BIRDS OF THUNDER
PROGRAM NOTES

Birds Of Thunder portrays the artistry of the USAF Thunderbirds: both the serenity of the aerial ballet (as seen from afar) and the daring precision (as felt from the cockpit).

Threaded throughout the piece are sweeping orchestral effects suggesting specific maneuvers: independent musical lines converging, diverging, moving tightly in tandem and sometimes leaving vapor trails behind.

In broader terms, the melodies symbolize the spirit of the legendary Thunderbird. Its mystical "call" opens the work; a soaring lyrical theme depicts freedom in flight, while the following dramatic motive conveys the Thunderbird's penchant for speed and bravura. The piece closes with a conversation of Thunderbirds in full fury.

The musical language is also driven by the classic "diamond" formation. Melodies are based on the musical interval of a perfect fourth, and the supporting harmony showcases tight four-note clusters. The orchestration frequently groups performers in fours, and also exploits the "quartal" qualities of individual instruments: the four strings of the cello, for instance, or four timpani drums.

The work's conceptual and technical demands take full advantage of the skill of the USAF Band, a cutting-edge musical ensemble which, like the USAF Thunderbirds, represents the excellence and professionalism found throughout the Air Force.

(Performance Time 8:21)

BIRDS OF THUNDER

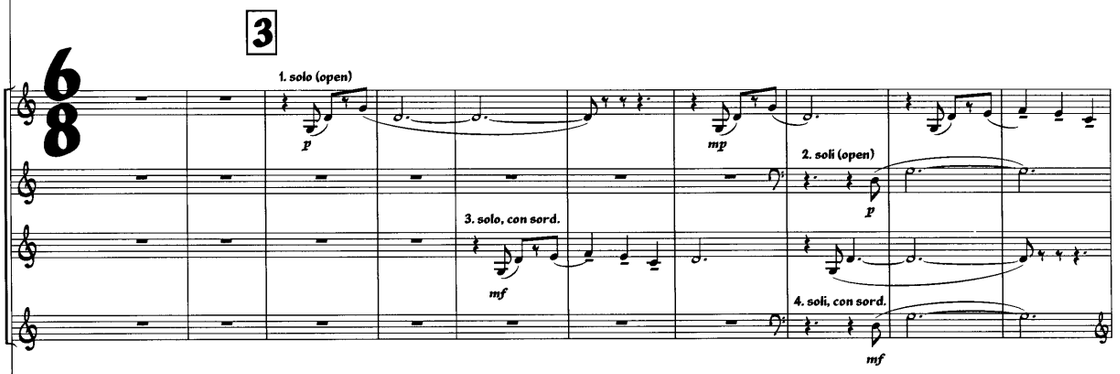
- MSGT JOHN BLISS

score in concert pitch

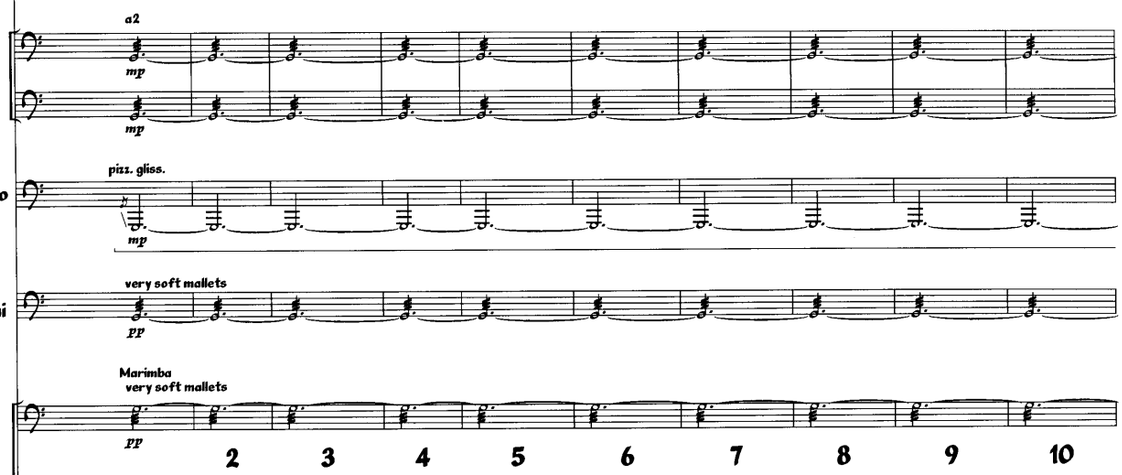
no key signature

Bravura (in one) ♩. = 60

3 Flutes
Piccolo
Oboe 1,2
English Horn
E♭ Clarinet
6 Clarinets in B♭
Bass Clarinet
Contralto Clar.
Bassoon 1,2
SA
Saxophones
TB
Trumpet 1 in D
(light & brilliant)
Trumpet 2 in C
Trumpet 3 in C
Trumpet 4 in B♭
Trumpet 5 in C
Trumpet 6 in B♭
Trumpet 7 in B♭
(Flugel Horn)



(Tenor)
Trombones 1-4
Trombone 5
(Bass)
Euphonium 1
(open)
Euphonium 2
(muted throughout)
Tuba 1
(muted throughout)
Tuba 2,3
(open)



Harp

Drum Set

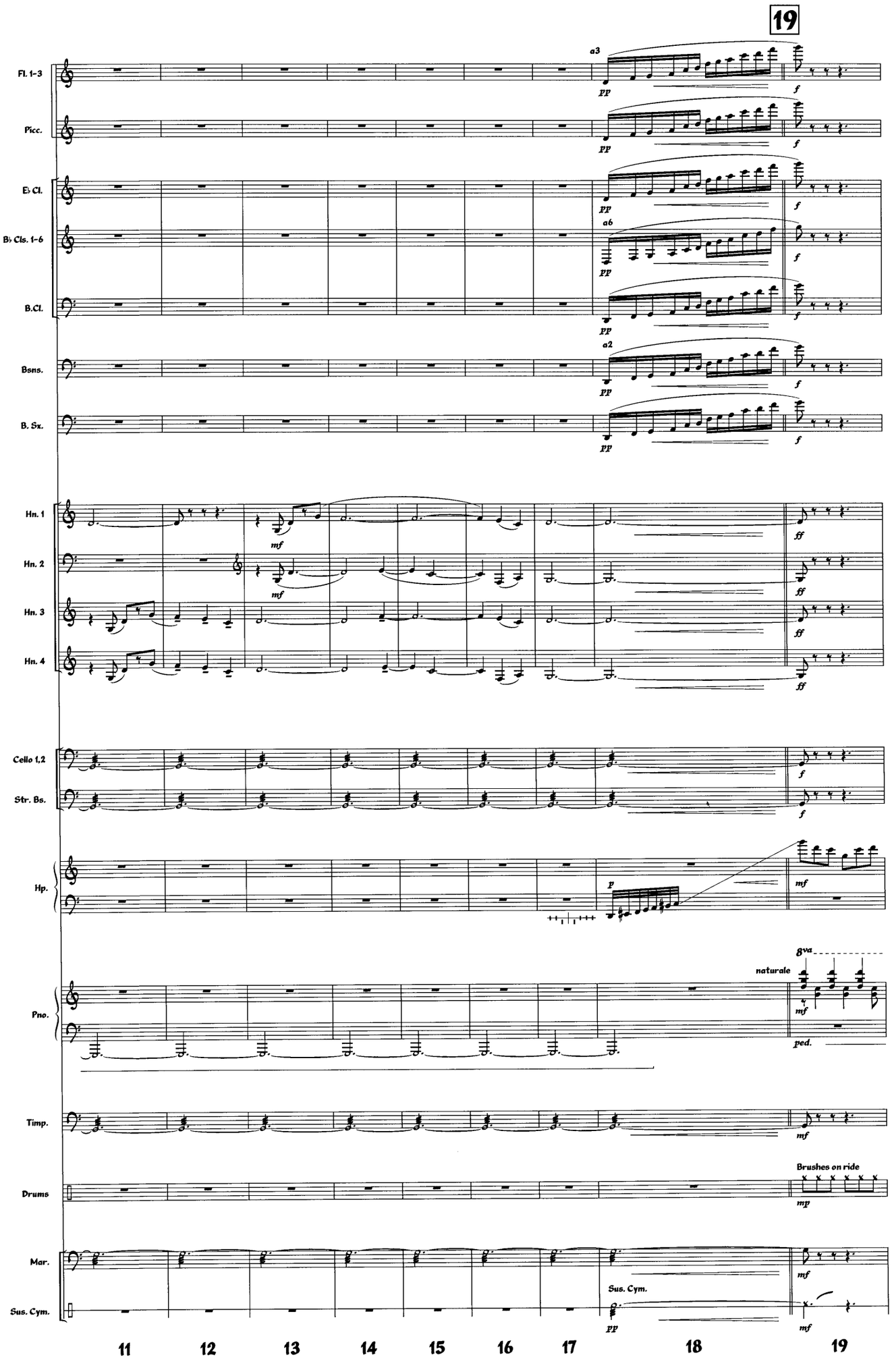
Percussion 1
(Bass Drum, Large Gong, Marimba, Triangle)
Percussion 2
(Chimes, Snare Drum, Thunder Sheet)
Percussion 3
(Vibraphone, Crotales, Field Cymbals, Sizzle Cymbal, Tambourine)
Percussion 4
(Orch. Bells, Xylophone, Anvil/Brake Drum, China Cymbal, Suspended Cymbal, Wind Machine)

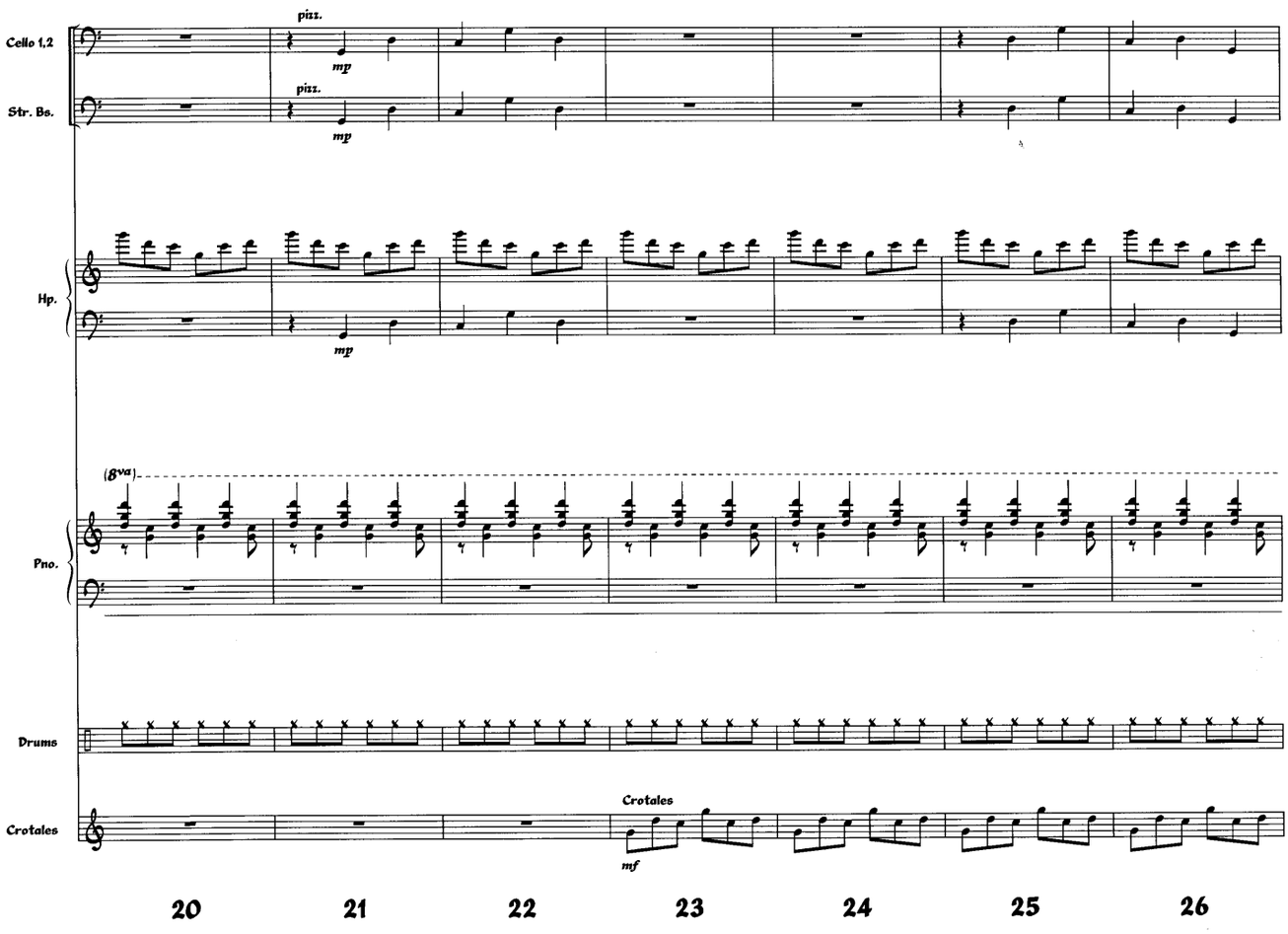
2 3 4 5 6 7 8 9 10

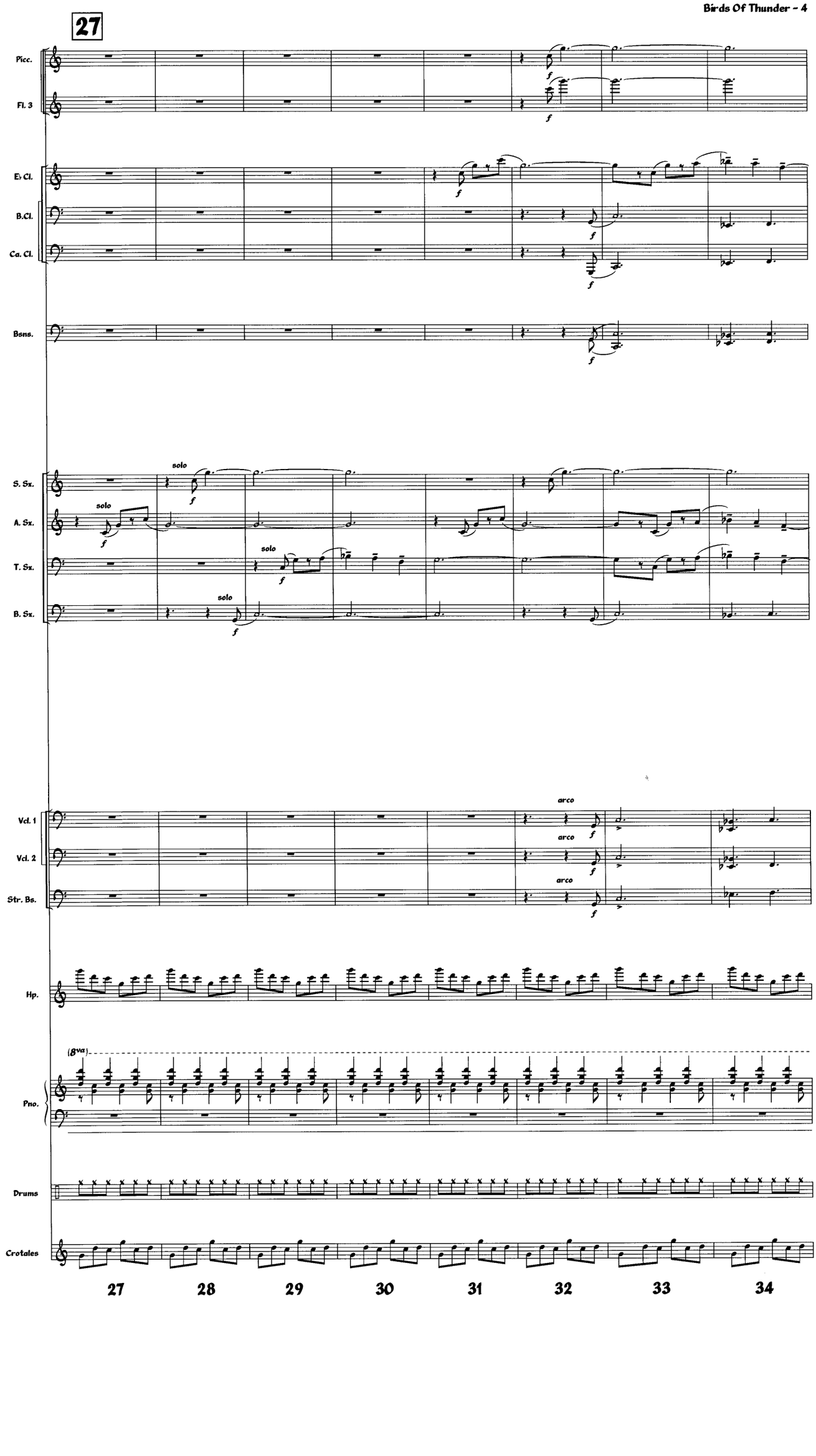
SSAA
Solo Voices*
TTBB

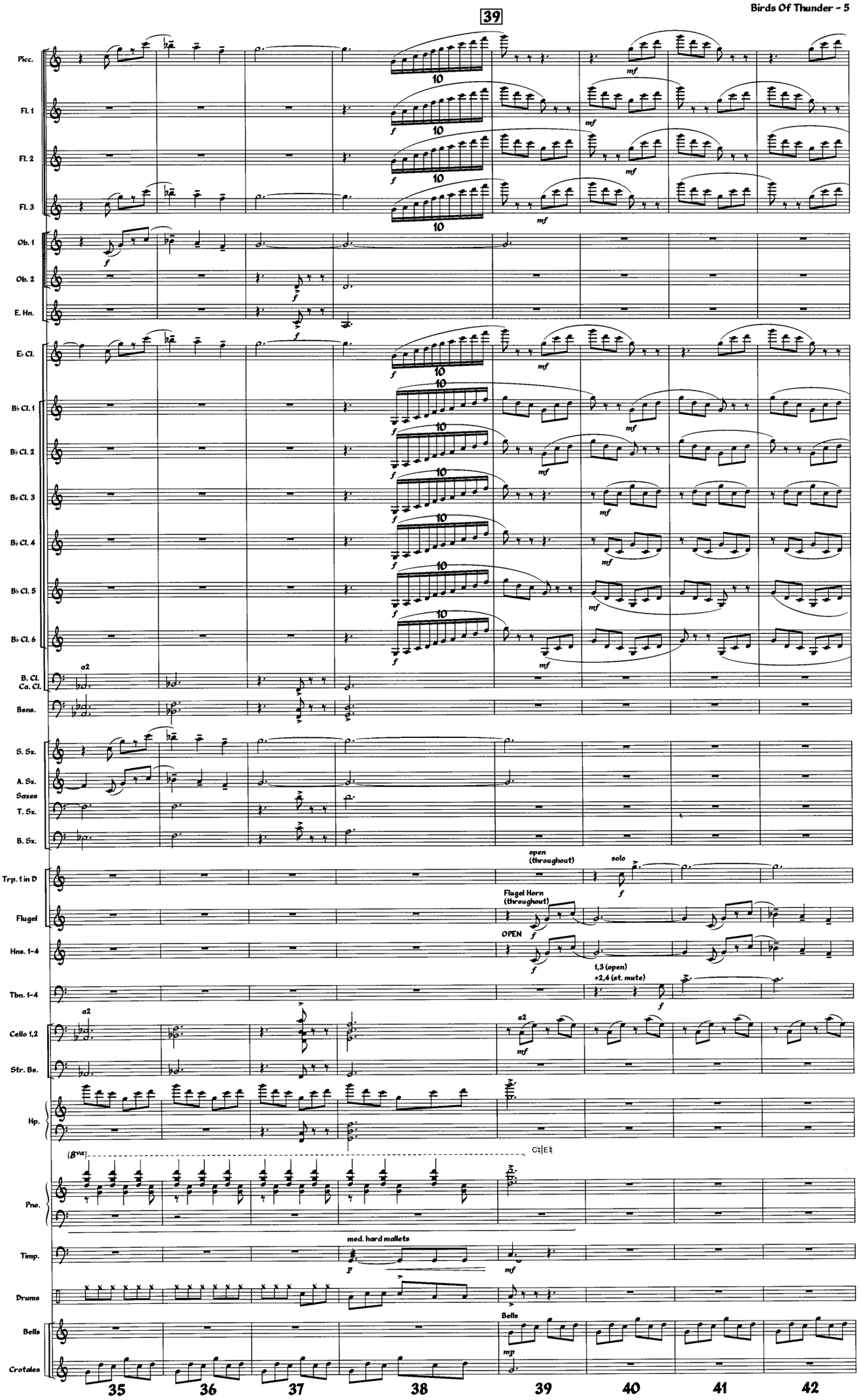
*** Eight solo voices:**
pure, clear tone throughout (falsetto where needed), without vibrato;
always to remain within the sound of the ensemble, i.e.
"inside" the instrumental sonorities they are coloring

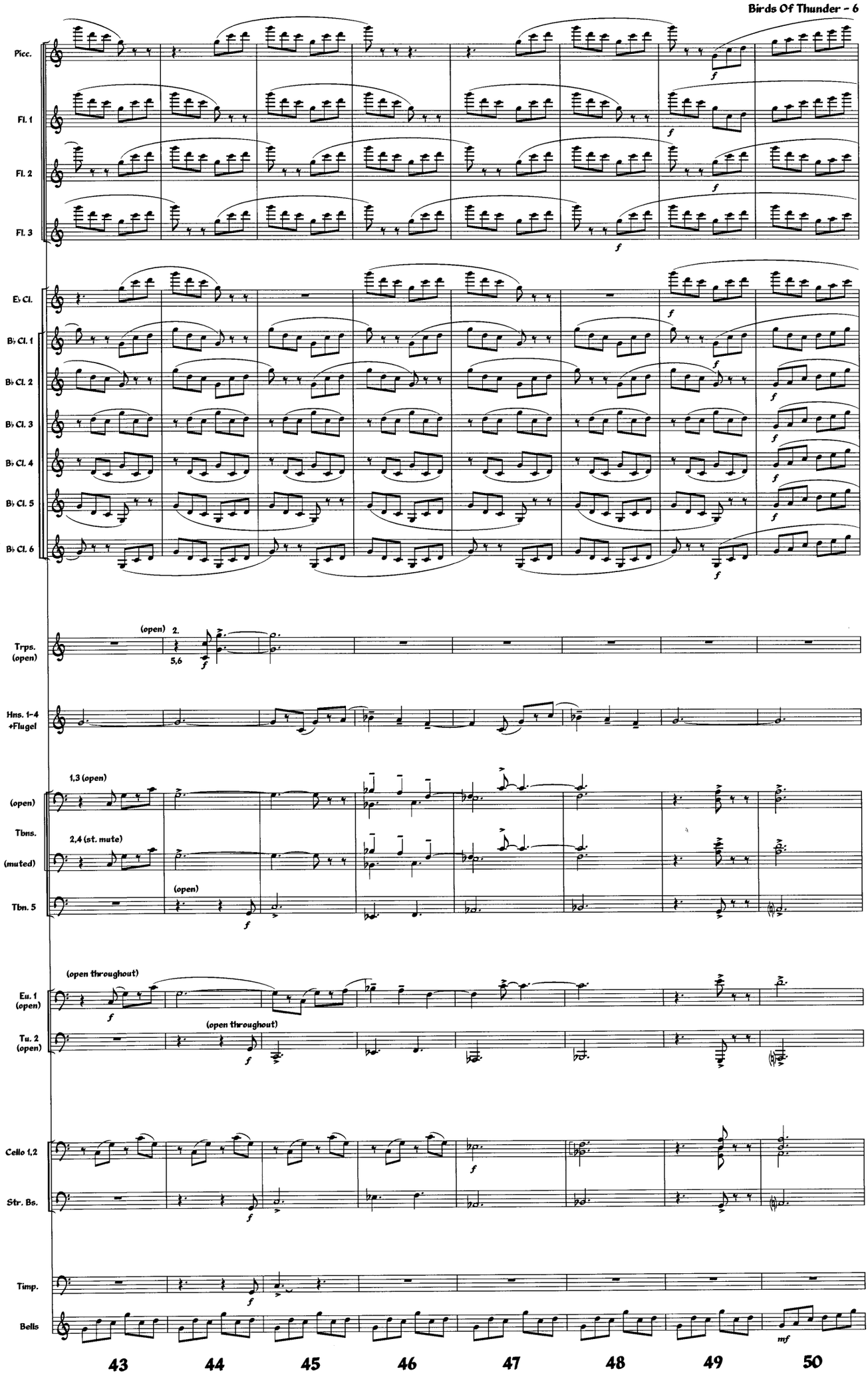
USAF BAND, WASHINGTON, DC

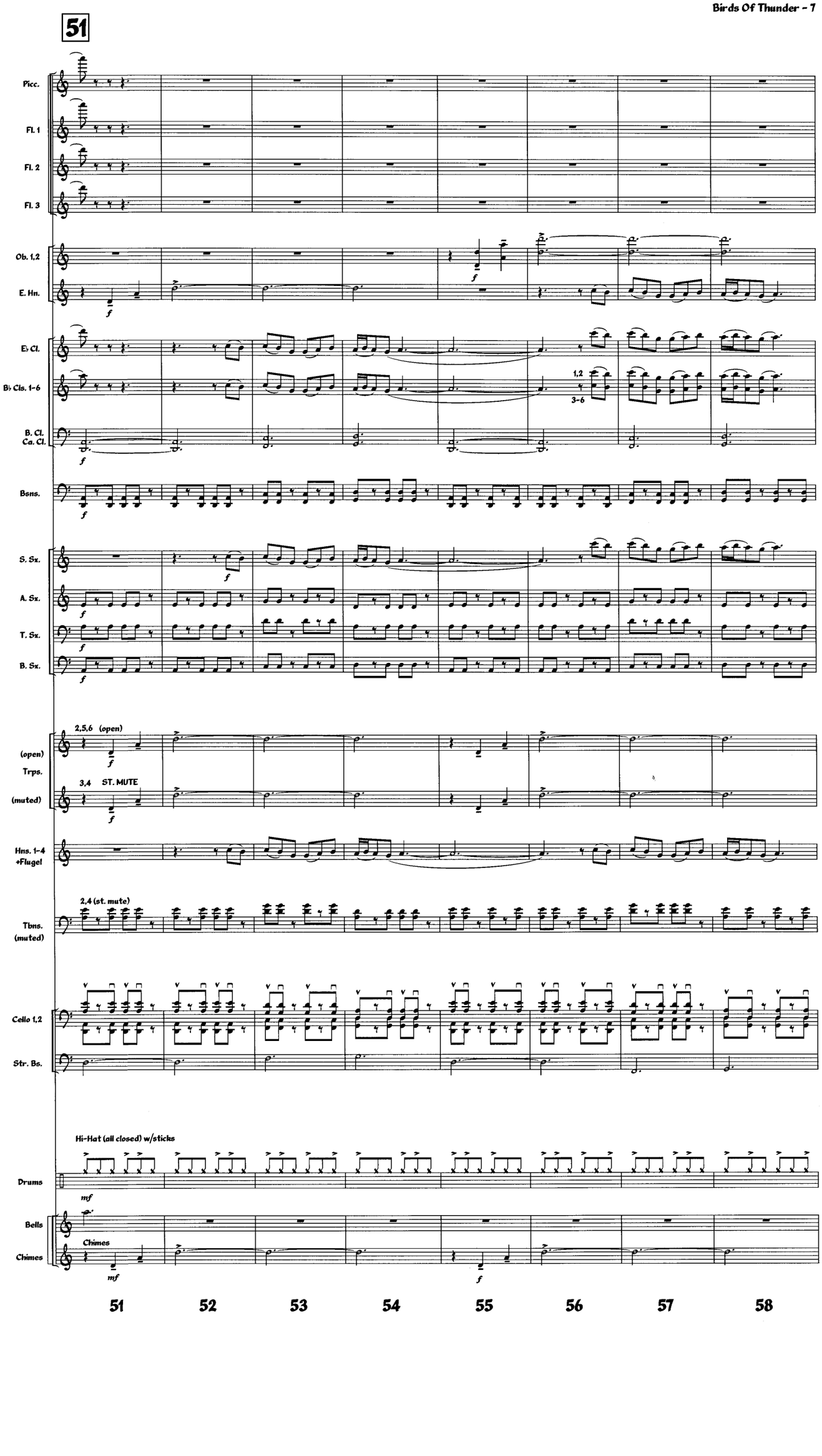

19
Fl. 1-3
Picc.
E♭ Cl.
B♭ Cls. 1-6
B.Cl.
Bsns.
B. Sx.
Hn. 1
Hn. 2
Hn. 3
Hn. 4
Cello 1,2
Str. Bs.
Hp.
Pno.
Timp.
Drums
Mar.
Sus. Cym.
a3
a6
a2
pp
f
mf
ff
p
8va
naturale
ped.
Brushes on ride
Sus. Cym.
11
12
13
14
15
16
17
18
19

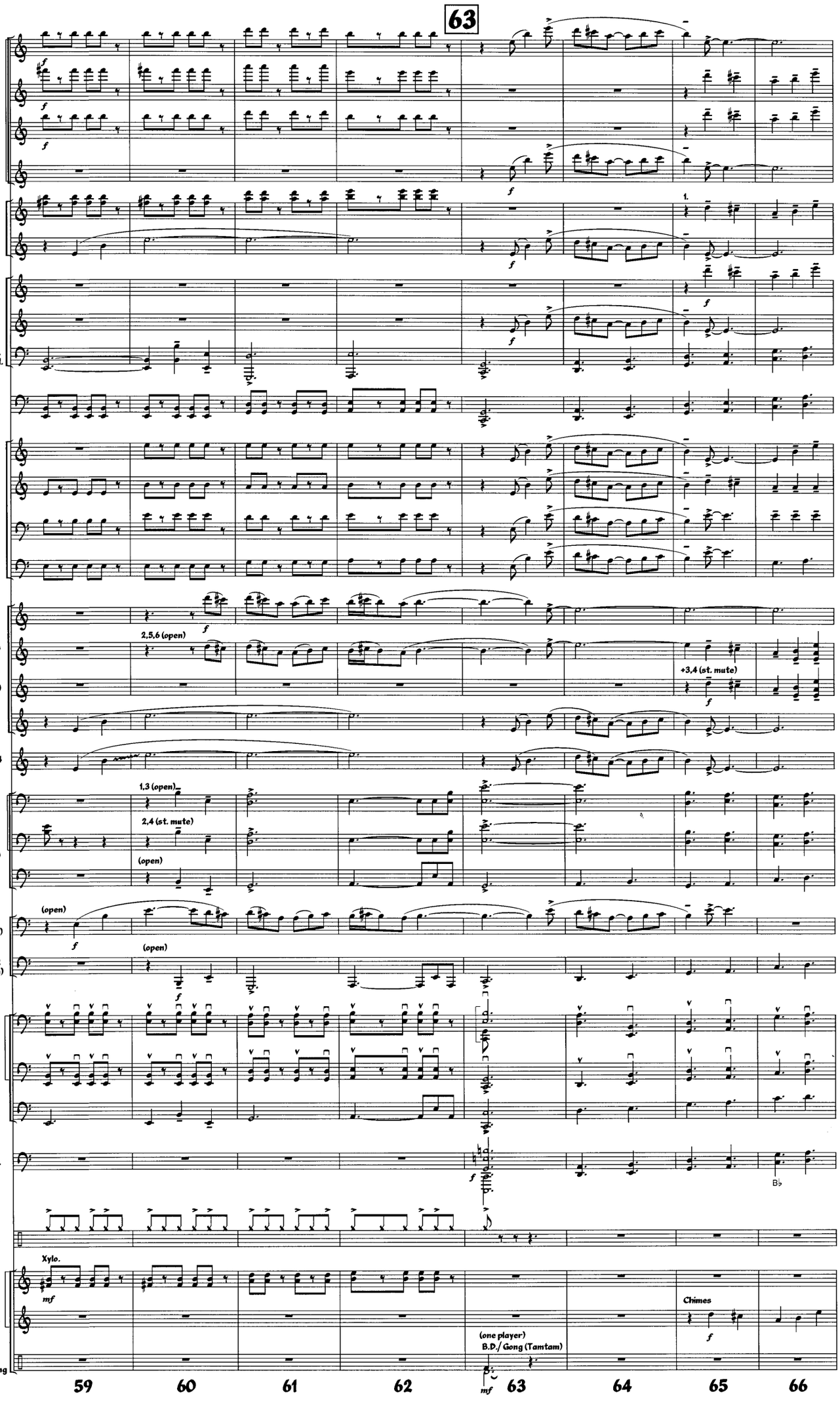

Cello 1,2
pizz.
mp
Str. Bs.
pizz.
mp
Hp.
mp
(8va)
Pno.
Drums
Crotales
Crotales
mf
20
21
22
23
24
25
26

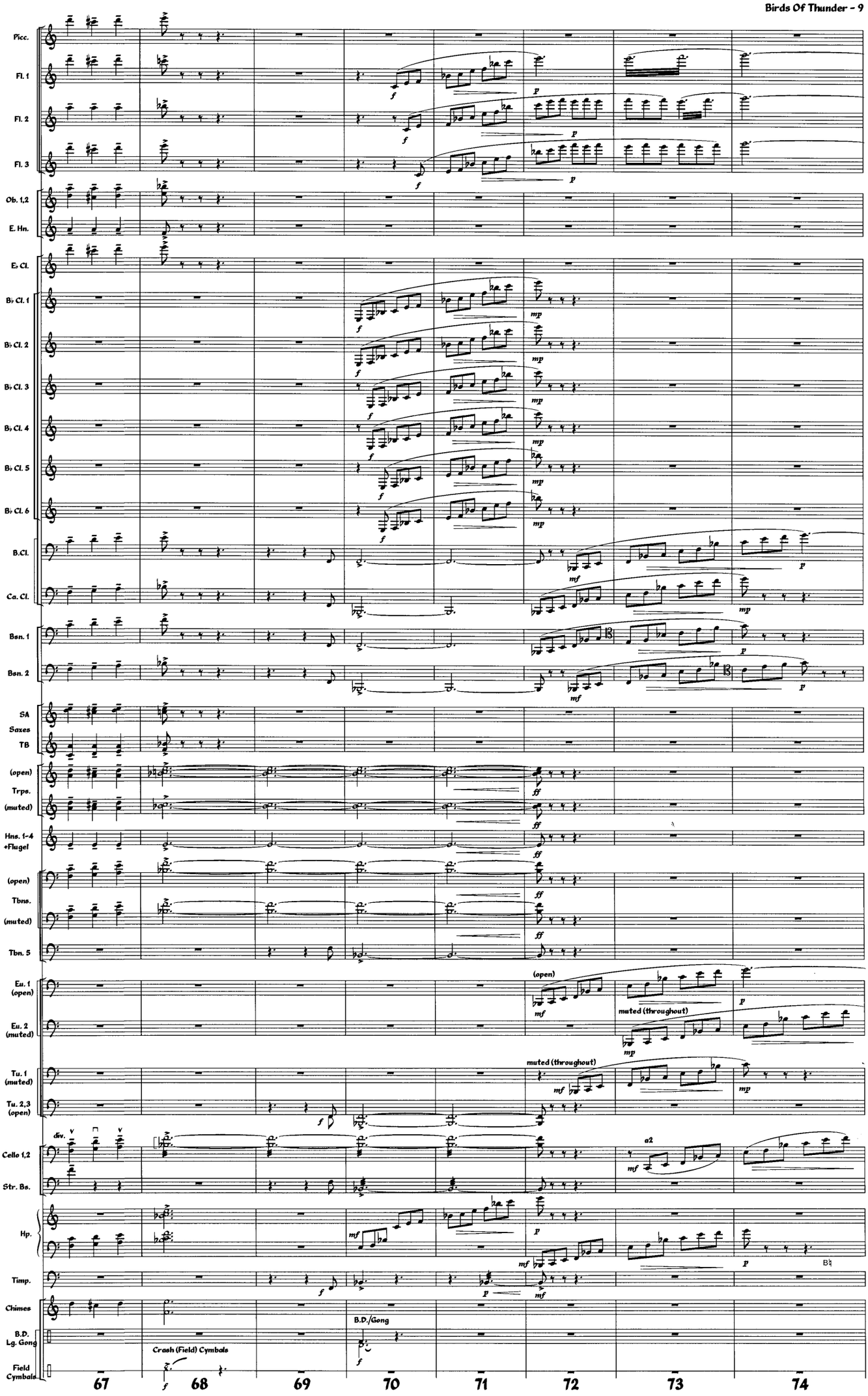

27
Picc.
Fl. 3
E♭ Cl.
B.Cl.
Ca. Cl.
Bsns.
S. Sx.
A. Sx.
T. Sx.
B. Sx.
Vcl. 1
Vcl. 2
Str. Bs.
Hp.
Pno.
Drums
Crotales
solo
arco
(8va)
27
28
29
30
31
32
33
34

