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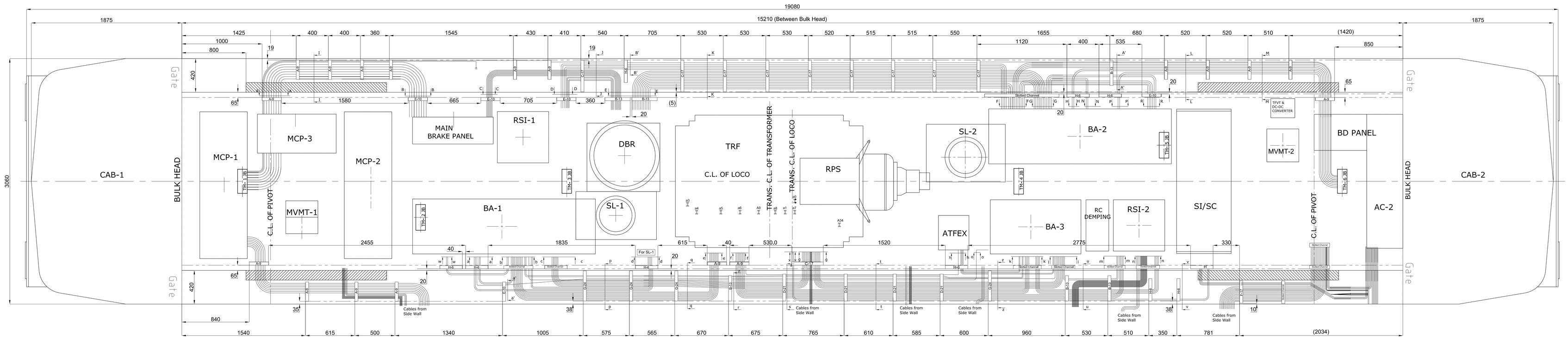
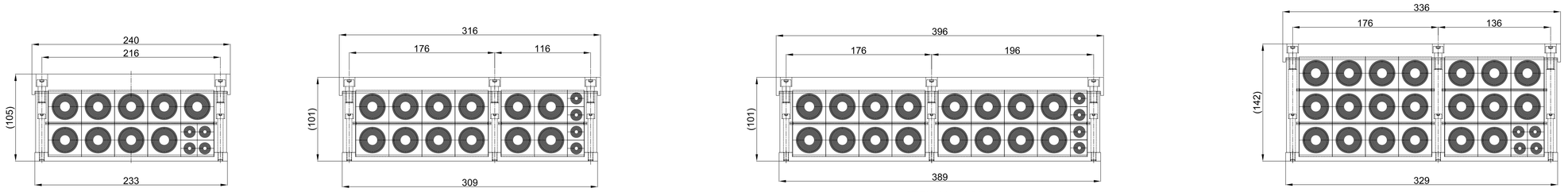
R.H. CORRIDOR



L.H. CORRIDOR



Module Type - A9

Cable Size
185 sqmm (Ø 24) = 8 nos
10 sqmm (Ø 7) = 1 nos

Module Type
i) Module A9 - Ø9.5 - 32.5 = 9 nos
ii) Module A9 - Ø3.5 - 16.5 = 2 nos

Module Type - B13

Cable Size
185 sqmm (Ø 24) = 10 nos
120 sqmm (Ø 20) = 2 nos
10 sqmm (Ø 7) = 1 nos

Module Type
i) Module B13 - Ø9.5 - 32.5 = 12 nos
ii) Module B13 - Ø3.5 - 16.5 = 2 nos

Cable Size
300 sqmm (Ø 30) = 8 nos
185 sqmm (Ø 24) = 2 nos
120 sqmm (Ø 20) = 2 nos
2.5 sqmm (Ø 4) = 17 nos (In Two bunch)

Module Type
i) Module B13 - Ø9.5 - 32.5 = 12 nos
ii) Module B13 - Ø3.5 - 16.5 = 2 nos

Module Type - C17

Cable Size
120 sqmm (Ø 20) = 12 nos
185 sqmm (Ø 24) = 4 nos
10 sqmm (Ø 7) = 1 nos

Module Type
i) Module C17 - Ø9.5 - 32.5 = 16 nos
ii) Module C17 - Ø3.5 - 16.5 = 2 nos

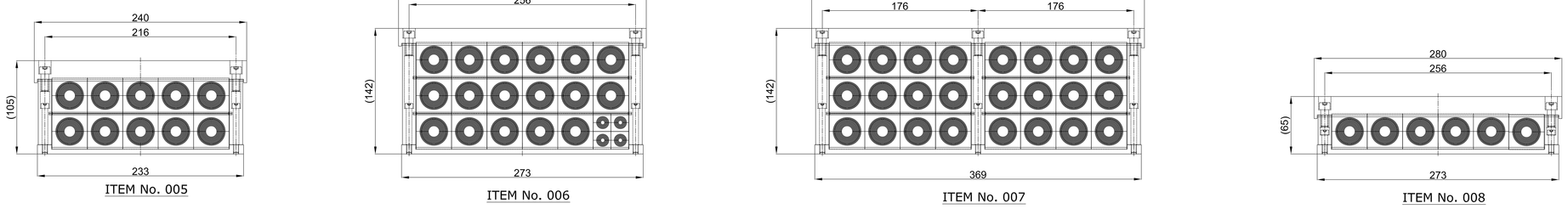
Cable Size
19x2.5 sqmm (Ø 23) = 13 nos
10 sqmm (Ø 7) = 3 nos
2.5 sqmm (Ø 4) = 3 nos (In One bunch)

Module Type
i) Module C17 - Ø9.5 - 32.5 = 16 nos
ii) Module C17 - Ø3.5 - 16.5 = 2 nos

Module Type - D21

Cable Size
300 sqmm (Ø 30) = 8 nos
185 sqmm (Ø 24) = 2 nos
120 sqmm (Ø 20) = 10 nos
35 sqmm (Ø 11) = 1 nos

Module Type
i) Module D21 - Ø9.5 - 32.5 = 20 nos
ii) Module D21 - Ø3.5 - 16.5 = 2 nos



Module Type - E10

Cable Size
185 sqmm (Ø 24) = 2 nos
120 sqmm (Ø 20) = 8 nos

Module Type
Module E10 - Ø9.5 - 32.5 = 10 nos

Module Type - F17

Cable Size
19x2.5 sqmm (Ø 23) = 13 nos
95 sqmm (Ø 17) = 3 nos
2.5 sqmm (Ø 4) = 6 nos (In One bunch)

Module Type
i) Module F17 - Ø9.5 - 32.5 = 16 nos
ii) Module F17 - Ø3.5 - 16.5 = 1 nos

Module Type - G24

Cable Size
300 sqmm (Ø 30) = 8 nos
185 sqmm (Ø 24) = 6 nos
120 sqmm (Ø 20) = 10 nos

Module Type
Module G24 - Ø9.5 - 32.5 = 24 nos

Module Type - H6

Cable Size
120 sqmm (Ø 20) = 2 nos
95 sqmm (Ø 17) = 3 nos
2.5 sqmm (Ø 4) = 6 nos (In one bunch)

Module Type
Module H6 - Ø9.5 - 32.5 = 6 nos

Note:-
1. All dimensions are in mm.
2. This Cable management system is designed for provision on Power Cable Trench in New WAG -7 Crew Friendly Locomotives.
3. Refer sht -3/3 for sectional detail for cables .
4. The drg. to be refered for EPDM Module cabling in corridors.

VAR. OO	REMARKS	VAR NO.	ITEM NO.	DESCRIPTION	STS	DRAWING NO.	IT. NO. / VAR.	MATL CODE / MATL. SPECN	A C T	UNIT	UNIT WT. / QTY.	LSS	DATE
			008	MODULE TYPE - H6									
			007	MODULE TYPE - G24									
			006	MODULE TYPE - F17									
			005	MODULE TYPE - E10									
			004	MODULE TYPE - D21									
			003	MODULE TYPE - C17									
			002	MODULE TYPE - B13									
			001	MODULE TYPE - A9									

CARD TYPE - 3 | CARD TYPE - 1 | CARD TYPE - 2

ADDITIONAL INFORMATION

STATUS OF DRAWING

DISTRIBUTION OF PRINTS

LME	LMP	LMM	BAY 1&2	BAY 3	
1	1	3	3	1	

TYPE OF PRODUCT / OR / NAME OF CUSTOMER/PROJECT: WAG-7 AC LOCOMOTIVE, M/s RLY. BOARD NEW DELHI

BHARAT HEAVY ELECTRICALS LTD. JHANSI

	NAME	SIGN	DATE
DRN	B.Bharti	Sd/-	29.04.09
CHD	Santan	Sd/-	29.04.09
APPD	UK/MKS	Sd/-	29.04.09

