

TYPICAL FIRE ALARM SECTION

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4. THIS DRAWING SHALL SUPERSEDE ITS PREVIOUS REVISIONS.
5. ALL LEVELS SHALL BE CROSS CHECKED WITH THE ARCHITECT BEFORE STARTING ON SITE.
6. ALL BRICK WALLS ARE 200/100 MM THK. UNLESS OTHERWISE SPECIFIED.
7. ALL JUNCTIONS BETWEEN CONCRETE AND ANY OTHER MATERIAL TO BE PLASTERED ONLY AFTER FIXING CHICKEN MESH.
8. EMBEDDED PLATE SHALL BE PROVIDED AT UNTEL LVL. WHERE DOOR / WINDOW IS ADJOINING TO COLUMN.
9. PERIPHERAL PLINTH PROTECTION AS / TENDER ITEM.
10. ALL DIM. ARE IN MM.

LEGEND

	MANUAL CALL POINT
	HOOTER
	HOSE REEL
	M.S. HYDRANT PIPE
	SINGLE HEADED HYDRANT VALVE
	BUTTER FLY VALVE
	CO2 TYPE FIRE EXT
	ABC STORED PRESUURE FE
	MECHANICAL FOAM TYPE FE
	WATER CO2 TYPE FIRE EXT
	2-WAY FIRE BRIDGE CONNECTION

PROJECT: HOUSING FOR ALL UNDER PRADHAN MANTRI AWAS YOJNA (PMAY), INDORE

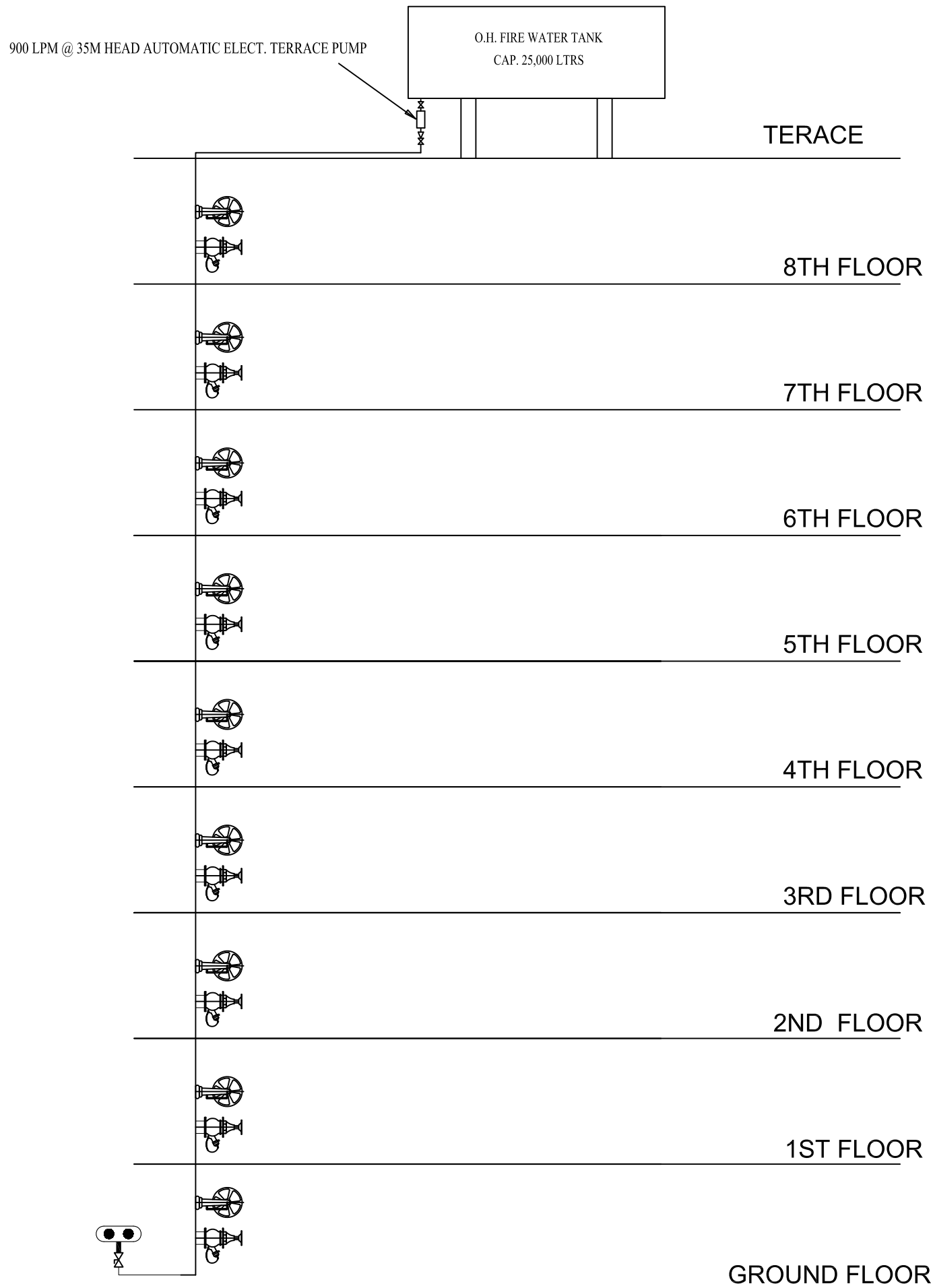
CLIENT: INDORE MUNICIPAL CORPORATION

DRAWING: FIRE ALARM SECTION DETAIL - EWS BLOCK (KANADIYA EXTENSION)

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SCALE	NTS	DRAWN BY		FF-06
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TYPICAL FIRE FIGHTING HYDRANT SYSTEM SECTION

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9. PERIPHERAL PLINTH PROTECTION AS / TENDER ITEM.
10. ALL DIM. ARE IN MM.

LEGEND

	MANUAL CALL POINT
	HOOTER
	HOSE REEL
	M.S. HYDRANT PIPE
	SINGLE HEADED HYDRANT VALVE
	BUTTER FLY VALVE
	CO2 TYPE FIRE EXT
	ABC STORED PRESUURE FE
	MECHANICAL FOAM TYPE FE
	WATER CO2 TYPE FIRE EXT
	2-WAY FIRE BRIDGE CONNECTION

PROJECT: HOUSING FOR ALL UNDER PRADHAN MANTRI AWAS YOJNA (PMAY), INDORE

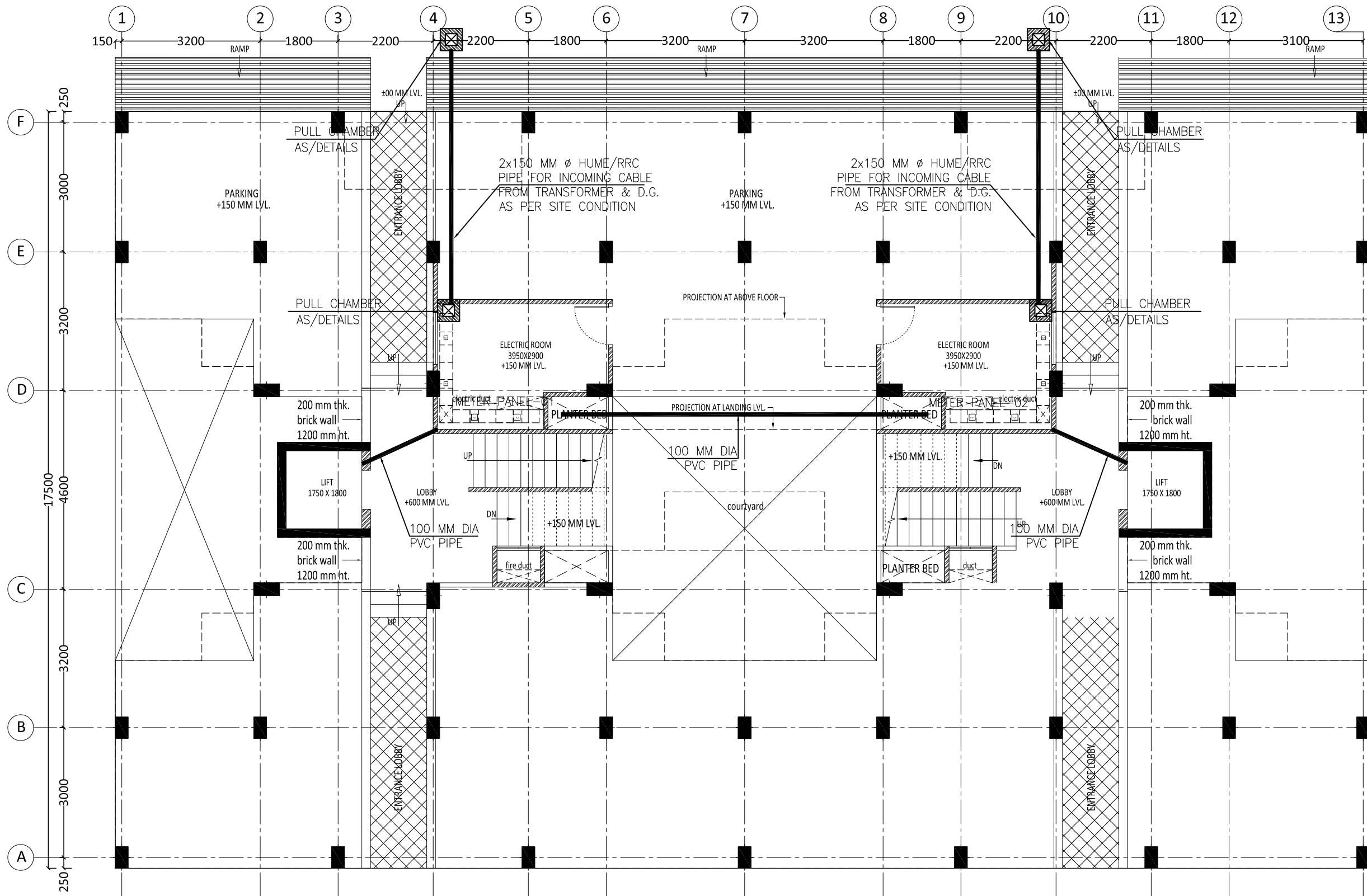
CLIENT: INDORE MUNICIPAL CORPORATION

DRAWING: HYDRANT SECTION DETAIL - EWS BLOCK (KANADIYA EXTENSION)

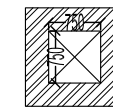
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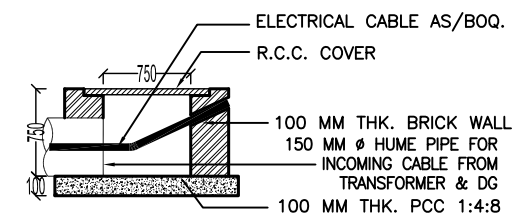
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STILT FLOOR PLAN



PULL CHAMBER FOR ELECTRIC CABLE
SIZE-750MMX750MMX750MM



TYP. SECTION OF PULL CHAMBER FOR ELECTRIC
CABLE SIZE-750MMX750MMX750MM

PROJECT: HOUSING FOR ALL UNDER PRADHAN MANTRI AWAS YOJNA
MANPUR SITE (PMAY), INDORE

CLIENT: INDORE MUNICIPAL CORPORATION

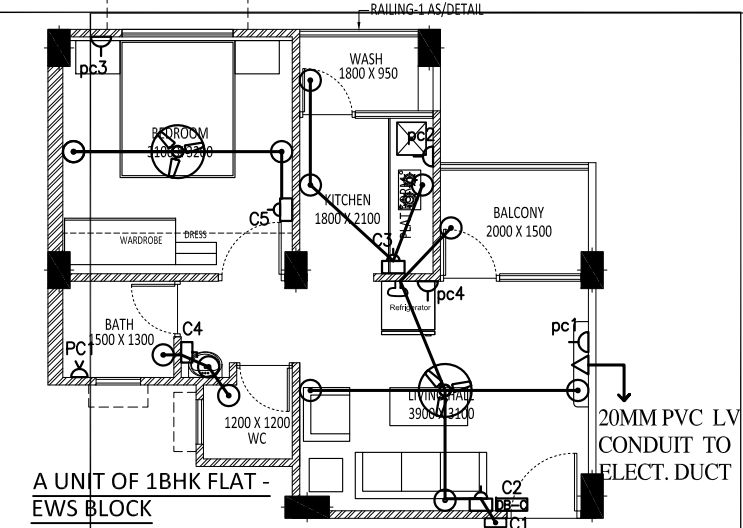
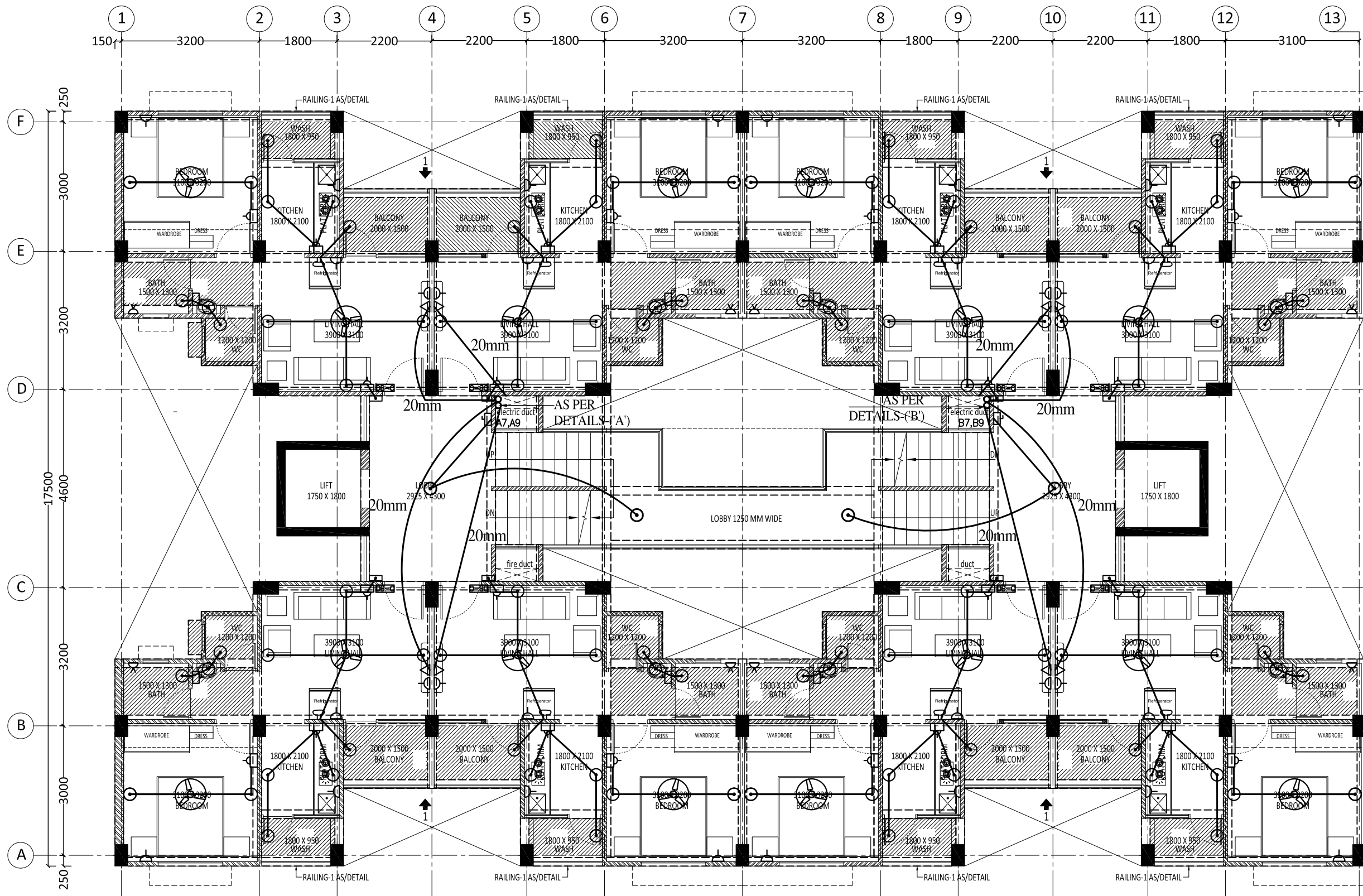
DRAWING: SLEEVE DETAIL FOR ELECTRICAL CABLE AT STILT FLOOR
(PARKING) - EWS BLOCK (KANADIYA EXTENSION)

