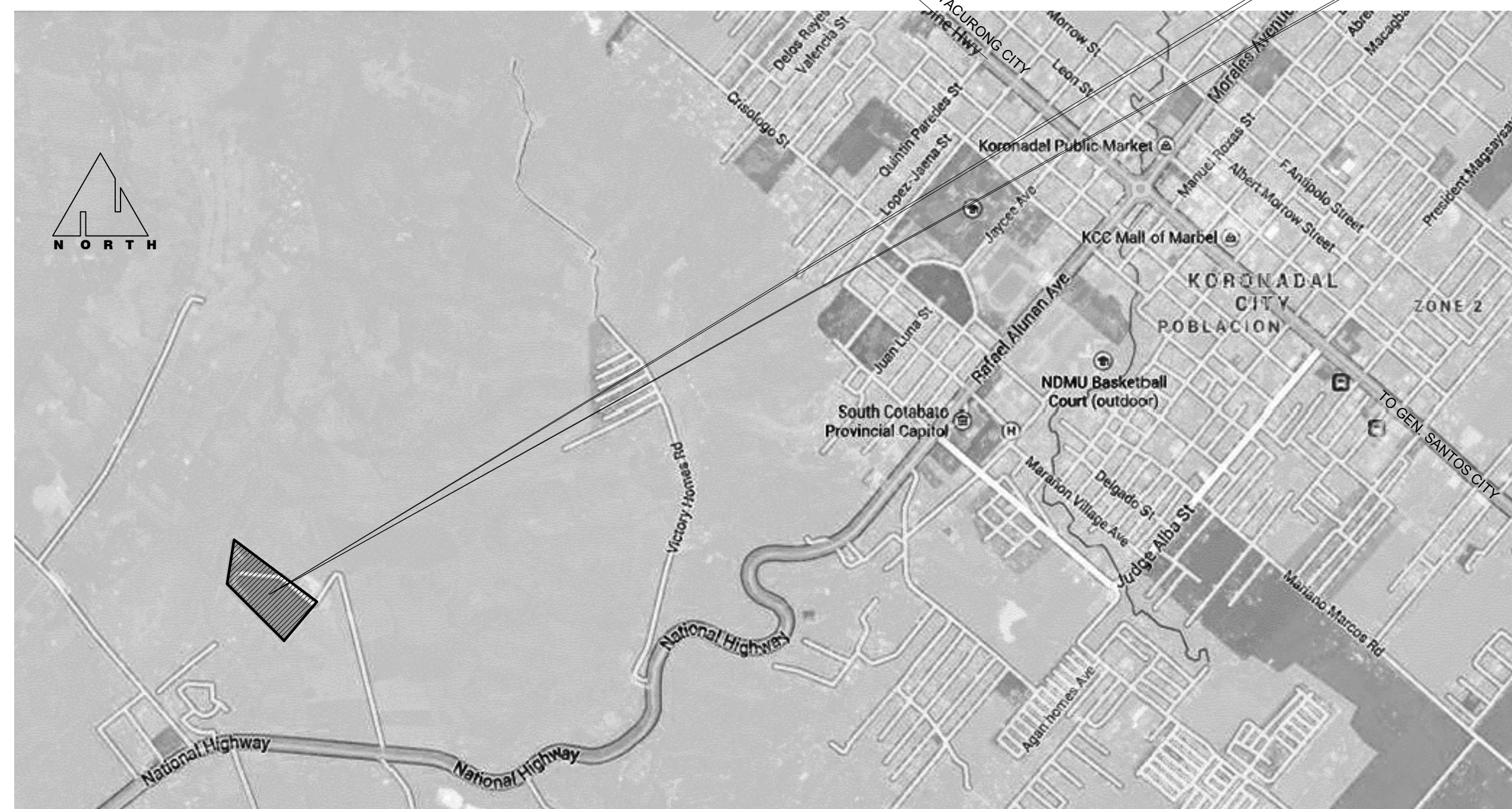
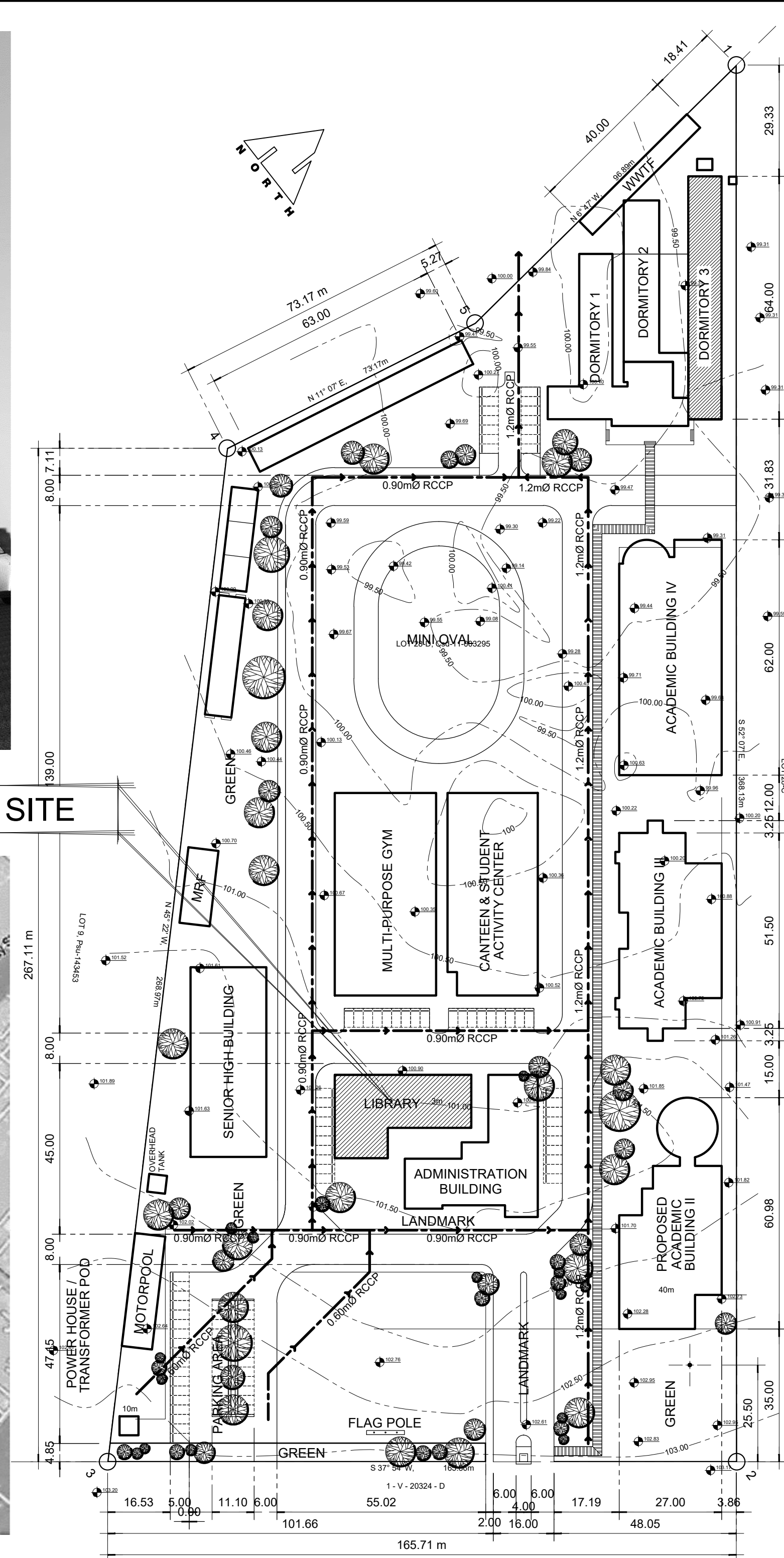




01 **PERSPECTIVE**
SCALE: NTS



02 **LOCATION PLAN**
SCALE: NTS



03 **SITE DEVELOPMENT PLAN**
SCALE: 1:1000

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LINE AND GRADE	
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MECHANICAL	
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O.R. | DATE: 141342 | 16 JULY 15
PTR: 7193602
DATE ISS: 10 JAN 2017
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TIN: 123-875-856

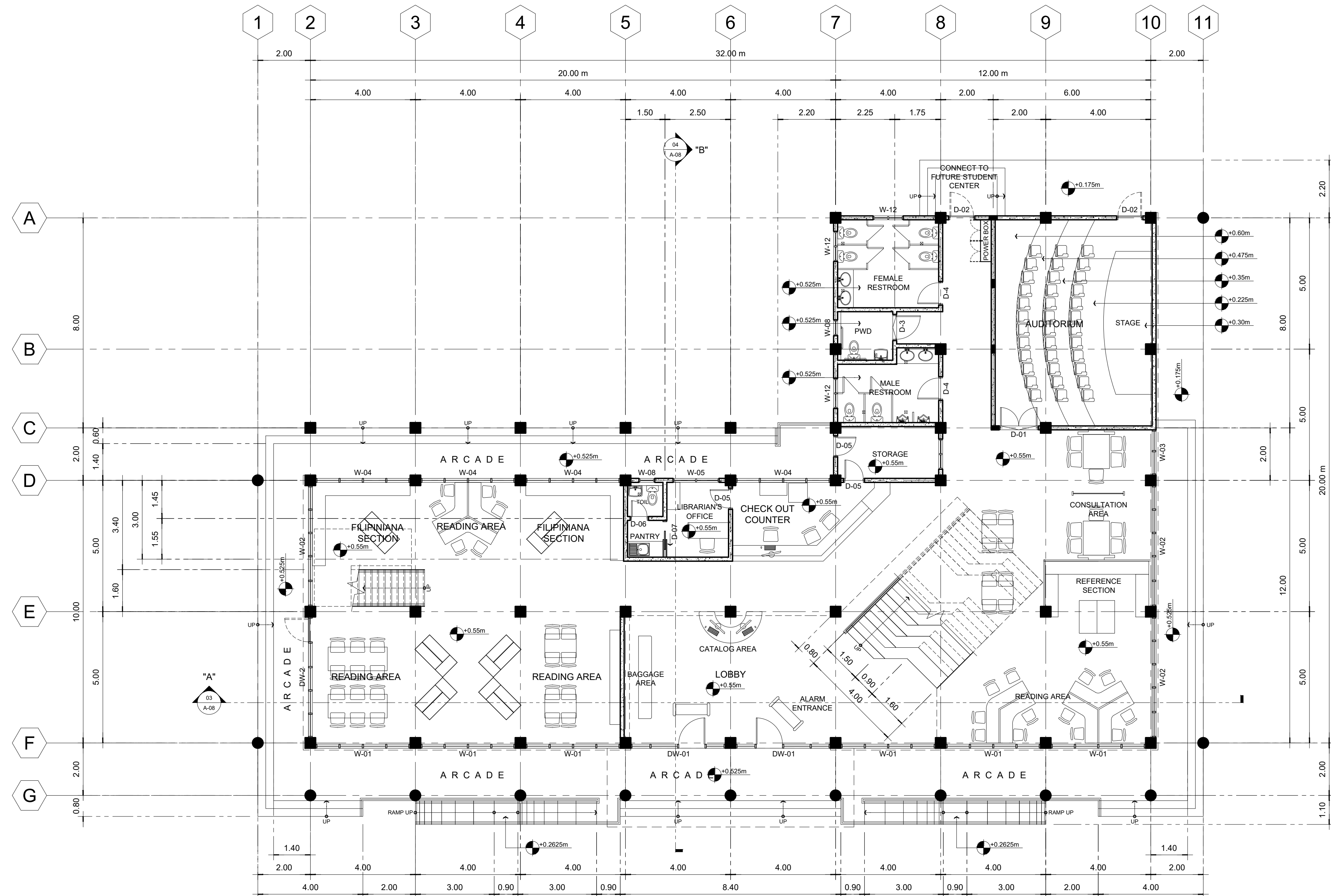
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PROJECT TITLE / LOCATION
LEARNING RESOURCE CENTER (LIBRARY) AND MULTI MEDIA CENTER
PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

APPROVED BY
CHUCHI P. GARGANERA, PH. D.
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PREPARED BY:
RANILE ESPINA CORDOVA, uap
JUNIOR ARCHITECT
CHECKED BY:
RESIDENT ENGINEER

SHEET NO.
A-02
02 26



01 **GROUND FLOOR PLAN**
A-02 SCALE: 1:100

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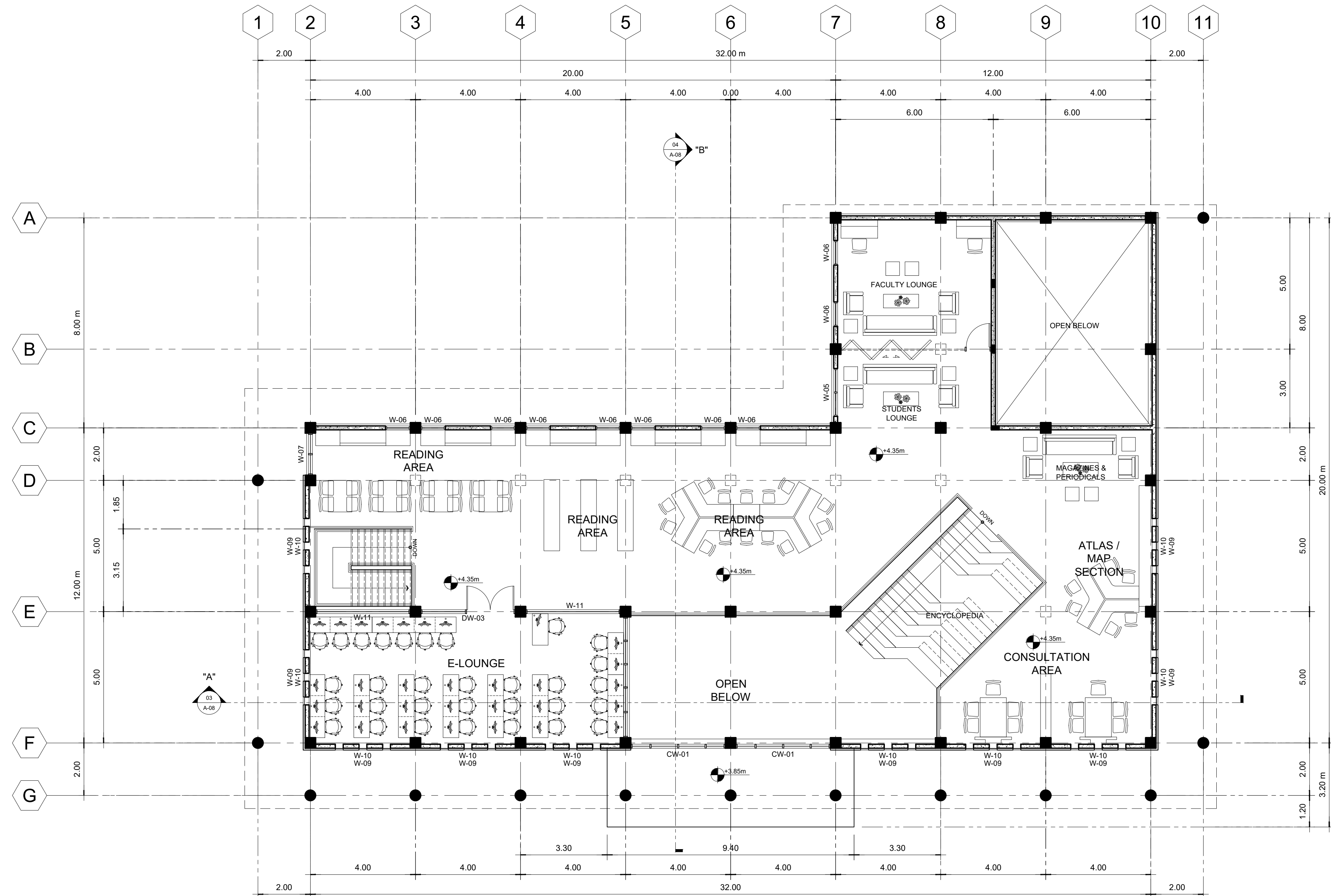
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JUNIOR ARCHITECT
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SHEET NO.
A-02
02 26



01 **SECOND FLOOR PLAN**
A-03 SCALE: 1:100



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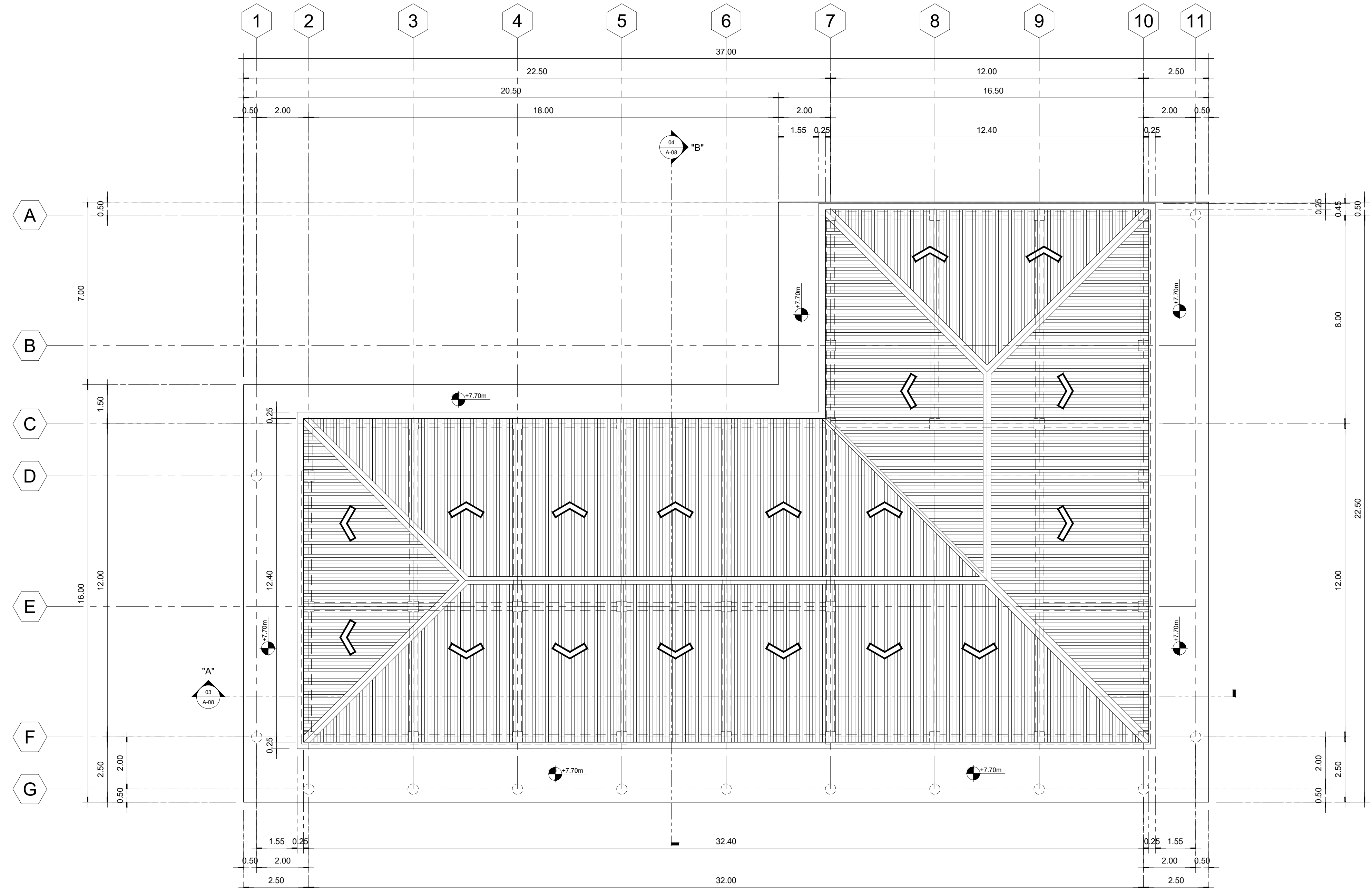
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CHECKED BY:

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SHEET NO.
A-03
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01 **ROOF PLAN**
A-04 SCALE: 1:100

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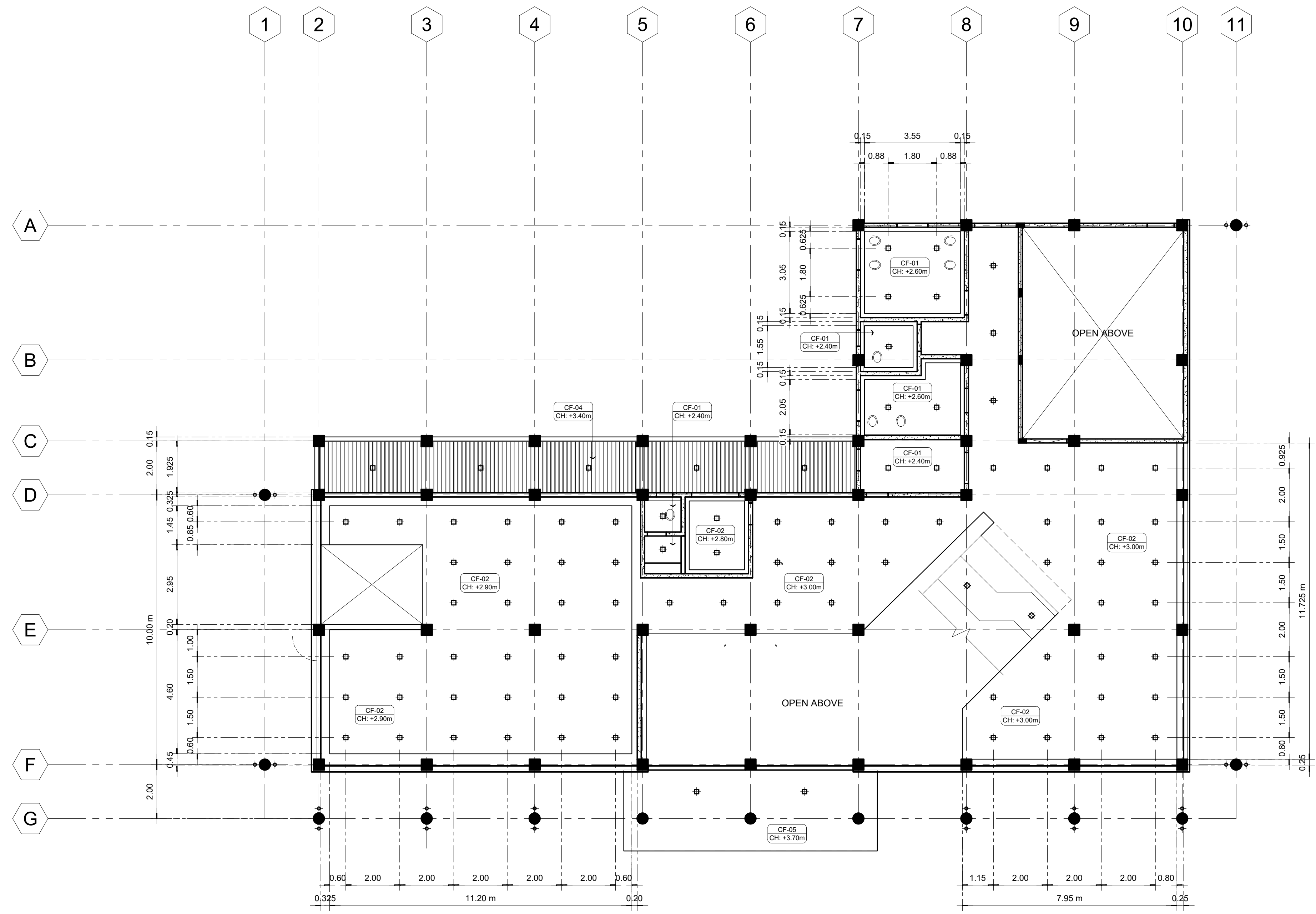
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SHEET NO.
A-04
04 26



- LEGEND:**
- CF-01
CH: X.XXm) 6mm FICEM BOARD ON METAL FRAMES
 - CF-02
CH: X.XXm) 12mm GYPSUM BOARD ON METAL FRAMES WITH 1/2" GROOVING SP. @ 400mm
 - CF-03
CH: X.XXm) 1200 x 600mm ACOUSTIC BOARDS ON ALUM. T-RUNNER
 - CF-04
CH: X.XXm) PVC SOFFIT ON METAL FRAMES
 - CF-05
CH: X.XXm) SLAB / CANOPY SOFFIT ON METAL FRAMES
 - 6" SQUARE PINLIGHT CASING WITH 9w LED BULB; DAYLIGHT
 - 1200 x 600mm LED PANEL; DAYLIGHT
 - WALL LAMP WITH 9w LED BULB; COOL WHITE

01 **GROUND FLOOR REFLECTED CEILING PLAN**
A-05 SCALE: 1:100

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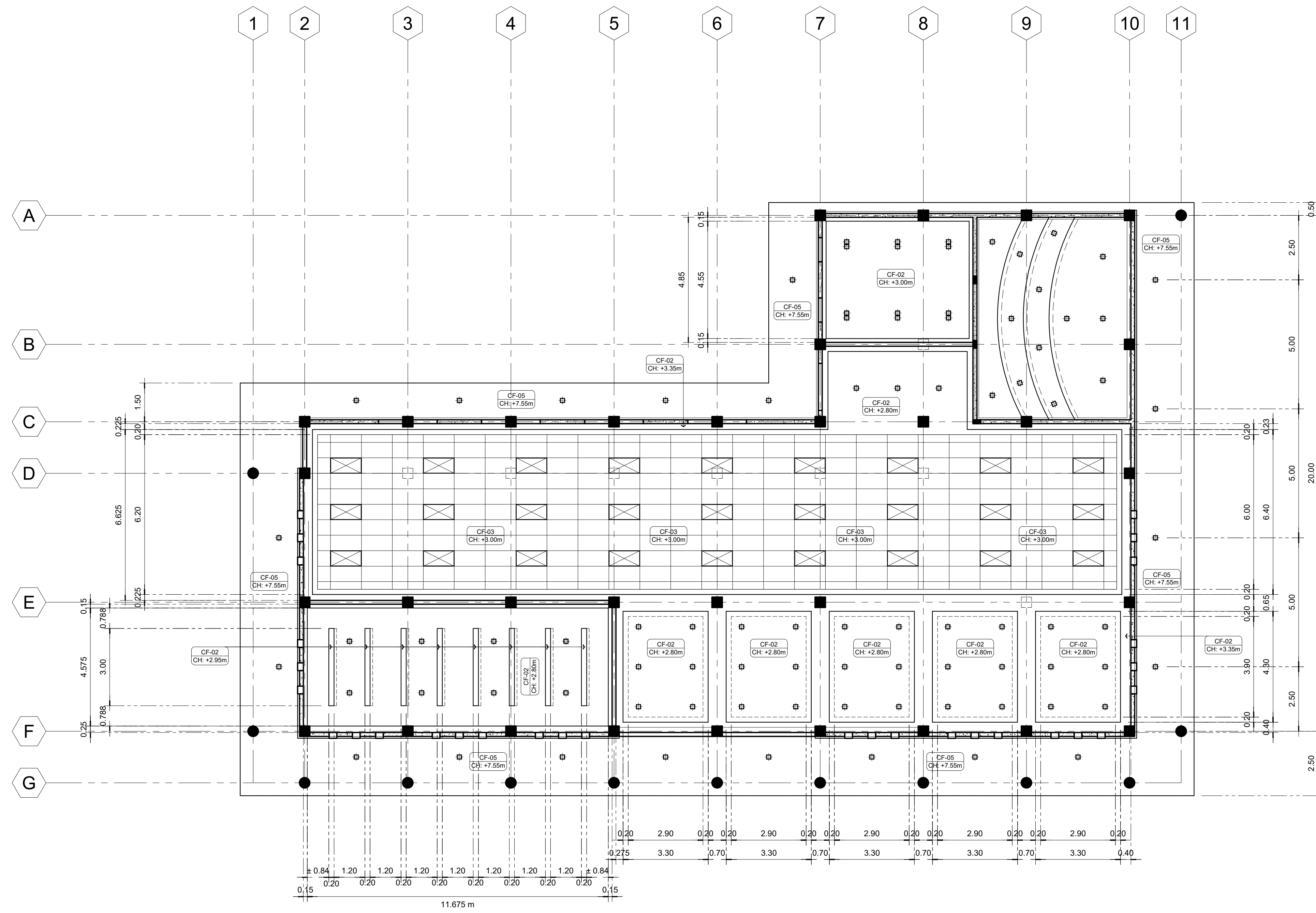
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JUNIOR ARCHITECT

CHECKED BY :

RESIDENT ENGINEER

SHEET NO.	A-05
05	26



- LEGEND:**
- CF-01
CH: X.XXm) 6mm FICEM BOARD ON METAL FRAMES
 - CF-02
CH: X.XXm) 12mm GYPSUM BOARD ON METAL FRAMES WITH 1/2" GROOVING SP. @ 400mm
 - CF-03
CH: X.XXm) 1200 x 600mm ACOUSTIC BOARDS ON ALUM. T-RUNNER
 - CF-04
CH: X.XXm) PVC SOFFIT ON METAL FRAMES
 - CF-05
CH: X.XXm) SLAB / CANOPY SOFFIT ON METAL FRAMES
 - 6" SQUARE PINLIGHT CASING WITH 9w LED BULB; DAYLIGHT
 - 1200 x 600mm LED PANEL; DAYLIGHT
 - WALL LAMP WITH 9w LED BULB; COOL WHITE

01 **SECOND FLOOR REFLECTED CEILING PLAN**
A-06 SCALE: 1:100

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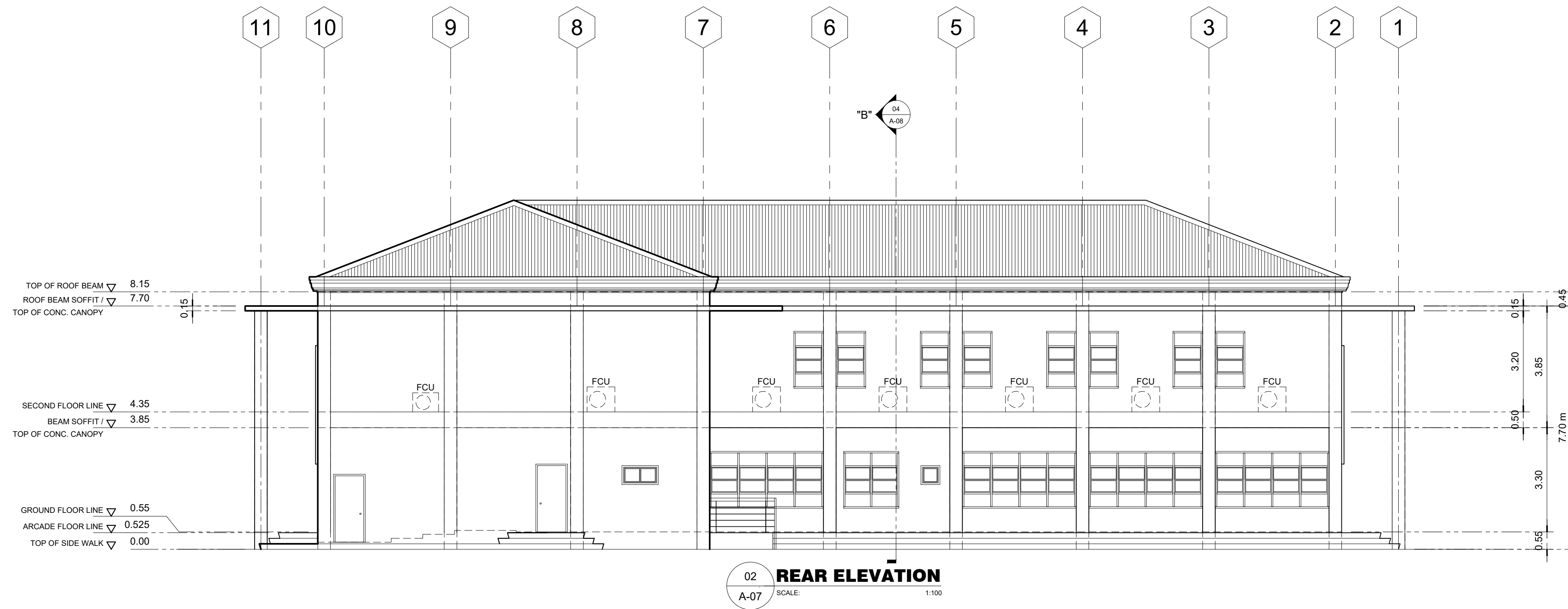
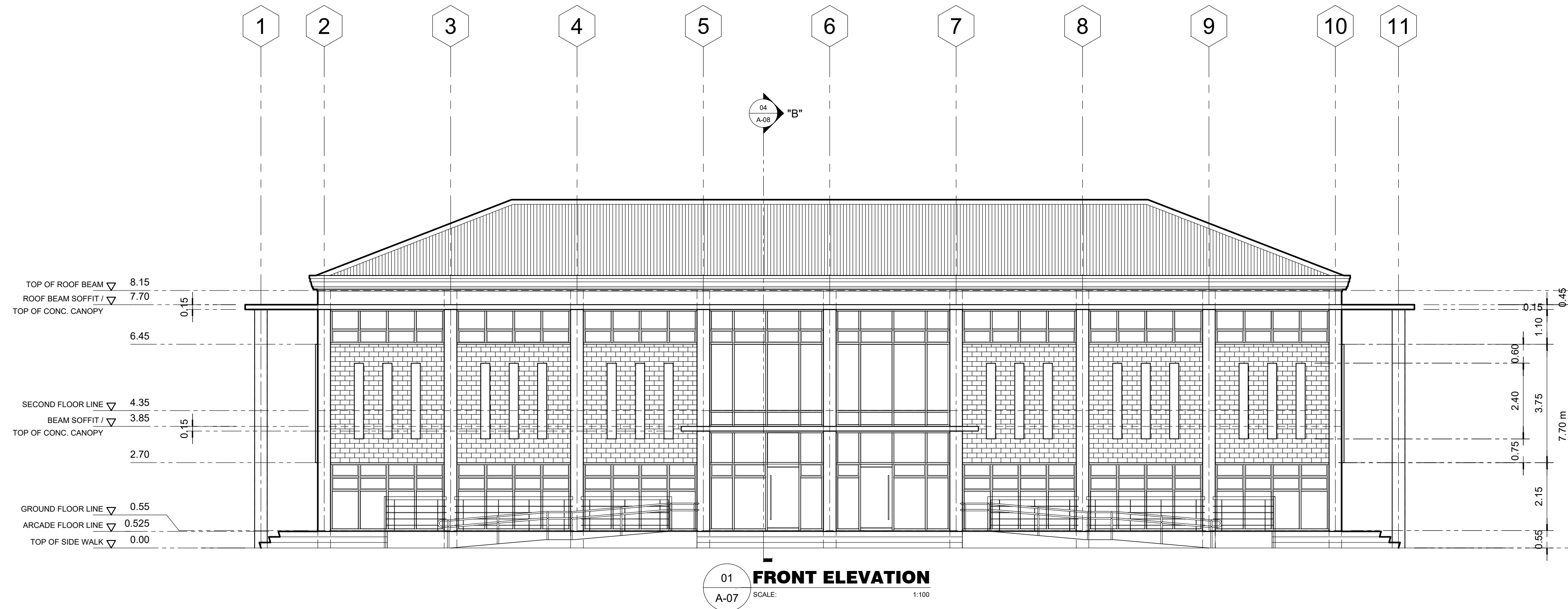
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SHEET NO.	A-06
	06 26



