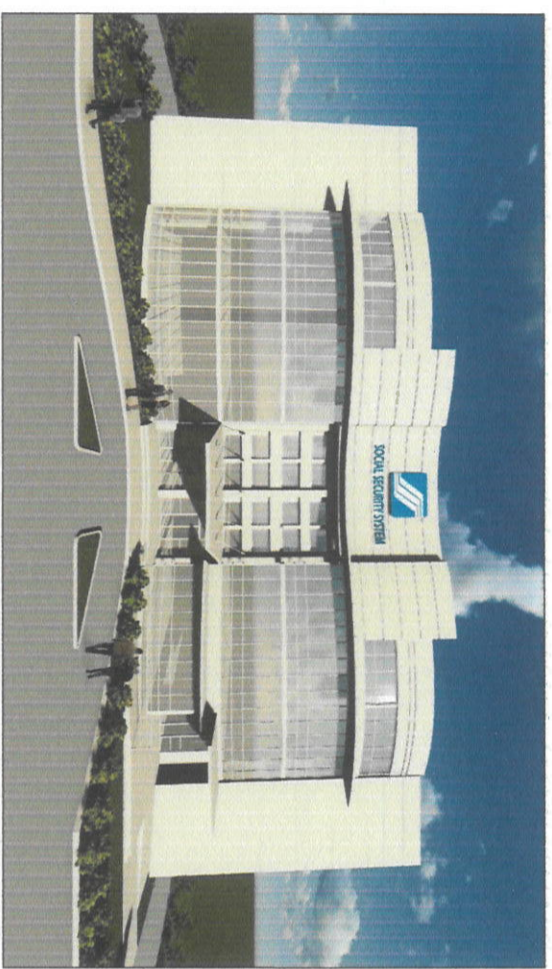
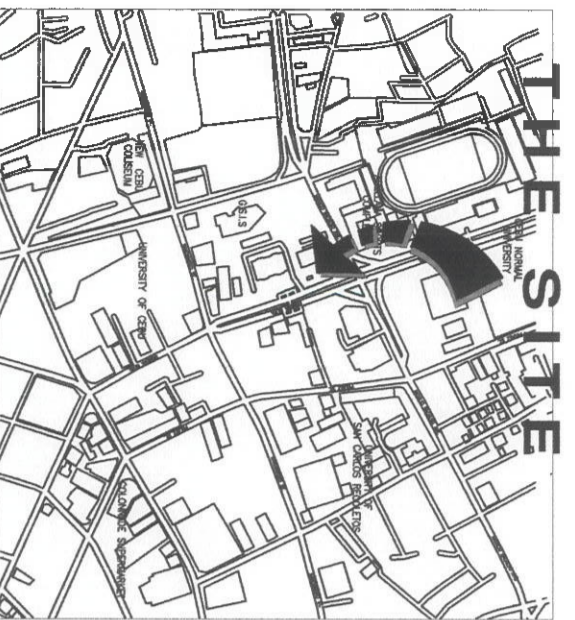


INDEX OF DRAWINGS

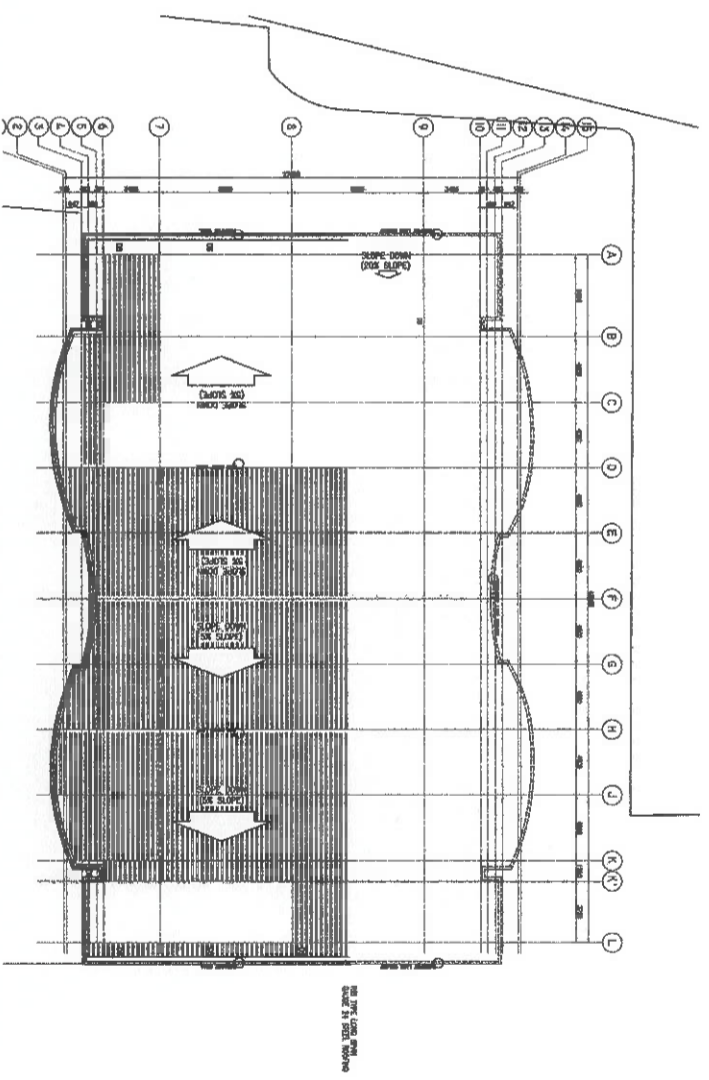
SHEET NO.	DRAWING TITLE
CS-001	MOJORITY MAP, INDEX OF DRAWINGS
	PERSPECTIVE, SITE DEVELOPMENT PLAN
STRUCTURAL	
S-001	GENERAL NOTES, TYPICAL CONCRETE REPAIR DETAILS
	TYP. BEAM RETROFITTING DETAIL FOR FLEXURE & SHEAR
	TYP. COLUMN RETROFITTING DETAIL
S-002	SUMMARY OF COLUMNS, BEAMS AND GIRDERS RETROFITTING
S-003	GROUND FLOOR FRAMING PLAN SHOWING COLUMNS FOR RETROFITTING
	ECH DETAIL, TYP. COLUMN RETROFITTING SECTION DETAIL
S-004	SECOND FLOOR FRAMING PLAN SHOWING BEAMS FOR FLEXURE ENHANCEMENT
S-005	SECOND FLOOR FRAMING PLAN SHOWING BEAMS FOR SHEAR ENHANCEMENT
S-006	THIRD FLOOR FRAMING PLAN SHOWING BEAMS FOR FLEXURE ENHANCEMENT
S-007	THIRD FLOOR FRAMING PLAN SHOWING BEAMS FOR SHEAR ENHANCEMENT
S-008	DECK FLOOR FRAMING PLAN SHOWING BEAMS FOR FLEXURE ENHANCEMENT
S-009	DECK FLOOR FRAMING PLAN SHOWING BEAMS FOR SHEAR ENHANCEMENT



1 EXTERIOR PERSPECTIVE
CS-001 SCALE NTS



2 LOCATION PLAN
CS-001 SCALE NTS



3 SITE DEVELOPMENT PLAN
CS-001 SCALE NTS

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DATE: JANUARY 06, 2020
PLACE: MACTAN CITY

OWNER
SOCIAL SECURITY SYSTEM (SSS)
EAST MARINE, DULUAN, QUEZON CITY

CLIENT
APPROVED BY:

PROJECT TITLE/LOCATION
PROPOSED STRUCTURAL RETROFITTING OF SSS CEBU BUILDING
REG. KALIBRIHAN, OSMEÑA BLVD., CEBU CITY

SHEET CONTENTS
**EXTERIOR PERSPECTIVE
LOCATION PLAN
SITE DEVELOPMENT PLAN**

REMARKS: R.A. 9268 SEC. 33
REPAIRS AND STRENGTHENING OF EXISTING STRUCTURES AND CONSTRUCTION OF NEW STRUCTURES FOR SERVICE BUILDING THE ARCHITECTURE ENGINEER THE CLIENT FOR WHICH THE ARCHITECTURE ENGINEER IS NOT TO BE RESPONSIBLE OR TO MAKE OPINIONS OF SAID ARCHITECTURE ENGINEER OR OTHER PROFESSIONALS OF BUILDINGS AND OTHER PROFESSIONALS OF SAID OCCUPATIONS. ARCHITECT OR AUTHOR OF SAID DOCUMENTS.

