



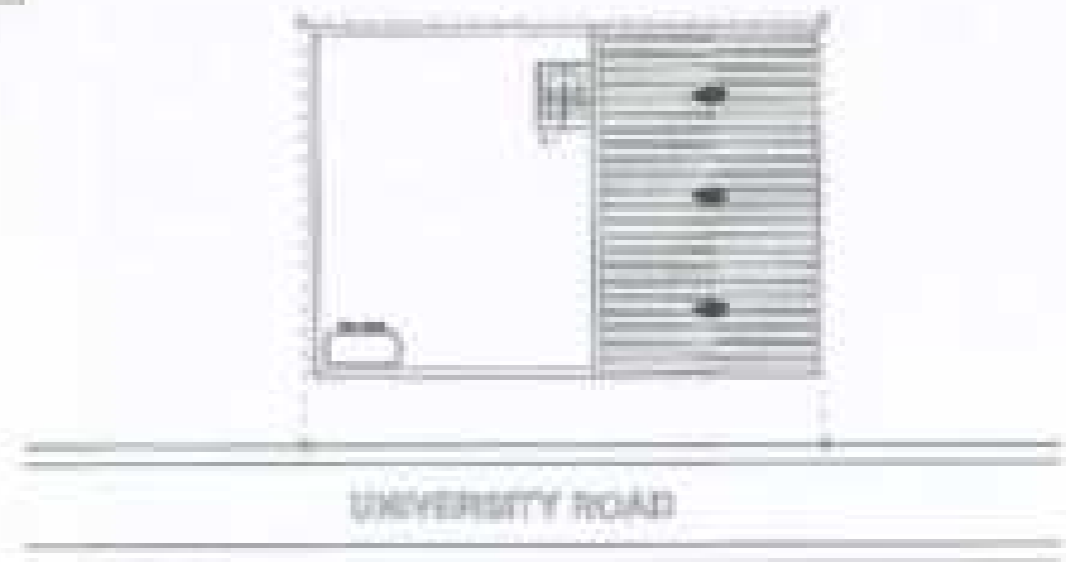
1 PERSPECTIVE
 1/8"=1'-0" HORIZ. SCALE
 1/8"=1'-0" VERT. SCALE






2 LOCATION PLAN
 1/8"=1'-0" SCALE



3 VICINITY MAP
 N.T.S.







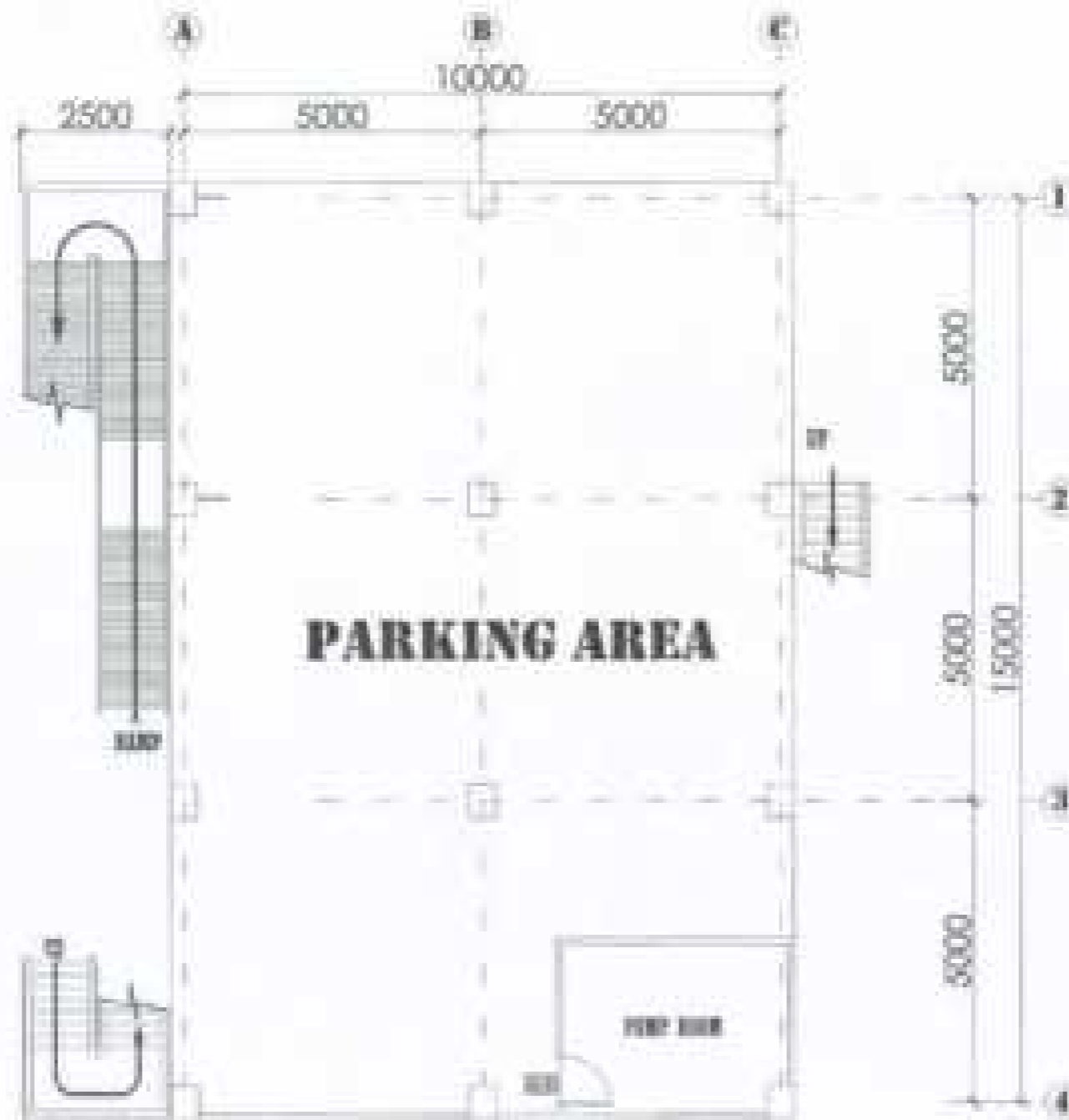
4 SITE DEVELOPMENT PLAN
 N.T.S.

OWNER: SERIKAN STATE UNIVERSITY OFFICE OF PHYSICAL PLANT AND FACILITIES	ARCHITECT: RAYMOND F. BAYAN REGISTERED ARCHITECT PRC No. 48179C PRC No. 48179A	ENGINEER:  REGISTERED CIVIL ENGINEER 	PROJECT TITLE: PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY SERIKAN STATE UNIVERSITY - BSU CAMPUS - SERIKAN, SARANGANI	CLIENT/USER: BSU GENED	PROJECT NO. CSO OPERATED SCALE: SHEET NO.: DATE:	
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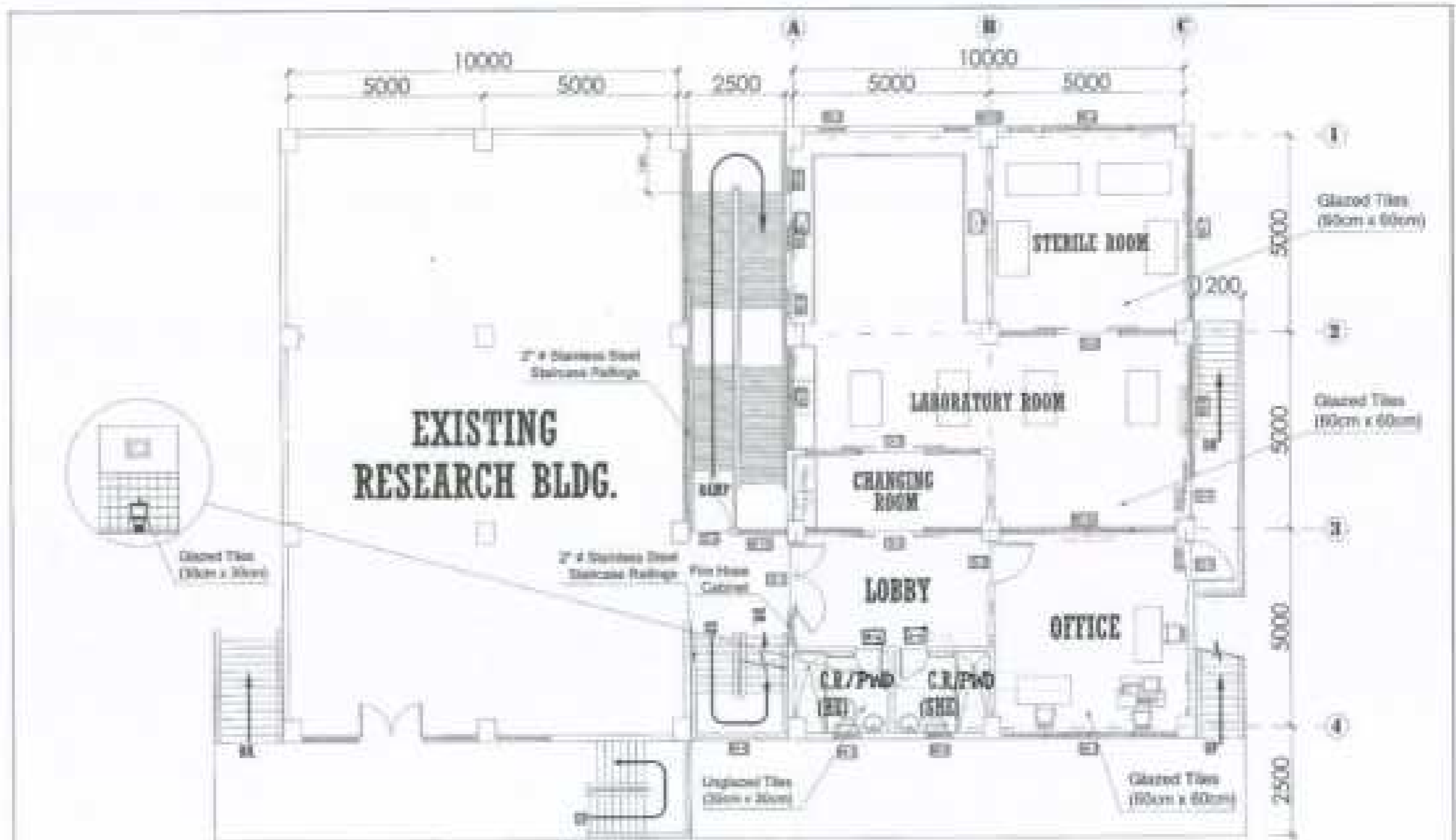
1 PERSPECTIVE
 SCALE: NOT SHOWN

ISSUED BY:	DATE ISSUED:	ISSUED BY:	PROJECT TITLE:	DATE GROUP:	ISSUED BY:	ISSUE NO.
ARMENIAN STATE UNIVERSITY OFFICE OF PHYSICAL PLANT AND FACILITIES	 DAVITYAN F. FAKHRI ARCHITECTURAL & ENGINEERING COMPANY OFFICE: #10208 PHONE: 010-552-0000 SUITE: 600-0000 FAX: 010-552-0000	 ARCHITECT  ENGINEER	PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY <small>ARMENIAN STATE UNIVERSITY - 401 TAPAL, YEREGH, YEREGH, ARMENIA</small>	22 GROUP 22 GROUP	CAD OPERATOR: SCALE: SHEET NO.: DATE:	



I GROUND FLOOR PLAN
SCALE 1/100

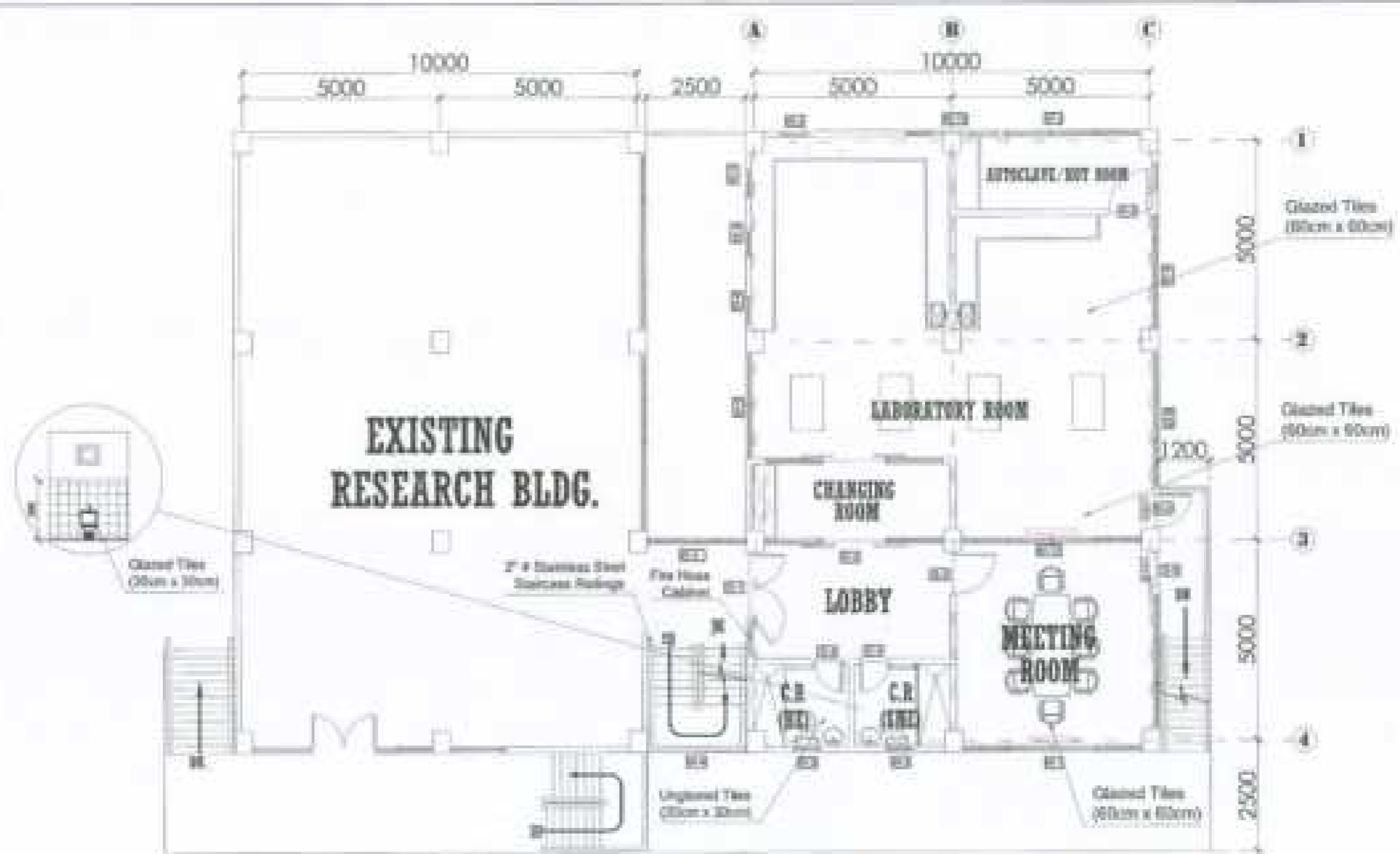
REVISION BY	DATE	DESIGN BY	PROJECT TITLE	PROJECT NUMBER	REVISION BY	REVISION DATE
SHRIJAN THAKUR UNIVERSITY			PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY	BT-000000	CLASS OPERATOR	
OFFICE OF PHYSICAL PLANT AND FACILITIES					SCALE	A-2
			NO. OF			
			DATE			



**EXISTING
RESEARCH BLDG.**

1 SECOND FLOOR PLAN
SCALE 1/100

DRAWN BY: BERNARD LEECH UNIVERSITY OFFICE OF PHYSICAL PLANT AND FACILITIES	DATE: 08/08/08 RAYMOND F. FADDE PROJECT NO. 00046000000000000000 FROM: 800000 TO 800000 REV. 01/08/08	CHECKED BY: PROJECT NO. 0004600000000000000000 	NAME OF PROJECT: PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY CONTRACT NUMBER: 0004600000000000000000	DATE: 08/08/08 BY: 000000	PROJECT NO.: 0004600000000000000000 SHEET NO.: A-3 REV. NO.: 01/08/08	SHEET NO.: A-3
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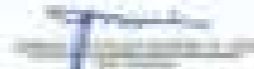


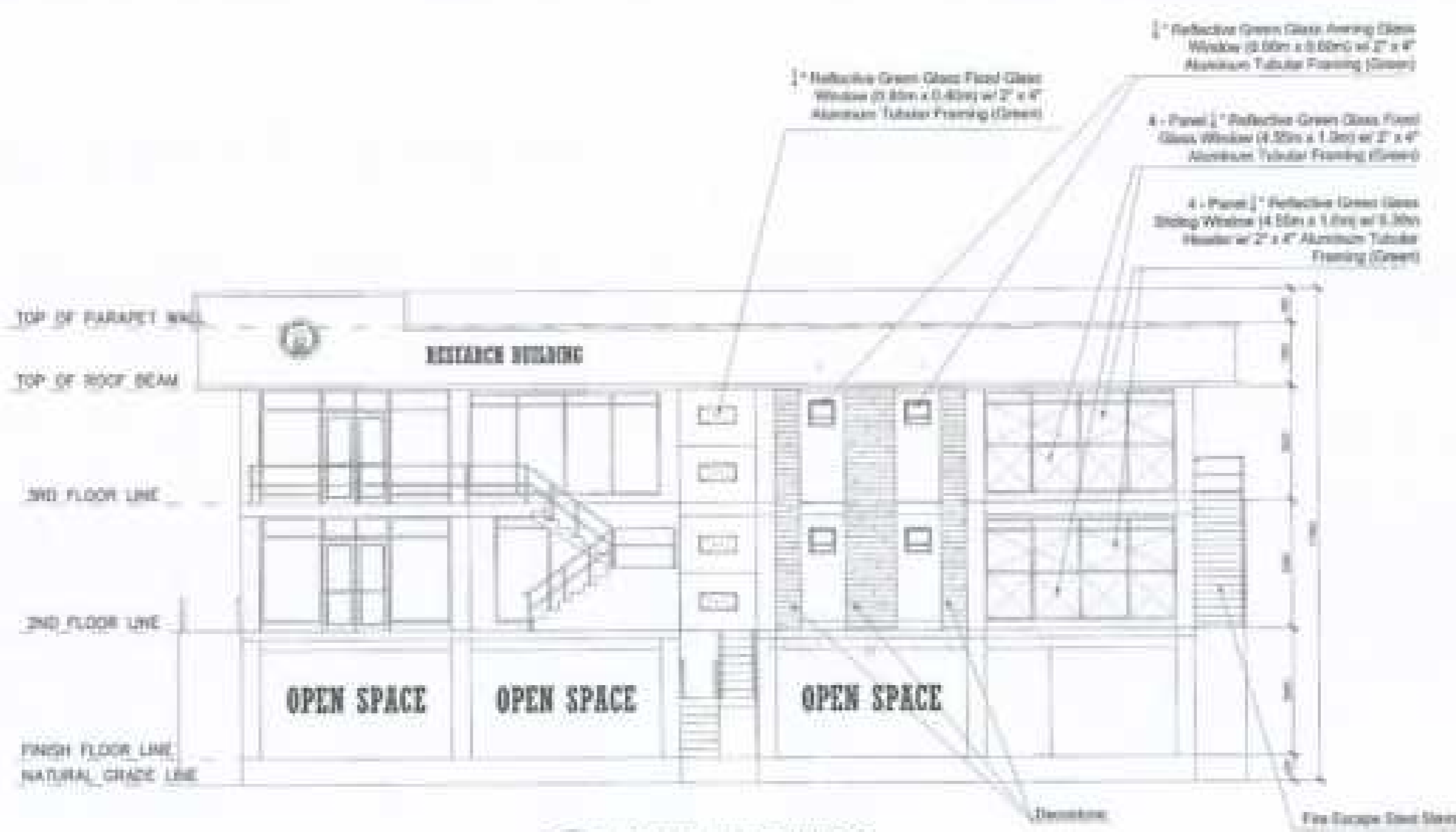
I THIRD FLOOR PLAN
 SCALE 1:100

PROJECT NO: BERGAM STATE UNIVERSITY OFFICE OF PHYSICAL PLANT AND FACILITIES	TITLE: RAYMOND F. FARR PROJECT NO. 00000000000000000000 DATE: 05/15/2010 DRAWN BY: 00000000000000000000	DRAWING NO.: 	PROJECT TITLE: PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY GENERAL CONTRACTOR: 00000000000000000000	ARCHITECT: AS GROUP	SHEET NO.: CS 00000000 SCALE: NO. OF: DATE:	SHEET NO.: A-4
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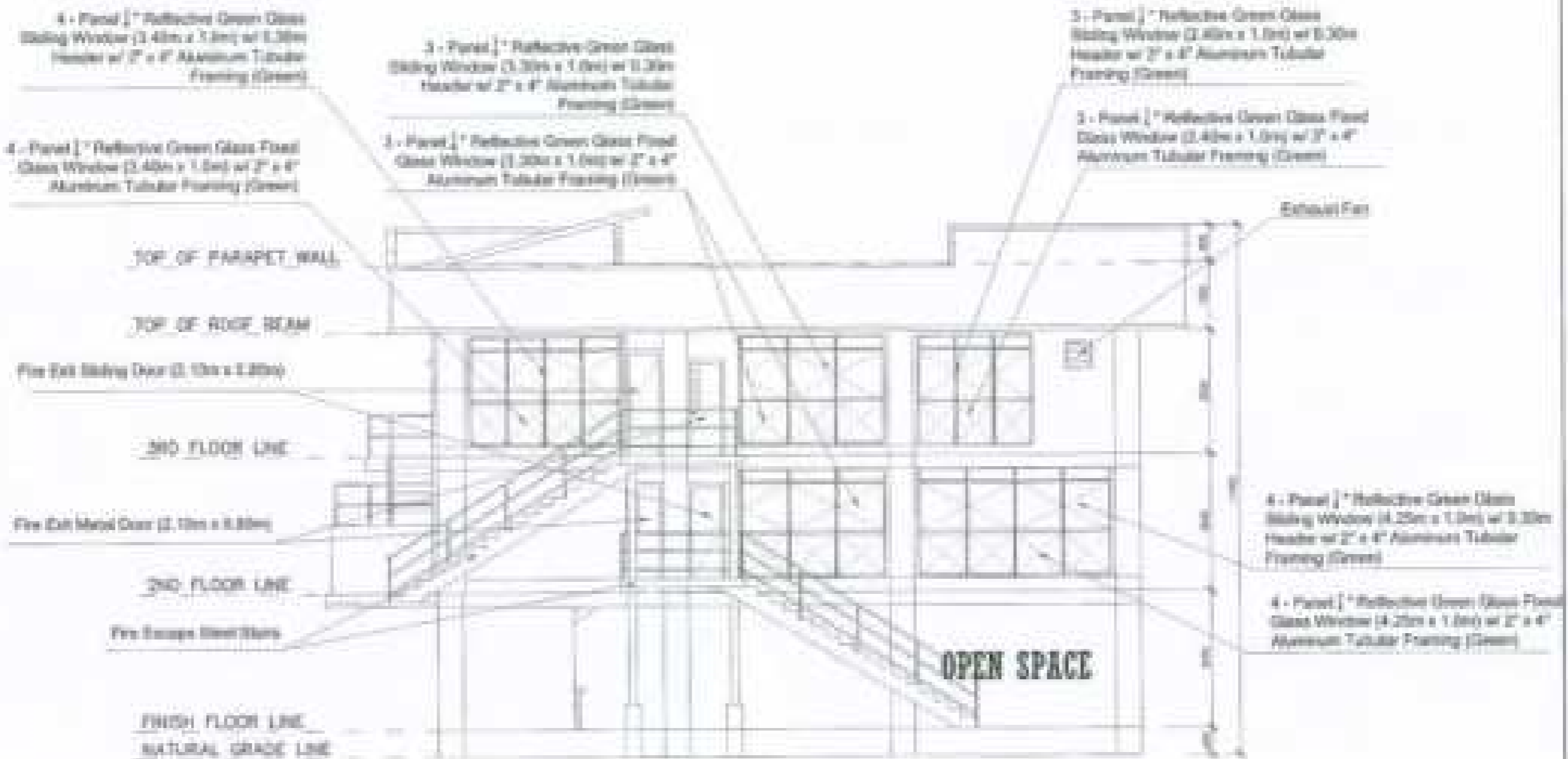
1 FRONT ELEVATION
 A-5-A SCALE 1/8" = 1'-0"

DESIGN BY BRUNNEN STATE UNIVERSITY OFFICE OF PHYSICAL PLANT AND FACILITIES	DESIGNED BY RAYMOND F. FADRI ARCHITECT 1000 N. 10TH ST. FREEHOLD, NJ 07728	DRAWN BY  PROJECT NO. 	PROJECT TITLE PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY BRUNNEN STATE UNIVERSITY - 1000 N. 10TH ST., FREEHOLD, NJ 07728	NEXT DESIGN AS SHOWN	PROJECT BY CEG OPERATING LLC JOB NO.: NITE:	SHEET NO. A-5
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1 REAR ELEVATION
 1/4" = 1'-0" SCALE

PROJECT NO: BERNARD STATE UNIVERSITY OFFICE OF PHYSICAL PLANT AND FACILITIES	DATE: 08/20/2014 ROYALTY F. FADU PROJECT NO. 2014-0002 TITLE: PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY	DRAWN BY: 	PROJECT TITLE: PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY OWNER: BERNARD STATE UNIVERSITY, 401 South College Street, York, PA 17403	ARCHITECT: KS GROUP	PROJECT NO: CS01047010 SHEET NO.: A-6 DATE:	SHEET NO.: A-6
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- Notes:**
- 1. Windows shall be constructed from steel or other solid to the design, but the maximum weight and resistance is concrete.
 - 2. This drawing is not valid if not in accordance with the approved plans, specifications, and contract documents.
 - 3. This drawing is not valid if not in accordance with the approved plans, specifications, and contract documents.
 - 4. The construction of windows shall be in accordance with the approved plans, specifications, and contract documents.

1 LEFT SIDE ELEVATION
 1/2" = 1'-0" SCALE

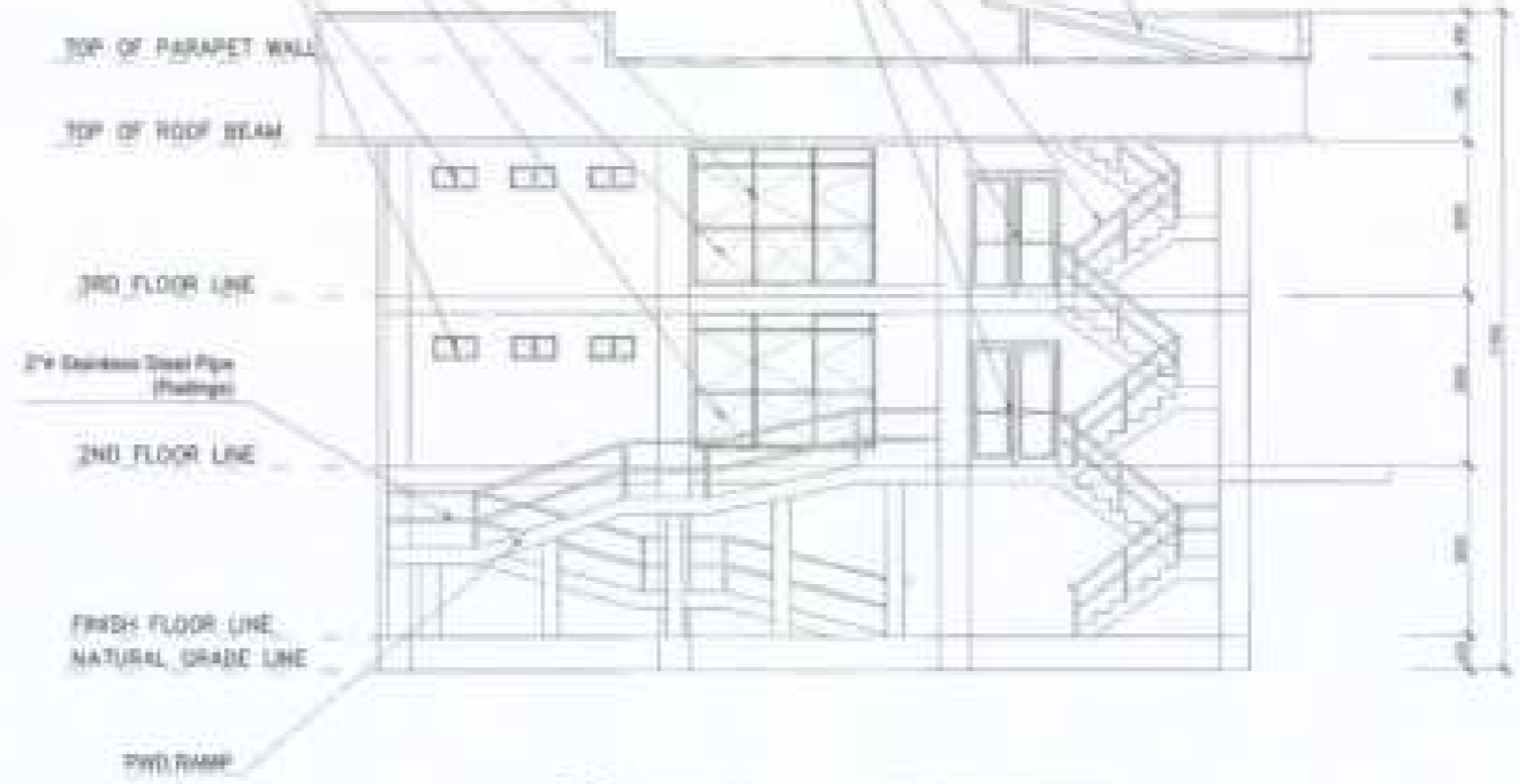
OWNER: SUNSHINE STATE UNIVERSITY	DESIGNER: RAYMOND F. FADDI ARCHITECTS, INC. 1000 N. UNIVERSITY BLVD. SUITE 200 TALLAHASSEE, FL 32310 TEL: 904/224-1100 FAX: 904/224-1101	DATE: JULY 2004	PROJECT: PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY	PROJECT NO.: 04-10000	DESIGN NO.: CED 050100	SECTION: A-7
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- 3 - Panel 1" Reflective Green Glass Sliding Window (2.0m x 1.0m) w/ 2" x 4" Aluminum Tubular Framing (Green)
- 3 - Panel 1" Reflective Green Glass Floor Glass Window (2.0m x 1.0m) w/ 2" x 4" Aluminum Tubular Framing (Green)
- 3 - Panel 1" Reflective Green Glass Sliding Window (2.0m x 1.0m) w/ 2" x 4" Aluminum Tubular Framing (Green)

2" x 4" Stainless Steel Pipe (Railing)

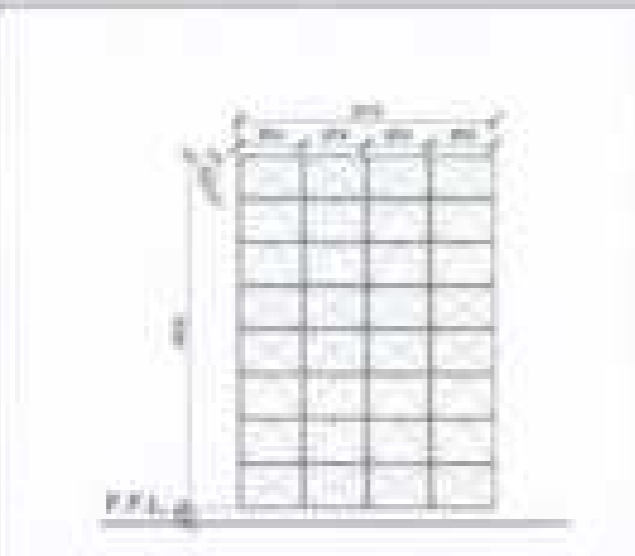




2-Panel Glass Door 1.80m x 2.10m

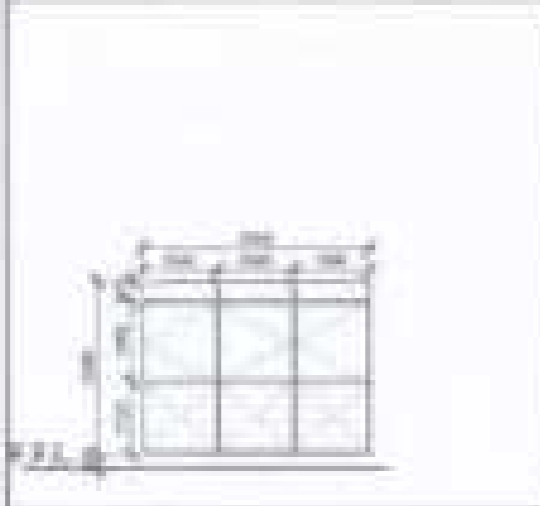
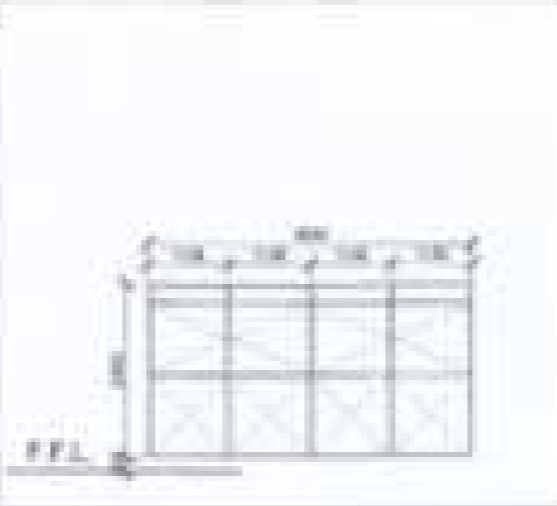



