

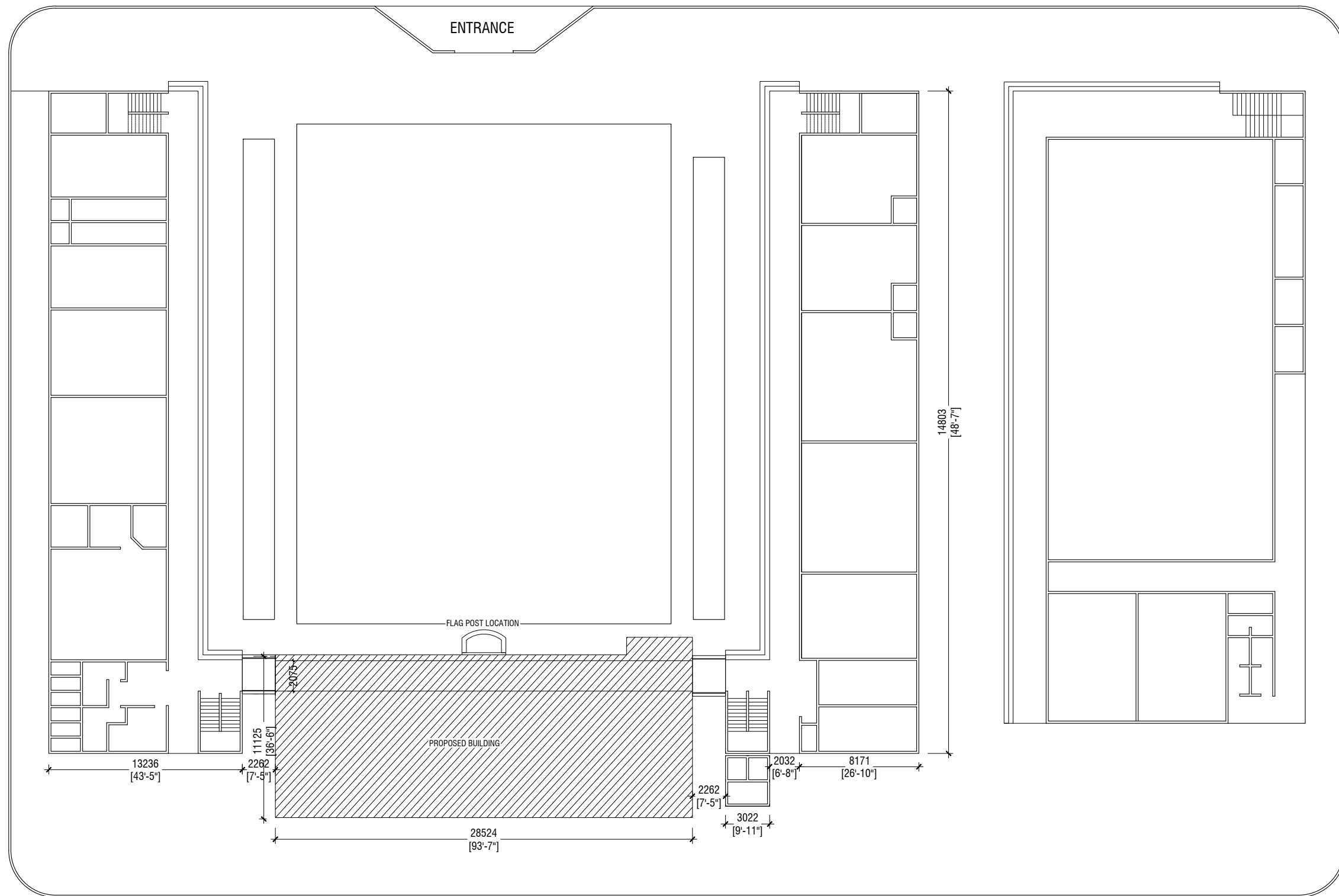
Proposed 04 Classroom Building
N.KENDHIKOLHUDHOO
(03 Storey Building)

ARCHITECTURAL & STRUCTURAL DRAWINGS

Ministry of Education
Male', Republic of Maldives

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| | | | | |



SITE PLAN
NTS



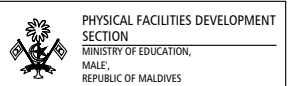
NOTE:



PROPOSED BUILDING LOCATION

THE INFRASTRUCTURES MARKED ON THE SITE MAP NEED TO BE DEMOLISHED AFTER VERIFYING ON SITE

AVAILABLE MEASUREMENTS ON SITE FOR THE PROPOSED BUILDING: 106.38 ft x 50.38 ft



PROJECT : **03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)**

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

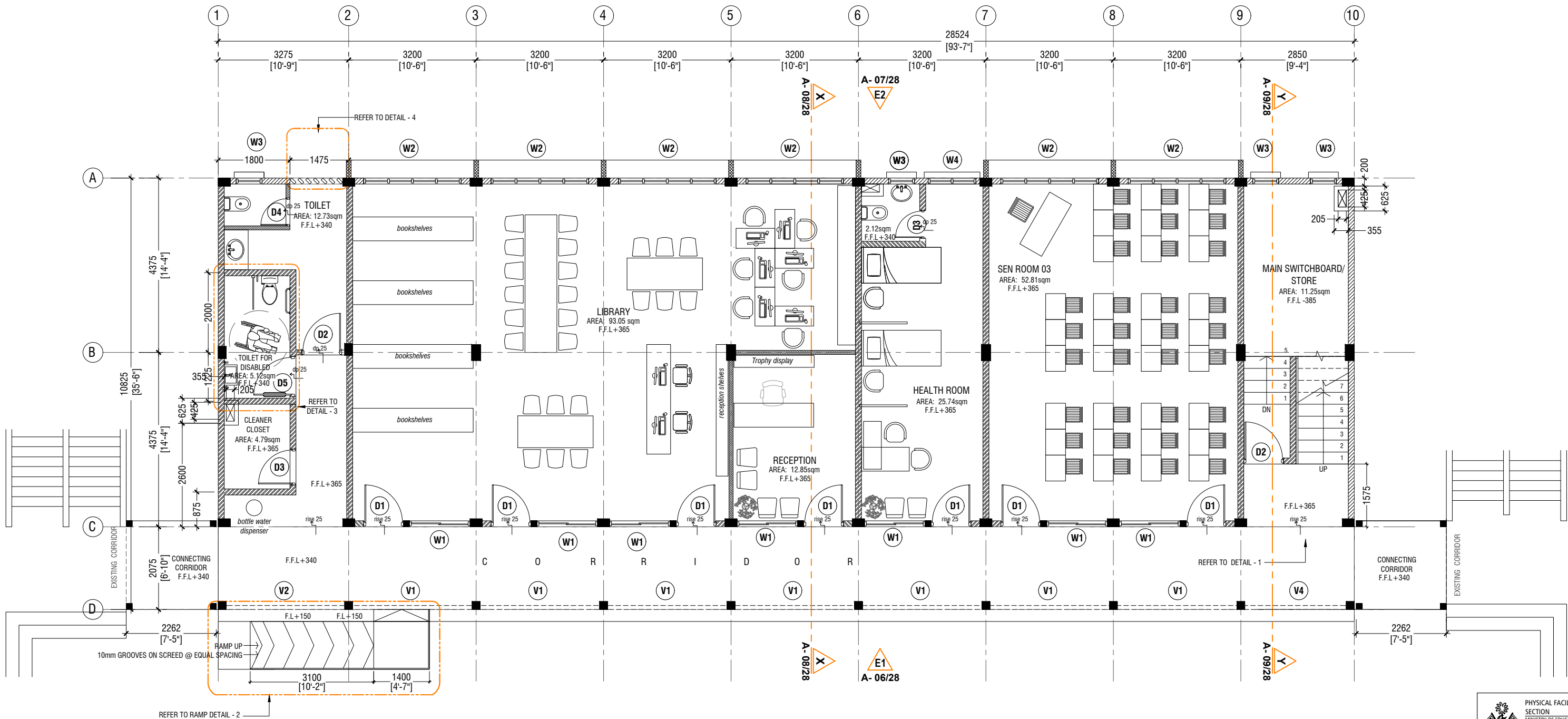
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DATE : 22.05.2022

AMENDMENTS

| Issue | Date | Description |
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| | | |

DWG NO : **A - 01/ 28**



GROUND FLOOR PLAN

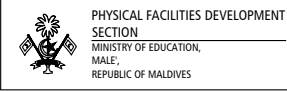
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NOTE:

- PROPOSED 150mm THICK SOLID BLOCK - INTERIOR MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
- PROPOSED 150mm THICK SOLID BLOCK - EXTERIOR MASONRY WALL WITH 20mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
- PROPOSED 100mm THICK SOLID BLOCK - INTERIOR MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
- PROPOSED 120mm THICK RC WALL TO BE WATER PROOFED WITH WATER PROOFING AGENT
- PROPOSED 100mm THICK 2400mm HIGH SOLID BLOCK MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH

THE SCREEDING AND TILES ARE INCORPORATED IN THE FLOOR FINISH LEVELS

REFER TO ARCHITECT FOR FURTHER ASSISTANCE.

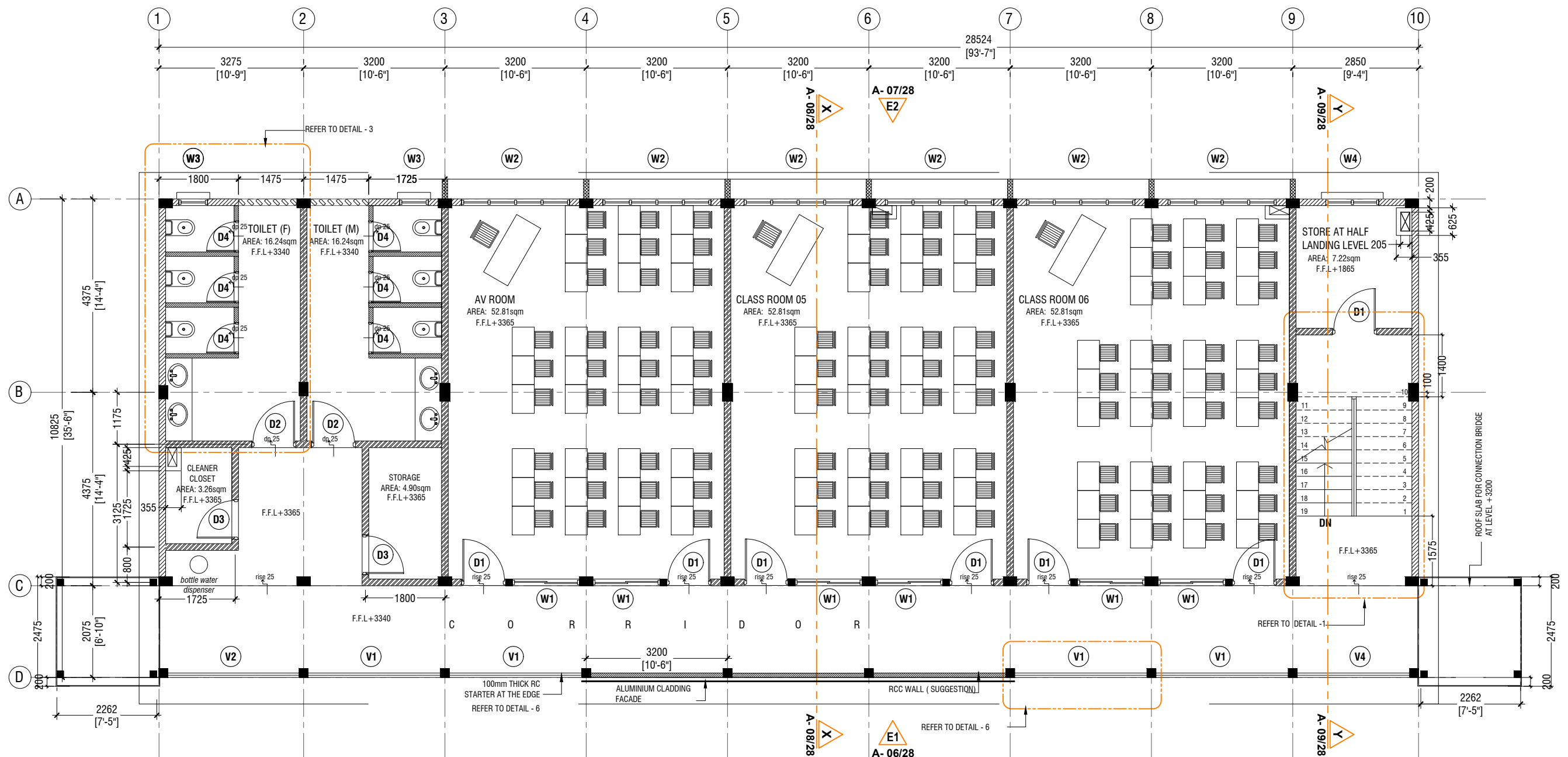


PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT REFERENCE :
ARCHITECT : MOE
ENGINEER : MOE
DRAWN : MOE
CHECKED : MOE
SCALE : AS GIVEN
DATE : 22.05.2022

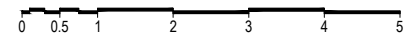
| AMENDMENTS | | |
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| Issue | Date | Description |
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DWG NO : A - 02/ 28



FIRST FLOOR PLAN

SCALE 1:100

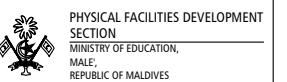


NOTE:

- PROPOSED 150mm THICK SOLID BLOCK - INTERIOR MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
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THE SCREEDING AND TILES ARE INCORPORATED IN THE FLOOR FINISH LEVELS

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PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
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ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

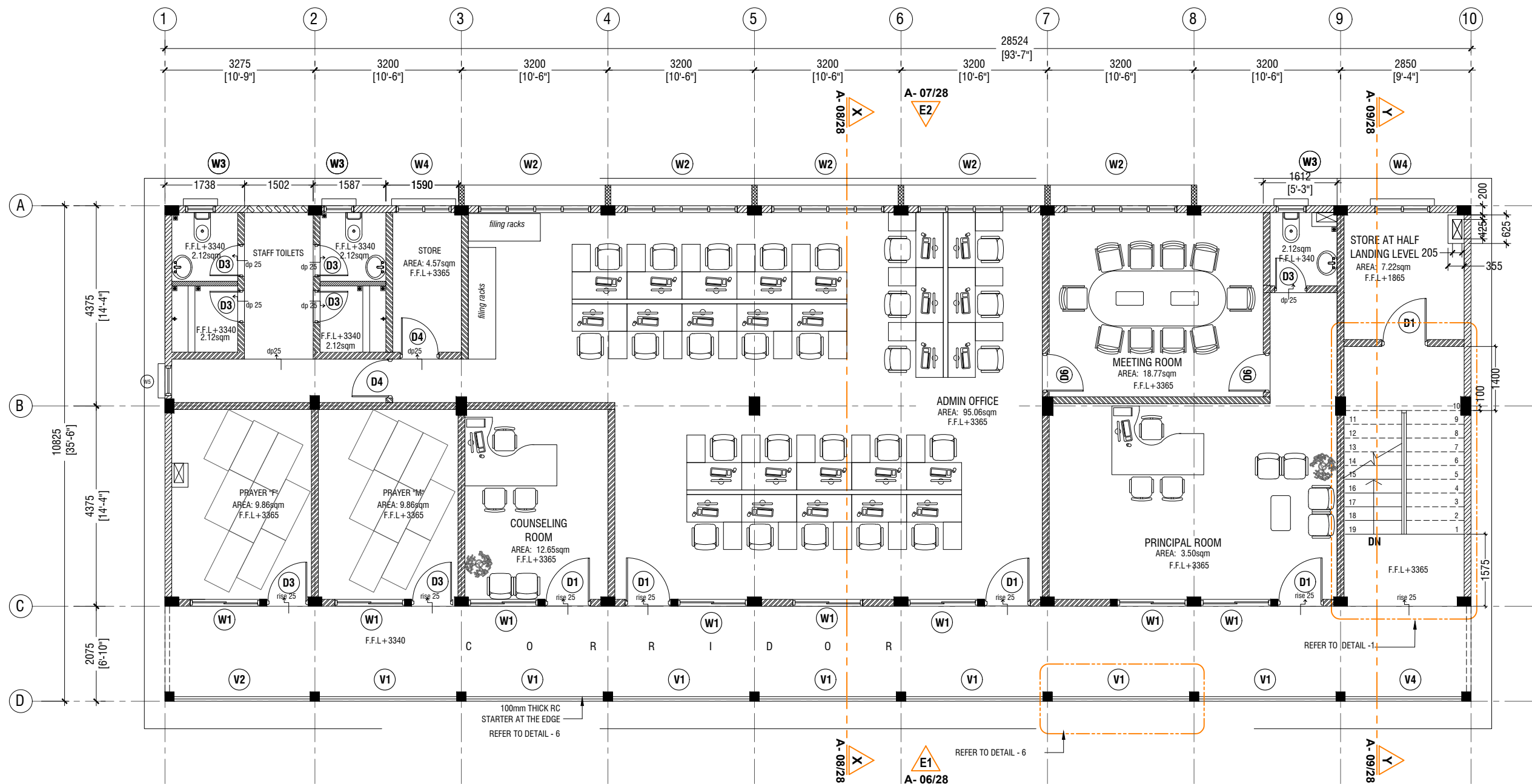
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DATE : 22.05.2022

AMENDMENTS

| Issue | Date | Description |
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DWG NO : A - 03/ 28



SECOND FLOOR PLAN

SCALE 1:100

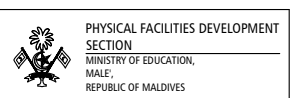


NOTE:

- PROPOSED 150mm THICK SOLID BLOCK - INTERIOR MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
- PROPOSED 150mm THICK SOLID BLOCK - EXTERIOR MASONRY WALL WITH 20mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
- PROPOSED 100mm THICK SOLID BLOCK - INTERIOR MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
- PROPOSED 120mm THICK RC WALL TO BE WATER PROOFED WITH WATER PROOFING AGENT
- PROPOSED 100mm THICK 2400mm HIGH SOLID BLOCK MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH

THE SCREEDING AND TILES ARE INCORPORATED IN THE FLOOR FINISH LEVELS

REFER TO ARCHITECT FOR FURTHER ASSISTANCE.



PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

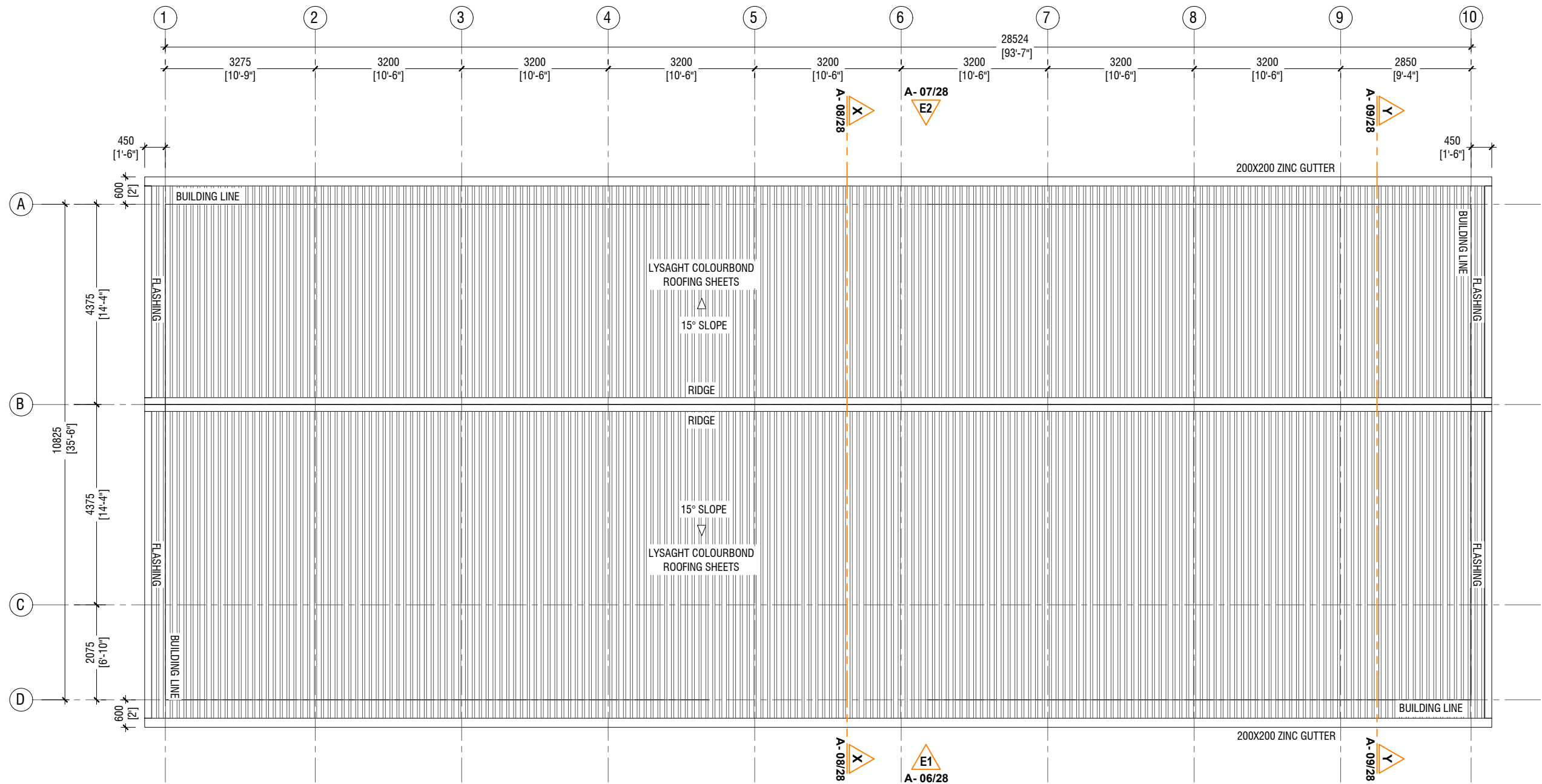
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DATE : 22.05.2022

AMENDMENTS

| Issue | Date | Description |
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| | | |

DWG NO : A - 04/ 28



ROOF PLAN

SCALE 1:100



NOTE:

ROOF SLOPE : 15° SLOPE

ROOF MATERIAL : LYSAGHT COLOURBOND ROOFING SHEETS



PHYSICAL FACILITIES DEVELOPMENT
SECTION
MINISTRY OF EDUCATION,
MALE,
REPUBLIC OF MALDIVES

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N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

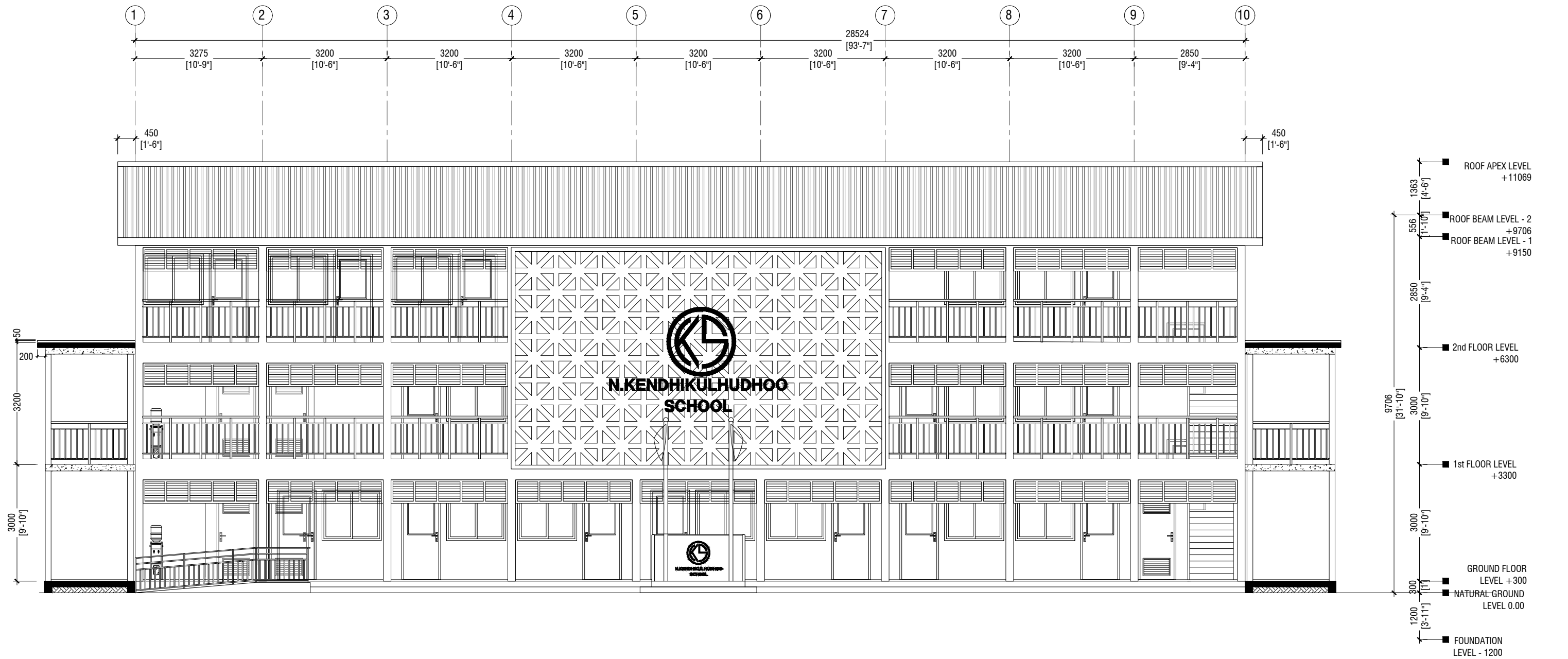
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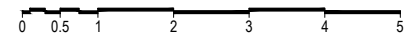
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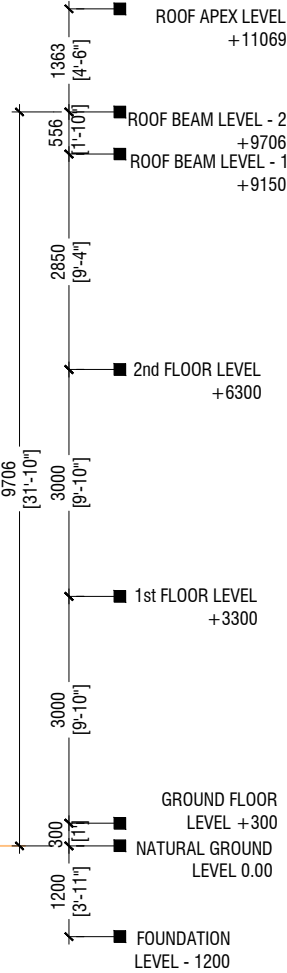
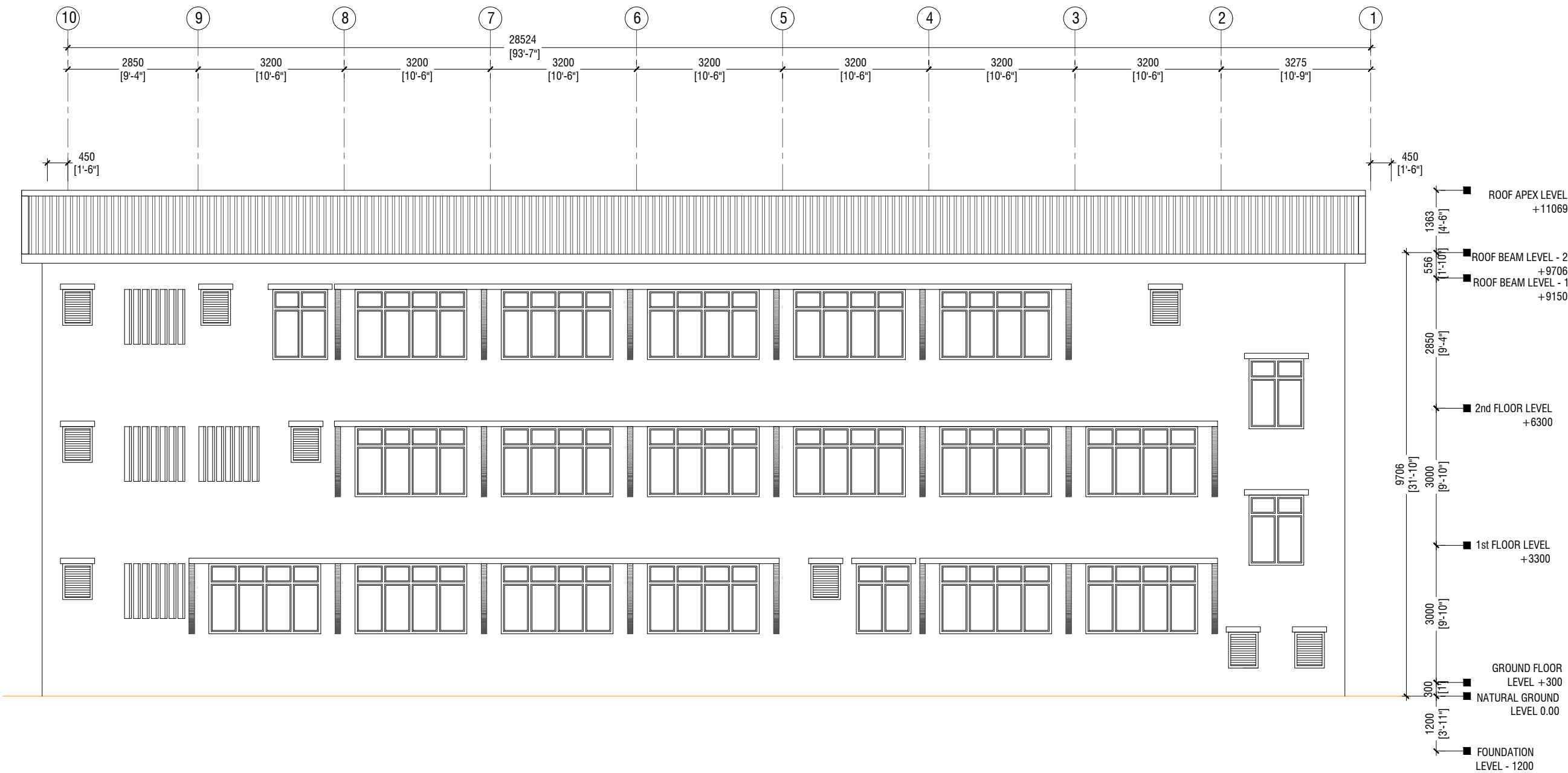
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ELEVATION E1

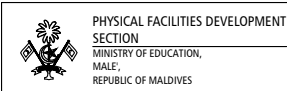
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ELEVATION E2

SCALE 1:100



PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

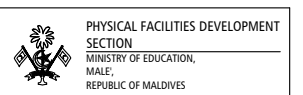
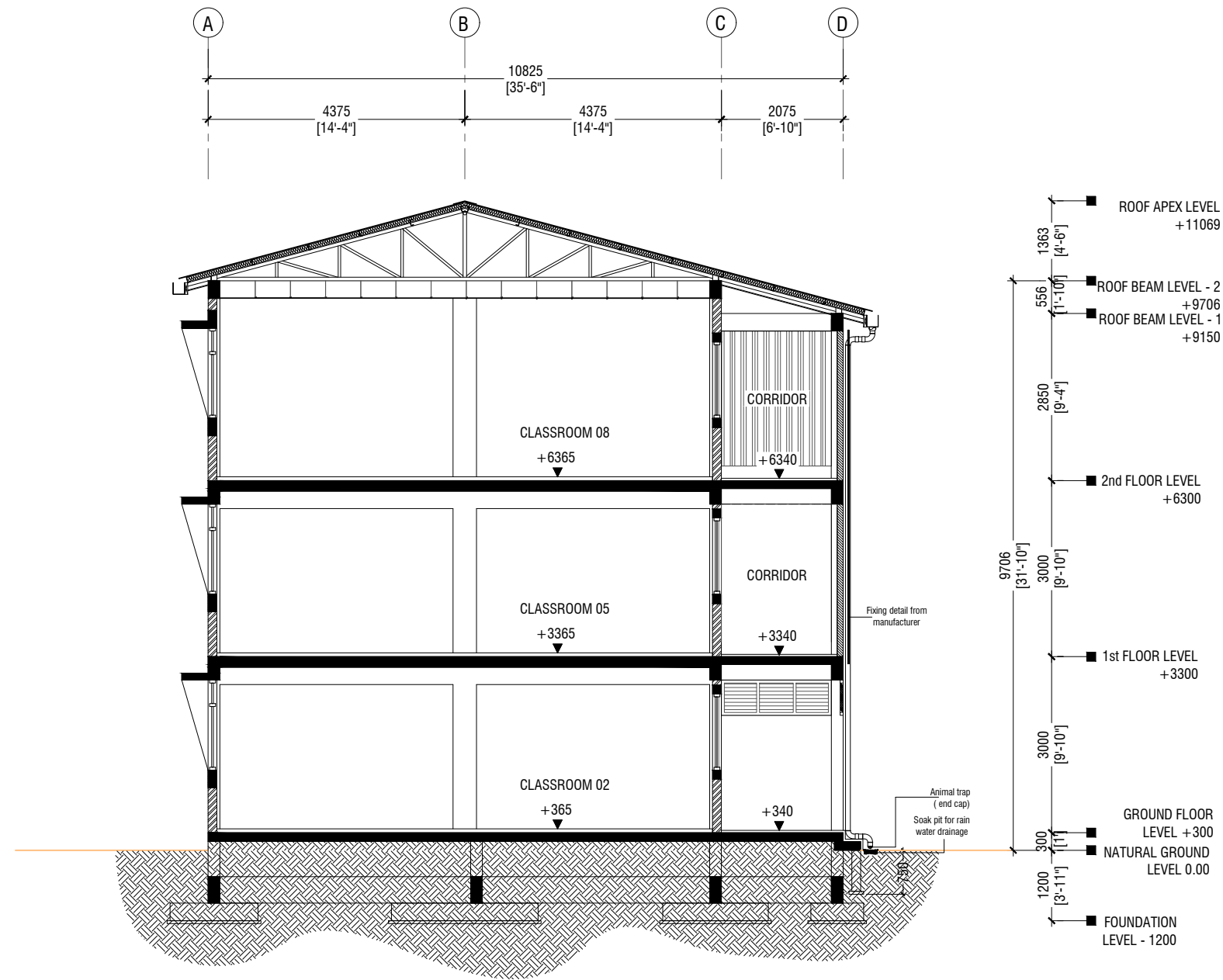
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DATE : 22.05.2022

AMENDMENTS

| Issue | Date | Description |
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DWG NO : A - 07/ 28



PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

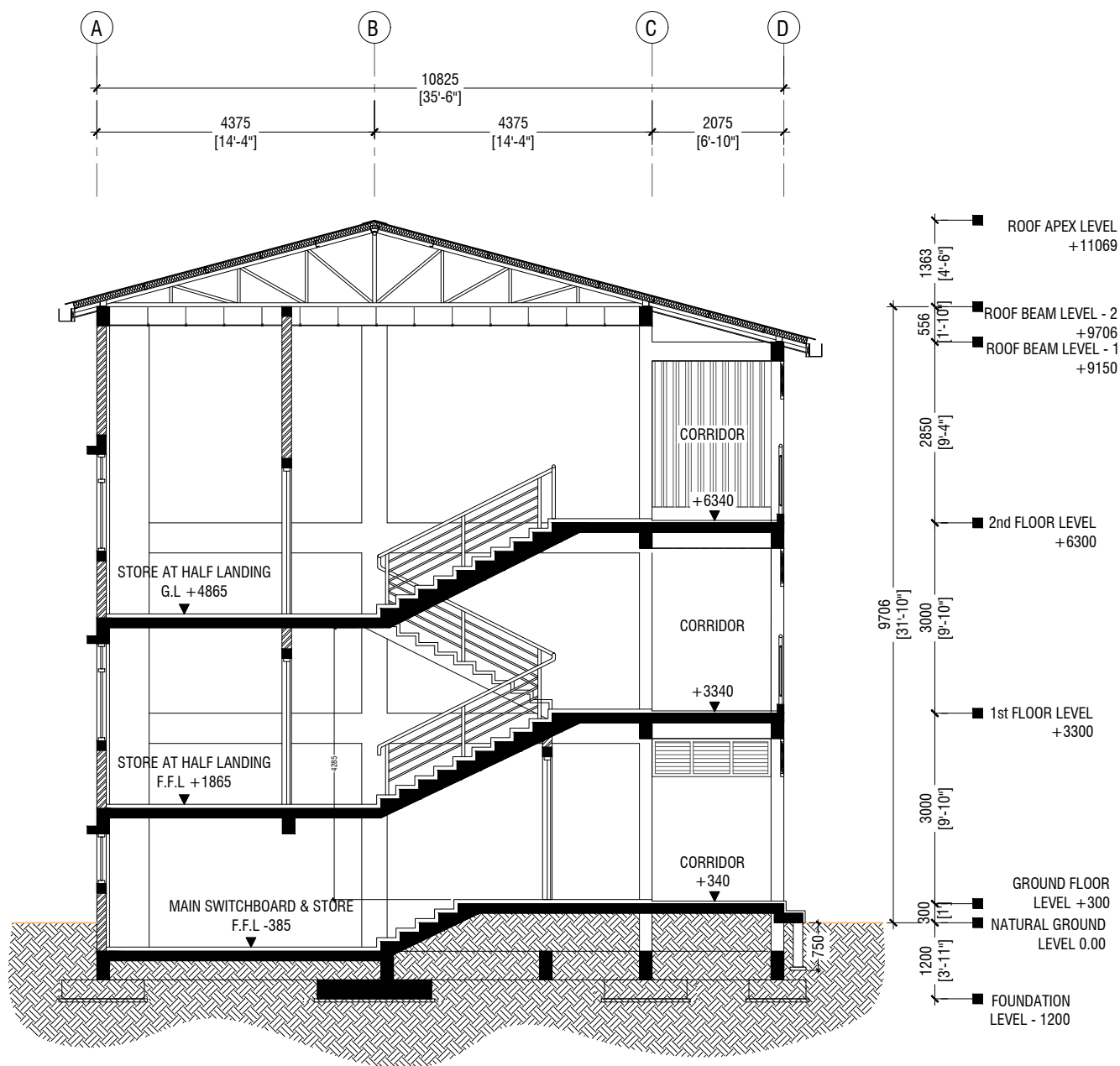
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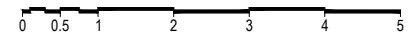
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DWG NO : A - 08/ 28

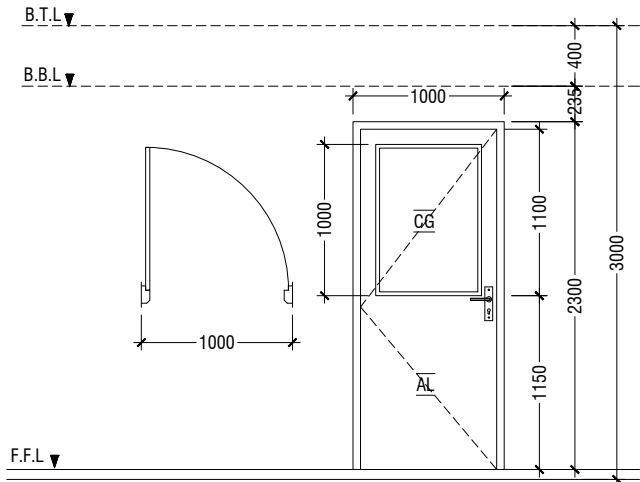


SECTION Y-Y

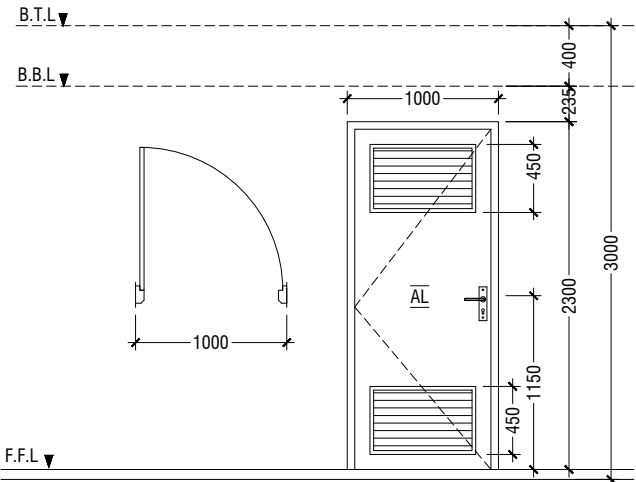
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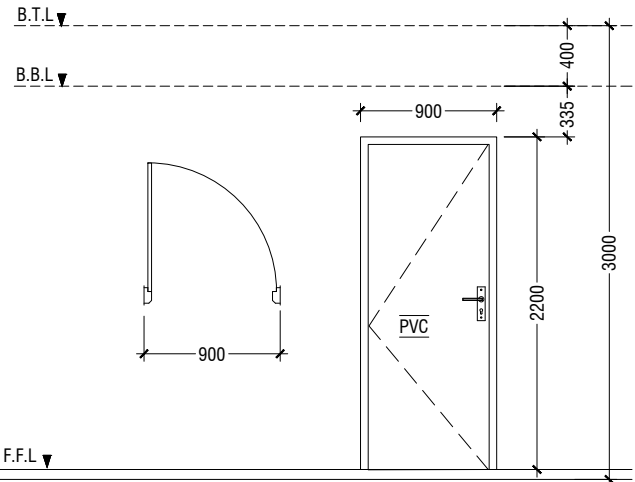
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|  PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES | | |
| PROJECT : 03 CLASSROOM BLOCK N.KENDHIKOLHUDHOO (03 storey) | | |
| PROJECT REFERENCE : _____ | | |
| ARCHITECT : MOE _____ | | |
| ENGINEER : MOE _____ | | |
| DRAWN : MOE _____ | | |
| CHECKED : MOE _____ | | |
| SCALE : AS GIVEN | | |
| DATE : 22.05.2022 | | |
| AMENDMENTS | | |
| Issue | Date | Description |
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| DWG NO : A - 09/ 28 | | |



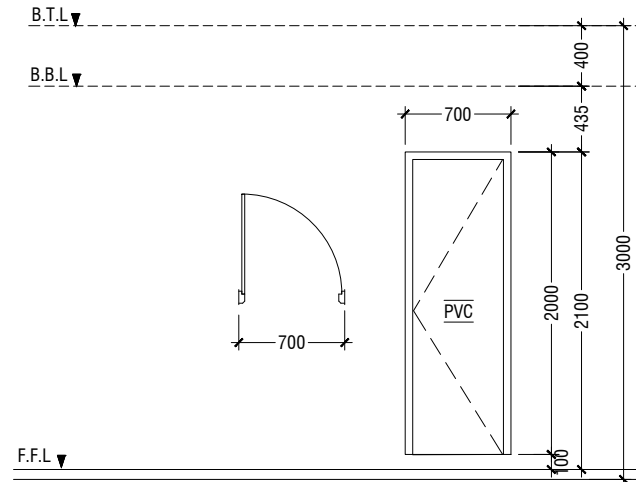
| | |
|-----------|--|
| D1 | SWING DOOR |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND 6mm THICK CLEAR GLASS |
| LOCATION | CLASSROOMS & HALF LANDING STORE ROOM |
| QUANTITY | 20 NOS |
| OPEN AREA | 2.03 sqm |



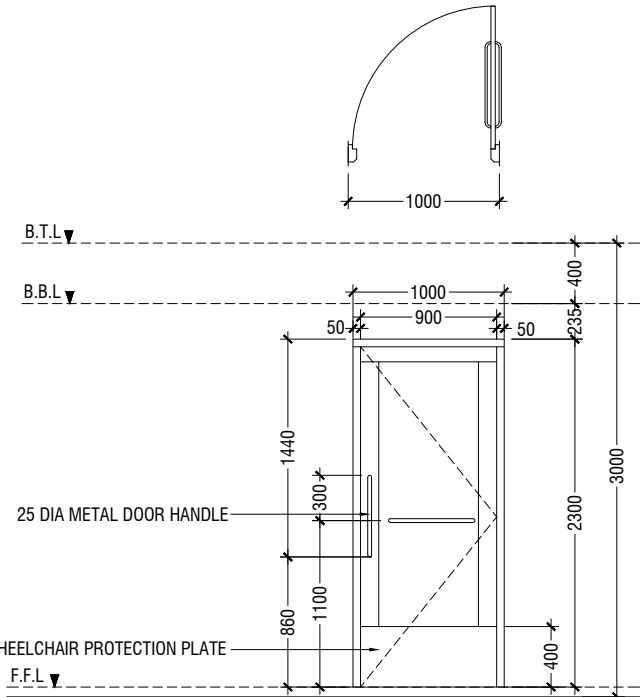
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| D2 | SWING DOOR WITH ALUMINIUM LOUVERS |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND ALUMINUM LOUVERS |
| LOCATION | TOILETS & MAIN SWITCH BOARD STORE |
| QUANTITY | 07 NOS |
| OPEN AREA | 2.03 sqm |



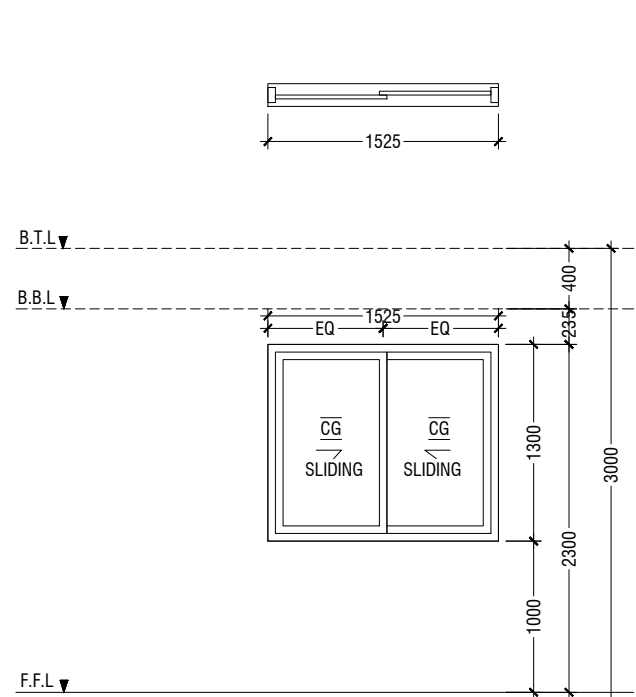
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|-----------|---------------------------|
| D3 | PVC SWING DOOR |
| REMARKS | PVC WHITE FRAME AND PANEL |
| LOCATION | STORE & CLEANER CLOSET |
| QUANTITY | 06 NOS |
| OPEN AREA | 1.72 SQM |



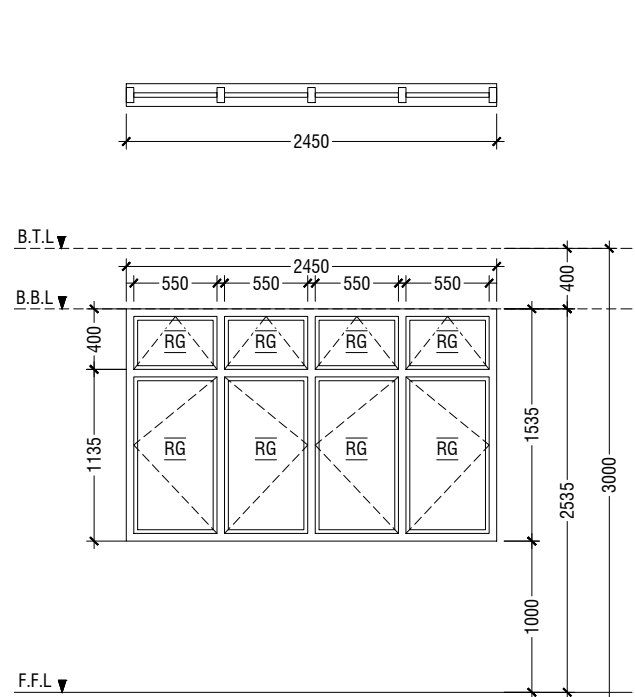
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|-----------|---------------------------|
| D4 | PVC SWING DOOR |
| REMARKS | PVC WHITE FRAME AND PANEL |
| LOCATION | TOILETS STALLS |
| QUANTITY | 15 NOS |
| OPEN AREA | 1.17 SQM |



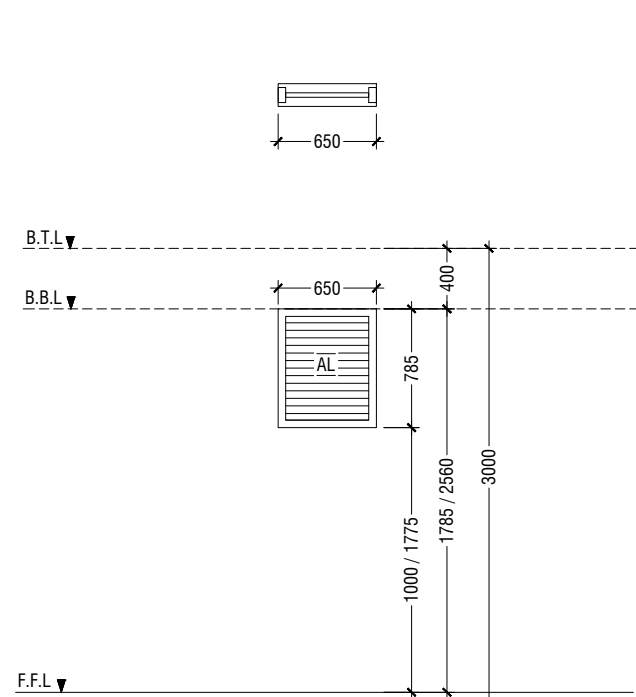
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|-----------|--|
| D5 | SWING DOOR |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL |
| LOCATION | DISABLED TOILET |
| QUANTITY | 01 NOS |
| OPEN AREA | 2.03 sqm |



| | |
|-----------|--|
| W1 | SLIDING WINDOW |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND 6mm THICK CLEAR GLASS |
| LOCATION | CLASSROOMS |
| QUANTITY | 18 NOS |
| OPEN AREA | 0.83 sqm |



| | |
|-----------|--|
| W2 | SWING WINDOW |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS |
| LOCATION | CLASSROOMS |
| QUANTITY | 18 NOS |
| OPEN AREA | 3.04 sqm |

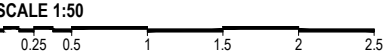


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|-----------|--|
| W3 | WINDOW WITH ALUMINIUM LOUVERS |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM LOUVERS |
| LOCATION | TOILETS & MAIN SWITCH BOARD STORE |
| QUANTITY | 08 NOS |
| OPEN AREA | 0.38 SQM |

- NOTE:-
1. FLOOR TO FLOOR HEIGHT VARIES AND WILL BE SUBJECTED TO CHANGES
 2. MAINTAIN FLOOR TO WINDOW SILL STANDARD HEIGHT REGULATION OF 1M.
 3. REFER TO ARCHITECT FOR FURTHER ASSISTANCE.
 4. ALL DOORS & WINDOWS TO BE CHECKED ON SITE BEFORE FABRICATION.
 5. ALL DOOR & WINDOWS VIEWED FROM EXTERIOR, FOR DOOR SWING, REFER TO FLOOR PLANS.
 6. THE DOORS / WINDOWS WHICH DO NOT TOUCH THE BEAM SHALL HAVE A LINTEL BEAM (LB) ABOVE THE DOOR / WINDOW.
 7. FOR ALL THE WINDOWS PUT A SILL BEAM BELOW THE WINDOW (SB)
 8. FOR SAFETY PURPOSES REFER TO TECHNICAL SPECIFICATIONS FOR GLASS THICKNESS.