COORD	DATE	NO.
APP	JUNE 2020	
DESIGNED	DATE	
APP	JUNE 2020	
APPROVED	DATE	
ACD	JUNE 2020	0

REVISIONS	CHK	DATE	PAPER SIZE	SHEET NO.
			20X30	CS-001
			SCALE	PROJECT NO.
			AS SHOWN	SO-G-18-018

RETROFITTING

GENERAL NOTES:

A. GENERAL

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SPECIFIED.
2. ALL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS.
3. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER THE SCALE SHOWN ON PLANS, SECTIONS, AND DETAILS.
4. THE CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS AND CONDITIONS AT THE SITE PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR SHALL SUBMIT WORKING / SHOP DRAWINGS FOR ANY PROPOSED CHANGES TO SUIT ACTUAL FIELD CONDITIONS WHICH ARE SUBJECT FOR THE APPROVAL OF THE CONSULTANT.
6. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFETY MEASURES AT THE SITE TO PROTECT LIVES, PROPERTIES, EXISTING STRUCTURES AND ENVIRONMENT.
7. NO STRUCTURE SHALL BE CONSTRUCTED UNTIL ALL PREPARATIONS HAS BEEN APPROVED BY THE CONSULTANT.

B. CONCRETE

1. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS PERIOD: $f_c = 28 \text{ MPa}$
2. CONCRETE COVER TO STEEL & TIES = 40MM
3. ALL DEPOSITED CONCRETE SHALL BE COMPACTED USING VIBRATORS.
4. BEFORE CONCRETE IS POURED, CHECK WITH ALL TRADES TO ENSURE PROPER PLACEMENT OF ALL OPENINGS, SLEEVES, CURBS, CONDUITS, ETC. RELATIVE TO THE WORK.
5. WHEN CONCRETE WILL BE EXPOSED TO EXTERNAL SOURCES OF CHLORIDES IN SEWAGES, SUCH AS DRAINING SLOPS, BRACKISH WATER, SEWAGE OR SPRAY FROM THESE SOURCES, CONCRETE MUST BE PROPORTIONED TO SATISFY THE SPECIAL EXPOSURE REQUIREMENTS OF ACI 318-14.
6. ALL CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF 7 CONSECUTIVE DAYS IMMEDIATELY AFTER POURING BY THE USE OF WET BURLAP.

C. REINFORCING STEEL:

1. UNLESS OTHERWISE SPECIFIED ON PLANS, ALL REINFORCING BARS SHALL BE DEVELOPED WITH A MINIMUM YIELD STRENGTH $f_y = 414 \text{ MPa}$ (60000 PSI) FOR #12 AND ABOVE AND $f_y = 275 \text{ MPa}$ (40000 PSI) FOR #10 AND BELOW.
2. ALL REINFORCING BARS SHALL BE CLEANED OF RUST, GREASE OR OTHER MATERIALS WHICH TEND TO WEAKEN BOND.
3. ALL REINFORCING BARS SHALL BE ACCURATELY AND SECURELY PLACED BEFORE POURING CONCRETE OR APPLYING MORTAR OR GROUT.
4. LAPRED SPICES SHALL BE STAGGERED WHERE POSSIBLE.
5. UNLESS INDICATED OTHERWISE, SPlicing OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH ACI- 318-95.

LAP SPICES IN TENSION FOR BEAMS, COLUMNS AND WALLS (MM)

BAR DIA. (MM)	f_y (MPa)	f_y (ksi)	$f_c = 21 \text{ MPa}$ (3000 psi)			$f_c = 28-35 \text{ MPa}$ (4000-5000 psi)		
			TOP	OTHERS	TOP	OTHERS		
10	275	40	300	300	300	300		
12	275	40	300	300	300	300		
14	414	60	525	400	450	350		
16	414	60	775	600	675	525		
20	414	60	1075	825	925	725		
25	414	60	1800	1375	1550	1200		
28	414	60	2075	1600	1800	1400		
32	414	60	2475	1900	2150	1650		
36	414	60	2900	2225	2500	1925		

ANCHORAGE LENGTH TABLE

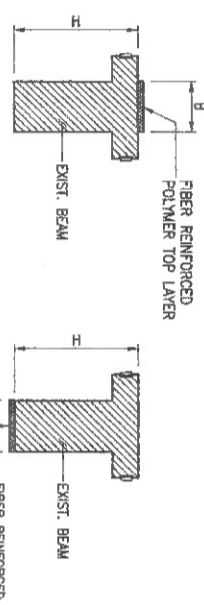
BAR DIA. (MM)	ANCHORAGE LENGTH (mm)	STANDARD HOOK (mm)			COLUMN/WALL FACE	ANCHORAGE LENGTH (mm)
		90°	180°	135°		
10	0.50	0.15	0.13	0.10	135°	
12	0.50	0.20	0.15	0.12	135°	
16	0.60	0.25	0.18	0.14	135°	
20	0.60	0.30	0.20	0.20	135°	
25	0.66	0.40	0.28	0.26	135°	
28	0.66	0.48	0.38	—	135°	
32	1.12	0.58	0.43	—	135°	
36	1.43	0.61	0.48	—	135°	

NOTES:

1. ACI SECTION 12.4 STATES THAT DEVELOPMENT LENGTH OF INDIVIDUAL BARS W/ IN A BUNDLE IN TENSION OR COMPRESSION SHALL BE THAT FOR THE INDIVIDUAL BAR, INCREASED 20% FOR THREE BAR BUNDLE AND 33% FOR FOUR BAR BUNDLE.
2. FOR COLUMNS, AT ANY LEVEL, NO MORE THAN ALTERNATE BARS SHOULD BE SPICED. NOT MORE THAN 33% OF THE BARS SHALL BE SPICED W/ IN THE REQUIRED LAP LENGTH. MIN. DISTANCE BETWEEN TWO ADJACENT BAR SPICES SHALL BE 600MM. TOP BARS ARE HORIZONTAL BARS W/ MORE THAN 300MM DEPTH OF CONCRETE CAST BELOW THE REINFORCEMENT.
3. TOP BARS ARE HORIZONTAL BARS W/ MORE THAN 300MM DEPTH OF CONCRETE CAST BELOW THE REINFORCEMENT.
4. AS MUCH AS POSSIBLE, SPICES SUBJECTED TO TENSILE STRESSES ARE DISCOURAGED. THESE SHOULD BE AVOIDED OR PROVIDED W/ STANDARD HOOKS.

D. FRP RETROFITTING

1. USE FIBER REINFORCED POLYMER (FRP) USING CARBON WITH A MINIMUM LAMINATE THICKNESS OF 1.0MM PER LAYER AND MINIMUM TENSILE STRENGTH IN PRIMARY FIBER DIRECTION OF 1000 MPa. CONCRETE REPAIR SHALL BE PERFORMED FOR ALL MEMBERS WITH DEFECTIVE CONCRETE PRIOR TO APPLICATION OF FRP.
2. CONTRACTOR TO SUBMIT CONSTRUCTION METHODOLOGY AND TECHNICAL SPECIFICATIONS FOR APPROVAL PRIOR TO IMPLEMENTATION.
3. CONTRACTOR TO PERFORM MATERIAL TESTING PRIOR TO FINAL ACCEPTANCE OF WORK.
4. THE CONTRACTOR SHALL CAREFULLY EXAMINE, COMPARE AND VERIFY THE DATA FURNISHED BY THE DRAWINGS AND SPECIFICATIONS. ANY QUERIES AS TO THE MEANING OF THE DRAWINGS OR OF THE SPECIFICATIONS OR OF ANY ERRORS/OMISSIONS AFTER ITS DISCOVERY, ANY WORK INVOLVING SUCH DISCREPANCIES SHALL BE DONE AT THE CONTRACTOR'S RISK.
5. CONTRACTOR TO VERIFY ALL DIMENSIONS AND LENGTHS OF MEMBERS.
6. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
7. THIS DRAWING IS TO BE READ SIMULTANEOUSLY WITH ALL RELEVANT ENGINEER'S AND ARCHITECT'S DRAWINGS AND WITH ALL RELEVANT SPECIFICATIONS.
8. FOR FRP RETROFITTING:
 - A. CONCRETE SURFACE PREPARATION AND CLEANLINESS PRIOR TO APPLICATION OF FRP WRAP SHALL BE IN ACCORDANCE TO MANUFACTURER'S REQUIREMENTS.
 - B. BEAMS SHALL BE RETROFITTED USING SIKAWRAP 3000 FOR FLEXURE (TOP & BOTTOM) & SIKAWRAP 3000 FOR SHEAR. SEE PLANS FOR THE NUMBER OF LAYERS.



