

UGR BOUNDRY	
DMA BOUNDRY	
METRO LINE	===
COMPUND WALL & PROPERTIES WALL	
FENCE	-00-
ROAD (BITUMINOUS /CONCRETE)	
UGR	
PARK	
BUILDING	
CANAL/DRAIN	
RAILWAY LINE	++++++
FOOTPATH	
WATER BODY	
EXISTING DMA FEEDER MAIN	
PROPOSED DMA FEEDER MAIN	
DISTRIBUTION PIPE LINE (RETAINED/NEW)	
JUNCTION	
ISOLATION VALVE	C
NODE NO	J>
DMA NO	H-C
PRESSURE REDUCING VALVE	
BUTTERFLY VALVE	B
BULK METER (DMA)	B
WASHOUT VALVE	()
PRESSURE MONITORING POINT	P

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LEGEND:-

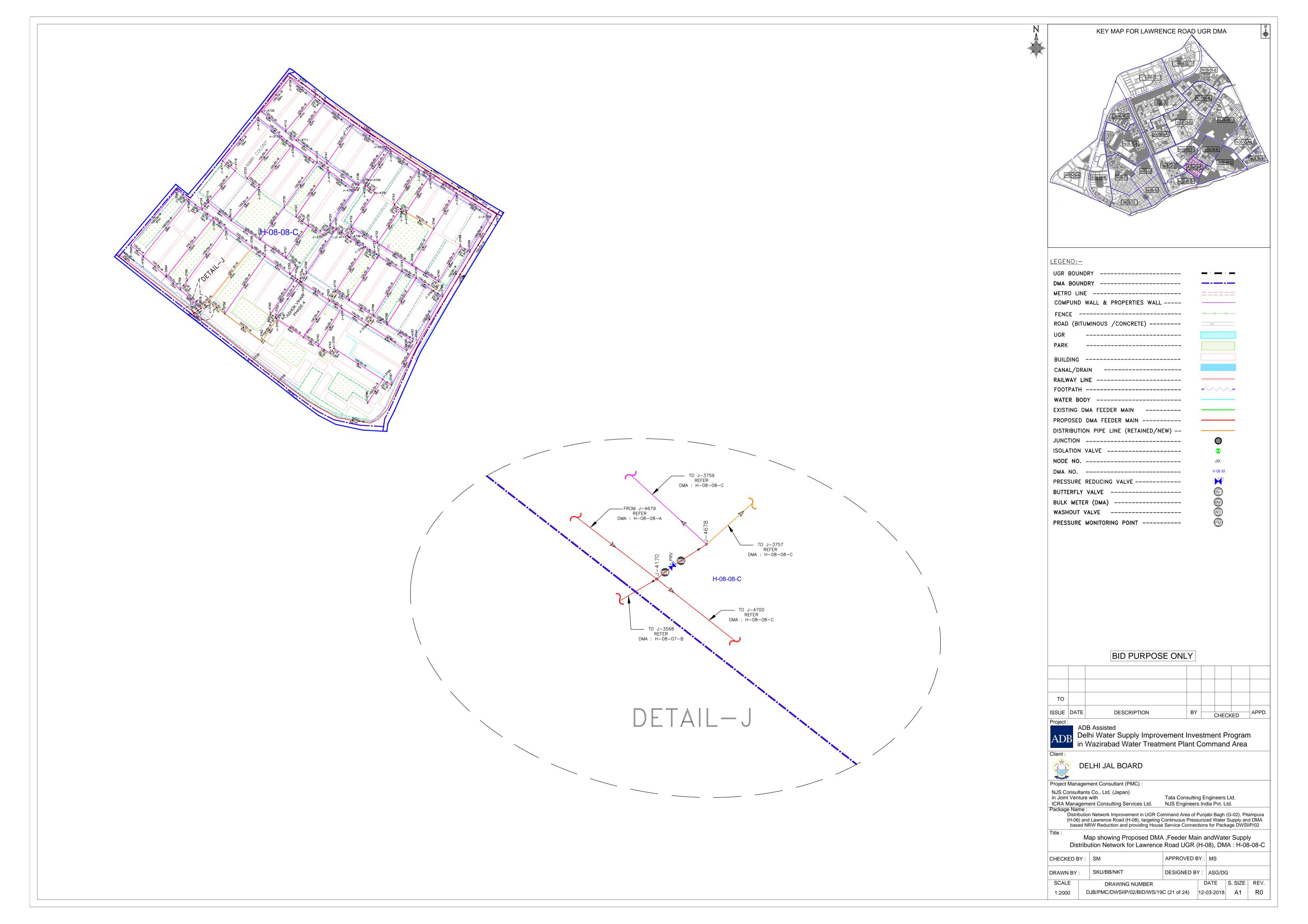
Delhi Water Supply Improvement Investment Program in Wazirabad Water Treatment Plant Command Area

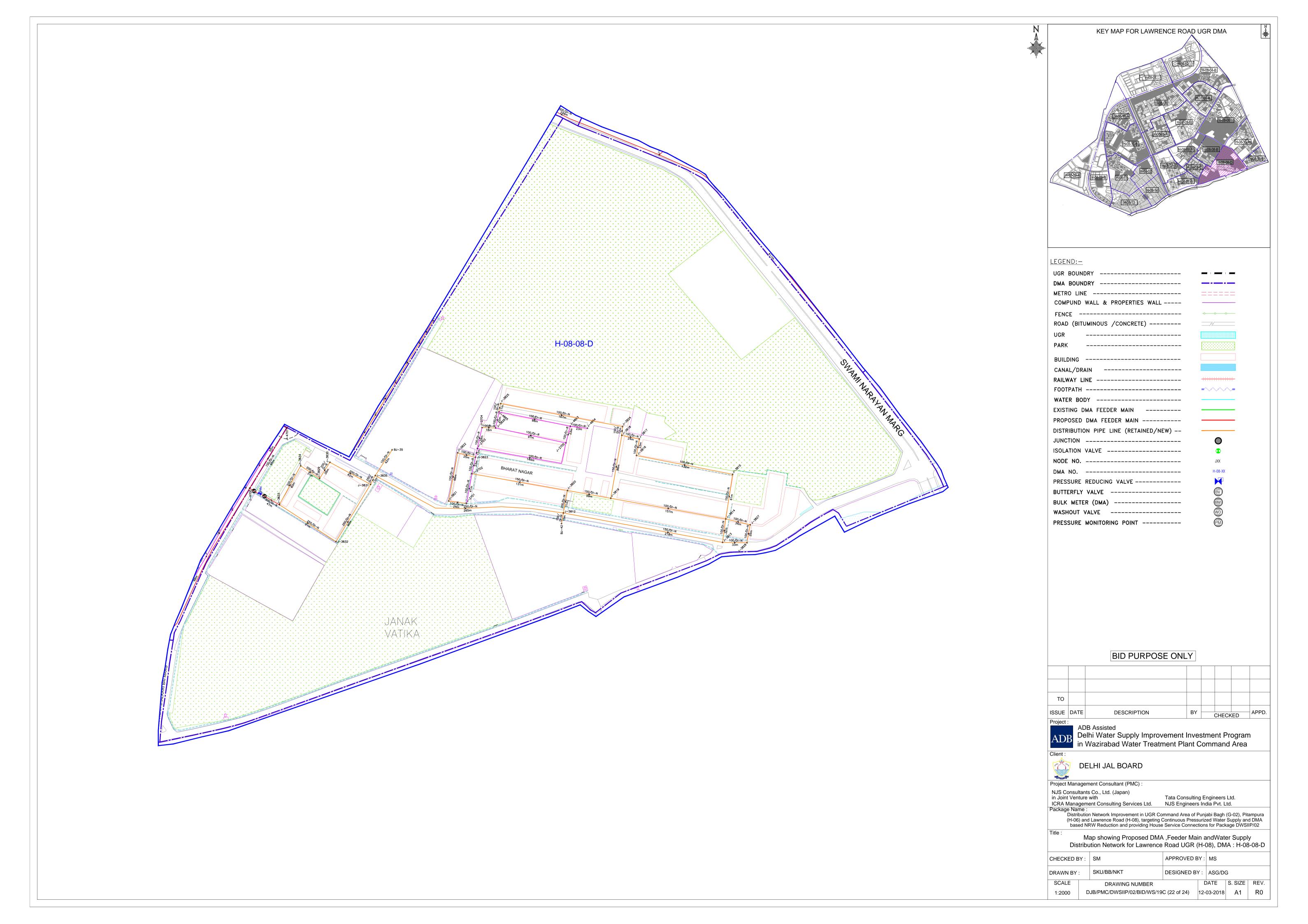
DELHI JAL BOARD Project Management Consultant (PMC):

