



 QIBLA

Form No. 1 Solar Domestic Water Heater, Applied for Villas.		19/2/2012 v1
Solar Water Heater Scheme :		
<p>The size and performance of the solar system must be calculated using actual design and installation conditions taking into consideration all the affecting parameters including the collector slope angle and direction. Any changes that are incorporated into the system during construction shall be considered.</p>		
Average Daily Hot Water Consumption:		
<p>Average Daily Hot Water Consumption per Villa = No. of Toilets / Bathrooms 5 x 50 L = 25 + No. of WCs 1 x 30 L = 30 + No. of Kitchens 2 x 80 L = 160 215 L / day / villa</p>		
Design Parameters and Requirements:		
<p>Design parameters and requirements shall be according to circular No. 183/2011 and International Best Practices, with emphasis on the following:</p> <ol style="list-style-type: none"> Hot water storage tempa. = 60 °C. Average dry ambient temp. (Summer): 42 °C. Average dry ambient temp. (Winter): 14 °C. The minimum hot water storage tank capacity equal to seventy five percent (75%) of the total daily consumption of hot water. Back-up electrical immersion heater to be provided. The solar water heater system shall be installed, operated and maintained by a registered and licensed company by the Department of Economic Development and approved by Dubai Municipality. The solar water heater system shall be approved by Dubai Central Laboratory. 		
Undertaking:		
<p>I/we hereby commit to meet the full requirements of Circular No. 183/2011 issued by Dubai Municipality regarding Solar Water Heaters. This commitment without exception applies to the design, installation and commissioning of the Solar Water Heaters. The solar water heater system shall be installed, operated and maintained by a registered and licensed company by the Department of Economic Development and approved by Dubai Municipality. The solar water heater system shall be approved by Dubai Central Laboratory.</p> <p>It is understood that failure to comply with the regulations may also result in a fine or other penalty.</p>		
Notes:		
<p>1- This sheet shall be attached to the roof plan of water supply drawings, and uploaded with sewerage drawings in the plumbing folder. 2- No separate electric water heater shall be used. 3- Incase more than one type of typical villas (with different Average Daily Hot Water Consumption) is available, then additional sheet(s) for each type to be attached.</p>		
Applicant:		
Stamp		

Points designer engineer is responsible to check out	Confirmation of checking & revision by designer	Notes of designer engineer who checked out the points
Location of FIC is matching the certificate as attached in setting out plan , the depth is approved	checked	<input checked="" type="checkbox"/>
While determining the levels of inspection chambers/manholes, all of the outdoor ground levels, pipes lengths and slopes have been considered	checked	<input checked="" type="checkbox"/>
The drainage pipes and slopes for horizontal runs conform with the drainage standard notes	checked	<input checked="" type="checkbox"/>
All balconies and laundry rooms are provided with drain points and connected to the waste pipe system	checked	<input checked="" type="checkbox"/>
Bidet is connected to soil pipe system with deep U-trap	checked	No Bidet are available
The areas mentioned in the drainage fees receipt is matching with the total built up area (including external services)	checked	<input checked="" type="checkbox"/>
Incase of revision submission and there weren't any existing services available as per the approved NOC, then the drainage NOC and fees shall be renewed	checked	<input checked="" type="checkbox"/>
Drainage from swimming pool and backwash pumps shall not be connected to septic tank. Drain points to be provided for swimming pool deck and pump room.	checked	<input checked="" type="checkbox"/>
The drainage layout fit the drainage standard notes as well as DM building regulations manual	checked	<input checked="" type="checkbox"/>
Drainage drawings are attached in the following sequence: Drainage standard notes Setting out plan Ground floor plan Typical floors plan Roof plan Details	checked	<input checked="" type="checkbox"/>

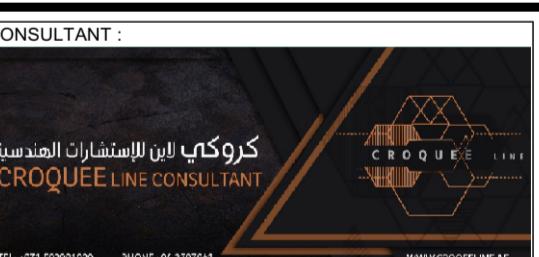
I the designer Engineer Marwa Mekbel ... Confirm that all mentioned points has been checked by me and they are all achieved in the attached drawings. I take full responsibility of any mismatching.

Eng. Signature

It is not allowed to make any modification or change to this document.

NOTE:-

CLIENT:
DISTRICT ONE - FZ



CONSULTANT:
PROPOSED VILLA (G + 1)

LOCATION: AL MERKADH **PLOT NO.** 3470861

DRAWING TITLE: DM DRAINAGE NOTES

JOB NO.	DATE:	SHEET NO.
	07/08/2022	DR-101
Sheet Size:	Scale:	
A2		
CHECKED BY:		NAME
Architecture		
Structure		
MEP		

THE CONSULTANT OF THE PROPOSED GROUND +1 FLOORS SHEIKH SUHAIR HOUSE AT PLOT NO. 2810416 & 2810812, DUBAI SHALL OBSERVE ADHERENCE TO THE GENERAL PROVISION OF THE BUILDING REGULATION AND COMPLIANCE WITH THE FOLLOWING NOTES :

STANDARD NOTES FOR BUILDING DRAINAGE

A) DOCUMENTATION

<input checked="" type="checkbox"/> A-1 DM DRAINAGE DEPARTMENT N O C NO: -----	DATED: -----
<input checked="" type="checkbox"/> A-2 DM DRAINAGE DEPARTMENT F I C -----	
<input checked="" type="checkbox"/> A-3 RECEIPT NO FOR SEW CONNECTION - N.A.	
<input checked="" type="checkbox"/> A-4 RECEIPT NO FOR STORM WATER CONNECTION - N.A.	
<input checked="" type="checkbox"/> A-5 TOTAL NO OF SEPTIC TANK - N.A.	
<input checked="" type="checkbox"/> A-6 TOTAL NO OF DM SEWERAGE CONNECTION - INO.	
<input checked="" type="checkbox"/> A-7 TOTAL NO OF DM STORM WATER CONNECTION - N.A.	
<input checked="" type="checkbox"/> A-8 LAST BUILDING PERMIT NO: -----	

B) PIPING

- 1- MATERIALS SHALL BE TO DM APPROVAL AND THE INSTALLATION SHALL BE ACCORDING TO BS 5572
- 2- ALL INTERNAL PIPING SHALL BE UPVC TO BS 4514 EXCEPT WASTE PIPING WHICH SHALL BE TO BS 5255. ALL U/G PIPING SHALL BE TO BS 4660
- 3- NO BENDS SHALL BE ALLOWED IN HORIZONTAL PIPES RUNNING UNDERGROUND.

RODDING EYES

- 1- ACCESS POINTS SHOULD BE CAREFULLY SITED TO ALLOW THE SERVICE ENTRY FOR CLEANING AND TESTING .
- 2- ALL VERTICAL STACKS SHALL BE PROVIDED WITH RODDING EYES AT JUNCTIONS ON EVERY FLOOR.
- 3- ALL HORIZONTAL DRAINAGE PIPES SHALL HAVE RODDING EYES AT POINTS OF CHANGE OF DIRECTION IN PIPES AS REQUIRED FOR EFFECTIVE MAINTENANCE
- 4- RODDING EYES SHALL BE PROVIDED WHERE MORE THAN ONE WC IS CONNECTED TO A HORIZONTAL SOIL PIPE
- 5- RODDING EYE IS TO BE PROVIDED WHERE THE DISTANCE BETWEEN ONE WC AND STACK OR MANHOLE IS MORE THAN 5 METERS.

STACKS

- 1- THE UPPER LIMIT OF STACK LOADING SHALL NOT BE MORE THAN A QUARTER FULL
- 2- FOR BUILDINGS OF LESS THAN 20 STOREYS HEIGHT, APPLIANCES LOCATED ON GR. FLOOR SHALL NOT BE CONNECTED TO VERTICAL STACK DISCHARGING AT GR. LEVEL
- 3- FOR BUILDINGS GREATER THAN 20 STOREYS APPLIANCES LOCATED AT GR. FLOOR AND FIRST FLOOR SHALL NOT BE CONNECTED TO VERTICAL STACK DISCHARGING AT GR. LEVEL
- 4- CONNECTION FROM THE APPLIANCES LINES ON ANY FLOOR AND THE MAIN PIPE SHALL BE IN VERTICAL STAKES ONLY.
- 5- FOR ALL BENDS THAT ARE AT BASE OF STACKS, PROVIDE A 45 OR 90 DEGREES LONG RADIUS TYPE ELBOW

VENT PIPES

- 1- IN SINGLE STACK SYSTEM, PROVIDE A SEPARATE VENTILATION FOR INDIVIDUAL CONNECTIONS FROM THE WC, FLOOR TRAP, SINK, ETC.
- 2- VENT PIPES FROM MANHOLES AND VERTICAL STACKS SHALL BE EXTENDED 2 METERS ABOVE THE ROOF, THE END OF WHICH SHALL BE FITTED WITH VENT COWLS.

