



PLUMBING DESIGN



100% Design submittal

Project No - - - - -

Project Type: Hospital

Area: 382 Square Meters

Location: Malalai Maternity Hospital, Kabul, Afghanistan

Client Name: - - - - -

No of Stories: 3 Stories



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PROJECT NAME:

FISTULA CARE CENTER IN MALALAI
MATERNITY HOSPITAL IN
KABUL- AFGHANISTAN

OWNER:

AFGHAN FAMILY GUIDANCE ASSOCIATION
FOCAL NAME:
E-MAIL:
CELL #:



DEVELOPER:

WEB:
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PHONE #:
FAX #:

CLIENT:

MINISTRY OF PUBLIC HEALTH

PROJECT NO / KEY:

DESIGN / PROJECT STATUS:

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KEYPLAN:



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A

TECHNICAL LEGEND	
SYMBOL	DESCRIPTION
	COLD WATER LINE
	HOT WATER LINE
T 	90° TEE
T.R 	90° TEE REDUCER
90°E 	90° ELBOW
45°E 	45° ELBOW
E.R.F 25x15 	90° ELBOW ROUND (female threaded)
E.R.M 	90° ELBOW ROUND (male threaded)
S.H.F 	SOCKET HEXAGONAL (female threaded)
S.H.M 	SOCKET HEXAGONAL (male threaded)
S.R.F 	SOCKET ROUND (female threaded)
S.R.M 	SOCKET ROUND (male threaded)
G.V 	GATE VALVE
CH.V 	CHECK VALVE
R. 	REDUCER
M.A 	MALE ADAPTOR
N 	NIPPLE
BU 	HEX BUSHING
T.R.F 	90° TEE ROUND (female threaded)
T 	90° TEE
A 	ANGEL VALVE
P 	PLUG
L.V	LAVATORY
W.C	WATER CLOSET
H.B	HOSE BIB
SH	SHOWER
D	PIPE DIAMETER (mm)
F.D	FLOOR DRAIN
W.C	WATER CLOSET
L.V	LAVATORY
F.C.O	FLOOR CLEAN OUT
V.R	VENT RISER

PLUMBING FIXTURE SCHEDULE										
SYMBOL	FIXTURE NAME	C.W. (MM)	H.W. (MM)	WASTE (MM)	VENT (MM)	DRAIN		WATER	HIGH	REMARKS
						I.L	C.L	C.L		
	WESTERN WATER CLOSET BACK OUTLET OR FLOOR OUTLET	15	—	100	50	+0.055	+0.105	water+0.300	+0.375	
	EASTERN WATER CLOSET WITH FLASH TANK	15	—	100	50	−0.295	−0.245	water+0.300	—	
	LAVATORY WALL OR COUNTER MOUNTED	15	15	40	50	+0.535	+0.560	+0.495	+0.850	LOW FLOW EFFICIENT FIXTURE
	SHOWER	15	15	50	50	—	—	+1.220	+1.930	
	SERVICE SINK	15	15	50	50	−0.245	−0.205	+0.600	—	LOW FLOW EFFICIENT FIXTURE
	KITCHEN SINK (SINGLE BOWL)		15	50	50	+0.455	+0.480	+0.500	+0.900	

SYMBOL	DESCRIPTION
	SEWER PIPE LINE
	SEWER FLOW
F.D 	FLOOR DRAIN
F.C.O 	FLOOR CLEAN OUT
V.R.C 	VENT RISER COVER
	VENT RISER PIPE
R 	REDUCER
	TRAP

ELECTICAL HOT WATER HEATER SCHEDULE											
TAG NO.	SERVICE LOCATON	BUILDING NAME	NO	STORAGE CAPACITY (L)	HEIGHT (mm)	DIAMETER (mm)	ELECTRICAL REQUIRMENTS				REMARKS
							KW INPUT	VOL TS	PH	HZ	
EW H-01 TI TRONIC 50	TOILET ROOM	JANAT GUL KHAN KOCHI HOSPITAL, KABUL	10	50	553	450	2 KW	220-240	1	50	
EW H-02 TI TRONIC 80	TOILET ROOM	JANAT GUL KHAN KOCHI HOSPITAL, KABUL	1	80	758	450	2 KW	220-240	1	50	

- یادداشت ها
- تمام اندازه ها به ملی متر است در غیر آن صورت ذکر می شود
 - تمام نال های آب سرد در داخل ساختمان از نوع PPR PIPE PN 16 می باشد و تمام نل های آب گرم از نوع PPR PIPE PN 16 بوده و باید علق حرارتی شود
 - تمام نل های فاضلاب یا کانالیزاسیون از نوع PVC ASTM1785 SCH40 می باشد
 - در تمام خروجی ها از تجهیزات P-TRAP نصب گردیده تا از انتشار گازات جلوگیری شود
 - در صورت نیاز تمام نل ها برای جلوگیری از یخ زدگی و عرق یا شبنم علقی شود
 - تمام شیرآب های آب سرد به سمت راست و آب گرم به سمت چپ نصب شود
 - تمام خروجی های فاضلاب از ساختمان به فاصله سه متر از دیوار ساختمان به سمت چپ یا منبع دیگری ریزش فاضلاب وصل می شود
 - برای جلوگیری از یخ زدگی تمام نل های آب و فاضلاب بیرون از ساختمان به عمق 0.8 متر نصب گردد
 - شیرآب سرد به ارتفاع 300 ملی متر به سمت راست از دیوار جانبی نصب می گردد شیرآب با پایپ نرم و انعطاف پذیر و نازل اسپری تهیه گردد طوری که استفاده کننده بتواند بالای توالت را بشوید
 - توالت ها به جهت شمال و جنوب نصب می گردد و توالت ها هرگز به سمت شرق و غرب نصب نگردد
 - شیرآب های گردن قاز مانند نیاز نیست و نباید استفاده شود

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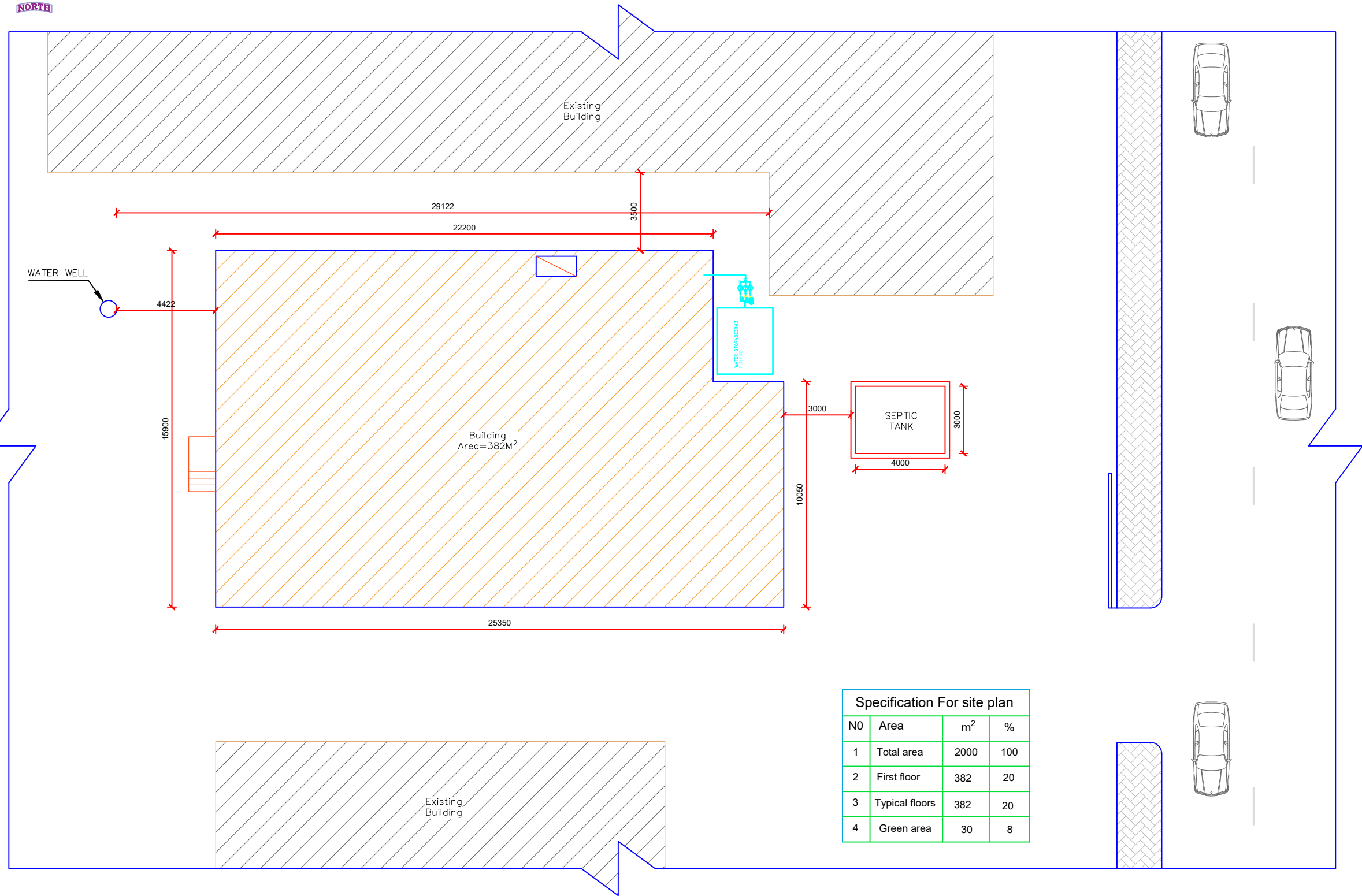
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Specification For site plan

N0	Area	m ²	%
1	Total area	2000	100
2	First floor	382	20
3	Typical floors	382	20
4	Green area	30	8

QIBLA FOR
KABUL = 253°
FROM NORTH

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- ENG.BAQER AHMADI

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- ENG.GHAFOOR GHANI

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OWNER:

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CELL #:



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01 SITE PLAN

P_002

SCALE: 1:100

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- ENG.GHAFOOR GHANI

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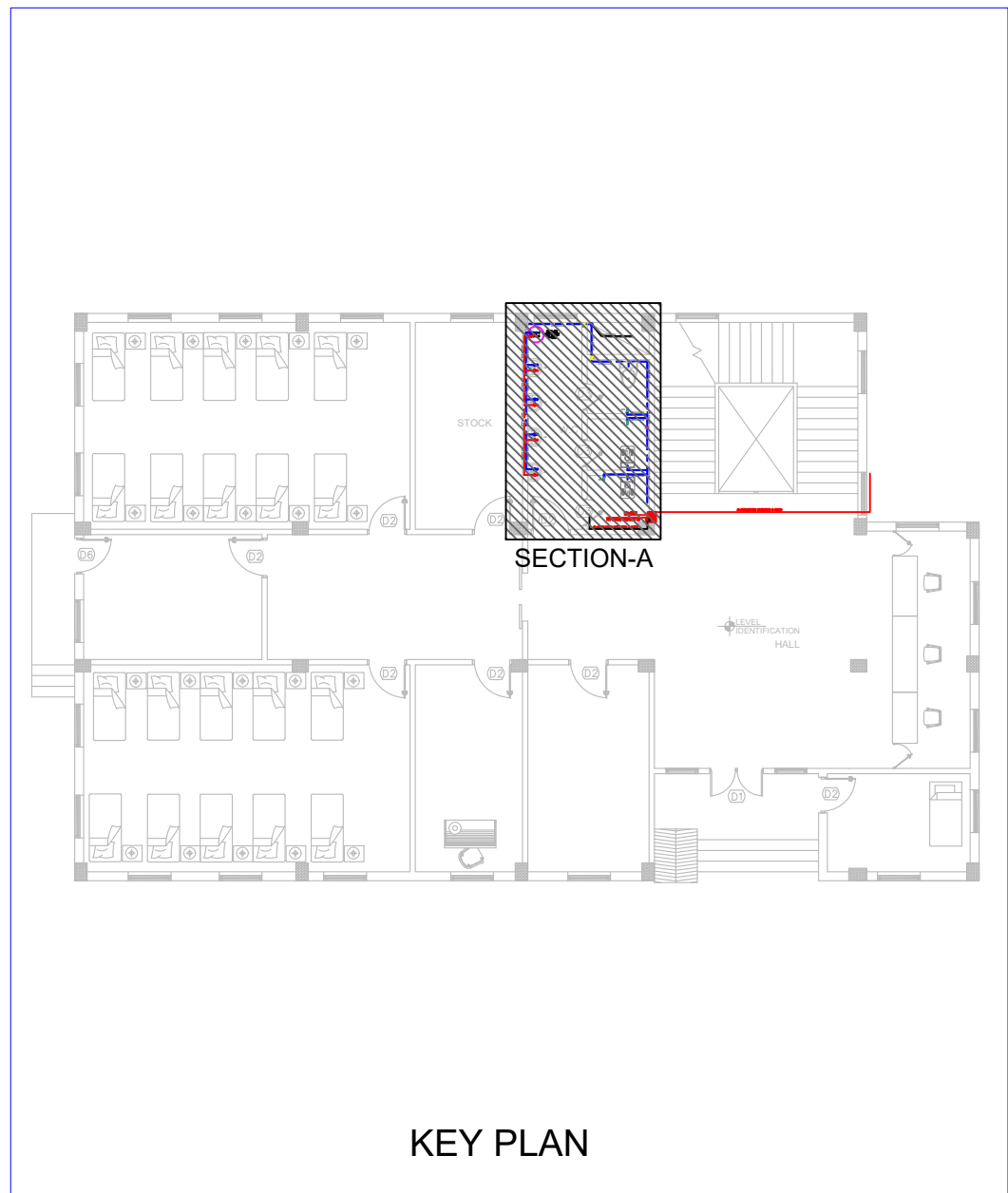
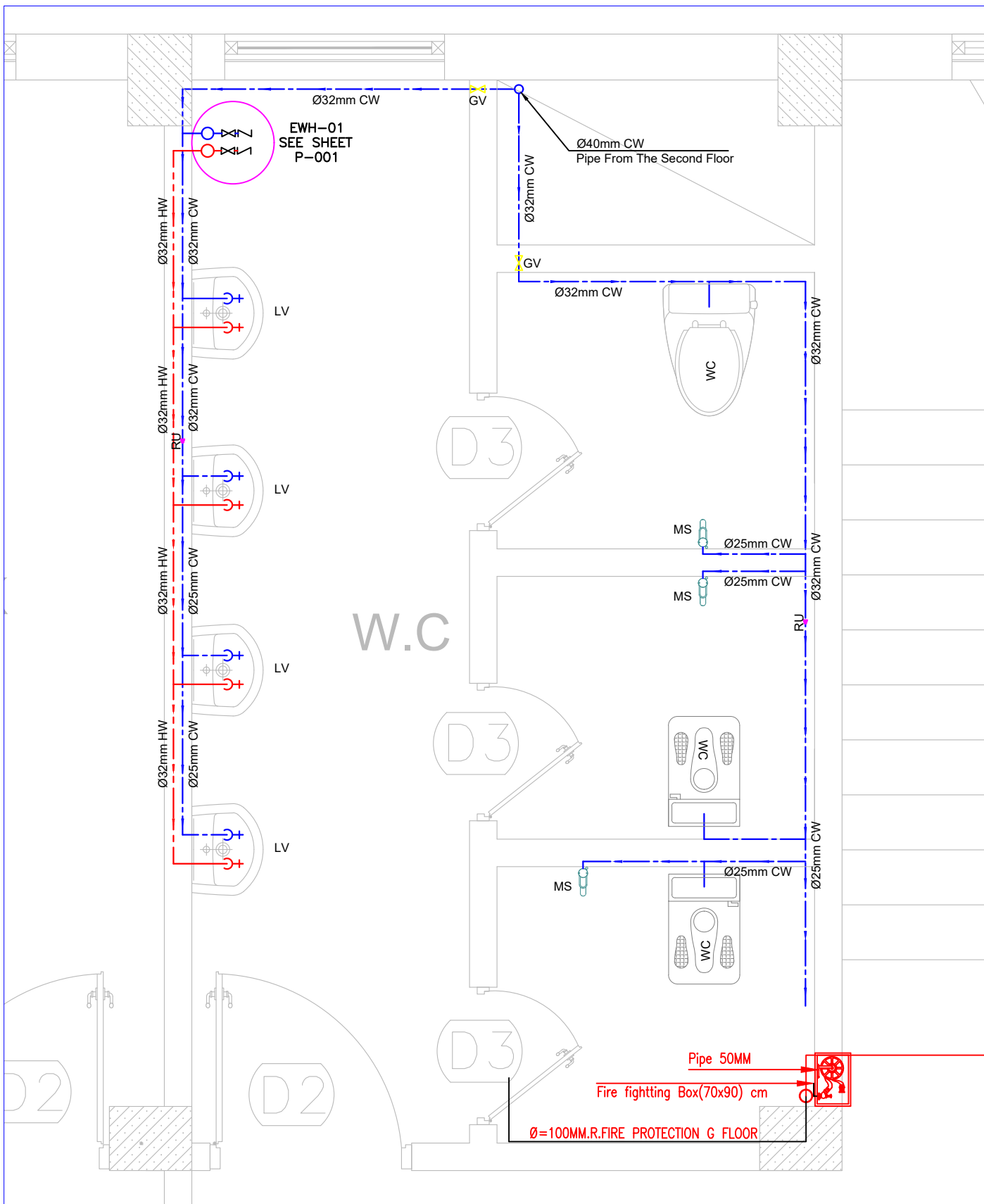
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KEY PLAN

TECHNICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	COLD WATER LINE	HW	HOT WATER
	HOT WATER LINE	CW	COLD WATER
GV	GATE VALVE		HOT WATER FLOW DIRECTION
EWB	ELECTRICAL WATER HEATER		COLD WATER FLOW DIRECTION
KS	KITCHEN SINK		

NOTE: First & Second Floor Water Distribution Plan Are The Same

01

WATER DISTRIBUTION PLAN

P_101

SECTION - A

SCALE: 1:132

PROJECT NAME:

FISTULA CARE CENTER IN MALALAI
MATERNITY HOSPITAL IN
KABUL- AFGHANISTAN

OWNER:

AFGHAN FAMILY GUIDANCE ASSOCIATION
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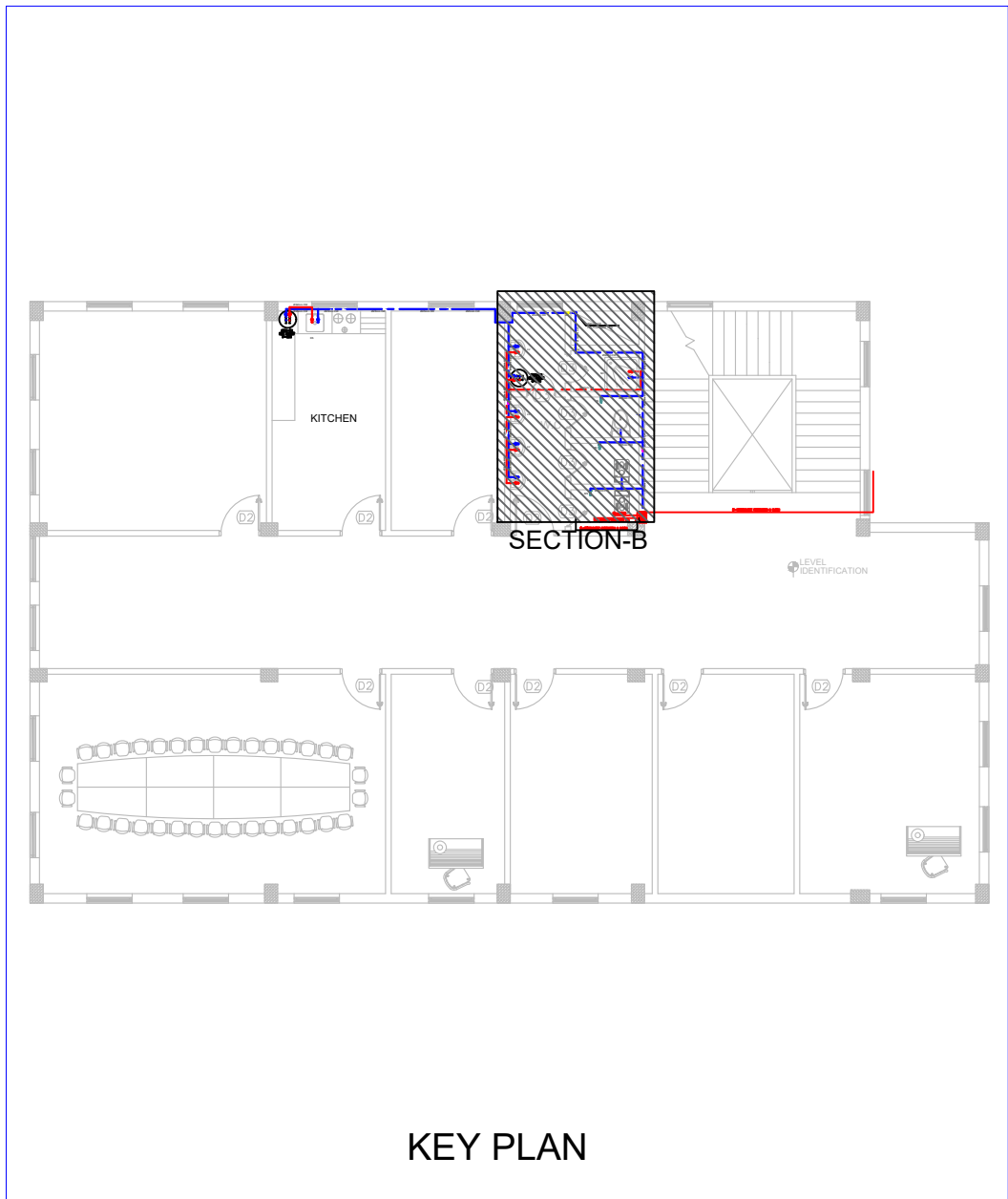
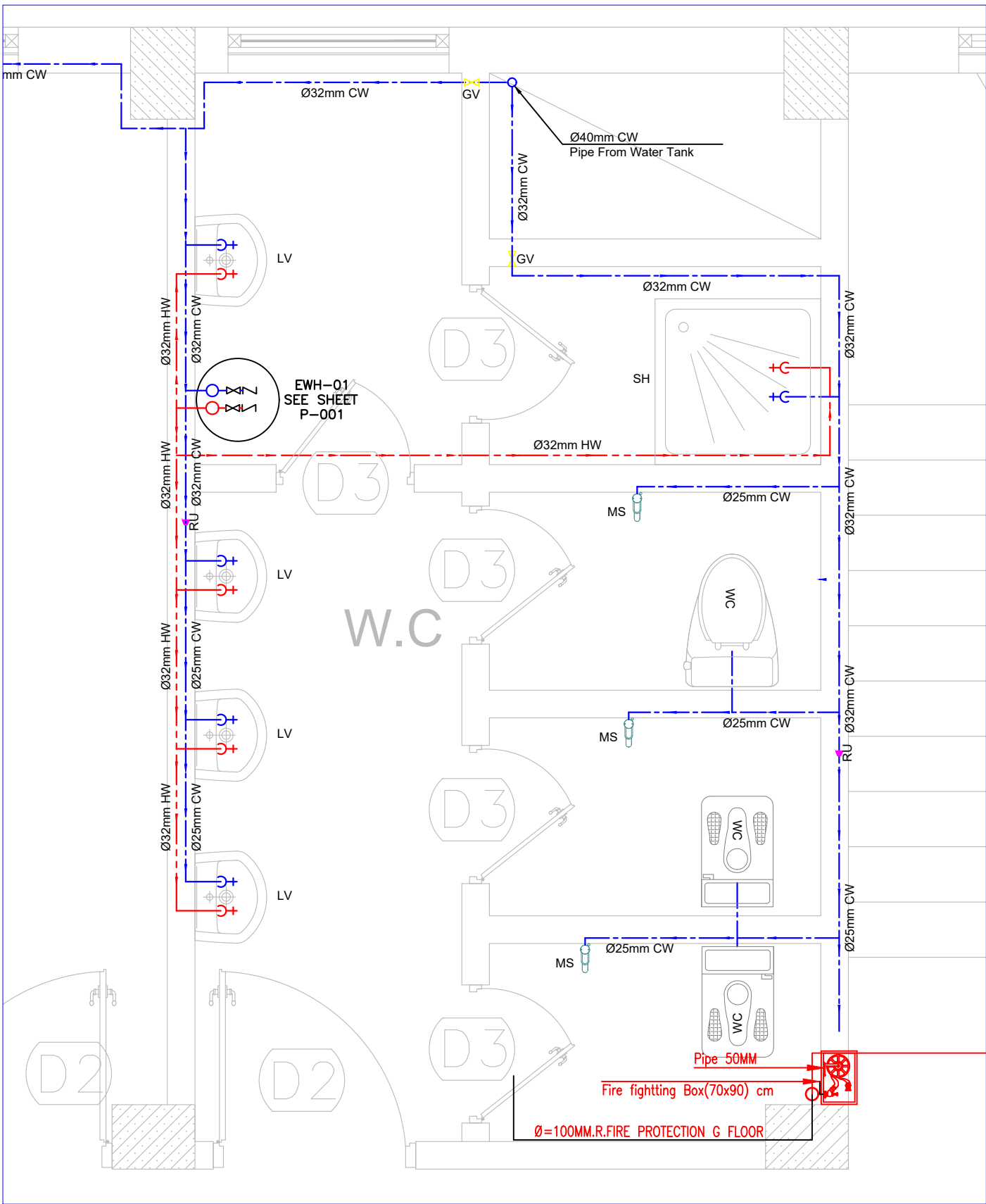
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TECHNICAL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	COLD WATER LINE	HW	HOT WATER
	HOT WATER LINE	CW	COLD WATER
GV	GATE VALVE		HOT WATER FLOW DIRECTION
EWH	ELECTRICAL WATER HEATER		COLD WATER FLOW DIRECTION
KS	KITCHEN SINK		

PROJECT NAME:

FISTULA CARE CENTER IN MALALAI
MATERNITY HOSPITAL IN
KABUL- AFGHANISTAN

OWNER:

AFGHAN FAMILY GUIDANCE ASSOCIATION
FOCAL NAME:
E-MAIL:
CELL #:

DEVELOPER:

WEB:
E-MAIL:
PHONE #:
FAX #:

CLIENT:

MINISTRY OF PUBLIC HEALTH

PROJECT NO / KEY:

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KEYPLAN:

QIBLA FOR
KABUL = 253°
FROM NORTH

DRAWN BY:

- ENG.GHAFOOR GHANI

SEAL/SIGNATURE:

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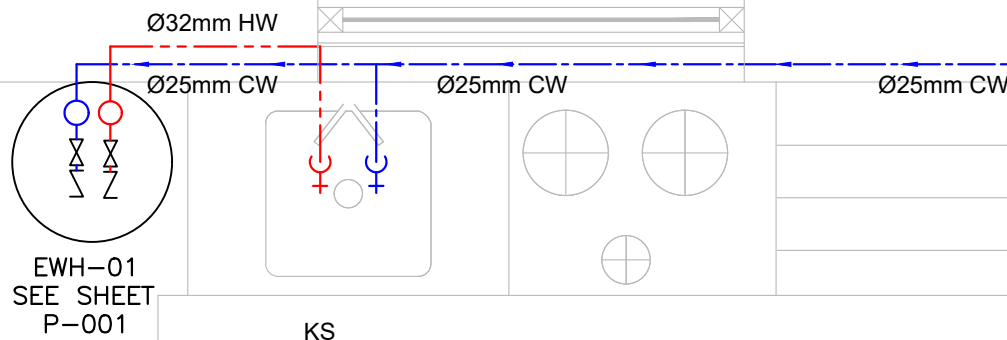
D

C

B

A

KITCHEN



KITCHEN

SECTION-C

KEY PLAN

TECHNICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	COLD WATER LINE	HW	HOT WATER
	HOT WATER LINE	CW	COLD WATER
GV	GATE VALVE		HOT WATER FLOW DIRECTION
EWH	ELECTRICAL WATER HEATER		COLD WATER FLOW DIRECTION
KS	KITCHEN SINK		

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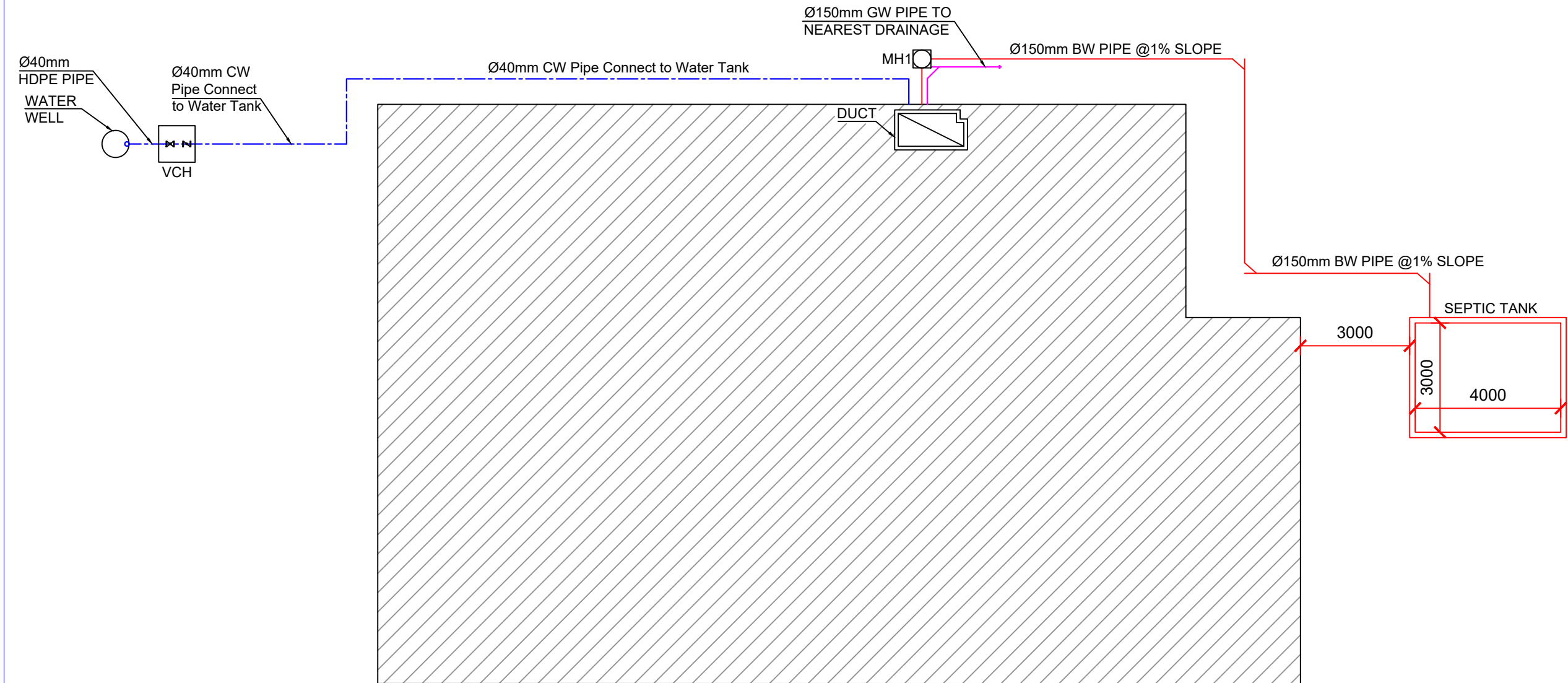
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D

C

B

A



01 WATER AND SEWER DISTRIBUTION SITE PLAN
103 SCALE: 1:150

PROJECT NAME:

FISTULA CARE CENTER IN MALALAI
MATERNITY HOSPITAL IN
KABUL- AFGHANISTAN

OWNER:

AFGHAN FAMILY GUIDANCE ASSOCIATION
FOCAL NAME:
E-MAIL:
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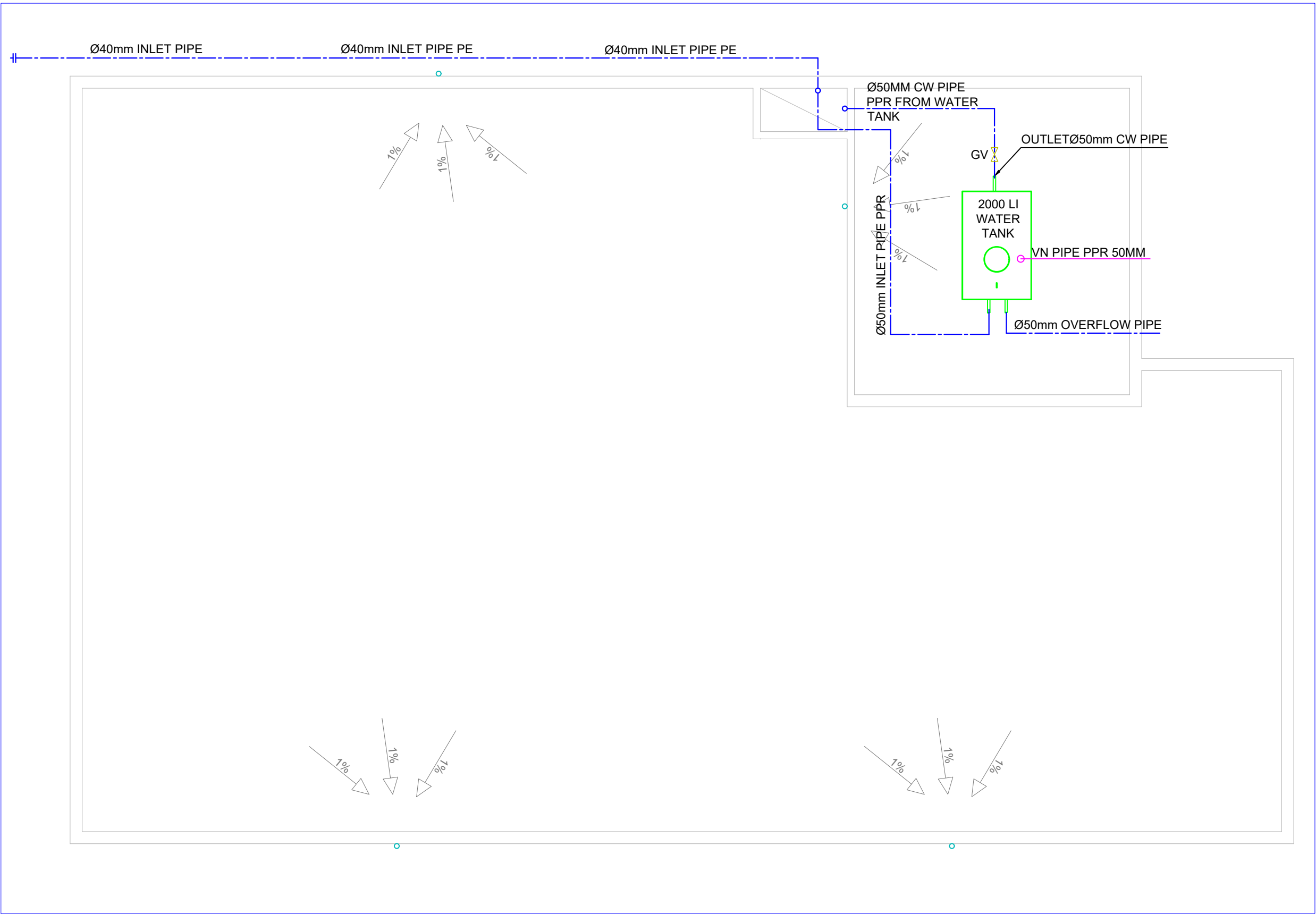
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D

