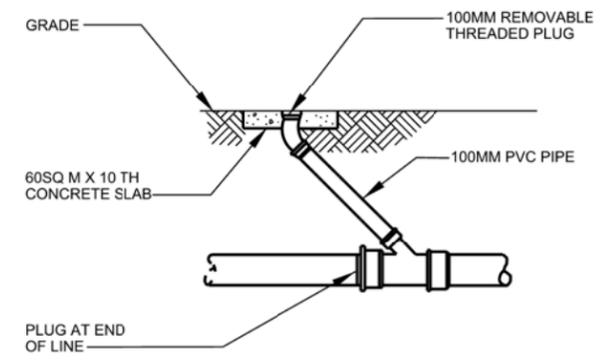
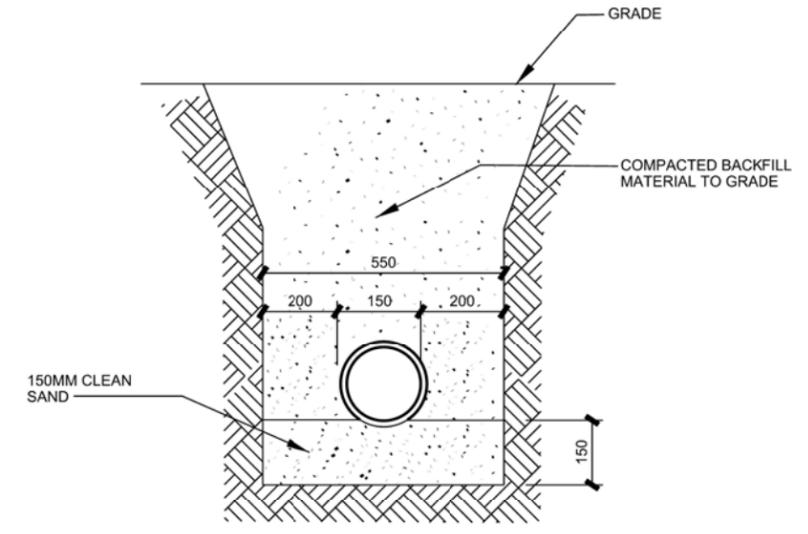


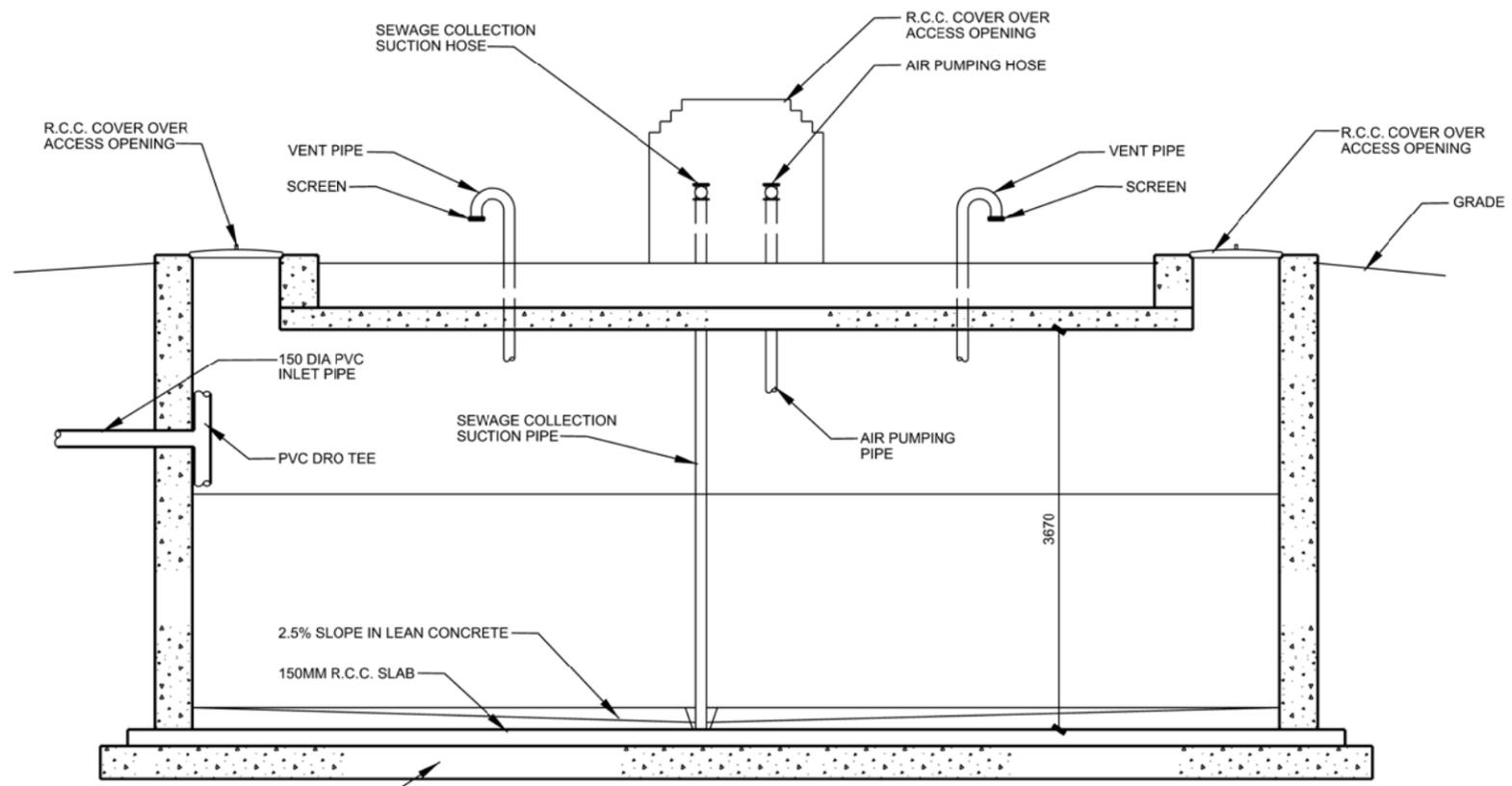
1 SEWAGE HOLDING TANK PLAN  
RLB-C-103 NTS



2 TYPICAL CLEANOUT DETAIL  
RLB-C-103 NTS



3 TYP. 150 DIA PIPE TRENCH  
RLB-C-103 NTS



A SEWAGE HOLDING TANK SECTION  
RLB-C-103 NTS

# CONCEPT DRAWINGS



DATE	DESCRIPTION	BY	APP'D

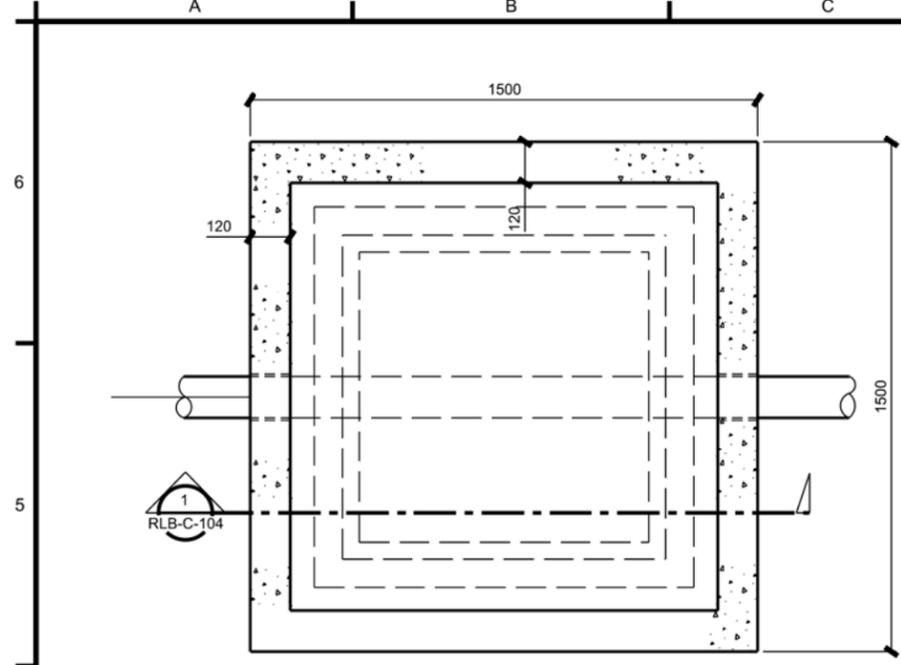
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CHECKED BY:	DRAWING CODE:	
REVIEWED BY:	FILE NAME:	
SUBMITTED BY:	PLOT SCALE:	
	PLOT DATE:	

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CORPS OF ENGINEERS  
APO AE 96338