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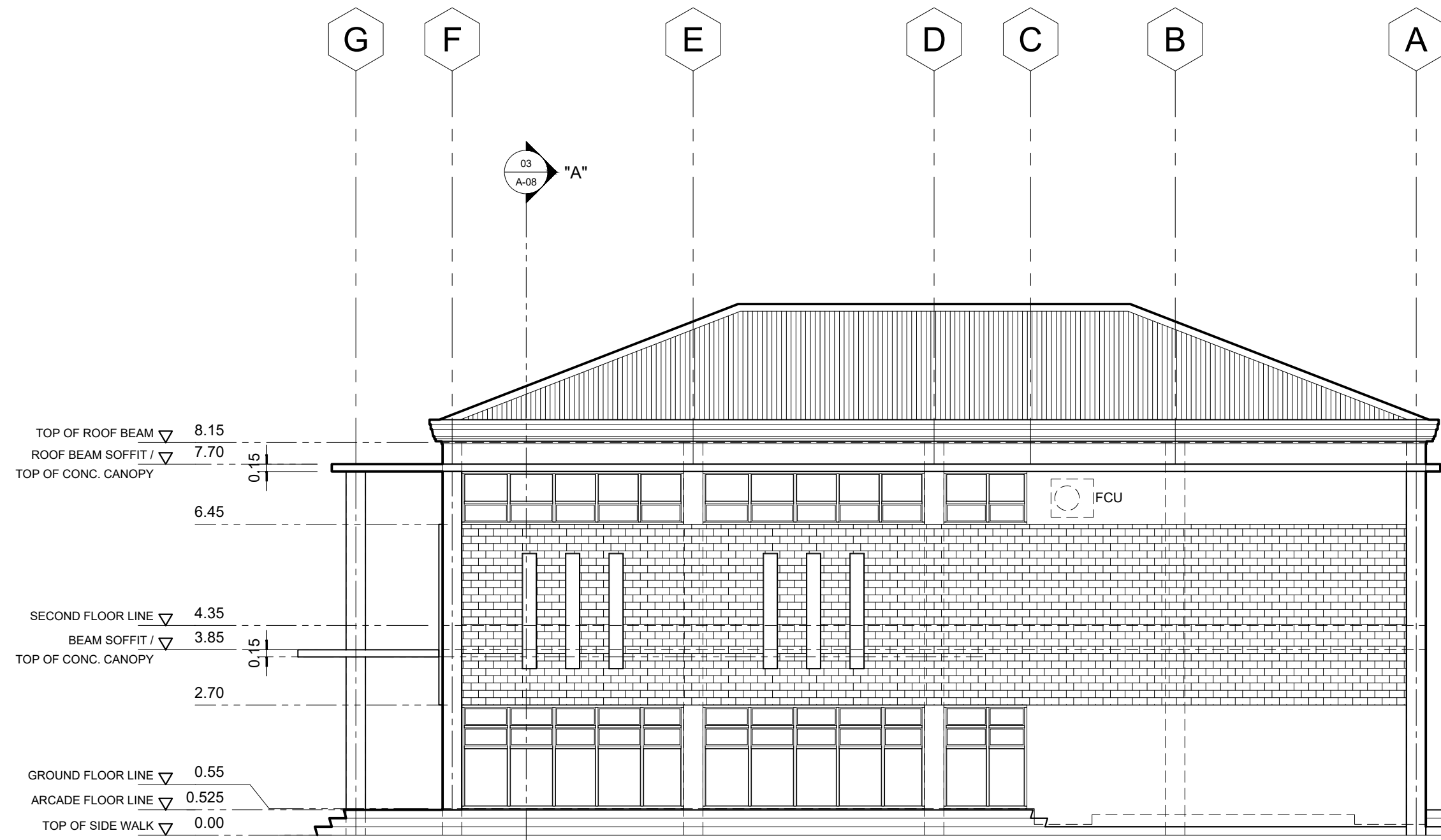
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A-07

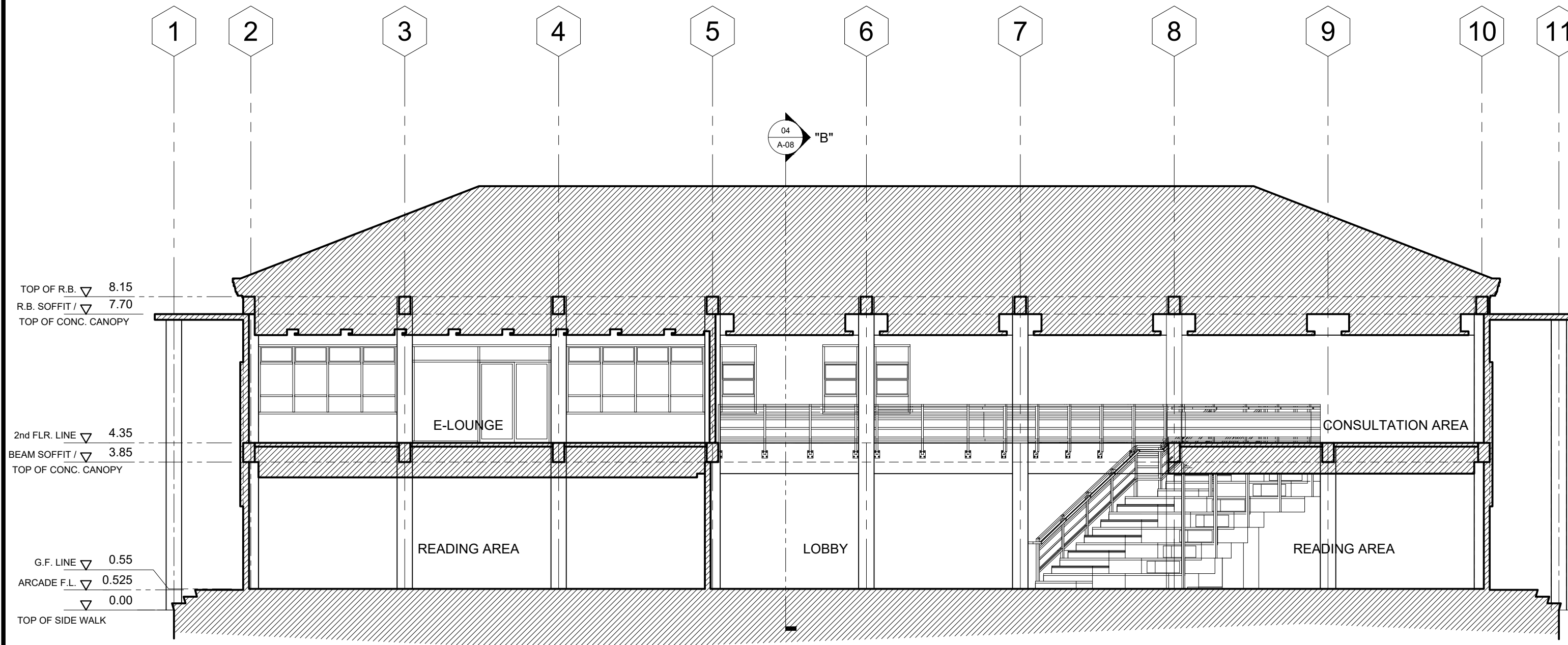
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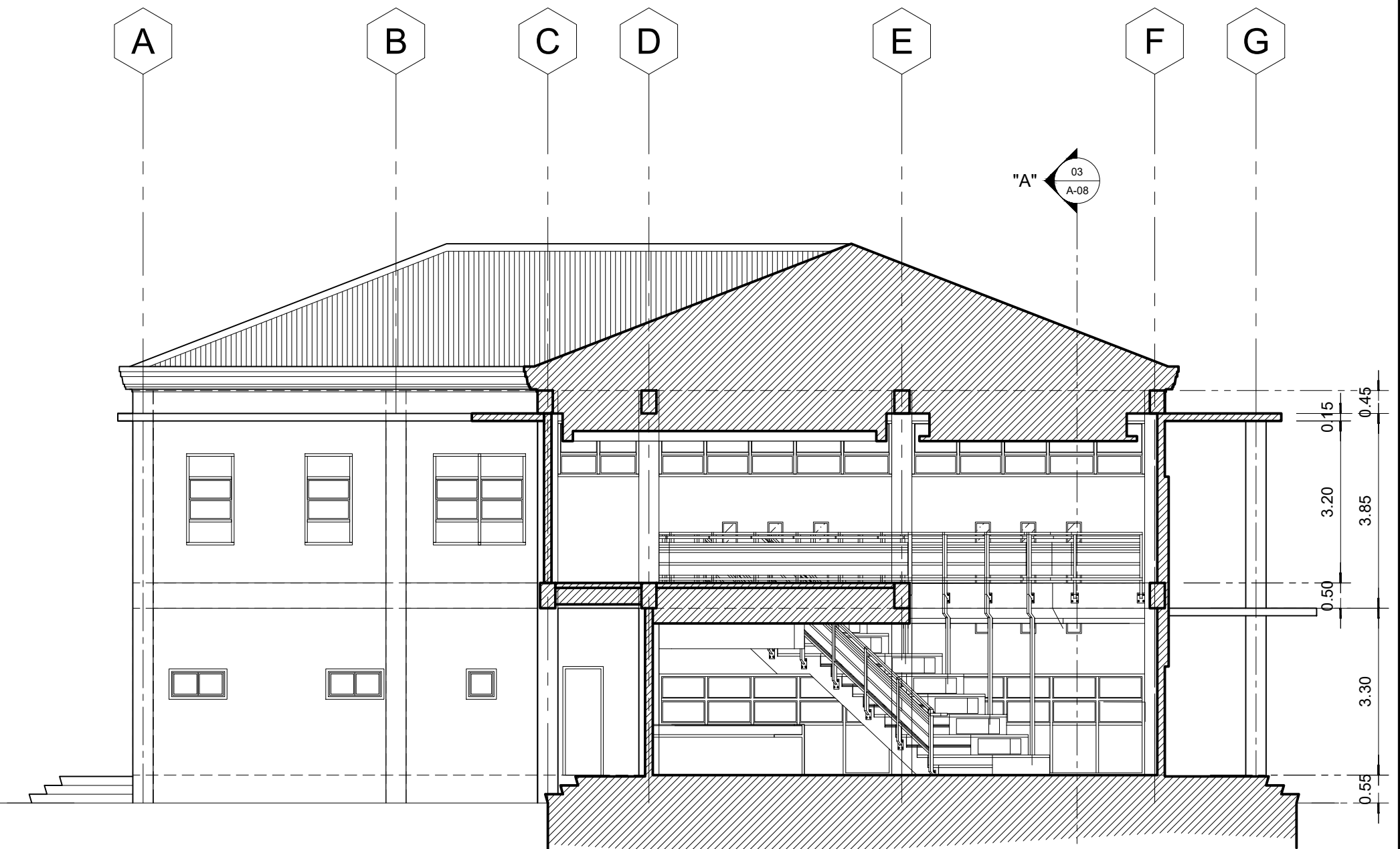
01 **RIGHT SIDE ELEVATION**
A-08 SCALE: 1:100



02 **LEFT SIDE ELEVATION**
A-08 SCALE: 1:100



03 **LONGITUDINAL SECTION THRU 'A'**
A-08 SCALE: 1:100



04 **TRANSVERSE SECTION THRU 'B'**
A-08 SCALE: 1:100



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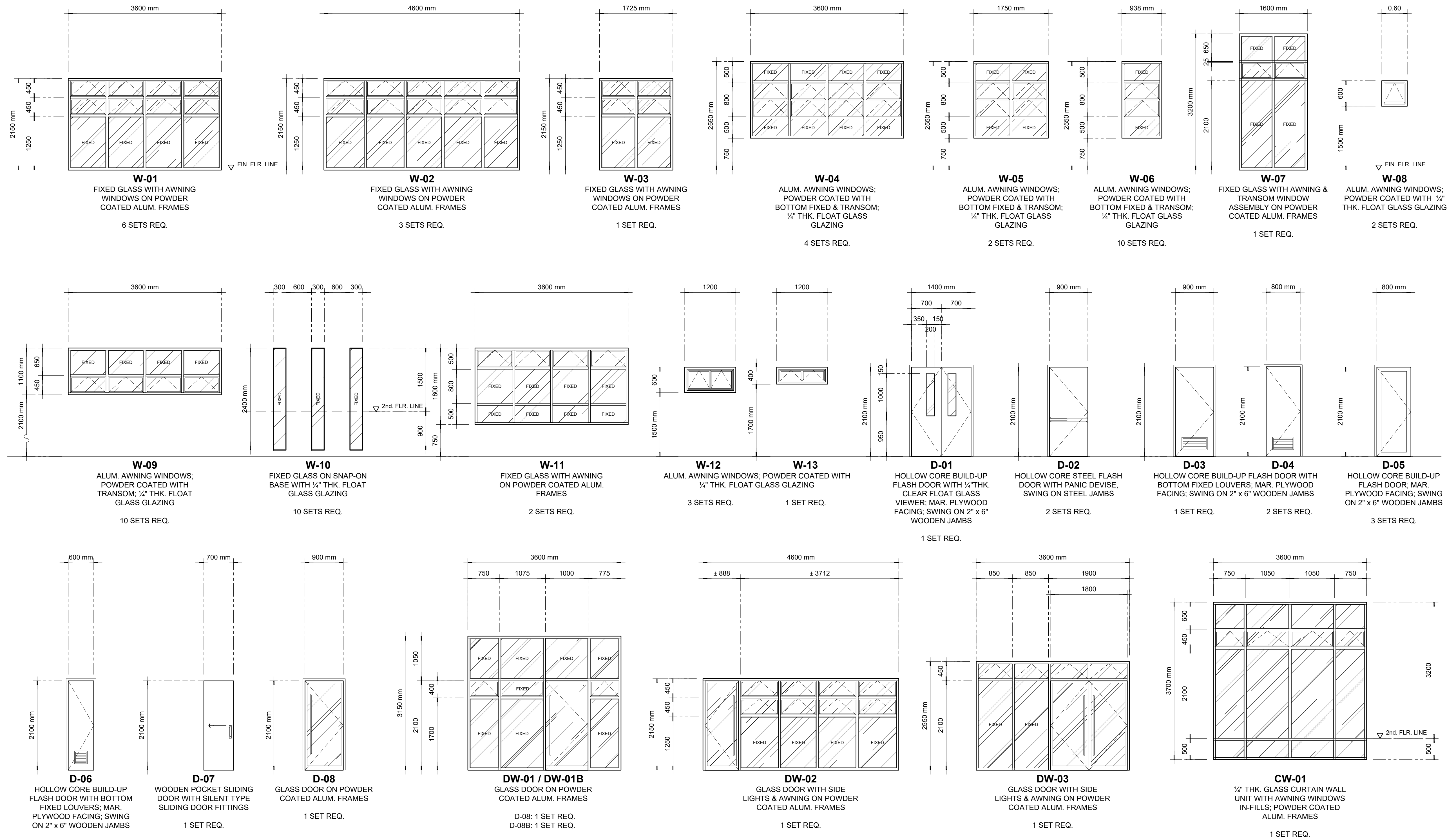
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SHEET NO.
A-08
08 26



01 SCHEDULE OF DOORS & WINDOWS
SCALE: 1:50

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27 P. ACHARON BOULEVARD, BRGY. DAD. SOUTH, GEN. SANTOS CITY ☎ No: 301-1917

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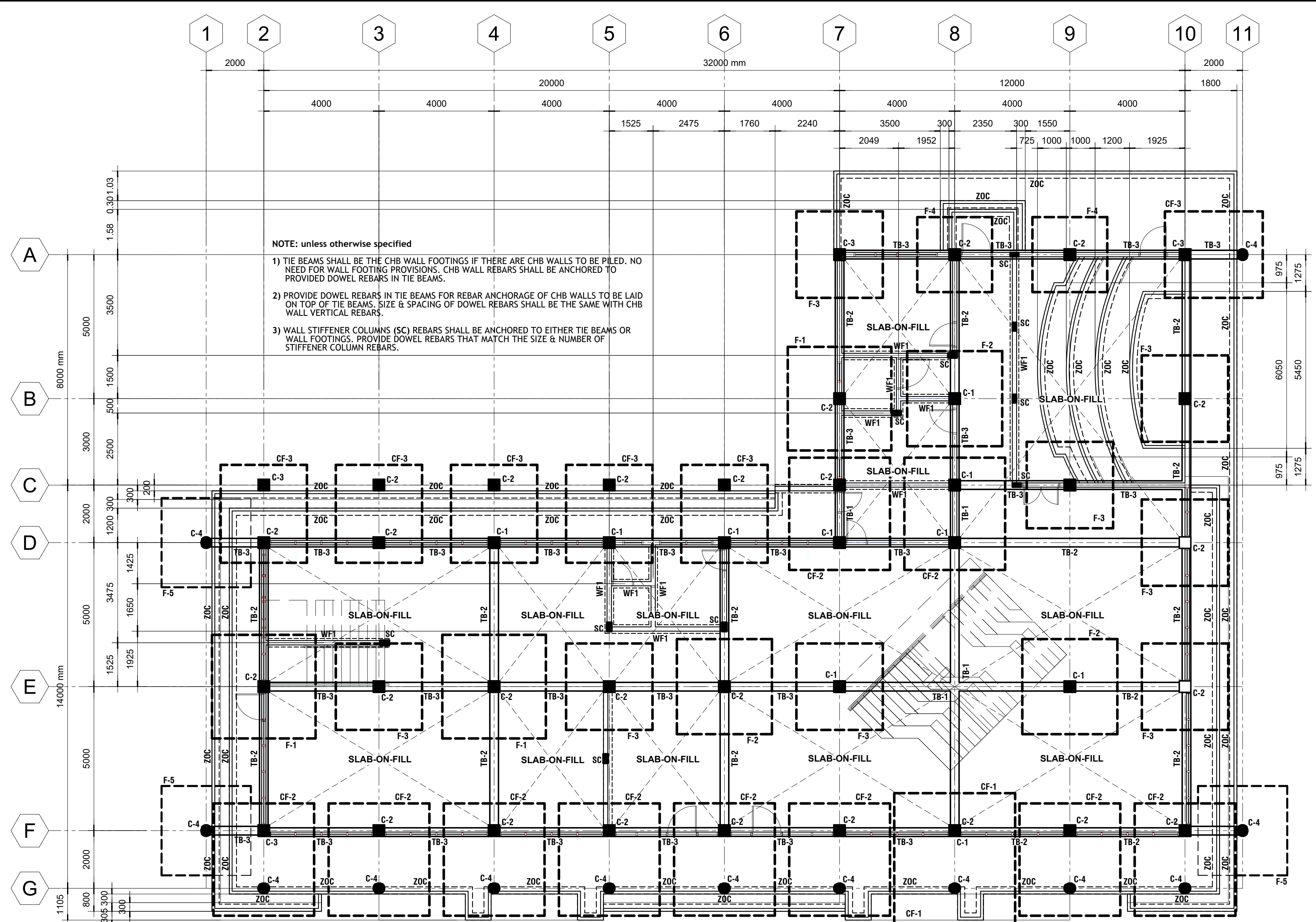
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SHEET NO.
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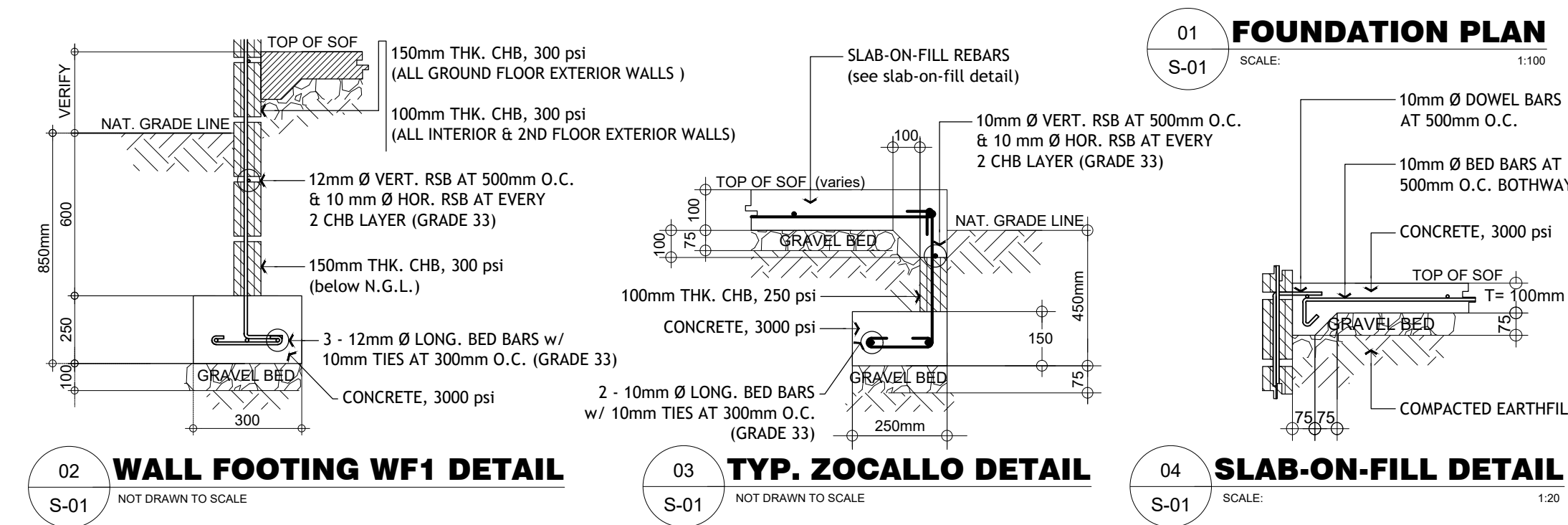


SCHEDULE OF GROUND FLOOR COLUMNS					
"MARK"	DIMENSIONS (b x d) & BAR ARRANGEMENT	REINFORCEMENTS	f _c (concrete)	f _y (steel bars)	
				main bars	stirrups
C-1		VERTICAL REBARS : 20 - 20MM Ø MAIN LATERAL TIES : 10MM Ø 5 @ 50MM, 10 @ 100MM, 5 @ 120MM, REST @ 150MM SECONDARY TIES : 10MM Ø ALTERNATE 5 @ 50MM, 10 @ 100MM, 5 @ 120MM, REST @ 150MM	3500 PSI OR 24.0 MPA	GRADE 40 OR 275 MPA	GRADE 33 OR 227 MPA
C-2		VERTICAL REBARS : 16 - 20MM Ø MAIN LATERAL TIES : 10MM Ø 5 @ 50MM, 10 @ 100MM, 5 @ 120MM, REST @ 150MM SECONDARY TIES : 10MM Ø ALTERNATE 5 @ 50MM, 10 @ 100MM, 5 @ 120MM, REST @ 150MM	3500 PSI OR 24.0 MPA	GRADE 40 OR 275 MPA	GRADE 33 OR 227 MPA
C-3		VERTICAL REBARS : 12 - 20MM Ø MAIN LATERAL TIES : 10MM Ø 5 @ 50MM, 10 @ 100MM, 5 @ 120MM, REST @ 150MM SECONDARY TIES : 10MM Ø ALTERNATE 5 @ 50MM, 10 @ 100MM, 5 @ 120MM, REST @ 150MM	3500 PSI OR 24.0 MPA	GRADE 40 OR 275 MPA	GRADE 33 OR 227 MPA
C-4		VERTICAL REBARS : 16 - 20MM Ø MAIN LATERAL TIES : 10MM Ø PITCH AT 80MM O.C. SECONDARY TIES : --	3500 PSI OR 24.0 MPA	GRADE 40 OR 275 MPA	GRADE 33 OR 227 MPA
SC		VERTICAL REBARS : 6 - 10MM Ø MAIN LATERAL TIES : 10MM Ø 5 @ 50MM, 10 @ 100MM, 5 @ 120MM, REST @ 150MM	3000 PSI OR 21.0 MPA	GRADE 33 OR 227 MPA	GRADE 33 OR 227 MPA

SCHEDULE OF TIE BEAMS							
MARK	DIMENSIONS (mm) B. Base D, Depth	DEPTH (mm)	LOCATION	MAIN REINFORCEMENTS			
				AT SUPPORTS	AT MID-SPAN	WEB BARS	
TB-1	350	500	600	TOP	5 - 20mm Ø CB	5 - 20mm Ø CB + 3 - 20mm Ø EB	2 - 16mm Ø CB
				BOTTOM	5 - 20mm Ø CB + 3 - 20mm Ø EB	5 - 20mm Ø CB	
TB-2	300	500	600	TOP	4 - 20mm Ø CB	4 - 20mm Ø CB + 3 - 20mm Ø EB	2 - 16mm Ø CB
				BOTTOM	4 - 20mm Ø CB + 3 - 20mm Ø EB	4 - 20mm Ø CB	
TB-3	300	450	600	TOP	4 - 20mm Ø CB	4 - 20mm Ø CB + 2 - 20mm Ø EB	2 - 16mm Ø CB
				BOTTOM	4 - 20mm Ø CB + 2 - 20mm Ø EB	4 - 20mm Ø CB	

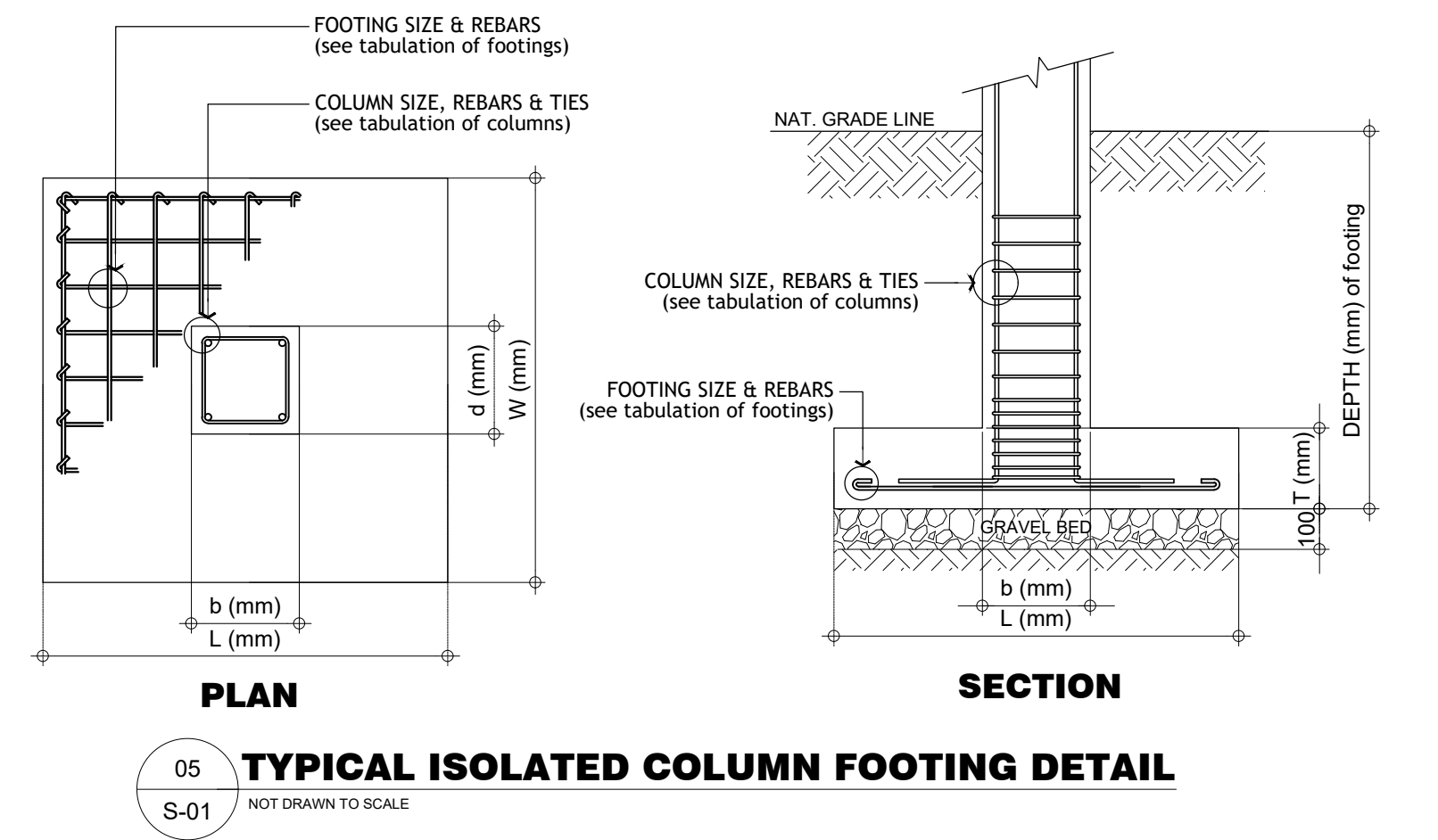
f_c (concrete) 3500 psi (24.0 MPa)
 f_y (main bars) GRADE 40 (275 MPa)
 f_y (stirrups) GRADE 33 (227 MPa)

*** 10mm Ø STIRRUPS: 5 @ 75mm, 10 @ 100mm, REST @ 120mm O.C.

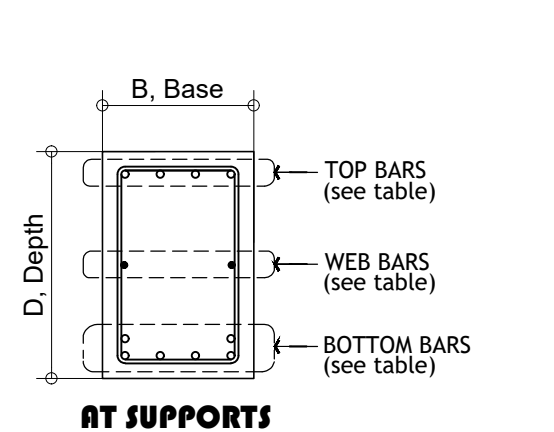


SCHEDULE OF FOOTINGS							
MARK	DIMENSIONS (mm)			DEPTH (mm)	MAIN REINFORCEMENTS		REMARKS
	L	W	T		ALONG LONG DIRECTION	ALONG SHORT DIRECTION	
CF-1	4600	4200	400	2000	18 - 16mm Ø TOP BARS & 24 - 20mm Ø BOTTOM BARS O.C.	20 - 16mm Ø TOP BARS & 28 - 20mm Ø BOTTOM BARS O.C.	COMBINED FOOTINGS
CF-2	3900	3500	400	2000	16 - 16mm Ø TOP BARS & 20 - 20mm Ø BOTTOM BARS O.C.	18 - 16mm Ø TOP BARS & 22 - 20mm Ø BOTTOM BARS O.C.	
CF-3	3400	3000	400	2000	14 - 16mm Ø TOP BARS & 14 - 16mm Ø BOTTOM BARS O.C.	18 - 16mm Ø TOP BARS & 20 - 16mm Ø BOTTOM BARS O.C.	
F-1	3600	3600	500	2000	18 - 20mm Ø BED BARS O.C. BOTHWAYS		ISOLATED FOOTINGS
F-2	3300	3300	500	2000	16 - 20mm Ø BED BARS O.C. BOTHWAYS		
F-3	3000	3000	400	2000	14 - 20mm Ø BED BARS O.C. BOTHWAYS		
F-4	2600	2600	400	2000	12 - 20mm Ø BED BARS O.C. BOTHWAYS		
F-5	3100	3100	400	2400	15 - 20mm Ø BED BARS O.C. BOTHWAYS		

