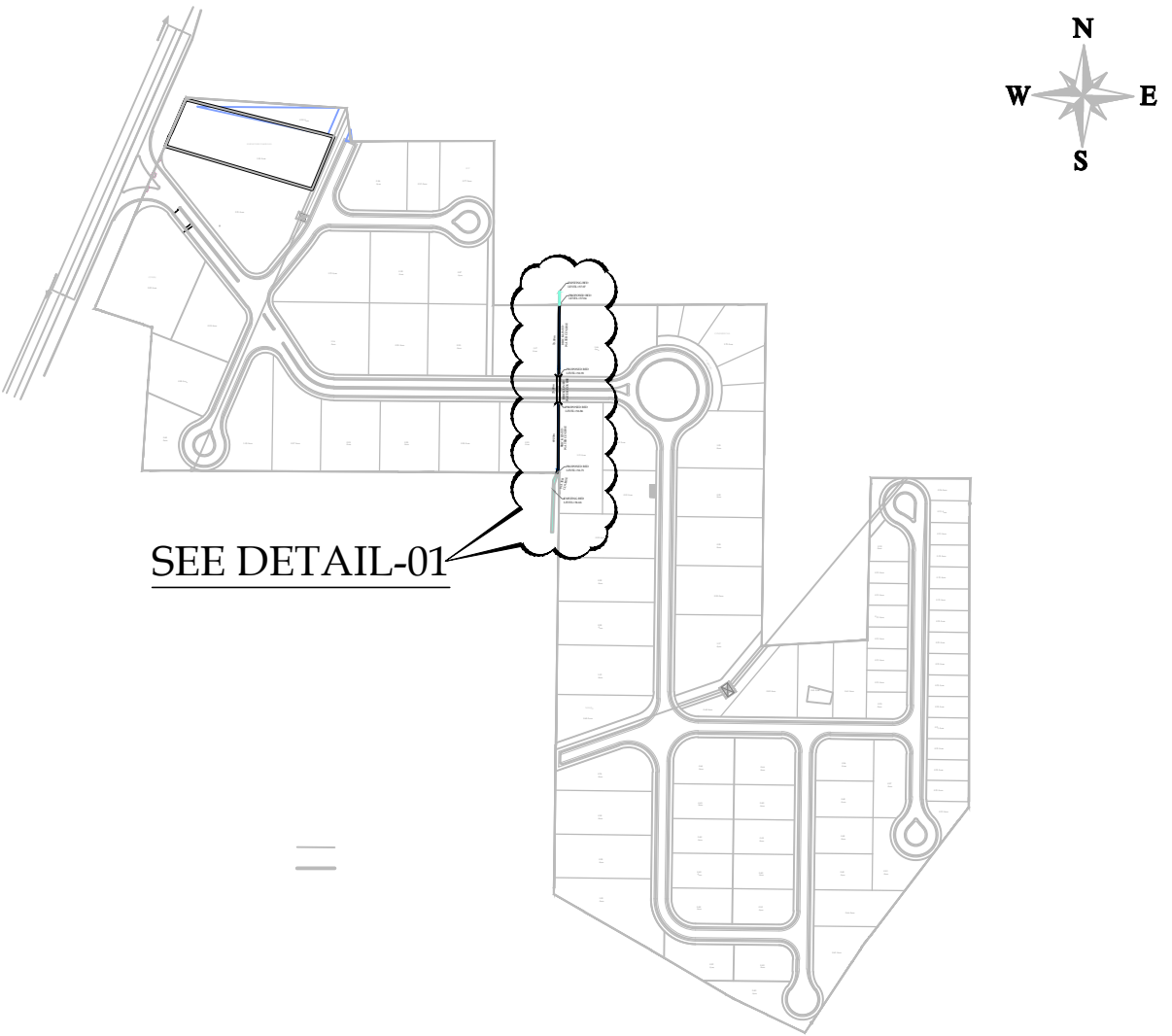
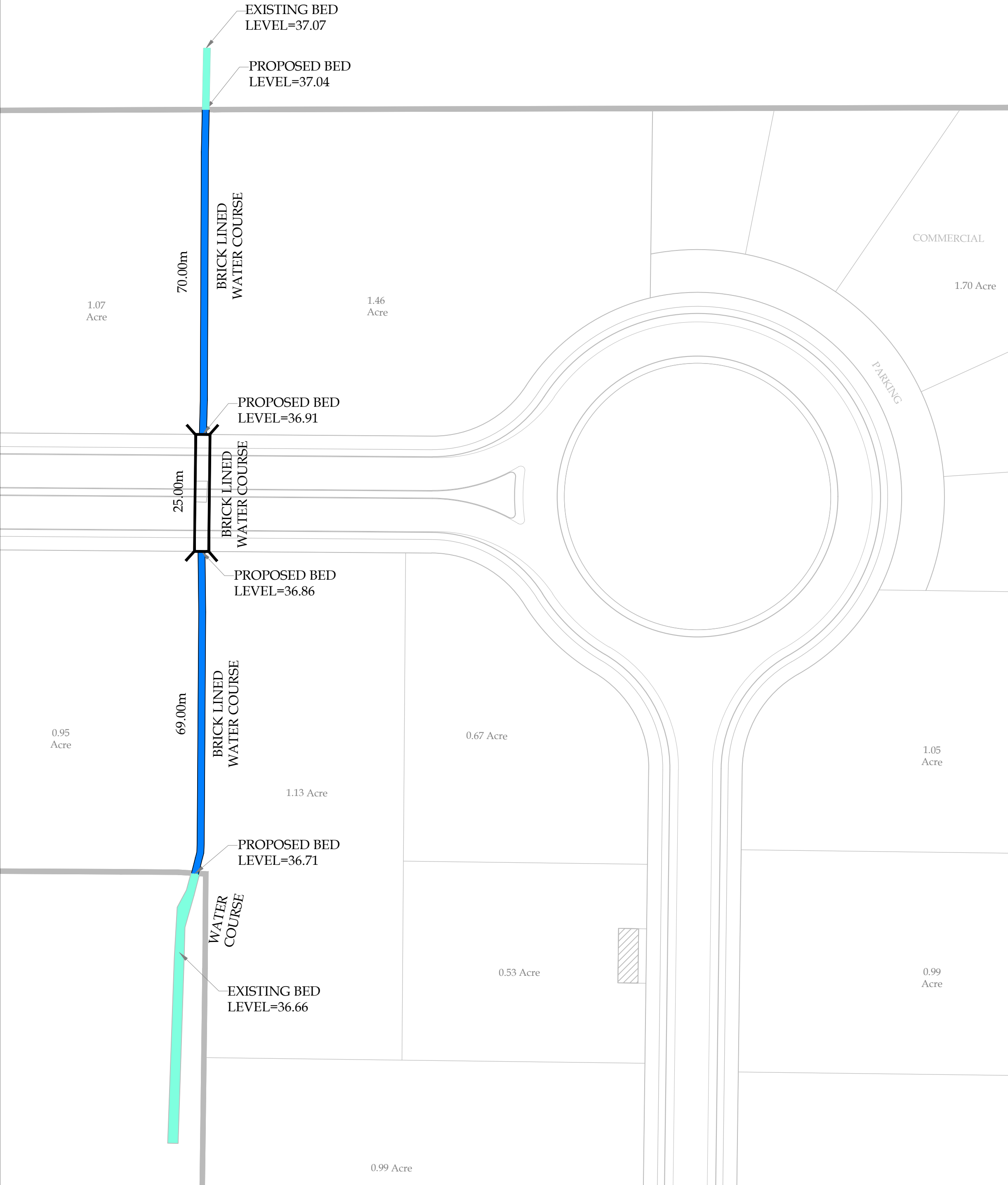
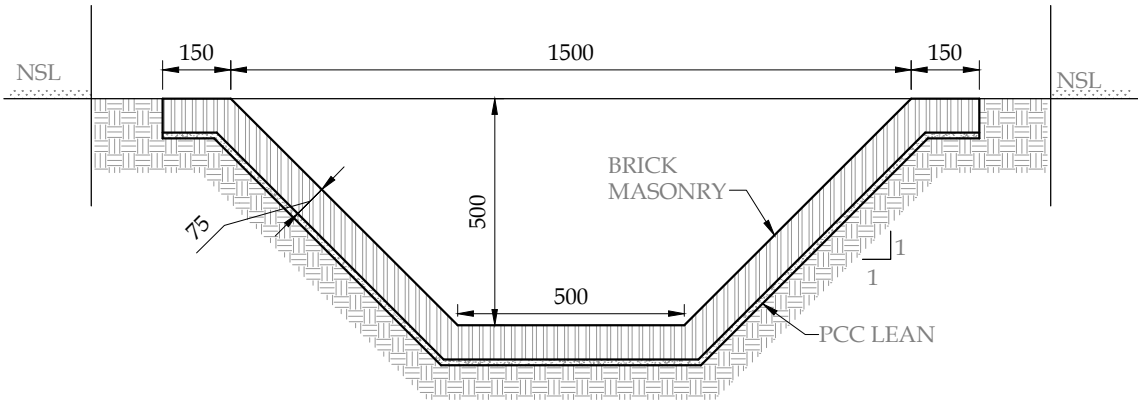


DETAIL-01



KEY PLAN



WATER COURSE
TYPICAL CROSS SECTION

- LEGEND
- EXISTING WATER COURSE
- BRICK LINED WATER COURSE

PROJECT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE:
WATER COURSE
LAYOUT PLAN & TYPICAL DETAIL

ORIGINAL :		DATE :		SCALE :	
A2		JULY, 2021			
DATE	DESCRIPTION		DRAWN	DESIGNED	APPROVED
22-12-2021	TENDER DRAWINGS		USMAN	ENGR. HASEEB	ENGR. ARSLAN

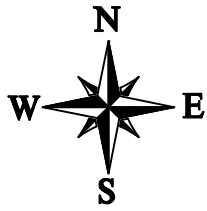
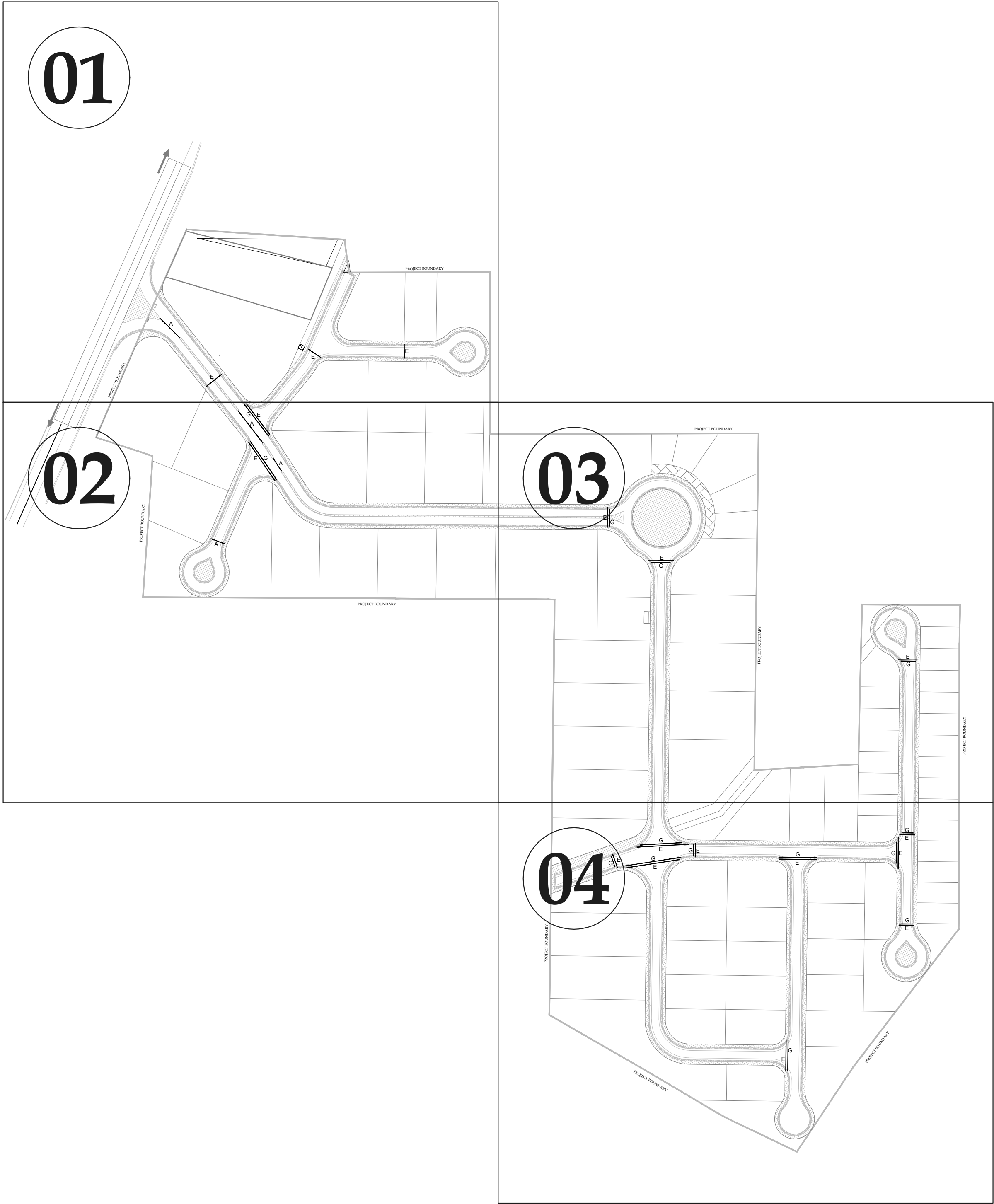
DRAWING N°:
NFIP-R-WC-LP-01

SHEET
REV
00

CLIENT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI, PAKISTAN.
PHONE: 021-3568-5041-9

CONSULTANT:
ASIAN CONSULTING ENGINEERS PVT.(LTD)
C-3 JHELM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN
TELEPHONE: +92 42 35450914-5 +92 32-142-71101
FAX: +92 42 35450916 WEB: www.asiancon.com

ROAD CROSSING SLEEVES



PROJECT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE:
**ROADS NETWORK
ROAD CROSSING SLEEVES
KEY PLAN**

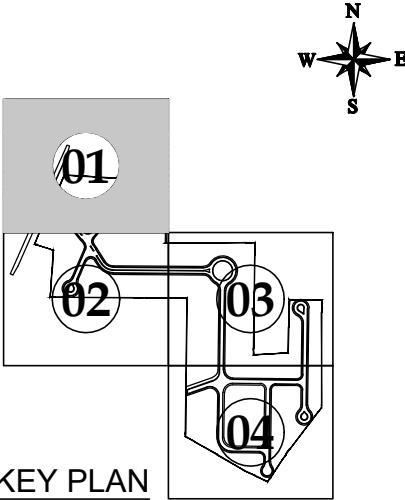
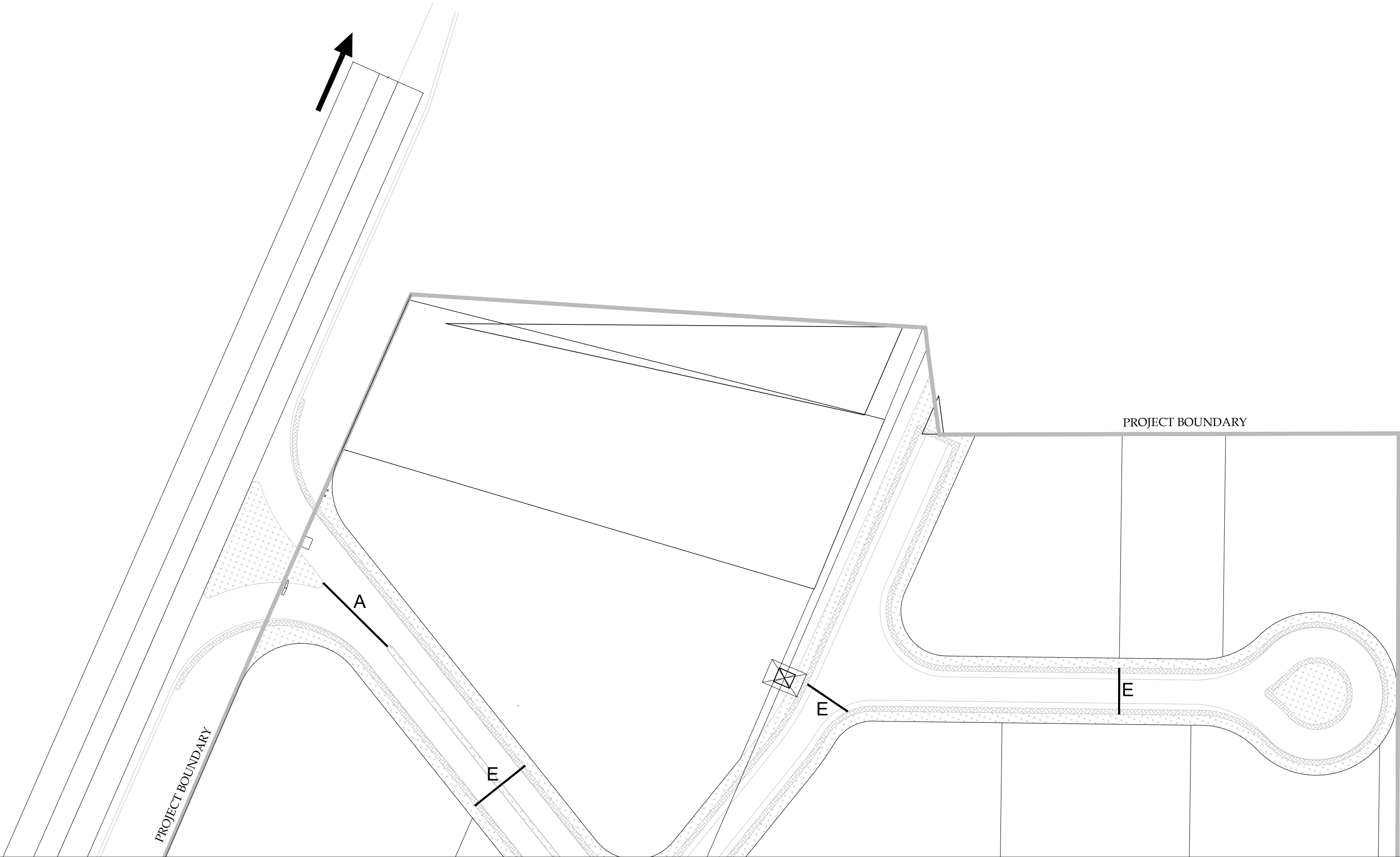
ORIGINAL :		DATE :		SCALE :	
A2		JULY, 2021			
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED	
22-12-2021	TENDER DRAWINGS	M DEEN	ENGR. UMAR KHAN	ENGR. BAZA HAMID	

DRAWING N°:		SHEET	REV
NFIP-ES-LP-01		1 OF 1	00

CLIENT:
 **PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)**
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI,
PAKISTAN
PHONE: 021-3568-5041-9

CONSULTANT:
 **ASIAN CONSULTING ENGINEERS PVT.(LTD)**
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TELEPHONE: +92 42 35450914-5 +92 32-142-71101
FAX: +92 42 35450916 WEB: www.asiancon.com

NFIP-ES-LP-01-04



PROJECT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE:
**ROADS NETWORK
ENLARGED PLAN ROAD
CROSSING SLEEVES LAYOUT**

ORIGINAL	DATE	SCALE
A2	JULY, 2021	

DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED
22-12-2021	TENDER DRAWINGS	M DEEN	ENGR. UMAR KHAN	ENGR. RAZA HAMID

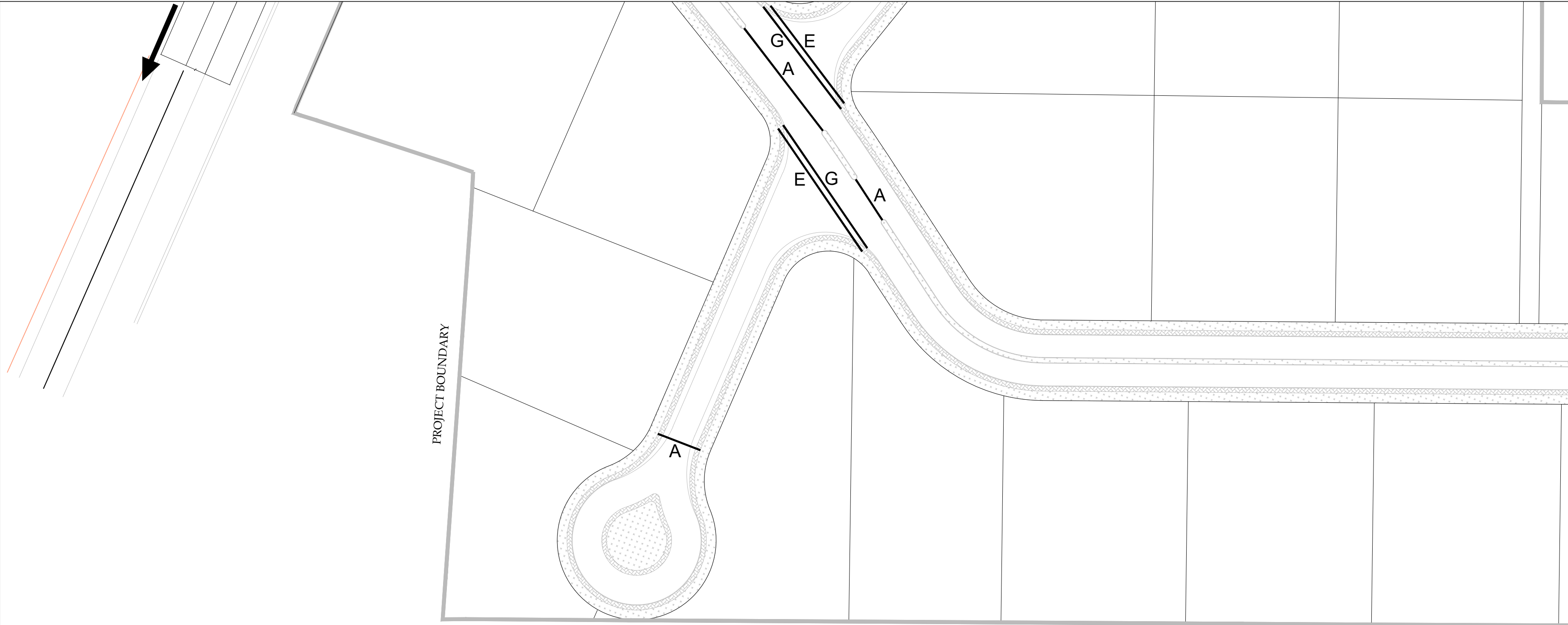
DRAWING N°:
NFIP-ES-LP-01

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01 OF 04

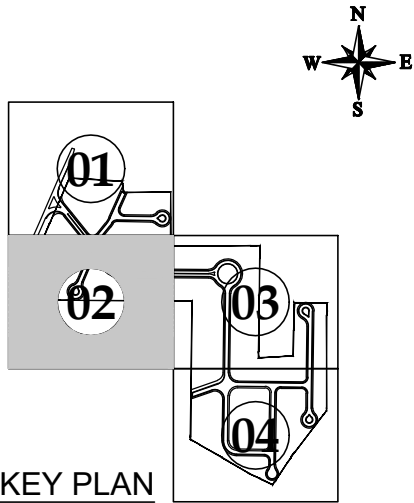
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CLIENT:
**PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)**
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI,
PAKISTAN.
PHONE: 021-3568-5041-9

CONSULTANT:
**ASIAN CONSULTING ENGINEERS PVT.(LTD)**
C-3 JHILLUM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN
TELEPHONE: +92 42 35450914-5 +92 32-142-71101
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PROJECT BOUNDARY



KEY PLAN

PROJECT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE:
**ROADS NETWORK
ENLARGED PLAN ROAD
CROSSING SLEEVES LAYOUT**

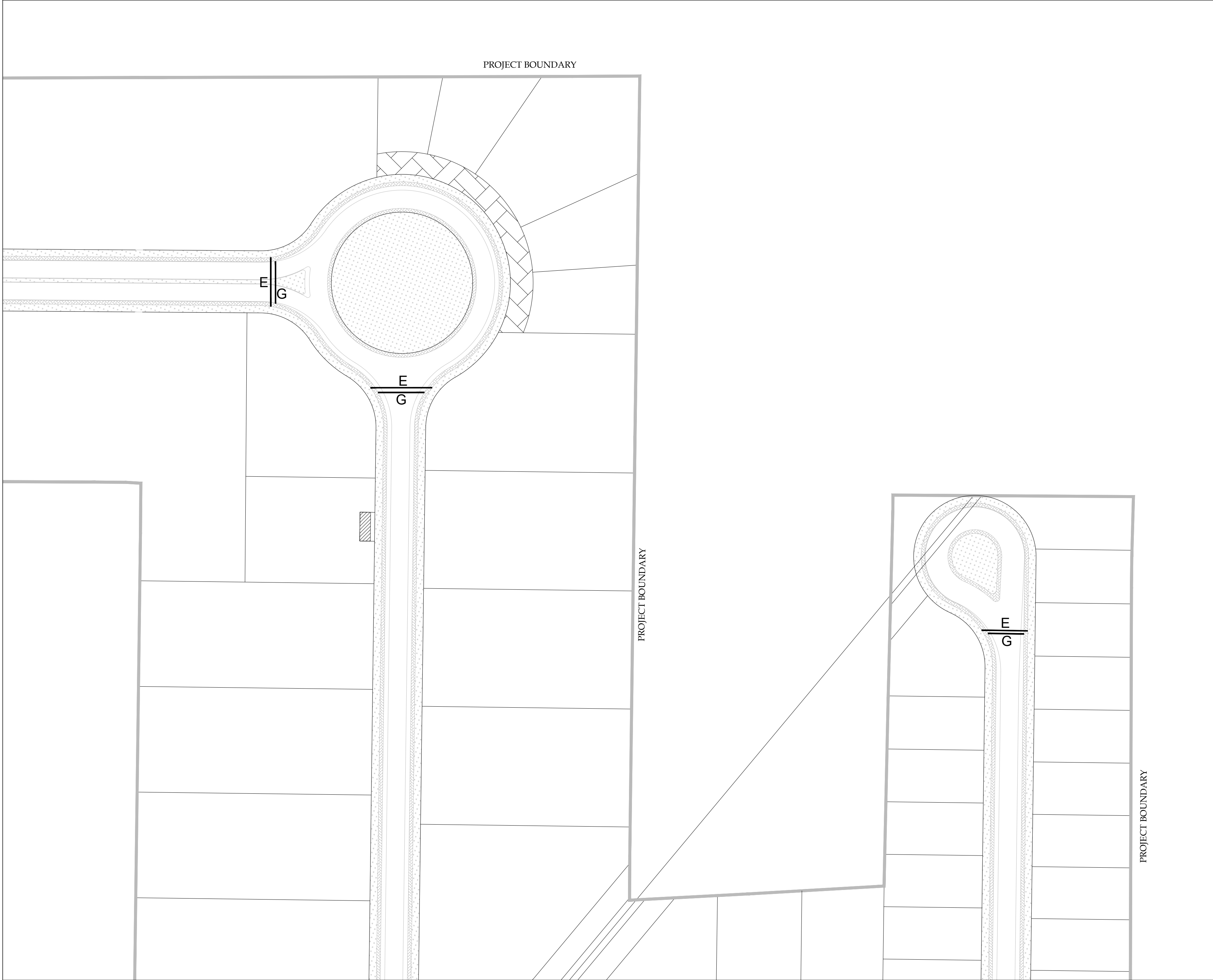
ORIGINAL :		DATE :	SCALE :	
A2		JULY, 2021		
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED
22-12-2021	TENDER DRAWINGS	M DEN	ENGR UMAIR KHALID	ENGR RAZA HAMID

