THE UNITED REPUBLIC OF TANZANIA



PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

PROPOSED STANDARD DRAWINGS FOR SCHOOL FACILITIES.

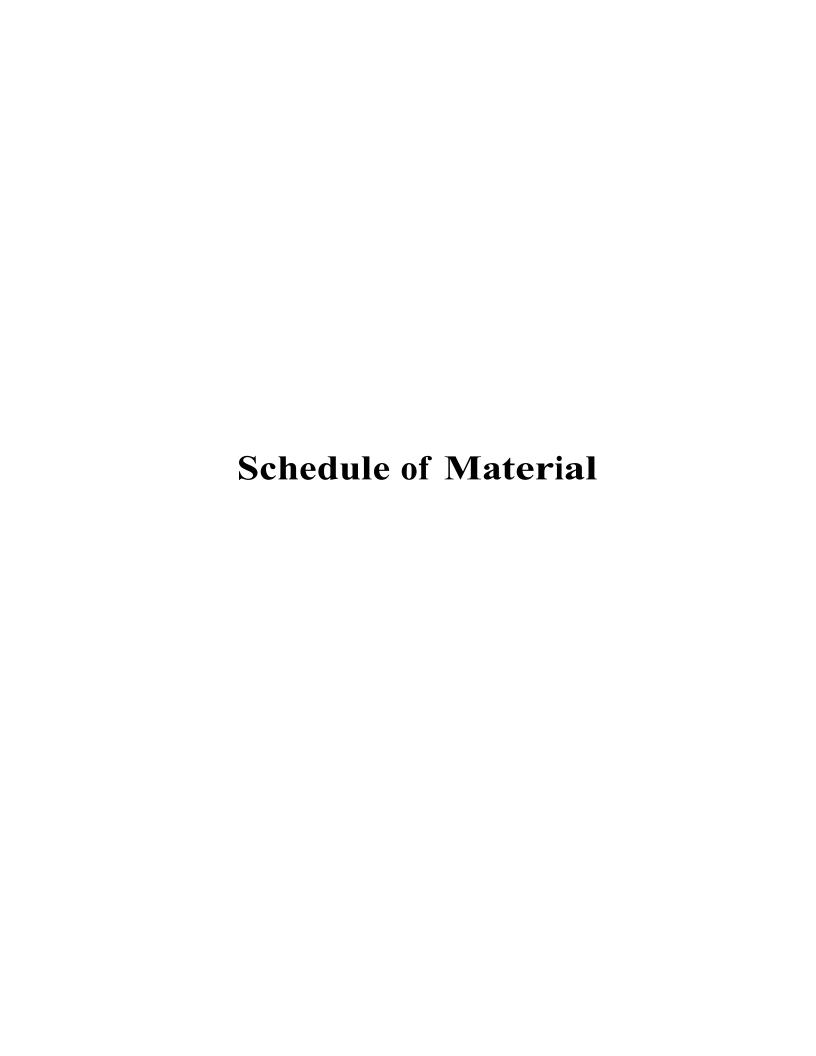
Schedule of Materials, Labour & Drawings for 160 Pupils Toilet Block (8 Stances) for Girls – Dry area.

PROJECT AREA

TANZANIA MAINLAND

Ministry of Education, Science and Technology,

Government City - Mtumba, AFYA -Street, P. O. Box 10, **40479 DODOMA.** President's Office, Regional Administration, & Local Government Government City - Mtumba TAMISEMI Street, P. O. Box 1923, 41185 DODOMA.



TEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
	<u>MATERIALS</u>				
Α	SUB-STRUCTURE -PROVISIONAL				
1	Strip Foundation - Grade 15 Plain				
	Aggregate (3/4")	5	M^3		
	Sand		M ³		
	Cement-50kgs (42.5)	22	Bags		
2	Foundation Walls				
	6" Cement & Sand block - Minimum Strength 3. 5 MPa Sand	375 3	No M ³		
	Cement -50kgs (42.5)	7	Bags		
3	Moram, Hardcore & Site sterilization				
	Moram (4.5m ³ lorry)	2	Trips		
	Hardcore (4.5m ³ lorry)	2	Trips		
	Sand blinding	3	M^3		
	Adrian 0.5% solution or equal 500mls	1	Bottle		
4	Oversite Concrete (100mm thick - 20 grade) & Ground Beam - 20 grade, columns and Ramp				
	DPM	39	M^2		
	Cement -50kgs (42.5)	25	Bags		
	Aggregates (1/2")	4	M^3		
	Sand	2	M^3		
	Reinforcement - 12mm diameter high tensile		PC'S		
	Reinforcement - 8mm diameter	12	PC'S		
	Binding Wire	4	Kg		
	A252 Mesh 200 x200x6.16kg/m2	1	PC'S		
	Timber 1" X 10 " (3.6m long)	8	PC'S		
	Timber 2" X 2"	4	PC'S		
	Nails-4"	3	Kgs		
	Nails-3"	3	Kgs		
	Supporting props	0	PC'S		
	SUB-TOTAL SUBSTRUCTURE				

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
В.	SUPERSTRUCTURE				
1	Walls & Ring beam & Columns				
	6" Cement & Sand block - Minimum Strength 3.5	890	No		
	Cement & Sand Perforated blocks	0	No		
	DPC 25m long x 1m wide)	11	М		
	Sand	5	M^3		
	Cement-50kgs (42.5)	16	Bags		
	Aggregates (1/2")	1	M^3		
	Reinforcement - 12mm diameter high tensile	8	PC'S		
	Reinforcement - 8mm diameter	6	PC'S		
	Binding Wire	4	kg		
	A252 Mesh 200 x200x6.16kg	0	PC'S		
	Timber 1" X 10" to Sides (3.6m long)	6	PC'S		
	Timber 1" X 6" (Plates)	2	PC'S		
	Timber 2" X 2"	4	PC'S		
	Supporting Props	4	PC'S		
	SUB-TOTAL SUPER STRUCTURE				
C.	ROOF STRUCTURE & COVERING				
1	Roof Structure - Provisional (3.6m long)				
	Timber 2 " X 3" Purlins	9	PC'S		
	Timber 2" X 4" Wall plate,Rafter	10	PC'S		
	Fascia board 1" X 8"	6	PC'S		
	Nails -5"	3	Kgs		
	Nails -4"	3	Kgs		
	Nails -3"	3	Kgs		
	NOTE: The above softwood timber structure				
	should be pressure impregnated treated				
2	Roof Covering				
	28G IT5 resincoated sheet 3m long		pcs		
	Roofing Nails	1	Kgs		
	TO COLLECTION			C/F	

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
	ROOF STRUCTURE & COVERING CONT				
				B/F	
3	<u>Gutter's</u>				
	Upvc 100mm half round (6m long)-5"	2	PC'S		
	Upvc 75mm diameter down pipe; Class B	1	PC'S		
	PVC outlet	1	PC'S		
	PVC bend 45'	1	PC'S		
	Gutter support bracket		PC'S		
	Gutter Clamp 3"		PC'S		
	Connector		PC'S		
	SUB-TOTAL ROOF STRUCTURE & COVERING				
D.	DOOR				
1	40mm thick hardwood (mninga) or equal and				
	aproved paneled door shutter 920 x 2100mm high	1	PC'S		
	720 x 2100mm high		PC'S		
	720 X 2100111111111111111	/	1 0 3		
2	45x145mm Frames (hardwood), Varnish, Glass &				
	Buralar bar				
	1000 x 2100 mm high frame		PC'S		
	800 x 2100mm high frame		PC'S		
	Brush 3"	2	Pcs		
	Sand paper (msasa) No.80	2	LM		
	Clear Varnish - 4Litres	2	TIN		
	Thinner for Varnish -4Litres	2	Litres		
	Door grill with 38mm x 4mm flat bars, 25mm x 25mm square pipespainted with red oxide				
	1000 x 1500mm high	1	No		
3	IronMongeries - ref Union				
	Barrel bolt with pad lock	10	No		
	Flush bolt		No		
	Brass hinges - 100mm		Pairs		
	SUB-TOTAL FOR DOORS	13	1 0113		
	30D-101AL 10K DOOKS				

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
E.	FINISHING				
1	Floor finishing -				
	Bedding/Backing; cement sand and Chipping (1:2:2); to steel finishing				
	Sand	2	M^3		
	Cement-50kgs (42.5)	8	Bags		
2	Wall Finishing				
	Sand		M^3		
	Cement-50kgs (42.5)	10	Bags		
	Wall Puty	7	Bags		
	SUB-TOTAL FOR FINISHING				
F.	PAINTING & DECORATION				
	Emulsion Paint - 20 LTRS	3	bucke	ets	
	Weather guard Paint - 20 LTRS	1	bucke	ets	
	Washable paint -20 LTRS	1	bucke	ets	
	Primer paint -5 LTRS	1	bucke	ets	
	Solvent - 3LTRS	1	TIN		
	Brush 3"	2	Pcs		
	Roller	2	Pcs		
	Gloss paint-2LTR	1	TIN		
	Bitumen paint - 4Litres	1	TIN		
	SUB-TOTAL FOR PAINTING&DECORATION				
G.	PLUMBING & SANITARY INSTALLATION- PROVISIONAL				
1	Western type high level W.C disabled toilet, suite vitrious china to B.S 3402 s/p-trap compete with its accessories, supporting rails, Handwashing and any other accessories complete	1	Pcs		
2	PIPES WORK				
	SUPPLY PIPE PN 16				
	PPR/IPS pipes class B argentina 3/4"	Pcs	6		
	PPR/IPS socket (20Ø) 3/4"	No	6		
	PPR/IPS elbow (20Ø) 3/4"	No	35		
	PPR/IPS tee (20Ø) 3/4"	No	36		
	PPR/IPS niple (20Ø) 3/4"	No	50		

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
	PPR/IPS reducing bush (20Ø) 3/4" to 1/2"(15Ø)	No	46		
	PPR/IPS pipes class B argentina 1"(32Ø)	Pcs	3		
	PPR/IPS socket 1"(32Ø)	No	6		
	PPR/IPS elbow 1"(32Ø)	No	4		
	PPR/IPS tee 1"(32Ø)	No	4		
	PPR/IPS niple 1"(32Ø)	No	4		
	PPR/IPS reducing bush (32Ø) 1" to 3/4"(20Ø)	No	10		
	PPR/IPS pipes class B argentina 11/2"(50Ø)	Pcs	6		
	PPR/IPS socket 11/2"(50Ø)	No	4		
	PPR/IPS elbow 11/2"(50Ø)	No	4		
	PPR/IPS tee 11/2"(50Ø)	No	4		
	PPR/IPS niple 11/2"(50Ø)	No	4		
	PPR/IPS reducing bush (50Ø) 11/2" to 1"(32Ø)	No	3		
	Seal tape	Pcs	20		
	VALVES AND CONTROLS				
	Bib cork pex/martex 1/2" PN 16	No	15		
	Gate valve pex/martex 3/4" PN 16	No	10		
	Gate valve pex/martex 1" PN 16	No	1		
	Ball valve 11/4"	No	1		
	WATER STORAGE TANK				
	1,000litres T ANK	No	2		
	Tank connector 1"	No	6		
	Tangit glue 1000g	kg	1		
	Clamp 3"	5	PC'S		
	SUB-TOTAL FOR PLUMBING & SANITARY INSTALLATION-				
	TANK BASE				
	6 Cement & Sana block - Minimum Strength 3.5	20	No		
	Cement-50kgs (42.5)	2	Bags		
	Aggregates (1/2")	1	М3		
	Sand	1	МЗ		
	Sana				

