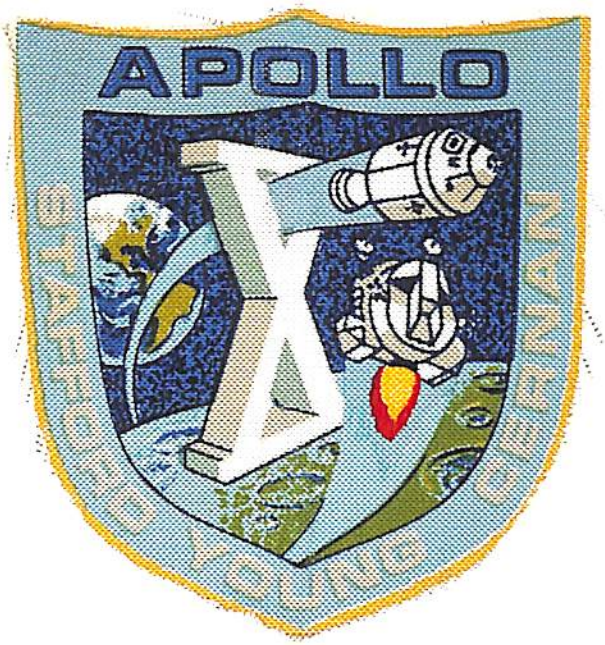


APOLLO 10	
CSM RENDEZVOUS	
PART NO	S/N
SKB32100079-352	1002

EXTERNAL DV PADS

CSM SEP PAD

33	00 :	000 :	0 .			
81	+	0000.0	+	0000.0	-	0002.5
22	XXX		XXX		XXX	

CSM BACKUP INSERTION PAD INITIAL

47	+	.	+	00000.		
48		.		.		
33	00 :	000 :	0 .			
81		.		.		.
22	XXX		XXX		XXX	
ΔV_C	X	.				
11	00 :	000 :	0 .			
37	00 :	000 :	0 .			
N						

CSM BACKUP INSERTION PAD UPDATE

47	+	.	+	00000.		
48		.		.		
33	00 :	000 :	0 .			
81		.		.		.
22	XXX		XXX		XXX	
ΔV_C	X	.				
11	00 :	000 :	0 .			
37	00 :	000 :	0 .			
N						

NOMINAL IGNITION TIMES

CSI 11	00 103 :	000 45 :	0 34 .
PC 33	00 :	000 :	0 .
TPI 37	00 105 :	000 24 :	0 01 .

N = 1

RESCUE TWO PAD

47	+	.	+	00000.		
48		.		.		
33	00 :	000 :	0 .			
81		.		.		.
22	XXX		XXX		XXX	
ΔV_C	X	.				
11	00 :	000 :	0 .			
37	00 :	000 :	0 .			
N						

CANNED RESCUE TWO PADS FOR:

1. LM PDI ABORT
2. PARTIAL PHASING (0 - 40)
3. PARTIAL PHASING (40 - NOM)
4. ZERO INSERTION
5. PARTIAL INSERTION

ARE INCLUDED ON RESCUE CHECKLISTS

CSM RENDEZVOUS RESCUE PADS

CSI ONE

11	00 :	000 :	0 .			
81		.		.		.
N						

CSI TWO

11	00 :	000 :	0 .			
81		.		.		.
N						

CDH

13	00 :	000 :	0 .			
81		.		.		.

TPI

37	00 :	000 :	0 .			
81		.		.		.
59		.		.		.
LOS BT	XX :		XX :		XX :	

97:00 CONTINGENCY EVA PREP

POO; MCC-H UPLINK RLS
AND CSM VECTOR
V66
COPY: CSM SEP PADS
DONN HELMET AND GLOVES
CSM/LM COMM CHECK
VHF AM A - SIMPLEX
VHF RCV ONLY - B DATA

97:10

MIN DB FOR LM RCS COLD FIRE CHECKS

M
S
F
N

DISABLE CSM ROLL JETS
MAX DB FOR LM RCS HOT FIRE CHECKS
ENABLE CSM ROLL JETS

97:20

VERIFY AUTO RCS SEL-C4(-PITCH-X)-OFF
VERIFY AUTO RCS SEL-B3(+YAW-X)-OFF FOR LM
RR SELF TEST
VERIFY RNDZ XPNDR-OFF

L
O
S

97:30

18

97:30 CONFIGURE CAMERA:
CM/SEQ/18/CEX-BRKT (RH WIN)
MIR (f11,250,00) 6FPS,15 MIN

DAP (21112) (+37768) (-00052)
V46 (11111) (+30847) (+00059)

GND 47	+	.	+	.
UPDATE 48		.		.

97:40 V62
V49;AUTO TO UNDOCKING ATTITUDE (180, 282/14,14)
(INERTIAL SEP ATT EXCEPT ROLL AND 14° YAW)

UNDOCK GET	98:	10:	00
LOAD 22	180	14	14

SC CONT-CMC
CMC MODE-FREE (AS REQ FOR AGS CALIB)
CMC MODE-AUTO (AFTER 32 SEC)
VERIFY MAX DB FOR AGS CALIB
SYSTEMS CHECKS AND SWITCH VER

97:50 YAW 14° LEFT AFTER LM AGS
CALIB (180,312/14,0)

RR XPNDR CHECKS:

RNDZ XPNDR ACTIVATION & SELF TEST
cb RNDZ XPNDR FLT BUS - close (verify)
RNDZ XPNDR - HTR for 24 min
(1 min if self test only)
RNDZ XPNDR - PWR
SYS TEST (lh) - XPNDR — SYSTEST OPS
SYS TEST (rh) - A (RRT XMTR OUT PWR)
SYS TEST ind - >1 vdc — 3.7 → 4.2
SYS TEST (rh) - B (RRT AGC SIG)
RNDZ XPNDR - TEST (hold)
98:00 SYS TEST ind - >1 vdc — SYS TEST ONLY 1.8→2.2

RNDZ XPNDR - OPERATE
SYS TEST ind - 0 - 4.5 vdc
SYS TEST (rh) - C (RRT FREQ LOCK)
SYS TEST ind - <.8 vdc unlocked, >4 vdc locked
SYS TEST (rh) - B

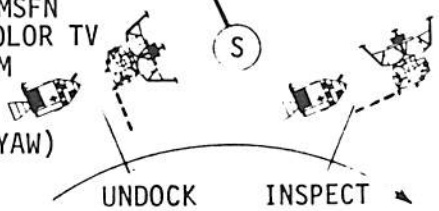
(R=Ṙ=0)(IF NOT; V66)
GDC ALIGN
ORDEAL (V83)

SC CONT-SCS; DAP (11102 / 11111) ;V46 0-USE B/D 1-USE A/C

240° ROLL OPTIMUM FOR SHADE AND MSFN

98:10 -25 UNDOCKING (98:10:00) (180, 12/14, 0)

AUTO RCS SEL - B3; C4-MNA
DV CG-CSM
RR XPNDR-PWR(VERIFY)
ROLL LEFT 180°(2°/SEC) (0,50/14,0)
V64; ACQ MSFN
PHOTOS; COLOR TV
INSPECT LM



(LM 360° YAW)

AOS

98:20 -15

-12 -45 P 351 Y

MSFN

98:30

COPY PADS

	-71.1	0	-.3	
84	-69.9	.0	-13.8	DOI P76
33	99 :	46 :	00.89	(20)
	170.4	0	-95.6	
84	+166.6	.0	-59.4	PHASING
33	100 :	58 :	25.20	P76 (32)
	96.2	0	0	
84	+93.1	.0	+7.2	PDI ABORT
33	100 :	43 :	46.50	P76 (4)

DAP (11102 / 01111) ;V46;SC CONT-CMC

-19-

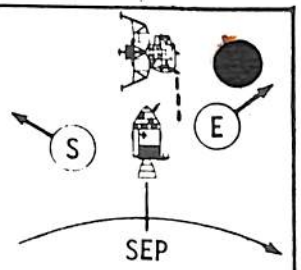
98:30 -5 -3 0 98:40 98:50 99:00

MSFN

P P
Y Y

* * * * * *
P30 (LOAD VGZ=-2.5)
* * * * * *

P41 (TRIM)
RCS

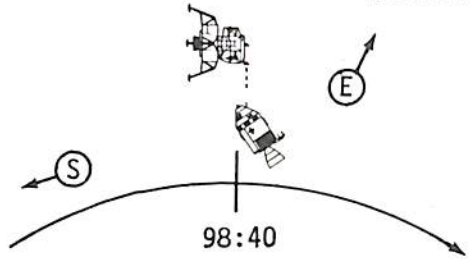


47

CSM SEP (98:35:16) (0, 0, -2.5)
(THRUST AFT) (0, 90/14, 0)
(BURN VGX 2.5 → 5.0)

P20 (AUTO 40°)(0,145/55,0)
VHF ANT-RT
VHF AM B - DUPLEX/RANGING
LM RR CHECKS
EMS VHF AND V83 RANGE
OPTICS CHECKS

98:45
R = 0.2
Ṙ = 2.8



P52 (OPTION 3)

05	40	ID1
93	42	ID2
	35	ID3

99:00

GDC ALIGN
ORDEAL (V83)

-29

POO; MCC-H UPLINK CSM AND
LM VECTORS

99:05
R = 0.9
Ṙ = 4.2

99:10

MSFN

VHF AM A-SIMPLEX/DATA

99:20

99:20
R = 1.5
Ṙ = 3.0

-11

LOS

99:37

IF NO DSE NOTION AT LOS:
GO CMD RESET; THEN NORMAL

-6

P20 (AUTO 55°)(0,206/332,0)

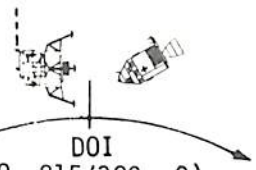
99:30

99:30

CONFIRM
VHF A/DATA
LBR,FWD

-2

P76 LOAD



46:02

0

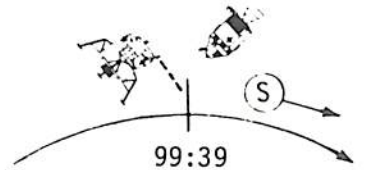
LM DOI (99:33:59)(-71.1,0,-.3)

VHF RCV ONLY-OFF
VHF AM B-DUPLEX/RANGING
COMPUTE RDOT FOR LM
CONFIRM LM DOI
P76(20); V82(LM)(10 x 60)

