NOIDA METRO RAIL CORPORATION LTD.

BLOCK-III, 3rd Floor, Ganga Shopping Complex, Sector-29, Noida-201301

CONTRACT No.NGNC-01 ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA- GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

CONTRACT No.NGNC-01
E TENDER NO.- NMRC/CIVIL/NGNC/149/2021
TENDER DRAWINGS
VOL - V

MAY -2021

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

VIADUCT

LIST OF DRAWINGS OF CONTRACT No.NGNDD-01 GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2			
SL.	**DRAWING TITLE**	**DRAWING NO.**	**SHEET**
1	GENERAL ALIGNMENT DRAWING OF PLAN AND PROFILE	NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001	1 OF 22 TO 22 OF 22
2	GENERAL ARRANGEMENT DRAWINGS	NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001	1 OF 32 TO 32 OF 32
3	TYPICAL PIER CAP CROSS SECTION AND U GIRDER	NGNDD-01-LKT-NMRC-ST-03-CP-ST-3001	1 OF 1
4	TYPICAL SPAN PLAN AND ELEVATION OF SUPER STR	NGNDD-01-LKT-NMRC-ST-03-CP-ST-3002	1 OF 1
5	TYPICAL PIER CAP CROSS SECTION AND U GIRDER SECTION	NGNDD-01-LKT-NMRC-ST-03-CP-ST-3003	1 OF 1
6	STRAIGHT SPAN PRESTRESSING LAYOUT PLAN	NGNDD-01-LKT-NMRC-ST-03-CP-ST-3004	1 OF 1
7	TYPICAL DETAIL OF CAST IN SITU PORTAL BEAM AND PIER	NGNDD-01-LKT-NMRC-ST-03-CP-ST-3005	1 OF 1
8	TYPICAL DETAIL OF PRECAST PORTAL BEAM AND PIER	NGNDD-01-LKT-NMRC-ST-03-CP-ST-3006	1 OF 1
9	TYPICAL DETAIL OF CANTILEVER PIER	NGNDD-01-LKT-NMRC-ST-03-CP-ST-3007	1 OF 1
10	DETAIL OF PILE AND PILE CAP	NGNDD-01-LKT-NMRC-ST-03-CP-ST-3008	1 OF 1
11	SPACIAL SPAN OF 54.0M SUPER STR	NGNDD-01-LKT-NMRC-ST-03-CP-ST-3009	1 OF 2
12	SPACIAL SPAN OF 54.0M SUPER STR	NGNDD-01-LKT-NMRC-ST-03-CP-ST-3009	2 OF 2
13	EARTHING ARRANGEMENT	NGNDD-01-LKT-NMRC-ST-03-CP-ST-MISC-4001	1 OF 3
14	EARTHING ARRANGEMENT	NGNDD-01-LKT-NMRC-ST-03-CP-ST-MISC-4002	2 OF 3
15	EARTHING ARRANGEMENT	NGNDD-01-LKT-NMRC-ST-03-CP-ST-MISC-4003	3 OF 3
16	OHE MAST ANCHORES	NGNDD-01-LKT-NMRC-ST-03-CP-ST-MISC-4004	1 OF 1
17	DETAIL OF CABLE TRAY	NGNDD-01-LKT-NMRC-ST-03-CP-ST-MISC-4005	1 OF 1
18	DETAILS OF PROTECTIVE CRASH BARRIER AROUND COLUMNS	NGNDD-01-LKT-NMRC-ST-03-CP-ST-MISC-4006	1 OF 1
19	TYPICAL DRAWING OF BARRICADING 1M HT	NGNDD-01-LKT-NMRC-ST-03-CP-ST-MISC-4007	1 OF 2
20	TYPICAL DRAWING OF BARRICADING 2 M HT	NGNDD-01-LKT-NMRC-ST-03-CP-ST-MISC-4008	2 OF 2

PLAN AND PROFILE

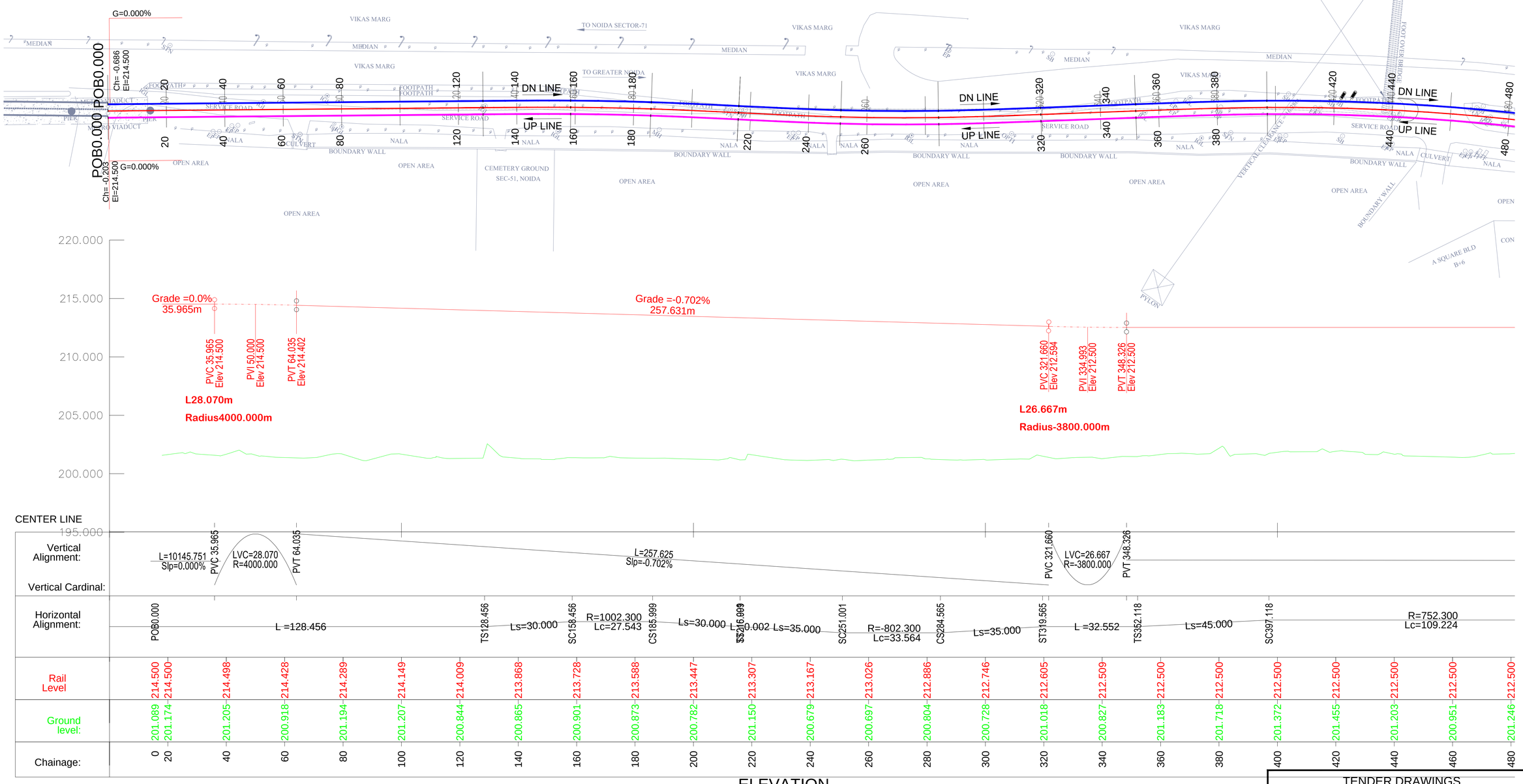
TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH



ELEVATION

TENDER DRAWINGS

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ALIGNMENT DRAWING FROM CH: 0+00 to 0+480

SCALE

DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001

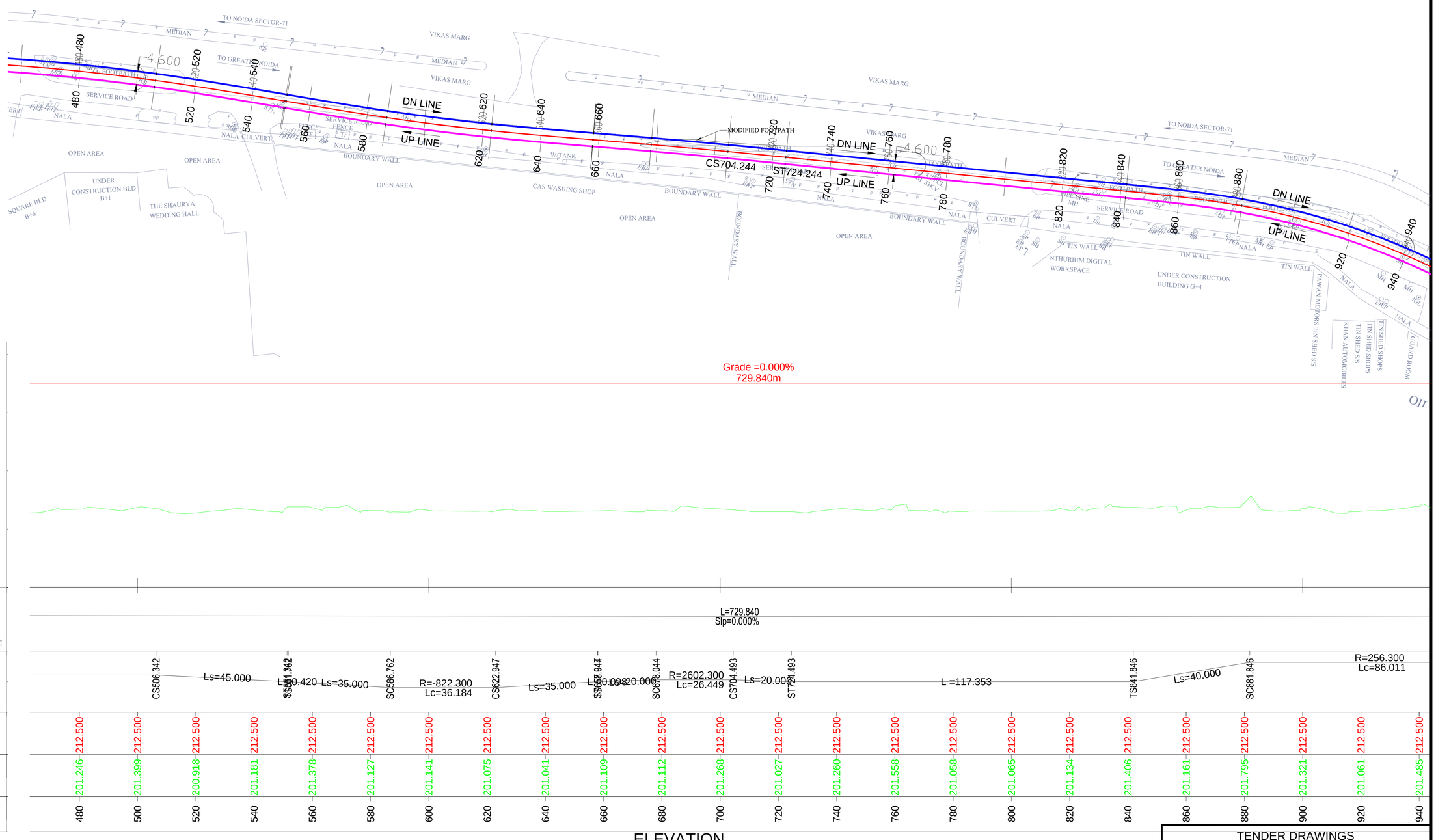
TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

- TRACK CENTRE

Ls	-	LENGTH OF SPIRAL
Lc	-	CIRCULAR CURVE LENGTH
VCL	-	VERTICAL CURVE LENGTH
R	-	RADIUS
G	-	GRADIENT
L	-	LENGTH



ELEVATION

TENDER DRAWINGS

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ALIGNMENT DRAWING FROM CH: 4+80 to 0+940

SCALE

DATE
MAY-21

REV.
R2

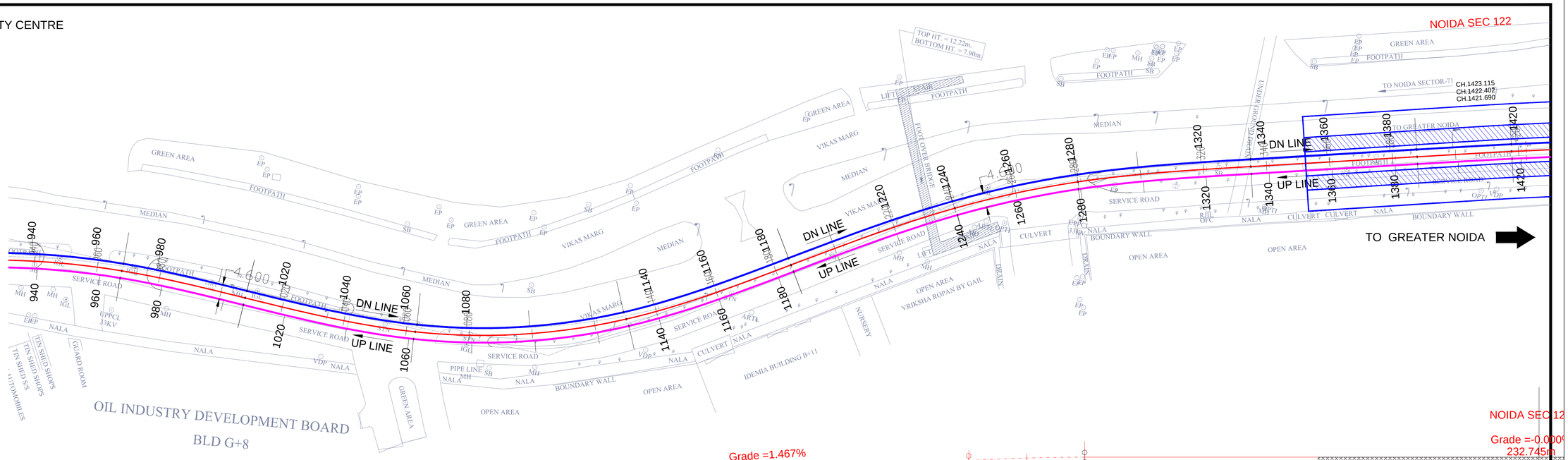
DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001

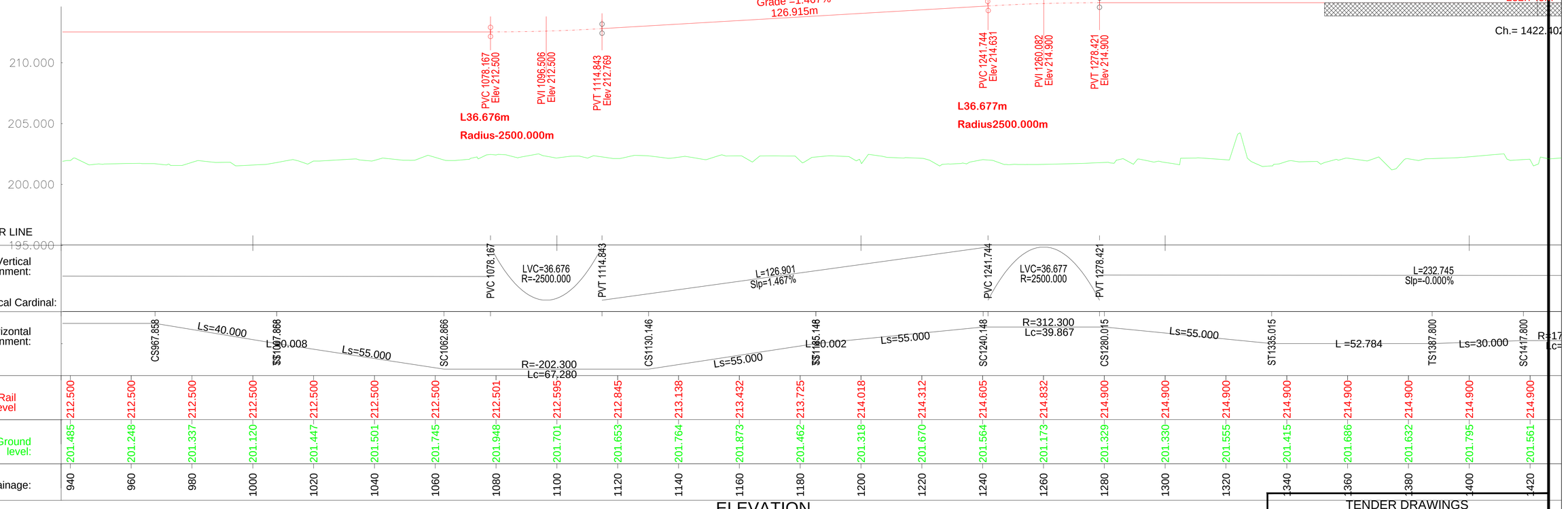
TO NOIDA CITY CENTRE

LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH





ELEVATION

TENDER DRAWINGS

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ALIGNMENT DRAWING FROM CH: 0+940 to 1+420

SCALE

DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001

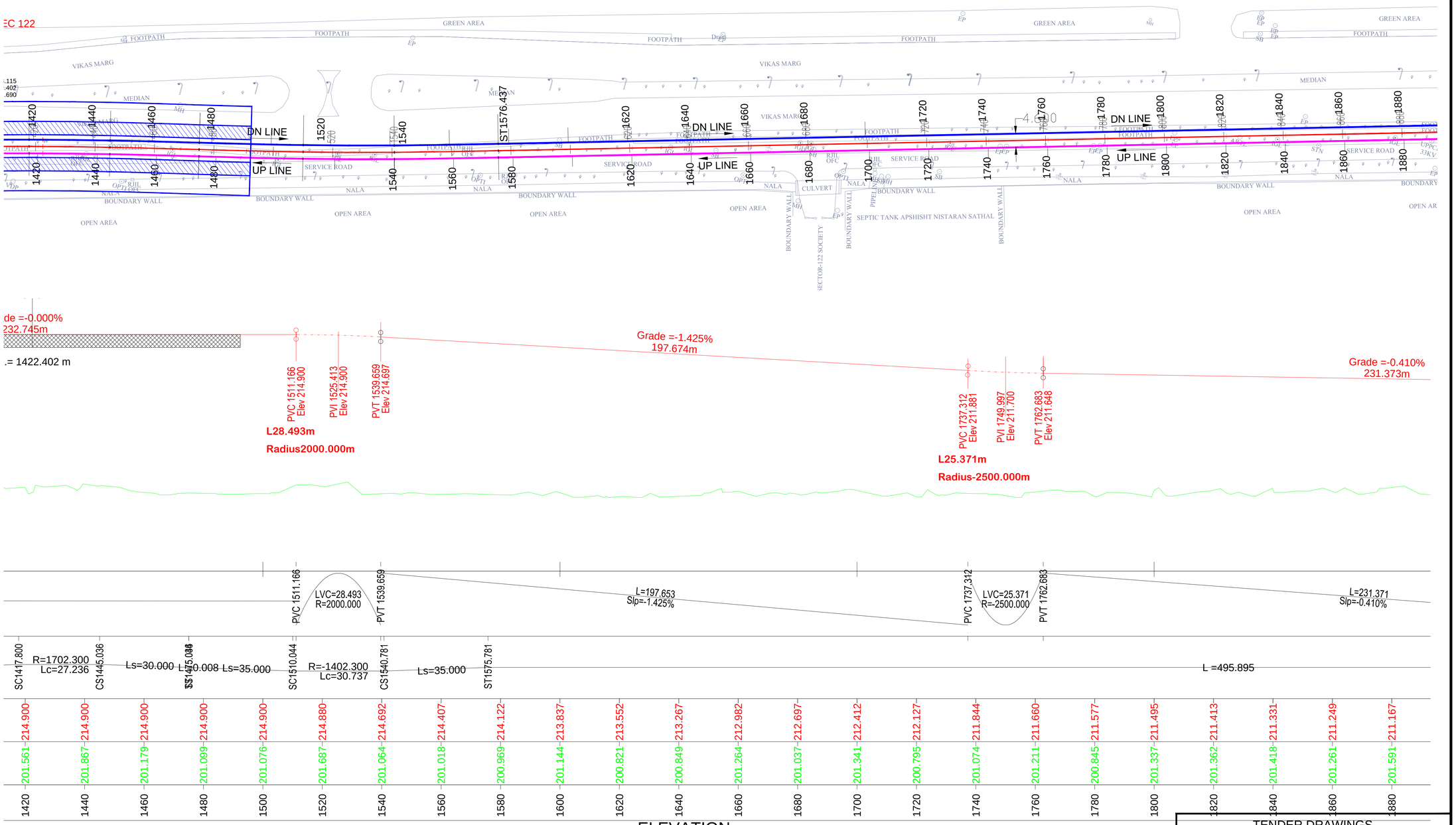
TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH



ELEVATION

1420	1440	1460	1480	1500	1520	1540	1560	1580	1600	1620	1640	1660	1680	1700	1720	1740	1760	1780	1800	1820	1840	1860	1880
Rail Level	214.900	214.900	214.900	214.900	214.900	214.880	214.692	214.407	214.122	213.837	213.552	213.267	212.982	212.697	212.412	212.127	211.844	211.660	211.577	211.495	211.413	211.331	211.249	211.167
Ground level:	201.561	201.867	201.179	201.099	201.076	201.687	201.064	201.018	200.969	201.144	200.821	200.849	201.264	201.037	201.341	200.795	201.074	201.211	200.845	201.337	201.362	201.418	201.261	201.591

TENDER DRAWINGS

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-45565814-18
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)	DGM (E&M)	DGM (S&T)
DGM (Design)	DGM (RS)	DGM (TEL/AFC)
GM (D&P)	SDGM (P&T)	
MGR (TRACK)	GM (RS&E)	SDGM (S&T)
DGM (CIVIL)		GM (S&T)
JGM (Civil)		
GM (Projects)		
CIVIL	E&M	S & T

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)	MGR-1 (E&M)	MGR (SIG.)
CA (Arch.)	MGR-2 (E&M)	MGR (TEL.)
MGR (CIVIL)	DGM (E&M)	DGM (TEL.)
DGM (CIVIL)	MGR (TRACK)	DGM (S&T)
PD (N-GN)	DGM (TRACK)	GM (S&T)

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ALIGNMENT DRAWING FROM CH: 1+420 to 1+880

SCALE

DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001

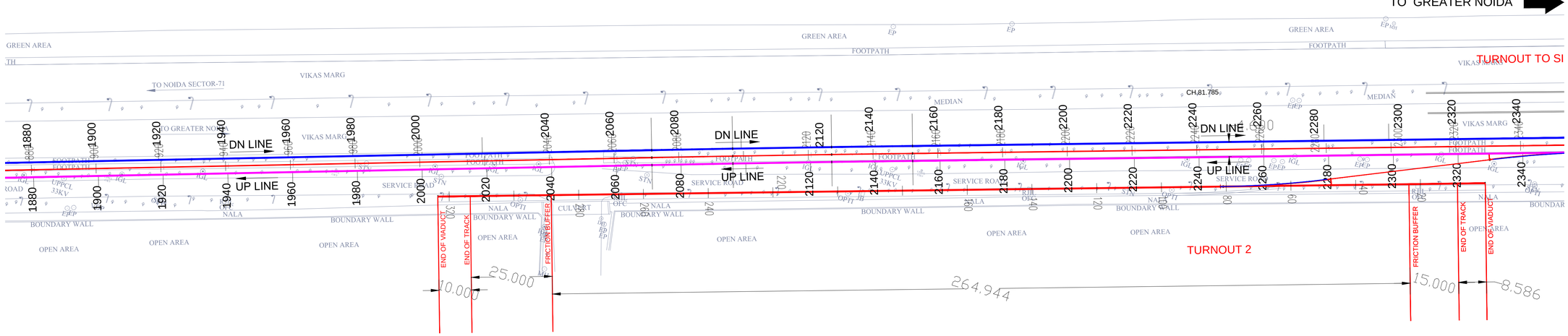
TO NOIDA CITY CENTRE

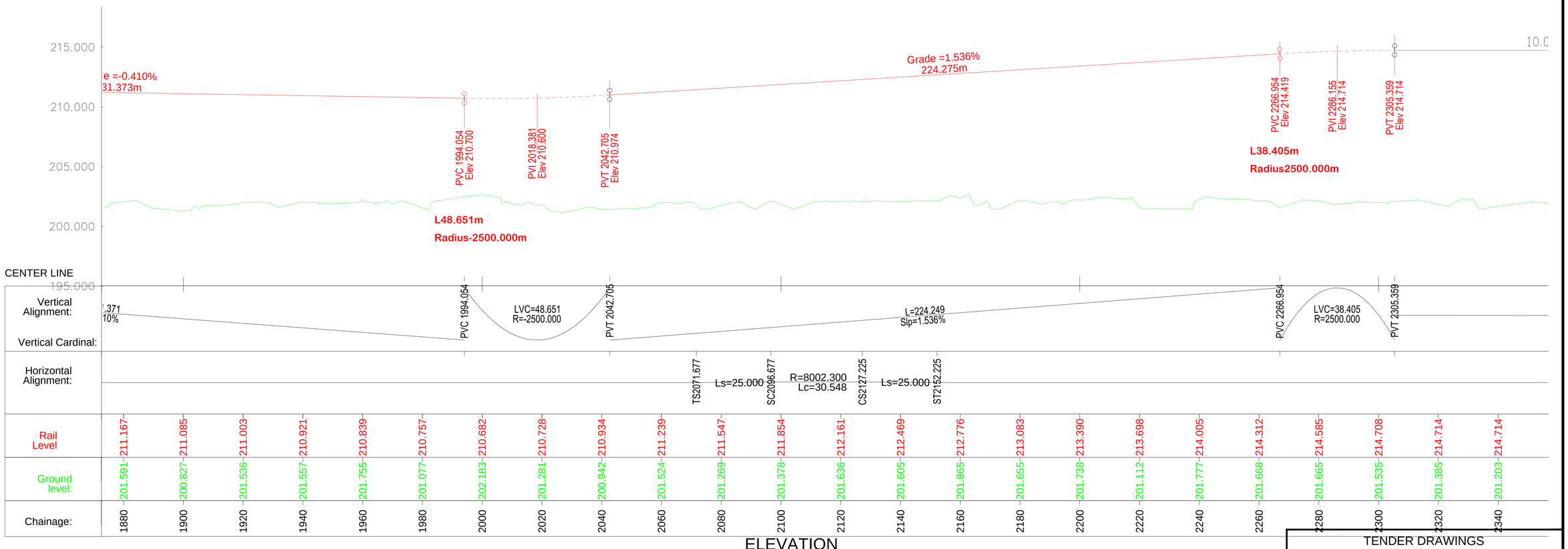
TO GREATER NOIDA

LEGEND

- TRACK CENTRE

Ls	-	LENGTH OF SPIRAL
Lc	-	CIRCULAR CURVE LENGTH
VCL	-	VERTICAL CURVE LENGTH
R	-	RADIUS
G	-	GRADIENT
L	-	LENGTH





ELEVATION

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

GENERAL ALIGNMENT DRAWING FROM CH: 1+880 to 2+340

SCALE

DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001

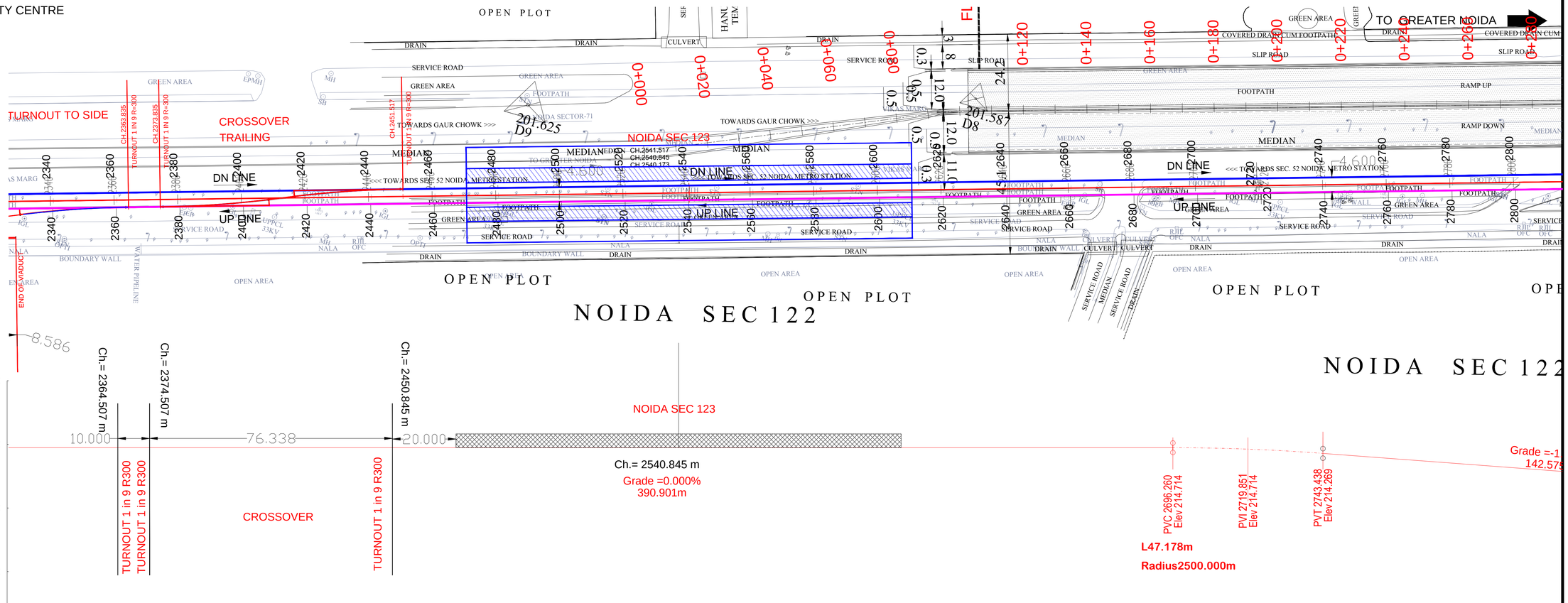
TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

- TRACK CENTRE

Ls	-	LENGTH OF SPIRAL
Lc	-	CIRCULAR CURVE LENGTH
VCL	-	VERTICAL CURVE LENGTH
R	-	RADIUS
G	-	GRADIENT
L	-	LENGTH



ELEVATION

TENDER DRAWINGS

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ALIGNMENT DRAWING FROM CH: 2+340 to 2+800

SCALE

DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001

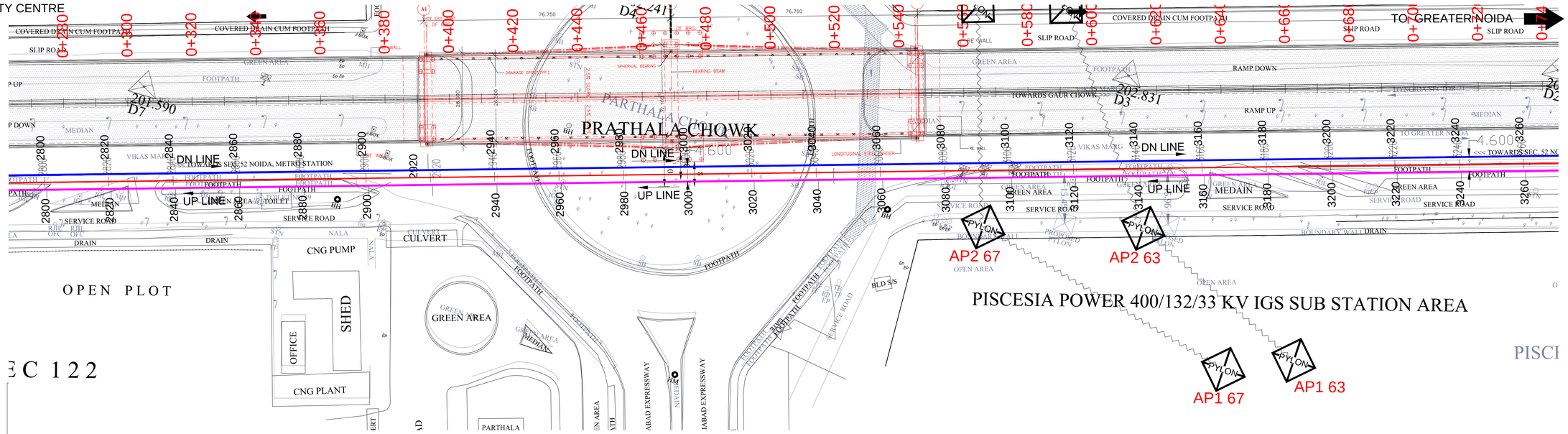
TO NOIDA CITY CENTRE

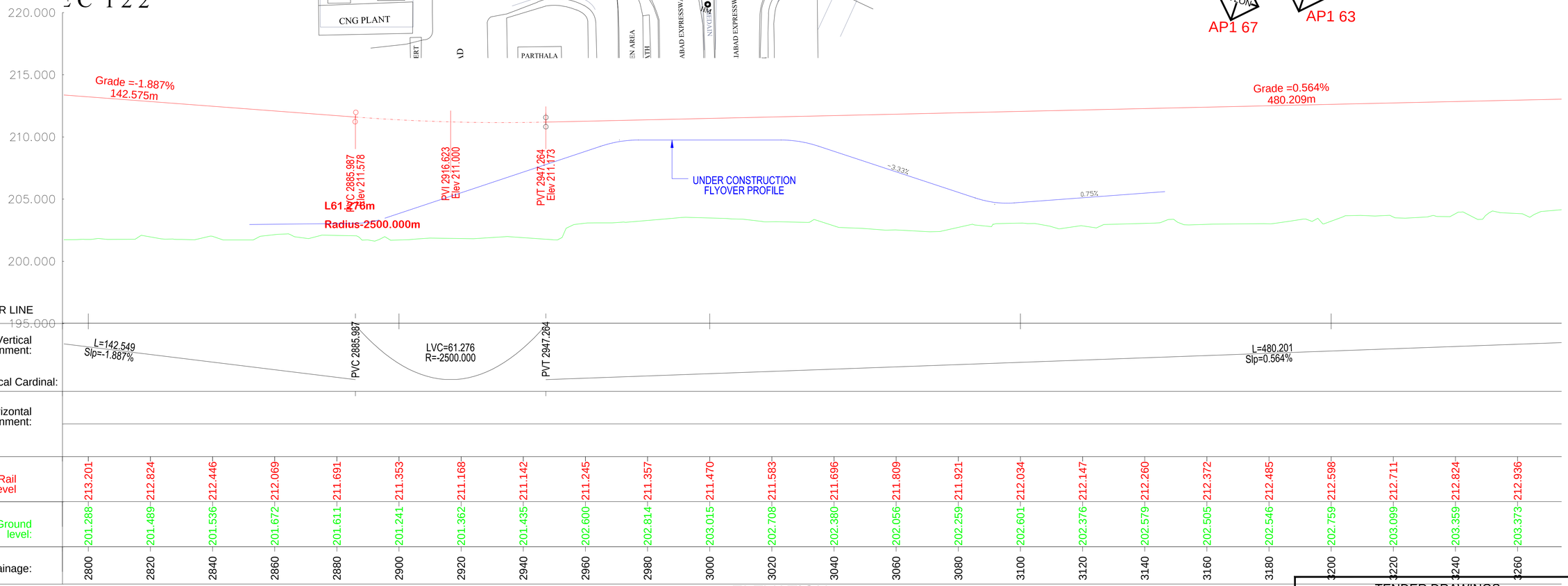
TO GREATER NOIDA

LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH





ELEVATION

TENDER DRAWINGS

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

NOIDA METRO RAIL CORPORATION LTD.

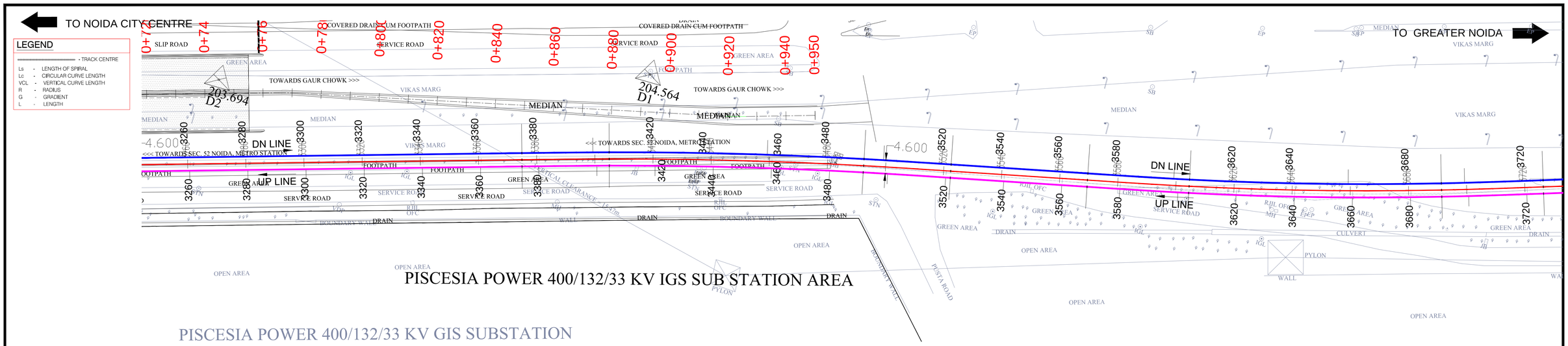
TITLE:
GENERAL ALIGNMENT DRAWING FROM CH: 2+800 to 3+260

SCALE

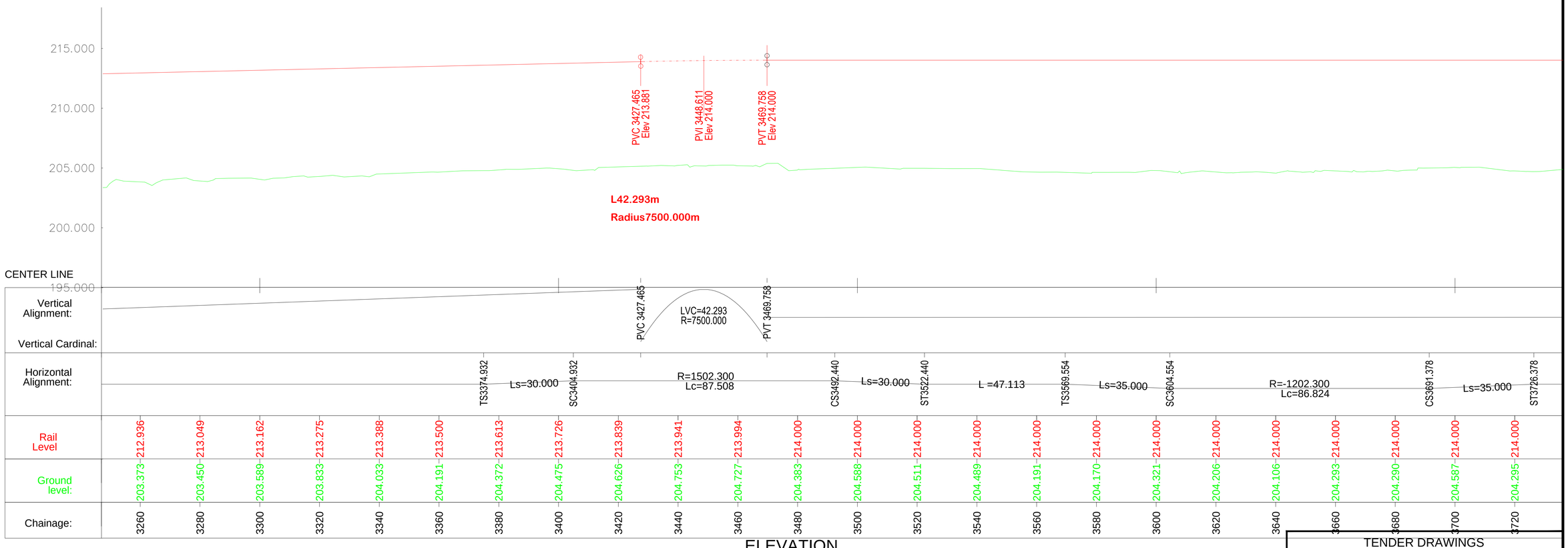
DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001



PISCESIA POWER 400/132/33 KV GIS SUBSTATION



ELEVATION

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ALIGNMENT DRAWING FROM CH: 3+260 to 3+720

SCALE

DATE
MAY-21

REV.
R2

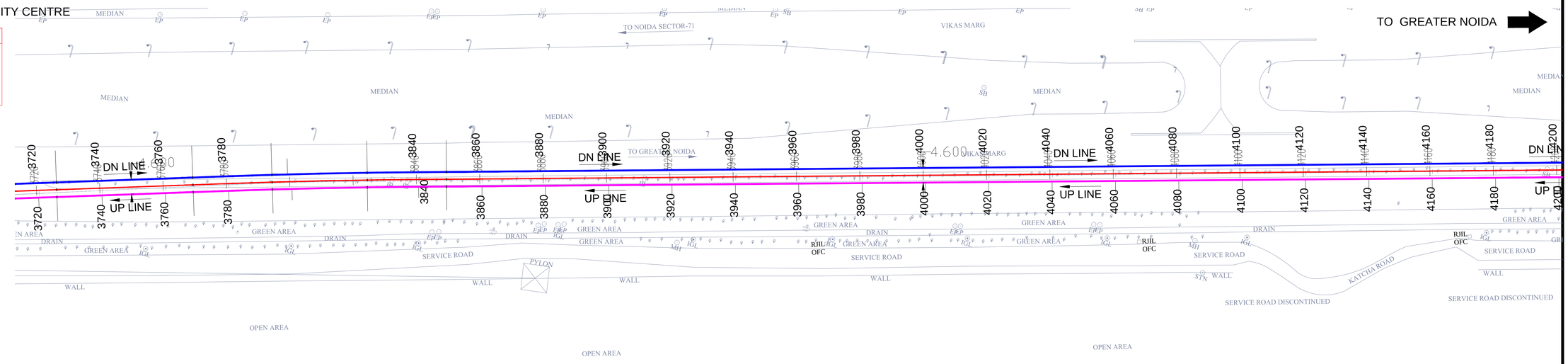
DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001

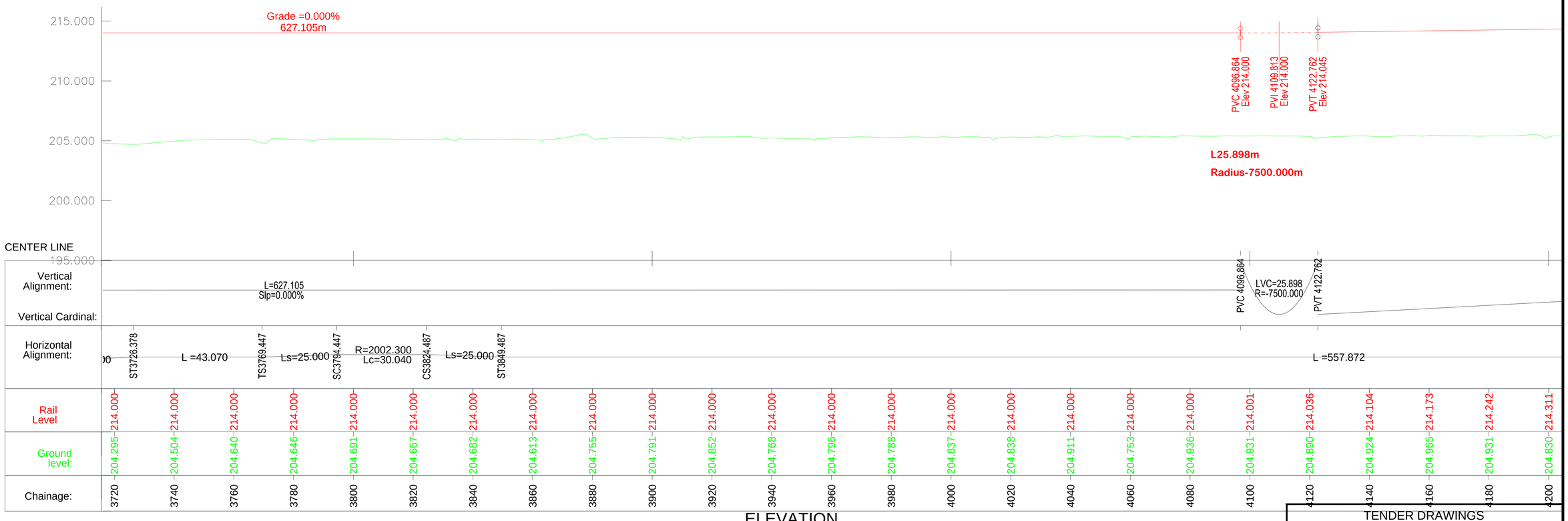
TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

- TRACK CENTRE
- Ls - LENGTH OF SPIRAL
- Lc - CIRCULAR CURVE LENGTH
- VCL - VERTICAL CURVE LENGTH
- R - RADIUS
- G - GRADIENT
- L - LENGTH





ELEVATION

TENDER DRAWINGS

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ALIGNMENT DRAWING FROM CH: 3+720 to 4+200

SCALE

DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001

TO NOIDA CITY CENTRE

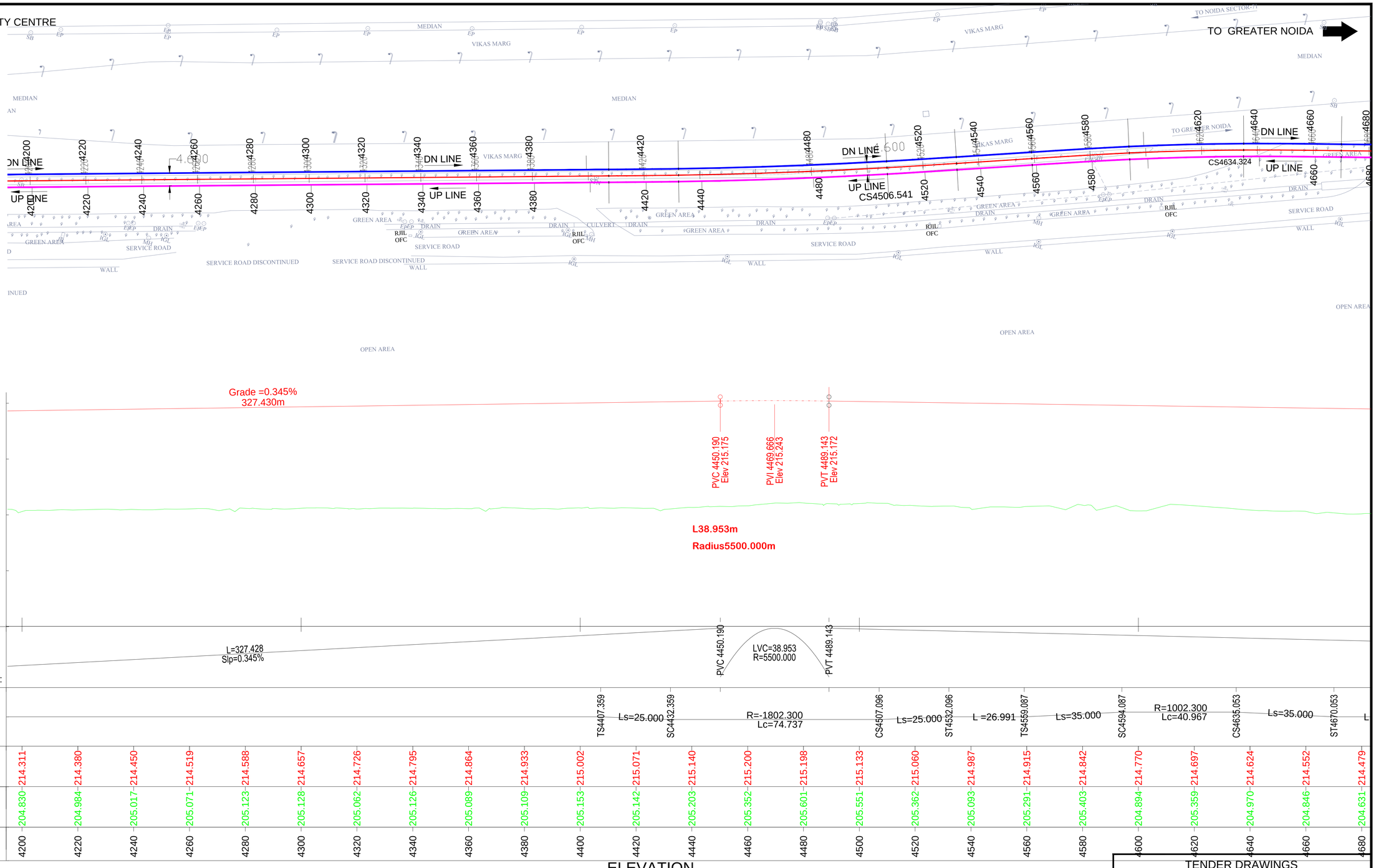
TO GREATER NOIDA

TO NOIDA SECTOR-71

LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH



ELEVATION

TENDER DRAWINGS

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ALIGNMENT DRAWING FROM CH: 4+200 to 4+680

SCALE

DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001

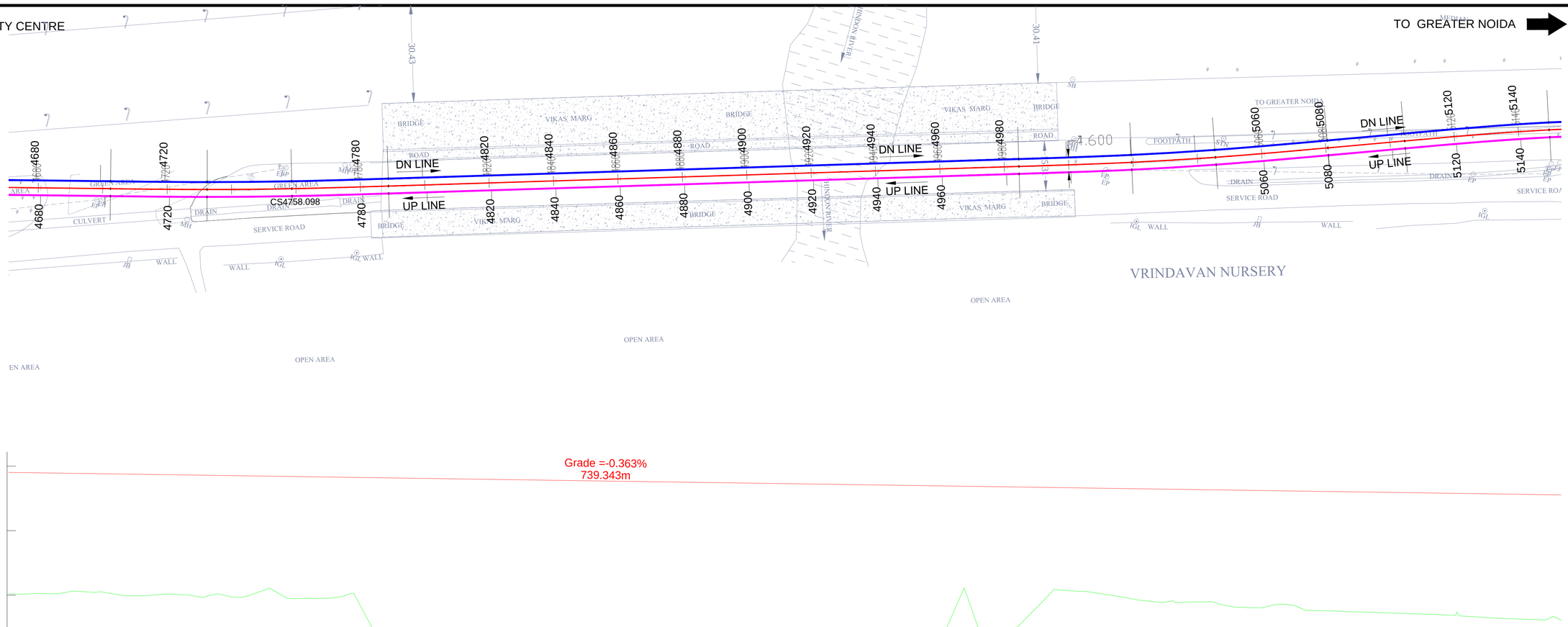
TO NOIDA CITY CENTRE

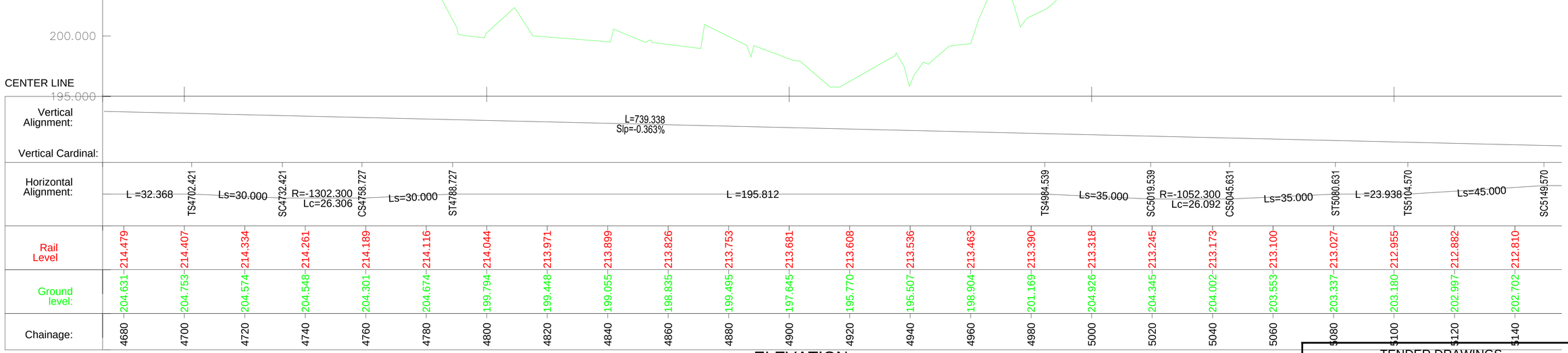
TO GREATER NOIDA

LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH





ELEVATION

TENDER DRAWINGS

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ALIGNMENT DRAWING FROM CH: 4+680 to 5+140

SCALE

DATE
MAY-21

REV.
R2

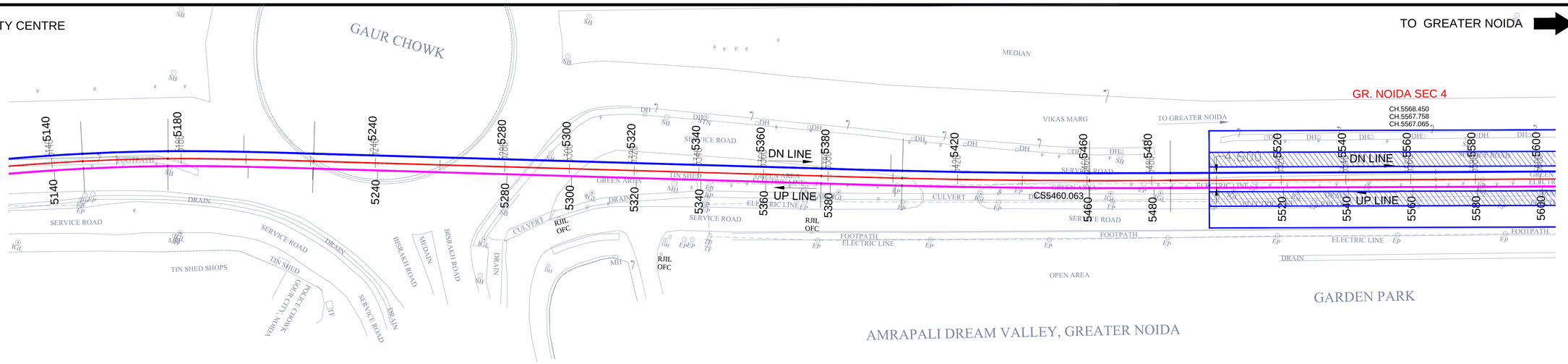
DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001

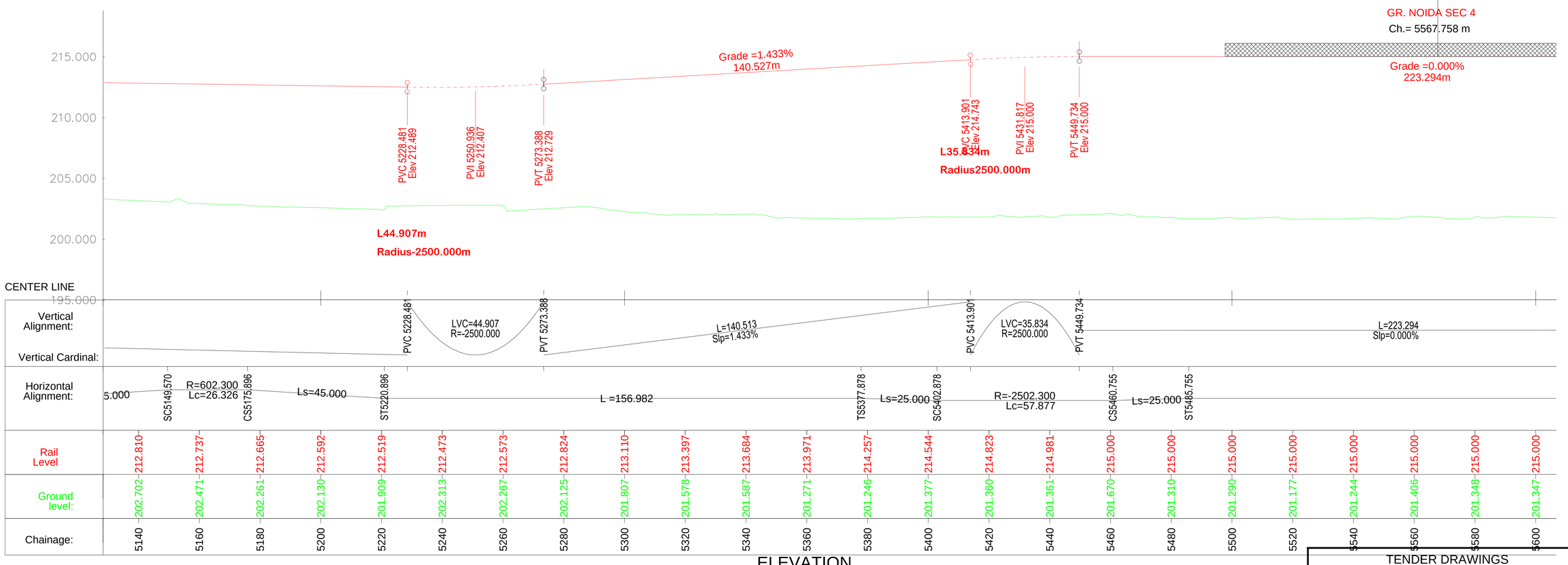
TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

- TRACK CENTRE
- Ls - LENGTH OF SPIRAL
- Lc - CIRCULAR CURVE LENGTH
- VCL - VERTICAL CURVE LENGTH
- R - RADIUS
- G - GRADIENT
- L - LENGTH





ELEVATION

TENDER DRAWINGS

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ALIGNMENT DRAWING FROM CH: 5+140 to 5+600

SCALE

DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001

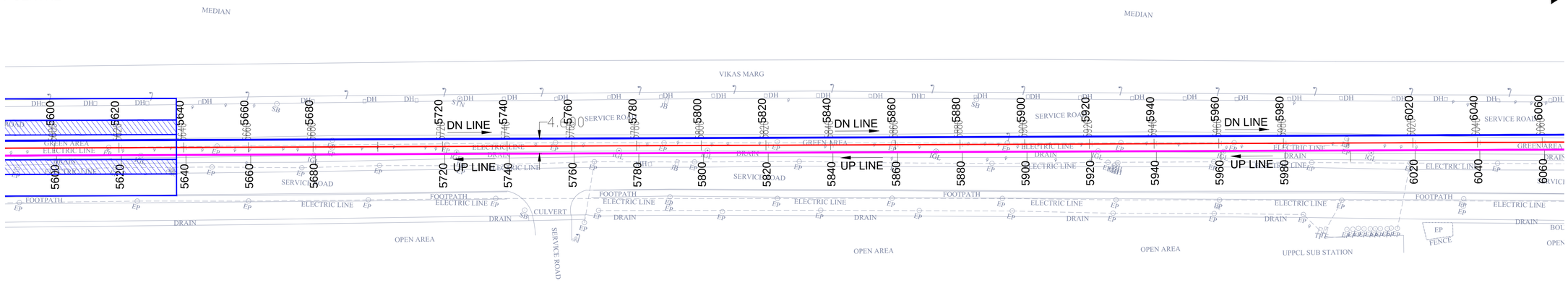
TO NOIDA CITY CENTRE

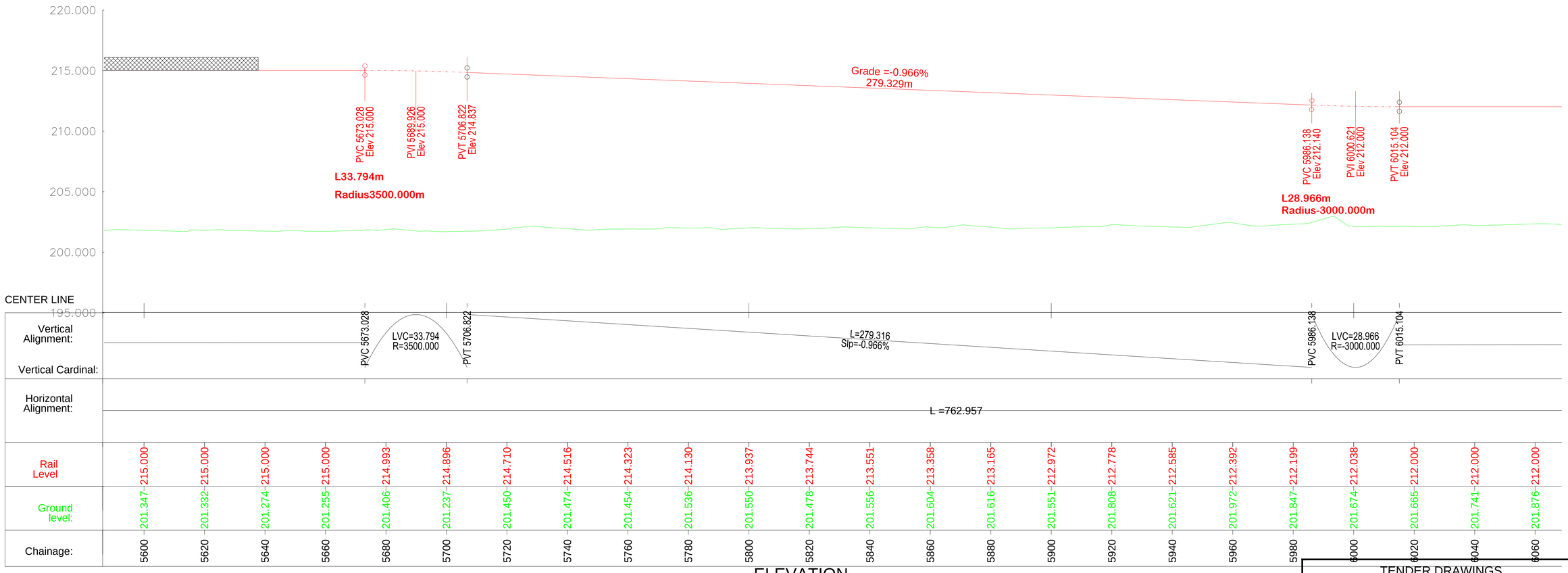
TO GREATER NOIDA

LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH





ELEVATION

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)	DGM (E&M)	DGM (S&T)
DGM (Design)	DGM (RS)	DGM (TEL/AFC)
GM (D&P)	SDGM (P&T)	
MGR (TRACK)	GM (RS&E)	SDGM (S&T)
DGM (CIVIL)		GM (S&T)
JGM (Civil)		
GM (Projects)		
CIVIL	E&M	S & T

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)	MGR-1 (E&M)	MGR (SIG.)
CA (Arch.)	MGR-2 (E&M)	MGR (TEL.)
MGR (CIVIL)	DGM (E&M)	DGM (TEL.)
DGM (CIVIL)	MGR (TRACK)	DGM (S&T)
PD (N-GN)	DGM (TRACK)	GM (S&T)

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ALIGNMENT DRAWING FROM CH: 5+600 to 6+060