Gal. 26 Pre-Painted Roofing Sheet w/ Face Board Outer






1 RIGHT SIDE ELEVATION
SCALE: 1/8" = 1'-0"

DESIGN BY: BERNARD STATE UNIVERSITY OFFICE OF PHYSICAL PLANT AND FACILITIES	DESIGNED BY: RAYMOND F. ADRI PROJECT NO. 2010-0100 DATE: 08/20/10 DRAWN BY: [Signature]	CHECKED BY: PROJECT NO. 2010-0100 	PROJECT TITLE: PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY <small>UNIVERSITY OF BERNARD STATE UNIVERSITY - 1000 South College Street, Hargett Campus</small>	FIELD CHECKED BY: AL DUNN	DRAWN BY: CEB OPERATOR SCALE: SHEET NO.: DATE:	SHEET NO.: A-8
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NAME	1/2" Reflective Green Glass Fixed and Awning Type Window - w/ 2" x 4" Green Aluminum Tubular Framing (Concealed Framing) (W-1)	1/2" Reflective Green Glass Fixed and Sliding Type Window - w/ 2" x 4" Green Aluminum Tubular Framing (Concealed Framing) (W-2)	1/2" Reflective Green Awning Type Window - w/ 2" x 4" Green Aluminum Tubular Framing (Concealed Framing) (W-3)	1/2" Reflective Green Awning Type Window - w/ 2" x 4" Green Aluminum Tubular Framing (Concealed Framing) (W-4)	1/2" Reflective Green Glass Fixed and Sliding Type Window - w/ 2" x 4" Green Aluminum Tubular Framing (Concealed Framing) (W-5)

					
NAME	1/2" Reflective Green Glass Fixed and Sliding Type Window - w/ 2" x 4" Green Aluminum Tubular Framing (Concealed Framing) (W-6)	1/2" Reflective Green Glass Fixed and Sliding Type Window - w/ 2" x 4" Green Aluminum Tubular Framing (Concealed Framing) (W-7)	1/2" Reflective Green Glass Fixed and Sliding Type Window - w/ 2" x 4" Green Aluminum Tubular Framing (Concealed Framing) (W-8)	1/2" Reflective Green Glass Fixed Window - w/ 2" x 4" Green Aluminum Tubular Framing (Concealed Framing) (W-9)	1/2" Reflective Green Glass Fixed and Awning Type Window - w/ 2" x 4" Green Aluminum Tubular Framing (Concealed Framing) (W-10)



SCHEDULE OF DOORS AND WINDOWS
 SCALE: 1/8" = 1'-0"

DESIGNED BY: INDIAN STATE UNIVERSITY OFFICE OF PHYSICAL PLANT AND FACILITIES	DESIGNED BY:  RAYMOND F. ADR ARCHITECT 100 N. 100th St. Indian Harbor Beach, FL 32909	DRAWN BY:  ARCHITECT	PROJECT TITLE: PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY GENERAL CONTRACTOR: "INDIAN STATE UNIVERSITY" 100 North College Avenue, Tallahassee	PROJECT NUMBER: BL 20090	PREPARED BY: GAB WELBYNE ALLC 00000 00000	SHEET NO. A-9
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NAME:	2" Reflective Green Glass Fixed and Sliding Type Window w/ 2" x 4" Green Aluminum Tubular Framing (Concealed Framing) (W-1)	2" Reflective Green Glass Fixed Window w/ 2" x 4" Green Aluminum Tubular Framing (Concealed Framing) (W-2)	2" Reflective Green Glass Fixed and Sliding Type Window w/ 2" x 4" Green Aluminum Tubular Framing (Concealed Framing) (W-3)

NAME:	2 - Fixed 2" Sliding Reflective Green Glass Door w/ 2" x 4" Green Aluminum Tubular Framing (D-1)	2 - Fixed 2" Sliding Reflective Green Glass Door w/ 2" x 4" Green Aluminum Tubular Framing (D-2)	2 - Fixed 2" Sliding Reflective Green Glass Door w/ 2" x 4" Green Aluminum Tubular Framing (D-3)	Wooden Single Panel Door (D-4)	2 - Fixed 2" Sliding Reflective Green Glass Door w/ 2" x 4" Green Aluminum Tubular Framing (D-5)	Wooden Single Panel Door (D-6)


SCHEDULE OF DOORS AND WINDOWS
 SCALE: 1/8" = 1'-0"

DESIGN BY: BERNARD STREIB UNIVERSITY OFFICE OF PHYSICAL PLANT AND FACILITIES	DRG. NUMBER: RAYMOND F. FARRI PHYSICAL PLANT ARCHITECTURE 1111 S. UNIVERSITY AVENUE TAMPA, FLORIDA 33620	CHECKED BY:  DATE: 11/11/11	PROJECT TITLE: PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY ADDRESS: 1000 UNIVERSITY AVENUE, TAMPA, FLORIDA 33620	PRICE BASIS: SI CONVEY	DRAWN BY: CEB OPERATOR SCALE: SHEET NO.: SITE:	SHEET NO.: <div align="center" style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> A-10 </div>
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STRUCTURAL NOTES

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE SUDANESE STANDARDS AND CODES OF PRACTICE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE RELEVANT AUTHORITIES.
4. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND UTILITIES AT ALL TIMES.
5. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE ARCHITECT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND STRUCTURES ON THE SITE.
7. ALL WASTE MATERIALS SHALL BE PROPERLY DISPOSED OF AT THE END OF EACH WORKING DAY.
8. THE CONTRACTOR SHALL MAINTAIN A SAFE WORKING ENVIRONMENT AT ALL TIMES.
9. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INSURANCE COVERAGE.

FOUNDATION:

1. FOUNDATIONS SHALL BE CAST IN PLACE CONCRETE.
2. ALL FOUNDATIONS SHALL BE CAST ON A COMPACTED SAND BED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE RELEVANT AUTHORITIES.

CONCRETE:

1. ALL CONCRETE SHALL BE CAST IN PLACE.
2. ALL CONCRETE SHALL BE CAST AT A TEMPERATURE NOT EXCEEDING 30°C.
3. ALL CONCRETE SHALL BE CURED FOR A MINIMUM OF 7 DAYS.
4. ALL CONCRETE SHALL BE TESTED FOR STRENGTH AT REGULAR INTERVALS.

NO.	DESCRIPTION	QUANTITY	UNIT
1	CONCRETE	1000	M ³
2	REINFORCING STEEL	500	TONNES
3	FORMWORK	200	M ²
4	BRICKS	10000	NO.
5	CEMENT	500	TONNES
6	SAND	1000	M ³
7	GRAVEL	1000	M ³
8	AGGREGATE	1000	M ³
9	ROOFING	100	M ²
10	PAINT	100	LITRES

1. ALL CONCRETE SHALL BE CAST IN PLACE.
2. ALL CONCRETE SHALL BE CAST AT A TEMPERATURE NOT EXCEEDING 30°C.
3. ALL CONCRETE SHALL BE CURED FOR A MINIMUM OF 7 DAYS.
4. ALL CONCRETE SHALL BE TESTED FOR STRENGTH AT REGULAR INTERVALS.
5. ALL CONCRETE SHALL BE PROTECTED FROM DAMAGE DURING TRANSPORT AND STORAGE.
6. ALL CONCRETE SHALL BE PROTECTED FROM DAMAGE DURING HANDLING AND PLACING.
7. ALL CONCRETE SHALL BE PROTECTED FROM DAMAGE DURING CURING.
8. ALL CONCRETE SHALL BE PROTECTED FROM DAMAGE DURING DEMOLITION.
9. ALL CONCRETE SHALL BE PROTECTED FROM DAMAGE DURING REPAIRS.
10. ALL CONCRETE SHALL BE PROTECTED FROM DAMAGE DURING MAINTENANCE.

NO.	DESCRIPTION	QUANTITY	UNIT
1	CONCRETE	1000	M ³
2	REINFORCING STEEL	500	TONNES
3	FORMWORK	200	M ²
4	BRICKS	10000	NO.
5	CEMENT	500	TONNES
6	SAND	1000	M ³
7	GRAVEL	1000	M ³
8	AGGREGATE	1000	M ³
9	ROOFING	100	M ²
10	PAINT	100	LITRES

1. ALL CONCRETE SHALL BE CAST IN PLACE.
2. ALL CONCRETE SHALL BE CAST AT A TEMPERATURE NOT EXCEEDING 30°C.
3. ALL CONCRETE SHALL BE CURED FOR A MINIMUM OF 7 DAYS.
4. ALL CONCRETE SHALL BE TESTED FOR STRENGTH AT REGULAR INTERVALS.
5. ALL CONCRETE SHALL BE PROTECTED FROM DAMAGE DURING TRANSPORT AND STORAGE.
6. ALL CONCRETE SHALL BE PROTECTED FROM DAMAGE DURING HANDLING AND PLACING.
7. ALL CONCRETE SHALL BE PROTECTED FROM DAMAGE DURING CURING.
8. ALL CONCRETE SHALL BE PROTECTED FROM DAMAGE DURING DEMOLITION.
9. ALL CONCRETE SHALL BE PROTECTED FROM DAMAGE DURING REPAIRS.
10. ALL CONCRETE SHALL BE PROTECTED FROM DAMAGE DURING MAINTENANCE.

REINFORCING STEEL WORK:

1. ALL REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE SUDANESE STANDARDS AND CODES OF PRACTICE.
2. ALL REINFORCING STEEL SHALL BE TESTED FOR STRENGTH AT REGULAR INTERVALS.
3. ALL REINFORCING STEEL SHALL BE PROTECTED FROM CORROSION.
4. ALL REINFORCING STEEL SHALL BE PROTECTED FROM DAMAGE DURING TRANSPORT AND STORAGE.
5. ALL REINFORCING STEEL SHALL BE PROTECTED FROM DAMAGE DURING HANDLING AND PLACING.
6. ALL REINFORCING STEEL SHALL BE PROTECTED FROM DAMAGE DURING CURING.
7. ALL REINFORCING STEEL SHALL BE PROTECTED FROM DAMAGE DURING DEMOLITION.
8. ALL REINFORCING STEEL SHALL BE PROTECTED FROM DAMAGE DURING REPAIRS.
9. ALL REINFORCING STEEL SHALL BE PROTECTED FROM DAMAGE DURING MAINTENANCE.
10. ALL REINFORCING STEEL SHALL BE PROTECTED FROM DAMAGE DURING DISPOSAL.

COLUMNS:

1. ALL COLUMNS SHALL BE CAST IN PLACE CONCRETE.
2. ALL COLUMNS SHALL BE CAST ON A COMPACTED SAND BED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE RELEVANT AUTHORITIES.

BEAMS AND SLABS:

1. ALL BEAMS AND SLABS SHALL BE CAST IN PLACE CONCRETE.
2. ALL BEAMS AND SLABS SHALL BE CAST AT A TEMPERATURE NOT EXCEEDING 30°C.
3. ALL BEAMS AND SLABS SHALL BE CURED FOR A MINIMUM OF 7 DAYS.
4. ALL BEAMS AND SLABS SHALL BE TESTED FOR STRENGTH AT REGULAR INTERVALS.



1. ALL BEAMS AND SLABS SHALL BE CAST IN PLACE CONCRETE.
2. ALL BEAMS AND SLABS SHALL BE CAST AT A TEMPERATURE NOT EXCEEDING 30°C.
3. ALL BEAMS AND SLABS SHALL BE CURED FOR A MINIMUM OF 7 DAYS.
4. ALL BEAMS AND SLABS SHALL BE TESTED FOR STRENGTH AT REGULAR INTERVALS.
5. ALL BEAMS AND SLABS SHALL BE PROTECTED FROM DAMAGE DURING TRANSPORT AND STORAGE.
6. ALL BEAMS AND SLABS SHALL BE PROTECTED FROM DAMAGE DURING HANDLING AND PLACING.
7. ALL BEAMS AND SLABS SHALL BE PROTECTED FROM DAMAGE DURING CURING.
8. ALL BEAMS AND SLABS SHALL BE PROTECTED FROM DAMAGE DURING DEMOLITION.
9. ALL BEAMS AND SLABS SHALL BE PROTECTED FROM DAMAGE DURING REPAIRS.
10. ALL BEAMS AND SLABS SHALL BE PROTECTED FROM DAMAGE DURING MAINTENANCE.

CONCRETE SLAB:

1. ALL CONCRETE SLABS SHALL BE CAST IN PLACE.
2. ALL CONCRETE SLABS SHALL BE CAST AT A TEMPERATURE NOT EXCEEDING 30°C.
3. ALL CONCRETE SLABS SHALL BE CURED FOR A MINIMUM OF 7 DAYS.
4. ALL CONCRETE SLABS SHALL BE TESTED FOR STRENGTH AT REGULAR INTERVALS.

REINFORCED CONCRETE WALLS:

NO.	DESCRIPTION	QUANTITY	UNIT
1	CONCRETE	1000	M ³
2	REINFORCING STEEL	500	TONNES
3	FORMWORK	200	M ²
4	BRICKS	10000	NO.
5	CEMENT	500	TONNES
6	SAND	1000	M ³
7	GRAVEL	1000	M ³
8	AGGREGATE	1000	M ³
9	ROOFING	100	M ²
10	PAINT	100	LITRES

1. ALL REINFORCED CONCRETE WALLS SHALL BE CAST IN PLACE.
2. ALL REINFORCED CONCRETE WALLS SHALL BE CAST AT A TEMPERATURE NOT EXCEEDING 30°C.
3. ALL REINFORCED CONCRETE WALLS SHALL BE CURED FOR A MINIMUM OF 7 DAYS.
4. ALL REINFORCED CONCRETE WALLS SHALL BE TESTED FOR STRENGTH AT REGULAR INTERVALS.

REINFORCED BRICK WALLS:

1. ALL REINFORCED BRICK WALLS SHALL BE CAST IN PLACE.
2. ALL REINFORCED BRICK WALLS SHALL BE CAST AT A TEMPERATURE NOT EXCEEDING 30°C.
3. ALL REINFORCED BRICK WALLS SHALL BE CURED FOR A MINIMUM OF 7 DAYS.
4. ALL REINFORCED BRICK WALLS SHALL BE TESTED FOR STRENGTH AT REGULAR INTERVALS.

NO.	DESCRIPTION	QUANTITY	UNIT
1	CONCRETE	1000	M ³
2	REINFORCING STEEL	500	TONNES
3	FORMWORK	200	M ²
4	BRICKS	10000	NO.
5	CEMENT	500	TONNES
6	SAND	1000	M ³
7	GRAVEL	1000	M ³
8	AGGREGATE	1000	M ³
9	ROOFING	100	M ²
10	PAINT	100	LITRES

ROOFING AND FINISHES:

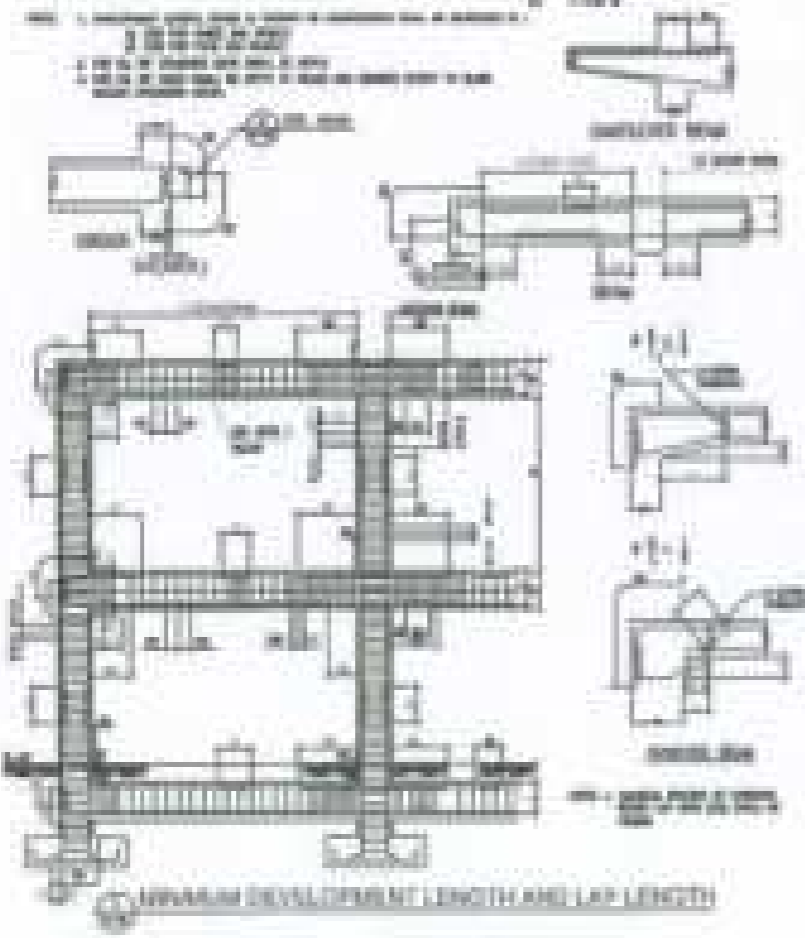
1. ALL ROOFING AND FINISHES SHALL BE CAST IN PLACE.
2. ALL ROOFING AND FINISHES SHALL BE CAST AT A TEMPERATURE NOT EXCEEDING 30°C.
3. ALL ROOFING AND FINISHES SHALL BE CURED FOR A MINIMUM OF 7 DAYS.
4. ALL ROOFING AND FINISHES SHALL BE TESTED FOR STRENGTH AT REGULAR INTERVALS.

NUMBER 11 GERMAN STATE UNIVERSITY OFFICE OF PHYSICAL PLANT AND FACILITIES	TITLE SHEET  RAYMOND F. FADI PROJECT MANAGER	DRAWN BY  CHECKED BY 	PROJECT TITLE PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY	SHEET NUMBER 11 OF 15	DESIGNER CAD INTERACTIVE LLC 100 N.	
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STRUCTURAL NOTES

<p>PLAN OF FLOOR</p> <p>1. ALL REINFORCING BARS SHALL BE 1/2" DIA. UNLESS OTHERWISE NOTED.</p> <p>2. ALL REINFORCING BARS SHALL BE EPOXY COATED UNLESS OTHERWISE NOTED.</p> <p>3. ALL REINFORCING BARS SHALL BE DEVELOPED AS SHOWN IN THE DETAILS.</p> <p>4. ALL REINFORCING BARS SHALL BE LAP SPICED AS SHOWN IN THE DETAILS.</p>	<p>PLAN OF FLOOR</p> <p>1. ALL REINFORCING BARS SHALL BE 1/2" DIA. UNLESS OTHERWISE NOTED.</p> <p>2. ALL REINFORCING BARS SHALL BE EPOXY COATED UNLESS OTHERWISE NOTED.</p> <p>3. ALL REINFORCING BARS SHALL BE DEVELOPED AS SHOWN IN THE DETAILS.</p> <p>4. ALL REINFORCING BARS SHALL BE LAP SPICED AS SHOWN IN THE DETAILS.</p>
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<p>PLAN OF FLOOR</p> <p>1. ALL REINFORCING BARS SHALL BE 1/2" DIA. UNLESS OTHERWISE NOTED.</p> <p>2. ALL REINFORCING BARS SHALL BE EPOXY COATED UNLESS OTHERWISE NOTED.</p> <p>3. ALL REINFORCING BARS SHALL BE DEVELOPED AS SHOWN IN THE DETAILS.</p> <p>4. ALL REINFORCING BARS SHALL BE LAP SPICED AS SHOWN IN THE DETAILS.</p>	<p>PLAN OF FLOOR</p> <p>1. ALL REINFORCING BARS SHALL BE 1/2" DIA. UNLESS OTHERWISE NOTED.</p> <p>2. ALL REINFORCING BARS SHALL BE EPOXY COATED UNLESS OTHERWISE NOTED.</p> <p>3. ALL REINFORCING BARS SHALL BE DEVELOPED AS SHOWN IN THE DETAILS.</p> <p>4. ALL REINFORCING BARS SHALL BE LAP SPICED AS SHOWN IN THE DETAILS.</p>
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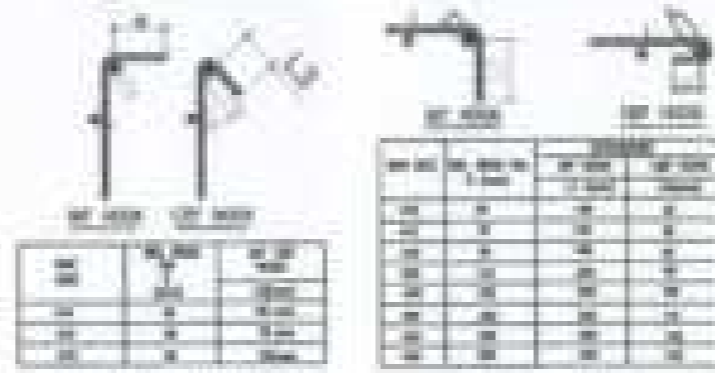
REINFORCEMENT DETAIL



MISCELLANEOUS REINFORCEMENT DETAIL

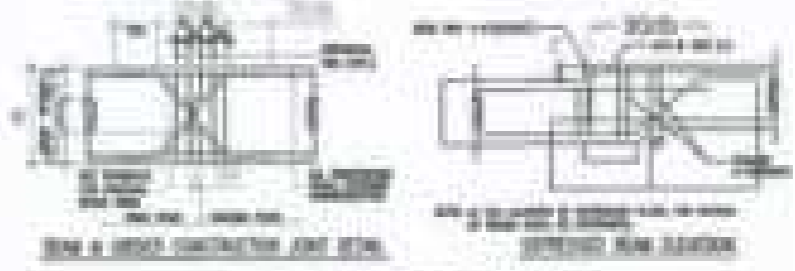
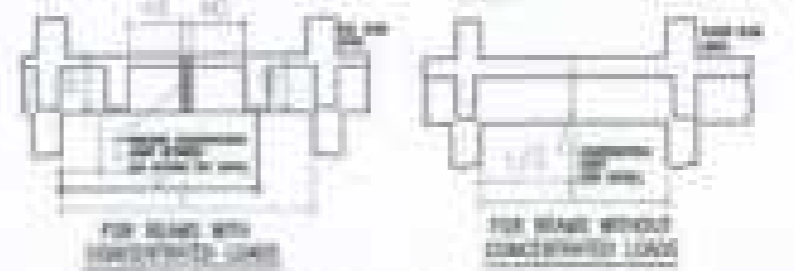


HOOKS & CROSS BEAM PLACEMENT DETAIL

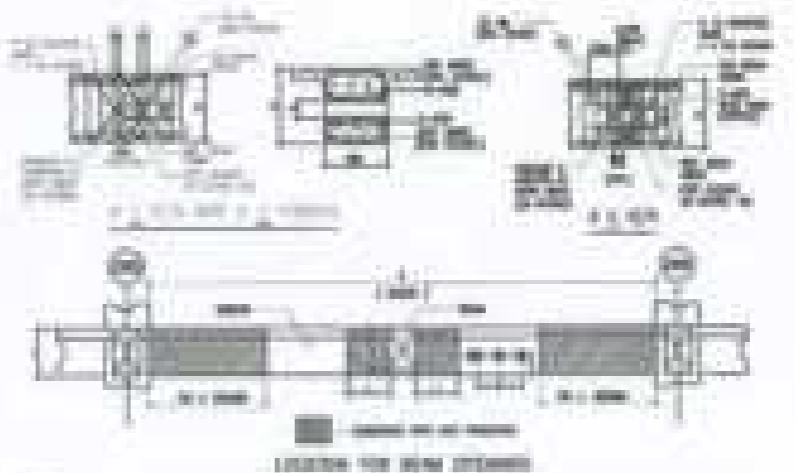


STANDARD HOOK & BEND

<p>REINFORCEMENT DETAIL</p> <p>1. ALL REINFORCING BARS SHALL BE 1/2" DIA. UNLESS OTHERWISE NOTED.</p> <p>2. ALL REINFORCING BARS SHALL BE EPOXY COATED UNLESS OTHERWISE NOTED.</p> <p>3. ALL REINFORCING BARS SHALL BE DEVELOPED AS SHOWN IN THE DETAILS.</p> <p>4. ALL REINFORCING BARS SHALL BE LAP SPICED AS SHOWN IN THE DETAILS.</p>	<p>REINFORCEMENT DETAIL</p> <p>1. ALL REINFORCING BARS SHALL BE 1/2" DIA. UNLESS OTHERWISE NOTED.</p> <p>2. ALL REINFORCING BARS SHALL BE EPOXY COATED UNLESS OTHERWISE NOTED.</p> <p>3. ALL REINFORCING BARS SHALL BE DEVELOPED AS SHOWN IN THE DETAILS.</p> <p>4. ALL REINFORCING BARS SHALL BE LAP SPICED AS SHOWN IN THE DETAILS.</p>
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MISCELLANEOUS REINFORCEMENT DETAIL



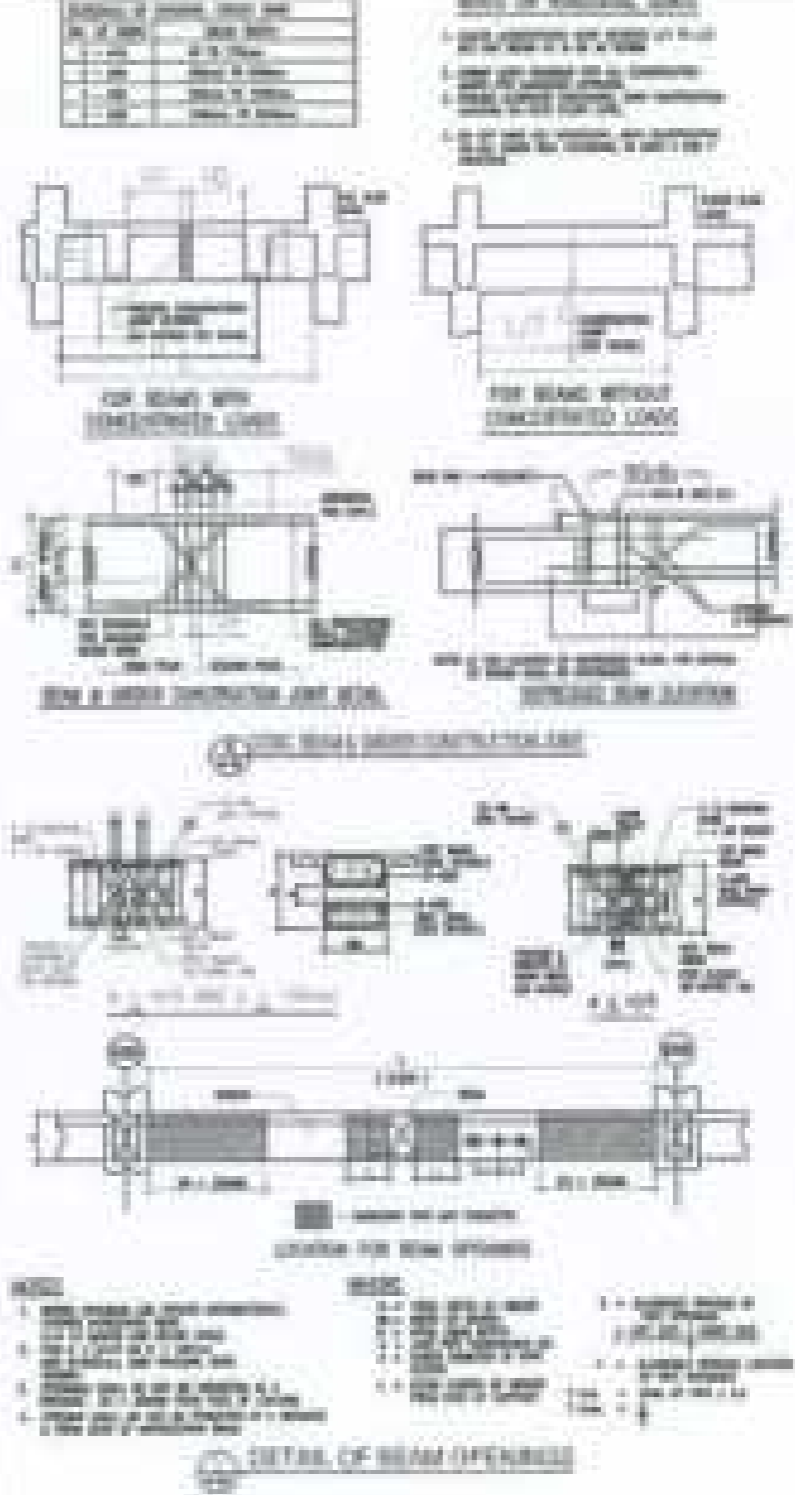
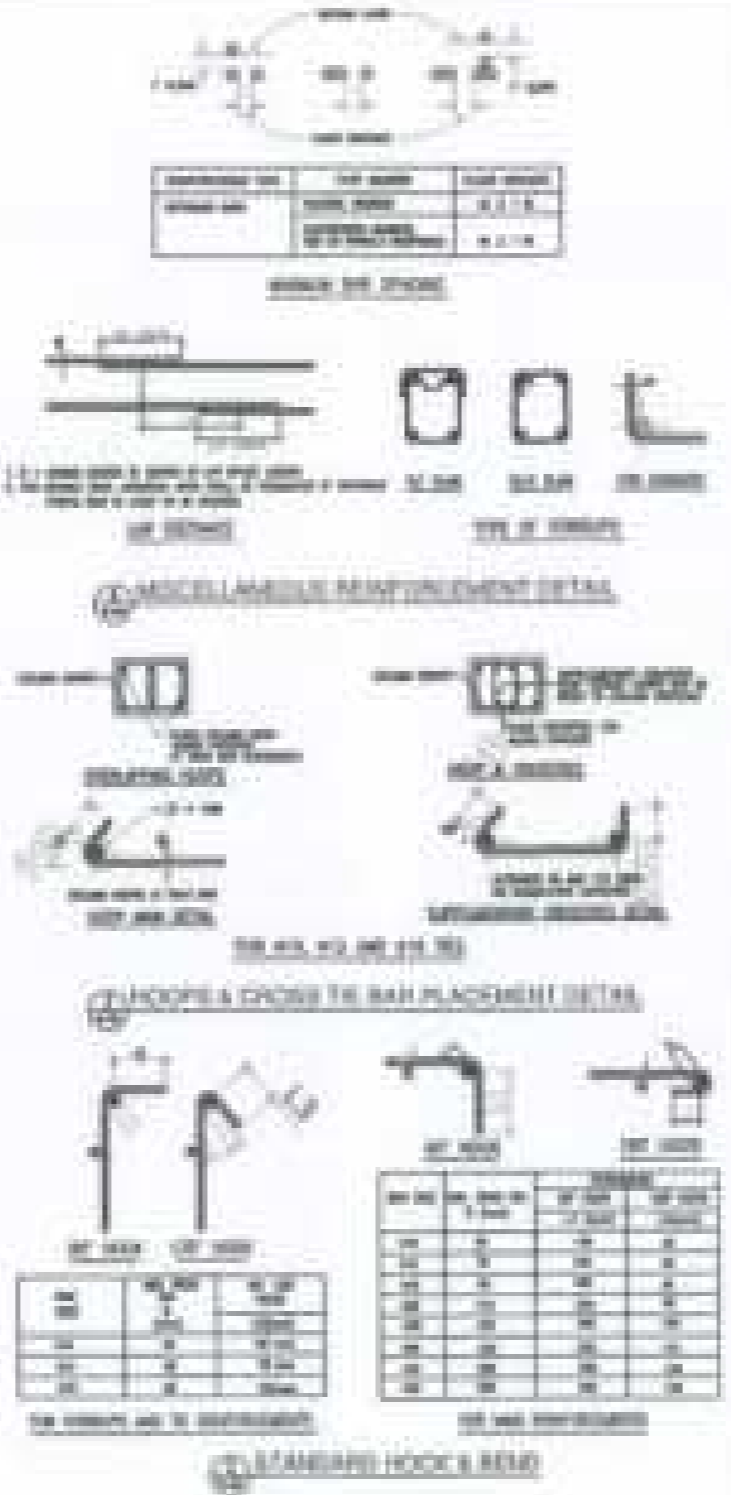
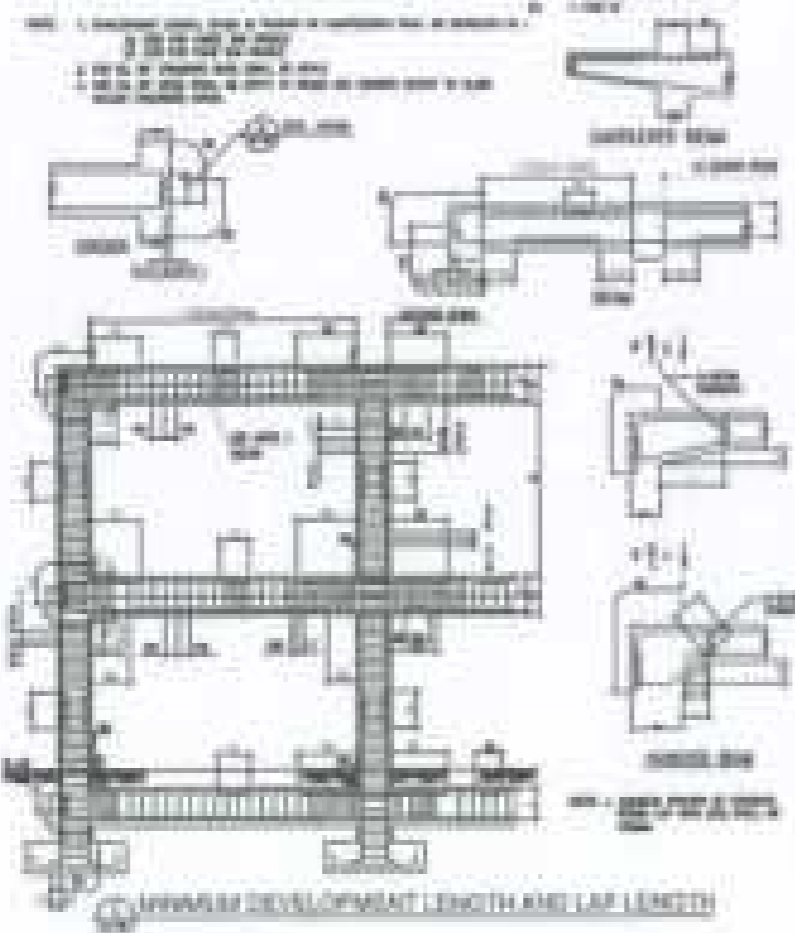
DETAIL OF BEAM OPENING

