



U.S. EMBASSY BANGKOK, THAILAND

UNITED STATES DEPARTMENT OF STATE



FACILITIES MANAGEMENT
BANGKOK THAILAND

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APPROVED BY

DATE: / /

FACILITIES MANAGEMENT ACKNOWLEDGEMENT

DATE: / /

REV. NO.	DATE	DESCRIPTION
01	06/17/19	ADD PAGE A-06 A-07 P-03

ARCHITECT:
FACILITIES MANAGEMENT

ENGINEER(S):
FACILITIES MANAGEMENT

PROJECT TITLE:
CMR MAIN HOUSE
LOWER FLOOR RESTROOM

DRAWING TITLE:
COVER SHEET

DRAWN BY: VJ DATE: JUN 17, 2019

CHECKED BY: SS. DATE: JUN 17, 2019

SCALE:

DWG NO.:
G-00

CADD FILE: CMR- Lower Floor Restroom_2

CMR MAINHOUSE LOWER FLOOR RESTROOM

CHIEF OF MISSION RESIDENCE

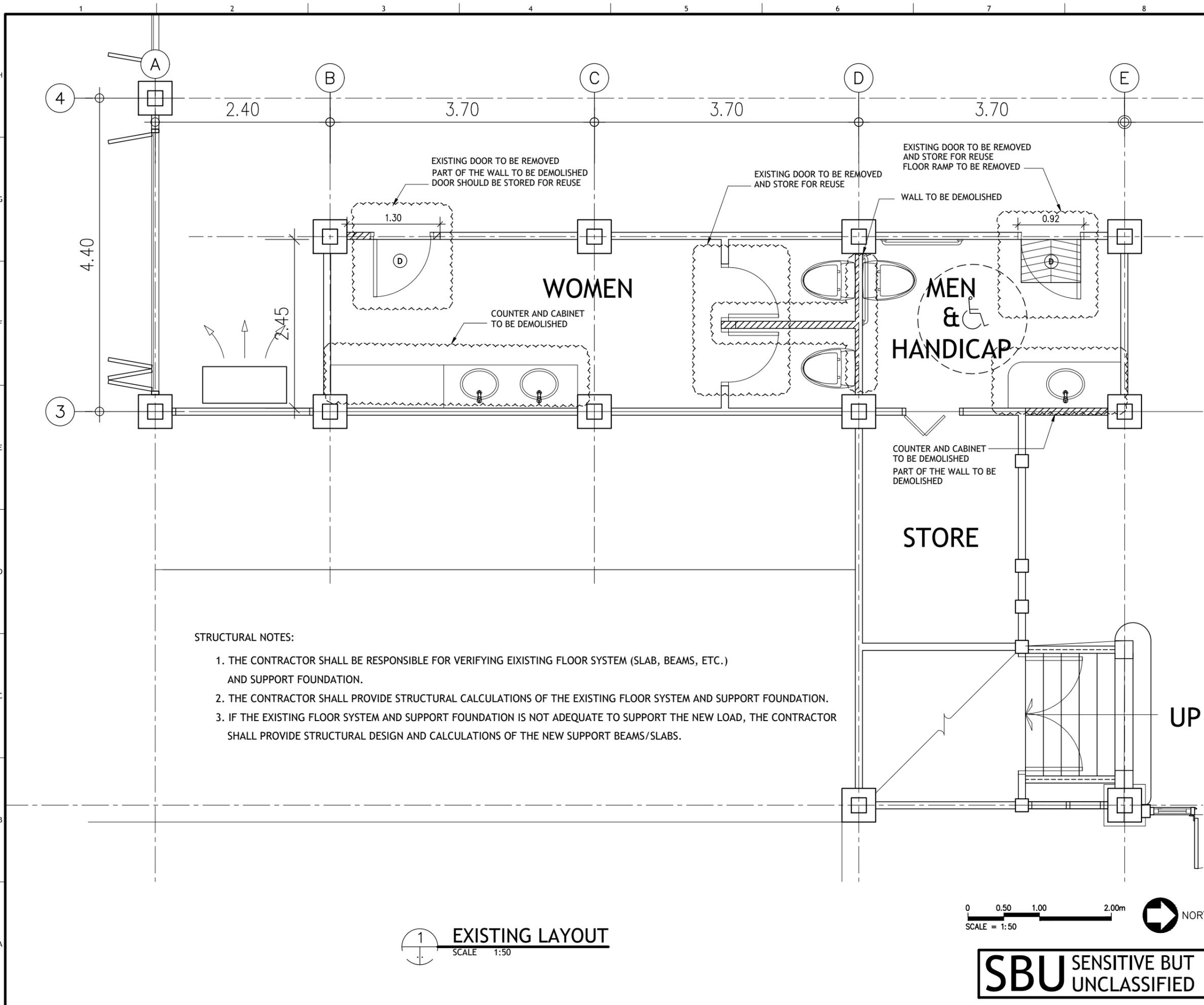
DRAWINGS LIST

DRAWING NO	DRAWING TITLE
G-00	COVER SHEET
A-01	EXISTING PLAN AND DEMOLITION PLAN
A-02	NEW TOILET LAYOUT
A-03	NEW CEILING PLAN
A-04	WALL ELEVATION 1, 2
A-05	WALL ELEVATION 3, 4
A-06	WALL ELEVATION 5, 6, 7
A-07	DOOR DETAIL, MATERIAL LIST
E-01	NEW LIGHTING CEILING PLAN
E-02	NEW OUTLET PLAN
P-01	WATER SUPPLY PIPES
P-02	SOIL, WASTE, VENT PIPES
P-03	CONCRETE PAD PLAN AND SECTION
M-01	VENTILATION SYSTEM
M-02	AIR CONDITIONING SYSTEM

- PRELIMINARY DESIGN
- DESIGN PHASE
 - 35% 60% 90% 100% FINAL
- CONTRACT DRAWINGS
- SHOP DRAWINGS
- AS-BUILT DRAWINGS
- FOR APPROVAL
- FOR ESTIMATION
- FOR CONSTRUCTION
- FOR REVIEW & COMMENT
- FOR YOUR INFORMATION
- FOR PERMIT

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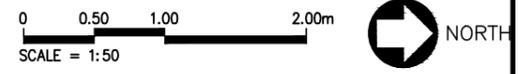
FACILITIES MANAGEMENT OFFICE



STRUCTURAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING FLOOR SYSTEM (SLAB, BEAMS, ETC.) AND SUPPORT FOUNDATION.
2. THE CONTRACTOR SHALL PROVIDE STRUCTURAL CALCULATIONS OF THE EXISTING FLOOR SYSTEM AND SUPPORT FOUNDATION.
3. IF THE EXISTING FLOOR SYSTEM AND SUPPORT FOUNDATION IS NOT ADEQUATE TO SUPPORT THE NEW LOAD, THE CONTRACTOR SHALL PROVIDE STRUCTURAL DESIGN AND CALCULATIONS OF THE NEW SUPPORT BEAMS/SLABS.