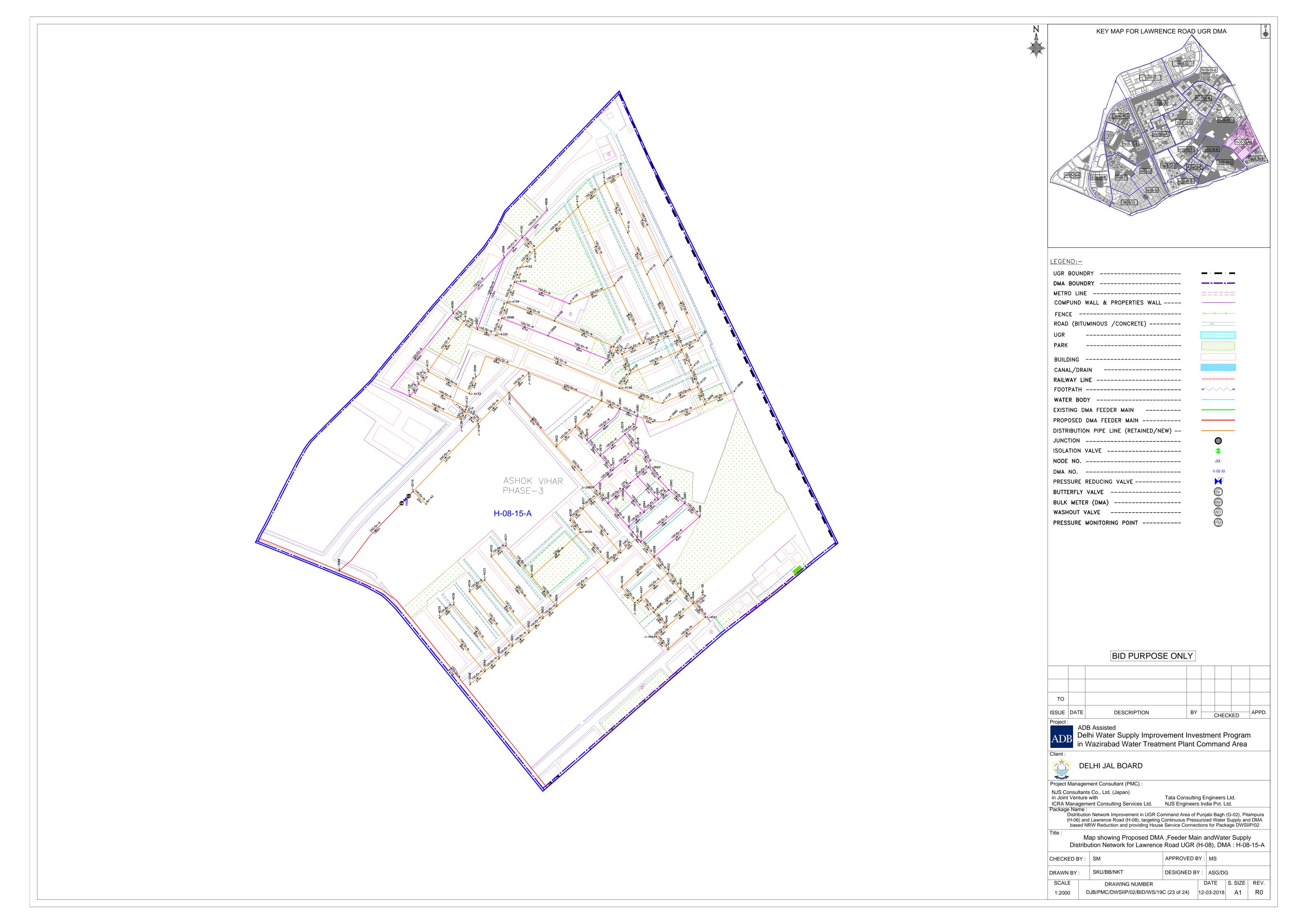
NJS Consultants Co., Ltd. (Japan)
in Joint Venture with Tata Consulting Engineers Ltd.
ICRA Management Consulting Services Ltd. NJS Engineers India Pvt. Ltd.
Package Name:
Distribution Network Improvement in UGR Command Area of Punjabi Bagh (G-02), Pitampura (H-06) and Lawrence Road (H-08), targeting Continuous Pressurized Water Supply and DMA based NRW Reduction and providing House Service Connections for Package DWSIIP/02

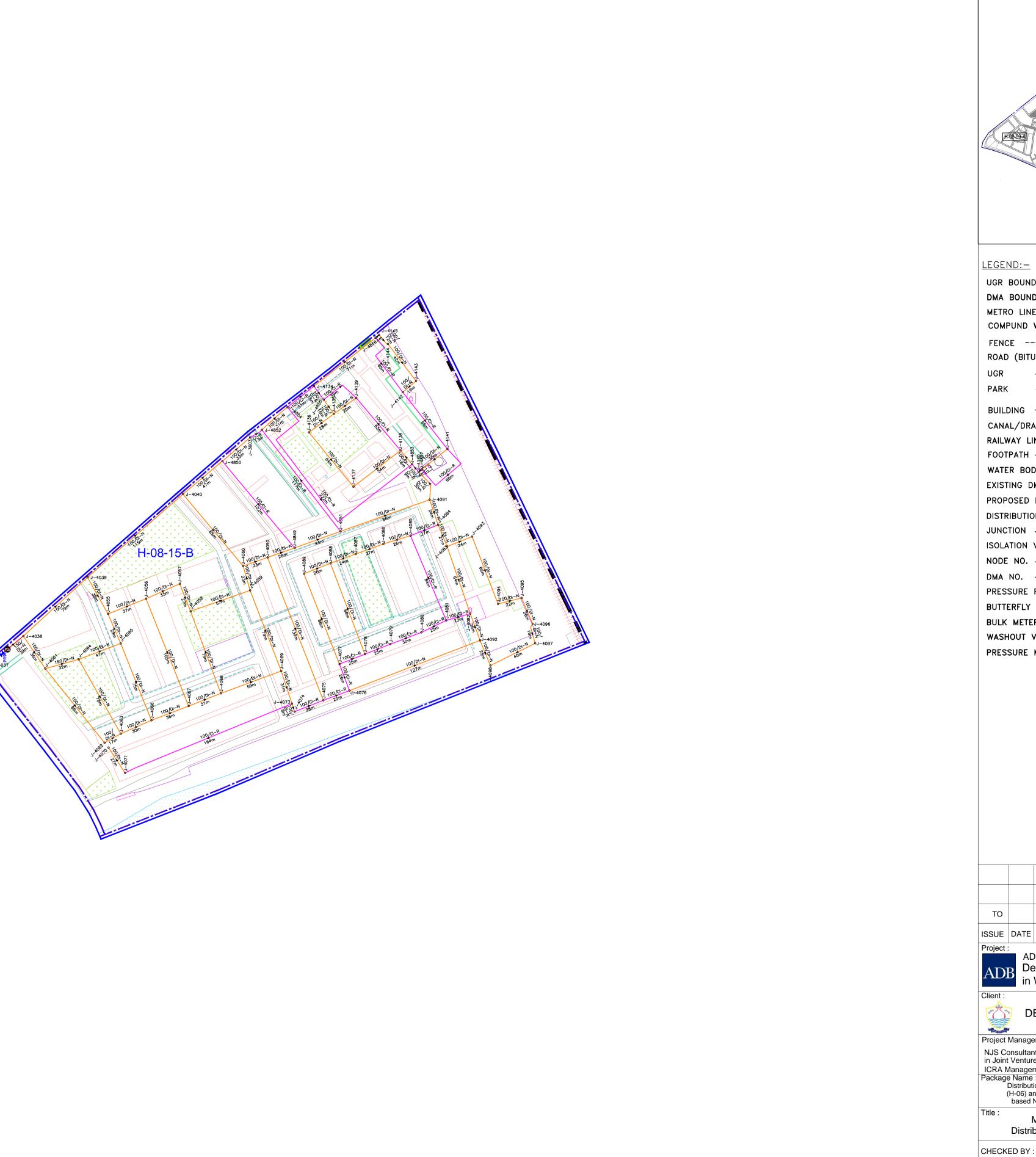
Map showing Proposed DMA ,Feeder Main andWater Supply
Distribution Network for Lawrence Road LIGR (H-08), DMA : H-08-08-8

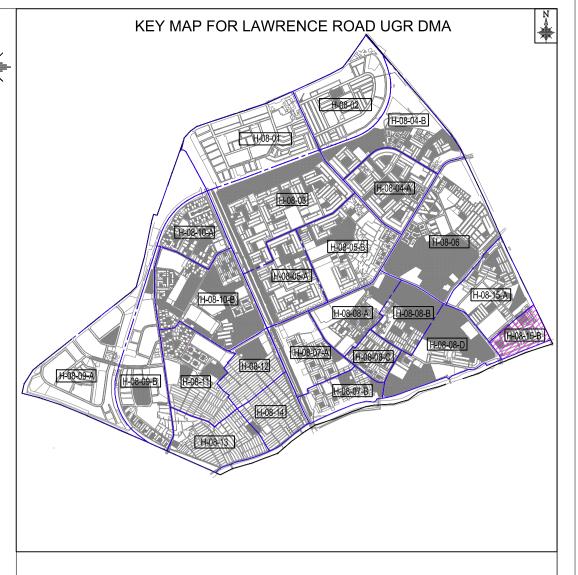
	Road UGR (H-(08), DM	IA : H-08	8-08-B			
	CHECKED B	3Y :	SM	APPROVED BY : MS				
	DRAWN BY	:	SKU/BB/NKT	DESIGNED B	GNED BY: ASG/DG			
	SCALE		DRAWING NUMBER			DATE	S. SIZE	REV.
	1:2000	D	JB/PMC/DWSIIP/02/BID/WS/19	OC (20 of 24)	12-	03-2018	A1	R0