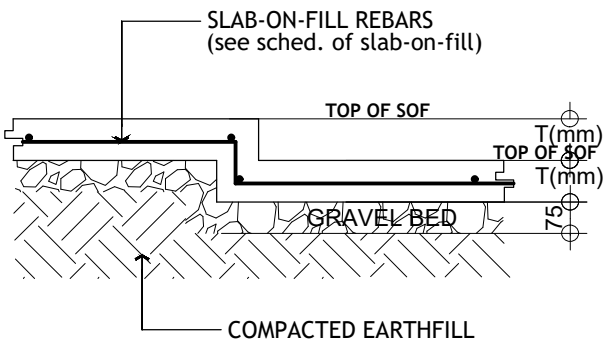
NOTE:
 f_c (concrete) 3500 psi (24.0 MPa)
 f_y (rebars) GRADE 40 (275 MPa)



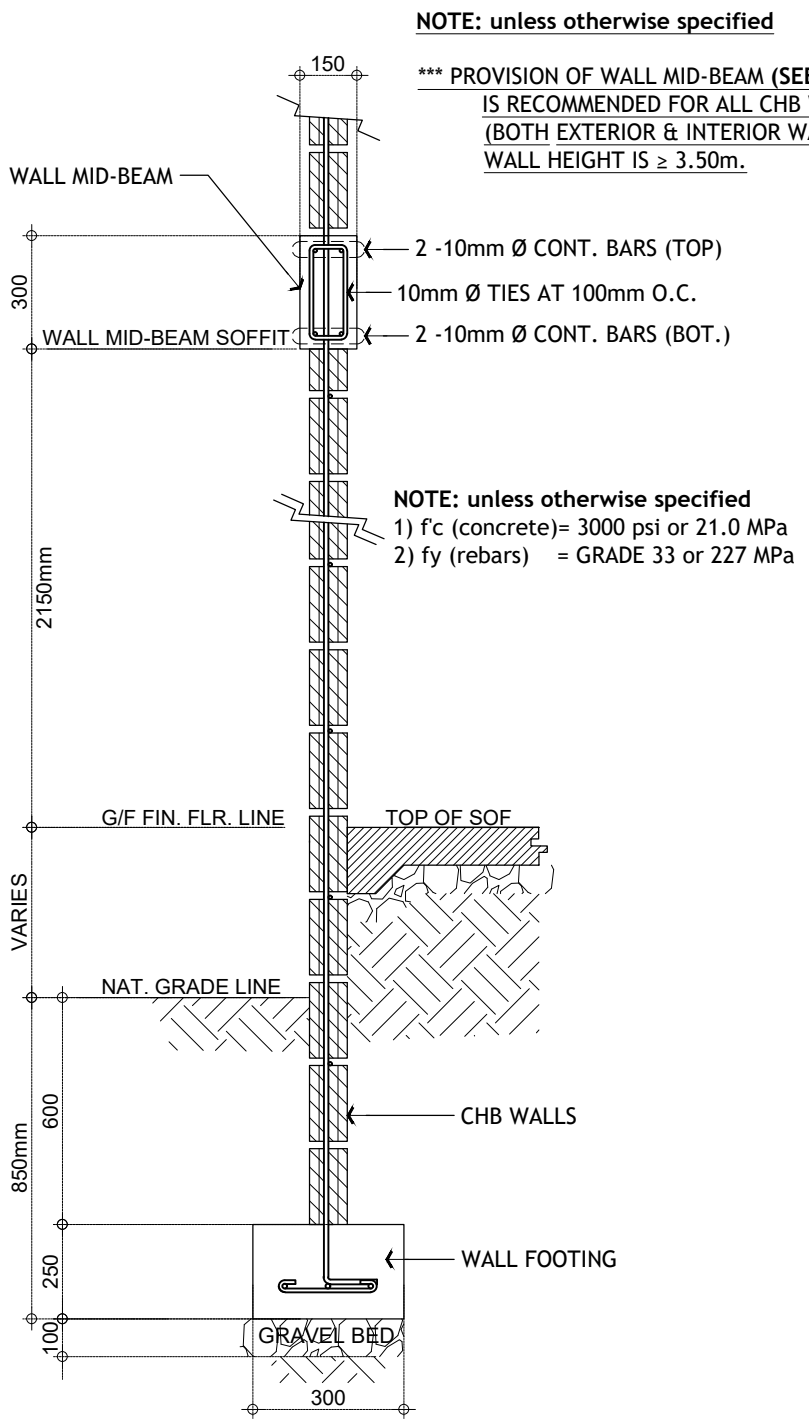
<p>PLANS • DESIGNS • ESTIMATES • CONSTRUCTION MANAGEMENT • DESIGNS BUILT • PLUMBING DESIGN</p> <p>27 P. ACHARON BOULEVARD, BRGY. DAD. SOUTH, GEN. SANTOS CITY ☎ 301-1917</p>	<p>MICHAEL T. ANG, fuap ARCHITECT</p>	PRC: 8270 VALIDITY: 08 MAY 2018 IAPOA: 04440 141342 071619 O.R. DATE: 141342 16JULY15 PTR: 6600933 DATE ISS: 05 JAN 2016 PLACE ISS: GSC TIN: 123-875-856	SECTION 33 of RA 9266 Drawing & specifications & other contract documents duly signed, stamp or sealed, as instruments of service, are the intellectual property and documents of the architect, whether the object for which they are made is executed or not it shall be unlawful for any person to duplicate or to make copies of said documents for use in the repetition of & for other projects or buildings, whether executed partly or in whole, without the written consent of architect or author of said documents.	PROJECT TITLE / LOCATION PROPOSED LEARNING RESOURCE (LIBRARY) AND MULTIMEDIA CENTER PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City	APPROVED BY CHUCHI P. GARGANERA, PH. D. DIRECTOR III ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City	PREPARED BY: _____ CHECKED BY: _____ RESIDENT ENGINEER	SHEET NO. S-01 10 26
		JAMES P. PACIS, PICE, ASEP CIVIL/STRUCTURAL ENGINEER P.R.C. No.: 52853 ASEP: 52853-111 P.T.R. No.: 7212178 DATE: 01-11-2017 ISS. AT: G.S.C. T I N No.: 102-900-986					



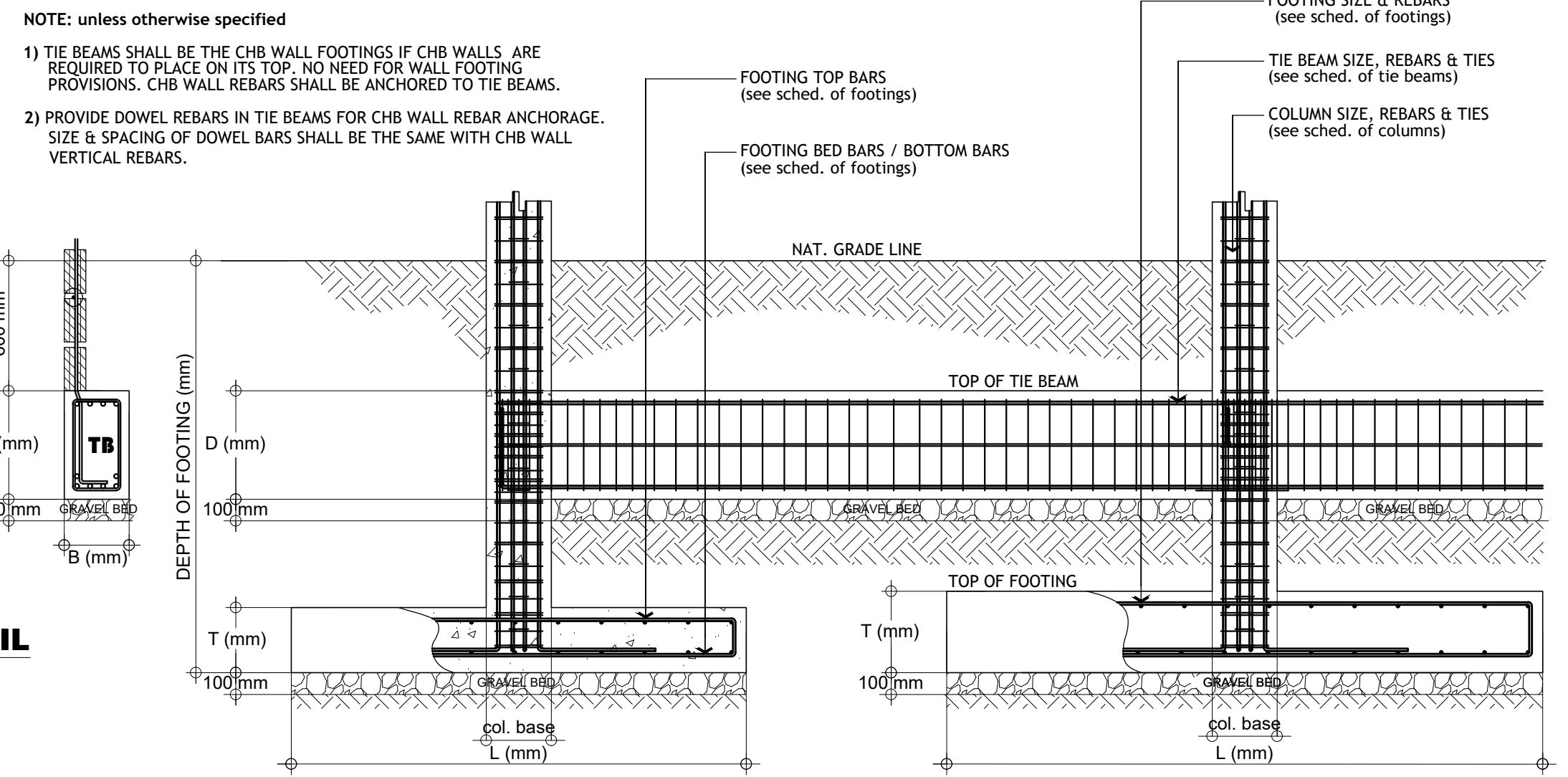
01 TYP. TIE BEAM SECTION DETAIL
S-02 NOT DRAWN TO SCALE



02 TYPICAL SLAB-ON-FILL CHANGE IN ELEVATION DETAIL
S-02 NOT DRAWN TO SCALE



03 TYP. WALL MID-BEAM DET.
S-02 NOT DRAWN TO SCALE



04 TYPICAL FOOTING, COLUMN & TIE BEAM DETAIL
S-02 NOT DRAWN TO SCALE

CONSTRUCTION NOTES:

A. GENERAL

- CONSTRUCTION NOTES AND TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED. MODIFY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.
- SHOP DRAWINGS WITH ERECTION AND PLACING DIAGRAMS OF ALL STRUCTURAL STEEL, MISCELLANEOUS IRON, PRE-CAST CONCRETE ETC SHALL BE SUBMITTED FOR ENGINEER'S APPROVAL BEFORE FABRICATION.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE ALL WORK IS TO BEGIN, CHECK WITH MECHANICAL AND ELECTRICAL CONTRACTORS FOR CONDUITS, PIPE SLEEVES, ETC TO BE EMBEDDED IN CONCRETE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORINGS AND BRACINGS OF THE STRUCTURE FOR ALL LOADS THAT MAY BE IMPOSED DURING CONSTRUCTION.

B. CONCRETE & REINFORCEMENTS

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM WITH THE LATEST BUILDING CODE OF THE PHILS. AND BUILDING CODE OF AMERICAN CONCRETE INSTITUTE (ACI-318).
- CONCRETING OF ALL MAIN STRUCTURAL MEMBERS SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH (f_c) OF 3500 psi (24.0 MPa), WHILE ALL SECONDARY STRUCTURES SUCH AS WALL FOOTING, LINTEL BEAM, STIFFENER COLUMNS AND SLAB-ON-FILL SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH (f_c) OF 3000 psi (21.0 MPa) AT THE END OF TWENTY-EIGHT (28) DAYS, UNLESS OTHERWISE SPECIFIED.
- ALL REINFORCING BARS SHALL CONFORM TO THE ASTM A615 (PNS 49). ALL MAIN REBARS $\geq 16mm \text{ } \phi$ SHALL HAVE A MINIMUM YIELD STRENGTH (f_y) OF GRADE 40 (275 MPa). ALL MAIN REBARS $\leq 12mm \text{ } \phi$, SECONDARY REBARS AND STIRRUPS SHALL HAVE A MINIMUM YIELD STRENGTH (f_y) OF GRADE 33 (227 MPa), UNLESS OTHERWISE SPECIFIED.
- MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL BARS AS FOLLOW:

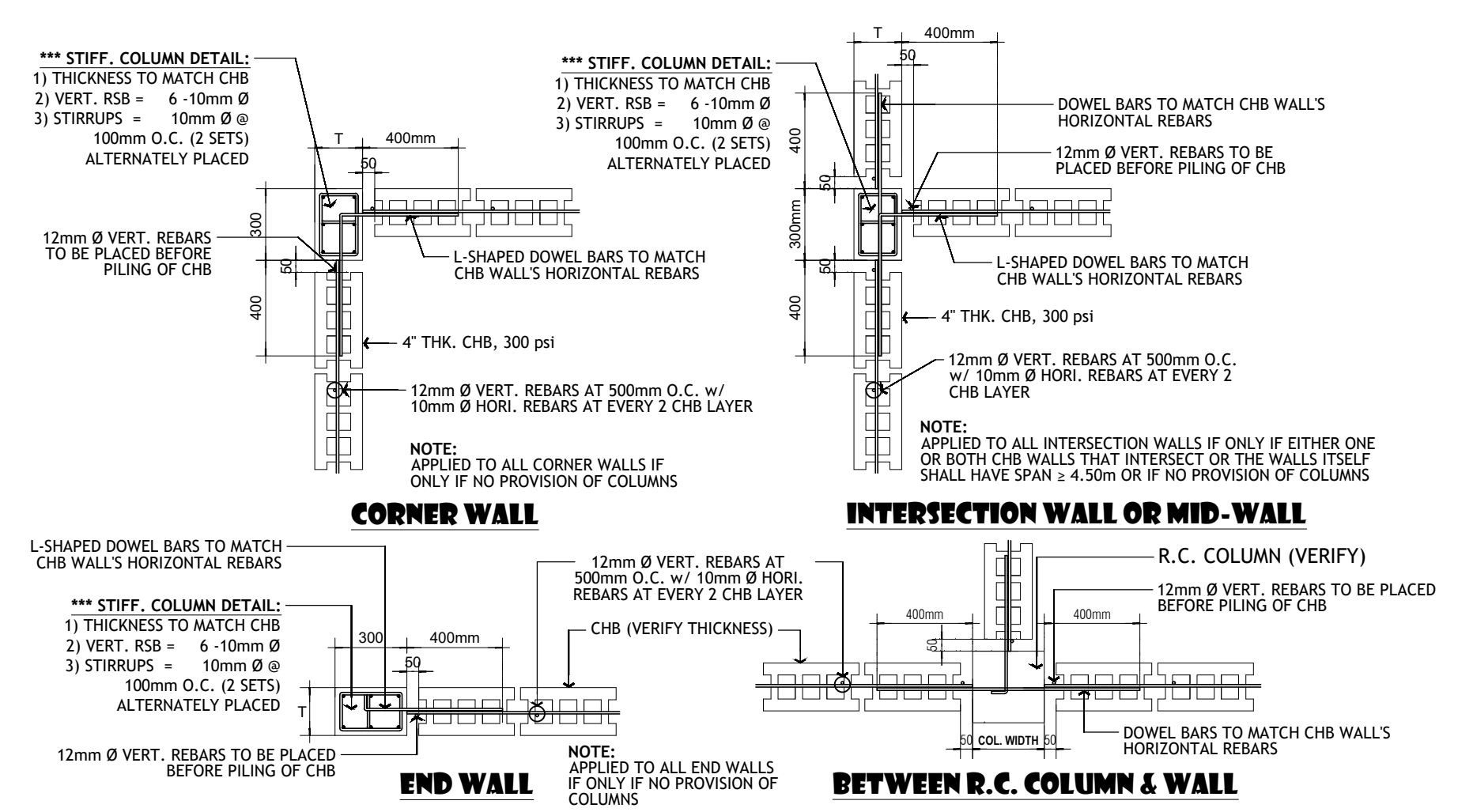
SUSPENDED SLABS	3"	(20mm)
SLAB-ON-FILL	1 1/2"	(40mm)
WALLS ABOVE GRADE & SHEARWALL	1"	(25mm)
COLUMN & BEAMS STIRRUPS	1 1/2"	(40mm)
WHERE CONCRETE IS EXPOSED TO EARTH BUT POURED AGAINST FORMS	2"	(50mm)
WHERE CONCRETE IS DEPOSITED DIRECTLY AGAINST EARTH	2"	(75mm)
- SPLICES SHALL BE SECURELY WIRED TOGETHER AND SHALL LAP OR EXTEND IN ACCORDANCE WITH THE ALLOWABLE LAP SPLICES AND ANCHORAGE LENGTH, UNLESS OTHERWISE SHOWN ON DRAWINGS. SPLICE SHALL BE STAGGERED WHENEVER POSSIBLE.
- ALL ANCHOR BOLTS, DOWELS AND OTHER INSERTS, SHALL BE PROPERLY POSITIONED

AN SECURED IN PLACE PRIOR TO PLACING OF CONCRETE.

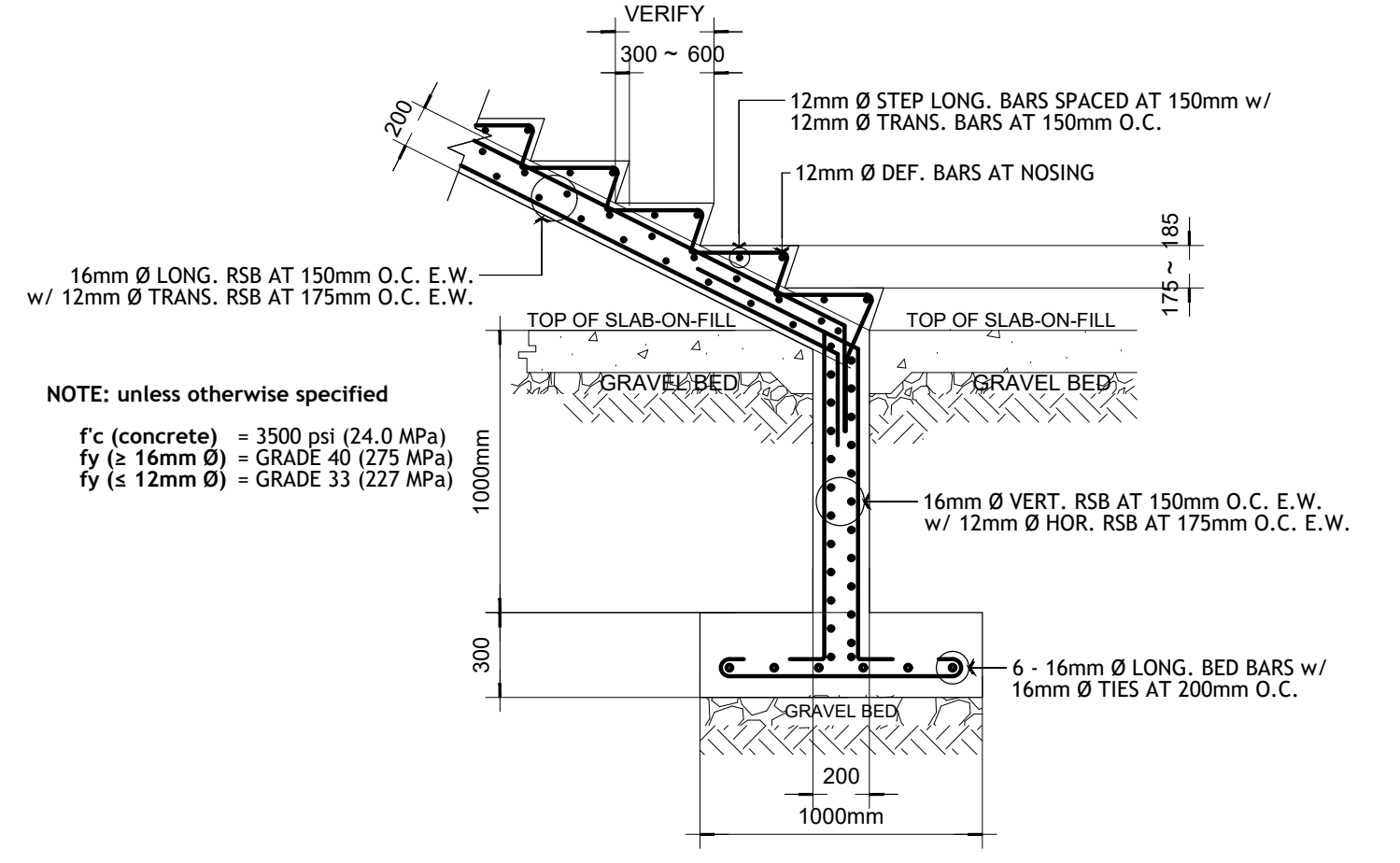
C. FOUNDATION

- FOUNDATION IS DESIGNED FOR A MINIMUM ALLOWABLE SOIL BEARING CAPACITY OF 110.0 kPa (ASSUMED VALUE).
- FOUNDATION SHALL REST ON NATURAL SOIL, UNLESS OTHERWISE NOTED BY THE STRUCTURAL ENGINEER. NO PART OF THE FOUNDATION SHALL REST ON FILL.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AFTER FOOTING EXCAVATION HAVE BEEN COMPLETED AND PRIOR TO CONCRETING TO CONFIRM THE DESIGN SOIL BEARING CAPACITY.

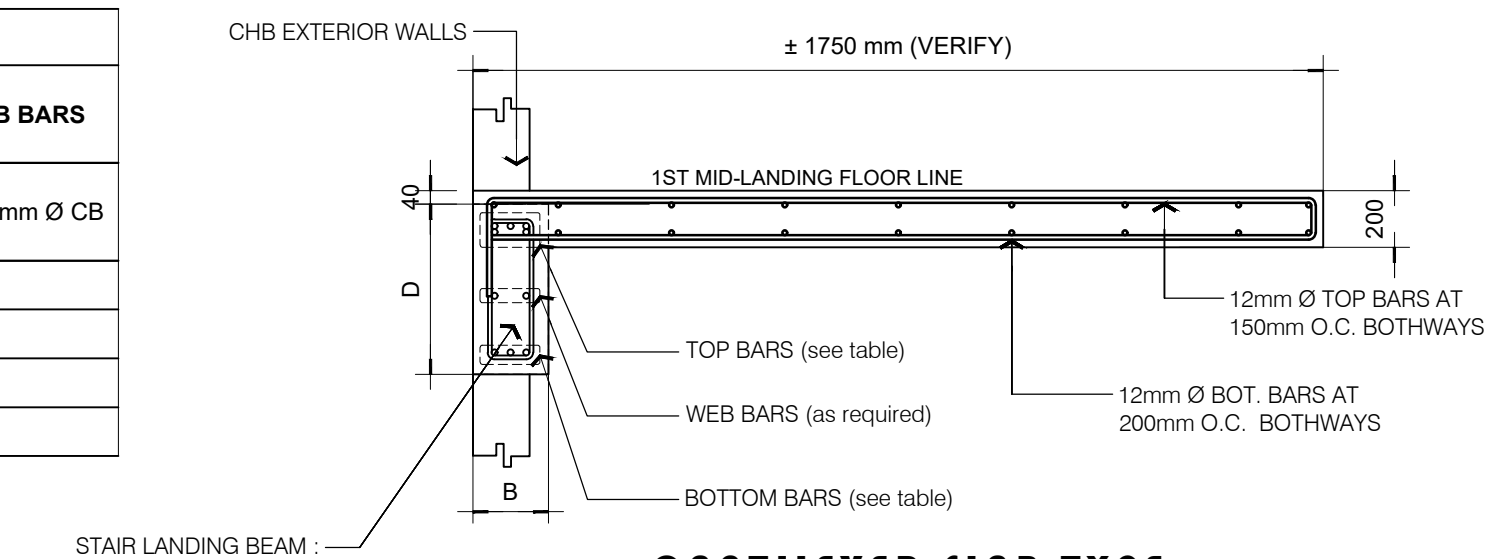
SCHEDULE OF STAIR BEAM					
BEAM "MARK"	DIMENSIONS		REINFORCEMENTS		WEB BARS
	B (mm)	D (mm)	AT SUPPORTS	AT MIDSPAN	
STAIR LANDING BEAM	250	450	TOP: 3 - 20mm ϕ CB + 2 - 20mm ϕ EB BOT.: 3 - 20mm ϕ CB	3 - 20mm ϕ CB	2 - 16mm ϕ CB
STIRRUPS: 10mm ϕ - 5 @ 50mm, 5 @ 75mm, 10 @ 100mm, REST @ 150mm O.C.					
f_c (concrete) : 3500 psi (24.0 MPa)					
f_y (main rebars) : GRADE 40 (275 MPa)					
f_y (stirrups) : GRADE 33 (227 MPa)					



05 TYP. CHB WALLS CONNECTION DETAILS (APPLIED TO ALL FLOOR LEVEL)
S-02 NOT DRAWN TO SCALE



06 TYPICAL STAIR FOOTING & STEPS DETAIL
S-02 SCALE: 1/20



07 STAIR MID-LANDING SLAB DETAIL (AT READING AREA)
S-02 SCALE: 1/20

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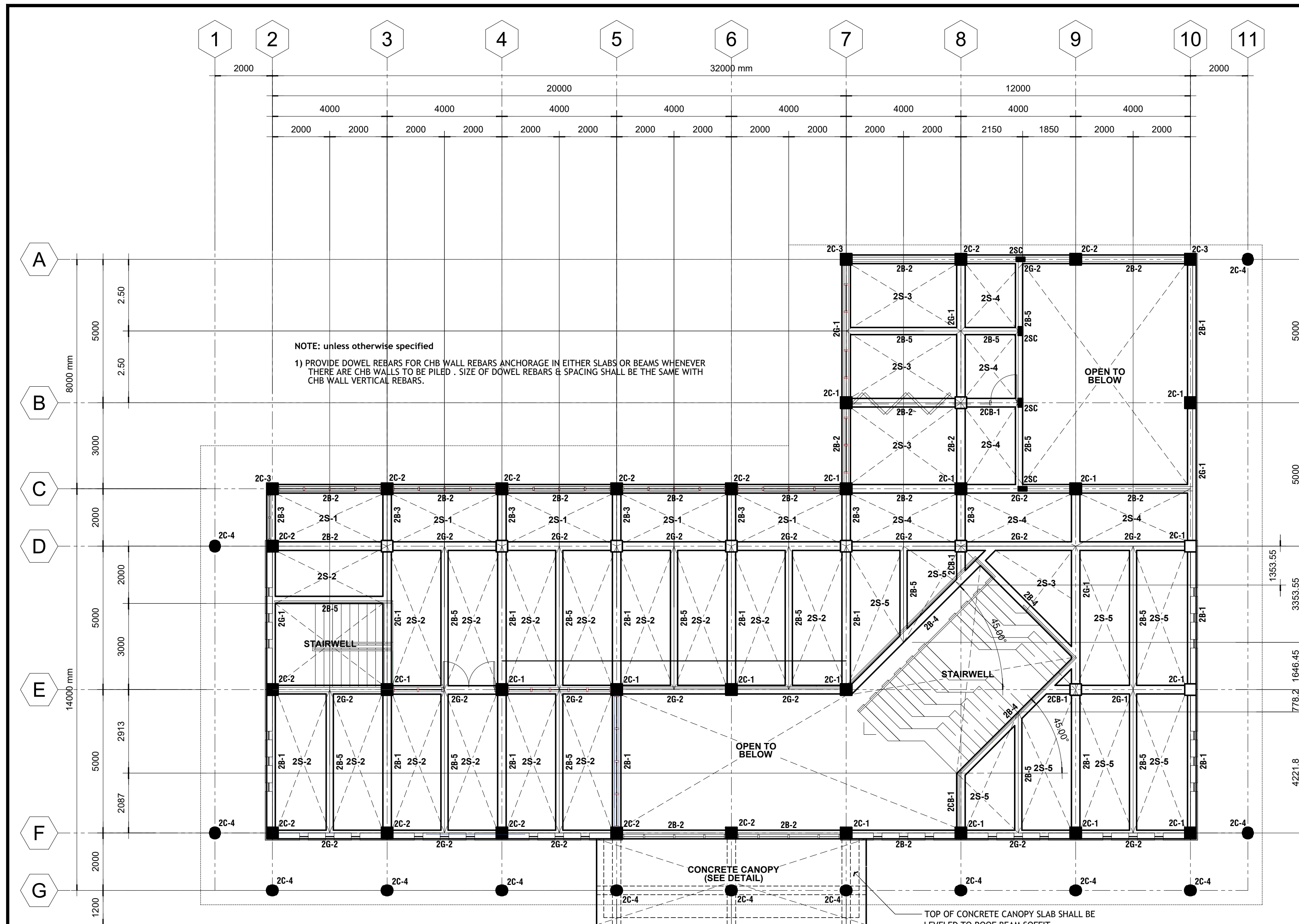
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P.T.R. No.: 7212178 DATE: 01-11-2017
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APPROVED BY
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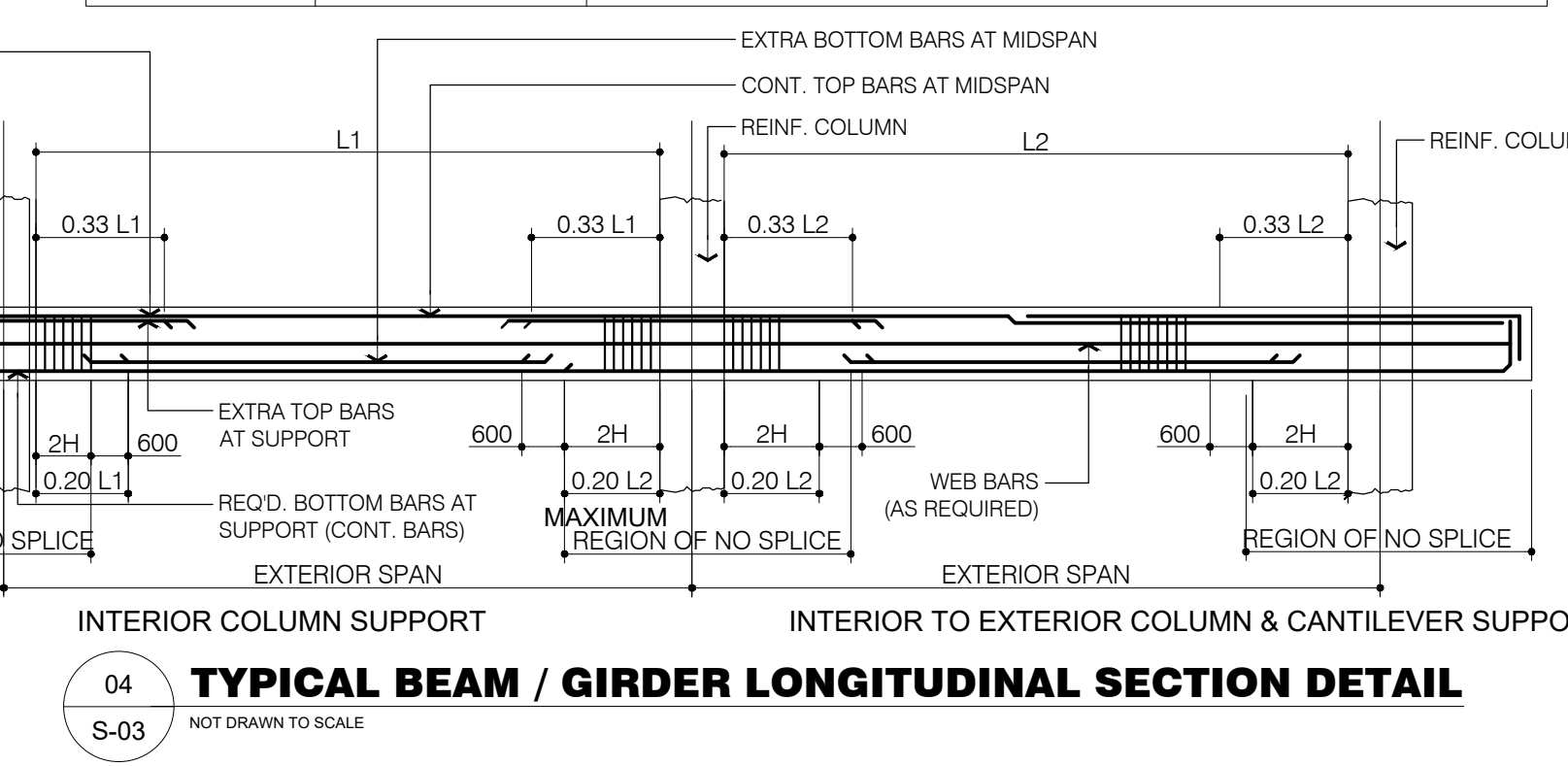
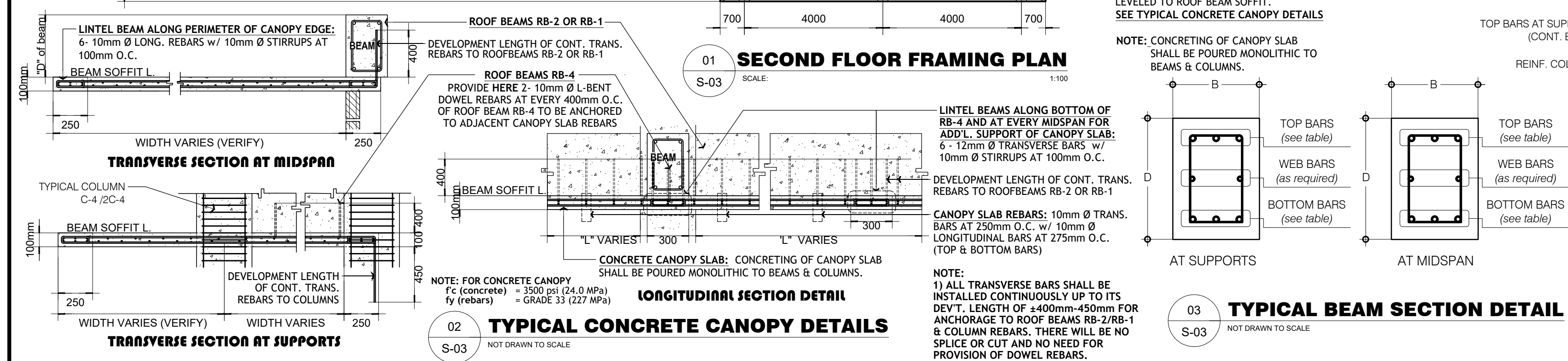
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CHECKED BY:
RESIDENT ENGINEER