SECTION AT SUPPORT

SECTION AT MIDSPAN

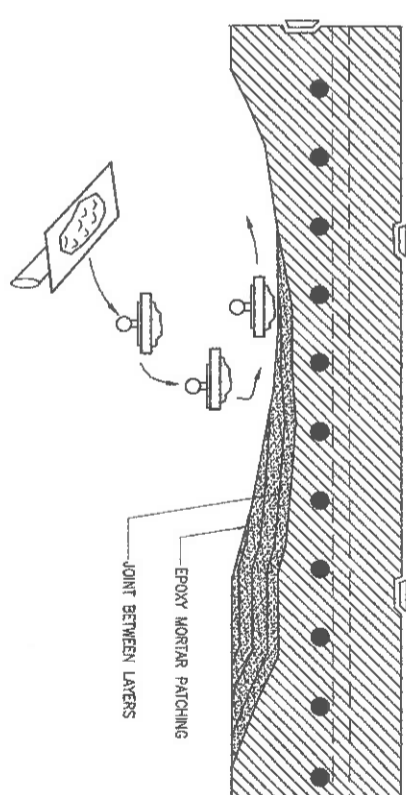
E. CONCRETE REPAIR

METHOD 1: CONCRETE REPAIR BY EPOXY PATCHING

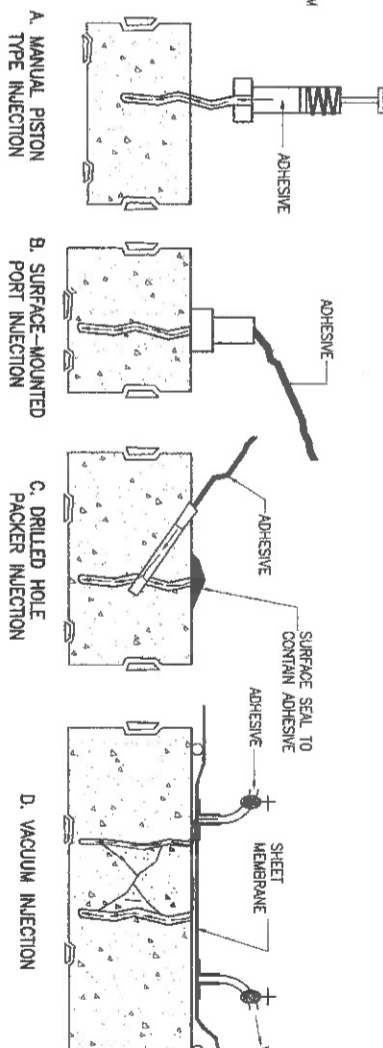
1. IDENTIFY SPALLED AREAS.
2. CHIPPING-REMOVE LOOSE CONCRETE AND CHIP TILL GOOD CONCRETE IS REACHED.
3. PREPARE STRUCTURAL EPOXY 316 PUTTY AND APPLY TO SPALLED AREA. LET EPOXY PUTTY CURE.
4. GRIND PROTRUDING EPOXY PUTTY FLUSH TO CONCRETE SURFACE.

METHOD 2: CONCRETE AND MASONRY REPAIR BY EPOXY INJECTION

1. IDENTIFY CRACKS
2. V-CUT ALONG CRACKS AND DRILL 1/2" HOLES TO A DEPTH OF APPROXIMATELY HALF THE STRUCTURE'S DIMENSION
3. CLEANING - REMOVE LOOSE CONCRETE AND CONCRETE POWDERS.
4. INSTALL 1/4" COPPER TUBINGS INTO THE DRILLED HOLES.
5. APPLICATION OF STRUCTURAL EPOXY 316 PUTTY ON V-CUTS AND AROUND PERIPHERIES OF COPPER TUBINGS, AND ALLOW PUTTY TO CURE.
6. PRESSURE INJECT STRUCTURAL EPOXY 316 PUTTY THRU THE COPPER TUBES TO FILL CRACKS AND HONEYCOMBS (REFER #6 UNIT. ALL CRACKS AND HONEYCOMBS ARE FILLED WITH STRUCTURAL EPOXY 316 AND ALLOW EPOXY TO CURE).
7. GRIND PROTRUDING COPPER TUBES AND PUTTY FLUSH TO CONCRETE SURFACE.
8. APPLY REQUIRED FINISHES (IF NECESSARY).



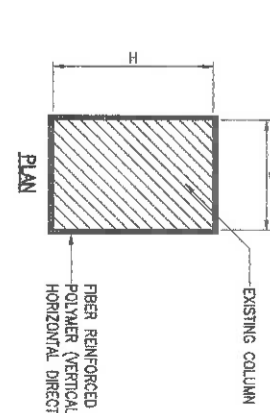
METHOD 1: CONCRETE REPAIR BY EPOXY PATCHING



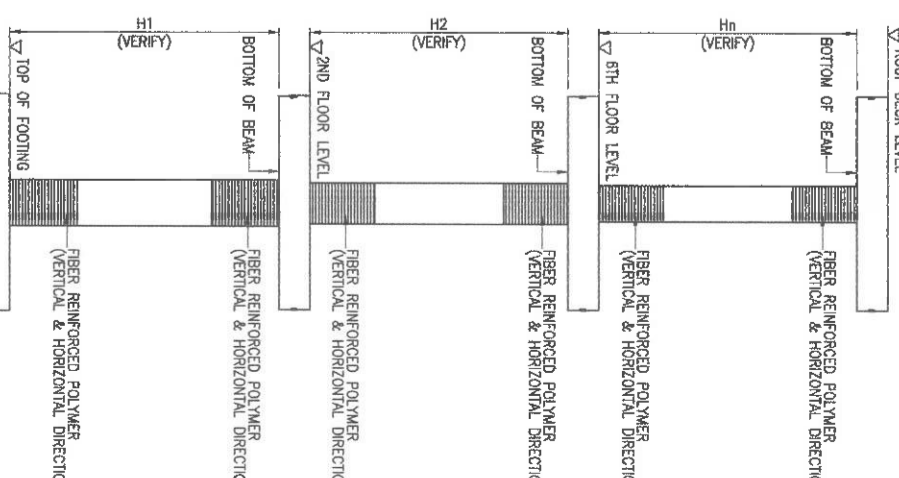
TYPICAL CONCRETE REPAIR DETAILS

NOTES:

1. UNLESS NOTED OTHERWISE, REPAIR METHOD(S) TO BE ADOPTED SHALL BE AS FOLLOWS:
 - METHOD 1: SPALLING OF CONCRETE/POOR WORKMANSHIP/ HAZARDOUS CRACKS
 - METHOD 2: CRACKING OF CONCRETE/ HONEYCOMBS
2. METHODS TO ADOPTED MAY VARY AS PER ENGINEER'S INSTRUCTION UPON CONTRACTION OF ACTUAL CONDITION DURING REPAIR.
3. THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS SHOWING MAPPING PLAN FOR EACH METHOD USED IN THE REPAIR WORKS.

