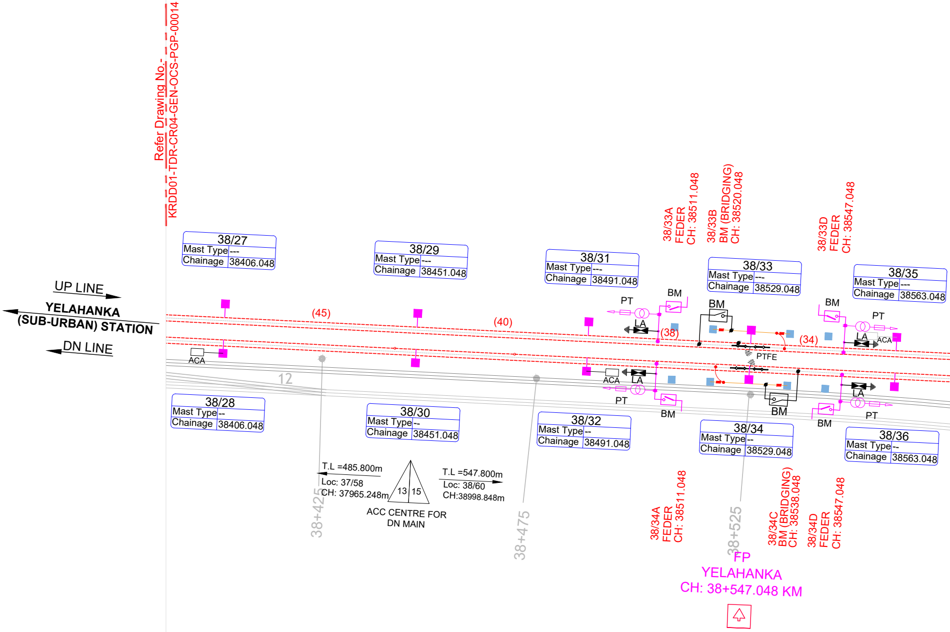
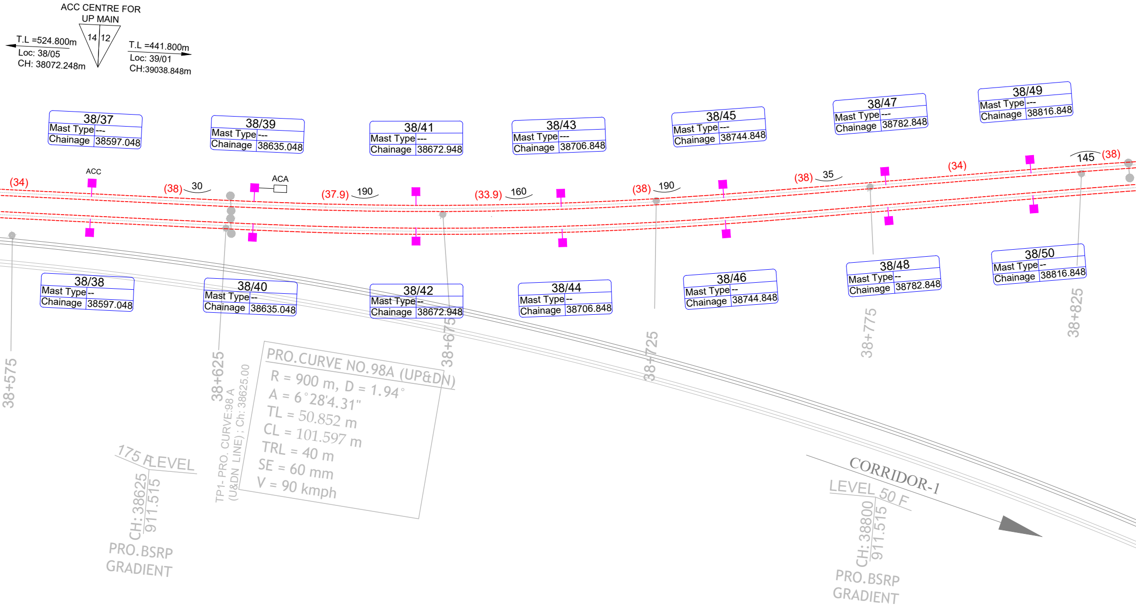
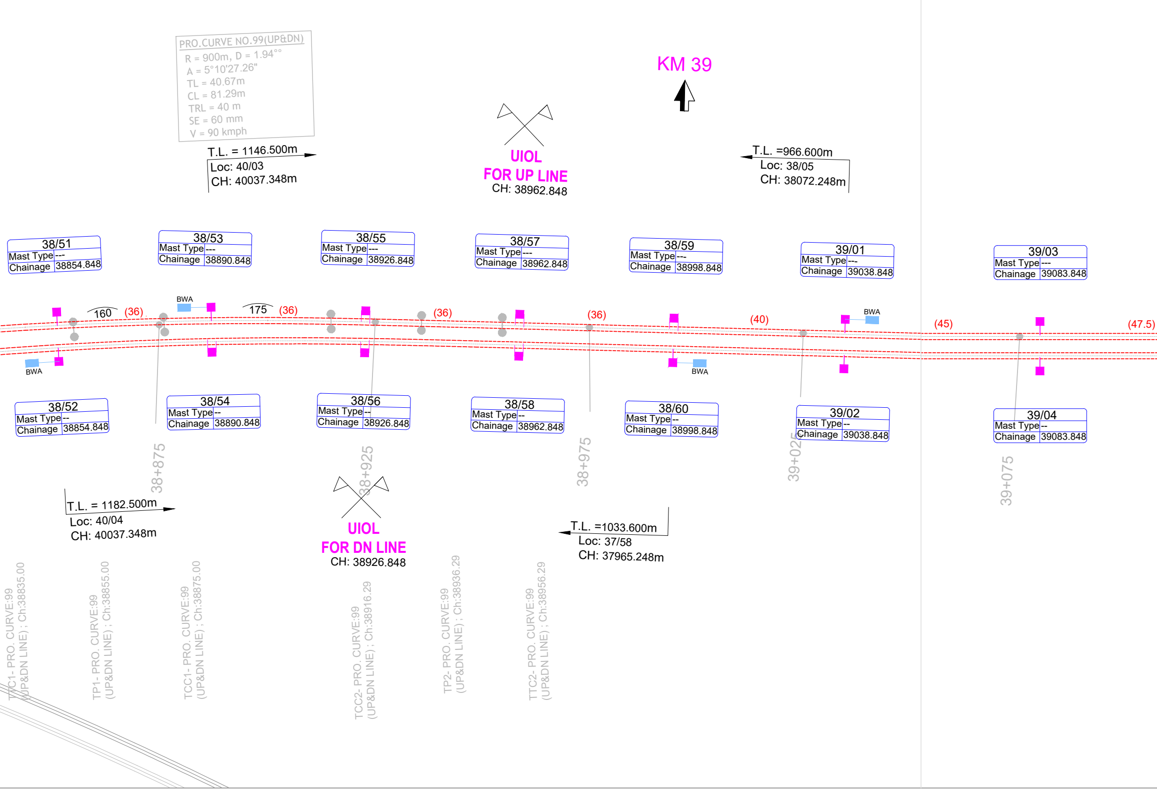
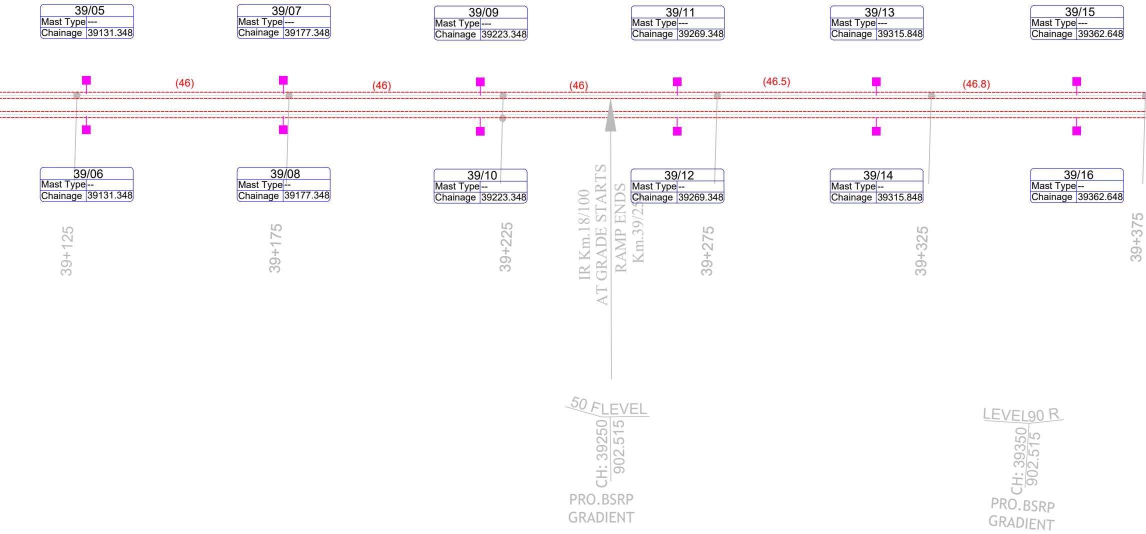
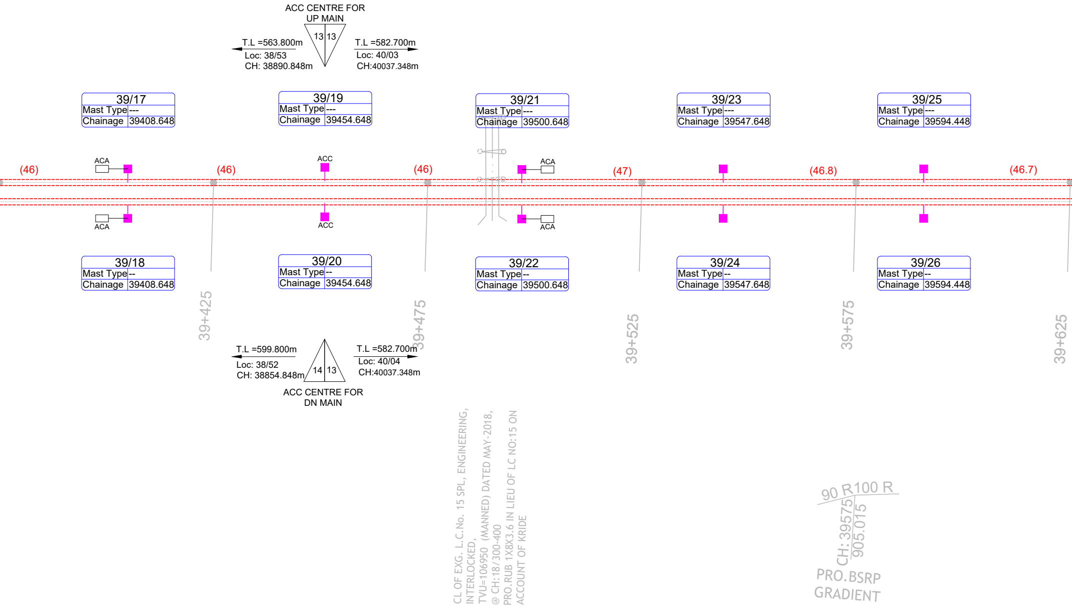
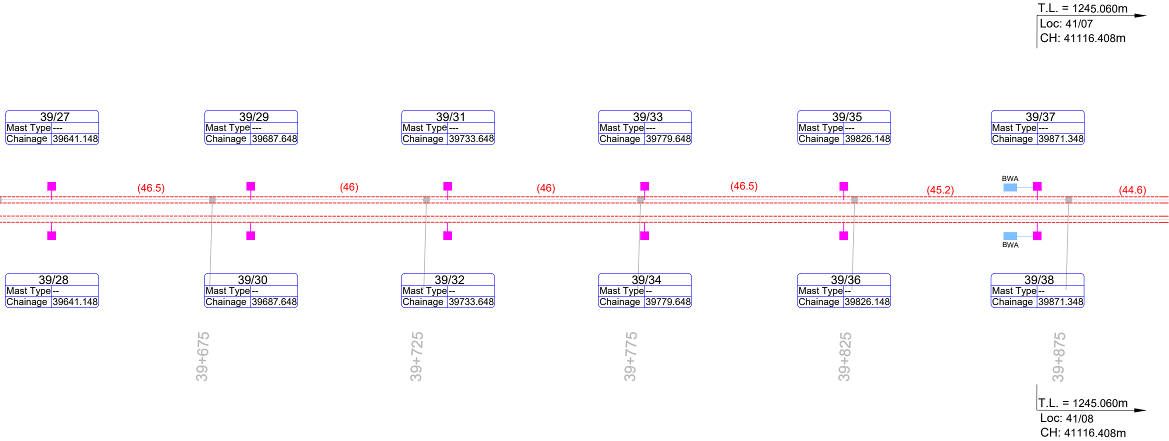