99:36
R = 3.1
Ṙ = 71.8

P20 (TRIM)(0,227/317,0)
V87
V16 N02
V46E

99:40



-63

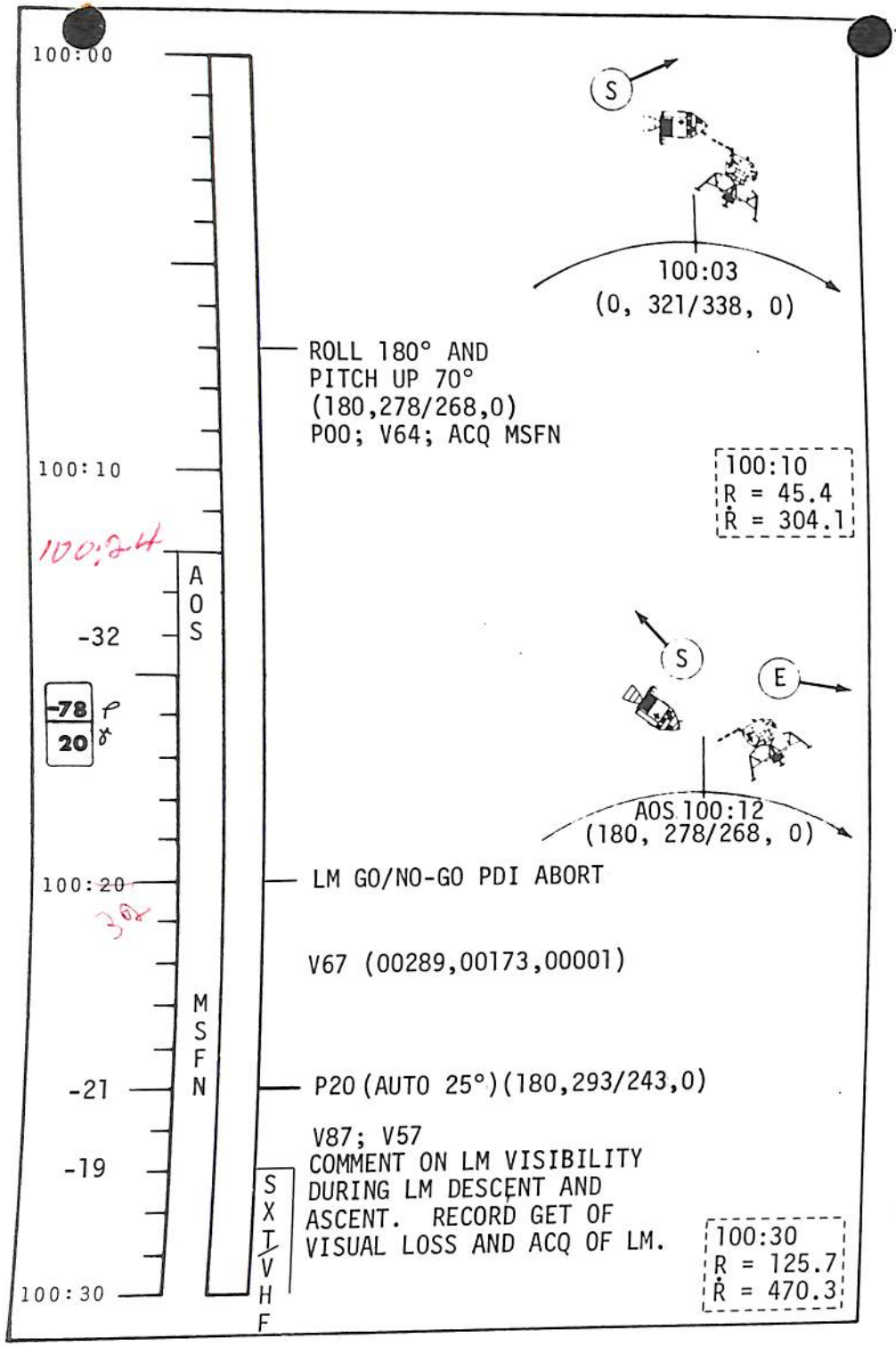
OPTICS TRACK

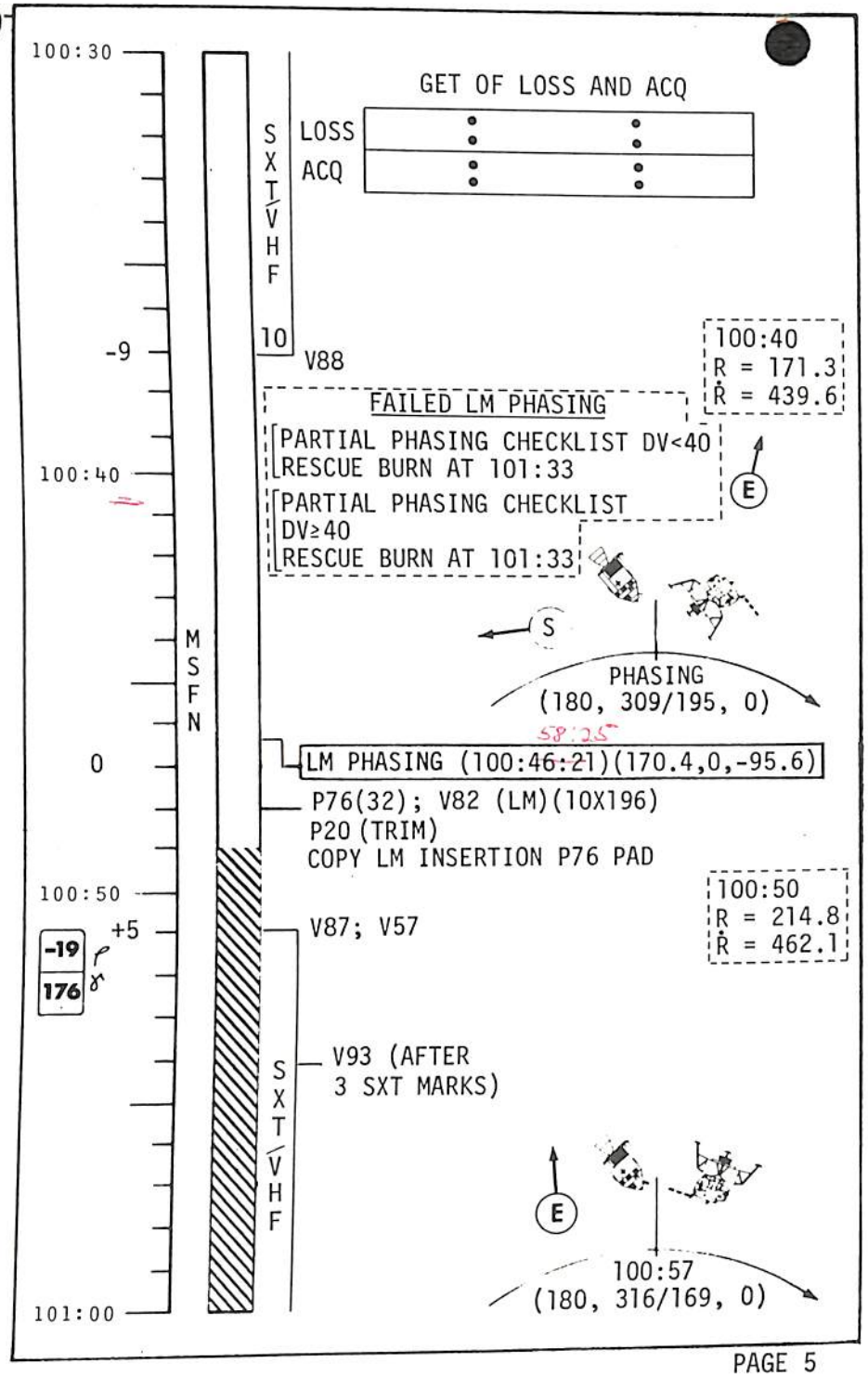
99:47
R = 8.6
Ṙ = 62.3

99:50

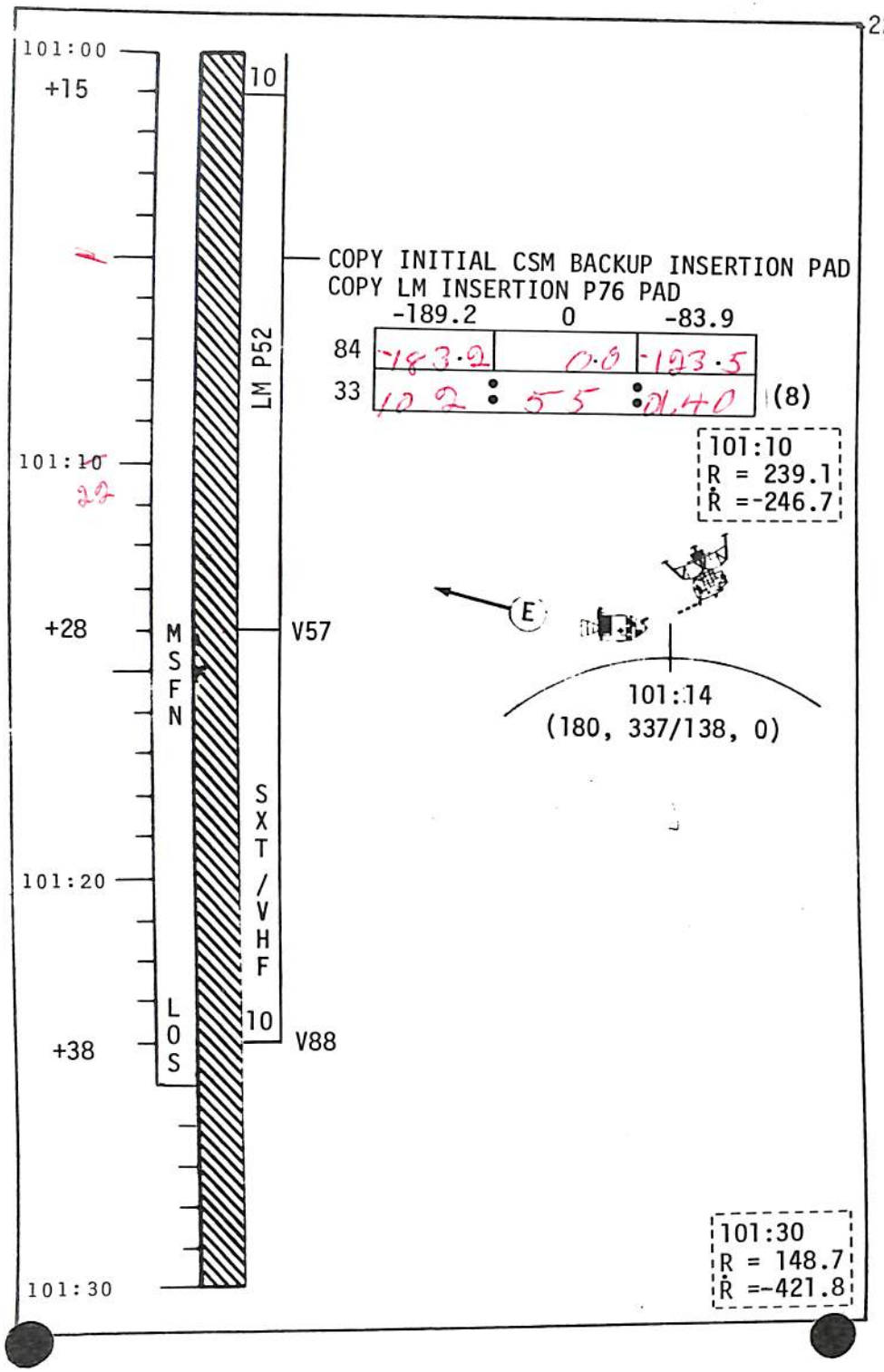
100:00
R = 22.6
Ṙ = 159.5

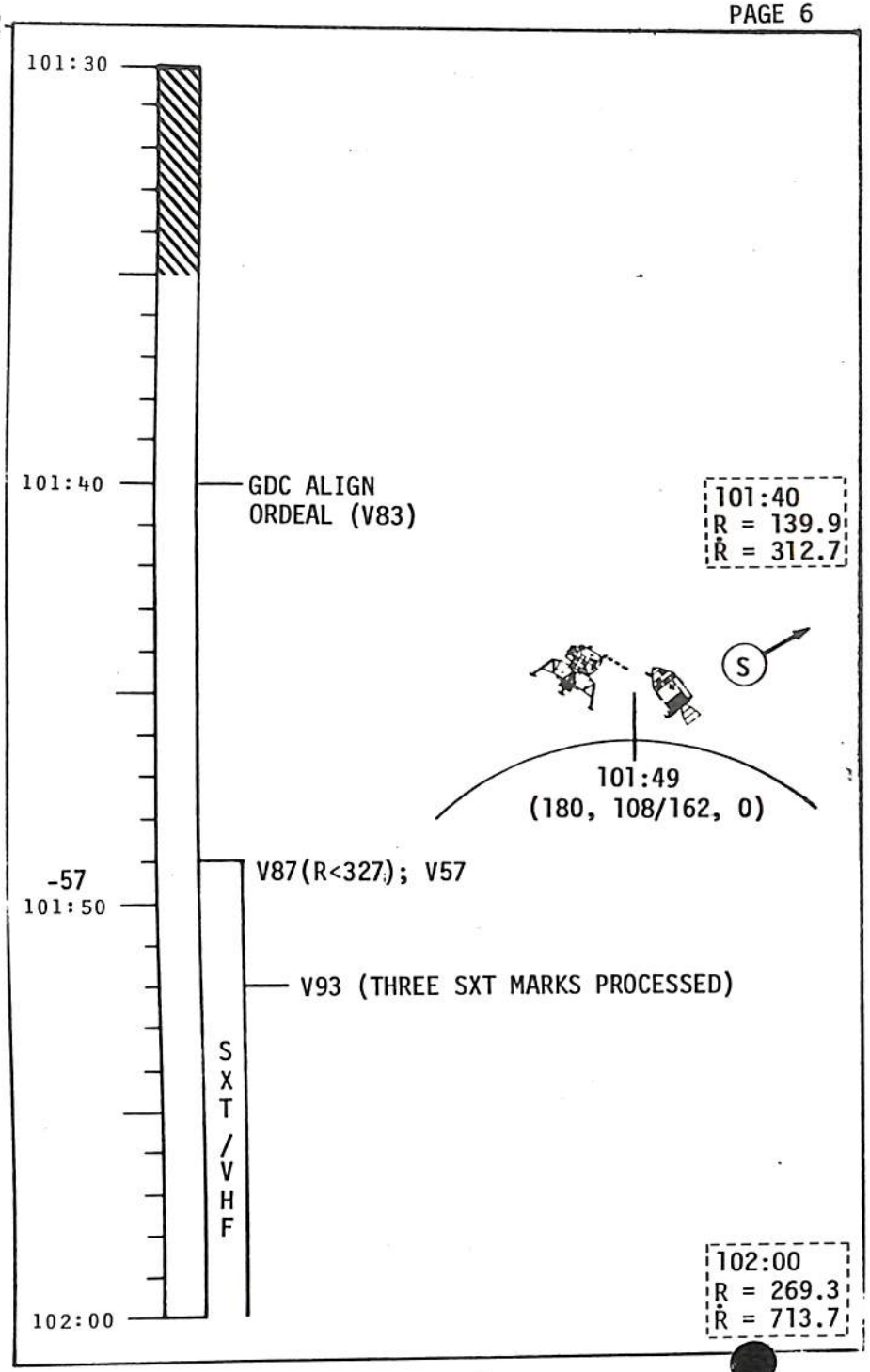
100:00

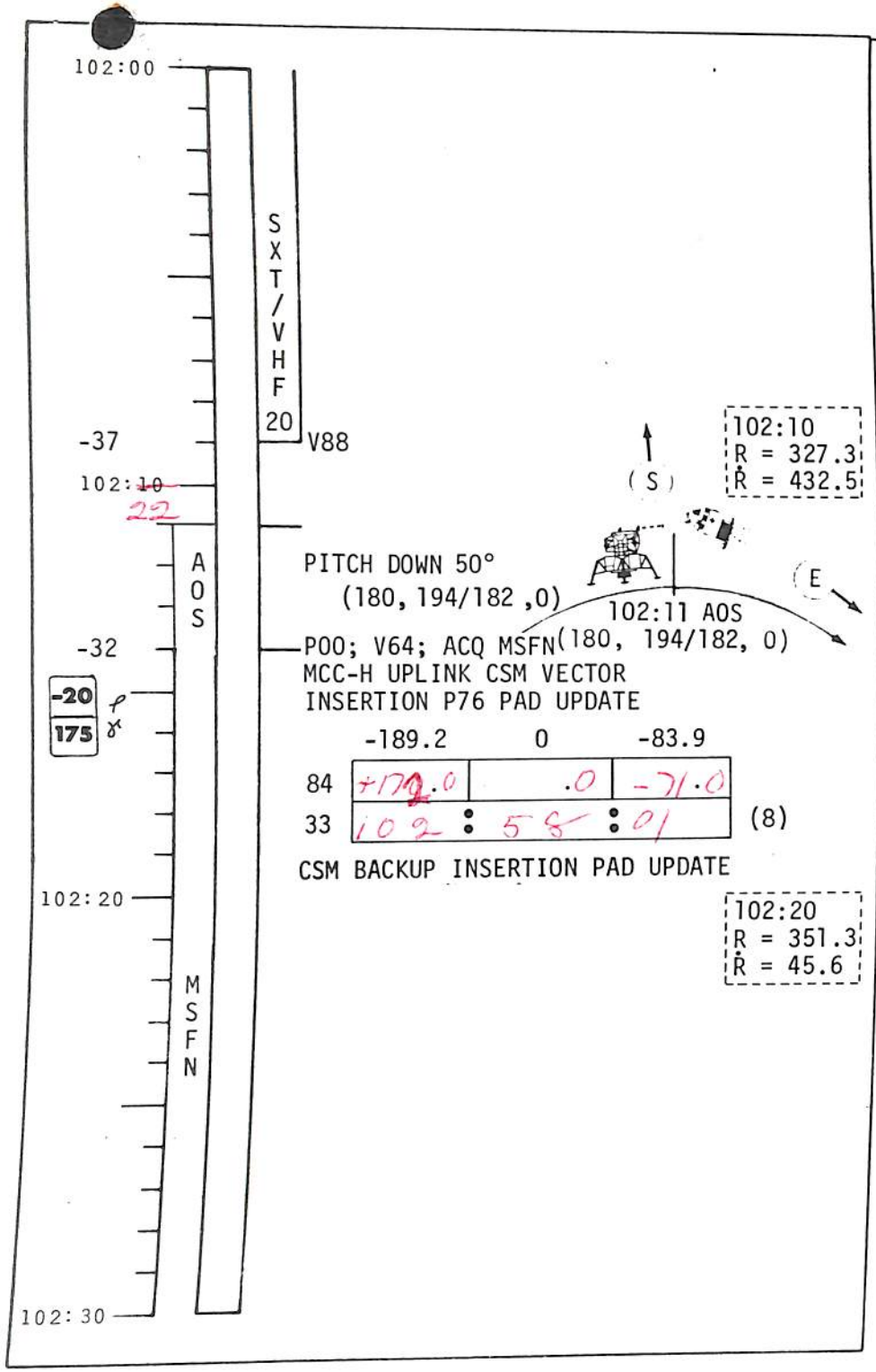

100:00
100:10
100:24
-32
-78
20
100:20
-21
-19
100:30
AOS
MSFN
SXT/VHF
S
100:03
(0, 321/338, 0)
ROLL 180° AND
PITCH UP 70°
(180,278/268,0)
P00; V64; ACQ MSFN
100:10
R = 45.4
Ṙ = 304.1
S
E
AOS 100:12
(180, 278/268, 0)
LM GO/NO-GO PDI ABORT
V67 (00289,00173,00001)
P20 (AUTO 25°)(180,293/243,0)
V87; V57
COMMENT ON LM VISIBILITY
DURING LM DESCENT AND
ASCENT. RECORD GET OF
VISUAL LOSS AND ACQ OF LM.
100:30
R = 125.7
Ṙ = 470.3

