIES)
 H=FLOOR TO FLOOR HEIGHT OF COLUMN
 Lv = H2 = PART OF COLUMN BEYOND CONFINEMENT REGION
 Lo = H1 = CONFINEMENT REGION
 t = THICKNESS



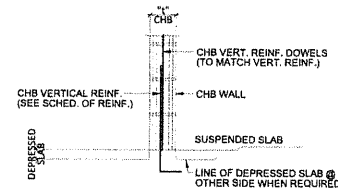
TYPICAL RECTANGULAR TIED COLUMN REINFORCEMENT DETAIL (FIGURE 10)



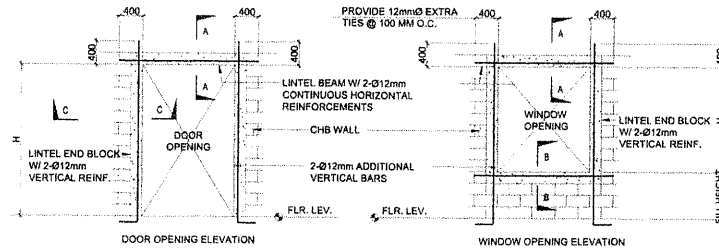
TYPICAL TIED COLUMN BAR DETAIL (ITEM 5)



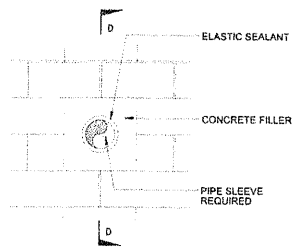
WALL BASE REINFORCING AT FLAT FLOOR



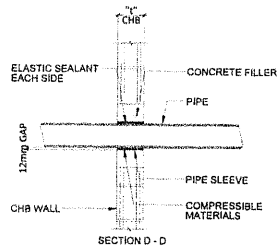
WALL BASE REINFORCING AT FLOOR W/ DEPRESSION



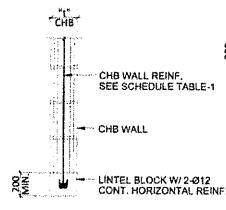
NOTE: OMIT EXTRA REINF. FOR OPENING LESS THAN 200MM VERT & 400MM HOR.



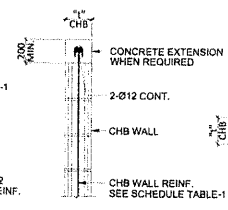
PIPE SLEEVE THRU WALL



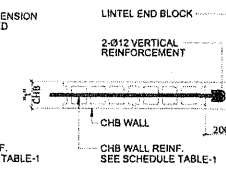
SECTION D - D



SECTION A - A



SECTION B - B



SECTION C - C

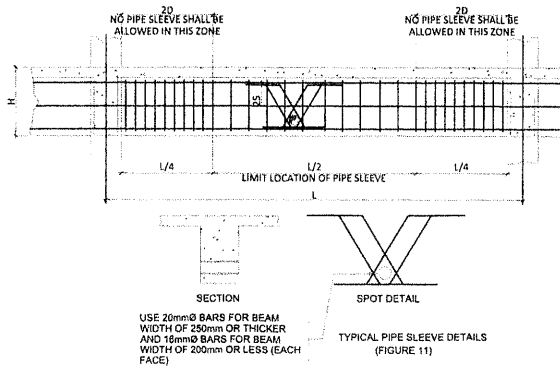
OTHER MASONRY DETAILS

<p>TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</p>	<p>CONCURRED BY:</p> <p><i>[Signature]</i> DIR. DAVID A. BUNGALLON EXECUTIVE DIRECTOR, NITSDO</p>	<p>RECOMMENDING APPROVAL:</p> <p><i>[Signature]</i> DIR. JULIUS C. CROZCO DIRECTOR FOR AS CHIEF OF STAFF DIRECTOR-IN-CHARGE, SPJ</p>	<p>APPROVED BY:</p> <p><i>[Signature]</i> SEC. ISIDORO S. LAPENA, PH.D., CSEE DIRECTOR GENERAL</p>	<p>PROJECT TITLE:</p> <p>PROPOSED TESDA INNOVATION CENTER - ISAT</p> <p>LOCATION: Calabarzon Region, Marikina</p>	<p>DRAWING AND ENGINEERING AND OTHER EXISTING FORMER AND PREVIOUS EDITIONS, REVISIONS AND DOCUMENTS OF TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY TOGETHER WITH SUBJECT FOR WHICH THEY ARE MADE IS HEREBY ACCEPTED. THIS SHALL BE SUBJECT FOR THE REVIEW TO DETERMINE ON TO MAKE CORRECTIONS OR AMENDMENTS FOR THE IMPROVEMENT OF AND FOR OTHER PURPOSES OF BUREAU. HEREBY I HEREBY ACCEPT THE WHOLE CONTENTS OF TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY.</p>	<p>PREPARED BY:</p> <p><i>[Signature]</i> ENGR. SHISHINE P. ROSOLITA CIVIL ENGINEER 574-0000</p>	<p>REVIEWED AS TO PLAN:</p> <p><i>[Signature]</i> ENGR. FRANCISCO B. NARAG, JR. CIVIL ENGINEER, TESDA-ISAT</p>	<p>SUBMITTED BY:</p> <p><i>[Signature]</i> ENGR. ROY LOUIS P. MINGARACAL HEAD, SEC-000</p>	<p>SHEET CONTENTS:</p> <p>GENERAL NOTES</p>	<p>SHEET NO.</p> <p>S-3</p>
	<p>TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</p>									