DEPT CCE | CODE 404 | GRADE OF UNTOL DIM GM/F | SCALE NTS | WEIGHT (KG) -

REF. TO ASSY. NO. IN 1000014(ROXTEC) | ITEM NO. | NO. OF ITEM 08

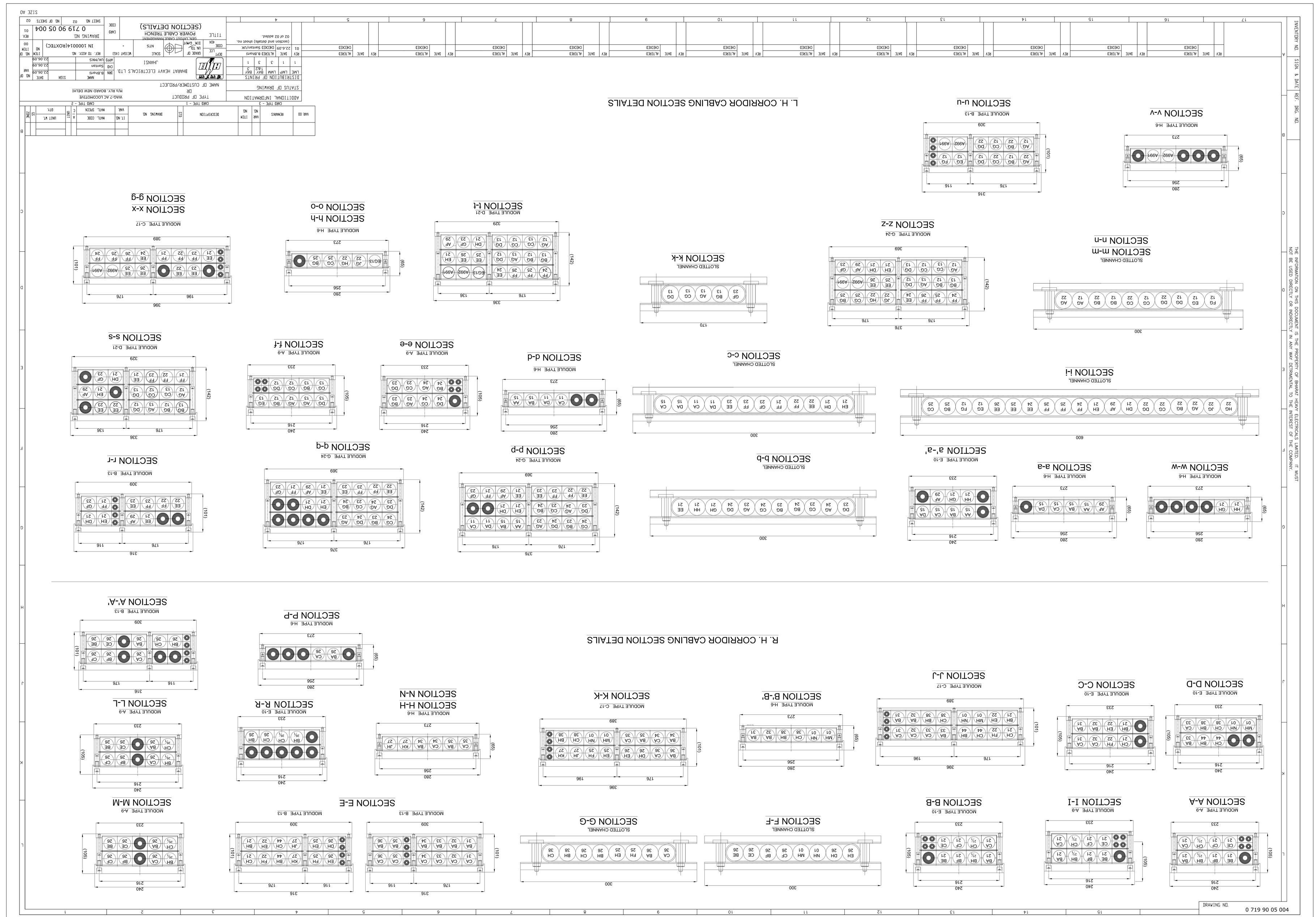
TITLE: GEN. LAYOUT CABLE MANAGEMENT POWER CABLE TRENCH

CARD CODE | DRAWING NO. 0 719 90 05 004 | REV. 01

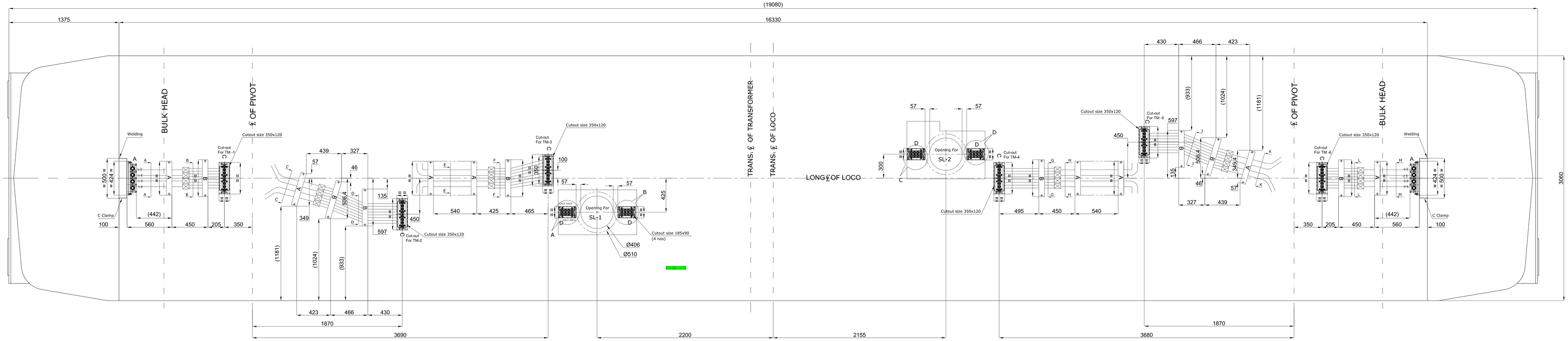
SHEET NO. 01 | NO. OF SHEETS 02

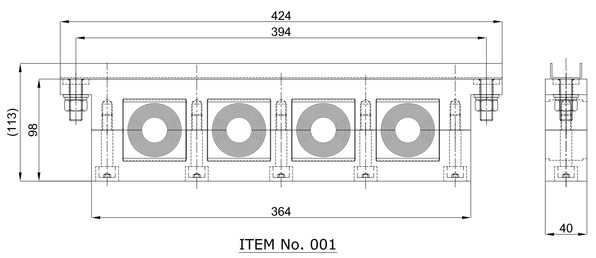
SIZE A0

REV	DATE	ALTERED / CHECKED
01	22.6.09	ALTERED B.Bharti / CHECKED Santan/UK (section and details) sheet no. 02 of 02 added. and note no. 3 & 4 added.

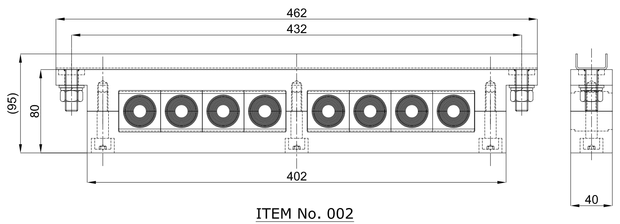

L. H. CORRIDOR CABLING SECTION DETAILS
SECTION u-u
MODULE TYPE B-13
SECTION v-v
MODULE TYPE H-6
SECTION w-w
MODULE TYPE H-6
SECTION a'-a'
MODULE TYPE E-10
SECTION a-a
MODULE TYPE H-6
SECTION b-b
SLOTTED CHANNEL
SECTION i-i
SLOTTED CHANNEL
SECTION c-c
SLOTTED CHANNEL
SECTION d-d
MODULE TYPE H-6
SECTION e-e
MODULE TYPE A-9
SECTION f-f
MODULE TYPE A-9
SECTION k-k
SLOTTED CHANNEL
SECTION z-z
MODULE TYPE G-24
SECTION m-m
SECTION n-n
SLOTTED CHANNEL
SECTION t-t
MODULE TYPE D-21
SECTION o-o
MODULE TYPE H-6
SECTION h-h
MODULE TYPE H-6
SECTION x-x
SECTION g-g
MODULE TYPE C-17
SECTION s-s
MODULE TYPE D-21
SECTION p-p
MODULE TYPE G-24
SECTION q-q
MODULE TYPE G-24
SECTION r-r
MODULE TYPE B-13
R. H. CORRIDOR CABLING SECTION DETAILS
SECTION A-A
MODULE TYPE A-9
SECTION B-B
MODULE TYPE E-10
SECTION C-C
MODULE TYPE E-10
SECTION D-D
MODULE TYPE E-10
SECTION E-E
MODULE TYPE B-13
SECTION F-F
SLOTTED CHANNEL
SECTION G-G
SLOTTED CHANNEL
SECTION H-H
SECTION N-N
MODULE TYPE H-6
SECTION I-I
MODULE TYPE A-9
SECTION J-J
MODULE TYPE C-17
SECTION K-K
MODULE TYPE C-17
SECTION L-L
MODULE TYPE A-9
SECTION M-M
MODULE TYPE A-9
SECTION P-P
MODULE TYPE H-6
SECTION R-R
MODULE TYPE E-10
SECTION A'-A'
MODULE TYPE B-13

| CAB3 TYPE - 3 | | |

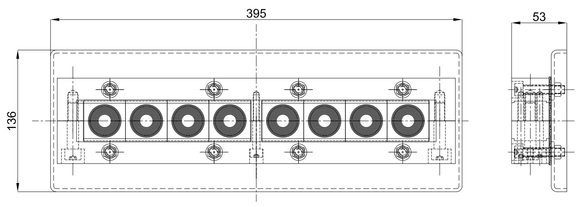




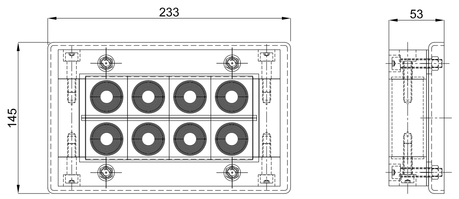
ITEM No. 001



ITEM No. 002



ITEM No. 003



ITEM No. 004

S No.	Arrangement	Qty.
1	Module Type - A4	10 nos.
2	Module Type - B8	08 nos.
3	Module Type - C8	06 nos.
4	Module Type - D8	04 nos.