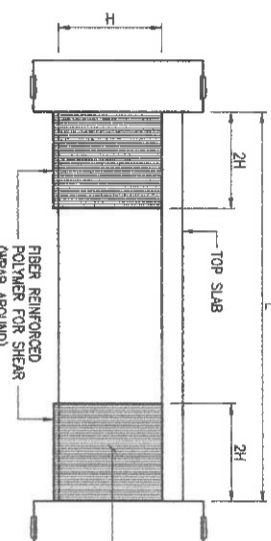


PLAN

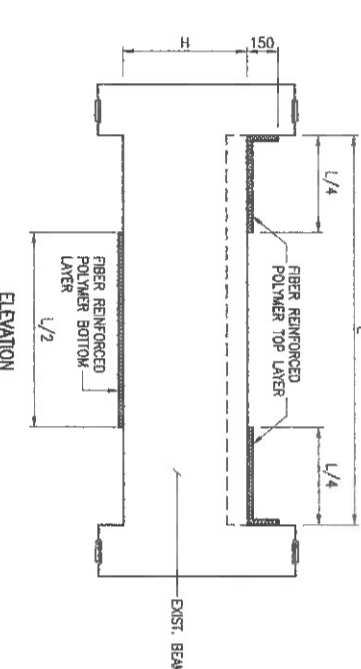


TYP. COLUMN RETROFITTING DETAIL

3 TYP. BEAM RETROFITTING DETAIL FOR SHEAR



2 TYP. BEAM RETROFITTING DETAIL FOR FLEXURE



4 TYPICAL CONCRETE REPAIR DETAILS

5 TYP. COLUMN RETROFITTING DETAIL

SUMMARY OF COLUMNS RETROFITTING

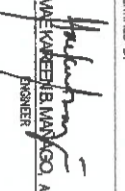
Mark	Location	Grid	Existing Size	Proposed New Dimension	Column Enlargement Details	FRP Retrofitting details
C3	Foundation to Ground	Grid K-7	450X450	-	-	1 Layer Sika Wrap 300C
		Grid K-8	450X450	-	-	1 Layer Sika Wrap 300C
	Ground to Second	Grid K-7	450X450	-	-	1 Layer Sika Wrap 300C
		Grid K-8	450X450	-	-	1 Layer Sika Wrap 300C
	Second to Third	Grid K-7	450X450	-	-	1 Layer Sika Wrap 300C
		Grid K-8	450X450	-	-	1 Layer Sika Wrap 300C
		Grid K-9	450X450	-	-	1 Layer Sika Wrap 300C
C4	Foundation to Ground	Grid B-6	450X450	-	-	1 Layer Sika Wrap 300C
		Grid B-7	450X450	-	-	1 Layer Sika Wrap 300C
	Ground to Second	Grid B-6	450X450	-	-	1 Layer Sika Wrap 300C
		Grid B-7	450X450	-	-	1 Layer Sika Wrap 300C
	Second to Third	Grid B-6	450X450	-	-	1 Layer Sika Wrap 300C
		Grid B-7	450X450	-	-	1 Layer Sika Wrap 300C
		Grid B-8	450X450	-	-	1 Layer Sika Wrap 300C
Third to Roof Deck	Grid B-6	450X450	-	-	1 Layer Sika Wrap 300C	
	Grid B-7	450X450	-	-	1 Layer Sika Wrap 300C	
	Grid B-8	450X450	-	-	1 Layer Sika Wrap 300C	
C5	Foundation to Ground	Grid K-3	As built drawing	See ECI detail	See ECI detail	-
		Grid B-13	As built drawing	See ECI detail	See ECI detail	-
	Ground to Second	Grid K-3	As built drawing	See ECI detail	See ECI detail	-
		Grid B-13	As built drawing	See ECI detail	See ECI detail	-
	Second to Third	Grid B-3	As built drawing	See ECI detail	See ECI detail	-
		Grid K-3	As built drawing	See ECI detail	See ECI detail	-
		Grid B-3	As built drawing	See ECI detail	See ECI detail	-
Third to Roof Deck	Grid K-3	As built drawing	See ECI detail	See ECI detail	-	
	Grid B-13	As built drawing	See ECI detail	See ECI detail	-	

SUMMARY OF BEAMS AND GIRDERS RETROFITTING


Floor Level	Mark	Section	Width	Depth	ENDS	FLXURE	MIDSPAN	Shear	GRID
Second Floor	267	300 600	300	600	1 Layer 300mm width, Sika Wrap 600C @ Top	1 Layer 300mm width, Sika Wrap 600C @ Top	-	-	B/W A6-A7 B/W A9-A10
	267	300 600	300	600	1 Layer 300mm width, Sika Wrap 600C @ Top	1 Layer 300mm width, Sika Wrap 600C @ Bottom	-	-	B/W A9-A10 B/W A10-A13
	265	300 600	300	600	-	1 Layer 300mm width, Sika Wrap 600C @ Bottom	-	-	B/W G4-G7 B/W G9-19
	264	300 600	300	600	1 Layer 300mm width, Sika Wrap 600C @ Top	1 Layer 300mm width, Sika Wrap 600C @ Top	-	-	B/W J7-K7 B/W K9-K10
	261	300 700	300	700	1 Layer 300mm width, Sika Wrap 600C @ Top	1 Layer 300mm width, Sika Wrap 600C @ Bottom	-	-	B/W J7-K7 B/W K9-K10
	262	300 700	300	700	1 Layer 300mm width, Sika Wrap 600C @ Top	1 Layer 300mm width, Sika Wrap 600C @ Bottom	-	-	B/W J7-K7 B/W K9-K10
	265	300 600	300	600	-	1 Layer 300mm width, Sika Wrap 600C @ Bottom	-	-	B/W B3-B6 B/W B3-B6
	267	300 600	300	600	-	1 Layer 300mm width, Sika Wrap 600C @ Bottom	-	-	B/W B3-B6 B/W B3-B6
	265	300 700	300	700	-	1 Layer 300mm width, Sika Wrap 600C @ Bottom	-	-	B/W B7-C7 B/W B7-C7
	261	300 700	300	700	-	1 Layer 300mm width, Sika Wrap 600C @ Bottom	-	-	B/W G7-I7 B/W G9-I9
Third Floor	362	300 700	300	700	1 Layer 300mm width, Sika Wrap 600C @ Top	1 Layer 300mm width, Sika Wrap 600C @ Bottom	-	-	B/W G9-I9 B/W K10-K13
	363	250 400	250	400	1 Layer 250mm width, Sika Wrap 600C @ Top	1 Layer 250mm width, Sika Wrap 600C @ Bottom	-	-	B/W K10-K13 B/W K10-K13
	367	300 600	300	600	1 Layer 300mm width, Sika Wrap 600C @ Top	1 Layer 300mm width, Sika Wrap 600C @ Bottom	-	-	B/W G9-I9 B/W K10-K13
	367	300 600	300	600	1 Layer 300mm width, Sika Wrap 600C @ Top	1 Layer 300mm width, Sika Wrap 600C @ Bottom	-	-	B/W G9-I9 B/W K10-K13
	365	300 600	300	600	-	1 Layer 300mm width, Sika Wrap 600C @ Bottom	-	-	B/W B3-B6 B/W B3-B6
	365	300 600	300	600	-	1 Layer 300mm width, Sika Wrap 600C @ Bottom	-	-	B/W B3-B6 B/W B3-B6
	361	300 700	300	700	-	1 Layer 300mm width, Sika Wrap 600C @ Bottom	-	-	B/W B7-C7 B/W B7-C7
	361	300 700	300	700	-	1 Layer 300mm width, Sika Wrap 600C @ Bottom	-	-	B/W G7-I7 B/W G9-I9
	361	300 700	300	700	-	1 Layer 300mm width, Sika Wrap 600C @ Bottom	-	-	B/W G7-I7 B/W G9-I9
	361	300 700	300	700	-	1 Layer 300mm width, Sika Wrap 600C @ Bottom	-	-	B/W G7-I7 B/W G9-I9
Roof Deck	365	300 600	300	600	1 Layer 250mm width, Sika Wrap 600C @ Top	2 Layer 250mm width, Sika Wrap 600C @ Bottom	-	-	B/W A9-B9 & A10-B10 B/W C8-E8
	D82	250 400	250	400	1 Layer 300mm width, Sika Wrap 600C @ Top	1 Layer 300mm width, Sika Wrap 600C @ Top	-	-	B/W G8-H8 B/W G8-H8
	D61A	300 700	300	700	1 Layer 300mm width, Sika Wrap 600C @ Top	1 Layer 300mm width, Sika Wrap 600C @ Top	-	-	B/W J7-K7 B/W J7-K7
	D62	300 700	300	700	1 Layer 300mm width, Sika Wrap 600C @ Top	1 Layer 300mm width, Sika Wrap 600C @ Top	-	-	B/W B3-B6 B/W B3-B6
	D65	300 600	300	600	-	1 Layer 300mm width, Sika Wrap 600C @ Bottom	-	-	B/W B3-B6 B/W B3-B6
	D65	300 600	300	600	-	1 Layer 300mm width, Sika Wrap 600C @ Bottom	-	-	B/W B3-B6 B/W B3-B6
	D62	300 700	300	700	-	1 Layer 300mm width, Sika Wrap 600C @ Bottom	-	-	B/W B7-C7 B/W B7-C7
	D61A	300 700	300	700	-	1 Layer 300mm width, Sika Wrap 600C @ Bottom	-	-	B/W B8-C8 B/W B8-C8
	D62	300 700	300	700	-	1 Layer 300mm width, Sika Wrap 600C @ Bottom	-	-	B/W B9-C9 B/W B9-C9
	D61	300 700	300	700	-	1 Layer 300mm width, Sika Wrap 600C @ Bottom	-	-	B/W C7-E7 B/W C7-E7
Deck	D61	300 700	300	700	-	1 Layer 300mm width, Sika Wrap 600C @ Bottom	-	-	B/W G9-I9 B/W G9-I9
	D61	300 700	300	700	-	1 Layer 300mm width, Sika Wrap 600C @ Bottom	-	-	B/W G9-I9 B/W G9-I9
	D61	300 700	300	700	-	1 Layer 300mm width, Sika Wrap 600C @ Bottom	-	-	B/W G9-I9 B/W G9-I9
	D61A	300 700	300	700	-	1 Layer 300mm width, Sika Wrap 600C @ Bottom	-	-	B/W B8-K8 B/W B8-K8
	D62	300 700	300	700	-	1 Layer 300mm width, Sika Wrap 600C @ Bottom	-	-	B/W B9-K9 B/W B9-K9
	D65	300 700	300	700	-	1 Layer 300mm width, Sika Wrap 600C @ Bottom	-	-	B/W K3-K6 B/W K3-K6
	D65	300 700	300	700	-	1 Layer 300mm width, Sika Wrap 600C @ Bottom	-	-	B/W K3-K6 B/W K3-K6
	D65	300 600	300	600	-	1 Layer 300mm width, Sika Wrap 600C @ Bottom	-	-	B/W K10-K13 B/W K10-K13
	D65	300 600	300	600	-	1 Layer 300mm width, Sika Wrap 600C @ Bottom	-	-	B/W K10-K13 B/W K10-K13
	D65	300 600	300	600	-	1 Layer 300mm width, Sika Wrap 600C @ Bottom	-	-	B/W K10-K13 B/W K10-K13