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S-02
11 26



SCHEDULE OF SECOND FLOOR COLUMNS					
"MARK"	DIMENSIONS (b x d) & BAR ARRANGEMENT	REINFORCEMENTS	f _c (concrete)	f _y (steel bars)	
				main bars	stirrups
2C-1		VERTICAL REBARS: 16 - 20mm Ø MAIN LATERAL TIES: 10mm Ø 5 @ 50mm, 10 @ 100mm, 5 @ 120mm, REST @ 150mm SECONDARY TIES: 10mm Ø ALTERNATE	3500 PSI OR 24.0 MPA	GRADE 40 OR 275 MPA	GRADE 33 OR 227 MPA
2C-2		VERTICAL REBARS: 12 - 20mm Ø MAIN LATERAL TIES: 10mm Ø 5 @ 50mm, 10 @ 100mm, 5 @ 120mm, REST @ 150mm SECONDARY TIES: 10mm Ø ALTERNATE	3500 PSI OR 24.0 MPA	GRADE 40 OR 275 MPA	GRADE 33 OR 227 MPA
2C-3		VERTICAL REBARS: 8 - 20mm Ø MAIN LATERAL TIES: 10mm Ø 5 @ 50mm, 10 @ 100mm, 5 @ 120mm, REST @ 150mm SECONDARY TIES: 10mm Ø	3500 PSI OR 24.0 MPA	GRADE 40 OR 275 MPA	GRADE 33 OR 227 MPA
2C-4		VERTICAL REBARS: 16 - 20mm Ø MAIN LATERAL TIES: 10mm Ø PITCH AT 80mm O.C. SECONDARY TIES: --	3500 PSI OR 24.0 MPA	GRADE 40 OR 275 MPA	GRADE 33 OR 227 MPA
2SC		VERTICAL REBARS: 6 - 10mm Ø MAIN LATERAL TIES: 10mm Ø 5 @ 50mm, 10 @ 100mm, 5 @ 120mm, REST @ 150mm	3000 PSI OR 21.0 MPA	GRADE 33 OR 227 MPA	GRADE 33 OR 227 MPA

SCHEDULE OF SECOND FLOOR GIRDERS & BEAMS						
MARK	DIMENSIONS (mm) B, Base D, Depth	LOCATION	MAIN REINFORCEMENTS			
			AT SUPPORTS	AT MID-SPAN	WEB BARS	STIRRUPS
2G-1 / 2B-1	300	500	TOP: 6 - 20mm Ø CB + 4 - 20mm Ø EB BOTTOM: 4 - 20mm Ø CB	6 - 20mm Ø CB 4 - 20mm Ø CB + 6 - 20mm Ø EB	2 - 16mm Ø CB	A
2G-2 / 2B-2	300	500	TOP: 4 - 20mm Ø CB + 4 - 20mm Ø EB BOTTOM: 4 - 20mm Ø CB	4 - 20mm Ø CB 4 - 20mm Ø CB + 4 - 20mm Ø EB	2 - 16mm Ø CB	B
2B-3	300	500	TOP: 3 - 20mm Ø CB + 4 - 20mm Ø EB BOTTOM: 3 - 20mm Ø CB	3 - 20mm Ø CB 3 - 20mm Ø CB + 4 - 20mm Ø EB	2 - 16mm Ø CB	B
2B-4	250	450	TOP: 3 - 20mm Ø CB + 2 - 20mm Ø EB BOTTOM: 3 - 20mm Ø CB	3 - 20mm Ø CB 3 - 20mm Ø CB + 2 - 20mm Ø EB	2 - 16mm Ø CB	A
2B-5	250	400	TOP: 3 - 20mm Ø CB + 2 - 20mm Ø EB BOTTOM: 3 - 20mm Ø CB	3 - 20mm Ø CB 3 - 20mm Ø CB + 2 - 20mm Ø EB	2 - 16mm Ø CB	A
2CB-1	300	500	TOP: 7 - 20mm Ø CB BOTTOM: 4 - 20mm Ø CB	CANTILEVER BEAM (TAPERED TO 450mm)		2 - 16mm Ø CB A
f _c (concrete)			3500 psi (24.0 MPA)		STIRRUPS:	
f _y (≥ 16mm Ø)			GRADE 40 (275 MPA)		A --- 10mm Ø: 5 @ 50mm, 10 @ 100mm, REST @ 150mm O.C.	
f _y (≤ 12mm Ø)			GRADE 33 (227 MPA)		B --- 10mm Ø: 5 @ 75mm, 10 @ 100mm, REST @ 175mm O.C.	



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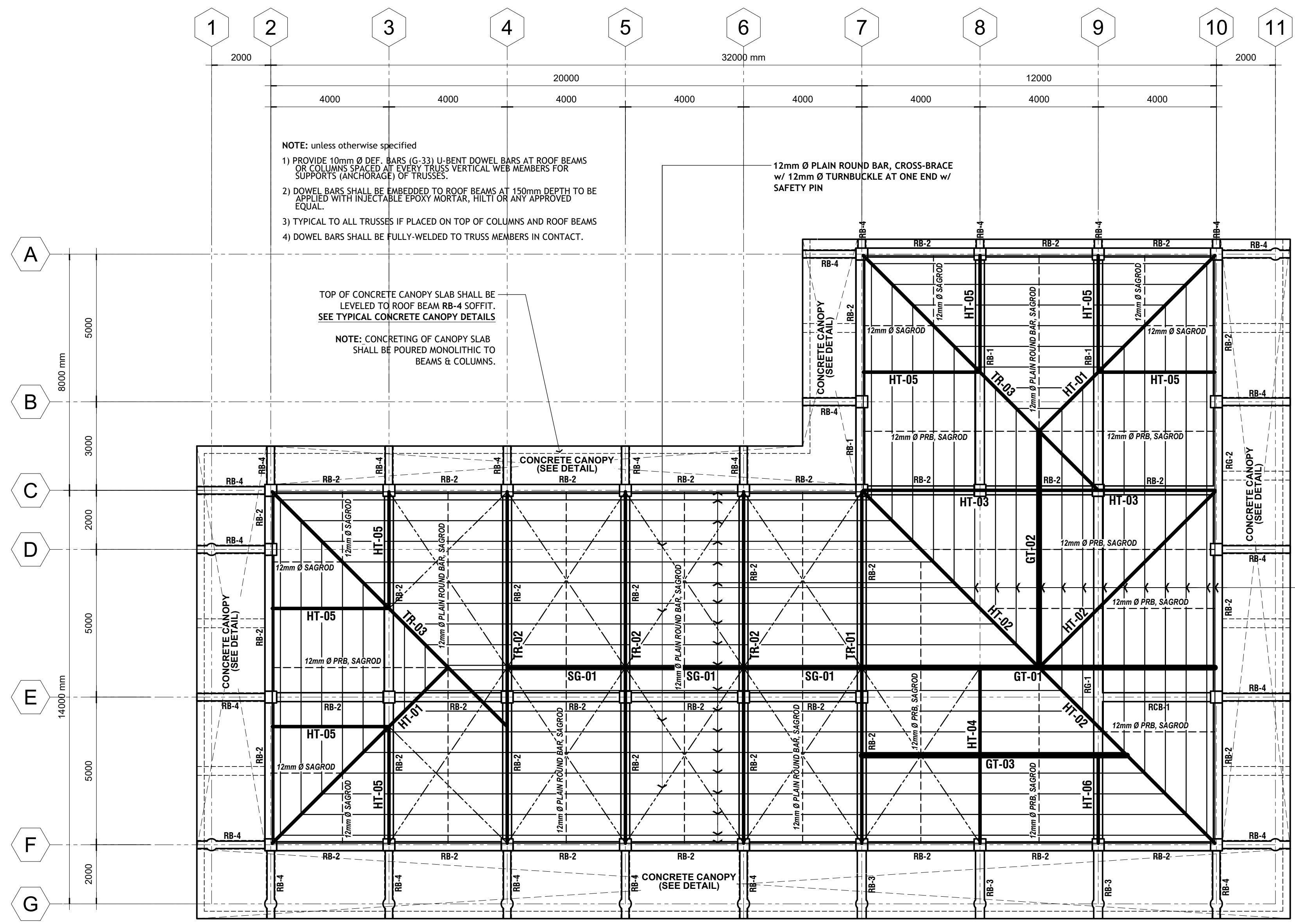
ASEP: 52853-111
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T I N No.: 102-900-986

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APPROVED BY
CHUCHI P. GARGANERA, PH. D.
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ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

PREPARED BY:
CHECKED BY:
RESIDENT ENGINEER

SHEET NO.
S-03
12 26



NOTE: unless otherwise specified

- 1) PROVIDE 10mm Ø DEF. BARS (G-33) U-BENT DOWEL BARS AT ROOF BEAMS OR COLUMNS SPACED AT EVERY TRUSS VERTICAL WEB MEMBERS FOR SUPPORTS (ANCHORAGE) OF TRUSSES.
- 2) DOWEL BARS SHALL BE EMBEDDED TO ROOF BEAMS AT 150mm DEPTH TO BE APPLIED WITH INJECTABLE EPOXY MORTAR, HILTI OR ANY APPROVED EQUAL.
- 3) TYPICAL TO ALL TRUSSES IF PLACED ON TOP OF COLUMNS AND ROOF BEAMS
- 4) DOWEL BARS SHALL BE FULLY-WELDED TO TRUSS MEMBERS IN CONTACT.

TOP OF CONCRETE CANOPY SLAB SHALL BE LEVELED TO ROOF BEAM RB-4 SOFFIT. SEE TYPICAL CONCRETE CANOPY DETAILS

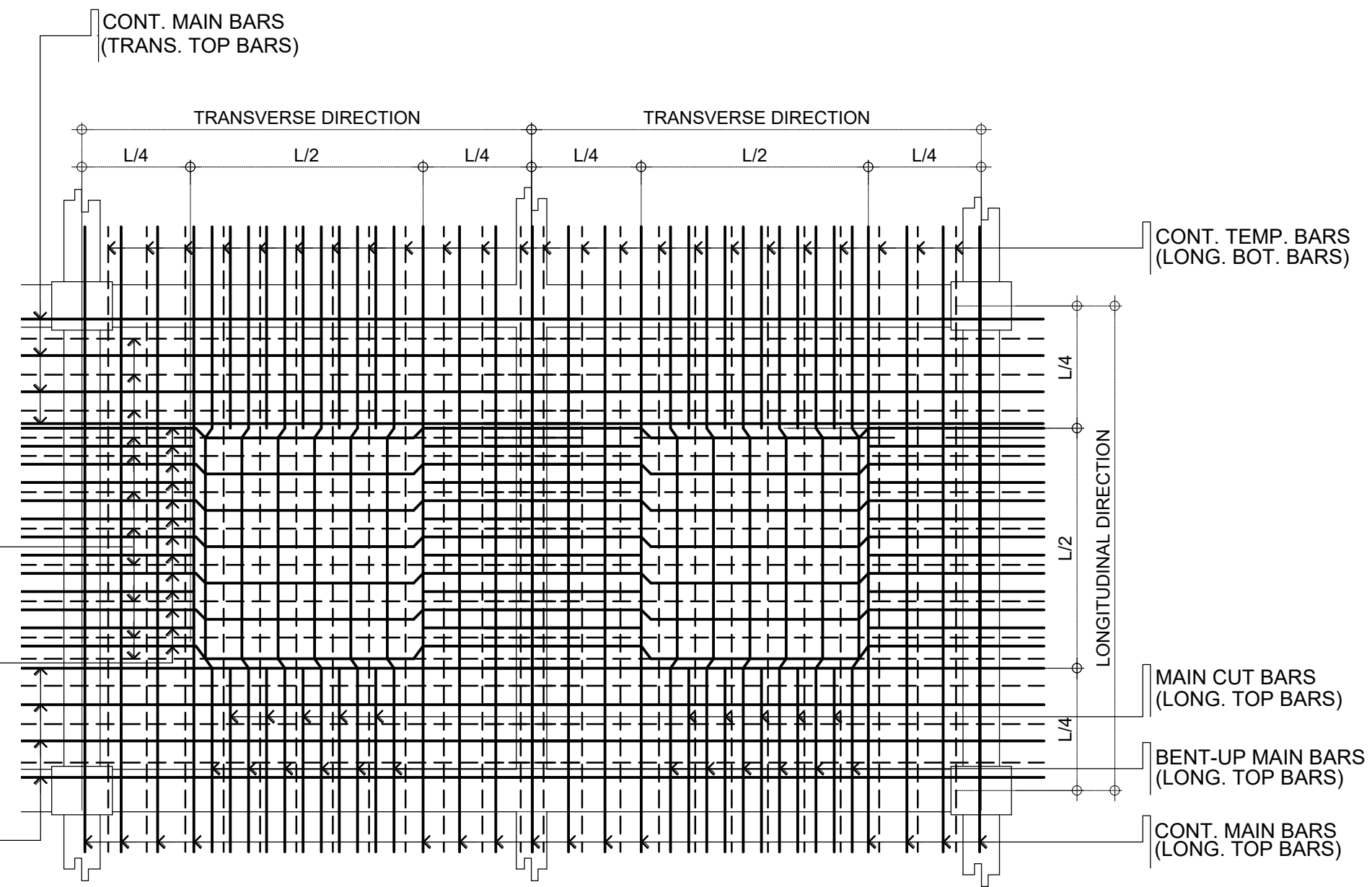
NOTE: CONCRETING OF CANOPY SLAB SHALL BE POURED MONOLITHIC TO BEAMS & COLUMNS.

12mm Ø PLAIN ROUND BAR, CROSS-BRACE w/ 12mm Ø TURNBUCKLE AT ONE END w/ SAFETY PIN

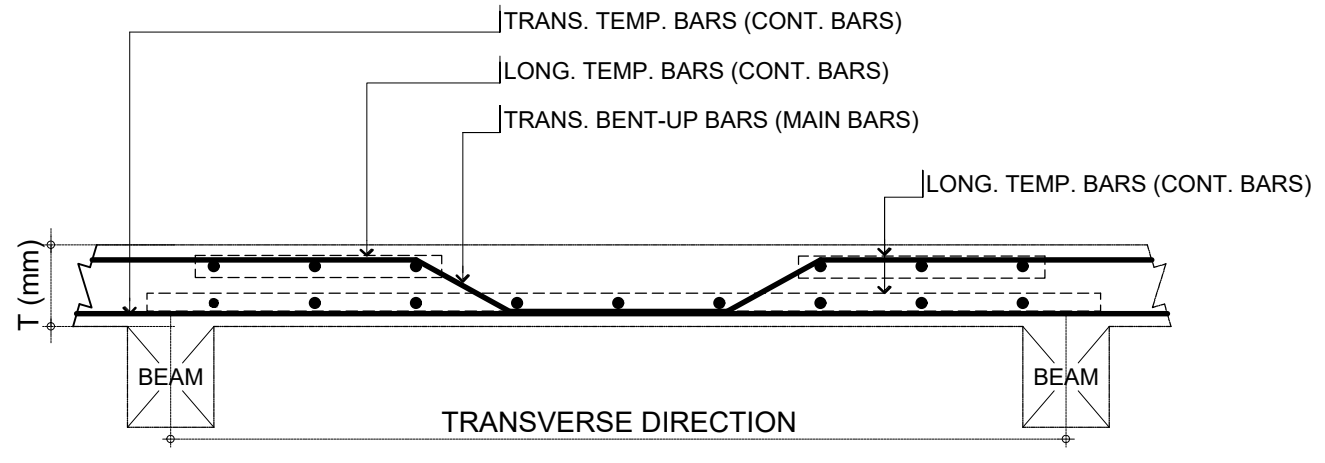
SCHEDULE OF SECOND FLOOR SUSPENDED SLABS					
MARK	T (mm)	LOCATION	REINFORCEMENTS		
			ALONG TRANSVERSE DIRECTION	ALONG LONGITUDINAL DIRECTION	
2S-1 TWO-WAY SLAB	120	MAIN TOP BARS	AT L/2	10mm Ø BENT-UP BARS AT 250mm O.C. w/ 10mm Ø CUT BARS IN BETWEEN	10mm Ø BENT-UP BARS AT 300mm O.C. w/ 10mm Ø CUT BARS IN BETWEEN
			AT L/4	10mm Ø CONT. BARS AT 250mm O.C.	10mm Ø CONT. BARS AT 300mm O.C.
		BOTTOM TEMP. BARS	10mm Ø CONT. BARS AT 250mm O.C.	10mm Ø CONT. BARS AT 250mm O.C.	
2S-2 ONE-WAY SLAB	120	MAIN TOP BARS	AT L/2	10mm Ø BENT-UP BARS AT 200mm O.C. w/ 10mm Ø CUT BARS IN BETWEEN	---
			AT L/4	10mm Ø CONT. BARS AT 200mm O.C.	---
		BOTTOM TEMP. BARS	10mm Ø CONT. BARS AT 200mm O.C.	10mm Ø CONT. BARS AT 300mm O.C.	
2S-3 TWO-WAY SLAB	110	MAIN TOP BARS	AT L/2	10mm Ø BENT-UP BARS AT 200mm O.C. w/ 10mm Ø CUT BARS IN BETWEEN	10mm Ø BENT-UP BARS AT 250mm O.C. w/ 10mm Ø CUT BARS IN BETWEEN
			AT L/4	10mm Ø CONT. BARS AT 200mm O.C.	10mm Ø CONT. BARS AT 250mm O.C.
		BOTTOM TEMP. BARS	10mm Ø CONT. BARS AT 200mm O.C.	10mm Ø CONT. BARS AT 250mm O.C.	
2S-4 TWO-WAY SLAB	110	MAIN TOP BARS	AT L/2	10mm Ø BENT-UP BARS AT 250mm O.C. w/ 10mm Ø CUT BARS IN BETWEEN	10mm Ø BENT-UP BARS AT 300mm O.C. w/ 10mm Ø CUT BARS IN BETWEEN
			AT L/4	10mm Ø CONT. BARS AT 250mm O.C.	10mm Ø CONT. BARS AT 300mm O.C.
		BOTTOM TEMP. BARS	10mm Ø CONT. BARS AT 250mm O.C.	10mm Ø CONT. BARS AT 300mm O.C.	
2S-5 ONE-WAY SLAB	110	MAIN TOP BARS	AT L/2	10mm Ø BENT-UP BARS AT 200mm O.C. w/ 10mm Ø CUT BARS IN BETWEEN	---
			AT L/4	10mm Ø CONT. BARS AT 200mm O.C.	---
		BOTTOM TEMP. BARS	10mm Ø CONT. BARS AT 200mm O.C.	10mm Ø CONT. BARS AT 300mm O.C.	

f_c (concrete) 3500 psi (24.0MPa)
f_y (rebars) GRADE 33 (227 MPa)

1.5mm THK. x 2" x 6" CEE-PURLINS SPACED AT 700mm O.C. w/ 4.5mm THK. x 2" x 2" ANGLE BAR, PURLIN CONNECTOR WELDED ON EVERY TRUSS



01 ROOF BEAM/ROOF FRAMING PLAN
SCALE: 1:100
S-04



02 TYPICAL ONE-WAY SLAB DETAIL
NOT DRAWN TO SCALE
S-04

SCHEDULE OF ROOF GIRDERS & BEAMS						
MARK	DIMENSIONS (mm) B. Base D, Depth	LOCATION	MAIN REINFORCEMENTS			
			AT SUPPORTS	AT MID-SPAN	WEB BARS	STIRRUPS
RG-1 / RB-1	300 500	TOP	6 - 20mm Ø CB + 4 - 20mm Ø EB	6 - 20mm Ø CB	2 - 16mm Ø CB	A
		BOTTOM	4 - 20mm Ø CB	4 - 20mm Ø CB + 6 - 20mm Ø EB	2 - 16mm Ø CB	A
RG-2 / RB-2	300 450	TOP	4 - 20mm Ø CB + 2 - 20mm Ø EB	4 - 20mm Ø CB	2 - 16mm Ø CB	A
		BOTTOM	4 - 20mm Ø CB	4 - 20mm Ø CB + 2 - 20mm Ø EB	2 - 16mm Ø CB	A
RB-3	300 450	TOP	4 - 20mm Ø CB + 4 - 20mm Ø EB	4 - 20mm Ø CB	2 - 16mm Ø CB	B
		BOTTOM	4 - 20mm Ø CB	4 - 20mm Ø CB + 4 - 20mm Ø EB	2 - 16mm Ø CB	B
RB-4	250 450	TOP	4 - 20mm Ø CB	4 - 20mm Ø CB	2 - 16mm Ø CB	B
		BOTTOM	3 - 20mm Ø CB	3 - 20mm Ø CB	2 - 16mm Ø CB	B
RCB-1	300 500	TOP	8 - 20mm Ø CB	CANTILEVER BEAM	2 - 16mm Ø CB	A
		BOTTOM	5 - 20mm Ø CB			A

f_c (concrete) 3500 psi (24.0 MPa)
f_y (≥ 16mm Ø) GRADE 40 (275 MPa)
f_y (≥ 12mm Ø) GRADE 33 (227 MPa)

STIRRUPS:
A --- 10mm Ø: 5 @ 50mm, 10 @ 100mm, REST @ 150mm O.C.
B --- 10mm Ø: 5 @ 75mm, 10 @ 100mm, REST @ 175mm O.C.

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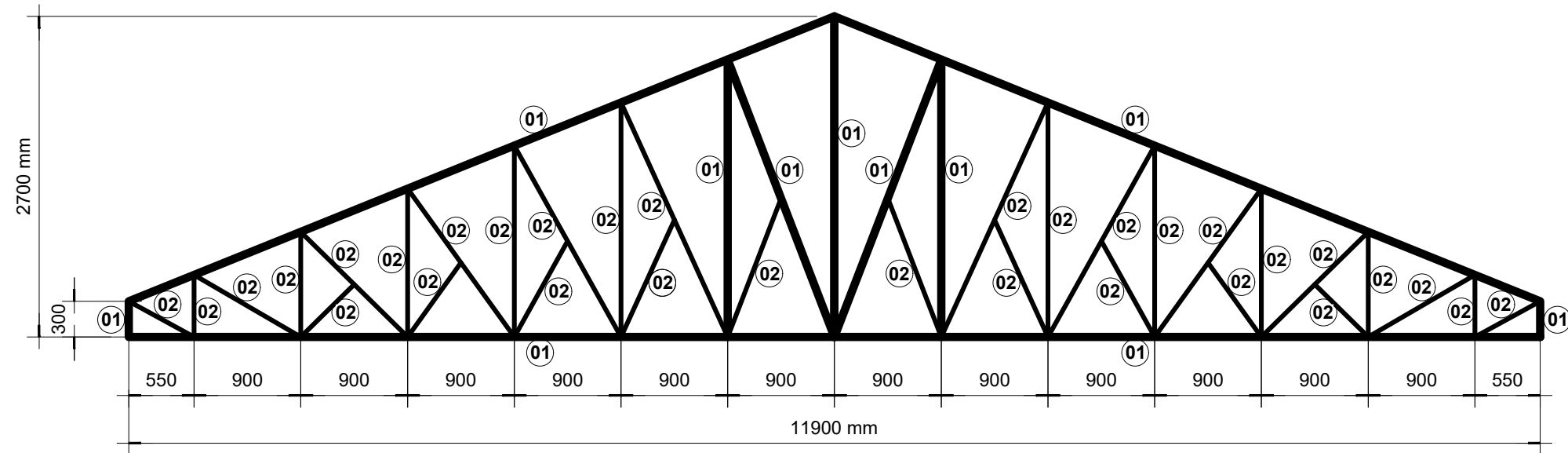
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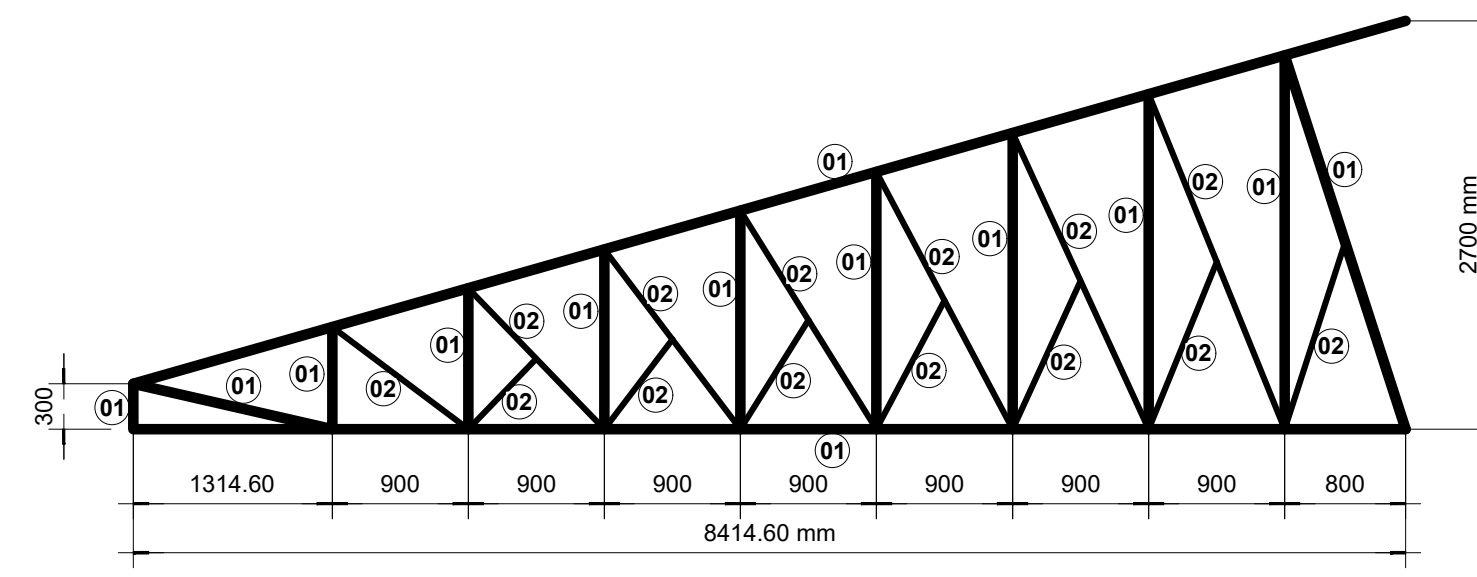
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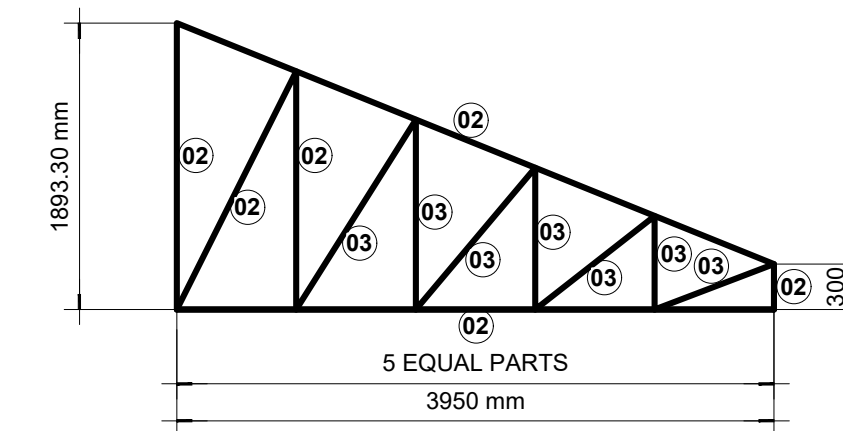
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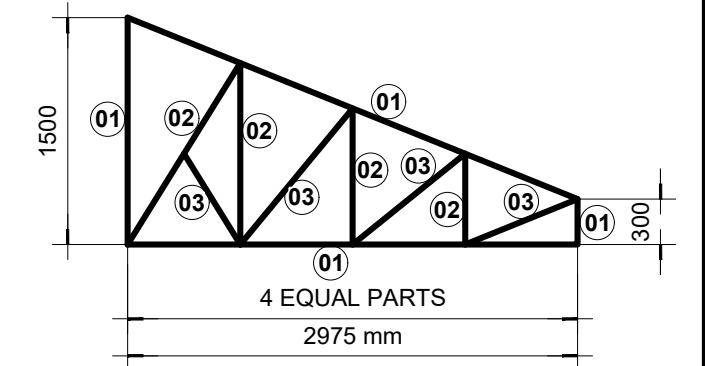
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SCALE: 1:50
S-05



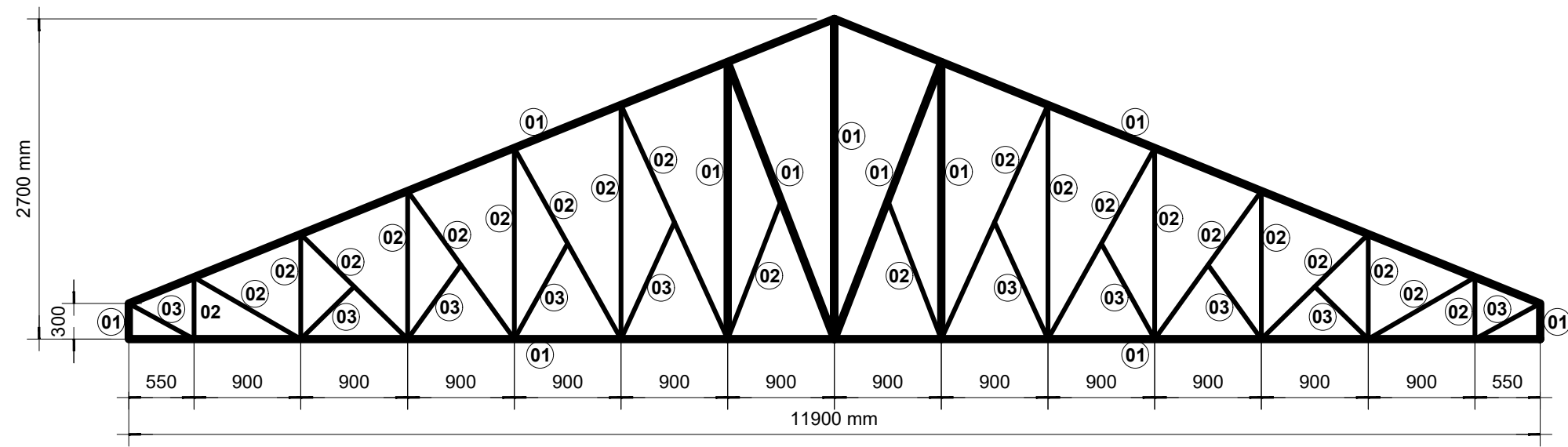
06 TRUSS HT-02 DETAIL
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S-05



