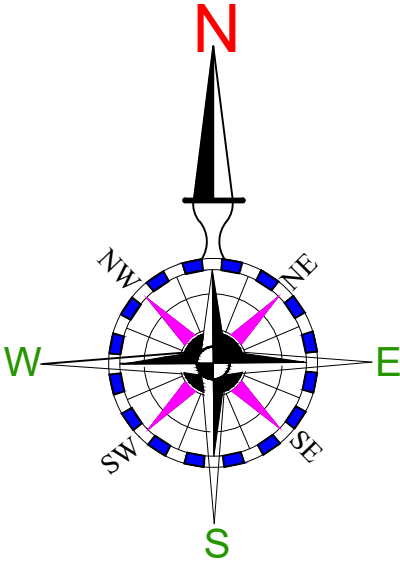
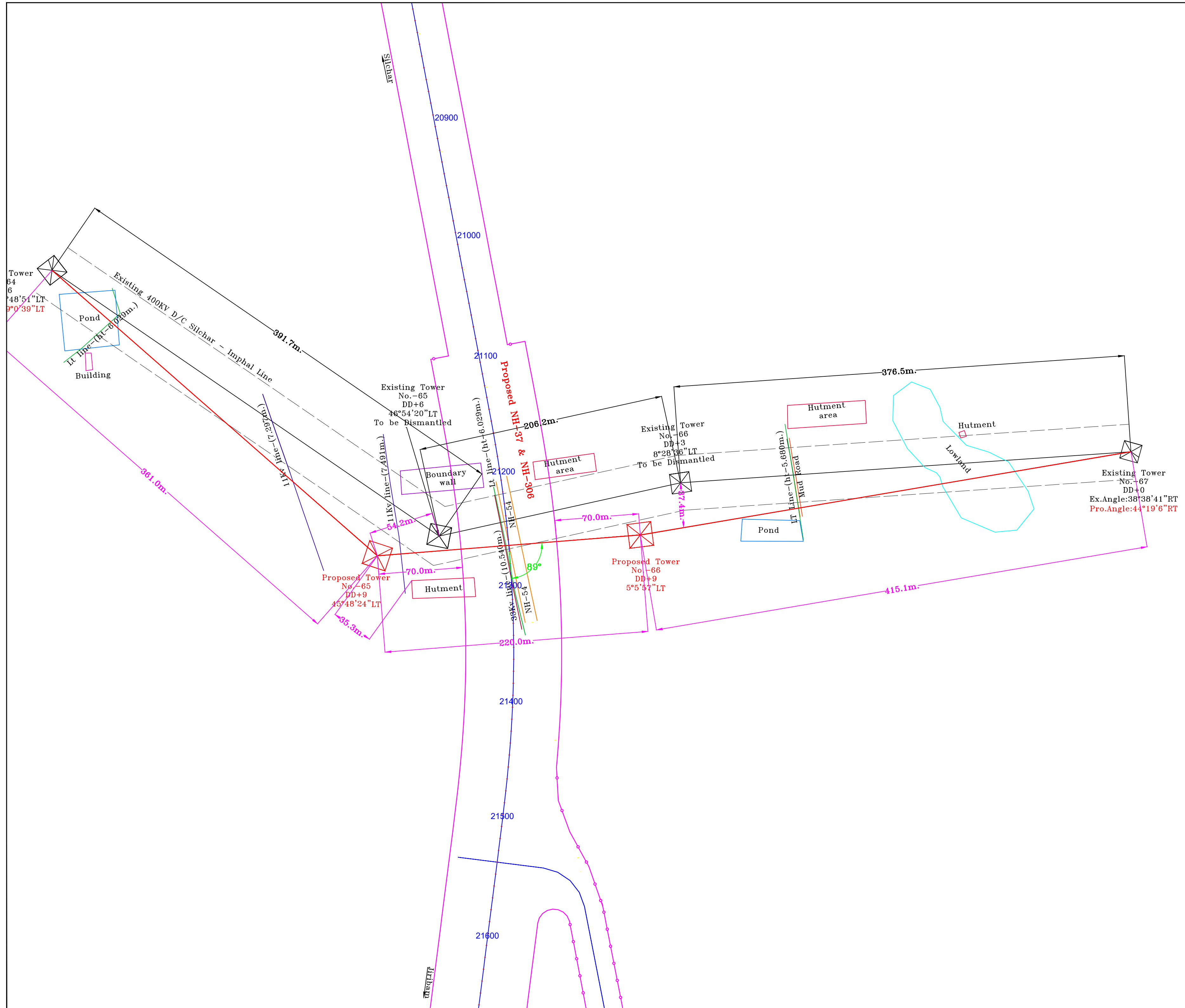




- Existing Transmission Line
- Proposed Re Alignemnt
- Proposed National Highway
- Highway Corridor

Existing Line Length	0.974km
Proposed Line Length	0.996km
Towers to be Dismantled	2
Towers to be Erected	2

Note:
1) List of Towers to be Dismantled
DD+6 Tower : 65, 66
List of Tower to be Erected
DD+9 :Proposed Tower No.-65
DD+9 :Proposed Tower No.-66