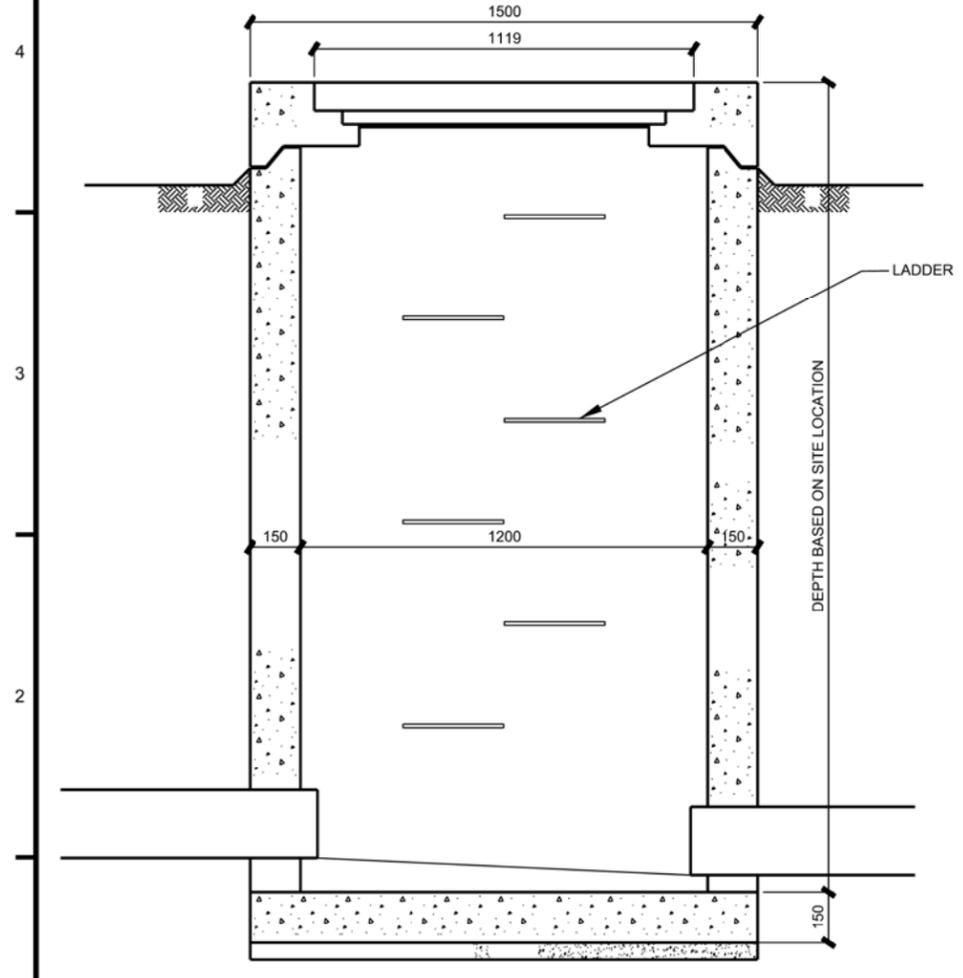
ENGINEERING AND  
CONSTRUCTION DIVISION

RLB HOUSING  
MULTIPLE SITES  
RLB BUILDING UNITS  
SEWAGE HOLDING TANK  
PLAN, SECTION AND DETAILS

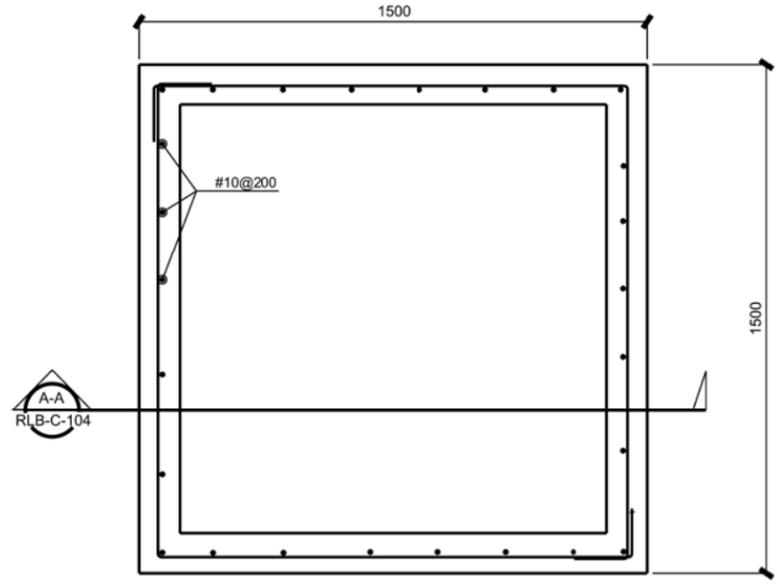
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REFERENCE  
NUMBER:  
RLB-C-103  
SHEET --- OF ---



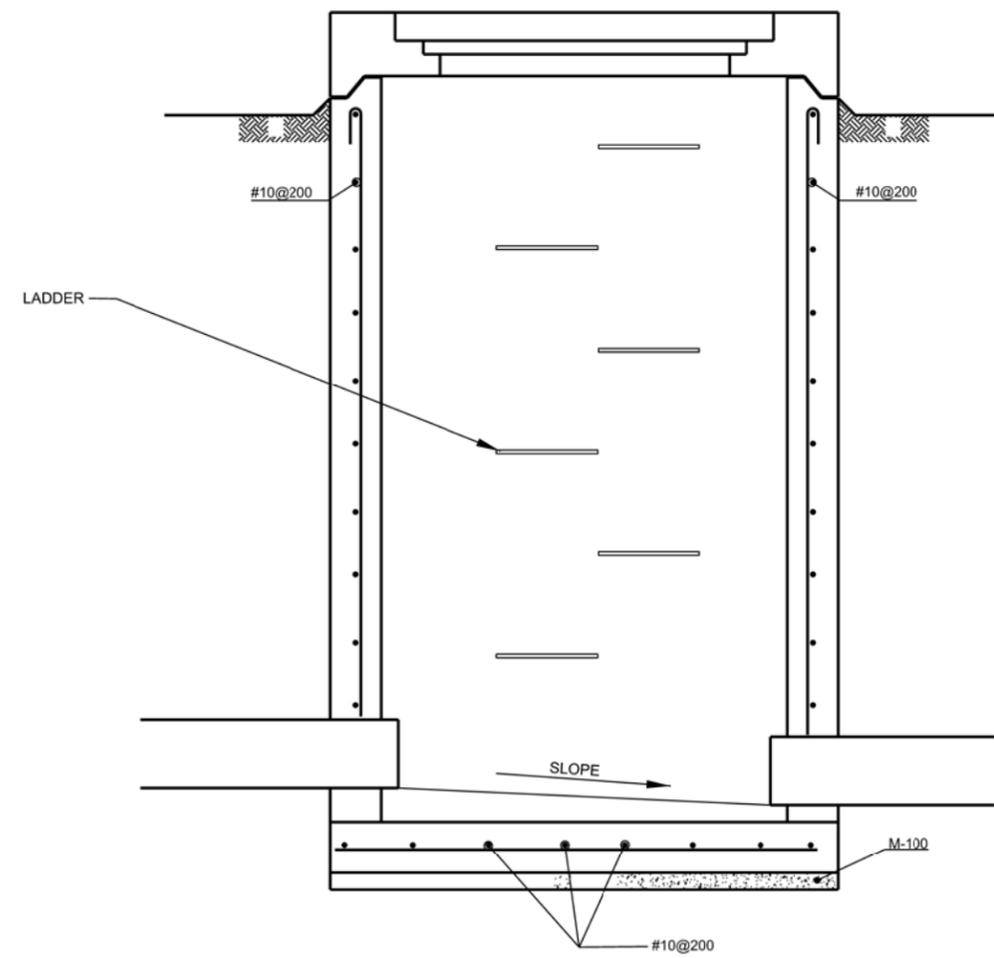
**A WASTEWATER MANHOLE PLAN**  
RLB-C-104 SCALE 1:30



**1 WASTEWATER MANHOLE SECTION**  
RLB-C-104 SCALE 1:30



**B WASTEWATER MANHOLE REINFORCING PLAN**  
RLB-C-104 SCALE 1:30



**CHAMBER REINFORCEMENT-SECTION A-A**  
SCALE

- NOTES:
- 1- PIPING INSULATION SHOULD BE PROVIDED FOR EXPOSED PIPING AND SUBSURFACE PIPING TO 800mm BELOW GRADE.
  - 4- BUILDING CONNECTION ELEVATION HAS REFERRED TO ADJACENT BUILDING.



DATE	APPROVED	DESCRIPTION

DESIGNED BY:	DATE:	REV:
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SUBMITTED BY:	FILE NAME:	
	PLOT SCALE:	
	PLOT DATE:	

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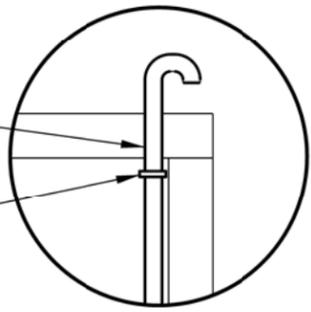
ENGINEERING AND  
CONSTRUCTION DIVISION

RLB HOUSING  
MULTIPLE SITES  
RLB BUILDING UNITS  
**WASTEWATER MANHOLE &  
REINFORCEMENT DETAILS**

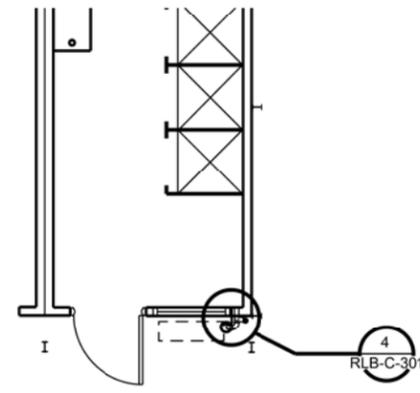
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NUMBER:  
**RLB-C-104**  
SHEET — OF —

# CONCEPT DRAWINGS

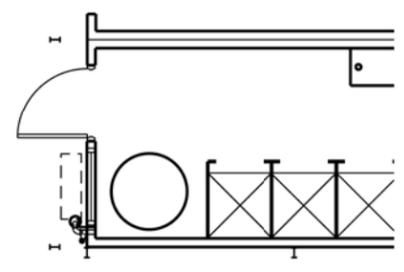
SANITARY SEWER VENT PIPE  
 SANITARY SEWER VENT PIPE STRAPS AS NEEDED TO SECURE PIPE TO RLB UNIT