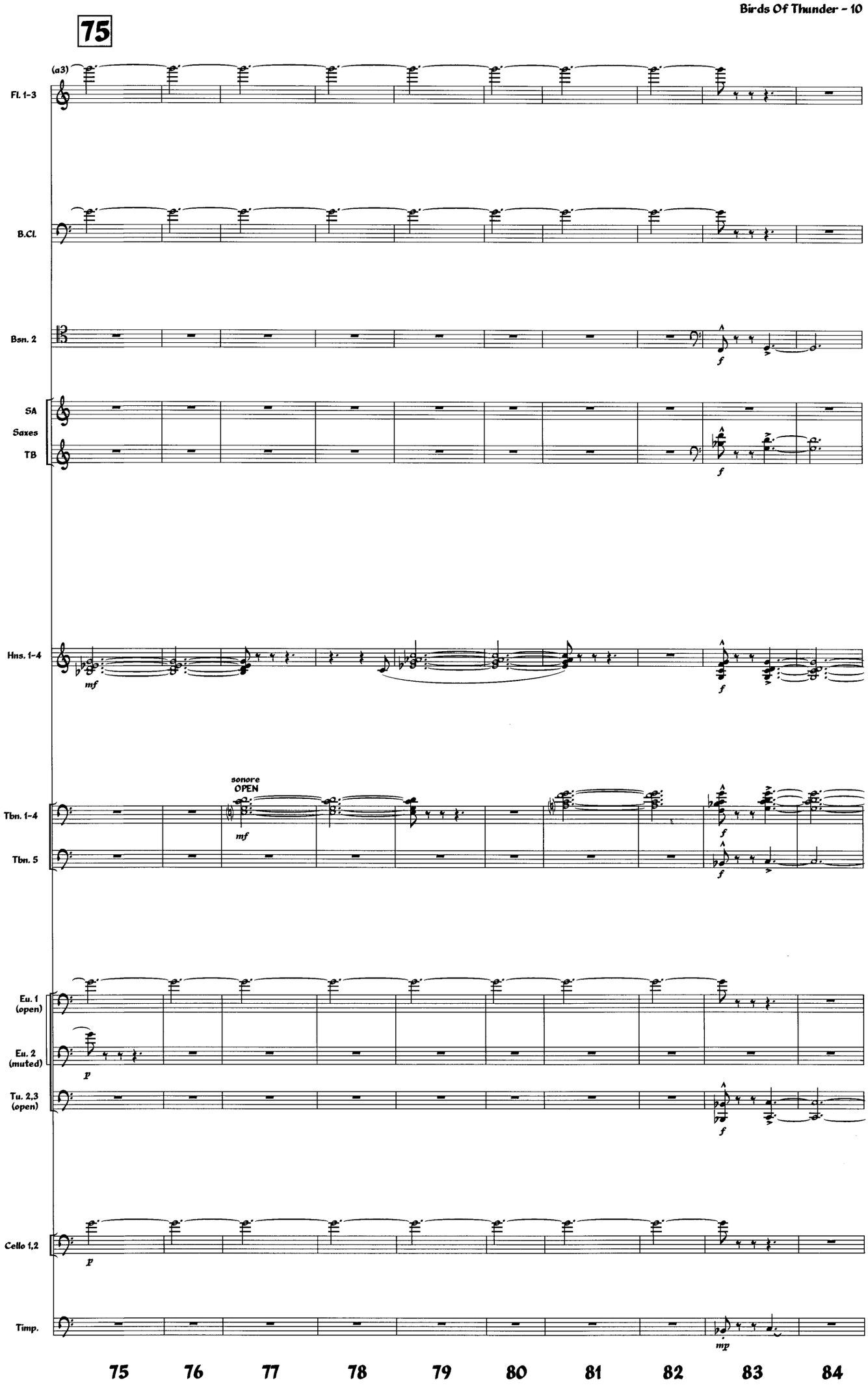

39
Picc.
Fl. 1
Fl. 2
Fl. 3
Ob. 1
Ob. 2
E. Hn.
E♭ Cl.
B♭ Cl. 1
B♭ Cl. 2
B♭ Cl. 3
B♭ Cl. 4
B♭ Cl. 5
B♭ Cl. 6
B. Cl.
Ca. Cl.
Bsns.
S. Sx.
A. Sx.
Saxes
T. Sx.
B. Sx.
Trp. 1 in D
Flugel
Hns. 1-4
Tbn. 1-4
Cello 1,2
Str. Bs.
Hp.
Pno.
Timp.
Drums
Bells
Crotales
a2
mf
f
p
mp
10
open
(throughout)
solo
Flugel Horn
(throughout)
OPEN
1,3 (open)
+2,4 (st. mute)
(8va)
C♯|E♭
med. hard mallets
Bells
35
36
37
38
39
40
41
42


Picc.
Fl. 1
Fl. 2
Fl. 3
E♭ Cl.
B♭ Cl. 1
B♭ Cl. 2
B♭ Cl. 3
B♭ Cl. 4
B♭ Cl. 5
B♭ Cl. 6
Trps. (open)
(open)
2.
5,6
Hns. 1-4 +Flugel
1,3 (open)
(open)
Tbns.
2,4 (st. mute)
(muted)
Tbn. 5
(open)
(open throughout)
Eu. 1 (open)
Tu. 2 (open)
(open throughout)
Cello 1,2
Str. Bs.
Timp.
Bells
mf
43
44
45
46
47
48
49
50

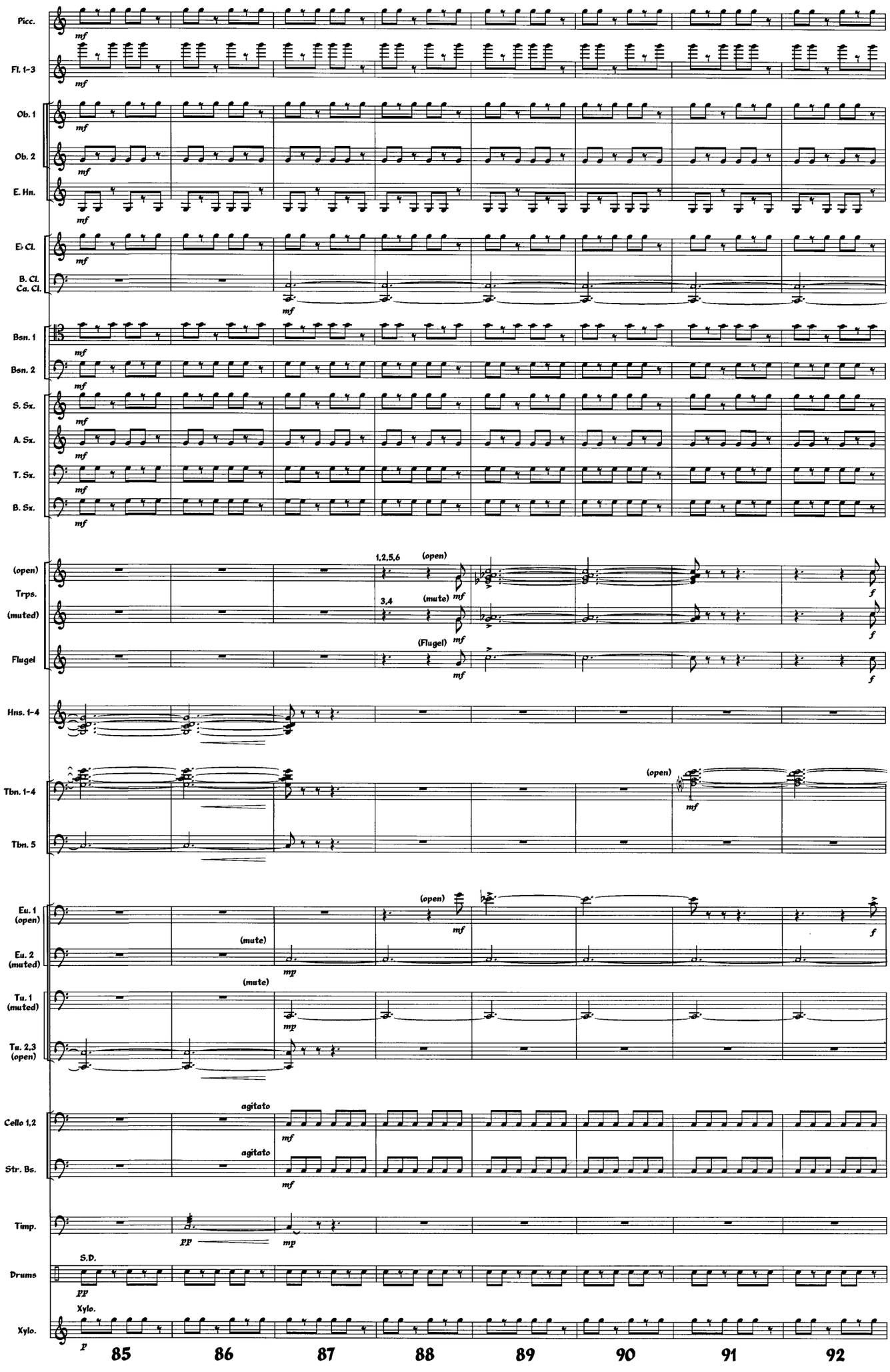

51
Picc.
Fl. 1
Fl. 2
Fl. 3
Ob. 1,2
E. Hn.
E♭ Cl.
B♭ Cls. 1-6
1,2
3-6
B. Cl.
Ca. Cl.
Bsns.
S. Sx.
A. Sx.
T. Sx.
B. Sx.
2,5,6 (open)
(open)
Trps.
3,4 ST. MUTE
(muted)
Hns. 1-4
+Flugel
2,4 (st. mute)
Tbns.
(muted)
Cello 1,2
Str. Bs.
Hi-Hat (all closed) w/sticks
Drums
Bells
Chimes
Chimes
51
52
53
54
55
56
57
58

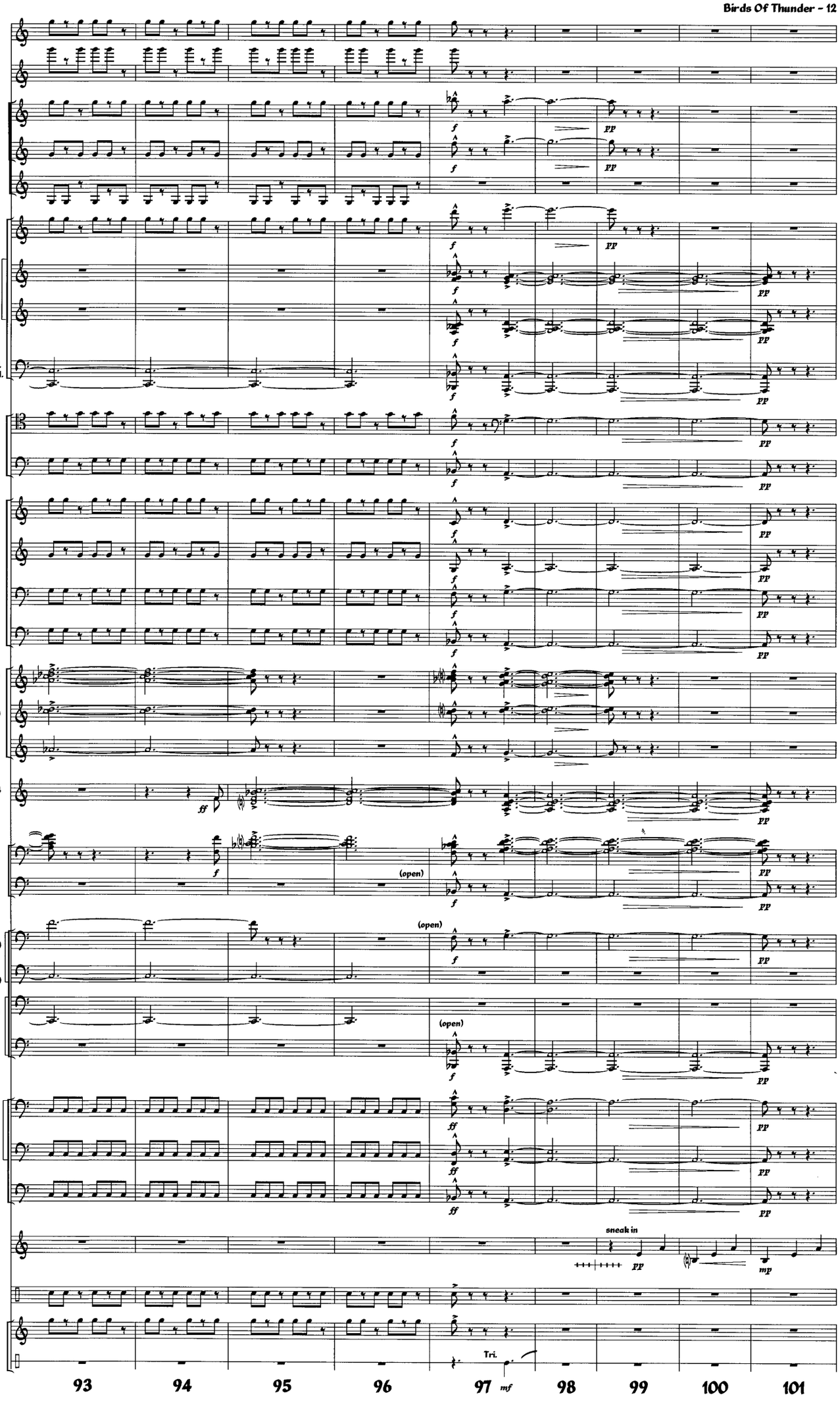

63
Picc.
Fl. 1
Fl. 2
Fl. 3
Ob. 1,2
E. Hn.
E♭ Cl.
B♭ Cls. 1-6
B. Cl.
Ca. Cl.
Bsns.
S. Sx.
A. Sx.
T. Sx.
B. Sx.
Trp. 1 in D
(open)
Trps.
(muted)
Flugel
Hns. 1-4
(open)
Tbns.
(muted)
Tbn. 5
Eu. 1
(open)
Tu. 2
(open)
Vcl. 1
Vcl. 2
Str. Bs.
Hp.
Drums
Xylo.
Chimes
B.D.
Lg. Gong
2,5,6 (open)
+3,4 (st. mute)
1,3 (open)
2,4 (st. mute)
(open)
(open)
(open)
1.
Xylo.
mf
Chimes
(one player)
B.D./ Gong (Tamtam)
mf
59
60
61
62
63
64
65
66

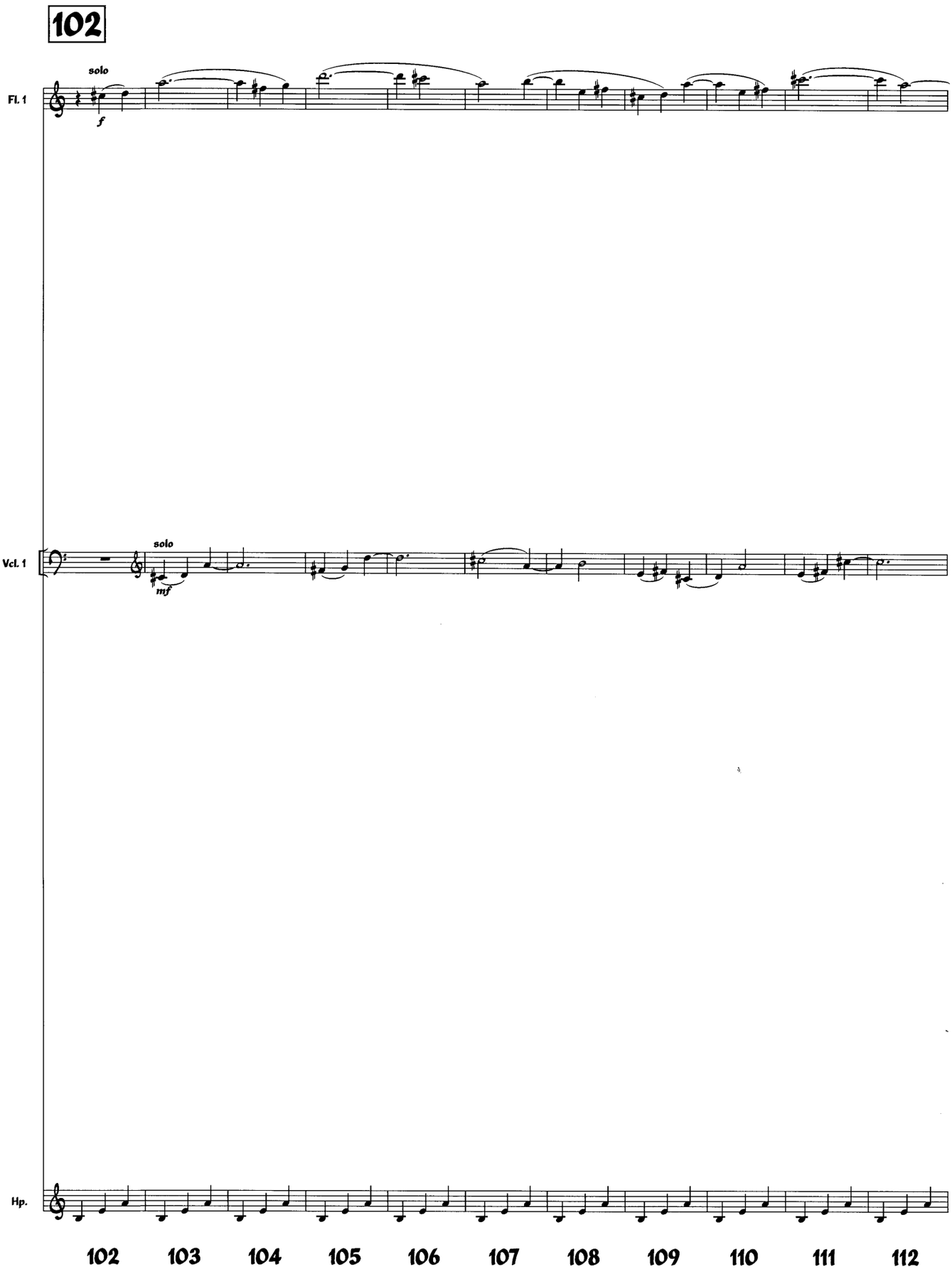

Picc.
Fl. 1
Fl. 2
Fl. 3
Ob. 1,2
E. Hn.
E♭ Cl.
B♭ Cl. 1
B♭ Cl. 2
B♭ Cl. 3
B♭ Cl. 4
B♭ Cl. 5
B♭ Cl. 6
B.Cl.
Ca. Cl.
Bsn. 1
Bsn. 2
SA
Saxes
TB
(open)
Trps.
(muted)
Hns. 1-4
+Flugel
(open)
Tbns.
(muted)
Tbn. 5
Eu. 1
(open)
Eu. 2
(muted)
Tu. 1
(muted)
Tu. 2,3
(open)
Cello 1,2
div.
Str. Bs.
Hp.
Timp.
Chimes
B.D.
Lg. Gong
Field
Cymbals
Crash (Field) Cymbals
B.D./Gong
muted (throughout)
a2
67
68
69
70
71
72
73
74

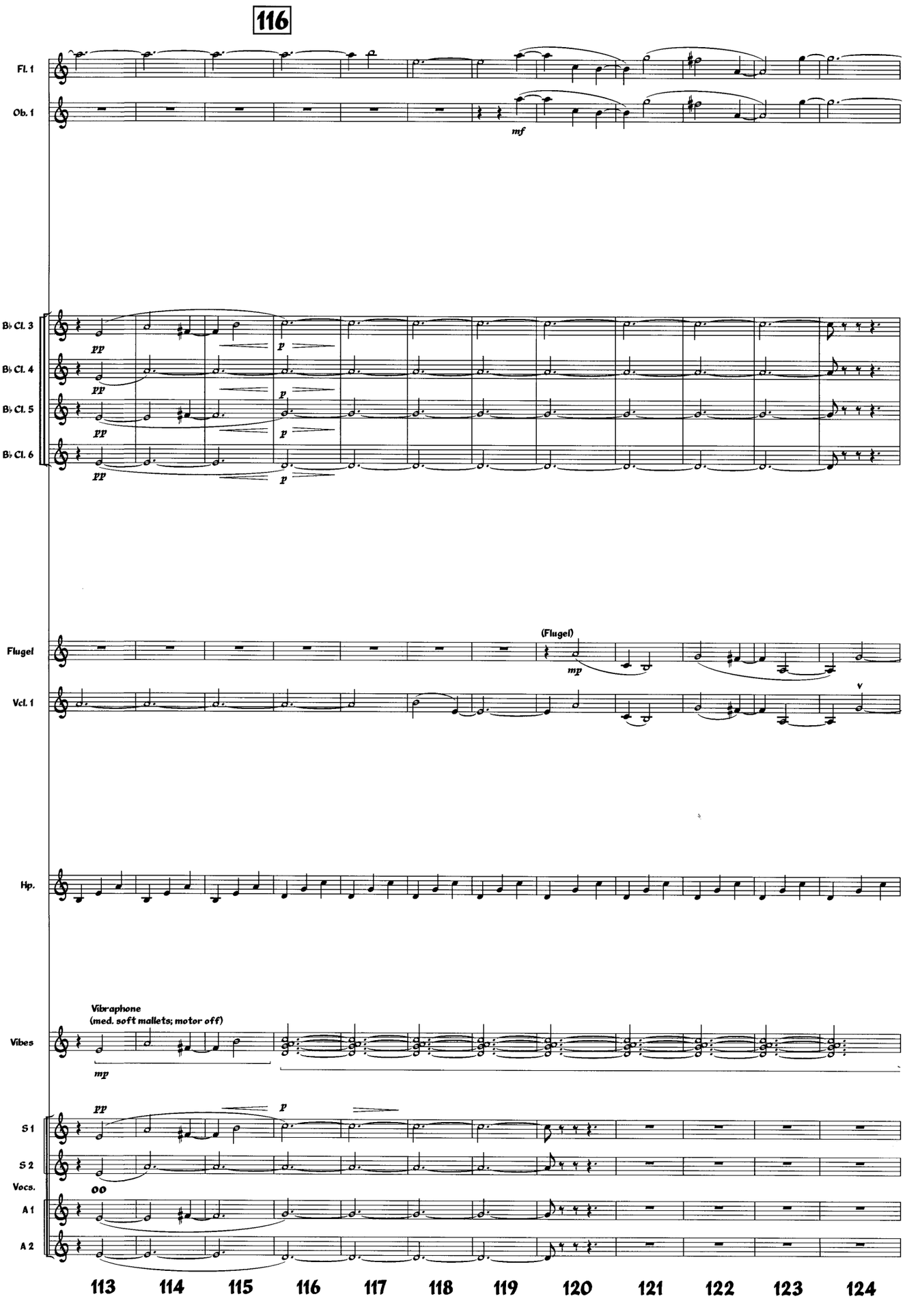

75
(a3)
Fl. 1-3
B.Cl.
Bsn. 2
SA
Saxes
TB
Hns. 1-4
Tbn. 1-4
Tbn. 5
Eu. 1 (open)
Eu. 2 (muted)
Tu. 2,3 (open)
Cello 1,2
Timp.
sonore
OPEN
mf
f
p
mp
75 76 77 78 79 80 81 82 83 84

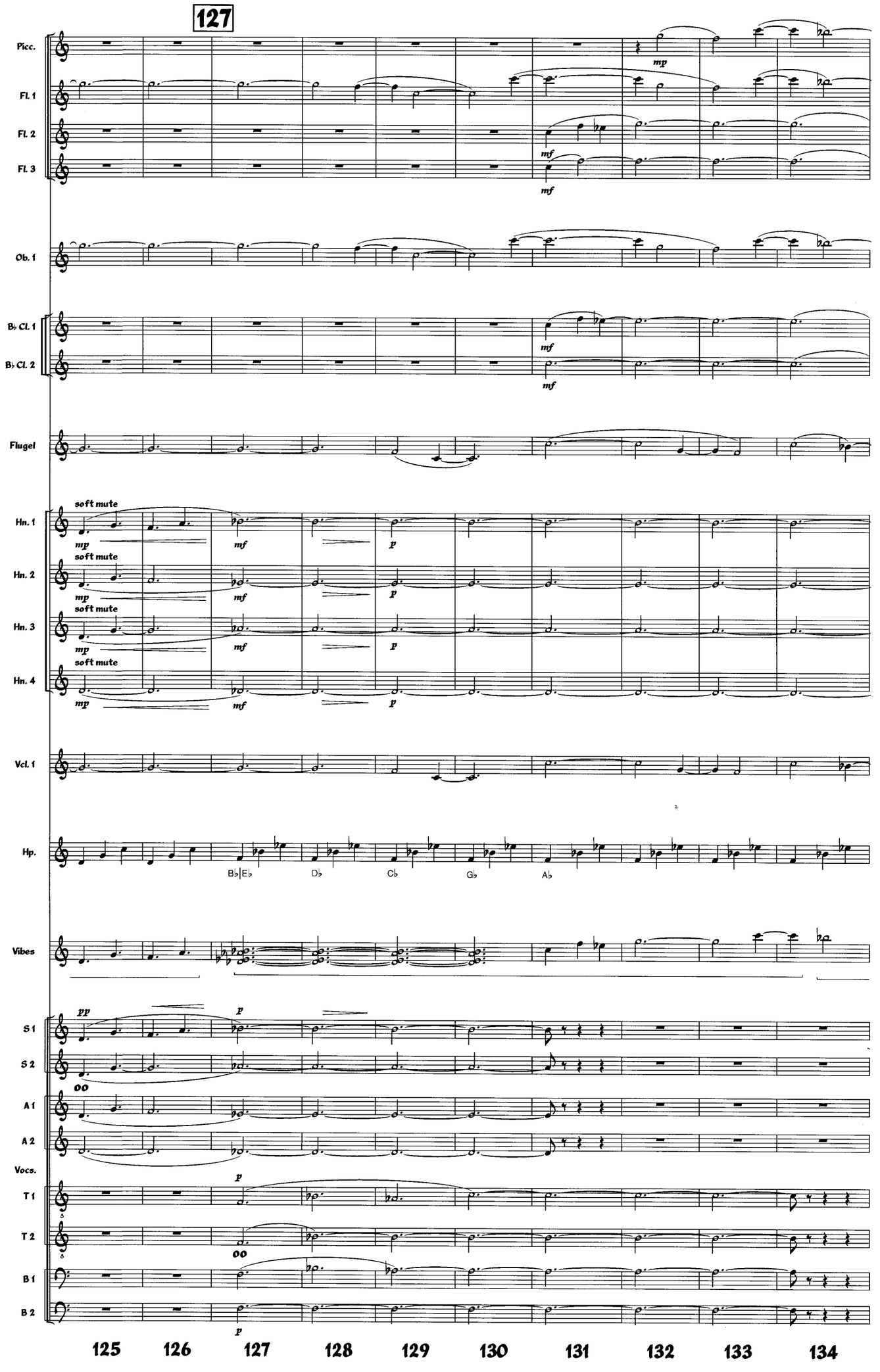
89

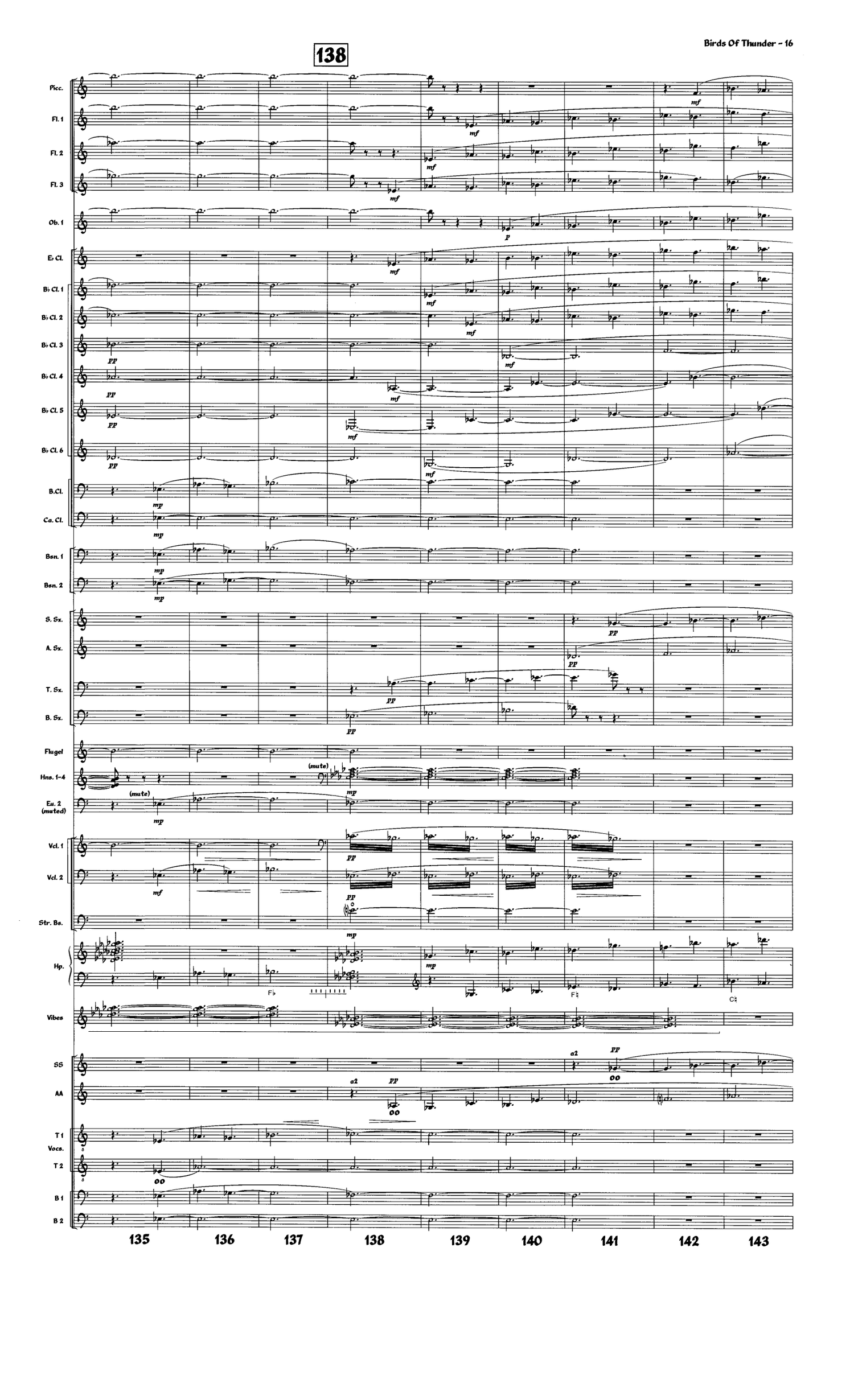

Picc.
Fl. 1-3
Ob. 1
Ob. 2
E. Hn.
E♭ Cl.
B. Cl.
Ca. Cl.
Bsn. 1
Bsn. 2
S. Sx.
A. Sx.
T. Sx.
B. Sx.
(open) Trps.
(muted)
Flugel
Hns. 1-4
Tbn. 1-4
Tbn. 5
Eu. 1 (open)
Eu. 2 (muted)
Tu. 1 (muted)
Tu. 2,3 (open)
Cello 1,2
Str. Bs.
Timp.
Drums
Xylo.
1,2,5,6
3,4
(open)
(mute)
(Flugel)
agitato
S.D.
85
86
87
88
89
90
91
92

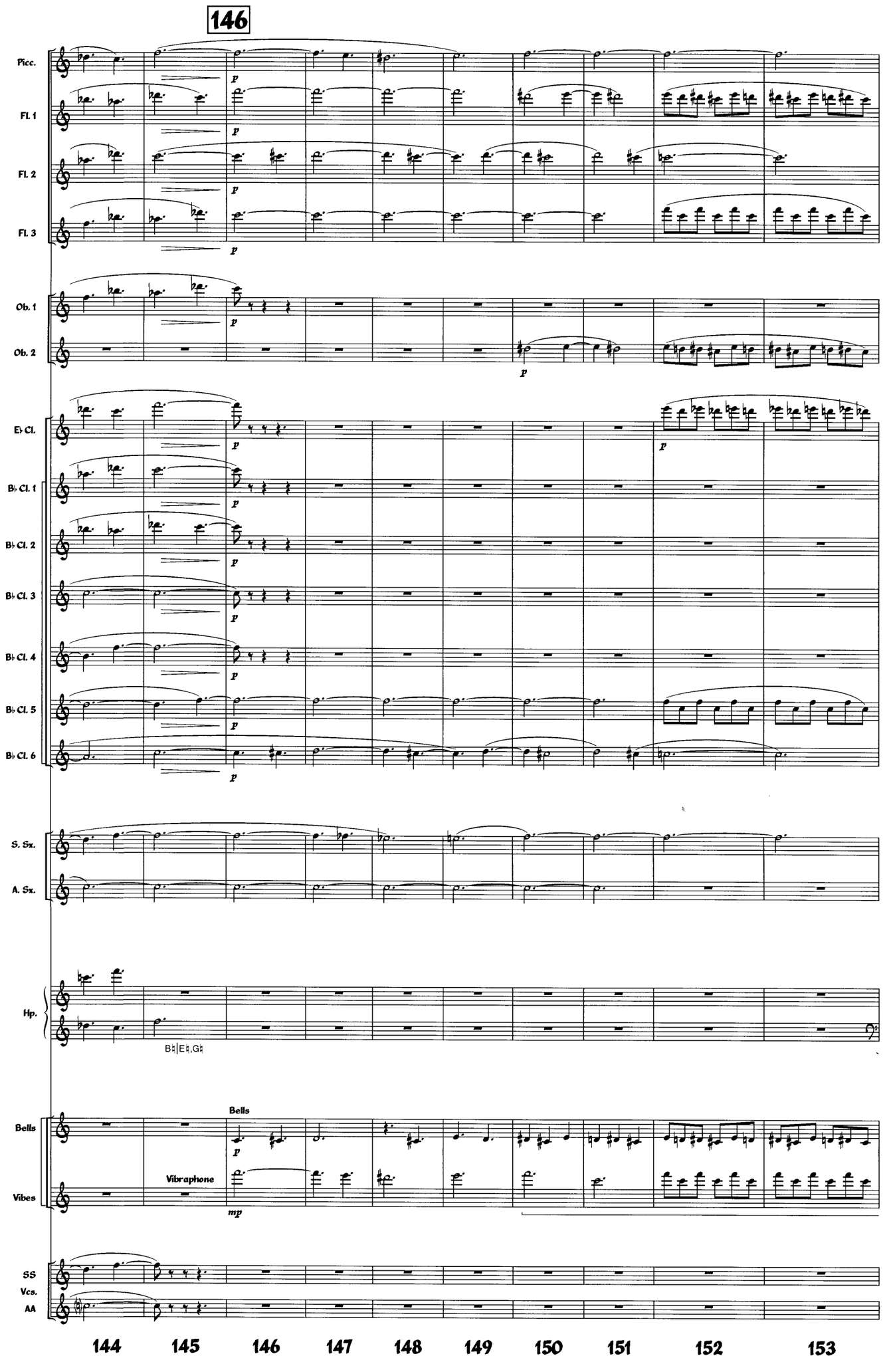

Picc.
Fl. 1-3
Ob. 1
Ob. 2
E. Hn.
E♭ Cl.
1 2 3 Cls. 4 5 6
B. Cl. Ca. Cl.
Bsn. 1
Bsn. 2
S. Sx.
A. Sx.
Saxes
T. Sx.
B. Sx.
(open) Trps. (muted)
Flugel
Hns. 1-4
Tbn. 1-4
Tbn. 5
Eu. 1 (open)
Eu. 2 (muted)
Tu. 1 (muted)
Tu. 2,3 (open)
Vcl. 1
Vcl. 2
Str. Bs.
Hp.
Drums
Xylo.
Trgl.
(open)
sneak in
Tri.
93
94
95
96
97
98
99
100
101