SCALE

DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001

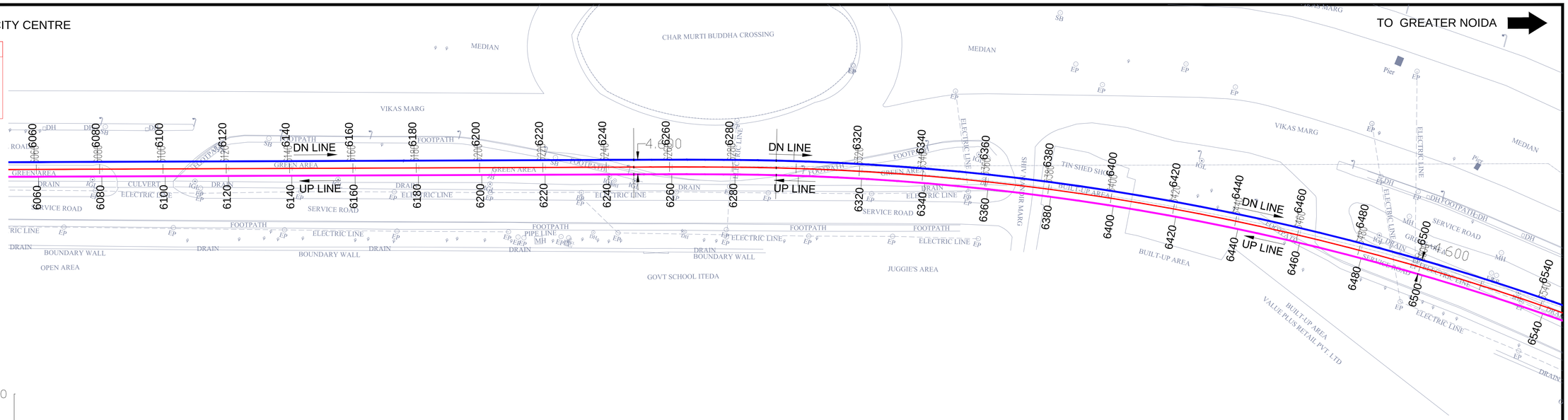
TO NOIDA CITY CENTRE

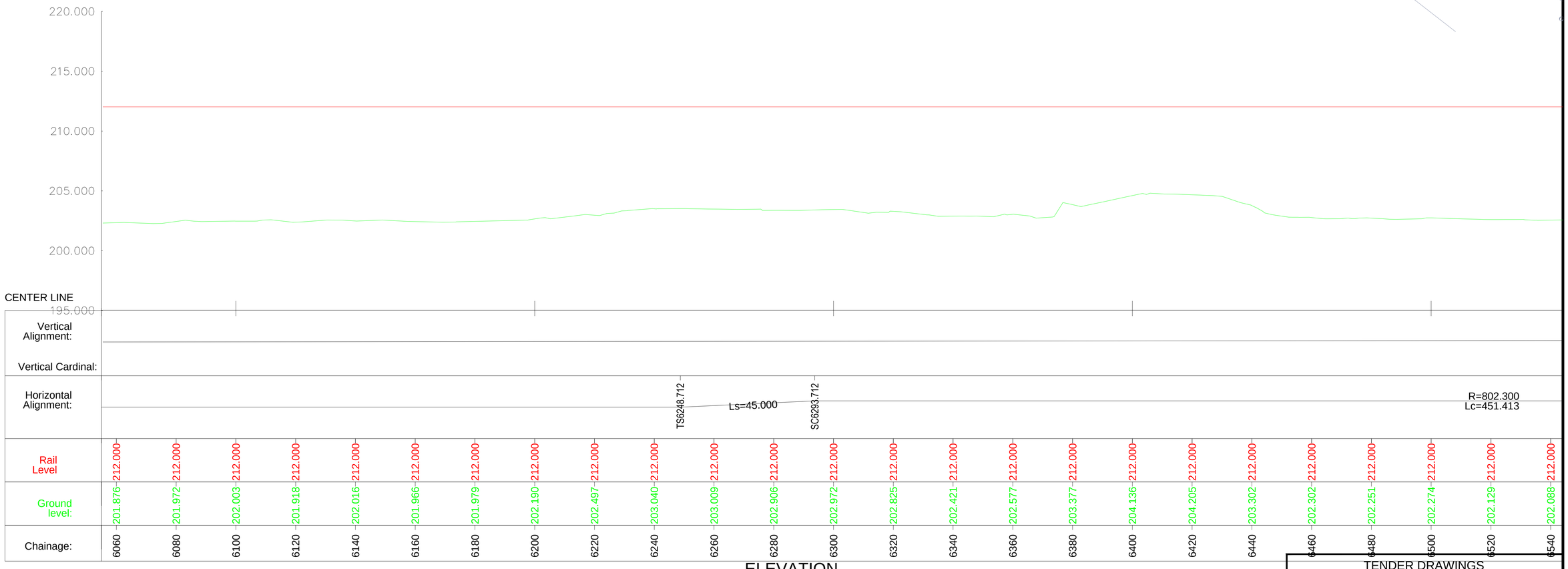
TO GREATER NOIDA

LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH





ELEVATION

TENDER DRAWINGS

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ALIGNMENT DRAWING FROM CH: 6+060 to 6+540

SCALE

DATE
MAY-21

REV.
R2

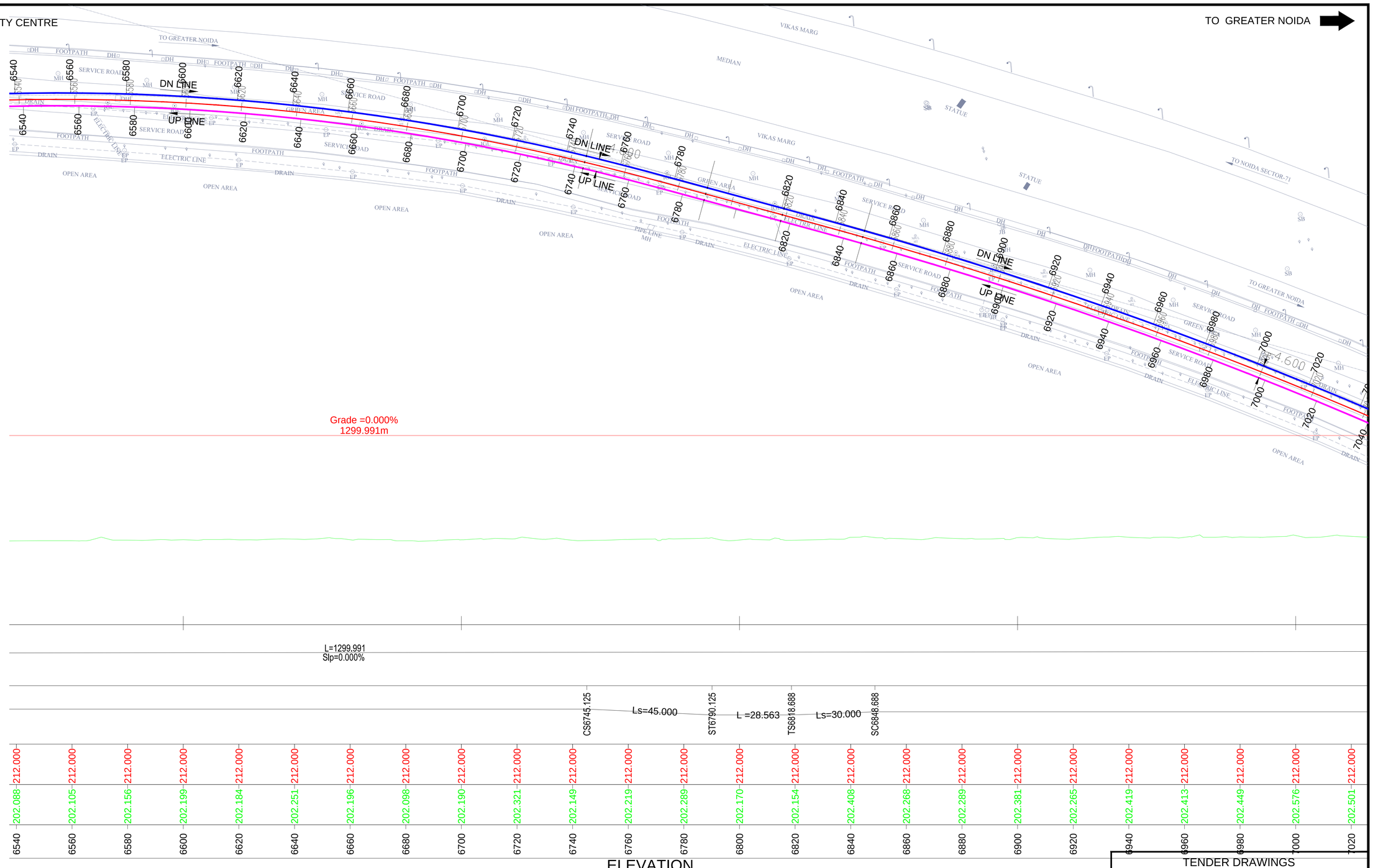
DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001

TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

- TRACK CENTRE
- Ls - LENGTH OF SPIRAL
- Lc - CIRCULAR CURVE LENGTH
- VCL - VERTICAL CURVE LENGTH
- R - RADIUS
- G - GRADIENT
- L - LENGTH



ELEVATION

TENDER DRAWINGS

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ALIGNMENT DRAWING FROM CH: 6+540 to 7+020

SCALE

DATE
MAY-21

REV.
R2

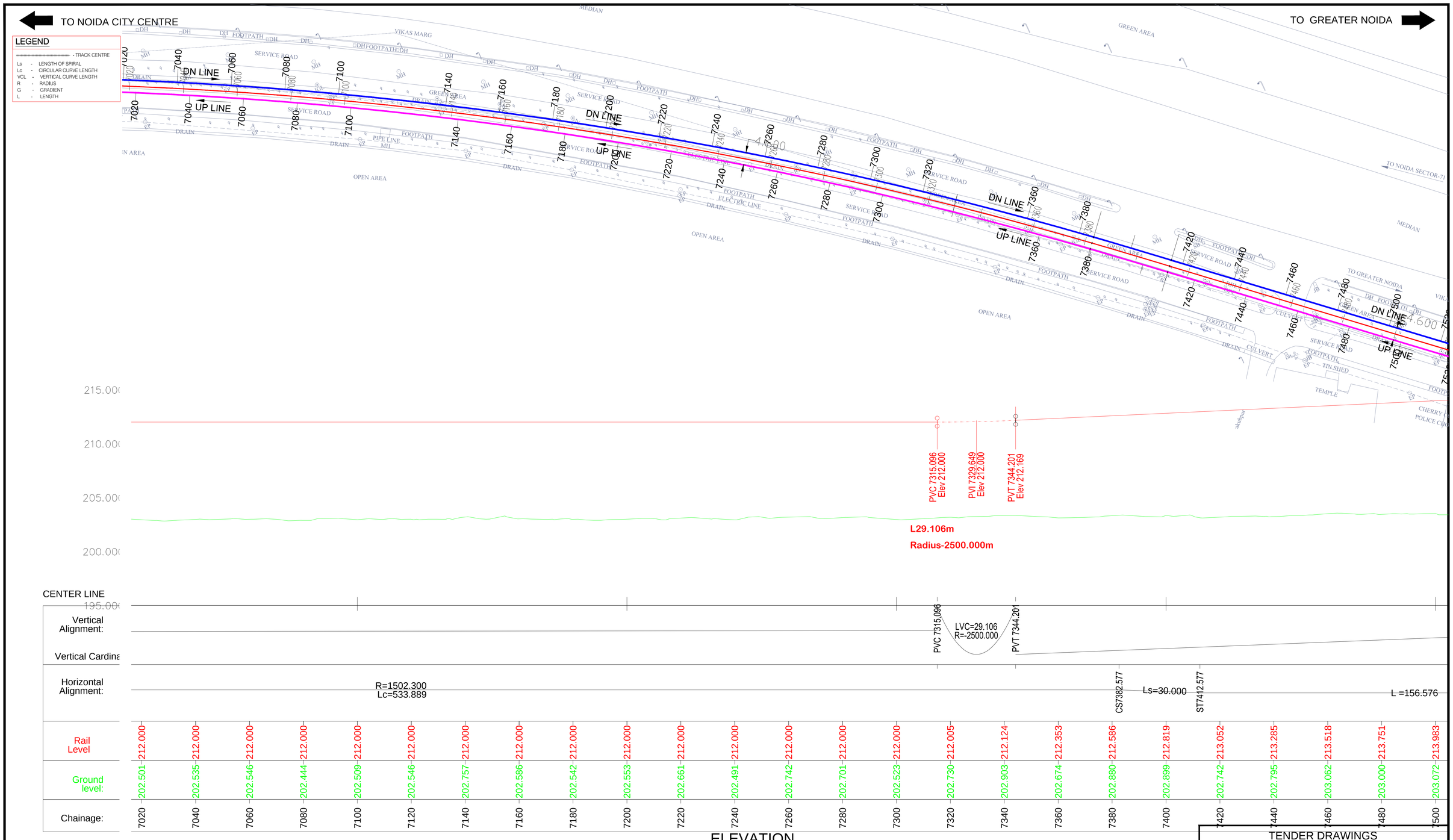
DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001

TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

- TRACK CENTRE
Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH



ELEVATION

TENDER DRAWINGS

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ALIGNMENT DRAWING FROM CH: 7+020 to 7+500

SCALE

DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001

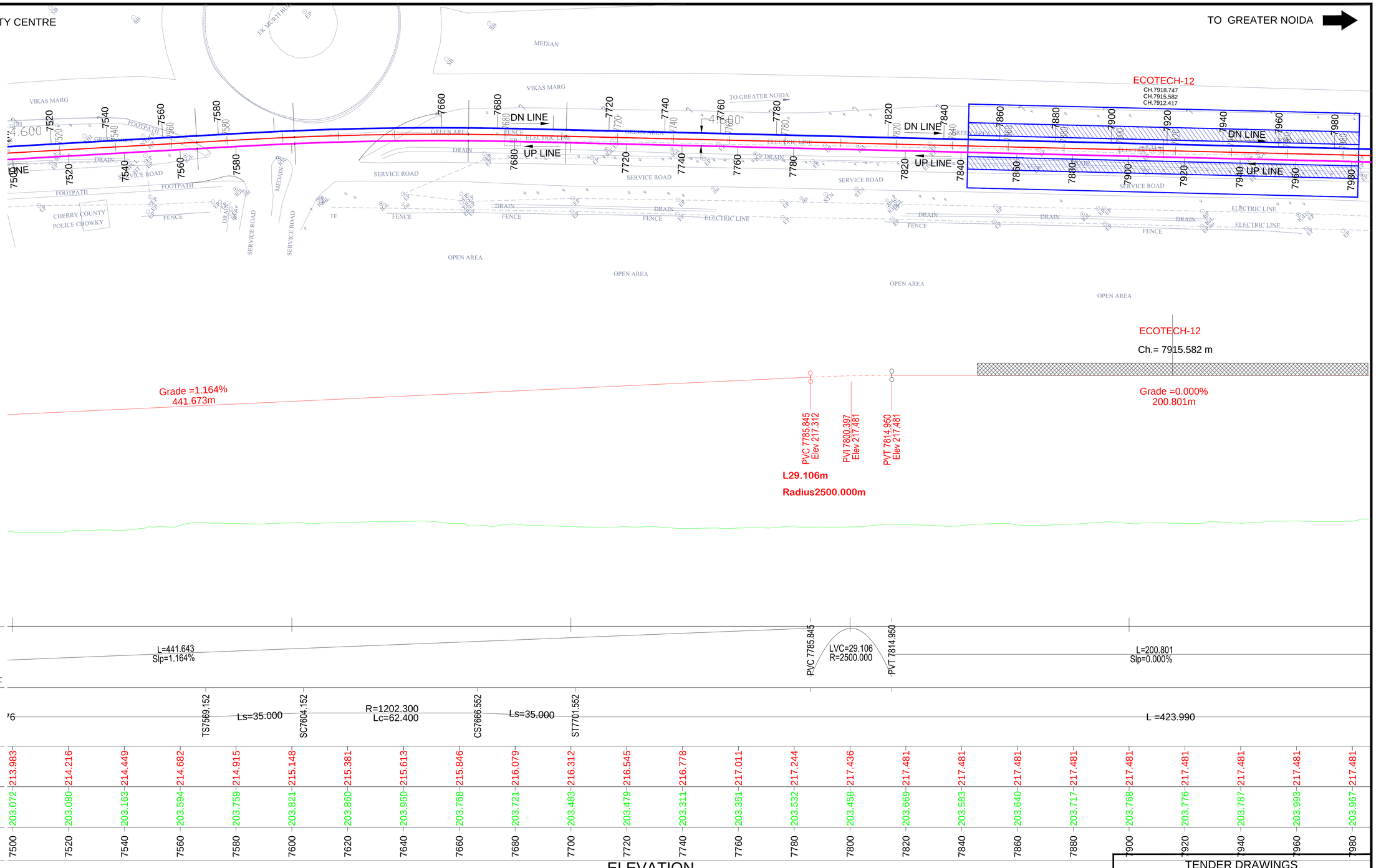
TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH



ELEVATION

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ALIGNMENT DRAWING FROM CH: 7+500 to 7+980

SCALE

DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001

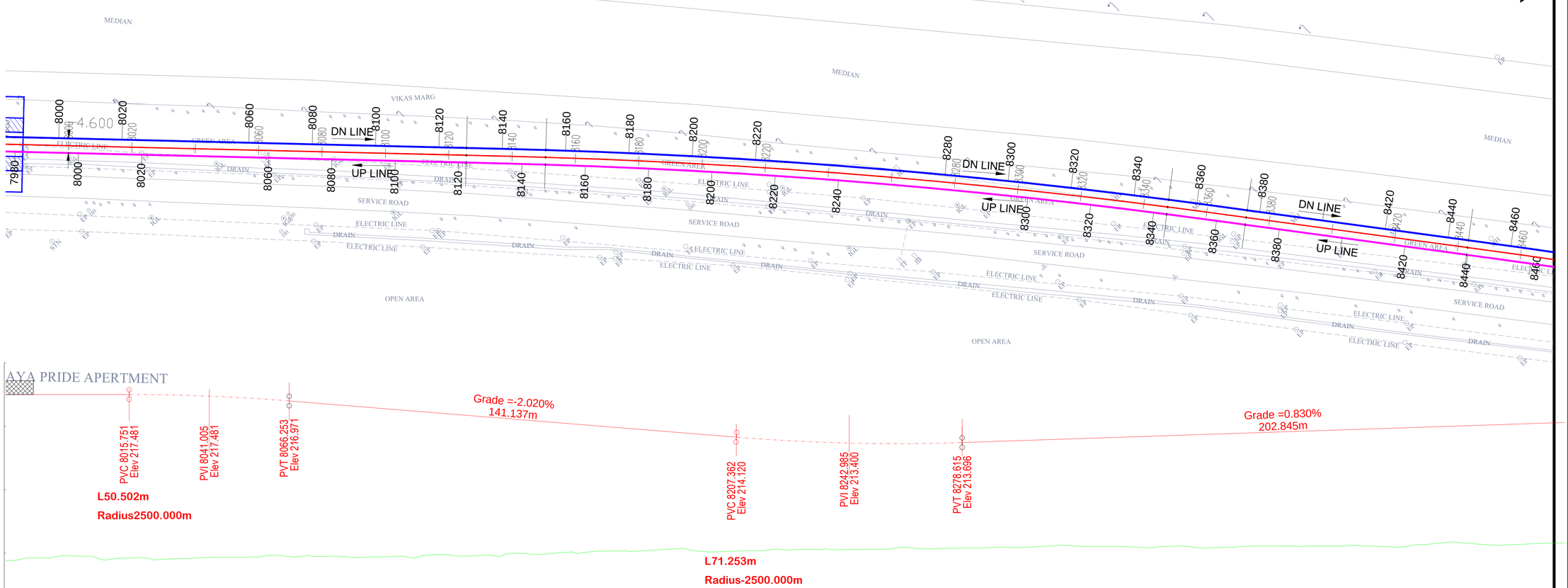
TO NOIDA CITY CENTRE

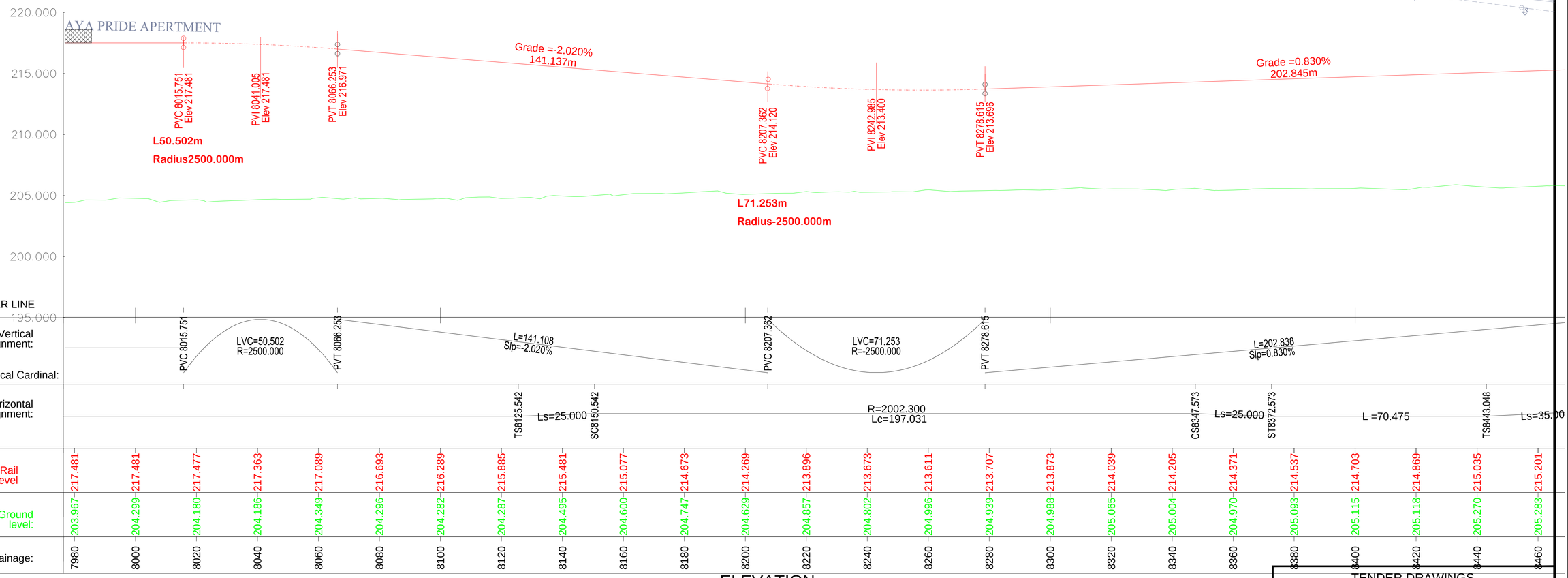
TO GREATER NOIDA

LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH





ELEVATION

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)	DGM (E&M)	DGM (S&T)
DGM (Design)	DGM (RS)	DGM (TEL/AFC)
GM (D&P)	SDGM (P&T)	
MGR (TRACK)	GM (RS&E)	SDGM (S&T)
DGM (CIVIL)		GM (S&T)
JGM (Civil)		
GM (Projects)		
CIVIL	E&M	S & T

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)	MGR-1 (E&M)	MGR (SIG.)
CA (Arch.)	MGR-2 (E&M)	MGR (TEL.)
MGR (CIVIL)	DGM (E&M)	DGM (TEL.)
DGM (CIVIL)	MGR (TRACK)	DGM (S&T)
PD (N-GN)	DGM (TRACK)	GM (S&T)

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

GENERAL ALIGNMENT DRAWING FROM CH: 7+980 to 8+460

SCALE

DATE
MAY-21

REV.
R2

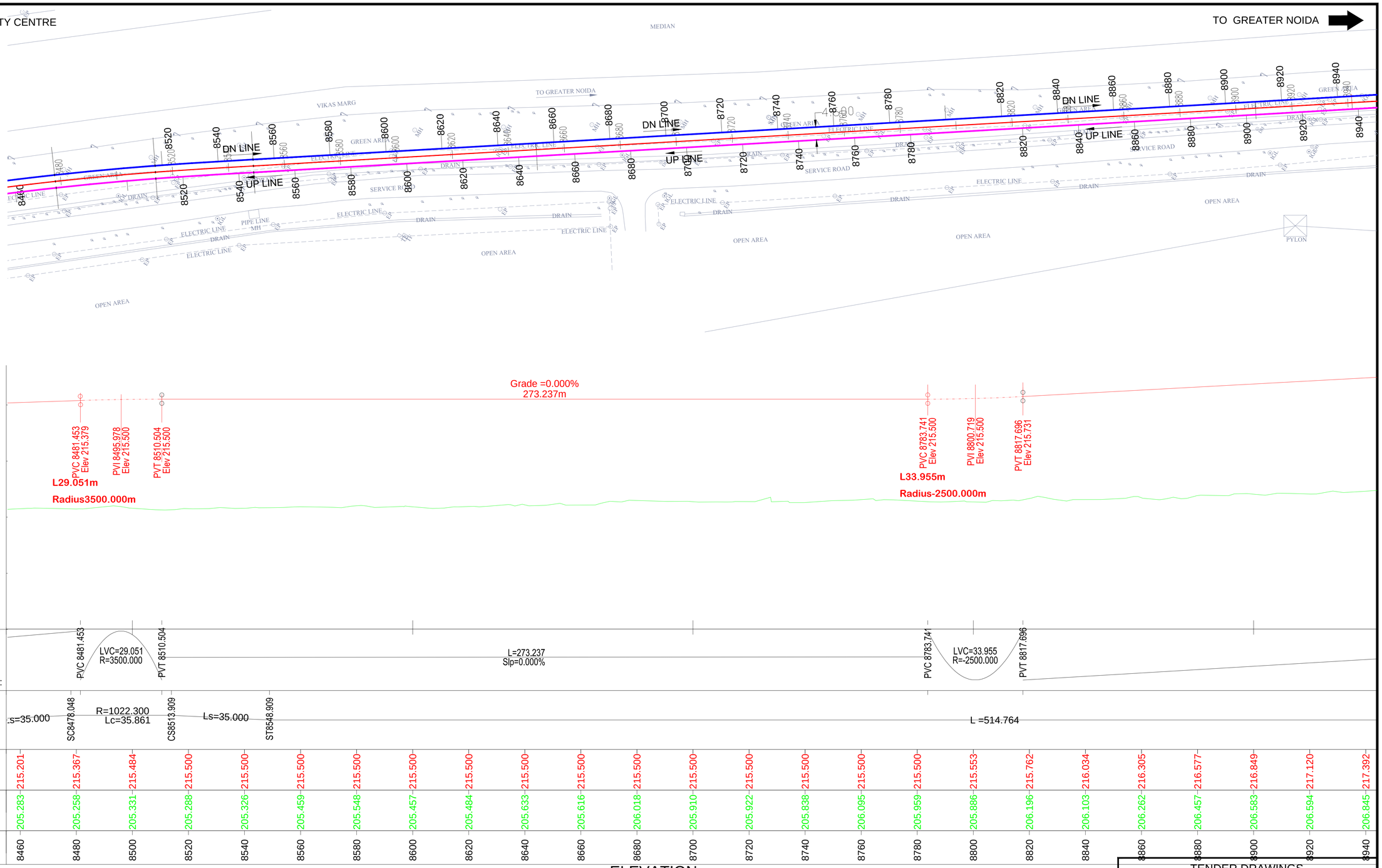
DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001

TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

- TRACK CENTRE
- Ls - LENGTH OF SPIRAL
- Lc - CIRCULAR CURVE LENGTH
- VCL - VERTICAL CURVE LENGTH
- R - RADIUS
- G - GRADIENT
- L - LENGTH



ELEVATION

TENDER DRAWINGS

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ALIGNMENT DRAWING FROM CH: 8+460 to 8+940

SCALE

DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001

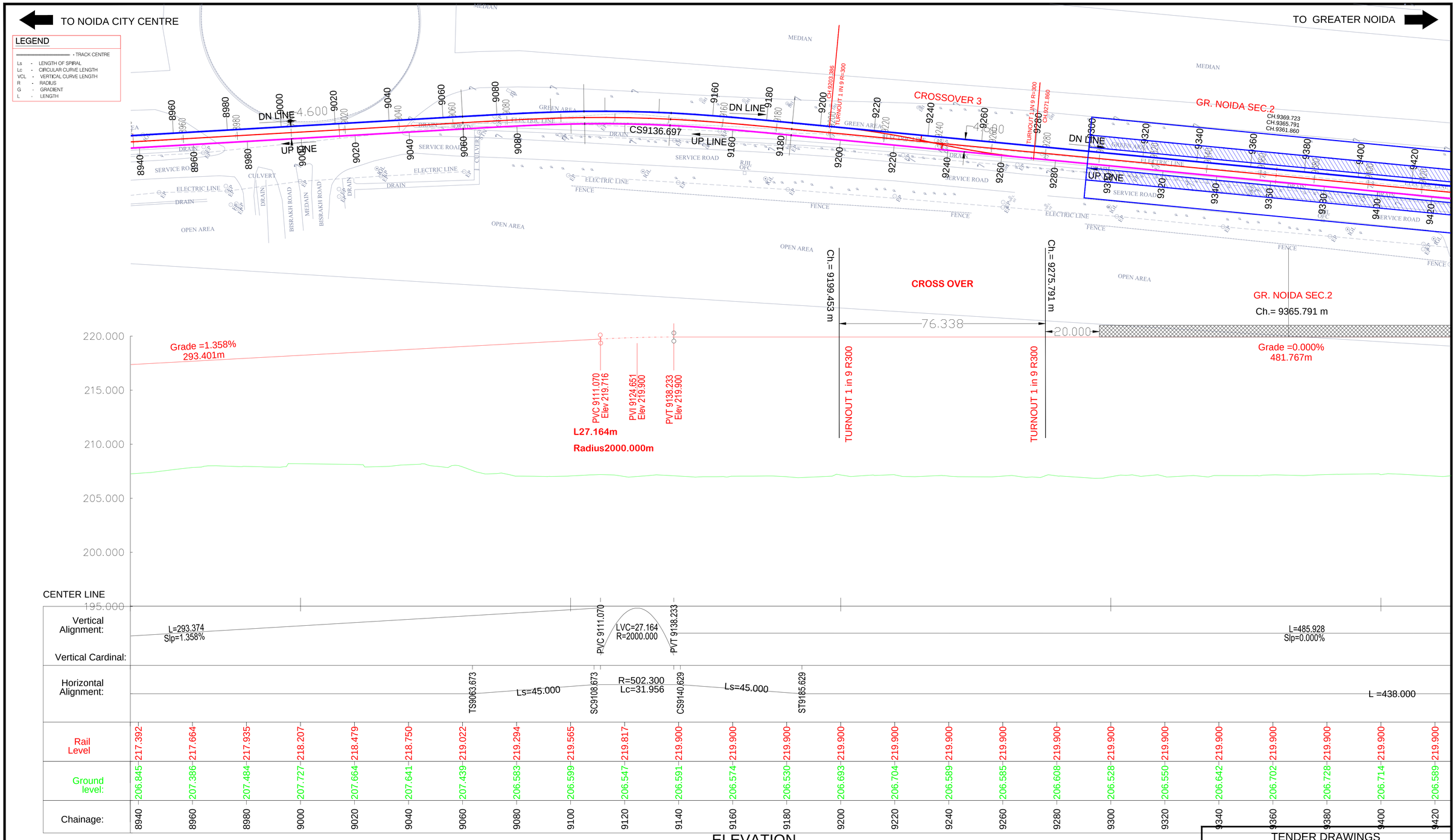
TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH



ELEVATION

TENDER DRAWINGS

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ALIGNMENT DRAWING FROM CH: 8+940 to 9+420

SCALE

DATE
MAY-21

REV.
R2

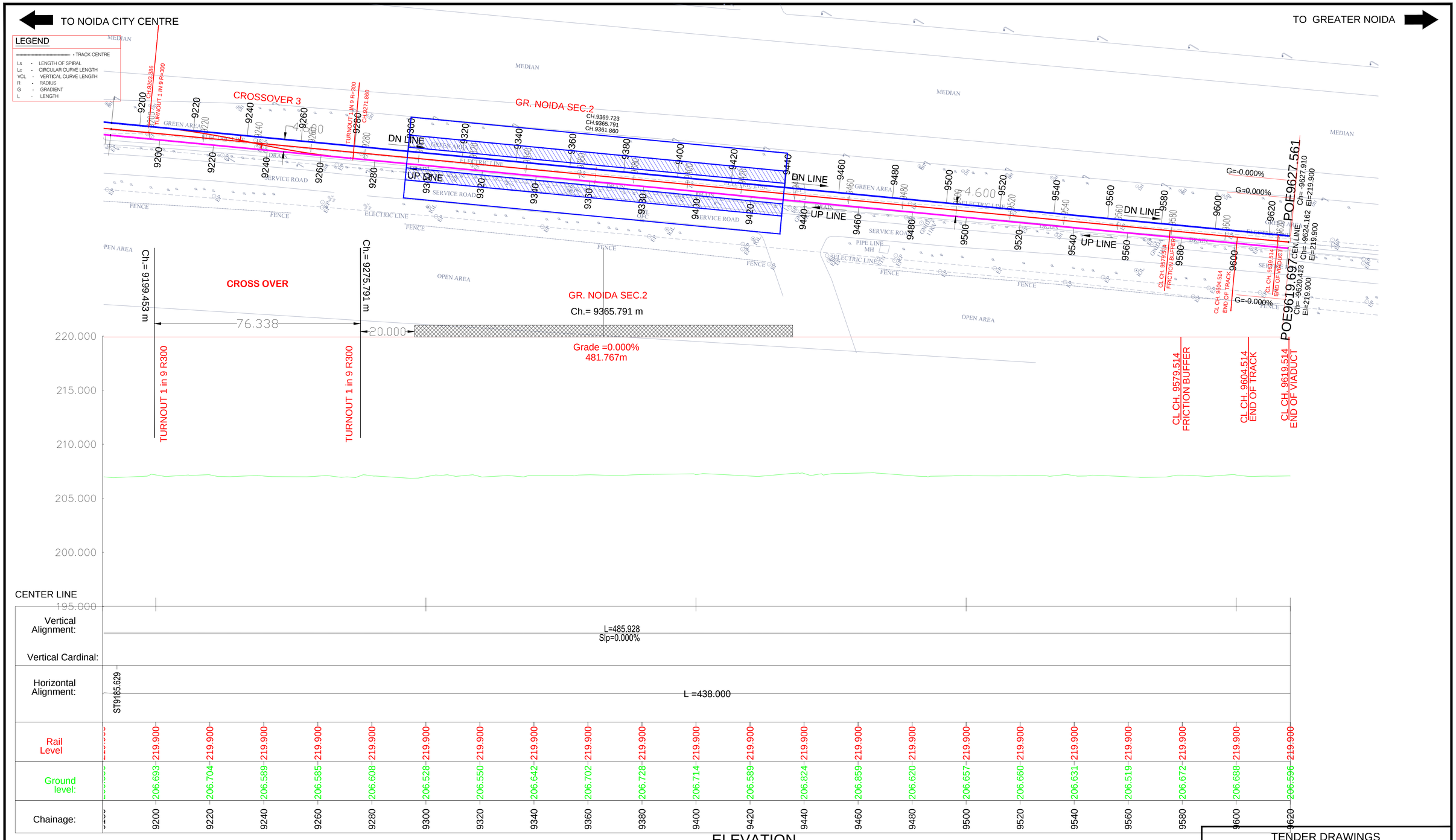
DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001

TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

- TRACK CENTRE
- Ls - LENGTH OF SPIRAL
- Lc - CIRCULAR CURVE LENGTH
- VCL - VERTICAL CURVE LENGTH
- R - RADIUS
- G - GRADIENT
- L - LENGTH



CENTER LINE

Vertical Alignment: L=485.928, Slp=0.000%

Vertical Cardinal:

Horizontal Alignment: ST9185.629, L =438.000

Chainage:	9200	9220	9240	9260	9280	9300	9320	9340	9360	9380	9400	9420	9440	9460	9480	9500	9520	9540	9560	9580	9600	9620
Ground level:	206.693	206.704	206.589	206.585	206.608	206.528	206.550	206.642	206.702	206.728	206.714	206.589	206.824	206.859	206.620	206.657	206.660	206.631	206.519	206.672	206.688	206.596
Rail Level	219.900	219.900	219.900	219.900	219.900	219.900	219.900	219.900	219.900	219.900	219.900	219.900	219.900	219.900	219.900	219.900	219.900	219.900	219.900	219.900	219.900	219.900

ELEVATION

TENDER DRAWINGS

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ALIGNMENT DRAWING FROM CH: 9+420 to 9+620

SCALE

DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001

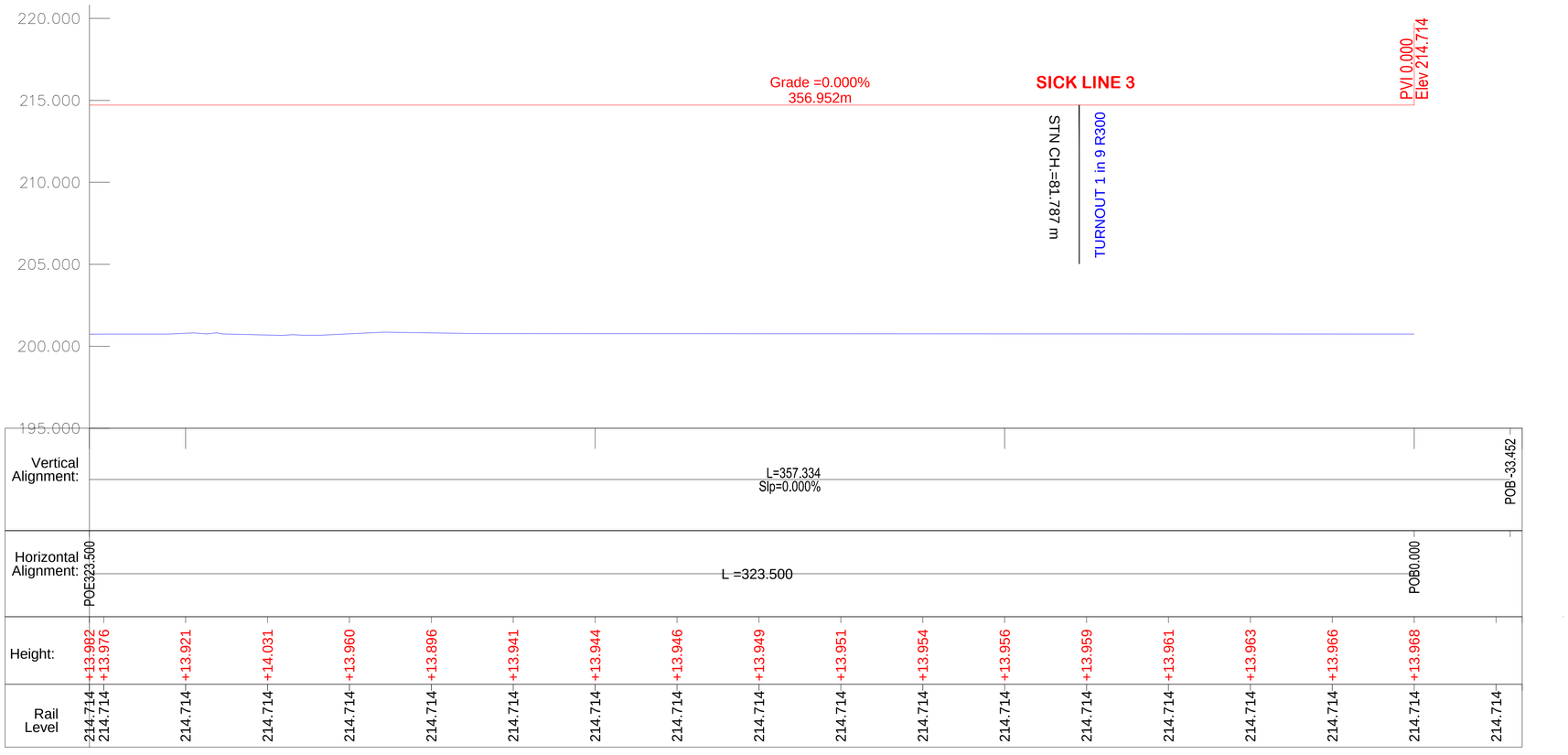
TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

▪▪ - TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH



ELEVATION

TENDER DRAWINGS

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ALIGNMENT DRAWING FROM CH: 9+420 to 9+620

SCALE

DATE
MAY-21

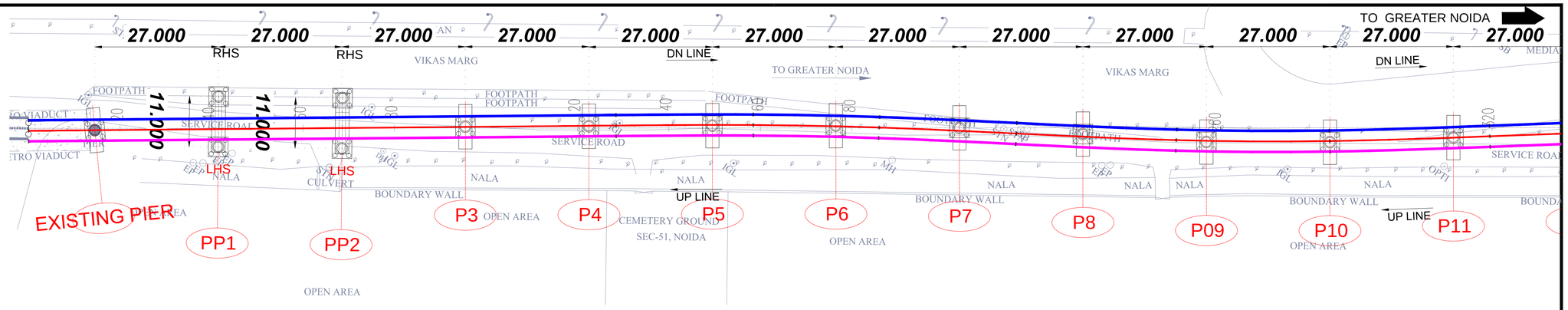
REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001

GENERAL ARRANGEMENT DRAWINGS

TO NOIDA CITY CENTRE

TO GREATER NOIDA



LEGEND

- ---------- - TRACK CENTRE

Ls	-	LENGTH OF SPIRAL
Lc	-	CIRCULAR CURVE LENGTH
VCL	-	VERTICAL CURVE LENGTH
R	-	RADIUS
G	-	GRADIENT
L	-	LENGTH

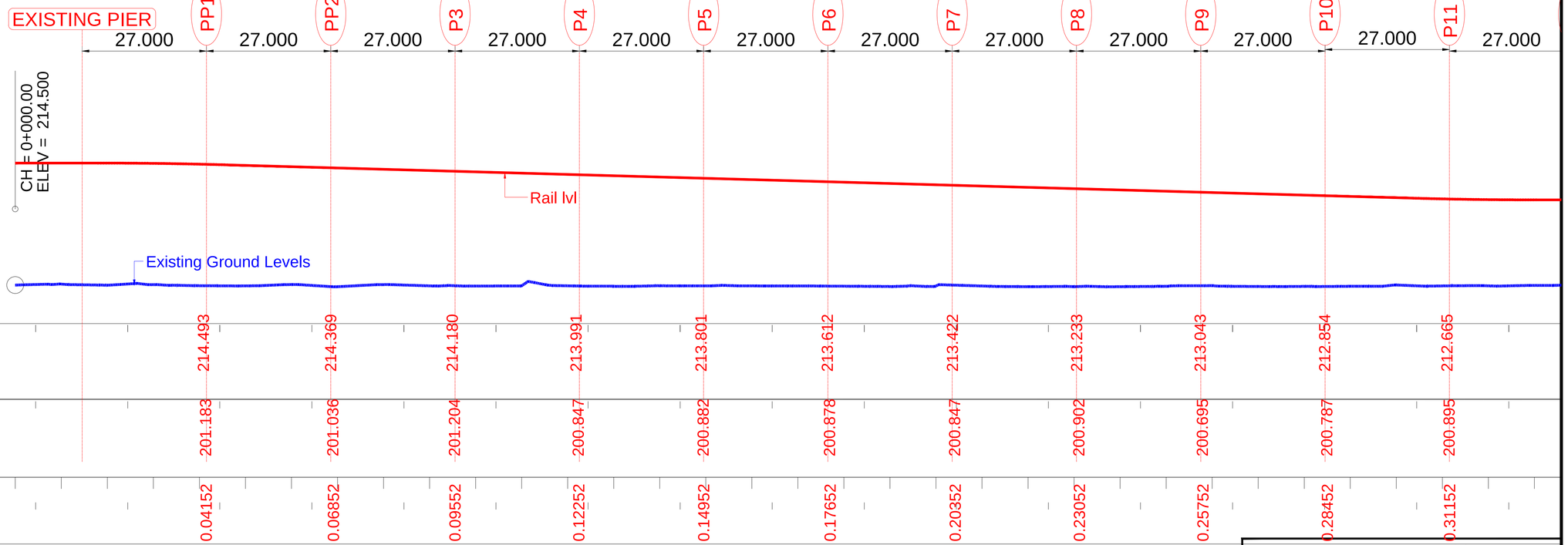
LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER

SL.NO.	DESCRIPTION	SYMBOL
1.	Road	ROAD
2	Boundary Wall	BOUNDARY WALL
3	Footpath	
4	Fence	
5	Electric Line	
6	POND	POND
7	Drain	
8	Nala	NALA
9	PARK/GREEN	
10	Building	BUILDING
11	Shop	SHOP
12	School	SCHOOL
13	Temple	TEMPLE
14	Gate	

SL.NO.	DESCRIPTION	SYMBOL
15	Bridge	BRIDGE
16	Bus Stop	BSTOP
17	Fly Over	
18	Water Pipeline	
19	Drain Hole	DH
20	Man Hole	MH
21	Lamp Post	LP
22	Optical F.Cable	OFC
23	Vodafone OFC	VOFC
24	Transformer	TF
25	Airtel OFC	AIRTEL
26	Flood Light	FL
27	Km Stone	KMS
28	Handpump	HP

SL.NO.	DESCRIPTION	SYMBOL
29	U. P. Pwr. Co. Ltd.	UPPCL
30	Signal Post	
31	Control Point	CTN
32	Tree	
33	Indraprastha G. Ltd.	IGL
34	Well	
35	Culvert	CULVERT
36	Junction Box	JB
37	Electric Pole	EP
38	Bore Hole	BH
39	Sign Board	SB
40	Tree No.	P100
41	Ghaziabad Dev.Athrity	
42	Noida Pwr.Co.Ltd.	



ELEVATION

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

GENERAL ARRANGEMENT DRAWING

SCALE

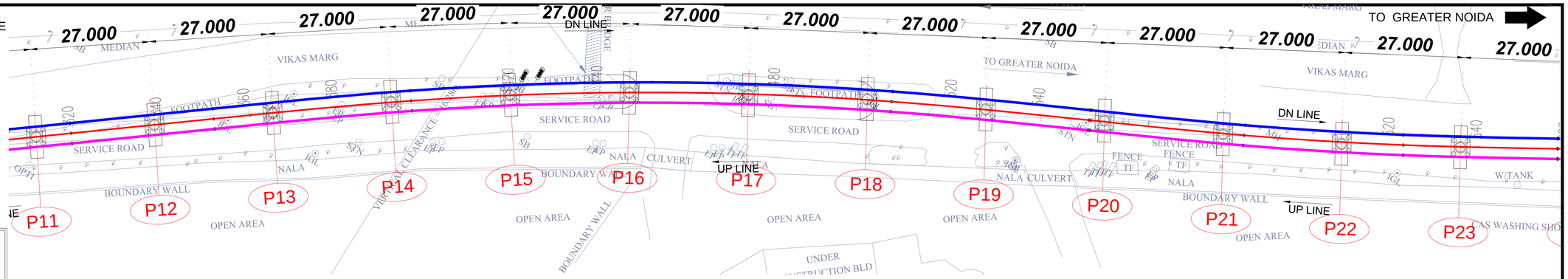
DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA



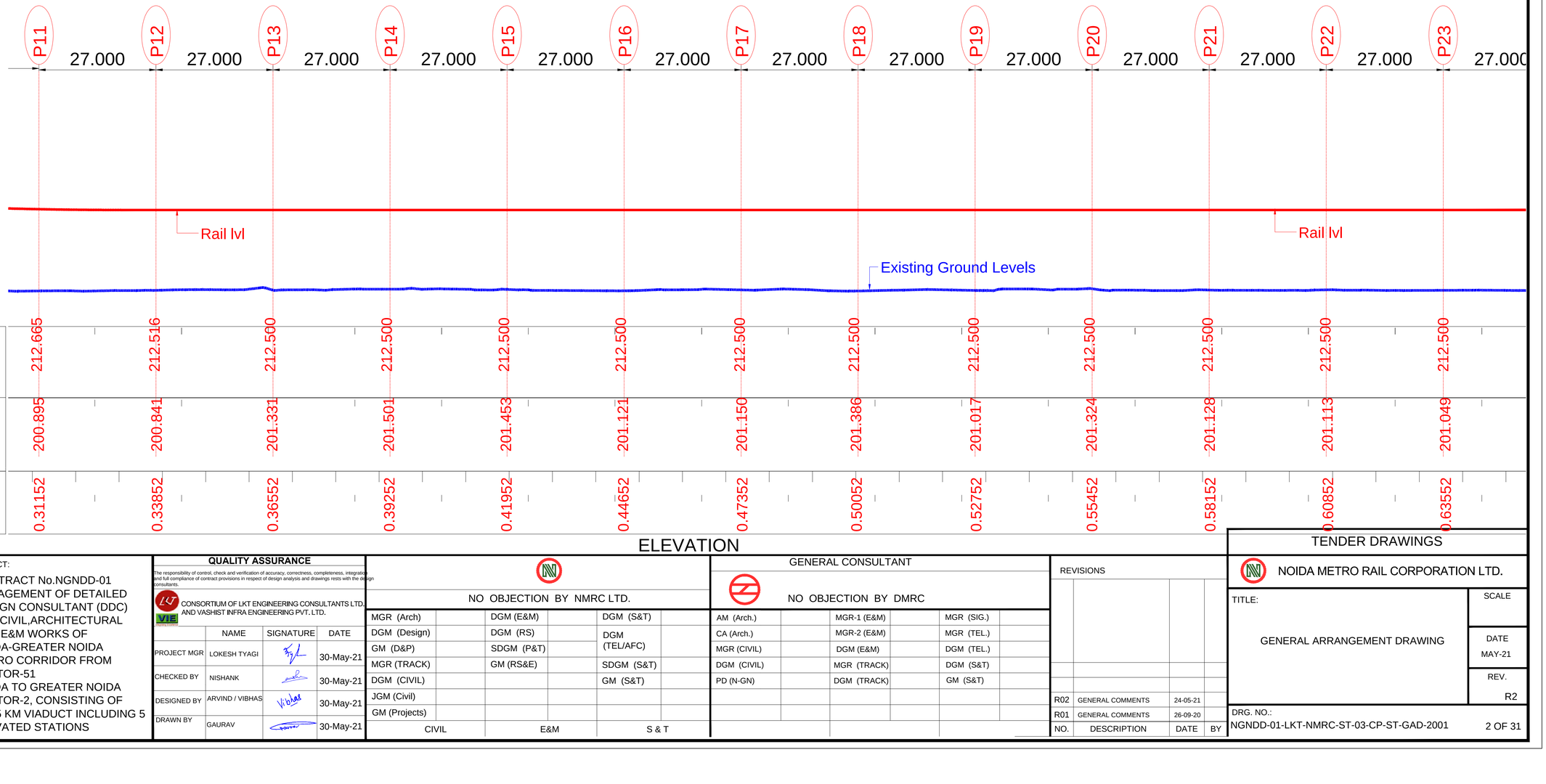
LEGEND

- ---------- - TRACK CENTRE
- Ls - LENGTH OF SPIRAL
- Lc - CIRCULAR CURVE LENGTH
- VCL - VERTICAL CURVE LENGTH
- R - RADIUS
- G - GRADIENT
- L - LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road		15	Bridge		29	U.P. Pwr. Co. Ltd.	
2	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	STN.
4	Fence		18	Water Pipeline		32	Indraprastha G. Ltd.	
5	Electric Line		19	Drain Hole	DH	33	Tree	
6	POND		20	Main Hole		34	Wall	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Optical F-Cable		36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC		37	Electric Pole	
10	Building		24	Transformer		38	Bore Hole	
11	Shop		25	Airtel OFC		39	Speed Board	
12	Shed		26	Flood Light		40	Tree No.	
13	Temple		27	Km Stone		41	Ghz.N.Ind.Disp.Alloy	
14	Gate		28	Handpump		42	Noida.Pwr.Co.Ltd.	



ELEVATION

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

GENERAL ARRANGEMENT DRAWING

SCALE

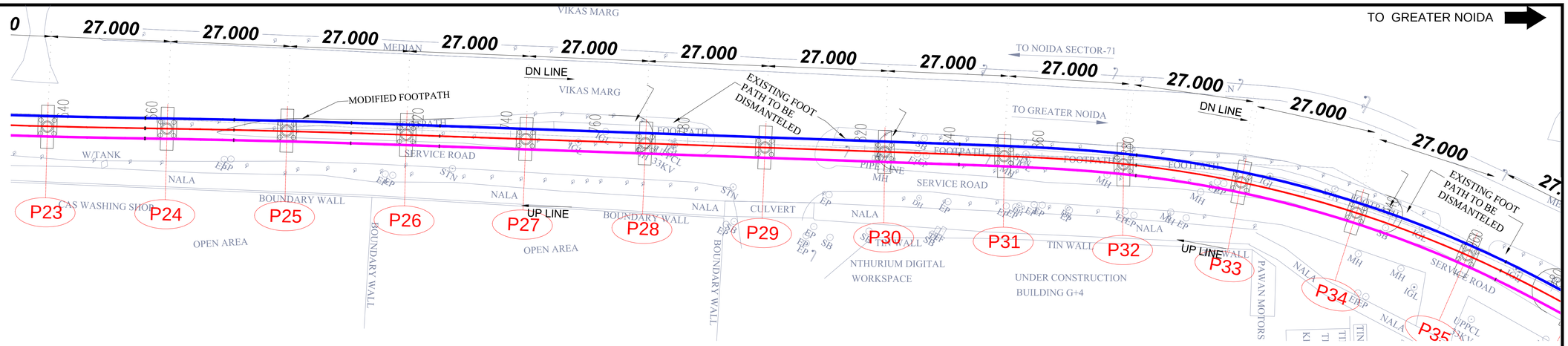
DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA



LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

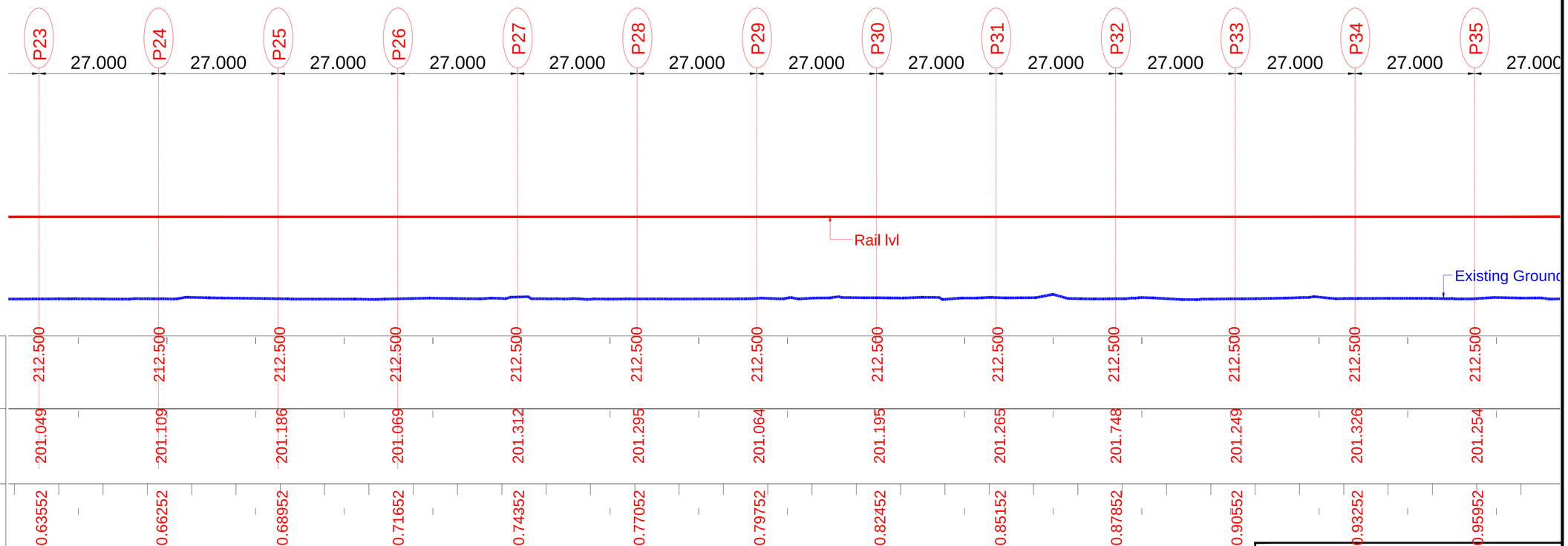
LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER

SL.NO	DESCRIPTION	SYMBOL
1.	Road	ROAD
2	Boundary Wall	BOW
3	Footpath	
4	Fence	
5	Electric Line	HT/LT
6	POND	POND
7	Drain	
8	Nala	NALA
9	PARK/GREEN	
10	Building	BUILDG
11	Shop	SHOP
12	Shed	SHED
13	Temple	TEMPL
14	Gate	

SL.NO	DESCRIPTION	SYMBOL
15	Bridge	
16	Bus Stop	BSstop
17	Fly Over	
18	Water Pipeline	
19	Drain Hole	DH
20	Main Hole	MH
21	Lamp Post	
22	Optical F.Cable	
23	Vodafone OFC	VOF
24	Transformer	
25	Airtel OFC	AOFC
26	Flood Light	
27	Km Stone	
28	Handpump	

SL.NO	DESCRIPTION	SYMBOL
29	U.P. Pwr. Co. Ltd.	
30	Signal Post	
31	Control Point	
32	Tree	
33	Indraprastha G. Ltd.	
34	Well	
35	Culvert	
36	Junction Box	
37	Electric Pole	
38	Bore Hole	
39	Sign Board	
40	Tree No.	
41	Gtr.N.Ind.Dvlp.Athty.	
42	Noida Pwr.Co.Ltd.	



ELEVATION

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

GENERAL ARRANGEMENT DRAWING

SCALE

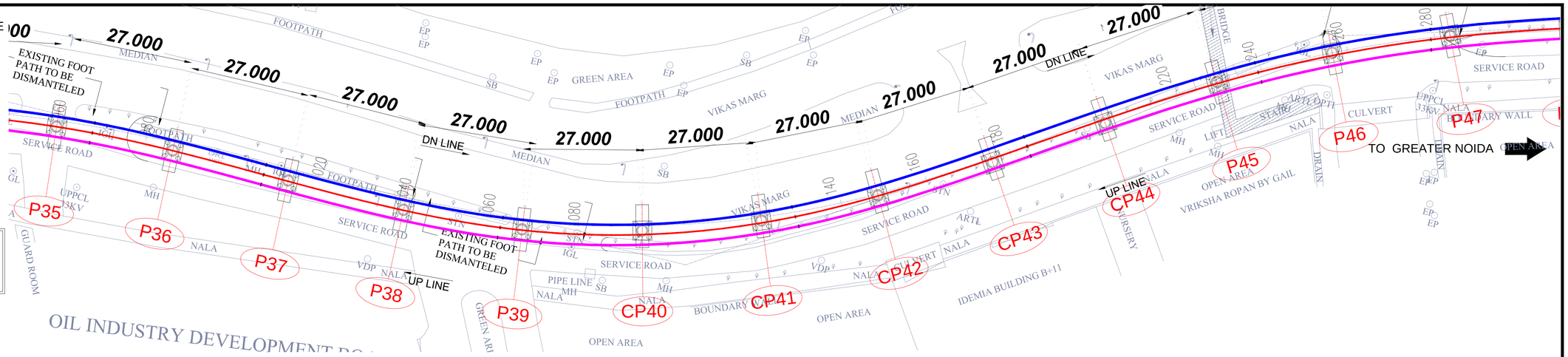
DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

3 OF 31

TO NOIDA CITY CENTRE



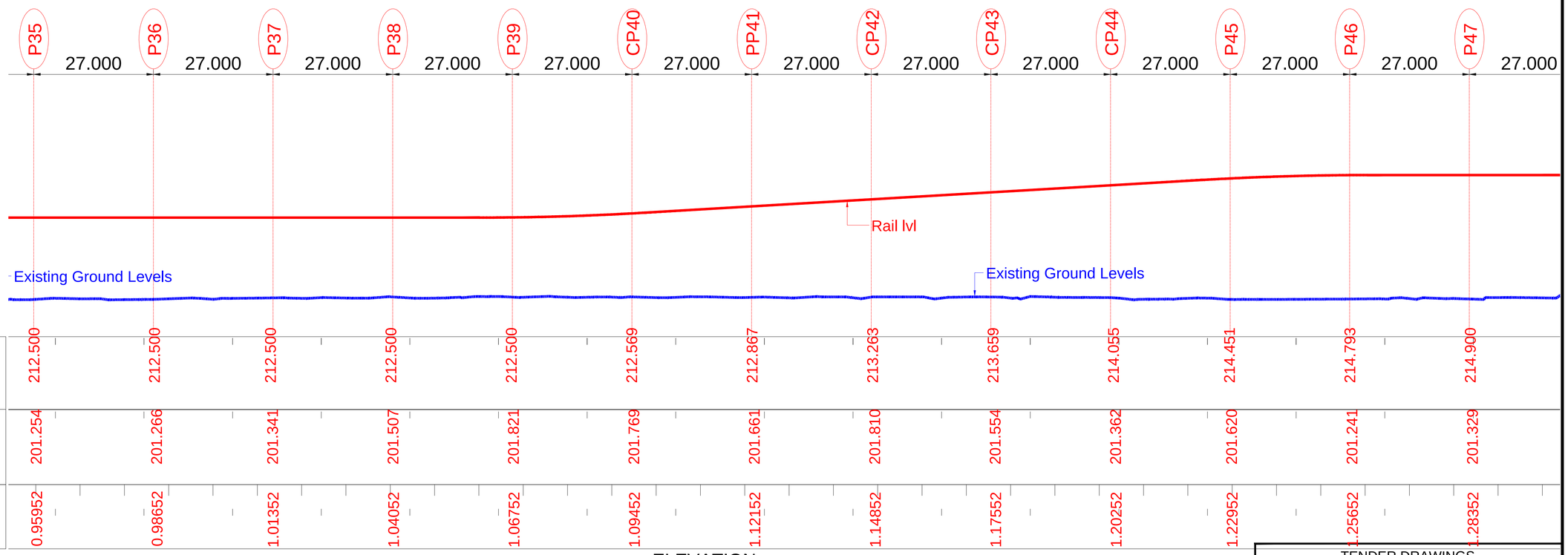
LEGEND

- TRACK CENTRE
- Ls - LENGTH OF SPIRAL
- Lc - CIRCULAR CURVE LENGTH
- VCL - VERTICAL CURVE LENGTH
- R - RADIUS
- G - GRADIENT
- L - LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER

SL.NO	DESCRIPTION	SYMBOL	SL.NO	DESCRIPTION	SYMBOL	SL.NO	DESCRIPTION	SYMBOL
1.	Road		15	Bridge		29	Lt. P. Pwr. Co. Ltd.	
2	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Coolnig Point	
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Indraprastha G. Ltd.	
6	POND	POND	20	Man Hole	MH	34	Well	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Optical F-Cable		36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC		37	Electric Pole	
10	Building		24	Transformer		38	Bore Hole	
11	Shop	SHOP	25	Airtel OFC		39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No.	
13	Temple	TMPL	27	Km Stone		41	Gtr.N.Ind.Dvlp.Athty	
14	Gate		28	Handpump		42	Noida Pwr.Co.Ltd.	



Rail lvl	212.500	212.500	212.500	212.500	212.500	212.569	212.867	213.263	213.659	214.055	214.451	214.793	214.900
Existing Ground Levels	201.254	201.266	201.341	201.507	201.821	201.769	201.661	201.810	201.554	201.362	201.620	201.241	201.329
CHAINAGE	0.95952	0.98652	1.01352	1.04052	1.06752	1.09452	1.12152	1.14852	1.17552	1.20252	1.22952	1.25652	1.28352

ELEVATION

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ARRANGEMENT DRAWING

SCALE

DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

NOIDA SEC.122
CH:1421.510m.

