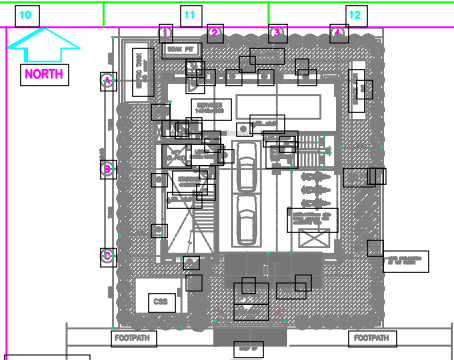


1ST FLOOR PLAN



KEY PLAN

- NOTES:**
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 2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL, PUBLIC HEALTH, ELECTRICAL AND STRUCTURAL DRAWINGS.
 3. PIPES SHALL BE HEAVY DUTY GI PIPE CLASS "B" CONFORMING TO IS 1239.
 4. UNDERGROUND PIPE SHALL BE COATED AND WRAPPED AS PER IS : 10221 WITH "PYROTE" WRAPPING COATING MATERIAL OF 4mm THICK.
 5. SLUICE VALVE SHALL BE CONFORMING TO IS : 780.
 6. THE DEPTH OF UNDERGROUND PIPE SHALL BE DECIDED AT SITE AS PER THE SITE CONDITION TO AVOID FOULING WITH OTHER SERVICES SUBJECT TO THE TOP OF THE U/O PIPE IS MINIMUM 1M BELOW FROM THE FGL.
 7. MINOR CHANGES IN THE PIPE ROUTING SHALL BE MADE TO SUIT SITE LOCATIONS WITHOUT EFFECTING DESIGN ASPECTS.
 8. MINOR CHANGES IN THE HYDRANT LOCATION SHALL BE MADE TO SUIT MACHINE/EQUIPMENT REQUIREMENT WITHOUT EFFECTING DESIGN ASPECTS.
 9. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND RESOLVED AT TENDER STAGE BEFORE COMMENCEMENT OF ANY WORK. NO FURTHER CLAIMS SHALL BE ENTERTAINED THEREAFTER.

LEGENDS:-

S.R. NO.	SYMBOL	DESCRIPTION
1.		150* GI CLASS "B" HYDRANT PIPE
2.		SINGLE HEADED SINGLE HEADED YARD HYDRANT
3.		FIRE HOSE BOX WITH SET OF HOSE
4.		BRANCH PIPE & NOZZLE
5.		RUBBER FIRE HOSE (63mm, 2Nos, 15m LENGTH)
6.		FIRE REEL, 920MM, 30M LONG
7.		GATE/SLUICE VALVE WITH CHAMBER
8.		CO2 4.5 Kg (CARBON DIOXIDE TYPE EXTINGUISHER)
9.		APFF 9.0 Ltrs (AQUEOUS FILM FORMING TYPE EXTINGUISHER)
10.		APFF 9.0 Ltrs (AQUEOUS FILM FORMING TYPE EXTINGUISHER)
11.		PENDENT SPRINKLER

NO.	ISSUE	DATE
1	ISSUED FOR TENDER	15-05-2020

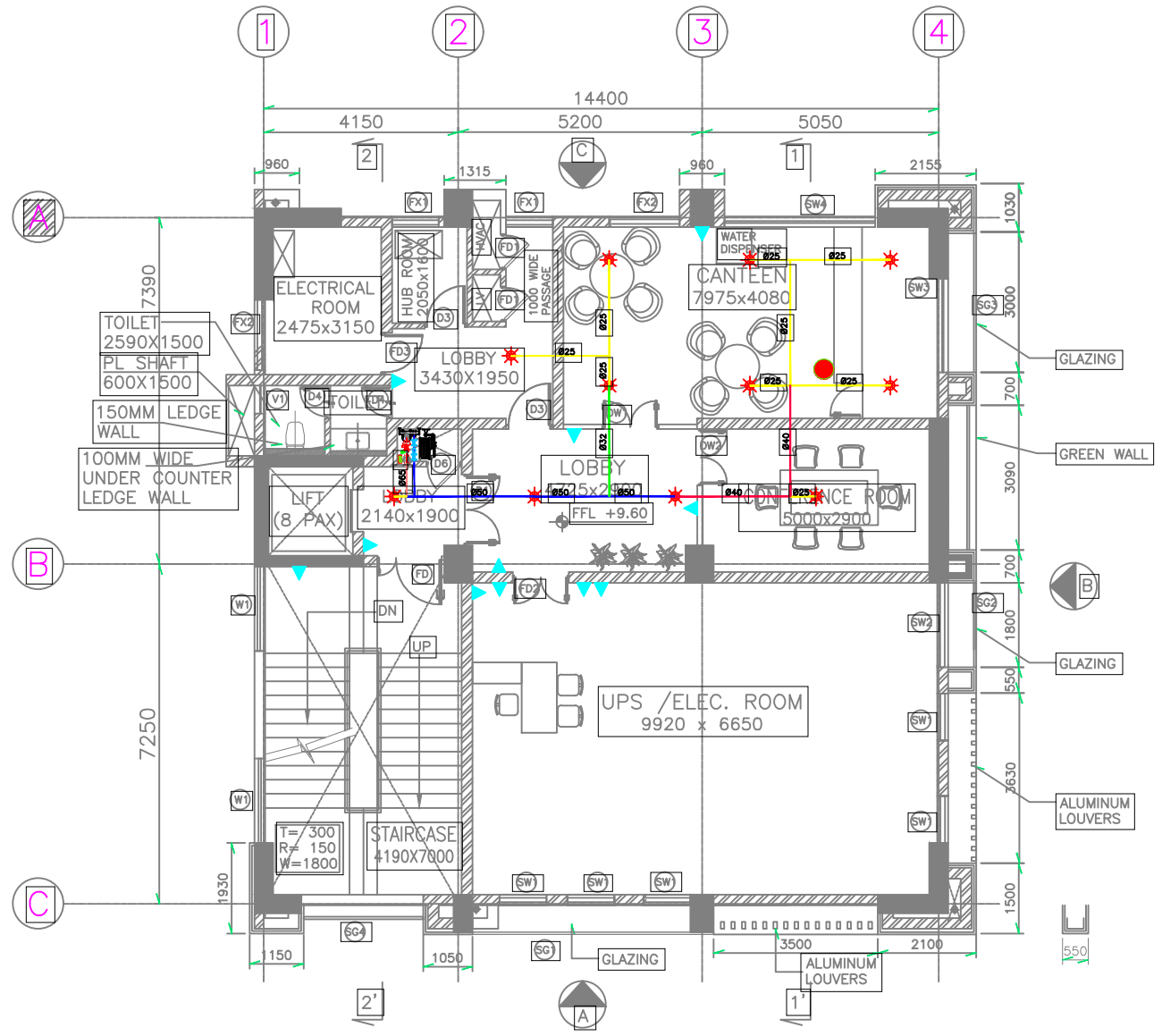
FOR TENDER PURPOSE ONLY
DO NOT SCALE

IF PRELIMINARY ISSUES ARE NOT TO BE USED FOR CONSTRUCTION / FABRICATION BUT ARE ISSUED FOR LIMITED PURPOSES ONLY AS INDICATED IN THE SMALL BLOCK ABOVE THIS BLOCK.
CONSTRUCTION / FABRICATION WORK IS PERMITTED ON ALL PRELIMINARY ISSUES ONLY.
INFORMATION CONTAINED WITHIN THIS DRAWING IS NOT RELEASED FOR CONSTRUCTION / FABRICATION FIELD MUST GET DESIGN OFFICE TO CLEAR HOLDS IN TIME BEFORE PROCEEDING WITH ANY CONSTRUCTION / FABRICATION WORK RELATED TO HOLDS.

