



Department of Pharmaceuticals  
Ministry of Chemicals and Fertilizers  
Government of India

AP BULK DRUG PARK  
NAKKAPALLI, ANDHRA PRADESH

## BIDDING DOCUMENTS

(Tender Drawings)

JANUARY 2024

SUBMITTED BY



Government of Andhra Pradesh

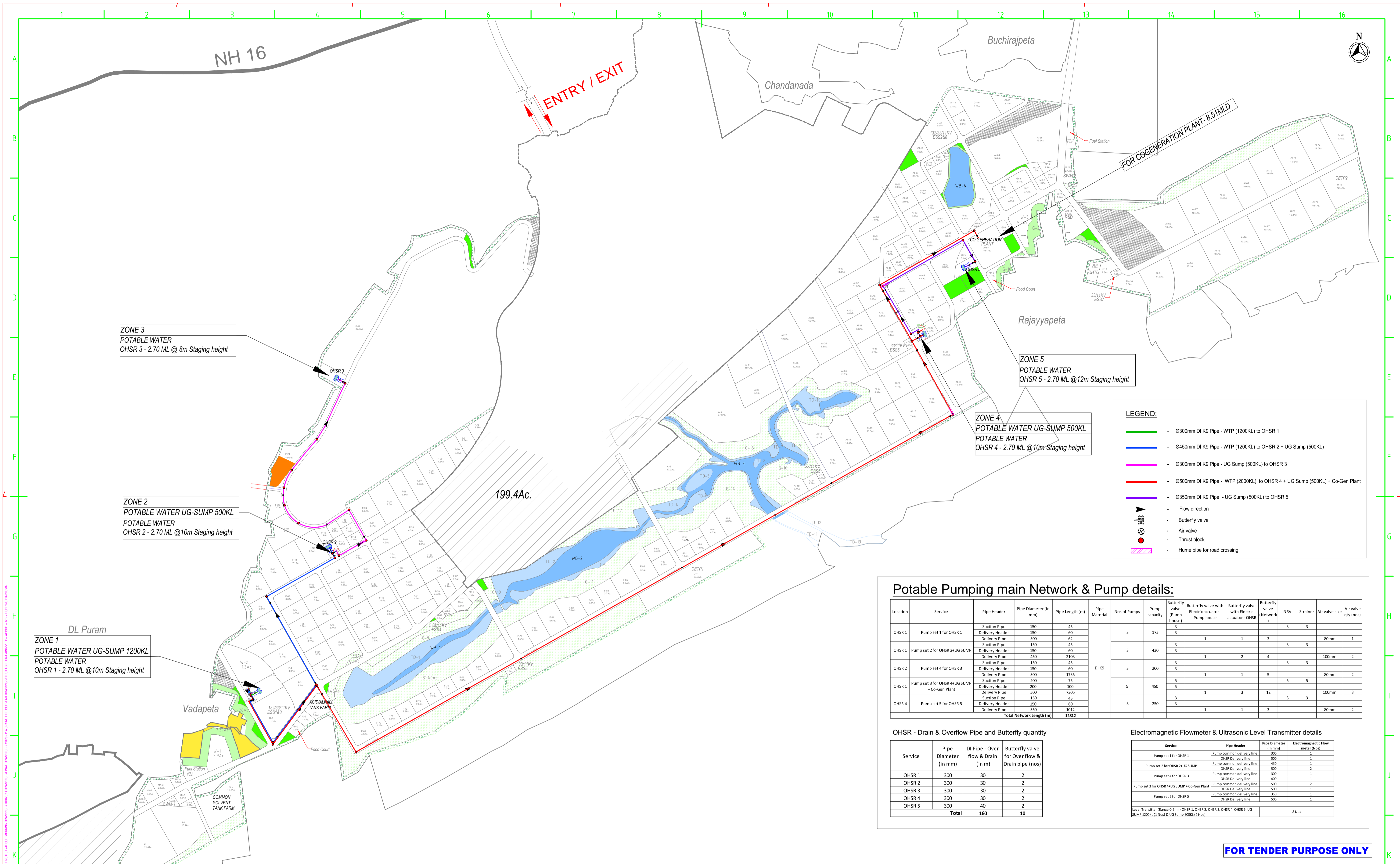
Nodal Agency

Andhra Pradesh Industrial Infrastructure Corporation Limited

Implementing Agency

AP Bulk Drug Infrastructure Corp. Ltd.

VOLUME –II (B) WATER SUPPLY  
DRAWINGS



**ZONE 3**  
POTABLE WATER  
OHSR 3 - 2.70 ML @ 8m Staging height

**ZONE 5**  
POTABLE WATER  
OHSR 5 - 2.70 ML @ 12m Staging height

**ZONE 4**  
POTABLE WATER UG-SUMP 500KL  
POTABLE WATER  
OHSR 4 - 2.70 ML @ 10m Staging height

**ZONE 2**  
POTABLE WATER UG-SUMP 500KL  
POTABLE WATER  
OHSR 2 - 2.70 ML @ 10m Staging height

**DL Puram**  
**ZONE 1**  
POTABLE WATER UG-SUMP 1200KL  
POTABLE WATER  
OHSR 1 - 2.70 ML @ 10m Staging height

**LEGEND:**

- 0300mm DI K9 Pipe - WTP (1200KL) to OHSR 1
- 0450mm DI K9 Pipe - WTP (1200KL) to OHSR 2 + UG Sump (500KL)
- 0300mm DI K9 Pipe - UG Sump (500KL) to OHSR 3
- 0500mm DI K9 Pipe - WTP (2000KL) to OHSR 4 + UG Sump (500KL) + Co-Gen Plant
- 0350mm DI K9 Pipe - UG Sump (500KL) to OHSR 5
- ▲ Flow direction
- ⊘ Butterfly valve
- ⊙ Air valve
- ⊛ Thrust block
- ▨ Hume pipe for road crossing

**Potable Pumping main Network & Pump details:**

Location	Service	Pipe Header	Pipe Diameter (in mm)	Pipe Length (m)	Pipe Material	Nos of Pumps	Pump capacity	Butterfly valve (Pump house)	Butterfly valve with Electric actuator - Pump house	Butterfly valve with Electric actuator - OHSR	Butterfly valve (Network)	NRV	Strainer	Air valve size	Air valve qty (nos)
OHSR 1	Pump set 1 for OHSR 1	Suction Pipe	150	45	DI K9	3	175	3				3	3		
		Delivery Header	150	60						1	3		3	3	80mm
OHSR 1	Pump set 2 for OHSR 2+UG SUMP	Suction Pipe	150	45	DI K9	3	430	3	1				3	3	
		Delivery Header	150	60						2	4		3	3	100mm
OHSR 2	Pump set 4 for OHSR 3	Suction Pipe	150	45	DI K9	3	200	3							
		Delivery Header	150	60						1	1		5	5	80mm
OHSR 1	Pump set 3 for OHSR 4-UG SUMP + Co-Gen Plant	Suction Pipe	200	75	DI K9	5	450	5							
		Delivery Header	200	100						3	12		3	3	100mm
OHSR 4	Pump set 5 for OHSR 5	Suction Pipe	150	45	DI K9	3	250	3							
		Delivery Header	150	60						1	1		3	3	80mm
		<b>Total Network Length (m)</b>		<b>12812</b>											

**OHSR - Drain & Overflow Pipe and Butterfly quantity**

Service	Pipe Diameter (in mm)	DI Pipe - Over flow & Drain (in m)	Butterfly valve for Over flow & Drain pipe (nos)
OHSR 1	300	30	2
OHSR 2	300	30	2
OHSR 3	300	30	2
OHSR 4	300	30	2
OHSR 5	300	40	2
<b>Total</b>	<b>160</b>	<b>160</b>	<b>10</b>

**Electromagnetic Flowmeter & Ultrasonic Level Transmitter details**

Service	Pipe Header	Pipe Diameter (in mm)	Electromagnetic Flow meter (Nos)
Pump set 1 for OHSR 1	Pump common delivery line	300	1
	OHSR Delivery line	300	1
Pump set 2 for OHSR 2+UG SUMP	Pump common delivery line	450	1
	OHSR Delivery line	450	2
Pump set 4 for OHSR 3	Pump common delivery line	300	1
	OHSR Delivery line	400	1
Pump set 3 for OHSR 4+UG SUMP + Co-Gen Plant	Pump common delivery line	300	2
	OHSR Delivery line	300	1
Pump set 5 for OHSR 5	Pump common delivery line	350	1
	OHSR Delivery line	300	1
Level Transmitter (Range 0-5m) - OHSR 1, OHSR 2, OHSR 3, OHSR 4, OHSR 5, UG SUMP 1200KL (1 Nos) & UG Sump 500KL (2 Nos)			3 Nos

**FOR TENDER PURPOSE ONLY**

**NOTES**

REV.	YYMMDD DATE	STATUS	DESCRIPTION	DES.	DRN.	INIT.	SIGN.	INIT.	SIGN.

**DRAWING NO.** \_\_\_\_\_ **TITLE** \_\_\_\_\_

**REFERENCE DRAWINGS**

**STATUS CODES** 1: PRELIMINARY 2: FOR APPROVAL 3: GOOD FOR CONSTRUCTION 4: \_\_\_\_\_

**CLIENT:** ANDHRA PRADESH INDUSTRIAL INFRASTRUCTURE CORPORATION LIMITED (APIIC)

**PROJECT:** SETTING UP OF BULK DRUG PARK AT NAKKAPALLI IN ANAKAPALLI DISTRICT, ANDHRA PRADESH

**PROJECT NO:** C1232704

**COP:** \_\_\_\_\_

**TITLE:** POTABLE PUMPING MAIN ALIGNMENT

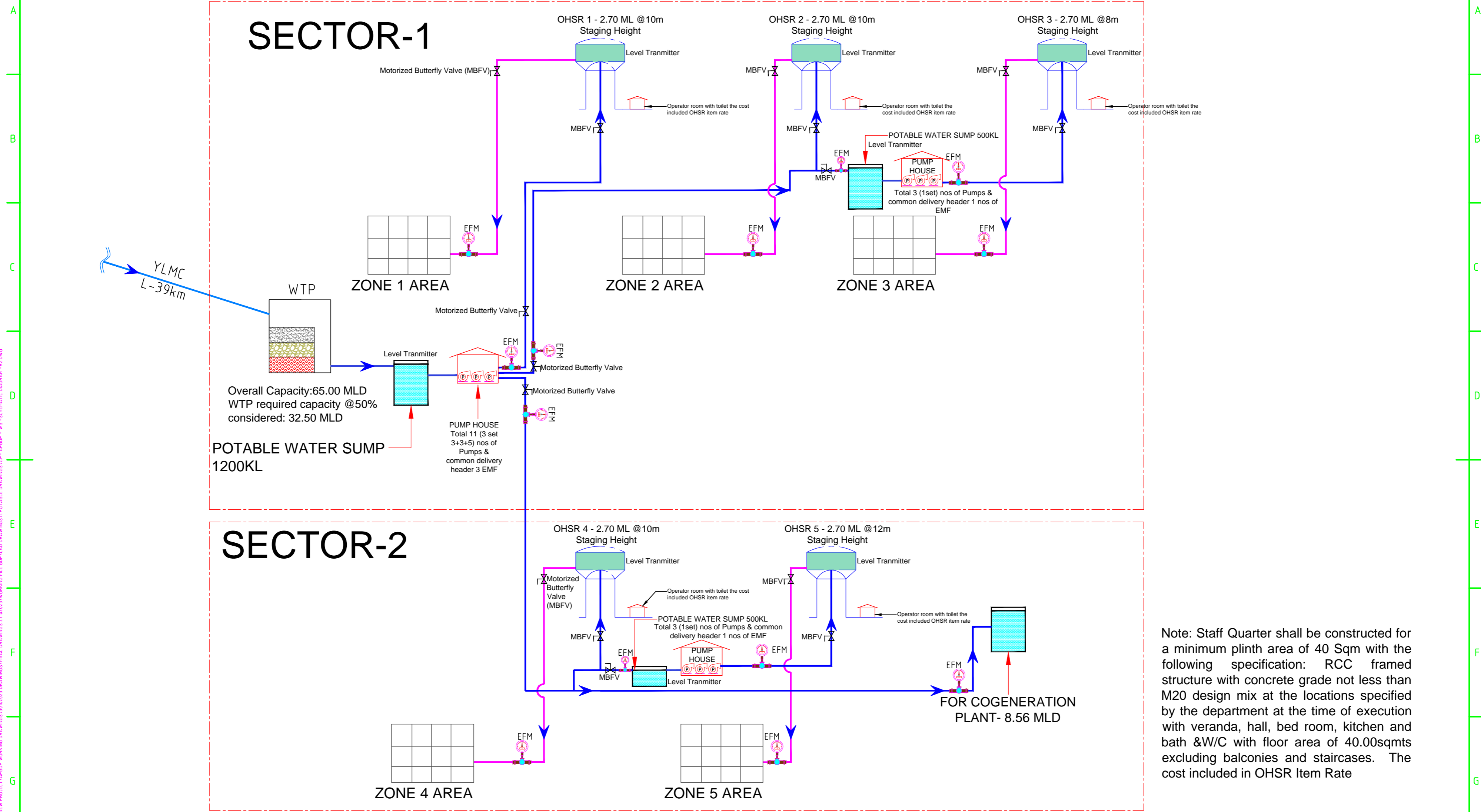
**SCALE:** NTS@A1

**DRAWING NO:** DDW300R0

**REV:** \_\_\_\_\_

**IN CONSORTIUM WITH:** L&T Infrastructure Engineering Ltd. (Logo) and ARTELIA (Logo)

1 2 3 4 5 6 7 8 9 10 11 12



Note: Staff Quarter shall be constructed for a minimum plinth area of 40 Sqm with the following specification: RCC framed structure with concrete grade not less than M20 design mix at the locations specified by the department at the time of execution with veranda, hall, bed room, kitchen and bath &W/C with floor area of 40.00sqmts excluding balconies and staircases. The cost included in OHSR Item Rate

**FOR TENDER PURPOSE ONLY**

NOTES:												CLIENT: ANDHRA PRADESH INDUSTRIAL INFRASTRUCTURE CORPORATION LIMITED (APIIC)	
												PROJECT: SETTING UP OF BULK DRUG PARK AT NAKKAPALLI IN ANAKAPALLI DISTRICT, ANDHRA PRADESH	
												PROJECT NO: C1232704	
												SCALE: NTS@A2	
												DRAWING NO: DDW301	
												REV: R0	
												TITLE: SCHEMATIC DIAGRAM FOR POTABLE WATER SUPPLY	
												L&T Infrastructure Engineering Ltd. IN CONSORTIUM WITH: ARTELIA	
												plot scale	

REV.	YYMMDD DATE	STATUS	DESCRIPTION	DES.	DRN.	INIT. CHECKED	SIGN. APPROVED

DRAWING NO.	TITLE	STATUS CODES	1: PRELIMINARY	2: FOR APPROVAL	3: GOOD FOR CONSTRUCTION	4: .....
REFERENCE DRAWINGS						

PLATE: REFER BOTTOM OF THE DRAWING  
 LEFT CORNER OF THE DRAWING

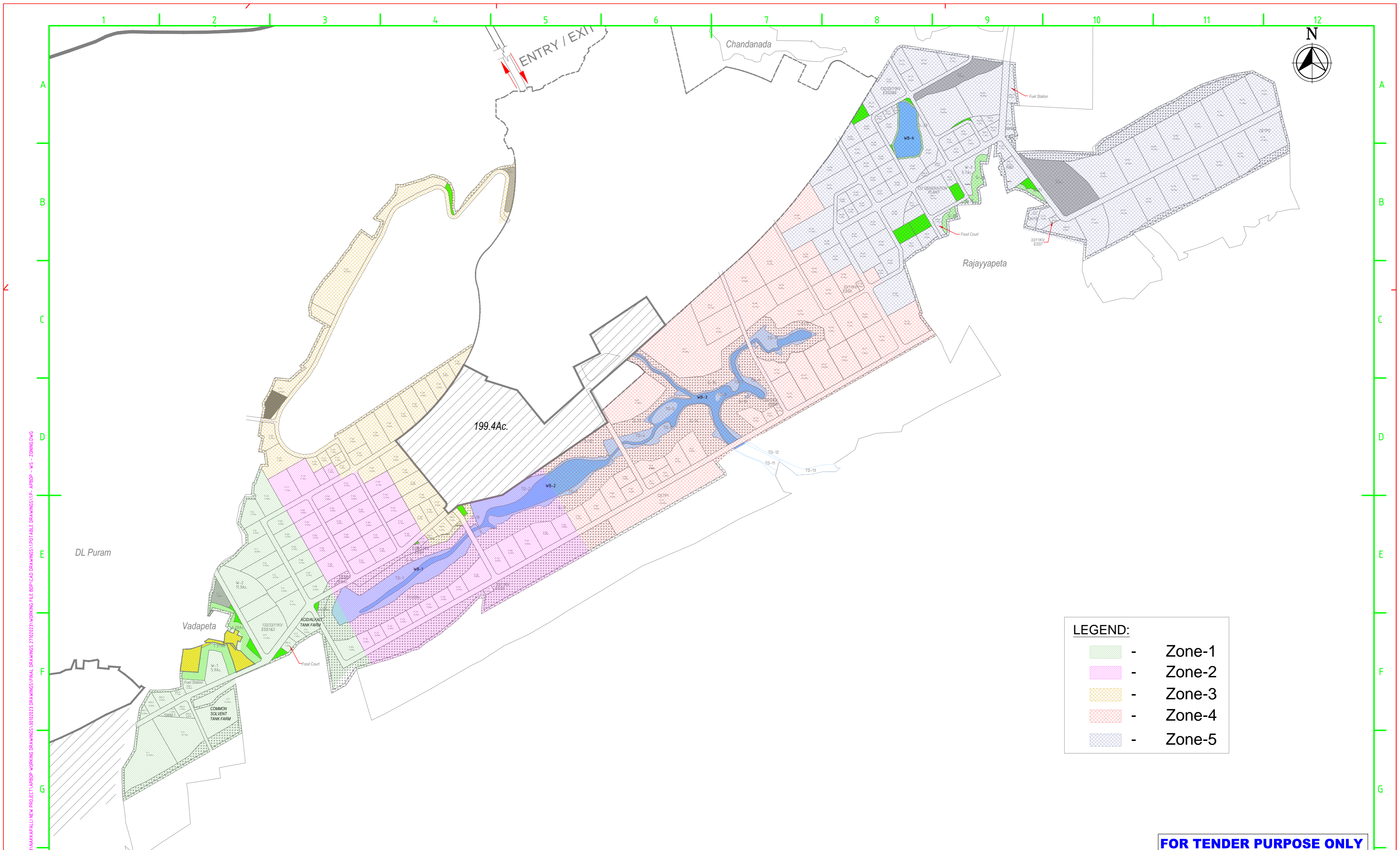
plot scale

50mm

12

AUTO DATA EXCHANGE PROJECTS\APB03\0302023\NAKKAPALLI\NEW PROJECT\APB03\0302023\DRAWINGS\WTP POTABLE DRAWINGS\WTP - APB03 - WS - SCHEMATIC DIAGRAM - RD.DWG

TBA

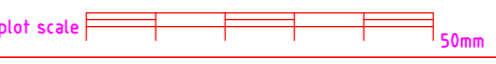


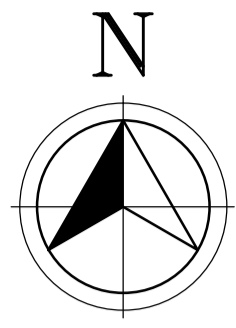
**LEGEND:**

- Zone-1
- Zone-2
- Zone-3
- Zone-4
- Zone-5

**FOR TENDER PURPOSE ONLY**

<p><b>NOTES:</b></p>												CLIENT: ANDHRA PRADESH INDUSTRIAL INFRASTRUCTURE CORPORATION LIMITED (APIIC)																																									
												PROJECT: SETTING UP OF BULK DRUG PARK AT NAKKAPALLI IN ANAKAPALLI DISTRICT, ANDHRA PRADESH																																									
<p><b>REVISIONS</b></p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: 8px;"> <thead> <tr> <th>REV.</th> <th>YYMMDD DATE</th> <th>STATUS</th> <th>DESCRIPTION</th> <th>DES.</th> <th>DRN.</th> <th>INIT. CHECKED</th> <th>SIGN. APPROVED</th> <th>INIT.</th> <th>SIGN.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		REV.	YYMMDD DATE	STATUS	DESCRIPTION	DES.	DRN.	INIT. CHECKED	SIGN. APPROVED	INIT.	SIGN.																																									PROJECT NO: C1232704	
		REV.	YYMMDD DATE	STATUS	DESCRIPTION	DES.	DRN.	INIT. CHECKED	SIGN. APPROVED	INIT.	SIGN.																																										
<p><b>REFERENCE DRAWINGS</b></p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: 8px;"> <thead> <tr> <th>DRAWING NO.</th> <th>TITLE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>		DRAWING NO.	TITLE											STATUS CODES 1: PRELIMINARY 2: FOR APPROVAL 3: GOOD FOR CONSTRUCTION 4: .....										TITLE: POTABLE WATER NETWORK ZONING																													
DRAWING NO.	TITLE																																																				
		SCALE: NTS@A2										DRAWING NO: DDW302																																									
		REVISIONS										REV: R0																																									





199.4Ac.

LEGENDS	
	- Ø500 mm DI pipe
	- Ø450 mm DI pipe
	- Ø400 mm DI pipe
	- Ø350 mm DI pipe
	- Ø300 mm DI pipe
	- Ø250 mm DI pipe
	- Ø200 mm DI pipe
	- Ø160 mm HDPE pipe
	- Ø140 mm HDPE pipe
	- Ø110 mm HDPE pipe
	- Flow direction
	- Node
	- Node number
	- Plot connection
	- Butterfly valve
	- Scour valve
	- Air valve
	- Thrust block
	- Hume pipe for road crossing

**FOR TENDER PURPOSE ONLY**

**NOTES**

DRAWING NO.	TITLE	REV.	YYMMDD DATE	STATUS	DESCRIPTION	DES.	DRN.	INIT.	SIGN.	INIT.	SIGN.
	REFERENCE DRAWINGS										

CLIENT: **ANDHRA PRADESH INDUSTRIAL INFRASTRUCTURE CORPORATION LIMITED**  
(APIIC)

PROJECT: **SETTING UP OF BULK DRUG PARK AT NAKKAPALLI IN ANAKAPALLI DISTRICT, ANDHRA PRADESH**

TITLE: **POTABLE WATER NETWORK** (Sheet 1 of 2)

PROJECT NO: **C1232704**

COP: **NTS@A1**

SCALE: **DDW303 R0**

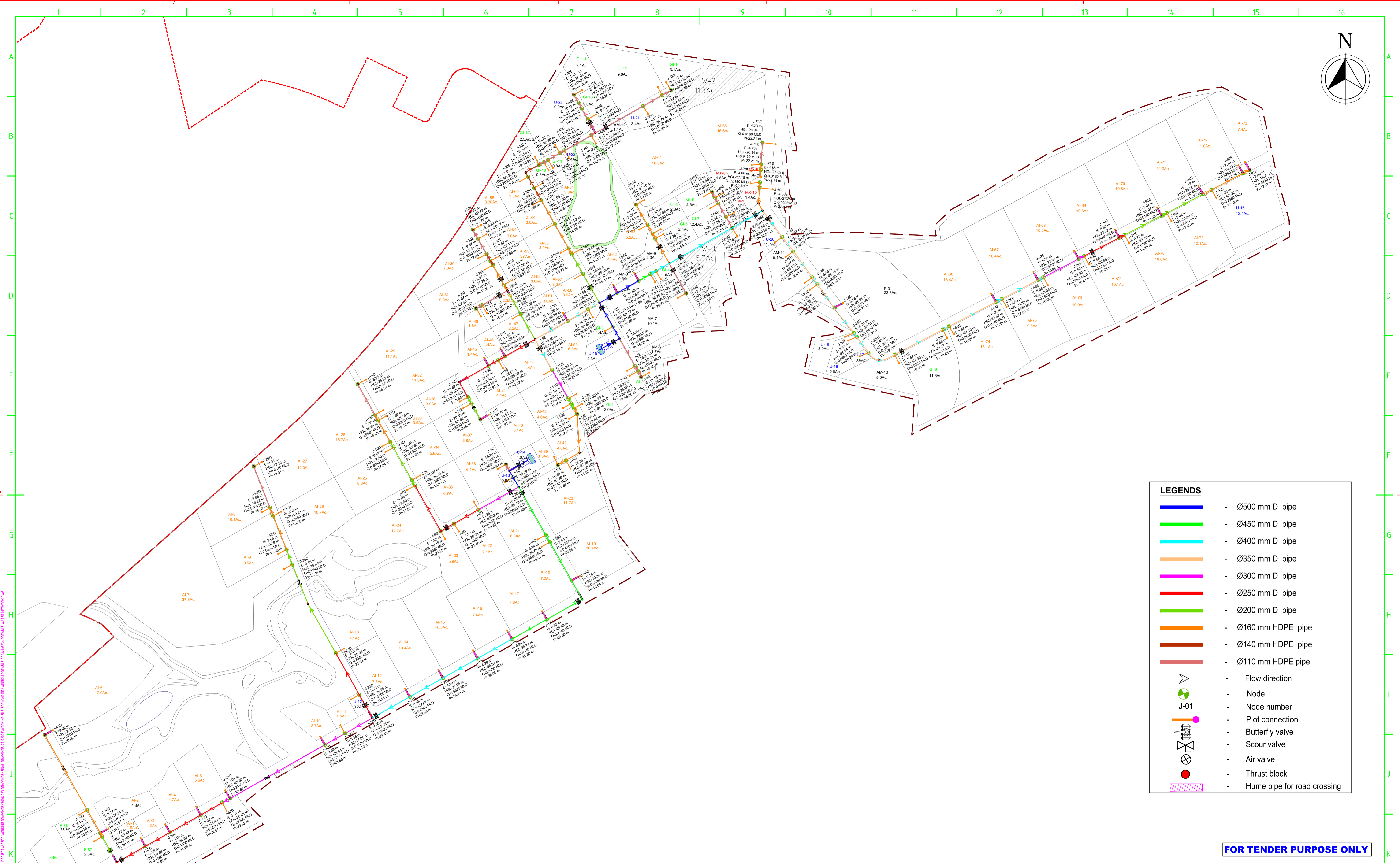
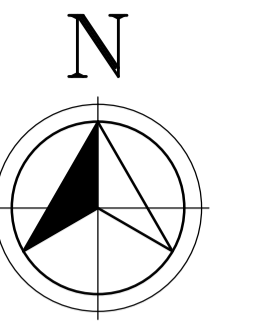
IN CONSORTIUM WITH: **ARTELIA**

**L&T Infrastructure Engineering Ltd.**

STATUS CODES: 1: PRELIMINARY 2: FOR APPROVAL 3: GOOD FOR CONSTRUCTION 4: ...

This drawing is the property of L&T Infrastructure Engineering Ltd. and must not be passed on to any person without the written permission of the company. The company is not responsible for any errors or omissions in this drawing.

plot scale: 1:50m



**LEGENDS**

- Ø500 mm DI pipe
- Ø450 mm DI pipe
- Ø400 mm DI pipe
- Ø350 mm DI pipe
- Ø300 mm DI pipe
- Ø250 mm DI pipe
- Ø200 mm DI pipe
- Ø160 mm HDPE pipe
- Ø140 mm HDPE pipe
- Ø110 mm HDPE pipe
- Flow direction
- Node
- Node number
- Plot connection
- Butterfly valve
- Scour valve
- Air valve
- Thrust block
- Hume pipe for road crossing

**FOR TENDER PURPOSE ONLY**

**NOTES**

DRAWING NO.	TITLE	REV.	YYMMDD DATE	STATUS	DESCRIPTION	DES.	DRN.	INIT.	SIGN.	INIT.	SIGN.
	REFERENCE DRAWINGS										

CLIENT: **ANDHRA PRADESH INDUSTRIAL INFRASTRUCTURE CORPORATION LIMITED (APIIC)**

PROJECT: **SETTING UP OF BULK DRUG PARK AT NAKKAPALLI IN ANAKAPALLI DISTRICT, ANDHRA PRADESH**

TITLE: **POTABLE WATER NETWORK (Sheet 2 of 2)**

PROJECT NO: **C1232704**

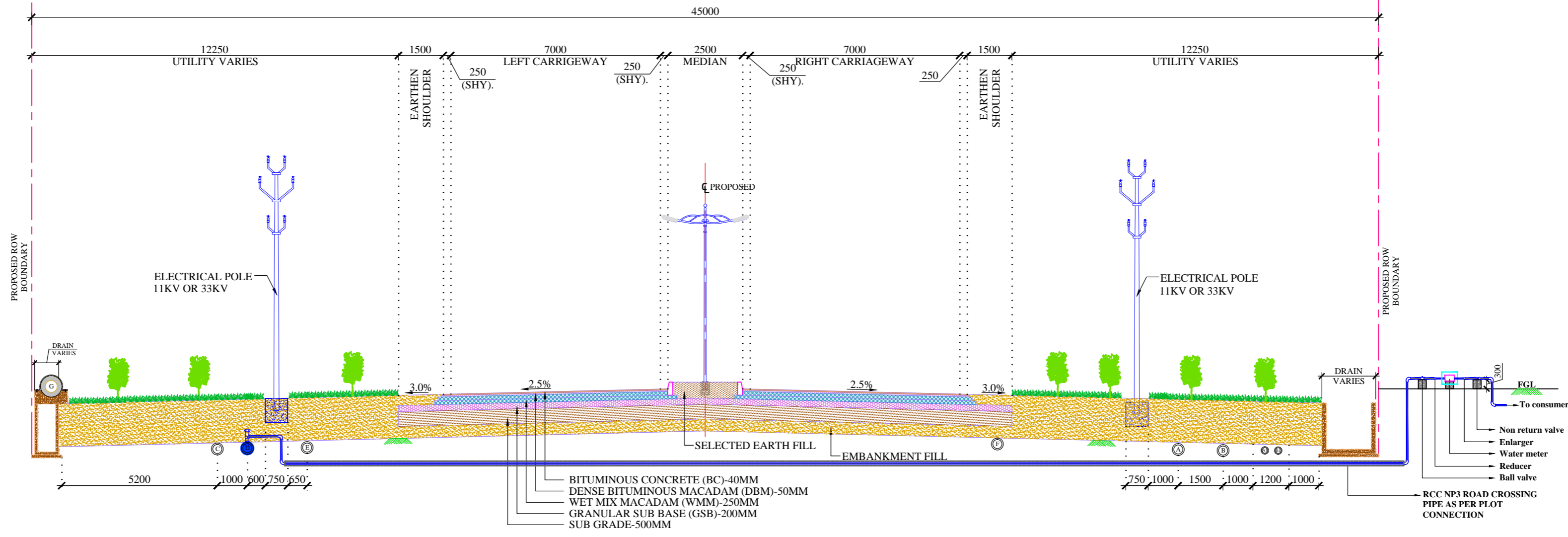
COP: **NTS@A1**

SCALE: **DDW303 R0**

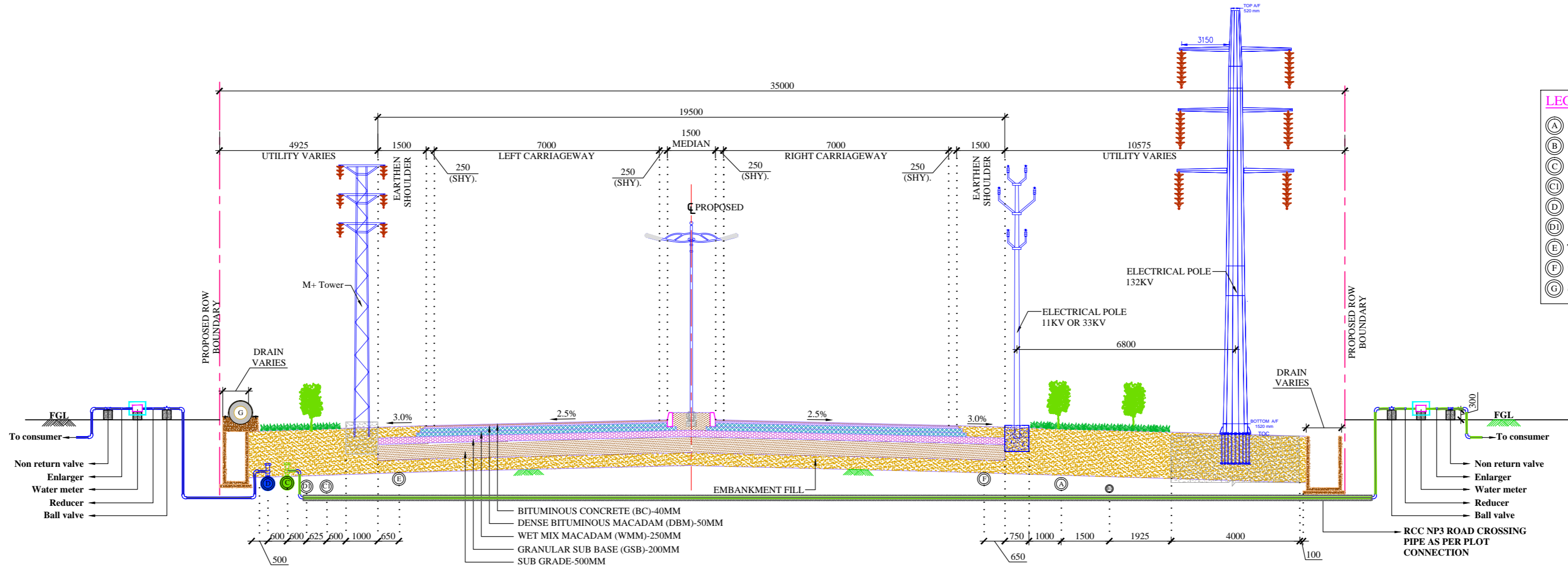
IN CONSORTIUM WITH: **L&T Infrastructure Engineering Ltd.**

**ARTELLA**

plot scale: 1:50mm



**45M ROW 4 LANE DIVIDED CARRIAGEWAY**



**30M-36M WIDE ROAD 4 LANE DIVIDED CARRIAGEWAY**

**FOR TENDER PURPOSE ONLY**

**NOTES:**

- 
- 
- 
- 
- 
- 
- 
- 
- 
- 

REV.	YYMMDD DATE	STATUS	DESCRIPTION	DES.	DRN.	INIT. CHECKED	SIGN. APPROVED

CLIENT: ANDHRA PRADESH INDUSTRIAL INFRASTRUCTURE CORPORATION LIMITED (APIIC)