Refer Drawing No.-
KRDD01-TDR-CR04-GEN-OCS-PGP-00014
UP LINE
YELAHANKA
(SUB-URBAN) STATION
DN LINE
38/27
Mast Type ---
Chainage 38406.048
38/29
Mast Type ---
Chainage 38451.048
38/31
Mast Type ---
Chainage 38491.048
38/33
Mast Type ---
Chainage 38529.048
38/35
Mast Type ---
Chainage 38563.048
38/28
Mast Type --
Chainage 38406.048
38/30
Mast Type --
Chainage 38451.048
38/32
Mast Type --
Chainage 38491.048
38/34
Mast Type --
Chainage 38529.048
38/36
Mast Type --
Chainage 38563.048
38/33A
FEDER
CH: 38511.048
38/33B
BM (BRIDGING)
CH: 38520.048
38/33D
FEDER
CH: 38547.048
38/34A
FEDER
CH: 38511.048
38/34C
BM (BRIDGING)
CH: 38538.048
38/34D
FEDER
CH: 38547.048
(45)
(40)
(38)
(34)
PT
BM
LA
ACA
PTFE
12
T.L =485.800m
Loc: 37/58
CH: 37965.248m
13
15
T.L =547.800m
Loc: 38/60
CH:38998.848m
ACC CENTRE FOR
DN MAIN
38+425
38+475
38+525
FP
YELAHANKA
CH: 38+547.048 KM


