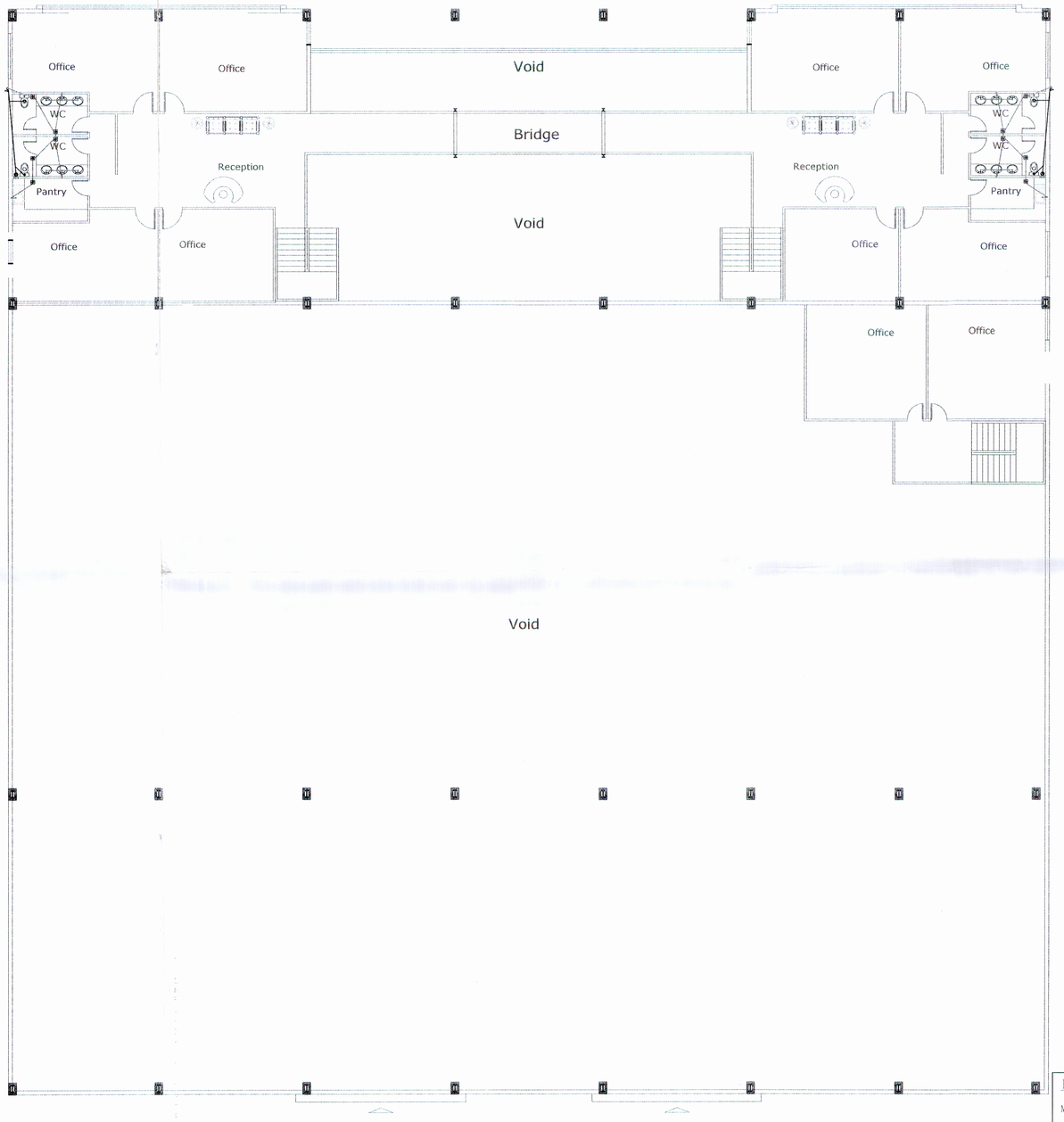

FIRST FLOOR PLAN
SCALE 1:100

NOTES – DRAINAGE

1. ALL EXTERNAL UNDERGROUND DRAINAGE WORK SHALL BE OF EXTRA STRENGTH VITRIFIED CLAY PIPES & FITTING CONFORMING TO BSEN 295,1991 WITH PUSH-FIT POLYPROPILENE FLEXIBLE COUPLINGS.
2. UNDERGROUND DRAINAGE PIPES & FROM THE BUILDING TO THE MANHOLE SHALL BE UPVC TO BS 4660 WITH PUSH FIT POLYPROPYLENE FLEXIBLE JOINTS.
3. ABOVE GROUND DRAINAGE PIPES SHALL BE UPVC TO BS 4514 FOR SIZES OF 75mm DIA AND ABOVE WITH SOLVENT WELD JOINTS FOR SIZE UP TO AND INCLUDING 50mm DIA.PIPES SHALL BE ABS/UPVC/MUPVC TO BS 5243/5255 SUITABLE FOR HIGH TEMPERATURE.
4. FLOOR GULLIES SHALL BE 100mm DIA UPVC WITH A 75mm DIA.DEEP SEAL TRAP,PROVISION FOR BACK INLET CONNECTION & GRATING AND A BLANK COVER TO ENGINEERS APPROVAL.
5. WASH HAND BASIN,SINK,BATHTUB,SHOWER,URABIC W.C ETC. CONNECTION SHALL BE PROVIDED WITH A 75mm DEEP SEAL TRAP.
6. ALL INTERNAL WASTE PIPES TO BE BRACKETED AT MINIMUM CENTERS OF THEIRTER.
7. OUTLET AND ADAPTERS SHALL BE FITTED TO INSURE THAT CORRECT AIR AND WATER SEAL IS TO BE ATTAINED.
8. DOOR BEND SHALL BE PROVIDED AT THE BOTTOM OF ALL SOIL AND WASTESTACK.
9. FOR PIPES WORKS FLEXIBLE JOINTS ARE TO BE PROVIDED BY USIN FIBERBOARD WATER SEAL.
10. TRAPS SHALL BE FITTED AS BELOW