TEM	DESCRIPTION	QTY	UNII	PRICE-TZS	AMOUNT
	SOAK AWAY PIT				
	<u>MATERIALS</u>				
1	Strip Foundation - Grade 15 Plain				
•	Aggregate (3/4")	5	M^3		
	Sand		M^3		
	Cement-50kgs	22	Bags		
2	230mm thick Walls				
	6" Cement & Sand block - Minimum Strength 3.5 MPa	1,680			
	Sand	5	M^3		
	Cement -50kgs		Bags		
	Hardcore 230mm thick (4.5m³ lorry)	2	Trips		
4	150mm thick Suspended Concrete slab & ground beam- 20 grade				
	Cement -50kgs	49	Bags		
	Aggregates (1/2")	6	M^3		
	Sand	3	M^3		
	Reinforcement - 12mm diameter high tensile	12	PC'S		
	Reinforcement - 8mm diameter high tensile	13	PC'S		
	Reinforcement - 10mm diameter high tensile	59	PC'S		
	Binding Wire - 1kg	10	Kgs		
	Timber 1" X 10 " (3.6m long)	14	PC'S		
	Marine board	10	PC'S		
	Timber 2" X 2"	10	PC'S		
	Supporting props		PC'S		
	Nails-4"		Kgs		
	Nails-3"		Kgs		
	Pre Cast concrete chamber 600 x 600mm		PCS		
	TOTAL SOAK AWAY PIT				
L	Steel handrails to ramp				
	Supply and fix steel support handrails 750mm high				
	comprising 38mm diameter hollow section pipe				
	top, bottom and vertical rails spaced at 300mm				
	centres to centres as per Architectural drawings	8	m		
	SUB-TOTAL FOR HANDRAILS				

	SUMMARY	AMOUNT TZS
	8no stances toilets block -Girls	
A.	SUB-STRUCTURE -PROVISIONAL	
В.	SUPERSTRUCTURE	
C.	ROOF STRUCTURE & COVERING	
D	DOOR	
Е	FINISHING	
F	PAINTING & DECORATION	
G	PLUMBING AND INSTALLATION	
Н.	TANK BASE	
J.	SOAK AWAY PIT	
L	HANDRAILS TO RAMP	
	TOTAL BUILDING MATERIALS CARRIED TO GENERAL SUMMARY	
	ADD:	
	LABOUR COST CARRIED TO GENERAL SUMMARY : (Improve and Fill the respective	Labour form)
	Notes	
	Note: i Refer General Summary for: Preliminary, Transportation and Supervision Costs	
	ii. Preliminary cover the following item:	,
	- Setting out working tools, Equipments, Temporary toilets, water for the works,	Scaffolding
	- Power for the works, Security, store, Materials test, levelling, holdings and ren	<u> </u>
	iii. Supervision cost depend on guideline of the specific project	
	, and a second project	

THE UNITED REPUBLIC OF TANZANIA

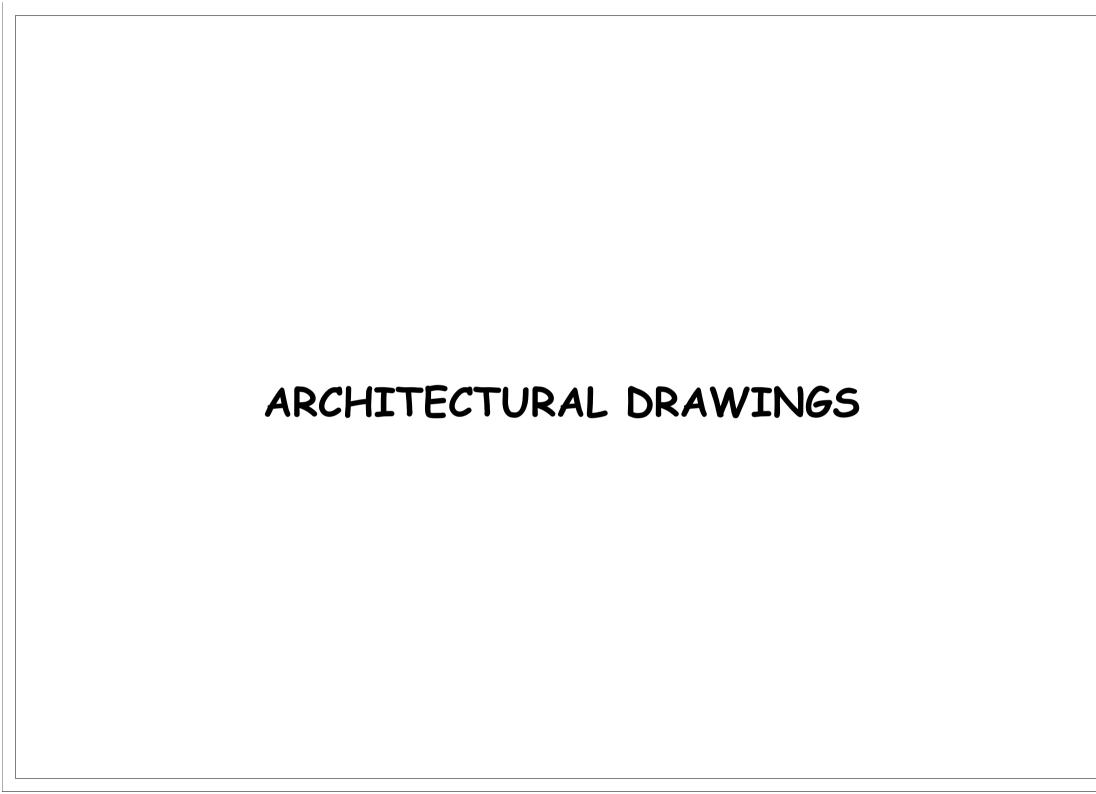
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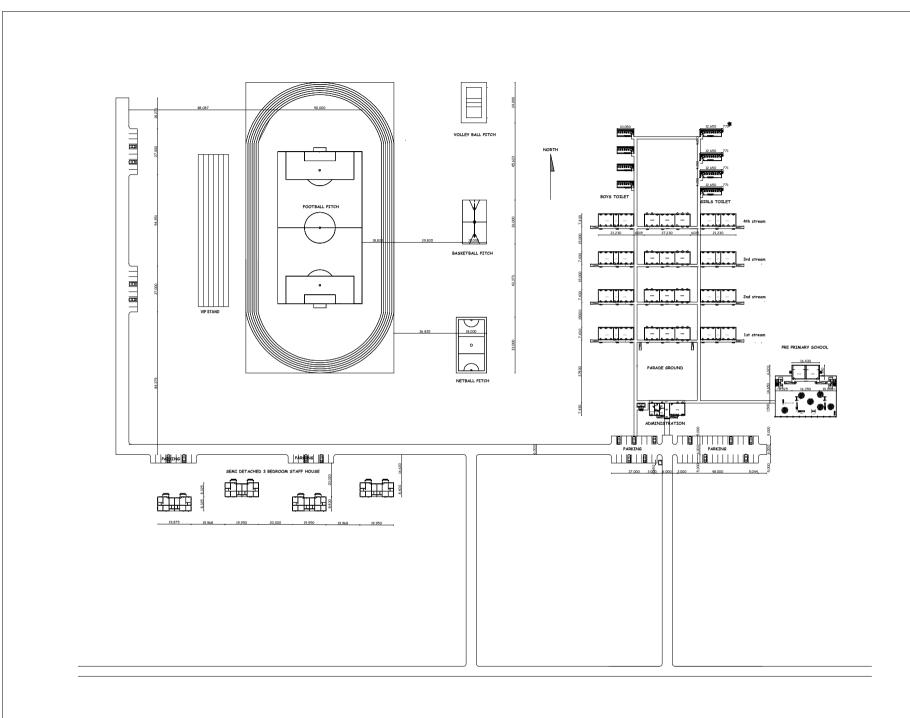
IN COLLABORATIONS WITH

PRESIDENT'S OFFICE, REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

PROVISION OF PHYSICAL FACILITIES IN PRIMARY SCHOOLS

Ministry of Education, Science and Technology Government City-Mtumba, Afya Street, P.O. Box 10, 40479 DODOMA President's Office, Regional Administration and Local Government. Government City-Mtumba, TAMISEMI Street, P.O. Box 1923, 41185 DODOMA





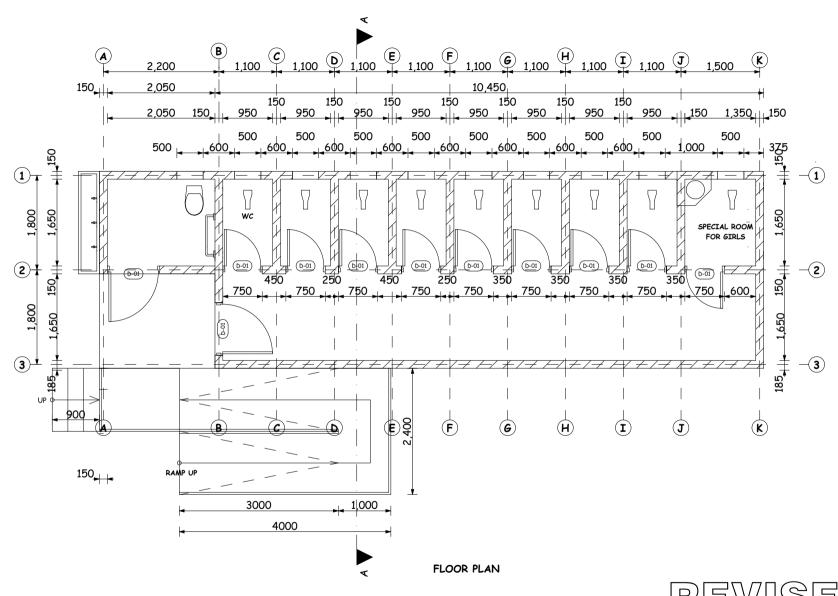
MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY
PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND
LOCAL GOVERNMENT