ACC CENTRE FOR
UP MAIN
14
12
T.L =524.800m
Loc: 38/05
CH: 38072.248m
T.L =441.800m
Loc: 39/01
CH:39038.848m
38/37
Mast Type ---
Chainage 38597.048
38/39
Mast Type ---
Chainage 38635.048
38/41
Mast Type ---
Chainage 38672.948
38/43
Mast Type ---
Chainage 38706.848
38/45
Mast Type ---
Chainage 38744.848
38/47
Mast Type ---
Chainage 38782.848
38/49
Mast Type ---
Chainage 38816.848
ACC
ACA
(34)
(38)
30
(37.9)
190
(33.9)
160
(38)
190
(38)
35
(34)
145
(38)
38/38
Mast Type --
Chainage 38597.048
38/40
Mast Type --
Chainage 38635.048
38/42
Mast Type --
Chainage 38672.948
38/44
Mast Type --
Chainage 38706.848
38/46
Mast Type --
Chainage 38744.848
38/48
Mast Type --
Chainage 38782.848
38/50
Mast Type --
Chainage 38816.848
38+575
38+625
38+675
38+725
38+775
38+825
PRO.CURVE NO.98A (UP&DN)
R = 900 m, D = 1.94°
A = 6°28'4.31"
TL = 50.852 m
CL = 101.597 m
TRL = 40 m
SE = 60 mm
V = 90 kmph
TP1- PRO. CURVE:98 A
(U&DN LINE) ; Ch: 38625.00
175 F LEVEL
CH: 38625
911.515
PRO.BSRP
GRADIENT
CORRIDOR-1
LEVEL 50 F
CH: 38800
911.515
PRO.BSRP
GRADIENT