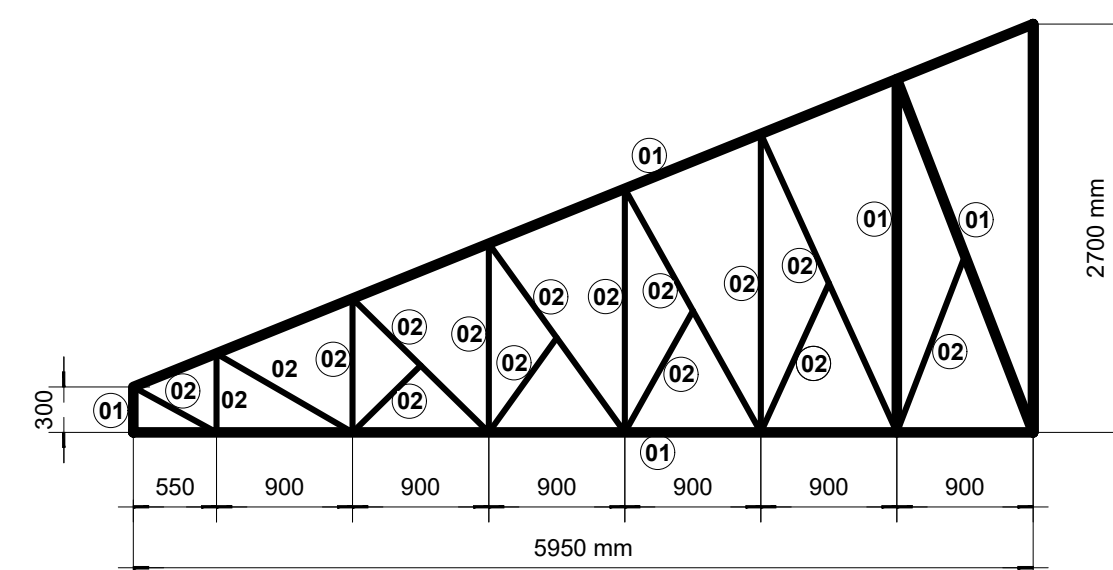
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S-05



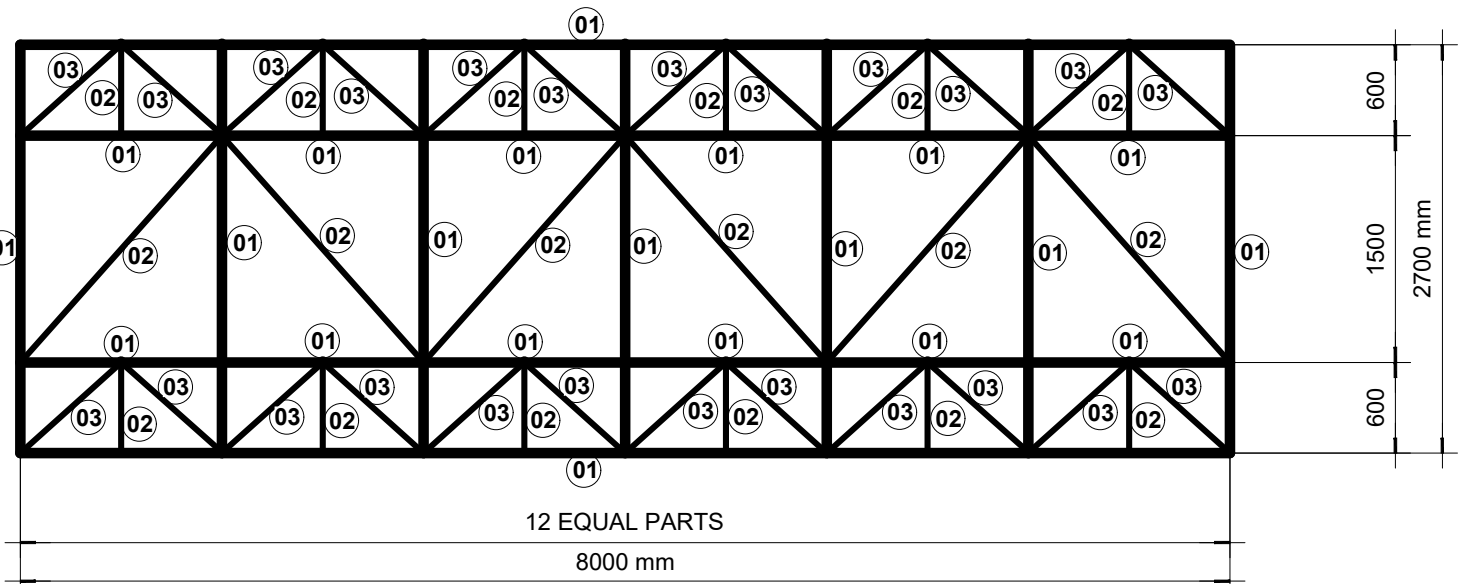
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S-05



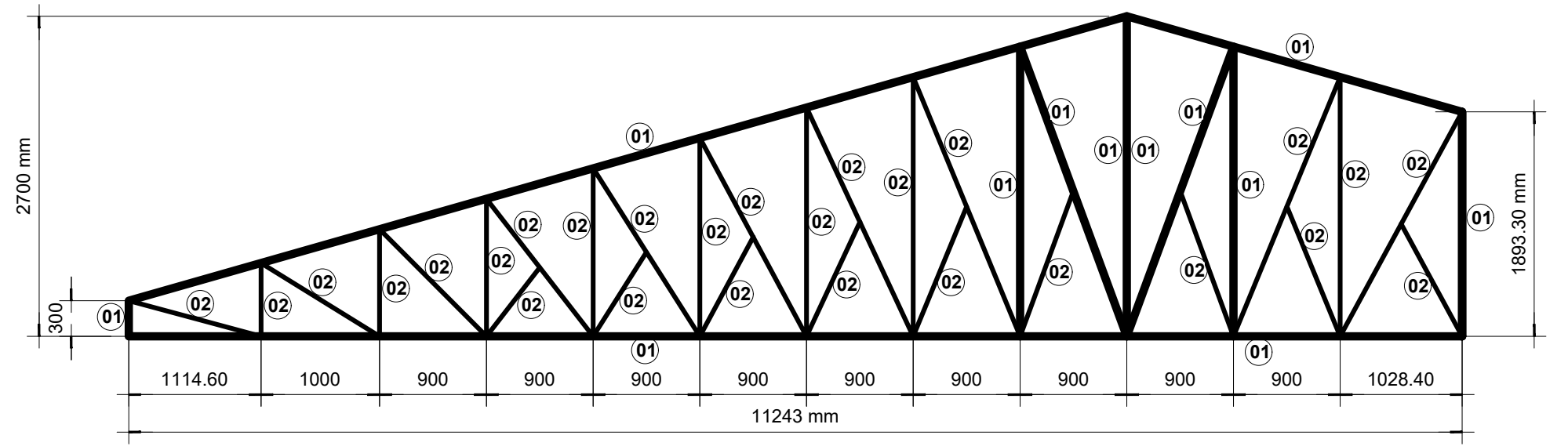
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S-05



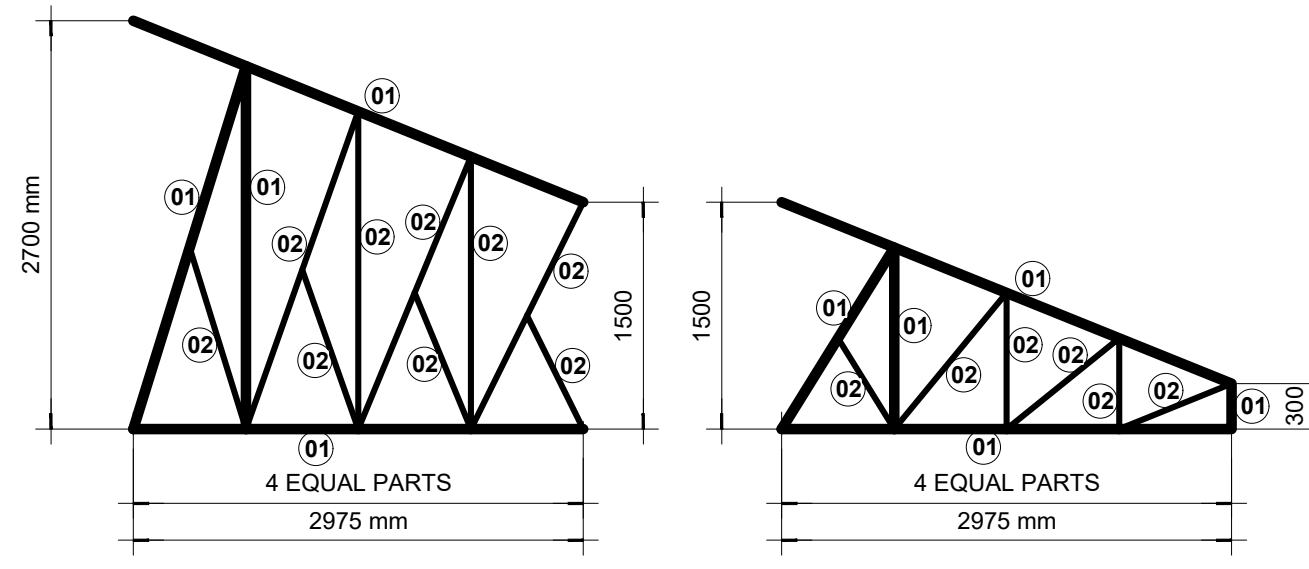
07 TRUSS HT-03 DETAIL
SCALE: 1:50
S-05



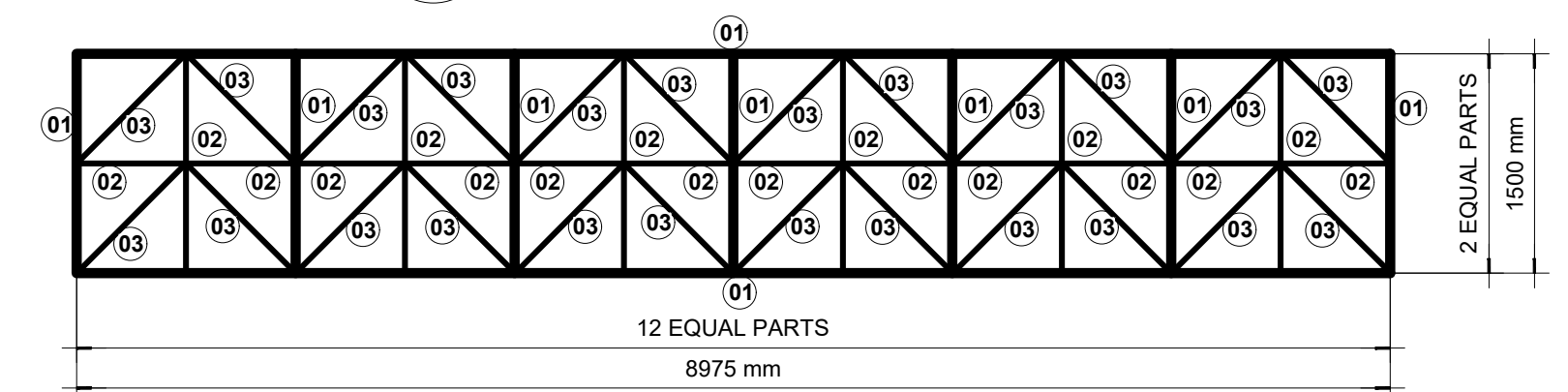
12 GIRDER TRUSS GT-02 DETAIL
SCALE: 1:50
S-05



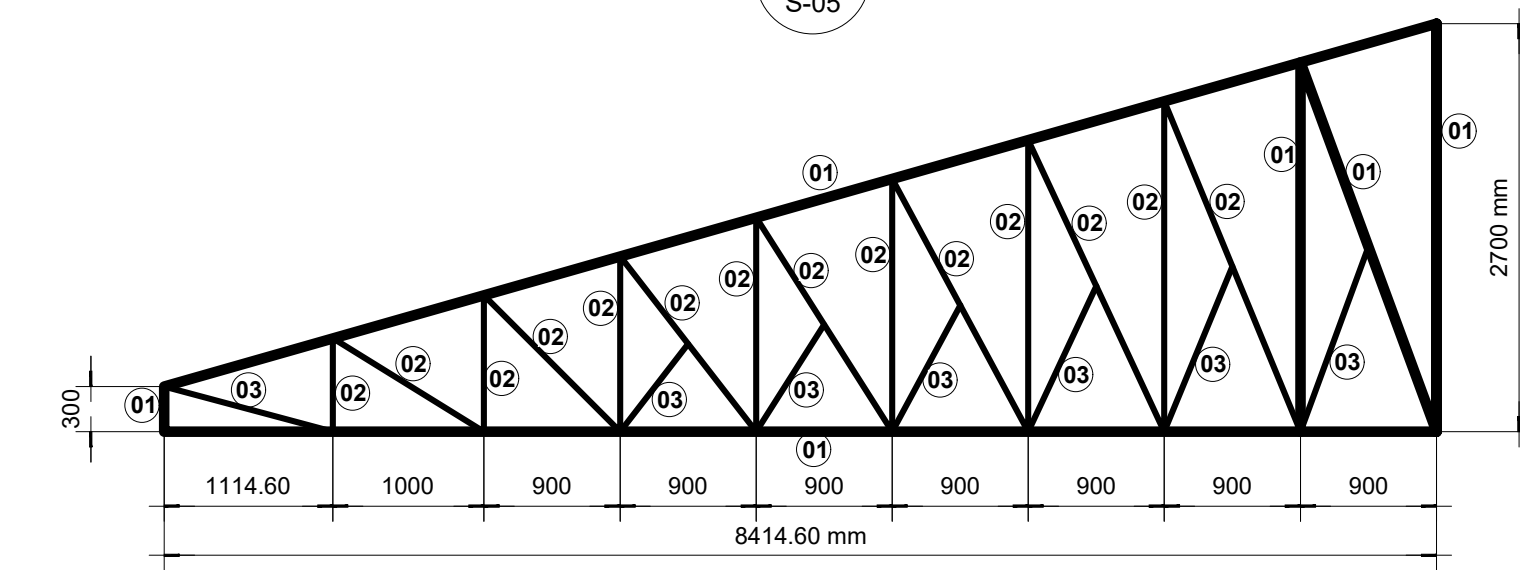
03 TRUSS TR-03 DETAIL
SCALE: 1:50
S-05



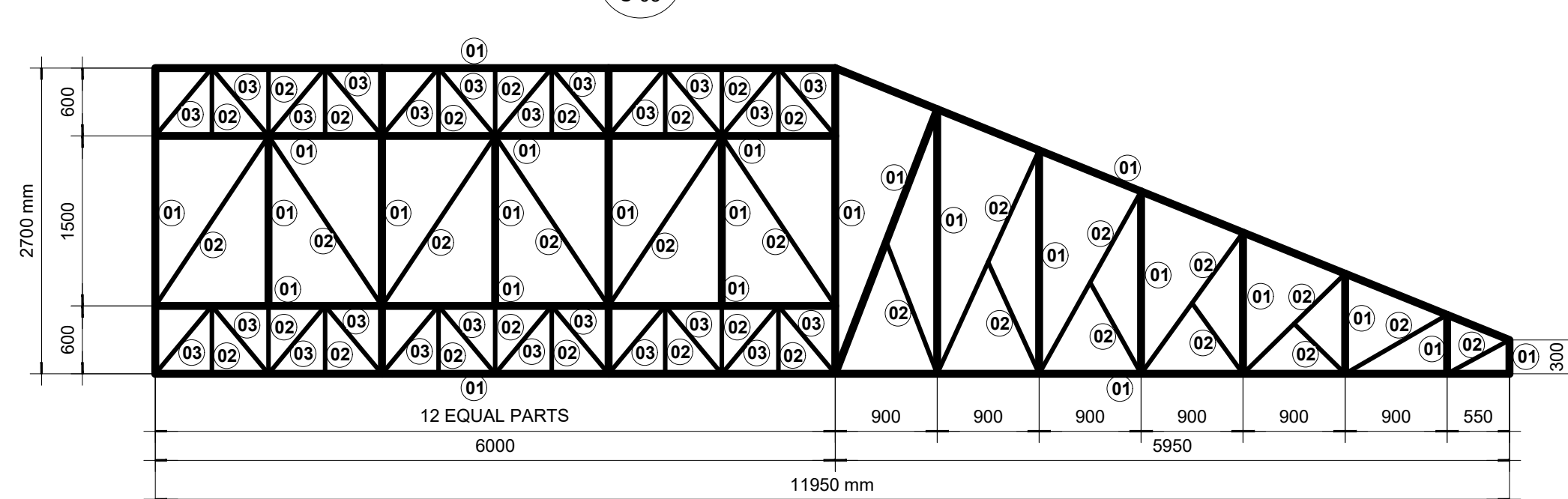
08 TRUSS HT-04 DETAIL
SCALE: 1:50
S-05



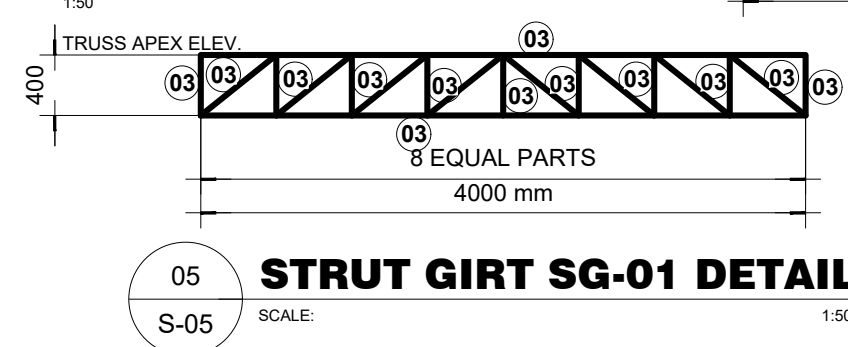
13 GIRDER TRUSS GT-03 DETAIL
SCALE: 1:50
S-05



04 TRUSS HT-01 DETAIL
SCALE: 1:50
S-05



09 GIRDER TRUSS GT-01 DETAIL
SCALE: 1:50
S-05



05 STRUT GIRT SG-01 DETAIL
SCALE: 1:50
S-05

- NOTE: unless otherwise specified
- 1) PROVIDE 10mm Ø DEF. BARS (G-33) U-BENT DOWEL BARS AT ROOF BEAMS OR COLUMNS SPACED AT EVERY TRUSS VERTICAL WEB MEMBERS FOR SUPPORTS (ANCHORAGE) OF TRUSSES.
 - 2) DOWEL BARS SHALL BE EMBEDDED TO ROOF BEAMS AT 150mm DEPTH TO BE APPLIED WITH INJECTABLE EPOXY MORTAR, HILTI OR ANY APPROVED EQUAL.
 - 3) TYPICAL TO ALL TRUSSES IF PLACED ON TOP OF COLUMNS AND ROOF BEAMS
 - 4) DOWEL BARS SHALL BE FULLY-WELDED TO TRUSS MEMBERS IN CONTACT.

A. STEEL STRUCTURES GENERAL NOTES

- 1) All steel members should conform with ASTM A 36 Steel Specifications.
- 2) Welds should be E 60 Electrodes and should conform to the Standard Code for Welding in Building Construction. All welds shall develop at least 100% of the structural steel member strength.
- 3) In actual fabrication of steel trusses, members meeting at a point shall have their gravity axis intersect as nearly as practicable at a common point to avoid eccentricity.
- 4) The Contractor shall verify all dimensions and conditions at the site before proceeding with the work.
- 5) The Contractor shall provide temporary erection bracing and shoring for all structural members as required for structural stability during all phases of construction.
- 6) The Contractor shall be responsible for the accurate location of all steel works including items used to attach materials to other parts of the work.
- 7) The Contractor shall see to it that any or all items of work which are to be built into the works of other trades are installed at the proper time.
- 8) The Contractor shall submit for approval samples, shop and erection drawings, showing in detail the proposed design, fabrication and erection. No work shall be started until these samples and drawings have been approved.
- 9) All joint connections of steel members shall be full-weld.

SCHEDULE OF TRUSS & ROOF FRAMING

LEGEND	SPECIFICATIONS
01	2 L - 6 mm THK. x 2" x 2" ANGLE BAR
02	1 L - 6 mm THK. x 2" x 2" ANGLE BAR
03	1 L - 6 mm THK. x 1 1/2" x 1 1/2" ANGLE BAR
CLEATS	4.5mm THK. x 2" x 2" ANGLE BAR
PURLINS	1.5mm THK. x 2" x 6" CEE-PURLINS AT 700mm O.C.
SAGROD	12mm Ø PLAIN ROUND BAR AT MIDSPAN
CROSS-BRACE	12mm Ø PLAIN ROUND BAR w/ 12mm Ø TURNBUCKLE AT ONE END

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27 P. ACHARON BOULEVARD, BRGY. DAD. SOUTH, GEN. SANTOS CITY ☎: 301-1917

MICHAEL T. ANG, fuap
ARCHITECT

PRC:	8270
VALIDITY	08 MAY 2018
IAPOA:	04440 141342 071615
O.R. DATE	141342 16JULY15
PTR	6600933
DATE ISS.	05 JAN 2016
PLACE ISS.	GSC
TIN	123-875-856

SECTION 33 of RA 9266 | Drawing & specifications & other contract documents duly signed, stamp or sealed, as instruments of service, are the intellectual property and documents of the architect, whether the object for which they are made is executed or not it shall be unlawful for any person to duplicate or to make copies of said documents for use in the repetition of & for other projects or buildings, whether executed party or in whole, without the written consent of architect or author of said documents.

JAMES P. PACIS, PICE, ASEP
CIVIL/STRUCTURAL ENGINEER
P.R.C. No.: 52853 ASEP: 52853-111
P.T.R. No.: 7212178 DATE: 01-11-2017
ISS. AT: G.S.C. T I N No.: 102-900-986

PROJECT TITLE / LOCATION
PROPOSED LEARNING RESOURCE (LIBRARY) AND MULTIMEDIA CENTER
PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

APPROVED BY
CHUCHI P. GARGANERA, PH. D.
DIRECTOR III
ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

PREPARED BY: _____
CHECKED BY: _____
RESIDENT ENGINEER

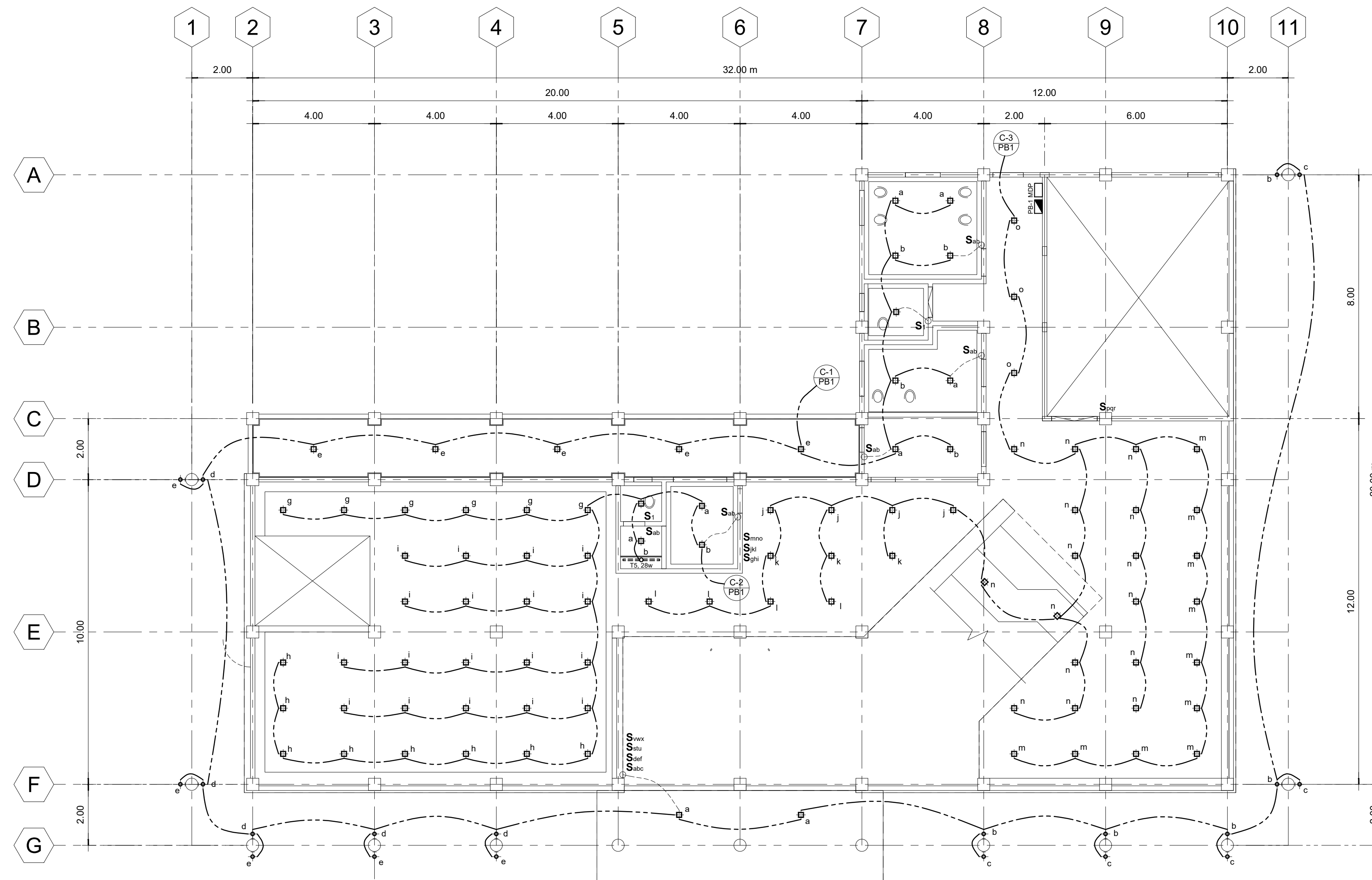
SHEET NO.
S-05
14 26

LEGEND :			
	— CIRCUIT HOMERUN		— T5 FLUORESCENT LIGHT
	— PANEL BOARD		— 2-GANG CONVENIENCE OUTLET
	— 1200 x 600mm LED PANEL; DAYLIGHT		— AIRCON. OUTLET
	WALL LAMP WITH 9w LED BULB; COOL WHITE		— FLOOR OUTLETS
	6" SQUARE PINLIGHT CASING WITH 9w LED BULB; DAYLIGHT		— EMERGENCY LIGHTS

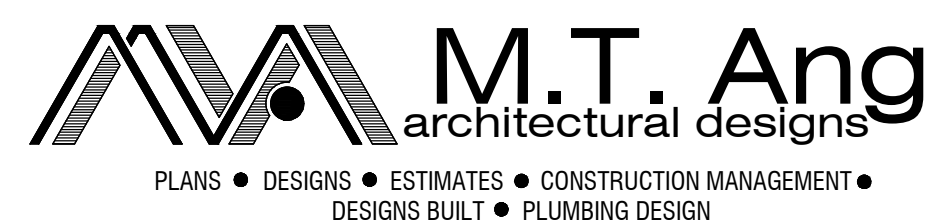
ELECTRICAL NOTES AND SPECIFICATIONS:

- ALL ELECTRICAL INSTALLATION SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE AND THE RULES AND REGULATIONS OF THE OFFICE OF THE BUILDING OFFICIAL INCHARGE IN ENFORCING THE CODE.
- NO WIRE SMALLER THAN 2.0mm²Ø SHALL BE USED.
- UNLESS OTHERWISE SPECIFIED, PULL BOXES SHALL BE PROVIDED WHENEVER REQUIRED AND NECESSARY ALTHOUGH SUCH BOXES ARE NOT INDICATED ON THE PLANS.
- ALL MATERIALS AND REQUIREMENTS TO BE USED SHALL BE NEW AND OF APPROVED TYPE AS TO LOCATION AND PURPOSES.
- ALL METAL FRAMES SHALL BE PROPERLY AND ADEQUATELY GROUNDED.
- SERVICE VOLTAGE SHALL BE 220volts, SINGLE PHASE, 60 Hz.
- THE ACTUAL LOCATION OF POWER SERVICE ENTRANCE SHALL BE VERIFIED AND ORIENTED FOR CONNECTION OF POWER SUPPLY.
- VERIFY ALL DIMENSIONAL LOCATION OF FIXTURES, OUTLETS, EQUIPMENTS ON OTHER DRAWINGS OF RELATED TRADES AND INVESTIGATE ALL POSSIBLE INTERFERENCE AND CONDITION AFFECTING THE ELECTRICAL WORK.
- PANEL BOARDS, CABINETS AND OTHER ENCLOSURES SHALL CONFORM TO NEMA STANDARDS.
- IT IS NOT INTENDED THAT THE DRAWING SHOW EACH AND EVERY CONDUIT, JUNCTION BOX, OUTLET, etc. HOWEVER, SUCH ITEMS SHOULD BE FURNISHED AND INSTALLED IF NECESSARY TO COMPLETE THE SYSTEM IN ACCORDANCE WITH THE BEST PRACTICE OF THE TRADE.
- MOUNTING HEIGHTS OF ELECTRICAL FIXTURES AND DEVICES SHALL BE AS FOLLOWS:

SWITCHES	— 1400mm ABOVE FINISH FLOOR LINE
CONVENIENCE OUTLETS	— 300mm ABOVE FINISH FLOOR LINE
	— 100mm ABOVE COUNTER / TABLE TOP
PANEL BOARDS	— 1800mm ABOVE FINISH FLOOR LINE TO THE TOP OF THE PANEL BOARD
- ALL ELECTRICAL WORKS SHALL BE DONE BY COMPETENT ELECTRICIANS UNDER THE DIRECT SUPERVISION OF A DULY LICENSED MASTER ELECTRICIANS OR PROFESSIONAL ELECTRICAL ENGINEER.