1 EXISTING LAYOUT
SCALE 1:50



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DEPARTMENT OF STATE
UNITED STATES OF AMERICA

FACILITIES MANAGEMENT
BANGKOK THAILAND

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DATE: / /

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DATE: / /

REV. NO.	DATE	DESCRIPTION
01	06/17/19	ADD GRID LINE

ARCHITECT:
FACILITIES MANAGEMENT

ENGINEER(S):
FACILITIES MANAGEMENT

PROJECT TITLE:
**CMR MAIN HOUSE
LOWER FLOOR RESTROOM**

DRAWING TITLE:
EXISTING LAYOUT

DRAWN BY: VJ	DATE: JUN 21, 2019
CHECKED BY: SS.	DATE: JUN 21, 2019

SCALE: 1:50
DWG NO.: **A-01**

CADD FILE: CMR- Lower Floor Restroom_2019Jun1



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DATE: / /

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DATE: / /

REV. NO.	DATE	DESCRIPTION
01	06/17/19	FLOOR DRAINS LOCATION

ARCHITECT:
FACILITIES MANAGEMENT

ENGINEER(S):
FACILITIES MANAGEMENT

PROJECT TITLE:
CMR MAIN HOUSE
LOWER FLOOR RESTROOM

DRAWING TITLE:
NEW TOILET LAYOUT

DRAWN BY: VJ DATE: JUN 21, 2019

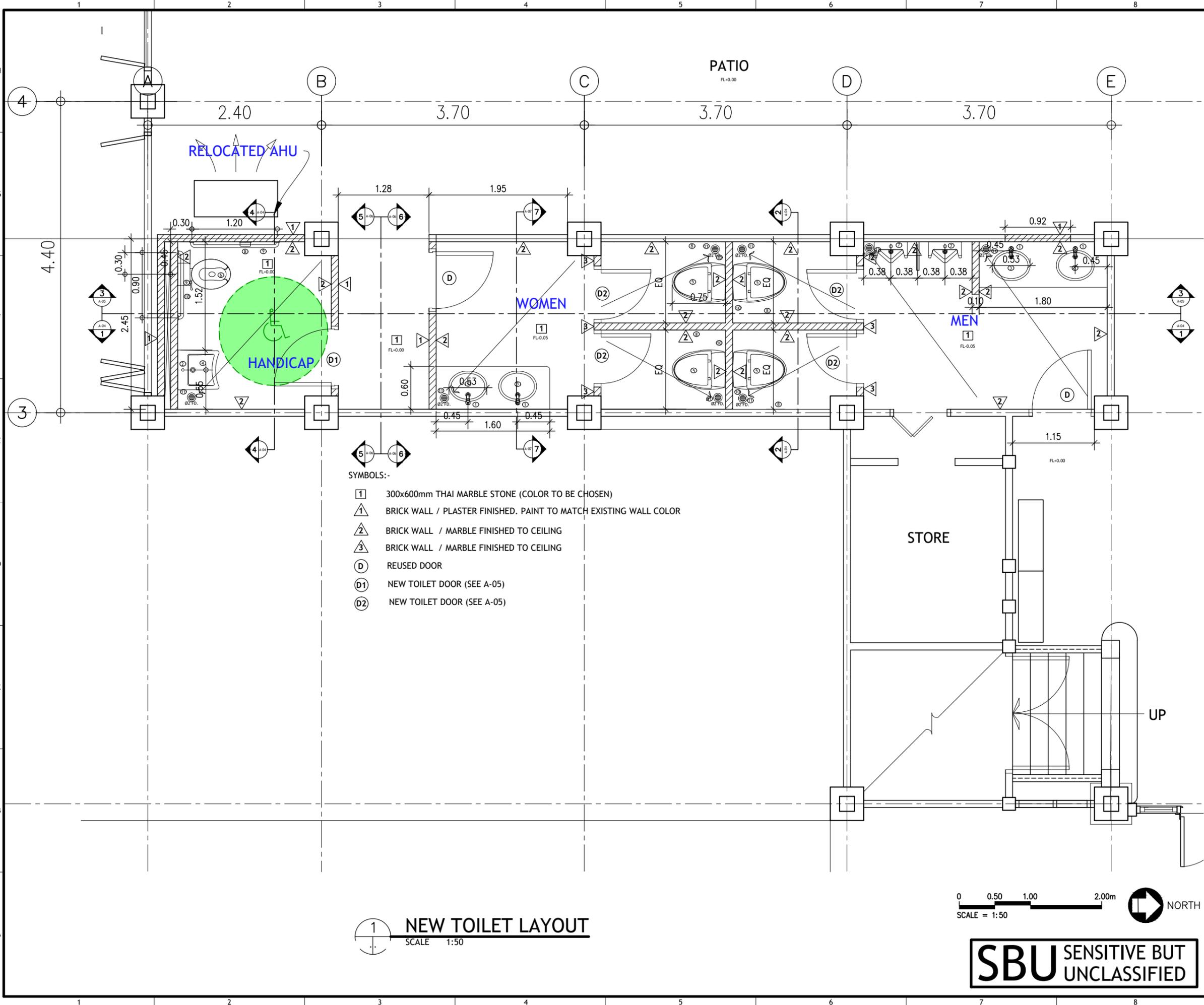
CHECKED BY: SS. DATE: JUN 21, 2019

SCALE: 1:50

DWG NO.:

A-02

CADD FILE: CMR- Lower Floor Restroom_2019Jun1

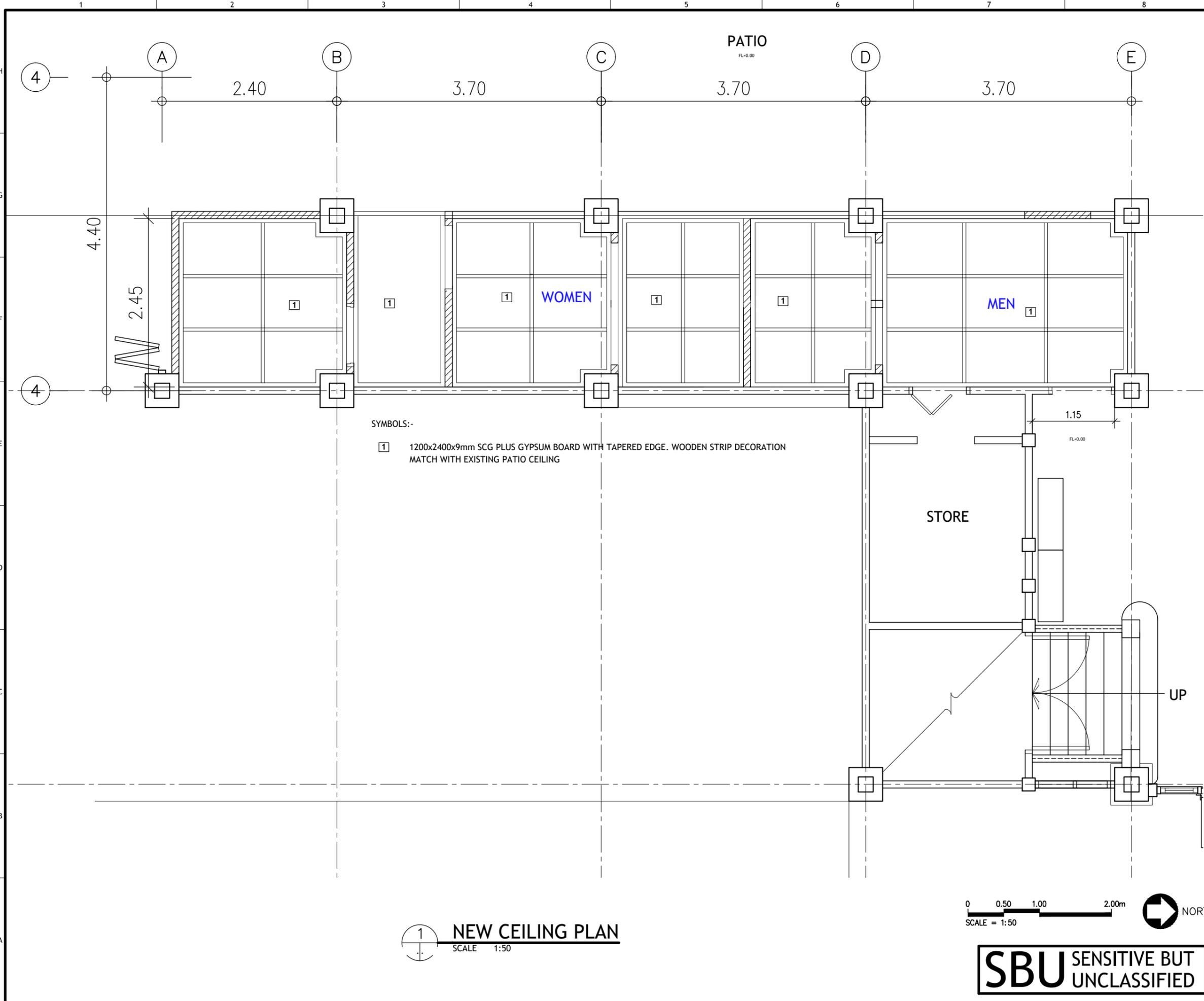


- SYMBOLS:-
- 1 300x600mm THAI MARBLE STONE (COLOR TO BE CHOSEN)
 - ▲ BRICK WALL / PLASTER FINISHED. PAINT TO MATCH EXISTING WALL COLOR
 - ▲ BRICK WALL / MARBLE FINISHED TO CEILING
 - ▲ BRICK WALL / MARBLE FINISHED TO CEILING
 - D REUSED DOOR
 - D1 NEW TOILET DOOR (SEE A-05)
 - D2 NEW TOILET DOOR (SEE A-05)

1 NEW TOILET LAYOUT
SCALE 1:50



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SYMBOLS:-
 1 1200x2400x9mm SCG PLUS GYPSUM BOARD WITH TAPERED EDGE. WOODEN STRIP DECORATION MATCH WITH EXISTING PATIO CEILING

1 NEW CEILING PLAN
 SCALE 1:50



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 DATE: / /

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 DATE: / /

REV. NO.	DATE	DESCRIPTION
01	06/21/19	REVISE CEILING STRIP

ARCHITECT:
FACILITIES MANAGEMENT

ENGINEER(S):
FACILITIES MANAGEMENT

PROJECT TITLE:
**CMR MAIN HOUSE
 LOWER FLOOR RESTROOM**

DRAWING TITLE:
NEW CEILING PLAN

DRAWN BY: VJ	DATE: JUN 21, 2019
CHECKED BY: SS.	DATE: JUN 21, 2019

SCALE: 1:50

DWG NO.: **A-03**

CADD FILE: CMR- Lower Floor Restroom_2019Jun1



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DATE: / /

FACILITIES MANAGEMENT ACKNOWLEDGEMENT

DATE: / /

REV. NO.	DATE	DESCRIPTION
02	06/17/19	INTERIOR WALL HEIGHT
01	06/17/19	WALL TILE SIZE

ARCHITECT:
FACILITIES MANAGEMENT

ENGINEER(S):
FACILITIES MANAGEMENT

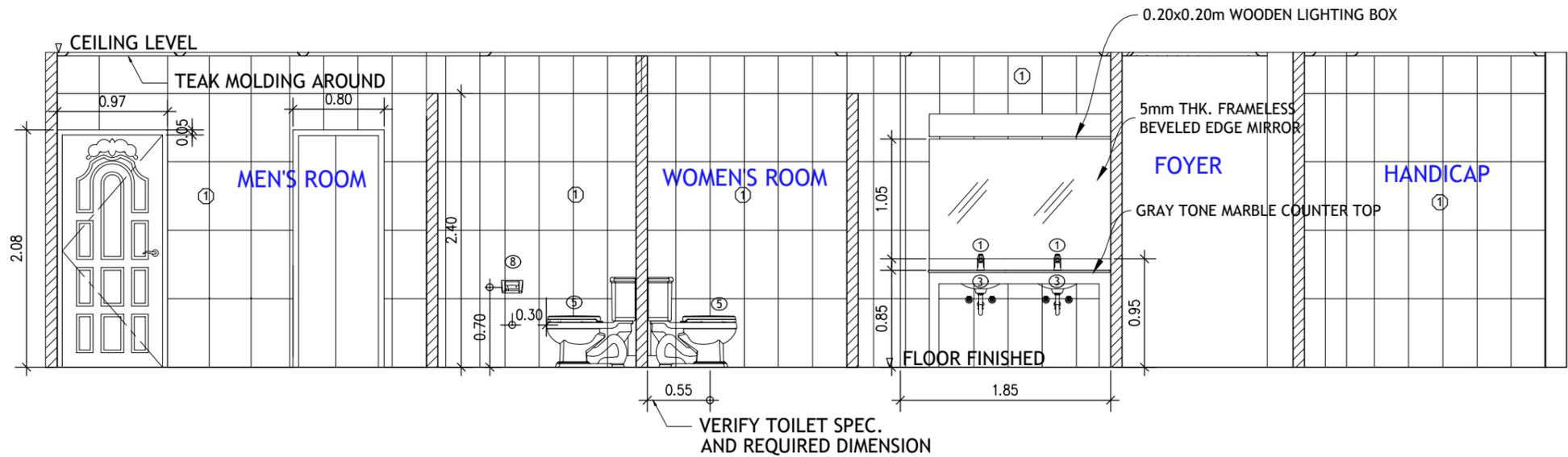
PROJECT TITLE:
CMR MAIN HOUSE
LOWER FLOOR RESTROOM

DRAWING TITLE:
ELEVATION 1, 2

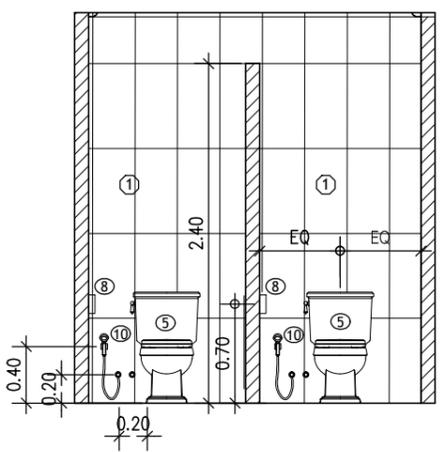
DRAWN BY: VJ DATE: JUN 17, 2019
CHECKED BY: SS. DATE: JUN 17, 2019

