

TOWER NO	:	Ex.Tower-14/0
TOWER TYPE	:	A+6
SUM OF ADJ.SPAN-M	:	321
WEIGHT SPAN-M(HOT)	:	0 191 191
WEIGHT SPAN-M(COLD)	:	0 213 213

TOWER NO	:	Ex.Tower-15/0
TOWER TYPE	:	D+0
SUM OF ADJ.SPAN-M	:	617
WEIGHT SPAN-M(HOT)	:	130 96 226
WEIGHT SPAN-M(COLD)	:	108 99 167

TOWER NO	:	Pro.Tower-16
TOWER TYPE	:	D+9
SUM OF ADJ.SPAN-M	:	526
WEIGHT SPAN-M(HOT)	:	200 109 309
WEIGHT SPAN-M(COLD)	:	237 105 342

TOWER NO	:	Pro.Tower-16A
TOWER TYPE	:	D+9
SUM OF ADJ.SPAN-M	:	400
WEIGHT SPAN-M(HOT)	:	121 155 276
WEIGHT SPAN-M(COLD)	:	125 205 330

TOWER NO	:	Pro.Tower-17
TOWER TYPE	:	D+3
SUM OF ADJ.SPAN-M	:	451
WEIGHT SPAN-M(HOT)	:	15 93 109
WEIGHT SPAN-M(COLD)	:	-35 60 25

TOWER NO	:	Ex.Tower-18/0
TOWER TYPE	:	D+9
SUM OF ADJ.SPAN-M	:	589
WEIGHT SPAN-M(HOT)	:	188 218 406
WEIGHT SPAN-M(COLD)	:	221 264 485