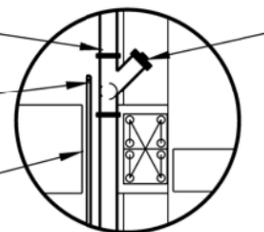
1 VENT PIPE SECTION  
 RLB-C-301 NTS



A RLB SANITARY SEWER LOCATION PLAN  
 RLB-C-301 NTS



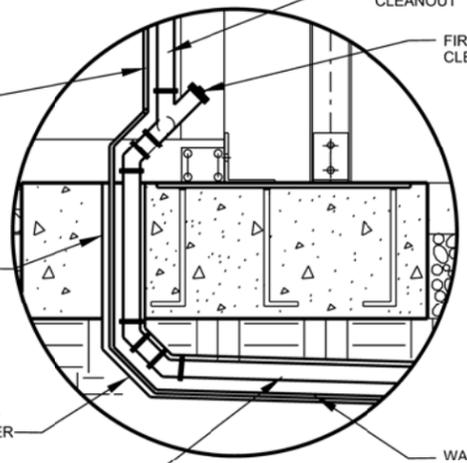
SANITARY SEWER VENT PIPE  
 WATER SUPPLY LINE FROM SECOND FLOOR TO FIRST FLOOR RLB  
 PROVIDE OPENING IN SECOND FLOOR DECKING FOR SEWER LINE



SECOND FLOOR SEWER CLEANOUT

2 SEWER & WATER CONNECTION @ SECOND FLOOR  
 RLB-C-301 NTS

WATER SUPPLY LINE FROM FIRST TO SECOND FLOOR RLB



FIRST SEWER CLEANOUT

FIRST SEWER CLEANOUT

150MM SLEEVE THROUGH CONCRETE FOOTER FOR SEWER AND WATER LINES

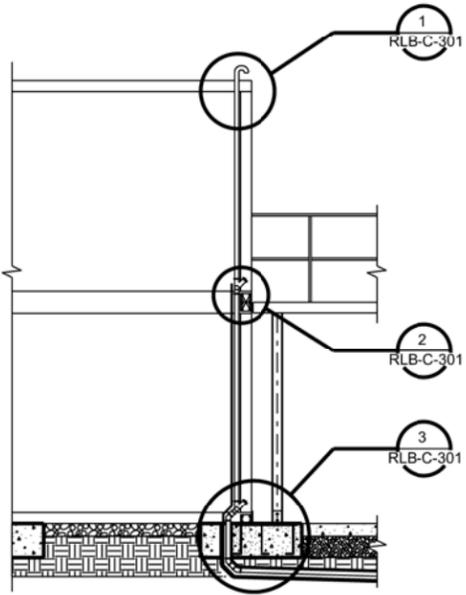
TWO 45° BENDS FOR SEWER AND WATER LINES ENCASED IN CONCRETE UNDER FOOTER

100MM SEWER LINE WITH MIN. SLOPED 2% TO MAIN

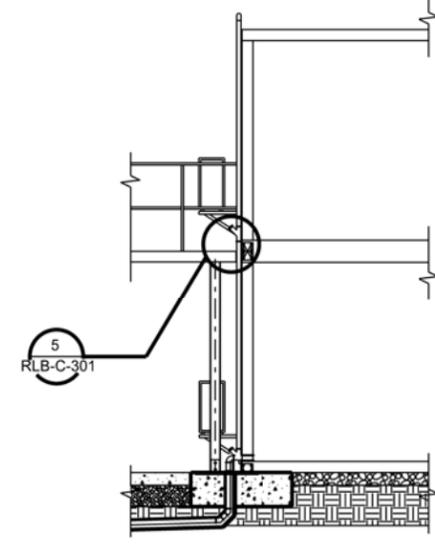
WATER LINE TO TYPICAL HAND HOLE WATER VALVE BOX

GENERAL NOTE:  
 1. ENSURE THE SEWER STUB IS ENCASED IN CONCRETE WHERE HORIZONTAL SEPARATION IS LESS THAN 3 METERS FROM WATER LINE

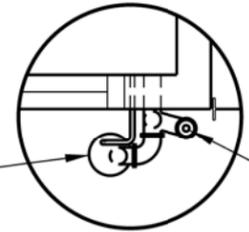
2 SEWER & WATER CONNECTION @ FIRST FLOOR  
 RLB-C-301 NTS



B RLB SANITARY SEWER LOCATION ELEVATIONS  
 RLB-C-301 NTS



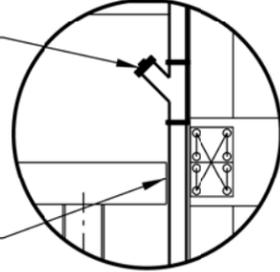
150MM SLEEVE THROUGH CONCRETE FOOTER FOR SEWER AND WATER LINES



4 PIPE THROUGH CONCRETE FOOTER  
 RLB-C-301 NTS

SECOND FLOOR SEWER CLEANOUT

PROVIDE OPENING IN SECOND FLOOR DECKING FOR SEWER LINE



5 PIPE THROUGH WALKWAY  
 RLB-C-301 NTS



U.S. ARMY CORPS OF ENGINEERS  
 AFGHANISTAN ENGINEER DISTRICT

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CHECKED BY: XXXXX	DRAWING CODE: XXXXX
REVIEWED BY: XXXXX	FILE NAME: XXXXX
SUBMITTED BY: XXXXX	PLOT NAME: XXXXX
	PLOT DATE: XXXXX

U.S. ARMY ENGINEER DISTRICT AFGHANISTAN  
 CORPS OF ENGINEERS  
 APO AE 96338  
 ENGINEERING AND CONSTRUCTION DIVISION

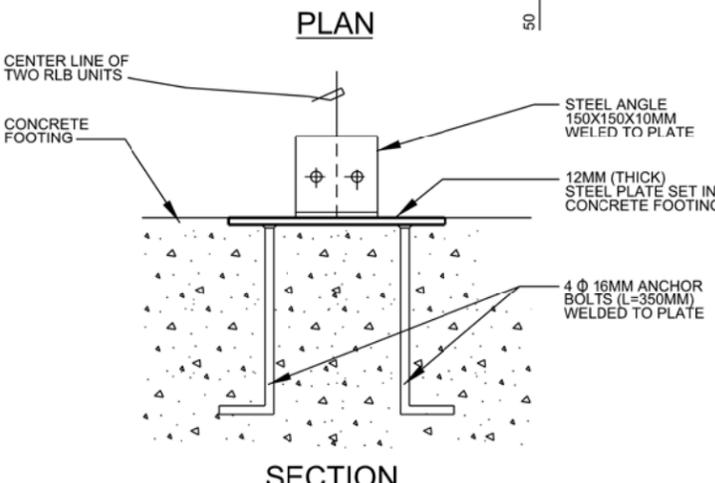
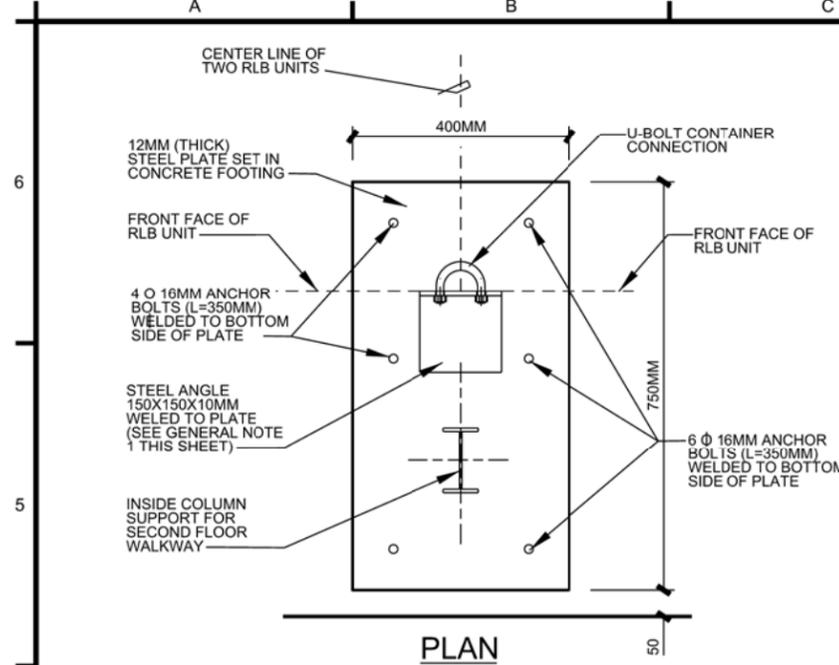
RLB HOUSING  
 MULTIPLE SITES  
 RLB BUILDING UNITS  
 SANITARY SEWER AND WATER  
 LINE PLANS AND DETAILS