DATE	CHECKED BY	DRG. NO.
SCALE	DRAWN BY	E-01
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TYPICAL (1st, 3rd, 5th & 7th) FLOOR PLAN

MOUNTING HEIGHTS		
SL.NO	DESCRIPTION	HEIGHT FROM FINISHED FLOOR LEVEL (Reference to bottom)
1	SB DISTANCE FROM EDGE OF WALL NEAR DOOR	150MM
2	POINT FOR EXHAUST FAN	2400MM
3	TOILET SWITCH BOARD	1200MM
4	GEYSER SOCKET	2100MM/AS PER SIDE CONDITION
5	GEYSER SOCKET CONTROL	1200MM/AS PER SIDE CONDITION
6	SOCKET FOR REFRIGERATOR	1200MM
7	SWITCHES & SOCKETS IN LIVING DINING & GENERAL AREAS	1200MM
8	CALL BELL SWITCH/VDP-OUTDOOR	1200MM
9	BUZZER/VDP-INDOOR	2100MM
10	ALL WALL LIGHT POINTS	2400MM
11	BOTTOM OF DB	2100MM/AS PER SIDE CONDITION
12	SOCKETS AND SWITCH BOARD FOR STUDY TABLE	900MM
13	TV OUTLET AND ANY OTHER SOCKETS IN THE BEDROOMS	900MM
14	TV AND SOCKETS IN LIVING AND DINING AREAS	1200MM
15	SOCKETS IN THE KITCHEN	300MM ABOVE KITCHEN PLATFORM

CAPACITY OF CONDUITS FOR WIRES			
SIZE OF WIRES	MAXIMUM NUMBER OF WIRES		
	20MM/3/4"	25MM/1"	32MM/1-1/4"
DIA OF CONDUIT	20MM/3/4"	25MM/1"	32MM/1-1/4"
C.S.A OF WIRES IN SQMM			
1.5SQMM	5	10	18
2.5SQMM	5	8	12
4 SQMM	3	6	10
6 SQMM	2	4	5

NOTE :- GREEN COLOUR EARTH WIRE 2.5 SQMM CU WIRE FOR CIRCUIT WIRING AND 1 NOS CU. EARTH WIRE SAME SIZE OF SUB-MAIN SHALL RUN INSIDE THE SAME CONDUIT AND FOR 16/20 AMP SOCKET OUTLET 4.0 SQMM CU. WIRE. SEPARATE CONDUIT SHALL BE USED FOR POINT, CIRCUIT AND SUB-MAIN WIRING.

DETAIL (A') - 2 NOS. 25 MM PVC CONDUIT FROM DB-A TO 3RD FLOOR AND 1 NOS. 25 MM PVC CONDUIT FROM 3RD TO 6TH FLOOR & TERRACE PLAN

DETAIL (B') - 2 NOS. 25 MM PVC CONDUIT FROM DB-B TO 3RD FLOOR AND 1 NOS. 25 MM PVC CONDUIT FROM 3RD TO 6TH FLOOR & TERRACE PLAN

NOTE :- COMMON AREA LIGHTING POINT/FIXTURE OPERATE IN ALTERNATELY GROUP CONTROL.

PROJECT: HOUSING FOR ALL UNDER PRADHAN MANTRI AWAS YOJNA MANPUR SITE (PMAY), INDORE

CLIENT: INDORE MUNICIPAL CORPORATION

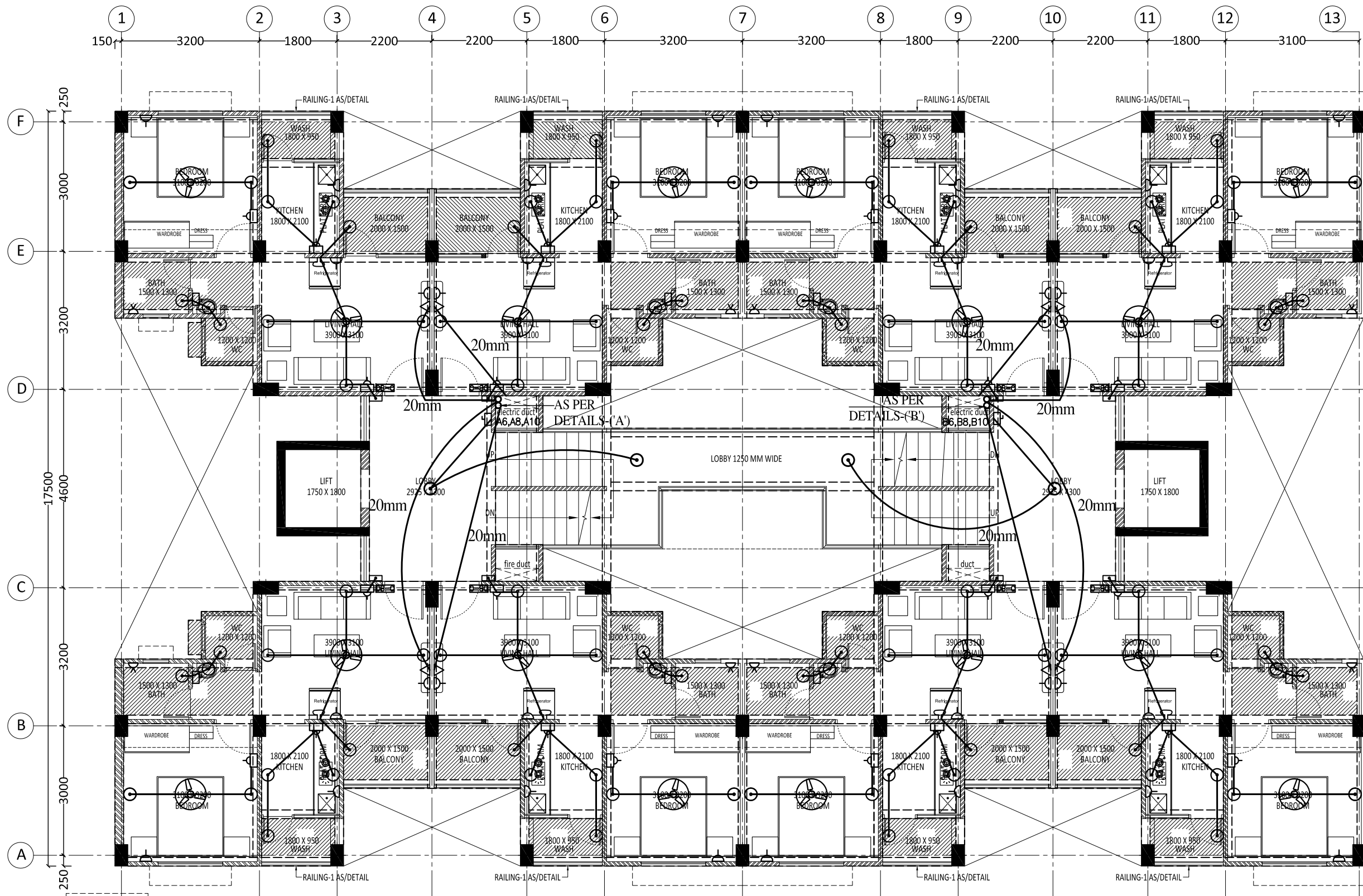
DRAWING: ELECTRICAL POINT & CONDUIT LAYOUT PLAN OF TYPICAL (1st, 3rd, 5th & 7th) FLOOR PLAN EWS BLOCK (KANADIYA EXTENSION)

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SCALE	DRAWN BY	E-02
GRID	PROJ. NO	

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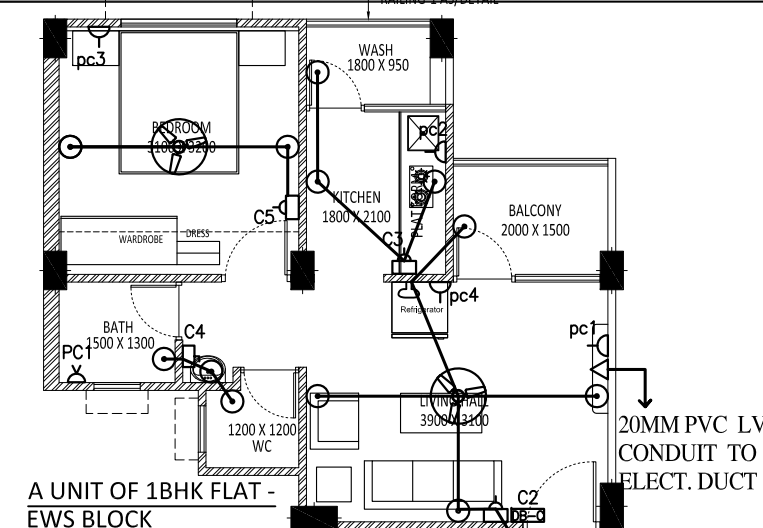
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NORTH



LEGEND	
SYMBOL	PARTICULAR
	CEILING FAN
	SWITCH BOARD
	SWITCH BOARD WITH 6A SOCKET OUTLET
	6A SOCKET OUTLET
	16A SOCKET OUTLET
	TV POINT
	DISTRIBUTION BOARD
	BELL PUSH
	BELL
	PULL BOX
	JUNCTION BOX
	CIRCUIT CONDUIT
	POWER CONDUIT
	SUB-MAIN CONDUIT
	LV CONDUIT

TYPICAL (2nd, 4th, 6th & 8th) FLOOR PLAN



MOUNTING HEIGHTS		
SL.NO	DESCRIPTION	HEIGHT FROM FINISHED FLOOR LEVEL (Reference to bottom)
1	SB DISTANCE FROM EDGE OF WALL NEAR DOOR	150MM
2	POINT FOR EXHAUST FAN	2400MM
3	TOILET SWITCH BOARD	1200MM
4	GEYSER SOCKET	2100MM/AS PER SIDE CONDITION
5	GEYSER SOCKET CONTROL	1200MM/AS PER SIDE CONDITION
6	SOCKET FOR REFRIGERATOR	1200MM
7	SWITCHES & SOCKETS IN LIVING DINING & GENERAL AREAS	1200MM
8	CALL BELL SWITCH/VP-OUTDOOR	1200MM
9	BUZZER/VDP-INDOOR	2100MM
10	ALL WALL LIGHT POINTS	2400MM
11	BOTTOM OF DB	2100MM/AS PER SIDE CONDITION
12	SOCKETS AND SWITCH BOARD FOR STUDY TABLE	900MM
13	TV OUTLET AND ANY OTHER SOCKETS IN THE BEDROOMS	900MM
14	TV AND SOCKETS IN LIVING AND DINING AREAS	1200MM
15	SOCKETS IN THE KITCHEN	300MM ABOVE KITCHEN PLATFORM

CAPACITY OF CONDUITS FOR WIRES			
SIZE OF WIRES	MAXIMUM NUMBER OF WIRES		
	DIA OF CONDUIT	20MM/3/4"	25MM/1"
C.S.A OF WIRES IN SQMM			
1.5SQMM	5	10	18
2.5SQMM	5	8	12
4 SQMM	3	6	10
6 SQMM	2	4	5

NOTE - GREEN COLOUR EARTH WIRE 2.5 SQMM CU WIRE FOR CIRCUIT WIRING AND 1 NOS CU. EARTH WIRE SAME SIZE OF SUB-MAIN SHALL RUN INSIDE THE SAME CONDUIT AND FOR 16/20 AMP SOCKET OUTLET 4.0 SQMM CU. WIRE. SEPARATE CONDUIT SHALL BE USED FOR POINT, CIRCUIT AND SUB-MAIN WIRING.

DETAIL (A') - 2 NOS. 25 MM PVC CONDUIT FROM DB-A TO 3RD FLOOR AND 1 NOS. 25 MM PVC CONDUIT FROM 3RD TO 6TH FLOOR & TERRACE PLAN

DETAIL (B') - 2 NOS. 25 MM PVC CONDUIT FROM DB-B TO 3RD FLOOR AND 1 NOS. 25 MM PVC CONDUIT FROM 3RD TO 6TH FLOOR & TERRACE PLAN

NOTE - COMMON AREA LIGHTING POINT/FIXTURE OPERATE IN ALTERNATELY GROUP CONTROL

PROJECT: HOUSING FOR ALL UNDER PRADHAN MANTRI AWAS YOJNA MANPUR SITE (PMAY), INDORE

CLIENT: INDORE MUNICIPAL CORPORATION

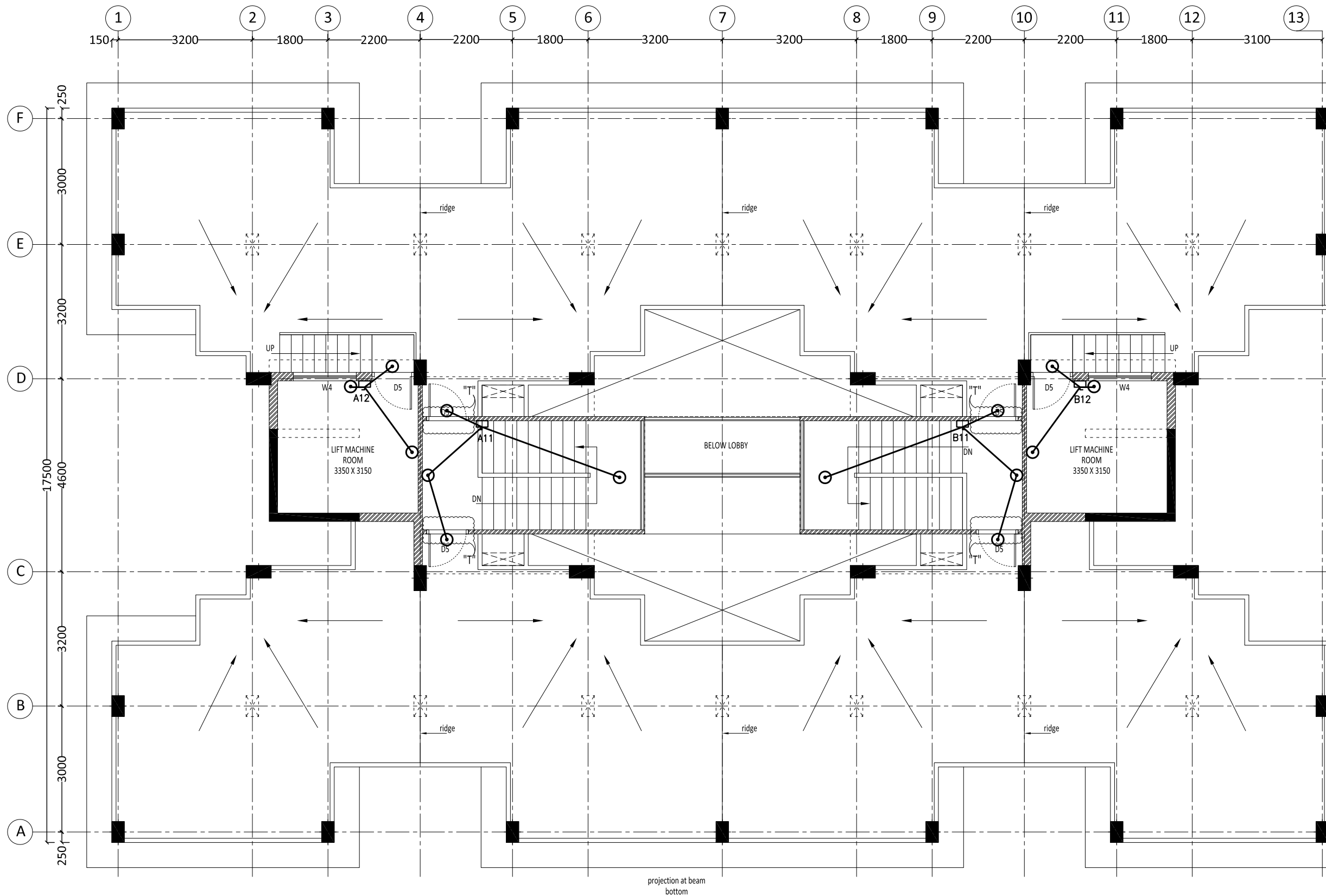
DRAWING: ELECTRICAL POINT & CONDUIT LAYOUT PLAN OF TYPICAL (2nd, 4th, 6th & 8th) FLOOR PLAN EWS BLOCK (KANADIYA EXTENSION)