STRUCTURAL DESIGN NOTES, STANDARD DRAWINGS & SPECIFICATIONS

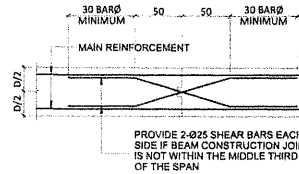
K. NOTES ON BEAMS AND GIRDERS

- UNLESS OTHERWISE NOTED IN PLANS OR SPECIFICATIONS, CAMBER ALL BEAMS AT LEAST 6mm FOR EVERY 4500mm OF SPAN EXCEPT FOR CANTILEVERS FOR WHICH THE CAMBER SHALL BE AS NOTED IN THE PLANS OR AS ORDERED BY THE STRUCTURAL ENGINEERS BUT IN NO CASE LESS THAN 10mm FOR EVERY 3000mm OF FREE SPAN.
- IF THERE ARE TWO OR MORE LAYERS OF LONGITUDINAL REINFORCING BARS IN A BEAM OR GIRDER, USE SEPARATORS OF A SIZE NOT LESS THAN 25mm BARS SPACED ABOUT 900mm ON CENTER. IN NO CASE SHALL THERE BE LESS THAN TWO (2) SEPARATORS BETWEEN LAYERS OF BARS.
- LONGITUDINAL REINFORCING BARS SHALL BE PLACED SYMMETRICALLY ABOUT THE VERTICAL CENTER LINE OF THE BEAM OR GIRDER SECTION WHERE POSSIBLE WITH UPPER LAYER BARS PLACED DIRECTLY ABOVE THOSE IN THE BOTTOM LAYER.
- BEAM REINFORCING BARS BOTH TOP AND BOTTOM, TERMINATING IN A WALL, SHALL EXTEND AT THE MOST 50mm FROM THE FAR FACE OF THE WALL AND SHALL TERMINATE IN A STANDARD 90° HOOK.
- LONGITUDINAL REINFORCEMENT OF GIRDERS, BOTH TOP AND BOTTOM, TERMINATED IN A COLUMN SHALL BE EXTENDED TO THE FAR FACE OF THE CONFINED CONCRETE CORE OF THE COLUMN AND TERMINATED BY A STANDARD 90° HOOK.
- GENERALLY, NO LAP SPlice SHALL BE PERMITTED ON BEAMS AND GIRDERS AT POINT WHERE CRITICAL BENDING STRESSES OCCUR. IN ADDITION, FOR GIRDERS, NO LAP SPlice SHALL BE LOCATED WITHIN THE JOINTS OR WITHIN A DISTANCE EQUAL TO TWICE THE MEMBER DEPTH FROM THE FACE OF THE JOINT.
- PROVIDE LAP SPlices IN GIRDERS WITH HOOP REINFORCEMENT OVER THE LENGTH OF THE LAPPED BARS SPACED NO FARTHER THAN ONE-FOURTH THE NOMINAL DEPTH, OR 100mm.
- SEE MECHANICAL, PLUMBING, ELECTRICAL AND FIRE PROTECTION DRAWINGS FOR ALL SUSPENDED AND EMBEDDED PIPING, CONDUITS, DUCTWORKS, EQUIPMENTS, ETC.
- PIPE AND DUCT SLEEVES SHALL BE LOCATED WITHIN THE REGION BOUNDED BY ONE-FOURTH OF CLEAR SPAN LENGTH FROM THE SUPPORTS. (SEE FIGURE 11)

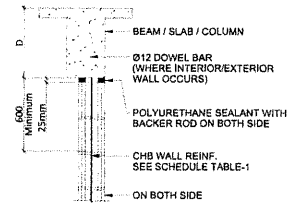


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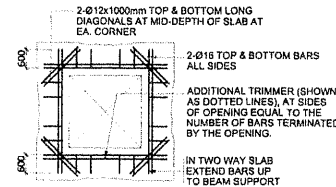
- SEEK STRUCT'L ENGINEER'S APPROVAL FOR PIPE SLEEVES W/ DIAMETERS BIGGER THAN THE MAXIMUM STIPULATED.
- PIPE SLEEVES SHALL BE LOCATED WITHIN TENSION ZONES OF BEAM.