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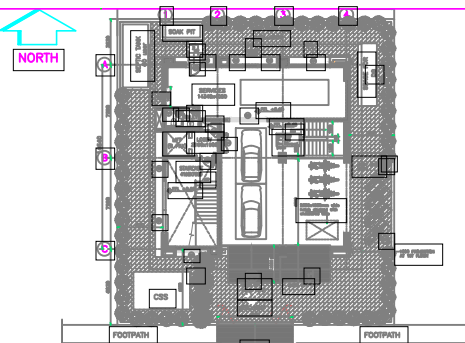
GUWAHATI SMART CITY LIMITED
FIRST FLOOR FPS LAYOUT

TATA CONSULTING ENGINEERS LIMITED
MUMBAI



2nd FLOOR PLAN

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DO NOT SCALE
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KEY PLAN

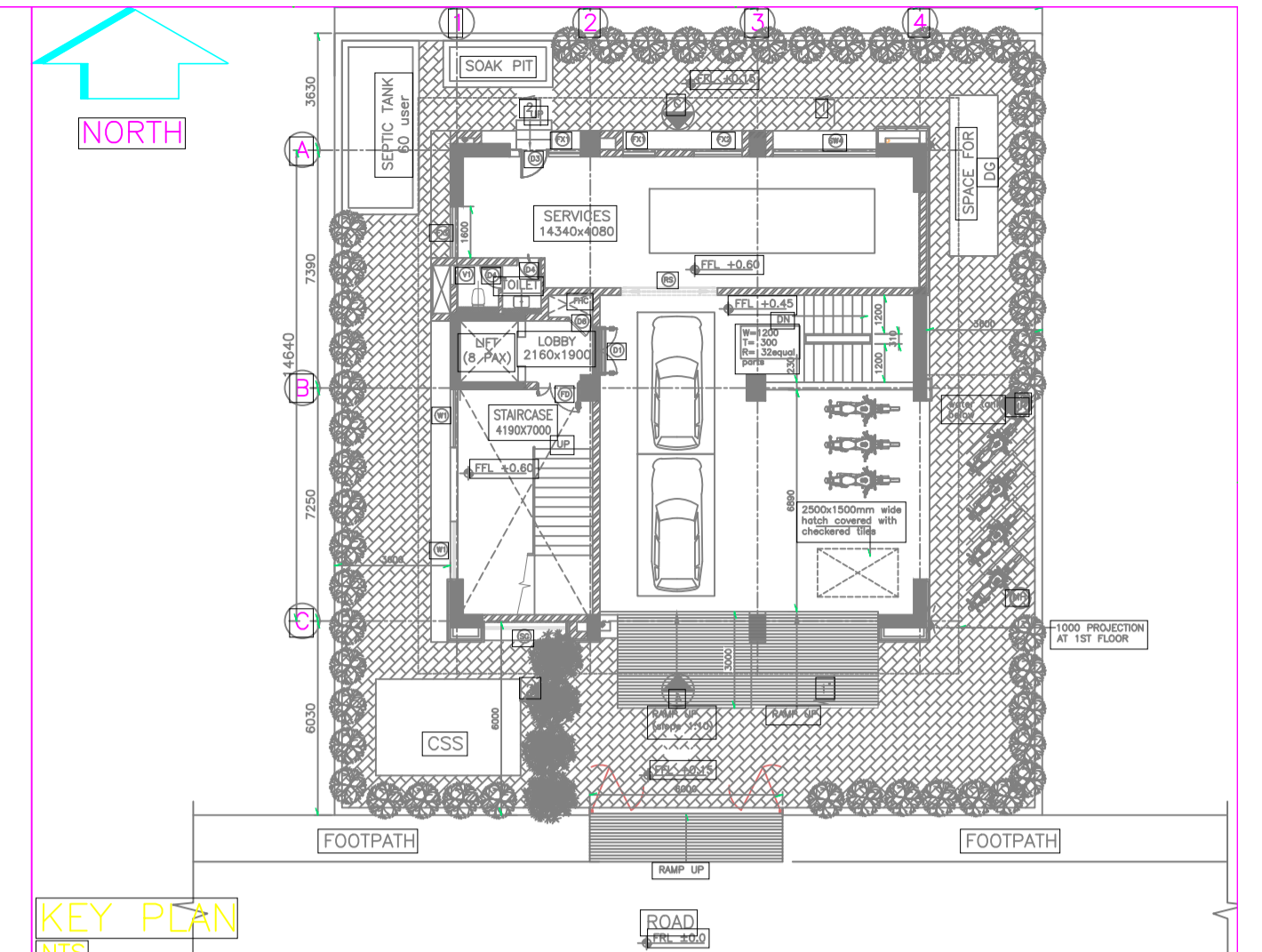
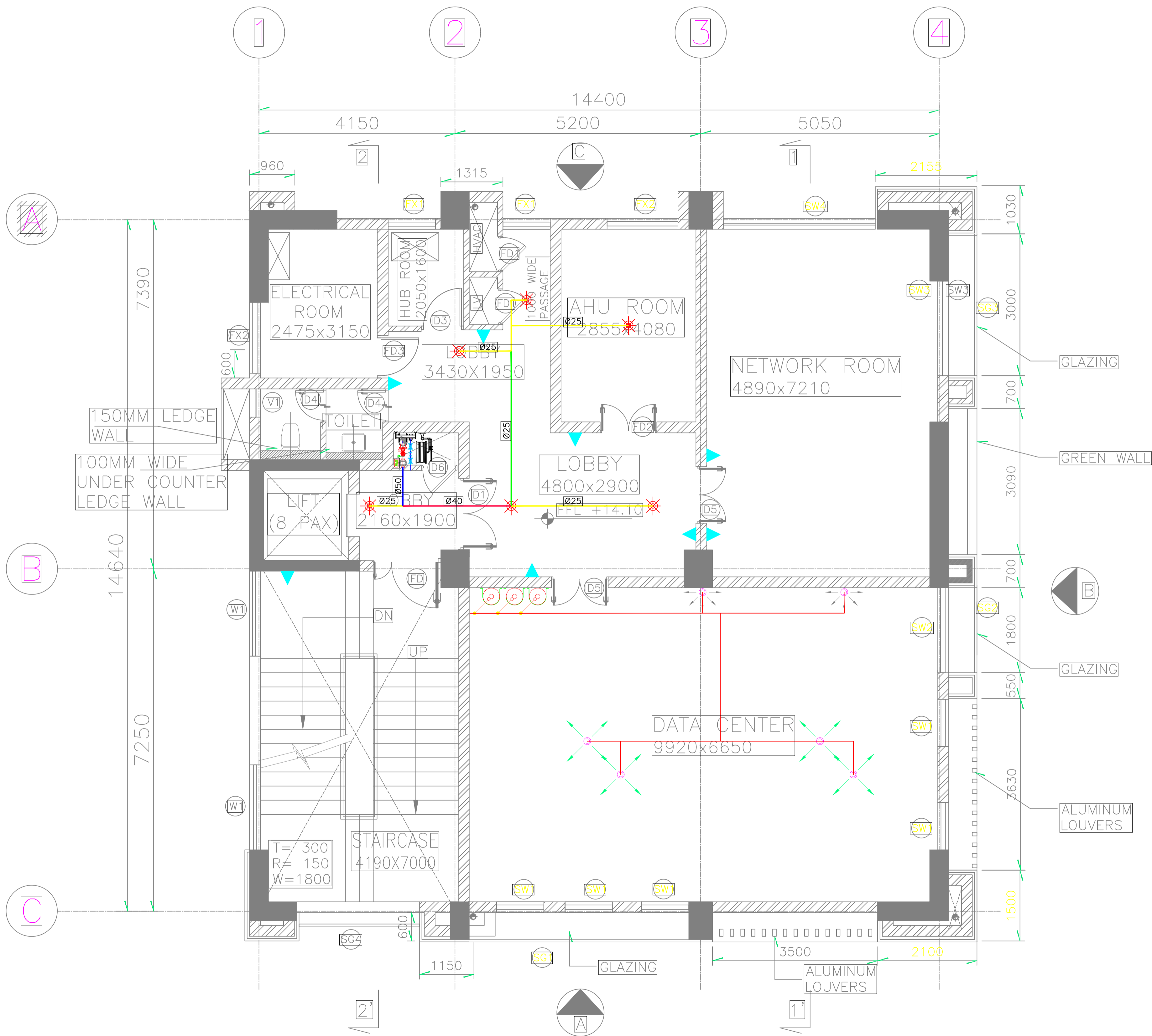
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LEGENDS:-