SCALE: 1:50
DWG NO.:

A-04
CADD FILE: CMR- Lower Floor Restroom_2019Jun1



1 ELEVATION
SCALE 1:50



2 ELEVATION
SCALE 1:50



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DATE: / /

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DATE: / /

03	06/17/19	INTERIOR WALL HEIGHT
02	06/17/19	SANITARYWARE DIMENSION
01	06/17/19	WALL TILE SIZE
REV. NO.	DATE	DESCRIPTION

ARCHITECT:
FACILITIES MANAGEMENT

ENGINEER(S):
FACILITIES MANAGEMENT

PROJECT TITLE:
CMR MAIN HOUSE
LOWER FLOOR RESTROOM

DRAWING TITLE:
ELEVATION 3,4

DRAWN BY: VJ DATE: JUN 17, 2019

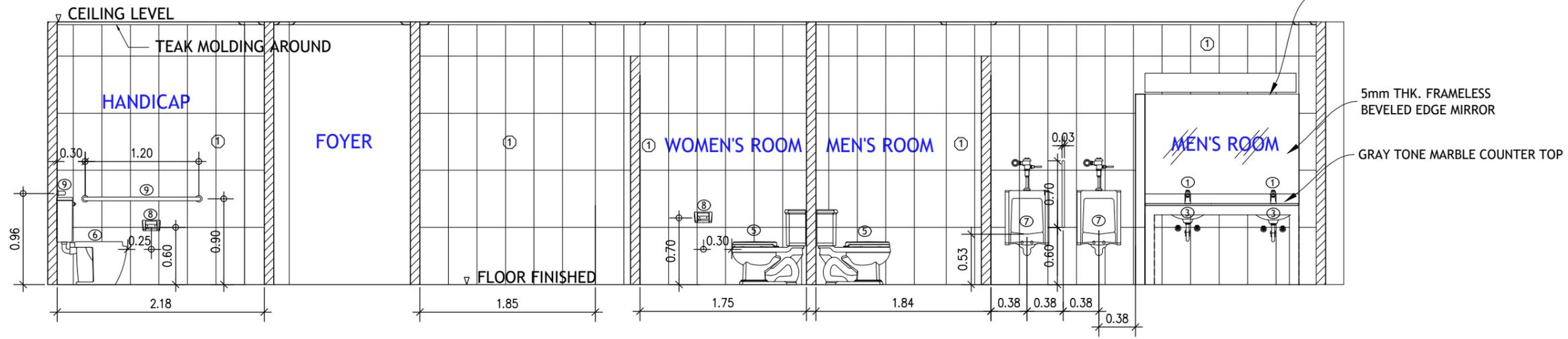
CHECKED BY: SS. DATE: JUN 17, 2019

SCALE: 1:50

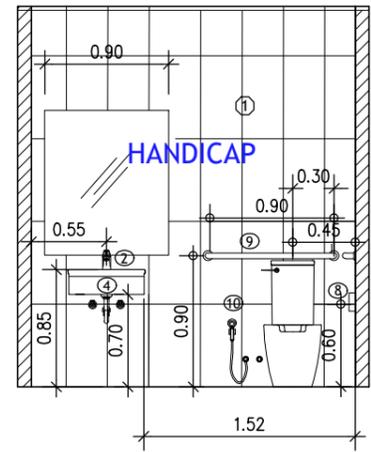
DWG NO.:

A-05

CADD FILE: CMR- Lower Floor Restroom_2019Jun1



3 ELEVATION
SCALE 1:50



4 ELEVATION
SCALE 1:50



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DATE: / /

FACILITIES MANAGEMENT ACKNOWLEDGEMENT

DATE: / /

02	06/17/19	CHANGE DOOR SIZE
01	06/17/19	MATERIAL LIST REVISION
REV. NO.	DATE	DESCRIPTION

ARCHITECT:
FACILITIES MANAGEMENT

ENGINEER(S):
FACILITIES MANAGEMENT

PROJECT TITLE:
CMR MAIN HOUSE
LOWER FLOOR RESTROOM

DRAWING TITLE:
DOOR DETAIL & MATERIAL LISTS

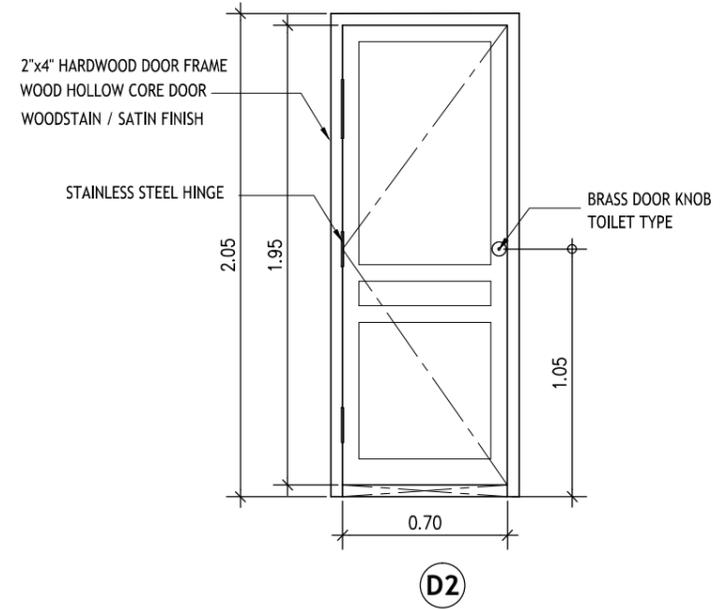
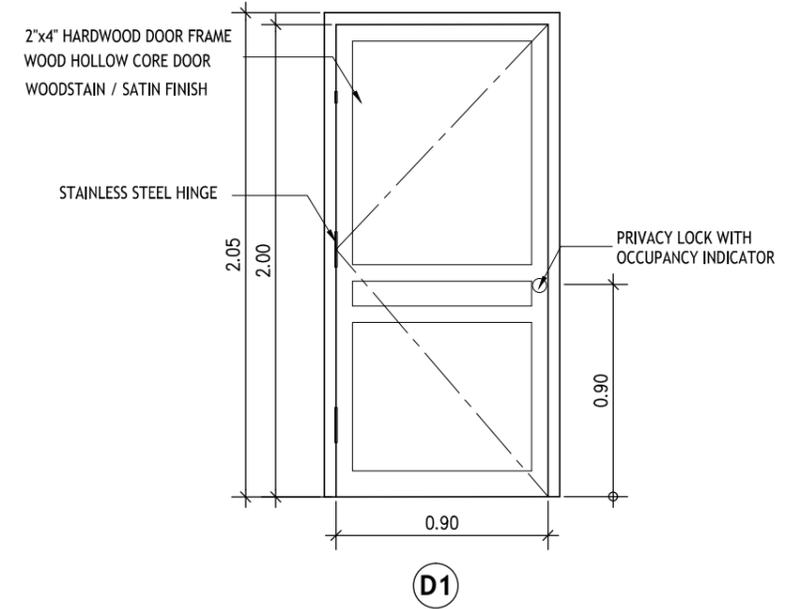
DRAWN BY: VJ DATE: JUN 17, 2019