<p>ISSUED BY:</p> <p style="text-align: center;">BERNARD STATE UNIVERSITY</p> <p>OFFICE OF PHYSICAL PLANT AND FACILITIES</p>	<p>DESIGNED BY:</p> <p style="text-align: center;">RAYMOND F. FARR</p> <p>PHYSICAL PLANT DIVISION</p>	<p>APPROVED BY:</p> <p style="text-align: center;"><i>[Signature]</i></p>	<p>PROJECT TITLE:</p> <p style="text-align: center;">PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY</p> <p>PHYSICAL PLANT DIVISION</p>	<p>DATE:</p> <p style="text-align: center;">01/10/09</p>	<p>ISSUED BY:</p> <p style="text-align: center;">CEB OPERATOR</p> <p>DATE:</p>	<p>S-2</p>
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STRUCTURAL NOTES

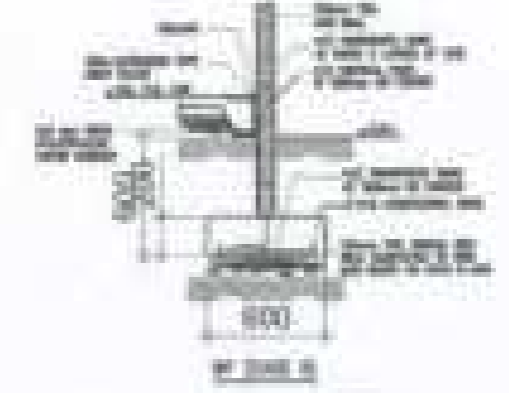
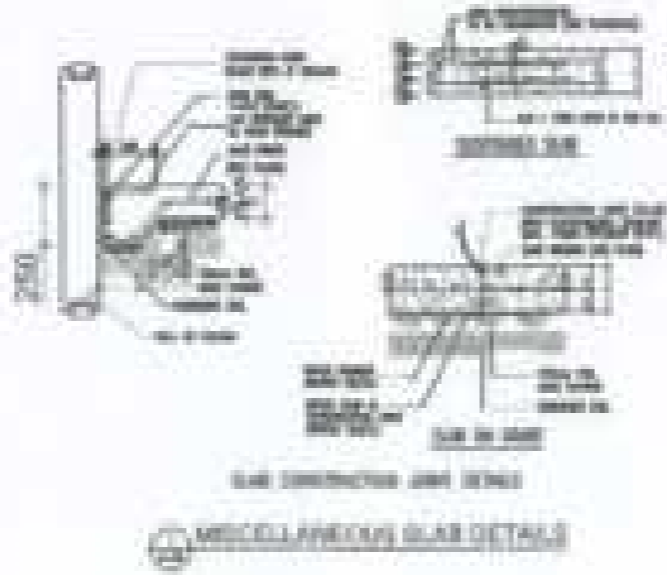
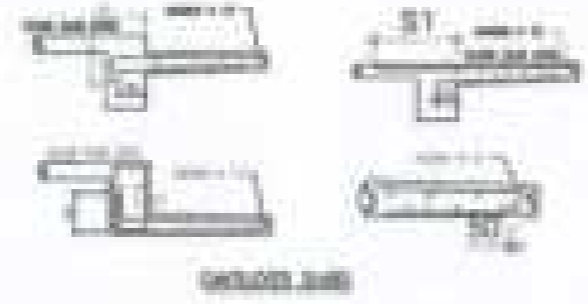
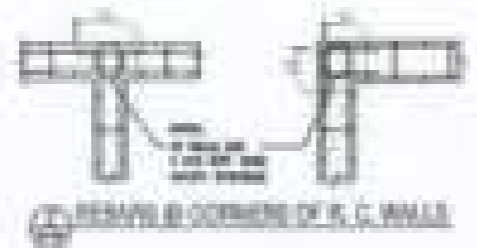
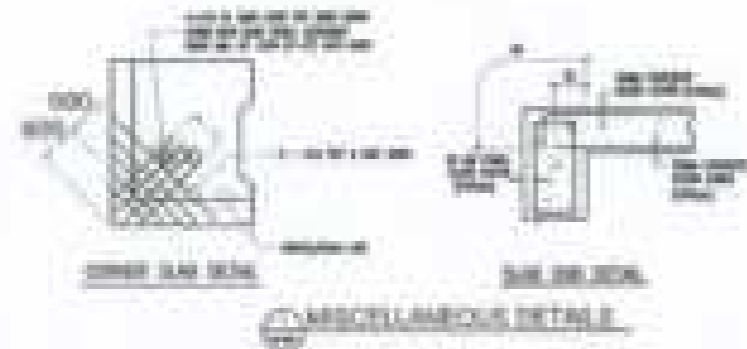
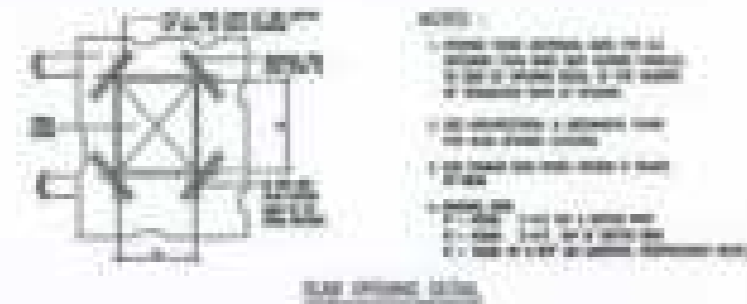
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20%;">NO.</td><td style="width: 20%;">TYPE</td><td style="width: 20%;">GRADE</td><td style="width: 20%;">SECTION</td><td style="width: 20%;">REMARKS</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	NO.	TYPE	GRADE	SECTION	REMARKS																					<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20%;">NO.</td><td style="width: 20%;">TYPE</td><td style="width: 20%;">GRADE</td><td style="width: 20%;">SECTION</td><td style="width: 20%;">REMARKS</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	NO.	TYPE	GRADE	SECTION	REMARKS																				
NO.	TYPE	GRADE	SECTION	REMARKS																																															
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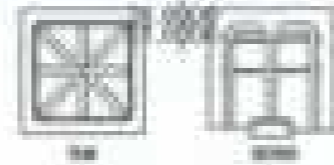
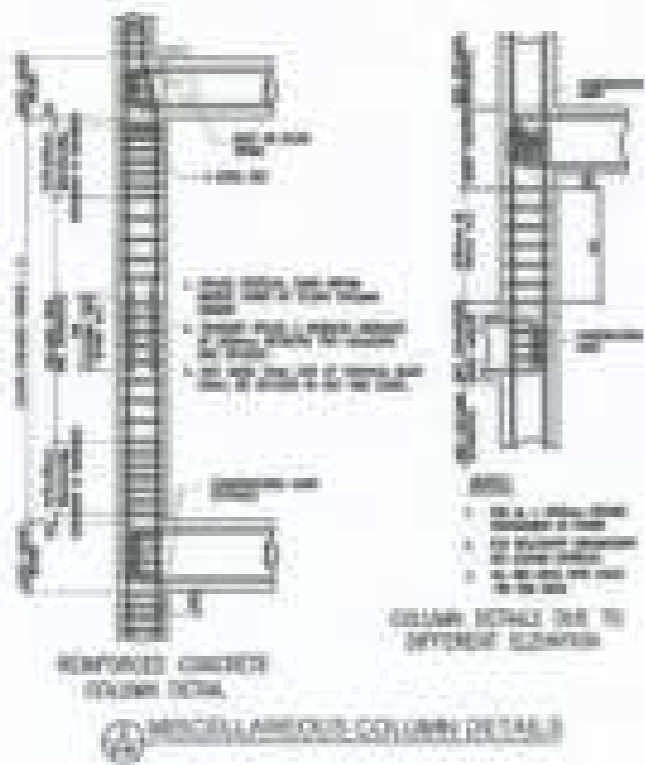
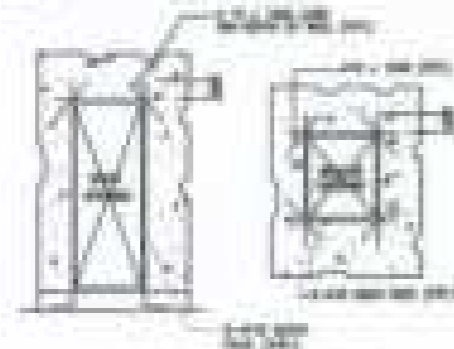
PROJECT NO. BERKALAN STATE UNIVERSITY	DR. NAME RYMARD F. FADIN	DESIGNER 	PROJECT TITLE PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY	DATE SUBMITTED 21-05-2024	REVIEWER CEB OPERATOR	SHEET NO. S-2
OFFICE OF PHYSICAL PLANNING AND FACILITIES		PROJECT NO. 12100000000000000000		DATE APPROVED 21-05-2024		SHEET NO.
PROJECT NO. 12100000000000000000		PROJECT TITLE		DATE SUBMITTED		

STRUCTURAL NOTES



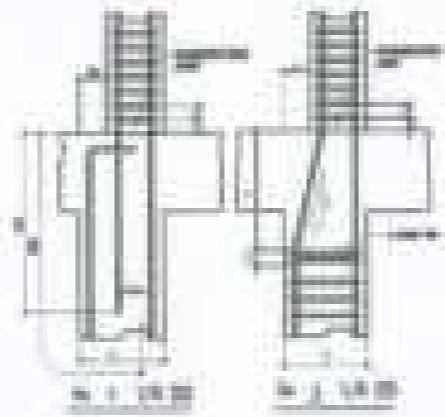
DESIGN BY: MINNAPARC UNIVERSITY OFFICE OF FACILITY PLANNING AND FACILITIES	DATE: 08/20/2024 DESIGNED BY: REYNOLD F. FARR CHECKED BY: JCHILLERME	DRAWN BY: DATE: 08/20/2024	PROJECT TITLE: PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY	SHEET NUMBER: 21 OF 20	DRAWN BY: CAD OPERATOR CHECKED BY: DATE:	SHEET NO.: S-3
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STRUCTURAL NOTES



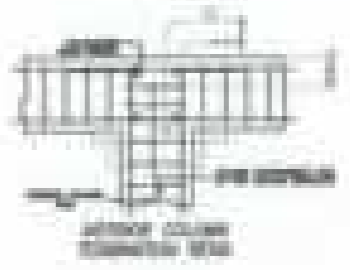
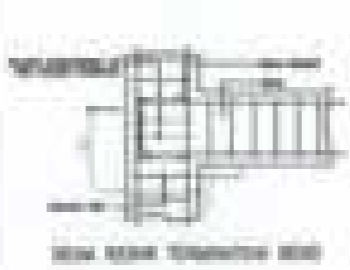
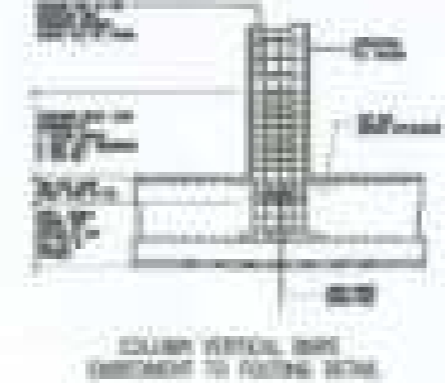
- REINFORCEMENT**
- 1. USE ONLY 20 MILD STEEL OF GRADE 60
 - 2. REINFORCEMENT SHALL BE PLACED AS SHOWN
 - 3. REINFORCEMENT SHALL BE PLACED AS SHOWN
 - 4. REINFORCEMENT SHALL BE PLACED AS SHOWN
 - 5. REINFORCEMENT SHALL BE PLACED AS SHOWN

BEAM- COLUMN JOINT REINFORCEMENT

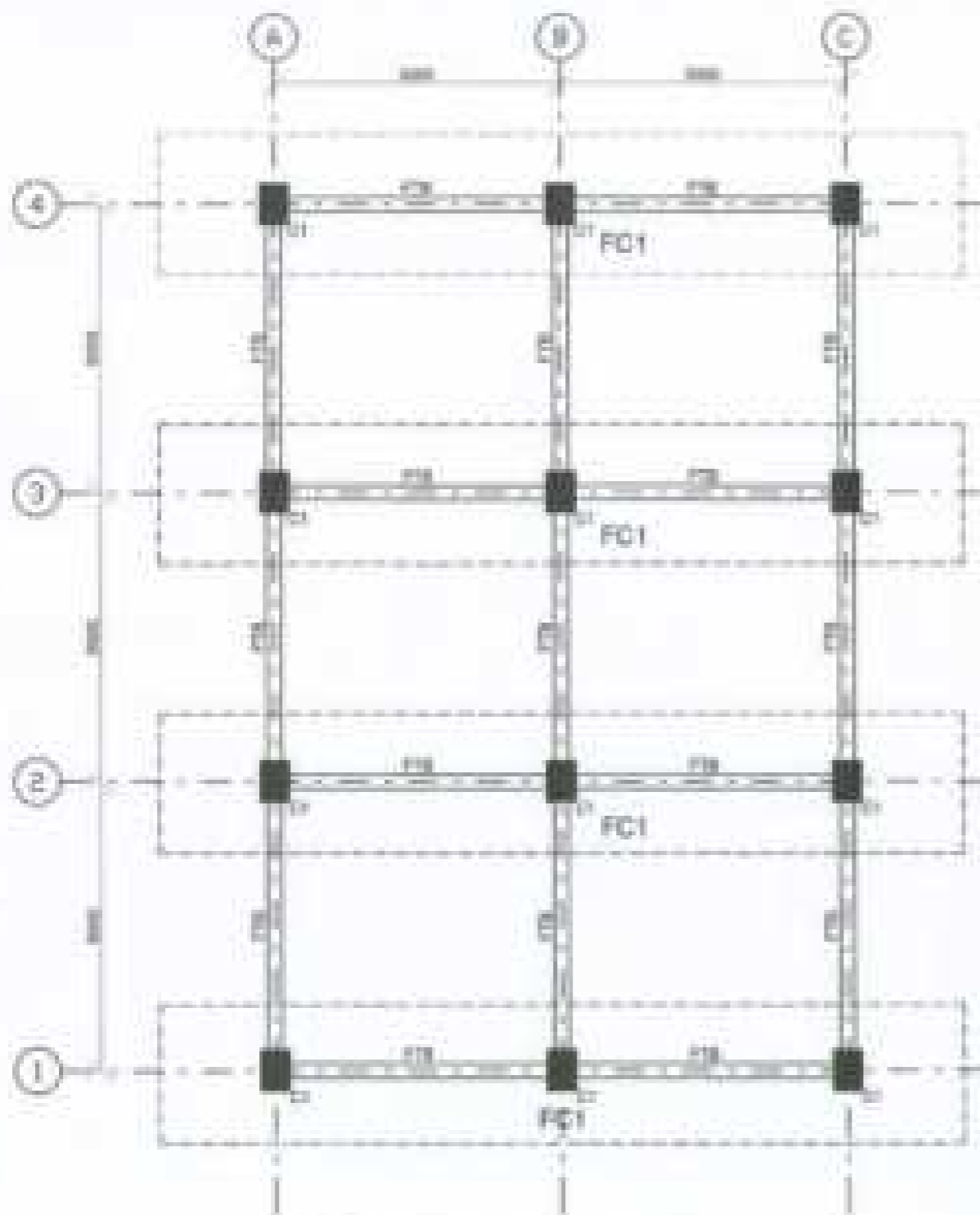


REINFORCEMENT OF COLUMN IN BEAM-COLUMN JOINT

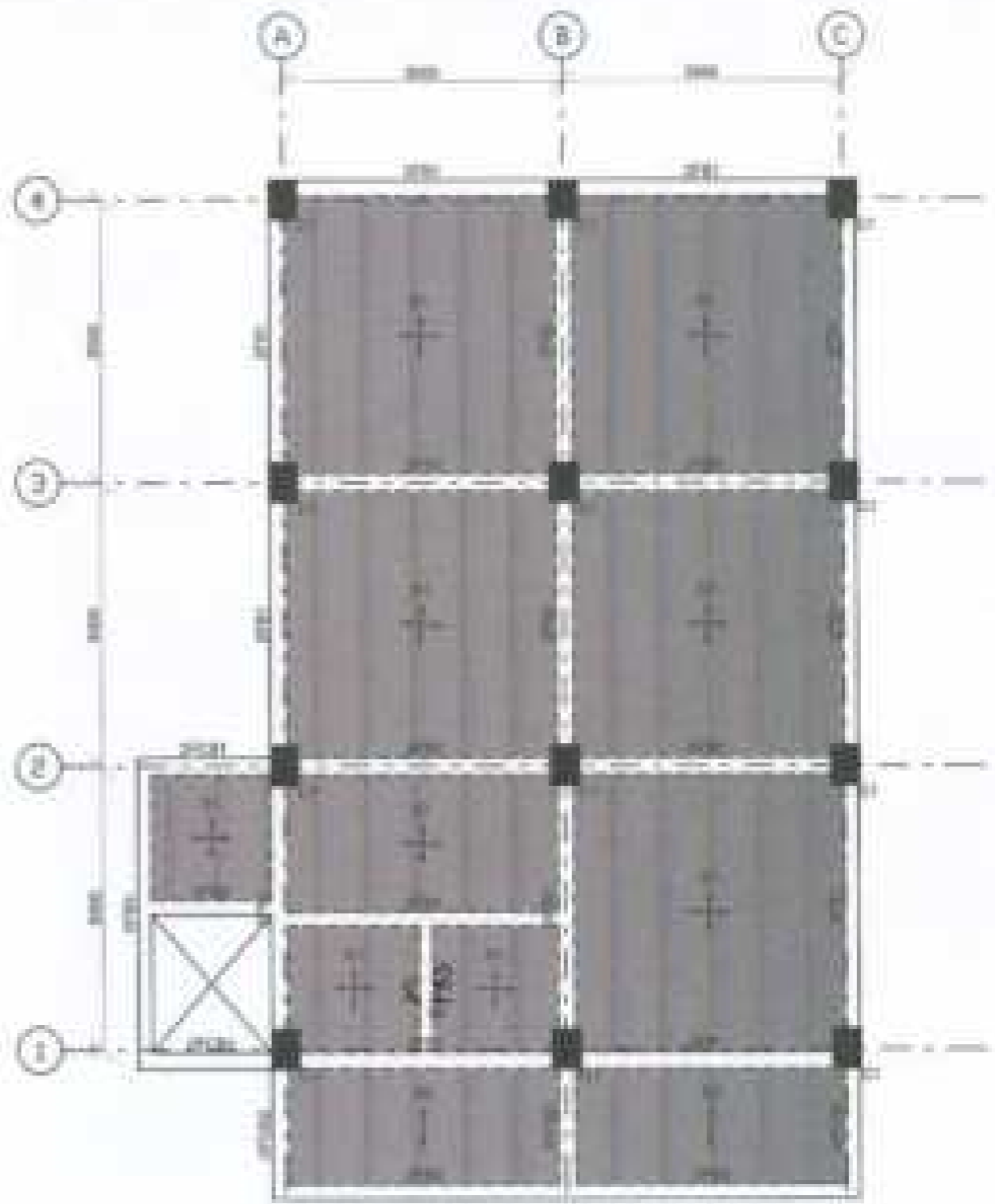
BEAM- COLUMN JOINT REINFORCEMENT



DESIGN BY: BRIDGES STATE UNIVERSITY OFFICE OF CIVIL ENGINEERING AND SURVEYING	DATE: 08/15/2023 DRAWN BY: CAVITIA FERRER CHECKED BY: DR. JUAN CARLOS SCALE: 1/8" = 1'-0"	DESIGN BY: CHECKED BY: 	PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY OFFICE: BRIDGES STATE UNIVERSITY, BRIDGE STATE, BRIDGE STATE, BRIDGE STATE	DATE: 08/15/2023	PROJECT NO.: SHEET NO.: TOTAL SHEETS:	(S-4)
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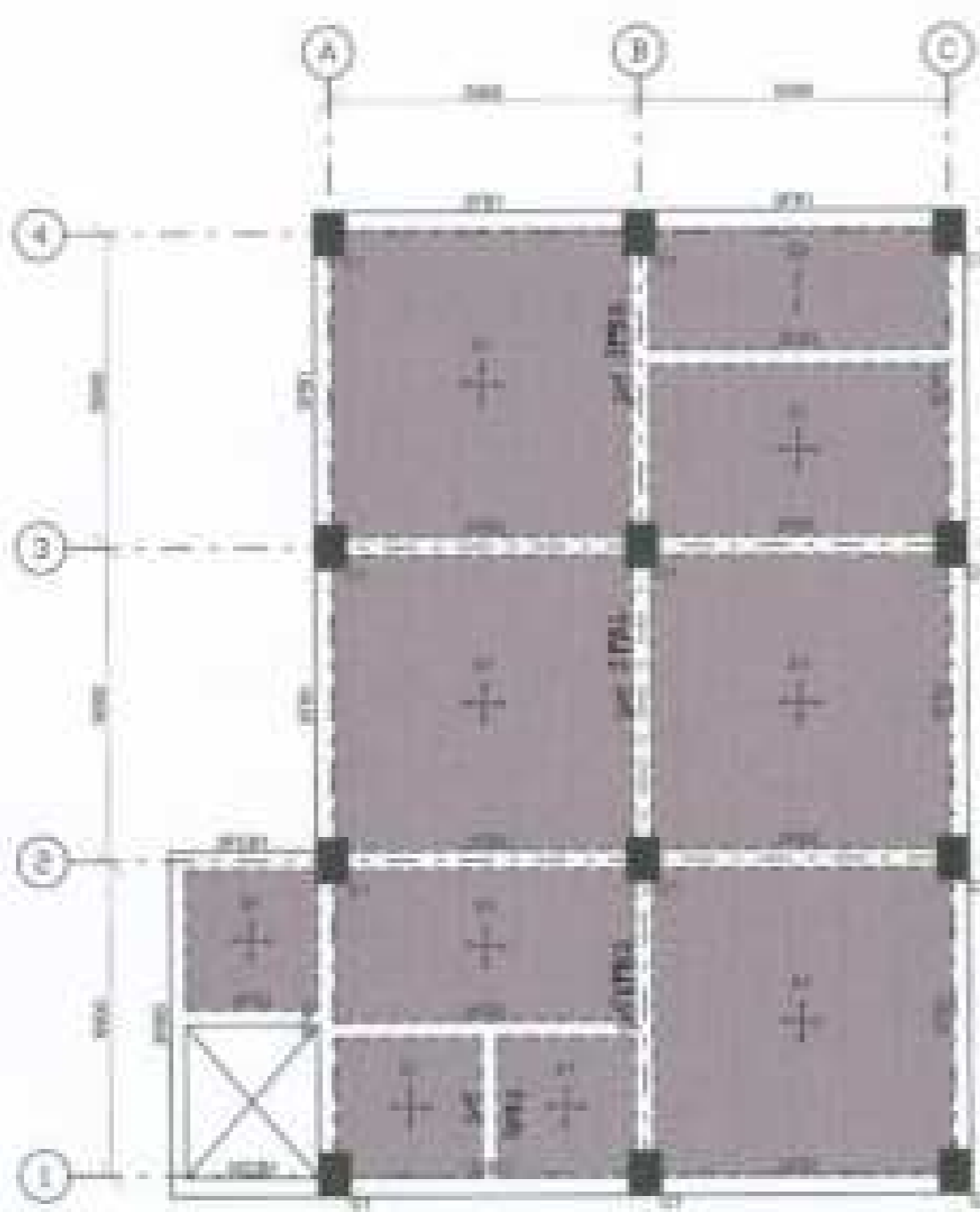


1 FOUNDATION PLAN
 1/4" = 1'-0" SCALE

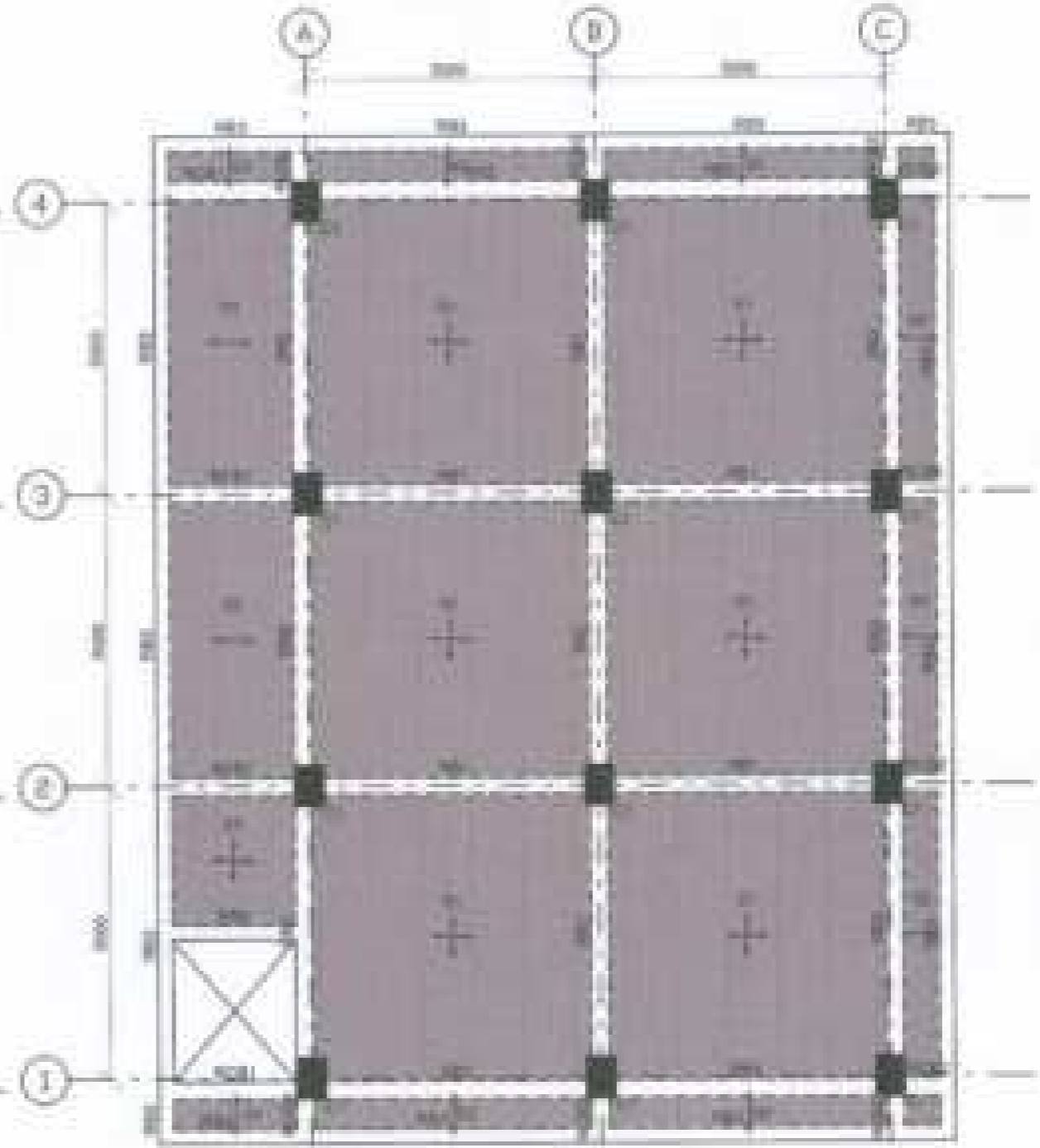


2 SECOND FLOOR BEAM FRAMING PLAN
 1/4" = 1'-0" SCALE




DESIGNER: BRUNER UTTE ENGINEERS NOTES BY: PHYSICAL PLANT AND FACILITIES	PROJECT NO.: RAYMOND F. ORR ARCHITECT 1000 W. 10TH ST. SUITE 100 DENVER, CO 80202	DRAWN BY: CHECKED BY: APPROVED BY:	PROJECT TITLE: PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY OWNER: BRUNER UTTE ENGINEERS - See Notes on Drawing Sheet 1000	SHEET NO.: SI-0006	DESIGNER: DATE:	SHEET NO.: <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> S-6 </div>
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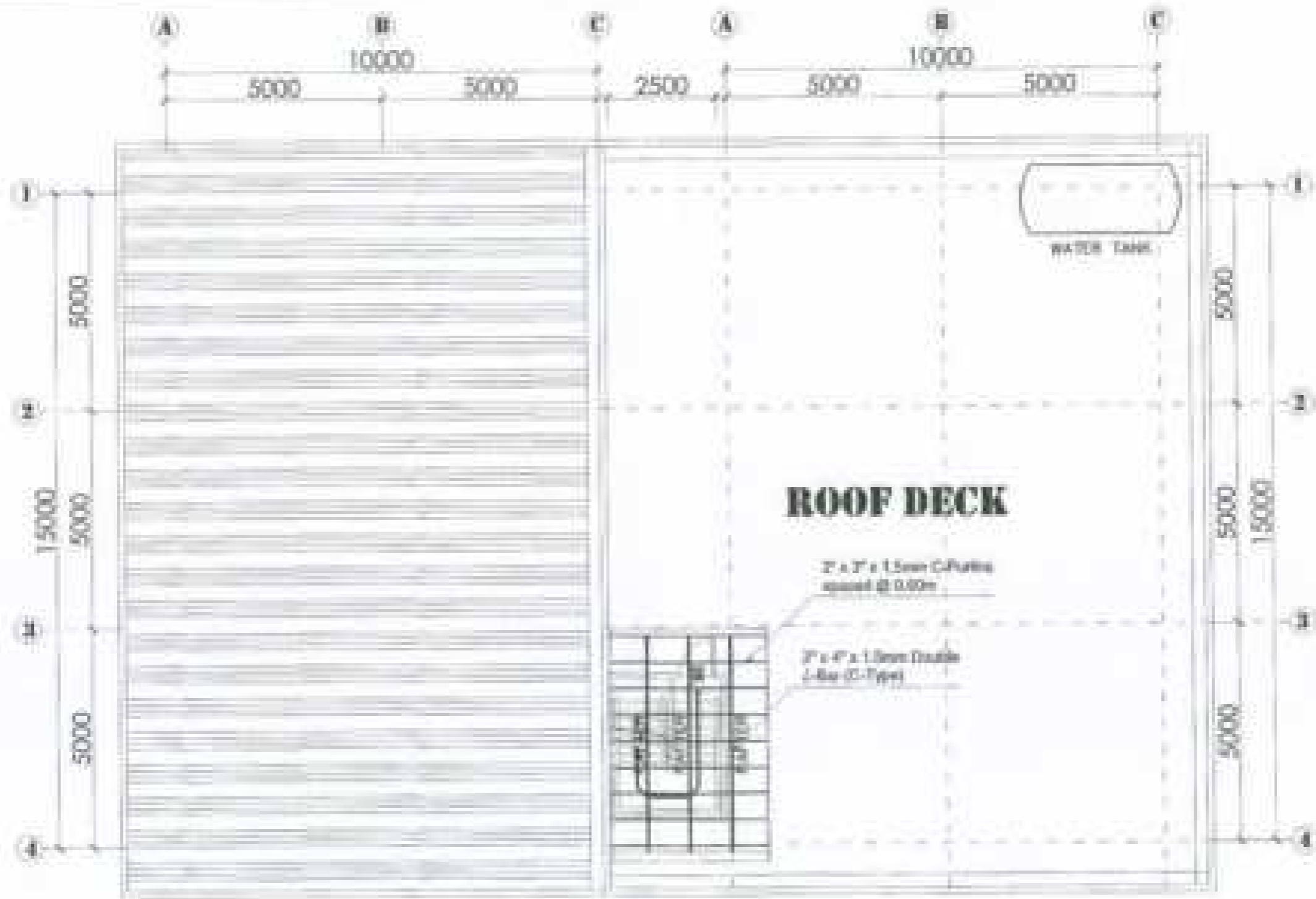