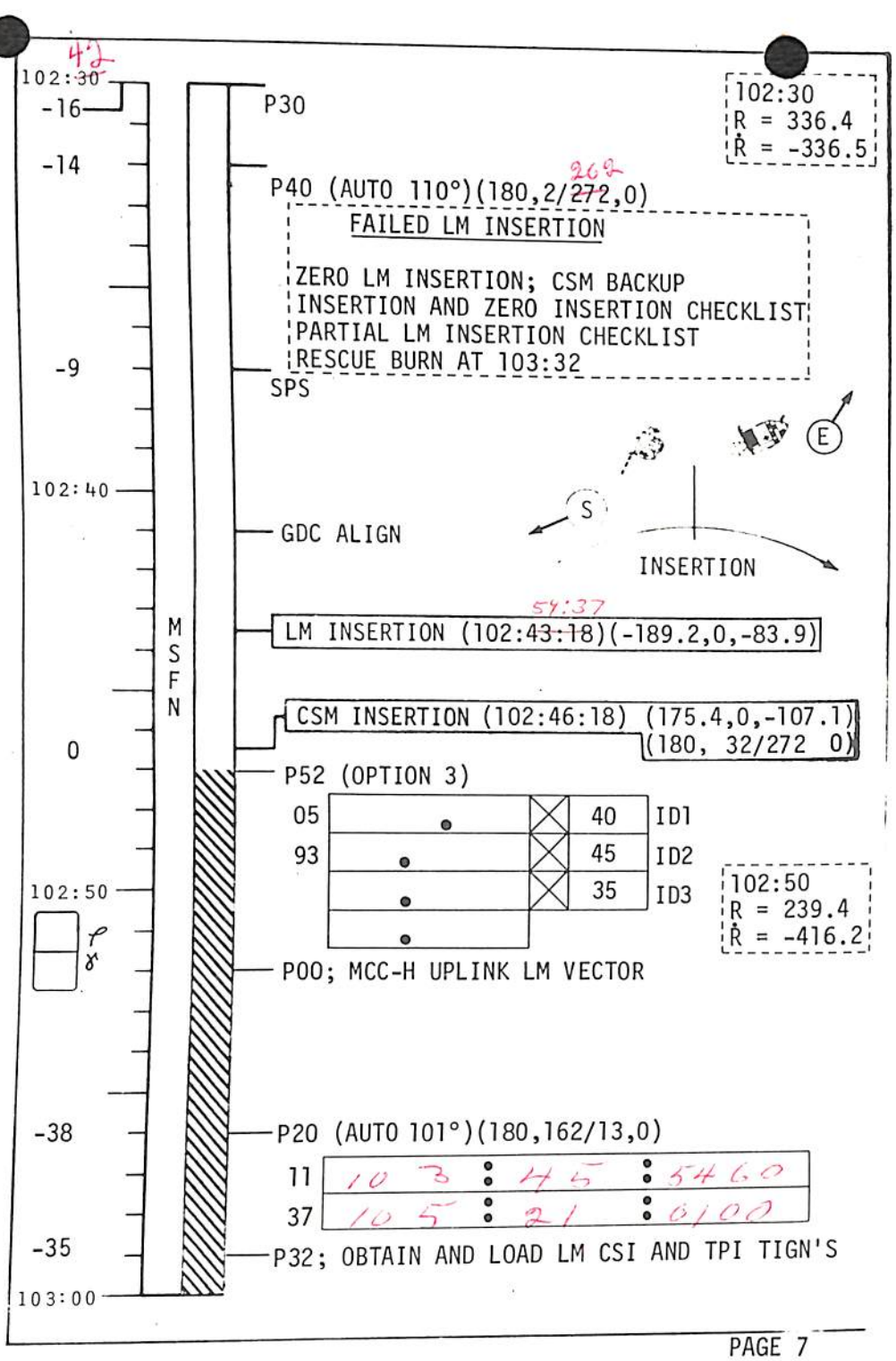

100:30
-9
100:40
0
100:50
+5
-19
176
101:00
MSFN
SXT/VHF
GET OF LOSS AND ACQ
LOSS
ACQ
10
V88
100:40
R = 171.3
Ṙ = 439.6
FAILED LM PHASING
PARTIAL PHASING CHECKLIST DV<40
RESCUE BURN AT 101:33
PARTIAL PHASING CHECKLIST
DV≥40
RESCUE BURN AT 101:33
E
S
PHASING
(180, 309/195, 0)
LM PHASING (100:46:21)(170.4,0,-95.6)
P76(32); V82 (LM)(10X196)
P20 (TRIM)
COPY LM INSERTION P76 PAD
100:50
R = 214.8
Ṙ = 462.1
V87; V57
V93 (AFTER
3 SXT MARKS)
E
100:57
(180, 316/169, 0)

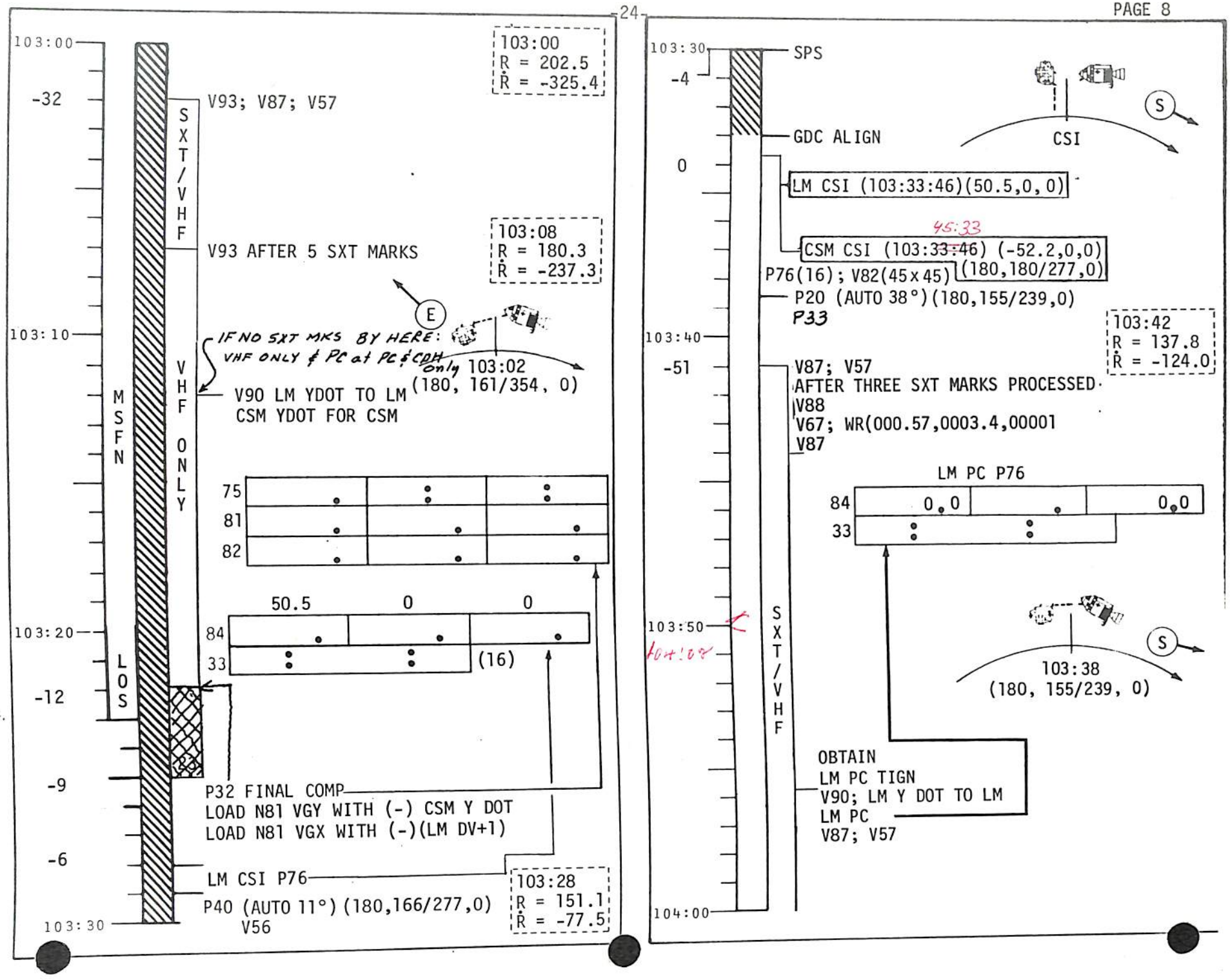
22

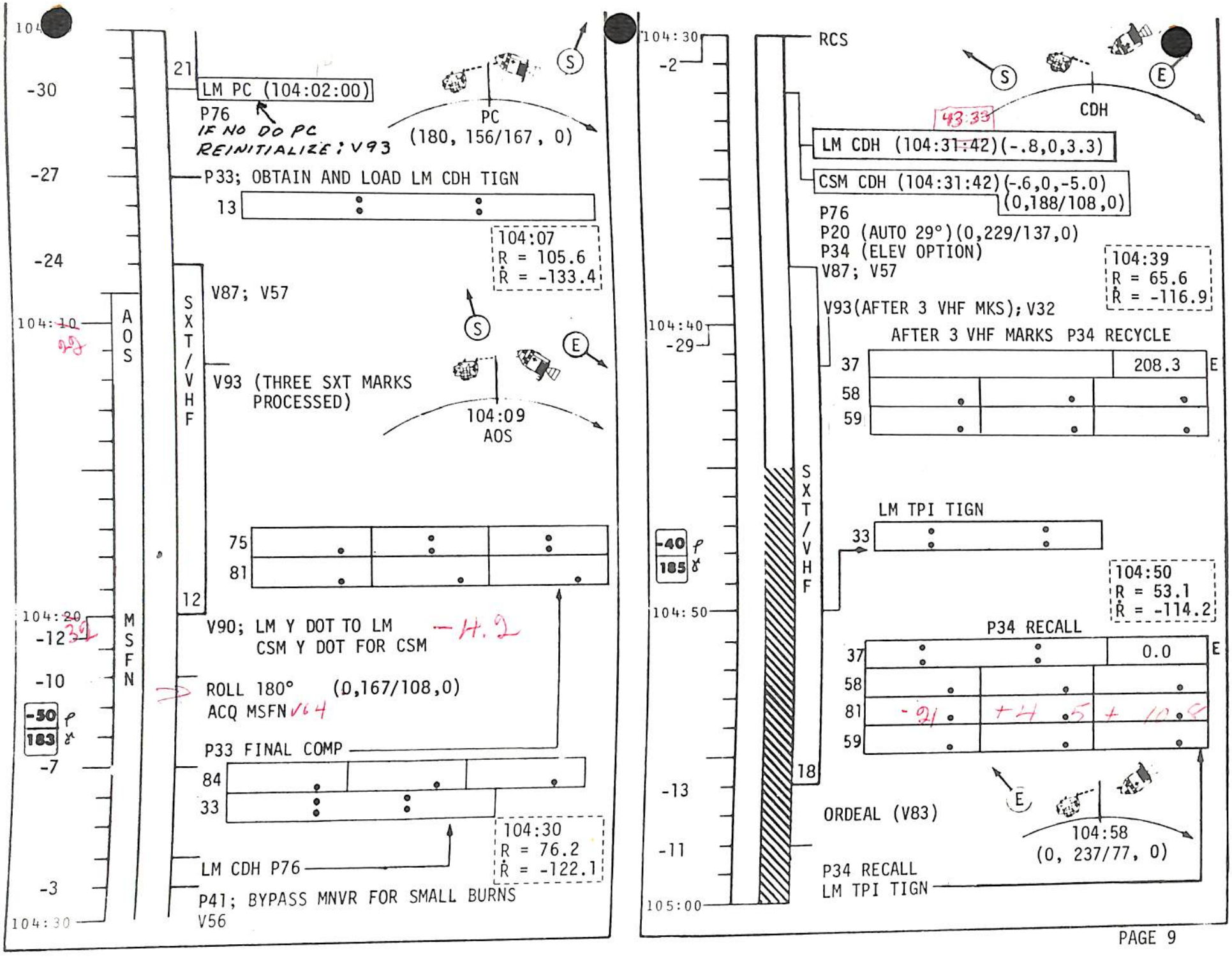

101:00
+15
101:10
+28
101:20
+38
101:30
MSFN
LOS
LM P52
10
SXT/VHF
10
V57
V88
COPY INITIAL CSM BACKUP INSERTION PAD
COPY LM INSERTION P76 PAD
-189.2
0
-83.9
84
-183.2
0.0
-123.5
33
102:55:01.40
(8)
101:10
R = 239.1
Ṙ =-246.7
E
101:14
(180, 337/138, 0)
101:30
R = 148.7
Ṙ =-421.8