01 **GROUND FLOOR LIGHTING LAYOUT PLAN**
E-01 SCALE: 1:100



MICHAEL T. ANG, fuap
ARCHITECT

PRC: 8270
VALIDITY: 08 MAY 2018
IAPOA: 04440 141342 071615
O.R. | DATE: 141342 | 16JULY15
PTR: 7193602
DATE ISS: 10 JAN 2017
PLACE ISS: GSC
TIN: 123-875-856

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FERNANDO G. OCAT
PROF. ELECTRICAL ENGINEER
PRC Reg.No.: 2228 PTR No.: 7178915
TIN No.: 130-297-471 Date: 1/06/17 Iss.: GSC

PROJECT TITLE / LOCATION
LEARNING RESOURCE CENTER (LIBRARY) AND MULTI MEDIA CENTER
PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

APPROVED BY
CHUCHI P. GARGANERA, PH. D.
OWNER
ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

PREPARED BY:
RANILE ESPINA CORDOVA, uap
JUNIOR ARCHITECT
CHECKED BY:
RESIDENT ENGINEER

SHEET NO.
E-01
15 26

SCHEDULE OF LOADS & COMPUTATIONS (PB-1)

CIRCUIT NO.	DESCRIPTION	NO. OF OUTLETS			RATING W/WA/HP/TR	AMPERES		SWITCHES						SIZE OF WIRES & CONDUITS	LENGTH OF WIRE (M)	Resistance (Ohm/m)	VOLTAGE DROP (V)	CIRCUIT PROTECTION			VOLTAGE
		L.O.	C.O.	OTHERS		S1	S2	S3	S4	S5	S6	AT	AF					POLE			
C1	LIGHTING	36			1800 W	8.18		1	3	2				2 - 3.5mm ² THHN WIRES / 1/2" RSC	81.36	0.00506	3.3683	15	20	2	230
C2	LIGHTING	37			1850 W	8.41		1	2	1				2 - 3.5mm ² THHN WIRES / 1/2" RSC	38.81	0.00506	1.6514	15	20	2	230
C3	LIGHTING	39			1950 W		8.86			2				2 - 3.5mm ² THHN WIRES / 1/2" RSC	33.22	0.00506	1.4899	15	20	2	230
C4	CONVENIENCE OUTLETS		10		2000 W	9.09								2 - 3.5mm ² THHN WIRES / 1/2" RSC	44.74	0.00506	2.0580	20	30	2	230
C5	CONVENIENCE OUTLETS		10		2000 W	9.09								2 - 3.5mm ² THHN WIRES / 1/2" RSC	21.46	0.00506	0.9872	20	30	2	230
C6	CONVENIENCE OUTLETS		10		750 W		3.41							2 - 3.5mm ² THHN WIRES / 1/2" RSC	43.14	0.00324	0.4765	20	30	2	230
C7	EMERGENCY LIGHTS		10		2000 W	9.09								2 - 2.0mm ² THHN WIRES / 1/2" RSC	24.97	0.009	2.0430	15	20	2	230
C8	ACU (SPLIT TYPE)			1	3 TR		22.00							2 - 5.5mm ² THHN WIRES / 3/4" RSC	30.09	0.00324	2.1448	30	40	2	230
C9	ACU (SPLIT TYPE)			1	3 TR		22.00							2 - 5.5mm ² THHN WIRES / 3/4" RSC	20.25	0.00324	1.4434	30	40	2	230
C10	ACU (SPLIT TYPE)			1	3 TR	22.00								2 - 5.5mm ² THHN WIRES / 3/4" RSC	8.89	0.00324	0.6337	30	40	2	230
C11	ACU (SPLIT TYPE)			1	2.5 HP		15.50							2 - 5.5mm ² THHN WIRES / 3/4" RSC	3.25	0.00324	0.1632	30	40	2	230
C12	ACU (SPLIT TYPE)			1	3 TR		22.00							2 - 5.5mm ² THHN WIRES / 3/4" RSC	21.57	0.00324	1.5375	30	40	2	230
C13	ACU (WINDOW TYPE)				1 HP	8.00								2 - 5.5mm ² THHN WIRES / 3/4" RSC	2.50	0.00324	0.0648	30	40	2	230
C14	SPARE				1000 W	4.55								2 - 5.5mm ² THHN WIRES / 3/4" RSC	2.50	0.00324	0.0368	30	40	2	230
TOTAL		112	40	5		56.36	59.55	56.27	2	5	5			3 - 22mm² THHN WIRE IN 1 1/2" RSC	1.50	0.000801	0.0547	75	90	3	230

LEGEND :

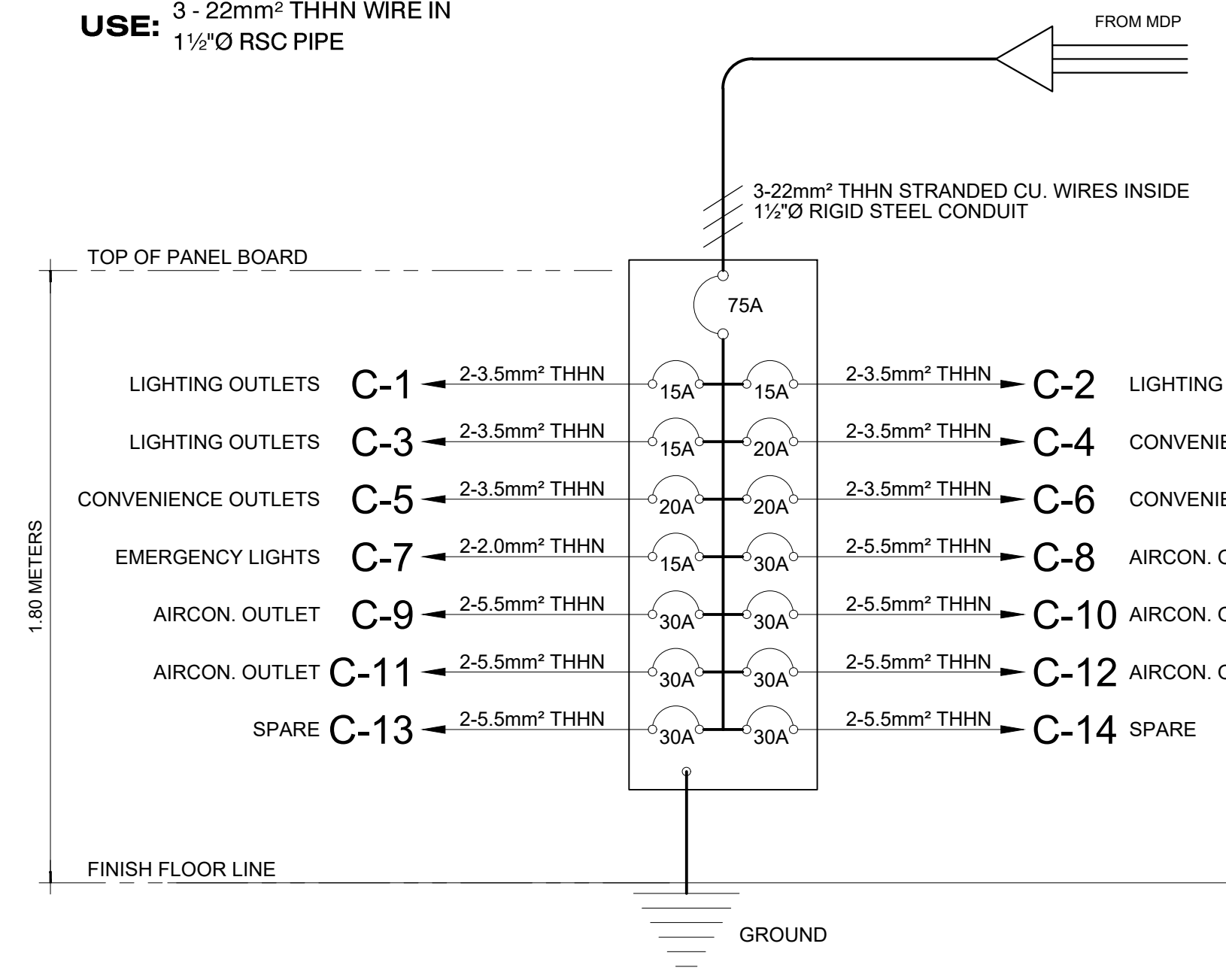
	— CIRCUIT HOMERUN		— T5 FLUORESCENT LIGHT
	— PANEL BOARD		— 2-GANG CONVENIENCE OUTLET
	— 1200 x 600mm LED PANEL; DAYLIGHT		— AIRCON. OUTLET
	WALL LAMP WITH 9w LED BULB; COOL WHITE		— FLOOR OUTLETS
	6" SQUARE PINLIGHT CASING WITH 9w LED BULB; DAYLIGHT		— EMERGENCY LIGHTS

SIZE OF FEEDER:

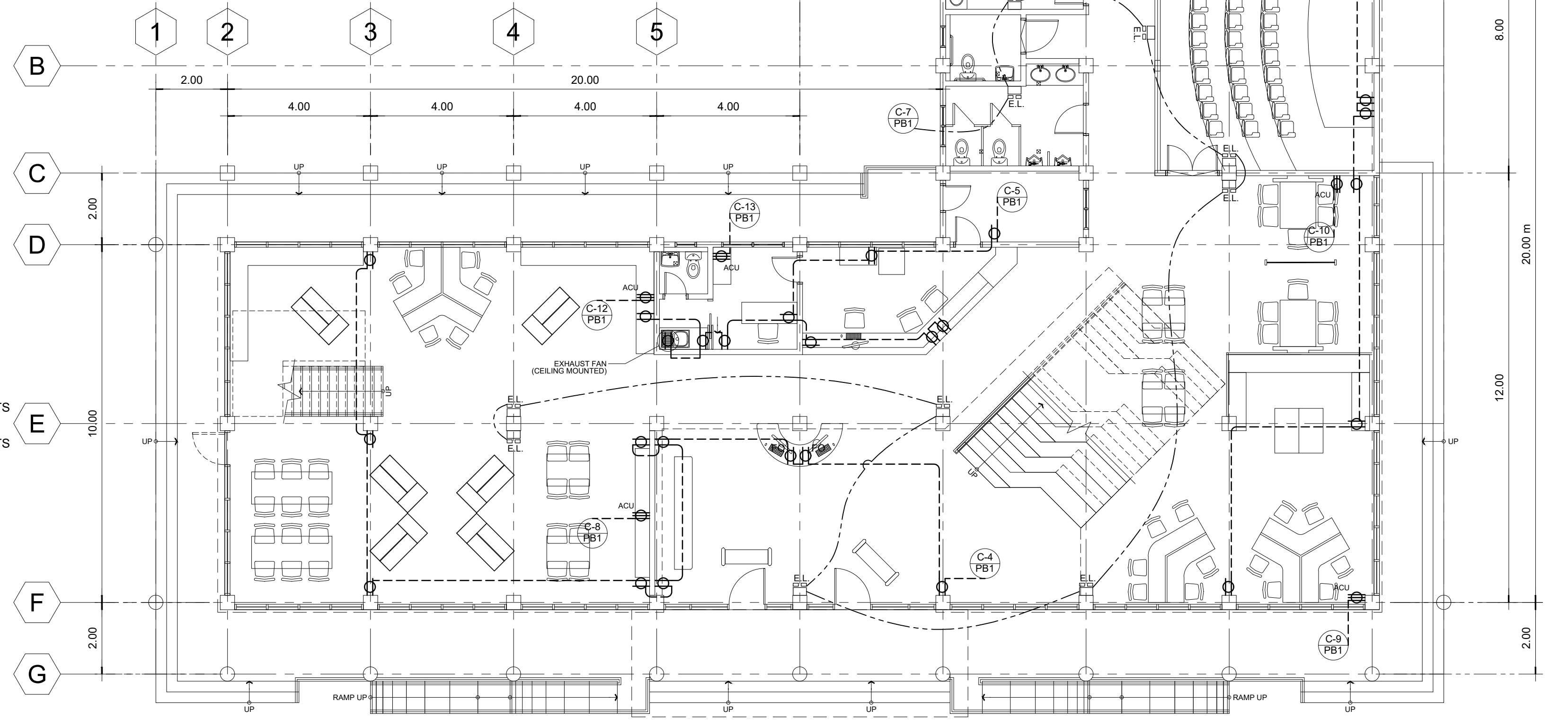
$\geq A [59.55 + (25\% \times 22.00 A)]$

≥ 65.0455 AMPERES

USE: 3 - 22mm² THHN WIRE IN 1 1/2" RSC PIPE



03 RISER DIAGRAM (PB-1)
E-04 NTS



01 GROUND FLOOR POWER LAYOUT PLAN
E-02 SCALE: 1:100

M.T. Ang
architectural designs
PLANS • DESIGNS • ESTIMATES • CONSTRUCTION MANAGEMENT •
DESIGNS BUILT • PLUMBING DESIGN
27 P. ACHARON BOULEVARD, BRGY. DAD. SOUTH, GEN. SANTOS CITY ☎ No: 301-1917

MICHAEL T. ANG, fuap
ARCHITECT

PRC: 8270
VALIDITY: 08 MAY 2018
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O.R. | DATE: 141342 | 16JULY15
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FERNANDO G. OCAT
PROF. ELECTRICAL ENGINEER
PRC Reg.No.: 2228 PTR No.: 7178915
TIN No.: 130-297-471 Date: 1/06/17 Iss.: GSC

PROJECT TITLE / LOCATION
LEARNING RESOURCE CENTER (LIBRARY) AND MULTI MEDIA CENTER
PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

APPROVED BY
CHUCHI P. GARGANERA, PH. D.
OWNER
ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

PREPARED BY:
RANILE ESPINA CORDOVA, uap
JUNIOR ARCHITECT
CHECKED BY:
RESIDENT ENGINEER

SHEET NO.
E-02
16 26

SCHEDULE OF LOADS & COMPUTATIONS (PB-2)

CIRCUIT NO.	DESCRIPTION	NO. OF OUTLETS			RATING W/WA/HP/TR	AMPERES			SWITCHES				SIZE OF WIRES & CONDUITS	LENGTH OF WIRE (M)	Resistance (Ohm/m)	VOLTAGE DROP (V)	CIRCUIT PROTECTION			VOLTAGE
		L.O.	C.O.	OTHERS		S1	S2	S3	3W	AT	AF	POLE								
C1	LIGHTING	27			2160 W	9.82					1		2 - 3.5mm ² THHN WIRES / 1/2" Ø RSC	47.79	0.00506	2.3742	15	20	2	230
C2	LIGHTING	34			1700 W		7.73				1	1	2 - 3.5mm ² THHN WIRES / 1/2" Ø RSC	19.33	0.00506	0.7558	15	20	2	230
C3	LIGHTING	40			2000 W			9.09			1	1	2 - 3.5mm ² THHN WIRES / 1/2" Ø RSC	96.14	0.00506	4.4224	15	20	2	230
C4	LIGHTING	31			1550 W	7.05					1	1	2 - 3.5mm ² THHN WIRES / 1/2" Ø RSC	50.03	0.00506	1.7836	15	20	2	230
C5	CONVENIENCE OUTLETS		12		2400 W		10.91						2 - 3.5mm ² THHN WIRES / 1/2" Ø RSC	36.04	0.00506	1.9894	20	30	2	230
C6	CONVENIENCE OUTLETS		11		2200 W			10.00					2 - 3.5mm ² THHN WIRES / 1/2" Ø RSC	33.25	0.00506	1.6825	20	30	2	230
C7	CONVENIENCE OUTLETS		13		2600 W	11.82							2 - 3.5mm ² THHN WIRES / 1/2" Ø RSC	62.10	0.00506	3.7136	20	30	2	230
C8	ACU (SPLIT TYPE)			1	3 TR		22.00						2 - 5.5mm ² THHN WIRES / 3/4" Ø RSC	31.54	0.00324	2.2482	30	40	2	230
C9	ACU (SPLIT TYPE)			1	3 TR		22.00						2 - 5.5mm ² THHN WIRES / 3/4" Ø RSC	22.18	0.00324	1.5810	30	40	2	230
C10	ACU (SPLIT TYPE)			1	3 TR	22.00							2 - 5.5mm ² THHN WIRES / 3/4" Ø RSC	9.55	0.00324	0.0000	30	40	2	230
C11	ACU (SPLIT TYPE)			1	3 TR		22.00						2 - 5.5mm ² THHN WIRES / 3/4" Ø RSC	13.09	0.00324	0.0000	30	40	2	230
C12	ACU (SPLIT TYPE)			1	3 TR		22.00						2 - 5.5mm ² THHN WIRES / 3/4" Ø RSC	2.85	0.00324	0.0000	30	40	2	230
C13	EMERGENCY LIGHTS		7		525 W	2.39							2 - 2.0mm ² THHN WIRES / 1/2" Ø RSC	45.38	0.009	0.9746	15	20	2	230
C14	SPARE				1000 W		4.55						2 - 5.5mm ² THHN WIRES / 3/4" Ø RSC	2.50	0.00324	0.0368	30	40	2	230
TOTAL		132	43	5		53.07	67.18	63.09	1	2	4		3 - 22mm² THHN WIRE IN 1 1/2" Ø RSC	6.00	0.000801	0.3493	75	90	3	230

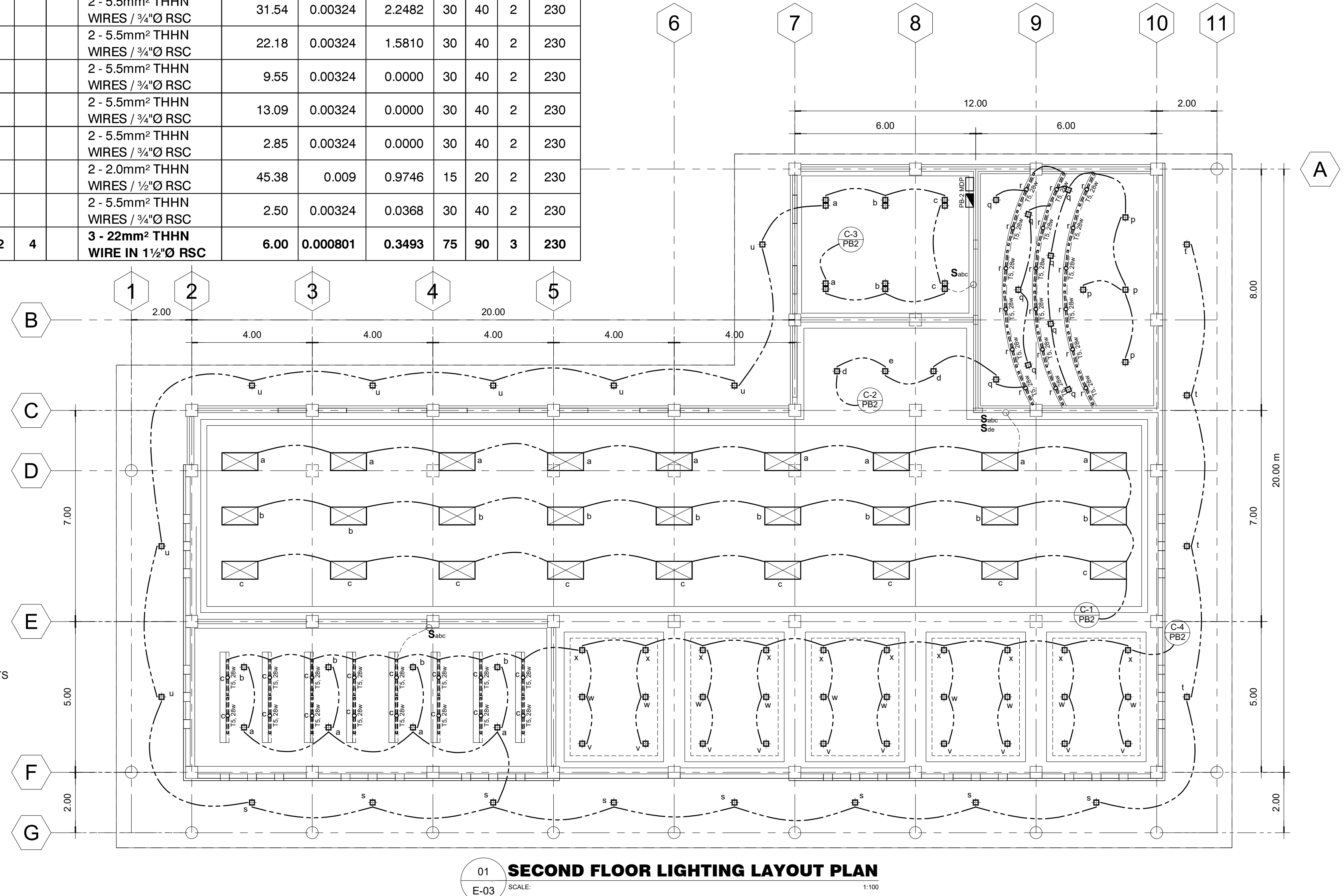
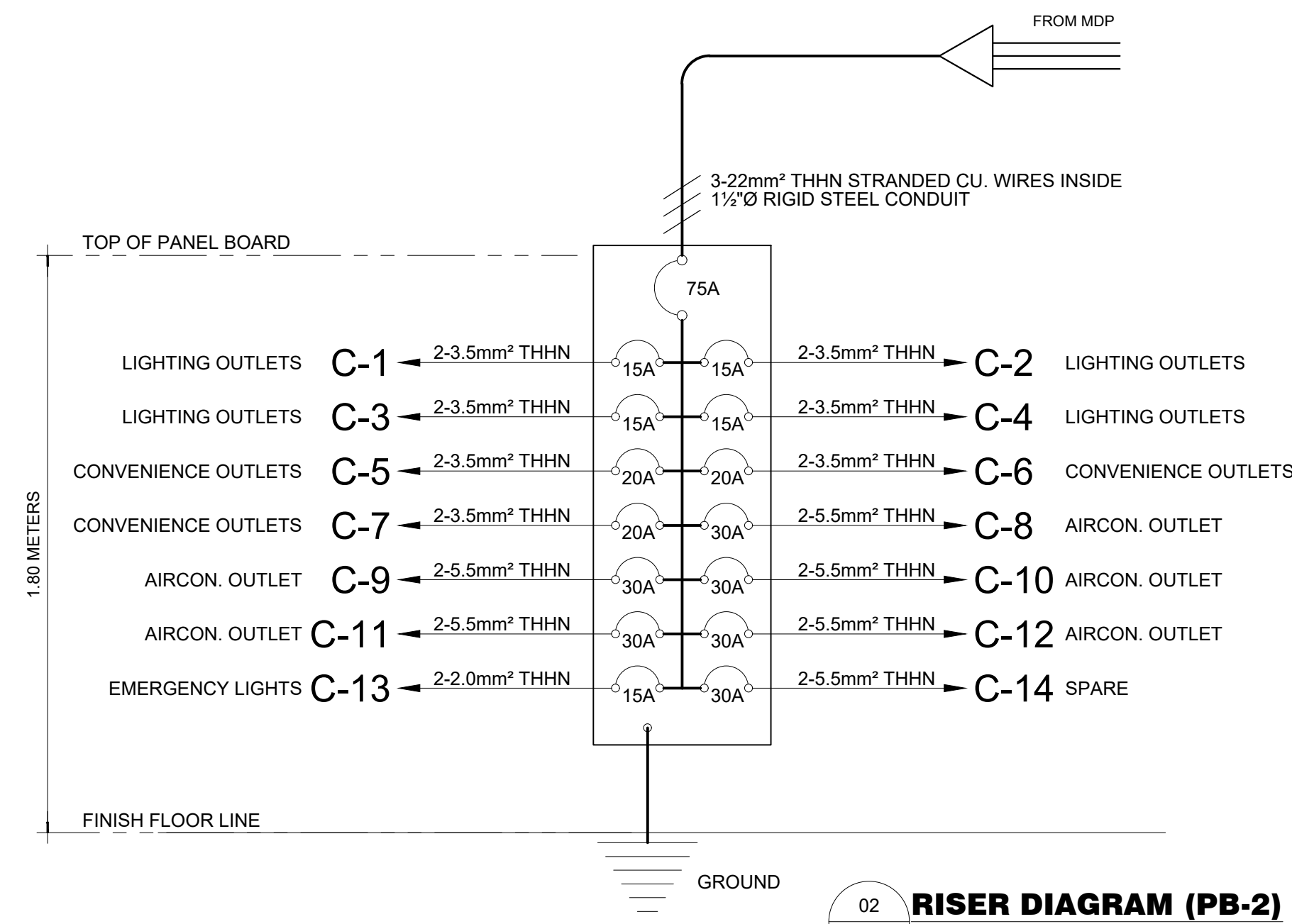
LEGEND :

	— CIRCUIT HOMERUN		— T5 FLUORESCENT LIGHT
	— PANEL BOARD		— 2-GANG CONVENIENCE OUTLET
	— 1200 x 600mm LED PANEL; DAYLIGHT		— AIRCON. OUTLET
	WALL LAMP WITH 9w LED BULB; COOL WHITE		— FLOOR OUTLETS
	6" SQUARE PINLIGHT CASING WITH 9w LED BULB; DAYLIGHT		— EMERGENCY LIGHTS

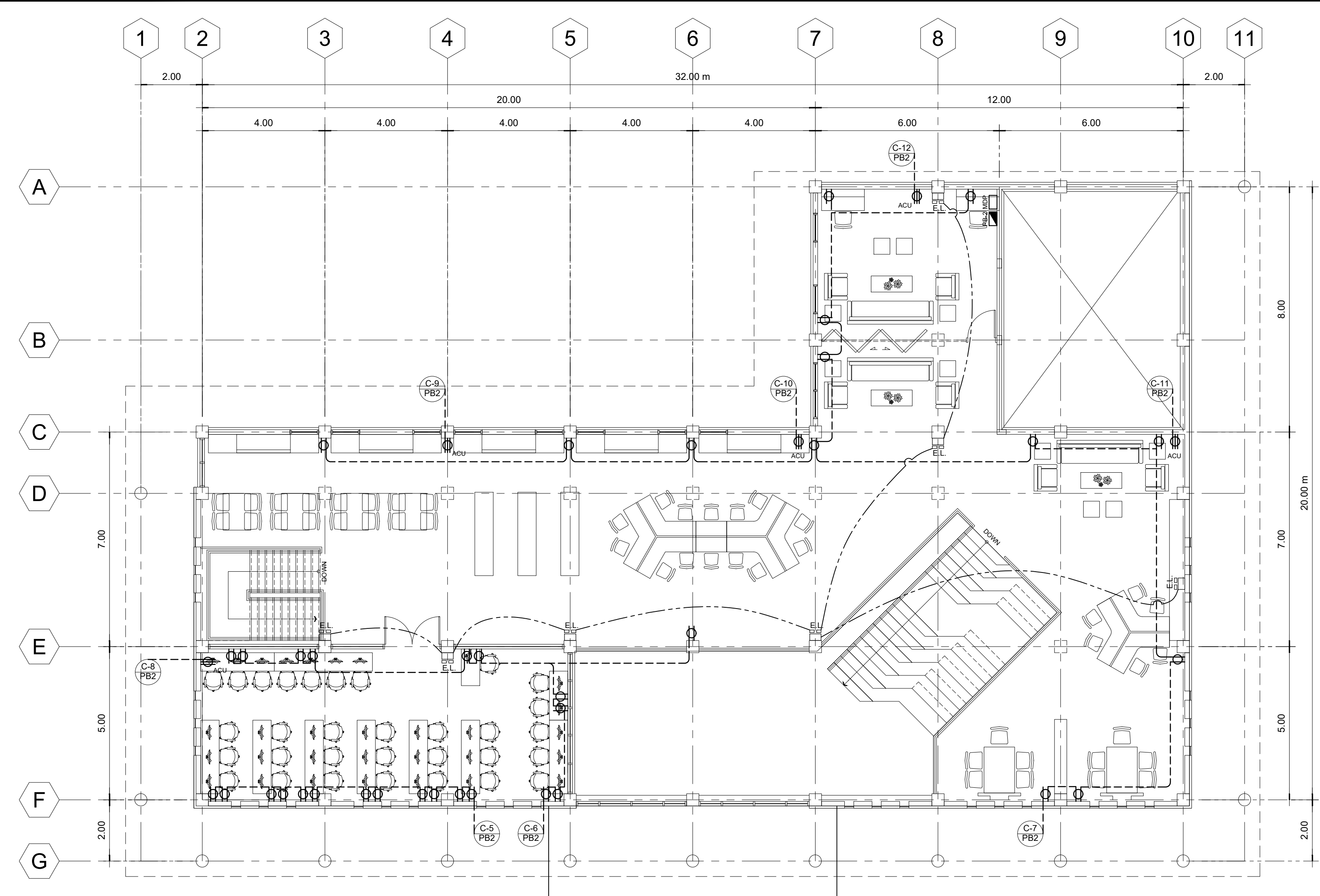
SIZE OF FEEDER:

$$\geq A [67.18 + (25\% \times 22.00 A)]$$

$$\geq 72.6818 \text{ AMPERES}$$
USE: 3 - 22mm² THHN WIRE IN 1 1/2" Ø RSC PIPE



<p>M.T. Ang architectural designs</p> <p>PLANS • DESIGNS • ESTIMATES • CONSTRUCTION MANAGEMENT • DESIGNS BUILT • PLUMBING DESIGN</p> <p>27 P. ACHARON BOULEVARD, BRGY. DAD. SOUTH, GEN. SANTOS CITY ☎ No: 301-1917</p>	PRC: 8270 VALIDITY: 08 MAY 2018 IAPOA: 04440 141342 071615 O.R. DATE: 141342 16JULY15 PTR: 7193602 DATE ISS: 10 JAN 2017 PLACE ISS: GSC TIN: 123-875-856	SECTION 33 of RA 9266 Drawing & specifications & other contract documents duly signed, stamped or sealed, as instruments of service, are the intellectual property and documents of the architect, whether the object for which they are made is executed or not it shall be unlawful for any person to duplicate or to make copies of said documents for use in the repetition of & for other projects or buildings, without the written consent of architect or author of said documents.	PROJECT TITLE / LOCATION LEARNING RESOURCE CENTER (LIBRARY) AND MULTI MEDIA CENTER PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City	APPROVED BY CHUCHI P. GARGANERA, PH. D. OWNER ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City	PREPARED BY: RANILE ESPINA CORDOVA, uap JUNIOR ARCHITECT CHECKED BY: --- RESIDENT ENGINEER	SHEET NO. E-03 17 26
	MICHAEL T. ANG, fuap ARCHITECT	FERNANDO G. OCAT PROF. ELECTRICAL ENGINEER PRC Reg.No.: 2228 PTR No.: 7178915 TIN No.: 130-297-471 Date: 1/06/17 Iss.: GSC				



01 **SECOND FLOOR POWER LAYOUT PLAN**
E-04 SCALE: 1:100

LEGEND :

	— CIRCUIT HOMERUN		— T5 FLUORESCENT LIGHT
	— PANEL BOARD		— 2-GANG CONVENIENCE OUTLET
	— 1200 x 600mm LED PANEL; DAYLIGHT		— AIRCON. OUTLET
	WALL LAMP WITH 9w LED BULB; COOL WHITE		— FLOOR OUTLETS
	6" SQUARE PINLIGHT CASING WITH 9w LED BULB; DAYLIGHT		— EMERGENCY LIGHTS

VOLTAGE DROP @ PANELS BOARD
 DIST. FROM TAPPING POLE TO PANELS: ± 30 meters
 MAIN = 137.73 Amps
 (FROM TABLE SYCWIN ELECTRIC WIRES AND CABLES)
 $Z (50 \text{ mm}^2) = 0.13900 / 300\text{m}$
 @ 30 m; $Z_t = 0.01390 \text{ Ohms}$

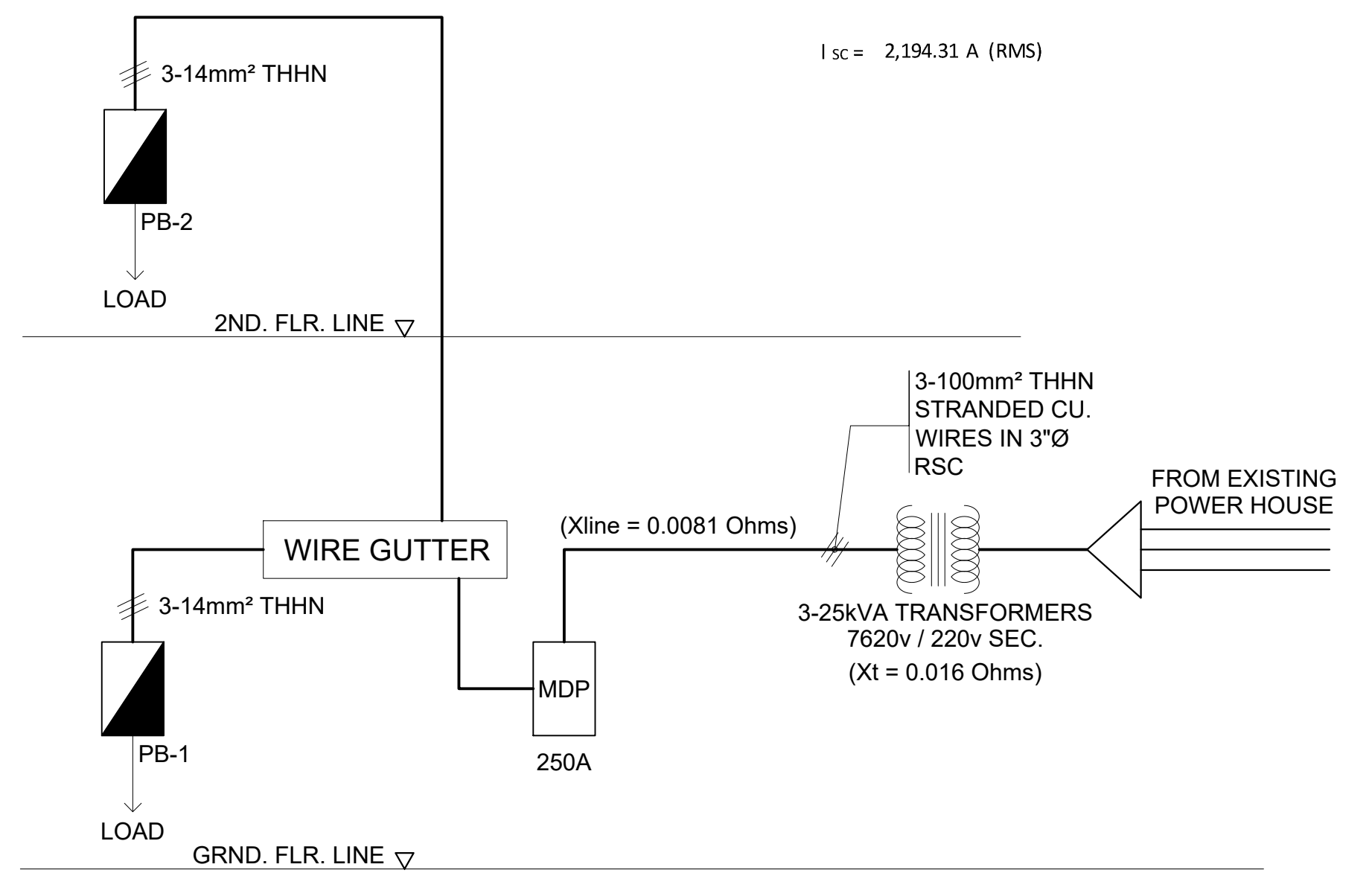
VOLTAGE DROP @ MDP
 $\text{VOLTAGE DROP} = IZ$
 $= 137.73 \times 0.01390$
 $= 1.91 \text{ V}$
 $\% \text{ VOLTAGE DROP} = 0.870 \%$

SHORT CIRCUIT CURRENT:
 Distance from Tapping Pole: ± 30 meters

Transformer Capacity:
 $\text{kVA} = \frac{I \times \text{Voltage}}{1000}$
 $= \frac{137.73 \times 220}{1000}$
 $= 30.3 \text{ kVA}$
USE: 3 - 25 kVA TRANSFORMER
 7620v / 220v SEC.