PROJECT: SETTING UP OF BULK DRUG PARK AT NAKKAPALLI IN ANAKAPALLI DISTRICT, ANDHRA PRADESH

TITLE: TYPICAL PROPERTY CONNECTION DETAILS (SHEET 1 OF 2)

PROJECT NO: C1232704

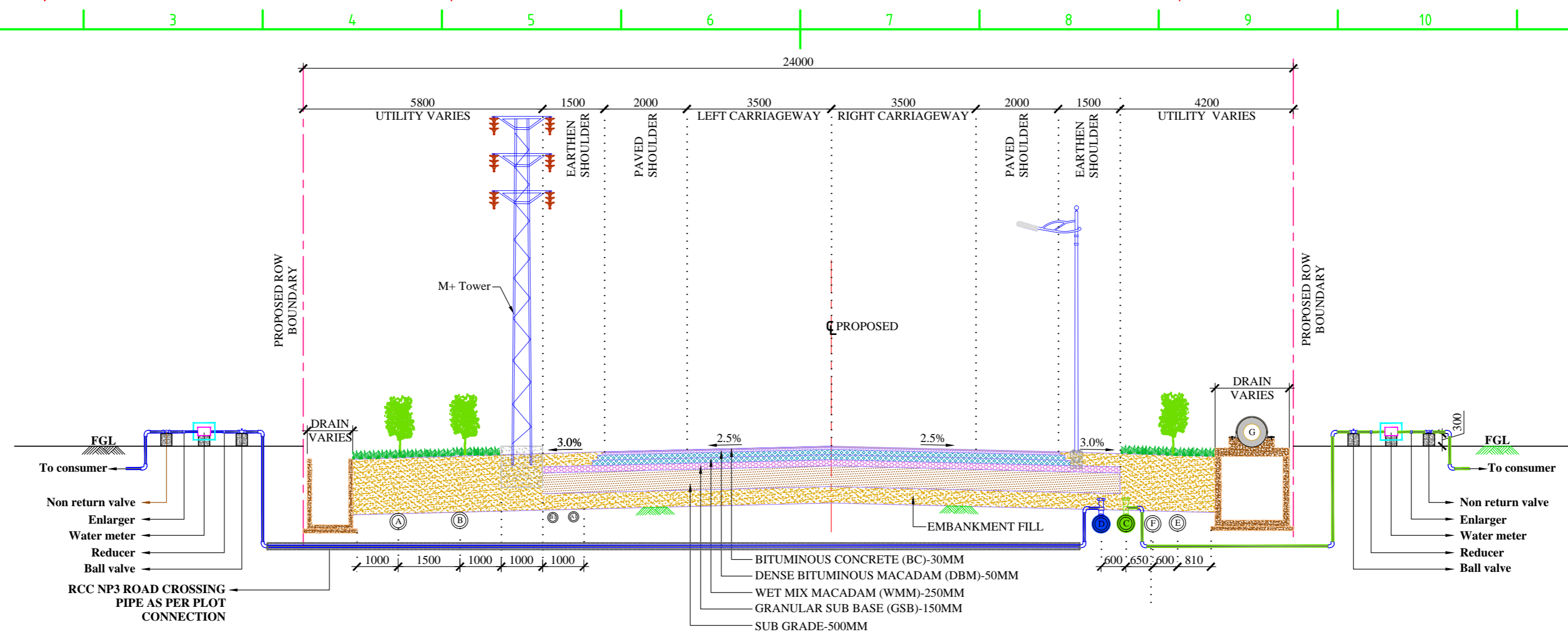
COP: SCALE: NTS@A2

DRAWING NO: DDW304

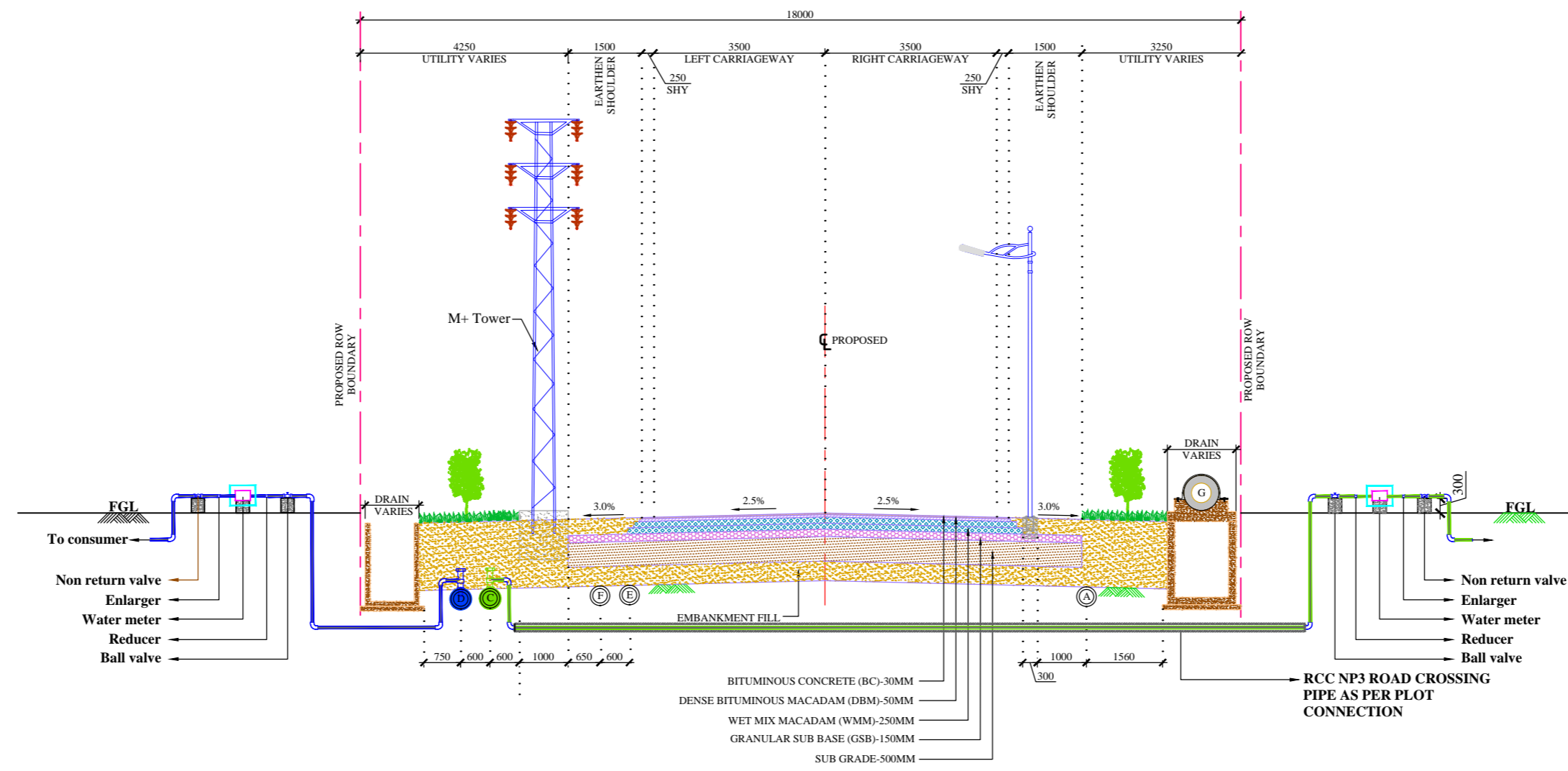
REV: R0

L&T Infrastructure Engineering Ltd. IN CONSORTIUM WITH ARTELIA CONSULTING ENGINEERS LTD.

AUTO PATH ENHANCE FILES PROJECTS\SAPBP\0302022\NAKKAPALLI NEW PROJECT\ARBP WORKING DRAWINGS\FINAL DRAWINGS\1\TYPICAL DRAWINGS\1\TYPICAL PROPERTY CONNECTION DETAILS- BDP.DWG



**24M WIDE ROAD 2 LANE DIVIDED CARRIAGEWAY**



**18M-22M WIDE ROAD 2 LANE DIVIDED CARRIAGEWAY**

**FOR TENDER PURPOSE ONLY**

**NOTES:**

REV.	YYMMDD DATE	STATUS	DESCRIPTION	DES.	DRN.	INIT. CHECKED	SIGN. APPROVED	INIT. APPROVED	SIGN.		
<b>REVISIONS</b> STATUS CODES 1: PRELIMINARY 2: FOR APPROVAL 3: GOOD FOR CONSTRUCTION 4: .....											
<b>DRAWING NO.</b>		<b>TITLE</b>		<b>REVISIONS</b>							
TBA		REFERENCE DRAWINGS									

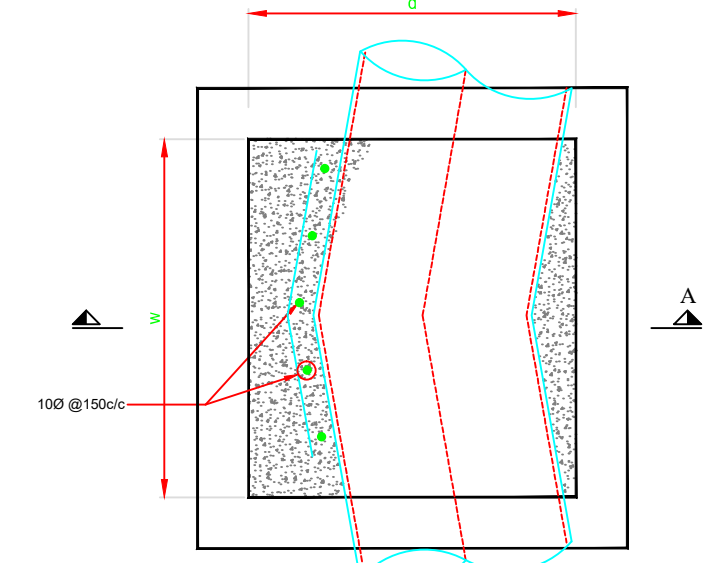
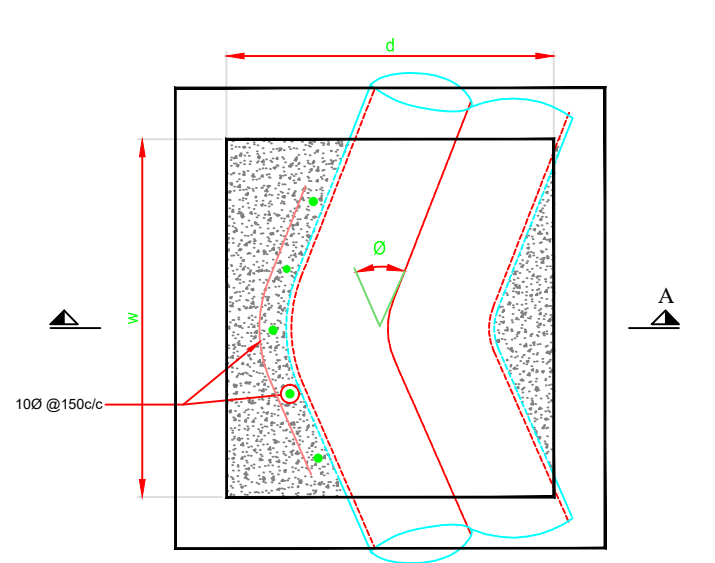
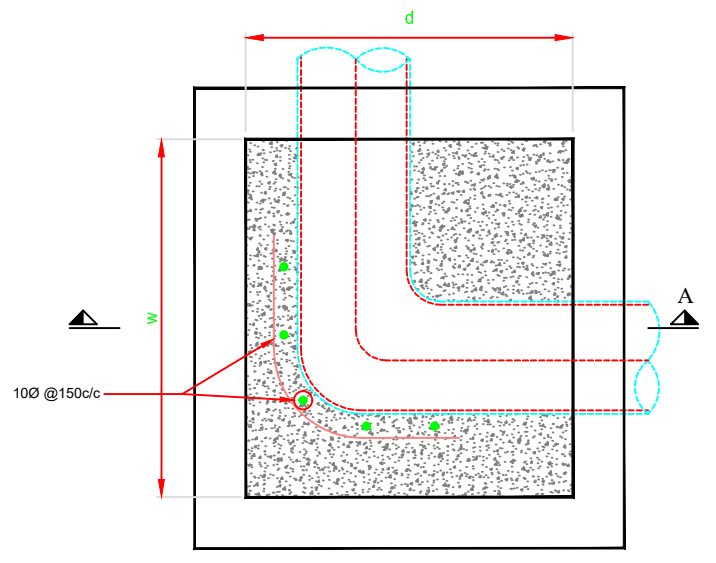
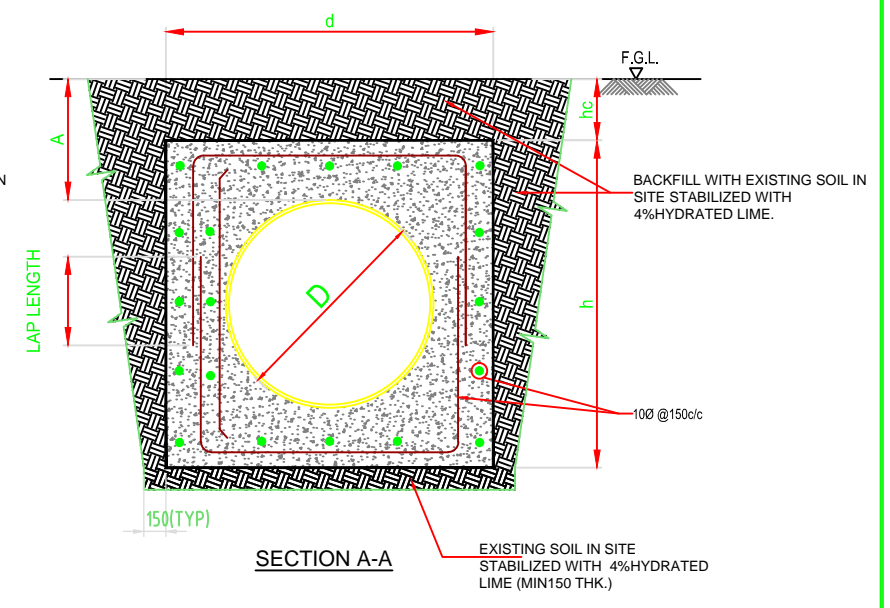
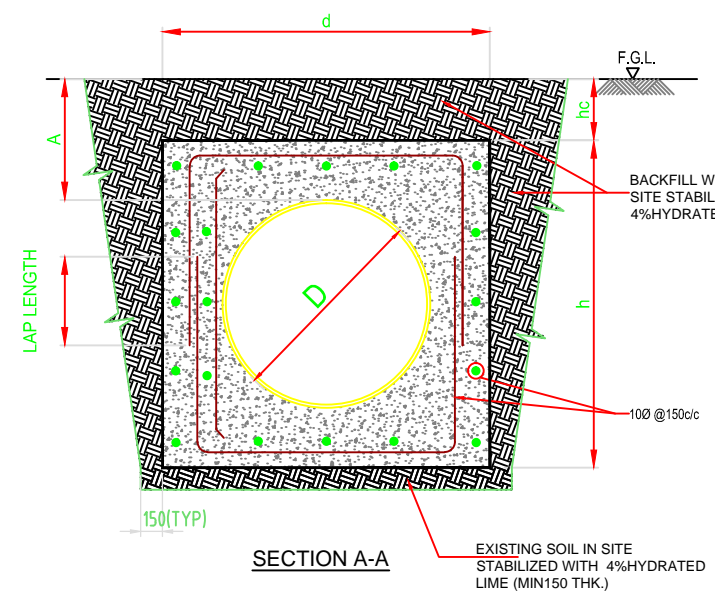
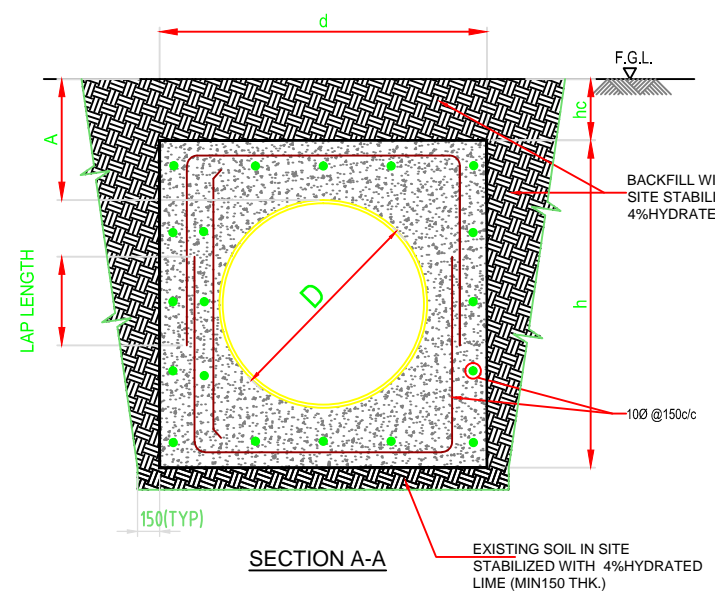
<b>CLIENT:</b> ANDHRA PRADESH INDUSTRIAL INFRASTRUCTURE CORPORATION LIMITED (APIIC)			
<b>PROJECT:</b> SETTING UP OF BULK DRUG PARK AT NAKKAPALLI IN ANAKAPALLI DISTRICT, ANDHRA PRADESH			
<b>TITLE:</b> TYPICAL PROPERTY CONNECTION DETAILS (SHEET 2 OF 2)			<b>PROJECT NO:</b> C1232704
			<b>COP:</b> SCALE: NTS@A2
<b>DRAWING NO:</b> DDW304			<b>REV:</b> R0

AUTO PATH: E:\MANI FILES\PROJECTS\SAPBP\101022\2NAKAPALLI NEW PROJECT\APP WORKING DRAWINGS\101022\DRAWINGS\FINAL DRAWINGS\101022\WORKING FILE EBP\CAD DRAWINGS\101022\TYPICAL PROPERTY CONNECTION DETAILS- EBP.DWG

plot scale 50mm



AUTO PATH: E:\MAMI FILES\PROJECTS\APBDDP\_03102023\NAKKAPALLI NEW PROJECT\APBDDP WORKING DRAWINGS\30102023 DRAWINGS\FINAL DRAWINGS\1.POTABLE DRAWINGS\6 THRUST BLOCK DETAILS-APBDDP.DWG



22.5 Degree bends	L	B	D
110 mm dia.	0.50	0.50	0.40
140 mm dia.	0.60	0.55	0.45
160 mm dia.	0.70	0.60	0.50
200 mm dia.	0.80	0.65	0.60
250 mm dia.	0.90	0.70	0.80
300 mm dia.	1.00	0.75	0.85
350 mm dia.	1.20	0.80	1.00
400 mm dia.	1.20	0.80	1.00

45 Degree bends	L	B	D
110 mm dia.	0.80	0.55	0.50
160 mm dia.	0.90	0.65	0.75
200 mm dia.	1.20	0.75	0.85
250 mm dia.	1.40	0.85	1.00
300 mm dia.	1.50	0.90	1.20
350 mm dia.	1.80	1.00	1.40
400 mm dia.	1.80	1.00	1.40

90 Degree bends	L	B	D
150 mm dia.	0.80	0.55	0.50
200 mm dia.	1.20	0.75	0.85
250 mm dia.	1.40	0.85	1.00
300 mm dia.	1.50	0.90	1.10
350 mm dia.	1.50	0.90	1.10
450 mm dia.	1.80	1.00	1.40
500 mm dia.	2.00	1.20	1.50

**FOR TENDER PURPOSE ONLY**

This drawing is the property of L&T Infrastructure Engineering Ltd. and must not be passed on to any person or body not authorised by us to receive it nor be copied or otherwise made use of either in full or in part by such person or body without our prior permission in writing.

PATH: REFER BOTTOM LEFT CORNER OF THE DRAWING

**PROJECT:** SETTING UP OF BULK DRUG PARK AT NAKKAPALLI IN ANAKAPALLI DISTRICT, ANDHRA PRADESH

**TITLE:** THRUST BLOCK DETAILS



**L&T Infrastructure Engineering Ltd.**

IN CONSORTIUM WITH:



**PROJECT NO:** C1232704

**DATE:**

**MADE:**

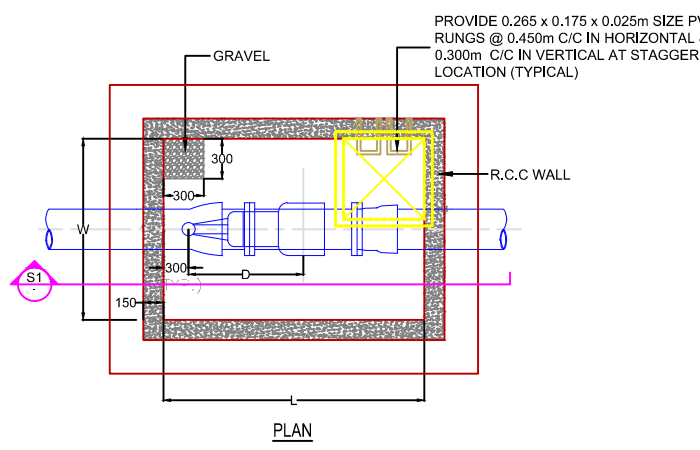
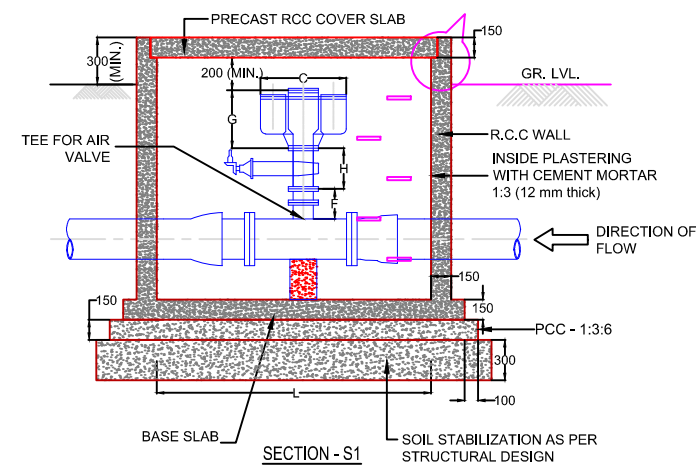
**FIGURE NO:** DDW305 **REV:** R0

AUTO PATH: E:\MAMI FILES\PROJECTS\APBDDP\_03102023\NAKKAPALLI NEW PROJECT\APBDDP - WORKING DRAWINGS\30102023 DRAWINGS\FINAL DRAWINGS\CAD DRAWINGS\1.POTABLE DRAWINGS\7 VALVE CHAMBER DETAILS - APBDDP.DWG

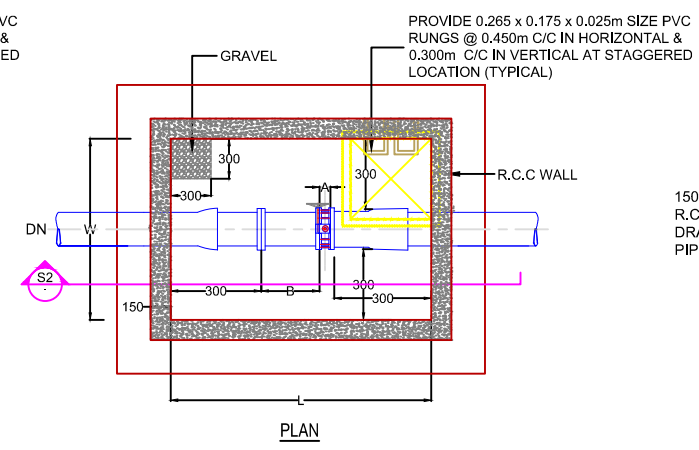
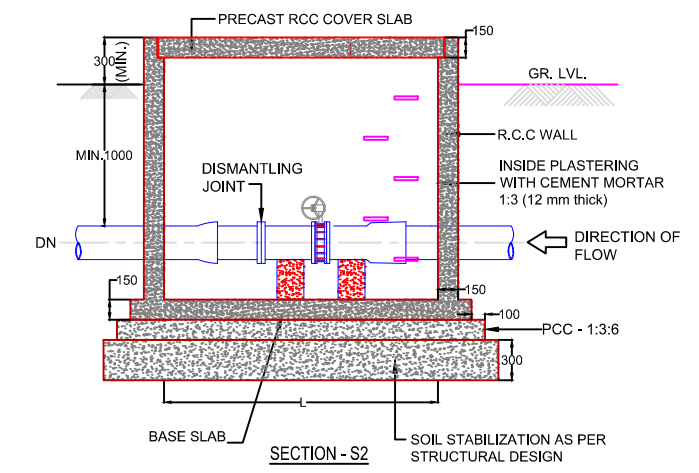
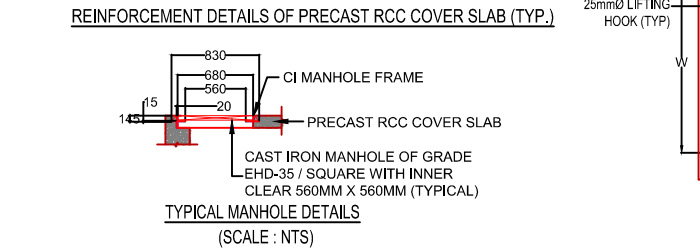
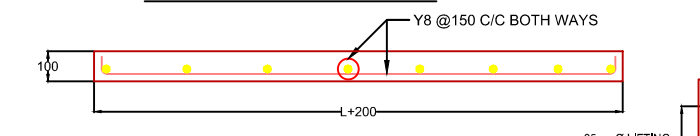
NOMINAL PIPE DIA (mm)	AIR VALVE SIZE (mm)	DIMENSIONS IN mm.					LENGTH (mm) L	WIDTH (mm) W	DEPTH (mm) D
		C	D	F	G	H			
Up to 150	50	442	400	405	407	178	1300	1200	1650
150 to 200	50	442	400	435	407	178	1200	1200	1500
250	80	504	475	465	431	203	1300	1200	1550
300 to 350	80	504	475	500	431	203	1300	1300	1600
400 to 500	100	504	475	500	431	203	1300	1300	1600

NOMINAL PIPE DIA (mm)	BUTTERFLY VALVE SIZE (mm)	DIMENSIONS IN mm.		LENGTH (mm) L	WIDTH (mm) W	DEPTH (mm) D
		A	B			
Up to 150	150	140	300	1300	1200	1650
150 to 200	200	152	300	1200	1200	1500
250	250	165	300	1300	1200	1550
300 to 350	300	178	300	1300	1300	1600
400 to 500	400	178	300	1300	1300	1600

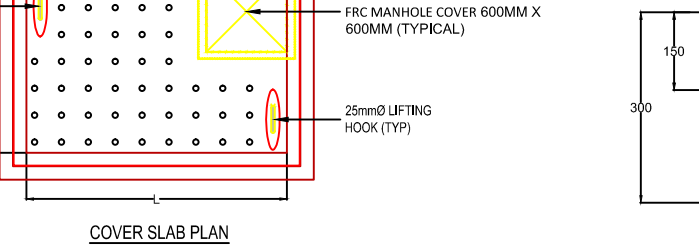
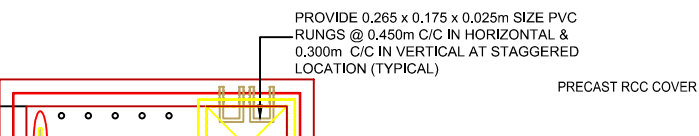
NOMINAL PIPE DIA (mm)	SCOUR VALVE SIZE (mm)	DIMENSIONS IN mm.				LENGTH (mm) L	WIDTH (mm) W	DEPTH (mm) D
		A	B	C	D			
Up to 150	80	200	890	300	203	1300	1200	1650
150 to 200	100	220	935	300	229	1200	1200	1500
250	125	250	960	300	254	1300	1200	1550
300 to 350	150	285	960	300	267	1300	1300	1600
400 to 500	150	285	960	300	267	1300	1300	1600



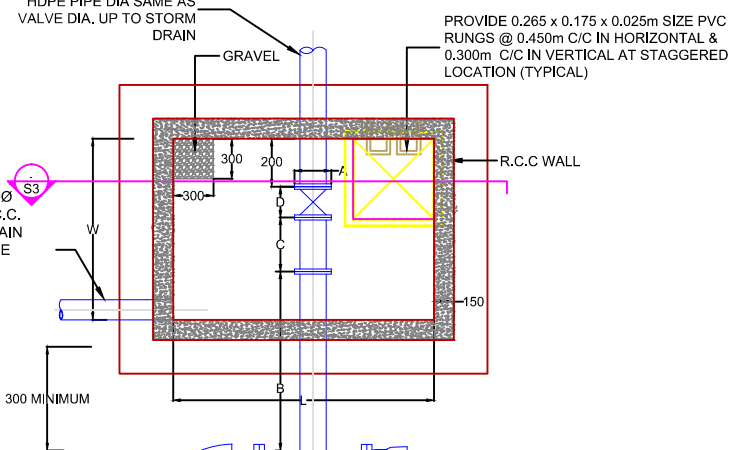
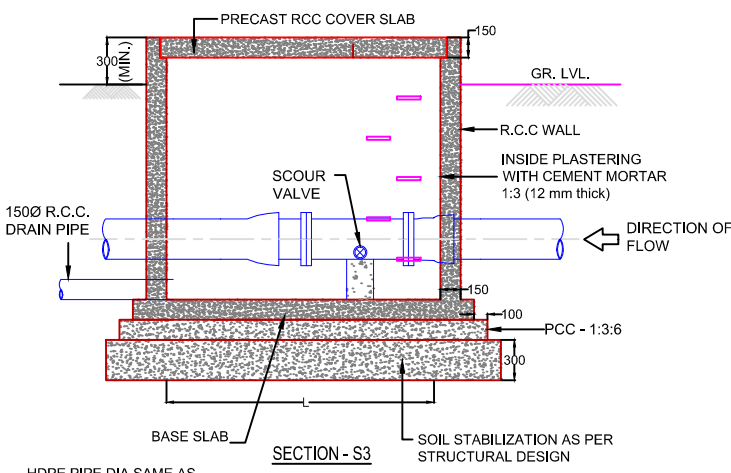
VALVE CHAMBER FOR AIR VALVE WITH ISOLATING SLUISE VALVE



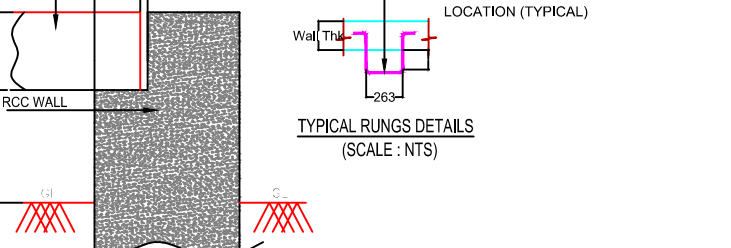
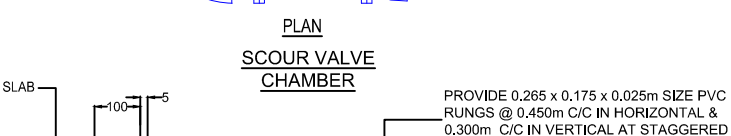
BUTTERFLY VALVE CHAMBER



NOTE: PERFORATED SLAB TO BE CONSIDERED FOR AIR VALVE CHAMBER ONLY. FOR BUTTERFLY VALVE AND SCOUR VALVE, PERFORATION IS NOT REQUIRED