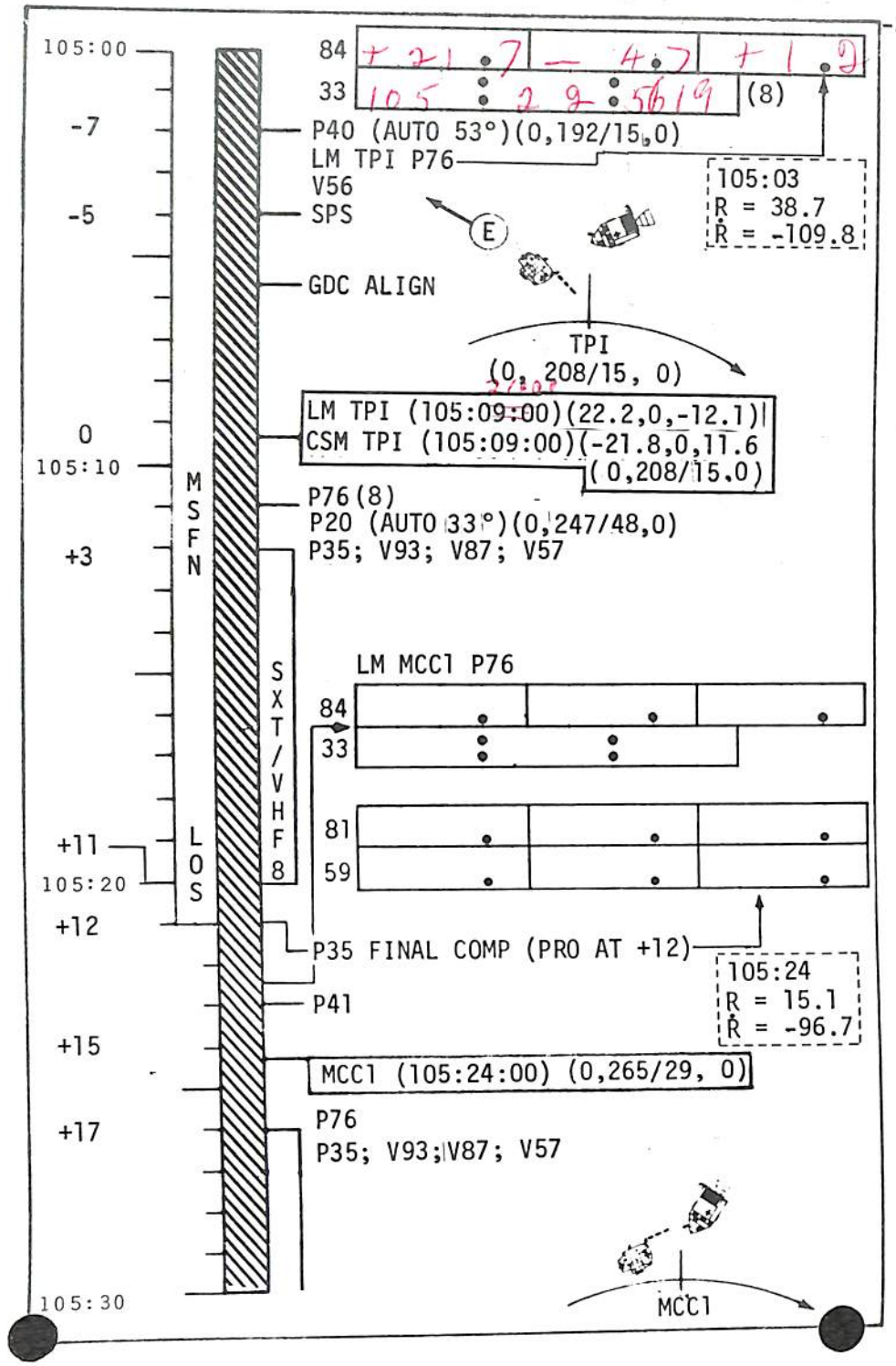

101:30
101:40
GDC ALIGN
ORDEAL (V83)
101:40
R = 139.9
Ṙ = 312.7
S
101:49
(180, 108/162, 0)
-57
101:50
V87(R<327); V57
V93 (THREE SXT MARKS PROCESSED)
SXT/VHF
102:00
102:00
R = 269.3
Ṙ = 713.7

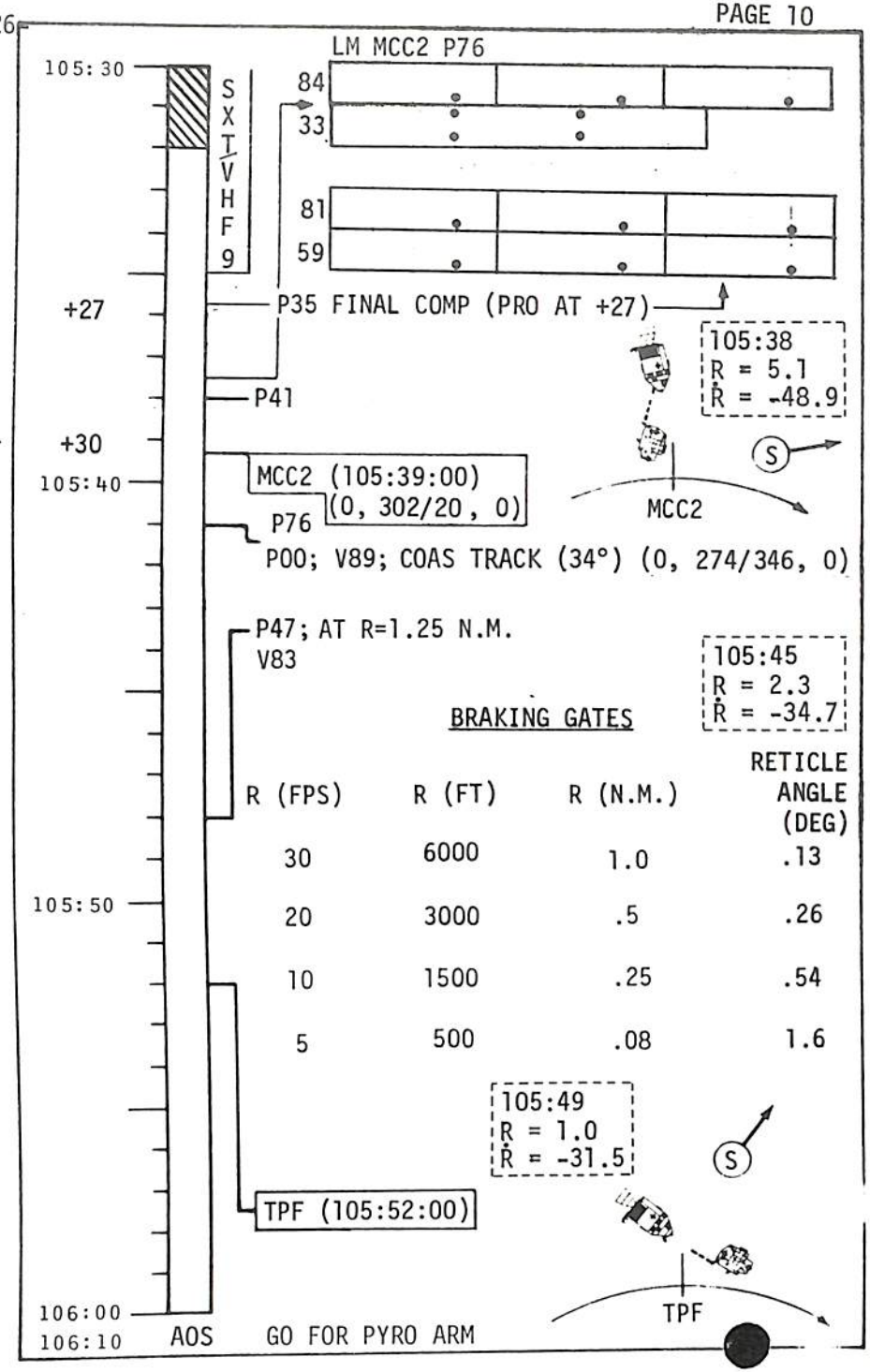

102:00
SXT/VHF 20
V88
-37
102:10
22
AOS
-32
-20
175
102:20
MSFN
102:30
102:10
R = 327.3
Ṙ = 432.5
(S)
(E)
PITCH DOWN 50°
(180, 194/182 ,0)
102:11 AOS
P00; V64; ACQ MSFN(180, 194/182, 0)
MCC-H UPLINK CSM VECTOR
INSERTION P76 PAD UPDATE
-189.2 0 -83.9
84 +179.0 .0 -71.0
33 102 : 58 : 01
(8)
CSM BACKUP INSERTION PAD UPDATE
102:20
R = 351.3
Ṙ = 45.6


42
102:30
-16
-14
-9
102:40
0
102:50
-38
-35
103:00
MSFN
102:30
R = 336.4
Ṙ = -336.5
P30
P40 (AUTO 110°)(180,2/272,0)
FAILED LM INSERTION
ZERO LM INSERTION; CSM BACKUP
INSERTION AND ZERO INSERTION CHECKLIST
PARTIAL LM INSERTION CHECKLIST
RESCUE BURN AT 103:32
SPS
GDC ALIGN
(S)
(E)
INSERTION
54:37
LM INSERTION (102:43:18)(-189.2,0,-83.9)
CSM INSERTION (102:46:18) (175.4,0,-107.1)
(180, 32/272 0)
P52 (OPTION 3)
05 40 ID1
93 45 ID2
35 ID3
102:50
R = 239.4
Ṙ = -416.2
P00; MCC-H UPLINK LM VECTOR
P20 (AUTO 101°)(180,162/13,0)
11 103 : 45 : 54.0
37 105 : 21 : 01.00
P32; OBTAIN AND LOAD LM CSI AND TPI TIGN'S


103:00
-32
103:10
103:20
-12
-9
-6
103:30
MSFN
LOS
SXT/VHF
VHF ONLY
V93; V87; V57
103:00
R = 202.5
Ṙ = -325.4
V93 AFTER 5 SXT MARKS
103:08
R = 180.3
Ṙ = -237.3
E
IF NO SXT MKS BY HERE:
VHF ONLY & PC at PC&CDH only
103:02
(180, 161/354, 0)
V90 LM YDOT TO LM
CSM YDOT FOR CSM
75
81
82
50.5
0
0
84
33
(16)
P32 FINAL COMP
LOAD N81 VGY WITH (-) CSM Y DOT
LOAD N81 VGX WITH (-)(LM DV+1)
LM CSI P76
P40 (AUTO 11°) (180,166/277,0)
V56
103:28
R = 151.1
Ṙ = -77.5
103:30
-4
0
103:40
-51
103:50
104:00
SPS
GDC ALIGN
CSI
S
LM CSI (103:33:46)(50.5,0,0)
45:33
CSM CSI (103:33:46) (-52.2,0,0)
P76(16); V82(45x45) (180,180/277,0)
P20 (AUTO 38°)(180,155/239,0)
P33
103:42
R = 137.8
Ṙ = -124.0
V87; V57
AFTER THREE SXT MARKS PROCESSED
V88
V67; WR(000.57,0003.4,00001
V87
LM PC P76
84
33
0.0
0.0
103:38
(180, 155/239, 0)
OBTAIN
LM PC TIGN
V90; LM Y DOT TO LM
LM PC
V87; V57