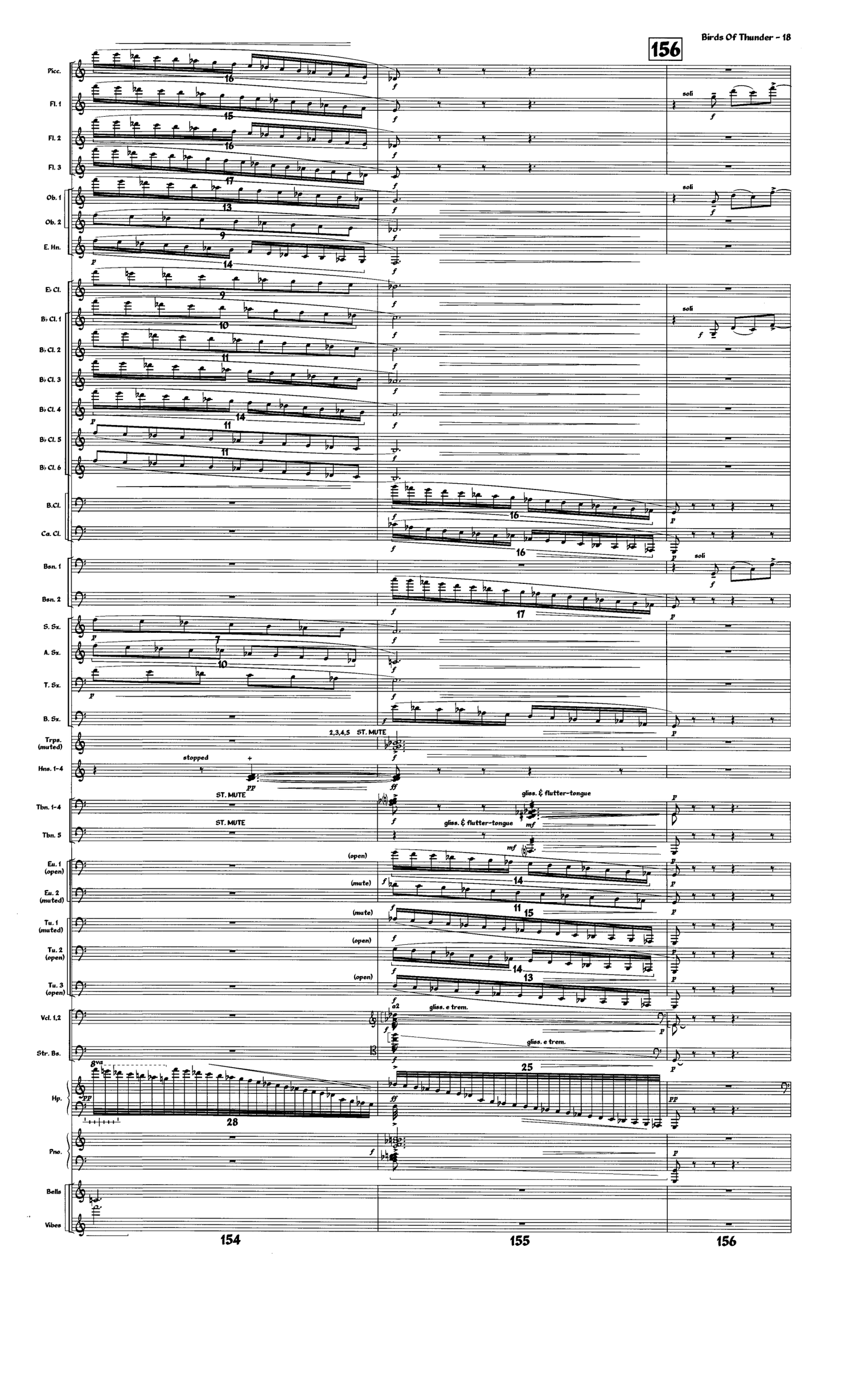

102
solo
Fl. 1
f
solo
Vcl. 1
mf
Hp.
102
103
104
105
106
107
108
109
110
111
112

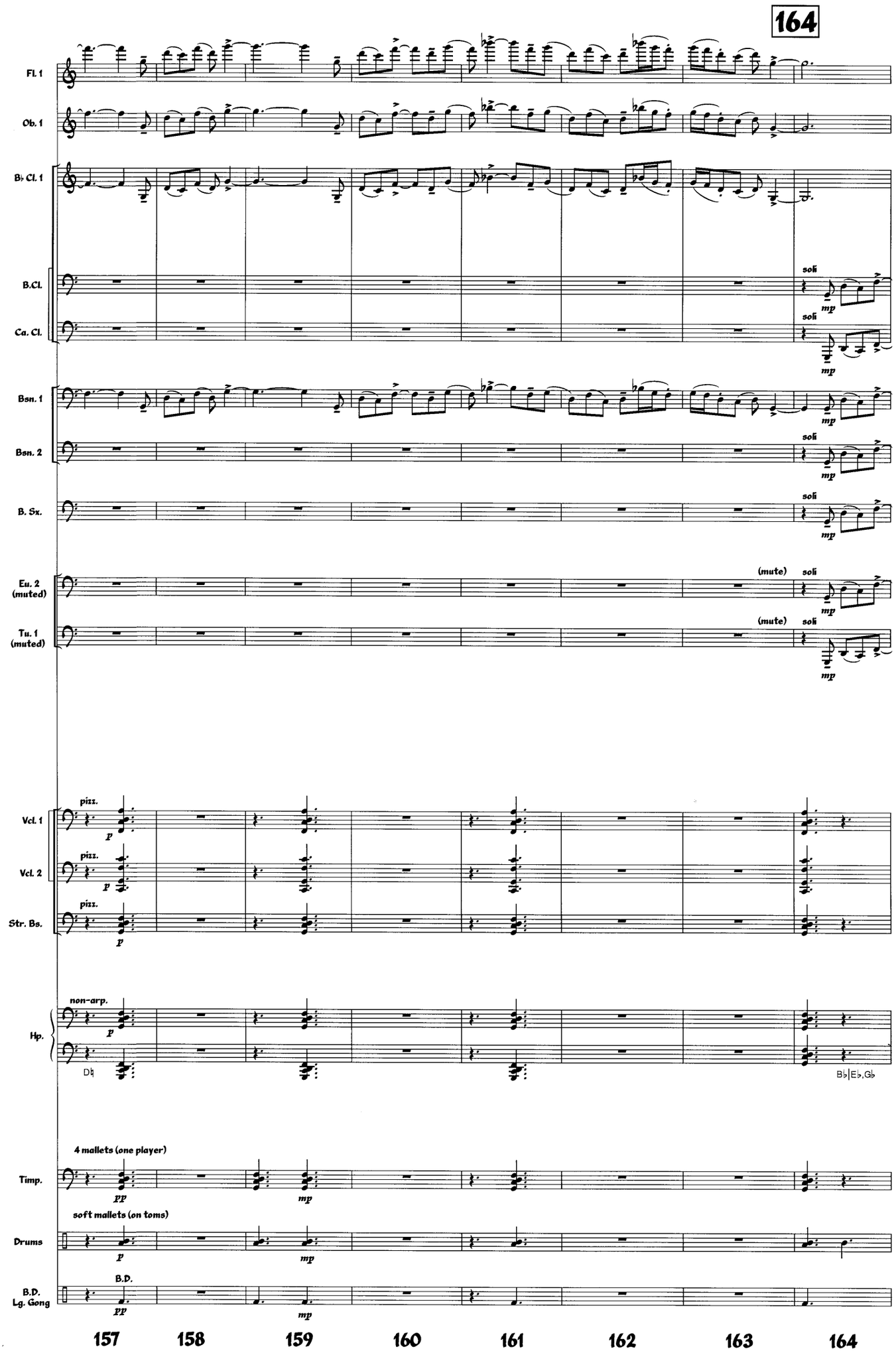

116
Fl. 1
Ob. 1
mf
B♭ Cl. 3
B♭ Cl. 4
B♭ Cl. 5
B♭ Cl. 6
pp
p
Flugel
(Flugel)
mp
Vcl. 1
Hp.
Vibraphone
(med. soft mallets; motor off)
Vibes
S 1
S 2
Vocs.
A 1
A 2
oo
113
114
115
116
117
118
119
120
121
122
123
124

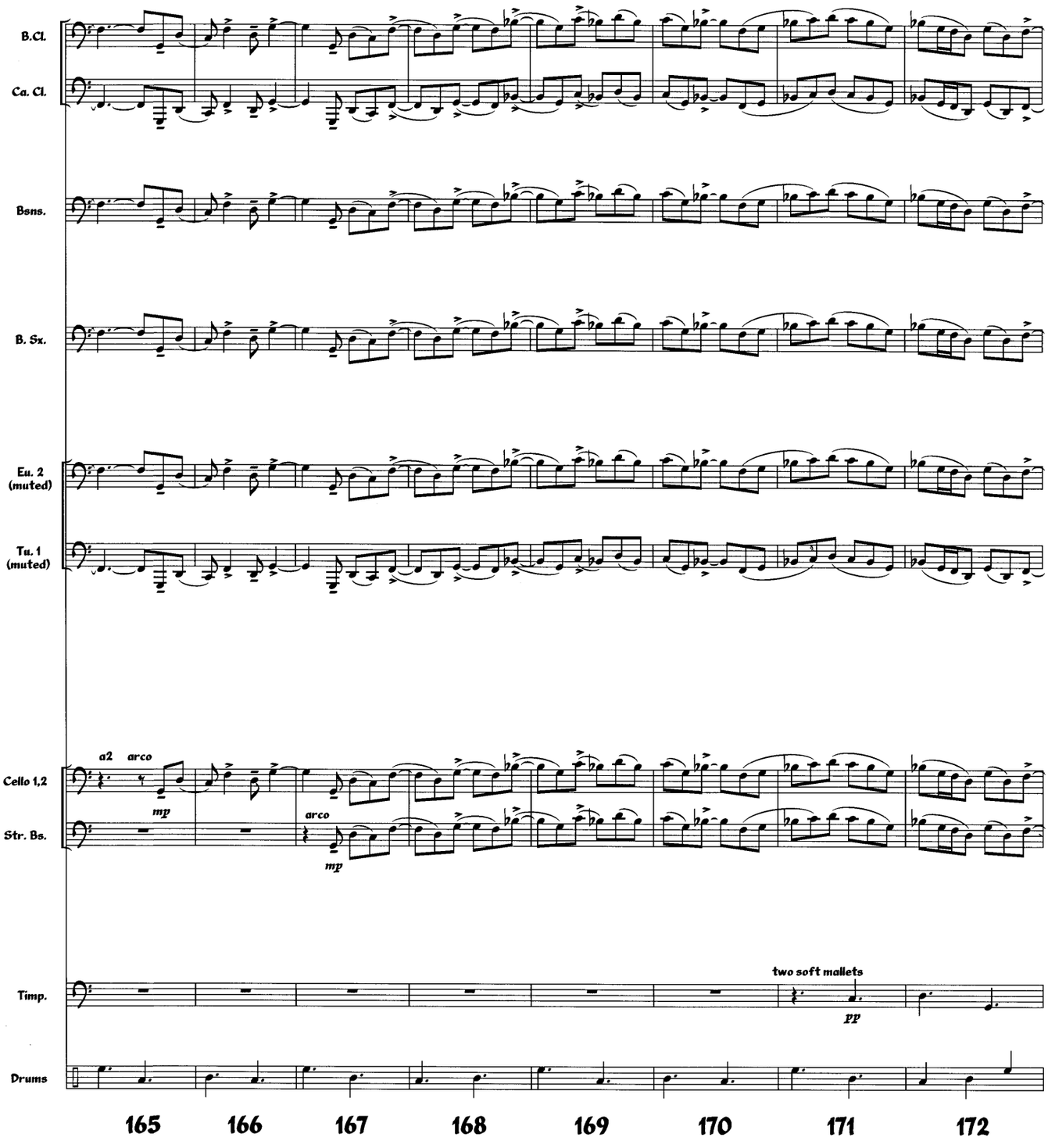

127
Picc.
Fl. 1
Fl. 2
Fl. 3
Ob. 1
B♭ Cl. 1
B♭ Cl. 2
Flugel
Hn. 1
Hn. 2
Hn. 3
Hn. 4
soft mute
Vcl. 1
Hp.
B♭ E♭
D♭
C♭
G♭
A♭
Vibes
S 1
S 2
A 1
A 2
Vocs.
T 1
T 2
B 1
B 2
125
126
127
128
129
130
131
132
133
134

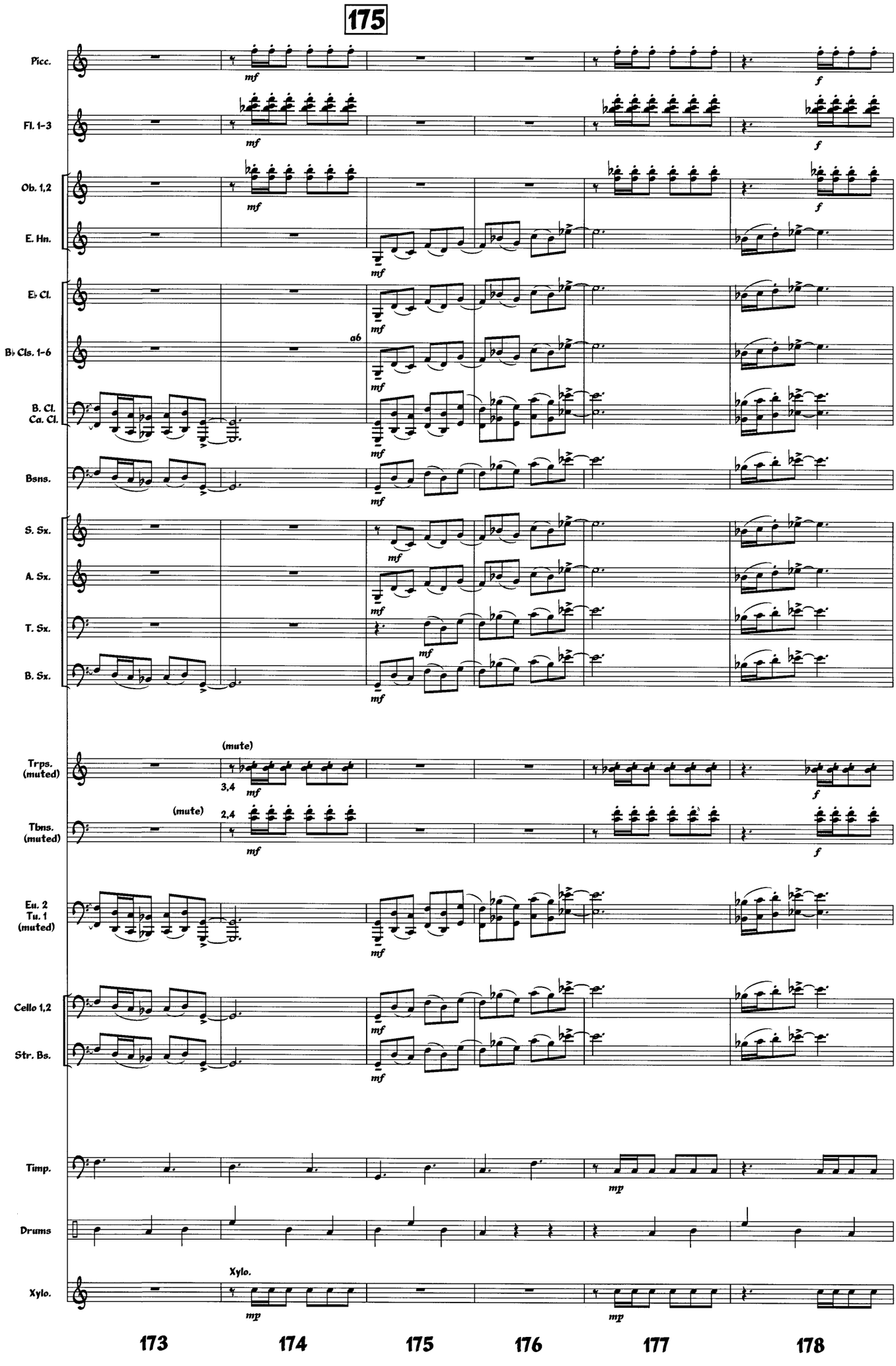

138
Picc.
Fl. 1
Fl. 2
Fl. 3
Ob. 1
E♭ Cl.
B♭ Cl. 1
B♭ Cl. 2
B♭ Cl. 3
B♭ Cl. 4
B♭ Cl. 5
B♭ Cl. 6
B.Cl.
Ca. Cl.
Bsn. 1
Bsn. 2
S. Sx.
A. Sx.
T. Sx.
B. Sx.
Flugel
Hns. 1-4
(mute)
Eu. 2 (muted)
(mute)
Vcl. 1
Vcl. 2
Str. Bs.
Hp.
Vibes
SS
AA
T 1
Vocs.
T 2
B 1
B 2
a2
135
136
137
138
139
140
141
142
143

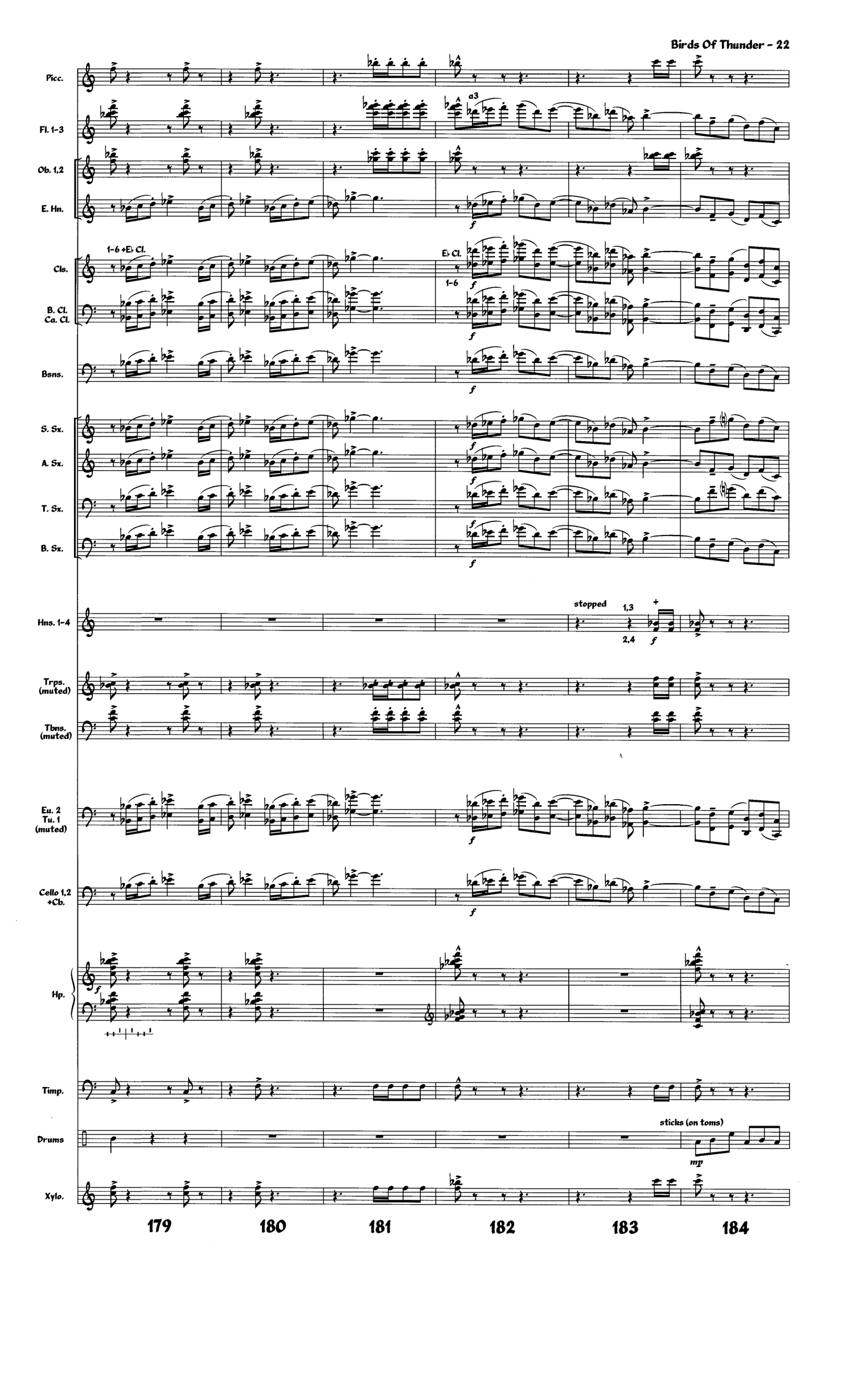

146
Picc.
Fl. 1
Fl. 2
Fl. 3
Ob. 1
Ob. 2
E♭ Cl.
B♭ Cl. 1
B♭ Cl. 2
B♭ Cl. 3
B♭ Cl. 4
B♭ Cl. 5
B♭ Cl. 6
S. Sx.
A. Sx.
Hp.
B♮ E♮ G♮
Bells
Vibraphone
Vibes
SS
Vcs.
AA
144
145
146
147
148
149
150
151
152
153

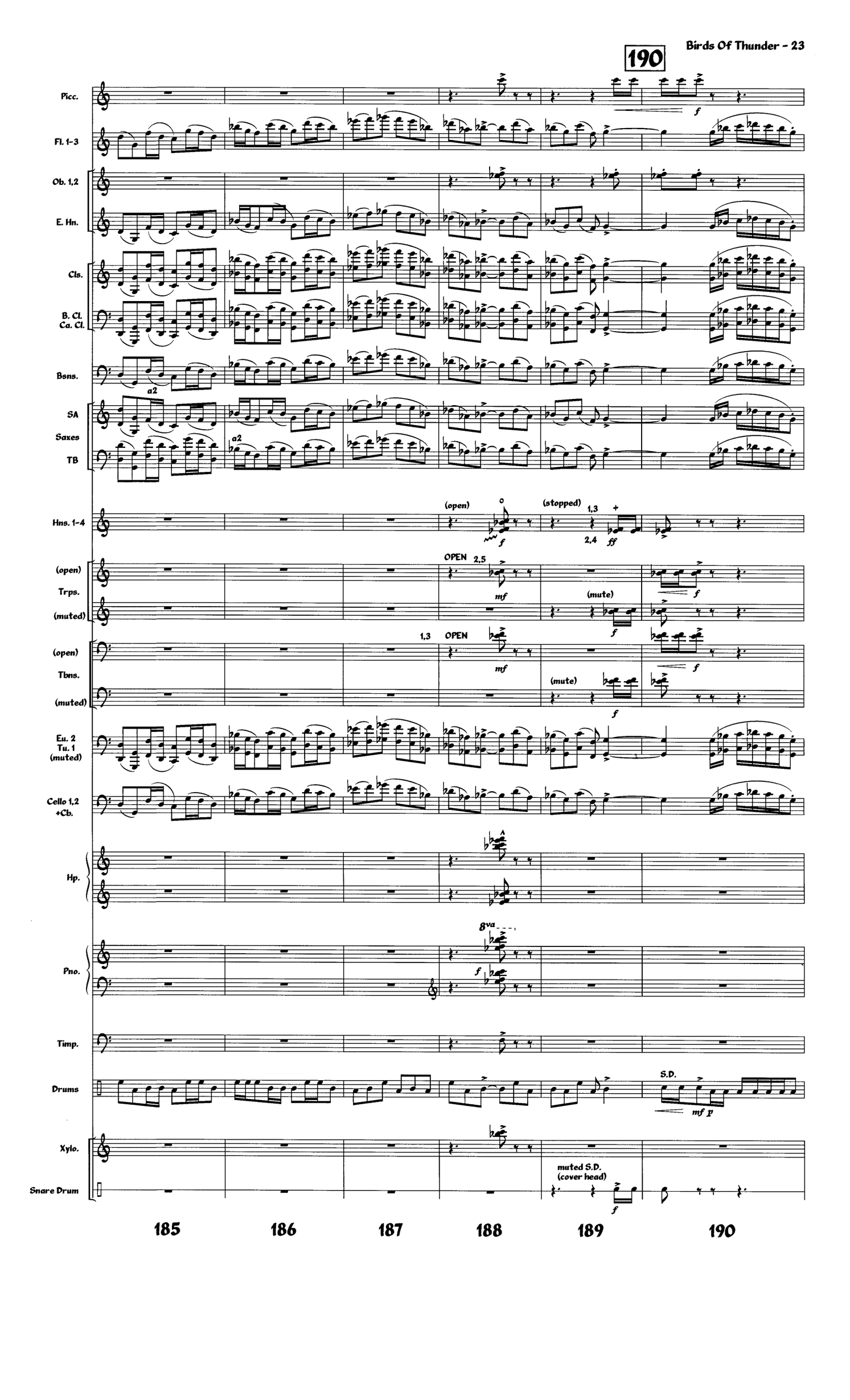

156
Picc.
Fl. 1
Fl. 2
Fl. 3
Ob. 1
Ob. 2
E. Hn.
E♭ Cl.
B♭ Cl. 1
B♭ Cl. 2
B♭ Cl. 3
B♭ Cl. 4
B♭ Cl. 5
B♭ Cl. 6
B.Cl.
Ca. Cl.
Bsn. 1
Bsn. 2
S. Sx.
A. Sx.
T. Sx.
B. Sx.
Trps. (muted)
Hns. 1-4
Tbn. 1-4
Tbn. 5
Eu. 1 (open)
Eu. 2 (muted)
Tu. 1 (muted)
Tu. 2 (open)
Tu. 3 (open)
Vcl. 1,2
Str. Bs.
Hp.
Pno.
Bells
Vibes
soli
2,3,4,5 ST. MUTE
stopped
ST. MUTE
gliss. & flutter-tongue
(open)
(mute)
a2
gliss. e trem.
8va
154
155
156

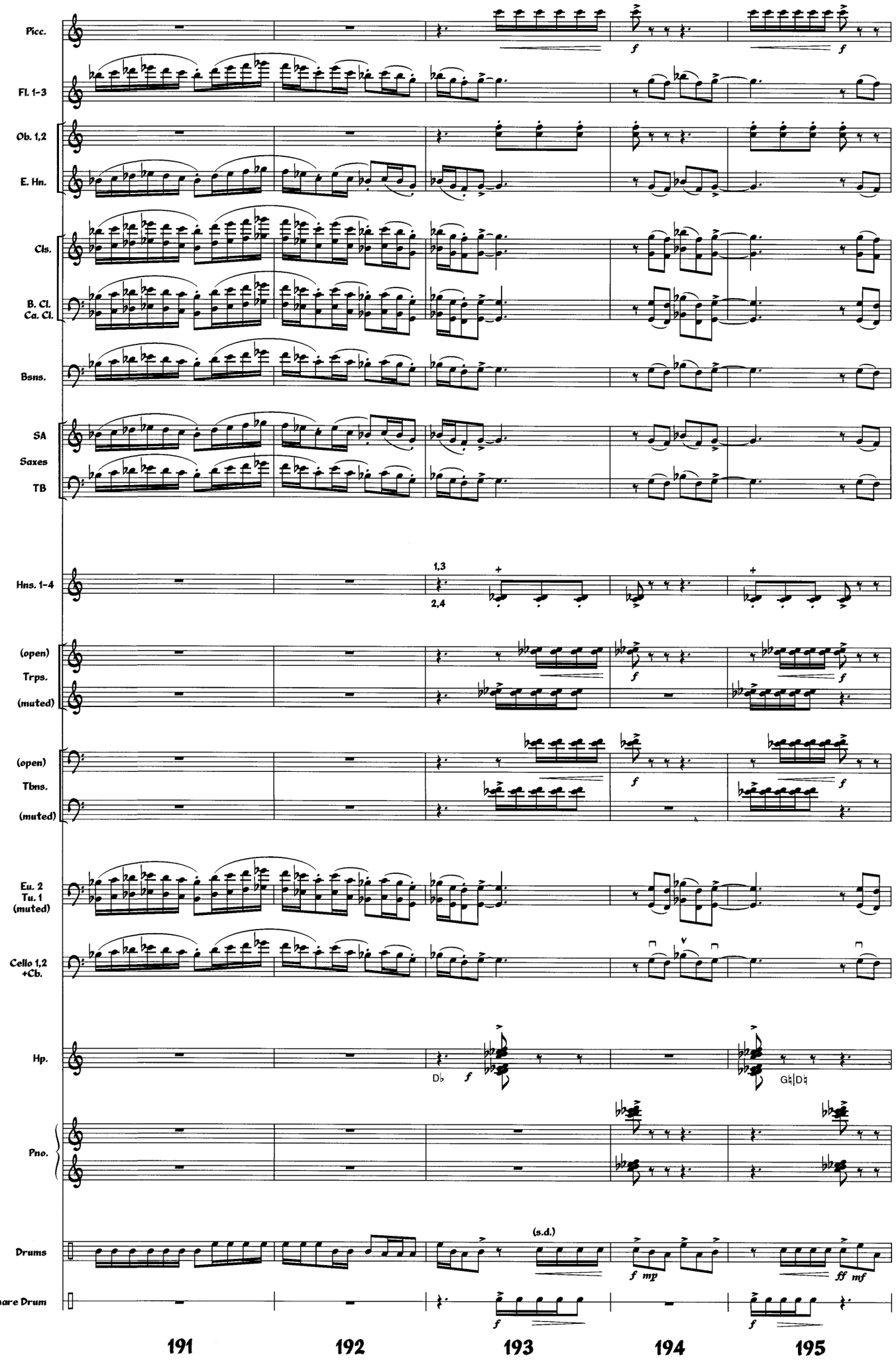

164
Fl. 1
Ob. 1
B♭ Cl. 1
B.Cl.
Ca. Cl.
Bsn. 1
Bsn. 2
B. Sx.
Eu. 2 (muted)
Tu. 1 (muted)
Vcl. 1
Vcl. 2
Str. Bs.
Hp.
Timp.
Drums
B.D. Lg. Gong
soli
(mute)
pizz.
non-arp.
4 mallets (one player)
soft mallets (on toms)
B.D.
157
158
159
160
161
162
163
164

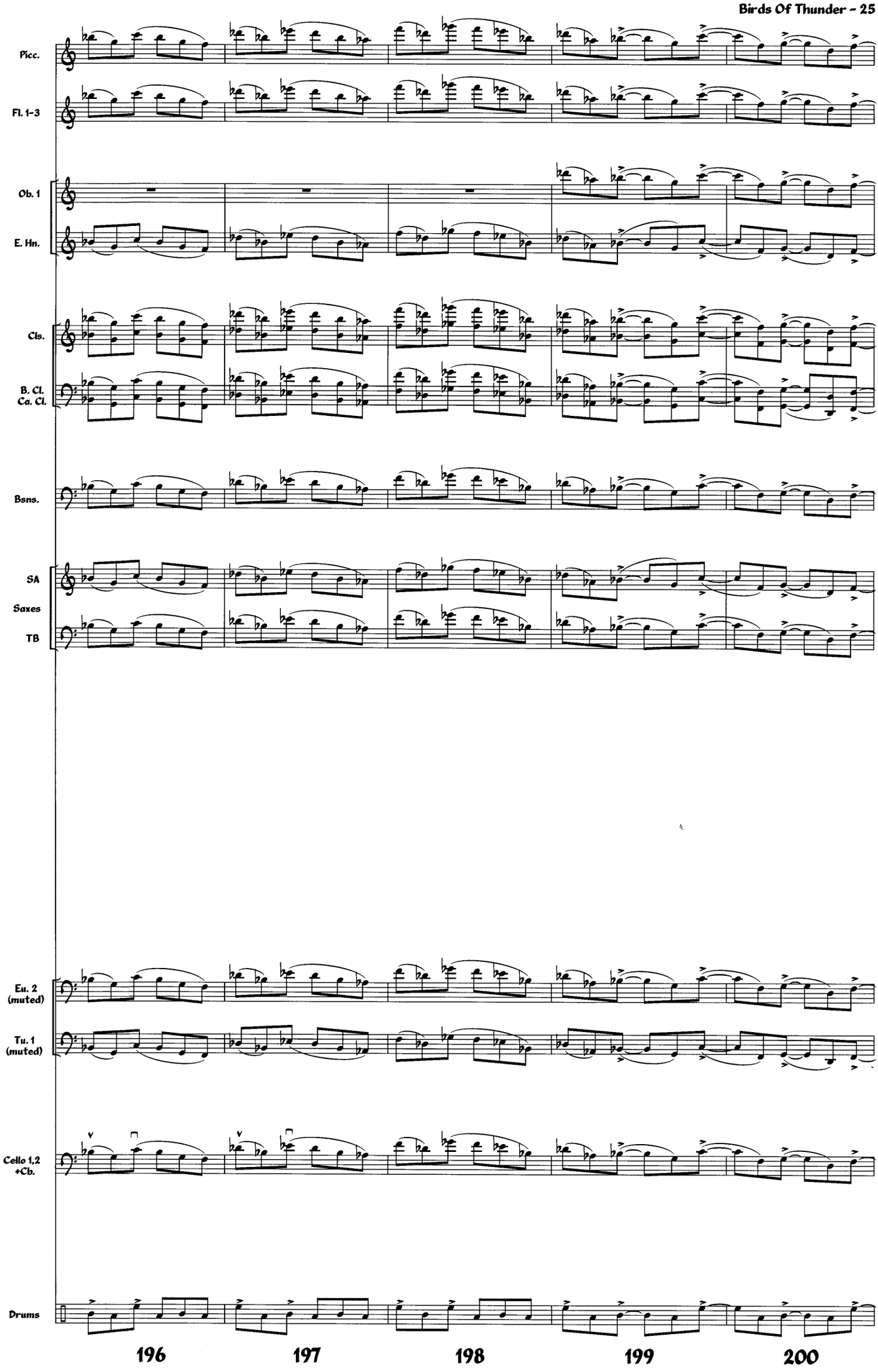

B.Cl.
Ca. Cl.
Bsns.
B. Sx.
Eu. 2 (muted)
Tu. 1 (muted)
Cello 1,2
a2
arco
mp
Str. Bs.
arco
mp
Timp.
two soft mallets
pp
Drums
165
166
167
168
169
170
171
172

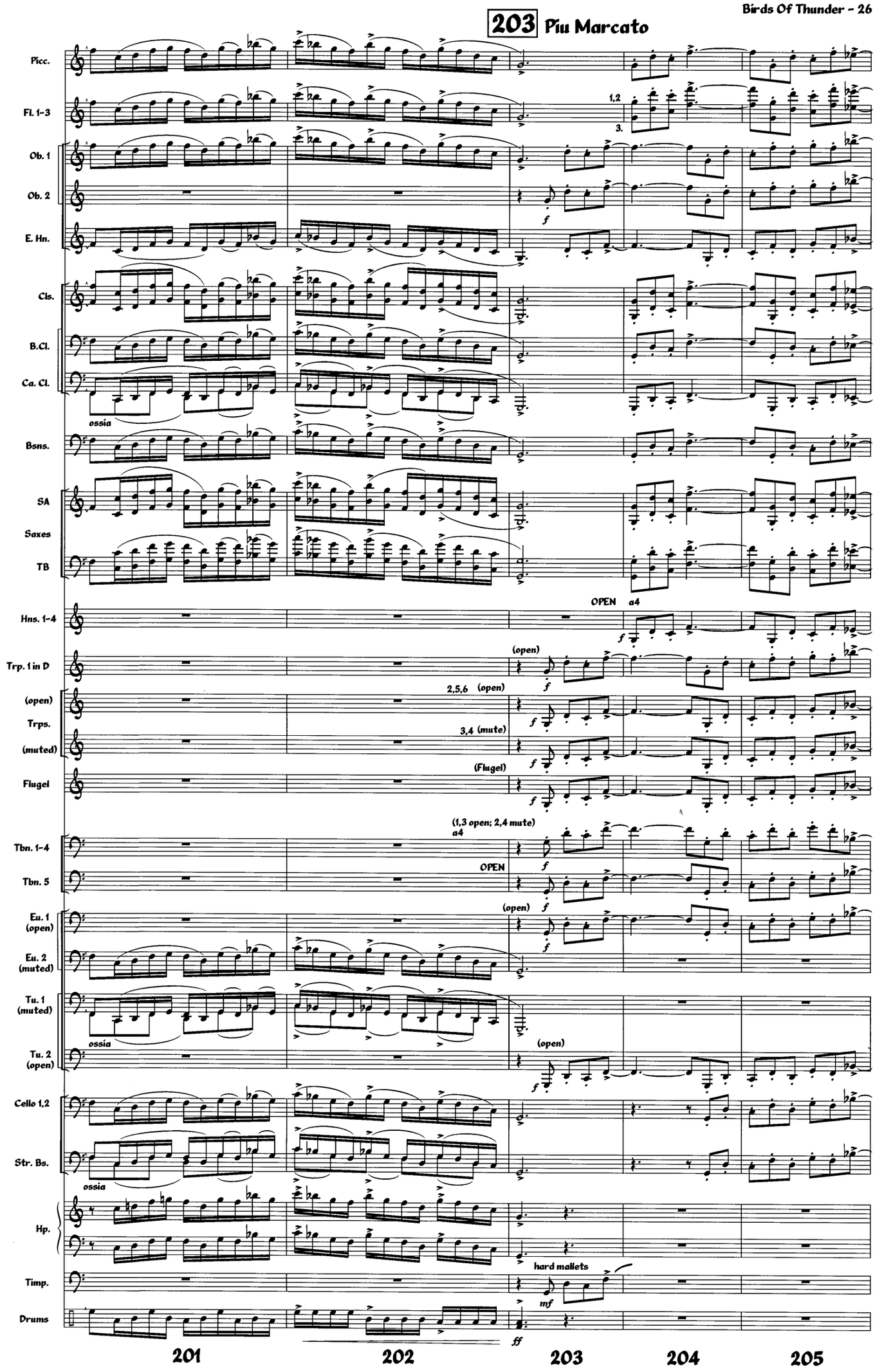

175
Picc.
Fl. 1-3
Ob. 1,2
E. Hn.
E♭ Cl.
B♭ Cls. 1-6
a6
B. Cl.
Ca. Cl.
Bsns.
S. Sx.
A. Sx.
T. Sx.
B. Sx.
Trps. (muted)
(mute)
3,4
Tbns. (muted)
(mute)
2,4
Eu. 2
Tu. 1 (muted)
Cello 1,2
Str. Bs.
Timp.
Drums
Xylo.
Xylo.
mf
f
mp
173
174
175
176
177
178