BEAM CONSTRUCTION JOINT DETAIL



WALL SUPPORT AT BOTTOM OF BEAM/SLAB/COLUMN



SLAB OPENING DETAIL

NOTE:

- PROVIDE THESE ADDITIONAL BARS FOR ALL OPENINGS PLUS BARS (SHOWN AS DOTTED LINES) PARALLEL TO SIDE OF OPENING EQUAL TO THE NUMBER OF INTERRUPTED BARS BY THE OPENING.
- SEE ARCHITECTURAL & MECHANICAL PLANS FOR SLAB OPENING LOCATION.
- OMIT TRIMMER BARS WHERE OPENING IS FRAMED

L. DESIGN CRITERIA

DESIGN LOADS

- DEAD LOADS
 - a. CEILING 0.25 kPa
 - b. CONCRETE 0.023 kPa/mm
 - c. FINISHES 1.58 kPa
 - d. PARTITIONS 0.25 kPa
2. LIVE LOADS
 - a. CORRIDORS 4.80 kPa
 - b. REST ROOMS 1.82 kPa
 - c. LIGHT STORAGE 6.00 kPa
 - d. STAIRWAYS 4.80 kPa
 - e. ROOFING 1.90 kPa
 - f. ROOMS 1.90 kPa

- SEISMIC LOADS
SEISMIC PROBABILITY FOR ZONE IV
V = ZW/RT BASED ON 2010 NSCP

4. DESIGN STRESSES

a. CONCRETE

- UNLESS OTHERWISE INDICATED IN PLANS OR NOTED IN THE SPECIFICATIONS THE MINIMUM 28-DAYS CYLINDER COMPRESSIVE STRENGTH OF CONCRETE f_c SHALL BE AS FOLLOWS:
 - 1.1 FOR COLUMN/BEAMS 27.80 Mpa (4,000 psi)
 - 1.2 FOR SUSPENDED SLAB 27.80 Mpa (4,000 psi)
 - 1.3 FOR FOOTINGS 27.80 Mpa (4,000 psi)
 - 1.4 FOR WALL FOOTINGS 20.70 Mpa (3,000 psi)
 - 1.5 FOR SLAB-ON-GRADE/FILL, PARAPET WALLS, GUTTERS AND OTHER STRUCTURAL ELEMENTS 20.70 Mpa (3,000 psi)
 - 1.6 For MASONRY 5.18 Mpa (750 psi)

b. REINFORCING STEEL BARS

- ALL REINFORCING STEEL BARS SHALL BE NEW BILLET, HOT ROLLED, WELDABLE, DEFORMED BARS CONFORMING TO THE SPECIFICATIONS OF PNS 48: 1986 (ASTM 815) WHOSE GRADE IS SHOWN ON TABLE 2.

TABLE 2 : REINFORCING STEEL BARS

GRADE	BAR DIAMETER
GRADE 413.82 ($f_y = 60$ ksi)	16Ø mm & above MAIN STR'L BARS
GRADE 275.88 ($f_y = 40$ ksi)	12Ø mm & below TIES & HOOPS

- THE SUPPLEMENTARY REQUIREMENTS OF WELDABLE DEFORMED REINFORCING BARS SHALL BE AS FOLLOWS:
 - 2.1 THE MAXIMUM YIELD STRENGTH OF WELDABLE BARS = 540 MPa.
 - 2.2 THE TENSILE STRENGTH SHALL NOT BE LESS THAN 1.25 TIMES THE ACTUAL YIELD STRENGTH.

c. STRUCTURAL STEEL

- UNLESS OTHERWISE NOTED, ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING ASTM SPECIFICATIONS.