TO GREATER NOIDA

LEGEND

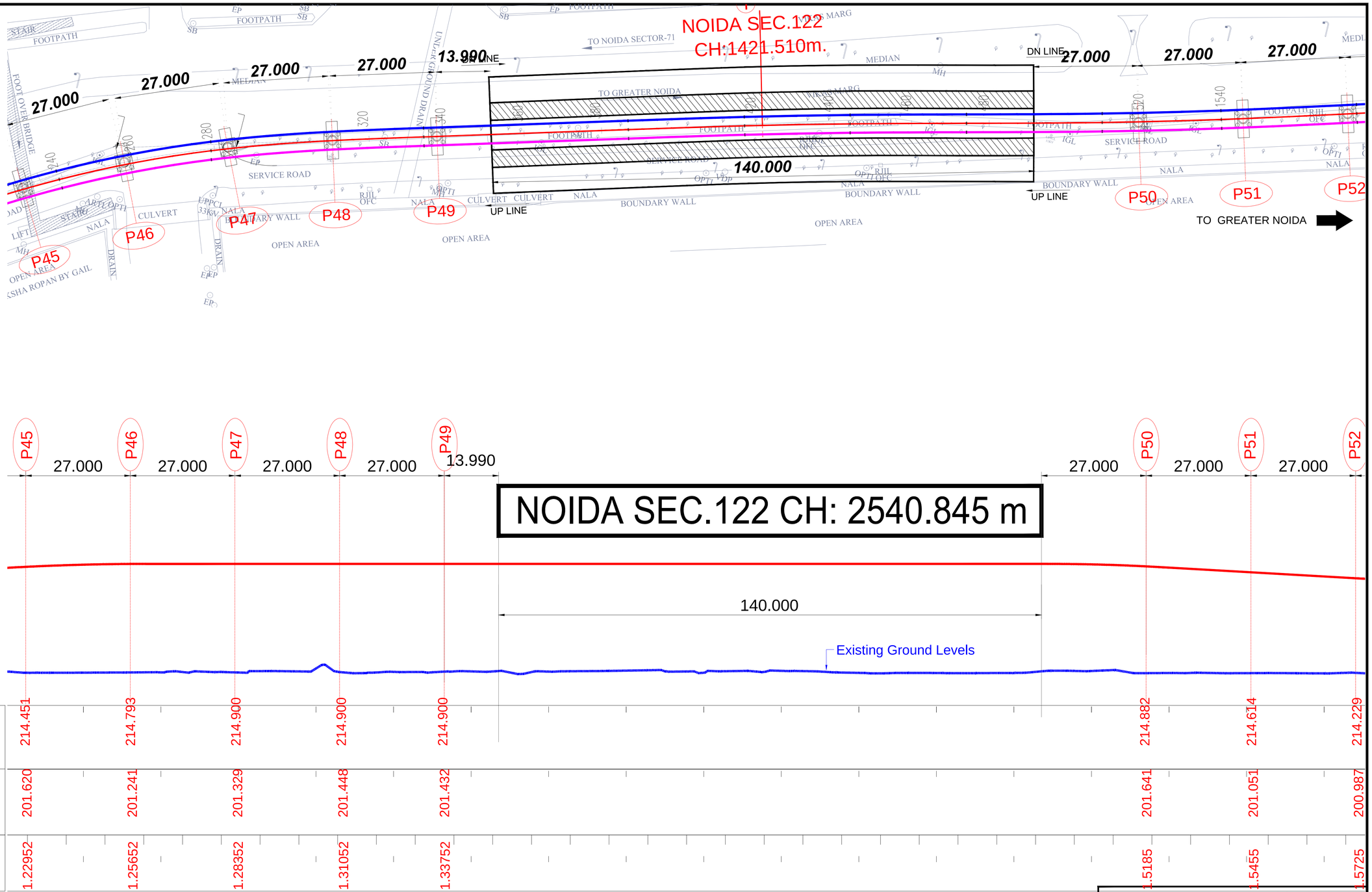
- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road		15	Bridge		29	U. P. Pwr. Co. Ltd.	
2	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Indraprastha G. Ltd.	
6	POND		20	Man Hole	MH	34	Well	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Optical F-Cable		36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC	VDP	37	Electric Pole	
10	Building	BUILD.	24	Transformer		38	Bore Hole	BH
11	Shop	SHOP	25	Airtel OFC	ARTL	39	Sign Board	SB
12	Shed	SHED	26	Flood Light	FL	40	Gtr.N.Ind.Dvlp.Athty.	P100
13	Temple	TMPL	27	Km Stone	KMS	41	Tree No.	
14	Gate		28	Handpump	HP	42	Noida Pwr.Co.Ltd.	



NOIDA SEC.122 CH: 2540.845 m

ELEVATION

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ARRANGEMENT DRAWING

SCALE

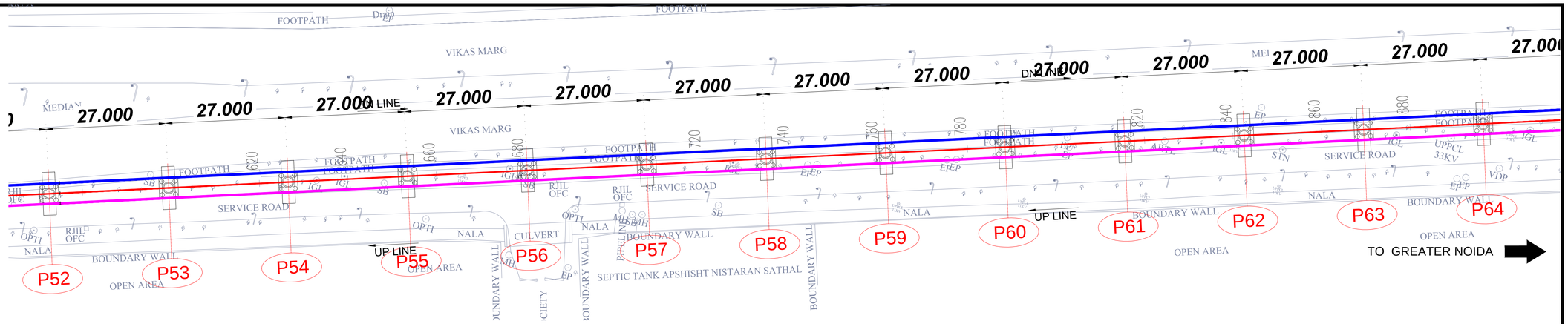
DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

5 OF 31

TO NOIDA CITY CENTRE



LEGEND

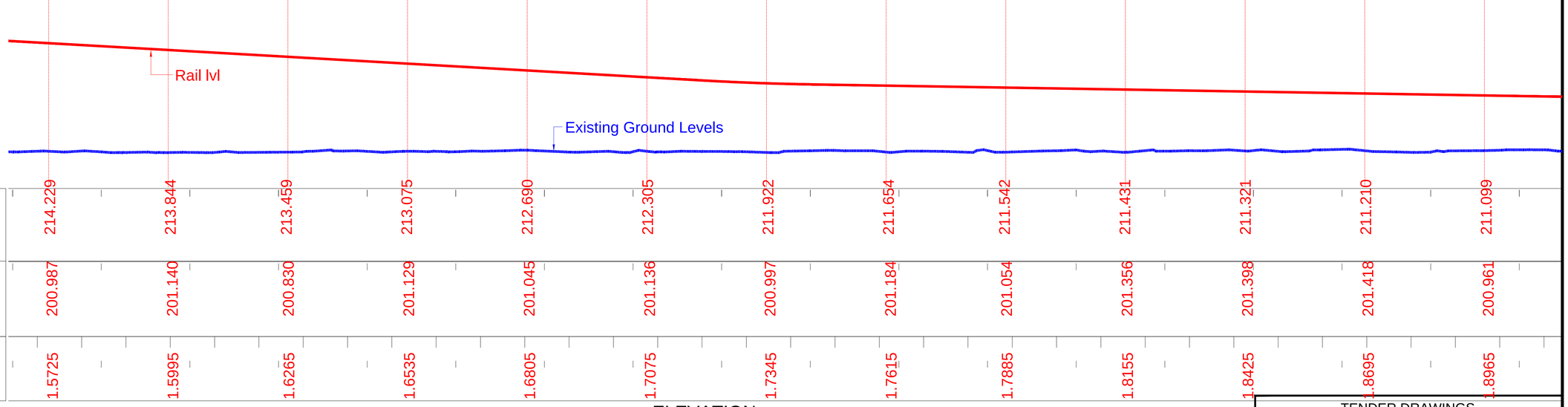
- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER

SL.NO	DESCRIPTION	SYMBOL	SL.NO	DESCRIPTION	SYMBOL	SL.NO	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge	BRIDGE	29	U.P. Pwr. Co. Ltd.	UPPCL 33KV
2	Boundary Wall	BWALL	16	Bus Stop	BStop	30	Signal Post	SIGNAL
3	Footpath	FOOTPATH	17	Fly Over	FLY OVER	31	Control Point	CP
4	Fence	FENCE	18	Water Pipeline	WATER PIPELINE	32	Tree	TREE
5	Electric Line	EL	19	Drain Hole	DH	33	Indraprastha G. Ltd.	IGL
6	POND	POND	20	Man Hole	MH	34	Well	WELL
7	Drain	DRAIN	21	Lamp Post	LP	35	Culvert	CULVERT
8	Nala	NALA	22	Optical F.Cable	OFC	36	Junction Box	JB
9	PARK/GREEN	PARK	23	Vodafone OFC	VDP	37	Electric Pole	EP
10	Building	BUILD	24	Transformer	TF	38	Bore Hole	BH
11	Shop	SHOP	25	Airtel OFC	AIRTEL	39	Sign Board	SB
12	Shed	SHED	26	Flood Light	FL	40	Tree No.	STN
13	Temple	TMPL	27	Km Stone	KMS	41	Gtr.N.Ind.Dvlp.Athty.	GNIDA
14	Gate		28	Handpump	HP	42	Noida Pwr.Co.Ltd.	P100



ELEVATION

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ARRANGEMENT DRAWING

SCALE

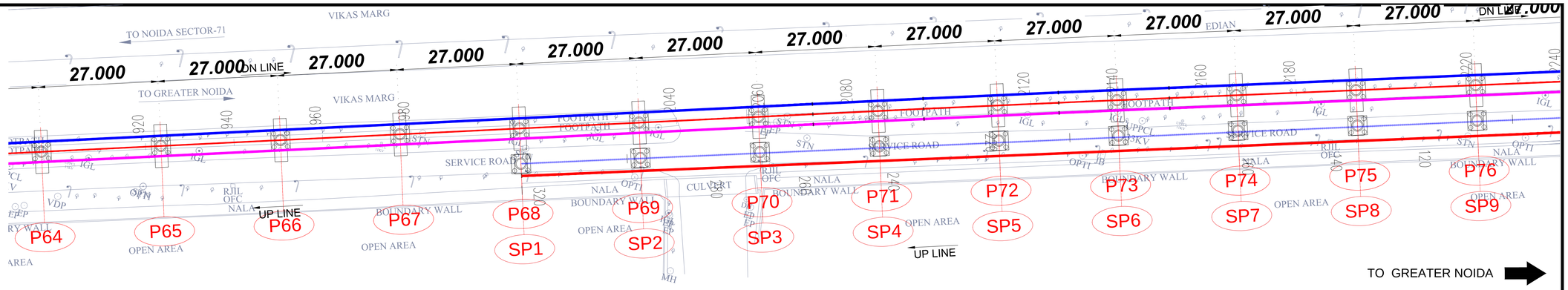
DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA



LEGEND

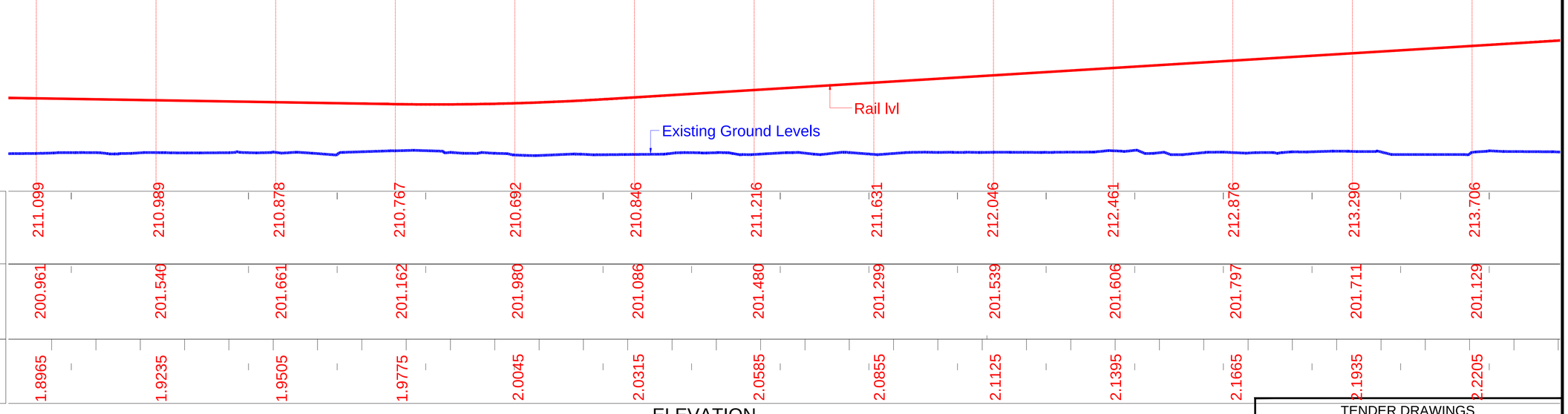
- TRACK CENTRE

Ls	-	LENGTH OF SPIRAL
Lc	-	CIRCULAR CURVE LENGTH
VCL	-	VERTICAL CURVE LENGTH
R	-	RADIUS
G	-	GRADIENT
L	-	LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge		29	U. P. Pwr. Co. Ltd.	UPPCL
2	Boundary Wall		16	Bus Stop	BSTOP	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	STN
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Indraprastha G. Ltd.	IGL
6	POND	POND	20	Man Hole	MH	34	Well	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala	NALA	22	Optical F-Cable	OFC	36	Junction Box	JB
9	PARK/GREEN		23	Vodafone OFC		37	Electric Pole	
10	Building	BLDG	24	Transformer		38	Spare Hole	
11	Shop	SHOP	25	Air Valve	AV	39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree Row	
13	Temple	TMPL	27	Km Stone		41	Str.Lmd.Dvlp.Athty.	
14	Gate		28	Handpump	HP	42	Noida Pwr.Co.Ltd.	



Rail lvl	211.099	210.989	210.878	210.767	210.692	210.846	211.216	211.631	212.046	212.461	212.876	213.290	213.706
Existing Ground Levels	200.961	201.540	201.661	201.162	201.980	201.086	201.480	201.299	201.539	201.606	201.797	201.711	201.129
CHAINAGE	1.8965	1.9235	1.9505	1.9775	2.0045	2.0315	2.0585	2.0855	2.1125	2.1395	2.1665	2.1935	2.2205

ELEVATION

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ARRANGEMENT DRAWING

SCALE

DATE
MAY-21

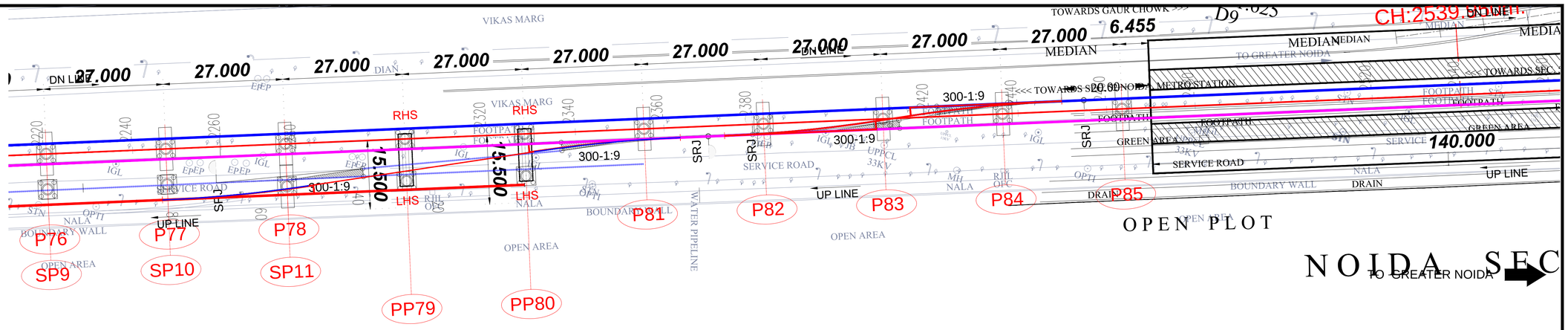
REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TOWARDS GAUR CHOWK >>>>

CH:2539.000



LEGEND

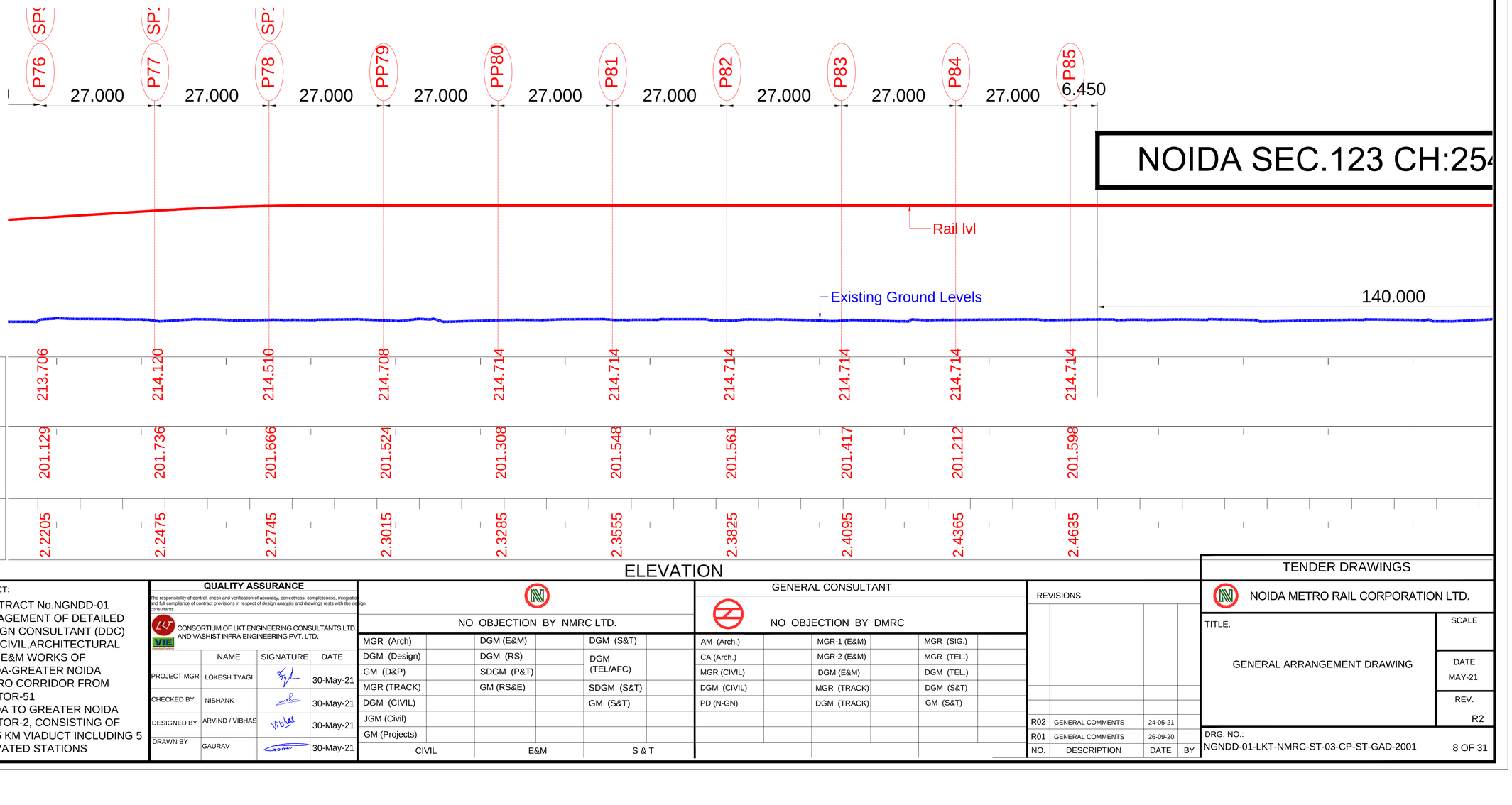
- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER

SL.NO	DESCRIPTION	SYMBOL	SL.NO	DESCRIPTION	SYMBOL	SL.NO	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge	BRIDGE	29	U. P. Pwr. Co. Ltd.	UPPCL
2	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	STN
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Main Hole	MH	33	Indraprastha G. Ltd.	
6	POND	POND	20	Man Hole	MH	34	Water	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Optical F-Cable		36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC	VFP	37	Electric Pole	
10	Building	BUILD.	24	Transformer		38	Bore Hole	
11	Shop	SHOP	25	Airtel OFC	AIRTEL	39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No.	
13	Temple	TMPL	27	Km Stone		41	Gtr.Nd.Ind.Dvlp.Athty.	
14	Gate		28	Handpump		42	Noida.Pwr.Co.Ltd.	



ELEVATION

NOIDA SEC.123 CH:254

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ i k t e n g i n e e r i n g . c o m

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

GENERAL ARRANGEMENT DRAWING

SCALE

DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

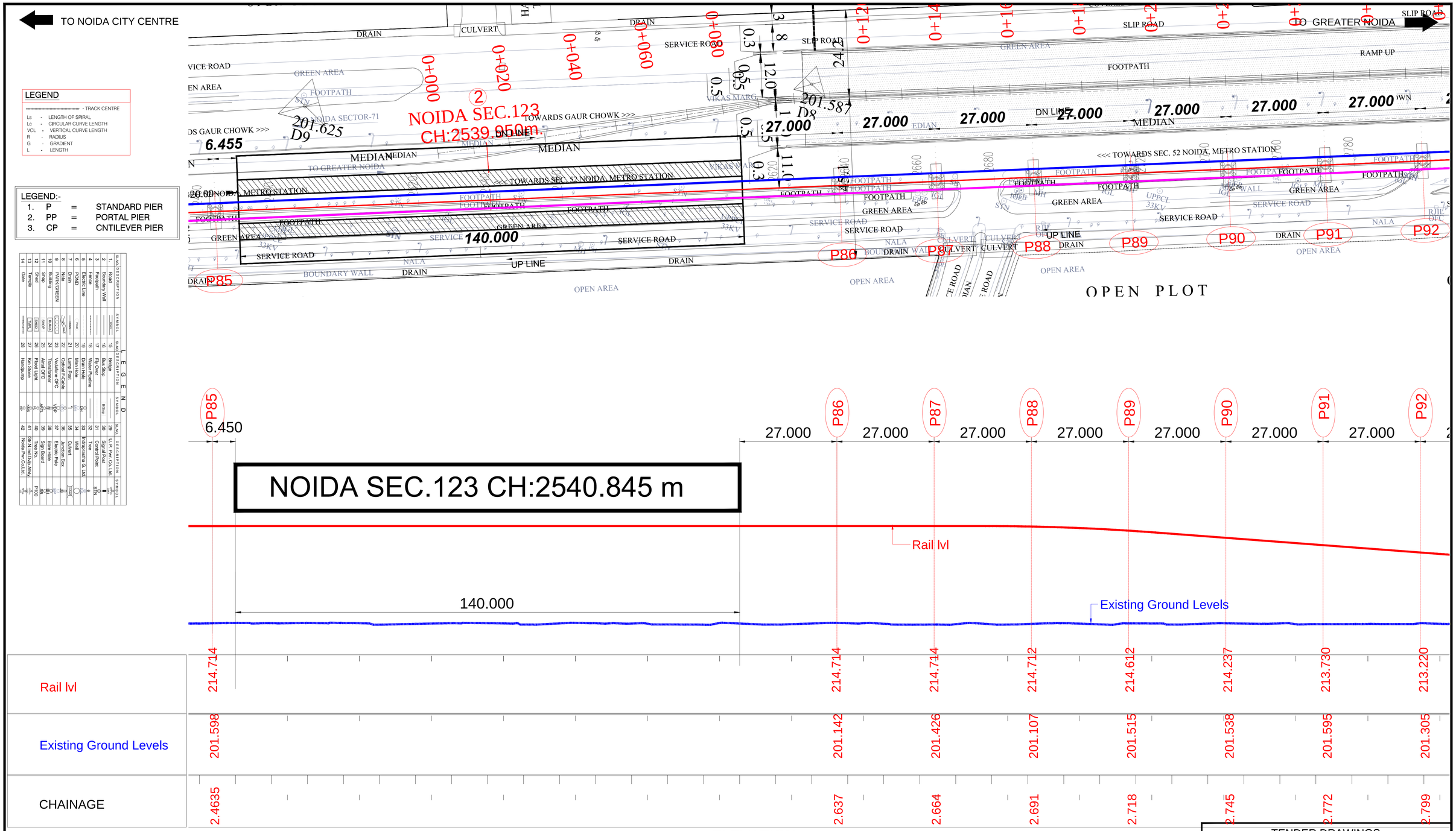
- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road		15	Bridge		29	U.P. Pwr. Co. Ltd.	
2	Boundary Wall		16	Bus Stop		30	Signal Post	
3	Hedge		17	Hut / Kiosk		31	Control Point	
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole		33	Indraprastha G. Ltd.	
6	POND		20	Man Hole		34	Well	
7	Drain		21	Lamp Post		35	Culvert	
8	Pipe		22	Overhead Tank		36	Jn. Box	
9	PARK/GREEN		23	Vodafone OFC		37	Electric Pole	
10	Building		24	Transformer		38	Bore Hole	
11	Shop		25	Airtel OFC		39	Sign Board	
12	Shed		26	Flood Light		40	Tree No.	
13	Temple		27	Km Stone		41	Hydrant Post	
14	Gate		28	Hectometre		42	Notice Post	



ELEVATION

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-45565814-18
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS	Vibhas	30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

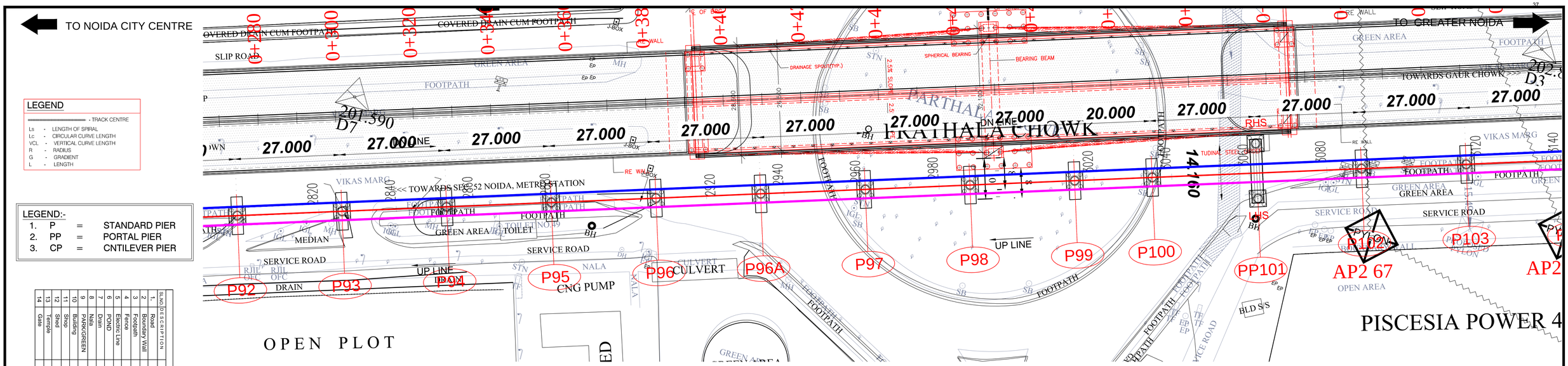
TITLE:
GENERAL ARRANGEMENT DRAWING

SCALE

DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001



LEGEND

- TRACK CENTRE

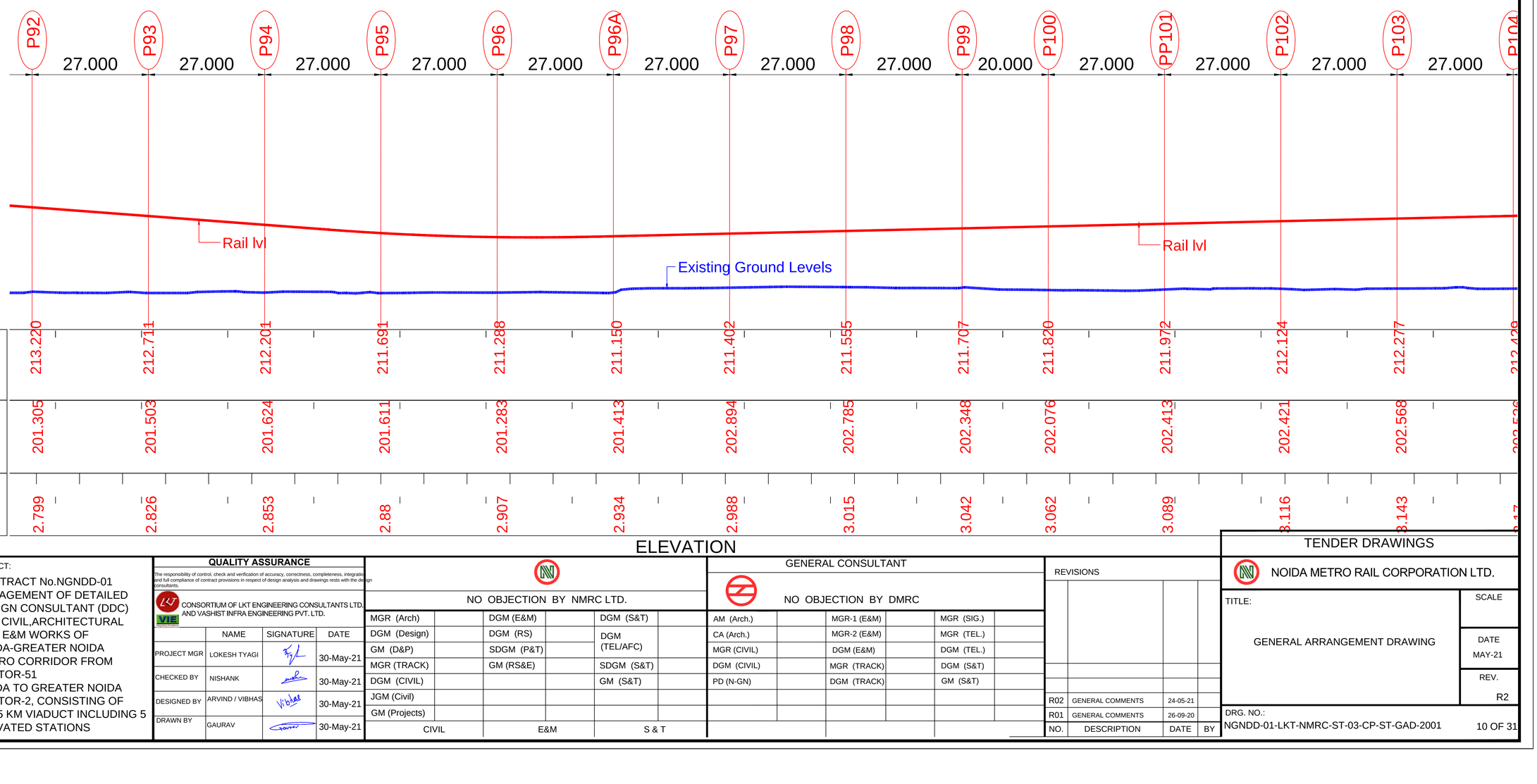
Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER

L E G E N D

SL.NO	DESCRIPTION	SYMBOL	SL.NO	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road		15	Bridge		29	U. P. Pwr. Co. Ltd.	
2	Boundary Wall		16	Bus Stop		30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole		33	Indraprastha G. Ltd	
6	POND		20	Man Hole		34	Well	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Optical F-Cable		36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC		37	Electric Pole	
10	Building		24	Transformer		38	Bore Hole	
11	Shop		25	Airtel OFC		39	Sign Board	
12	Shed		26	Flood Light		40	Tree No.	
13	Temple		27	Km Stone		41	Grt.Nind.Dvlp.Athty.	
14	Gate		28	Handpump		42	Noida Pwr.Co.Ltd.	



ELEVATION

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-B-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integratio and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ARRANGEMENT DRAWING

SCALE

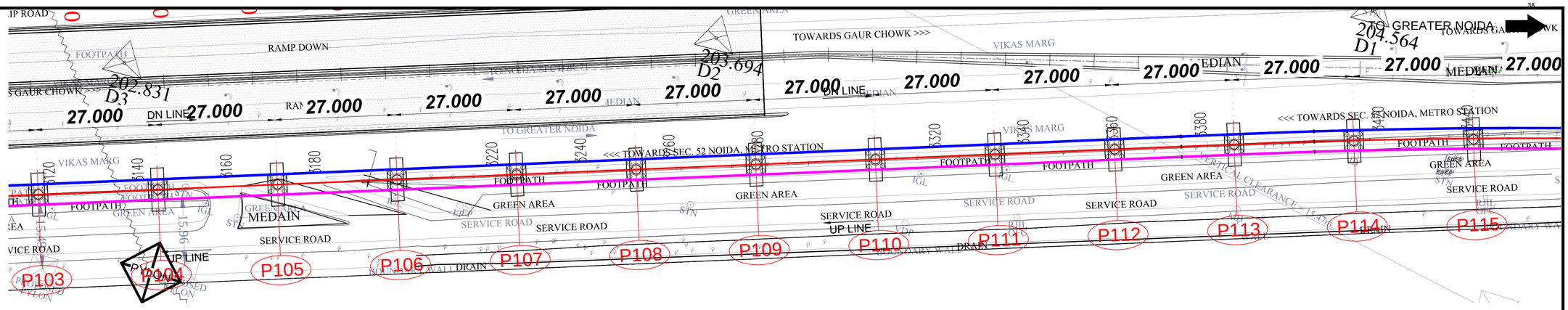
DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA



LEGEND

- TRACK CENTRE

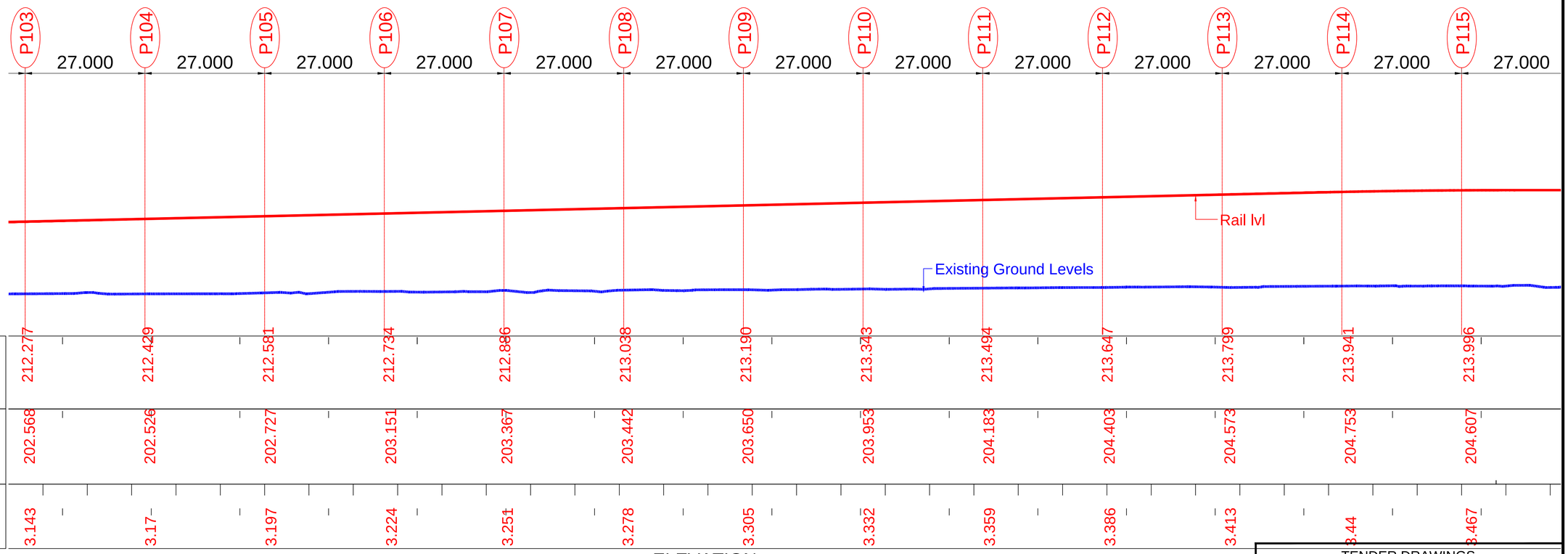
Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER

LEGEND

SL.NO	DESCRIPTION	SYMBOL	SL.NO	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road		15	Bridge		29	U. P. Pwr. Co. Ltd.	
2	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	CP
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole		33	Indraprastha G. Ltd.	
6	POND		20	Man Hole	MH	34	Well	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Optical F-Cable		36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC	VDP	37	Electric Pole	
10	Building		24	Transformer		38	Bore Hole	
11	Shop		25	Airtel OFC		39	Sign Board	
12	Shed		26	Flood Light		40	Tree No.	
13	Temple		27	Km Stone		41	Gtr.N.Ind.Dvlp.Athty.	
14	Gate		28	Handpump		42	Noida Pwr.Co.Ltd.	



Rail lvl

Existing Ground Levels

CHAINAGE

ELEVATION

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integratio and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

GENERAL ARRANGEMENT DRAWING

SCALE

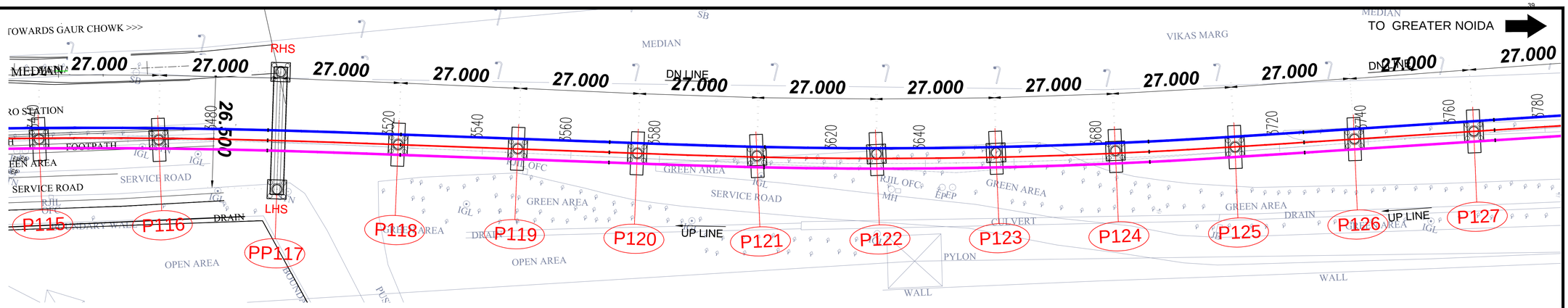
DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA



LEGEND

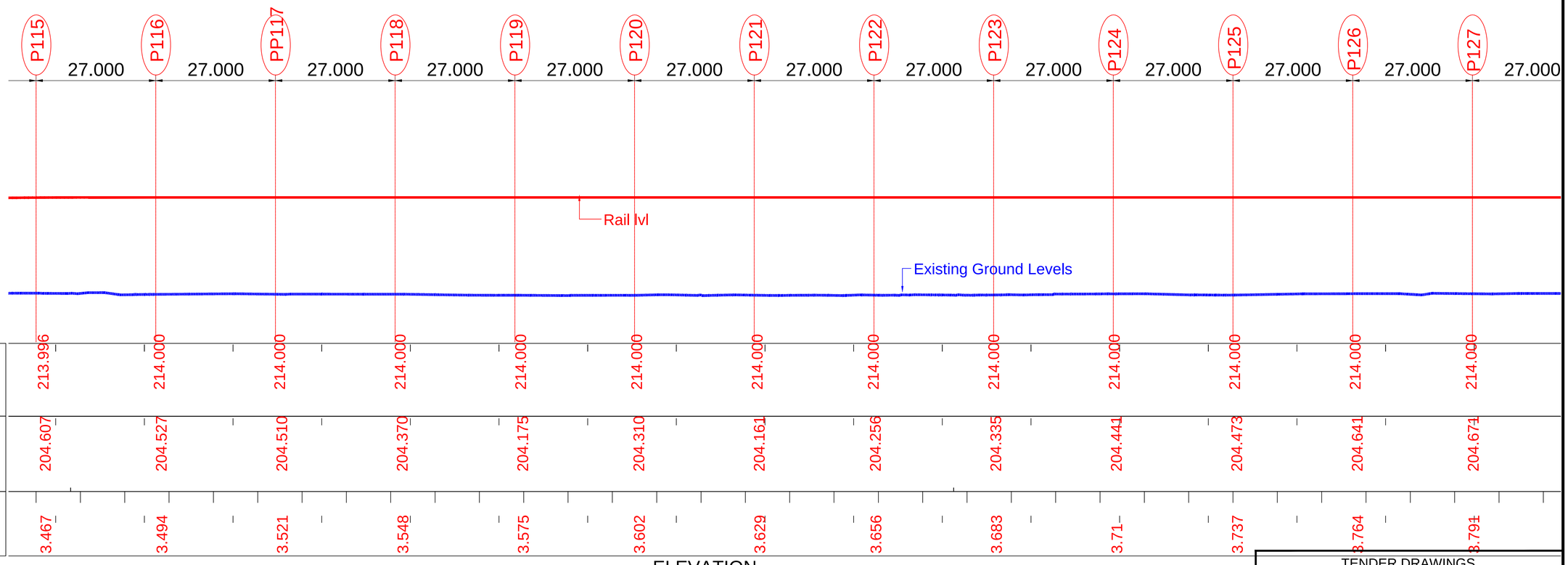
- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER

SL.NO	DESCRIPTION	SYMBOL	SL.NO	DESCRIPTION	SYMBOL
1.	Road		15	Bridge	
2	Boundary Wall		16	Bus Stop	
3	Footpath		17	Fly Over	
4	Fence		18	Water Pipeline	
5	Electric Line		19	Main Hole	
6	POND		20	Main Pole	
7	Drain		21	Optical F.Cable	
8	Nala		22	Voltage OFC	
9	PARK/GREEN		23	Transformer	
10	Building		24	Flood Light	
11	Shop		25	Airtel OFC	
12	Shed		26	Km Stone	
13	Temple		27	Handpump	
14	Gate		28		
29	U. P. Pwr. Co. Ltd.		42	Gtr.N.Int.Dvlp.Athty Noida Pwr.Co.Ltd.	
30	Signal Post		41	Tree No.	P100
31	Control Point		40	Sign Board	
32	Tree		39	Bore Hole	
33	Infopraxiths G. Ltd		38	Electric Pole	
34	Culvert		37	Junction Box	
35	Drain		36	Culvert	
36	Culvert		35	Drain	
37	Electric Box		34	Wall	
38	Bore Hole		33	Infopraxiths G. Ltd	
39	Sign Board		32	Tree	
40	Tree No.		31	Control Point	
41	Gtr.N.Int.Dvlp.Athty		30	Signal Post	
42	Noida Pwr.Co.Ltd.		29	U. P. Pwr. Co. Ltd.	



ELEVATION

TENDER DRAWINGS

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

NOIDA METRO RAIL CORPORATION LTD.

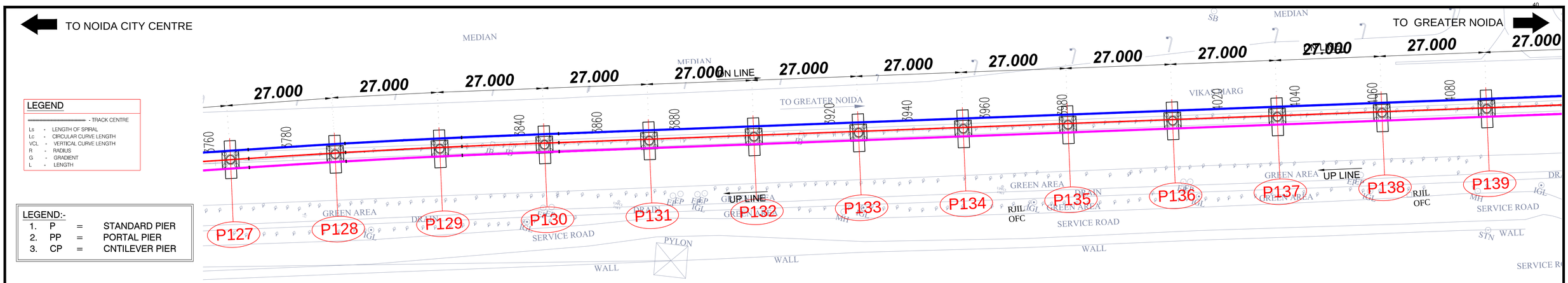
TITLE:
GENERAL ARRANGEMENT DRAWING

SCALE

DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001



LEGEND

- TRACK CENTRE

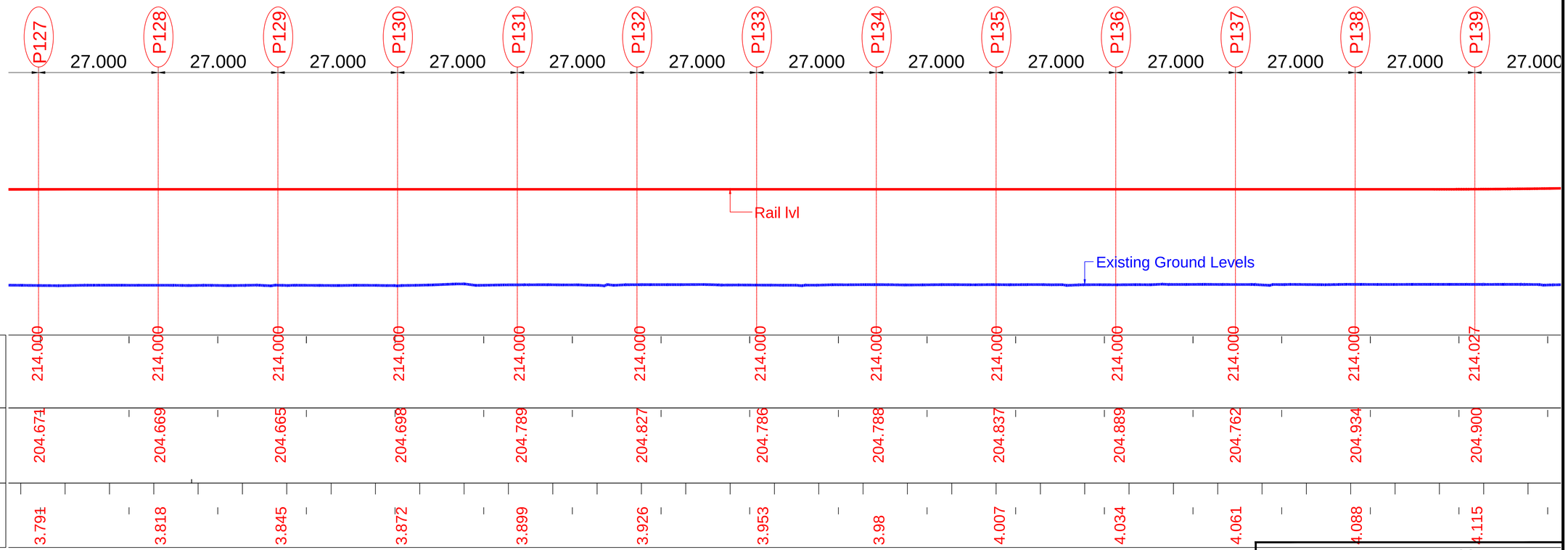
Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER

LEGEND

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road		15	Bridge		29	U. P. Pwr. Co. Ltd.	
2.	Boundary Wall		16	Bus Stop	Bstop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole		33	Indraprastha G. Ltd	
6	POND		20	Main Hole		34	Well	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Optiscil F.Cable		36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC		37	Electric Pole	
10	Building		24	Transformer		38	Bore Hole	
11	Shop		25	Aircel OFC		39	Sign Board	
12	Shed		26	Flood Light		40	Tower	
13	Temple		27	Km Stone		41	Gn.Nda/Dulp.Alth/y	
14	Gate		28	Handpump		42	Noida Pwr.Co.Ltd.	



ELEVATION

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lkteng ineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of correctness, adequacy, workmanship and safety of design & drawings is entirely that of Consultants.

JV OF CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASTU INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS	Vibhas	30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ARRANGEMENT DRAWING

SCALE

DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

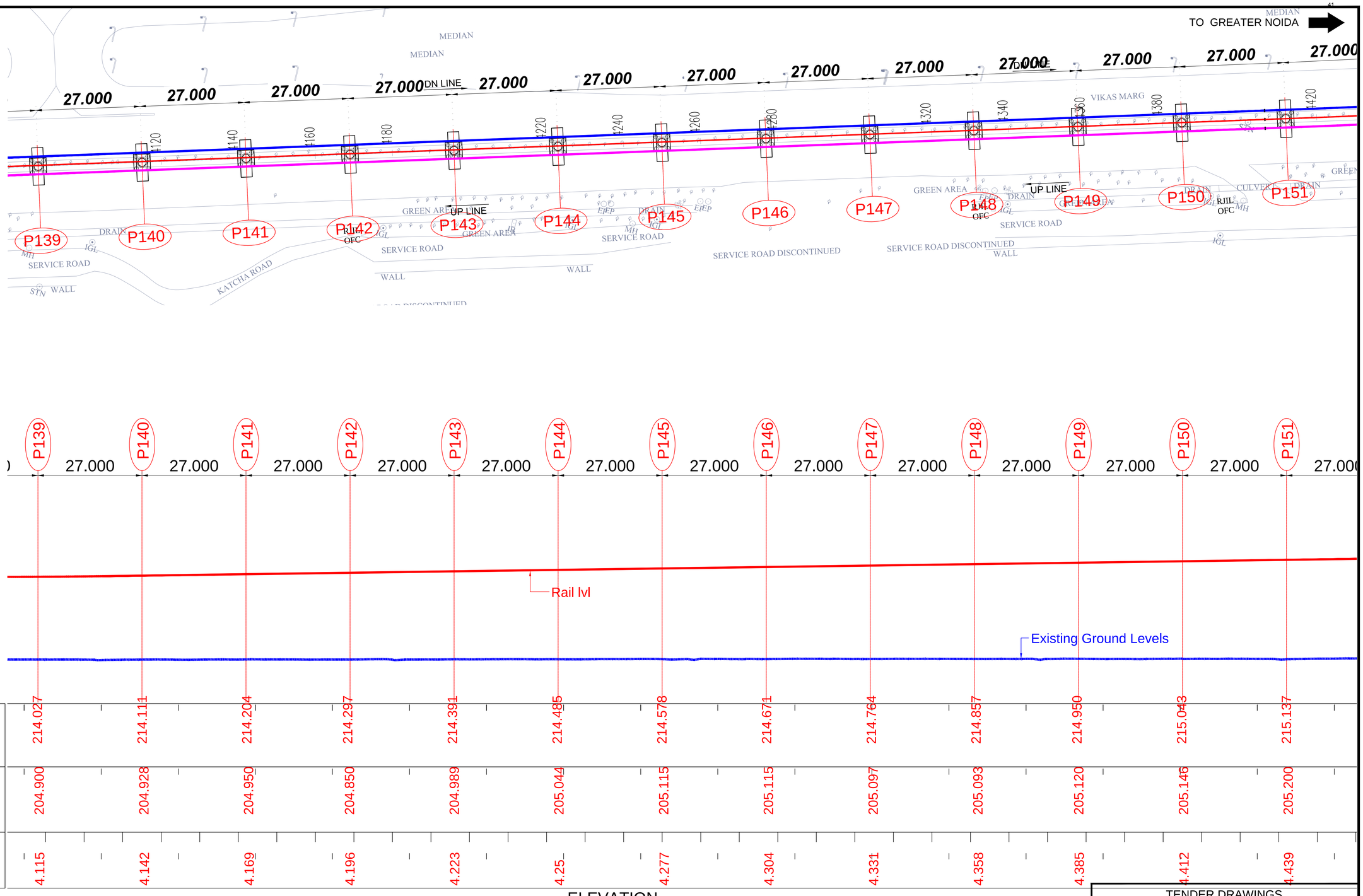
- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER

SL.NO	DESCRIPTION	SYMBOL	SL.NO	DESCRIPTION	SYMBOL	SL.NO	DESCRIPTION	SYMBOL
1.	Road		15	Bridge		29	U.P. Pwr. Co. Ltd.	
2	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole		33	Indraprastha G. Ltd	
6	POND		20	Man Hole		34	Well	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Optical F.Cable		36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC		37	Electric Pole	
10	Building		24	Transformer		38	Bore Hole	
11	Shop		25	Airtel OFC		39	Sign Board	
12	Shed		26	Flood Light		40	Tree No.	
13	Temple		27	Km Stone		41	Gtr.N.Invt.Dvlp.Athty	
14	Gate		28	Handpump		42	Noida Pwr.Co.Ltd.	



Rail lvl	214.027	214.111	214.204	214.297	214.391	214.485	214.578	214.671	214.764	214.857	214.950	215.043	215.137
Existing Ground Levels	204.900	204.928	204.950	204.850	204.989	205.044	205.115	205.115	205.097	205.093	205.120	205.146	205.200
CHAINAGE	4.115	4.142	4.169	4.196	4.223	4.25	4.277	4.304	4.331	4.358	4.385	4.412	4.439

ELEVATION

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ARRANGEMENT DRAWING

SCALE

DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA

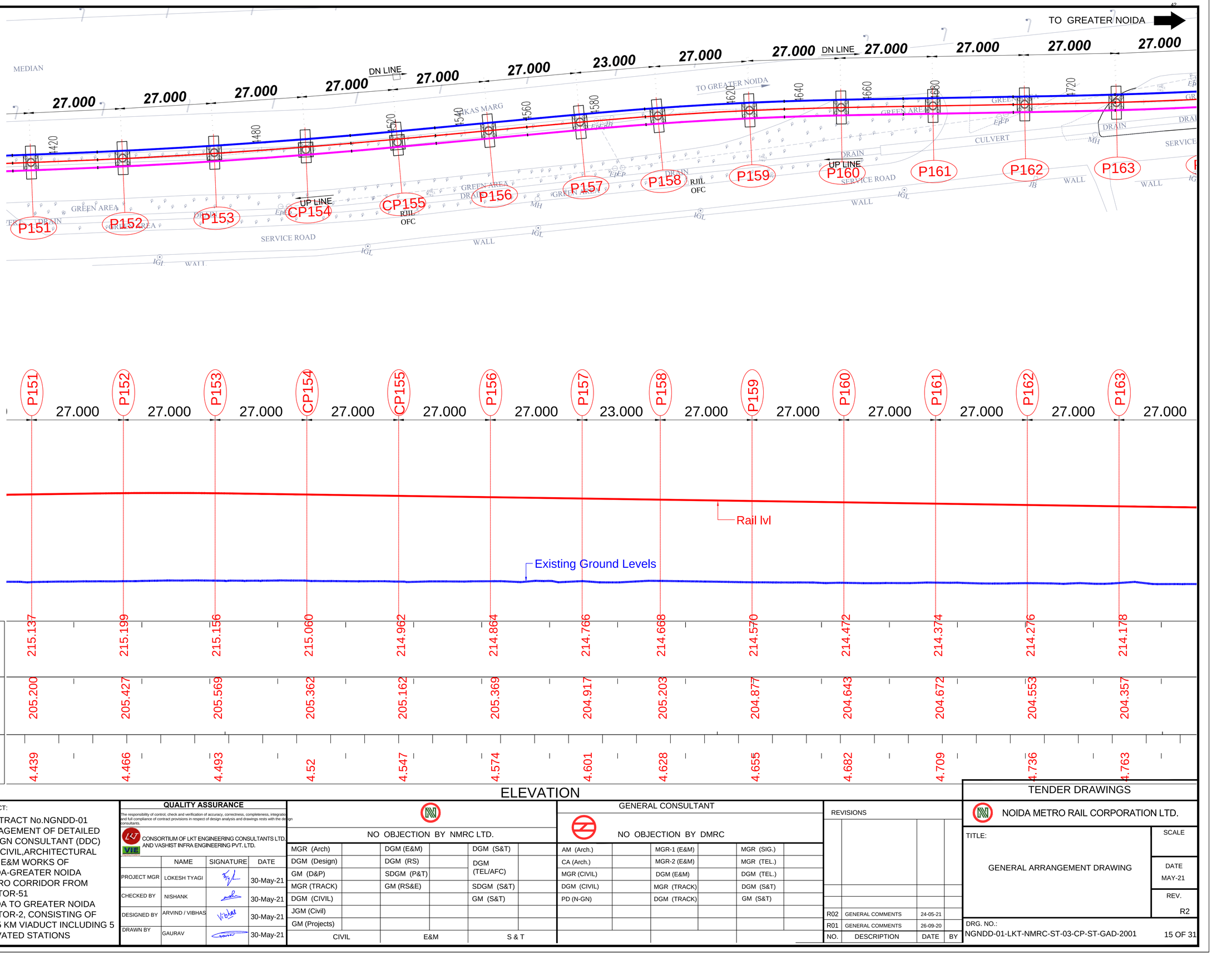
LEGEND

- TRACK CENTRE
- Ls - LENGTH OF SPIRAL
- Lc - CIRCULAR CURVE LENGTH
- VCL - VERTICAL CURVE LENGTH
- R - RADIUS
- G - GRADIENT
- L - LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road		15	Bridge		29	U.P. Pwr. Co. Ltd.	
2	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	CTRL
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Indraprastha G. Ltd	
6	POND	POND	20	Man Hole	MH	34	Well	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Optical F-Cable	OC	36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC	VOF	37	Electric Pole	
10	Building	BUILD	24	Transformer		38	Bore Hole	
11	Shop	SHOP	25	Airtel OFC	AIRTL	39	Sign Board	
12	Shed	SHED	26	Flood Light	FL	40	Tree No.	
13	Temple	TEMPL	27	Km Stone	KMS	41	Gtr.N.Ind.Dvlp.Athrty	
14	Gate		28	Handpump	HP	42	Noida-Pwr.Co.Ltd.	



	P151	P152	P153	CP154	CP155	P156	P157	P158	P159	P160	P161	P162	P163
	27.000	27.000	27.000	27.000	27.000	27.000	23.000	27.000	27.000	27.000	27.000	27.000	27.000
Rail lvl	215.137	215.199	215.156	215.060	214.962	214.864	214.766	214.668	214.570	214.472	214.374	214.276	214.178
Existing Ground Levels	205.200	205.427	205.569	205.362	205.162	205.369	204.917	205.203	204.877	204.643	204.672	204.553	204.357
CHAINAGE	4.439	4.466	4.493	4.52	4.547	4.574	4.601	4.628	4.655	4.682	4.709	4.736	4.763

ELEVATION

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-45 56 58 14 - 18
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integratio and full compliance of contract provisions in respect of design analysis and drawings rests with the de consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ARRANGEMENT DRAWING

SCALE

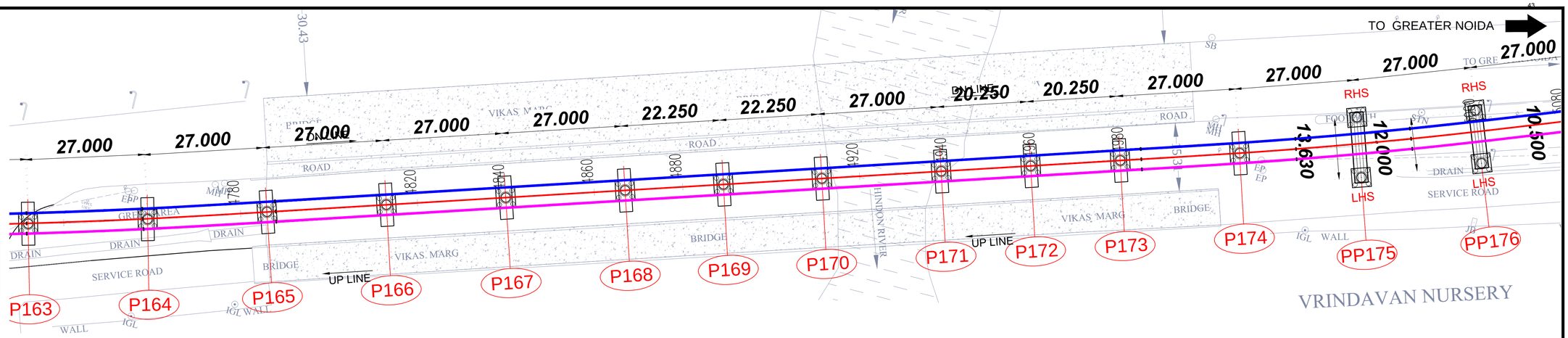
DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA



LEGEND

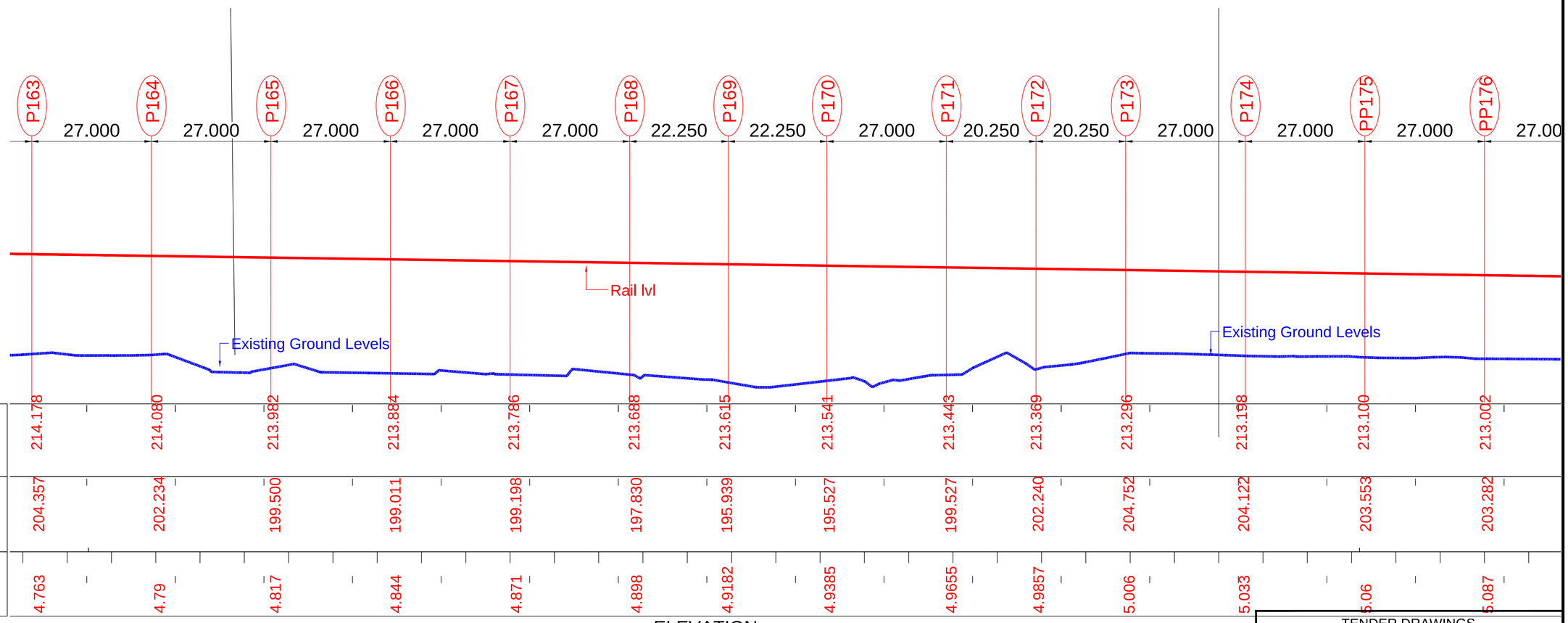
- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER

SL.NO	DESCRIPTION	SYMBOL	SL.NO	DESCRIPTION	SYMBOL	SL.NO	DESCRIPTION	SYMBOL
1.	Road		15	Bridge		29	U.P. Pwr. Co. Ltd.	
2	Boundary Wall		16	Bus Stop		30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	STN
4	Fence		18	Water Pipeline		32	Inderprastha G. Ltd	
5	Electric Line		19	Gas Line		33	Well	
6	POND		20	Man Hole		34	Culvert	
7	Drain		21	Hand Pump		35	Junction Box	
8	Nala		22	Optical F.Cable		36	Electric Pole	
9	PARK/GREEN		23	Vodafone OFC		37	Bore Hole	
10	Building		24	Transformer		38	Sign Board	
11	Shop		25	Airtel OFC		39	Tree No.	
12	Shed		26	Flood Light		40	Grt.N.Hot.Dvlp.Athrty	
13	Temple		27	Km.Stone		41	Noida Pwr.Co.Ltd.	
14	Gate		28	Handpump		42	Noida Pwr.Co.Ltd.	