Module Type - A4

Cable Size

300 sqmm (Ø 30) = 4 nos

Module Type

Module A4 - Ø28 - Ø54 = 4 nos

Module Type - B8

Cable Size

185 sqmm (Ø 24) = 8 nos

Module Type

Module B8 - Ø9.5 - Ø32.5 = 8 nos

Module Type - C8

Cable Size

185 sqmm (Ø 24) = 8 nos

Module Type

Module C8 - Ø9.5 - Ø32.5 = 8 nos

Module Type - D8

Cable Size

185 sqmm (Ø 24) = 8 nos

Module Type

Module D8 - Ø9.5 - Ø32.5 = 8 nos

Note:-
1. All dimensions are in mm
2. This Cable management system is designed for Cables from Inside to Outside the Loco running through Underframe till TM for provision in New WAG -7 Crew Friendly Locomotives
3. Refer sht.-2/2 for sectional detail for cables .
4. The drg. to be refered for EPDM Module cabling in u/f..

VAR. 00	REMARKS	VAR NO.	ITEM NO.	DESCRIPTION	STD	DRAWING NO.	IT. NO.	MATL. CODE	A/C	UNIT	UNIT WT.	GS	ITEM
							VAR.	MATL. SPECN			QTY.		
			004	MODULE TYPE - D8									
			003	MODULE TYPE - C8									
			002	MODULE TYPE - B8									
			001	MODULE TYPE - A4									

CARD TYPE - 3

ADDITIONAL INFORMATION

STATUS OF DRAWING

DISTRIBUTION OF PRINTS

LME	LMP	LMM	BAY 1&2	BAY 3
1	1	3	3	1

CARD TYPE - 1

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT: WAG-7 AC LOCOMOTIVE, M/s RLY. BOARD NEW DELHI

CARD TYPE - 2

BHARAT HEAVY ELECTRICALS LTD. JHANSI

	NAME	SIGN	DATE
DRN	B.Bharti	Sd/-	29.04.09
CHD	Santan	Sd/-	29.04.09
APPD	UK/MKS	Sd/-	29.04.09

NO. OF VAR: 00

REV	DATE	ALTERED	CHECKED
01	22.6.09	B.Bharti	Santan/UK

(section and details) sheet no. 02 of 02 added. and note no. 3 & 4 added.

DEPT: LCE | CODE: 404 | GRADE OF UNLTD. DIN: 6/M/T | SCALE: NTS | WEIGHT (KG): - | REF. TO ASSY. NO.: IN 1000026(ROXTEC) | ITEM NO.: | NO. OF ITEM: 00

TITLE: GEN. LAYOUT UNDER DARRIAGE TO TM & INSIDE TO OUTSIDE THE LOCO.

CARD CODE

DRAWING NO.: 0 719 90 05 003 | REV. NO.: 01

SHEET NO. 01 | NO. OF SHEETS 02

SIZE A0

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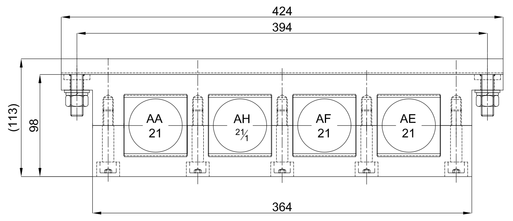
INVENTORY NO. | SIGN & DATE | REF. DRG. NO.

REV	DATE	ALTERED	CHECKED

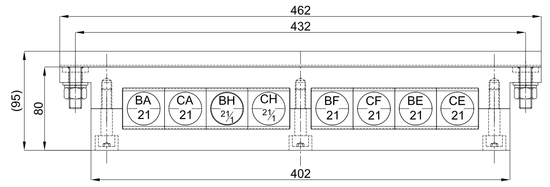
FIRST ANGLE PROJECTION (ALL DIMENSIONS ARE IN mm)

DRAWING NO. 0 719 90 05 003



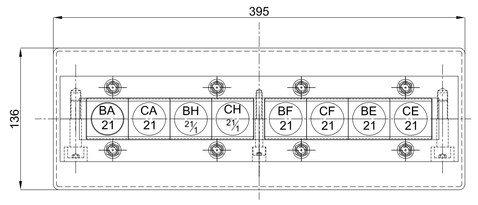
MODULE TYPE A-4

SECTION A-A



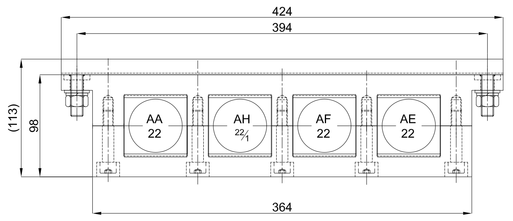
MODULE TYPE B-8

SECTION B-B



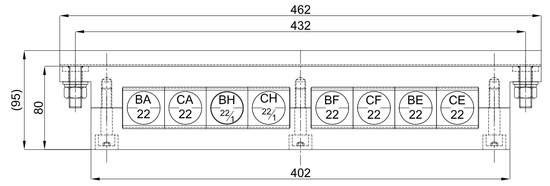
MODULE TYPE C-8

SECTION B'-B'



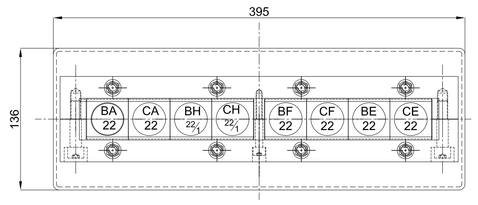
MODULE TYPE A-4

SECTION C-C



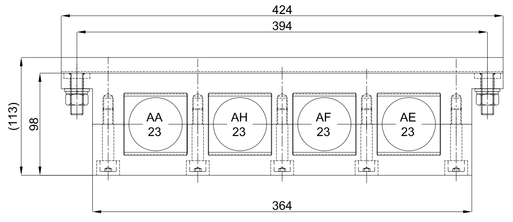
MODULE TYPE B-8

SECTION D-D



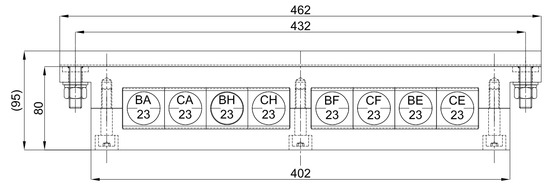
MODULE TYPE C-8

SECTION D'-D'



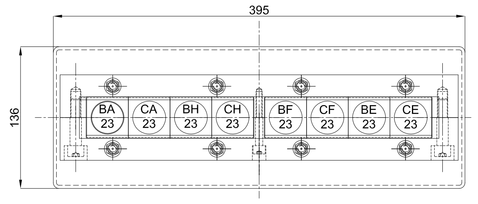
MODULE TYPE A-4

SECTION E-E



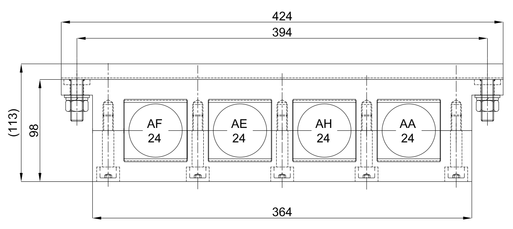
MODULE TYPE B-8

SECTION F-F



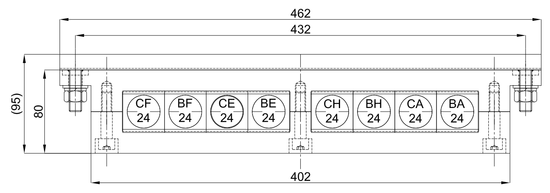
MODULE TYPE C-8

SECTION F'-F'



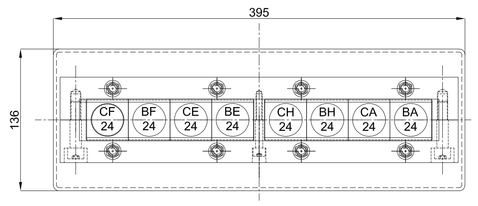
MODULE TYPE A-4

SECTION H-H



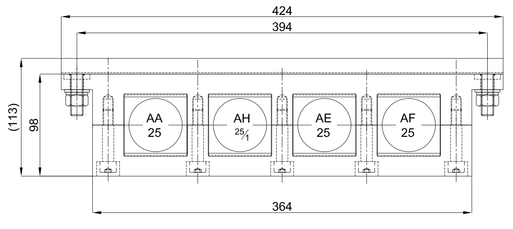
MODULE TYPE B-8

SECTION G-G



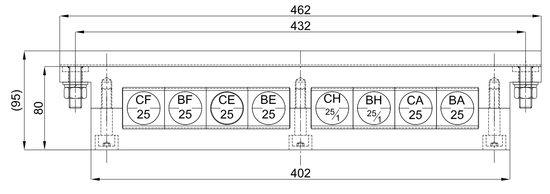
MODULE TYPE C-8

SECTION G'-G'