DRAWING N°:		SHEET	REV
NFIP-ES-LP-02		02 OF 04	00

CLIENT:
 **PAKISTAN INDUSTRIAL DEVELOPMENT
CORPORATION (PIDC)**
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI,
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PHONE: 021-3568-5041-9

CONSULTANT:
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NFIP-ES-LP-01-04



KEY PLAN

PROJECT:

PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE:

ROADS NETWORK
ENLARGED PLAN ROAD
CROSSING SLEEVES LAYOUT

ORIGINAL	DATE	SCALE
A2	JULY, 2021	

DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED
22-12-2021	TENDER DRAWINGS	M DEN	ENGR UMAIR KHAN	ENGR RAZA HAMID

DRAWING N°:

NFIP-ES-LP-03

SHEET

03 OF 04

REV

00

CLIENT:

PAKISTAN INDUSTRIAL DEVELOPMENT
CORPORATION (PIDC)
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI,
PAKISTAN.
PHONE: 021-3568-5041-9

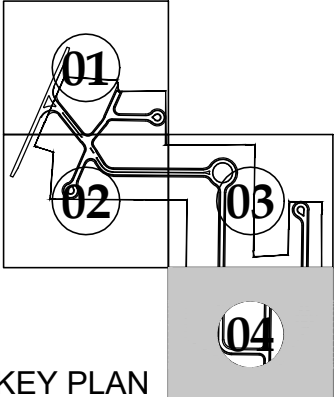
CONSULTANT:

ASIAN CONSULTING ENGINEERS PVT.(LTD)
C-3 JHELLUM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN
TELEPHONE: +92 42 35450914-5 +92 32-143-71101
FAX: +92 42 35450916 WEB: www.asiancon.com

PROJECT BOUNDARY

PROJECT BOUNDARY

PROJECT BOUNDARY



PROJECT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

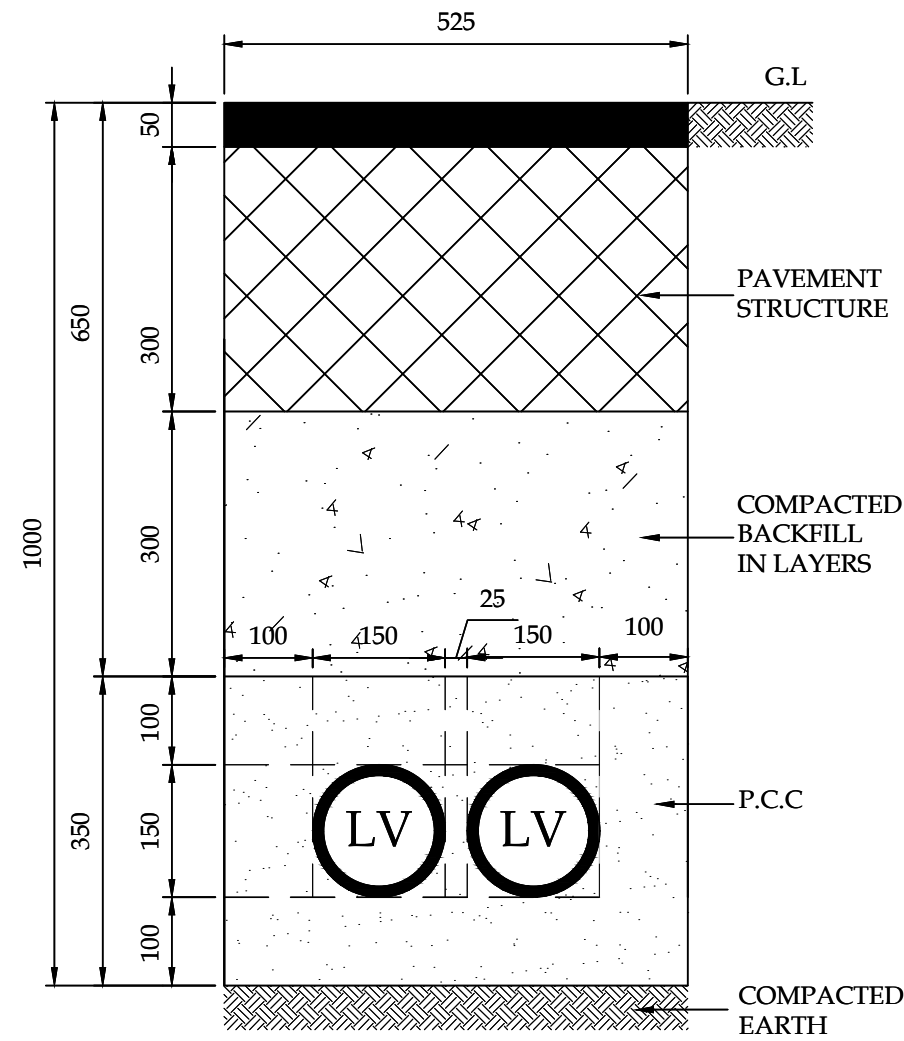
DRAWING TITLE:
**ROADS NETWORK
ENLARGED PLAN ROAD
CROSSING SLEEVES LAYOUT**

ORIGINAL:		DATE:	SCALE:	
A2		JULY, 2021		
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED
22-12-2021	TENDER DRAWINGS	M DEEN	ENGR UMAR KHAN	ENGR RAZA HAMID

DRAWING N°:		SHEET	REV
NFIP-ES-LP-04		04 OF 04	00

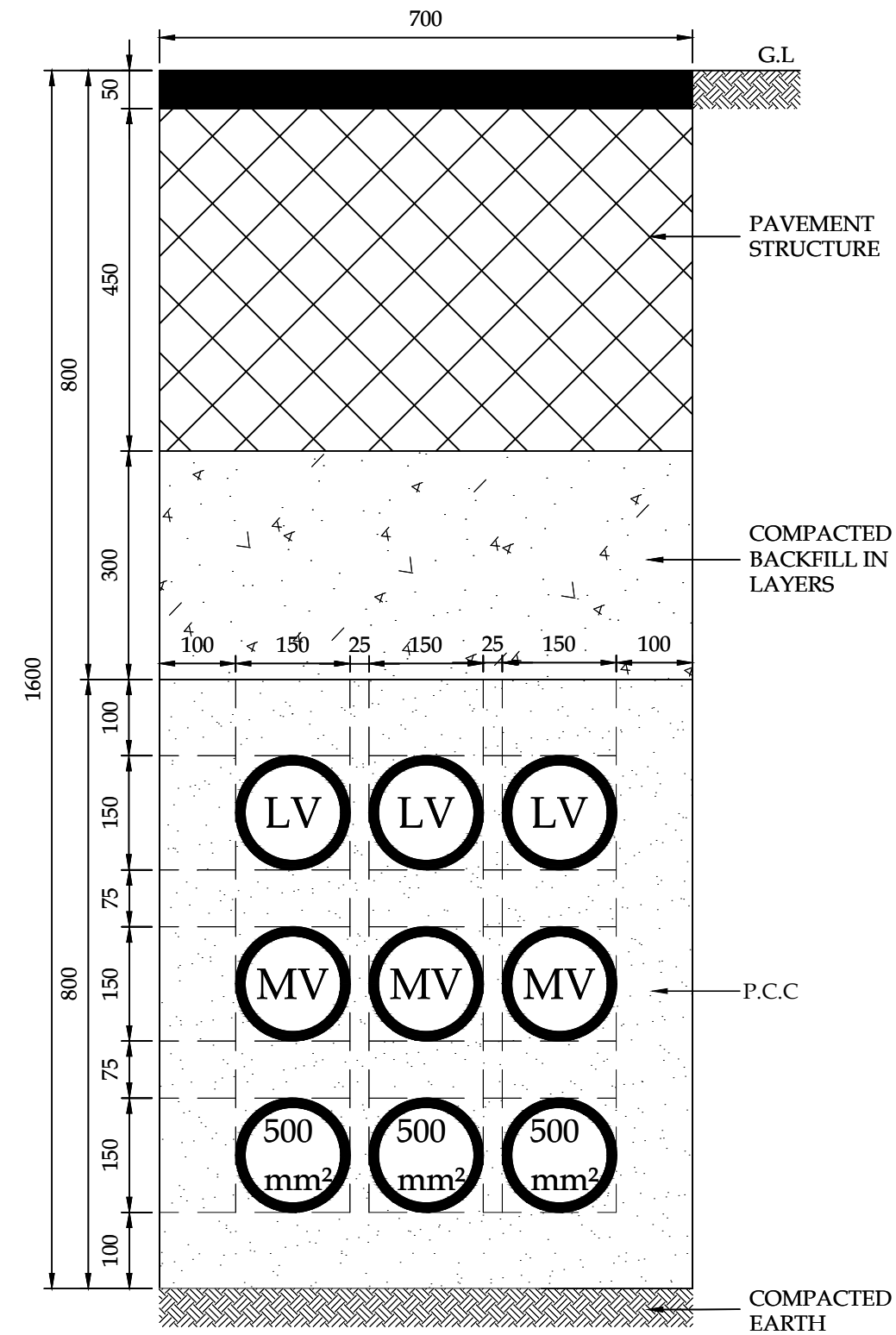
CLIENT:
 **PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)**
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI,
PAKISTAN.
PHONE: 021-3568-5041-9

CONSULTANT:
 **ASIAN CONSULTING ENGINEERS PVT.(LTD)**
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FAX: +92 42 35450916 WEB: www.asiancon.com

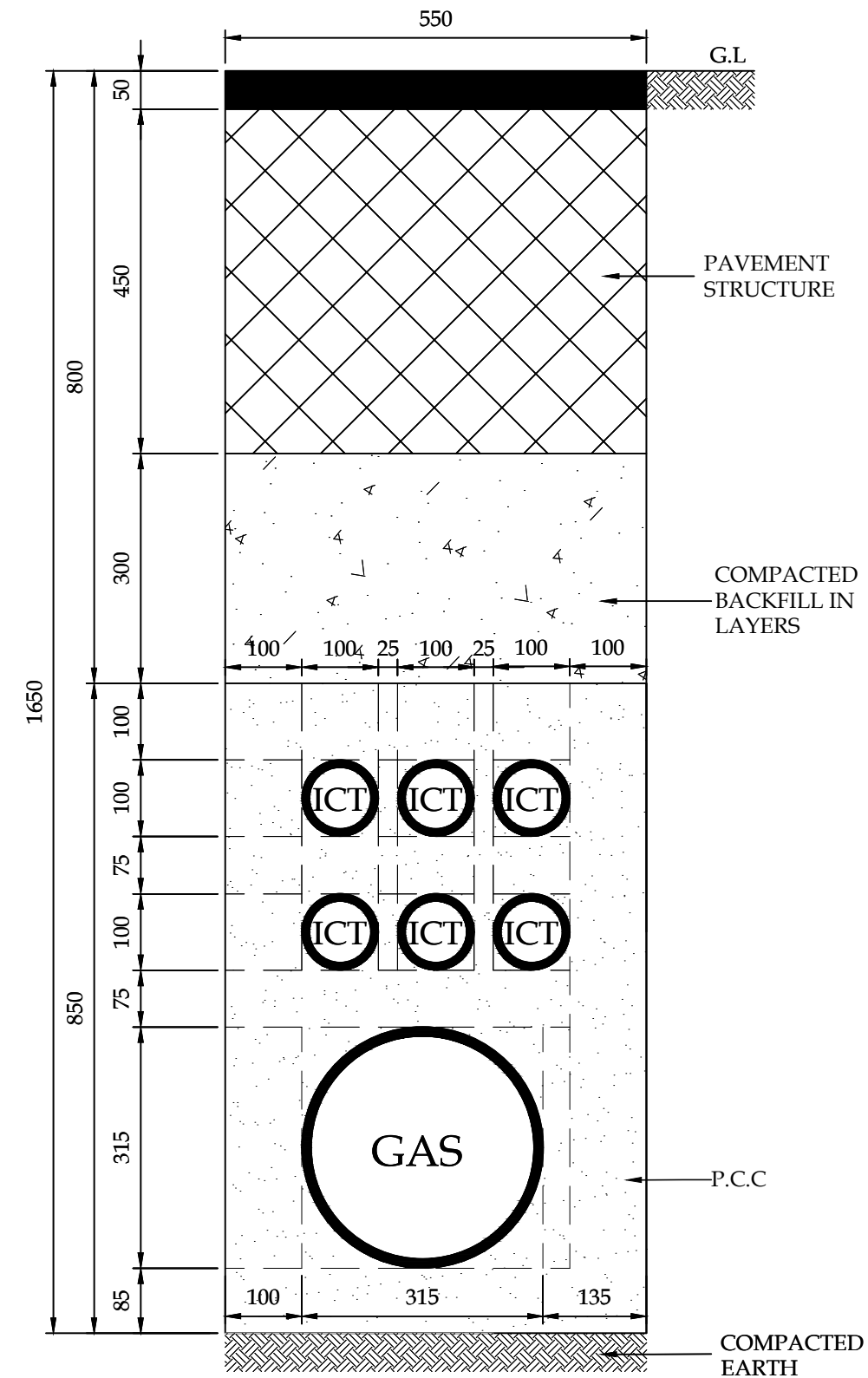


**ROAD CROSSING PIPE
SLEEVES (TYPE - A)**
SCALE :- 1:10

ICT -100 mm Ø UPVC PIPE
LV -150 mm Ø UPVC PIPE
MV- 150 mm Ø UPVC PIPE
GAS-300 mm Ø PE PIPE PIPE



**ROAD CROSSING PIPE
SLEEVES (TYPE - E)**
SCALE :- 1:10



**ROAD CROSSING PIPE
SLEEVES (TYPE - G)**
SCALE :- 1:10

PROJECT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE:
**ROADS NETWORK
TYPICAL DETAIL OF ROAD
CROSSING SLEEVES.**

ORIGINAL :		DATE :		SCALE :	
A2		JULY, 2021			
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED	
22-12-2021	TENDER DRAWINGS	M DEEN	ENGR UMAIR KHALID	ENGR RAZA HAMID	

DRAWING N°:
NFIP-ES-TD-01

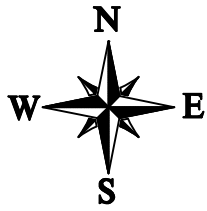
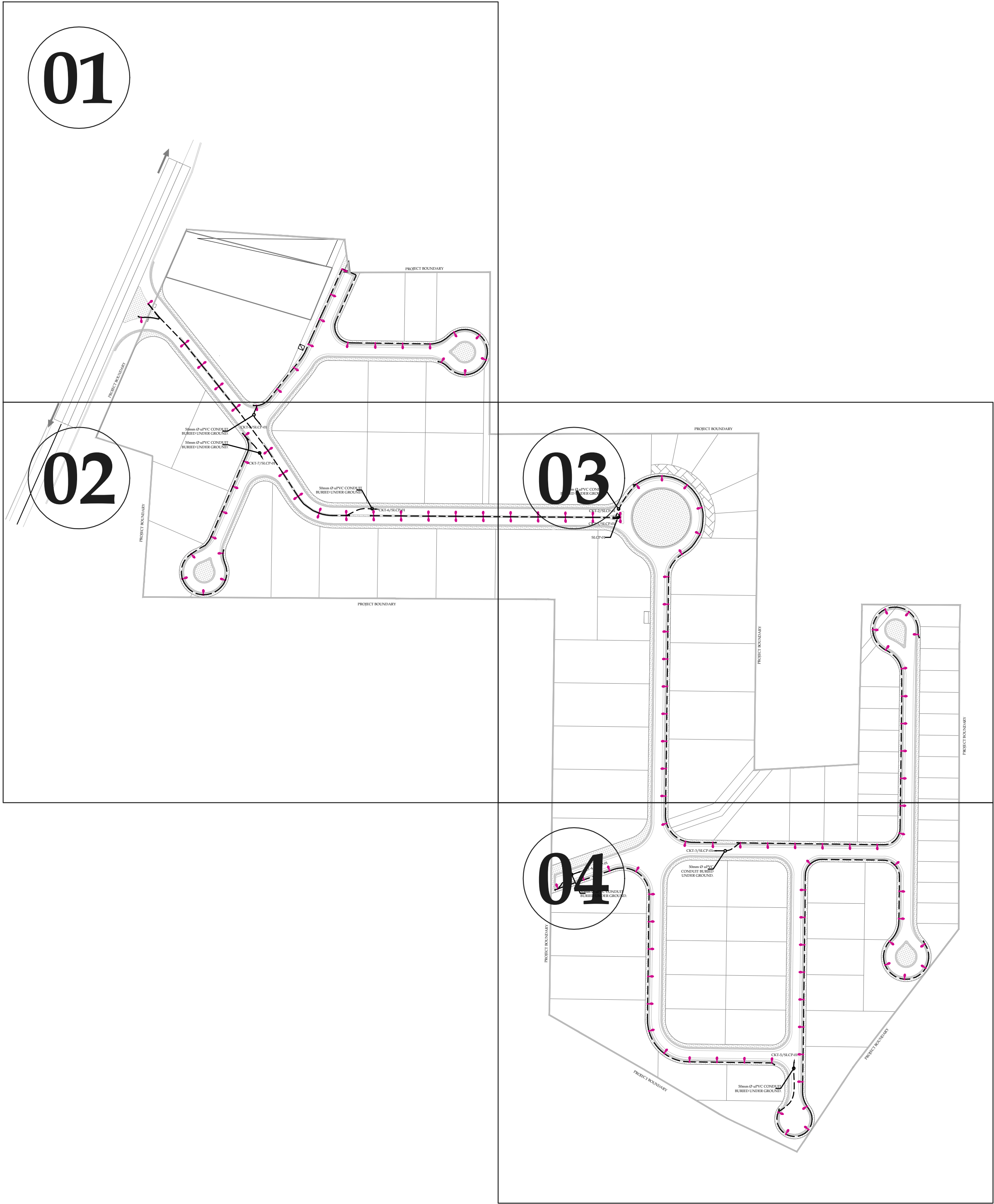
SHEET
01 OF 01

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CLIENT:
**PAKISTAN INDUSTRIAL DEVELOPMENT
CORPORATION (PIDC)**
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI,
PAKISTAN.
PHONE: 021-3568-5041-9

CONSULTANT:
ASIAN CONSULTING ENGINEERS PVT.(LTD)
C-3 JHILLUM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN
TELEPHONE: +92 42 35450914-5 +92 32-142-71101
FAX: +92 42 35450916 WEB: www.asiancon.com

STREET LIGHTING



PROJECT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

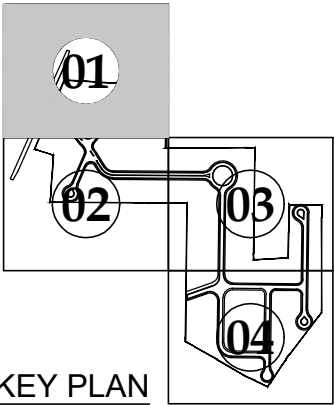
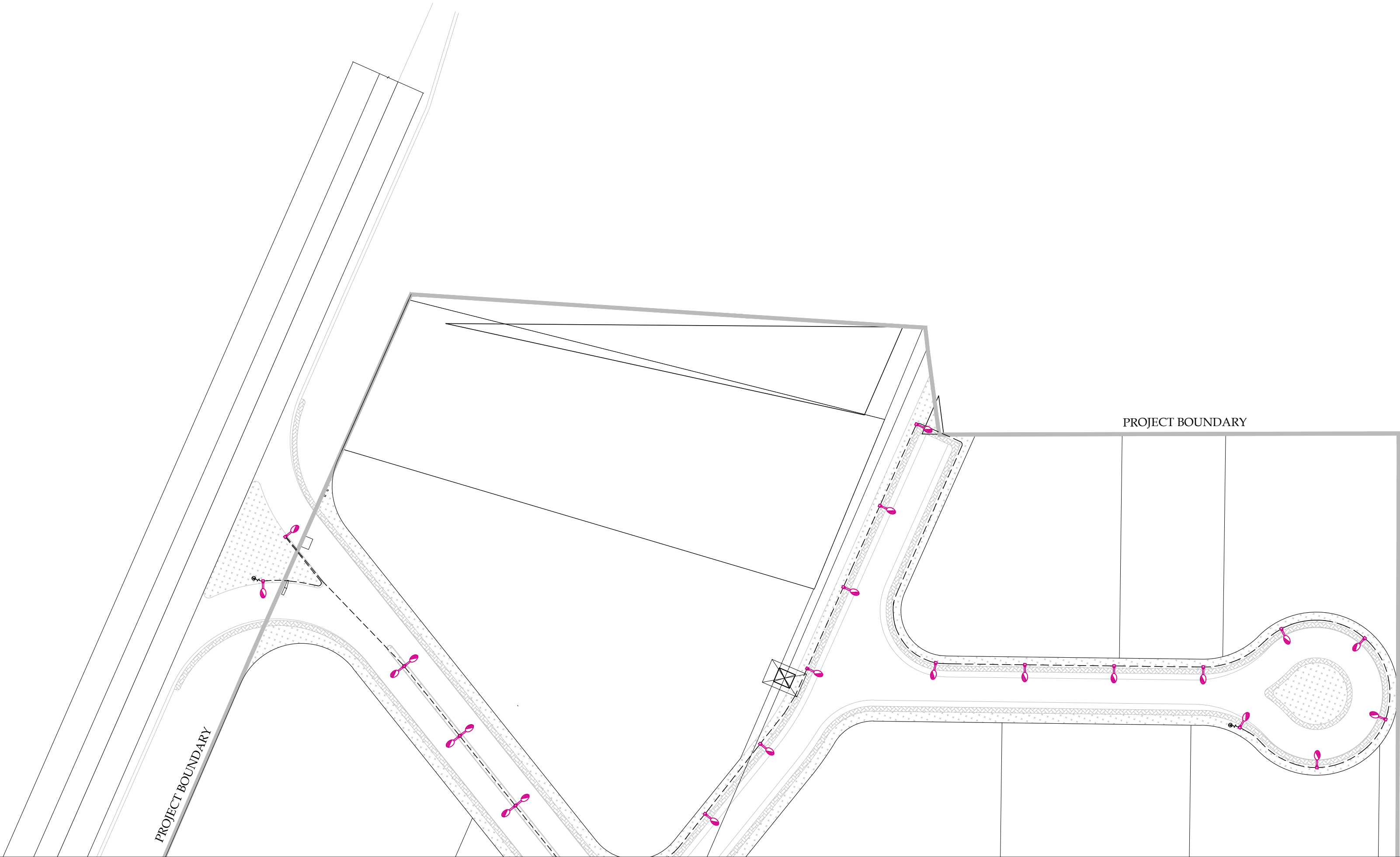
DRAWING TITLE:
**ROADS NETWORK
STREET LIGHTING LAYOUT
KEY PLAN**

ORIGINAL :		DATE :		SCALE :	
A2		JULY, 2021			
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED	
22-12-2021	TENDER DRAWINGS	M DEEN	ENGR UMAIR KHAN	ENGR BAZZA HAMID	

DRAWING N°:		SHEET	REV
NFIP-E-SLL-KP-01		1 OF 1	00

CLIENT:
 **PAKISTAN INDUSTRIAL DEVELOPMENT
CORPORATION (PIDC)**
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI,
PAKISTAN
PHONE: 021-3568-5041-9

CONSULTANT:
 **ASIAN CONSULTING ENGINEERS PVT.(LTD)**
C-3 JHELIUM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN
TELEPHONE: +92 42 35450914-5 +92 32-142-71101
FAX: +92 42 35450916 WEB: www.asiancon.com



KEY PLAN

LEGEND		
S.NO	SYMBOLS	DISCRPTION
01		STREET LIGHTING CONTROL PANEL (SLCP)
02		9 METER HIGH DOUBLE ARM STREET LIGHT POLE.
03		9 METER HIGH SINGLE ARM STREET LIGHT POLE.

NOTES :-

1. ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE NOTED.
2. FOR STREET LIGHTING CABLES SIZES REFER TO SLCP SLD DRAWING.
3. DISTANCE BETWEEN POLE TO POLE SHALL BE .
 - a) FOR 9 METER HEIGHT POLE = 27M
4. AT CURVES, DISTANCE BETWEEN POLE TO POLE SHALL BE .
 - a) FOR 9 METER HEIGHT POLE = 22M

ROD TYPE EARTHING FOR STREET LIGHTING POLE.