RETROFITTING



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 MAE WENIB MANAO ASP
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 837 ABUELE, DALMAN, QUEZON CITY

CLIENT
 APPROVED BY:


PROJECT TITLE/LOCATION
PROPOSED STRUCTURAL RETROFITTING OF SSS CEBU BUILDING
 BRSH, KALUBRAAN, OSMEÑA BLDG., CEBU CITY

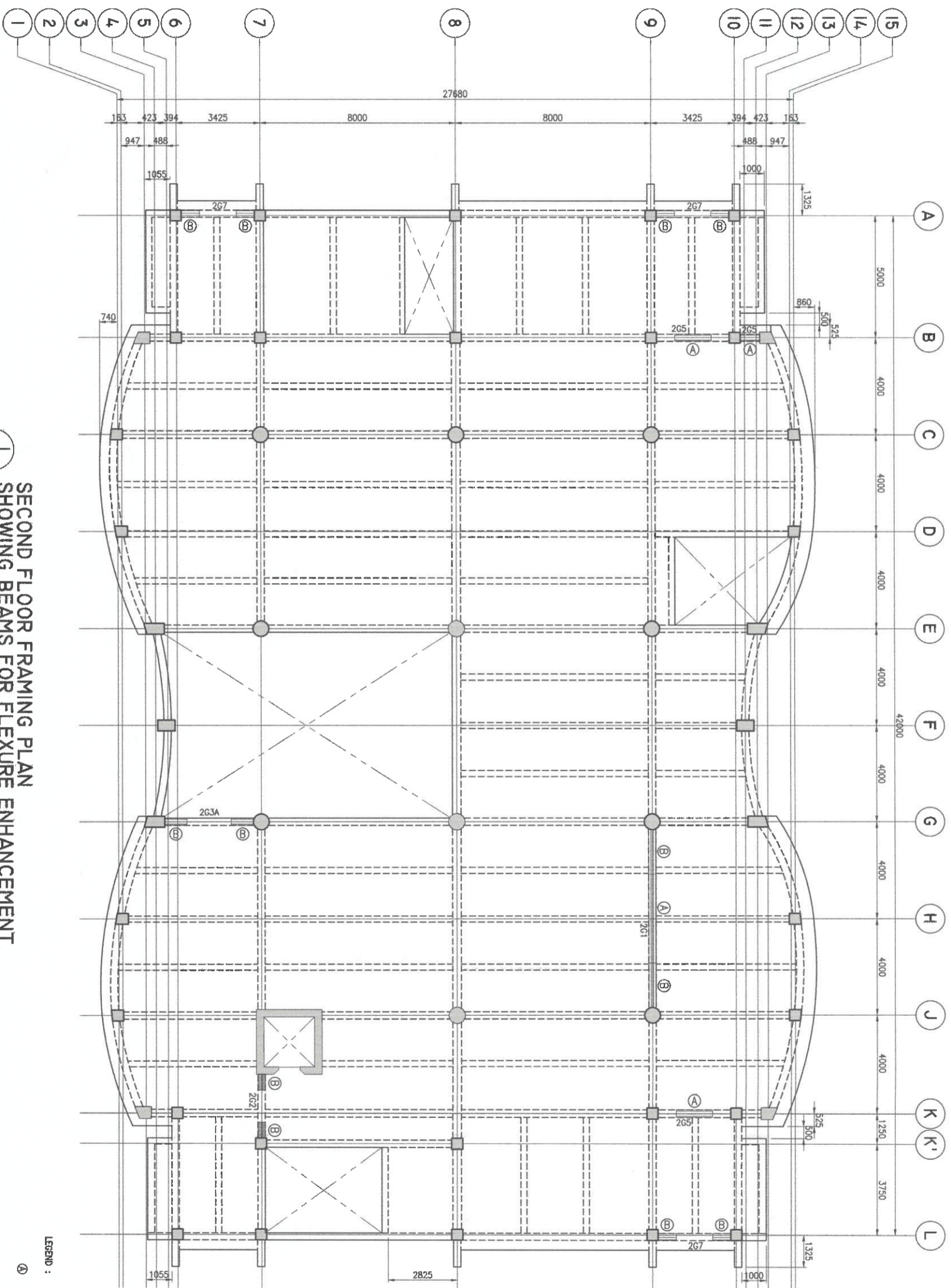
SHEET CONTENTS
 SUMMARY OF BEAMS AND GIRDERS RETROFITTING

REVISIONS

NO.	DATE	DESCRIPTION
0	JUNE 2020	AS SHOWN

DATE: JUNE 2020
 NO.: 0

PAPER SIZE: **20X30**
 SHEET NO.: **S-002**
 PROJECT NO.: **SO-G-18-018**



BEAM SCHEDULE			
261	300X700		
262	300X700		
263A	300X600		
265	300X600		
267	300X600		


**SECOND FLOOR FRAMING PLAN
SHOWING BEAMS FOR FLEXURE ENHANCEMENT**

SCALE: 1:100M

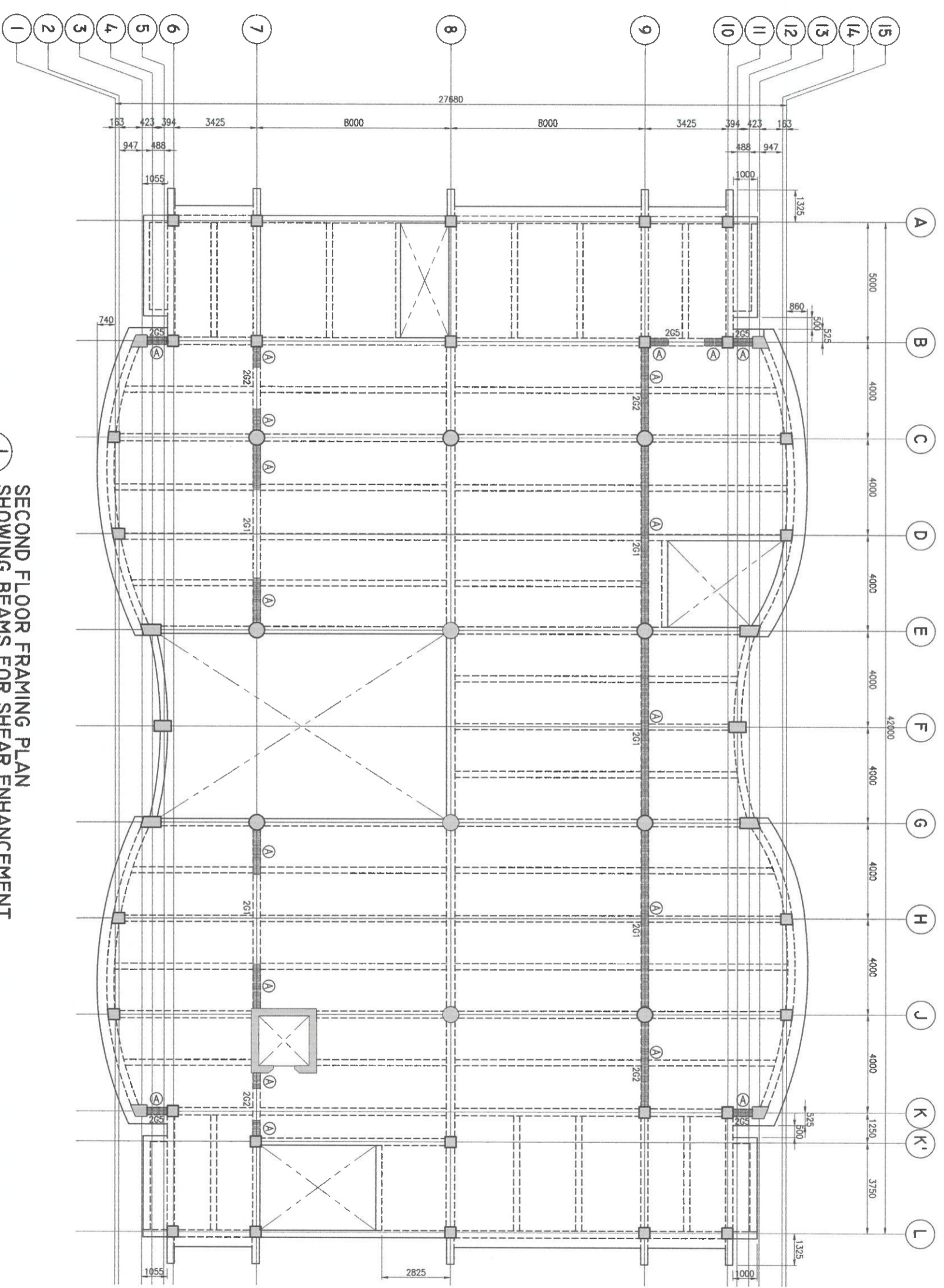
LEGEND :