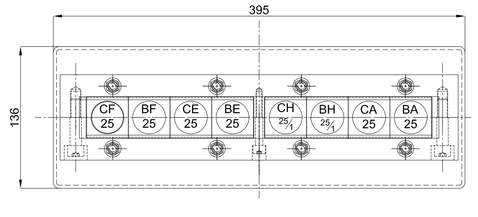
MODULE TYPE A-4

SECTION K-K



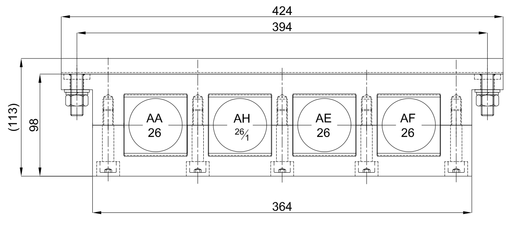
MODULE TYPE B-8

SECTION J-J



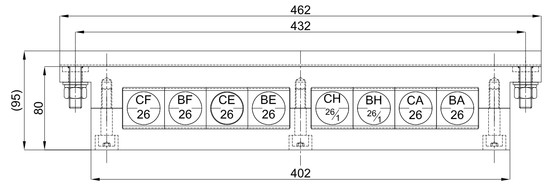
MODULE TYPE C-8

SECTION J'-J'



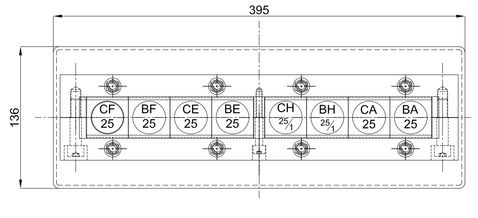
MODULE TYPE A-4

SECTION M-M



MODULE TYPE B-8

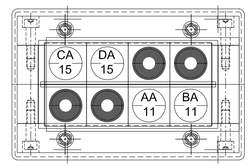
SECTION L-L



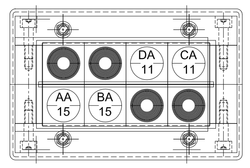
MODULE TYPE C-8

SECTION L'-L'

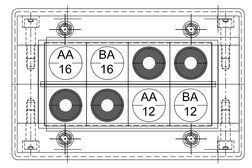
DETAIL OF CONNECTION FOR SL-1 & SL-2



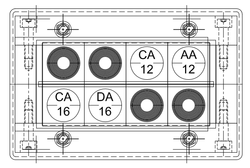
DETAIL VIEW - A



DETAIL VIEW - B



DETAIL VIEW - C



DETAIL VIEW - D

Note:- All cable designation shown in above Detail view are from inside the LOCO.

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SIGN & DATE REF. DRG. NO.

INVENTORY NO.

REV	DATE	ALTERED / CHECKED
01	22.6.09	ALTERED B.Bharti / CHECKED Santan/UK (section and details) sheet no. 02 of 02 added. and note no. 3 & 4 added.

VAR. OO	REMARKS	VAR NO.	ITEM NO.	DESCRIPTION	SYS	DRAWING NO.	IT. NO.	MATL. CODE	A / C	UNIT	UNIT WT.	QS	ITEM
							VAR.	MATL. SPECN			QTY.		

CARD TYPE - 3 CARD TYPE - 1 CARD TYPE - 2

ADDITIONAL INFORMATION

STATUS OF DRAWING

DISTRIBUTION OF PRINTS

LME	LMP	LMM	BAY 1&2	BAY 3
1	1	3	3	1

TYPE OF PRODUCT: WAG-7 AC LOCOMOTIVE
OR
NAME OF CUSTOMER/PROJECT: M/s RLY. BOARD NEW DELHI

BHARAT HEAVY ELECTRICALS LTD. JHANSI

	NAME	SIGN	DATE	NO. OF VAR
DRN	B.Bharti		29.04.09	
CHD	Santan		29.04.09	
APPD	UK/MKS		29.04.09	

DEPT	GRADE OF	SCALE	WEIGHT (KG)	REF. TO ASSY. NO.	ITEM NO.	NO. OF ITEM
LCE	UN TOL. DIM. CM/T	NTS	-	IN 1000026(ROXTEC)		00
CODE 404						

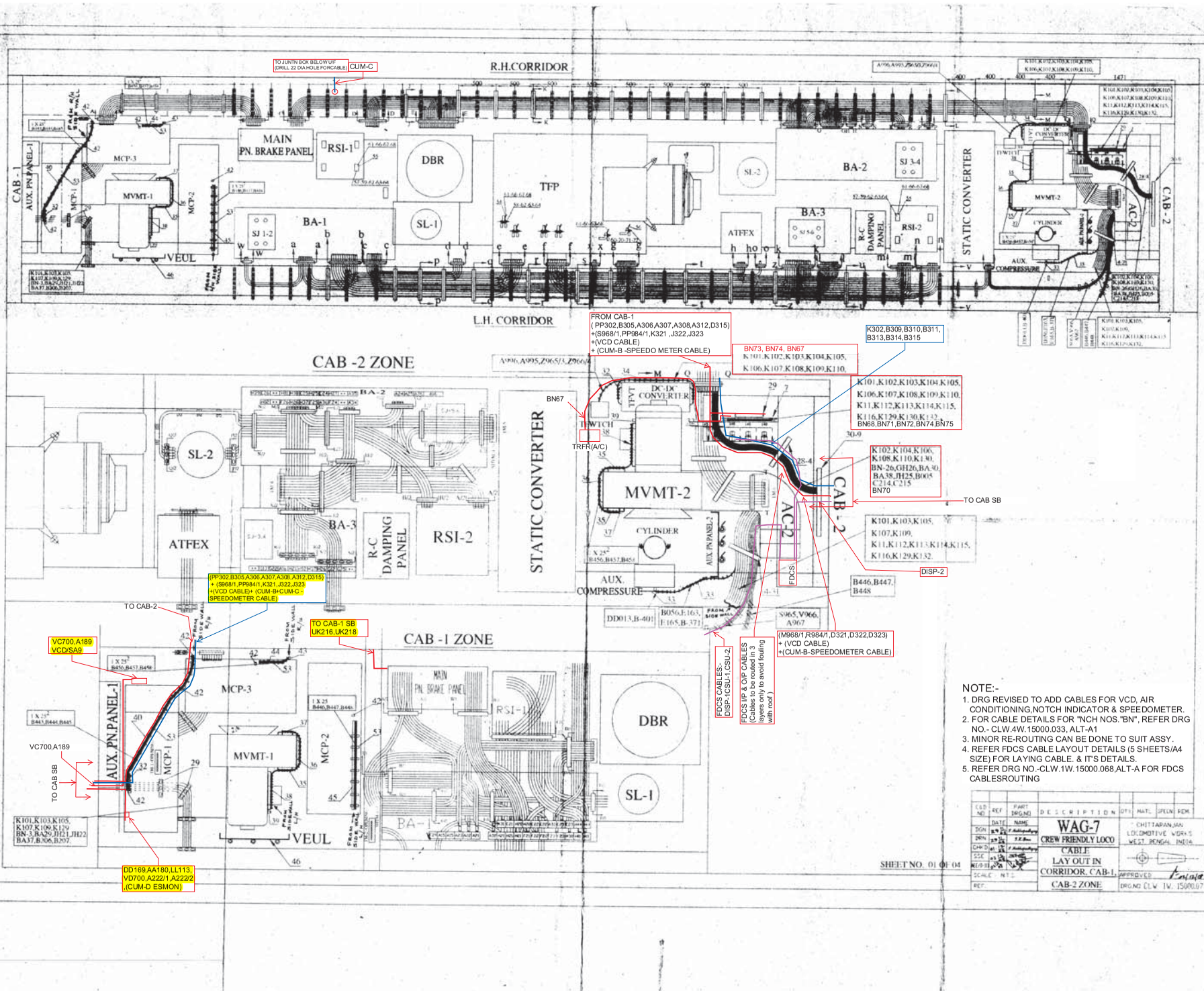
TITLE: GEN. LAYOUT UNDER DARRIAGE TO TM & INSIDE TO OUTSIDE THE LOCO. (SECTION DETAILS)