PROJECT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

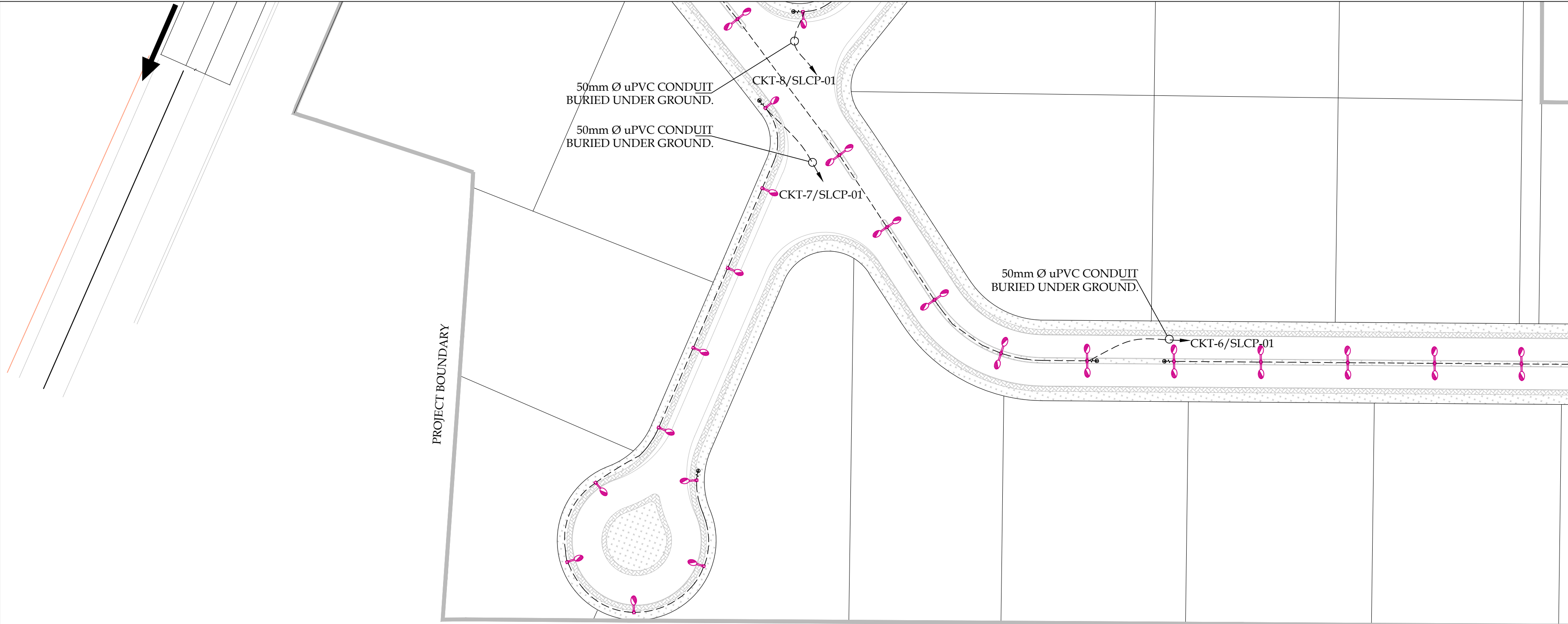
DRAWING TITLE:
**ROADS NETWORK
ENLARGED STREET
LIGHTING LAYOUT**

ORIGINAL :		DATE :	SCALE :	
A2		JULY, 2021		
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED
22-12-2021	TENDER DRAWINGS	M DEEN	ENGR UMAR KHALID	ENGR RAZA HAMID

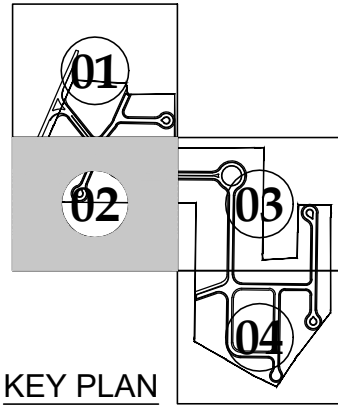
DRAWING N°:	SHEET	REV
NFIP-E-SLL-LP-01	01 OF 04	00

CLIENT:
 PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI,
PAKISTAN.
PHONE: 021-3568-5041-9

CONSULTANT:
 ASIAN CONSULTING ENGINEERS PVT.(LTD)
C-3 JHILLUM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN
TELEPHONE: +92 42 35450914-5 +92 32 143 71101
FAX: +92 42 35450916 WEB: www.asiancon.com



PROJECT BOUNDARY



KEY PLAN

LEGEND		
S.NO	SYMBOLS	DISCRPTION
01		STREET LIGHTING CONTROL PANEL (SLCP)
02		9 METER HIGH DOUBLE ARM STREET LIGHT POLE.
03		9 METER HIGH SINGLE ARM STREET LIGHT POLE.

NOTES :-

- ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE NOTED.
- FOR STREET LIGHTING CABLES SIZES REFER TO SLCP SLD DRAWING.
- DISTANCE BETWEEN POLE TO POLE SHALL BE .
 - FOR 9 METER HEIGHT POLE = 27M
- AT CURVES, DISTANCE BETWEEN POLE TO POLE SHALL BE .
 - FOR 9 METER HEIGHT POLE = 22M

ROD TYPE EARTHING FOR STREET LIGHTING POLE.

PROJECT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

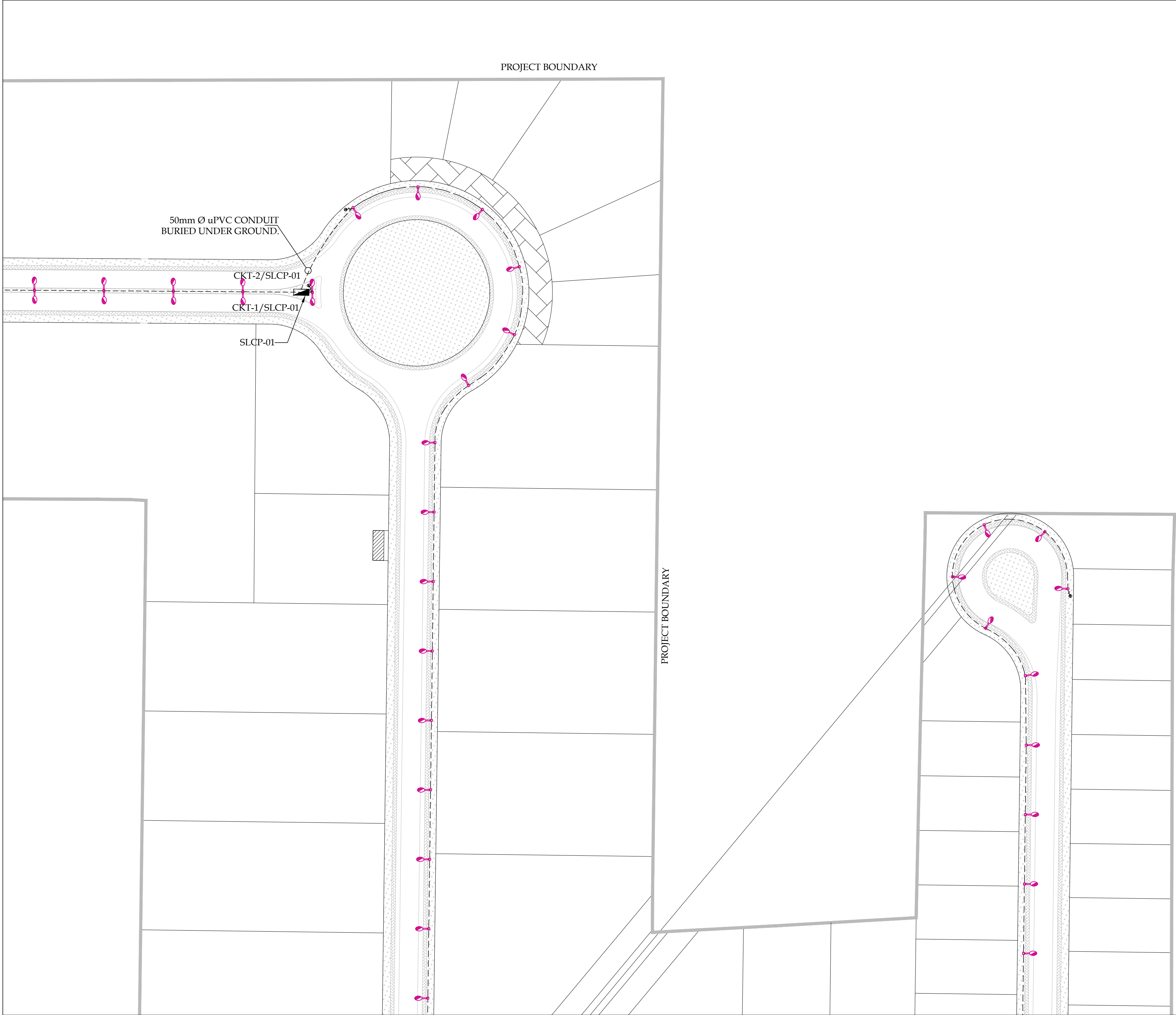
DRAWING TITLE:
ROADS NETWORK
ENLARGED STREET
LIGHTING LAYOUT

ORIGINAL :		DATE :		SCALE :	
A2		JULY, 2021			
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED	
22-12-2021	TENDER DRAWINGS	M DEEN	ENGR. UMAR KHAN	ENGR. RAZA HAN	

DRAWING N°:	SHEET	REV
NFIP-E-SLL-LP-02	02 OF 04	00

CLIENT:
 PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI,
PAKISTAN.
PHONE: 021-3568-5041-9

CONSULTANT:
 ASIAN CONSULTING ENGINEERS PVT.(LTD)
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TELEPHONE: +92 42 35450914-5 +92 32-143-71101
FAX: +92 42 35450916 WEB: www.asiancon.com



01

02

03

04

KEY PLAN

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LEGEND				
S.NO	SYMBOLS	DISCRIPTION		
01		STREET LIGHTING CONTROL PANEL (SLCP)		
02		9 METER HIGH DOUBLE ARM STREET LIGHT POLE		
03		9 METER HIGH SINGLE ARM STREET LIGHT POLE		

NOTES :-

1. ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE NOTED.

2. FOR STREET LIGHTING CABLES SIZES REFER TO SLCP SLD DRAWING.

3. DISTANCE BETWEEN POLE TO POLE SHALL BE .

a)

FOR 9 METER HEIGHT POLE = 27M

4. AT CURVES, DISTANCE BETWEEN POLE TO POLE SHALL BE .

a)

FOR 9 METER HEIGHT POLE = 22M

ROD TYPE EARTHING FOR STREET LIGHTING POLE.

PROJECT:

PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE:

ROADS NETWORK
ENLARGED STREET
LIGHTING LAYOUT

ORIGINAL :		DATE :		SCALE :	
A2		JULY, 2021			
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED	
22-12-2021	TENDER DRAWINGS	M DEN	ENGR UMAIR KHAN	ENGR RAZA HAMID	

DRAWING N°:

NFIP-E-SLL-LP-03

SHEET
03 OF 04

REV
00

CLIENT:

PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI,
PAKISTAN.
PHONE: 021-3568-5041-9

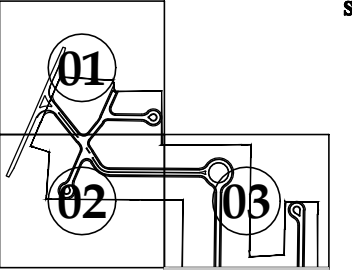
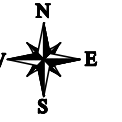
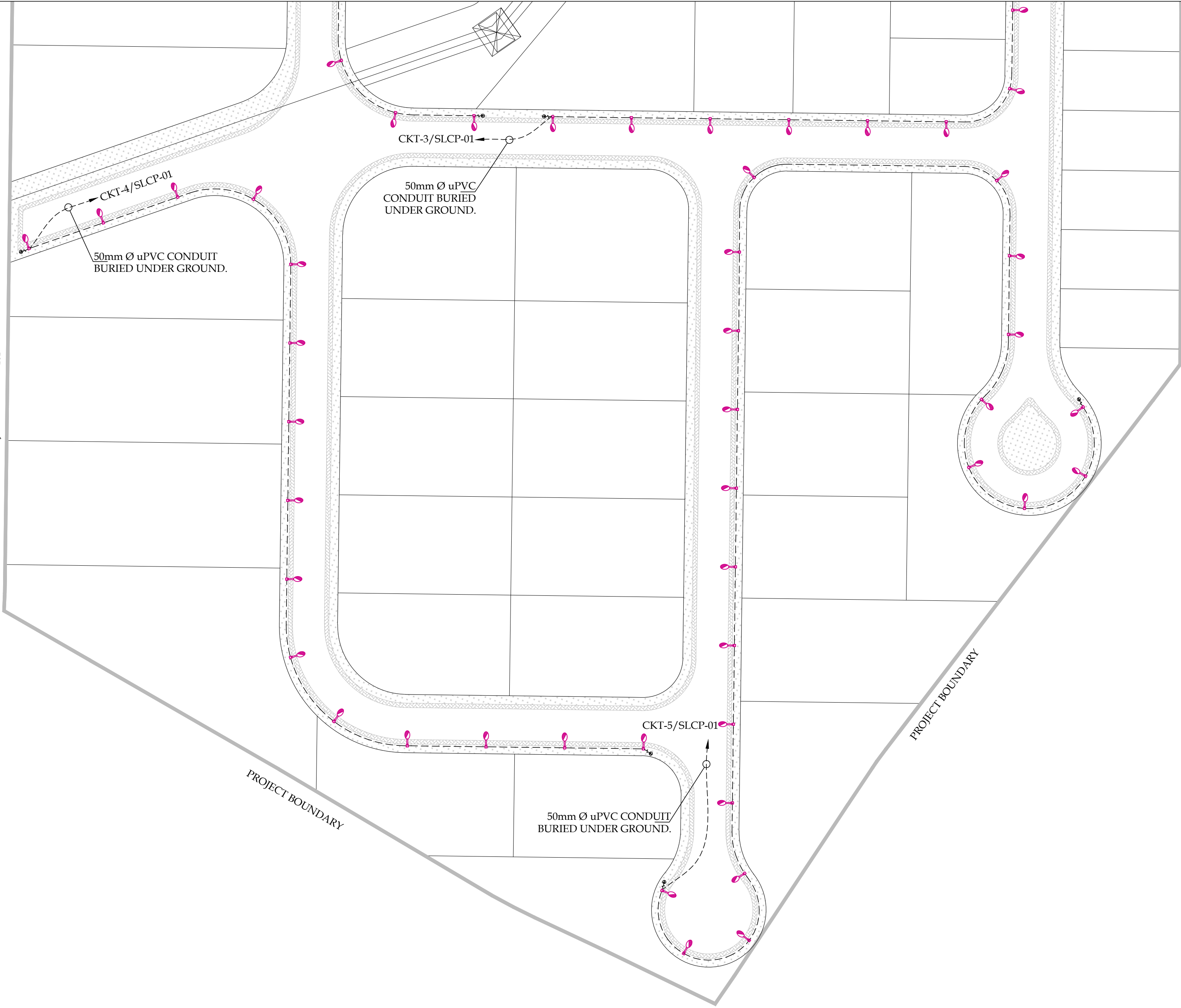
CONSULTANT:

ASIAN CONSULTING ENGINEERS PVT.(LTD)
C-3 JHELLUM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN
TELEPHONE: +92 42 35450914-5 +92 32-142-71101
FAX: +92 42 35450916 WEB: www.asiancon.com

PROJECT BOUNDARY

PROJECT BOUNDARY

PROJECT BOUNDARY



KEY PLAN

LEGEND		
S.NO	SYMBOLS	DISCRPTION
01		STREET LIGHTING CONTROL PANEL (SLCP)
02		9 METER HIGH DOUBLE ARM STREET LIGHT POLE
03		9 METER HIGH SINGLE ARM STREET LIGHT POLE

NOTES :-

- ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE NOTED.
- FOR STREET LIGHTING CABLES SIZES REFER TO SLCP SLD DRAWING.
- DISTANCE BETWEEN POLE TO POLE SHALL BE .
 - FOR 9 METER HEIGHT POLE = 27M
- AT CURVES, DISTANCE BETWEEN POLE TO POLE SHALL BE .
 - FOR 9 METER HEIGHT POLE = 22M

⊕ ROD TYPE EARTHING FOR STREET LIGHTING POLE.

PROJECT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

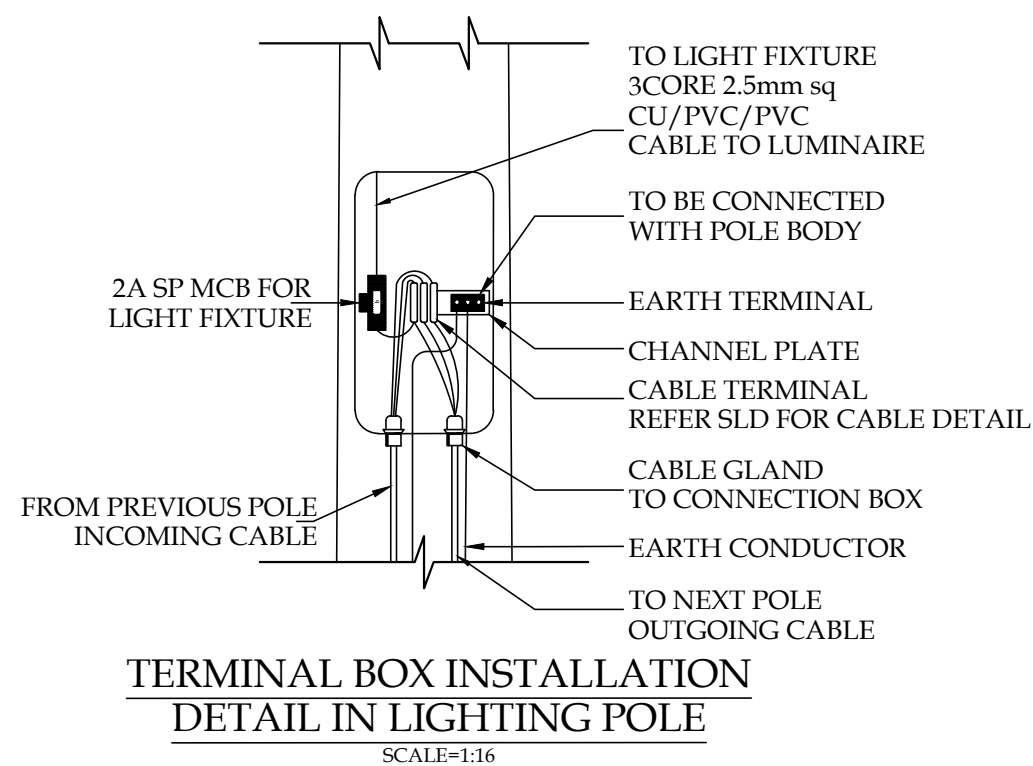
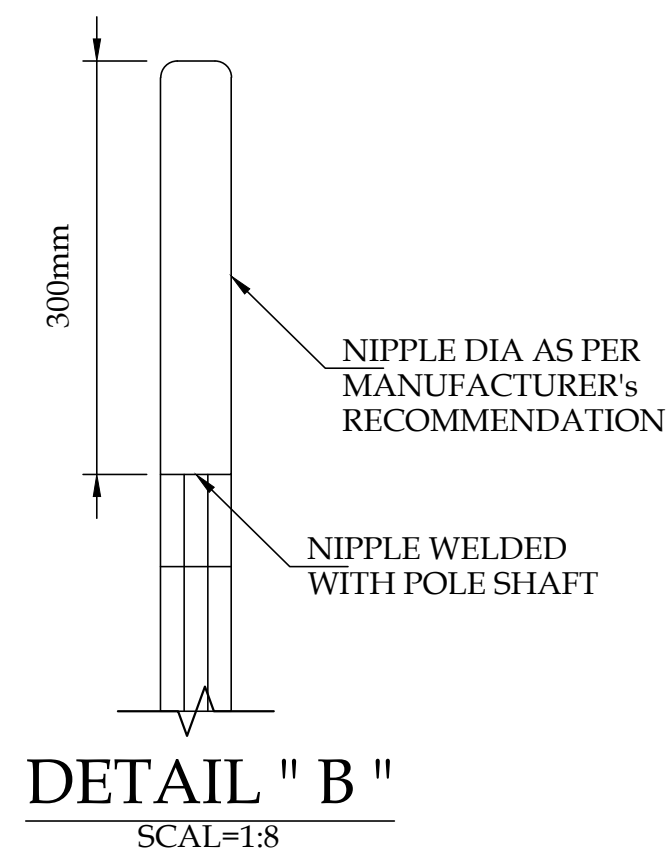
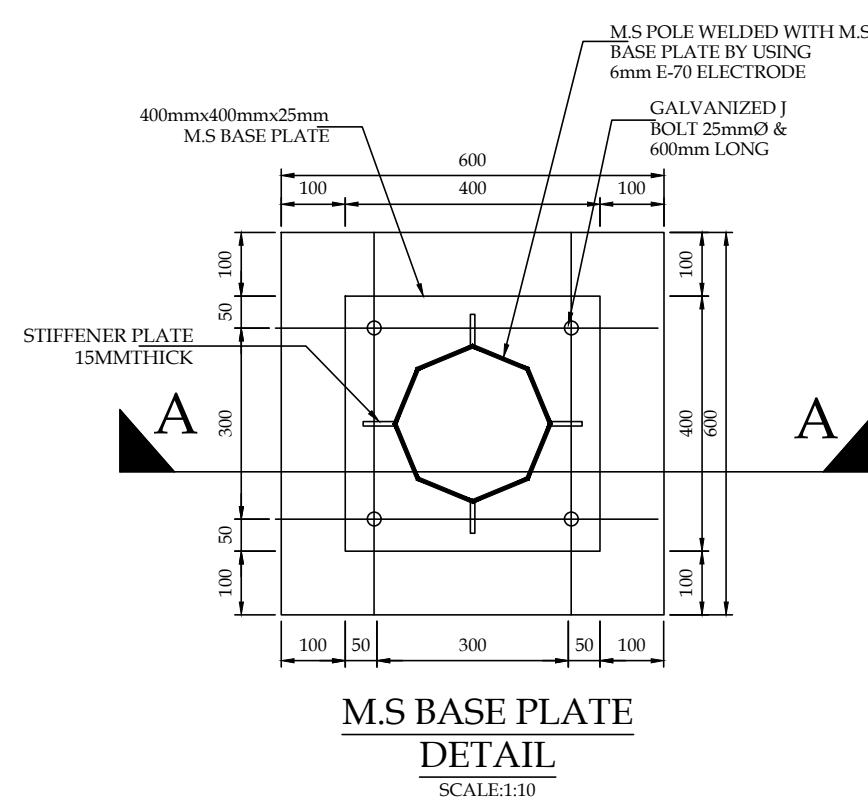
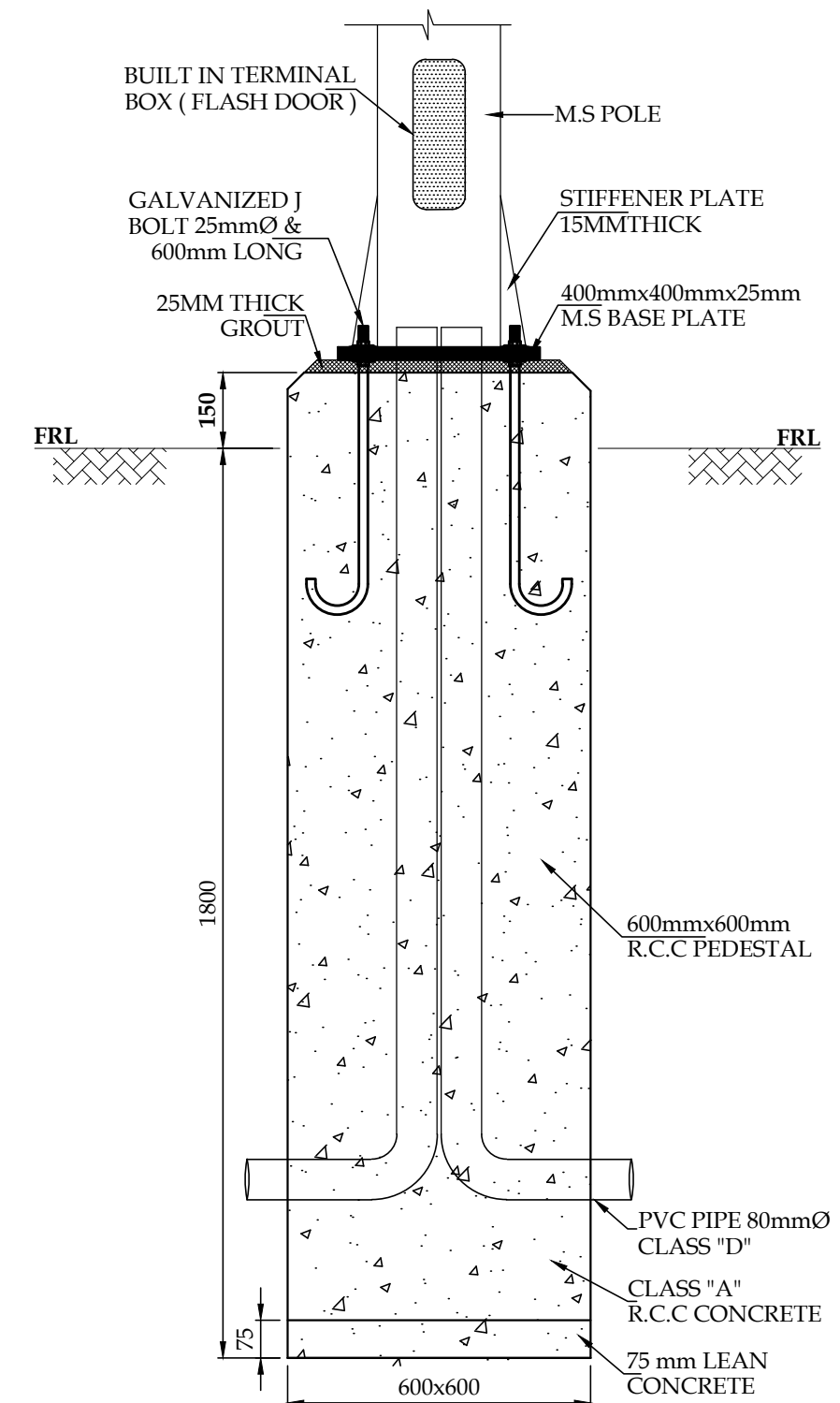
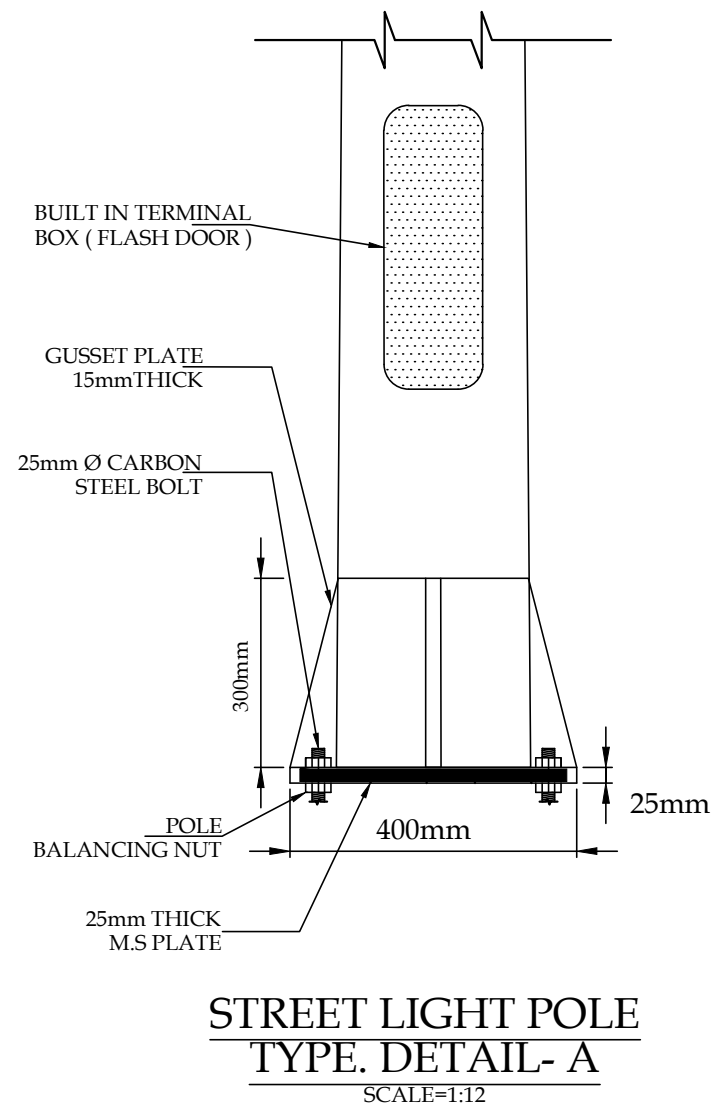
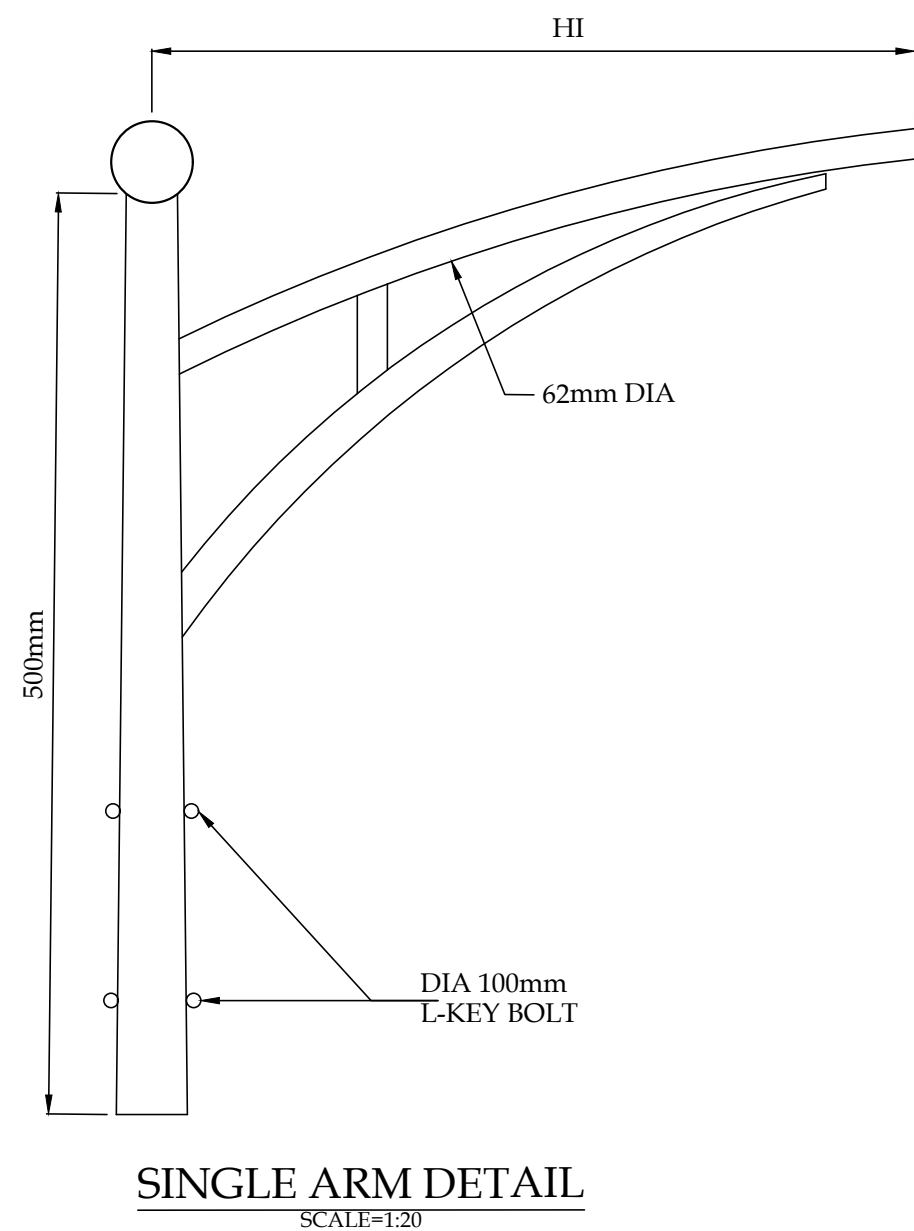
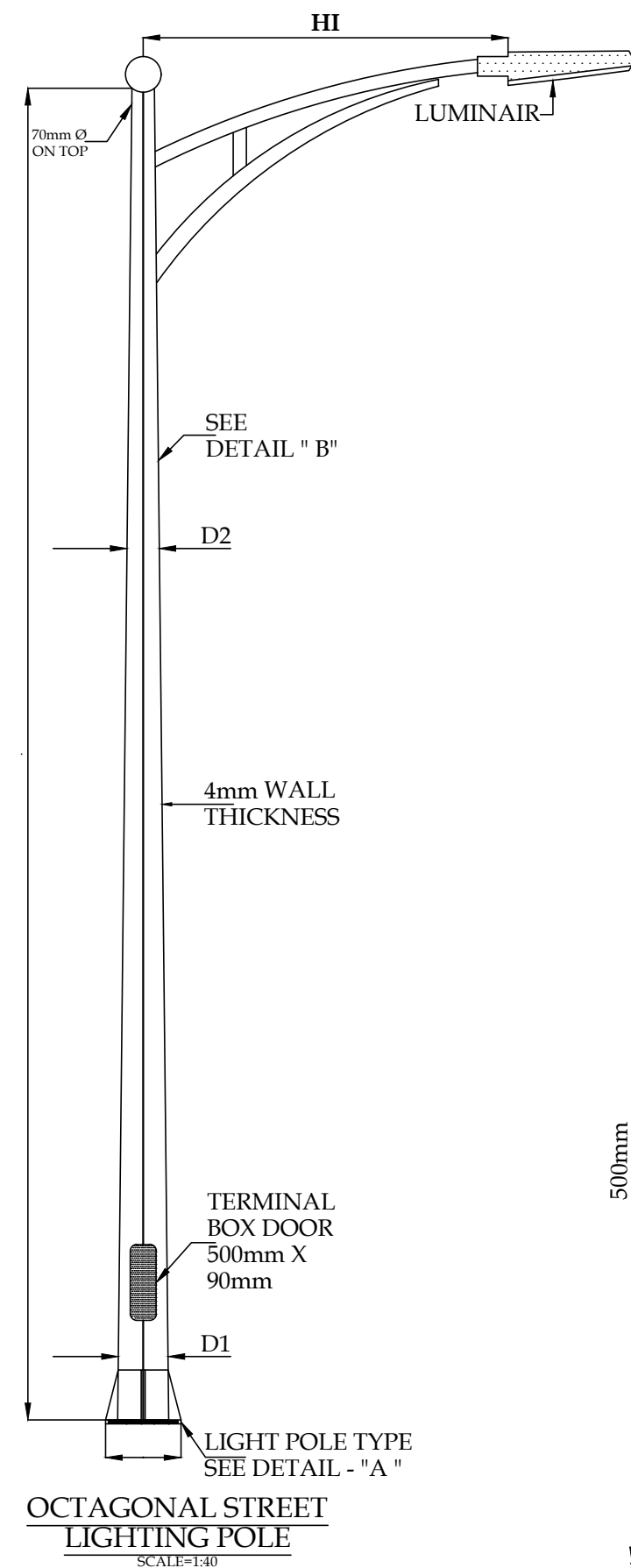
DRAWING TITLE:
ROADS NETWORK
ENLARGED STREET
LIGHTING LAYOUT