PROVISIO OF PHYSICAL FACILITIES IN PRIMARY SCHOOLS

PROPOSED STANDARD DESIGN FOR PRE PRIMARY SCHOOL CLASSROOMS

DRAWING TITLE:	Date	December, 2022
SAMPLE SITE PLAN	Drawn by	IA5
	Checked by	AAL
DRAWING NO: ARC/PPS/01	Scale	To fit

TOILET BLOCKS - DRY AREA
160 GIRLS (8 STANCES) WITH FACILITY
FOR DISABLED



REVISED 1

MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY
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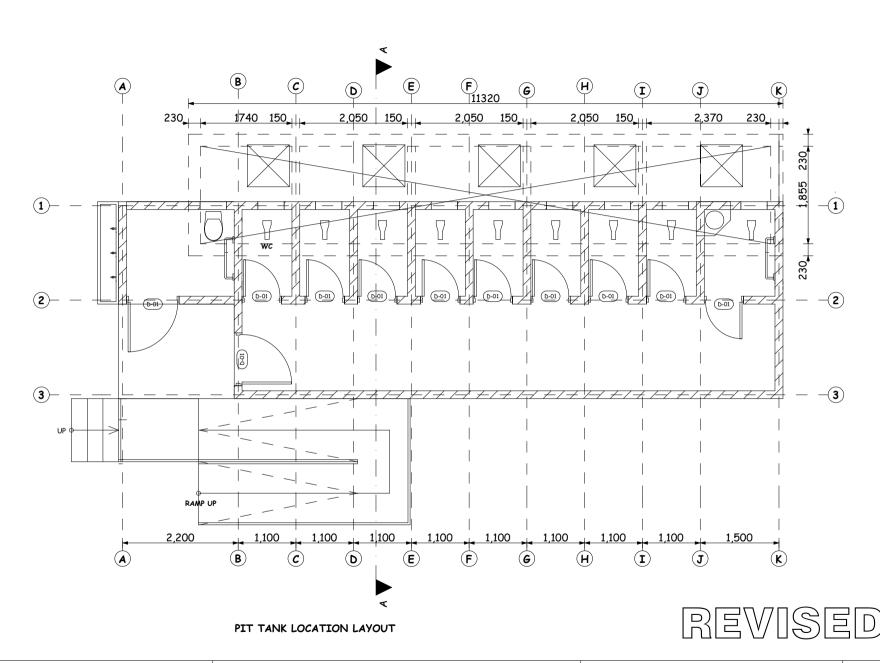
PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

PROVISION OF PHYSICAL FACILITIES IN PRIMARY SCHOOLS

DRAWING TITLE
TOILET FOR 160 GIRLS WITH FACILITY FOR DISABLED
DRY AREA - FLOOR PLAN

DRAWING NO. BP/ARC/TLT-DG160/01

DRAWN BY J.R CHECKED BY I.A.S. SCALE 1;200 DEC,2022



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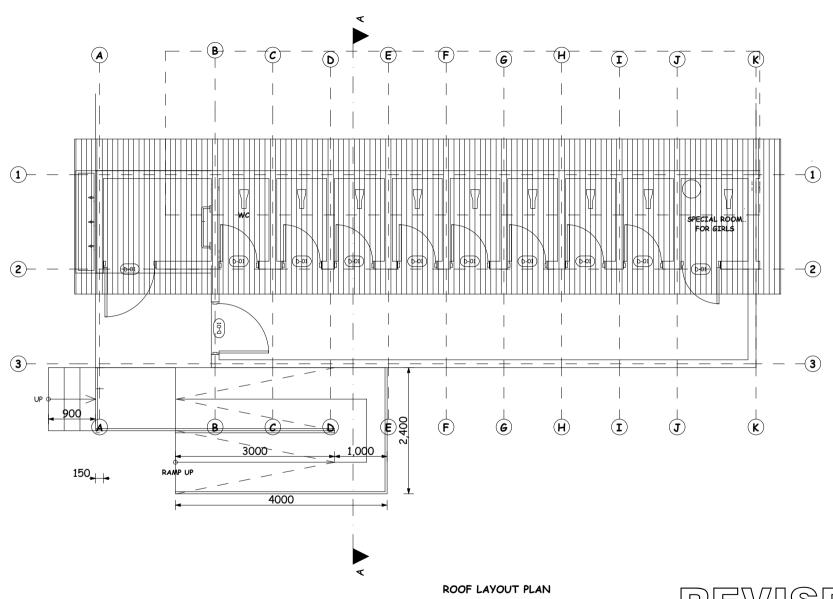
PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

PROVISION OF PHYSICAL FACILITIES IN PRIMARY SCHOOLS

DRAWING TITLE
TOILET FOR 160 GIRLS WITH FACILITY FOR DISABLED
DRY AREA - FLOOR PLAN SHOWING PIT LATRINE LAYOUT

DRAWING NO. BP/ARC/TLT-DG160/02

DRAWN BY J.R CHECKED BY I.A.S. SCALE 1;200 DEC,2022



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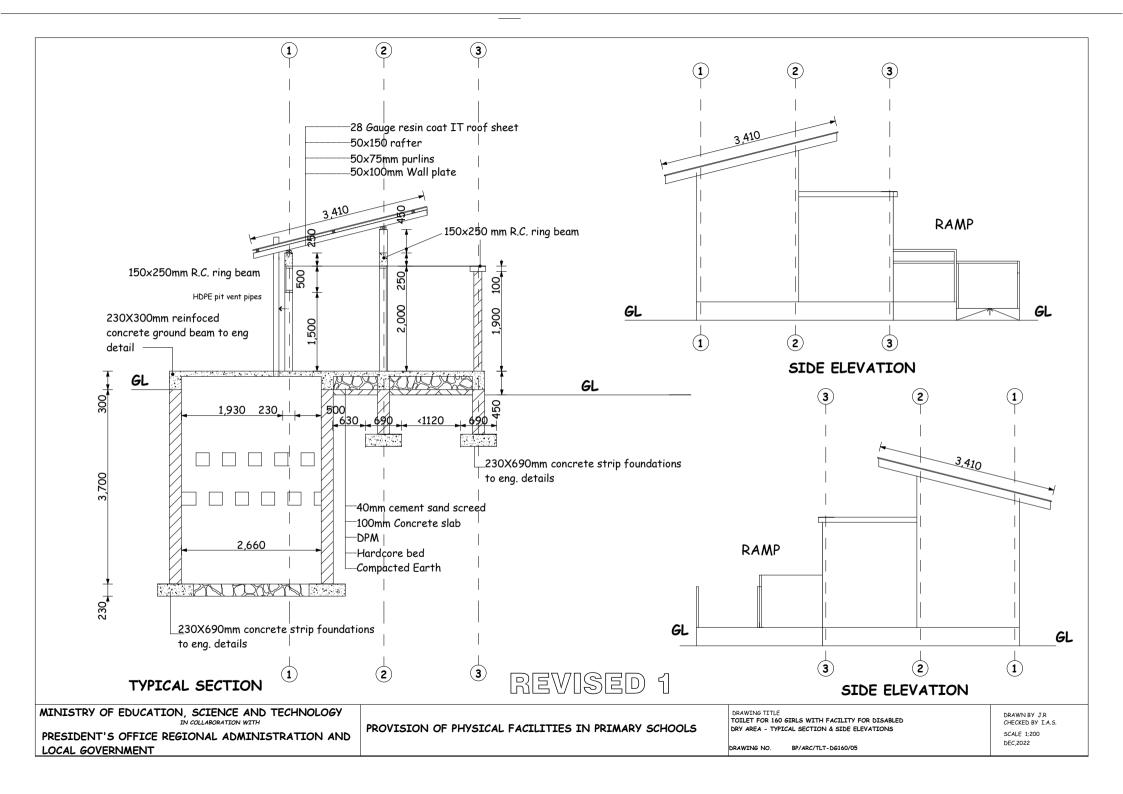
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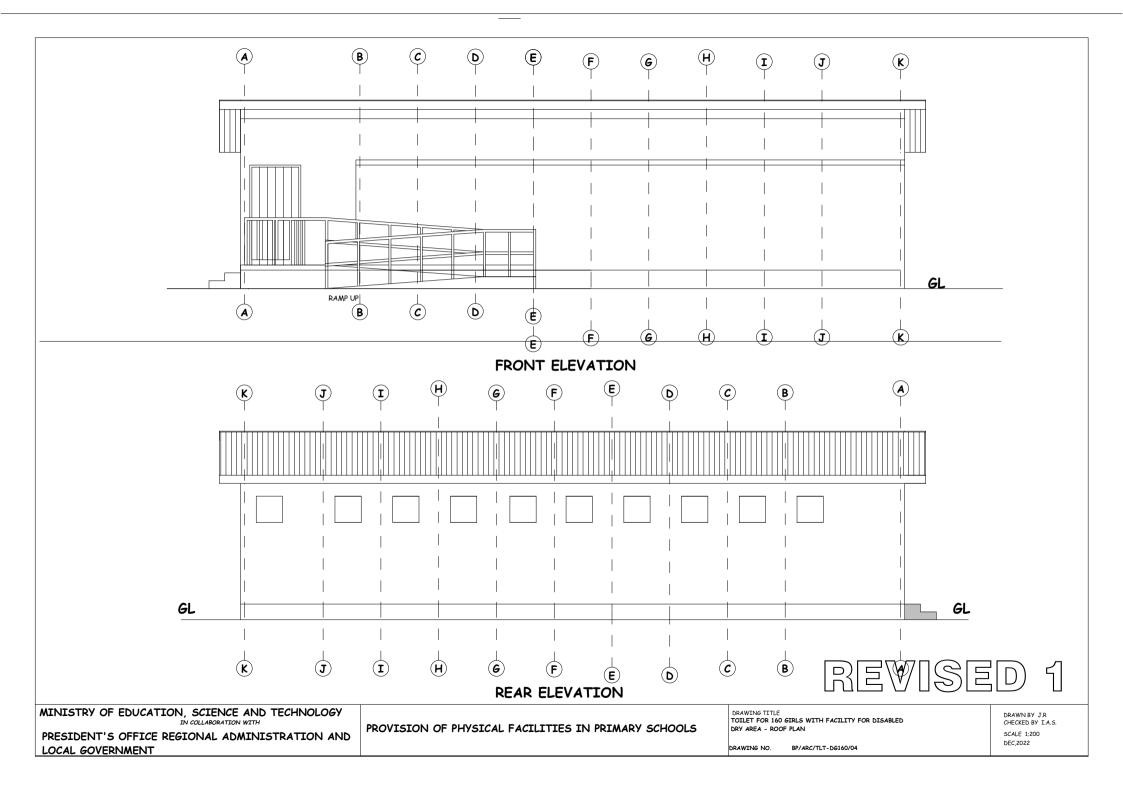
PROVISION OF PHYSICAL FACILITIES IN PRIMARY SCHOOLS

DRAWING TITLE
TOILET FOR 160 GIRLS WITH FACILITY FOR DISABLED
DRY AREA - ROOF PLAN

DRAWING NO. BP/ARC/TLT-DG160/03

DRAWN BY J.R CHECKED BY I.A.S. SCALE 1;200 DEC,2022





LIST OF DRAWINGS

DRAWING NO.