CARD CODE

DRAWING NO. 0 719 90 05 003 REV. 01

SHEET NO. 02 NO. OF SHEETS 02

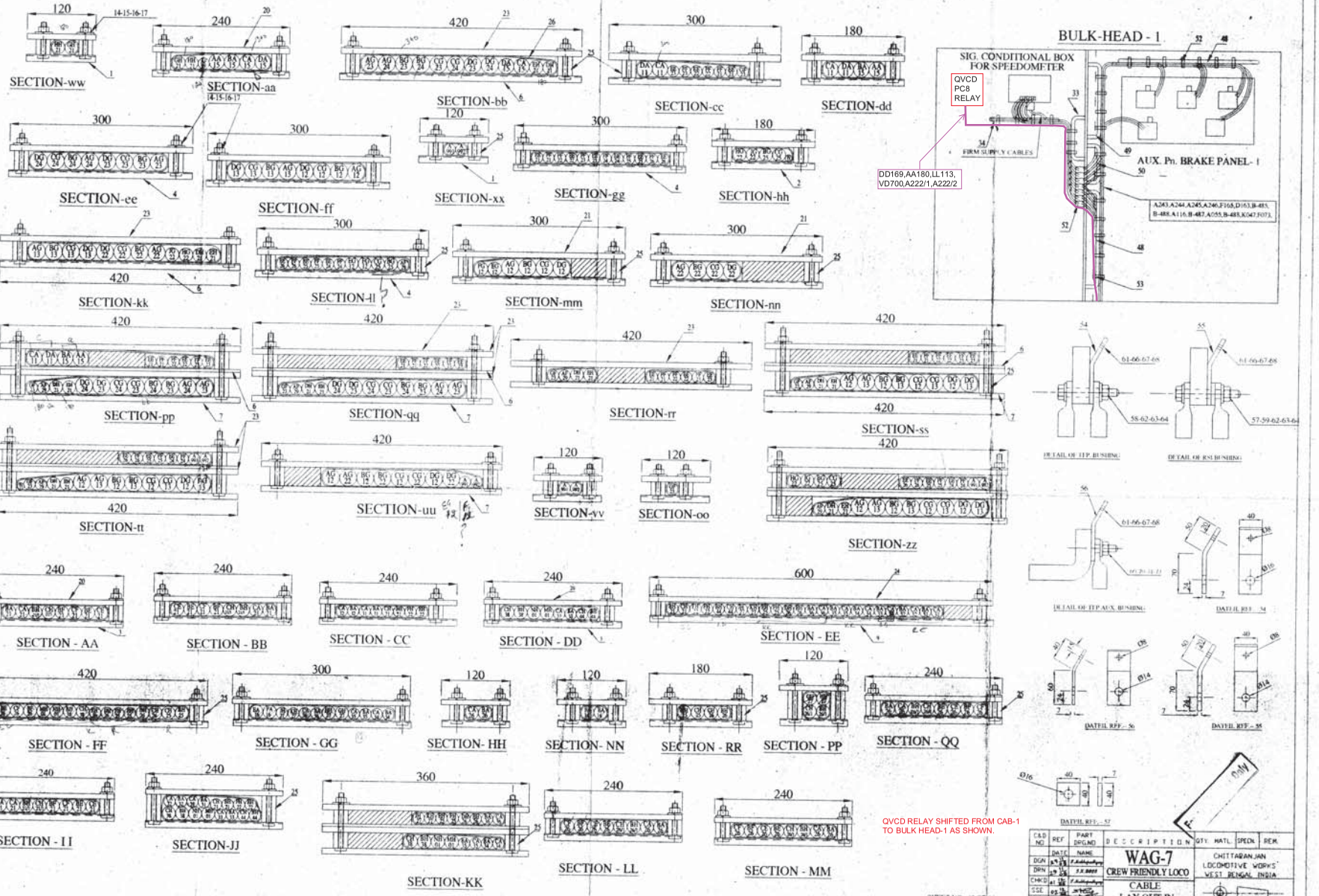
SIZE A0



NOTE:-

1. DRG REVISED TO ADD CABLES FOR VCD, AIR CONDITIONING,NOTCH INDICATOR & SPEEDOMETER.
2. FOR CABLE DETAILS FOR "NCH NOS."BN", REFER DRG NO.- CLW.4W.15000.033, ALT-A1
3. MINOR RE-ROUTING CAN BE DONE TO SUIT ASSY.
4. REFER FDCS CABLE LAYOUT DETAILS (5 SHEETS/A4 SIZE) FOR LAYING CABLE. & IT'S DETAILS.
5. REFER DRG NO.-CLW.1W.15000.068,ALT-A FOR FDCS CABLESROUTING

C&D NO	REF	PART DRG.NO	DESCRIPTION	QTY	MAT.	SPEN	REM.
	DATE	NAME	WAG-7 CREW FRIENDLY LOCO	CHITTARANJAN LOCOMOTIVE WORKS WEST BENGAL INDIA			
DSN			CABLE LAY OUT IN CORRIDOR, CAB-1, CAB-2 ZONE				
DRN							
CHKD							
SSE							
				APPROVED			
SCALE	NTS			DRG.NO CLW 1W. 15000.077			
REF.							


SECTION-ww
SECTION-aa
SECTION-bb
SECTION-cc
SECTION-dd
SECTION-ee
SECTION-ff
SECTION-xx
SECTION-gg
SECTION-hh
SECTION-kk
SECTION-ll
SECTION-mm
SECTION-nn
SECTION-pp
SECTION-qq
SECTION-rr
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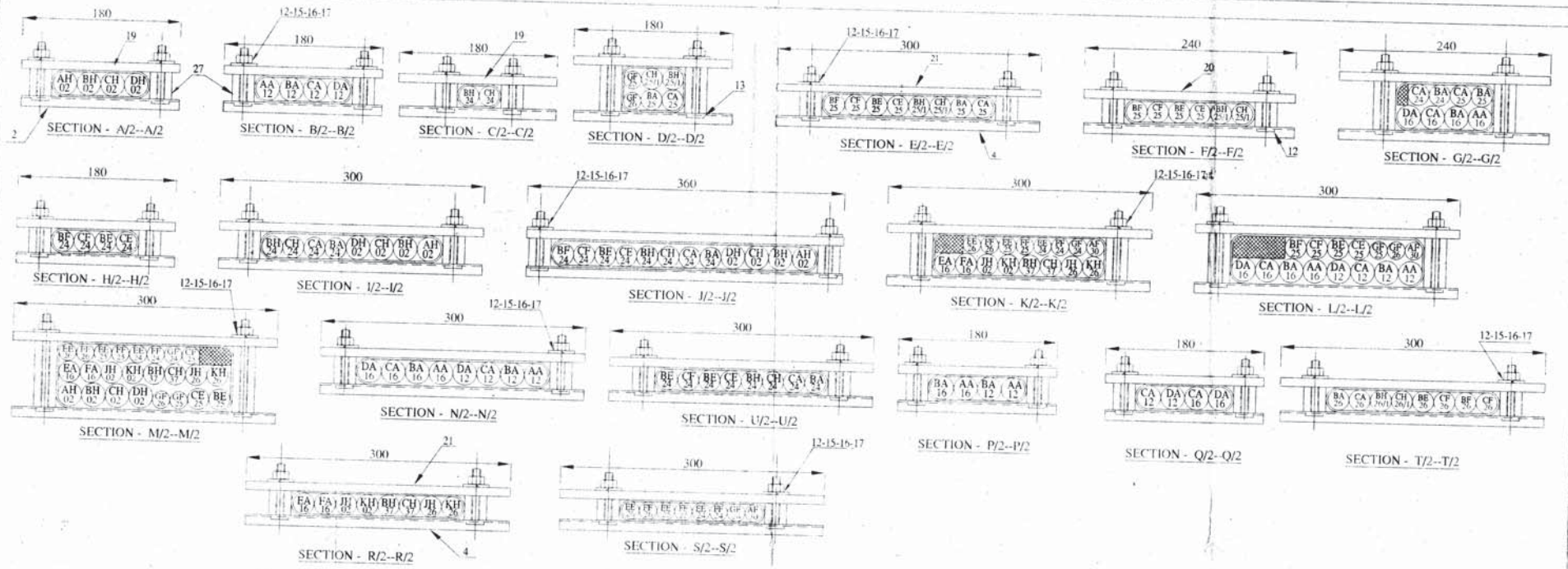
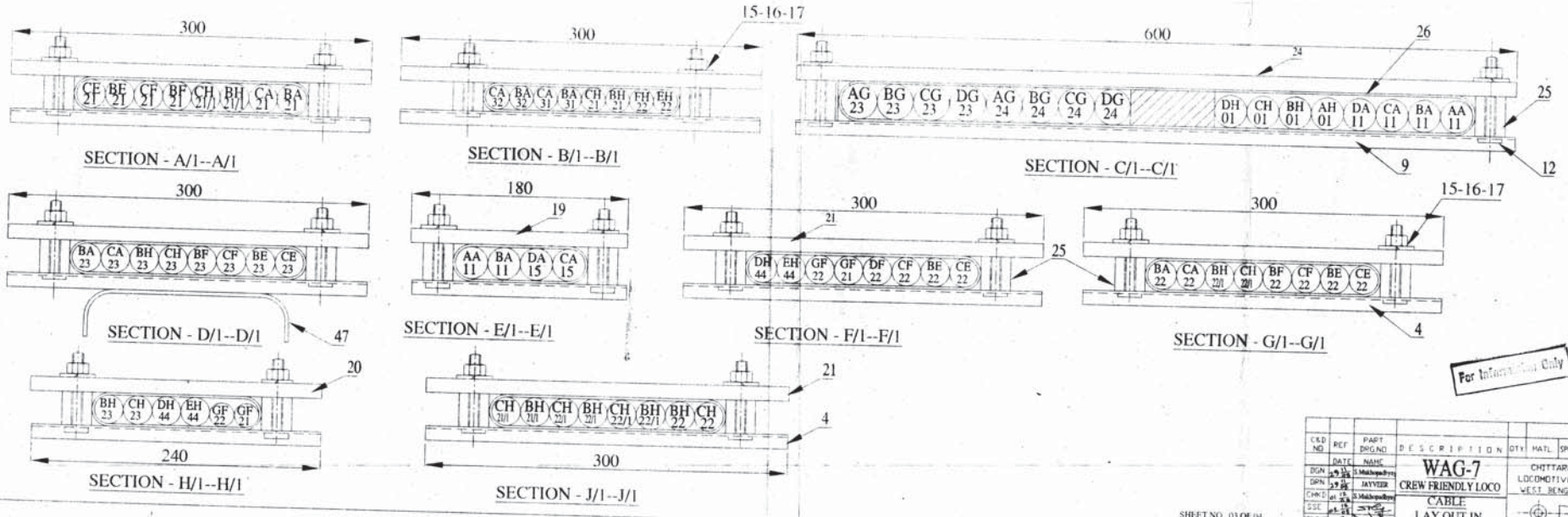
SECTION-tt
SECTION-uu
SECTION-vv
SECTION-oo
SECTION-zz
SECTION - AA
SECTION - BB
SECTION - CC
SECTION - DD
SECTION - EE
SECTION - FF
SECTION - GG
SECTION- HH
SECTION- NN
SECTION - RR
SECTION - PP
SECTION - QQ
SECTION - II
SECTION-JJ
SECTION-KK
SECTION - LL
SECTION - MM
BULK-HEAD - 1
SIG. CONDITIONAL BOX FOR SPEEDOMETER
QVCD PC8 RELAY
FIRM SUPPLY CABLES
AUX. Pn. BRAKE PANEL- 1
DD169,AA180,LL113, VD700,A222/1,A222/2
A243,A244,A245,A246,F165,D163,B-485, B-488,A116,B-487,A055,B-485,K047,F073,
DETAIL OF ITP BUSHING
DETAIL OF RSI BUSHING
DETAIL OF ITP AUX. BUSHING
DETAIL REF.- 54
DETAIL REF.- 56
DETAIL REF.- 55
DETAIL REF.- 57
QVCD RELAY SHIFTED FROM CAB-1 TO BULK HEAD-1 AS SHOWN.
WAG-7
CREW FRIENDLY LOCO
CABLE LAY OUT IN CORRIDOR, CAB-1, CAB-2 ZONE
CHITTARANJAN LOCOMOTIVE WORKS' WEST BENGAL INDIA
DRG NO. CLW/W 15000.077
SCALE N.T.S