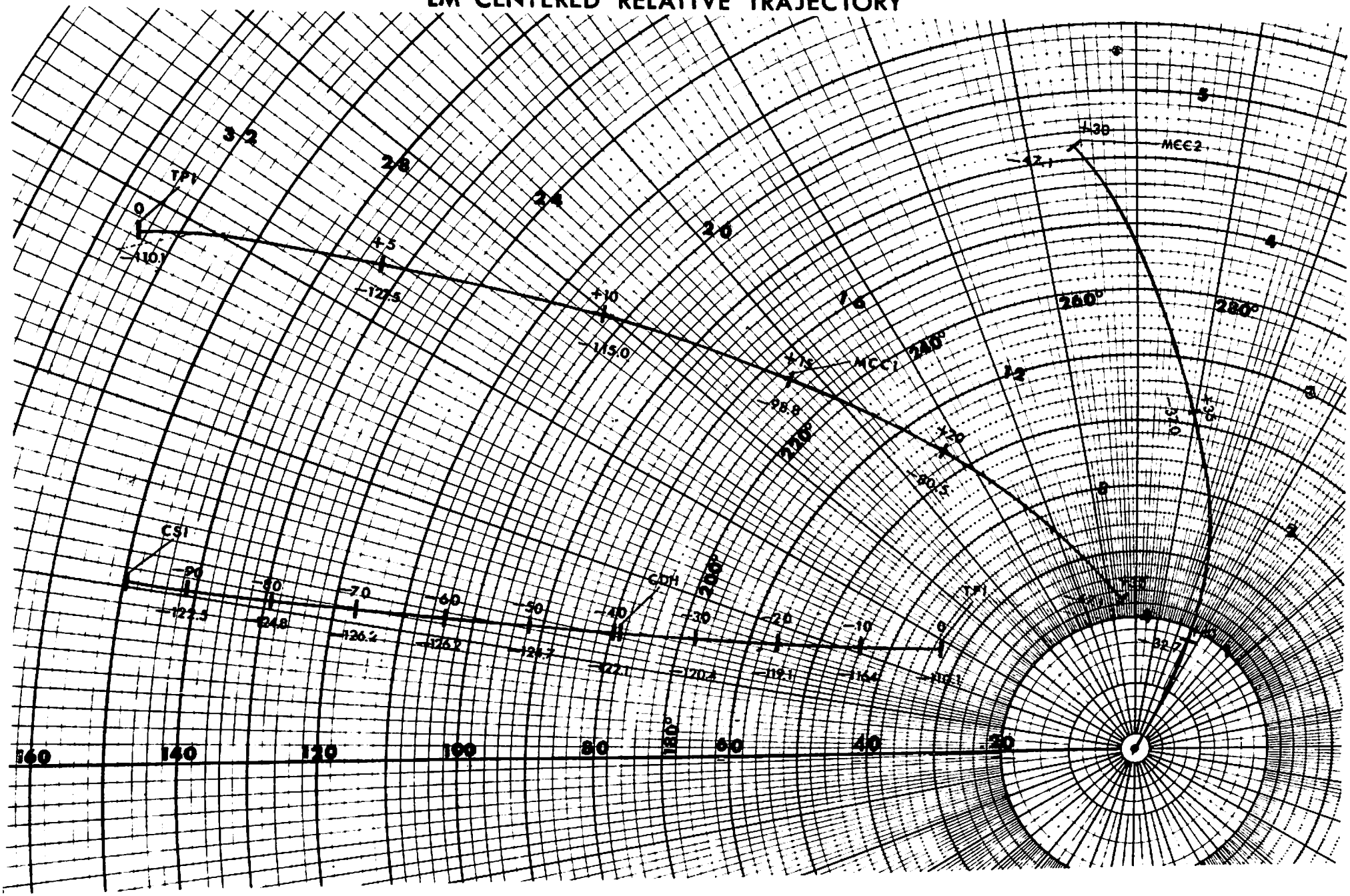

104
-30
-27
-24
104:10
104:20
-12
-10
-50
183
-7
-3
104:30
AOS
MSFN
SXT/VHF
21
LM PC (104:02:00)
P76
IF NO DO PC
REINITIALIZE; V93
PC
(180, 156/167, 0)
P33; OBTAIN AND LOAD LM CDH TIGN
13
104:07
R = 105.6
Ṙ = -133.4
V87; V57
V93 (THREE SXT MARKS
PROCESSED)
104:09
AOS
75
81
12
V90; LM Y DOT TO LM
CSM Y DOT FOR CSM
-4.2
ROLL 180° (0,167/108,0)
ACQ MSFN V64
P33 FINAL COMP
84
33
104:30
R = 76.2
Ṙ = -122.1
LM CDH P76
P41; BYPASS MNVR FOR SMALL BURNS
V56
104:30
-2
104:40
-29
-40
185
104:50
-13
-11
105:00
RCS
43:33
CDH
LM CDH (104:31:42)(-.8,0,3.3)
CSM CDH (104:31:42)(-.6,0,-5.0)
(0,188/108,0)
P76
P20 (AUTO 29°)(0,229/137,0)
P34 (ELEV OPTION)
V87; V57
104:39
R = 65.6
Ṙ = -116.9
V93(AFTER 3 VHF MKS); V32
AFTER 3 VHF MARKS P34 RECYCLE
37
208.3
E
58
59
LM TPI TIGN
33
104:50
R = 53.1
Ṙ = -114.2
P34 RECALL
37
0.0
E
58
81
-21
+4.5
+10.8
59
18
ORDEAL (V83)
104:58
(0, 237/77, 0)
P34 RECALL
LM TPI TIGN


105:00
-7
-5
0
105:10
+3
+11
105:20
+12
+15
+17
105:30
MSFN
LOS
SXT/VHF 8
84 +21.7 −4.7 +1.2
33 105:29:56.19 (8)
P40 (AUTO 53°)(0,192/15,0)
LM TPI P76
V56
SPS
GDC ALIGN
105:03
R = 38.7
Ṙ = -109.8
E
TPI
(0, 208/15, 0)
LM TPI (105:09:00)(22.2,0,-12.1)
CSM TPI (105:09:00)(-21.8,0,11.6
(0,208/15.0)
P76 (8)
P20 (AUTO 33°)(0,247/48,0)
P35; V93; V87; V57
LM MCC1 P76
84
33
81
59
P35 FINAL COMP (PRO AT +12)
105:24
R = 15.1
Ṙ = -96.7
P41
MCC1 (105:24:00) (0,265/29, 0)
P76
P35; V93; V87; V57
MCC1


105:30
SXT/VHF 9
LM MCC2 P76
84
33
81
59
+27
P35 FINAL COMP (PRO AT +27)
105:38
R = 5.1
Ṙ = -48.9
S
P41
+30
105:40
MCC2 (105:39:00)
(0, 302/20, 0)
MCC2
P76
P00; V89; COAS TRACK (34°) (0, 274/346, 0)
P47; AT R=1.25 N.M.
V83
105:45
R = 2.3
Ṙ = -34.7
BRAKING GATES
R (FPS) R (FT) R (N.M.) RETICLE ANGLE (DEG)
30 6000 1.0 .13
20 3000 .5 .26
10 1500 .25 .54
5 500 .08 1.6
105:50
105:49
R = 1.0
Ṙ = -31.5
S
TPF (105:52:00)
TPF
106:00
106:10
AOS
GO FOR PYRO ARM

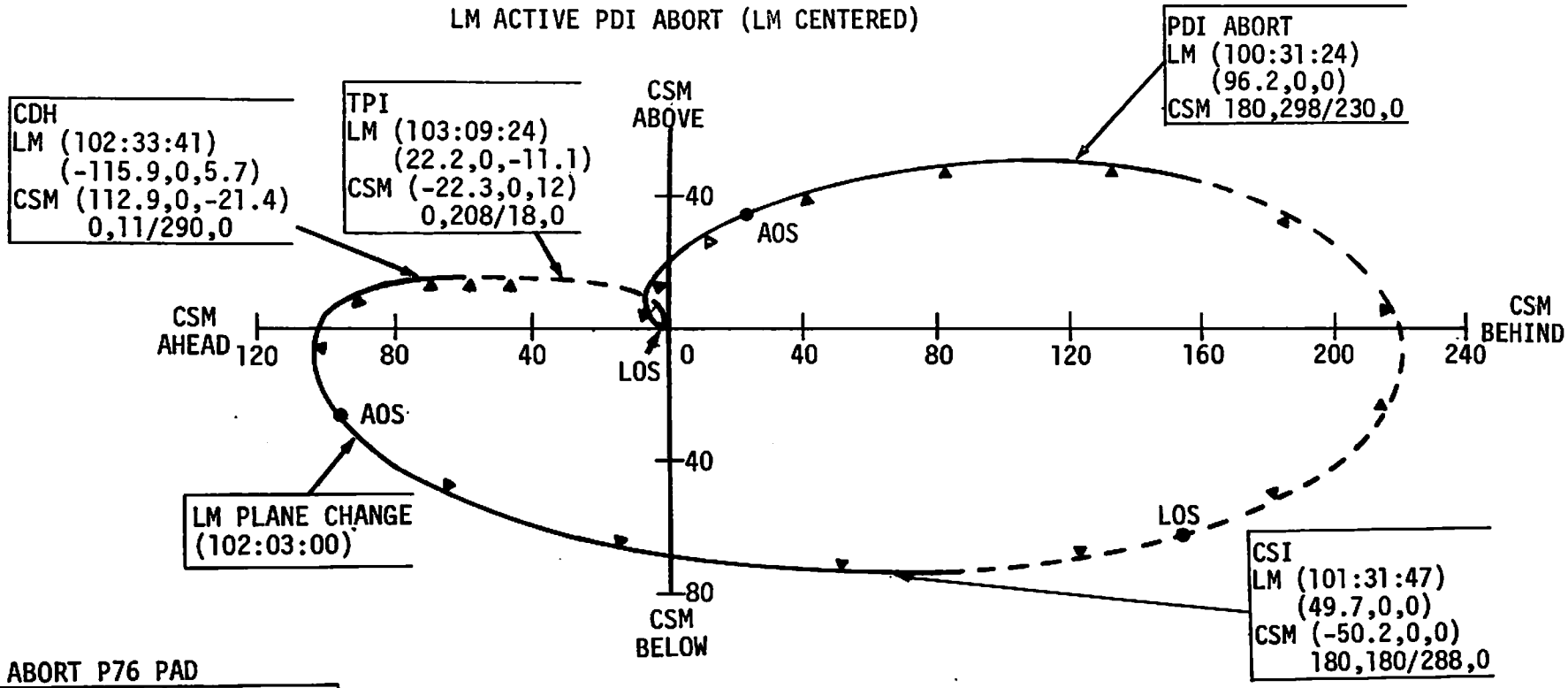
MISSION "F"

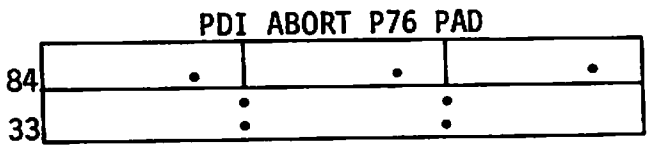
LM CENTERED RELATIVE TRAJECTORY

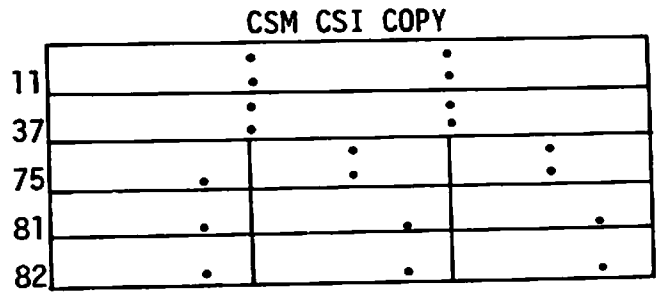


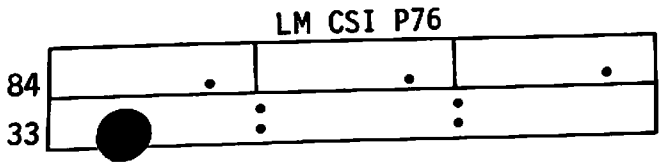
8.1.1 Plot and Pads

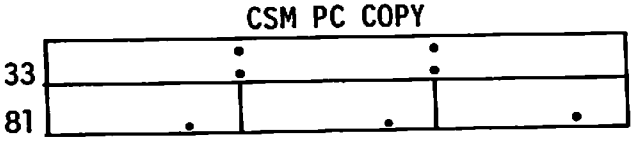
LM ACTIVE PDI ABORT (LM CENTERED)