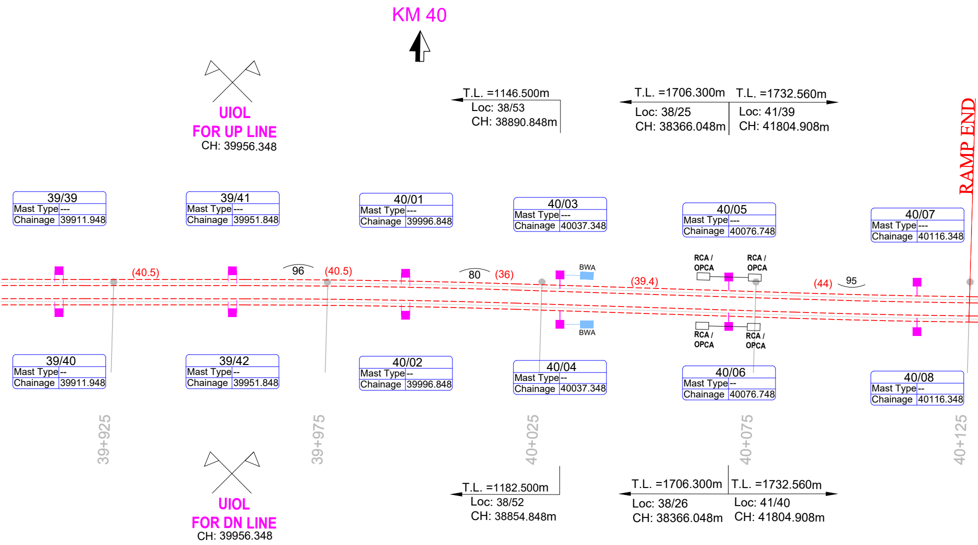

PRO.CURVE NO.99(UP&DN)
R = 900m, D = 1.94°°
A = 5°10'27.26"
TL = 40.67m
CL = 81.29m
TRL = 40 m
SE = 60 mm
V = 90 kmph
T.L. = 1146.500m
Loc: 40/03
CH: 40037.348m
UIOL
FOR UP LINE
CH: 38962.848
KM 39
T.L. =966.600m
Loc: 38/05
CH: 38072.248m
38/51
Mast Type ---
Chainage 38854.848
38/53
Mast Type ---
Chainage 38890.848
38/55
Mast Type ---
Chainage 38926.848
38/57
Mast Type ---
Chainage 38962.848
38/59
Mast Type ---
Chainage 38998.848
39/01
Mast Type ---
Chainage 39038.848
39/03
Mast Type ---
Chainage 39083.848
BWA
160
(36)
175
(36)
(36)
(36)
(40)
BWA
(45)
(47.5)
BWA
BWA
38/52
Mast Type --
Chainage 38854.848
38/54
Mast Type --
Chainage 38890.848
38/56
Mast Type --
Chainage 38926.848
38/58
Mast Type --
Chainage 38962.848
38/60
Mast Type --
Chainage 38998.848
39/02
Mast Type --
Chainage 39038.848
39/04
Mast Type --
Chainage 39083.848
38+875
38+925
38+975
39+025
39+075
T.L. = 1182.500m
Loc: 40/04
CH: 40037.348m
UIOL
FOR DN LINE
CH: 38926.848
T.L. =1033.600m
Loc: 37/58
CH: 37965.248m
TTC1- PRO. CURVE:99 (UP&DN LINE) ; Ch:38835.00
TP1- PRO. CURVE:99 (UP&DN LINE) ; Ch:38855.00
TCC1- PRO. CURVE:99 (UP&DN LINE) ; Ch:38875.00
TCC2- PRO. CURVE:99 (UP&DN LINE) ; Ch:38916.29
TP2- PRO. CURVE:99 (UP&DN LINE) ; Ch:38936.29
TTC2- PRO. CURVE:99 (UP&DN LINE) ; Ch:38956.29


39/05
Mast Type ---
Chainage 39131.348
39/07
Mast Type ---
Chainage 39177.348
39/09
Mast Type ---
Chainage 39223.348
39/11
Mast Type ---
Chainage 39269.348
39/13
Mast Type ---
Chainage 39315.848
39/15
Mast Type ---
Chainage 39362.648
(46)
(46)
(46)
(46.5)
(46.8)
39/06
Mast Type --
Chainage 39131.348
39/08
Mast Type --
Chainage 39177.348
39/10
Mast Type --
Chainage 39223.348
39/12
Mast Type --
Chainage 39269.348
39/14
Mast Type --
Chainage 39315.848
39/16
Mast Type --
Chainage 39362.648
39+125
39+175
39+225
IR Km.18/100
AT GRADE STARTS
RAMP ENDS
Km.39/25
39+275
39+325
39+375
50 F LEVEL
CH: 39250
902.515
PRO.BSRP
GRADIENT
LEVEL 90 R
CH: 39350
902.515
PRO.BSRP
GRADIENT

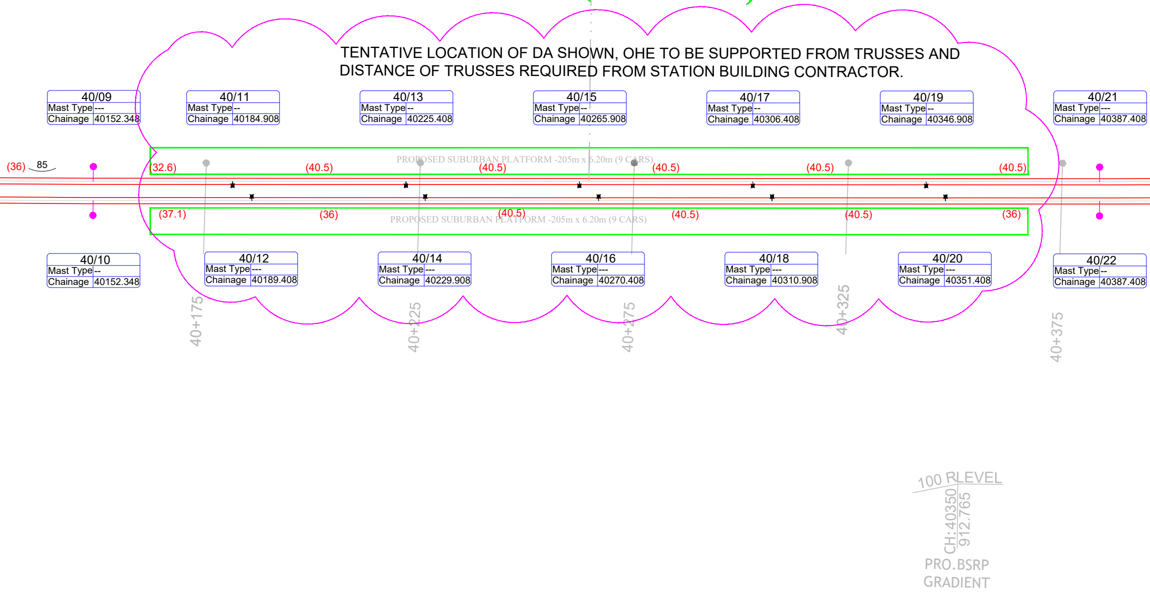

ACC CENTRE FOR UP MAIN
13
13
T.L =563.800m
Loc: 38/53
CH: 38890.848m
T.L =582.700m
Loc: 40/03
CH:40037.348m
39/17
Mast Type ---
Chainage 39408.648
39/19
Mast Type ---
Chainage 39454.648
39/21
Mast Type ---
Chainage 39500.648
39/23
Mast Type ---
Chainage 39547.648
39/25
Mast Type ---
Chainage 39594.448
ACA
ACC
ACA
(46)
(46)
(46)
(47)
(46.8)
(46.7)
ACA
ACC
ACA
39/18
Mast Type --
Chainage 39408.648
39/20
Mast Type --
Chainage 39454.648
39/22
Mast Type --
Chainage 39500.648
39/24
Mast Type --
Chainage 39547.648
39/26
Mast Type --
Chainage 39594.448
39+425
39+475
39+525
39+575
39+625
T.L =599.800m
Loc: 38/52
CH: 38854.848m
14
13
T.L =582.700m
Loc: 40/04
CH:40037.348m
ACC CENTRE FOR DN MAIN
CL OF EXG. L.C.No. 15 SPL, ENGINEERING,
INTERLOCKED,
TVU=106950 (MANNED) DATED MAY-2018,
@ CH:18/300-400
PRO.RUB 1X8X3.6 IN LIEU OF LC NO:15 ON
ACCOUNT OF KRIDE
90 R
100 R
CH: 39575
905.015
PRO.BSRP
GRADIENT