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NORTH



LEGEND	
SYMBOL	PARTICULAR
	CEILING FAN
	SWITCH BOARD
	SWITCH BOARD WITH 6A PLUG
	LIGHT POINT
	POINT CONDUIT

CAPACITY OF CONDUITS FOR WIRES

SIZE OF WIRES	MAXIMUM NUMBER OF WIRES		
	20MM/3/4"	25MM/1"	32MM/1-1/4"
C.S.A OF WIRES IN SQMM			
1.5SQMM	5	10	18
2.5SQMM	5	8	12
4SQMM	3	6	10
6SQMM	2	4	5

NOTE : GREEN COLOUR EARTH WIRE 2.5 SQMM CU WIRE FOR CIRCUIT WIRING AND 1 NOS CU. EARTH WIRE SAME SIZE OF SUB-MAIN SHALL RUN INSIDE THE SAME CONDUIT AND FOR 16/20 AMP SOKET OULET 4.0 SQMM CU. WIRE. SEPARATE CONDUIT SHALL BE USED FOR POINT, CIRCUIT AND SUB-MAIN WIRING.

PROJECT: HOUSING FOR ALL UNDER PRADHAN MANTRI AWAS YOJNA MANPUR SITE (PMAY), INDORE

CLIENT: INDORE MUNICIPAL CORPORATION

DRAWING: ELECTRICAL POINT & CONDUIT LAYOUT PLAN OF TERRACE PLAN - EWS BLOCK(KANADIYA EXTENSION)

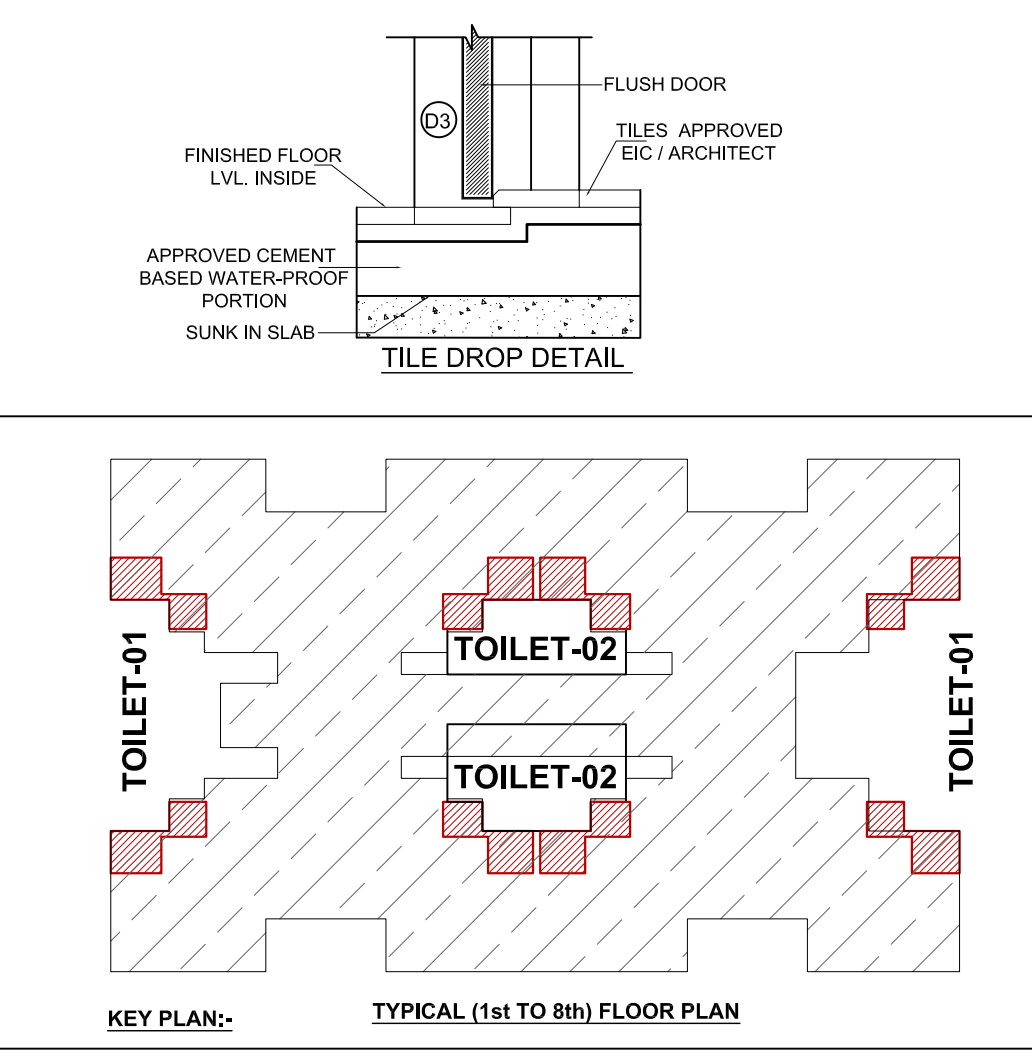
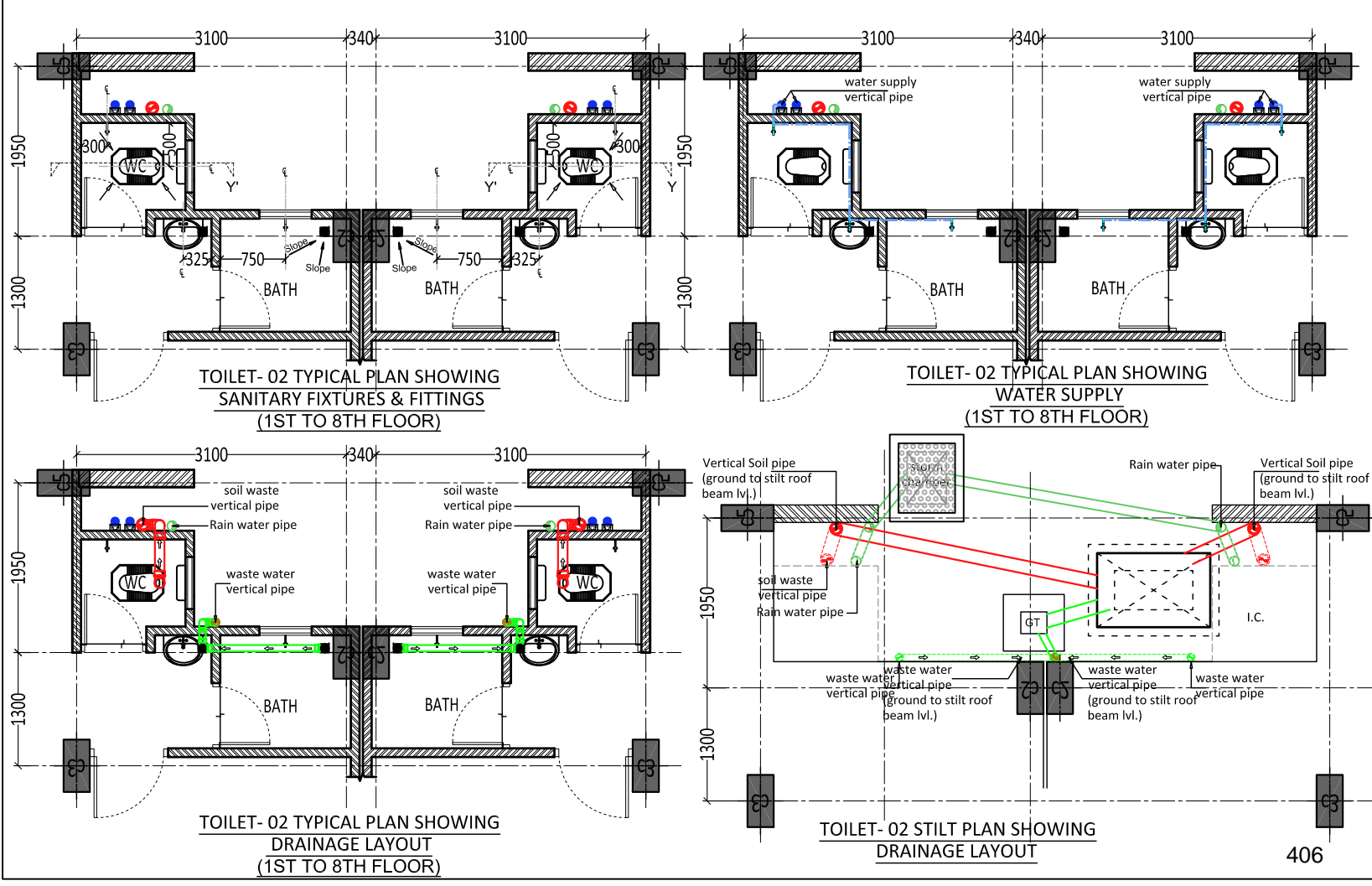
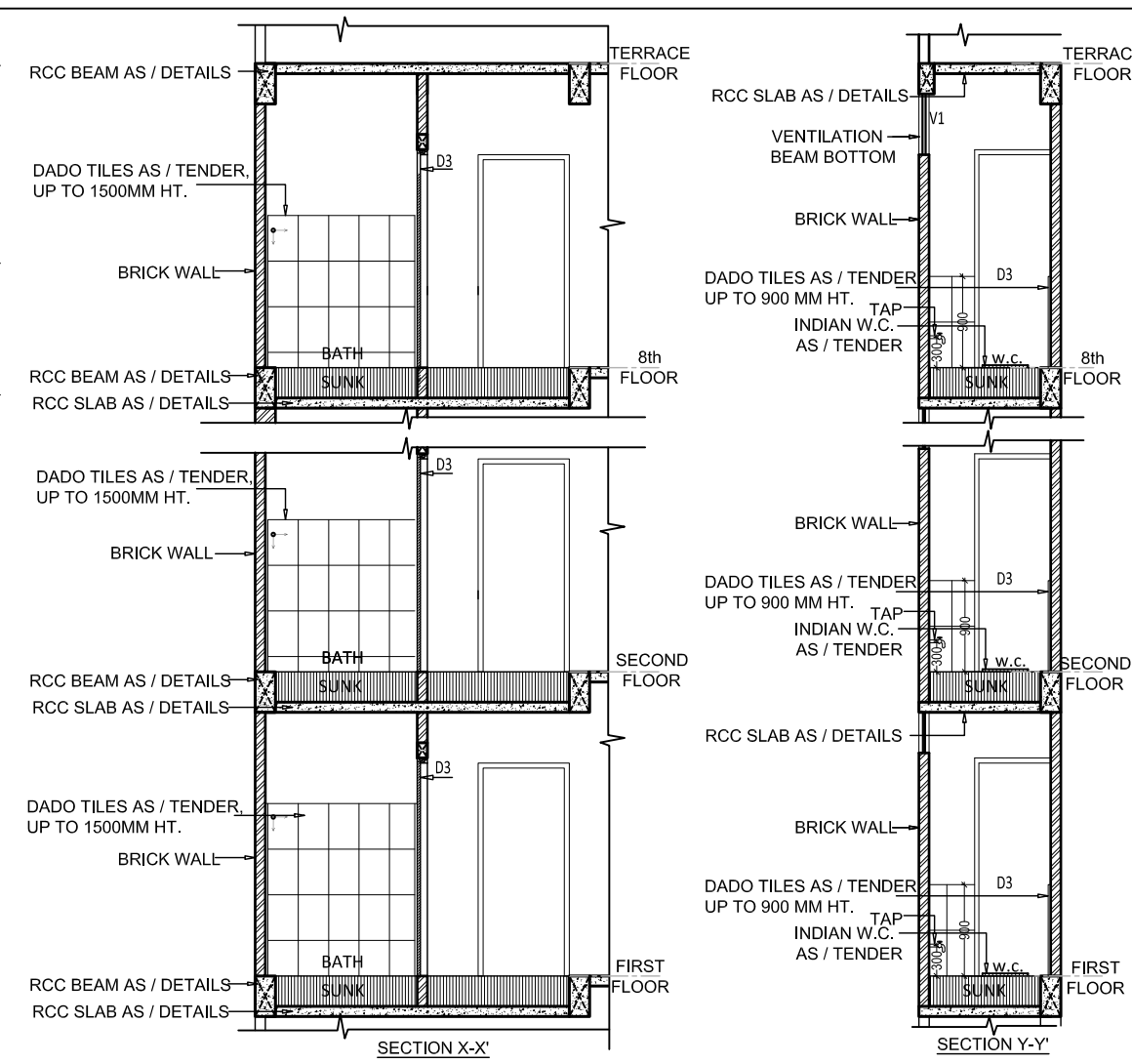
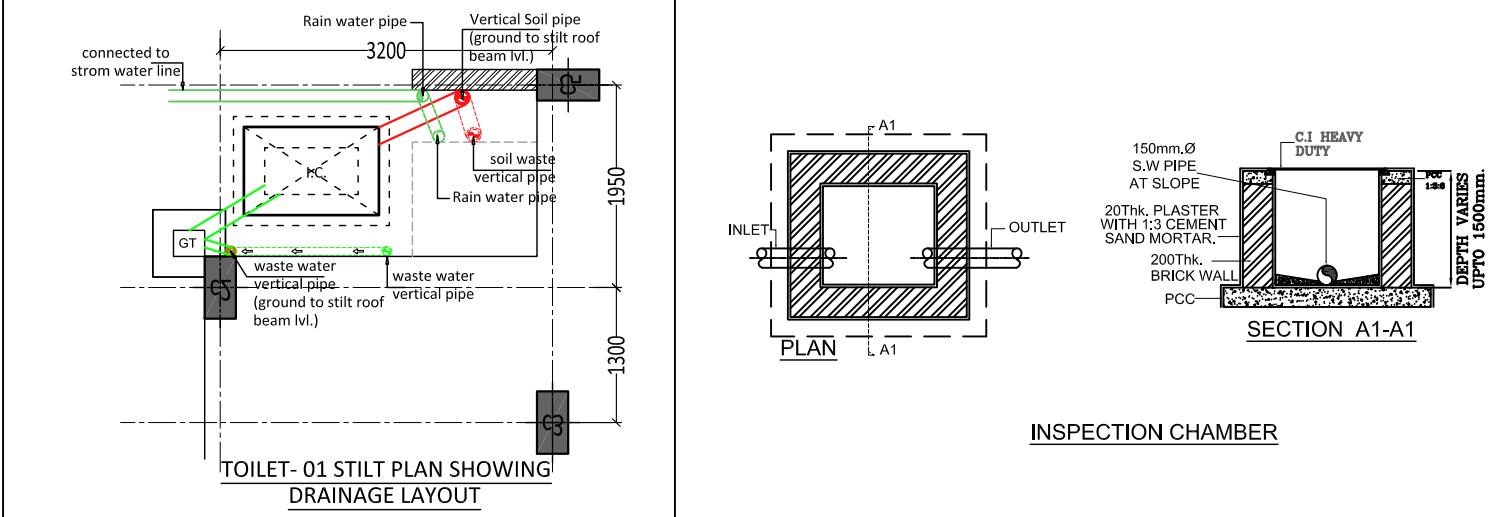
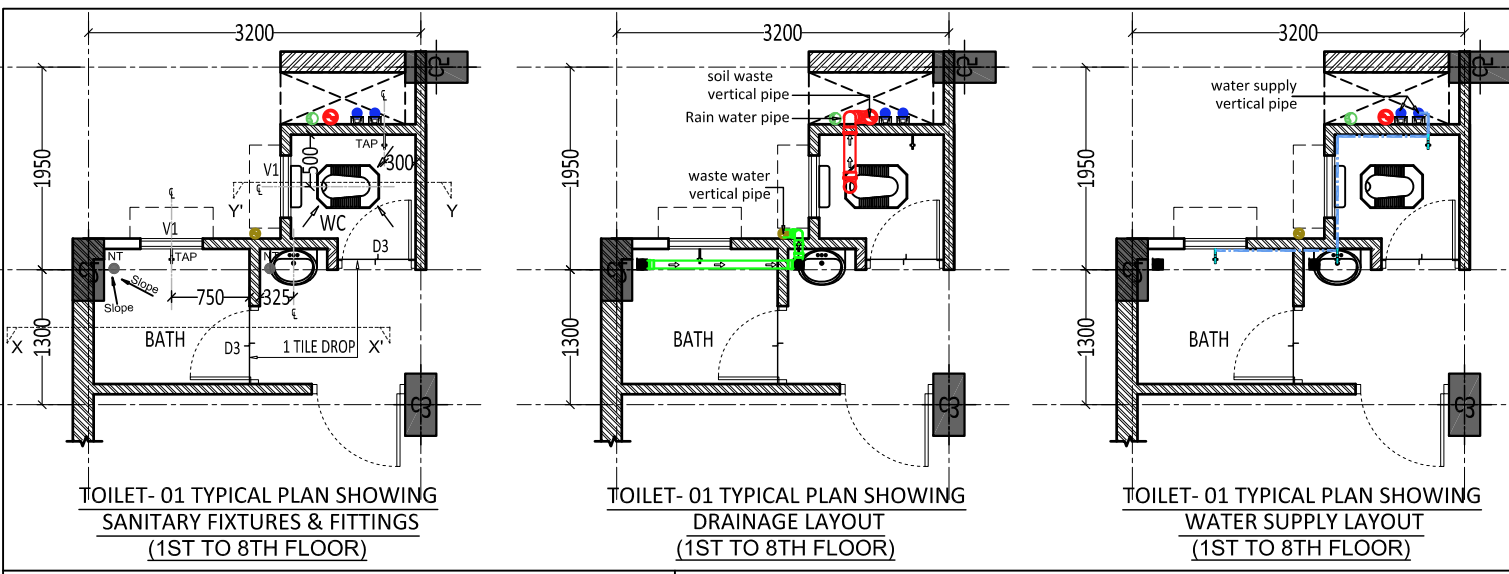
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SCALE 1:100	DRAWN BY	E-04
GRID	PROJ. NO	