Sr. NO.	SYMBOL	DESCRIPTION
1.		150# GI CLASS "B" HYDRANT PIPE
2.		SINGLE HEADED
3.		SINGLE HEADED YARD HYDRANT
4.		FIRE HOSE BOX WITH SET OF HOSE
5.		BRANCH PIPE & NOZZLE
6.		RUBBER FIRE HOSE (ø63mm, 2Nos, 15m LENGTH)
7.		HOSE REEL, ø20MM, 30M LONG
8.		GATE/SLUICE VALVE WITH CHAMBER
9.		CO2 4.5 Kg (CARBON DIOXIDE TYPE EXTINGUISHER)
10.		AFFF 9.0 LTS. (AQUEOUS FILM FORMING FOAM TYPE EXTINGUISHER)
11.		PENDENT SPRINKLER

SR.	ISSUE	MR	MA	MM	CV	EL	IC	ME	PE/PM	APPD	DATE
13-08-2020											

GUWAHATI SMART CITY LIMITED
SECOND FLOOR FPS LAYOUT



KEY PLAN

NTS

NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
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LEGENDS:-

SR. NO.	SYMBOL	DESCRIPTION
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2.	[Symbol]	SINGLE HEADED
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11.	[Symbol]	PENDENT SPRINKLER

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ISSUE	DRN	DSN	CHD	CV	EL	IC	IME												
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FOR TENDER PURPOSE ONLY

DO NOT SCALE

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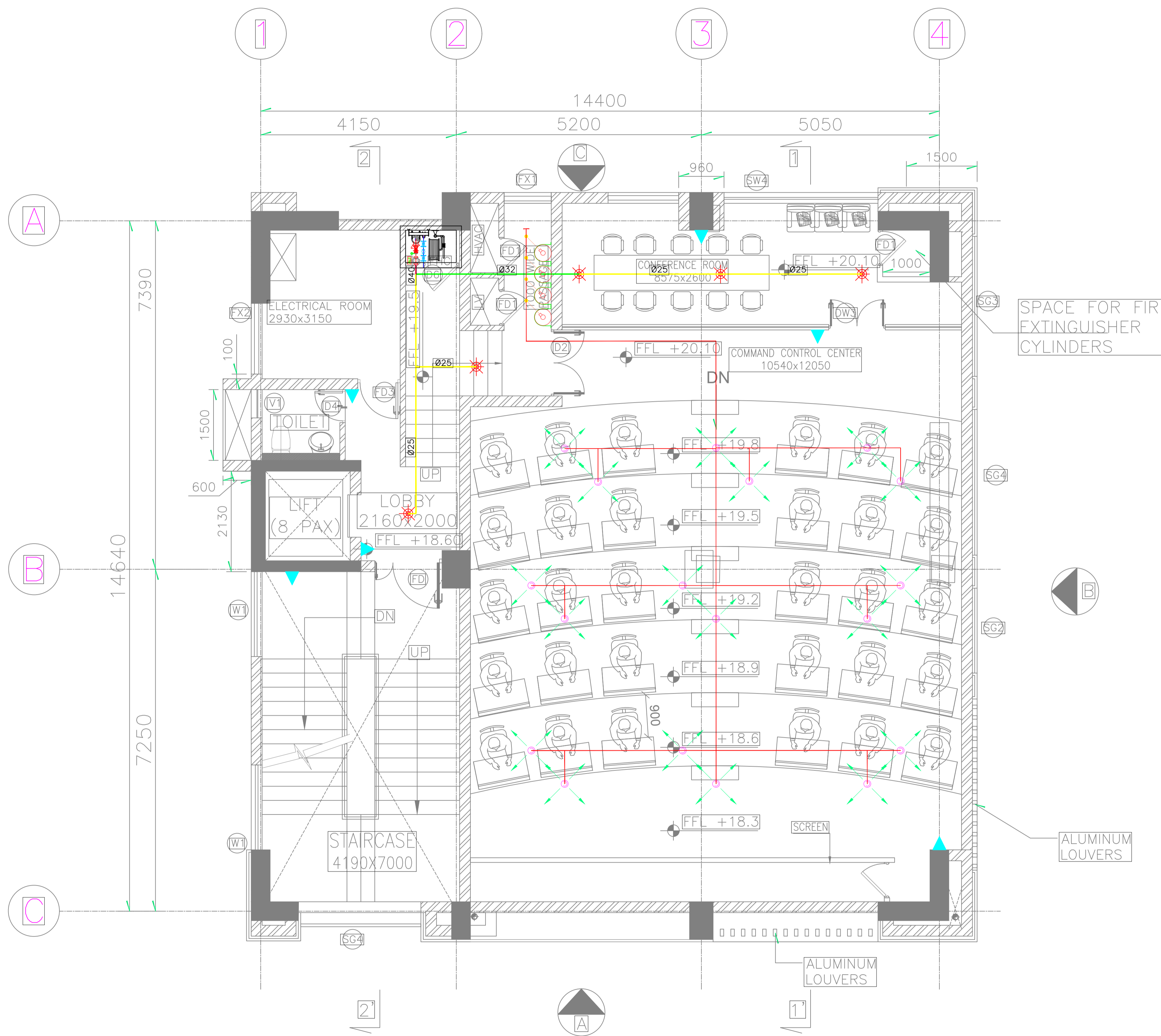
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GUWAHATI SMART CITY LIMITED