① - 1 LAYER, 300MM WIDTH, SIKA WRAP 600C ● BOTTOM

② - 1 LAYER, 300MM WIDTH, SIKA WRAP 600C ● TOP

CERTIFIED BY:  MAE KAREN B. MANAO ENGINEER	REG. NO.: 0108971 TIN NO.: 946-936-520-000 PTR NO.: 6172818 DATE: JANUARY 06, 2020 PLACE: MANILA CITY	OWNER: SOCIAL SECURITY SYSTEM (SSS) EAST AVENUE, DULAKE, QUEZON CITY	CLIENT: Approved By:	PROJECT TITLE/LOCATION: PROPOSED STRUCTURAL RETROFITTING OF SSS CEBU BUILDING BHR, KALUSYAN, OSMEÑA BLVD., CEBU CITY	SHEET CONTENTS: SECOND FLOOR FRAMING PLAN SHOWING BEAMS FOR FLEXURE ENHANCEMENT	REMARKS: R.A. 9268 SEC. 33 AND CHARTER OF SSS. THE ARCHITECT'S RESPONSIBILITY IS TO VERIFY THAT THE PROPOSED STRUCTURAL RETROFITTING MEETS THE REQUIREMENTS FOR SERVICE LIFE. THE ARCHITECT DOES NOT GUARANTEE THE STRUCTURE FOR WHICH THE PROPOSED STRUCTURAL RETROFITTING IS DESIGNED OR TO MAKE CORRECT USE OF THE SAME AND FOR OTHER PROBLEMS OR DAMAGES WHICH MAY OCCUR IN THE FUTURE. THE ARCHITECT IS NOT RESPONSIBLE FOR THE DESIGN OR CONSTRUCTION OF ANY OTHER PARTS OF THE BUILDING OR FOR THE FAILURE THEREOF.	<table border="1"> <tr> <th>DATE</th> <th>NO.</th> <th>REVISIONS</th> <th>CHK.</th> <th>DATE</th> <th>PAPER SIZE</th> <th>SHEET NO.</th> </tr> <tr> <td>JUNE 2020</td> <td></td> <td></td> <td></td> <td></td> <td>20X30</td> <td>S-004</td> </tr> <tr> <td>JUNE 2020</td> <td></td> <td></td> <td></td> <td></td> <td>SCALE</td> <td>PROJECT NO.</td> </tr> <tr> <td>JUNE 2020</td> <td>0</td> <td></td> <td></td> <td></td> <td>AS SHOWN</td> <td>SO-G-16-018</td> </tr> </table>	DATE	NO.	REVISIONS	CHK.	DATE	PAPER SIZE	SHEET NO.	JUNE 2020					20X30	S-004	JUNE 2020					SCALE	PROJECT NO.	JUNE 2020	0				AS SHOWN	SO-G-16-018
DATE	NO.	REVISIONS	CHK.	DATE	PAPER SIZE	SHEET NO.																													
JUNE 2020					20X30	S-004																													
JUNE 2020					SCALE	PROJECT NO.																													
JUNE 2020	0				AS SHOWN	SO-G-16-018																													

RETROFITTING



**SECOND FLOOR FRAMING PLAN
SHOWING BEAMS FOR SHEAR ENHANCEMENT**

SCALE: 1:100M

BEAM SCHEDULE	
ZG1	300X700
ZG2	300X700
ZG5	300X600

LEGEND :
 A - 1 LAYER U WRAP OF SIKAWRAP 300C

RETROFITTING

ACORNG CONSULTING INC.
 Engineering + Managemnt Certified
 ISO 9001:2015
 27 LTA Building, 118 First Street, Lungsod, Manila, 1200 Metro Manila, Philippines
 Tel. No. +63 2 8853277 Fax. No. +63 2 8853333
 Email: acorning@acorng.com Website: www.acorning.com