T.L. = 1245.060m
Loc: 41/07
CH: 41116.408m
39/27
Mast Type ---
Chainage 39641.148
39/29
Mast Type ---
Chainage 39687.648
39/31
Mast Type ---
Chainage 39733.648
39/33
Mast Type ---
Chainage 39779.648
39/35
Mast Type ---
Chainage 39826.148
39/37
Mast Type ---
Chainage 39871.348
BWA
(46.5)
(46)
(46)
(46.5)
(45.2)
(44.6)
BWA
39/28
Mast Type --
Chainage 39641.148
39/30
Mast Type --
Chainage 39687.648
39/32
Mast Type --
Chainage 39733.648
39/34
Mast Type --
Chainage 39779.648
39/36
Mast Type --
Chainage 39826.148
39/38
Mast Type --
Chainage 39871.348
39+675
39+725
39+775
39+825
39+875
T.L. = 1245.060m
Loc: 41/08
CH: 41116.408m


KM 40
UIOL
FOR UP LINE
CH: 39956.348
T.L. =1146.500m
Loc: 38/53
CH: 38890.848m
T.L. =1706.300m
Loc: 38/25
CH: 38366.048m
T.L. =1732.560m
Loc: 41/39
CH: 41804.908m
RAMP END
39/39
Mast Type ---
Chainage 39911.948
39/41
Mast Type ---
Chainage 39951.848
40/01
Mast Type ---
Chainage 39996.848
40/03
Mast Type ---
Chainage 40037.348
40/05
Mast Type ---
Chainage 40076.748
40/07
Mast Type ---
Chainage 40116.348
(40.5)
96
(40.5)
80
(36)
BWA
(39.4)
RCA / OPCA
RCA / OPCA
(44)
95
BWA
RCA / OPCA
RCA / OPCA
39/40
Mast Type --
Chainage 39911.948
39/42
Mast Type --
Chainage 39951.848
40/02
Mast Type --
Chainage 39996.848
40/04
Mast Type --
Chainage 40037.348
40/06
Mast Type --
Chainage 40076.748
40/08
Mast Type --
Chainage 40116.348
39+925
39+975
40+025
40+075
40+125
UIOL
FOR DN LINE
CH: 39956.348
T.L. =1182.500m
Loc: 38/52
CH: 38854.848m
T.L. =1706.300m
Loc: 38/26
CH: 38366.048m
T.L. =1732.560m
Loc: 41/40
CH: 41804.908m

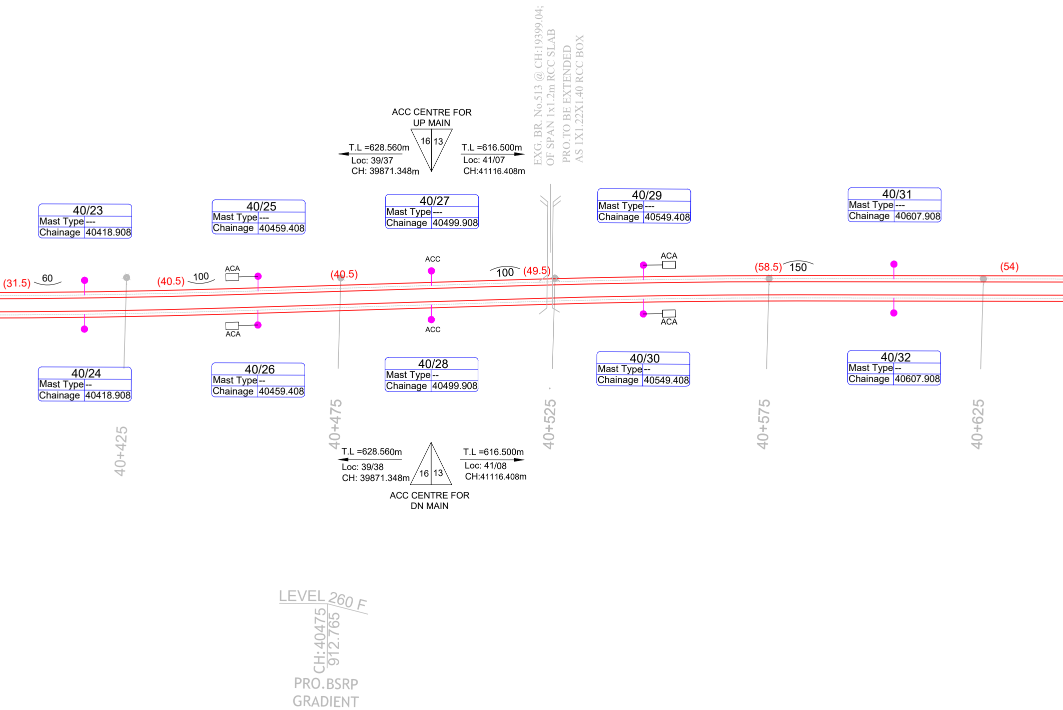
C L OF PRO. FUTURE STN ATGRADE (SUB-URBAN) STATION (Km. 40.265)