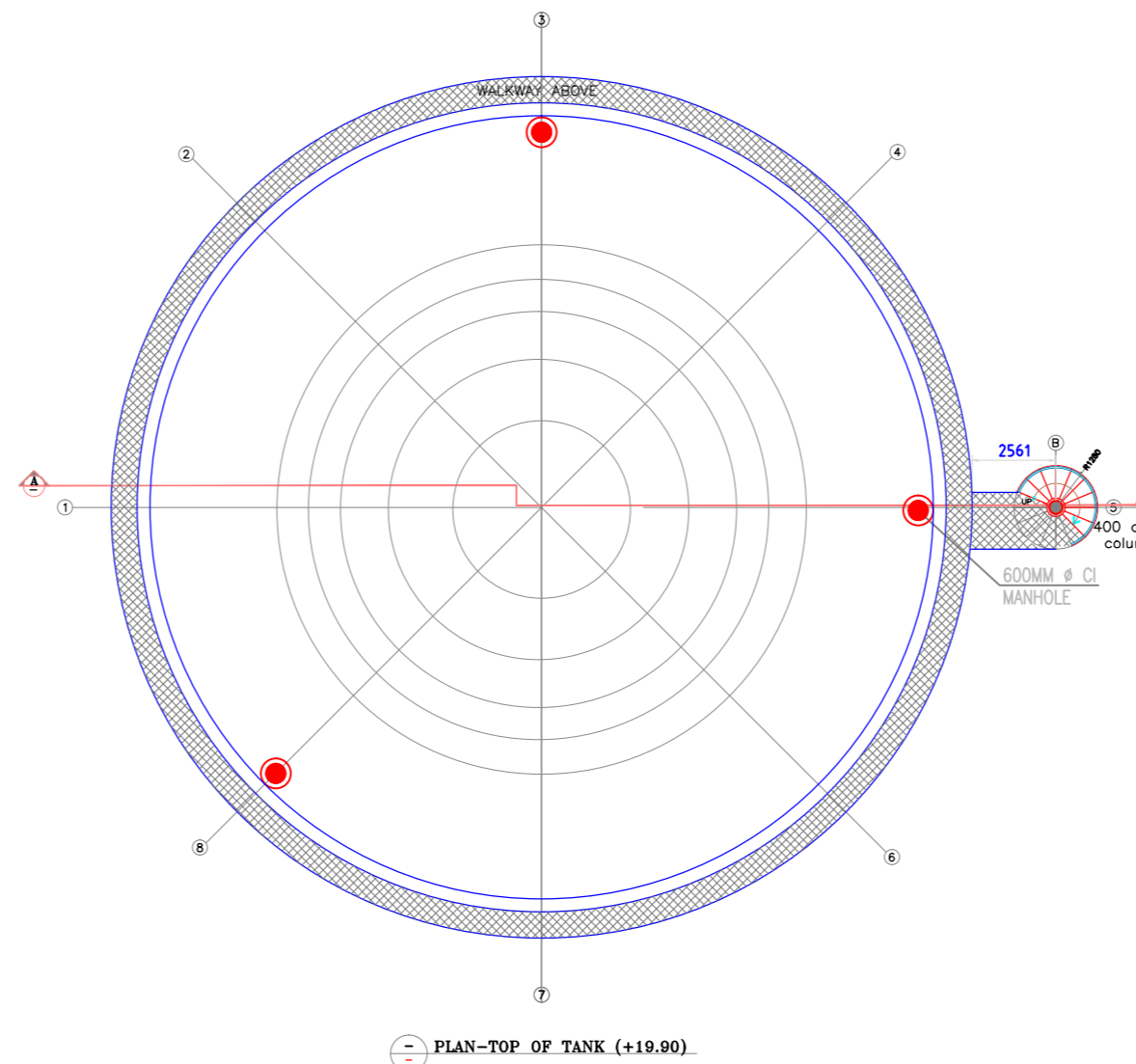
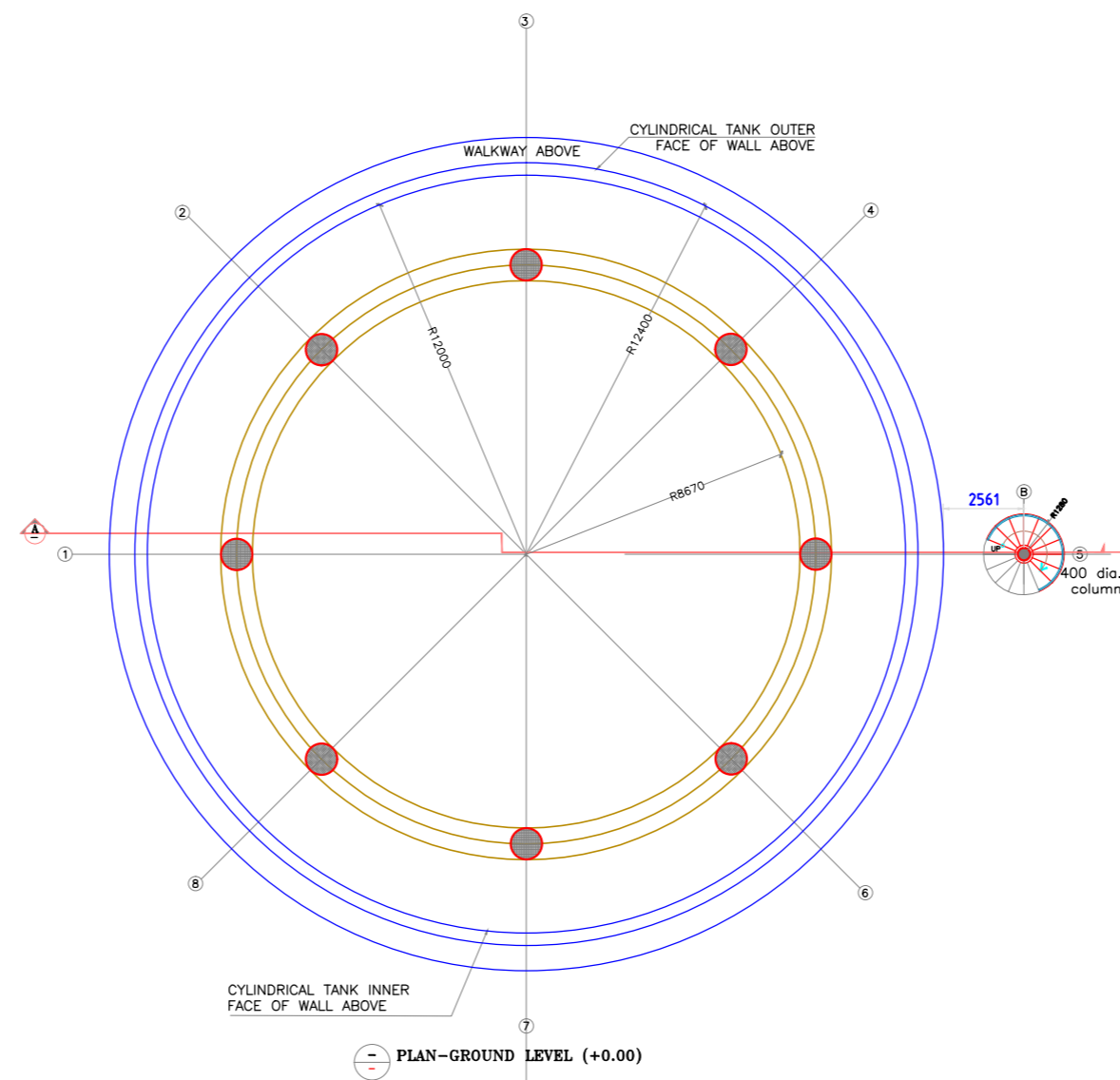
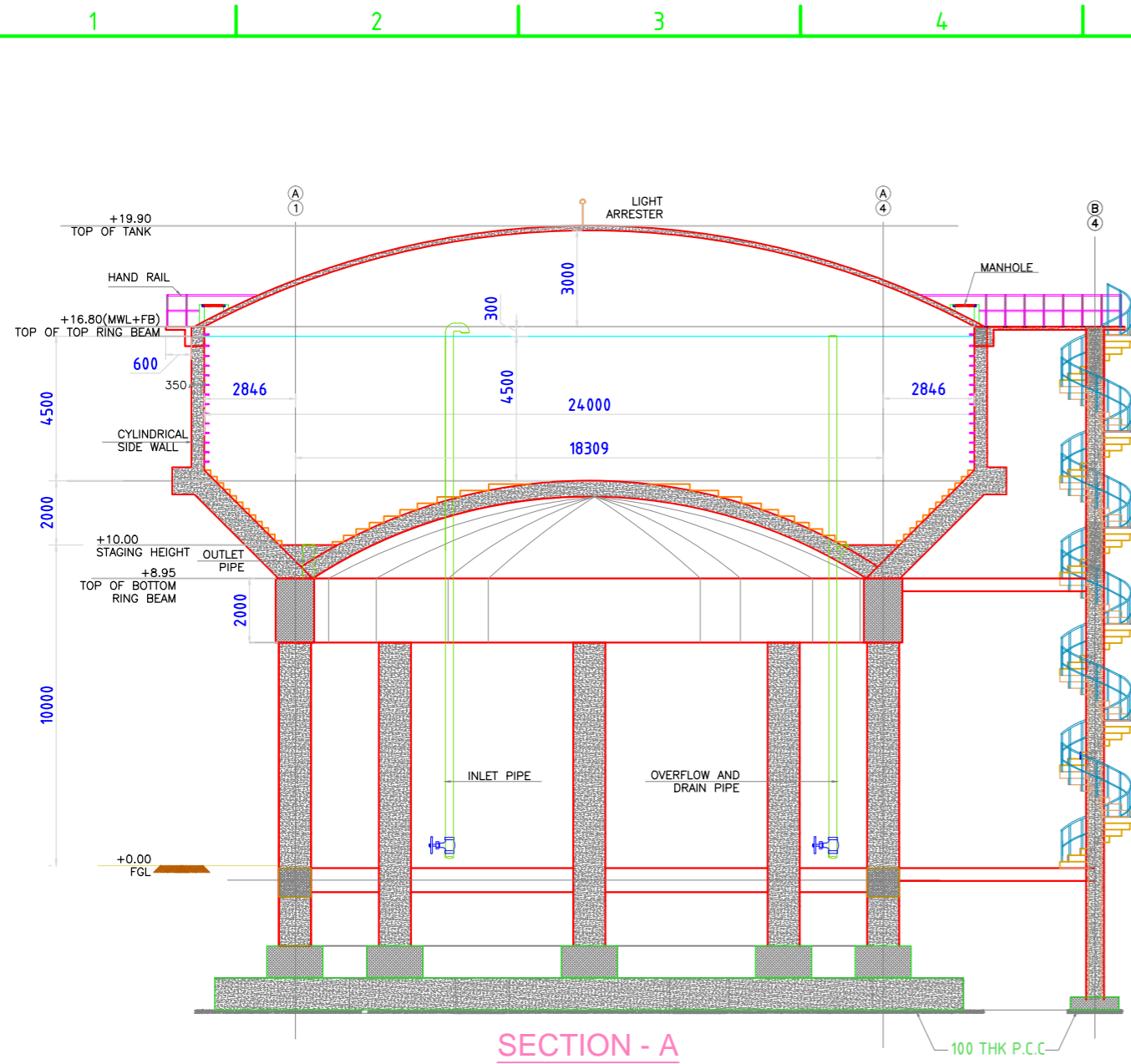
SCOUR VALVE CHAMBER



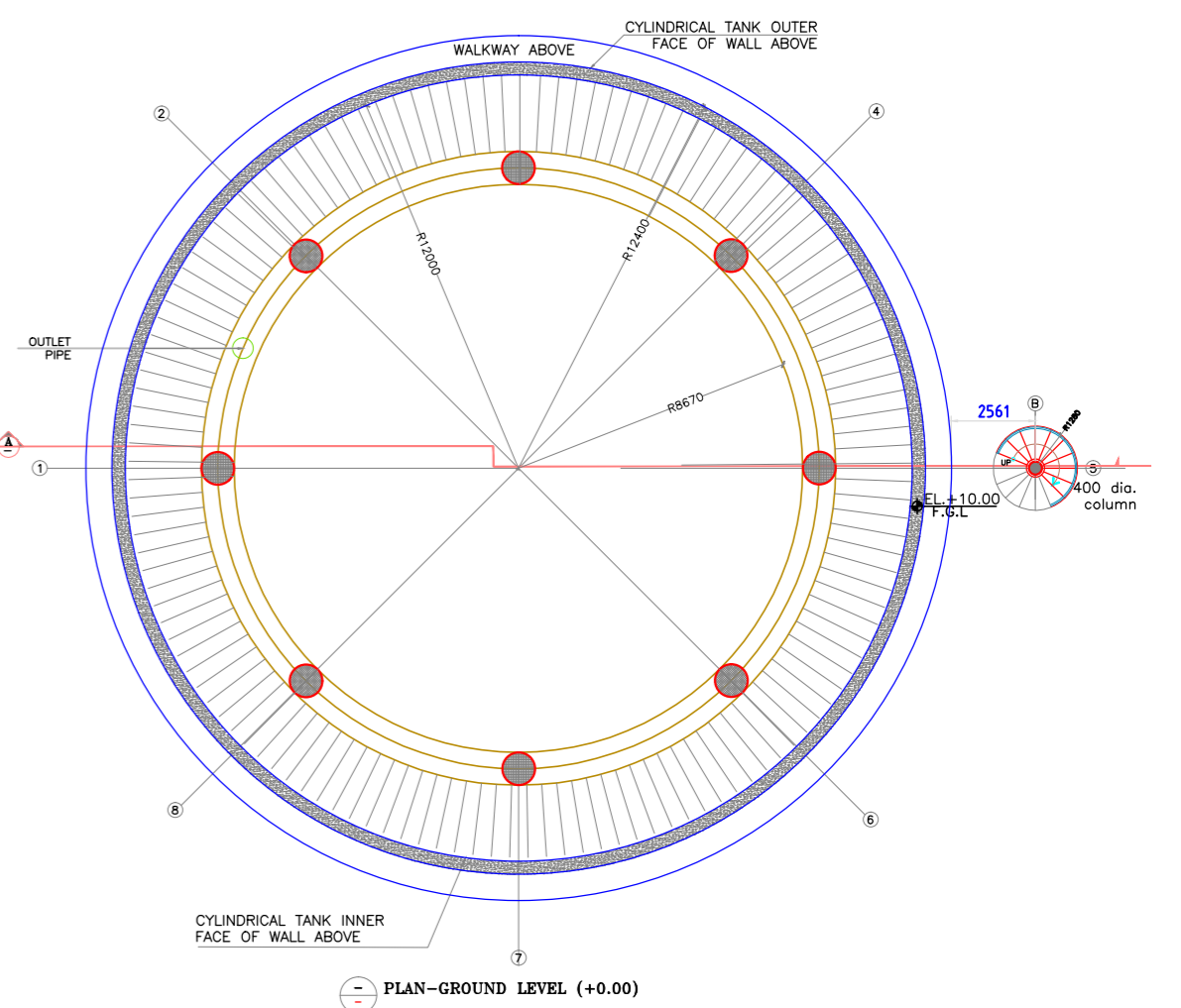
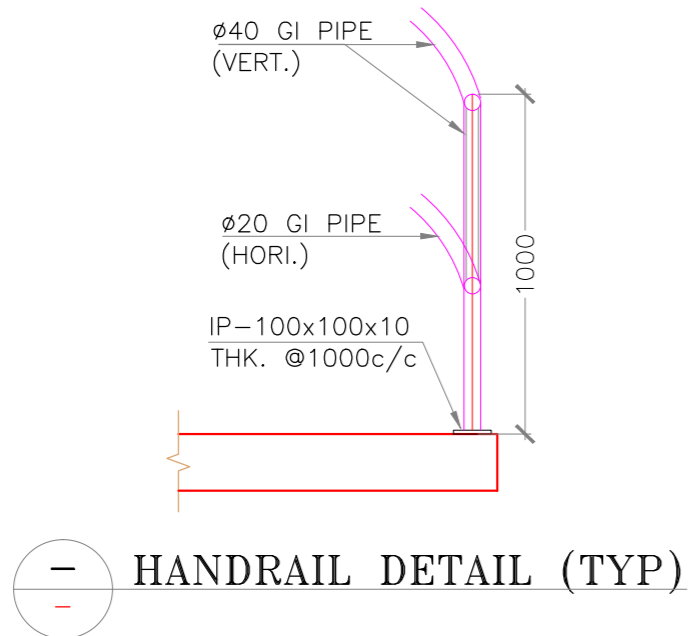
NOTE: PERFORATED SLAB TO BE CONSIDERED FOR AIR VALVE CHAMBER ONLY. FOR BUTTERFLY VALVE AND SCOUR VALVE, PERFORATION IS NOT REQUIRED

**FOR TENDER PURPOSE ONLY**

This drawing is the property of L&T Infrastructure Engineering Ltd. and must not be passed on to any person or body not authorised by us to receive it nor be copied or otherwise made use of either in full or in part by such person or body without our prior permission in writing. PATH: REFER BOTTOM LEFT CORNER OF THE DRAWING	PROJECT: SETTING UP OF BULK DRUG PARK AT NAKKAPALLI IN ANAKAPALLI DISTRICT, ANDHRA PRADESH	PROJECT NO: C1232704
	TITLE: TYPICAL VALVE CHAMBER DETAILS	DATE:
IN CONSORTIUM WITH:	FIGURE NO: DDW306	REV: R0



- NOTES:-
1. GRADE OF CONCRETE IS M30, GRADE OF STEEL REINF. IS FE 500
  2. CLEAR COVER FOR RCC MEMBERS, FOR DOMES 20 mm, WALLS 25 mm, BEAMS 30 mm, COLUMNS 40 mm, RAFT SLAB 40 mm, RAFT BEAM 60 mm.
  3. PROVIDE SUITABLE STEEL CHAIRS UNDER THE TOP MESH OF REINF. TO SEPARATE THE TWO LAYERS OF REINF. PROVIDED AT TOP & BOTTOM OF DOMES.
  4. PROVIDE HORIZONTAL LINKS @ 1 MET INTERVALS IN WALLS TO SEPARATE THE TWO LAYERS OF REINF. PROVIDED IN OUTER & INNER FACES OF WALL.
  5. PROVIDE SLEEVES FOR ALL PIPE CONNECTIONS BEFORE CONCRETING.
  6. SAFE BEARING CAPACITY OF FOUNDATION SOILS AT 3 MET. DEPTH IS CONSIDERED AS 150 kN/sqm
  7. WHICH SHALL BE VERIFIED BEFORE EXECUTION AND IF FOUND LESS THAN CONSIDERED REVISE THE SECTION OF RAFT FOOTING ACCORDINGLY.
  8. PROVIDE A LAYER OF LEVELING COURSE IN CC 1:3:6 (M10 GRADE) FOR 150 mm THICK BELOW RAFT SLAB.
  9. CONTINUOUS CURING SHALL BE DONE FOR AT LEAST 15 DAYS.
  10. CONSTRUCTION JOINTS WHERE EVER REQUIRED SHALL BE LEFT IN SIDE WALL AS PER IS 3370 PARTS 1 & 2
  11. AN ALUMINUM LADDER SHALL BE PROVIDED TO REACH THE BOTTOM OF TANK FROM TOP DOME.
  12. ALL ACCESSORIES AS IN GA DRG. LIKE INLET, OUTLET OVER FLOW WASHOUT & VENT PIPES, MANHOLES AND LIGHTENING ARRESTER SHALL BE PROVIDED.



**FOR TENDER PURPOSE ONLY**

NOTES:

REV.	YYMMDD DATE	STATUS	DESCRIPTION	DES.	DRN.	INIT. CHECKED	SIGN. APPROVED	INIT.	SIGN.
REVISIONS									
DRAWING NO. TITLE									
REFERENCE DRAWINGS									
STATUS CODES 1: PRELIMINARY 2: FOR APPROVAL 3: GOOD FOR CONSTRUCTION 4: .....									

CLIENT: ANDHRA PRADESH INDUSTRIAL INFRASTRUCTURE CORPORATION LIMITED (APIIC)

PROJECT: SETTING UP OF BULK DRUG PARK AT NAKKAPALLI IN ANAKAPALLI DISTRICT, ANDHRA PRADESH

TITLE: GENERAL ARRANGEMENT OF 2700KL OHSR-1 (10M STAGING HEIGHT)

PROJECT NO: C1232704

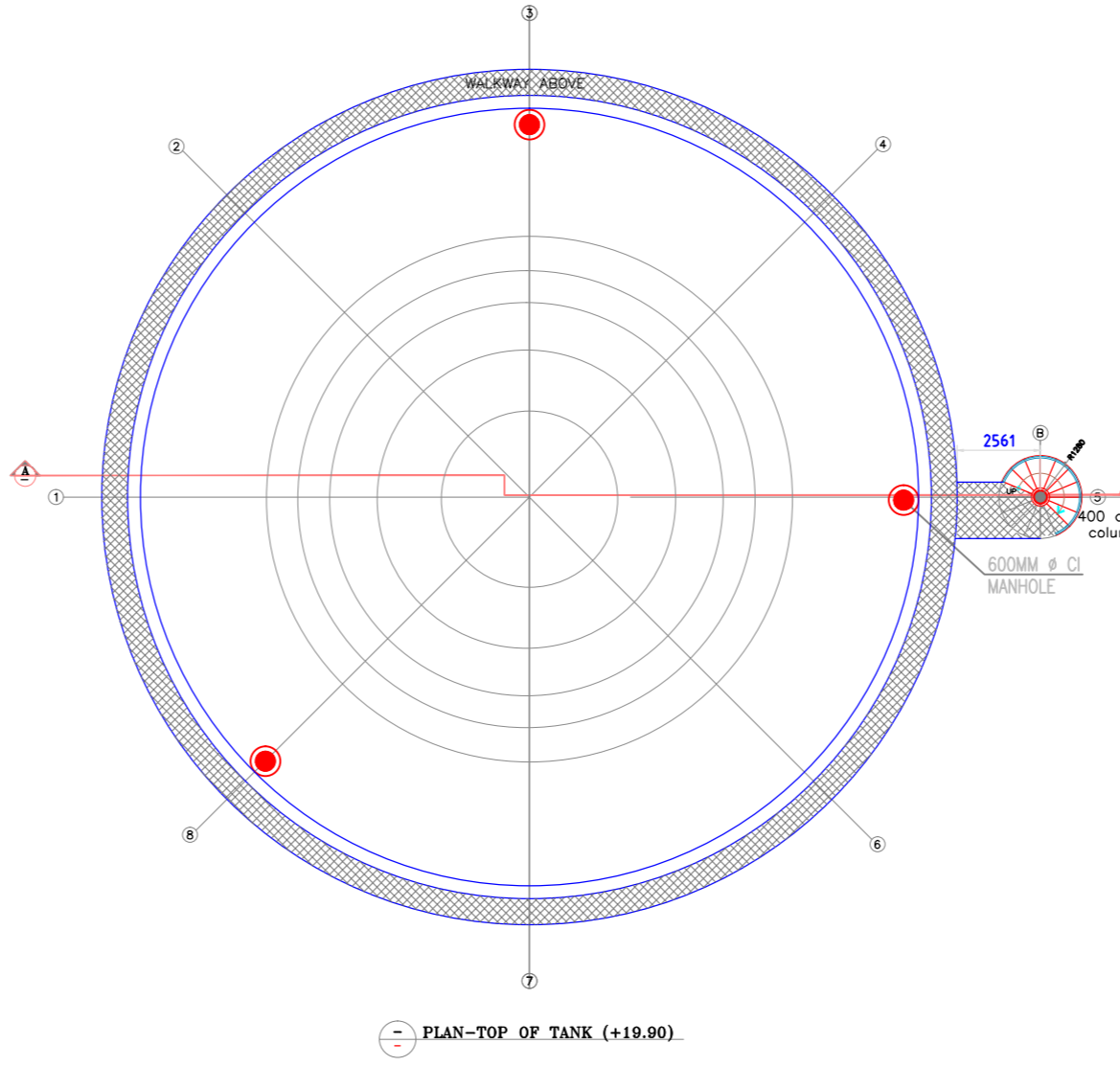
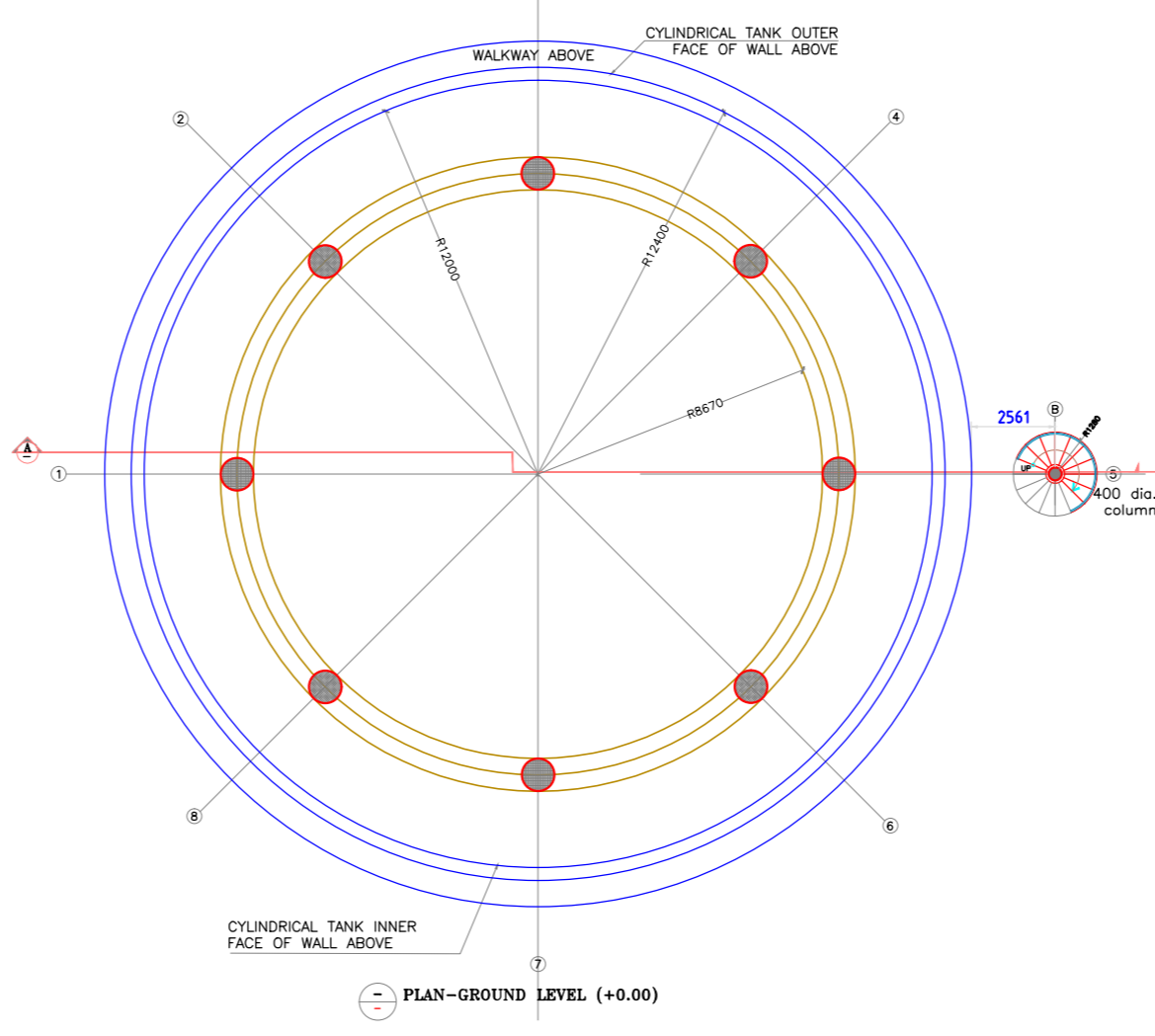
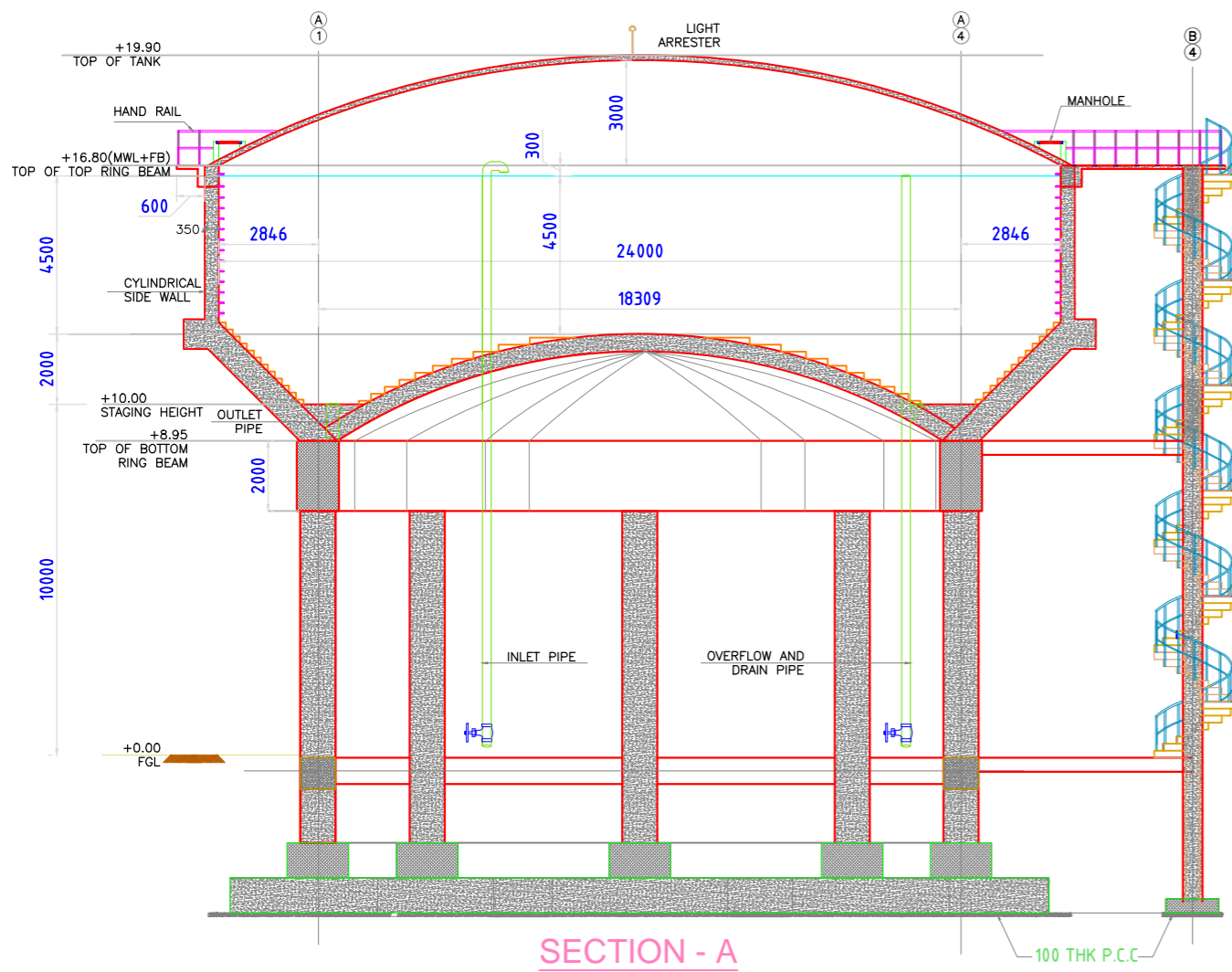
COP: SCALE: NTS@A2

DRAWING NO: DDW307 REV: R0

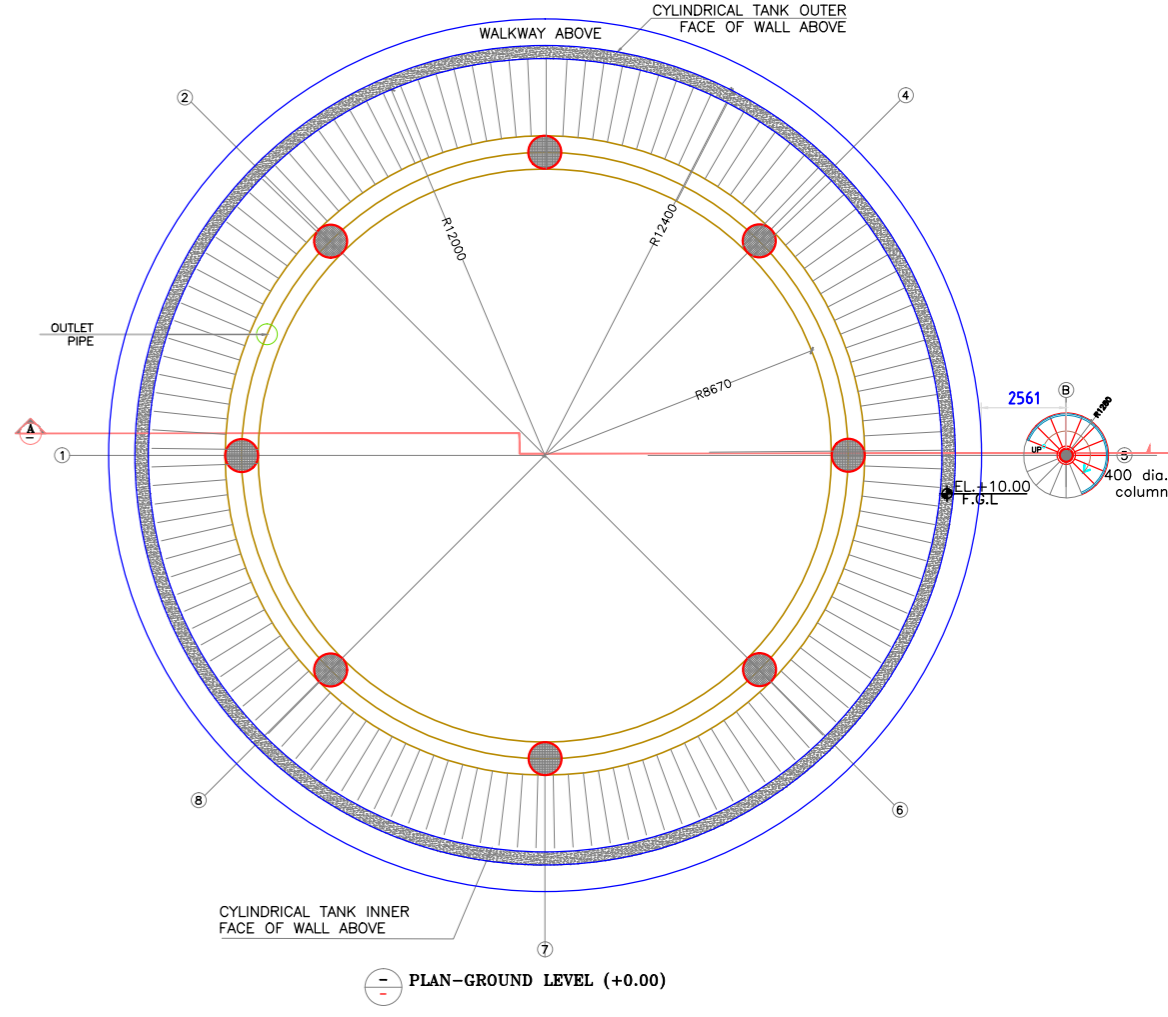
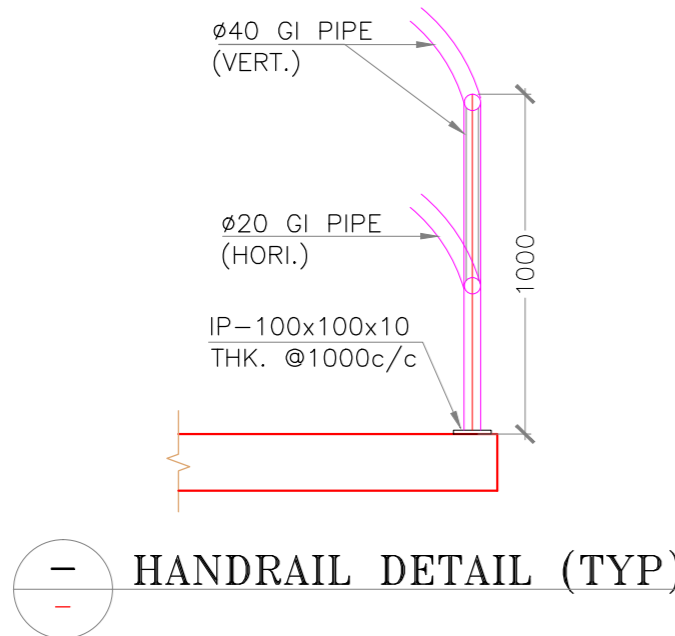
ARTELIA CONSULTING ENGINEERS LTD.

plot scale 50mm

AUTO DATA E:\M\ANI FILES\PROJECTS\SVAPROD\03102023\NANKKAPALLI NEW PROJECT\ARBP WORKING DRAWINGS\31012023 DRAWINGS\FINAL DRAWINGS\1\PTABLE DRAWINGS\1\PTABLE DRAWINGS\1\27000LUM\10M-STAGING



