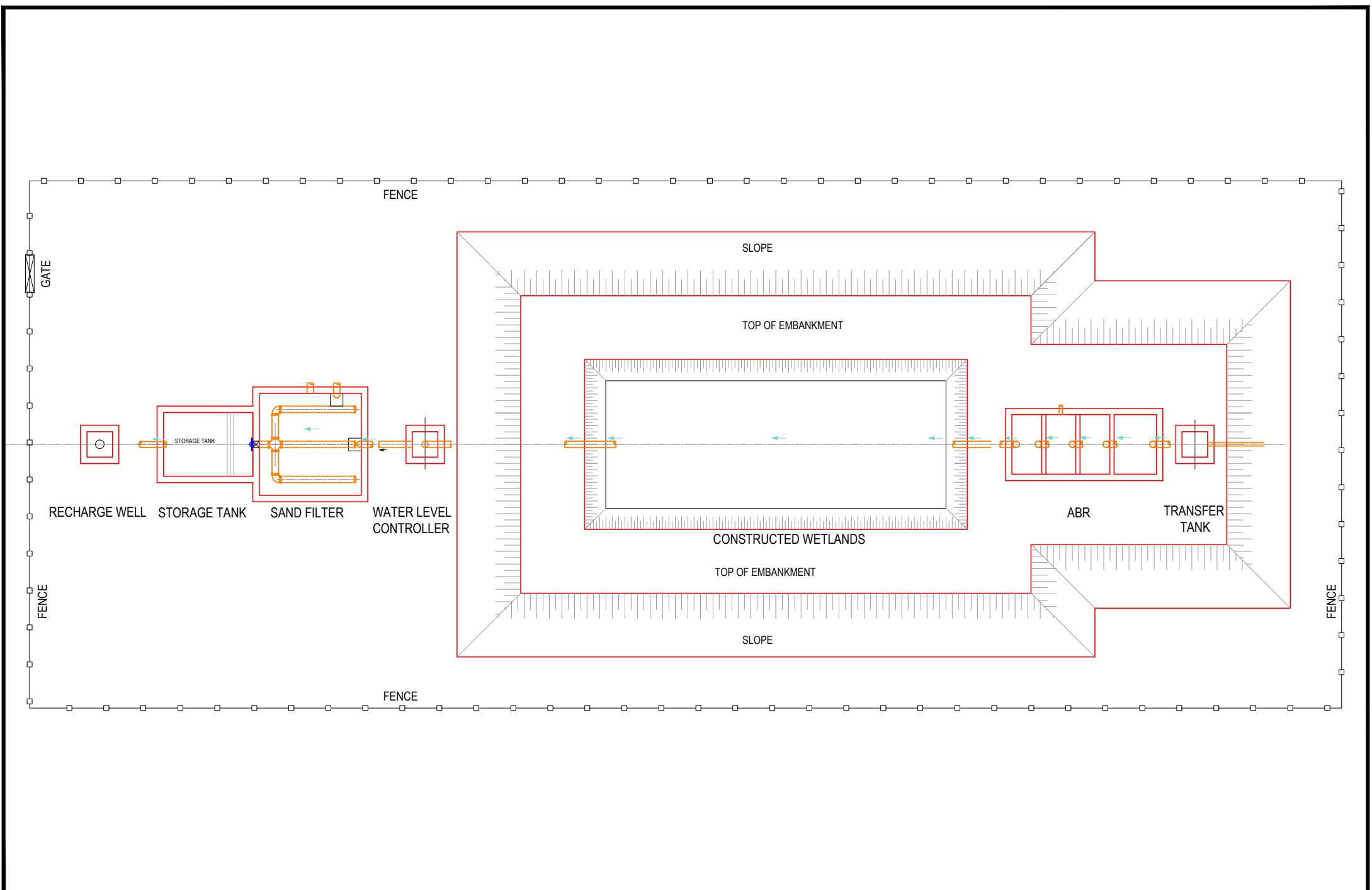

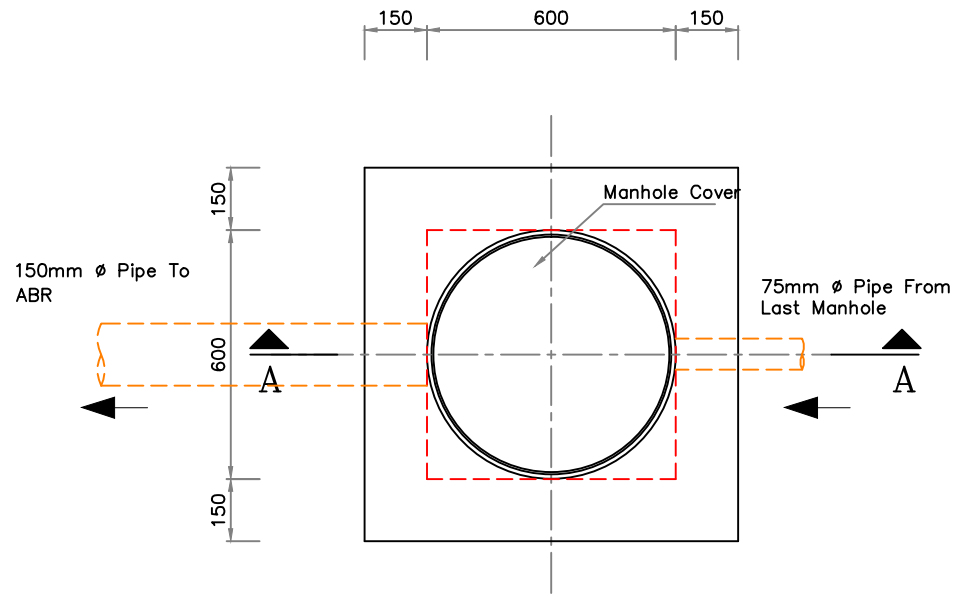


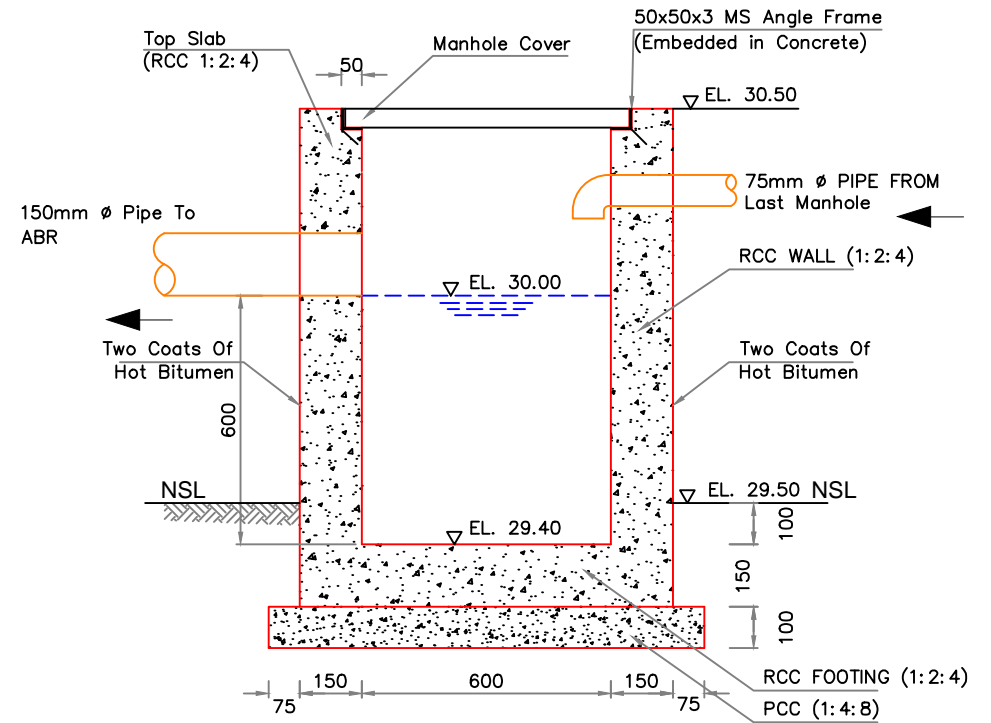
# **Construction Drawings**



<b>CLIENT:</b>  <b>WATERAID PAKISTAN</b>	<b>CONSULTANTS:</b> EMINENCE ONE CONSULTANTS 111-G PHASE I DHA Lahore Tel : (92-42) 35743050 E-mail : epc_04@yahoo.com	<b>PROJECT:</b> DETAILED DESIGN OF RAINWATER HARVESTING UNDER GROUND RECHARGE AND WASTEWATER TREATMENT SYSTEM UNDER ZLD(ZERO LIQUID DISCHARGE) OF RHC CHAK 53M LODHARAN	<b>NOTES:</b>  	<b>DRAWN BY:</b> M YASIN	<b>DRAWING TITLE:</b> ZLD SYSTEM LAYOUT RURAL HEALTH CENTER 53 M	<b>DRAWING NO:</b> RHC-LD-S-01	
				<b>CHECKED BY:</b> SALMAN AKHTAR		<b>SCALE:</b> N.T.S	<b>SHEET:</b> 1 OF 1
<b>REVISIONS</b>			<b>DATE:</b> MAR. 2024				