RESTRICTIONS

- 1- THE DRAINAGE PIPES SHALL BE MADE NOT TO RUN THROUGH ELECTRIC ROOMS OR ELECTRIC SUB-STATIONS
- 2- DIRECT CONNECTION OF WASTE SYSTEM FROM A FLOOR TRAP TO A FLOOR TRAP SHALL NOT BE PERMITTED.
- 3- NO DRAIN PIPES SHALL BE CAST INTO AN RCC STRUCTURAL ELEMENT WITHOUT PRIOR APPROVAL FROM DM STRUCTURAL ENGINEER
- 4- TO ALLOW THE DRAIN PIPES TO PASS THROUGH ANY STRUCTURAL ELEMENT IN BUILDING A CAST IRON SLEEVE IS FIRST FITTED WITHIN THE STRUCTURAL ELEMENT SUCH A BY PASS. THE SLEEVE SHALL OFFER A TOLERANCE OF AT LEAST 50 MM FOR EASE OF INSTALLATION OF THE PIPE. THE GAP BETWEEN THE PIPE AND THE SLEEVE SHALL THEN BE FILLED WITH SUITABLE SEALANT.
- 5- NOT TO PLACE UNDERGROUND PIPE LINE WITH TOP OF PIPE LESS THAN 600 MM BELOW FFL UNLESS CONCRETE STYLE 150 MM THICK SHALL BE PROVIDED AROUND TO PROTECT THE PIPE
- 6- TYPICAL OUTLET SIZE (MM) 7- STACK SIZES SHALL BE AS FOLLOWS: - 8- STACK SIZES SHALL BE AS FOLLOWS: -

WC	100	SOIL PIPE	100	SOIL PIPE	150
V. BASIN	32	WASTE PIPE	100	WASTE PIPE	150
KITCHEN SINK	40	VENT PIPE	75	VENT PIPE	100
FLOOR DRAIN	75	RAIN WATER PIPE	100	RAIN WATER PIPE	100
BATH TUB/SHOWER	40	BALCONY DRAIN PIPE	50	BALCONY DRAIN PIPE	50
WASHING M/C	40	A/C DRAIN PIPE	32	A/C DRAIN PIPE	32
BALCONY DRAIN	50				

C) MANHOLES

- 1- THE MANHOLE SCHEDULE SHALL BE ARRANGED IN THE MANNER SHOWN BELOW , THE MANHOLE INVERT LEVEL (I L) , COVER LEVEL (C L) DEPTH AND DISTANCE BETWEEN MANHOLES SHALL BE REFERENCED FROM D.M.C , F.I.C USING DM'S DATUM AND ALL UNITS SHALL BE IN MM SYSTEM

MH NO	C L	I L	DISTANCE TO NEXT MH	DEPTH	COVER TYPE	REMARK
D M C						REFER TO DRG NO. 4/27
F I C						
MH NO						

- 2- A SKETCH SHOWING THE RELATIVE LEVEL BETWEEN F.I.C AND BUILDING MANHOLES SHALL BE PROVIDED
- 3- THE INVERT LEVEL OF THE EXTERNAL DRAINAGE SYSTEM SHALL BE DETERMINED BY THE CONSULTANT TAKING INTO CONSIDERATION THE DRAINAGE CONNECTION LEVEL TO MATCH THAT OF F.I.C. IN CASE OF N.O.C. THE DEEP OF LAST MANHOLE SHALL BE LESS THAN 1200 MM.
- 4- THE DEPTH OF FIRST MANHOLE SHALL BE AT LEAST 450 MM
- 5- SLOPES FOR HORIZONTAL RUNS SHALL BE AS FOLLOWS: FOR 100 MM - 1:60 FOR 150 MM - 1:90 FOR 200 MM - 1:120
- 6- MANHOLES AND ACCESS CHAMBERS SHALL BE LAY OUT ACCORDING TO CONSULTANT'S SCHEME., COVERS PROVIDED SHALL BE SUITABLE FOR THE LOADS THEY ARE SUBJECT TO, AND IN ACCORDANCE WITH BS 497
- 7- ACUTE ANGLE CONNECTIONS SHALL NOT BE ALLOWED WITHIN JUNCTION MANHOLES.
- 8- AT A MH THE TOPS OF ALL SEWERS SHOULD BE AT THE SAME LEVEL SO THAT THE PIPES OF SMALLER DIAMETER ARE NOT FLOODED WHEN THE BIGGER PIPES ARE RUNNING FULL
- 9- BACKDRAF SHALL BE PROVIDED WHEN THE LEVEL DIFFERENCE BETWEEN INCOMING AND MAIN SEWER IS CONSIDERABLE
- 10- AN INSPECTION CHAMBER / MANHOLE / GULLY TRAP CONSTRUCTED IN COVERED AREA SHALL BE DRY TYPE AND PROVIDED WITH RECESSED DOUBLE SEAL TYPE COVER.
- 11- ANY MANHOLE LOCATED IN GARAGE, DRIVEWAY OR OTHER TRAFFIC AREAS SHALL BE PROVIDED WITH HEAVY DUTY COVERS.
- 12- IF INSPECTION CHAMBERS / MANHOLES ARE IN AGRICULTURAL LAND, MANHOLE COVERS SHOULD BE RAISED 75 MM ABOVE THE NATURAL GROUND LEVEL.
- 13- DISTANCE BETWEEN MH TO MH SHALL NOT EXCEED 15 METERS IN VILLAS AND BUILDINGS
- 14- MINIMUM REQUIREMENT FOR MANHOLE VENTING SHALL BE THE PROVISION OF VENT PIPE TO FIRST AND LAST MANHOLES OF DRAINAGE LINE. THESE VENT PIPES SHALL BE 100 MM BELOW COVER LEVEL.
- 15- THE SITING OF ANY MANHOLE SHALL BE KEPT AWAY FROM UNDERGROUND WATER TANK BY A DISTANCE NOT LESS THAN THE DEPTH OF THE WATER TANK.

SUMP PUMP

- 1- IN BASEMENT SAND TRAP WITH PVC BUCKET SHALL BE PROVIDED JUST BEFORE END CONNECTION OF CARE PARK DRAIN TO THE SUMP PUMP PIT AND THE RAMP DRAIN CHANNEL
- 2- IF A BASEMENT SUMP PUMP IS FOR RAIN WATER COLLECTION ONLY FROM BASEMENT, CONNECT ONE WASTE PIPE FROM THE NEAREST TOILET. TO THE BASEMENT DRAINAGE LINE TO MAKE IT ALWAYS WET.
- 3- SUMP PUMP SERVICE ONLY THE BASEMENT DRAIN AND SEWERAGE

MANHOLES CONSTRUCTION

- 1- ALL INSPECTION CHAMBERS/MANHOLES SHOULD BE BUILT ON BED OF CEMENT CONCRETE 1:4:6 THE THICKNESS OF THE CONCRETE SHALL BE 150 MM FOR MANHOLES UP TO 1000 MM DEEP AND 200 MM FOR DEPTHS ABOVE 1000 MM
- 2- WHERE MANHOLE / INSPECTION CHAMBERS ARE CONSTRUCTED BELOW GROUND WATER TABLE , COMPLETE CONSTRUCTION SHALL BE EITHER IN WATERPROOFED RCC. OR IN G.R.P.
- 3- ALL MAIN LINE CHANNELS SHALL BE LOCATED IN THE CENTER OF THE MANHOLES
- 4- BENCHING OF INCOMING BRANCHES SHOULD BE INCLINED TOWARDS THE MAIN DIRECTION OF FLOW .
- 5- DIAMETER OF SEMI-CIRCULAR CHANNEL IN THE BOTTOM OF MANHOLE SHALL BE EQUAL TO THAT OF THE INCOMING SEWER DIAMETER.
- 6- THE SIDES OF CHANNELS IN MANHOLE SHALL BE EXTENDED VERTICALLY TO THE SAME LEVEL OF THE SOFFIT OF THE PIPE
- 7- THE BENCHING IN INSPECTION CHAMBER/ MANHOLES SHOULD HAVE SMOOTH SURFACE CEMENT PLASTER
- 8- MANHOLES SIZES SHALL BE AS FOLLOWS:-

MANHOLES DEEP MM	MANHOLES SIZE MM	MANHOLES COVER MM
UP TO 1300	600X600	600X600
FROM 1301 TO 1700	800X800	600X600
FROM 1701 TO 2500	1000	600X600
FROM 2501 TO 4000	1500	600X600

ALL 1000 & 1500 MANHOLE SHALL HAVE G.R.P. LININGS

F I C (THE LAST MANHOLE)

- 1- F I C SHALL BE CONSTRUCTED IN CLOSE PROXIMITY WITH THE COMPOUND WALL AND OPPOSITE TO DM CHAMBER/MANHOLE AND THE COVER SHOULD BE DUCTILE IRON WITH 6MM THICK GRP PUSH FIT SEALING PLATE, THIS MANHOLE SHALL HAVE ONLY ONE INCOMING CONNECTION AND WORK BY GRAVITY ONLY
- 2- IN CASE OF THERE ARE NO PROPOSAL OF FUTURE CONNECTION FROM DM DRAINAGE DEP. THE FUTURE CONNECTION SHALL BE IN LESS WIDTH ROAD AND THE MAX DEPTH SHALL BE 1200 MM.