LEGEND:
CG - CLEAR GLASS
RG - REFLECTED GLASS
AL - ALUMINIUM
PVC - POLYVINYL CHLORIDE

DOOR & WINDOW SCHEDULE - 1



PHYSICAL FACILITIES DEVELOPMENT
SECTION
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PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

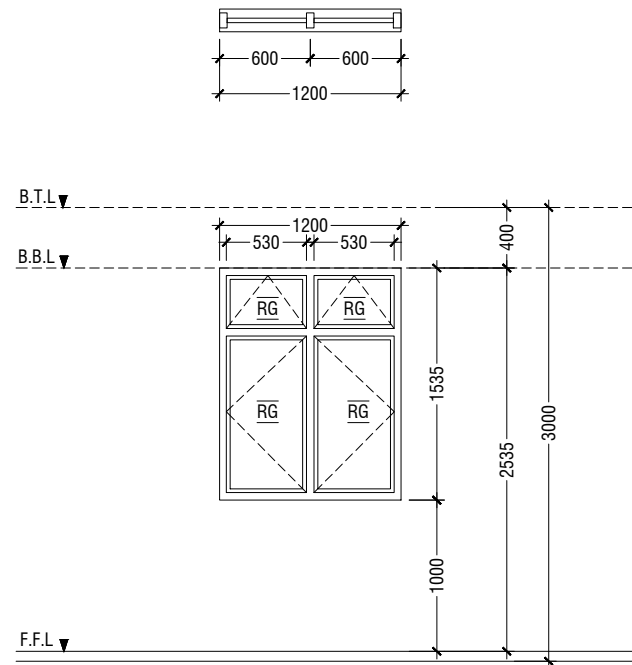
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DATE : 22.05.2022

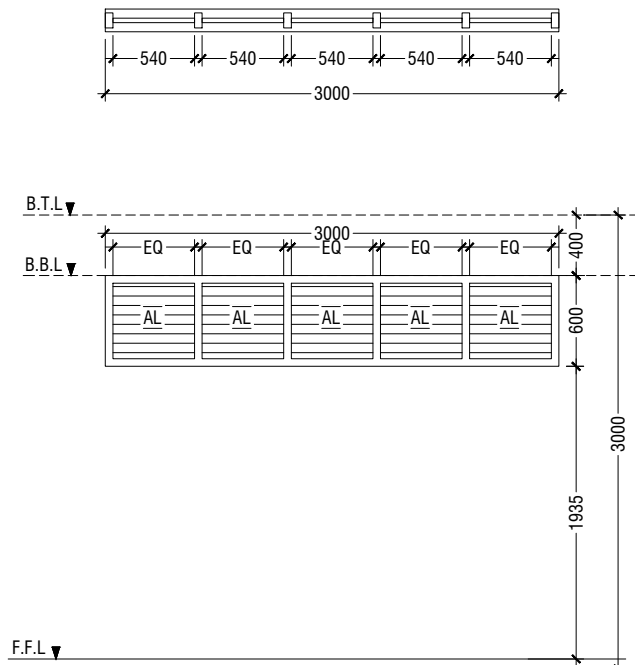
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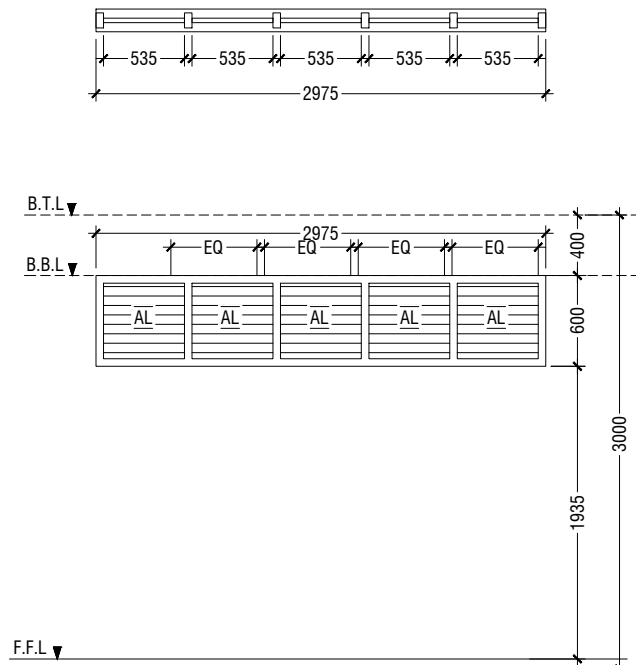
DWG NO : A - 10/ 28



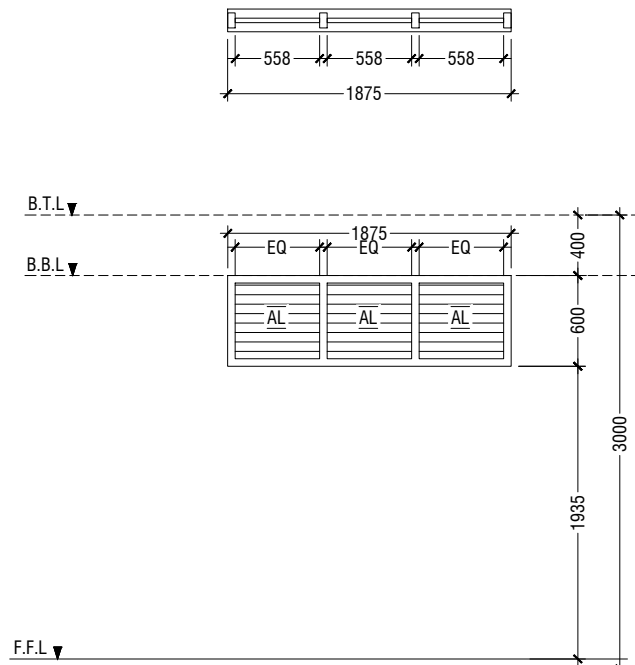
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|-----------|--|
| W4 | SWING WINDOW |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS |
| LOCATION | HALF LANDING STORE ROOM |
| QUANTITY | 02 NOS |
| OPEN AREA | 1.43 sqm |



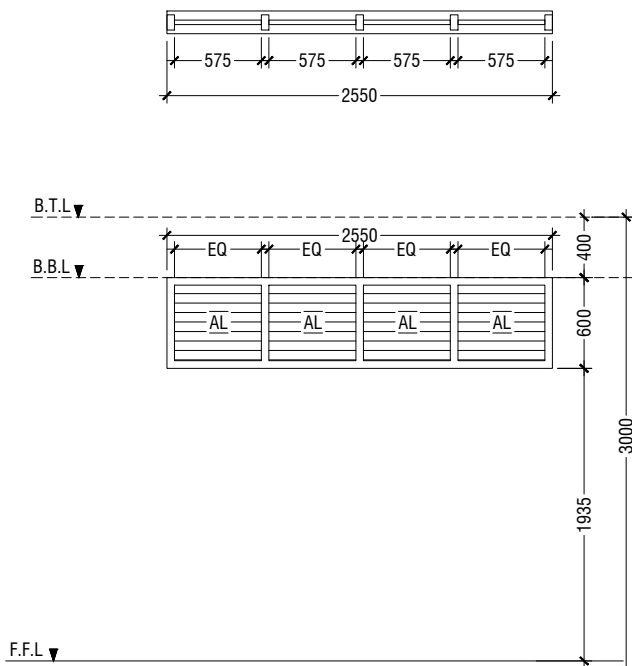
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|-----------|---|
| V1 | SUNSHADING |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS |
| LOCATION | CORRIDOR |
| QUANTITY | 21 NOS |
| OPEN AREA | 1.35 SQM |



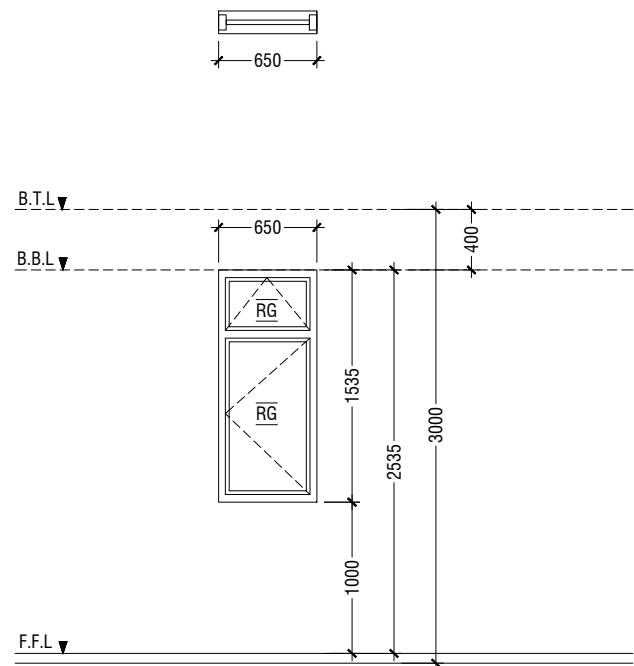
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|-----------|---|
| V2 | SUNSHADING |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS |
| LOCATION | CORRIDOR |
| QUANTITY | 03 NOS |
| OPEN AREA | 1.35 SQM |



| | |
|-----------|---|
| V3 | SUNSHADING |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS |
| LOCATION | CORRIDOR |
| QUANTITY | 02 NOS |
| OPEN AREA | 0.84 SQM |



| | |
|-----------|---|
| V4 | SUNSHADING |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS |
| LOCATION | CORRIDOR |
| QUANTITY | 03 NOS |
| OPEN AREA | 1.15 SQM |



| | |
|-----------|--|
| W5 | SWING WINDOW |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS |
| LOCATION | BATHROOM ENTRANCE WALKWAY |
| QUANTITY | 01 NOS |
| OPEN AREA | 0.83 sqm |

- NOTE:-
1. FLOOR TO FLOOR HEIGHT VARIES AND WILL BE SUBJECTED TO CHANGES
 2. MAINTAIN FLOOR TO WINDOW SILL STANDARD HEIGHT REGULATION OF 1M.
 3. REFER TO ARCHITECT FOR FURTHER ASSISTANCE.
 4. ALL DOORS & WINDOWS TO BE CHECKED ON SITE BEFORE FABRICATION.
 5. ALL DOOR & WINDOWS VIEWED FROM EXTERIOR, FOR DOOR SWING, REFER TO FLOOR PLANS.
 6. THE DOORS / WINDOWS WHICH DO NOT TOUCH THE BEAM SHALL HAVE A LINTEL BEAM (LB) ABOVE THE DOOR / WINDOW.
 7. FOR ALL THE WINDOWS PUT A SILL BEAM BELOW THE WINDOW (SB)
 8. FOR SAFETY PURPOSES REFER TO TECHNICAL SPECIFICATIONS FOR GLASS THICKNESS.

LEGEND:

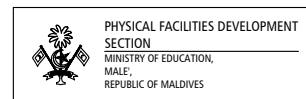
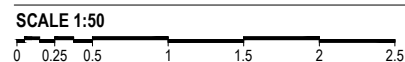
CG - CLEAR GLASS

RG - REFLECTED GLASS

AL - ALUMINIUM

PVC - POLYVINYL CHLORIDE

DOOR & WINDOW SCHEDULE - 2



PROJECT : **03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)**

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

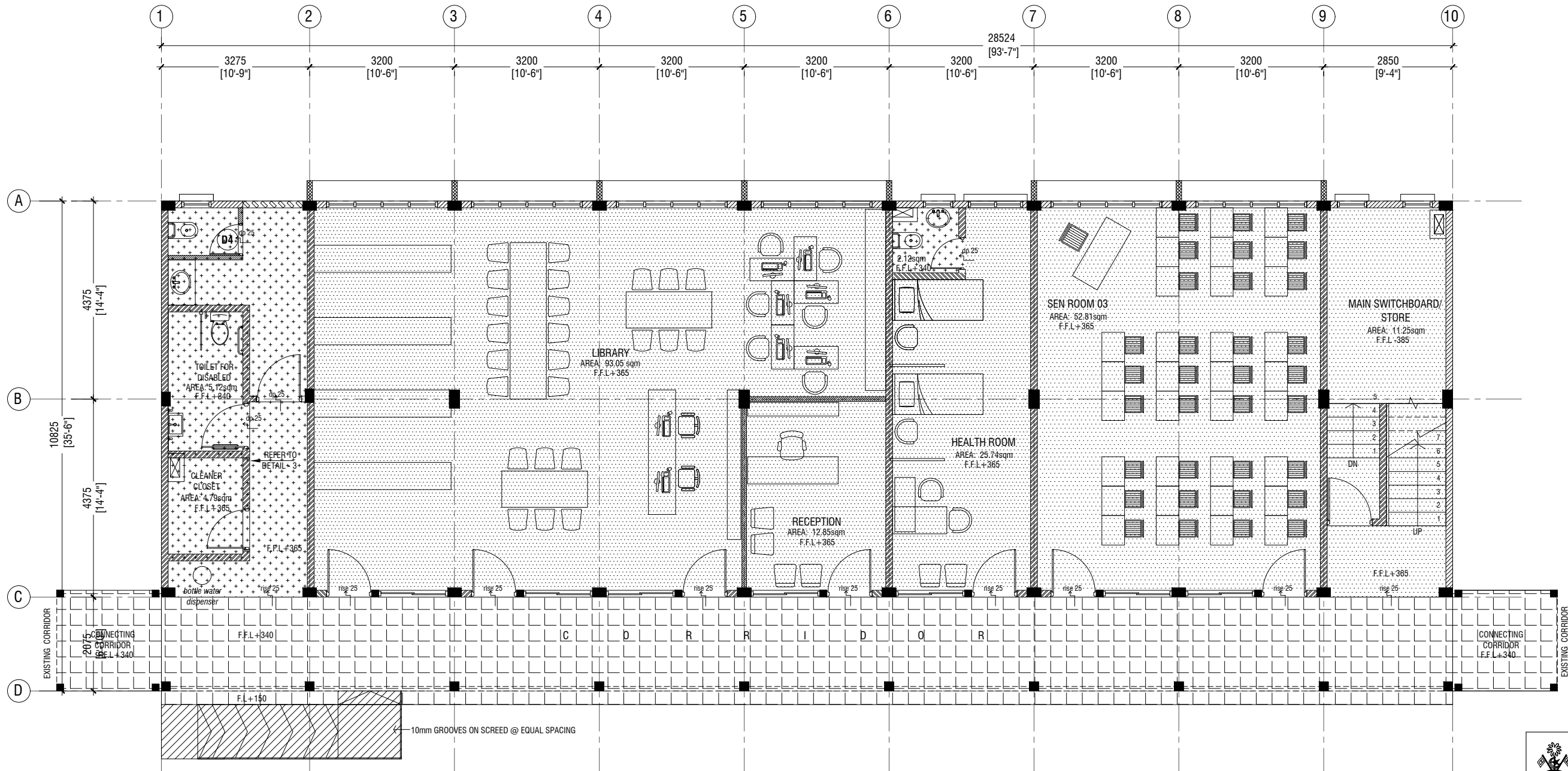
SCALE : AS GIVEN

DATE : 22.05.2022

AMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |

DWG NO : **A - 11/ 28**



**GROUND FLOOR
FLOOR FINISHES PLAN**

SCALE 1:100
0 0.5 1 2 3 4 5

LEGEND

| CODE | DESCRIPTION | CODE | DESCRIPTION |
|------|---|------|--|
| | 600X600mm HOMOGENOUS NON-SLIP TILES OVER 50mm SCREEDING | | 600X600mm HOMOGENOUS NON-SLIP TILES OVER 25mm SCREEDING (CEMENTITIOUS WATERPROOFING: MASTERPEL 588 OR EQUIVALENT ON TOP OF THE SLAB) |
| | 2.5mm SELF LEVELING CEMENT WITH EPOXY FLOOR PAINT (2 COATS EPOXY) | | |
| | 300X300mm HOMOGENOUS NON-SLIP TILES OVER 25mm SCREEDING | | |

PHYSICAL FACILITIES DEVELOPMENT
SECTION
MINISTRY OF EDUCATION,
MALE,
REPUBLIC OF MALDIVES

PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

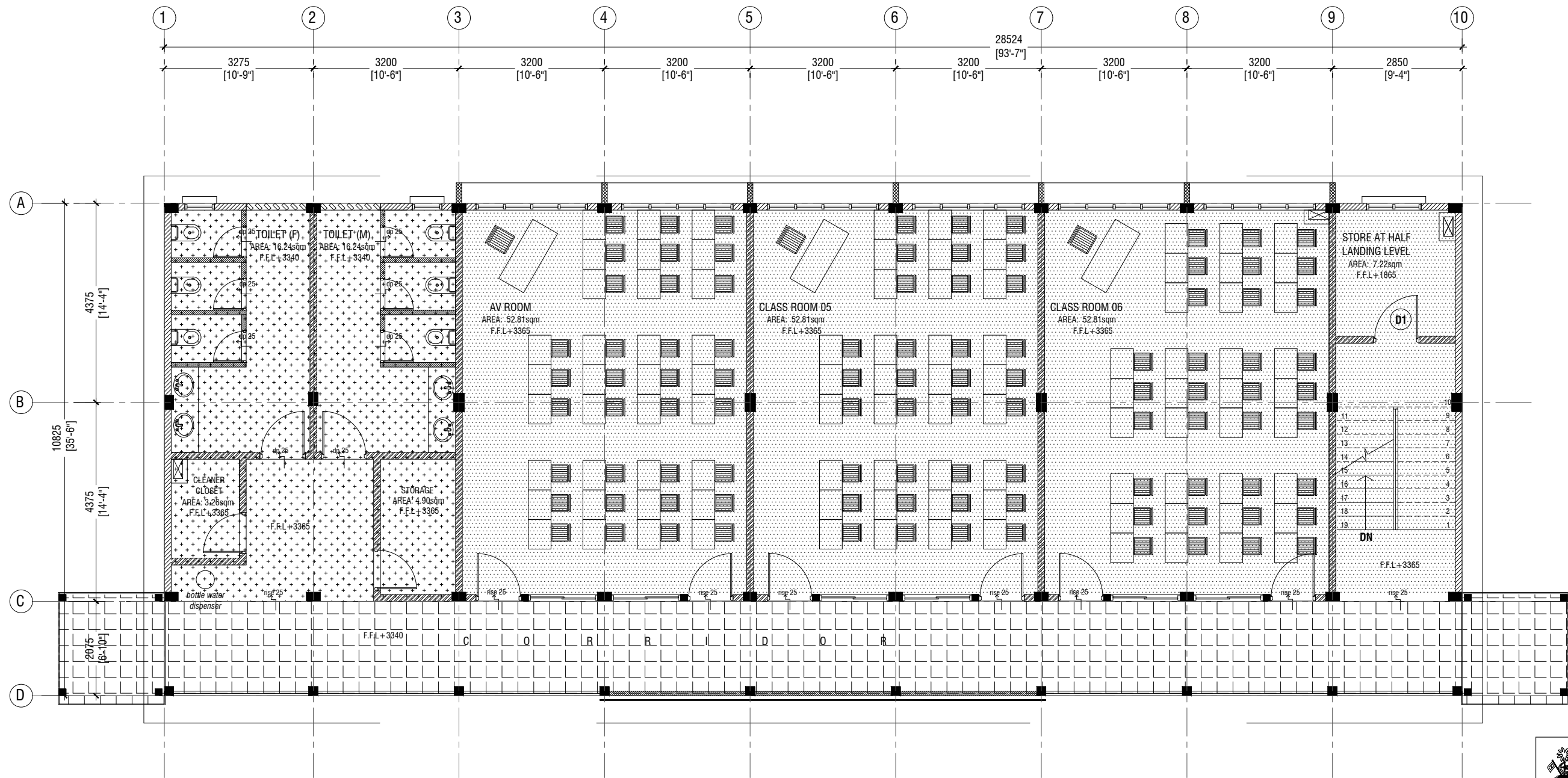
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DATE : 22.05.2022

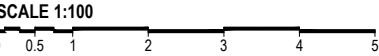
AMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |

DWG NO : A - 12/ 28



**FIRST FLOOR
FLOOR FINISHES PLAN**



LEGEND

| CODE | DESCRIPTION | CODE | DESCRIPTION |
|------|--|------|--|
| | 600X600mm HOMOGENOUS NON-SLIP TILES OVER 50mm SCREEDING | | 300X300mm HOMOGENOUS NON-SLIP TILES OVER 25mm SCREEDING |

PHYSICAL FACILITIES DEVELOPMENT
SECTION
MINISTRY OF EDUCATION,
MALE
REPUBLIC OF MALDIVES

PROJECT : **03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)**

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

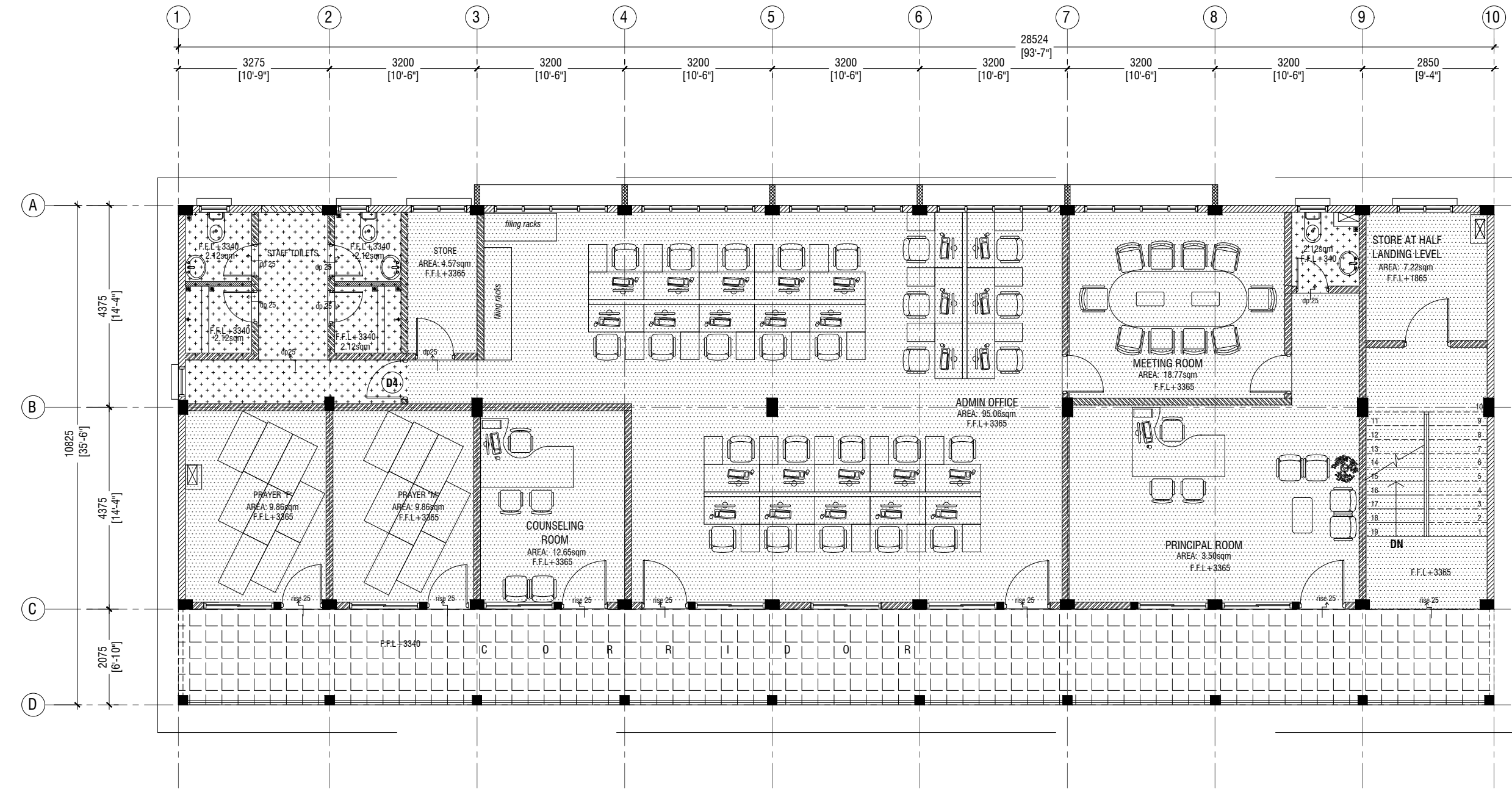
SCALE : AS GIVEN

DATE : 22.05.2022

AMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |

DWG NO : **A - 13/ 28**



SECOND FLOOR FLOOR FINISHES PLAN

SCALE 1:100



LEGEND

| CODE | DESCRIPTION | CODE | DESCRIPTION |
|------|---|------|--|
| | 600X600mm HOMOGENOUS NON-SLIP TILES OVER 50mm SCREEDING | | 600X600mm HOMOGENOUS NON-SLIP TILES OVER 25mm SCREEDING (CEMENTITIOUS WATERPROOFING: MASTERPEL 588 OR EQUIVALENT ON TOP OF THE SLAB) |
| | 300X300mm HOMOGENOUS NON-SLIP TILES OVER 25mm SCREEDING | | |

PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

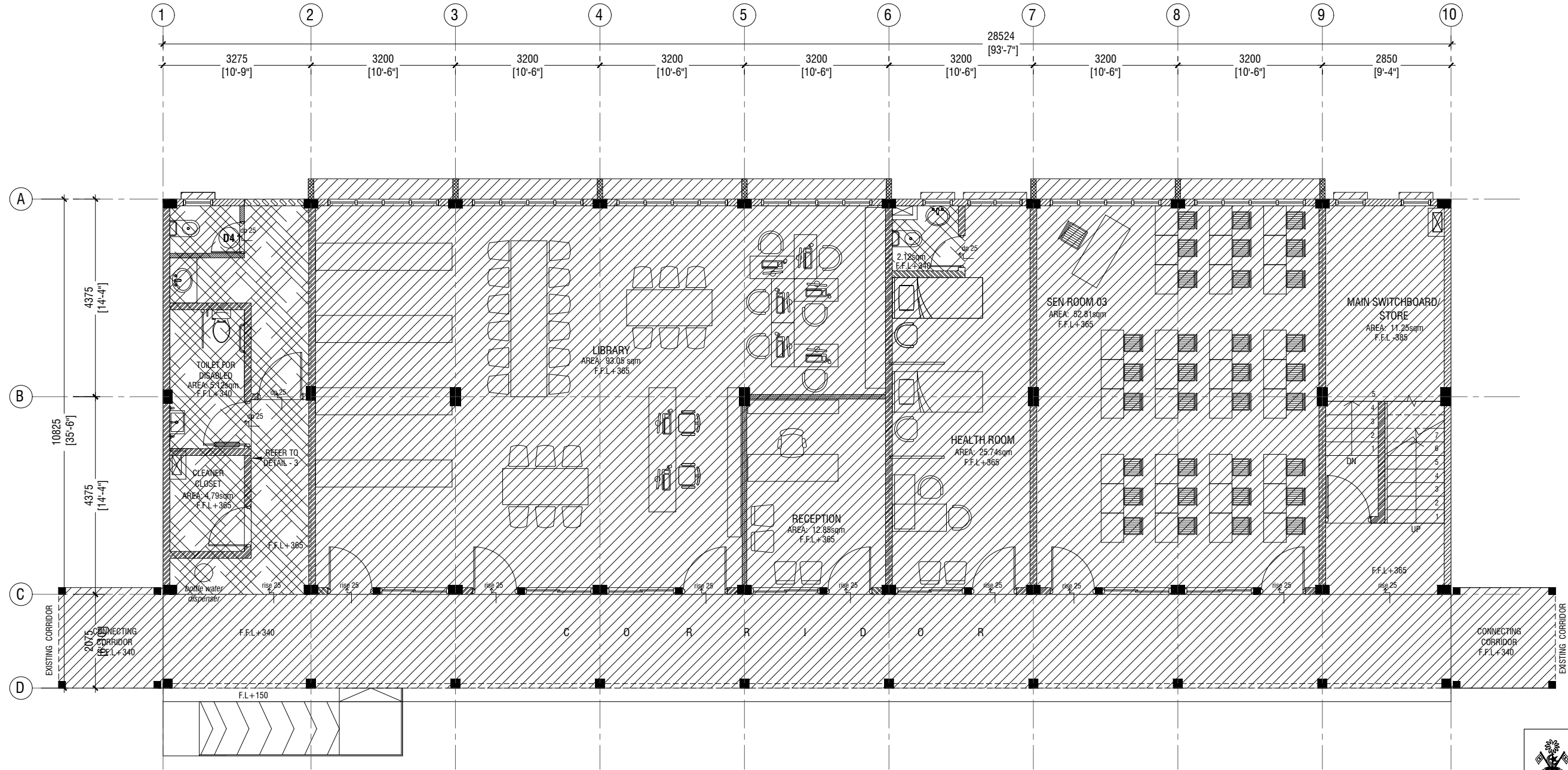
CHECKED : MOE

SCALE : AS GIVEN

DATE : 22.05.2022

AMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |



**GROUND FLOOR
REFLECTED CEILING PLAN**

SCALE 1:100

LEGEND

| CODE | DESCRIPTION |
|------|---|
| | EXPOSED SLAB SOFFIT TO BE GROUND SMOOTH IN SELECT PAINT FINISH (ONE COAT OF PUTTY FOLLOWED BY SEALER AND 2 COATS OF PAINT) |
| | 6mm THICK CEMENT BOARD ON ROOF EAVE/GABLE CEILING (ONE COAT OF PUTTY FOLLOWED BY SEALER AND 2 COATS OF PAINT) |

PHYSICAL FACILITIES DEVELOPMENT
SECTION
MINISTRY OF EDUCATION,
MALE,
REPUBLIC OF MALDIVES

PROJECT : **03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)**

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

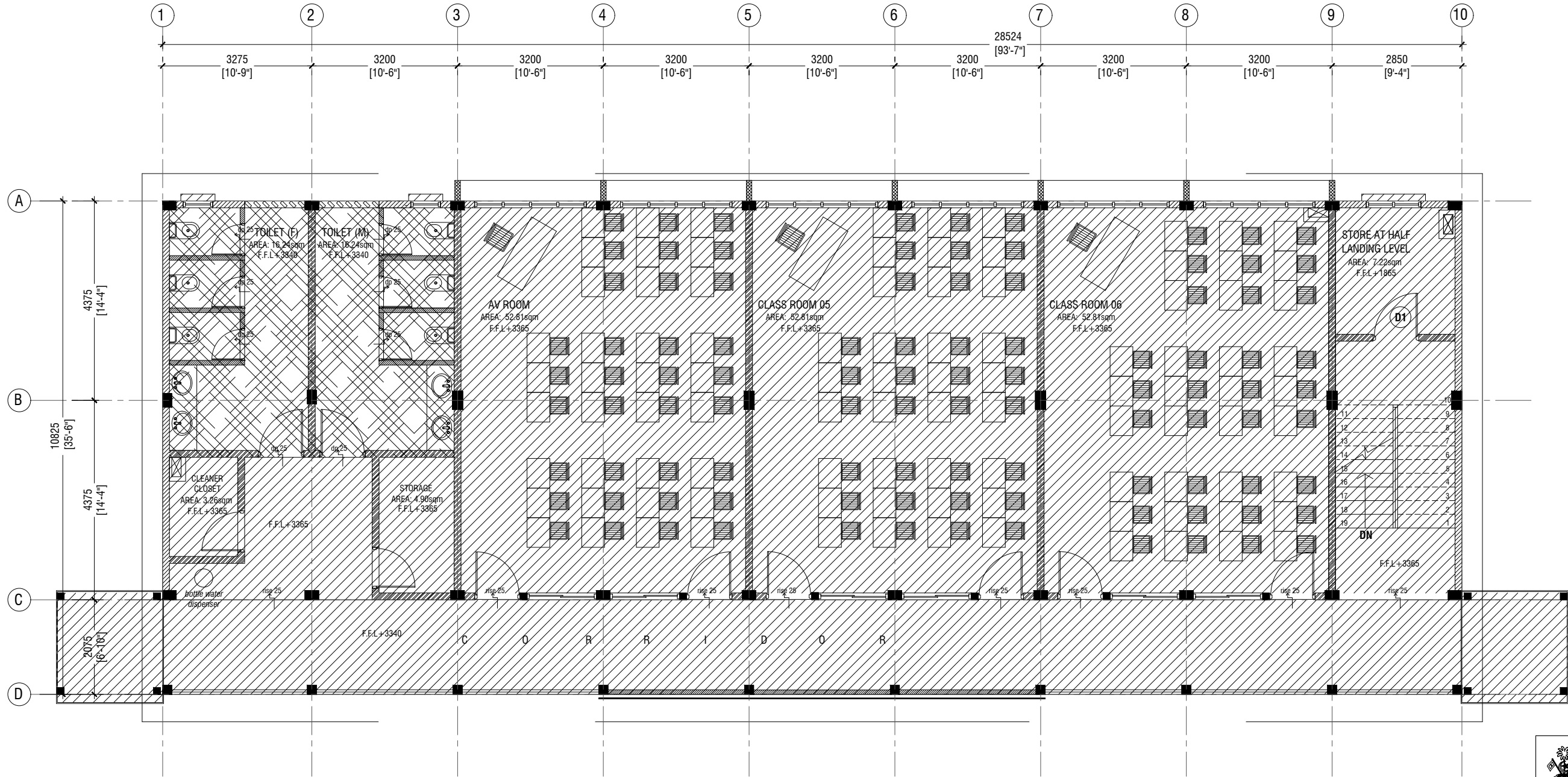
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DATE : 22.05.2022

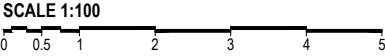
AMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |
| | | |

DWG NO : **A - 15/ 28**



**FIRST FLOOR
REFLECTED CEILING PLAN**



LEGEND

| CODE | DESCRIPTION |
|------|---|
| | EXPOSED SLAB SOFFIT TO BE GROUND SMOOTH IN SELECT PAINT FINISH (ONE COAT OF PUTTY FOLLOWED BY SEALER AND 2 COATS OF PAINT) |
| | 6mm THICK CEMENT BOARD ON ROOF EAVE/GABLE CEILING (ONE COAT OF PUTTY FOLLOWED BY SEALER AND 2 COATS OF PAINT) |

PHYSICAL FACILITIES DEVELOPMENT
SECTION
MINISTRY OF EDUCATION,
MALE,
REPUBLIC OF MALDIVES

PROJECT : **03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)**

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

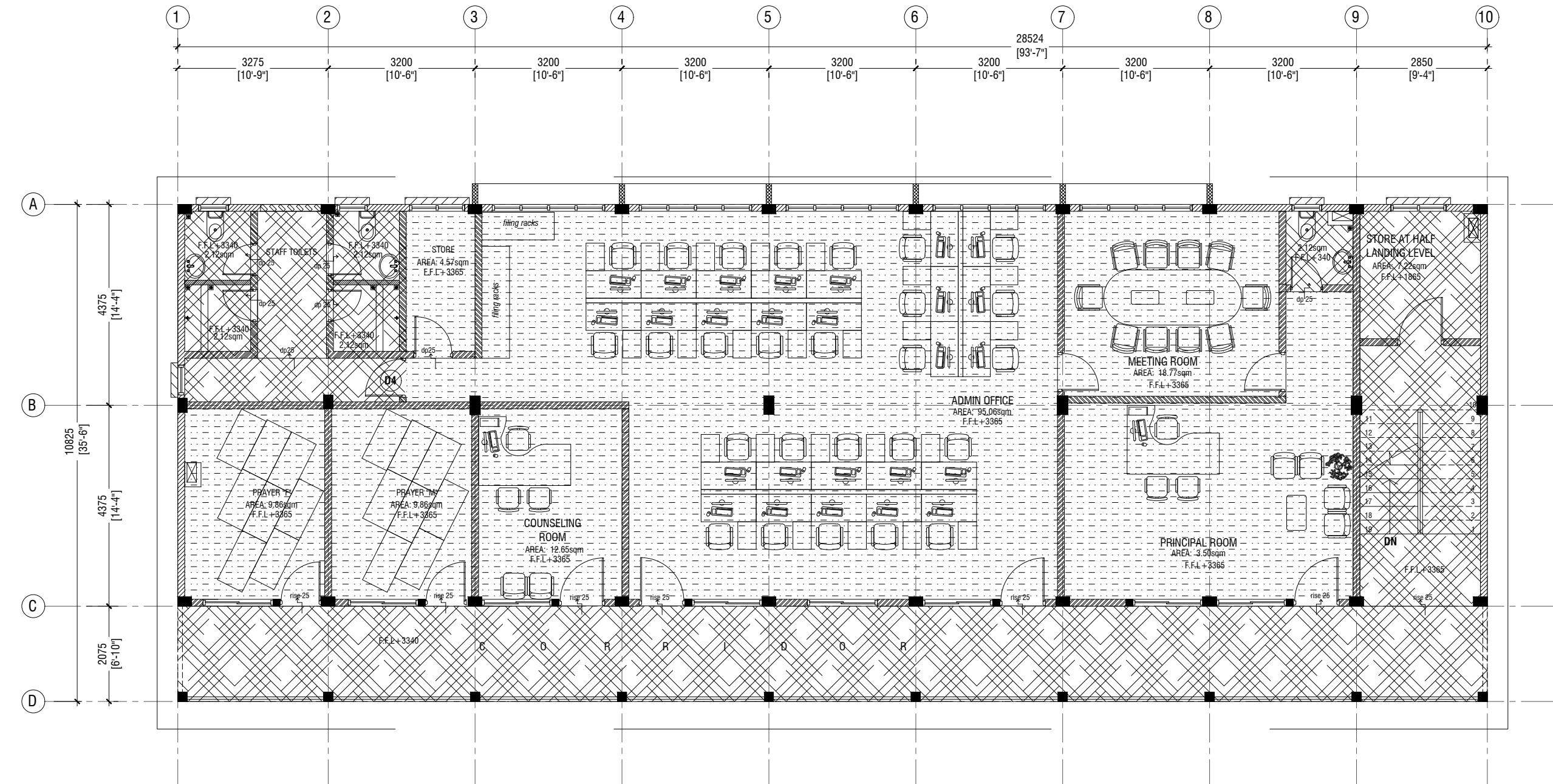
SCALE : AS GIVEN

DATE : 22.05.2022

AMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |

DWG NO : **A - 16/ 28**



SECOND FLOOR REFLECTED CEILING PLAN

SCALE 1:100



LEGEND

| CODE | DESCRIPTION |
|------|---|
| | 9mm THICK FIXED CEILING 'BORAL' OR EQUIVALENT PLASTERBOARD CEILING SYSTEM WITH TIMBER FRAMES, APPLIED WITH GROUND SMOOTH FINISH IN SELECTED PAINT |
| | 6mm THICK CEMENT BOARD ON ROOF EAVE/GABLE CEILING (ONE COAT OF PUTTY FOLLOWED BY SEALER AND 2 COATS OF PAINT) |

PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

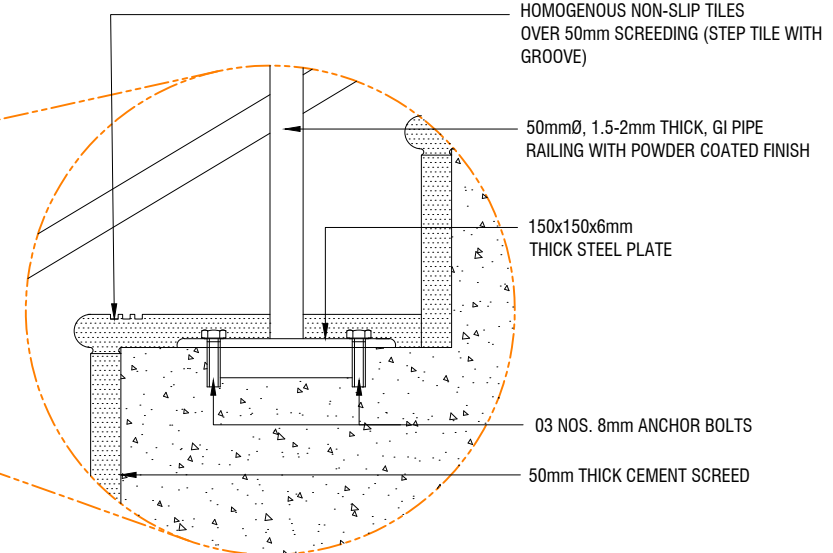
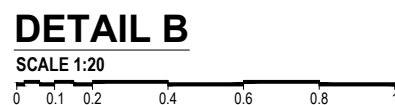
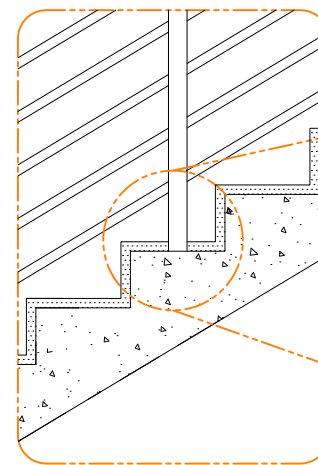
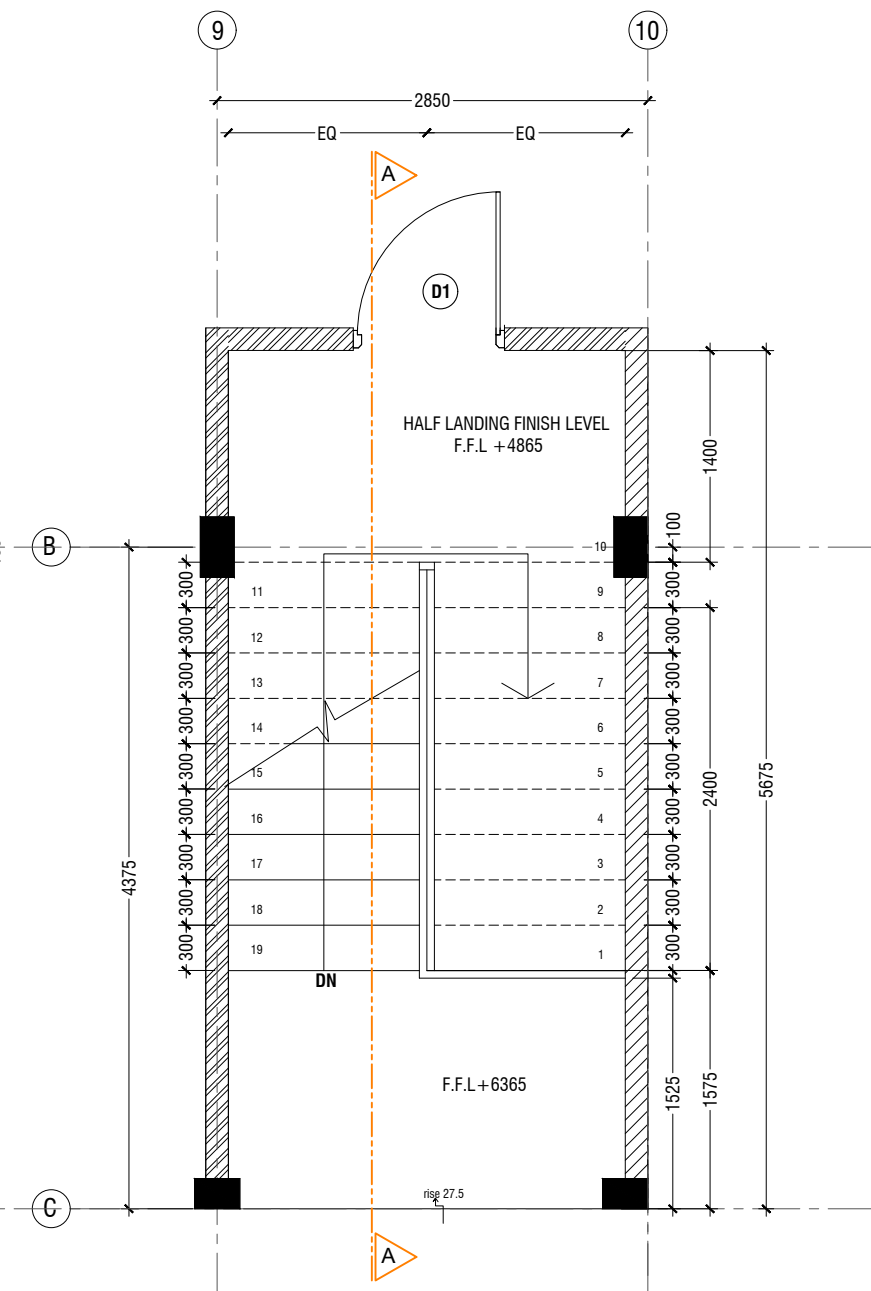
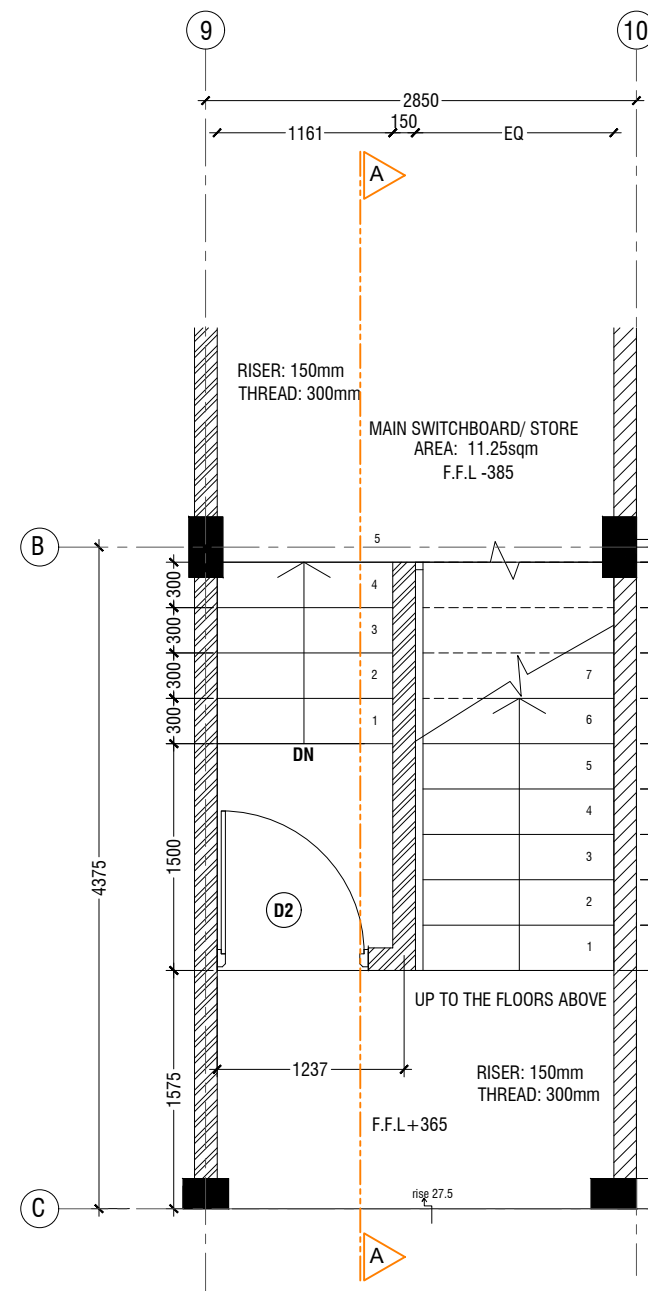
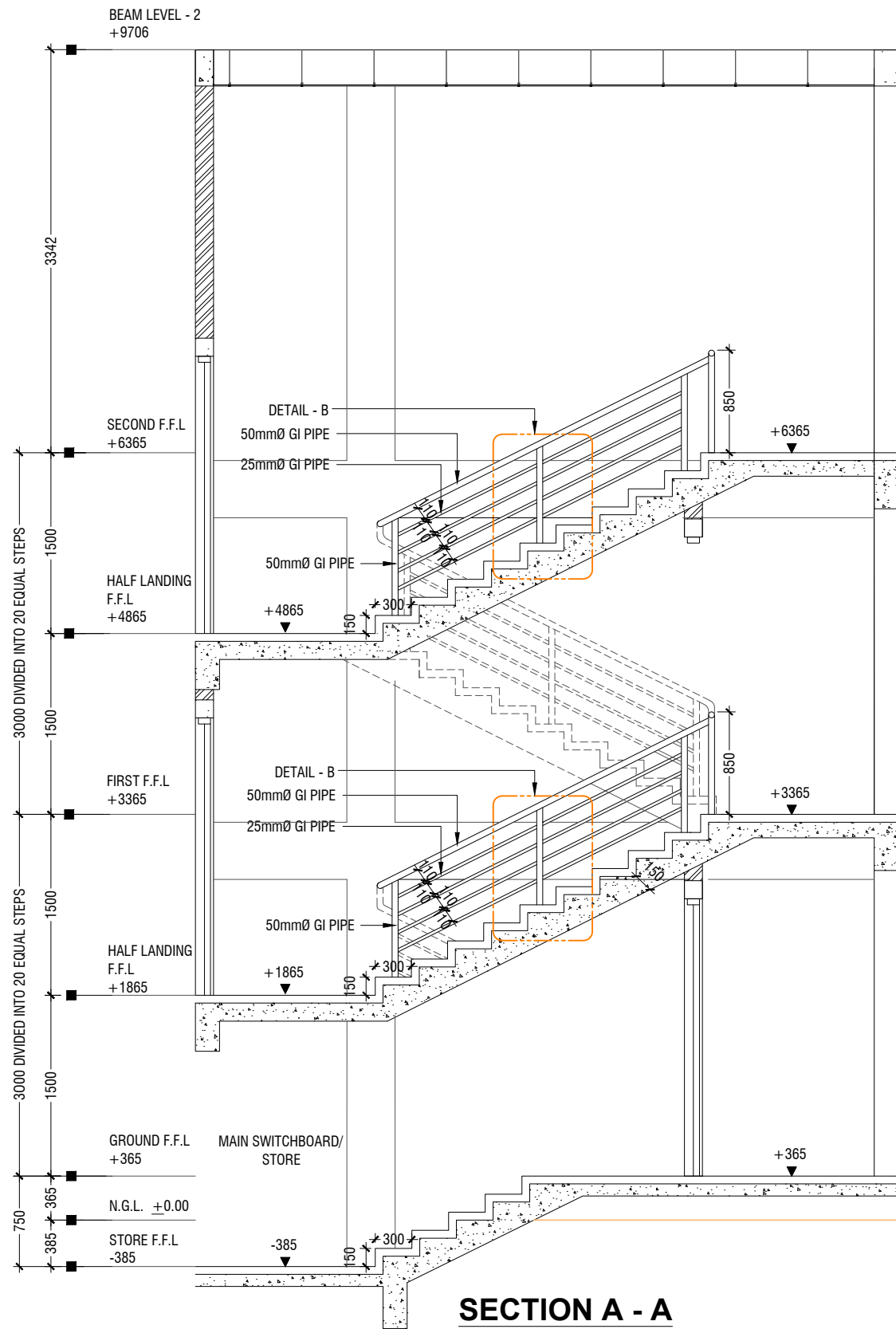
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DATE : 22.05.2022

AMENDMENTS

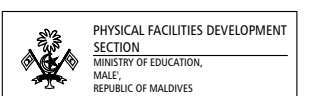
| Issue | Date | Description |
|-------|------|-------------|
| | | |

DWG NO : A - 17/ 28



STAIRCASE DETAIL - 1

SCALE 1:20



PHYSICAL FACILITIES DEVELOPMENT
SECTION
MINISTRY OF EDUCATION,
MALE,
REPUBLIC OF MALDIVES

PROJECT : **03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)**

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

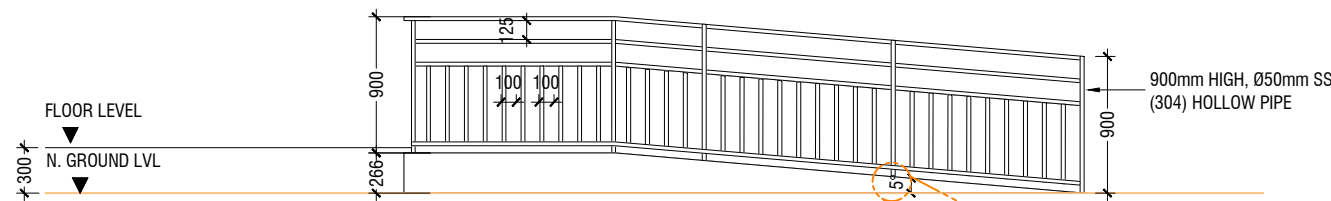
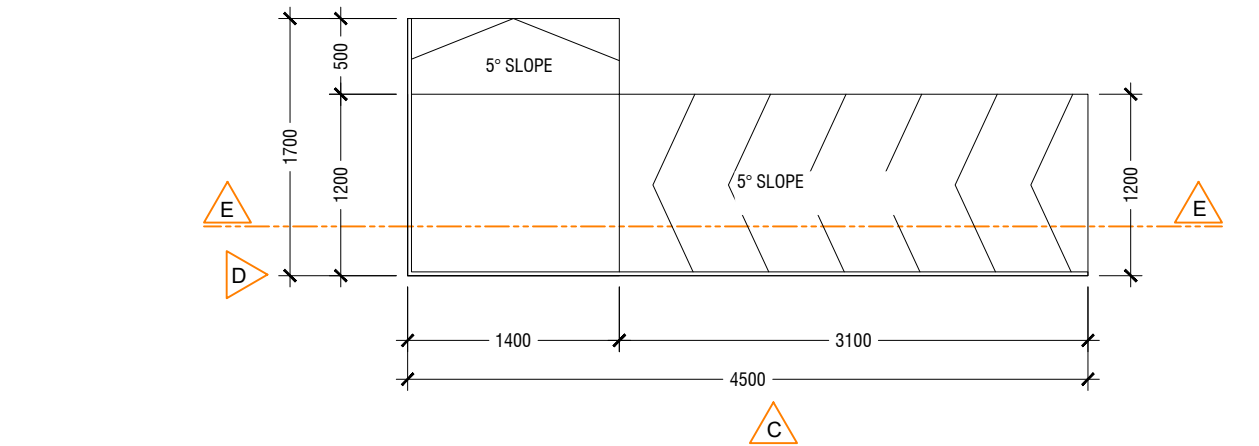
SCALE : AS GIVEN

DATE : 22.05.2022

AMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |
| | | |

DWG NO : **A - 18/ 28**



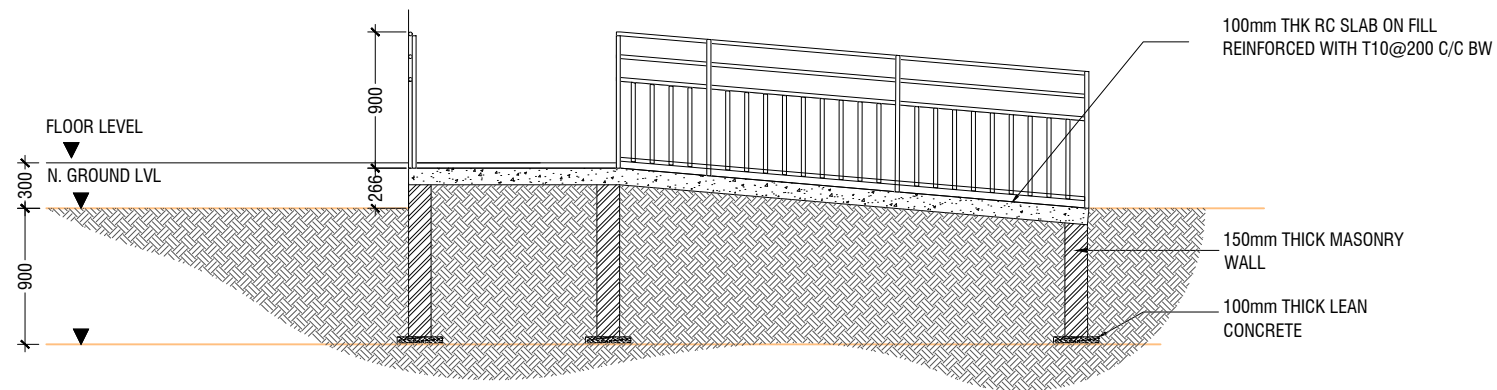
ELEVATION C

ELEVATION D

Ø50mm SS (304), 1.5-2mm THICK, HOLLOW PIPE
 4 NOS. 12mm ANCHOR BOLTS FIXED TO THE RC FLOOR
 WITH SS PLATE AND COVERED BY PLASTERING
 100mm THICK RC CONCRETE SLAB

DETAIL - 2
MAIN ENTRANCE RAMP DETAILS

SCALE 1:50
 0 0.25 0.5 1 1.5 2 2.5



SECTION E-E

PHYSICAL FACILITIES DEVELOPMENT
SECTION
MINISTRY OF EDUCATION,
MALE,
REPUBLIC OF MALDIVES

PROJECT : **03 CLASSROOM BLOCK**
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

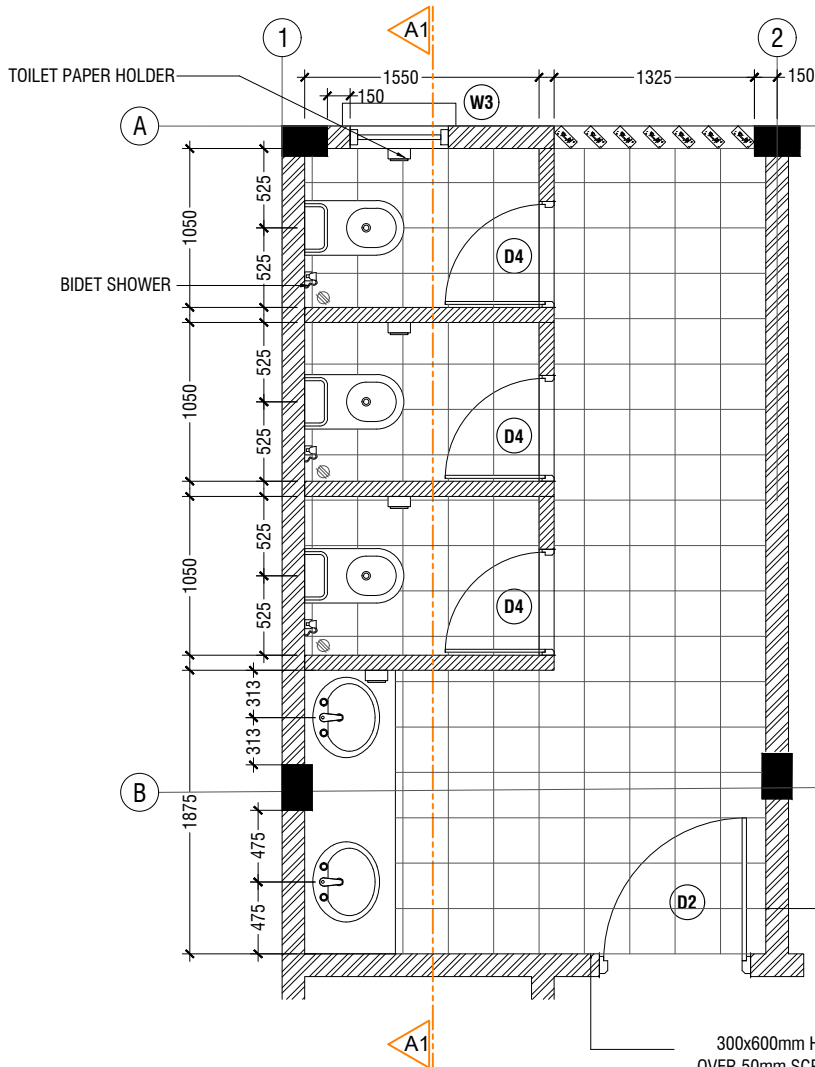
SCALE : AS GIVEN

DATE : 22.05.2022

AMENDMENTS

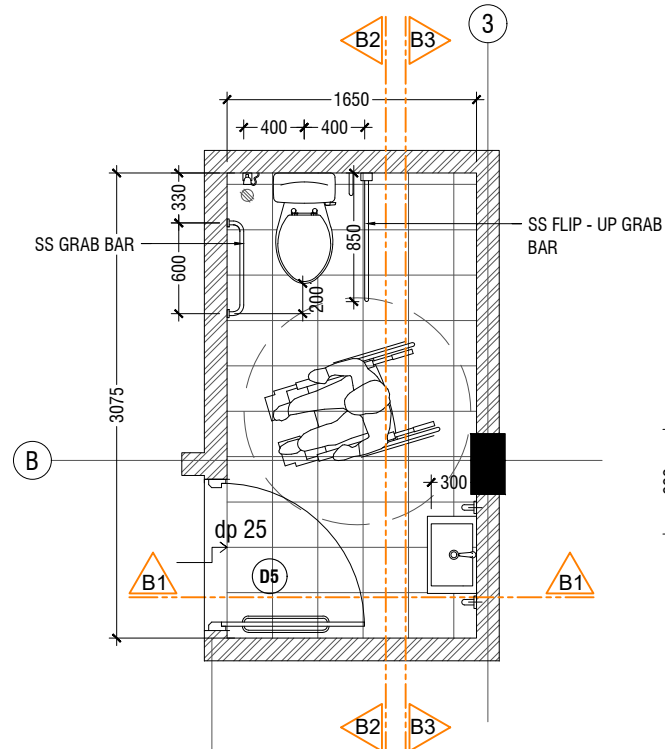
| Issue | Date | Description |
|-------|------|-------------|
| | | |

DWG NO : **A - 19/ 28**



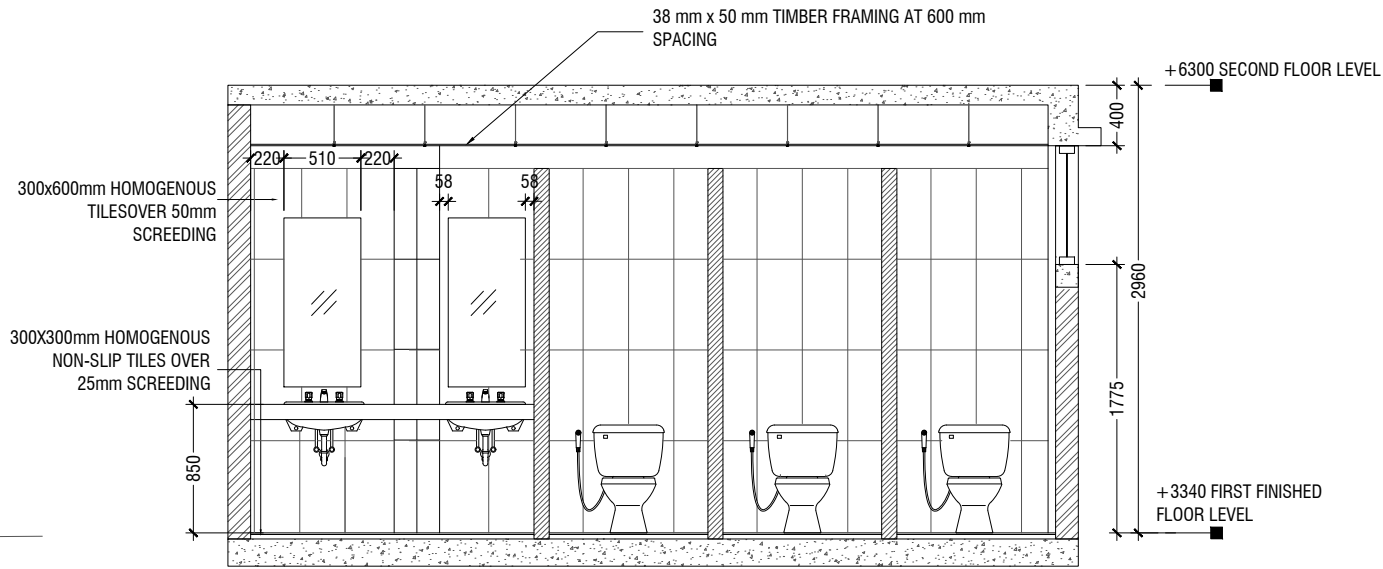
TYPICAL TOILET PLAN

SCALE 1:50



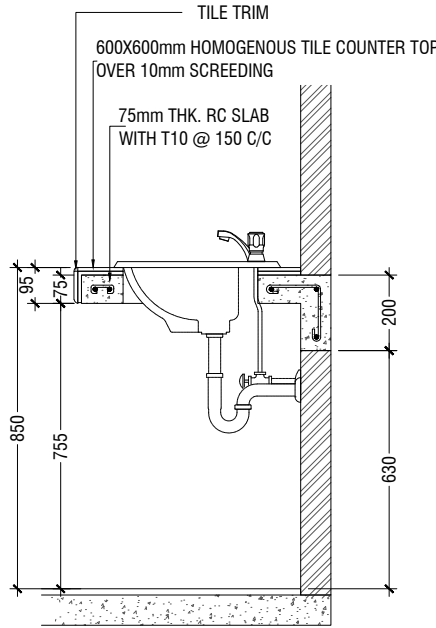
TOILET FOR PERSONS WITH DISABILITIES PLAN

SCALE 1:50



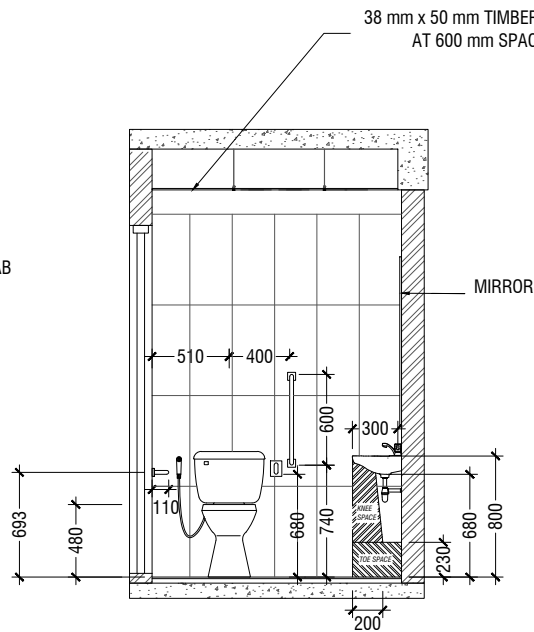
SECTION A1-A1

SCALE 1:50



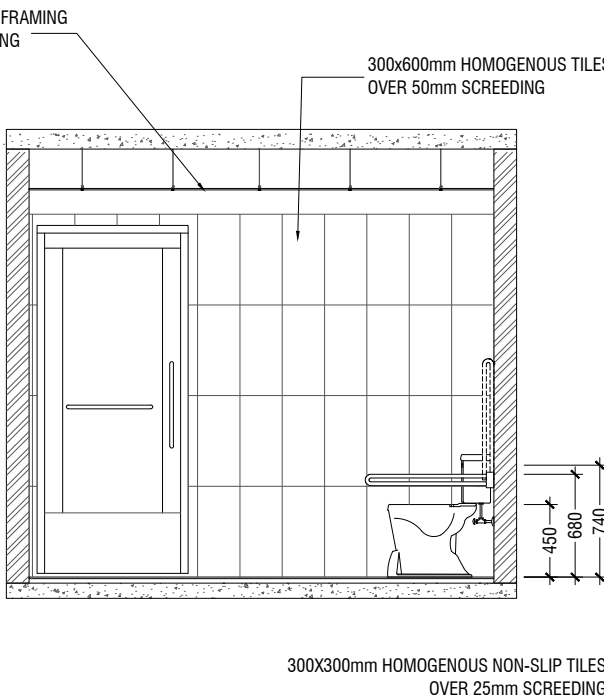
COUNTER TOP DETAILS

SCALE 1:20



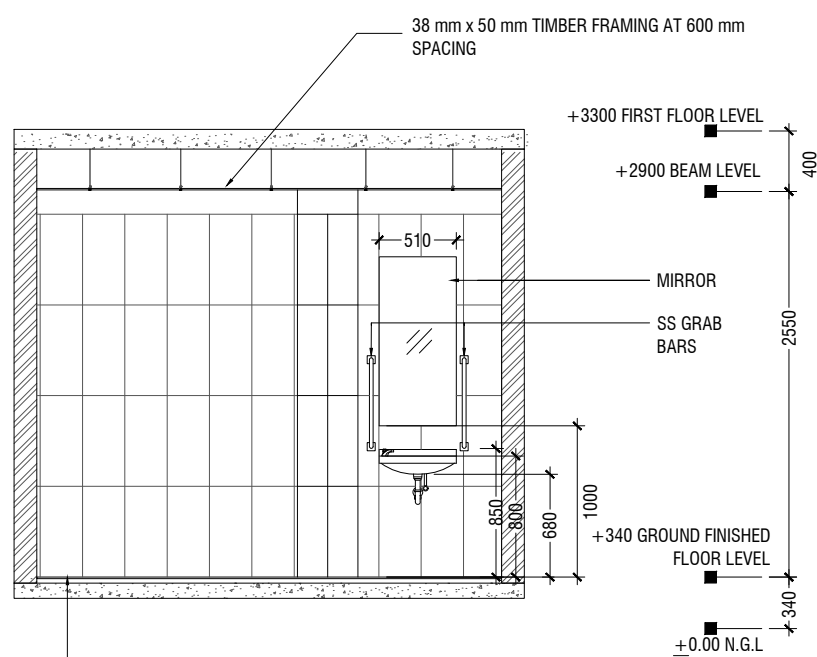
SECTION B1-B1

SCALE 1:50



SECTION B2-B2

SCALE 1:50



SECTION B3-B3

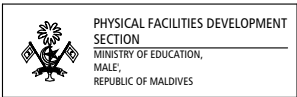
SCALE 1:50

NOTE:
ALL THE MATERIALS FOR FIXTURES SHALL BE APPROVED
BY THE ARCHITECT/CONSULTANT BEFORE INSTALLATION

GRAB BARS OF THE DISABLE TOILET SHALL BE AS PER MANUFACTURE'S DETAIL

DETAIL - 3
TOILET DETAILS

SCALE 1:50



PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

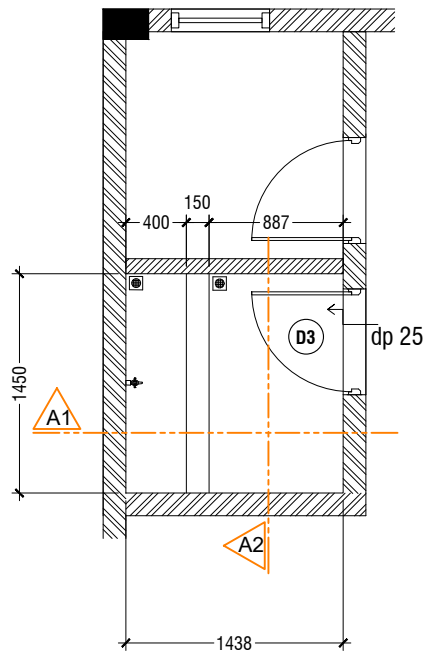
SCALE : AS GIVEN

DATE : 22.05.2022

AMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |
| | | |

DWG NO : A - 20/ 28

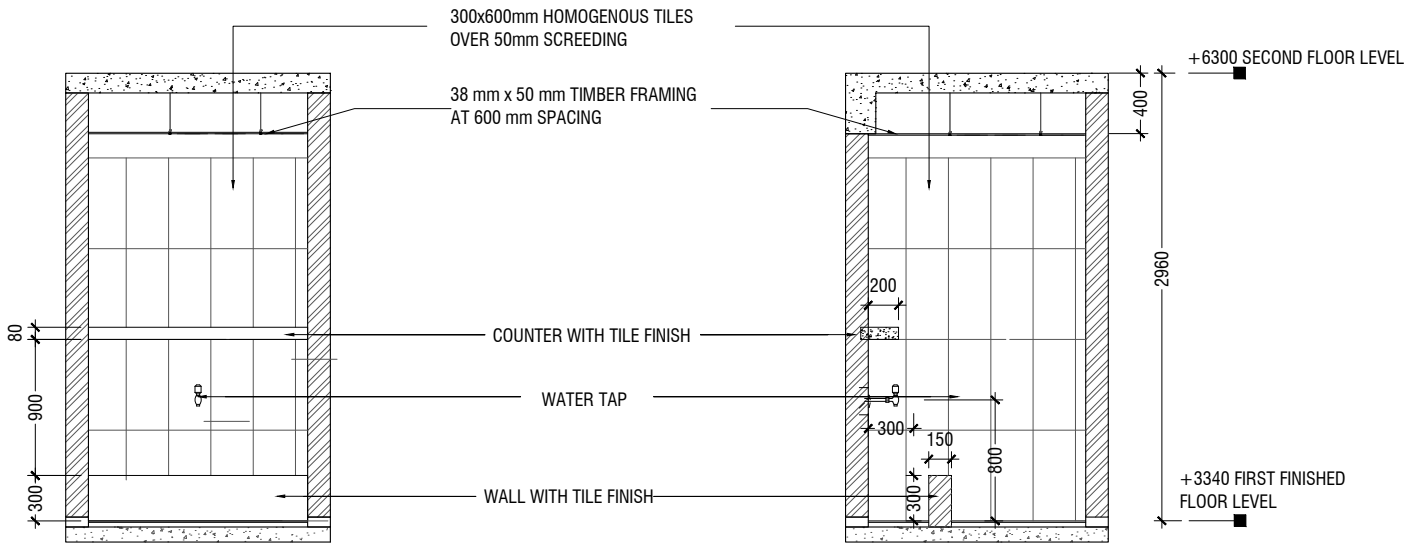


ABLUTION AREA PLAN

SCALE 1:50



NOTE:-
FLOOR TO FLOOR HEIGHT VARIES AND WILL BE SUBJECTED
TO CHANGES



SECTION A2

SCALE 1:50



SECTION B1

SCALE 1:50



PROJECT : **03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)**

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

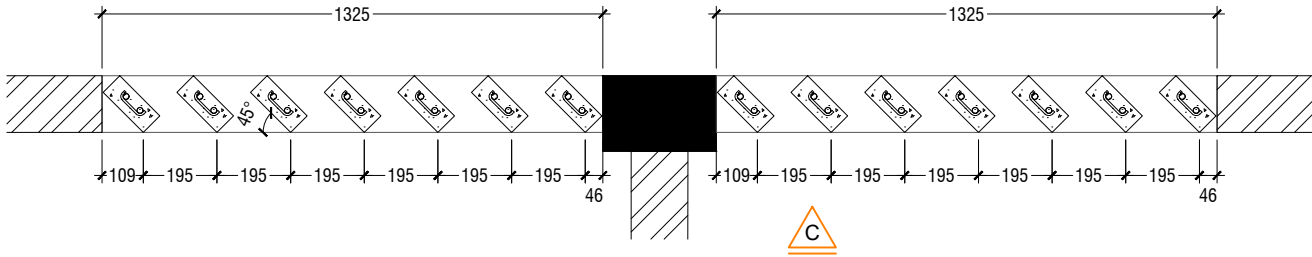
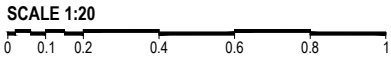
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DATE : 22.05.2022

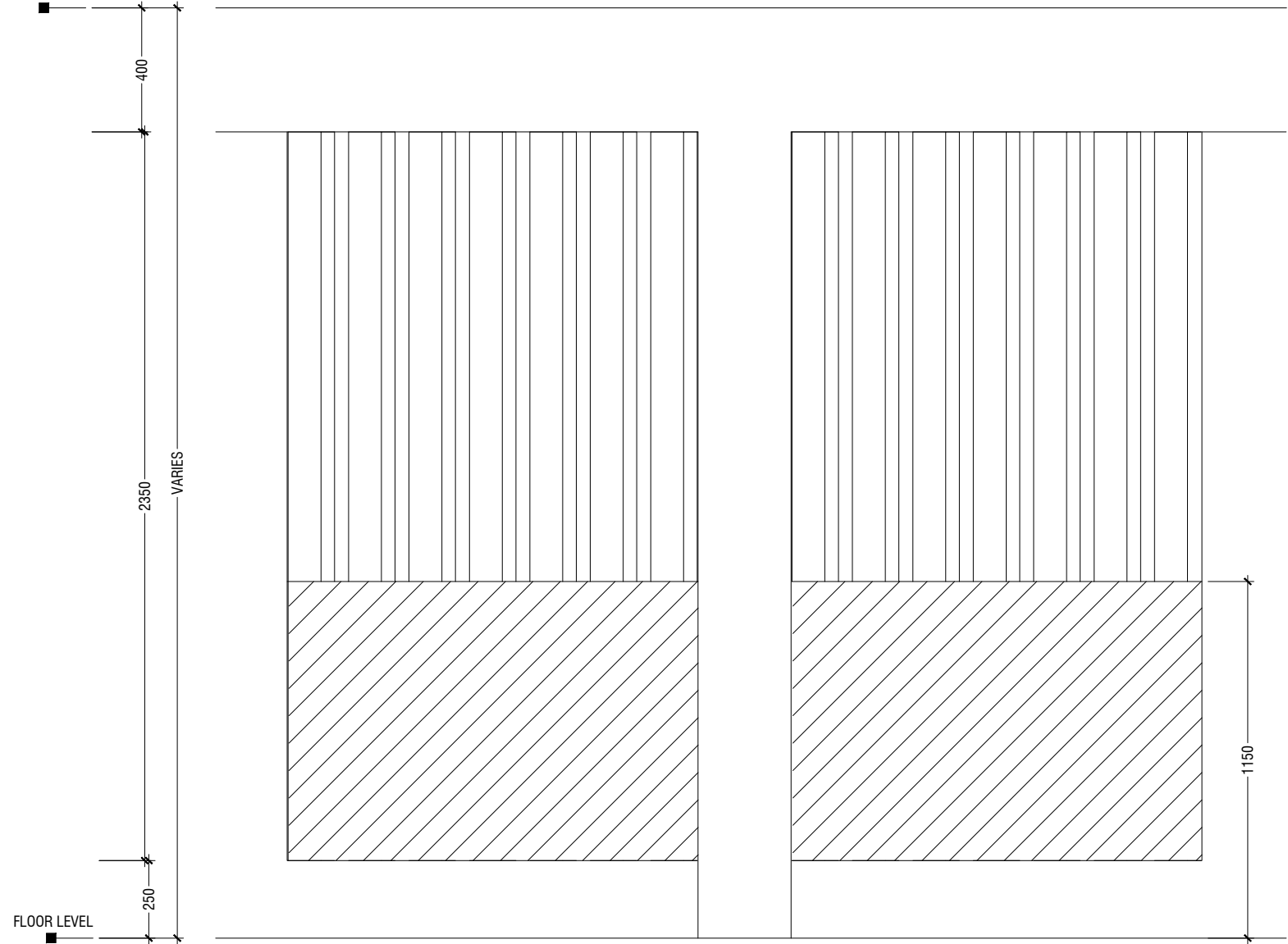
AMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |

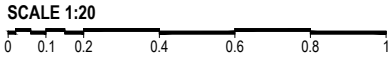
PLAN



FLOOR LEVEL

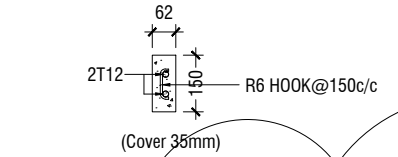
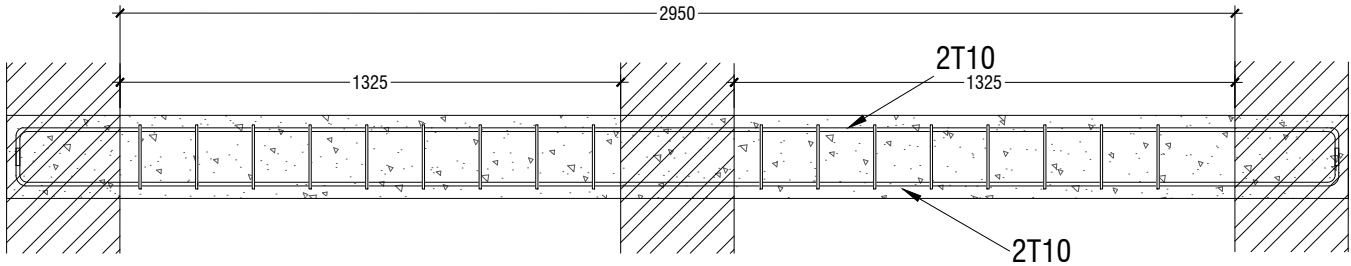
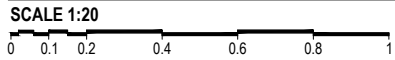


ELEVATION - C

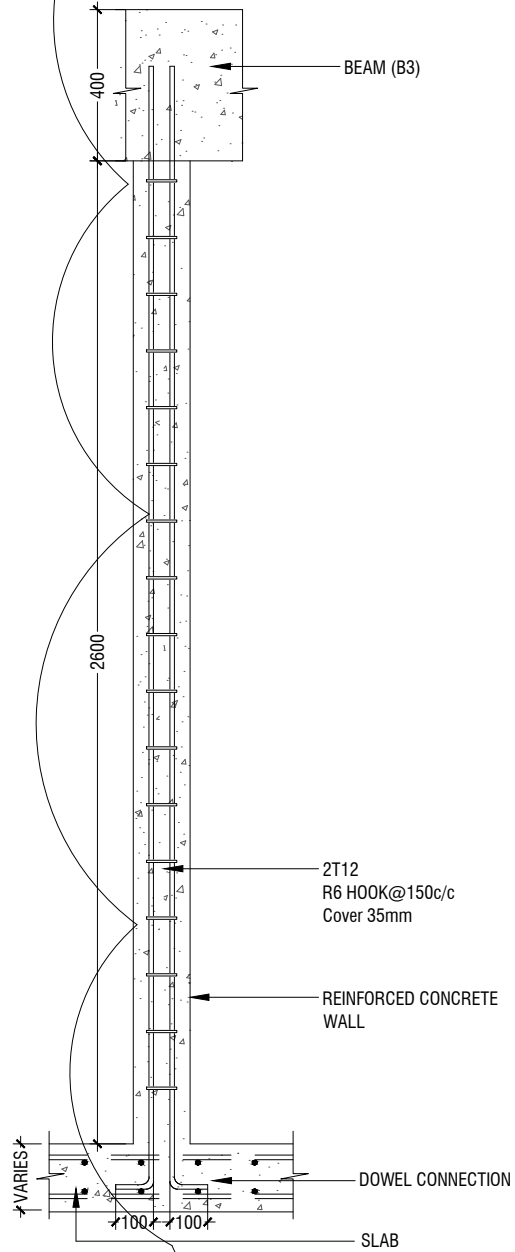
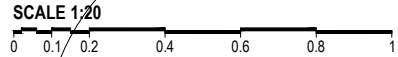


NOTE:-
FLOOR TO FLOOR HEIGHT VARIES AND WILL BE SUBJECTED TO CHANGES

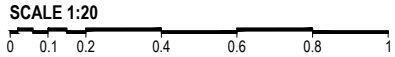
DETAIL - 4
RC FIN DETAILS (TOILET)



RC FIN DETAIL



SECTION C-C



Span length= 2950mm
Wall thickness= 150mm
Overall Depth =220mm
Effective Depth= 182mm
Total Length of main bar=3630mm
Total length of Anchor Bar =3630mm
T length of Stirrup = 588mm



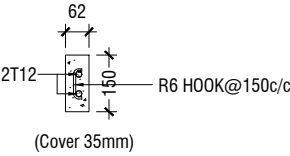
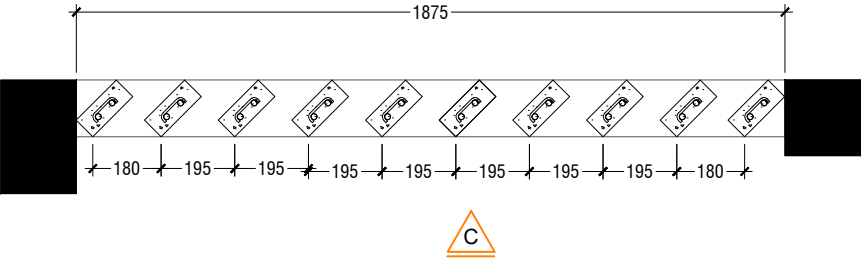
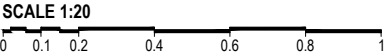
PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :
ARCHITECT : MOE
ENGINEER : MOE
DRAWN : MOE
CHECKED : MOE
SCALE : AS GIVEN
DATE : 22.05.2022