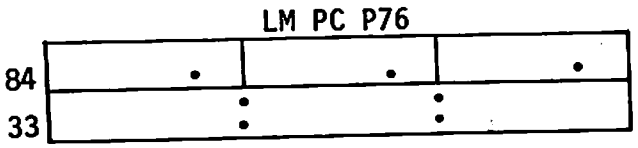


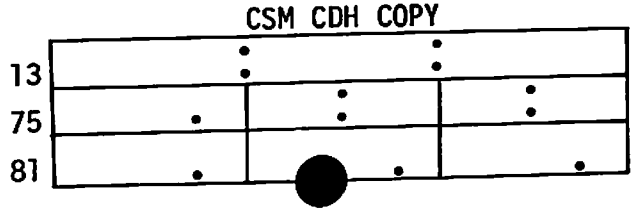


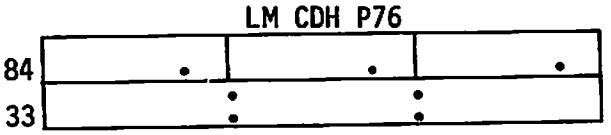


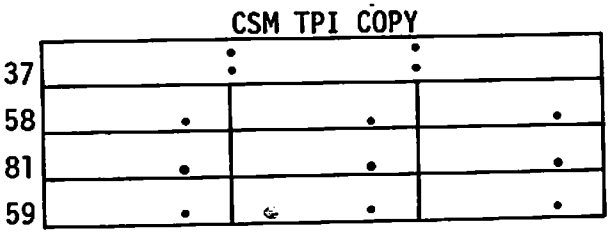


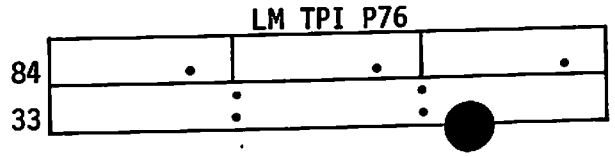


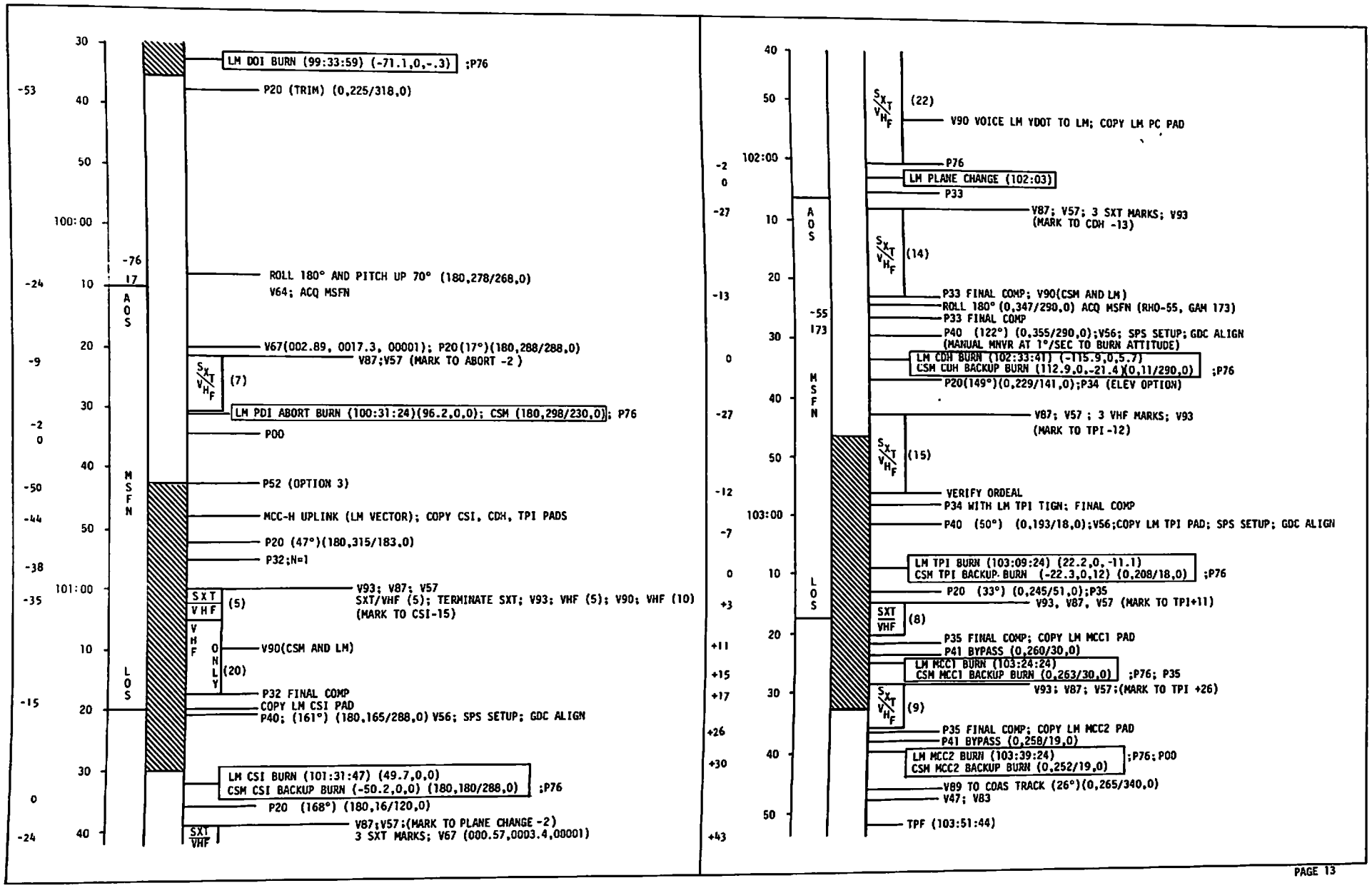








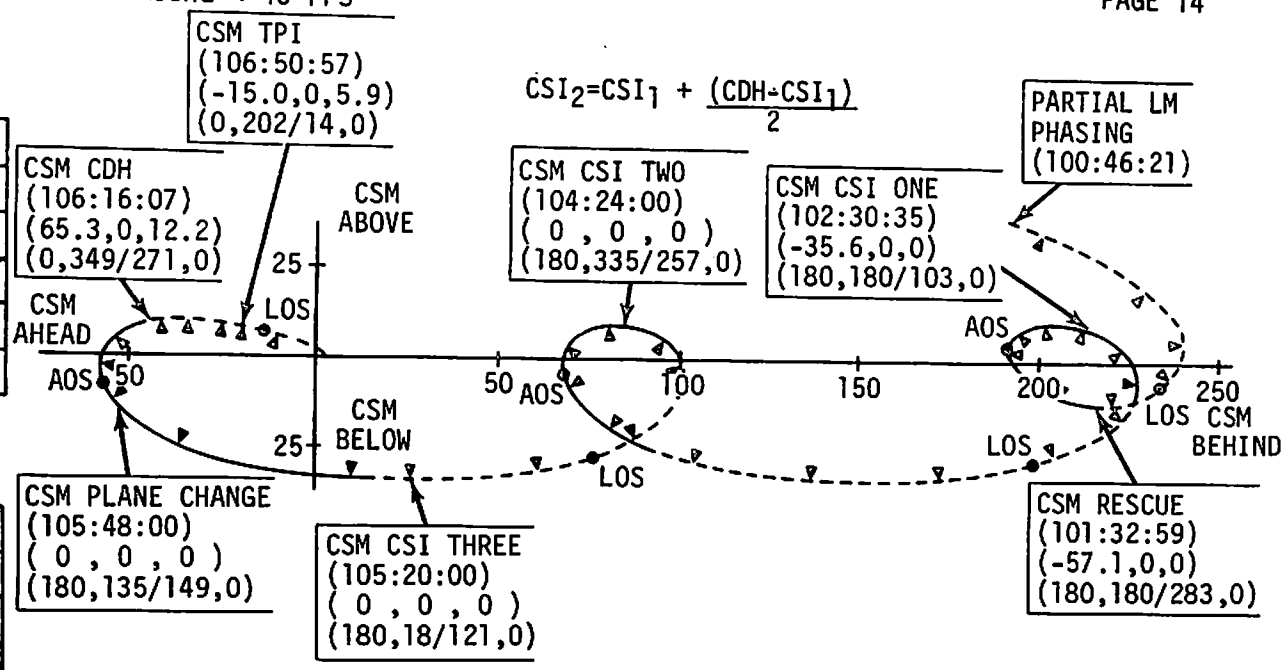



LM DOI BURN (99:33:59) (-71.1,0,-.3) ;P76
P20 (TRIM) (0,225/318,0)
ROLL 180° AND PITCH UP 70° (180,278/268,0)
V64; ACQ MSFN
V67(002.89, 0017.3, 00001); P20(17°)(180,288/288,0)
V87;V57 (MARK TO ABORT -2)
(7)
LM PDI ABORT BURN (100:31:24)(96.2,0,0); CSM (180,298/230,0); P76
P00
P52 (OPTION 3)
MCC-H UPLINK (LM VECTOR); COPY CSI, CDH, TPI PADS
P20 (47°)(180,315/183,0)
P32;N=1
V93; V87; V57
SXT/VHF (5); TERMINATE SXT; V93; VHF (5); V90; VHF (10)
(MARK TO CSI-15)
(5)
V90(CSM AND LM)
(20)
P32 FINAL COMP
COPY LM CSI PAD
P40; (161°) (180,165/288,0) V56; SPS SETUP; GDC ALIGN
LM CSI BURN (101:31:47) (49.7,0,0)
CSM CSI BACKUP BURN (-50.2,0,0) (180,180/288,0) ;P76
P20 (168°) (180,16/120,0)
V87;V57;(MARK TO PLANE CHANGE -2)
3 SXT MARKS; V67 (000.57,0003.4,00001)
AOS
MSFN
LOS
(22)
V90 VOICE LM YDOT TO LM; COPY LM PC PAD
P76
LM PLANE CHANGE (102:03)
P33
V87; V57; 3 SXT MARKS; V93
(MARK TO CDH -13)
(14)
P33 FINAL COMP; V90(CSM AND LM)
ROLL 180° (0,347/290,0) ACQ MSFN (RHO-55, GAM 173)
P33 FINAL COMP
P40 (122°) (0,355/290,0);V56; SPS SETUP; GDC ALIGN
(MANUAL MNVR AT 1°/SEC TO BURN ATTITUDE)
LM CDH BURN (102:33:41) (-115.9,0,5.7)
CSM CDH BACKUP BURN (112.9,0,-21.4)(0,11/290,0) ;P76
P20(149°)(0,229/141,0);P34 (ELEV OPTION)
V87; V57 ; 3 VHF MARKS; V93
(MARK TO TPI-12)
(15)
VERIFY ORDEAL
P34 WITH LM TPI TIGN; FINAL COMP
P40 (50°) (0,193/18,0);V56;COPY LM TPI PAD; SPS SETUP; GDC ALIGN
LM TPI BURN (103:09:24) (22.2,0,-11.1)
CSM TPI BACKUP BURN (-22.3,0,12) (0,208/18,0) ;P76
P20 (33°) (0,245/51,0);P35
V93, V87, V57 (MARK TO TPI+11)
(8)
P35 FINAL COMP; COPY LM MCC1 PAD
P41 BYPASS (0,260/30,0)
LM MCC1 BURN (103:24:24)
CSM MCC1 BACKUP BURN (0,263/30,0) ;P76; P35
V93; V87; V57;(MARK TO TPI +26)
(9)
P35 FINAL COMP; COPY LM MCC2 PAD
P41 BYPASS (0,258/19,0)
LM MCC2 BURN (103:39:24)
CSM MCC2 BACKUP BURN (0,252/19,0) ;P76; P00
V89 TO COAS TRACK (26°)(0,265/340,0)
V47; V83
TPF (103:51:44)

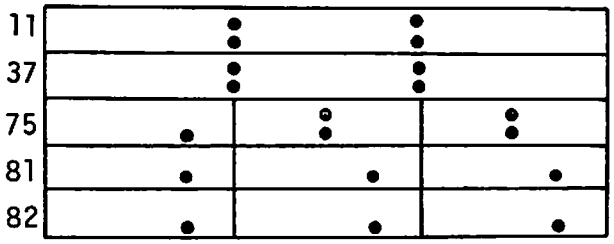
PARTIAL LM PHASING < 40 FPS

CANNED RESCUE TWO PAD

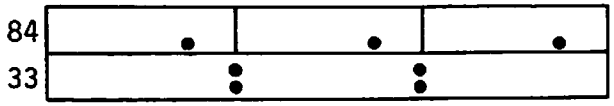
47	+	37768.	+	00000.
48	-	000.52	+	000.59
33		00101	00032	059.00
81	-	0057.1	+ 0000.0	+ 0000.0
22		XXX180	XXX283	XXX000
ΔV_C		X0047.1		
11		00102	00030	035.00
37		00106	00050	057.00
N		4		