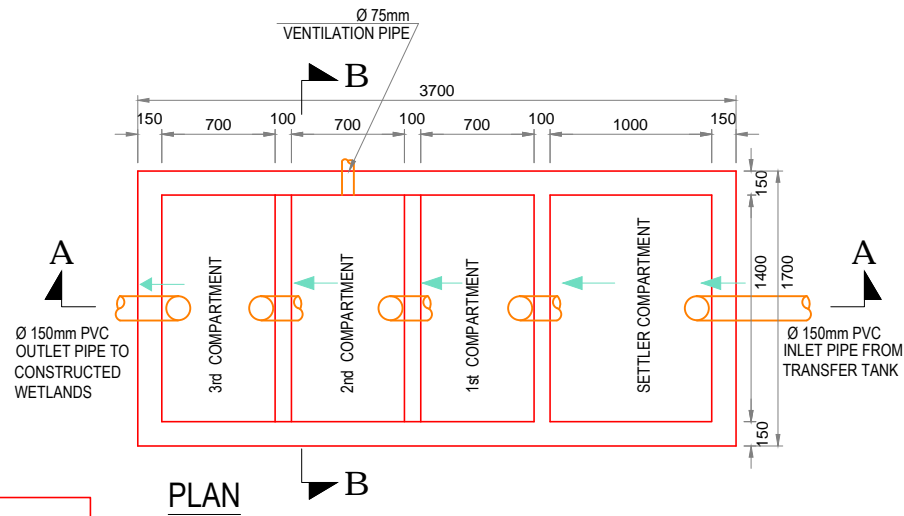
**PLAN**



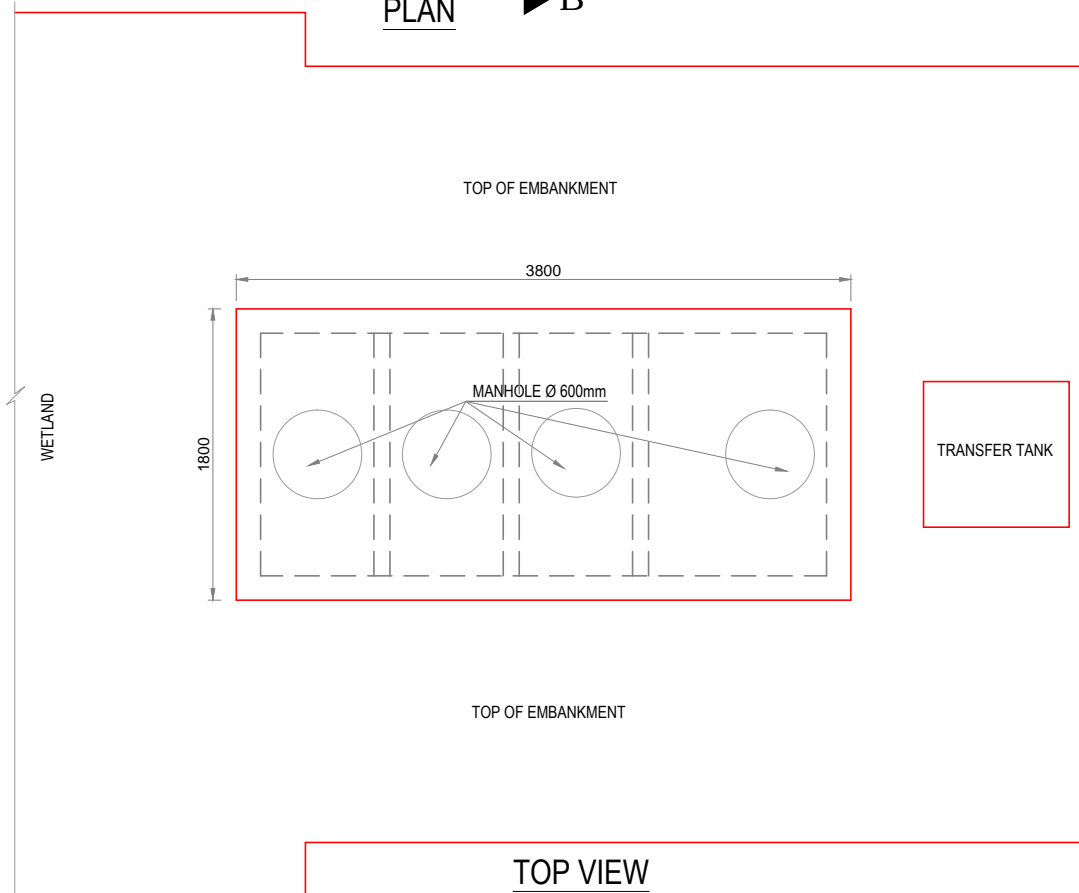
**SECTION AA**

**TRANSFER TANK**

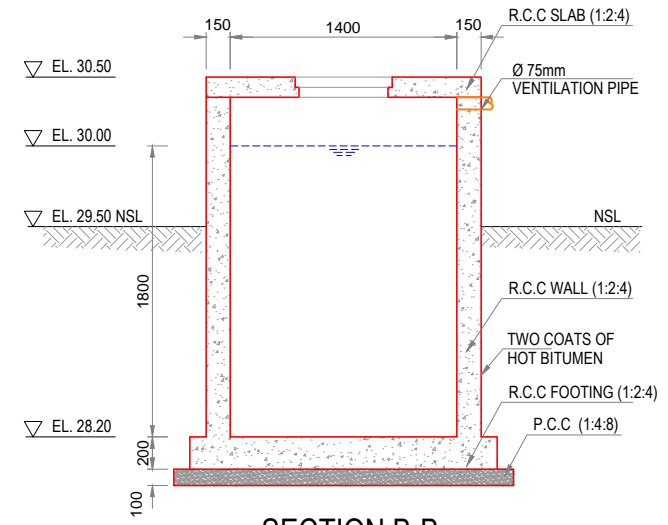
 <b>CLIENT:</b> WATERAID PAKISTAN	<b>CONSULTANTS:</b> EMINENCE ONE CONSULTANTS 111-G PHASE I DHA Lahore Tel : (92-42) 35743050 E-mail : spcc_04@yahoo.com	<b>PROJECT:</b> DETAILED DESIGN OF RAINWATER HARVESTING UNDER GROUND RECHARGE AND WASTEWATER TREATMENT SYSTEM UNDER ZLD(ZERO LIQUID DISCHARGE) OF RHC CHAK 53M LODHARAN	<b>NOTES:</b> 	<b>DRAWN BY:</b> M YASIN	<b>DRAWING TITLE:</b> TRANSFER TANK DETAIL (ZLD) RURAL HEALTH CENTER 53 M	<b>DRAWING NO:</b> RHC-LD-S-02	
				<b>CHECKED BY:</b> SALMAN AKHTAR		<b>SCALE:</b> N.T.S	<b>SHEET:</b> 1 OF 1
<b>REVISIONS</b>			<b>DATE:</b> MAR. 2024				



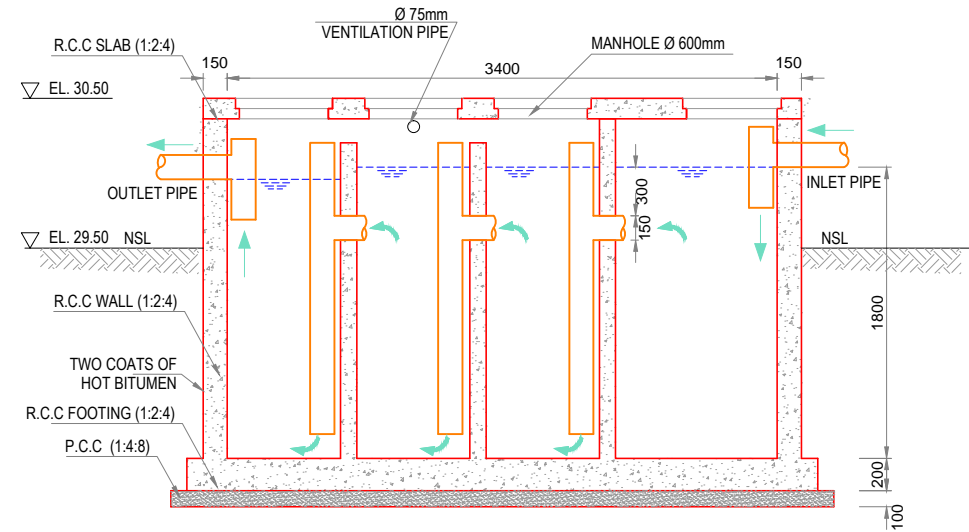
PLAN



TOP VIEW



SECTION B-B



SECTION A-A



WATERAID PAKISTAN

CONSULTANTS:  
EMINENCE ONE CONSULTANTS  
111-G PHASE I DHA Lahore  
Tel : (92-42) 35743050  
E-mail : spcc\_04@yahoo.com

PROJECT:  
DETAILED DESIGN OF RAINWATER HARVESTING  
UNDER GROUND RECHARGE AND WASTEWATER TREATMENT SYSTEM  
UNDER ZLD(ZERO LIQUID DISCHARGE) OF  
RHC CHAK 53M LODHARAN

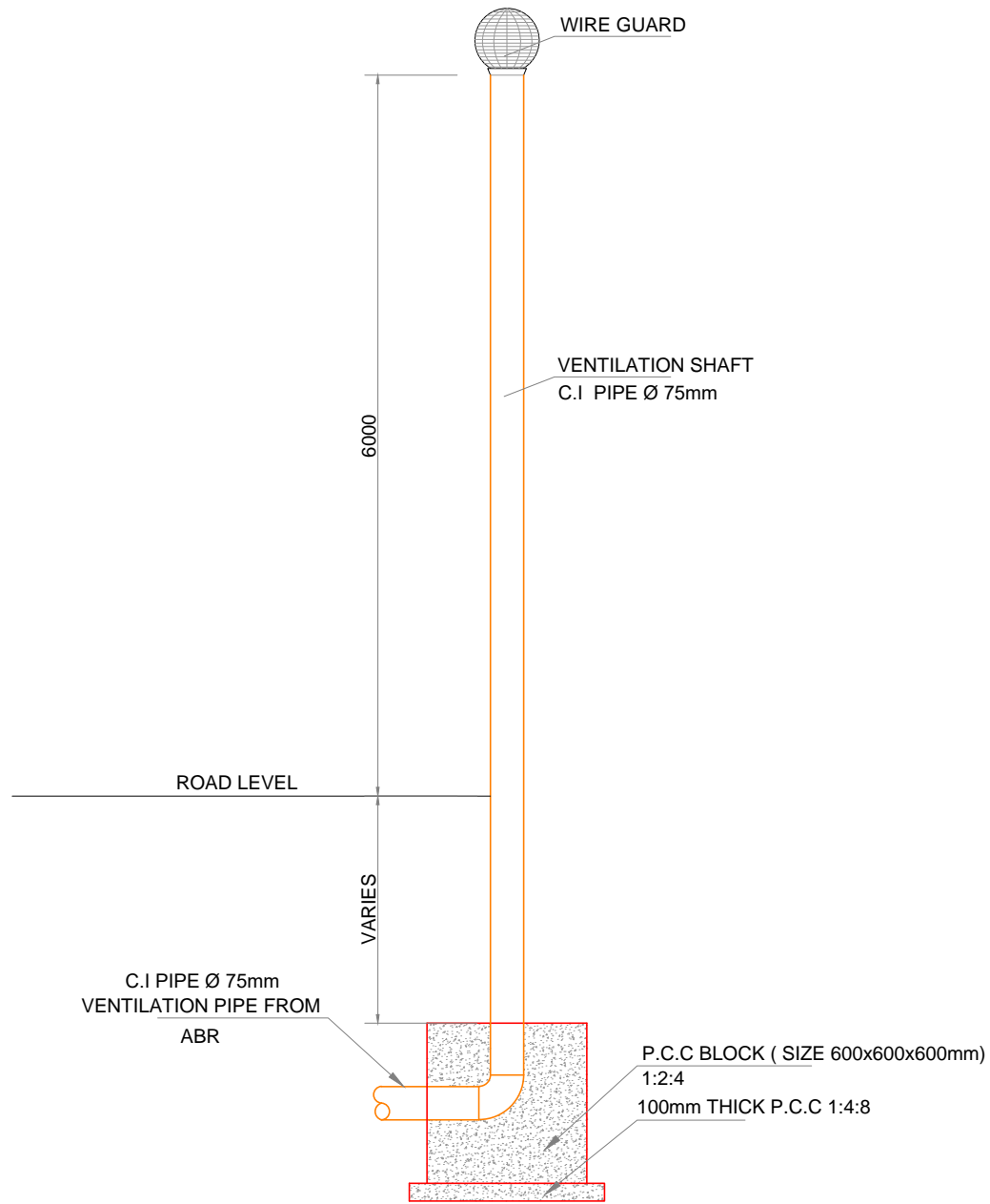
REVISIONS

NOTES:


DRAWN BY:  
M YASIN  
CHECKED BY:  
SALMAN AKHTAR  
DATE:  
MAR. 2024

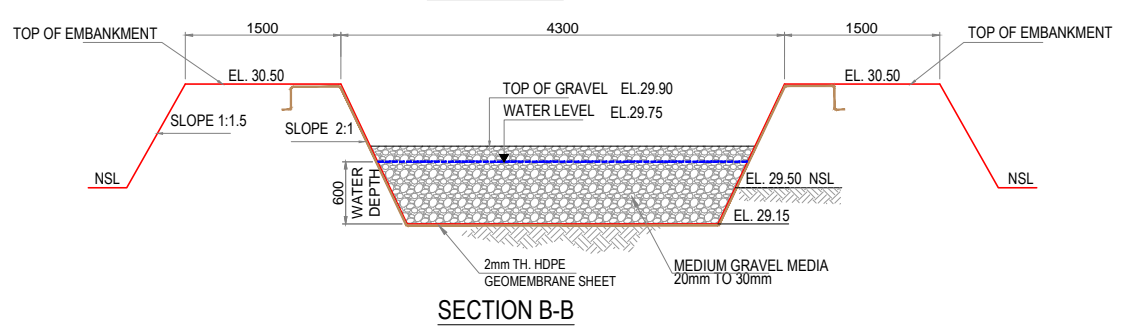
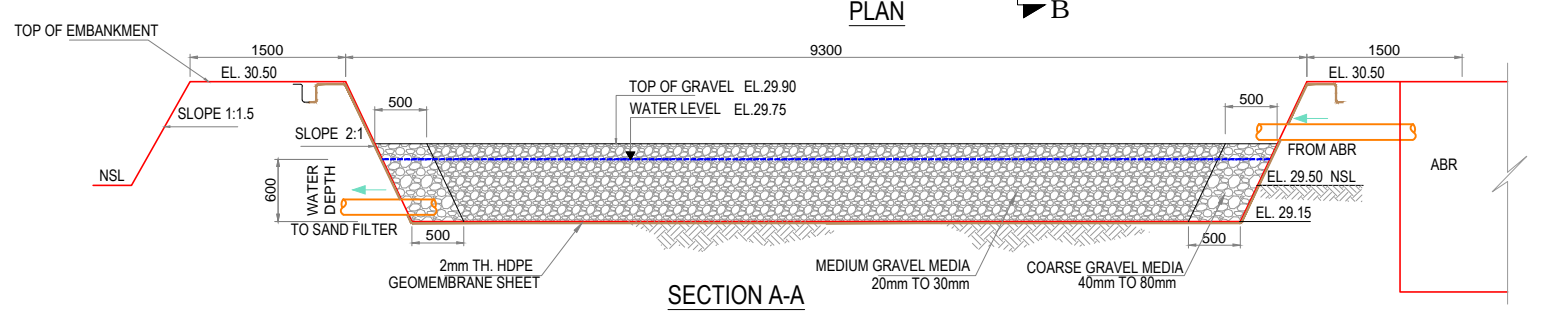
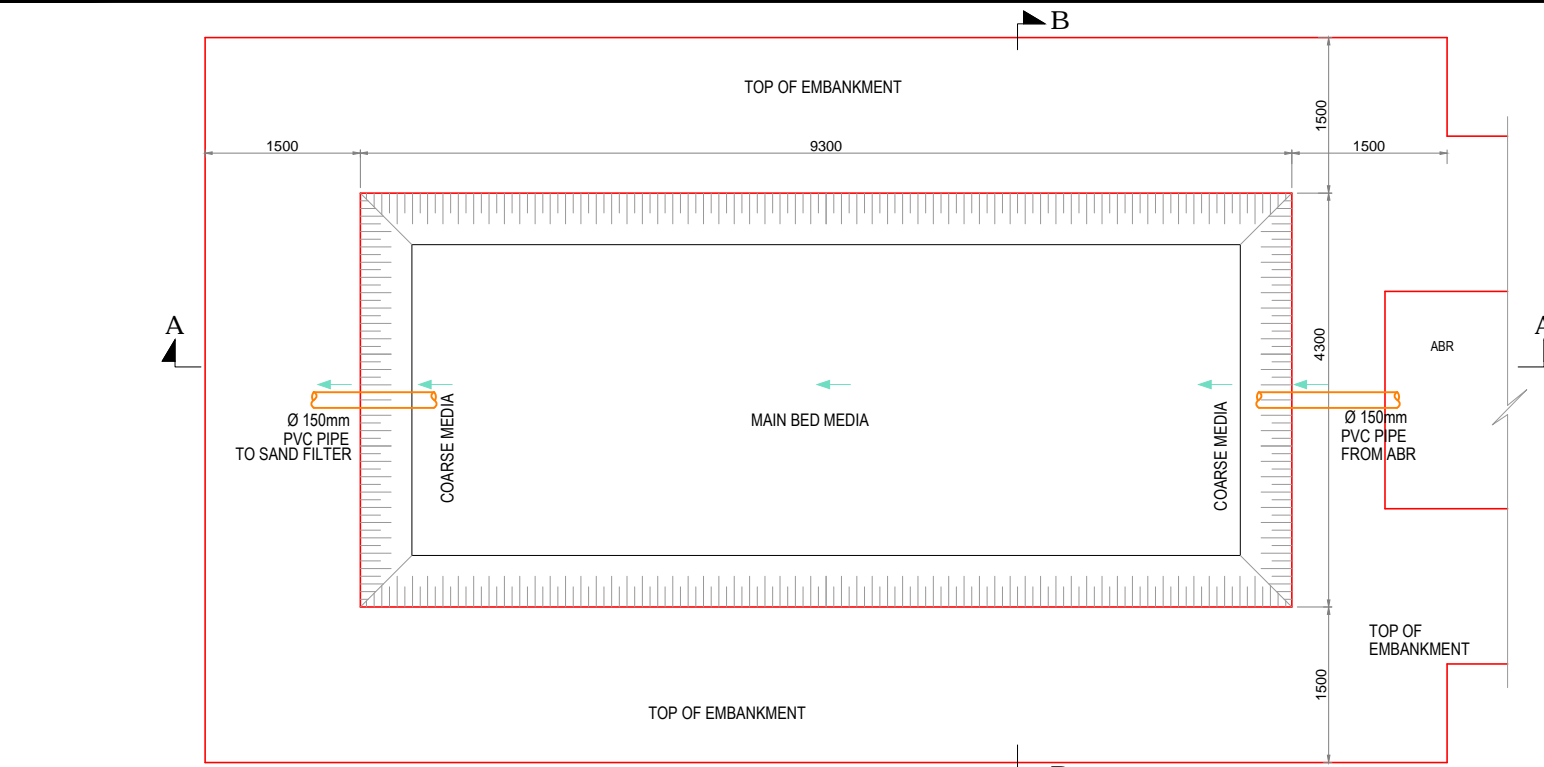
DRAWING TITLE:  
ANAEROBIC BAFFLED REACTOR  
(ABR)  
RURAL HEALTH CENTER 53 M


DRAWING NO:  
RHC-LD-S-03  
SCALE:  
N.T.S  
SHEET:  
1 OF 1

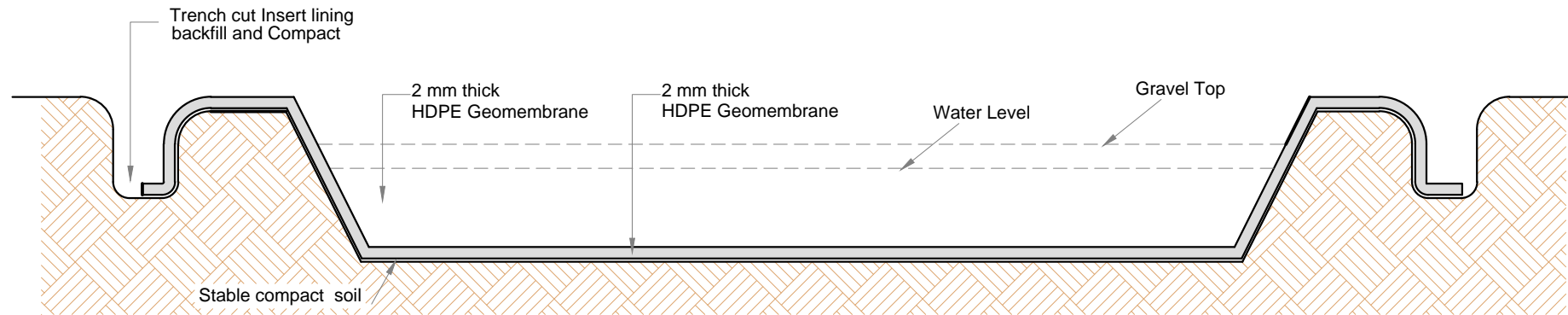
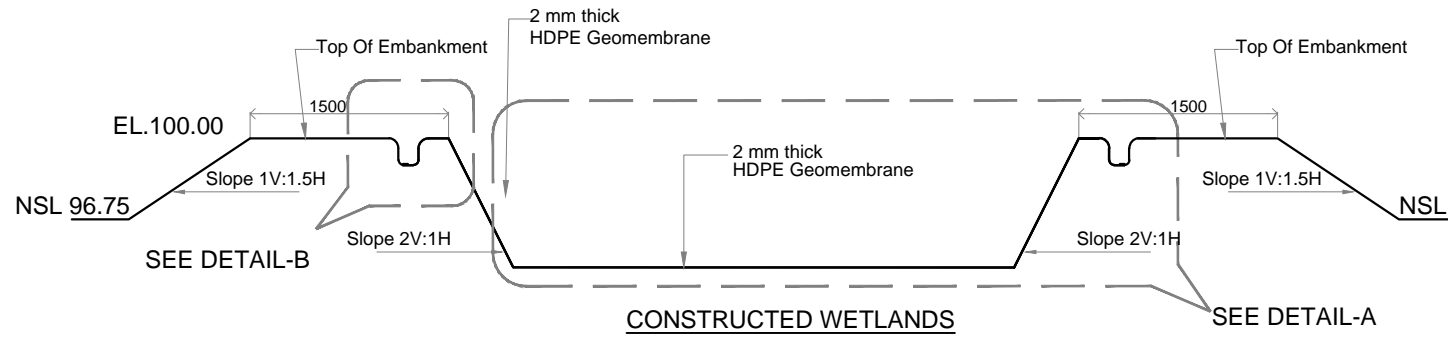


**VENTILATION SHAFT FROM ABR**

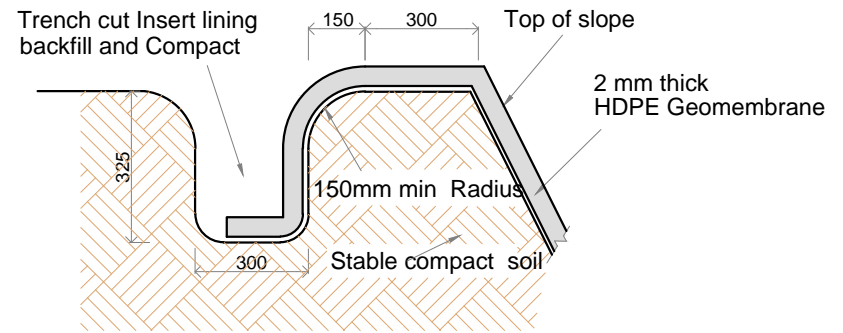
<b>CLIENT:</b>  <b>WATERAID PAKISTAN</b>	<b>CONSULTANTS:</b> EMINENCE ONE CONSULTANTS 111-G PHASE I DHA Lahore	<b>PROJECT:</b> DETAILED DESIGN OF RAINWATER HARVESTING UNDER GROUND RECHARGE AND WASTEWATER TREATMENT SYSTEM UNDER ZLD(ZERO LIQUID DISCHARGE) OF RHC CHAK 53M LODHARAN	<b>NOTES:</b>  	<b>DRAWN BY:</b> M YASIN	<b>DRAWING TITLE:</b> VENTILATION SHAFT DETAIL (ZLD) RURAL HEALTH CENTER 53 M	<b>DRAWING NO:</b> RHC-LD-S-04	
	Tel : (92-42) 35743050 E-mail : epec_04@yahoo.com			<b>CHECKED BY:</b> SALMAN AKHTAR		<b>DATE:</b> MAR. 2024	<b>SCALE:</b> N.T.S
			<b>REVISIONS</b>				




<b>CLIENT:</b>  <b>WATERAID PAKISTAN</b>	<b>CONSULTANTS:</b> EMINENCE ONE CONSULTANTS 111-G PHASE I DHA Lahore Tel : (92-42) 3574300/50 E-mail : epec_04@yahoo.com	<b>PROJECT:</b> DETAILED DESIGN OF RAINWATER HARVESTING UNDER GROUND RECHARGE AND WASTEWATER TREATMENT SYSTEM UNDER ZLD(ZERO LIQUID DISCHARGE) OF RHC CHAK 53M LODHARAN	<b>NOTES:</b>   	<b>DRAWN BY:</b> M YASIN	<b>DRAWING TITLE:</b> CONSTRUCTED WETLANDS PLAN & SECTION RURAL HEALTH CENTER 53 M	<b>DRAWING NO:</b> RHC-LD-S-05	
				<b>CHECKED BY:</b> SALMAN AKHTAR		<b>SCALE:</b> N.T.S	<b>SHEET:</b> 1 OF 1
<b>REVISIONS</b>			<b>DATE:</b> MAR 2024				