ELEVATION

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-9-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ARRANGEMENT DRAWING

SCALE

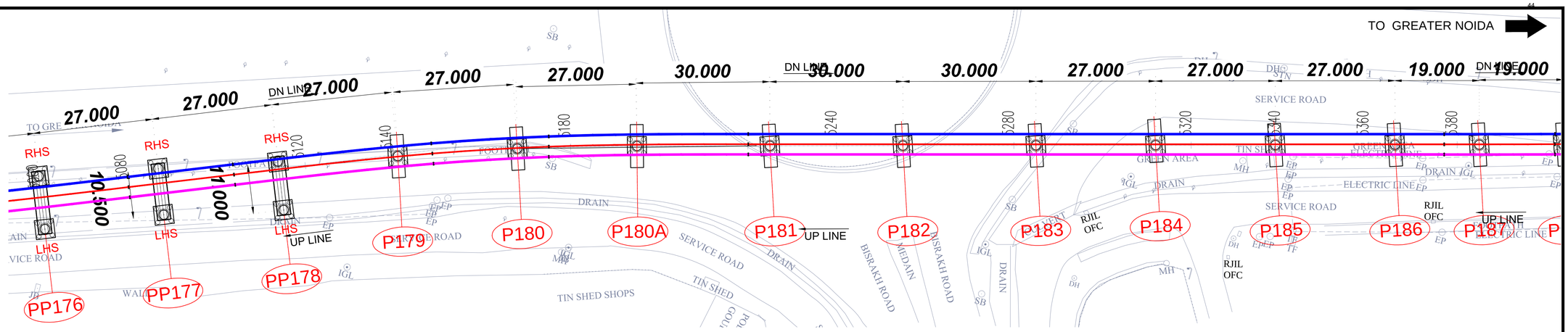
DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA



LEGEND

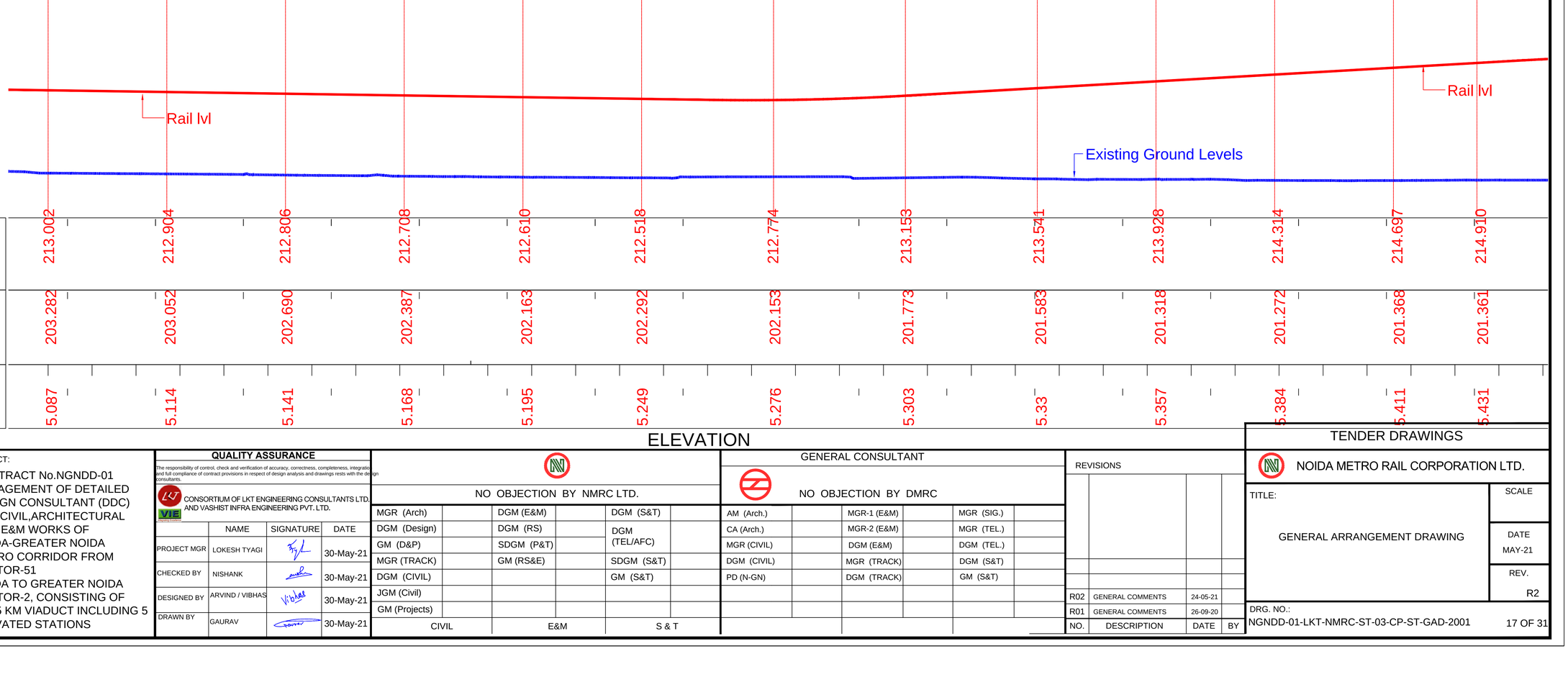
- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER

SL.NO	DESCRIPTION	SYMBOL	SL.NO	DESCRIPTION	SYMBOL	SL.NO	DESCRIPTION	SYMBOL
1.	Road		15	Bridge		29	U. P. Pwr. Co. Ltd.	
2	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole		33	Indraprastha G. Ltd	
6	POND		20	Man Hole		34	Wall	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Optical F-Cable		36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC		37	Electric Pole	
10	Building		24	Transformer		38	Bore Hole	
11	Shop		25	Airtel OFC		39	Sign Board	
12	Shed		26	Flood Light		40	Tree No.	
13	Temple		27	Km Stone		41	Gtr.N.Ind.Dvlp.Athty.	
14	Gate		28	Handpump		42	Noida.Pwr.Co.Ltd.	



ELEVATION

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 6 5 8 1 4 - 1 8
info@lkteng ineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ARRANGEMENT DRAWING

SCALE

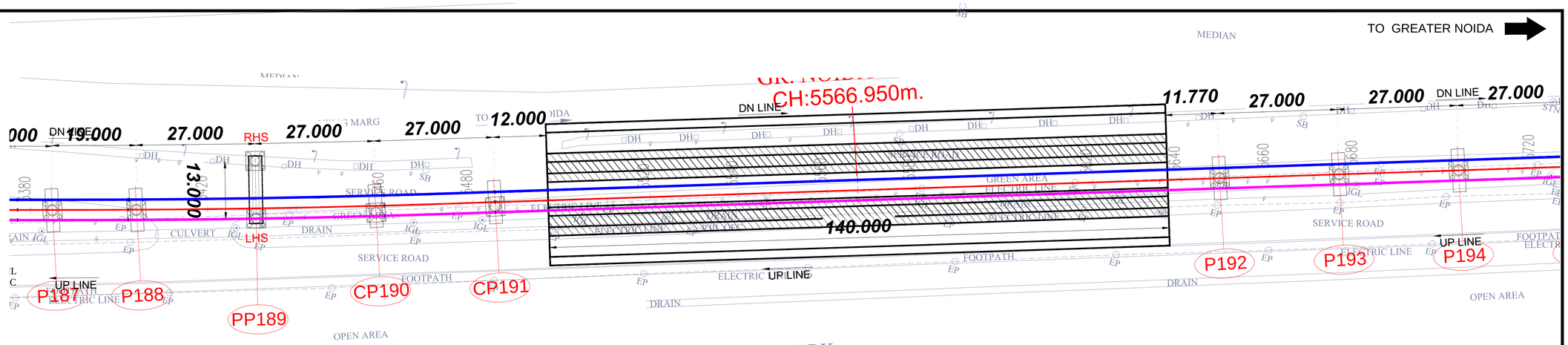
DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA



LEGEND

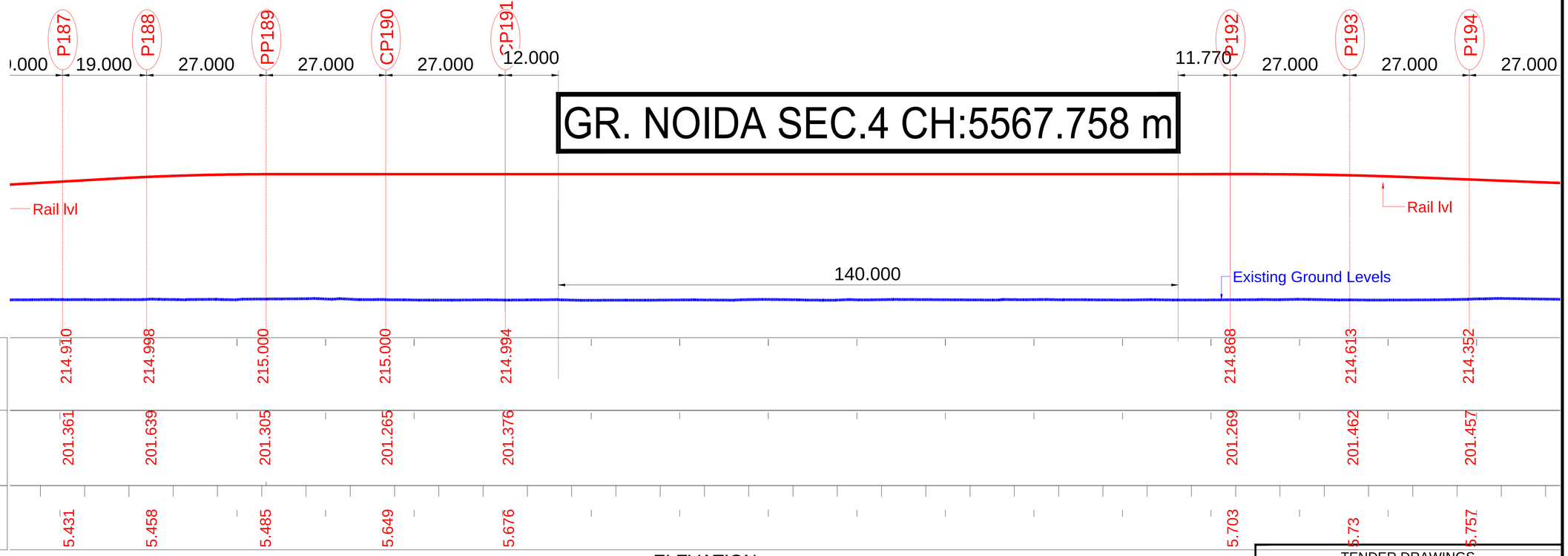
- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER

SL.NO	DESCRIPTION	SYMBOL
1.	Road	ROAD
2	Boundary Wall	
3	Footpath	
4	Electric Line	
5	POND	POND
6	Drain	
7	Nala	
8	PARK/GREEN	
9	Building	BUILD.
10	Shop	SHOP
11	Shed	SHED
12	Temple	TMPL
13	Gate	
14	Handpump	
15	Bridge	BRDG
16	Bus Stop	BSTOP
17	Fly Over	
18	Water Pipeline	
19	Manhole	MH
20	Main Pole	
21	Lamp Post	
22	Optical F-Cable	
23	Vodafone OFC	
24	Transformer	TP
25	Airtel OFC	AIRTEL
26	Flood Light	
27	Km Stone	KMS
28	Hydrant	HYD
29	U.P.Pwr. Co. Ltd.	
30	Signal Post	
31	Control Point	
32	Tree	
33	Hindustantha G. Ltd.	
34	Well	
35	Culvert	
36	Junction Box	
37	Electric Pole	
38	Bore Hole	
39	Sign Board	
40	Tree No.	
41	Gtr.N.Ind.Dvlp.Athty.	
42	Noida Pwr.Co.Ltd.	



ELEVATION

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-R-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ARRANGEMENT DRAWING

SCALE

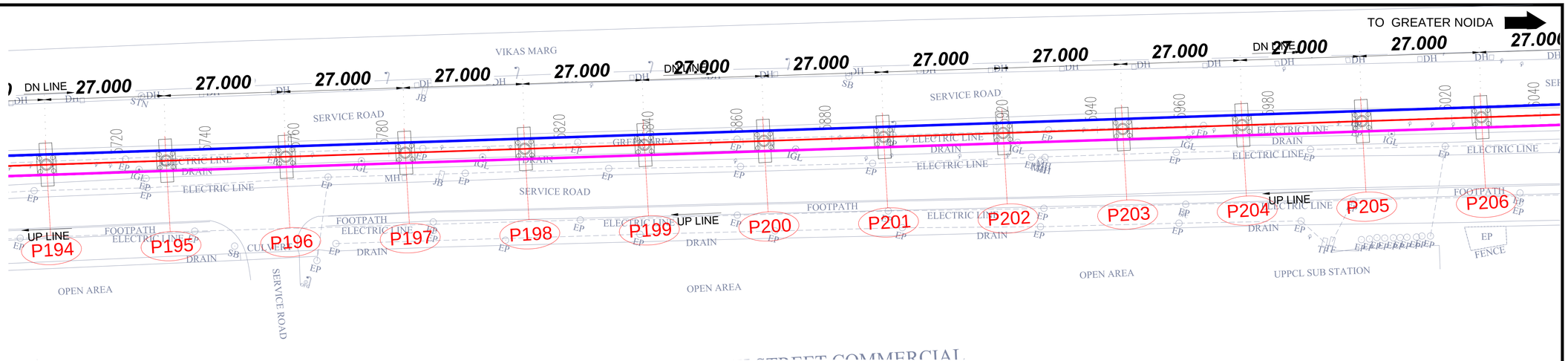
DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA



LEGEND

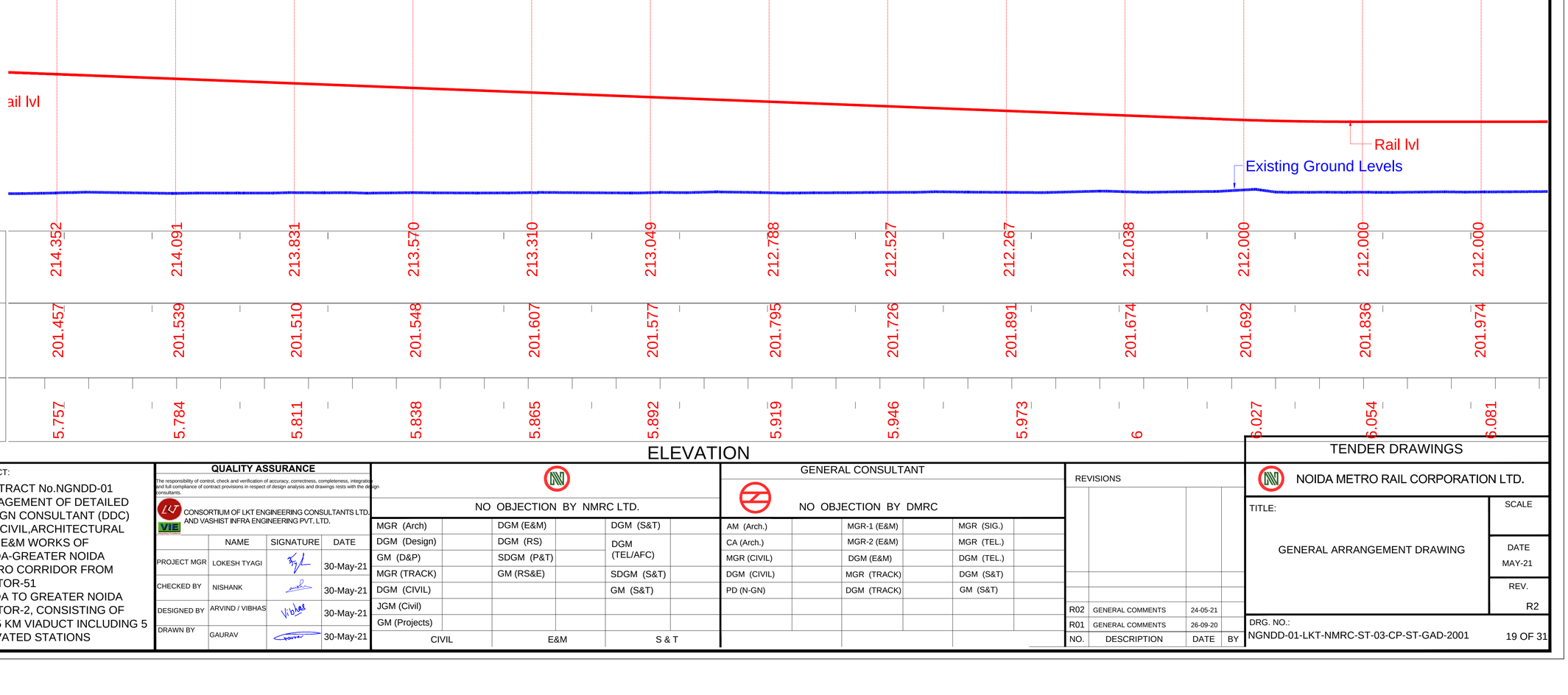
- TRACK CENTRE

Ls	-	LENGTH OF SPIRAL
Lc	-	CIRCULAR CURVE LENGTH
VCL	-	VERTICAL CURVE LENGTH
R	-	RADIUS
G	-	GRADIENT
L	-	LENGTH

LEGEND:-

1.	P	=	STANDARD PIER
2.	PP	=	PORTAL PIER
3.	CP	=	CNTILEVER PIER

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge	Bridge	29	U.P. Pwr. Co. Ltd.	UPPC
2	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Post	
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Indraprastha G. Ltd.	
6	POND	POND	20	Man Hole	MH	34	Well	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Optical F-Cable		36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC		37	Electric Pole	
10	Building	BUILD	24	Transformer		38	Bore Hole	
11	Shop	SHOP	25	Airtel OFC		39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No.	
13	Temple	TMPL	27	Km Stone		41	Gr.N.Hrd.Dvlp.Athty.	
14	Gate		28	Handpump		42	Noida Pwr.Co.Ltd.	



Rail lvl	214.352	214.091	213.831	213.570	213.310	213.049	212.788	212.527	212.267	212.038	212.000	212.000
Existing Ground Levels	201.457	201.539	201.510	201.548	201.607	201.577	201.795	201.726	201.891	201.674	201.692	201.836	201.974
CHAINAGE	5.757	5.784	5.811	5.838	5.865	5.892	5.919	5.946	5.973	6	6.027	6.054	6.081

ELEVATION

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

GENERAL ARRANGEMENT DRAWING

SCALE

DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA

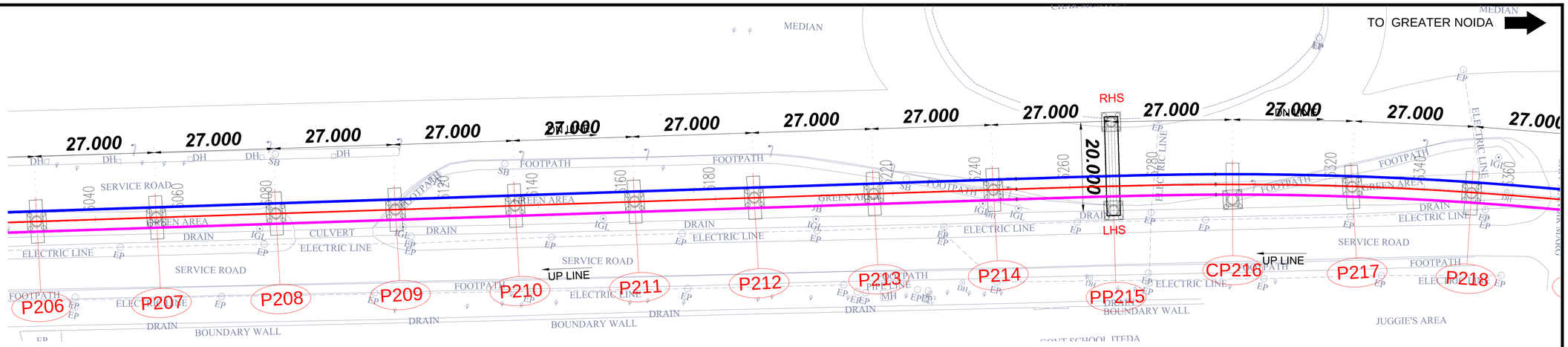
LEGEND

---------- - TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

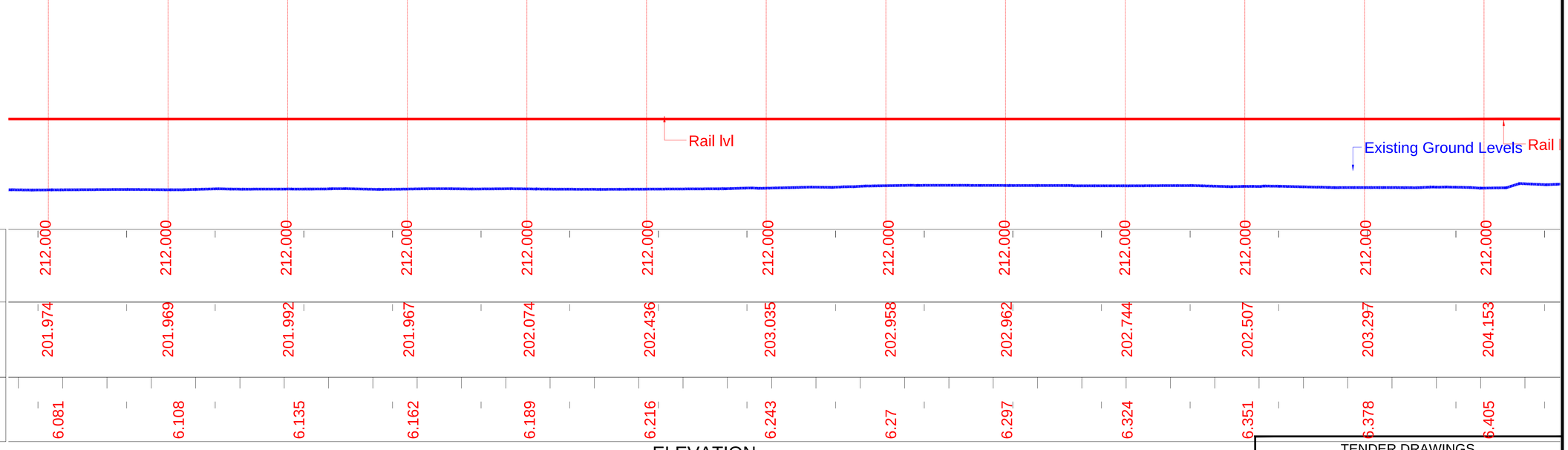
1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER



SL.NO.	DESCRIPTION	SYMBOL
1.	Road	ROAD
2	Boundary Wall	
3	Footpath	
4	Fence	
5	Electric Line	
6	POND	Pond
7	Drain	
8	Nala	
9	PARK/GREEN	
10	Building	BUILD
11	Shop	SHOP
12	Shed	SHED
13	Temple	TMPL
14	Gate	

SL.NO.	DESCRIPTION	SYMBOL
15	Bridge	
16	Bus Stop	BStop
17	Fly Over	
18	Water Pipeline	
19	Drain Hole	DH
20	Man Hole	MH
21	Light Pole	
22	Optical F.Cable	
23	Vodafone OFC	
24	Transformer	TP
25	Airtel OFC	
26	Flood Light	
27	Km Stone	
28	Handpump	

SL.NO.	DESCRIPTION	SYMBOL
29	U.P. Pwr. Co. Ltd.	
30	Signal Post	
31	Control Point	STN.
32	Tree	
33	Reliance G. Ltd.	
34	Valve	
35	Culvert	
36	Junction Box	
37	Electric Pole	
38	Bore Hole	
39	Sign Board	
40	Tree No.	P100
41	Gtr.N.Ind.Dvlp.Athrty.	
42	Noida Pwr Co.Ltd.	



ELEVATION

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ARRANGEMENT DRAWING

SCALE

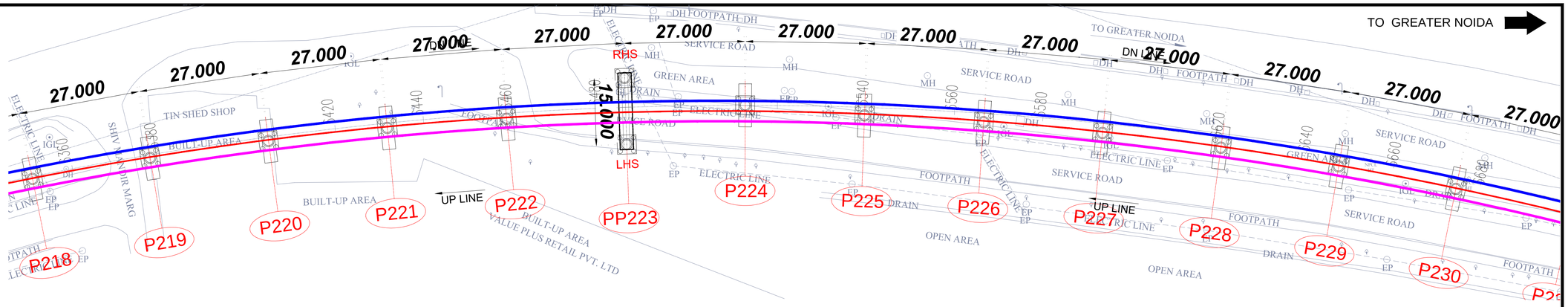
DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA



LEGEND

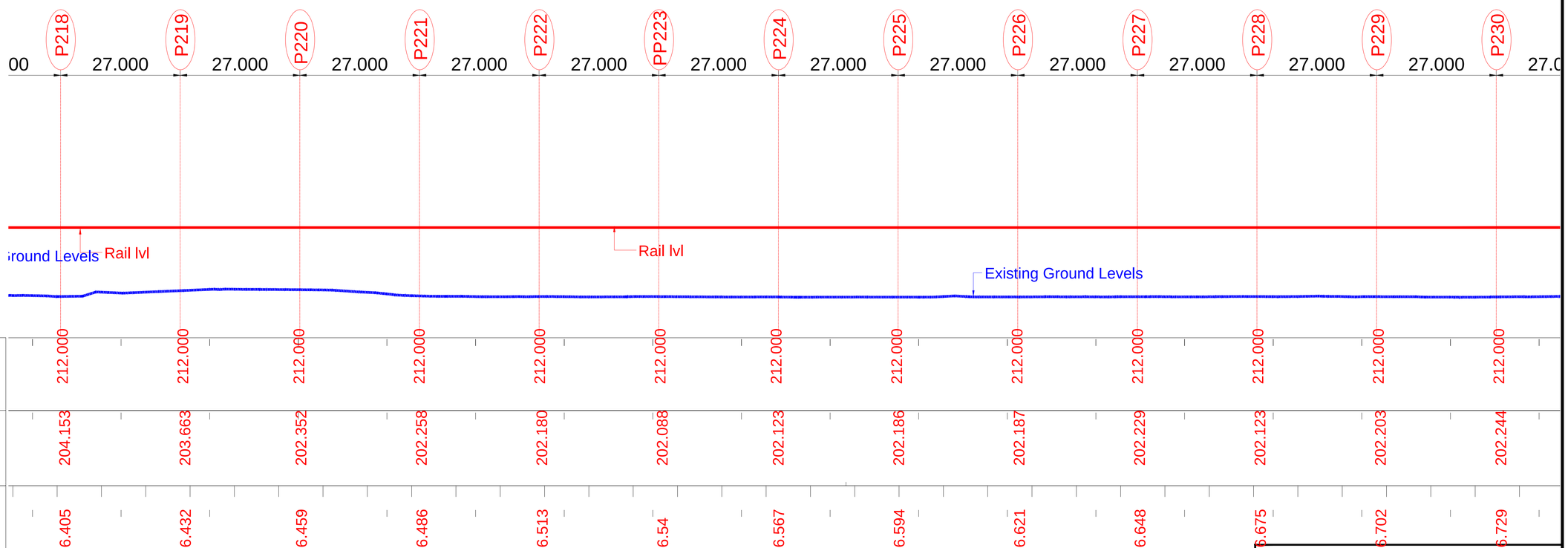
- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge		29	U.P. Pwr. Co. Ltd.	
2	Boundary Wall		16	Bus Stop	BSStop	30	Signal Post	SIGN
3	Footpath		17	Fly Over		31	Control Point	
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Indraprastha G. Ltd.	
6	POND	POND	20	Man Hole	MH	34	Well	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Optical F-Cable		36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC	VDF	37	Electric Pole	
10	Building	BUILD	24	Transformer	TF	38	Bore Hole	
11	Shop	SHOP	25	Airtel OFC	AIRTEL	39	Sign Board	
12	Shed	SHED	26	Flood Light	FL	40	Grt.Noi.Dvlp.Athty.	
13	Temple	TEMPL	27	Km Stone	KMS	41	Tree No.	P100
14	Gate		28	Handpump	HP	42	Noida Pwr.Co.Ltd.	



ELEVATION

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

GENERAL ARRANGEMENT DRAWING

SCALE

DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA

VIKAS MARG

DN LINE

UP LINE

SERVICE ROAD

FOOTPATH

DRAIN

GREEN AREA

OPEN AREA

ELECTRIC LINE

P230 P231 P232 P233 P234 P235 P236 P237 P238 P239 P240 P241 P242

LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER

SL.NO.	DESCRIPTION	SYMBOL
1.	Road	ROAD
2	Boundary Wall	BOW
3	Footpath	
4	Fence	
5	Electric Line	
6	POND	POND
7	Drain	DRAIN
8	Nala	NALA
9	PARK/GREEN	
10	Building	BUILD
11	Shop	SHOP
12	Shed	SHED
13	Temple	TMPL
14	Gate	

SL.NO.	DESCRIPTION	SYMBOL
15	Bridge	BRIDGE
16	Bus Stop	BStop
17	Fly Over	
18	Water Pipeline	
19	Drain Hole	DH
20	Man Hole	MH
21	Lamp Post	LP
22	Optical F.Cable	OFC
23	Vodafone OFC	VOF
24	Transformer	TF
25	Airtel OFC	AIRTL
26	Flood Light	FL
27	Km Stone	KMSt
28	Handpump	HP

SL.NO.	DESCRIPTION	SYMBOL
29	U. P. Pwr. Co. Ltd.	UPPC
30	Signal Post	SP
31	Control Point	CTPL
32	Tree	
33	Indraprastha G. Ltd.	IGL
34	Well	WELL
35	Culvert	Culvert
36	Junction Box	JB
37	Electric Pole	EP
38	Bore Hole	BH
39	Sign Board	SB
40	Tree No.	P100
41	Grt.N.Ind.Dvlp.Athty.	GNIDA
42	Noida Pwr.Co.Ltd.	NPCL

Rail lvl

Existing Ground Levels

CHAINAGE

Rail lvl	212.000	212.000	212.000	212.000	212.000	212.000	212.000	212.000	212.000	212.000	212.000	212.000	212.000
Existing Ground Levels	202.244	202.205	202.271	202.162	202.370	202.272	202.340	202.277	202.418	202.435	202.570	202.511	202.542
CHAINAGE	6.729	6.756	6.783	6.81	6.837	6.864	6.891	6.918	6.945	6.972	6.999	7.026	7.053

ELEVATION

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS	Vibhas	30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ARRANGEMENT DRAWING

SCALE

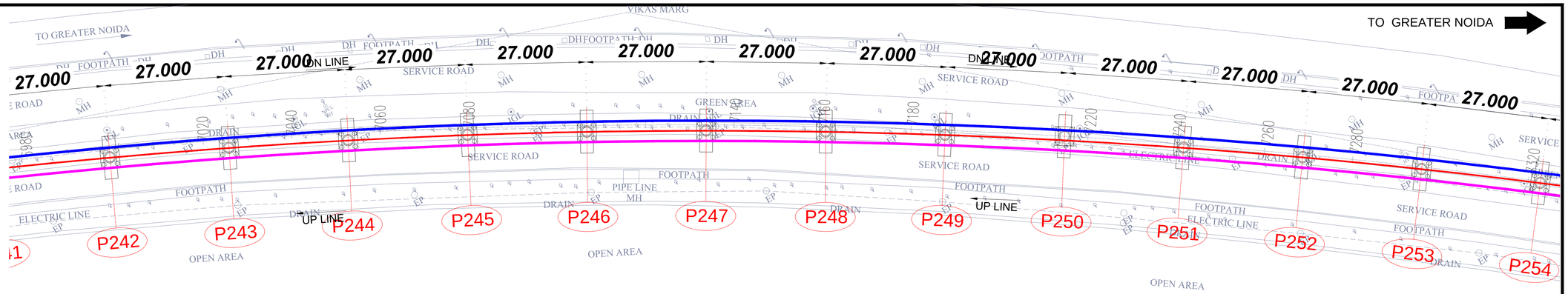
DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA



LEGEND

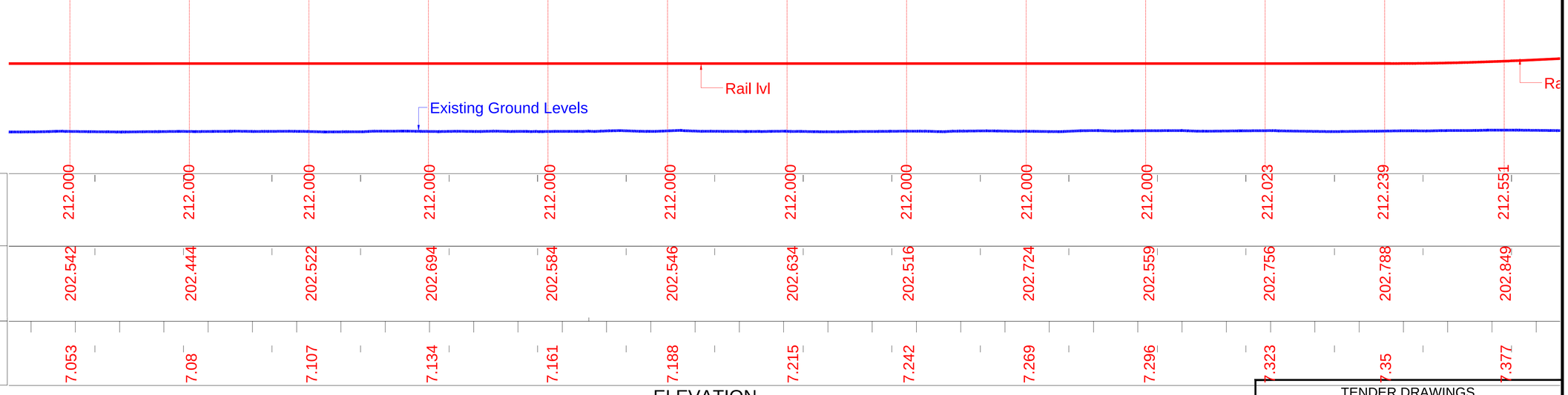
- ---------- - TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER

SI.NO	DESCRIPTION	SYMBOL	SI.NO	DESCRIPTION	SYMBOL	SI.NO	DESCRIPTION	SYMBOL
1	Road	ROAD	15	Bridge	BRIDGE	29	Water Pipeline	W/Line
2	Boundary Wall	BWALL	16	Bus Stop	BUS STOP	30	U.P. Pwr. Co. Ltd.	UPPCL
3	Footpath		17	Fly Over		31	Control Point	CP
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Indraprastha G. Ltd.	IGL
6	POND	POND	20	Man Hole	MH	34	Well	
7	Drain	DRAIN	21	Lamp Post	LP	35	Culvert	
8	Nala	NALA	22	Optical F-Cable	OFC	36	Junction Box	JB
9	PARK/GREEN	PARK	23	Vodafone OFC	VOFC	37	Electric Pole	EP
10	Building	BUILD	24	Transformer	TR	38	Bore Hole	BH
11	Shop	SHOP	25	Airtel OFC	AIRTEL	39	Sign Board	SB
12	Shed	SHED	26	Flood Light	FL	40	Tree No.	STN
13	Temple	TMPL	27	Km Stone	KMS	41	Gtr.N.Noi.Dvlp.Athrty.	GNNDA
14	Gate		28	Handpump	HP	42	Noida Pwr.Co.Ltd.	NPCL



ELEVATION

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ARRANGEMENT DRAWING

SCALE

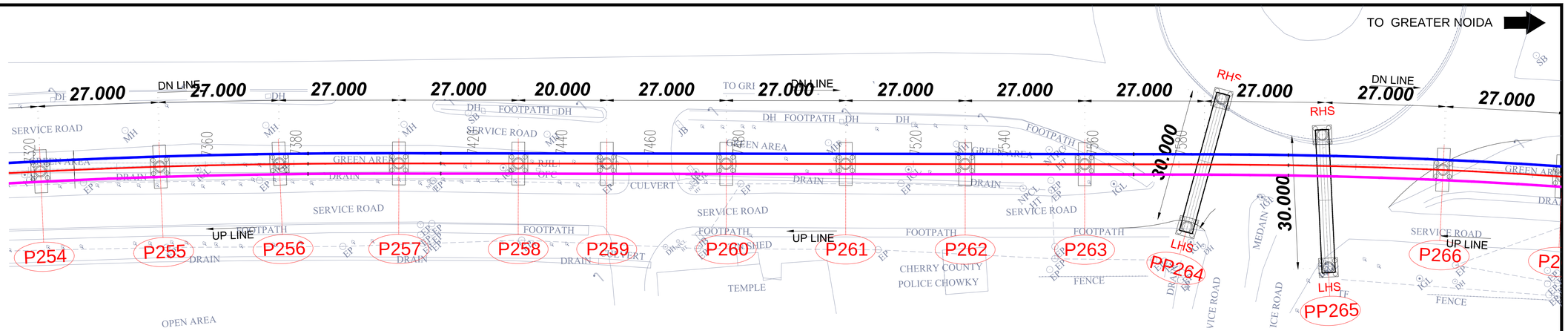
DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA



LEGEND

- TRACK CENTRE

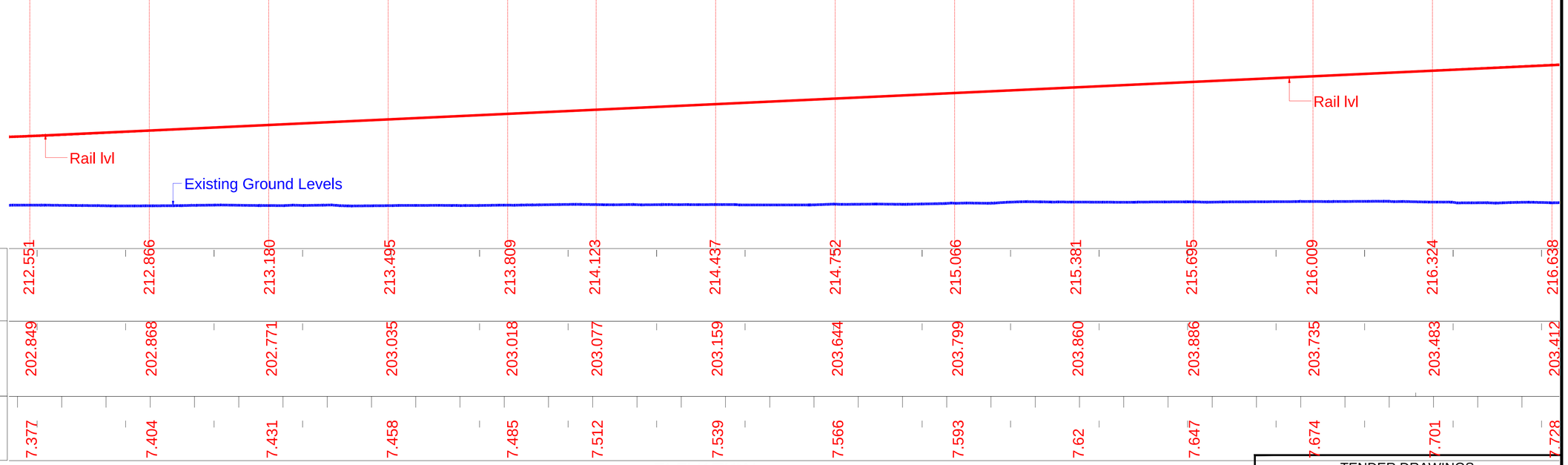
Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

1.	P	=	STANDARD PIER
2.	PP	=	PORTAL PIER
3.	CP	=	CNTILEVER PIER

LEGEND

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road	BRBC	15	Bridge		29	U. P. Pwr. Co. Ltd.	UPPCL
2	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	STN
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Indraprastha G.Ltd.	
6	POND	POND	20	Man Hole	MH	34	Well	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Optical F.Cable		36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC		37	Electric Pole	
10	Building	BUILD	24	Transformer		38	Bore Hole	BH
11	Shop	SHED	25	Airtel OFC		39	Sign Board	
12	Shed	SHED	26	Aircel OFC		40	Iron Pipe	
13	Temple		27	Km Stone		41	Girls Hostel Dhirubhai Ambani	
14	Gate		28	Handpump		42	Noida Pwr.Co.Ltd.	



Rail lvl	212.551	212.866	213.180	213.495	213.809	214.123	214.437	214.752	215.066	215.381	215.695	216.009	216.324	216.638
Existing Ground Levels	202.849	202.868	202.771	203.035	203.018	203.077	203.159	203.644	203.799	203.860	203.886	203.735	203.483	203.412
CHAINAGE	7.377	7.404	7.431	7.458	7.485	7.512	7.539	7.566	7.593	7.62	7.647	7.674	7.701	7.728

ELEVATION

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-B-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lkteengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ARRANGEMENT DRAWING

SCALE

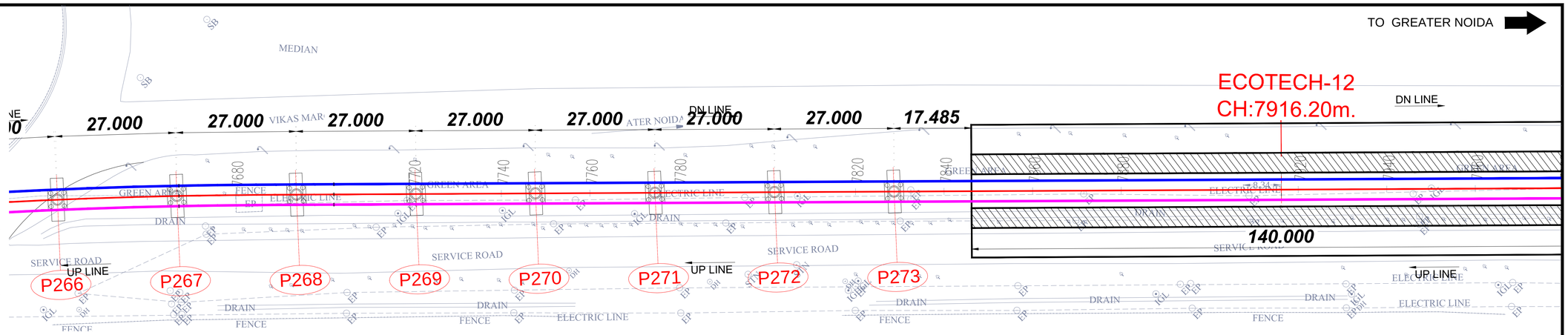
DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA



LEGEND

- TRACK CENTRE

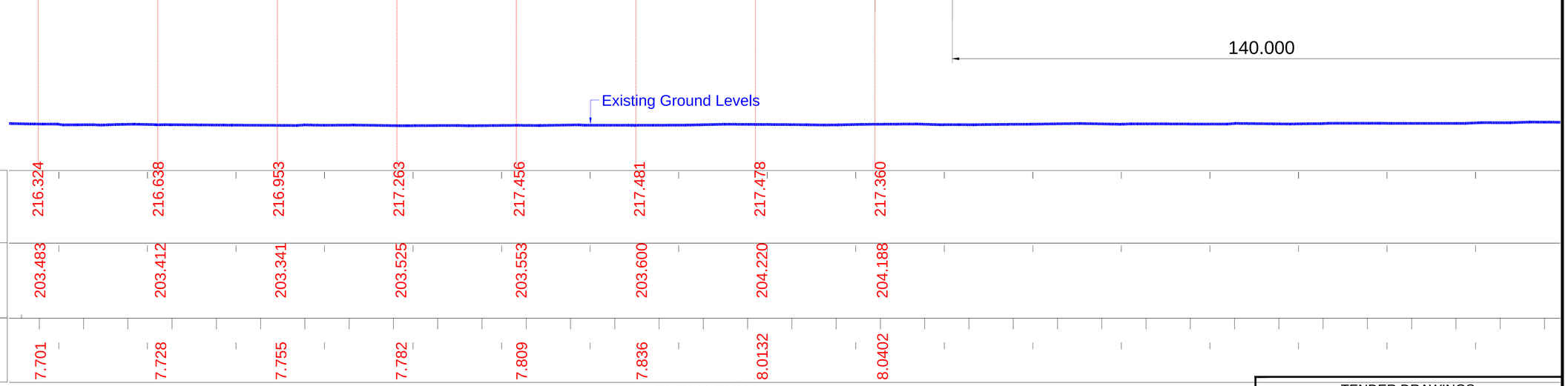
Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER

L E G E N D

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge	BRIDGE	29	U. P. Pwr. Co. Ltd.	UPCL
2	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	CP
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Indraprastha G. Ltd.	IGL
6	POND	POND	20	Man Hole	MH	34	Well	
7	Drain	DRAIN	21	Lamp Post		35	Culvert	Culvert
8	Nala	NALA	22	Optical F.Cable	OFC	36	Junction Box	JB
9	PARK/GREEN		23	Vodafone OFC	VOF	37	Electric Pole	EP
10	Building	BUILD	24	Transformer	TF	38	Bore Hole	BH
11	Shop	SHOP	25	Airtel OFC	AirTL	39	Sign Board	SB
12	Shed	SHED	26	Flood Light	FL	40	Tree No.	
13	Temple	TEMPLE	27	Km Stone	KMS	41	Gtr.N.Ind.Dvlp.Athrty.	
14	Gate		28	Handpump	HP	42	Noida Pwr.Co.Ltd.	P100



ELEVATION

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

GENERAL ARRANGEMENT DRAWING

SCALE

DATE
MAY-21

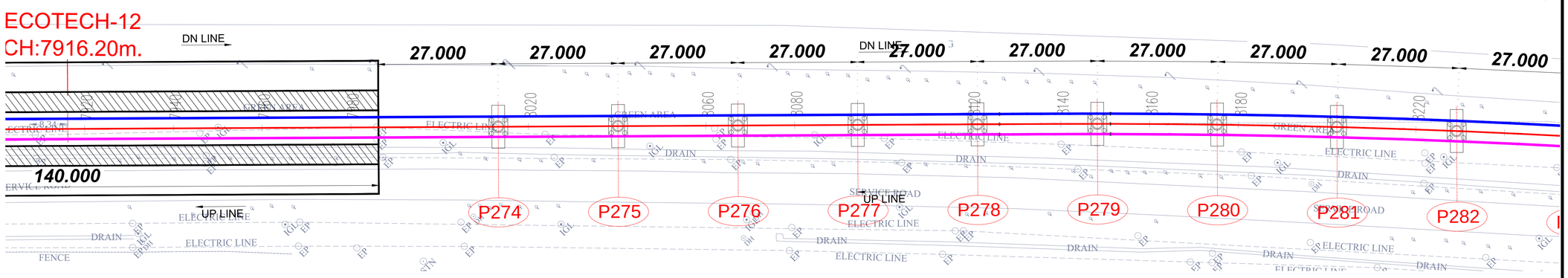
REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA

ECOTECH-12
CH:7916.20m.



LEGEND

- TRACK CENTRE

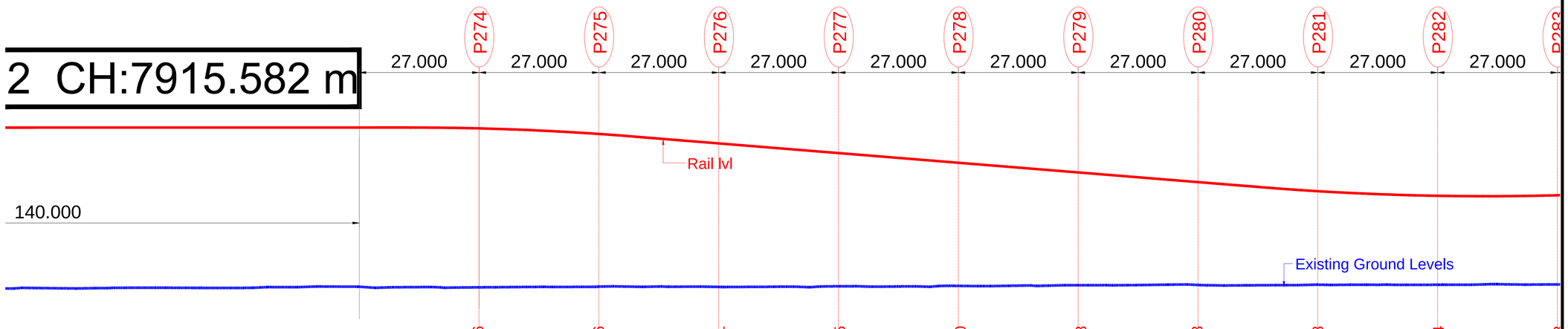
Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge	BRIDGE	29	U. P. Pwr. Co. Ltd.	UPCL
2	Boundary Wall	BW	16	Bus Stop	BStop	30	Signal Post	SP
3	Footpath	FP	17	Fly Over	FO	31	Control Point	CP
4	Fence	FENCE	18	Water Pipeline	WP	32	Tree	TREE
5	Electric Line	EL	19	Drain Hole	DH	33	Indraprastha G. Ltd.	IGL
6	POND	POND	20	Main Hole	MH	34	Well	WELL
7	Drain	DRAIN	21	Lamp Post	LP	35	Culvert	CULVERT
8	Nala	NALA	22	Optical F-Cable	OFC	36	Junction Box	JB
9	PARK/GREEN	PARK	23	Vodafone OFC	VOF	37	Electric Pole	EP
10	Building	BUILDING	24	Transformer	TF	38	Bore Hole	BH
11	Shed	SHED	25	Airtel OFC	AIRTEL	39	Sign Board	SB
12	Shed	SHED	26	Flood Light	FL	40	Tree No.	TREE NO.
13	Temple	TEMPLE	27	Iron Stone	IRON STONE	41	Gas Pipeline	GAS PIPELINE
14	Gate	GATE	28	Handpump	HP	42	Noida Pwr.Co.Ltd.	NPCL

2 CH:7915.582 m



Rail lvl	216.946	216.406	215.861	215.315	214.770	214.228	213.793	213.623	213.734	213.058
Existing Ground Levels	204.330	204.286	204.299	204.538	204.712	204.654	204.832	204.959	204.947	205.027
CHAINAGE	8.0672	8.0942	8.1212	8.1482	8.1752	8.2022	8.2292	8.2562	8.2832	8.3102

ELEVATION

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ARRANGEMENT DRAWING

SCALE

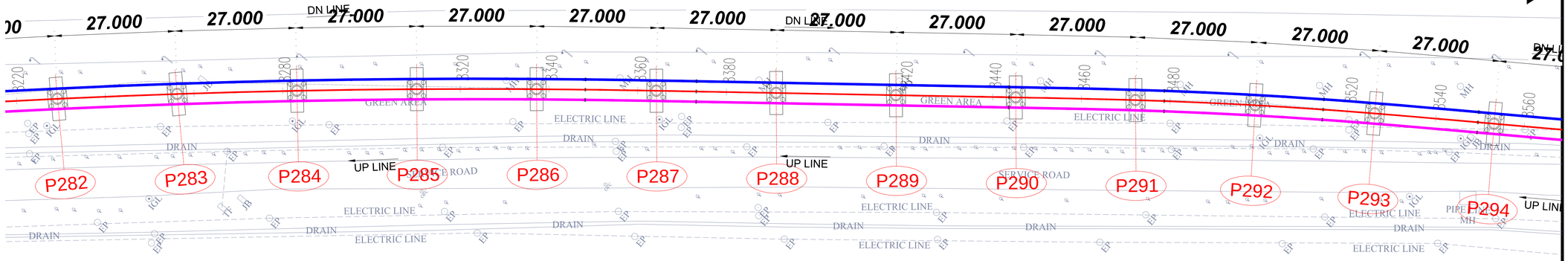
DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA



LEGEND

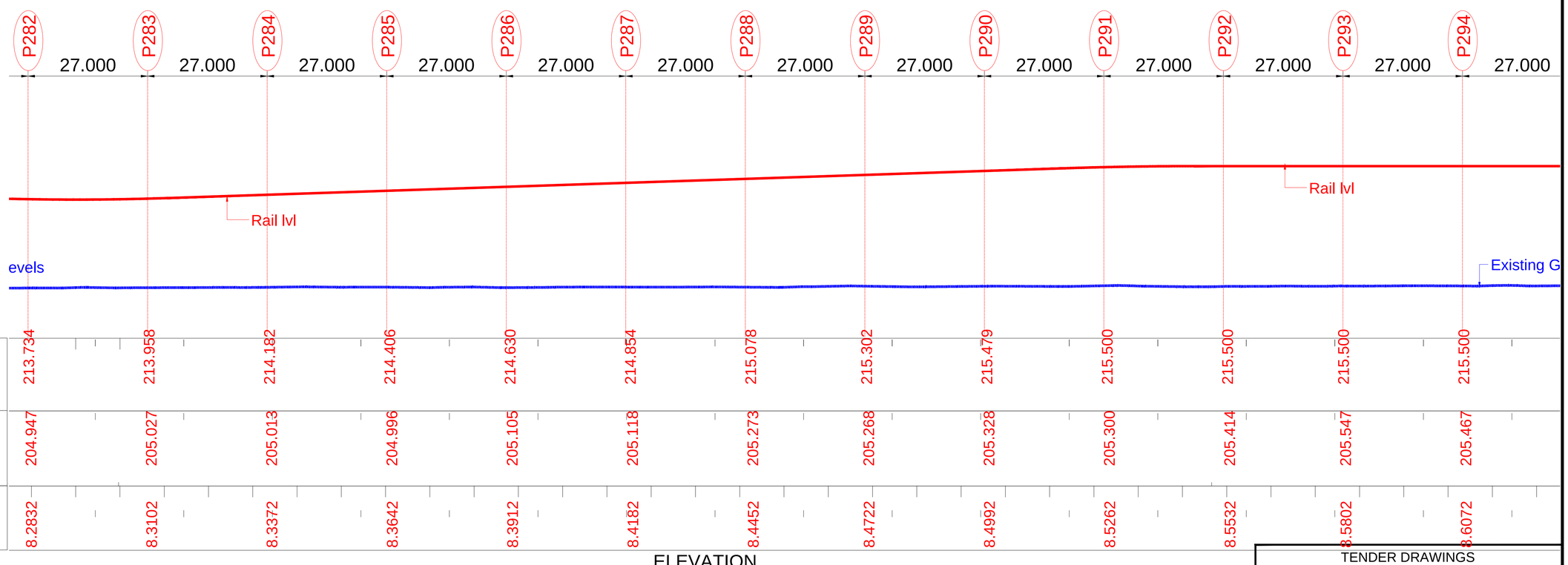
- TRACK CENTRE

Ls	-	LENGTH OF SPIRAL
Lc	-	CIRCULAR CURVE LENGTH
VCL	-	VERTICAL CURVE LENGTH
R	-	RADIUS
G	-	GRADIENT
L	-	LENGTH

LEGEND:-

1.	P	=	STANDARD PIER
2.	PP	=	PORTAL PIER
3.	CP	=	CNTILEVER PIER

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road	7000	15	Bridge		29	U. P. Pwr. Co. Ltd.	UPCL
2	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	STN.
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Indraprastha G. Ltd.	
6	POND		20	Man Hole	MH	34	Well	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Optical F-Cable		36	Junction Box	JB
9	PARK/GREEN		23	Vodafone OFC		37	Electric Pole	
10	Building		24	Transformer		38	Bore Hole	BH
11	Shop		25	Airtel OFC		39	Sign Board	SB
12	Shed		26	Road Light		40	Tree No.	P100
13	Temple		27	Km Stone		41	Gitanjali Jain Abhiy.	
14	Gate		28	Handpump		42	Noida Pwr.Co.Ltd.	



ELEVATION

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-B-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lkteengineering.com

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

GENERAL ARRANGEMENT DRAWING

SCALE

DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

27 OF 31

TO NOIDA CITY CENTRE

TO GREATER NOIDA

VIKAS MARG

TO GREATER NOIDA

DN LINE

UP LINE

GREEN AREA

ELECTRIC LINE

DRAIN

SERVICE ROAD

P294 P295 P296 P297 P298 P299 P300 P301 P302 P303 P304 P305 P306

27.000

Existing Ground Levels

LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge	BRIDGE	29	U. P. Pwr. Co. Ltd.	UPCL
2	Boundry Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	STN.
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain hole	DH	33	Indraprastha G. Ltd.	IGL
6	POND	POND	20	Man Hole	MH	34	Well	
7	Drain		21	Lamp Post		35	Culvert	Culvert
8	Nala	NALA	22	Optical F-Cable	OFC	36	Junction Box	JB
9	PARK/GREEN		23	Vodafone OFC	VOFC	37	Electric Pole	
10	Building	BUILD	24	Transformer	TF	38	Bore Hole	BH
11	Shop	SHOP	25	Airtel OFC	AIRTEL	39	Flood Light	FL
12	Shed	SHED	26	Flood Light	FL	40	Sign Board	SB
13	Temple	TEMP	27	Km Stone	KMS	41	Tree No.	P100
14	Gate		28	Handpump	HP	42	Grt.N.Hrd.Dvlp.Athrty/ Noida.Pwr.Co.Ltd.	

Rail lvl	215.500	215.500	215.500	215.500	215.500	215.500	215.500	215.543	215.806	216.172	216.539	216.906	217.272
Existing Ground Levels	205.467	205.590	205.640	205.974	205.919	205.866	206.032	205.900	206.181	206.184	206.430	206.585	206.735
CHAINAGE	8.6072	8.6342	8.6612	8.6882	8.7152	8.7422	8.7692	8.7962	8.8232	8.8502	8.8772	8.9042	8.9312

ELEVATION

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ARRANGEMENT DRAWING

SCALE

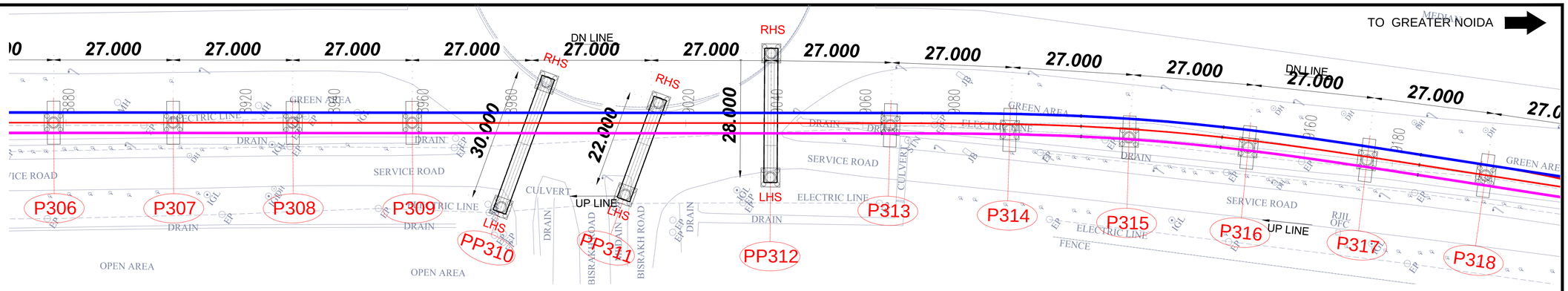
DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA



LEGEND

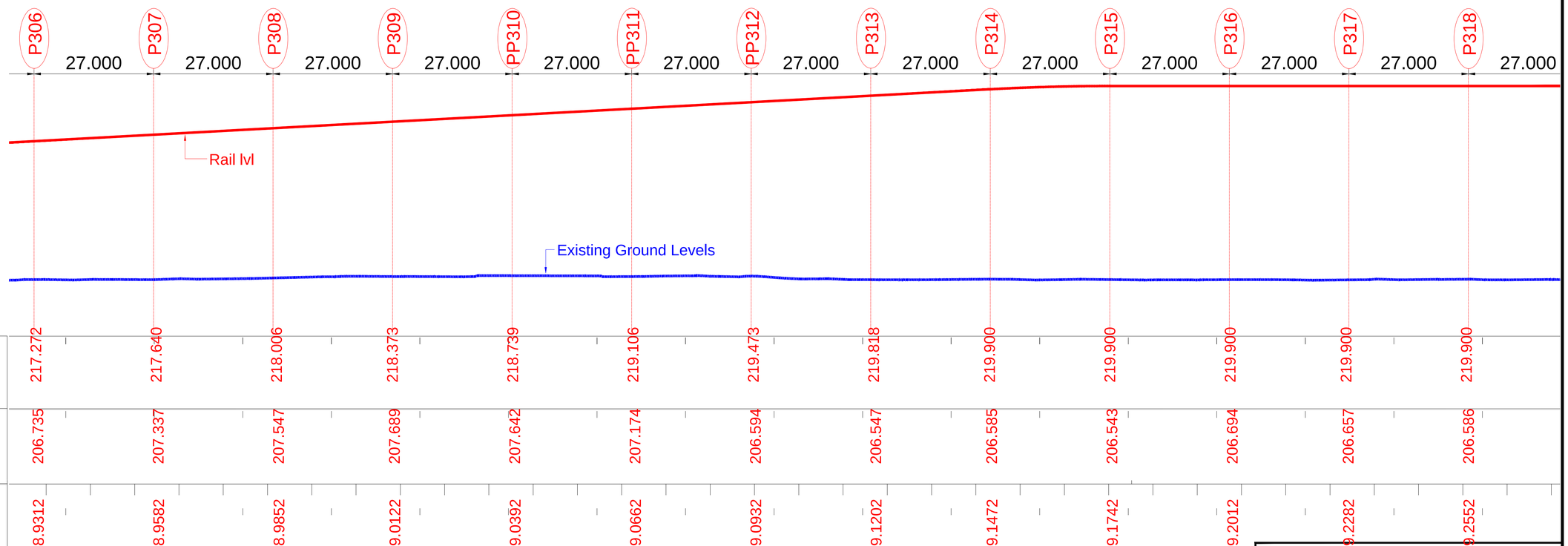
- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER

SL.NO	DESCRIPTION	SYMBOL	SL.NO	DESCRIPTION	SYMBOL	SL.NO	DESCRIPTION	SYMBOL
1	Road		15	Bridge		29	U.P. Pwr. Co. Ltd.	
2	Boundary Wall		16	Bus Stop		30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole		33	Indraprastha G. Ltd.	
6	POND		20	Man Hole		34	Well	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Optical F.Cable		36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC		37	Electric Pole	
10	Building		24	Transformer		38	Bore Hole	
11	Shop		25	Airtel OFC		39	Sign Board	
12	Shed		26	Flood Light		40	Tree No.	
13	Temple		27	Km Stone		41	Gtr.N.Ind.Dvlp.Athty.	
14	Gate		28	Handpump		42	Noida Pwr.Co.Ltd.	



ELEVATION

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ARRANGEMENT DRAWING

SCALE

DATE
MAY-21

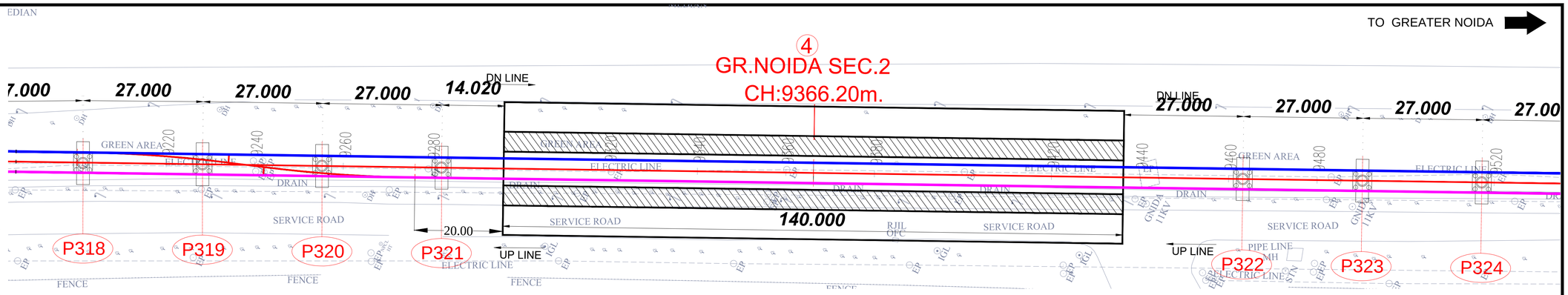
REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

29 OF 31

TO NOIDA CITY CENTRE

TO GREATER NOIDA



LEGEND

- TRACK CENTRE

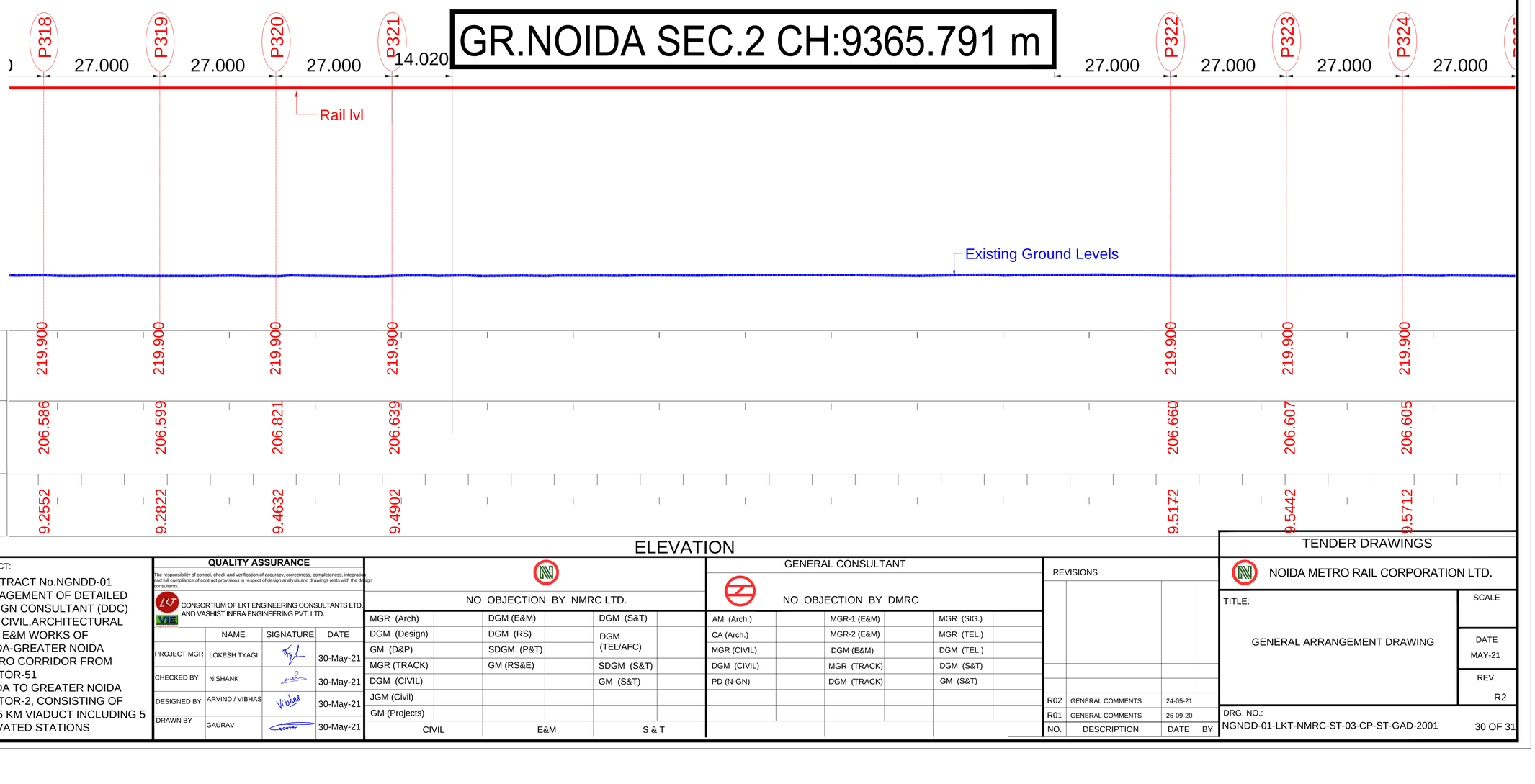
Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER

LEGEND

SL.NO	DESCRIPTION	SYMBOL	SL.NO	DESCRIPTION	SYMBOL	SL.NO	DESCRIPTION	SYMBOL
1	Road		15	Bridge		29	U.P. Pwr. Co. Ltd.	
2	Boundary Wall		16	Bus Stop	BSStp	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Indraprastha G. Ltd.	
6	POND		20	Man Hole	MH	34	Well	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Optical F.Cable		36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC	VDF	37	Electric Pole	
10	Building	BUILD	24	Transformer		38	Bore Hole	
11	Shop	SHOP	25	Airtel OFC	AIRTL	39	Sign Board	
12	Shed	SHED	26	Flood Light	FL	40	Tree No.	
13	Temple	TMPL	27	Km Stone	KMS	41	Gtr.N.ind.Dvlp.Athrty.	
14	Gate		28	Handpump	HP	42	Noida Pwr.Co.Ltd.	