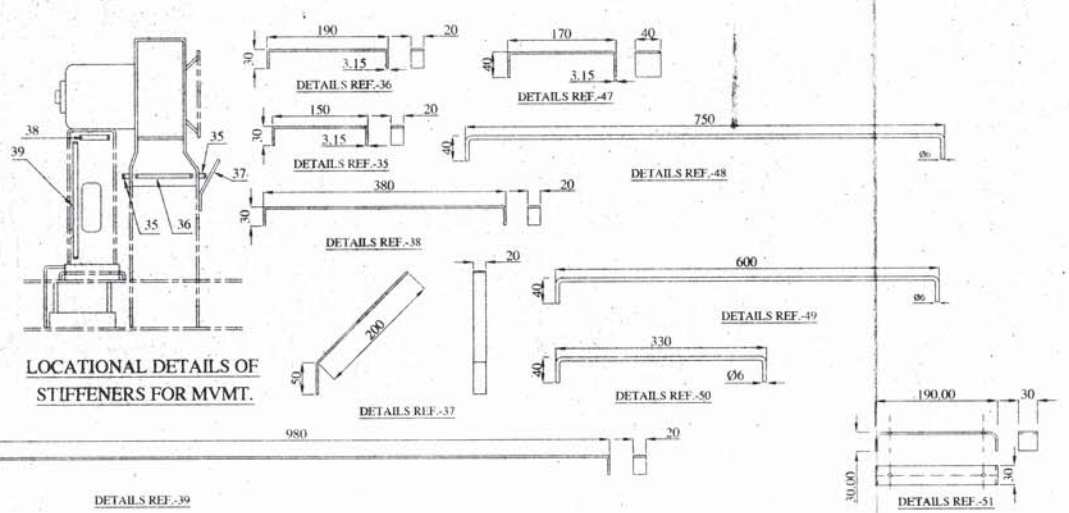




For Information Only

SHEET NO. 03 OF 04

CAD NO	REF	PART DRG NO	DESCRIPTION	QTY	MATL	SPECN	REM.
	DATE	NAME					
DGN		S.Mukherjee	WAG-7	CHITTARANJAN LOCOMOTIVE WORKS WEST BENGAL INDIA			
DRN		JAYVEER	CREW FRIENDLY LOCO				
CHKD		S.Mukherjee	CABLE LAY OUT IN CORRIDOR, CAB-1 CAB-2 ZONE				
SSE							
RDSO							
SCALE : N.T.S				APPROVED			
REF				DRG NO: CLW. LW. 15000.077			



ALT. NO.	AUTHORITY	DESCRIPTION	INITIAL	DATE
A	BHEL	A/C,FDCS,VCD,NOTCH INDICATOR,SPEEDO-METER ETC CABLES ADDED.	Umesh Kr	23.05.09

NOTE : -

1. ALL DIMENSIONS ARE IN MM.
2. ALL SLOTTED CHANNEL TO BE WELDED TO SUIT THE LOCATION.
3. ALL BRACKETS & STIFFENERS TO BE WELDED TO SUIT IN POSITION AS SHOWN IN THE DRG.
4. ALL BRACKETS & STIFFENERS TO BE PAINTED AFTER WELDING.
5. ALL STIFFENERS TO BE RAPPED WITH GLASS FIBER TAPE BEFORE CABLING.
6. THIS DRG. IS TO BE FOLLOWED FOR WAG-7 CREW FRIENDLY LOCOS ONLY.

For Information Only

C&D NO	REF	PART DRG NO	DESCRIPTION	QTY	MATL	SPECN	WT
	81						
	80						
	79						
	78	CLW/ES/3/0154/K	EXP. INSULATED TUBE 2295 PA	150 MTS			
	77	CLW/ES/1-15/I	HEAT SHRINKABLE SLEEVE TYPE-SA	20			
	76		3 LEGGED TAPE (25 mm. WIDE x 30/35 mm. THK. AGEL OF 05 mts.	15 NOS.		IS 2880/1979	
	75	CLW/ES/3/0131/B	CABLE TIE 338 x 7.6	300 NOS			
	74	CLW/ES/M/0154/K	SHRINK DOWN SLEEVE DTMS -3/16	900 NOS			
	73	SPEC NO-4 TMS.069.016	GLASS FIBRE TAPE (EOT) 18 MM THK. 32 MM	400			
	72		NUT HEX. M12	2	STEEL	IS. 1364	CAD. PLATD
	71		PLAIN WASHER M12	2	STEEL	IS. 2016	CAD. PLATD
	70		SPRING WASHER M12	2	SPG STEEL	IS. 3063	CAD. PLATD
	69	CLW/ES/I-16/A	INSULATING SCREEN PVC BLACK 35 mm DIA.1+0.2	5 MTS			
	68		NUT HEX. M6	12	STEEL	IS. 1364	CAD. PLATD
	67		PLAIN WASHER M6	12	STEEL	IS. 2016	CAD. PLATD
	66		SPRING WASHER M6	12	SPG STEEL	IS. 3063	CAD. PLATD
	65		SCREW HEX. HD.(SI) M14 x 40	12	STEEL	IS. 1364	CAD. PLATD
	64		NUT HEX. M14	36	STEEL	IS. 1364	CAD. PLATD
	63		PLAIN WASHER M14	36	STEEL	IS. 2016	CAD. PLATD
	62		SPRING WASHER M14	36	SPG STEEL	IS. 3063	CAD. PLATD
	61		SCREW HEX. HD. M6 x 40	12	STEEL	IS. 1364	CAD. PLATD
	60		SCREW HEX. HD. (TFP. AUX.) M12 x 50	2	STEEL	IS. 1364	CAD. PLATD
	59		SCREW HEX. HD. (RSI) M14 x 70	16	STEEL	IS. 1364	CAD. PLATD
	58		SCREW HEX. HD. (TFP) M14 x 90	8	STEEL	IS. 1364	CAD. PLATD
	57		CU- PACKING (RSI) 7 x 40 x 40 D/L	6	ELECT COPPER	IS. 1897	TINNED
	56		CU-LINK (AUX.BUSHING) 7 x 40 x 120 D/L	2	ELECT COPPER	IS. 1897	TINNED
	55		CU-LINK (RSI) 4 x 30 x 100 D/L	6	ELECT COPPER	IS. 1897	TINNED
	54		CU-LINK (TFP BUSHING) 7 x 40 x 120 D/L	4	ELECT COPPER	IS. 1897	TINNED
	53	CLW/ES/3/0131/B	CABLE TIE 360 x 4.8	100 NOS			
	52	CLW/ES/C-54	CABLE TIE TYPE-II	200 NOS			
	51		SB MOUNTING BRACKET SIZE 30 x 3.15 x 250 D/L	1	STEEL	IRS. M-41	PAINTED
	50		STIFFENER Ø6x 410 D/L	1	STEEL	IS. 2062	PAINTED
	49		STIFFENER Ø6x 680 D/L	1	STEEL	IS. 2062	PAINTED
	48		STIFFENER Ø6x 830 D/L	2	STEEL	IS. 2062	PAINTED
	47		BRACKET 3.15 x 40 x 250 D/L	1	STEEL	IRS. M-41	PAINTED
	46		STIFFENER Ø6x 610 D/L	1	STEEL	IS. 2062	PAINTED
	45		STIFFENER 3.15 x 20 x 950 D/L	1	STEEL	IRS. M-41	PAINTED
	44		STIFFENER 3.15 x 20 x 400 D/L	1	STEEL	IRS. M-41	PAINTED
	43		STIFFENER 3.15 x 20 x 330 D/L	1	STEEL	IRS. M-41	PAINTED
	42		STIFFENER 3.15 x 20 x 250 D/L	4	STEEL	IRS. M-41	PAINTED
	41		STIFFENER 3.15 x 20 x 190 D/L	1	STEEL	IRS. M-41	PAINTED
	40		STIFFENER 3.15 x 20 x 1000 D/L	1	STEEL	IRS. M-41	PAINTED
	39		STIFFENER 3.15 x 20 x 1040 D/L	2	STEEL	IRS. M-41	PAINTED
	38		STIFFENER 3.15 x 20 x 440 D/L	2	STEEL	IRS. M-41	PAINTED
	37		STIFFENER 3.15 x 20 x 250 D/L	2	STEEL	IRS. M-41	PAINTED
	36		STIFFENER 3.15 x 20 x 250 D/L	2	STEEL	IRS. M-41	PAINTED
	35		STIFFENER 3.15 x 20 x 210 D/L	4	STEEL	IRS. M-41	PAINTED
	34		STIFFENER Ø6 x 460 D/L	1	STEEL	IS. 2062	PAINTED
	33		STIFFENER Ø6 x 320 D/L	2	STEEL	IS. 2062	PAINTED
	32		STIFFENER Ø6 x 230 D/L	2	STEEL	IS. 2062	PAINTED
	31		BRACKET 40 x 3.15 x 720 D/L	1	STEEL	IRS. M-41	PAINTED
	30.		BRACKET 40 x 3.15 x 380 D/L	1	STEEL	IRS. M-41	PAINTED
	29		BRACKET 40 x 3.15 x 330 D/L	2	STEEL	IRS. M-41	PAINTED
	28		BRACKET 40 x 3.15 x 280 D/L	1	STEEL	IRS. M-41	PAINTED
	27	CLW/RSR-24	RUBBER SHEET 600 x 3	37 mts	RUBBER	IS. 568	
	26	CLW/RSR-24	RUBBER TAPE 50 x 2	80 mts	RUBBER	IS. 568	
	25	CLW/RSR-24	RUBBER SPACER 25 x 25 x 1000mm	50 pcs	RUBBER	IS. 368	
	24	CLW/SRBGF-19	SRBGF 600 x 40 x 10 THK	4	SRBGF	IS. 10192	
	23	CLW/SRBGF-19	SRBGF 420 x 40 x 10 THK	40	SRBGF	IS. 10192	
	22	CLW/SRBGF-19	SRBGF 350 x 40 x 10 THK	50	SRBGF	IS. 10192	
	21	CLW/SRBGF-19	SRBGF 300 x 40 x 10 THK	10	SRBGF	IS. 10192	
	20	CLW/SRBGF-19	SRBGF 240 x 40 x 10 THK	40	SRBGF	IS. 10192	
	19	CLW/SRBGF-19	SRBGF 180 x 40 x 10 THK	34	SRBGF	IS. 10192	
	18	CLW/SRBGF-19	SRBGF 120 x 40 x 10 THK	22	SRBGF	IS. 10192	
	17		SPRING WASHER M10	360	SPG STEEL	IS. 3063	CAD. PLATD
	16		PLAIN WASHER M10	120	STEEL	IS. 2016	CAD. PLATD
	15		NUT HEX. M10	40	STEEL	IS. 1364	CAD. PLATD
	14		T-HD. SCREW M10 x 150 LG	30	STEEL	IS. 2014	CAD. PLATD
	13		T-HD. SCREW M10 x 120 LG	100	STEEL	IS. 2014	CAD. PLATD
	12		T-HD. SCREW M10 x 87 LG	220	STEEL	IS. 2014	CAD. PLATD
	11	CLW/SSC-36	SLOTTED CHANNEL 640LG	2	STEEL	IS. 1079	PAINTED
	10	CLW/SSC-36	SLOTTED CHANNEL 780LG	9	STEEL	IS. 1079	PAINTED
	9	CLW/SSC-36	SLOTTED CHANNEL 600LG	4	STEEL	IS. 1079	PAINTED
	8	CLW/SSC-36	SLOTTED CHANNEL 540LG	5	STEEL	IS. 1079	PAINTED
	7	CLW/SSC-36	SLOTTED CHANNEL 480LG	35	STEEL	IS. 1079	PAINTED
	6	CLW/SSC-36	SLOTTED CHANNEL 420LG	15	STEEL	IS. 1079	PAINTED
	5	CLW/SSC-36	SLOTTED CHANNEL 360LG	49	STEEL	IS. 1079	PAINTED
	4	CLW/SSC-36	SLOTTED CHANNEL 300LG	32	STEEL	IS. 1079	PAINTED
	3	CLW/SSC-36	SLOTTED CHANNEL 240LG	52	STEEL	IS. 1079	PAINTED
	2	CLW/SSC-36	SLOTTED CHANNEL 180LG	58	STEEL	IS. 1079	PAINTED
	1	CLW/SSC-36	SLOTTED CHANNEL 120LG	25	STEEL	IS. 1079	PAINTED