TOWER NO	:	Ex.Tower-19/0
TOWER TYPE	:	B+0
SUM OF ADJ.SPAN-M	:	308
WEIGHT SPAN-M(HOT)	:	90
WEIGHT SPAN-M(COLD)	:	44

321m

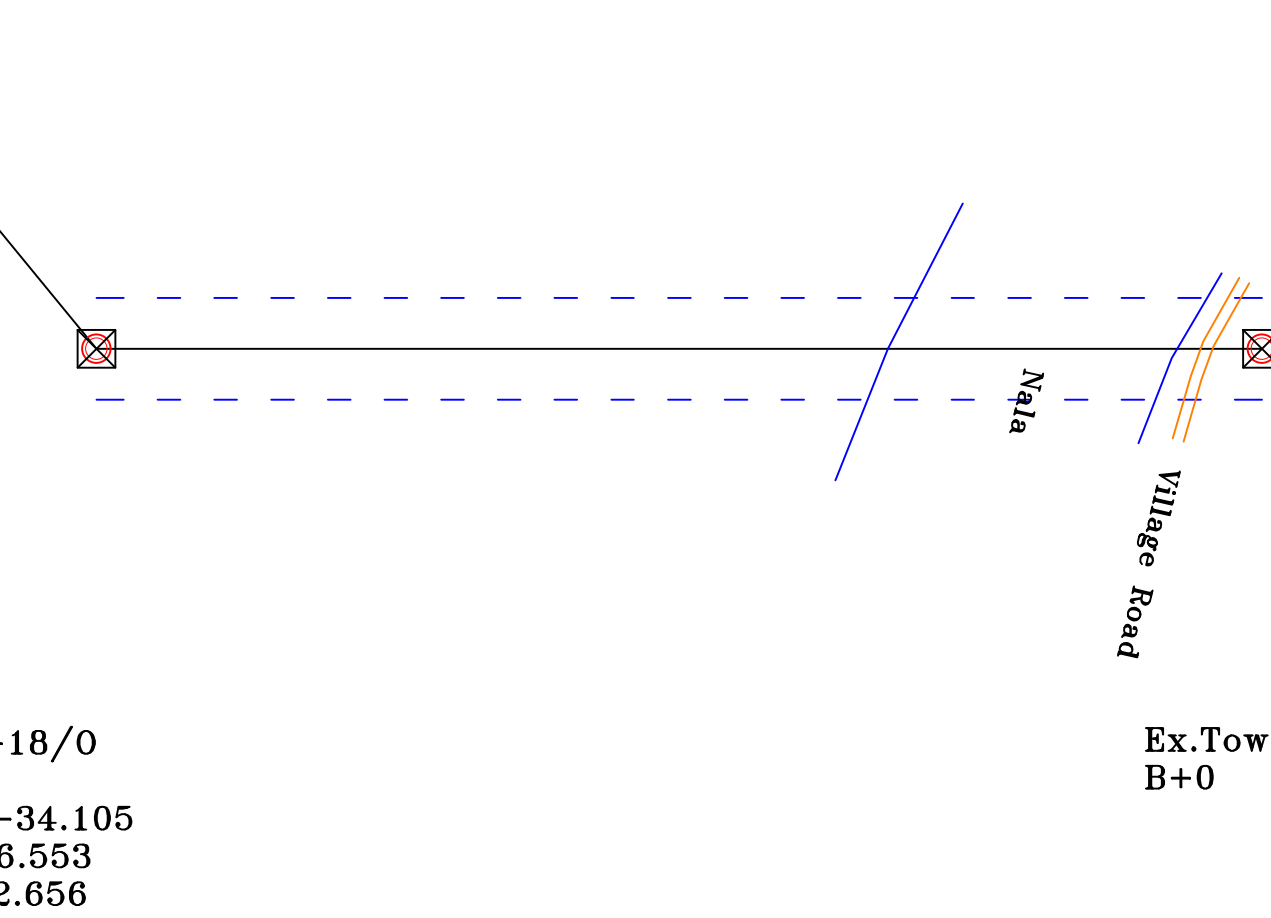
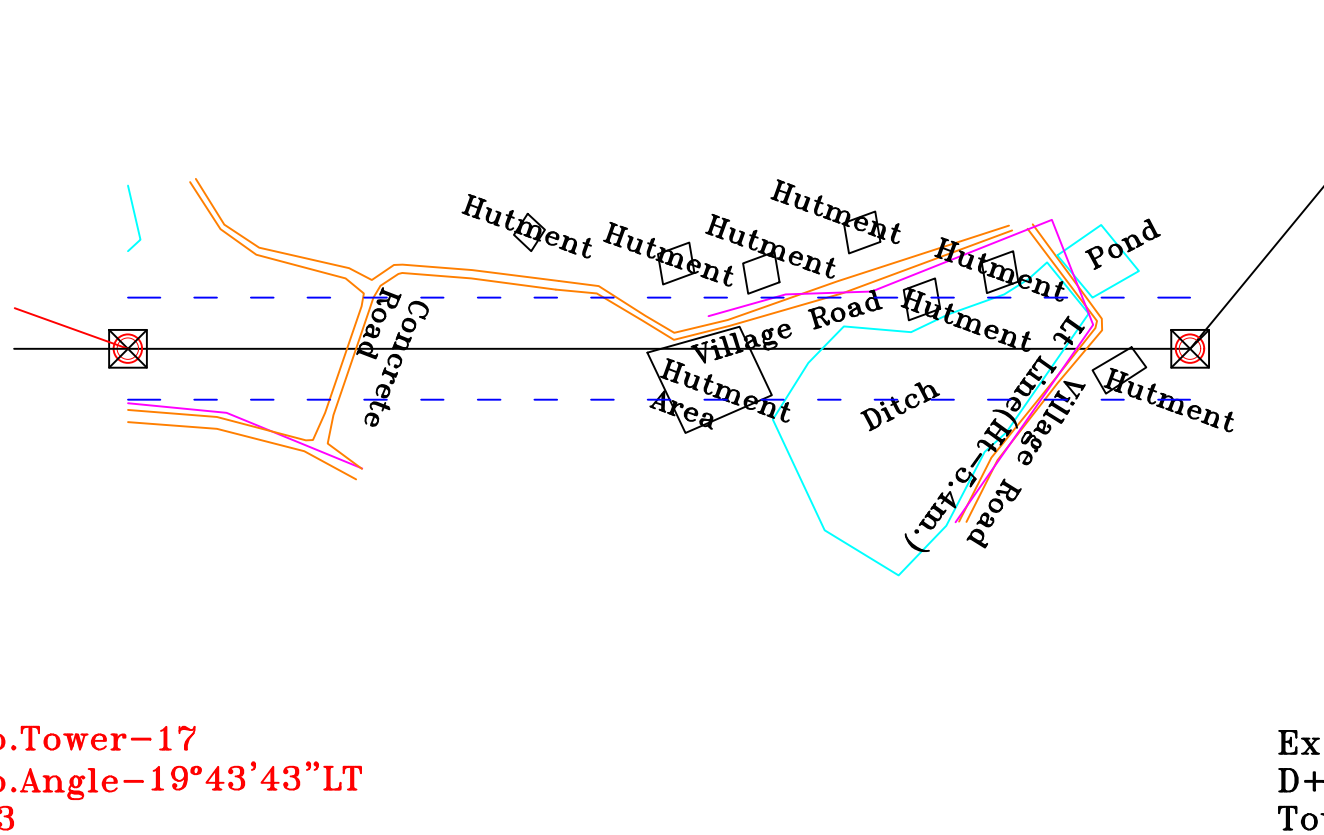