ELEVATION

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS	Vibhas	30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

GENERAL ARRANGEMENT DRAWING

SCALE

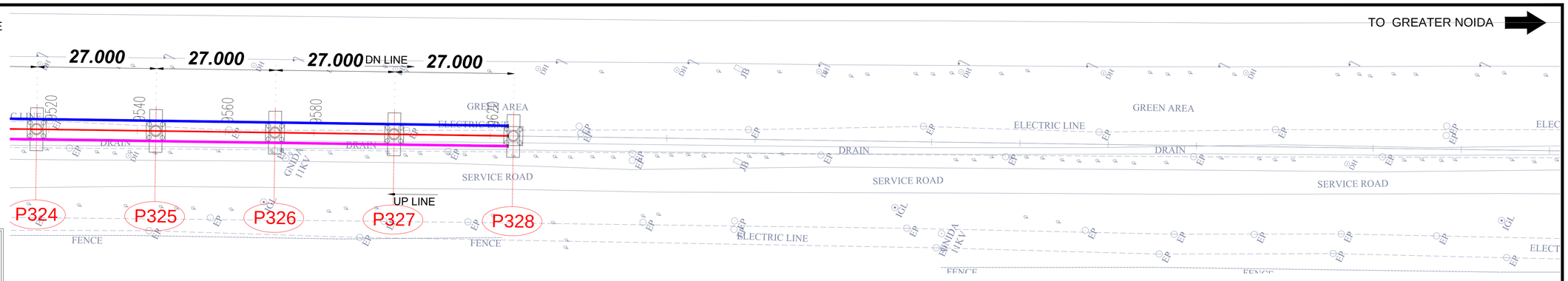
DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA



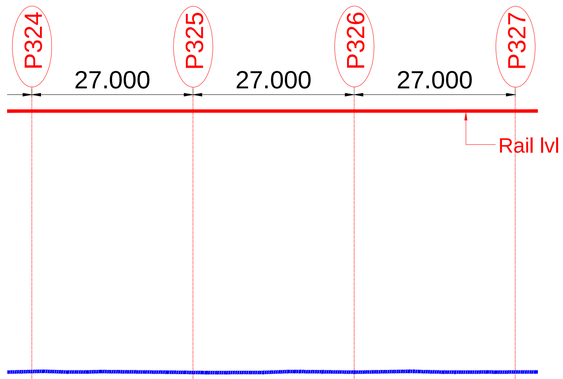
LEGEND

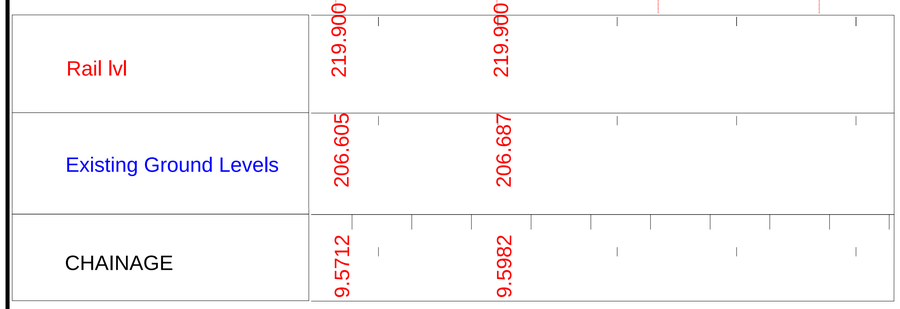
----------	-	TRACK CENTRE
Ls	-	LENGTH OF SPIRAL
Lc	-	CIRCULAR CURVE LENGTH
VCL	-	VERTICAL CURVE LENGTH
R	-	RADIUS
G	-	GRADIENT
L	-	LENGTH

LEGEND:-

1.	P	=	STANDARD PIER
2.	PP	=	PORTAL PIER
3.	CP	=	CNTILEVER PIER

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge	BRIDGE	29	U. P. Pwr. Co. Ltd.	UPPCL
2	Boundry Wall		16	Bus Stop	BStop	30	Signal Post	S
3	Footpath		17	Fly Over		31	Control Point	STN.
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Indraprastha G. Ltd	
6	POND	POND	20	Man Hole	MH	34	Well	
7	Drain	DRAIN	21	Lamp Post		35	Culvert	
8	Nala	NALA	22	Optical F-Cable	OFC	36	Junction Box	JB
9	PARK/GREEN		23	Vodafone OFC	VOF	37	Electric Pole	
10	Building	BUILD	24	Transformer	TF	38	Bore Hole	BH
11	Shop	SHOP	25	Airtel OFC	AIRTEL	39	Sign Board	SB
12	Shed	SHED	26	Road Light		40	Tree No.	P100
13	Temple	TEMPL	27	Km Stone	KMS	41	Km And Dep.Abthy.	
14	Gate		28	Handpump	HP	42	Noida Pwr.Co.Ltd.	





ELEVATION

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

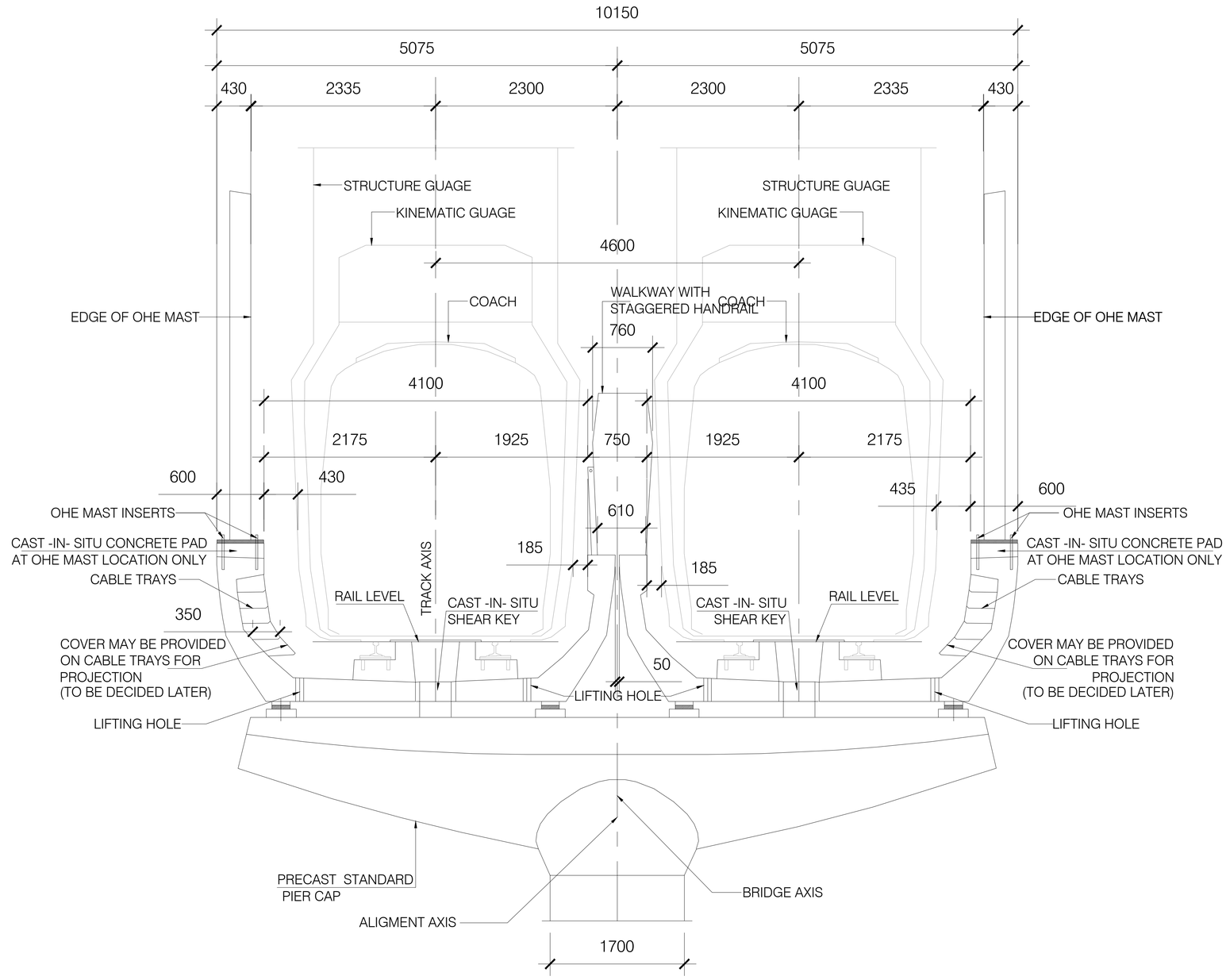
GENERAL ARRANGEMENT DRAWING

SCALE

DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001



SECTION AT PIER

SCALE :1/30

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		29-May-21
CHECKED BY	NISHANK		29-May-21
DESIGNED BY	ARVIND / VIBHAS		29-May-21
DRAWN BY	GAURAV		29-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

STANDARD STRAIGHT SPAN
(Typical cross section)

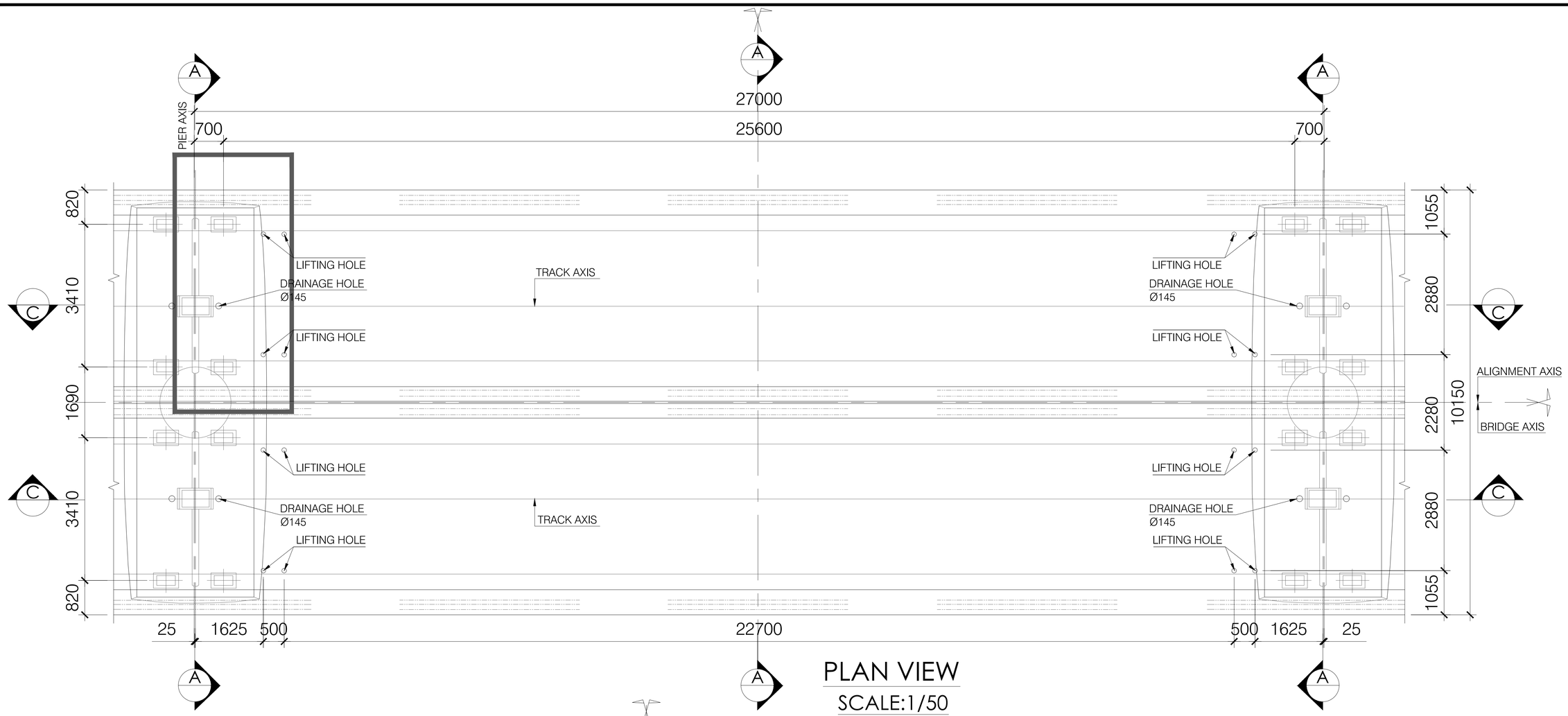
SCALE

DATE
MAY-21

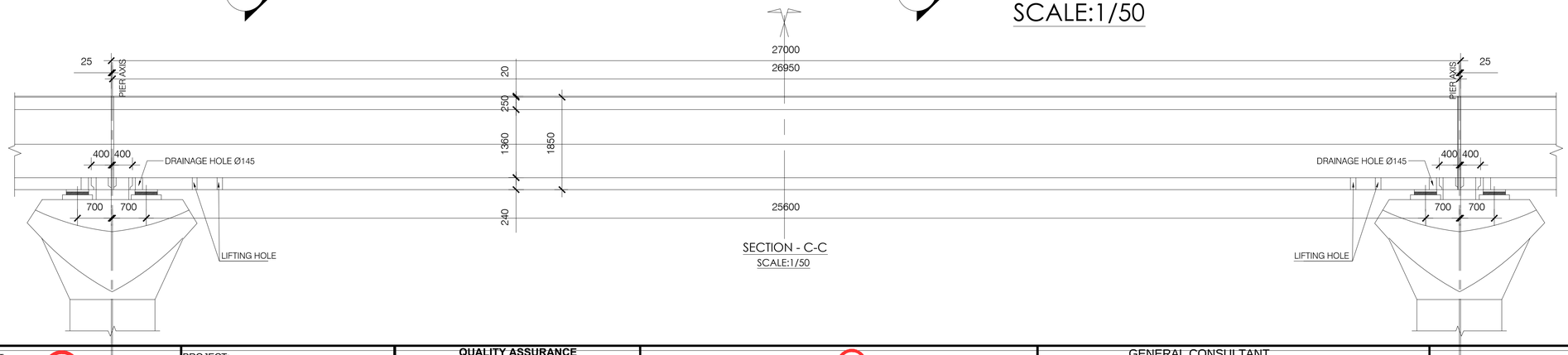
REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-3001

1 OF 1



PLAN VIEW
SCALE:1/50



SECTION - C-C
SCALE:1/50

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		29-May-21
CHECKED BY	NISHANK		29-May-21
DESIGNED BY	ARVIND / VIBHAS		29-May-21
DRAWN BY	GAURAV		29-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
STANDARD STRAIGHT SPAN
(plan view & elevation)
TYPICAL SPAN PLAN AND ELEVATION OF SUPER STR

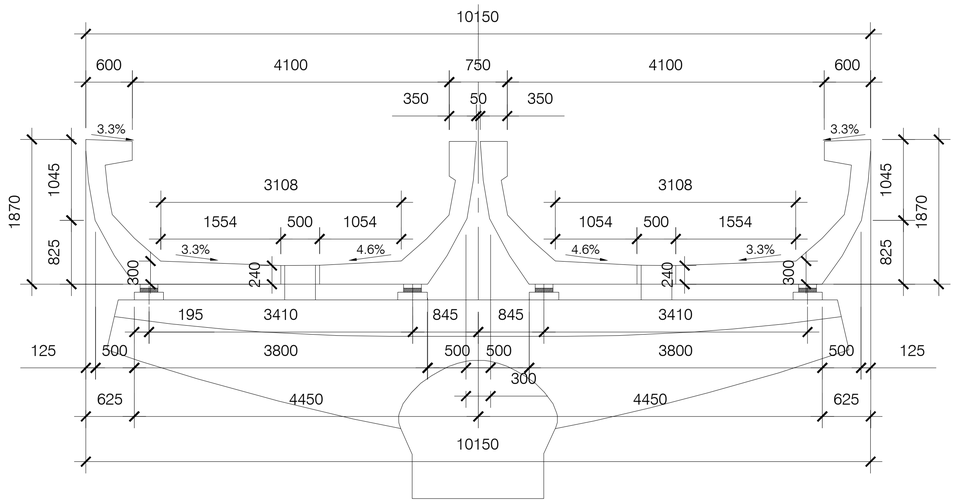
SCALE:

DATE: MAY-21

REV.: R2

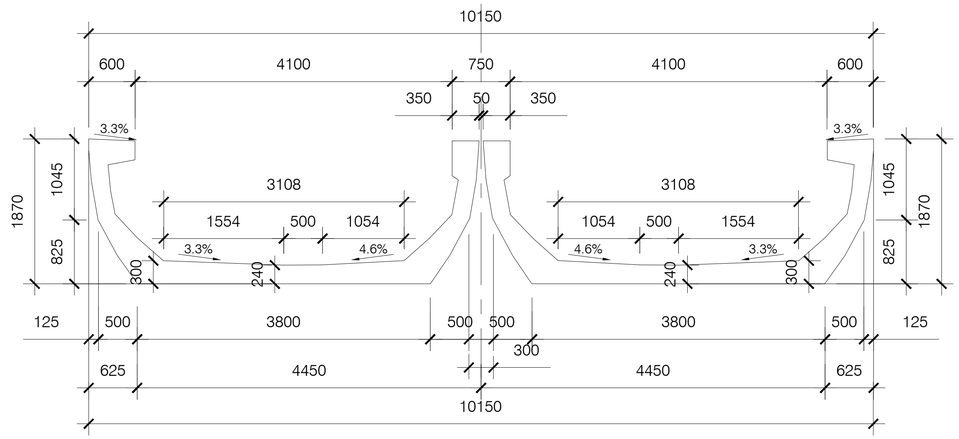
DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-3002

1



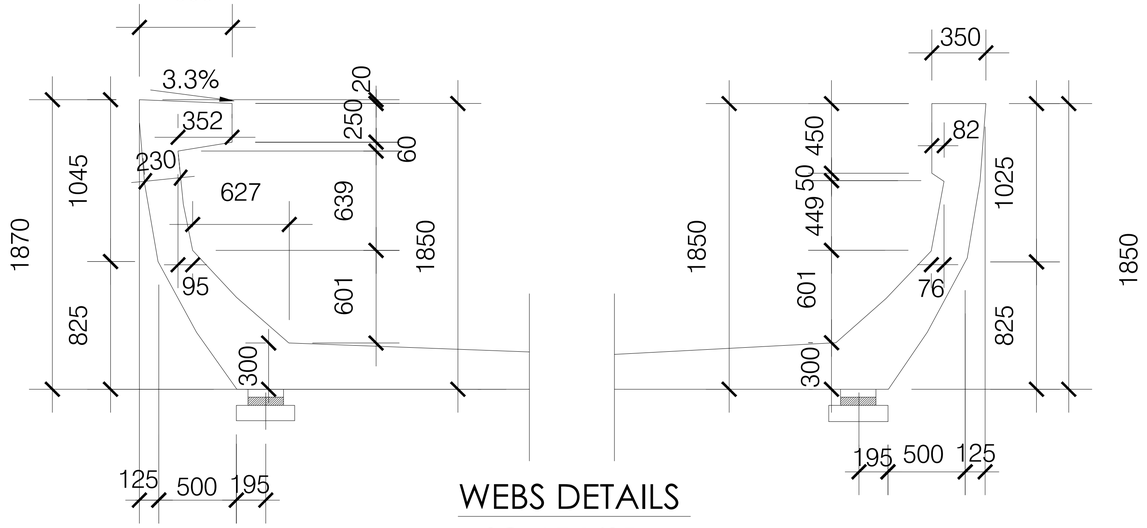
SECTION-A-A AT PIER LOCATION

SCALE :1/50



SECTION-B-B AT MID SPAN

SCALE:1/50



WEBS DETAILS

SCALE:1/25

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

STANDARD STRAIGHT SPAN
(concrete out line)

TYPICAL PIER CAP CROSS SECTION AND U GIRDER

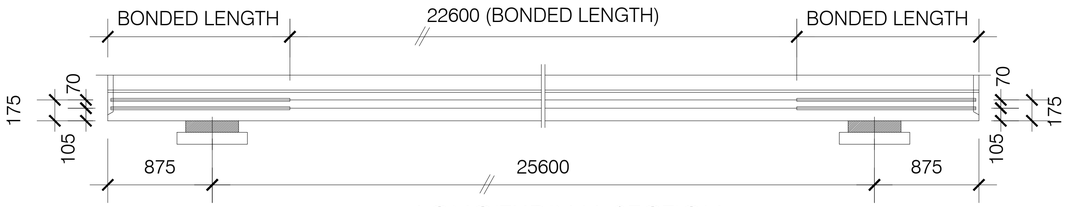
SCALE

DATE
MAY-21

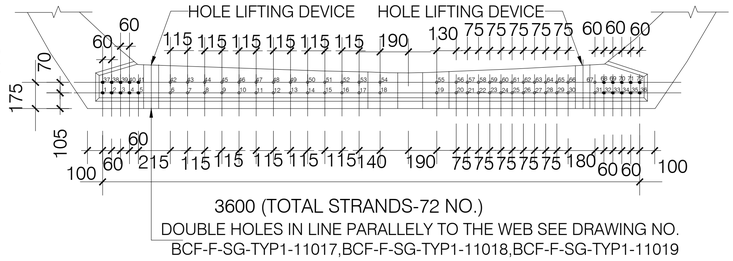
REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-3003

1

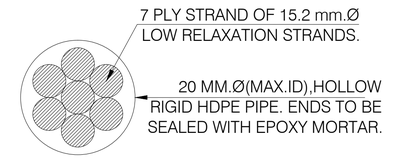


LONGITUDINAL SECTION
SCALE:1/25

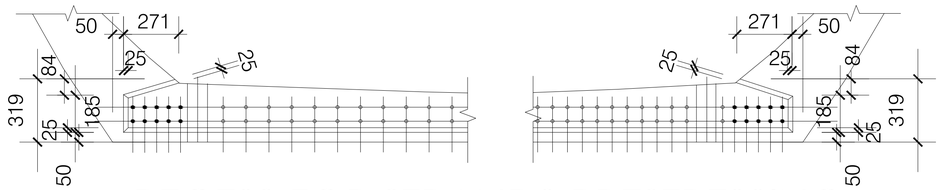


DOUBLE HOLES IN LINE PARALLELY TO THE WEB SEE DRAWING NO.
BCF-F-SG-TYP1-11017,BCF-F-SG-TYP1-11018,BCF-F-SG-TYP1-11019

FRONT ELEVATION
SCALE:1/20

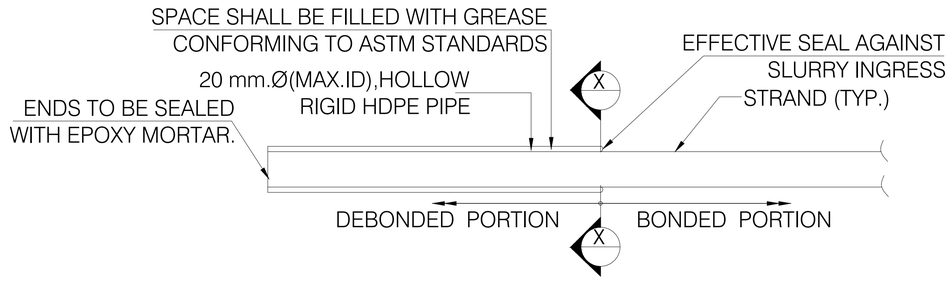


SECTION - X-X
SCALE:1/15



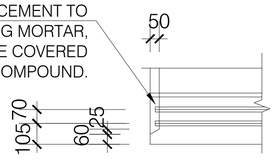
RECESS FOR STRANDS PRESTRESSING
SCALE:1/15

LEGEND
- ● NON-DEBONDED STRANDS
- ○ DEBONDED STRANDS AT END



TYPICAL DETAIL OF DEBONDED STRAND
SCALE:1/15

CASTING OF PT RECESS USING MORTAR BD PATCH. MORTAR SHALL BE MADE OF PORTLAND CEMENT+SAND(CEMENT TO SAND RATIO:1:2)PRIOR TO PLACING MORTAR, INNER FACES OF RECESS SHALL BE COVERED WITH EPOXY BONDING COMPOUND.



BONDING / DEBONDED SCHEDULE FOR SECTION

STRAND NOS.	TOTAL NO. OF STRANDS	BONDED length(mm.)	L= OVERALL LENGTH OF SECTION=26950mm.
1,2,3,4,5,32,33,34,35,36 37,38,39,40,41,68,69,70,71,72	20	FULL LENGTH BONDED	
6,7,8,9,10,11,12,13,14,15,16,17,18,19,20, 21,22,23,24,25,26,27,28,29,30,31,42,43, 44,45,46,47,48,49,50,51,52,53,54,55, 56,57,58,59,60,61,62,63,64,65,66,67	52	22600	FACE OF THE SECTION — 11300 — ℄ OF SPAN — 11300 — FACE OF THE SECTION; DEBONDED; DEBONDED

TENDER DRAWINGS

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
STANDARD STRAIGHT SPAN
(prestressing layout)

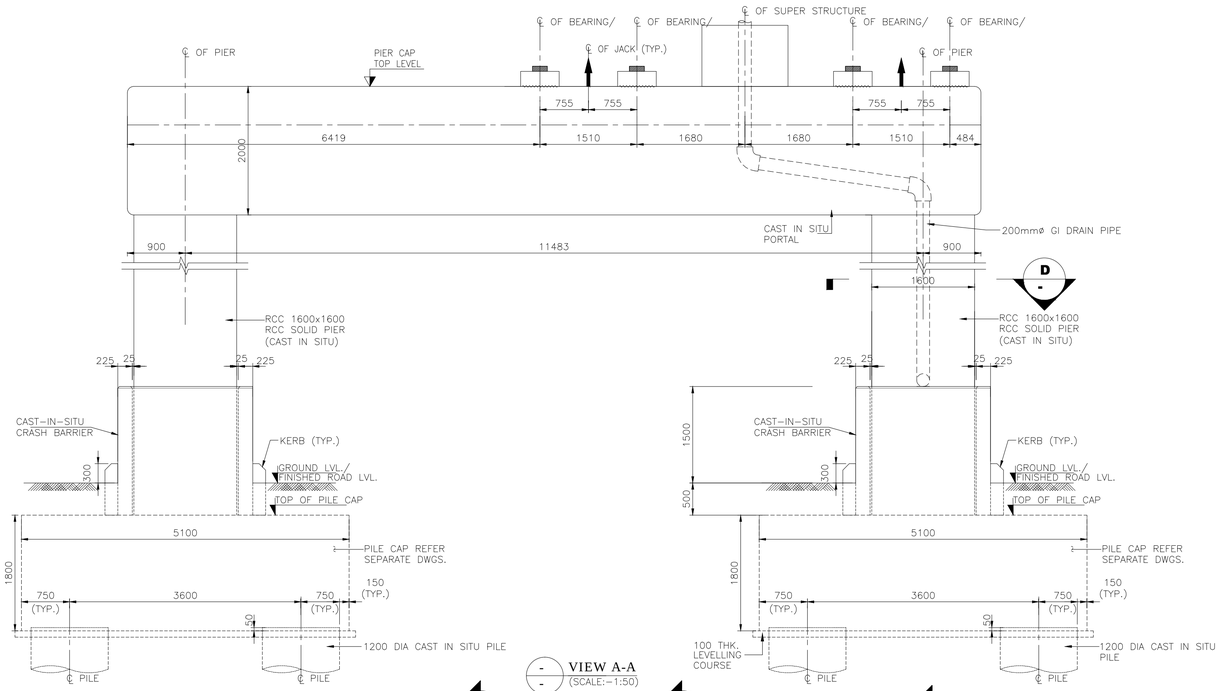
SCALE:

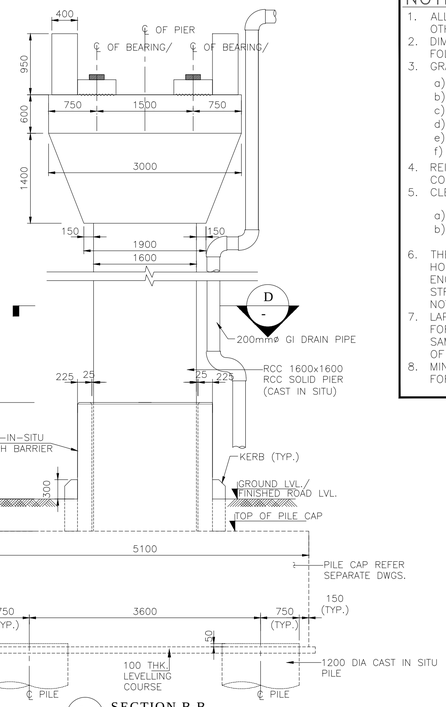
DATE: MAY-21

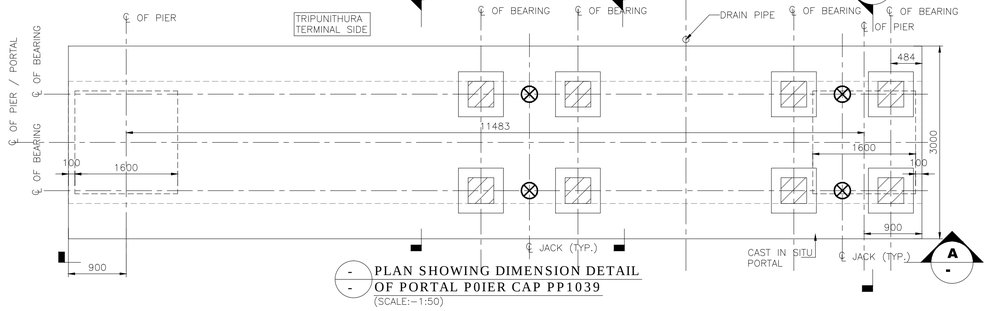
REV.: R2

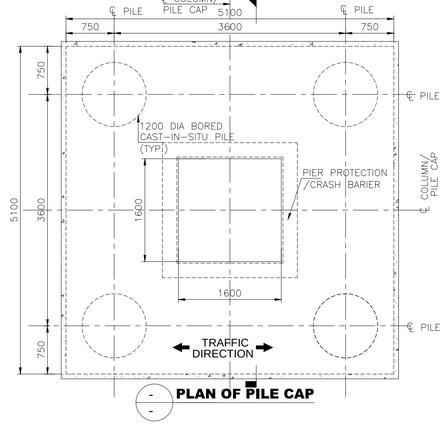
DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-3004

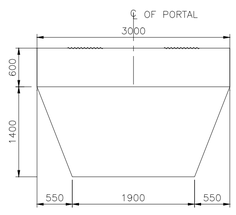
1 OF 1

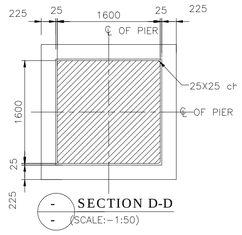


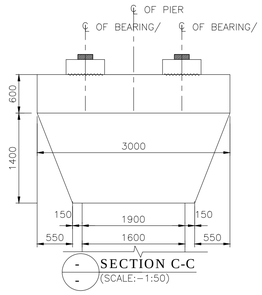












NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS IN METERS, UNLESS NOTED OTHERWISE.
2. DIMENSIONS ARE NOT TO BE SCALED . ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. GRADE OF CONCRETE IN VARIOUS COMPONENTS SHALL BE AS UNDER :
   a) PILE AND PILE CAP ——— M40
   b) PIER ——— M50
   c) PIER CAP ——— M50
   d) PEDESTAL ——— M50
   e) SEISMIC RESTRAINER ——— M50
   f) PCC ——— M15
4. REINFORCING STEEL SHALL BE HYSD BARS (GRADE DESIGNATION FE:500D) CONFORMING TO IS:1786.
5. CLEAR COVER SHALL BE AS UNDER:
   a) PILE AND PILE CAP ——— 75mm
   b) PIER AND PIER CAP ——— 50mm
6. THE EXPECTED STRATA AS SPECIFIED IN THE DRAWING IS BASED ON NEARBY BORE HOLE DATA AS AVAILABLE. IN CASE THE ACTUAL STRATA NEAR THE PILE TIP ENCOUNTERED DURING THE PILING OPERATION IS DIFFERENT FROM THE EXPECTED STRATA AS SPECIFIED IN THE DRAWING, THE MATTER SHALL BE BROUGHT TO THE NOTICE OF ENGINEER.
7. LAP LENGTH SHALL BE 41 DIA OF BARS FOR SINGLE BAR AND 54 DIA OF BAR FOR BUNDLED BAR, NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED AT SAME LOCATION, LAPPING SHALL BE STAGGERED & CENTER TO CENTER DISTANCE OF THE LAPS SHALL NOT BE LESS THAN 1.3 TIMES LAP LENGTH.
8. MINIMUM DEVELOPMENT LENGTH FOR SINGLE BARS SHALL BE 41 DIA OF BARS AND FOR BUNDLED BARS 54 DIA OF BARS UNLESS OTHERWISE SPECIFIED.

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
DIMENSION DETAIL OF CAST IN SITU PIER AND PORTAL BEAM

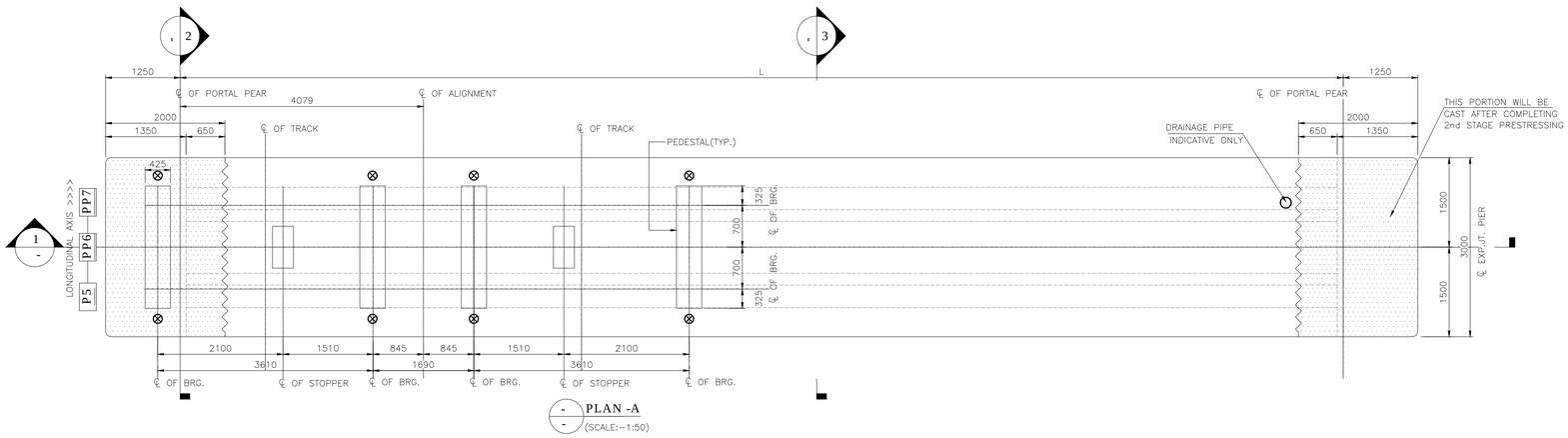
SCALE

DATE
MAY-21

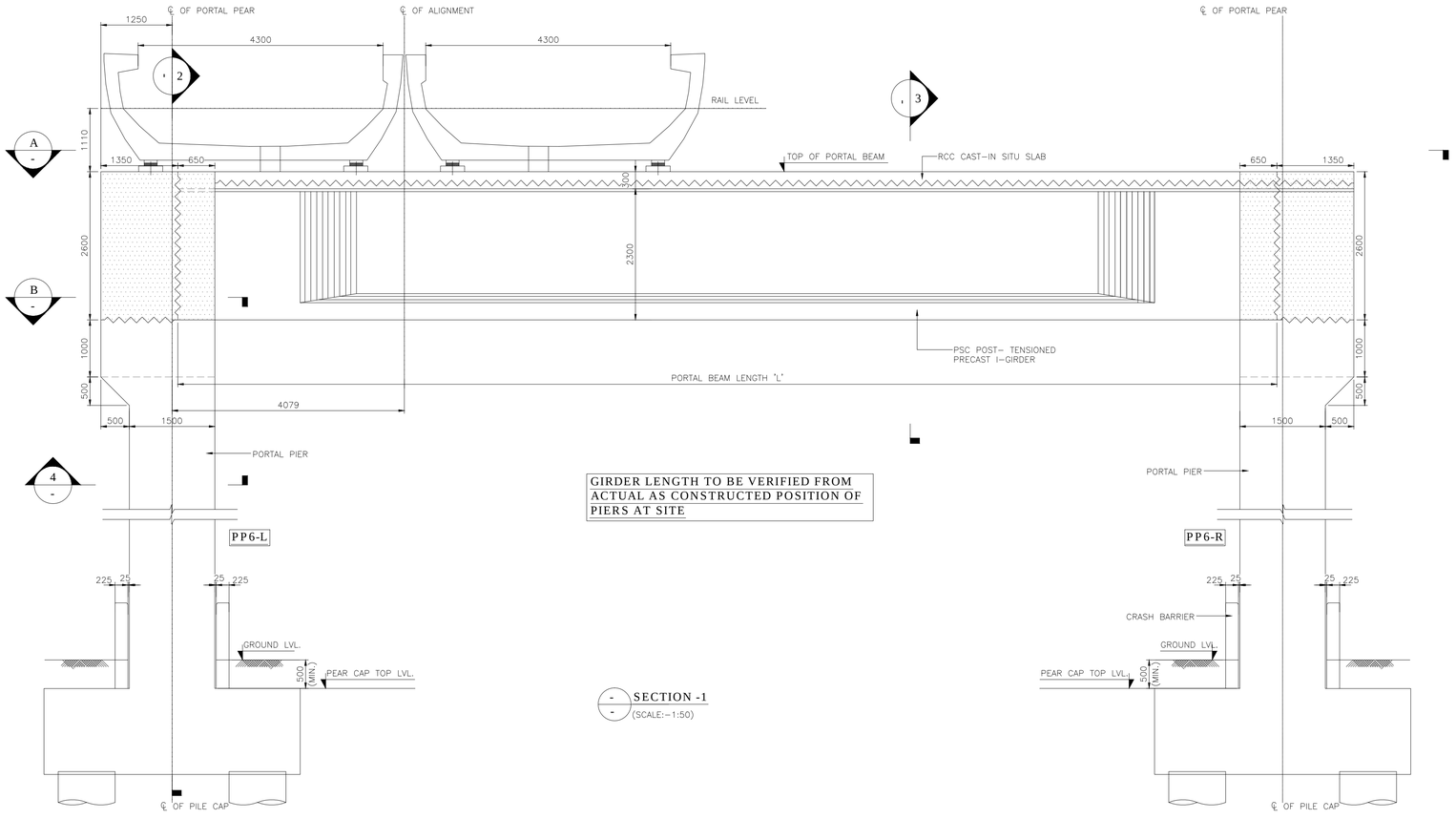
REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-3005

1 OF 1

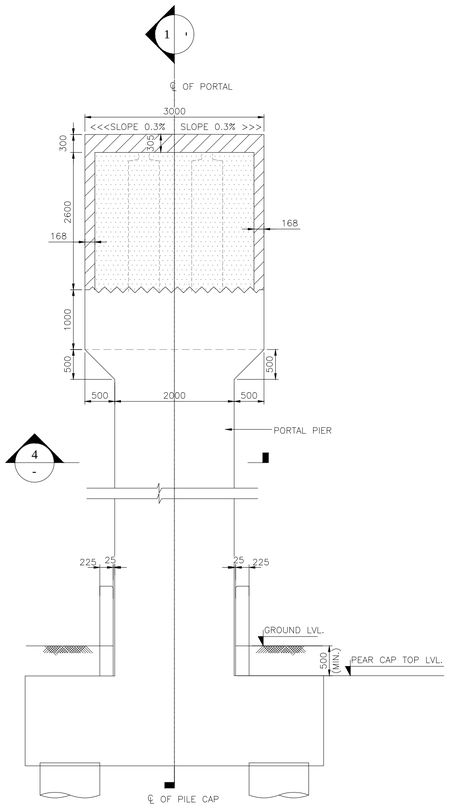


PLAN -A
(SCALE:-1:50)

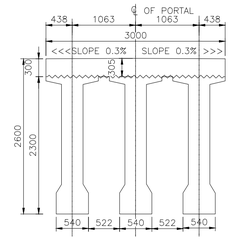


GIRDER LENGTH TO BE VERIFIED FROM ACTUAL AS CONSTRUCTED POSITION OF PIERS AT SITE

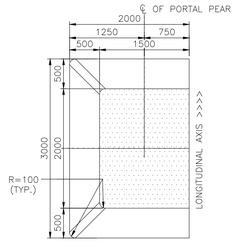
SECTION -1
(SCALE:-1:50)



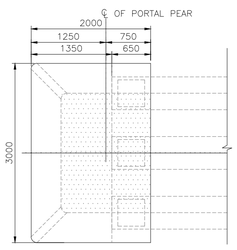
SECTION -2
(SCALE:-1:50)



SECTION -3
(SCALE:-1:50)



SECTION -4
(SCALE:-1:50)



PLAN B
(SCALE:-1:50)

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
PORTAL PEAR DIMENSION DETAIL

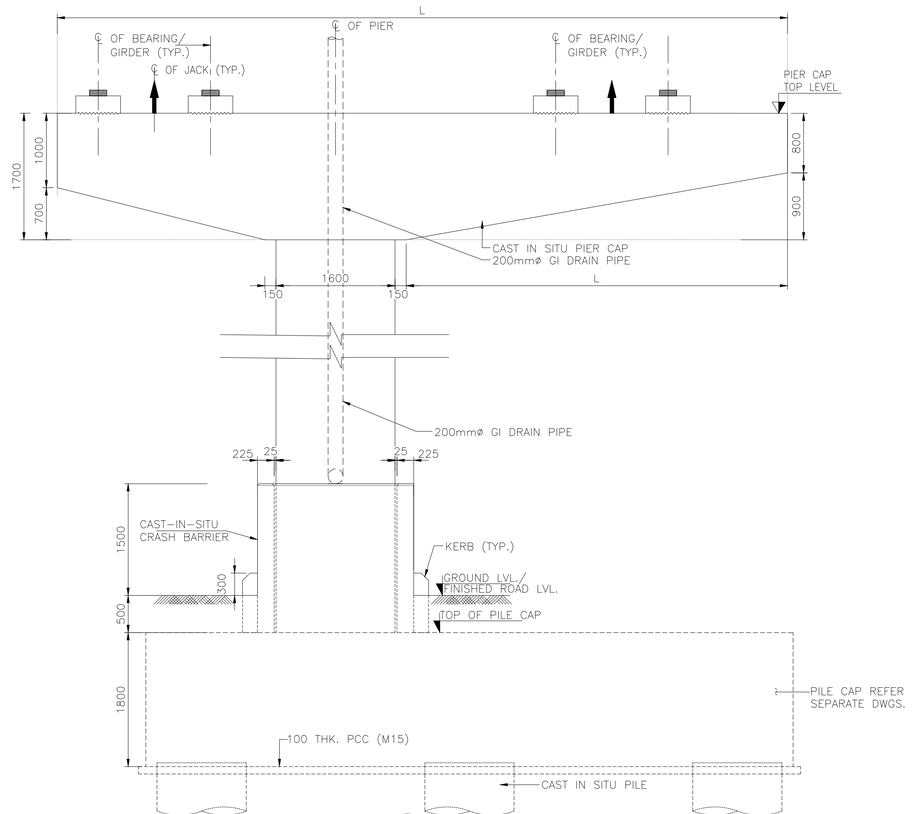
SCALE

DATE
MAY-21

REV.
R2

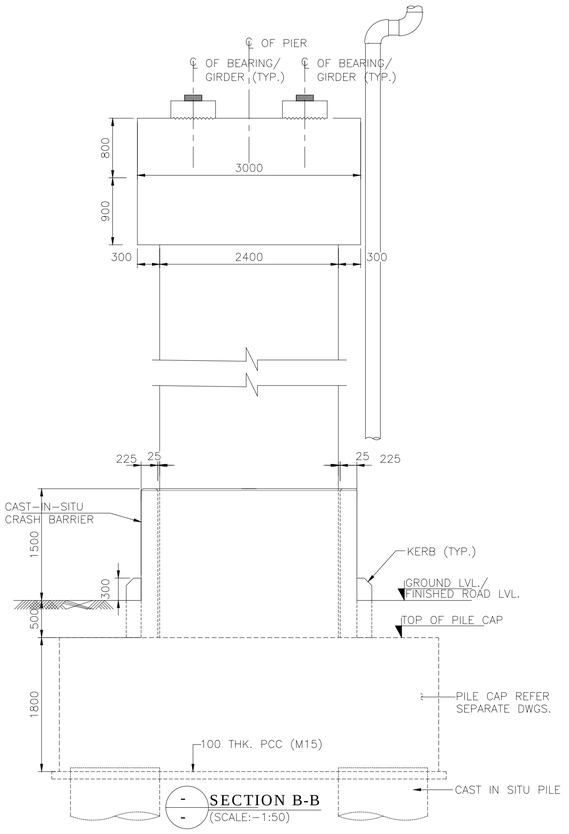
DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-3006

1 OF 1

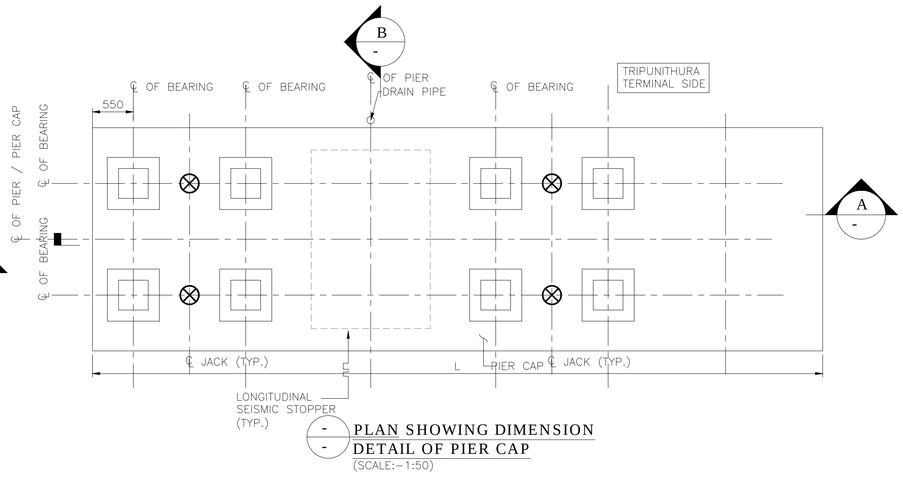


- SECTION A-A
(SCALE:-1:50)

- PLAN OF PILE CAP
(SHOWING DIMENSIONS)



- SECTION B-B
(SCALE:-1:50)



- PLAN SHOWING DIMENSION
DETAIL OF PIER CAP
(SCALE:-1:50)

- SECTION OF PIER
(SCALE:-1:50)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS IN METERS, UNLESS NOTED OTHERWISE.
2. DIMENSIONS ARE NOT TO BE SCALED . ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. GRADE OF CONCRETE IN VARIOUS COMPONENTS SHALL BE AS UNDER :
   a) PILE AND PILE CAP ——— M40
   b) PIER ——— M50
   c) PIER CAP ——— M50
   d) PEDESTAL ——— M50
   e) SEISMIC RESTRAINER ——— M50
   f) PCC ——— M15
4. REINFORCING STEEL SHALL BE HYSD BARS (GRADE DESIGNATION FE:500D) CONFORMING TO IS:1786.
5. CLEAR COVER SHALL BE AS UNDER:
   a) PILE AND PILE CAP ——— 75mm
   b) PIER AND PIER CAP ——— 50mm
6. THE EXPECTED STRATA AS SPECIFIED IN THE DRAWING IS BASED ON NEARBY BORE HOLE DATA AS AVAILABLE. IN CASE THE ACTUAL STRATA NEAR THE PILE TIP ENCOUNTERED DURING THE PILING OPERATION IS DIFFERENT FROM THE EXPECTED STRATA AS SPECIFIED IN THE DRAWING, THE MATTER SHALL BE BROUGHT TO THE NOTICE OF ENGINEER.
7. LAP LENGTH SHALL BE 41 DIA OF BARS FOR SINGLE BAR AND 54 DIA OF BAR FOR BUNDLED BAR, NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED AT SAME LOCATION, LAPPING SHALL BE STAGGERED & CENTER TO CENTER DISTANCE OF THE LAPS SHALL NOT BE LESS THAN 1.3 TIMES LAP LENGTH.
8. MINIMUM DEVELOPMENT LENGTH FOR SINGLE BARS SHALL BE 41 DIA OF BARS AND FOR BUNDLED BARS 54 DIA OF BARS UNLESS OTHERWISE SPECIFIED.

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
DIMENSION DETAILS OF PIER AND CAST IN SITU CANTILEVER PIER CAP

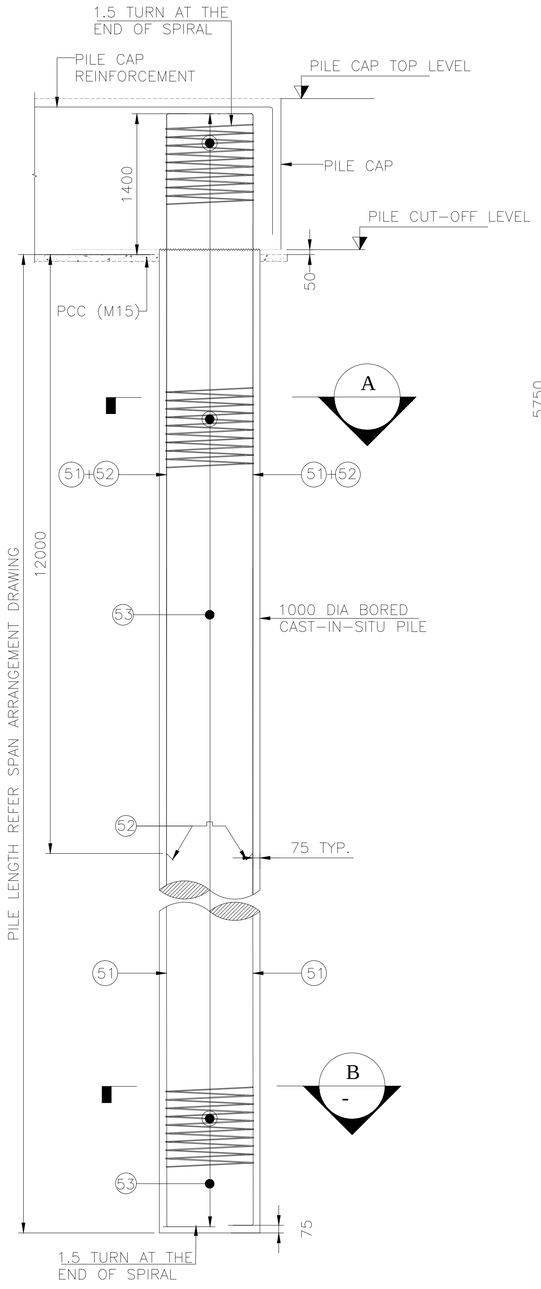
SCALE:

DATE: MAY-21

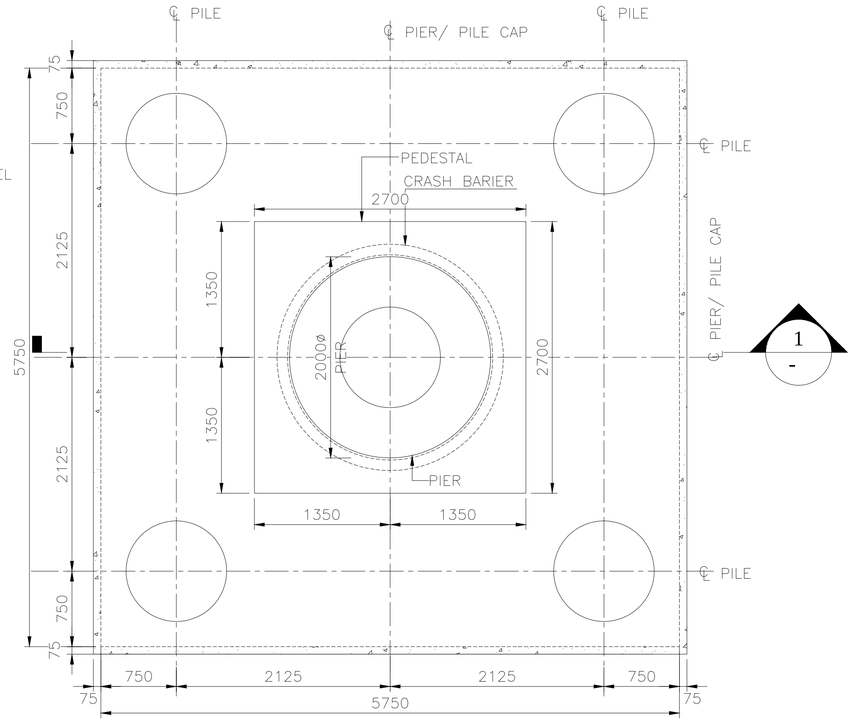
REV.: R2

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-3007

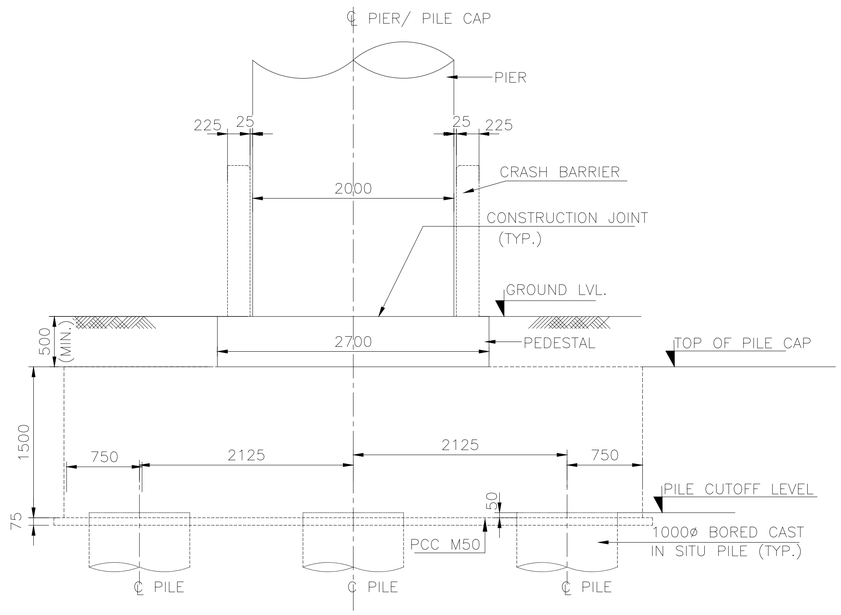
1 OF 1



- REINFORCEMENT DETAIL OF PILE
- (SCALE:-1:30)



- PLAN SHOWING PILE LAYOUT
- (SHOWING DIMENSIONS)

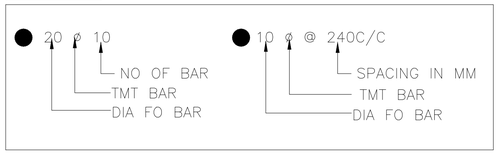


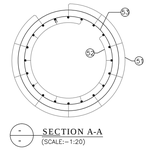
- SECTION 1-1
- (SCALE:-1:30)

REINFORCEMENT SCHEDULE FOR PILE

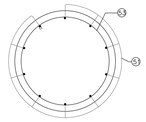
BAR MKD.	DIA (mm)	SPACING/NOS. (mm)	SHAPE
51	20	10 NOS.	270
52	20	10 NOS.	270
53	16	240 C/C	

LEGEND





- SECTION A-A
- (SCALE:-1:20)



- SECTION B-B
- (SCALE:-1:20)

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-45565814-18
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
PILE AND PILE CAP GENERAL ARRANGEMENT AND PILE REINFORCEMENT DETAILS

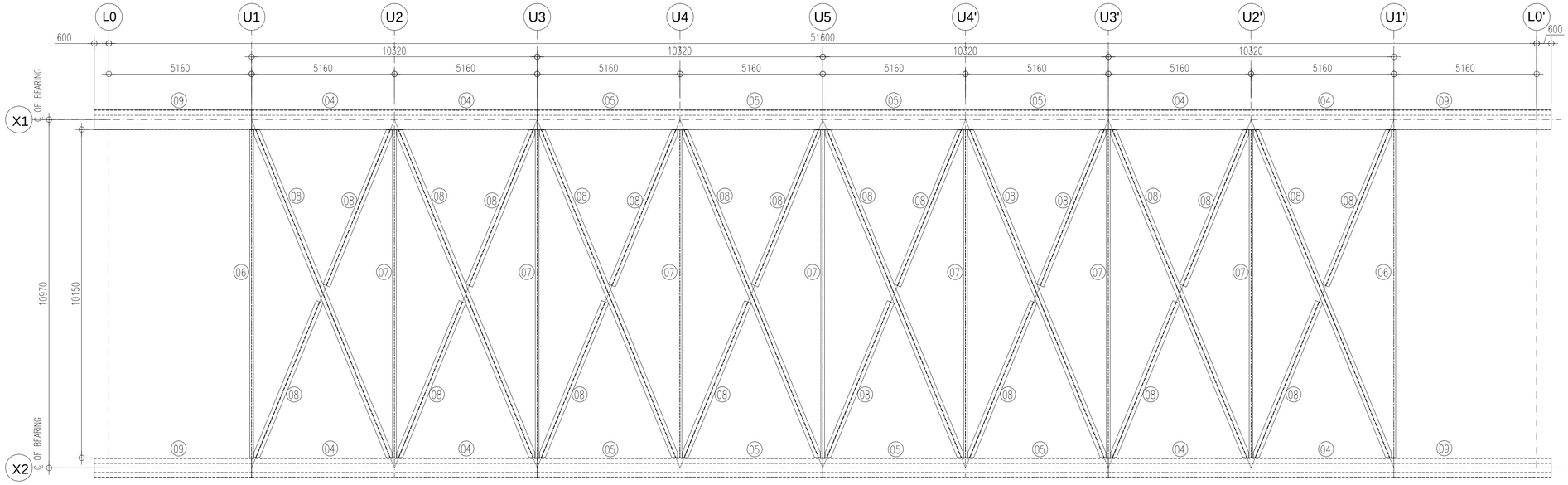
SCALE

DATE
MAY-21

REV.
R2

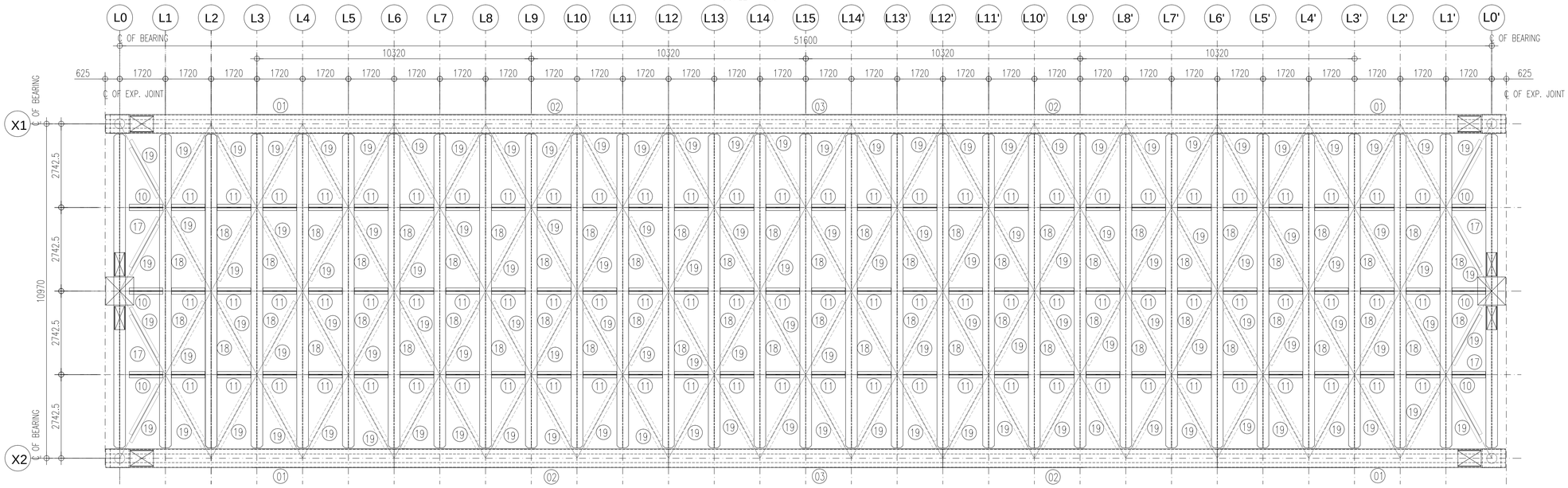
DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-3008

1 OF 1



PLAN AT TOP OF TRUSS

SCALE 1:140



PLAN AT BOTTOM OF TRUSS

SCALE 1:140

NOTES:–

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. DIMENSIONS ARE NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. FOLLOWING GRADE OF CONCRETE SHALL BE USED FOR DIFFERENT COMPONENTS OF BRIDGE :-
   a) DECK SLAB M50
4. THE STRUCTURAL STEEL FOR MAIN GIRDERS AND CROSS GIRDERS SHALL BE WITH GRADE E250 (FE410W) GRADE -BO CONFORMING TO IS:2062.
5. ROUND HEADED STUDS SHALL BE HIGH TENSILE STEEL OF GRADE E350 AS PER IS: 8500.
6. ALL REINFORCEMENTS SHALL BE OF Fe 500D GRADE CONFORMING TO IS:1786.
7. ALL GUSSET PLATES ARE 10mm Thk. UNLESS OTHERWISE SPECIFIED.
8. WELDING SYMBOLS ARE AS PER IS:813.
9. ALL BUTT WELDS TO BE STAGGERED AND SHALL BE X-RAYED TESTED AS PER SPECIFICATIONS.
10. WORKMANSHIP FOR STEEL FABRICATION SHALL BE IN ACCORDANCE WITH IRC :24 AND CLAUSE 1900 OF MORTH SPECIFICATIONS FOR ROAD AND BRIDGE WORKS.
11. HOLES ARE 17.5/19.5/ 25.5 DIA FOR M16/20/24 PERMANENT BOLTS OF HSFG. OF GRADE 10.9 CONFORMING TO IS:4000. UNLESS OTHERWISE SPECIFIED.
12. WELDING SHOULD BE DONE IN ACCORDANCE WITH IS:816 AND IS:9595 AND WELDING CONSUMABLES SHALL CONFORM TO IS:814.
13. TOLERANCE FOR FABRICATION OF STEEL WORK SHALL BE AS PER IS:7195-1974.
14. ALL STEEL MEMBERS ARE TO BE PROVIDED WITH ANTICORROSIVE PAINT AS PER SPECIFICATION.
15. FABRICATION AND ERECTION OF STRUCTURAL STEEL WORKS SHALL CONFORM TO IRC; 24 (SECTION - V) IS ; 7205 - 1074 AND IS ; 7195 - 1074.
16. AUTOMOTED SUBMERGED ARC WELDING SHOULD BE EMPLOYED FOR FILLET WELD IN FLANGE AND WEBS. OTHER WELD SHOULD ALSO BE DONE BY SUBMERGED ARC WELDING TO THE MAXIMUM EXTENT POSSIBLE.
17. DIMENSIONS OF BEARING PLATES SHOULD SUIT AND CONFORM THE DESIGNED DETAILS OF BEARINGS TO BE SUPPLIED BY THE MANUFACTURERS.