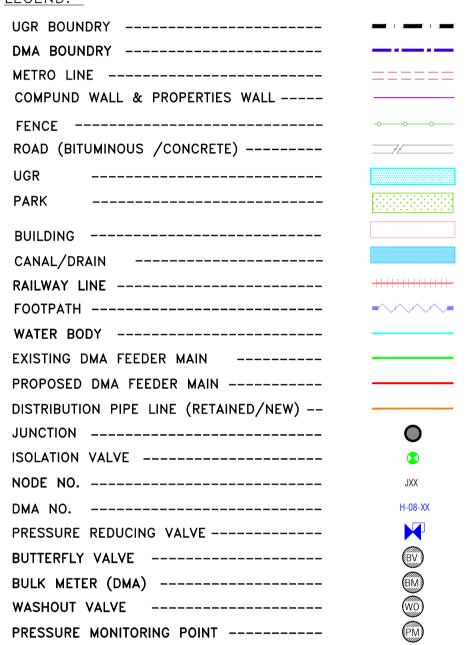












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ADB Delhi Water Supply Improvement Investment Program in Wazirabad Water Treatment Plant Command Area

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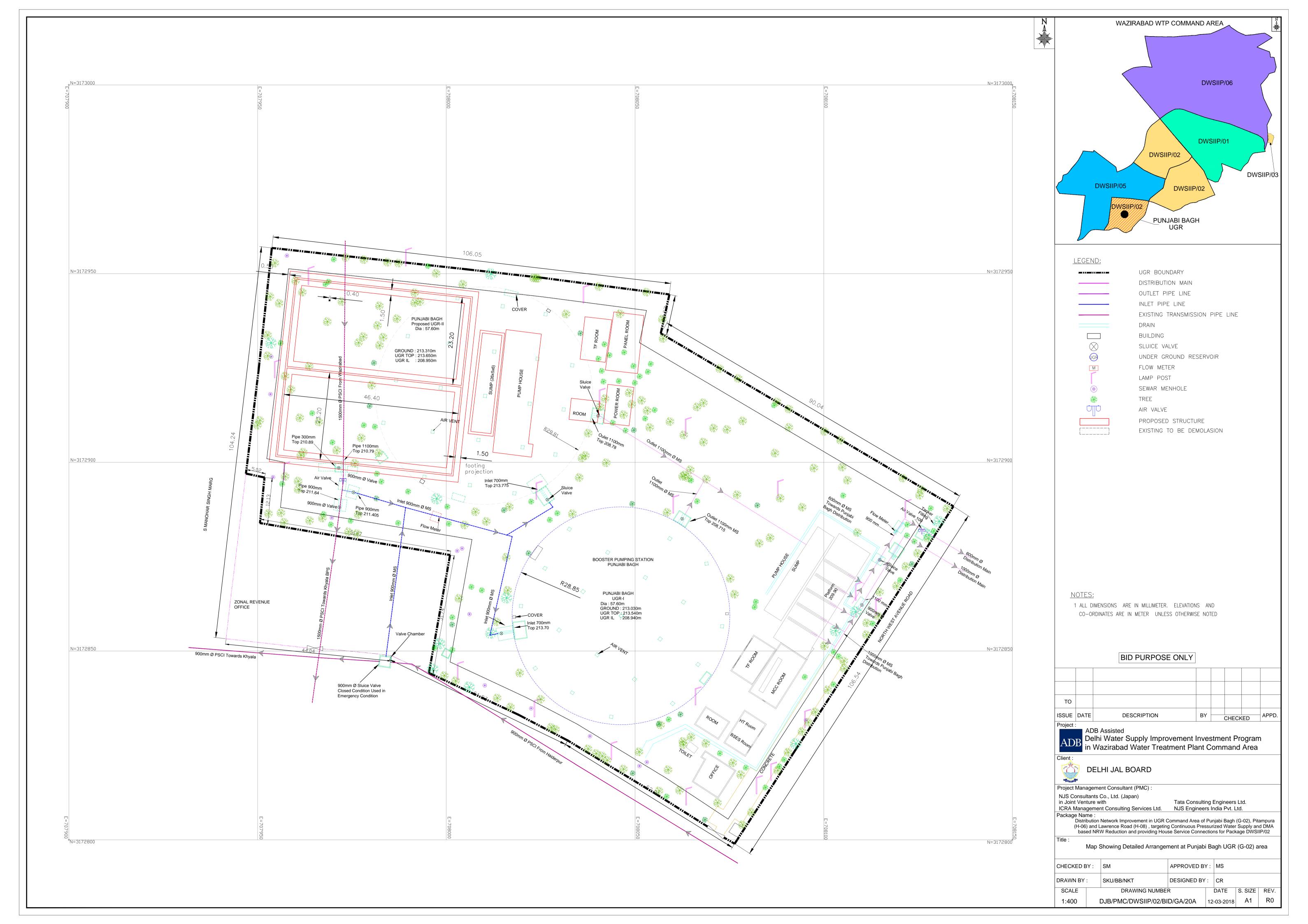
In Joint Venture with
ICRA Management Consulting Services Ltd.
Package Name:

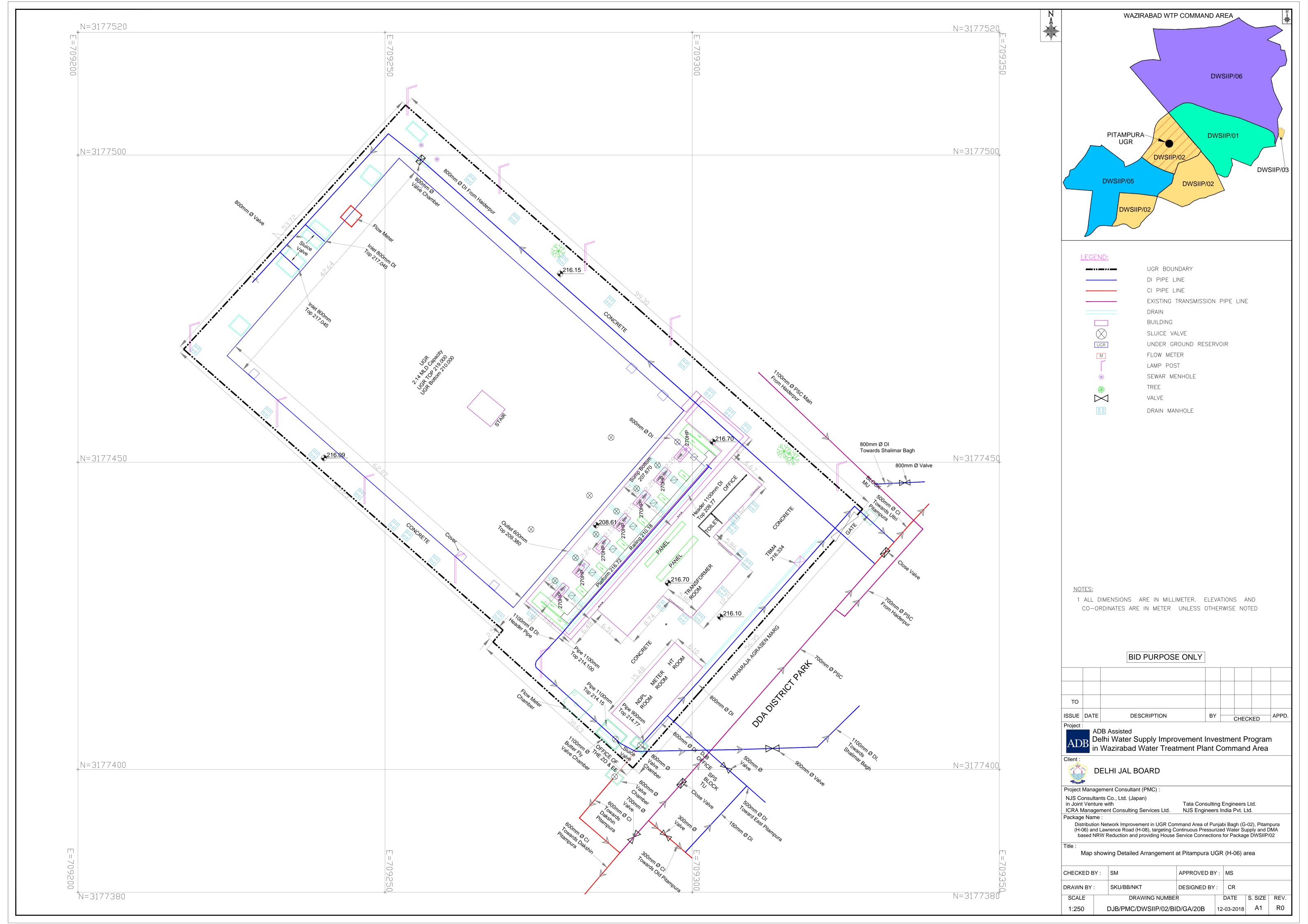
Tata Consulting Engineers Ltd.
NJS Engineers India Pvt. Ltd.