ORIGINAL:		DATE:		SCALE:	
A2		JULY, 2021			
DATE	DESCRIPTION		DRAWN	DESIGNED	APPROVED
22-12-2021	TENDER DRAWINGS		M DEEN	ENGR UMAIR KHALID	ENGR RAZA HAMID

DRAWING N°:	SHEET	REV
NFIP-E-SLL-LP-04	04 OF 04	00

CLIENT:
 PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI,
PAKISTAN.
PHONE: 021-3568-5041-9

CONSULTANT:
 ASIAN CONSULTING ENGINEERS PVT.(LTD)
C-3 JHILLUM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN
TELEPHONE: +92 42 35450914-5 +92 32-143-71101
FAX: +92 42 35450916 WEB: www.asiancon.com



STREET LIGHT POLE SCHEDULE								
S./NO	SYMBOL	POLE DEMENSIONS					FIXTURE & POLE ARM DETAILS	
		H (mm)	D1 (mm)	D2 (mm)	OVER HANG H1 (mm)	ANGLE TILT 90°	LUMINAIR	BRACKET
01		90000	190	75	1200	10°	100 WATTS LED LIGHT FIXTURE (IP-66)	SINGLE ARM
02		90000	190	75	1200	10°	100 WATTS LED LIGHT FIXTURE (IP-66)	DOUBLE ARM

PROJECT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAU SHAHRO FEROZE INDUSTRIAL PARK, NAU SHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE:

ROADS NETWORK
LIGHTING POLE INSTALLATION &
MISCELLANEOUS DETAIL

ORIGINAL :		DATE :		SCALE :	
A2		JULY, 2021			
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED	
22-12-2021	TENDER DRAWINGS	M DEEN	ENGR UMAIR KHALID	ENGR RAZA HAMID	

DRAWING N°:

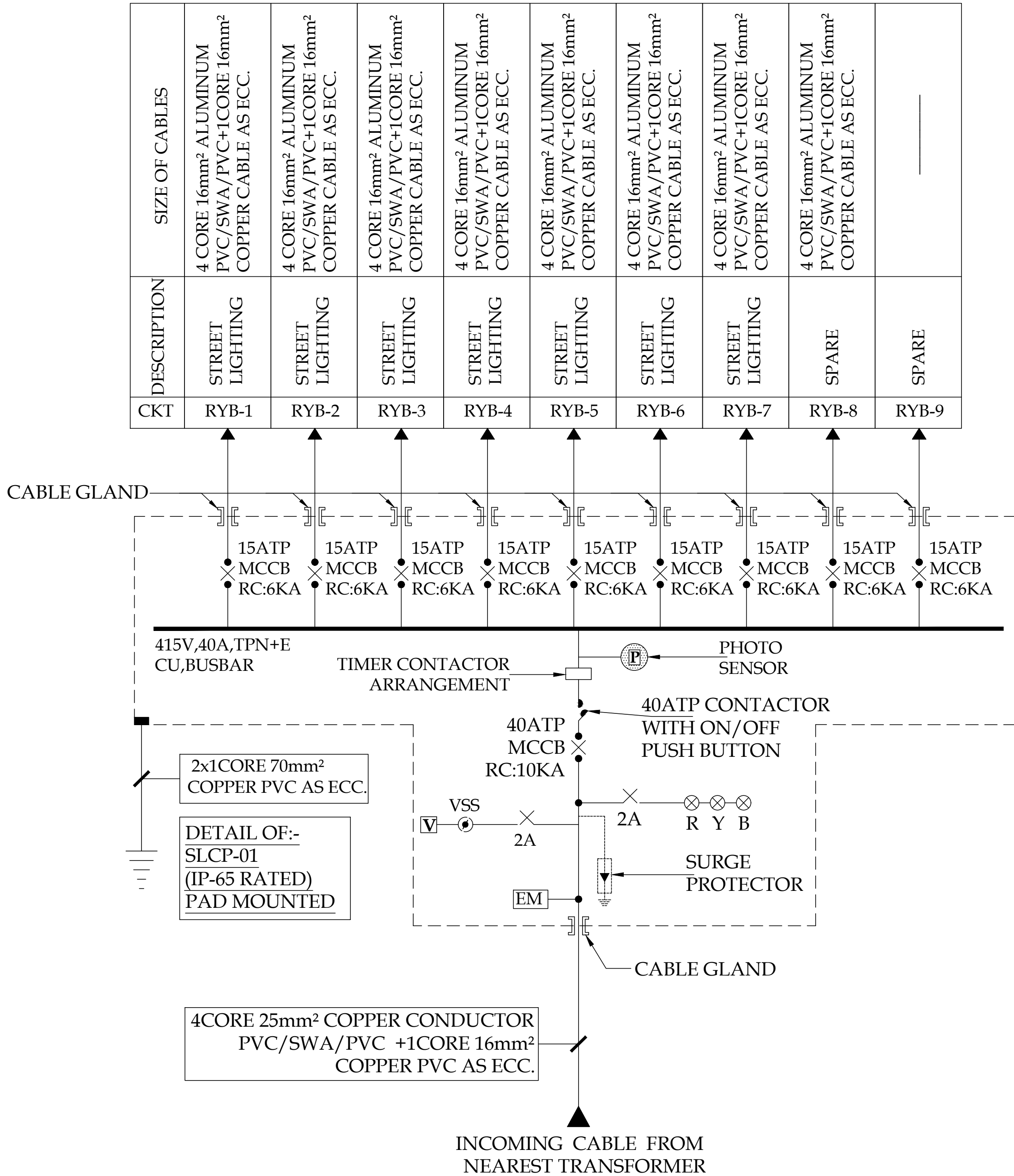
NFIP-E-SLL-TD-01

CLIENT:

 **PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)**
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI, PAKISTAN.
PHONE: 021-3568-5041-9

CONSULTANT:

 **ASIAN CONSULTING ENGINEERS PVT.(LTD)**
C-3 JHELUM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN
TELEPHONE: +92 42 35450914-5 +92 32-142-71101
Fax: +92 42 35450916 WEB: www.asiancon.com



PROJECT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE:
ROADS NETWORK
SINGLE LINE DIAGRAM OF:-
STREET LIGHTING CONTROL PANEL.

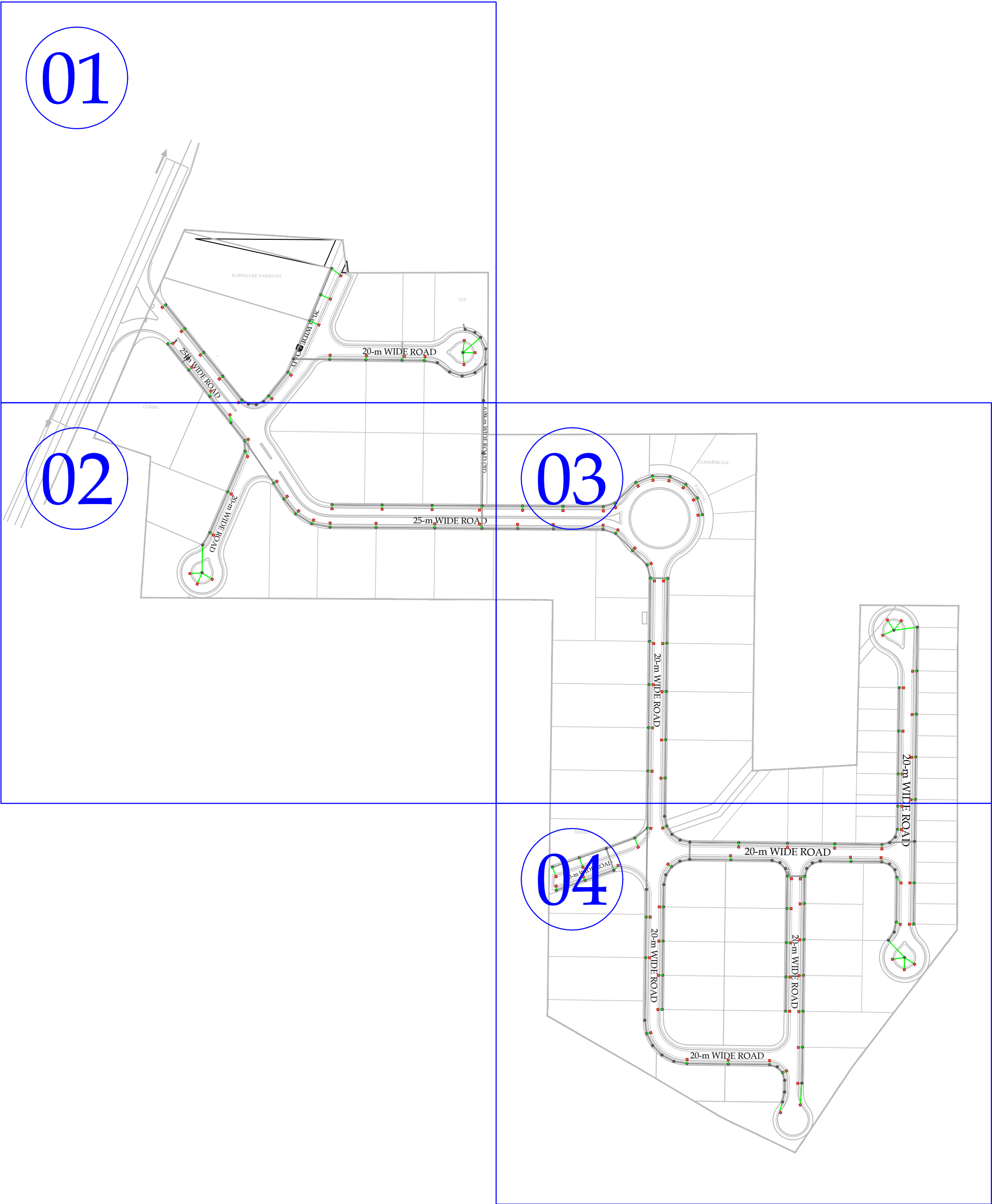
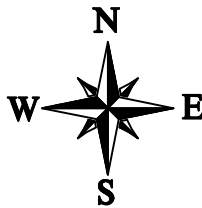
ORIGINAL:	A2	DATE:	JULY, 2021	SCALE:	
DATE:	22-12-2021	DESCRIPTION:	TENDER DRAWINGS	DRAWN:	M DEEN
DESIGNED:		ENGINEER:	UMAIR KHALID	APPROVED:	RAZA HAMID

DRAWING N°:	NFIP-E-SLL-SLD-01	SHEET	01 OF 01	REV	00
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CLIENT:
 PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI,
PAKISTAN.
PHONE: 021-3568-5041-9

CONSULTANT:
 ASIAN CONSULTING ENGINEERS PVT.(LTD)
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TELEPHONE: +92 42 35450914-5 +92 30-142-71101
FAX: +92 42 35450916 WEB: www.asiancon.com

STORM WATER DRAINAGE



NOTES:

1. ALL DIMENSIONS SHOWN ARE IN METERS UNLESS OTHERWISE MENTIONED.

LEGEND:

- 6"Ø uPVC PIPE
- CATCH PIT
- MANHOLE

PROJECT:

PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE:

STORM WATER DRAINAGE
CATCH PIT
KEY PLAN

ORIGINAL :		DATE :		SCALE :	
A2		JULY, 2021			
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED	
05-05-2025	TENDER DRAWINGS	ASAD	ENGR. TAHA	ENGR. HASAN	

DRAWING N°:

NFIP-SWD-KP-8000

SHEET
01 OF 1

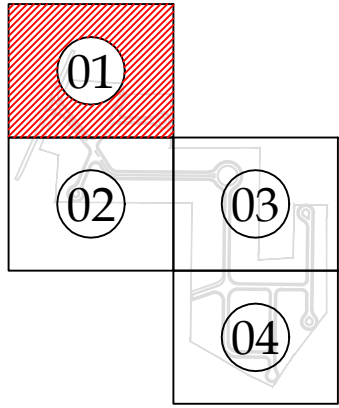
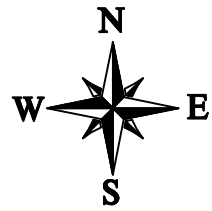
REV
00

CLIENT:

PAKISTAN INDUSTRIAL DEVELOPMENT
CORPORATION (PIDC)
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI,
PAKISTAN.
PHONE: 021-3568-5041-9

CONSULTANT:

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TELEPHONE: +92 42 35450914-5 +92 32-143-71101
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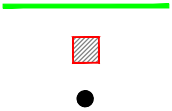
KEY PLAN

NOTES:

1. ALL DIMENSIONS SHOWN ARE IN METERS UNLESS OTHERWISE MENTIONED.

LEGEND:

- 6"Ø uPVC PIPE
CATCH PIT
MANHOLE



PROJECT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

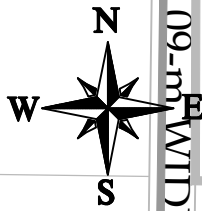
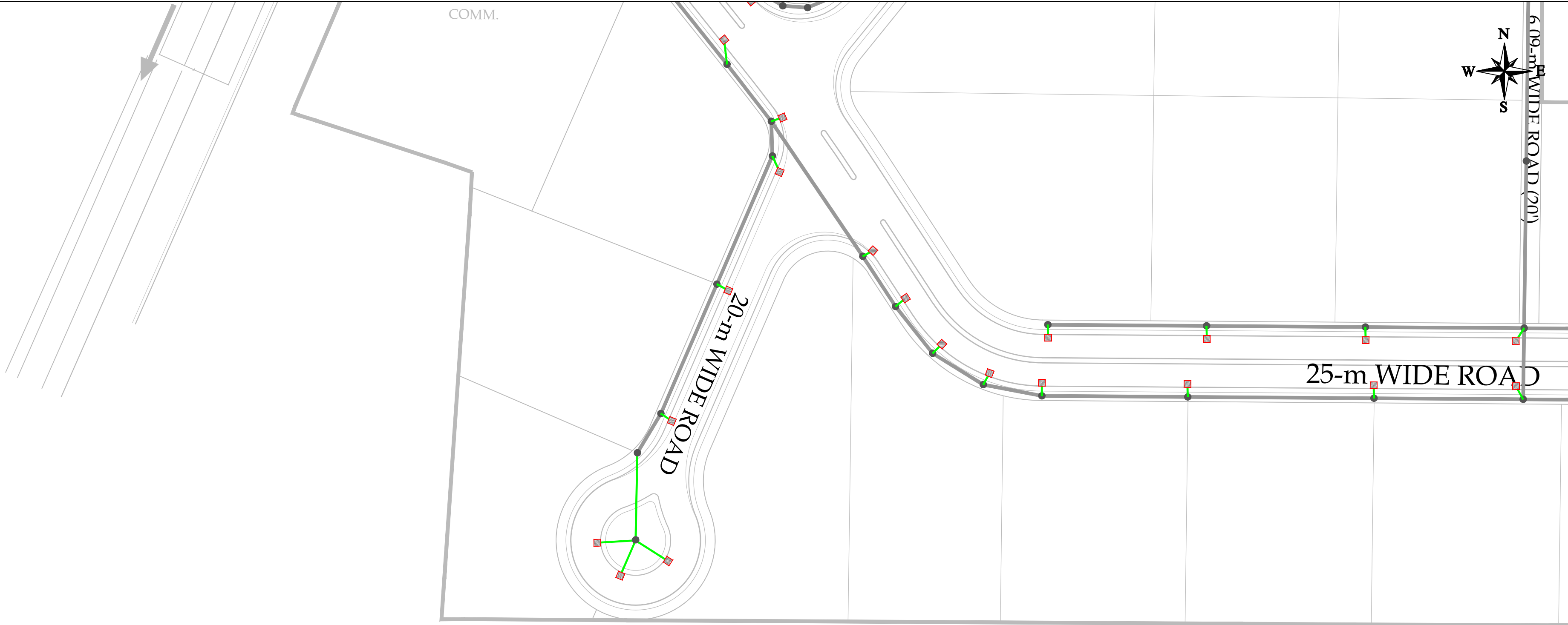
DRAWING TITLE:
STORM WATER DRAINAGE
CATCH PIT
LAYOUT PLAN

ORIGINAL:		DATE:		SCALE:	
A2		JULY, 2021			
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED	
28-05-2025	TENDER DRAWINGS	ASAD	ENGJR TAHA	ENGR HASEEB	

DRAWING N°:	SHEET	REV
NFIP-SWD-LP-8001	01 OF 04	00

CLIENT:
 PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI, PAKISTAN.
PHONE: 021-3568-5041-9

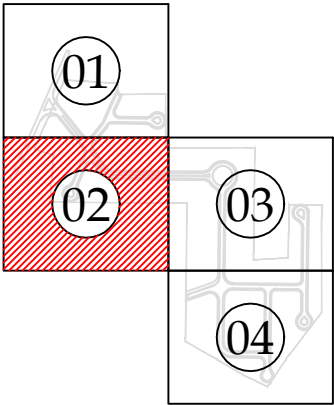
CONSULTANT:
 ASIAN CONSULTING ENGINEERS PVT.(LTD)
C-3 JHILLUM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN
TELEPHONE: +92 42 35450914-5 +92 32-142-71101
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6.09-m WIDE ROAD (20)

20-m WIDE ROAD

25-m WIDE ROAD



KEY PLAN

- NOTES:
1. ALL DIMENSIONS SHOWN ARE IN METERS UNLESS OTHERWISE MENTIONED.