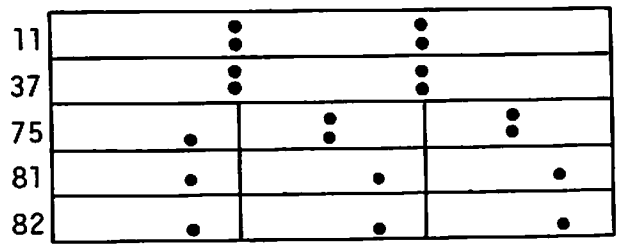
CSM CSI ONE COPY



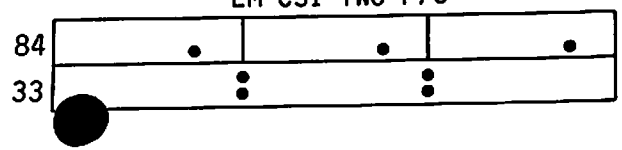
LM CSI ONE P76



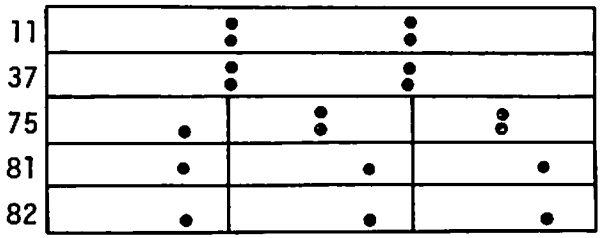
CSM CSI TWO COPY



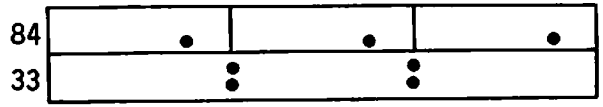
LM CSI TWO P76



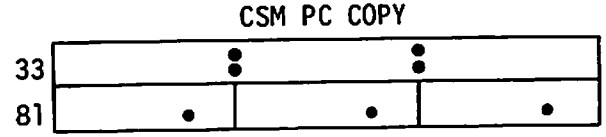
CSM CSI THREE COPY



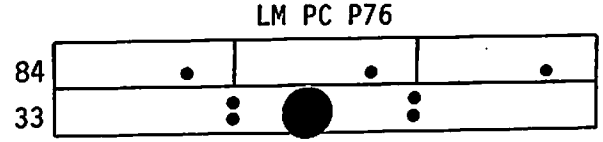
LM CSI THREE P76



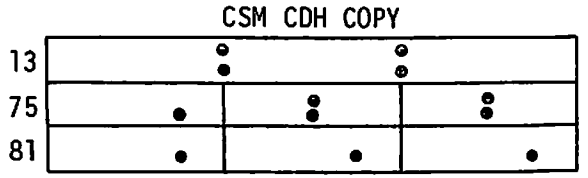
CSM PC COPY



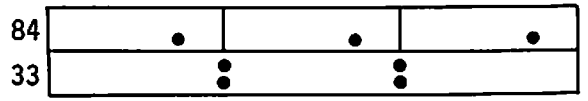
LM PC P76



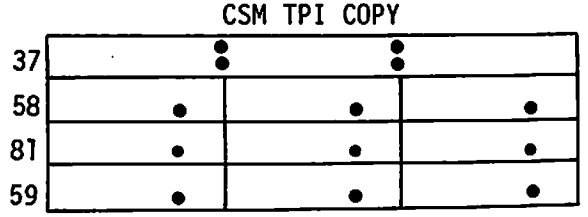
CSM CDH COPY



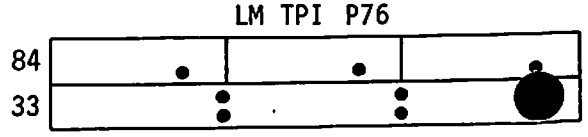
LM CDH P76



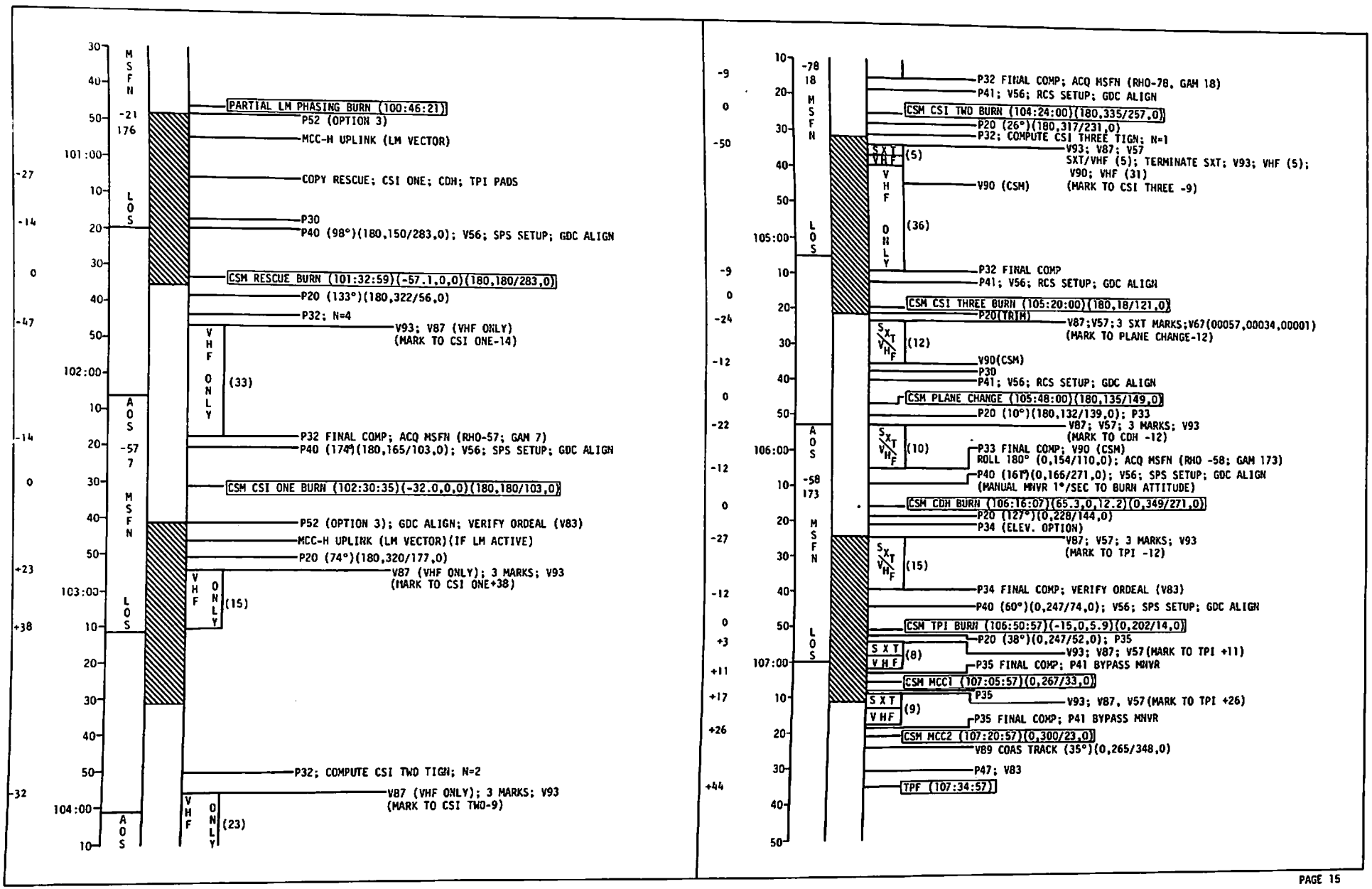
CSM TPI COPY



LM TPI P76

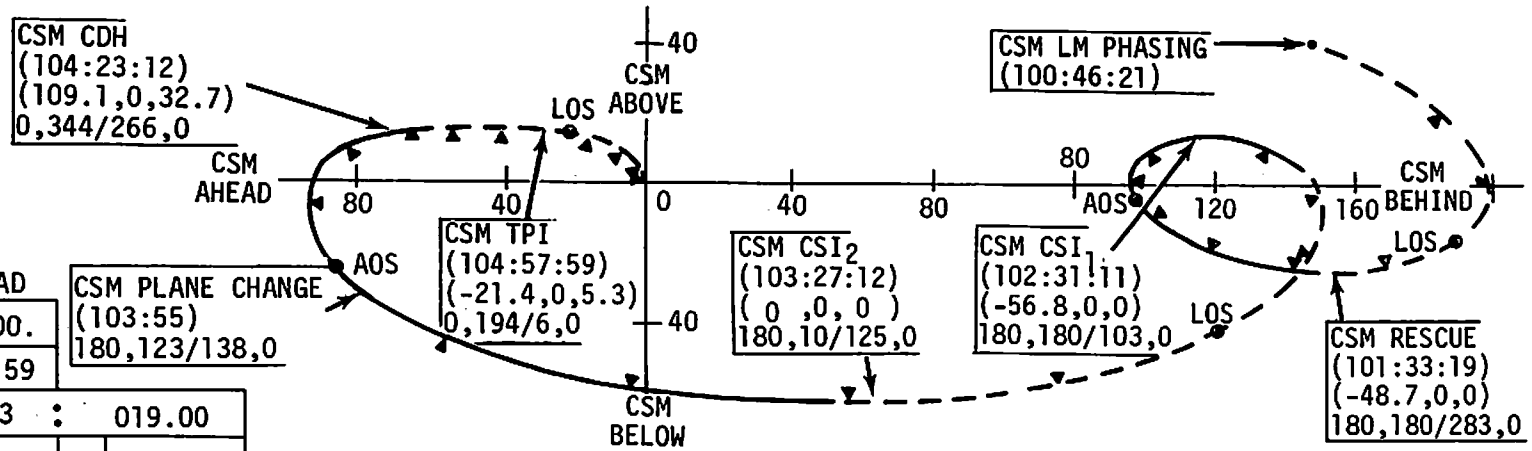


CSM ACTIVE LM RESCUE PHASING LESS THAN 40 FPS



CSM ACTIVE LM RESCUE PARTIAL PHASING ≥40fps (LM CENTERED)

$$CSI_2 = CSI_1 + \frac{(CDH - CSI_1)}{2}$$



CANNED RESCUE TWO PAD

47	+	37768.	+	00000.	
48	-	000.52	+	000.59	
33	00101	:	00033	:	019.00
81	- 0048.7	+	0000.0	+	0000.0
22	XXX180		XXX283		XXX000
ΔV_C	X0038.8				
11	00102	:	00031	:	011.00
37	00104	:	00057	:	059.00
N	2				

CSM CSI TWO COPY

11	
37	
75	
81	
82	

CSM CDH COPY

13	
75	
81	

CSM CSI ONE COPY

11	
37	
75	
81	
82	

LM CSI TWO P76

84	
33	

LM CDH P76

84	
33	

CSM PC COPY

33	
81	

CSM TPI COPY

37	
58	
81	
59	

LM CSI ONE P76

84	
33	

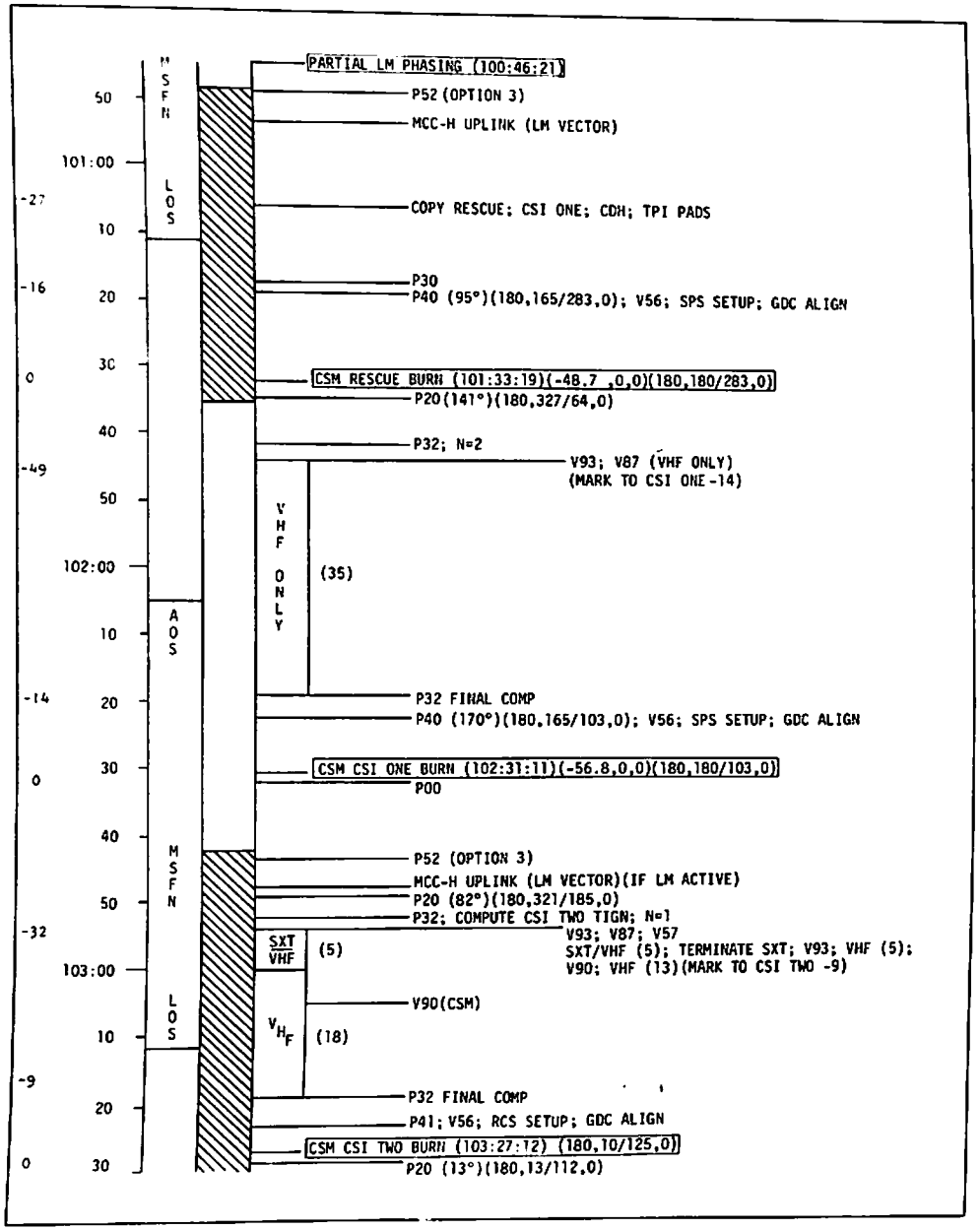
LM PC P76

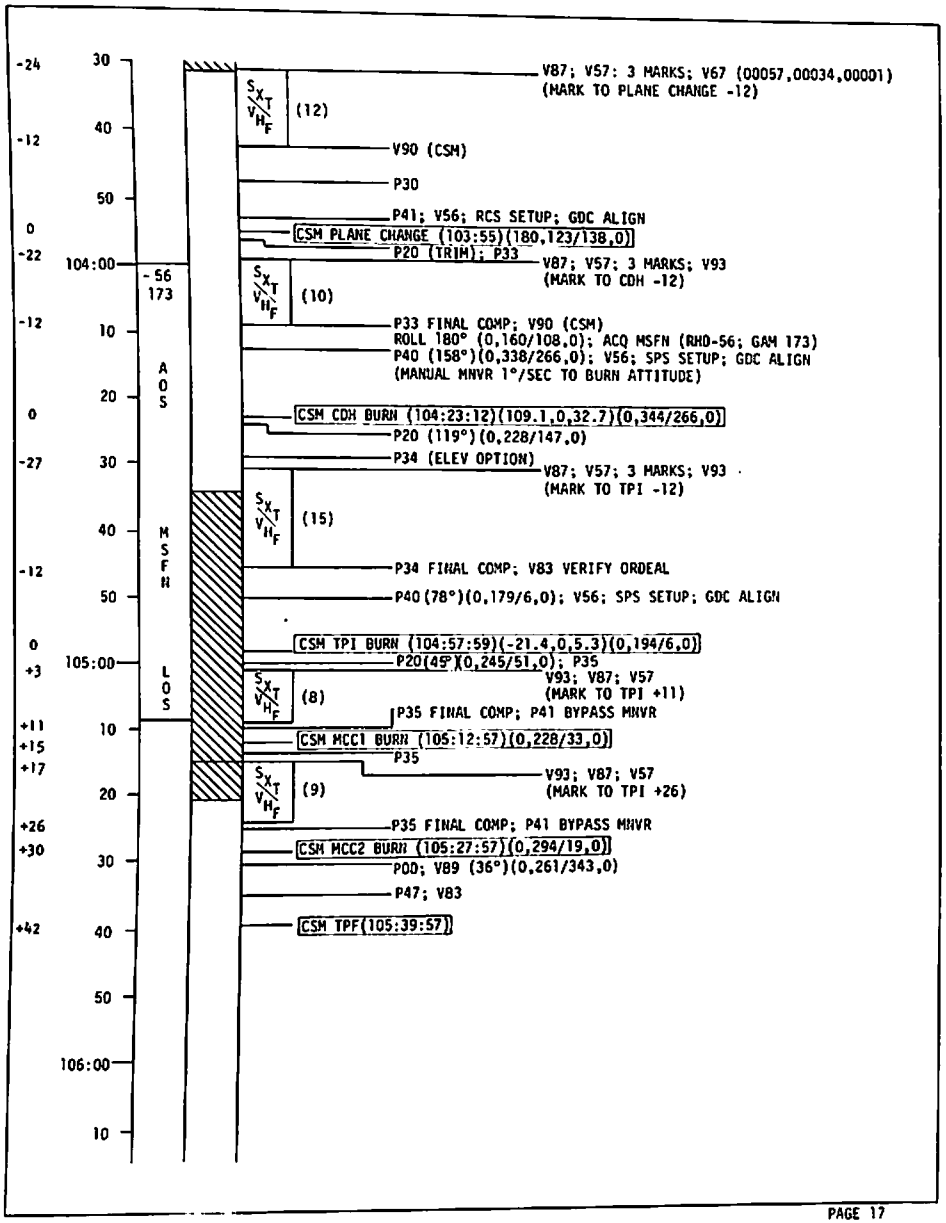
84	
33	

LM TPI P76

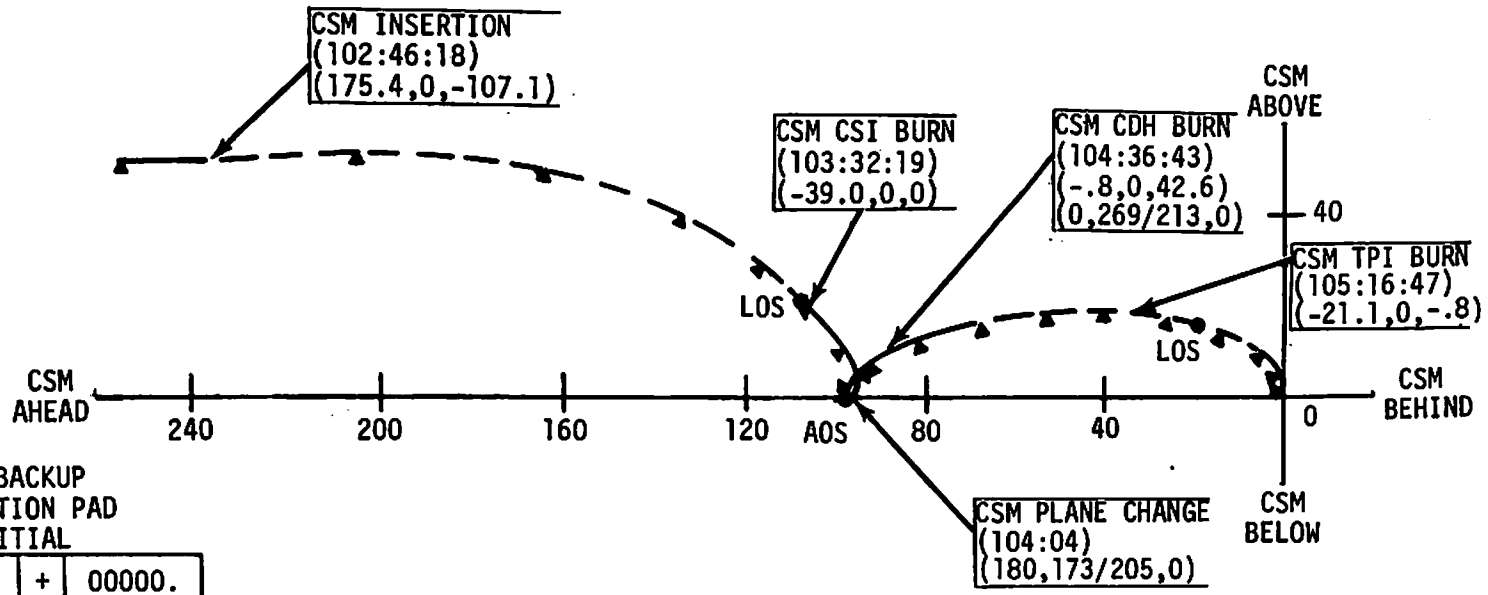
84	
33	

CSM ACTIVE LM RESCUE - LM PHASING ≥ 40 FPS (ΔV APPLIED = 40 FPS)