Distribution Network Improvement in UGR Command Area of Punjabi Bagh (G-02), Pitampura (H-06) and Lawrence Road (H-08), targeting Continuous Pressurized Water Supply and DMA based NRW Reduction and providing House Service Connections for Package DWSIIP/02 Map showing Proposed DMA ,Feeder Main andWater Supply

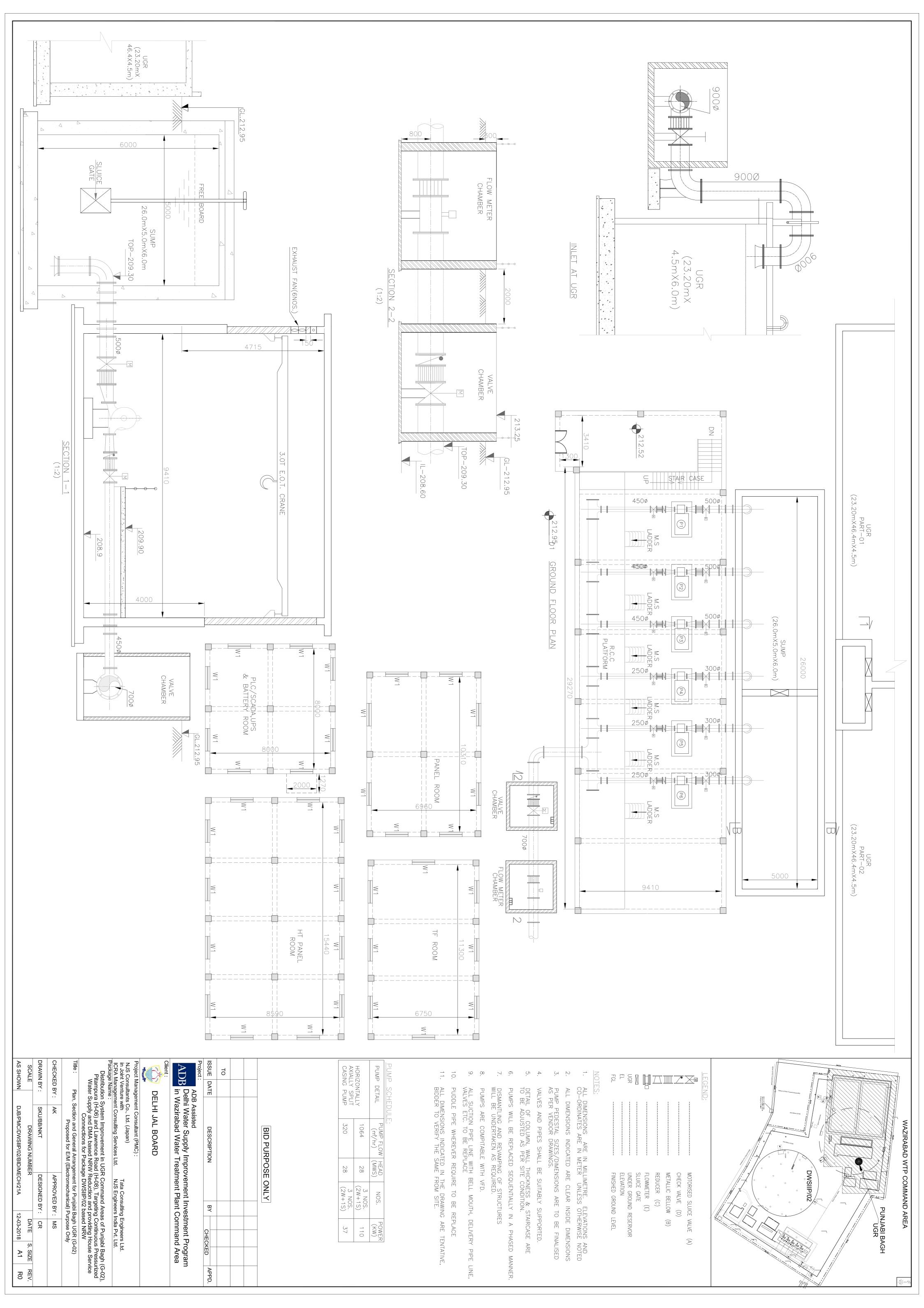
Distribution Network for Lawrence Road UGR (H-08), DMA: H-08-15-B CHECKED BY: SM APPROVED BY: MS

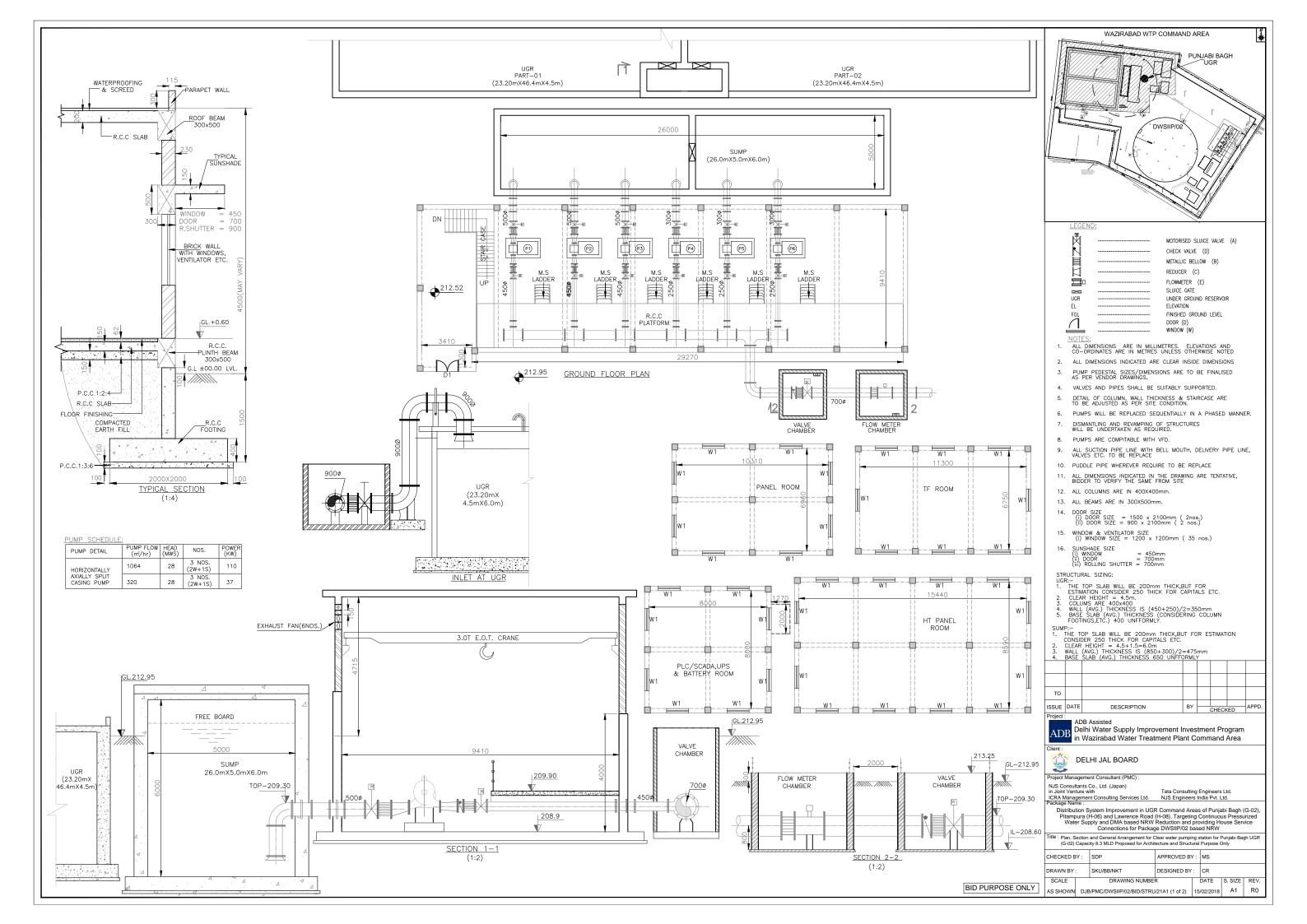
SKU/BB/NKT DRAWN BY: DESIGNED BY : | ASG/DG SCALE DATE S. SIZE REV. DRAWING NUMBER DJB/PMC/DWSIIP/02/BID/WS/19C (24 of 24) | 12-03-2018 | A1 | R0 1:2000