LEGEND:

- 6"Ø uPVC PIPE
- CATCH PIT
- MANHOLE

PROJECT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

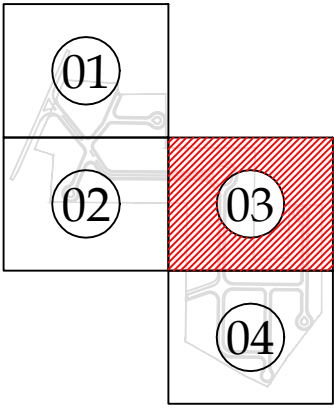
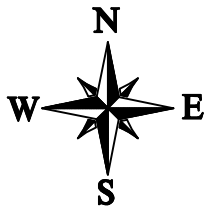
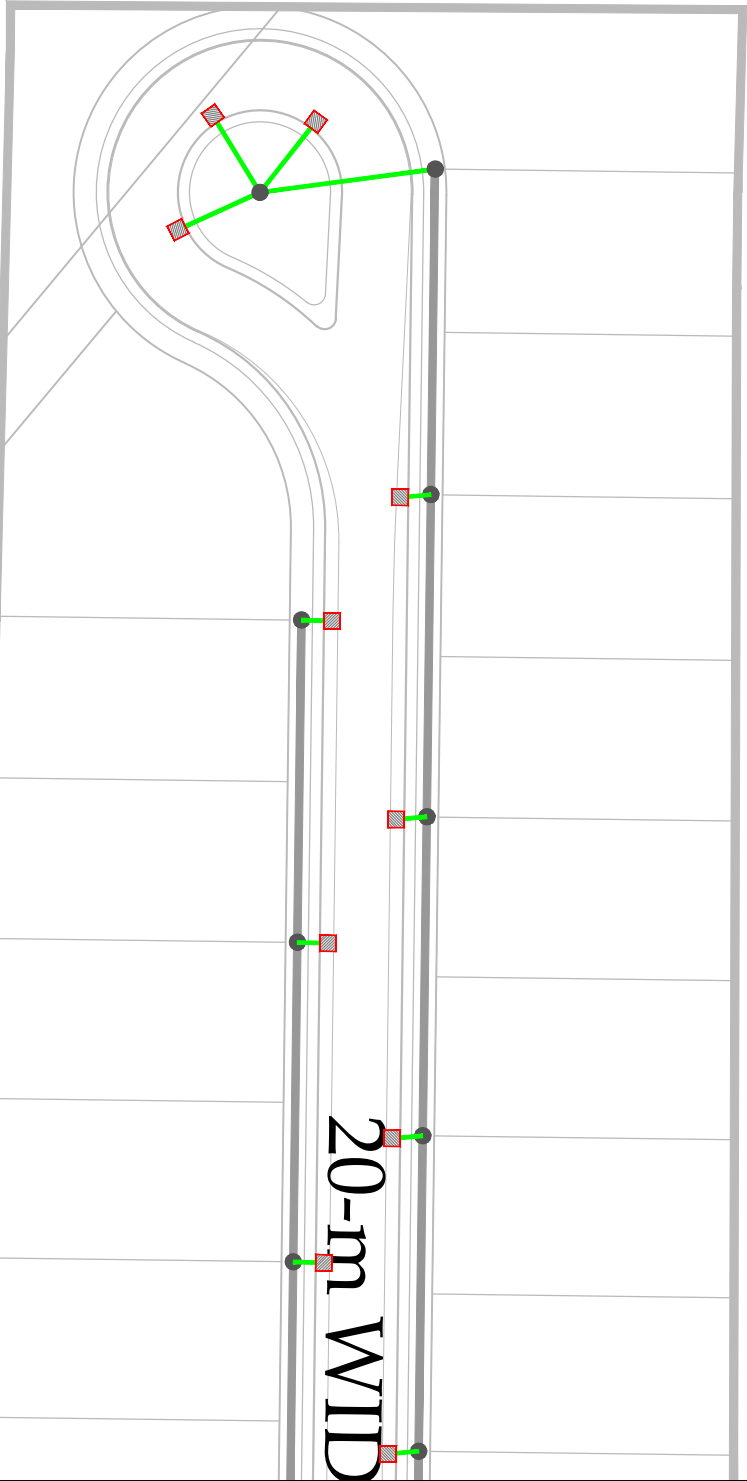
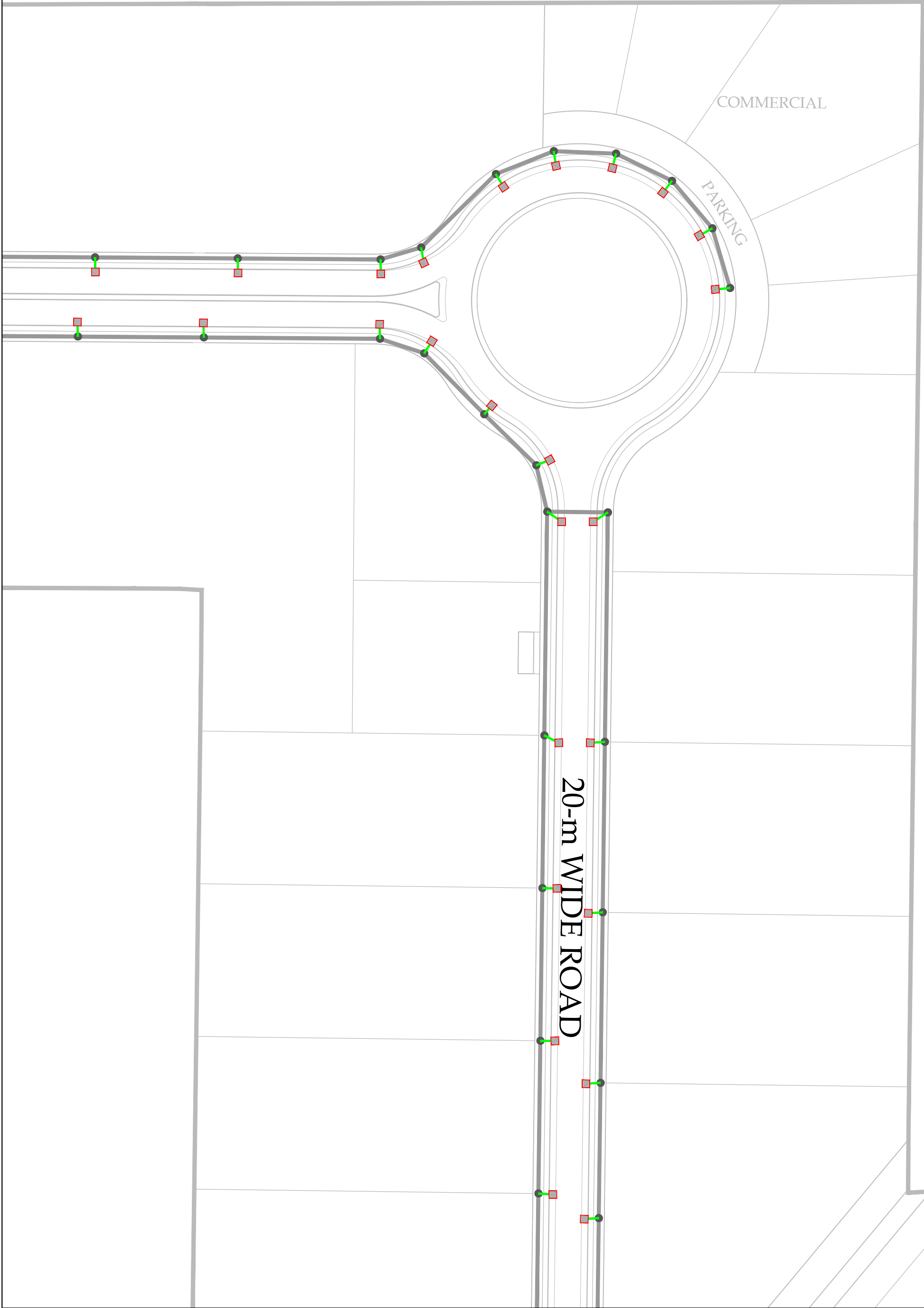
DRAWING TITLE:
STORM WATER DRAINAGE
CATCH PIT
LAYOUT PLAN

ORIGINAL :		DATE :	SCALE :	
A2		JULY, 2021		
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED
28-05-2025	TENDER DRAWINGS	ASAD	ENGUR TAHA	ENGUR HASEEB

DRAWING N°:		SHEET	REV
NFIP-SWD-LP-8002		02 OF 04	00

CLIENT:
 PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI,
PAKISTAN.
PHONE: 021-3568-5041-9

CONSULTANT:
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FAX: +92 42 35450916 WEB: www.asiancon.com



KEY PLAN

- NOTES:
1. ALL DIMENSIONS SHOWN ARE IN METERS UNLESS OTHERWISE MENTIONED.

LEGEND:

- 6"Ø uPVC PIPE
- CATCH PIT
- MANHOLE

PROJECT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

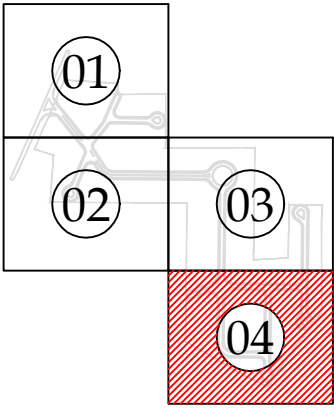
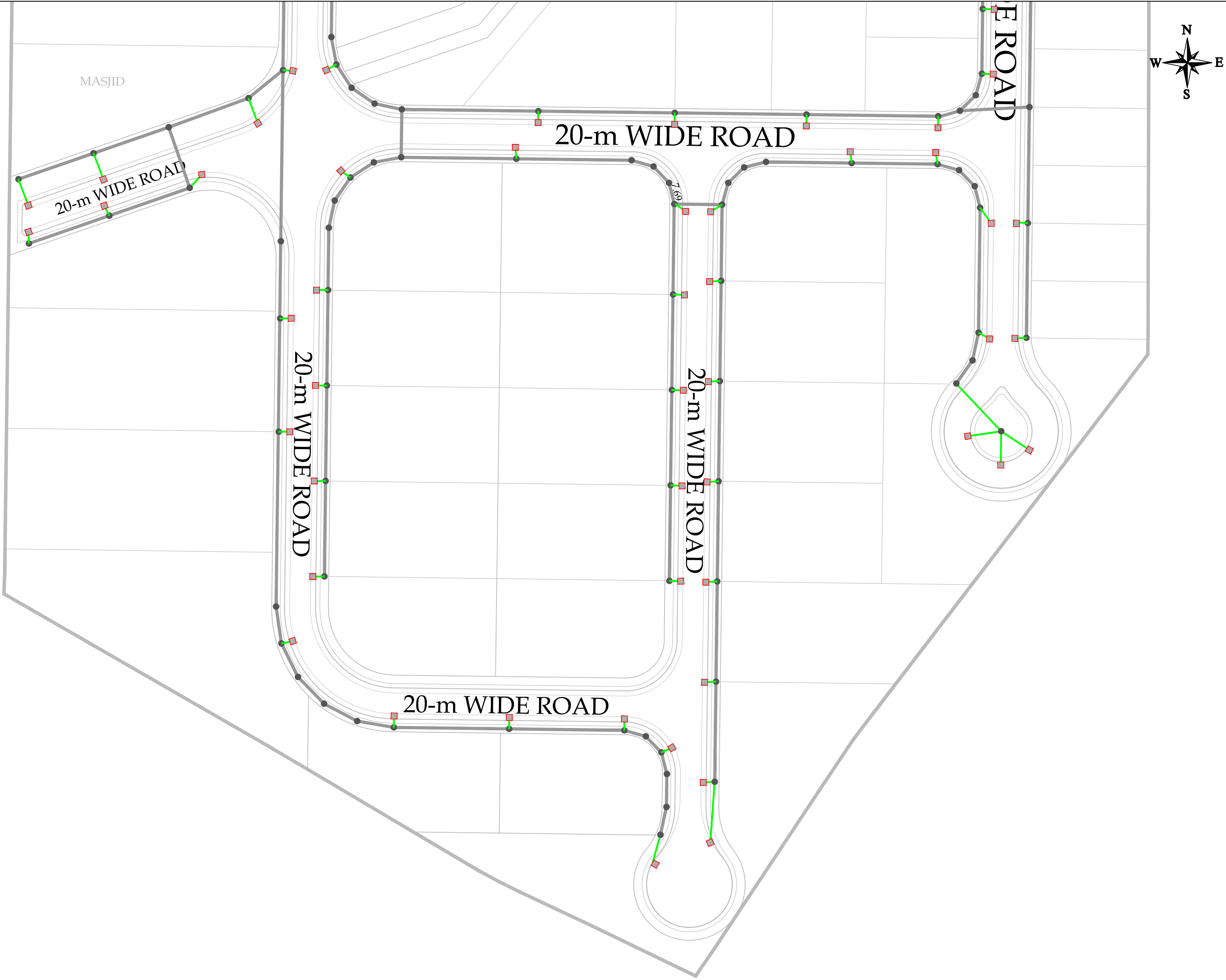
DRAWING TITLE:
STORM WATER DRAINAGE
CATCH PIT
LAYOUT PLAN

ORIGINAL :		DATE :		SCALE :	
A2		JULY, 2021			
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED	
26-05-2025	TENDER DRAWINGS	ASAD	ENGR. TAHA	ENGR. HASEEB	

DRAWING N°:	SHEET	REV
NFIP-SWD-LP-8003	03 OF 04	00

CLIENT:
 PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI, PAKISTAN.
PHONE: 021-3568-5041-9

CONSULTANT:
 ASIAN CONSULTING ENGINEERS PVT.(LTD)
C-3 JHILLUM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN
TELEPHONE: +92 42 35450914-5 +92 32-143-71101
FAX: +92 42 35450916 WEB: www.asiancon.com



KEY PLAN

NOTES:
1. ALL DIMENSIONS SHOWN ARE IN METERS UNLESS OTHERWISE MENTIONED.

LEGEND:

- 6"Ø uPVC PIPE
- CATCH PIT
- MANHOLE

PROJECT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE:
STORM WATER DRAINAGE
CATCH PIT
LAYOUT PLAN

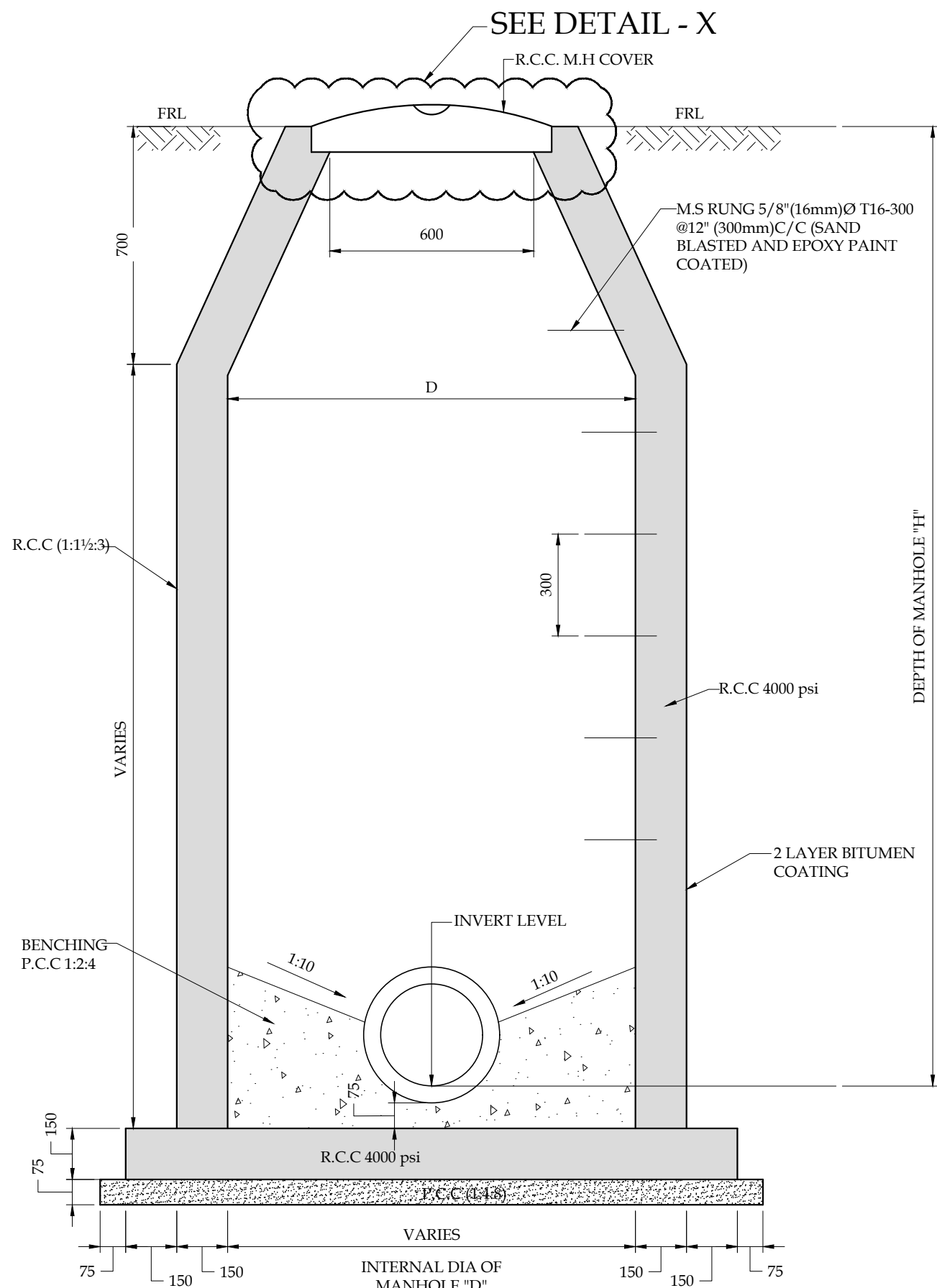
ORIGINAL :		DATE :		SCALE :	
A2		JULY, 2021			
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED	
28-05-2025	TENDER DRAWINGS	ASAD	ENGJR TAHA	ENGJR HASEEB	

DRAWING N°:		SHEET	REV
NFIP-SWD-LP-8004		04 OF 04	00

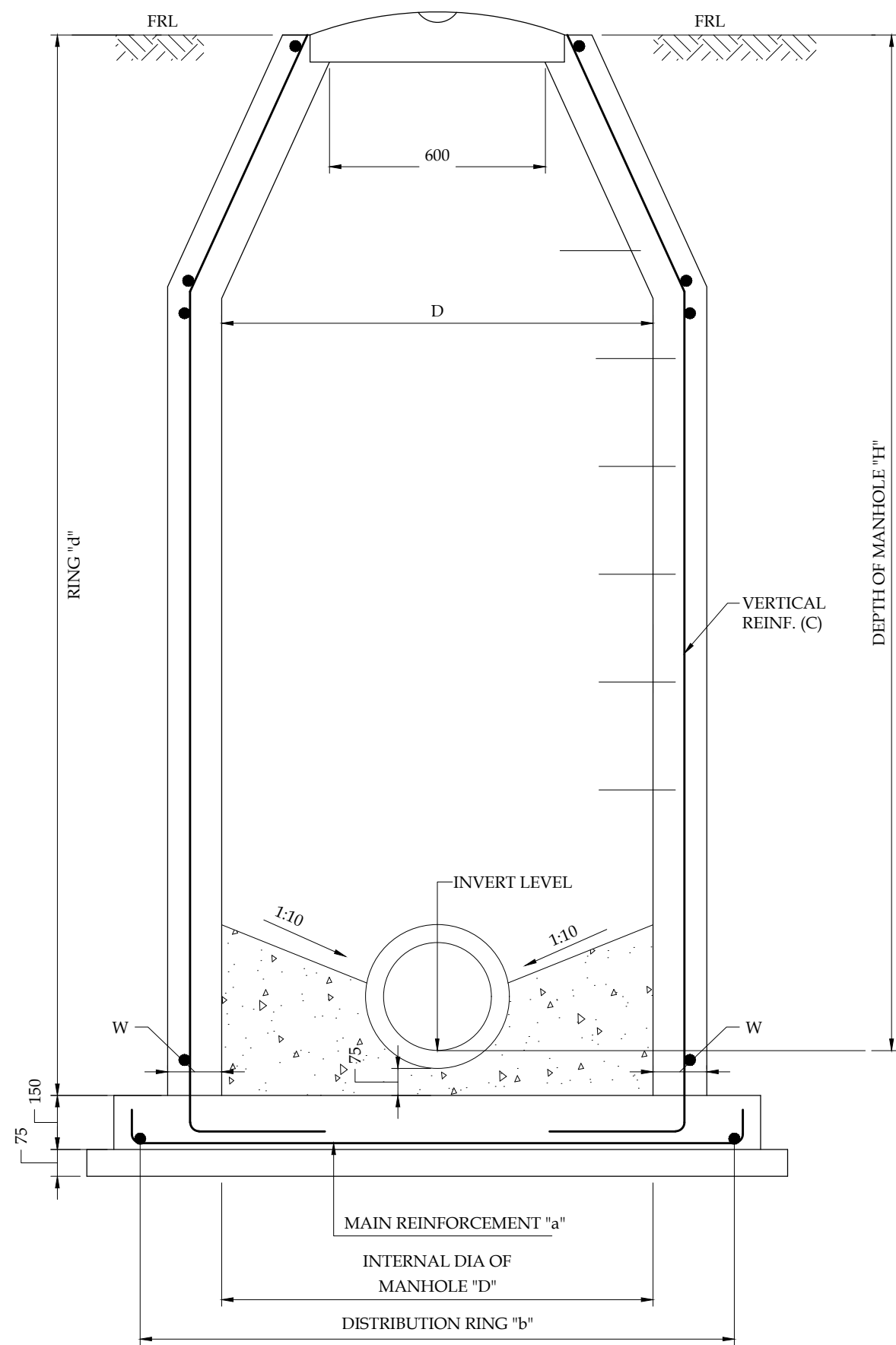
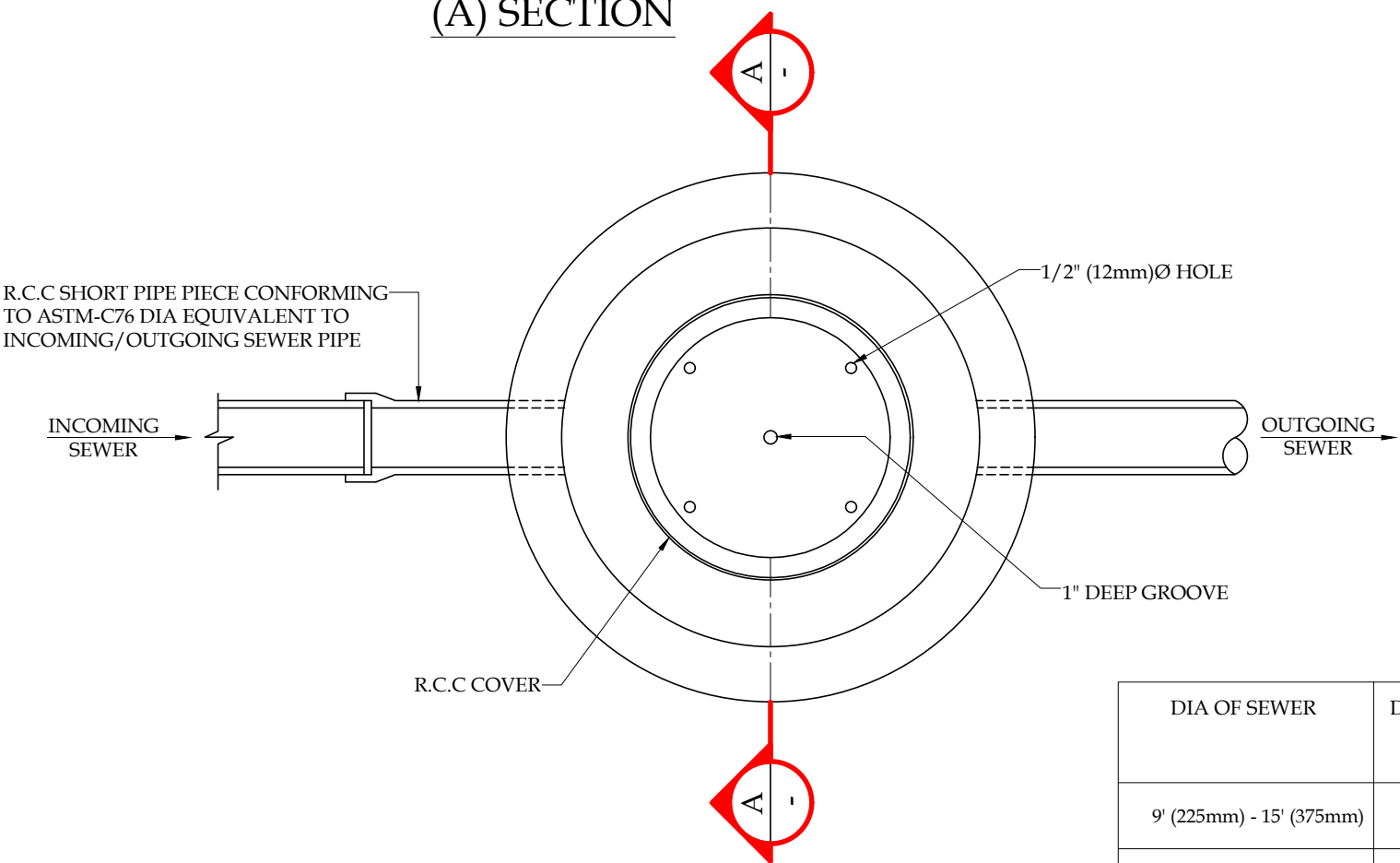
CLIENT:
 PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI,
PAKISTAN.
PHONE: 021-3568-5041-9

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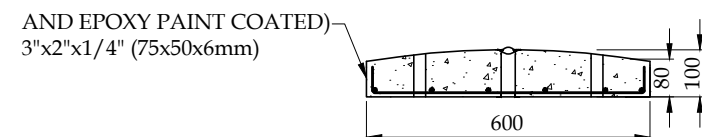
TYPICAL DETAILS