C&D NO	REF.	PART DRG.NO	DESCRIPTION	QTY.	MATL	SPECN.	WT.

	DATE	NAME
DSN		
DRN		
CHKD		
SSE		
RDSO/I-II		

SCALE : N.T.S.
REF.

WAG-7
CREW FRIENDLY LOCO
CABLE LAY OUT IN CORRIDOR, CAB-1, AND CAB-2 ZONE

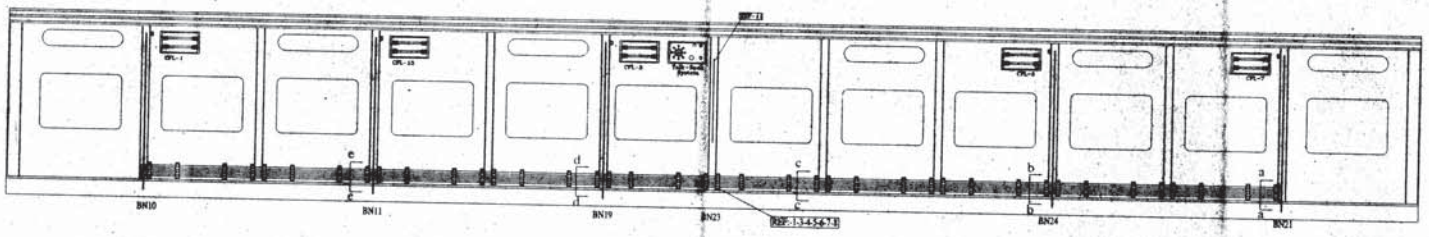
CHITTARANJAN LOCOMOTIVE WORKS
WEST BENGAL INDIA

APPROVED 6/04/08

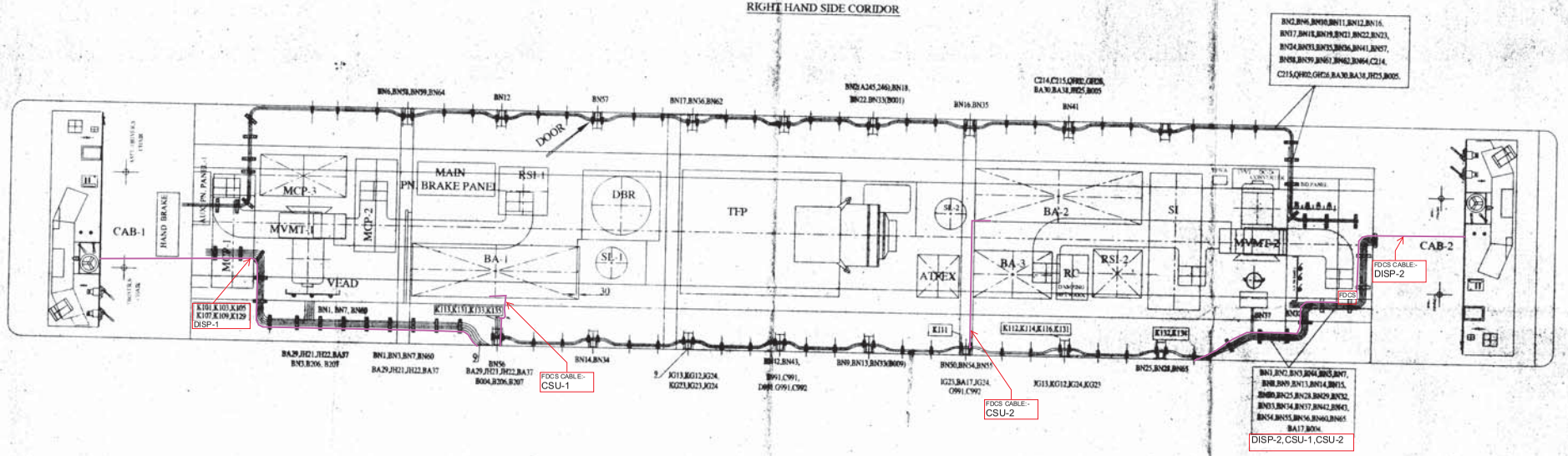
DRGNO: CLW/EW/15000.077

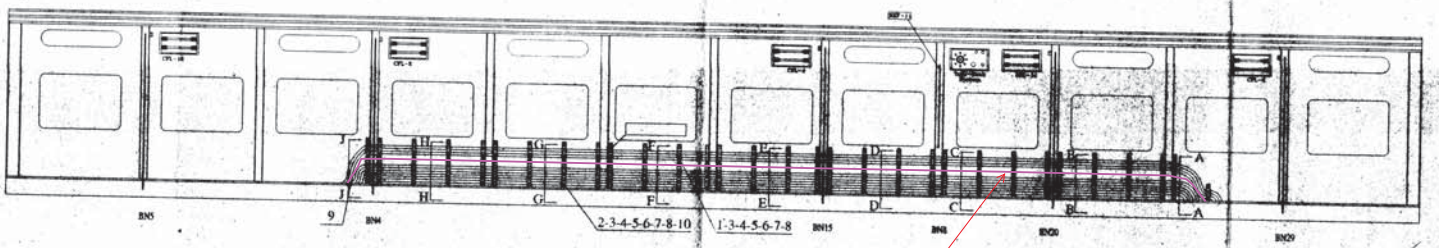
SHEET NO. 04 OF 04

ALT NO.	AUTHORITY	DESCRIPTION	INITIAL	DATE



RIGHT HAND SIDE CORIDOR





FDCS CABLES:- DISP-2,CSU-1,CSU-2

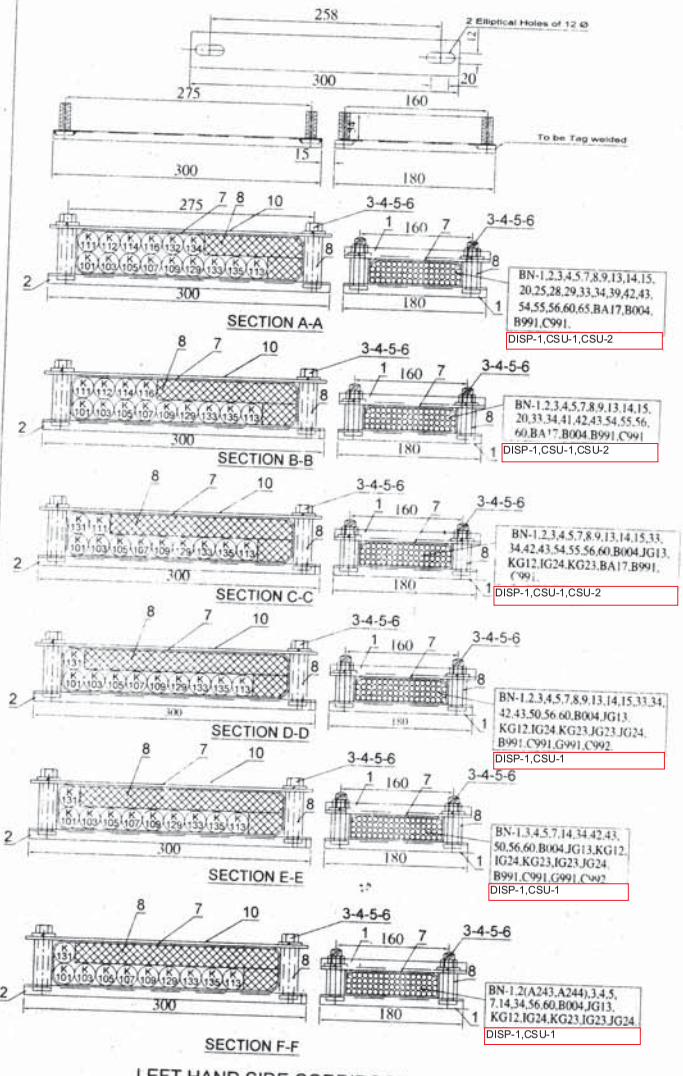
SHEET NO. 1 OF 2

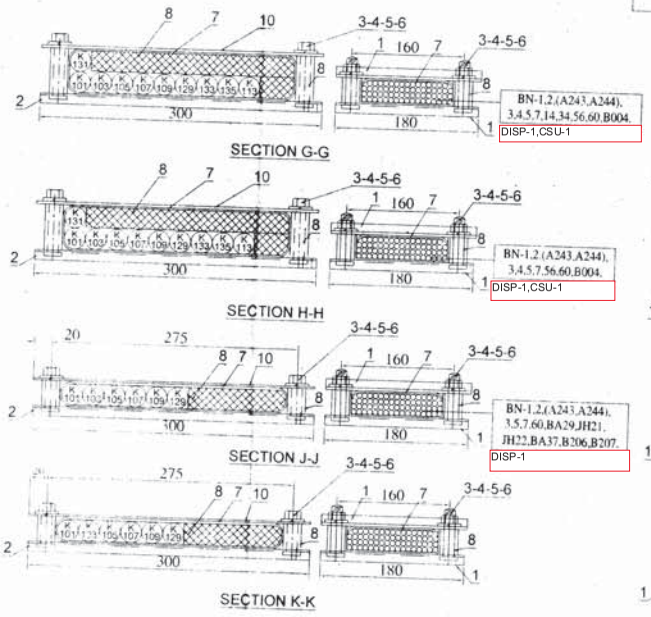
CAT NO	REF	PART DRG NO	DESCRIPTION	QTY	MATL	SPEC	WT
	DATE	NAME	WAG-7 CREW FRIENDLY LOCO				
DSN	M.OLOGAYVEER						
DRN			SIDE WALL CABLE LAYOUT				
CHKD							
SSD							
SCALE							
REV							

CHITTARANJAN LOCOMOTIVE WORKS WEST BENGAL INDIA

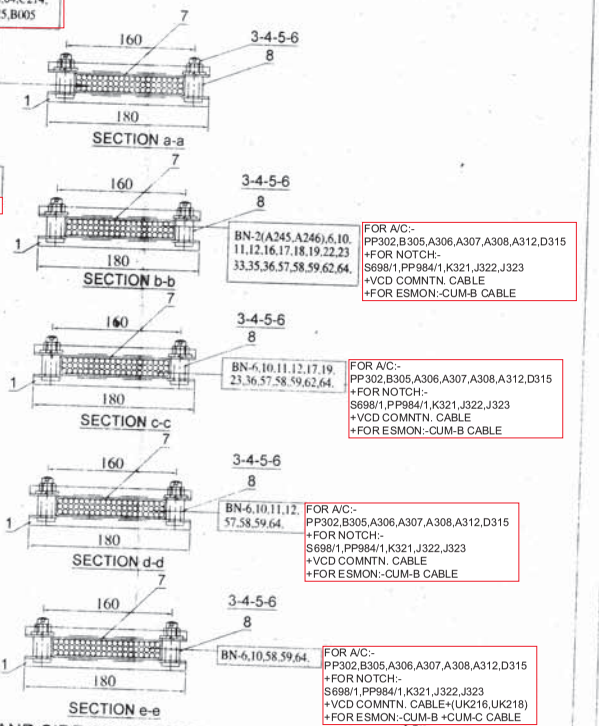
APPROVED

CLW/LY/ 35000/008





FOR A/C:-PP302,B305,A306,A307,A308,A312,D315
+FOR NOTCH:-S698/1,PP984/1,K321,J322,J323
+VCD COMNTN. CABLE
+FOR ESMON:-CUM-B CABLE
BN-2(A245,A246),6,10,11,12,16,17,18,19,22,23,24,30,33,35,36,41,57,58,59,61,62,64,C214,C215,QH02,GH26,BA30,BA38,JH25,B005



NOTE:-

1. FASTENING M10 T-BOLTS ON BOTH SIDE OF EVERY WELDED SLOTTED CHANNEL SHOULD BE TACK WELDED ON THE BACK SIDE FOR FASTENING / SUPPORTING THE CABLES AT THE TIME OF ERECTION.