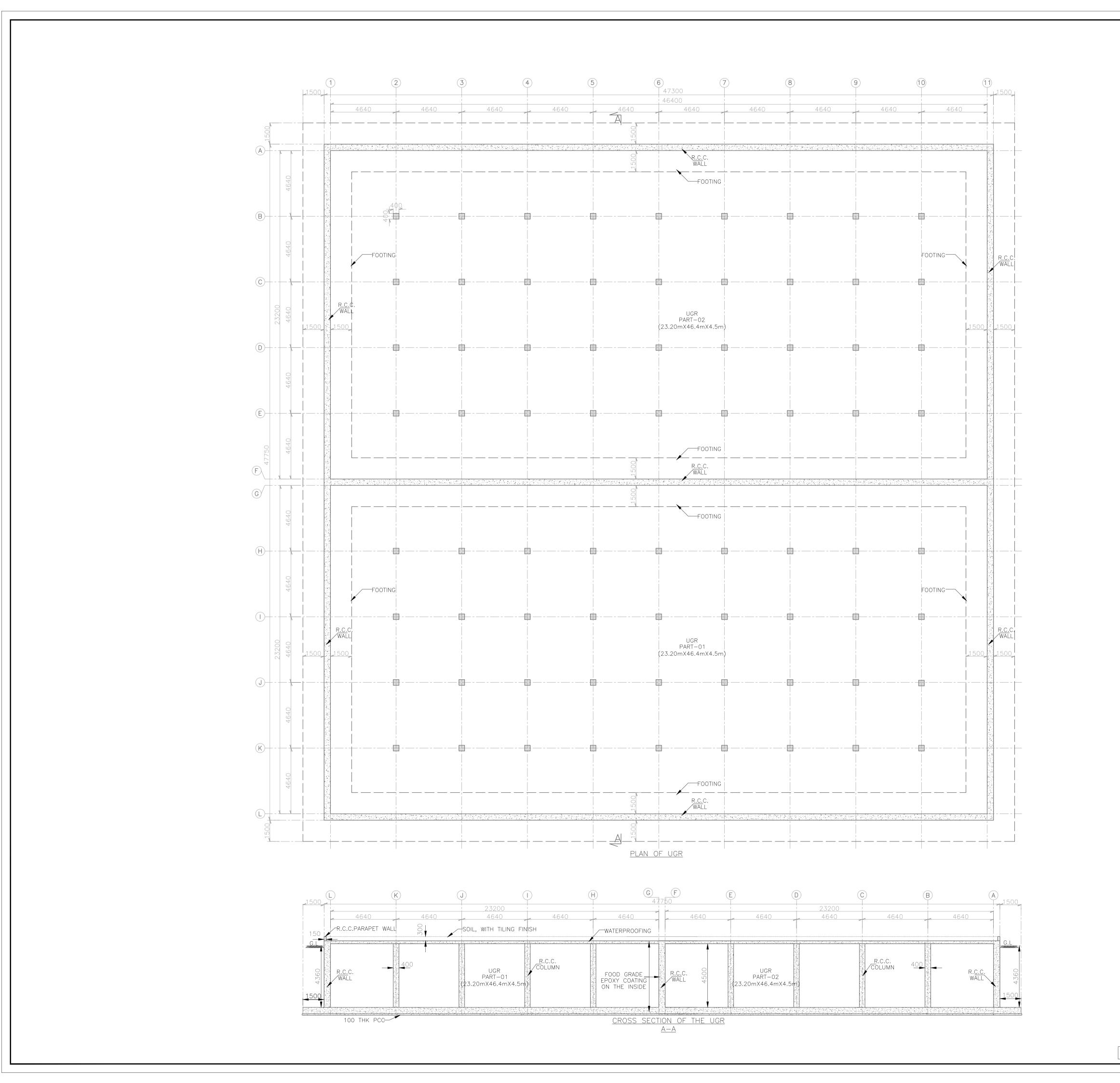


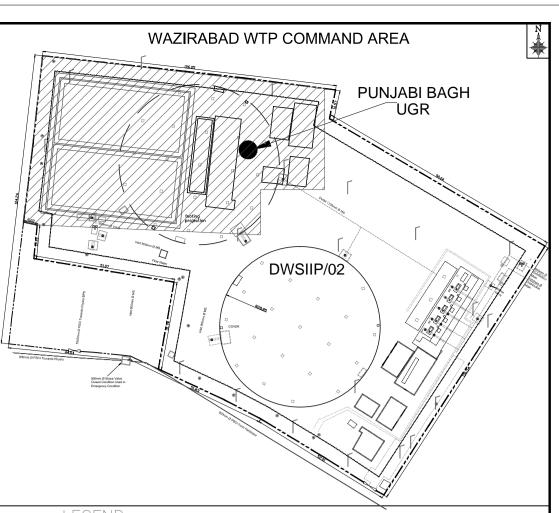


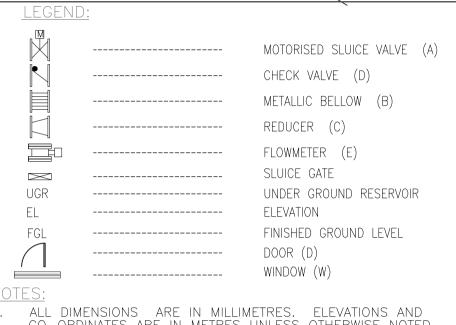












- 1. ALL DIMENSIONS ARE IN MILLIMETRES. ELEVATIONS AND CO-ORDINATES ARE IN METRES UNLESS OTHERWISE NOTED
- 2. ALL DIMENSIONS INDICATED ARE CLEAR INSIDE DIMENSIONS
- 3. PUMP PEDESTAL SIZES/DIMENSIONS ARE TO BE FINALISED AS PER VENDOR DRAWÍNGS.
- 4. VALVES AND PIPES SHALL BE SUITABLY SUPPORTED.
- 5. DETAIL OF COLUMN, WALL THICKNESS & STAIRCASE ARE TO BE ADJUSTED AS PER SITE CONDITION.
- 6. PUMPS WILL BE REPLACED SEQUENTIALLY IN A PHASED MANNER.
- 7. DISMANTLING AND REVAMPING OF STRUCTURES WILL BE UNDERTAKEN AS REQUIRED.
- 8. PUMPS ARE COMPITABLE WITH VFD.
- 9. ALL SUCTION PIPE LINE WITH BELL MOUTH, DELIVERY PIPE LINE, VALVES ETC. TO BE REPLACE
- 10. PUDDLE PIPE WHEREVER REQUIRE TO BE REPLACE
- 11. ALL DIMENSIONS INDICATED IN THE DRAWING ARE TENTATIVE,
- 12. ALL COLUMNS ARE IN 400X400mm.
- 13. ALL BEAMS ARE IN 300X500mm.
- 14. DOOR SIZE (i) DOOR SIZE = 1500 x 2100mm (2nos.) (ii) DOOR SIZE = 900 x 2100mm (2 nos.)

BIDDER TO VERIFY THE SAME FROM SITE

- 15. WINDOW & VENTILATOR SIZE (i) WINDOW SIZE = 1200 x 1200mm (35 nos.)
- 16. SUNSHADE SIZE (i) WINDOW (ii) DOOR = 450 mm(iii) ROLLING SHUTTER = 700mm

STRUCTURAL SIZING:

- 1. THE TOP SLAB WILL BE 200mm THICK, BUT FOR ESTIMATION CONSIDER 250 THICK FOR CAPITALS ETC.
- 2. CLEAR HEIGHT = 4.5m. 3. COLUMS ARE 400×400
- 4. WALL (AVG.) THICKNESS IS (450+250)/0=350mm 5. BASE SLAB (AVG.) THICKNESS (CONSIDERING COLUMN

FOOTINGS,ETC.) 400 UNFFORMLY.

- 1. THE TOP SLAB WILL BE 200mm THICK, BUT FOR ESTIMATION
- CONSIDER 250 THICK FOR CAPITALS ETC.
- 2. CLEAR HEIGHT = 4.5+1.5=6.0m
- 3. WALL (AVG.) THICKNESS IS (850+300)/2=475mm 4. BASE SLAB (AVG.) THICKNESS 650 UNFFORMLY

ISSUE	DATE	DESCRIPTION	BY	CHECK	(ED	APPD
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ADB Assisted

Delhi Water Supply Improvement Investment Program n Wazirabad Water Treatment Plant Command Area

DELHI JAL BOARD

Project Management Consultant (PMC):

NJS Consultants Co., Ltd. (Japan)

in Joint Venture with

ICRA Management Consulting Services Ltd.