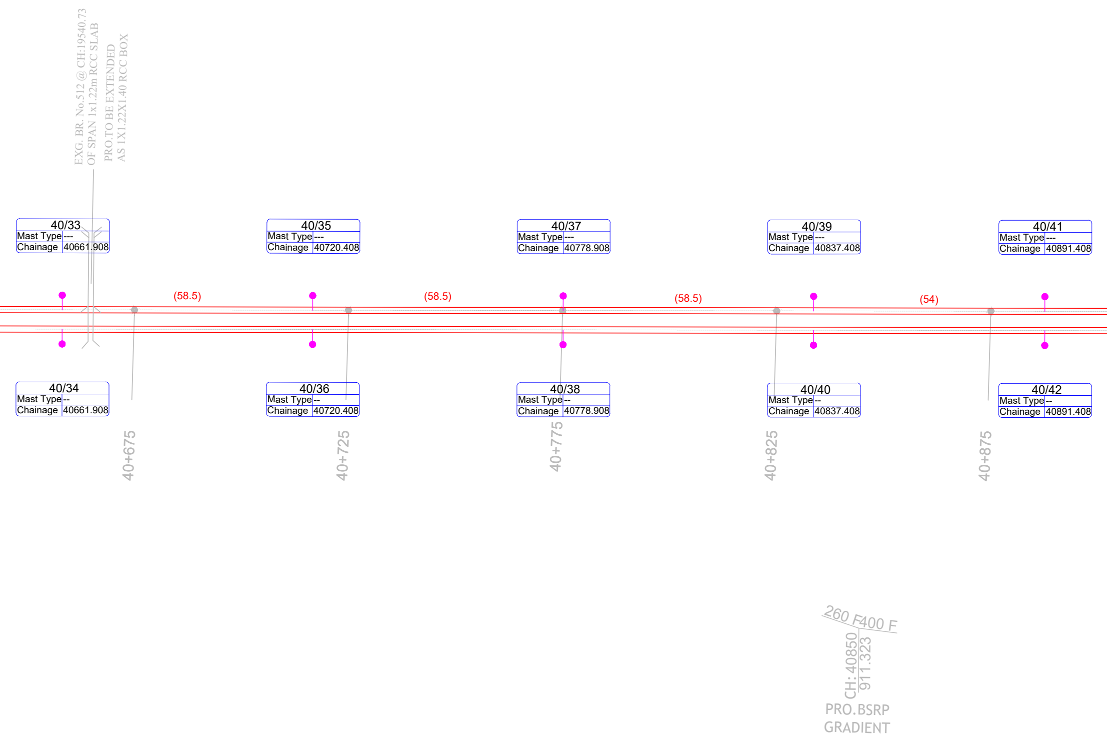


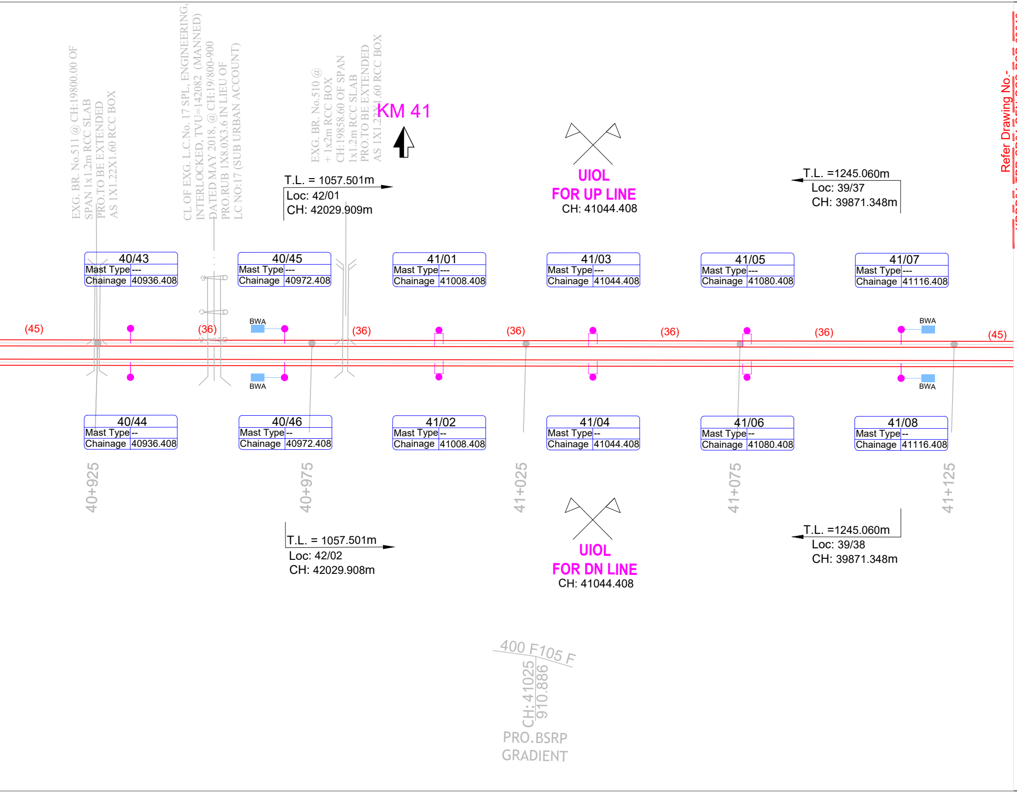
TENTATIVE LOCATION OF DA SHOWN, OHE TO BE SUPPORTED FROM TRUSSES AND DISTANCE OF TRUSSES REQUIRED FROM STATION BUILDING CONTRACTOR.

40/09	Mast Type	---	Chainage	40152.348
40/11	Mast Type	--	Chainage	40184.908
40/13	Mast Type	--	Chainage	40225.408
40/15	Mast Type	--	Chainage	40265.908
40/17	Mast Type	--	Chainage	40306.408
40/19	Mast Type	--	Chainage	40346.908
40/21	Mast Type	---	Chainage	40387.408
40/10	Mast Type	--	Chainage	40152.348
40/12	Mast Type	---	Chainage	40189.408
40/14	Mast Type	---	Chainage	40229.908
40/16	Mast Type	---	Chainage	40270.408
40/18	Mast Type	---	Chainage	40310.908
40/20	Mast Type	---	Chainage	40351.408
40/22	Mast Type	--	Chainage	40387.408

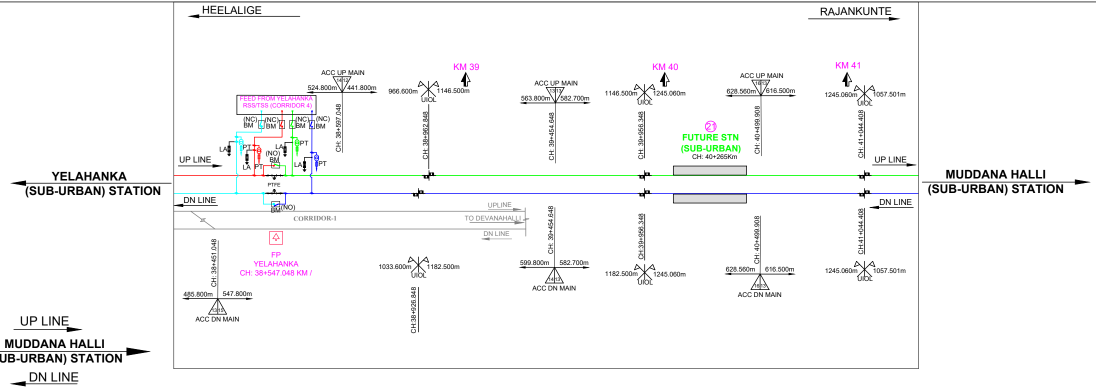
(36)
85
(32.6)
(40.5)
(40.5)
(40.5)
(40.5)
(40.5)
PROPOSED SUBURBAN PLATFORM -205m x 6.20m (9 CARS)
(37.1)
(36)
(40.5)
(40.5)
(40.5)
(36)
PROPOSED SUBURBAN PLATFORM -205m x 6.20m (9 CARS)
40+175
40+225
40+275
40+325
40+375
100 RLEVEL
CH:40350
912.765
PRO.BSRP
GRADIENT