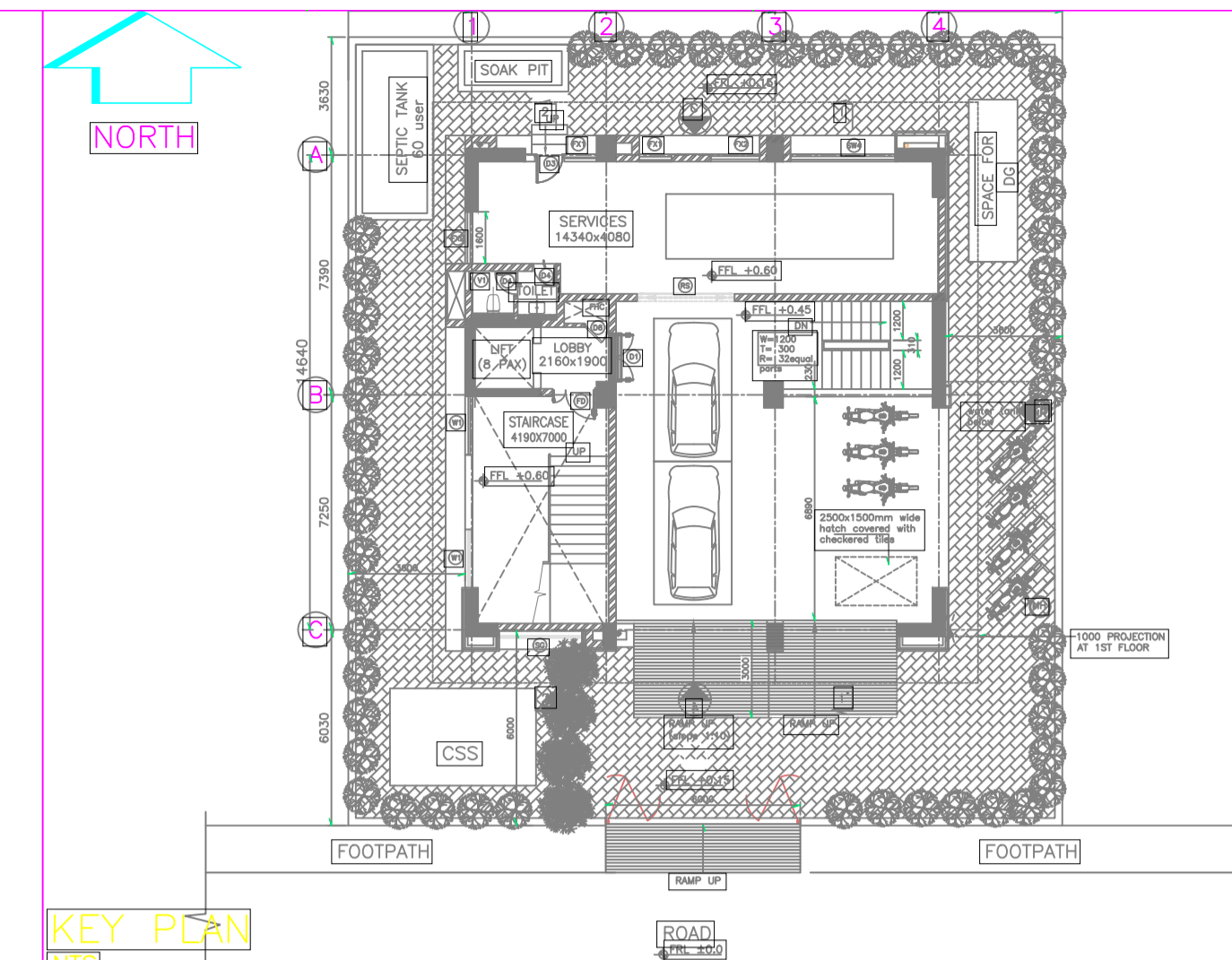
THIRD FLOOR FPS LAYOUT

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE: 1:50
DWG NO: TCE.10477A-ME-6041-FF-60104
DC & DISCH: PN-ME



4TH FLOOR PLAN



KEY PLAN

NOTES:

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LEGENDS:-

SR. NO.	SYMBOL	DESCRIPTION
1	[Symbol]	150ø GI CLASS "B" HYDRANT PIPE
2	[Symbol]	SINGLE HEADED
3	[Symbol]	SINGLE HEADED YARD HYDRANT
4	[Symbol]	FIRE HOSE BOX WITH SET OF HOSE
5	[Symbol]	BRANCH PIPE & NOZZLE
6	[Symbol]	RUBBER FIRE HOSE (ø63mm, 2Nos, 15m LENGTH)
7	[Symbol]	HOSE REEL, ø20MM, 30M LONG
8	[Symbol]	GATE/SLUICE VALVE WITH CHAMBER
9	[Symbol]	CO2 4.5 Kg (CARBON DIOXIDE TYPE EXTINGUISHER)
10	[Symbol]	AFFF 9.0 LTS. (AQUEOUS FILM FORMING FOAM TYPE EXTINGUISHER)
11	[Symbol]	PENDENT SPRINKLER
12	[Symbol]	NOZZLE
13	[Symbol]	NOVEC 1230 PIPING
14	[Symbol]	CYLINDER WITH STRAP

SIGN.	INITIALS	REVISIONS	SIGN.	INITIALS	REVISIONS	SIGN.	INITIALS	REVISIONS	SIGN.	INITIALS	REVISIONS	PO	SIGN.	INITIALS	MR	MA	MAM	CV	EL	IC	IME	PE/PM	APPD	DATE	
																									13-05-2020