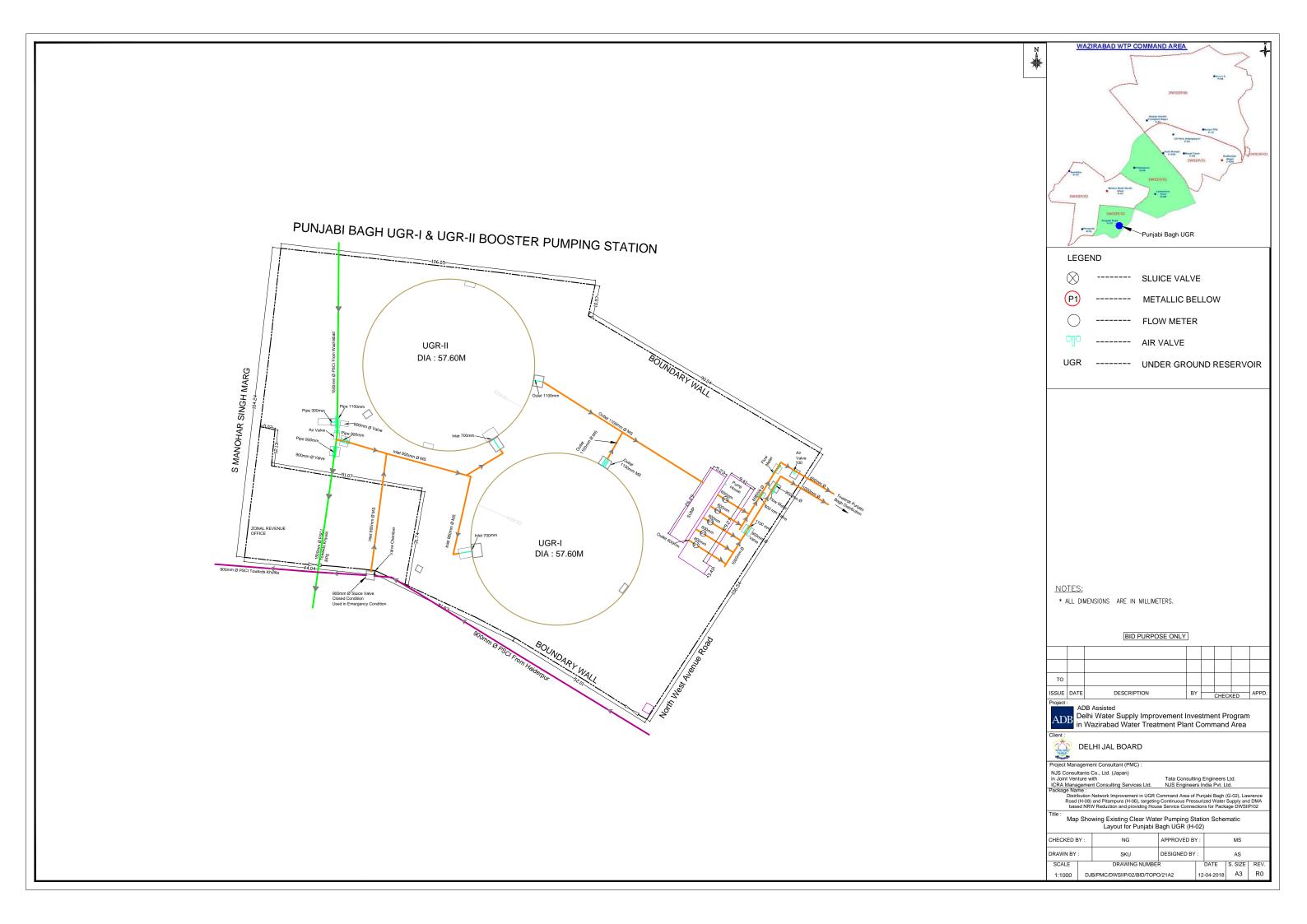
Tata Consulting Engineers Ltd.

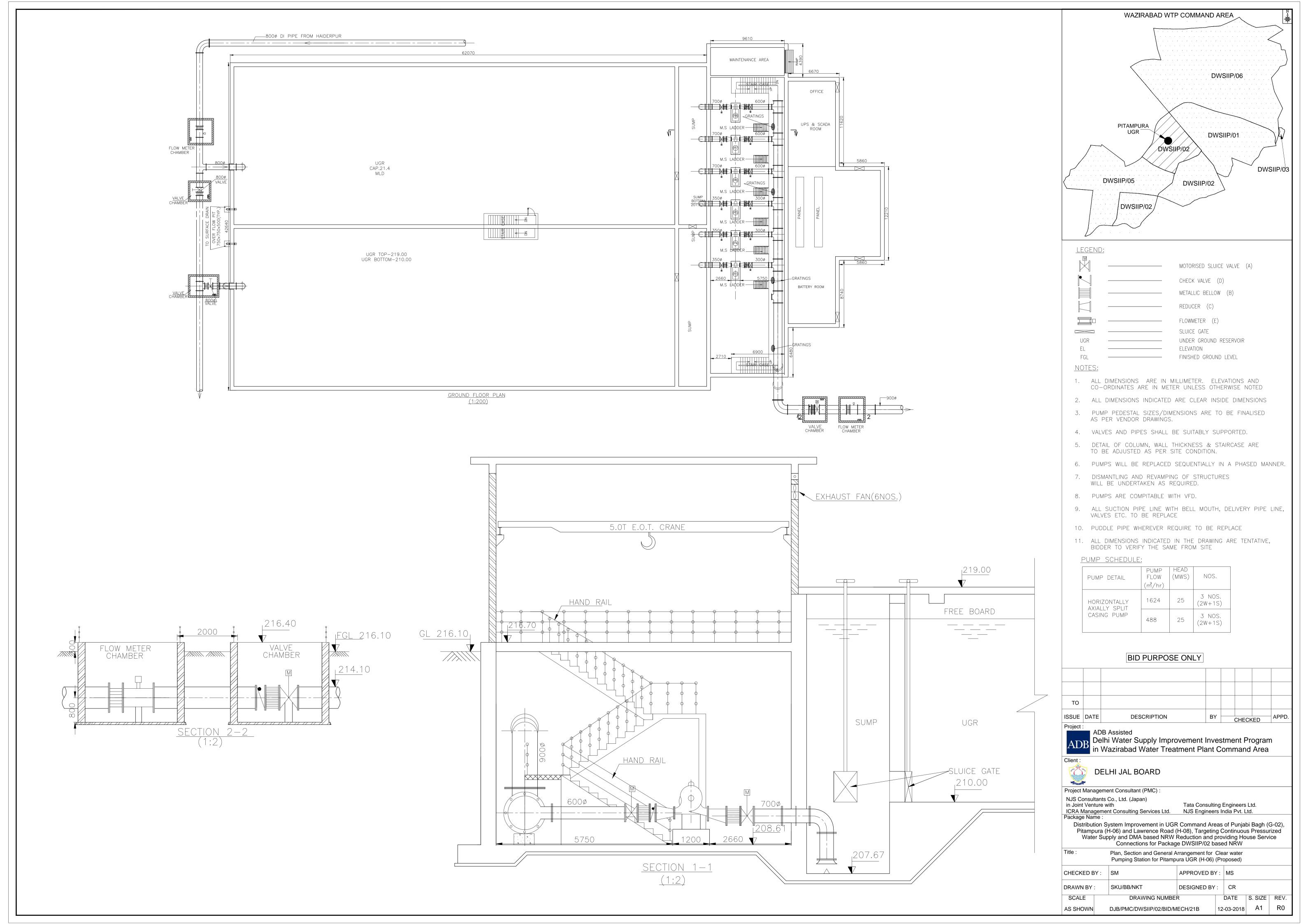
NJS Engineers India Pvt. Ltd. Package Name:

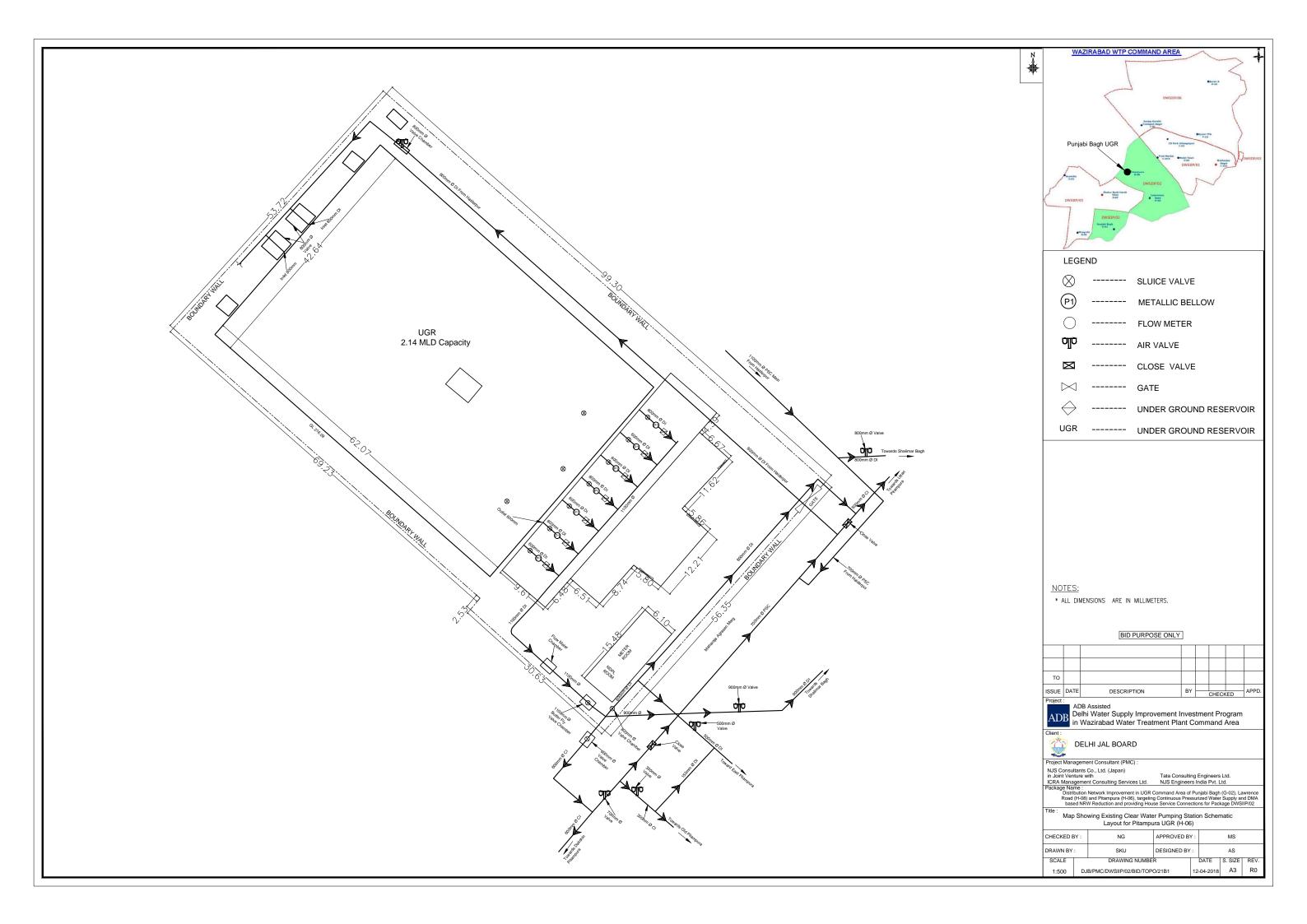
Distribution System Improvement in UGR Command Areas of Punjabi Bagh (G-02), Pitampura (H-06) and Lawrence Road (H-08), Targeting Continuous Pressurized Water Supply and DMA based NRW Reduction and providing House Service Connections for Package DWSIIP/02 based NRW