2. ALL THE OUTGOING M/C & AUX-CONTROL CABLES SHOULD CROSS THROUGH OMEGA CHANNELS TO REACH THEIR RESPECTIVE POSITIONS.
3. ALL CABLES BUNCHES TO BE WRRAPED WITH RUBBER TAPE OF 600x3 mm. AT THE PLACE OF ENTERING IN TO CABLE TRENCH.
4. ALL CABLES BUNCHES TO BE WRRAPED WITH RUBBER TAPE OF 50x2 mm FOR PROTECTIONOF CABLE FROM SLOTTED CHANNEL.
5. THESE DRG. IS TO BE FOLLOWED FOR LOCO NO. HH 935 & ONWARDS IN ALL CREW FRIENDLY LOCOS.
6. THIS DRG. SUPERSEDES DRG. NO. CLW.1W.12000.059

ASSMLY C & D NO.

SHEET NO. 2 OF 2

SL NO	REF	PART DRG NO	DESCRIPTION	QTY	MATL SPEC'N	WT
15	CLW/ESC/B		CABLE TIE TYPE- III	100		
14	CLW/ESC/B		CABLE TIE TYPE- II	100		
13	CLW/ESC/30/52		EIT COVER-30/52	197 Mts.		
12	CLW/ESC/11/22		EIT COVER-11/22	186 Mts.		
11			STIFFENER Ø6x960 D/L	2	STEEL	IS:2062 Fe 410WA
10			PLATE 40x300x3.15	30	STEEL	IS:1079
9	CLW/ESR/2ND		RUBBER SHEET 600x3	2m	RUBBER	
8	CLW/ESR/2ND		RUBBER SPACER 25 x 25	22m	RUBBER	IS:396
7	CLW/ESR/2ND		RUBBER TAPE 50 x 2	60m	RUBBER	IS:369
6			NUT HEX. M10	276	STEEL	IS:1364 5.6
5			SPRING WASHER M10	276	SPG STEEL	IS:3063
4			PLAIN WASHER M10	276	STEEL	IS:2016
3			TEE HD. SCREW M10 x 54	276	STEEL	IS:2016
2	CLW/ESC/60B		SLOTTED CHANNEL 300 LG.	30	STEEL	IS:1079
1	CLW/ESC/60B		SLOTTED CHANNEL 180 LG.	216	STEEL	IS:1079

DRN	JAYVEER
CHKD	
SSN	
APPD	
SCALE :	
REF:	

WAG-7
CREW FRIENDLY LOCO
SIDE WALL CABLE LAYOUT

CHITTARANJAN LOCOMOTIVE WORKS
WEST BENGAL INDIA

APPROVED
DRG.NO CLW.1W. 15000.068