SHEET REFERENCE NUMBER:  
 RLB-C-301  
 SHEET -- OF --

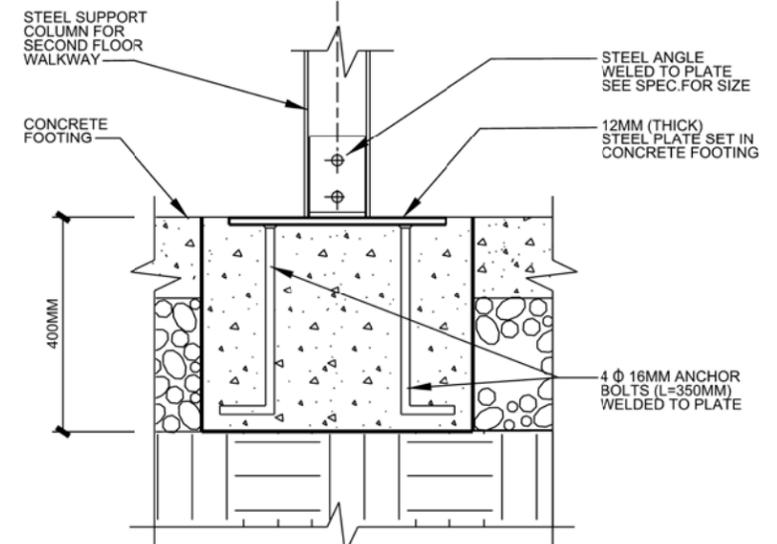
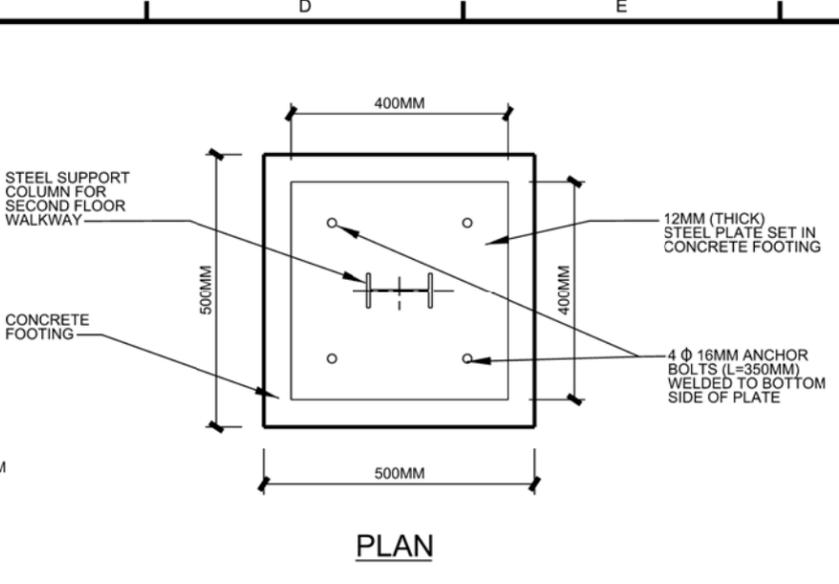
# CONCEPT DRAWINGS





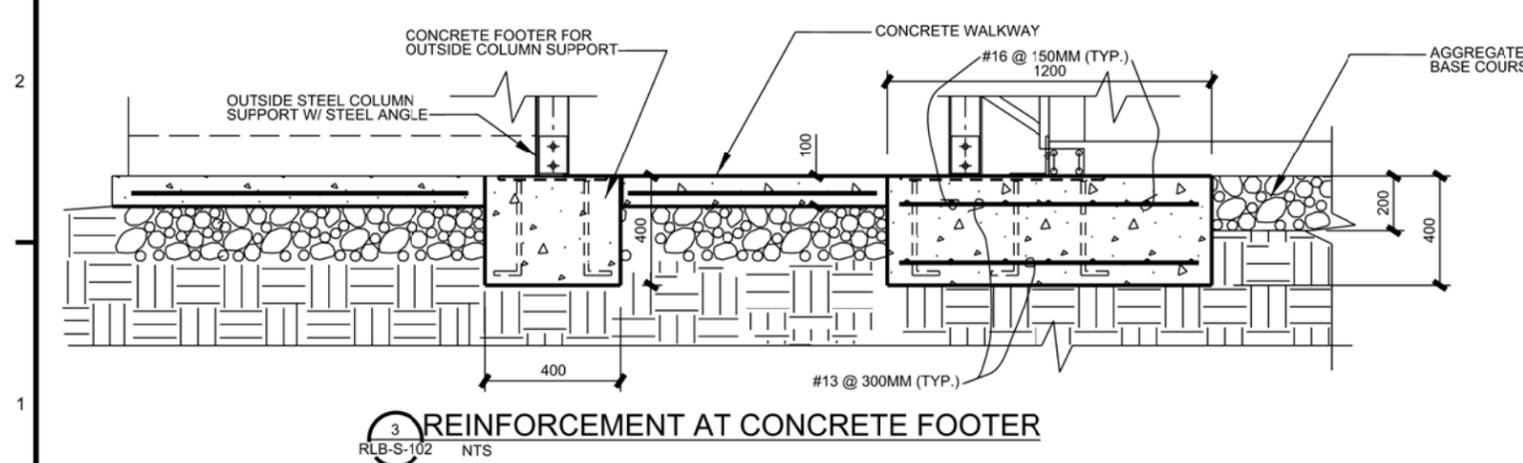


1 STEEL ANCHOR PLATE CONNECTION  
RLB-S-102 NTS

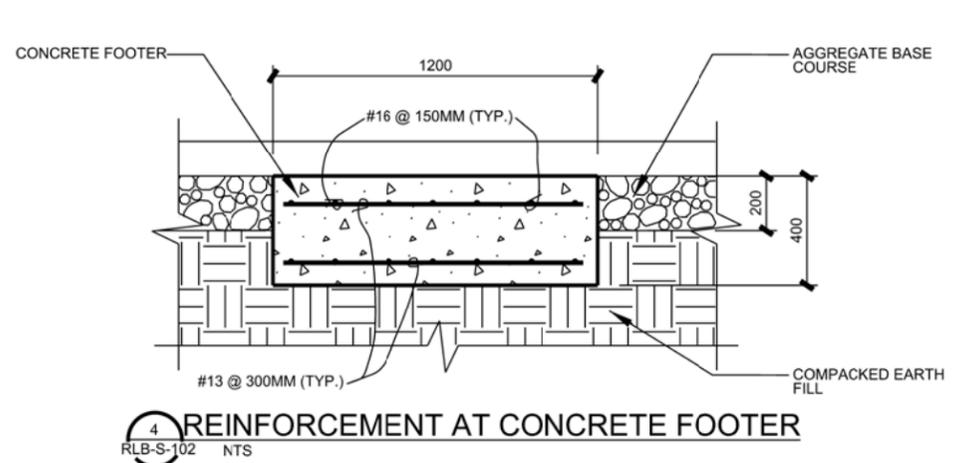


2 STEEL ANCHOR PLATE CONNECTION AT WALKWAY COLUMN SUPPORT  
RLB-S-102 NTS

GENERAL NOTES:  
1. STEEL ANGLE SUPPORTS FOR CORNER CONNECTION TO RLB SHOULD BE 75MM X 75MM X 10MM TO SECURE TO RLB AT THIS LOCATON ONLY



3 REINFORCEMENT AT CONCRETE FOOTER  
RLB-S-102 NTS



4 REINFORCEMENT AT CONCRETE FOOTER  
RLB-S-102 NTS

# CONCEPT DRAWINGS

US ARMY CORPS OF ENGINEERS  
AFGHANISTAN ENGINEER DISTRICT

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REVIEWED BY:	DRAWING CODE:	FILE NAME:	SYMBOL:
SUBMITTED BY:	PLOT NAME:	PLOT SCALE:	DATE:
	PLOT DATE:		

S. ARMY ENGINEER DISTRICT AFGHANISTAN  
CORPS OF ENGINEERS  
APO AE 96338

ENGINEERING AND  
CONSTRUCTION DIVISION

RLB HOUSING  
MULTIPLE SITES  
RLB BUILDING UNITS  
RLB CONNECTION DETAILS  
AND FOOTING DETAILS

SHEET  
REFERENCE  
NUMBER:  
RLB-S-102  
SHEET -- OF --





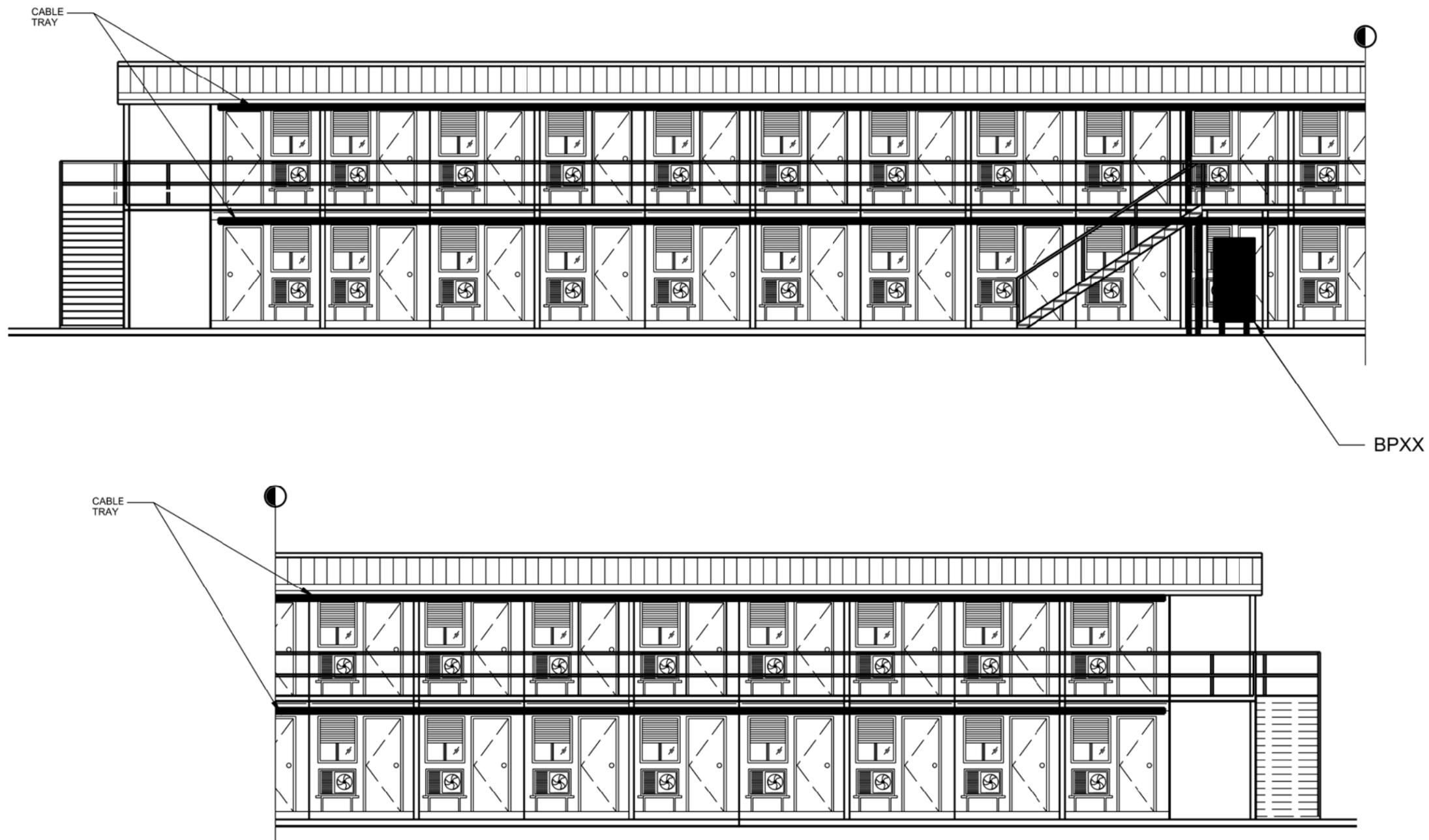












CABLE TRAY LAYOUT ELEVATION

NOTES:

1. POWER TO THE INDIVIDUAL UNITS SHALL BE FED FROM THE BPXX PANEL LOCATED ON THE SAME SIDE OF THE STRUCTURE. CABLES SHALL BE RUN FROM THE BPXX PANEL UP THE CONDUITS TO THE CABLE TRAY AND THEN FROM THE CABLE TRAY TO THE INDIVIDUAL UNITS.
2. CONTRACTOR SHALL SIZE THE CONDUITS FROM THE BPXX PANELS TO THE CABLE TRAYS, THE CABLE TRAYS AND THE CONDUCTORS FROM THE BPXX PANELS TO THE INDIVIDUAL UNITS.
3. CABLE TRAY LAYOUTS SHOWN ARE TYPICAL AND SHALL BE THE SAME ON BOTH SIDES OF EACH BUILDING.
4. SEE SHEETS E-105 AND E-106 FOR FURTHER DETAILS.

CONCEPT DRAWINGS



US ARMY CORPS OF ENGINEERS  
AFGHANISTAN  
ENGINEER DISTRICT

SYMBOL	DESCRIPTION	DATE	APPROV.

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DRAWN BY:	DESIGN FILE NO:	
REVIEWED BY:	DRAWING CODE:	
SUBMITTED BY:	FILE NAME:	
	PLOT SCALE:	
	PLOT DATE:	

U.S. ARMY ENGINEER DISTRICT AFGHANISTAN  
CORPS OF ENGINEERS  
APO AE 96338

ENGINEERING AND  
CONSTRUCTION DIVISION

RLB HOUSING  
MULTIPLE SITES  
RLB BUILDING UNITS  
CABLE TRAY  
DETAILS

SHEET  
REFERENCE  
NUMBER:  
RLB-E-104  
SHEET -- OF --





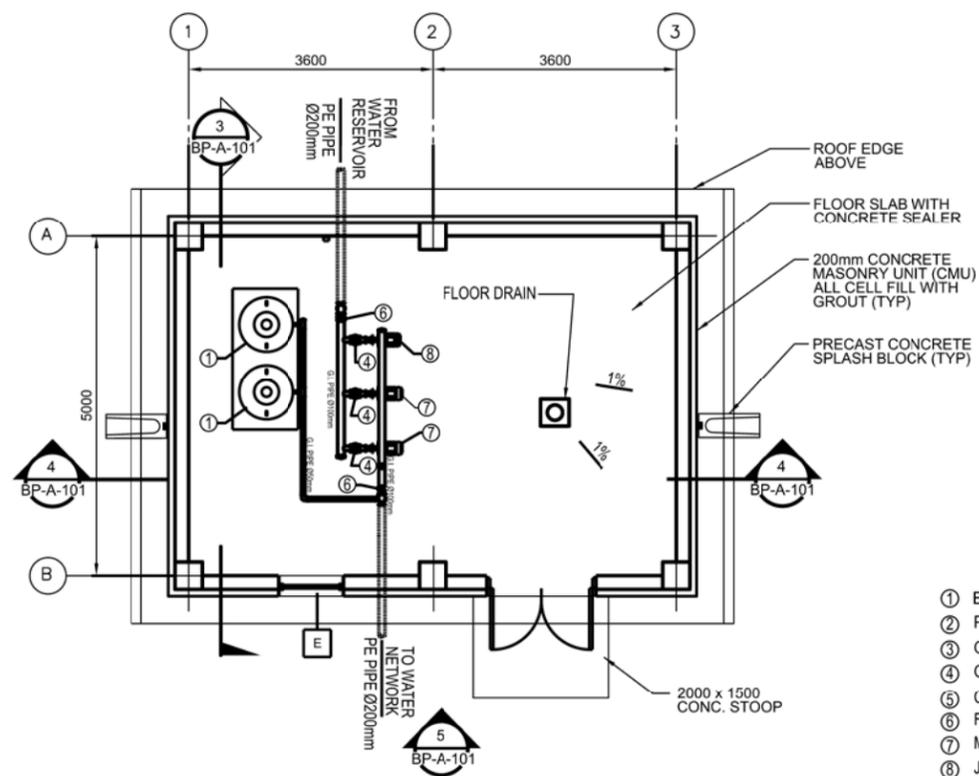






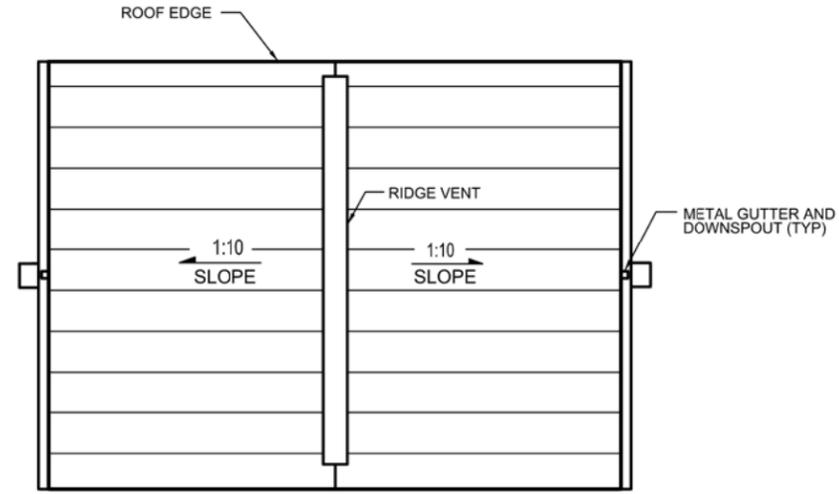




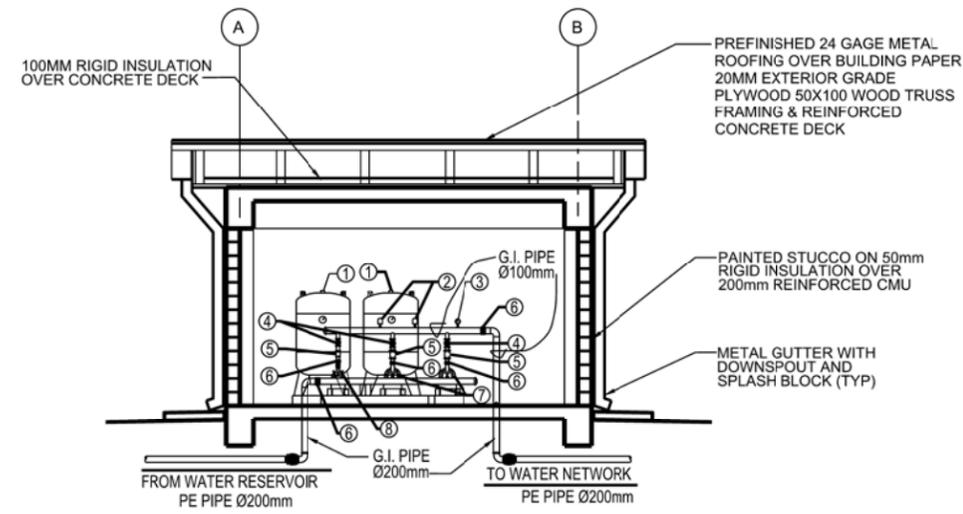


**1 FLOOR PLAN**  
BP-A-101 SCALE = 1:50

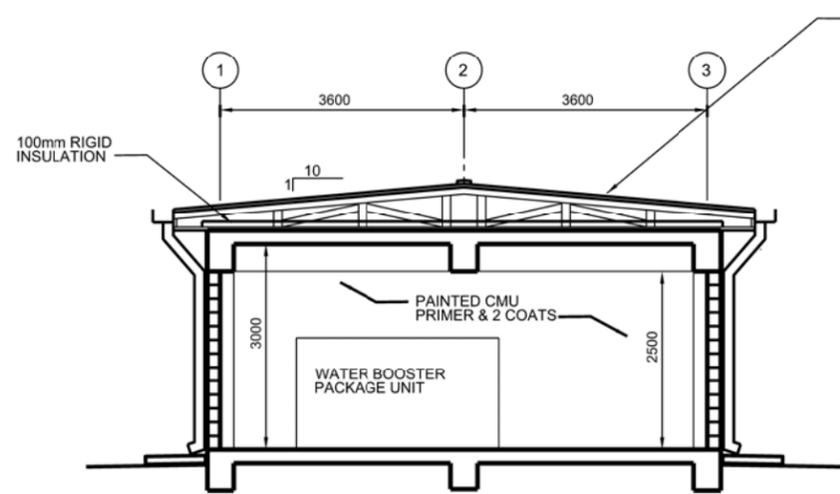
- ① EXPANSION TANK 500 Lit
- ② PRESSURE SWITCH
- ③ GAUGE
- ④ GATE VALVE
- ⑤ CHECK VALVE
- ⑥ FLEXIBLE JOINT
- ⑦ MAIN PUMPS
- ⑧ JOCKEY PUMP