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- GENERAL NOTES**
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 2. THE CONTRACTOR SHOULD ENSURE PROPER SAFETY PRECAUTION OF STRUCTURAL STABILITY OF EXISTING BUILDINGS, SAFETY OF SITE WORKERS AND ULS/GOV'T. INFRASTRUCTURES NEAR BY SITE DURING EXCAVATION. THIS SHALL BE THE SOLE RESPONSIBILITY OF CONTRACTOR.
 3. THE STRENGTH & STRUCTURAL STABILITY STURDILY OF SCAFFOLDING CENTERING SHUTTERING MATERIAL LIFTS SHALL BE ENSURED BY THE CONTRACTOR AND SHALL BE THE RESPONSIBILITY OF CONTRACTOR.
 4. THE STRENGTH STABILITY OF EXISTING BUILDING CLOSED TO THE CONSTRUCTION SITE SHALL BE ENSURED BY THE CONTRACTOR BY MEANS PROPER SHORING.
 5. PRIOR APPROVAL SHOULD BE TAKEN FROM COMPETENT AUTHORITIES PRIOR TO EXECUTION.
 6. THE DRAWING IS PREPARED ON THE APPROVED CONCEPT BY DEPARTMENT ALL THE NECESSARY STATUARY / ADMINISTRATIVE APPROVALS SHOULD BE ENSURED PRIOR TO EXECUTION.

LEGEND

1. 110 MM Ø SOIL PVC PIPE LINE	
2. 75 MM Ø WASTE PVC PIPE LINE	
3. DIRECTION OF FLOW	
4. 1 TILE DROP	
5. STARTING POINT	
6. 40MM PIPE WATER SUPPLY LINE	
7. 25MM PIPE WATER SUPPLY LINE	
8. 15MM PIPE WATER SUPPLY LINE	
9. NAHANI TRAP	
10. FLUSH TANK	

PROJECT:
HOUSING FOR ALL UNDER PRADHAN MANTRI AWAS YOJNA MANPUR SITE (PMAY), INDORE

CLIENT : INDORE MUNICIPAL CORPORATION

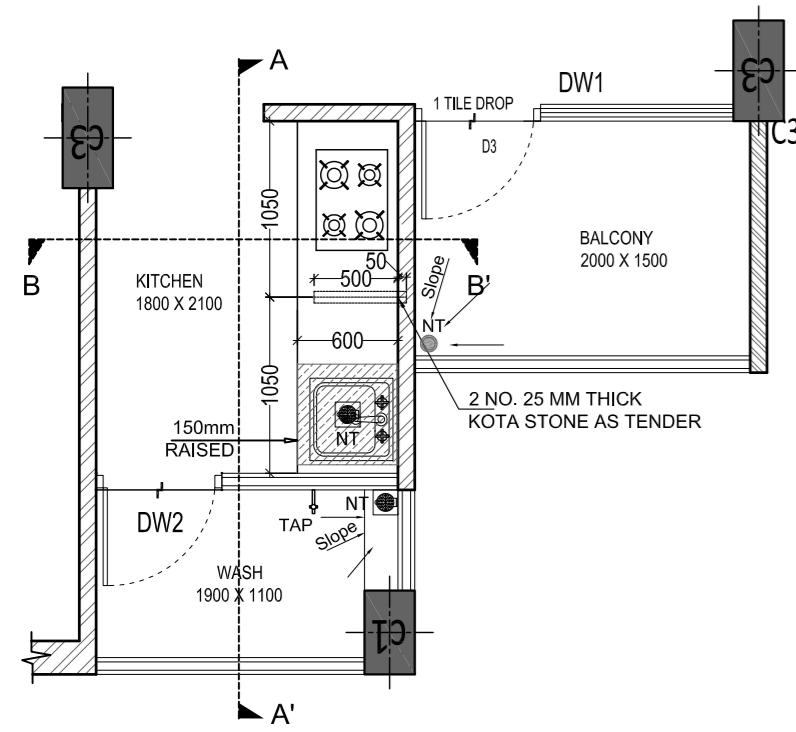
DRAWING: TOILET DETAIL - EWS BLOCK (KANADIYA EXTENSION)

DATE	CHECKED BY	DRG. NO.
SCALE	DRAWN BY	AR-08
GRID	PROJ. NO	

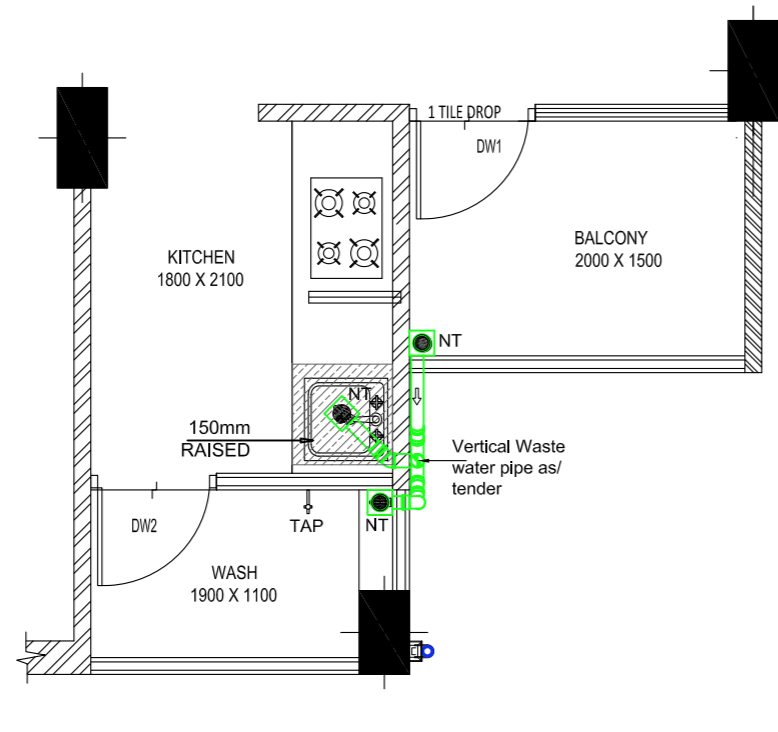
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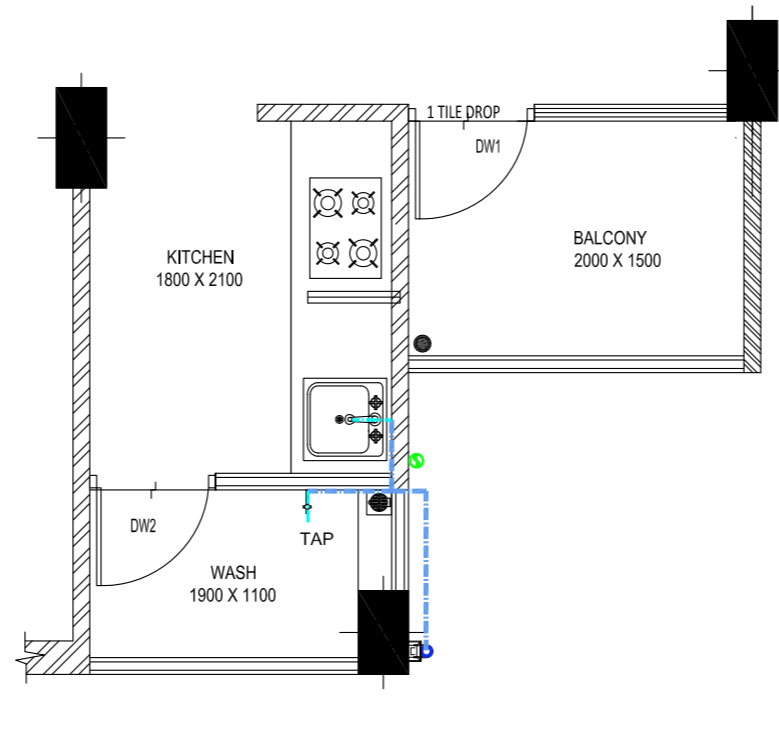
NORTH



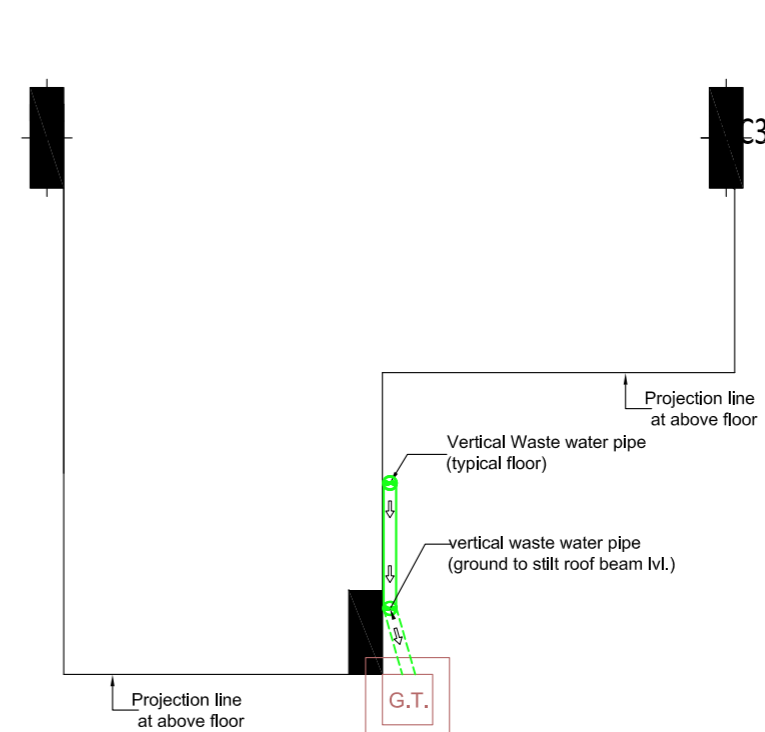
KITCHEN: TYPICAL PLAN SHOWING
FIXTURES & FITTINGS
(1ST TO 8TH FLOOR)



KITCHEN: TYPICAL PLAN SHOWING
DRAINAGE LAYOUT
(1ST TO 8TH FLOOR)



KITCHEN: TYPICAL PLAN SHOWING
WATER LAYOUT
(1ST TO 8TH FLOOR)



KITCHEN: STILT PLAN SHOWING
DRAINAGE LAYOUT

ONLY FOR TENDER PURPOSE

NOTE:

- These are preliminary drawings giving broad ideas about the work. There can be certain modification as per final working drawing stage. It can be subjected to changes as required.
- These drawing are general arrangement drawing and for TENDER purpose only these are STRICTLY NOT FOR CONSTRUCTION PURPOSE

*NOTE: ALL SANITARY FIXTURES, FLOORING, DADO AND ANY OTHER FINISHING ITEM SHOULD BE KEPT AS PER TENDER.