1 THIRD FLOOR BEAM FRAMING PLAN
S-7-7 SCALE: 1/8"=1'-0"



2 ROOF DECK BEAM FRAMING PLAN
S-7-7 SCALE: 1/8"=1'-0"

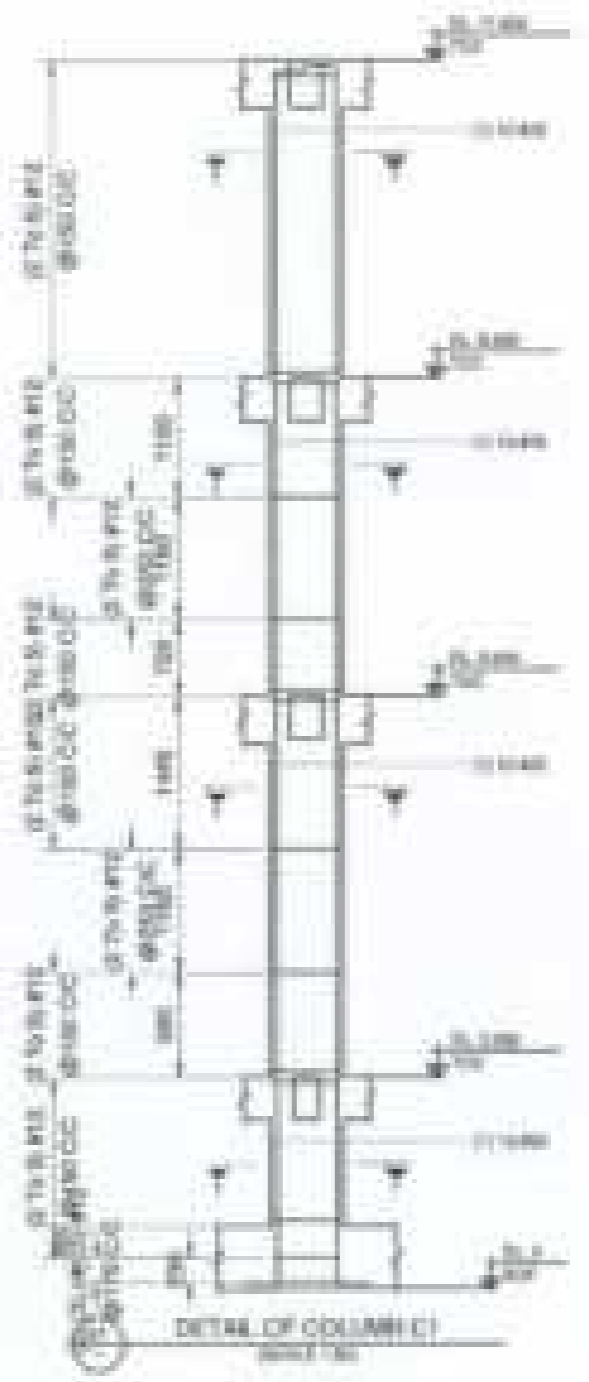
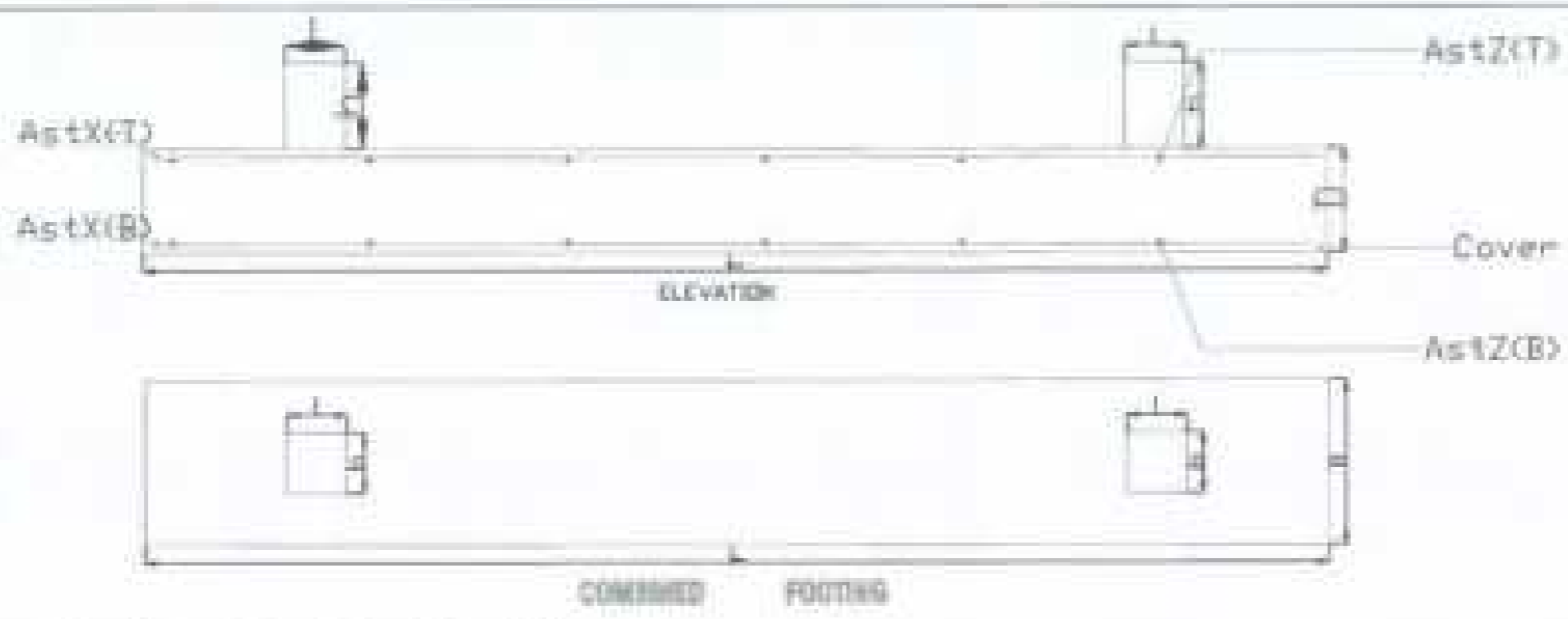
DESIGNER: BENJAMIN CIVIL ENGINEERING	DATE: 08/20/2024  BENJAMIN CIVIL ENGINEERING 1111 S. 10TH AVE., SUITE 100 DENVER, CO 80202 TEL: 303.733.1111 FAX: 303.733.1112	PROJECT NO.: 24-001	PROJECT TITLE: PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY	SHEET NO.: S-7-7	SHEET TOTAL: S-7-7	DATE: 08/20/2024	DESIGNED BY: E.S.C.	
CHECKED BY: E.S.C.	APPROVED BY: 	PROJECT LOCATION: 1111 S. 10TH AVE., SUITE 100, DENVER, CO 80202	PROJECT OWNER: UNIVERSITY OF DENVER	DRAWN BY: E.S.C.	DATE: 08/20/2024	SCALE:	SHEET NO.:	
NOTES: SEE OTHER SHEETS FOR DETAILS.	CONTRACT NO.:	PROJECT NO.:	PROJECT TITLE:	SHEET NO.:	SHEET TOTAL:	DATE:	SHEET NO.:	



1 ROOF PLAN VIEW
 1:10 SCALE

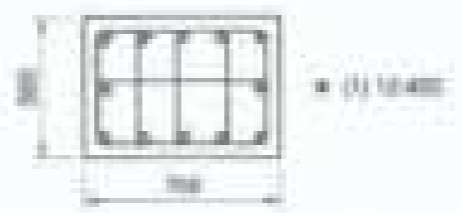
PROJECT NO.	DATE	ISSUE NO.	ISSUE TITLE	ISSUE DATE	ISSUE BY	ISSUE FOR
UNIVERSITY OF SINGAPORE	15/05/2018	01	PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY	15/05/2018	AL CHEN	ISSUED FOR OPERATIONAL USE
UNIVERSITY OF SINGAPORE	15/05/2018	02	PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY	15/05/2018	AL CHEN	ISSUED FOR OPERATIONAL USE
UNIVERSITY OF SINGAPORE	15/05/2018	03	PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY	15/05/2018	AL CHEN	ISSUED FOR OPERATIONAL USE
UNIVERSITY OF SINGAPORE	15/05/2018	04	PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY	15/05/2018	AL CHEN	ISSUED FOR OPERATIONAL USE



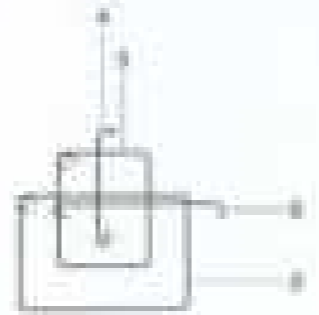



Combined Footing Schedule

Foundation Mark	Column No.	Column Perimeter			Foundation			Cover (mm)	Reinforcement			
		1 (mm)	2 (mm)	3 (mm)	L (mm)	B (mm)	B (mm)		As(X)(T)	As(X)(B)	As(Z)(T)	As(Z)(B)
F11	4	500	700	1200								
	5	500	700	1200	1400	2400mm	600mm	75mm	30 # 200 mm	30 # 200 mm	30 # 200 mm	30 # 200 mm
	6	500	700	1200								



SECTION 1-1 (C1)
SCALE 1/20



NUMBER OF MINIMUM STATE UNIVERSITY OFFICE OF PHYSICAL PLANNING AND FACILITIES	DRAWING NO.  RAYMOND F. ASH PHYSICAL PLANNING AND FACILITIES 1100 N. PETERSON P.O. BOX 1000 ST. LOUIS, MO 63103	DRAWING BY DATE CHECKED BY	PROJECT TITLE PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY	SHEET NUMBER SI 12000	NUMBER OF SEE SHEETS	SHEET NO. S-9
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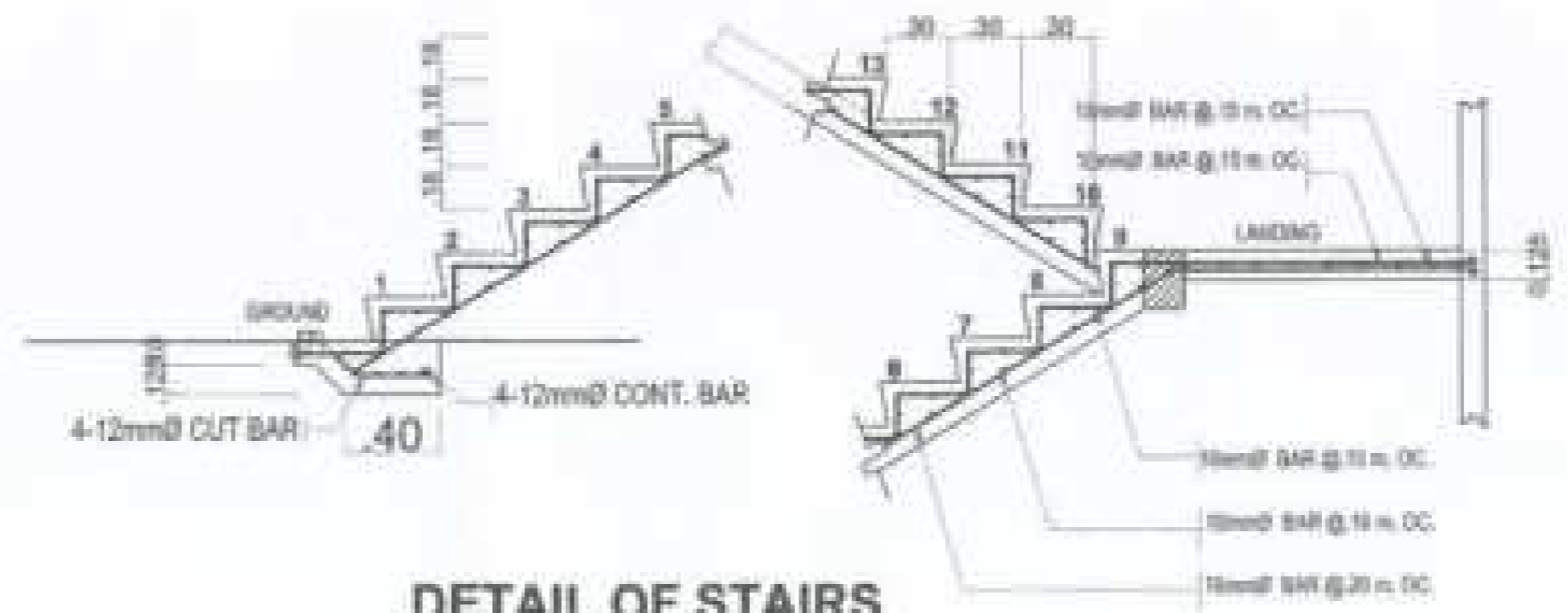
BEAM SCHEDULE (CST-5 Fy414)

Beam Number	SPT			SPT			SPT			Beam Length	Beam Type	Notes
	Span	Support	Support	Span	Support	Support	Span	Support	Support			
B1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
B2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
B3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
B4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
B5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
B6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
B7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
B8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
B9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
B10	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
B11	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
B12	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
B13	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
B14	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
B15	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
B16	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
B17	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
B18	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
B19	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
B20	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	

Beam Number	Section	Notes
B1	1.0	
B2	1.0	
B3	1.0	
B4	1.0	
B5	1.0	
B6	1.0	
B7	1.0	
B8	1.0	
B9	1.0	
B10	1.0	
B11	1.0	
B12	1.0	
B13	1.0	
B14	1.0	
B15	1.0	
B16	1.0	
B17	1.0	
B18	1.0	
B19	1.0	
B20	1.0	

COLUMN SCHEDULE

1. All columns shall be cast in place concrete with reinforcement as shown in the drawings.
 2. All columns shall be cast in place concrete with reinforcement as shown in the drawings.

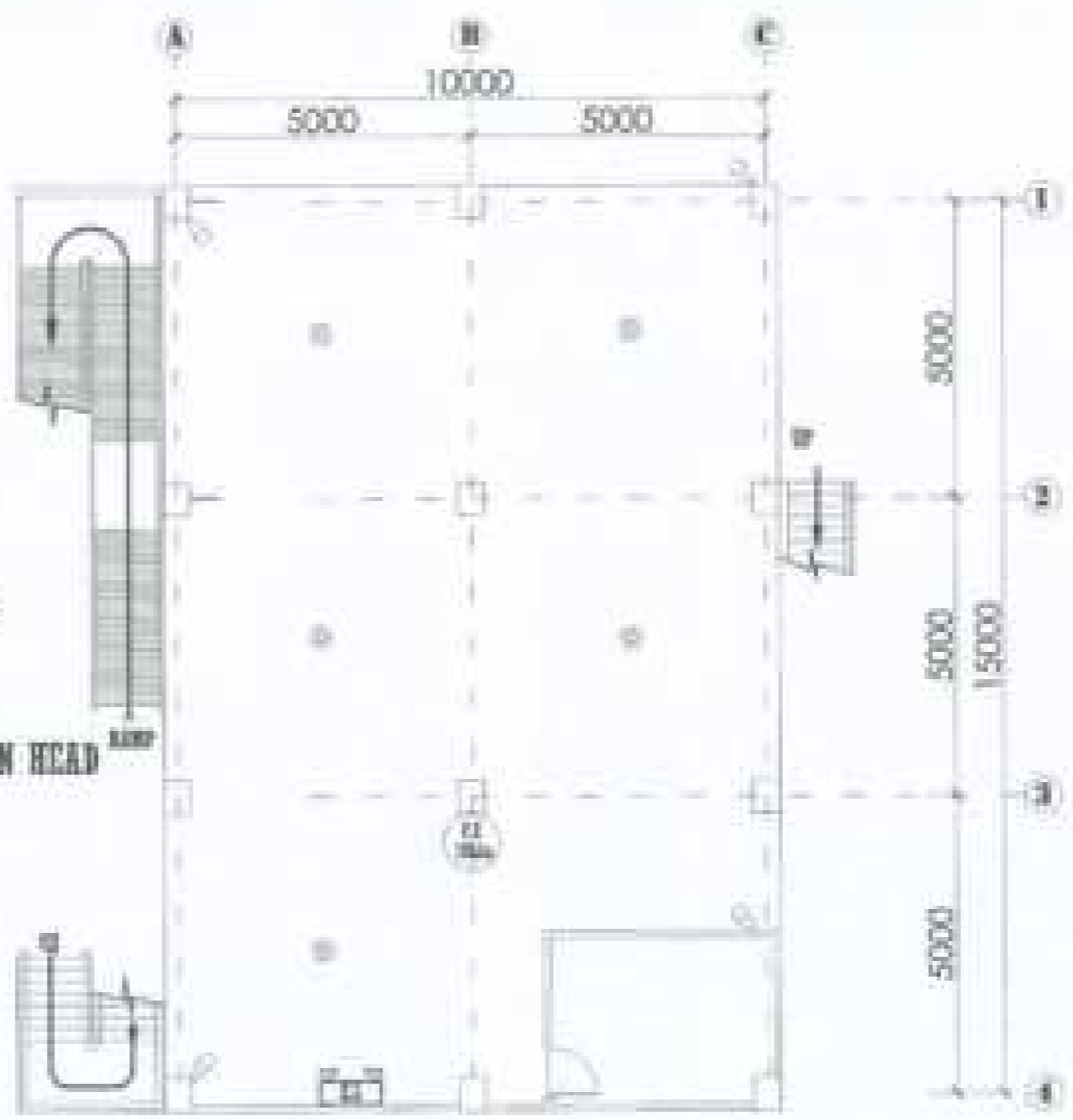


DETAIL OF STAIRS

<p>DESIGNED BY: BRUNNEN ENGINEERING</p> <p>DATE: 15/05/2024</p>	<p>BRUNNEN ENGINEERING</p> <p>100, BRUNNEN ROAD, SINGAPORE 119971</p>	<p>PROJECT TITLE: PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY</p>	<p>SCALE: AS SHOWN</p>	<p>DATE: 15/05/2024</p>	<p>NO. S-10</p>
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LEGEND:

-  - FIRE ALARM DETECTOR
-  - CCTV
-  - EMERGENCY LIGHT TWIN HEAD
-  - FIRE EXTINGUISHER

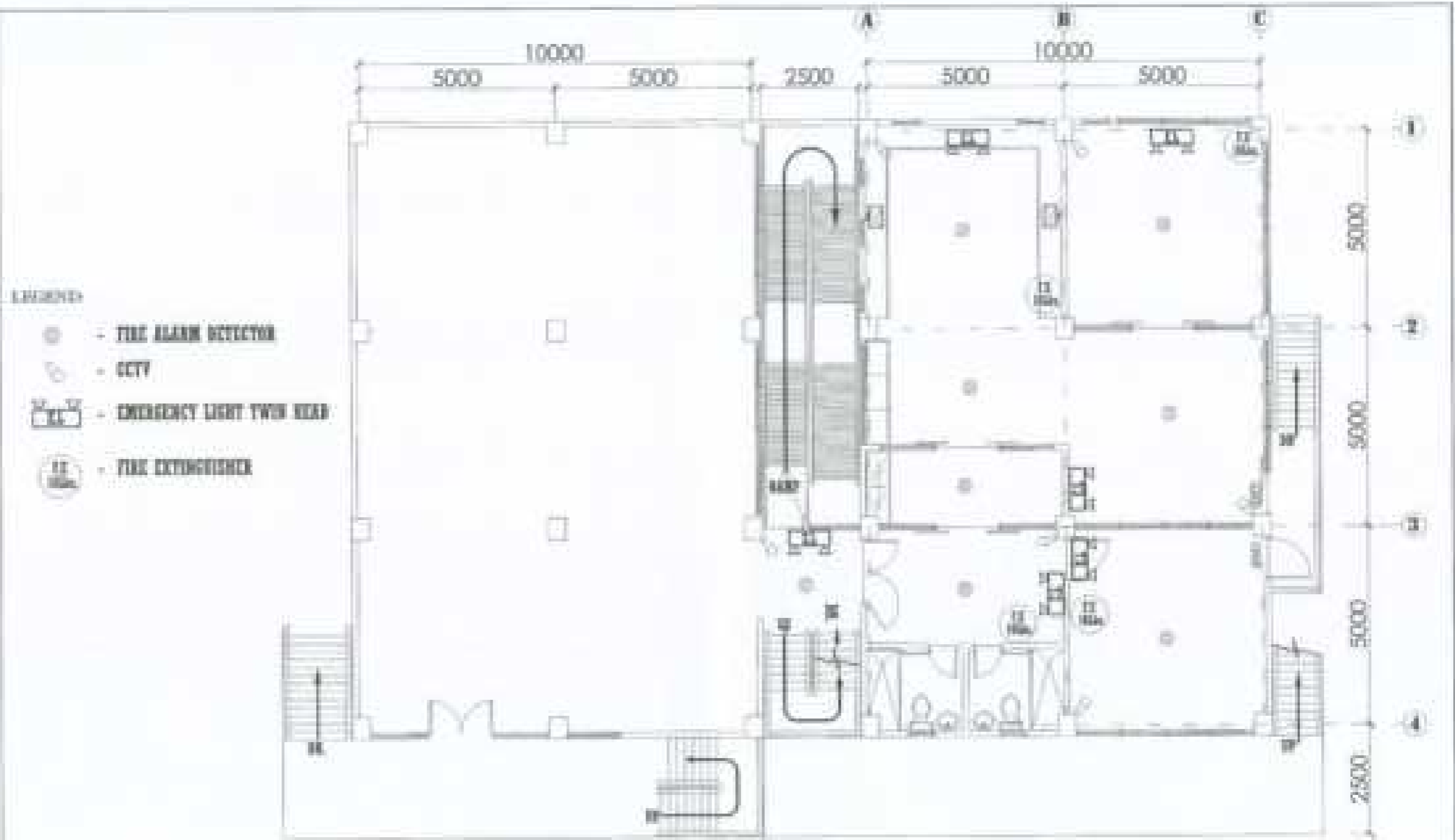


**GROUND FLOOR CCTV/EMERGENCY LIGHT/
F.D.E/FIRE EXTINGUISHER LAYOUT PLAN**

NTS

DESIGNED BY ARRAGON YVES UNIVERSITY	THE ARCHITECT/ENGINEER/PLANNING RAYMOND F. FARR	DRAWN BY 	PROJECT TITLE PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY	SHEET NUMBER 42 OF 48	SHEET NO. CAD OPERATOR:	DATE:
OFFICE OF PHYSICAL PLANT AND FACILITIES	PROJECT NO. 2022-0001 DATE: 05/15/2024 TIME: 2:00 PM	CHECKED BY 	APPROVED BY THE UNIVERSITY: No longer using these terms.	SCALE:	SHEET NO.:	DATE:

F-1



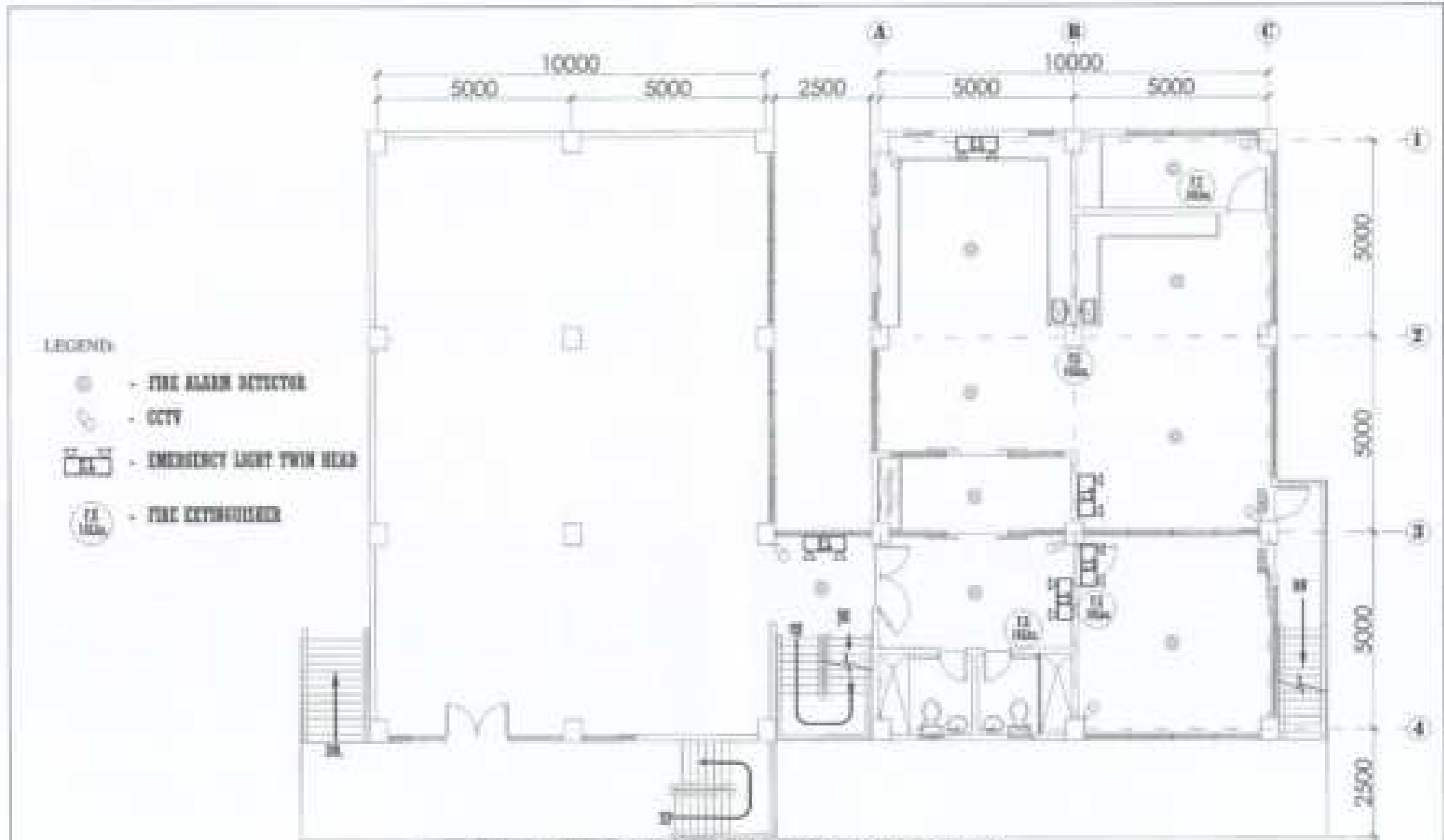
- LEGEND:**
- FIRE ALARM DETECTOR
 - CCTV
 - EMERGENCY LIGHT TWIN HEAD
 - FIRE EXTINGUISHER



**SECOND FLOOR CCTV/EMERGENCY LIGHT/
F.D.E/FIRE EXTINGUISHER LAYOUT PLAN**

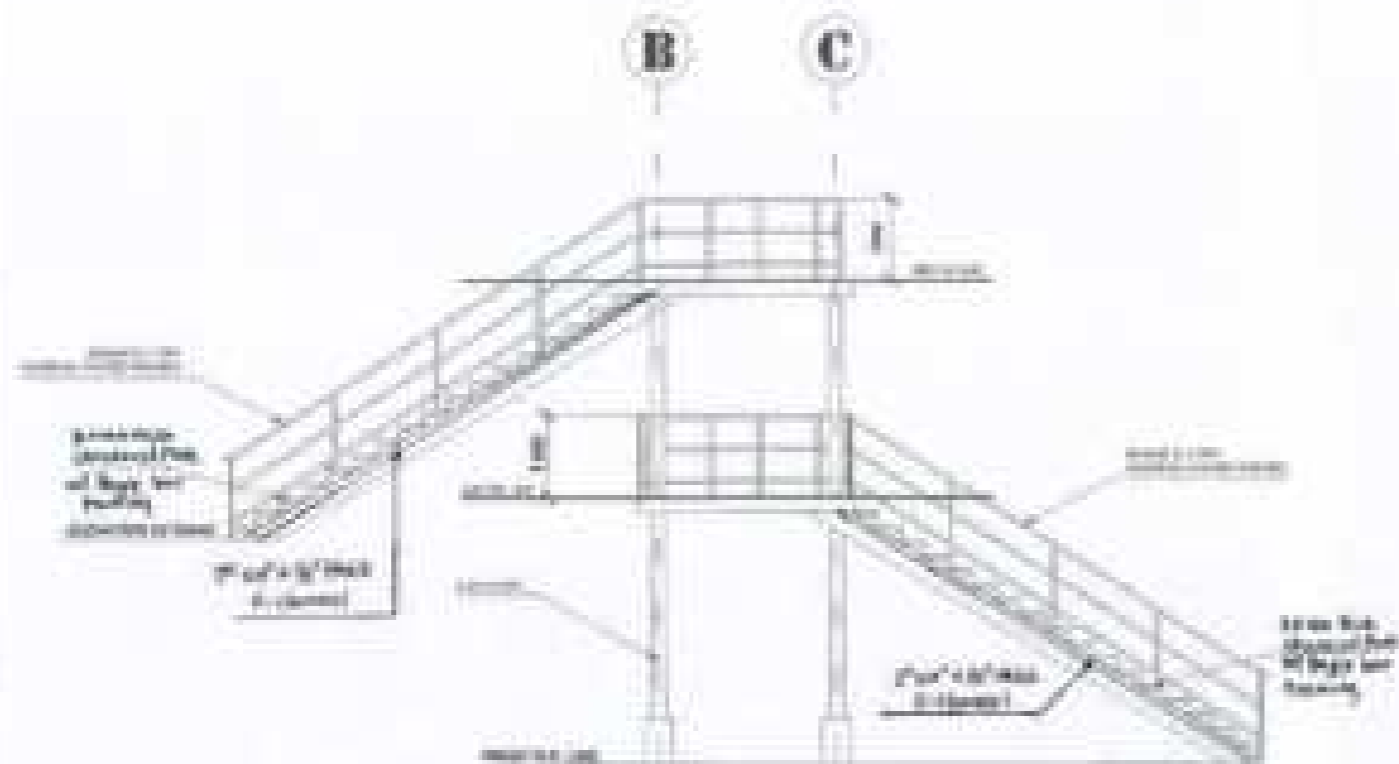
HTS

PROJECT NO: SRINAGAR STATE UNIVERSITY	SITE ADDRESS: PATEL ROAD, ALAKH NAGAR ELECTRICIAN	DRAWN BY: 	PROJECT TITLE: PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY	DATE ISSUED: 15/08/2019	DRAWN BY: CEG SYSTEMS	SHEET NO.: F-2
OFFICE OF PHYSICAL PLANT AND FACILITIES	PROJECT NO. 2019/11 DATE: 15/08/2019 SCALE: AS SHOWN	CHECKED BY: 	APPROVED BY: 	PROJECT NO.: DATE:	SHEET NO.: F-2	SHEET NO.: F-2