C

B

A



01 WATER TANK PIPING PLAN
104 SCALE: 1:150

PROJECT NAME:

FISTULA CARE CENTER IN MALALAI
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KABUL- AFGHANISTAN

OWNER:

AFGHAN FAMILY GUIDANCE ASSOCIATION
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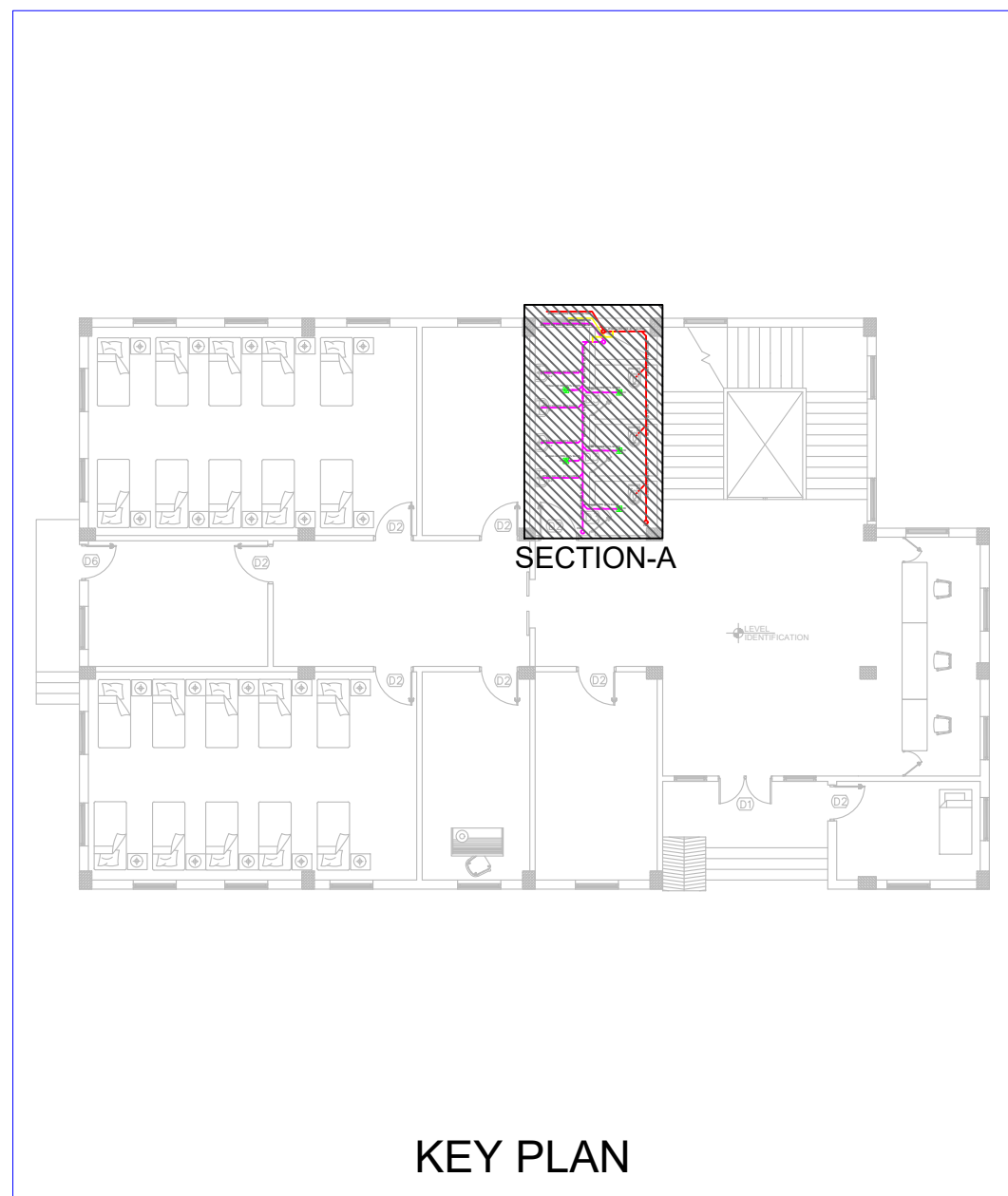
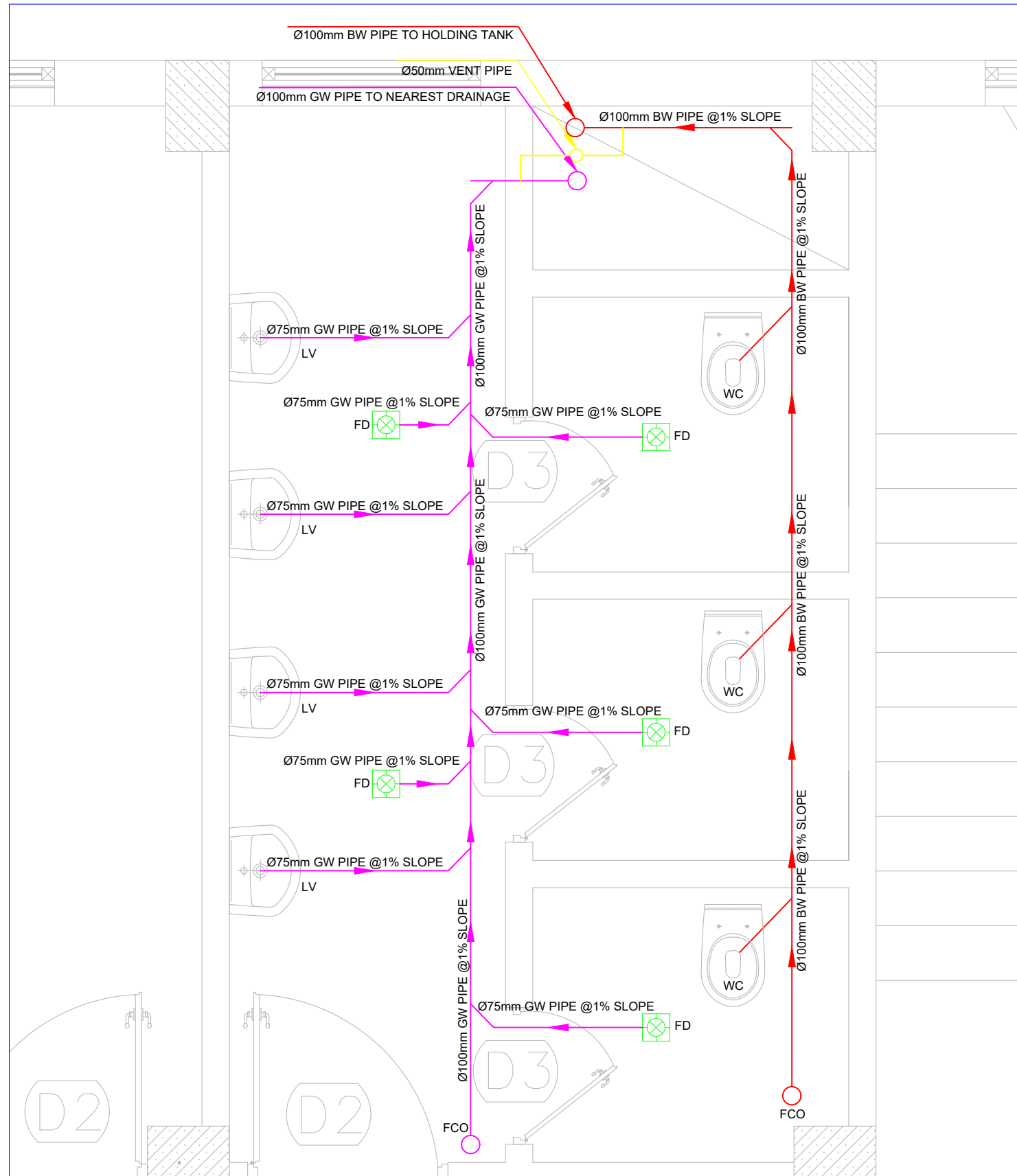
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KEY PLAN

TECHNICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SEWER PIPE	FD	FLOOR DRAIN
WC	WATER CLOSET	LV	LAVATORY
SH	SHOWER		FLOW DIRECTION
FCO	FLOOR CLEANOUT	KS	KITCHEN SINK
GW	GRAY WATER		
BW	BLACK WATER		

NOTE: First & Second Floor Sewer distribution plan Are The Same

01 SEWER DISTRIBUTION PLAN

P_201 SECTION - A

SCALE: 1:32

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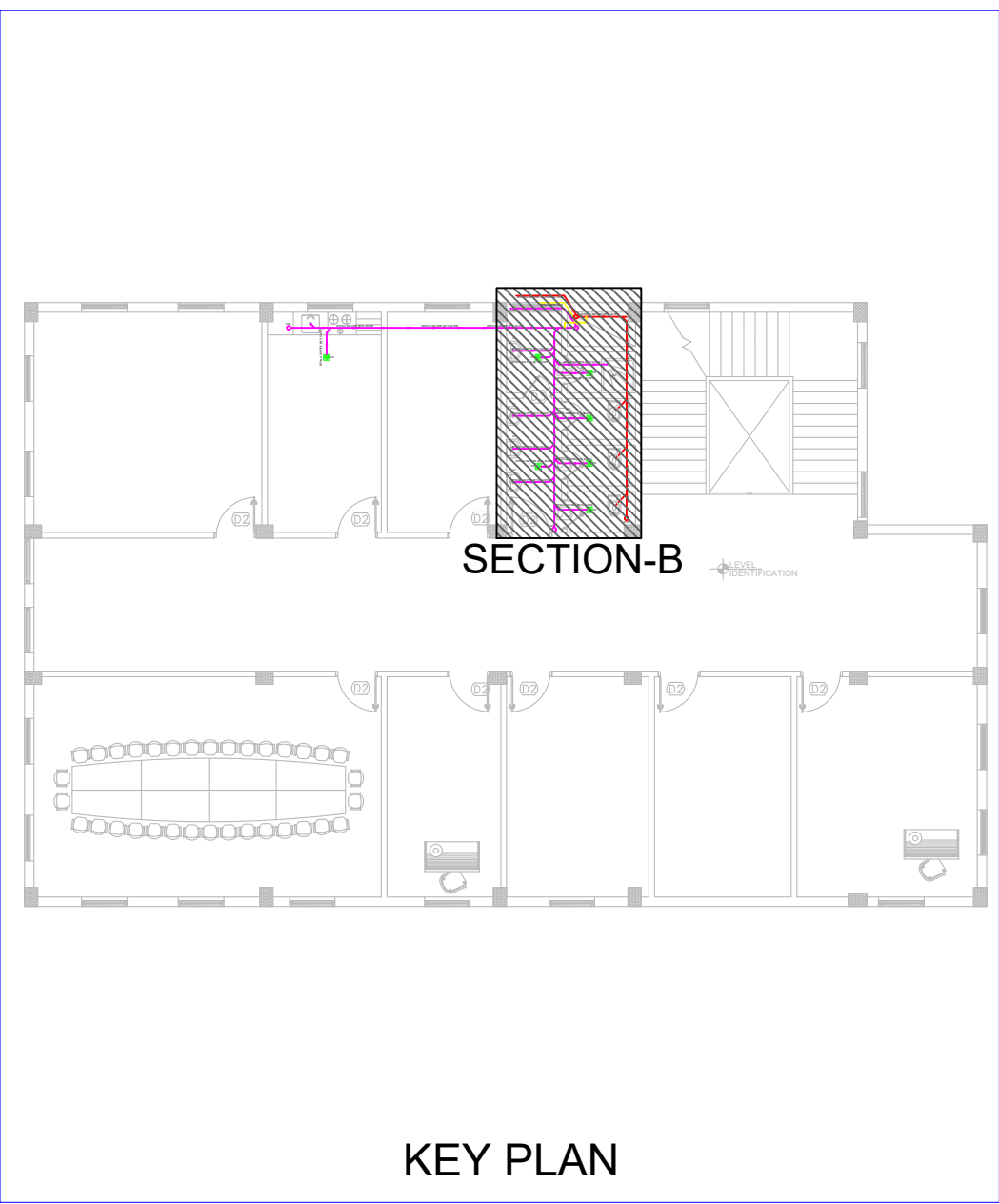
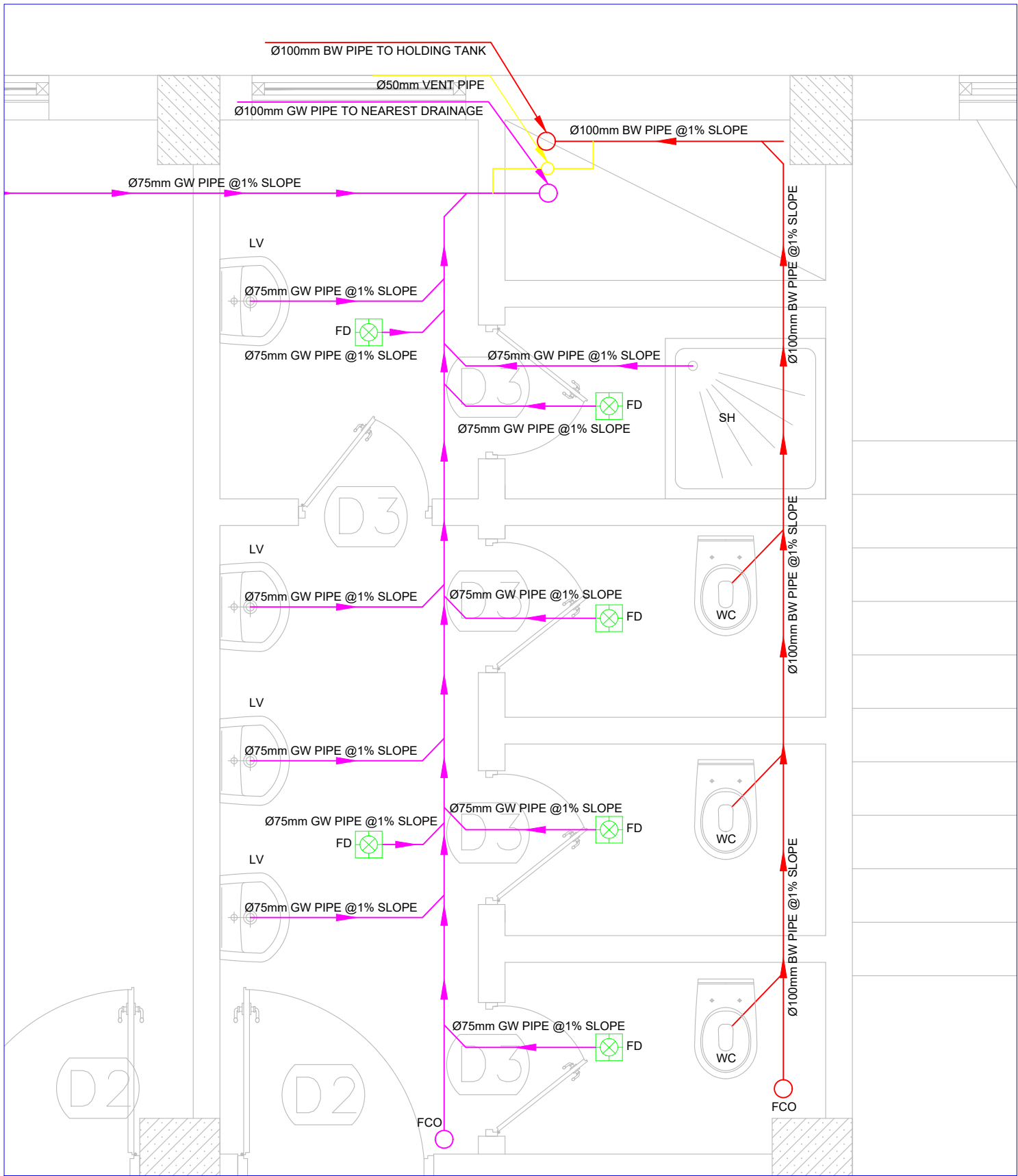
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P-202