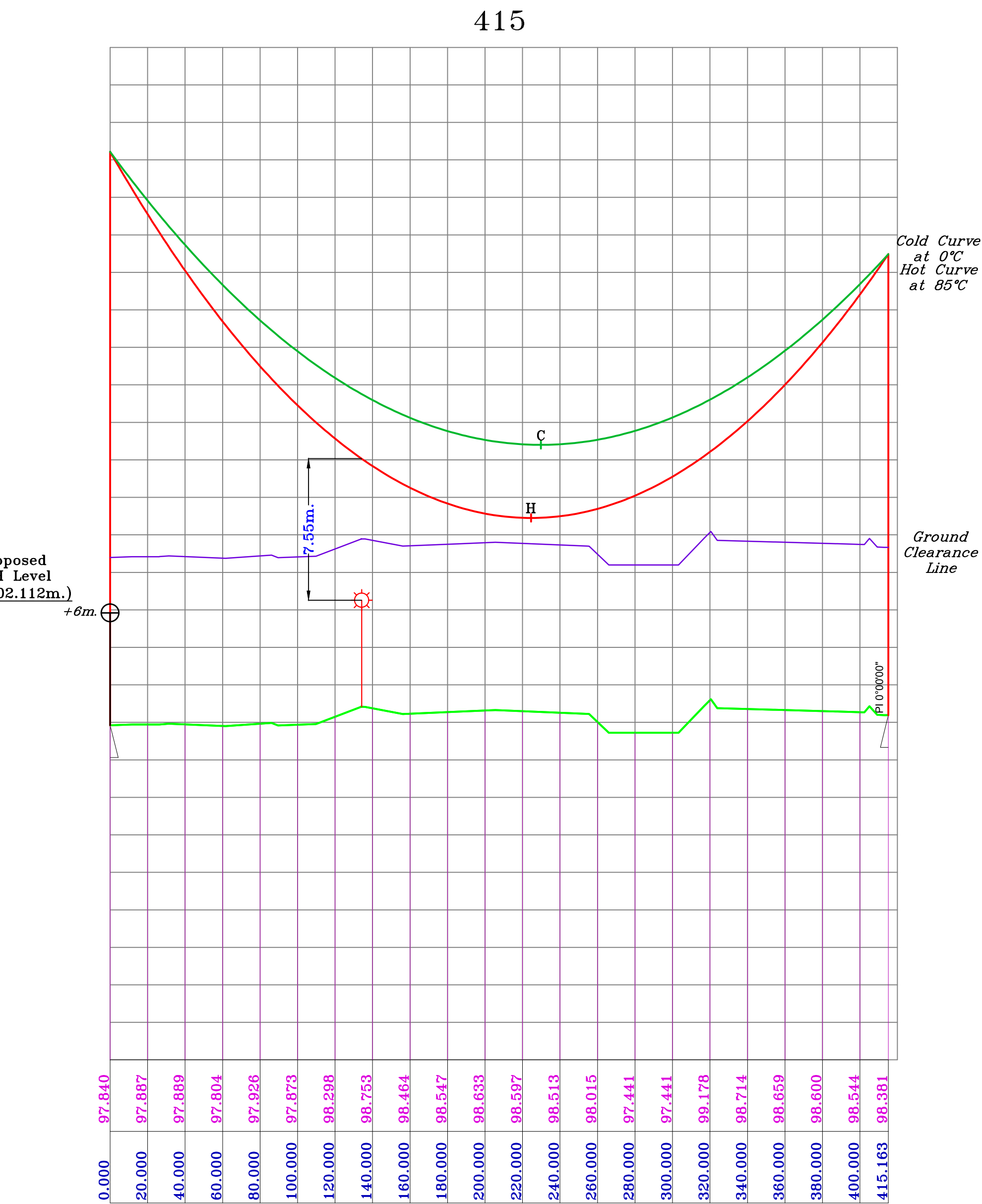
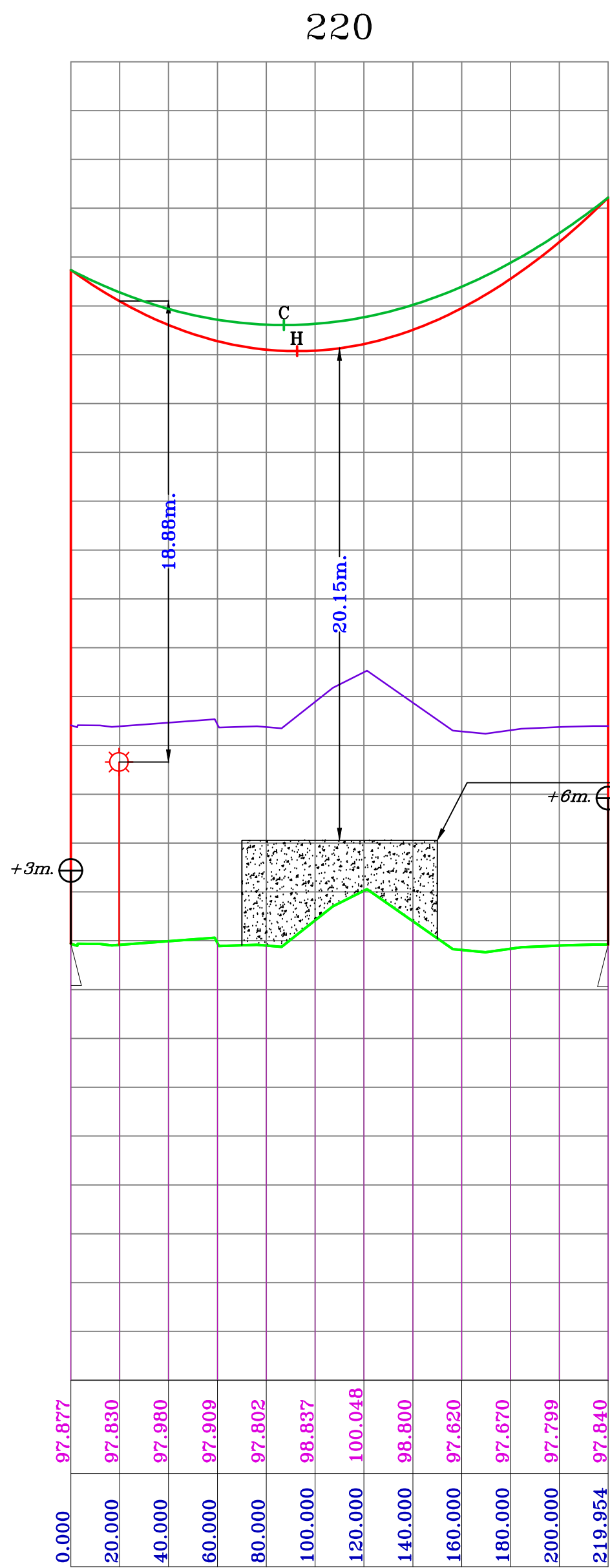
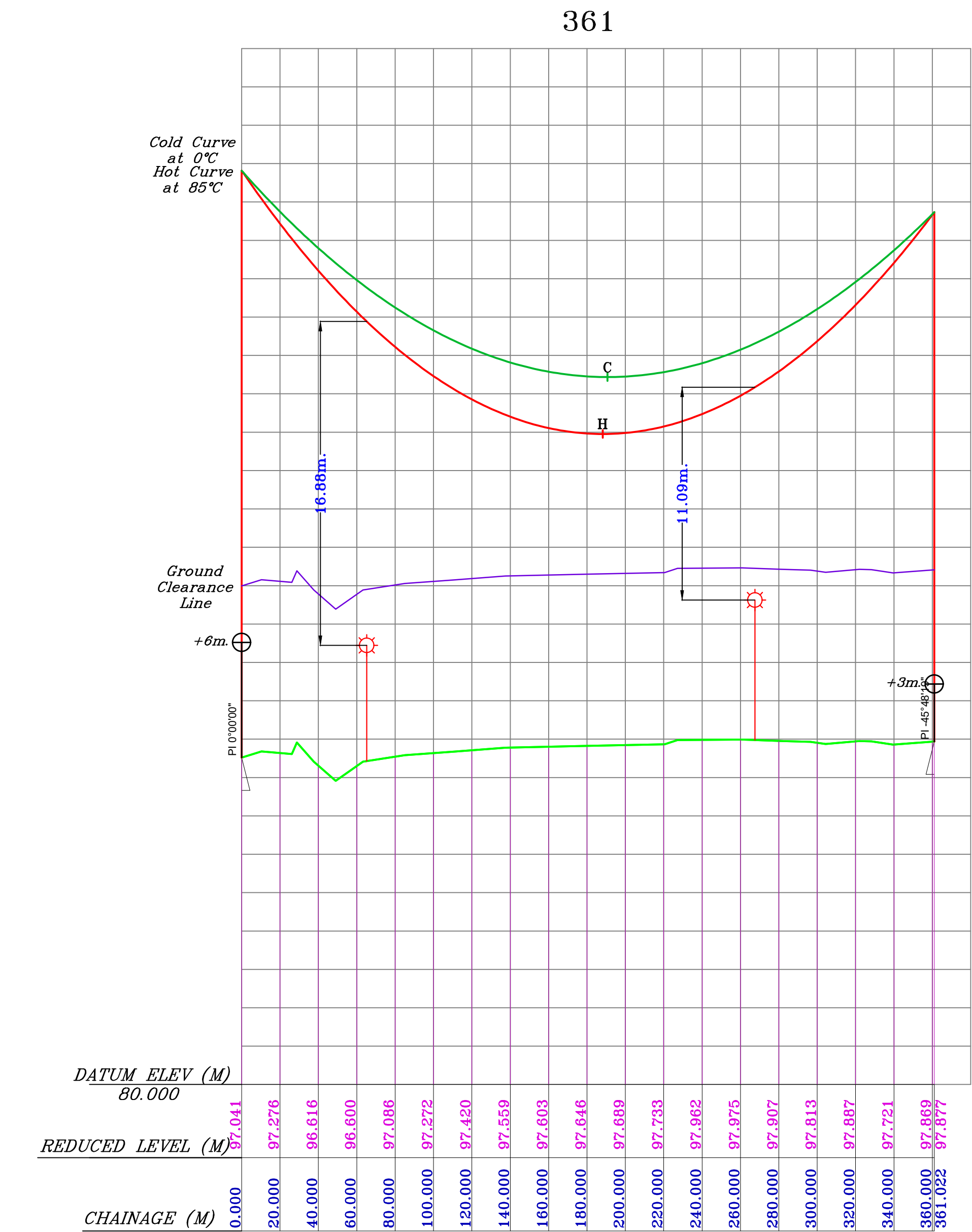
CLIENT:	POWER GRID CORPORATION OF INDIA LIMITED.			
Surveyed By:-	M/S NORTHLINE, HOOGHLY, WEST BENGAL, PIN 712138			
PROJECT TITLE:	Route alignment and detail survey work in connection with shifting of 400KV D/C Silchar-Imphal TL and 400KV D/C Silchar-Melriat TL for development of Economic Corridors, Inter Corridors and Feeder Routes to improve efficiency of Freight movement in India under Bharatmala Pariyojana.			
DRAWING TITLE:	ROUTE ALIGNMENT DRAWING			
SUBMITTED BY	DRAWN BY	CHECKED BY	SCALE- 1:2,000	
			DATE: 21.09.2022	
CHECKED BY	RECOMMENDED BY	APPROVED BY	DRAWING NO	
			NL/PGCIL/SIL-MEL/1	
			SHEET 1/1	REV 00
POWER GRID CORPORATION OF INDIA LIMITED.				

TOWER NO	:	Existing Tower	No.-64
TOWER TYPE	:	DD+6	
SUM OF ADJ-SPAN-M	:	361	
WEIGHT SPAN-M(HOT)	:	0	188 188
WEIGHT SPAN-M(COLD)	:	0	191 191

TOWER NO	:	Proposed Tower	No.-65
TOWER TYPE	:	DD+3	
SUM OF ADJ-SPAN-M	:	581	
WEIGHT SPAN-M(HOT)	:	173	93 265
WEIGHT SPAN-M(COLD)	:	170	87 258

TOWER NO	:	Proposed Tower	No.-66
TOWER TYPE	:	DD+6	
SUM OF ADJ-SPAN-M	:	635	
WEIGHT SPAN-M(HOT)	:	127	225 352
WEIGHT SPAN-M(COLD)	:	133	230 363

TOWER NO	:	Existing Tower	No.-67
TOWER TYPE	:	DD+0	
SUM OF ADJ-SPAN-M	:	415	
WEIGHT SPAN-M(HOT)	:	191	
WEIGHT SPAN-M(COLD)	:	185	



LEGENDS :-

Ground Level	
Ground Clearance Curve	
Lower Conductor	
Well/Pump House	
Tower	
Gantry	
33 KV Line	
11 KV/TT Line	
E.H.T. Line	
Telephone Line	
Mango/Palm/Bamboo	
Houses/Hut/Shed	
Temple	
Nala/River/Pond/Canal	
Metal Road/Mud Road	
Cart Track/Brick Road	
Forest Area	
Pro.Railway Track	
Proposed National Highway	
State Highway	
Pillar	
Existing TR. Line	