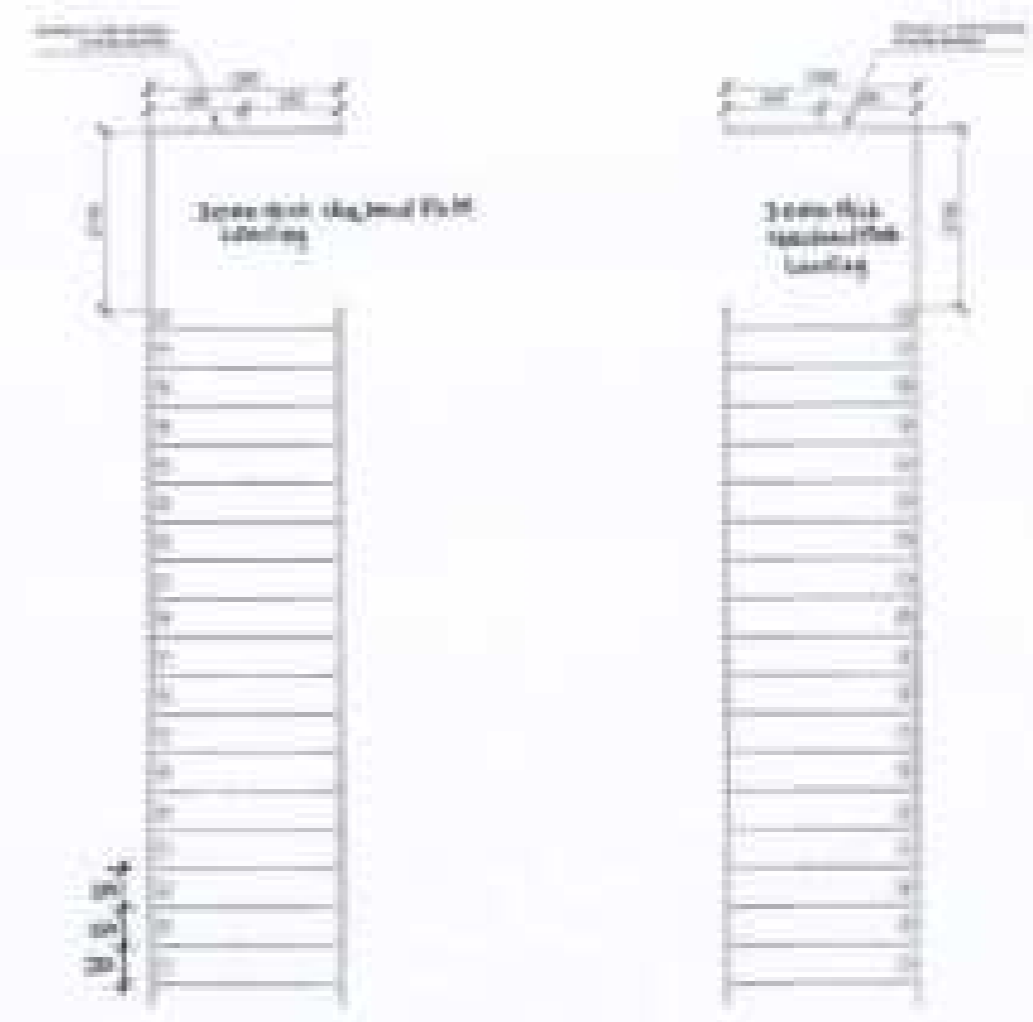


1
THIRD FLOOR CCTV/EMERGENCY LIGHT/
F.D.E/FIRE EXTINGUISHER LAYOUT PLAN
 N.T.S.

DESIGN BY BERNARD STATE UNIVERSITY OFFICE OF PHYSICAL PLANT AND FACILITIES	DATE SUBMITTED DAVID F. FARR PROJECT NO. 2008-0001	DESIGN BY 	PROJECT TITLE PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY BUREAU "UNDER THE BRIDGE" - ALL STAGES USING BIDDING PROCESS	DATE ISSUED 01/18/09	SHEET NO. CRD-000000 ALL 001 001	SHEET NO. F-3
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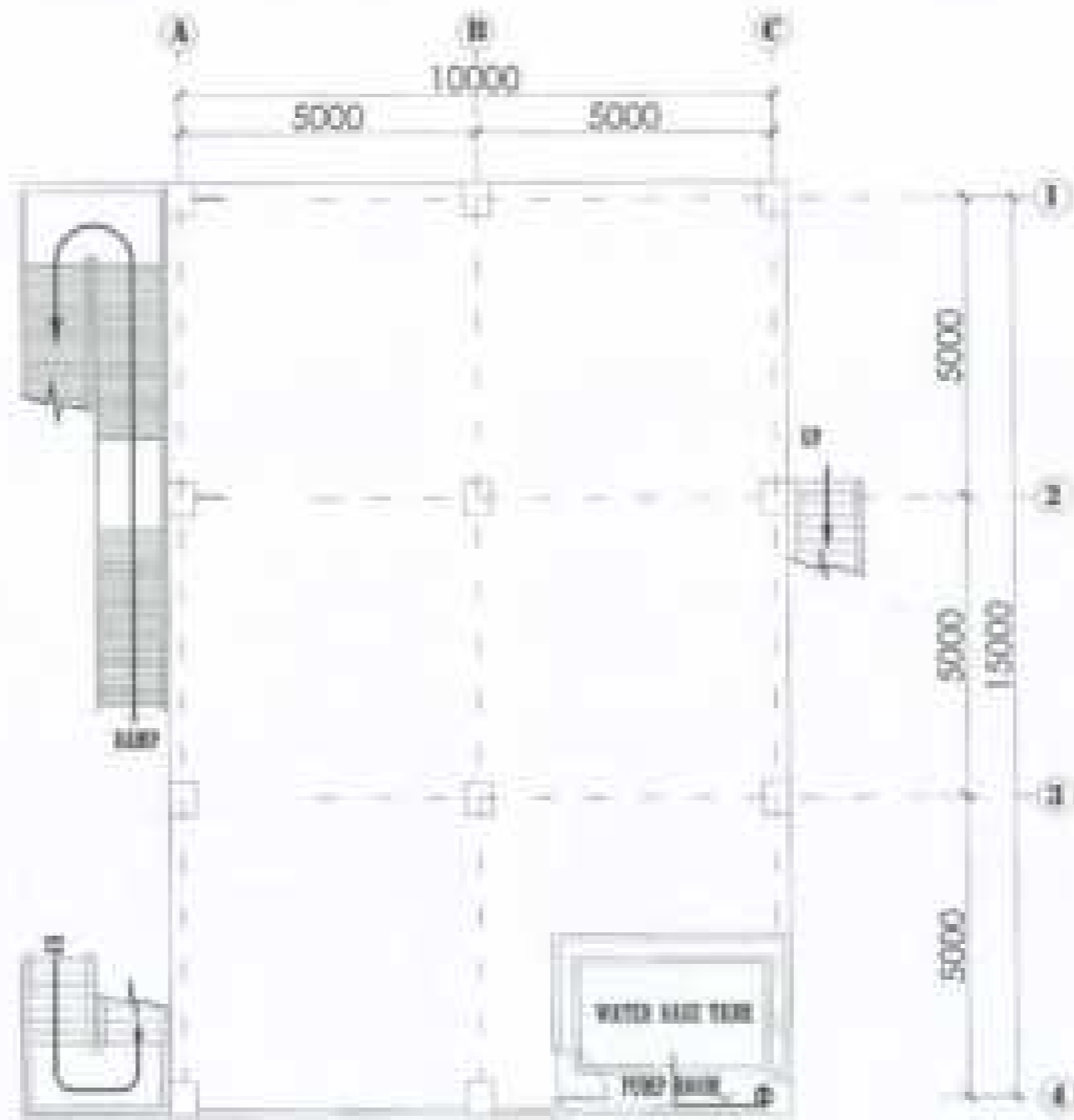


1 FIRE ESCAPE ELEVATION PLAN
SCALE: 1/8" = 1'-0"



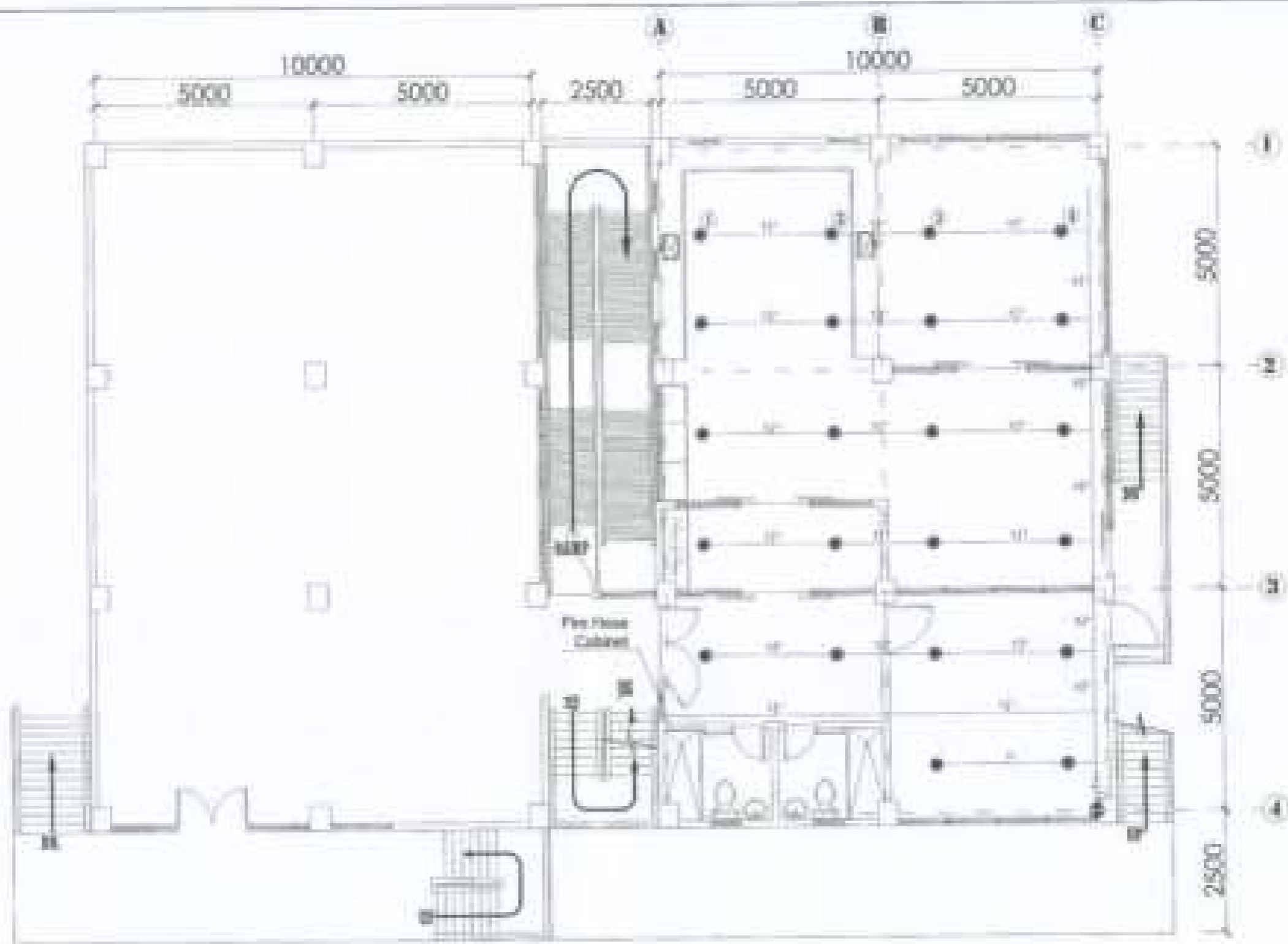
2 FIRE ESCAPE PLAN
SCALE: 1/8" = 1'-0"

NUMBER OF BERKSHIRE STATE UNIVERSITY OFFICE OF PHYSICAL PLANT AND FACILITIES	DATE: 05/05/2014 CAVALLINI FADIC PROJECT NO. 14-001 DRAWING NO. 14-001-01	DESIGN BY CHECKED BY 	PROJECT TITLE CONSTRUCTION OF UNIVERSITY LIBRARY BUILDING	SHEET NUMBER F-4 OF TOTAL SHEETS IN SET F-1 TO F-10	DRAWN BY DATE:	CHECKED BY DATE:	APPROVED BY DATE:	PROJECT NO. 14-001	SHEET TITLE F-4
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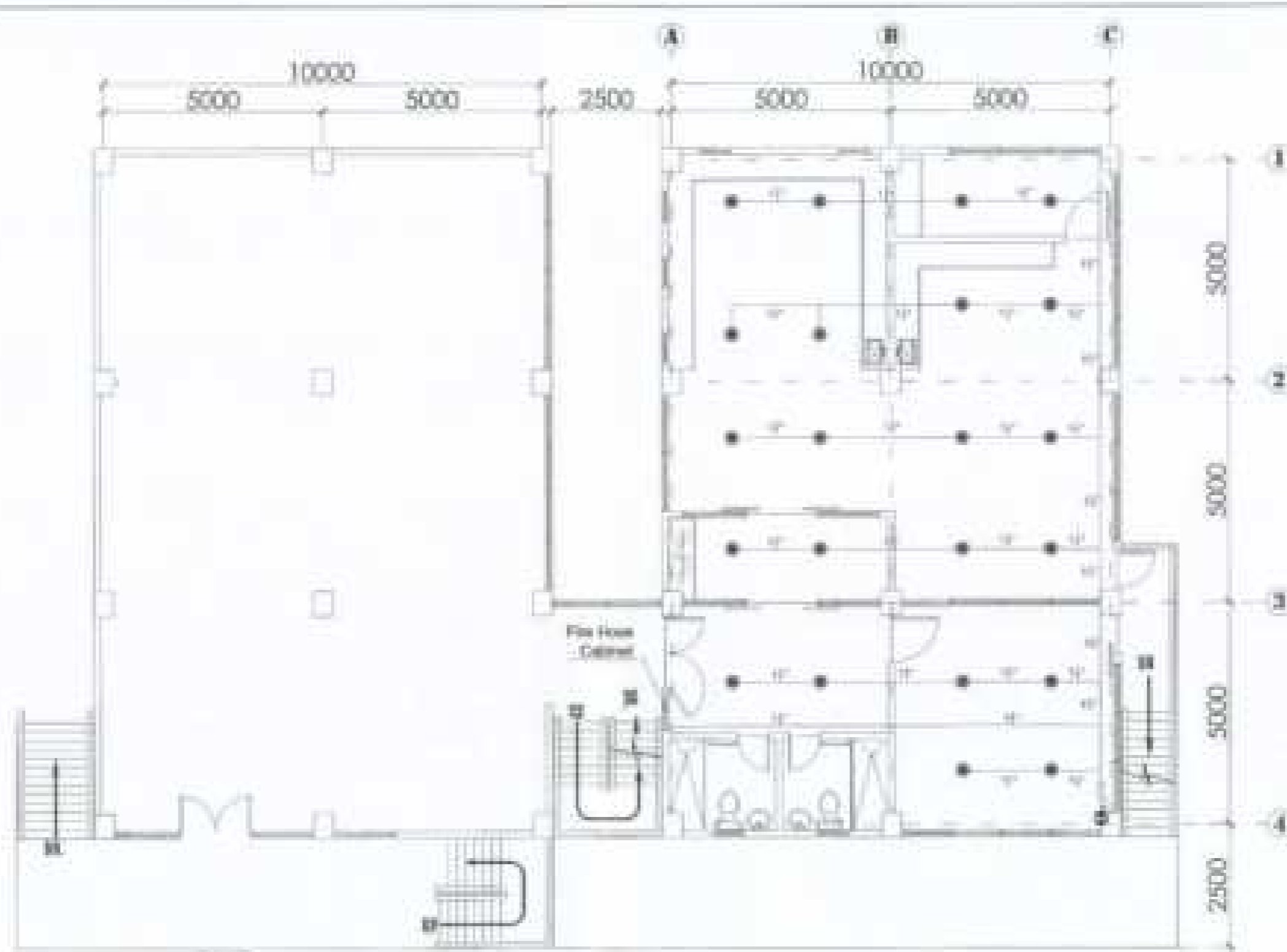
I GROUND FLOOR SPRINGKLING LAYOUT PLAN
 SCALE 1:100

PROJECT NO.	DESIGNER <i>[Signature]</i>	DATE	PROJECT TITLE	DRAWN BY EJ. BRUNO	CHECKED BY	SCALE NO.
UNIVERSITY OF RIZAL SYSTEM	OFFICE OF PHYSICAL PLANT AND FACILITIES	<i>[Signature]</i>	PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY		EJ. BRUNO	F-5



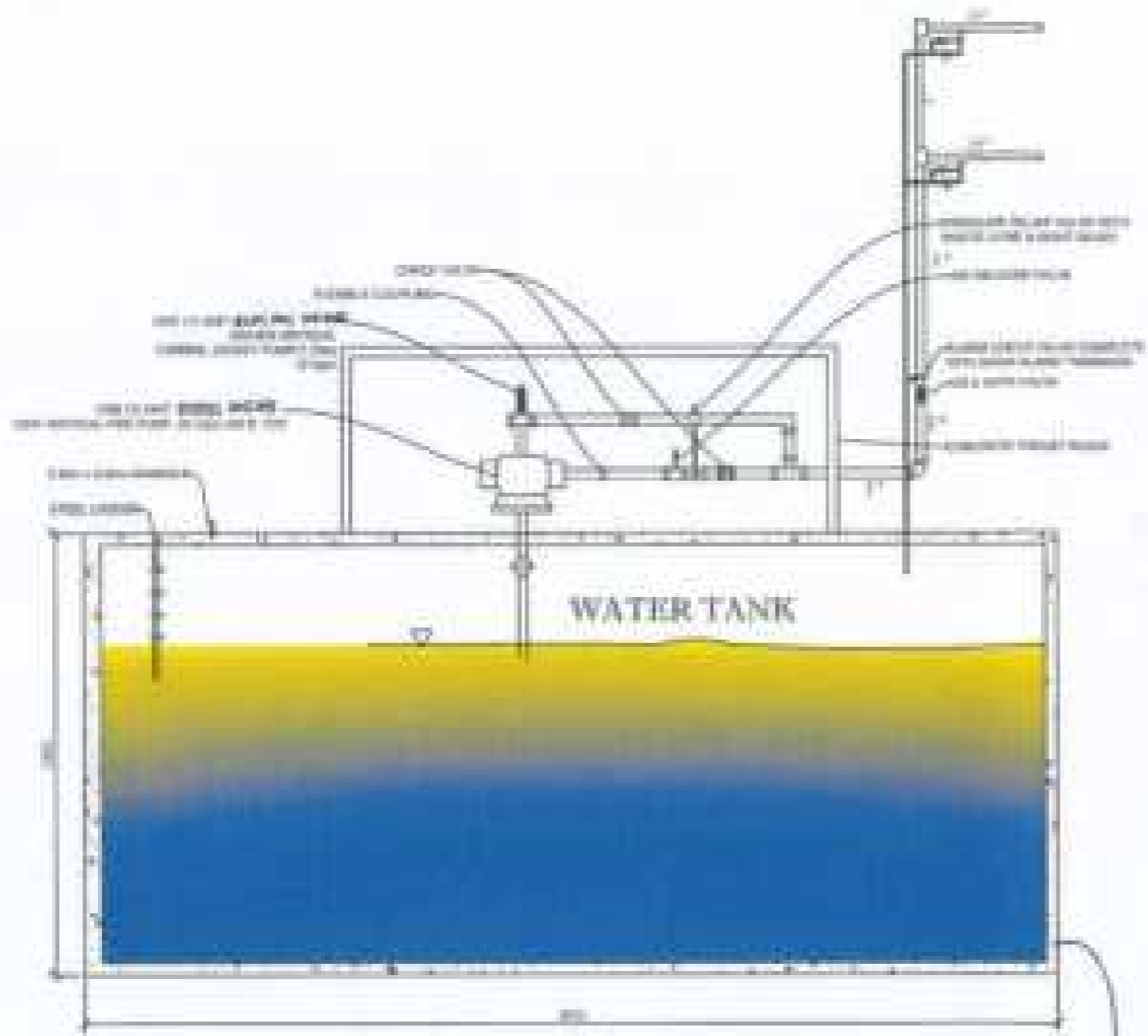
I SECOND FLOOR SPRINKLING LAYOUT PLAN
 SCALE: 1:100

DRAWING NO. BIRLA INSTITUTE OF TECHNOLOGY	PROJECT NO. <i>[Handwritten]</i>	SHEET NO. <i>[Handwritten]</i>	SHEET TITLE PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY	SHEET NUMBER 61 OF 60	PROJECT NO. CIB OPERATING	SHEET NO. F-6
OFFICE OF PHYSICAL PLANT AND FACILITIES	DESIGNER <i>[Handwritten]</i>	CHECKED BY <i>[Handwritten]</i>	APPROVED BY <i>[Handwritten]</i>		SCALE SHEET NO. DATE	

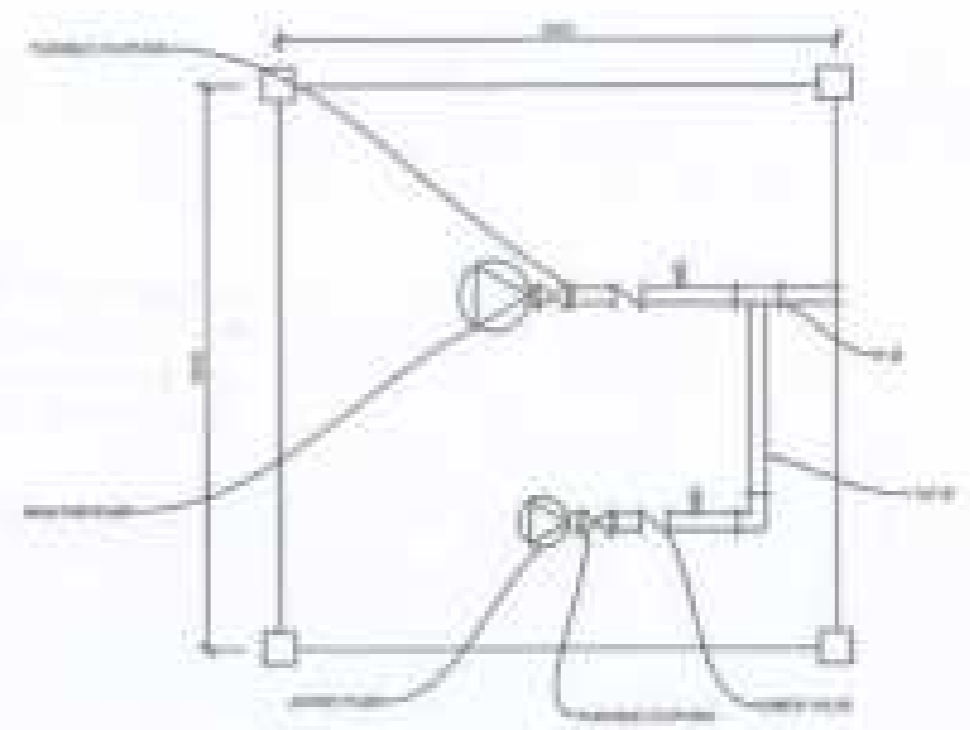


1 THIRD FLOOR SPRINGKLING LAYOUT PLAN
 F-7/F-7 SCALE: 1:100

DRAWING NO.: BERKMAN STATE UNIVERSITY	DESIGNER: <i>[Signature]</i>	CHECKED BY: <i>[Signature]</i>	PROJECT NO.: PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY	PROJECT NAME: ELI CENTER	PROJECT BY: CEG OPERATING	SHEET NO.: F-7
OFFICE OF PHYSICAL PLANT AND FACILITIES	DATE: 8/20/2013	APPROVED: <i>[Signature]</i>	CONTRACTOR: DAVIDSON GROUP INC. 10000 W. 10TH AVE. SUITE 1000 DENVER, CO 80202	DATE: 	SCALE: SHEET NO.: DATE:	



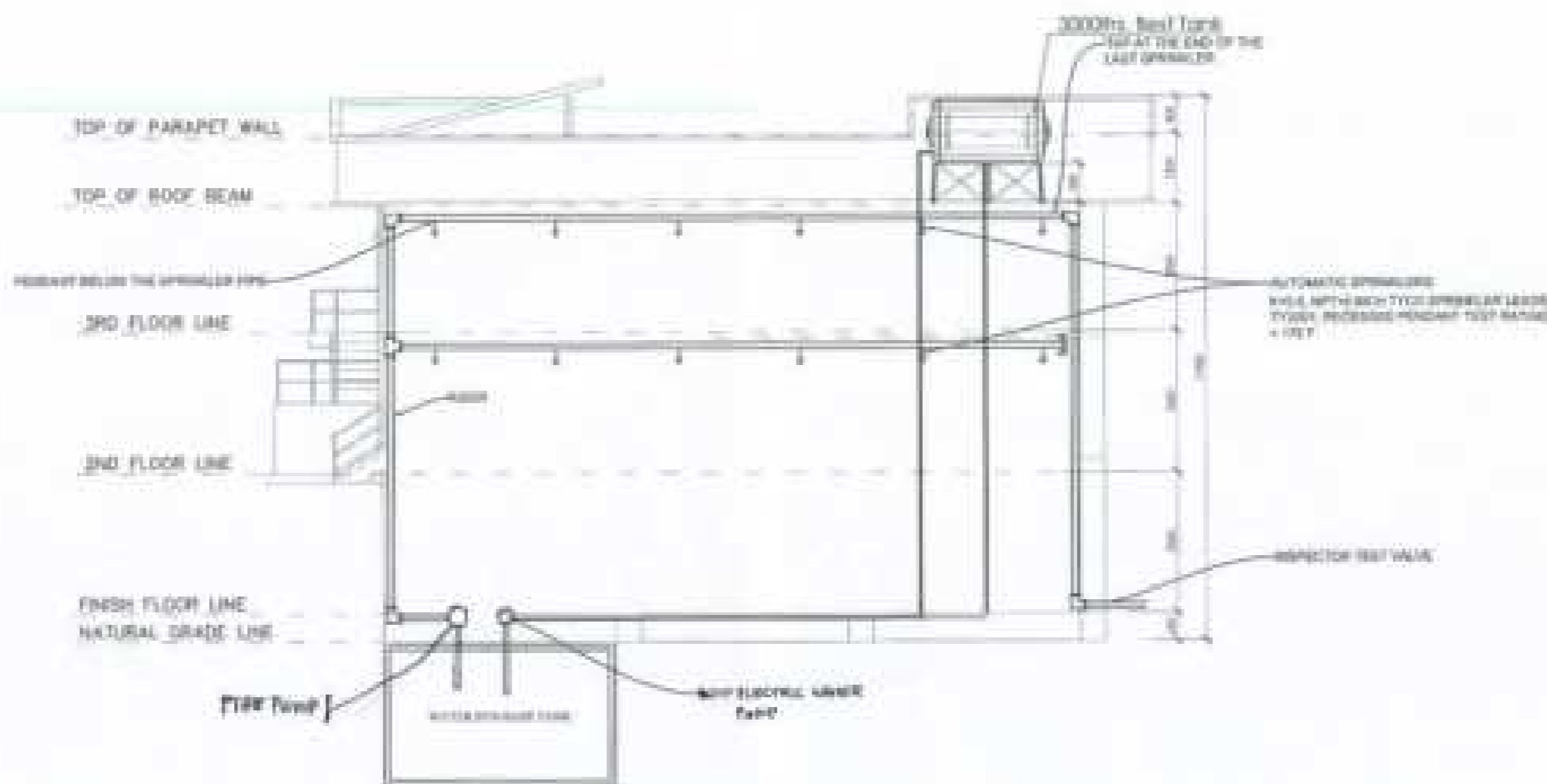
1 PUMP ROOM DETAIL AND INSTALLATION
 1/4" = 1'-0" SCALE



2 PUMP HOUSE ASSEMBLY
 1/4" = 1'-0" SCALE

As shown on page 2 of this drawing, the pump shall be supported with 2" x 4" x 8" x 12" steel and concrete. The pump shall be supported with steel that shall comply with the specifications of the manufacturer. The pump shall be supported with steel that shall comply with the specifications of the manufacturer. The pump shall be supported with steel that shall comply with the specifications of the manufacturer.

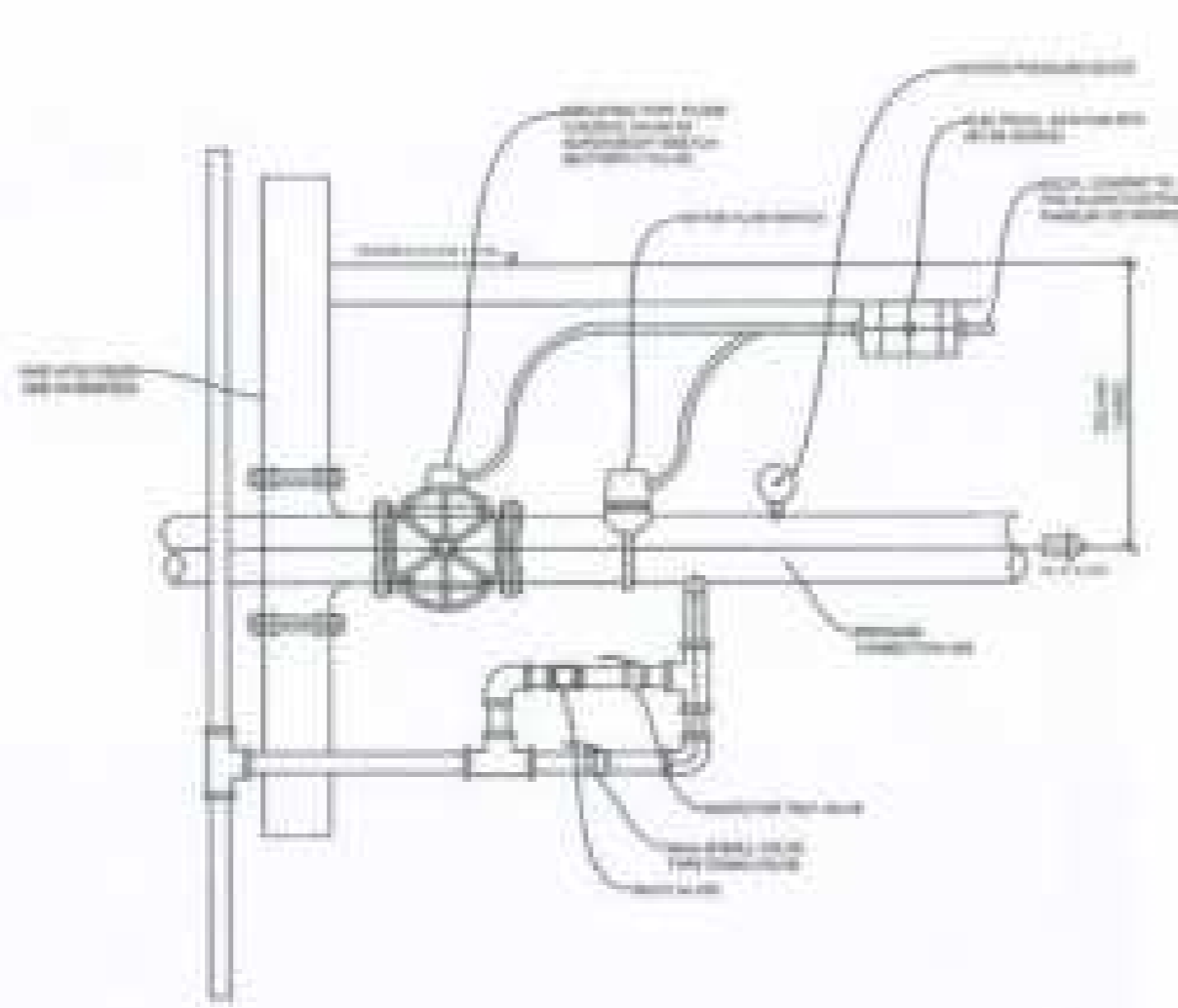
DESIGN BY BERNARD STATE UNIVERSITY OFFICE OF PHYSICAL PLANT AND FACILITIES	DRAWN BY <i>[Signature]</i> DATE 10/1/11	CHECKED BY <i>[Signature]</i> DATE 10/1/11	PROJECT TITLE CONSTRUCTION OF UNIVERSITY LIBRARY BUILDING	SHEET NUMBER 21	DESIGNED BY CEB OPERATING	F-8
	PROJECT NO. 11-0000	CONTRACT NO. 11-0000			SCALE / BAR 1/4" = 1'-0"	
APPROVED BY <i>[Signature]</i> TITLE PROJECT MANAGER			DATE 10/1/11			



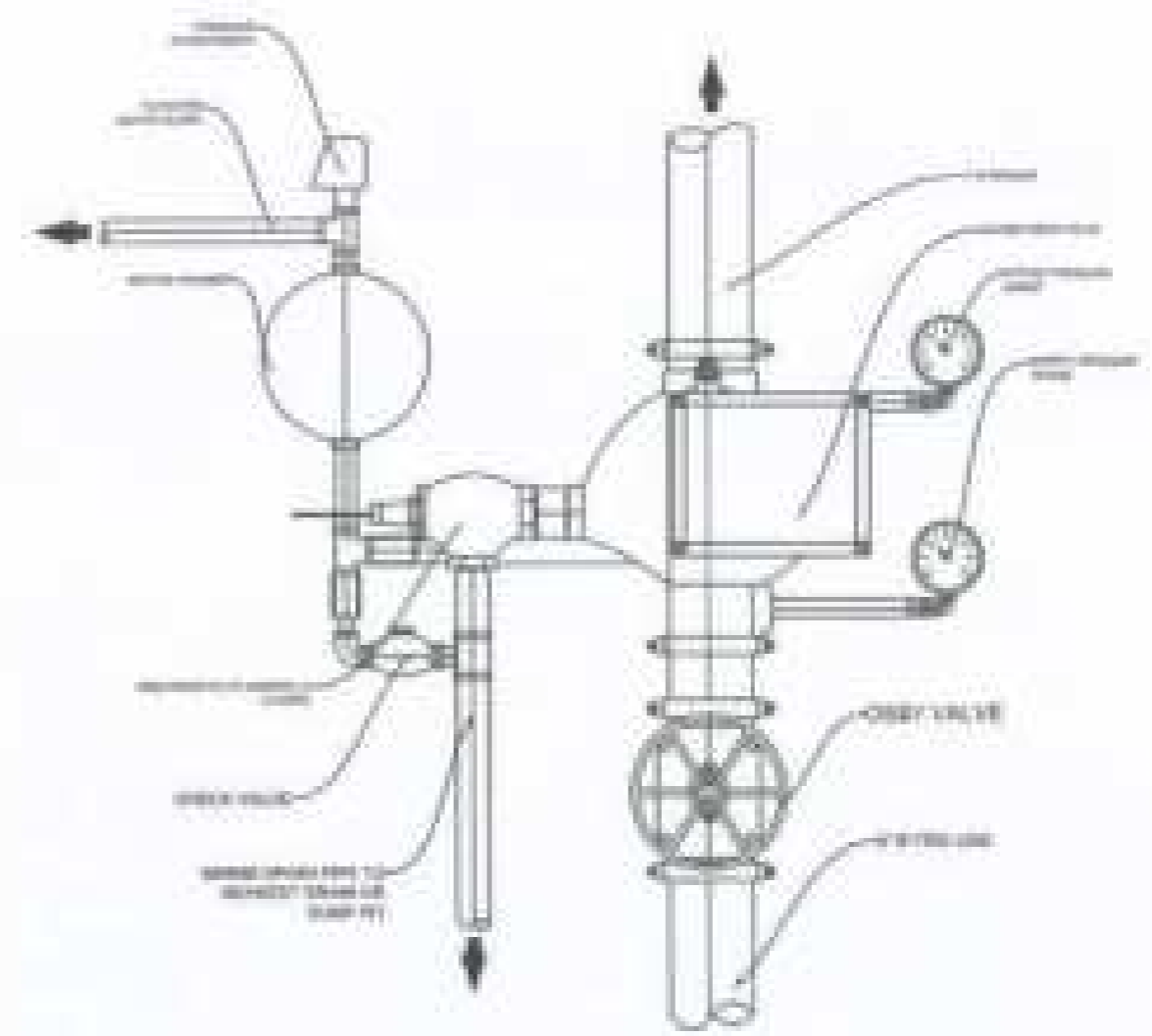
1 PIPING LAYOUT PLAN
 F-9 SCALE 1/8" = 1'-0"

PROJECT NO.: BERNARD STATE UNIVERSITY	DRAWING NO.: <i>[Signature]</i> F-9	SHEET NO.: <i>[Signature]</i>	PROJECT TITLE: CONSTRUCTION OF UNIVERSITY LIBRARY BUILDING	SHEET COUNT: 21 SHEETS	DRAWER NO.: END OPERATING
OFFICE OF PHYSICAL PLANT AND FACILITIES	DATE: 12/1/76	APPROVED BY: <i>[Signature]</i> PROJECT MANAGER	CONTRACTOR: WATSON ENGINEERING COMPANY, INC.	DATE:	DATE:

F-9

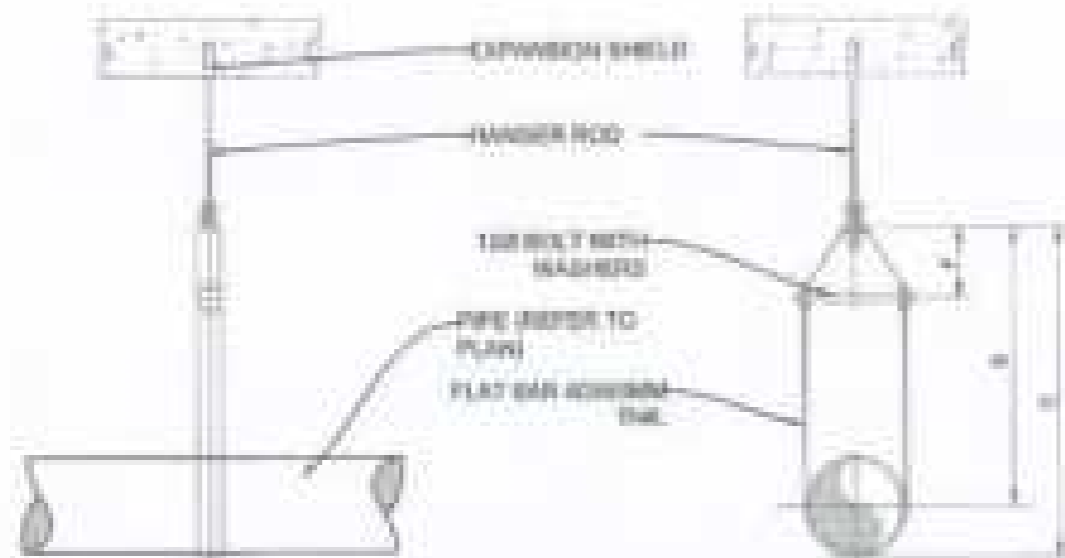


1 FLOOR CONTROL VALVE ASSEMBLY
NOT TO SCALE

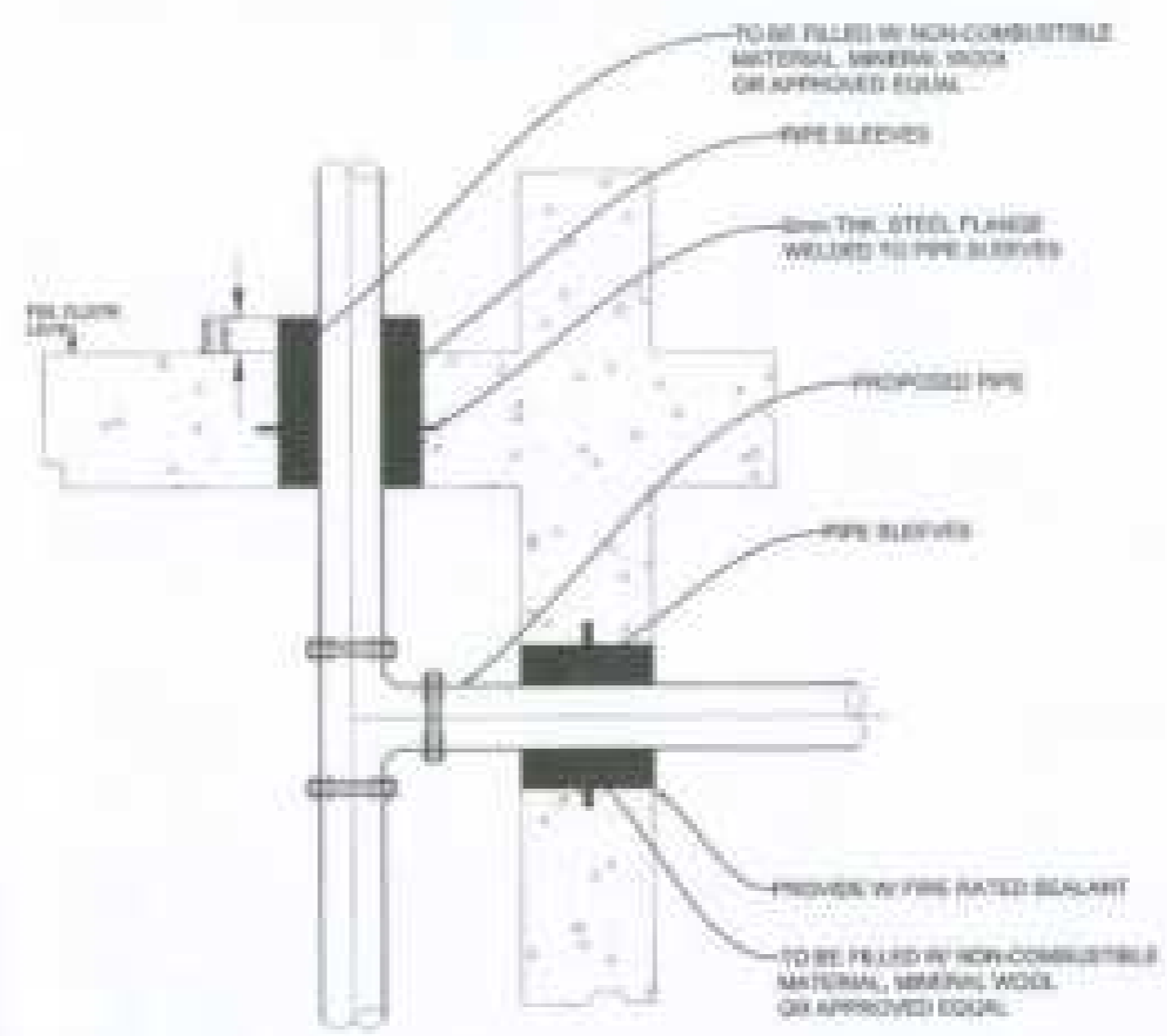


2 ALARM CHECK VALVE ASSEMBLY
NOT TO SCALE

NUMBER OF:	REVISION: <i>[Signature]</i>	DRAWN BY: <i>[Signature]</i>	PROJECT TITLE:	DATE:	CHECKED BY:	CDG OPERATOR:
BERKLEY STATE UNIVERSITY	<i>[Signature]</i>	<i>[Signature]</i>	PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY	01/20/2018	NTC / ELM	F-10
OFFICE OF PHYSICAL PLANT AND FACILITIES	DATE: 1/18/18	<i>[Signature]</i>	APPROVED:	DATE:	DATE:	
			APPROVED:			



1 PIPE HANGER DETAILS
N.T.C.



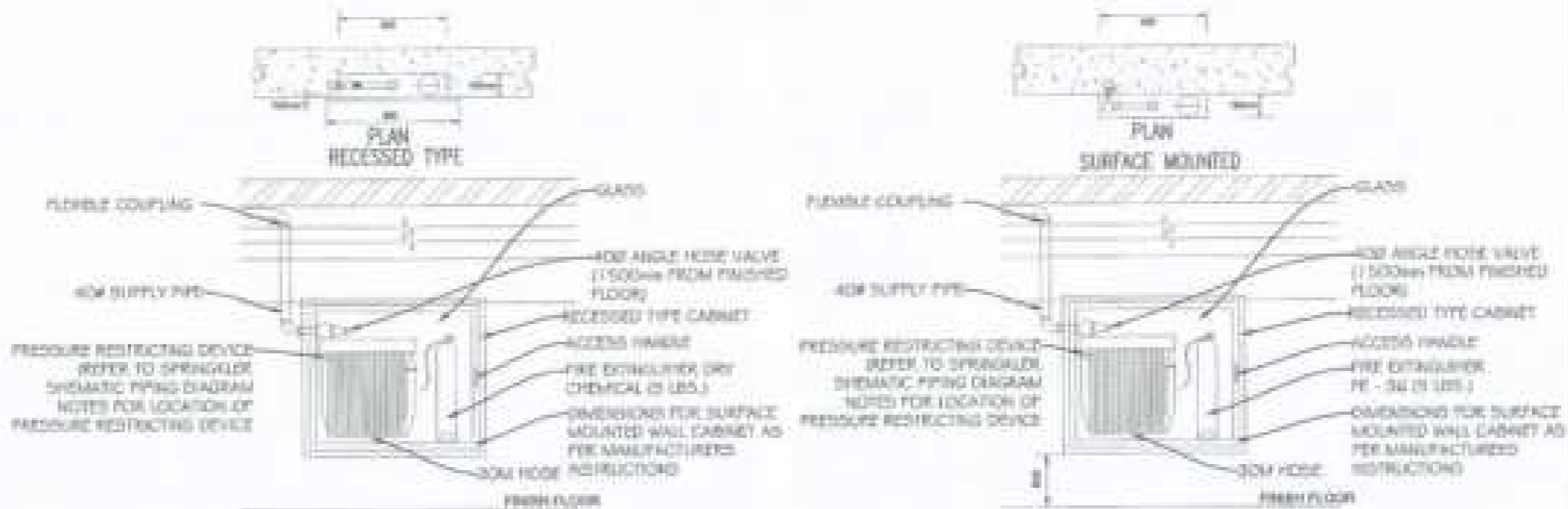
SCHEDULE OF PIPE SIZES

SIZE OF BRACKET	SIZE OF PIPE SLEEVES
1/2"	1/2"
3/4"	3/4"
1"	1"
1 1/4"	1 1/4"
1 1/2"	1 1/2"
2"	2"
2 1/2"	2 1/2"
3"	3"
3 1/2"	3 1/2"
4"	4"

- NOTE:**
- SLEEVES SHALL BE PROVIDED AROUND ALL PIPING EXCEPT THROUGH WALL, FLOOR, PLUMBING AND TRANSITION.
 - THE CLEARANCE BETWEEN THE PIPE SLEEVES SHALL BE FILLED WITH NON-COMBUSTIBLE FLEXIBLE MATERIAL SUCH AS MINERAL WOOL, FIBER GLASS OR GYPSUM.
 - MINIMUM CLEARANCE BETWEEN PIPE AND SLEEVES SHALL NOT BE LESS THAN 1/8" FOR THE CLEAR THROUGH JOINTS & MORE FOR PIPE SIZE 1/2" DOWN AND LARGER FLUSH SLEEVES SHALL BE EXTENDED AT LEAST 1" FROM ABOVE THE TOP OF THE BRACKET ORANGE.

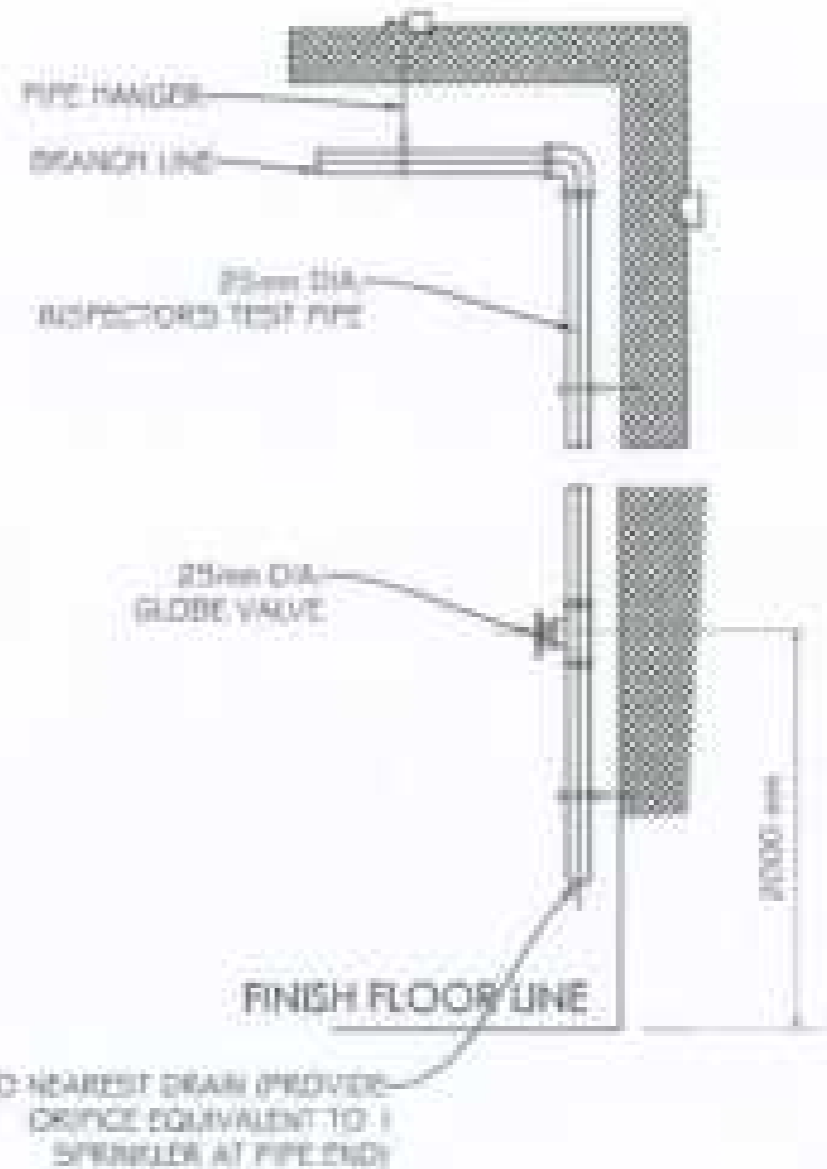
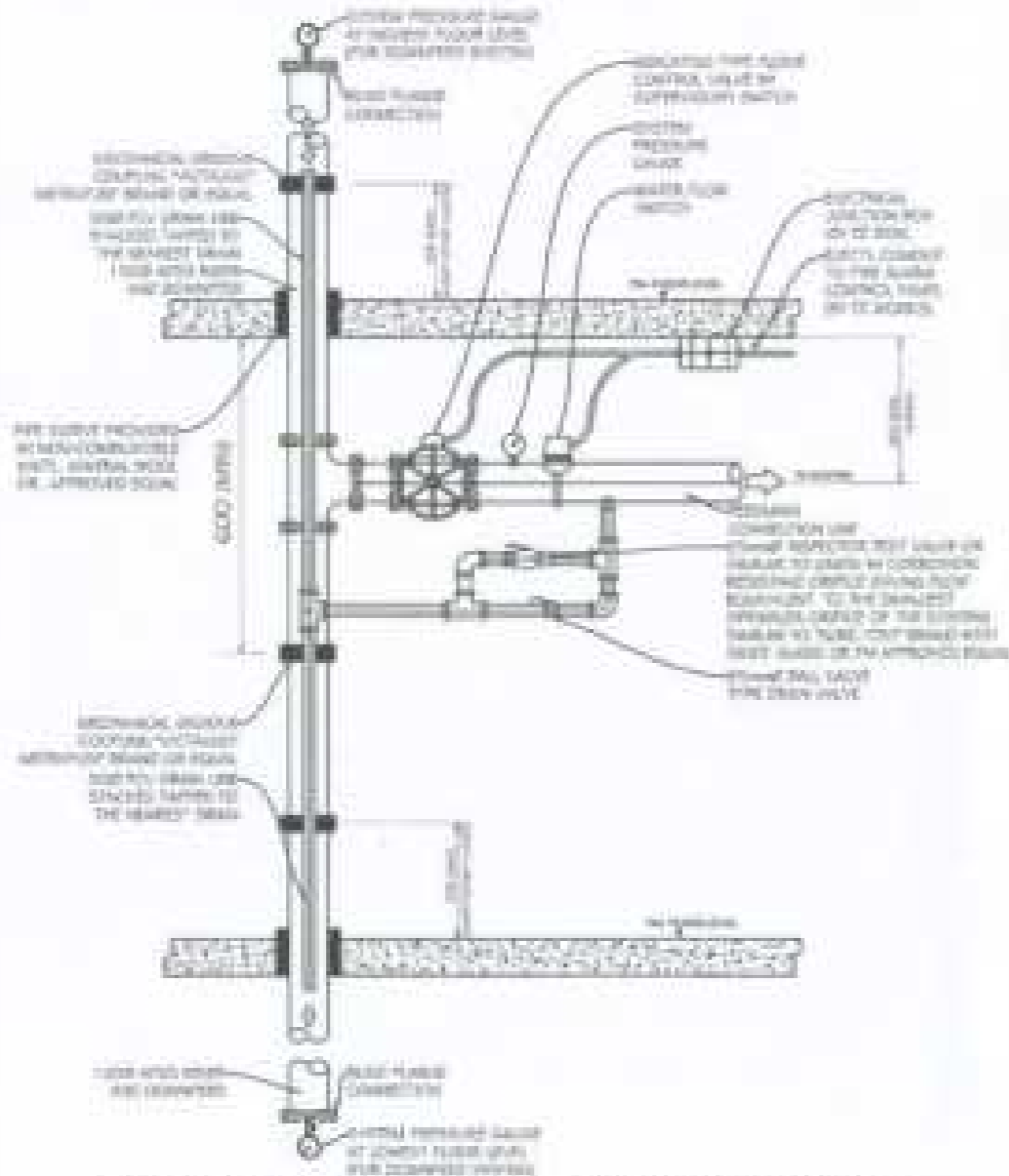
2 PIPE SLEEVES DETAILS
N.T.C.

DRAWN BY: BARBARA STEVE UNIVERSITY OFFICE OF PHYSICAL PLANT AND FACILITIES	DESIGNED BY: <i>[Signature]</i>	CHECKED BY: <i>[Signature]</i>	PROJECT TITLE: PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY	DATE: 01/20/08	PREPARED BY: CEB OPERATING	<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> F-11 </div>
	DATE: 01/20/08	PROJECT NO.:			SHEET / SET:	
APPROVED BY:	PROJECT MANAGER:	DATE:	SHEET NO.:			
DATE:	PROJECT MANAGER:	DATE:	SHEET NO.:			



I FIRE HOSE CABINET DETAILS

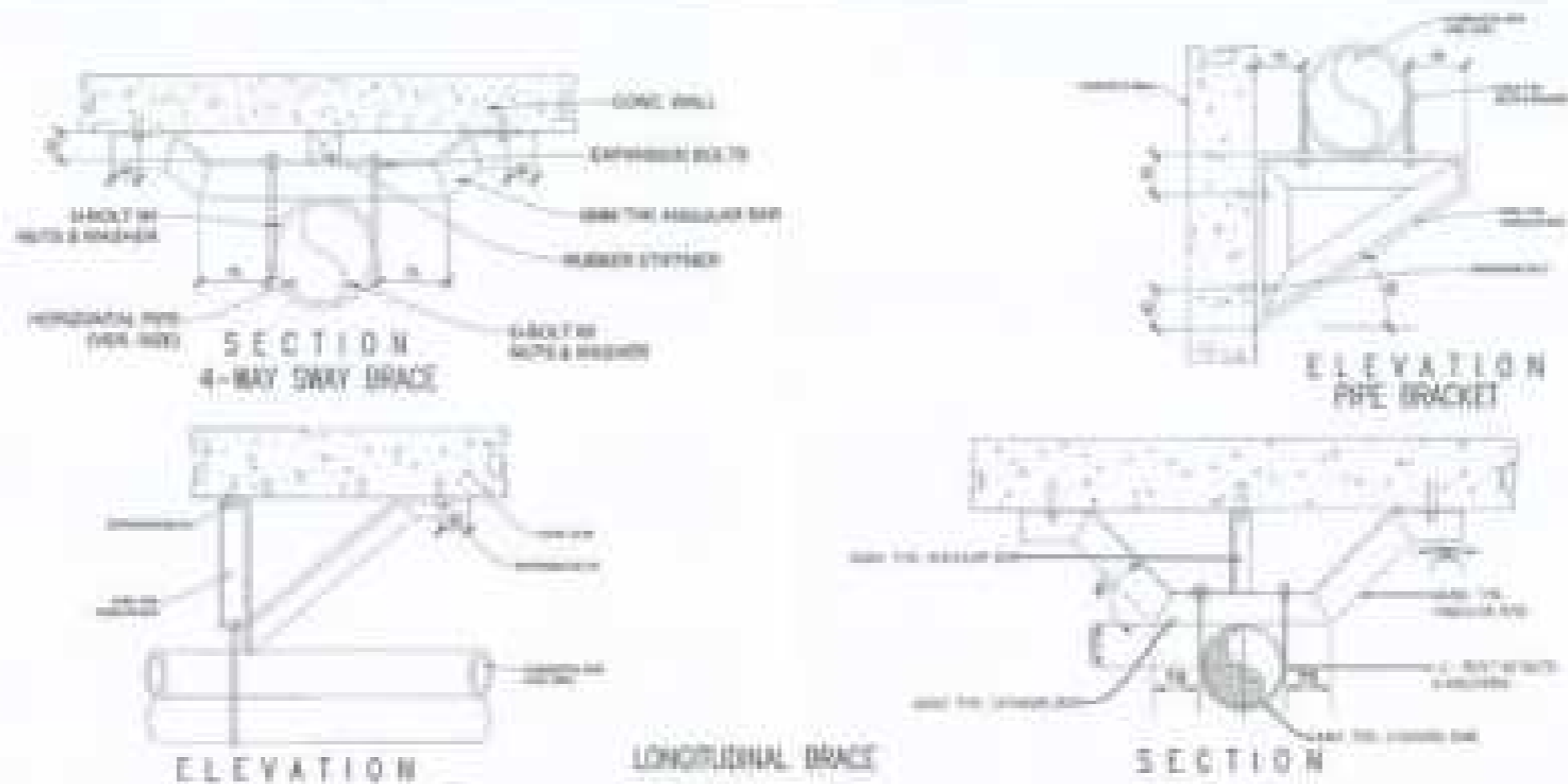
NUMBER OF:	DRAWN BY: <i>[Signature]</i>	CHECKED BY: <i>[Signature]</i>	PROJECT NO.:	SHEET NUMBER: 21 OF 20	DRAWN BY:	CHECKED BY:
BRUNNEN STATE UNIVERSITY	<i>[Signature]</i>	<i>[Signature]</i>	PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY		CED OPERATING:	<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> F-12 </div>
NOTICE OF PHYSICAL PLANT AND FACILITIES	DATE: 02/14/13	PROJECT:			SHEET NO.:	
		<i>[Signature]</i>			DATE:	



1 FLOOR CONTROL VALVE ASSEMBLY DETAILS

NORTH STATE UNIVERSITY OFFICE OF PHYSICAL PLANT AND FACILITIES	REVISION: <i>[Signature]</i> DATE: 08/24/2014	DRAWN BY: <i>[Signature]</i> CHECKED BY: <i>[Signature]</i>	PROJECT TITLE: PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY	SHEET NUMBER: 61 OF 68	DESIGNED BY: CAD OPERATOR
	PROJECT NO.: <i>[Blank]</i> DRAWING NO.: <i>[Blank]</i>	DATE:			CAD OPERATOR
	PROJECT NO.: <i>[Blank]</i> DRAWING NO.: <i>[Blank]</i>	DATE:			CAD OPERATOR

F-13



1 DETAILS OF SWAY BRACINGS

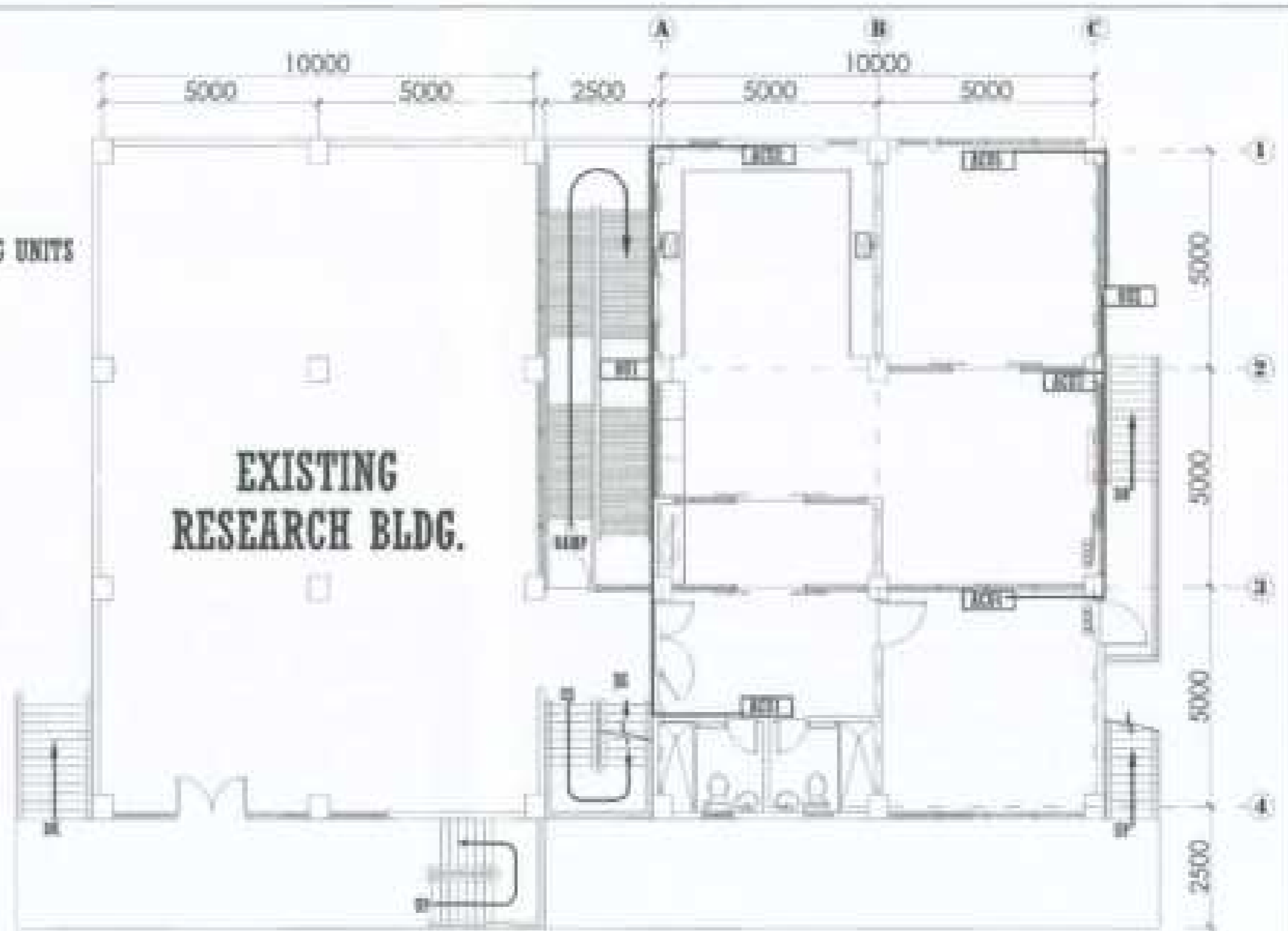


2 PENDENT SPRINKLER HEAD DETAILS

DESIGN BY: BERNARD STATE UNIVERSITY	DESIGN NO: <i>[Handwritten]</i>	DRAWN BY: <i>[Handwritten]</i>	REVISION NO: 1	ROOM NO: AL 1000	DRAWN BY: CLD OPERATOR
				OFFICE OF PHYSICAL PLANT AND FACILITIES	DATE: 12/21/2011
				DATE: 12/21/2011	PROJECT NO.:
				PROJECT: BERNARD STATE UNIVERSITY	DATE:

LEGEND:

-  - AIRCONDITIONING UNITS
-  - OUTDOOR UNITS



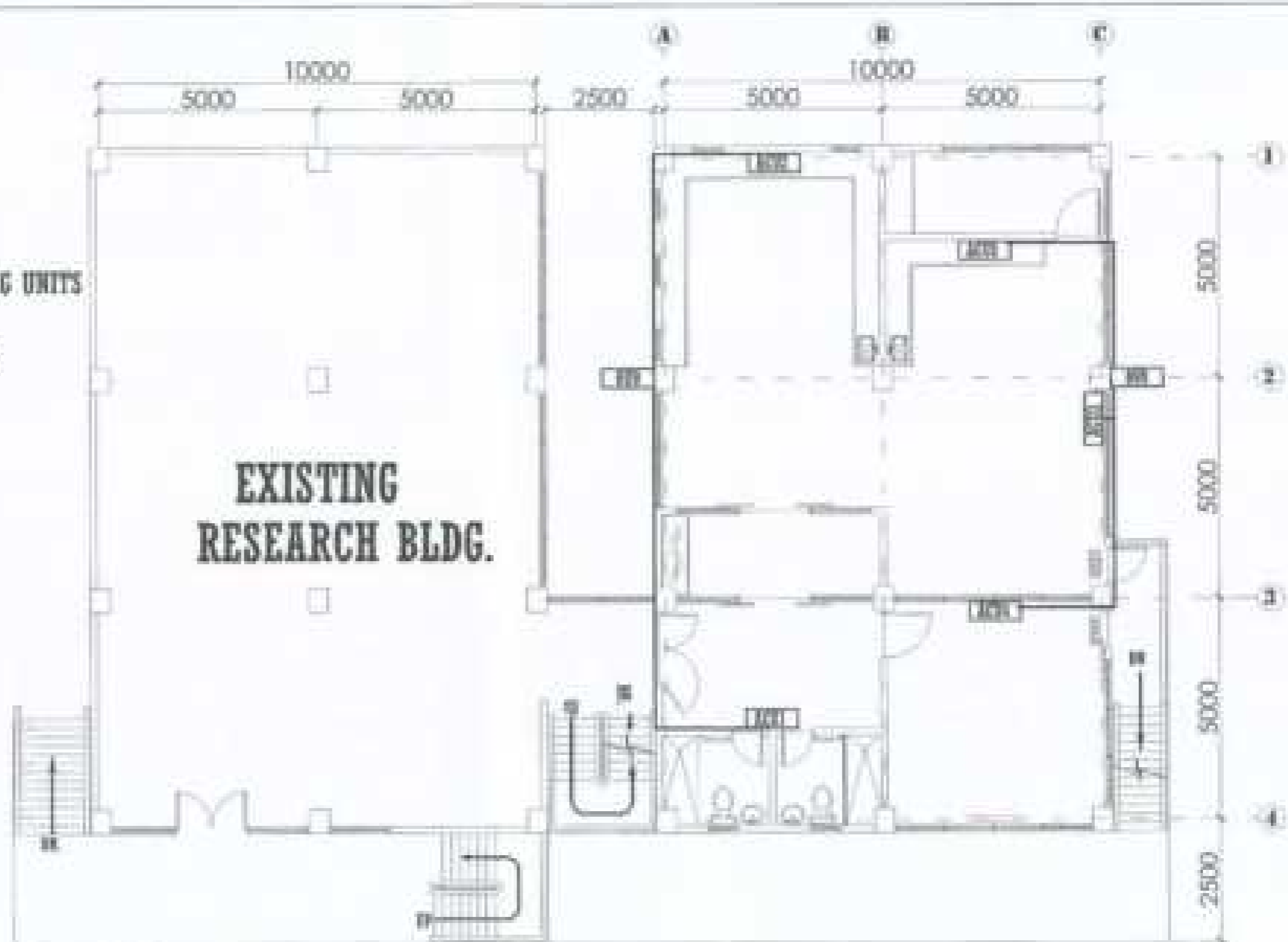
I SECOND FLOOR ACU AND OUTDOOR UNIT PLAN
 N.T.S.