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TECHNICAL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SEWER PIPE	FD	FLOOR DRAIN
WC	WATER CLOSET	LV	LAVATORY
SH	SHOWER		FLOW DIRECTION
FCO	FLOOR CLEANOUT	KS	KITCHEN SINK
GW	GRAY WATER		
BW	BLACK WATER		

01 3RD FLOOR SEWER DISTRIBUTION PLAN
P_202 SECTION - B SCALE: 1:32

PROJECT NAME:

FISTULA CARE CENTER IN MALALAI
MATERNITY HOSPITAL IN
KABUL- AFGHANISTAN

OWNER:

AFGHAN FAMILY GUIDANCE ASSOCIATION
FOCAL NAME:
E-MAIL:
CELL #:

DEVELOPER:

WEB:
E-MAIL:
PHONE #:
FAX #:

CLIENT:

MINISTRY OF PUBLIC HEALTH

PROJECT NO / KEY:

DESIGN / PROJECT STATUS:

FOR TENDER ONLY

KEYPLAN:

QIBLA FOR
KABUL = 253°
FROM NORTH

DRAWN BY:

- ENG.GHAFOOR GHANI

CHECKED BY:

- ENG.BAQER AHMADI

REVIEWED BY:

- ENG.GHAFOOR GHANI

APPROVED BY:

- AFGA

SEAL/SIGNATURE:

FILE REF. / NAME:

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SCALE:

AS NOTED

ISSUE DATE:

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P-203

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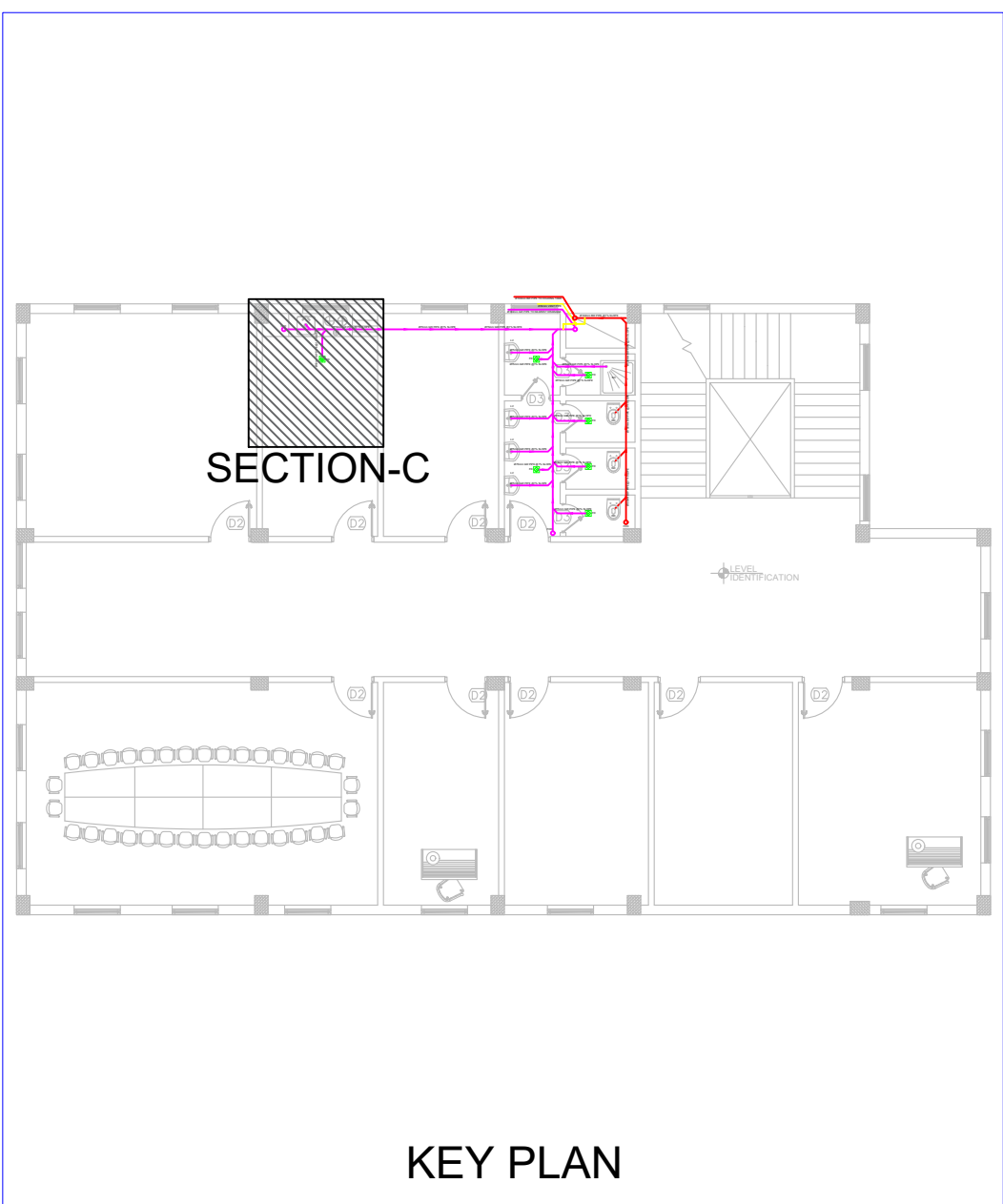
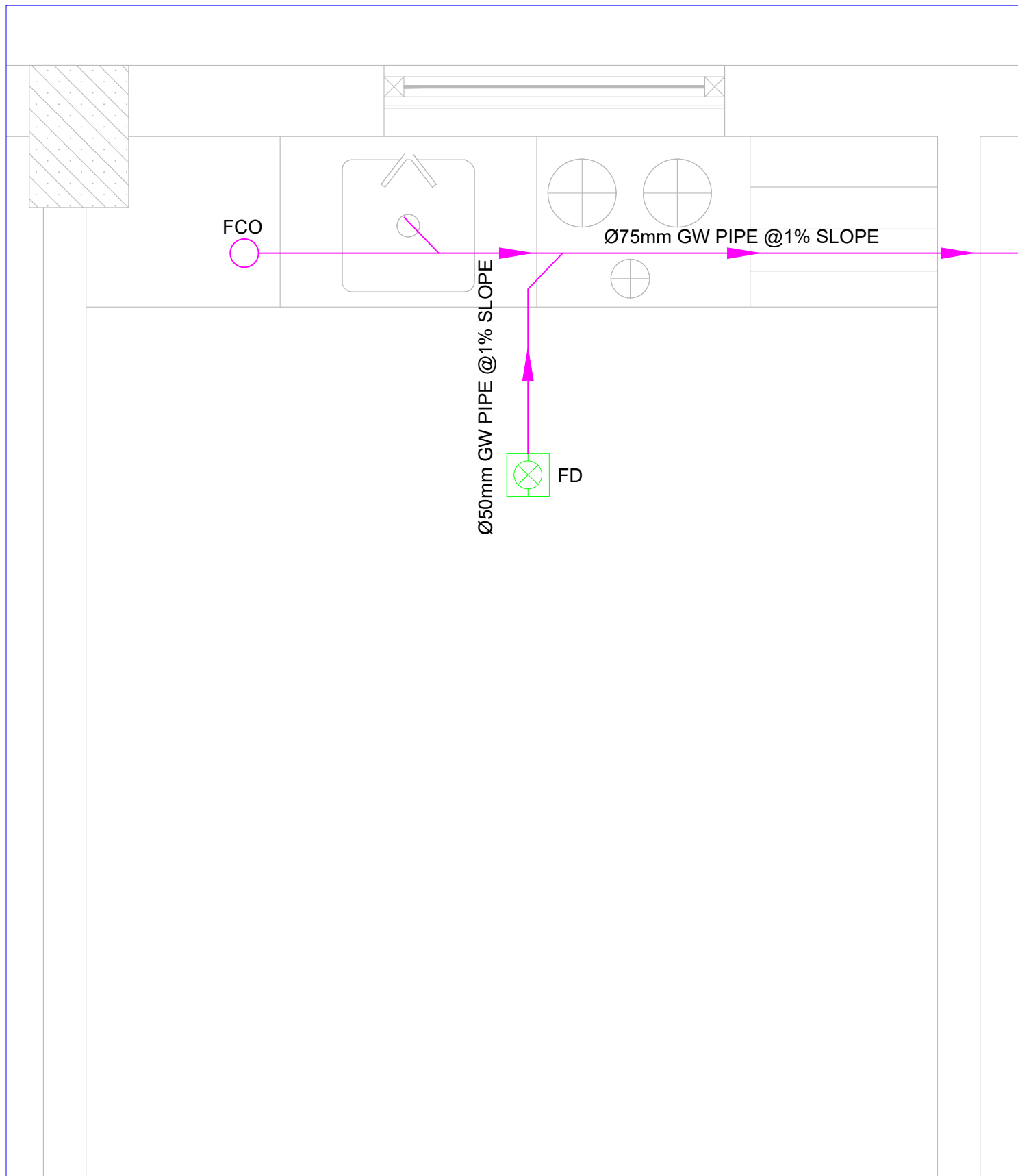
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D

C

B

A



KEY PLAN

TECHNICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SEWER PIPE	FD	FLOOR DRAIN
WC	WATER CLOSET	LV	LAVATORY
SH	SHOWER		FLOW DIRECTION
FCO	FLOOR CLEANOUT	KS	KITCHEN SINK
GW	GRAY WATER		
BW	BLACK WATER		

01 3RD FLOOR SEWER DISTRIBUTION PLAN
P_203 SECTION - C SCALE: 1:32

PROJECT NAME:

FISTULA CARE CENTER IN MALALAI
MATERNITY HOSPITAL IN
KABUL- AFGHANISTAN

OWNER:

AFGHAN FAMILY GUIDANCE ASSOCIATION
FOCAL NAME:
E-MAIL:
CELL #:



DEVELOPER:

WEB:
E-MAIL:
PHONE #:
FAX #:

CLIENT:

MINISTRY OF PUBLIC HEALTH

PROJECT NO / KEY:

DESIGN / PROJECT STATUS:

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KEYPLAN:



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- ENG.GHAFOOR GHANI
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SCALE:

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D

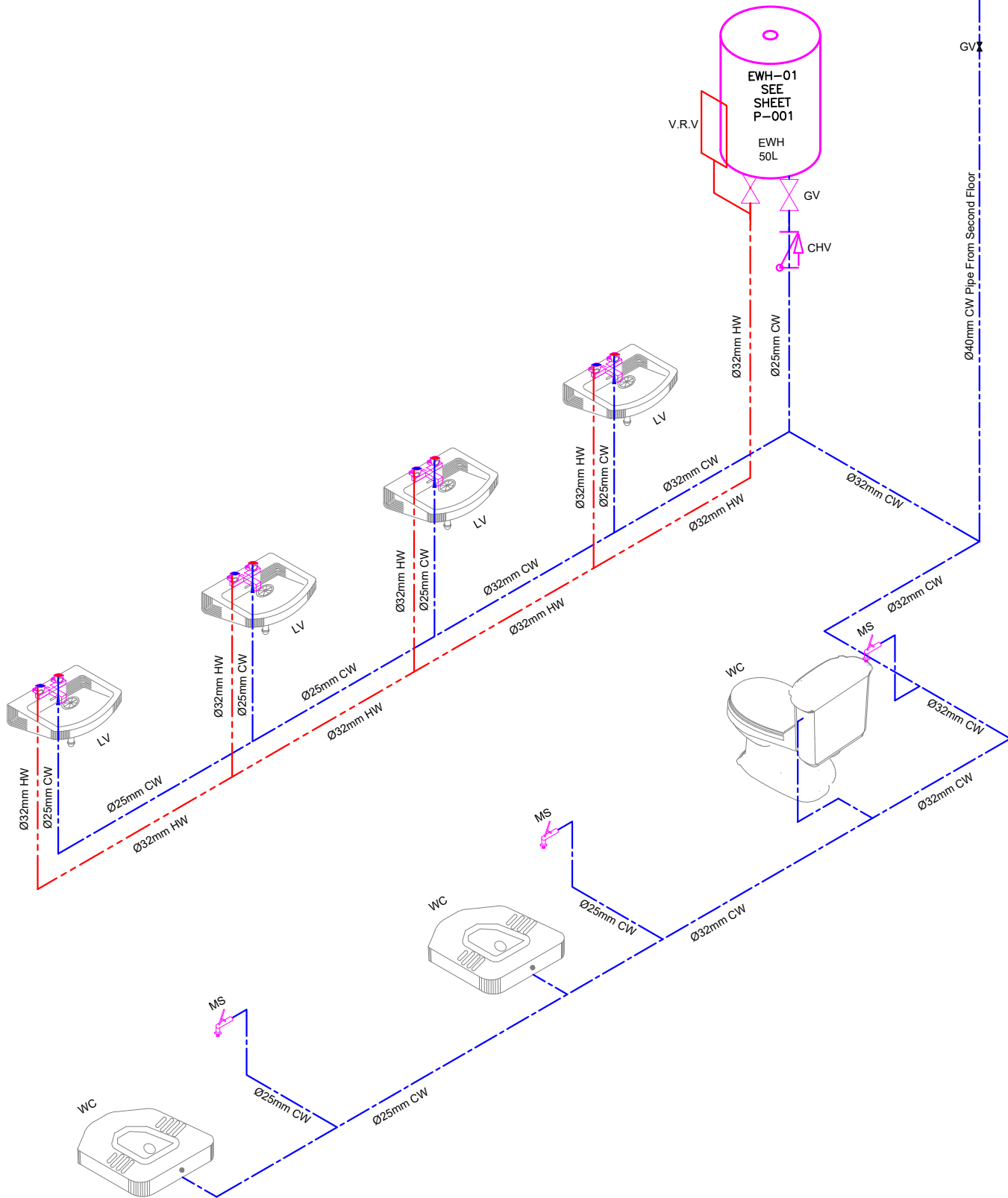
C

B

A

01 FIRST & SECOND FLOOR WATER DISTRIBUTION ISOMETRIC PLAN
P_301 SECTION - A

SCALE: 1:64



PROJECT NAME:

FISTULA CARE CENTER IN MALALAI
MATERNITY HOSPITAL IN
KABUL- AFGHANISTAN

OWNER:

AFGHAN FAMILY GUIDANCE ASSOCIATION
FOCAL NAME:
E-MAIL:
CELL #:



DEVELOPER:

WEB:
E-MAIL:
PHONE #:
FAX #:

CLIENT:

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PROJECT NO / KEY:

DESIGN / PROJECT STATUS:

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KEYPLAN:



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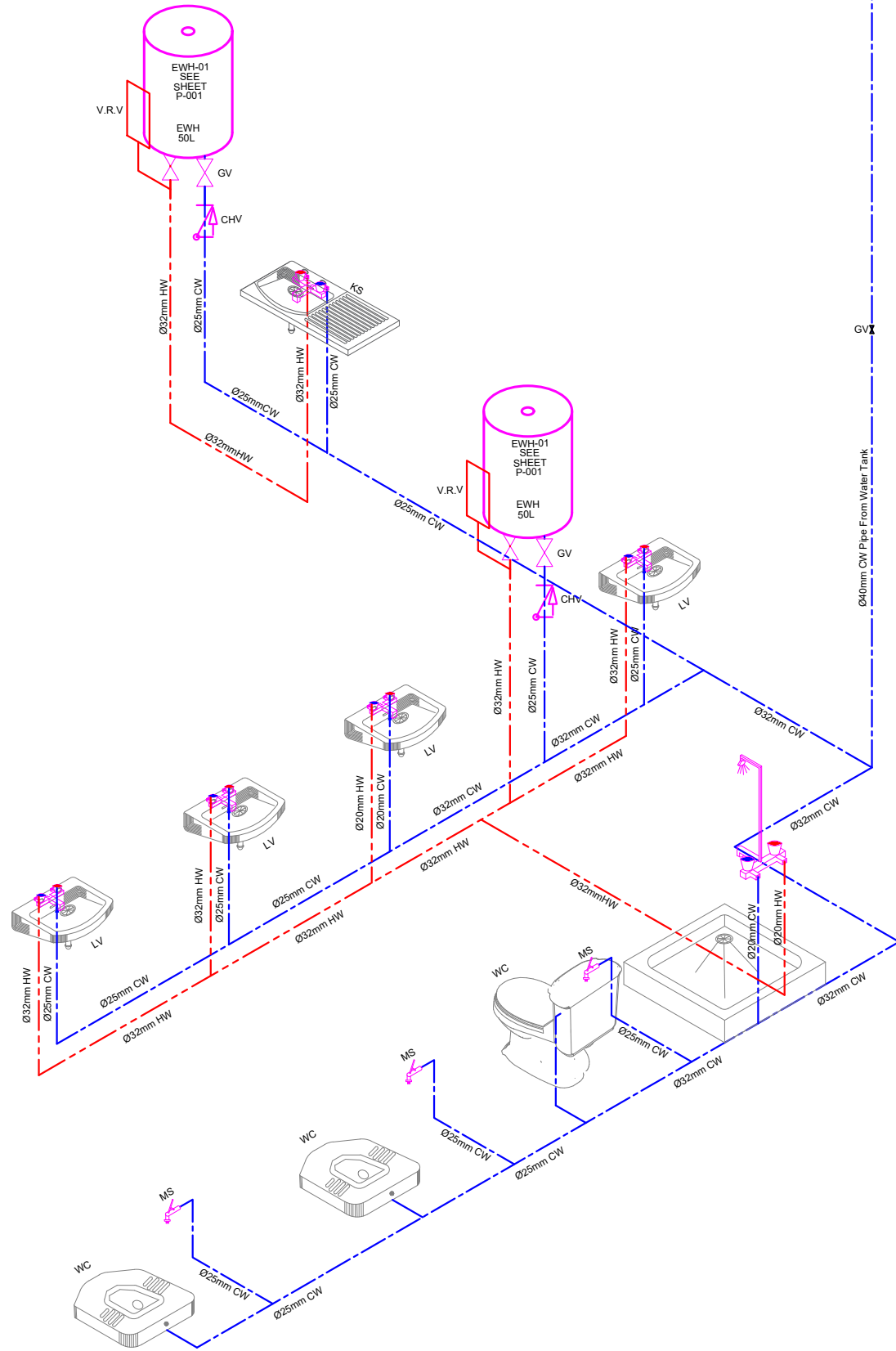
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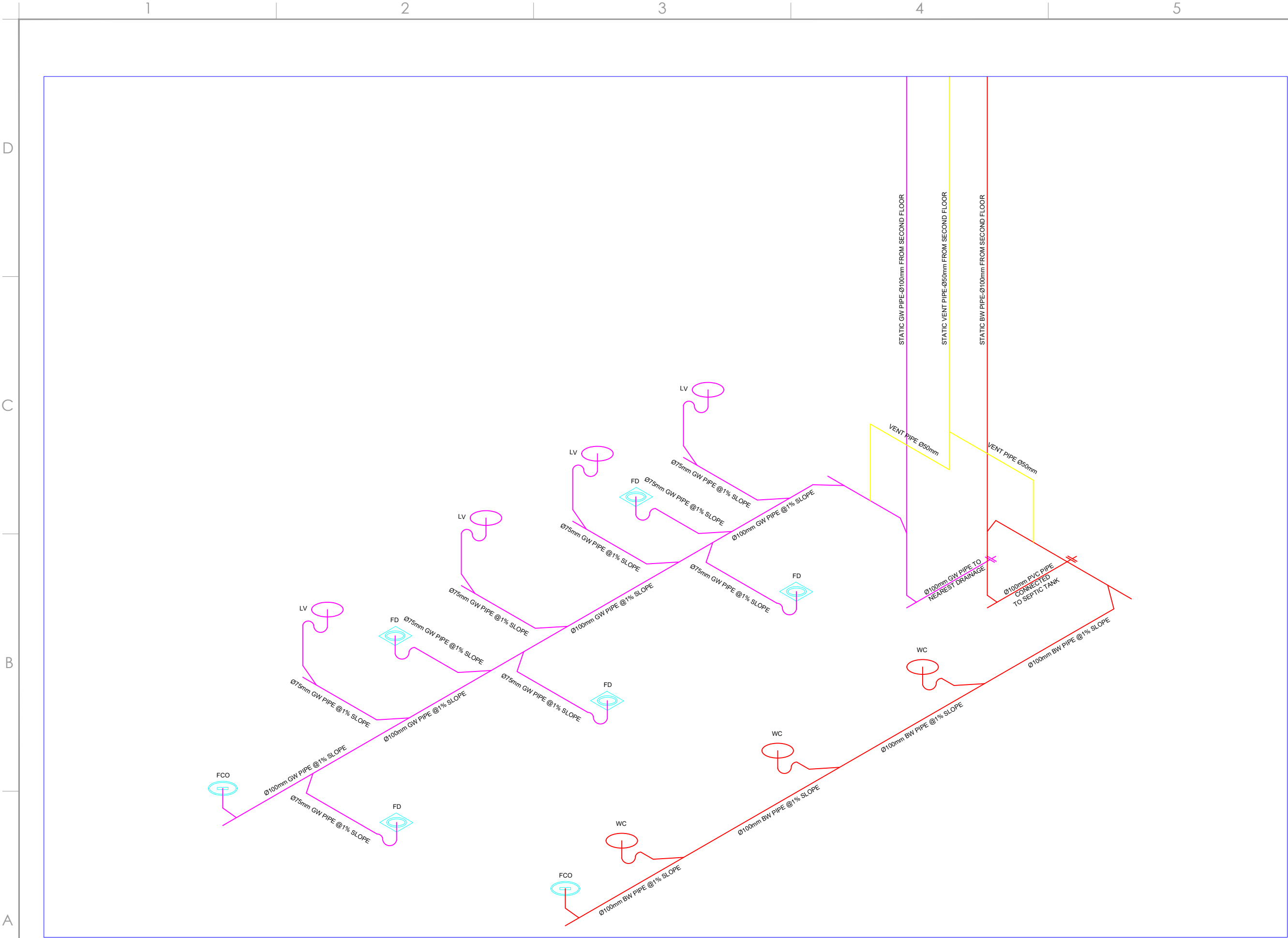
P-302

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01 3RD FLOOR WATER DISTRIBUTION ISOMETRIC PLAN
P_302 SECTION - B,C SCALE: 1:64



01 SEWER DISTRIBUTION ISOMETRIC PLAN
P_401 SECTION - A SCALE: 1:50

PROJECT NAME:

FISTULA CARE CENTER IN MALALAI
MATERNITY HOSPITAL IN
KABUL- AFGHANISTAN

OWNER:

AFGHAN FAMILY GUIDANCE ASSOCIATION
FOCAL NAME:
E-MAIL:
CELL #:



DEVELOPER:

WEB:
E-MAIL:
PHONE #:
FAX #:

CLIENT:

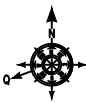
MINISTRY OF PUBLIC HEALTH

PROJECT NO / KEY:

DESIGN / PROJECT STATUS:

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KEYPLAN:



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ENG.BAQER AHMADI
REVIEWED BY:
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SCALE:

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ISSUE DATE:

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DRG REF NO:

P-401

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PROJECT NAME:

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OWNER:

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FOCAL NAME:
E-MAIL:
CELL #:



DEVELOPER:

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PHONE #:
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CLIENT:

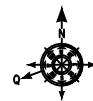
MINISTRY OF PUBLIC HEALTH

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KEYPLAN:



QIBLA FOR
KABUL = 253°
FROM NORTH

DRAWN BY:
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ENG.BAQER AHMADI
REVIEWED BY:
- ENG.GHAFOOR GHANI
APPROVED BY:
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SCALE:

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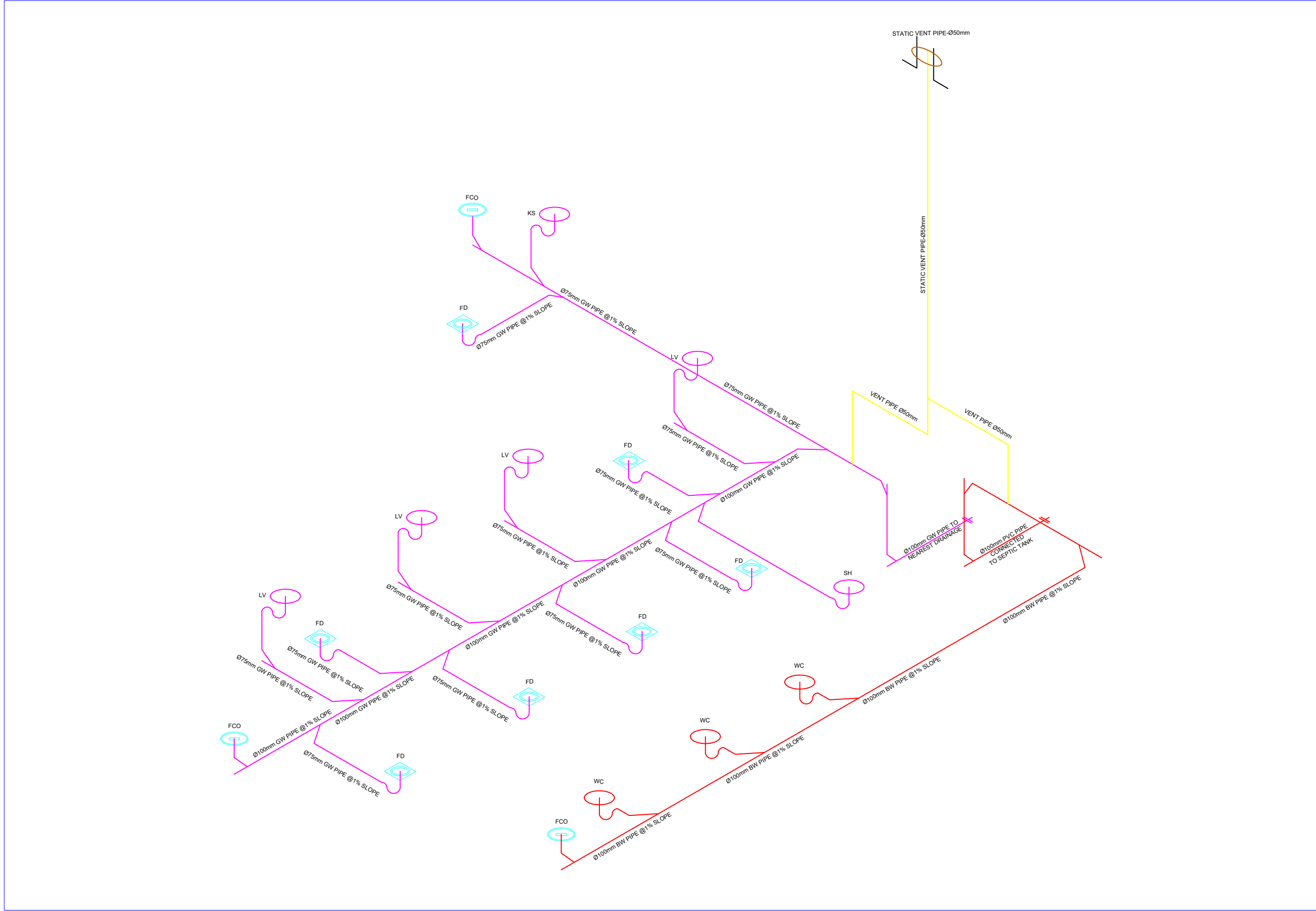
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P-402

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01 3RD FLOOR SEWER DISTRIBUTION ISOMETRIC PLAN
P_402 SECTION - B,C SCALE: 1:50

PROJECT NAME:

FISTULA CARE CENTER IN MALALAI
MATERNITY HOSPITAL IN
KABUL- AFGHANISTAN

OWNER:

AFGHAN FAMILY GUIDANCE ASSOCIATION
FOCAL NAME:
E-MAIL:
CELL #:



DEVELOPER:

WEB:
E-MAIL:
PHONE #:
FAX #:

CLIENT:

MINISTRY OF PUBLIC HEALTH

PROJECT NO / KEY:

DESIGN / PROJECT STATUS:

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KEYPLAN:



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CHECKED BY:

ENG.BAQER AHMADI

REVIEWED BY:

- ENG.GHAFOOR GHANI

APPROVED BY:

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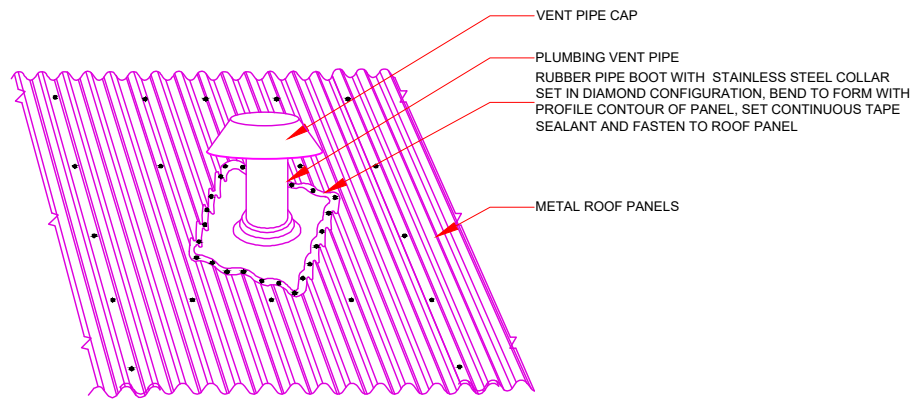
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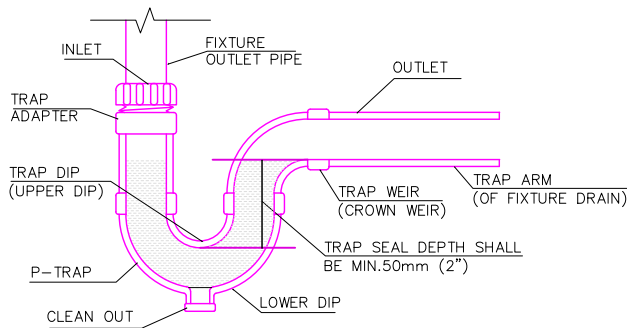
P-501

SHEET 15 of 25

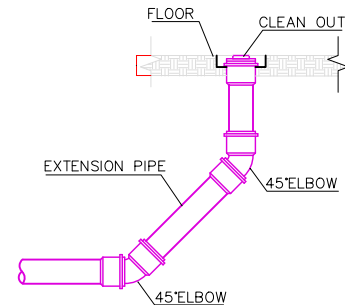
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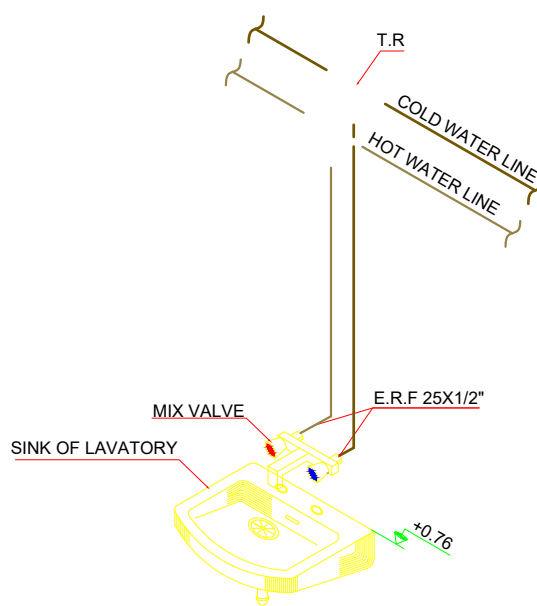
03 PLUMBING VENT THROUGH ROOF DETAIL
P_101 SCALE: NTS