FOR TENDER PURPOSE ONLY

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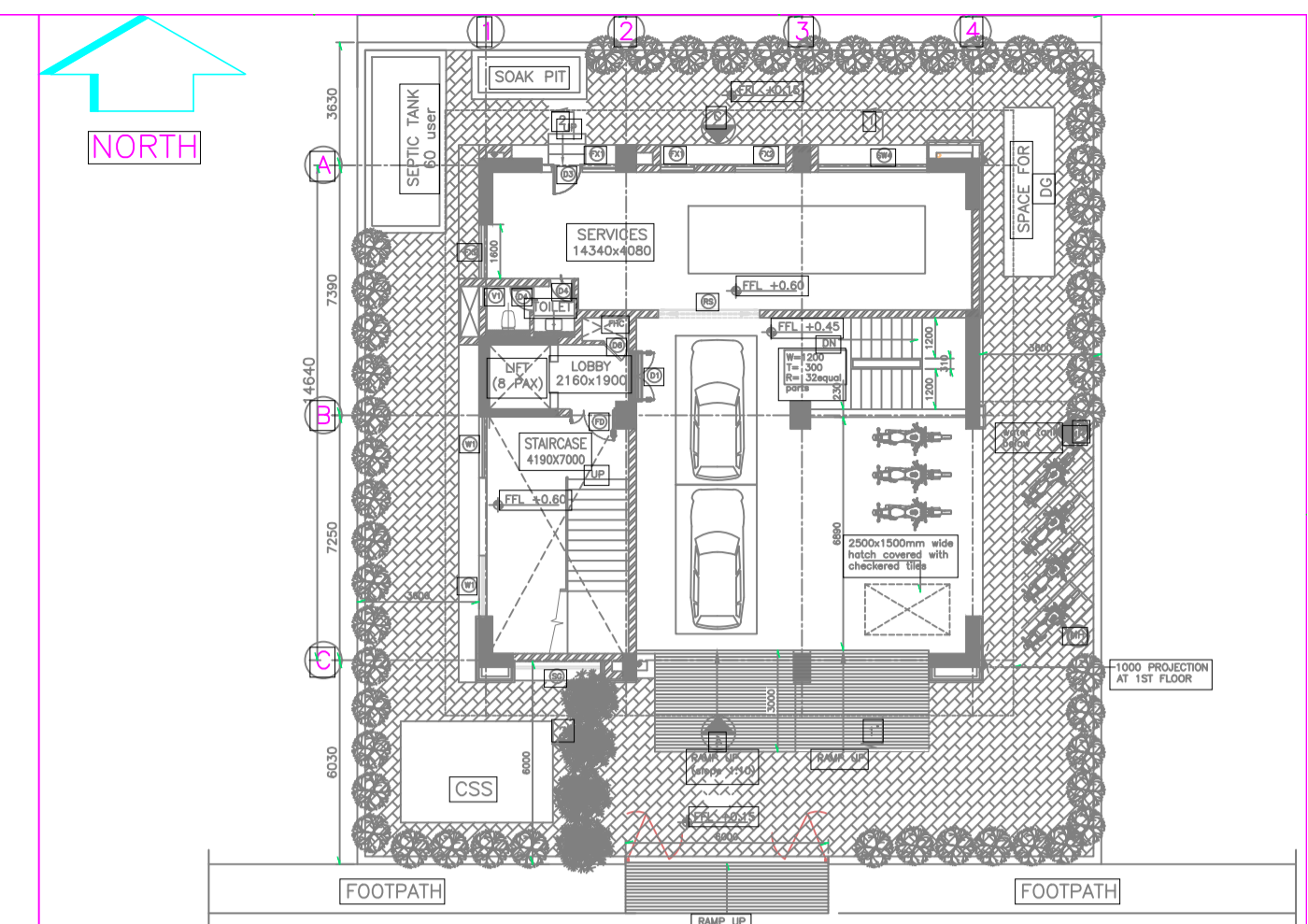
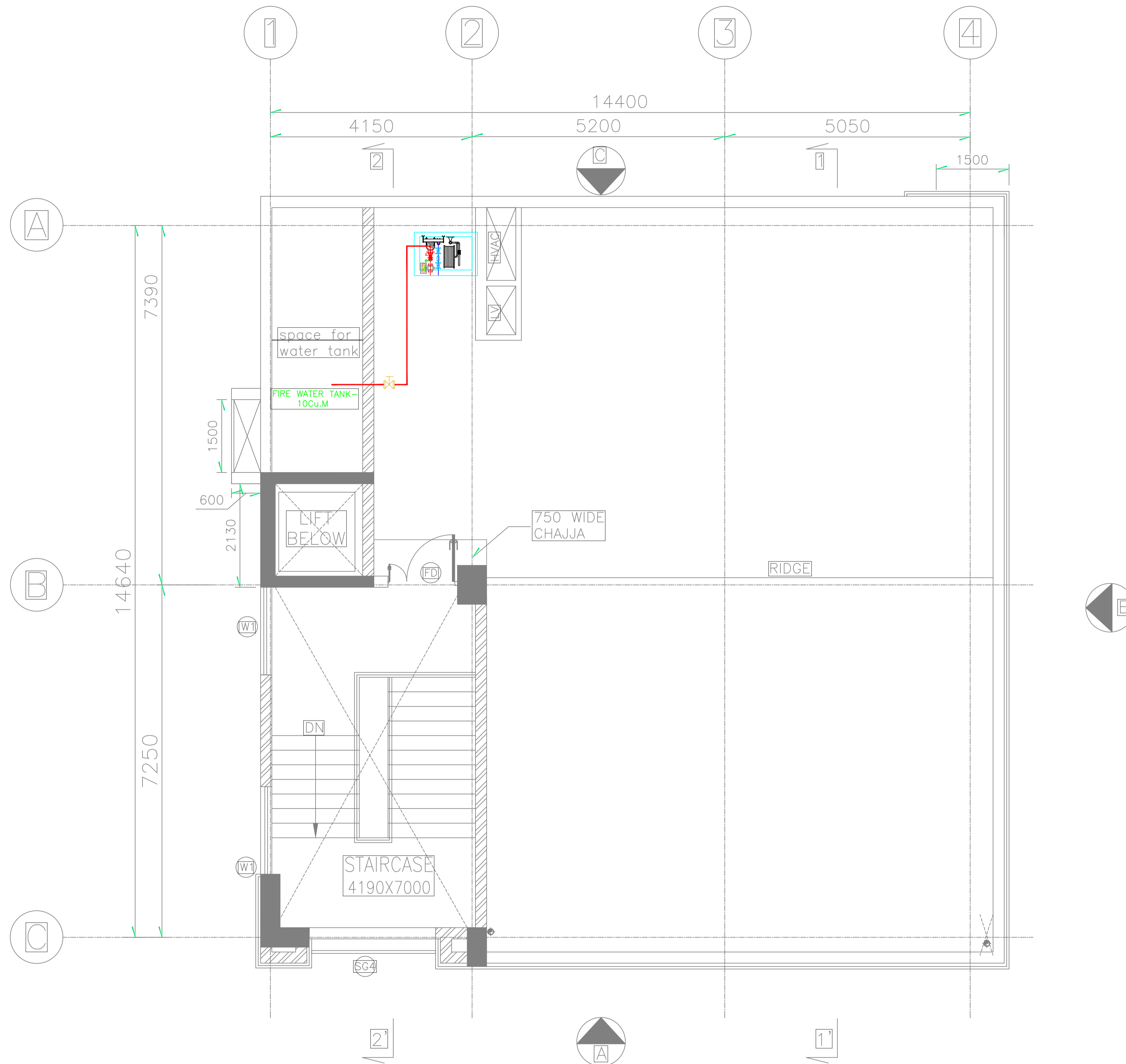
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FILE NAME: 10477A-ME-6041-FF-60105P0.dwg

GUWAHATI SMART CITY LIMITED
FOURTH FLOOR FPS LAYOUT

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE: 1:50 DWG NO: TCE.10477A-ME-6041-FF-60105 ISSUE: PO



KEY PLAN

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10.		AFFF 9.0 LTS. (AQUEOUS FILM FORMING FOAM TYPE EXTINGUISHER)
11.		PENDENT SPRINKLER