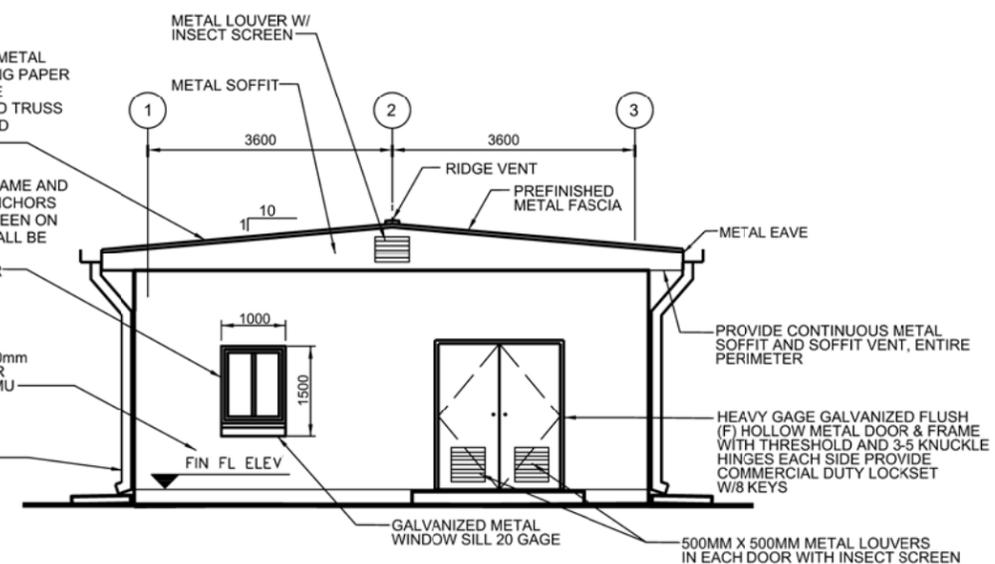
**2 ROOF PLAN**  
BP-A-101 SCALE = 1:50



**3 BUILDING SECTION**  
BP-A-101 SCALE = 1:50



**4 BUILDING SECTION**  
BP-A-101 SCALE = 1:50



**5 ELEVATION**  
BP-A-101 SCALE = 1:50

# CONCEPT DRAWINGS



DESIGNED BY:	DATE:	REVISIONS:
DRAWN BY:	DESIGN FILE NO:	NO.
CHECKED BY:	DRAWING CODE:	DATE
REVIEWED BY:	FILE NAME:	SYMBOL
SUBMITTED BY:	PLOT SCALE:	DESCRIPTION
	PLOT DATE:	STATION
		DATE

DESIGNED BY:	DATE:	REVISIONS:
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		DATE

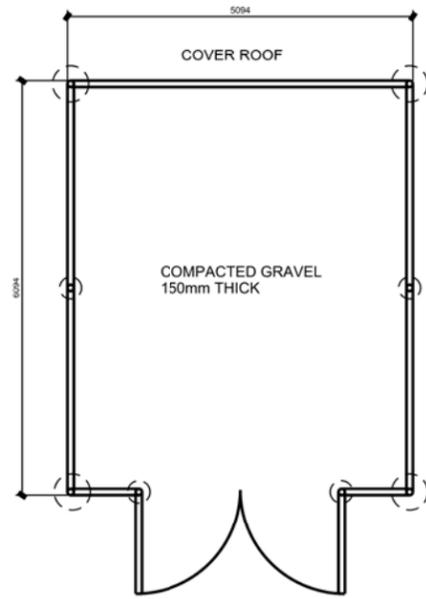
RLB HOUSING  
MULTIPLE SITES  
BOOSTER PUMP BUILDING  
**FLOOR PLAN, ROOF PLAN  
SECTION AND ELEVATION**

SHEET  
REFERENCE  
NUMBER:  
**BP-A-101**  
SHEET -- OF --

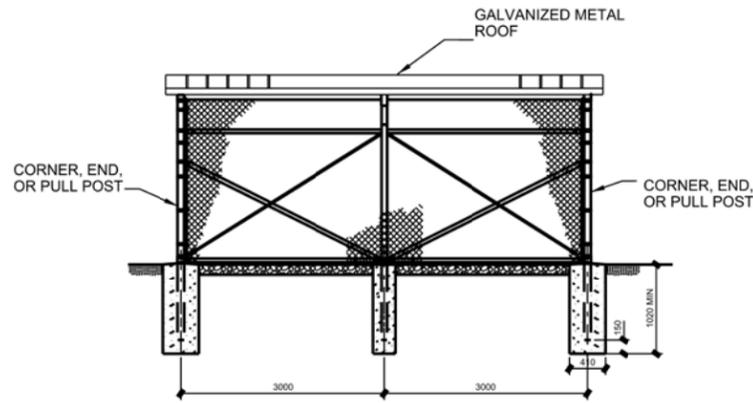




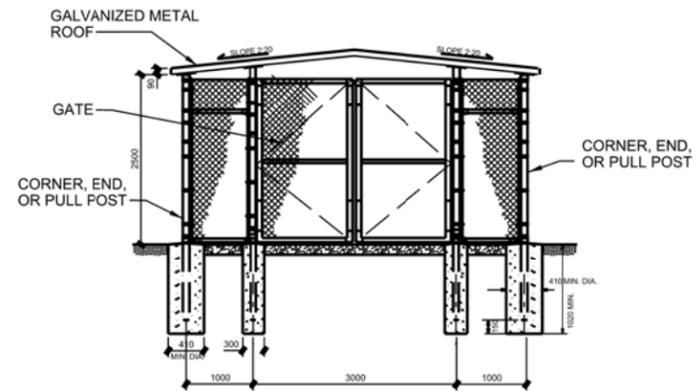




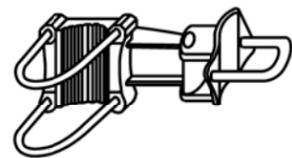
1 FLOOR PLAN  
TS-C-101 SCALE: 1=50



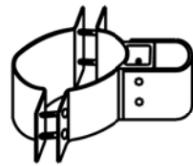
2 FRONT ELEVATION  
TS-C-101 SCALE: 1=50



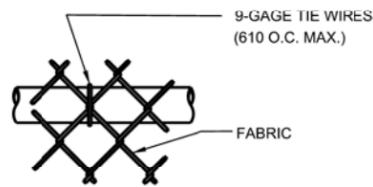
3 SIDE ELEVATION  
TS-C-101 SCALE: 1=50



STANDARD HINGE



TOP OR BRACE RAIL ATTACHMENT



4 LINE POSTS ATTACHMENTS  
TS-C-101 NTS



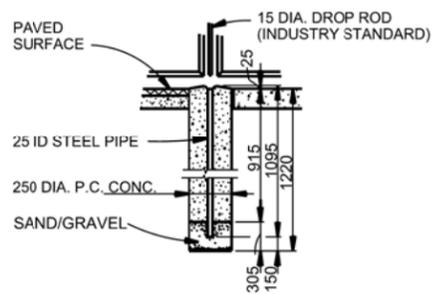
H-BEAM

TIE WIRE  
(380 O.C. MAX. AND  
WITHIN 100 FROM  
TOP AND BOTTOM  
OF FABRIC)

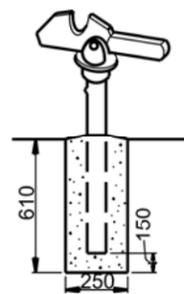


ROUND POST

TIE WIRE  
(380 O.C. MAX. AND  
WITHIN 100 FROM  
TOP AND BOTTOM  
OF FABRIC)



DROP ROD FOUNDATION



GATE KEEPER  
(TO HOLD GATE OPEN)



LATCH ASSEMBLY



DROP ROD ASSEMBLY

5 SWING GATE DETAILS  
TS-C-101 NTS

CONCEPT DRAWINGS



US ARMY CORPS  
OF ENGINEERS  
AFGHANISTAN  
ENGINEER DISTRICT

SYMBOL	DESCRIPTION	DATE	APPRO.

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RLB HOUSING  
MULTIPLE SITES  
TRASH SHED  
TRASH SHED LAYOUT  
ELEVATIONS, & DETAILS