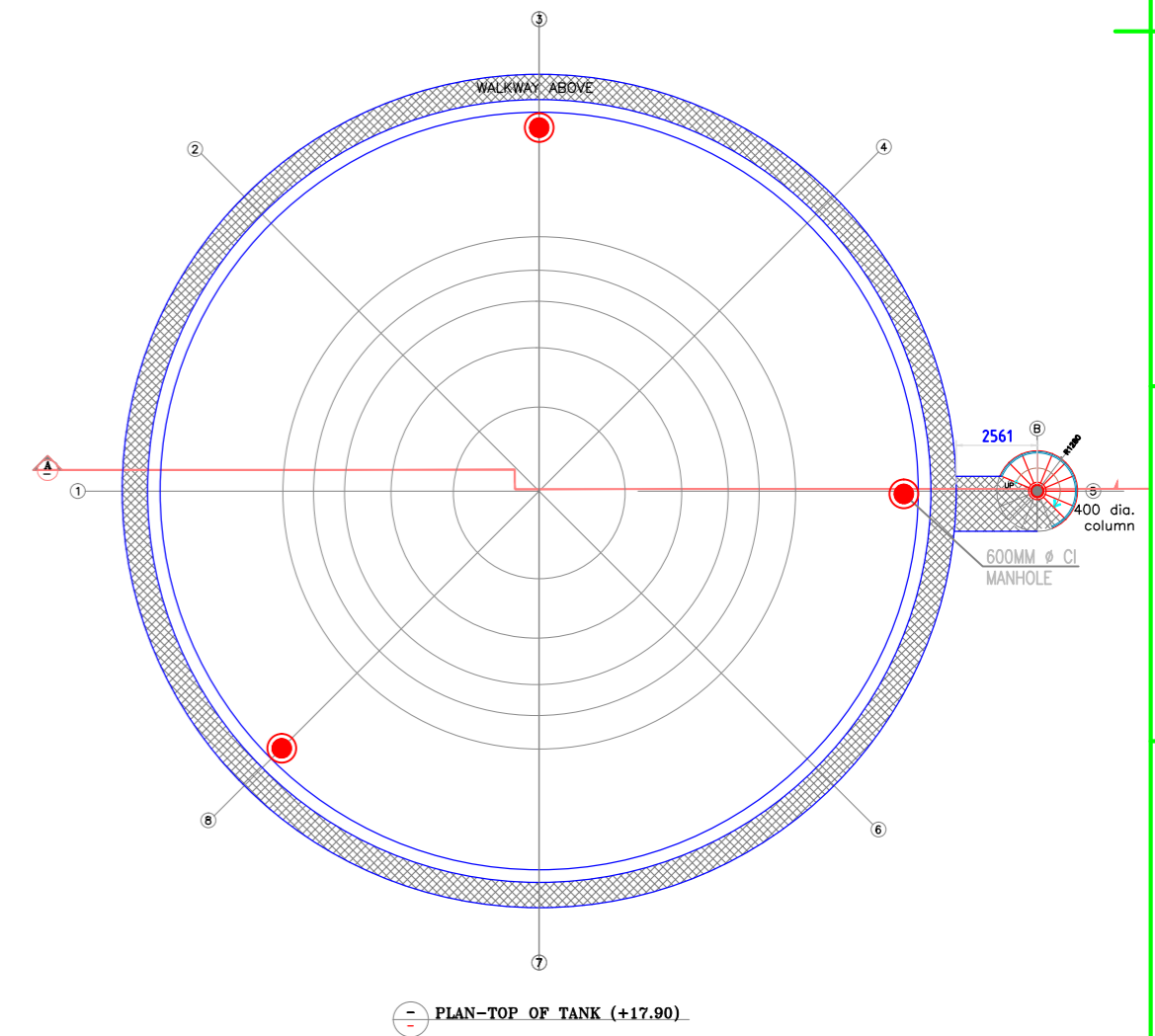
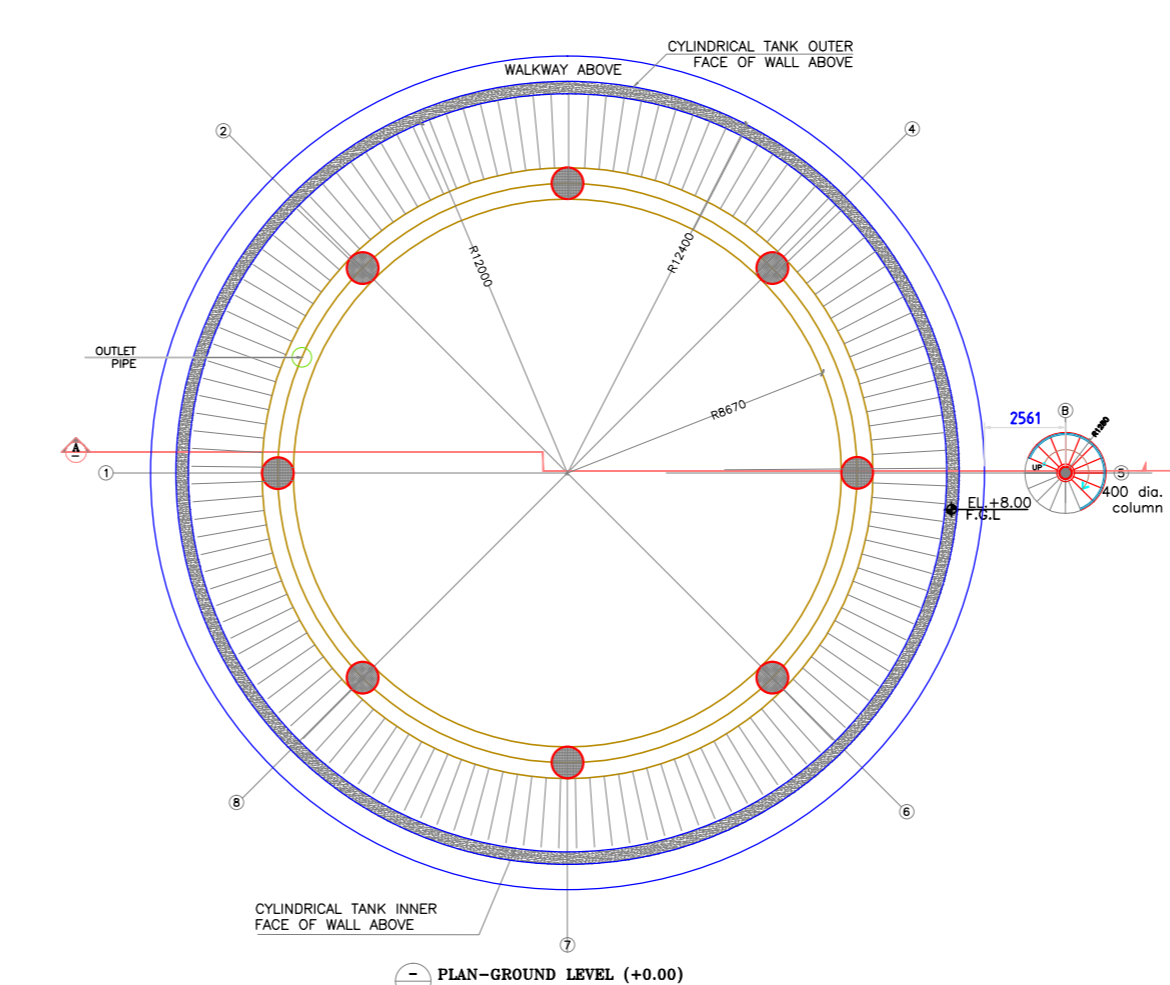
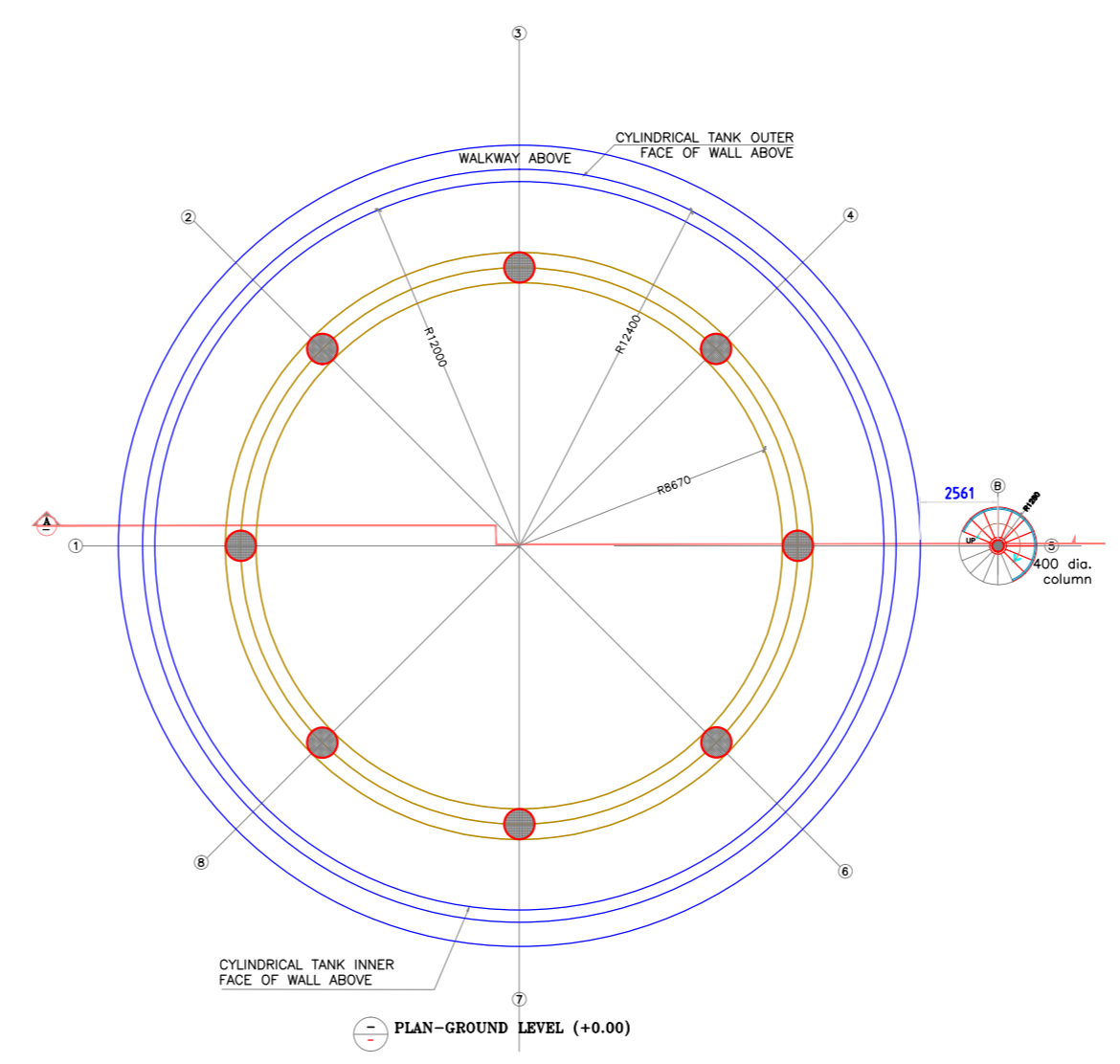
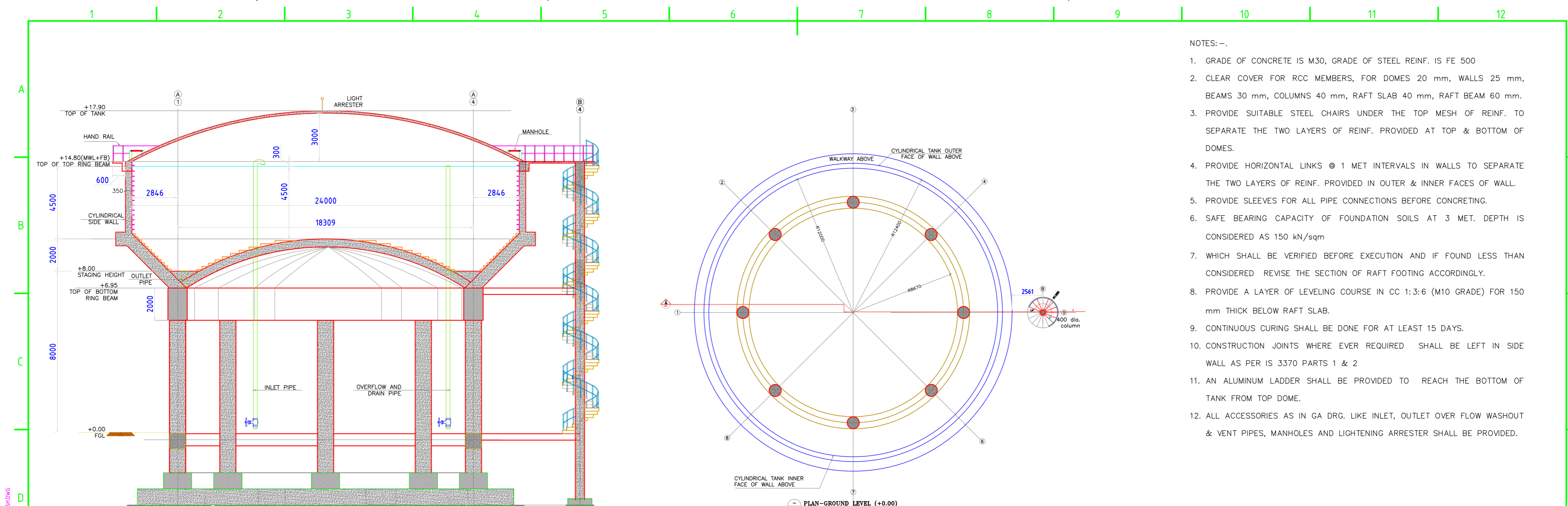
- NOTES: -
- GRADE OF CONCRETE IS M30, GRADE OF STEEL REINF. IS FE 500
  - CLEAR COVER FOR RCC MEMBERS, FOR DOMEs 20 mm, WALLS 25 mm, BEAMS 30 mm, COLUMNs 40 mm, RAFT SLAB 40 mm, RAFT BEAM 60 mm.
  - PROVIDE SUITABLE STEEL CHAIRS UNDER THE TOP MESH OF REINF. TO SEPARATE THE TWO LAYERS OF REINF. PROVIDED AT TOP & BOTTOM OF DOMEs.
  - PROVIDE HORIZONTAL LINKS @ 1 MET INTERVALS IN WALLS TO SEPARATE THE TWO LAYERS OF REINF. PROVIDED IN OUTER & INNER FACES OF WALL.
  - PROVIDE SLEEVES FOR ALL PIPE CONNECTIONS BEFORE CONCRETING.
  - SAFE BEARING CAPACITY OF FOUNDATION SOILS AT 3 MET. DEPTH IS CONSIDERED AS 150 kN/sqm
  - WHICH SHALL BE VERIFIED BEFORE EXECUTION AND IF FOUND LESS THAN CONSIDERED REVISE THE SECTION OF RAFT FOOTING ACCORDINGLY.
  - PROVIDE A LAYER OF LEVELING COURSE IN CC 1:3:6 (M10 GRADE) FOR 150 mm THICK BELOW RAFT SLAB.
  - CONTINUOUS CURING SHALL BE DONE FOR AT LEAST 15 DAYS.
  - CONSTRUCTION JOINTS WHERE EVER REQUIRED SHALL BE LEFT IN SIDE WALL AS PER IS 3370 PARTS 1 & 2
  - AN ALUMINUM LADDER SHALL BE PROVIDED TO REACH THE BOTTOM OF TANK FROM TOP DOME.
  - ALL ACCESSORIES AS IN GA DRG. LIKE INLET, OUTLET OVER FLOW WASHOUT & VENT PIPES, MANHOLES AND LIGHTENING ARRESTER SHALL BE PROVIDED.



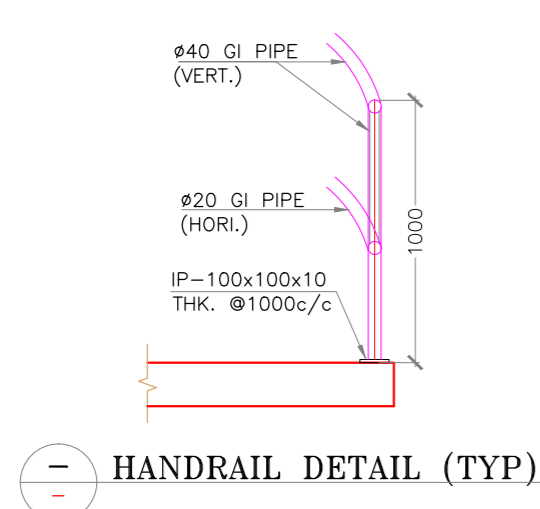
**FOR TENDER PURPOSE ONLY**

NOTES:										CLIENT: ANDHRA PRADESH INDUSTRIAL INFRASTRUCTURE CORPORATION LIMITED (APIIC)							
										PROJECT: SETTING UP OF BULK DRUG PARK AT NAKKAPALLI IN ANAKAPALLI DISTRICT, ANDHRA PRADESH				PROJECT NO: C1232704			
										TITLE: GENERAL ARRANGEMENT OF 2700KL OHSR-2 (10M STAGING HEIGHT)				SCALE: NTS@A2			
										DRAWING NO: DDW308				REV: R0			
DRAWING NO.	TITLE	REV.	YYMMDD DATE	STATUS	DESCRIPTION	DES.	DRN.	INIT. CHECKED	SIGN.	INIT. APPROVED	SIGN.						
REFERENCE DRAWINGS				STATUS CODES: 1: PRELIMINARY 2: FOR APPROVAL 3: GOOD FOR CONSTRUCTION 4: .....													

AUTO DATA E:\M\ANI FILES\PROJECTS\APR\BP\3102023\DRAWINGS\FINAL DRAWINGS\1702023\WORKING FILE\BP\CAD DRAWINGS\1702023\31702023\8M-STAGING



- NOTES: -
- GRADE OF CONCRETE IS M30, GRADE OF STEEL REINF. IS FE 500
  - CLEAR COVER FOR RCC MEMBERS, FOR DOMES 20 mm, WALLS 25 mm, BEAMS 30 mm, COLUMNS 40 mm, RAFT SLAB 40 mm, RAFT BEAM 60 mm.
  - PROVIDE SUITABLE STEEL CHAIRS UNDER THE TOP MESH OF REINF. TO SEPARATE THE TWO LAYERS OF REINF. PROVIDED AT TOP & BOTTOM OF DOMES.
  - PROVIDE HORIZONTAL LINKS @ 1 MET INTERVALS IN WALLS TO SEPARATE THE TWO LAYERS OF REINF. PROVIDED IN OUTER & INNER FACES OF WALL.
  - PROVIDE SLEEVES FOR ALL PIPE CONNECTIONS BEFORE CONCRETING.
  - SAFE BEARING CAPACITY OF FOUNDATION SOILS AT 3 MET. DEPTH IS CONSIDERED AS 150 kN/sqm
  - WHICH SHALL BE VERIFIED BEFORE EXECUTION AND IF FOUND LESS THAN CONSIDERED REVISE THE SECTION OF RAFT FOOTING ACCORDINGLY.
  - PROVIDE A LAYER OF LEVELING COURSE IN CC 1:3:6 (M10 GRADE) FOR 150 mm THICK BELOW RAFT SLAB.
  - CONTINUOUS CURING SHALL BE DONE FOR AT LEAST 15 DAYS.
  - CONSTRUCTION JOINTS WHERE EVER REQUIRED SHALL BE LEFT IN SIDE WALL AS PER IS 3370 PARTS 1 & 2
  - AN ALUMINUM LADDER SHALL BE PROVIDED TO REACH THE BOTTOM OF TANK FROM TOP DOME.
  - ALL ACCESSORIES AS IN GA DRG. LIKE INLET, OUTLET OVER FLOW WASHOUT & VENT PIPES, MANHOLES AND LIGHTENING ARRESTER SHALL BE PROVIDED.



**FOR TENDER PURPOSE ONLY**

NOTES:

REV.	YYMMDD DATE	STATUS	DESCRIPTION	DES.	DRN.	INIT. CHECKED	SIGN. APPROVED	INIT.	SIGN.
REVISIONS									
DRAWING NO. TITLE									
REFERENCE DRAWINGS									
STATUS CODES 1: PRELIMINARY 2: FOR APPROVAL 3: GOOD FOR CONSTRUCTION 4: .....									

CLIENT: ANDHRA PRADESH INDUSTRIAL INFRASTRUCTURE CORPORATION LIMITED (APIIC)

PROJECT: SETTING UP OF BULK DRUG PARK AT NAKKAPALLI IN ANAKAPALLI DISTRICT, ANDHRA PRADESH

TITLE: GENERAL ARRANGEMENT OF 2700KL OHSR-3 (8M STAGING HEIGHT)

PROJECT NO: C1232704

COP: SCALE: NTS@A2

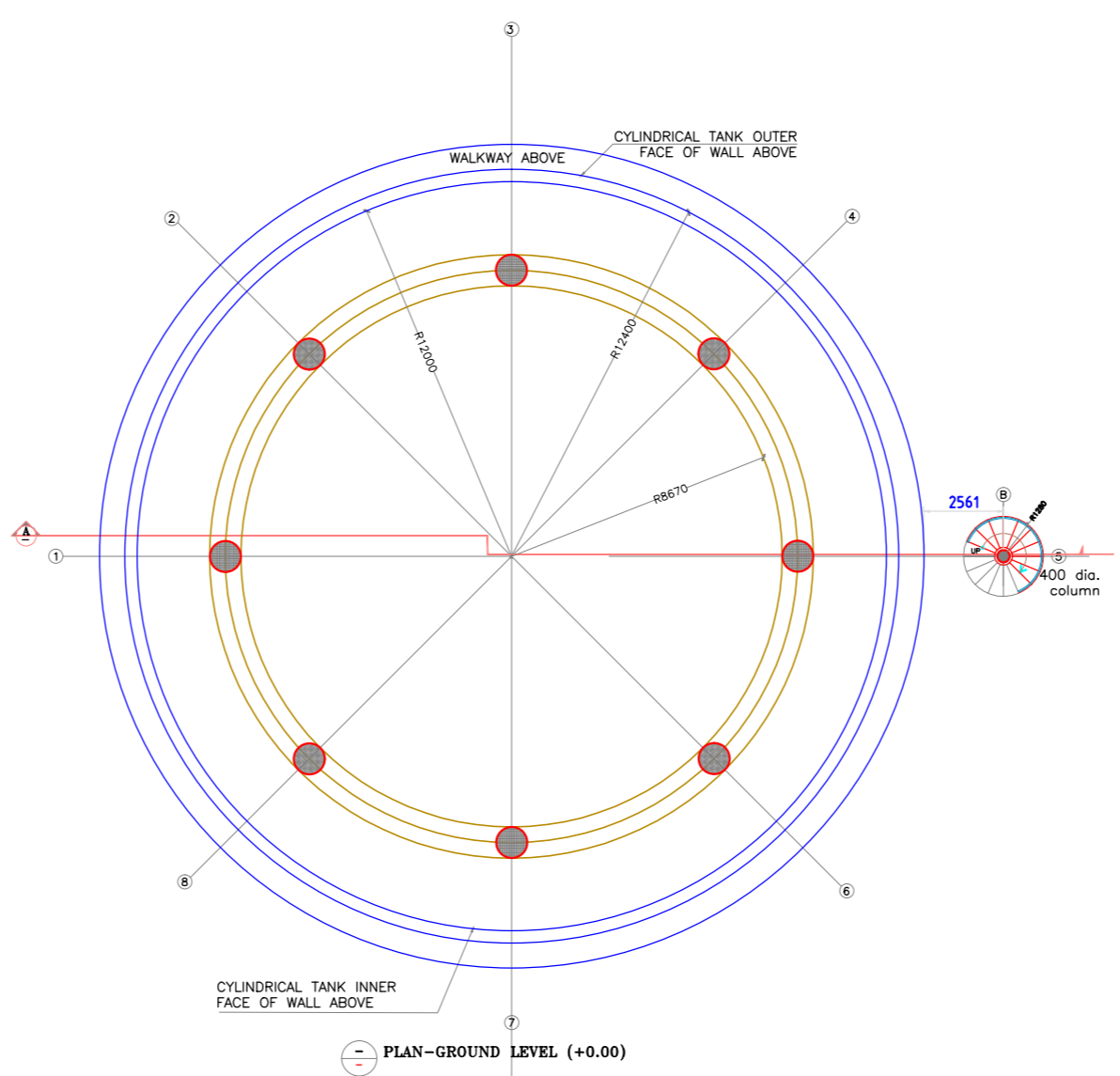
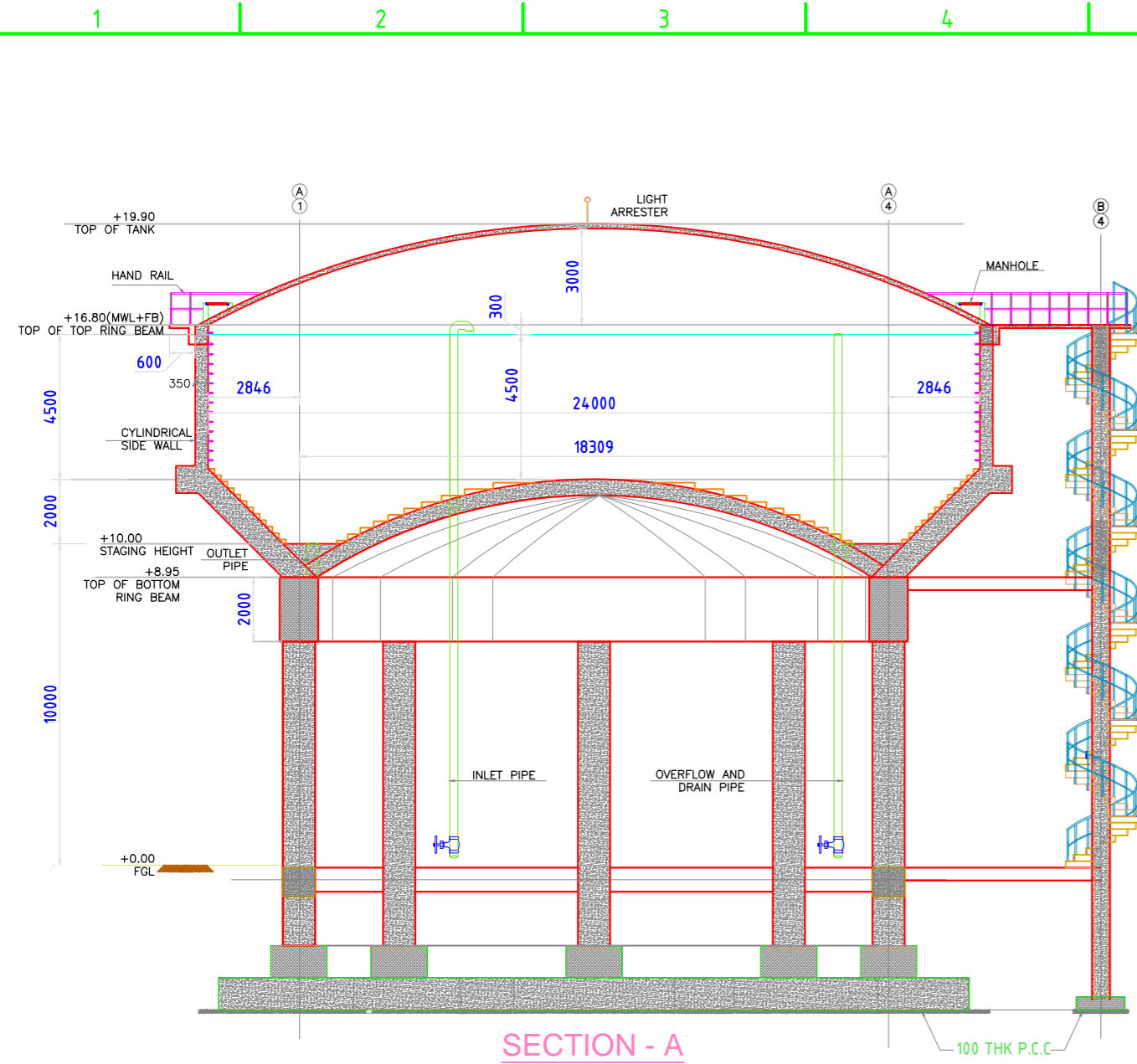
DRAWING NO: DDW309

REV: R0

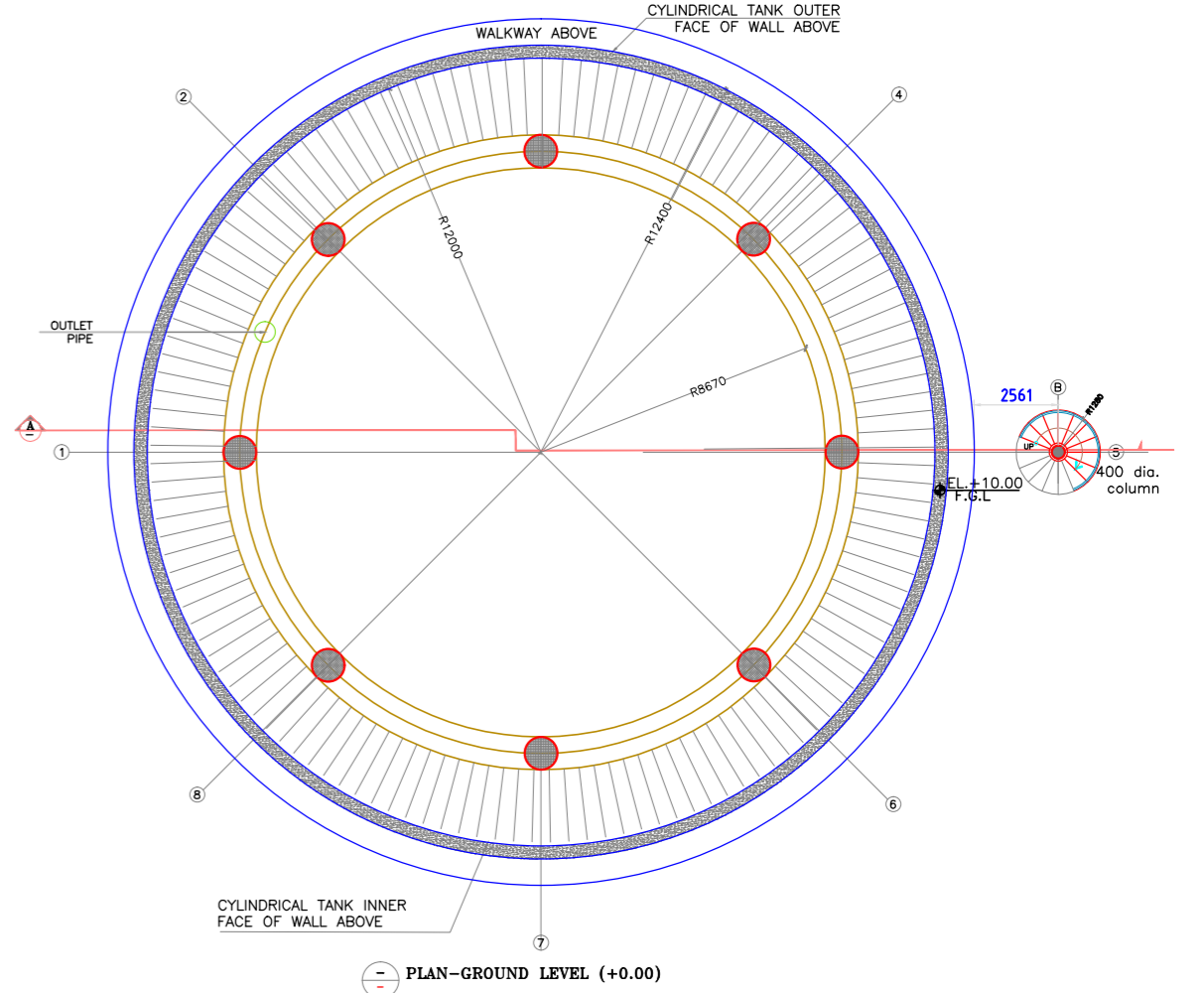
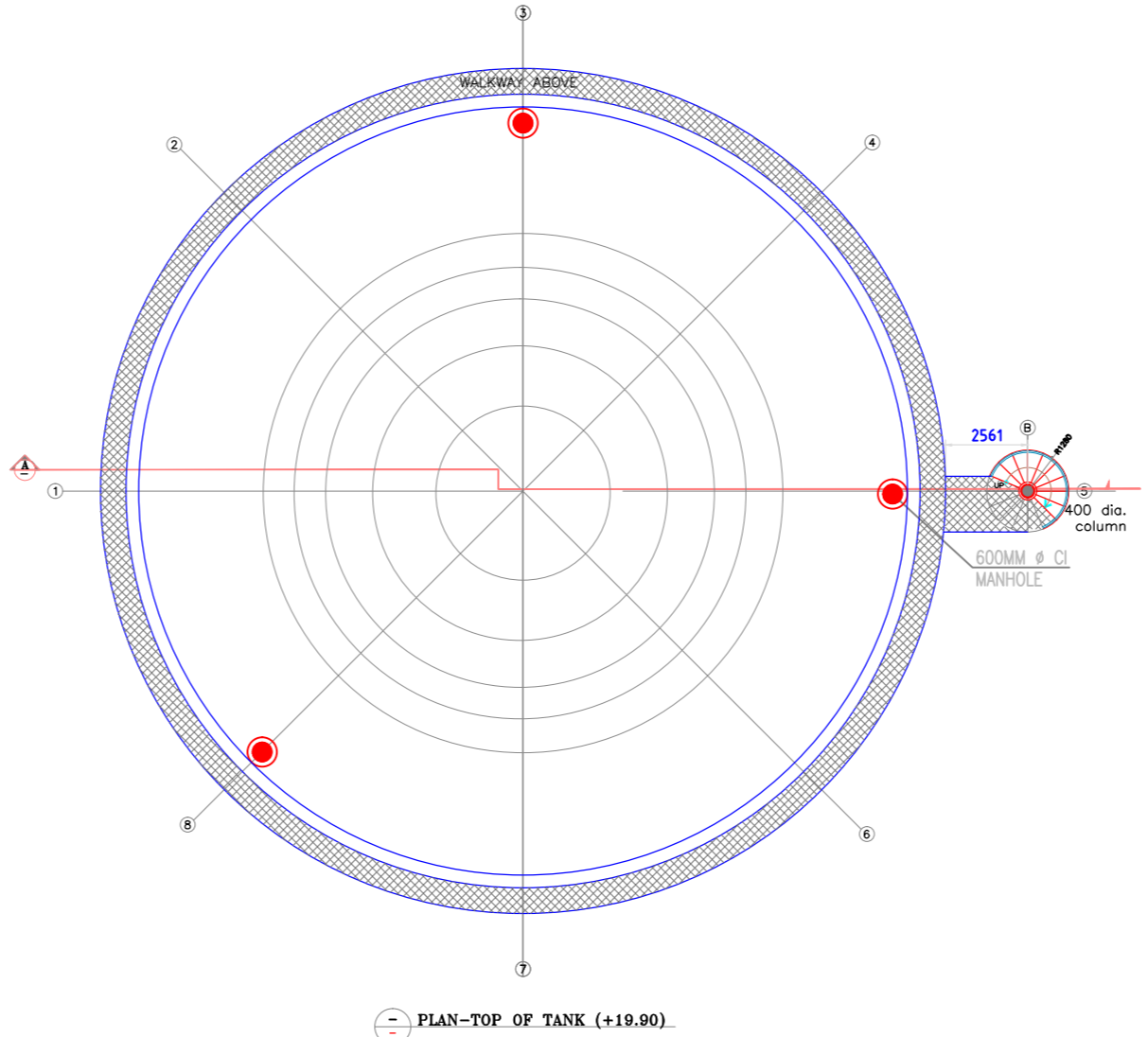
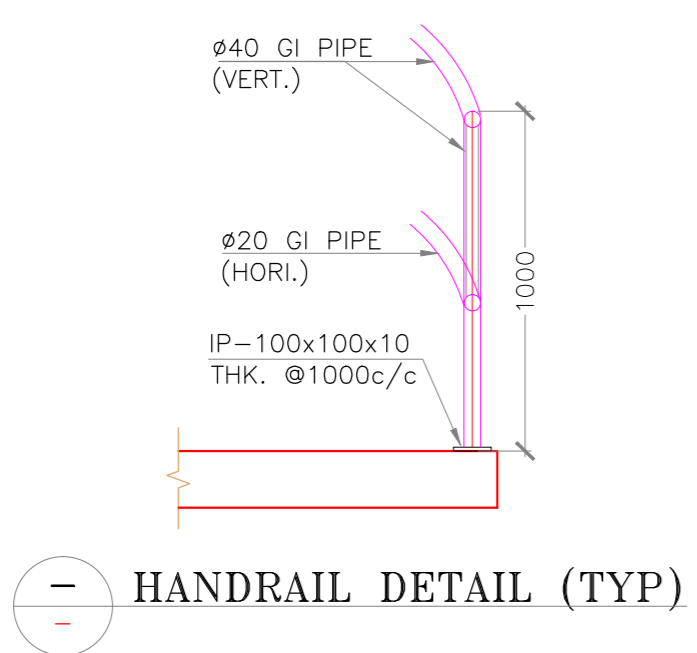
ARTELIA ENGINEERS LTD. IN CONSORTIUM WITH: ARTELIA ENGINEERS LTD.