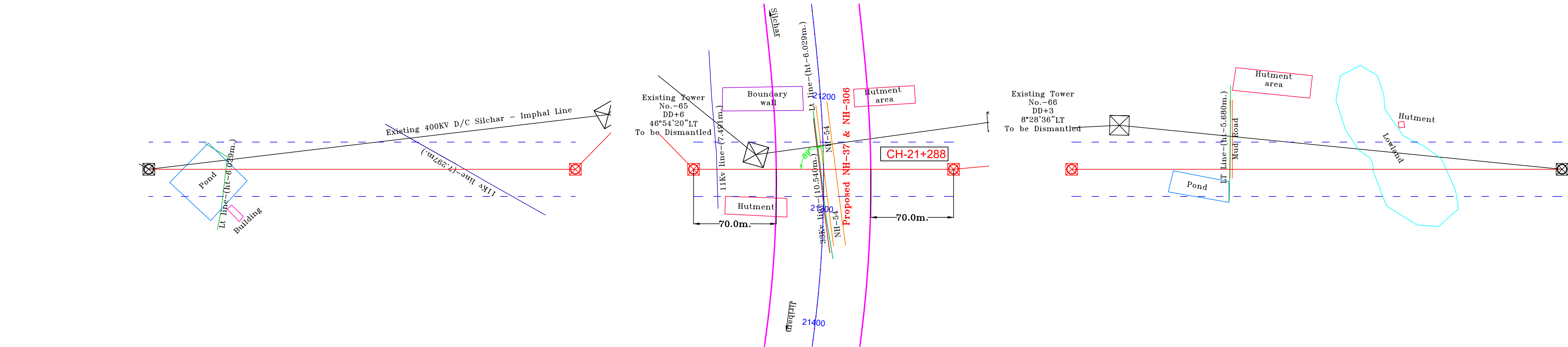
TOWER SPOTTING DATA

CONDUCTOR NAME	ACSR L;APWING
CABLE DIAMETER	38.2 mm
AREA	863.13 Sqmm
WEIGHT	2.667 Kg/m
MOD OF ELASTICITY	7546 Kg/Sqmm
COEF. OFL. EXPANSION	0.0000215/°C
TEMP. RANGE(FULL WIND)	0°C-85°C
NORMAL SPAN (RULLING)	400 m.
MAX. SAG AT 400 m. (HOT)	15.49 m.
GROUND CLEARANCE	8.950 m.
SAG ERROR	0.150 m.
MAX. SAG AT 400 m (COLD)	11.84 m.
TENSION AT 0°C	4505.99 Kg.
TENSION AT 85°	3443.17 Kg.



Notes:-

1. ALL DIMENSIONS ARE IN METER.
2. HORIZONPalm SCALE 1CM. = 20 M.
3. VERTICAL SCALE 1CM. = 02 M.



CLIENT:	POWER GRID CORPORATION OF INDIA LIMITED (A Government of India Enterprise)		
PROJECT TITLE :	Route alignment and detail survey work in connection with shifting of 400KV D/C Silchar-Impal TL and 400KV D/C Silchar-Melriat TL for development of Economic Corridors, Inter Corridors and Feeder Routes to improve efficiency of Freight movement in India under Bharatmala Pariyojana.		
Surveyed By:-	M/S NORTH LINE, HOOGHLY, WEST BENGAL, PIN 712138		
DRAWING TITLE :-	PRFILE DRAWING FOR 400KV D/C SILCHAR-IMPAL TRANSMISSION LINE FROM LOC-64 TO LOC-67.		
Work Order No.	Dtd:		
DRAWN BY	SUBMITTED BY	CHECKED BY	VER- 1cm=2m HOR-1cm=20m
			DATE- 04.11.2022
			DRAWING NO. - PGCL/400KV/SIL-MEL/TL/DW/NO-1
CHECKED BY	RECOMMENDED BY	APPROVED BY	SHEET NO 1/1 REV 00
POWER GRID CORPORATION OF INDIA LIMITED			REV REV

TOWER NO :	Ex. Tower No.121
TOWER TYPE :	DC+0
SUM OF ADJ.SPAN-M :	408
WEIGHT SPAN-M(HOT) :	0 194 194
WEIGHT SPAN-M(COLD) :	0 178 178

407.6

TOWER NO :	Ex. Tower No.122
TOWER TYPE :	DC+6
SUM OF ADJ.SPAN-M :	731
WEIGHT SPAN-M(HOT) :	223 148 371
WEIGHT SPAN-M(COLD) :	229 144 373

323.7

TOWER NO :	Prop. AP-1
TOWER TYPE :	DD+9
SUM OF ADJ.SPAN-M :	596
WEIGHT SPAN-M(HOT) :	175 135 311
WEIGHT SPAN-M(COLD) :	180 135 314

272.0

TOWER NO :	Prop. AP-2
TOWER TYPE :	DD+9
SUM OF ADJ.SPAN-M :	475
WEIGHT SPAN-M(HOT) :	137 140 276
WEIGHT SPAN-M(COLD) :	137 151 289

202.9

TOWER NO :	Prop. AP-3
TOWER TYPE :	DD+3
SUM OF ADJ.SPAN-M :	397
WEIGHT SPAN-M(HOT) :	63 95 159
WEIGHT SPAN-M(COLD) :	62 95 146

194.1

TOWER NO :	Ex. Tower No.125
TOWER TYPE :	DA+3
SUM OF ADJ.SPAN-M :	591
WEIGHT SPAN-M(HOT) :	99 195 294
WEIGHT SPAN-M(COLD) :	99 194 294

396.4

TOWER NO :	Ex. Tower No.126
TOWER TYPE :	DA+3
SUM OF ADJ.SPAN-M :	791
WEIGHT SPAN-M(HOT) :	201 200 401
WEIGHT SPAN-M(COLD) :	202 202 404

384.9

TOWER NO :	Ex. Tower No.127
TOWER TYPE :	DB+0
SUM OF ADJ.SPAN-M :	385
WEIGHT SPAN-M(HOT) :	185
WEIGHT SPAN-M(COLD) :	182

LEGENDS

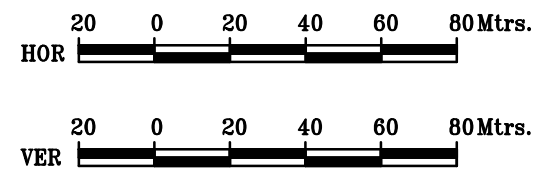
Ground Level	
Hot Conductor	
Cold Conductor	
Alignment	
Power Line Corridor	
Well/Pump House	
Tower	
Gantry	
33 KV Line	
11 KV/LT Line	
E.H.T. Line	
Telephone Line	
Mango/Palm/Bamboo	
House/Hut/Shed	
Temple	
Nala/River/Pond/Canal	
Metal Road/Moram Road/Mud Road	
Cart Track/Brick Road	
Forest Area	
Railway Track	
State Highway	
National Highway	
Pillar	
Existing TR. Line	

400KV D/C TOWER SPOTTING DATA

CONDUCTOR NAME	ACSR LAPWING
CABLE DIAMETER	38.2 mm
AREA	863.13 Sqmm
WEIGHT	2.667 Kg/m
MOD OF ELASTICITY	7546 Kg/Sqmm
COEF. OPL. EXPANSION	0.0000215/°C
TEMP. RANGE(FULL WIND)	0°C-85°C
NORMAL SPAN (RULLING)	400 m.
MAX. SAG AT 400 m. (HOT)	15.49 m.
GROUND CLEARANCE	8.950 m.
SAG ERROR	0.150 m.
MAX. SAG AT 400 m (COLD)	11.84 m.
TENSION AT 0°C	4505.99 Kg.
TENSION AT 85°	3443.17 Kg.

Notes:-
1. ALL DIMENSIONS ARE IN METER OTHERWISE STATED.