SHEET  
REFERENCE  
NUMBER:  
TS-C-101  
SHEET — OF —



US ARMY CORPS OF ENGINEERS  
AFGHANISTAN  
ENGINEER DISTRICT

DATE	APPROVED	DESCRIPTION

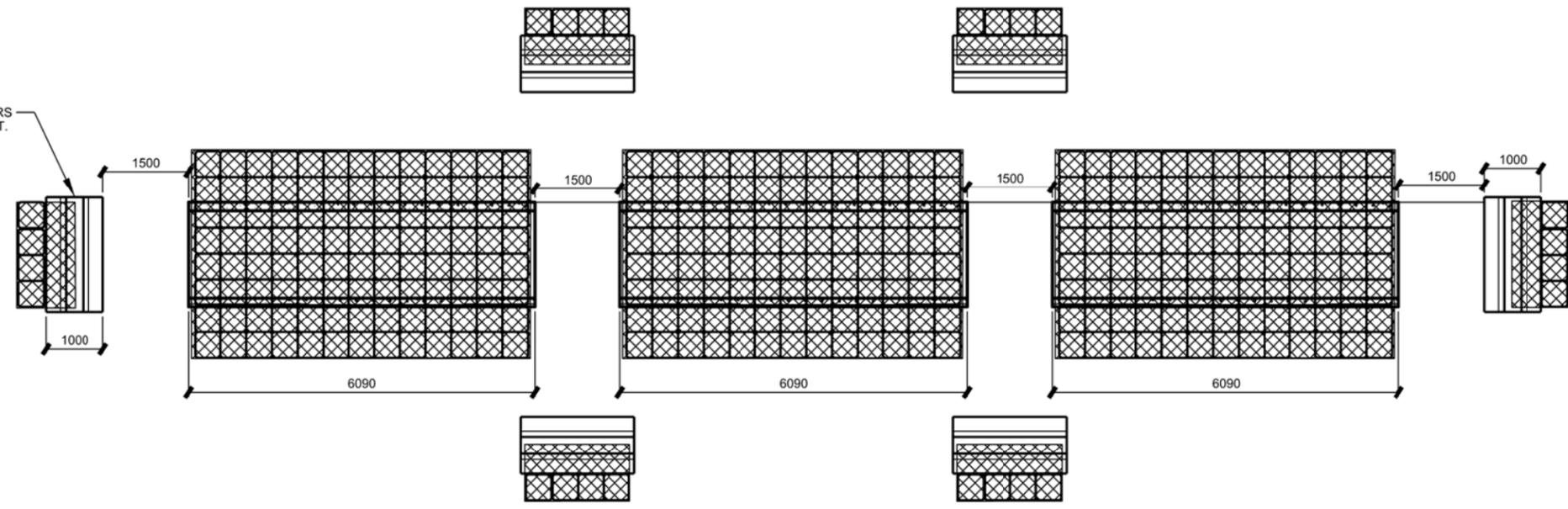
DESIGNED BY	DATE	REV

U.S. ARMY ENGINEER DISTRICT AFGHANISTAN  
CORPS OF ENGINEERS  
APO AE 96338

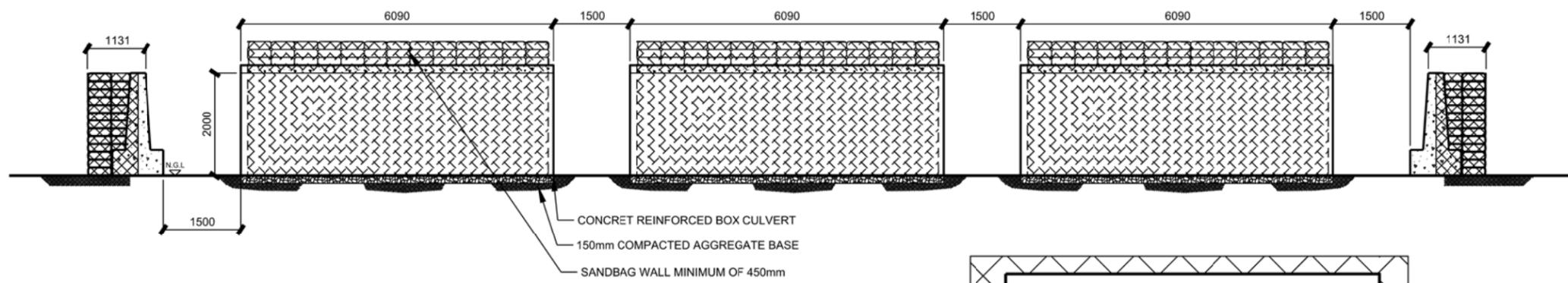
ENGINEERING AND  
CONSTRUCTION DIVISION

SHEET  
REFERENCE  
NUMBER:  
PB-C-101  
SHEET -- OF --

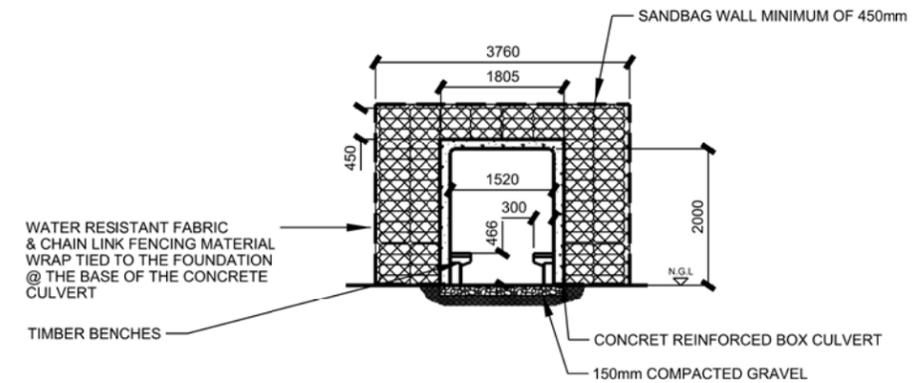
TEXAS BARRIERS  
SEE DETAIL SHT.



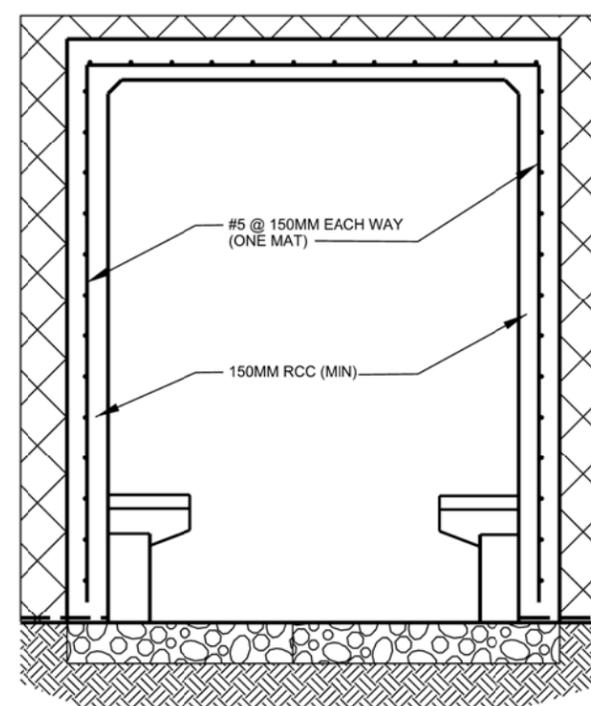
**A PLAN VIEW**  
PB-A-101 SCALE= 1:50



**1 SECTION**  
PB-A-101 SCALE= 1:50



**2 FRONT ELEVATION**  
PB-A-101 SCALE= 1:50



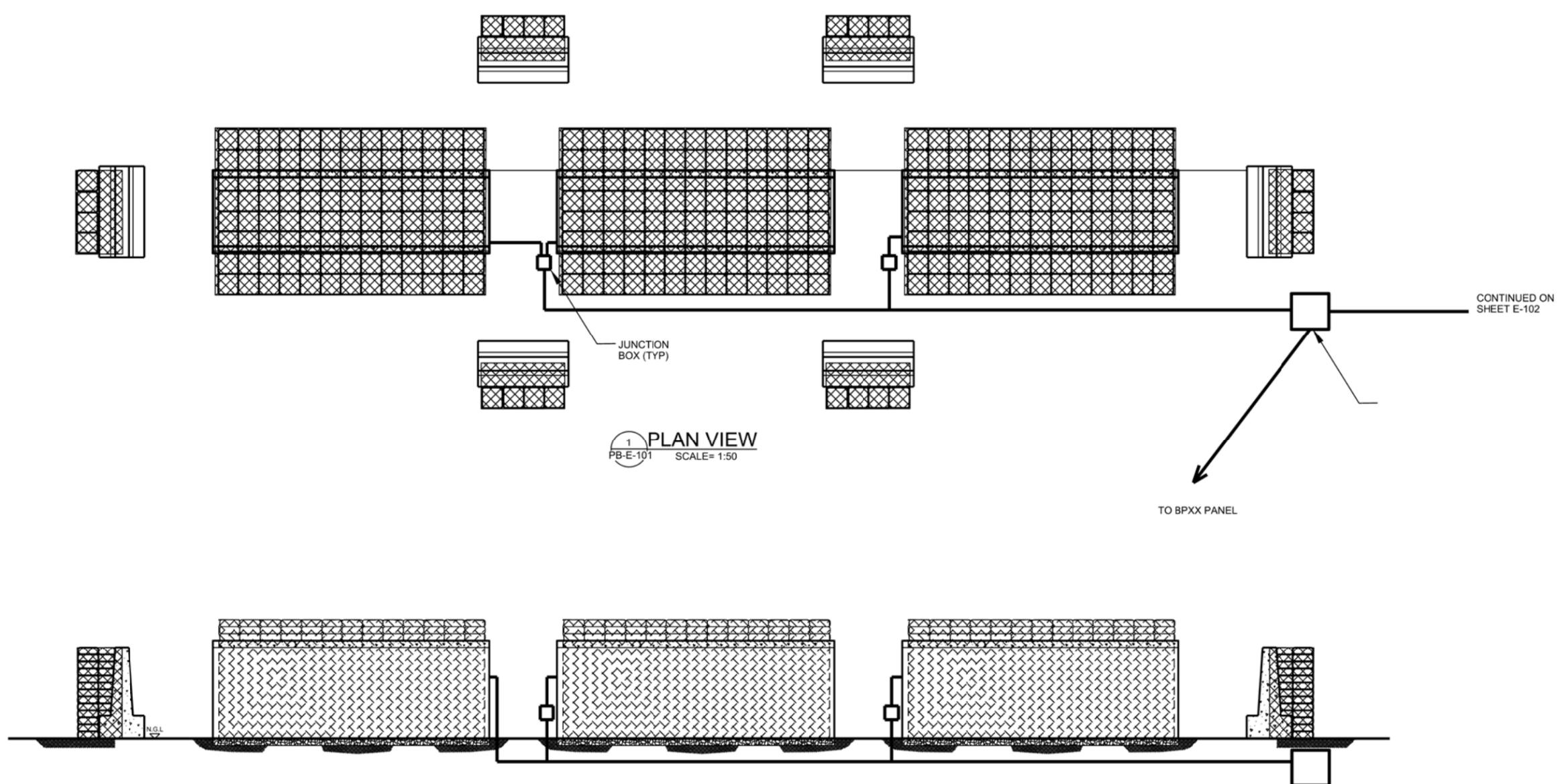
**3 BUNKER REINFORCING PLAN**  
PB-A-101 SCALE= 1:100



# CONCEPT DRAWINGS

A B C D E F G H

6  
5  
4  
3  
2  
1



1 PLAN VIEW  
PB-E-101 SCALE= 1:50

2 SECTION  
PB-E-101 SCALE= 1:50

- NOTES:
1. RUN CIRCUIT FROM BPXX PANEL TO EACH BUNKER.
  2. PLACE THE JUNCTION BOX ON EACH BUNKER. RUN CIRCUIT FROM JUNCTION BOX IN BUNKER. INSTALL TWO INCANDESCENT LIGHTS, EQUALLY SPACED, WITH A LIGHT SWITCH.
  3. JUNCTION BOX LOCATIONS ARE APPROXIMATE.
  4. CONTRACTOR SHALL SIZE THE HANDHOLES, JUNCTION BOXES AND CONDUIT AND CABLE FROM THE HANDHOLE.