DESCRIPTION,

BP/PL/TLT/01

BP/PL/TLT/02

BP/PL/TLT/03

BP/PL/TLT/04

LEGEND AND NOTES

WATER SUPPLY SYSTEM

RAIN WATER HARVESTING SYSTEM

PART PLAN AND SECTION DETAILS

LEGEND

——— Cold Water supply pipes

Sanitary drainage pipes

——— Hot water supply pipes

Vent pipe

Gate valve

Check valve

M Water meter

Hand operated angle valve

Flexible pipe

Hose bib

⊣ Straight tee

□ 90° elbow

→ elbow going downwards

o⊢ elbow going upwards

⊢ tee going upwards

⊢ tee going downwards

Direction of water flow

Wall mounted electric water heater

NOTE

All ppr-pipes exposed to sunlight

should be insulated

NOTE

ALL DIMENSIONS ARE IN MILLIMETRES

ALL PIPE DIAMETERS ARE EXTERNAL DIAMETERS

HWB- hand wash basin

HB- Hose Bib

WC- Water closet

UR- Urinals

HS- Handspray

SHW- Shower tray

WH- Electric water heater

GT- Gully trap

IC- Inspection chamber

IL- Invert level

FD- Floor drain

VP- Vent pipe

CWP- Cold water provision

WWP- Waste water

provision

NOTE:

ALL SANITARY APPLIANCES SHOULD BE CONNECTED TO THE WATER SUPPLY PIPE THROUGH AN ANGLE

VALVE

NOTE:

ALL PIPES DIAMETER SPECIFIED ARE EXTERNAL DIAMETRES AND HAVE BEEN SPECIFIED ACCORDING TO ISO 4427, THESE PIPES ARE PPR-PIPES WITH PN1.6

Notes

- 1. Pipe dimensions are in mm internal diameter (DN).
- 2. All internal water supply pipes and riser shall be embeded in walls/floor as shown on the drawings
- 3. All internal water supply pipes shall be in PPR (Fusion) and external pipe should be HDPE
- 4. All wastewater pipes shall be of uPVC class "B" embedded to wall/concrete floor where applicable except for vent pipes
- 5. All drains pipes passing under building or drive way shoud be incased in 150mm concrete sorrounding
- 6. Manhole cover and Gully trap covers in walking areas to be air tight and their top finishing to match with their surroundings otherwise mahole to be cast iron medium duty
- 7. Slope of horizontal wastewater pipes from appliances should not exceed 1:40
- 8. Slopes of horizontal wastewater pipes from GT to MH or MH to MH should not exceed1:100
- 9. Slopes of storm water drainage should not exceed 1%
- 10. All work to be carried out in accordance with all rellevant acts, regulators, statutory authority requirements ans best practices
- 11. All relevant details, level dimensions must be checked onsite. Any discepancies must be reported for approval prior to implementation
- 12.The design including details must be coordinated with other designs(Structural, PLhitectural and other services) prior to implementation

13. ALL LABORATORY WASTE PIPES ARE VULCATHENE PIPES

14. These drawings must be used in conjunction with PLhitectural drawings for dimension reference

15. Site information must be analysed before use of these drawings

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PROVISION OF PHYSICAL FACILITIES IN PRIMARY SCHOOLS

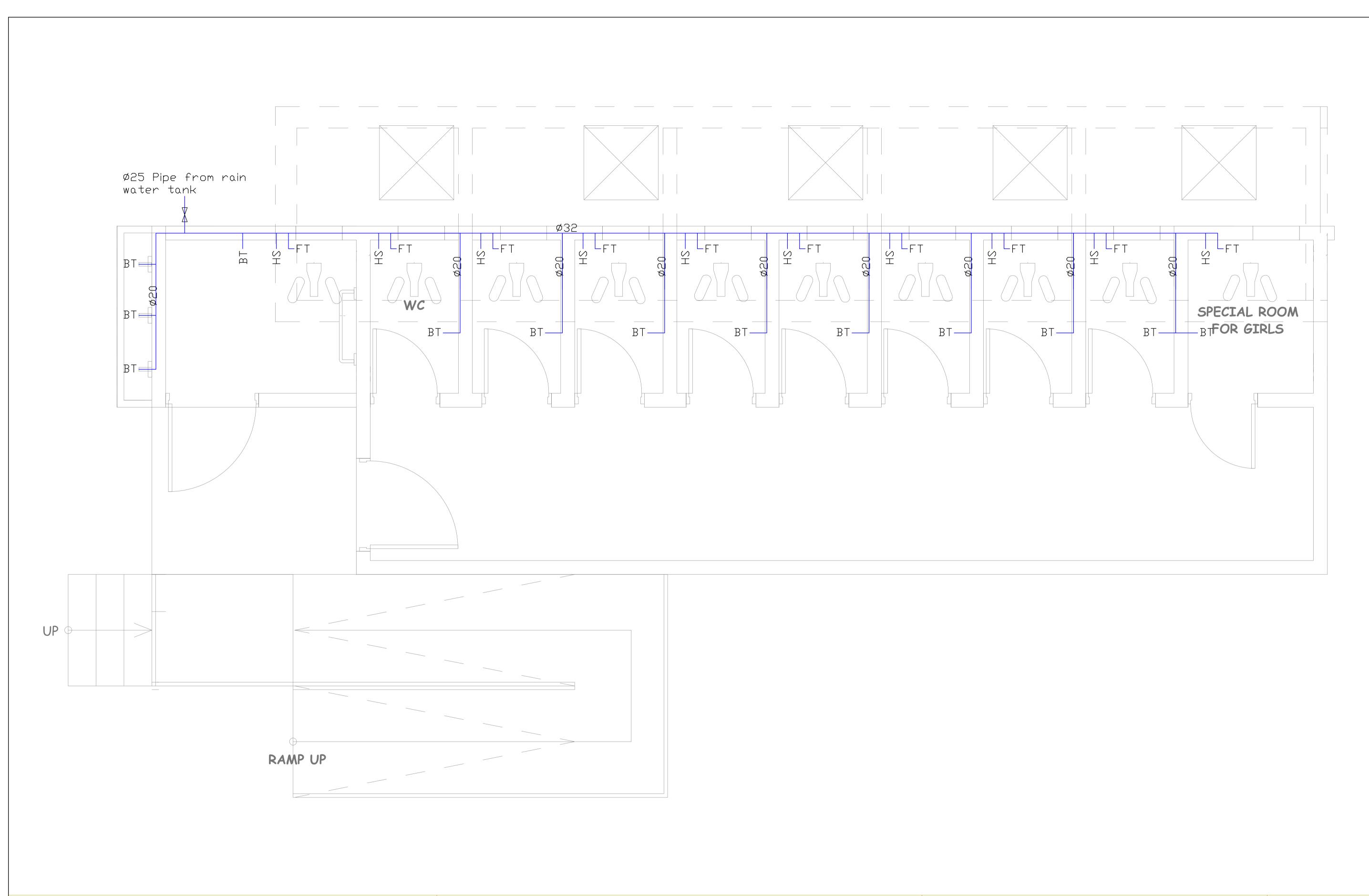
DRAWING TITLE

DRAWING NO.

LEGEND AND NOTES

BP/PL/TLT/01

DRAWN BY NSM CHECKED BY I.A.S. SCALE 1;200 DEC,2022



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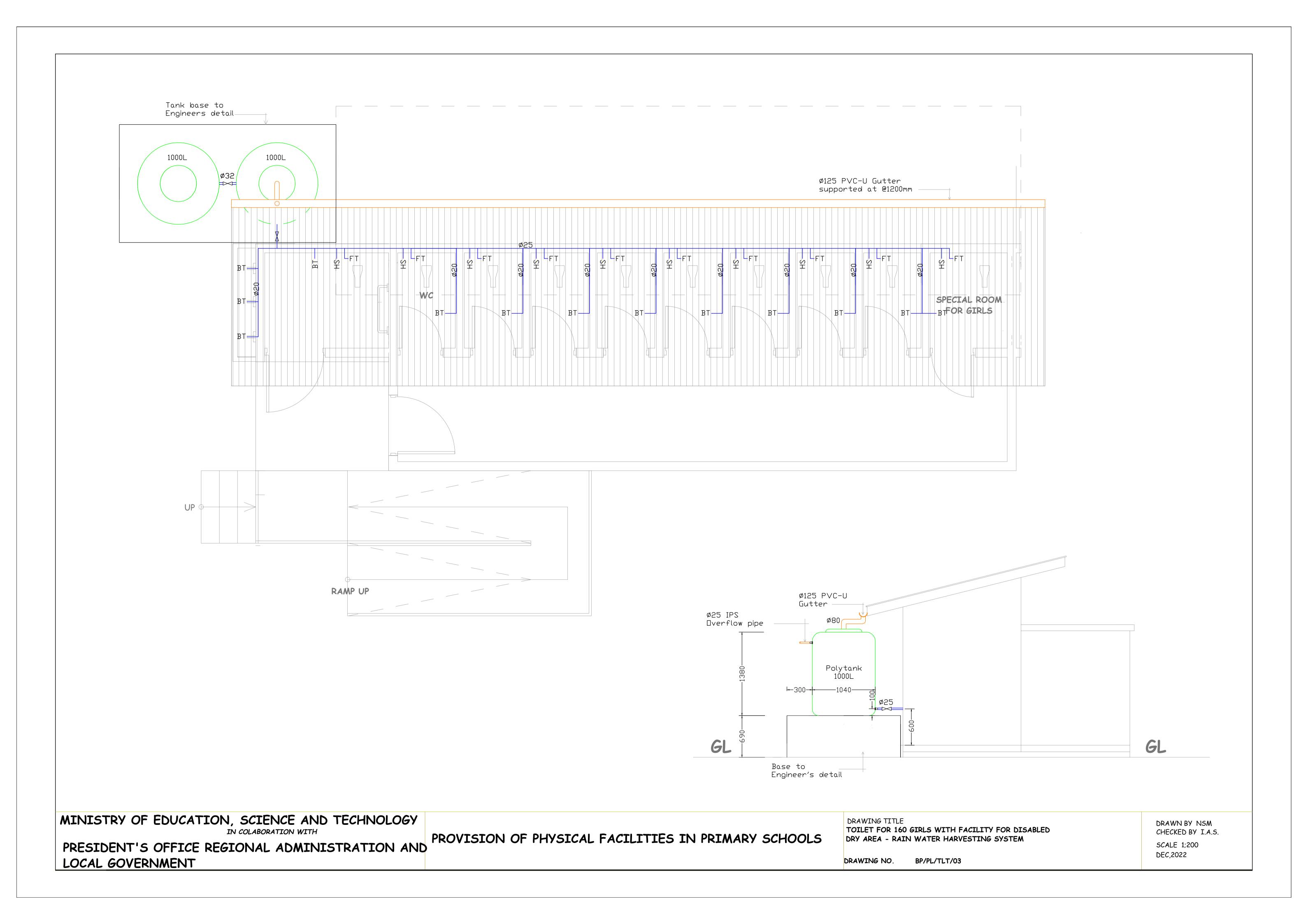
PROVISION OF PHYSICAL FACILITIES IN PRIMARY SCHOOLS