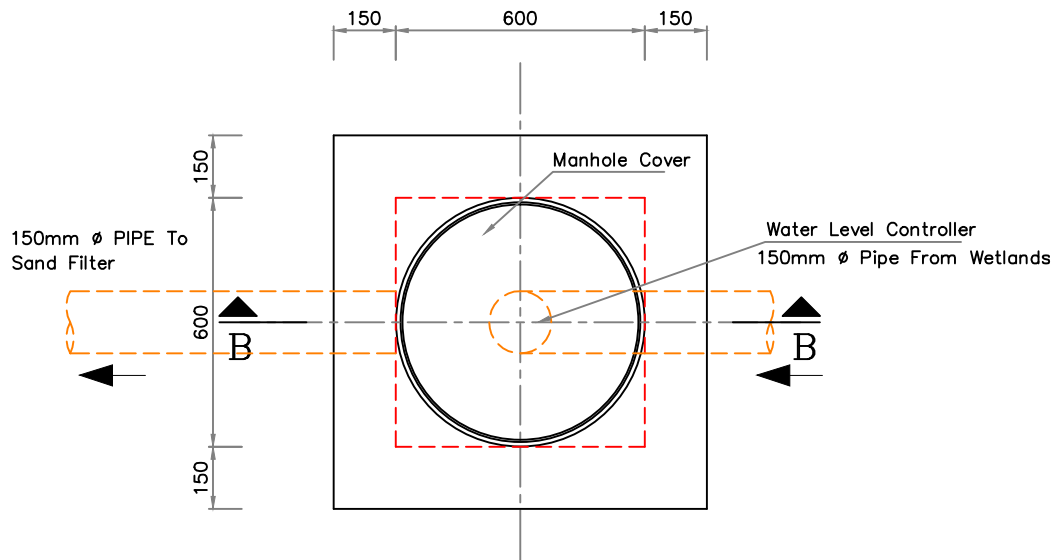


DETAIL-A

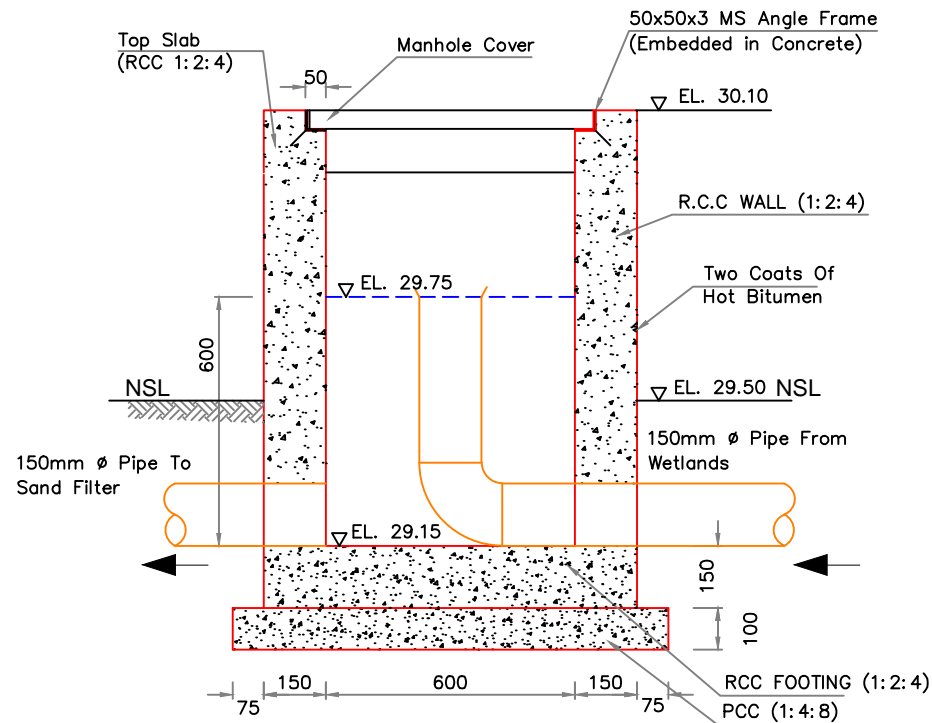


DETAIL-B

 <p>CLIENT: WATERAID PAKISTAN</p>	<p>CONSULTANTS: EMINENCE ONE CONSULTANTS 111-G PHASE I DHA Lahore</p>	<p>PROJECT: DETAILED DESIGN OF RAINWATER HARVESTING UNDER GROUND RECHARGE AND WASTEWATER TREATMENT SYSTEM UNDER ZLD(ZERO LIQUID DISCHARGE) OF RHC CHAK 53M LODHARAN</p>	<p>NOTES:</p>	<p>DRAWN BY: M YASIN</p>	<p>DRAWING TITLE: CONSTRUCTED WETLANDS HEPE GEOMEMBRANE DETAIL</p>	<p>DRAWING NO: RHC-LD-S-06</p>	
	<p>Tel : (92-42) 35743950 E-mail : spc_04@yahoocom</p>			<p>CHECKED BY: SALMAN AKHTAR</p>		<p>DATE: MAR. 2024</p>	<p>SCALE: N.T.S</p>
<p>REVISIONS</p>							



**PLAN**

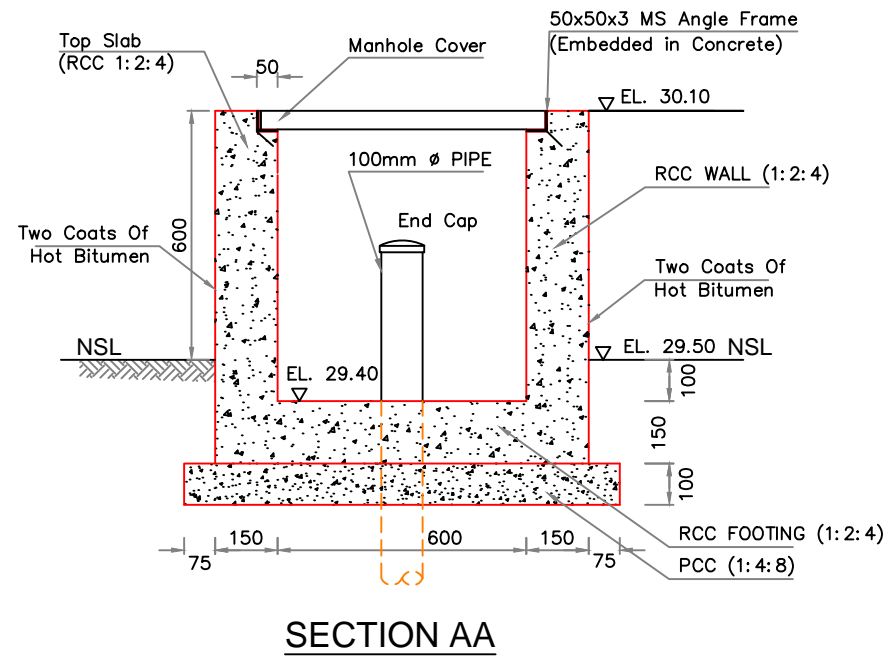
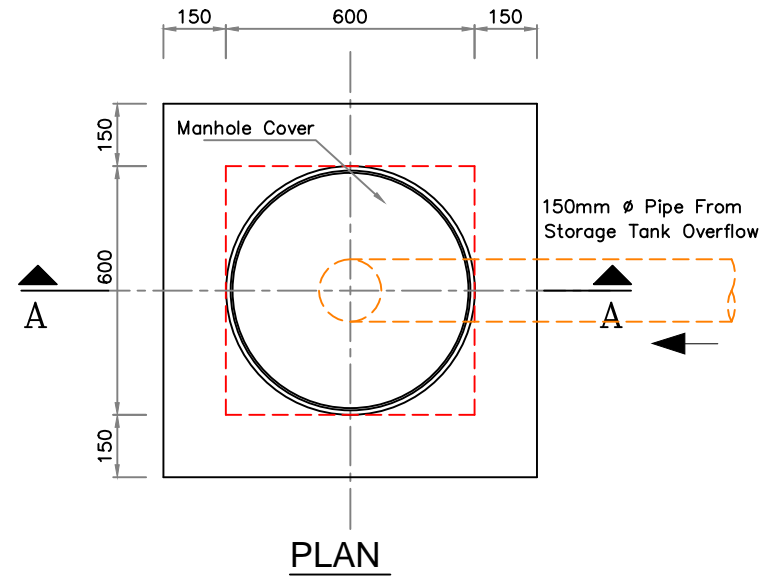
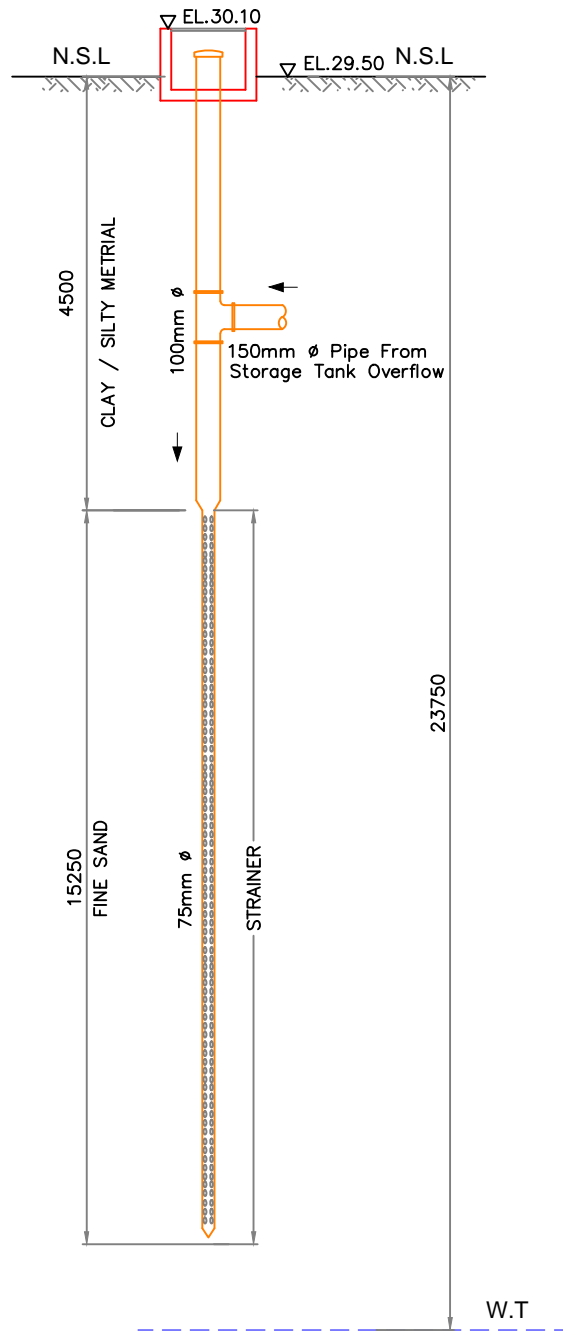


**SECTION BB**

**WATER LEVEL CONTROLLER**

	<b>CLIENT:</b> WATERAID PAKISTAN	<b>CONSULTANTS:</b> EMINENCE ONE CONSULTANTS 111-G PHASE I DHA Lahore Tel : (92-42) 35748050 E-mail : spcc_04@yahoo.com	<b>PROJECT:</b> DETAILED DESIGN OF RAINWATER HARVESTING UNDER GROUND RECHARGE AND WASTEWATER TREATMENT SYSTEM UNDER ZLD(ZERO LIQUID DISCHARGE) OF RHC CHAK 53M LODHARAN	<b>NOTES:</b>  	<b>DRAWN BY:</b> M YASIN <b>CHECKED BY:</b> SALMAN AKHTAR <b>DATE:</b> MAR. 2024	<b>DRAWING TITLE:</b> WATER LEVEL CONTROLLER (ZLD) RURAL HEALTH CENTER 53 M	<b>DRAWING NO:</b> RHC-LD-S-07 <b>SCALE:</b> N.T.S <b>SHEET:</b> 1 OF 1
	<b>REVISIONS</b>						