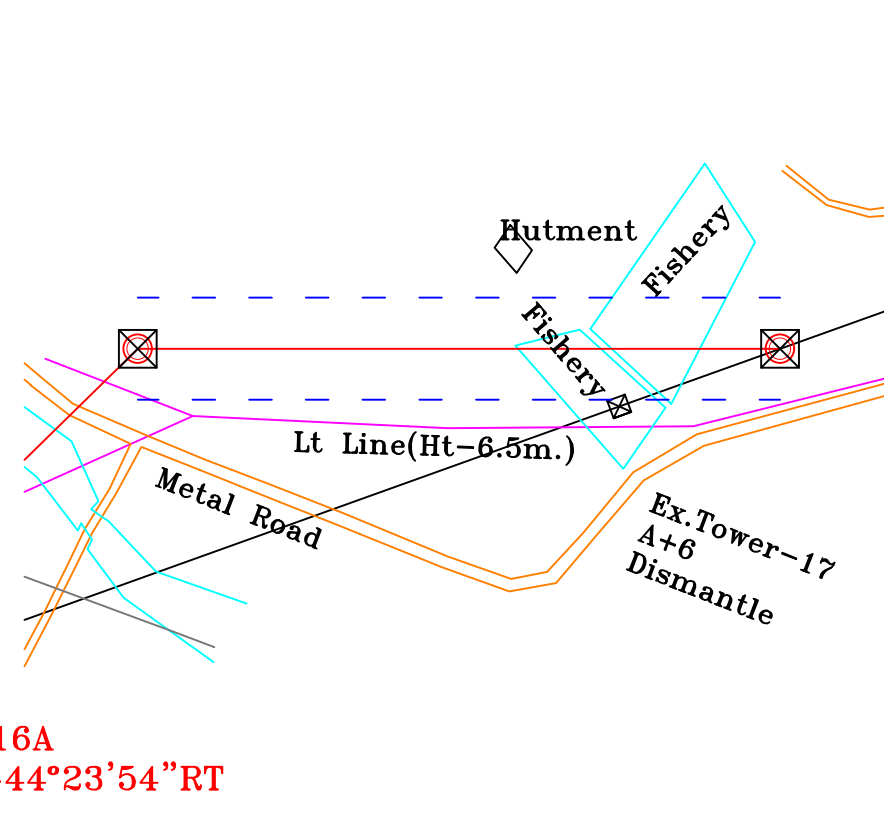
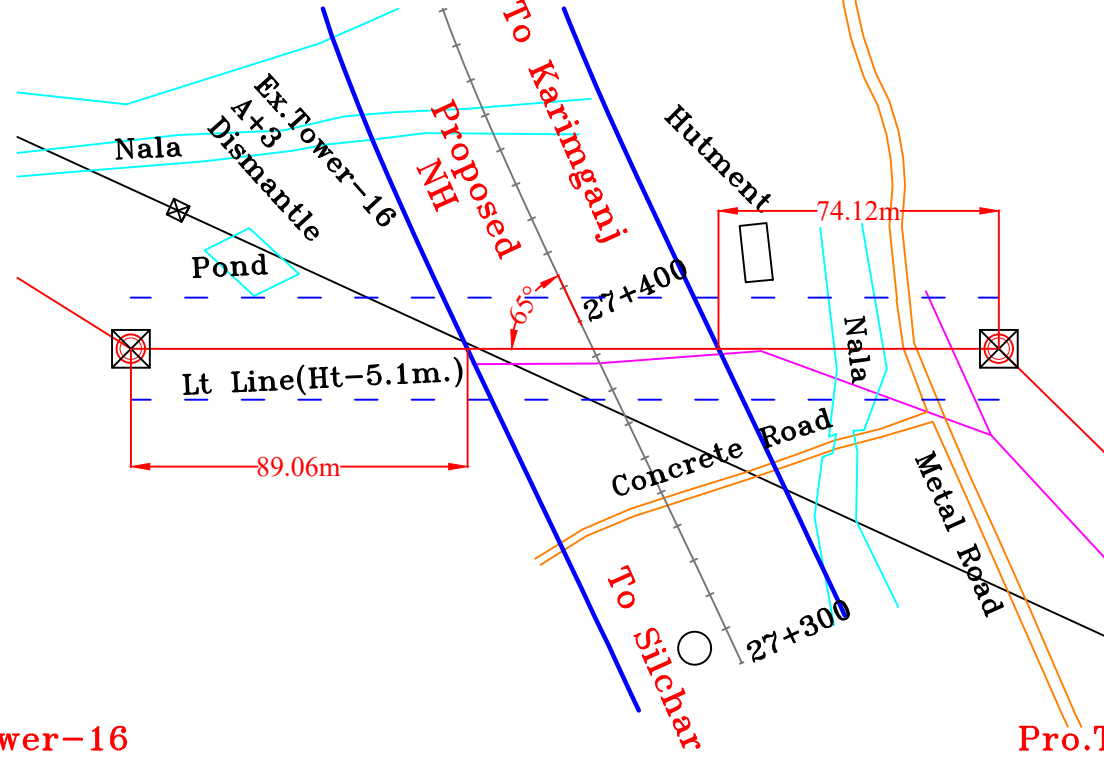