D) MISCELLANEOUS

RAIN WATER DRAINAGE

- 1- THE DRAINAGE OF ROOFS AND PAVED AREAS SHALL BE ACCORDING TO BS 6367
- 2- RAIN WATER PIPES ARE NOT TO BE CONNECTED TO SEWER LINES. THEY SHALL FREE DISCHARGE ABOVE GROUND
- 3- ALL DTS. 0.4 X 4 M & LESS > SHOULD HAVE FLOOR TRAPS FOR RAINWATER CONNECTED TO THE NEAREST GULLY TRAP OR WASTE STACK. OTHER DTS. SHALL HAVE RW DRAIN FOR RAIN WATER WHICH IS FREE DISCHARGE TO OUTSIDE.
- 4- FOR ALL AIR WELLS, ACCESS DOORS SHOULD BE PROVIDED AT THE LOWER LEVEL OF THE WELL .
- 5- FOR PROJECT HAVING LARGE RAIN CATCHMENT AREAS, RAIN WATER SCHEME SHALL BE DESIGNED TO BS 6367 AND DM APPROVAL.

GREASE TRAPS AND OIL INTERCEPTORS

- 1- ALL COMMERCIAL KITCHENS AND COMMUNAL ACCOMMODATION KITCHENS SHALL HAVE HEAVY DUTY GREASE TRAPS PROVIDED ACCORDING TO DM REGULATIONS.
- 2- FOR VEHICLE WASHING AND SERVICE STATIONS, OIL INTERCEPTORS MUST BE PROVIDED AS PER DM REGULATIONS.

SWIMMING POOLS

- 1- DRAINAGE FOR THE SWIMMING POOLS AND BACKWASH PUMPS SHALL BE SHOWN ON SEPARATE DRAINAGE LAYOUTS PLAN. AND THE DRAINAGE LINE SHALL BE SHOWN ON THE RELEVANT DRAINAGE PLAN
- 2- FOR SWIMMING POOLS ON THE ROOF OR UPPER FLOORS PROVIDE SEPARATE 2" Dia. PIPE (AFTER PROVIDING REGULATING VALVE) TO THE GROUND FLOOR MANHOLE CONNECTION CONNECTION TO BASEMENT SUMP PUMP SHALL NOT BE ALLOWED

PROVISION FOR FUTURE CONNECTION

- 1- SHOP FACILITIES IN BUILDINGS SHALL HAVE WP. & VP CONNECTION PROVISIONS FOR FUTURE WITH APPROVED GRATING AS PER DM DETAILS

SAFETY AND HEALTH CONSIDERATIONS:

- 1- WINDOW A/C SHALL BE PROVIDED WITH GRP. TRAYS HAVING DRAINAGE FACILITY
- 2- ALL A/C & BALCONY DRAINS SHALL BE CONNECTED TO WASTE PIPE SYSTEM VIA THE NEAREST FLOOR TRAP OR WASTE STACK.
- 3- FLEXIBLE POLYETHYLENE DRAIN PIPES SHALL NOT BE USED FOR A/C CONDENSED DRAIN PIPING
- 4- COMMUNAL AND PUBLIC TOILETS IN INDUSTRIAL AND COMMERCIAL ESTABLISHMENT DORMITORIES AND EDUCATION INSTITUTES SHALL BE FURNISHED WITH ASIAN TYPE WC IN PROPORTION NOT LESS THAN 75% OF TOTAL NUMBER OF WC REQUIRED IN ADDITION ,PUBLIC BUILDING SHALL HAVE PROVISION FOR TOILET FACILITIES FOR DISABLED PERSONS
- 5- ALL FLOOR DRAIN SHALL HAVE MINIMUM 75 MM DEEP SEAL
- 6- FLOOR DRAINS SHALL BE PROVIDED IN ALL GARAGE ROOMS IN ALL FLOORS AND PUMP ROOMS AND ALL GARAGE ROOMS
- 7- ALL WATER SUPPLY PIPES SHALL BE INSTALLED AT LEAST 1.0 M AWAY FROM THE SEWER PIPE LINE SEPTIC TANK OR SOAKAWAY.
- 8- URINALS SHALL BE CONNECTED TO SOIL PIPES.

SYSTEM TEST

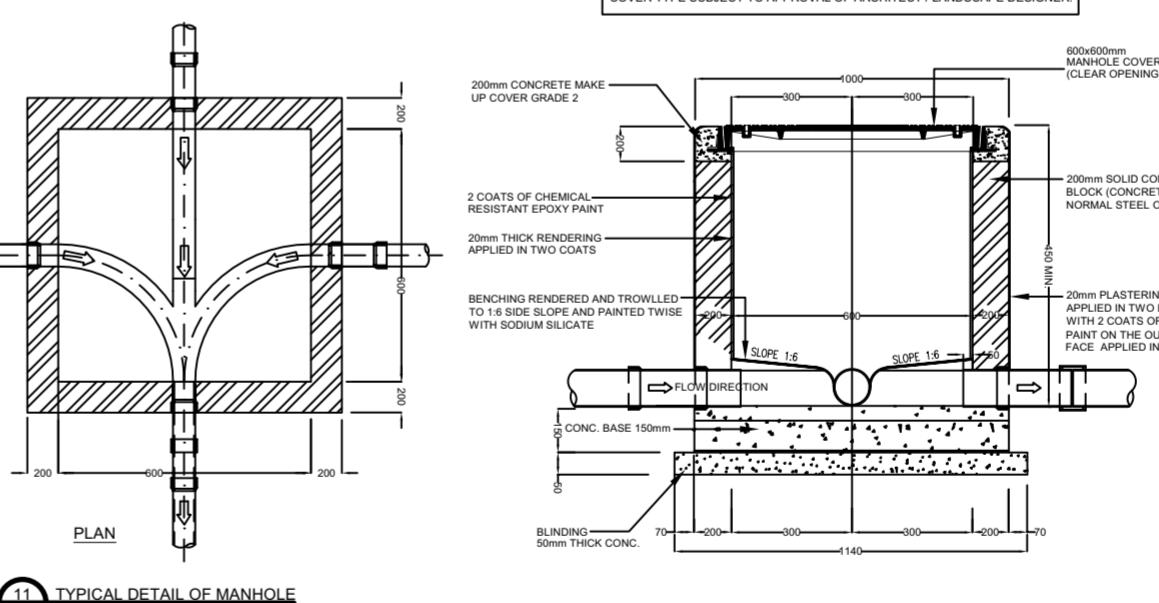
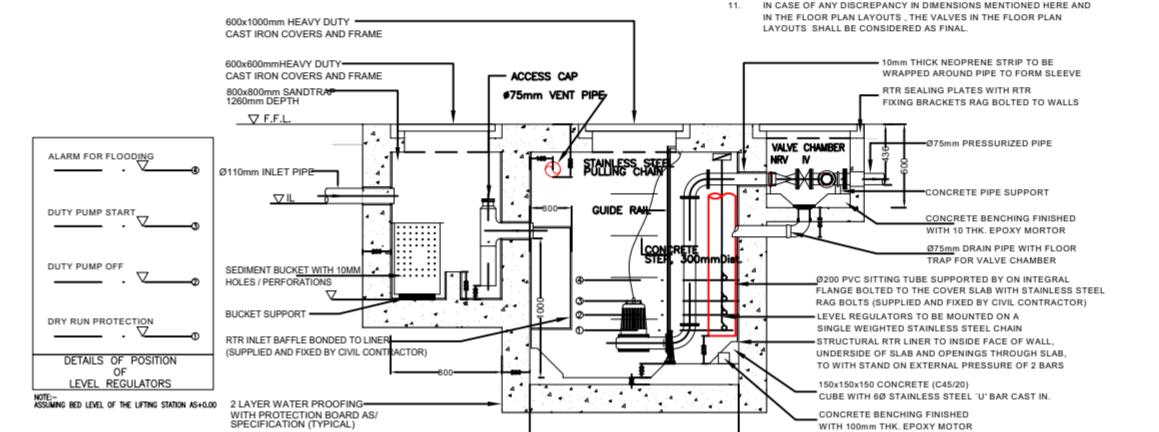
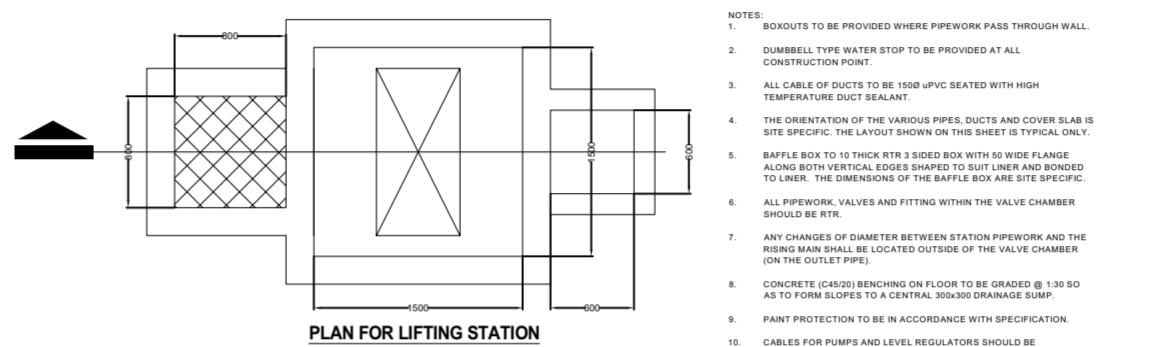
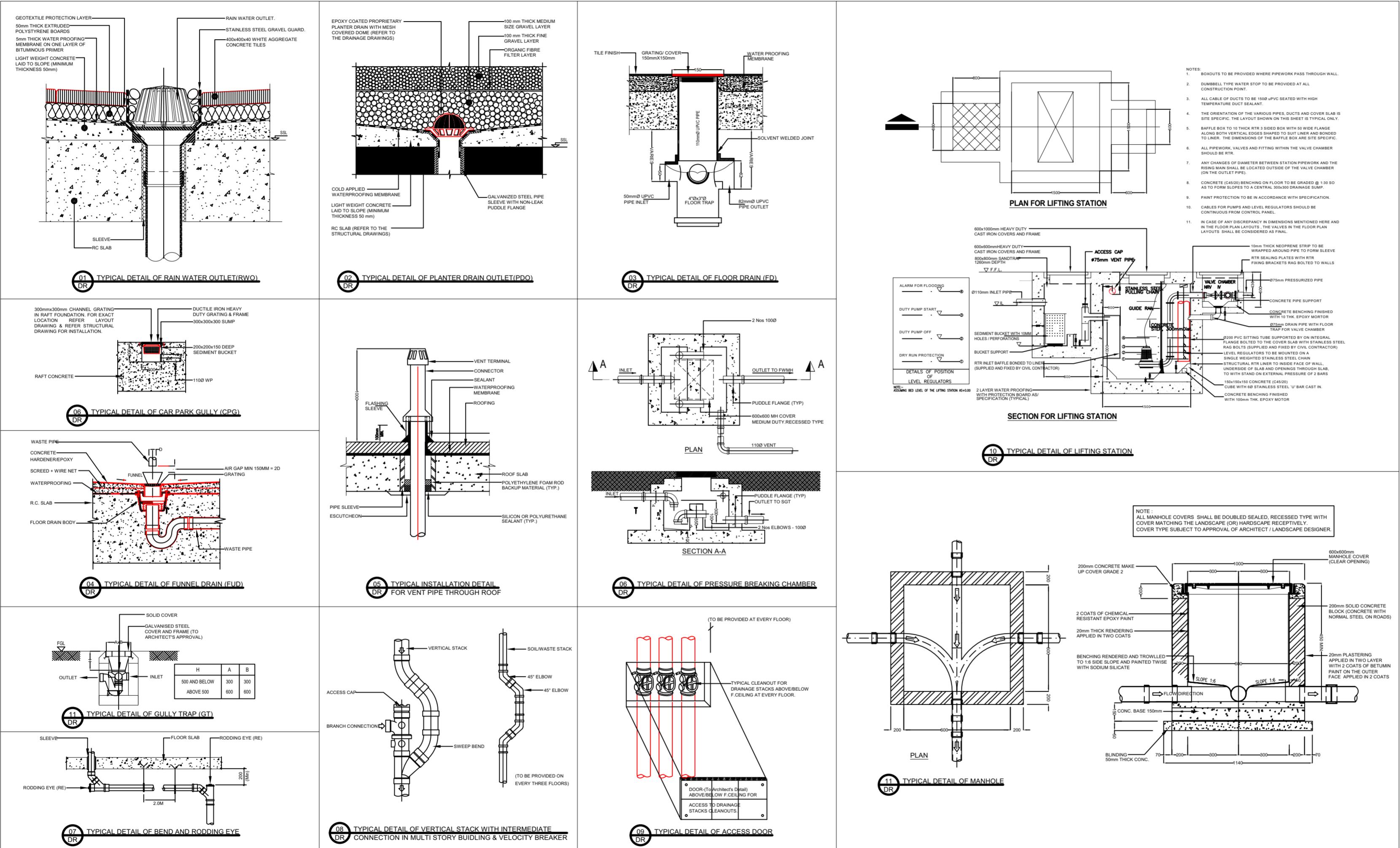
- 1- WATER AND AIR TESTS SHALL BE CARRIED OUT AFTER THE PIPES ARE INSTALLED AND CONSULTANT CERTIFICATE SHALL BE CERTIFICATE SHALL BE SUBMITTED TO DM ENGINEERS.