CERTIFIED BY: *[Signature]*
MAE KAREN B. MANGAO, ASEP
 ENGINEER

REG. NO.: 0108971
 TIN NO.: RA-9-95-520-000
 PIR NO.: 8122618
 DATE: JANUARY 08, 2020
 PLACE: MARYT CITY

OWNER: **SOCIAL SECURITY SYSTEM (SSS)**
 EAST AVENUE, TALAUN, QUEZON CITY

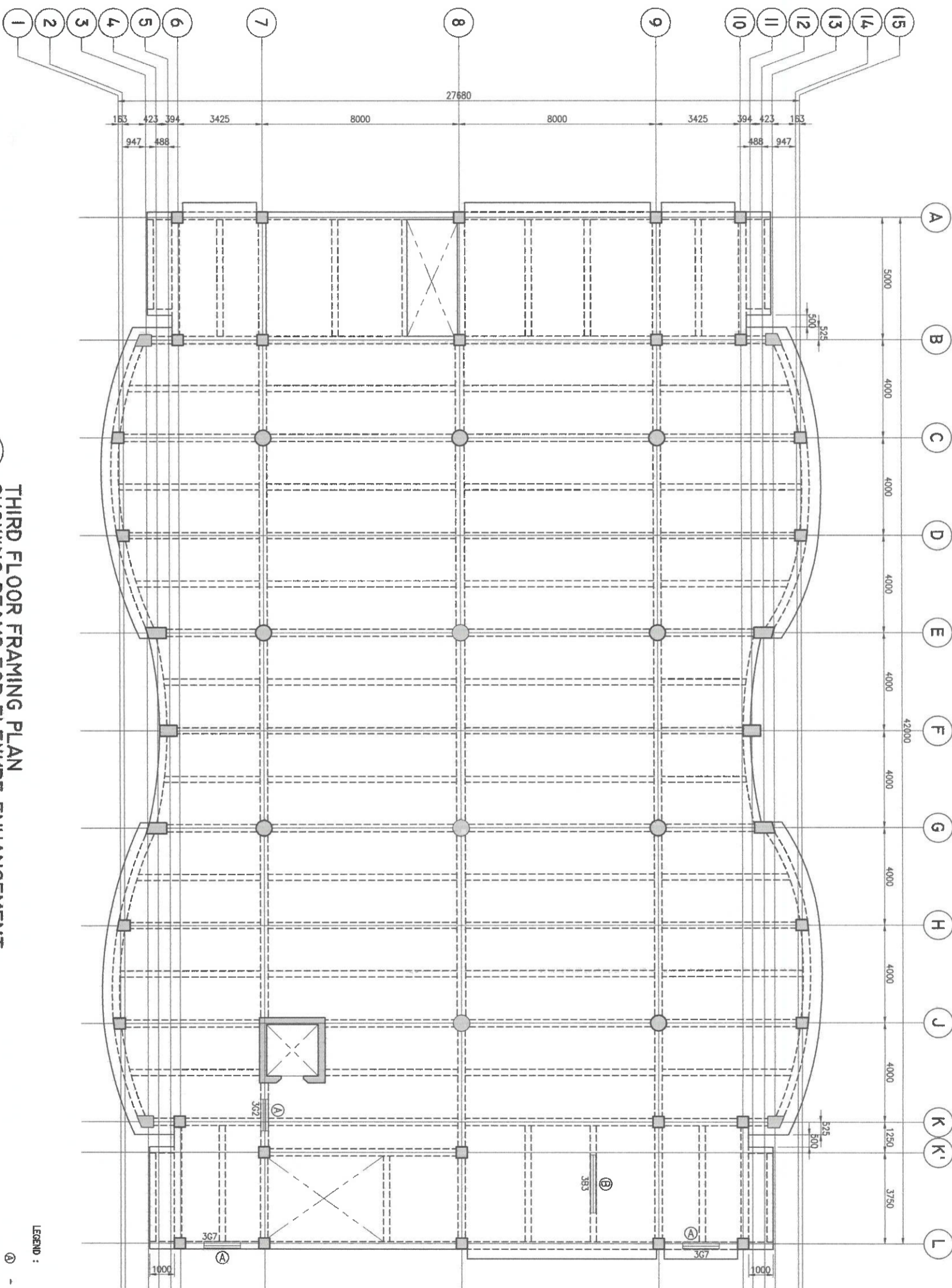
CLIENT APPROVED BY: _____

PROJECT TITLE/LOCATION: **PROPOSED STRUCTURAL RETROFITTING OF SSS CEBU BUILDING**
 BRGY. KALIBRIHAN, OSANAN BLVD., CEBU CITY

SHEET CONTENTS: **SECOND FLOOR FRAMING PLAN SHOWING BEAMS FOR SHEAR ENHANCEMENT**

REMARKS AND SPECIFICATIONS AND CONTRACT AS INSTRUMENTS OF SERVICE AND THE ARCHITECTURAL PROPERTY AND OCCUPANTS OF THE BUILDING ARE TO BE PROTECTED. THE ENGINEER SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE RETROFITTING WORK. THE ENGINEER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING STRUCTURE AND OCCUPANTS OF THE BUILDING. THE ENGINEER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING STRUCTURE AND OCCUPANTS OF THE BUILDING.

CADD	APP	DATE	NO.	REVISIONS	CHK	DATE	PKER SIZE	SHEET NO.
ACD	APP	JUNE 2020	0				20X30	S-005
	JMBP	JUNE 2020					SCALE	PROJECT NO.
	APPROVED	DATE					AS SHOWN	SO-G-18-018



**THIRD FLOOR FRAMING PLAN
SHOWING BEAMS FOR FLEXURE ENHANCEMENT**
SCALE: 1:100M

BEAM SCHEDULE	
302	300X700
307	300X600
303	250X400

LEGEND :
 (A) - 1 LAYER, 300MM WIDTH, SIKA WRAP 600C @ BOTTOM
 (B) - 1 LAYER, 250MM WIDTH, SIKA WRAP 600C @ BOTTOM

RETROFITTING

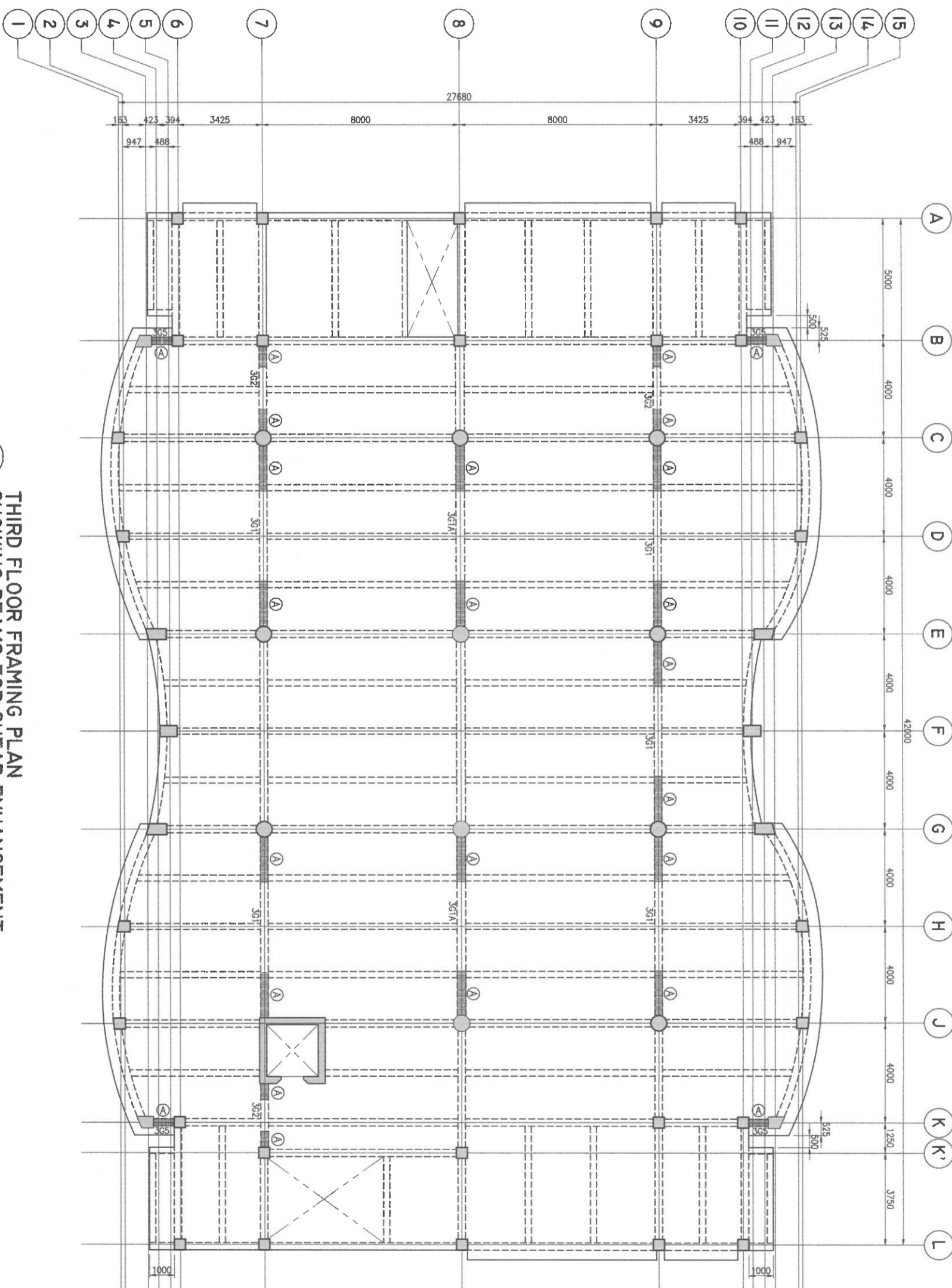
**Engineering + Management
ISO 9001:2015 Certified**

27 17A Building, 118 Ferns Drive, Lungsod, Valenzuela City, Philippines
 Tel. No. +63 2 85532777 Fax No. +63 2 8553277
 Email: info@acorninc.com.ph

CERTIFIED BY:

REGISTERED PROFESSIONAL ENGINEER
 MARRKVINCENTM.ACO, ASEP

REG. NO.: 0108971	OWNER: SOCIAL SECURITY SYSTEM (SSS)	CLIENT: APPROVED BY:	PROJECT TITLE/LOCATION: PROPOSED STRUCTURAL RETROFITTING OF SSS CEBU BUILDING
TIN NO.: 948-956-550-000	EST. ADDRESS: DILIMAN, QUEZON CITY	APPROVED BY:	BRANCH: KALIBRAN, CEBU CITY
PR. NO.: 8122618	DATE: JANUARY 08, 2020	PLACE: IWAMI CITY	SHEET CONTENTS: THIRD FLOOR FRAMING PLAN SHOWING BEAMS FOR FLEXURE ENHANCEMENT
DATE: JANUARY 08, 2020	DATE: JANUARY 08, 2020	DATE: JUNE 2020	DATE: JUNE 2020



**THIRD FLOOR FRAMING PLAN
SHOWING BEAMS FOR SHEAR ENHANCEMENT**
SCALE: 1:100M

RETROFITTING

LEGEND :
① - 1 LAYER, U WRAP OF SIKAWRAP 300C

BEAM SCHEDULE	
3S1	300X700
3G1A	300X700
3S2	300X700
3S5	300X600

CERTIFIED BY: *[Signature]*
NAME: **KAREN B. MANAYAO**
ENGINEER
REG. NO.: 01089371
TIN NO.: 948-98-520-000
FIR NO.: 8122618
DATE: JANUARY 08, 2020
PLACE: MANILA CITY