L&T Infrastructure Engineering Ltd.

plot scale 50mm



- NOTES: -**
1. GRADE OF CONCRETE IS M30, GRADE OF STEEL REINF. IS FE 500
  2. CLEAR COVER FOR RCC MEMBERS, FOR DOMES 20 mm, WALLS 25 mm, BEAMS 30 mm, COLUMNS 40 mm, RAFT SLAB 40 mm, RAFT BEAM 60 mm.
  3. PROVIDE SUITABLE STEEL CHAIRS UNDER THE TOP MESH OF REINF. TO SEPARATE THE TWO LAYERS OF REINF. PROVIDED AT TOP & BOTTOM OF DOMES.
  4. PROVIDE HORIZONTAL LINKS @ 1 MET INTERVALS IN WALLS TO SEPARATE THE TWO LAYERS OF REINF. PROVIDED IN OUTER & INNER FACES OF WALL.
  5. PROVIDE SLEEVES FOR ALL PIPE CONNECTIONS BEFORE CONCRETING.
  6. SAFE BEARING CAPACITY OF FOUNDATION SOILS AT 3 MET. DEPTH IS CONSIDERED AS 150 kN/sqm
  7. WHICH SHALL BE VERIFIED BEFORE EXECUTION AND IF FOUND LESS THAN CONSIDERED REVISE THE SECTION OF RAFT FOOTING ACCORDINGLY.
  8. PROVIDE A LAYER OF LEVELING COURSE IN CC 1:3:6 (M10 GRADE) FOR 150 mm THICK BELOW RAFT SLAB.
  9. CONTINUOUS CURING SHALL BE DONE FOR AT LEAST 15 DAYS.
  10. CONSTRUCTION JOINTS WHERE EVER REQUIRED SHALL BE LEFT IN SIDE WALL AS PER IS 3370 PARTS 1 & 2
  11. AN ALUMINUM LADDER SHALL BE PROVIDED TO REACH THE BOTTOM OF TANK FROM TOP DOME.
  12. ALL ACCESSORIES AS IN GA DRG. LIKE INLET, OUTLET OVER FLOW WASHOUT & VENT PIPES, MANHOLES AND LIGHTENING ARRESTER SHALL BE PROVIDED.



**FOR TENDER PURPOSE ONLY**

REV.	YYMMDD	DATE	STATUS	DESCRIPTION	DES.	DRN.	INIT.	SIGN.	INIT.	SIGN.	NOTES	
DRAWING NO.	TITLE											
	REFERENCE DRAWINGS											
<b>REVISIONS</b>												
STATUS CODES 1: PRELIMINARY 2: FOR APPROVAL 3: GOOD FOR CONSTRUCTION 4: .....												

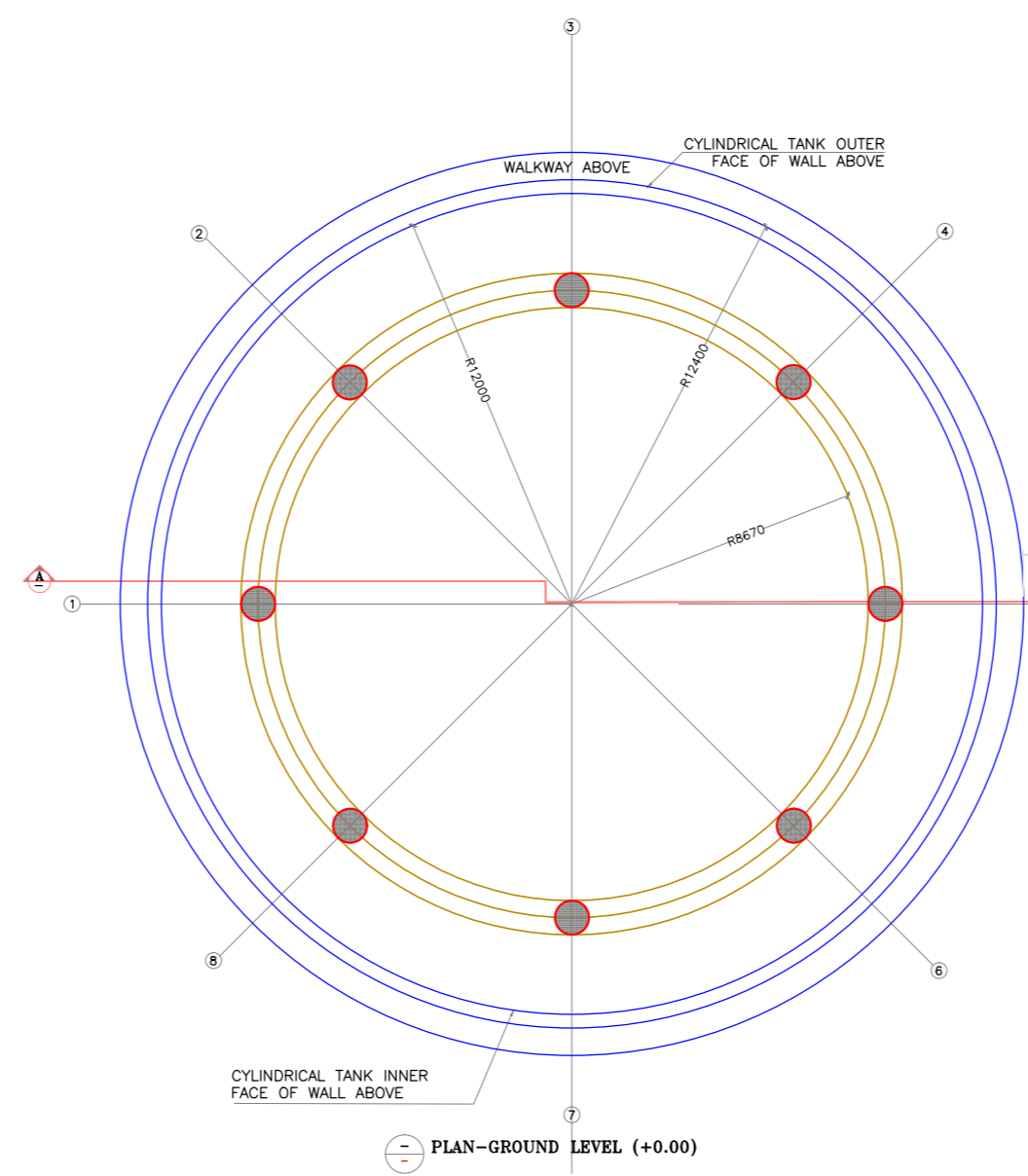
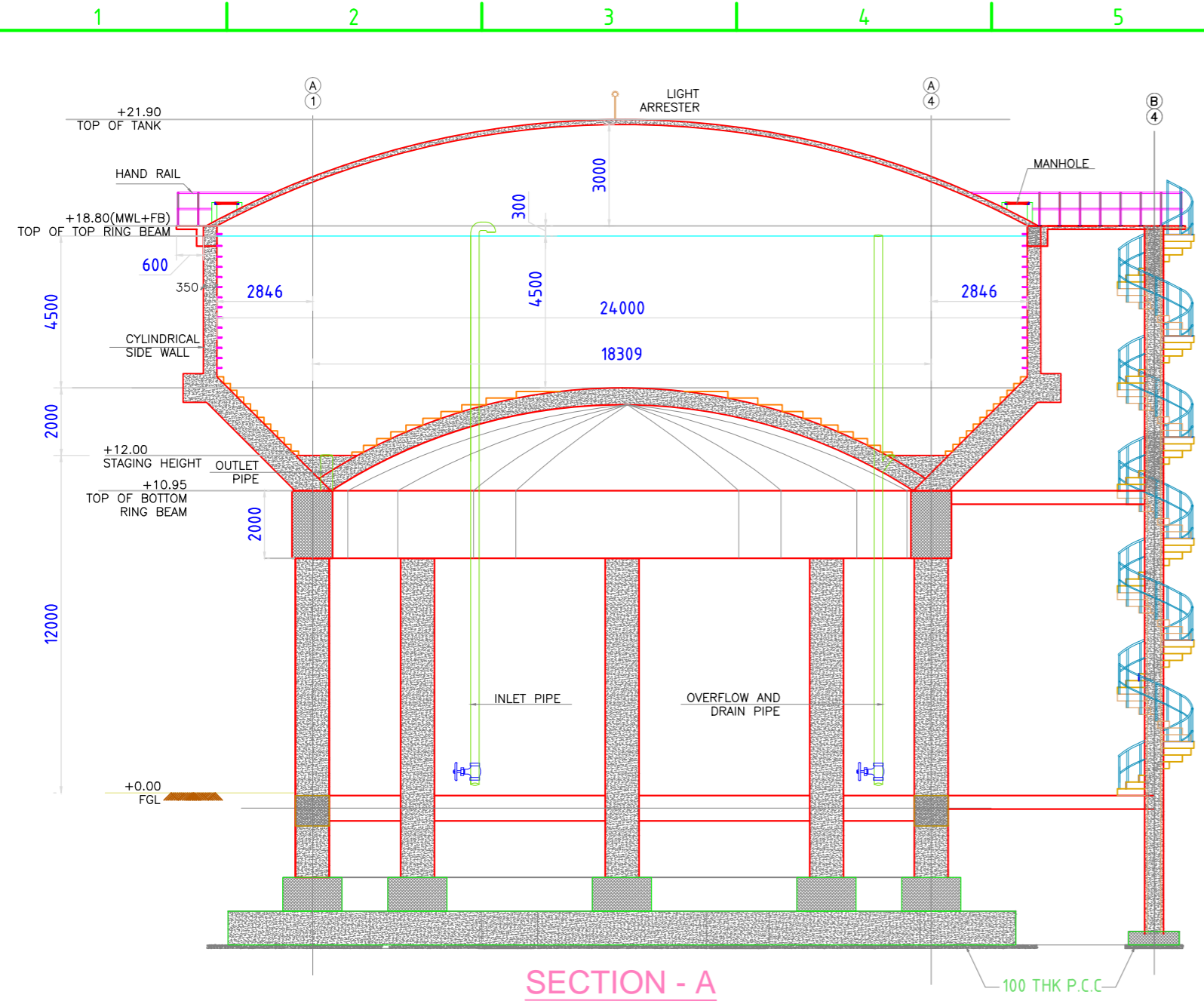
CLIENT: ANDHRA PRADESH INDUSTRIAL INFRASTRUCTURE CORPORATION LIMITED (APIIC)		PROJECT NO: C1232704
PROJECT: SETTING UP OF BULK DRUG PARK AT NAKKAPALLI IN ANAKAPALLI DISTRICT, ANDHRA PRADESH		COP: SCALE: NTS@A2
TITLE: GENERAL ARRANGEMENT OF 2700KL OHSR-4 (10M STAGING HEIGHT)		DRAWING NO: DDW310
		REV: R0



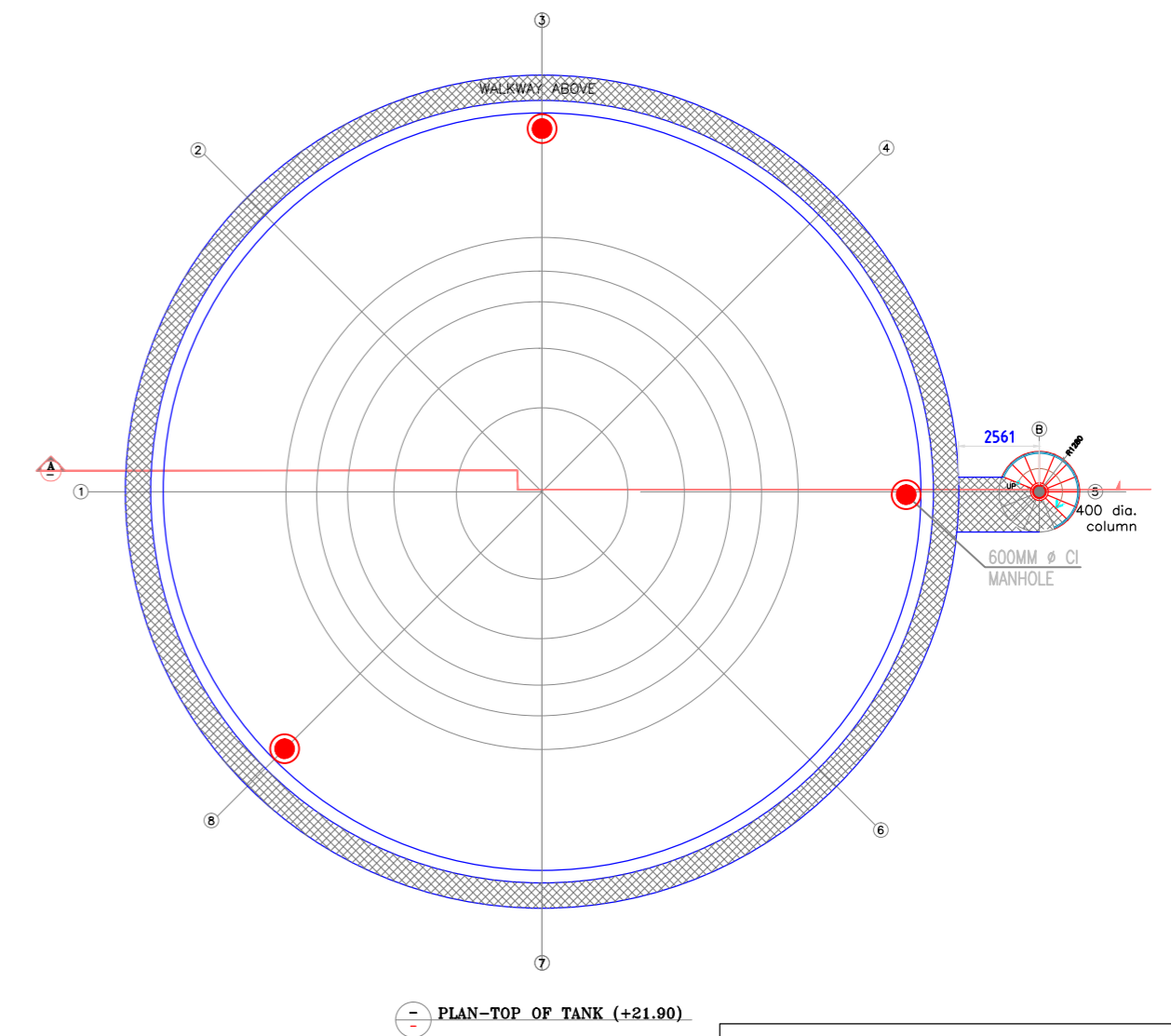
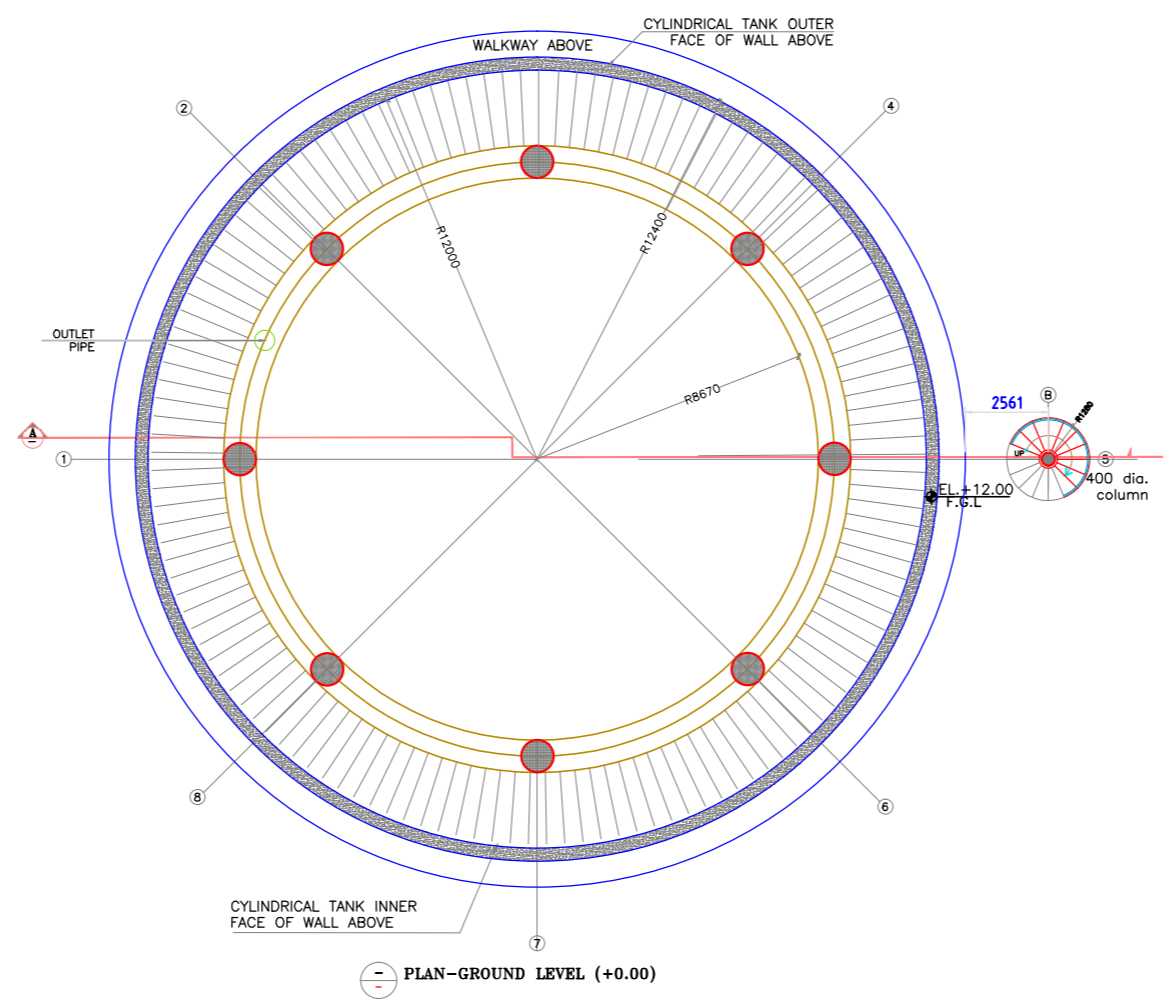
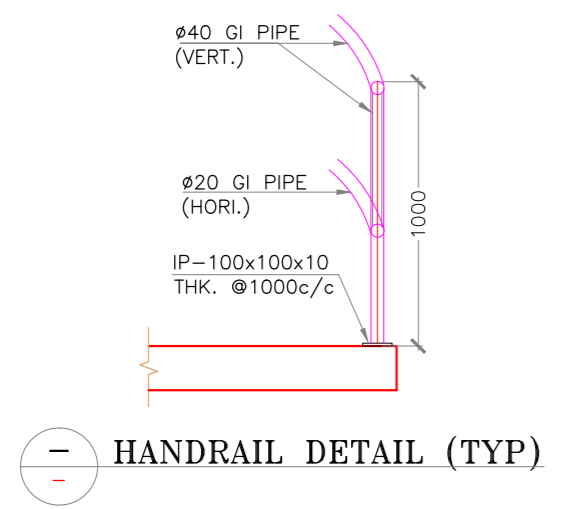
AUTO DATA ENHANCE FILES PROJECTS\SAPROD\31012022\NAKKAPALLI NEW PROJECT\ARPIP WORKING DRAWINGS\31012022\DRAWINGS\FINAL DRAWINGS\1\DTABLE DRAWINGS\1\DRG-4 (2700CLM 10M-STAGING

TBA

AUTO DATA: E:\M\N\I FILES\PROJECTS\APR\BP\030223\NANKAPALLI NEW PROJECT\APR\BP\WORKING DRAWINGS\FINAL DRAWINGS\27102023\WORKING FILE\BP\CAD DRAWINGS\1\DTABLE DRAWINGS\12\OHSR-5 (12M STAGING)\2PH-SIDING



- NOTES: -
1. GRADE OF CONCRETE IS M30, GRADE OF STEEL REINF. IS FE 500
  2. CLEAR COVER FOR RCC MEMBERS, FOR DOMES 20 mm, WALLS 25 mm, BEAMS 30 mm, COLUMNS 40 mm, RAFT SLAB 40 mm, RAFT BEAM 60 mm.
  3. PROVIDE SUITABLE STEEL CHAIRS UNDER THE TOP MESH OF REINF. TO SEPARATE THE TWO LAYERS OF REINF. PROVIDED AT TOP & BOTTOM OF DOMES.
  4. PROVIDE HORIZONTAL LINKS @ 1 MET INTERVALS IN WALLS TO SEPARATE THE TWO LAYERS OF REINF. PROVIDED IN OUTER & INNER FACES OF WALL.
  5. PROVIDE SLEEVES FOR ALL PIPE CONNECTIONS BEFORE CONCRETING.
  6. SAFE BEARING CAPACITY OF FOUNDATION SOILS AT 3 MET. DEPTH IS CONSIDERED AS 150 kN/sqm
  7. WHICH SHALL BE VERIFIED BEFORE EXECUTION AND IF FOUND LESS THAN CONSIDERED REVISE THE SECTION OF RAFT FOOTING ACCORDINGLY.
  8. PROVIDE A LAYER OF LEVELING COURSE IN CC 1:3:6 (M10 GRADE) FOR 150 mm THICK BELOW RAFT SLAB.
  9. CONTINUOUS CURING SHALL BE DONE FOR AT LEAST 15 DAYS.
  10. CONSTRUCTION JOINTS WHERE EVER REQUIRED SHALL BE LEFT IN SIDE WALL AS PER IS 3370 PARTS 1 & 2
  11. AN ALUMINUM LADDER SHALL BE PROVIDED TO REACH THE BOTTOM OF TANK FROM TOP DOME.
  12. ALL ACCESSORIES AS IN GA DRG. LIKE INLET, OUTLET OVER FLOW WASHOUT & VENT PIPES, MANHOLES AND LIGHTENING ARRESTER SHALL BE PROVIDED.



**FOR TENDER PURPOSE ONLY**

NOTES:

REV.	YYMMDD DATE	STATUS	DESCRIPTION	DES.	DRN.	INIT. CHECKED	SIGN. APPROVED	INIT.	SIGN.
DRAWING NO.		TITLE		REVISIONS					
		REFERENCE DRAWINGS		STATUS CODES 1: PRELIMINARY 2: FOR APPROVAL 3: GOOD FOR CONSTRUCTION 4: .....					

CLIENT: ANDHRA PRADESH INDUSTRIAL INFRASTRUCTURE CORPORATION LIMITED (APIIC)

PROJECT: SETTING UP OF BULK DRUG PARK AT NAKKAPALLI IN ANAKAPALLI DISTRICT, ANDHRA PRADESH

TITLE: GENERAL ARRANGEMENT OF 2700KL OHSR-5 (12M STAGING HEIGHT)

PROJECT NO: C1232704

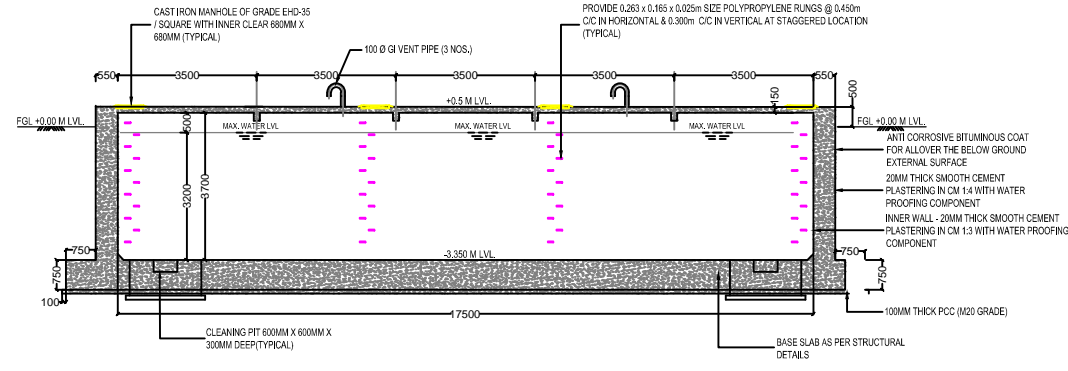
COP: SCALE: NTS@A2

DRAWING NO: DDW311 REV: R0

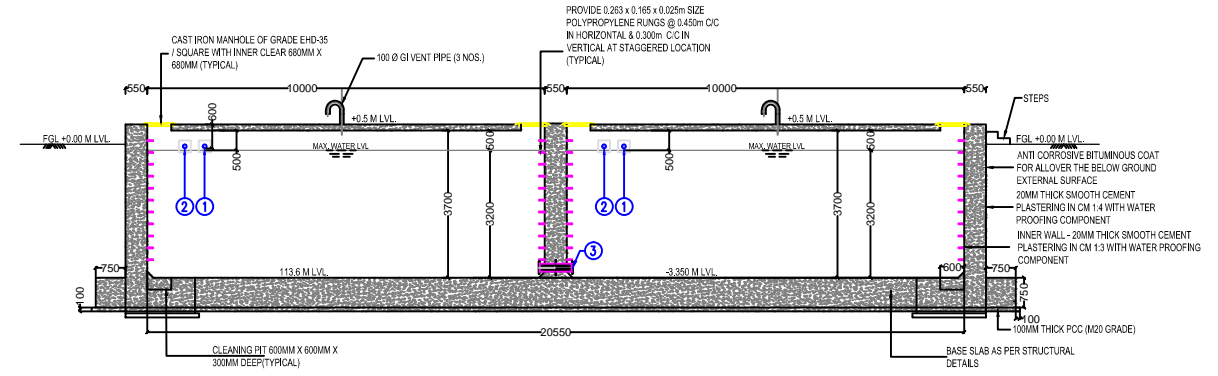
**L&T Infrastructure Engineering Ltd.** IN CONSORTIUM WITH: **ARTELIA**

plot scale 50mm

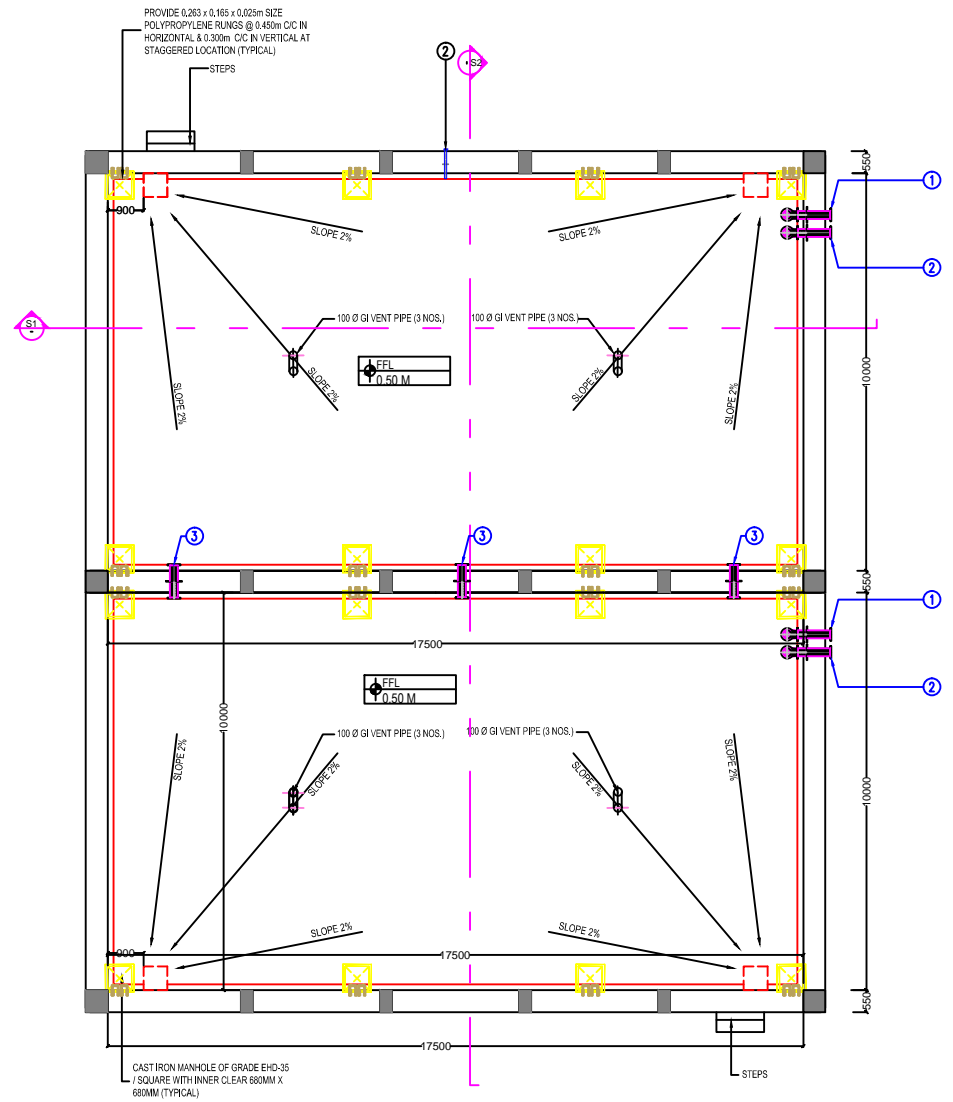
AUTO PATH: E:\MAMI FILES\PROJECTS\VPBDP\_03102023\NAKKAPALLI NEW PROJECT\VPBDP WORKING DRAWINGS\FINAL DRAWINGS\1.POTABLE DRAWINGS\1.POTABLE DRAWINGS\1 (1200CUM).DWG



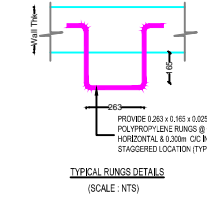
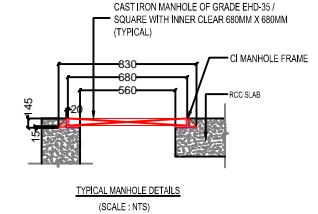
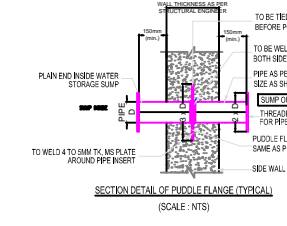
SECTION -S1



SECTION -S2



UG Sump - PLAN



S.NO	DIA OF PIPES (mm)	DESCRIPTION	SCHEDULE OF FLANGE	NO. OF PUDDLE FLANGE
1	200	POTABLE WATER INLET (COMPARTMENT 1)	BOP AT 600MM BELOW TOP SLAB	1W+1SPARE
2	200	POTABLE WATER INLET (COMPARTMENT 2)	BOP AT 600MM BELOW TOP SLAB	1W+1SPARE
3	200	INTERCONNECTING PIPE	BOP AT 50MM ABOVE BASE SLAB	3

**FOR TENDER PURPOSE ONLY**

This drawing is the property of L&T Infrastructure Engineering Ltd. and must not be passed on to any person or body not authorised by us to receive it nor be copied or otherwise made use of either in full or in part by such person or body without our prior permission in writing.  
PATH: REFER BOTTOM LEFT CORNER OF THE DRAWING