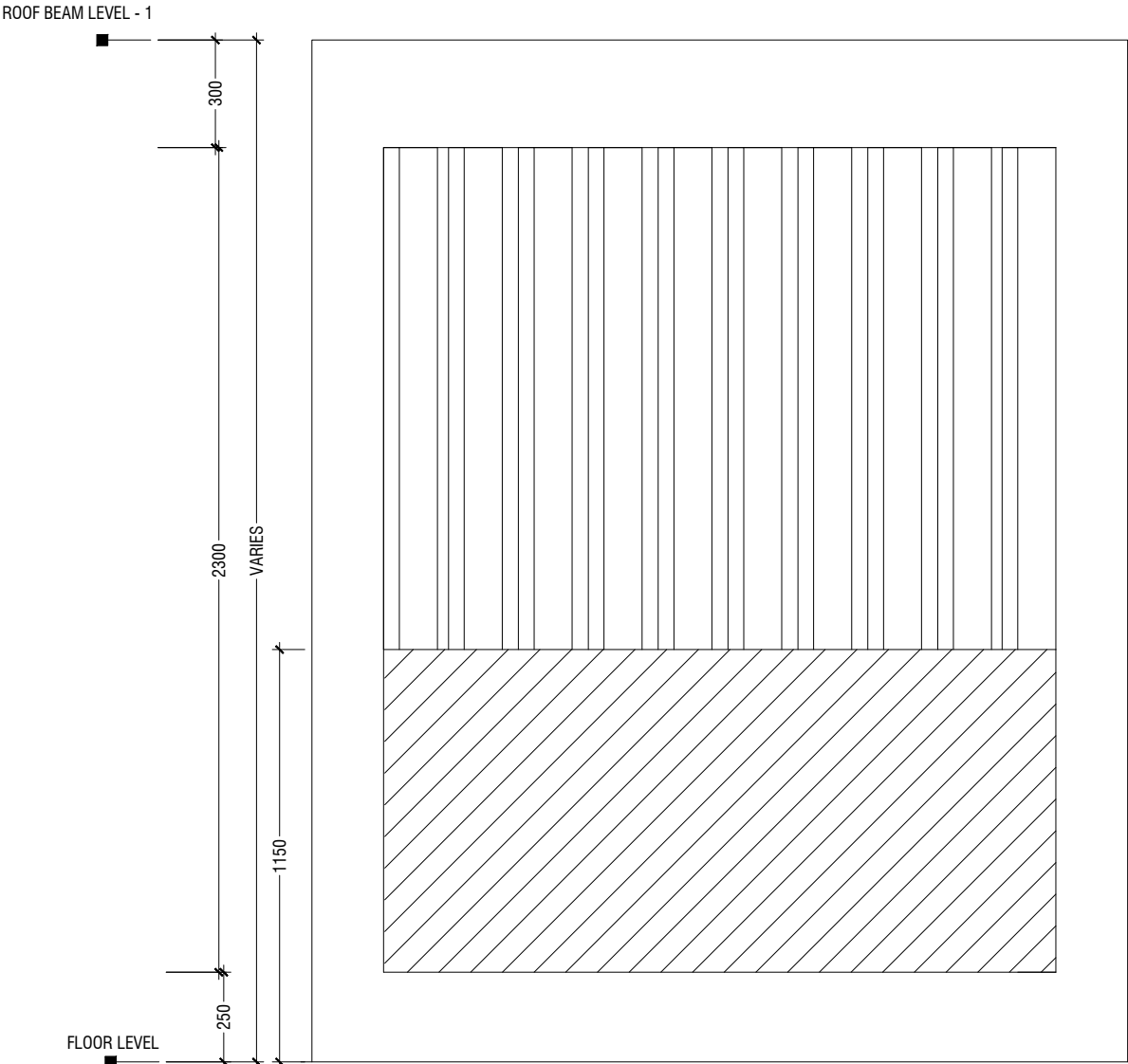
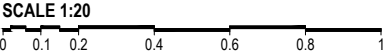
| AMENDMENTS | | |
|------------|------|-------------|
| Issue | Date | Description |
| | | |

DWG NO : A - 22/ 28

PLAN



RC FIN DETAIL




ELEVATION - C



NOTE:-
FLOOR TO FLOOR HEIGHT VARIES AND WILL BE SUBJECTED TO CHANGES

DETAIL - 5
RC FIN DETAILS (CORRIDOR)





PHYSICAL FACILITIES DEVELOPMENT
SECTION
MINISTRY OF EDUCATION,
MALE,
REPUBLIC OF MALDIVES

PROJECT : **03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)**

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

SCALE : AS GIVEN

DATE : 22.05.2022

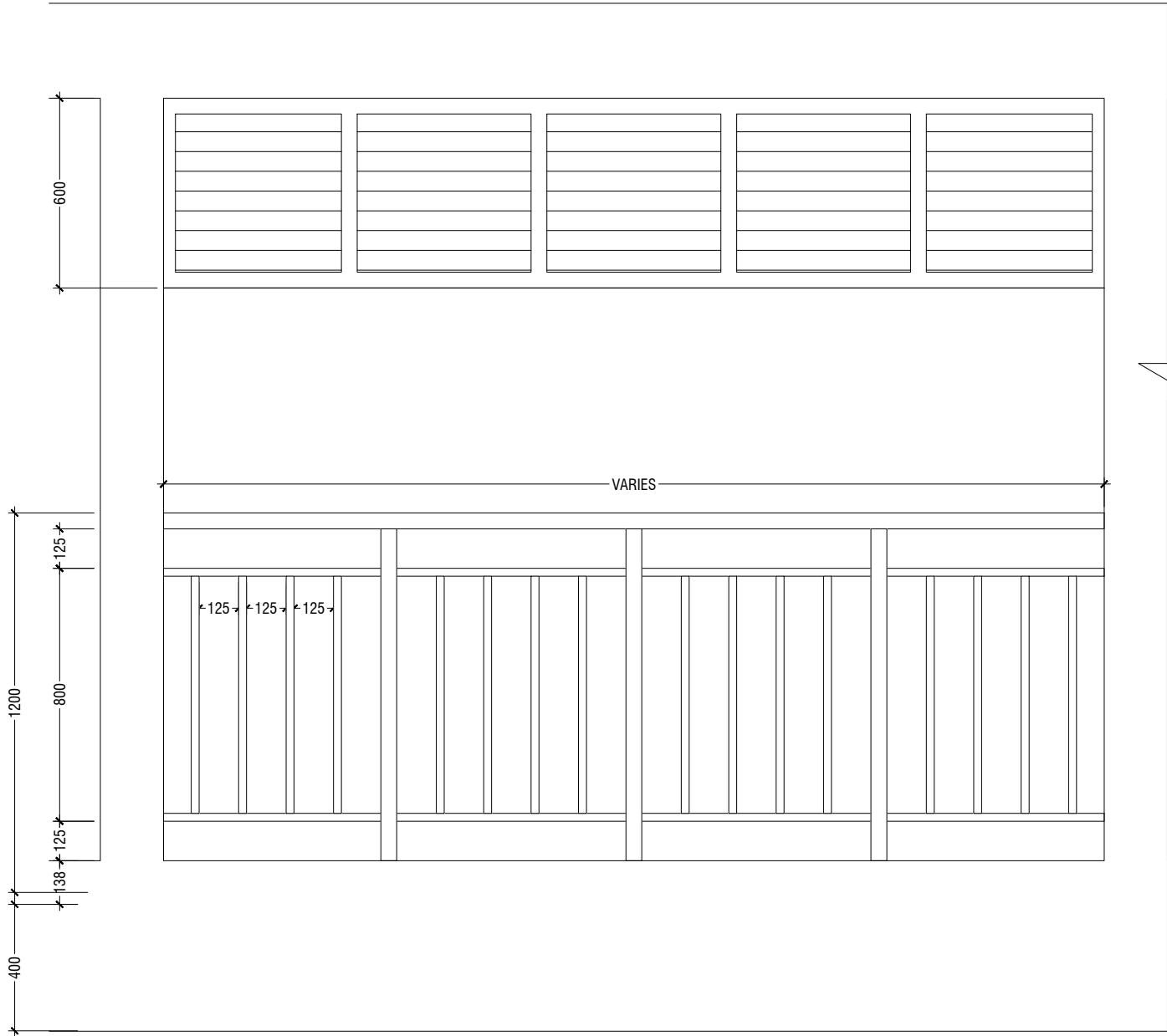
| AMENDMENTS | | |
|------------|------|-------------|
| Issue | Date | Description |
| | | |

DWG NO : **A - 23/ 28**

ROOF BEAM LEVEL - 1
+9150

2850

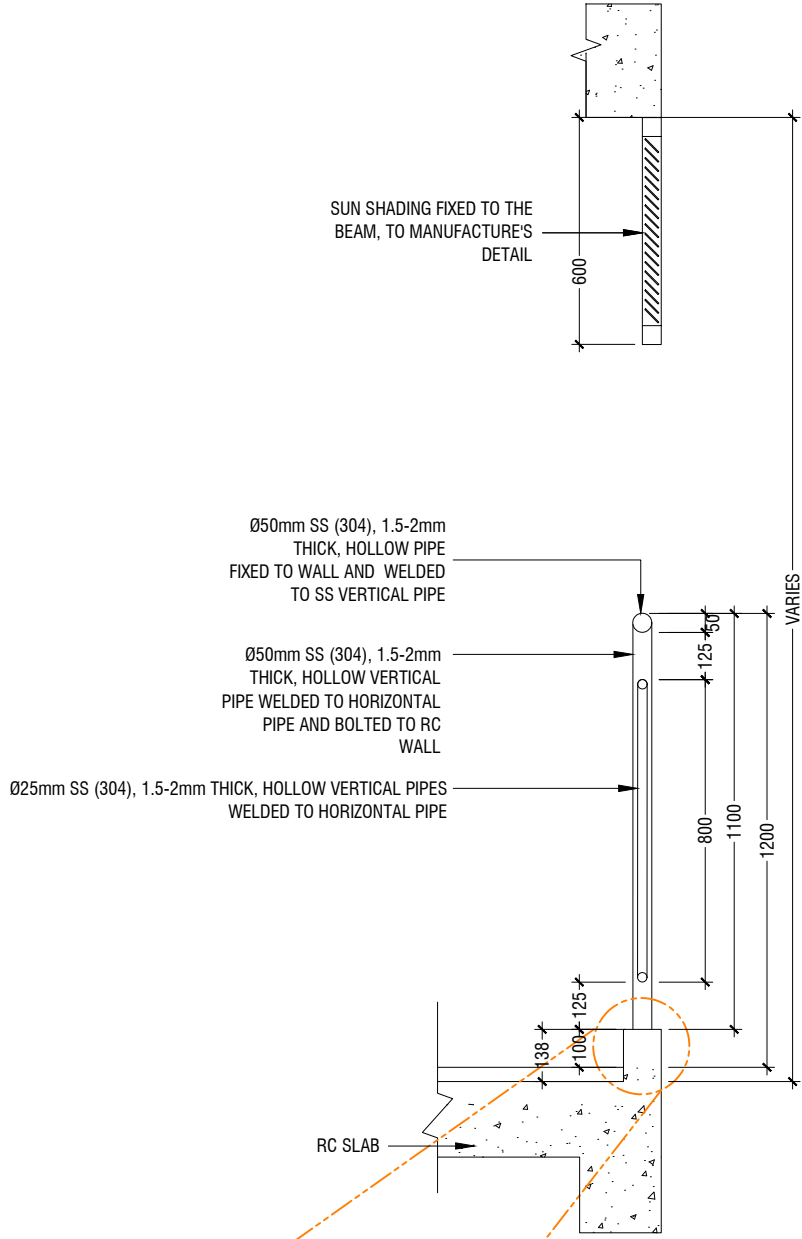
SECOND FLOOR LEVEL
+6300



ELEVATION
SCALE 1:20

NOTE:-
FLOOR TO FLOOR HEIGHT VARIES AND WILL BE SUBJECTED TO CHANGES

DETAIL - 6
RAILING DETAILS
SCALE 1:20



Ø50mm SS (304), 1.5-2mm THICK, HOLLOW PIPE
FIXED TO WALL AND WELDED
TO SS VERTICAL PIPE

Ø50mm SS (304), 1.5-2mm
THICK, HOLLOW VERTICAL
PIPE WELDED TO HORIZONTAL
PIPE AND BOLTED TO RC
WALL

Ø25mm SS (304), 1.5-2mm THICK, HOLLOW VERTICAL PIPES
WELDED TO HORIZONTAL PIPE

SUN SHADING FIXED TO THE
BEAM, TO MANUFACTURE'S
DETAIL

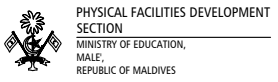
RC SLAB

Ø50mm SS (304), 1.5-2mm THICK,
HOLLOW PIPE

4 NOS. 12mm ANCHOR BOLTS FIXED TO
THE RC WALL WITH SS PLATE AND
COVERED BY PLASTERING

100mm THICK RC CONCRETE WALL

SECTION
SCALE 1:20



PROJECT : **03 CLASSROOM BLOCK**
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

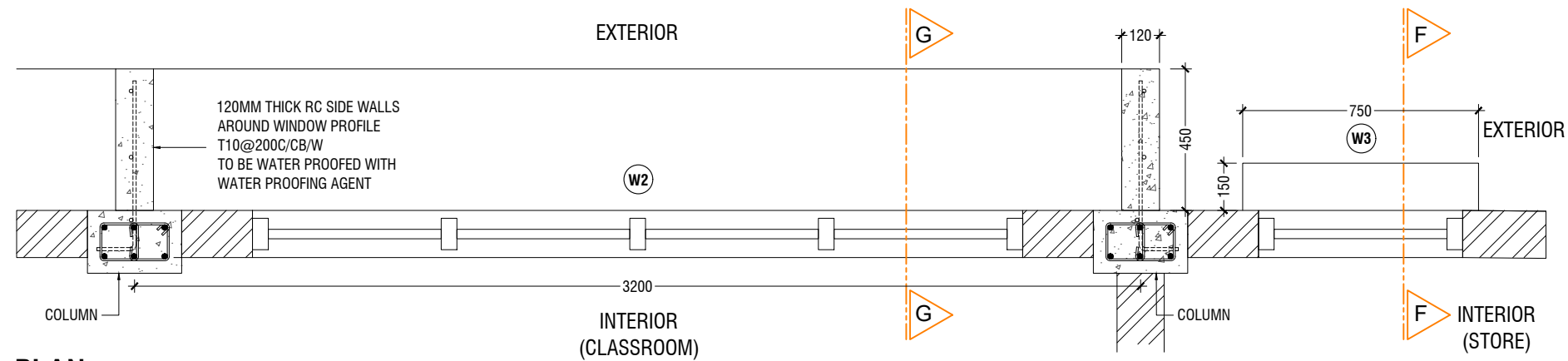
CHECKED : MOE

SCALE : AS GIVEN

DATE : 22.05.2022

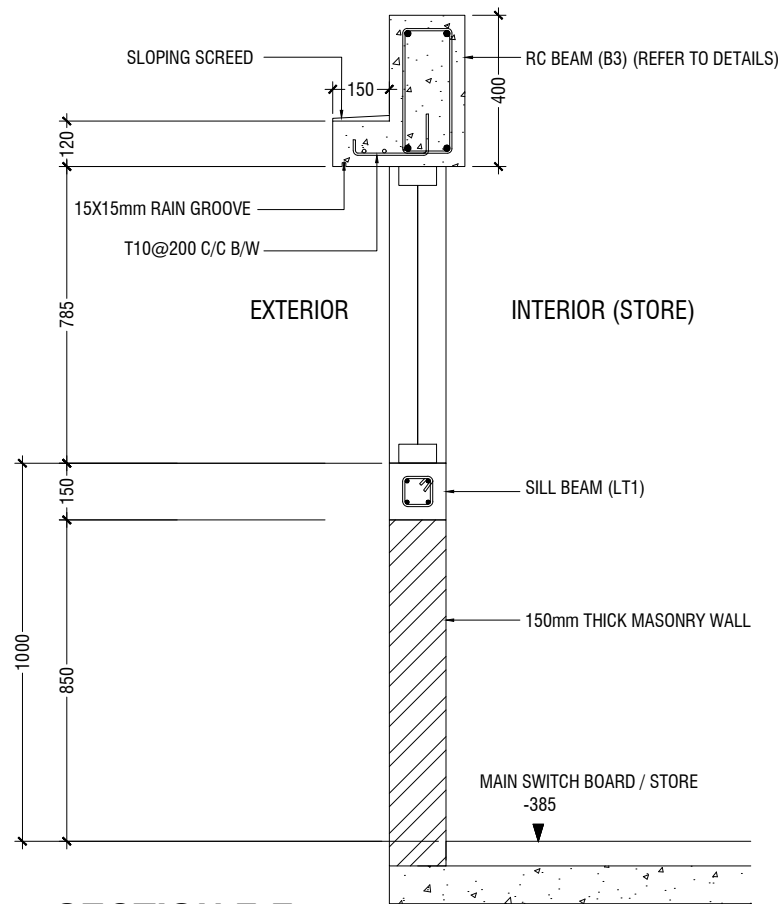
| AMENDMENTS | | |
|------------|------|-------------|
| Issue | Date | Description |
| | | |

DWG NO : **A - 24/ 28**



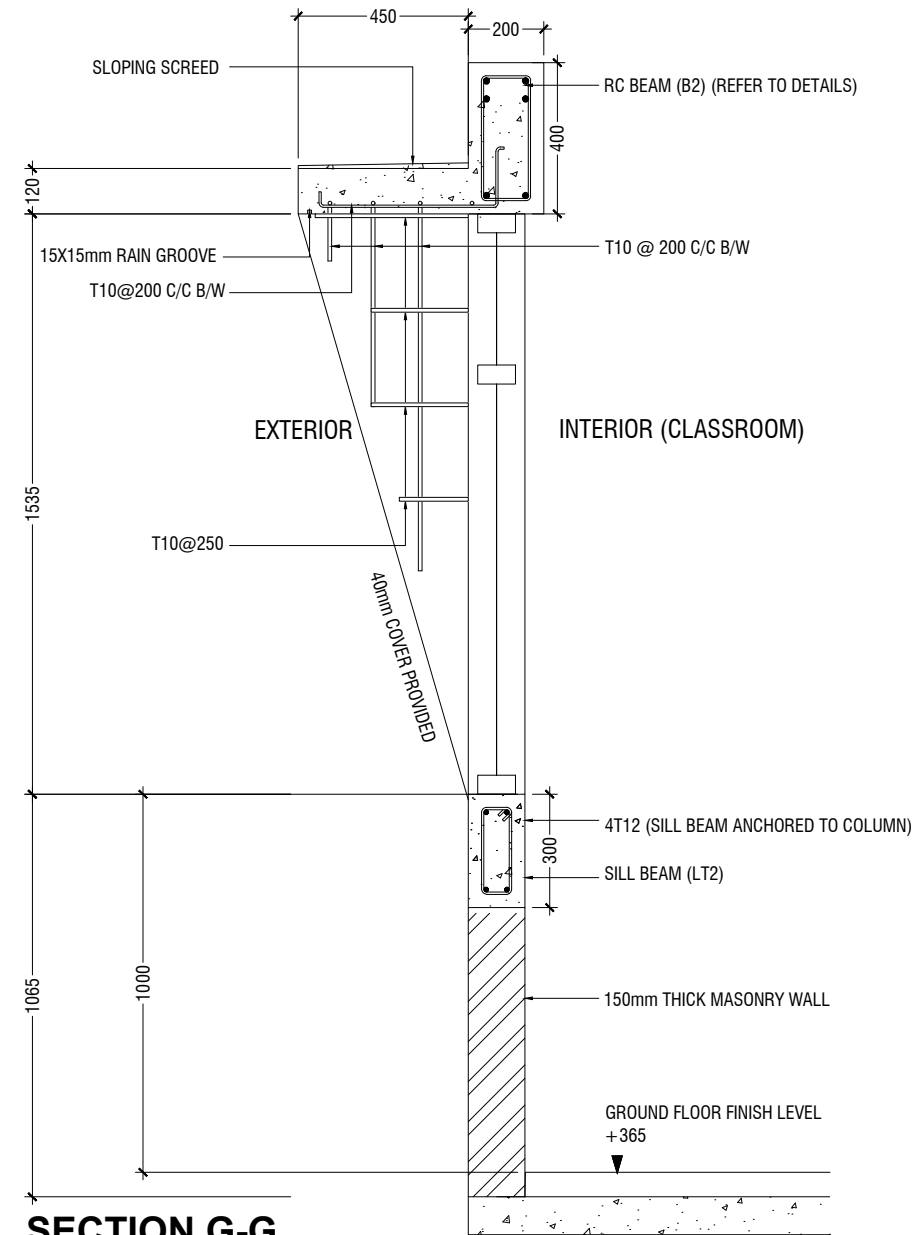
PLAN

SCALE 1:20



SECTION F-F

SCALE 1:20

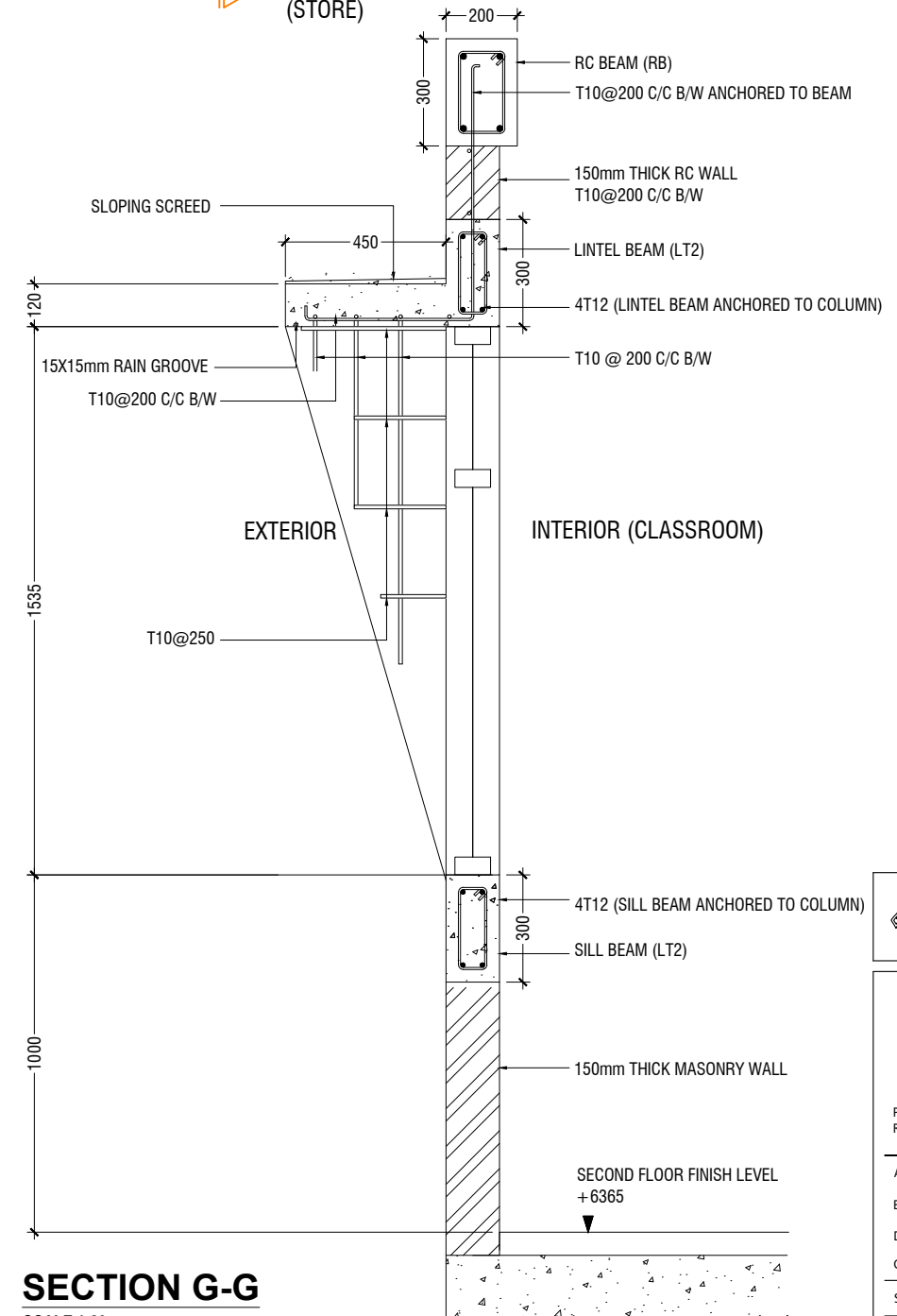


SECTION G-G

SCALE 1:20



* NOTE: GROUND FLOOR



SECTION G-G

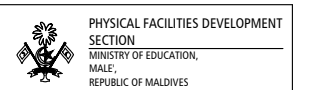
SCALE 1:20



* NOTE: SECOND FLOOR

DETAIL - 7 RC WALL DETAILS

SCALE 1:20



PHYSICAL FACILITIES DEVELOPMENT
SECTION
MINISTRY OF EDUCATION,
MALE,
REPUBLIC OF MALDIVES

PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

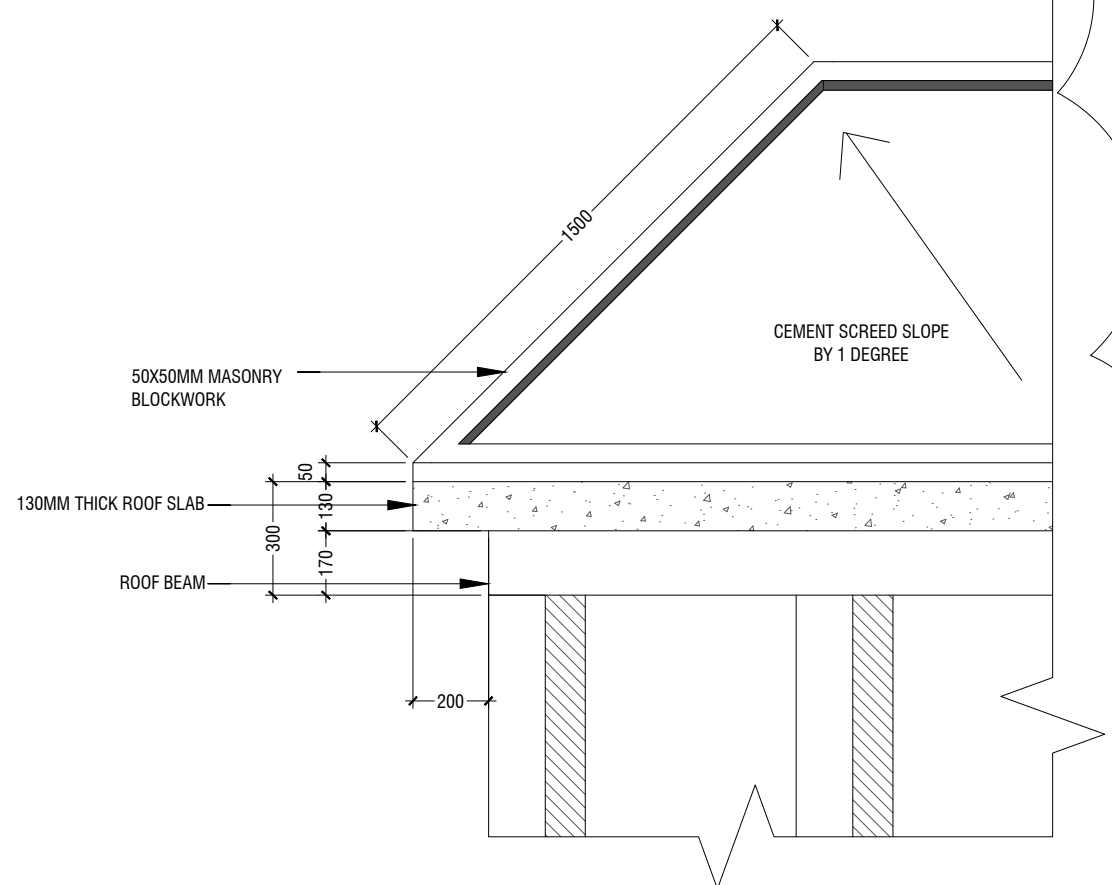
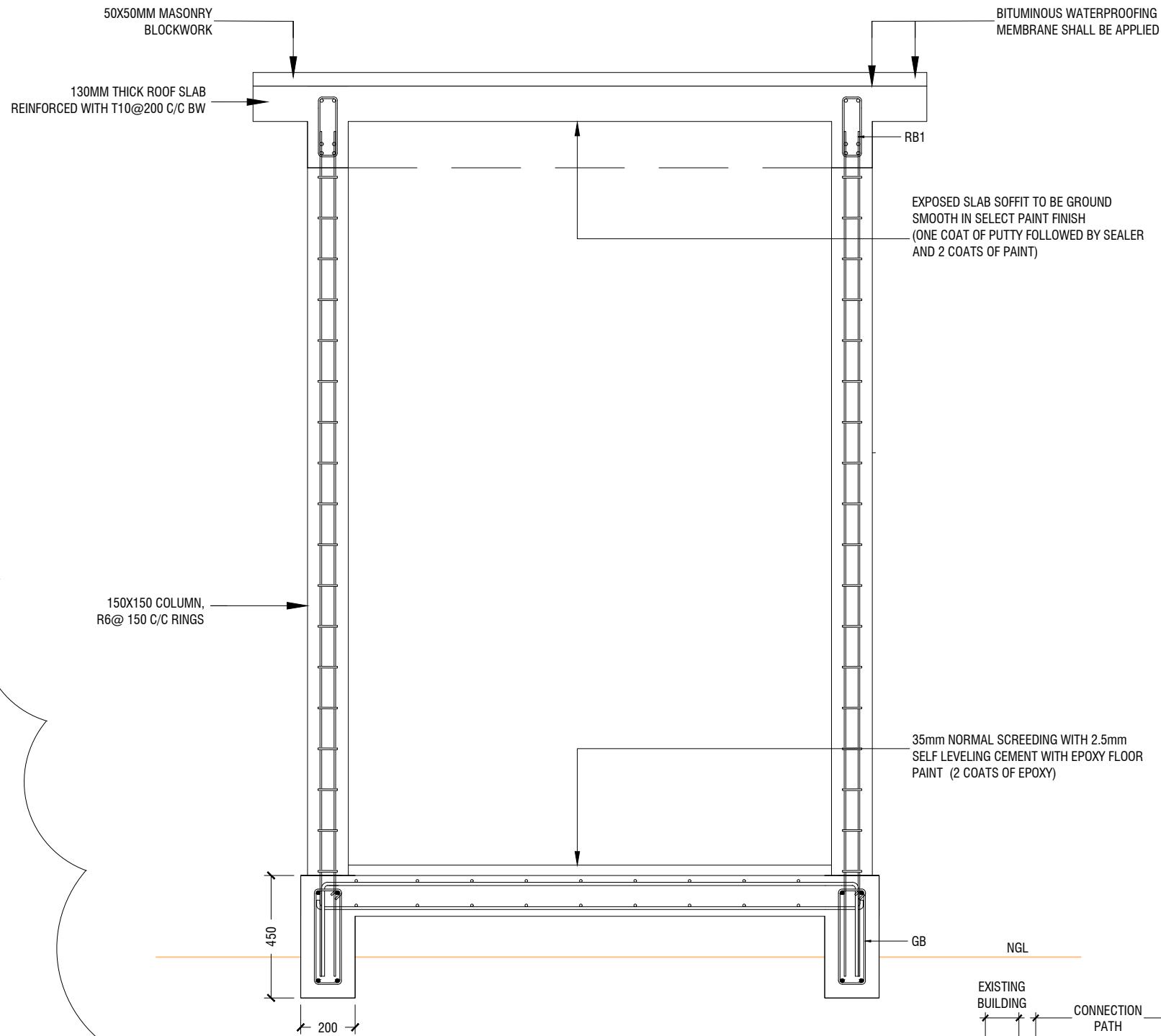
SCALE : AS GIVEN

DATE : 22.05.2022

AMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |
| | | |

DWG NO : A - 25/ 28

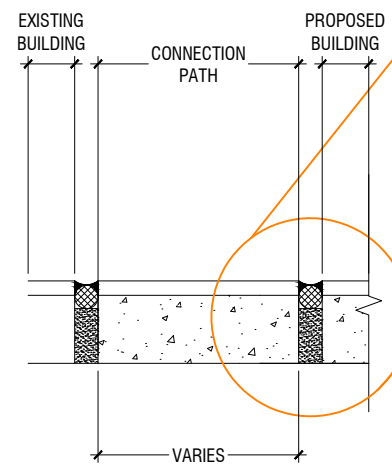
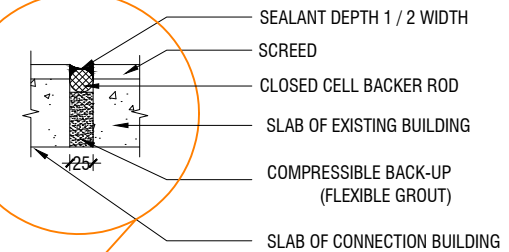


ROOF DETAILS

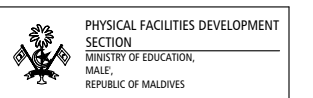
DETAIL - 8
CONNECTION PATH DETAILS
SCALE 1:20



SLAB EXPANSION JOINT DETAIL



SLAB CONNECTION DETAIL (FOR GROUND SLAB AND SLAB ROOF OF CONNECTION PATH)



PHYSICAL FACILITIES DEVELOPMENT
SECTION
MINISTRY OF EDUCATION,
MALE,
REPUBLIC OF MALDIVES

PROJECT : **03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)**

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

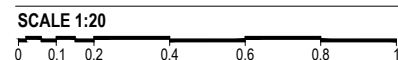
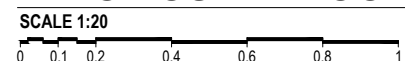
SCALE : AS GIVEN

DATE : 22.05.2022

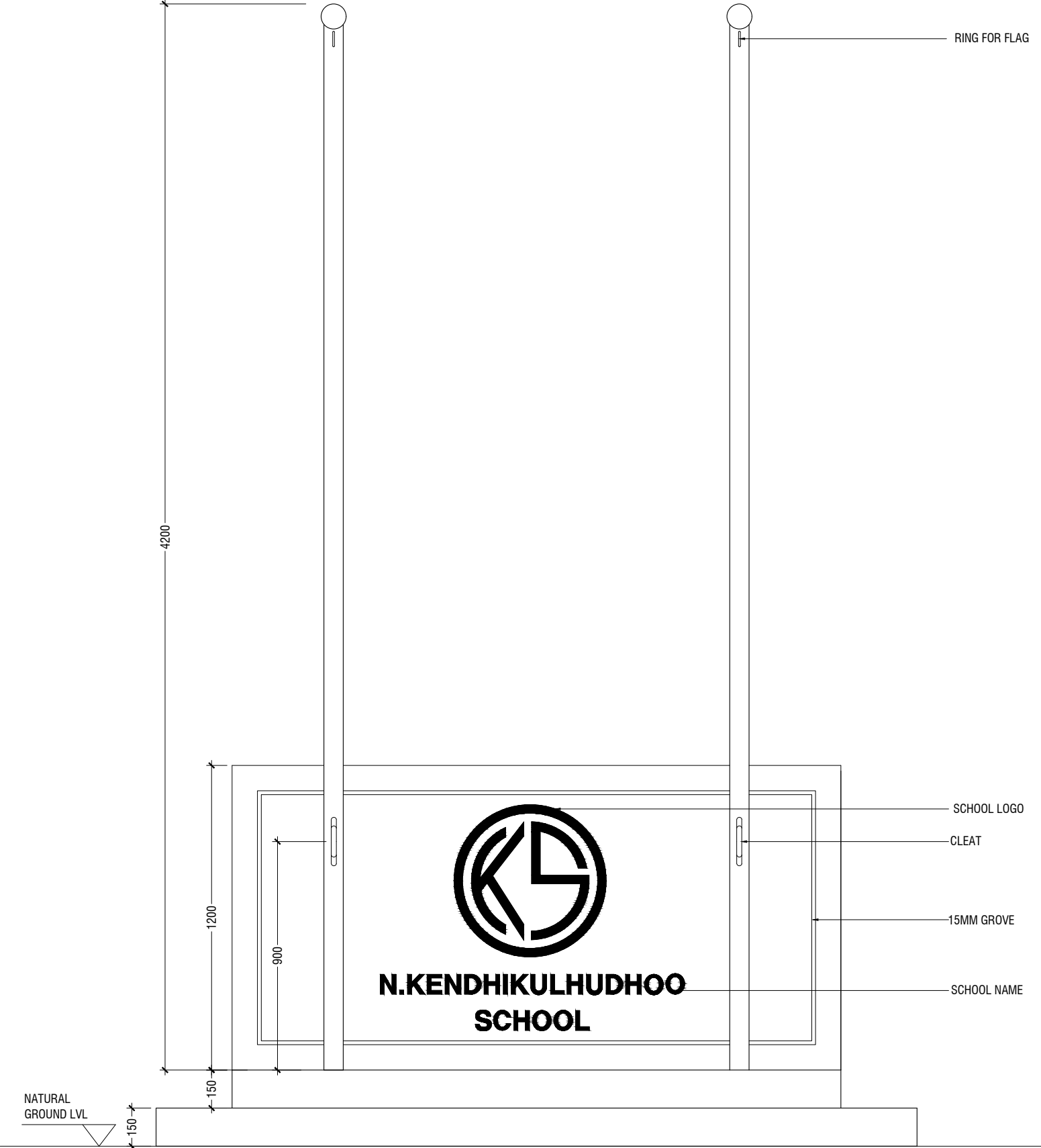
AMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |
| | | |

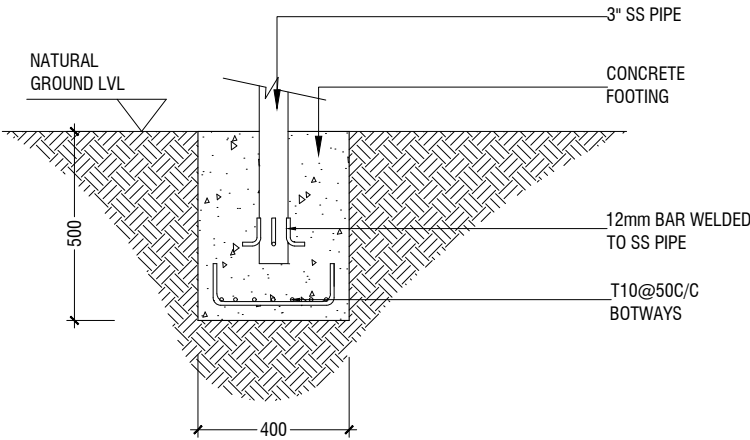
DWG NO : A - 26/ 28



DWG NO : A - 27/ 28



DETAIL - 9
FLAG POST - FRONT ELEVATION



DETAIL - 9
FLAG POST - FOOTING DETAIL



PROJECT : **03 CLASSROOM BLOCK**
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

SCALE : AS GIVEN

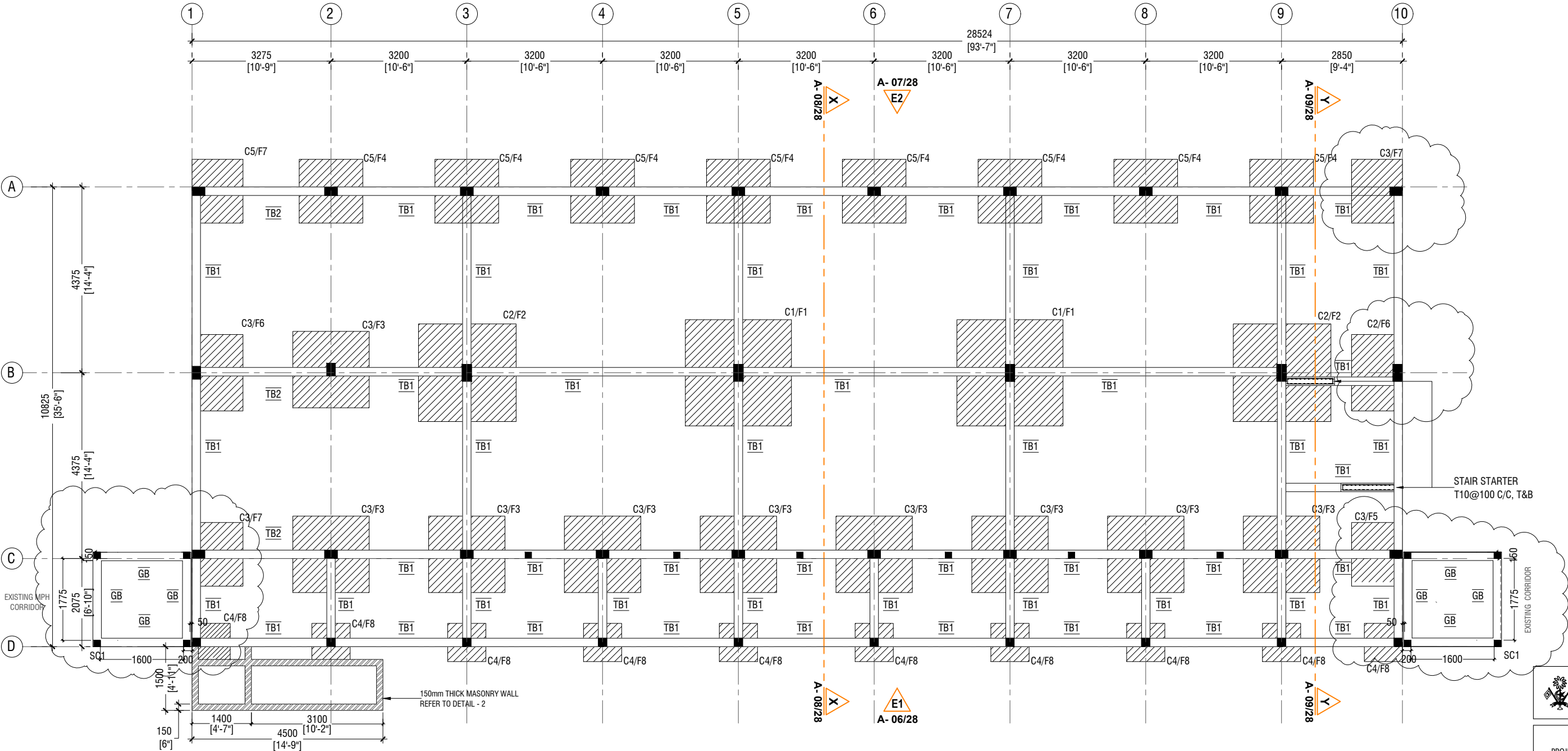
DATE : 22.05.2022

AMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |

DWG NO : **A - 28/ 28**

STRUCTURE CHECK



FOUNDATION PLAN

SCALE 1:100

NOTE:

COLUMN SIZES

C1 : 225 x 400 mm
C2 : 225 x 400 mm
C3 : 200 x 300 mm
C4 : 200 x 200 mm
C5 : 200 x 300 mm
SC : 150 x 150 mm
COVER : 40mm

FOUNDATION PAD SIZES

| | DIMENSION | REINFORCEMENT |
|----|-------------------|---------------------|
| F1 | 2500 x 2500 x 400 | T16@125 C/C B/W (B) |
| F2 | 2300 x 2300 x 350 | T16@110 C/C B/W (B) |
| F3 | 1800 x 1800 x 300 | T12@125 C/C B/W (B) |
| F4 | 1500 x 1500 x 300 | T12@150 C/C B/W (B) |
| F5 | 1300 x 1300 x 300 | T12@150 C/C B/W (B) |
| F6 | 1800 x 1200 x 300 | T16@120 C/C B/W (B) |
| F7 | 1500 x 1200 x 300 | T16@120 C/C B/W (B) |
| F8 | 900 x 900 x 300 | T12@150 C/C B/W (B) |

NOTE:

CONCRETE COVER

COLUMN : 40mm
SLAB : 30mm
BEAM : 35mm
FOOTING : 50mm
TIE BEAM : 50mm

LAP LENGTH FOR BARS

25MM : 1125 mm
20MM : 900 mm
16MM : 720 mm
12MM : 550 mm
10MM : 450 mm

CONCRETE GRADE = M25

SAFE BEARING CAPACITY = 150KPa

HOOK LENGTH AND OTHER DETAILS ARE PROVIDED IN THE GENERAL NOTES

FOUNDATION DEPTH : 1200mm BELOW GROUND LEVEL

ALL FOOTINGS ARE TO BE LAID ON TOP OF 50mm THICK LEAN CONCRETE
APPLY WATER PROOFING TO SUBSTRUCTURE (BELOW GROUND ELEMENTS)

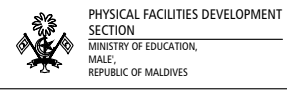
TIE BEAM SIZES

TB1 : 200 x 450 mm
TB2 : 200 x 450 mm
COVER : 50mm

GROUND SLAB : 100mm THK RC SLAB ON FILL REINFORCED WITH T10@200 C/C B/W

RAMP SLAB : 100mm THK RC SLAB ON COMPACTED FILL REINFORCED WITH T10@200 C/C BW

-150mm THK. SOLID MASONRY BLOCK WALL



PROJECT : 03 CLASSROOM BLOCK N.KENDHIKOLHUDHOO (03 storey)