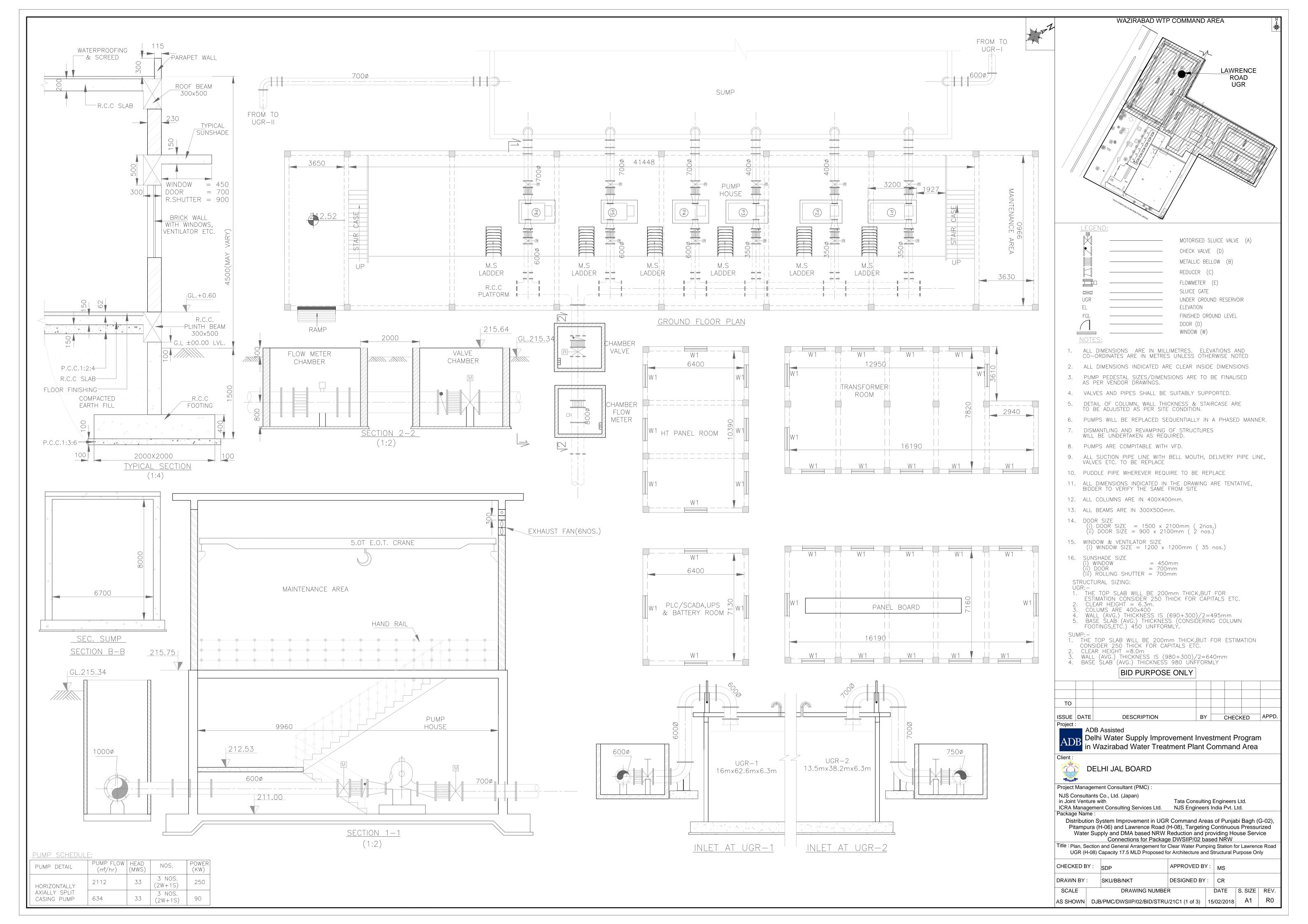
Title: Plan, Section and General Arrangement for Clear water pumping station for Punjabi Bagh UGR (G-02) Capacity 8.3 MLD Proposed for Architecture and Structural Purpose Only

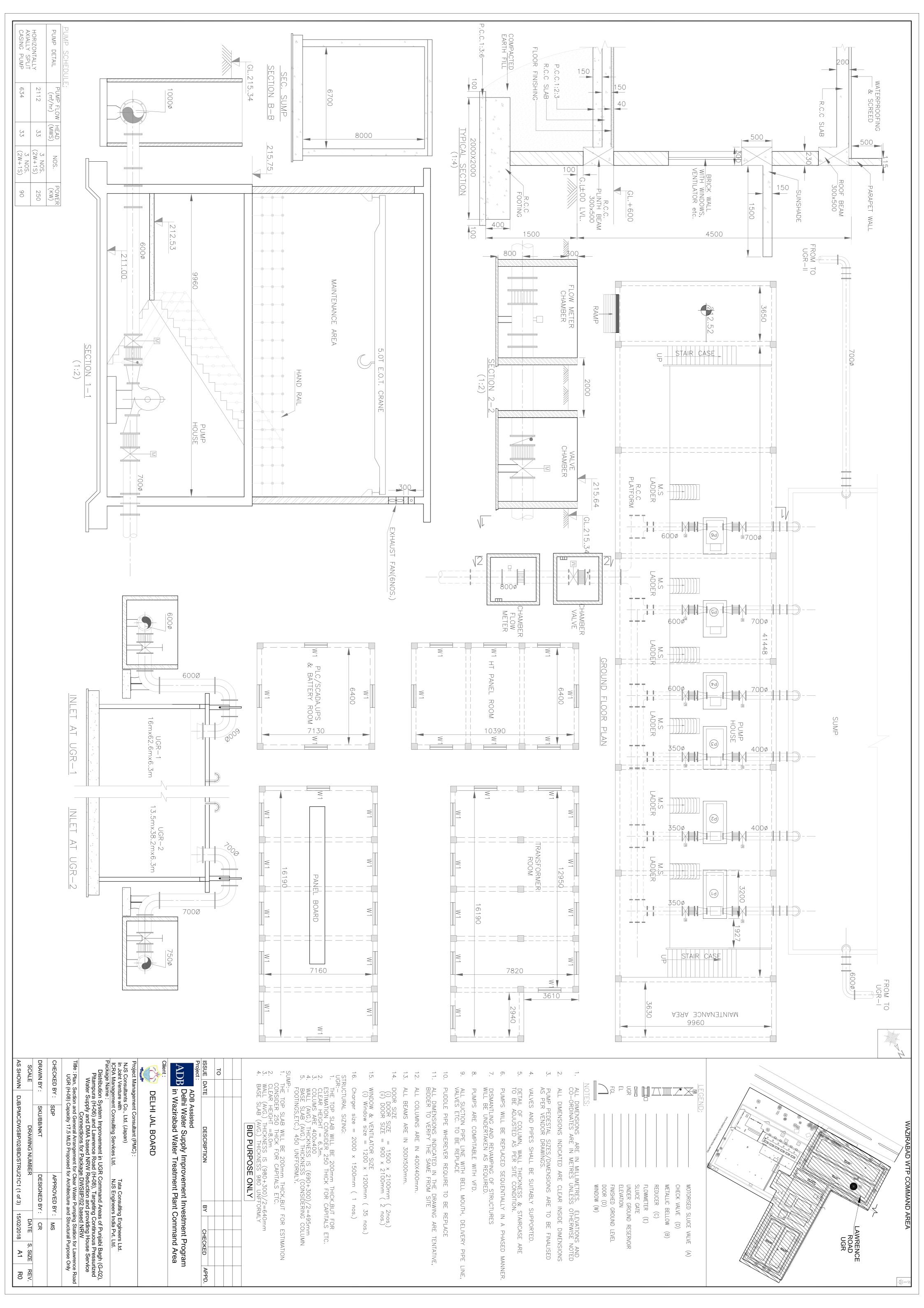
CHECKED BY: SDP APPROVED BY: MS DRAWN BY SKU/BB/NKT DESIGNED BY: CR DATE S. SIZE REV. DRAWING NUMBER BID PURPOSE ONLY DJB/PMC/DWSIIP/02/BID/STRU/21A1 (2 of 2) | 15/02/2018 | A1 | R0