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REVISIONS											
PO SIGN.										13-05-2020	
INITIALS	MR	MA	MAM								
ISSUE	DRN	DSN	CHD	CV	EL	IC	IME		PE/PM	APPD	DATE

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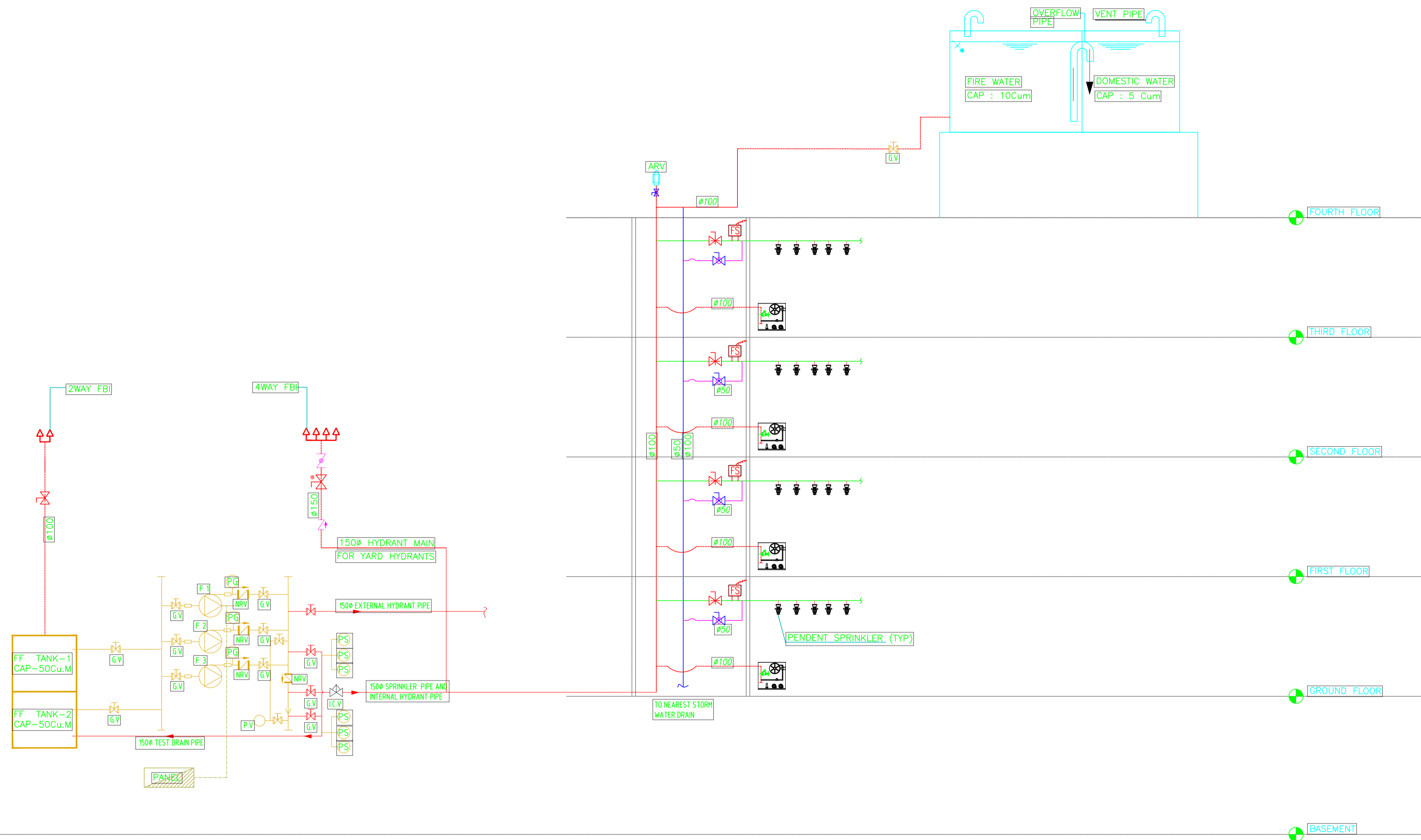
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GUWAHATI SMART CITY LIMITED

FOURTH FLOOR FPS LAYOUT

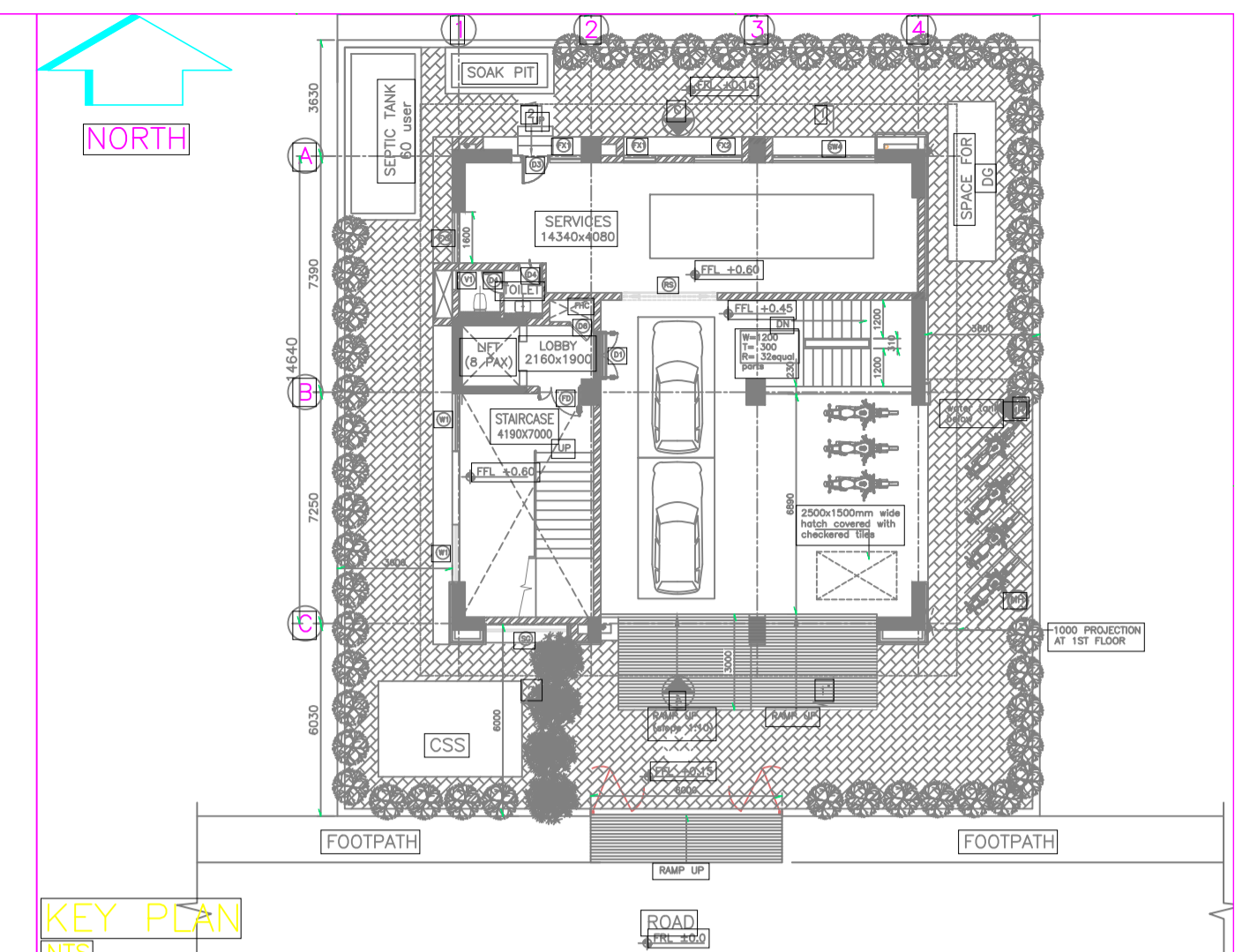
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MUMBAI