OWNER: **SOCIAL SECURITY SYSTEM (SSS)**
EAST AVENUE, OSMAN, QUEZON CITY

CLIENT: APPROVED BY: _____

PROJECT TITLE/LOCATION: **PROPOSED STRUCTURAL RETROFITTING OF SSS CEBU BUILDING**
BIGHI KALIBRAN, OSMAN BLDG., CEBU CITY

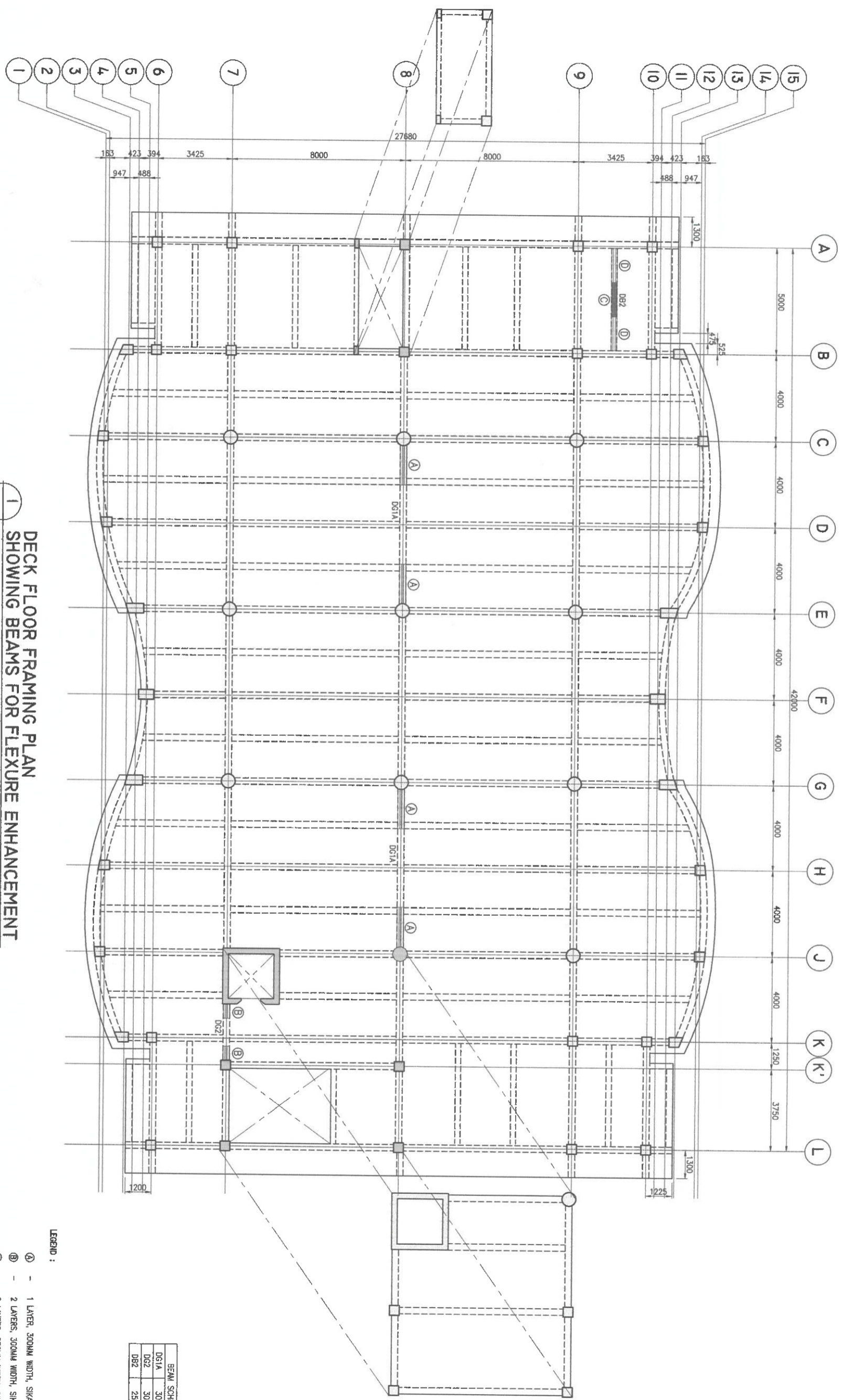
SHEET CONTENTS: **THIRD FLOOR FRAMING PLAN SHOWING BEAMS FOR SHEAR ENHANCEMENT**

REMARKS: P.L. 9286 SEC. 33
REPAIRING AND STRENGTHENING OF EXISTING STRUCTURE OF SSS BUILDING IN CEBU CITY. THE ARCHITECT HAS REVIEWED THE PROPOSED RETROFITTING PLAN AND HAS FOUND IT TO BE SATISFACTORY. THE ARCHITECT'S REVIEW IS LIMITED TO THE TECHNICAL ASPECTS OF THE PROPOSED RETROFITTING PLAN AND DOES NOT CONSTITUTE A GUARANTEE OF THE ACCURACY OF THE INFORMATION CONTAINED THEREIN. THE ARCHITECT'S REVIEW IS LIMITED TO THE TECHNICAL ASPECTS OF THE PROPOSED RETROFITTING PLAN AND DOES NOT CONSTITUTE A GUARANTEE OF THE ACCURACY OF THE INFORMATION CONTAINED THEREIN.

APP	DATE	NO.
AP	JUNE 2020	
AP	JUNE 2020	
AP	JUNE 2020	

CHK	DATE	NO.

PAPER SIZE: **20X30**
SCALE: _____
PROJECT NO.: **SO-G-18-018**



DECK FLOOR FRAMING PLAN
SHOWING BEAMS FOR FLEXURE ENHANCEMENT
 SCALE: 1:100M

BEAM SCHEDULE	
DG1A	300X700
DG2	300X700
DB2	250X400

- LEGEND :**
- ① - 1 LAYER, 300MM WIDTH, SIKA WRAP 600C @ TOP
 - ② - 2 LAYERS, 300MM WIDTH, SIKA WRAP 600C @ TOP
 - ③ - 2 LAYERS, 250MM WIDTH, SIKA WRAP 600C @ BOT.
 - ④ - 1 LAYER, 250MM WIDTH, SIKA WRAP 600C @ TOP

RETROFITTING

ACCONS CONSULTING INC.
 Engineering + Management
 ISO 9001:2015 Certified
 271M Building 11th Floor Street View: 1213 Market City, Philippines
 Email: info@accos.com.ph | Website: www.accons.com.ph

CERTIFIED BY: *[Signature]*
 ENGINEER: *[Signature]*
 REGISTERED PROFESSIONAL ENGINEER
 PRC REG. NO. 1222618
 DATE: JANUARY 06, 2020
 PLACE: MAKATI CITY

OWNER: **SOCIAL SECURITY SYSTEM (SSS)**
 601 AVENUE, DAVAO, QUEZON CITY

CLIENT APPROVED BY: *[Signature]*

PROJECT TITLE/LOCATION: **PROPOSED STRUCTURAL RETROFITTING OF SSS CEBU BUILDING**
 BRD, KALUBHAW, OSMEÑA BLVD., CEBU CITY

REG. NO.: 0108971
 TIN NO.: 949-556-550-000
 PIR NO.: 8122618
 DATE: JANUARY 06, 2020
 PLACE: MAKATI CITY

PROJECT TITLE/LOCATION: **DECK FLOOR FRAMING PLAN SHOWING BEAMS FOR FLEXURE ENHANCEMENT**

REVISIONS:

NO.	DATE	DESCRIPTION	APPROVED	DESIGNED
0	JUNE 2020		AP	JMB

DRAWINGS AND SPECIFICATIONS AND CONTRACT DOCUMENTS HAVE BEEN STUDIED AND FOUND TO BE COMPLETE, CORRECT AND ACCURATE. I HEREBY CERTIFY THAT THE DESIGN FOR WHICH I AM PROVIDING PROFESSIONAL SERVICES IS THE PROPERTY OF ACCONS CONSULTING INC. AND SHALL BE UNAVAILABLE FOR ANY PERSON TO REPRODUCE OR TRANSMIT IN ANY MANNER OR FOR ANY OTHER PROJECTS OR BUILDINGS WITHOUT THE WRITTEN CONSENT OF ACCONS CONSULTING INC. OR THE ARCHITECT OR AUTHOR OF SAID DOCUMENTS.

DATE: JUNE 2020
 NO.: 0

REVISIONS:

NO.	DATE	DESCRIPTION	CHK	DATE	PAPER SIZE	SHEET NO.
					20X30	S-008

PROJECT NO.: **SO-C-18-018**