WATERAID PAKISTAN

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EMINENCE ONE CONSULTANTS  
111-G PHASE I DHA Lahore  
Tel : (92-42) 35740650  
E-mail : spcc\_04@yahoo.com

PROJECT:  
DETAILED DESIGN OF RAINWATER HARVESTING  
UNDER GROUND RECHARGE AND WASTEWATER TREATMENT SYSTEM  
UNDER ZLD(ZERO LIQUID DISCHARGE) OF  
RHC CHAK 53M LODHARAN

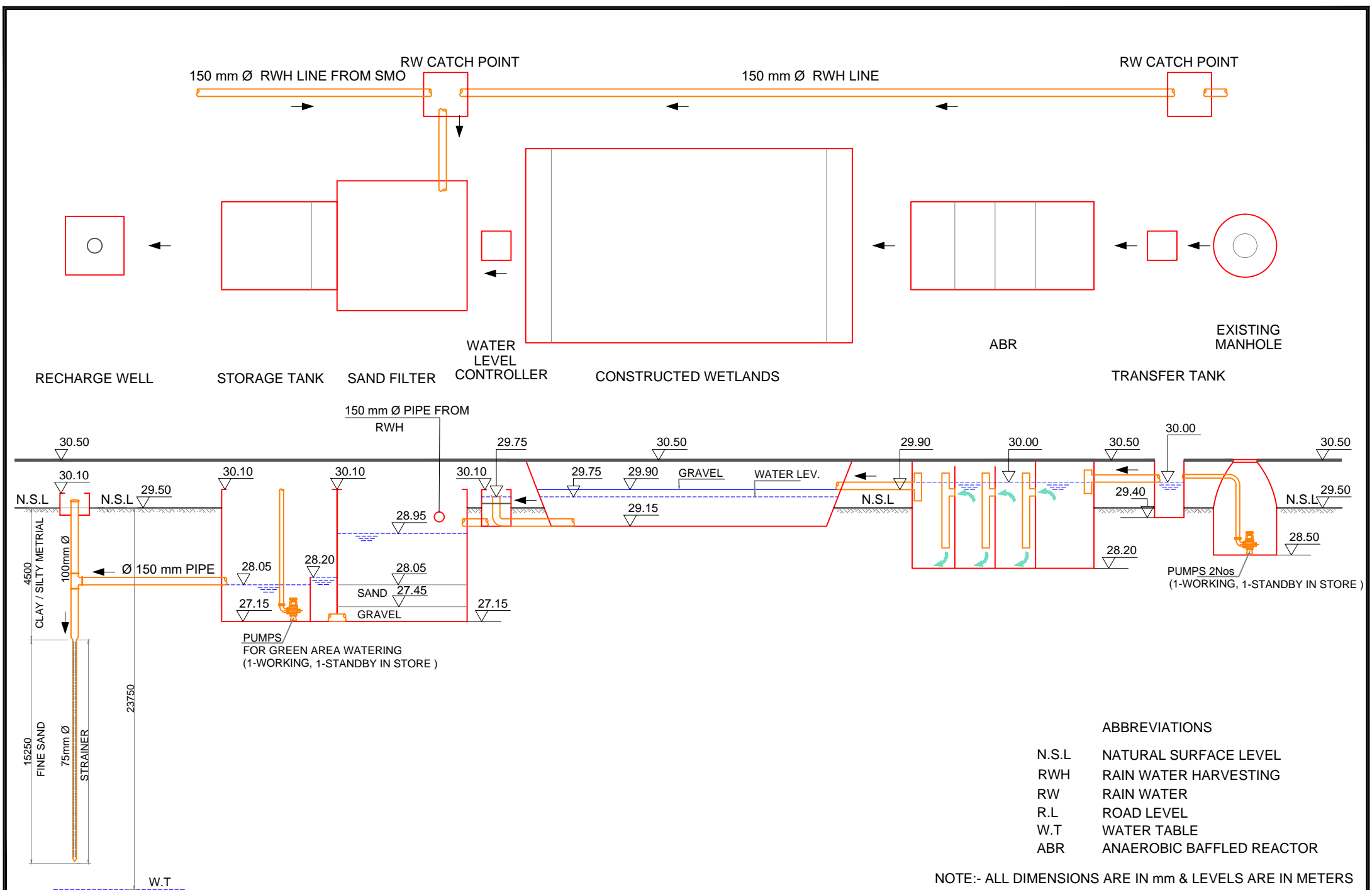
NOTES:

REVISIONS

DRAWN BY:  
M YASIN  
CHECKED BY:  
SALMAN AKHTAR  
DATE:  
MAR. 2024

DRAWING TITLE:  
RECHARGE WELL PIT DETAIL  
(ZLD)  
RURAL HEALTH CENTER 53 M

DRAWING NO:  
RHC-LD-S-09  
SCALE:  
N.T.S  
SHEET:  
1 OF 1

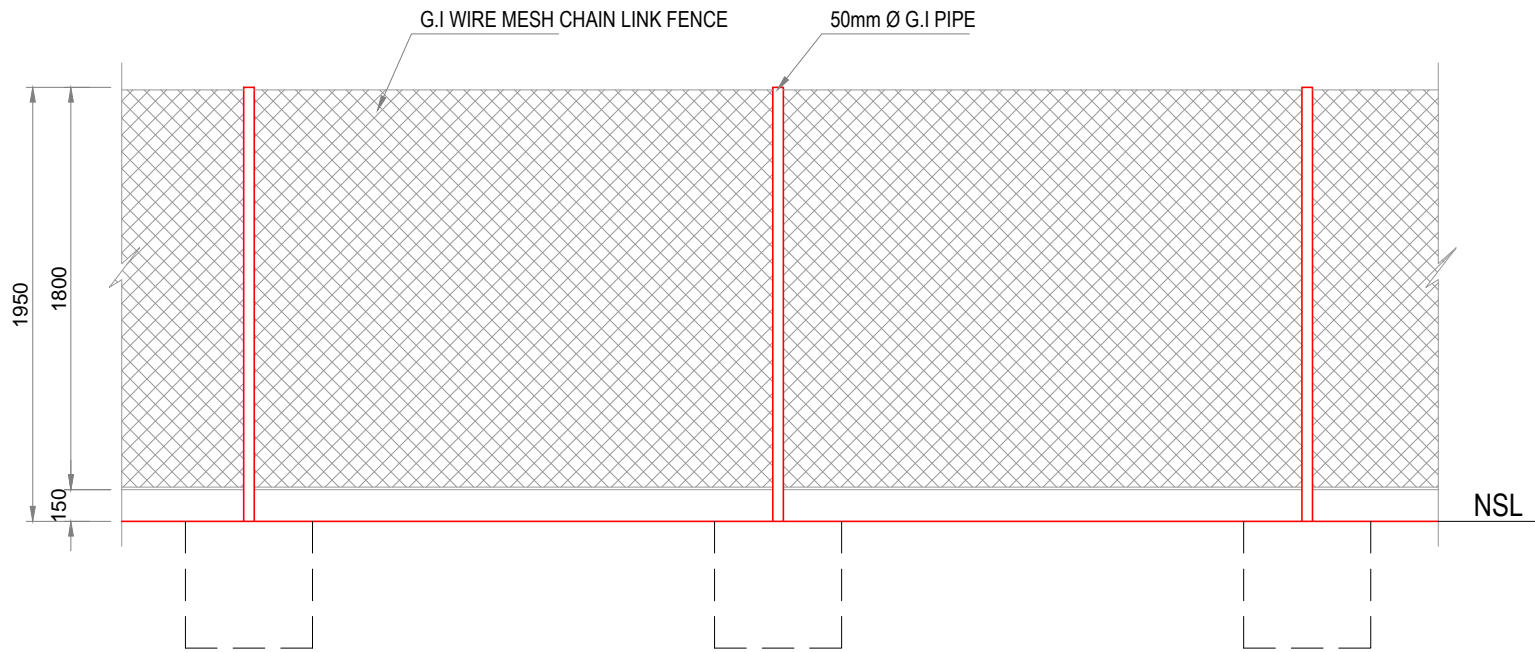


**ABBREVIATIONS**

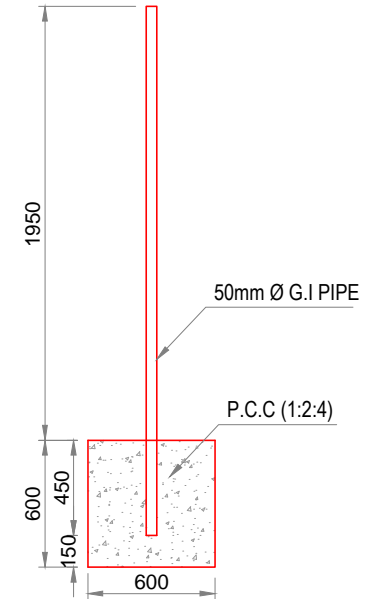
- N.S.L NATURAL SURFACE LEVEL
- RWH RAIN WATER HARVESTING
- RW RAIN WATER
- R.L ROAD LEVEL
- W.T WATER TABLE
- ABR ANAEROBIC BAFFLED REACTOR

**NOTE:- ALL DIMENSIONS ARE IN mm & LEVELS ARE IN METERS**

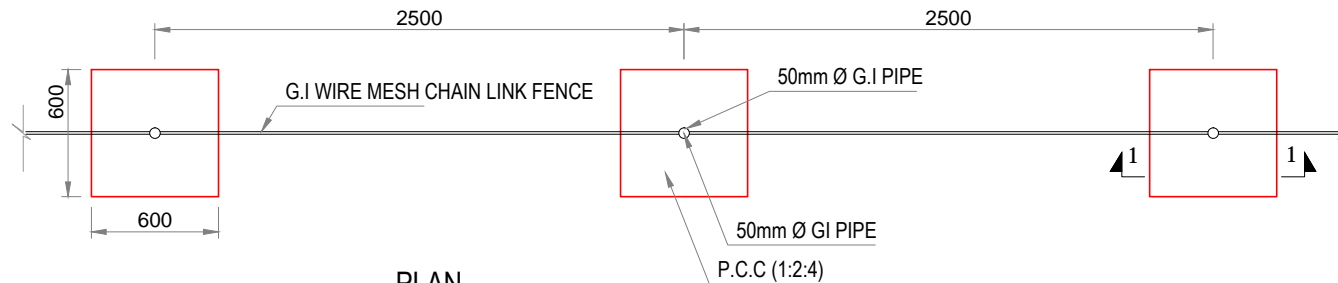
 <b>WATERAID PAKISTAN</b>	<b>CONSULTANTS:</b> EMINENCE ONE CONSULTANTS <small>111-G PHASE I DHA Lahore</small>	<b>PROJECT:</b> DETAILED DESIGN OF RAINWATER HARVESTING UNDER GROUND RECHARGE AND WASTEWATER TREATMENT SYSTEM UNDER ZLD(ZERO LIQUID DISCHARGE) OF RHC CHAK 53M LODHARAN	<b>NOTES:</b>  	<b>DRAWN BY:</b> M YASIN	<b>DRAWING TITLE:</b> PROCESS FLOW & HYDRAULIC PROFILE DIAGRAM (ZLD) RURAL HEALTH CENTER 53 M	<b>DRAWING NO:</b> RHC-LD-S-10	
	<b>CLIENT:</b>		<b>REVISIONS</b>	<b>CHECKED BY:</b> SALMAN AKHTAR		<b>DATE:</b> MAR. 2024	<b>SCALE:</b> N.T.S



ELEVATION A



SECTION 1-1



PLAN



CLIENT:  
WATERAID PAKISTAN

CONSULTANTS:  
EMINENCE ONE CONSULTANTS  
111-G PHASE I DHA Lahore  
Tel : (92-42) 35740050  
E-mail : spcc\_04@yahoo.com