SCALE: 1:50 DWG NO: TCE.10477A-ME-6041-FF-60105 ISSUE: PO



FIRE HYDRANT AND SPRINKLER SCHEMATIC DIAGRAM

FIRE PUMP DETAILS			
	DESCRIPTION	DISCHARGE (LPM)	HEAD (M)
F1	ELECTRICAL MOTOR DRIVEN MAIN FIRE PUMP	2280	70
F2	DIESEL ENGINE DRIVEN STANDBY FIRE PUMP	2280	120
F3	JOCKEY PUMP	180	120



KEY PLAN

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LEGENDS:-

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3.	[Symbol]	BRANCH PIPE & NOZZLE
4.	[Symbol]	RUBBER FIRE HOSE (ø63mm, 2Nos, 15m LENGTH)
5.	[Symbol]	HOSE REEL, ø20MM, 30M LONG
6.	[Symbol]	NON RETURN VALVE
7.	[Symbol]	FIRE PUMPS
8.	[Symbol]	Y-STRAINER
9.	[Symbol]	PENDENT SPRINKLER
10.	[Symbol]	PRESSURE GAUGE
11.	[Symbol]	PRESSURE SWITCH

SIGN.	INITIALS	REVISIONS	SIGN.	INITIALS	REVISIONS	SIGN.	INITIALS	REVISIONS	SIGN.	INITIALS	REVISIONS	DATE
												13-05-2020
PO			MR	MA	MAM							
ISSUE	DRN	DSN	CHD	CV	EL	IC	IME		PE/PM	APPD		DATE

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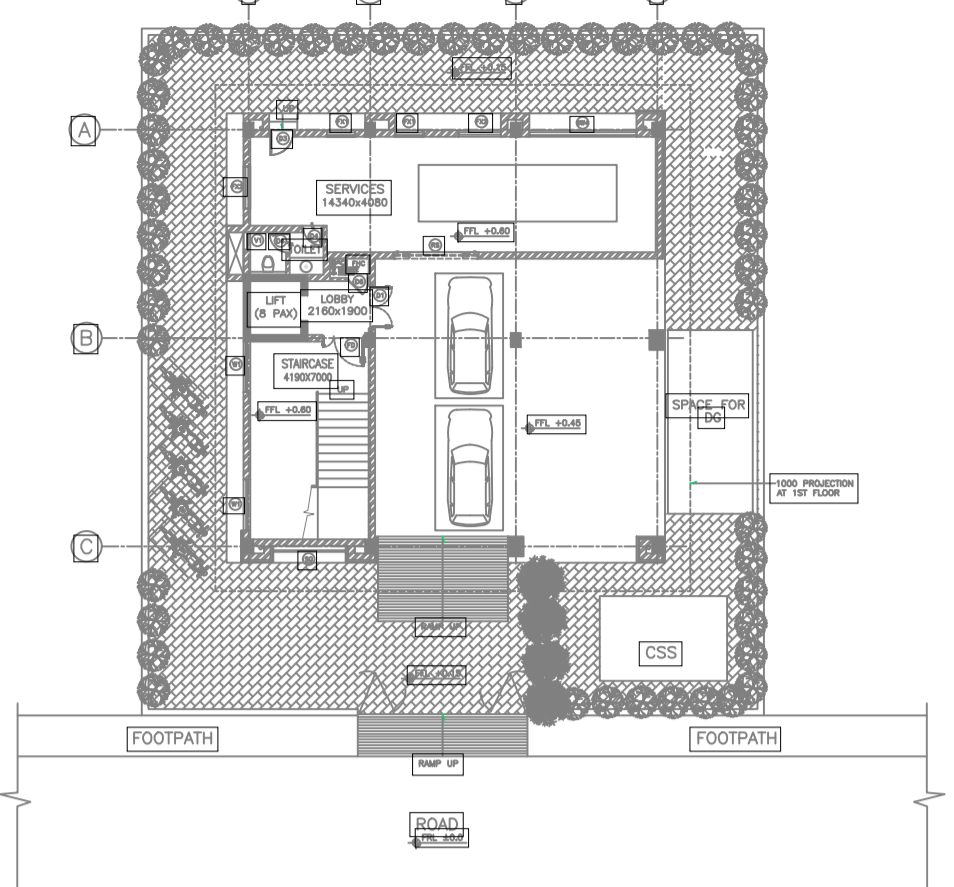
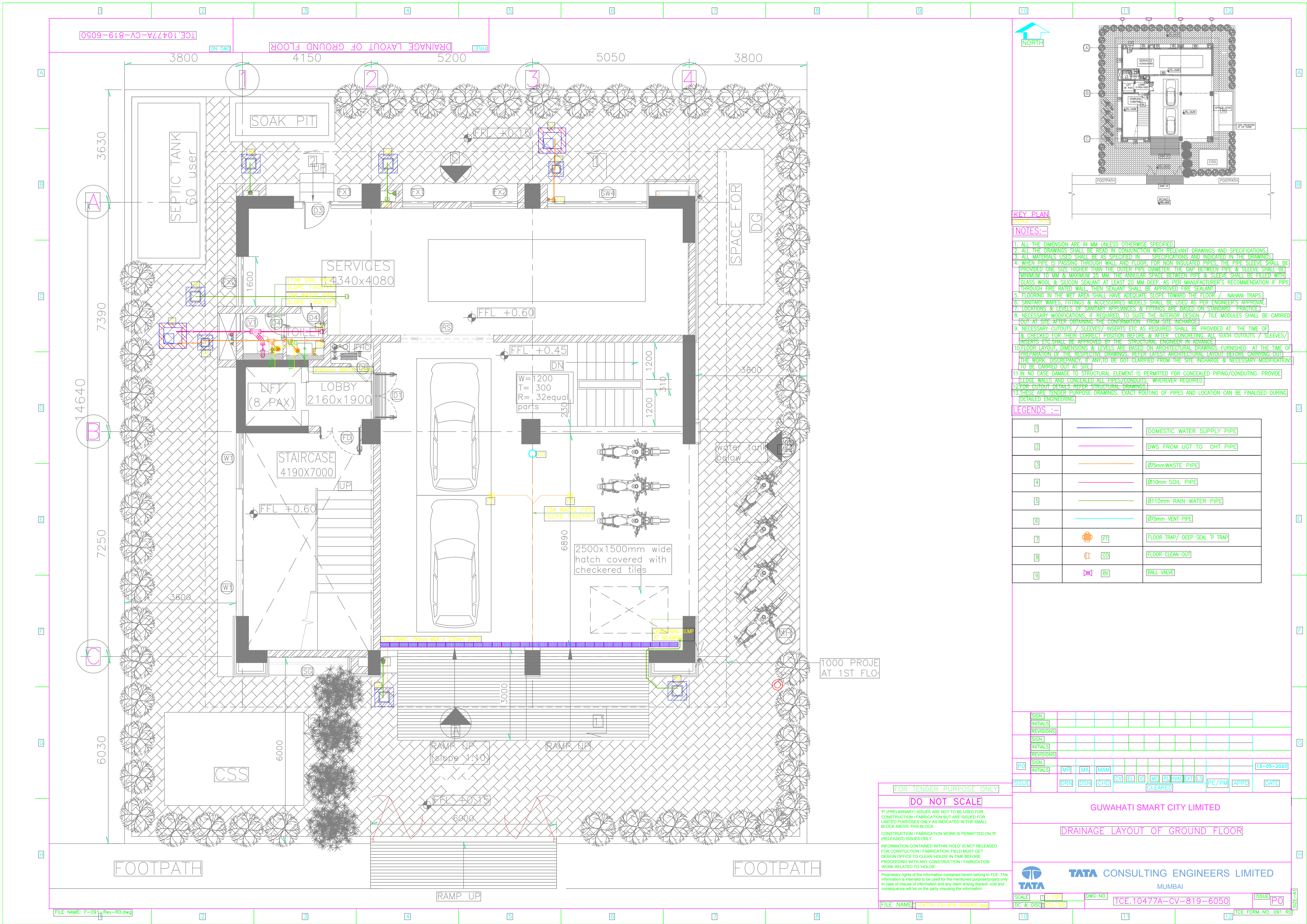
GUWAHATI SMART CITY LIMITED