PROJECT REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

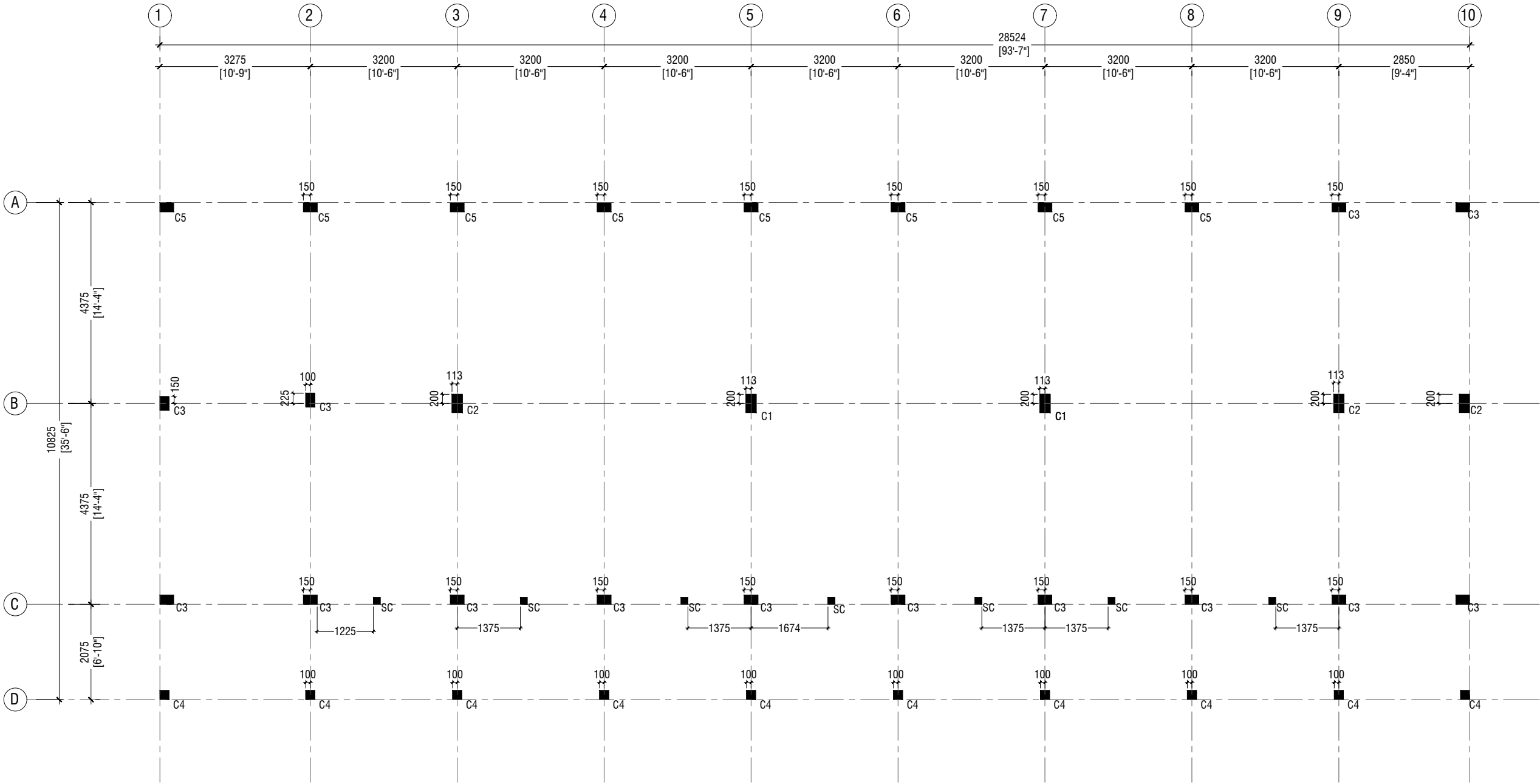
CHECKED : MOE

SCALE : AS GIVEN

DATE : 22.05.2022

| AMENDMENTS | | |
|------------|------|-------------|
| Issue | Date | Description |
| | | |

DWG NO : S - 01/ 14

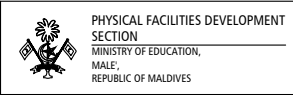
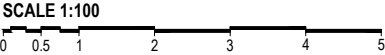


NOTE:

COLUMN SIZES

C1 : 225 x 400 mm
C2 : 225 x 400 mm
C3 : 200 x 300 mm
C4 : 200 x 200 mm
C5 : 200 x 300 mm
SC : 150 x 150 mm
COVER : 40mm

GROUND FLOOR COLUMN LAYOUT PLAN



PROJECT : **03 CLASSROOM BLOCK**
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

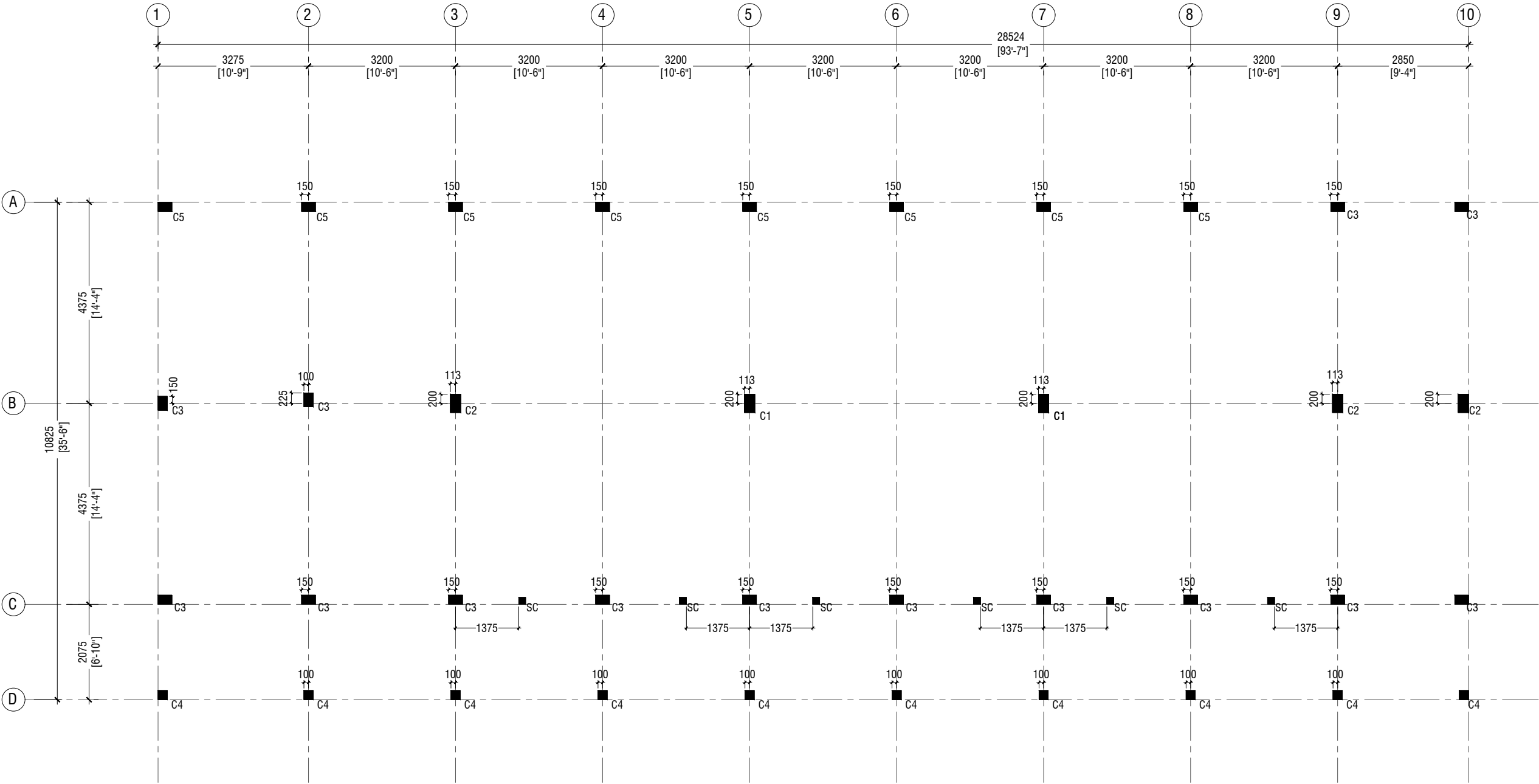
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SCALE : AS GIVEN

DATE : 22.05.2022

| AMENDMENTS | | |
|------------|------|-------------|
| Issue | Date | Description |
| | | |

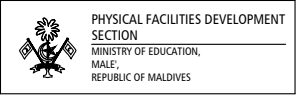
DWG NO : **S - 02/ 14**



NOTE:

COLUMN SIZES
C1 : 225 x 400 mm
C2 : 225 x 400 mm
C3 : 200 x 300 mm
C4 : 200 x 200 mm
C5 : 200 x 300 mm
SC : 150 x 150 mm
COVER : 40mm

FIRST FLOOR COLUMN LAYOUT PLAN



PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

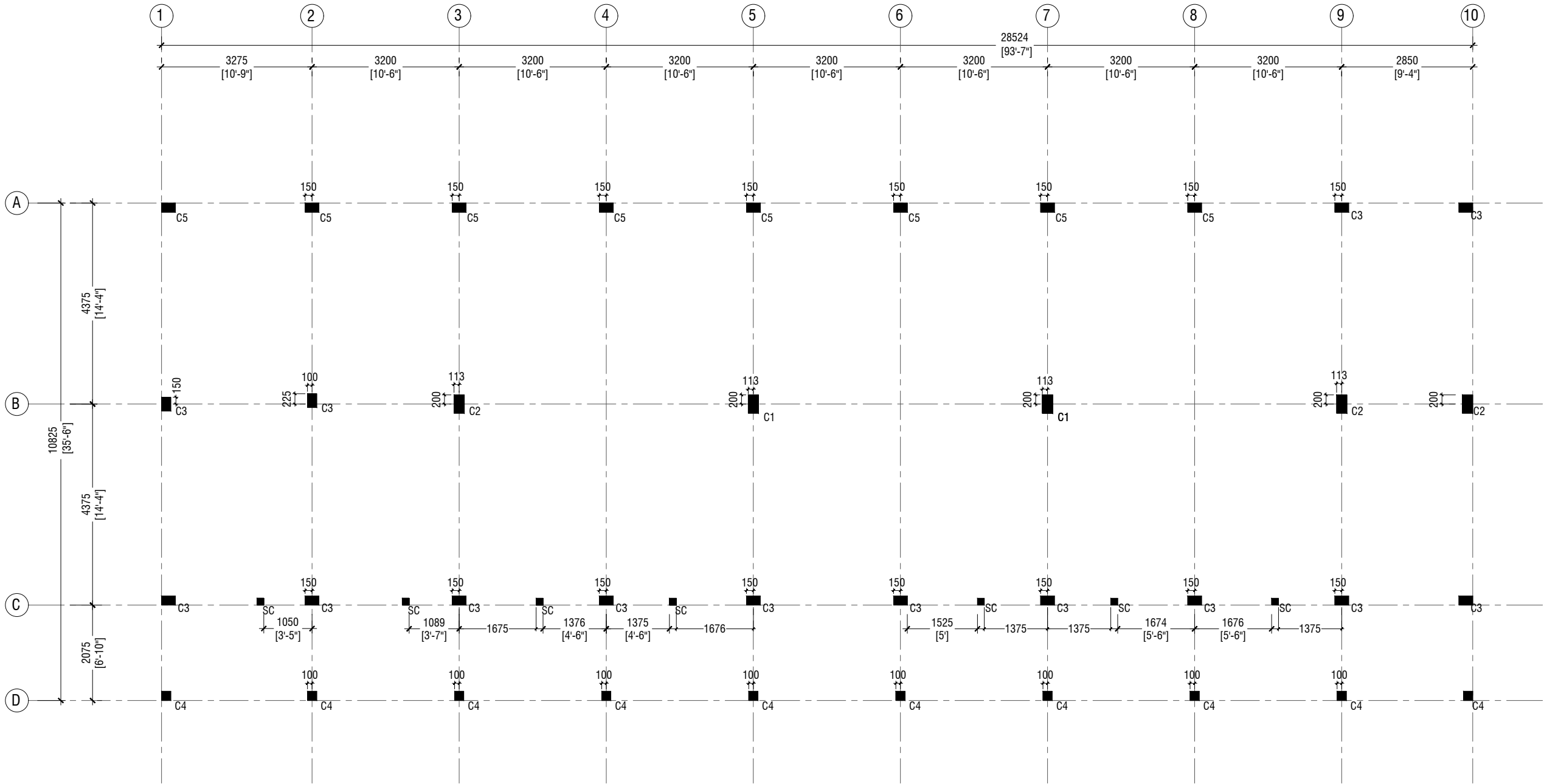
CHECKED : MOE

SCALE : AS GIVEN

DATE : 22.05.2022

| AMENDMENTS | | |
|------------|------|-------------|
| Issue | Date | Description |
| | | |

DWG NO : S - 03/ 14



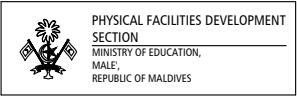
NOTE:

COLUMN SIZES

- C1 : 225 x 400 mm
- C2 : 225 x 400 mm
- C3 : 200 x 300 mm
- C4 : 200 x 200 mm
- C5 : 200 x 300 mm
- SC : 150 x 150 mm
- COVER : 40mm

SECOND FLOOR COLUMN LAYOUT PLAN

SCALE 1:100



PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

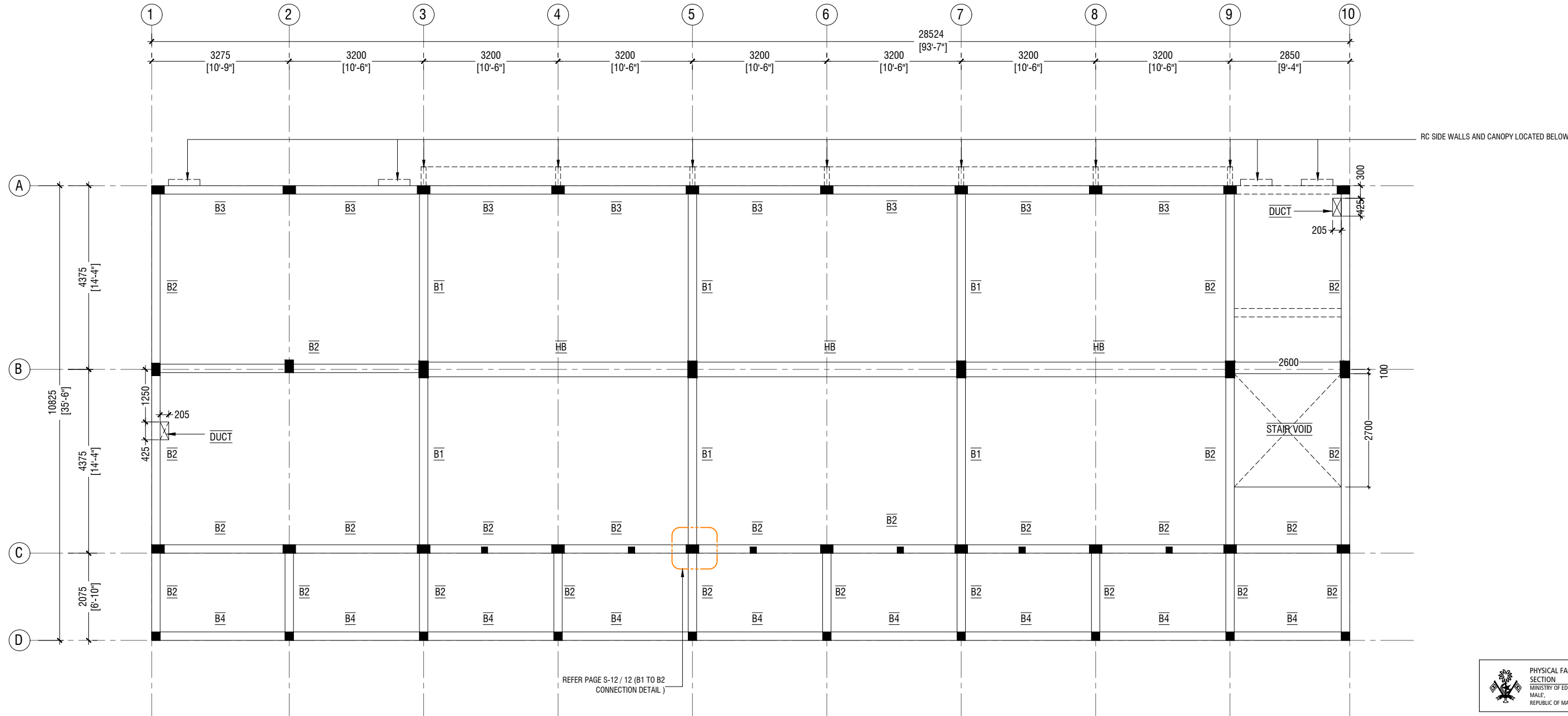
CHECKED : MOE

SCALE : AS GIVEN

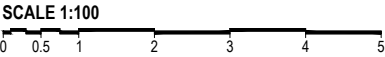
DATE : 22.05.2022

| AMENDMENTS | | |
|------------|------|-------------|
| Issue | Date | Description |
| | | |

DWG NO : S - 04/ 14



FIRST - SECOND FLOOR BEAM PLAN




NOTE:

COLUMN SIZES

C1 : 225 x 400 mm
C2 : 225 x 400 mm
C3 : 200 x 300 mm
C4 : 200 x 200 mm
C5 : 200 x 300 mm
SC : 150 x 150 mm
COVER : 40mm

BEAM SIZES

B1 : 200x475 mm
B2 : 200x400 mm
B3 : 200x400 mm
B4 : 200x400 mm
HB : 400x180 mm
COVER : 35mm



PHYSICAL FACILITIES DEVELOPMENT
SECTION
MINISTRY OF EDUCATION,
MALE,
REPUBLIC OF MALDIVES

PROJECT : **03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)**

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

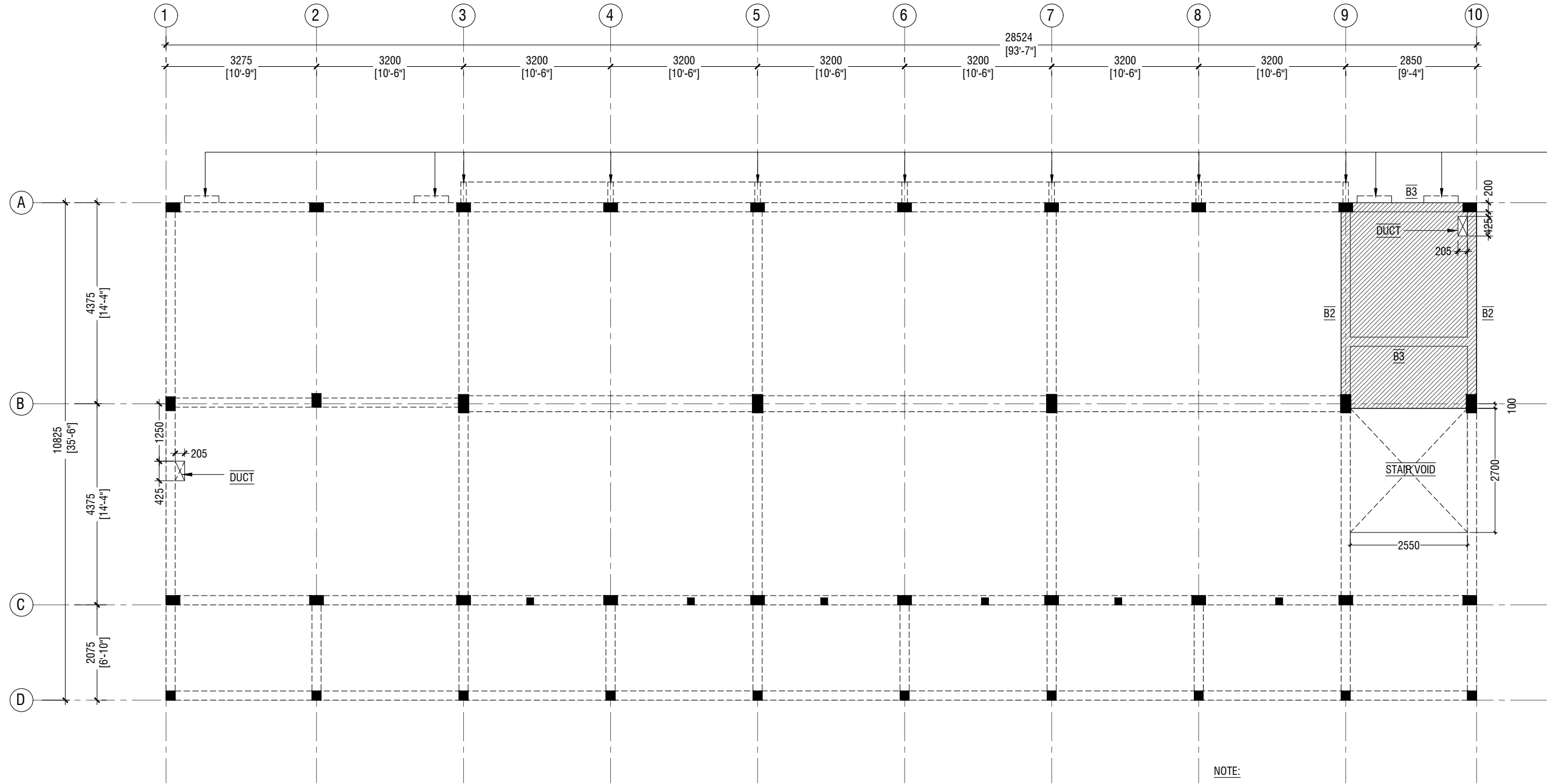
CHECKED : MOE

SCALE : AS GIVEN

DATE : 22.05.2022

| AMENDMENTS | | |
|------------|------|-------------|
| Issue | Date | Description |
| | | |
| | | |

DWG NO : **S - 05/ 14**



NOTE:

COLUMN SIZES

- C1 : 225 x 400 mm
- C2 : 225 x 400 mm
- C3 : 200 x 300 mm
- C4 : 200 x 200 mm
- C5 : 200 x 300 mm
- SC : 150 x 150 mm
- COVER : 40mm

BEAM SIZES

- B1 : 200x475 mm
- B2 : 200x400 mm
- B3 : 200x400 mm
- B4 : 200x400 mm
- HB : 400x180 mm
- COVER : 35mm



SLAB THICKNESS: 150mm

REINFORCEMENT: T10@150C/C B/W (T&B)

ALL REINFORCEMENT TO BE DISCONTINUOUS OVER THE VOIDS

STORE / HALF LANDING FLOOR BEAM & SLAB REINFORCEMENT PLAN (+1865 & +4865)

SCALE 1:100



RC SIDE WALLS AND CANOPY LOCATED BELOW



PHYSICAL FACILITIES DEVELOPMENT
SECTION
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REPUBLIC OF MALDIVES

PROJECT : **03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)**

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

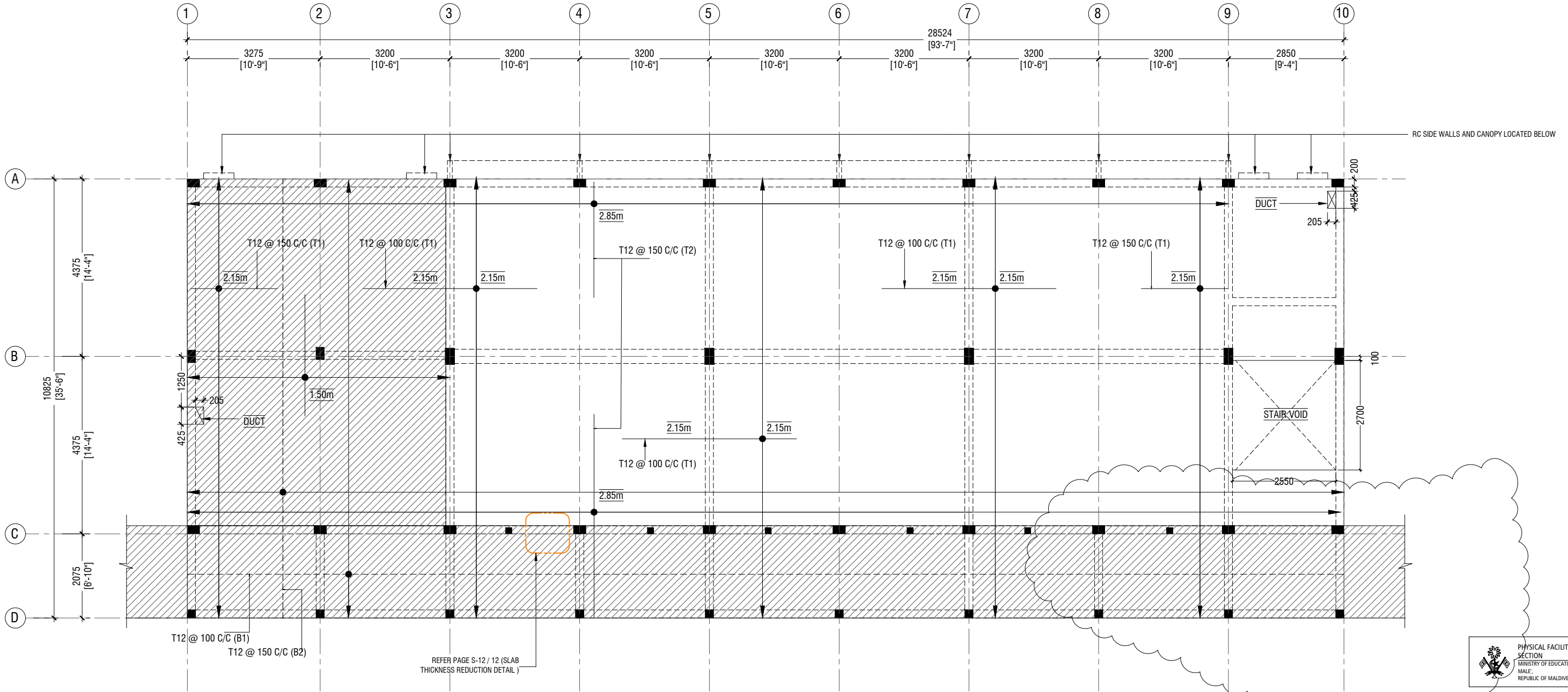
SCALE : AS GIVEN

DATE : 22.05.2022

AMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |
| | | |

DWG NO : **S - 06/ 14**



NOTE

| | | |
|--|-------------------------|--|
| | SLAB THICKNESS: | 180mm |
| | SLAB THICKNESS: | 135mm |
| | BOTTOM REINFORCEMENT: | T12@100 C/C ALONG SHORT DIRECTION (B1) (AS SHOWN) T12@150 C/C ALONG LONG SPAN (B2) (AS SHOWN) |
| | TOP REINFORCEMENT: | T12@150C/C (AS SHOWN, UNLESS STATED) |
| | TOP DISTRIBUTION STEEL: | T12@150C/C (NOT SHOWN) |
| | COVER : | 30mm |
| ALL REINFORCEMENT TO BE DISCONTINUOUS OVER THE VOIDS | | |

FIRST & SECOND FLOOR SLAB REINFORCEMENT PLAN

SCALE 1:100



PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

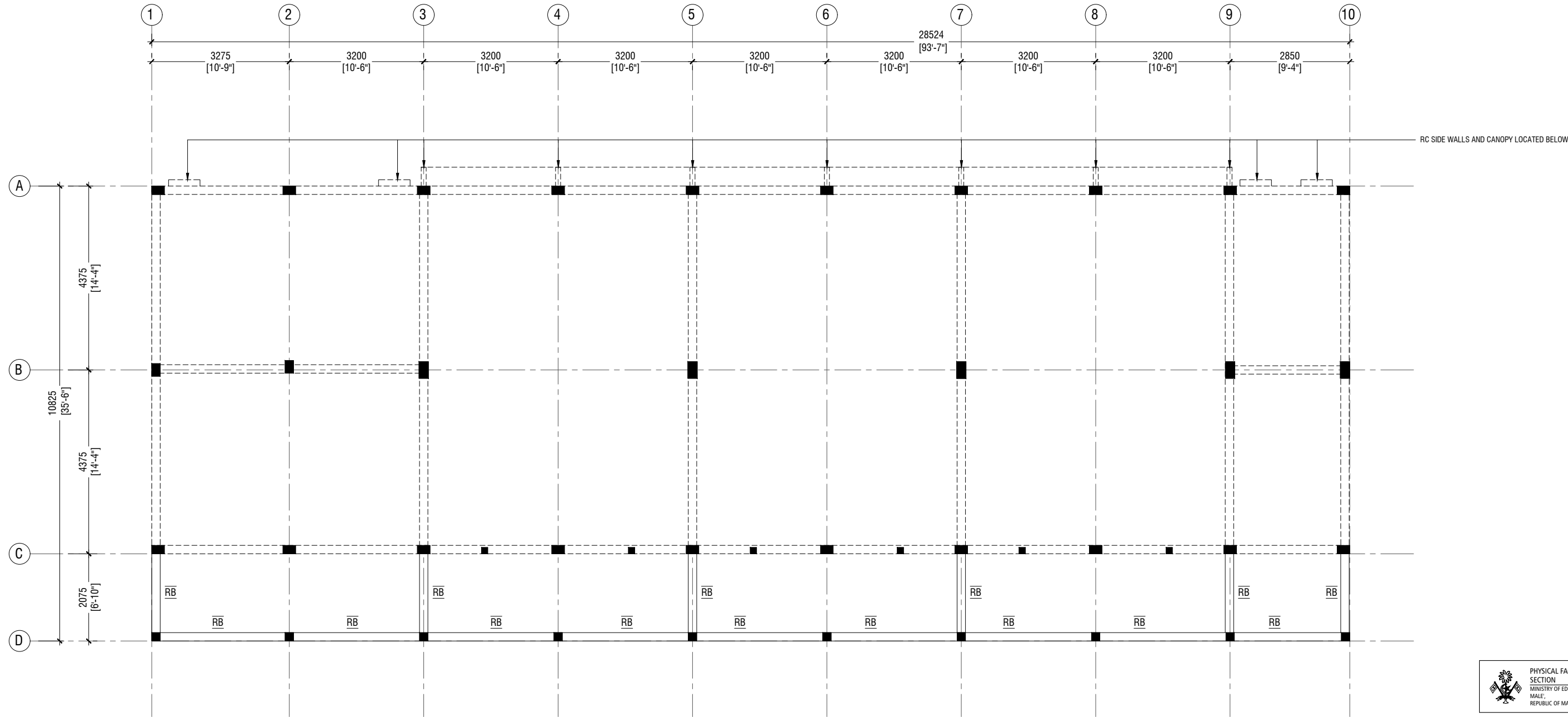
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DATE : 22.05.2022

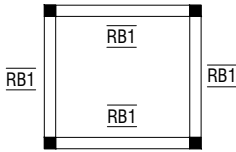
AMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |
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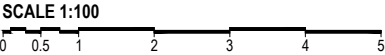
DWG NO : S - 07/ 14



ROOF BEAM PLAN - 1 @9.15 FROM F.F.L




SLAB ROOF BEAM PLAN @3.20 FROM N.G.L



NOTE:

| COLUMN SIZES | |
|--------------|----------------|
| C1 | : 225 x 400 mm |
| C2 | : 225 x 400 mm |
| C3 | : 200 x 300 mm |
| C4 | : 200 x 200 mm |
| C5 | : 200 x 300 mm |
| SC | : 150 x 150 mm |
| COVER | : 40mm |

| BEAM SIZES | |
|------------|--------------|
| RB | : 200x300 mm |
| COVER | : 35mm |



PHYSICAL FACILITIES DEVELOPMENT
SECTION
MINISTRY OF EDUCATION,
MALE,
REPUBLIC OF MALDIVES

PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

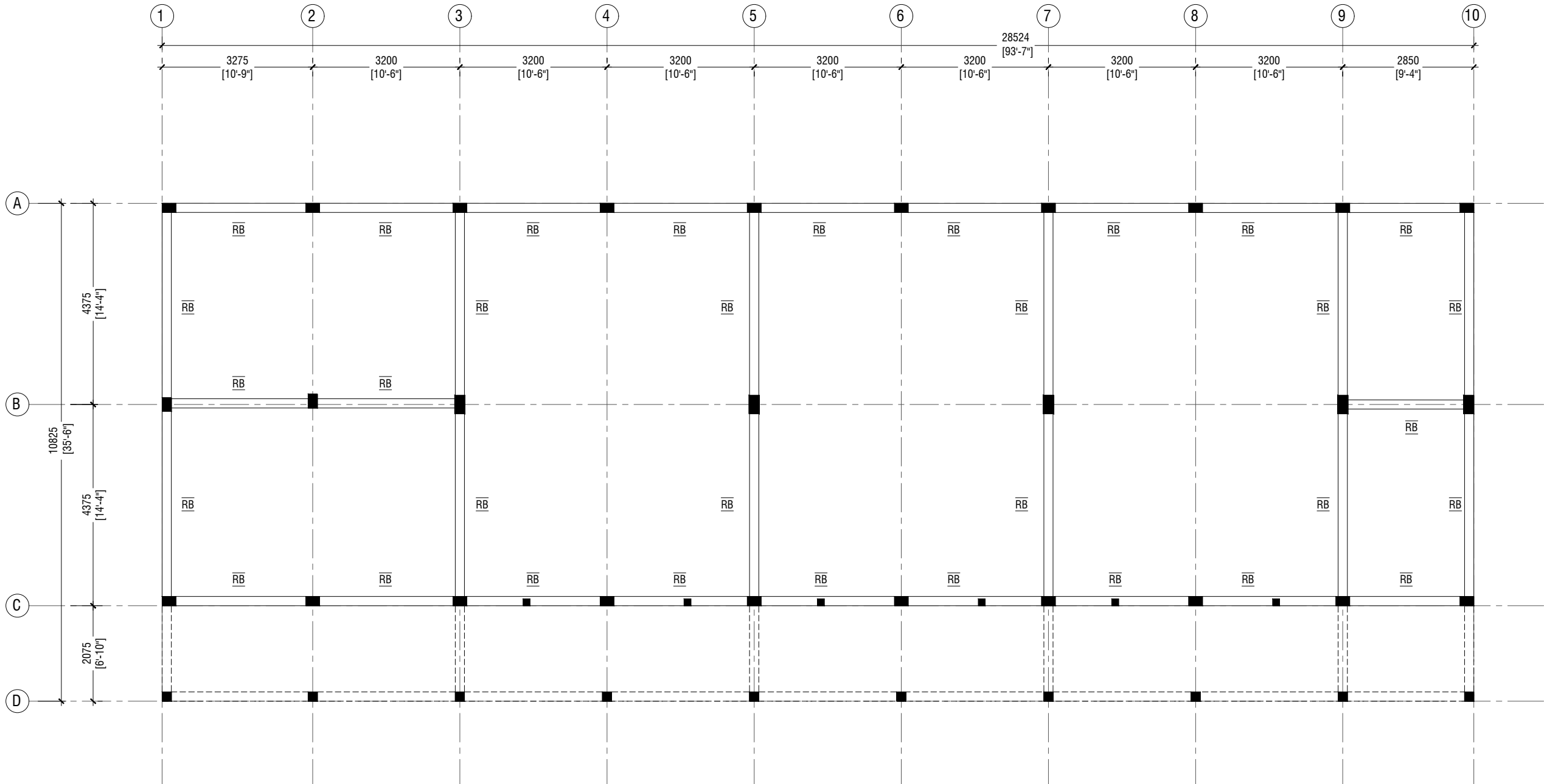
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DATE : 22.05.2022

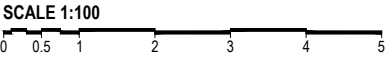
AMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |

DWG NO : S - 08/ 14



ROOF BEAM PLAN - 2 @9.706 FROM F.F.L




NOTE:

COLUMN SIZES

C1 : 225 x 400 mm
C2 : 225 x 400 mm
C3 : 200 x 300 mm
C4 : 200 x 200 mm
C5 : 200 x 300 mm
SC : 150 x 150 mm
COVER : 40mm

BEAM SIZES

RB : 200x300 mm
COVER : 35mm



PHYSICAL FACILITIES DEVELOPMENT
SECTION
MINISTRY OF EDUCATION,
MALE,
REPUBLIC OF MALDIVES

PROJECT : **03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)**

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

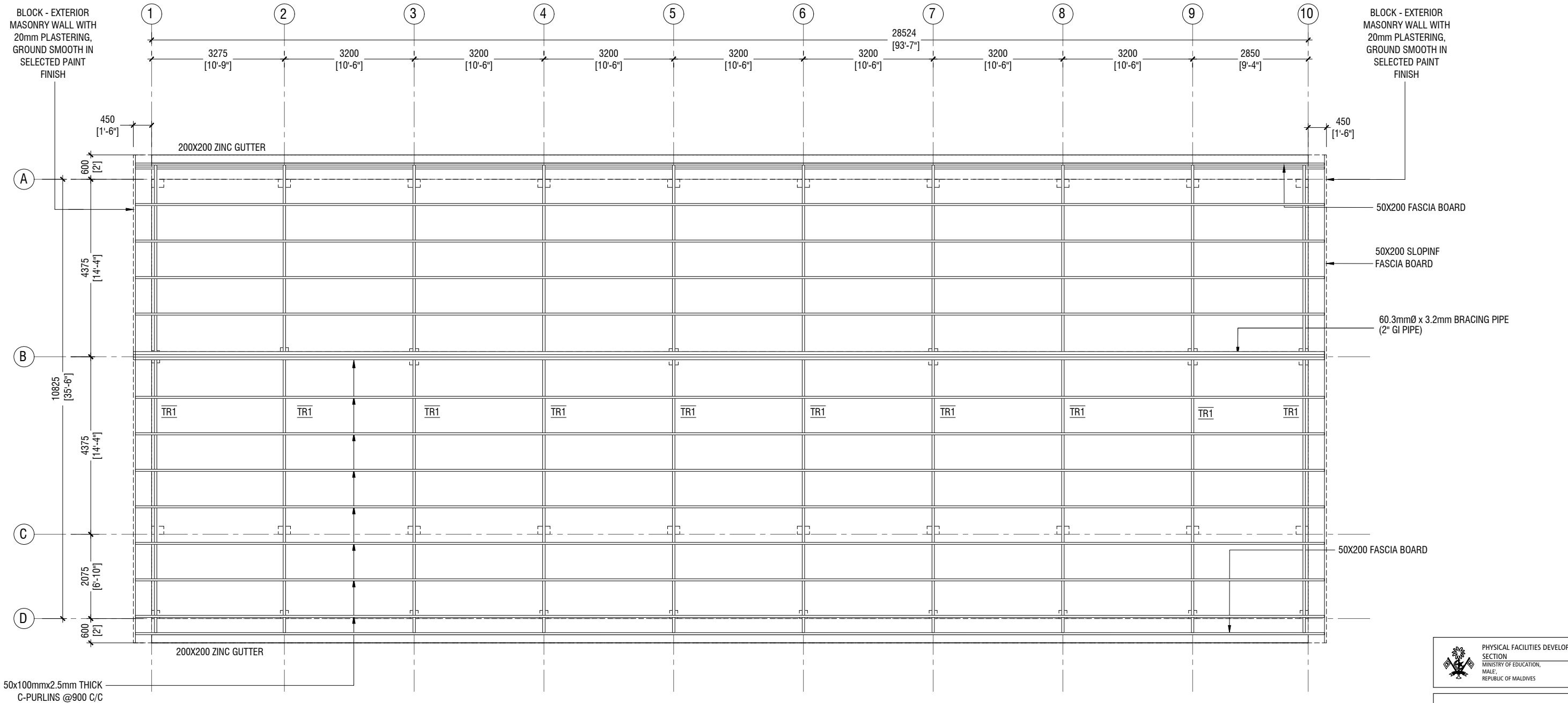
CHECKED : MOE

SCALE : AS GIVEN

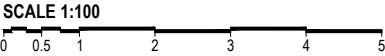
DATE : 22.05.2022


| AMENDMENTS | | |
|------------|------|-------------|
| Issue | Date | Description |
| | | |

DWG NO : **S - 09/ 14**



ROOF TRUSS & FRAMING PLAN





PHYSICAL FACILITIES DEVELOPMENT
SECTION
MINISTRY OF EDUCATION,
MALE,
REPUBLIC OF MALDIVES

PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

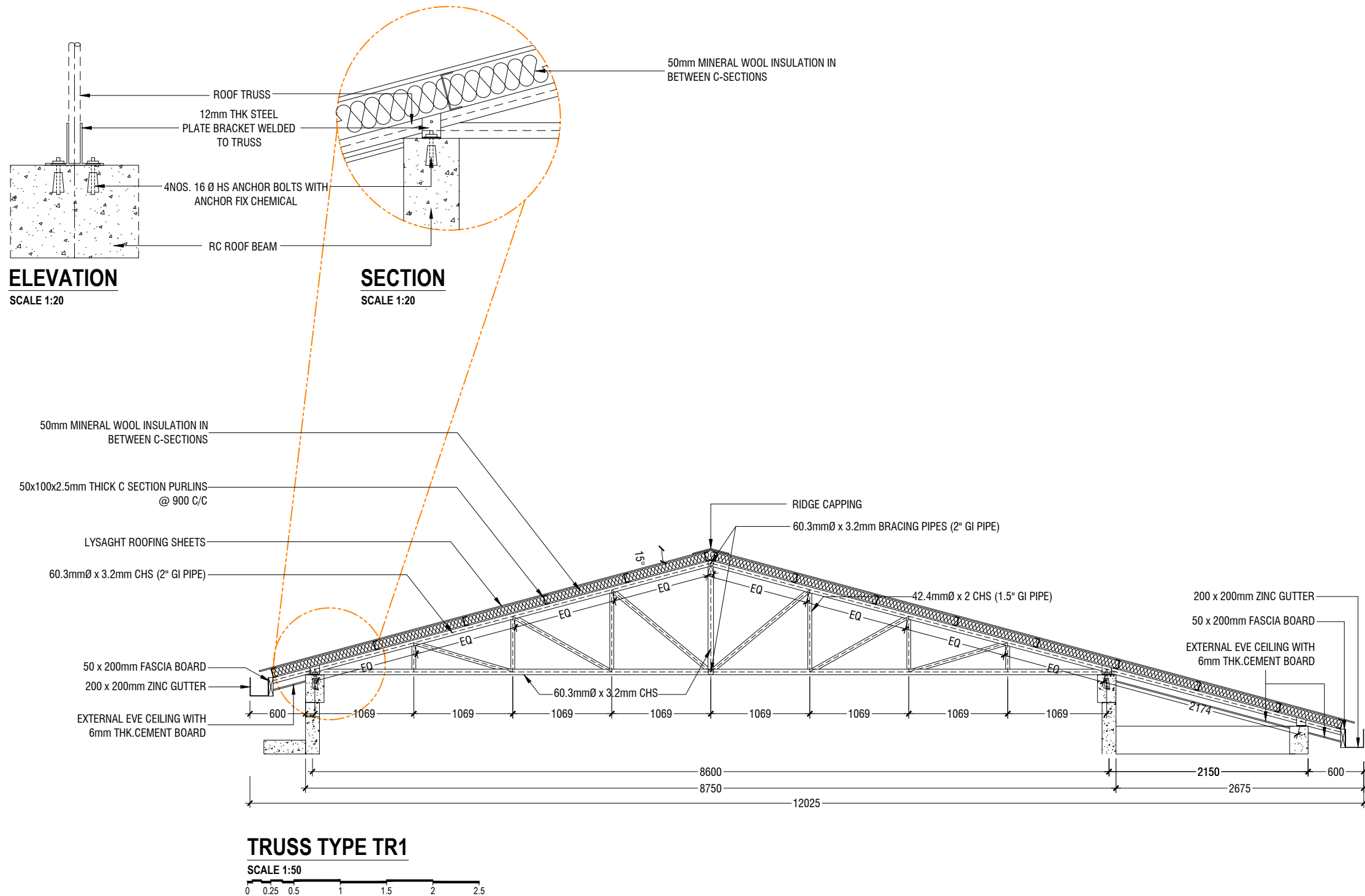
SCALE : AS GIVEN

DATE : 22.05.2022

AMENDMENTS

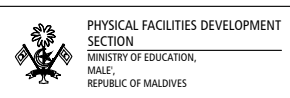
| Issue | Date | Description |
|-------|------|-------------|
| | | |

DWG NO : S - 10/ 14



NOTE

- CORROSION PROTECTION: GALVANIZED COATING THICKNESS SHALL NOT BE LESS THAN 80 MICRONS
- ALL FILLET WELDS TO BE 4mm THICK
- CONTRACTOR AND CONSULTANT TO CONFIRM ON SITE TRUSS SPAN AND DIMENSIONS BEFORE FABRICATION



PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

SCALE : AS GIVEN

DATE : 22.05.2022

AMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |

DWG NO : A - 11/ 28

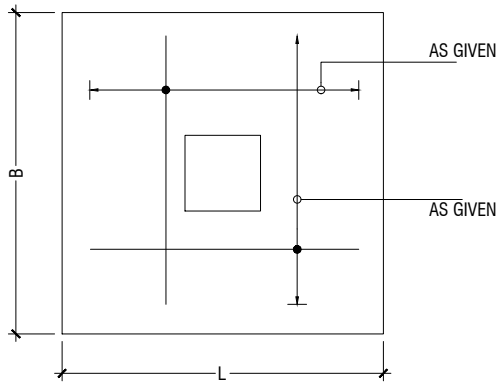
| | DIMENSION | REINFORCEMENT |
|----|-------------------|---------------------|
| F1 | 2500 x 2500 x 400 | T16@125 C/C B/W (B) |
| F2 | 2300 x 2300 x 350 | T16@110 C/C B/W (B) |
| F3 | 1800 x 1800 x 300 | T12@125 C/C B/W (B) |
| F4 | 1500 x 1500 x 300 | T12@150 C/C B/W (B) |
| F5 | 1300 x 1300 x 300 | T12@150 C/C B/W (B) |
| F6 | 1800 x 1200 x 300 | T16@120 C/C B/W (B) |
| F7 | 1500 x 1200 x 300 | T16@120 C/C B/W (B) |
| F8 | 900 x 900 x 300 | T12@150 C/C B/W (B) |