CSM ACTIVE LM RESCUE-ZERO INSERTION (LM CENTERED)



CSM BACKUP INSERTION PAD INITIAL

47	+	37768.	+	00000.		
48	-	000.52	+	000.59		
33	00102	:	00046	:	018.00	
81	+	175.4	+	0000.0	-	107.1
22	XXX180		XXX272		XXX00	
ΔV_C	X192.7					
11	00103	:	00032	:	019.	
37	00105	:	00016	:	047.	
N	1					

CSM CSI COPY

11	:	:	
37	:	:	
75	.	:	:
81	.	.	.
82	.	.	.

LM CSI P76

84	.	.	.
33	:	:	

CSM PC COPY

33	:	:	
81	.	.	.

LM PC P76

84	.	.	.
33	:	:	

CSM CDH COPY

13	:	:	
75	.	:	:
81	.	.	.

LM CDH P76

84	.	.	.
33	:	:	

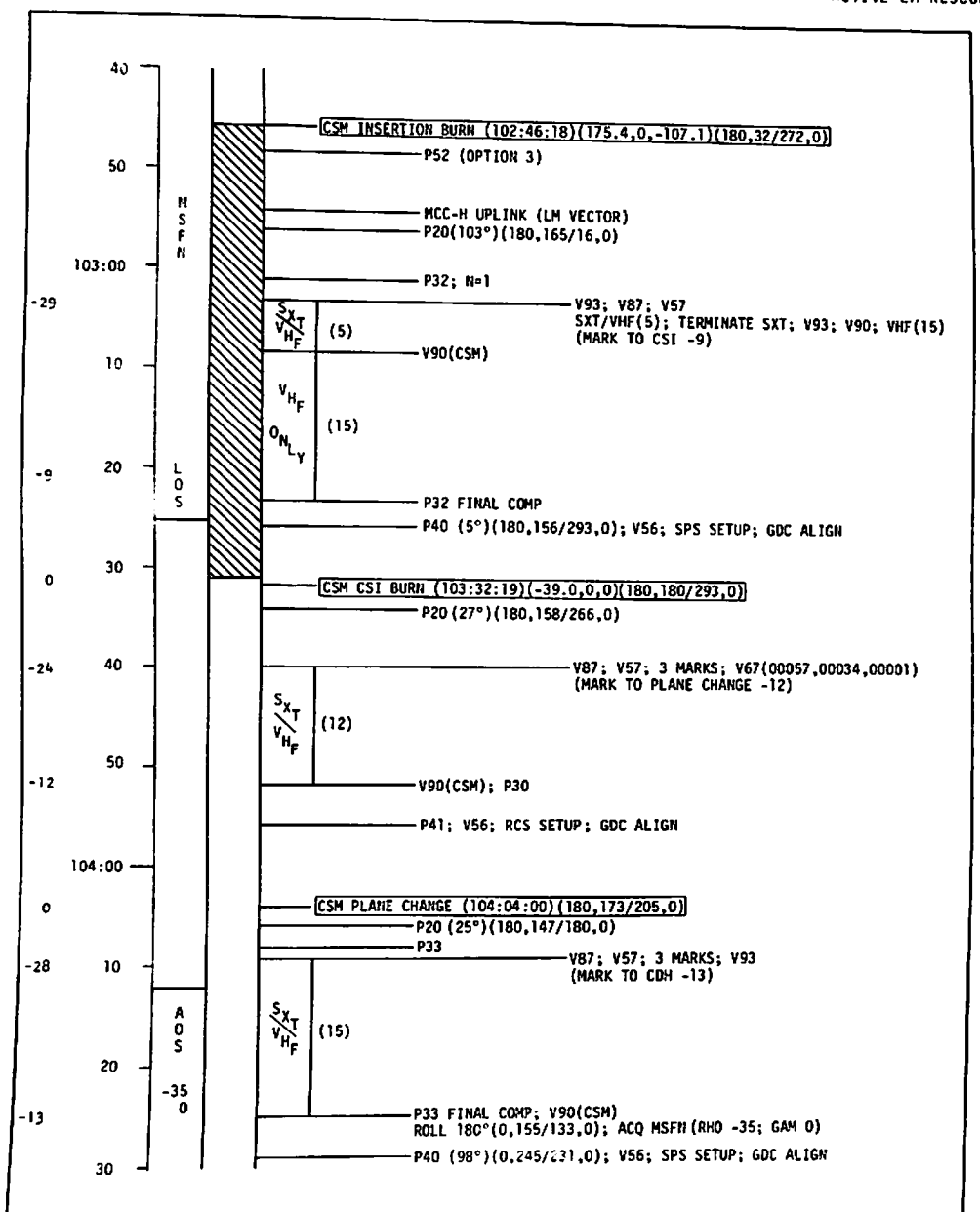
CSM TPI COPY

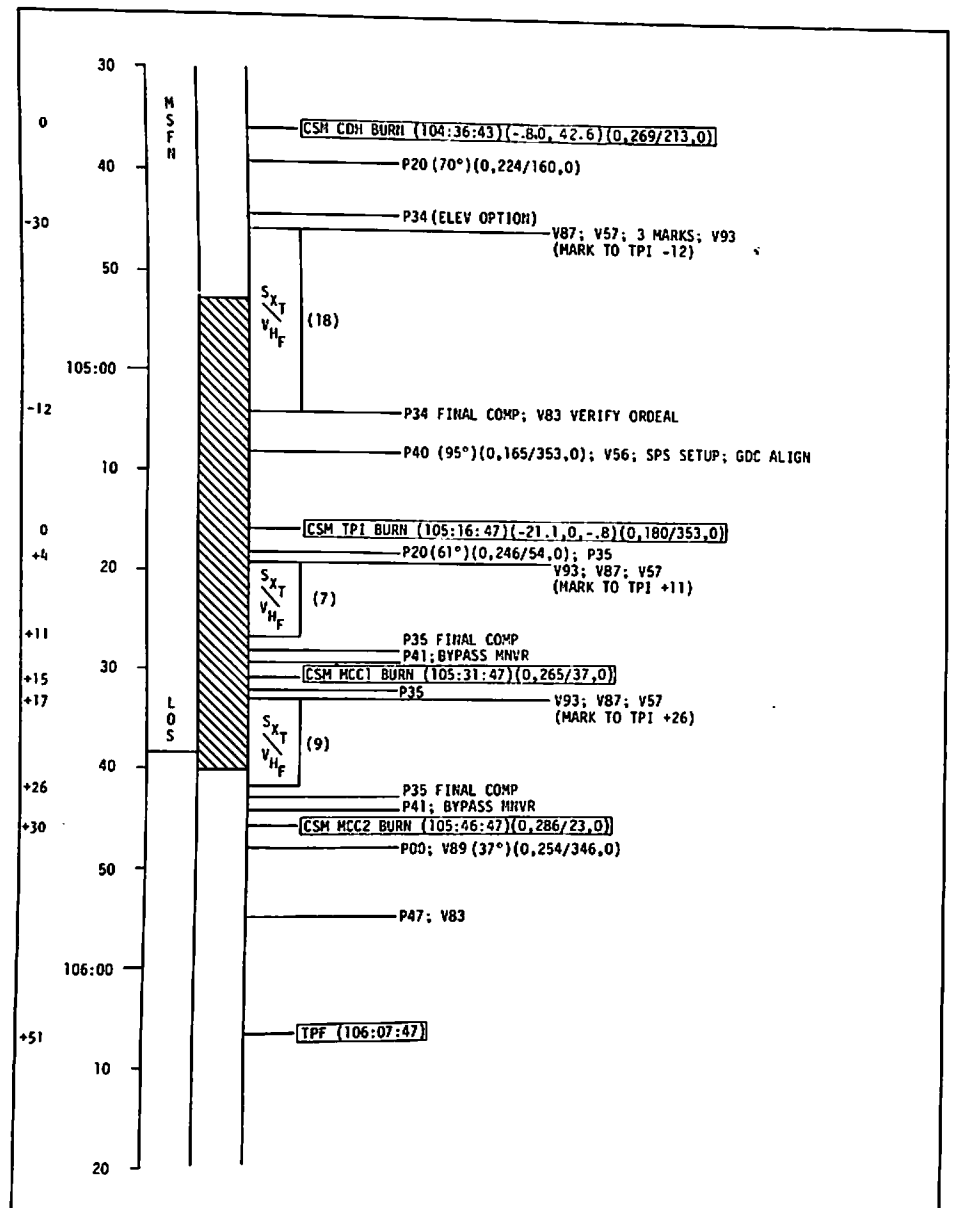
37	:	:	
58	.	.	.
81	.	.	.
59	.	.	.

LM TPI P76

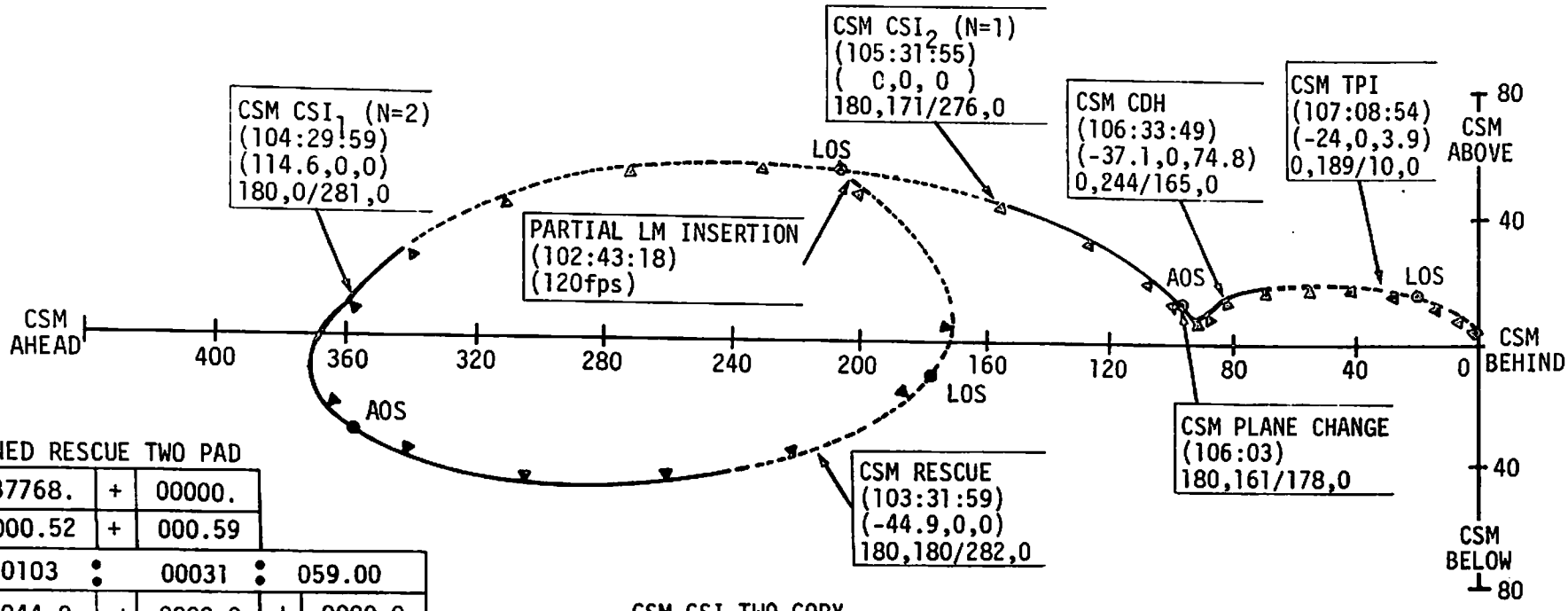
84	.	.	.
33	:	:	

CSM ACTIVE LM RESCUE - LM INSERTION = 0





CSM ACTIVE LM - PARTIAL LM INSERTION (LM CENTERED)



CANNED RESCUE TWO PAD

47	+	37768.	+	00000.	
48	-	000.52	+	000.59	
33	00103		00031		059.00
81	-	0044.9	+	0000.0	+ 0000.0
22	XXX180		XXX282		XXX000
V_C	X0035.0				
11	00104		00029		059.00
37	00107		00008		054.00
N	2				

CSM CSI ONE COPY

11
37
75
81
82

LM CSI ONE P76

84
33

CSM CSI TWO COPY

11
37
75
81
82

LM CSI TWO P76

84
33

CSM PC COPY

33
81

LM PC P76

CSM CDH COPY

13
75
81

LM CDH P76

84
33

CSM TPI COPY

37
58
81
59

LM TPI P76

84
33

CSM ACTIVE LM RESCUE - PARTIAL LM INSERTION (ΔV APPLIED = 120 FPS)