GENERAL NOTES

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- THE STRENGTH STABILITY OF EXISTING BUILDING CLOSED TO THE CONSTRUCTION SITE SHALL BE ENSURED BY THE CONTRACTOR BY MEANS PROPER SHORING.
- PRIOR APPROVAL SHOULD BE TAKEN FROM COMPETENT AUTHORITIES PRIOR TO EXECUTION.
- THE DRAWING IS PREPARED ON THE APPROVED CONCEPT BY DEPARTMENT. ALL THE NECESSARY STATUARY / ADMINISTRATIVE APPROVALS SHOULD BE ENSURED PRIOR TO EXECUTION.

LEGEND

1.	75 MM Ø WASTE PVC PIPE LINE	
2.	NAHANI TRAP	
3.	DIRECTION OF FLOW	
4.	1 TILE DROP	
5.	STARTING POINT	
WATER SUPPLY LINE		
6.	40MM PIPE WATER SUPPLY LINE	
7.	25MM PIPE WATER SUPPLY LINE	
8.	15MM PIPE WATER SUPPLY LINE	

PROJECT:

HOUSING FOR ALL UNDER PRADHAN MANTRI AWAS YOJNA MANPUR SITE (PMAY), INDORE

CLIENT : INDORE MUNICIPAL CORPORATION

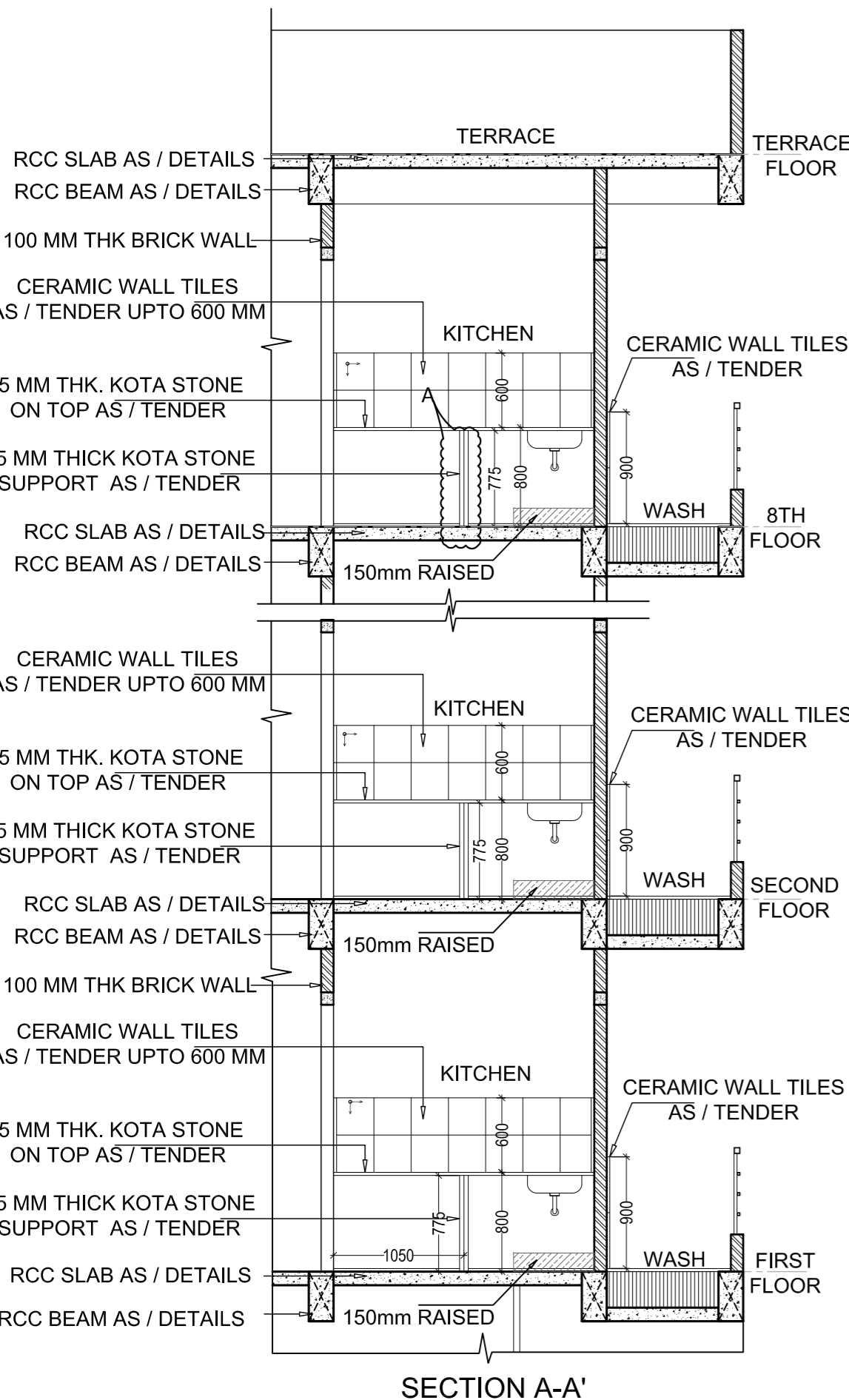
DRAWING: KITCHEN DETAIL - EWS BLOCK

DATE	-	CHECKED BY		DRG. NO.
SCALE	-	DRAWN BY		AR-09
GRID	-	PROJ. NO		

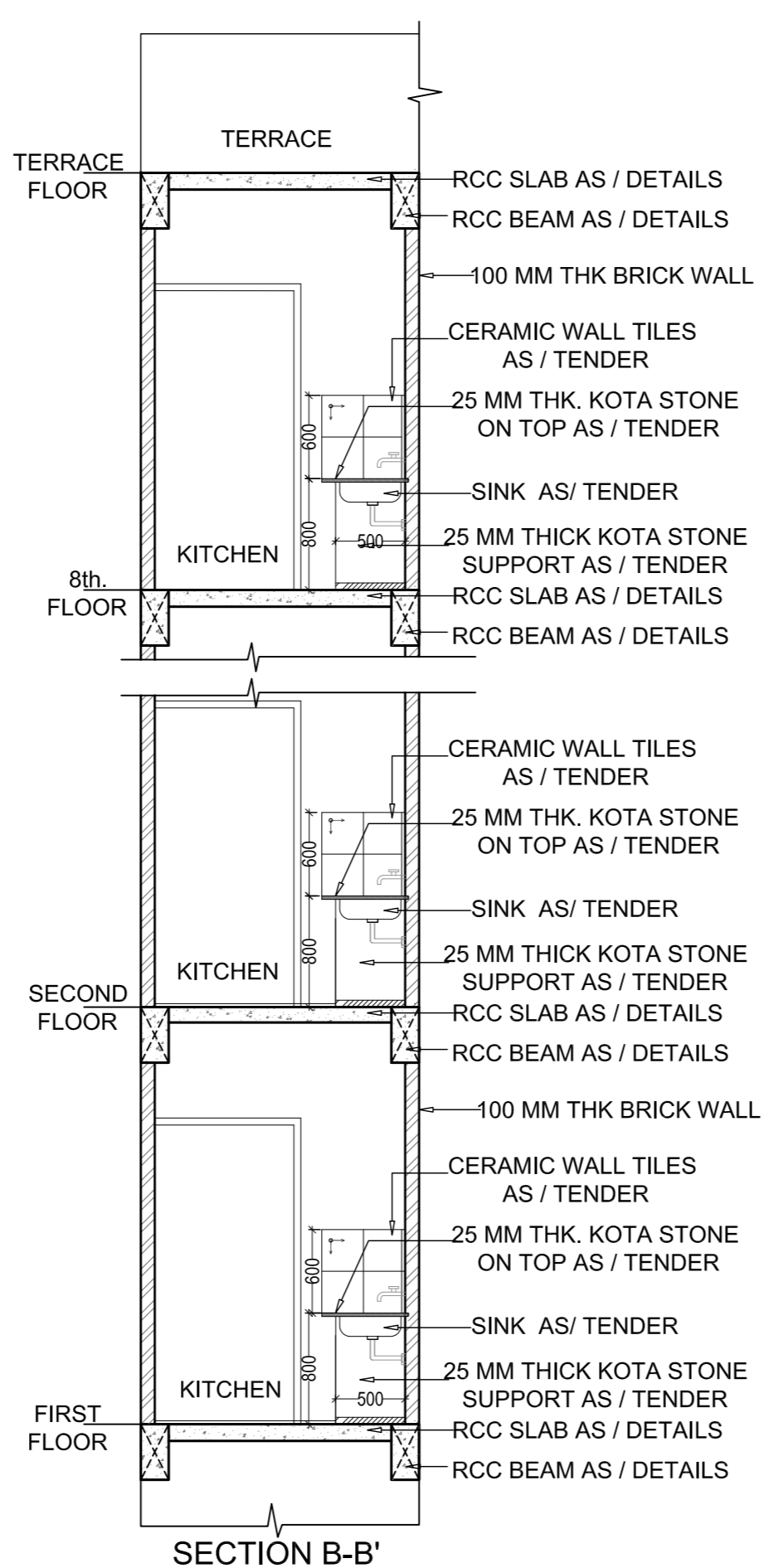
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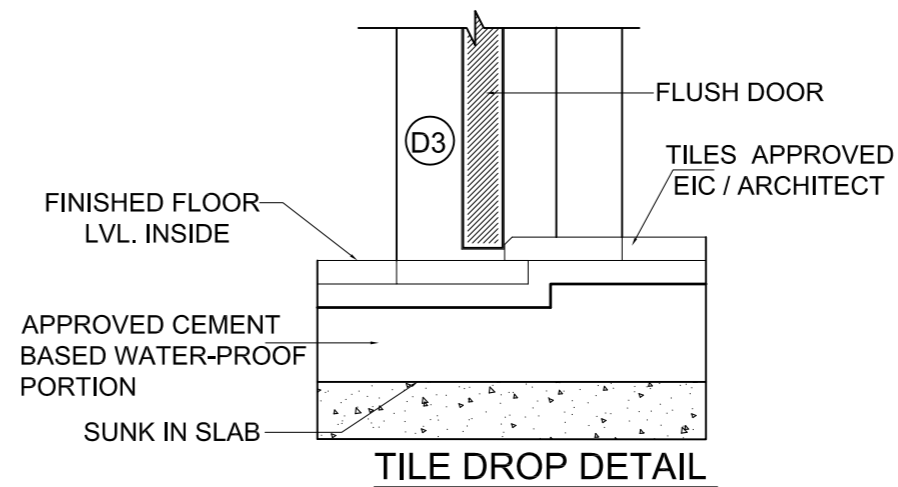
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Phone : 561124, 4065064 Fax: (0731) 4065064
email : hiten@mehta.architect@gmail.com



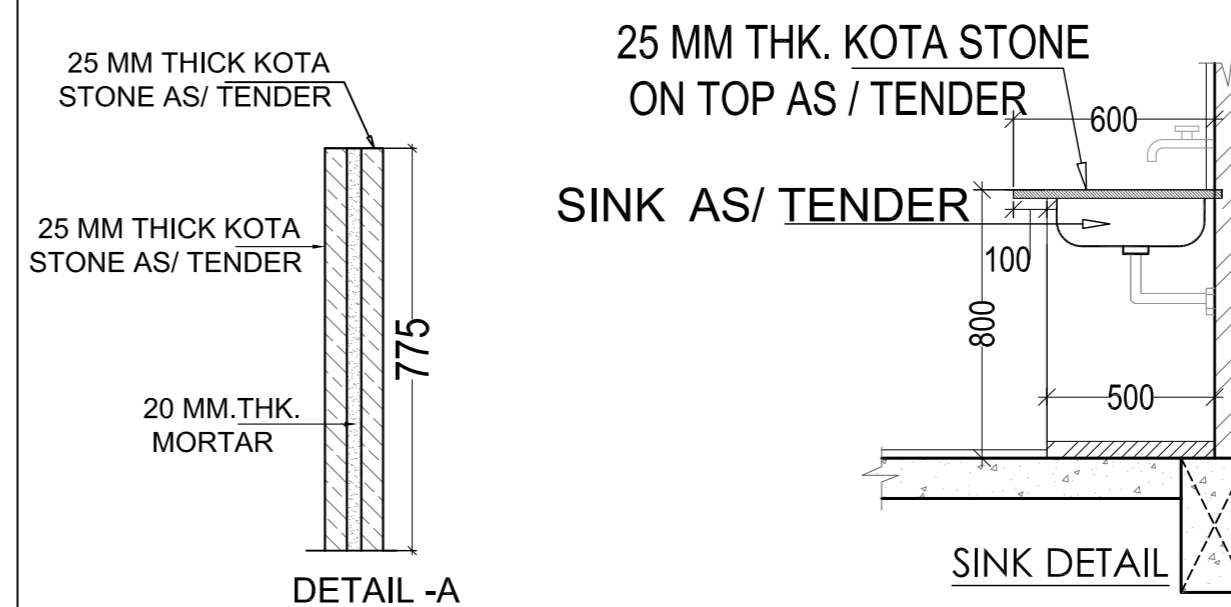
SECTION A-A'



SECTION B-B'

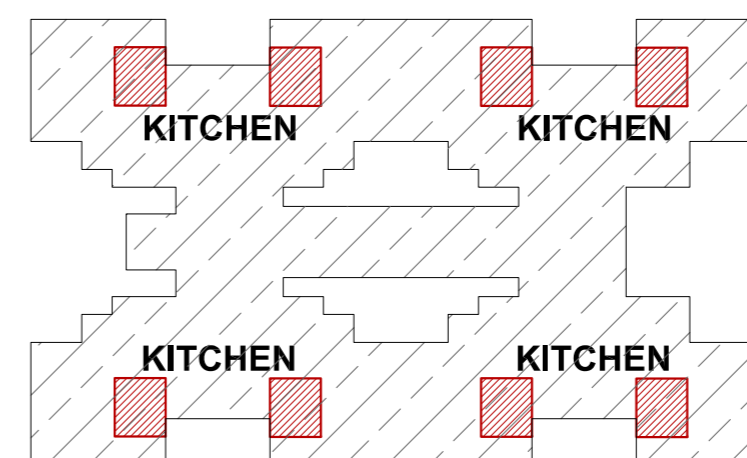


TILE DROP DETAIL



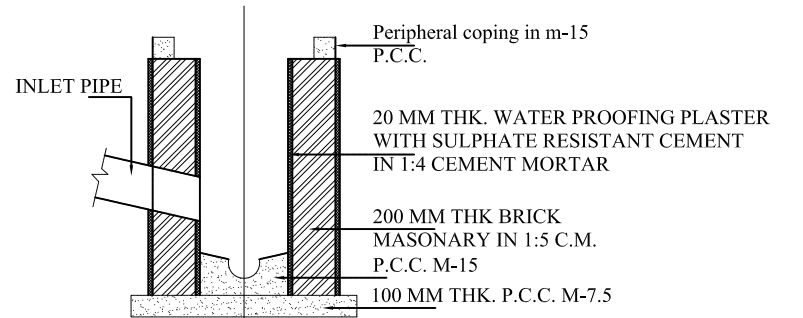
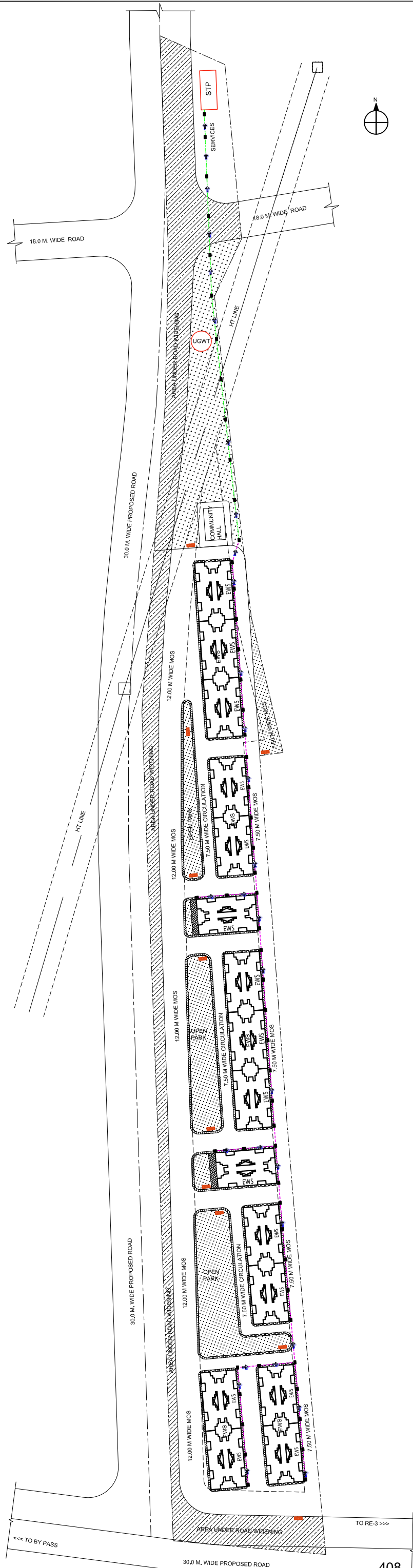
DETAIL -A