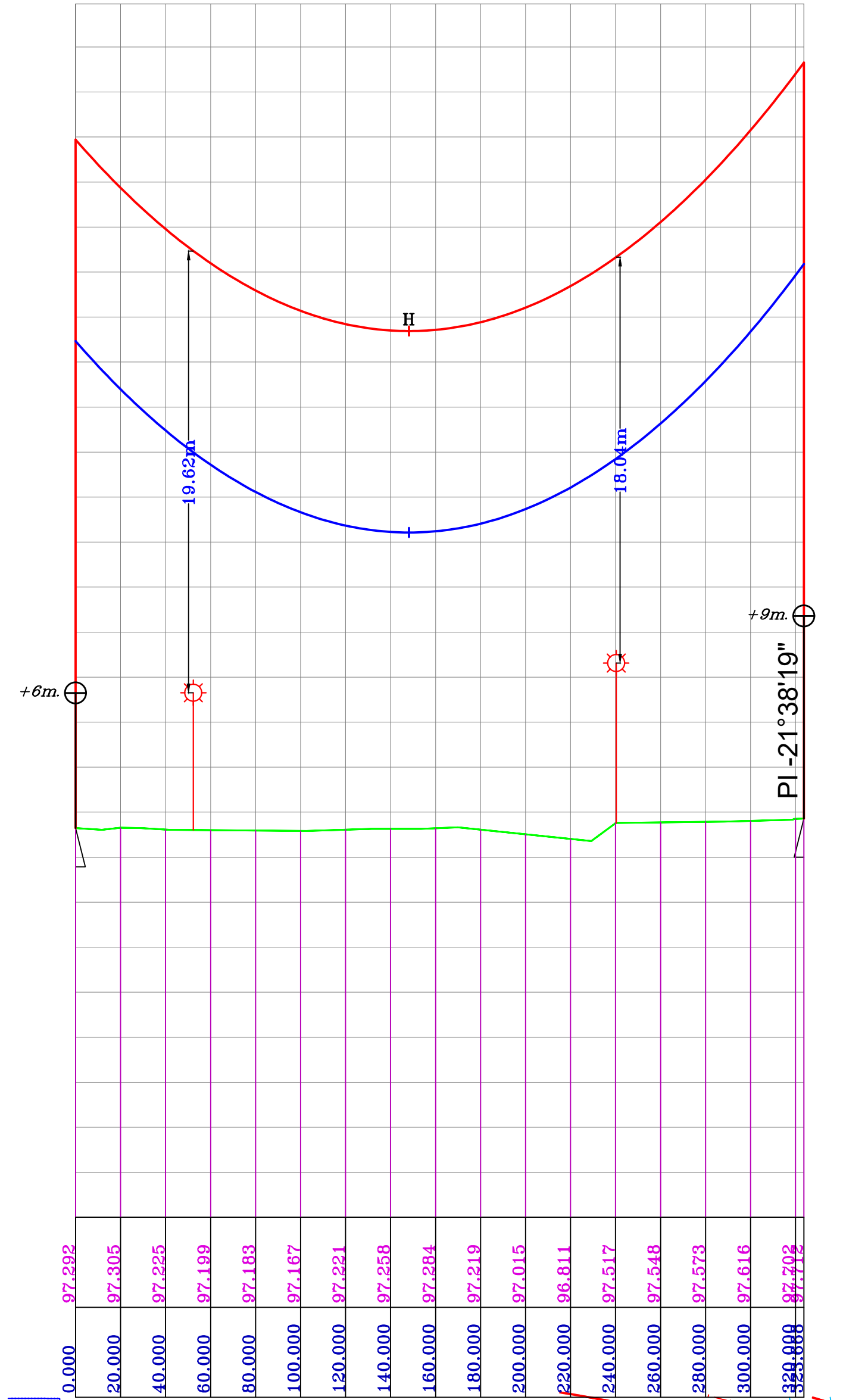
LINER SCALE :-



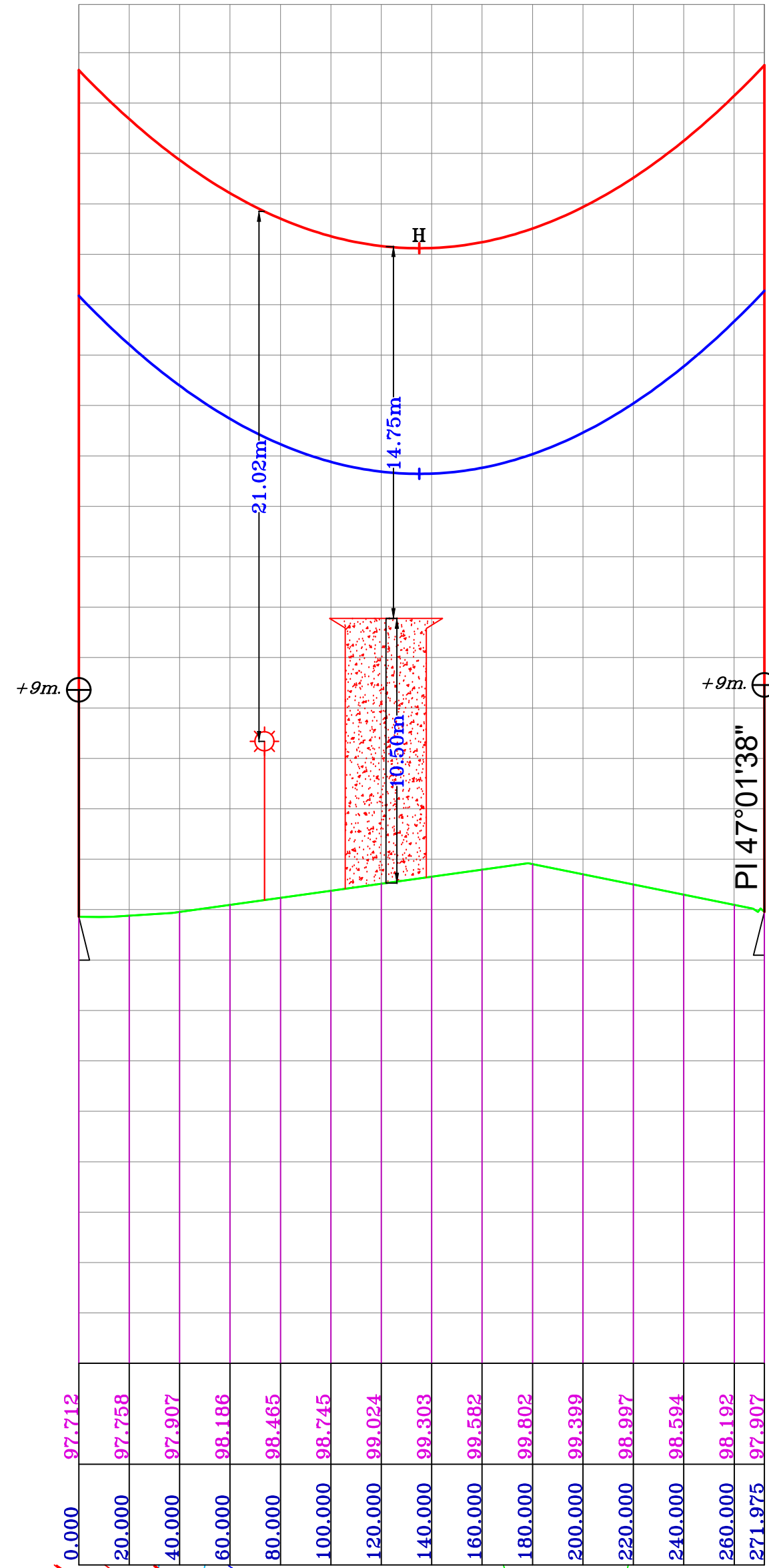
CLIENT:	POWER GRID CORPORATION OF INDIA LIMITED (A Government of India Enterprise)		
PROJECT TITLE :	Route alignment and detailed survey in connection with shifting of 400KV D/C Silchar-Melriat Tr. line from loc no. 121 to 127 for construction of four lane NH road construction by NHIDCL		
Surveyed By:-	NORTH LINE Hooghly, West Bengal, Pin - 712138		
DRAWING TITLE :-	PROFILE DRAWING FOR 400KV D/C SILCHAR-MELRIAT TRANSMISSION LINE FROM LOC NO. 121 TO 127		
Work Order No.			
DRAWN BY	SUBMITTED BY	CHECKED BY	VER- 1cm=2m HOR-1cm=20m
			DATE- 06-04-2023
M/S - NORTH LINE			DRAWING NO
CHECKED BY	RECOMMENDED BY	APPROVED BY	PGCL/Silchar/NH/400/904
			SHEET NO 1/1
			REV 0
POWER GRID CORPORATION OF INDIA LIMITED			REV