PROJECT:  
DETAILED DESIGN OF RAINWATER HARVESTING  
UNDER GROUND RECHARGE AND WASTEWATER TREATMENT SYSTEM  
UNDER ZLD(ZERO LIQUID DISCHARGE) OF  
RHC CHAK 53M LODHARAN

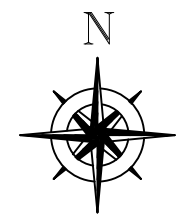
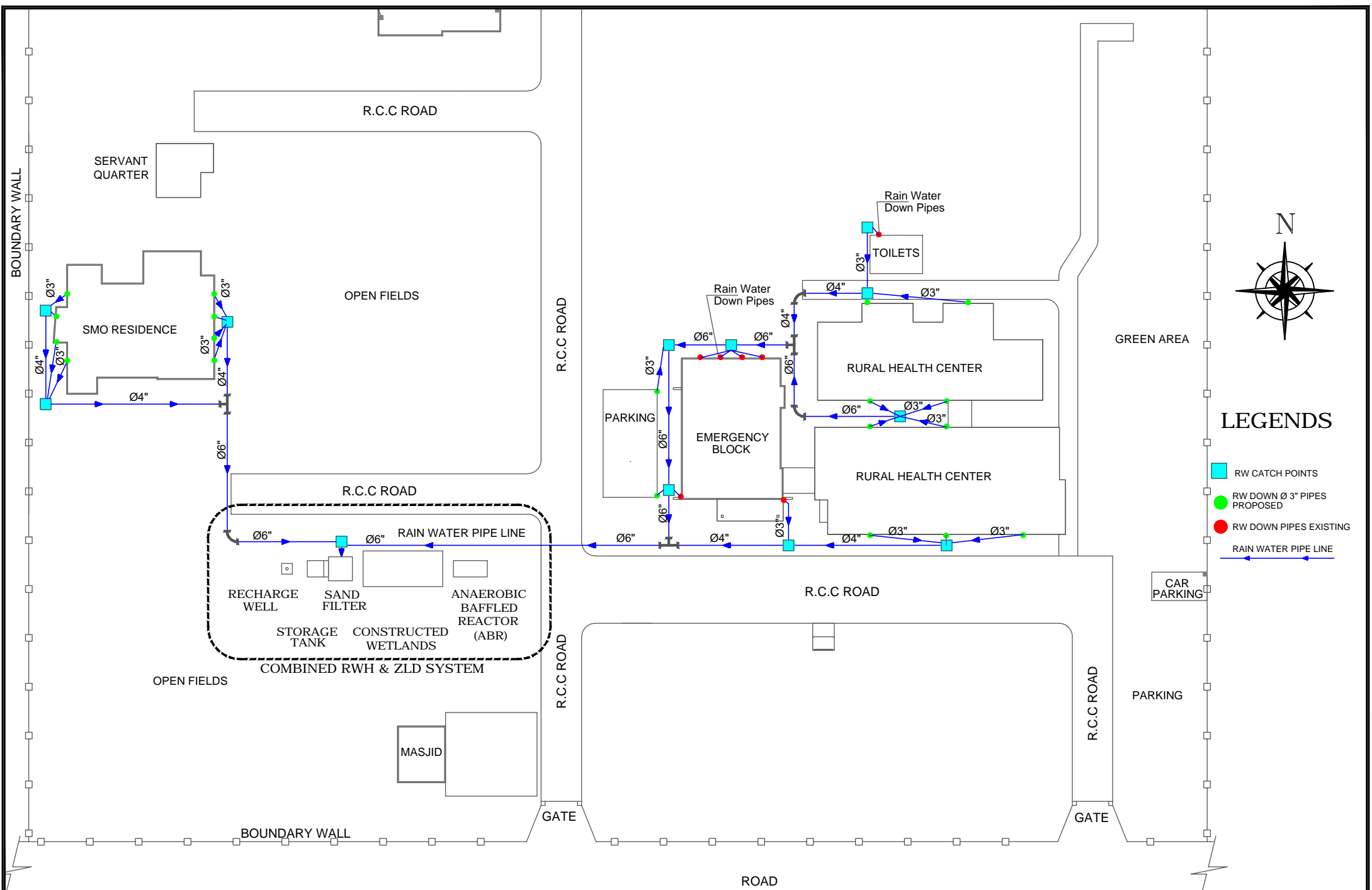
REVISIONS

NOTES:

DRAWN BY:  
M YASIN  
CHECKED BY:  
SALMAN AKHTAR  
DATE:  
MAR. 2024

DRAWING TITLE:  
FENCING DETAIL

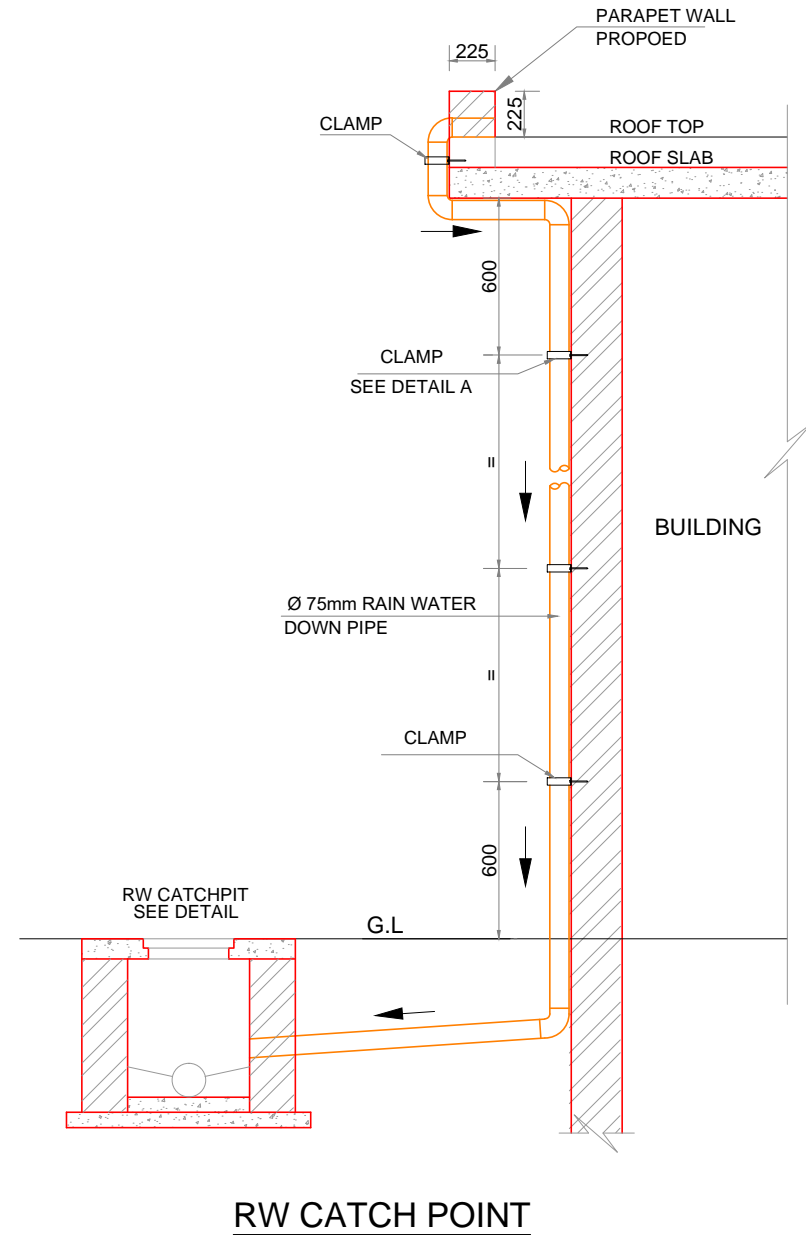
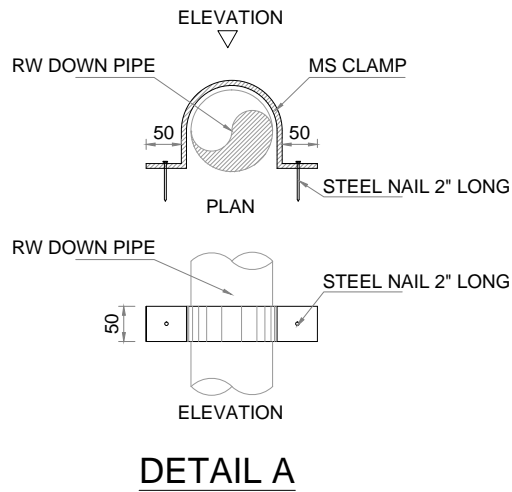
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RHC-LD-S-11  
SCALE:  
N.T.S  
SHEET:  
1 OF 1



**LEGENDS**

- RW CATCH POINTS
- RW DOWN Ø 3" PIPES PROPOSED
- RW DOWN PIPES EXISTING
- RAIN WATER PIPE LINE

 <b>CLIENT:</b> WATERAID PAKISTAN	<b>CONSULTANTS:</b> EMINENCE ONE CONSULTANTS <small>111-G PHASE I DHA Lahore</small> Tel : (92-42) 35743050 E-mail : epc_04@yahoo.com	<b>PROJECT:</b> DETAILED DESIGN OF RAINWATER HARVESTING UNDER GROUND RECHARGE AND WASTEWATER TREATMENT SYSTEM UNDER ZLD(ZERO LIQUID DISCHARGE) OF RHC CHAK 53M LODHARAN	<b>NOTES:</b>    <b>REVISIONS</b>	<b>DRAWN BY:</b> M YASIN	<b>DRAWING TITLE:</b> RAIN WATER COLLECTION PLAN FOR RAIN WATER HARVESTING RURAL HEALTH CENTER 53 M	<b>DRAWING NO:</b> RHC-LD-S-12	
				<b>CHECKED BY:</b> SALMAN AKHTAR		<b>DATE:</b> MAR. 2024	<b>SCALE:</b> N.T.S



CLIENT: WATERAID PAKISTAN

CONSULTANTS:  
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111-G PHASE I DHA Lahore  
Tel : (92-42) 35743950  
E-mail : epec\_04@yahoo.com

PROJECT:  
DETAILED DESIGN OF RAINWATER HARVESTING  
UNDER GROUND RECHARGE AND WASTEWATER TREATMENT SYSTEM  
UNDER ZLD(ZERO LIQUID DISCHARGE) OF  
RHC CHAK 53M LODHARAN

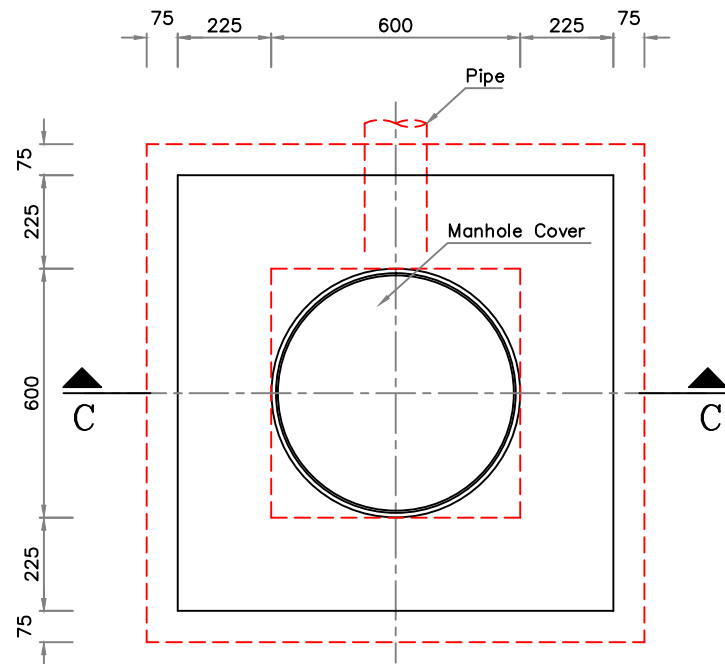
REVISIONS

NOTES:

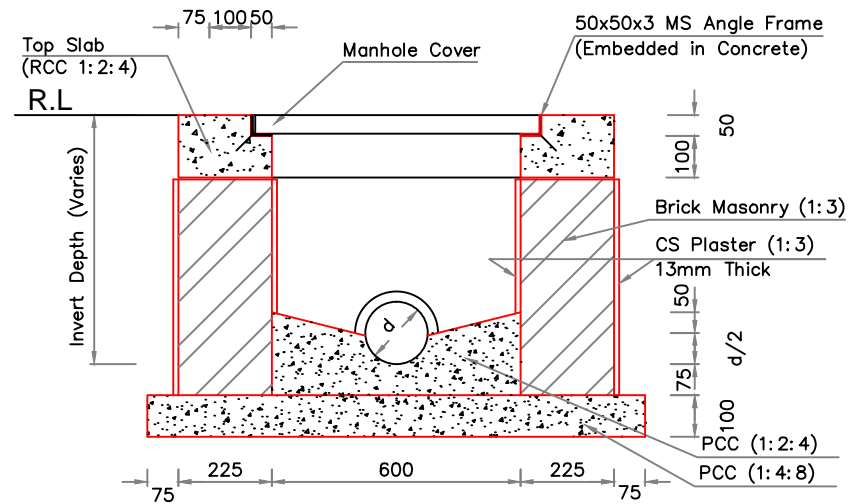
DRAWN BY:  
M YASIN  
CHECKED BY:  
SALMAN AKHTAR  
DATE:  
MAR. 2024

DRAWING TITLE:  
RAIN WATER DOWN PIPE DETAIL  
RURAL HEALTH CENTER 53 M

DRAWING NO:  
RHC-LD-S-13  
SCALE:  
N.T.S  
SHEET:  
1 OF 1



PLAN



SECTION CC

RAINWATER CATCHPIT  
TYPICAL DETAIL



CLIENT:  
WATERAID PAKISTAN

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111-G PHASE I DHA Lahore  
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E-mail : epc\_04@yahoo.com

PROJECT:  
DETAILED DESIGN OF RAINWATER HARVESTING  
UNDER GROUND RECHARGE AND WASTEWATER TREATMENT SYSTEM  
UNDER ZLD(ZERO LIQUID DISCHARGE) OF  
RHC CHAK 53M LODHARAN

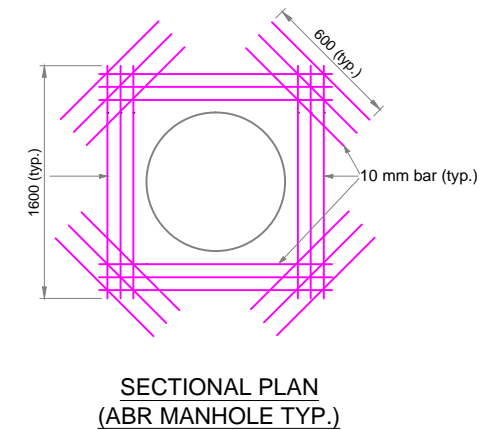
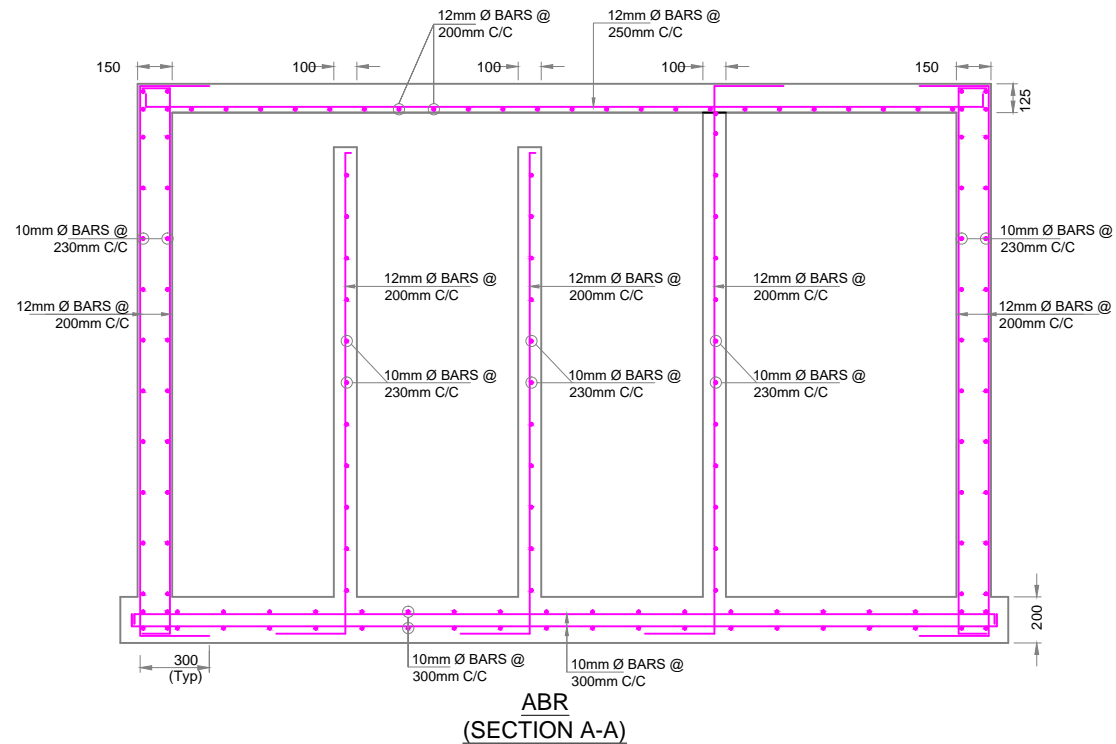
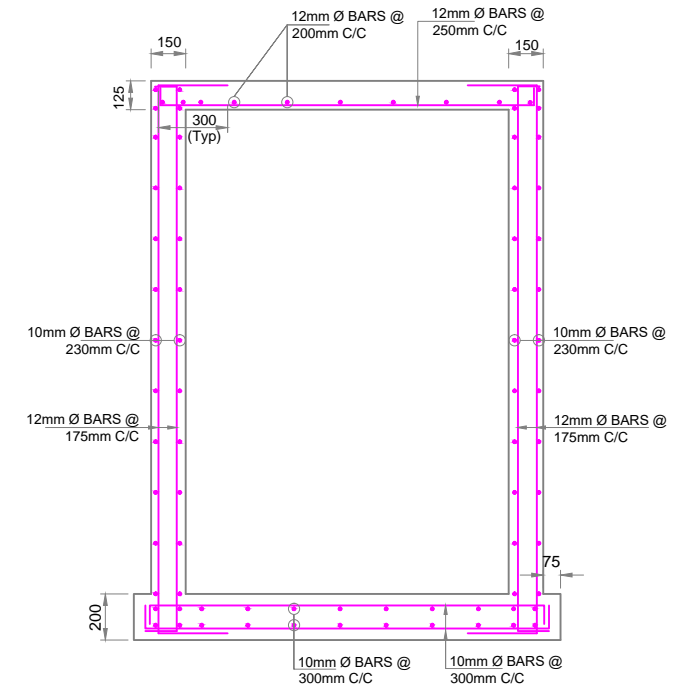
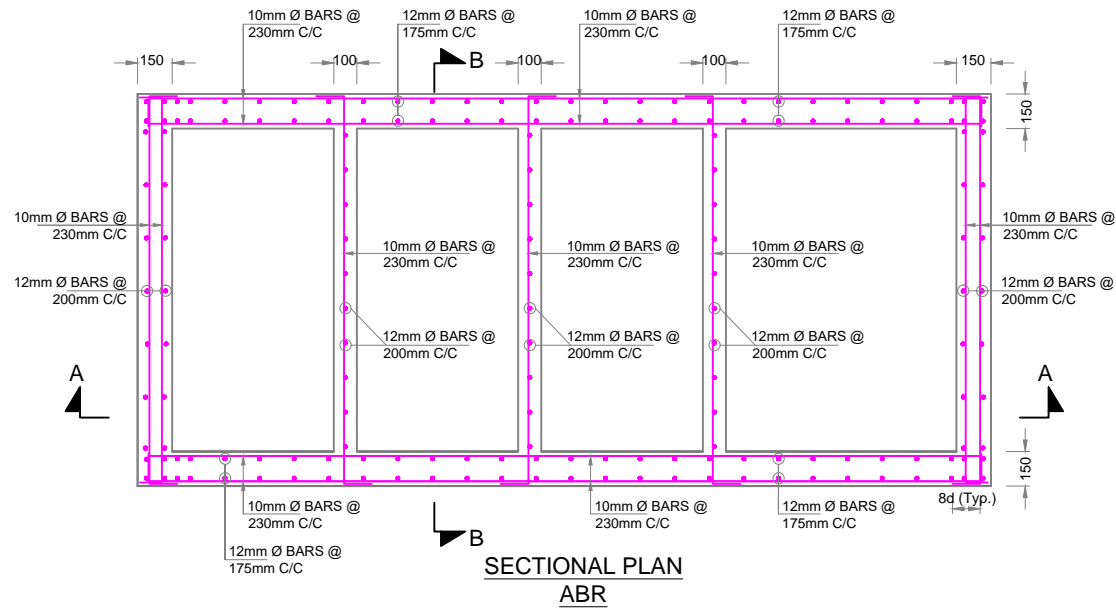
REVISIONS

NOTES:

DRAWN BY:  
M YASIN  
CHECKED BY:  
SALMAN AKHTAR  
DATE:  
MAR. 2024

DRAWING TITLE:  
RW CATCHPIT DETAIL (TYP.)  
RURAL HEALTH CENTER 53 M

DRAWING NO:  
RHC-LD-S-14  
SCALE:  
N.T.S  
SHEET:  
1 OF 1



WATERAID PAKISTAN

CONSULTANTS:  
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Tel : (92-42) 35743050  
E-mail : spcc\_04@yahoo.com

PROJECT:  
DETAILED DESIGN OF RAINWATER HARVESTING  
UNDER GROUND RECHARGE AND WASTEWATER TREATMENT SYSTEM  
UNDER ZLD(ZERO LIQUID DISCHARGE) OF  
RHC CHAK 53M LODHARAN