FOUNDATION DEPTH = 1200mm

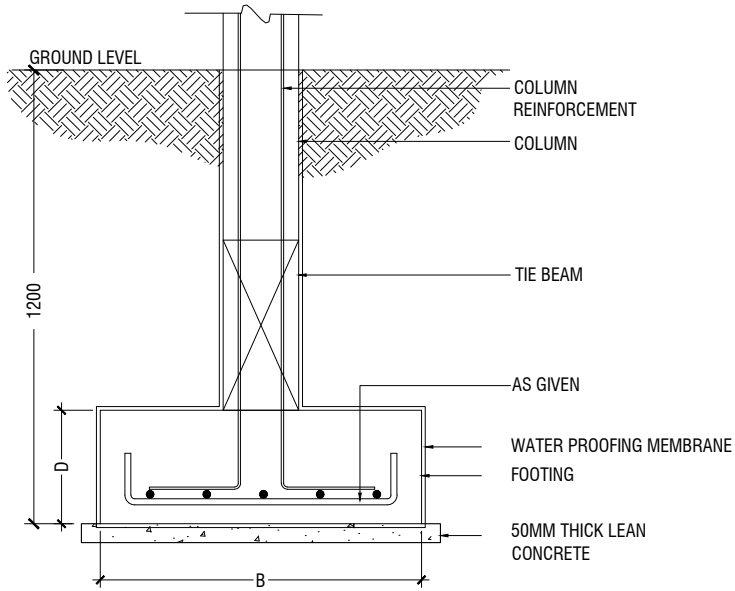
NOTE:-
COVER TO FOUNDATION = 50mm
COVER TO COLUMNS = 40mm
COVER TO BEAMS = 35mm
COVER TO SLAB = 30mm
LAPS = Ø OF BAR x 45
BEAMS @END SUPPORT = Ø OF BAR x 12

GRADE OF CONCRETE = M25

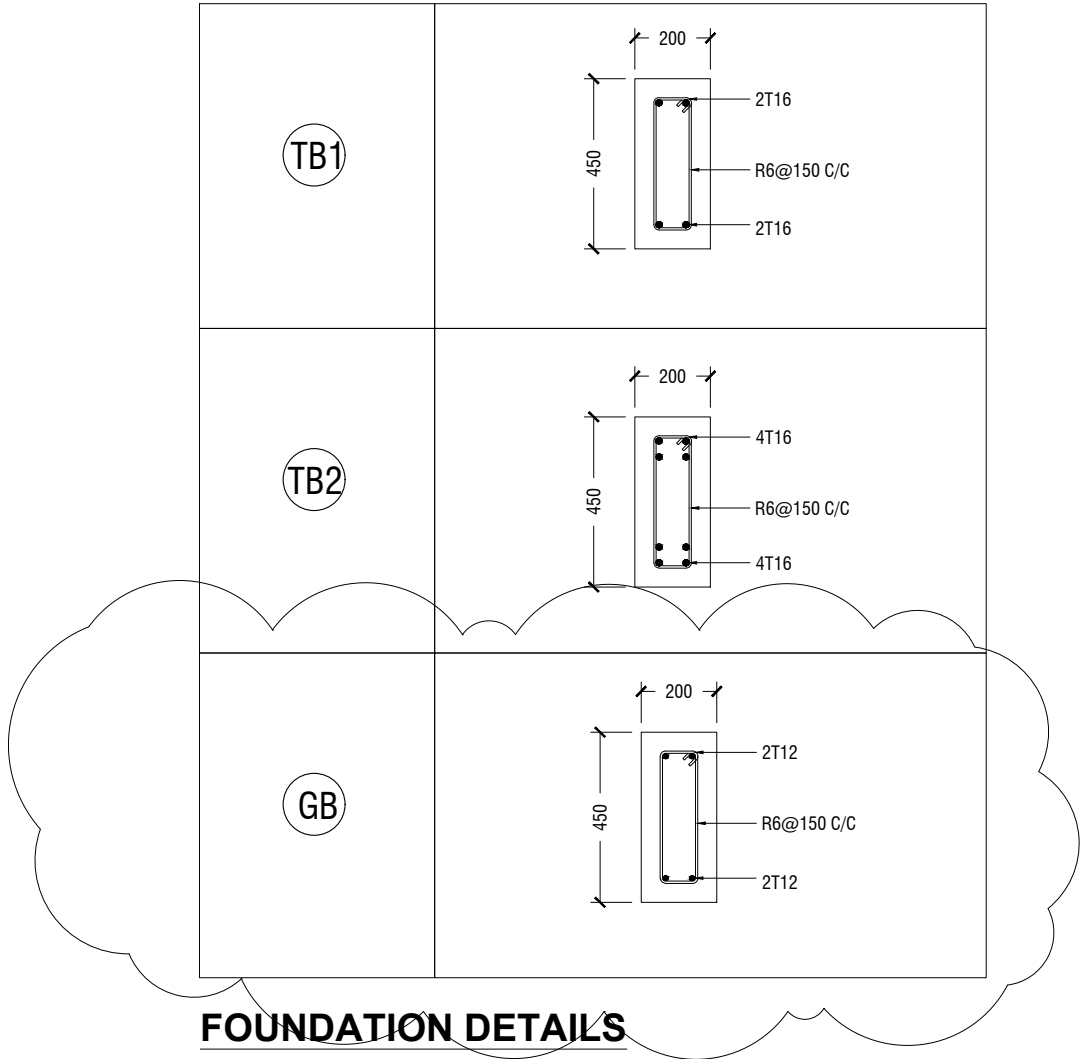
FOUNDATION PADS



PLAN



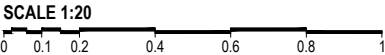
TYPICAL FOOTING SECTION



FOUNDATION DETAILS

| | GROUND & 1ST FLOOR |
|----|--------------------|
| C1 | |
| C2 | |
| C3 | |
| C4 | |
| C5 | |
| SC | |

COLUMN DETAIL
STRUCTURAL DETAILS - 1



PHYSICAL FACILITIES DEVELOPMENT
SECTION
MINISTRY OF EDUCATION,
MALE',
REPUBLIC OF MALDIVES

PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

SCALE : AS GIVEN

DATE : 22.05.2022

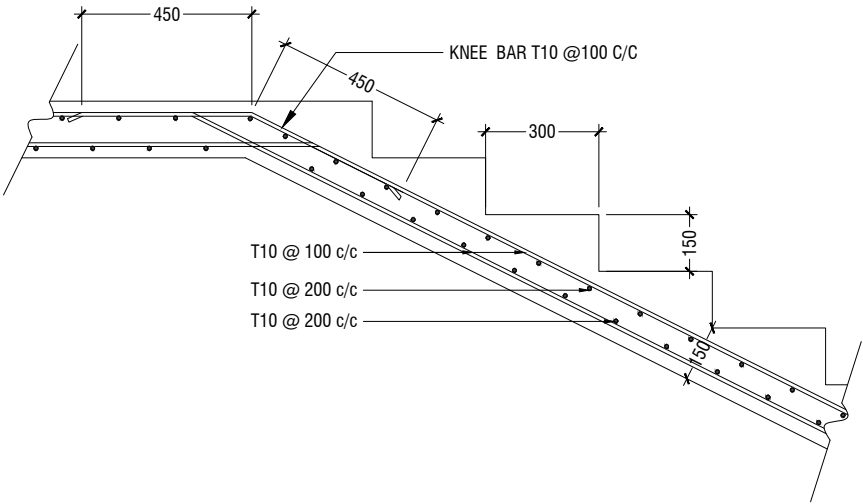
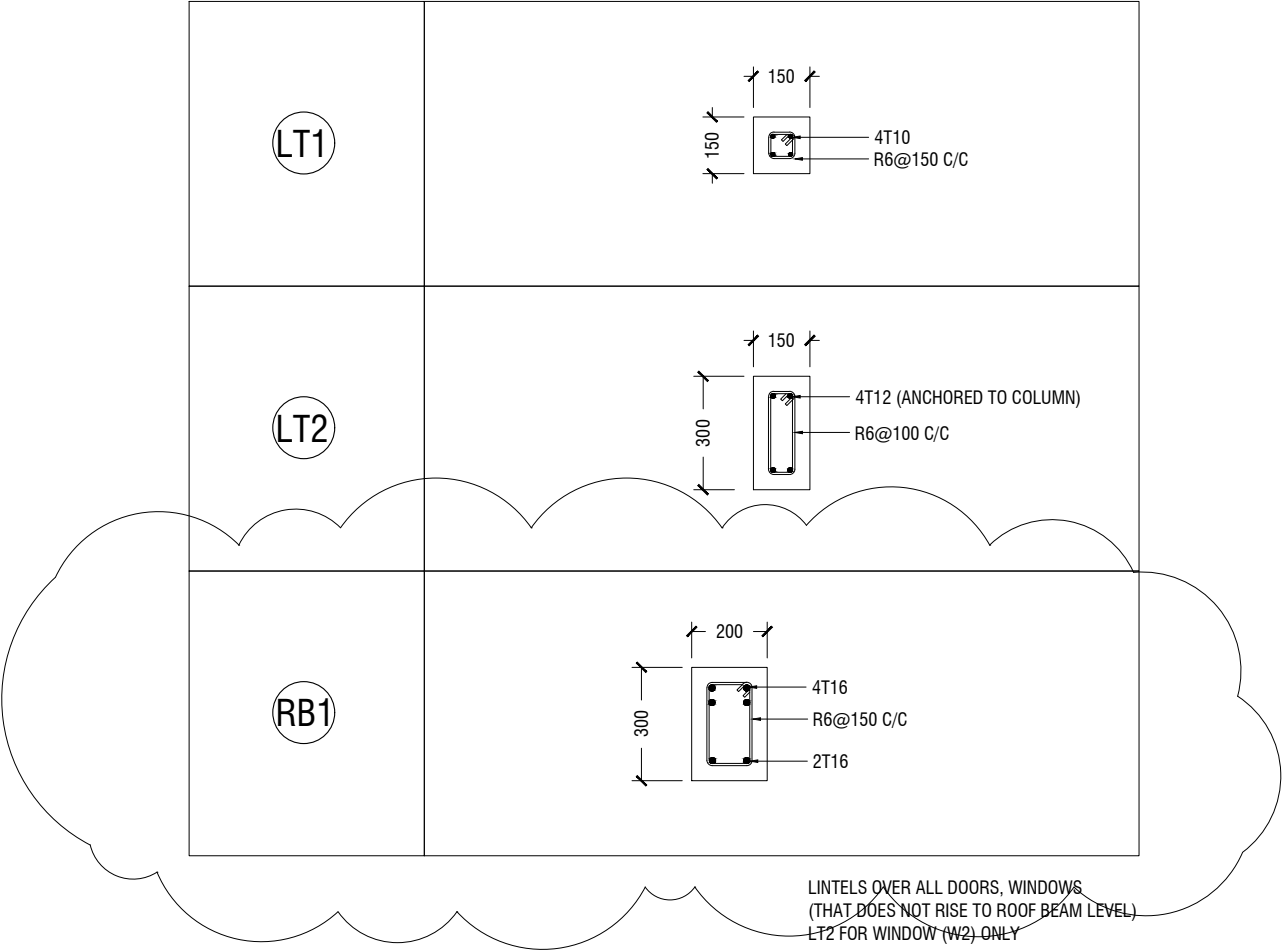
| AMENDMENTS | | |
|------------|------|-------------|
| Issue | Date | Description |
| | | |

DWG NO : S - 12/ 14

| | MIDSPAN | SUPPORT |
|----|---------|---------|
| B1 | | |
| B2 | | |
| B3 | | |
| B4 | | |
| RB | | |
| HB | | |

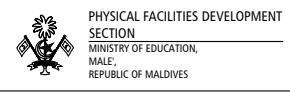
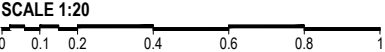
BEAM DETAIL

NOTE:
PROVIDE 25MM SPACER BAR @ 2000 C/C BETWEEN TWO LAYERS
OF BEAM REINFORCEMENT



MAIN STAIRCASE REINFORCEMENT DETAIL

STRUCTURAL DETAILS - 2



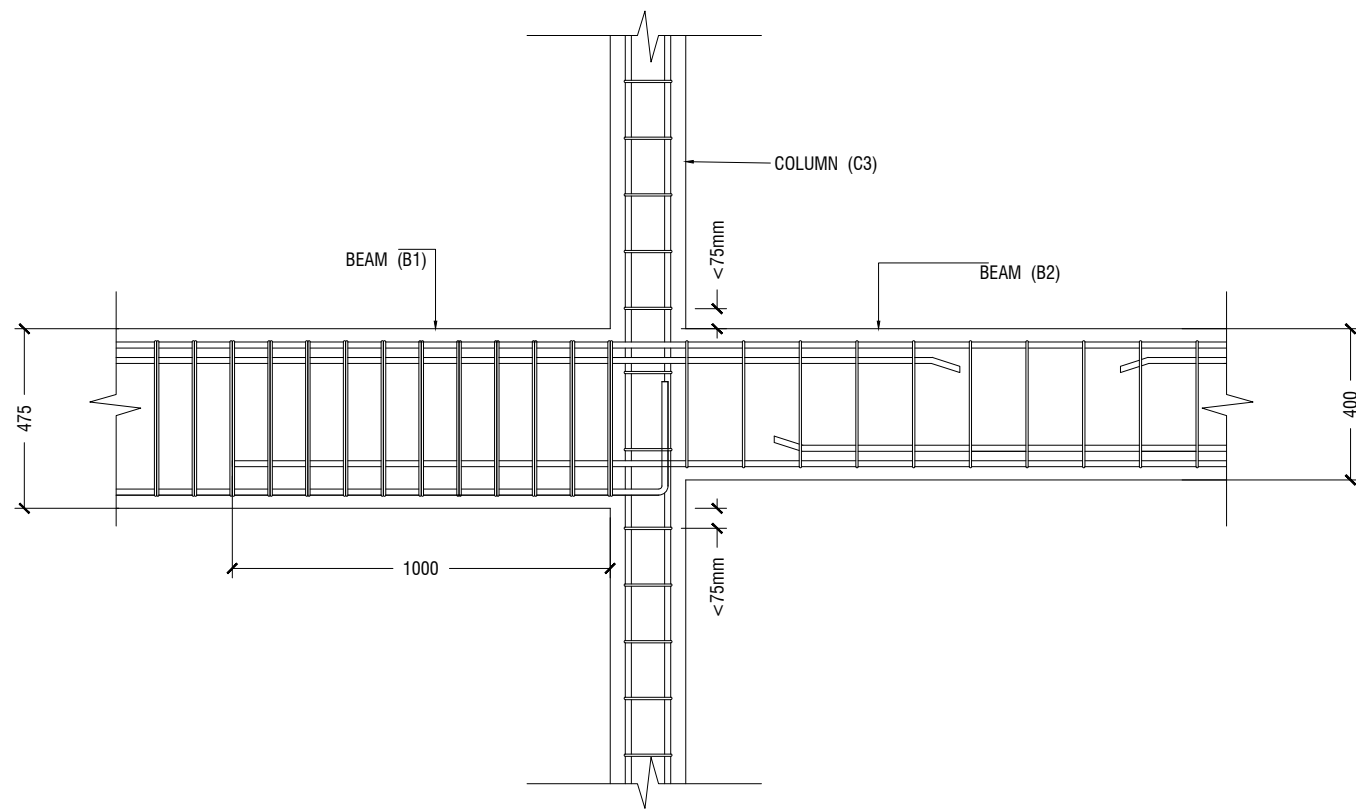
PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :
ARCHITECT : MOE
ENGINEER : MOE
DRAWN : MOE
CHECKED : MOE
SCALE : AS GIVEN
DATE : 22.05.2022

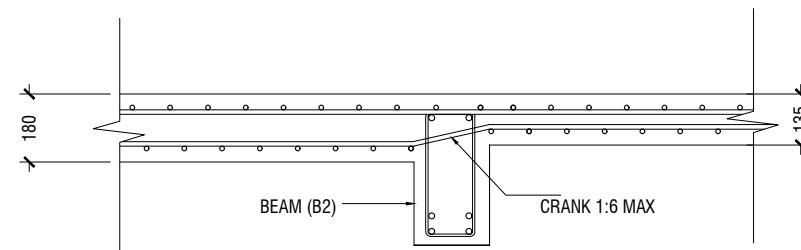
AMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |

DWG NO : S - 13/ 14



B1 TO B2 CONNECTION DETAIL



SLAB THICKNESS REDUCTION DETAIL

STRUCTURAL DETAILS - 3

SCALE 1:20



PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

SCALE : AS GIVEN

DATE : 22.05.2022

AMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |

GENERAL NOTES

THE GENERAL NOTES SHALL BE READ IN CONJUNCTION WITH THE CONTRACT SPECIFICATIONS AND DRAWINGS. REGARDLESS OF WHETHER OR NOT SHOWN IN DRAWINGS OR OTHER TENDER DOCUMENTS, THE STANDARD PROVISIONS SPECIFIED HEREUNDER FOR COMPLIANCE BY THE CONTRACTOR SHALL APPLY TO ALL RELEVANT PORTIONS OF THE STRUCTURAL WORKS AND SHALL FORM PART OF THIS CONTRACT.

1.0 VERIFICATION OF DIMENSIONS AND LEVELS

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LEVELS ON SITE, AND RESOLVE ALL DISCREPANCIES WITH THE ARCHITECT OR ENGINEER PRIOR TO COMMENCEMENT OF WORK.
- DRAWING INDICATES GENERAL & TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE OF SIMILAR CHARACTER TO DETAILS SHOWN AND ALTHOUGH NOT SPECIFICALLY INDICATED, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED SUBJECTED TO REVIEW BY THE ENGINEER.
- PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LEVELS IN THE CONTRACT DRAWINGS.
- DISCREPANCIES IN DRAWINGS ARISING FROM SUCH VERIFICATION WORKS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.

2.0 SHOP DRAWINGS

- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ENSURING TOTAL COORDINATION OF ALL WORKS AND SHALL TAKE SITE MEASUREMENTS PRIOR TO THE PREPARATION OF ANY SHOP DRAWINGS OR BEFORE COMMENCING FABRICATION.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL SPECIALIST TRADES, SUCH AS PRESTRESSING, CURTAIN WALLING, ETC. FOR REVIEWS AND COMMENTS BY THE ARCHITECT/ENGINEER PRIOR TO COMMENCEMENT OF WORK. SUCH SHOP DRAWINGS SUBMITTED SHALL INCORPORATE ALL NECESSARY CONNECTION DETAILS TO THE STRUCTURAL MEMBERS SUCH AS CAST-IN INSERTS, EMBEDDED PLATES, ETC.

3.0 INCORPORATION OF M&E REQUIREMENTS IN THE STRUCTURE

- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ENSURING TOTAL COORDINATION OF STRUCTURAL, M & E PENETRATION DRAWINGS OF SERVICES AND SUBMIT SUCH SHOP DRAWINGS TO THE ARCHITECT/ENGINEER FOR REVIEWS AND APPROVAL PRIOR TO COMMENCEMENT OF WORK.
- THESE SHOP DRAWINGS SHALL INCORPORATE ALL MECHANICAL, ELECTRICAL AND SANITARY WORKS TO BE EMBEDDED IN CONCRETE AND ALL OPENINGS FOR ALL PIPE OR DUCT WORKS, BASED ON THE REQUIREMENTS OF M & E DRAWINGS IN HIS POSSESSION.
- HE SHALL CHECK AND RESOLVE ALL DISCREPANCIES WITH THE RESPECTIVE ENGINEER PRIOR TO PLACEMENT OF CONCRETE.

4.0 LEAN CONCRETE FOR SUSPENDED STRUCTURES

- UNLESS OTHERWISE STATED, 50 MM THICK LEAN CONCRETE WITH A MINIMUM 28-DAY CUBE STRENGTH OF 15N/MM2 SHALL BE PROVIDED ON ALL SOIL SURFACES FORMING THE UNDERSIDE OF STRUCTURAL CONCRETE MEMBERS.

5.0 STRUCTURAL ELEMENTS ON GRADE

- UNLESS OTHERWISE STATED, A SINGLE LAYER OF 0.25 MM(HEAVY DUTY) POLYTHENE SHEET, OR EQUIVALENT THERMOPLASTIC MATERIAL, LAID OVER A COMPACTED 60 MM THICK LAYER OF HARD CORE BLINDED WITH SAND TO PREVENT GROUT LOSS FROM SEEPAGE INTO THE GROUND SHALL BE PROVIDED ON ALL SOIL SURFACES FORMING THE UNDERSIDE OF THE NON-SUSPENDED SLABS.

6.0 SUBGRADE UNDER STRUCTURAL ELEMENTS

- WHERE THE CONTRACTOR REQUIRES REMOVAL AND SUBSEQUENT BACKFILL OF SUBGRADE PRIOR TO CASTING OF PILECAP/WALL/BEAM/SLAB, HE SHALL ENSURE THAT THE BACKFILL IS OF APPROVED MATERIAL AND THAT THE BACKFILL SHALL BE REASONABLY COMPACTED TO ENSURE THAT THE COMPACTED SOIL IS ABLE TO WITHSTAND THE WEIGHT OF THE WET CONCRETE. THE CONTRACTOR SHALL EXERCISE PROPER SKILL AND CARE TO AVOID DAMAGE TO ADJACENT INSTALLED STRUCTURES ARISING FROM HIS CONSTRUCTION SEQUENCE.

7.0 WATERPROOFING FOR STRUCTURES

- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND METHOD STATEMENTS FOR THE ENGINEER'S APPROVAL PRIOR TO COMMENCEMENT OF WORK. REQUIRED SHOP DRAWING DETAILS INCLUDE BUT ARE NOT LIMITED TO TREATMENT OF FLASHINGS, WATERSTOP AT CONSTRUCTION JOINTS, WALL AND SLAB PENETRATIONS.
- ALL PENETRATIONS THROUGH STRUCTURAL ELEMENTS SHALL BE CAST-IN, SLEEVED AND PROVIDED WITH APPROVED PUDDLE FLANGE DETAIL. IF FOR ANY REASON THE CONTRACTOR IS UNABLE TO LAY WATERSTOP AT CONSTRUCTION JOINTS AS INDICATED IN THE DRAWINGS, HE SHALL AT HIS OWN EXPENSES PROVIDE ADEQUATE GROUT TUBES FOR WATERPROOF PRESSURE GROUTING TO ENSURE WATERTIGHTNESS OF THE JOINT.
- ALL GROUT TUBES SHALL BE MARKED AND PROTECTED FROM BLOCKAGE.
- BACKFILLING OPERATIONS AGAINST VERTICAL SURFACE SHALL BE CARRIED OUT AS SOON AS THE WATERPROOFING BARRIER IS INSTALLED TO THE SATISFACTION OF THE ENGINEER.

8.0 CASTING LAYERS

- INCLINED CASTING LAYERS AND INCLINED CONSTRUCTION JOINTS SHALL BE AVOIDED.
- HORIZONTAL CASTING LAYERS SHALL NOT IN GENERAL EXCEED 0.6 M THICKNESS UNLESS OTHERWISE APPROVED BY THE ENGINEER.

9.0 FOUNDATIONS

- ALL FOUNDATIONS HAS BEEN DESIGNED FOR SAFE GROUND PRESSURE OF 150 KN/M.
- ALL BACKFILL SHOULD BE DONE WITH MATERIALS APPROVED BY THE CONSULTANT AND SOURCE. ALL BACKFILL SHOULD BE STRUCTURAL FILL, COMPACTED IN LAYERS AS SPECIFIED.
- WEAK POCKETS FOUND BELOW THE ASSUMED FOUNDATION LEVELS SHALL BE REMOVED AND REPLACED BY PLAIN CONCRETE.
- IN CASE OF EXCAVATIONS BELOW THE ASSUMED LEVEL OF THE FOUNDATION, THE SOIL SHALL BE REPLACED BY PLAIN CONCRETE.
- IN CASE GROUND WATER IS PRESENT ABOVE FOUNDATION LEVEL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING THE BELOW LEVEL OF FOUNDATIONS.
- THE CONTRACTOR SHALL MAINTAIN DRY WORKING CONDITIONS THROUGH OUT THE CONSTRUCTION PERIOD. RESTORING WATER TABLE CAN BE DONE AFTER BACKFILLING AND COMPACTION UP TO THE SLAB ON GRADE LEVEL, OR AS DIRECTED BY THE ENGINEER.
- NO BACK FILLING SHALL BE PLACED AGAINST WALLS RETAINING EARTH, UNLESS THE WALLS ACHIEVE SUFFICIENT STRENGTH TO PREVENT MOVEMENT OR STRUCTURAL DAMAGE.

10.0 CONSTRUCTION LOAD AND SHORING

- CONSTRUCTION LIVE LOAD IMPOSED ON ANY SINGLE FLOOR SHALL NOT EXCEED 1.5 KN/M2. UNLESS OTHERWISE APPROVED BY THE ENGINEER, DEAD LOAD OF THE TOP CONSTRUCTION FLOOR SHALL BE SUPPORTED BY TWO COMPLETED FLOORS DIRECTLY BELOW IT.
- PROPS TO BEAMS AND SLABS AT ANY FLOORS SHALL NOT BE REMOVED UNTIL THE TWO IMMEDIATE FLOORS ABOVE THAT LEVEL ARE CAPABLE OF SUPPORTING THEMSELVES AS WELL AS ANY LOADS IMPOSED DURING CONSTRUCTION. CONSIDERATIONS GOVERNING REMOVAL OF PROPS INCLUDE BUT ARE NOT LIMITED TO THE ATTAINMENT OF 28-DAY STRENGTH FOR THE CONCRETE, DESIGN LOAD CAPACITY OF THE FLOOR UNDER REVIEW AND THE COMPLETION OF PRESTRESSING AND GROUTING OPERATIONS IN THE CASE OF A PRESTRESSED STRUCTURAL FLOOR SYSTEM.

- PROPS SHALL BE LEFT IN PLACE FOR SUPPORTING THE CONSTRUCTION LOADS APPROVED BY THE ENGINEER.
- NO ALLOWANCE HAS BEEN MADE IN THE DESIGN OF THE PERIMETER BEAMS/WALLS FOR THE SUPPORT OF TEMPORARY SCAFFOLDINGS.
- THE CONTRACTER SHALL ENGAGE HIS OWN PROFESSIONAL ENGINEER TO DESIGN AND STRENGTHEN THE BEAMS/WALLS.
- THE CONTRACTER SHALL ENGAGE HIS OWN PROFESSIONAL ENGINEER CHECK THE ADEQUACY OF SHORING DETAIL PROVIDED PROCEEDING THE WORK, AS SHORING WAS DESIGNED, CONSIDERING THE STATUS OF THE BUILDING AT THE TIME OF DESIGN.

11.0 CONCRETE COVER

- MINIMUM COVER TO OUTERMOST REINFORCEMENT INCLUDING LINKS SHALL BE AS FOLLOWS.

| STRUCTURAL ELEMENT | COVER (mm) |
|----------------------------------|------------|
| RAFT BEAM & SLAB (EARTH FACE) | 60 |
| RAFT BEAM & SLAB (INTERNAL FACE) | 60 |
| COLUMN | 40 |
| BEAM | 35 |
| BEAM (EXTERNAL FACE) | 40 |
| SLAB | 30 |
| INTERNAL WALL | 30 |
| EXTERNAL WALL | 40 |

- NOTE: EARTH FACE COVER OF BEAMS, COLUMNS & WALLS SHOULD BE 50mm

12.0 MATERIAL STRENGTHS

12.1 CONCRETE

- UNLESS OTHERWISE STATED, ORDINARY PORTLAND CEMENT CONFORMING TO BS 12, TO BE USED FOR ALL THE RC STRUCTURAL ELEMENTS.
- THE MINIMUM 28-DAY COMPRESSIVE CUBE STRENGTH OF CONCRETE FOR SPECIFIED STRUCTURAL ELEMENTS SHALL BE AS FOLLOWS UNLESS OTHERWISE STATED:

| | | |
|---|--|----------|
| MAIN BUILDING | | |
| LEAN CONCRETE | | 15 N/mm2 |
| MASS CONCRETE | | 30 N/mm2 |
| COLUMN, BEAM AND SLAB | | 30 N/mm2 |
| EXTERNAL WORK | | |
| PAVEMENTS | | 30 N/mm2 |
| ALL OTHERS (CULVERT, DRAINS, MANHOLE, ETC) | | 30 N/mm2 |
| FOUNDATION | | |
| PILECAP, FOOTING, RAFT TIE-BEAM, CAPPING BEAM | | 30 N/mm2 |

- CEMENT SHALL BE ORDINARY PORTLAND CEMENT TO BS 12.

12.2 REINFORCEMENT

- UNLESS OTHERWISE STATED, BAR SIZE 10MM DIAMETER OR LARGER SHALL BE HIGH TENSILE TYPE II DEFORMED BARS. THE MINIMUM YIELD STRENGTH OF STEEL BAR REINFORCEMENT SHALL BE AS FOLLOWS:

| | |
|-----------------------------------|-----------|
| MILD STEEL PLAIN BAR | 250 N/mm2 |
| HIGH TENSILE TYPE II DEFORMED BAR | 415 N/mm2 |

12.25 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.

| | |
|-------------|---------------|
| | BAR GRADE 415 |
| TENSION | 45Ø |
| COMPRESSION | 45Ø |

Ø IS DIAMETER OF THE SMALLER SIZED LAPPED BAR.

- NO SPLICE SHALL BE MADE AT POINT OF MAXIMUM STRESS,EG IN BEAMS AND SLABS, THERE SHALL BE NO SPLICING OF TOP BARS OVER SUPPORTS NOR BOTTOM BARS AT MID-SPANS. SPLICES SHALL BE STAGGERED WHEREVER POSSIBLE. LAP LENGTH FOR UNEQUAL SIZE BARS (OR WIRES IN FABRIC) MAY BE BASED UPON THE SMALLER BAR. FOR BUNDLED BARS, THE EQUIVALENT DIAMETER SHALL BE USED. CRANKING OF BARS SHALL NOT EXCEED A SLOPE OF 1:10.
- FOR LAP LENGTH, WHERE SYMBOLS ARE NOT INDICATED, THE TENSION LAP LENGTH SHALL BE FOLLOWED.

13.0 STIRRUPS, LINKS AND TIES

- ALL STIRRUPS, LINKS AND TIES IN BEAMS, COLUMNS AND WALLS RESPECTIVELY SHALL TERMINATE NOT MORE THAN 75mm FROM THE FACE OF ANY ADJACENT STRUCTURAL MEMBERS.

14.0 SLAB DISTRIBUTION BARS

- REGARDLESS OF WHETHER OR NOT SHOWN ON PLAN, ALL DISTRIBUTION BARS FOR SLAB SHALL COMPRISE TYPICALLY ONE OF THE FOLLOWING COMBINATIONS, UNLESS OTHERWISE STATED IN THE RELEVANT DRAWINGS :

| | |
|--|-----------------------|
| SLAB THICKNESS (mm) | MIN. DISTRIBUTION BAR |
| 250 OR LESS | T10-300 |
| GREATER THAN 250 BUT LESS THAN OR EQUAL TO 300 | T10-200 |
| GREATER THAN 300 BUT LESS THAN OR EQUAL TO 400 | T10-150 |

15.0 FLOOR RENDERING

- THICKNESS OF SCREED RENDERING/MASS CONCRETE TOPPING EXCEEDING 60 OR MORE SHALL BE REINFORCED WITH ONE LAYER OF R6.

16.0 SHRINKAGE CRACKS

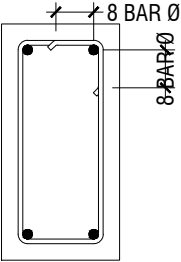
- THE SURFACE OF CONCRETE SHALL BE ADEQUATELY AND CONTINUOUSLY CURED TO SPECIFICATION TO PREVENT FORMATION OF SHRINKAGE CRACKS.THOUGH SHRINKAGE CRACKS HAVE NO EFFECT ON THE STRENGTH AND INTEGRITY OF THE STRUCTURE,THEY SHOULD BE SEALED BY EPOXY PRESSURE GROUTING. ALL COST INCURRED FOR THE NECESSARY SEALING UP OF SHRINKAGE CRACKS BY EPOXY PRESSURE GROUTING SHALL BE DEEMED TO BE INCLUDED IN THE CONCRETE WORK AS TENDERED.

17.0 STEEL BAR CORROSION PROTECTION

- ALL EXPOSED BARS FOR FUTURE CONSTRUCTION PURPOSES (EXCEEDING 3 MONTHS) MUST BE COATED WITH MASTER EMACO 8100 AP OR APPROVED EQUIVALENT AND PROVIDED WITH ADEQUATE MAINTENANCE.

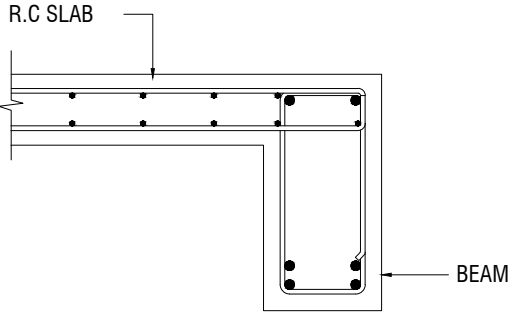
18.0 SPACER BARS

- ALL SPACER BARS BETWEEN 2 OR MORE LAYERS OF REINFORCEMENT SHALL T25 OR BAR DIAMETER (WHICHEVER IS GREATER) AT ±1-5M C/C.

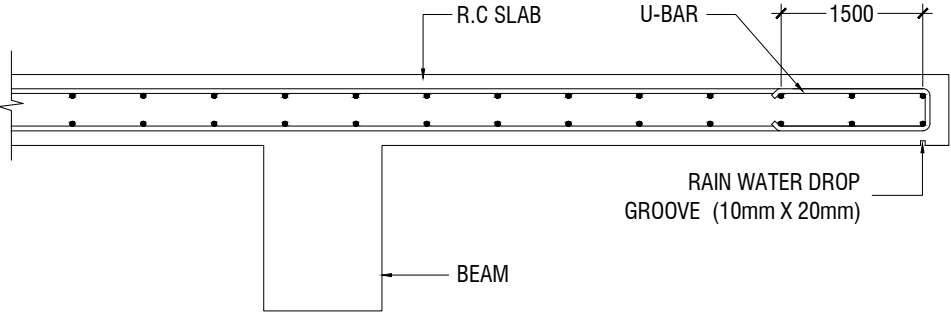


Ø = DIA OF LINK

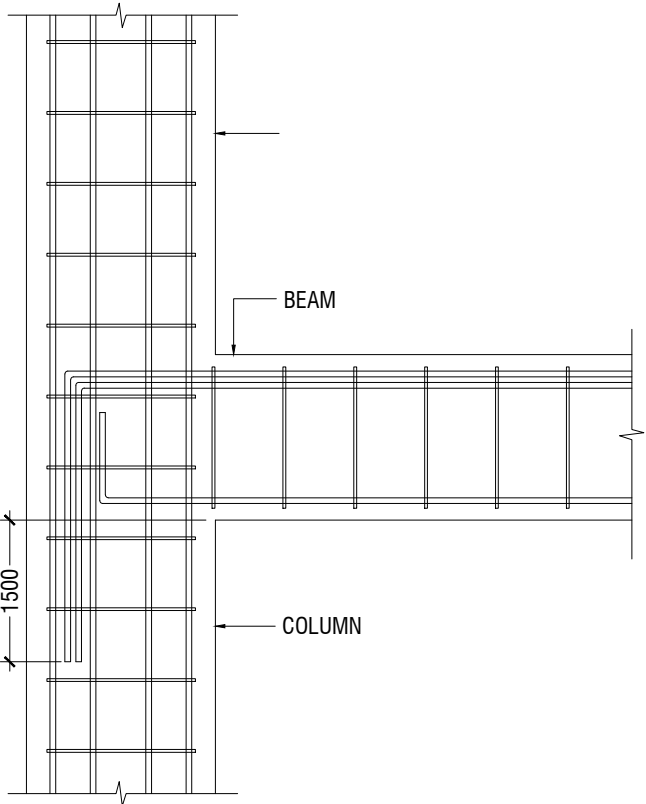
SHEAR LINKS ANCHORAGE DETAIL



SLAB-BEAM ANCHORAGE DETAIL



CANTILEVERED SLAB EDGE DETAIL



BEAM TO COLUMN CONNECTION

19.0 STRUCTURAL TIMBER SPECIFICATION

19.1 THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE COMPLETED STRUCTURE, AND ARE NOT INTENDED TO INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, SEQUENCES, AND FOR JOB SAFETY.

19.2 THE ENGINEER DOES NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

19.3 ALL CONSTRUCTION IS IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL WORK IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.

19.4 ALL TIMBER FOR STRUCTURAL USE SHALL BE HARDWOOD OR SOFTWOOD OF VISUAL GRADE C/D IN ACCORDANCE WITH BS 5756 WITH THE FOLLOWING MINIMUM GRADE STRESSES:

- 19.5 CONNECTIONS
- PLATES - STAINLESS STEEL GRADE 316 OF STATED THICKNESS
 - BOLTS - SS GRADE 316

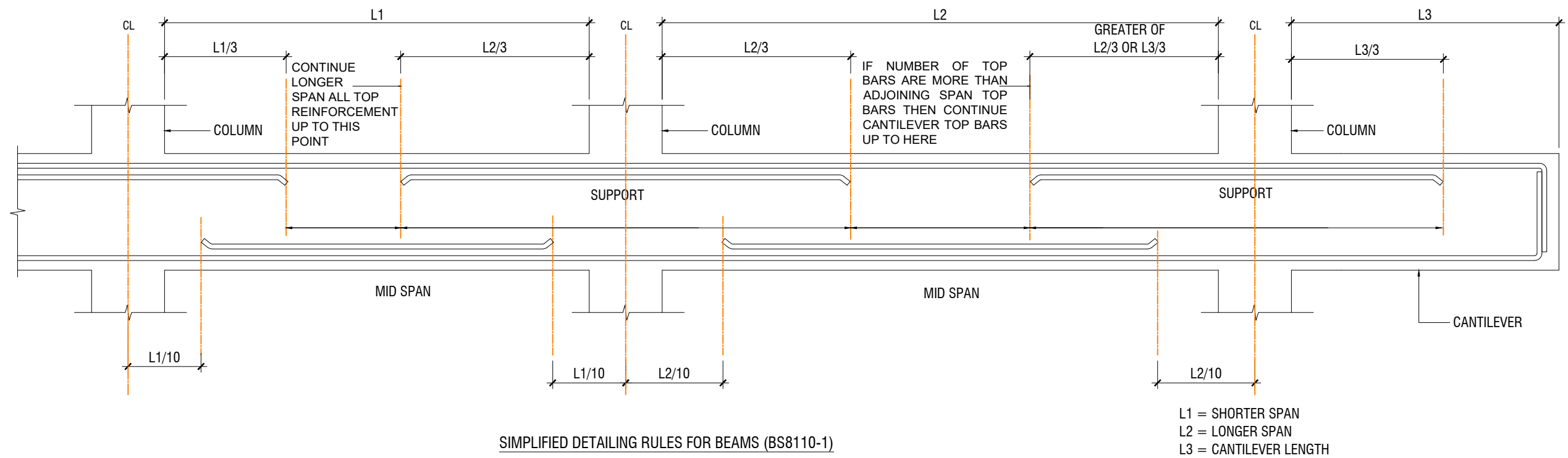
- 19.6 TIMBER TREATMENT
- MOISTURE - PRESSURE IMPREGNATION OF CCA
 - INSECTS - TERMITE TREATMENT FOR TIMBER IN / NEAR GROUND

20.0 STRUCTURAL STEEL SPECIFICATION

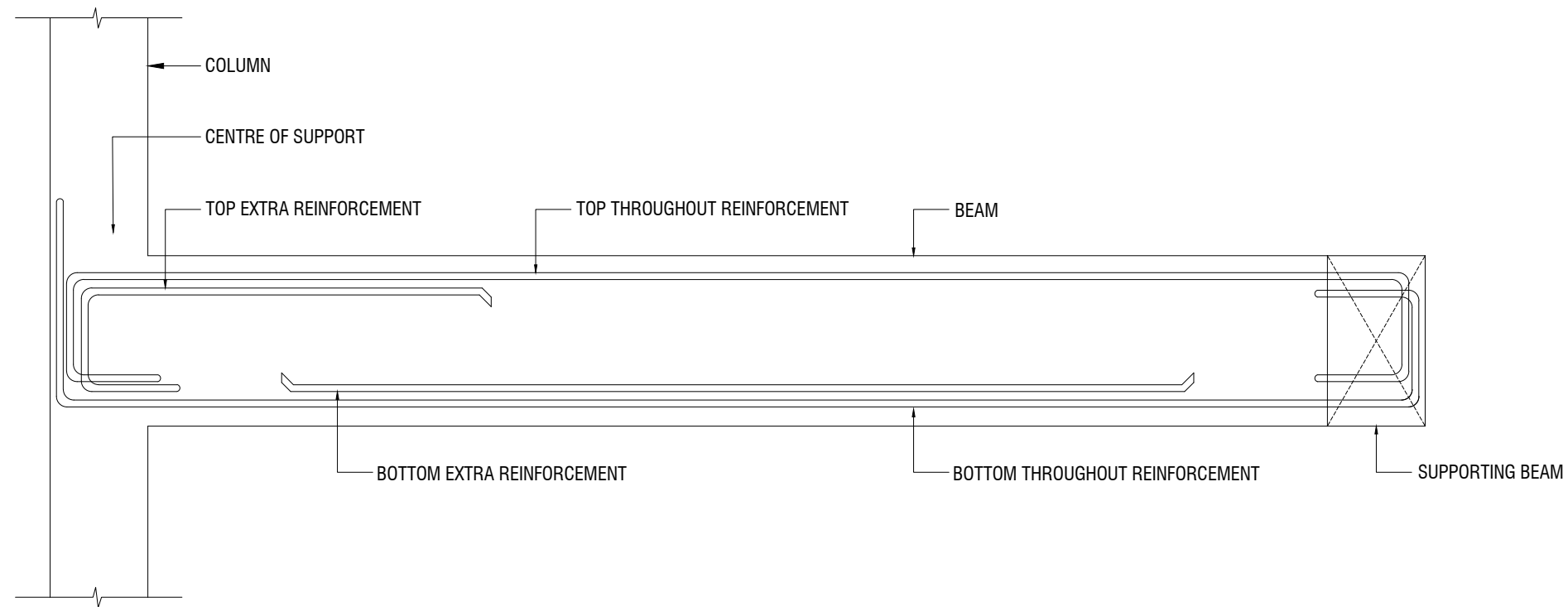
1. SEE 21.0 ON PRIMARY CODES AND SPECIFICATIONS.
2. MATERIALS:
- W-SHAPES & WT-SHAPES..... ASTM A992
 - S-SHAPES, M-SHAPES, HP-SHAPES..... ASTM A36
 - ST-SHAPES & MT-SHAPES..... ASTM A36
 - C-SHAPES & MC-SHAPES..... ASTM A36
 - ANGLES & PLATES..... ASTM A36
 - HSS SHAPES..... ASTM A500, GRADE B
 - STEEL PIPE..... ASTM A53 (TYPE E OR S), GRADE B
 - HIGH STRENGTH BOLTS..... ASTM A325
 - MACHINE BOLTS..... ASTM A307
 - ANCHOR RODS.....ASTM F1554, GRADE 55 TYPE S1(UNO)
 - WELDED HEADED STUDS..... ASTM A108
 - DEFORMED BAR ANCHORS..... ASTM A496
 - WELDING ELECTRODES..... AWS D1.1, E70 SERIES
3. NON-SHRINK, NON-METALLIC GROUT WITH A 28 DAY STRENGTH OF 35MPa SHALL BE USED UNDER BASE PLATES AND SHALL CONFORM TO BS EN 12390-3 AND EN 196-1. MASTERFLOW 542 OR EQUIVALENT MAYBE USED.

23.0 POST-INSTALLED ANCHORS

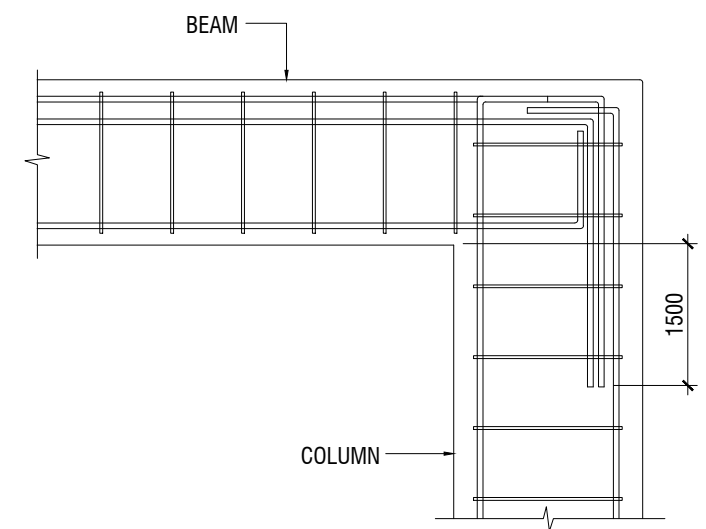
1. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. CONTRACTOR SHALL OBTAIN APPROVAL FROM ENGINEER OF RECORD (EOR) PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSINGS OR MISPLACED ANCHORS.
2. CARE SHALL BE GIVEN TO AVOID CONFLICTS WITH EXISTING REINFORCING WHEN DRILLING HOLES. HOLES SHALL BE DRILLED AND CLEANED PER THE MANUFACTURER'S INSTRUCTIONS. ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AT NOT LESS THAN MINIMUM EDGE DISTANCES AND/OR SPACINGS INDICATED IN THE MANUFACTURER'S LITERATURE.
3. SPECIAL INSPECTION SHALL BE PROVIDED FOR ALL ADHESIVE AND MECHANICAL ANCHOR INSTALLATIONS AS REQUIRED BY THE EOR. INDEPENDENT ON-SITE PROOF LOAD TESTING SHALL BE PERFORMED AS REQUIRED BY THE EOR. CONTACT EOR FOR NUMBER OF ANCHORS REQUIRED TO BE TESTED AND REQUIRED PROOF LOAD MAGNITUDE.