$I_{SC} = \frac{I_{SEC}}{Z}$

$I_{SC} = \text{SHORT CIRCUIT CURRENT (SYMMETRICAL)}$
 $Z = \text{TOTAL IMPEDANCE}$
 $= X_t + X_{LINE}$
 $I_{SEC} = \frac{\text{Kva} \times 1000}{1.732 \times 220 \text{ v}}$
FROM DIAGRAM :
 $I_{SC} = \frac{65.61 \text{ Amps}}{0.016 + 0.01390}$
 $I_{SC} = 2,194.31 \text{ A (RMS)}$



02 **SCHEMATIC DIAGRAM**
E-04 NTS

SCHEDULE OF LOADS & COMPUTATIONS FOR MDP

PANEL DESCRIPTION	AMPERES	CIRCUIT PROTECTION			VOLTAGE
		AT	AF	POLE	
PB-1	65.05	60	75	3	230
PB-2	72.68	60	75	3	230
TOTAL	137.73	150	175	3	230

SIZE OF MAIN SERVICE ENTRANCE:

$$I = (PB1 + PB2)$$

$$= (65.05 + 72.68)$$

$$= 137.73 \text{ A}$$

USE: - 3 - 50mm² THHN STRANDED WIRES IN 2"Ø RSC
 - 150 AMPERES, 3P, 250v, MAIN DISCONNECTION SWITCH

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 PLANS • DESIGNS • ESTIMATES • CONSTRUCTION MANAGEMENT •
 DESIGNS BUILT • PLUMBING DESIGN
 27 P. ACHARON BOULEVARD, BRGY. DAD. SOUTH, GEN. SANTOS CITY ☎ No: 301-1917

MICHAEL T. ANG, fuap
ARCHITECT

PRC:	8270
VALIDITY	08 MAY 2018
IAPOA:	04440 141342 071615
O.R. DATE	141342 16JULY15
PTR	7193602
DATE ISS.	10 JAN 2017
PLACE ISS.	GSC
TIN	123-875-856

SECTION 33 of RA 9266 | Drawing & specifications & other contract documents duly signed, stamp or sealed, as instruments of service, are the intellectual property and documents of the architect, whether the object for which they are made is executed or not it shall be unlawful for any person to duplicate or to make copies of said documents for use in the repetition of & for other projects or buildings, whether executed partly or in whole, without the written consent of architect or author of said documents.

FERNANDO G. OCAT
PROF. ELECTRICAL ENGINEER
 PRC Reg.No.: 2228 PTR No.: 7178915
 TIN No.: 130-297-471 Date: 1/06/17 Iss.: GSC

PROJECT TITLE / LOCATION
LEARNING RESOURCE CENTER (LIBRARY) AND MULTI MEDIA CENTER
 PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

APPROVED BY
CHUCHI P. GARGANERA, PH. D.
 OWNER
 ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

PREPARED BY:
RANILE ESPINA CORDOVA, uap
 JUNIOR ARCHITECT
CHECKED BY:
 RESIDENT ENGINEER

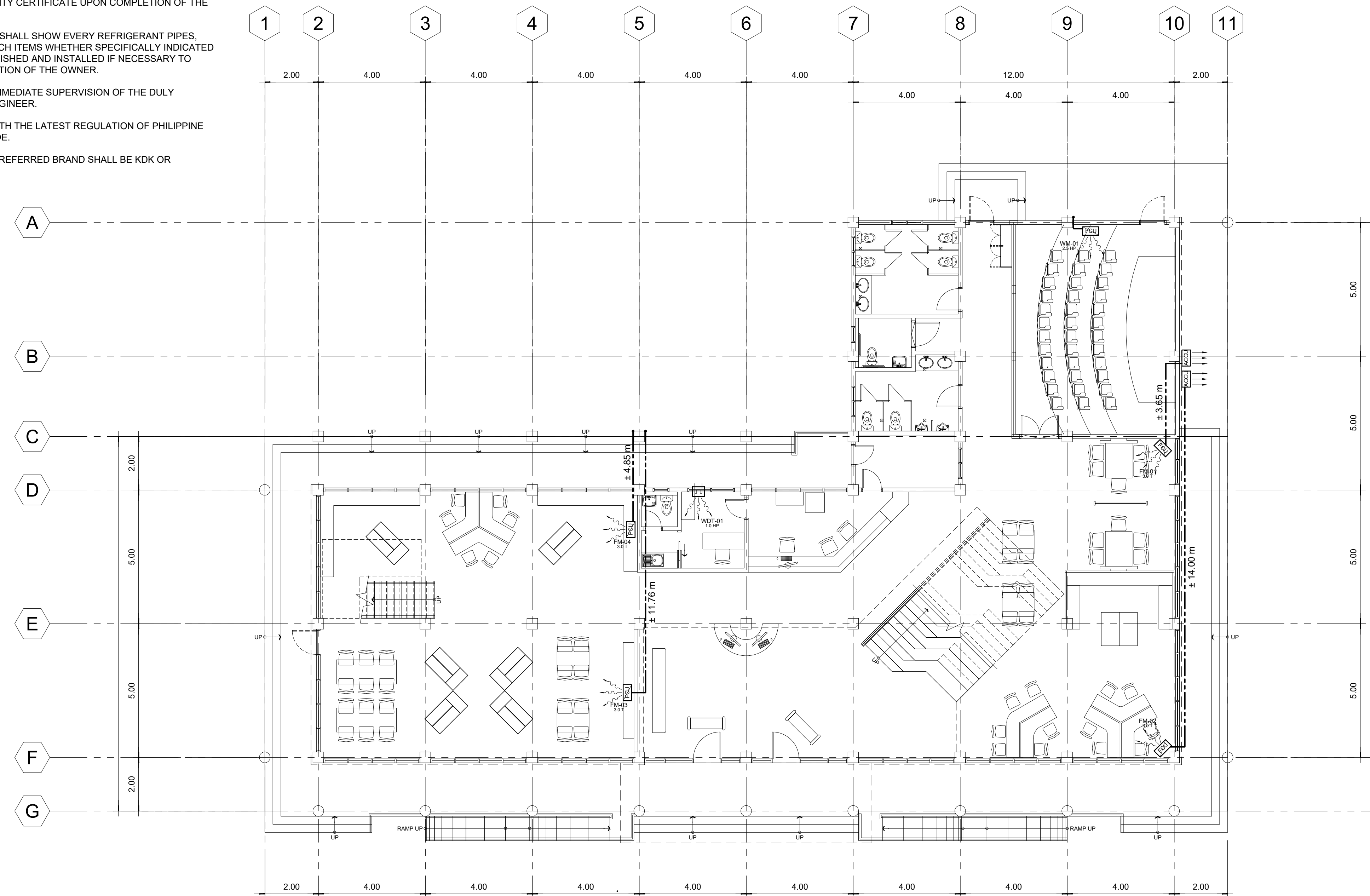
SHEET NO.

E-04
18 26

GENERAL NOTES:

1. VERIFY ALL DIMENSION LOCATION OF THE EQUIPMENT ON THE DRAWING OF RELATED AND OTHER TRADES AND INVESTIGATE ALL POSSIBLE INTERFERENCE AND CONDITION AFFECTING THE MECHANICAL WORKS.
2. THE CONTRACTOR SHALL SUBMIT WARRANTY CERTIFICATE UPON COMPLETION OF THE PROJECT.
3. IT IS NOT INTENDED THAT THIS DRAWINGS SHALL SHOW EVERY REFRIGERANT PIPES, FITTINGS, CONTROLS AND VALVES. ALL SUCH ITEMS WHETHER SPECIFICALLY INDICATED OR NOT ON THE DRAWING, SHALL BE FURNISHED AND INSTALLED IF NECESSARY TO COMPLETE THE SYSTEM TO THE SATISFACTION OF THE OWNER.
4. ALL WORKS SHALL BE DONE UNDER THE IMMEDIATE SUPERVISION OF THE DULY QUALIFIED & COMPETENT MECHANICAL ENGINEER.
5. ALL WORK PERFORMED SHALL COMPLY WITH THE LATEST REGULATION OF PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS CODE.
6. EXHAUST FANS SHALL BE DUCTED TYPE, PREFERRED BRAND SHALL BE KDK OR APPROVED EQUAL.

LEGEND :	
	- WINDOW TYPE (NUMBER INDICATES CAPACITY) (HP - HORSE POWER, T = TONS)
	- WALL MOUNTED SPLIT TYPE (NUMBER INDICATES CAPACITY) (HP - HORSE POWER, T = TONS)
	- FLOOR MOUNTED SPLIT TYPE (NUMBER INDICATES CAPACITY) (HP - HORSE POWER, T = TONS)
	- AIRCON. CONDENSING UNIT (OUTDOOR UNIT)
	- INSULATED REFRIGERANT PIPE LINE



01 **GROUND FLOOR A/C LAYOUT PLAN**
M-01 SCALE: 1:100

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27 P. ACHARON BOULEVARD, BRGY. DAD. SOUTH, GEN. SANTOS CITY ☎ No: 301-1917

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TIN:	123-875-856

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FELIX R. CAÑIZARES
PROF. MECHANICAL ENGINEER
PRC Reg.No.: 3129 PTR No.: .
TIN No.: 144-854-544 Date: 11/17 Iss.: GSC

PROJECT TITLE / LOCATION
LEARNING RESOURCE CENTER (LIBRARY) AND MULTI MEDIA CENTER
PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

APPROVED BY
CHUCHI P. GARGANERA, PH. D.
OWNER
ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

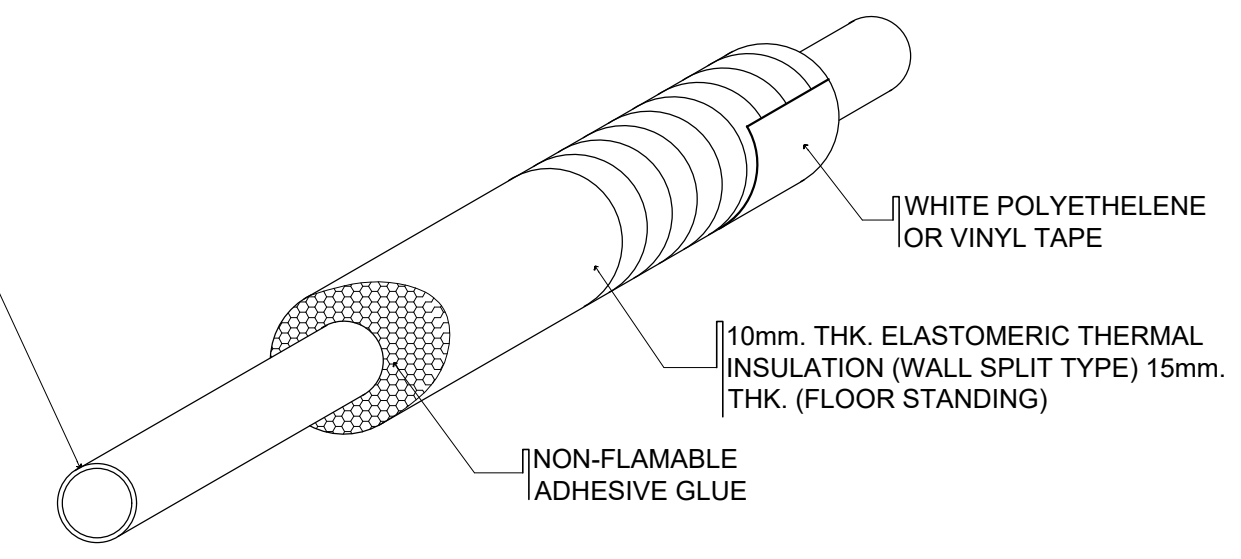
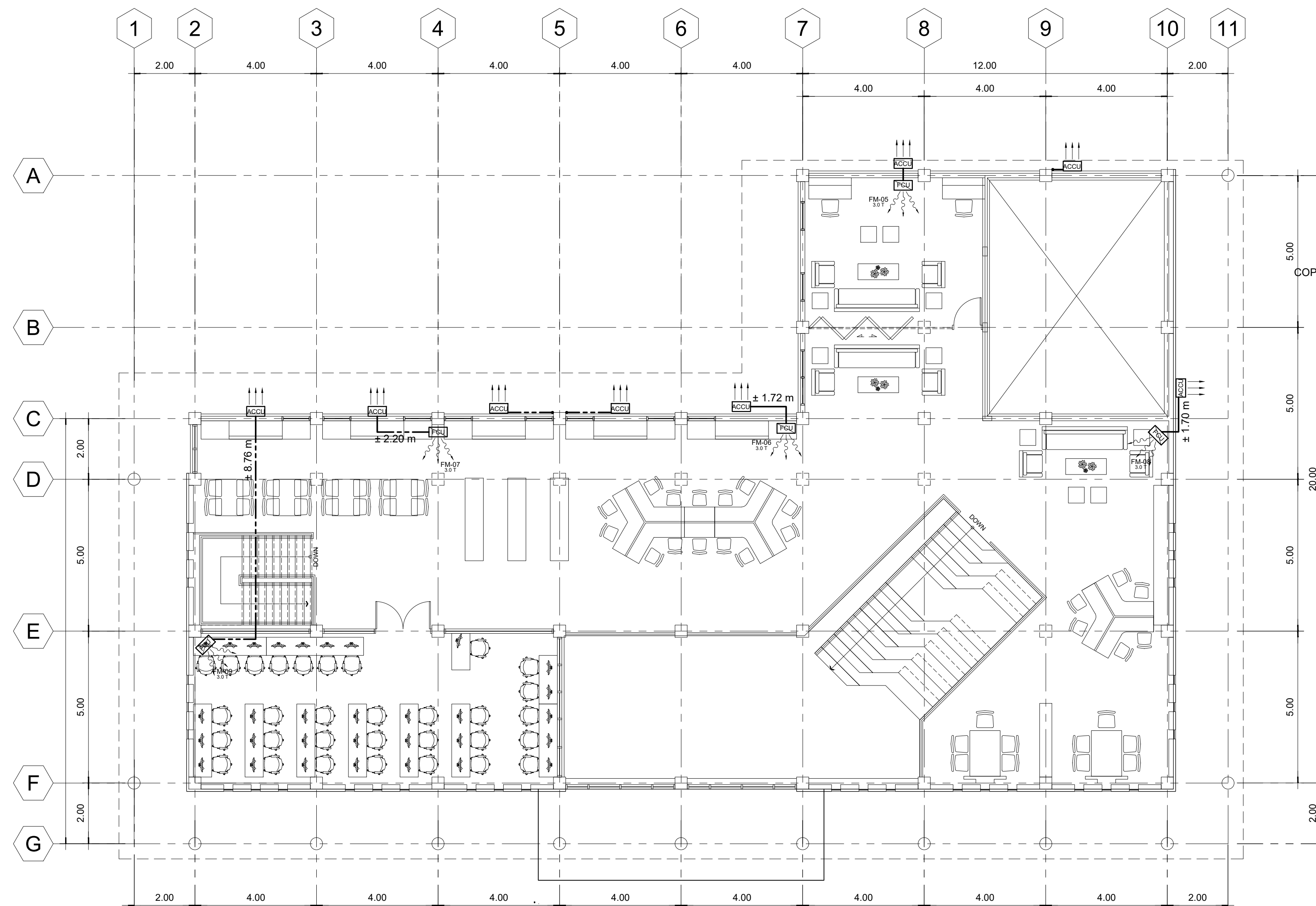
PREPARED BY:
RANILE ESPINA CORDOVA, uap
JUNIOR ARCHITECT
CHECKED BY :

RESIDENT ENGINEER

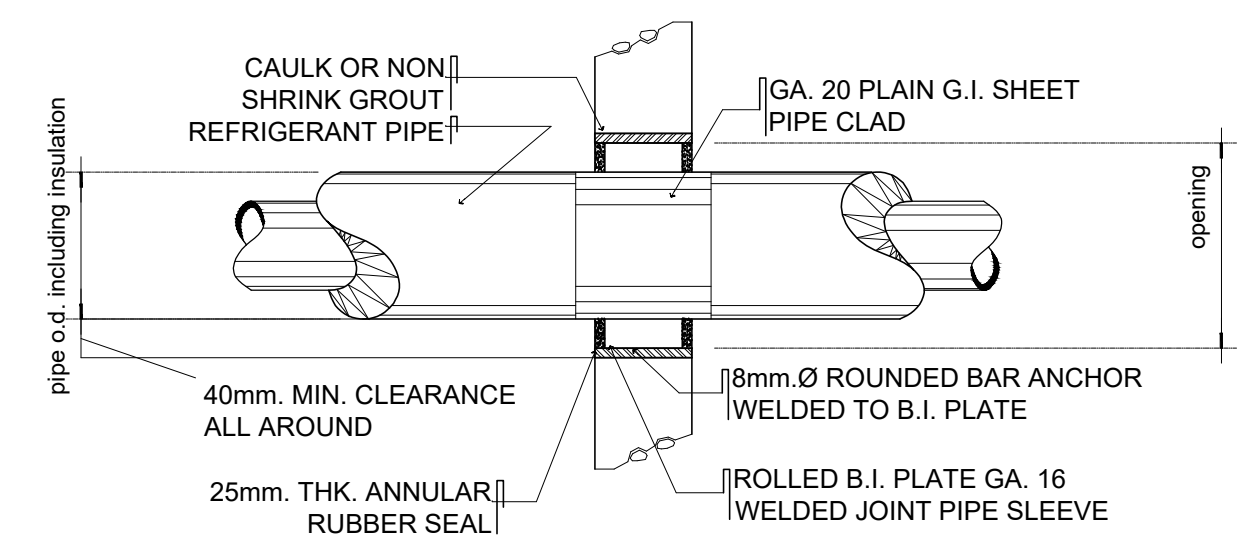
SHEET NO.	
M-01	
19	26

LEGEND :

	- WINDOW TYPE (NUMBER INDICATES CAPACITY) (HP - HORSE POWER, T = TONS)
	- WALL MOUNTED SPLIT TYPE (NUMBER INDICATES CAPACITY) (HP - HORSE POWER, T = TONS)
	- FLOOR MOUNTED SPLIT TYPE (NUMBER INDICATES CAPACITY) (HP - HORSE POWER, T = TONS)
	- AIRCON. CONDENSING UNIT (OUTDOOR UNIT)
	- INSULATED REFRIGERANT PIPE LINE



02 REFRIGERANT PIPE INSULATION DETAILS
M-02 NTS



03 PIPE THRU' WALL DETAILS
M-02 NTS

01 SECOND FLOOR POWER LAYOUT PLAN
M-02 SCALE: 1:100

TABULATION OF EQUIPMENTS

TYPE OF AIRCON	COOLING CAP.		EER	ELECTRICAL SUPPLY			
	HP / TR	KJ/hr		WATTAGE	VOLTAGE	PHASE	CYCLE
WM-01	2.5 HP	23,500	9.70	2,300	230	1	60
FM-01	3.0 TR	37,980	9.10	3,950	230	1	60
FM-02	3.0 TR	37,980	9.10	3,950	230	1	60
FM-03	3.0 TR	37,980	9.10	3,950	230	1	60
FM-04	3.0 TR	37,980	9.10	3,950	230	1	60
FM-05	3.0 TR	37,980	9.10	3,950	230	1	60
FM-06	3.0 TR	37,980	9.10	3,950	230	1	60
FM-07	3.0 TR	37,980	9.10	3,950	230	1	60
FM-08	3.0 TR	37,980	9.10	3,950	230	1	60
FM-09	3.0 TR	37,980	9.10	3,950	230	1	60
WDT-01	1.0 HP	9,500	10.60	900	230	1	60

LEGEND:

TR - TONS OF REFRIGERANTS
KW - KILOWATTS
HP - HORSE POWER
BTU / HR - BRITISH THERMAL UNITS PER HOUR

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27 P. ACHARON BOULEVARD, BRGY. DAD. SOUTH, GEN. SANTOS CITY ☎ No: 301-1917

MICHAEL T. ANG, fuap
ARCHITECT

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FELIX R. CAÑIZARES
PROF. MECHANICAL ENGINEER

PRC Reg.No.: 3129 PTR No.: .
TIN No.: 144-954-544 Date: 11 / 17 Iss.: GSC

PROJECT TITLE / LOCATION

LEARNING RESOURCE CENTER (LIBRARY) AND MULTI MEDIA CENTER
PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

APPROVED BY

CHUCHI P. GARGANERA, PH. D.
OWNER

ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

PREPARED BY:

RANILE ESPINA CORDOVA, uap
JUNIOR ARCHITECT

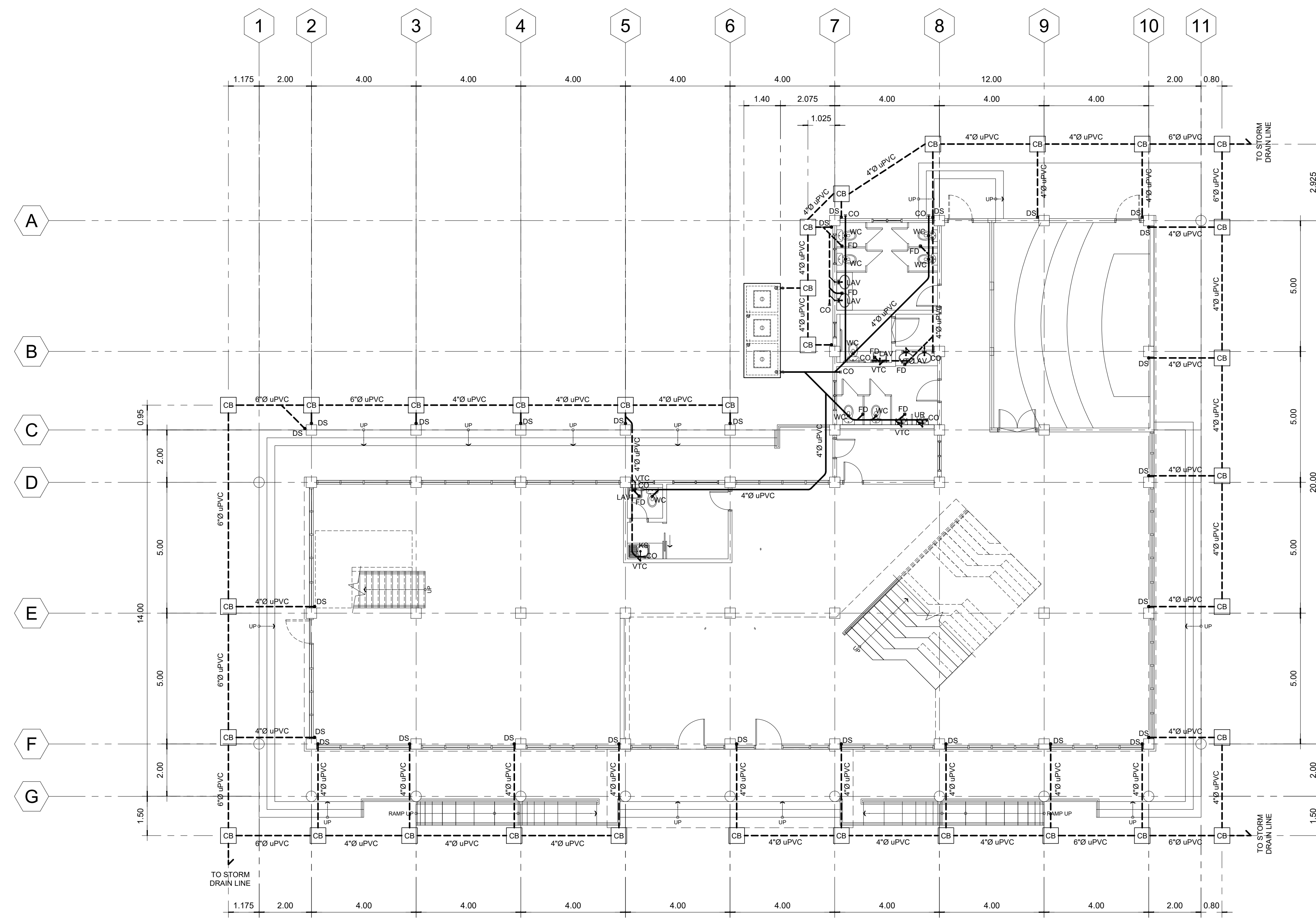
CHECKED BY:

RESIDENT ENGINEER

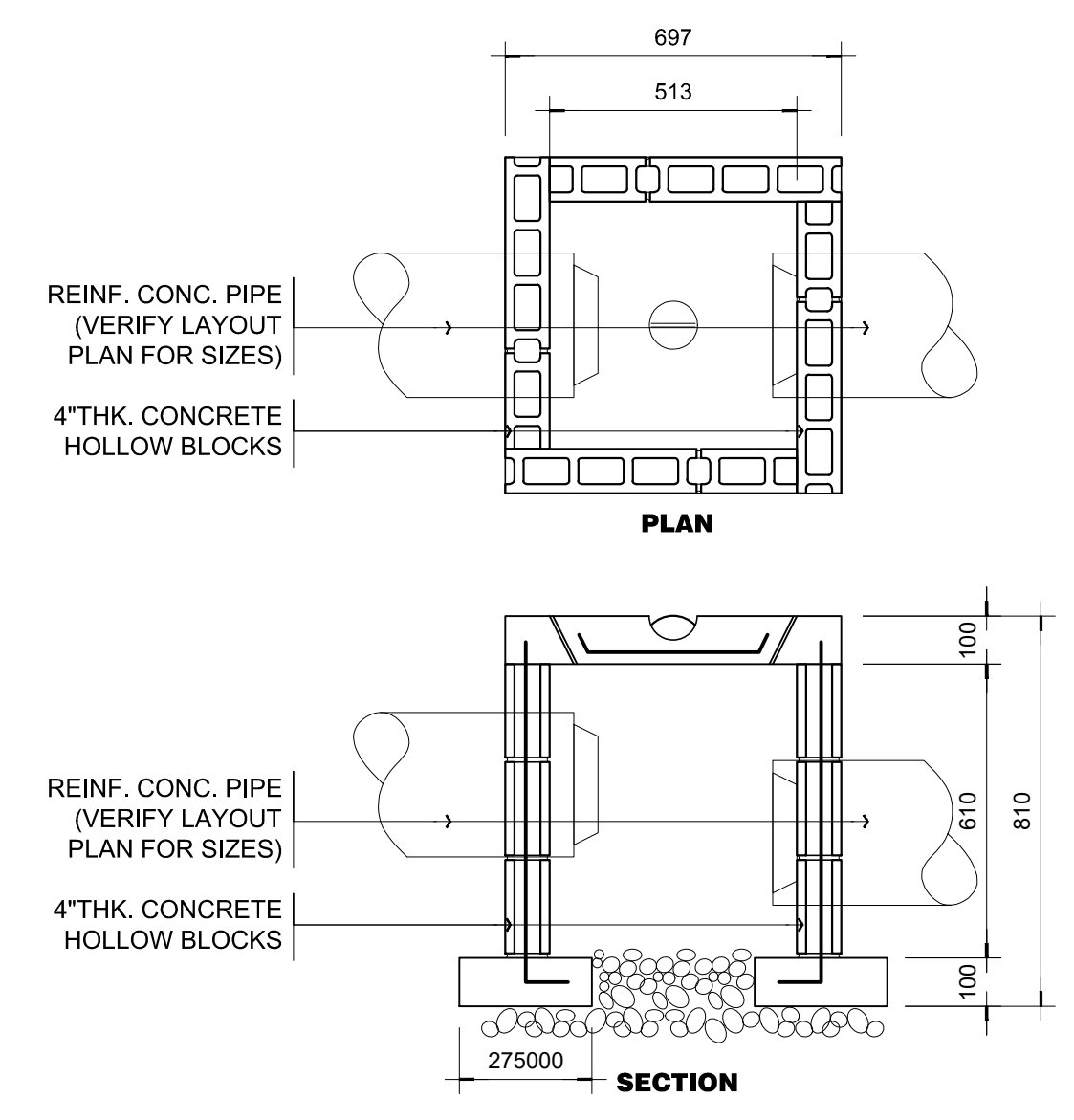
SHEET NO.

M-02
20 26

LEGEND :							
WC	WATER CLOSET	SS	SOIL STACK	FV	FIXTURE VENT	HB	HOSE BIB
LAV	LAVATORY	VTC	VENT. THRU' CEILING	SK	SLOP SINK	FT	FAUCET
KS	KITCHEN SINK	VS	VENT. STACK	DS	DOWN SPOUTS	SSO	SEWER STUB-OUT
FD	FLOOR DRAIN	SV	STACK VENT.	RD	ROOF DRAIN	WSO	WATER SUPPLY STUB-OUT
UR	URINAL	WV	WET VENT	CO	CLEAN OUT		



01 GROUND FLOOR SEWER LAYOUT PLAN
SCALE: 1:100



02 CATCH BASIN DETAILS
SCALE: 1:15

SPECIFICATIONS:

- ALL PLUMBING WORKS AND INSTALLATIONS SHALL CONFORM WITH THE LATEST EDITION OF NATIONAL PLUMBING CODE RULES AND REGULATION OF THE ENFORCING AUTHORITY CONCERNED AND CITY.
- ALL HORIZONTAL PIPINGS SHALL RUN IN PRACTICAL ALIGNMENT AND SHALL BE PROVIDED WITH SLOPE OF NOT LESS THAN 1 SLOPE AND SUPPORTED OF ANCHORD EVERY 3.00M. INTERVALS.
- ALL MATERIALS SHALL BE NEW AND APPROVED TYPES:
 - A.] FOR SANITARY LINES:
 - 2" PVC PIPES FOR VENTS AND FIXTURES
 - 4" PVC PIPES FOR WC, FD, CO.
 - B.] FOR WATER LINES:
 - 1/2" PPR PIPE FOR FIXTURES
 - 3/4" PPR PIPE FOR BRANCHES
 - 1" & 1 1/2" PPR PIPE FOR MAIN SUPPLY LINE
- ALL PLUMBING WORKS AND INSTALLATIONS SHALL BE STRICTLY SUPERVISED BY A DULY REGISTERED MASTER PLUMBER.