E) SEPTIC TANKS, SOAKAWAY AND HOLDING TANKS

- D-1 SEPTIC TANK AND SOAKAWAY SHALL BE CONSTRUCTED AND SELECTED TO DM DETAILS AND SHALL BE ACCORDING TO BS 6297
- D-2 THE FOUNDATION LEVEL OF THE BASE OF THE SOAKAWAY SHALL BE KEPT AT LEAST 1 M ABOVE THE WINTER WATER TABLE.
- D-3 THE FLOOR AREA OF THE SOAKAWAY SHALL BE DETERMINED ACCORDING TO THE 'PERCOLATION RATE IN ACCORDANCE WITH APPROPRIATE TEST IN THE BS 6297'
- D-4 LOCATIONS OF SEPTIC TANK AND SOAKAWAY SHOULD SHOWN ON SETTING OUT PLANS AND ON A GENERAL FOUNDATION LAYOUT PLANS.
- D-5 SOAKAWAY SHALL BE 1000 MM AWAY FROM THE SEPTIC TANK PLACED AT LEAST.
- D-6 SEPTIC TANK & SOAK AWAY SHOULD BE CONSTRUCTED AT LEAST 3 MS AWAY FROM ANY FOOTING FOR A BUILDING OR A BOUNDARY WALL AND SHOULD BE CONSTRUCTED FROM SOLID BLOCK WITH A PROVISION OF PROPER INSULATION FOR THE SEPTIC TANK.
- D-7 IN CASE THERE IS A NEED TO CONSTRUCT THESE TANKS AT A DISTANCE LESS THAN 3 MS AND MORE THAN 1 MS FROM ADJACENT FOOTINGS THE SEPTIC TANK SHOULD BE STRUCTURES FROM REINFORCED CONCRETE WITH A PROVISION OF PROPER INSULATION TO PREVENT ANY LEAKAGE FRUM THE TANK
- D-8 IF THE SEPTIC TANK & SOAK AWAY ARE TO BE FOUNDED AT A LOWER LEVEL THAN THAT OF ADJACENT FOOTING THEY SHOULD BE CONSTRUCTED FIRST.
- D-9 IF SEPTIC TANK CONSTRUCTED FROM FIBERGLASS MATERIAL THE DIMENSION SHALL BE THE SAME ,THE THICKNESS SHALL NOT LESS THAN 6 MM AND IT SHOULD BE INCASED WITH PROPER PROTECTION SOLID BLOCKS .
- D-10 PROPER INSULATION SHOULD BE PROVIDED FOR FOUNDATIONS OF BUILDINGS IN SUCH CIRCUMSTANCES FOR PROTECTION AGAINST SULFATES .
- D-11 SOAKAWAY SHOULD BE FILLED WITH BOULDERS OF SIZE 75 MM TO 100 MM
- D-12 GRP SEALING PLATE SHALL BE PROVIDED FOR THE LAST MANHOLE BEFORE THE SEPTIC TANK AND THE MANHOLE FOR THE FUTURE CONNECTION BEFORE THE DM SEWER LINE
- D-13 SIDE LEAKAGE FROM SOAK AWAY SHOULD BE PREVENTED OF CONSTRUCTED AT THE SAME LEVEL OF ADJACENT FOOTING OF A BUILDING OR A BOUNDARY WALL

Dubai Municipality

المخططات المعتمدة
3470861 رقم الملف
439837



NOTE:-
Design method 1. IN (D.B.C)

CLIENT:
DISTRICT ONE - FZ



PROJECT:
PROPOSED VILLA (B+G + 1+ROOF)