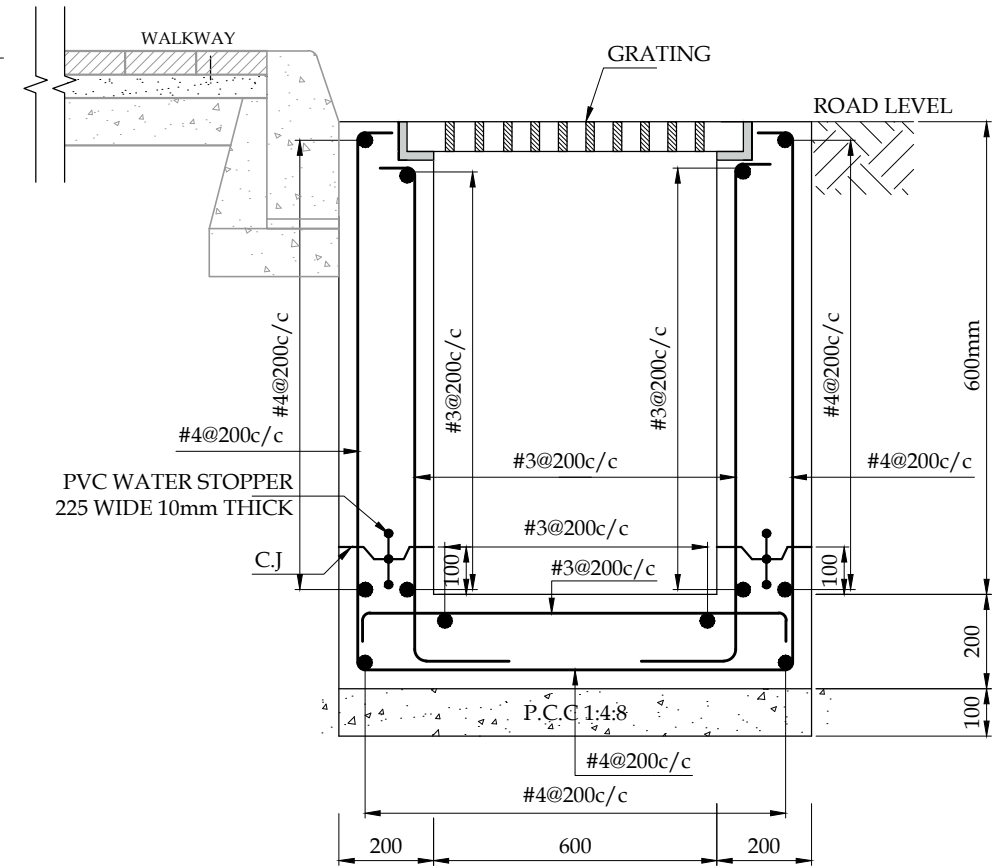
(A) SECTION



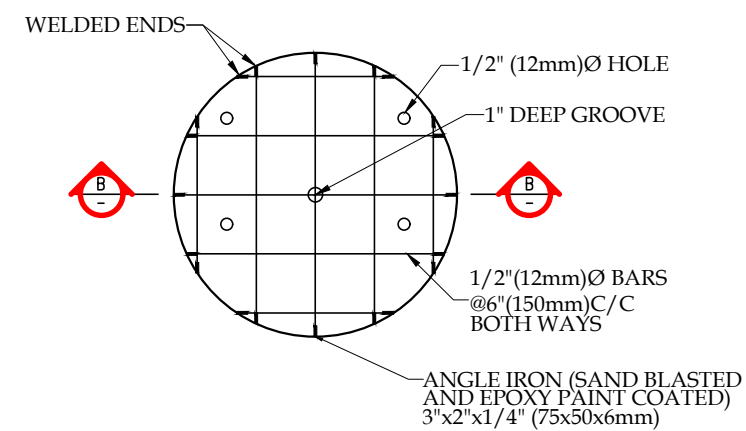
(A) SECTION



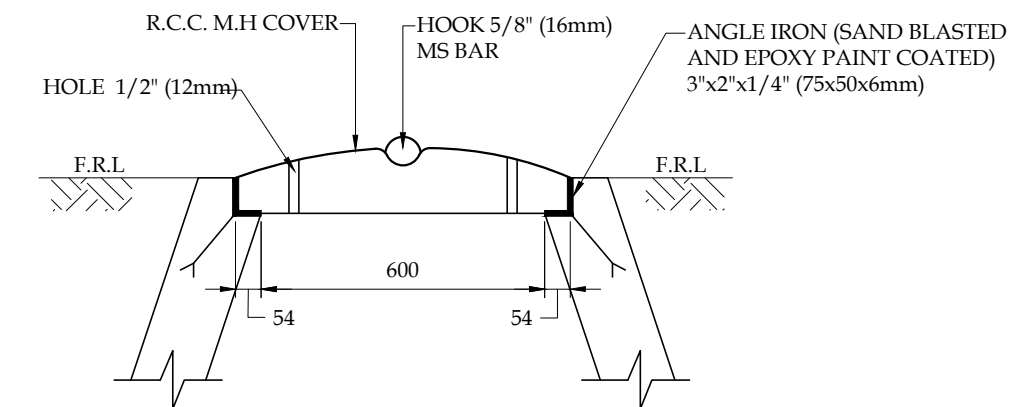
(B) SECTION



SECTION B-B
(REINFORCEMENT)
Scale :- 1:16



DETAIL OF MANHOLE COVER



DETAIL-X
R.C.C M.H COVER AND FRAME

SCHEDULE OF MANHOLE

DIA OF SEWER	DEPTH OF MANHOLE FT. "H"	INTERNAL DIA OF MANHOLE FT "D"	THICKNESS OF WALL "W" INCHES	BASE SLAB "B" INCHES	WALL REINFORCEMENT		BASE SLAB REINFORCEMENT	
					VERTICAL REINF. "C"	RING REINF. "d"	MAIN REINFORCEMENT "a"	DISTRIBUTION RING "b"
9' (225mm) - 15' (375mm)	ABOVE 8' (2400mm) UPTO 14' (4200mm)	4'-0" (1200mm)	6" (150mm)	6" (150mm)	3/8" (10mm) @5" (125mm) C/C	3/8" (10mm) @5" (125mm) C/C	3/8" (10mm) @5" (125mm) C/C	3/8" (10mm) @5" (125mm) C/C
18' (450mm) - 36' (900mm)	ABOVE 8' (2400mm) UPTO 14' (4200mm)	5'-0" (1500mm)	6" (150mm)	6" (150mm)	3/8" (10mm) @5" (125mm) C/C	3/8" (10mm) @5" (125mm) C/C	3/8" (10mm) @5" (125mm) C/C	3/8" (10mm) @5" (125mm) C/C

NOTES

1. ALL DIMENSIONS ARE IN MM, EXCEPT WHERE OTHERWISE MENTIONED.
2. EXCEPT WHERE OTHERWISE SPECIFIED, ALL REINFORCED CEMENT CONCRETE IN WASTEWATER RETAINING STRUCTURES, SHALL BE CLASS B, USING SULFATE RESISTANT PORTLAND CEMENT (ASTM: C150 - TYPE V).
3. ALL STEEL REINFORCEMENT (#3 & ABOVE), EXCEPT FOR SHEAR STIRRUPS AND COLUMN TIES, SHALL CONFORM TO ASTM A-615 (GRADE 60).

Concrete Class	Minimum 28-day Cylinder Strength 2 kg/cm ² (psi)	Minimum Cement Contents 3 kg/m ³ (lb/ft ³)	Mix Ratio by Volume
Class B	281 (4000)	396 (24.7)	-

4. CONCRETE COVER
 - FOUNDATION
 - BOTTOM = 2" TOP = 2"
 - SIDES = 3"
 - SLAB = 1"
 - R.C.C WALL = 2"

PROJECT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE:

TYPICAL MANHOLE
DETAILS

ORIGINAL :		DATE :		SCALE :	
A2		JULY, 2021		---	
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED	
28-05-2025	TENDER DRAWINGS	ASAD	ENGR. TAHJA	ENGR. HASEEB	

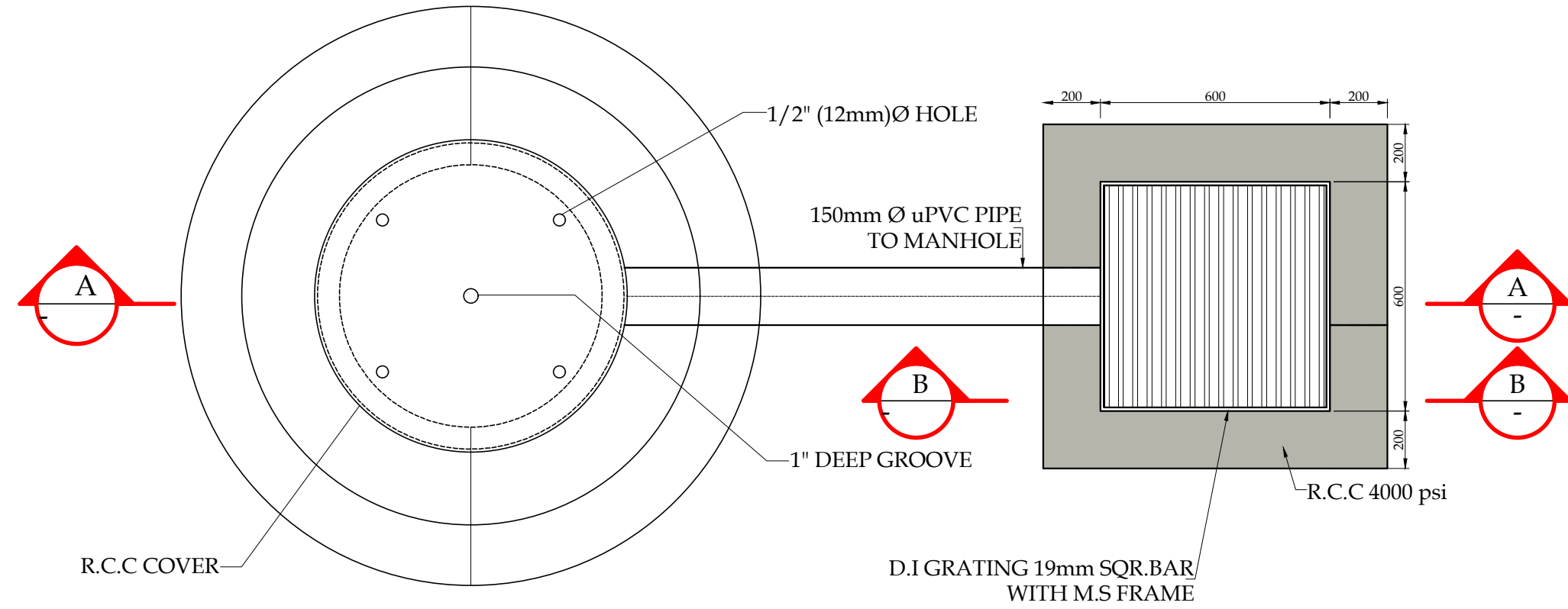
DRAWING N°:	SHEET	REV
NFIP-SWD-TD-01	--	00

CLIENT:

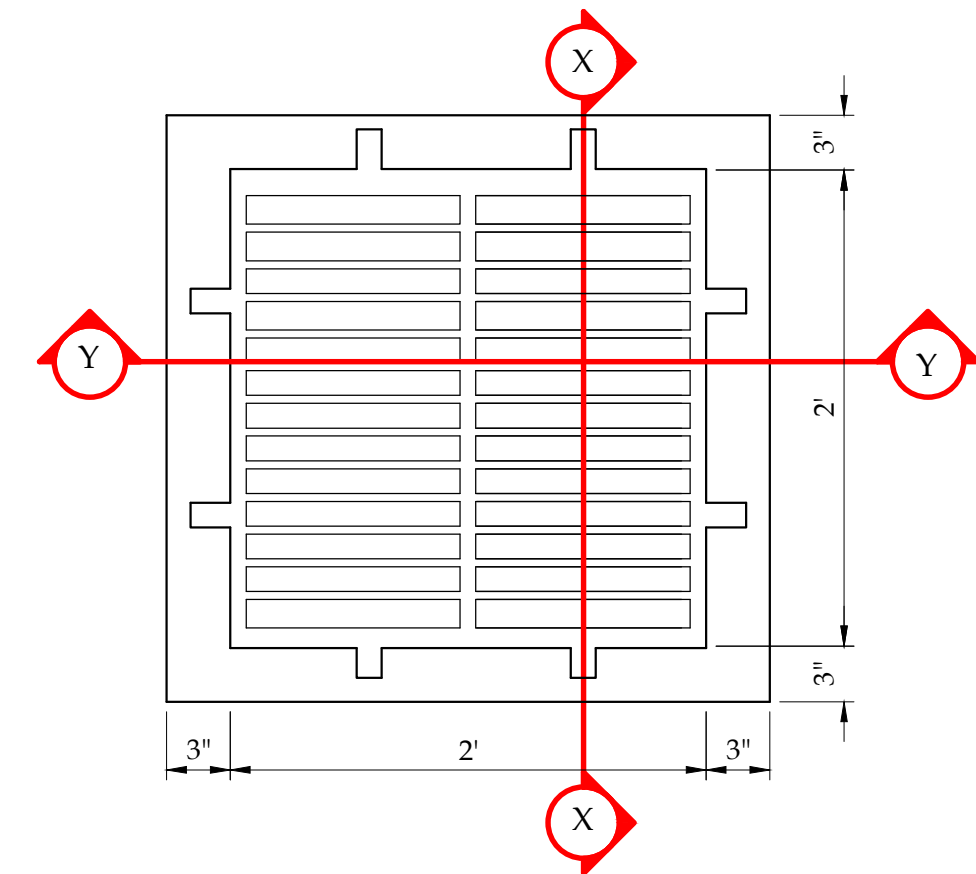
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI, PAKISTAN.
PHONE: 021-3568-5041-9

CONSULTANT:

ASIAN CONSULTING ENGINEERS (PVT.) LTD.
C-3 JHELIUM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN
TELEPHONE: +92 42 35405914-5 +92 32-142-71101
FAX: +92 42 35405916 WEB: www.asiancon.com

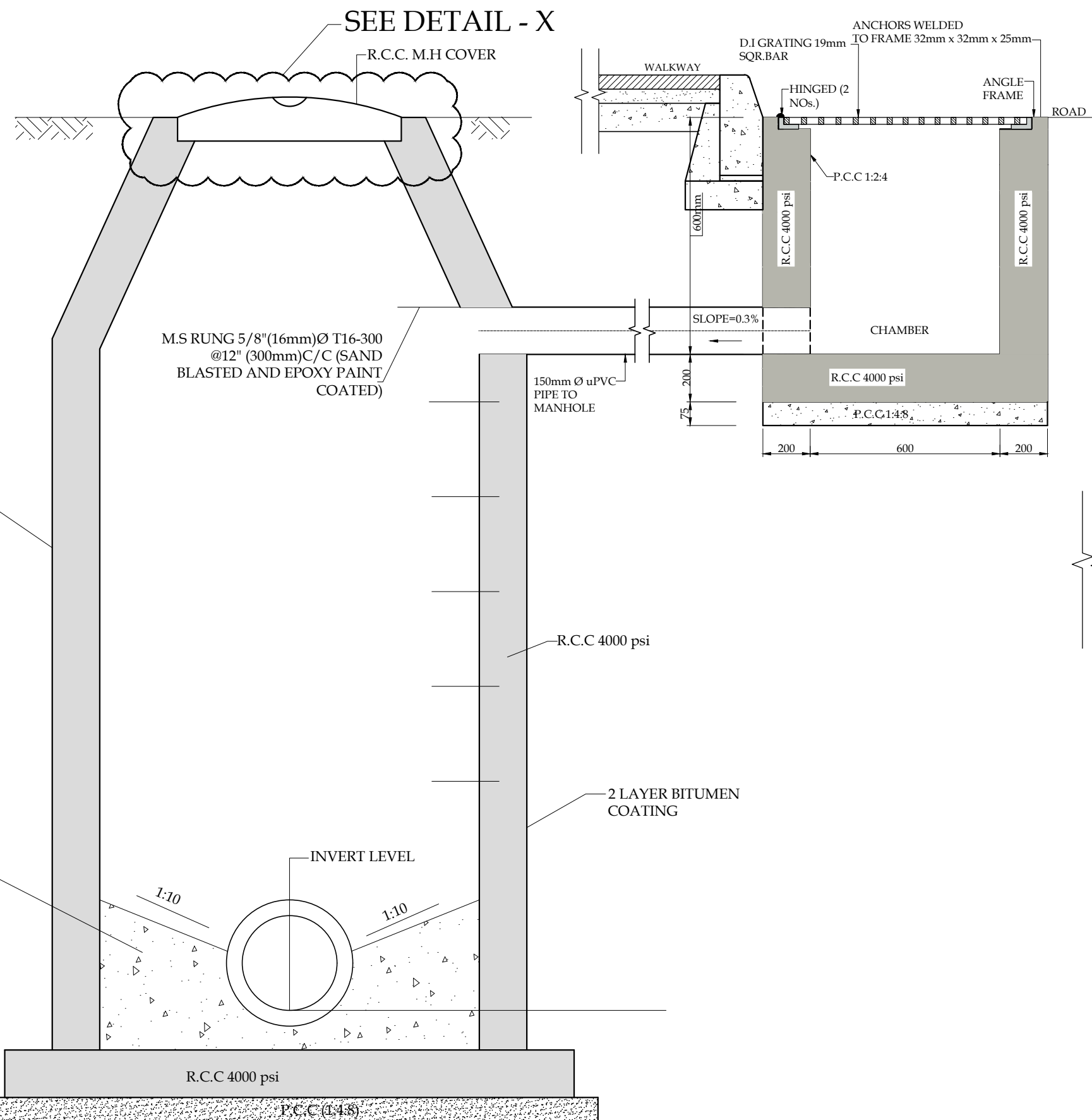


CHAMBER TO MANHOLE PLAN

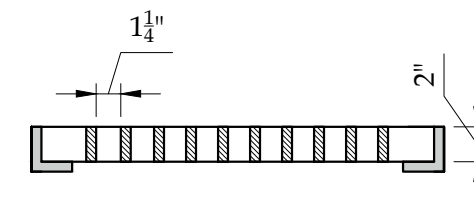


DUCTILE IRON GRATING PLAN

SCALE:- 1" = 1'-0"

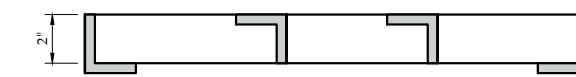


SECTION A-A



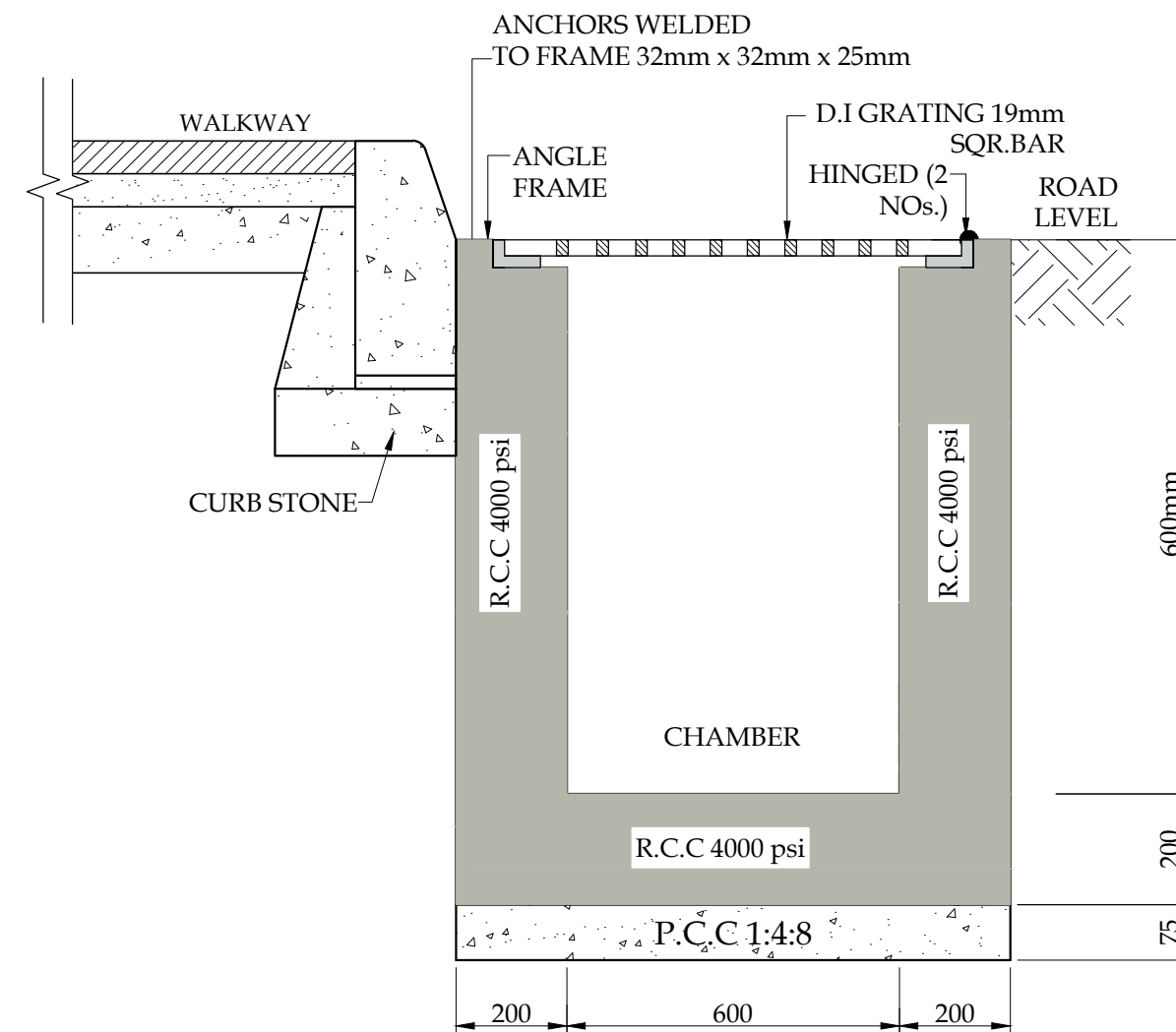
SECTION X-X

SCALE:- 1" = 1'-0"



SECTION Y-Y

SCALE:- 1" = 1'-0"



SECTION B-B

PROJECT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE:
CHAMBER TO MANHOLE DETAILS

ORIGINAL :		DATE :		SCALE :	
A2		JULY, 2021		---	
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED	
28-05-2025	TENDER DRAWINGS	ASAD	ENGR TAHA	ENGR HASEEB	

DRAWING N°:
NFIP-SWD-TD-02

SHEET
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REV
00

CLIENT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI, PAKISTAN.
PHONE: 021-3568-5041-9

CONSULTANT:
ASIAN CONSULTING ENGINEERS PVT.(LTD)
C-3 JHELLUM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN
TELEPHONE: +92 42 35450914-5 +92 32-142-71101
FAX: +92 42 35450916 WEB: www.asiancon.com

WATER SUPPLY SYSTEM

LIST OF DRAWINGS
WATER SUPPLY SYSTEM

Page. Nr.	Description	Drg.Nr.	Page. Nr.	Description	Drg.Nr.
	LAYOUT PLANS		17	Piping & Reinforcement Details - IV	NFIP-WS-OHR-08
1	Key Plans	NFIP-WS-KP-7000	18	Lightening Arrestor Details	NFIP-WS-OHR-09
2	Water Supply System Layout Plan	NFIP-WS-LP-7001		TUBE WELL	
3	Water Supply System Layout Plan	NFIP-WS-LP-7002		Tube Well General Notes	NFIP-WS-TW-01
4	Water Supply System Layout Plan	NFIP-WS-LP-7003		Plan & Elevation	NFIP-WS-TW-02
	TYPICAL DETAILS			Section & Tube Well Details	NFIP-WS-TW-03
5	Valve Details	NFIP-WS-TD-01		Tube Well Doors, Window, Excavation, Roof Drainage & Reinforcement Detail	NFIP-WS-TW-04
6	Fire Hydrant & Chamber Cover	NFIP-WS-TD-02		Foundation Details	NFIP-WS-TW-05
7	Service Connection	NFIP-WS-TD-03		Electrification Plan	NFIP-WS-TW-06
8	Thrust Block - Horizontal	NFIP-WS-TD-04		WATE R SUPPLY PIPE SLEEVES	
9	Trench & Bedding Details	NFIP-WS-TD-05		Key Plans	NFIP-WS-PS-KP-00
	OVERHEAD RESERVOIR 100,000 Gallons			Layout Plan-01	NFIP-WS-PS-LP-01
10	General Notes - I	NFIP-WS-OHR-GN-01		Layout Plan-02	NFIP-WS-PS-LP-02
11	General Notes - II	NFIP-WS-OHR-GN-02		Layout Plan-03	NFIP-WS-PS-LP-03
12	General Notes - III	NFIP-WS-OHR-GN-03			
13	Plan Sectional & Elevation	NFIP-WS-OHR-04			
14	Misc. Details	NFIP-WS-OHR-05			
15	Piping & Reinforcement Details - I	NFIP-WS-OHR-06			
16	Piping & Reinforcement Details - II & III	NFIP-WS-OHR-07			