SIMPLIFIED DETAILING RULES FOR BEAMS (BS8110-1)

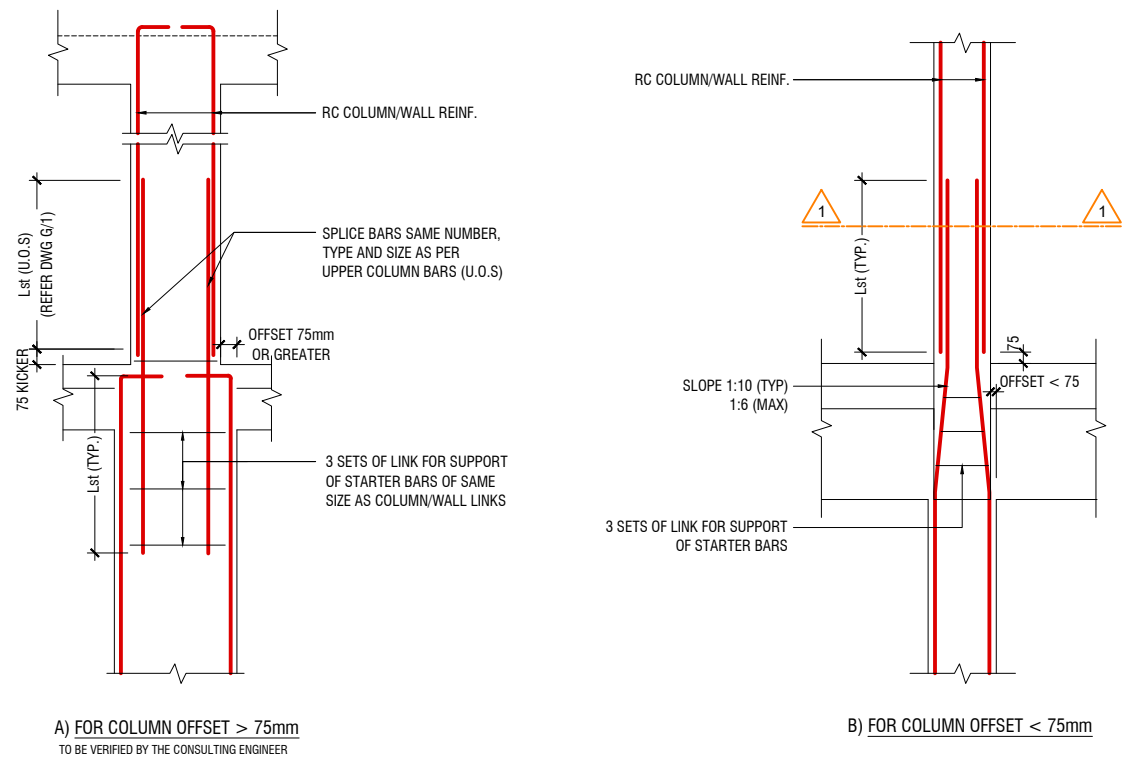


LONGITUDINAL SECTION OF TYPICAL SLAB BEAM SPANNING BETWEEN A COLUMN AND BEAM
SHOWING END SPAN MID SPAN REINFORCEMENT DETAILS

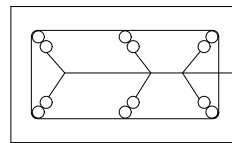


END COLUMN TO BEAM CONNECTION

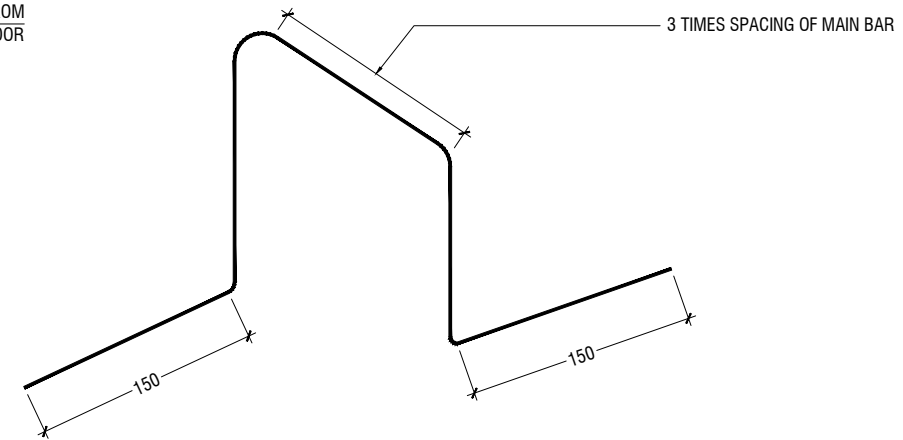
NOTE:
STANDARD DETAILS GIVEN HERE ALSO APPLIES TO FOUNDATION MEMBERS
OTHER DETAILS NOT FOUND HERE SHALL BE REFERRED TO IN RELEVANT BS
CODES OR SHALL BE APPROVED BY CLIENT'S ENGINEER



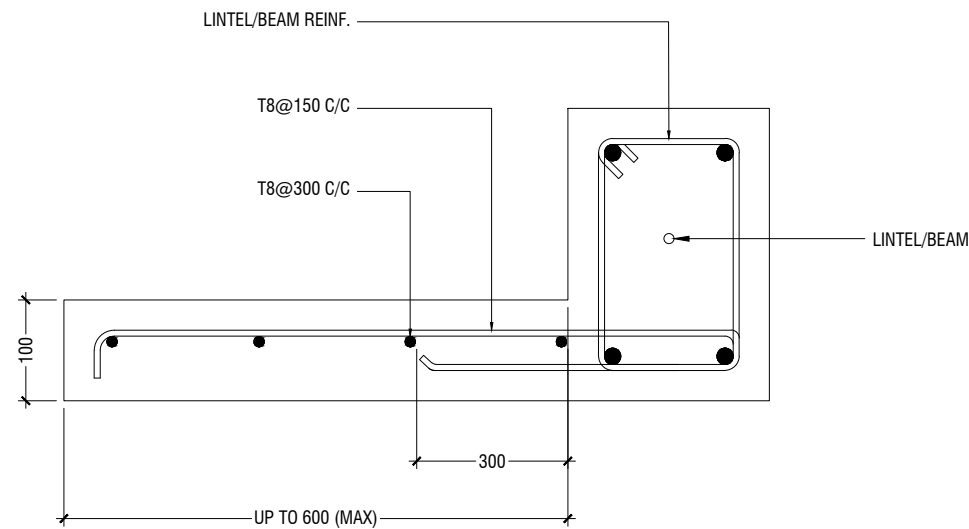
COLUMN/WALL REINF. LAPPING DETAIL AT FLOOR LEVEL



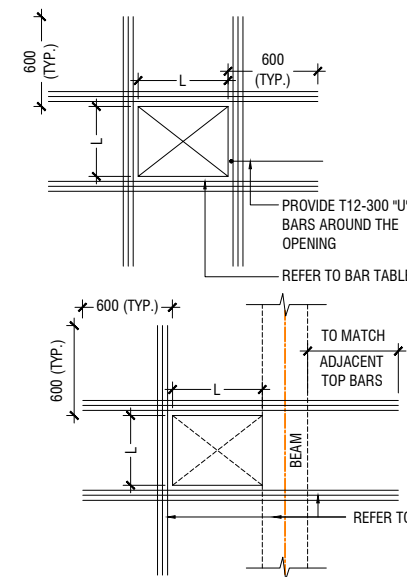
SECTION-1-1



TYPICAL CHAIR DETAIL



TYPICAL CANTILEVER DETAILS



| FLOOR OPENING (L) | ADD BARS |
|-------------------|------------|
| LESS THAN 250 | 3T12 T & B |
| L = > 250 < 500 | 3T16 T & B |
| L = ≥ 500 < 1000 | 3T16 T & B |

NOTE:-

1. FOR OPENINGS LESS THAN 200x200. SLAB REBARS TO BE ADJUSTED AROUND OPENING.
2. FOR OPENINGS GREATER THAN 250x250 TO BE APPROVED BY THE ENGINEER.
3. ALL SLAB OPENINGS LOCATION TO BE APPROVED BY THE ENGINEER.
4. EQUIVALENT OPENING AREA SHALL APPLY THE DETAILS SHOWN ABOVE.
5. EQUIVALENT OPENING AREA SHALL INCLUDE RECTANGLE, TRIANGLE AND ANY POLYGON SHAPE.
6. EXCEPT HACKING, NO SLAB CORING ARE ADVISABLE FOR POST-TENSIONED SLAB.

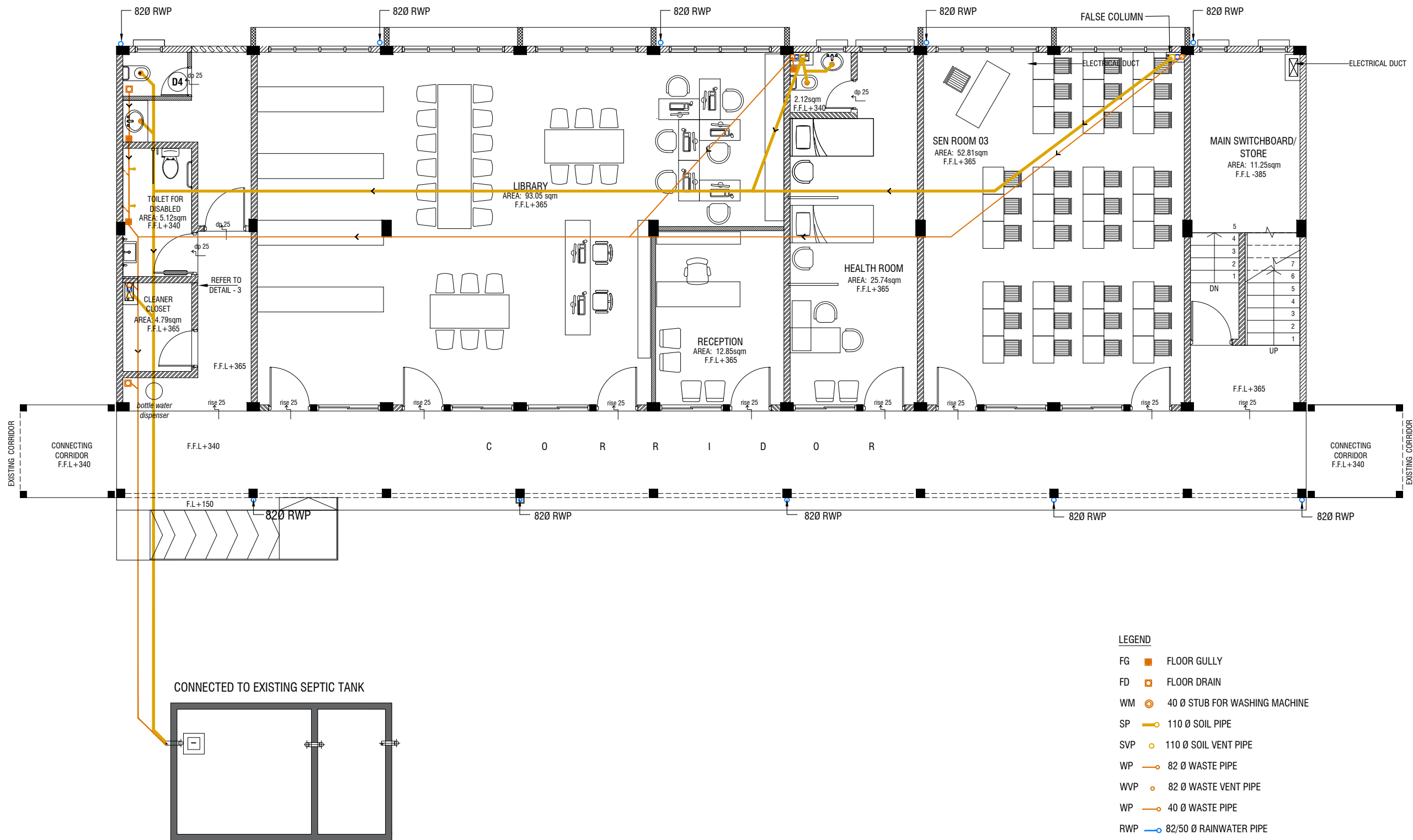
TYPICAL TRIMMER BARS DETAILS FOR OPENING IN SLABS

Proposed 04 Classroom at
N.Kendhikolhudhoo
(03 Storey)

SERVICES DRAWINGS
Client: Ministry of Education

TABLE OF CONTENTS

| DRAWING No. | TITLE | REVISION No. | DATE | REMARKS |
|-----------------|------------------------------|--------------|------|---------|
| S E R V I C E S | | --- | --- | --- |
| DR - 01 /04 | GROUND FLOOR DRAINAGE LAYOUT | --- | --- | --- |
| DR - 02 /04 | FIRST FLOOR DRAINAGE LAYOUT | --- | --- | --- |
| DR - 03 /04 | SECOND FLOOR DRAINAGE LAYOUT | --- | --- | --- |
| DR - 04 /04 | ROOF DRAINAGE LAYOUT | --- | --- | --- |
| PL - 01 / 03 | GROUND FLOOR PLUMBING LAYOUT | --- | --- | --- |
| PL - 02 / 03 | FIRST FLOOR PLUMBING LAYOUT | --- | --- | --- |
| PL - 03 / 03 | SECOND FLOOR PLUMBING LAYOUT | --- | --- | --- |
| EL - 01 / 03 | GROUND FLOOR LIGHTING LAYOUT | --- | --- | --- |
| EL - 02 / 03 | FIRST FLOOR LIGHTING LAYOUT | --- | --- | --- |
| EL - 03 / 03 | SECOND FLOOR LIGHTING LAYOUT | --- | --- | --- |
| EP - 01 / 03 | GROUND FLOOR POWER LAYOUT | --- | --- | --- |
| EP - 02 / 03 | FIRST FLOOR POWER LAYOUT | --- | --- | --- |
| EP - 03 / 03 | SECOND FLOOR POWER LAYOUT | | | |
| FDP - 01 / 03 | GROUND FLOOR FDP LAYOUT | | | |
| FDP - 02 / 03 | FIRST FLOOR FDP LAYOUT | | | |
| FDP - 03 / 03 | SECOND FLOOR FDP LAYOUT | | | |
| ACV - 01 / 03 | GROUND FLOOR ACV LAYOUT | | | |
| ACV - 02 / 03 | FIRST FLOOR ACV LAYOUT | | | |
| ACV - 03 / 03 | SECOND FLOOR ACV LAYOUT | | | |
| | | | | |
| | | | | |



GROUND FLOOR DRAINAGE LAYOUT

SCALE 1:100

LEGEND

- FG FLOOR GULLY
- FD FLOOR DRAIN
- WM 40 Ø STUB FOR WASHING MACHINE
- SP 110 Ø SOIL PIPE
- SVP 110 Ø SOIL VENT PIPE
- WP 82 Ø WASTE PIPE
- WVP 82 Ø WASTE VENT PIPE
- WP 40 Ø WASTE PIPE
- RWP 82/50 Ø RAINWATER PIPE
- RWO 82/50 Ø DRAIN OUTLET
- CD 25 Ø DRAIN PIPE
- MHVP 50 Ø MANHOLE VENT PIPE

NOTE:
- ALL RAINWATER PIPES TO BE AT GROUND LEVEL DISCHARGED THROUGH A PERFORATED COWL OR TO A SOAK PIT
- ALL SOIL AND WASTE PIPES TO BE AT GROUND LEVEL, UNDER THE SLAB.
- ALL RAINWATER PIPES TO BE BOXED FROM OUTSIDE (COVER)
- PROVIDE ANIMAL GUARDS FOR ALL RAINWATER DRAINAGE PIPES (END CAP)

PHYSICAL FACILITIES DEVELOPMENT
SECTION
MINISTRY OF EDUCATION,
MALE,
REPUBLIC OF MALDIVES

PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

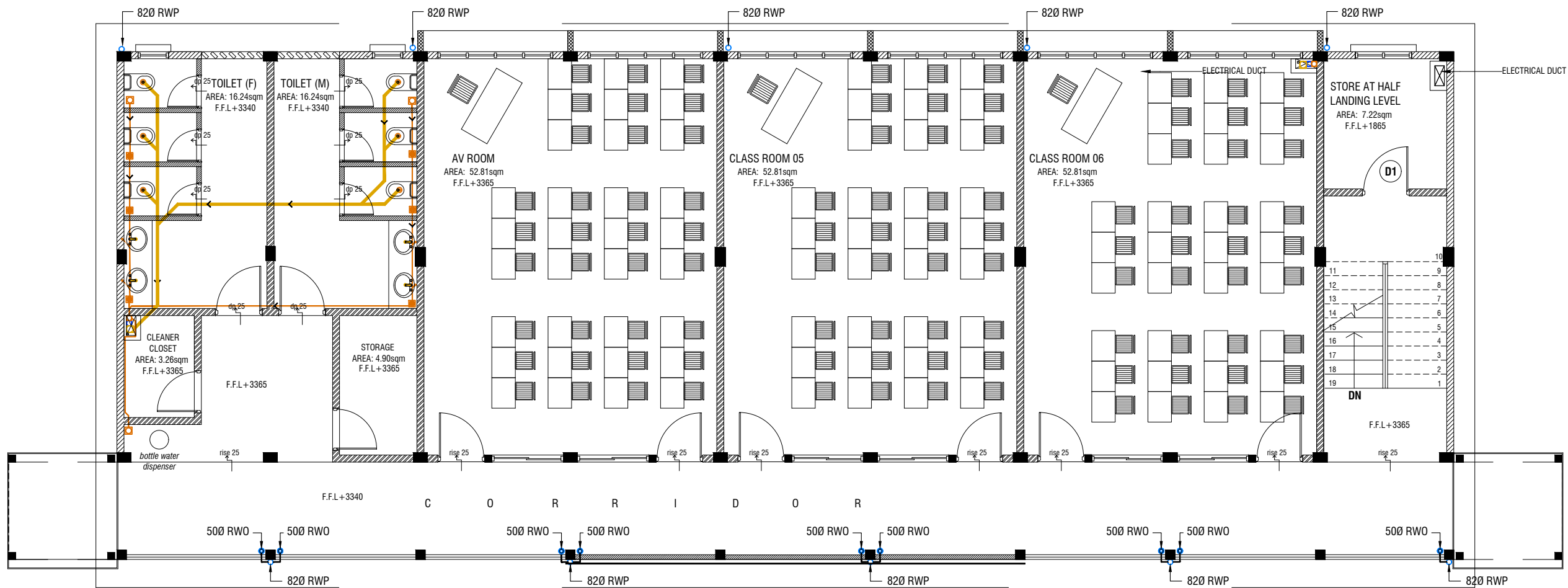
SCALE : AS GIVEN

DATE : 22.05.2022

AMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |

DWG NO : DR - 01/ 04



FIRST FLOOR DRAINAGE LAYOUT

SCALE 1:100

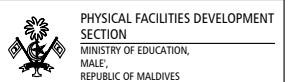


LEGEND

- FG FLOOR GULLY
- FD FLOOR DRAIN
- WM 40 Ø STUB FOR WASHING MACHINE
- SP 110 Ø SOIL PIPE
- SVP 110 Ø SOIL VENT PIPE
- WP 82 Ø WASTE PIPE
- WVP 82 Ø WASTE VENT PIPE
- WP 40 Ø WASTE PIPE
- RWP 82/50 Ø RAINWATER PIPE
- RWO 82/50 Ø DRAIN OUTLET
- CD 25 Ø DRAIN PIPE
- MHVP 50 Ø MANHOLE VENT PIPE

NOTE:

- ALL SOIL AND WASTE PIPES TO BE UNDER THE SLAB LEVEL.



PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

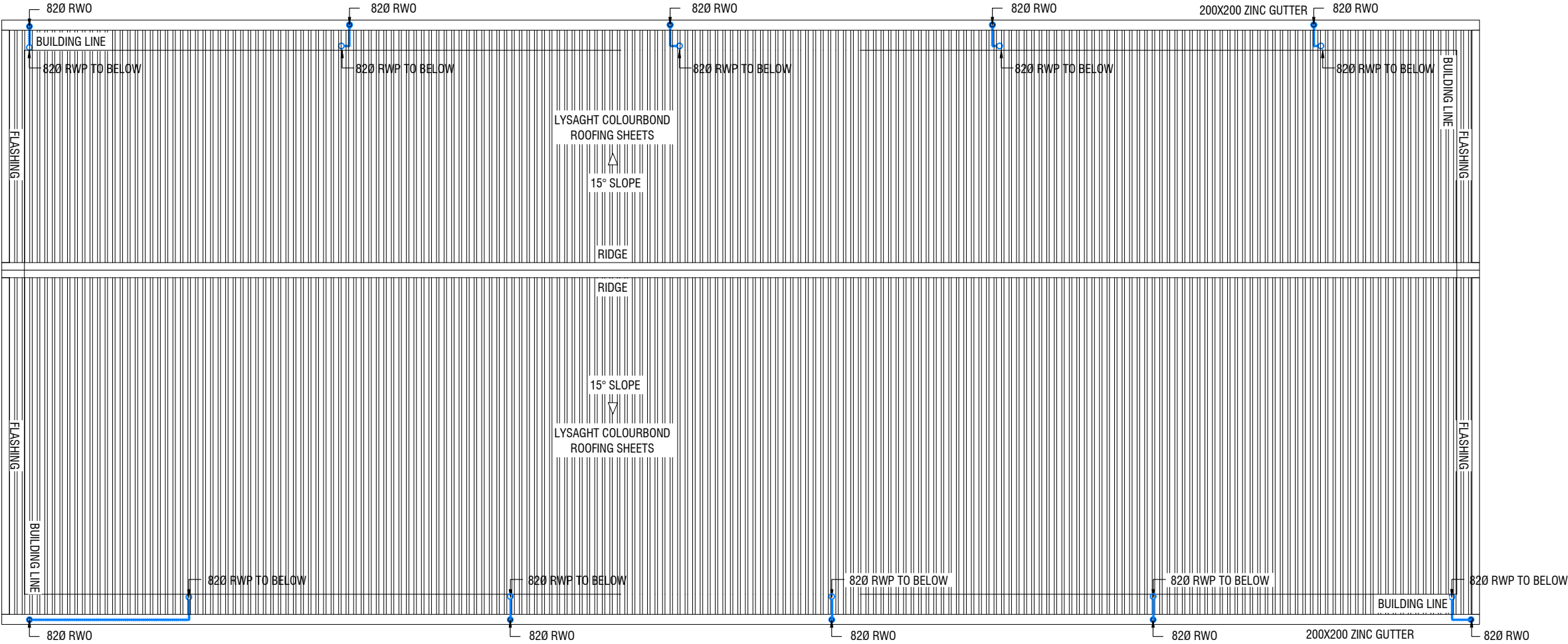
SCALE : AS GIVEN

DATE : 22.05.2022

AMENDMENTS


| Issue | Date | Description |
|-------|------|-------------|
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| | | |
| | | |

DWG NO : DR - 02/ 04



ROOF DRAINAGE LAYOUT
SCALE 1:100

- LEGEND**
- FG ■ FLOOR GULLY
 - FD ■ FLOOR DRAIN
 - WM ● 40 Ø STUB FOR WASHING MACHINE
 - SP — 110 Ø SOIL PIPE
 - SVP ○ 110 Ø SOIL VENT PIPE
 - WP — 82 Ø WASTE PIPE
 - WVP ○ 82 Ø WASTE VENT PIPE
 - WP — 40 Ø WASTE PIPE
 - RWP — 82/50 Ø RAINWATER PIPE
 - RWO ● 82/50 Ø DRAIN OUTLET
 - CD — 25 Ø DRAIN PIPE



PHYSICAL FACILITIES DEVELOPMENT
SECTION
MINISTRY OF EDUCATION,
MALE,
REPUBLIC OF MALDIVES

PROJECT : **03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)**

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

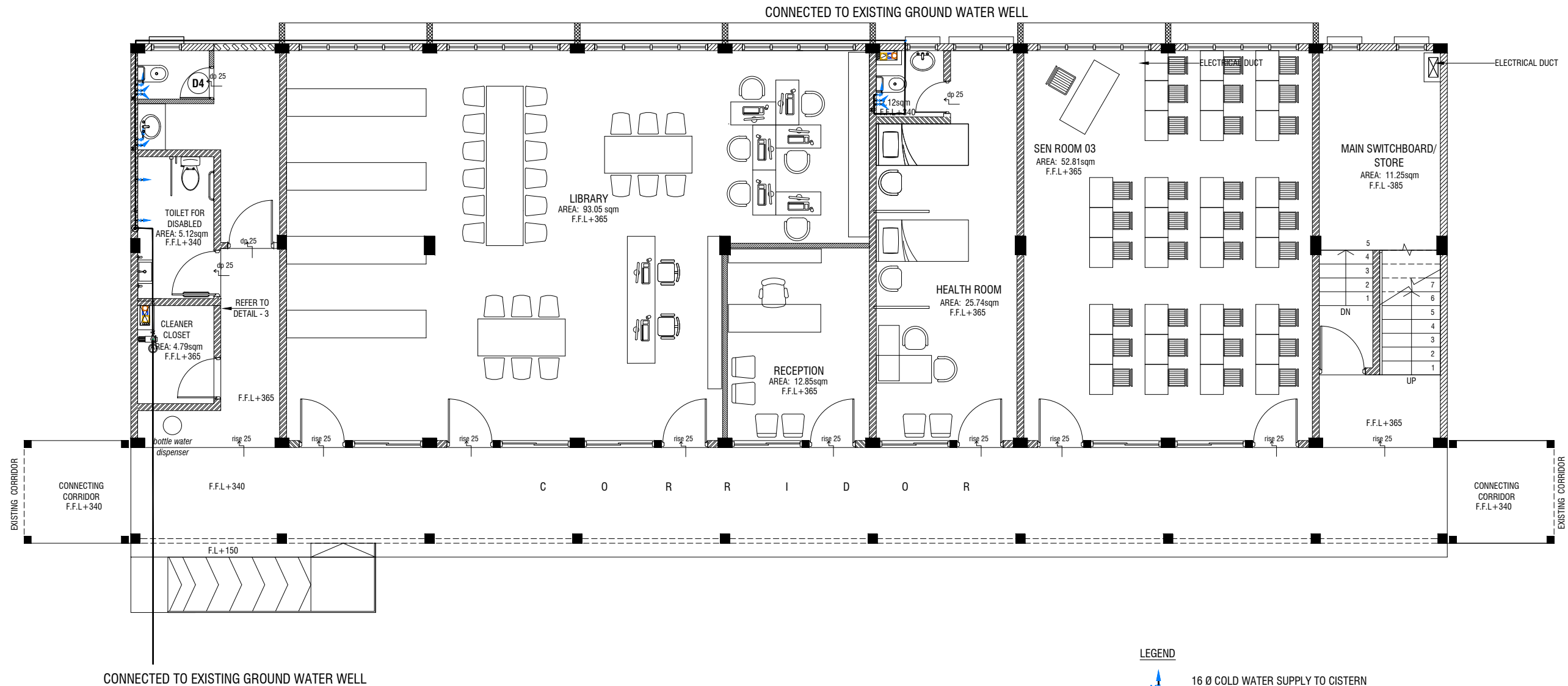
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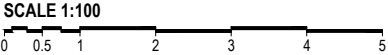
AMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |

DWG NO : **DR - 04/ 04**



GROUND FLOOR PLUMBING LAYOUT



LEGEND

- 16 Ø COLD WATER SUPPLY TO CISTERN
- 16 Ø COLD WATER SUPPLY TO BIDET SHOWER
- 16 Ø COLD WATER SUPPLY TO BASIN FAUCET / SINK
- 16 Ø COLD WATER SUPPLY TO WATER TAP
- GATE VALVE
- 25 Ø COLD WATER SUPPLY PIPES RUN UNDERGROUND
- 25 Ø COLD WATER SUPPLY PIPES RUN IN WALL / UNDER FALSE CEILING
- RISE IN WALL
- DROP IN WALL
- CWS** COLD WATER SUPPLY
- HWS** HOT WATER SUPPLY
- GROUND WATER SUPPLY

NOTE:
- THE WELL SHALL BE RELOCATED ACCORDING TO THE SALINITY OF THE GROUND WATER.
- BASED ON WELL LOCATION PUMP CAPACITY TO BE DECIDED

PHYSICAL FACILITIES DEVELOPMENT
SECTION
MINISTRY OF EDUCATION,
MALE,
REPUBLIC OF MALDIVES

PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

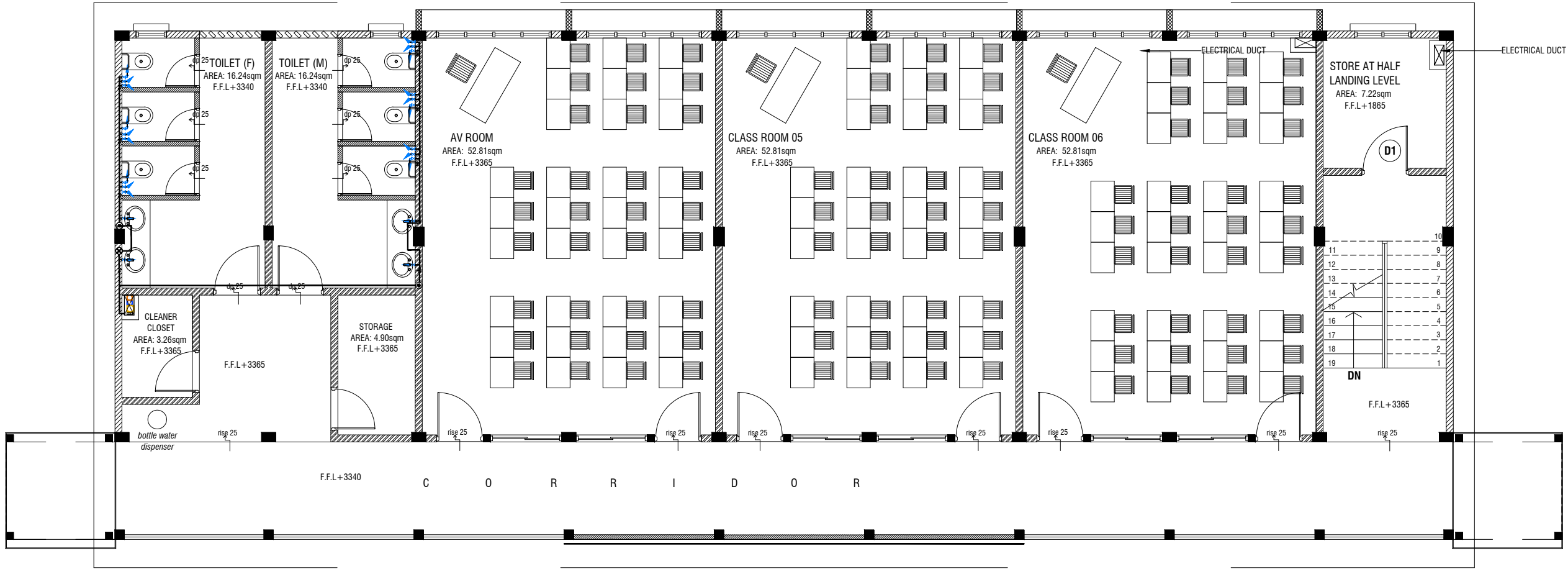
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DATE : 22.05.2022

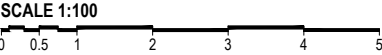
AMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |

DWG NO : PL - 01 / 03



FIRST FLOOR PLUMBING LAYOUT



- LEGEND
- 16 Ø COLD WATER SUPPLY TO CISTERN
 - 16 Ø COLD WATER SUPPLY TO BIDET SHOWER
 - 16 Ø COLD WATER SUPPLY TO BASIN FAUCET / SINK
 - 16 Ø COLD WATER SUPPLY TO WATER TAP
 - GV GATE VALVE
 - 25 Ø COLD WATER SUPPLY PIPES RUN UNDERGROUND
 - 25 Ø COLD WATER SUPPLY PIPES RUN IN WALL / UNDER FALSE CEILING
 - RISE IN WALL
 - DROP IN WALL
 - CWS COLD WATER SUPPLY
 - HWS HOT WATER SUPPLY
 - GROUND WATER SUPPLY

NOTE:

- THE WELL SHALL BE RELOCATED ACCORDING TO THE SALINITY OF THE GROUND WATER.
- BASED ON WELL LOCATION PUMP CAPACITY TO BE DECIDED

PHYSICAL FACILITIES DEVELOPMENT
SECTION
MINISTRY OF EDUCATION,
MALE,
REPUBLIC OF MALDIVES

PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

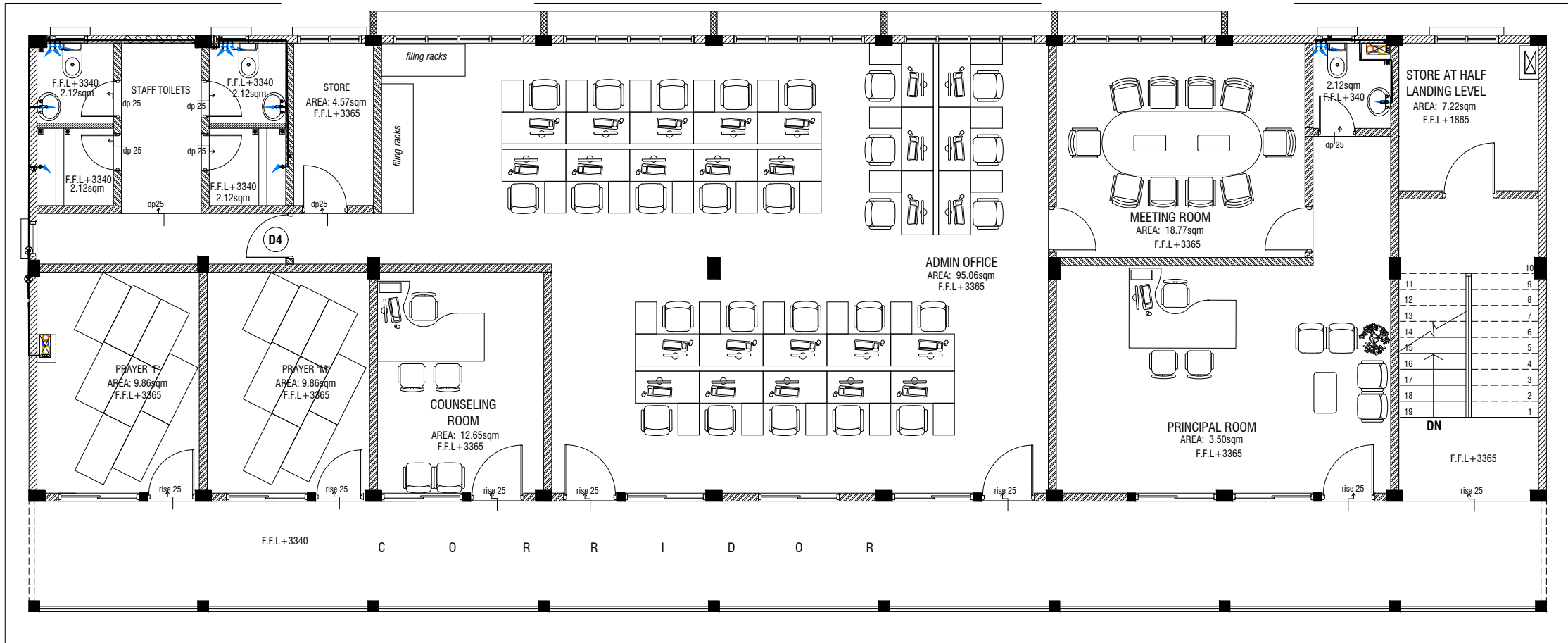
SCALE : AS GIVEN

DATE : 22.05.2022

AMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |

DWG NO : PL - 02 / 03



SECOND FLOOR PLUMBING LAYOUT

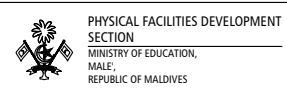
SCALE 1:100



LEGEND

- 16 Ø COLD WATER SUPPLY TO CISTERN
- 16 Ø COLD WATER SUPPLY TO BIDET SHOWER
- 16 Ø COLD WATER SUPPLY TO BASIN FAUCET / SINK
- 16 Ø COLD WATER SUPPLY TO WATER TAP
- GV GATE VALVE
- 25 Ø COLD WATER SUPPLY PIPES RUN UNDERGROUND
- 25 Ø COLD WATER SUPPLY PIPES RUN IN WALL / UNDER FALSE CEILING
- RISE IN WALL
- DROP IN WALL
- CWS COLD WATER SUPPLY
- HWS HOT WATER SUPPLY
- GROUND WATER SUPPLY

NOTE:
- THE WELL SHALL BE RELOCATED ACCORDING TO THE SALINITY OF THE GROUND WATER.
- BASED ON WELL LOCATION PUMP CAPACITY TO BE DECIDED



PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

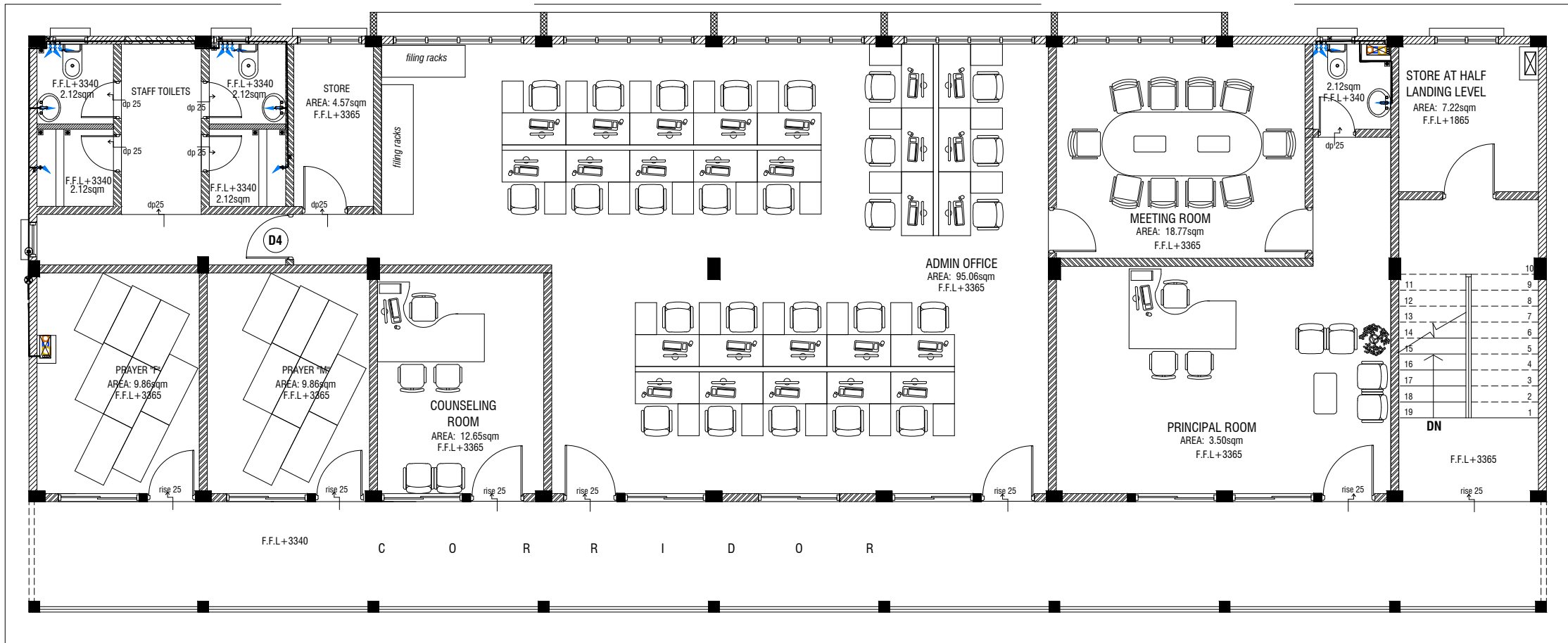
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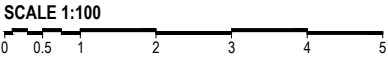
AMENDMENTS

| Issue | Date | Description |
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DWG NO : PL - 03 / 03



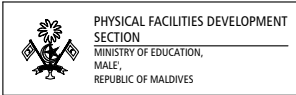
SECOND FLOOR PLUMBING LAYOUT



LEGEND

- 16 Ø COLD WATER SUPPLY TO CISTERN
- 16 Ø COLD WATER SUPPLY TO BIDET SHOWER
- 16 Ø COLD WATER SUPPLY TO BASIN FAUCET / SINK
- 16 Ø COLD WATER SUPPLY TO WATER TAP
- GV GATE VALVE
- 25 Ø COLD WATER SUPPLY PIPES RUN UNDERGROUND
- 25 Ø COLD WATER SUPPLY PIPES RUN IN WALL / UNDER FALSE CEILING
- RISE IN WALL
- DROP IN WALL
- CWS COLD WATER SUPPLY
- HWS HOT WATER SUPPLY
- GROUND WATER SUPPLY

NOTE:
- THE WELL SHALL BE RELOCATED ACCORDING TO THE SALINITY OF THE GROUND WATER.
- BASED ON WELL LOCATION PUMP CAPACITY TO BE DECIDED



PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

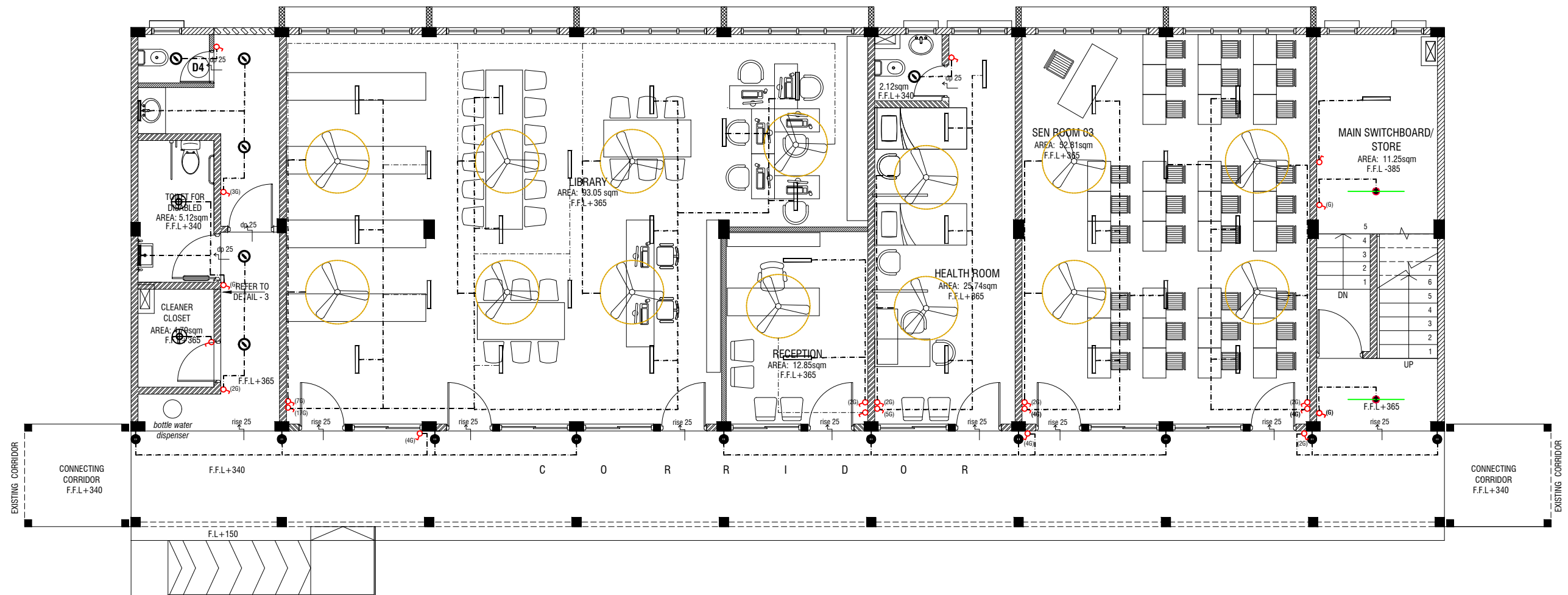
CHECKED : MOE

SCALE : AS GIVEN

DATE : 22.05.2022

| AMENDMENTS | | |
|------------|------|-------------|
| Issue | Date | Description |
| | | |

DWG NO : PL - 03 / 03



GROUND FLOOR LIGHTING LAYOUT

SCALE 1:100



LEGEND

- WPD 40W (IP 65) OUT DOOR WALL LIGHT
- ML MIRROR LIGHT (7W LED LIGHT)
- H2 LED RECESSED DOWN LIGHT 12W
- CL LED CEILING LIGHT 18W
- WP LED TUBE LIGHT WITH WEATHER PROOF OPAL CASING
- C2 LED CEILING DOWN LIGHT (18W)
- LIGHT SWITCH
- SWITCHING LINE
- EXHAUST FAN (CEILING MOUNTED)
- FLEX OUTLET

CL2 LED TUBE LIGHT WITH OPAL CASING



NOTE:

- ALL WIRING TO BE OF STELCO APPROVED STANDARDS
- SWITCH CONTROL = 1200MM FROM FLOOR FIN. LEVEL
- ALL LIGHTING POINTS CONNECTED TO THEIR RESPECTIVE DB
- POLYCARBONATE ENCLOSURE TO ALL SWITCH AND SOCKET WHICH ARE LOCATED AT THE OUTDOORS



PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

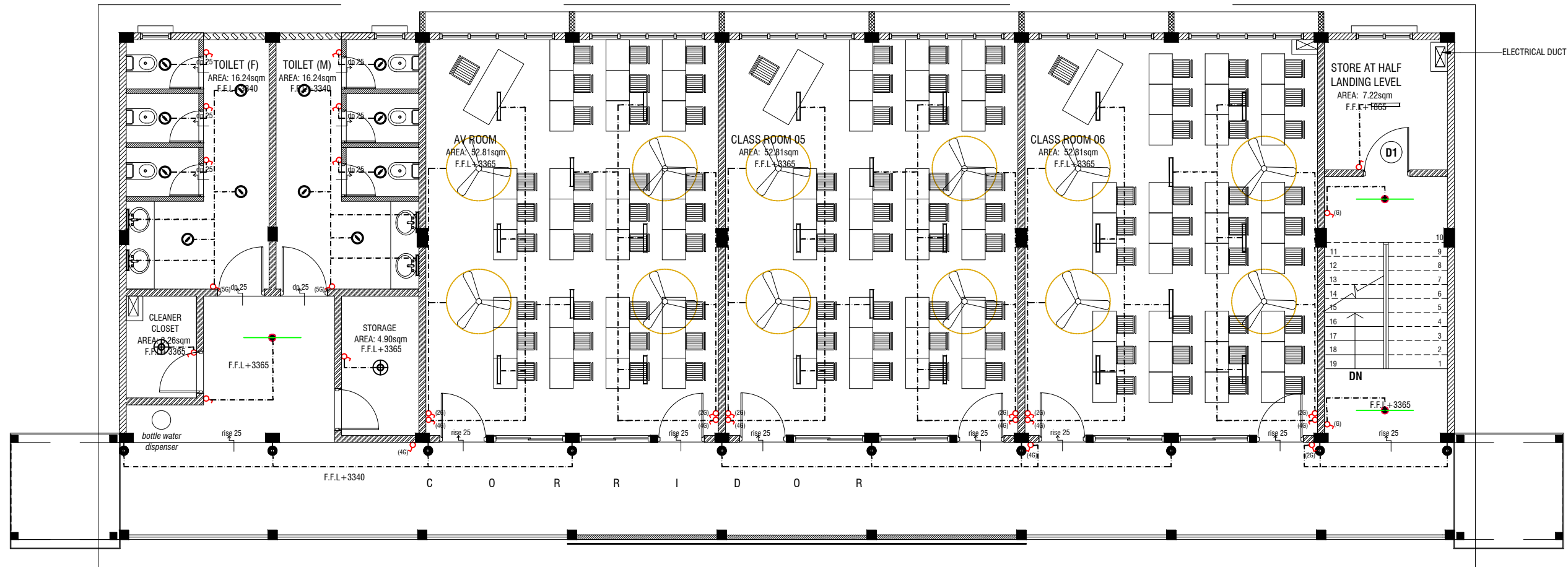
SCALE : AS GIVEN

DATE : 22.05.2022

AMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |

DWG NO : EL - 01 / 03



FIRST & SECOND FLOOR LIGHTING LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

LEGEND

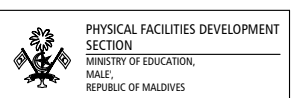
- WPD 40W (IP 65) OUT DOOR WALL LIGHT
- ML MIRROR LIGHT (7W LED LIGHT)
- H2 LED RECESSED DOWN LIGHT 12W
- CL LED CEILING LIGHT 18W
- WP LED TUBE LIGHT WITH WEATHER PROOF OPAL CASING
- C2 LED CEILING DOWN LIGHT (18W)
- LIGHT SWITCH
- SWITCHING LINE
- FLEX OUTLET

CL2 LED TUBE LIGHT WITH OPAL CASING



NOTE:

- ALL WIRING TO BE OF STELCO APPROVED STANDARDS
- SWITCH CONTROL = 1200MM FROM FLOOR FIN. LEVEL
- ALL LIGHTING POINTS CONNECTED TO THEIR RESPECTIVE DB
- POLYCARBONATE ENCLOSURE TO ALL SWITCH AND SOCKET WHICH ARE LOCATED AT THE OUTDOORS



PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

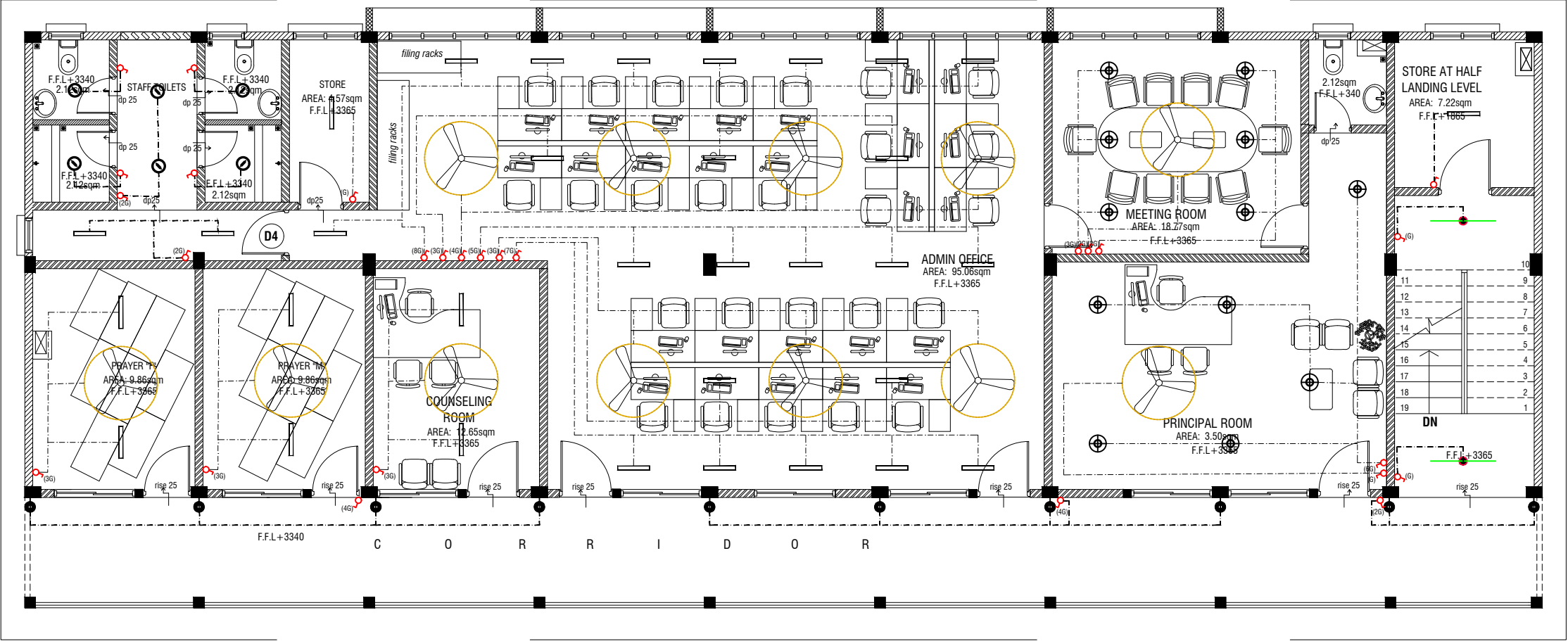
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DATE : 22.05.2022

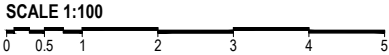
AMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |

DWG NO : EL - 02 / 03



FIRST & SECOND FLOOR LIGHTING LAYOUT



LEGEND


- WPD 40W (IP 65) OUT DOOR WALL LIGHT
- ML MIRROR LIGHT (7W LED LIGHT)
- H2 LED RECESSED DOWN LIGHT 12W
- CL LED CEILING LIGHT 18W
- WP LED TUBE LIGHT WITH WEATHER PROOF OPAL CASING
- C2 LED CEILING DOWN LIGHT (18W)
- Light Switch
- Switching Line
- Flex Outlet

CL2 LED TUBE LIGHT WITH OPAL CASING



NOTE:

- ALL WIRING TO BE OF STELCO APPROVED STANDARDS
- SWITCH CONTROL = 1200MM FROM FLOOR FIN. LEVEL
- ALL LIGHTING POINTS CONNECTED TO THEIR RESPECTIVE DB
- POLYCARBONATE ENCLOSURE TO ALL SWITCH AND SOCKET WHICH ARE LOCATED AT THE OUTDOORS



PHYSICAL FACILITIES DEVELOPMENT
SECTION
MINISTRY OF EDUCATION,
MALE,
REPUBLIC OF MALDIVES

PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

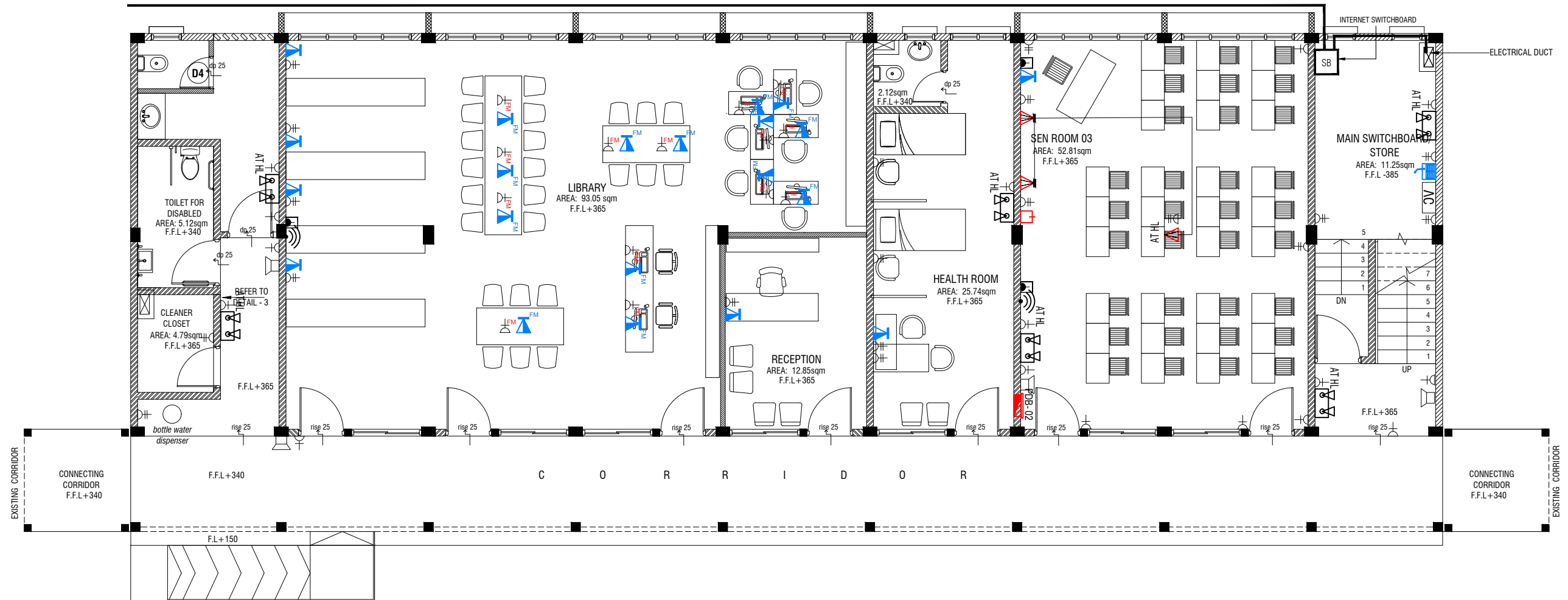
SCALE : AS GIVEN

DATE : 22.05.2022

| AMENDMENTS | | |
|------------|------|-------------|
| Issue | Date | Description |
| | | |

DWG NO: EL - 03 / 03

PVC DUCT FOR DATA CABLE LEAD IN BELOW GR.SLAB



GROUND FLOOR POWER LAYOUT

SCALE 1:100



NOTE:

1. ALL WIRING TO BE OF APPROVED STANDARDS
2. POWER/IT/COMPUTER SOCKETS = 300MM - 450MM FROM FLOOR FIN. LEVEL
3. SWITCH CONTROL / SOCKET = 1100MM - 1200MM FROM FLOOR FIN. LEVEL
4. KITCHEN SOCKETS / PANTRY SOCKETS = 1150MM - 1250MM FROM FLOOR FIN. LEVEL
5. AC = 2500MM - 2700MM FROM FLOOR FIN. LEVEL

LEGEND

- TELEPHONE OUTLET (RJ11, CONNECTOR)
- 13A POWER OUTLET
- 13A TWIN SOCKET OUTLET
- HDMI,VGA & RAC AV SOCKET
- DISTRIBUTION BOX
- SPEAKERS
- HDMI,VGA & RAC AV TWIN SOCKET
- TWIN COMPUTER NETWORK OUTLET
- DATA POINT
- TWO GANG / TV SOCKET

PROVISION FOR SINGLE SPLIT 20,000 BTU / HR

FLOOR MOUNT 13A POWER OUTLET

FLOOR MOUNT TWIN COMPUTER NETWORK OUTLET

PAGING MIC

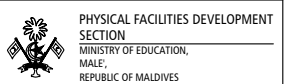
VOLUME CONTROLLER

EMERGENCY LIGHT

ALL ELECTRICAL COMPONENT TO BE CONNECTED TO THEIR RESPECTIVE DB

SPEAKERS TO BE CONNECTED TO THE MAIN PA SYSTEM OF THE SCHOOL

TO SUPPLY AND INSTALL PANEL BOARD WITH KWh METER. WIRING AND CONNECTION TO MAIN PANEL BOARD FROM MAIN ELECTRICAL NETWORK (LOCATED AT MAIN SWITCH BOARD / STORE)



PHYSICAL FACILITIES DEVELOPMENT
SECTION
MINISTRY OF EDUCATION,
MALE,
REPUBLIC OF MALDIVES

PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

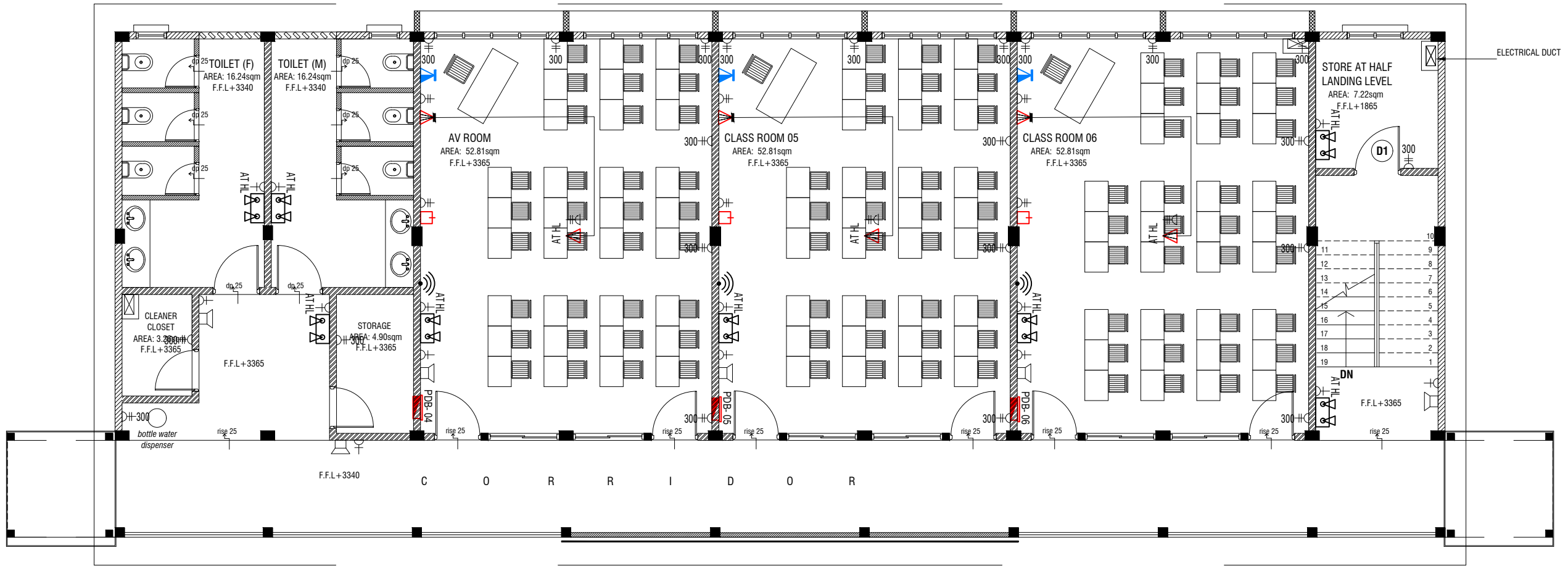
SCALE : AS GIVEN

DATE : 22.05.2022

AMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |

DWG NO : EP - 01/03



FIRST FLOOR POWER LAYOUT



NOTE:

- 1. ALL WIRING TO BE OF APPROVED STANDARDS
- 2. POWER/IT/COMPUTER SOCKETS = 300MM - 450MM FROM FLOOR FIN. LEVEL
- 3. SWITCH CONTROL / SOCKET = 1100MM - 1200MM FROM FLOOR FIN. LEVEL
- 4. KITCHEN SOCKETS / PANTRY SOCKETS = 1150MM - 1250MM FROM FLOOR FIN. LEVEL
- 5. AC = 2500MM - 2700MM FROM FLOOR FIN. LEVEL

LEGEND

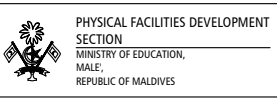
- TELEPHONE OUTLET (RJ11, CONNECTOR)
- 13A POWER OUTLET
- 13A TWIN SOCKET OUTLET
- HDMI,VGA & RAC AV SOCKET
- DISTRIBUTION BOX
- SPEAKERS
- HDMI,VGA & RAC AV TWIN SOCKET
- TWIN COMPUTER NETWORK OUTLET
- DATA POINT
- TWO GANG / TV SOCKET
- PROVISION FOR SINGLE SPLIT 20,000 BTU / HR

- PAGING MIC
- VOLUME CONTROLLER
- EMERGENCY LIGHT

ALL ELECTRICAL COMPONENT TO BE CONNECTED TO THEIR RESPECTIVE DB

SPEAKERS TO BE CONNECTED TO THE MAIN PA SYSTEM OF THE SCHOOL

TO SUPPLY AND INSTALL. PANEL BOARD WITH KWh METER. WIRING AND CONNECTION TO MAIN PANEL BOARD FROM MAIN ELECTRICAL NETWORK (LOCATED AT MAIN SWITCH BOARD / STORE)



PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :
ARCHITECT : MOE
ENGINEER : MOE
DRAWN : MOE
CHECKED : MOE

SCALE : AS GIVEN
DATE : 22.05.2022

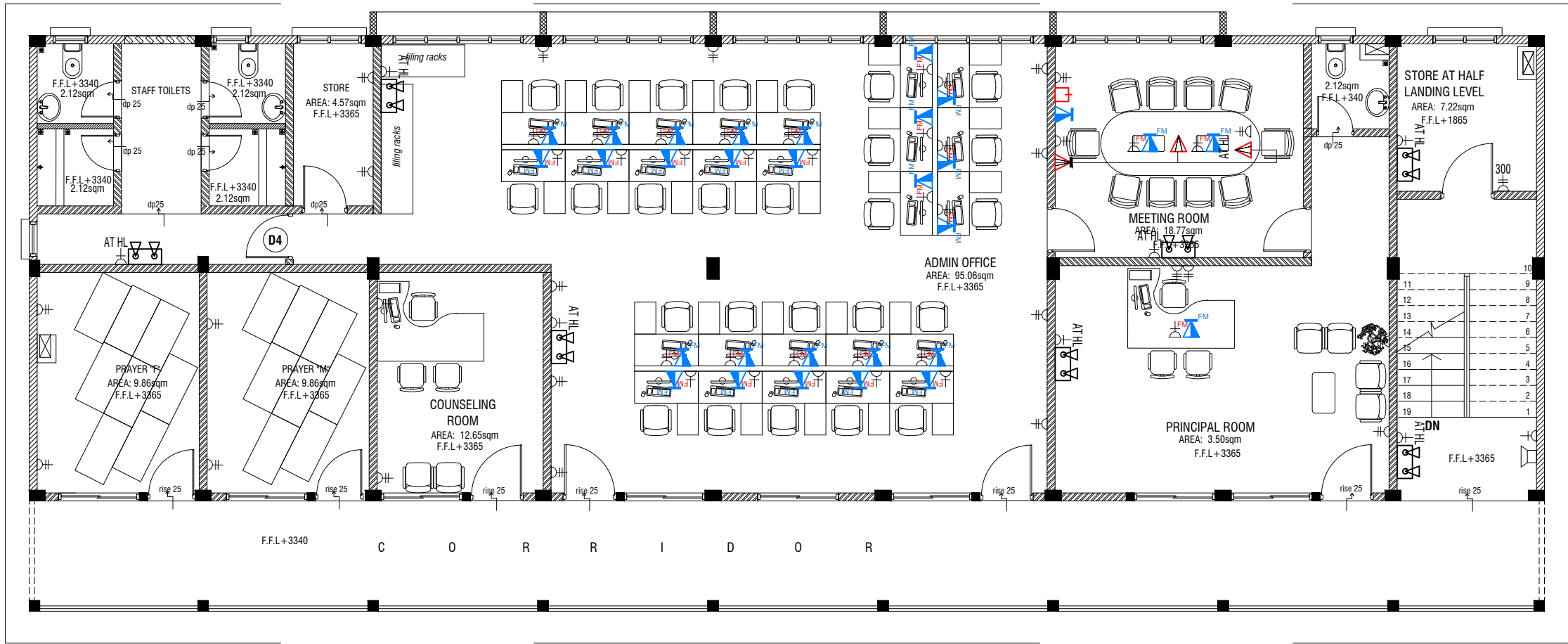
AMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |

DWG NO : EP - 02 / 03

SECOND FLOOR POWER LAYOUT

SCALE 1:100



NOTE:

1. ALL WIRING TO BE OF APPROVED STANDARDS
2. POWER/IT/COMPUTER SOCKETS = 300MM - 450MM FROM FLOOR FIN. LEVEL
3. SWITCH CONTROL / SOCKET = 1100MM - 1200MM FROM FLOOR FIN. LEVEL
4. KITCHEN SOCKETS / PANTRY SOCKETS = 1150MM - 1250MM FROM FLOOR FIN. LEVEL
5. AC = 2500MM - 2700MM FROM FLOOR FIN. LEVEL

LEGEND

▲ TELEPHONE OUTLET (RJ11, CONNECTOR)

⏏ 13A POWER OUTLET

⏏ 13A TWIN SOCKET OUTLET

▲ HDMI,VGA & RAC AV SOCKET

■ DISTRIBUTION BOX

🔊 SPEAKERS

▲ HDMI,VGA & RAC AV TWIN SOCKET

▲ TWIN COMPUTER NETWORK OUTLET

• DATA POINT

□ TWO GANG / TV SOCKET

■ PROVISION FOR SINGLE SPLIT 20,000 BTU / HR

🔊 PAGING MIC

VC VOLUME CONTROLLER

EM 🚨 EMERGENCY LIGHT

ALL ELECTRICAL COMPONENT TO BE CONNECTED TO THEIR RESPECTIVE DB

SPEAKERS TO BE CONNECTED TO THE MAIN PA SYSTEM OF THE SCHOOL

TO SUPPLY AND INSTALL PANEL BOARD WITH kWh METER. WIRING AND CONNECTION TO MAIN PANEL BOARD FROM MAIN ELECTRICAL NETWORK (LOCATED AT MAIN SWITCH BOARD / STORE)



PROJECT : **03 CLASSROOM BLOCK**
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

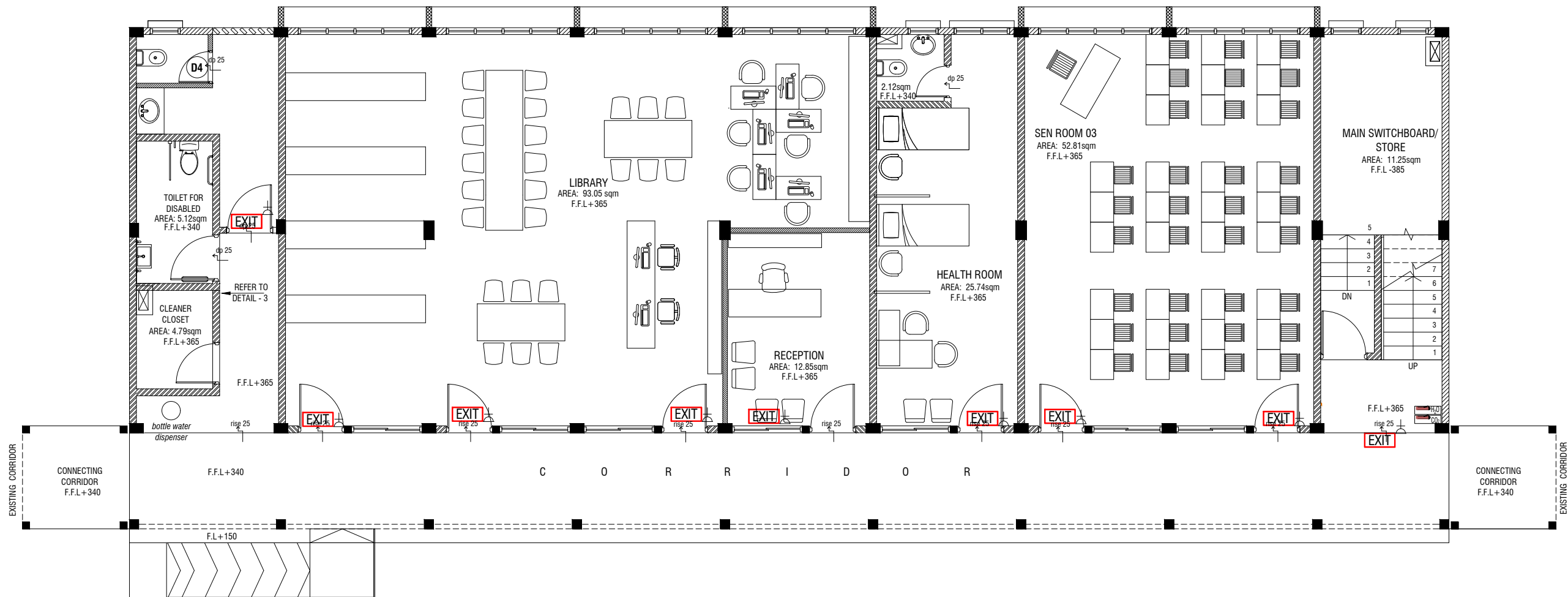
SCALE : AS GIVEN

DATE : 22.05.2022

AMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |
| | | |

DWG NO : **EP - 03/ 03**



GROUND FLOOR FDP LAYOUT
SCALE 1:100

LEGEND


- EXIT SIGN
- CO₂ EXTINGUISHER (LOAD: 2KG) IN POLYCARBONATE ENCLOSURE(TYP.)
- H₂O EXTINGUISHER (LOAD: 9L) IN POLYCARBONATE ENCLOSURE(TYP.)

ALL FIRE CABLES AND CONDUITS SHOULD BE FIRE RETARDANT LOW SMOKE (FRLS) TYPE.

ALL FIRE RATED DOOR SHOULD COME WITH PACKING (EXPANSION SEAL TRAP)

- 1.ALL PIPES SHOULD BE GALVANIZED,SCHEDULE 40.
- 2. ALL PIPE SHALL BE PAINTED IN RED AS PER REGULATION.
- 3. ALL SUPPORT/BRACKET SHALL BE HOT DIPPED GALVANIZED TO 100MM
- 4.ALL FIRE EXTINGUISHER INSIDE CABINETS. (CABINET SHOULD BE PROVIDED)

-IF THE INSTALLATION OF CEILING IS CARRIED OUT LOWER THAN BEAM BOTTOM ,SMOKE DETECTORS SHOULD BE PLACED AS INDICATED ON THE DRAWING.
-ALTERNATIVELY IF THE INSTALLATION OF CEILING IS CARRIED OUT EQUAL TO BEAM BOTTOM OR IF THE CEILING IS NOT INSTALLED , SMOKE DETECTORS ARE TO BE PLACED IN BETWEEN EACH BEAM



PHYSICAL FACILITIES DEVELOPMENT
SECTION
MINISTRY OF EDUCATION,
MALE,
REPUBLIC OF MALDIVES

PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

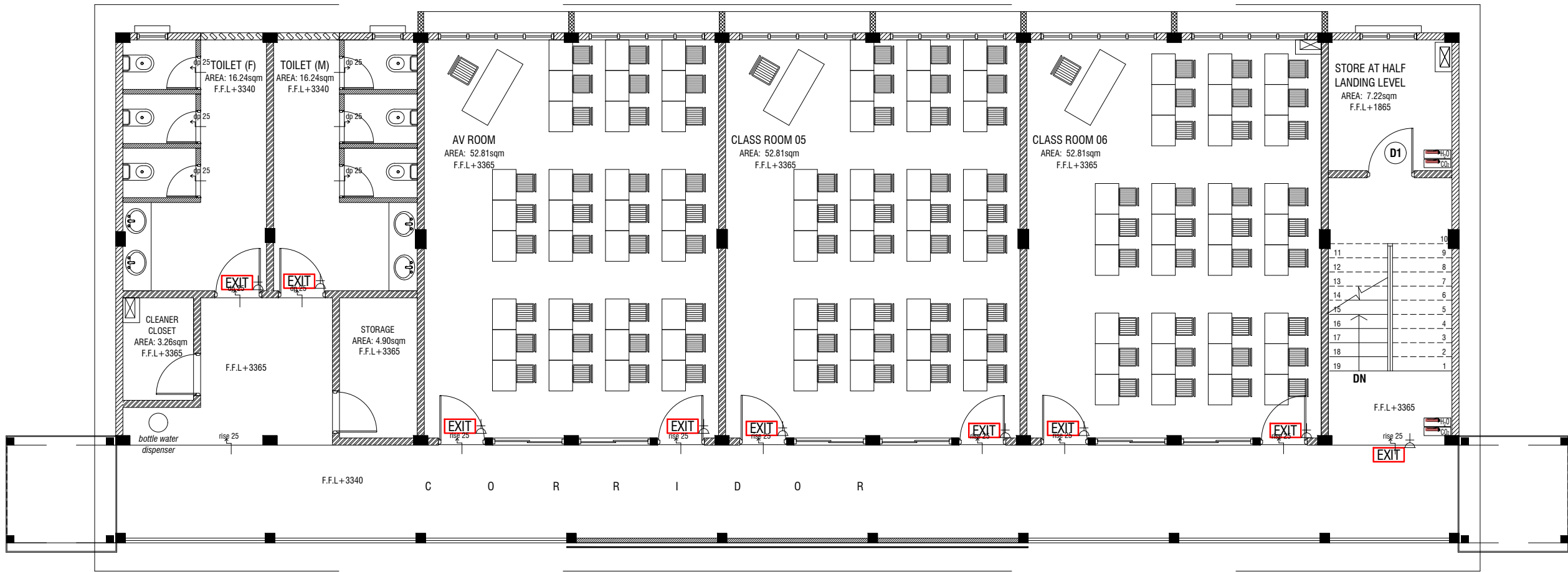
CHECKED : MOE

SCALE : AS GIVEN

DATE : 22.05.2022

| AMENDMENTS | | |
|------------|------|-------------|
| Issue | Date | Description |
| | | |

DWG NO : FD - 01 / 03



FIRST FLOOR FDP LAYOUT

SCALE 1:100



LEGEND



EXIT SIGN



CO₂ EXTINGUISHER (LOAD: 2KG) IN
POLYCARBONATE ENCLOSURE(TYP.)



H₂O EXTINGUISHER (LOAD: 9L)
IN POLYCARBONATE ENCLOSURE(TYP.)

ALL FIRE CABLES AND CONDUITS SHOULD
BE FIRE RETARDANT LOW SMOKE (FRLS)
TYPE.

ALL FIRE RATED DOOR SHOULD COME WITH
PACKING (EXPANSION SEAL TRAP)

- 1.ALL PIPES SHOULD BE GALVANIZED,SCHEDULE 40.
2. ALL PIPE SHALL BE PAINTED IN RED AS PER REGULATION.
3. ALL SUPPORT/BRACKET SHALL BE HOT DIPPED GALVANIZED TO 100MM 4.ALL FIRE EXTINGUISHER INSIDE CABINETS. (CABINET SHOULD BE PROVIDED)

-IF THE INSTALLATION OF CEILING IS CARRIED OUT LOWER THAN BEAM BOTTOM ,SMOKE DETECTORS SHOULD BE PLACED AS INDICATED ON THE DRAWING.
-ALTERNATIVELY IF THE INSTALLATION OF CEILING IS CARRIED OUT EQUAL TO BEAM BOTTOM OR IF THE CEILING IS NOT INSTALLED , SMOKE DETECTORS ARE TO BE PLACED IN BETWEEN EACH BEAM



PROJECT : **03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)**

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

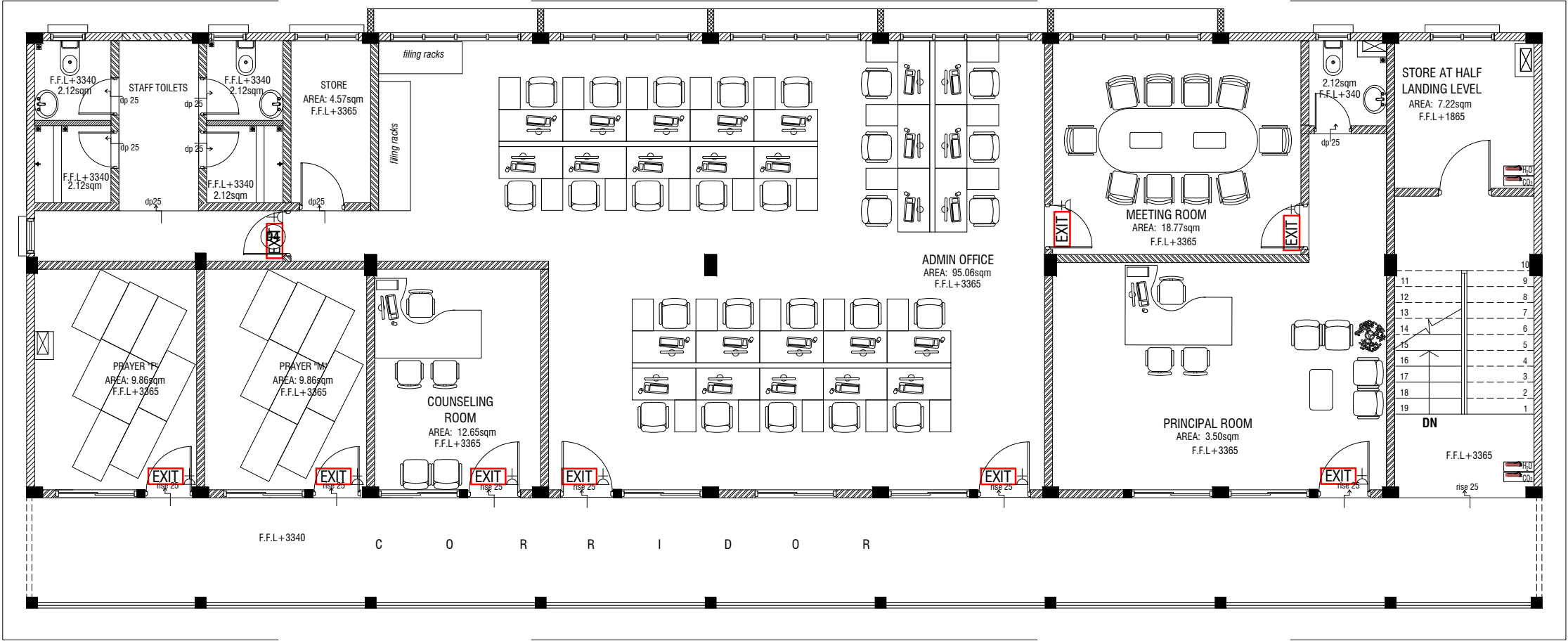
SCALE : AS GIVEN

DATE : 22.05.2022

AMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |

DWG NO : **FD - 02/ 03**



SECOND FLOOR FDP LAYOUT

SCALE 1:100



LEGEND



EXIT SIGN



CO₂ EXTINGUISHER (LOAD: 2KG) IN POLYCARBONATE ENCLOSURE(TYP.)



H₂O EXTINGUISHER (LOAD: 9L) IN POLYCARBONATE ENCLOSURE(TYP.)

ALL FIRE CABLES AND CONDUITS SHOULD BE FIRE RETARDANT LOW SMOKE (FRLS) TYPE.

ALL FIRE RATED DOOR SHOULD COME WITH PACKING (EXPANSION SEAL TRAP)

- 1.ALL PIPES SHOULD BE GALVANIZED,SCHEDULE 40.
2. ALL PIPE SHALL BE PAINTED IN RED AS PER REGULATION.
3. ALL SUPPORT/BRAKET SHALL BE HOT DIPPED GALVANIZED TO 100MM
- 4.ALL FIRE EXTINGUISHER INSIDE CABINETS. (CABINET SHOULD BE PROVIDED)

-IF THE INSTALLATION OF CEILING IS CARRIED OUT LOWER THAN BEAM BOTTOM ,SMOKE DETECTORS SHOULD BE PLACED AS INDICATED ON THE DRAWING.
-ALTERNATIVELY IF THE INSTALLATION OF CEILING IS CARRIED OUT EQUAL TO BEAM BOTTOM OR IF THE CEILING IS NOT INSTALLED , SMOKE DETECTORS ARE TO BE PLACED IN BETWEEN EACH BEAM



PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

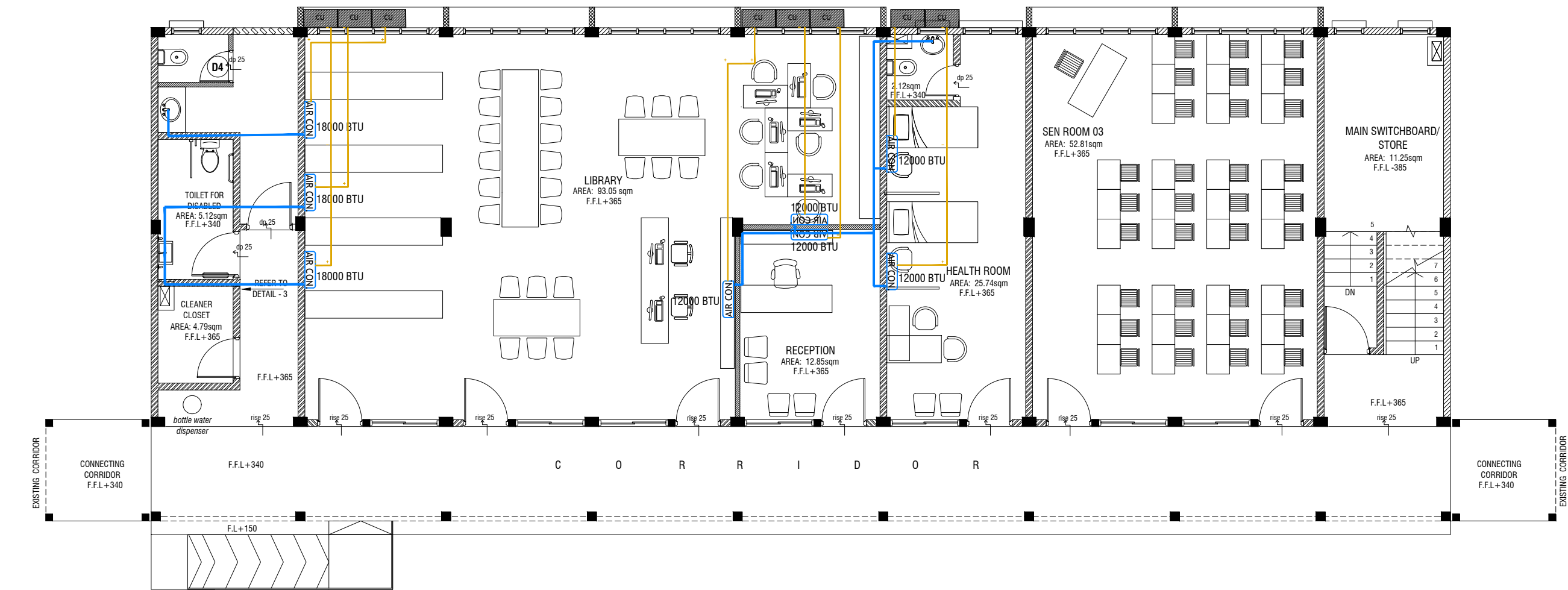
SCALE : AS GIVEN

DATE : 22.05.2022

AMENDMENTS

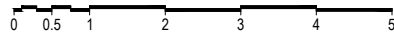
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DWG NO : FD - 03/ 03



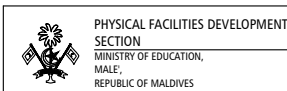
GROUND FLOOR ACV LAYOUT

SCALE 1:100



LEGEND

- REFRIGERANT PIPES
- 25 Ø CONDENSATE DRAIN PIPE
- CONDENSING UNIT



PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

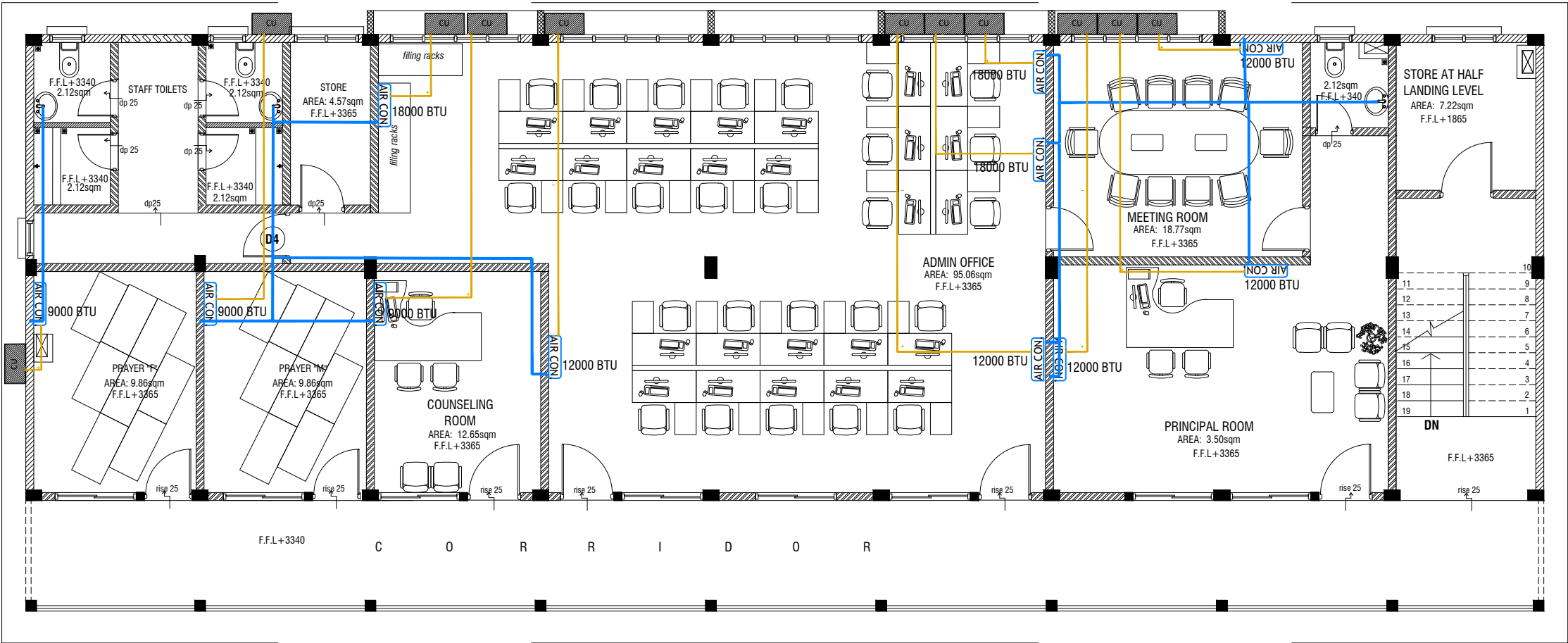
SCALE : AS GIVEN

DATE : 22.05.2022

AMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
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DWG NO : AC - 01/ 02

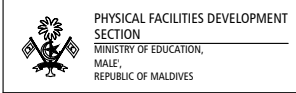


SECOND FLOOR ACV LAYOUT

SCALE 1:100

LEGEND

- REFRIGERANT PIPES
- 25 Ø CONDENSATE DRAIN PIPE
- CU CONDENSING UNIT



PROJECT : 03 CLASSROOM BLOCK
N.KENDHIKOLHUDHOO
(03 storey)

PROJECT
REFERENCE :

ARCHITECT : MOE

ENGINEER : MOE

DRAWN : MOE

CHECKED : MOE

SCALE : AS GIVEN

DATE : 22.05.2022

| AMENDMENTS | | |
|------------|------|-------------|
| Issue | Date | Description |
| | | |

DWG NO : AC - 02/ 02