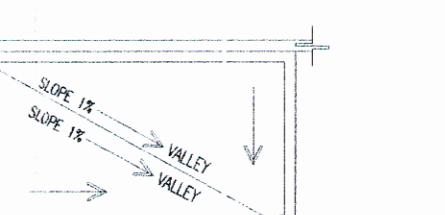
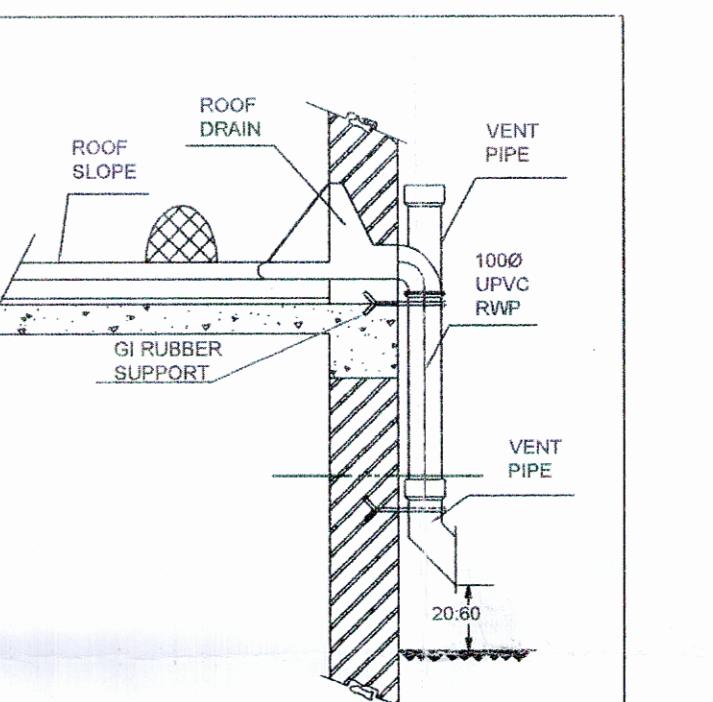


GUARD ROOM



ROOF PLAN  
SCALE 1:100



ROOF DRAIN OUTLET  
FOR RAIN WATER

**NOTES - DRAINAGE**

- ALL EXTERNAL UNDERGROUND DRAINAGE WORK SHALL BE OF EXTRA STRENGTH VITRIFIED CLAY PIPES & FITTING CONFORMING TO BS EN 295:1991 WITH PUSH FIT POLYPROPYLENE FLEXIBLE COUPLINGS.
- ALL INTERNAL DRAINAGE WORK SHALL BE OF VITRIFIED CLAY PIPES & FITTINGS WHICH SHALL BE UPVC TO BS 4461 WITH PUSH FIT POLYPROPYLENE FLEXIBLE Joints.
- ABOVE GROUND DRAINS SHALL BE UPVC TO BS 4514 FOR SIZES UP TO AND INCLUDING 75mm DI AND ABOVE WITH SOLVENT WELD JOINTS FOR SIZES UP TO AND INCLUDING 110mm DI AND UPVC TO BS 4514/2005 FOR SIZES UP TO 85mm/125mm SUITABLE FOR HIGH TEMPERATURE.
- FLOOR GUILLES SHALL BE 100mm DI UPVC WITH A 75mm DI DEEP SEAL TRAP PROVIDED FOR THE INLET CONNECTION A DRAINAGE AND A BLANK COVER TO ENCLOSED APPARATUS.
- WASH HAND BASINS/BATH/TUB SHOWER/URINAL W.C. ETC. CONNECTION SHALL BE PROVIDED WITH A 75mm DI DEEP SEAL TRAP.
- ALL INTERNAL WASTE PIPES TO BE BRACKETED AT MINIMUM CENTERS OF METER SPACES.
- OUTLET AND ADAPTERS SHALL BE FITTED TO INSURE THAT CORRECT AIR AND WATER FLOW IS PROVIDED.
- DOOR BEND SHALL BE PROVIDED AT THE BOTTOM OF ALL SOIL AND WASTE STACKS AT EACH JOINTS.
- FOR PIPES WORKS FLEXIBLE JOINTS ARE TO BE PROVIDED BY USING FIBERBOARD WATER SEAL.
- IMAPS SHALL BE FITTED AS BELOW:

IMAP	PIPE SIZE & TYPE	SIZE
WASHBASIN	50mm BOTTLE	50mm
SINK	40mm TUBE	75mm
B.TUB (SHOWER)	50mm "P" OR "P"	50mm "P"
WC	50mm "P"	50mm "P"
DOOR BEND	TUBE	150mm 7/8"

- SEWERS HAVING A DEPTH COVER OF LESS THAN 800MM IN GENERAL AREA AND 1200MM IN PAVED AREAS SHALL BE ADEQUATELY PROTECTED WITH INDOOR CONCRETE SLABS 150MM THICK WITH THE PIPE WORKS FLEXIBLE JOINTS REINFORCED WITH 15MM DIA STAINLESS STEEL BANDS AT EACH JOINT.
- ALL LEVELS TO BE CHECKED PRIOR TO CONSTRUCTION.
- ALL PIPE WORKS SHALL BE INSTALLED STRICTLY AS PER THE MANUFACTURERS RECOMMENDATION.
- SEPTIC TANK/MANHOLES/SOAKAWAYS/LEADING FOR PLUMB WORK AND OTHERS/NOMENCLATURE OF ALL PIPES AND FITTINGS SHALL BE AS PER THE GOVERNMENT OF MUNICIPAL AFFAIRS AND AGRICULTURE/CIVIL ENGINEERING/SEWAGE DIVISION.
- A VENT PIPE SHOULD IN ALL SURFACES MANHOLE THE VENT PIPE SHOULD BE RAISED AT 12 METER ABOVE ROOF LEVEL.
- MAMPOLES THAT ARE MORE THAN 1 METER DEEP ARE TO BE CONSTRUCTED IN MASS CONCRETE (SLOPE).
- ALL DRAINS AND SEWERS HAVE TO BE OF DOUBLE SEAL AND RECESSED TYPE.
- NO SURFACE WATER WILL BE DRAINED TO GENERATE SWALLOWS SHOW DETAILS.
- NO SWIMMING POOL WATER WILL BE ALLOWED TO BE DISCHARGED INTO THE DRAINS SYSTEMS SHOULD BE DRAWN ON THE SWALLOWS SHOW DETAILS FOR DRAINAGE SYSTEMS.
- CLIENT WILL BE RESPONSIBLE FOR PUMPING ARRANGEMENTS IN FUTURE IF GOVERNMENT SEWER LINE LAD ARE NOT DEEP ENOUGH FOR CONNECTION.
- UNLESS A HOUSE CONNECTION CHAMBER IS EXISTING WITHIN THE PLATFOLD MUST PROVIDE SEPTIC TANK AND SEAMAKER.

**NOTE:**  
BEFORE INITIATING THE WORK, THE CONTRACTOR MUST CHECK AND SUPERPOSE ALL PROJECT DRAWINGS ( ARCH., STR., MECH., ELEC., ETC. ) AND IN CASE OF ANY DISCREPANCY, THE CONTRACTOR MUST REFER TO THE DESIGNER FOR CLARIFICATION BEFORE STARTING ANY CONSTRUCTION WORK .

U.D.D STAMP	MUNICIPALITY STAMP
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Enquiry No. :	Application No. :
CONSULTANT REG. No. :	GRADE : A
CONSULTANT STAMP & SIGNATURE :	CONSULTANT REG. No. :
SUB-CONSULTANT STAMP & SIGNATURE :	

TECHNICAL MANAGER : TECHNICAL MANAGER  
REGISTRATION No. : REGISTRATION No. :

Q.E.C. Engineering Consultancy (Q.E.C.)

AGRI GREEN  
FACTORY(G), OFFICE(G+1), STORE AND DINING ROOM

LOCATION: INDUSTRIAL AREA

CLIENT: ENG. ADNAN FAHAD AL NAIMI

DATE: OCTOBER, 2012 JOB NO.:

TITLE: DRAINAGE LAYOUT  
ROOF PLAN

DRAWING NO.: D-03 SCALE: 1:100

DRAWN BY: E/ AHMED ATTIA CHECKED BY:

CAD FILE: ARCH. KHALED MOHTAR REGISTRATION NO. :

REVISION SIGNATURE SIGNATURE