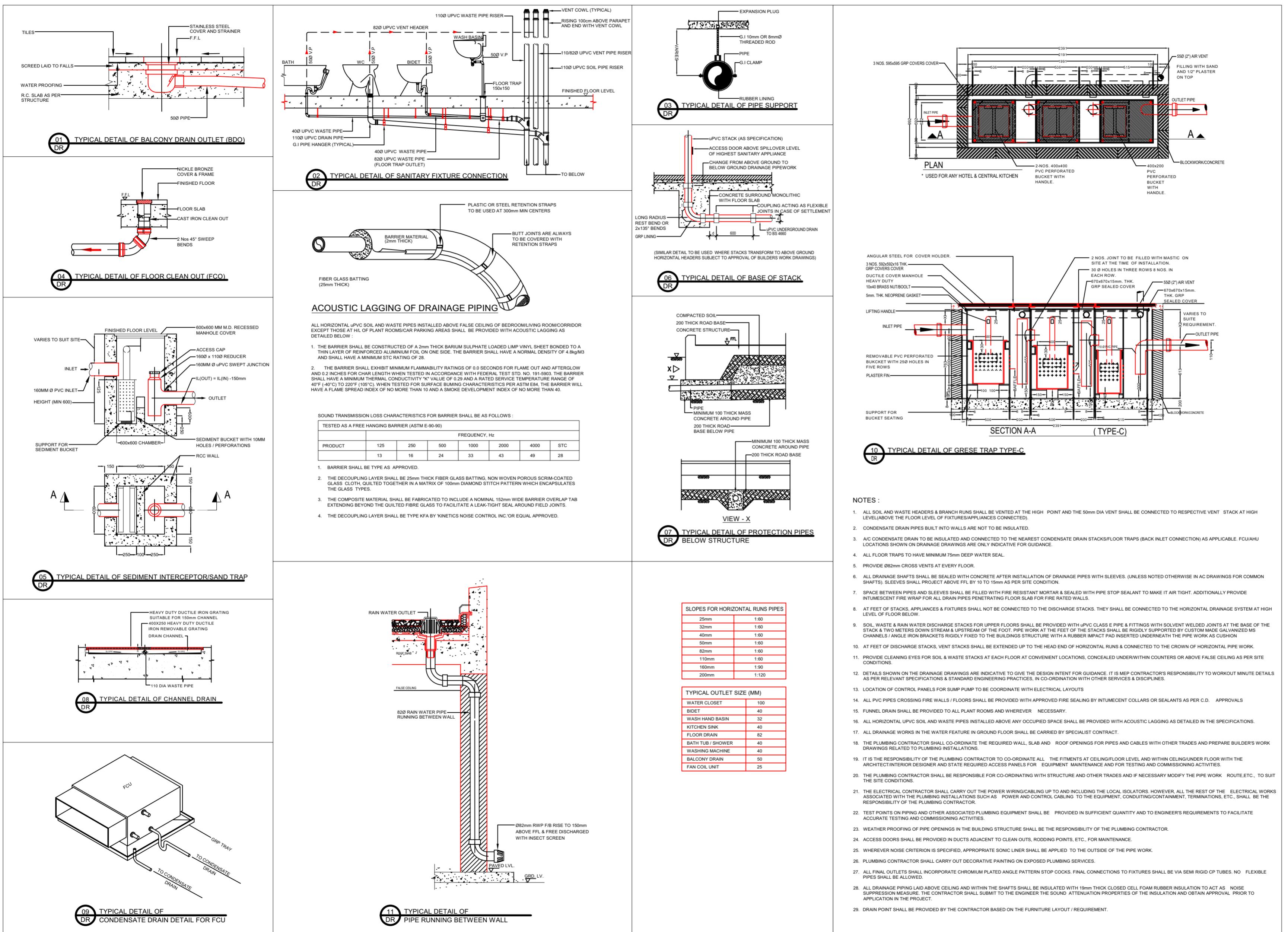
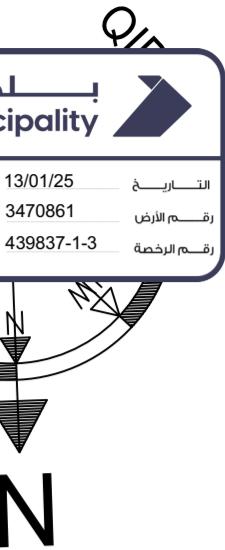
LOCATION:
AL MERKADH PLOT NO.
3470861

DRAWING TITLE:
STANDARD DETAIL & NOTES

JOB NO. DATE: 07/08/2022 SHEET NO.

Sheet Size: Scale: A2 DR-102

CHECKED BY:	N A M E	R E G . N O .
Architecture		
Structure		
M E P		



NOTE:-
Design method 1. IN (D.B.C)

CLIENT:
DISTRICT ONE - FZ



PROJECT:
PROPOSED VILLA (B+G + 1+ROOF)

LOCATION:
AL MERKADH PLOT NO.
3470861

DRAWING TITLE:

STANDARD DETAIL & NOTES

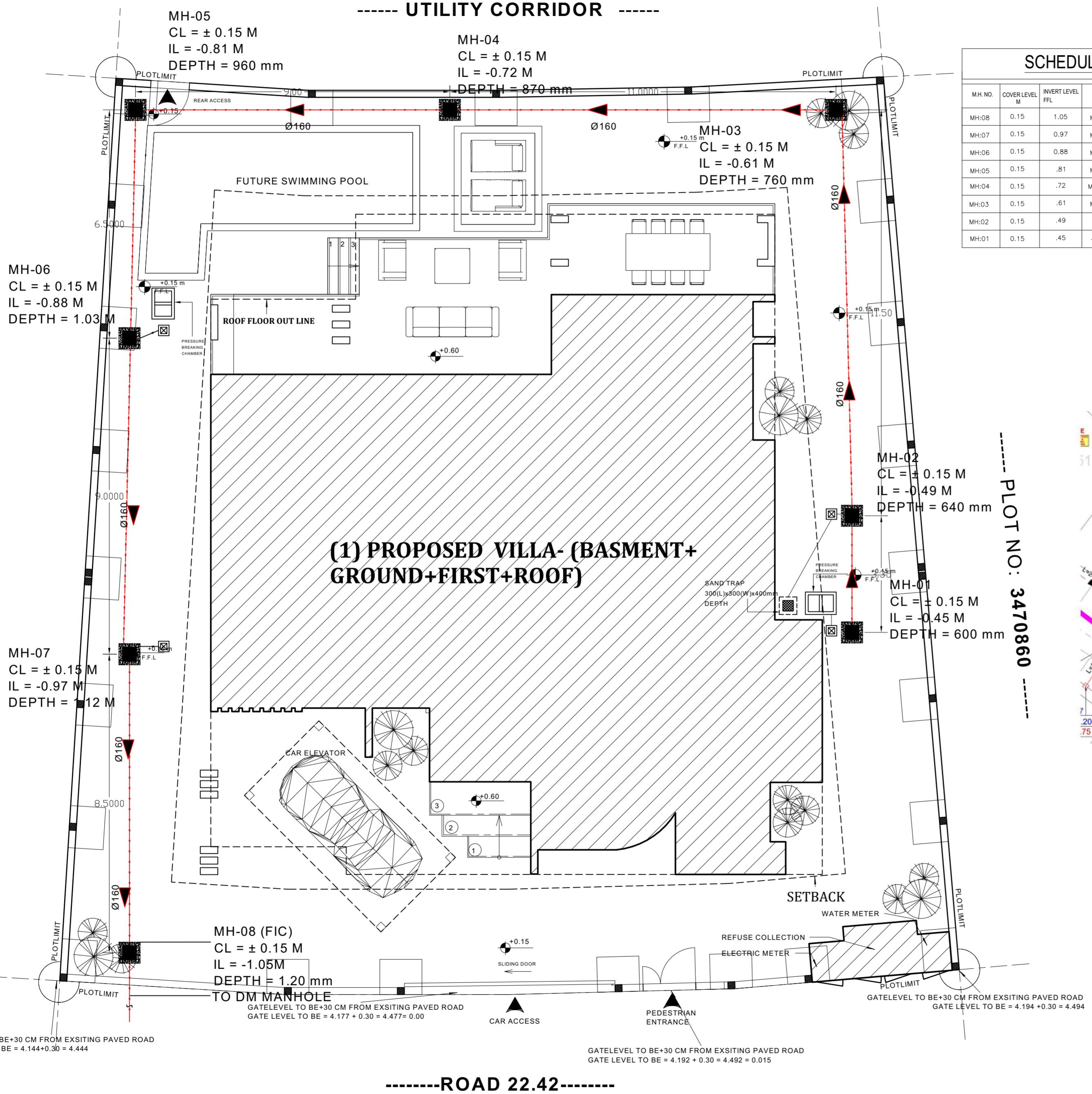
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07/08/2022

Sheet Size: Scale:
A2

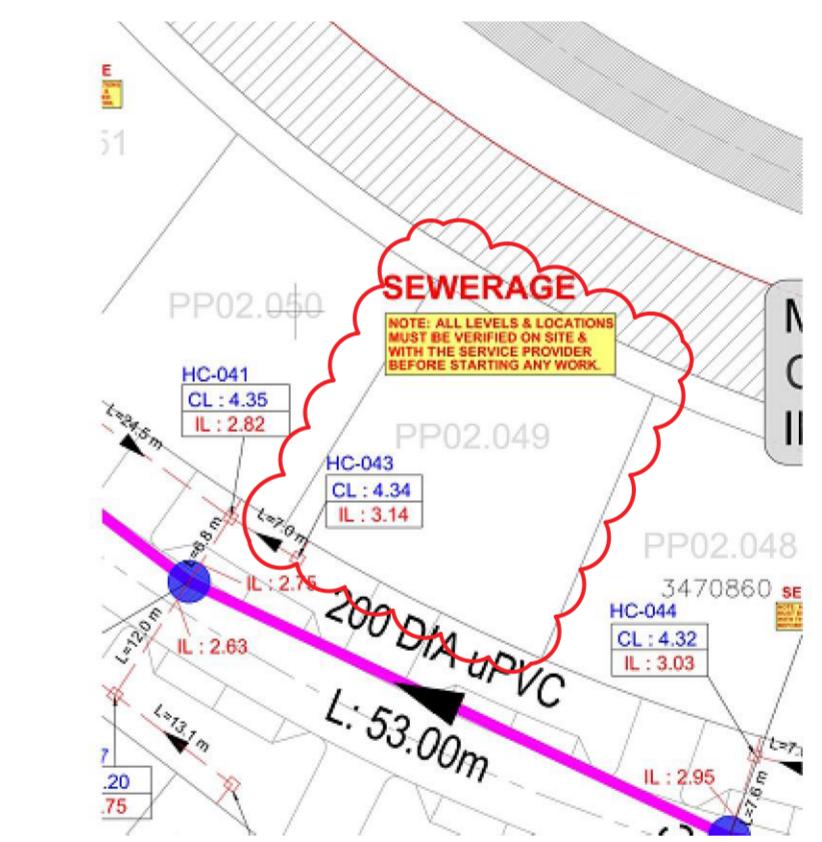
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DR-103