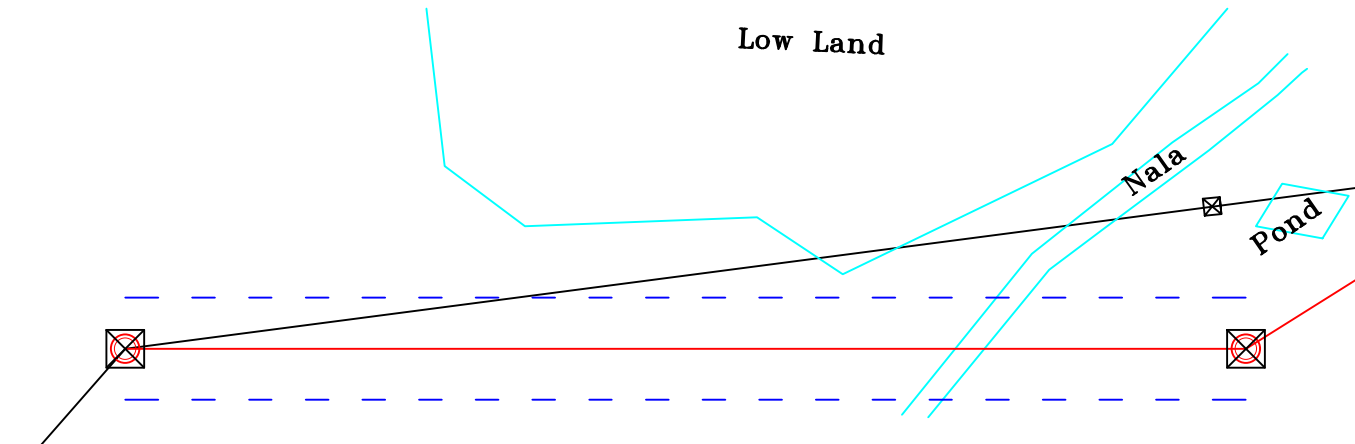
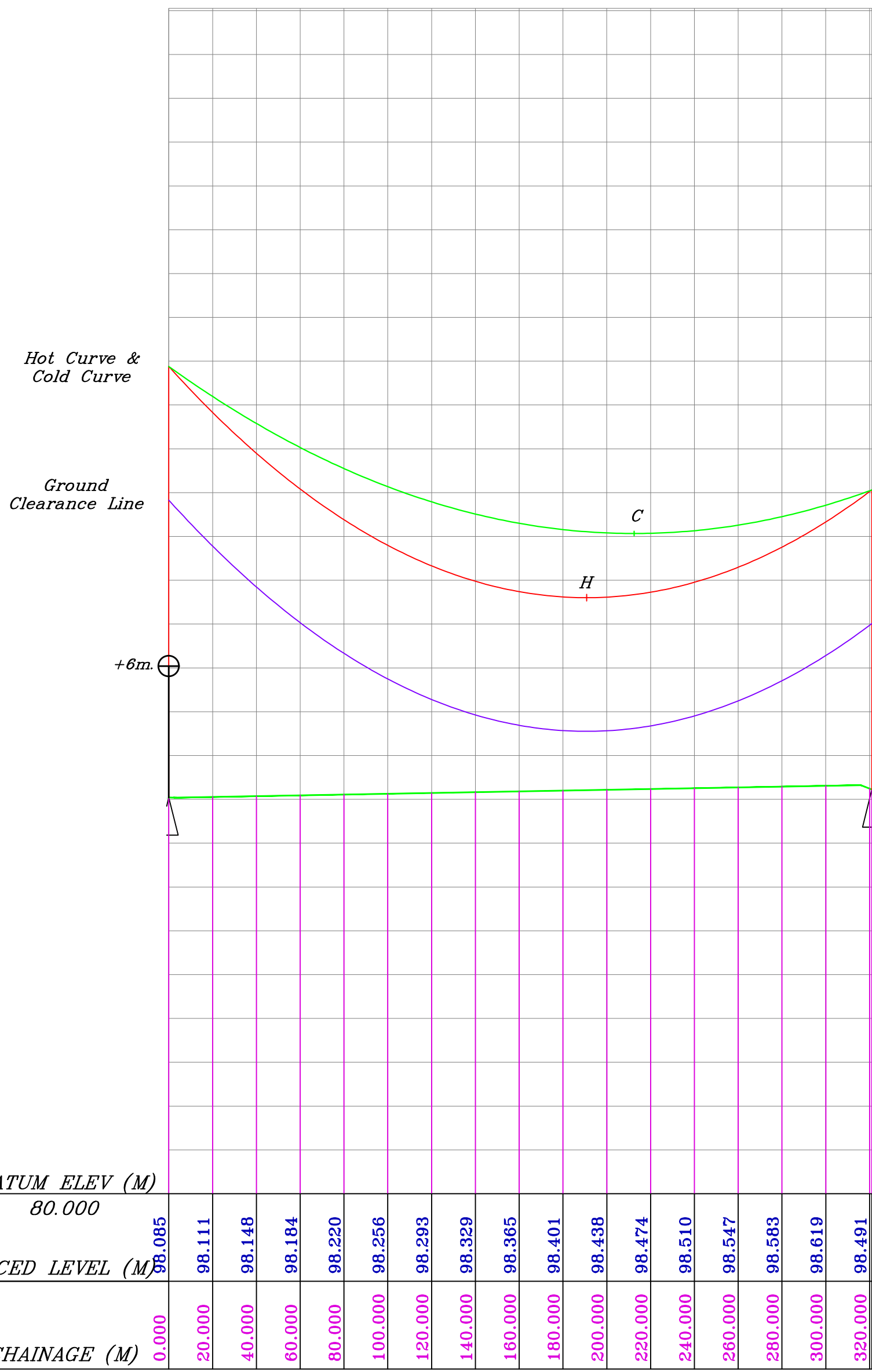
296m