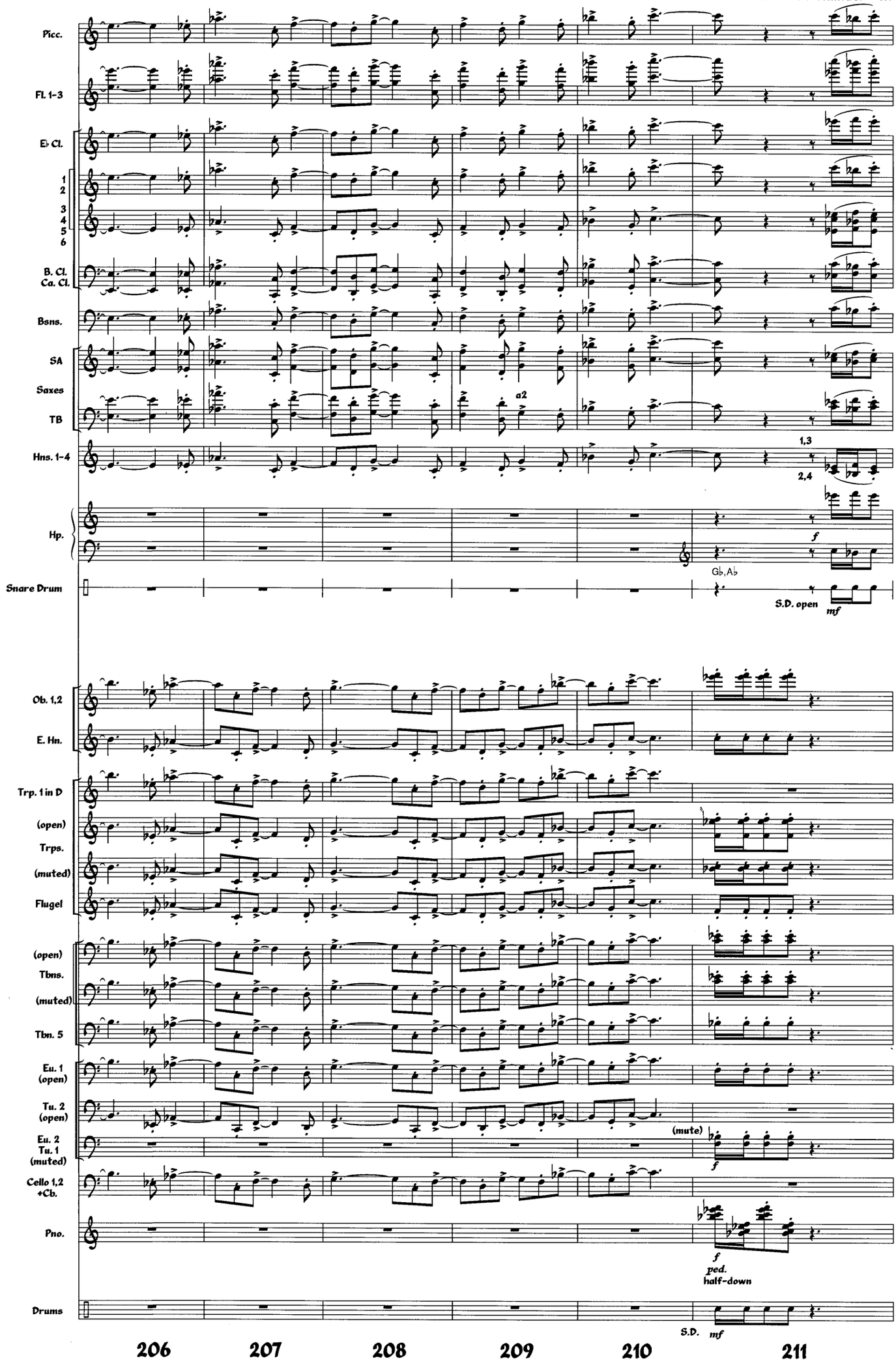

Picc.
Fl. 1-3
Ob. 1,2
E. Hn.
Cls.
B. Cl.
Ca. Cl.
Bsns.
S. Sx.
A. Sx.
T. Sx.
B. Sx.
Hns. 1-4
Trps. (muted)
Tbns. (muted)
Eu. 2
Tu. 1 (muted)
Cello 1,2 +Cb.
Hp.
Timp.
Drums
Xylo.
1-6 +E♭ Cl.
E♭ Cl.
1-6
a3
stopped
1,3
2,4
sticks (on toms)
mp
179
180
181
182
183
184

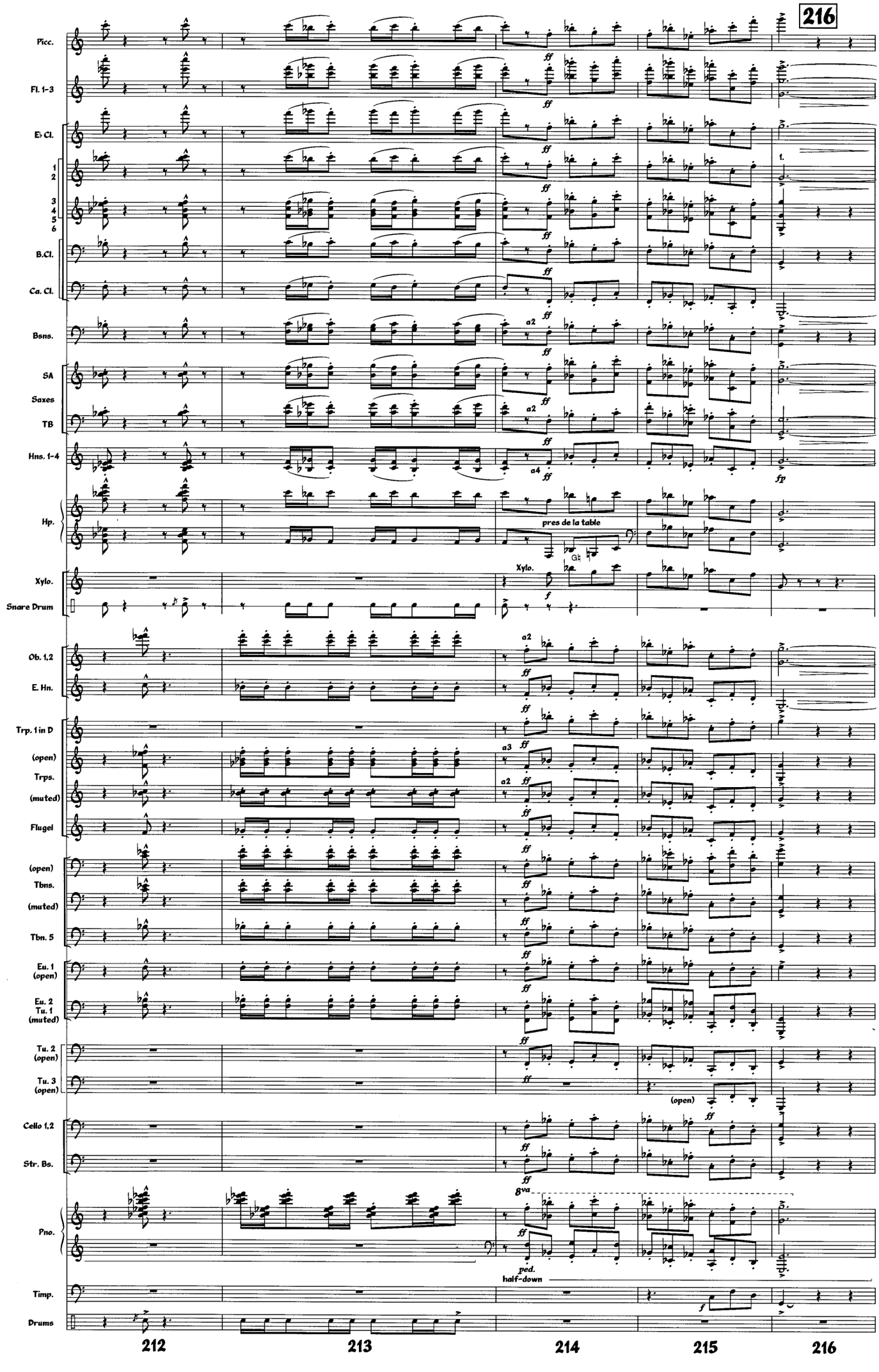

190
Picc.
Fl. 1-3
Ob. 1,2
E. Hn.
Cls.
B. Cl.
Ca. Cl.
Bsns.
a2
SA
Saxes
TB
a2
Hns. 1-4
(open)
(stopped)
1,3
2,4
Trps.
(open)
(muted)
OPEN
2,5
(mute)
Tbns.
(open)
(muted)
1,3
OPEN
(mute)
Eu. 2
Tu. 1
(muted)
Cello 1,2
+Cb.
Hp.
Pno.
8va
Timp.
Drums
S.D.
Xylo.
Snare Drum
muted S.D.
(cover head)
185
186
187
188
189
190

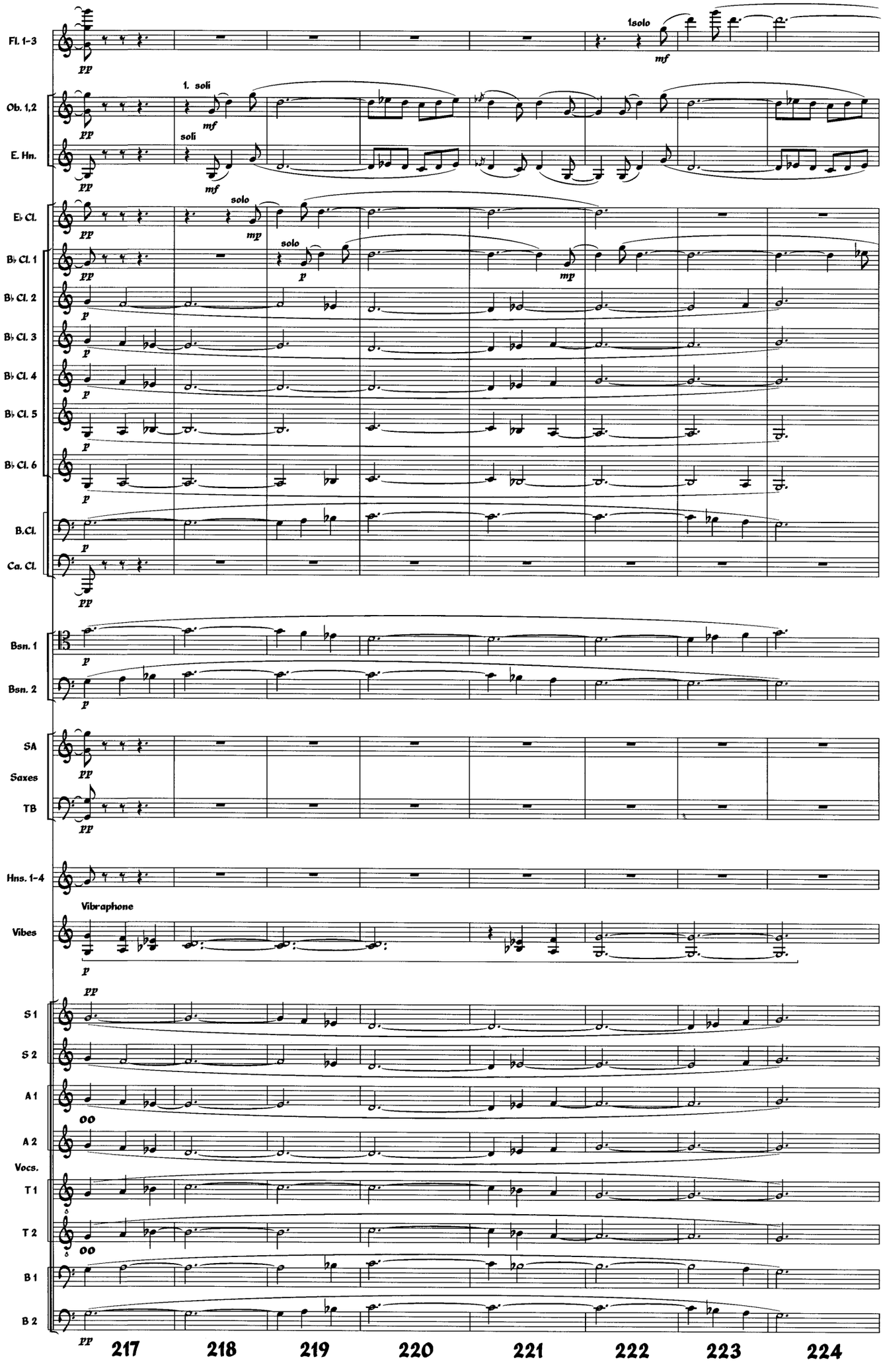

Picc.
Fl. 1-3
Ob. 1,2
E. Hn.
Cls.
B. Cl.
Ca. Cl.
Bsns.
SA
Saxes
TB
Hns. 1-4
1,3
2,4
(open)
Trps.
(muted)
(open)
Tbns.
(muted)
Eu. 2
Tu. 1
(muted)
Cello 1,2
+Cb.
Hp.
Db
Gb|Db
Pno.
Drums
(s.d.)
Snare Drum
191
192
193
194
195

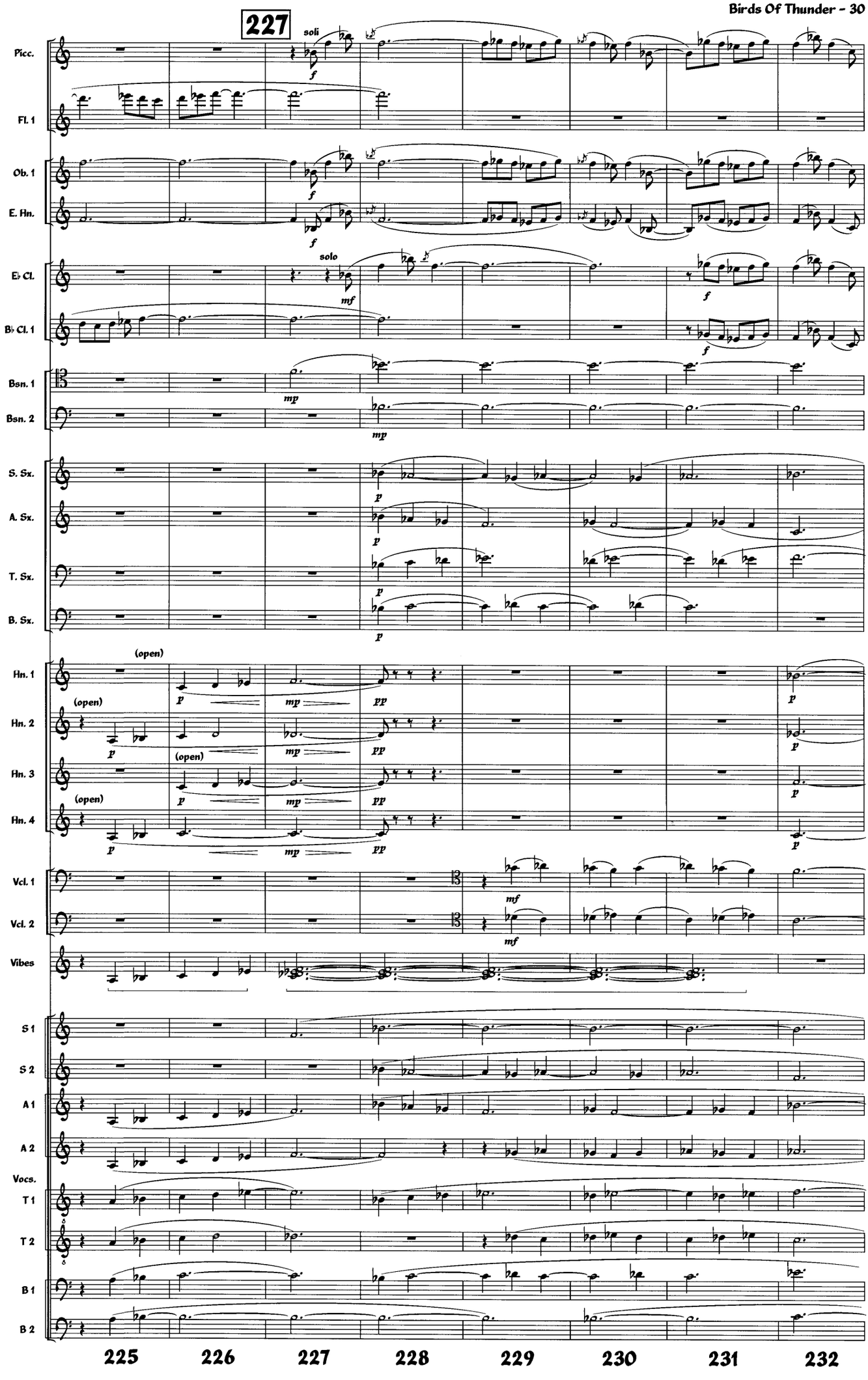

Picc.
Fl. 1-3
Ob. 1
E. Hn.
Cls.
B. Cl.
Ca. Cl.
Bsns.
SA
Saxes
TB
Eu. 2
(muted)
Tu. 1
(muted)
Cello 1,2
+Cb.
Drums
196
197
198
199
200

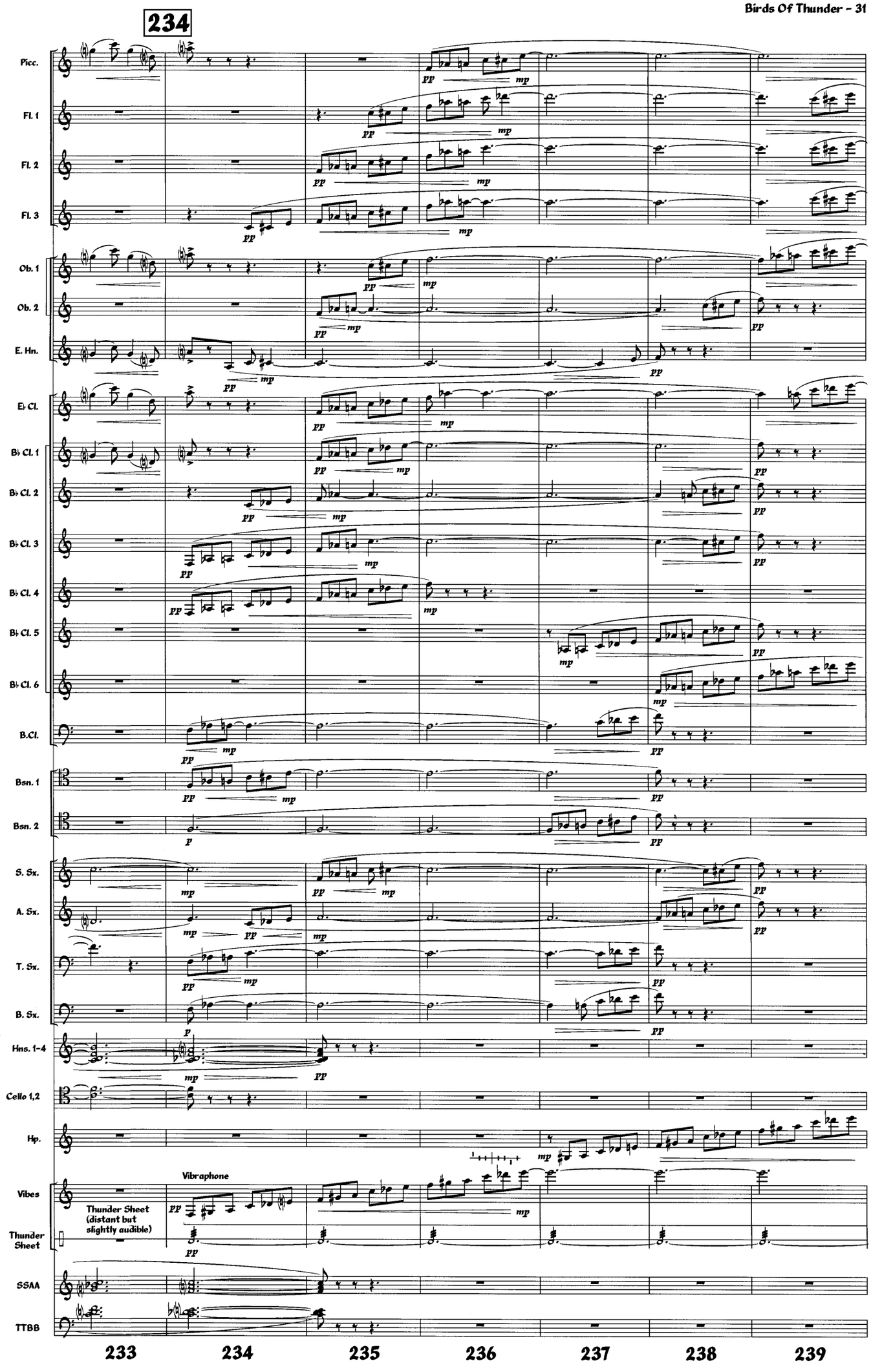

203 Piu Marcato
Picc.
Fl. 1-3
1,2
3.
Ob. 1
Ob. 2
f
E. Hn.
Cls.
B.Cl.
Ca. Cl.
ossia
Bsns.
SA
Saxes
TB
OPEN
a4
Hns. 1-4
(open)
Trp. 1 in D
f
2,5,6 (open)
(open)
Trps.
3,4 (mute)
(muted)
(Flugel)
Flugel
(1,3 open; 2,4 mute)
a4
Tbn. 1-4
OPEN
Tbn. 5
(open)
Eu. 1
(open)
Eu. 2
(muted)
Tu. 1
(muted)
ossia
Tu. 2
(open)
Cello 1,2
Str. Bs.
ossia
Hp.
hard mallets
mf
Timp.
Drums
ff
201
202
203
204
205

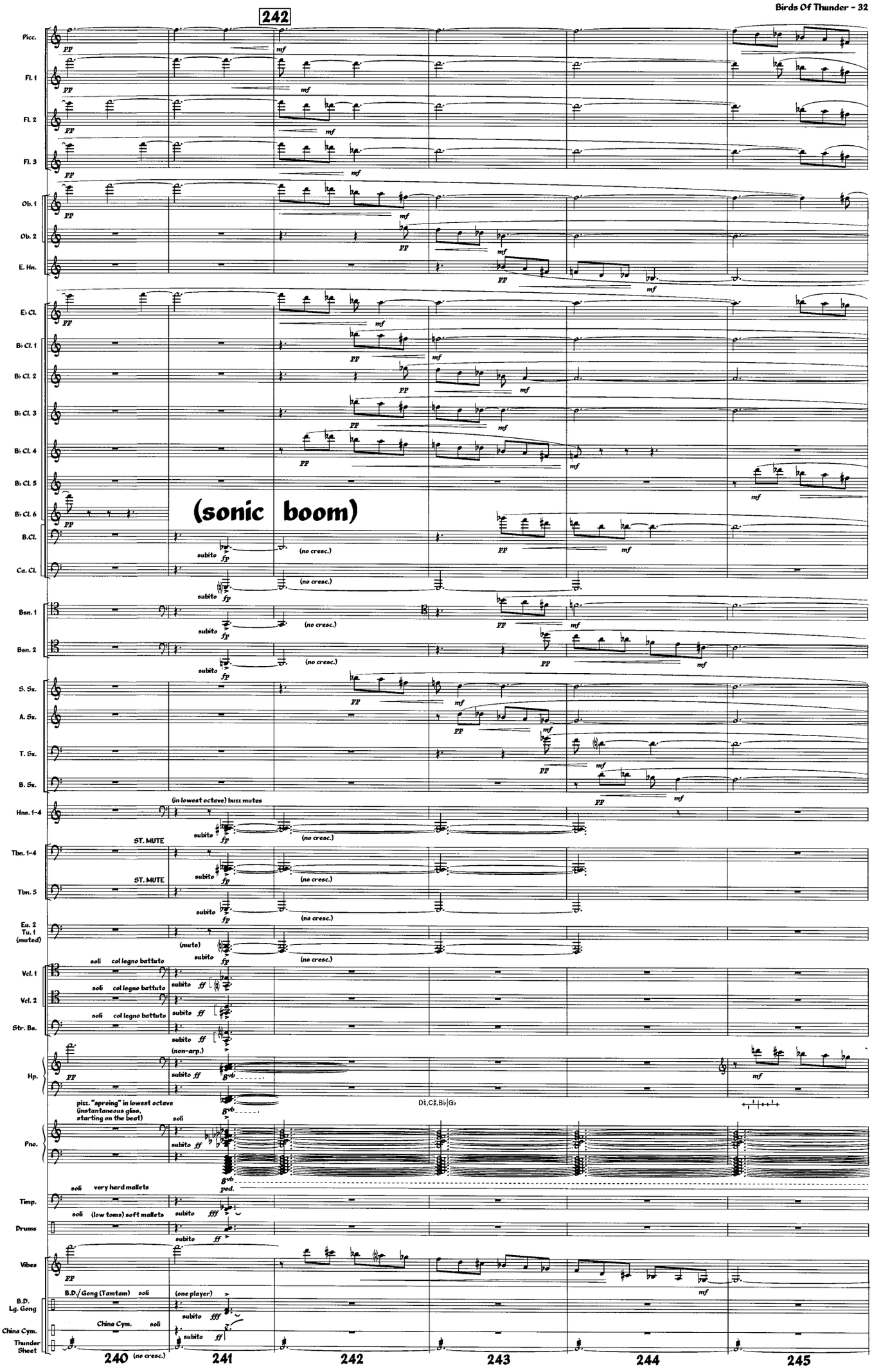

Picc.
Fl. 1-3
Eb Cl.
1
2
3
4
5
6
B. Cl.
Ca. Cl.
Bsns.
SA
Saxes
TB
a2
Hns. 1-4
1,3
2,4
Hp.
f
Gb, Ab
Snare Drum
S.D. open
mf
Ob. 1,2
E. Hn.
Trp. 1 in D
(open)
Trps.
(muted)
Flugel
(open)
Tbns.
(muted)
Tbn. 5
Eu. 1
(open)
Tu. 2
(open)
(mute)
Eu. 2
Tu. 1
(muted)
f
Cello 1,2
+Cb.
Pno.
f
ped.
half-down
Drums
S.D.
mf
206
207
208
209
210
211

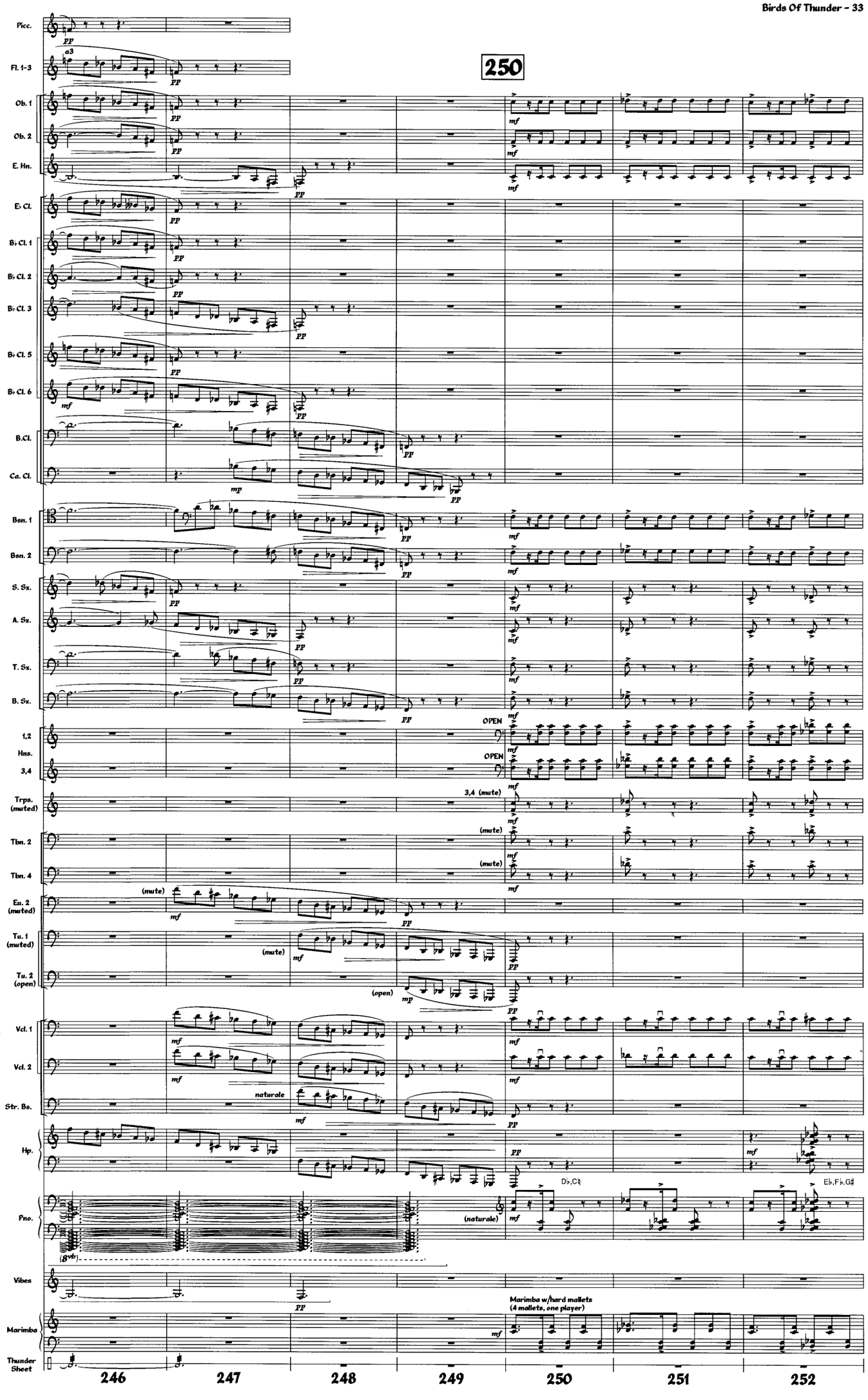

216
Picc.
Fl. 1-3
Eb Cl.
1
2
3
4
5
6
B.Cl.
Ca. Cl.
Bsns.
SA
Saxes
TB
Hns. 1-4
Hp.
pres de la table
Xylo.
Snare Drum
Ob. 1,2
E. Hn.
Trp. 1 in D
(open)
Trps.
(muted)
Flugel
(open)
Tbns.
(muted)
Tbn. 5
Eu. 1
(open)
Eu. 2
Tu. 1
(muted)
Tu. 2
(open)
Tu. 3
(open)
Cello 1,2
Str. Bs.
Pno.
ped.
half-down
Timp.
Drums
212
213
214
215
216

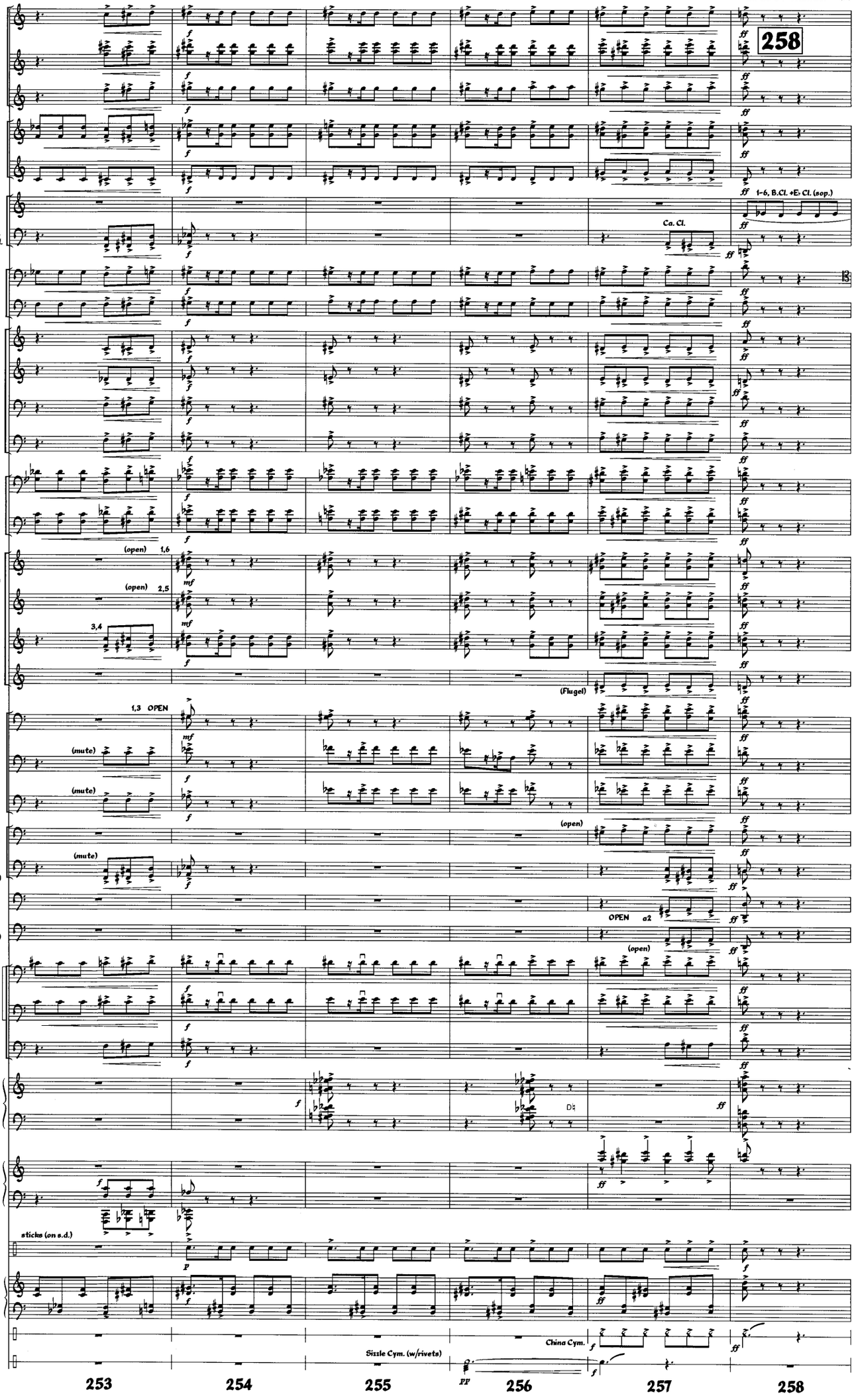

Fl. 1-3
Ob. 1,2
E. Hn.
E♭ Cl.
B♭ Cl. 1
B♭ Cl. 2
B♭ Cl. 3
B♭ Cl. 4
B♭ Cl. 5
B♭ Cl. 6
B.Cl.
Ca. Cl.
Bsn. 1
Bsn. 2
SA
Saxes
TB
Hns. 1-4
Vibes
Vibraphone
S 1
S 2
A 1
A 2
Vocs.
T 1
T 2
B 1
B 2
1. soli
soli
1solo
solo
pp
mf
mp
p
oo
217
218
219
220
221
222
223
224


227
Picc.
Fl. 1
Ob. 1
E. Hn.
E♭ Cl.
B♭ Cl. 1
Bsn. 1
Bsn. 2
S. Sx.
A. Sx.
T. Sx.
B. Sx.
Hn. 1
Hn. 2
Hn. 3
Hn. 4
Vcl. 1
Vcl. 2
Vibes
S 1
S 2
A 1
A 2
Vocs.
T 1
T 2
B 1
B 2
soli
solo
(open)
225
226
227
228
229
230
231
232