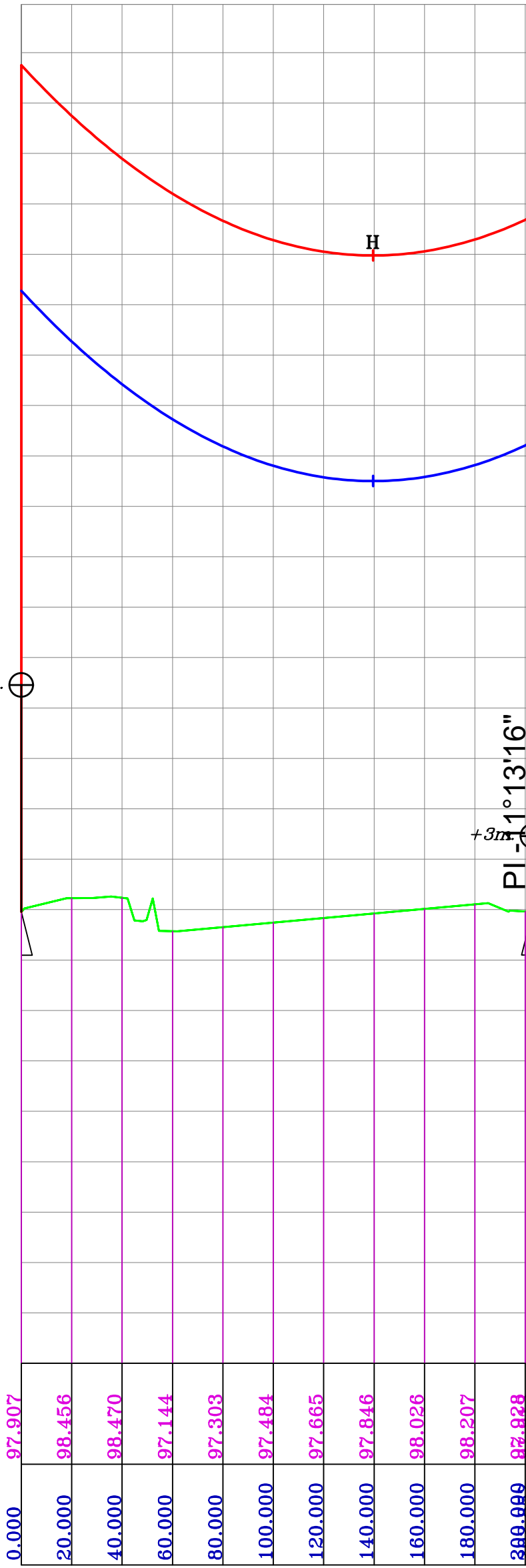
Tower No-121
DC+0
10°27'53"RT



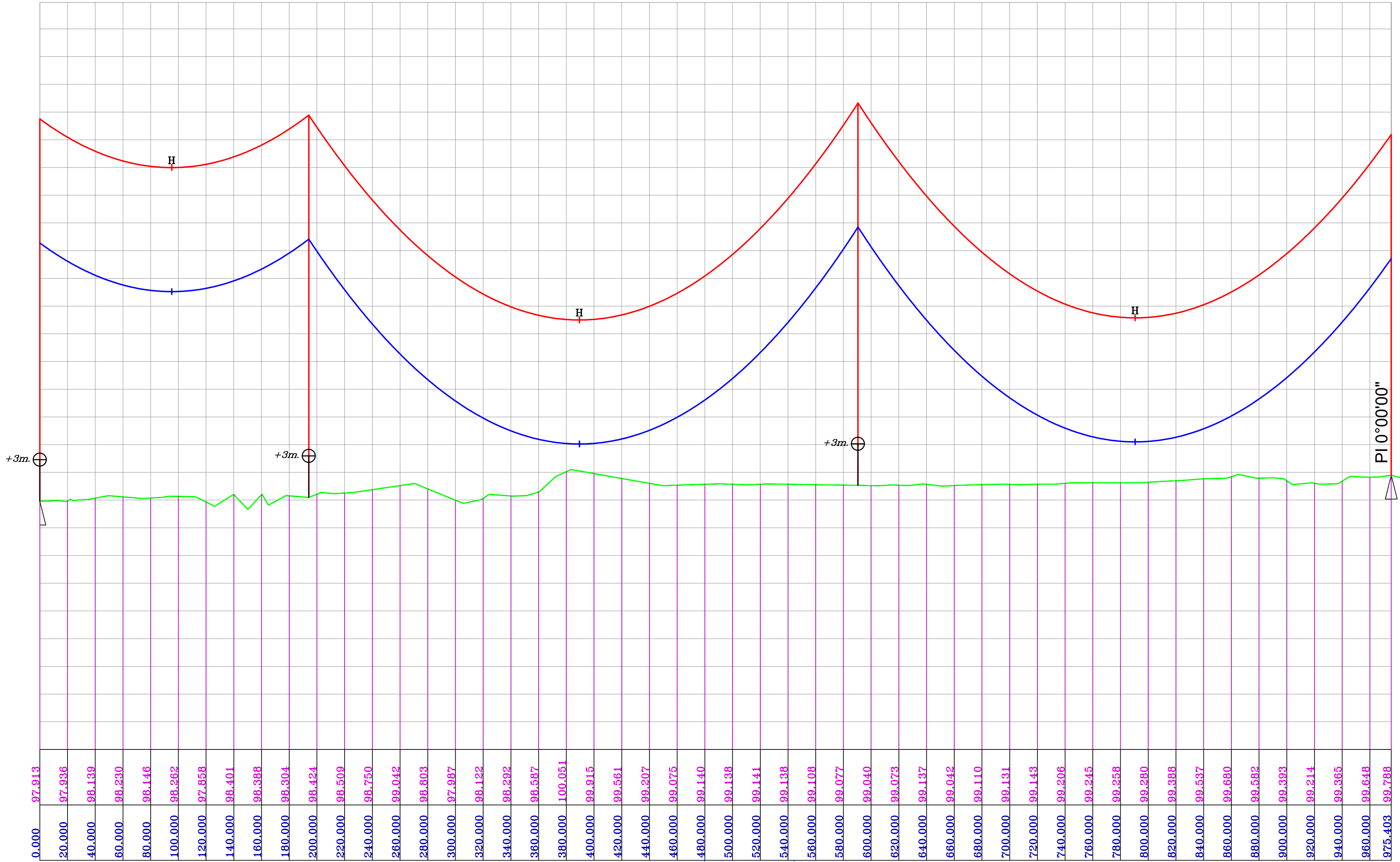
Tower No-122
DC+6
Ex. Angle: 20°6'29"RT
Prop. Angle: 13°20'28"RT