MEMBER	ASTM	MIN. STRENGTH
STRUCTURAL TUBING	A 500 (GRADE B)	36 KSI
STEEL PIPE	A 53 (TYPE E, GR. B)	36 KSI
OTHER ROLLED PLATES/SHAPES	A 36	36 KSI
CONNECTION BOLTS	A 325	105 KSI
ANCHOR BOLTS	A 325	105 KSI
THREADED RODS	A 36	36 KSI
NONSHRINK GROUT	C 1107	6000 PSI

STRUCTURAL ELEMENT DESIGNATION

ALT.	ALTERNATE	CS	COLUMN STRIP
B.W.	BOTH WAYS	CU. M.	CUBIC METER
2B-1	BEAM MARK	d_b	BAR DIAMETER
BB / B	BOTTOM BAR	DIA. or ϕ	DIAMETER
BM	BOTTOM MOST BAR	E.F.	EACH FACE
C-1	COLUMN MARK	E.W.	EACH WAY
CB-1	CANTILEVER BEAM/CORBEL	E.A.	EACH
CHB	CONCRETE HOLLOW BLOCK	EQ.	EQUAL
C.O.C.	CENTER ON CENTER	ISO. JT.	ISOLATION JOINT
COL.	COLUMN	kN	KILONEWTON
CONC.	CONCRETE	kPa	KILOPASCAL
CONT.	CONTINUOUS	Ksi	KIPS PER SQUARE INCH



TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY

CONCURRED BY:

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RECOMMENDING APPROVAL

DIR. JIMMY C. OROZCO
DIRECTOR IV, AS
CHIEF OF STAFF
DIRECTOR-IN-CHARGE: SP4

APPROVED BY:

SEC. ISIDRO S. LAPINA, PH.D., CSEE
DIRECTOR GENERAL

PROJECT TITLE:

PROPOSED TESDA INNOVATION CENTER - ISAT

LOCATION: Calapan City, Mindoro

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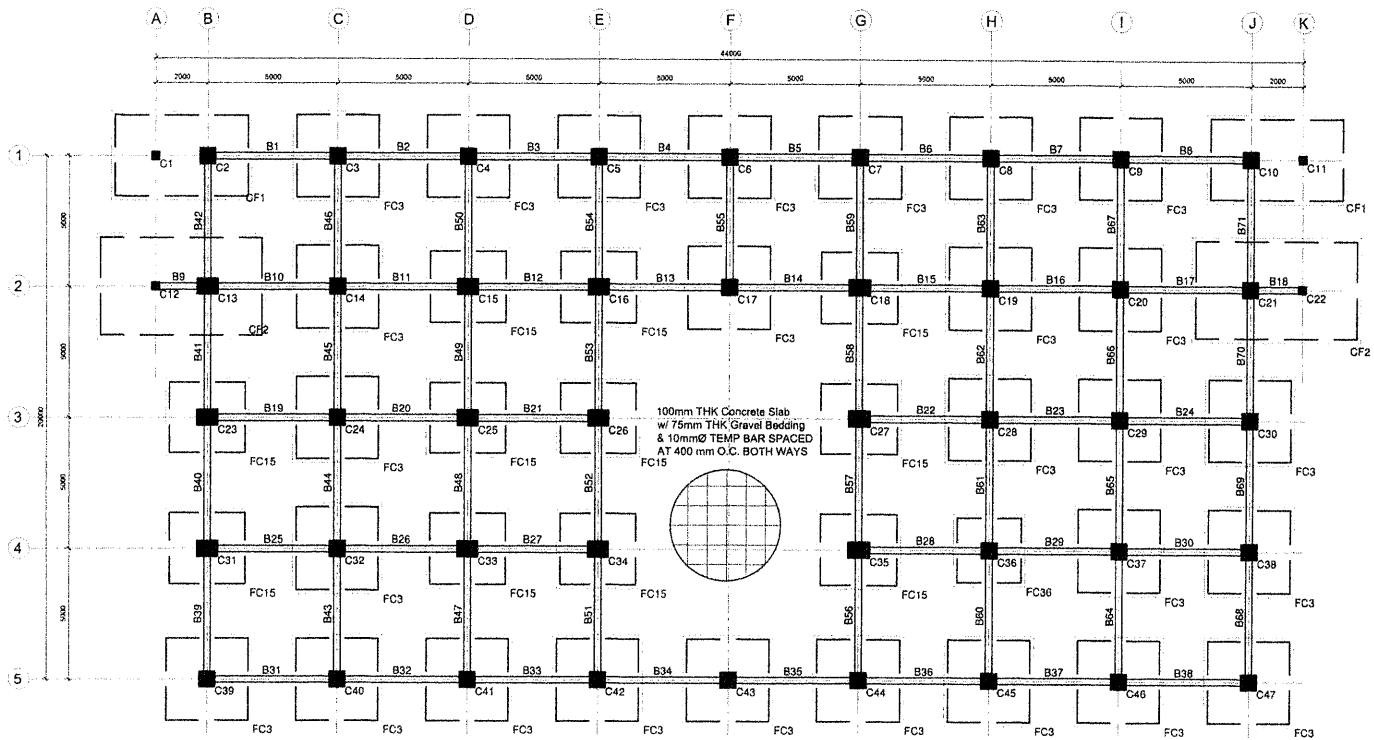
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SHEET CONTENTS:

GENERAL NOTES

SHEET NO.