HYDRANT AND SPRINKLER SCHEMATIC

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE: 1:100 DWG NO: TCE.10477A-ME-6041-FF-60106 ISSUE: PO

PLUMBING DRAWINGS



KEY PLAN
SCALE - NTS

NOTES:-

- ALL THE DIMENSION ARE IN MM UNLESS OTHERWISE SPECIFIED.
- ALL THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT DRAWINGS AND SPECIFICATIONS.
- ALL MATERIALS USED SHALL BE AS SPECIFIED IN THE SPECIFICATIONS AND INDICATED IN THE DRAWINGS.
- WHEN PIPE IS PASSING THROUGH WALL AND FLOOR FOR NON INSULATED PIPES, THE PIPE SLEEVE SHALL BE PROVIDED ONE SIZE HIGHER THAN THE OUTER PIPE DIAMETER. THE GAP BETWEEN PIPE & SLEEVE SHALL BE MINIMUM 10 MM & MAXIMUM 25 MM. THE ANNULAR SPACE BETWEEN PIPE & SLEEVE SHALL BE FILLED WITH GLASS WOOL & SILICON SEALANT AT LEAST 20 MM DEEP, AS PER MANUFACTURER'S RECOMMENDATION IF PIPE THROUGH FIRE RATED WALL, THEN SEALANT SHALL BE APPROVED FIRE SEALANT.
- FLOORING IN THE WET AREA SHALL HAVE ADEQUATE SLOPE TOWARD THE FLOOR / NAHANI TRAPS.
- SANITARY WARES, FITTINGS & ACCESSORIES MODELS SHALL BE USED AS PER ENGINEER'S APPROVAL.
- LOCATIONS & LEVELS OF SANITARY APPLIANCES & FITTINGS ARE BASED ON STANDARD PRACTICE.
- NECESSARY MODIFICATIONS, IF REQUIRED, TO SUITE THE INTERIOR DESIGN / TILE MODULES SHALL BE CARRIED OUT AT SITE AFTER OBTAINING THE CONFIRMATION FROM SITE INCHARGE.
- NECESSARY CUTOUTS / SLEEVES / INSERTS ETC AS REQUIRED SHALL BE PROVIDED AT THE TIME OF CONCRETING & CHECKED FOR THEIR CORRECT POSITION BEFORE & AFTER CONCRETING. ALL SUCH CUTOUTS / SLEEVES / INSERTS ETC SHALL BE APPROVED BY THE STRUCTURAL ENGINEER IN ADVANCE.
- FLOOR LAYOUT, DIMENSIONS & LEVELS ARE BASED ON ARCHITECTURAL DRAWINGS FURNISHED AT THE TIME OF PREPARATION OF THE RESPECTIVE DRAWINGS. REFER LATEST ARCHITECTURAL LAYOUT BEFORE CARRYING OUT THE WORK. DISCREPANCY, IF ANY, TO BE GOT CLARIFIED FROM THE SITE INCHARGE & NECESSARY MODIFICATIONS TO BE CARRIED OUT AT SITE.
- IN NO CASE DAMAGE TO STRUCTURAL ELEMENT IS PERMITTED FOR CONCEALED PIPING/CONDUITING. PROVIDE LEDGE WALLS AND CONCEALED ALL PIPES/CONDUITS WHEREVER REQUIRED.
- FOR CUTOUT DETAILS REFER STRUCTURAL DRAWINGS.
- THESE ARE TENDER PURPOSE DRAWINGS. EXACT ROUTING OF PIPES AND LOCATION CAN BE FINALISED DURING DETAILED ENGINEERING.

LEGENDS :-

1		DOMESTIC WATER SUPPLY PIPE
2		DWS FROM UGT TO OHT PIPE
3		Ø75mm WASTE PIPE
4		Ø110mm SOIL PIPE
5		Ø110mm RAIN WATER PIPE
6		Ø75mm VENT PIPE
7		FLOOR TRAP / DEEP SEAL 'P' TRAP
8		FLOOR CLEAN OUT
9		BALL VALVE

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REVISIONS																		
SIGN.																		
INITIALS																		
PK																		
INITIALS	MR	MA	MAM															13-05-2020
ISSUE	DRN	DSN	CHD	CV	EL	TC	ME	PL	MAC	EXT	LS							

FOR TENDER PURPOSE ONLY

DO NOT SCALE

P (PRELIMINARY) ISSUES ARE NOT TO BE USED FOR CONSTRUCTION / FABRICATION BUT ARE ISSUED FOR LIMITED PURPOSES ONLY AS INDICATED IN THE SMALL BLOCK ABOVE THIS BLOCK.

CONSTRUCTION / FABRICATION WORK IS PERMITTED ON 'R' (RELEASED) ISSUES ONLY.

INFORMATION CONTAINED WITHIN 'HOLD' IS NOT RELEASED FOR CONSTRUCTION / FABRICATION. FIELD MUST GET DESIGN OFFICE TO CLEAR 'HOLD' IN TIME BEFORE PROCEEDING WITH ANY CONSTRUCTION / FABRICATION WORK RELATED TO 'HOLD'.

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