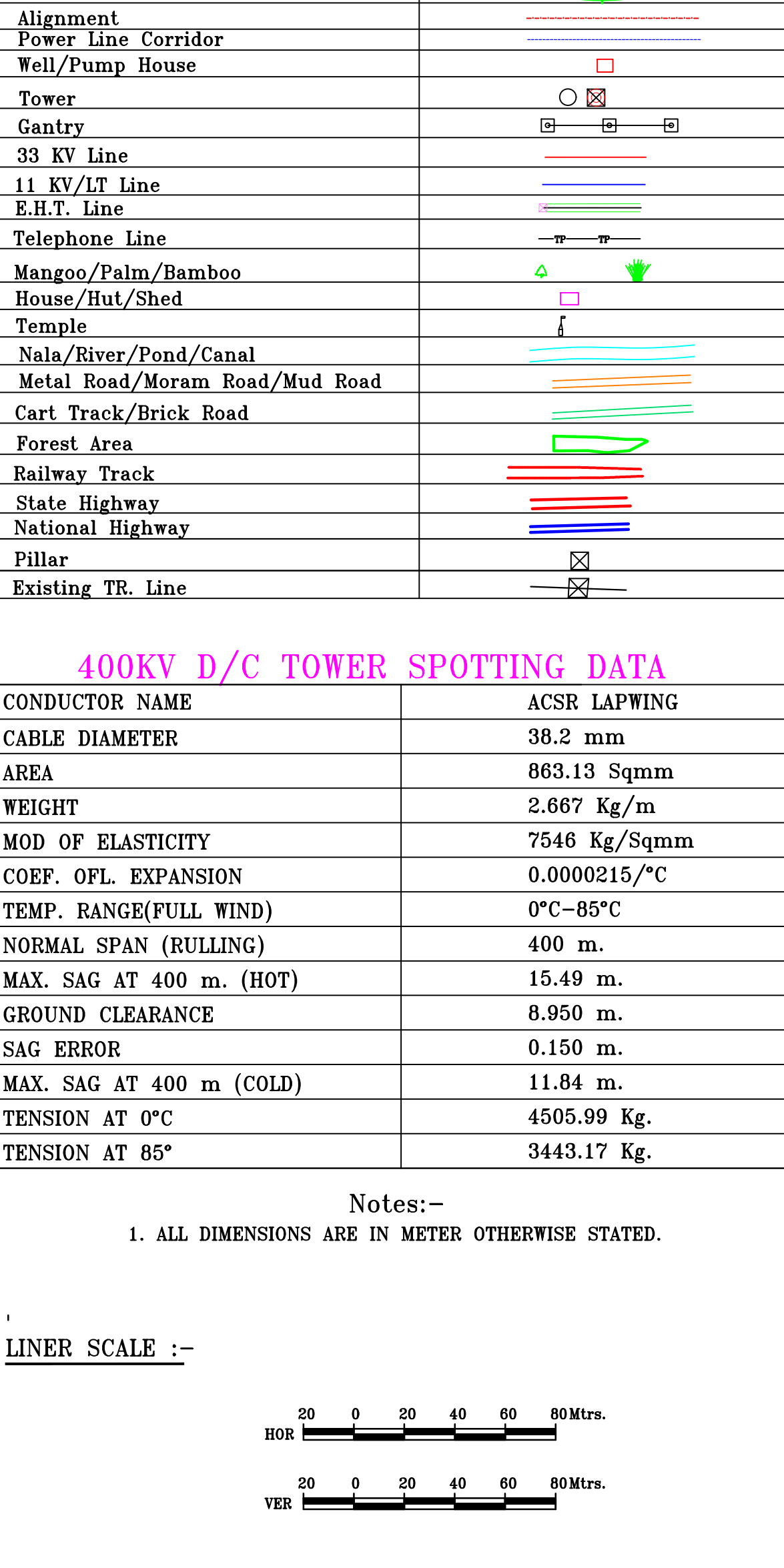
Pro. AP-1
Pro. Angle-47°1'38"LT
DD+9



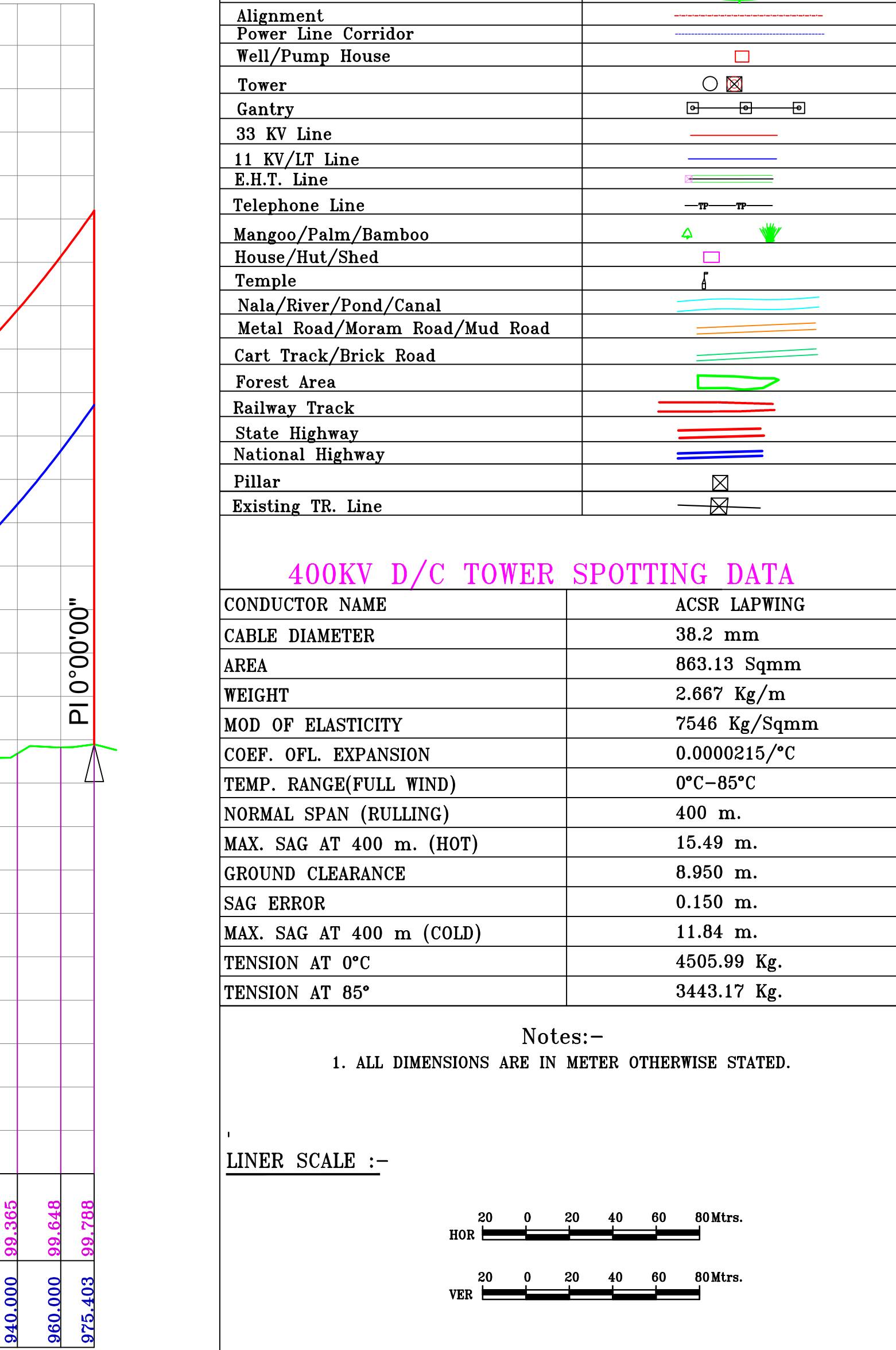
Pro. AP-2
Pro. Angle-47°1'38"RT
DD+9



Tower No-125
DA+3



Tower No-126
DA+3



Tower No-127
DB+0
13°3'37"LT

TOWER NO :		Tower No-63
TOWER TYPE :		OA+S
SUM OF ADJ.SPAN-M :		601
WEIGHT SPAN-W(HOT) :	151	150
WEIGHT SPAN-W(COLD) :	152	151

WATER NO :		Tower No-65	
WATER TYPE :		QA-6	
M OF ADJ-SPAN-M :		477	
EIGHT SPAN-M(HOT) :	158	82	240
EIGHT SPAN-M(COLD) :	158	83	241

TOWER NO :		Prop.
TOWER TYPE :		AP-2
SUM OF ADJ-SPAN-M :		485
WEIGHT SPAN-M(HOT) :	154	82
WEIGHT SPAN-M(COLD) :	155	82

OWNER NO :		Prop.	
OWNER TYPE :		DD+3	
SUM OF ADJ.SPAN-M :		464	
HEIGHT SPAN-M(HOT) :	126	124	250
HEIGHT SPAN-M(COLD) :	131	124	255

TOWER NO :		Tower No-48
TOWER TYPE :		DA+0
SUM OF ADJ-SPAN-M :		479
WEIGHT SPAN-M(HOT) :	76	149
WEIGHT SPAN-M(COLD) :	71	150

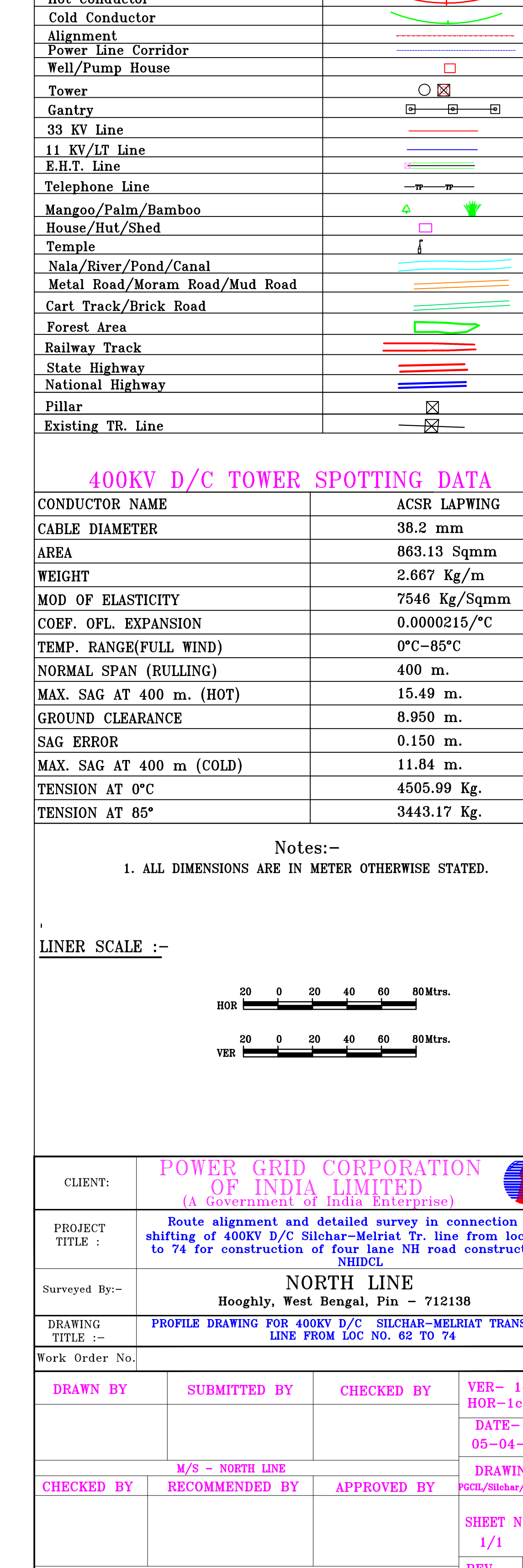
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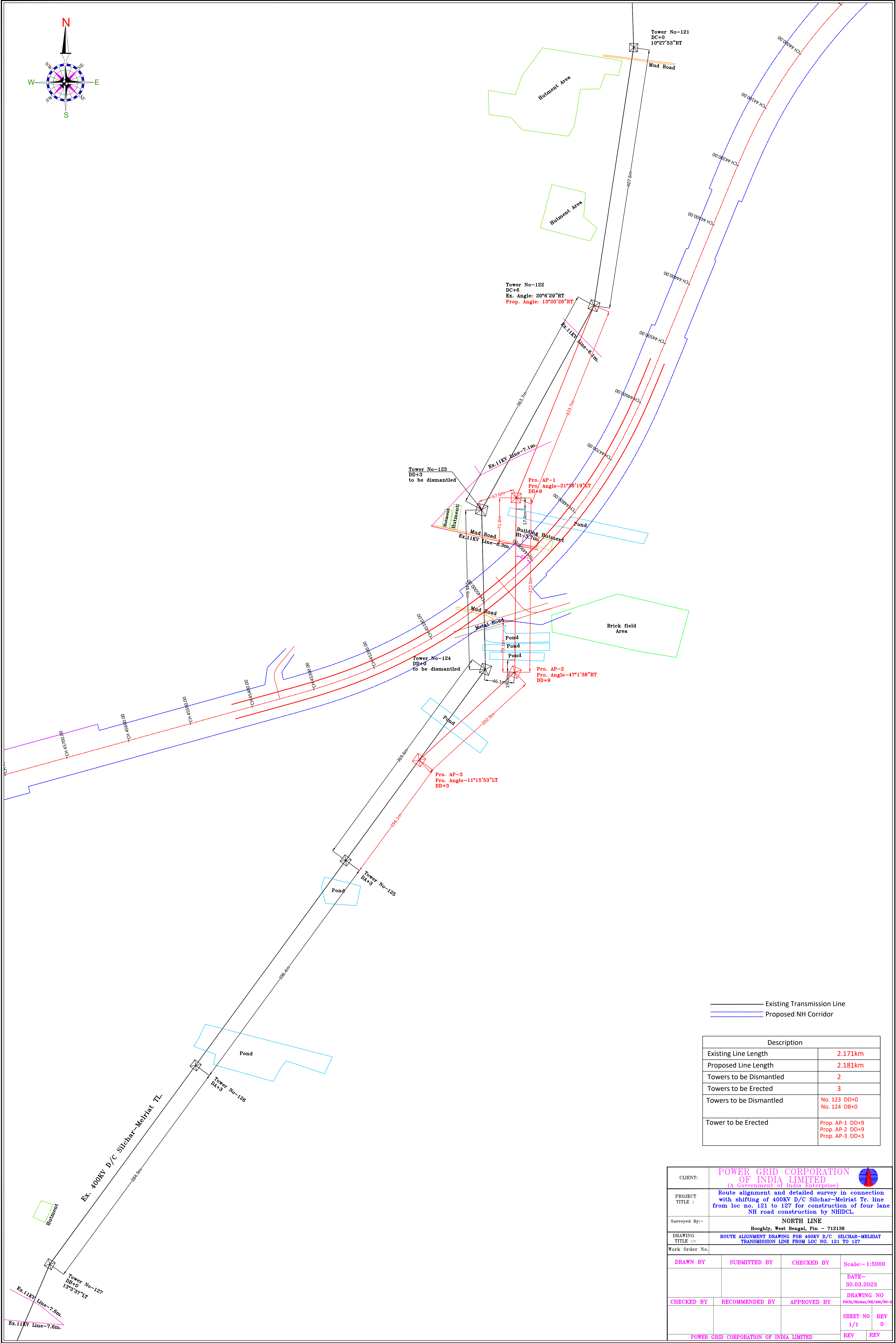
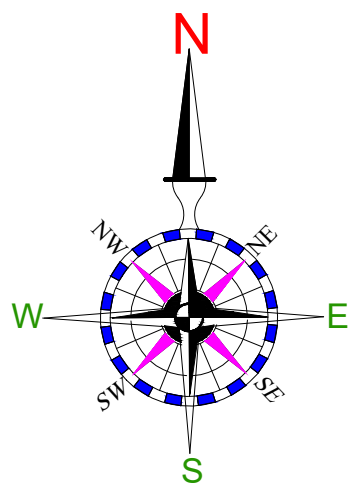
top. p.01	
(D+3)	
409	
79	296
79	296