230m

170m

281m

308m



LEGENDS

Ground Level	
Ground Clearance	
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	

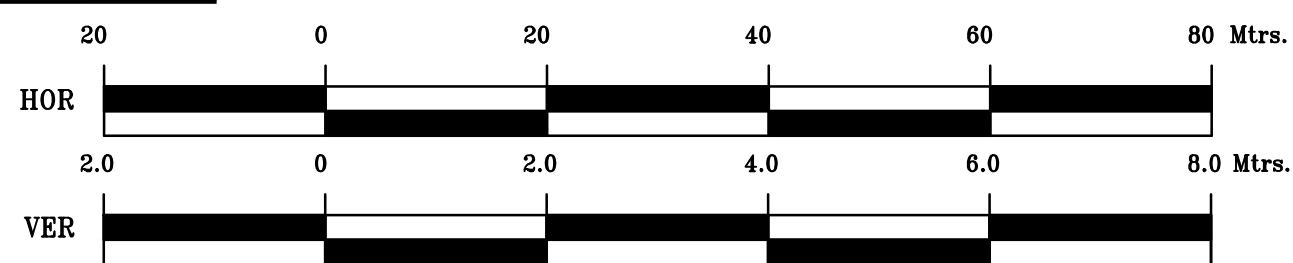
TOWER SPOTTING DATA

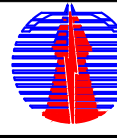
CONDUCTOR NAME	PANTHER
UTS	9144 Kg
CONDUCTOR DIAMETER	21.00 mm
AREA	2.615 Sqcm
WEIGHT	0.974 Kg/m
MOD OF ELASTICITY	8158.00 Kg/Sqmm
COEF. OFL. EXPANSION	1.78E-05/°C
WIND PRESSURE ON CONDUCTOR	211.7422 Kg./Sq.m.
TEMP. RANGE(FULL WIND)	0°C-32°-85°C
NORMAL SPAN (RULLING)	320 m.
MAX. SAG AT 320 m. (HOT)	7.056 m.
GROUND CLEARANCE	6.10 m.
SAG ERROR	0.000 m.
TENSION AT 0°C	2885.66 Kg.
TENSION AT 85°C	1680.07 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 132 KV S/C Badarpur – Khliehriat Transmission line towers for construction of four lane NH road construction by NHIDCL			
Surveyed By:-	NORTH LINE Subhas Pally, Chandannagar, Hooghly, West Bengal, Pin – 712138			
DRAWING TITLE :-	PROFILE DRAWING 132KV D/C Badarpur – Khliehriat Transmission line From Loc. No. 14 to 19			
Work Order No.	NESH/CSM/FY:2021-22/1289/NOA/90		Dt. 06th Sept. 2021	
DRAWN BY	SUBMITTED BY	CHECKED BY	VER- 1cm=2m HOR-1cm=20m	
			DATE- 26.5.2022	
M/S – NORTH LINE			DRAWING NO	
CHECKED BY	RECOMMENDED BY	APPROVED BY	PGCL/Badarpur/TL/NO-1	
			SHEET NO 1/1	REV 1
POWER GRID CORPORATION OF INDIA LIMITED			REV	REV

Tower Schedule for shifting of 132 KV S/C Badarpur - Khliehriat Transmission line towers 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	Northing	Easting	
1	Ex.Tower-14/0	0	A+6			0.000	98.085	321	161	T	191	T+191	T	213	T+213	24°54' 3.8564"N	92°34' 53.8834"E	
				321														
2	Ex.Tower-15/0	Ex. Angle:- 41°16'52"RT Pro. Angle:- 48°44'4"RT	D+0		321	0.321	98.449	617	309	130	96	226	108	59	167	24°54' 14.2076"N	92°34' 55.3645"E	
				296														Nala
3	Pro.Tower-16	32°5'26"LT	D+9		296	0.617	98.349	526	263	200	109	309	237	105	342	24°54' 19.5718"N	92°35' 4.1444"E	
				230														Proposed NH, LT Line, Nala, Metal Road
4	Pro.Tower-16A	44°23'54"RT	D+9		230	0.847	99.135	400	200	121	155	276	125	205	330	24°54' 26.3893"N	92°35' 7.4831"E	
				170														2 Nos Fishery
5	Pro.Tower-17	19°43'43"LT	D+3		170	1.017	98.254	451	226	15	93	109	-35	60	25	24°54' 28.4164"N	92°35' 13.1195"E	
				281														Concrete Road, Hutment Area, Village Road, LT Line
6	Ex.Tower-18/0	50°32'10"LT	D+9		281	1.298	99.929	589	295	188	218	406	221	264	485	24°54' 34.4395"N	92°35' 20.6506"E	
				308														Nala, Village Road
7	Ex.Tower-19/0	0	B+0		308	1.606	97.499	308	154	90	T	T	44	T	T	24°54' 44.4586"N	92°35' 20.3084"E	