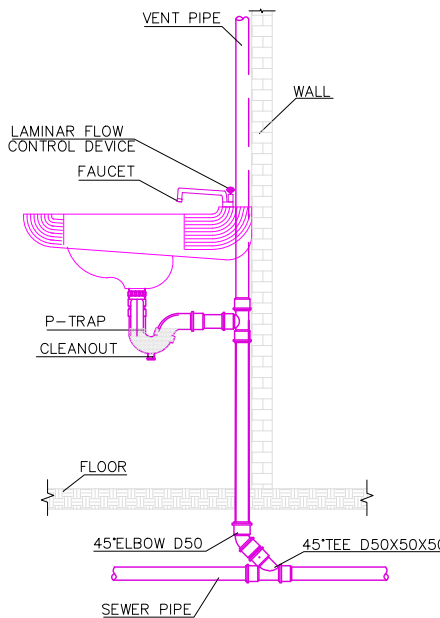
04 P-TRAP DETAIL
P_101 SCALE: NTS



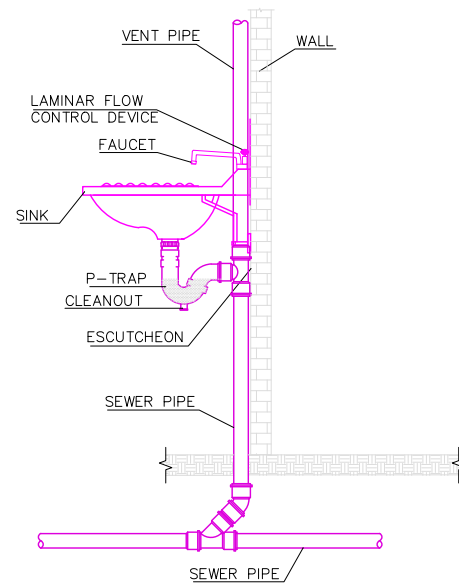
05 CLEANOUT DETAIL
P_101 SCALE: NTS



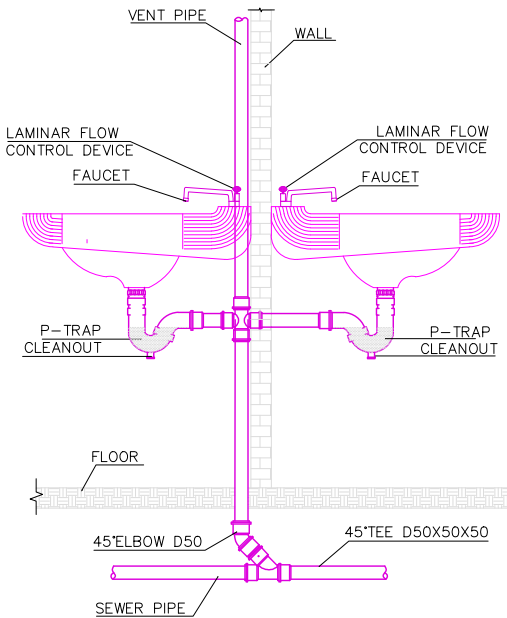
01 LAVATORY DETAIL
P_101 SCALE: NTS



06 TYPICAL LAVATORY DETAIL
P_101 SCALE: NTS



02 LAVATORY PLUMBING DETAIL
P_101 SCALE: NTS



07 BACK TO BACK LAVATORY DETAIL
P_101 SCALE: NTS

01 BATHROOM DETAILS
P_501 SCALE: 1:50

PROJECT NAME:

FISTULA CARE CENTER IN MALALAI
MATERNITY HOSPITAL IN
KABUL- AFGHANISTAN

OWNER:

AFGHAN FAMILY GUIDANCE ASSOCIATION
FOCAL NAME:
E-MAIL:
CELL #:



DEVELOPER:

WEB:
E-MAIL:
PHONE #:
FAX #:

CLIENT:

MINISTRY OF PUBLIC HEALTH

PROJECT NO / KEY:

DESIGN / PROJECT STATUS:

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KEYPLAN:



DRAWN BY:
- ENG.GHAFOOR GHANI
CHECKED BY:
ENG.BAQER AHMADI
REVIEWED BY:
- ENG.GHAFOOR GHANI
APPROVED BY:
- AFGA

SEAL/SIGNATURE:

FILE REF. / NAME:

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SCALE:

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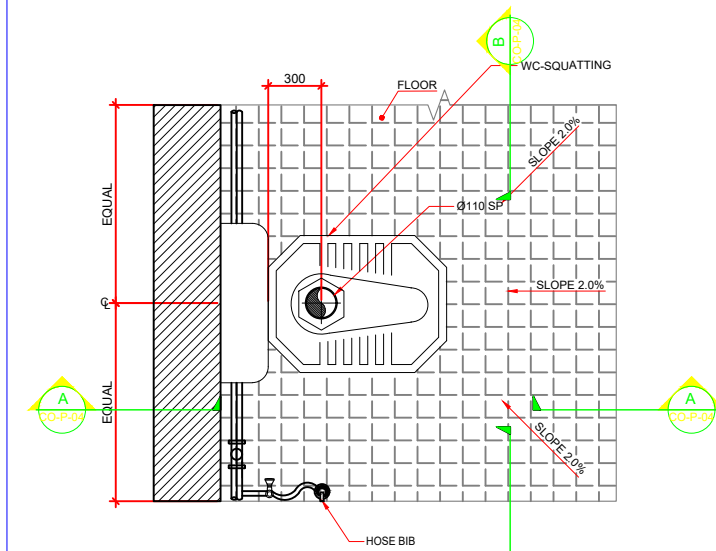
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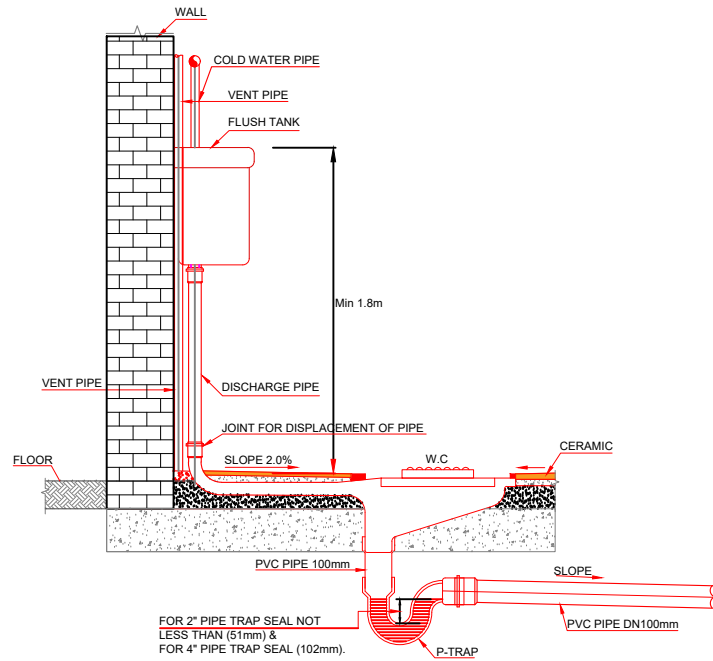
P-502

SHEET 16 of 25

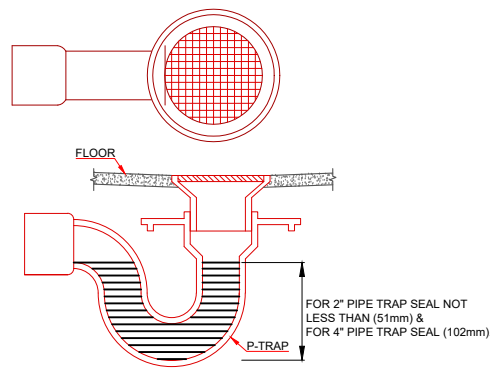
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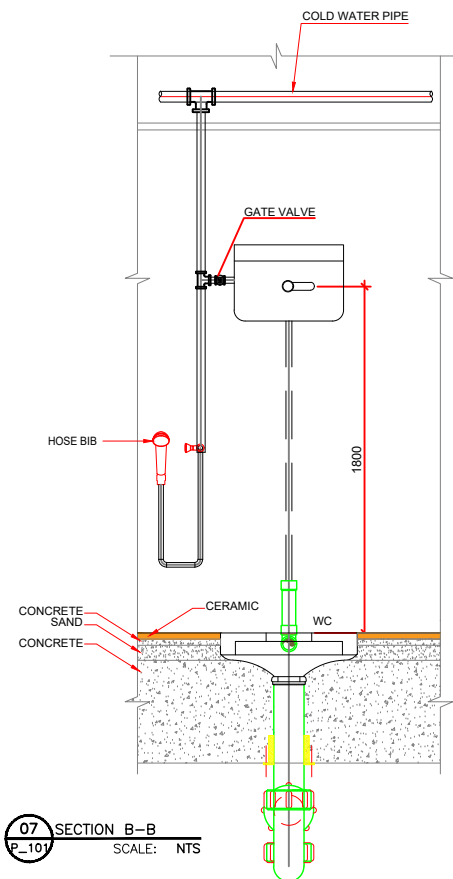
01 WATER CLOSET PLAN
P-101 SCALE: NTS



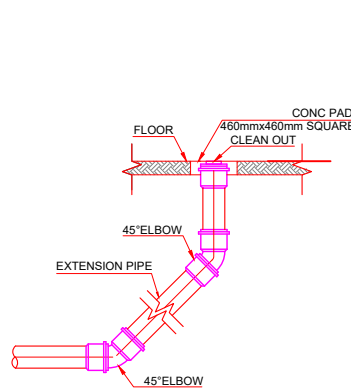
06 SECTION A-A
P-101 SCALE: NTS



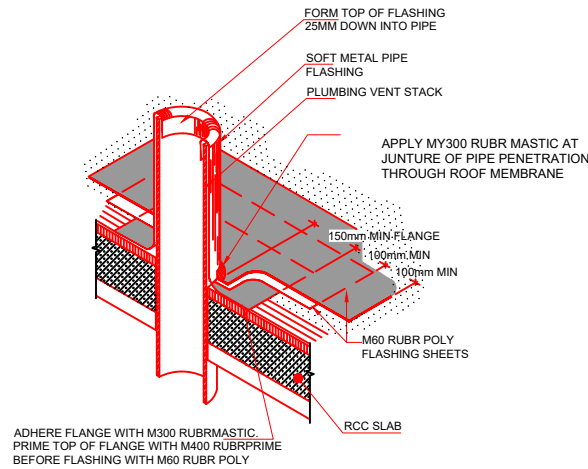
02 FLOOR DRAIN DETAIL
P-101 SCALE: NTS



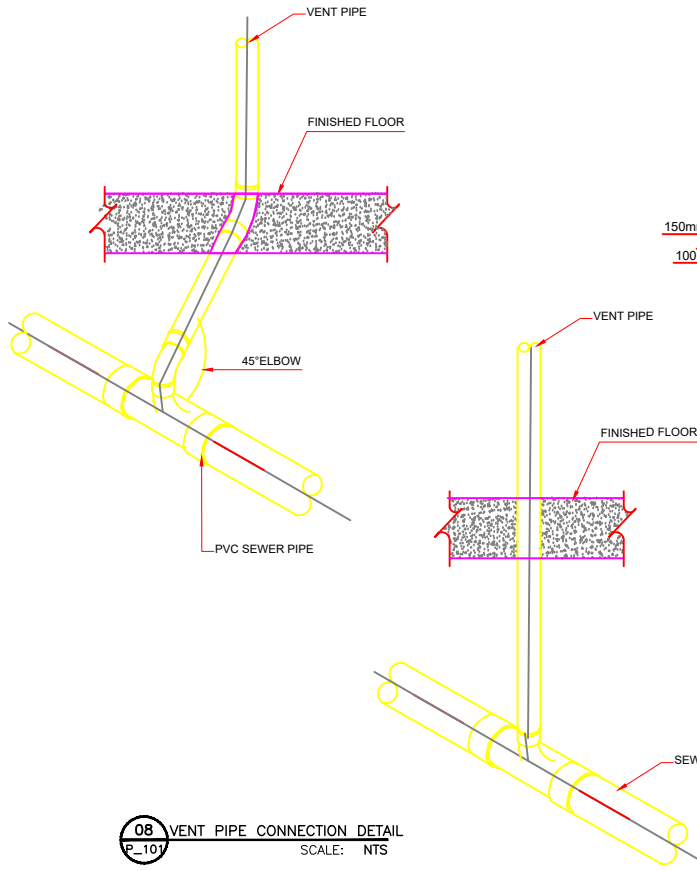
07 SECTION B-B
P-101 SCALE: NTS



03 CLEANOUT DETAIL
P-101 SCALE: NTS



04 VENT THRU ROOF DETAIL
P-101 SCALE: NTS



08 VENT PIPE CONNECTION DETAIL
P-101 SCALE: NTS

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- DRAWING NOT TO BE USED FOR CONSTRUCTION UNTIL STAMPED & SIGNED BY CONSULTANTS AND ISSUED FOR CONSTRUCTION
- DO NOT SCALE DRAWING – ALL SURVEY AND DEMARCATIONS TO BE BASED ON PRINTED DIMENSIONS

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FISTULA CARE CENTER IN MALALAI
MATERNITY HOSPITAL IN
KABUL- AFGHANISTAN

OWNER:

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FOCAL NAME:
E-MAIL:
CELL #:



DEVELOPER:

WEB:
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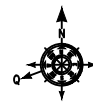
MINISTRY OF PUBLIC HEALTH

PROJECT NO / KEY:

DESIGN / PROJECT STATUS:

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KEYPLAN:



QIBLA FOR
KABUL = 253°
FROM NORTH

DRAWN BY:
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CHECKED BY:
- ENG.BAQER AHMADI
REVIEWED BY:
- ENG.GHAFOOR GHANI
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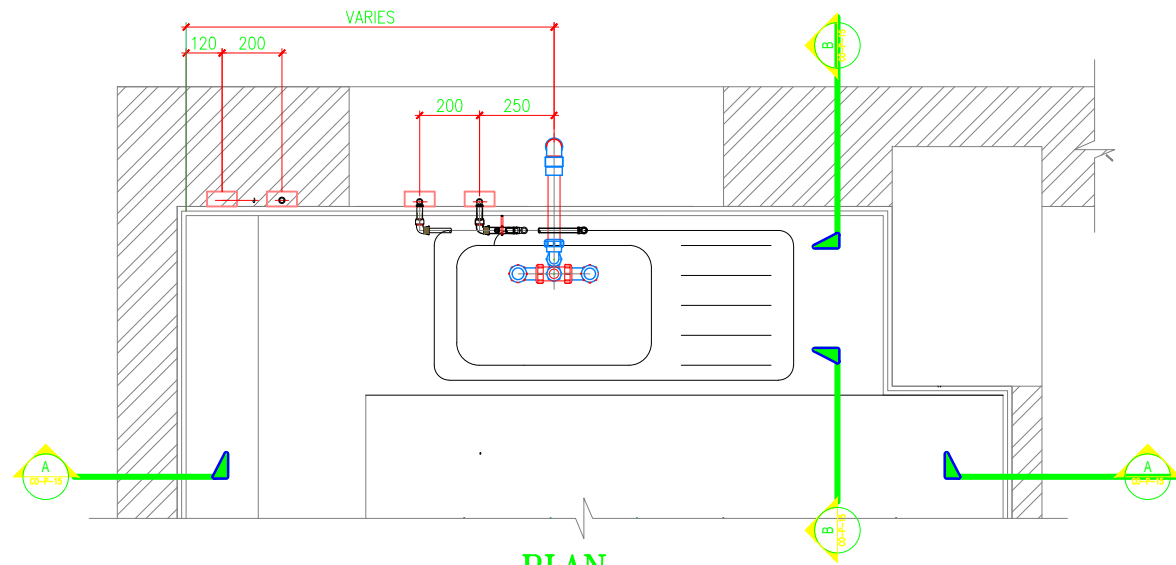
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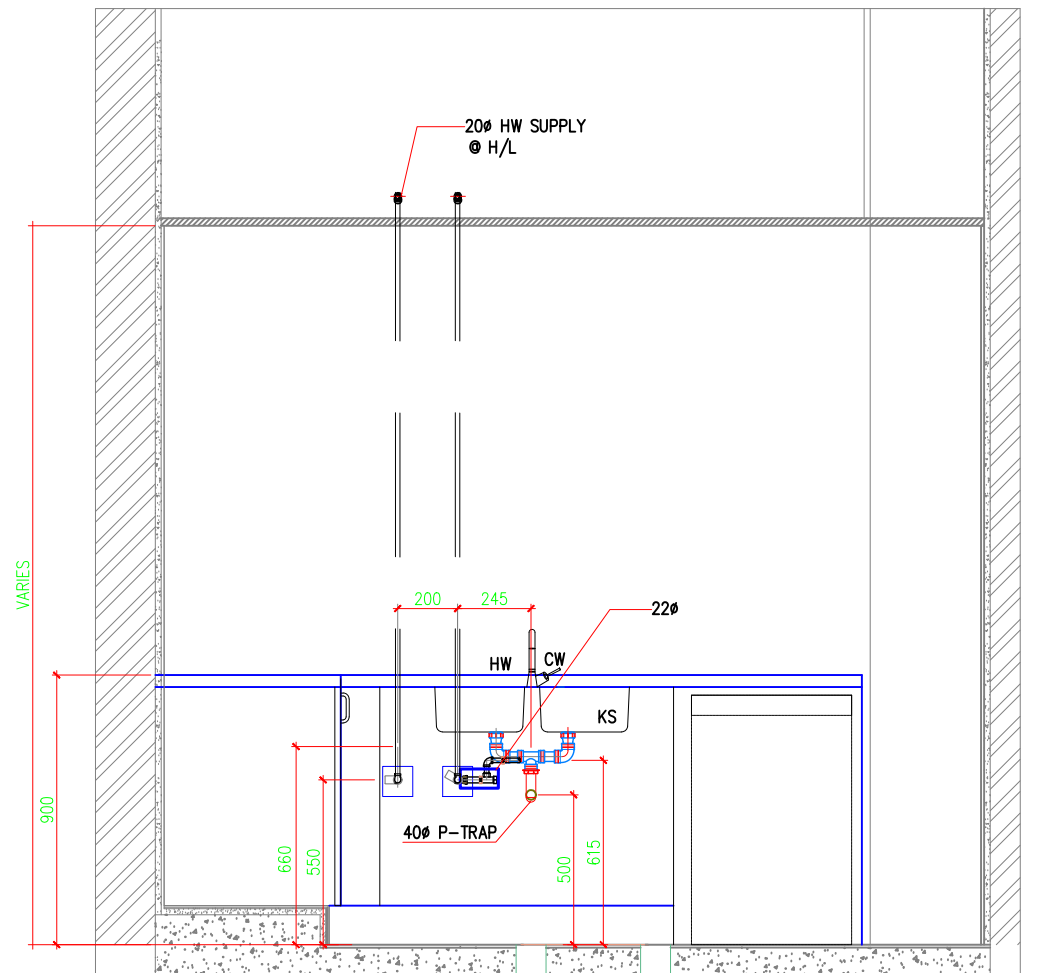
P-504