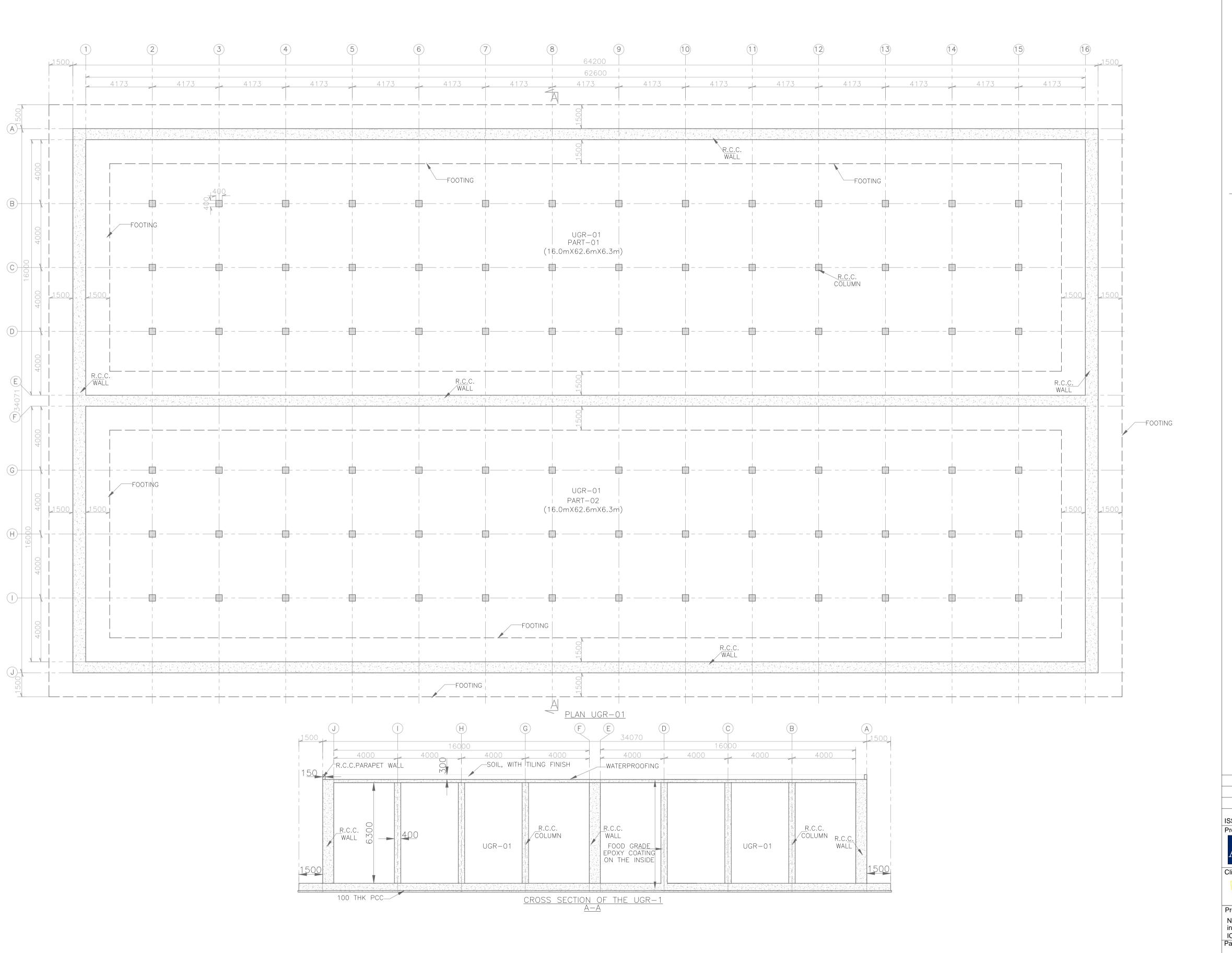


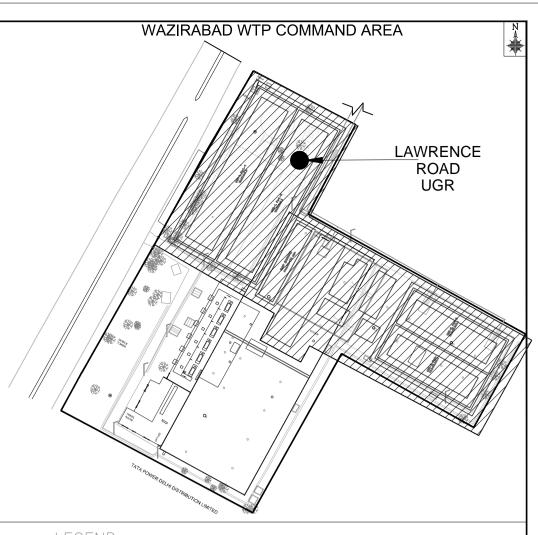












MOTORISED SLUICE VALVE (A)

CHECK VALVE (D)

METALLIC BELLOW (B)

REDUCER (C)

FLOWMETER (E)

SLUICE GATE

UGR
UNDER GROUND RESERVOIR

EL

ELEVATION

FGL

NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETRES. ELEVATIONS AND CO-ORDINATES ARE IN METRES UNLESS OTHERWISE NOTED
- 2. ALL DIMENSIONS INDICATED ARE CLEAR INSIDE DIMENSIONS
- 3. PUMP PEDESTAL SIZES/DIMENSIONS ARE TO BE FINALISED AS PER VENDOR DRAWINGS.
- 4. VALVES AND PIPES SHALL BE SUITABLY SUPPORTED.
- 5. DETAIL OF COLUMN, WALL THICKNESS & STAIRCASE ARE TO BE ADJUSTED AS PER SITE CONDITION.
- 6. PUMPS WILL BE REPLACED SEQUENTIALLY IN A PHASED MANNER.
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- 8. PUMPS ARE COMPITABLE WITH VFD.
- 9. ALL SUCTION PIPE LINE WITH BELL MOUTH, DELIVERY PIPE LINE, VALVES ETC. TO BE REPLACE
- 10. PUDDLE PIPE WHEREVER REQUIRE TO BE REPLACE
- 11. ALL DIMENSIONS INDICATED IN THE DRAWING ARE TENTATIVE, BIDDER TO VERIFY THE SAME FROM SITE
- 12. ALL COLUMNS ARE IN 400X400mm.
- 13. ALL BEAMS ARE IN 300X500mm.
- (i) DOOR SIZE = 1500 x 2100mm (2nos.) (ii) DOOR SIZE = 900 x 2100mm (2 nos.)
- (II) DOOR SIZE = 900 x 2100mm (2 nos.)
- 15. WINDOW & VENTILATOR SIZE (i) WINDOW SIZE = 1200 x 1200mm (35 nos.)
- 16. SUNSHADE SIZE
 (i) WINDOW
 -) WINDOW = 450mm i) DOOR = 700mm
- (iii) ROLLING SHUTTER = 700mm STRUCTURAL SIZING:
- UGR:-1. THE TOP SLAB WILL BE 200mm THICK,BUT FOR
- ESTIMATION CONSIDER 250 THICK FOR CAPITALS ETC.
 2. CLEAR HEIGHT = 6.3m.
- 3. COLUMS ARE 400×400
- 4. WALL (AVG.) THICKNESS IS (690+300)/2=495mm
 5. BASE SLAB (AVG.) THICKNESS (CONSIDERING COLUMN FOOTINGS, ETC.) 450 UNFFORMLY.
- SUMP:
 1. THE TOP SLAB WILL BE 200mm THICK, BUT FOR ESTIMATION
- CONSIDER 250 THICK FOR CAPITALS ETC.
- 2. CLEAR HEIGHT =8.0m3. WALL (AVG.) THICKNESS IS (980+300)/2=640mm4. BASE SLAB (AVG.) THICKNESS 980 UNFFORMLY

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ISSUE	DATE	DESCRIPTION	BY	CHECK	ŒD	APPD.
Project :						

ADB Del

ADB Assisted
Delhi Water Supply Improvement Investment Program
in Wazirabad Water Treatment Plant Command Area



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Distribution System Improvement in UGR Command Areas of Punjabi Bagh (G-02), Pitampura (H-06) and Lawrence Road (H-08), Targeting Continuous Pressurized Water Supply and DMA based NRW Reduction and providing House Service

Connections for Package DWSIIP/02 based NRW

Title: Plan, Section and General Arrangement for Clear Water Pumping Station for Lawrence Road UGR (H-08) Capacity 17.5 MLD Proposed for Architecture and Structural Purpose Only

CHECKED B	3Y :	SDP	APPROVED BY	Y: MS		
DRAWN BY :		SKU/BB/NKT	DESIGNED BY	: CR		
SCALE		DRAWING NUMBER		DATE	S. SIZE	REV.
1:20	DJE	3/PMC/DWSIIP/02/BID/STRU	1/21C1 (2 of 3)	1 (2 of 3) 15/02/2018		R0