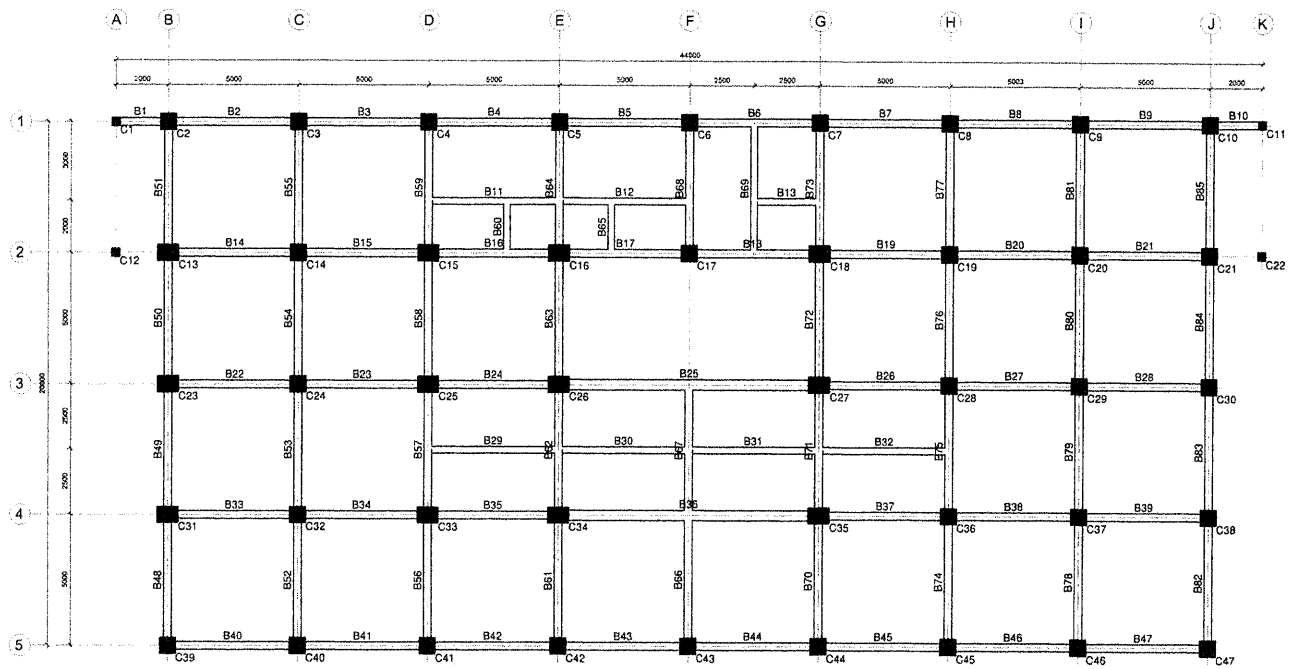
S-4



TESDA INNOVATION CENTER-ISAT
FOUNDATION PLAN

SCALE: 1:200 MTS

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TESDA INNOVATION CENTER-ISAT
SECOND FLOOR FRAMING PLAN
 SCALE: 1:200 MTS

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	 <small>DIR. DAVID B. BUNYALLION EXECUTIVE DIRECTOR, PAFESD</small>	 <small>DIR. JULIETO C. OROZCO DIRECTOR IV, AS CHIEF OF STAFF DIRECTOR-IN-CHARGE, SPU</small>	 <small>SEC. ISIDRO S. LAPEÑA, PhD., CSEE DIRECTOR GENERAL</small>	<small>PROPOSED TESDA INNOVATION CENTER - ISAT</small>	 <small>ENGR. SUNSHINE P. RIOSQUITA CIVIL ENGINEER, TESDA</small>	 <small>ENGR. FRANCISCO B. NARAG, JR. CIVIL ENGINEER, TESDA/ISAT</small>	 <small>ENGR. ROY LOUIS P. MINGARACAL HEAD, SPU/CCG</small>	<small>SECOND FLOOR FRAMING PLAN</small>	S-6	