CHECKED BY: NAME REG. NO.
Architecture
Structure
MEP

PLOT NO: 3470862



PLOT NO: 3470860



DRAINAGE LEGEND:-		
FT	FLOOR TRAP	
FCO	FLOOR CLEAN OUT	
RWO	RAIN WATER OUTLET	
BDO	BALCONY DRAIN OUTLET	
FUD	FUNNEL DRAIN	
IRE	PLANTER DRAIN OUTLET	
ST	RODDING EYE	
GT	SAND TRAP	
RWP	MANHOLE	
SP	GULLY TRAP	
VP	RAIN WATER PIPE	
WP	SOIL PIPE	
CDP	VENT PIPE	
BDP	WASTE PIPE	
PDP	CONDENSATE DRAIN PIPE	
CPD	BALCONY DRAIN PIPE	
F/A	PLANter DRAIN PIPE	
T/A	CAR PARK DRAIN PIPE	
F/B	FROM ABOVE	
T/B	TO ABOVE	
L/L	FROM BELOW	
H/L	TO BELOW	
DTL	LOW LEVEL	
RTHL	HIGH LEVEL	
FFL	DROP TO LOW LEVEL	
	RISE TO HIGH LEVEL	
	FINISHED FLOOR LEVEL	

Dubai Municipality

المخططات المعتمدة
رقم المأذون
رقم المراقب
رقم الرخصة

13/01/25
3470861
439837-1-3

NOTE:-
Design method 1. IN (D.B.C)

CLIENT:
DISTRICT ONE - FZ

CONSULTANT:
CROQUE LINE CONSULTANT

PROJECT:
PROPOSED VILLA (B+G + 1+ROOF)

LOCATION: AL MERKADH PLOT NO. 3470861

DRAWING TITLE: SITTING LAYOUT PLAN

JOB NO. DATE: 07/08/2022 SHEET NO. DR-104

Sheet Size: A2 Scale: 1:500

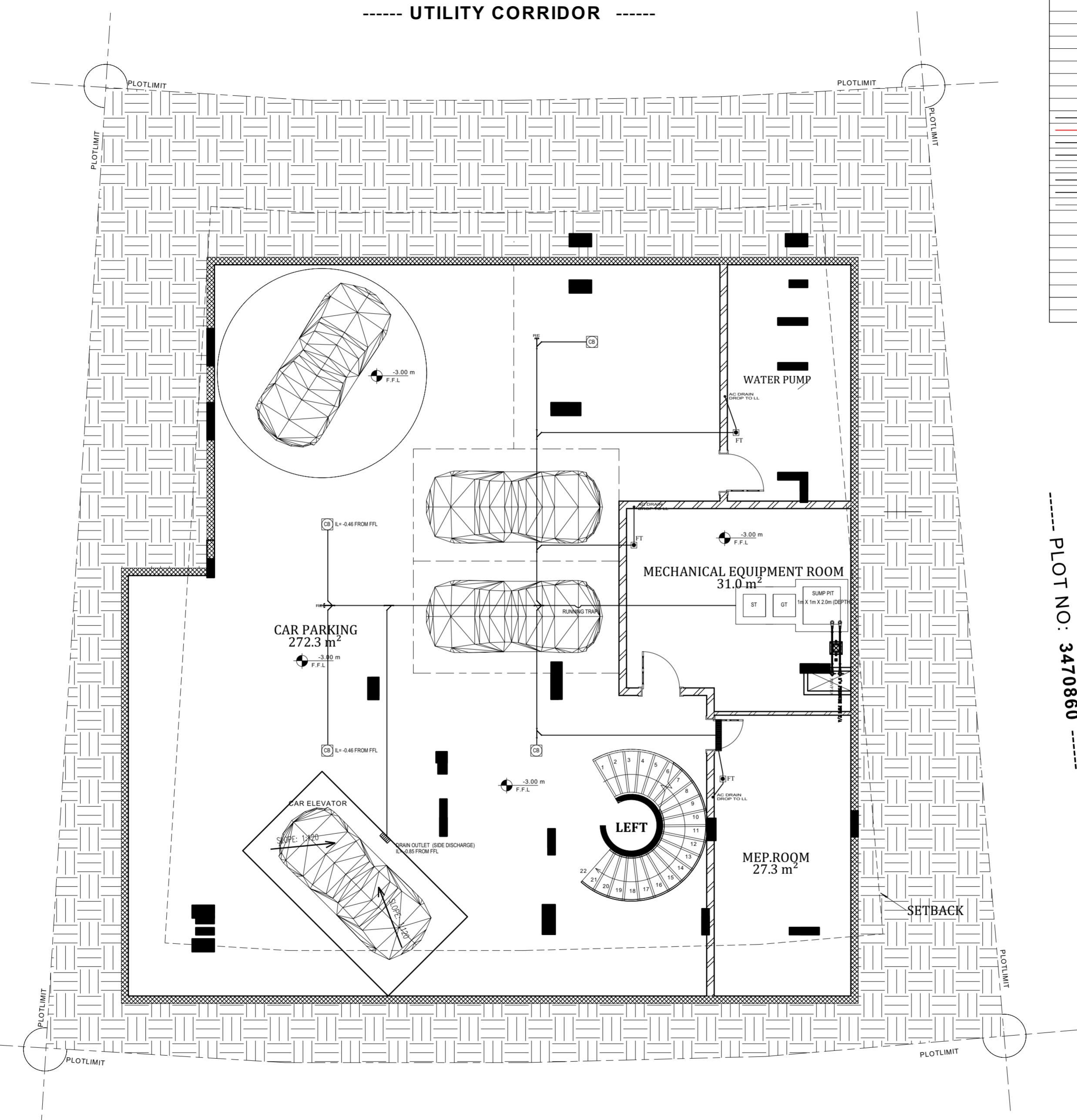
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Architecture

Structure

MEP

----- PLOT NO: 3470862 -----



DRAINAGE LEGEND:-	
FT	FLOOR TRAP
FCO	FLOOR CLEAN OUT
RWO	RAIN WATER OUTLET
BDO	BALCONY DRAIN OUTLET
FUD	FUNNEL DRAIN
PDO	PLANTER DRAIN OUTLET
RE	RODDING EYE
ST	SAND TRAP
MH	MANHOLE
GT	GULLY TRAP
RWP	RAIN WATER PIPE
SP	SOIL PIPE
VP	VENT PIPE
WP	WASTE PIPE
CDP	CONDENSATE DRAIN PIPE
BDP	BALCONY DRAIN PIPE
PDP	PLANTER DRAIN PIPE
CPD	CAR PARK DRAIN PIPE
F/A	FROM ABOVE
T/A	TO ABOVE
F/B	FROM BELOW
T/B	TO BELOW
L/L	LOW LEVEL
H/L	HIGH LEVEL
DTLL	DROP TO LOW LEVEL
RTHL	RISE TO HIGH LEVEL
FFL	FINISHED FLOOR LEVEL

Dubai Municipality
المخططات المعتمدة
ادارة ترخيص المباني
13/01/25
3470861
439837-1-3

----- N ----- Z -----

NOTE:-
Design method 1. IN (D.B.C)