GRAPHIC SCALE



CONCEPT DRAWINGS



DATE	DESCRIPTION	BY	DATE	DESCRIPTION	BY

DESIGNED BY:	DATE:	REV:
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REVIEWED BY:	DRAWING CODE:	
SUBMITTED BY:	FILE NAME:	
	PLOT SCALE:	
	PLOT DATE:	

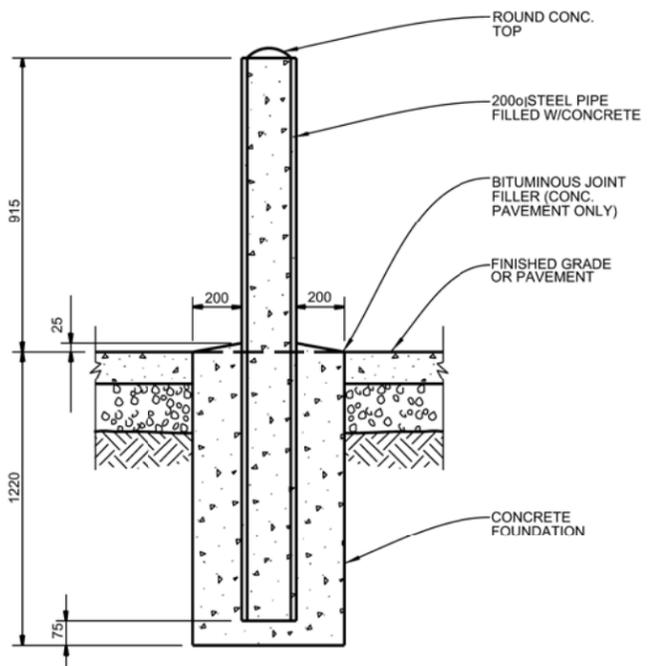
U.S. ARMY ENGINEER DISTRICT AFGHANISTAN  
CORPS OF ENGINEERS  
APO AE 96338

ENGINEERING AND  
CONSTRUCTION DIVISION

RLB HOUSING  
MULTIPLE SITES  
PERSONNEL BUNKER  
PERSONNEL BUNKER FACILITY  
ELECTRICAL POWER PLAN

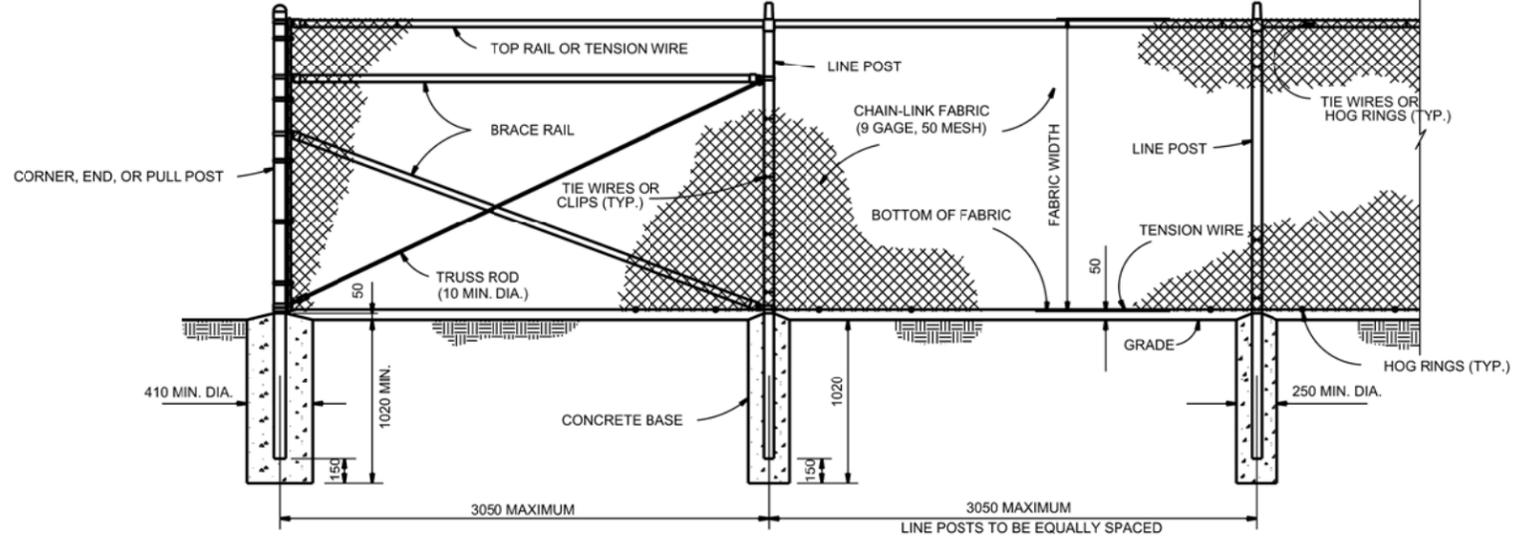
SHEET  
REFERENCE  
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PB-E-101  
SHEET -- OF --



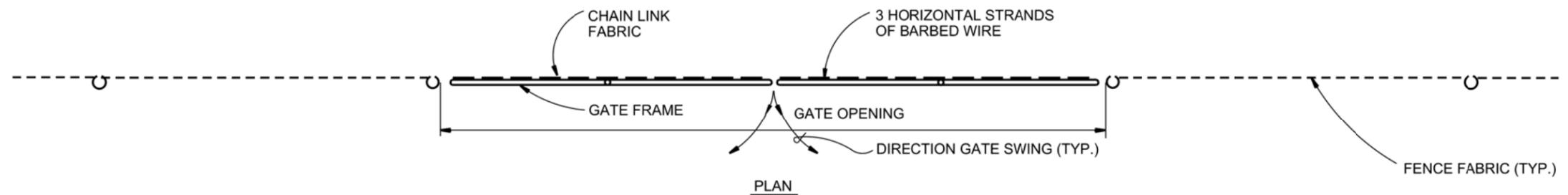


**1 PIPE GUARD DETAIL**  
STD-C-101 NTS

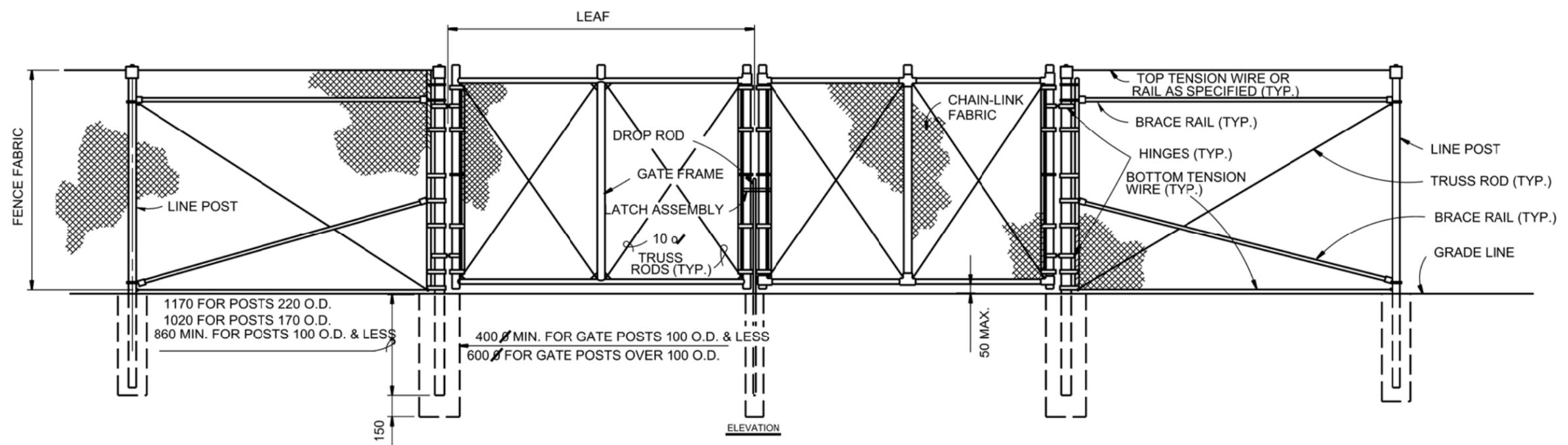
NOTE:  
STEEL PIPE SHALL BE GALVANIZED (610 g ZINC/SQ. m)  
& HAVE A MINIMUM WALL THICKNESS OF 8 mm.



**2 CHAIN-LINK SECURITY FENCE DETAIL**  
STD-C-101 NTS



**PLAN**



**ELEVATION**

**3 DOUBLE-SWING GATE (TYPE FE7 FENCE)**  
STD-C-101 NTS

**CONCEPT DRAWINGS**



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SUBMITTED BY:	FILE NAME:
	PLOT SCALE:
	PLOT DATE:
	DATE:
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SUBMITTED BY:	FILE NAME:
	PLOT SCALE:
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	APPROVAL:
	DESCRIPTION:
	SYMBOL:

RLB HOUSING MULTIPLE SITES STANDARD DRAWINGS PIPE GUARD DETAIL AND FENCING DETAILS
--

SHEET REFERENCE NUMBER: STD-C-101 SHEET -- OF --
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