344
345

NO :		Tower No. 74	
TYPE :		DD+0	
ADJ-SPAN-M :		238	
SPAN-M(HOT) :	200		
SPAN-M(COLD) :	200		

LEGENDS

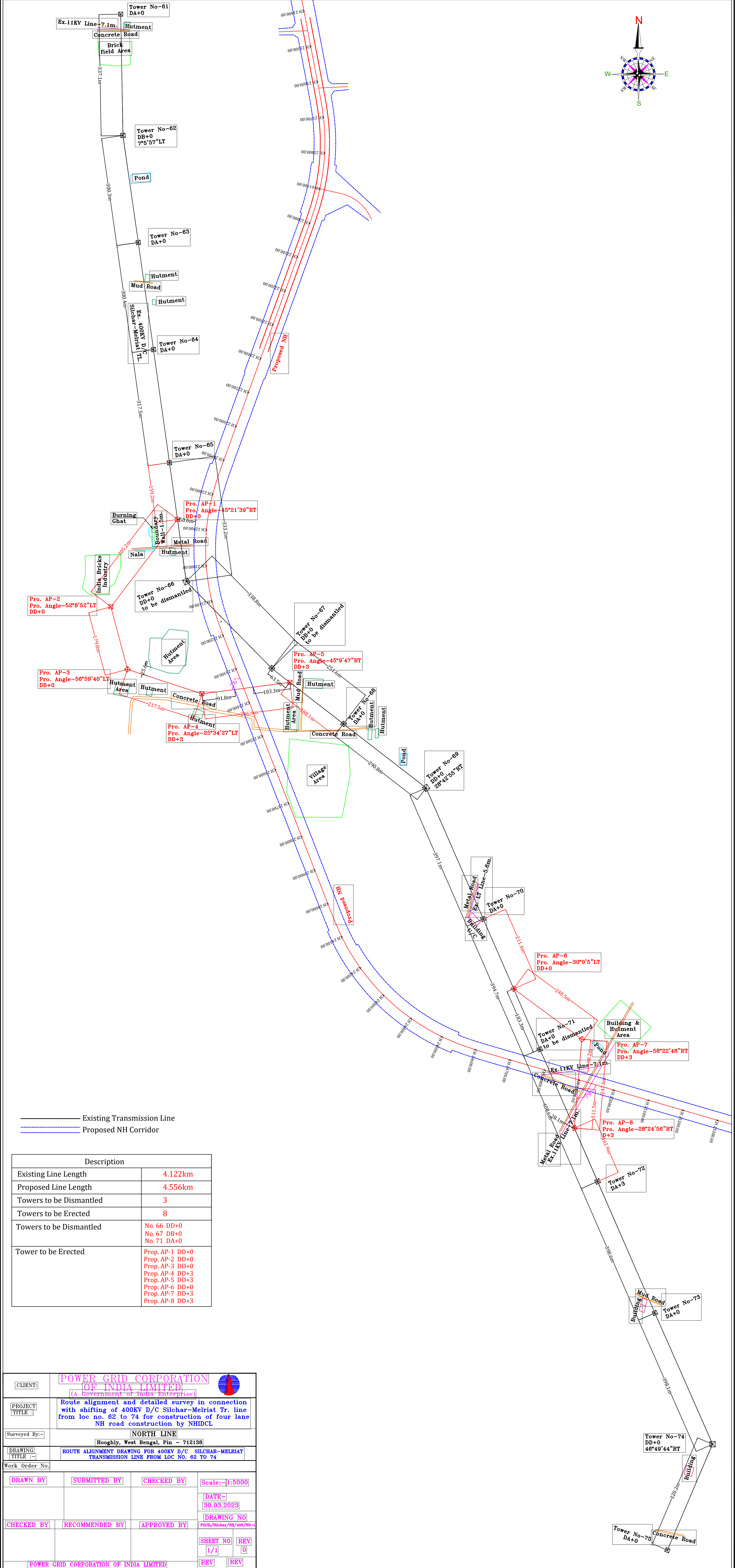




Existing Transmission Line
Proposed NH Corridor

Description	
Existing Line Length	2.171km
Proposed Line Length	2.181km
Towers to be Dismantled	2
Towers to be Erected	3
Towers to be Dismantled	No. 123 DD+0 No. 124 DB+0
Tower to be Erected	Prop. AP-1 DD+9 Prop. AP-2 DD+9 Prop. AP-3 DD+3

CLIENT:	POWER GRID CORPORATION OF INDIA LIMITED (A Government of India Enterprise)		
PROJECT TITLE :	Route alignment and detailed survey in connection with shifting of 400KV D/C Silchar-Melriat Tr. line from loc no. 121 to 127 for construction of four lane NH road construction by NHIDCL.		
Surveyed By:-	NORTH LINE Hooghly, West Bengal, Pin - 712138		
DRAWING TITLE :-	ROUTE ALIGNMENT DRAWING FOR 400KV D/C SILCHAR-MELRIAT TRANSMISSION LINE FROM LOC NO. 121 TO 127		
Work Order No.			
DRAWN BY	SUBMITTED BY	CHECKED BY	Scale:- 1:5000
			DATE:- 30.03.2023
CHECKED BY	RECOMMENDED BY	APPROVED BY	DRAWING NO PGCL/Silchar/NH/400/20-2
			SHEET NO 1/1
POWER GRID CORPORATION OF INDIA LIMITED			REV 0



Existing Transmission Line
Proposed NH Corridor

Description	
Existing Line Length	4.122km
Proposed Line Length	4.556km
Towers to be Dismantled	3
Towers to be Erected	8
Towers to be Dismantled	No. 66 DD+0 No. 67 DB+0 No. 71 DA+0
Tower to be Erected	Prop. AP-1 DD+0 Prop. AP-2 DD+0 Prop. AP-3 DD+0 Prop. AP-4 DD+3 Prop. AP-5 DD+3 Prop. AP-6 DD+0 Prop. AP-7 DD+3 Prop. AP-8 DD+3