**PROJECT:** SETTING UP OF BULK DRUG PARK AT NAKKAPALLI IN ANAKAPALLI DISTRICT, ANDHRA PRADESH

**TITLE:** GENERAL ARRANGEMENT DRAWING OF UG SUMP 1 (1200CUM)  
**LOCATION:** OHSR 1

**L&T Infrastructure Engineering Ltd.**

**IN CONSORTIUM WITH:**  
**ARTELIA**  
ARTELIA CONSULTING ENGINEERS LTD.  
(Formerly Madhya Consulting Engineers Ltd.)

**PROJECT NO:**  
C1232704

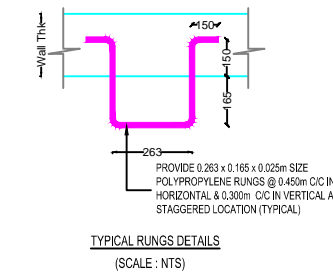
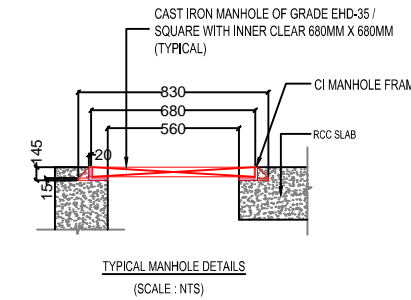
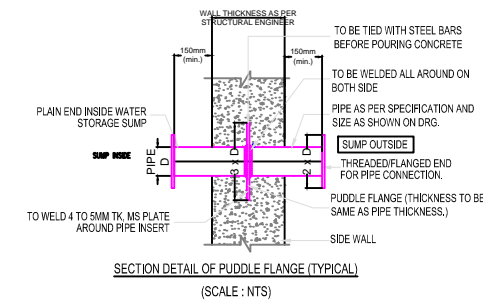
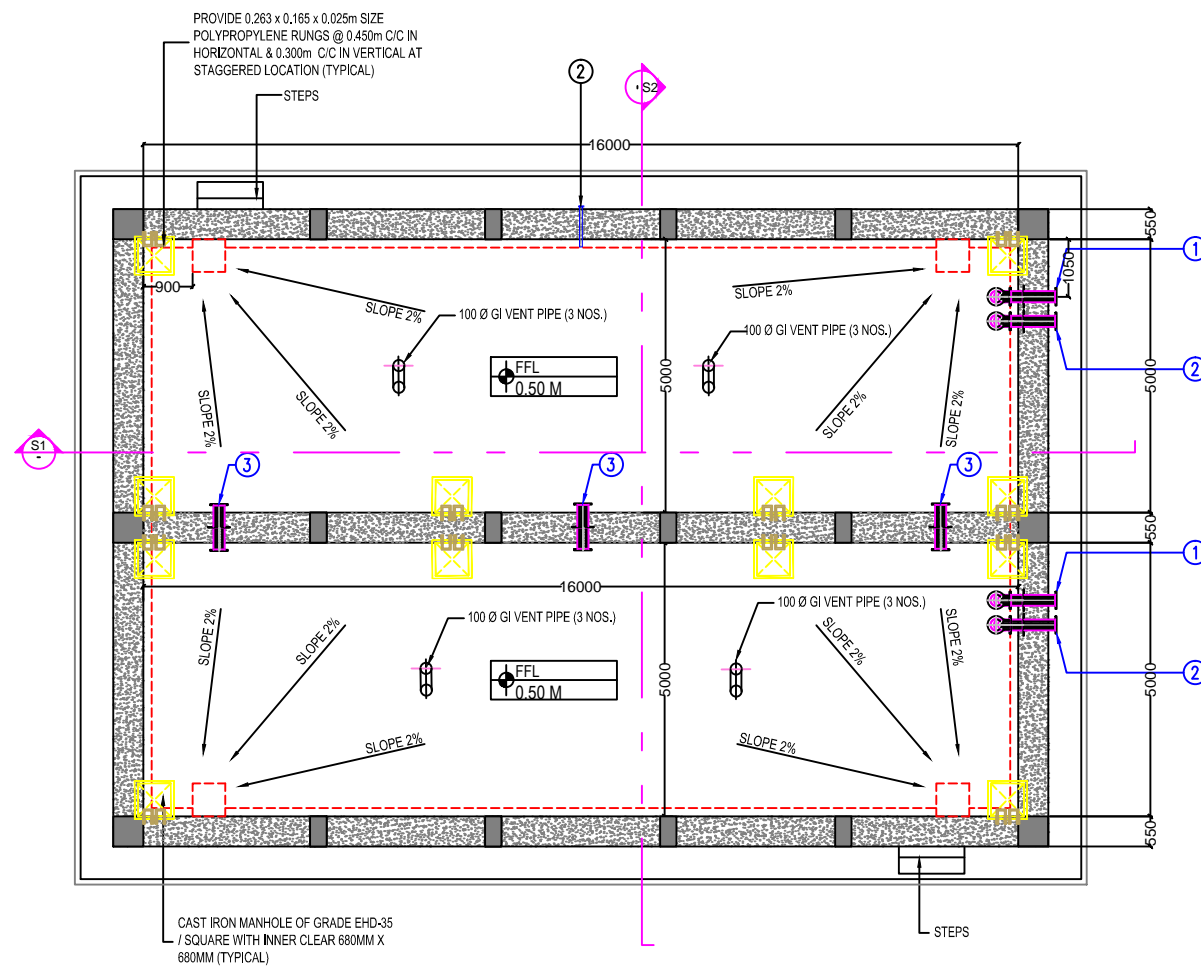
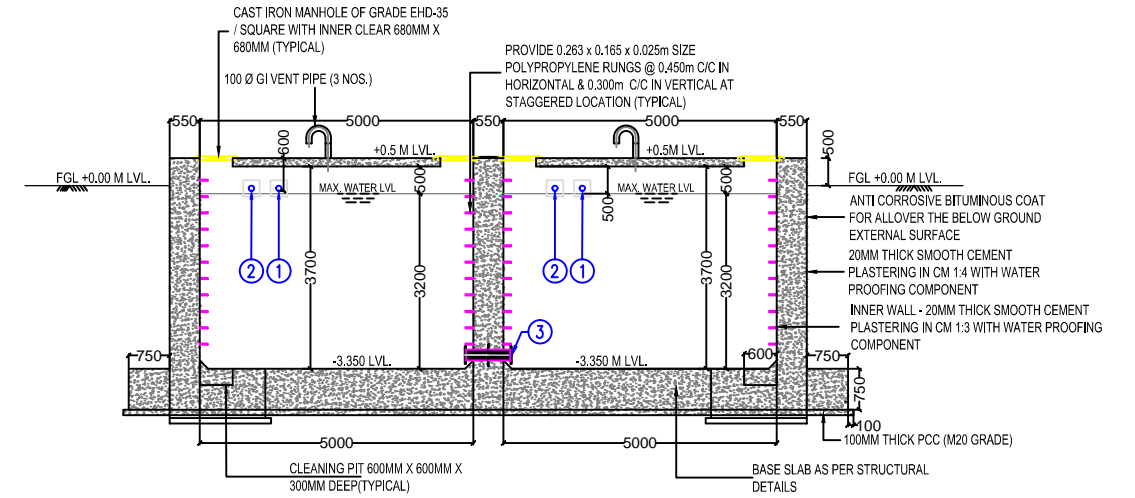
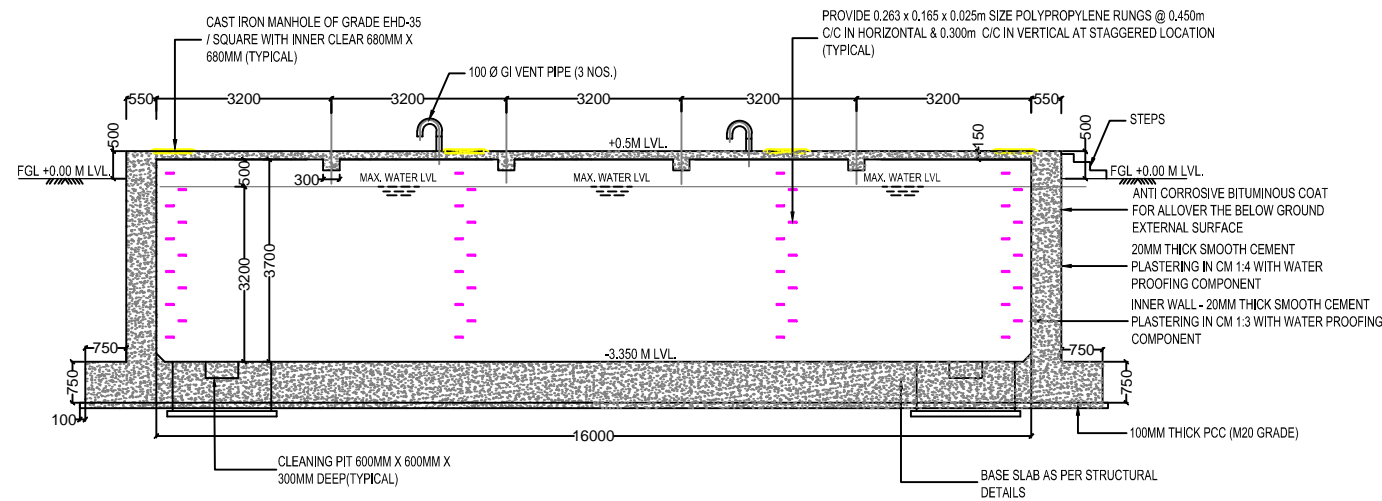
**DATE:**

**MADE:**

**FIGURE NO:** DDW312  
**REV:** R0



AUTO PATH: E:\MAMI FILES\PROJECTS\VPBDDP\_03102023\NAKKAPALLI NEW PROJECT\VPBDDP - WORKING DRAWINGS\3102023\DRAWINGS\FINAL DRAWINGS\CAD DRAWINGS\1\PORTABLE DRAWINGS\1\UGSUMP 2 (500CUM).DWG



S.NO	DIA OF PIPES (mm)	DESCRIPTION	SCHEDULE OF FLANGE	NO. OF PUDDLE FLANGE
1	Ø200	POTABLE WATER INLET (COMPARTMENT 1)	BOP AT 600MM BELOW TOP SLAB	1W+1SPARE
2	Ø200	POTABLE WATER INLET (COMPARTMENT 2)	BOP AT 600MM BELOW TOP SLAB	1W+1SPARE
3	Ø200	INTERCONNECTING PIPE	BOP AT 50MM ABOVE BASE SLAB	3

**FOR TENDER PURPOSE ONLY**

This drawing is the property of L&T Infrastructure Engineering Ltd. and must not be passed on to any person or body not authorised by us to receive it nor be copied or otherwise made use of either in full or in part by such person or body without our prior permission in writing.

PATH: REFER BOTTOM LEFT CORNER OF THE DRAWING

**PROJECT:** SETTING UP OF BULK DRUG PARK AT NAKKAPALLI IN ANAKAPALLI DISTRICT, ANDHRA PRADESH

**TITLE:** GENERAL ARRANGEMENT DRAWING OF UG SUMP 2 (500CUM) LOCATION: OHSR 2

**PROJECT NO:**  
C1232704

**DATE:**

**MADE:**

**FIGURE NO:**

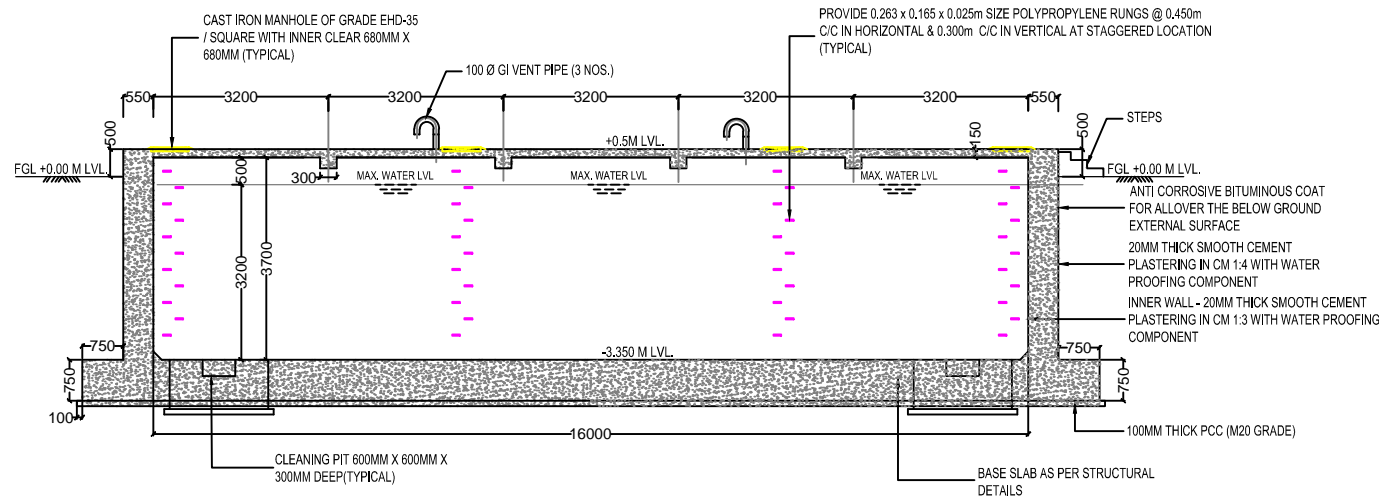
**REV:**  
DDW313 R0

**L&T Infrastructure Engineering Ltd.**

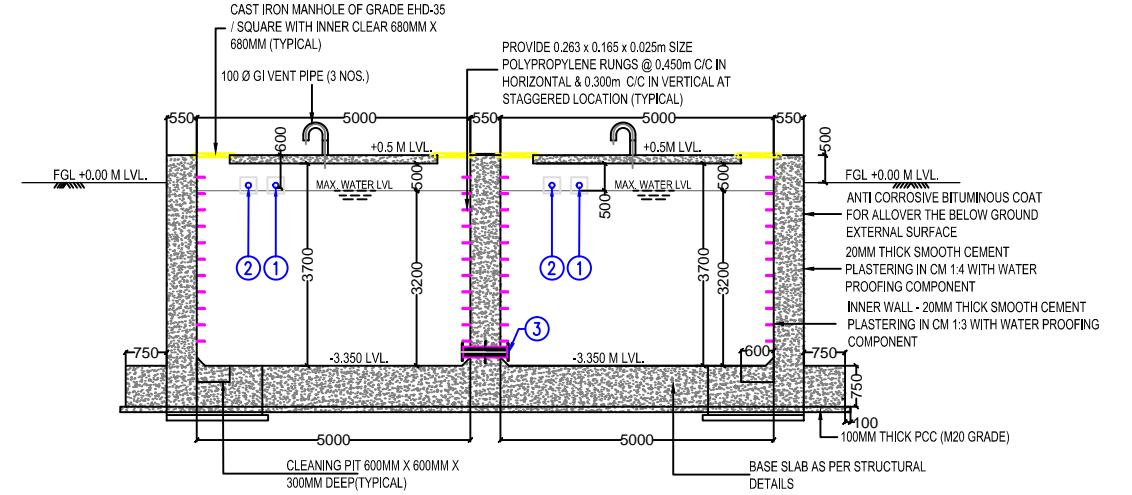
IN CONSORTIUM WITH:

**ARTELIA**  
ARTELIA CONSULTING ENGINEERS LTD.

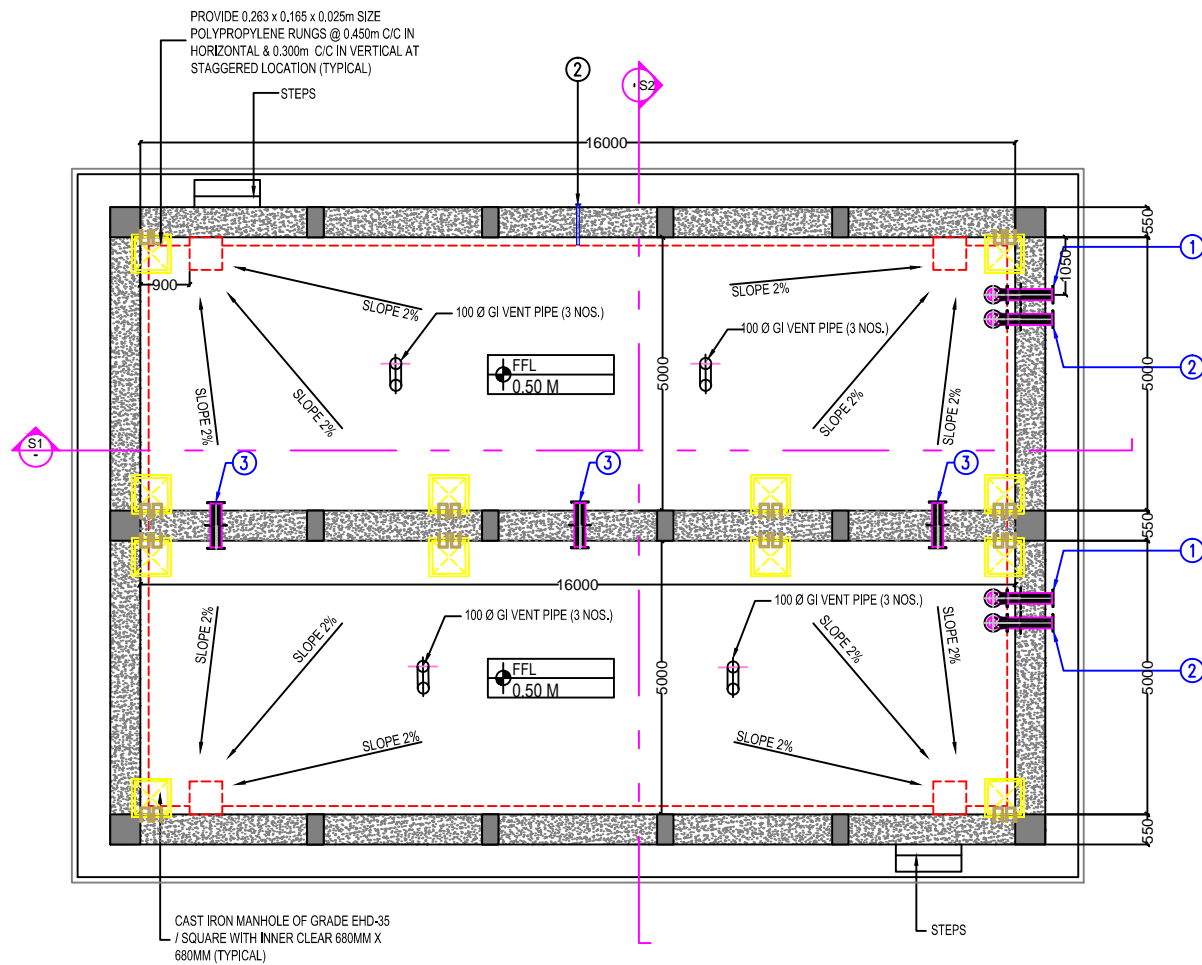
AUTO PATH: E:\MAMI FILES\PROJECTS\VPBDP\_03102023\NAKKAPALLI NEW PROJECT\VPBDP WORKING DRAWINGS\30102023 DRAWINGS\FINAL DRAWINGS\CAD DRAWINGS\1.POTABLE DRAWINGS\UGSUMP 3 (500CUM).DWG



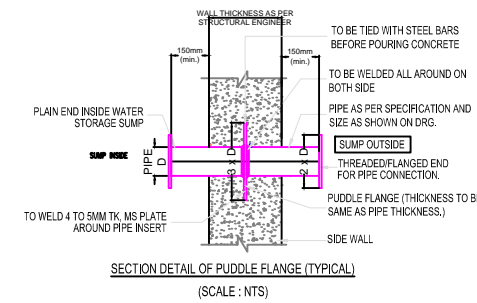
SECTION-S1



SECTION-S2

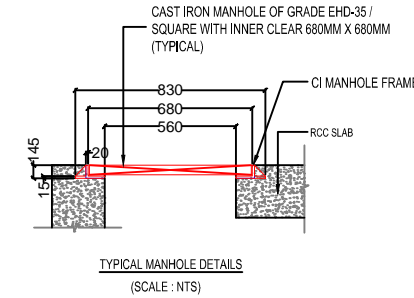


UG Sump - PLAN



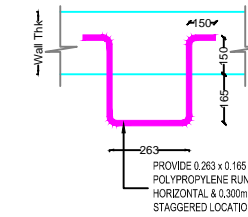
SECTION DETAIL OF PUDDLE FLANGE (TYPICAL)

(SCALE : NTS)



TYPICAL MANHOLE DETAILS

(SCALE : NTS)



TYPICAL RUNGS DETAILS

(SCALE : NTS)

S.NO	DIA OF PIPES (mm)	DESCRIPTION	SCHEDULE OF FLANGE	NO. OF PUDDLE FLANGE
1	Ø200	POTABLE WATER INLET (COMPARTMENT 1)	BOP AT 600MM BELOW TOP SLAB	1W+1SPARE
2	Ø200	POTABLE WATER INLET (COMPARTMENT 2)	BOP AT 600MM BELOW TOP SLAB	1W+1SPARE
3	Ø200	INTERCONNECTING PIPE	BOP AT 50MM ABOVE BASE SLAB	3

**FOR TENDER PURPOSE ONLY**

This drawing is the property of L&T Infrastructure Engineering Ltd. and must not be passed on to any person or body not authorised by us to receive it nor be copied or otherwise made use of either in full or in part by such person or body without our prior permission in writing.

PATH: REFER BOTTOM LEFT CORNER OF THE DRAWING

**PROJECT:** SETTING UP OF BULK DRUG PARK AT NAKKAPALLI IN ANAKAPALLI DISTRICT, ANDHRA PRADESH  
**TITLE:** GENERAL ARRANGEMENT DRAWING OF UG SUMP 3 (500CUM)  
**LOCATION:** OHSR 4

**PROJECT NO:**  
C1232704

**DATE:**

**MADE:**

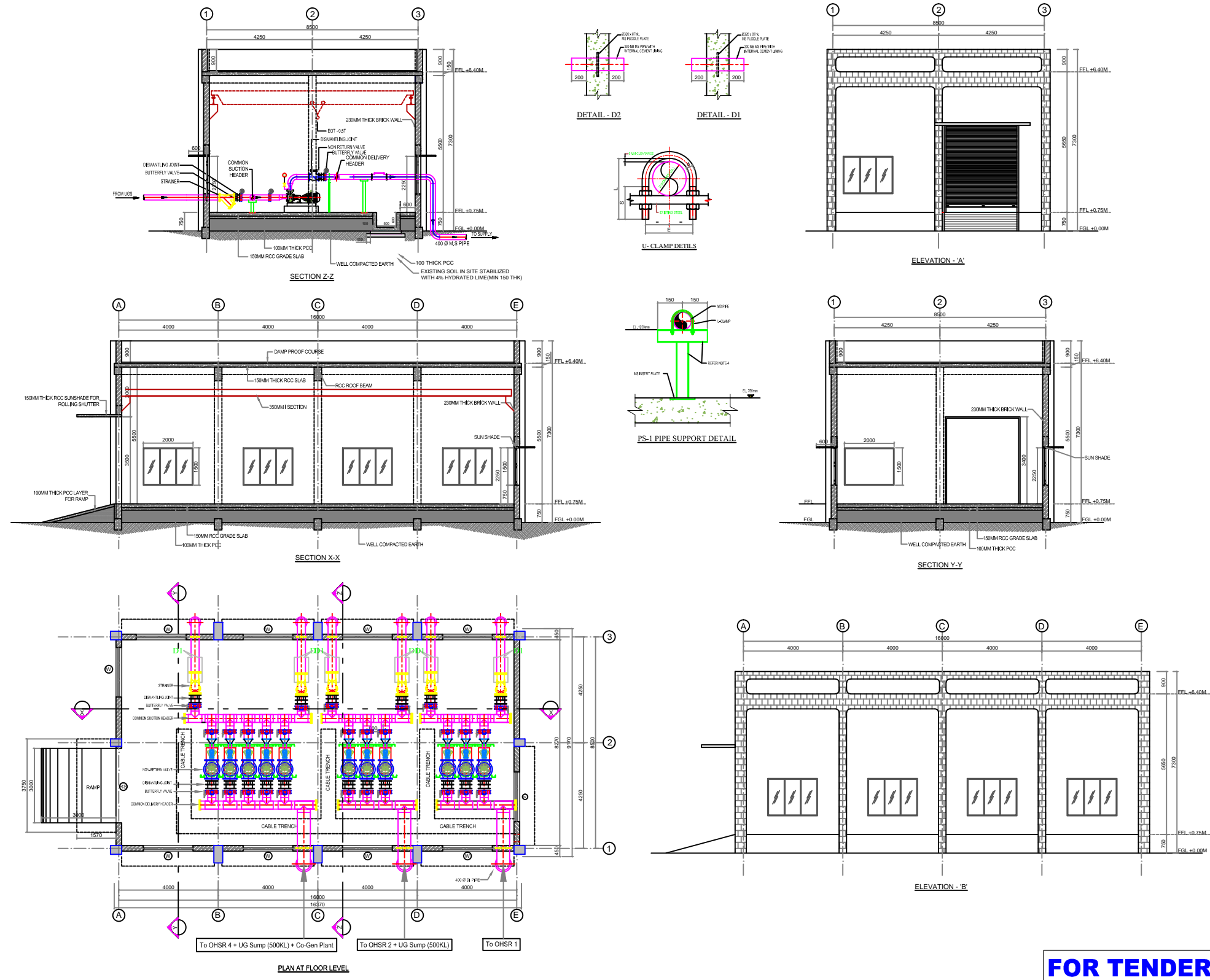
**FIGURE NO:** DDW314  
**REV:** R0

**L&T Infrastructure Engineering Ltd.**

IN CONSORTIUM WITH:

**ARTELIA**  
Partners & Solicitors  
 ARTELIA CONSULTING ENGINEERS LTD.  
 (Formerly Madhava Consulting Engineers Ltd.)

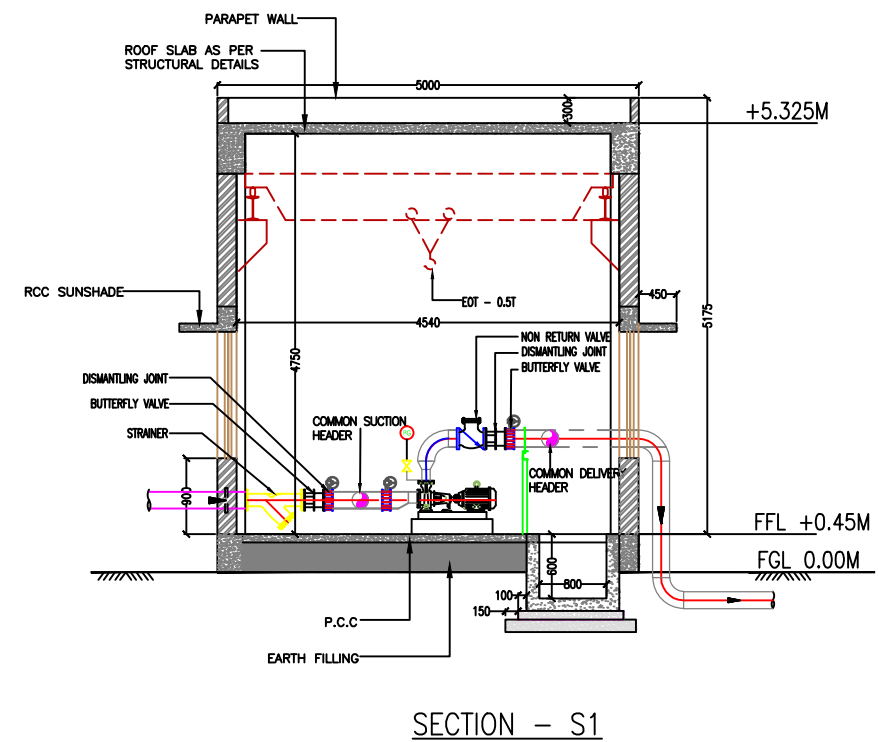
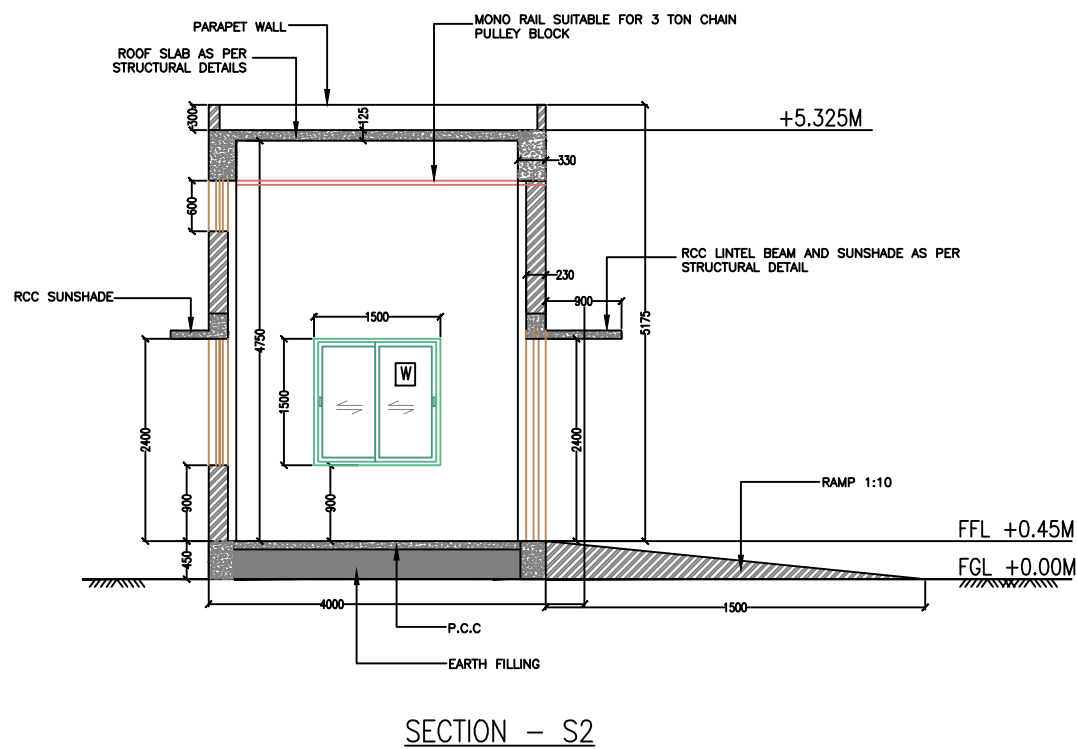
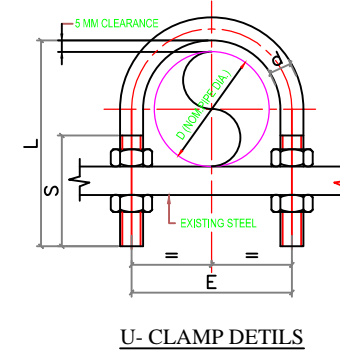
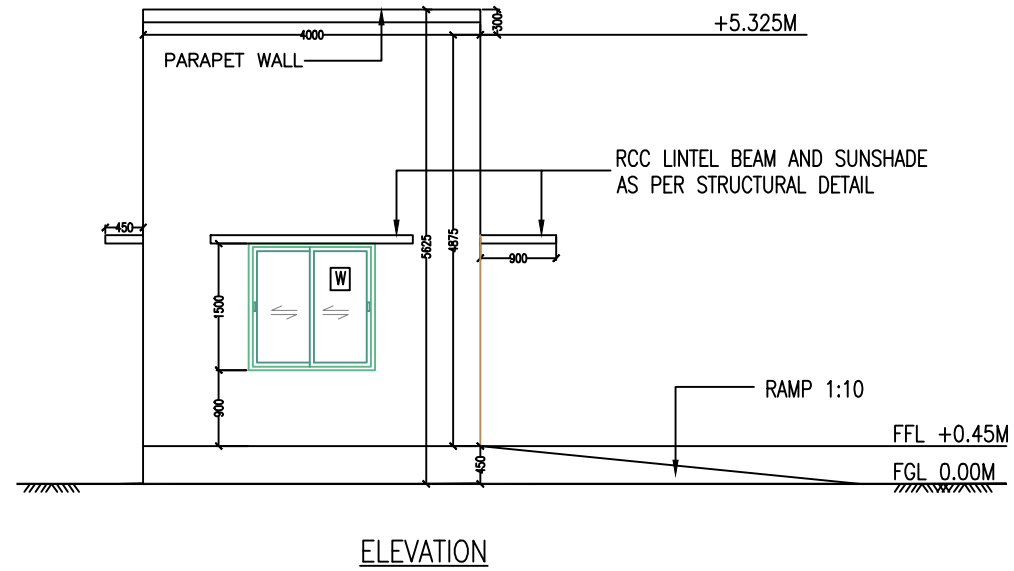
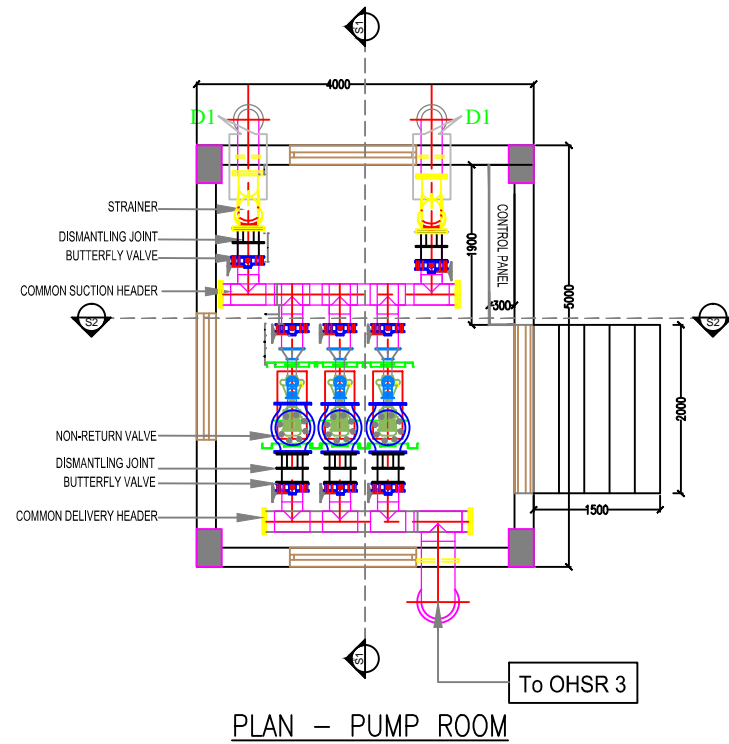
AUTO PATH: E:\MAMI FILES\PROJECTS\APBDDP\_03102023\NAKKAPALLI NEW PROJECT\APBDDP - WORKING DRAWINGS\30102023 DRAWINGS\FINAL DRAWINGS\CAD DRAWINGS\1.POTABLE DRAWINGS\1.POTABLE DRAWINGS\16M X 8.5M\DWG



**FOR TENDER PURPOSE ONLY**

This drawing is the property of L&T Infrastructure Engineering Ltd. and must not be passed on to any person or body not authorised by us to receive it nor be copied or otherwise made use of either in full or in part by such person or body without our prior permission in writing. PATH: REFER BOTTOM LEFT CORNER OF THE DRAWING	<b>PROJECT:</b> SETTING UP OF BULK DRUG PARK AT NAKKAPALLI IN ANAKAPALLI DISTRICT, ANDHRA PRADESH	<b>PROJECT NO:</b> C1232704
	<b>TITLE:</b> GENERAL ARRANGEMENT DRAWING OF POTABLE PUMPROOM (16M X 8.5M) LOCATION: OHSR 1	<b>DATE:</b>
	<b>IN CONSORTIUM WITH:</b>	<b>MADE:</b>
	<b>ARTELIA</b> CONSULTING ENGINEERS LTD. <small>Formerly Madhya Consulting Engineers Ltd.</small>	<b>FIGURE NO:</b> DDW315

AUTO PATH: E:\MANI FILES\PROJECTS\APBDP\_03102023\NAKKAPALLI NEW PROJECT\APBDP - WORKING DRAWINGS\30102023 DRAWINGS\FINAL DRAWINGS\27102023\WORKING FILE\BOP\CAD DRAWINGS\1.POTABLE DRAWINGS\1.POTABLE PUMPROOM OHSR 2 LOCATION (5M X 4M).DWG



**FOR TENDER PURPOSE ONLY**

This drawing is the property of L&T Infrastructure Engineering Ltd. and must not be passed on to any person or body not authorised by us to receive it nor be copied or otherwise made use of either in full or in part by such person or body without our prior permission in writing.