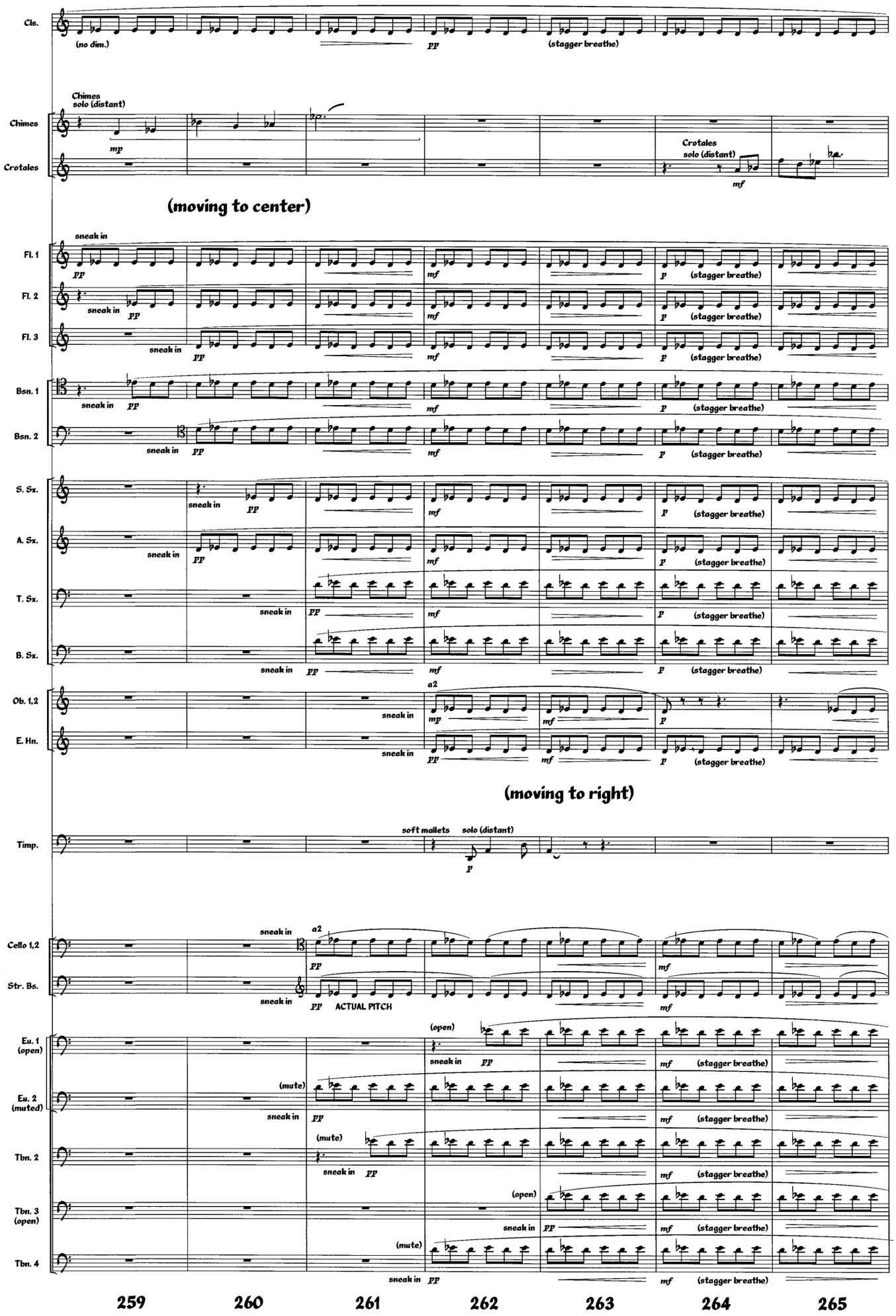

234
Picc.
Fl. 1
Fl. 2
Fl. 3
Ob. 1
Ob. 2
E. Hn.
E♭ Cl.
B♭ Cl. 1
B♭ Cl. 2
B♭ Cl. 3
B♭ Cl. 4
B♭ Cl. 5
B♭ Cl. 6
B.Cl.
Bsn. 1
Bsn. 2
S. Sx.
A. Sx.
T. Sx.
B. Sx.
Hns. 1-4
Cello 1,2
Hp.
Vibes
Vibraphone
Thunder Sheet
Thunder Sheet (distant but slightly audible)
SSAA
TTBB
233
234
235
236
237
238
239

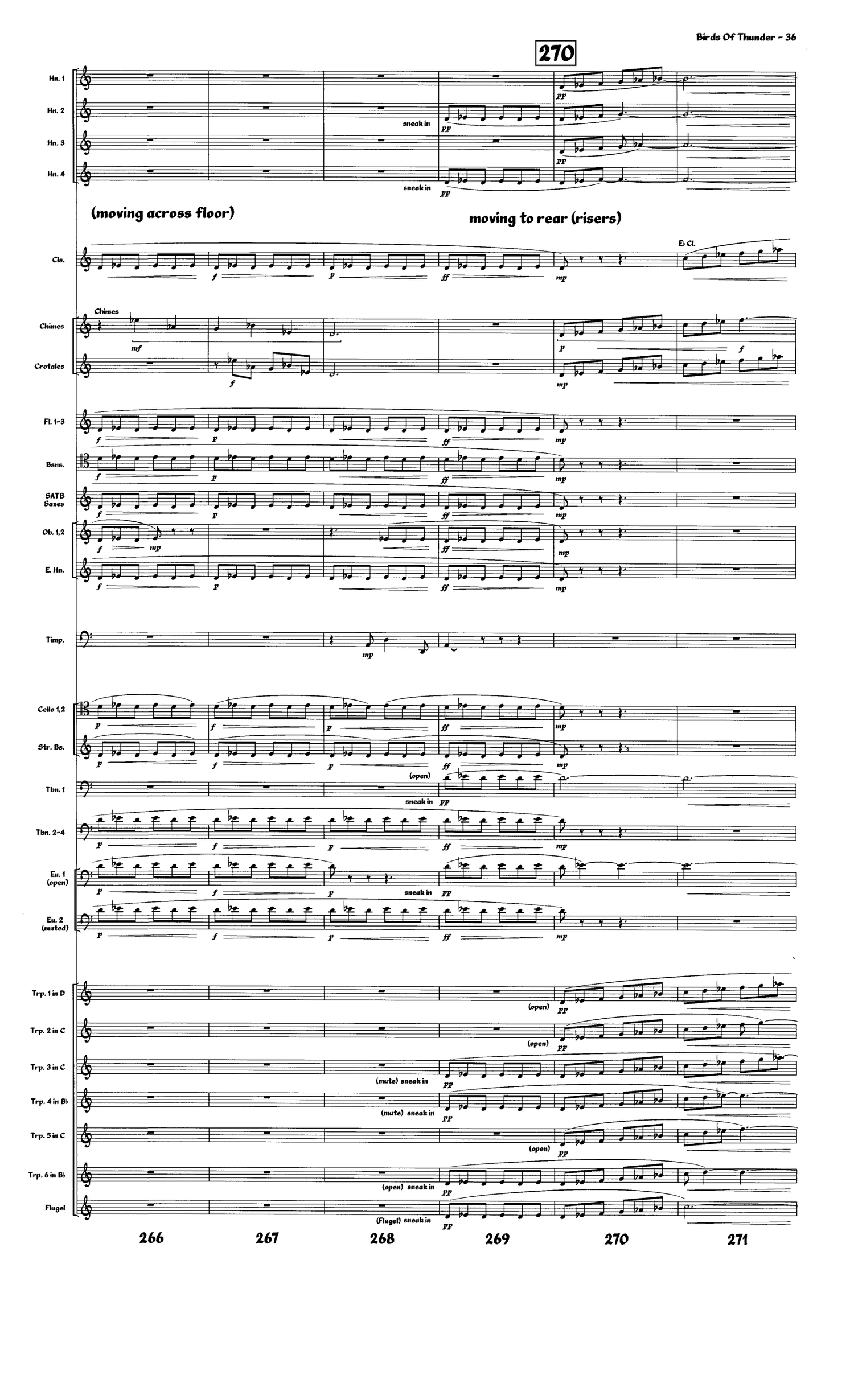

242
Picc.
Fl. 1
Fl. 2
Fl. 3
Ob. 1
Ob. 2
E. Hn.
E♭ Cl.
B♭ Cl. 1
B♭ Cl. 2
B♭ Cl. 3
B♭ Cl. 4
B♭ Cl. 5
B♭ Cl. 6
B.Cl.
Ca. Cl.
Bsn. 1
Bsn. 2
S. Sx.
A. Sx.
T. Sx.
B. Sx.
Hns. 1-4
Tbn. 1-4
Tbn. 5
Eu. 2
Tu. 1
(muted)
Vcl. 1
Vcl. 2
Str. Bs.
Hp.
Pno.
Timp.
Drums
Vibes
B.D.
Lg. Gong
China Cym.
Thunder Sheet
(sonic boom)
(in lowest octave) buzz mutes
ST. MUTE
ST. MUTE
(mute)
soli col legno battuto
soli col legno battuto
soli col legno battuto
(non-arp.)
pizz. "sproing" in lowest octave (instantaneous glissando starting on the beat)
soli
very hard mallets
soli (low toms) soft mallets
B.D./Gong (Tamtam) soli
(one player)
China Cym. soli
(no cresc.)
D♮,C♯,B♭,G♭
240
241
242
243
244
245

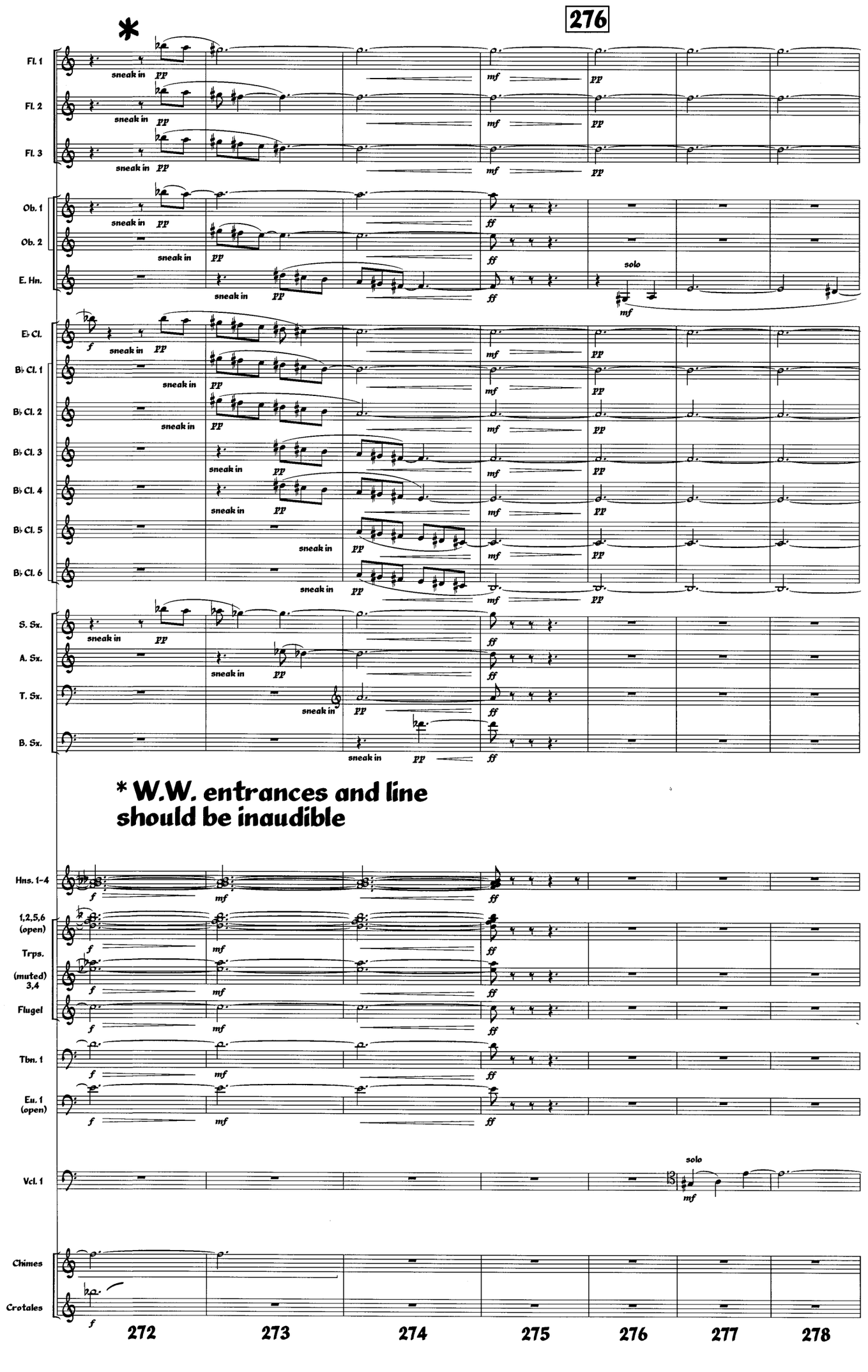

250
Picc.
Fl. 1-3
Ob. 1
Ob. 2
E. Hn.
E♭ Cl.
B♭ Cl. 1
B♭ Cl. 2
B♭ Cl. 3
B♭ Cl. 5
B♭ Cl. 6
B.Cl.
Ca. Cl.
Bsn. 1
Bsn. 2
S. Sx.
A. Sx.
T. Sx.
B. Sx.
1,2
Hns.
3,4
Trps. (muted)
Tbn. 2
Tbn. 4
Eu. 2 (muted)
Tu. 1 (muted)
Tu. 2 (open)
Vcl. 1
Vcl. 2
Str. Bs.
Hp.
Pno.
Vibes
Marimba
Thunder Sheet
OPEN
3,4 (mute)
(mute)
(open)
naturale
(naturale)
D♭,C♮
E♭,F♭,G♯
Marimba w/hard mallets
(4 mallets, one player)
246
247
248
249
250
251
252

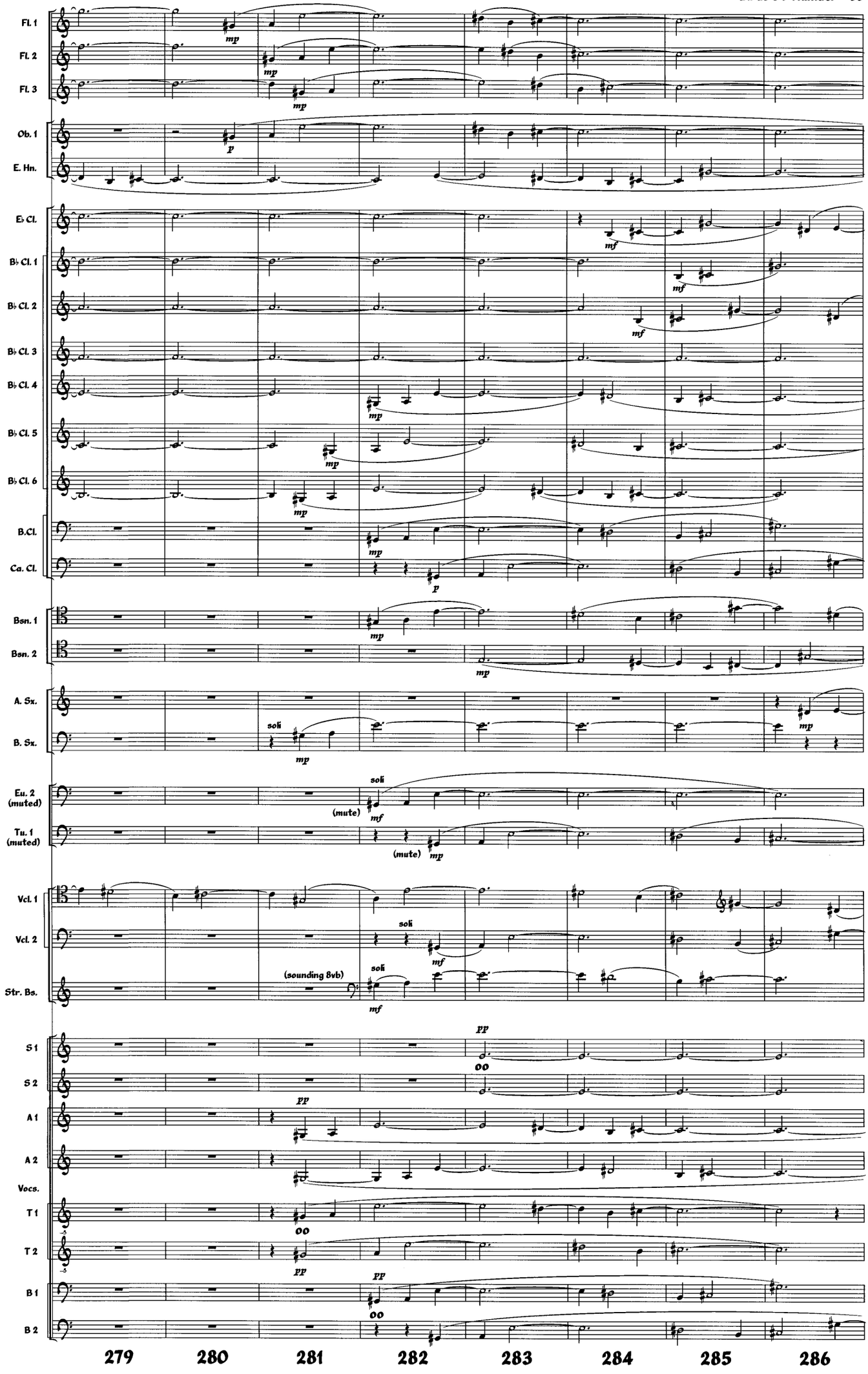

Picc.
Fl. 1,3
Fl. 2
Ob. 1,2
E. Hn.
Cls.
B. Cl.
Ca. Cl.
Bsn. 1
Bsn. 2
S. Sx.
A. Sx.
T. Sx.
B. Sx.
1,2
Hns.
3,4
(open)
1,6
(open)
2,5
Trps.
3,4
(muted)
Flugel
1,3 OPEN
Tbns. (open)
(mute)
Tbn. 2
(mute)
Tbn. 4
Eu. 1 (open)
(mute)
Eu. 2 Tu. 1 (muted)
Tbn. 5 Tu. 2
Tu. 3 (open)
Vcl. 1
Vcl. 2
Str. Bs.
Hp.
Pno.
sticks (on s.d.)
Drums
Marimba
China Cym.
Sz. Cym.
258
1-6, B.Cl. +E♭ Cl. (sop.)
Ca. Cl.
(Flugel)
(open)
OPEN a2
(open)
Sizzle Cym. (w/rivets)
China Cym.
253
254
255
256
257
258

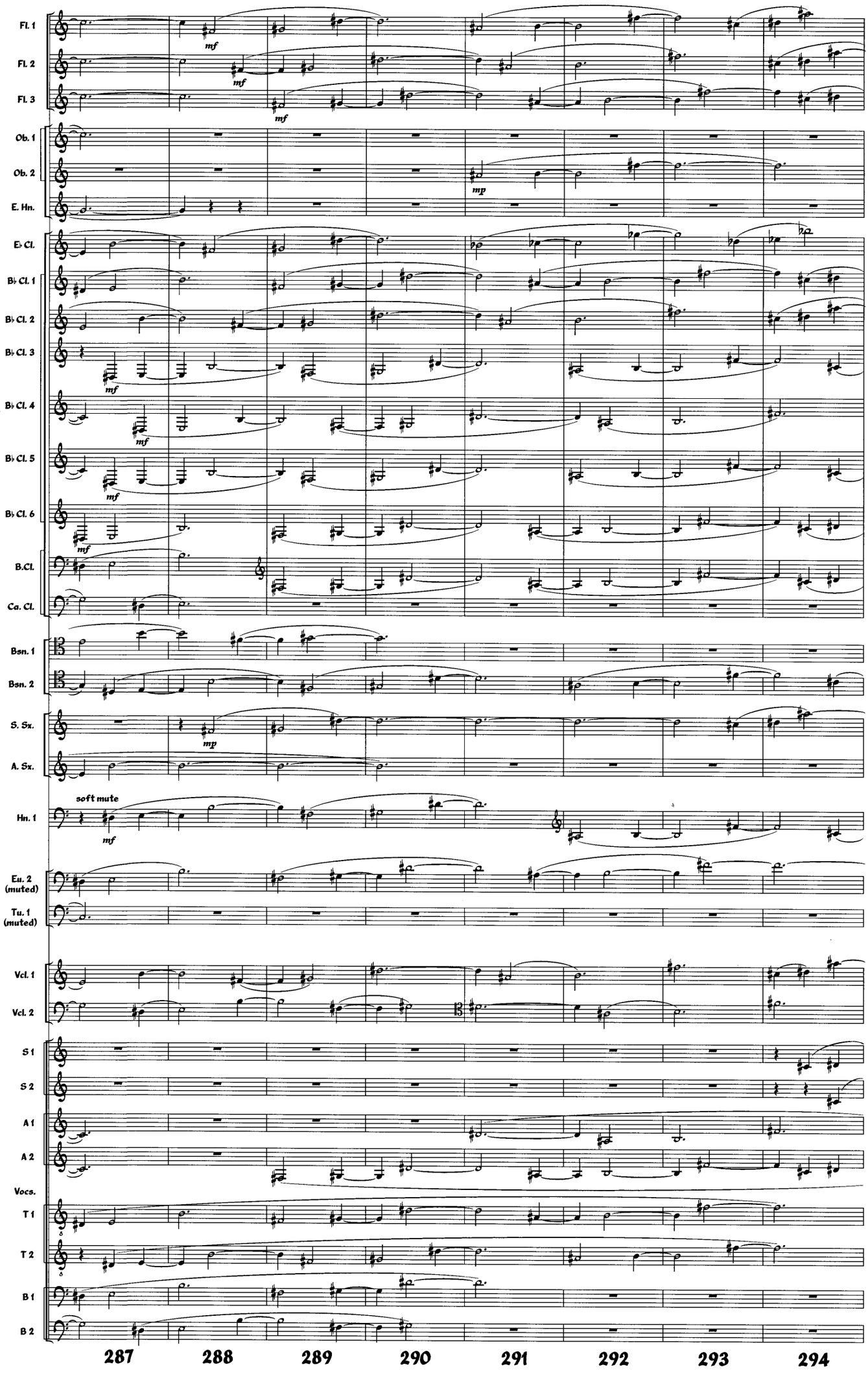
(scoring by location)



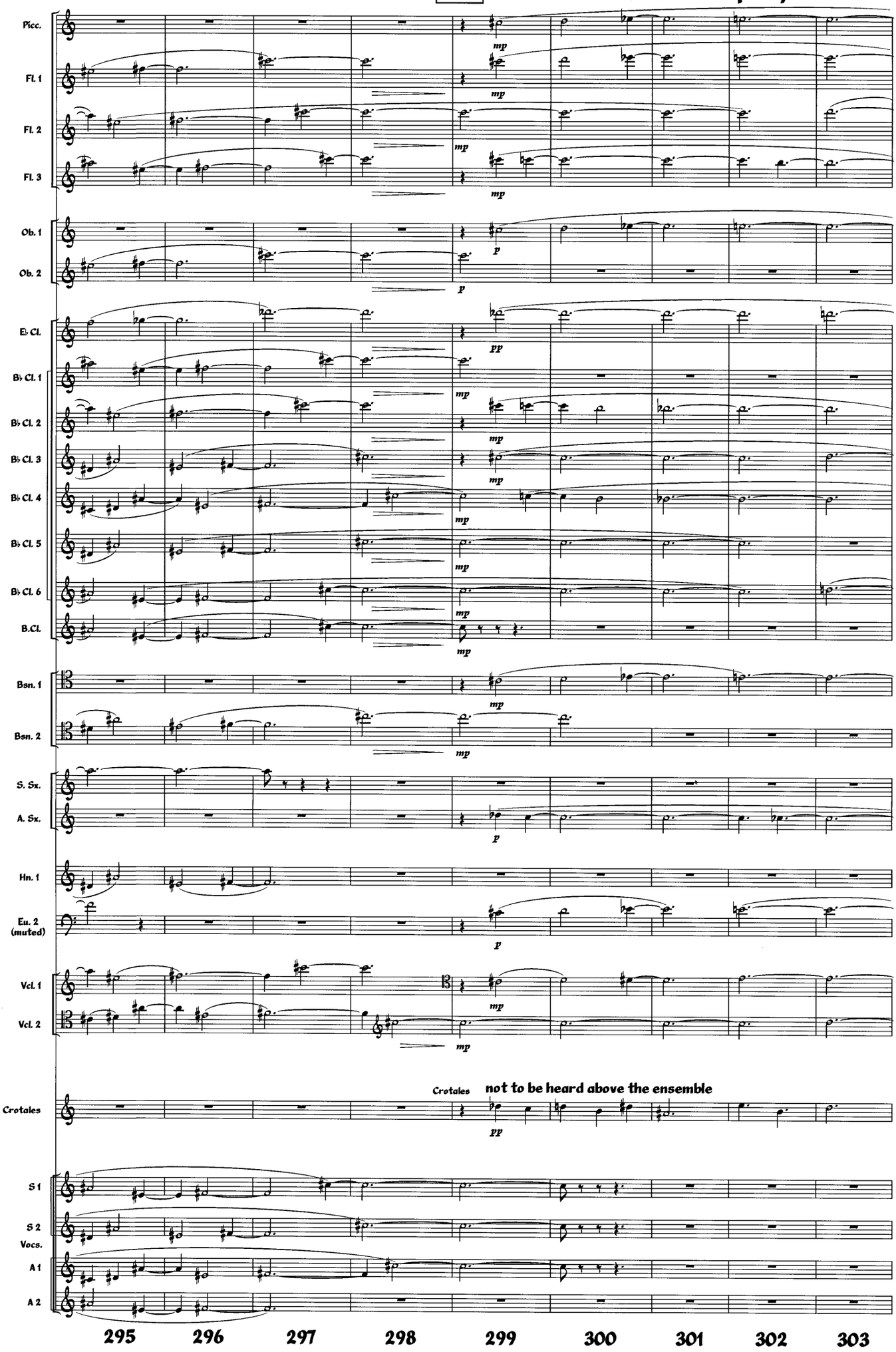

270
Hn. 1
Hn. 2
Hn. 3
Hn. 4
sneak in
(moving across floor)
moving to rear (risers)
Cls.
E♭ Cl.
Chimes
Crotales
Fl. 1-3
Bsns.
SATB Saxes
Ob. 1,2
E. Hn.
Timp.
Cello 1,2
Str. Bs.
Tbn. 1
(open)
Tbn. 2-4
Eu. 1 (open)
Eu. 2 (muted)
Trp. 1 in D
Trp. 2 in C
Trp. 3 in C
(mute) sneak in
Trp. 4 in B♭
Trp. 5 in C
Trp. 6 in B♭
Flugel
(Flugel) sneak in
266
267
268
269
270
271

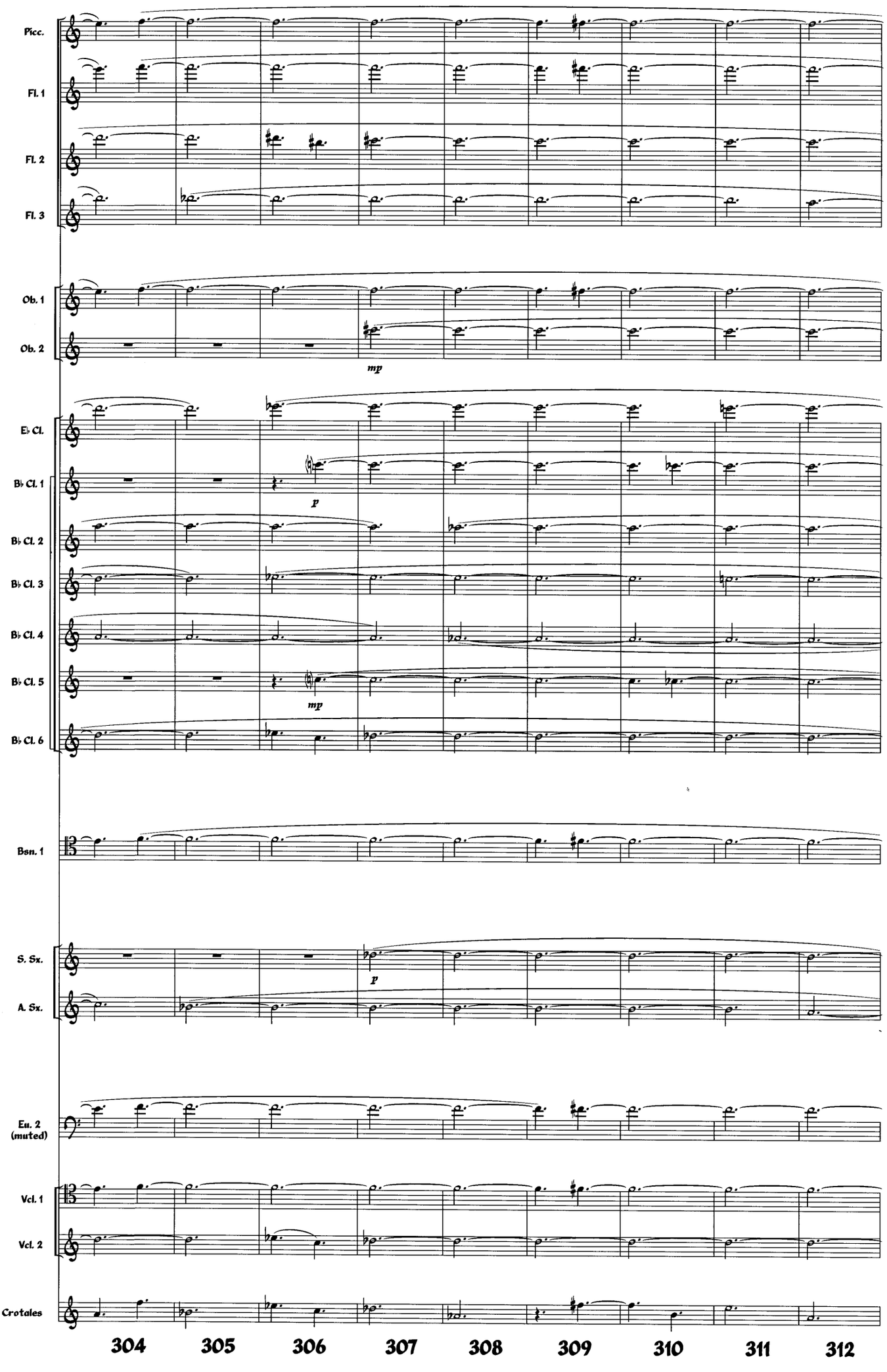

276
Fl. 1
Fl. 2
Fl. 3
Ob. 1
Ob. 2
E. Hn.
E♭ Cl.
B♭ Cl. 1
B♭ Cl. 2
B♭ Cl. 3
B♭ Cl. 4
B♭ Cl. 5
B♭ Cl. 6
S. Sx.
A. Sx.
T. Sx.
B. Sx.
sneak in
pp
mf
ff
solo
* W.W. entrances and line should be inaudible
Hns. 1-4
1,2,5,6 (open)
Trps.
(muted) 3,4
Flugel
Tbn. 1
Eu. 1 (open)
Vcl. 1
Chimes
Crotales
272
273
274
275
276
277
278

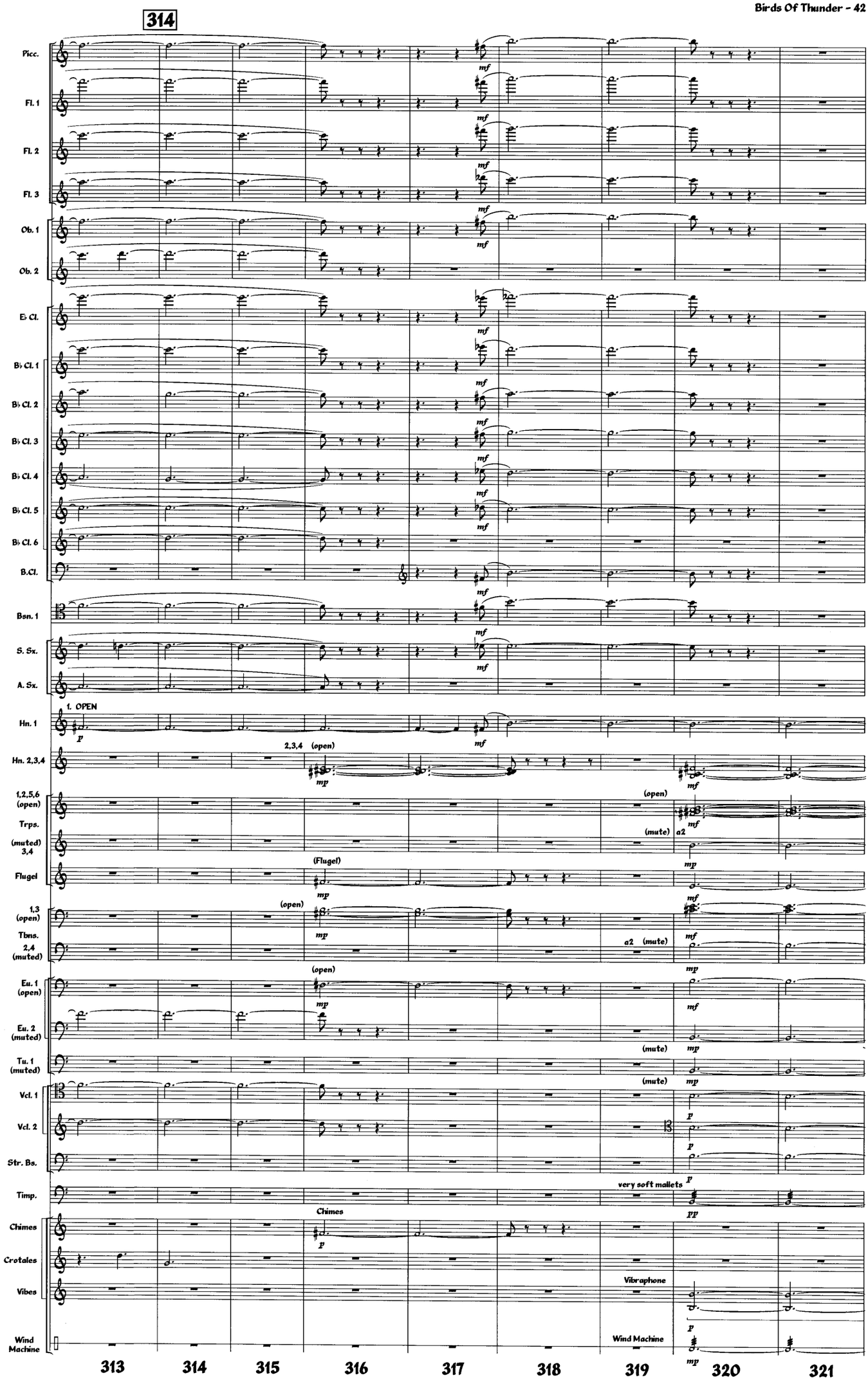

Fl. 1
Fl. 2
Fl. 3
Ob. 1
E. Hn.
E♭ Cl.
B♭ Cl. 1
B♭ Cl. 2
B♭ Cl. 3
B♭ Cl. 4
B♭ Cl. 5
B♭ Cl. 6
B.Cl.
Ca. Cl.
Bsn. 1
Bsn. 2
A. Sx.
B. Sx.
Eu. 2 (muted)
Tu. 1 (muted)
Vcl. 1
Vcl. 2
Str. Bs.
S 1
S 2
A 1
A 2
Vocs.
T 1
T 2
B 1
B 2
(mute)
(sounding 8vb)
soli
mp
mf
p
pp
oo
279
280
281
282
283
284
285
286