SHEET 18 of 25

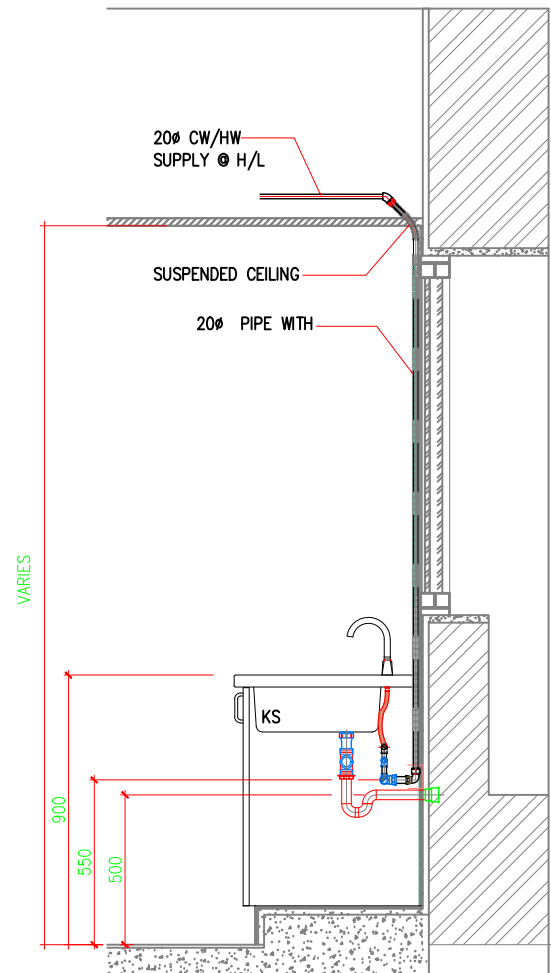
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PLAN



SECTION A-A



SECTION B-B

01 KITCHEN DETAILS
P_504 SECTION - A,B SCALE: 1:50

PROJECT NAME:

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MATERNITY HOSPITAL IN
KABUL- AFGHANISTAN

OWNER:

AFGHAN FAMILY GUIDANCE ASSOCIATION
FOCAL NAME:
E-MAIL:
CELL #:



DEVELOPER:

WEB:
E-MAIL:
PHONE #:
FAX #:

CLIENT:

MINISTRY OF PUBLIC HEALTH

PROJECT NO / KEY:

DESIGN / PROJECT STATUS:

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KEYPLAN:



DRAWN BY: - ENG.GHAFOOR GHANI	SEAL/SIGNATURE:
CHECKED BY: ENG.BAQER AHMADI	
REVIEWED BY: - ENG.GHAFOOR GHANI	
APPROVED BY: - AFGA	

FILE REF. / NAME:

P_101.dwg

SCALE:

AS NOTED

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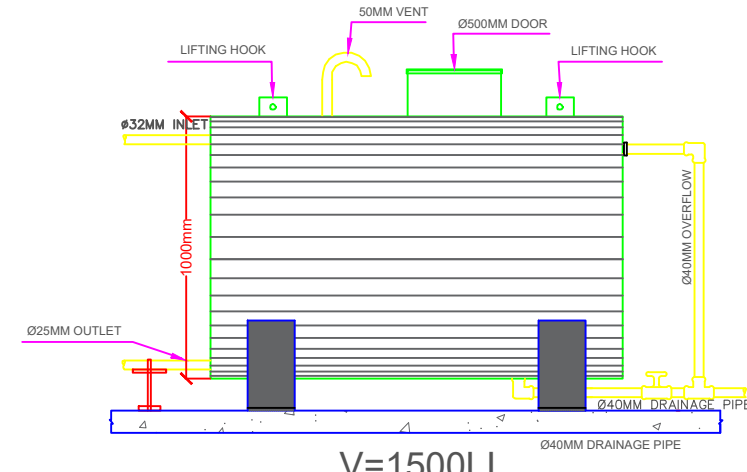
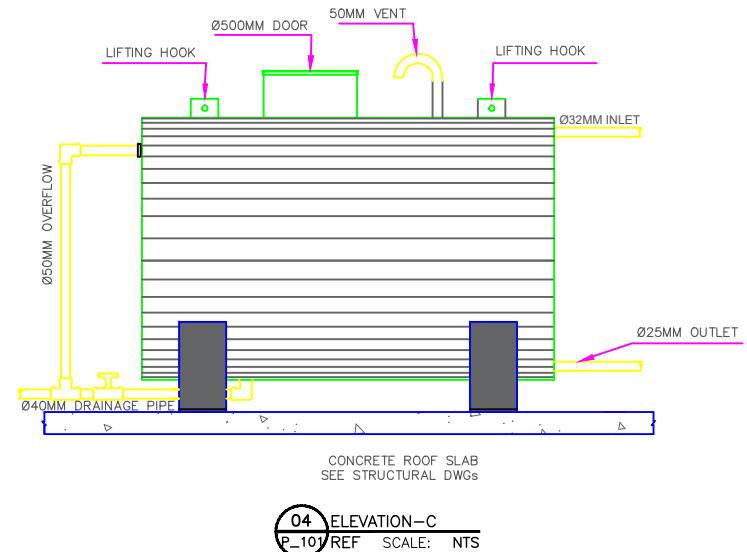
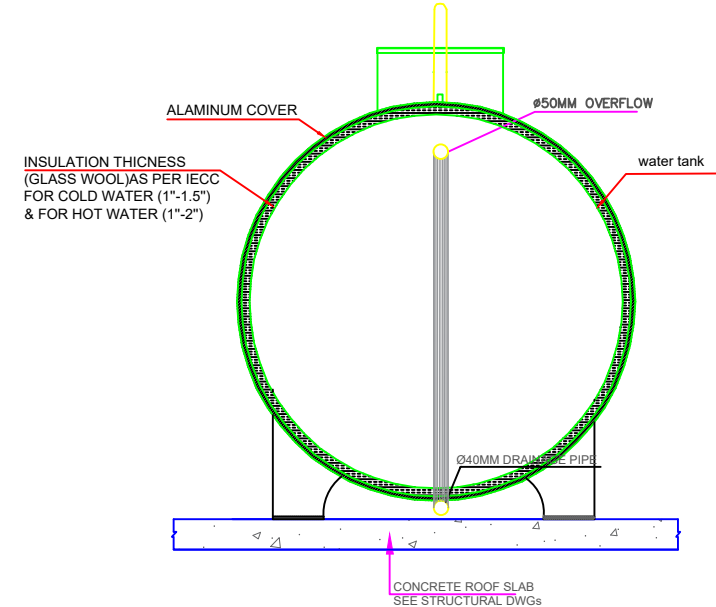
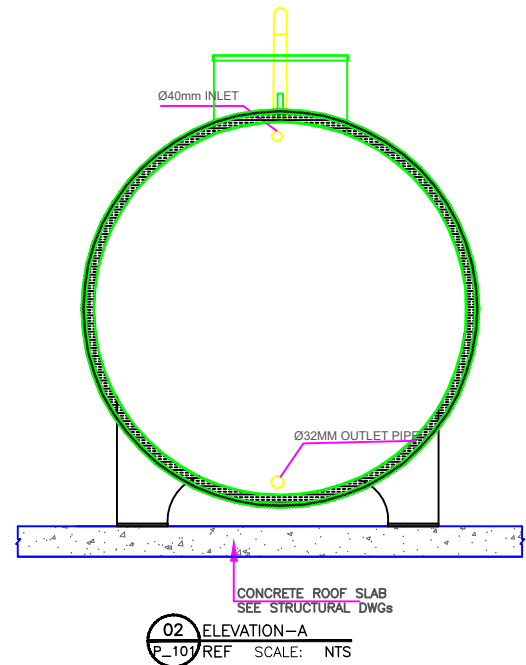
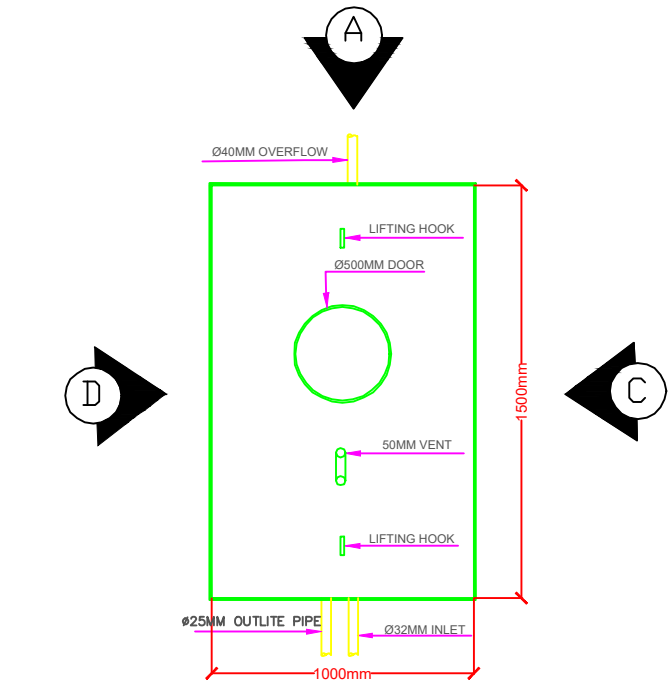
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P-505

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- NOTE:
- 1- WATER TANK MATERIAL SHALL BE GALVANIZED IRON.
 - 2- INSULATION SHOULD BE PROVIDED WHERE REQUIRED TO CONTROL TANK AND PIPES FROM SWEATING OR TO PROVIDE PROTECTION FROM FREEZING.
 - 3- REFER SITE DRAWINGS FOR BUILDING LOCATION AND FOR EXTERNAL SEWER AND WATER NETWORKS.

PROJECT NAME:

FISTULA CARE CENTER IN MALALAI
MATERNITY HOSPITAL IN
KABUL- AFGHANISTAN

OWNER:

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DEVELOPER:

WEB:
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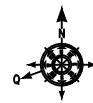
MINISTRY OF PUBLIC HEALTH

PROJECT NO / KEY:

DESIGN / PROJECT STATUS:

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DRAWN BY:
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ENG.BAQER AHMADI
REVIEWED BY:
- ENG.GHAFOOR GHANI
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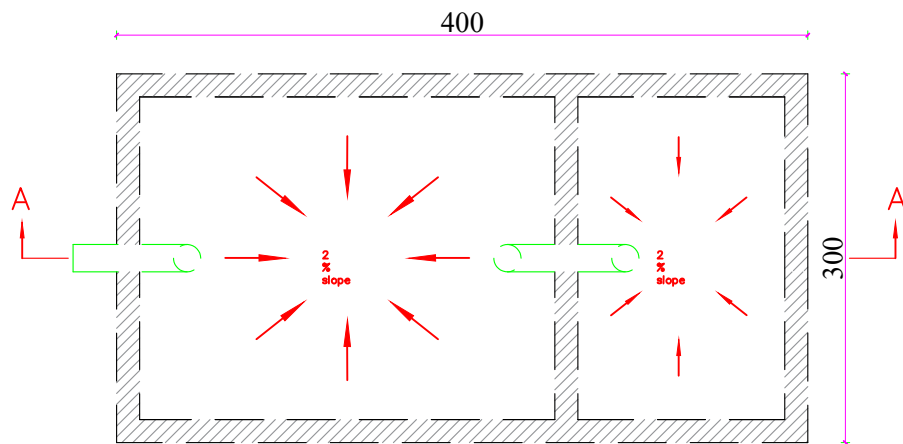
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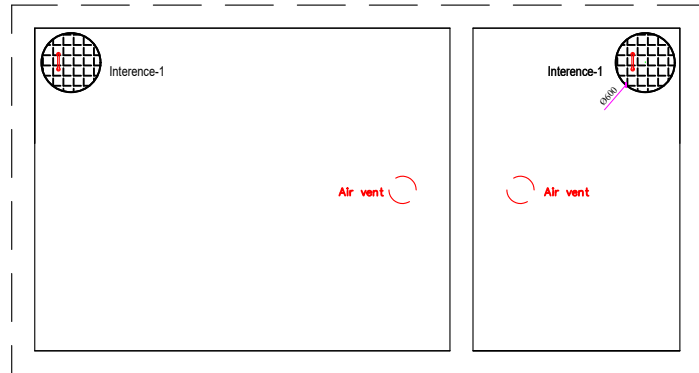
P-506

SHEET 20 of 25

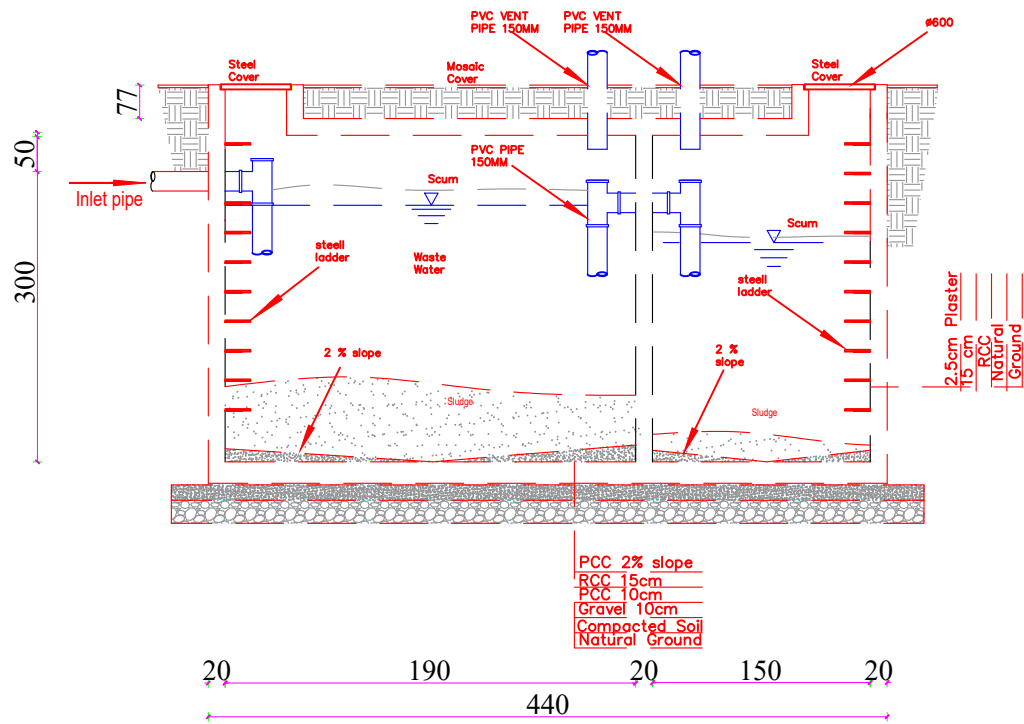
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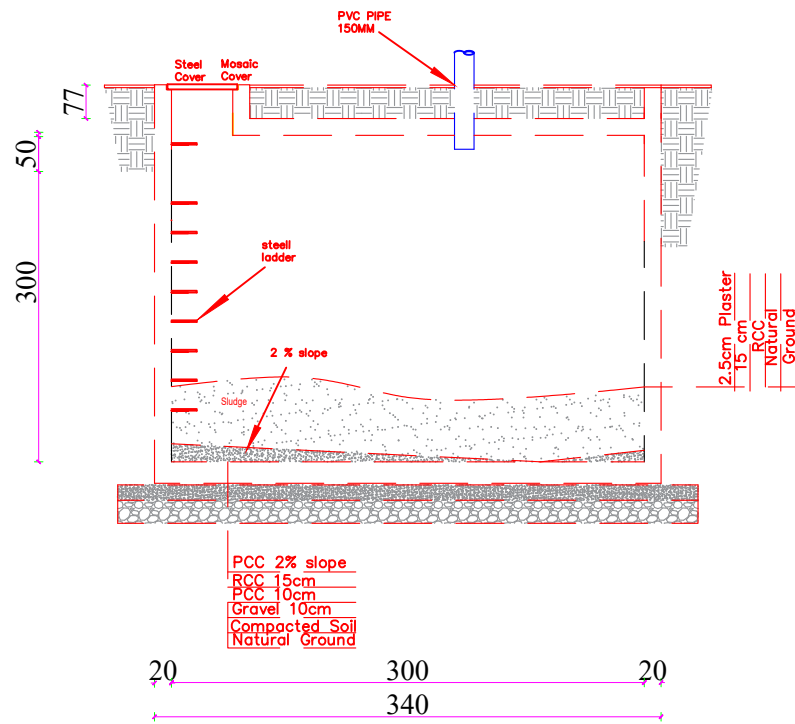
Plan Of
Septic