TESTING OF STUD SHEAR CONNECTOR

(A) ACCEPTANCE TEST

1. THE WELD TO A STUD SHEAR CONNECTOR SHOULD FORM A COMPLETE COLLAR AROUND THE SHANK AND FREE FROM CRACKS, EXCESSIVE SPLASHES OF WELD MATERIAL, FREE FROM INJURIOUS, LAPS, FINS, SEAMS, TWIST, BENDS OR OTHER INJURIOUS DEFFECTS.
2. WELD MATERIAL SHOULD HAVE A "STEEL BLUE" APPEARANCE

(B) TEST TO CHECK THE FIXING OF SHEAR STUDS

ALL STUD NEED TO BE CHECKED BY RING TEST AND BEND TEST.

1. RING TEST INVOLVES STRIKING THE SIDE OF THE HEAD OF THE STUD WITH A 2 KG HAMMER. A RINGING TONE ACHIEVED AFTER STRIKING INDICATE GOOD FUSION WHEREAS DULL TONE INDICATES A LACK OF FUSION (BS:5400-6)
2. BEND TEST REQUIRES THE HEAD OF THE STUD TO BE DISPLACED LATERALLY BY APPROXIMATE 25% OF ITS HEIGHT USING A 6 KG HAMMER,

* THE WELD SHOULD THEN BE CHECKED FOR SIGNS OF CRACKING OR LACK OF SUSION
* STUD SHOULD NOT BE BENT BACK AS THIS IS LIKELY TO DAMAGE THE WELD
* THE TESTING RATE SHOULD BE 1 IN 50 (BS:6500-6)

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

CIVIL		E&M		S & T	
MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

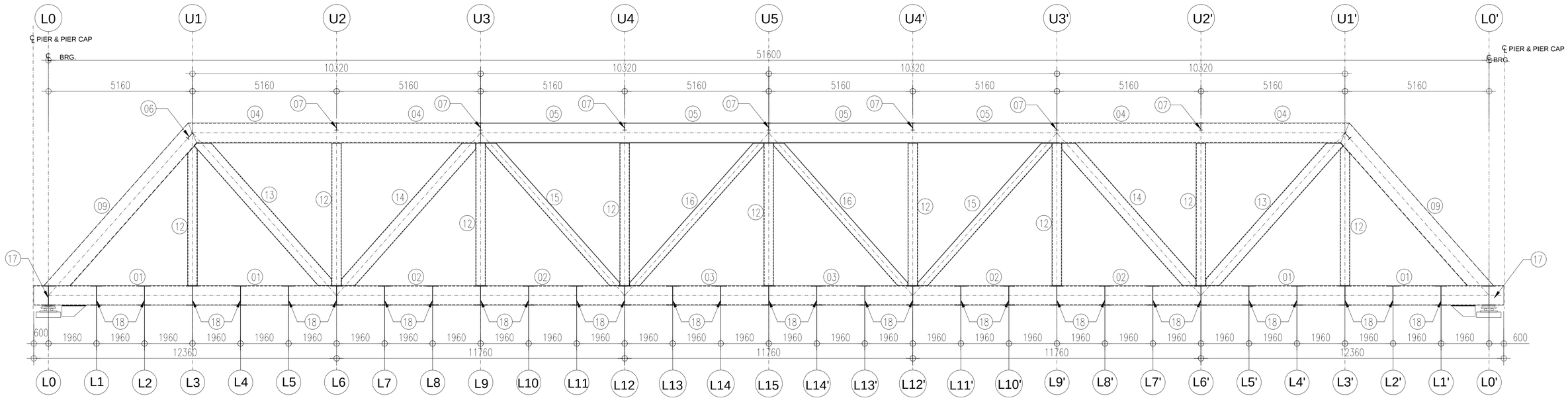
DIMENSION DETAILS OF SUPERSTRUCTURE FOR 54.0M EXP. TO EXP. OPEN WEB GIRDER (WELDED THROUGH TYPE)

SCALE

DATE
MAY-21

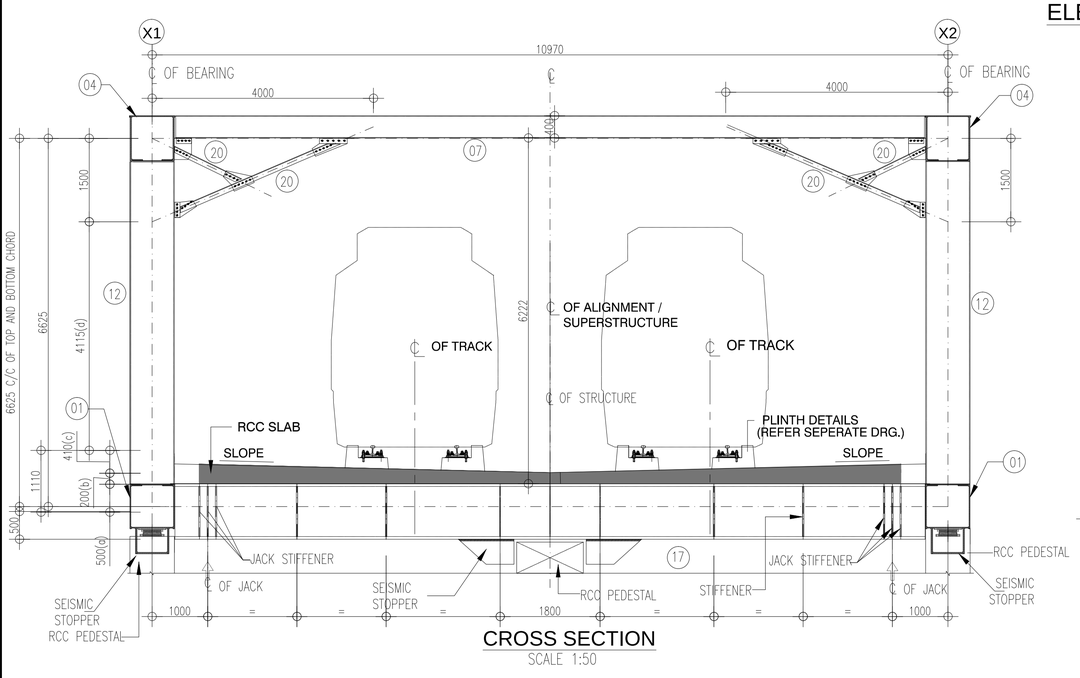
REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-3009



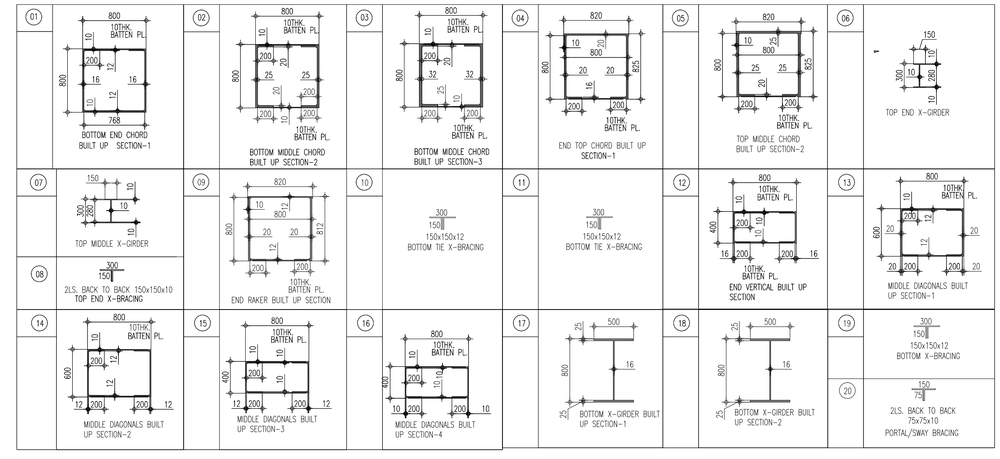
ELEVATION OF TRUSS

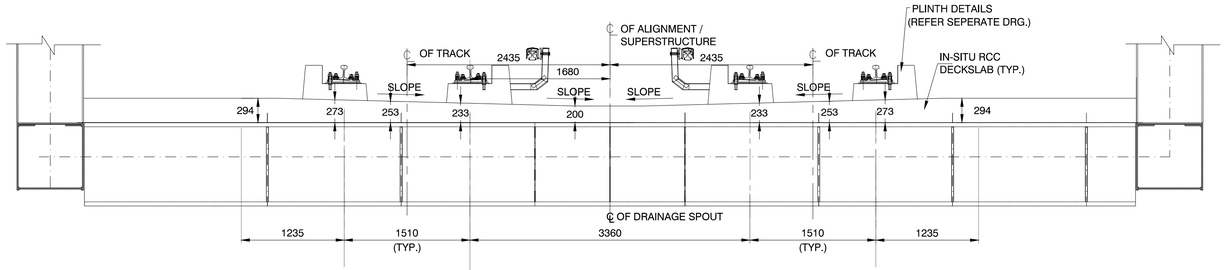
(DECK SLAB NOT SHOWN)
SCALE 1:75



CROSS SECTION

SCALE 1:50





TYPICAL SECTION SHOWING SLAB DIMENSIONS

(SCALE 1 :40)

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A,
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

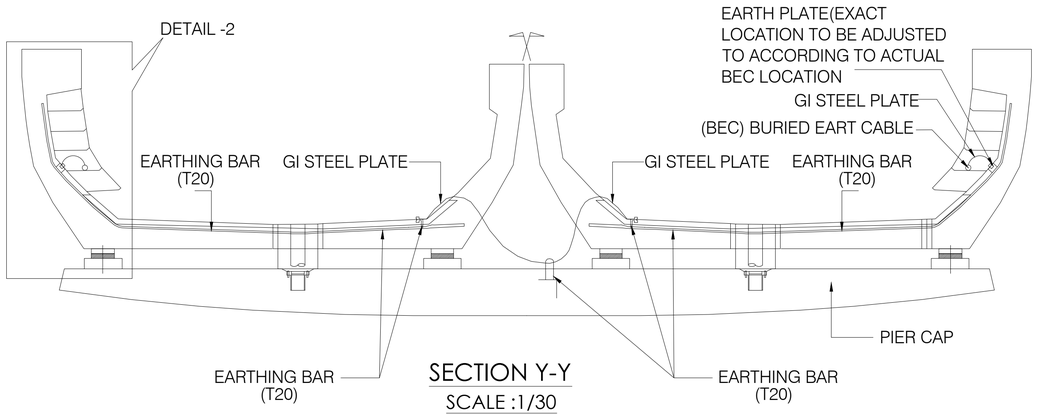
DIMENSION DETAILS OF SUPERSTRUCTURE FOR 54.0M EXP. TO EXP. OPEN WEB GIRDER (WELDED THROUGH TYPE)

SCALE

DATE
MAY-21

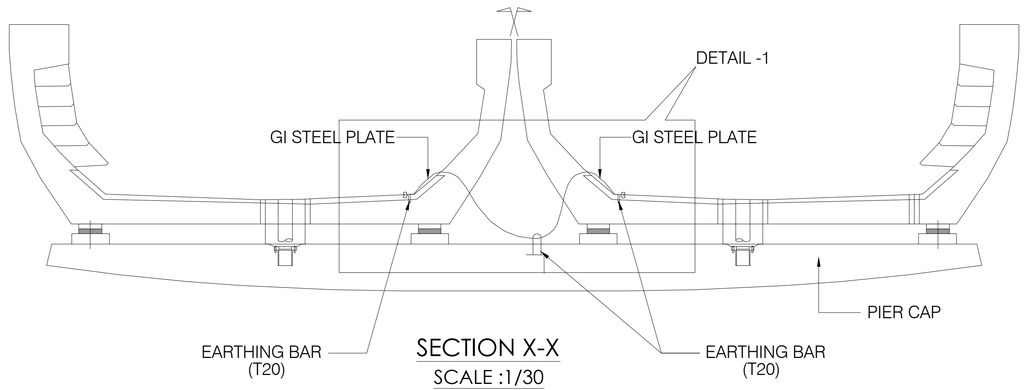
REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-3009



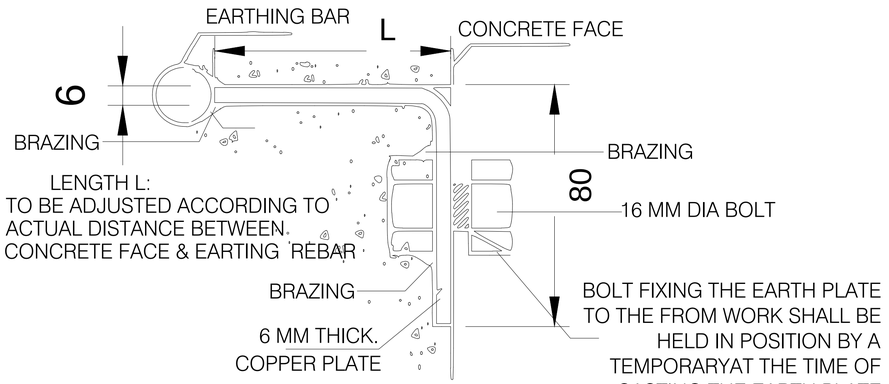
SECTION Y-Y
SCALE :1/30

TYPICAL CROSS SECTION AT PIER
NO CONNECTION TO BEC



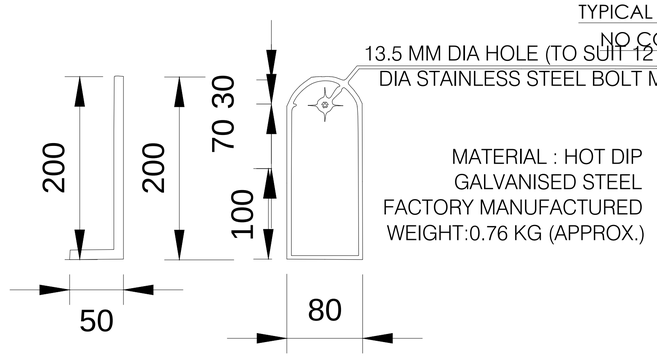
SECTION X-X
SCALE :1/30

TYPICAL CROSS SECTION AT PIER
NO CONNECTION TO BEC



TYPICAL EARTH PLATE DETAIL FOR CONNECTION E1&E3

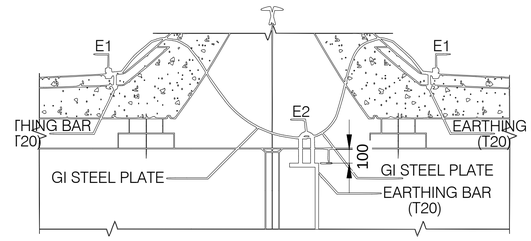
SCALE :1/10



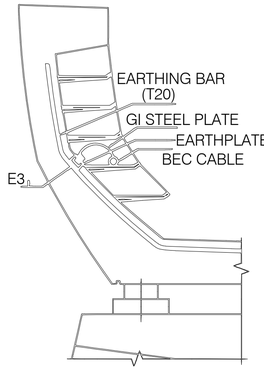
MATERIAL : HOT DIP GALVANISED STEEL
FACTORY MANUFACTURED
WEIGHT:0.76 KG (APPROX.)

TYPICAL EARTH TERMINAL DETAIL FOR CONNECTION E2

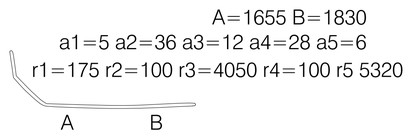
SCALE :1/10



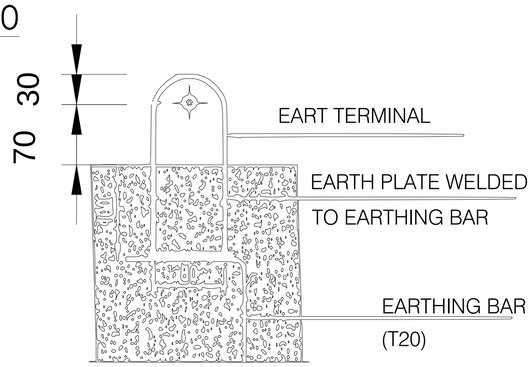
DETAIL -1
SCALE :1/20



DETAIL -2
SCALE :1/20



BAR DETAIL



CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-B-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

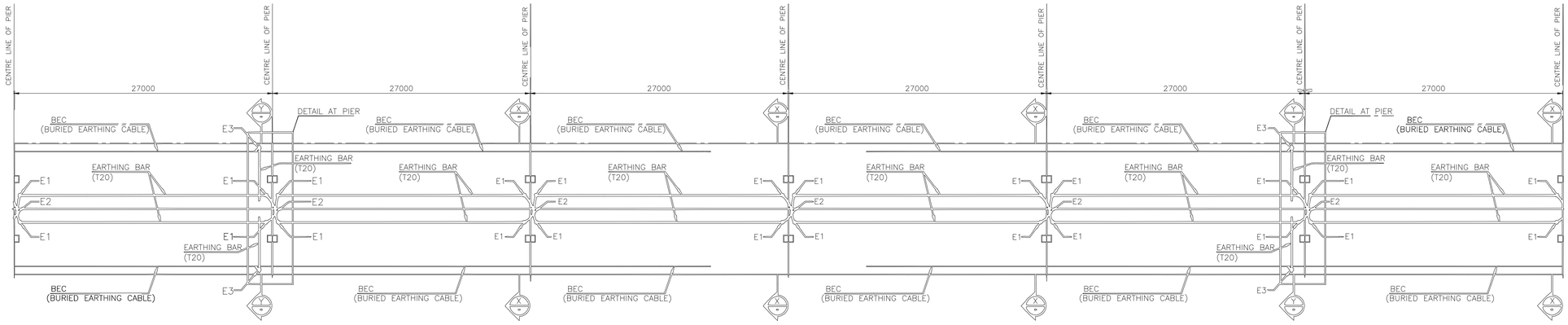
TITLE:
EARTHING ARRAGEMENT SHEET

SCALE

DATE
MAY-21

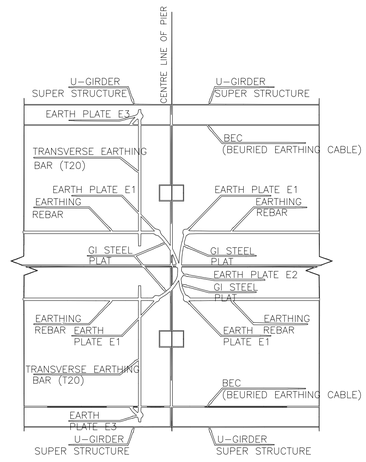
REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-MISC-4001



EARTH PLATE E1:CONNECTING U-BEAM LONGITUDINAL EARTHING TO GI STEEL PLATE.
EARTH PLATE E2:CONNECTING GI STEEL PLATE TO EARTHING REBAR IN PIER CAP.
EARTH PLATE E3:TRANSVERSE EARTHING BAR TO BEC (BURIED EARTHING CABLE).

PLAN VIEW
SCALE:1.150



DETAIL AT PIER
SCALE:1.150

NOTES :-

1) EACH LONGITUDINAL EARTHING BAR SHALL BE CONNECTED TO SUBSTRUCTURE EARTHING SYSTEM AT BOTH ENDS OF THE BAR.
2) CONNECTION OF EARTHING BAR TO BEC(BURIED EARTHING CABLE RUNNING IN CABLE TRAY) SHALL BE MADE AT EVERY 120m LENGTH (MAXIMUM).
3) FLAT GI STEEL PLATE CONNECTING EARTH PLATES SHALL BE MADE OF 40X8mm.
4) CABLE TRAY ARRANGEMENT AND LOCATION OF BEC(BURIED EARTHING CABLE) ARE INDICATIVE ONLY.
5) EARTHING REBARS SHALL NOT BE CONSIDERED WHILE CHECKING STRUCTURAL RESISTANCE OF THE SUPERSTRUCTURE.
6) THE PLAN VIEW ABOVE SHOWS TYPICAL EARTHING SCHEME FOR 4 SUCCESSIVE 27m SPANS. SAME ARRANGEMENT SHALL BE REPEATED FOR NEXT FOUR SPANS.
7) AS A GENERAL PRINCIPLE ALL METALLIC STRUCTURES SHALL BE ELECTRICALLY CONNECTED (WELDED) TOGETHER TO THE EARTHING SYSTEM ENDING IN GROUND.
8) THE PROPOSED EARTHING SCHEME IS INDICATIVE ONLY AND THE CONTRACTOR SHALL PROPOSE ITS OWN PRINCIPAL IN SHOP DRAWINGS.

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
TYPICAL EARTHING ARRANGEMENT

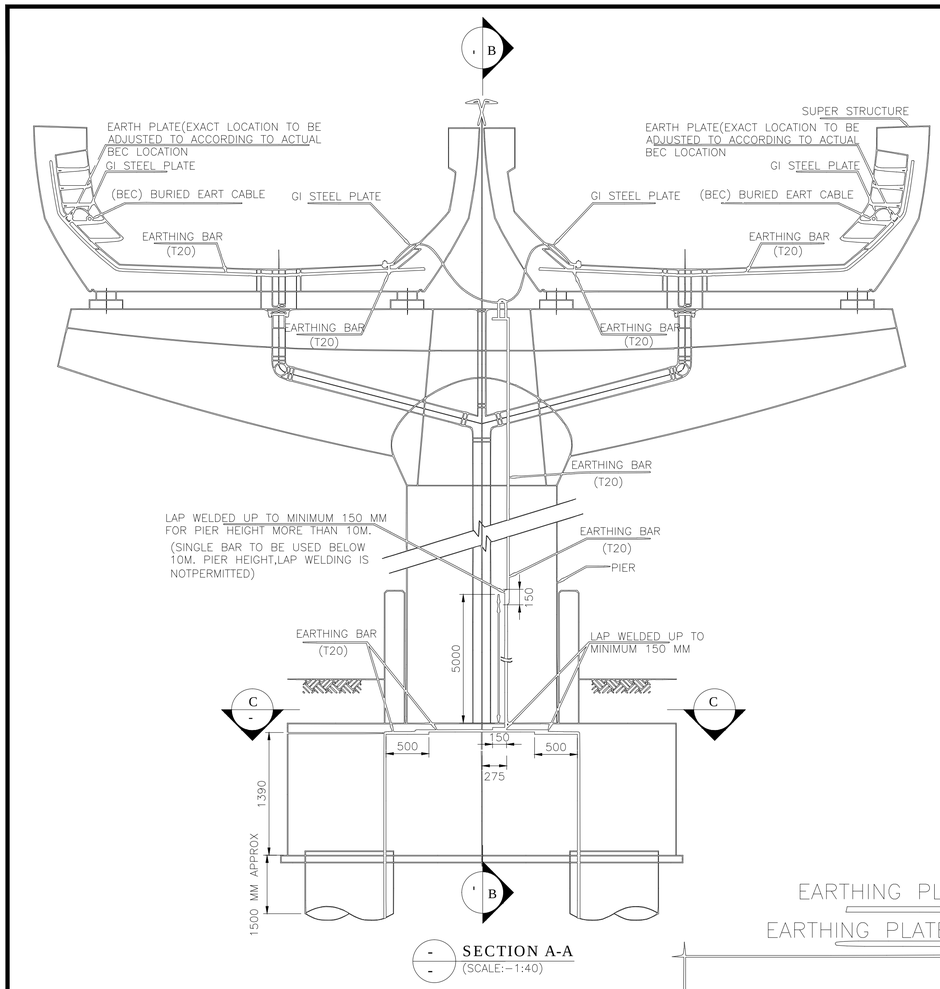
SCALE:

DATE: MAY-21

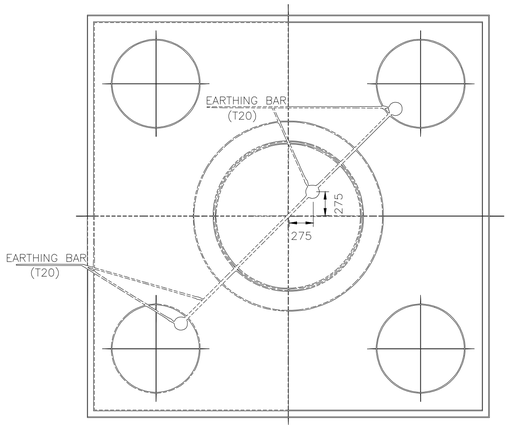
REV.: R2

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-MISC-4002

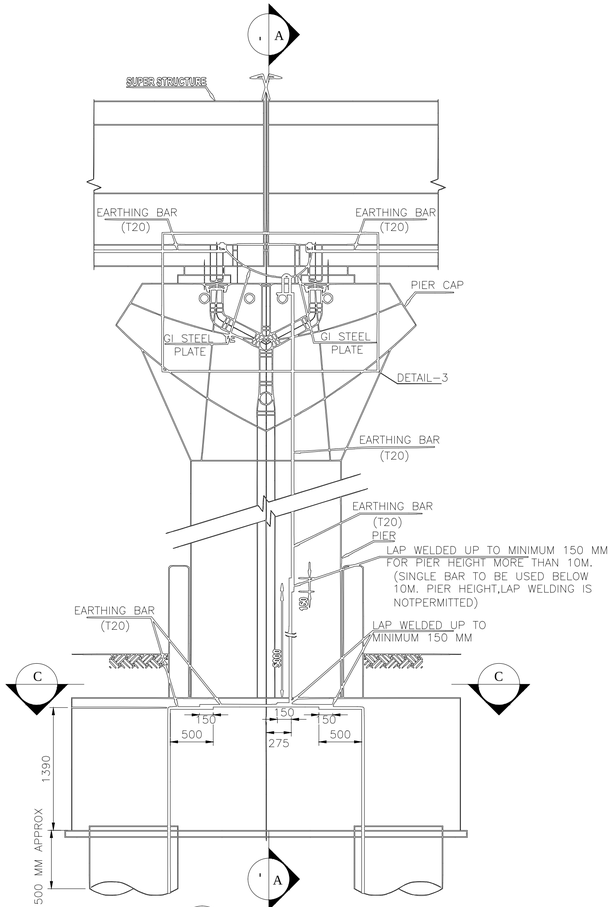
Layout1



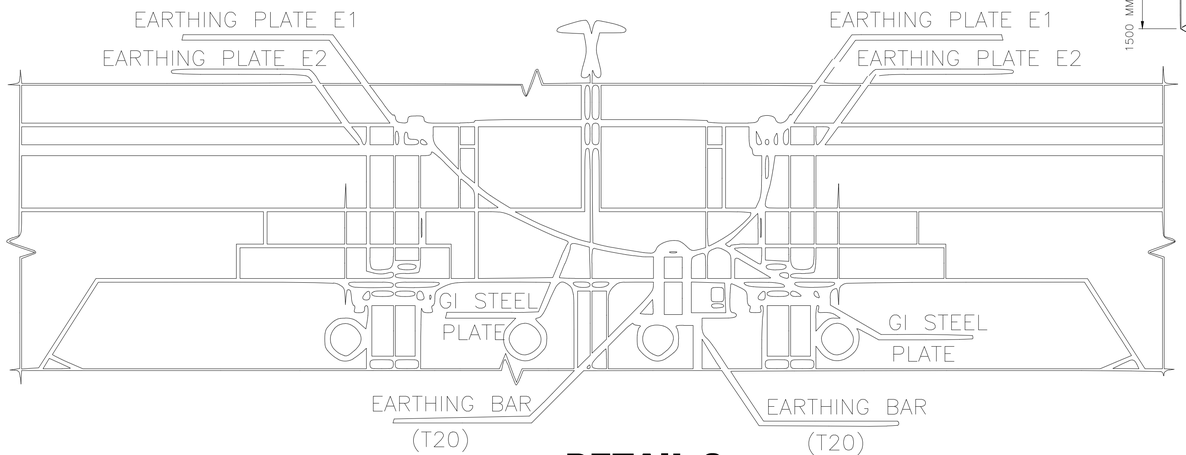
SECTION A-A
(SCALE:-1:40)



SECTION -C-C
(SCALE:-1:40)



SECTION B-B
(SCALE:-1:40)



DETAIL 3
(SCALE:-1:10)

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:
CONTRACT No.NGNDD-01 ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

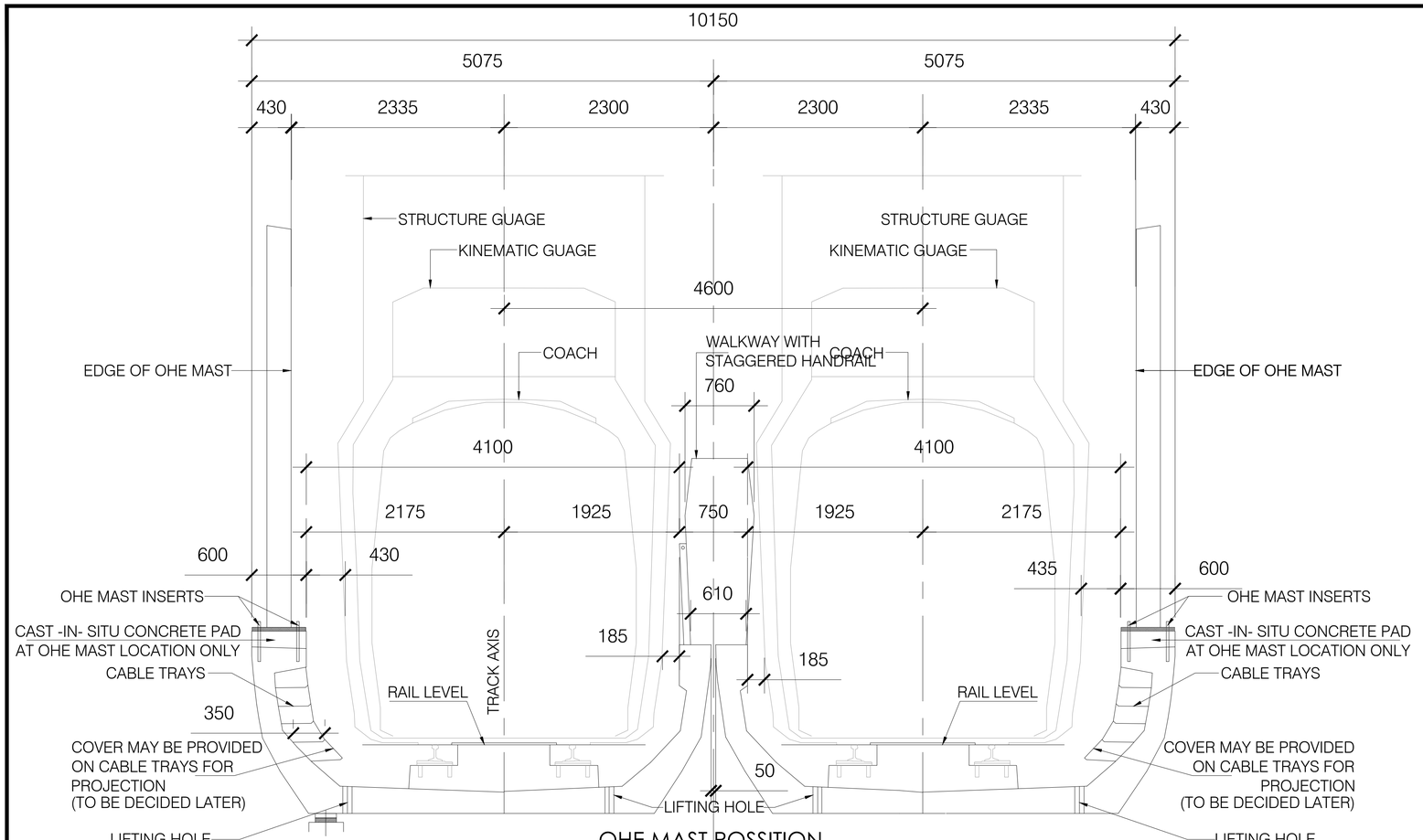
TITLE:
EARTHING ARRAGEMENT

SCALE

DATE
MAY-21

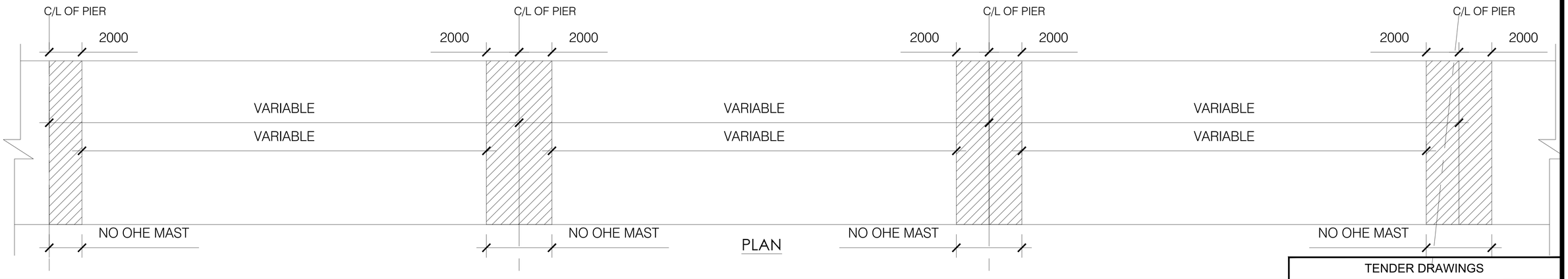
REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-MISC-4003



OHE MAST POSSITION

SCALE :1/30



PLAN

NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETER.
2. ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
3. THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, STRUCTURAL,PLUMBING & FIRE FIGHTING,ELECTRICAL AND TRAFFIC MANAGEMENT DRAW
4. ANY DISCREPANCIES MUST BE BROUGHT TO THE NOTICE OF THE CONSULTANTS.

IMP NOTES:-

NO OHE MAST SHALL BE FIXED WITHIN 2.0M ON EITHER SIDE OF PIER AXIS.

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
OHE MAST ANCHORES

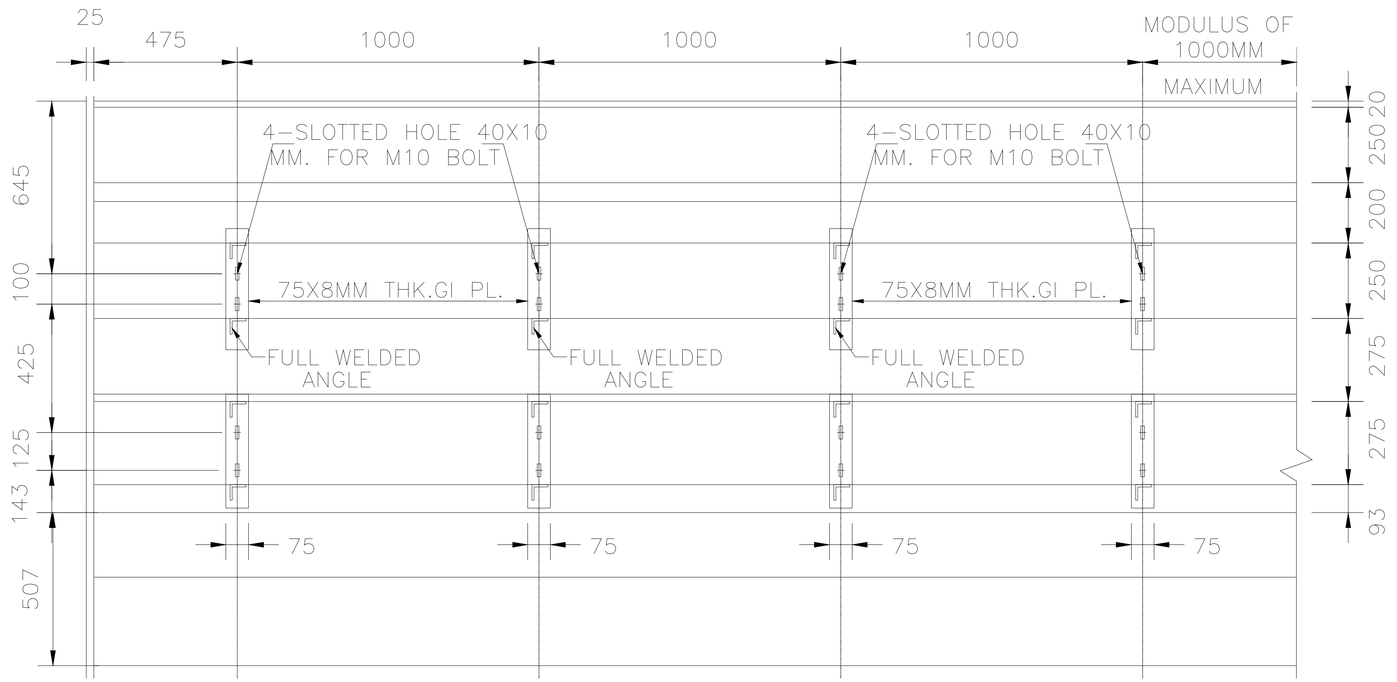
SCALE

DATE
MAY-21

REV.
R2

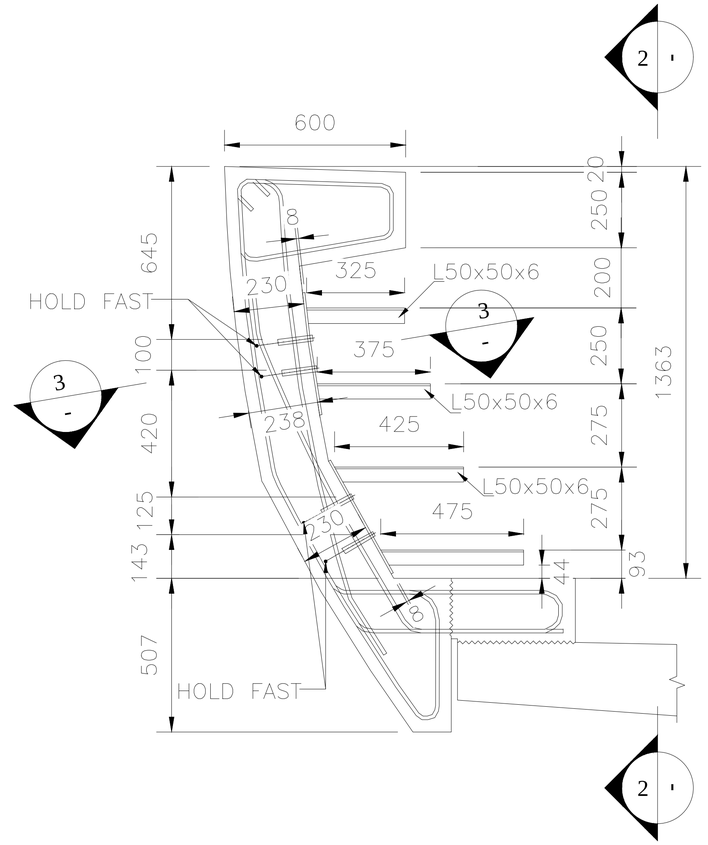
DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-MISC-4004

1 OF 1



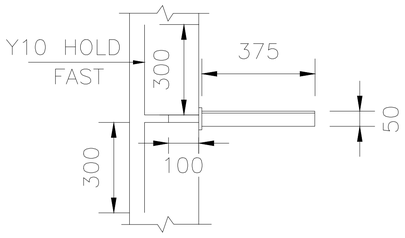
ELEVATION-2-2

SCALE:1/10



SECTION -1-1

SCALE:1/10



SECTION 3-3

SCALE:1/10

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

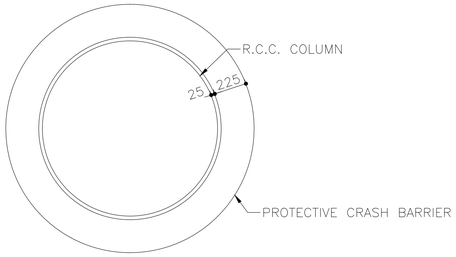
CABLE TRAY DETAIL

SCALE

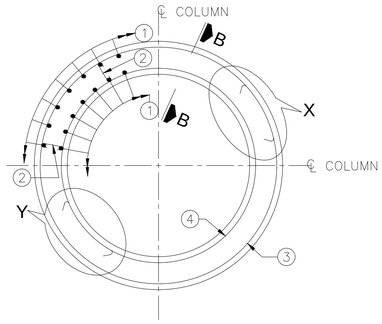
DATE
MAY-21

REV.
R2

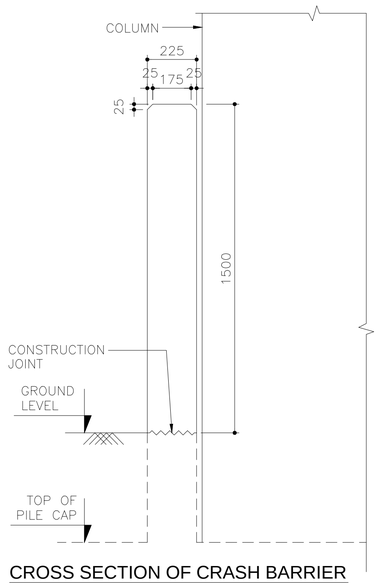
DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-MISC-4005 1



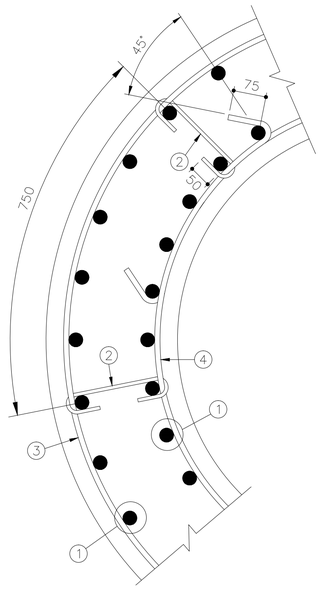
AROUND CIRCULAR COLUMN
(SCALE 1:30)



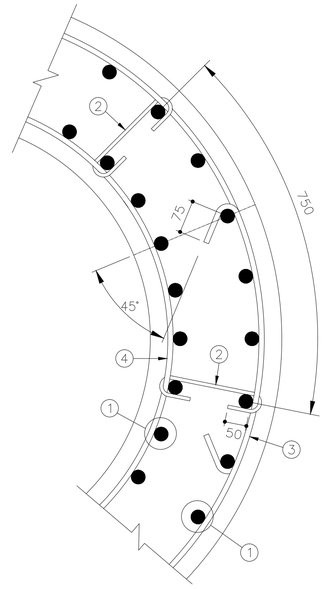
REINF. DETAILS OF CRASH BARRIER
AROUND CIRCULAR COLUMN
(SCALE 1:30)



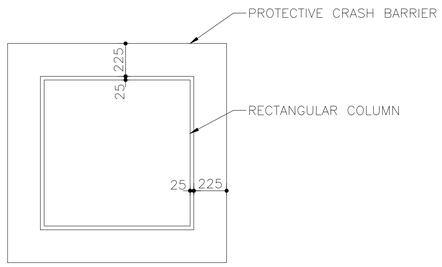
CROSS SECTION OF CRASH BARRIER
(SCALE 1:20)



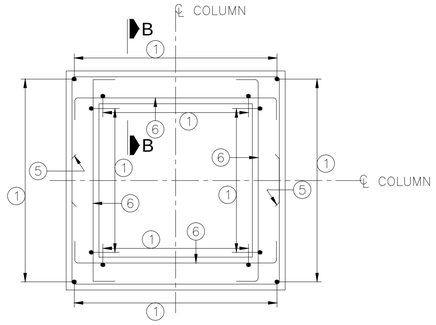
DETAIL-Y
(SCALE 1:10)



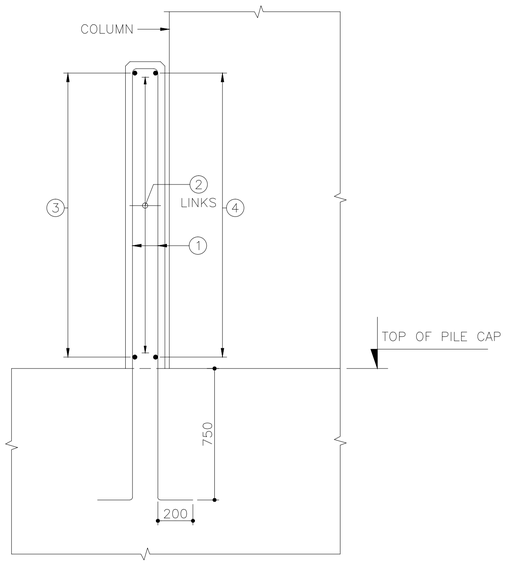
DETAIL-X
(SCALE 1:10)



AROUND RECTANGULAR COLUMN
(SCALE 1:30)



REINF. DETAILS OF CRASH BARRIER
AROUND RECTANGULAR COLUMN
(SCALE 1:30)



SECTION B-B
(SHOWING REINFORCEMENT)
(SCALE 1:25)

BAR (2) SHALL ENGAGE THE VERTICAL BAR (1) AS WELL AS THE BAR (3) & (4) AS SHOWN IN DETAIL X & Y

SUGGESTED CONSTRUCTION SEQUENCE OF CRASH BARRIER

STAGE–1 BAR (1) TO BE LEFT WHILE CASTING OF PILE CAP.

STAGE–2 POSITION BAR (2) (3) & (4) AND CAST THE CRASH BARRIER

STAGE–3 BACK FILL THE EXCAVATED PORTION UPTO GROUND LEVEL/ FINISHED ROAD LEVEL.

REINFORCEMENT DETAILS:

BAR MKD.	DIA	SPACING/NOS.	SHAPE
1	12	150 c/c	
2	8	750 c/c (HORIZONTAL) 400 c/c (VERTICAL)	LINKS
3	10	200 c/c	
4	10	200 c/c	
5	10	200 c/c	
6	10	200 c/c	

NOTES:

1. ALL DIMENSIONS ARE IN MM.
2. DO NOT SCALE THE DIMENSIONS. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ALL H.Y.S.D. BARS SHALL CONFORM TO IS:1786 GRADE Fe–500.
4. GRADE OF CONCRETE FOR CRASH BARRIER : M–30
5. MINIMUM CLEAR COVER TO ANY REINFORCEMENT SHALL BE 40 mm.
6. LAP LENGTH SHALL BE 46 TIMES DIA OF BAR.

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-45565814-18
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
DETAILS OF PROTECTIVE CRASH BARRIER AROUND COLUMNS

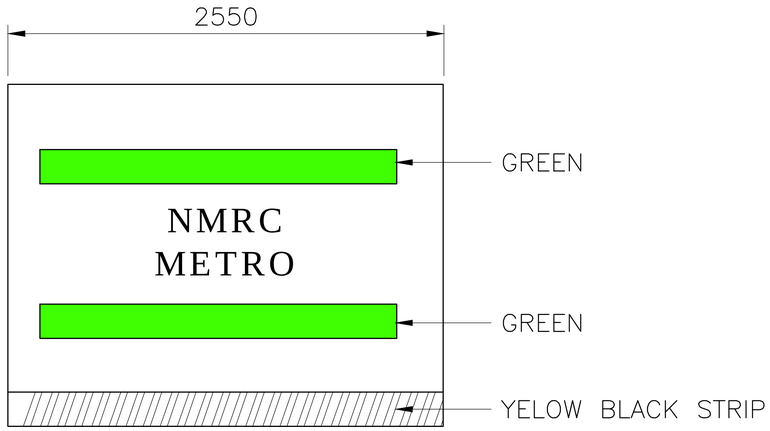
SCALE

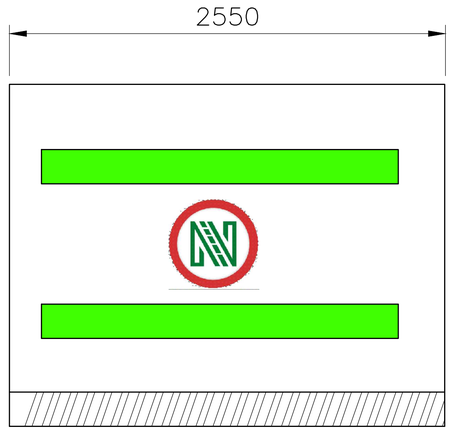
DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-MISC-4006

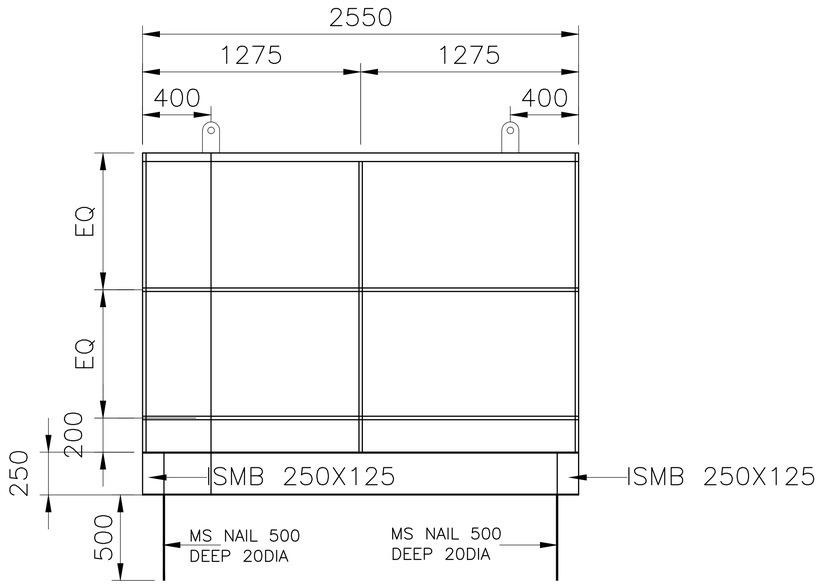
1 OF 1





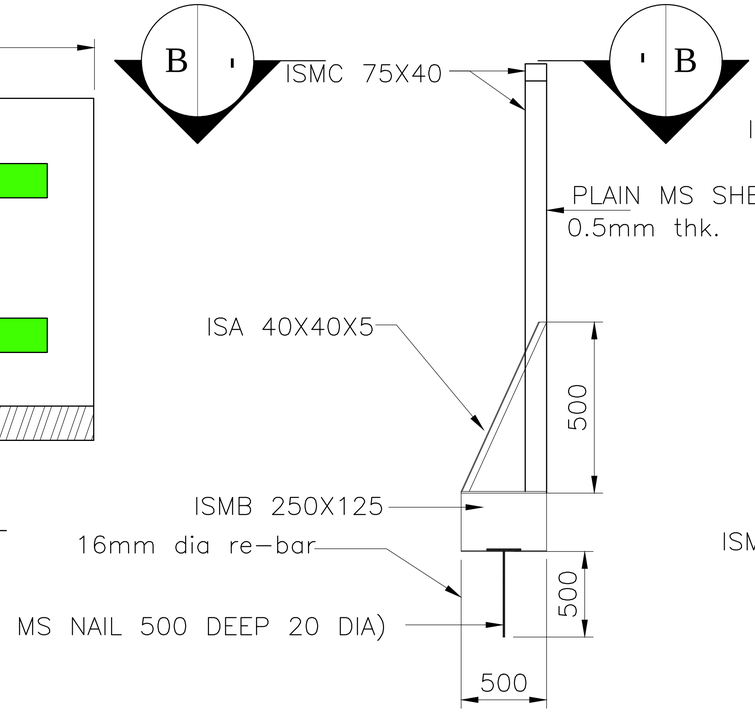
ELEVATION ONE UNIT OF TEMPORARY BARRICADING

(SCALE:–1:10)



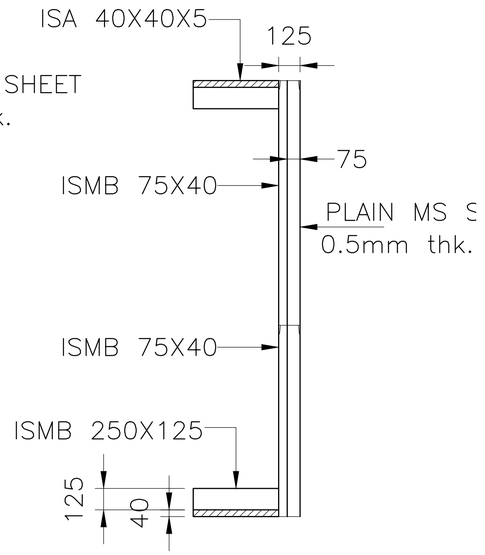
DETAIL OF TEMPORARY BARRICADING

(SCALE:–1:10)



VIEW A-A

(SCALE:–1:10)



VIEW B-B

(SCALE:–1:10)

NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETERS, AND LEVELS IN METERS UNLESS DTHERWISE SPECIFIED
2. DIMENSIONS SHALL NOT TO BE SCALED, FROM DRAWING ANY DOUBTS REFFER TO THE ENGINE–IN–CHARGE

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
TYPICAL DRAWING OF BARRICADING

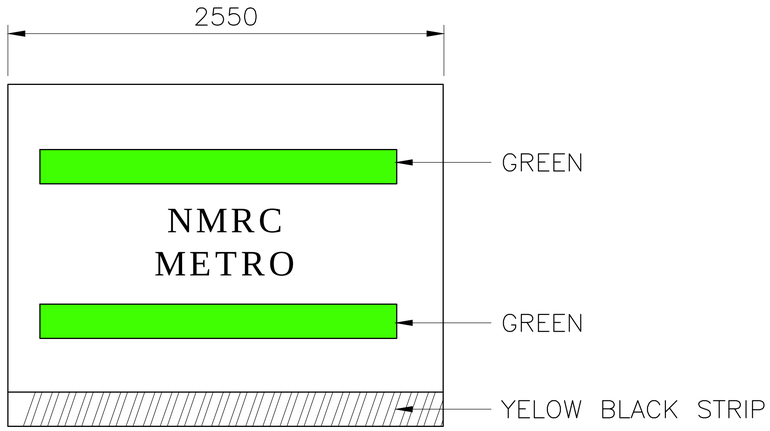
SCALE

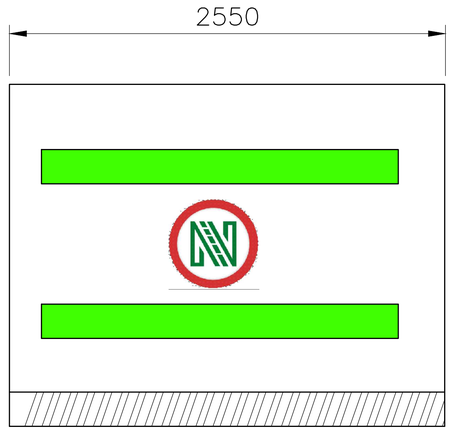
DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-MISC-4007

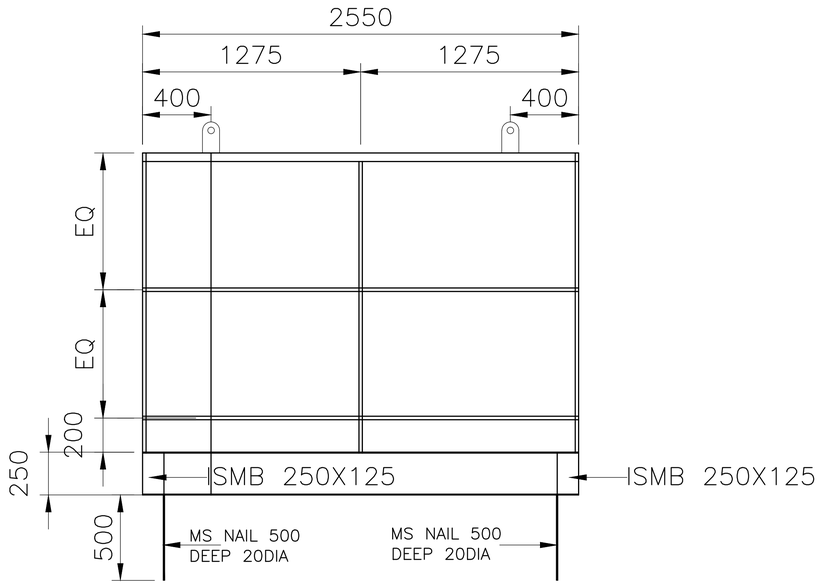
1 OF 1





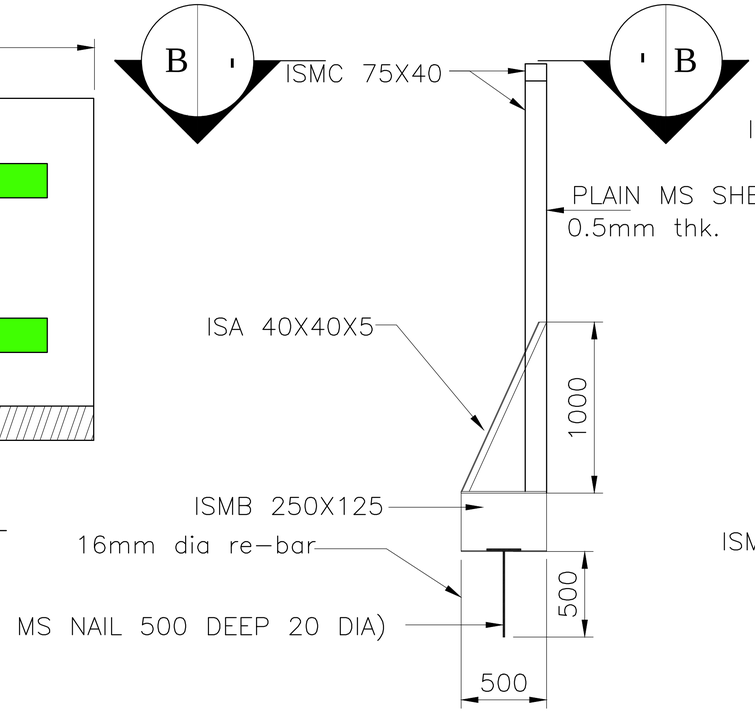
ELEVATION ONE UNIT OF TEMPORARY BARRICADING

(SCALE:–1:10)



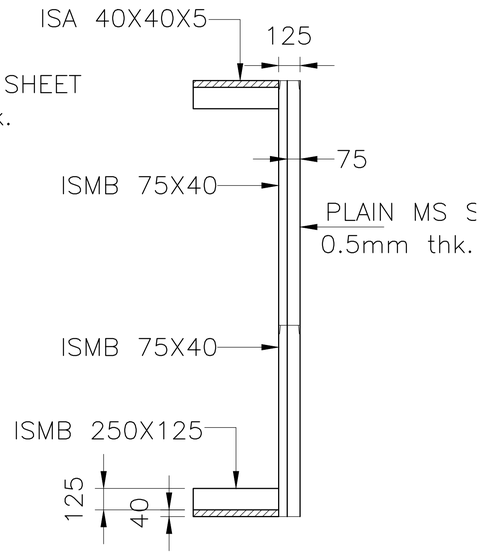
DETAIL OF TEMPORARY BARRICADING

(SCALE:–1:10)



VIEW A-A

(SCALE:–1:10)



VIEW B-B

(SCALE:–1:10)

NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETERS, AND LEVELS IN METERS UNLESS DTHERWISE SPECIFIED
2. DIMENSIONS SHALL NOT TO BE SCALED, FROM DRAWING ANY DOUBTS REFFER TO THE ENGINE–IN–CHARGE

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		30-May-21
CHECKED BY	NISHANK		30-May-21
DESIGNED BY	ARVIND / VIBHAS		30-May-21
DRAWN BY	GAURAV		30-May-21

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS	24-05-21	
R01	GENERAL COMMENTS	26-09-20	

TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
TYPICAL DRAWING OF 2.0m HEIGHT BARRICADING

SCALE

DATE
MAY-21

REV.
R2

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-MISC-4008

1 OF 1

NOIDA METRO RAIL CORPORATION LTD.

BLOCK-III, 3rd Floor, Ganga Shopping Complex, Sector-29, Noida-201301

CONTRACT No.NGNC-01 ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA- GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

CONTRACT No.NGNC-01
E TENDER NO.- NMRC/CIVIL/NGNC/149/2021
TENDER DRAWINGS
ARCHITECTURAL DRAWING OF TYPICAL STATION
VOL - V

MAY -2021

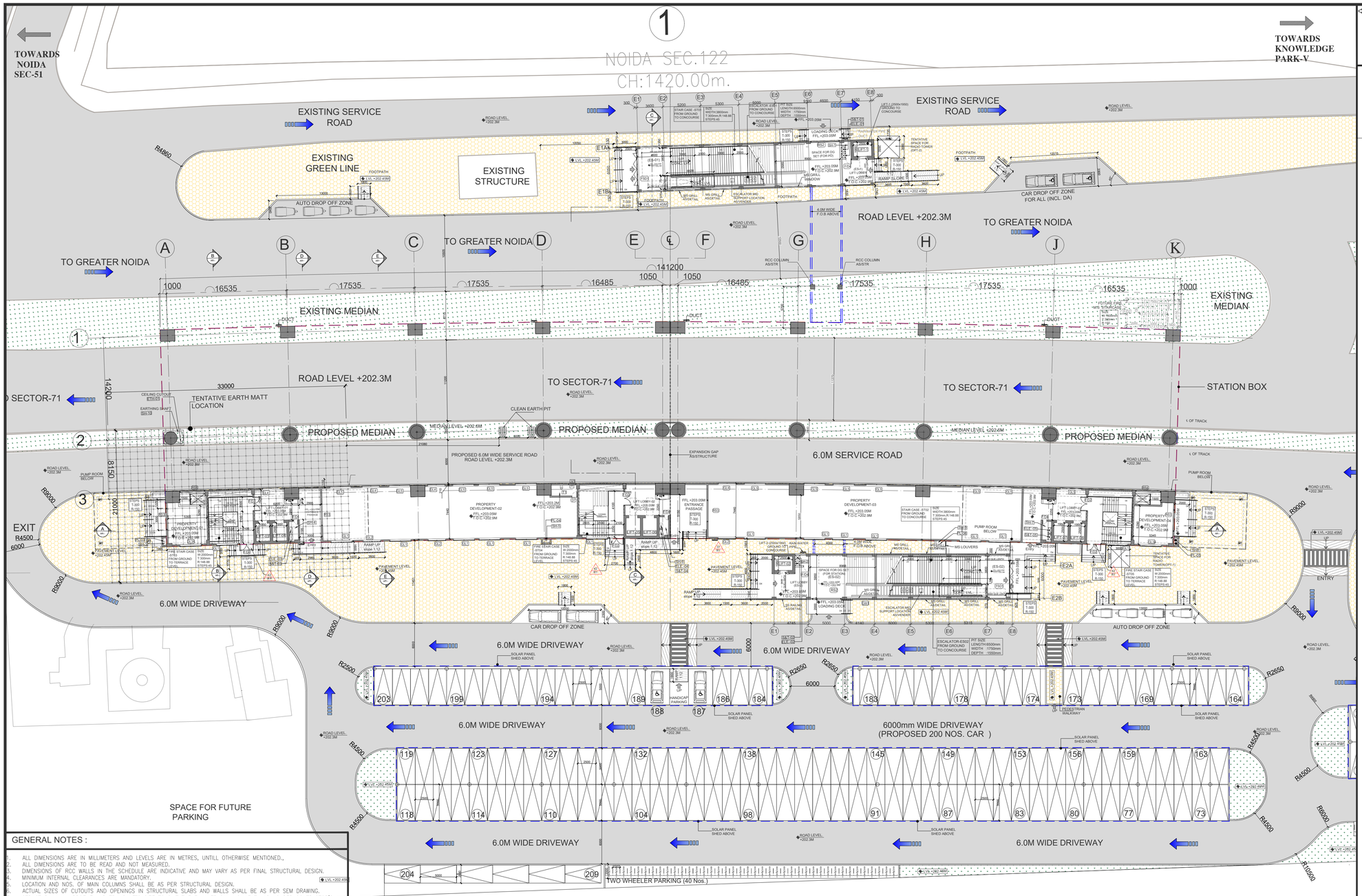
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

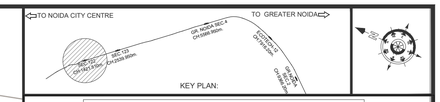
LIST OF TENDER DRAWING R02

(ARCHITECTURAL DRAWING)

TYPICAL STATION

S.NO.	DRAWING TITLE	DRAWING NO.	REVISION
1	GROUND/STREET LEVEL PLAN	NGNDD-01-LKT-NMRC-ST-XX-TD-GR-AR-1002	R02
2	PUMP ROOM LAYOUT	NGNDD-01-LKT-NMRC-ST-XX-TD-GR-AR-1002A	R02
3	CONCOURSE LEVEL PLAN	NGNDD-01-LKT-NMRC-ST-XX-TD-CL-AR-1003	R02
4	PLATFORM LEVEL PLAN	NGNDD-01-LKT-NMRC-ST-XX-TD-PL-AR-1004	R02
5	PD-1 LEVEL PLAN	NGNDD-01-LKT-NMRC-ST-XX-TD-PD-AR-1005	R02
6	PD-2 LEVEL PLAN	NGNDD-01-LKT-NMRC-ST-XX-TD-PD-AR-1006	R02
7	TERRACE LEVEL PLAN	NGNDD-01-LKT-NMRC-ST-XX-TD-TR-AR-1007	R02
6	MUMTY LEVEL PLAN WITHOUT FUTURE PD	NGNDD-01-LKT-NMRC-ST-XX-TD-TR-AR-1008	R02
7	MUMTY LEVEL PLAN WITH FUTURE PD	NGNDD-01-LKT-NMRC-ST-XX-TD-TR-AR-1009	R02
8	SECTION A-A AND SCETION B-B	NGNDD-01-LKT-NMRC-ST-XX-TD-SEC-AR-1008	R02
9	SECTION C-C AND SCETION D-D	NGNDD-01-LKT-NMRC-ST-XX-TD-SEC-AR-1009	R02
10	SECTION E-E	NGNDD-01-LKT-NMRC-ST-XX-TD-SEC-AR-1010	R02
11	PART SECTION	NGNDD-01-LKT-NMRC-ST-XX-TD-SEC-AR-1011	R02





LEGEND :-

PROPOSED STATION BOX

LEGEND :-

- BLOCK WORK
- R.C.C. WORK
- EARTH PIT
- FILLED UP FLOOR
- RAISED FLOOR
- FLOOR FINISH
- TWO HRS FIRE RATED WALL
- SEC/ELEV NAME
- DRAWING NUMBER

ABBREVIATIONS

EFO	EXCESS FARE OFFICE
FFL	FINISHED FLOOR LEVEL
CONC.	CONCOURSE
TVM	TICKET VENDING MACHINE
TOC	TOP OF CONCRETE
FHC	FIRE HOSE CABINET
TOM	TICKET OPERATING MACHINE
ESC	ESCALATOR
S&T	SIGNALING AND TELECOM
EL	ELECTRICAL
PL	PLUMBING
PHE	PLUMBING SERVICES

WINDOW SCHEDULE

S NO.	WINDOW NO.	WIDTH	HEIGHT	SILL HEIGHT	LINTEL HEIGHT	REMARKS
1	GL1	3000	11340	--	--	GROUN & CONCOURSE
2	GL2	2500	11340	--	--	GROUN & CONCOURSE
3	GL3	3000	5000	--	--	GROUN & CONCOURSE
4	GL3A	2000	5000			GROUN & CONCOURSE
5	GL4	2500	4000	--	--	CONCOURSE
6	GL5	3000	4000	--	--	CONCOURSE
7	GL6	3000	9000	--	--	PD-1&2
8	GL7	2500	9000			PD-1&2
9	GRC1	3000	4500	--	--	PLATFORM
10	GRC2	2500	4500			PLATFORM
11	V1	1000	600	2100	2700	TOILET & CLEANERS ROOM
12	V2	1000	600	2100	2700	ASS ROOM
13	V3	600	600	2100	2700	JANITOR'S ROOM

DOOR SCHEDULE

S NO.	DOOR NO.	OPENING WIDTH	OPENING HEIGHT	PANEL	FIRE RESISTANCE IN HRS.	LOCATION
1	F/D1	2400	2400	DOUBLE LEAF	TWO HOURS	ASS ROOM & CORRIDOR
2	F/D2	2000	2400	DOUBLE LEAF	TWO HOURS	FIRE EXIT DOOR
3	F/D3	1800	2400	DOUBLE LEAF	TWO HOURS	TECHNICAL ROOMS
4	F/D4	750	2000	SINGLE LEAF	TWO HOURS	FIRE SHAFT
5	FSD1	3000	4000	FOLDING DOOR	- - -	GROUND STATION ENTRY
6	FSD2	3000	4000	FOLDING DOOR	- - -	CONCOURSE STATION ENTRY
7	FGD1	3000	2400	GLAZED DOOR	TWO HOURS	PD ENTRY EXCEPT G.F.
8	D01	2000	2400	DOUBLE LEAF	- - -	TERRACE & MESS ROOM
9	D02	1500	2100	DOUBLE LEAF	- - -	STORAGE ROOM
10	D03	1200	2100	DOUBLE LEAF	- - -	TOILET
11	D04	1000	2100	SINGLE LEAF	- - -	U05,U06,U07,U09,U12,U14/16,U21
12	D05	900	2100	SINGLE LEAF	- - -	CASH SECURITY
13	D06	900	2100	SINGLE LEAF	- - -	TOILET
14	D07	750	2100	SINGLE LEAF	- - -	TOILET
15	D08	600	2000	SINGLE LEAF	- - -	PLUMBING SHAFT
16	D09	1200	2100	SINGLE LEAF	- - -	PSB
17	RS1	4000	3500	ROLLING SHUTTER	- - -	ASS ROOM
18	RS2	4000	2700	ROLLING SHUTTER	- - -	DG ROOM
19	RS3	3000	2700	ROLLING SHUTTER	- - -	GROUND PD ENTRY
20	RS4	3000	2700	ROLLING SHUTTER	- - -	PUMP ROOM `ACCESS HATCH

ROOM AREA SCHEDULE

S.NO.	NOMENCLATURE	DESCRIPTION	LENGTH (M)	WIDTH (M)	TOTAL BUILT-UP AREA PROVIDED (SQ.MT.)	FLOOR	CEILING
1.	ES-01 (ENTRY/EXIT STRUCTURE)	STAIRCASE-1/LIFT-1/ ESCALATOR-01/LIFT LOBBY & SHAFT	-	-	209.26	-	-
2.	ES-02 (ENTRY/EXIT STRUCTURE)	STAIRCASE-2/LIFT-2/ ESCALATOR-02/LIFT LOBBY & SHAFT	-	-	209.26	-	-
3.	(PROPERTY DEVELOPMENT PD-1,2,3&PD-4	STAIRCASE-3,4 & 5/LIFT-2-3,4-5,6-7/ LIFT LOBBY & SHAFT,PD TOILET ,PD AREA	-	-	1067.9	-	-
		TOTAL BUILT-UP AREA ON GROUND FLOOR			1277.55 sq.mt.		