PATH: REFER BOTTOM LEFT CORNER OF THE DRAWING

**PROJECT:** SETTING UP OF BULK DRUG PARK AT NAKKAPALLI IN ANAKAPALLI DISTRICT, ANDHRA PRADESH  
**TITLE:** GENERAL ARRANGEMENT DRAWING OF POTABLE PUMPROOM (5M X 4M) LOCATION: OHSR 2

**PROJECT NO:**  
C1232704

**DATE:**

**MADE:**

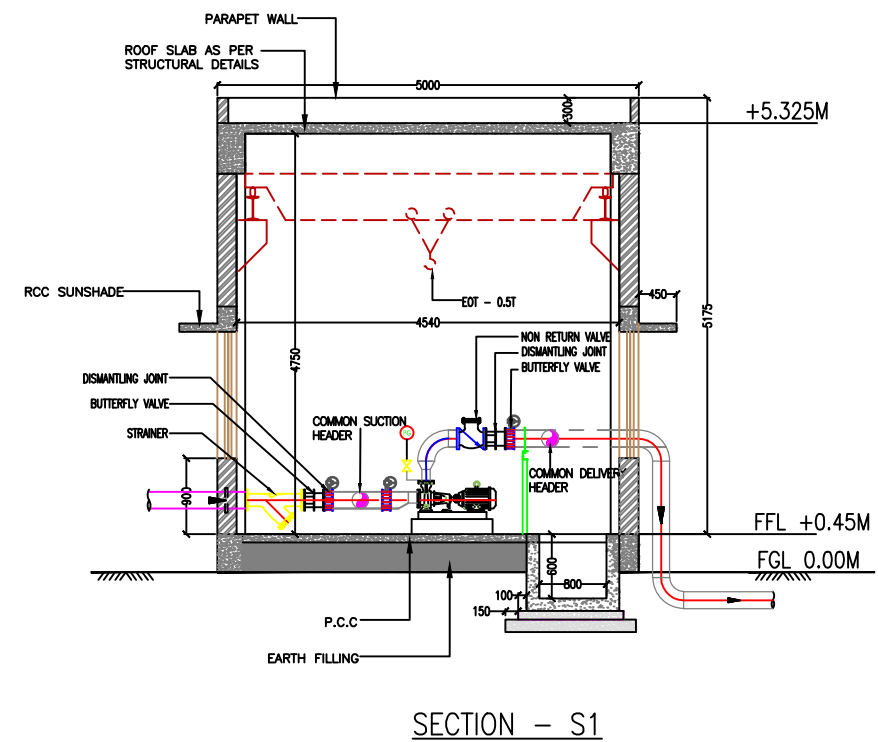
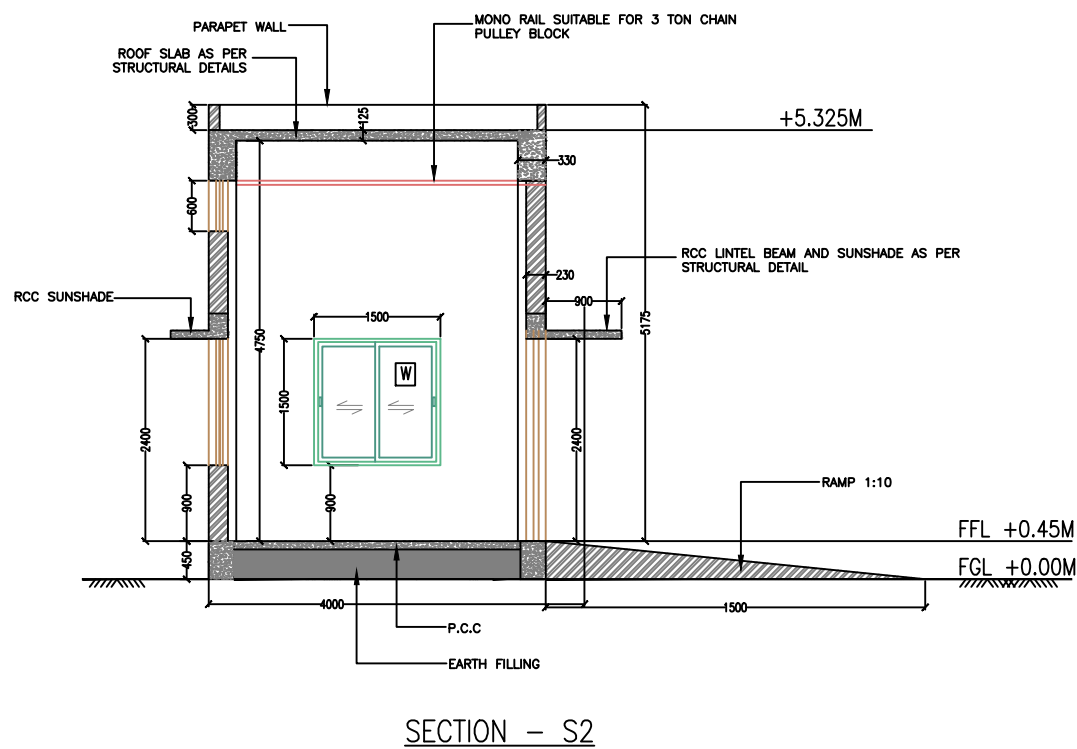
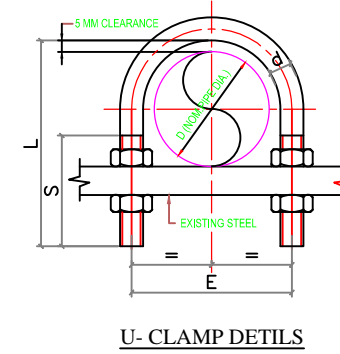
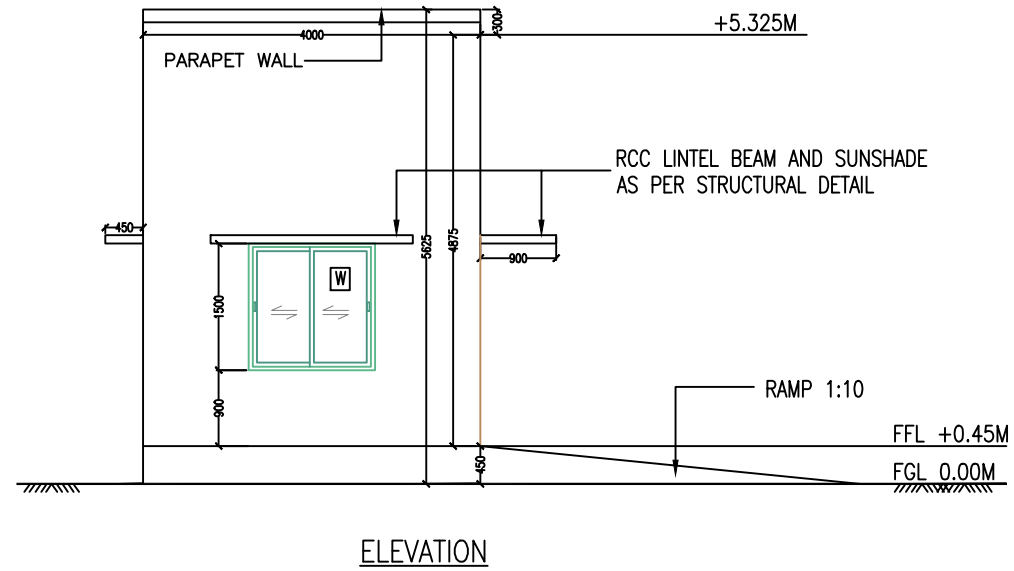
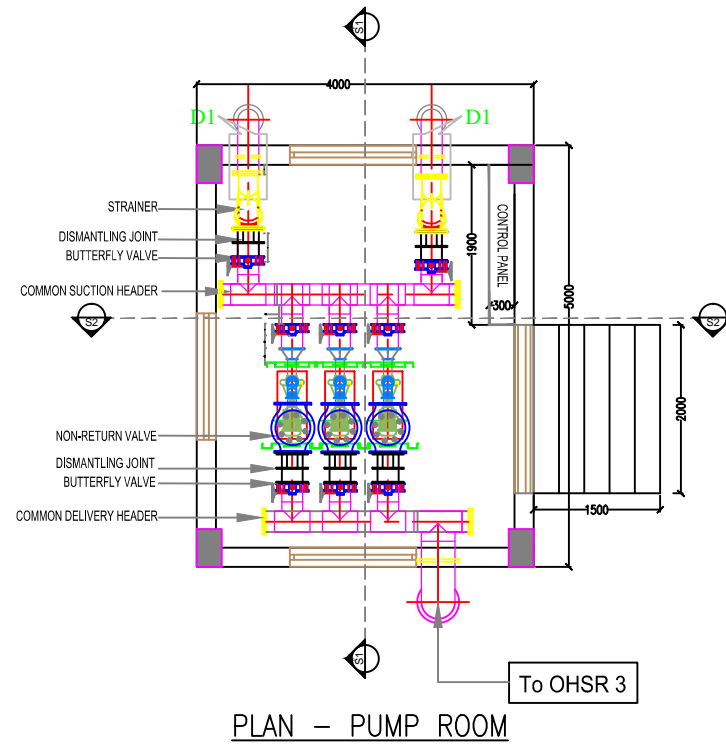
**FIGURE NO:** DDW316  
**REV:** R0

**L&T Infrastructure Engineering Ltd.**

IN CONSORTIUM WITH:

**ARTELIA**  
ARTELIA CONSULTING ENGINEERS LTD.

AUTO PATH: E:\MANI FILES\PROJECTS\APBDDP\_03102023\NAKKAPALLI NEW PROJECT\APBDDP - WORKING DRAWINGS\30102023 DRAWINGS\FINAL DRAWINGS\1.POTABLE PUMPROOM OHSR 4 LOACTION (5M X 4M).DWG



**FOR TENDER PURPOSE ONLY**

This drawing is the property of L&T Infrastructure Engineering Ltd. and must not be passed on to any person or body not authorised by us to receive it nor be copied or otherwise made use of either in full or in part by such person or body without our prior permission in writing.

PATH: REFER BOTTOM LEFT CORNER OF THE DRAWING

**PROJECT:** SETTING UP OF BULK DRUG PARK AT NAKKAPALLI IN ANAKAPALLI DISTRICT, ANDHRA PRADESH  
**TITLE:** GENERAL ARRANGEMENT DRAWING OF POTABLE PUMPROOM (5M X 4M) LOCATION: OHSR 4

**PROJECT NO:**  
C1232704

**DATE:**

**MADE:**

**FIGURE NO:** DDW317  
**REV:** R0

**L&T Infrastructure Engineering Ltd.**

IN CONSORTIUM WITH:

**ARTELIA**  
ARTELIA CONSULTING ENGINEERS LTD.



**Nodal Agency**

**Andhra Pradesh Industrial Infrastructure Corporation Limited**

**Implementing Agency**

**AP Bulk Drug Infrastructure Corp. Ltd**

**APIIC Towers, 9<sup>th</sup> Floor, IT Park, Mangalagiri, Guntur District- 522 503  
Andhra Pradesh**



Department of Pharmaceuticals  
Ministry of Chemicals and Fertilizers  
Government of India

AP BULK DRUG PARK  
NAKKAPALLI, ANDHRA PRADESH

## BIDDING DOCUMENTS

(Tender Drawings)

JANUARY 2024

SUBMITTED BY



Government of Andhra Pradesh

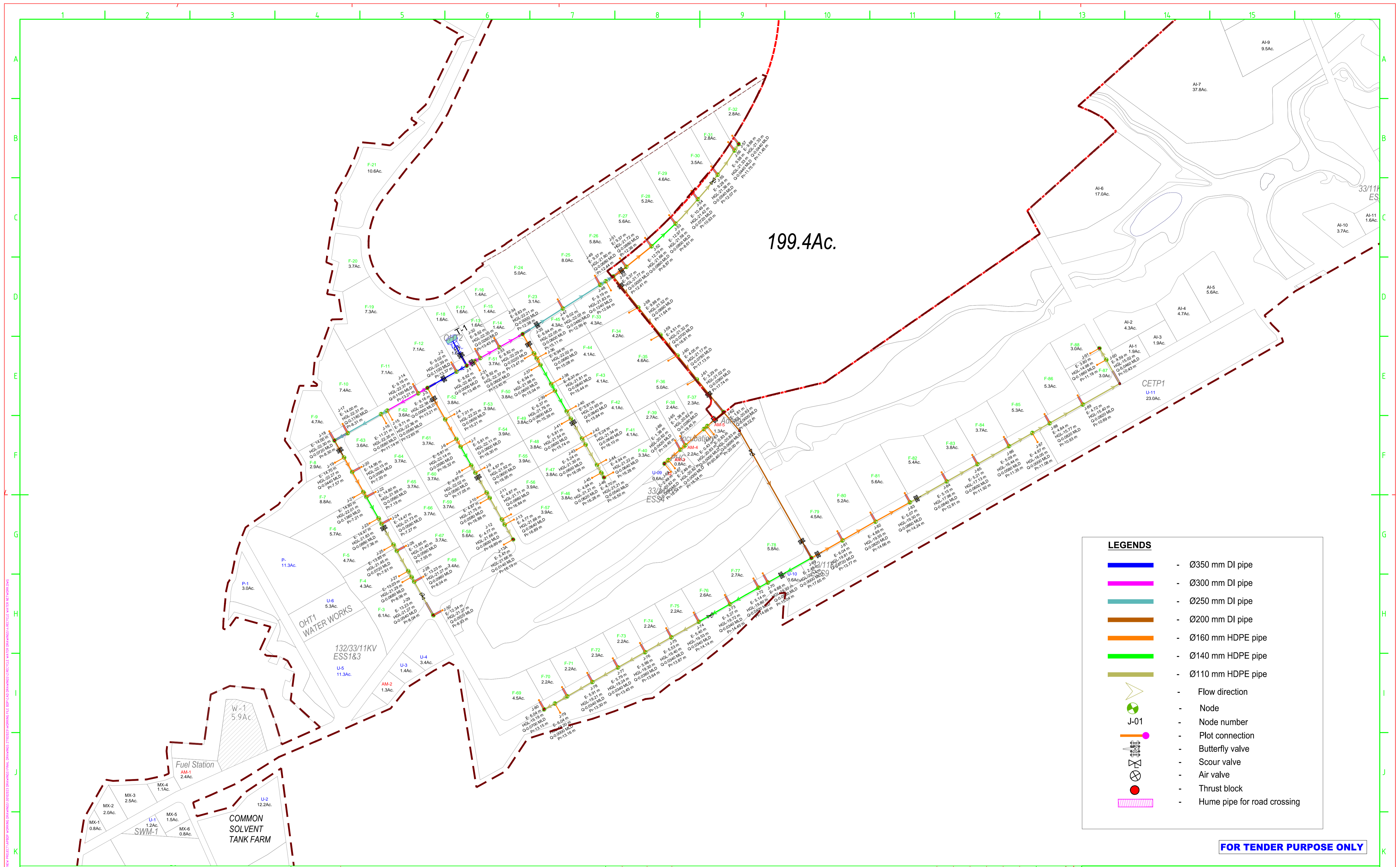
Nodal Agency

Andhra Pradesh Industrial Infrastructure Corporation Limited

Implementing Agency

AP Bulk Drug Infrastructure Corp. Ltd.

VOLUME –II (C) RECYCLE WATER SUPPLY  
DRAWINGS



**LEGENDS**

- Ø350 mm DI pipe
- Ø300 mm DI pipe
- Ø250 mm DI pipe
- Ø200 mm DI pipe
- Ø160 mm HDPE pipe
- Ø140 mm HDPE pipe
- Ø110 mm HDPE pipe
- Flow direction
- Node
- Node number
- Plot connection
- Butterfly valve
- Scour valve
- Air valve
- Thrust block
- Hume pipe for road crossing

**FOR TENDER PURPOSE ONLY**

**NOTES**

1. All dimensions are in meters unless otherwise specified.

2. The site is to be developed in accordance with the approved layout plan.

3. The water supply is to be from the OHT1 Water Works.

4. The water is to be recycled and used for various purposes.

5. The network is to be installed in accordance with the standards.

6. The flow direction is as indicated by the arrows.

7. The nodes are to be installed at the specified locations.

8. The plot connections are to be made as shown.

9. The butterfly valves are to be installed at the specified locations.

10. The scour valves are to be installed at the specified locations.

11. The air valves are to be installed at the specified locations.

12. The thrust blocks are to be installed at the specified locations.

13. The hume pipes are to be installed at the specified locations.

DRAWING NO.	TITLE	REV.	YYMMDD DATE	STATUS	DESCRIPTION	DES.	DRN.	INIT. CHECKED	SIGN. APPROVED

**CLIENT:** ANDHRA PRADESH INDUSTRIAL INFRASTRUCTURE CORPORATION LIMITED (APIIC)

**PROJECT:** SETTING UP OF BULK DRUG PARK AT NAKKAPALLI IN ANAKAPALLI DISTRICT, ANDHRA PRADESH

**TITLE:** RECYCLE WATER NETWORK

**PROJECT NO:** C1232704

**CDP:** [Blank]

**SCALE:** NTS@A1

**DRAWING NO:** DDW600

**REV:** R0

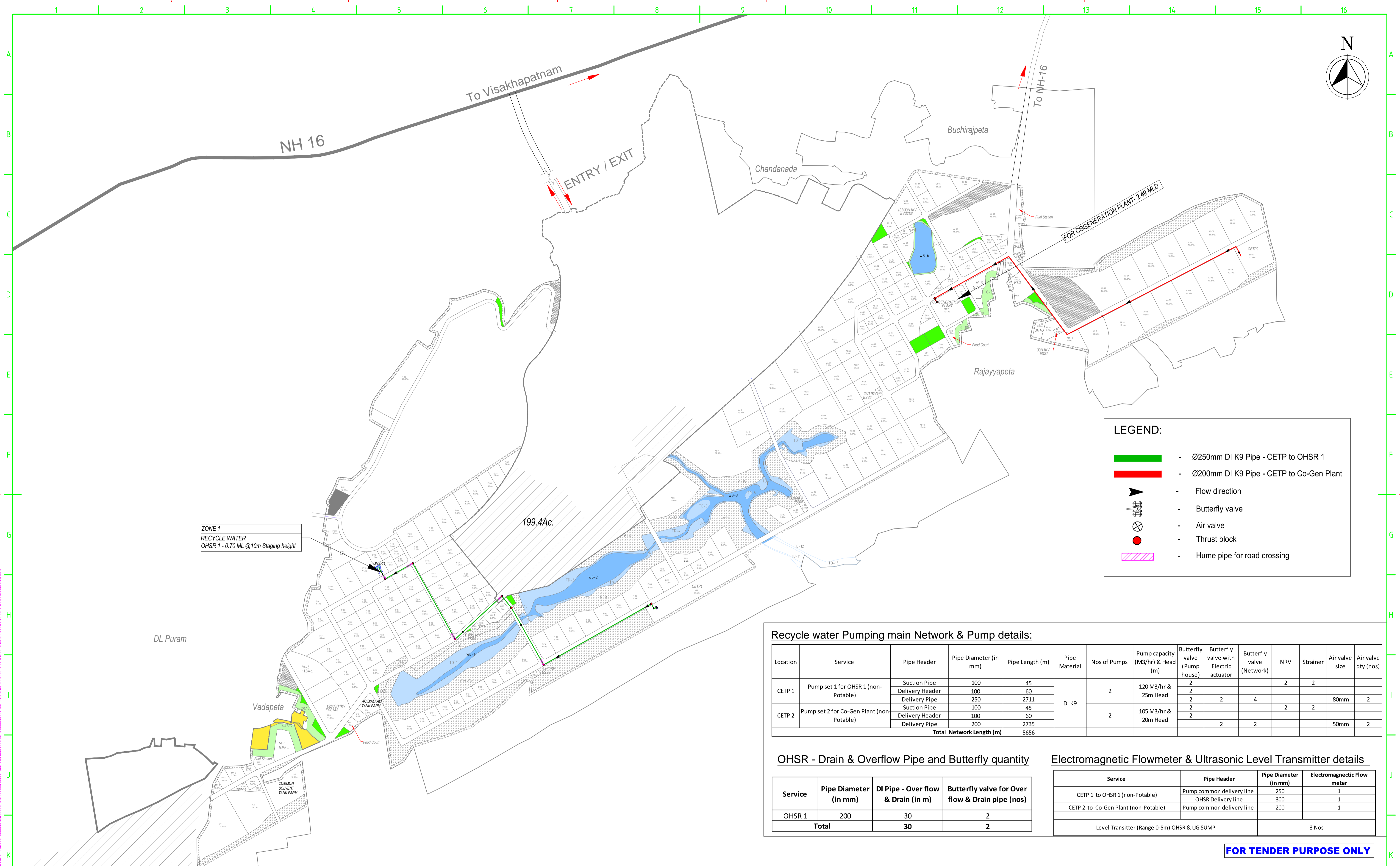
**STATUS CODES:** 1: PRELIMINARY 2: FOR APPROVAL 3: GOOD FOR CONSTRUCTION 4: [Blank]

**COMPANIES:** L&T Infrastructure Engineering Ltd. IN CONSORTIUM WITH ARTELIA

**DATE:** 15/08/2024

**SCALE:** 1:100





**LEGEND:**

- Ø250mm DI K9 Pipe - CETP to OHSR 1
- Ø200mm DI K9 Pipe - CETP to Co-Gen Plant
- Flow direction
- Butterfly valve
- Air valve
- Thrust block
- Hume pipe for road crossing

**Recycle water Pumping main Network & Pump details:**

Location	Service	Pipe Header	Pipe Diameter (in mm)	Pipe Length (m)	Pipe Material	Nos of Pumps	Pump capacity (M3/hr) & Head (m)	Butterfly valve (Pump house)	Butterfly valve with Electric actuator	Butterfly valve (Network)	NRV	Strainer	Air valve size	Air valve qty (nos)
CETP 1	Pump set 1 for OHSR 1 (non-Potable)	Suction Pipe	100	45	DI K9	2	120 M3/hr & 25m Head	2			2	2		
		Delivery Header	100	60										
		Delivery Pipe	250	2711										
CETP 2	Pump set 2 for Co-Gen Plant (non-Potable)	Suction Pipe	100	45	DI K9	2	105 M3/hr & 20m Head	2			2	2	80mm	2
		Delivery Header	100	60										
		Delivery Pipe	200	2735									50mm	2
<b>Total Network Length (m)</b>				5656										

**OHSR - Drain & Overflow Pipe and Butterfly quantity**

Service	Pipe Diameter (in mm)	DI Pipe - Over flow & Drain (in m)	Butterfly valve for Over flow & Drain pipe (nos)
OHSR 1	200	30	2
<b>Total</b>		<b>30</b>	<b>2</b>

**Electromagnetic Flowmeter & Ultrasonic Level Transmitter details**

Service	Pipe Header	Pipe Diameter (in mm)	Electromagnetic Flow meter
CETP 1 to OHSR 1 (non-Potable)	Pump common delivery line	250	1
	OHSR Delivery line	300	1
CETP 2 to Co-Gen Plant (non-Potable)	Pump common delivery line	200	1
Level Transmitter (Range 0-5m) OHSR & UG SUMP			3 Nos

**FOR TENDER PURPOSE ONLY**

**NOTES**

REV.	YYMMDD DATE	STATUS	DESCRIPTION	DES.	DRN.	INIT. CHECKED	SIGN. APPROVED

**CLIENT:** ANDHRA PRADESH INDUSTRIAL INFRASTRUCTURE CORPORATION LIMITED (APIIC)

**PROJECT:** SETTING UP OF BULK DRUG PARK AT NAKKAPALLI IN ANAKAPALLI DISTRICT, ANDHRA PRADESH

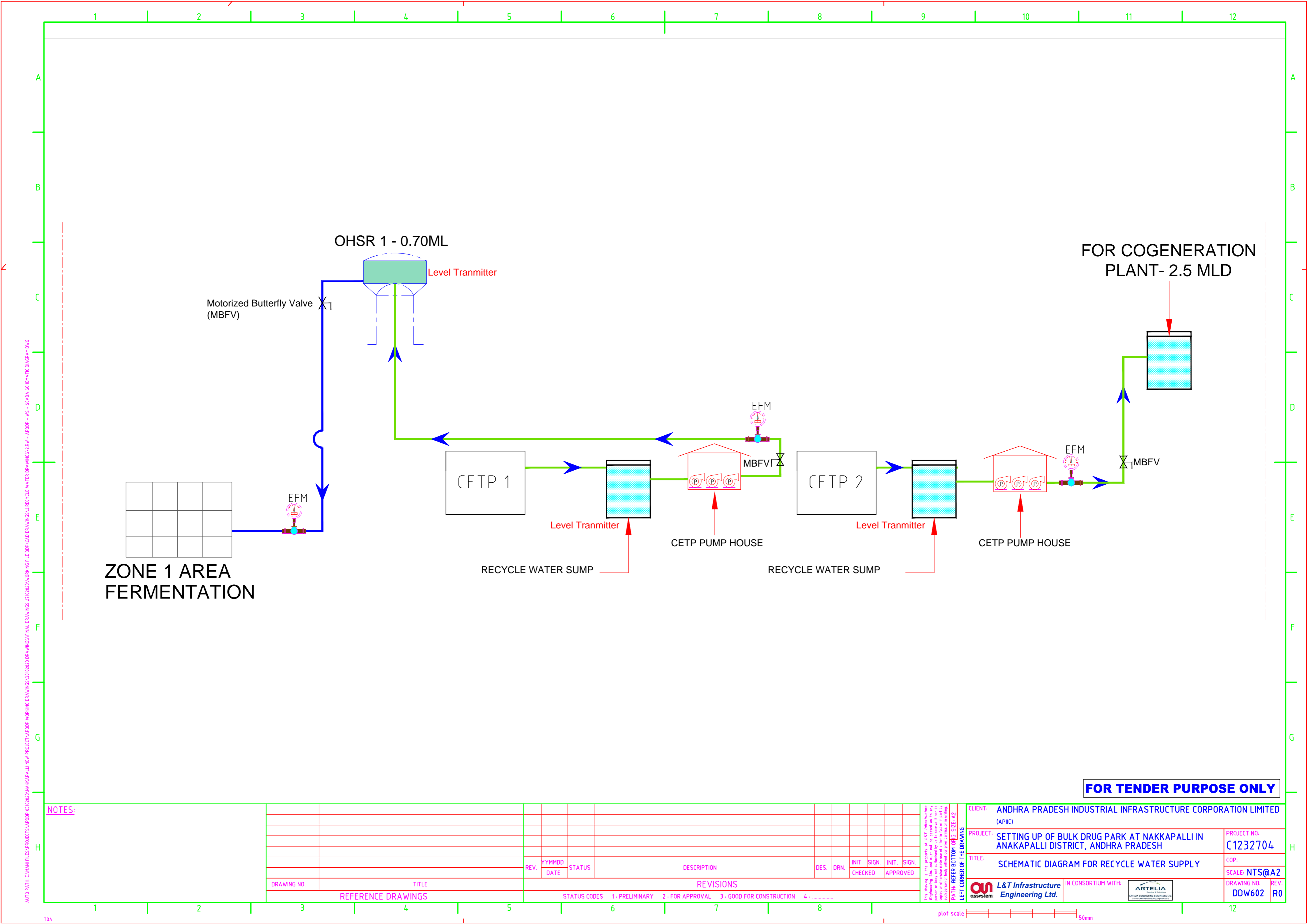
**TITLE:** RECYCLE WATER PUMPING MAIN ALIGNMENT

**PROJECT NO:** C1232704

**SCALE:** NTS@A1

**DRAWING NO:** DDW601 **REV:** R0

**COMPANIES:** L&T Infrastructure Engineering Ltd. IN CONSORTIUM WITH ARTELIA



**FOR TENDER PURPOSE ONLY**

NOTES:

REV.	YYMMDD DATE	STATUS	DESCRIPTION	DES.	DRN.	INIT. CHECKED	SIGN. APPROVED	INIT.	SIGN.
DRAWING NO.	TITLE			REVISIONS					
	REFERENCE DRAWINGS			STATUS CODES 1: PRELIMINARY 2: FOR APPROVAL 3: GOOD FOR CONSTRUCTION 4: .....					

CLIENT: ANDHRA PRADESH INDUSTRIAL INFRASTRUCTURE CORPORATION LIMITED (APIIC)

PROJECT: SETTING UP OF BULK DRUG PARK AT NAKKAPALLI IN ANAKAPALLI DISTRICT, ANDHRA PRADESH

TITLE: SCHEMATIC DIAGRAM FOR RECYCLE WATER SUPPLY

PROJECT NO: C1232704

COP: NTS@A2

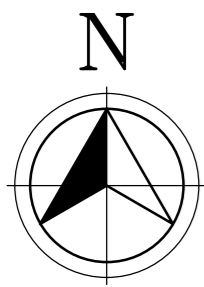
DRAWING NO: DDW602

REV: R0

L&T Infrastructure Engineering Ltd. IN CONSORTIUM WITH: ARTELIA ENGINEERING LTD.



AUTO PATH: E:\NANI FILES\PROJECTS\SAPBPDP\_03102023\NAKKAPALLI NEW PROJECT\APBPDP\_WORKING DRAWINGS\10102023 DRAWINGS\FINAL DRAWINGS\2 RECYCLE WATER DRAWINGS\DWG - APBPDP - WS - SCADA SCHEMATIC DIAGRAM.DWG



**ZONE 1**  
**RECYCLE WATER**  
**OHSR 1 - 0.70 ML @10m Staging height**

199.4Ac.