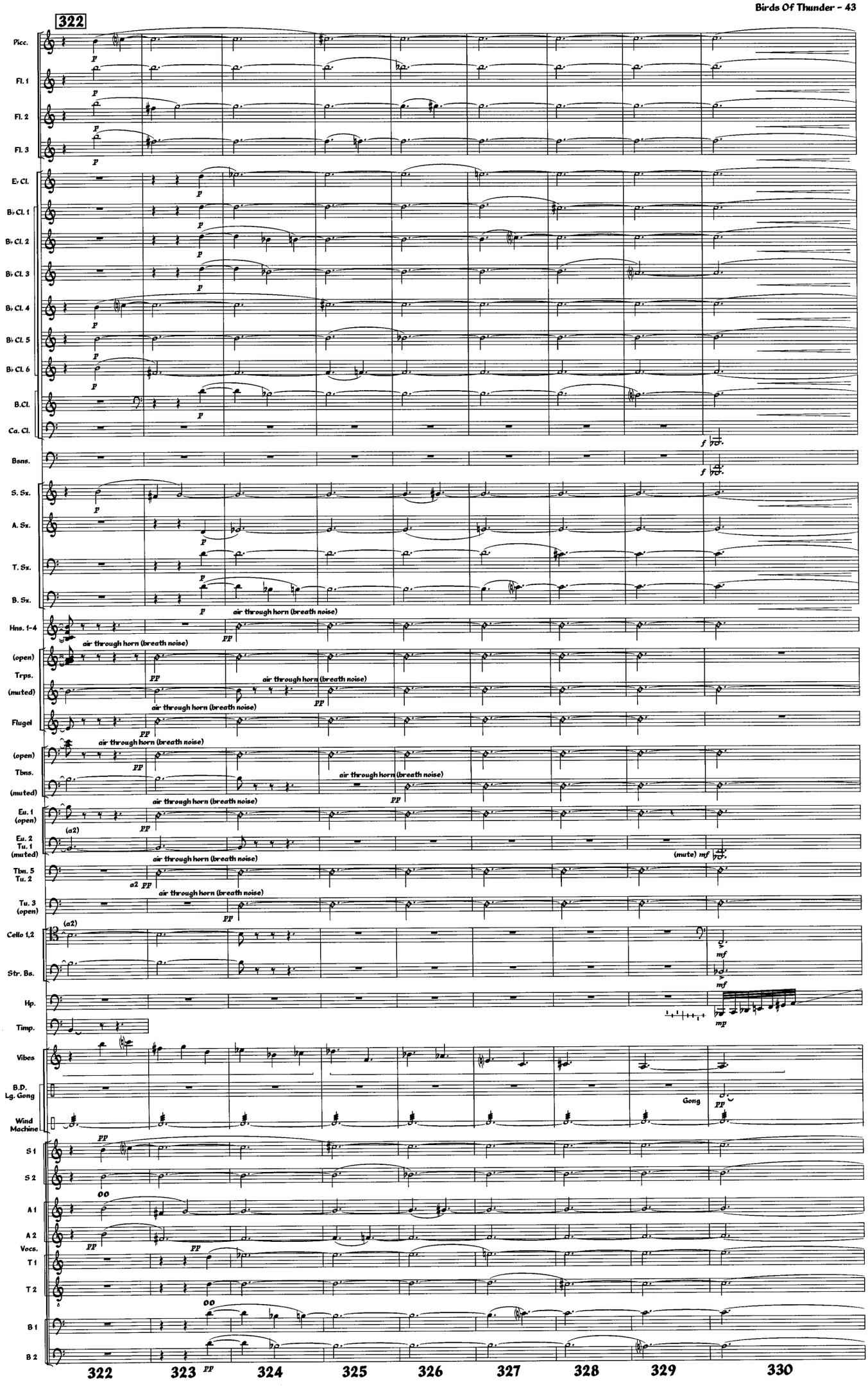

Fl. 1
Fl. 2
Fl. 3
Ob. 1
Ob. 2
E. Hn.
E♭ Cl.
B♭ Cl. 1
B♭ Cl. 2
B♭ Cl. 3
B♭ Cl. 4
B♭ Cl. 5
B♭ Cl. 6
B.Cl.
Ca. Cl.
Bsn. 1
Bsn. 2
S. Sx.
A. Sx.
Hn. 1
soft mute
Eu. 2 (muted)
Tu. 1 (muted)
Vcl. 1
Vcl. 2
S 1
S 2
A 1
A 2
Vocs.
T 1
T 2
B 1
B 2
mf
mp
287
288
289
290
291
292
293
294

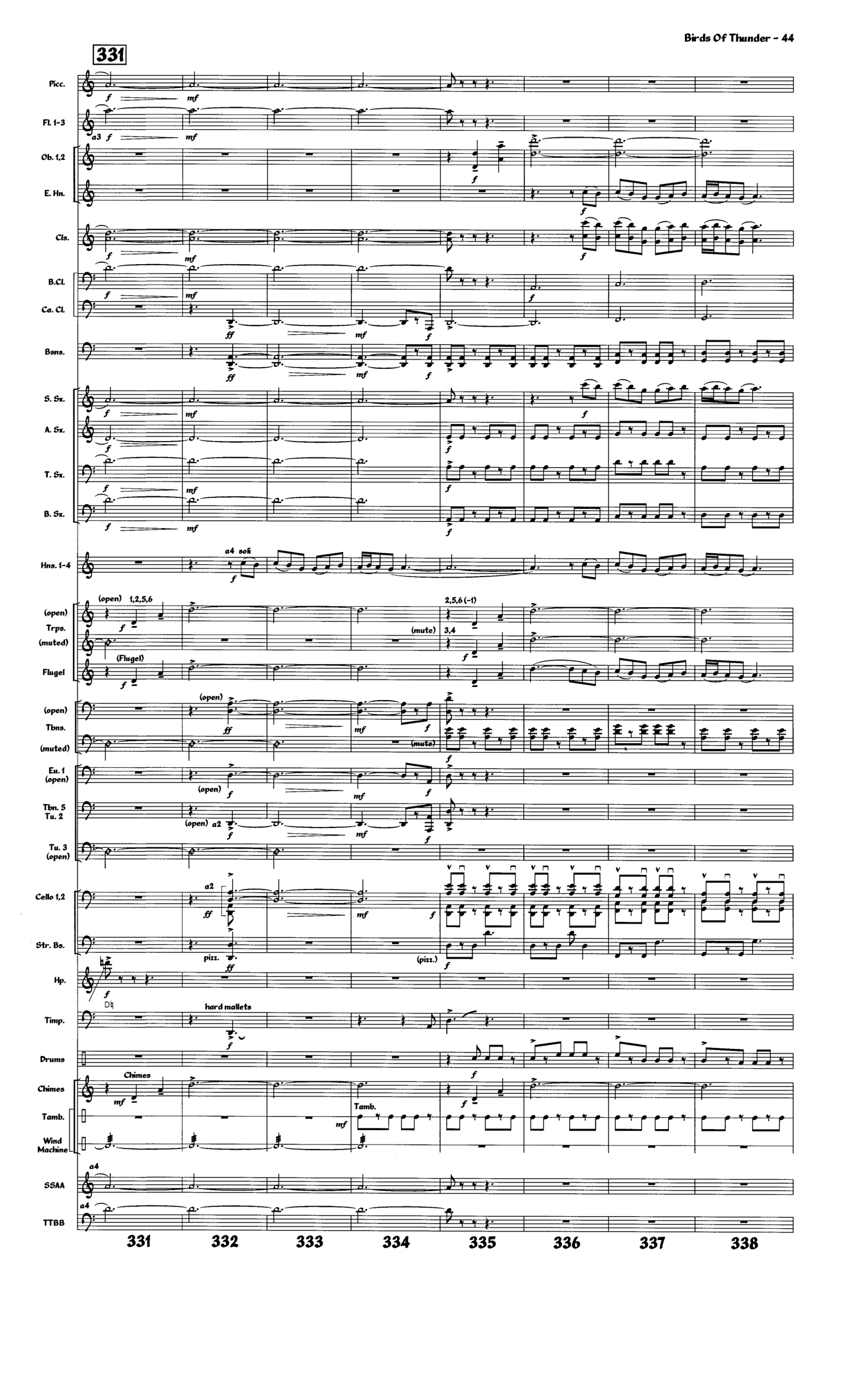
299 **Senza vibrato; all lines equally balanced**

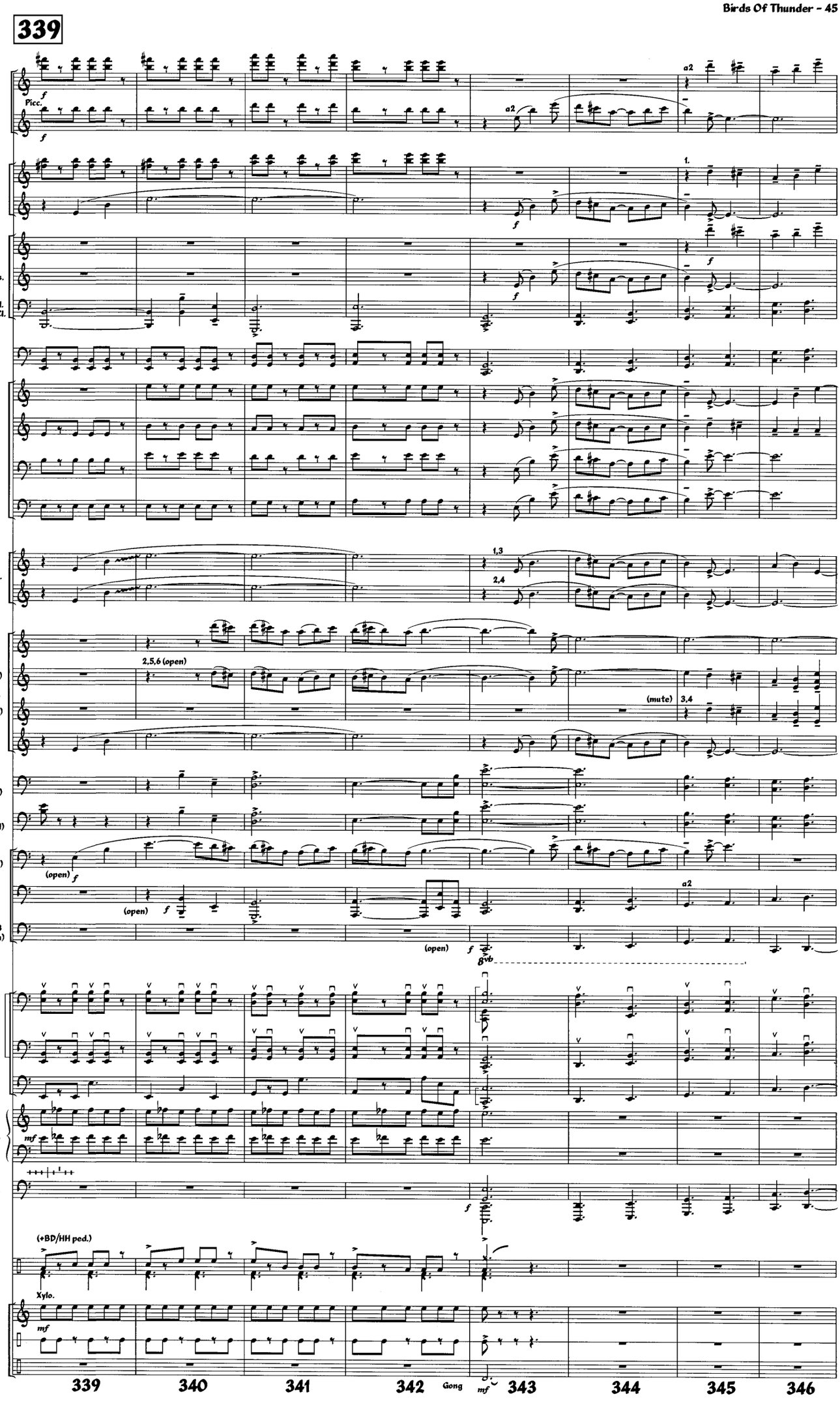


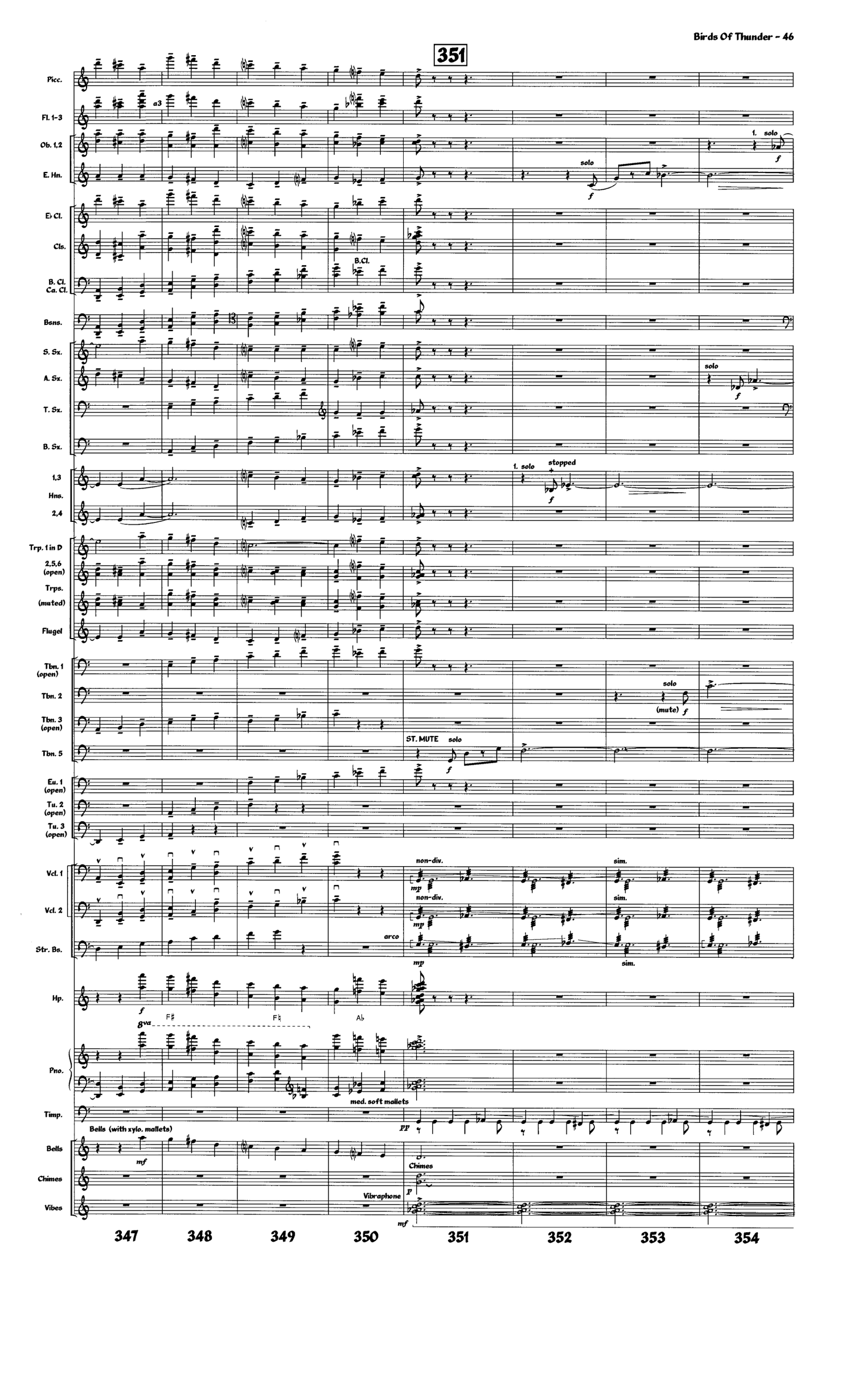

Picc.
Fl. 1
Fl. 2
Fl. 3
Ob. 1
Ob. 2
mp
E♭ Cl.
B♭ Cl. 1
p
B♭ Cl. 2
B♭ Cl. 3
B♭ Cl. 4
B♭ Cl. 5
mp
B♭ Cl. 6
Bsn. 1
S. Sx.
p
A. Sx.
Eu. 2 (muted)
Vcl. 1
Vcl. 2
Crotales
304
305
306
307
308
309
310
311
312

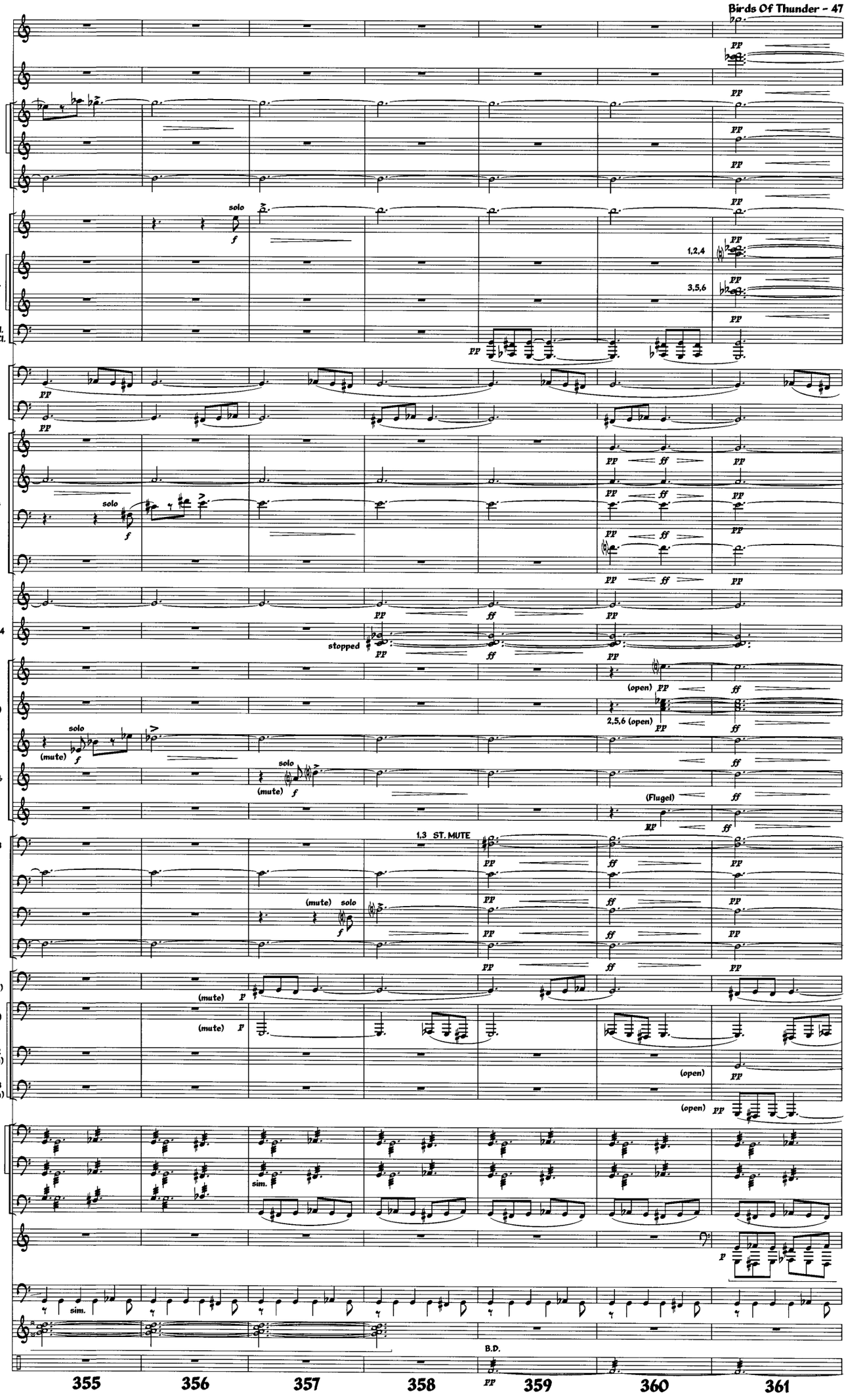

314
Picc.
Fl. 1
Fl. 2
Fl. 3
Ob. 1
Ob. 2
E♭ Cl.
B♭ Cl. 1
B♭ Cl. 2
B♭ Cl. 3
B♭ Cl. 4
B♭ Cl. 5
B♭ Cl. 6
B.Cl.
Bsn. 1
S. Sx.
A. Sx.
Hn. 1
1. OPEN
Hn. 2,3,4
2,3,4 (open)
1,2,5,6 (open) Trps.
(muted) 3,4
Flugel
(Flugel)
1,3 (open) Tbns.
2,4 (muted)
(open)
Eu. 1 (open)
Eu. 2 (muted)
Tu. 1 (muted)
(mute)
a2
Vcl. 1
Vcl. 2
Str. Bs.
Timp.
very soft mallets
Chimes
Crotales
Vibes
Vibraphone
Wind Machine
313
314
315
316
317
318
319
320
321

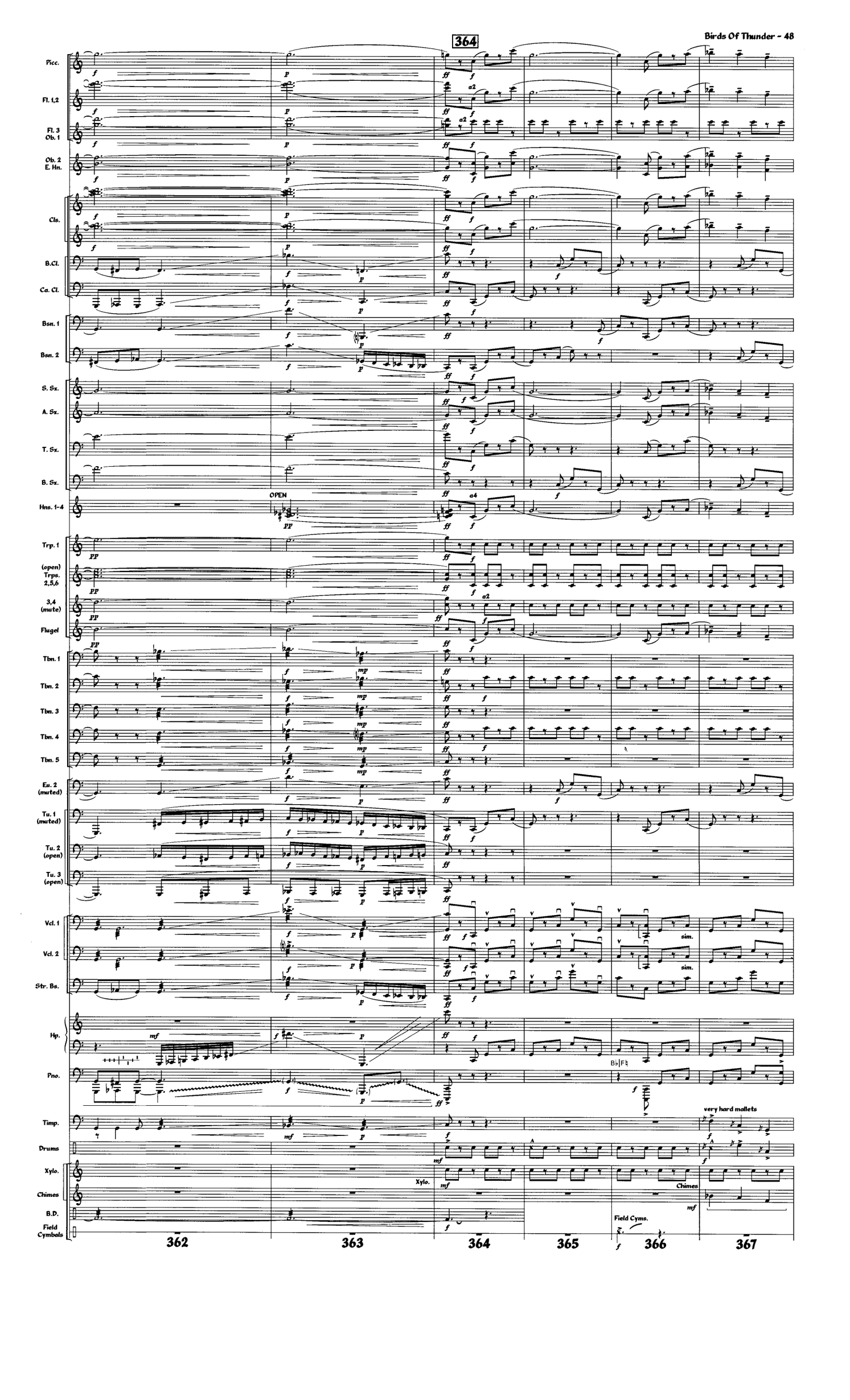

322
Picc.
Fl. 1
Fl. 2
Fl. 3
E♭ Cl.
B♭ Cl. 1
B♭ Cl. 2
B♭ Cl. 3
B♭ Cl. 4
B♭ Cl. 5
B♭ Cl. 6
B.Cl.
Ca. Cl.
Bsns.
S. Sx.
A. Sx.
T. Sx.
B. Sx.
Hns. 1-4
(open)
Trps.
(muted)
Flugel
(open)
Tbns.
(muted)
Eu. 1 (open)
Eu. 2 Tu. 1 (muted)
Tbn. 5 Tu. 2
Tu. 3 (open)
Cello 1,2
Str. Bs.
Hp.
Timp.
Vibes
B.D. Lg. Gong
Wind Machine
S 1
S 2
A 1
A 2
Vocs.
T 1
T 2
B 1
B 2
air through horn (breath noise)
(a2)
(mute)
Gong
322
323
324
325
326
327
328
329
330

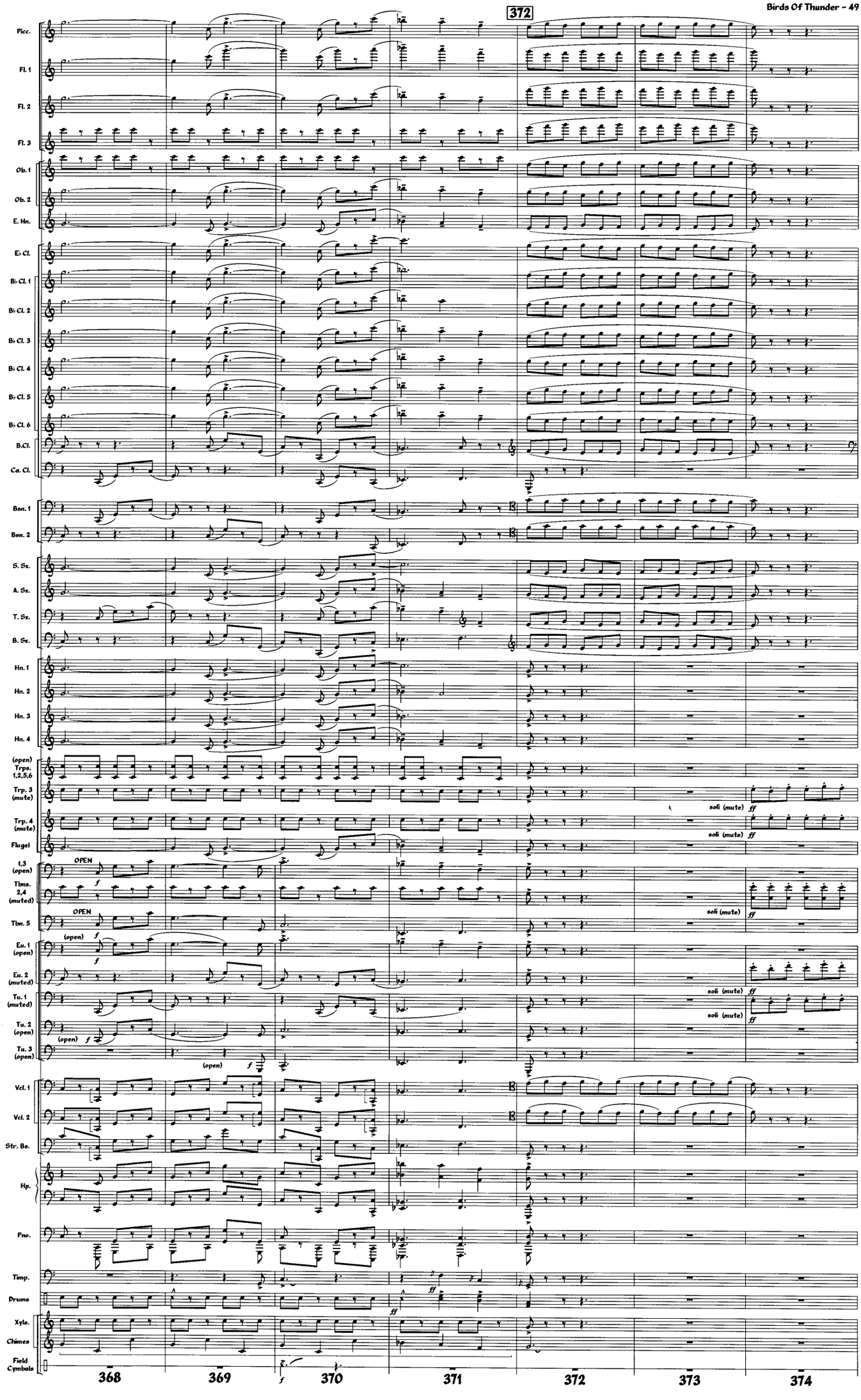

331
Picc.
Fl. 1-3
Ob. 1,2
E. Hn.
Cls.
B.Cl.
Ca. Cl.
Bsns.
S. Sx.
A. Sx.
T. Sx.
B. Sx.
Hns. 1-4
a4 soli
(open) Trps.
(muted)
Flugel
(Flugel)
1,2,5,6
2,5,6 (-1)
(mute)
3,4
(open) Tbns.
(muted)
(mute)
Eu. 1 (open)
Tbn. 5 Tu. 2
Tu. 3 (open)
(open)
(open) a2
Cello 1,2
Str. Bs.
a2
pizz.
(pizz.)
Hp.
Db
Timp.
hard mallets
Drums
Chimes
Tamb.
Wind Machine
Tamb.
SSAA
TTBB
a4
331
332
333
334
335
336
337
338

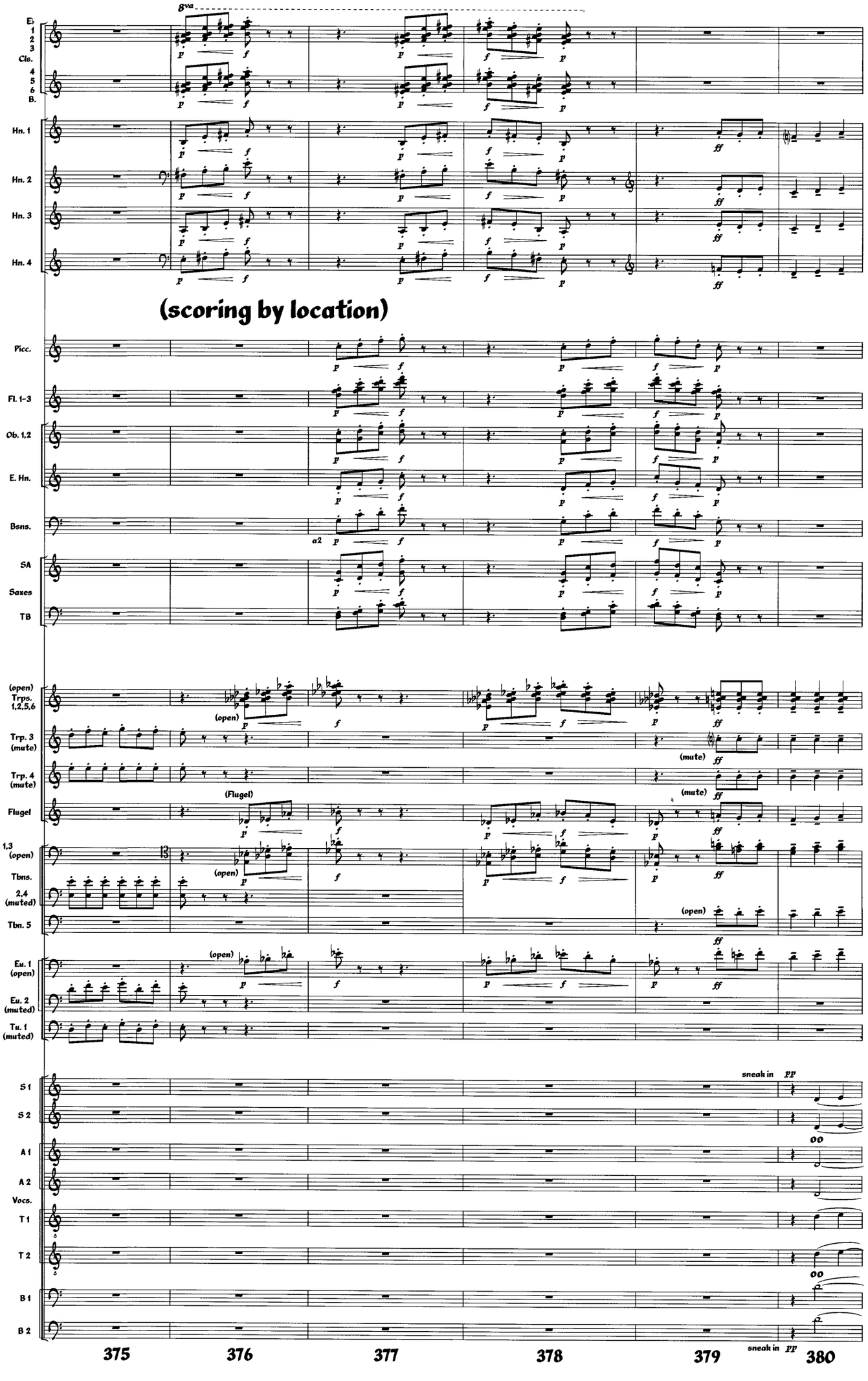

339
Fl. 1,2
Fl. 3 Picc.
Ob. 1,2
E. Hn.
E♭ Cl.
Cls.
B. Cl. Ca. Cl.
Bsns.
S. Sx.
A. Sx.
T. Sx.
B. Sx.
1,3 Hns.
2,4
Trp. 1 in D
(open) Trps.
(muted) Flugel
1,3 (open) Tbns.
2,4 (muted)
Eu. 1 (open)
Tbn. 5 Tu. 2
Tu. 3 (open)
Vcl. 1
Vcl. 2
Str. Bs.
Hp.
Pno.
Drums
Xylo.
Tamb.
B.D. Lg. Gong
Picc.
a2
1.
f
2,5,6 (open)
(mute)
3,4
(open)
8va
(+BD/HH ped.)
mf
Gong
339
340
341
342
343
344
345
346

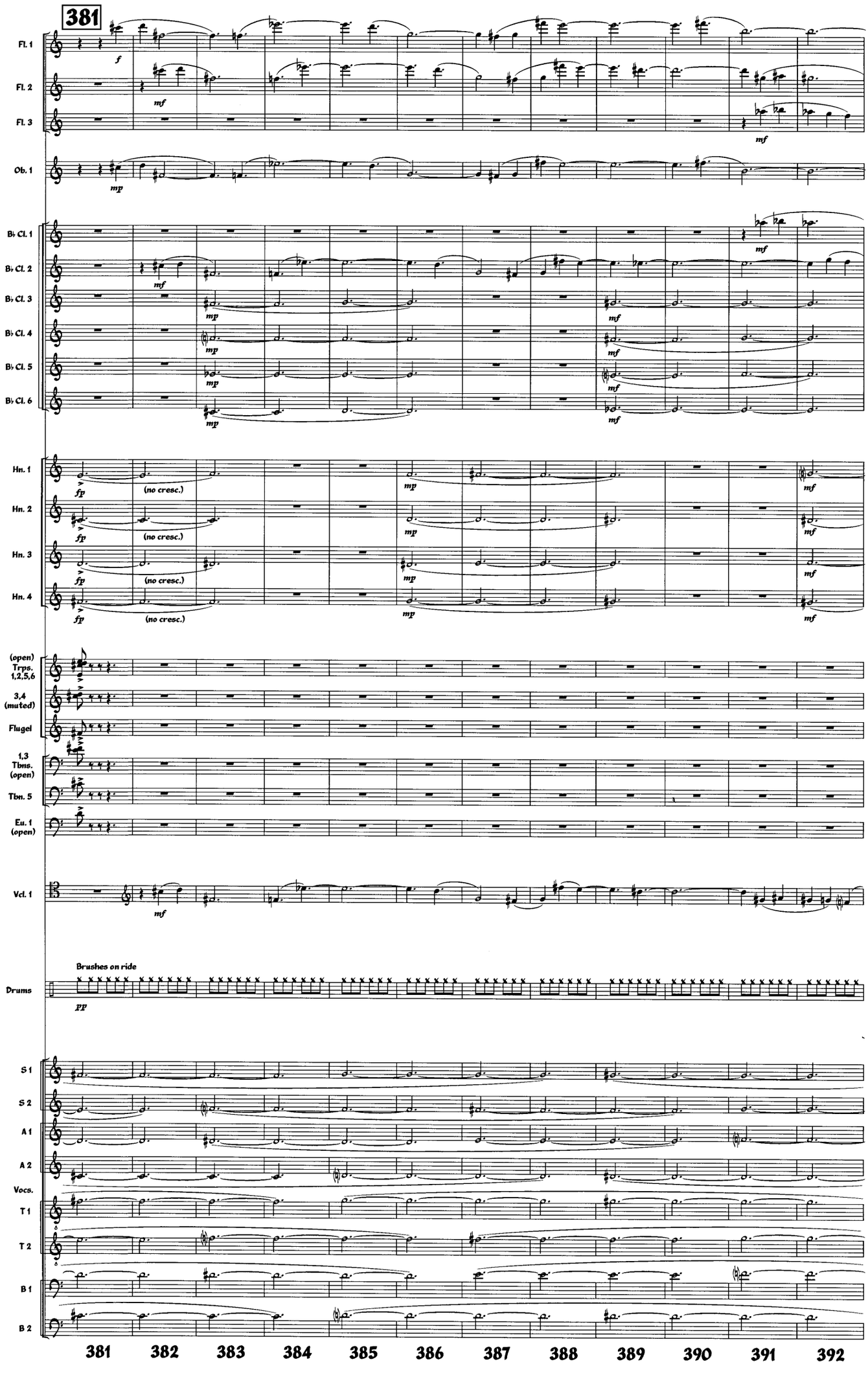

351
Picc.
Fl. 1-3
a3
Ob. 1,2
E. Hn.
1. solo
f
solo
f
Eb Cl.
Cls.
B. Cl.
Ca. Cl.
B.Cl.
Bsns.
S. Sx.
A. Sx.
T. Sx.
B. Sx.
solo
f
1,3
Hns.
2,4
1. solo
stopped
f
Trp. 1 in D
2,5,6 (open)
Trps. (muted)
Flugel
Tbn. 1 (open)
Tbn. 2
Tbn. 3 (open)
Tbn. 5
solo
(mute)
f
ST. MUTE
solo
f
Eu. 1 (open)
Tu. 2 (open)
Tu. 3 (open)
Vcl. 1
Vcl. 2
Str. Bs.
non-div.
mp
sim.
arco
Hp.
f
8va
Pno.
med. soft mallets
Timp.
pp
Bells (with xylo. mallets)
mf
Bells
Chimes
Vibraphone
p
mf
347
348
349
350
351
352
353
354