SHAFT SCHEDULE

S NO.	SHAFT CODE	SHAFT SIZE	CUT OUT CODE	CUT OUT SIZE	CUT OUT IN SLAB GR	CONC	PL	PD-1PD-2	TL	SHAFT LOCATION
1	SH-1	1350x2250	ELE-01	600x650		X				GROUND - CONC.
			S&T-01	600x650		X				
2	SH-2	1920x1450	ELE-02	700x625		X				GROUND - CONC
			S&T-02	700x625		X				
3	SH-3 DUCT	700x1400	PL-03	500x1000	X	X	X	X	X	GROUND - TERRACE
4	SH-4	1250x2800	ELE-03	450x750	X	X	X	X	X	GROUND - TERRACE
			S&T-03	450x750	X	X	X	X	X	
5	SH-5 DUCT	1400x700	PL-04	1000x500	X	X	X	X	X	GROUND - TERRACE
6	SH-6	1250x2800	ELE-04	450x750			X			CONC. - PLATFORM
			S&T-04	450x750			X			
7	SH-7	1250x2800	ELE-05	450x750	X	X	X	X	X	CONC. - TERRACE
			S&T-05	450x750	X	X	X	X	X	
8	SH-8 DUCT	700x1400	PL-05	500x1000	X	X	X	X	X	GROUND - TERRACE
9	SH-9 DUCT	1600x1000	PL-06	1200x800		X				GROUND - CONCOURSE
10	SH-10	AS/PLAN	ETH-01	850x325		X				GROUND - CONCOURSE
11	SH-11	1200x2515	ELE-06	450x925			X			CONCOURSE-PLATFORM
			S&T-06	450x925			X			
12	SH-12	1200x2550	ELE-07	450x925			X			CONCOURSE-PLATFORM
			S&T-07	450x925			X			

NOTE:-GR=GROUND,CONC.=CONCOURE,PL.=PLATFORM,TL=TERRACE

LIFT SCHEDULE

S NO.	LIFT CODE	CUT OUT SIZE	LOCATION
1	LIFT-01	2500x1950	GR TO CONC.
2	LIFT-02	2500x1950	GR TO CONC.
3	LIFT-03	1950x2500	GR TO TL.
4	LIFT-04	1950x2500	GR TO TL.
5	LIFT-05	1950x2500	GR TO TL.
6	LIFT-06	1950x2500	GR TO TL.
7	LIFT-07	1950x2500	GR TO TL.
8	LIFT-08	1950x2500	GR TO TL.
9	LIFT-09	2550x2150	CONC. TO PL.
10	LIFT-10	2550x2150	CONC. TO PL.

STAIR CASE SCHEDULE

STAIRCASE NO.	WIDTH	LOCATION
ST-01	3800	GR. TO CONC.
ST-02	3800	GR. TO CONC.
ST-03	2000	GR. TO TL.
ST-04	2000	GR. TO TL.
ST-05	2000	GR. TO TL.
ST-06	4500	CONC. TO PL.
ST-07	3600	CONC. TO PL.
ST-08	3600	CONC. TO PL.
ST-09	4500	CONC. TO PL.

GENERAL NOTES :

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METRES, UNTILL OTHERWISE MENTIONED.,
2. ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
3. DIMENSIONS OF RCC WALLS IN THE SCHEDULE ARE INDICATIVE AND MAY VARY AS PER FINAL STRUCTURAL DESIGN.
4. MINIMUM INTERNAL CLEARANCES ARE MANDATORY.
5. LOCATION AND NOS. OF MAIN COLUMNS SHALL BE AS PER STRUCTURAL DESIGN.
6. ACTUAL SIZES OF CUTOUTS AND OPENINGS IN STRUCTURAL SLABS AND WALLS SHALL BE AS PER SEM DRAWING.
7. STRUCTURAL WALL PROFILE AND TBM SHAFTS SIZE TO SUIT THE FINAL TRACK ALIGNMENT AND AS PER CONTRACTOR'S DESIGN.
8. WHEREVER INTERNAL PARTITION WALLS ARE INDICATED AS RCC WALLS, IT SHALL BE MANDATORY TO FOLLOW THE RCC WALL OF SPECIFIED THICKNESS..
9. ESCALATOR AND LIFT SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT.
10. FHC NICHE SHOULD BE MADE AS PER FIRE DRAWINGS.
11. LOCATION AND SIZE OF TEMPORARY CUTOUT FOR EQUIPMENT LOWERING SHALL BE CONFIRMED BY SYSTEMWIDE CONTRACTOR.
12. CLEAR HEIGHTS GIVEN IN SECTIONS ARE SUBJECT TO STRUCTURAL DESIGNS.
13. ESCALATOR AND LIFT SIZES ARE INDICATIVE AND FINAL SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT.
14. REFER VENDOR AND FABRICATOR DRAWING FOR ALL FINAL TERMINATION AND FIXING DETAIL.

* PROJECTIONS NEED TO BE TAKEN INTO CONSIDERATION AT TIME OF CONSTRUCTION FOR FUTURE CONSTRUCTABILITY.

TENDER DRAWING

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:
CONTRACT No.NGNDD-01 ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		25.05.2021
CHECKED BY	JANNU TYAGI		25.05.2021
DESIGNED BY	NAINA CHOHAN		25.05.2021
DRAWN BY	SHISHUPAL		25.05.2021

NO OBJECTION BY NMRC LTD.

MGR (Arch)	DGM (E&M)	DGM (S&T)
DGM (Design)	DGM (RS)	DGM (TEL/AFC)
GM (D&P)	SDGM (P&T)	
MGR (TRACK)	GM (RS&E)	SDGM (S&T)
DGM (CIVIL)		GM (S&T)
JGM (Civil)		
GM (Projects)		
CIVIL	E&M	S & T

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)	MGR-1 (E&M)	MGR (SIG.)
CA (Arch.)	MGR-2 (E&M)	MGR (TEL.)
MGR (CIVIL)	DGM (E&M)	DGM (TEL.)
DGM (CIVIL)	MGR (TRACK)	DGM (S&T)
PD (N-GN)	DGM (TRACK)	GM (S&T)

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS BY NMRC/GC	25.05.2021	
R01	GENERAL COMMENTS BY NMRC	11.09.2020	

NOIDA METRO RAIL CORPORATION LTD.

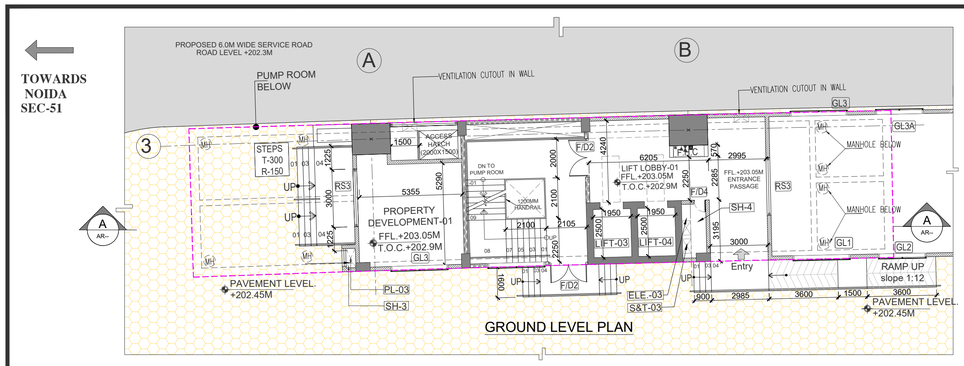
TITLE:
STREET/GROUND LEVEL PLAN
TYPICAL STATION

SCALE
1:275 @ A1

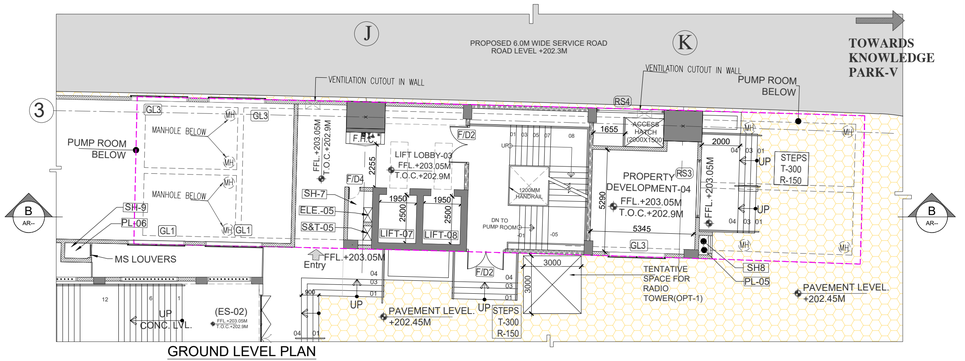
DATE
25.05.2021

REV.
R02

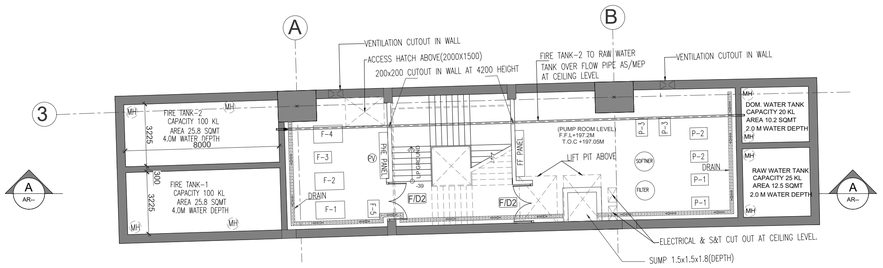
DRG. NO.:
NGNDD-01-LKT-NMRC-ST-XX-TD-GR-AR-1002



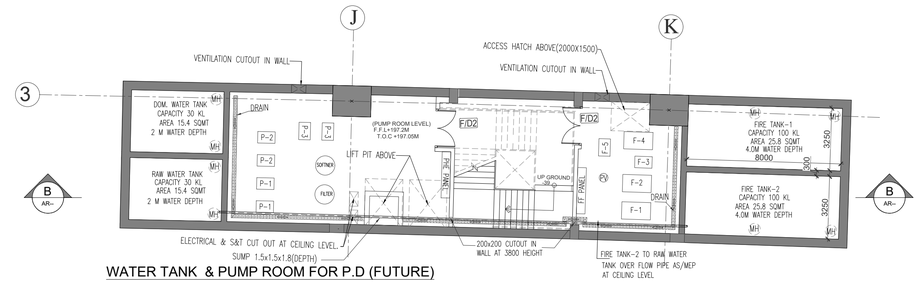
GROUND LEVEL PLAN



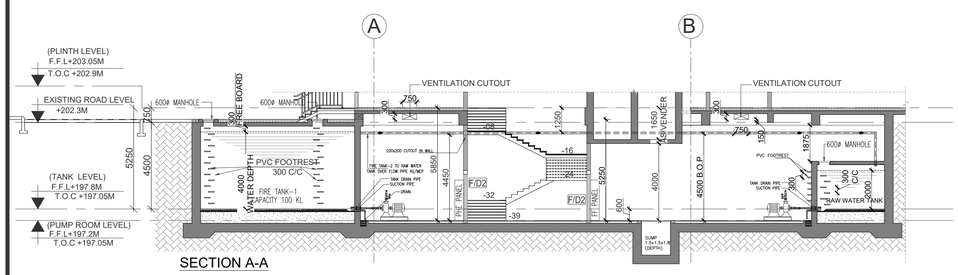
GROUND LEVEL PLAN



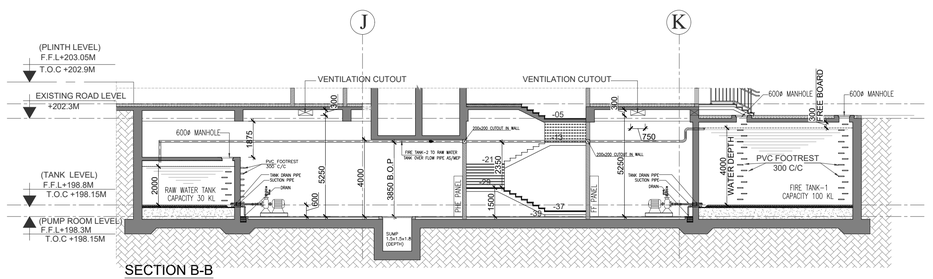
WATER TANK & PUMP ROOM FOR STATION AND P.D. (GROUND & CONCOURSE LEVEL)



WATER TANK & PUMP ROOM FOR P.D (FUTURE)

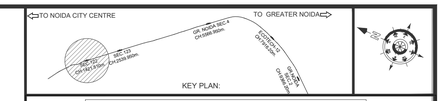


SECTION A-A



SECTION B-B

PUMP ROOM LAYOUT & SECTION



LEGEND :-

PROPOSED STATION BOX

LEGEND :-

BLOCK WORK
R.C.C. WORK
EARTH PIT
FILLED UP FLOOR
RAISED FLOOR
FLOOR FINISH
TWO HRS FIRE RATED WALL
SECELEV NAME
DRAWING NUMBER

ABBREVIATIONS

EFO	EXCESS FARE OFFICE
FFL	FINISHED FLOOR LEVEL
CONC.	CONCOURSE
TVM	TICKET VENDING MACHINE
TOC	TOP OF CONCRETE
FHC	FIRE HOSE CABINET
TOM	TICKET OPERATING MACHINE
ESC	ESCALATOR
S&T	SIGNALING AND TELECOM
EL	ELECTRICAL
PL	PLUMBING
PHE	PLUMBING SERVICES

WINDOW SCHEDULE

S.NO.	WINDOW NO.	WIDTH	HEIGHT	SILL HEIGHT	LINTEL HEIGHT	REMARKS
1	GL1	3000	11340	--	--	GROUN & CONCOURSE
2	GL2	2500	11340	--	--	GROUN & CONCOURSE
3	GL3	3000	5000	--	--	GROUN & CONCOURSE
4	GL3A	2000	5000			GROUN & CONCOURSE
5	GL4	2500	4000	--	--	CONCOURSE
6	GL5	3000	4000	--	--	CONCOURSE
7	GL6	3000	9000	--	--	PD-1&2
8	GL7	2500	9000			PD-1&2
9	GRC1	3000	4500	--	--	PLATFORM
10	GRC2	2500	4500	--	--	PLATFORM
11	V1	1000	600	2100	2700	TOILET & CLEANERS ROOM
12	V2	1000	600	2100	2700	ASS ROOM
13	V3	600	600	2100	2700	JANITOR'S ROOM

DOOR SCHEDULE

S NO.	DOOR NO.	OPENING WIDTH	OPENING HEIGHT	PANEL	FIRE RESISTANCE IN HRS.	LOCATION
1	F/D1	2400	2400	DOUBLE LEAF	TWO HOURS	ASS ROOM & CORRIDOR
2	F/D2	2000	2400	DOUBLE LEAF	TWO HOURS	FIRE EXIT DOOR
3	F/D3	1800	2400	DOUBLE LEAF	TWO HOURS	TECHNICAL ROOMS
4	F/D4	750	2000	SINGLE LEAF	TWO HOURS	FIRE SHAFT
5	FSD1	3000	4000	FOLDING DOOR	- - -	GROUND STATION ENTRY
6	FSD2	3000	4000	FOLDING DOOR	- - -	CONCOURSE STATION ENTRY
7	FGD1	3000	2400	GLAZED DOOR	TWO HOURS	PD ENTRY EXCEPT G.F.
8	D01	2000	2400	DOUBLE LEAF	- - -	TERRACE & MESS ROOM
9	D02	1500	2100	DOUBLE LEAF	- - -	STORAGE ROOM
10	D03	1200	2100	DOUBLE LEAF	- - -	TOILET
11	D04	1000	2100	SINGLE LEAF	- - -	U05,U06,U07,U09,U12,U14/16,U21
12	D05	900	2100	SINGLE LEAF	- - -	CASH SECURITY
13	D06	900	2100	SINGLE LEAF	- - -	TOILET
14	D07	750	2100	DOUBLE LEAF	- - -	TOILET
15	D08	600	2000	SINGLE LEAF	- - -	PLUMBING SHAFT
16	D09	1200	2100	SINGLE LEAF	- - -	PSB
17	RS1	4000	3500	ROLLING SHUTTER	- - -	ASS ROOM
18	RS2	4000	2700	ROLLING SHUTTER	- - -	DG ROOM
19	RS3	3000	2700	ROLLING SHUTTER	- - -	GROUND PD ENTRY
20	RS4	3000	2700	ROLLING SHUTTER	- - -	PUMP ROOM ACCESS HATCH

ROOM AREA SCHEDULE

S.NO.	NOMENCLATURE	DESCRIPTION	LENGTH (M)	WIDTH (M)	TOTAL BUILT-UP AREA PROVIDED (SQ.MT.)	FLOOR	CEILING
1.	ES-01 (ENTRY/EXIT STRUCTURE)	STAIRCASE-1/LIFT-1/ ESCALATOR-01/LIFT LOBBY & SHAFT	-	-	209.26	-	-
2.	ES-02 (ENTRY/EXIT STRUCTURE)	STAIRCASE-2/LIFT-2/ ESCALATOR-02/LIFT LOBBY & SHAFT	-	-	209.26	-	-
3.	(PROPERTY DEVELOPMENT) PD-1,2,3&PD-4	STAIRCASE-3,4 & 5/LIFT-2-3,4-5,6-7/ LIFT LOBBY & SHAFT,PD TOILET ,PD AREA	-	-	1067.9	-	-
		TOTAL BUILT-UP AREA ON GROUND FLOOR			1277.55 sq.mt.		

SHAFT SCHEDULE

S NO.	SHAFT CODE	SHAFT SIZE	CUT OUT CODE	CUT OUT SIZE	CUT OUT IN SLAB GR.	CONC.	PL.	PD-1	PD-2	TL.	SHAFT LOCATION
1	SH-1	1350x2250	ELE-01	600x650							GROUND - CONC.
			S&T-01	600x650							
2	SH-2	1920x1450	ELE-02	700x625							GROUND - CONC.
			S&T-02	700x625							
3	SH-3 DUCT	700x1400	PL-03	500x1000							GROUND - TERRACE
4	SH-4	1250x2800	ELE-03	450x750							GROUND - TERRACE
			S&T-03	450x750							
5	SH-5 DUCT	1400x700	PL-04	1000x500							GROUND - TERRACE
6	SH-6	1250x2800	ELE-04	450x750							CONC. - PLATFORM
			S&T-04	450x750							
7	SH-7	1250x2800	ELE-05	450x750							CONC. - TERRACE
			S&T-05	450x750							
8	SH-8 DUCT	700x1400	PL-05	500x1000							GROUND - TERRACE
9	SH-9 DUCT	1600x1000	PL-06	1200x800							GROUND - CONCOURSE
10	SH-10	AS/PLAN	ETH-01	850x325							GROUND - CONCOURSE
11	SH-11	1200x2515	ELE-06	450x925							CONCOURSE-PLATFORM
			S&T-06	450x925							
12	SH-12	1200x2550	ELE-07	450x925							CONCOURSE-PLATFORM
			S&T-07	450x925							

NOTE:-GR=GROUND,CONC.=CONCOURE,PL.=PLATFORM,TL=TERRACE

LIFT SCHEDULE

S NO.	LIFT CODE	CUT OUT SIZE	LOCATION
1	LIFT-01	2500x1950	GR TO CONC.
2	LIFT-02	2500x1950	GR TO CONC.
3	LIFT-03	1950x2500	GR TO TL.
4	LIFT-04	1950x2500	GR TO TL.
5	LIFT-05	1950x2500	GR TO TL.
6	LIFT-06	1950x2500	GR TO TL.
7	LIFT-07	1950x2500	GR TO TL.
8	LIFT-08	1950x2500	GR TO TL.
9	LIFT-09	2550x2150	CONC. TO PL.
10	LIFT-10	2550x2150	CONC. TO PL.

STAIR CASE SCHEDULE

STAICASE NO.	WIDTH	LOCATION
ST-01	3800	GR. TO CONC.
ST-02	3800	GR. TO CONC.
ST-03	2000	GR. TO TL.
ST-04	2000	GR. TO TL.
ST-05	2000	GR. TO TL.
ST-06	4500	CONC. TO PL.
ST-07	3600	CONC. TO PL.
ST-08	3600	CONC. TO PL.
ST-09	4500	CONC. TO PL.

SCHEDULE OF PUMPS AND EQUIPMENTS

SYMBOL	DESCRIPTION
F1	MAIN FIRE PUMP ELECTRICAL OPERATED (STAND BY)
F2	MAIN FIRE PUMP ELECTRICAL OPERATED
F3	JOCKEY PUMP FOR HYDRANT
F4	SPRINKLER PUMP ELECTRICAL OPERATED
F5	JOCKEY PUMP FOR SPRINKLER
AV	AIR VESSEL
F	FILTER
S	SOFTNER
P-1	FILTER FEED PUMP
P-2	DOMESTIC WATER TRANSFER PUMP
P-3	RAW WATER TRANSFER PUMP

GENERAL NOTES :

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METRES, UNTILL OTHERWISE MENTIONED.,
2. ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
3. DIMENSIONS OF RCC WALLS IN THE SCHEDULE ARE INDICATIVE AND MAY VARY AS PER FINAL STRUCTURAL DESIGN.
4. MINIMUM INTERNAL CLEARANCES ARE MANDATORY.
5. LOCATION AND NOS. OF MAIN COLUMNS SHALL BE AS PER STRUCTURAL DESIGN.
6. ACTUAL SIZES OF CUTOUTS AND OPENINGS IN STRUCTURAL SLABS AND WALLS SHALL BE AS PER SEM DRAWING.
7. STRUCTURAL WALL PROFILE AND TBM SHAFTS SIZE TO SUIT THE FINAL TRACK ALIGNMENT AND AS PER CONTRACTOR'S DESIGN.
8. WHEREVER INTERNAL PARTITION WALLS ARE INDICATED AS RCC WALLS, IT SHALL BE MANDATORY TO FOLLOW THE RCC WALL OF SPECIFIED THICKNESS.
9. ESCALATOR AND LIFT SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT.
10. FHC NICHE SHOULD BE MADE AS PER FIRE DRAWINGS.
11. LOCATION AND SIZE OF TEMPORARY CUTOUT FOR EQUIPMENT LOWERING SHALL BE CONFIRMED BY SYSTEMWIDE CONTRACTOR.
12. CLEAR HEIGHTS GIVEN IN SECTIONS ARE SUBJECT TO STRUCTURAL DESIGNS.
13. ESCALATOR AND LIFT SIZES ARE INDICATIVE AND FINAL SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT.
14. REFER VENDOR AND FABRICATOR DRAWING FOR ALL FINAL TERMINATION AND FIXING DETAIL.

* PROJECTIONS NEED TO BE TAKEN INTO CONSIDERATION AT TIME OF CONSTRUCTION FOR FUTURE CONSTRUCTABILITY.

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		25.05.2021
CHECKED BY	JANNU TYAGI		25.05.2021
DESIGNED BY	NAINA CHOHAN		25.05.2021
DRAWN BY	SHISHUPAL		25.05.2021

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS BY NMRC/GC	25.05.2021	
R01	GENERAL COMMENTS BY NMRC	11.09.2020	

TENDER DRAWING

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

PUMP ROOM LAYOUT
TYPICAL STATION

SCALE 1:275 @ A1

DATE 25.05.2021

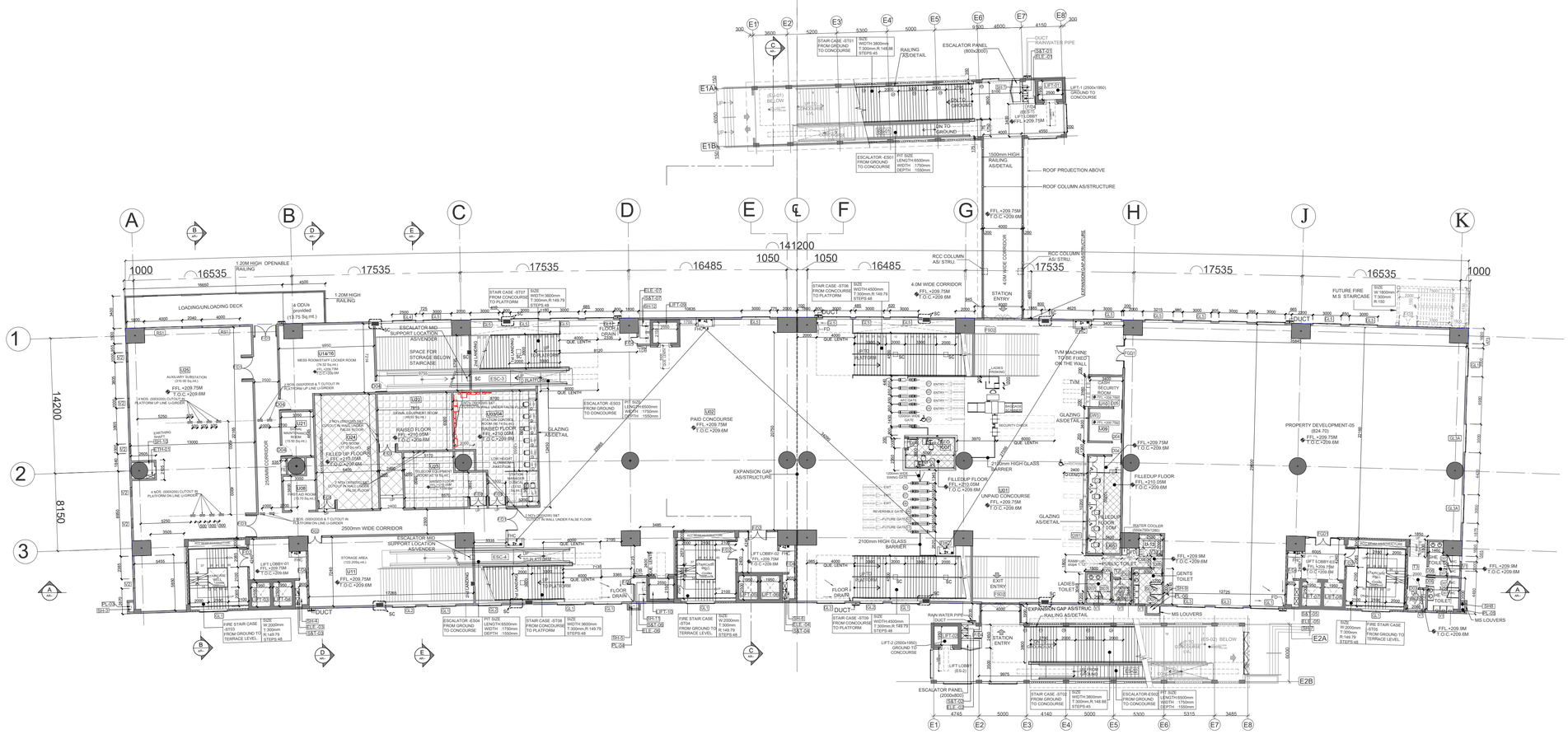
REV. R02

DRG. NO.: NGNDD-01-LKT-NMRC-ST-XX-TD-GR-AR-1002A

TOWARDS NOIDA SEC-51

TOWARDS KNOWLEDGE PARK-V

1
NOIDA SEC.122
CH:1420.00m.

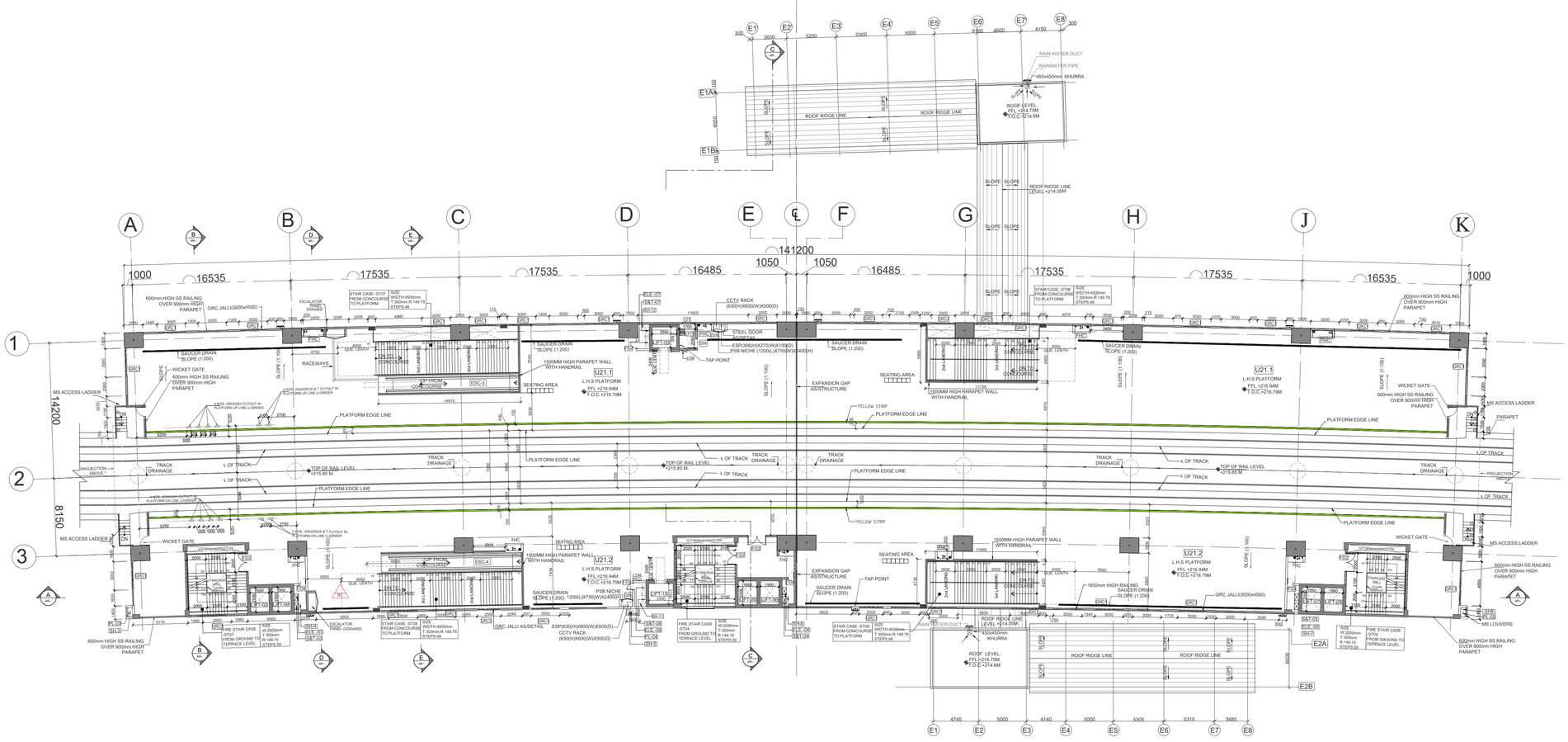

A
B
C
D
E
F
G
H
J
K
1
2
3
141200
1050
1050
16485
16485
17535
17535
17535
16535
1000
16535
1000
14200
8150
LOADING/UNLOADING DECK
1.20M HIGH OPENABLE RAILING
1.20M HIGH RAILING
4 ODUs provided (13.75 Sq.mt.)
MESS ROOM/STAFF LOCKER ROOM (74.52 Sq.mt.)
AUXILIARY SUBSTATION (310.00 Sq.mt.)
FFL+209.75M T.O.C.+209.6M
ESCALATOR MID SUPPORT LOCATION AS/VENDER
SPACE FOR STORAGE BELOW STAIRCASE
STAIR CASE -ST01 FROM CONCOURSE TO PLATFORM
SIZE WIDTH:3600mm T:300mm,R:149.79 STEPS:49
ELE-02
SHT-01
LIFT-02
ESCALATOR -ES01 FROM GROUND TO CONCOURSE
PIT SIZE LENGTH:6500mm WIDTH :1750mm DEPTH :1550mm
FLOOR DRAIN
QUE LENTH
4.0M WIDE CORRIDOR
FFL+209.75M T.O.C.+209.6M
RCC COLUMN AS/ STRU.
STATION ENTRY
EXPANSION GAP AS/STRUC
FUTURE FIRE M.S STAIRCASE
SIZE W:1800mm T:300mm R:150
PROPERTY DEVELOPMENT-05 (824.70)
FFL+209.75M T.O.C.+209.6M
TVM MACHINE TO BE FIXED ON THE WALL
SECURITY ROOM
SECURITY CHECK
GATE
GLAZING AS/DETAIL
FILLEDUP FLOOR FFL +210.05M T.O.C.+209.6M
U01
UNPAID CONCOURSE FFL+209.75M T.O.C.+209.6M
U02
PAID CONCOURSE FFL+209.75M T.O.C.+209.6M
2100mm HIGH GLASS BARRIER
1500mm HIGH RAILING AS/DETAIL
ROOF PROJECTION ABOVE
ROOF COLUMN AS/STRUCTURE
2500mm WIDE CORRIDOR
STORAGE AREA (102.20Sq.mt.)
U11
FFL+209.75M T.O.C.+209.6M
LIFT LOBBY-01 FFL +209.75M T.O.C.+209.6M
LIFT LOBBY-02 FFL +209.75M T.O.C.+209.6M
LIFT LOBBY (ES-2) FFL+209.75M
LIFT-1 (2550x1950) GROUND TO CONCOURSE
LIFT-2 (2550x1950) GROUND TO CONCOURSE
LIFT-3 (2550x1950) GROUND TO CONCOURSE
LIFT-4 (2550x1950) GROUND TO CONCOURSE
LIFT-5 (2550x1950) GROUND TO CONCOURSE
LIFT-6 (2550x1950) GROUND TO CONCOURSE
LIFT-7 (2550x1950) GROUND TO CONCOURSE
LIFT-8 (2550x1950) GROUND TO CONCOURSE
LIFT-9 (2550x2150) GROUND TO PLATFORM
LIFT-10 (2550x2150) GROUND TO PLATFORM
ESCALATOR -ES02 FROM GROUND TO CONCOURSE
ESCALATOR -ES03 FROM GROUND TO CONCOURSE
ESCALATOR -ES04 FROM GROUND TO CONCOURSE
ESCALATOR -ES05 FROM GROUND TO CONCOURSE
ESCALATOR -ES06 FROM GROUND TO CONCOURSE
ESCALATOR -ES07 FROM GROUND TO CONCOURSE
ESCALATOR -ES08 FROM GROUND TO CONCOURSE
STAIR CASE -ST02 FROM CONCOURSE TO PLATFORM
STAIR CASE -ST03 FROM CONCOURSE TO PLATFORM
STAIR CASE -ST04 FROM GROUND TO TERRACE LEVEL
STAIR CASE -ST05 FROM GROUND TO TERRACE LEVEL
STAIR CASE -ST06 FROM GROUND TO TERRACE LEVEL
STAIR CASE -ST07 FROM GROUND TO CONCOURSE
STAIR CASE -ST08 FROM GROUND TO CONCOURSE
RAIN WATER PIPE DUCT
DUCT
SHT-01
SHT-02
SHT-03
SHT-04
SHT-05
SHT-06
SHT-07
SHT-08
SHT-09
SHT-10
SHT-11
SHT-12
PL-01
PL-02
PL-03
PL-04
PL-05
PL-06
PL-07
PL-08
PL-09
PL-10
PL-11
PL-12
ESCALATOR PANEL (2000x900)
ELE-01
ELE-02
ELE-03
ELE-04
ELE-05
ELE-06
ELE-07
ELE-08
ELE-09
ELE-10
ELE-11
ELE-12
LIFT LOBBY (ES-2)
FFL+209.75M
LIFT LOBBY-03 FFL +209.75M T.O.C.+209.6M
LIFT LOBBY-04 FFL +209.75M T.O.C.+209.6M
LIFT LOBBY-05 FFL +209.75M T.O.C.+209.6M
LIFT LOBBY-06 FFL +209.75M T.O.C.+209.6M
LIFT LOBBY-07 FFL +209.75M T.O.C.+209.6M
LIFT LOBBY-08 FFL +209.75M T.O.C.+209.6M
LIFT LOBBY-09 FFL +209.75M T.O.C.+209.6M
LIFT LOBBY-10 FFL +209.75M T.O.C.+209.6M
LIFT

TOWARDS NOIDA SEC-51

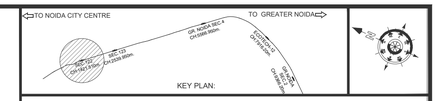
TOWARDS KNOWLEDGE PARK-V

1

NOIDA SEC.122
CH:1420.00m.



PLATFORM LEVEL PLAN



LEGEND :-

- BLOCK WORK
- R.C.C. WORK
- EARTH PIT
- RAISED FLOOR
- SEC/ELEV NAME
- DRAWING NUMBER

ABBREVIATIONS

EFO	EXCESS FARE OFFICE
FFL	FINISHED FLOOR LEVEL
CONC.	CONCOURSE
TVM	TICKET VENDING MACHINE
TOC	TOP OF CONCRETE
FHC	FIRE HOSE CABINET
TOM	TICKET OPERATING MACHINE
ESC	ESCALATOR
S&T	SIGNALING AND TELECOM
EL.	ELECTRICAL
PL	PLUMBING
PHE	PLUMBING SERVICES

WINDOW SCHEDULE

S NO.	WINDOW NO.	WIDTH	HEIGHT	SILL HEIGHT	LINTEL HEIGHT	REMARKS
1	GL1	3000	11340	--	--	GROUN & CONCOURSE
2	GL2	2500	11340	--	--	GROUN & CONCOURSE
3	GL3	3000	5000	--	--	GROUN & CONCOURSE
4	GL3A	2000	5000			GROUN & CONCOURSE
5	GL4	2500	4000	--	--	CONCOURSE
6	GL5	3000	4000	--	--	CONCOURSE
7	GL6	3000	9000	--	--	PD-1&2
8	GL7	2500	9000			PD-1&2
9	GRC1	3000	4500	--	--	PLATFORM
10	GRC2	2500	4500	--	--	PLATFORM
11	V1	1000	600	2100	2700	TOILET & CLEANERS ROOM
12	V2	1000	600	2100	2700	ASS ROOM
13	V3	600	600	2100	2700	JANITOR'S ROOM

DOOR SCHEDULE

S NO.	DOOR NO.	OPENING WIDTH	OPENING HEIGHT	PANEL	FIRE RESISTANCE IN HRS.	LOCATION
1	F/D1	2400	2400	DOUBLE LEAF	TWO HOURS	ASS ROOM & CORRIDOR
2	F/D2	2000	2400	DOUBLE LEAF	TWO HOURS	FIRE EXIT DOOR
3	F/D3	1800	2400	DOUBLE LEAF	TWO HOURS	TECHNICAL ROOMS
4	F/D4	750	2000	SINGLE LEAF	TWO HOURS	FIRE SHAFT
5	FSD1	3000	4000	FOLDING DOOR	- - -	GROUND STATION ENTRY
6	FSD2	3000	4000	FOLDING DOOR	- - -	CONCOURSE STATION ENTRY
7	FGD1	3000	2400	GLAZED DOOR	TWO HOURS	PD ENTRY EXCEPT G.F.
8	D01	2000	2400	DOUBLE LEAF	- - -	TERRACE & MESS ROOM
9	D02	1500	2100	DOUBLE LEAF	- - -	STORAGE ROOM
10	D03	1200	2100	DOUBLE LEAF	- - -	TOILET
11	D04	1000	2100	SINGLE LEAF	- - -	U05,U06,U07,U09,U12,U14/16,U21
12	D05	900	2100	SINGLE LEAF	- - -	CASH SECURITY
13	D06	900	2100	SINGLE LEAF	- - -	TOILET
14	D07	750	2100	DOUBLE LEAF	- - -	TOILET
15	D08	600	2000	SINGLE LEAF	- - -	PLUMBING SHAFT
16	D09	1200	2100	SINGLE LEAF	- - -	PSB
17	RS1	4000	3500	ROLLING SHUTTER	- - -	ASS ROOM
18	RS2	4000	2700	ROLLING SHUTTER	- - -	DG ROOM
19	RS3	3000	2700	ROLLING SHUTTER	- - -	GROUND PD ENTRY
20	RS4	3500	2700	ROLLING SHUTTER	- - -	PUMP ROOM ACCESS HATCH

AREA SCHEDULE

S.NO.	NOMENCLATURE	DESCRIPTION	LENGTH (M)	WIDTH (M)	TOTAL BUILT-UP AREA PROVIDED (SQ.MT.)	FLOOR	CEILING
1.	21.1	LEFT HAND SIDE PLATFORM	-	-	1345		
2.	21.2	RIGHT HAND SIDE PLATFORM	-	-	1175		

SHAFT SCHEDULE

S NO.	SHAFT CODE	SHAFT SIZE	CUT OUT CODE	CUT OUT SIZE	CUT OUT IN SLAB GR.	CONC.	PL.	PD-	PD-2	TL.	SHAFT LOCATION
1	SH-1	1350x2250	ELE-01	600x650							GROUND - CONC.
			S&T-01	600x650							
2	SH-2	1920x1450	ELE-02	700x625							GROUND - CONC.
			S&T-02	700x625							
3	SH-3 DUCT	700x1400	PL-03	500x1000							GROUND - TERRACE
4	SH-4	1250x2800	ELE-03	450x750							GROUND - TERRACE
			S&T-03	450x750							
5	SH-5 DUCT	1400x700	PL-04	1000x500							GROUND - TERRACE
6	SH-6	1250x2800	ELE-04	450x750							CONC. - PLATFORM
			S&T-04	450x750							
7	SH-7	1250x2800	ELE-05	450x750							CONC. - TERRACE
			S&T-05	450x750							
8	SH-8 DUCT	700x1400	PL-05	500x1000							GROUND - TERRACE
9	SH-9 DUCT	1600x1000	PL-06	1200x800							GROUND - CONCOURSE
10	SH-10	AS/PLAN	ETH-01	850x325							GROUND - CONCOURSE
11	SH-11	1200x2515	ELE-06	450x925							CONCOURSE-PLATFORM
			S&T-06	450x925							
12	SH-12	1200x2550	ELE-07	450x925							CONCOURSE-PLATFORM
			S&T-07	450x925							

NOTE:-GR=GROUND,CONC.=CONCOURE,PL.=PLATFORM,TL=TERRACE

LIFT SCHEDULE

S NO.	LIFT CODE	CUT OUT SIZE	LOCATION
1	LIFT-01	2500x1950	GR TO CONC.
2	LIFT-02	2500x1950	GR TO CONC.
3	LIFT-03	1950x2500	GR TO TL.
4	LIFT-04	1950x2500	GR TO TL.
5	LIFT-05	1950x2500	GR TO TL.
6	LIFT-06	1950x2500	GR TO TL.
7	LIFT-07	1950x2500	GR TO TL.
8	LIFT-08	1950x2500	GR TO TL.
9	LIFT-09	2550x2150	CONC. TO PL.
10	LIFT-10	2550x2150	CONC. TO PL.

STAIR CASE SCHEDULE

STAICASE NO.	WIDTH	LOCATION
ST-01	3800	GR. TO CONC.
ST-02	3800	GR. TO CONC.
ST-03	2000	GR. TO TL.
ST-04	2000	GR. TO TL.
ST-05	2000	GR. TO TL.
ST-06	4500	CONC. TO PL.
ST-07	3600	CONC. TO PL.
ST-08	3600	CONC. TO PL.
ST-09	4500	CONC. TO PL.

ROOM AREA SCHEDULE

S.NO.	NOMENCLATURE	DESCRIPTION	LENGTH (M)	WIDTH (M)	TOTAL BUILT-UP AREA PROVIDED (SQ.MT.)	FLOOR	CEILING
11.	U13	CLEANER'S ROOM	1.70	2.54	4.31	-	-

GENERAL NOTES :

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METRES, UNTILL OTHERWISE MENTIONED.,
2. ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
3. DIMENSIONS OF RCC WALLS IN THE SCHEDULE ARE INDICATIVE AND MAY VARY AS PER FINAL STRUCTURAL DESIGN.
4. MINIMUM INTERNAL CLEARANCES ARE MANDATORY.
5. LOCATION AND NOS. OF MAIN COLUMNS SHALL BE AS PER STRUCTURAL DESIGN.
6. ACTUAL SIZES OF CUTOUTS AND OPENINGS IN STRUCTURAL SLABS AND WALLS SHALL BE AS PER SEM DRAWING.
7. STRUCTURAL WALL PROFILE AND TBM SHAFTS SIZE TO SUIT THE FINAL TRACK ALIGNMENT AND AS PER CONTRACTOR'S DESIGN.
8. WHEREVER INTERNAL PARTITION WALLS ARE INDICATED AS RCC WALLS, IT SHALL BE MANDATORY TO FOLLOW THE RCC WALL OF SPECIFIED THICKNESS.
9. ESCALATOR AND LIFT SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT.
10. FHC NICHE SHOULD BE MADE AS PER FIRE DRAWINGS.
11. LOCATION AND SIZE OF TEMPORARY CUTOUT FOR EQUIPMENT LOWERING SHALL BE CONFIRMED BY SYSTEMWIDE CONTRACTOR.
12. CLEAR HEIGHTS GIVEN IN SECTIONS ARE SUBJECT TO STRUCTURAL DESIGNS.
13. ESCALATOR AND LIFT SIZES ARE INDICATIVE AND FINAL SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT.
14. REFER VENDOR AND FABRICATOR DRAWING FOR ALL FINAL TERMINATION AND FIXING DETAIL.

* PROJECTIONS NEED TO BE TAKEN INTO CONSIDERATION AT TIME OF CONSTRUCTION FOR FUTURE CONSTRUCTABILITY.

TENDER DRAWING

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		25.05.2021
CHECKED BY	JANNU TYAGI		25.05.2021
DESIGNED BY	NAINA CHOHAN		25.05.2021
DRAWN BY	SHISHUPAL		25.05.2021

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS BY NMRC/GC	25.05.2021	
R01	GENERAL COMMENTS BY NMRC	11.09.2020	

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

PLATFORM LEVEL PLAN
TYPICAL STATION

SCALE 1:250

DATE 25.05.2021

REV. R02

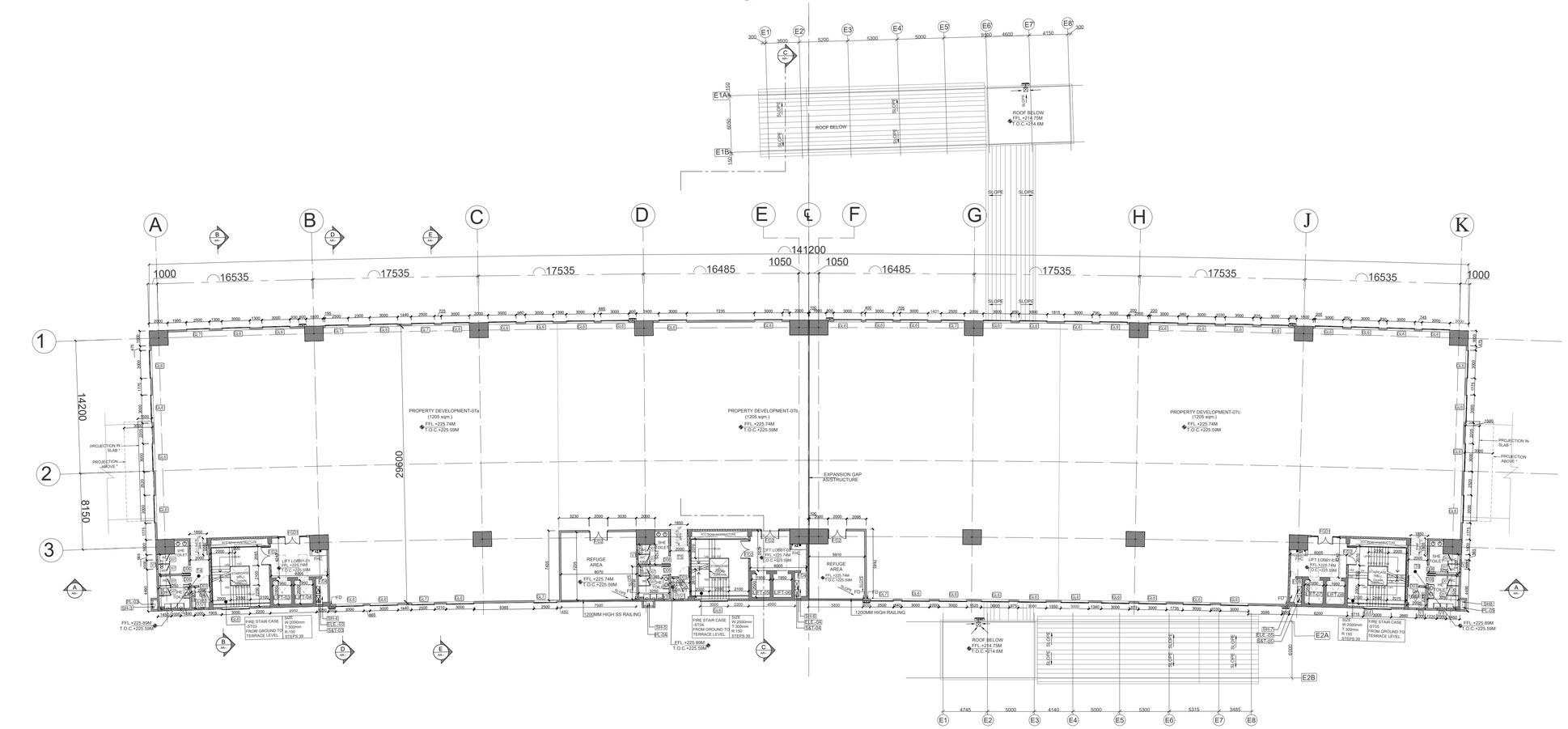
DRG. NO.: NGNDD-01-LKT-NMRC-ST-XX-TD-PL-AR-1004

TOWARDS NOIDA SEC-51

TOWARDS KNOWLEDGE PARK-V

1

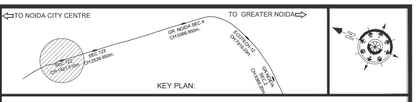
NOIDA SEC.122 CH:1420.00m.



PD-1 LEVEL PLAN

TOWARDS NOIDA CITY CENTRE

TO GREATER NOIDA



KEY PLAN:

LEGEND :

- BLOCK WORK
- R.C.C. WORK
- EARTH PIT
- RAISED FLOOR
- FLOOR FINISH
- SEC/ELEV NAME
- DRAWING NUMBER

ABBREVIATIONS

EFO	EXCESS FARE OFFICE
FFL	FINISHED FLOOR LEVEL
CONC	CONCOURSE
TVM	TICKET VENDING MACHINE
TOC	TOP OF CONCRETE
FHC	FIRE HOSE CABINET
TOM	TICKET OPERATING MACHINE
ESC	ESCALATOR
S&T	SIGNALING AND TELECOM
EL	ELECTRICAL
PL	PLUMBING
PHE	PLUMBING SERVICES

WINDOW SCHEDULE

S NO.	WINDOW NO.	WIDTH	HEIGHT	SILL HEIGHT	LINTEL HEIGHT	REMARKS
1	GL1	3000	11340	--	--	GROUN & CONCOURSE
2	GL2	2500	11340	--	--	GROUN & CONCOURSE
3	GL3	3000	5000	--	--	GROUN & CONCOURSE
4	GL3A	2000	5000			GROUN & CONCOURSE
5	GL4	2500	4000	--	--	CONCOURSE
6	GL5	3000	4000	--	--	CONCOURSE
7	GL6	3000	9000	--	--	PD-1&2
8	GL7	2500	9000			PD-1&2
9	GRC1	3000	4500	--	--	PLATFORM
10	GRC2	2500	4500	--	--	PLATFORM
11	V1	1000	600	2100	2700	TOILET & CLEANERS ROOM
12	V2	1000	600	2100	2700	ASS ROOM
13	V3	600	600	2100	2700	JANITOR'S ROOM

DOOR SCHEDULE

S NO.	DOOR NO.	OPENING WIDTH	OPENING HEIGHT	PANEL	FIRE RESISTANCE IN HRS.	LOCATION
1	F/D1	2400	2400	DOUBLE LEAF	TWO HOURS	ASS ROOM & CORRIDOR
2	F/D2	2000	2400	DOUBLE LEAF	TWO HOURS	FIRE EXIT DOOR
3	F/D3	1800	2400	DOUBLE LEAF	TWO HOURS	TECHNICAL ROOMS
4	F/D4	750	2000	SINGLE LEAF	TWO HOURS	FIRE SHAFT
5	FSD1	3000	4000	FOLDING DOOR	---	GROUND STATION ENTRY
6	FSD2	3000	4000	FOLDING DOOR	---	CONCOURSE STATION ENTRY
7	FGD1	3000	2400	GLAZED DOOR	TWO HOURS	PD ENTRY EXCEPT G.F.
8	D01	2000	2400	DOUBLE LEAF	---	TERRACE & MESS ROOM
9	D02	1500	2100	DOUBLE LEAF	---	STORAGE ROOM
10	D03	1200	2100	DOUBLE LEAF	---	TOILET
11	D04	1000	2100	SINGLE LEAF	---	U05,U06,U07,U09,U12,U14/16,U21
12	D05	900	2100	SINGLE LEAF	---	CASH SECURITY
13	D06	900	2100	SINGLE LEAF	---	TOILET
14	D07	750	2100	DOUBLE LEAF	---	TOILET
15	D08	600	2000	SINGLE LEAF	---	PLUMBING SHAFT
16	D09	1200	2100	SINGLE LEAF	---	PSB
17	RS1	4000	3500	ROLLING SHUTTER	---	ASS ROOM
18	RS2	4000	2700	ROLLING SHUTTER	---	DG ROOM
19	RS3	3000	2700	ROLLING SHUTTER	---	GROUND PD ENTRY
20	RS4	3500	2700	ROLLING SHUTTER	---	PUMP ROOM ACCESS HATCH

ROOM AREA SCHEDULE

S.NO.	NOMENCLATURE	DESCRIPTION	LENGTH (M)	WIDTH (M)	TOTAL BUILT-UP AREA PROVIDED (SQ.MT.)	FLOOR	CEILING
1.	PD -02	PROPERTY DEVELOPMENT	-	-	3639.87		
2.	REFUGE AREA	REFUGE AREA	-	-	121		
3.	T-4	TOILET-4	-	-	37.33		
4.	T-5	TOILET-5	-	-	36.97		
5.	T-6	TOILET-6	-	-	35.88		
		TOTAL AREA ON PD FLOOR			4236		

SHAFT SCHEDULE

S NO.	SHAFT CODE	SHAFT SIZE	CUT OUT CODE	CUT OUT SIZE	CUT OUT IN SLAB GR	CONC.	PL.	PD-1	PD-2	TL	SHAFT LOCATION
1	SH-1	1350x2250	ELE-01	600x650	X						GROUND - CONC.
			S&T-01	600x650	X						
2	SH-2	1920x1450	ELE-02	700x625	X						GROUND - CONC.
			S&T-02	700x625	X						
3	SH-3 DUCT	700x1400	PL-03	500x1000	X	X	X	X	X	X	GROUND - TERRACE
4	SH-4	1250x2800	ELE-03	450x750	X	X	X	X	X	X	GROUND - TERRACE
			S&T-03	450x750	X	X	X	X	X	X	
5	SH-5 DUCT	1400x700	PL-04	1000x500	X	X	X	X	X	X	GROUND - TERRACE
6	SH-6	1250x2800	ELE-04	450x750		X					CONC. - PLATFORM
7	SH-7	1250x2800	ELE-05	450x750	X	X	X	X	X	X	CONC. - TERRACE
			S&T-05	450x750	X	X	X	X	X	X	
8	SH-8 DUCT	700x1400	PL-05	500x1000	X	X	X	X	X	X	GROUND - TERRACE
9	SH-9 DUCT	1600x1000	PL-06	1200x800	X						GROUND - CONCOURSE
10	SH-10	AS/PLAN	ETH-01	850x325	X						GROUND - CONCOURSE
11	SH-11	1200x2515	ELE-06	450x925			X				CONCOURSE-PLATFORM
			S&T-06	450x925			X				
12	SH-12	1200x2550	ELE-07	450x925			X				CONCOURSE-PLATFORM
			S&T-07	450x925			X				

NOTE:-GR=GROUND,CONC.=CONCOURE,PL.=PLATFORM,TL=TERRACE

LIFT SCHEDULE

S NO.	LIFT CODE	CUT OUT SIZE	LOCATION
1	LIFT-01	2500x1950	GR TO CONC.
2	LIFT-02	2500x1950	GR TO CONC.
3	LIFT-03	1950x2500	GR TO TL.
4	LIFT-04	1950x2500	GR TO TL.
5	LIFT-05	1950x2500	GR TO TL.
6	LIFT-06	1950x2500	GR TO TL.
7	LIFT-07	1950x2500	GR TO TL.
8	LIFT-08	1950x2500	GR TO TL.
9	LIFT-09	2550x2150	CONC. TO PL.
10	LIFT-10	2550x2150	CONC. TO PL.

STAIR CASE SCHEDULE

STAICASE NO.	WIDTH	LOCATION
ST-01	3800	GR. TO CONC.
ST-02	3800	GR. TO CONC.
ST-03	2000	GR. TO TL.
ST-04	2000	GR. TO TL.
ST-05	2000	GR. TO TL.
ST-06	4500	CONC. TO PL.
ST-07	3600	CONC. TO PL.
ST-08	3600	CONC. TO PL.
ST-09	4500	CONC. TO PL.

GENERAL NOTES :

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METRES, UNTILL OTHERWISE MENTIONED.,
2. ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
3. DIMENSIONS OF RCC WALLS IN THE SCHEDULE ARE INDICATIVE AND MAY VARY AS PER FINAL STRUCTURAL DESIGN.
4. MINIMUM INTERNAL CLEARANCES ARE MANDATORY.
5. LOCATION AND NOS. OF MAIN COLUMNS SHALL BE AS PER STRUCTURAL DESIGN.
6. ACTUAL SIZES OF CUTOUTS AND OPENINGS IN STRUCTURAL SLABS AND WALLS SHALL BE AS PER SEM DRAWING.
7. STRUCTURAL WALL PROFILE AND TBM SHAFTS SIZE TO SUIT THE FINAL TRACK ALIGNMENT AND AS PER CONTRACTOR'S DESIGN.
8. WHEREVER INTERNAL PARTITION WALLS ARE INDICATED AS RCC WALLS, IT SHALL BE MANDATORY TO FOLLOW THE RCC WALL OF SPECIFIED THICKNESS.
9. ESCALATOR AND LIFT SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT.
10. FHC NICHE SHOULD BE MADE AS PER FIRE DRAWINGS.
11. LOCATION AND SIZE OF TEMPORARY CUTOUT FOR EQUIPMENT LOWERING SHALL BE CONFIRMED BY SYSTEMWIDE CONTRACTOR.
12. CLEAR HEIGHTS GIVEN IN SECTIONS ARE SUBJECT TO STRUCTURAL DESIGNS.
13. ESCALATOR AND LIFT SIZES ARE INDICATIVE AND FINAL SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT.
14. REFER VENDOR AND FABRICATOR DRAWING FOR ALL FINAL TERMINATION AND FIXING DETAIL.

* PROJECTIONS NEED TO BE TAKEN INTO CONSIDERATION AT TIME OF CONSTRUCTION FOR FUTURE CONSTRUCTABILITY.