ACC CENTRE FOR
UP MAIN
16
13
T.L =628.560m
Loc: 39/37
CH: 39871.348m
T.L =616.500m
Loc: 41/07
CH:41116.408m
EXG. BR. No.513 @ CH:19399.04;
OF SPAN 1x1.2m RCC SLAB
PRO.TO BE EXTENDED
AS 1X1.22X1.40 RCC BOX
40/23
Mast Type ---
Chainage 40418.908
40/25
Mast Type ---
Chainage 40459.408
40/27
Mast Type ---
Chainage 40499.908
40/29
Mast Type ---
Chainage 40549.408
40/31
Mast Type ---
Chainage 40607.908
(31.5)
60
(40.5)
100
ACA
(40.5)
ACC
100
(49.5)
ACA
(58.5)
150
(54)
ACA
ACC
ACA
40/24
Mast Type --
Chainage 40418.908
40/26
Mast Type --
Chainage 40459.408
40/28
Mast Type --
Chainage 40499.908
40/30
Mast Type --
Chainage 40549.408
40/32
Mast Type --
Chainage 40607.908
40+425
40+475
40+525
40+575
40+625
T.L =628.560m
Loc: 39/38
CH: 39871.348m
16
13
T.L =616.500m
Loc: 41/08
CH:41116.408m
ACC CENTRE FOR
DN MAIN
LEVEL 260 F
CH:40475
912.765
PRO.BSRP
GRADIENT


EXG. BR. No.512 @ CH:19540.73
OF SPAN 1x1.22m RCC SLAB
PRO.TO BE EXTENDED
AS 1X1.22X1.40 RCC BOX
40/33
Mast Type ---
Chainage 40661.908
40/35
Mast Type ---
Chainage 40720.408
40/37
Mast Type ---
Chainage 40778.908
40/39
Mast Type ---
Chainage 40837.408
40/41
Mast Type ---
Chainage 40891.408
(58.5)
(58.5)
(58.5)
(54)
40/34
Mast Type --
Chainage 40661.908
40/36
Mast Type --
Chainage 40720.408
40/38
Mast Type --
Chainage 40778.908
40/40
Mast Type --
Chainage 40837.408
40/42
Mast Type --
Chainage 40891.408
40+675
40+725
40+775
40+825
40+875
260 F
400 F
CH: 40850
911.323
PRO.BSRP
GRADIENT


EXG. BR. No.511 @ CH:19800.00 OF SPAN 1x1.2m RCC SLAB PRO.TO BE EXTENDED AS 1X1.22X1.60 RCC BOX
CL OF EXG. L.C.No. 17 SPL. ENGINEERING, INTERLOCKED, TVU=142082 (MANNED) DATED MAY 2018, @ CH:19/800-900 PRO.RUB 1X8.0X3.6 IN LIEU OF LC NO:17 (SUB URBAN ACCOUNT)
EXG. BR. No.510 @ + 1x2m RCC BOX CH:19858.60 OF SPAN 1x1.2m RCC SLAB PRO.TO BE EXTENDED AS 1X1.22X1.60 RCC BOX
KM 41
T.L. = 1057.501m
Loc: 42/01
CH: 42029.909m
UIOL
FOR UP LINE
CH: 41044.408
T.L. =1245.060m
Loc: 39/37
CH: 39871.348m
40/43 Mast Type --- Chainage 40936.408
40/45 Mast Type --- Chainage 40972.408
41/01 Mast Type --- Chainage 41008.408
41/03 Mast Type --- Chainage 41044.408
41/05 Mast Type --- Chainage 41080.408
41/07 Mast Type --- Chainage 41116.408
(45)
(36)
BWA
(36)
(36)
(36)
(36)
BWA
(45)
(S
BWA
BWA
40/44 Mast Type -- Chainage 40936.408
40/46 Mast Type -- Chainage 40972.408
41/02 Mast Type -- Chainage 41008.408
41/04 Mast Type -- Chainage 41044.408
41/06 Mast Type -- Chainage 41080.408
41/08 Mast Type -- Chainage 41116.408
40+925
40+975
41+025
41+075
41+125
T.L. = 1057.501m
Loc: 42/02
CH: 42029.908m
UIOL
FOR DN LINE
CH: 41044.408
T.L. =1245.060m
Loc: 39/38
CH: 39871.348m
400 F105 F
CH: 41025
910.886
PRO.BSRP
GRADIENT

Refer Drawing No.-
KRDD01-TDR-CR04-GEN-OCS-PGP-00016


HEELALIGE
RAJANKUNTE
YELAHANKA
(SUB-URBAN) STATION
MUDDANA HALLI
(SUB-URBAN) STATION
UP LINE
DN LINE
ACC UP MAIN
14 12
524.800m
441.800m
CH: 38+597.048
FEED FROM YELAHANKA
RSS/TSS (CORRIDOR 4)
(NC)
BM
(NC)
BM
(NC)
BM
(NC)
BM
LA
PT
LA
PT
(NO)
BM
LA
PT
LA
PT
PTFE
BM(NO)
KM 39
966.600m
1146.500m
UIOL
CH: 38+962.848
ACC UP MAIN
13 13
563.800m
582.700m
CH: 39+454.648
KM 40
1146.500m
1245.060m
UIOL
CH: 39+956.348
21
FUTURE STN
(SUB-URBAN)
CH: 40+265Km
ACC UP MAIN
16 13
628.560m
616.500m
CH: 40+499.908
KM 41
1245.060m
1057.501m
UIOL
CH: 41+044.408
UPLINE
CORRIDOR-1
TO DEVANAHALLI
DN LINE
FP
YELAHANKA
CH: 38+547.048 KM /
CH: 38+451.048
485.800m
547.800m
13 15
ACC DN MAIN
1033.600m
1182.500m
UIOL
CH:38+926.848
CH: 39+454.648
599.800m
582.700m
14 13
ACC DN MAIN
CH:39+956.348
1182.500m
1245.060m
UIOL
CH: 40+499.908
628.560m
616.500m
16 13
ACC DN MAIN
CH:41+044.408
1245.060m
1057.501m
UIOL
UP LINE
MUDDANA HALLI
(SUB-URBAN) STATION
DN LINE

NOTES:

1. ALL DIMENSIONS ARE IN METER UNLESS MENTIONED OTHERWISE.
2. ALL DIMENSIONS ARE TO BE READ AND NOT TO BE MEASURED.
3. ANY DISCREPANCY IN THE DRAWING MUST BE BROUGHT TO THE NOTICE OF THE DESIGNER.
4. INTERFACE WITH OTHER DESIGN DISCIPLINE WILL BE DONE AS PER AVAILABILITY OF DETAILS.