SINK DETAIL



KEY PLAN:-

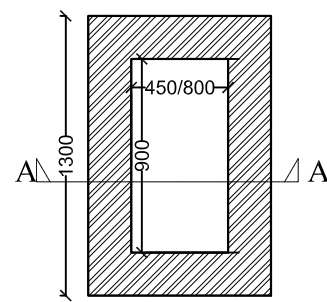
TYPICAL FLOOR PLAN



SECTION AT AA OF MAIN CHAMBER

NOTE:-

- d' depends as per site condition.
- d varies from 0.60 m. to 3.00 m.



PLAN MAIN SEWER CHAMBER

LEGEND:-

PARTICULAR	SYMBOL
SEWER CHAMBER	
SEWER LINE	
A. - 225 mm Ø RCC PIPE	
B. - 300 mm Ø RCC PIPE	

PROJECT - HOUSING FOR ALL UNDER PRADHAN MANTRI AWAS YOJNA (PMAY), INDORE

CLIENT - INDORE MUNICIPAL CORPORATION

DRAWING - SEWER LINE LAYOUT PLAN (KANADIYA EXTENSION)

DRG NO -

OD-02

SCALE -

N.T.S.

LEGEND :

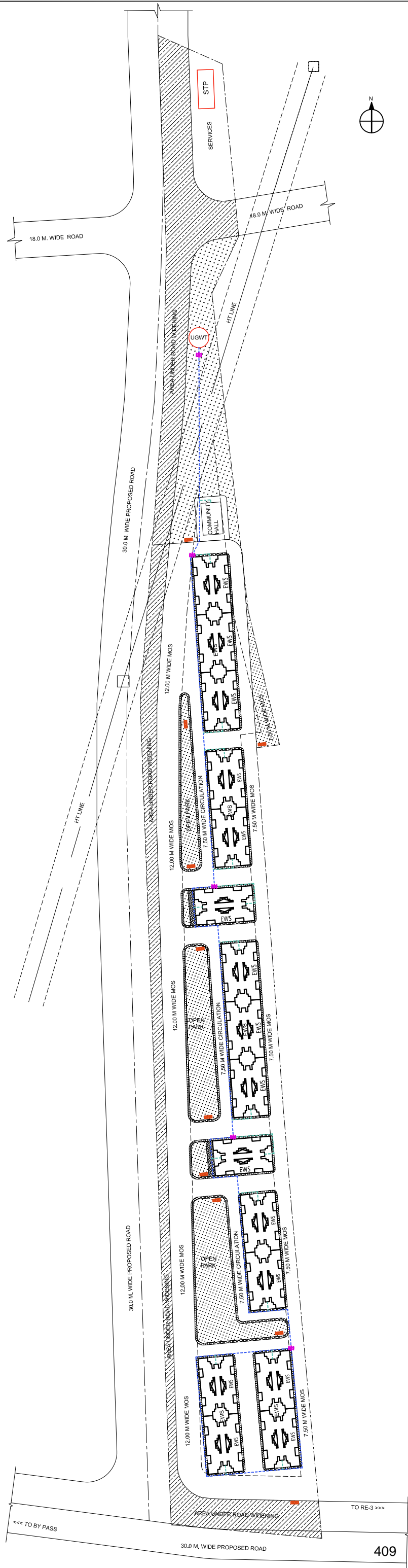
DUSTBIN



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LEGEND		
S.NO.	PARTICULAR	SYMBOL
1.	WATER SUPPLY PIPE	
	A. 110 MM Ø PIPE	
	B. 50 MM Ø PIPE	
2.	SLUICE VALVE	
	WATER TRUNK LINE	

PROJECT - HOUSING FOR ALL UNDER PRADHAN MANTRI AWAS YOJNA (PMAY), INDORE

CLIENT - INDORE MUNICIPAL CORPORATION

DRAWING - WATER LINE LAYOUT PLAN (KANADIYA EXTENSION)

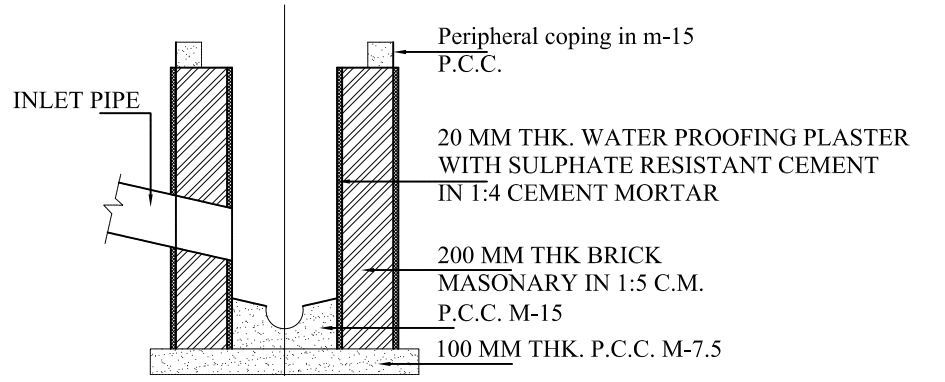
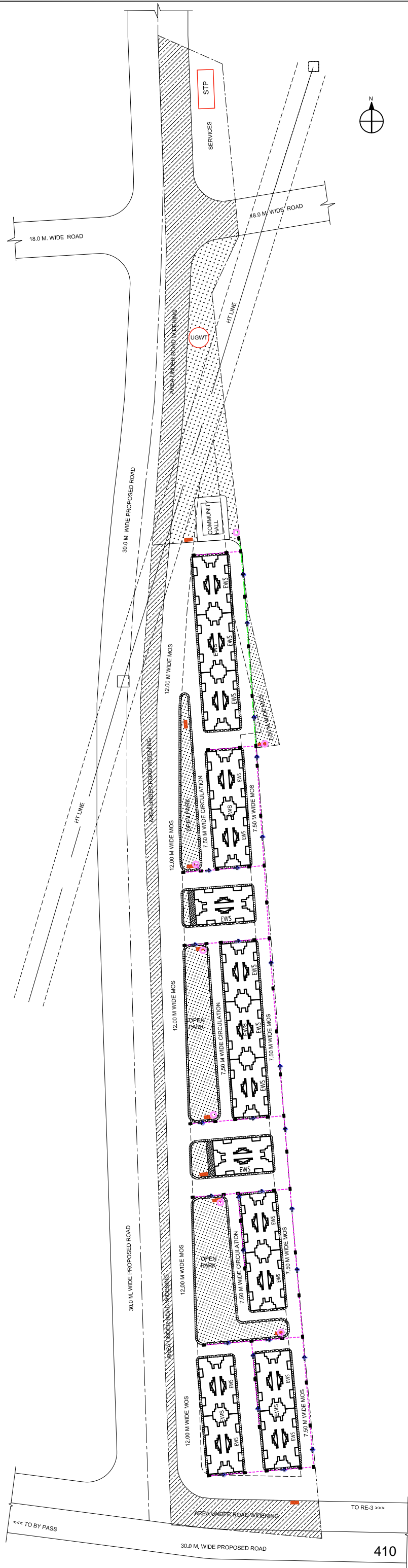
DRG NO -
OD-04

SCALE -
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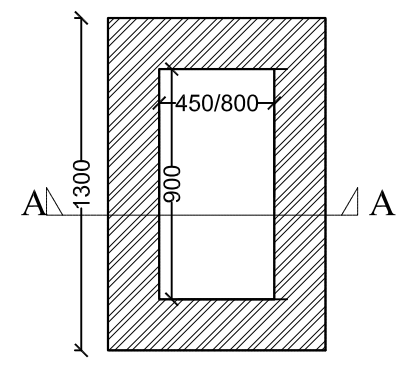
DUSTBIN



SECTION AT AA OF MAIN CHAMBER

NOTE:-

- d' depends as per site condition.
- d varies from 0.60 m. to 3.00 m.



PLAN MAIN STORM CHAMBER

LEGEND:-

S.NO.	Particular	Symbol
1.	STORM Chamber	
2.	STORM Line	
a.	225 mm Ø	
b.	300 mm Ø	
3.	OUT FALL POINT	
4.	WATER RECHARGE PIT	

PROJECT - HOUSING FOR ALL UNDER PRADHAN MANTRI AWAS YOJNA (PMAY), INDORE

CLIENT - INDORE MUNICIPAL CORPORATION

DRAWING - STORM LINE LAYOUT PLAN (KANADIYA EXTENSION)

DRG NO -

OD-03

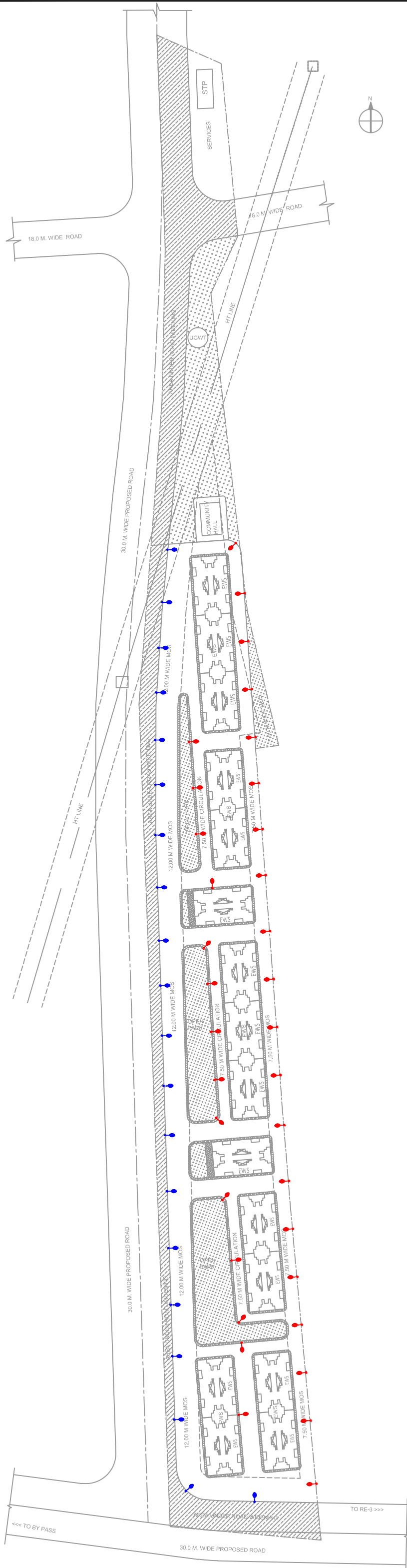
SCALE -

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LEGEND :



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LEGEND

S.NO.	SYMBOL	PARTICULAR
1.		LED STREET LIGHT-1X48W
2.		LED STREET LIGHT-1X25W

PROJECT - HOUSING FOR ALL UNDER PRADHAN MANTRI AWAS YOJNA (PMAY),INDORE

CLIENT - INDORE MUNICIPAL CORPORATION

DRAWING - STREET LIGHT LAYOUT PLAN (KANADIYA EXTENSION)

DRG NO -

E-01

SCALE -

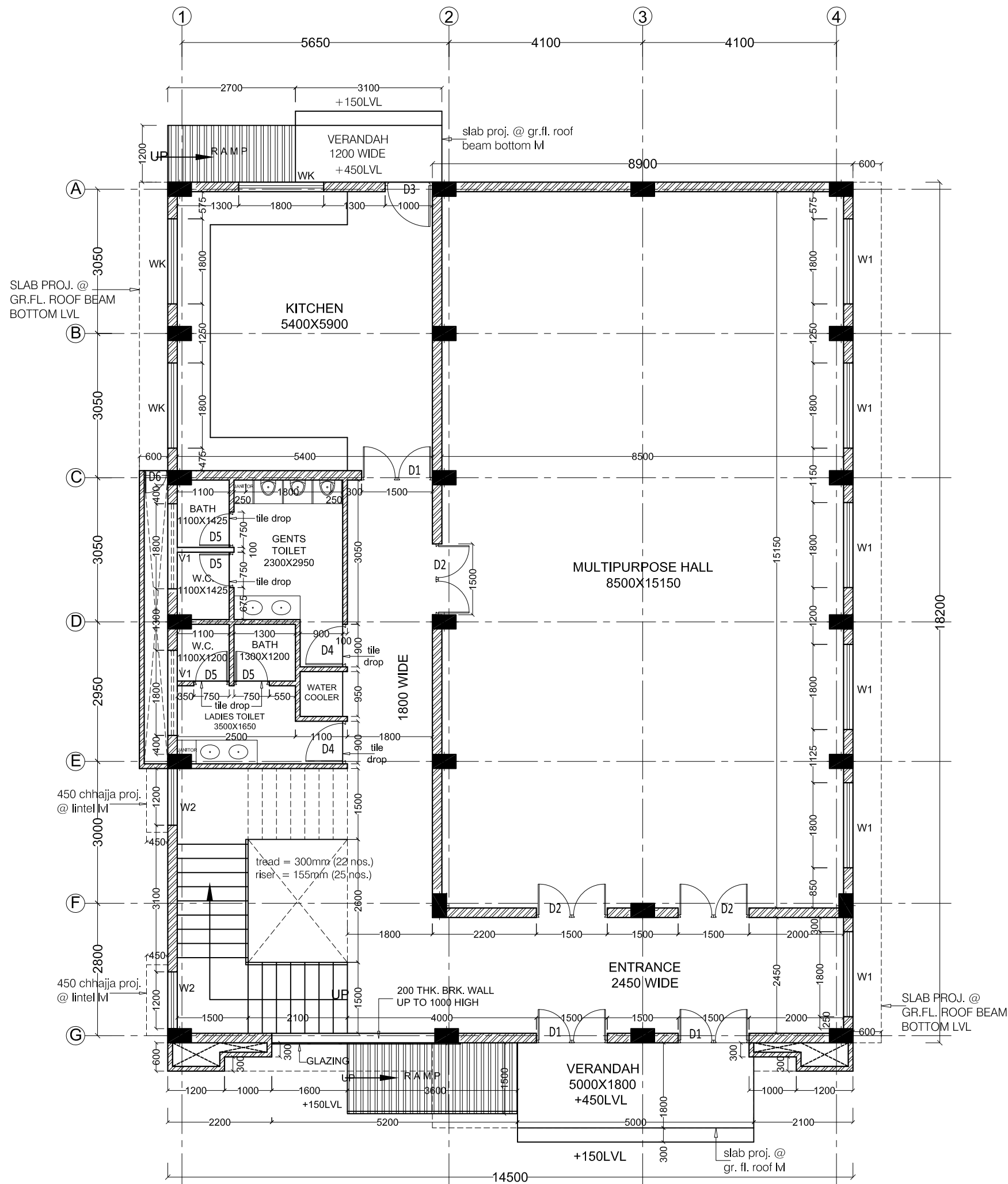
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2.3.8 Social Infrastructure Building Drawings