Top
view



Section
A—A



Section
A—B

D

C

B

A

لست مشخصات کانالیزاسیون و سیستم ابرسانی

شماره	انواع تجهیزات	واحدات	تعداد	قیمت	مجموع
1	نل پلاستیک کانالیزاسیون به قطر d=100mm - d=150mm	متر	30-30	300-620	9000-18600
2	نل پلاستیک کانالیزاسیون به قطر d=75mm	متر	36	210	7560
3	زانخم پلاستیکی کانالیزاسیون به قطر d=100mm 45>	عدد	6	90	540
4	زانخم پلاستیکی کانالیزاسیون به قطر d=150mm 45>	عدد	16	400	6400
5	زانخم پلاستیکی کانالیزاسیون به قطر d=75mm 45>	عدد	15	100	1500
6	سه دهن پلاستیکی به قطر d=100 /100mm 45> d=150/100mm 45>	عدد	6-2	240-650	1440-1300
7	سه دهن پلاستیکی به قطر d=100/75mm 45>	عدد	29	240	6960
8	سه دهن پلاستیکی به قطر d=75 /75mm 45>	عدد	20	200	4000
9	دستشوي مكمال اسباب	كامپليټ	12	5300	63600
10	كمود مكمال اسباب	كامپليټ	3-6	11700 -5200	31200-35100
11	ظرفشوي مكمال اسباب	كامپليټ	1	5100	5100
12	شاوړ مكمال الاسباب	كامپليټ	1	2400	2400
13	بايلر برقی 50لیتره مكمال الاسباب	كامپليټ	4	9900	39600
14	نل p.p.r به قطر d=40mm	متر	16	150	2400
15	نل p.p.r به قطر d=25mm	متر	90	110	9900
16	اشتت d=0.5inch	عدد	4	30	120
17	نیچه d=0.5inch	عدد	4	100	400
18	زانوخم p.p.r به قطر d=40mm	عدد	5	55	275
19	سرش اصلی 717	عدد	4	800	3200
20	میخ هوک	عدد	120	10	1200
21	نوار ثقلون کلان دینا	عدد	15	50	750
22	کلین اوت	عدد	11	110	1210

01
P_508

ESTIMATION

SCALE: 1:32

PROJECT NAME:

FISTULA CARE CENTER IN MALALAI
MATERNITY HOSPITAL IN
KABUL- AFGHANISTAN

OWNER:

AFGHAN FAMILY GUIDANCE ASSOCIATION
FOCAL NAME:
E-MAIL:
CELL #:



DEVELOPER:

WEB:
E-MAIL:
PHONE #:
FAX #:

CLIENT:

MINISTRY OF PUBLIC HEALTH

PROJECT NO / KEY:

DESIGN / PROJECT STATUS:

FOR TENDER ONLY

KEYPLAN:



DRAWN BY: - ENG.GHAFOOR GHANI	SEAL/SIGNATURE:
CHECKED BY: ENG.BAGER AHMADI	
REVIEWED BY: - ENG.GHAFOOR GHANI	
APPROVED BY: - AFGA	

FILE REF. / NAME:

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SCALE:

AS NOTED

ISSUE DATE:

10-Sep-2025

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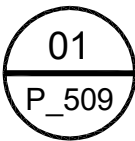
SHEET 22 of 25

CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS & OMISSIONS TO THE CONSULTANTS * DRAWING NOT TO BE USED FOR CONSTRUCTION UNTIL STAMPED & SIGNED BY CONSULTANTS AND ISSUED FOR CONSTRUCTION * DO NOT SCALE DRAWING - ALL SURVEY AND DEMARICATIONS TO BE BASED ON PRINTED DIMENSIONS

لست مشخصات کانالیزاسیون و سیستم ابرسانی

1140	30	38	عدد	d=25mm	زانوخم p.p.r به قطر	23
4900	70	70	عدد	d=25/20mm	زانوخم p.p.r داخل چوری به قطر	24
300	150	2	عدد	d=32mm	زانوخم p.p.r داخل چوری به قطر	25
1050	15	70	عدد	d=20mm	فلق	26
60	30	2	عدد	d=32mm	فلق	27
250	25	10	عدد	d=32/25mm	بوئلی	28
240	40	6	عدد	d=32/40mm	بوئلی	29
300	100	3	عدد	d=63/40mm	بوئلی	30
280	140	2	عدد	d=63/63mm	سه دهن p.p.r به قطر	31
390	130	3	عدد	d=63/40mm	سه دهن p.p.r به قطر	32
330	55	6	عدد	d=40/32mm	سه دهن p.p.r به قطر	33
330	55	6	عدد	d=40/25mm	سه دهن p.p.r به قطر	34
350	35	10	عدد	d=32/25mm	سه دهن p.p.r به قطر	35
1000	20	50	عدد	d=25/25mm	سه دهن p.p.r به قطر	36
80	40	2	عدد	d=32mm	سه دهن p.p.r به قطر	37
140	70	2	عدد	d=63mm	کب	38
2640	330	8	عدد	d=32mm	p.p.r وال	39
3100	3100	1	عدد	d=63mm	وال برنجی به قطر	40
3400	200	17	عدد		پایشویه	41
2280	380	6	عدد	d=32mm	پیوند p.p.r چوری دار	42
600	40	15	عدد	d=25mm	بل	43
1000	500	2	عدد	d=40mm	پیوند p.p.r یک سر چوری	44
15000	15000	1	عدد	v=2m³	تانک ارتفاع	45
2500	2500	1	عدد	Ø=60cm	منحول به قطر	46
295415					مجموع	

1850000	تهیه و نصب سیستم مرکز گرمی با تمام معیار های انجینیری و امورات ایجابی آن	
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ESTIMATION

SCALE: 1:32

PROJECT NAME:

FISTULA CARE CENTER IN MALALAI
MATERNITY HOSPITAL IN
KABUL- AFGHANISTAN

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- ENG.BAQER AHMADI
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- ENG.GHAFOOR GHANI
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- AFGA

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SHEET 23 of 25

PROJECT NAME:

FISTULA CARE CENTER IN MALALAI
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OWNER:

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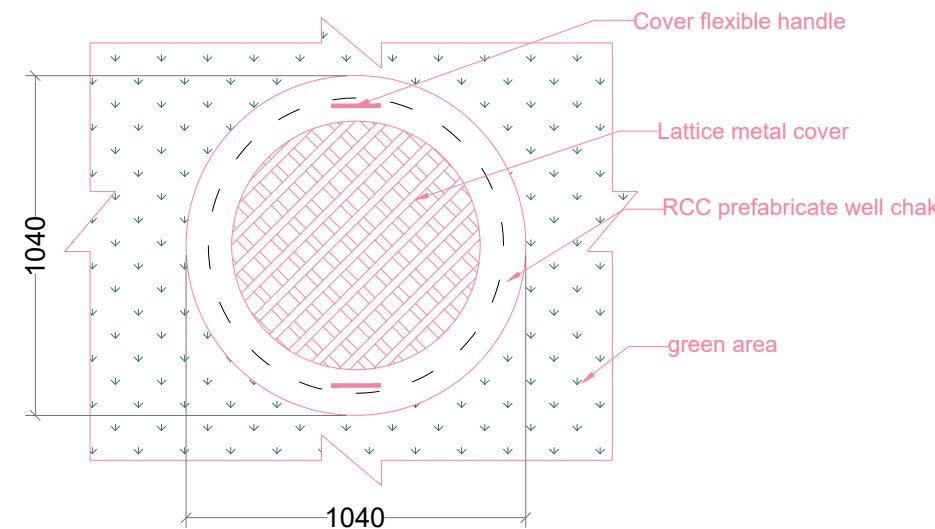
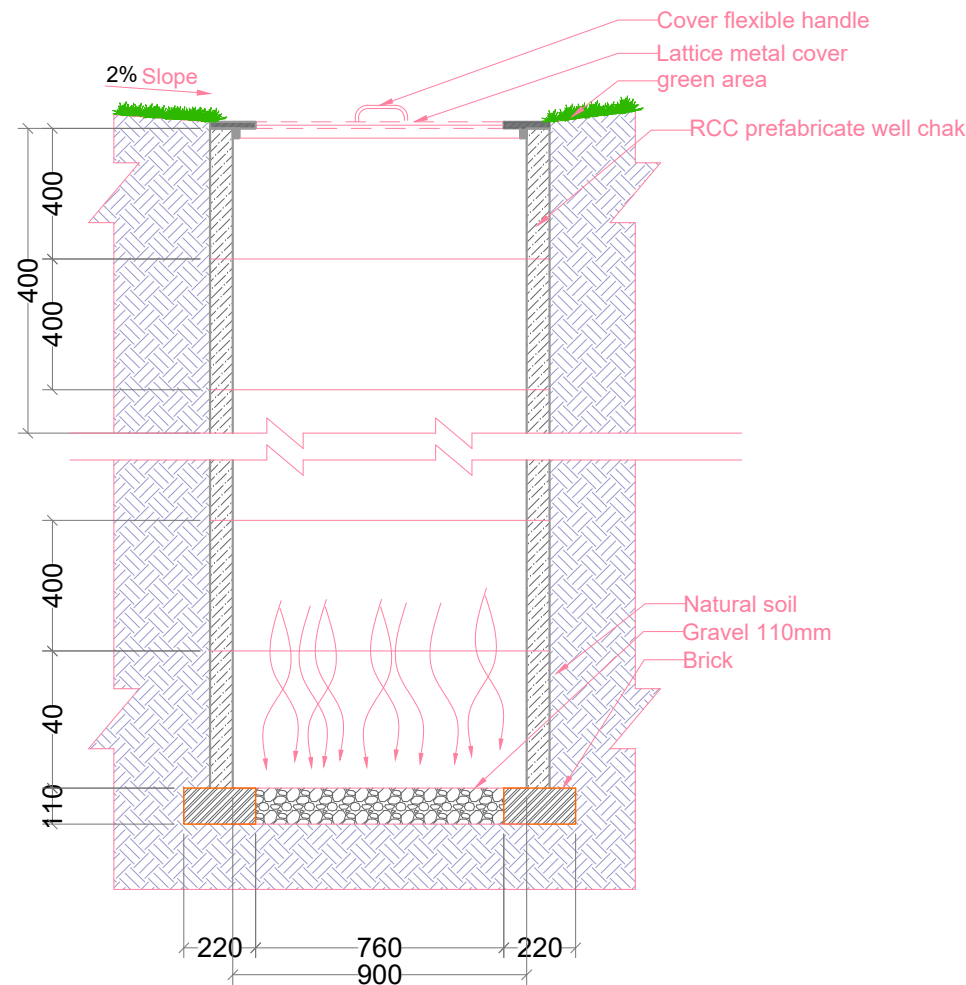
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01 ABSORPTION WELL
P_101 SECTION - A SCALE: 1:50

1

2

3

4

5

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/ 1:100 / Nasrullah / HP Deskjet 1220C.pc3

PROJECT NAME:

FISTULA CARE CENTER IN MALALAI
MATERNITY HOSPITAL IN
KABUL- AFGHANISTAN

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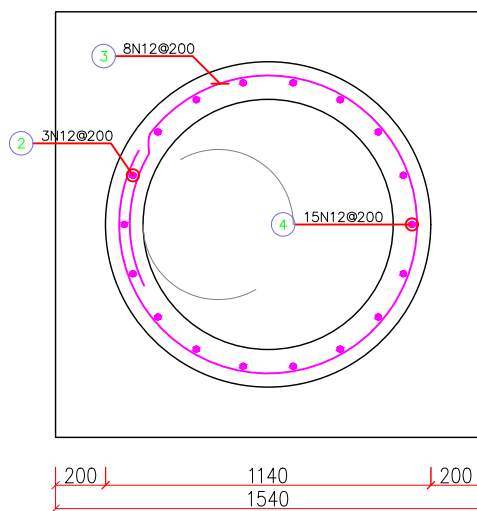
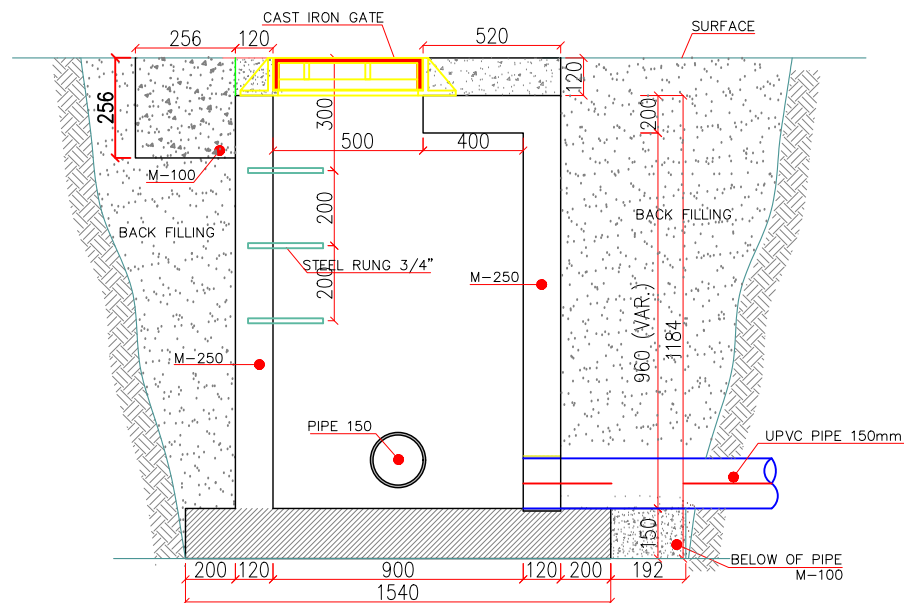
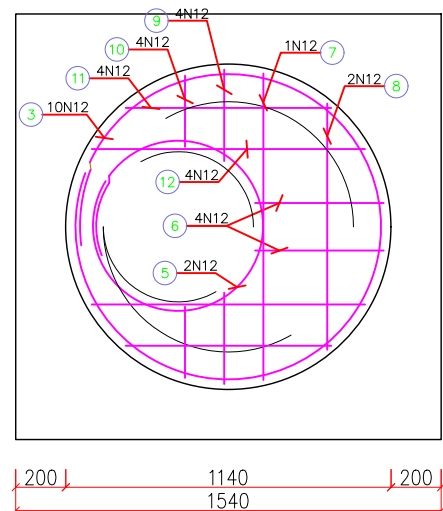
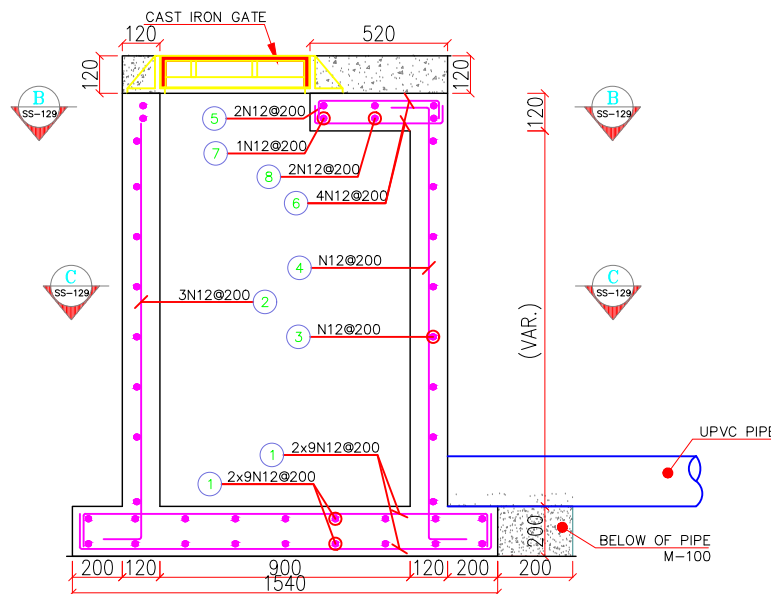
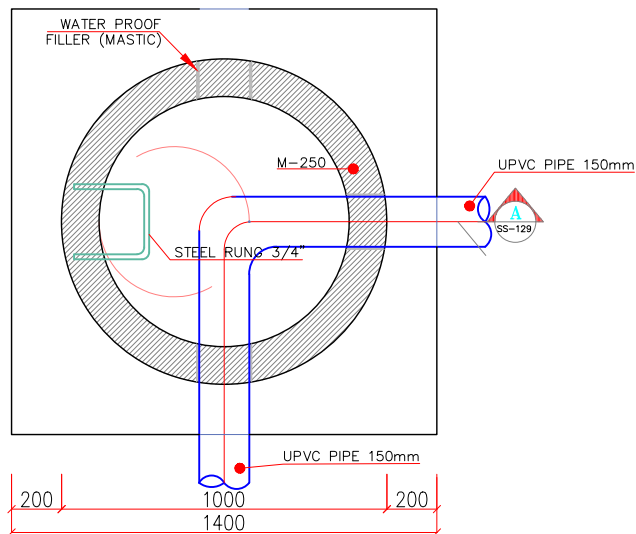
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01 MANHOLE SECTION, DETAIL & SPEC
P_511 SECTION - A SCALE: 1:50