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		25.05.2021
CHECKED BY	JANNU TYAGI		25.05.2021
DESIGNED BY	NAINA CHOHAN		25.05.2021
DRAWN BY	SHISHUPAL		25.05.2021

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS BY NMRC/GC	25.05.2021	
R01	GENERAL COMMENTS BY NMRC	11.09.2020	

TENDER DRAWING

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

PD-1 LEVEL PLAN
TYPICAL STATION

SCALE 1:250

DATE 25.05.2021

REV. R02

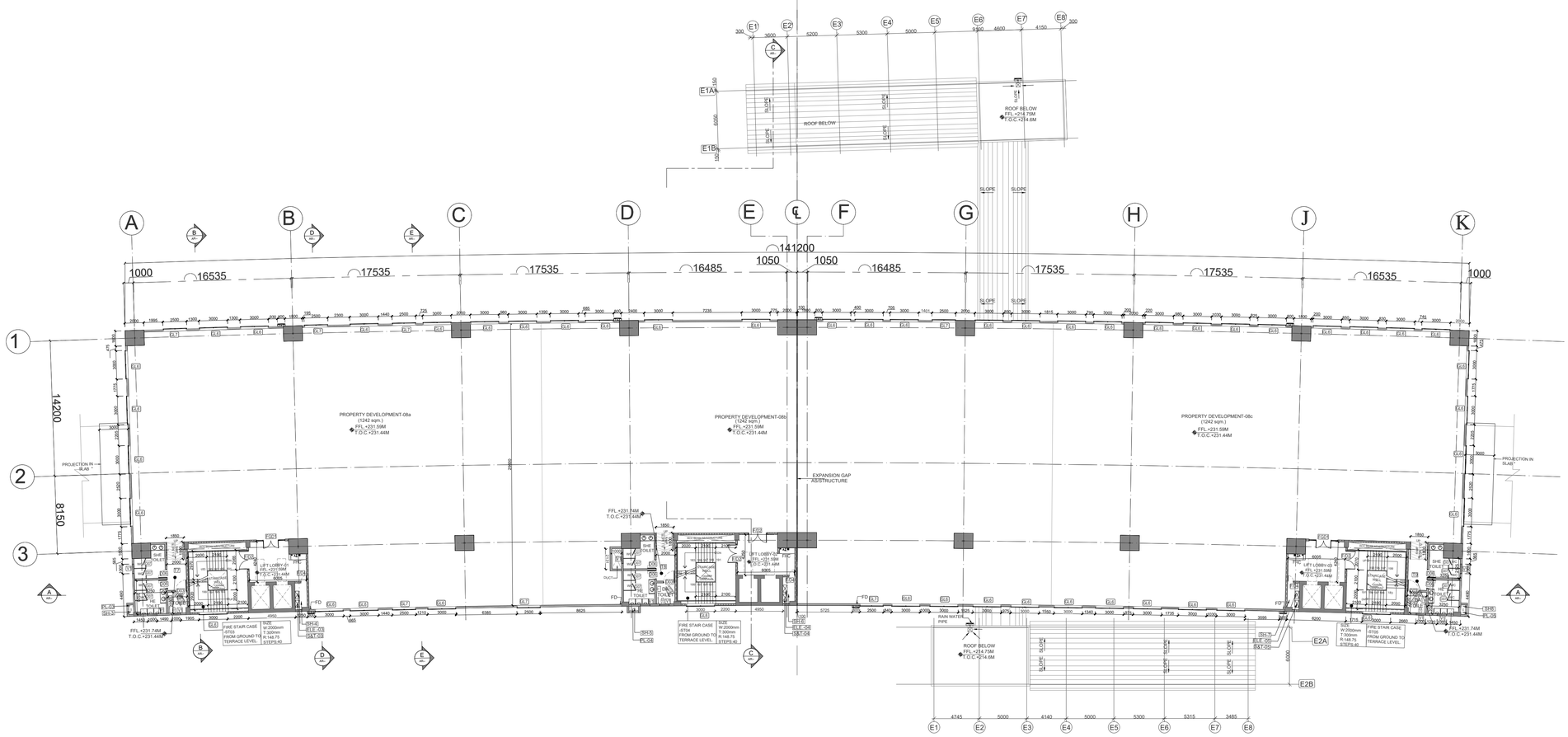
DRG. NO.: NGNDD-01-LKT-NMRC-ST-XX-TD-PD-AR-1005

TOWARDS NOIDA SEC-51

TOWARDS KNOWLEDGE PARK-V

1

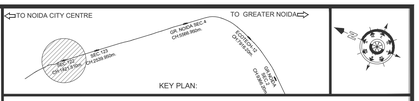
NOIDA SEC.122
CH:1420.00m.



PD-2 LEVEL PLAN

TO NOIDA CITY CENTRE

TO GREATER NOIDA



LEGEND :

- BLOCK WORK
- R.C.C. WORK
- EARTH PIT
- RAISED FLOOR
- FLOOR FINISH
- SEC/ELEV. NAME
- DRAWING NUMBER

ABBREVIATIONS

EFO	EXCESS FARE OFFICE
FFL	FINISHED FLOOR LEVEL
CONC	CONCOURSE
TVM	TICKET VENDING MACHINE
TOC	TOP OF CONCRETE
FHC	FIRE HOSE CABINET
TOM	TICKET OPERATING MACHINE
ESC	ESCALATOR
S&T	SIGNALING AND TELECOM
EL.	ELECTRICAL
PL.	PLUMBING
PHE	PLUMBING SERVICES

WINDOW SCHEDULE

S NO.	WINDOW NO.	WIDTH	HEIGHT	SILL HEIGHT	LINTEL HEIGHT	REMARKS
1	GL1	3000	11340	--	--	GROUN & CONCOURSE
2	GL2	2500	11340	--	--	GROUN & CONCOURSE
3	GL3	3000	5000	--	--	GROUN & CONCOURSE
4	GL3A	2000	5000			GROUN & CONCOURSE
5	GL4	2500	4000	--	--	CONCOURSE
6	GL5	3000	4000	--	--	CONCOURSE
7	GL6	3000	9000	--	--	PD-1&2
8	GL7	2500	9000			PD-1&2
9	GRC1	3000	4500	--	--	PLATFORM
10	GRC2	2500	4500	--	--	PLATFORM
11	V1	1000	600	2100	2700	TOILET & CLEANERS ROOM
12	V2	1000	600	2100	2700	ASS ROOM
13	V3	600	600	2100	2700	JANITOR'S ROOM

DOOR SCHEDULE

S NO.	DOOR NO.	OPENING WIDTH	OPENING HEIGHT	PANEL	FIRE RESISTANCE IN HRS.	LOCATION
1	F/D1	2400	2400	DOUBLE LEAF	TWO HOURS	ASS ROOM & CORRIDOR
2	F/D2	2000	2400	DOUBLE LEAF	TWO HOURS	FIRE EXIT DOOR
3	F/D3	1800	2400	DOUBLE LEAF	TWO HOURS	TECHNICAL ROOMS
4	FD/4	750	2000	SINGLE LEAF	TWO HOURS	FIRE SHAFT
5	FSD1	3000	4000	FOLDING DOOR	- - -	GROUND STATION ENTRY
6	FSD2	3000	4000	FOLDING DOOR	- - -	CONCOURSE STATION ENTRY
7	FGD1	3000	2400	GLAZED DOOR	TWO HOURS	PD ENTRY EXCEPT G.F.
8	D01	2000	2400	DOUBLE LEAF	- - -	TERRACE & MESS ROOM
9	D02	1500	2100	DOUBLE LEAF	- - -	STORAGE ROOM
10	D03	1200	2100	DOUBLE LEAF	- - -	TOILET
11	D04	1000	2100	SINGLE LEAF	- - -	U05,U06,U07,U09,U12,U14/16,U21
12	D05	900	2100	SINGLE LEAF	- - -	CASH SECURITY
13	D06	900	2100	SINGLE LEAF	- - -	TOILET
14	D07	750	2100	DOUBLE LEAF	- - -	TOILET
15	D08	600	2000	SINGLE LEAF	- - -	PLUMBING SHAFT
16	D09	1200	2100	SINGLE LEAF	- - -	PSB
17	RS1	4000	3500	ROLLING SHUTTER	- - -	ASS ROOM
18	RS2	4000	2700	ROLLING SHUTTER	- - -	DG ROOM
19	RS3	3000	2700	ROLLING SHUTTER	- - -	GROUND PD ENTRY
20	RS4	3500	2700	ROLLING SHUTTER	- - -	PUMP ROOM ACCESS HATCH

ROOM AREA SCHEDULE

S.NO.	NOMENCLATURE	DESCRIPTION	LENGTH (M)	WIDTH (M)	TOTAL BUILT-UP AREA PROVIDED (SQ.MT.)	FLOOR	CEILING
1.	PD -03	PROPERTY DEVELOPMENT	-	-	3762.00		
2.	T-4	TOILET-7	-	-	37.33		
3.	T-5	TOILET-8	-	-	36.97		
4.	T-6	TOILET-9	-	-	35.88		
5.							
	TOTAL AREA ON PD FLOOR				4236		

SHAFT SCHEDULE

S NO.	SHAFT CODE	SHAFT SIZE	CUT OUT CODE	CUT OUT SIZE	CUT OUT IN SLAB GR	CONC	PL	PD-1	PD-2	TL	SHAFT LOCATION
1	SH-1	1350x2250	ELE-01	600x650							GROUND - CONC.
			S&T-01	600x650							
2	SH-2	1920x1450	ELE-02	700x625							GROUND - CONC.
			S&T-02	700x625							
3	SH-3 DUCT	700x1400	PL-03	500x1000							GROUND - TERRACE
4	SH-4	1250x2800	ELE-03	450x750							GROUND - TERRACE
			S&T-03	450x750							
5	SH-5 DUCT	1400x700	PL-04	1000x500							GROUND - TERRACE
6	SH-6	1250x2800	ELE-04	450x750							CONC - PLATFORM
			S&T-04	450x750							
7	SH-7	1250x2800	ELE-05	450x750							CONC - TERRACE
			S&T-05	450x750							
8	SH-8 DUCT	700x1400	PL-05	500x1000							GROUND - TERRACE
9	SH-9 DUCT	1600x1000	PL-06	1200x800							GROUND - CONCOURSE
10	SH-10	AS/PLAN	ETH-01	850x325							GROUND - CONCOURSE
11	SH-11	1200x2515	ELE-06	450x925							CONCOURSE-PLATFORM
			S&T-06	450x925							
12	SH-12	1200x2550	ELE-07	450x925							CONCOURSE-PLATFORM
			S&T-07	450x925							

NOTE:-GR=GROUND,CONC.=CONCOURE,PL.=PLATFORM,TL=TERRACE

LIFT SCHEDULE

S NO.	LIFT CODE	CUT OUT SIZE	LOCATION
1	LIFT-01	2500x1950	GR TO CONC.
2	LIFT-02	2500x1950	GR TO CONC.
3	LIFT-03	1950x2500	GR TO TL.
4	LIFT-04	1950x2500	GR TO TL.
5	LIFT-05	1950x2500	GR TO TL.
6	LIFT-06	1950x2500	GR TO TL.
7	LIFT-07	1950x2500	GR TO TL.
8	LIFT-08	1950x2500	GR TO TL.
9	LIFT-09	2550x2150	CONC. TO PL.
10	LIFT-10	2550x2150	CONC. TO PL.

STAIR CASE SCHEDULE

STAICASE NO.	WIDTH	LOCATION
ST-01	3800	GR. TO CONC.
ST-02	3800	GR. TO CONC.
ST-03	2000	GR. TO TL.
ST-04	2000	GR. TO TL.
ST-05	2000	GR. TO TL.
ST-06	4500	CONC. TO PL.
ST-07	3600	CONC. TO PL.
ST-08	3600	CONC. TO PL.
ST-09	4500	CONC. TO PL.

GENERAL NOTES :

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METRES, UNTILL OTHERWISE MENTIONED.,
2. ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
3. DIMENSIONS OF RCC WALLS IN THE SCHEDULE ARE INDICATIVE AND MAY VARY AS PER FINAL STRUCTURAL DESIGN.
4. MINIMUM INTERNAL CLEARANCES ARE MANDATORY.
5. LOCATION AND NOS. OF MAIN COLUMNS SHALL BE AS PER STRUCTURAL DESIGN.
6. ACTUAL SIZES OF CUTOUTS AND OPENINGS IN STRUCTURAL SLABS AND WALLS SHALL BE AS PER SEM DRAWING.
7. STRUCTURAL WALL PROFILE AND TBM SHAFTS SIZE TO SUIT THE FINAL TRACK ALIGNMENT AND AS PER CONTRACTOR'S DESIGN.
8. WHEREVER INTERNAL PARTITION WALLS ARE INDICATED AS RCC WALLS, IT SHALL BE MANDATORY TO FOLLOW THE RCC WALL OF SPECIFIED THICKNESS.
9. ESCALATOR AND LIFT SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT.
10. FHC NICHE SHOULD BE MADE AS PER FIRE DRAWINGS.
11. LOCATION AND SIZE OF TEMPORARY CUTOUT FOR EQUIPMENT LOWERING SHALL BE CONFIRMED BY SYSTEMWIDE CONTRACTOR.
12. CLEAR HEIGHTS GIVEN IN SECTIONS ARE SUBJECT TO STRUCTURAL DESIGNS.
13. ESCALATOR AND LIFT SIZES ARE INDICATIVE AND FINAL SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT.
14. REFER VENDOR AND FABRICATOR DRAWING FOR ALL FINAL TERMINATION AND FIXING DETAIL.

* PROJECTIONS NEED TO BE TAKEN INTO CONSIDERATION AT TIME OF CONSTRUCTION FOR FUTURE CONSTRUCTABILITY.

TENDER DRAWING

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		25.05.2021
CHECKED BY	JANNU TYAGI		25.05.2021
DESIGNED BY	NAINA CHOHAN		25.05.2021
DRAWN BY	SHISHUPAL		25.05.2021

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS BY NMRC/GC	25.05.2021	
R01	GENERAL COMMENTS BY NMRC	11.09.2020	

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

PD-2 LEVEL PLAN
TYPICAL STATION

SCALE 1:250

DATE 25.05.2021

REV. R02

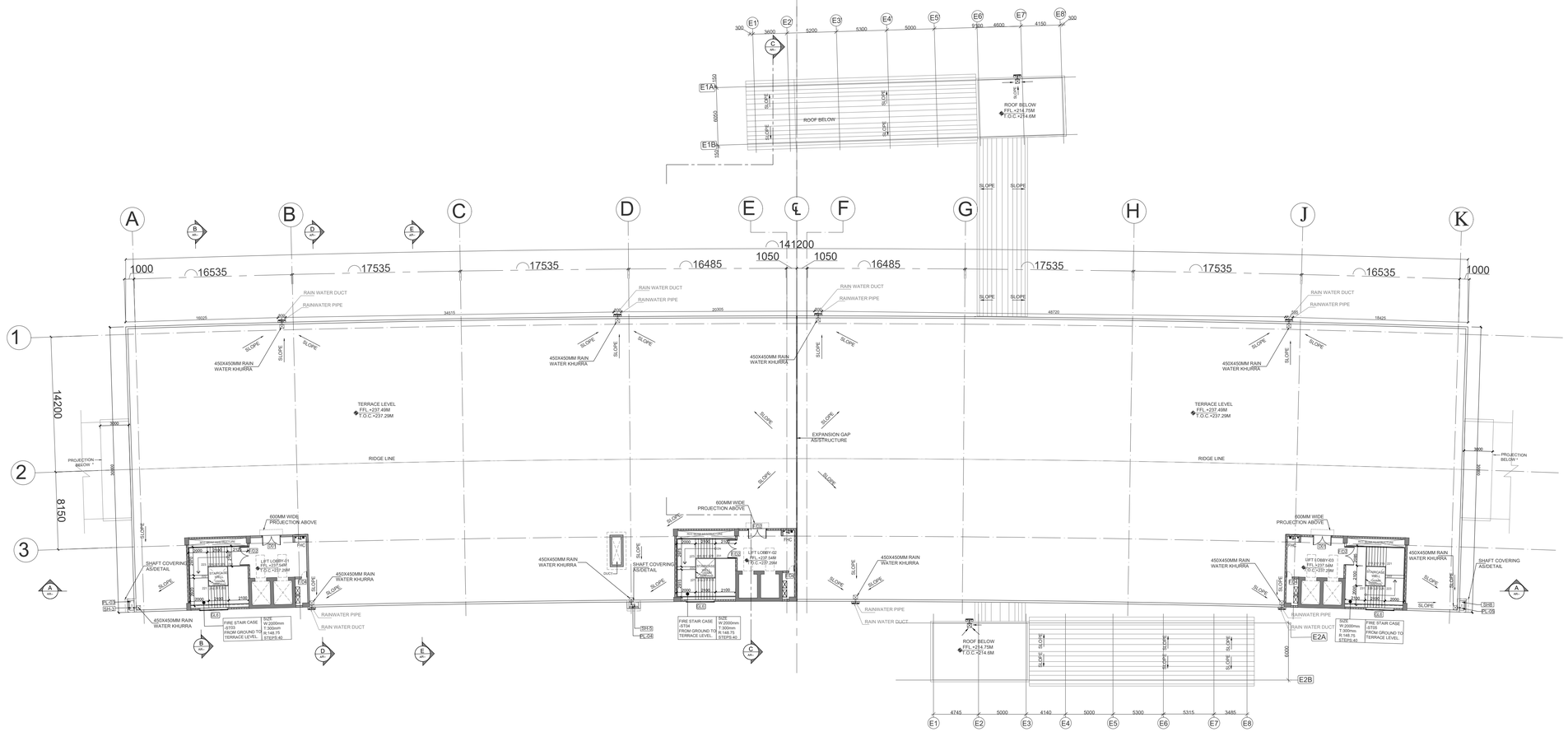
DRG. NO.: NGNDD-01-LKT-NMRC-ST-XX-TD-PD-AR-1006

TOWARDS NOIDA SEC-51

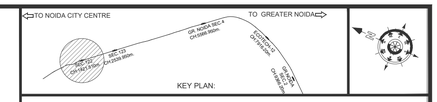
TOWARDS KNOWLEDGE PARK-V

1

NOIDA SEC.122 CH:1420.00m.



TERRACE LEVEL PLAN



WINDOW SCHEDULE

S NO.	WINDOW NO.	WIDTH	HEIGHT	SILL HEIGHT	LINTEL HEIGHT	REMARKS
1	GL1	3000	11340	--	--	GROUN & CONCOURSE
2	GL2	2500	11340	--	--	GROUN & CONCOURSE
3	GL3	3000	5000	--	--	GROUN & CONCOURSE
4	GL3A	2000	5000	--	--	GROUN & CONCOURSE
5	GL4	2500	4000	--	--	CONCOURSE
6	GL5	3000	4000	--	--	CONCOURSE
7	GL6	3000	9000	--	--	PD-1&2
8	GL7	2500	9000	--	--	PD-1&2
9	GRC1	3000	4500	--	--	PLATFORM
10	GRC2	2500	4500	--	--	PLATFORM
11	V1	1000	600	2100	2700	TOILET & CLEANERS ROOM
12	V2	1000	600	2100	2700	ASS ROOM
13	V3	600	600	2100	2700	JANITOR'S ROOM

DOOR SCHEDULE

S NO.	DOOR NO.	OPENING WIDTH	OPENING HEIGHT	PANEL	FIRE RESISTANCE IN HRS.	LOCATION
1	F/D1	2400	2400	DOUBLE LEAF	TWO HOURS	ASS ROOM & CORRIDOR
2	F/D2	2000	2400	DOUBLE LEAF	TWO HOURS	FIRE EXIT DOOR
3	F/D3	1800	2400	DOUBLE LEAF	TWO HOURS	TECHNICAL ROOMS
4	F/D4	750	2000	SINGLE LEAF	TWO HOURS	FIRE SHAFT
5	FSD1	3000	4000	FOLDING DOOR	---	GROUND STATION ENTRY
6	FSD2	3000	4000	FOLDING DOOR	---	CONCOURSE STATION ENTRY
7	FGD1	3000	2400	GLAZED DOOR	TWO HOURS	PD ENTRY EXCEPT G.F.
8	D01	2000	2400	DOUBLE LEAF	---	TERRACE & MESS ROOM
9	D02	1500	2100	DOUBLE LEAF	---	STORAGE ROOM
10	D03	1200	2100	DOUBLE LEAF	---	TOILET
11	D04	1000	2100	SINGLE LEAF	---	U05,U06,U07,U09,U12,U14/16,U21
12	D05	900	2100	SINGLE LEAF	---	CASH SECURITY
13	D06	900	2100	SINGLE LEAF	---	TOILET
14	D07	750	2100	DOUBLE LEAF	---	TOILET
15	D08	600	2000	SINGLE LEAF	---	PLUMBING SHAFT
16	D09	1200	2100	SINGLE LEAF	---	PSB
17	RS1	4000	3500	ROLLING SHUTTER	---	ASS ROOM
18	RS2	4000	2700	ROLLING SHUTTER	---	DG ROOM
19	RS3	3000	2700	ROLLING SHUTTER	---	GROUND PD ENTRY

SHAFT SCHEDULE

S NO.	SHAFT CODE	SHAFT SIZE	CUT OUT CODE	CUT OUT SIZE	CUT OUT IN SLAB GR	CONC. PL	PD-1/PD-2	TL	SHAFT LOCATION
1	SH-1	1350x2250	ELE-01	600x650	X				GROUND - CONC.
			S&T-01	600x650	X				
2	SH-2	1920x1450	ELE-02	700x625	X				GROUND - CONC.
			S&T-02	700x625	X				
3	SH-3 DUCT	700x1400	PL-03	500x1000	X	X	X	X	GROUND - TERRACE
4	SH-4	1250x2800	ELE-03	450x750	X	X	X	X	GROUND - TERRACE
			S&T-03	450x750	X	X	X	X	
5	SH-5 DUCT	1400x700	PL-04	1000x500	X	X	X	X	GROUND - TERRACE
6	SH-6	1250x2800	ELE-04	450x750		X			CONC. - PLATFORM
7	SH-7	1250x2800	ELE-05	450x750	X	X	X	X	CONC. - TERRACE
			S&T-05	450x750	X	X	X	X	
8	SH-8 DUCT	700x1400	PL-05	500x1000	X	X	X	X	GROUND - TERRACE
9	SH-9 DUCT	1600x1000	PL-06	1200x800	X				GROUND - CONCOURSE
10	SH-10	AS/PLAN	ETH-01	850x325	X				GROUND - CONCOURSE
11	SH-11	1200x2515	ELE-06	450x925		X			CONCOURSE-PLATFORM
			S&T-06	450x925		X			
12	SH-12	1200x2550	ELE-07	450x925		X			CONCOURSE-PLATFORM
			S&T-07	450x925		X			

NOTE.-GR=GROUND,CONC.=CONCOURE,PL.=PLATFORM,TL=TERRACE

LIFT SCHEDULE

S NO.	LIFT CODE	CUT OUT SIZE	LOCATION
1	LIFT-01	2500x1950	GR TO CONC.
2	LIFT-02	2500x1950	GR TO CONC.
3	LIFT-03	1950x2500	GR TO TL.
4	LIFT-04	1950x2500	GR TO TL.
5	LIFT-05	1950x2500	GR TO TL.
6	LIFT-06	1950x2500	GR TO TL.
7	LIFT-07	1950x2500	GR TO TL.
8	LIFT-08	1950x2500	GR TO TL.
9	LIFT-09	2550x2150	CONC. TO PL.
10	LIFT-10	2550x2150	CONC. TO PL.

STAIR CASE SCHEDULE

STAICASE NO.	WIDTH	LOCATION
ST-01	3800	GR. TO CONC.
ST-02	3800	GR. TO CONC.
ST-03	2000	GR. TO TL.
ST-04	2000	GR. TO TL.
ST-05	2000	GR. TO TL.
ST-06	4500	CONC. TO PL.
ST-07	3600	CONC. TO PL.
ST-08	3600	CONC. TO PL.
ST-09	4500	CONC. TO PL.

GENERAL NOTES :

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METRES, UNTILL OTHERWISE MENTIONED.,
2. ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
3. DIMENSIONS OF RCC WALLS IN THE SCHEDULE ARE INDICATIVE AND MAY VARY AS PER FINAL STRUCTURAL DESIGN.
4. MINIMUM INTERNAL CLEARANCES ARE MANDATORY.
5. LOCATION AND NOS. OF MAIN COLUMNS SHALL BE AS PER STRUCTURAL DESIGN.
6. ACTUAL SIZES OF CUTOUTS AND OPENINGS IN STRUCTURAL SLABS AND WALLS SHALL BE AS PER SEM DRAWING.
7. STRUCTURAL WALL PROFILE AND TBM SHAFTS SIZE TO SUIT THE FINAL TRACK ALIGNMENT AND AS PER CONTRACTOR'S DESIGN.
8. WHEREVER INTERNAL PARTITION WALLS ARE INDICATED AS RCC WALLS, IT SHALL BE MANDATORY TO FOLLOW THE RCC WALL OF SPECIFIED THICKNESS.
9. ESCALATOR AND LIFT SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT.
10. FHC NICHE SHOULD BE MADE AS PER FIRE DRAWINGS.
11. LOCATION AND SIZE OF TEMPORARY CUTOUT FOR EQUIPMENT LOWERING SHALL BE CONFIRMED BY SYSTEMWIDE CONTRACTOR.
12. CLEAR HEIGHTS GIVEN IN SECTIONS ARE SUBJECT TO STRUCTURAL DESIGNS.
13. ESCALATOR AND LIFT SIZES ARE INDICATIVE AND FINAL SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT.
14. REFER VENDOR AND FABRICATOR DRAWING FOR ALL FINAL TERMINATION AND FIXING DETAIL.

* PROJECTIONS NEED TO BE TAKEN INTO CONSIDERATION AT TIME OF CONSTRUCTION FOR FUTURE CONSTRUCTABILITY.

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		25.05.2021
CHECKED BY	JANNU TYAGI		25.05.2021
DESIGNED BY	NAINA CHOHAN		25.05.2021
DRAWN BY	SHISHUPAL		25.05.2021

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS BY NMRC/GC	25.05.2021	
R01	GENERAL COMMENTS BY NMRC	11.09.2020	

TENDER DRAWING

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

TERRACE LEVEL PLAN
TYPICAL STATION

SCALE 1:250

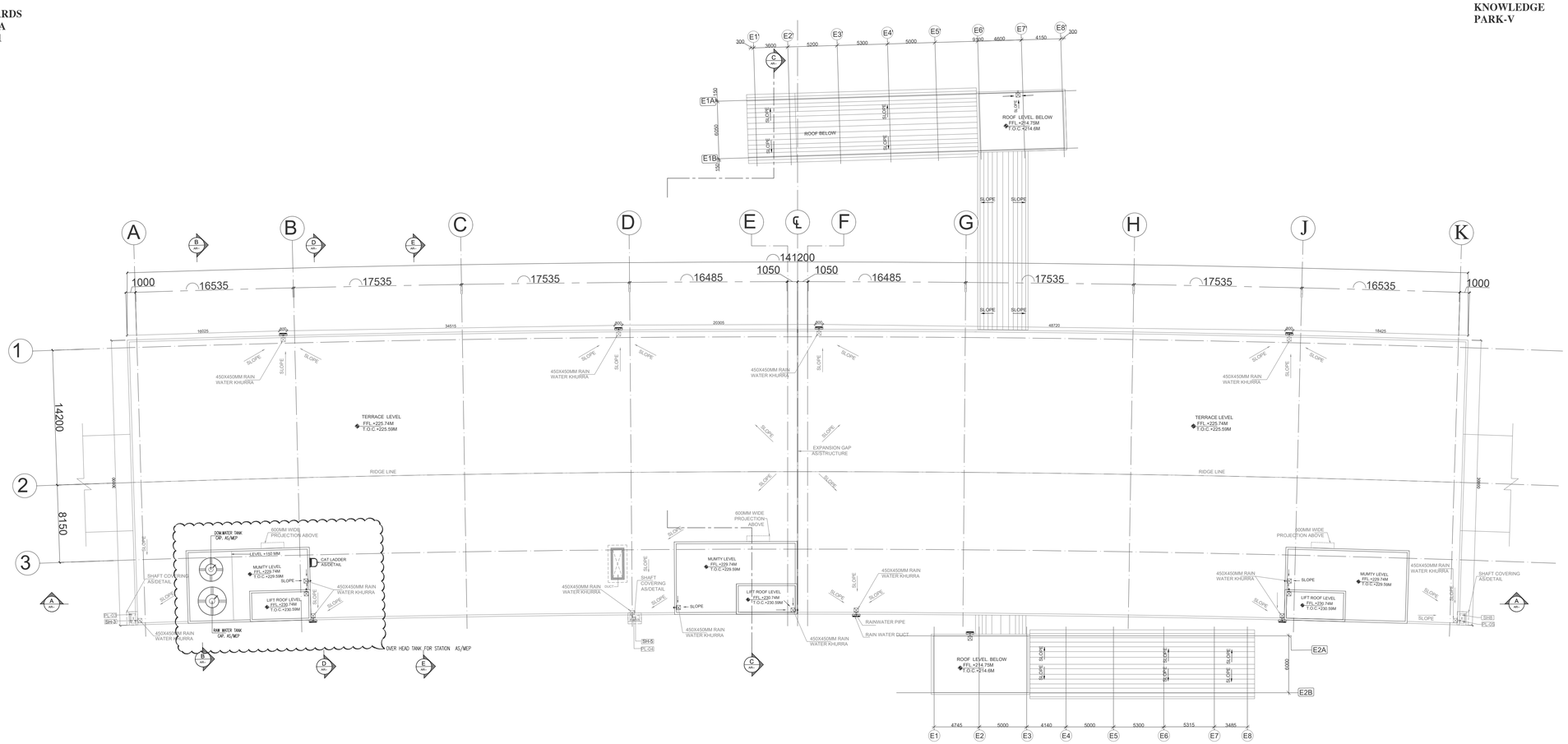
DATE 25.05.2021

REV. R02

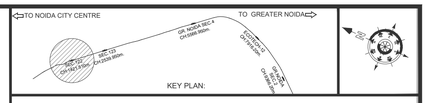
DRG. NO.: NGNDD-01-LKT-NMRC-ST-XX-TD-TR-AR-1007

TOWARDS NOIDA SEC-51

TOWARDS KNOWLEDGE PARK-V



TERRACE/MUMTY LEVEL PLAN WITHOUT FUTURE PD



GENERAL NOTES :

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METRES, UNTILL OTHERWISE MENTIONED.,
2. ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
3. DIMENSIONS OF RCC WALLS IN THE SCHEDULE ARE INDICATIVE AND MAY VARY AS PER FINAL STRUCTURAL DESIGN.
4. MINIMUM INTERNAL CLEARANCES ARE MANDATORY.
5. LOCATION AND NOS. OF MAIN COLUMNS SHALL BE AS PER STRUCTURAL DESIGN.
6. ACTUAL SIZES OF CUTOUTS AND OPENINGS IN STRUCTURAL SLABS AND WALLS SHALL BE AS PER SEM DRAWING.
7. STRUCTURAL WALL PROFILE AND TBM SHAFTS SIZE TO SUIT THE FINAL TRACK ALIGNMENT AND AS PER CONTRACTOR'S DESIGN.
8. WHEREVER INTERNAL PARTITION WALLS ARE INDICATED AS RCC WALLS, IT SHALL BE MANDATORY TO FOLLOW THE RCC WALL OF SPECIFIED THICKNESS.
9. ESCALATOR AND LIFT SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT.
10. FHC NICHE SHOULD BE MADE AS PER FIRE DRAWINGS.
11. LOCATION AND SIZE OF TEMPORARY CUTOUT FOR EQUIPMENT LOWERING SHALL BE CONFIRMED BY SYSTEMWIDE CONTRACTOR.
12. CLEAR HEIGHTS GIVEN IN SECTIONS ARE SUBJECT TO STRUCTURAL DESIGNS.
13. ESCALATOR AND LIFT SIZES ARE INDICATIVE AND FINAL SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT.
14. REFER VENDOR AND FABRICATOR DRAWING FOR ALL FINAL TERMINATION AND FIXING DETAIL.

* PROJECTIONS NEED TO BE TAKEN INTO CONSIDERATION AT TIME OF CONSTRUCTION FOR FUTURE CONSTRUCTABILITY.

TENDER DRAWING

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+011-45565814-18
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE
The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.
CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		25.05.2021
CHECKED BY	JANNU TYAGI		25.05.2021
DESIGNED BY	NAINA CHOHAN		25.05.2021
DRAWN BY	SHISHUPAL		25.05.2021

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS BY NMRC/GC	25.05.2021	
R01	GENERAL COMMENTS BY NMRC	11.09.2020	

NOIDA METRO RAIL CORPORATION LTD.

TITLE: TERRACE/MUMTY LEVEL PLAN WITHOUT FUTURE PD TYPICAL STATION

SCALE 1:250

DATE 25.05.2021

REV. R02

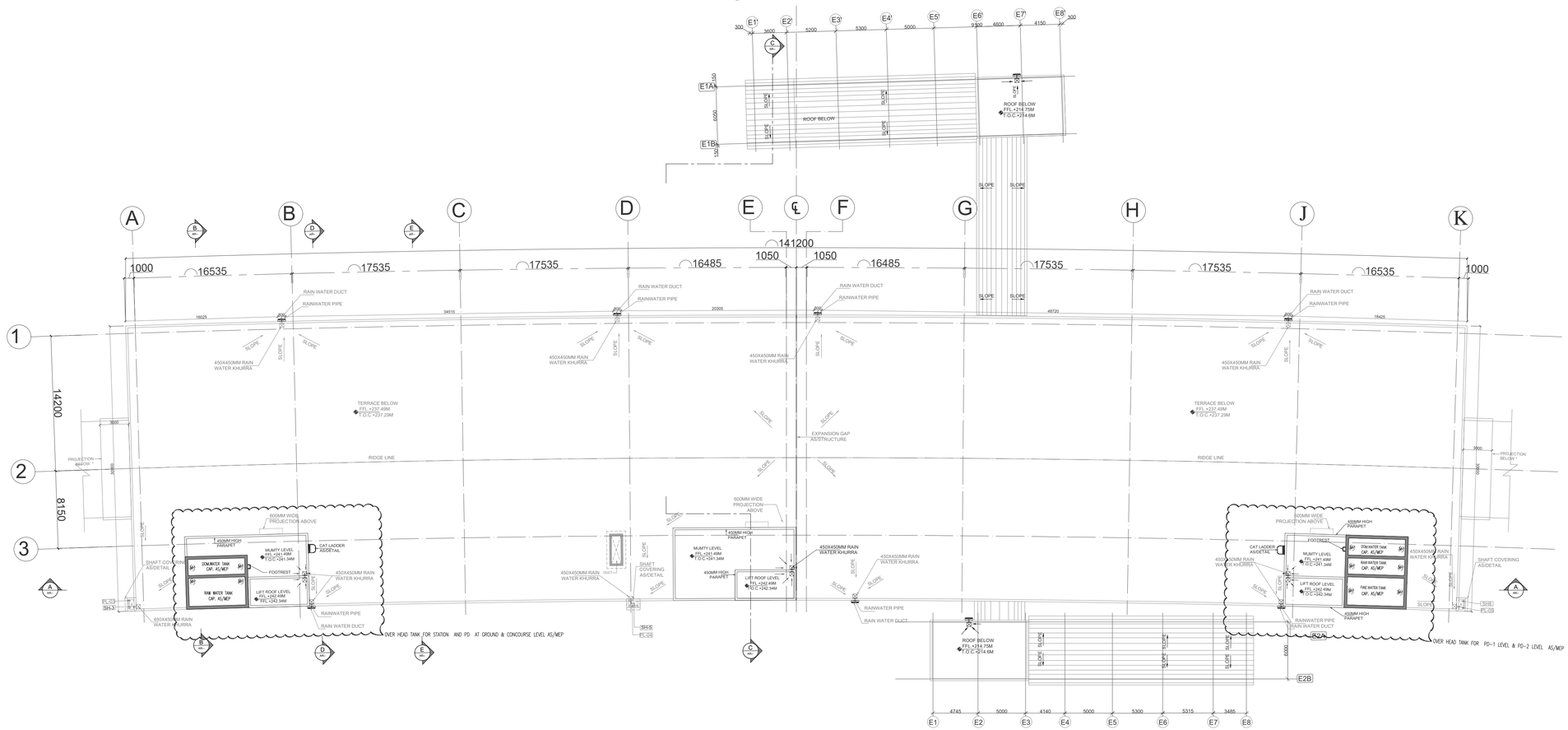
DRG. NO.: NGNDD-01-LKT-NMRC-ST-XX-TD-TR-AR-1008

TOWARDS NOIDA SEC-51

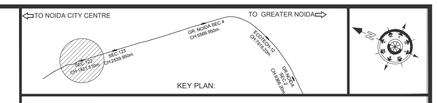
TOWARDS KNOWLEDGE PARK-V

1

NOIDA SEC.122
CH:1420.00m.



MUMTY/OHT LEVEL PLAN WITH FUTURE PD



GENERAL NOTES :

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METRES, UNTILL OTHERWISE MENTIONED.,
2. ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
3. DIMENSIONS OF RCC WALLS IN THE SCHEDULE ARE INDICATIVE AND MAY VARY AS PER FINAL STRUCTURAL DESIGN.
4. MINIMUM INTERNAL CLEARANCES ARE MANDATORY.
5. LOCATION AND NOS. OF MAIN COLUMNS SHALL BE AS PER STRUCTURAL DESIGN.
6. ACTUAL SIZES OF CUTOUTS AND OPENINGS IN STRUCTURAL SLABS AND WALLS SHALL BE AS PER SEM DRAWING.
7. STRUCTURAL WALL PROFILE AND TBM SHAFTS SIZE TO SUIT THE FINAL TRACK ALIGNMENT AND AS PER CONTRACTOR'S DESIGN.
8. WHEREVER INTERNAL PARTITION WALLS ARE INDICATED AS RCC WALLS, IT SHALL BE MANDATORY TO FOLLOW THE RCC WALL OF SPECIFIED THICKNESS.
9. ESCALATOR AND LIFT SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT.
10. FHC NICHE SHOULD BE MADE AS PER FIRE DRAWINGS.
11. LOCATION AND SIZE OF TEMPORARY CUTOUT FOR EQUIPMENT LOWERING SHALL BE CONFIRMED BY SYSTEMWIDE CONTRACTOR.
12. CLEAR HEIGHTS GIVEN IN SECTIONS ARE SUBJECT TO STRUCTURAL DESIGNS.
13. ESCALATOR AND LIFT SIZES ARE INDICATIVE AND FINAL SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT.
14. REFER VENDOR AND FABRICATOR DRAWING FOR ALL FINAL TERMINATION AND FIXING DETAIL.

* PROJECTIONS NEED TO BE TAKEN INTO CONSIDERATION AT TIME OF CONSTRUCTION FOR FUTURE CONSTRUCTABILITY.

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE
The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.
CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		25.05.2021
CHECKED BY	JANNU TYAGI		25.05.2021
DESIGNED BY	NAINA CHOHAN		25.05.2021
DRAWN BY	SHISHUPAL		25.05.2021

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT
NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS BY NMRC/GC	25.05.2021	
R01	GENERAL COMMENTS BY NMRC	11.09.2020	

TENDER DRAWING

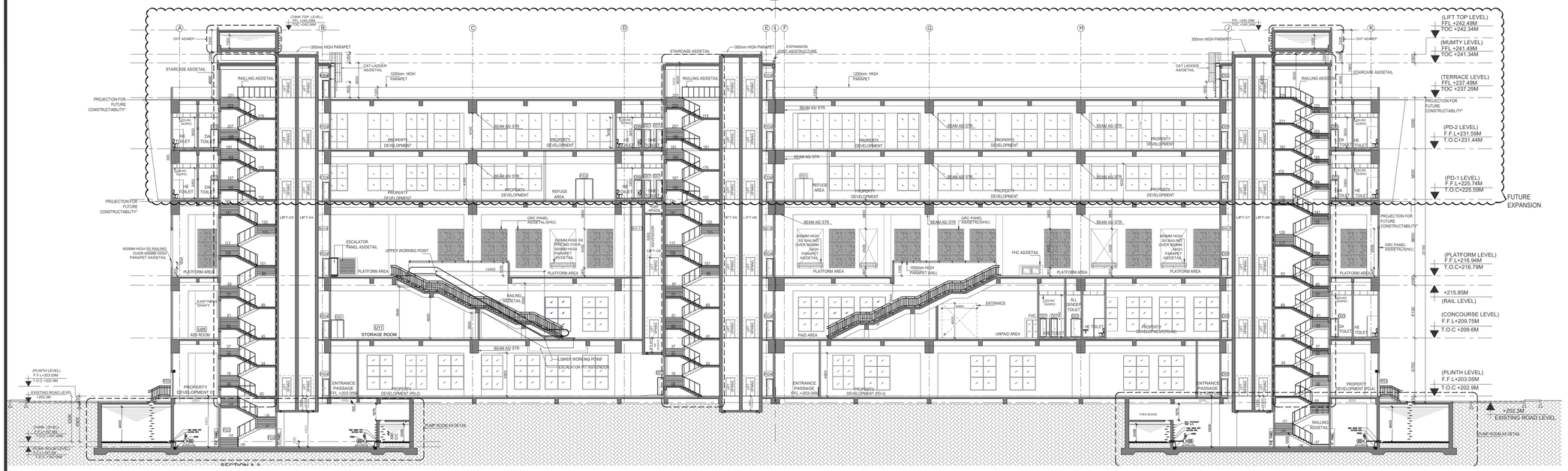
NOIDA METRO RAIL CORPORATION LTD.

TITLE:
MUMTY /OHT LEVEL PLAN
TYPICAL STATION

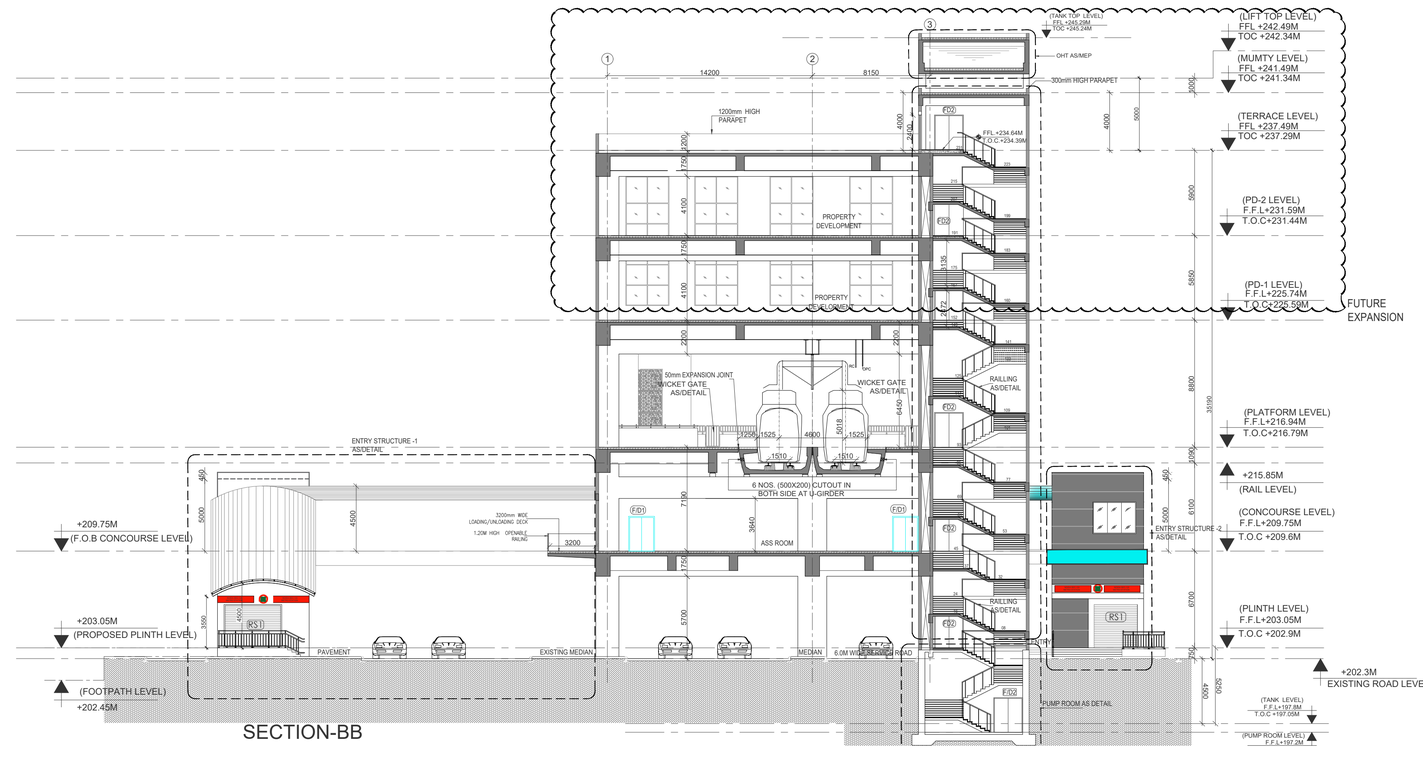
SCALE 1:250
DATE 25.05.2021
REV. R02

DRG. NO.: NGNDD-01-LKT-NMRC-ST-XX-TD-TR-AR-1009

1 NOIDA SEC.122 CH:1420.00m.



SECTION-AA



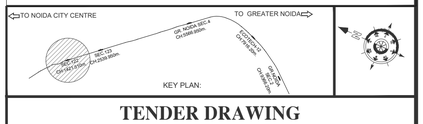
SECTION-BB

GENERAL NOTES :

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METRES, UNTILL OTHERWISE MENTIONED.,
2. ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
3. DIMENSIONS OF RCC WALLS IN THE SCHEDULE ARE INDICATIVE AND MAY VARY AS PER FINAL STRUCTURAL DESIGN.
4. MINIMUM INTERNAL CLEARANCES ARE MANDATORY.
5. LOCATION AND NOS. OF MAIN COLUMNS SHALL BE AS PER STRUCTURAL DESIGN.
6. ACTUAL SIZES OF CUTOUTS AND OPENINGS IN STRUCTURAL SLABS AND WALLS SHALL BE AS PER SEM DRAWING.
7. STRUCTURAL WALL PROFILE AND TBM SHAFTS SIZE TO SUIT THE FINAL TRACK ALIGNMENT AND AS PER CONTRACTOR'S DESIGN.
8. WHEREVER INTERNAL PARTITION WALLS ARE INDICATED AS RCC WALLS, IT SHALL BE MANDATORY TO FOLLOW THE RCC WALL OF SPECIFIED THICKNESS.
9. ESCALATOR AND LIFT SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT.
10. FHC NICHE SHOULD BE MADE AS PER FIRE DRAWINGS.
11. LOCATION AND SIZE OF TEMPORARY CUTOUT FOR EQUIPMENT LOWERING SHALL BE CONFIRMED BY SYSTEMWIDE CONTRACTOR.
12. CLEAR HEIGHTS GIVEN IN SECTIONS ARE SUBJECT TO STRUCTURAL DESIGNS.
13. ESCALATOR AND LIFT SIZES ARE INDICATIVE AND FINAL SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT.
14. REFER VENDOR AND FABRICATOR DRAWING FOR ALL FINAL TERMINATION AND FIXING DETAIL.

* PROJECTIONS NEED TO BE TAKEN INTO CONSIDERATION AT TIME OF CONSTRUCTION FOR FUTURE CONSTRUCTABILITY.

KEY PLAN



TENDER DRAWING

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-45565814-18
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		25.05.2021
CHECKED BY	JANNU TYAGI		25.05.2021
DESIGNED BY	NAINA CHOHAN		25.05.2021
DRAWN BY	SHISHUPAL		25.05.2021

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS BY NMRC/GC	25.05.2021	
R01	GENERAL COMMENTS BY NMRC	11.09.2020	

NOIDA METRO RAIL CORPORATION LTD.

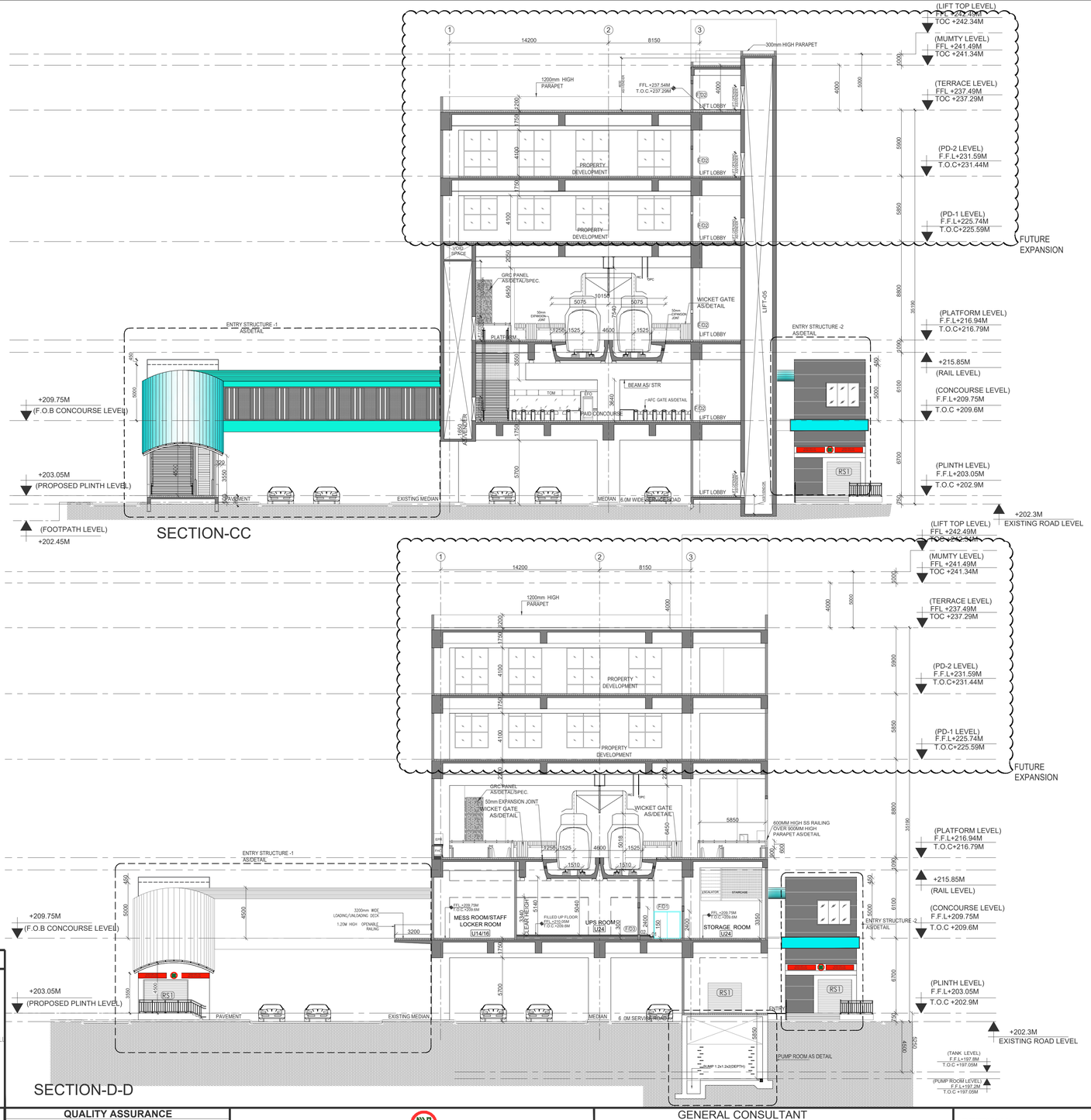
TITLE:
SECTION-A-A & B-B
TYPICAL STATION

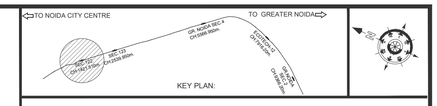
SCALE 1:250

DATE 25.05.2021

REV. R02

DRG. NO.: NGNDD-01-LKT-NMRC-ST-XX-TD-SEC-AR-1008





KEY PLAN

TENDER DRAWING

GENERAL NOTES :

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METRES, UNTILL OTHERWISE MENTIONED.,
2. ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
3. DIMENSIONS OF RCC WALLS IN THE SCHEDULE ARE INDICATIVE AND MAY VARY AS PER FINAL STRUCTURAL DESIGN.
4. MINIMUM INTERNAL CLEARANCES ARE MANDATORY.
5. LOCATION AND NOS. OF MAIN COLUMNS SHALL BE AS PER STRUCTURAL DESIGN.
6. ACTUAL SIZES OF CUTOUTS AND OPENINGS IN STRUCTURAL SLABS AND WALLS SHALL BE AS PER SEM DRAWING.
7. STRUCTURAL WALL PROFILE AND TBM SHAFTS SIZE TO SUIT THE FINAL TRACK ALIGNMENT AND AS PER CONTRACTOR'S DESIGN.
8. WHEREVER INTERNAL PARTITION WALLS ARE INDICATED AS RCC WALLS, IT SHALL BE MANDATORY TO FOLLOW THE RCC WALL OF SPECIFIED THICKNESS.
9. ESCALATOR AND LIFT SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT.
10. FHC NICHE SHOULD BE MADE AS PER FIRE DRAWINGS.
11. LOCATION AND SIZE OF TEMPORARY CUTOUT FOR EQUIPMENT LOWERING SHALL BE CONFIRMED BY SYSTEMWIDE CONTRACTOR.
12. CLEAR HEIGHTS GIVEN IN SECTIONS ARE SUBJECT TO STRUCTURAL DESIGNS.
13. ESCALATOR AND LIFT SIZES ARE INDICATIVE AND FINAL SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT.
14. REFER VENDOR AND FABRICATOR DRAWING FOR ALL FINAL TERMINATION AND FIXING DETAIL.

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		25.05.2021
CHECKED BY	JANNU TYAGI		25.05.2021
DESIGNED BY	NAINA CHOHAN		25.05.2021
DRAWN BY	SHISHUPAL		25.05.2021

NO OBJECTION BY NMRC LTD.

MGR (Arch)	DGM (E&M)	DGM (S&T)
DGM (Design)	DGM (RS)	DGM (TEL/AFC)
GM (D&P)	SDGM (P&T)	
MGR (TRACK)	GM (RS&E)	SDGM (S&T)
DGM (CIVIL)		GM (S&T)
JGM (Civil)		
GM (Projects)		
CIVIL	E&M	S & T

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)	MGR-1 (E&M)	MGR (SIG.)
CA (Arch.)	MGR-2 (E&M)	MGR (TEL.)
MGR (CIVIL)	DGM (E&M)	DGM (TEL.)
DGM (CIVIL)	MGR (TRACK)	DGM (S&T)
PD (N-GN)	DGM (TRACK)	GM (S&T)

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS BY NMRC/GC	25.05.2021	
R01	GENERAL COMMENTS BY NMRC	11.09.2020	

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

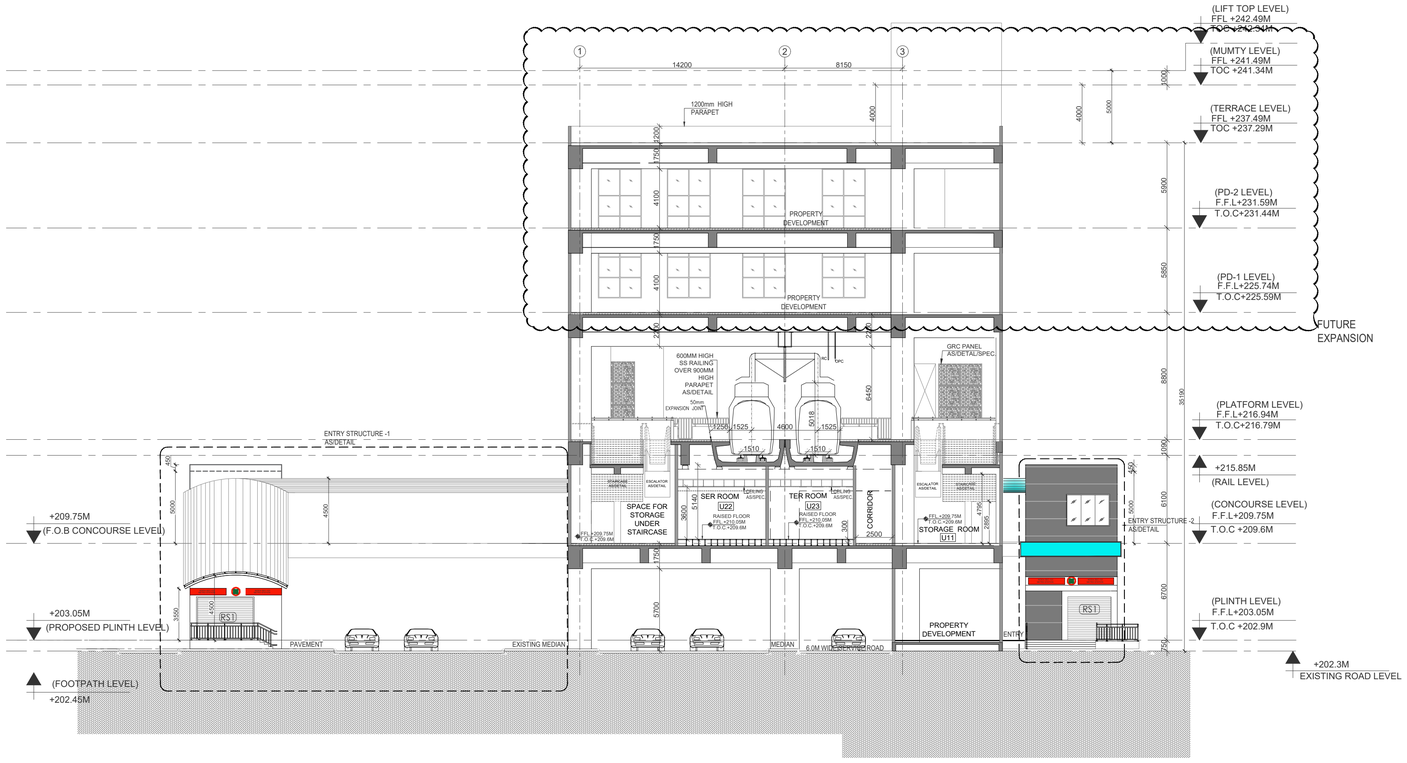
SECTION-C-C & D-D
TYPICAL STATION

SCALE 1:250

DATE 25.05.2021

REV. R02

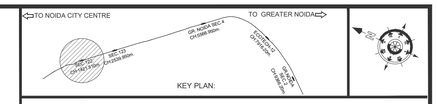
DRG. NO.: NGNDD-01-LKT-NMRC-ST-XX-TD-SEC-AR-1009



SECTION-E-E

GENERAL NOTES :

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METRES, UNTILL OTHERWISE MENTIONED.,
2. ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
3. DIMENSIONS OF RCC WALLS IN THE SCHEDULE ARE INDICATIVE AND MAY VARY AS PER FINAL STRUCTURAL DESIGN.
4. MINIMUM INTERNAL CLEARANCES ARE MANDATORY.
5. LOCATION AND NOS. OF MAIN COLUMNS SHALL BE AS PER STRUCTURAL DESIGN.
6. ACTUAL SIZES OF CUTOUTS AND OPENINGS IN STRUCTURAL SLABS AND WALLS SHALL BE AS PER SEM DRAWING.
7. STRUCTURAL WALL PROFILE AND TBM SHAFTS SIZE TO SUIT THE FINAL TRACK ALIGNMENT AND AS PER CONTRACTOR'S DESIGN.
8. WHEREVER INTERNAL PARTITION WALLS ARE INDICATED AS RCC WALLS, IT SHALL BE MANDATORY TO FOLLOW THE RCC WALL OF SPECIFIED THICKNESS.
9. ESCALATOR AND LIFT SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT.
10. FHC NICHE SHOULD BE MADE AS PER FIRE DRAWINGS.
11. LOCATION AND SIZE OF TEMPORARY CUTOUT FOR EQUIPMENT LOWERING SHALL BE CONFIRMED BY SYSTEMWIDE CONTRACTOR.
12. CLEAR HEIGHTS GIVEN IN SECTIONS ARE SUBJECT TO STRUCTURAL DESIGNS.
13. ESCALATOR AND LIFT SIZES ARE INDICATIVE AND FINAL SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT.
14. REFER VENDOR AND FABRICATOR DRAWING FOR ALL FINAL TERMINATION AND FIXING DETAIL.



KEY PLAN

TENDER DRAWING

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		25.05.2021
CHECKED BY	JANNU TYAGI		25.05.2021
DESIGNED BY	NAINA CHOHAN		25.05.2021
DRAWN BY	SHISHUPAL		25.05.2021

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					
CIVIL		E&M		S & T	

GENERAL CONSULTANT

NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS BY NMRC/GC	25.05.2021	
R01	GENERAL COMMENTS BY NMRC	11.09.2020	

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
SECTION-E-E
TYPICAL STATION

SCALE 1:250

DATE 25.05.2021

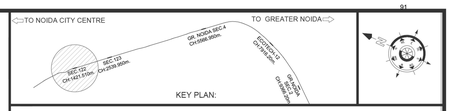
REV. R02

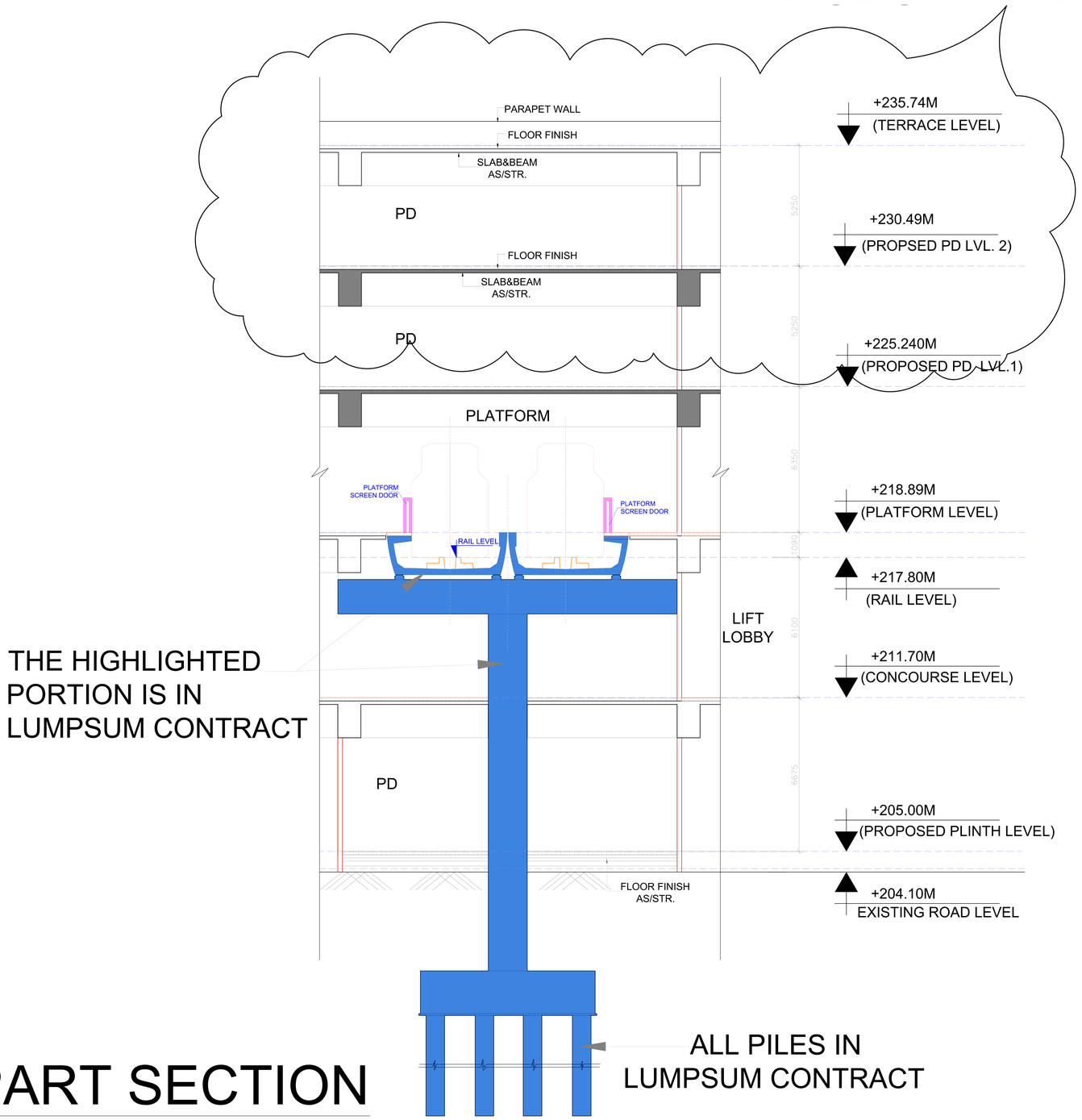
DRG. NO.: NGNDD-01-LKT-NMRC-ST-XX-TD-SEC-AR-1010

TOWARDS NOIDA SEC-51

FUTURE PROPOSAL

TOWARDS KNOWLEDGE PARK-V





THE HIGHLIGHTED PORTION IS IN LUMPSUM CONTRACT

ALL PILES IN LUMPSUM CONTRACT

PART SECTION

TENDER DRAWING

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-45656814-18
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

QUALITY ASSURANCE
The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.
CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		29.04.2021
CHECKED BY	JANNU TYAGI		29.04.2021
DESIGNED BY	NAINA CHOHAN		29.04.2021
DRAWN BY	SHISHUPAL		29.04.2021

NO OBJECTION BY NMRC LTD.

CIVIL		E&M		S & T	
MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL/AFC)	
GM (D&P)		SDGM (P&T)			
MGR (TRACK)		GM (RS&E)		SDGM (S&T)	
DGM (CIVIL)				GM (S&T)	
JGM (Civil)					
GM (Projects)					

GENERAL CONSULTANT
NO OBJECTION BY DMRC

AM (Arch.)		MGR-1 (E&M)		MGR (SIG.)	
CA (Arch.)		MGR-2 (E&M)		MGR (TEL.)	
MGR (CIVIL)		DGM (E&M)		DGM (TEL.)	
DGM (CIVIL)		MGR (TRACK)		DGM (S&T)	
PD (N-GN)		DGM (TRACK)		GM (S&T)	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R02	GENERAL COMMENTS BY NMRC/GC	25.05.2021	
R01	GENERAL COMMENTS BY NMRC	11.09.2020	

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
PART SECTION
TYPICAL STATION

SCALE 1:250

DATE 25.05.2021

REV. R02

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-XX-TD-SEC-AR-1011