**LEGEND:**  
 - Zone-1

**FOR TENDER PURPOSE ONLY**

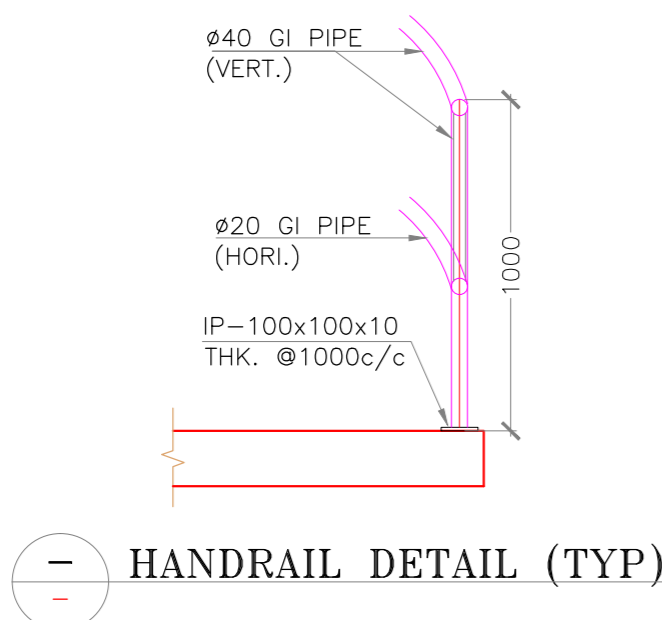
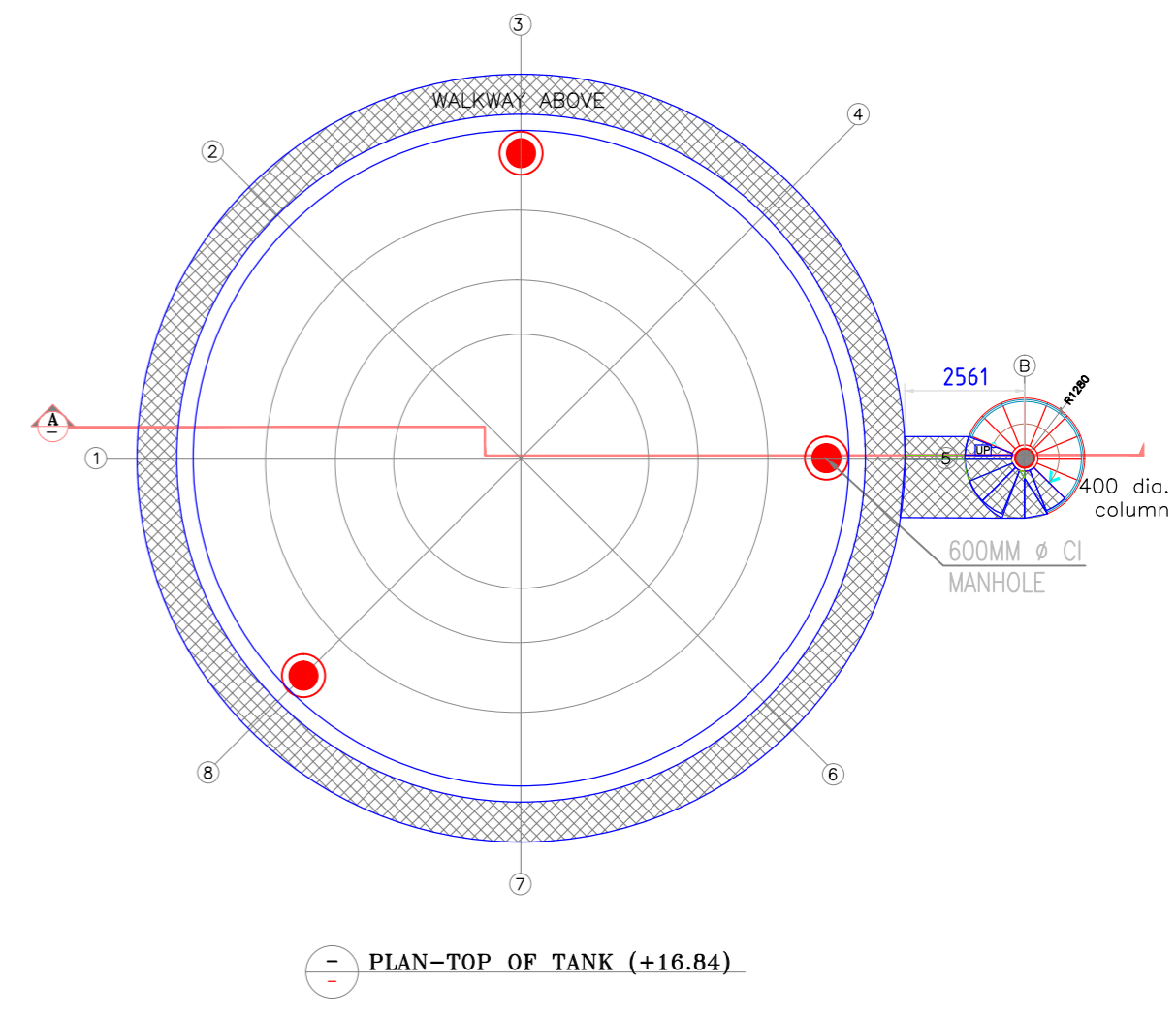
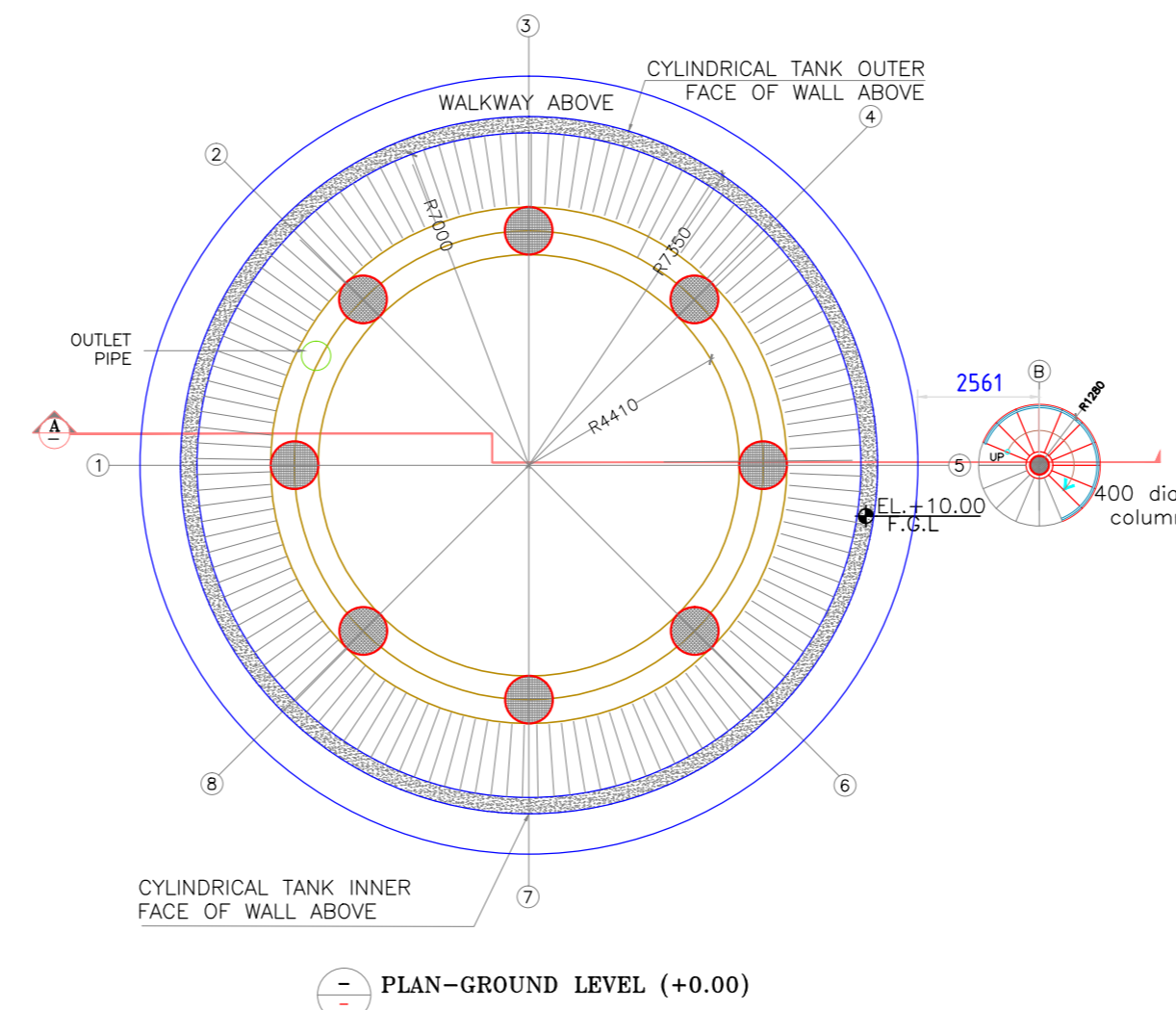
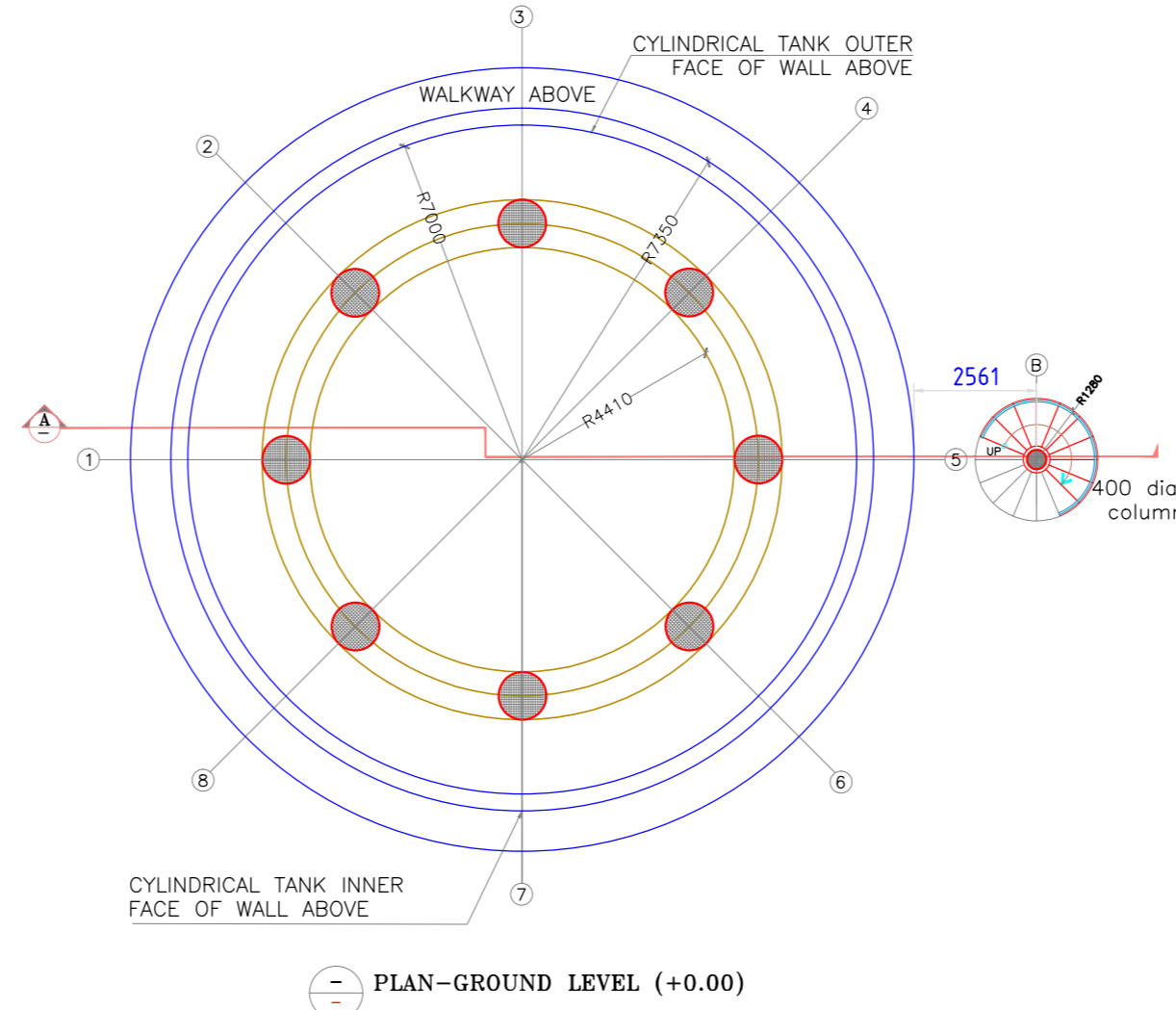
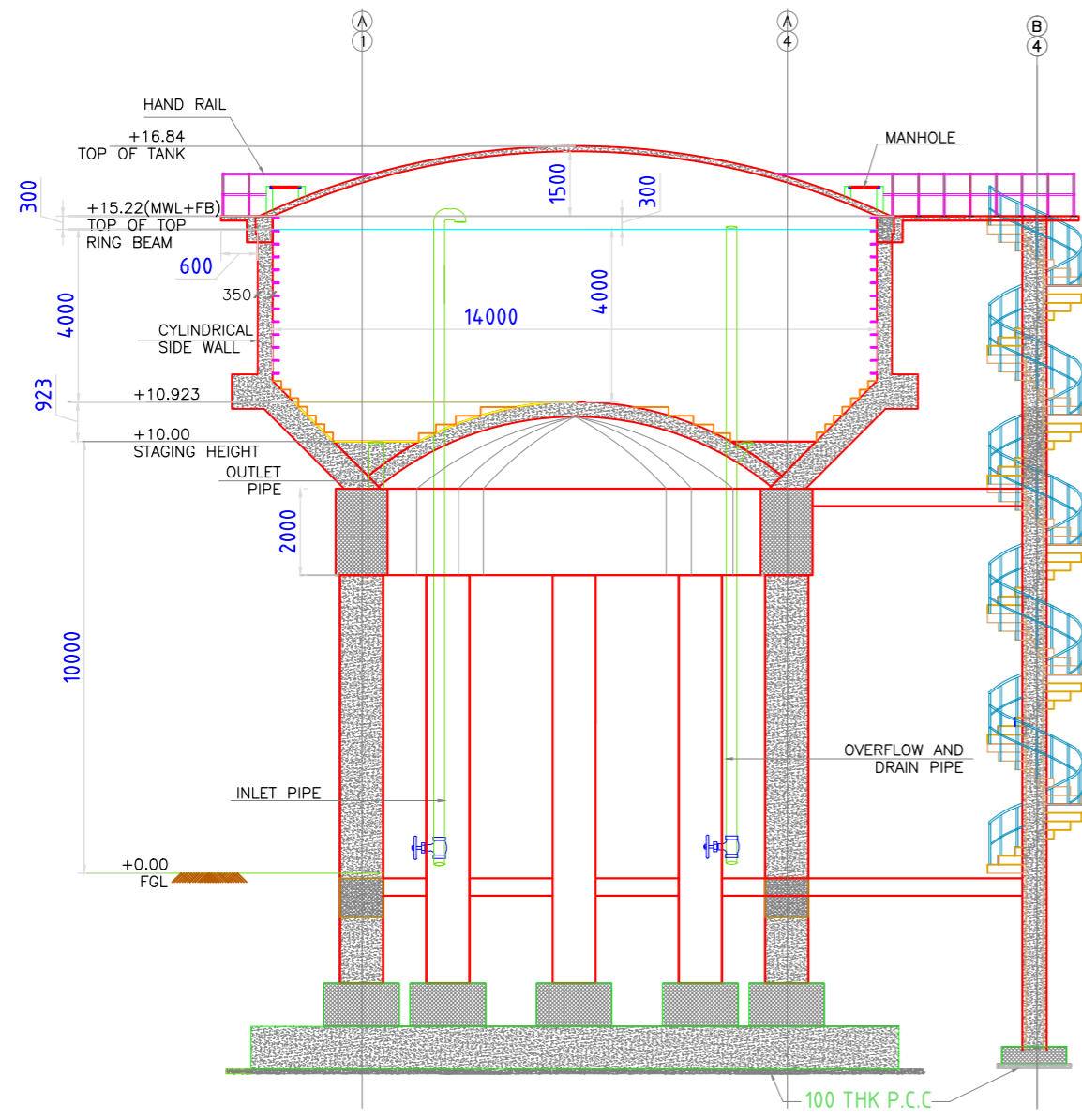
NOTES:

REV.	YYMMDD	DATE	STATUS	DESCRIPTION	DES.	DRN.	INIT.	SIGN.	INIT.	SIGN.
DRAWING NO.				TITLE		REVISIONS				
				REFERENCE DRAWINGS		STATUS CODES 1: PRELIMINARY 2: FOR APPROVAL 3: GOOD FOR CONSTRUCTION 4: .....				

CLIENT: ANDHRA PRADESH INDUSTRIAL INFRASTRUCTURE CORPORATION LIMITED (APIIC)		PROJECT NO: C1232704
PROJECT: SETTING UP OF BULK DRUG PARK AT NAKKAPALLI IN ANAKAPALLI DISTRICT, ANDHRA PRADESH		COP: NTS@A2
TITLE: RECYCLE WATER NETWORK ZONING		DRAWING NO: DDW603
IN CONSORTIUM WITH:		REV: R0



AUTO PATH E:\M\N\I\FILES\PROJECTS\APBOP\0302022\N\N\K\K\A\P\ALL\NEW PROJECT\APBOP\WORKING DRAWINGS\FINAL DRAWINGS\2 RECYCLE WATER DRAWINGS\TRW - APBOP - WS - ZONING.DWG



- NOTES:-
- GRADE OF CONCRETE IS M30, GRADE OF STEEL REINF. IS FE 500
  - CLEAR COVER FOR RCC MEMBERS, FOR DOMES 20 mm, WALLS 25 mm, BEAMS 30 mm, COLUMNS 40 mm, RAFT SLAB 40 mm, RAFT BEAM 60 mm.
  - PROVIDE SUITABLE STEEL CHAIRS UNDER THE TOP MESH OF REINF. TO SEPARATE THE TWO LAYERS OF REINF. PROVIDED AT TOP & BOTTOM OF DOMES.
  - PROVIDE HORIZONTAL LINKS @ 1 MET INTERVALS IN WALLS TO SEPARATE THE TWO LAYERS OF REINF. PROVIDED IN OUTER & INNER FACES OF WALL.
  - PROVIDE SLEEVES FOR ALL PIPE CONNECTIONS BEFORE CONCRETING.
  - SAFE BEARING CAPACITY OF FOUNDATION SOILS AT 3 MET. DEPTH IS CONSIDERED AS 150 kN/sqm
  - WHICH SHALL BE VERIFIED BEFORE EXECUTION AND IF FOUND LESS THAN CONSIDERED REVISE THE SECTION OF RAFT FOOTING ACCORDINGLY.
  - PROVIDE A LAYER OF LEVELING COURSE IN CC 1:3:6 (M10 GRADE) FOR 150 mm THICK BELOW RAFT SLAB.
  - CONTINUOUS CURING SHALL BE DONE FOR AT LEAST 15 DAYS.
  - CONSTRUCTION JOINTS WHERE EVER REQUIRED SHALL BE LEFT IN SIDE WALL AS PER IS 3370 PARTS 1 & 2
  - AN ALUMINUM LADDER SHALL BE PROVIDED TO REACH THE BOTTOM OF TANK FROM TOP DOME.
  - ALL ACCESSORIES AS IN GA DRG. LIKE INLET, OUTLET OVER FLOW WASHOUT & VENT PIPES, MANHOLES AND LIGHTENING ARRESTER SHALL BE PROVIDED.

**FOR TENDER PURPOSE ONLY**

NOTES:

REV.	YYMMDD	STATUS	DESCRIPTION	DES.	DRN.	INIT.	SIGN.	INIT.	SIGN.
REVISIONS									
DRAWING NO. TITLE									
REFERENCE DRAWINGS									
STATUS CODES 1: PRELIMINARY 2: FOR APPROVAL 3: GOOD FOR CONSTRUCTION 4: .....									

CLIENT: ANDHRA PRADESH INDUSTRIAL INFRASTRUCTURE CORPORATION LIMITED (APIIC)

PROJECT: SETTING UP OF BULK DRUG PARK AT NAKKAPALLI IN ANAKAPALLI DISTRICT, ANDHRA PRADESH

TITLE: GENERAL ARRANGEMENT OF 700KL OHSR-1 RECYCLE WATER (10M STAGING HEIGHT)

PROJECT NO: C1232704

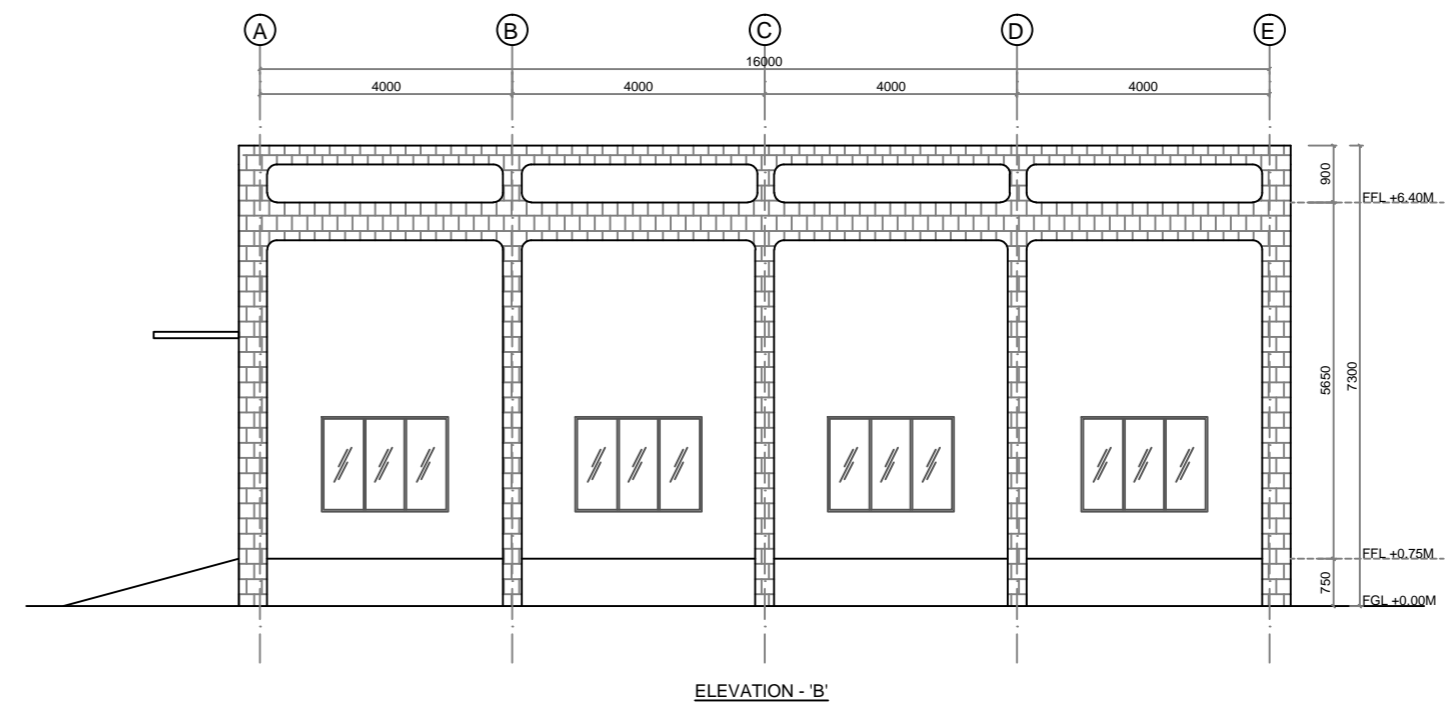
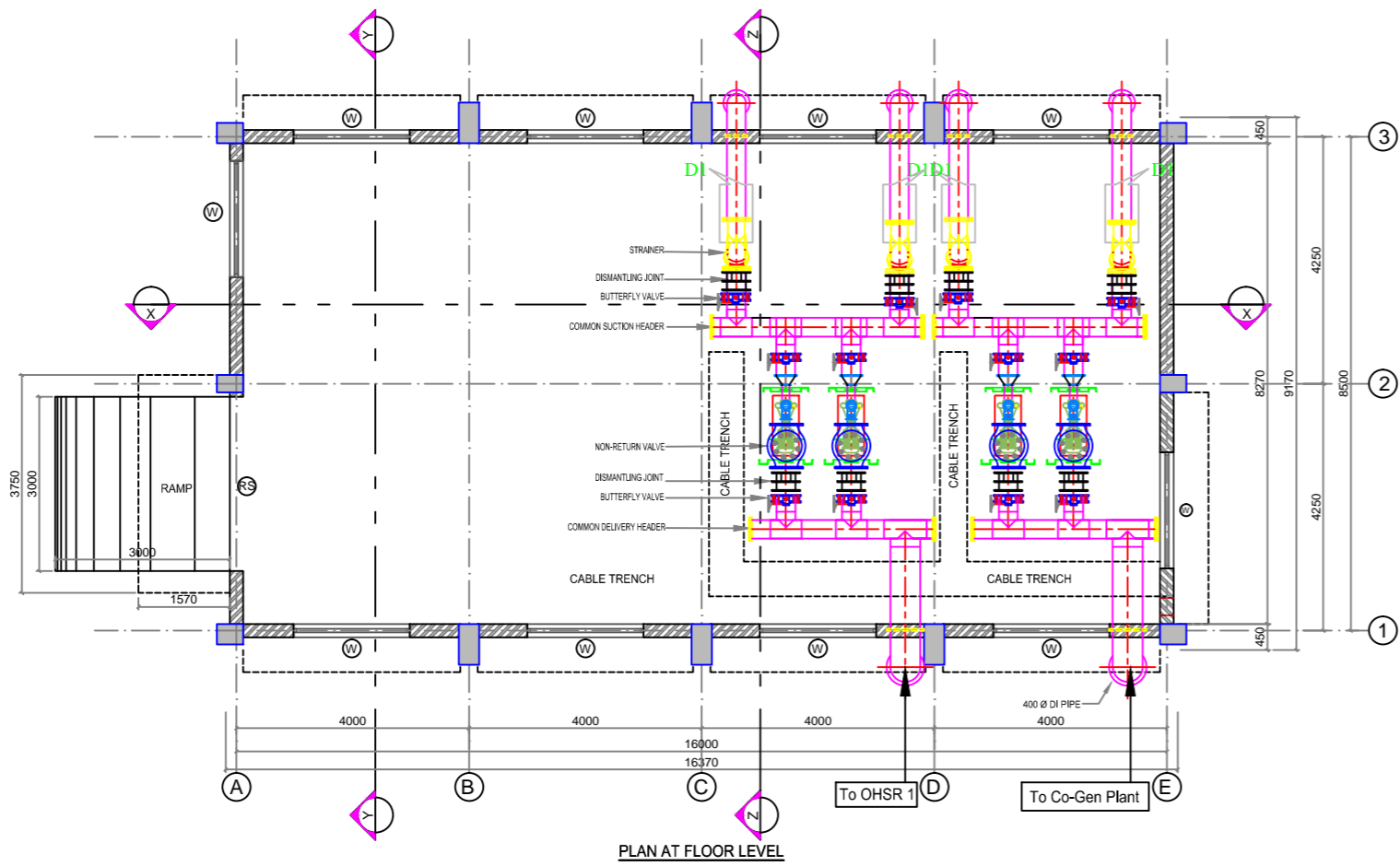
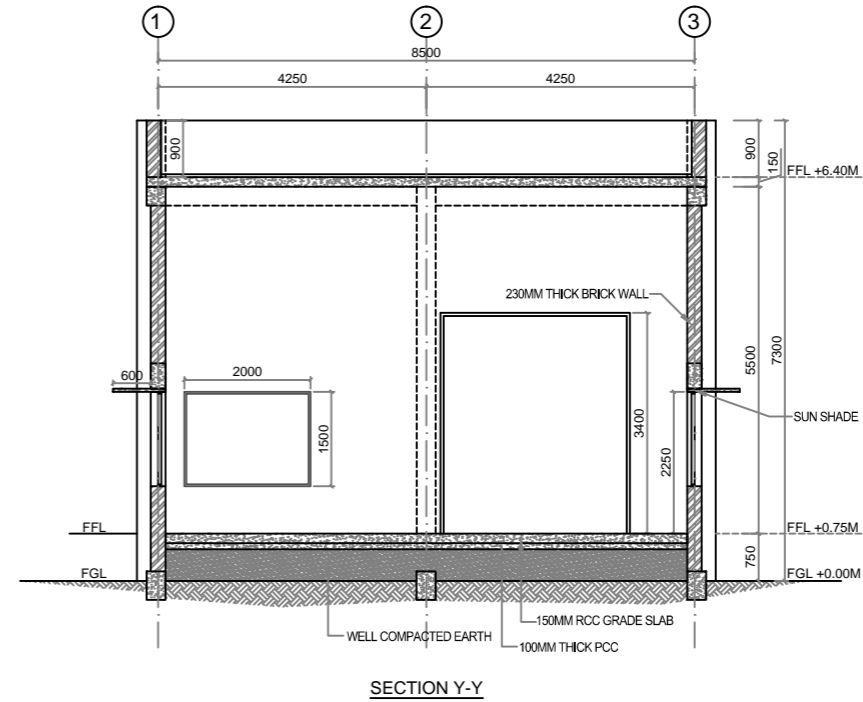
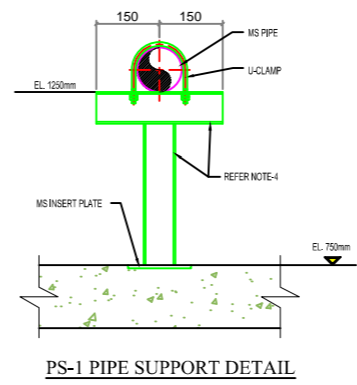
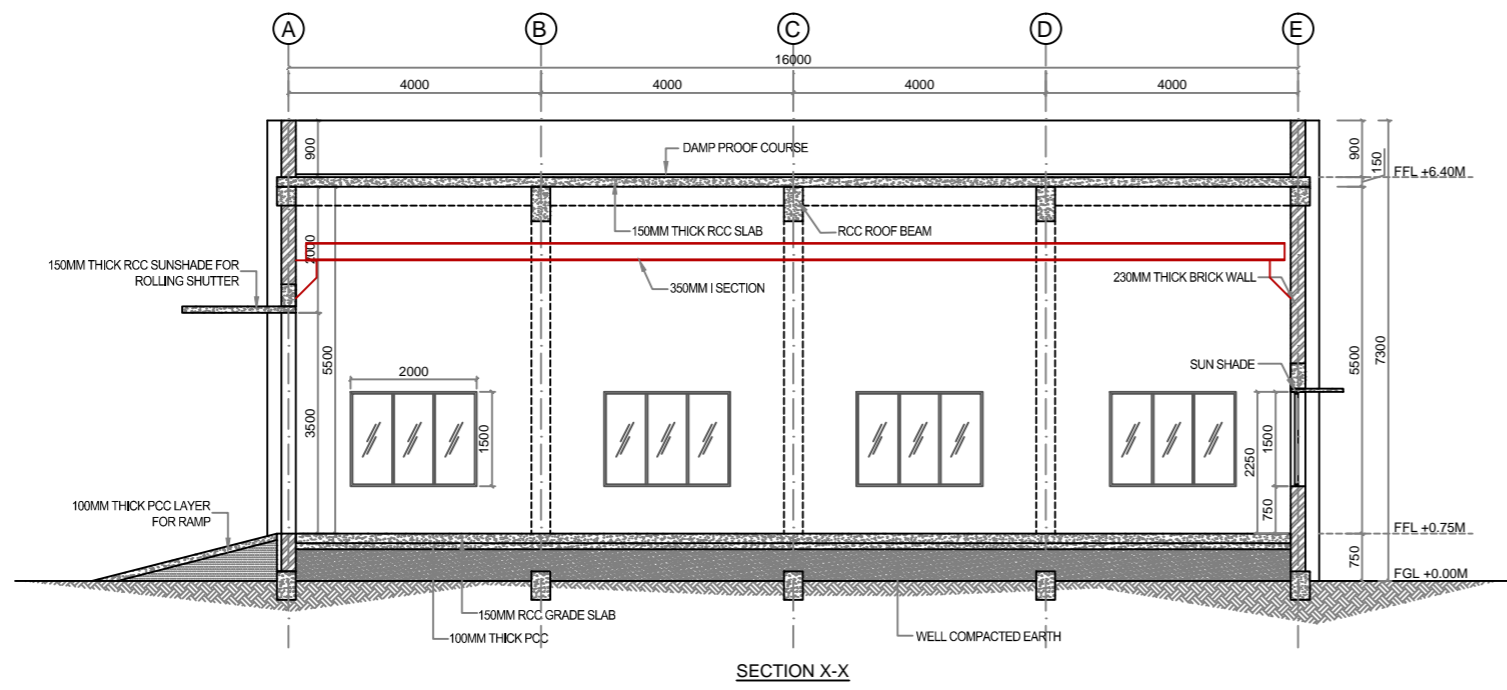
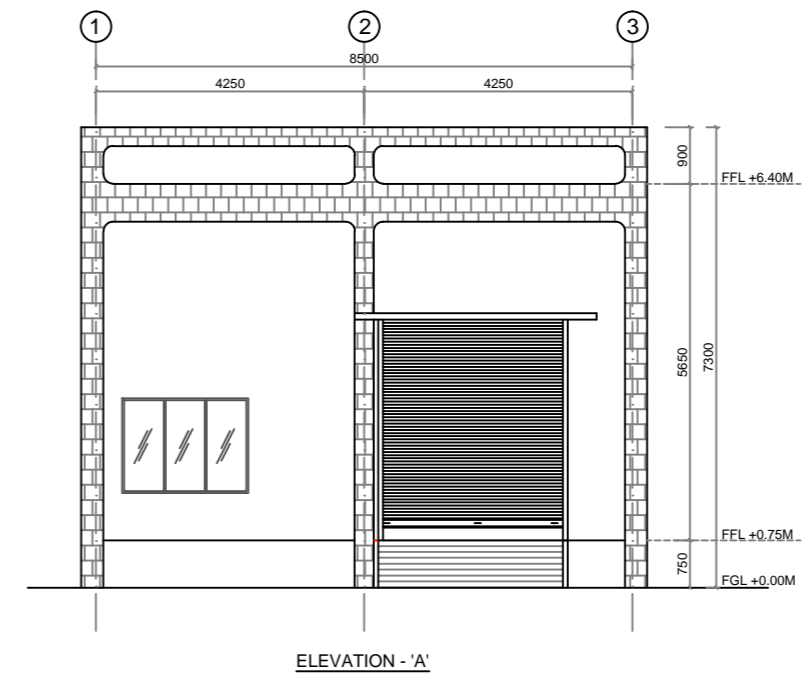
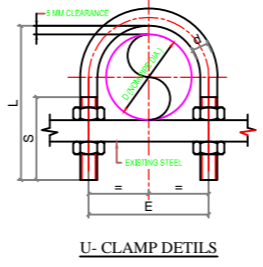
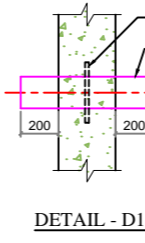
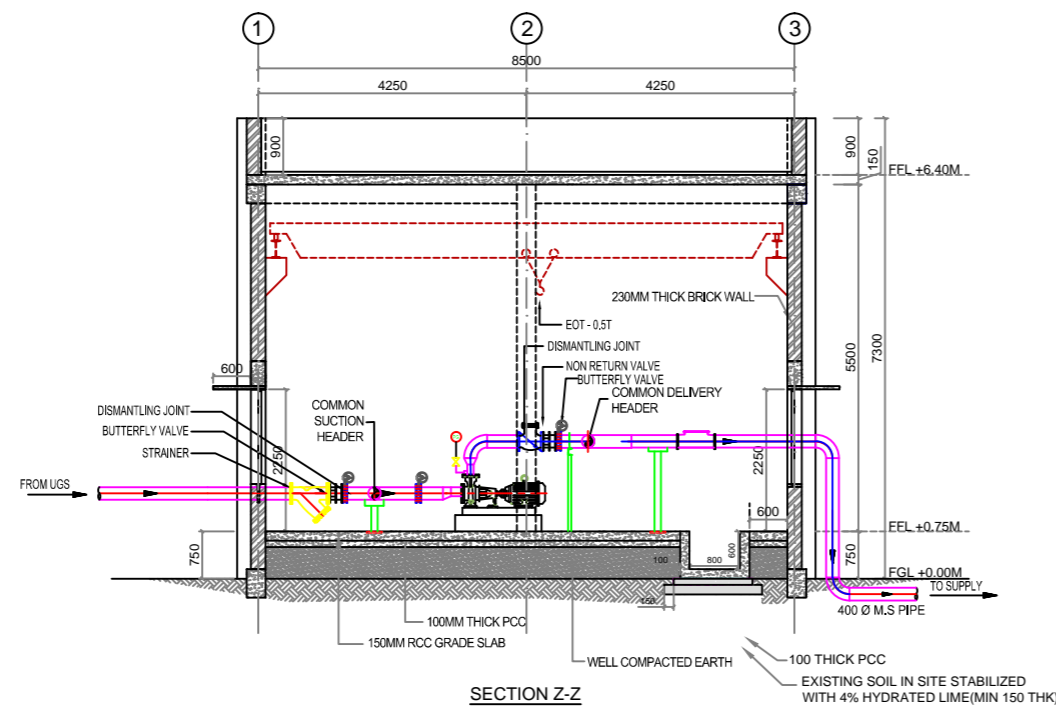
COP: SCALE: NTS@A2

DRAWING NO: DDW604

REV: R0

L&T Infrastructure Engineering Ltd. IN CONSORTIUM WITH ARTELIA

AUTO DATA ENHANCE FILES PROJECTS\APR\03\022\NAKKAPALLI NEW PROJECT\ARBP WORKING DRAWINGS\FINAL DRAWINGS\27102023\WORKING FILE\BP\CAD DRAWINGS\2 RECYCLE WATER DRAWINGS\DWG-DHR-1 (7000L) 10M-STAG.DWG



**FOR TENDER PURPOSE ONLY**

**NOTES:**

REV.	YYMMDD DATE	STATUS	DESCRIPTION	DES.	DRN.	INIT. CHECKED	SIGN. APPROVED
DRAWING NO.			TITLE				
			REFERENCE DRAWINGS				
STATUS CODES				1 : PRELIMINARY 2 : FOR APPROVAL 3 : GOOD FOR CONSTRUCTION 4 : .....			

This drawing is the property of L&T Infrastructure Engineering Ltd. and must not be passed on to any other person or used for any other project without the prior written permission of L&T Infrastructure Engineering Ltd.

CLIENT:	ANDHRA PRADESH INDUSTRIAL INFRASTRUCTURE CORPORATION LIMITED (APIIC)
PROJECT:	SETTING UP OF BULK DRUG PARK AT NAKKAPALLI IN ANAKAPALLI DISTRICT, ANDHRA PRADESH
TITLE:	GENERAL ARRANGEMENT DRAWING OF RECYCLE WATER PUMPROOM(16M X 8.5M)
LOCATION:	CETP
PROJECT NO.:	C1232704
COP:	
SCALE:	NTS@A2
DRAWING NO.:	DDW605
REV.:	R0

**L&T Infrastructure Engineering Ltd.** IN CONSORTIUM WITH **ARTELIA**

AUTO PLOT: BDPPEX171

plot scale: 1:50mm



**Nodal Agency**

**Andhra Pradesh Industrial Infrastructure Corporation Limited**

**Implementing Agency**

**AP Bulk Drug Infrastructure Corp. Ltd**

**APIIC Towers, 9<sup>th</sup> Floor, IT Park, Mangalagiri, Guntur District- 522 503  
Andhra Pradesh**