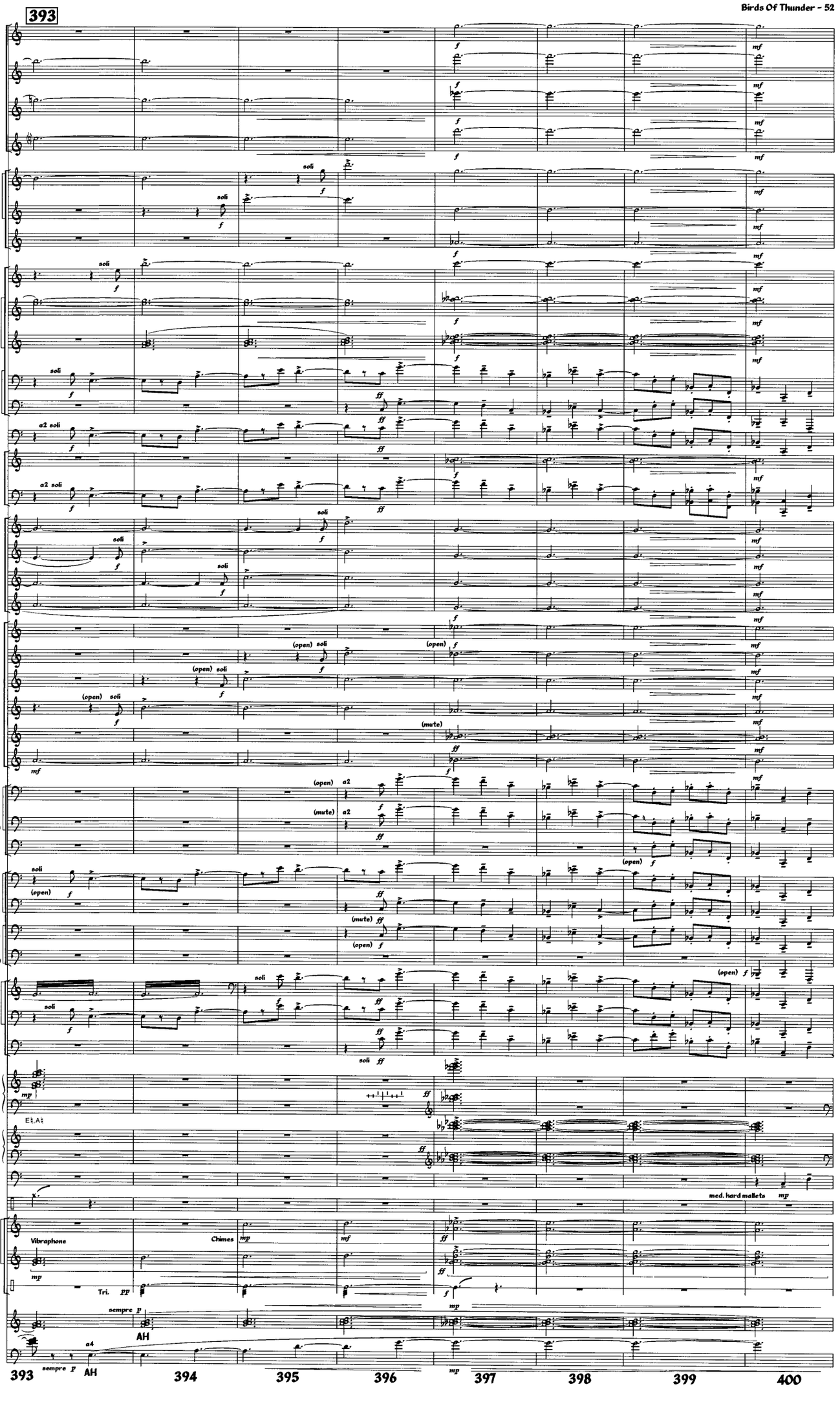

Picc.
Fl. 1-3
Ob. 1
Ob. 2
E. Hn.
E♭ Cl.
Cls.
B. Cl.
Ca. Cl.
Bsn. 1
Bsn. 2
S. Sx.
A. Sx.
Saxes
T. Sx.
B. Sx.
Hn. 1
Hn. 2,3,4
Trp. 1 in D
Trps. (open)
Trp. 3 in C
Trp. 4 in B♭
Flugel
Tbn. 1,3
Tbn. 2
Tbn. 4
Tbn. 5
Eu. 2 (muted)
Tu. 1 (muted)
Tu. 2 (open)
Tu. 3 (open)
Vcl. 1
Vcl. 2
Str. Bs.
Pno.
Timp.
Vibes
B.D.
Lg. Gong
solo
1,2,4
3,5,6
stopped
(open)
2,5,6 (open)
(mute)
(Flugel)
1,3 ST. MUTE
sim.
B.D.
355
356
357
358
359
360
361

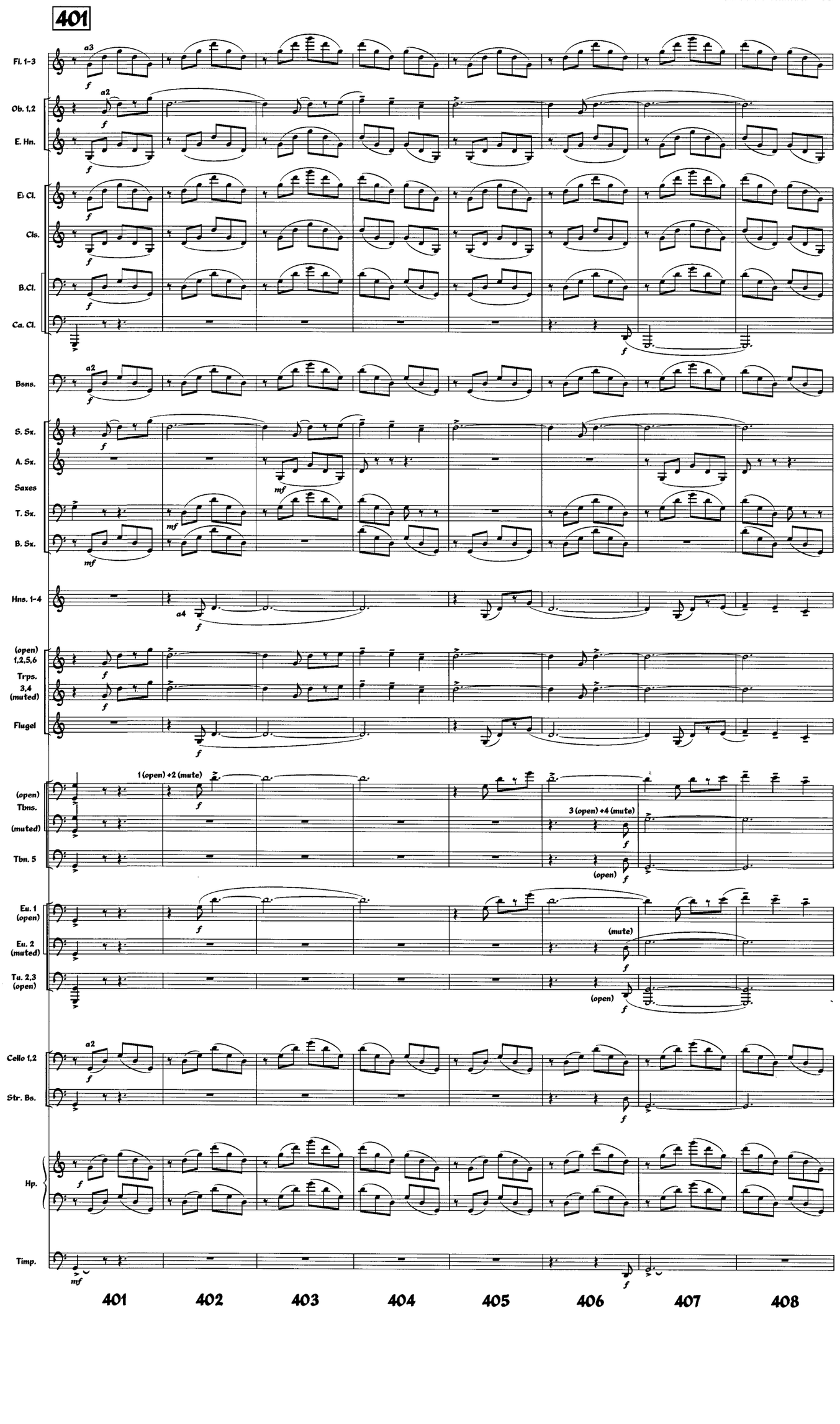

Picc.
Fl. 1,2
Fl. 3
Ob. 1
Ob. 2
E. Hn.
Cls.
B.Cl.
Ca. Cl.
Bsn. 1
Bsn. 2
S. Sx.
A. Sx.
T. Sx.
B. Sx.
Hns. 1-4
OPEN
Trp. 1
(open) Trps. 2,5,6
3,4 (mute)
Flugel
Tbn. 1
Tbn. 2
Tbn. 3
Tbn. 4
Tbn. 5
Eu. 2 (muted)
Tu. 1 (muted)
Tu. 2 (open)
Tu. 3 (open)
Vcl. 1
Vcl. 2
Str. Bs.
Hp.
Pno.
Timp.
Drums
Xylo.
Chimes
B.D.
Field Cymbals
a2
a4
sim.
very hard mallets
Field Cyms.
362
363
364
365
366
367

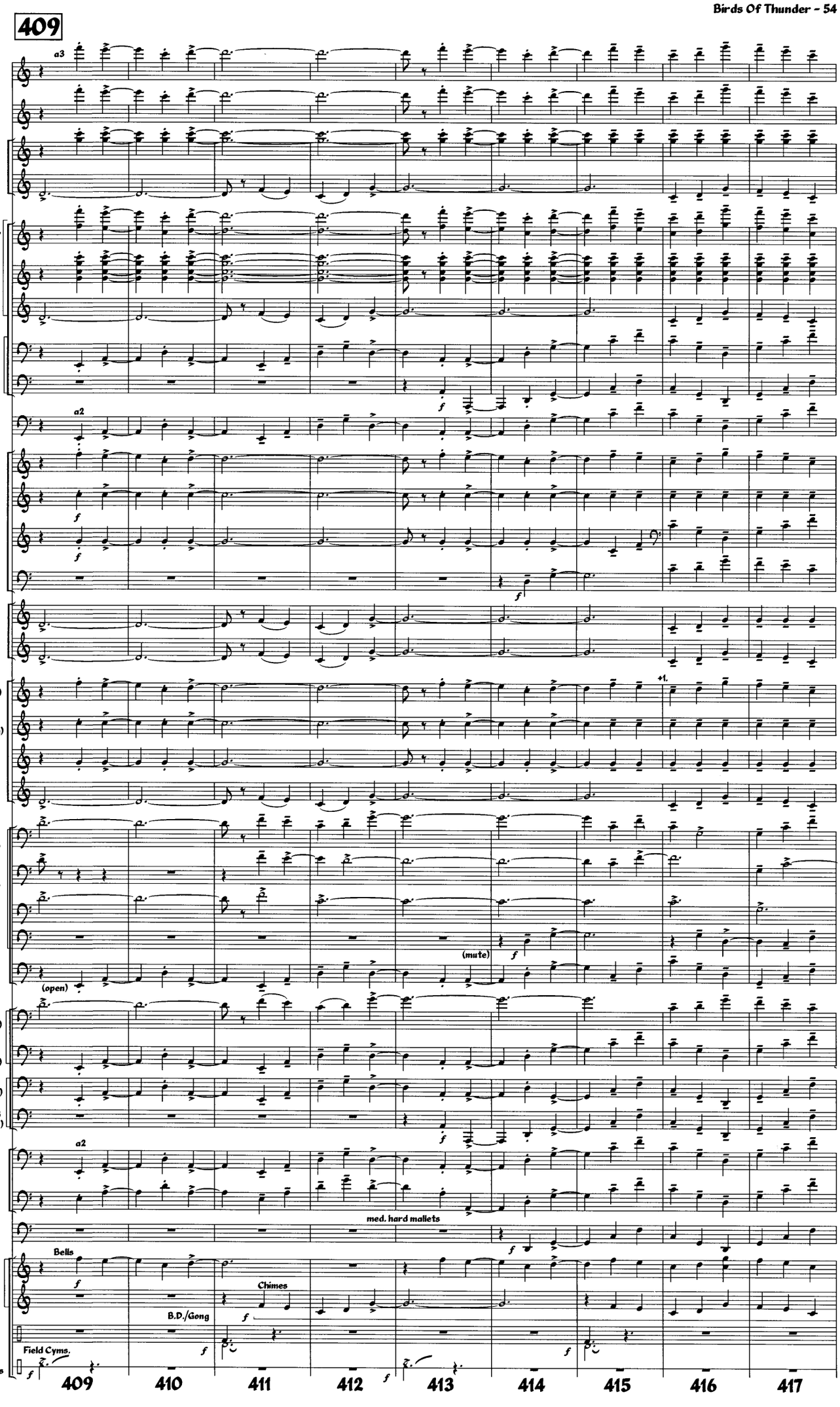

Picc.
Fl. 1
Fl. 2
Fl. 3
Ob. 1
Ob. 2
E. Hn.
E♭ Cl.
B♭ Cl. 1
B♭ Cl. 2
B♭ Cl. 3
B♭ Cl. 4
B♭ Cl. 5
B♭ Cl. 6
B.Cl.
Ca. Cl.
Bsn. 1
Bsn. 2
S. Sx.
A. Sx.
T. Sx.
B. Sx.
Hn. 1
Hn. 2
Hn. 3
Hn. 4
(open) Trps. 1,2,5,6
Trp. 3 (mute)
Trp. 4 (mute)
Flugel
1,3 (open)
Tbns. 2,4 (muted)
Tbn. 5
Eu. 1 (open)
Eu. 2 (muted)
Tu. 1 (muted)
Tu. 2 (open)
Tu. 3 (open)
Vcl. 1
Vcl. 2
Str. Bs.
Hp.
Pno.
Timp.
Drums
Xylo.
Chimes
Field Cymbals
OPEN
(open)
soli (mute)
368
369
370
371
372
373
374

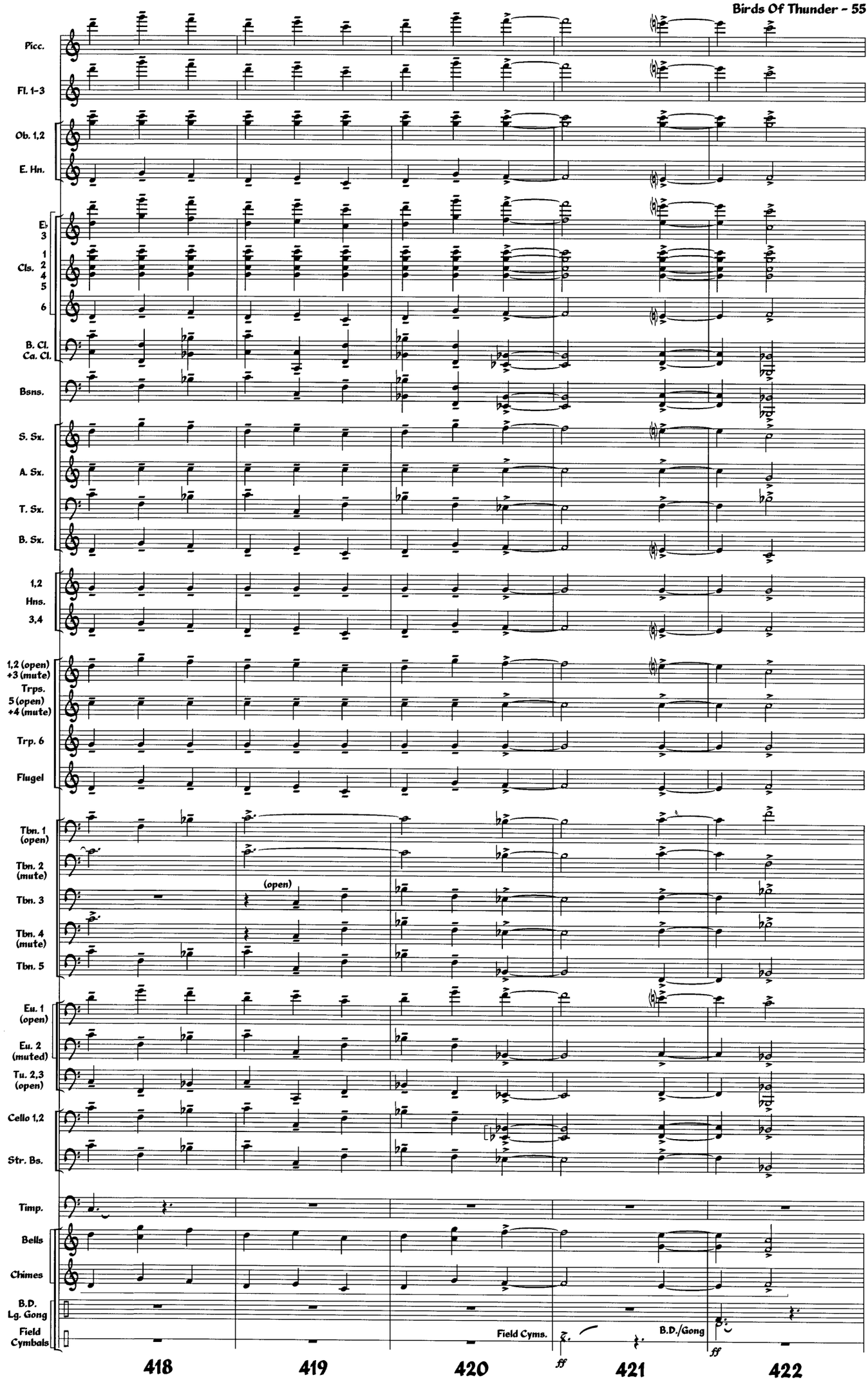

E♭
1
2
3
Cls.
4
5
6
B.
8va
Hn. 1
Hn. 2
Hn. 3
Hn. 4
(scoring by location)
Picc.
Fl. 1-3
Ob. 1,2
E. Hn.
Bsns.
a2
SA
Saxes
TB
(open)
Trps. 1,2,5,6
Trp. 3 (mute)
Trp. 4 (mute)
Flugel
(Flugel)
1,3 (open)
Tbns.
2,4 (muted)
Tbn. 5
Eu. 1 (open)
Eu. 2 (muted)
Tu. 1 (muted)
S 1
S 2
A 1
A 2
Vocs.
T 1
T 2
B 1
B 2
sneak in
pp
375
376
377
378
379
380

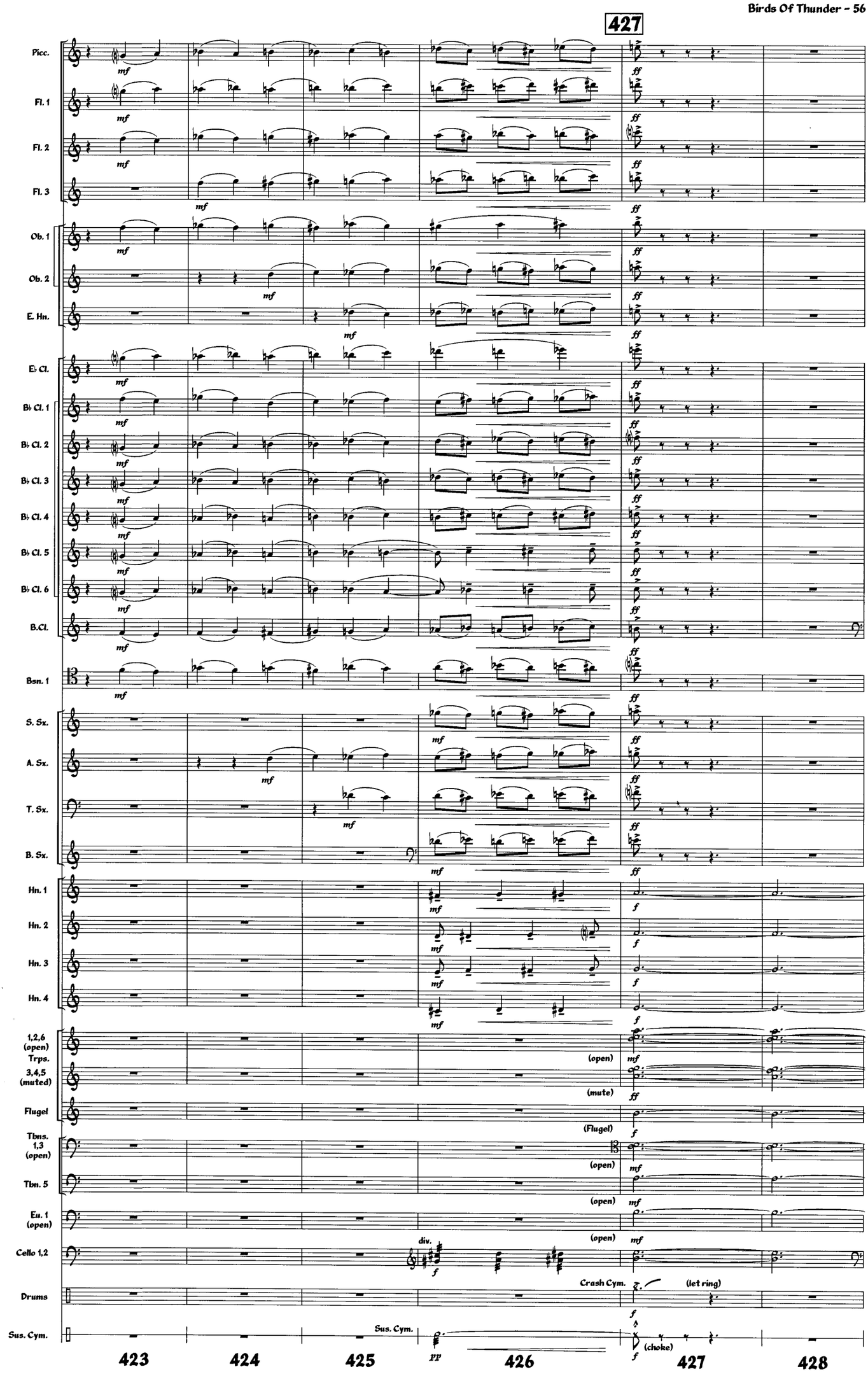

381
Fl. 1
Fl. 2
Fl. 3
Ob. 1
B♭ Cl. 1
B♭ Cl. 2
B♭ Cl. 3
B♭ Cl. 4
B♭ Cl. 5
B♭ Cl. 6
Hn. 1
Hn. 2
Hn. 3
Hn. 4
(no cresc.)
(open) Trps. 1,2,5,6
3,4 (muted)
Flugel
1,3 Tbns. (open)
Tbn. 5
Eu. 1 (open)
Vcl. 1
Brushes on ride
Drums
S 1
S 2
A 1
A 2
Vocs.
T 1
T 2
B 1
B 2
381 382 383 384 385 386 387 388 389 390 391 392

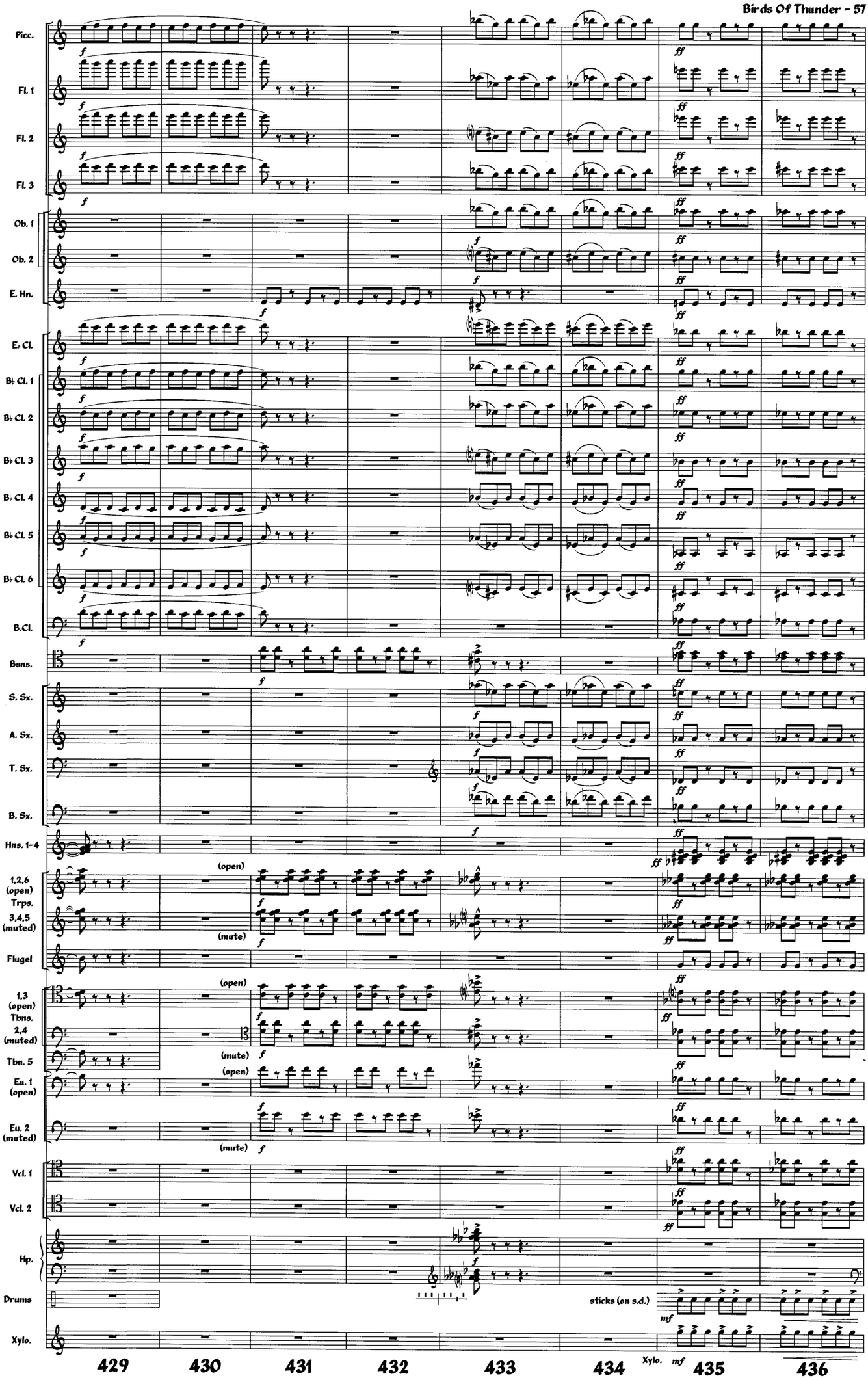

393
Picc.
Fl. 1
Fl. 2
Fl. 3
Ob. 1
Ob. 2
E. Hn.
E♭ Cl.
Cls.
B.Cl.
Ca. Cl.
Bsns.
SA
Saxes
TB
Hn. 1
Hn. 2
Hn. 3
Hn. 4
Trp. 1
Trp. 2
Trp. 5
Trp. 6
Trps. 3,4 (muted)
Flugel
1,3 (open)
Tbns.
2,4 (muted)
Tbn. 5
Eu. 1 (open)
Eu. 2 (muted)
Tu. 2 (open)
Tu. 3 (open)
Vcl. 1
Vcl. 2
Str. Bs.
Hp.
Pno.
Timp.
Drums
Chimes
Vibes
Trgl.
SSAA
TTBB
soli
a2 soli
(open)
(mute)
a2
E♮,A♮
med. hard mallets
Vibraphone
Chimes
Tri.
sempre p
AH
a4
393
394
395
396
397
398
399
400

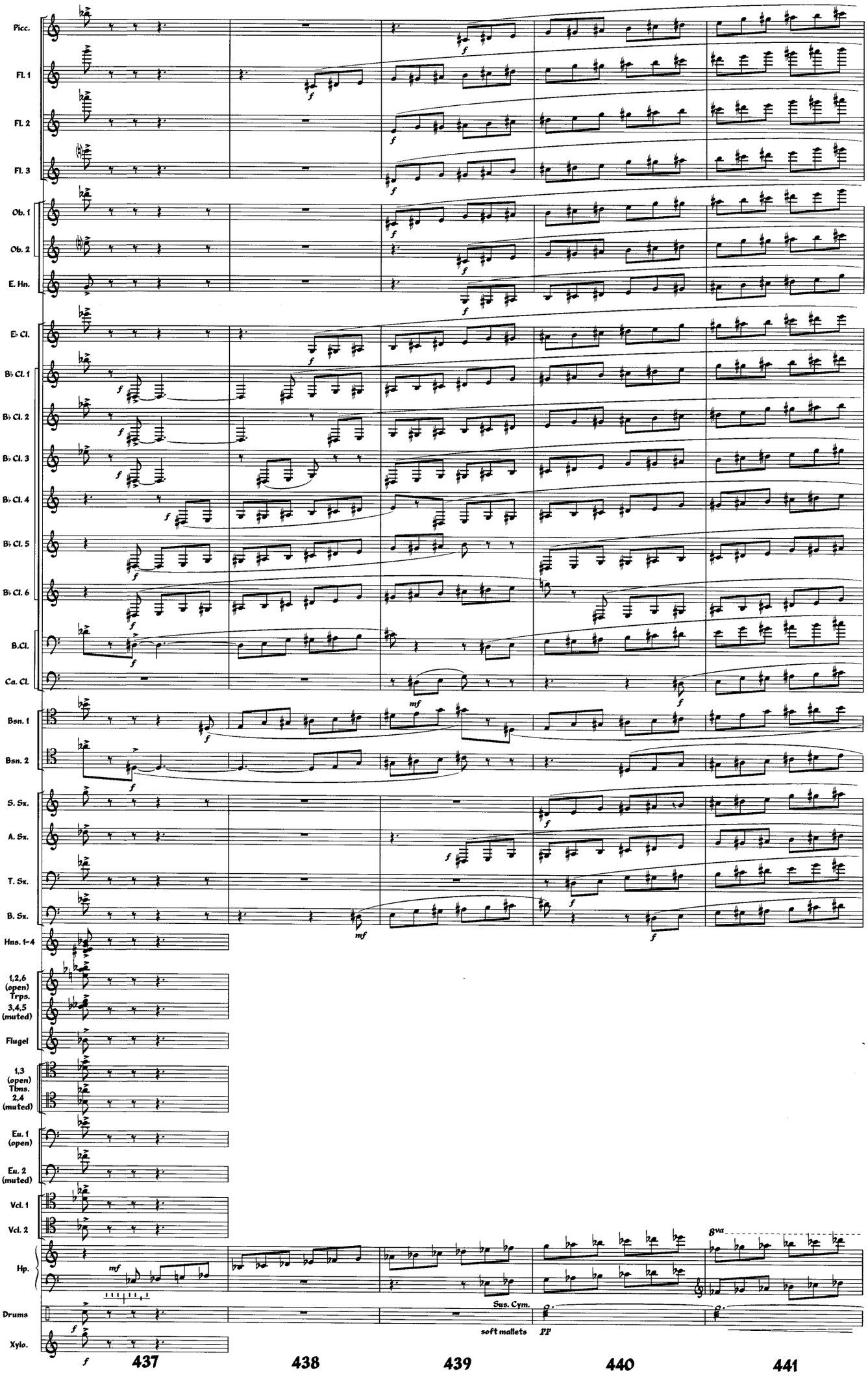

401
Fl. 1-3
Ob. 1,2
E. Hn.
E♭ Cl.
Cls.
B.Cl.
Ca. Cl.
Bsns.
S. Sx.
A. Sx.
Saxes
T. Sx.
B. Sx.
Hns. 1-4
(open) 1,2,5,6
Trps. 3,4 (muted)
Flugel
(open) Tbns.
(muted)
Tbn. 5
1 (open) +2 (mute)
3 (open) +4 (mute)
(open)
Eu. 1 (open)
Eu. 2 (muted)
Tu. 2,3 (open)
(mute)
Cello 1,2
Str. Bs.
Hp.
Timp.
401
402
403
404
405
406
407
408


409
Fl. 1-3
Picc.
Ob. 1,2
E. Hn.
E♭ 3
1 Cls. 2 4 5
6
B.Cl.
Ca. Cl.
Bsns.
S. Sx.
A. Sx.
T. Sx.
B. Sx.
1,3 Hns.
2,4
2 (open) +3 (mute) Trps.
5 (open) +4 (mute)
Trp. 6
Flugel
Tbn. 1 (open)
Tbn. 2 (mute)
Tbn. 3 (open)
Tbn. 4
Tbn. 5
Eu. 1 (open)
Eu. 2 (muted)
Tu. 2 (open)
Tu. 3 (open)
Cello 1,2
Str. Bs.
Timp.
Bells
Chimes
B.D. Lg. Gong
Field Cymbals
a3
a2
(open)
(mute)
+1.
med. hard mallets
B.D./Gong
Field Cyms.
409
410
411
412
413
414
415
416
417


Picc.
Fl. 1-3
Ob. 1,2
E. Hn.
Eb 3
Cls. 1 2 4 5
6
B. Cl. Ca. Cl.
Bsns.
S. Sx.
A. Sx.
T. Sx.
B. Sx.
1,2 Hns. 3,4
1,2 (open) +3 (mute) Trps.
5 (open) +4 (mute)
Trp. 6
Flugel
Tbn. 1 (open)
Tbn. 2 (mute)
Tbn. 3
Tbn. 4 (mute)
Tbn. 5
(open)
Eu. 1 (open)
Eu. 2 (muted)
Tu. 2,3 (open)
Cello 1,2
Str. Bs.
Timp.
Bells
Chimes
B.D. Lg. Gong
Field Cymbals
Field Cyms.
B.D./Gong
ff
ff
418
419
420
421
422


427
Picc.
Fl. 1
Fl. 2
Fl. 3
Ob. 1
Ob. 2
E. Hn.
E♭ Cl.
B♭ Cl. 1
B♭ Cl. 2
B♭ Cl. 3
B♭ Cl. 4
B♭ Cl. 5
B♭ Cl. 6
B.Cl.
Bsn. 1
S. Sx.
A. Sx.
T. Sx.
B. Sx.
Hn. 1
Hn. 2
Hn. 3
Hn. 4
1,2,6 (open) Trps.
3,4,5 (muted)
Flugel
Tbns. 1,3 (open)
Tbn. 5
Eu. 1 (open)
Cello 1,2
Drums
Sus. Cym.
(open)
(mute)
(Flugel)
div.
Crash Cym.
(let ring)
(choke)
mf
ff
f
pp
423
424
425
426
427
428


Picc.
Fl. 1
Fl. 2
Fl. 3
Ob. 1
Ob. 2
E. Hn.
E♭ Cl.
B♭ Cl. 1
B♭ Cl. 2
B♭ Cl. 3
B♭ Cl. 4
B♭ Cl. 5
B♭ Cl. 6
B.Cl.
Bsns.
S. Sx.
A. Sx.
T. Sx.
B. Sx.
Hns. 1-4
1,2,6 (open) Trps.
3,4,5 (muted)
Flugel
1,3 (open) Tbns.
2,4 (muted)
Tbn. 5
Eu. 1 (open)
Eu. 2 (muted)
Vcl. 1
Vcl. 2
Hp.
Drums
Xylo.
(open)
(mute)
sticks (on s.d.)
Xylo. mf
429
430
431
432
433
434
435
436


Picc.
Fl. 1
Fl. 2
Fl. 3
Ob. 1
Ob. 2
E. Hn.
E♭ Cl.
B♭ Cl. 1
B♭ Cl. 2
B♭ Cl. 3
B♭ Cl. 4
B♭ Cl. 5
B♭ Cl. 6
B.Cl.
Ca. Cl.
Bsn. 1
Bsn. 2
S. Sx.
A. Sx.
T. Sx.
B. Sx.
Hns. 1-4
1,2,6 (open) Trps. 3,4,5 (muted)
Flugel
1,3 (open) Tbns. 2,4 (muted)
Eu. 1 (open)
Eu. 2 (muted)
Vcl. 1
Vcl. 2
Hp.
Drums
Xylo.
8va
Sus. Cym.
soft mallets
437
438
439
440
441

442

Picc.
Fl. 1
Cl. 2
Fl. 2
S. Sx.
Fl. 3
Cl. 3
Trp. 1 (open)
E♭ Cl.
Cl. 4
Ob. 1
Trp. 4 (mute)
Cl. 1
A. Sx.
Trp. 2 (open)
Ob. 2
Flugel
(open) Trp. 5
Tbn. 1 (open)
(open) Trp. 6
Tbn. 2 (open)
Hn. 1
Tbn. 3 (open)
Hn. 3
Tbn. 4 (open)
Hn. 2
Eu. 2 (mute)
Hn. 4
Tbn. 5 (open)
Eu. 1 (open)
Tu. 1 (mute)
Cello 1,2 +Cb.