DRAWING TITLE

TOILET FOR 160 GIRLS WITH FACILITY FOR DISABLED DRY AREA - WATER SUPPLY SYSTEM

DRAWING NO. BP/PL/TLT/02

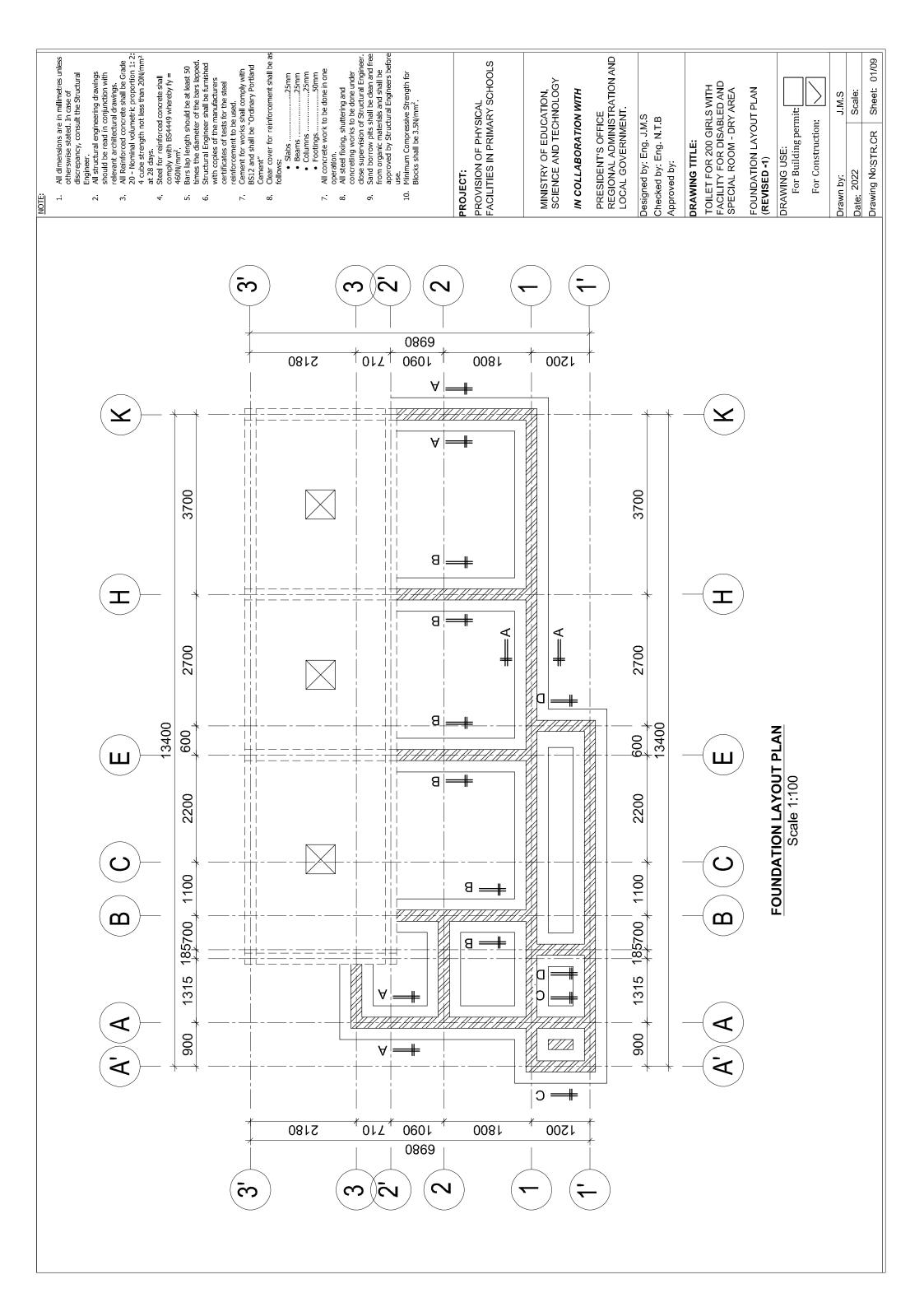
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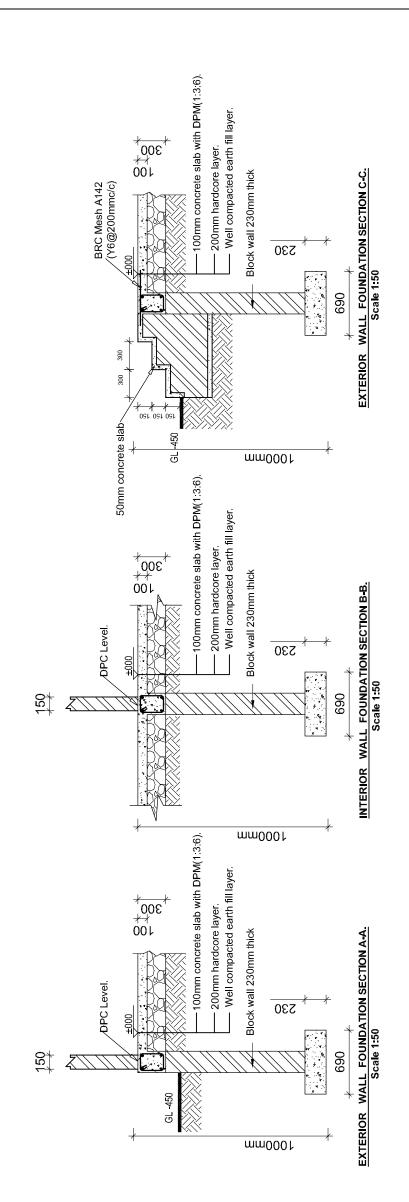


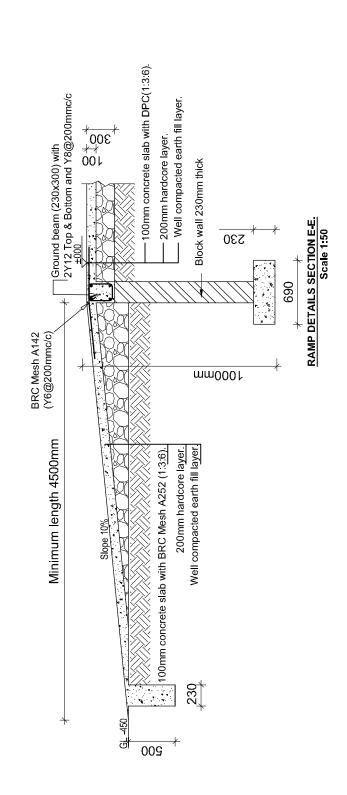
STRUCTURAL DRAWINGS

FOR

S (8 STANCES) WITH FACILITY FOR DISABLED AND SPECIAL **TOILET BLOCK - DRY AREA ROOM GIRLS 200 GIRL**







relevant architectural drawings. All Reinforced concrete shall be Grade 20 - Nominal volumetric proportion 1: 2: 4 cube strength not less than 20N/mm² at 28 days. Steel for reinforced concrete shall comply with BS4449 whereby fy = 460N/mm². Bars lap length should be at least 50 times the diameter of the bars lapped. Structural Engineer shall be furnished with copies of the manufacturers certificates of tests for the steel reinforcement to be used. Cement for works shall comply with All dimensions are in millimetres unless otherswise stated. In case of discrepancy, consult the Structural All structural engineering drawings should be read in conjunction with 7 m 5

9

Cement" Clear cover for reinforcement shall be as œ

25mm 25mm 25mm SlabsBeamsColumns

7

 Footings.

All concrete work to be done in one operation.

All steel fixing, shuttering and concreting works to be done under close supervision of Structural Engineer. Sand borrow pits shall be clean and free from organic materials and shall be approved by Structural Engineers before œ 6

2

use. Minimum Compressive Strength for Blocks shall be 3.5N/mm²

PROJECT:

PROVISION OF PHYSICAL FACILITIES IN PRIMARY SCHOOLS

MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY

IN COLLABORATION WITH

PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT.

Designed by: Eng. J.M.S Checked by: Eng. N.T.B Approved by:

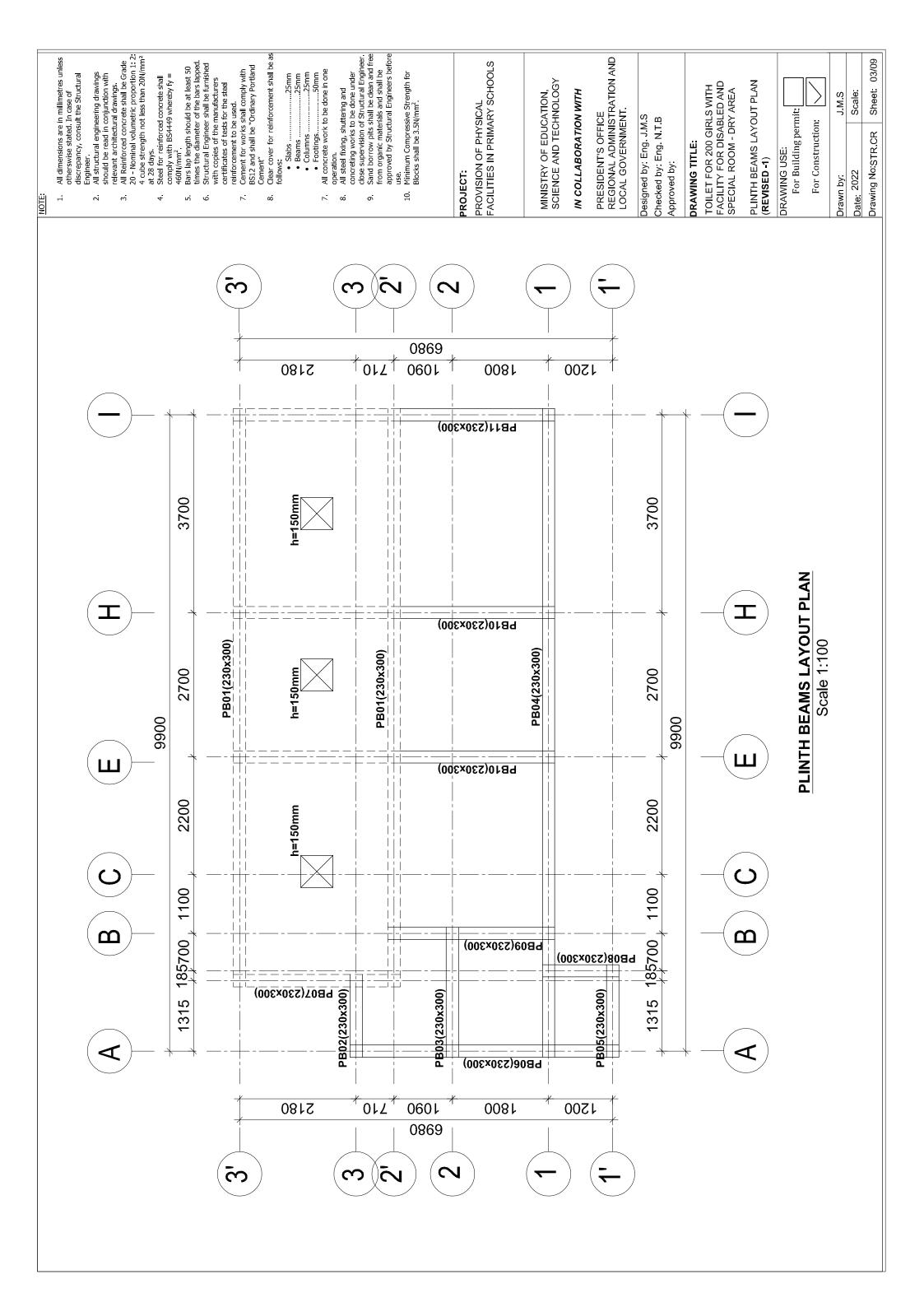
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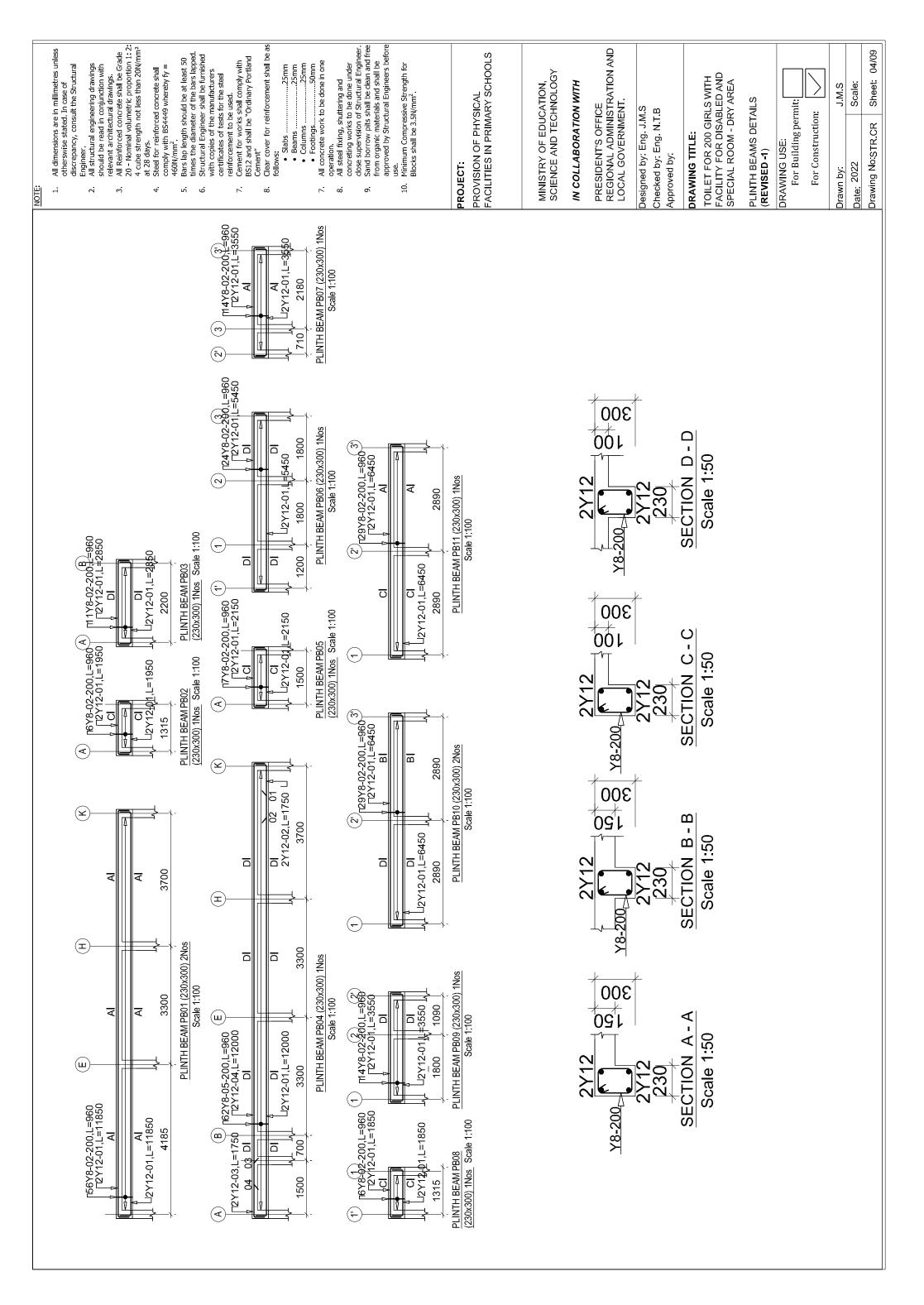
TOILET FOR 200 GIRLS WITH FACILITY FOR DISABLED AND SPECIAL ROOM - DRY AREA

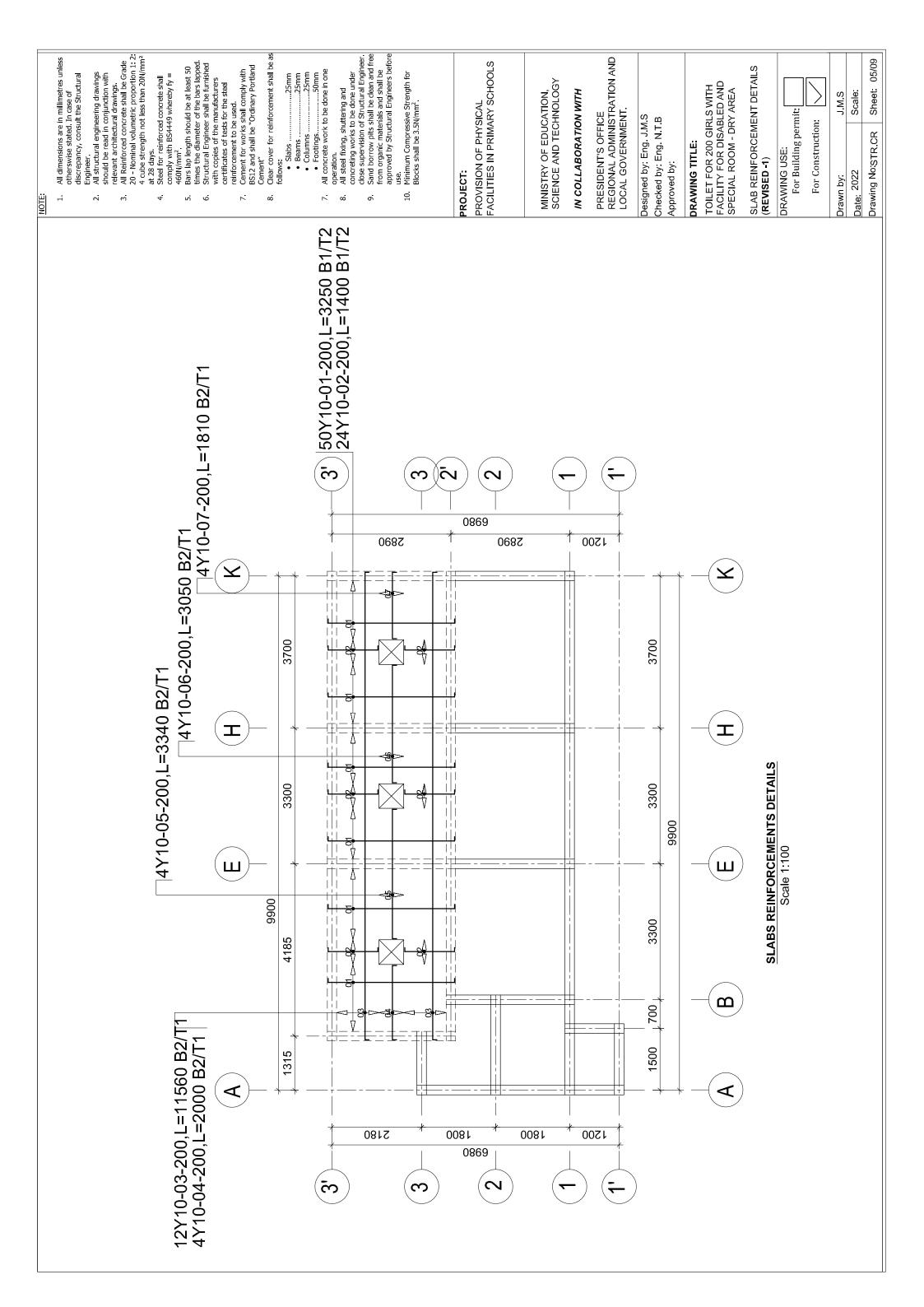
FOUNDATION DETAILS (REVISED -1)