CLIENT:	POWER GRID CORPORATION OF INDIA LIMITED (A Government of India Enterprise)			
PROJECT TITLE :-	Route alignment and detailed survey in connection with shifting of 400KV D/C Silchar-Melriat Tr. line from loc no. 62 to 74 for construction of four lane NH road construction by NHIDCL			
Surveyed By:-	NORTH LINE Hooghly, West Bengal, Pin - 712138			
DRAWING TITLE :-	ROUTE ALIGNMENT DRAWING FOR 400KV D/C SILCHAR-MELRIAT TRANSMISSION LINE FROM LOC NO. 62 TO 74			
Work Order No.				
DRAWN BY	SUBMITTED BY	CHECKED BY	Scale:- 1:5000	
			DATE:- 30.03.2023	
			DRAWING NO	
CHECKED BY	RECOMMENDED BY	APPROVED BY	PGCIL/Silchar/NH/400/NO-1	
			SHEET NO	
			1/1	
POWER GRID CORPORATION OF INDIA LIMITED			REV	REV

Tower Schedule for shifting of 400KV D/C Silchar-Melriat Tr. line from loc no. 62 to 74 for construction of four lane NH road construction by NHIDCL

SL No	Location No	Deviation Angle	Tower Type	Span (M)	Section Length (M)	Cumulative Length (KM)	Elevation (M)	Sum of Adjacent Span (M)	Wind Span (M)	Weight Span (Hot)			Weight Span (Cold)			GPS Coordinate		Remarks
										Left	Right	Total	Left	Right	Total	Latitude	Longitude	
1	Tower No-62	7°5'57"LT	DB+0			0.000	97.616	300	150	0	149	149	0	149	149	24°42' 17.2665"N	92°49' 38.1082"E	
				300.2														Pond
2	Tower No-63	0	DA+0			0.300	97.897	601	300	151	150	302	152	151	302	24°42' 7.6028"N	92°49' 39.638"E	
				300.4														Hutment, Mud Road
3	Tower No-64	0	DA+0			0.601	97.838	618	309	150	159	309	150	159	309	24°41' 57.9354"N	92°49' 41.1542"E	
				317.5														
4	Tower No-65	0	DA+0			0.918	97.765	477	238	158	82	240	158	83	241	24°41' 47.7174"N	92°49' 42.7498"E	
				159.3														
5	Prop. AP-1	45°21'39"RT	DD+0		1077.4	1.077	97.472	465	232	77	151	228	77	151	227	24°41' 42.5926"N	92°49' 43.5497"E	
				305.2														Boundary Wall, Nala, Metal Road
6	Prop. AP-2	52°8'52"LT	DD+0		305.2	1.383	97.836	485	243	154	89	243	155	89	244	24°41' 34.6925"N	92°49' 36.9754"E	
				179.8														
7	Prop. AP-3	56°59'40"LT	DD+0		179.8	1.562	97.926	397	199	91	91	182	91	86	177	24°41' 29.0439"N	92°49' 38.6209"E	
				217.5														
8	Prop. AP-4	25°34'27"LT	DD+3		217.5	1.780	97.835	464	232	126	124	250	131	124	255	24°41' 26.8463"N	92°49' 45.9787"E	
				246.6														Proposed NH-306
9	Prop. AP-5	45°9'47"RT	DD+3		246.6	2.026	97.742	435	217	123	112	235	123	117	240	24°41' 27.8891"N	92°49' 54.68"E	
				188.0														Mud Road,
10	Tower No-68	0	DA+0			2.215	98.145	479	239	76	149	225	71	150	221	24°41' 24.1511"N	92°49' 59.9775"E	
				290.8														Hutment, Pond
11	Tower No-69	28°42'55"RT	DD+0		478.9	2.505	97.324	688	344	142	196	338	141	195	336	24°41' 18.3705"N	92°50' 8.1661"E	
				397.0														Metal Road, TL Line

Tower Schedule for shifting of 400KV D/C Silchar-Melriat Tr. line from loc no. 62 to 74 for construction of four lane NH road construction by NHIDCL

SL No	Location No	Deviation Angle	Tower Type	Span (M)	Section Length (M)	Cumulative Length (KM)	Elevation (M)	Sum of Adjacent Span (M)	Wind Span (M)	Weight Span (Hot)			Weight Span (Cold)			GPS Coordinate		Remarks
										Left	Right	Total	Left	Right	Total	Latitude	Longitude	
12	Tower No-70	0	DA+0			2.902	98.145	609	304	201	106	307	202	106	308	24°41' 6.5412"N	92°50' 13.8261"E	
				211.5														
13	Prop. AP-06	30°0'5"LT	DD+0		608.5	3.114	98.114	447	224	106	99	205	105	93	199	24°41' 0.2405"N	92°50' 16.8348"E	
				235.7														
14	Prop. AP-07	58°22'48"RT	DD+3		235.7	3.350	98.539	483	242	137	121	258	142	120	263	24°40' 55.6926"N	92°50' 23.5836"E	
				247.6														11kv Line, Proposed NH-306, Concrete Road, Metal Roaf, 11 kv line
15	Prop. AP-08	28°24'56"RT	DD+3		247.6	3.597	99.068	409	205	127	79	206	127	79	206	24°40' 47.6708"N	92°50' 22.848"E	
				161.9														
16	Tower No. 72	0	DA+3			3.759	99.283	560	280	83	209	292	83	212	295	24°40' 42.847"N	92°50' 25.1571"E	
				398.6														Mud Road, Building
17	Tower No. 73	0	DA+0			4.158	99.294	797	398	190	198	388	187	198	385	24°40' 30.9707"N	92°50' 30.8305"E	
				398.2														
18	Tower No. 74	46°49'44"RT	DD+0		958.6	4.556	99.56	398	199	200			200			24°40' 19.1286"N	92°50' 36.551"E	

Tower Schedule for shifting of 400KV D/C Silchar-Melriat Tr. line from loc no. 121 to 127 for construction of four lane NH road construction by NHIDCL

SL No	Location No	Deviation Angle	Tower Type	Span (M)	Section Length (M)	Cumulative Length (KM)	Elevation (M)	Sum of Adjacent Span (M)	Wind Span (M)	Weight Span (Hot)			Weight Span (Cold)			GPS Coordinate		Remarks
										Left	Right	Total	Left	Right	Total	Latitude	Longitude	
1	Ex. Tower No.121	10°27'53"RT	DC+0			0.000	97.175	408	204	0	184	184	0	178	178	24°31'51.6419"N	92°48'58.7222"E	
				407.6														
2	Ex. Tower No.122	Ex. Angle: 20°6'29"RT Prop. Angle: 13°20'28"RT	DC+6		407.6	0.408	97.292	731	366	223	148	371	229	144	373	24°31'38.5407"N	92°48'56.5444"E	
				323.7														2 Nos 11 kv line
3	Prop. AP-1	21°38'19"LT	DD+9		323.7	0.731	97.712	596	298	175	135	311	180	135	314	24°31'28.7825"N	92°48'52.2375"E	
				272.0														4 Nos. Pond, Proposed NH-306
4	Prop. AP-2	47°1'38"RT	DD+9		272.0	1.003	97.907	475	237	137	140	276	137	151	289	24°31'19.9397"N	92°48'52.1786"E	
				202.9														Pond
5	Prop. AP-3	11°15'53"LT	DD+3		202.9	1.206	97.913	397	198	63	95	159	52	95	146	24°31'15.4732"N	92°48'46.874"E	
				194.1														
6	Ex. Tower No. 125	0	DA+3		194.1	1.400	98.188	591	295	99	195	294	99	194	294	24°31'10.3743"N	92°48'42.8083"E	
				396.4														2 Nos Pond
7	Ex. Tower No. 126	0	DA+3		396.4	1.797	99.061	781	391	201	200	401	202	202	404	24°30'59.9659"N	92°48'34.5001"E	
				384.9														
8	Ex. Tower No. 127	13°3'37"LT	DB+0		384.9	2.181	99.788	385	192	185			182			24°30'49.8658"N	92°48'26.4243"E	

Tower Schedule for 400KV D/C Silchar-Imphal Transmission Line From Loc.~64 to Loc.~67.

SL No	Location No	Deviation Angle	Tower Type	Span (M)	Section Length (M)	Cumulative Length (KM)	Elevation (M)	Sum of Adjacent Span (M)	Wind Span (M)	Weight Span (Hot)			Weight Span (Cold)			GPS Coordinate		Remarks
										Left	Right	Total	Left	Right	Total	Latitude	Longitude	
1	Existing Tower No.-64	Ex.Angle:35°48'51"LT Pro.Angle:29°0'39"LT	DD+6			0.000	97.041	361	181	0	188	188	0	191	191	24°43'3.83"N	92°49'36.35"E	
				361														Pond, LT Line, 11KV Line
2	Proposed Tower No.-65	45°48'19"LT	DD+3		361	0.361	97.877	581	290	173	93	265	170	87	258	24°42'56.10"N	92°49'46.04"E	
				220														11KV Line, LT Line, 33KV Line, NH-54, Proposed NH-37 & NH-306
3	Proposed Tower No.-66	5°06'02"LT	DD+6		220	0.581	97.840	635	318	127	225	352	133	230	363	24°42'56.66"N	92°49'53.83"E	
				415														Pond, LT Line, Mud Road, Low Land
4	Existing Tower No.-67	Ex.Angle:38°38'41"RT Pro.Angle:44°19'6"RT	DD+0		415	0.996	98.381	415	208	191			185			24°42'58.95"N	92°50'8.39"E	