ITEM	TRAP (SIZE & TYPE)	
WASHIN	32mm BOTTLE	75mm
SINK	40mm BOTTLE	
B. TUB (SHOWER)	42mm "P"	
W.C.	100mm "S" OR "P"	
BIDET.	50mm "P"	
GULLY	100mm "P"	150mm "P"

11. SEWERS HAVING A DEPTH COVER OF LESS THAN 800mm IN GENERAL AREAS AND 1200mm IN PAVED AREAS SHALL BE ADEQUATELY PROTECTED WITHGRADED CONCRETE SURROUND 150mm THICK WITH THE PIPE WORKS FLEXIBLE JOINTS RETAINED BY THE USE OF 13mm THICK FIBERBOARD AT EACH JOINT
12. ALL LEVELS TO BE CHECKED PRIOR TO CONSTRICTION
13. ALL PIPE WORKS SHALL BE INSTALLED STRICTLY AS PER THE MANUFACTURERS RECOMMENDATION.
14. SEPTIC TANK,MANHOLES,DISCHARWYS,BUILDING FOR PIPE WORK AND OTHERDRAINAGE DETAILS TO COMPLY WITH THE "DEVELOPER'S DRAINAGE GUIDE" DETAILS,MINISTRY OF MUNICIPAL AFFAIRS AND AGRICULTURE,CIVIL ENGINEERING DEPARTMENT, SEWERAGE DIVISION.
15. A VENT PIPE IS REQUIRD AT ALL STARTING MANHOLE.THE VEAT PIPE SHOULD BE RAISED AT 1.2 METER ABOVE ROOF LEVEL.
16. MANHOLES THAT ARE MORE THAN 1 METER DEEP ARE TO BE CONSTRUCTED IN MASS CONCRETE (5.R.C.)
17. ALL MANHOLE COVERS ARE TO BE OF DUBLE SEAL AND RECESSED TYPE
18. NO SURFICE WATER WILL BE DRAINED TO SEPARATE SOAKAWAY.SHOW DETAILS
19. NO SWIMMING POOL WATER WILL BE ALLOWED TO BE DISCHARGED INTO THE DRAINAGE SYSTEM.IF SHOULD BE DRAINED TO SEPARATE SOAKAWAY.SHOW DETAILS FOR OWN PUMPING ARRANGEMENT IN CASE OF LARGE SWIMMING POOL.
20. CLIENT WILL BE RESPONSIBLE FOR PUMPING ARRANGEMENTS IN FUTURE IF GOVERNMENT SEWER LINE LAID ARE NOT DEEP ENOUGH FOR CONNECTION.
21. UNLESS A HOUSE CONNECTION CHAMBER IS EXISTING WITHIN THE PLOT,CLIENT MUST PROVIDE SEPTIC TANK AND SOAKWAY.

NOTE:

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

DRAINAGE PIPE SIZES:-

M.H. to M.H.	150 dia UPVC
W.C. to M.H.	100 dia UPVC
Bidet to M.H.	100 dia UPVC
F.D. to M.H.	100 dia UPVC
Stack to M.H.	100 dia UPVC
G.T. to M.H.	100 dia UPVC
B.Tub to F.D.	40 dia UPVC
W.B. to F.D.	32 dia UPVC
Sink to F.D.	50 dia UPVC
F.D. to Stack	100 dia UPVC
Bidet to Stack	40 dia UPVC
W.C. to Stack	100 dia UPVC
Dish Washer to F.D	32 dia UPVC
Wash. Mch. to F.D	32 dia UPVC

PLUMBING AND FIRE FIGHTING
LIST OF SYMBOLS AND ABBREVIATIONS

ABBREV	SYMBOL	DESCRIPTION
LAV1		LAVATORY, VANITY (VIP)
WC		WESTERN WATER CLOSET
B		BIDET
KS		KITCHEN SINK
LAV2		LAVATORY, VANITY (VIP)
BT2		BATH TUB
FG		FLOOR GULLY
FGK		FLOOR GULLY FOR KITCHEN
GT		CONCRETE OR CAST IRON GREASE TRAP OR GREASE INTERCEPTOR
WP		WASTE PIPE (ABOVE GROUND)
VP	—V—	VENT PIPE
VS		VENT STACK
WS		WASTE OR SOIL STACK
FCO		FLOOR CLEAN OUT
RD		ROOF DRAIN
PD		PARKING DRAIN

U.D.D STAMP	MUNICIPALITY STAMP

Enquiry No. :	Application No :
CONSULTANT REG. No : GRADE : A	CONSULTANT REG. No : GRADE : A
CONSULTANT STAMP & SIGNATURE :	SUB-CONSULTANT STAMP & SIGNATURE :
TECHNIQAL MANAGER :	TECHNIQAL MANAGER
REGISTRATION No. :	REGISTRATION No :

الأقصى للاستشارات الهندسية
Al- AQSA Engineering Consultancy (Q.E.C)

PROJECT
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 FIRST FLOOR PLAN

DRAWING NO.: D-02	SCALE: 1:100	
DRAWN BY:	DESIGNED BY: E/AHMED ATTIA	CHECKED BY:
CAD FILE: ARCH. KHALED MOKHTAR	REGISTRATION No. :	REGISTRATION No. :
REVISION	SIGNATURE	SIGNATURE