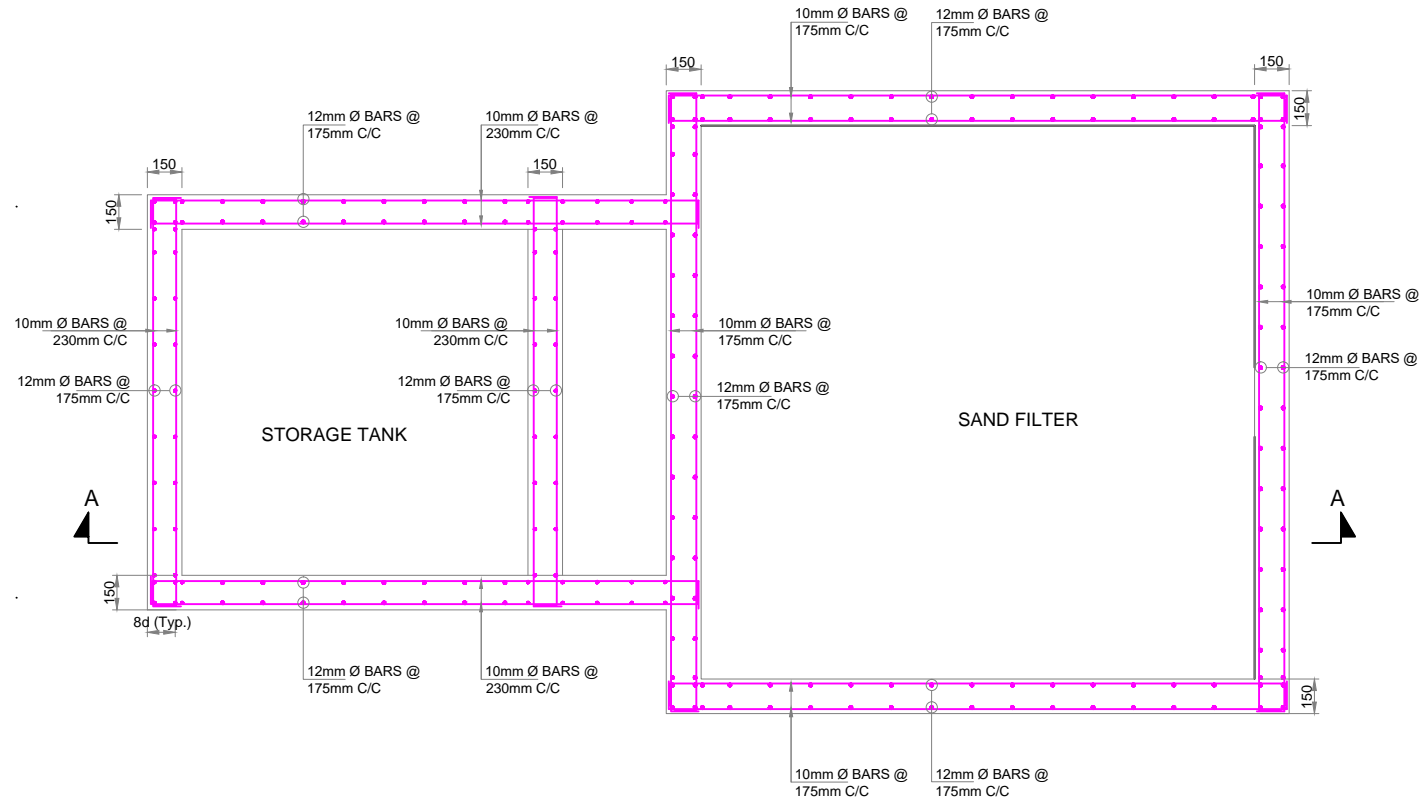
NOTES:

REVISIONS

DRAWN BY:  
M YASIN  
CHECKED BY:  
SALMAN AKHTAR  
DATE:  
MAR. 2024

DRAWING TITLE:  
STEEL DETAIL OF  
ANAEROBIC BAFFLED REACTOR  
(ABR)  
RURAL HEALTH CENTER 53 M

DRAWING NO:  
RHC-LD-S-15  
SCALE:  
N.T.S  
SHEET:  
1 OF 1



CLIENT:  
WATERAID PAKISTAN

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111-G PHASE I DHA Lahore  
Tel : (92-42) 35743050  
E-mail : spcc\_04@yahoo.com

PROJECT:  
DETAILED DESIGN OF RAINWATER HARVESTING  
UNDER GROUND RECHARGE AND WASTEWATER TREATMENT SYSTEM  
UNDER ZLD(ZERO LIQUID DISCHARGE) OF  
RHC CHAK 53M LODHARAN

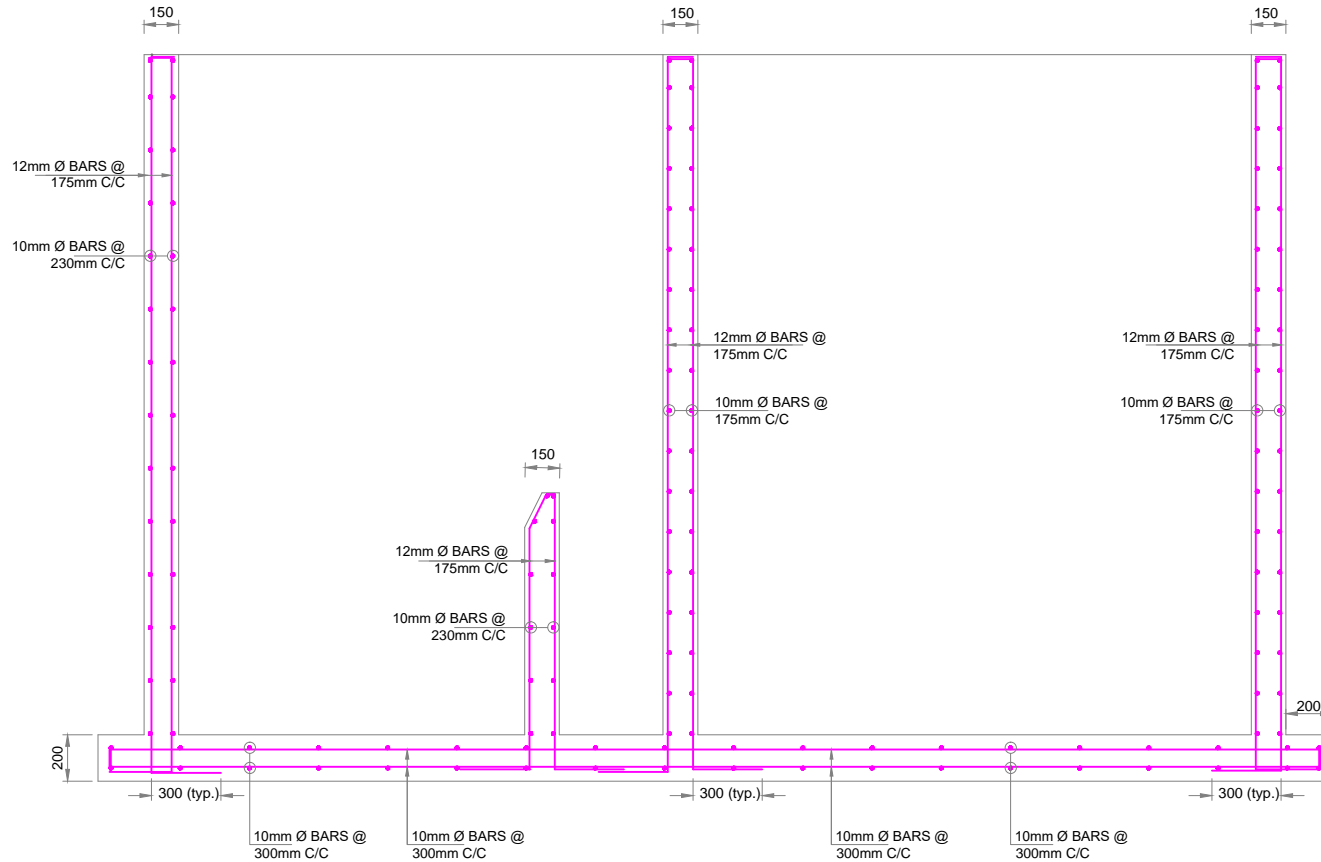
REVISIONS

NOTES:


DRAWN BY:  
M YASIN  
CHECKED BY:  
SALMAN AKHTAR  
DATE:  
MAR. 2024

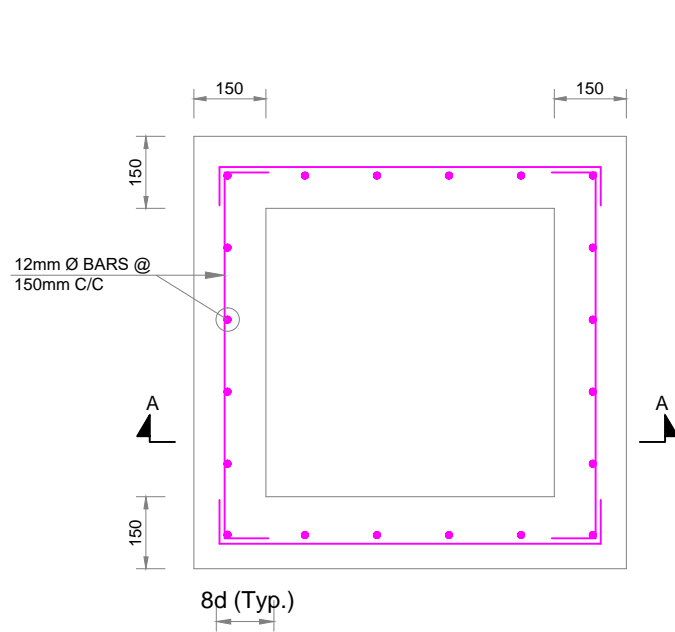
DRAWING TITLE:  
STEEL DETAIL OF  
SAND FILTER & STORAGE TANK  
UNDER DRAINAGE SYSTEM  
PLAN & SECTION

DRAWING NO:  
RHC-LD-S-16  
SCALE:  
N.T.S  
SHEET:  
1 OF 2

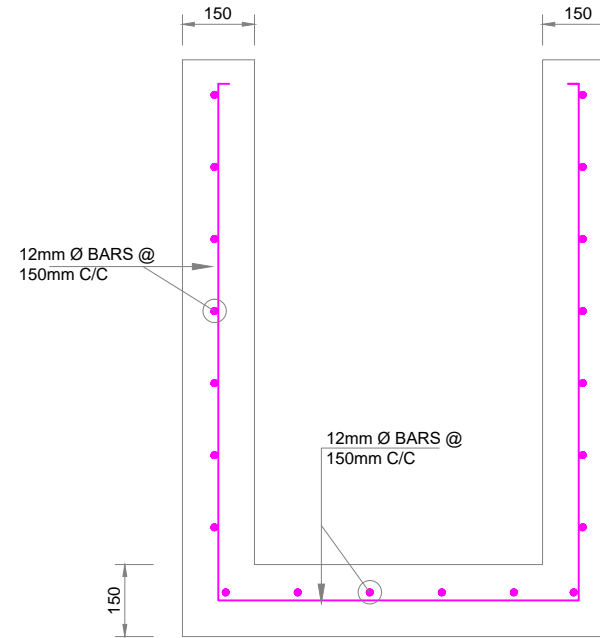


**SECTION A-A**  
**(SAND FILTER & STORAGE TANK)**

 <b>CLIENT:</b> WATERAID PAKISTAN	<b>CONSULTANTS:</b> EMINENCE ONE CONSULTANTS 111-G PHASE I DHA Lahore Tel : (92-42) 35743050 E-mail : epc_04@yahoo.com	<b>PROJECT:</b> DETAILED DESIGN OF RAINWATER HARVESTING UNDER GROUND RECHARGE AND WASTEWATER TREATMENT SYSTEM UNDER ZLD(ZERO LIQUID DISCHARGE) OF RHC CHAK 53M LODHARAN	<b>NOTES:</b>  <table border="1"> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table>					<b>DRAWN BY:</b> M YASIN	<b>DRAWING TITLE:</b> STEEL DETAIL OF SAND FILTER & STORAGE TANK UNDER DRAINAGE SYSTEM PLAN & SECTION	<b>DRAWING NO:</b> RHC-LD-S-17	
<b>CHECKED BY:</b> SALMAN AKHTAR	<b>SCALE:</b> N.T.S	<b>SHEET:</b> 2 OF 2									
<b>REVISIONS</b>			<b>DATE:</b> MAR. 2024								



SECTIONAL PLAN



SECTION AA



CLIENT:  
WATERAID PAKISTAN

CONSULTANTS:  
EMINENCE ONE CONSULTANTS  
111-G PHASE I DHA Lahore  
Tel : (92-42) 35743050  
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PROJECT:  
DETAILED DESIGN OF RAINWATER HARVESTING  
UNDER GROUND RECHARGE AND WASTEWATER TREATMENT SYSTEM  
UNDER ZLD(ZERO LIQUID DISCHARGE) OF  
RHC CHAK 53M LODHARAN

REVISIONS

NOTES:

DRAWN BY:  
M YASIN  
CHECKED BY:  
SALMAN AKHTAR  
DATE:  
MAR. 2024

DRAWING TITLE:  
TYPICAL STEEL DETAIL OF  
TRANSFER TANK, RECHARGE WELL &  
WATER LEVEL CONTROLLER  
PLAN & SECTION

DRAWING NO:  
RHC-LD-S-18  
SCALE:  
N.T.S  
SHEET:  
1 OF 1