GROUND FLOOR PLAN

SCHEDULE OF DOORS

S.NO.	TYPE	SIZE	DESCRIPTION
1.	D1	1500X2400	ALLUMINIUM FRAME GLAZED DOOR
2.	D2	1500X2450	FLUSH DOOR (PRESSED STEEL FRAME)
3.	D3	1000X2450	FLUSH DOOR (PRESSED STEEL FRAME)
4.	D4	900X2150	FLUSH DOOR (PRESSED STEEL FRAME)
5.	D5	750X2150	FLUSH DOOR (PRESSED STEEL FRAME)
6.	D6	500X2150	M.S. TRAP DOOR(M.S. ANGLE FRAME)
7.	D7	1000X2150	M. S. DOOR (AT TERRACE)

SCHEDULE OF WINDOWS & VENTILATOR

S.NO.	TYPE	SIZE	DESCRIPTION
1.	W1	1800X1500	ALLUMINIUM FRAME GLAZED SLIDING WINDOW
2.	W2	1200X1500	ALLUMINIUM FRAME GLAZED FIXED WINDOW
3.	WK	1800X1200	ALLUMINIUM FRAME GLAZED SLIDING WINDOW
4.	V1	1800X600	ALUMINIUM LOUVERED VENTILATOR with exhaust fan provision

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- 2 ALL DIMENSIONS IN THE DRAWING ARE TO BE READ AND NOT TO BE MEASURED.
- 3 ALL DIMENSIONS SHALL BE CO-RELATED WITH STRUCTURAL AND SERVICE DRAWINGS AND ANY AMBIGUITY SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE ARCHITECT BEFORE THE COMMENCEMENT OF WORK.
- 4 THIS DRAWING SHALL SUPERSEDE ITS PREVIOUS REVISIONS.

SPECIFIC NOTES

- 1 ALL LEVELS SHALL BE CROSS CHECKED WITH THE ARCHITECT BEFORE STARTING ON SITE.
- 2 ALL BRICK WALLS ARE 200/100 MM THK. UNLESS OTHERWISE SPECIFIED.
- 3 ALL TILE DROPS ARE 15MM UNLESS OTHERWISE SPECIFIED.
- 4 ALL JUNCTIONS BETWEEN CONCRETE AND ANY OTHER MATERIAL TO BE PLASTERED ONLY AFTER FIXING CHICKEN MESH.
- 5 EMBEDDED PLATE SHALL BE PROVIDED AT LINTEL LVL. WHERE DOOR / WINDOW IS ADJOINING TO COLUMN.
- 6 PERIPHERAL PLINTH PROTECTION AS / TENDER ITEM. 7ALL DIM. ARE IN MM.

PROJECT - HOUSING FOR ALL UNDER PRADHAN MANTRI AWAS YOJNA (PMAY),INDORE

CLIENT - INDORE MUNICIPAL CORPORATION

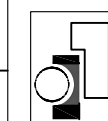
DRAWING - COMMUNITY HALL (KANADIYA EXTENSION)

DRG NO -

COMH-01

SCALE -

N.T.S.



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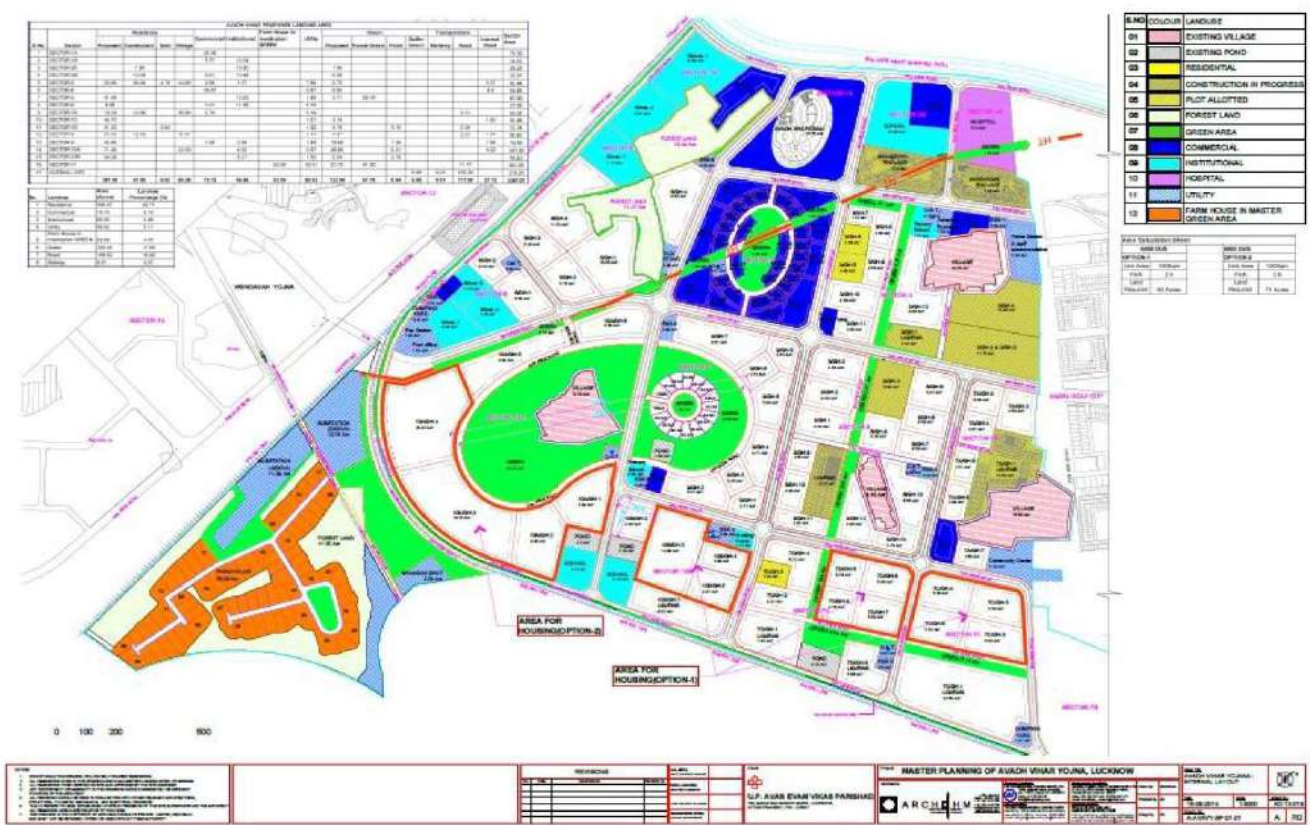
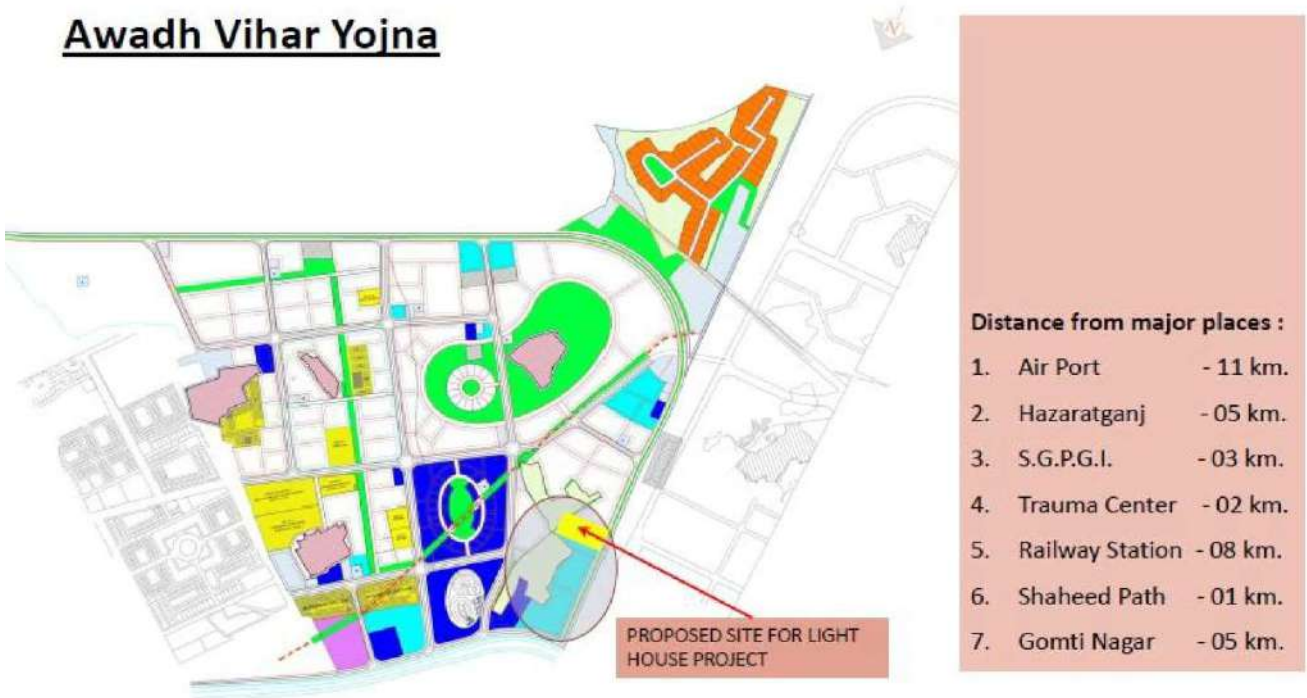
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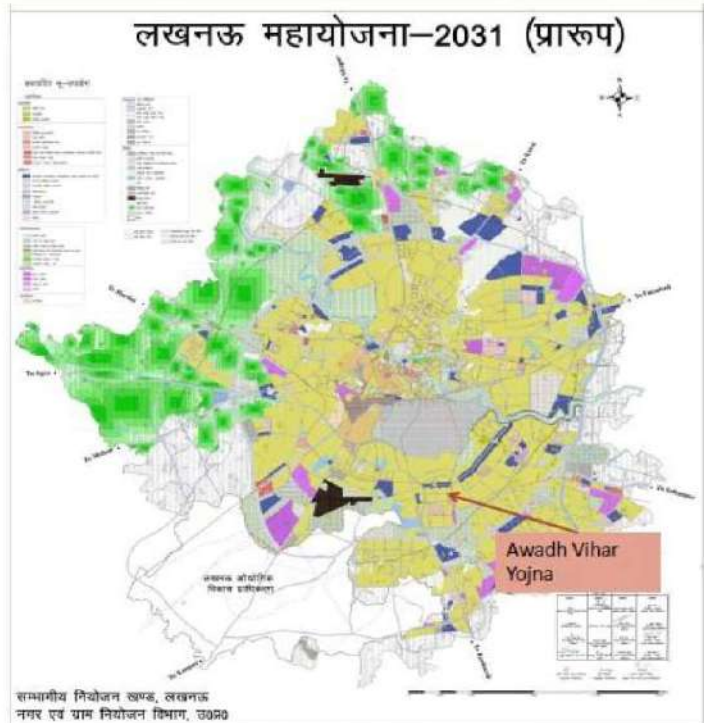
2.4 LHP 4 Uttar Pradesh

2.4.1 Location

Awadh Vihar Yojna



LOCATION MAP



2.4.2 Total Station Survey Map



2.4.3 Soil Testing Report

Proposed site : Soil Test Report



NORTH INDIA ENGINEERS' LAB & CONSULTANTS
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Motilal Nehru National Institute of Technology, Allahabad - 211 004

Experts in : **Laboratory and Field Testing of Civil Engineering
Design Solutions for Civil Engineering**

No. 015G/NIEL/UPAVP/2017

Dated: 07.03.2017

To,
The Executive Engineer
Construction Division-14
Office Complex, Sector-9,
Vrindavan Yojana, Lucknow

23
Y-57
05
10/23/2017

Subject: Regarding Geotechnical Investigation Report of LIG & EWS site

Dear Sir,

In reference to your letter No. 06/Y-57(PMY)/01 dated 03.01.2017, the Report of Geotechnical Investigation conducted at Awadh Vihar Yojana, Sector-05, Lucknow for LIG & EWS site is enclosed herewith.

The report is checked and vetted by M.N.N.I.T., Allahabad.

For any further query/clarification, please feel free to contact the undersigned.

Thanking You.

Yours Sincerely

Utkarsh
07/03/2017
(Er. Utkarsh Tiwari)
Director



Proposed site : Soil Test Report

A
Report
on

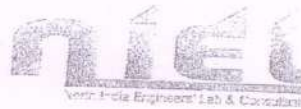
Sub-Soil Exploration
for
Design of Foundation
of

Multi Storeyed Buildings (EWS & LIG)
at
Awadh Vihar Yojna, Sector-05, Lucknow (U.P.)

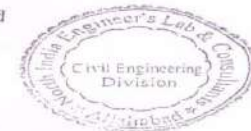
Submitted to

U.P. Avas Avam Vikas Parishad
Construction Div.-14, Lucknow (U.P.)

by



**GEOTECHNICAL ENGINEERING LABORATORY
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Shed No.62, Industrial Estate, M.N.N.I.T. Allahabad
Allahabad



Proposed site : Soil Test Report

ACKNOWLEDGEMENT

The team is thankful to Er. P.K.Singh, Executive Engineer of U.P. Avas Avam Vikas Parishad, Construction Division-14, Lucknow for the sponsoring the project and co-operation extended during the field investigations.

Team is also thankful to the staff of North India Engineers' Lab & Consultants for their co-operation and assistance rendered during the project.



Utkarsh
27/02/07
(Er. Utkarsh Tiwari)
Director

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NORTH INDIA ENGINEERS' LAB & CONSULTANTS
(An ISO 9001:2008 Certified Company)
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Allahabad

Proposed site : Soil Test Report

Geotechnical Investigation for the Design
of
Foundation for Multi Storeyed Buildings (EWS & LIG)
at
Awadh Vihar Yojana, Sector-05, Lucknow

Project : Sub-soil Exploration for the Design of Foundation for Multi Storeyed Buildings (EWS & LIG).
Agency : U.P. Avas Avam Vikas Parishad, Construction Division-14, Lucknow
Site : Awadh Vihar Yojana, Sector-5, Lucknow

The investigations have been carried out according to the requirements and limitations of the client during January-February, 2017.