CLIENT:
DISTRICT ONE - FZ

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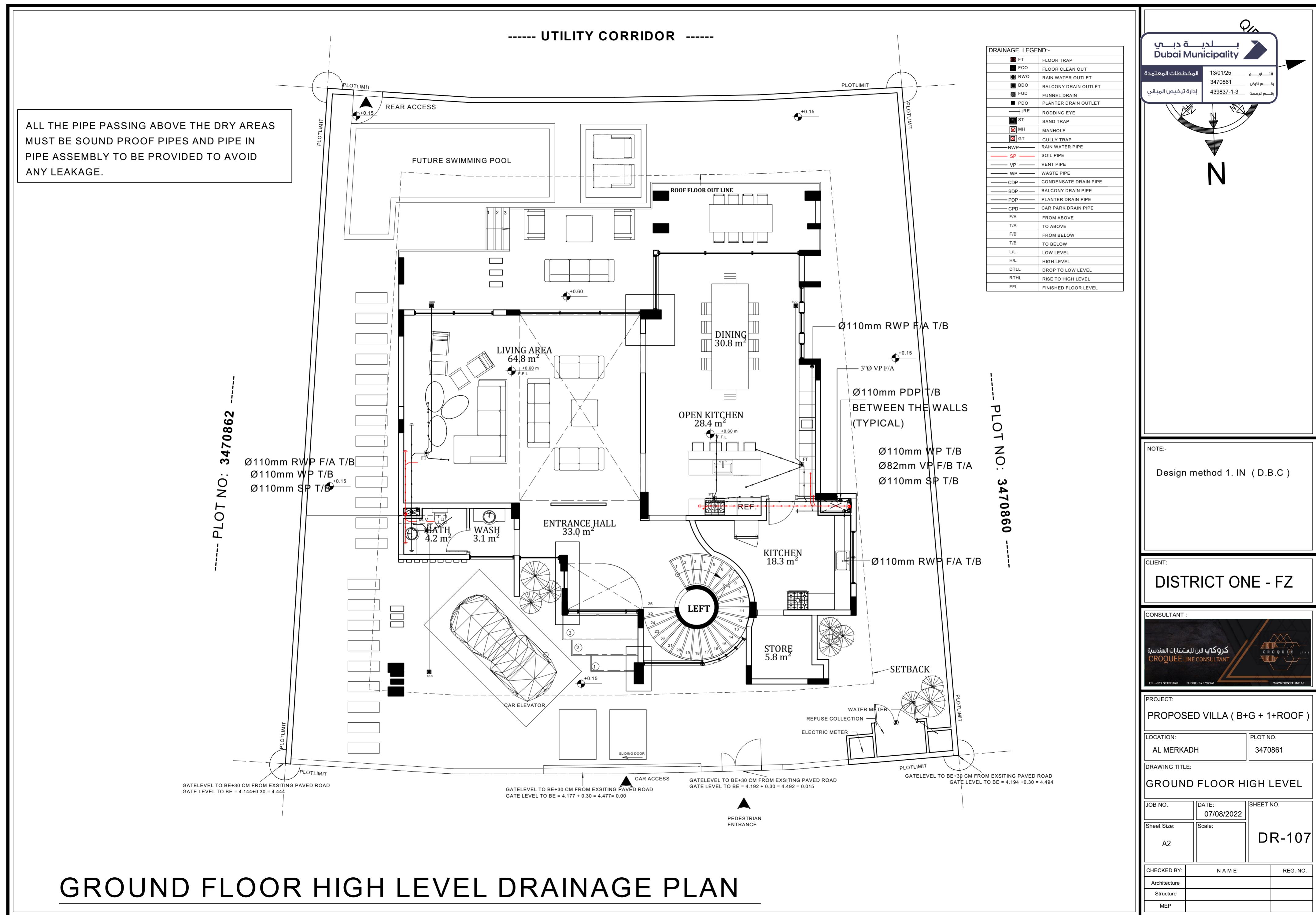
PROJECT:
PROPOSED VILLA (B+G + 1+ROOF)

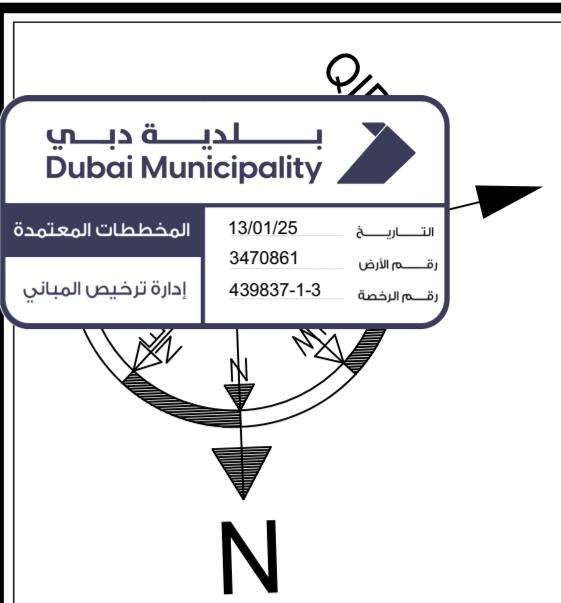
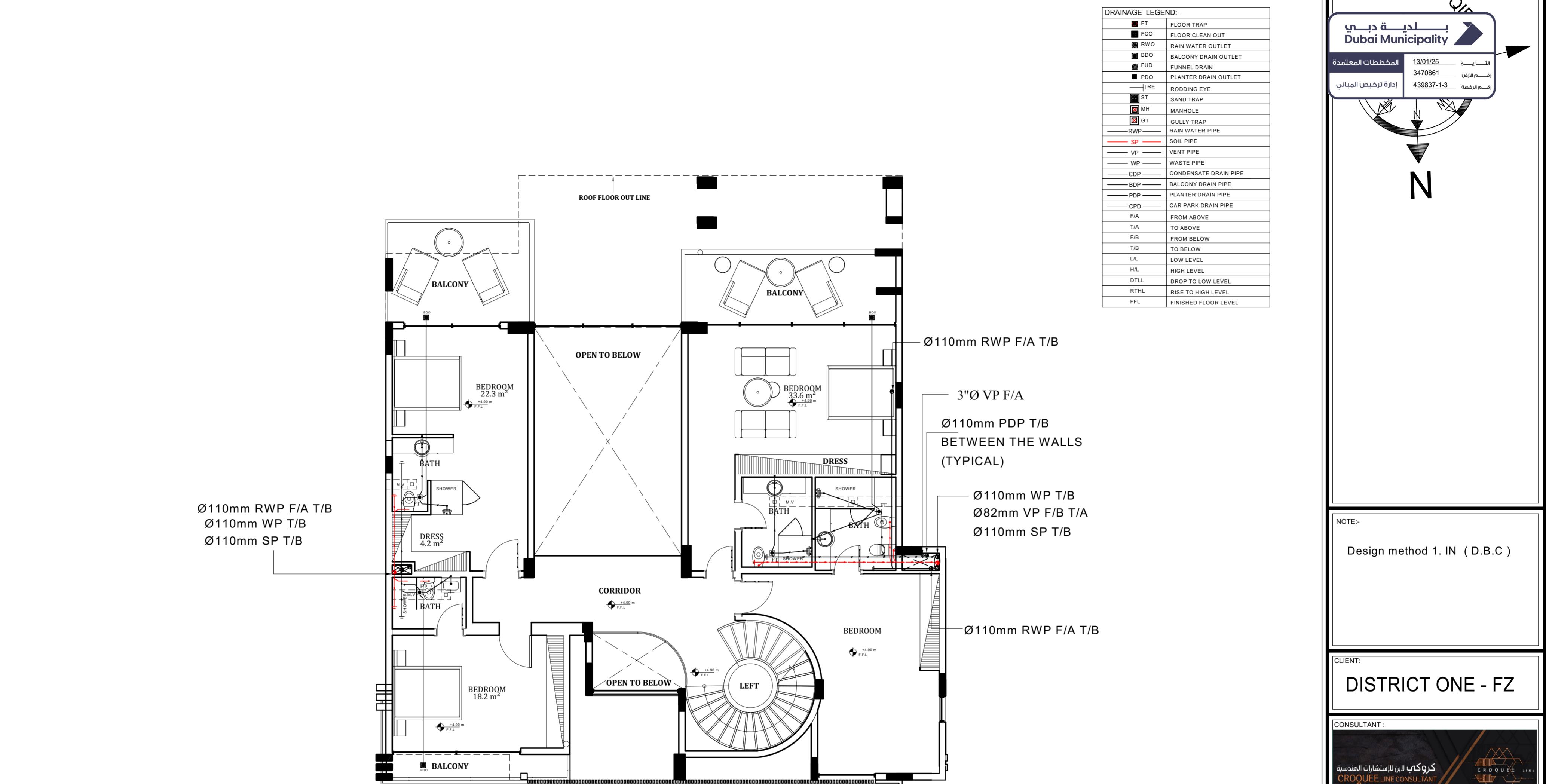
LOCATION:
AL MERKADH PLOT NO.
3470861