PROJECT NO.	DESIGNED BY	CHECKED BY	PROJECT NO.	SCALE	DATE	SHEET NO.
BANGOR STATE UNIVERSITY	<i>[Signature]</i>	<i>[Signature]</i>	PROPOSED CONSTRUCTION OF	AS SHOWN	CEN HYDRAUC	M-1
OFFICE OF PHYSICAL PLANT AND FACILITIES	PROJECT NO. 3-351	SHEET NO.	BIOLOGY AND ANALYTICAL LABORATORY		BLDG	
		<i>[Signature]</i>	BANGOR STATE UNIVERSITY - ALL RIGHTS RESERVED		PH NO.	
					DATE	

LEGEND:

ACU - AIRCONDITIONING UNITS

OU - OUTDOOR UNITS



**EXISTING
RESEARCH BLDG.**

I THIRD FLOOR ACU AND OUTDOOR UNIT PLAN

M-2

NTE:

NUMBER 01	DRAWN BY: <i>[Signature]</i>	CHECKED BY: <i>[Signature]</i>	PROJECT TITLE:	SHEET NUMBER:	SHEET TOTAL:	DATE:
KENTLAND STATE UNIVERSITY OFFICE OF PHYSICAL PLANT AND FACILITIES	PROJECT NO.: <i>[Handwritten]</i> DATE: <i>[Handwritten]</i>	DRAWN BY: <i>[Signature]</i> CHECKED BY: <i>[Signature]</i>	PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY	SHEET NUMBER:	SHEET TOTAL:	DATE:

M-2

SECOND FLOOR											
RUA/ RUA LEVEL	LEND	INDOOR UNIT				OUTDOOR UNIT					RUA (TOTAL LOAD)
		HP (Tons)	COOLING CAPACITY (KCAL)	QTY	TYPE	TYPE	HP (Tons)	QTY	ELECTRICAL REQUIREMENT	TYPE	
LAB	ACR	2.00	2000-2000	1	WALL MOUNTED	OU1	2.50	1			15.00 kVA
LABORATORY AREA	ACR	2.00	2000-2000	1	WALL MOUNTED						
LABORATORY AREA	ACR	3.00	3000-3000	1	WALL MOUNTED	OU2	5.00	1	20-240 WAC 200V 1Phase 50C	Refrigerant (R22) (kg) 10000 - 10000	
OFFICE	ACR	2.00	2000-2000	1	WALL MOUNTED						
OFFICE AREA	ACR	0.50	5000-5000	1	WALL MOUNTED						

OU - OUTDOOR UNIT
IU - INDOOR UNIT



THIRD FLOOR											
RUA/ RUA LEVEL	LEND	INDOOR UNIT				OUTDOOR UNIT					RUA (TOTAL LOAD)
		HP (Tons)	COOLING CAPACITY (KCAL)	QTY	TYPE	TYPE	HP (Tons)	QTY	ELECTRICAL REQUIREMENT	TYPE	
LAB	ACR	2.00	2000-2000	1	WALL MOUNTED	OU1	2.50	1			15.00 kVA
LABORATORY AREA	ACR	2.00	2000-2000	1	WALL MOUNTED						
LABORATORY AREA	ACR	3.00	3000-3000	1	WALL MOUNTED	OU2	5.00	1	20-240 WAC 200V 1Phase 50C	Refrigerant (R22) (kg) 10000 - 10000	
OFFICE AREA	ACR	2.00	2000-2000	1	WALL MOUNTED						
LABORATORY AREA	ACR	0.50	5000-5000	1	WALL MOUNTED						

OU - OUTDOOR UNIT
IU - INDOOR UNIT



AIRCONDITION/ OUTDOOR UNIT DETAILS

HTL

NUMBER OF REVISIONS APPROVED BY: DATE:	 ENGINEER: DATE:	CHECKED BY:  CHECKER: DATE:	PROJECT TITLE: PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY CLIENT: BERGAMOTI UNIVERSITY	PROJECT NO.: AS 12000	SHEET NO.: EXP SYSTEMS DATE:	SHEET NO.: M-3
--	--	---	---	---------------------------------	---	--------------------------

SECOND FLOOR											
AREA/ ROOM NUMBER	ZONE	INDOOR UNIT				OUTDOOR UNIT					TOTAL LOADING CAPACITY
		HP (Tons)	COOLING CAPACITY (BTU/H)	SP	TYPE	ZONE	HP (Tons)	BTU	SEASON EFFICIENCY	TYPE	
LAB	AC1	2.00	2000- 2000	1	WALL MOUNTED	OU1	2.00	1			
LABORATORY AREA	AC2	2.00	2000- 2000	1	WALL MOUNTED						
LABORATORY AREA	AC3	3.00	3000- 3000	1	WALL MOUNTED	OU2	5.00	1	20-20% WGL 2000-17000 WGL	Variable Outdoor Temp Control - Yes	10000 w/h
OFFICE	AC4	2.00	2000- 2000	1	WALL MOUNTED						
STORAGE ROOM	AC5	0.01	1000- 1000	1	WALL MOUNTED						

AC1 - RESEARCHING UNIT
OU - OUTDOOR UNIT

THIRD FLOOR											
AREA/ ROOM NUMBER	ZONE	INDOOR UNIT				OUTDOOR UNIT					TOTAL LOADING CAPACITY
		HP (Tons)	COOLING CAPACITY (BTU/H)	SP	TYPE	ZONE	HP (Tons)	BTU	SEASON EFFICIENCY	TYPE	
LAB	AC1	2.00	2000- 2000	1	WALL MOUNTED	OU1	2.00	1			
LABORATORY AREA	AC2	2.00	2000- 2000	1	WALL MOUNTED						
LABORATORY AREA	AC3	3.00	3000- 3000	1	WALL MOUNTED	OU2	5.00	1	20-20% WGL 2000-17000 WGL	Variable Outdoor Temp Control - Yes	10000 w/h
OFFICE ROOM	AC4	2.00	2000- 2000	1	WALL MOUNTED						
LABORATORY AREA	AC5	0.01	1000- 1000	1	WALL MOUNTED						

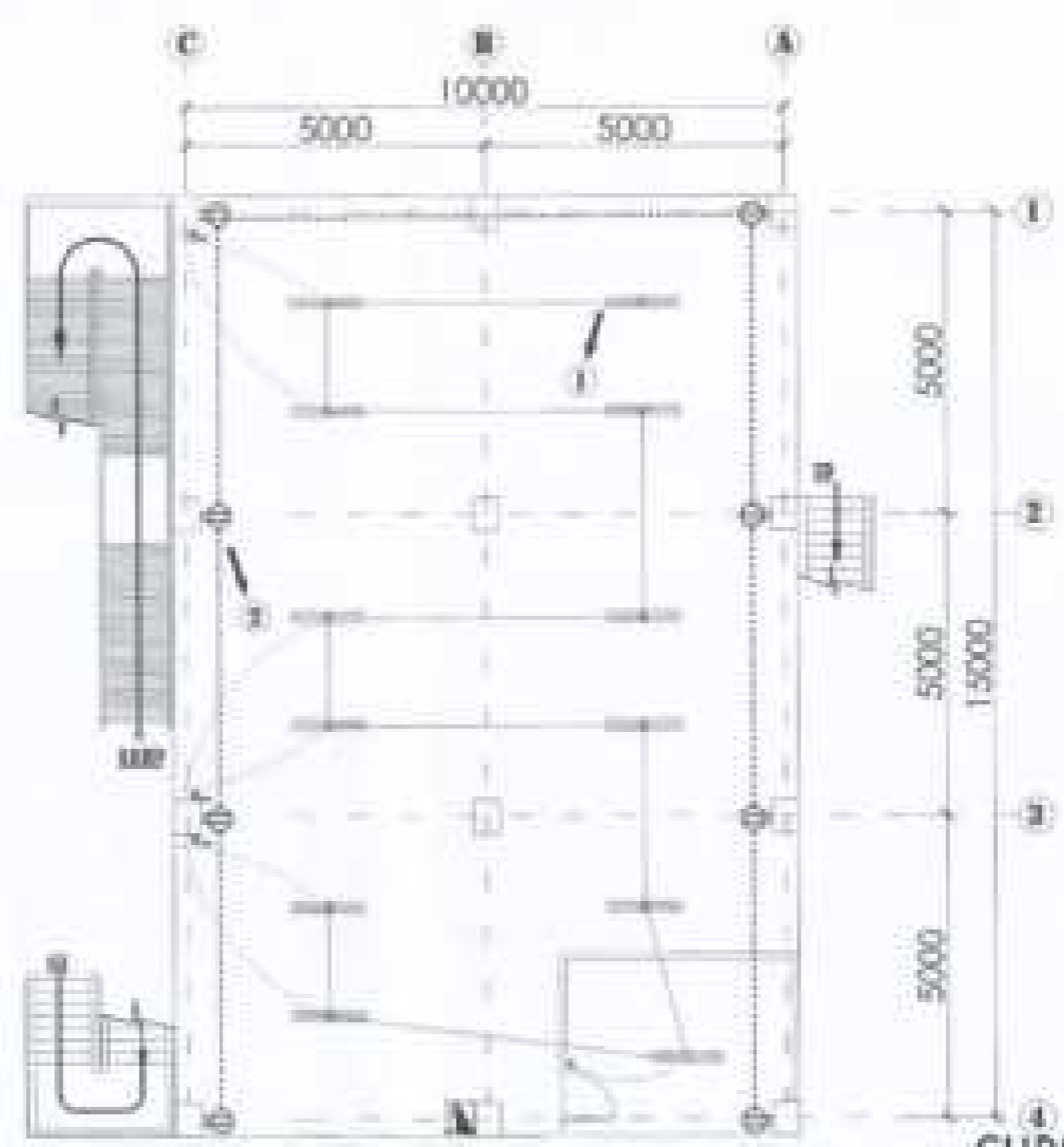
AC1 - RESEARCHING UNIT
OU - OUTDOOR UNIT



AIRCONDITION/ OUTDOOR UNIT DETAILS

HTL

PROJECT NO: UNIVERSITY OF CALIFORNIA OFFICE OF PHYSICAL PLANT AND FACILITIES	REVISIONS: DATE: 1/11/11	DRAWN BY: CHECKED BY: 	PROJECT TITLE: PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY	SHEET NUMBER: AL 0000	NUMBER OF SHEETS: 11	DATE:
				CIO OPERATOR:		
				ELEC:		
				DATE:		



1
SCALE

**GROUND FLOOR LIGHTING
& C. O. LAYOUT PLAN**

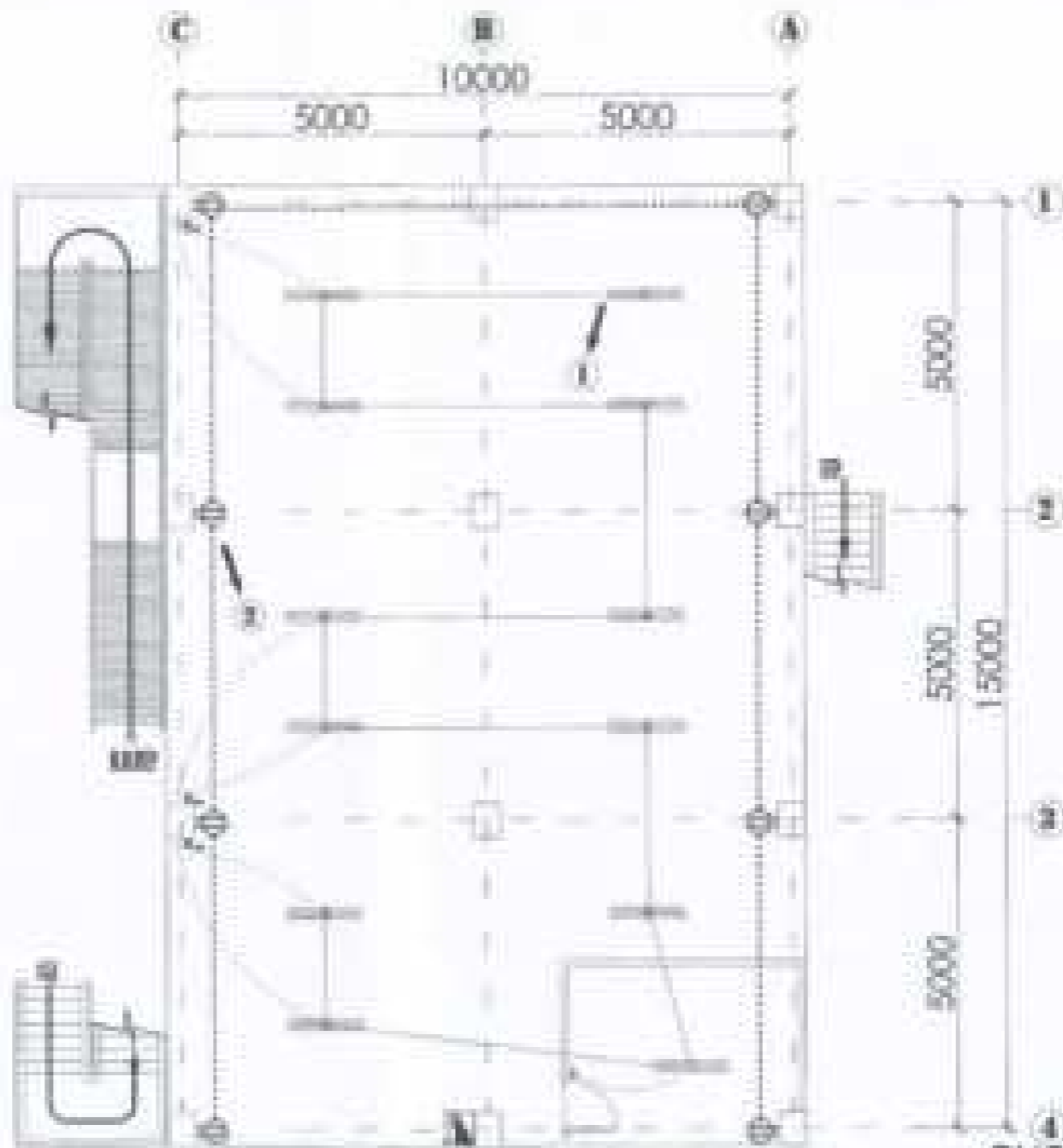
1:100

CHRISTIAN M. MUTYA
 PROFESSIONAL ELECTRICAL ENGINEER
 PRC NO. 4188 VALIDITY 01/03/2004
 PIR NO. 148315
 ISSUED ON 05/21 AT Zamboanga
 TIN NO. +63777815

DESIGNED BY	DATE	DESIGNED BY	DATE	CHECKED BY	DATE	APP. NO.
<u>BERNARD ESTER UNIVERSITY</u>				<u>BY ENGINEER</u>		<u>CAD OPERATOR</u>
<u>OFFICE OF PHYSICAL PLANT AND FACILITIES</u>						<u>DATE</u>
						<u>DATE</u>

**PROPOSED CONSTRUCTION OF
BIOLOGY AND ANALYTICAL LABORATORY**

E-1



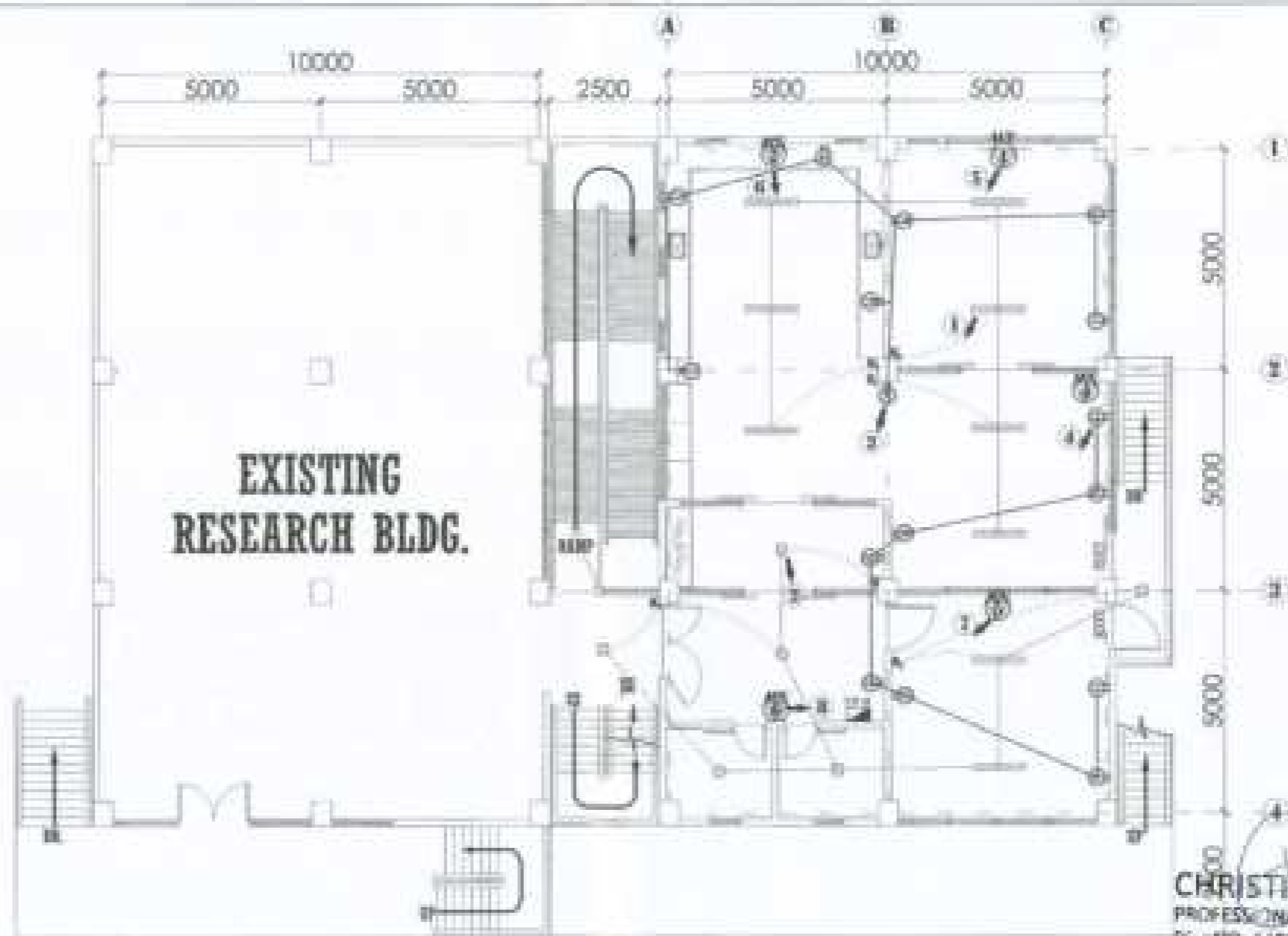
1
E-1 (E-1) SCALE

GROUND FLOOR LIGHTING & C. O. LAYOUT PLAN

1:100

CHRISTIAN M. MUTYA
 PROFESSIONAL ELECTRICAL ENGINEER
 PRC NO. 4188 VALIDITY 01/03/2008
 PIR NO. 18835
 ISSUED ON 08/21 AT Zamboanga
 TIN NO. 91877816

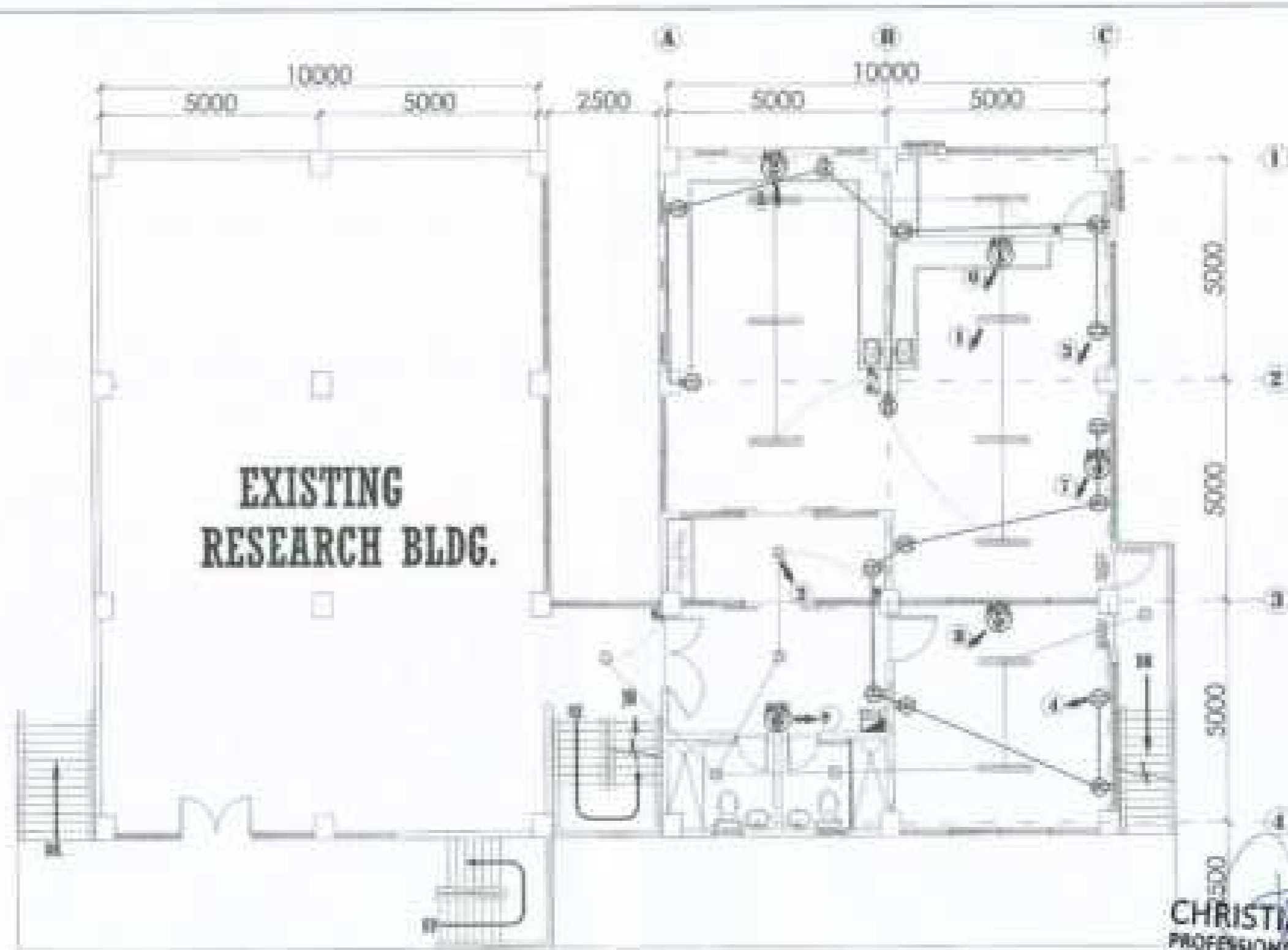
DESIGNED BY	DATE	DRAWN BY	PROJECT TITLE	CHECKED BY	PROJECT NO.	SHEET NO.
<u>BERNARD ESTAC OROZCO</u>			PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY	<u>EE OROZCO</u>		E-1
NOTES OF PHYSICAL PLANT AND FACILITIES	PROJECT NO. _____	DATE _____		DATE _____	CAD OPERATOR	
	DATE _____	DATE _____		DATE _____		
	DATE _____	DATE _____		DATE _____		



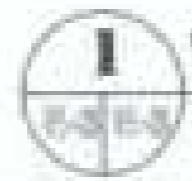
I SECOND FLOOR LIGHTING & C.O LAYOUT PLAN
 E-2/E-2 SCALE

CHRISTIAN M. MUTYA
 PROFESSIONAL ELECTRICAL ENGINEER
 P.E. NO. 4165 VALIDITY 03/03/2024
 P.Y. NO. 18816
 ISSUED ON June AT Manila
 TIN NO. 7187/1817

PROJECT NO.	DATE	PROJECT NAME	PROJECT LOCATION	PROJECT OWNER	PROJECT NO.	DATE
001	01/2024	PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY	UNIVERSITY OF CALICAN, CALICAN CITY, SOUTHERN MINDANAO PROVINCE	UNIVERSITY OF CALICAN	001	01/2024
UNIVERSITY OF CALICAN OFFICE OF PHYSICAL PLANT AND FACILITIES			 PROJECT ENGINEER		CAR NUMBER: BLSE: TIN NO.: SITE:	



**EXISTING
RESEARCH BLDG.**



1 THIRD FLOOR LIGHTING & C.O LAYOUT PLAN

SCALE

1:100


CHRISTIAN M. MUTYA
 PROFESSIONAL ELECTRICAL ENGINEER
 PRC NO. 4366 VALIDITY 03/03/2026
 PTR NO. 49324
 ISSUED ON 08/01 AT 10:55 AM
 TN NO. 91877816



DESIGNED BY VENKAT SURESH SURESH	DATE 08/01/2024	CHECKED BY <i>[Signature]</i>	PROJECT TITLE PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY	SCALE 1:100	NO. OF SHEETS 1
APPROVED BY <i>[Signature]</i>	DATE 08/01/2024	PROJECT NO.	CLIENT SRINIVASA SIVA SURESH	DATE	NO. OF SHEETS
OFFICE OF PHYSICAL PLANT AND FACILITIES SRINIVASA SIVA SURESH UNIVERSITY SRINIVASA SIVA SURESH UNIVERSITY SRINIVASA SIVA SURESH UNIVERSITY					SHEET NO. E-3

PP2 SCHEDULE OF LOADS

CIRCUIT NUMBER	LOAD DESCRIPTION	VA	LOADS				WIRE/CONDUCTOR					RACEWAY			
			W	RFD	WFC	RAC	WT	WT	F	TYPE	SIZE (sq. in.)	SIZE (mm)	TYPE	LENGTH (ft)	
1	LIGHTING	200				1.20	20	40	3	TRXN	1.8 x 3	20	18	PVC	
2	EMERGENCY LIGHT	25			4.1204		20	40	3	TRXN	1.8 x 3	20	18	PVC	
3	C-01	1500		1.20			20	40	3	TRXN	1.8 x 3	20	18	PVC	
4	C-02	1500		1.40			20	40	3	TRXN	1.8 x 3	20	18	PVC	
5	ACU 1 by (product)	1500			5.0		20	40	3	TRXN	1.8 x 3	20	18	PVC	
6	ACU 2 by (product)	1500			1.40		20	40	3	TRXN	1.8 x 3	20	18	PVC	
7	ACU 3 by (product)	1500			1.40		20	40	3	TRXN	1.8 x 3	20	18	PVC	
8	ACU 4 by (product)	2700			12.71		20	40	3	TRXN	1.8 x 3	20	18	PVC	
9	ACU 5 by (product)	2700		12.71			20	40	3	TRXN	1.8 x 3	20	18	PVC	
10	ACU 6 by (product)	3311		16.80			20	40	3	TRXN	1.8 x 3	20	18	PVC	
11	ACU 7 by (product)	4000			12.38		20	40	3	TRXN	1.8 x 3	20	18	PVC	
12	SPARE	2000			1.40		20	40	3	TRXN					
13	SPARE	2000			1.40		20	40	3	TRXN					
14	SPARE						20	40	3	TRXN					
TOTAL		25,904.00		28.25	28.41	28.29									

NUMBER OF CIRCUITS: _____ NUMBER OF PANELS: _____ VOLTAGE: _____ WIRE SIZE: _____ W = 1.20 RFD = 4.1204 WFC = 1.20 RAC = 1.40 W = 12.71 RFD = 16.80 WFC = 12.38 TOTAL WFC = 28.41	MAIN RACEWAY: _____ TYPE: _____ CALCULATION: $I_{total} = (1.20 + 4.1204 + 1.20 + 1.40 + 12.71 + 16.80 + 12.38) + (0 + 0 + 0)$ $I_{total} = 41.6304$ $I_{total} = 28.41$
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CHRISTIAN M. MUTYA
 PROFESSIONAL ELECTRICAL ENGINEER
 PRC NO. 4266 VALIDITY 08/03/2028
 PTR NO. 14075
 ISSUED ON 18/01 AT 10:00 AM
 TIN NO. 918777816


DESIGN BY: BERNARD STATE UNIVERSITY OFFICE OF PHYSICAL PLANT AND FACILITIES	DATE: _____ DRAWN BY: _____ CHECKED BY: _____ APPROVED BY: _____	PROJECT NO.: _____  PROJECT TITLE: PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY	SHEET NO.: _____ TOTAL SHEETS: _____	DESIGNER: EL JOHNS	CHECKED BY: CEB OPERATOR SCALE: JOB NO.: DATE:	
--	---	--	---	------------------------------	---	---

PP3 SCHEDULE OF LOADS

CIRCUIT NUMBER	LOAD DESCRIPTION	VA	LOAD				BY PHYSICAL CONDUCTOR					RACEWAY			
			3Ø	2Ø	1Ø	WAC	A1	A2	P	TYPE	SIZE (mm ²)	SIZE (inches)	TYPE	LENGTH (m)	
1	LIGHTING	200				1.21	3Ø	Ø	2	TRNH	10 x 2	10	Ø	PVC	
2	EMERGENCY LIGHT	25			0.1254		3Ø	Ø	2	TRNH	10 x 2	10	Ø	PVC	
3	CO 1	1000		1.0			3Ø	Ø	2	TRNH	10 x 2	10	Ø	PVC	
4	CO 2	1000		1.0			3Ø	Ø	2	TRNH	10 x 2	10	Ø	PVC	
5	ACU 1 (2000W)	1000			0.41		3Ø	Ø	2	TRNH	10 x 2	10	Ø	PVC	
6	ACU 2 (2000W)	1000			0.41		3Ø	Ø	2	TRNH	10 x 2	10	Ø	PVC	
7	ACU 3 (2000W)	1000			0.41		3Ø	Ø	2	TRNH	10 x 2	10	Ø	PVC	
8	ACU 4 (2000W)	2700			0.11		3Ø	Ø	2	TRNH	10 x 2	10	Ø	PVC	
9	ACU 5 (2000W)	2700		0.11			3Ø	Ø	2	TRNH	10 x 2	10	Ø	PVC	
10	ACU 6 (2000W)	2000		0.00			3Ø	Ø	2	TRNH	10 x 2	10	Ø	PVC	
11	ACU 7 (2000W)	4000			0.10		Ø	Ø	2	TRNH	10 x 2	10	Ø	PVC	
12	SPARE	2000				0.00	Ø	Ø	2	TRNH					
13	SPARE	2000				0.00			2	TRNH					
14	SPARE								2	TRNH					
TOTAL		21000	0.00	0.10	0.20										

DESIGN SYSTEM : _____	DATE : _____	REVISION : _____
DESIGNER : _____	BY : _____	ISSUE : _____
VOLTAJE : _____	BY : _____	REVISION : _____
WIRE SIZE : _____	BY : _____	REVISION : _____
Ø = 100 mm ²	Ø = 100 mm ²	
Ø = 100 mm ²	Ø = 100 mm ²	
Ø = 100 mm ²	Ø = 100 mm ²	
Ø = 100 mm ²	Ø = 100 mm ²	
Ø = 100 mm ²	Ø = 100 mm ²	


CHRISTIAN M. MUTYA
 PROFESSIONAL ELECTRICAL ENGINEER
 PRC NO. 4266 VALIDITY 09/03/2026
 PTR NO. 14111
 ISSUED ON _____ AT _____
 TIN NO. 918777815

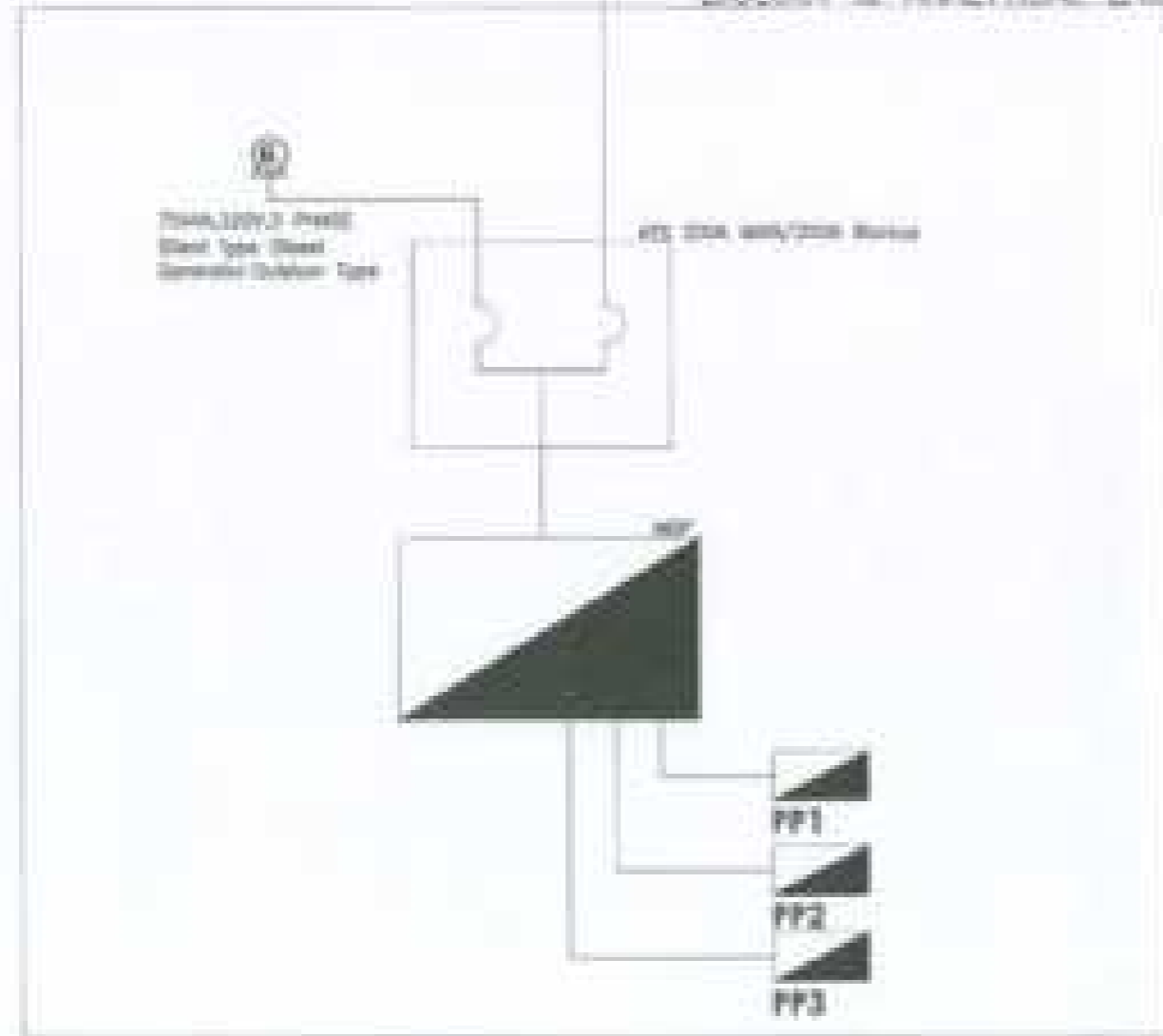
BRUNYAN STATE UNIVERSITY OFFICE OF PHYSICAL PLANT AND FACILITIES	 _____ _____	PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY _____	_____ _____ _____
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E-6

TELCO 3# 13.2V 60Hz INCOMING



BIOLOGY & ANALYTICAL LAB



ELECTRICAL NOTES :

- All electrical work shall be done in accordance with provisions of the latest edition of the NEC, National Code Book, the rules and regulations of LUPA and various applicable codes and standards of safety and health of LUPA, and ILO.
- The electrical layout of the building shall be done in accordance with the latest edition of the NEC.
- The installation shall be done in accordance with the following:
 - Work shall comply with the applicable provisions of the NEC.
 - Follow the applicable code, unless otherwise specified in the contract.
- All work to be done shall be done in accordance with the provisions of the latest edition of the NEC, National Code Book, the rules and regulations of LUPA, and ILO.
- The electrical layout shall be done in accordance with the provisions of the latest edition of the NEC, National Code Book, the rules and regulations of LUPA, and ILO.
- The electrical layout shall be done in accordance with the provisions of the latest edition of the NEC, National Code Book, the rules and regulations of LUPA, and ILO.
- The electrical layout shall be done in accordance with the provisions of the latest edition of the NEC, National Code Book, the rules and regulations of LUPA, and ILO.
- The electrical layout shall be done in accordance with the provisions of the latest edition of the NEC, National Code Book, the rules and regulations of LUPA, and ILO.
- The electrical layout shall be done in accordance with the provisions of the latest edition of the NEC, National Code Book, the rules and regulations of LUPA, and ILO.