Team : Evaluation of the Geotechnical properties of the soils of various strata & subsequent analysis, and the final report for the project have been carried out by the team comprising of:

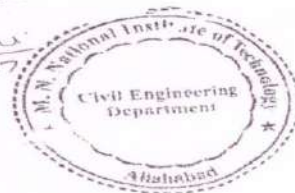
- (i) Er. Utkarsh Tiwari.
- (ii) Dr. S.G.Tripathi, Ph.D. (Geotech.)

The team acknowledge the assistance given by Shri. Dinesh Kumar Soni, Laboratory Technician and Mr.R.K.Shukla & Mr.Vaibhav Singh, Laboratory Assistant for supervision of the field and laboratory works.

The assistance rendered by the staff of U.P. Avas Avam Vikas Parishad, Construction Division-14, Lucknow during the field investigation work is also acknowledged.

Report checked by

Shenau
7/3/17



Utkarsh



Proposed site : Soil Test Report

1.0 INTRODUCTION

The proper design of Civil Engineering Structure requires adequate knowledge of subsurface condition of the site of the structure. The aim of the present Geotechnical Investigations has been to determine the sub-soil characteristics for the design of Foundation for multi storeyed buildings (EWS & LIG) for at Awadh Vihar Yojana, Sector-5, Lucknow.

The investigations were carried out to evaluate the load bearing and settlement characteristics of the soil for the design of foundation as required by the agency. Other allied properties of soils were also studied and are reported herein in this report.

The basic consideration in the design of the foundations is that of safety, dependability, functional utility and economy. Amongst these, tolerable settlement and safety against shear failure are of far most important w.r.t. soil conditions. Therefore for a safe and functional foundation, the allowable bearing pressure is worked out from shear as well as permissible settlement considerations.

For the evaluation of safe ultimate load bearing capacity of soil failing in shear, various theoretical analysis and empirical formulae are available e.g. Terzaghi (1943), Skempton (1951), Meyerhoff (1951, 1953), Hansen (1972) Chan and Devidson (1973) etc. These formulae give value of load bearing capacity of soil as function of shear strength parameters shape, depth, inclination of the foundation and several other parameters. Further field tests, such as standard penetration tests, provide empirical relationships for assessing allowable bearing pressure from 'N-value'.

In the present investigations, the strength parameters viz. Cohesion (C_u) and angle of internal friction (Φ_u) have been evaluated from the Triaxial Test/Direct shear test, using undisturbed/Remoulded samples of various strata recovered during the field investigations. In addition SPT test have been carried out to supplement the results of laboratory studies. The results of field and laboratory investigation carried out would provide the designer the necessary data for evaluating the allowable bearing pressure for shear failure.

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R. K. S. S.
7/3/11



Proposed site : Soil Test Report

The settlement studies are based on consolidation properties of the soil, for which Oedometer tests have been carried out. Using Terzaghi's analysis or Scott's method using Undisturbed / Remoulded Samples recovered from field. The value of settlements has been obtained.

The studies reported herein i.e. C_u , Φ_u parameters, C_c and other characteristics of soil strata would provide the designer with necessary data for the selection of the type of foundation and thereby the design of the foundation.

2.0 FIELD WORK AND LABORATORY INVESTIGATIONS

2.1 Field Work

The number, type, location, size and depth of explorations of boreholes are dependent upon the nature and size of project and on the degree of complexity and critical nature of the surface conditions.

In the present case, the field work consists of advancing three bore holes at the site of U.P. Avas Avam Vikas Parishad, CD-14, Lucknow at Awadh Vihar Yojana, Sector-05 in Lucknow District as decided by the department. The borehole was of 12.5 cm. in diameter. Four boreholes (Nos.1, 3, 5 & 6) were explored up to 20.0m and two bore holes (Nos. 2 & 4) up to 30.0m below G.L. The field work consisted of drilling of bore hole, preparation of bore-log charts based on field identification, conducting standard penetration test (SPT) at every 1.5 m. depth. Disturbed and undisturbed samples were collected for various laboratory tests. The location of water table was also to be observed in the investigated bore holes.

2.2 Laboratory Investigations:

These were carried out on disturbed/undisturbed soil samples collected during the fieldwork for determination of moisture content, specific gravity, bulk and dry densities, triaxial tests (unconsolidated undrained), Direct Shear Tests and Oedometer tests using undisturbed samples, and classification tests including determination of Atterberg's limits on representative disturbed samples. A brief remarks on these tests are as follows:

Report checked & OK
R. K. Sanyal
7/3/17



Proposed site : Soil Test Report

(i) **Soil Classification Tests:**

These tests were performed as per IS: 2720(Part IV) 1965, IS: 1498-1970 and IS: 2720 (Part V)- 1970. The soil classification is based on Mechanical analysis and Atterberg's limits on disturbed representative samples from bore holes according to IS soil classification system. The results are reported in the form of bore log chart for the boreholes.

(ii) **Bulk Density, Moisture Content and Specific Gravity of Soils:**

These tests were carried out as per IS: 2720(Part-III/ Sec.-1 & 2, 1980), IS: 2720 (Part II),1973. The Bulk Density and Moisture content in the field were determined from undisturbed samples recovered from the liners and dry density was computed from these. Specific gravity of the soil of these samples was also determined in the laboratory. The results are given in bore log chart for the boreholes.

(iii) **Shear Strength Tests:**

These tests were performed as per IS: 2720 (Part-13)-1986 and IS: 2720 (Part-11)-1993. The Direct Shear tests and triaxial shear strength tests were carried out using at least three undisturbed / remoulded samples in each case. Strength envelopes were plotted to determine the values of shear strength parameters C_u and ϕ_u . These values are also given in the respective bore log charts.

(iv) **Consolidation Tests:**

These tests were carried out as per IS: 2720(Part-15)-1986. Consolidated tests were performed on undisturbed/remoulded samples from the given location as per above-mentioned IS code. The value of compression index C_c was obtained from a plot between void ratio (e) on natural scale and pressure (p) on logarithmic scale.

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flesaw
7/31/77



Uttarakhand



Proposed site : Soil Test Report

3.0 TEST RESULTS

The results of various tests conducted at site and in the laboratory are given in the bore-log charts. The location of borehole was decided by the agency.

4.0 DISCUSSION OF TEST RESULTS

The results for the various boreholes are discussed as follows:

4.1 Strata and their Engineering Properties:

The soil classification according to IS classification indicates presence of four types of strata viz. CI, CL, ML & SM. The general characteristics associated with these types of strata are given below:

4.1.2 Stratum CI:

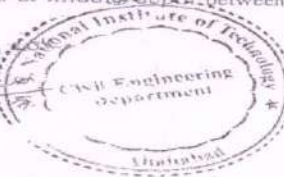
This stratum consists of silty clay with medium plasticity and also experience high volume changes when subjected to moisture fluctuations. Sometimes a little moisture can produce high differential settlements. This type of soil is more or less impervious in nature. This stratum was found between 6.0 m to 7.2m in bore hole No. 1. In bore hole No. 4, it was present at the top up to 2.5m depth, between 9.0m to 17.5m and at the bottom from 21.0m to depth of exploration of 30.0m. This stratum was also found at bottom depth from 18.0m to depth of exploration of 20.0m in bore hole No.5.

4.1.3 Stratum CL:

This type of soil is characterised by presence of inorganic clays of low plasticity. These soils have very low permeability and low compressibility. This stratum was encountered at middle depth between 6.5m to 13.5 in bore hole No.5 only.

Report checked

7/3/51



Utank



Proposed site : Soil Test Report

4.1.4 Stratum ML :

This stratum is characterized by presence of inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with none to low plasticity. It has none to low dry strength and exhibit a quick reaction. This stratum was observed with varying thicknesses at various depths in all the investigated bore holes. It has good bearing value in the natural condition. In general, this foundation soils are of semi-pervious to impervious in nature and it is suggested that measures to control permeability may be considered because it is susceptible to liquefaction.

4.1.5 Stratum SM:

The stratum SM contains fine sand with appreciable percentage of fines which are predominantly sand size. This strata is semi-impervious, has fairly good strength when compacted even in saturated condition. Further its susceptibility to volume changes such as shrinkage & swelling is little. At present site, this stratum was present only in bore hole No.6 between 13.0m to 17.0 m depth.

4.2 N - Value:

Standard penetration tests have been carried out and N-values are determined at every 1.5m depth and these have been reported in the bore log chart. At the present site N - values indicated that the consistency of soil is stiff at shallow depths and hard consistency at lower depths.

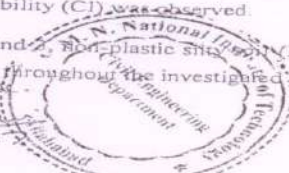
5.0 BEARING CAPACITY AND RECOMMENDATIONS

The sub soil investigation work was carried out to find the soil parameters in order to design the foundation for Multi-storeyed buildings (EWS & LIG) of U.P. Avas Avam Vikas Parishad, Construction Division-14, Lucknow at Awadh Vihar Yojana, Sector-05, in Lucknow District. Four boreholes (Nos. 1, 3, 5 & 6) were investigated at site up to a depth of 20.0m & the other two bore hole (Nos. 2 & 4) up to a depth of 30.0m from the existing ground level.

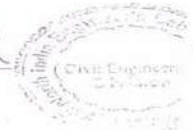
At the present site, in bore hole No. 1, non-plastic silty soil (ML) was found with varying thicknesses at different depths except from 6.0m to 7.2m depth where clay with medium compressibility (CI) was observed.

In bore hole Nos. 2 and 3, non-plastic silty soil (ML) was found with varying thicknesses at various depths throughout the investigated depth.

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7/3/11



Uttrank



Proposed site : Soil Test Report

In bore hole No. 4, clay with medium compressibility (CI) was present at top up to 2.5 m followed by non-plastic silty soil (ML) up to 9.0m depth. After this stratum, clay with medium compressibility (CI) was found up to 17.5m. Again, non-plastic silty soil (ML) was found up to 21.0m depth followed by clay with medium compressibility (CI) up to depth of exploration of 30.0m.

In bore Hole No. 5, non-plastic silty soil (ML) was present at the top up to 6.5m followed by clay with low compressibility (CL) up to 13.5m depth. After this stratum, again non-plastic silty soil (ML) was found up to 18.0m depth followed by clay with medium compressibility (CI) up to depth of exploration of 20.0m.

In bore hole No. 6, non-plastic silty soil (ML) was present at the top up to 13.0m with variable thicknesses from existing ground level followed by non-plastic silty sand (SM) up to 17.0m depth. After this stratum, again non-plastic silty soil (ML) was present up to depth of exploration of 20.0m.

At the present site, water table was encountered at a depth of 14.0m in all the investigated bore holes.

Based on soil test results and N-values, the net safe bearing capacity / allowable bearing pressure for a raft foundation placed at a depth of 1.5m, 3.0m and 4.5m below existing ground level comes out to be 11.0 t/m^2 , 13.0 t/m^2 and 15.0 t/m^2 respectively with respect to settlement. The allowable settlement was considered as 50mm.

Typical curves of grain size distribution, tri-axial test and direct shear test for each bore hole are presented after the bore-log charts.

Final load on foundation would be determined by the structural designer and final type & dimensions of the foundation for multi storeyed buildings for $\geq 11G$ would be decided by the design engineer using bore log charts.



Report checked by
R. K. Tewari
7/13/17

GEOTECHNICAL ENGINEERING LABORATORY
NORTH INDIA ENGINEERS' LAB & CONSULTANTS
(An ISO 9001:2008 Certified Company)
Shed No.62, Industrial Estate, M.N.N.I.T. Allahabad
Allahabad

Utkarsh
27/02/2017
(Er. Utkarsh Tiwari)
Director



Proposed site : Soil Test Report

Geotechnical Engineering Division
North India Engineers' Lab & Consultants
Shed No. 62, Industrial Estate, M.N.N.I.T. Allahabad

BORE LOG CHART

Site: U.P.A.V.P., Lucknow

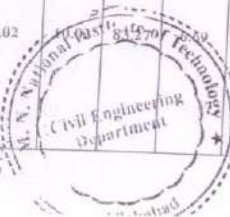
Structure: EWS, Multi Storeyed Building

Bore Hole No.: 1

Depth metre	SPT Value	Soil Description	Classification	Particle Size Distribution				Natural Moisture Content %	Bulk Unit Weight gm/cc	Dry Unit Weight gm/cc	Specific Gravity	Atterberg's Limits in %			Shear Strength Parameters		Compression Index (C _c)
				%								L.L.	P.L.	P.I.	C _u kg/cm ²	φ _a Degree	
				Gravel	Sand	Silt	Clay										
0.0																	
1.5	9	Non-Plastic Silty Soil	ML	1.56	6.76	88.75	2.93	10.6	1.94	1.75	2.64	Non-Plastic			0.03	18	---
3.0	18																
4.5	13																
6.0	18																
7.2		Clay with Medium Compressibility	CI	0.00	0.20	71.57	28.23	21.4	2.15	1.77	2.70	39	19	20	0.89	6	0.195
7.5	17	Non-Plastic Silty Soil	ML	0.78	28.02	70.06	1.14	20.3	2.16	1.80	2.64	Non-Plastic			0.02	19	---
9.0	20																
10.5	17																
12.0	28																
13.5	16																
15.0	11	Non-Plastic Silty Soil	ML	0.02				21.4	2.30	1.89	2.64	Non-Plastic			0.05	15	---
16.5	34																
18.0	37																
19.5	41																
20.0																	

*Water Table: 14.00 m

Soils checked ok
7/3/12



Ukrank



Dinesh
Testing Officer

Proposed site : Soil Test Report

Geotechnical Engineering Division
 North India Engineers' Lab & Consultants
 Shed No. 62, Industrial Estate, M.N.N.I.T. Allahabad

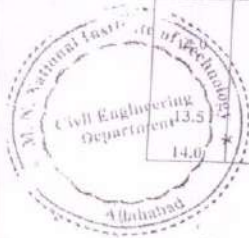
BORE LOG CHART

Site: U.P.A.V.P., Lucknow

Structure: EWS, Multi Storeyed Building

Bore Hole No.: 2

Depth metre	SPT Value	Soil Description	Classification	Particle Size Distribution							Natural Moisture Content %	Bulk Unit Weight gm/cc	Dry Unit Weight gm/cc	Specific Gravity	Atterberg's Limits in %			Shear Strength Parameters		Compression Index (Cc)
				%				L.L.	P.L.	P.I.					C _u kg/cm ²	φ _v Degree				
				Gravel	Sand	Silt	Clay													
0.0																				
1.5	27	Non-Plastic Silty Soil	ML	0.00	12.82	87.18	0.00	9.7	1.84	1.68	2.64	Non-Plastic			0.02	20	---			
3.0	18																			
4.5	17	Non-Plastic Silty Soil	ML	0.34	4.88	87.2	7.58	18.5	1.93	1.63	2.64	Non-Plastic			0.06	17	---			
6.0	13																			
7.5	12																			
9.0	18																			
10.5	50																			
11.0																				
		Non-Plastic Silty Soil	ML	1.04	36.96	61.01	0.99	22.05	2.08	1.70	2.64	Non-Plastic			0.03	19	---			
14.0	20																			



*Results checked by
 P. S. Anand
 7/3/17*



Uttam

Dinash contd...