CHECKED BY: SS. DATE: JUN 17, 2019

SCALE: 1:30

DWG NO.: A-07

CADD FILE: CMR- Lower Floor Restroom_2



DOOR DETAIL
SCALE 1:30

TOILET MATERIALS LIST			
DESCRIPTION	PRODUCT	MODEL	QTY
① BASIN MIXER	AMERICAN STANDARD	F-10701-CHACT100 NEO MODERN BASIN MIXER WITH POP-UP DRAIN	4
② BASIN MIXER	COTTO	FOR HANDICAP, CT1058X(HM)	1
③ WASH BASIN	AMERICAN STANDARD	CL470LI-6DAWDLU OVALYN UNDER COUNTER WASH BASIN	4
④ WASH BASIN	COTTO	FOR HANDICAP, SC00537	1
⑤ WATER CLOSET	AMERICAN STANDARD	2630NSC-WT-0 NEO MODERN CLOSE COUPLED TOILET, WHITE	4
⑥ WATER CLOSET	COTTO	FOR HANDICAP, SC6652+C9251WHITE	1
⑦ URINAL	AMERICAN STANDARD	TF6301-WT, WHITE	2
⑧ TISSUE HOLDER	AMERICAN STANDARD	K-2501-43-N CONCEPT SQUARE	5
⑨ HANDRAIL	AMERICAN STANDARD	HR-320435-01	1
⑩ HYGIENIC SPRAY	GROHE	GROHE 27807LO	5
⑪ FLOOR DRAIN	COTTO	CT647Y1 (HM)	7

MATERIALS LIST			
DESCRIPTION	SUPPLIER	MODEL	QTY
① FLOOR TILE	N/A	MARBLE STONE TILE 30 X 60 CM COLOR TO BE CHOSEN	
① WALL TILE	N/A	MARBLE STONE TILE 30 X 60 CM COLOR TO BE CHOSEN	

MATERIAL LISTS

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PATIO
FL=0.00



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DATE: / /

REV. NO.	DATE	DESCRIPTION
06/20/2019		CHANGE PENDANT FEATURE TO BARE TYPE IN LIGHT BOX

ARCHITECT:
FACILITIES MANAGEMENT

ENGINEER(S):
FACILITIES MANAGEMENT

PROJECT TITLE:
CMR MAIN HOUSE
LOWER FLOOR RESTROOM

DRAWING TITLE:
NEW LIGHTING
CEILING PLAN

DRAWN BY: VJ DATE: MAR 22, 2019

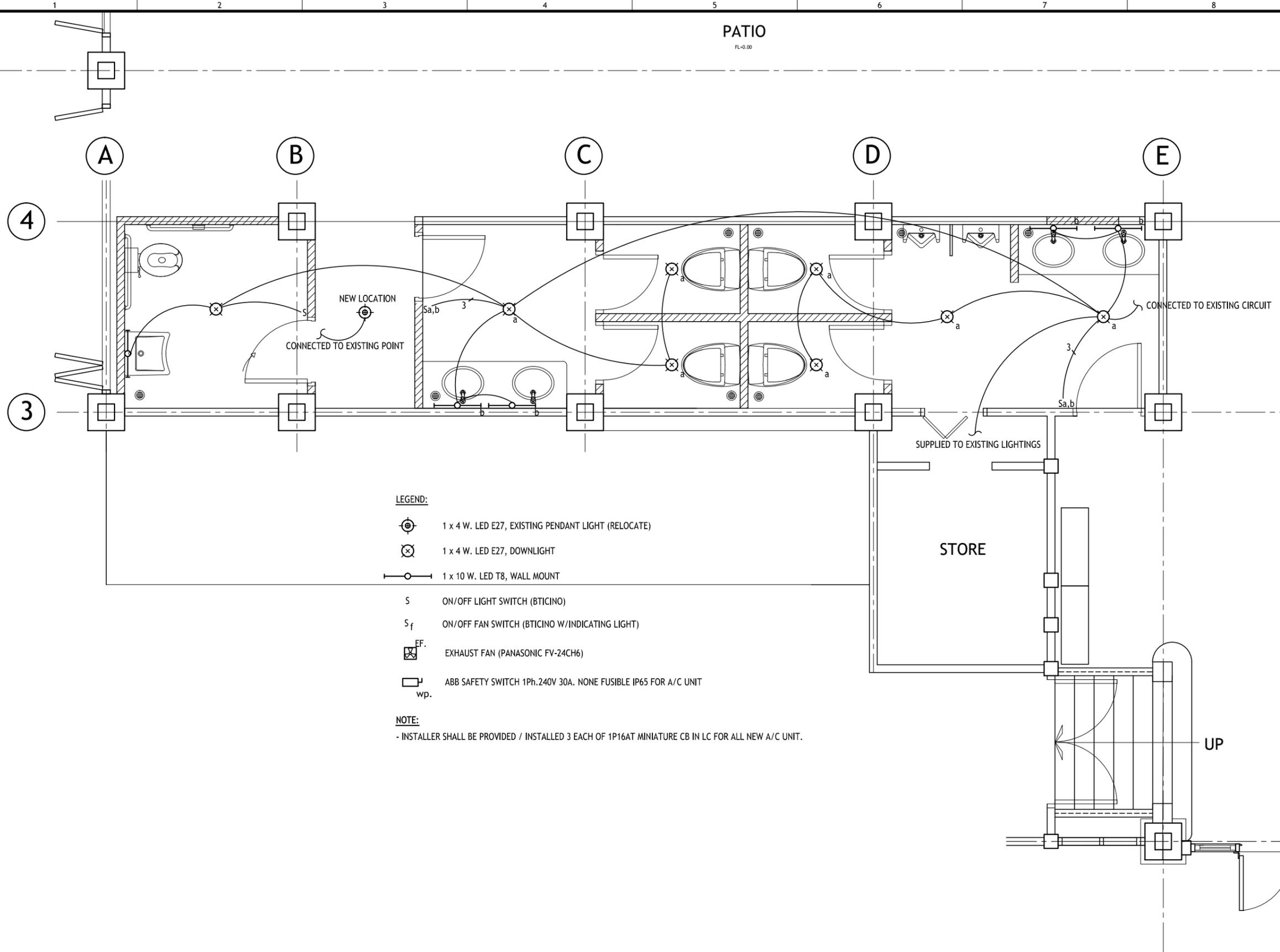
CHECKED BY: SS. DATE: MAR 22, 2019

SCALE: 1:50

DWG NO.:

E-01

CADD FILE: CMR- Lower Floor Restroom-E



- LEGEND:**
- 1 x 4 W. LED E27, EXISTING PENDANT LIGHT (RELOCATE)
 - 1 x 4 W. LED E27, DOWNLIGHT
 - 1 x 10 W. LED T8, WALL MOUNT
 - S ON/OFF LIGHT SWITCH (BTICINO)
 - S_f ON/OFF FAN SWITCH (BTICINO W/INDICATING LIGHT)
 - EF. EXHAUST FAN (PANASONIC FV-24CH6)
 - wp. ABB SAFETY SWITCH 1Ph.240V 30A. NONE FUSIBLE IP65 FOR A/C UNIT

NOTE:
- INSTALLER SHALL BE PROVIDED / INSTALLED 3 EACH OF 1P16AT MINIATURE CB IN LC FOR ALL NEW A/C UNIT.

1 NEW LIGHTING CEILING PLAN
SCALE 1:50



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DATE: / /

1	06/20/19	Revise number and locations of FD.
REV. NO.	DATE	DESCRIPTION

ARCHITECT:
FACILITIES MANAGEMENT

ENGINEER(S):
FACILITIES MANAGEMENT

PROJECT TITLE:
CMR MAIN HOUSE
LOWER FLOOR RESTROOM

DRAWING TITLE:
SOIL, WASTE, AND VENT PIPES

DRAWN BY: SS DATE: MAR 22, 2019

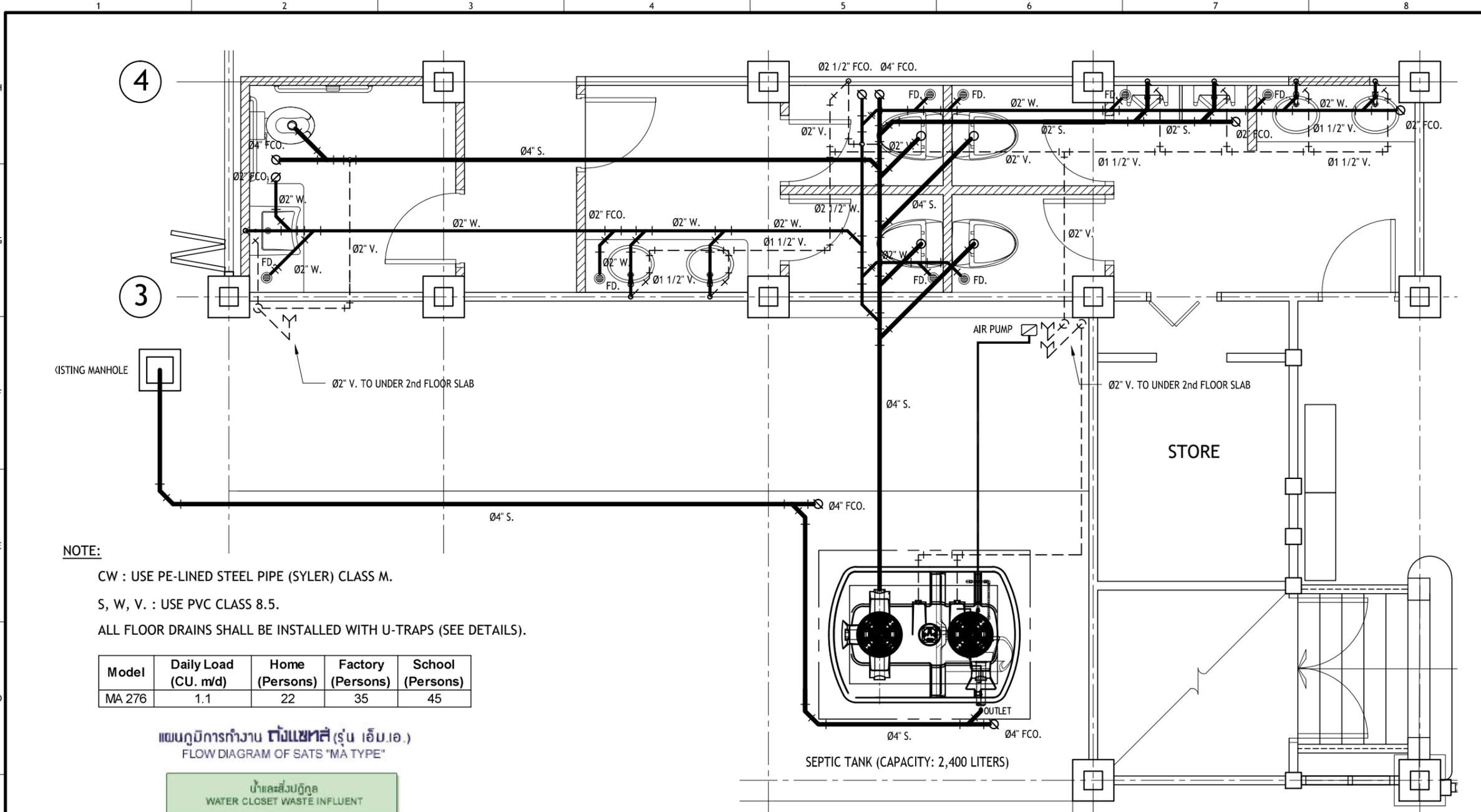
CHECKED BY: SS. DATE: MAR 22, 2019

SCALE: 1:50

DWG NO.:

P-02

CADD FILE: CMR- Lower Floor Restroom-P

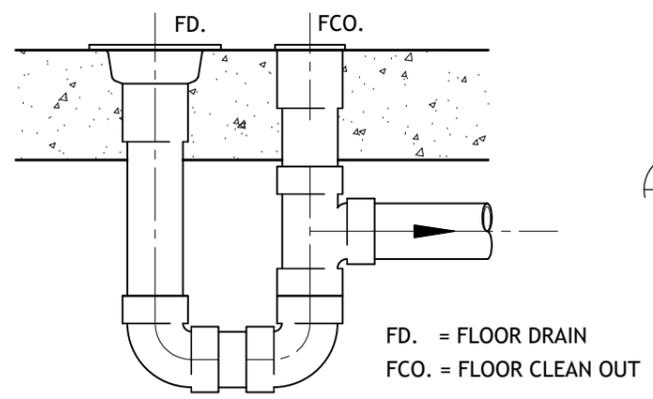
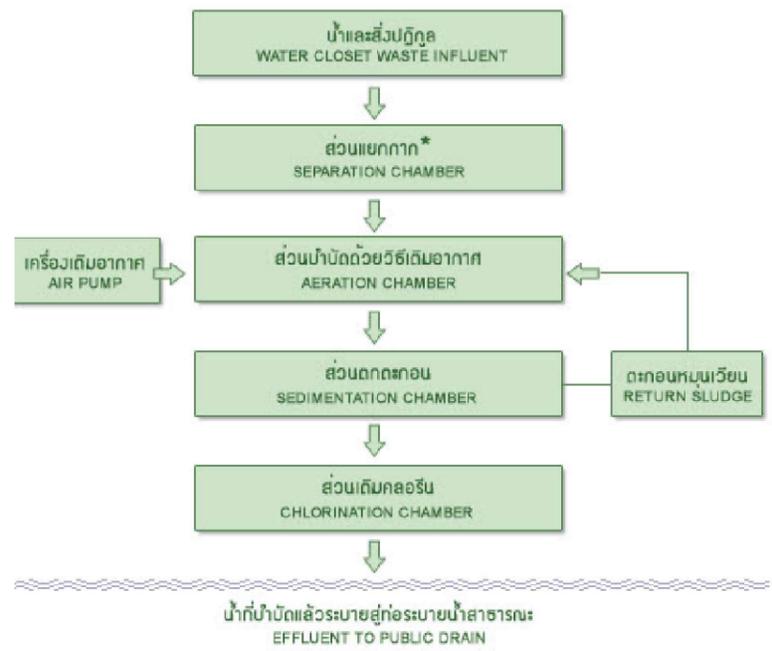


NOTE:

- CW : USE PE-LINED STEEL PIPE (SYLER) CLASS M.
- S, W, V. : USE PVC CLASS 8.5.
- ALL FLOOR DRAINS SHALL BE INSTALLED WITH U-TRAPS (SEE DETAILS).

Model	Daily Load (CU. m/d)	Home (Persons)	Factory (Persons)	School (Persons)
MA 276	1.1	22	35	45

แผนภูมิการทำงาน ตัวแยกน้ำ (รุ่น เอ็ม.เอ.)
FLOW DIAGRAM OF SATS "MA TYPE"



U-TRAP DETAIL
SCALE NTS.

1 SOIL, WASTE, AND VENT PIPES
SCALE 1:50



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หมายเหตุ : * ในรุ่น อี.เจ. ส่วนแยกน้ำรวมอยู่กับส่วนบำบัดด้วยวิธีเติมอากาศ



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DATE: / /

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DATE: / /

2	06/20/19	Relocate FCU-01
1	06/20/19	Change capacity of FCU02/CDU02
REV. NO.	DATE	DESCRIPTION

ARCHITECT:
FACILITIES MANAGEMENT

ENGINEER(S):
FACILITIES MANAGEMENT

PROJECT TITLE:
CMR MAIN HOUSE
LOWER FLOOR RESTROOM

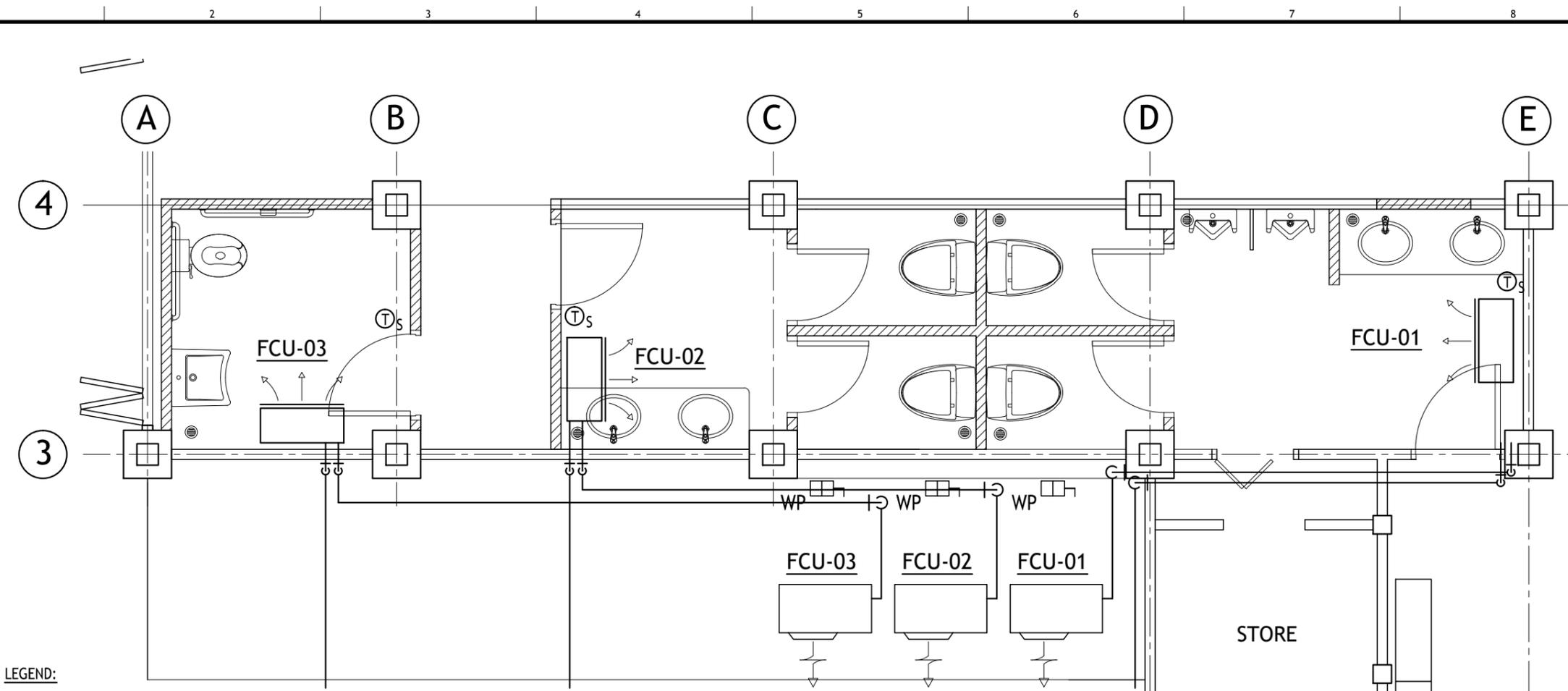
DRAWING TITLE:
AIR CONDITIONING SYSTEM

DRAWN BY: SS DATE: MAR 22, 2019
CHECKED BY: SS. DATE: MAR 22, 2019

SCALE: 1:50
DWG NO.:

M-01

CADD FILE: CMR- Lower Floor Restroom-H



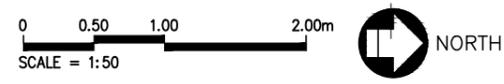
LEGEND:

- FAN COIL UNIT
- CONDENSING UNIT
- SAFETY SWITCH (WEATHER PROOF, NEMA 3R)

AIR CONDITIONING SPLIT TYPE SCHEDULE										
FCU No.	MODEL No.	CDU No.	MODEL No.	MANUFAC.	CAPACITY BTU/HR	SUPPLY AIR (Max. CFM)	V/PH/Hz	POWER IN (W)	DRAIN (IN)	TYPE
FCU-01	FTKM12SV2S	CDU-01	RKM12SV2S	DAIKIN	11,900	357	220/1/50	895	3/4"	WALL
FCU-02	FTKM09SV2S	CDU-02	RKM09SV2S	DAIKIN	8,500	357	220/1/50	510	3/4"	WALL
FCU-03	FTKM09SV2S	CDU-03	RKM09SV2S	DAIKIN	8,500	357	220/1/50	510	3/4"	WALL

NOTE: INSTALL CDU-02 ON TOP OF CDU-01. THE CONTRACTOR SHALL FABRICATE A PAINTED STEEL FRAME (L 50x50x3.2 mm.)

AIR CONDITIONING SYSTEM
SCALE 1:50



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FACILITIES MANAGEMENT ACKNOWLEDGEMENT

DATE: / /

REV. NO.	DATE	DESCRIPTION
2	06/20/19	Revise number and locations of FD.
1	06/20/19	Remove 2 oscillating fans.

ARCHITECT:
FACILITIES MANAGEMENT

ENGINEER(S):
FACILITIES MANAGEMENT

PROJECT TITLE:
CMR MAIN HOUSE
LOWER FLOOR RESTROOM

DRAWING TITLE:
VENTILATION SYSTEM

DRAWN BY: SS DATE: MAR 22, 2019

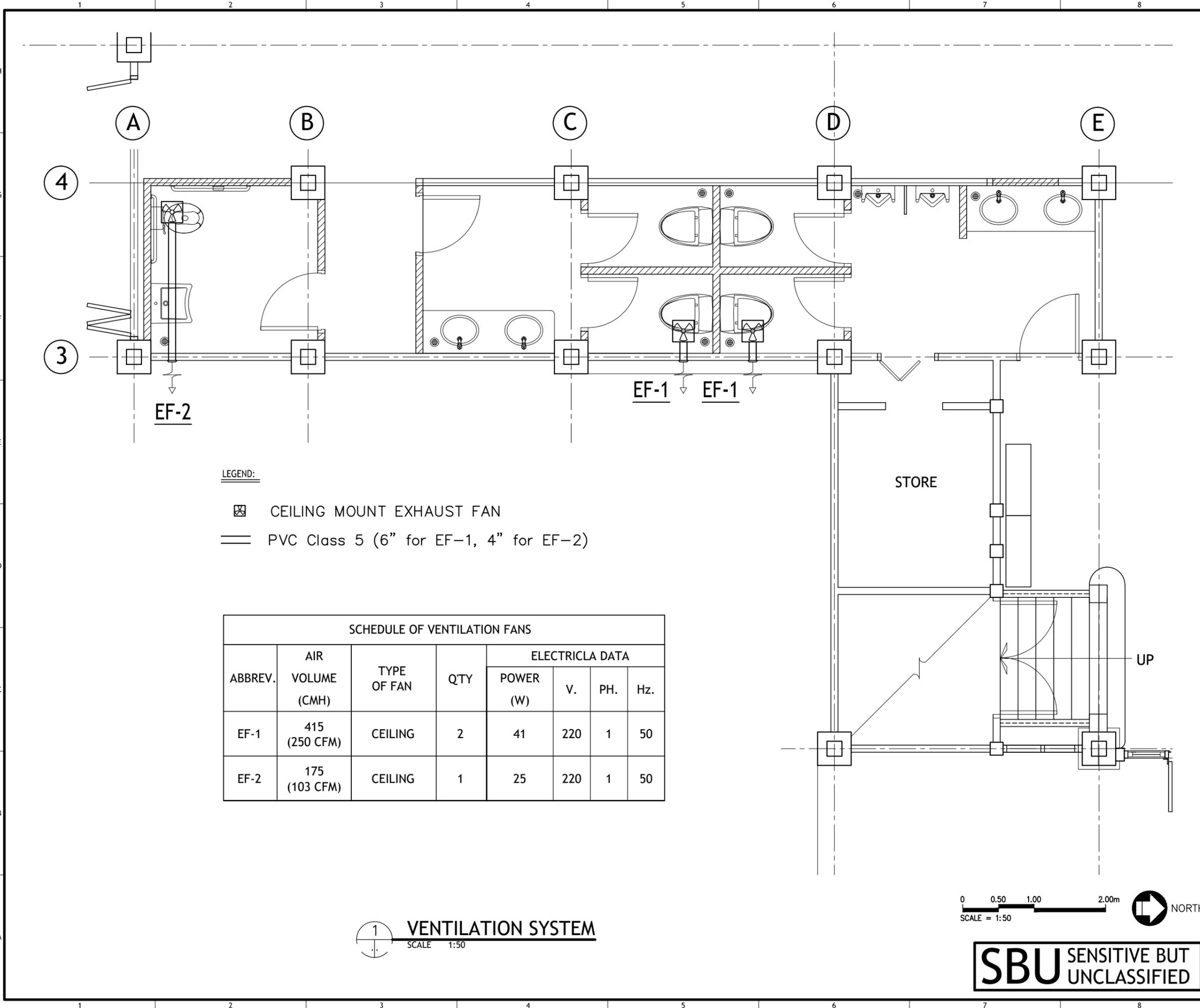
CHECKED BY: SS. DATE: MAR 22, 2019

SCALE: 1:50

DWG NO.:

M-02

CADD FILE: CMR- Lower Floor Restroom-H



LEGEND:

- CEILING MOUNT EXHAUST FAN
- PVC Class 5 (6" for EF-1, 4" for EF-2)

SCHEDULE OF VENTILATION FANS							
ABBREV.	AIR VOLUME (CMH)	TYPE OF FAN	QTY	ELECTRICLA DATA			
				POWER (W)	V.	PH.	Hz.
EF-1	415 (250 CFM)	CEILING	2	41	220	1	50
EF-2	175 (103 CFM)	CEILING	1	25	220	1	50

1 VENTILATION SYSTEM
SCALE 1:50

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