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DESIGNS BUILT • PLUMBING DESIGN
27 P. ACHARON BOULEVARD, BRGY. DAD. SOUTH, GEN. SANTOS CITY ☎ No: 301-1917

MICHAEL T. ANG, fuap
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MICHAEL T. ANG
MASTER PLUMBER
PRC Reg.No.: 2174 PTR No.: 7193603
TIN No.: 123-875-856 Date: 01/10/17

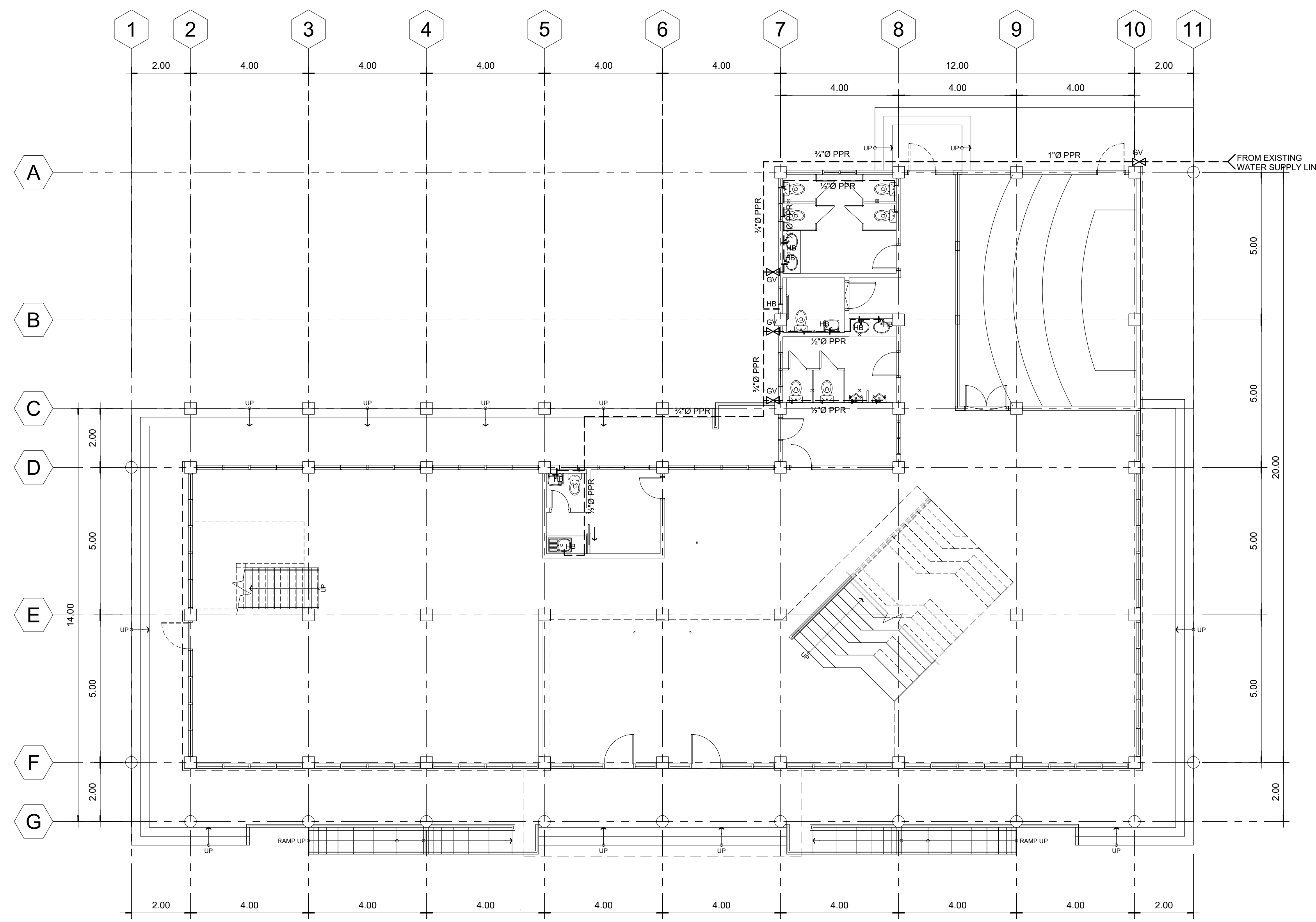
PROJECT TITLE / LOCATION
LEARNING RESOURCE CENTER (LIBRARY) AND MULTI MEDIA CENTER
PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

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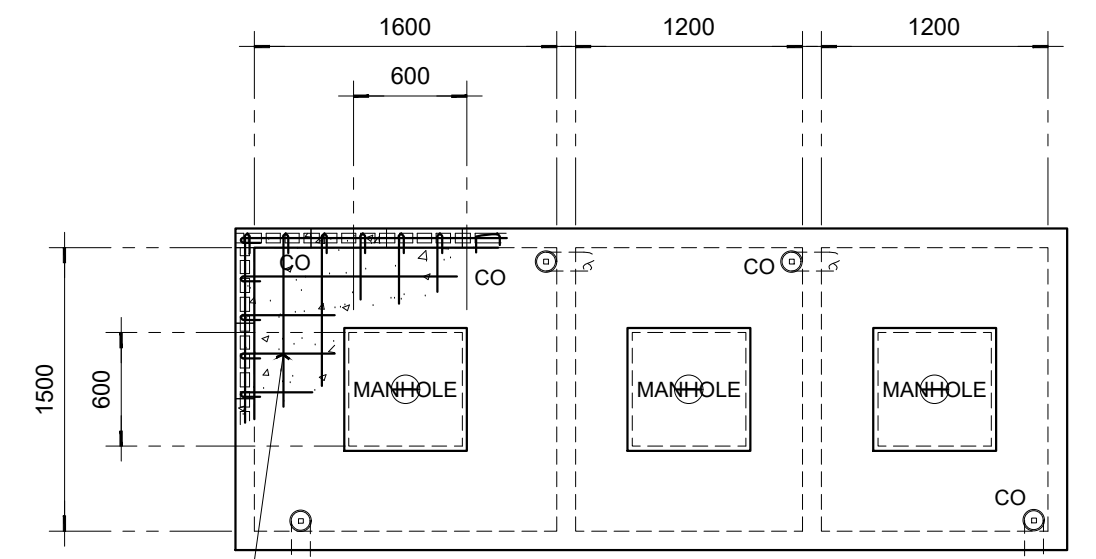
PREPARED BY:
RANILE ESPINA CORDOVA, uap
JUNIOR ARCHITECT
CHECKED BY:
RESIDENT ENGINEER

SHEET NO.	
P-01	
21	26

LEGEND :							
WC	WATER CLOSET	SS	SOIL STACK	FV	FIXTURE VENT	HB	HOSE BIB
LAV	LAVATORY	VTC	VENT. THRU' CEILING	SK	SLOP SINK	FT	FAUCET
KS	KITCHEN SINK	VS	VENT. STACK	DS	DOWN SPOUTS	SSO	SEWER STUB-OUT
FD	FLOOR DRAIN	SV	STACK VENT.	RD	ROOF DRAIN	WSO	WATER SUPPLY STUB-OUT
UR	URINAL	WV	WET VENT	CO	CLEAN OUT		



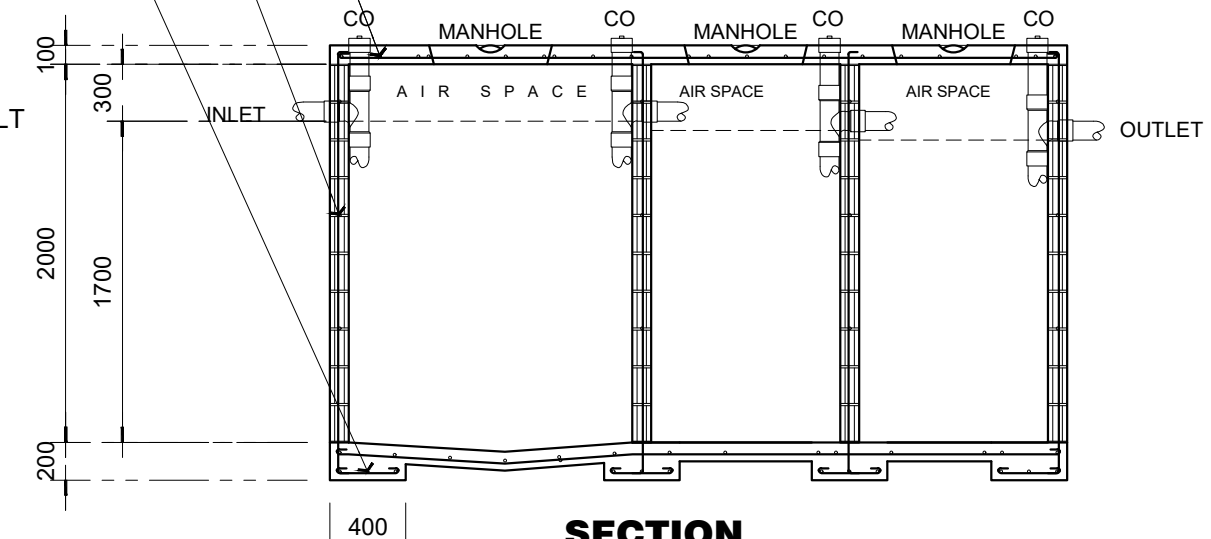
01 **GROUND FLOOR WATER SUPPLY LAYOUT PLAN**
P-02 SCALE: 1:100



PLAN

12mmØ DEF. BARS SPACED @ 200mm O.C. B.W
10mmØ VERTICAL AND HORIZONTAL BARS SPACED @ 600mm AND @ EVERY 3 LAYERS OF CHB ON CENTER RESPECTIVELY
3-10mmØ LONGITUDINAL BARS WITH 10mmØ TRANSVERSE BARS SPACED @ 300mm O.C.

NOTE:
INSIDE WALLS OF SEPTIC VAULT SHALL BE PLASTERED



SECTION

02 **SEPTIC VAULT "01" DETAILS**
P-02 SCALE: 1:40

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DESIGNS BUILT • PLUMBING DESIGN
27 P. ACHARON BOULEVARD, BRGY. DAD. SOUTH, GEN. SANTOS CITY ☎ No: 301-1917

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MICHAEL T. ANG
MASTER PLUMBER
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TIN No.: 123-875-856 Date: 01/10/17

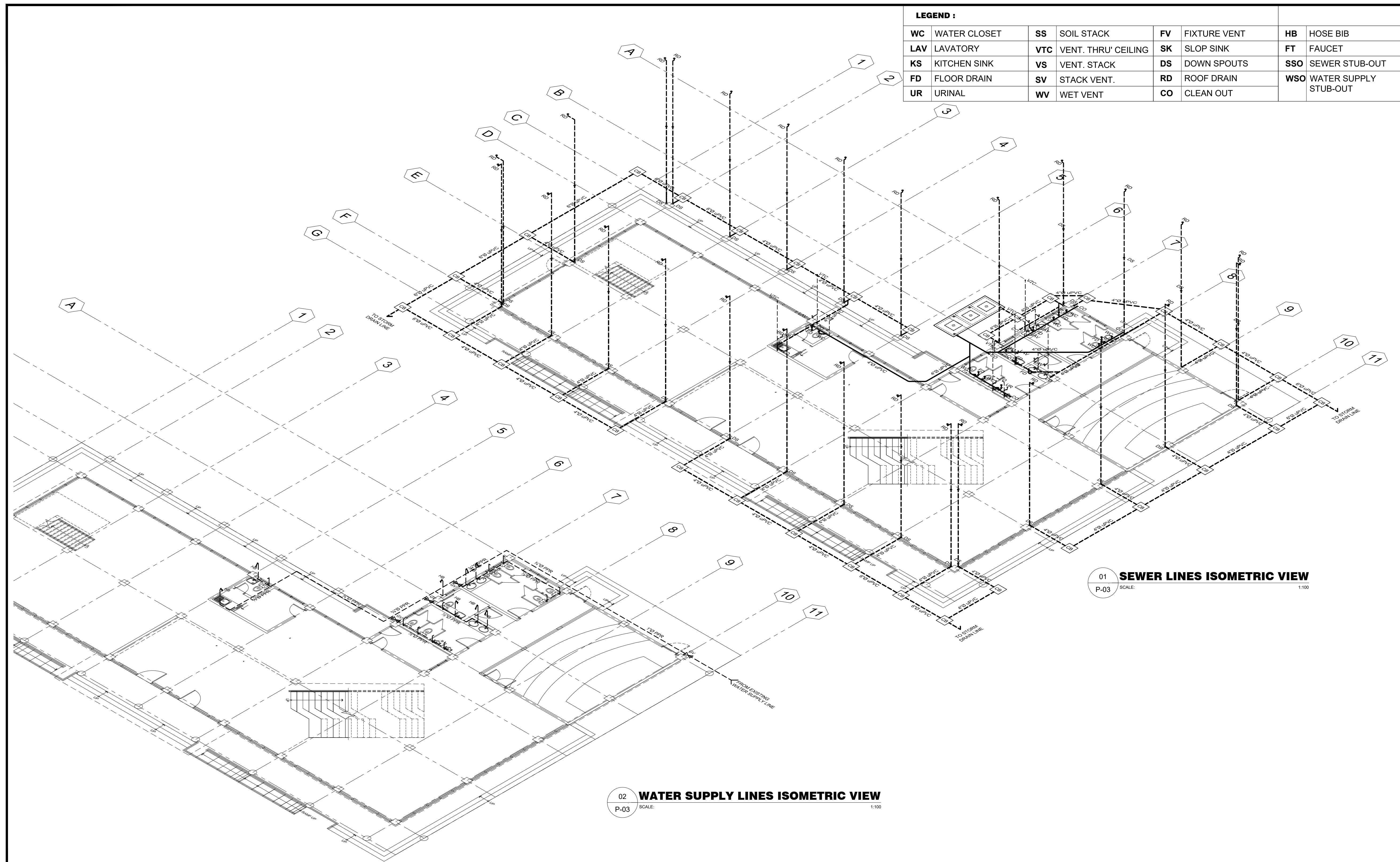
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PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

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CHUCHI P. GARGANERA, PH. D.
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ADDRESS: PSHS-SOCCSKSARGEN Campus, Brgy. Paraiso, Koronadal City

PREPARED BY:
RANILE ESPINA CORDOVA, uap
JUNIOR ARCHITECT
CHECKED BY:
RESIDENT ENGINEER

SHEET NO.	
P-02	
22	26

LEGEND :							
WC	WATER CLOSET	SS	SOIL STACK	FV	FIXTURE VENT	HB	HOSE BIB
LAV	LAVATORY	VTC	VENT. THRU' CEILING	SK	SLOP SINK	FT	FAUCET
KS	KITCHEN SINK	VS	VENT. STACK	DS	DOWN SPOUTS	SSO	SEWER STUB-OUT
FD	FLOOR DRAIN	SV	STACK VENT.	RD	ROOF DRAIN	WSO	WATER SUPPLY STUB-OUT
UR	URINAL	WV	WET VENT	CO	CLEAN OUT		



01 SEWER LINES ISOMETRIC VIEW
SCALE: 1:100

02 WATER SUPPLY LINES ISOMETRIC VIEW
SCALE: 1:100

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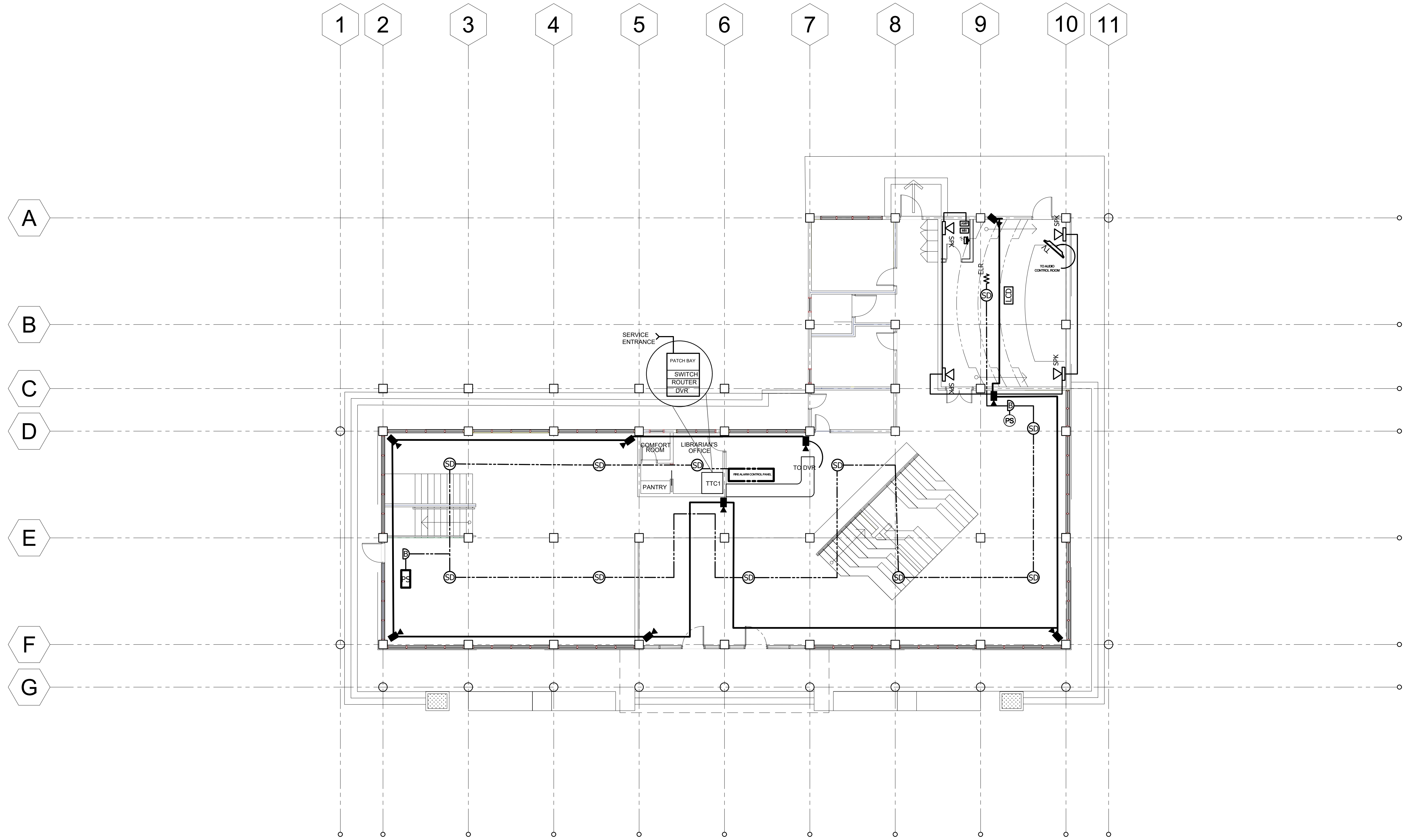
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JUNIOR ARCHITECT
CHECKED BY:
RESIDENT ENGINEER

SHEET NO.	
P-03	
23	26



01 **GROUND LAN, SECURITY AND FLOOR FIRE DETECTION & ALARM SYSTEM LAYOUT**
 ECE SCALE: 1:100

M.T. Ang
 architectural designs
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 DESIGNS BUILT • PLUMBING DESIGN
 27 P. ACHARON BOULEVARD, BRGY. DAD. SOUTH, GEN. SANTOS CITY ☎ No: 301-1917

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DARWIN D. NISPEROS
 PROF. ELECTRONICS & COMM. ENGINEER
 PRC No.: 0472, 2016 PTR No.:
 TIN No.: 169-824-299 Date: 1/1/17 ISS. AT: GSC
 IECEP No.: 09-09657 Validity: 2018

PROJECT TITLE / LOCATION
A PROPOSED LEARNING RESOURCE (LIBRARY) AND MULTIMEDIA CENTER

APPROVED BY

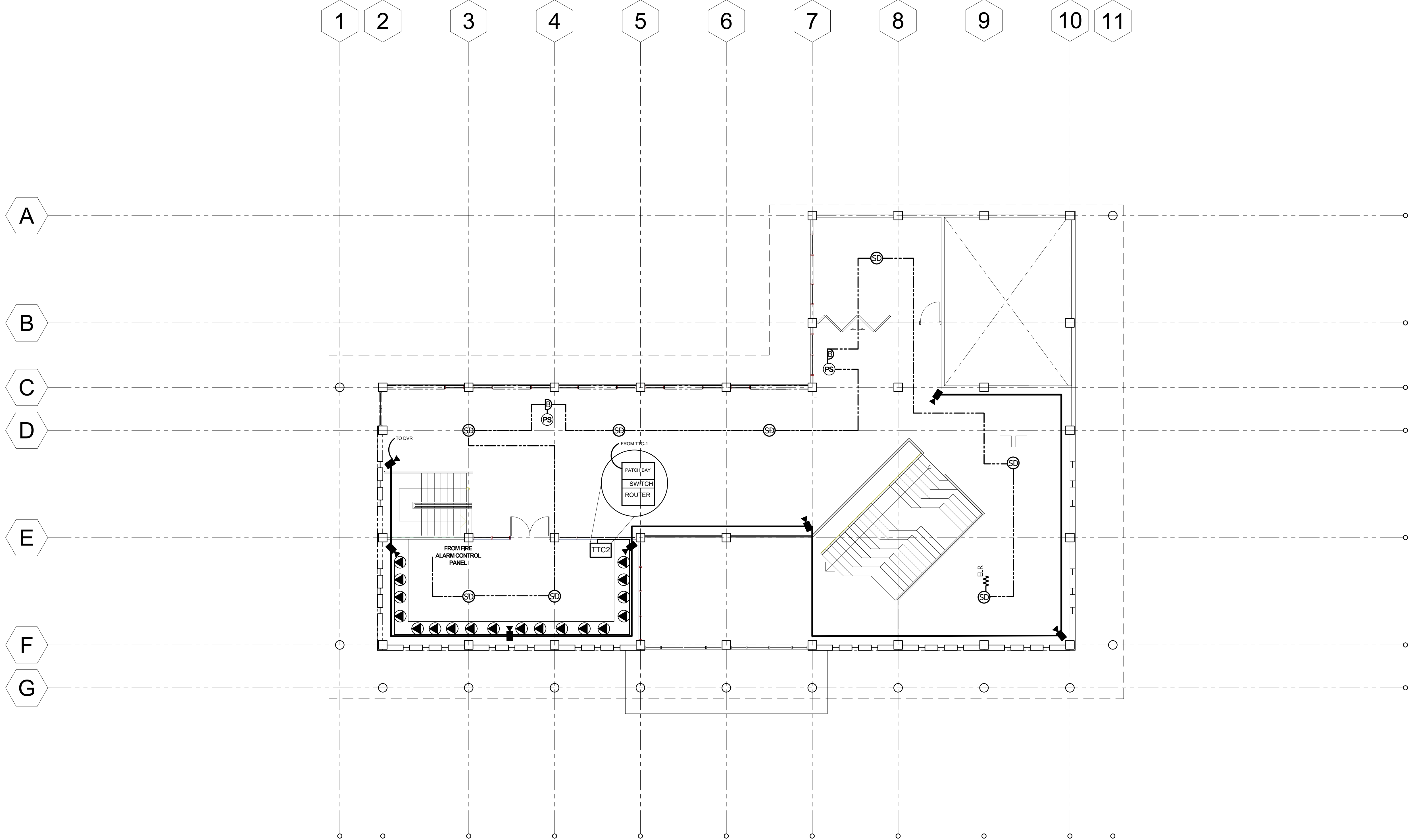
 OWNER
 ADDRESS: _____

PREPARED BY:

 JUNIOR ARCHITECT
 CHECKED BY:

 RESIDENT ENGINEER

SHEET NO.	
ECE-01	
24	26



01 **GROUND LAN, SECURITY AND FLOOR FIRE DETECTION & ALARM SYSTEM LAYOUT**
 ECE SCALE: 1:100

M.T. Ang
 architectural designs
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 DESIGNS BUILT • PLUMBING DESIGN
 27 P. ACHARON BOULEVARD, BRGY. DAD. SOUTH, GEN. SANTOS CITY ☎ No: 301-1917

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PROJECT TITLE / LOCATION
 A PROPOSED LEARNING RESOURCE (LIBRARY) AND MULTIMEDIA CENTER

APPROVED BY

 OWNER
ADDRESS: _____

PREPARED BY:

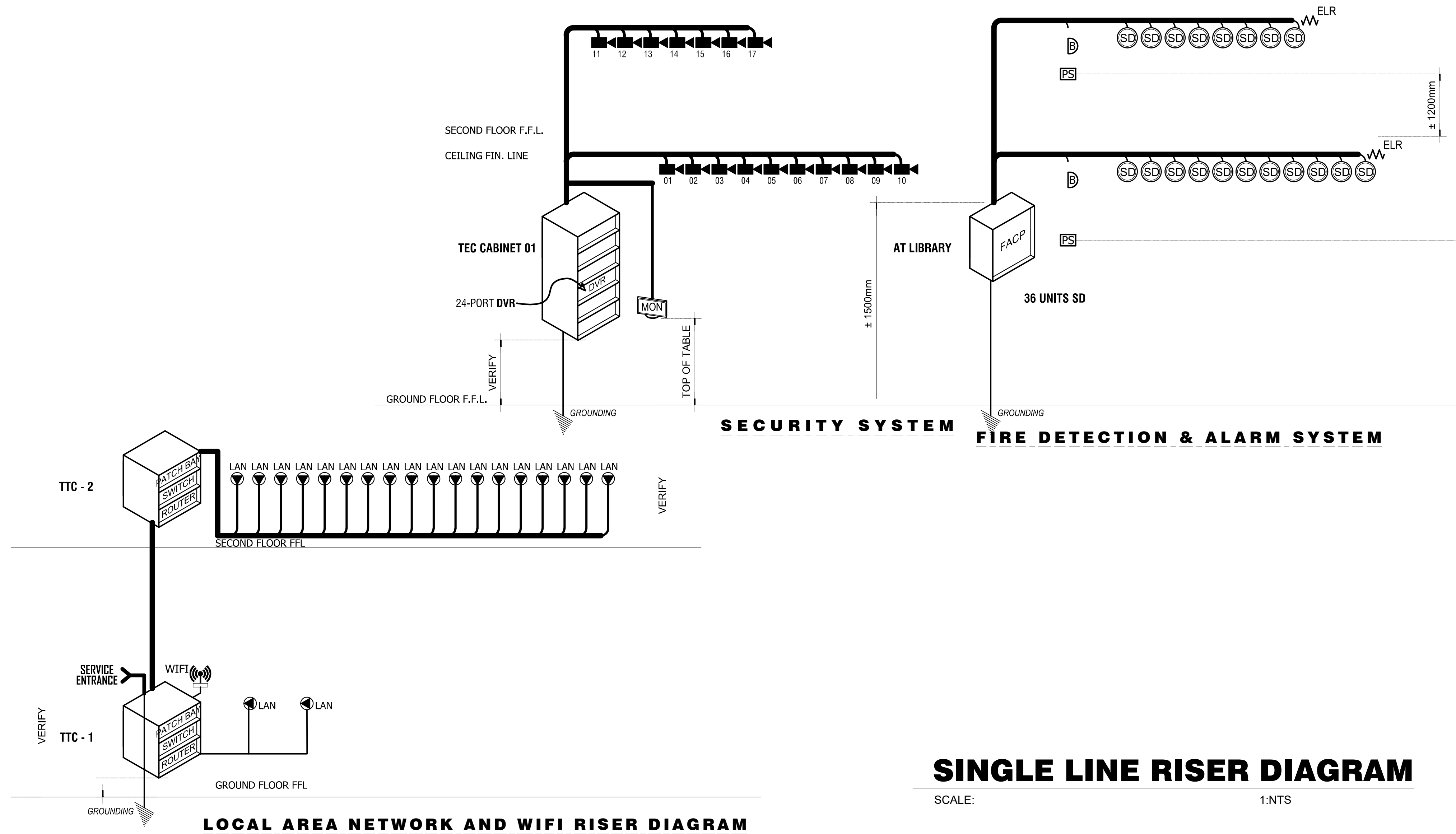
 JUNIOR ARCHITECT
CHECKED BY :

 RESIDENT ENGINEER

SHEET NO.	
ECE-02	
25	26

LEGEND/SYMBOLS/ ABBREVIATIONS:

FACP	- FIRE ALARM CONTROL PANEL
FDAS	- FIRE DETECTION & ALARM SYSTEM
SD	- SMOKE DETECTOR
B	- FIRE ALARM BELL
PS	- FIRE ALARM PULL STATION
LES	- LIGHTED EXIT SIGN
ELR	- END OF LINE RESISTOR
PAS	- PUBLIC ADDRESS SYSTEM
AMP	- AMPLIFIER
SPK	- SPEAKER (ceiling-mounted type)
SPK	- SPEAKER (wall-mounted type)
CH	- CIRCUIT HOMERUN
PC	- COMPUTER
CC	- CCTV CAMERA
DVR	- DIGITAL VIDEO RECORDER
MON	- CCTV MONITOR
LAN	- LOCAL AREA NETWORK
LAN	- LAN OUTLET
TEL	- TELEPHONE OUTLET
TEL (ext.)	- TEL. EXTENSION OUTLET
TEC	- TELECOM CABINET (wall-hung type)
CaTV	- CABLE TV OUTLET
SE	- SERVICE ENTRANCE
GND	- GROUNDING
WIFI	- WIFI ROUTER (access point)



SINGLE LINE RISER DIAGRAM

SCALE: 1:NTS

GENERAL SPECIFICATIONS:

- THIS DRAWING IS SCHEMATIC REPRESENTATION OF SYSTEM ONLY. TENDERS TO DETAIL COMPLIANT OFFER BASED ON MANUFACTURER'S SYSTEM AND WIRING METHODS RECOMMENDATION.
- SMOKE DETECTOR SHALL BE INTERFACED TO FIRE ALARM SYSTEM.
- WIRING INSTALLATION (CEILING CONCEALED, EMBEDDED, EXPOSED OR SURFACED) SHALL BE USED RSC OR EMT, 15mm Ø MINIMUM.
- WIRING METHODS SHALL BE AS FOLLOWS:
 - A. SMOKE DETECTOR - 1.25 m² TF WIRE
 - B. CONTROL/ZONE MODULE - 2.0 mm² UTP WIRE
 - C. TEL/LAN CABLE - #24 AWG 4 PAIRS UTP CABLE/CAT5-E/CAT6
 - D. CCTV CABLE - RG-59/6 COAX CABLE
- CONDUIT SHALL BE PERMANENTLY AND EFFECTIVELY GROUNDING.
- THIS ARRANGEMENT IS LIMITED TO DROP WIRE ATTACHMENT OF UP TO 5 LINES.
- SPAN TO FIXTURE SHALL BE NOT EXCEED 45.7m.
- SERVICE SHALL BE SUFFICIENTLY HIGH TO PROVIDE PROPER DROP WIRE CLEARANCE OVER SIDE, STREETS OR ROADWAYS IN COMPLIANCE WITH THE CODES AND REGULATIONS.

ELECTRONIC NOTES:

- ALL ELECTRONIC WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE PROVISION OF THE LATEST EDITION OF THE PHIL. ELECTRONIC CODE, THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITIES AND THE REQUIREMENTS OF THE POWER COMPANY.
- ALL ELECTRONIC WORKS INCLUDED HEREIN SHALL BE EXECUTED BY ELECTRONIC TECHNICIAN UNDER THE DIRECT SUPERVISION OF A FULL-TIME LICENSED/PROF. ELECTRONIC AND COMMUNICATION ENGINEER. WORKS SHALL BE NEATLY PLACED, SECURELY FASTENED AND PROPERLY FINISHED.
- THE CONTRACTOR SHALL VERIFY AND ORIENT THE ACTUAL LOCATION OF SERVICE ENTRANCE FOR CONNECTION TO COMMUNICATION SUPPLY.
- ALL MATERIALS SHALL BE BRAND NEW AND SHALL CONFORM WITH THE PROVISIONS OF THE UNDERWRITERS LABORATORIES INC. IN EVERY CASE WHERE SUCH A STANDARD HAS BEEN ESTABLISHED.
- ALL CONDUITS MUST BE PROTECTED AGAINST DAMAGES BY THE ENTRANCE OF WATER AND FOREIGN MATTERS DURING CONSTRUCTION. ALL ENDS OF CONDUITS SHALL BE PLUGGED TO EXCLUDE MOISTURE AND DUST IMMEDIATELY AFTER THE CONDUITS ARE PLACED.
- UNLESS OTHERWISE SPECIFIED, ALL ELECTRONIC WIRING INSTALLATION SHALL BE USED RSC PIPE. THE MINIMUM SIZE OF CONDUIT SHALL BE 15mm Ø.
- ALL OUTLET BOXES SHALL BE GALVANIZED GA. 16, DEEP-TYPE WITH FACTORY KNOCKOUTS. PULLBOXES SHALL BE USED WHEN APPLICABLE FOR EASY PULLING OF WIRES AND SHALL BE IN ACCORDANCE WITH THE PHILIPPINE ELECTRONIC CODE REQUIREMENTS. PREFERRED BRAND FOR JUNCTION, PULLBOX OR UTILITY SQUARE BOXES SHALL BE FUMACO, AMCU, TIMCO, OR APPROVED EQUAL.
- MOUNTING HEIGHTS OF DEVICES SHALL BE: (SUBJECT TO ARCHITECT'S APPROVAL PRIOR TO INSTALLATION), DATA OUTLET SHALL BE 0.30m ABOVE FINISHED FLOOR TO CENTER OF DEVICE.
- THE PLANS AS DRAWN ARE BASED UPON THE ARCHITECTURAL PLANS AND THE DETAILS AND SHOWN CONDITION AS ACCURATELY AS IT IS POSSIBLE TO INDICATE THEM IN SCALE, THE PLANS ARE DIAGRAMMATICAL AND DOES NOT NECESSARY SHOW ALL FITTINGS NECESSARY TO FIT TO THE BUILDING CONDITIONS. THE LOCATIONS OF OUTLETS, APPARATUS AND APPLIANCES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THEIR PROPER LOCATION IN ORDER TO MAKE THEM FIT WITH THE ARCHITECTURAL DETAILS AND INSTRUCTIONS FROM THE ENGINEER'S REPRESENTATIVE AT THE SITE.

M.T. Ang
architectural designs
PLANS • DESIGNS • ESTIMATES • CONSTRUCTION MANAGEMENT •
DESIGNS BUILT • PLUMBING DESIGN
27 P. ACHARON BOULEVARD, BRGY. DAD. SOUTH, GEN. SANTOS CITY ☎ No: 301-1917

MICHAEL T. ANG, fuap
ARCHITECT

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SECTION 33 of RA 9266 | Drawing & specifications & other contract documents duly signed, stamp or sealed, as instruments of service, are the intellectual property and documents of the architect, whether the object for which they are made is executed or not it shall be unlawful for any person to duplicate or to make copies of said documents for use in the repetition of & for other projects or buildings, whether executed partly or in whole, without the written consent of architect or author of said documents.

DARWIN D. NISPEROS
PROF. ELECTRONICS & COMM. ENGINEER
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PROJECT TITLE / LOCATION
A PROPOSED LEARNING RESOURCE (LIBRARY) AND MULTIMEDIA CENTER

APPROVED BY

OWNER
ADDRESS: _____

PREPARED BY: _____
JUNIOR ARCHITECT
CHECKED BY: _____
RESIDENT ENGINEER

SHEET NO.	
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