DRAWING TITLE:
BASEMENT FLOOR PLAN

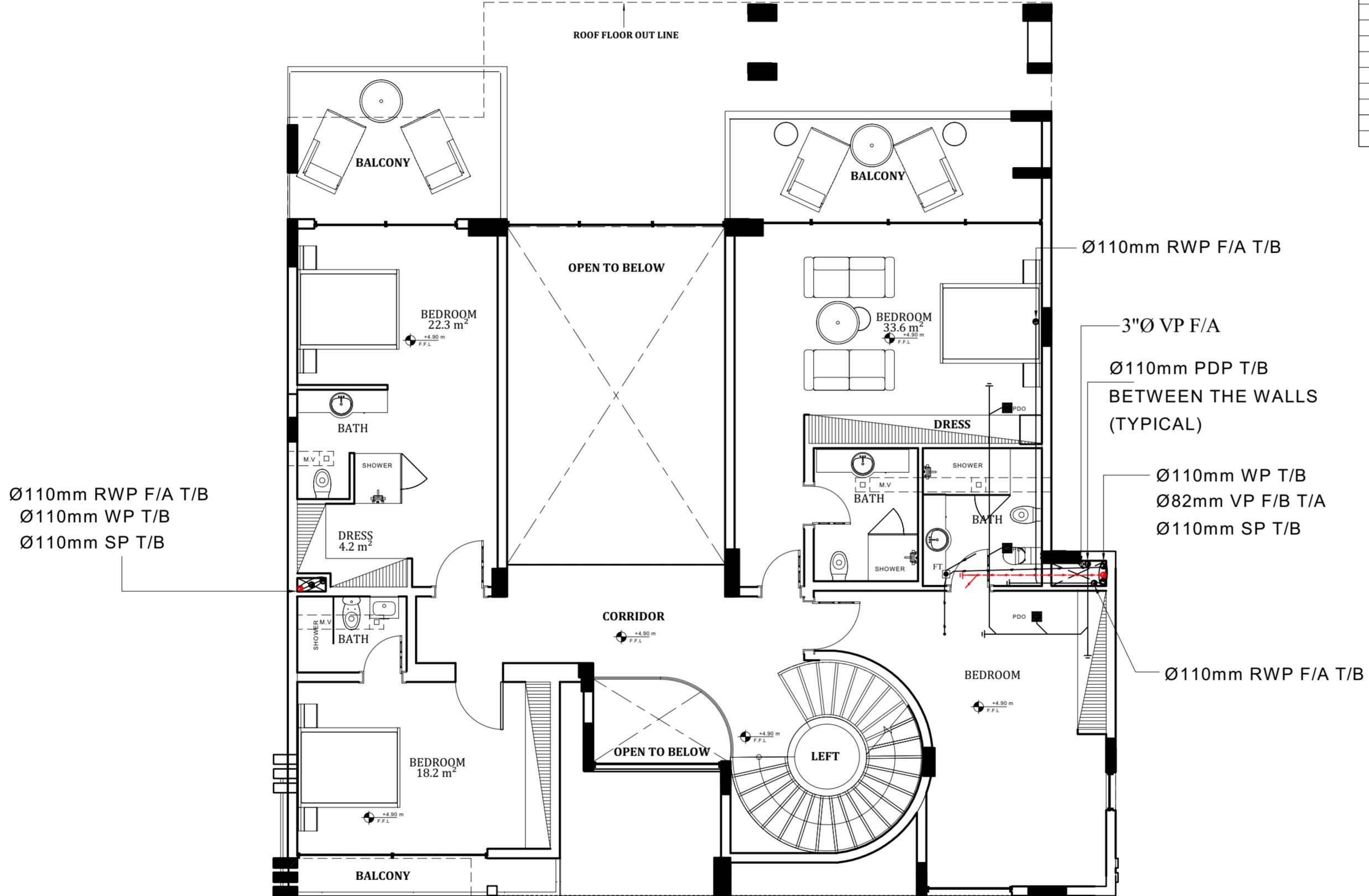
JOB NO. DATE: 07/08/2022 SHEET NO.
Sheet Size: Scale: DR-105

CHECKED BY: NAME REG. NO.
Architecture
Structure
MEP





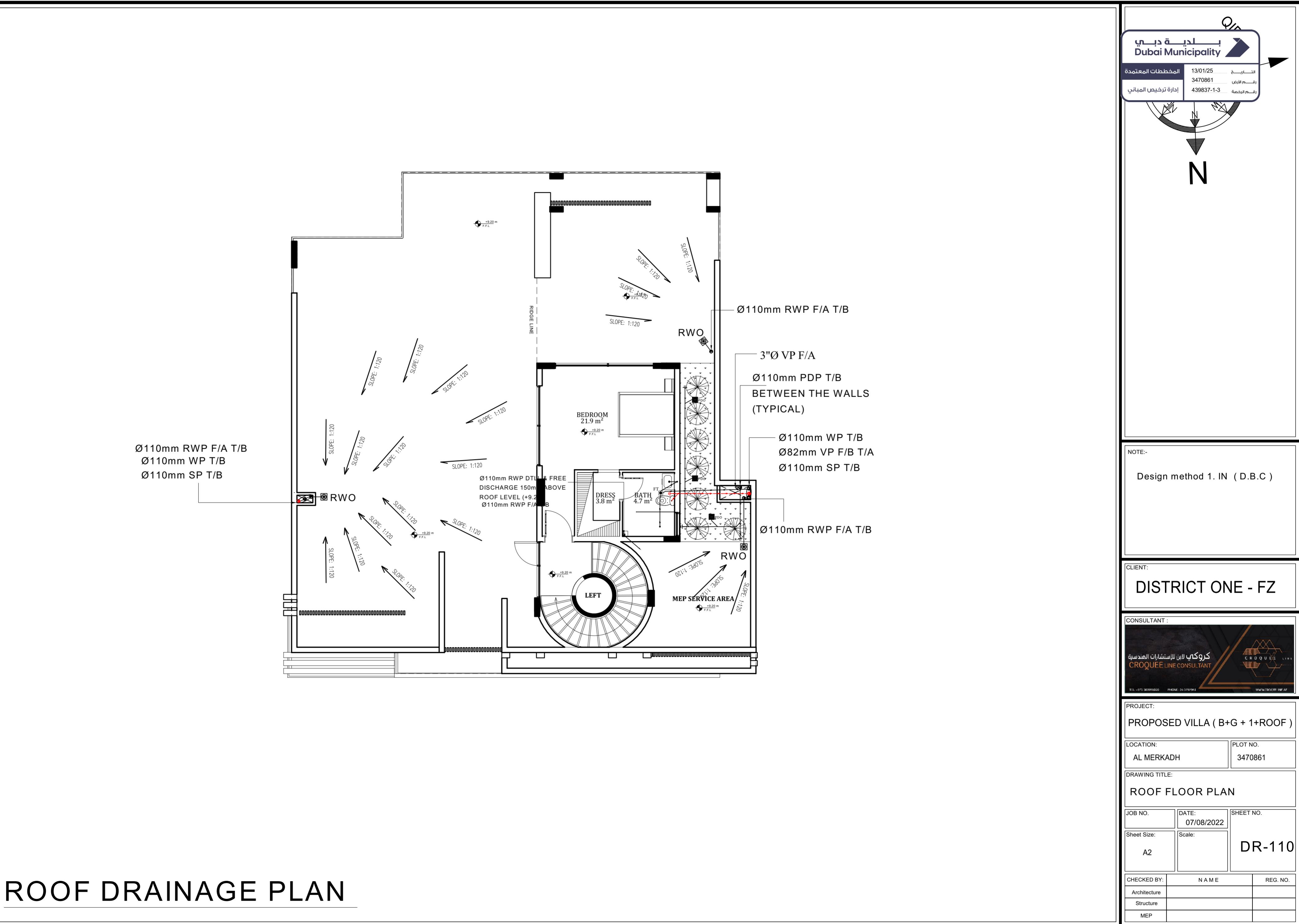
ALL THE PIPE PASSING ABOVE THE DRY AREAS
MUST BE SOUND PROOF PIPES AND PIPE IN
PIPE ASSEMBLY TO BE PROVIDED TO AVOID
ANY LEAKAGE.



DRAINAGE LEGEND:-	
FT	FLOOR TRAP
FCO	FLOOR CLEAN OUT
RWO	RAIN WATER OUTLET
BDO	BALCONY DRAIN OUTLET
FUD	FUNNEL DRAIN
PDO	PLANTER DRAIN OUTLET
RE	RODDING EYE
ST	SAND TRAP
MH	MANHOLE
GT	GULLY TRAP
RWP	RAIN WATER PIPE
SP	SOIL PIPE
VP	VENT PIPE
WP	WASTE PIPE
CDP	CONDENSATE DRAIN PIPE
BDP	BALCONY DRAIN PIPE
PDP	PLANTER DRAIN PIPE
CPD	CAR PARK DRAIN PIPE
F/A	FROM ABOVE
T/A	TO ABOVE
F/B	FROM BELOW
T/B	TO BELOW
L/L	LOW LEVEL
H/L	HIGH LEVEL
DTLL	DROP TO LOW LEVEL
RTHL	RISE TO HIGH LEVEL
FFL	FINISHED FLOOR LEVEL

Dubai Municipality		
المخططات المعتمدة	التاريخ: 13/01/25	
ادارة ترخيص المباني	رقم المأذون: 3470861	
	رقم الرخصة: 439837-1-3	
NOTE:- Design method 1. IN (D.B.C)		
CLIENT: DISTRICT ONE - FZ		
CONSULTANT: 		
PROJECT: PROPOSED VILLA (B+G + 1+ROOF)		
LOCATION: AL MERKADH	PLOT NO. 3470861	
DRAWING TITLE: FIRST FLOOR HIGH LEVEL		
JOB NO.	DATE: 07/08/2022	
Sheet Size: A2	Scale:	
DR-109		
CHECKED BY:	NAME	REG. NO.
Architecture		
Structure		
MEP		

FIRST FLOOR HIGH LEVEL DRAINAGE PLAN



TOP ROOF DRAINAGE PLAN