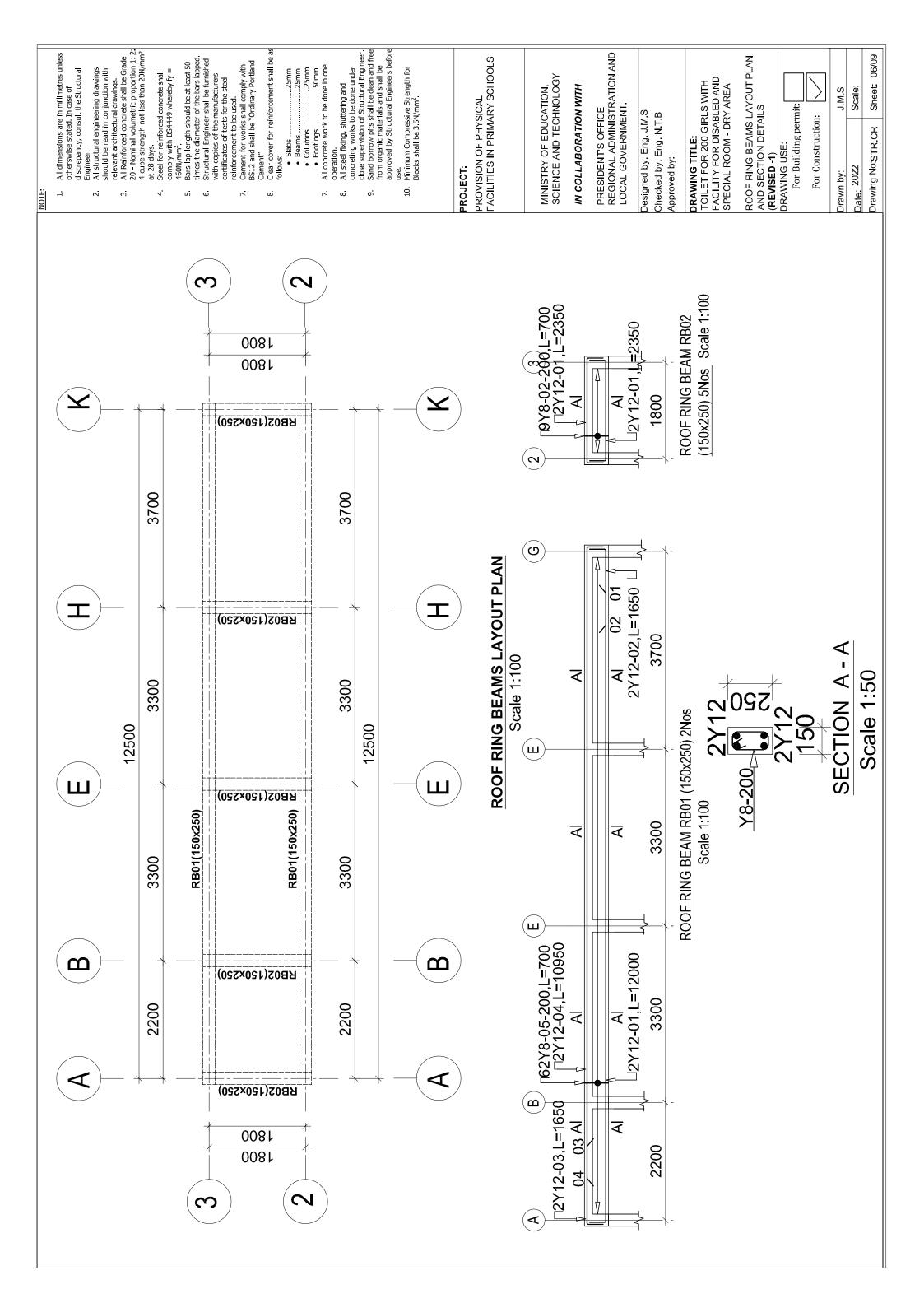
DRAWING USE:	For Building permit:	For Construction:

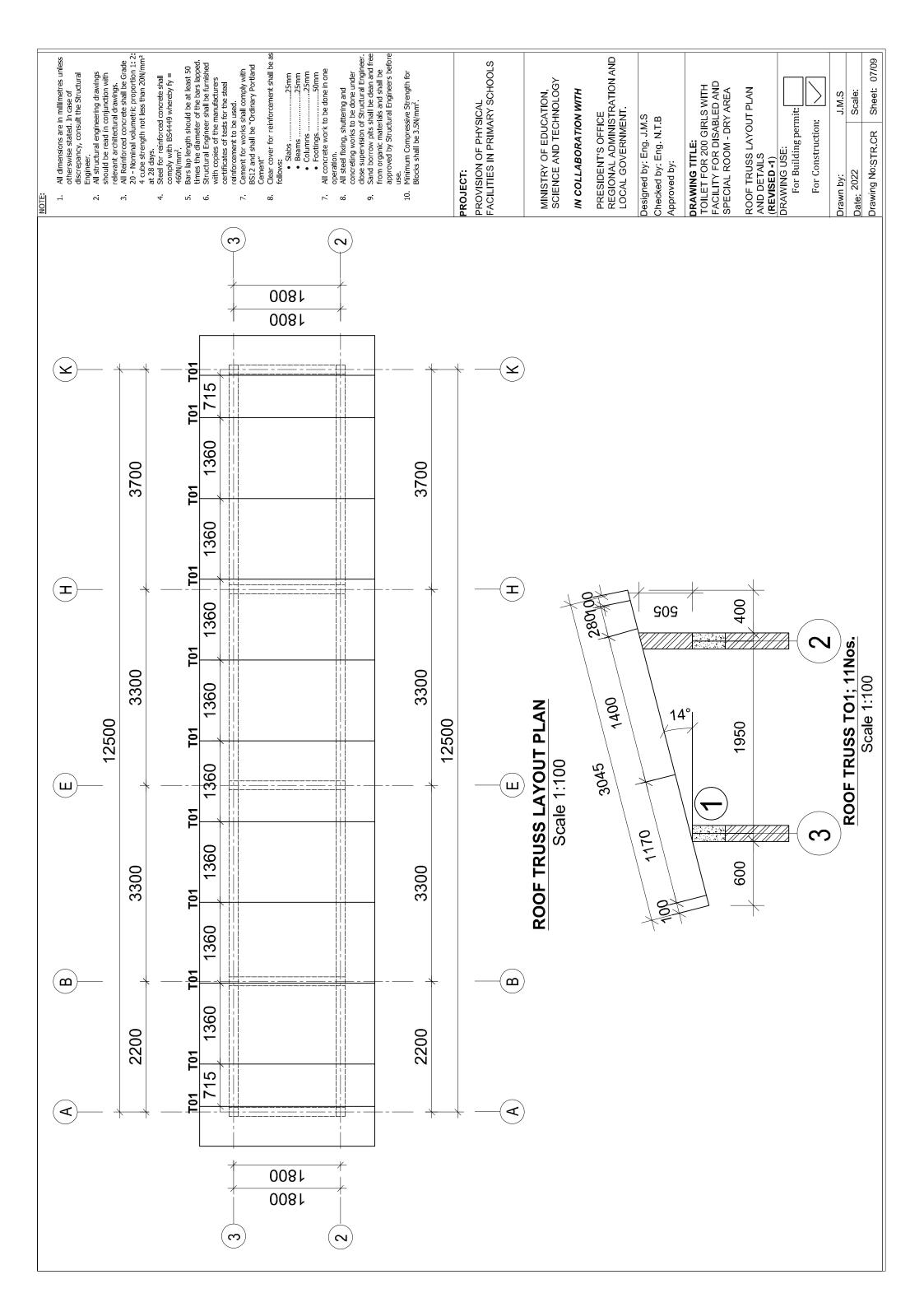
Drawn by:	J.M.S
Date: 2022	Scale:
Drawing No.STR.CR	Sheet: 02/09