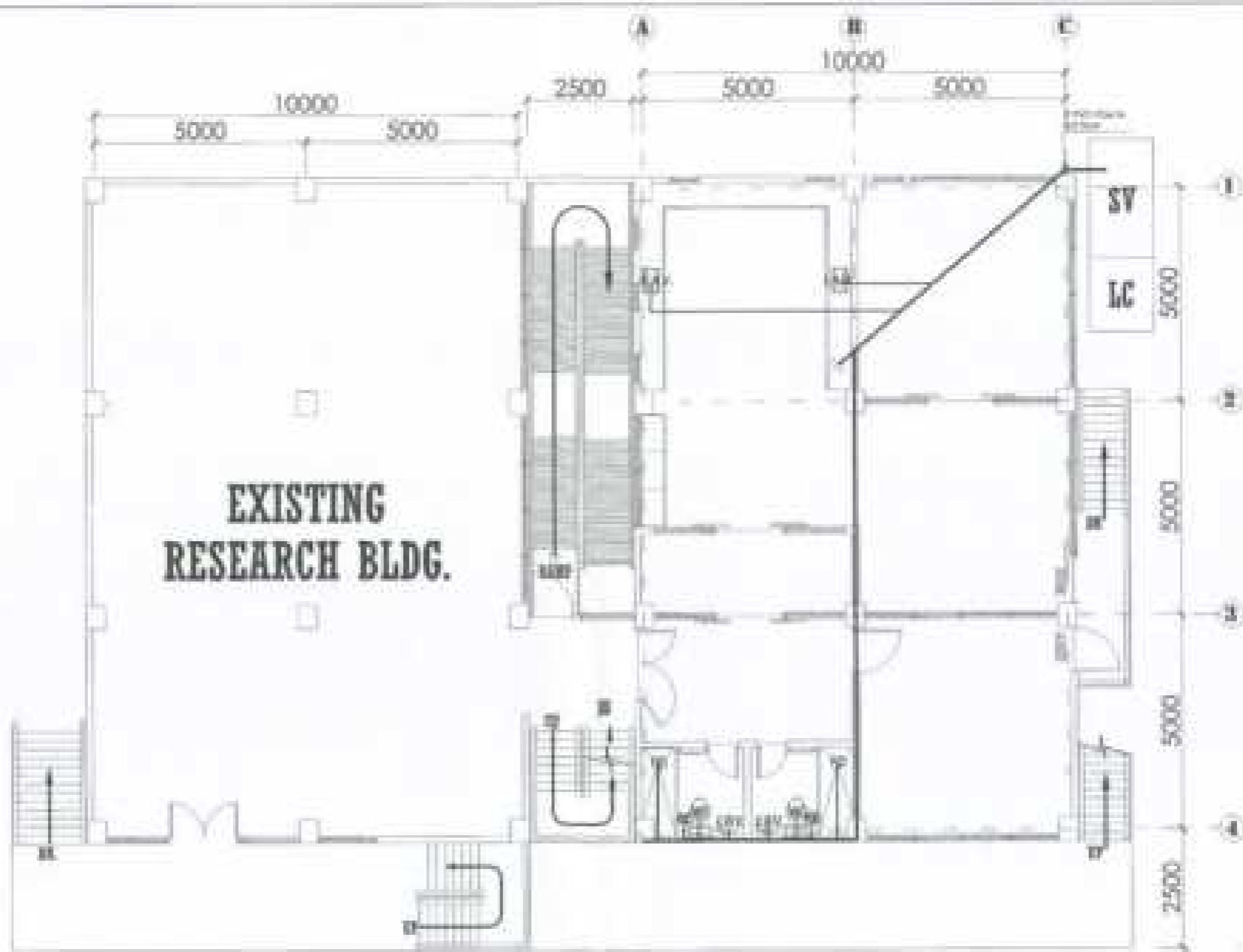
LEGEND:

- CEILING LIGHT
- FLOOR LIGHT
- SUPPLY CONVENIENCE OUTLET
- CIRCUIT BREAKER
- SINGLE SWITCH IN ONE PHASE RECEIVING PAIRS OF CONDUCTORS
- DOUBLE SWITCH IN ONE PHASE RECEIVING PAIRS OF CONDUCTORS
- TRIPLE SWITCH IN ONE PHASE RECEIVING PAIRS OF CONDUCTORS
- LIGHTING AND POWER PANEL
- CIRCUIT HOMERUN
- SERVICE ENTRANCE
- FLUORESCENT LAMP LOCATED IN THE MAIN PART OF CEILING
- ALL CONDITIONS NOT MEETING CONDITIONS
- CALCULATOR METER
- LIGHTING OUTLET RACEWAY
- CONVENIENCE OUTLET RACEWAY
- SWITCH RACEWAY

CHRISTIAN M. MUTYA
 PROFESSIONAL ELECTRICAL ENGINEER
 PRC NO. 4266 VALIDITY 03/03/2021
 PTR NO. 143119
 ISSUED ON July 14 AT Manila, Philippines
 TIN NO. 918777816

PROJECT NO.	DATE	DESIGNER	DATE	SCALE	NO.
BRUNNEN STATE UNIVERSITY				AS SHOWN	
OFFICE OF PHYSICAL PLANT AND FACILITIES		DATE		BY	NO.
				DATE	NO.
PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY					
<small>APPROVED FOR CONSTRUCTION BY THE UNIVERSITY ENGINEER</small>					
				DATE	NO.
				DATE	NO.

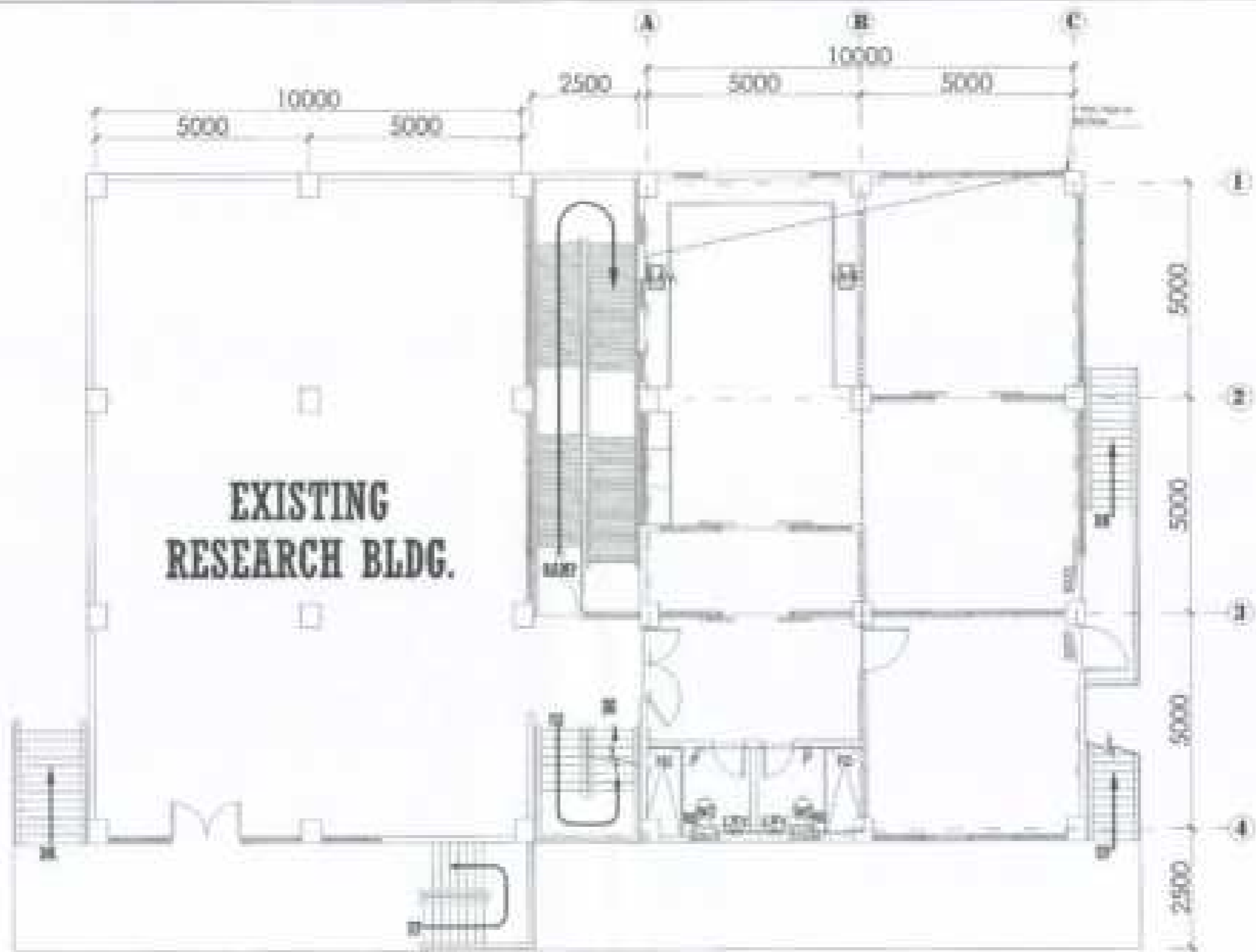
E-7



**EXISTING
RESEARCH BLDG.**

I SECOND FLOOR PLUMBING LAYOUT PLAN

ISSUED BY:	DATE:	ISSUED BY:	PROJECT NO.:	ISSUED BY:	ISSUED BY:	ISSUED BY:
BERKLEY STATE UNIVERSITY	RAYMOND F. FADY	<i>[Signature]</i>	PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY	EL SHAW	CRD OPERATOR	P-1
OFFICE OF PHYSICAL PLANT AND FACILITIES	<i>[Signature]</i>	<i>[Signature]</i>			DATE:	

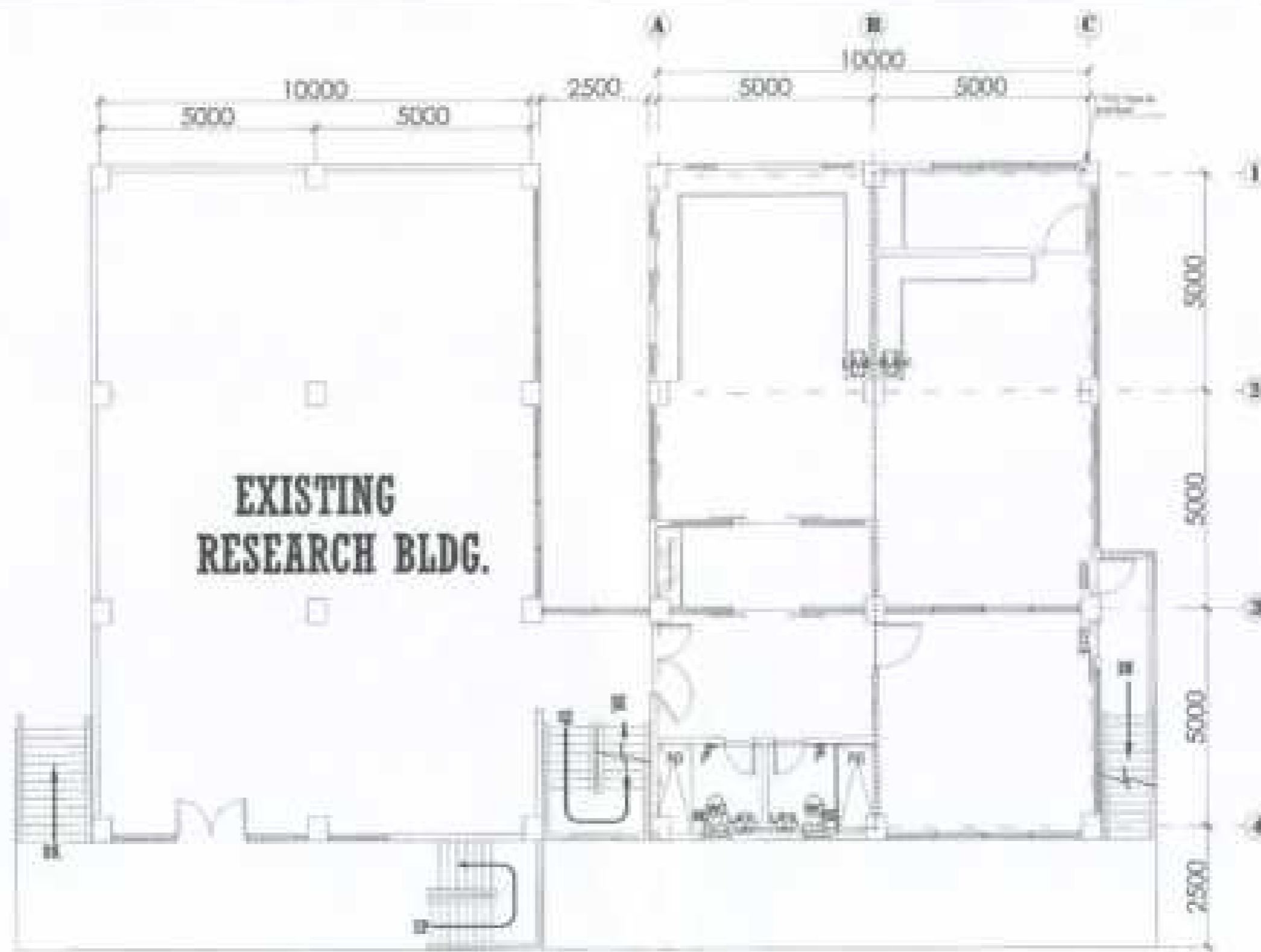


**EXISTING
RESEARCH BLDG.**





I SECOND FLOOR WATER LAYOUT PLAN

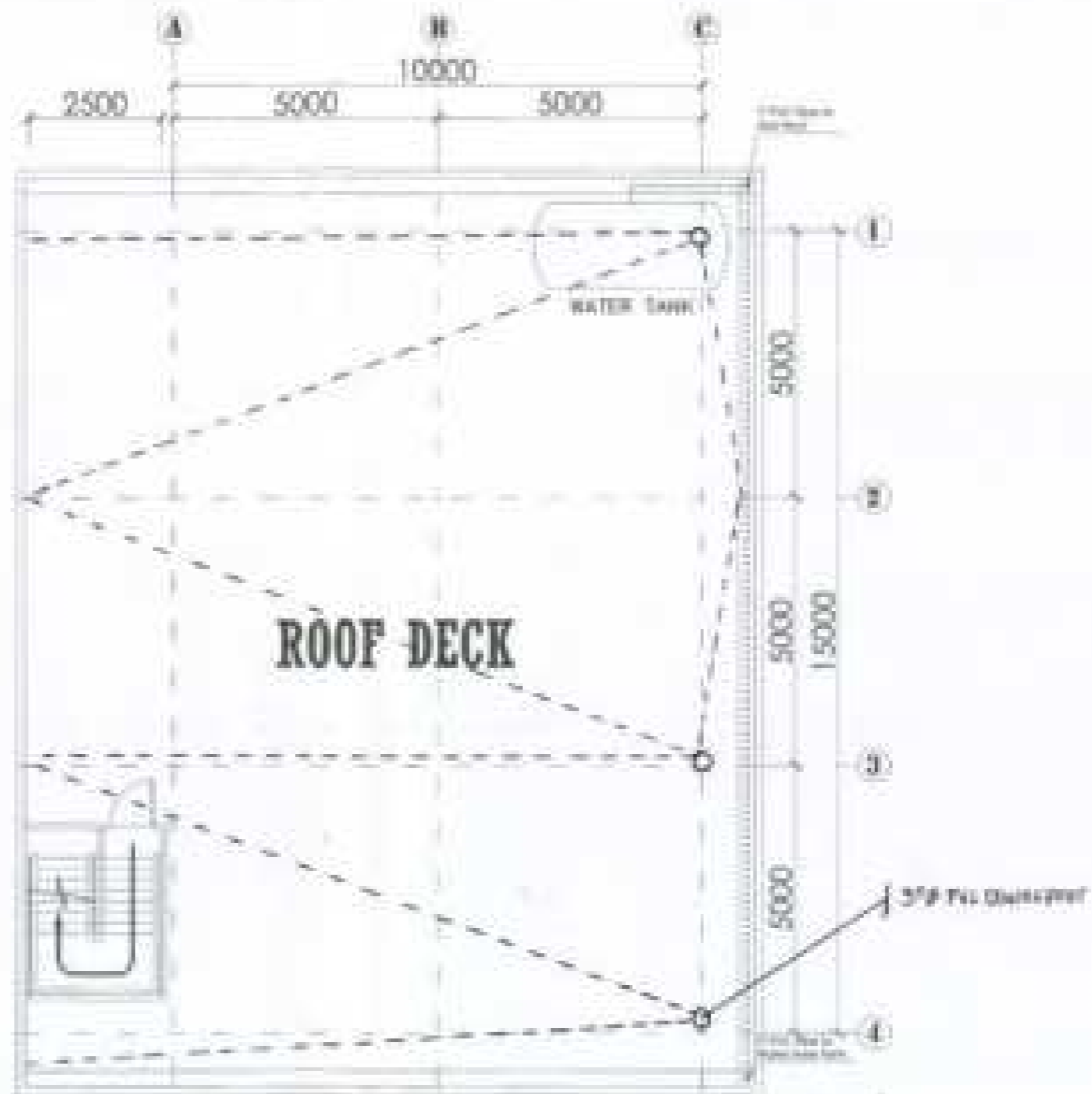


PROJECT NO. 1000000000	SHEET NO. 1000000000	DRAWN BY [Signature]	CHECKED BY [Signature]	DATE 12/18/11	SHEET NO. 1000000000	SHEET NO. 1000000000
UNIVERSITY OF MISSISSIPPI OFFICE OF PHYSICAL PLANT AND FACILITIES		PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY		[Signature] PROJECT MANAGER	CAD OPERATOR DATE 12/18/11	P-4



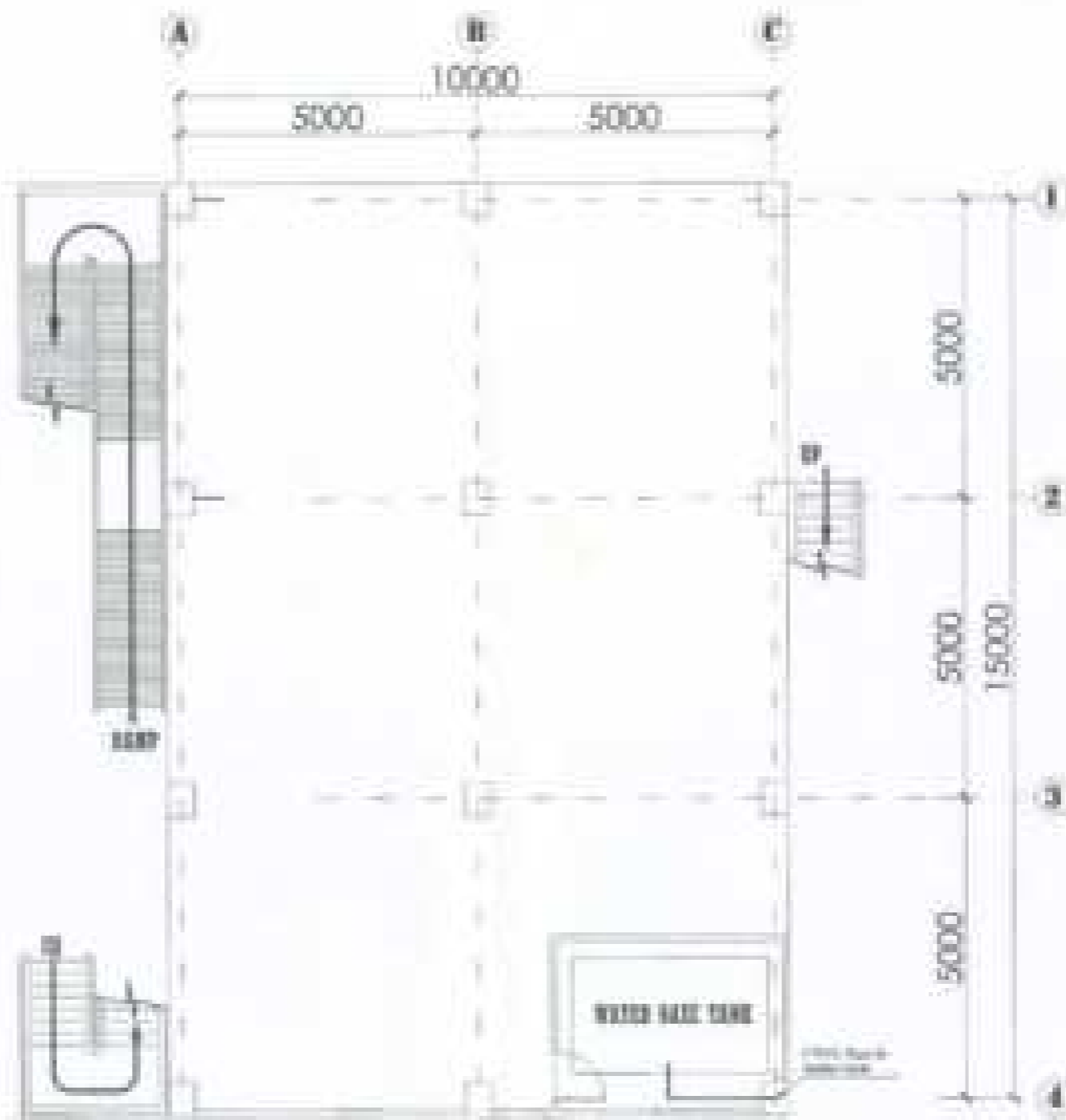
I THIRD FLOOR WATER LAYOUT PLAN

PROJECT #	DATE PLOTTED	SCALE	SHEET NO.	SHEET TOTAL	DESIGNED BY	CHECKED BY
HONOLULU STATE UNIVERSITY	 RAYMOND F. FODOR ARCHITECT 1115 KALANANAKU AVE., SUITE 200 HONOLULU, HI 96813	 ARCHITECT	PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY	ALL SHEETS	CAD OPERATOR	
OFFICE OF FACILITIES PLANNING AND FACILITIES	1115 KALANANAKU AVE., SUITE 200 HONOLULU, HI 96813	 ARCHITECT	1115 KALANANAKU AVE., SUITE 200 HONOLULU, HI 96813		DATE:	



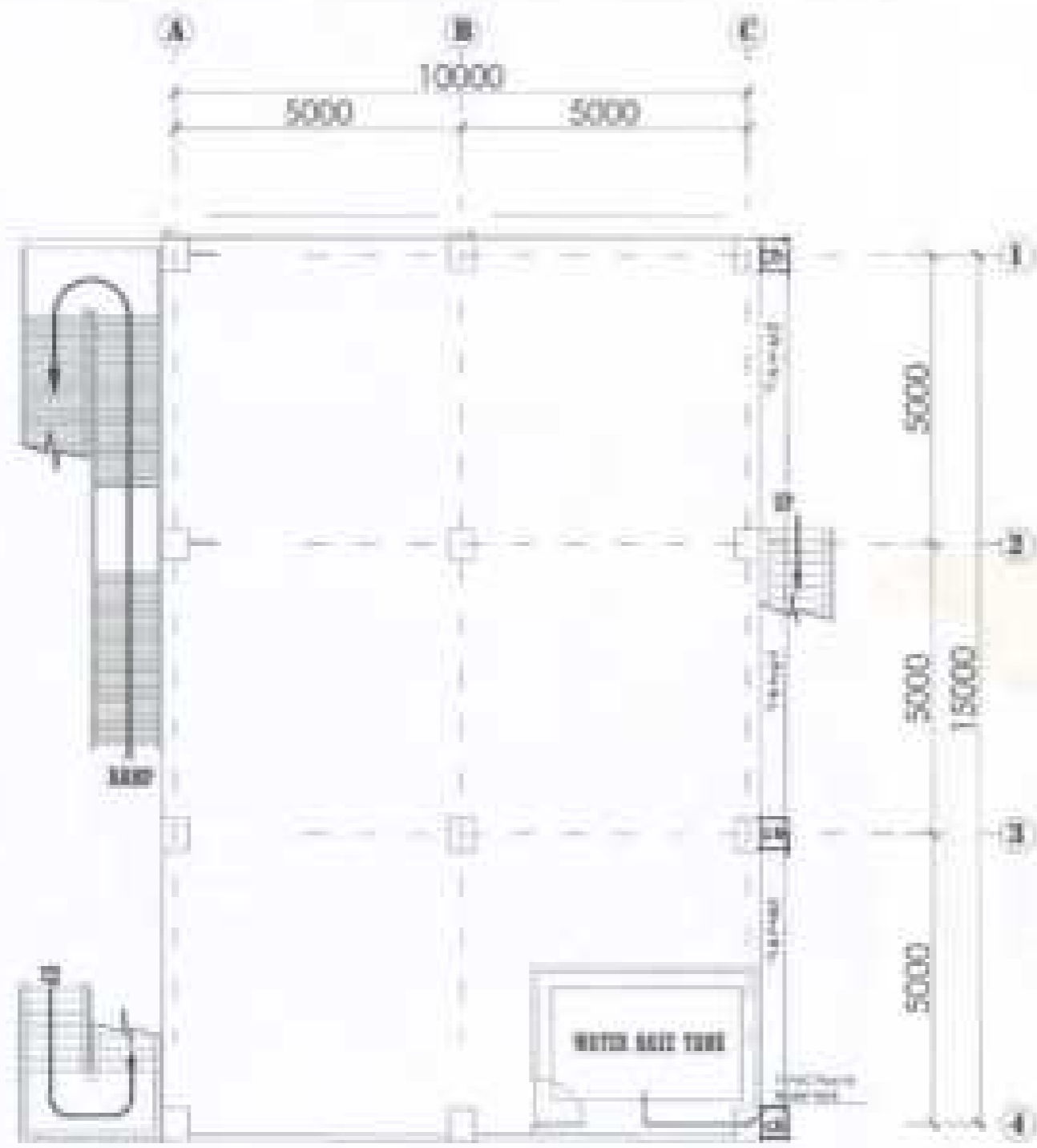
I **PLACEMENT OF WATER TANK**
 SCALE: 1/100

ISSUED BY:	DATE FORW:	ISSUED BY:	ISSUED BY:	ISSUED BY:	ISSUED BY:	ISSUED BY:
BOHRAN STATE UNIVERSITY	CAVUSOGLU FADRI	<i>[Signature]</i>	PROPOSED CONSTRUCTION OF	ELI DUBIN	GAS OPERATOR	P-6
OFFICE OF PHYSICAL PLANT AND FACILITIES	<i>[Signature]</i>	BILOGY AND ANALYTICAL LABORATORY			E.L.C.	
	<i>[Signature]</i>				JOB NO.:	
	<i>[Signature]</i>				DATE:	

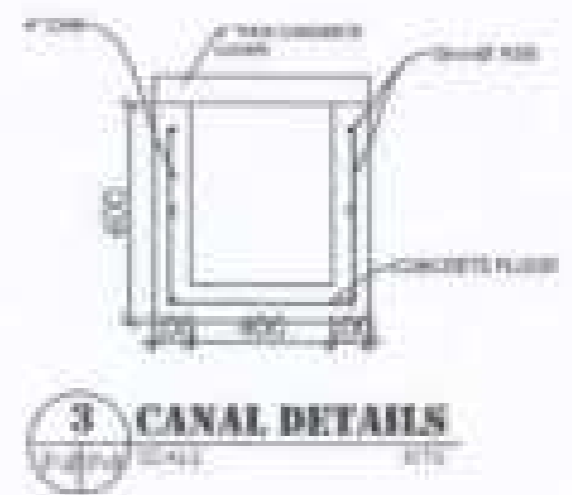


I **PLACEMENT OF WATER BASE TANK**
 SCALE 1:100

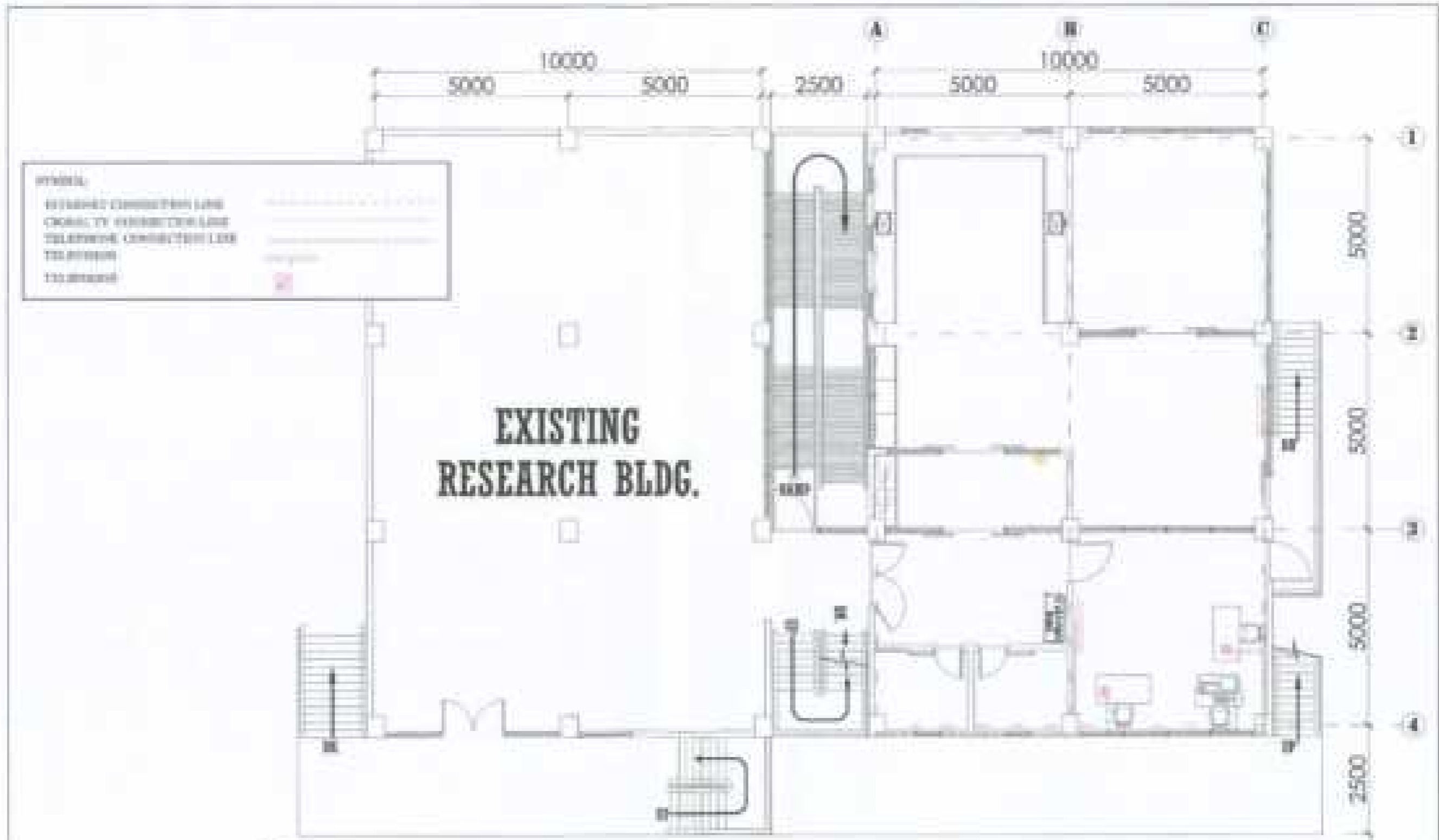
NUMBER OF:	DATE:	DRAWN BY:	CHECKED BY:	PROJECT NO:	SHEET NO:
BORDEN STATE UNIVERSITY OFFICE OF PHYSICAL PLANT AND FACILITIES	CEYLAN F. FIDIN PROJECT NO. 11252-000-01-0000 PLAN NO. 11252-000-01-0000-01 SHEET NO. 11252-000-01-0000-01-01	 PROJECT:	PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY OFFICE: BORDEN STATE UNIVERSITY, 300 SOUTH BROAD STREET, TOWNSHIP, NJ 07068	ALL LEVELS	ESD OPERATOR: BILL DWG NO.: DATE:



1 **PLACEMENT OF CATCH BASIN**
SCALE: 1/100



PROJECT NO: RESEARCH DEPT. UNIVERSITY OFFICE OF PHYSICAL PLANT AND FACILITIES	ARCHITECT: KAYMURAT FADIT ARCHITECTS AND ENGINEERS 1000 N. 10TH ST. SUITE 200 DENVER, CO 80202	DESIGNER: DATE:	PROJECT TITLE: PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY ADDRESS: RESEARCH DEPT. UNIVERSITY, 1000 N. 10TH ST., DENVER, COLORADO, 80202	PROJECT NUMBER: 11-2000	DRAWING NO.: CEM OPERATING SCALE: SHEET NO.: DATE:	SHEET NO.: P-8
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I SECOND FLOOR INTERNET, TELEPHONE AND CABLE TV LAY OUT PLAN
 SCALE: NTS

PROJECT NO: BIRGAM STATE UNIVERSITY OFFICE OF PHYSICAL PLANT AND FACILITIES	PREPARED BY: KAYMOUD F. FAOUI ARCHITECT	CHECKED BY: ARCHITECT	PROJECT TITLE: PROPOSED CONSTRUCTION OF BIOLOGY AND ANALYTICAL LABORATORY	DATE PREPARED: 21/03/2008	SHEET NO.: CAD OPERATOR SCALE: DR. NO.: DATE:	SHEET NO.: AU-2
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