LEGEND

Sr. No.	DESCRIPTION	SYMBOL
1	OHE Span length in metres	(30)
2	Insulated Overlap (IOL)	
3	Un insulated Overlap (UIOL)	
4	Section Insulator	
5	Single Pole Isolator	
6	Double pole Isolator with Earth Heel	
7	Normal Mast with Single Cantilever Assembly at Viaduct	
8	Normal Mast with Multiple Cantilever Assembly at Viaduct	
9	Normal Mast with triple Cantilever Assembly at Viaduct	
10	Portal with Drop Arm and Single Cantilever Assembly at Viaduct	
11	Portal with Drop Arm and Double Cantilever Assembly at Viaduct	
12	Two Track Cantilever Assembly (TTC 5.50/8.0) at Viaduct	
13	Normal Mast with Single Cantilever Assembly at Grade	
14	Normal Mast with Multiple Cantilever Assembly at Grade	
15	Normal Mast with triple Cantilever Assembly at Grade	
16	Portal with Drop Arm and Single Cantilever Assembly at Grade	
17	Portal with Drop Arm and Double Cantilever Assembly at Grade	
18	Two Track Cantilever Assembly (TTC 5.50/8.0) at Grade	
19	Drop arm support with single cantilever (6"x6" DA)	
20	Drop arm support with Double cantilever (8"x6" DA)	
21	Drop arm support with triple cantilever (8"x6" DA)	
22	Anchoring stay with Fixed Termination-conv.	FTA
23	Anchoring Stay with Spring Termination Anchor	BWA
24	Versine	300
25	Anticreep Anchor	ACA
26	Anticreep Center	ACC
27	Tension Length	TL

28	Upright Details (Clearspan)	BFBU/GU(CS:xx)
29	Sub-Sectioning and Paralleling Post (SSP)	
30	Sub-Sectioning Post (SS)	
31	Sectioning and Paralleling Post (SP)	
32	Feeding Post (FP)	
33	Obligatory	OBL
34	To Be Decided	TBD
35	Interrupter(BM)	
36	Potential Transformer (PT)	
37	Lightning Arrestor (LA)	
38	Booster Transformer	
39	Spare	
40	Overhead Protection Conductor Anchor	OPCA
41	Return Conductor Anchor	RCA
42	Tramway OHE	
43	In-Run Wire	
44	Out-of Run Wire	
45	PTFE	
46	Overhead Protection Conductor	
47	Return Conductor	
48	Cross feeder	
49	Slack feeder	
50	Full Feeding Jumper	
51	Potential Equalising Jumper	
52	In-Span Jumper	
53	RC and OPC Support	
54	Track at UP/DN line (Corridor 2)	
55	Track on Viaduct	

NOTES:-

1. ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE.
2. ALL DIMENSIONS ARE TO BE READ AND NOT TO BE MEASURED.
3. ALIGNMENT OF THE PEGGING PLAN HAS BEEN PREPARED ACCORDING TO THE ALIGNMENT DRAWING RECEIVED FROM GC / KRIDE DT. 22-06-2024.
4. OHE CHAINAGES OF THE PEGGING PLAN HAS BEEN TAKEN WITH REFERENCE TO THE OHE SPAN FROM THE PREVIOUS LOCATION.
5. SPANS ARE ROUNDED OFF TO NEAREST SINGLE DECIMAL.
6. MAST TYPE SHALL BE DEMARCATED IN PEGGING PLAN AFTER FINALIZATION OF OHE LOAD CALCULATIONS.
7. OHE HEIGHT CLEARANCE UNDER/OVER LINE STRUCTURE (HT. LINE X-ING ETC.) TO BE CONFIRMED OR SPECIAL CARE TO BE TAKEN BEFORE ERECTION FOR THAT PARTICULAR AREA WHEREVER REQUIRED.
8. OHE LOCATIONS IN THE ELEVATED SECTION WILL BE FINALIZED AFTER RECEIVING OF PIER SPAN ARRANGEMENT.
9. CROSS-SECTION OF VIADUCT IS REQUIRED FOR FINALIZING OF OHE ARRANGEMENT BETWEEN CORRIDOR 1 & CORRIDOR 4.

FOR TENDER PURPOSE ONLY

REV	DATE	DESCRIPTION	Originator	Checked	Approved
R0	06-09-2024	First Submission	KB / SB	CK/NP	RK/SK

K RIDE

DM / ELE / KRIDE	Sr. DGM / ELE / KRIDE	AGM / ELE / KRIDE

Certified that this document has been designed and checked in accordance with GC Quality Assurance Plan.

EGIS-AECOM-WSP

Senior Discipline Expert	Chief Discipline Expert	Project Director

Certified that this document has been designed and checked in accordance with DDC Quality Assurance Plan.

Detailed Design Consultant for design of Traction & Auxiliary Power Supply and Distribution for BSRP

SYSTRA MVA CONSULTING (INDIA) PVT. LTD.
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Drawn		Checked:		Approved:	
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S. Bhati		N. Parmar		S. Kumar	Satish Kumar

Client:

RAIL INFRASTRUCTURE
DEVELOPMENT COMPANY
(KARNATAKA) LIMITED

Project Title: Bengaluru Suburban Rail Project (BSRP)
(Detailed Design Consultant for design of Traction & Auxiliary Power Supply and Distribution for BSRP)

Corridor-4 (Heelalige -Rajankunte)

Drawing Title: OHE Pegging Plan for Main Line
CH: 38+406.048Km to CH: 41+125.00Km

Project Stage: Tender Drawing

Paper Size: 297X5000
Discipline: Power Supply & Traction System
Date: 06/09/2024
Scale: NTS

Drawing no.: KRDD01-TDR-CR04-GEN-OCS-PGP-00015
Revision: R0