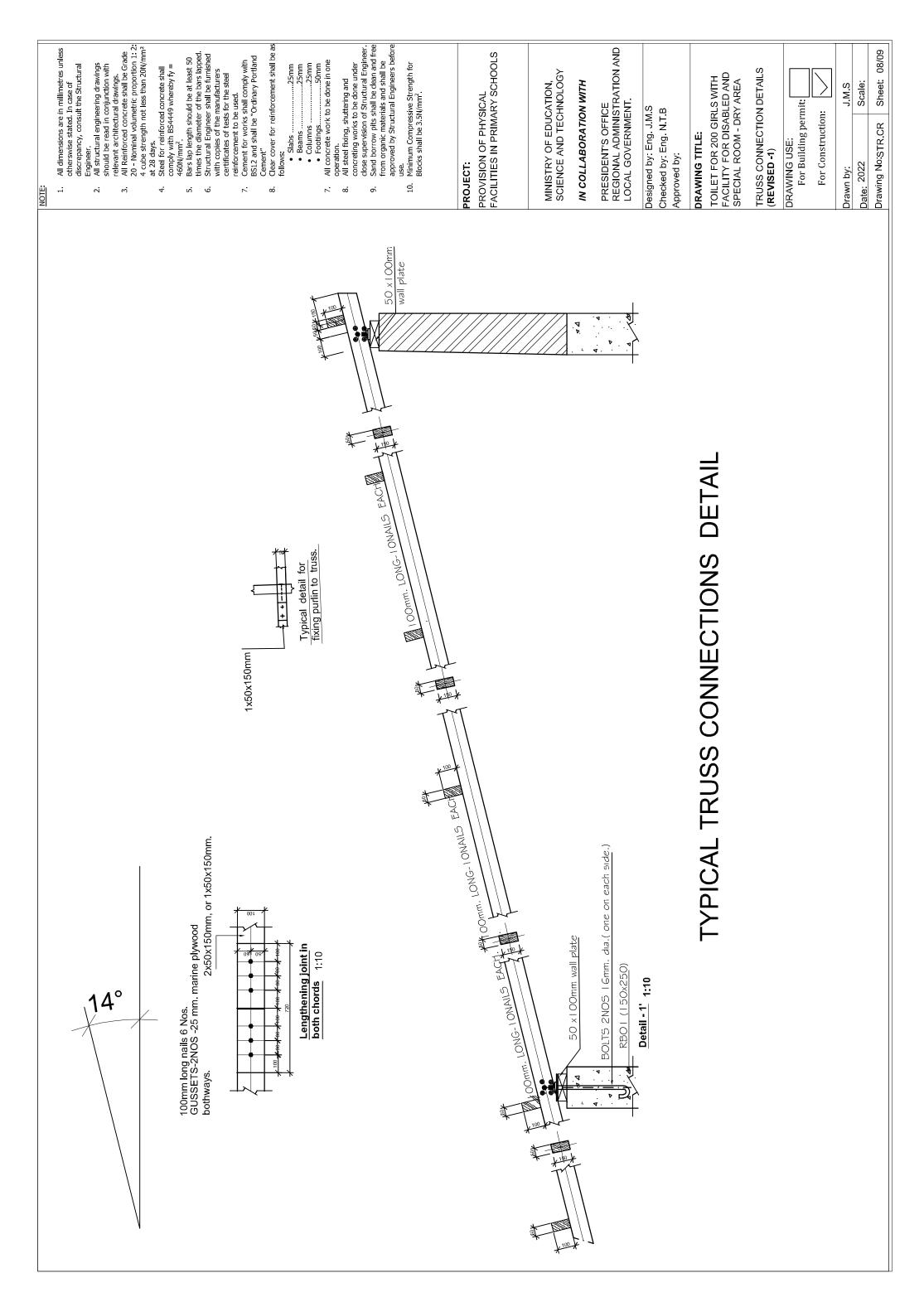












		NOTE																								
	IRY AREA	SKETCH OF BAR DIMENSIONS IN (mm)	10351	20 03 1 102 1	1450	20 E	- 1	20 S S S S S S S S S S S S S S S S S S S	11750	1200	1200	11750	20 ES	10921	180 K	4950	20 03 1 20 03 1 20 04 1	1020	50 50 180 180 180 180 180 180 180 180 180 18	+0921	180 CO	+ 0921	180 K	10921	1 1 20 P	3960
	PROVISION OF PHYSICAL FACILITIES FOR PRIMARY SCHOOLS- TOILET FOR 200 GIRLS WITH FACILITY FOR DISABLED AND SPECIAL ROOM - DRY AREA (PLINTH BEAMS)	TOTAL LENGTH (m)	94.8	107.52	7.8	5.76	11.4	10.56	24	3.5	3.5	24	59.52	8.6	40.32	21.8	23.04	14.2	13.44	7.4	5.76	14.2	13.44	51.6	55.68	
Schedule	ITIES FOR PR DISABLED AI 3EAMS)	NO. OF BARS	∞	112	4	9	4	1	2	2	2	2	62	4	42	4	24	4	4-	4	9	4	4	∞	28	
Bar Bending Schedule	PHYSICAL FACIL H FACILITY FOR (PLINTH E	LENGTH OF EACH BAR (mm)	11850	096	1950	096	2850	096	12000	1750	1750	12000	096	2150	096	5450	096	3550	096	1850	096	3550	096	6450	096	
	PROVISION OF P 200 GIRLS WIT	BAR TYPE AND SIZE (mm)	Y12	У8	Y12	У8	Y12	Y8	Y12	Y12	Y12	Y12	λ8	Y12	Y8	Y12	۸8 ۲8	Y12	Y8	Y12	λ8	Y12	Y8	Y12	Y8	
	LET FOR	MARK No.	10	02	10	02	10	02	10	05	03	40	05	10	02	10	02	10	02	10	02	10	02	10	02	
	<u>ο</u>	NUMBER OF MEMBER.	2	2	-	-	-	-	-	-	_	-	-	-	-	-	-	F	-	-	-	-	-	2	2	
9	Page 1/2 +	MEMBER TYPE	PLINTH BEAM PB01	PLINTH BEAM PB01	PLINTH BEAM PB02	PLINTH BEAM PB02	PLINTH BEAM PB03	PLINTH BEAM PB03	PLINTH BEAM PB04	PLINTH BEAM PB05	PLINTH BEAM PB05	PLINTH BEAM PB06	PLINTH BEAM PB06	PLINTH BEAM PB07	PLINTH BEAM PB07	PLINTH BEAM PB08	PLINTH BEAM PB08	PLINTH BEAM PB09	PLINTH BEAM PB09	PLINTH BEAM PB10	PLINTH BEAM PB10					

		NOTE																				
	DRY AREA	SKETCH OF BAR DIMENSIONS IN (mm)	1092	100 PE		11800	1450	1450	11800	100 × 100 ×	1950	100	3050	1200	11380	1800	3140	5850	1610			
	PROVISION OF PHYSICAL FACILITIES FOR PRIMARY SCHOOLS - TOILET FOR 200 GIRLS WITH FACILITY FOR DISABLED AND SPECIAL ROOM - DRY AREA (SLAB AND ROOF BEAMS)	TOTAL LENGTH (m)	25.8	27.84		48	9.9	9.9	48	86.8	37.6	25.2	325	67.2	277.44	16	26.72	24.4	14.48			
Bar Bending Schedule	ITIES FOR PR DISABLED AI OOF BEAMS)	NO. OF BARS	4	59		4	4	4	4	124	16	36	100	48	24	80	80	8	æ			
	PHYSICAL FACILIT H FACILITY FOR D (SLAB AND RO	LENGTH OF EACH BAR (mm)	6450	096		12000	1650	1650	12000	700	2350	700	3250	1400	11560	2000	3340	3050	1810			
	PROVISION OF I	BAR TYPE AND SIZE (mm)	Y12	٧8		Y12	Y12	Y12	Y12	У8	Y12	У8	Y10	Y10	Y10	Y10	Y10	Y10	Y10			
	LET FOR	MARK No.	10	02		01	02	03	40	90	10	02	01	02	03	04	05	90	20			
	T _O	NUMBER OF MEMBER.	~	-		2	2	2	2	2	4	4	1	F	~	٢	-	1	-			
	Page 2/2 -	MEMBER TYPE	PLINTH BEAM PB11	PLINTH BEAM PB11		ROOF RING BEAM RB01	ROOF RING BEAM RB02	ROOF RING BEAM RB02	SLAB	SLAB	SLAB	SLAB	SLAB	SLAB	SLAB							

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All dimensions are in millimetres unless otherswise stated. In case of discrepancy, consult the Structural Engineer.

All structural engineering drawings should be read in conjunction with relevant architectural drawings.

All Reinforced concrete shall be Grade 20 - Nominal volumetric proportion 1: 2: 4 cube strength not less than 201/mm² at 28 days.

Steel for reinforced concrete shall comply with BS4449 whereby fy = 4601/mm².

Steel for reinforced concrete shall comply with BS4449 whereby fy = 4601/mm².

Steel for teinforced steel be furnished with copies of the manufacturers certificates of tests for the steel reinforcement to be used.

Cement for works shall comply with BS12 and shall be "Ordinary Portland Cement".

Clear cover for reinforcement shall be as follows:

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PROJECT:

PROVISION OF PHYSICAL FACILITIES IN PRIMARY SCHOOLS

MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY

IN COLLABORATION WITH

PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT.

Designed by: Eng. J.M.S Checked by: Eng. N.T.B Approved by: DRAWING TITLE:
TOILET FOR 200 GIRLS WITH
FACILITY FOR DISABLED AND
SPECIAL ROOM - DRY AREA

BAR BENGING SCHEDULES FOR PLINTH AND ROOF RING BEAMS (REVISED -1)
DRAWING USE:

3 BEAMS			\geq
LINTH AND ROOF RING BEAMS (EVISED -1)	RAWING USE:	For Building permit	For Construction:

J.M.S	Scale:	:R Sheet: 09/09
Drawn by:	Date: 2022	Drawing No:STR.CR

				Bar Bendinç	g Schedul	e			
Page 1/2	PROVISION OF PHYSICAL FACILITIES FOR PRIMARY SCHOOLS - TOILET FOR 200 GIRLS WITH FACILITY FOR DISABLED AND SPECIAL ROOM - DRY AREA (PLINTH BEAMS)								
MEMBER TYPE	NUMBER OF MEMBER.	MARK No.	BAR TYPE AND SIZE (mm)	LENGTH OF EACH BAR (mm)	NO. OF BARS	TOTAL LENGTH (m)	SKETCH OF BADIMENSIONS IN		NOTE
PLINTH BEAM PB01	2	01	Y12	11850	8	94.8	11350	1250	
PLINTH BEAM PB01	2	02	Y8	960	112	107.52	50 50 00 180		
PLINTH BEAM PB02	1	01	Y12	1950	4	7.8	1450	1250+	
PLINTH BEAM PB02	1	02	Y8	960	6	5.76	50 50 00 180		
PLINTH BEAM PB03	1	01	Y12	2850	4	11.4	2350	1550	
PLINTH BEAM PB03	1	02	Y8	960	11	10.56	50 50 092 180		
PLINTH BEAM PB04	1	01	Y12	12000	2	24	11750		
PLINTH BEAM PB04	1	02	Y12	1750	2	3.5	1500	1250	
PLINTH BEAM PB04	1	03	Y12	1750	2	3.5	1500		
PLINTH BEAM PB04	1	04	Y12	12000	2	24	11750	750	
PLINTH BEAM PB04	1	05	Y8	960	62	59.52	50 50 50 180		
PLINTH BEAM PB05	1	01	Y12	2150	4	8.6	1650	1250	
PLINTH BEAM PB05	1	02	Y8	960	42	40.32	50 50 002 180		
PLINTH BEAM PB06	1	01	Y12	5450	4	21.8	4950	1250	
PLINTH BEAM PB06	1	02	Y8	960	24	23.04	50 50 092 1180		
PLINTH BEAM PB07	1	01	Y12	3550	4	14.2	3050	1250	
PLINTH BEAM PB07	1	02	Y8	960	14	13.44	50 50 092 180		
PLINTH BEAM PB08	1	01	Y12	1850	4	7.4	1350	1250	
PLINTH BEAM PB08	1	02	Y8	960	6	5.76	50 50 092 1180 L		
PLINTH BEAM PB09	1	01	Y12	3550	4	14.2	3050	1250	
PLINTH BEAM PB09	1	02	Y8	960	14	13.44	50 50 50 180		
PLINTH BEAM PB10	2	01	Y12	6450	8	51.6	5950	1250	
PLINTH BEAM PB10	2	02	Y8	960	58	55.68	50 50 50 180		
							3050		
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PROVISION OF PHYSICAL FACILITIES FOR PRIMARY SCHOOLS TOILET FOR 200 GIRLS WITH FACILITY FOR DISABLED AND SPECIAL ROOM - DRY AREA
(SLAB AND ROOF BEAMS)

	TOILET FOR 200 GIRLS WITH FACILITY FOR DISABLED AND SPECIAL ROOM - DRY AREA (SLAB AND ROOF BEAMS)									
MEMBER TYPE	NUMBER OF MEMBER.	No.	BAR TYPE AND SIZE (mm)	LENGTH OF EACH BAR (mm)	NO. OF BARS	TOTAL LENGTH (m)	SKETCH OF BAR DIMENSIONS IN (mm)	NOTE		
PLINTH BEAM PB11	1	01	Y12	6450	4	25.8	250+			
PLINTH BEAM PB11	1	02	Y8	960	29	27.84	50 052			
ROOF RING BEAM RB01	2	01	Y12	12000	4	48	11800			
ROOF RING BEAM RB01	2	02	Y12	1650	4	6.6	1450			
ROOF RING BEAM RB01	2	03	Y12	1650	4	6.6	1450			
ROOF RING BEAM RB01	2	04	Y12	12000	4	48	11800			
ROOF RING BEAM RB01	2	05	Y8	700	124	86.8	50 50 80 100			
ROOF RING BEAM RB02	4	01	Y12	2350	16	37.6	1950			
ROOF RING BEAM RB02	4	02	Y8	700	36	25.2	50			
SLAB	1	01	Y10	3250	100	325	3050			
SLAB	1	02	Y10	1400	48	67.2	1200			
SLAB	1	03	Y10	11560	24	277 <u>.</u> 44	11360			
SLAB	1	04	Y10	2000	8	16	1800			
SLAB	1	05	Y10	3340	8	26.72	3140			
SLAB	1	06	Y10	3050	8	24.4	2850			
SLAB	1	07	Y10	1810	8	14.48	1610			