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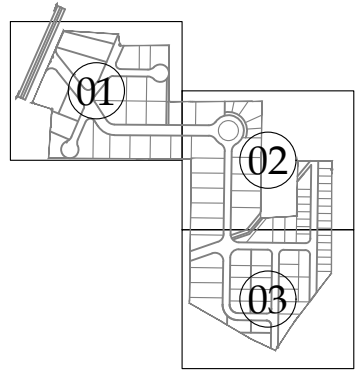
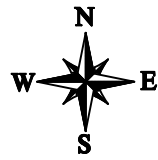
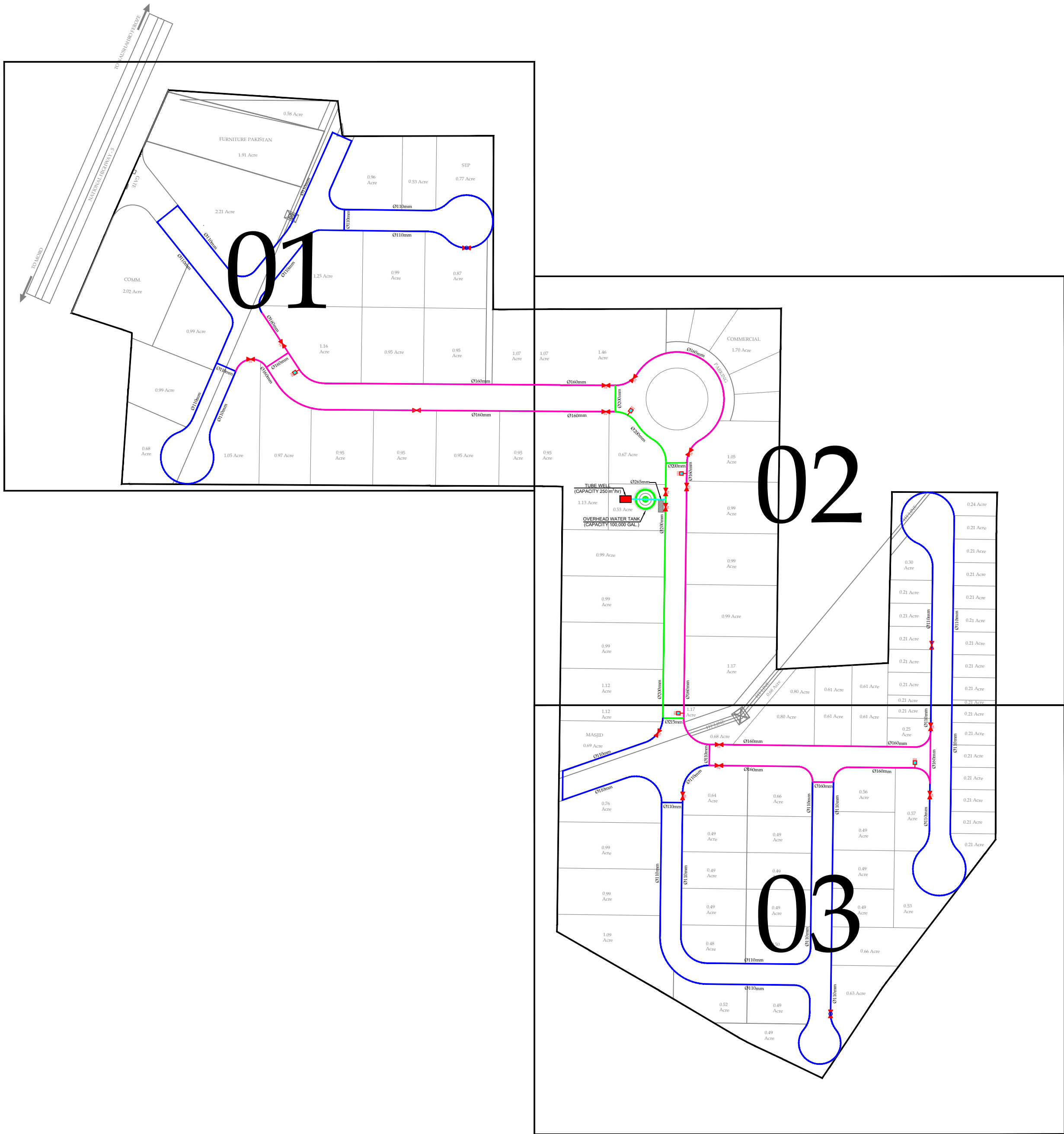
DRAWING TITLE:

LIST OF DRAWINGS

ORIGINAL: A2		DATE: JULY, 2021		SCALE:	
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED	
22-12-2021	TENDER DRAWINGS	USMAN	ENGR. HASEEB	ENGR. ARSLAN	
DRAWING N°:			SHEET		REV
NFIP-WS-LOD					00

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Fax: +92 42 35450916 WEB: www.asiancon.com



KEY PLAN

NOTES:

1. ALL WATER MAIN SHOULD HAVE A MINIMUM CLEAR COVER OF 3'(900mm) AS FAR AS POSSIBLE, ON THE RESERVE RIGHT OF WAY.
2. WATER MAIN SHALL BE LAID ON A SMOOTH GRADIENT AVOIDING CREST AND TROUGH.
3. THRUST BLOCK SHALL BE PROVIDED AT ALL TEES, BENDS AND REDUCERS. FOR DETAILS REFER DWG. # NFIP-WS-TD-04.
4. IN CASE OF ROAD CROSSING, R.C.C. PIPE SLEEVE SHALL BE PROVIDED AS PER TRENCH DETAIL DRAWING. REFER DWG. #NFIP-WS-TD-05
5. INDUSTRIAL CONNECTION SHALL BE RESPONSIBILITY OF INDUSTRY OWNER PROVIDED.
6. ALL WATER SUPPLY PIPES SHALL BE OF HDPE PN-10.
7. JOINT SHALL BE MADE BY BUTT FUSION.
8. PIPE SHALL BE LAID AS INDICATED ON THE LAYOUT PLAN.
9. FOR STANDARD DETAILS. GV,AV, SEE REFER DWGS # NFIP-WS-TD-01.

LEGEND

- PROPOSED 110mm Ø HDPE PIPE
- PROPOSED 160mm Ø HDPE PIPE
- PROPOSED 200mm Ø HDPE PIPE
- PROPOSED 265mm Ø HDPE PIPE
- SLUICE VALVE
- AIR RELEASE VALVE
- WASHOUT VALVE
- FIRE HYDRANT

PROJECT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
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ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE:

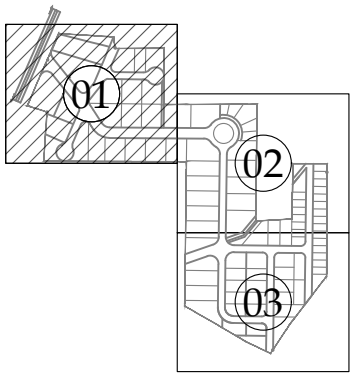
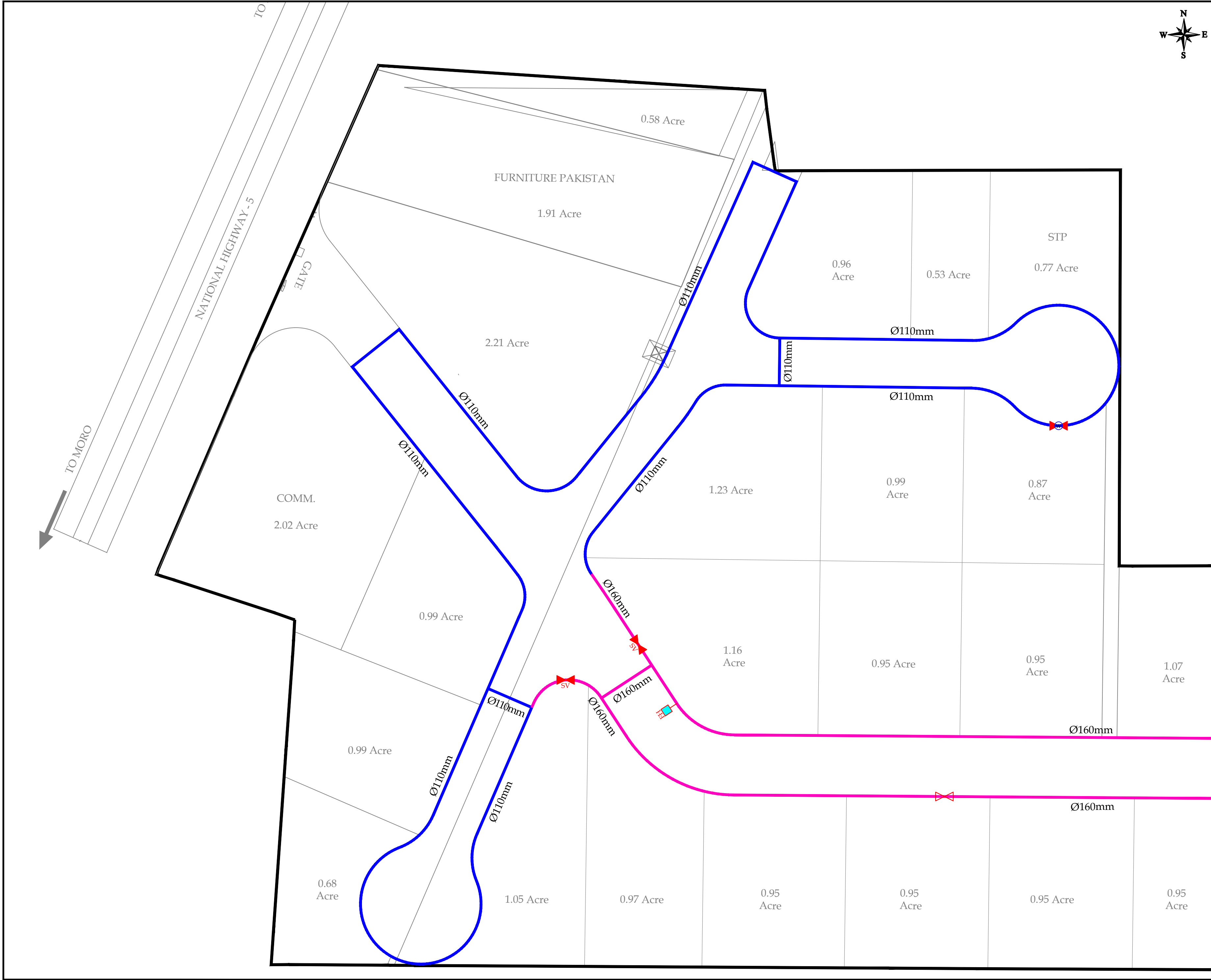
WATER SUPPLY SYSTEM
KEY PLAN

ORIGINAL:		DATE:		SCALE:	
A2		JULY, 2021			
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED	
22-12-2021	TENDER DRAWINGS	USMAN	ENGR HASSEEB	ENGR ARSLAN	

DRAWING N°:		SHEET	REV
NFIP-WS-KP-7000		01 OF 01	00

CLIENT:
 PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI,
PAKISTAN
PHONE: 021-3558-5041-9

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Fax: +92 42 35450916 WEB: www.asiancon.com



KEY PLAN

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9. FOR STANDARD DETAILS. GV,AV, SEE REFER DWGS # NFIP-WS-TD-01.

LEGEND

- PROPOSED 110mm Ø HDPE PIPE
- PROPOSED 160mm Ø HDPE PIPE
- PROPOSED 200mm Ø HDPE PIPE
- PROPOSED 265mm Ø HDPE PIPE
- SLUICE VALVE
- AIR RELEASE VALVE
- WASHOUT VALVE
- FIRE HYDRANT

PROJECT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE:

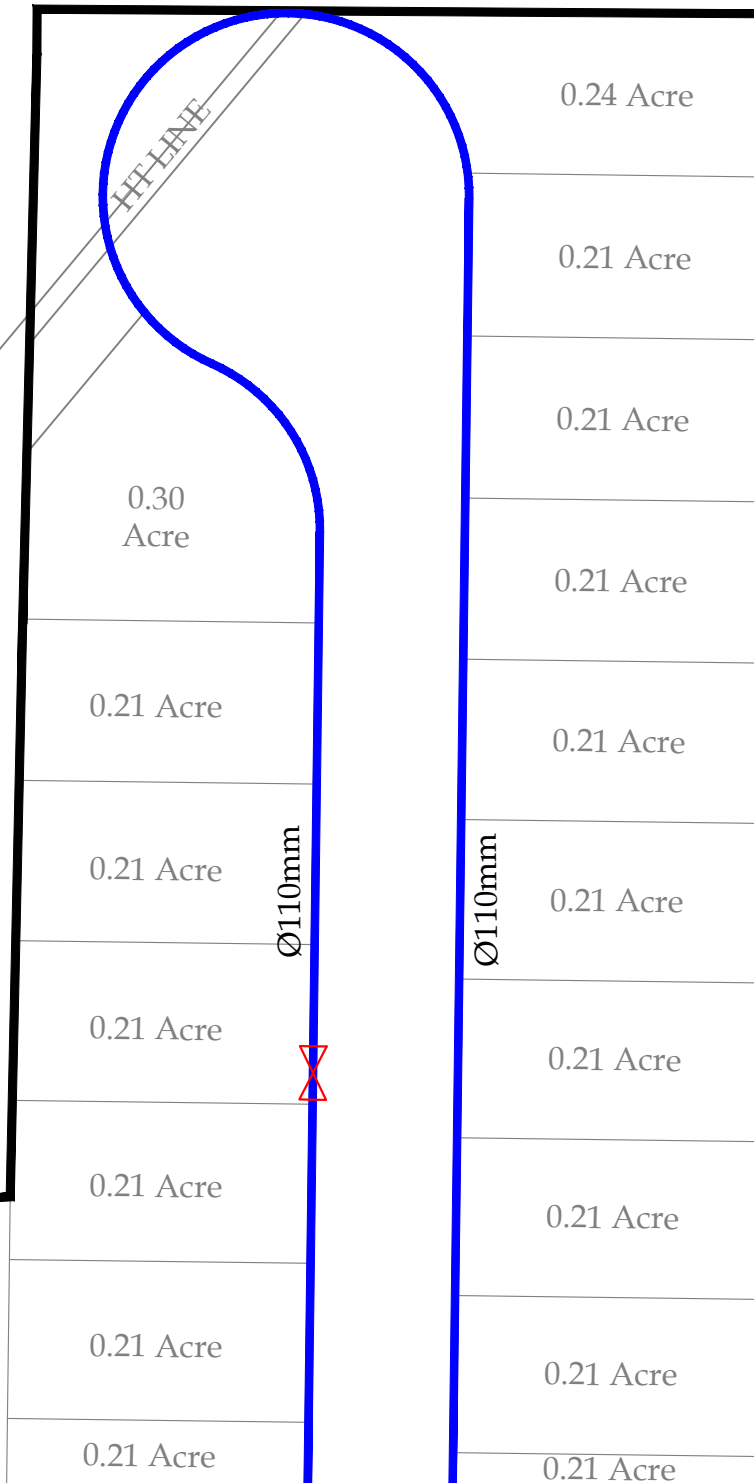
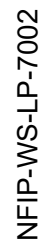
WATER SUPPLY SYSTEM
LAYOUT PLAN-01

ORIGINAL:		DATE:		SCALE:	
A2		JULY, 2021			
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED	
22-12-2021	TENDER DRAWINGS	USMAN	ENGR. HASEEB	ENGR. ARSLAN	

DRAWING N°:		SHEET	REV
NFIP-WS-LP-7001		01 OF 03	00

CLIENT:
 PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI,
PAKISTAN
PHONE: 021-3558-5041-9

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- ## LEGEND

SLUICE VALVE	
AIR RELEASE VALVE	
WASHOUT VALVE	
FIRE HYDRANT	

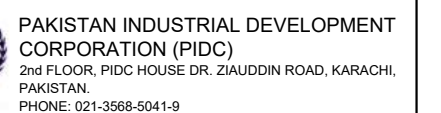
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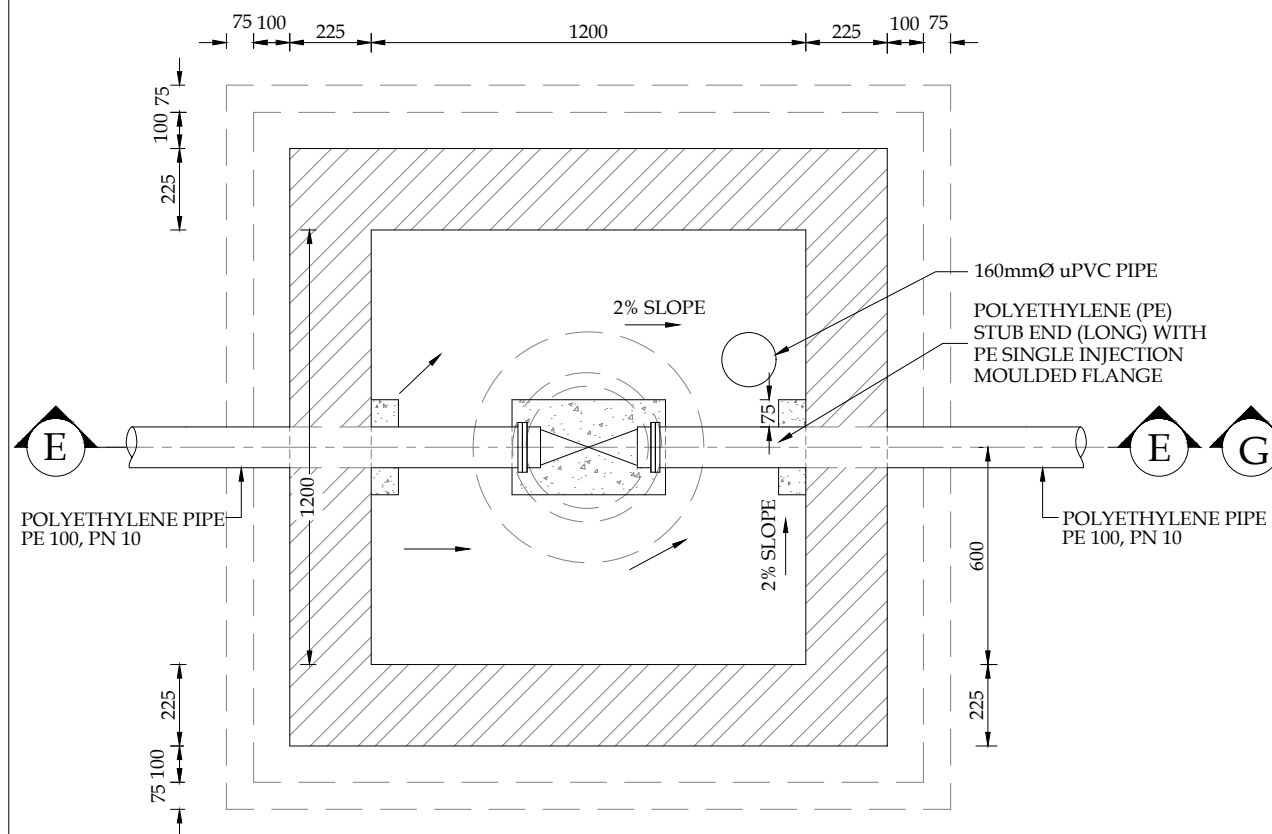
SHEET	REV
02 OF 03	00

CLIENT:

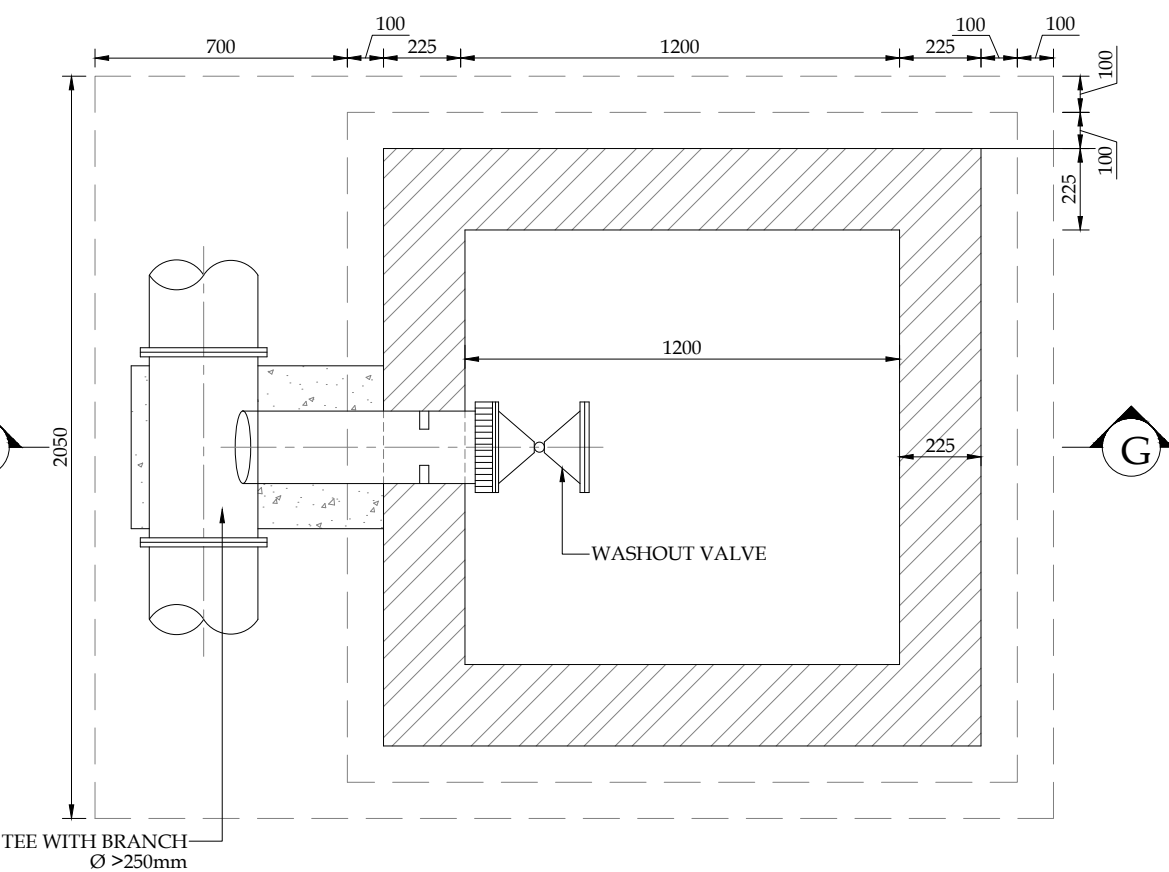


CONSULTANT:

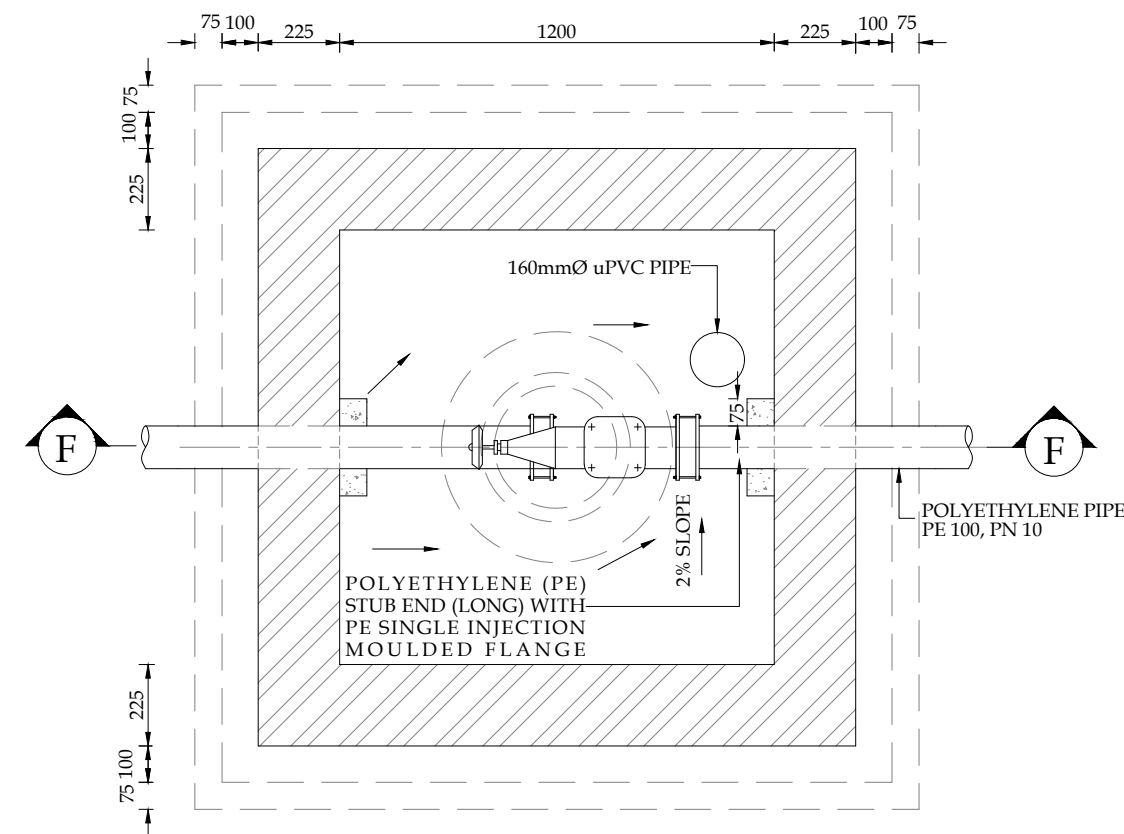




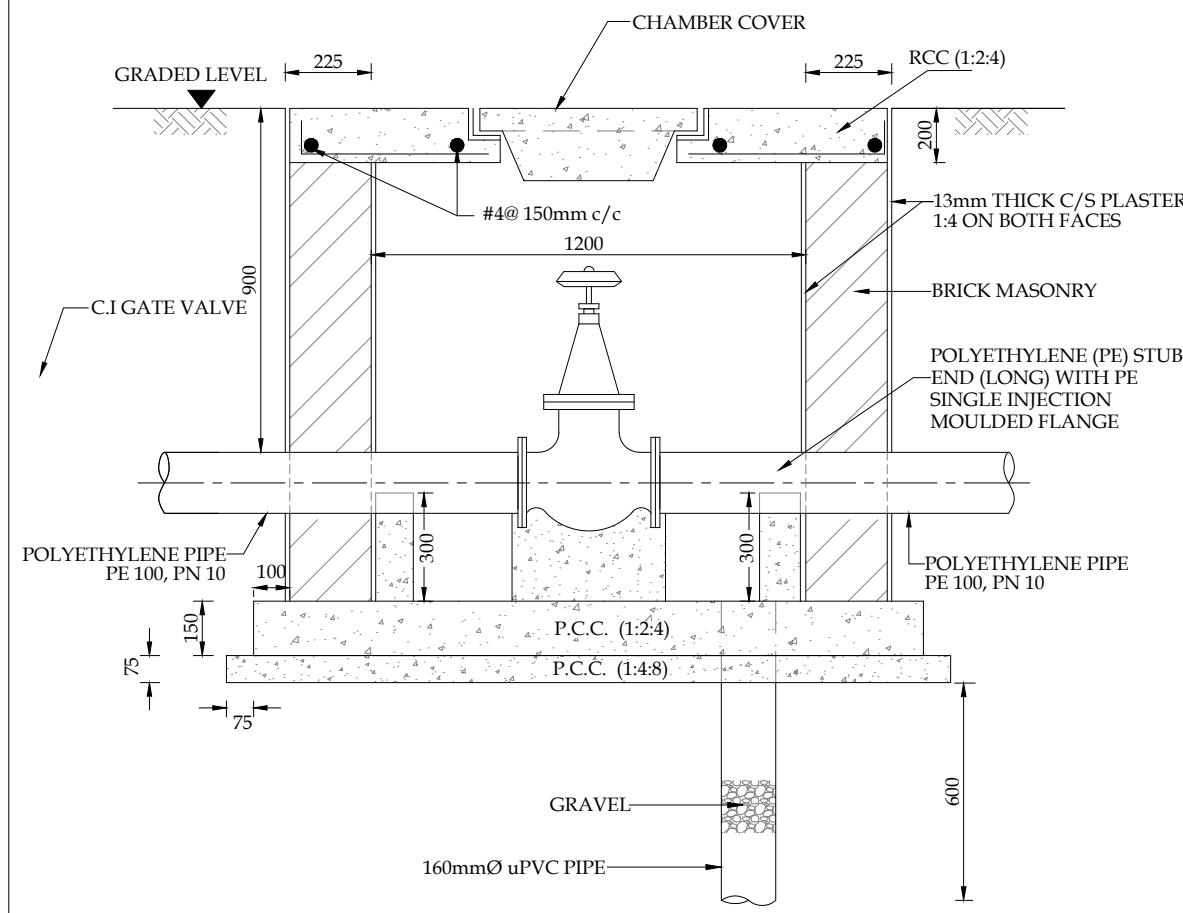
SECTIONAL PLAN
GATE VALVE



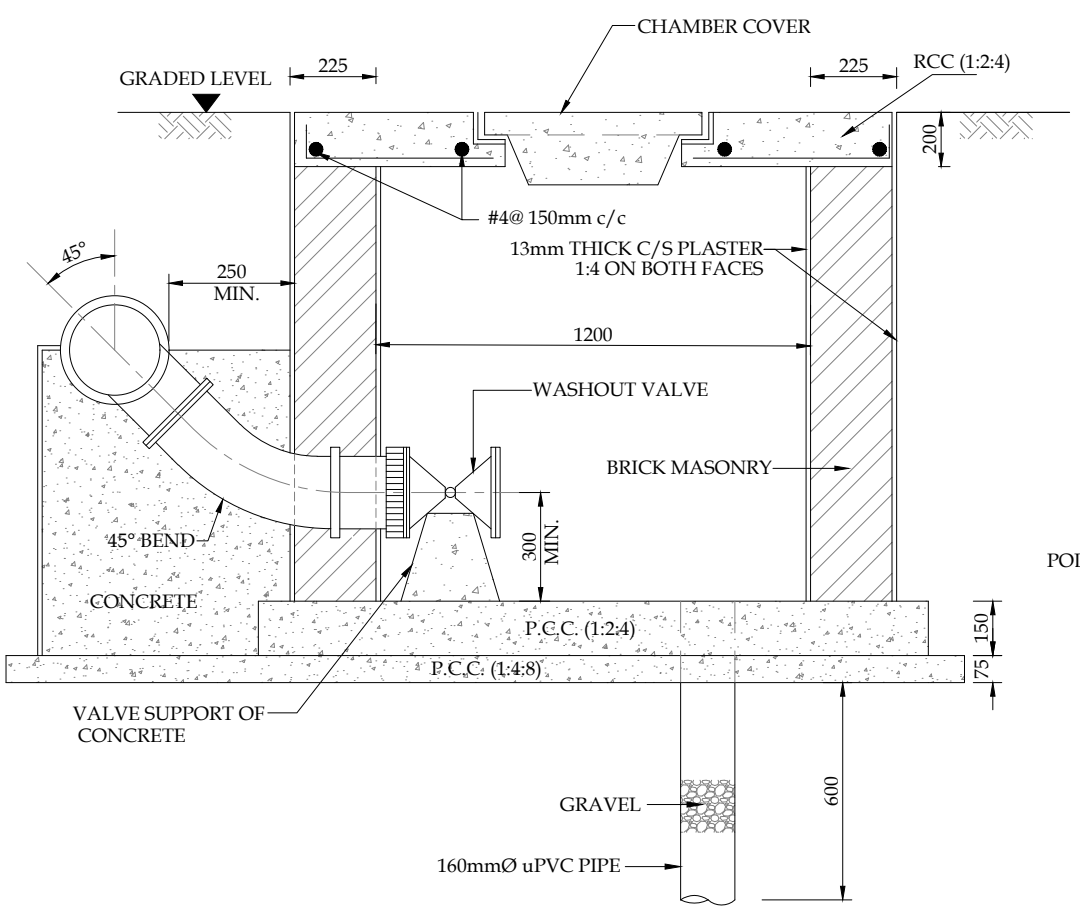
SECTIONAL PLAN
WASHOUT VALVE



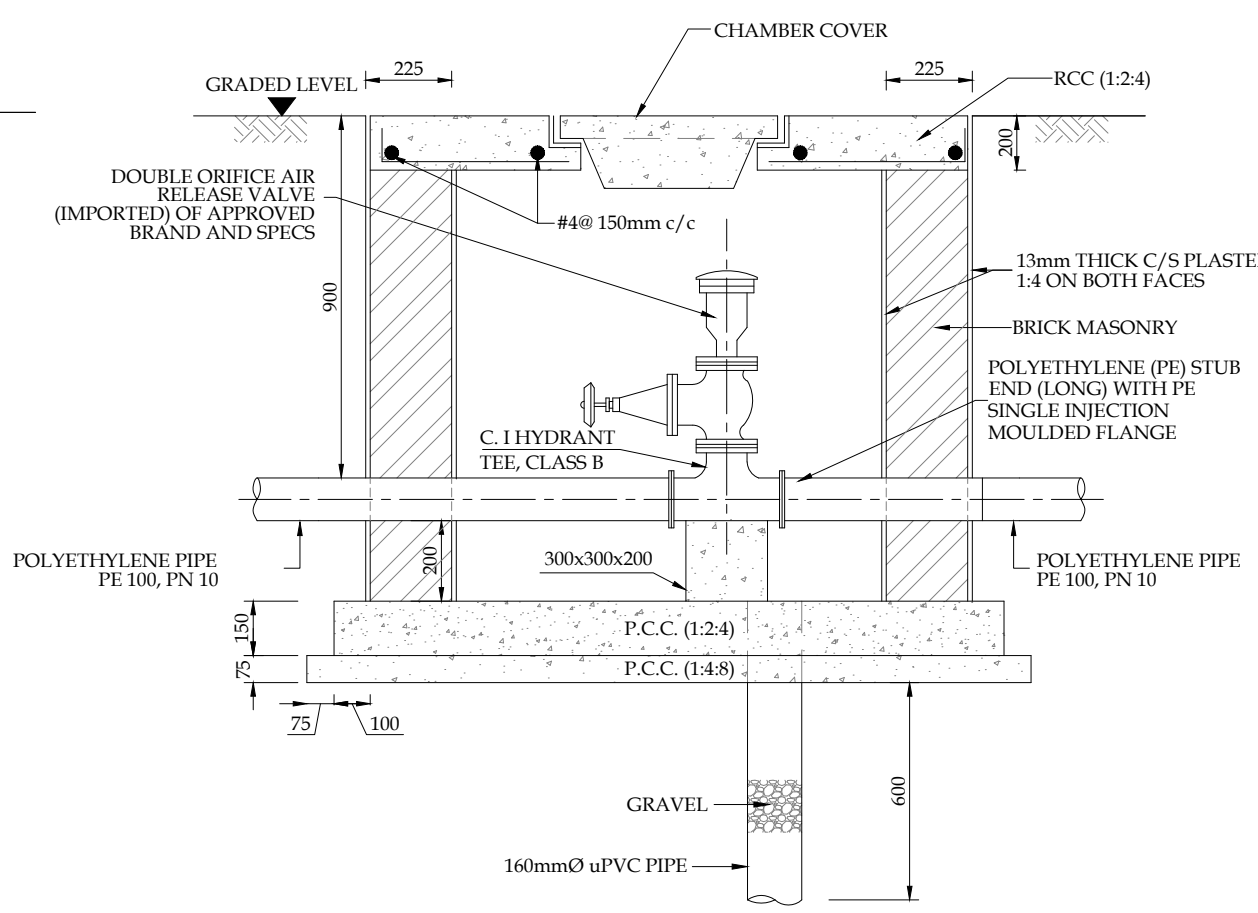
SECTIONAL PLAN
AIR RELEASE VALVE



SECTION E-E



SECTION G-G



SECTION F-F

PROJECT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
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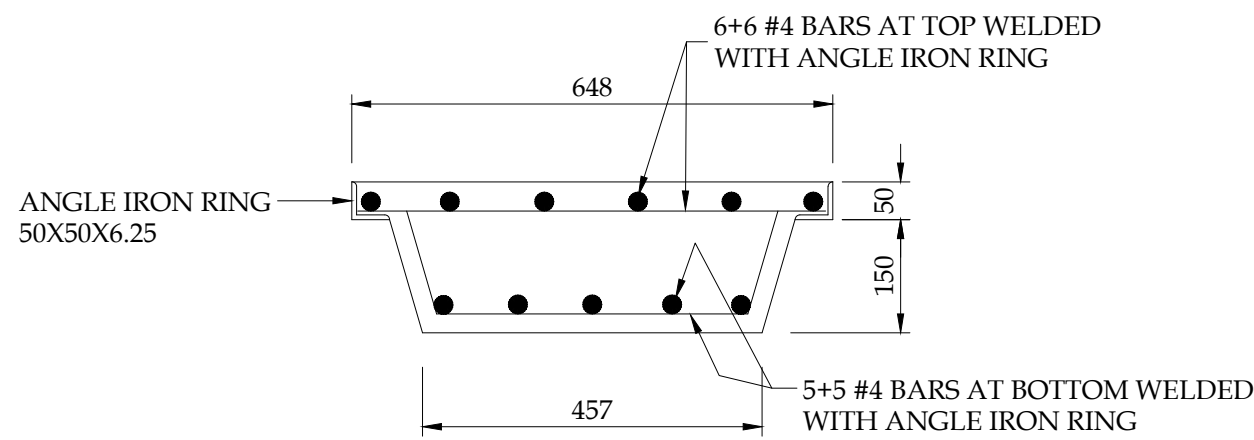
DRAWING TITLE:
**WATER SUPPLY SYSTEM
TYPICAL DETAILS
VALVE DETAILS**

ORIGINAL :		DATE :		SCALE :	
A2		JULY, 2021		---	
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED	
22-12-2021	TENDER DRAWINGS	USMAN	ENGR. HASEEB	ENGR. ARSLAN	

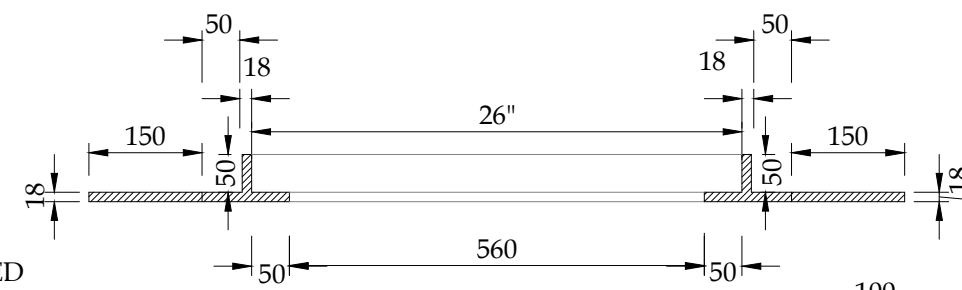
DRAWING N°:
NFIP-WS-TD-01

CLIENT:
**PAKISTAN INDUSTRIAL DEVELOPMENT
CORPORATION (PIDC)**
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI,
PAKISTAN.
PHONE: 021-3568-5041-9

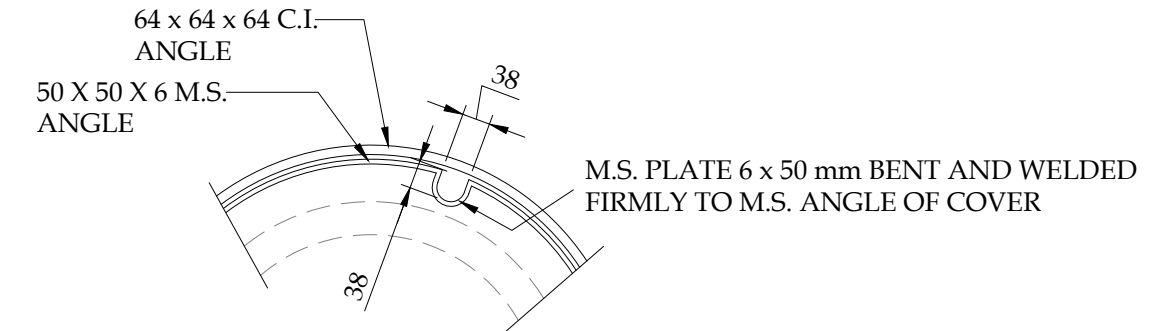
CONSULTANT:
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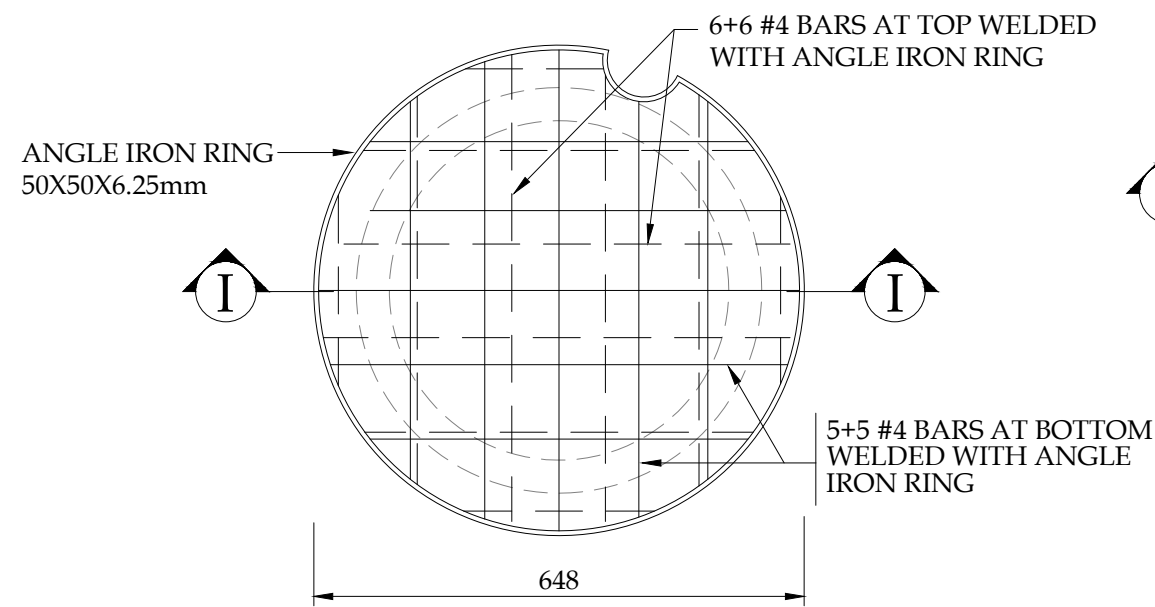
SECTION AT I-I



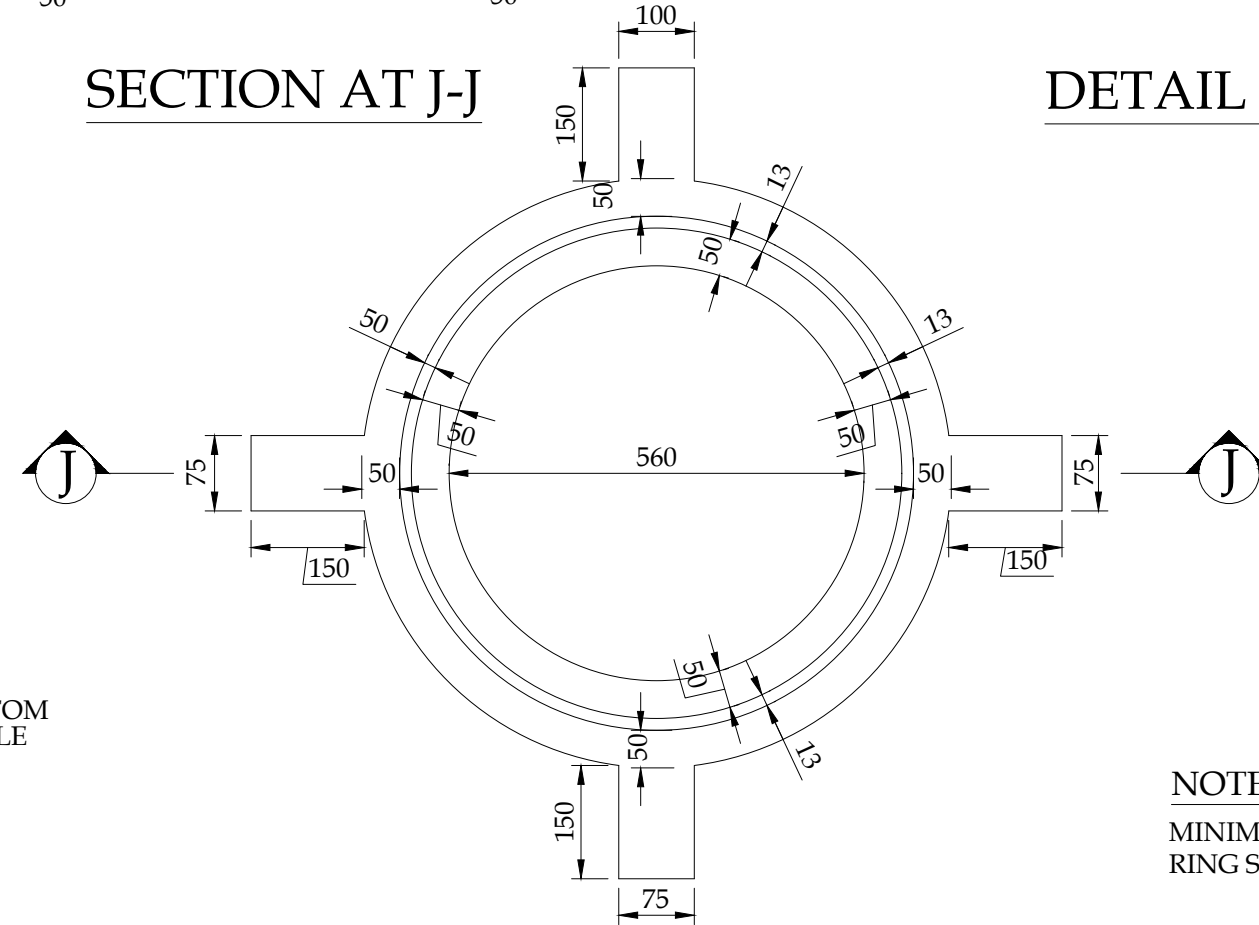
SECTION AT J-J



DETAIL X

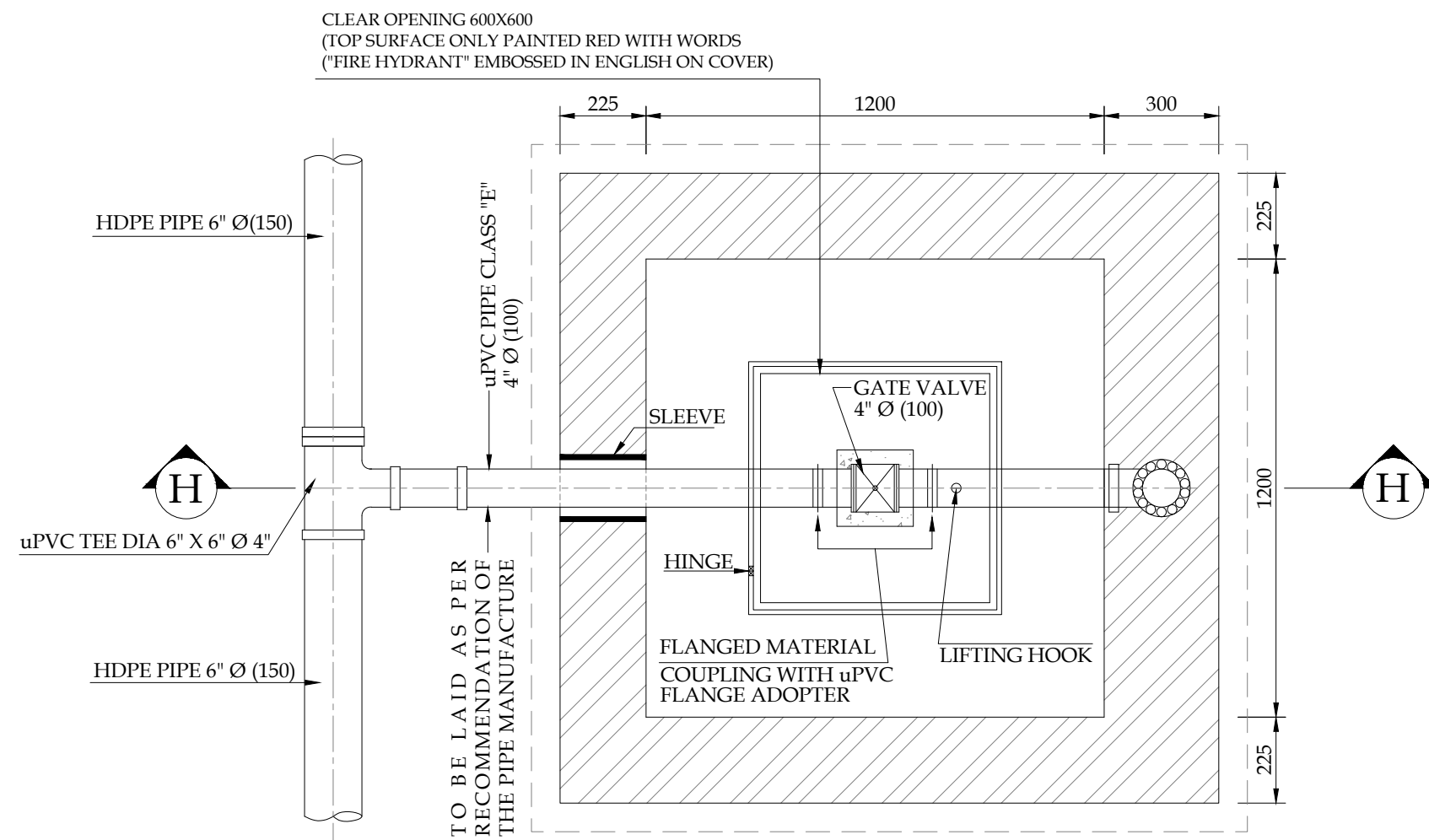


CHAMBER COVER

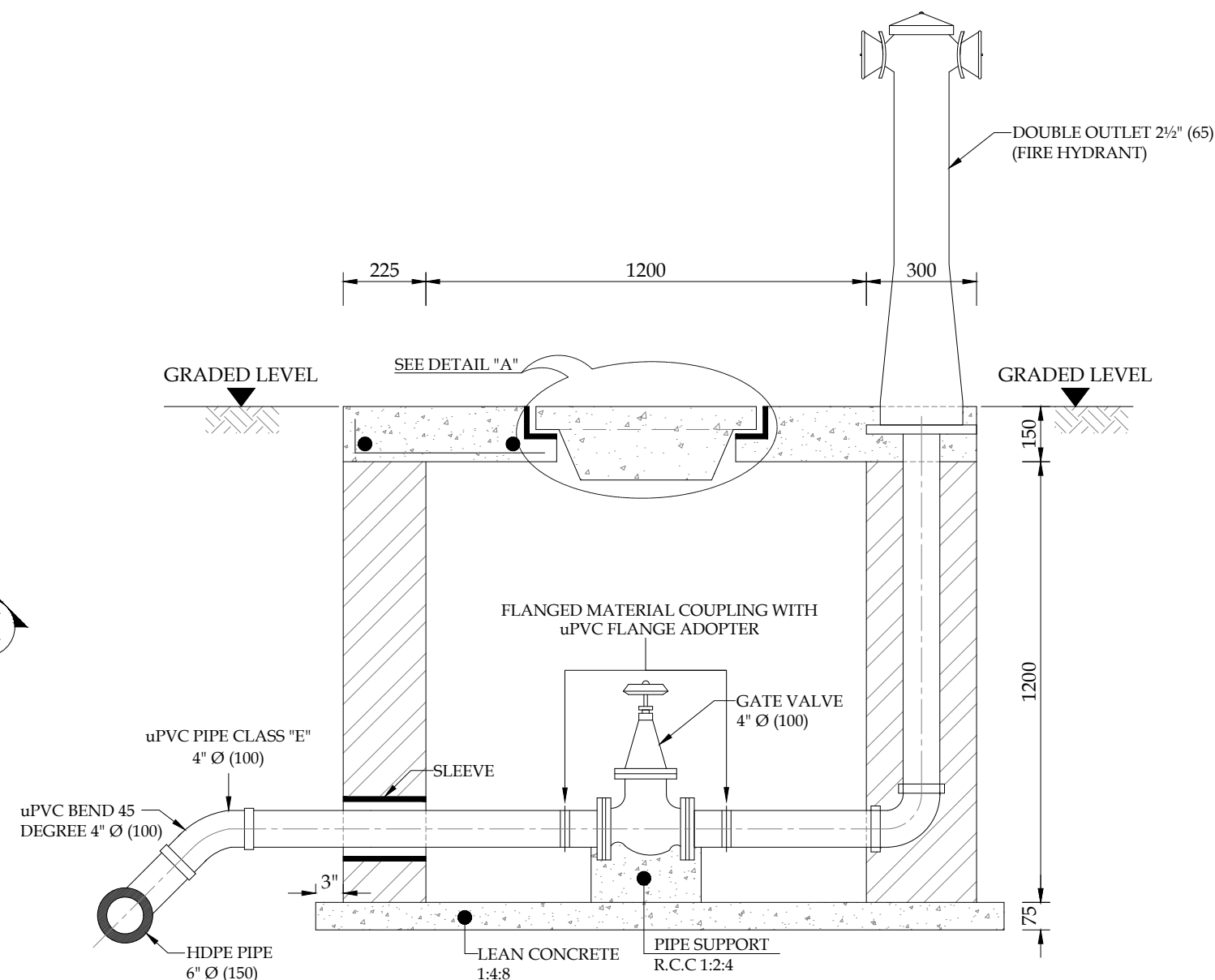


C.I FRAME

NOTE
MINIMUM WEIGHT OF FRAME
RING SHALL BE 37.324 kg



SECTIONAL PLAN
FIRE HYDRANT



SECTION F-F

PROJECT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
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DRAWING TITLE:
WATER SUPPLY SYSTEM
TYPICAL DETAILS
FIRE HYDRANT & CHAMBER COVER

ORIGINAL:		DATE:		SCALE:	
A2		JULY, 2021		---	
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED	
22-12-2021	TENDER DRAWINGS	USMAN	ENGR. HASEEB	ENGR. ARSLAN	

DRAWING N°:
NFIP-WS-TD-02

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