(8va)

Hp.

Db

(progressive release by pitch class)

very soft mallets

Timp.

sneak in

Drums

Chimes

not to be heard above the ensemble

poco a poco dim. - - -

let all ring

Vibraphone

Vibes

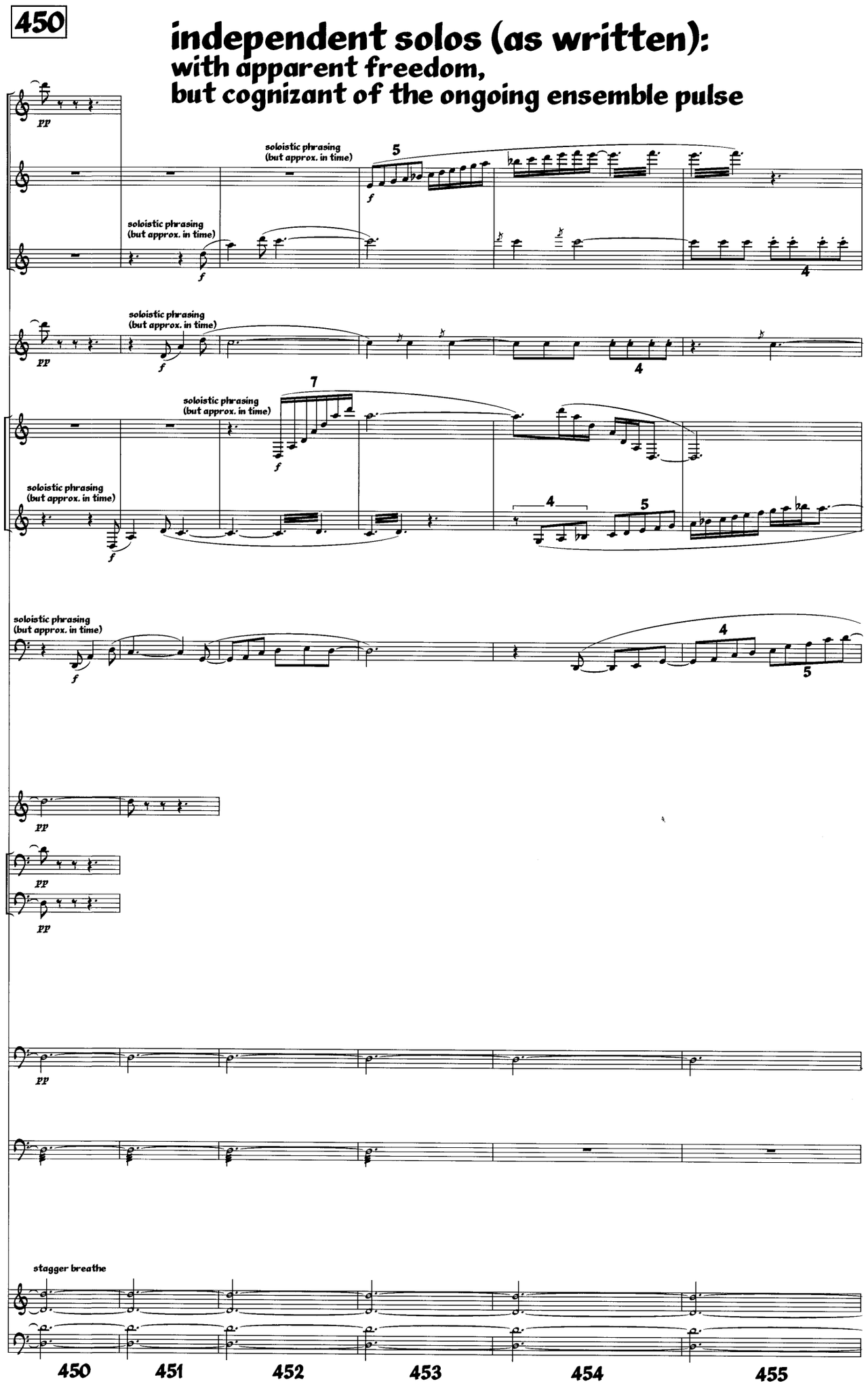
S 1
S 2
A 1
A 2

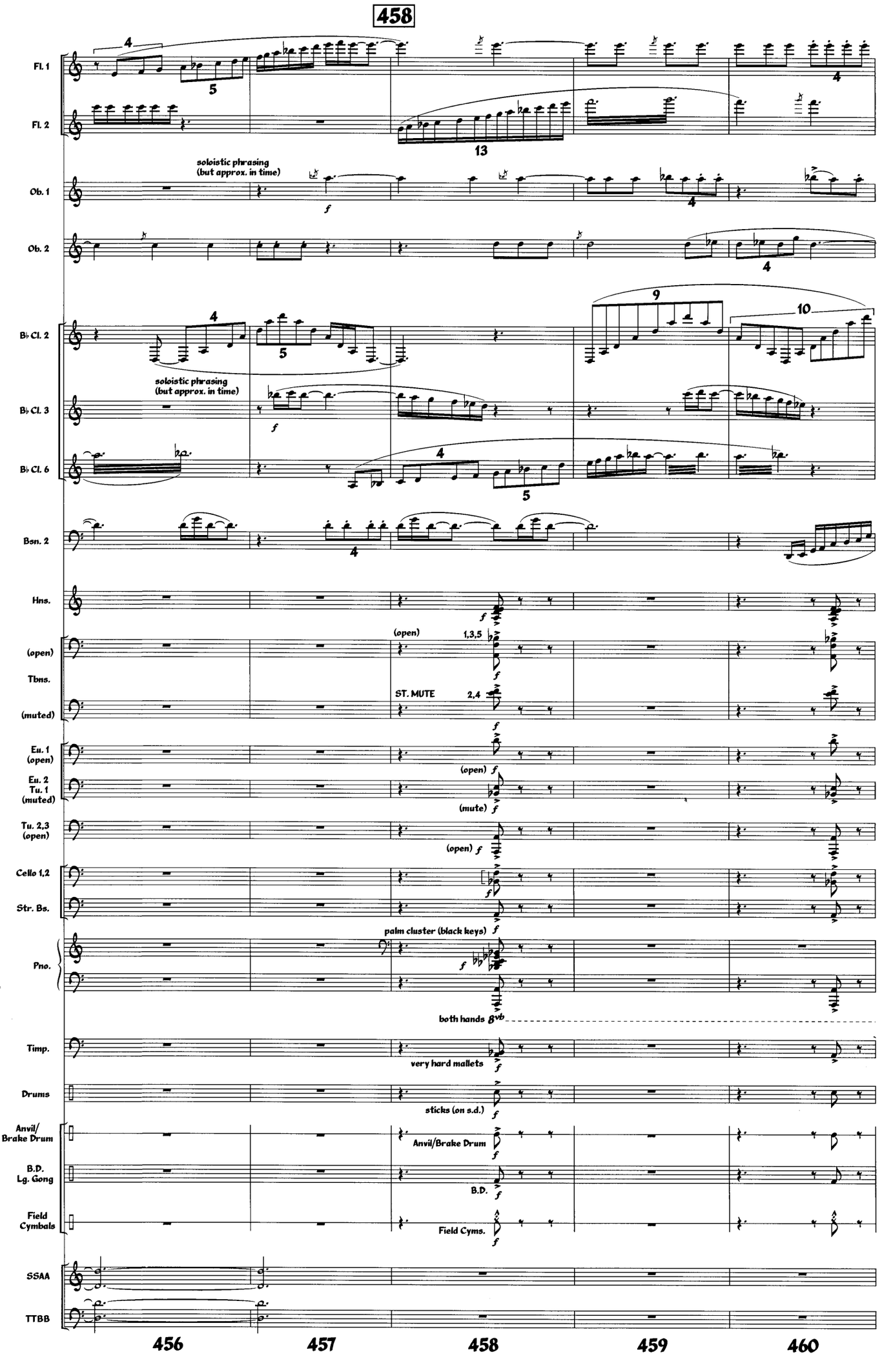
sneak in

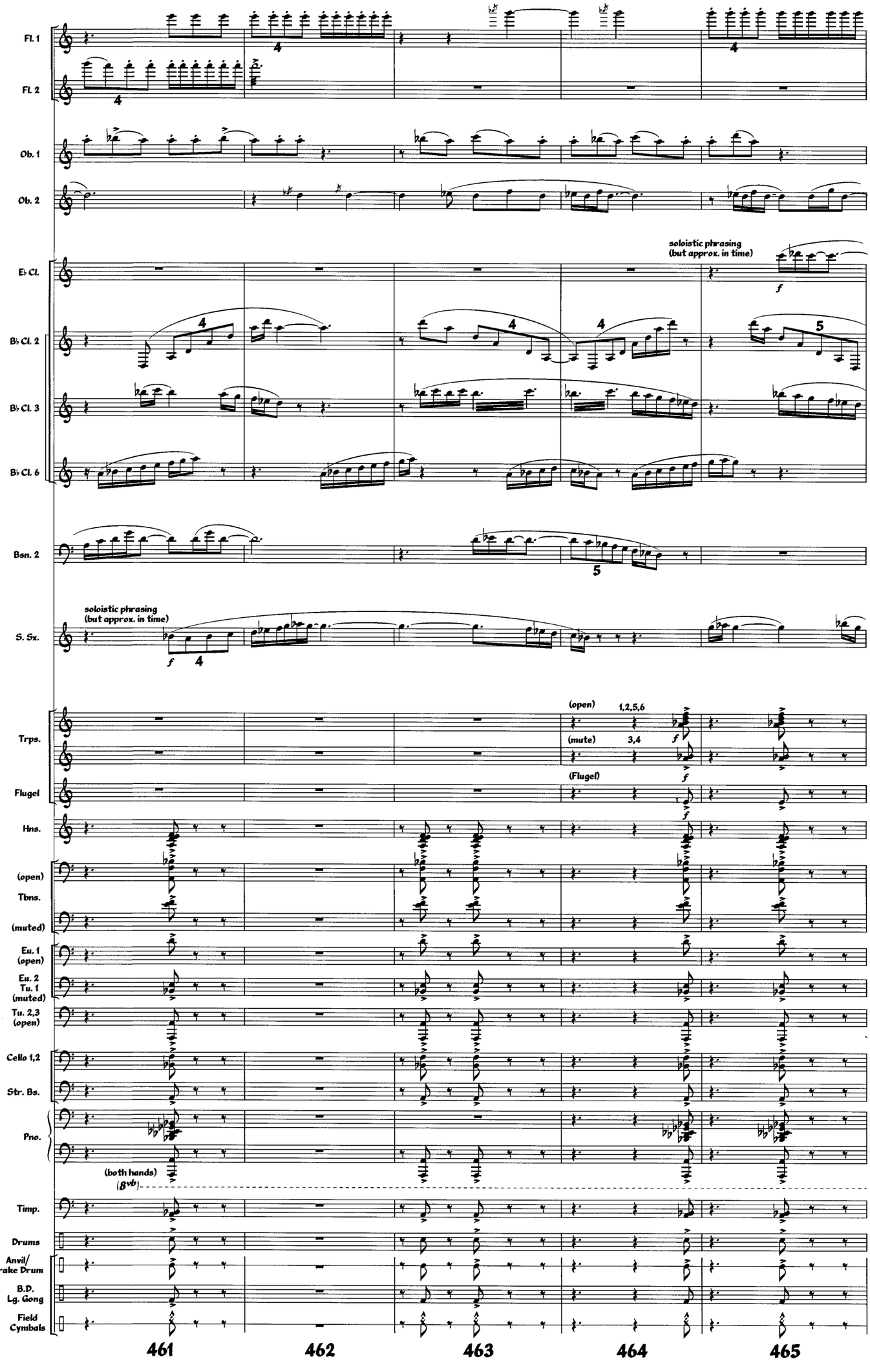
AH

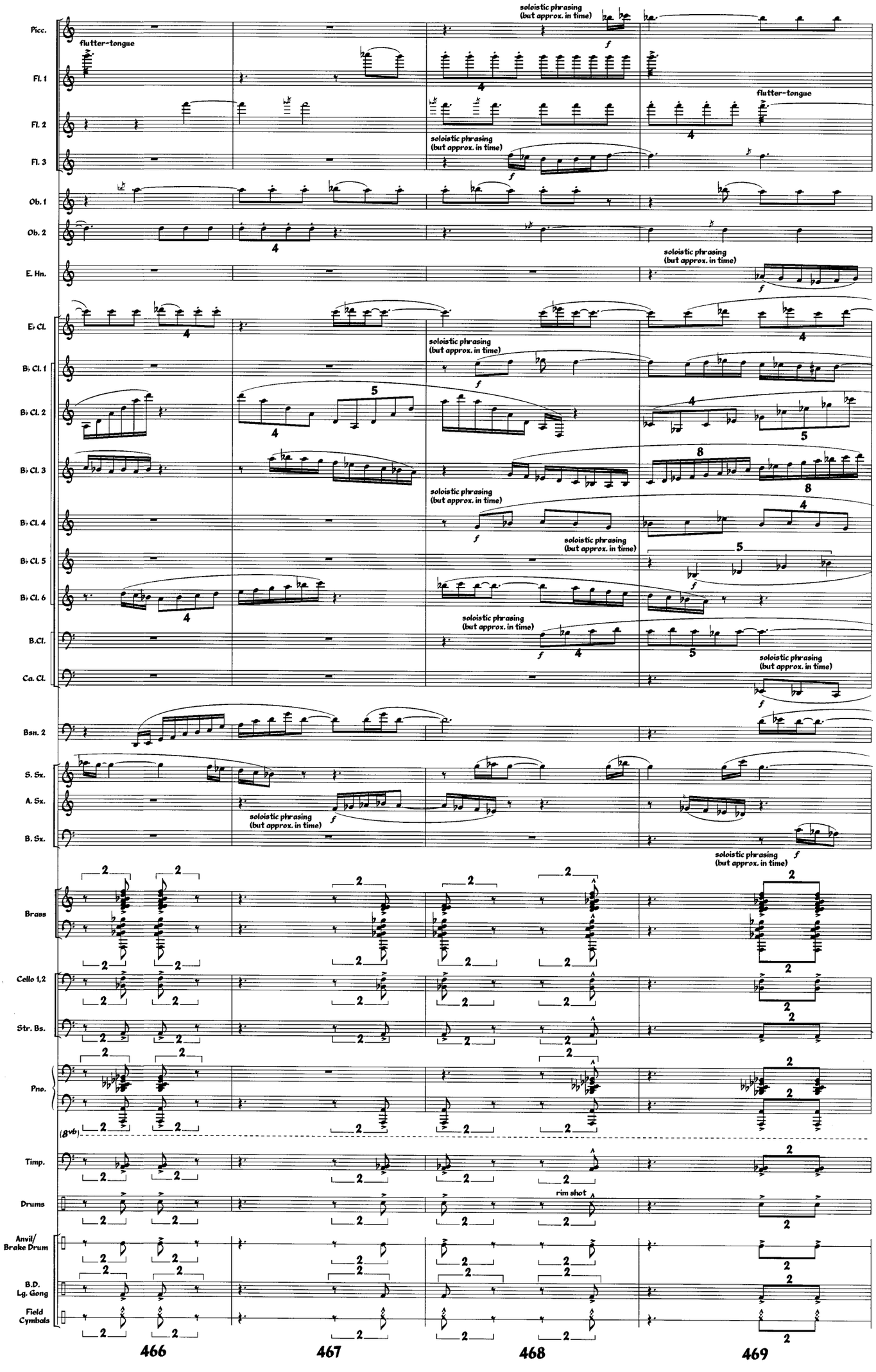
Vocs.
T 1
T 2
B 1
B 2

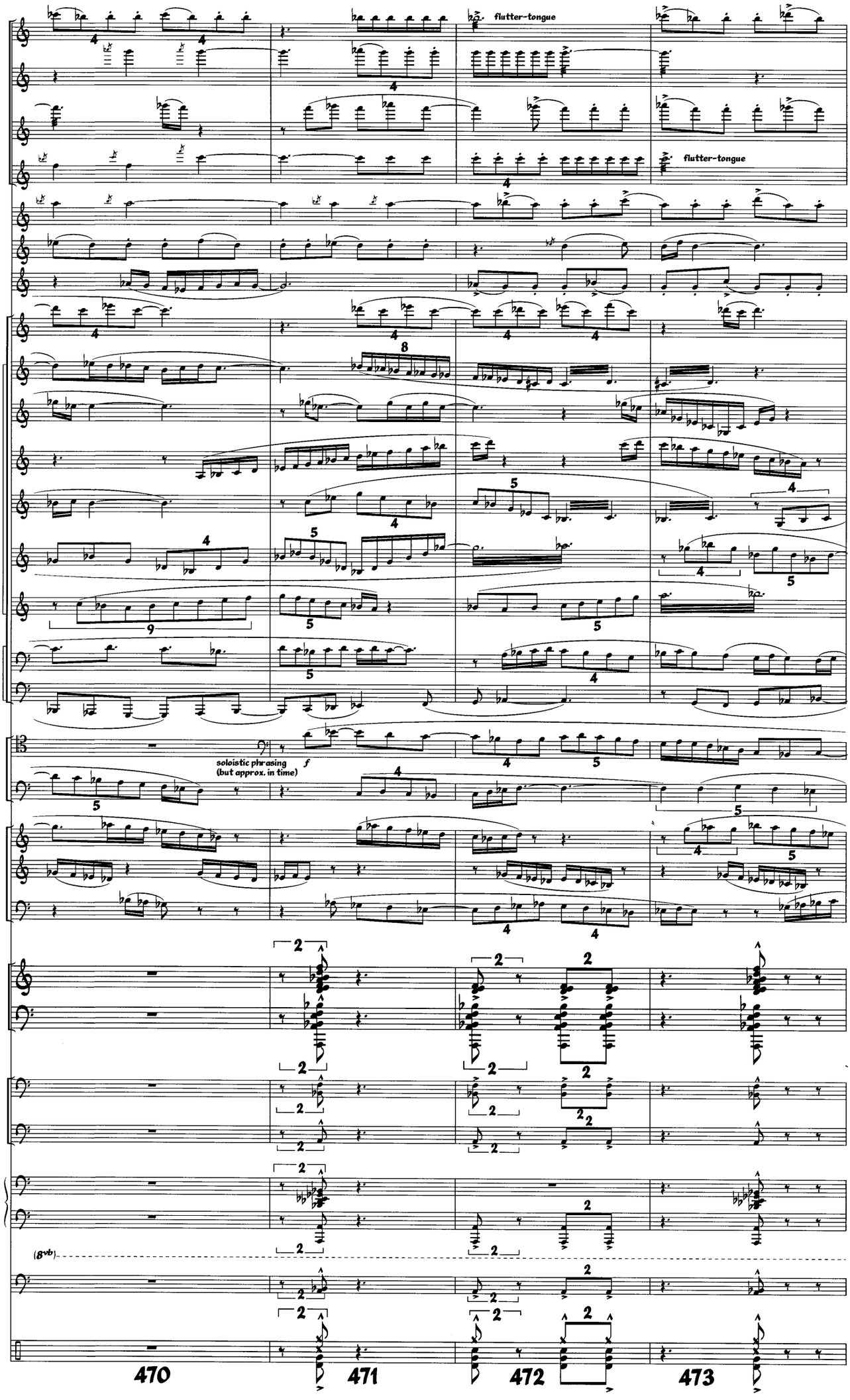
442 443 444 445 446 447 448 449

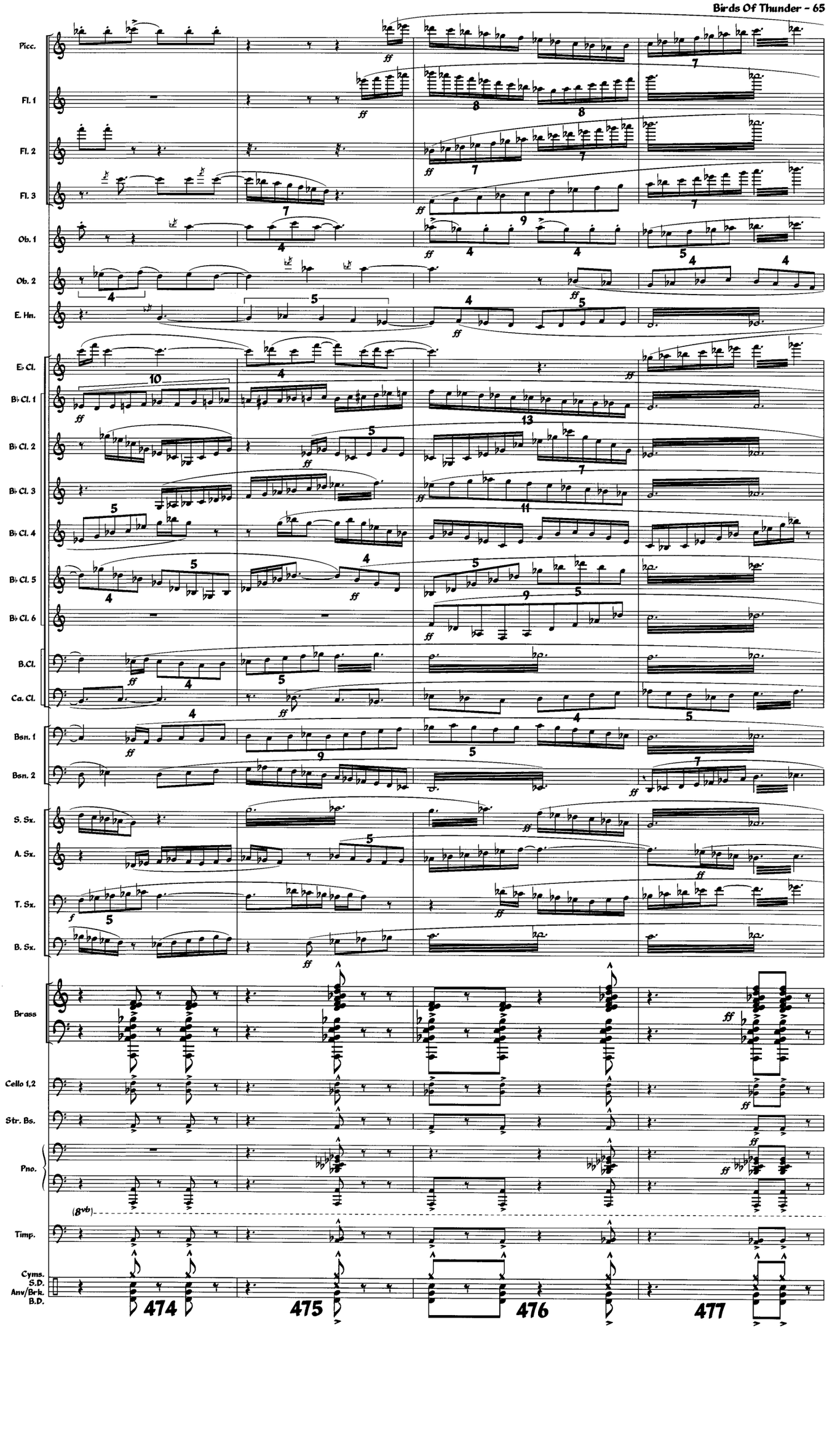

450
independent solos (as written):
with apparent freedom,
but cognizant of the ongoing ensemble pulse
Picc.
Fl. 1
Fl. 2
Ob. 2
B♭ Cl. 2
B♭ Cl. 6
Bsn. 2
Flugel
Eu. 1 (open)
Tu. 1 (muted)
Cello 1,2 +Cb.
Timp.
SSAA Vocs.
TTBB
soloistic phrasing (but approx. in time)
stagger breathe
pp
f
450
451
452
453
454
455

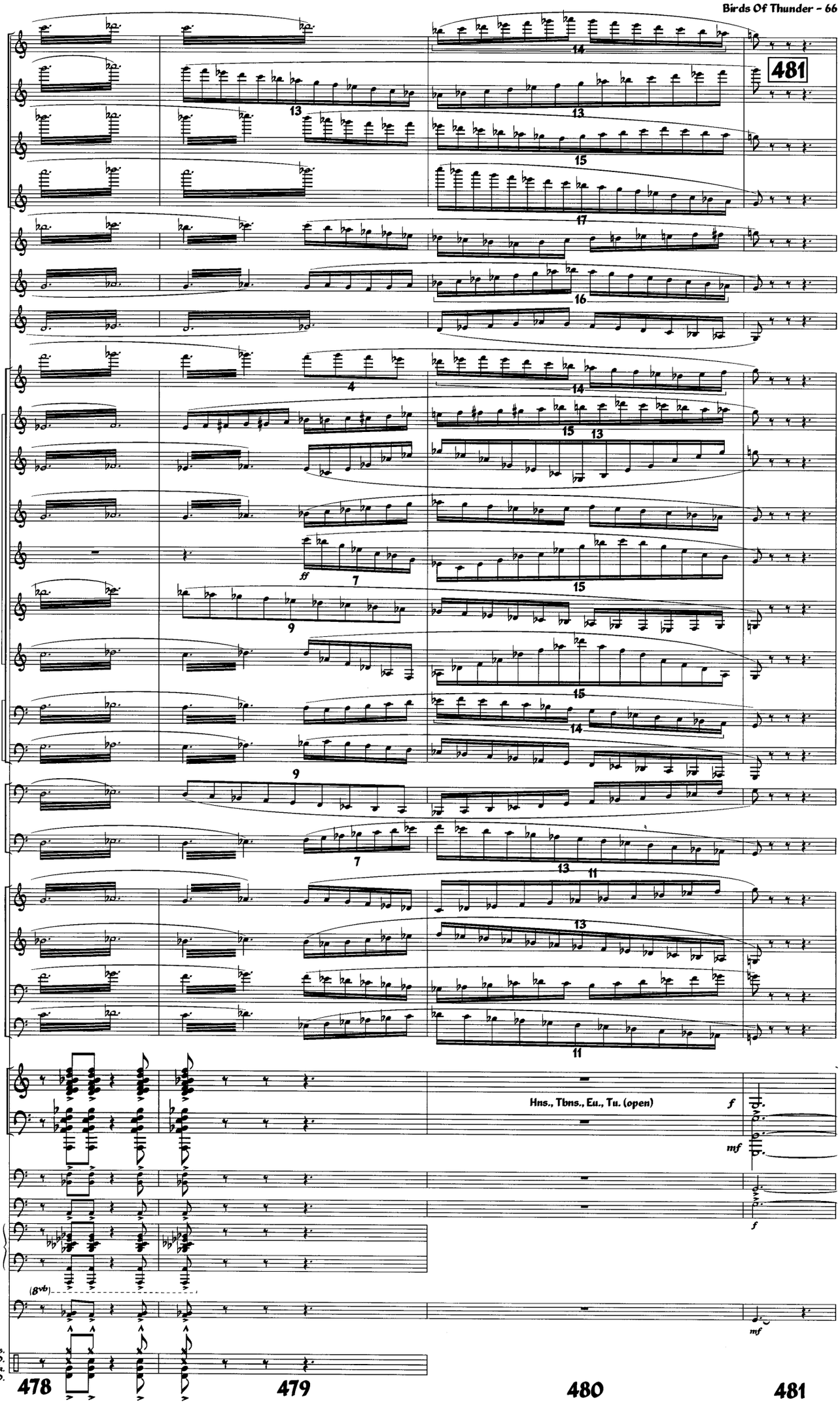

458
Fl. 1
Fl. 2
Ob. 1
Ob. 2
B♭ Cl. 2
B♭ Cl. 3
B♭ Cl. 6
Bsn. 2
Hns.
(open)
Tbns.
(muted)
Eu. 1 (open)
Eu. 2 Tu. 1 (muted)
Tu. 2,3 (open)
Cello 1,2
Str. Bs.
Pno.
Timp.
Drums
Anvil/ Brake Drum
B.D. Lg. Gong
Field Cymbals
SSAA
TTBB
soloistic phrasing (but approx. in time)
soloistic phrasing (but approx. in time)
(open)
1,3,5
ST. MUTE
2,4
(open)
(mute)
(open)
palm cluster (black keys)
both hands 8vb
very hard mallets
sticks (on s.d.)
Anvil/Brake Drum
B.D.
Field Cyms.
456
457
458
459
460

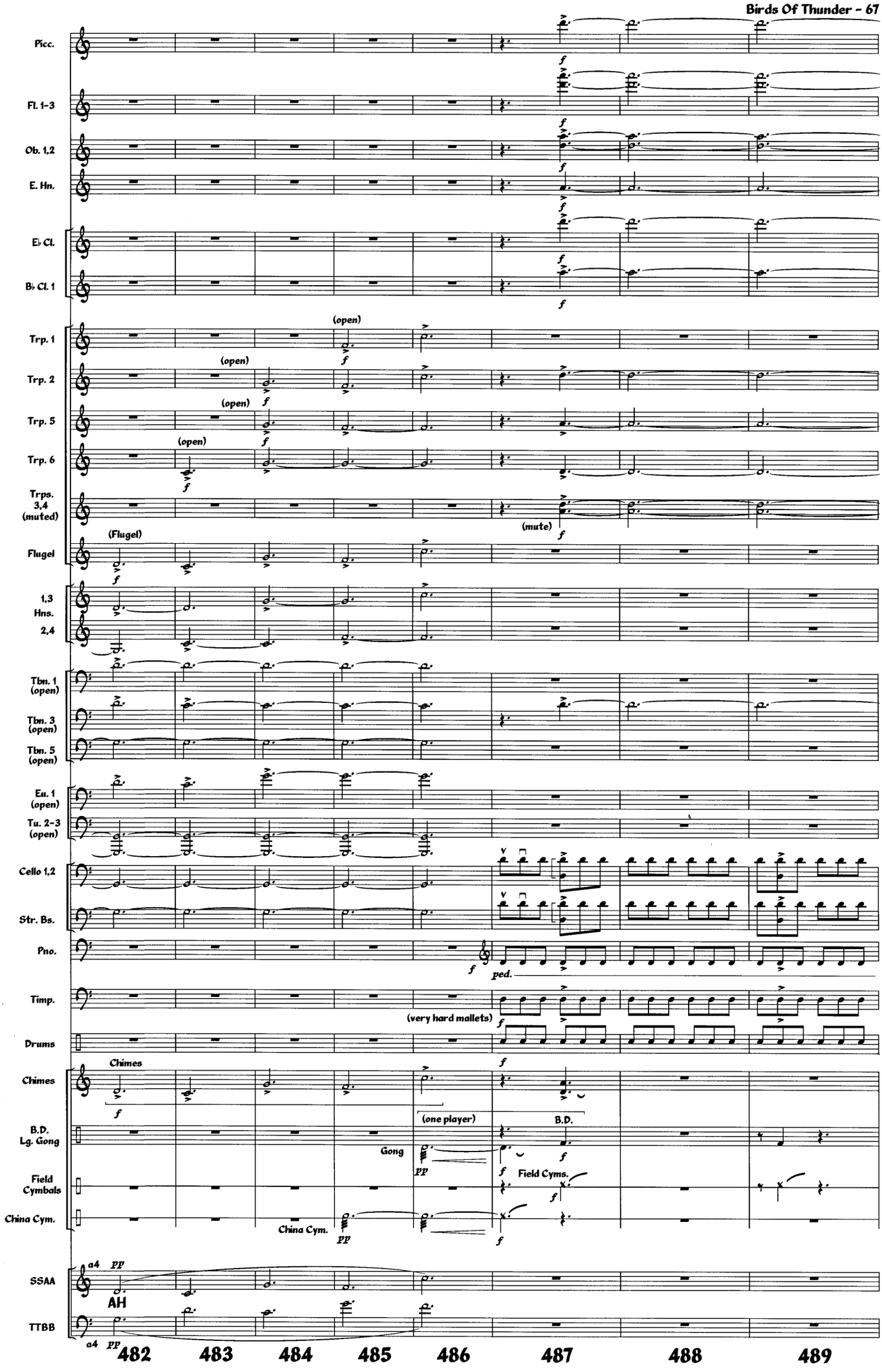

Fl. 1
Fl. 2
Ob. 1
Ob. 2
E♭ Cl.
soloistic phrasing
(but approx. in time)
B♭ Cl. 2
B♭ Cl. 3
B♭ Cl. 6
Bsn. 2
S. Sx.
soloistic phrasing
(but approx. in time)
Trps.
(open)
1,2,5,6
(mute)
3,4
Flugel
(Flugel)
Hns.
(open)
Tbns.
(muted)
Eu. 1
(open)
Eu. 2
Tu. 1
(muted)
Tu. 2,3
(open)
Cello 1,2
Str. Bs.
Pno.
(both hands)
(8vb)
Timp.
Drums
Anvil/
Brake Drum
B.D.
Lg. Gong
Field
Cymbals
461
462
463
464
465

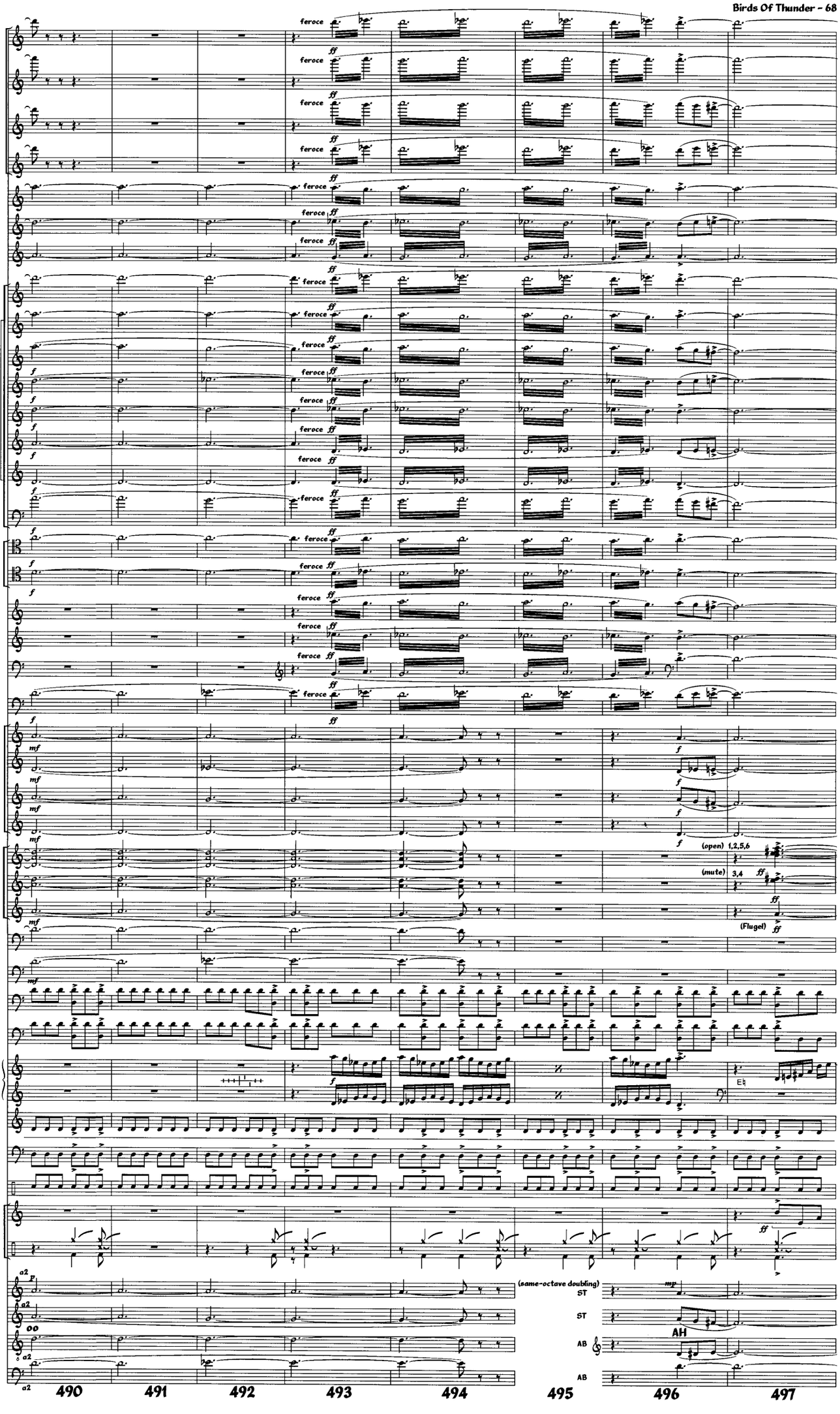

Picc.
flutter-tongue
soloistic phrasing (but approx. in time)
Fl. 1
Fl. 2
flutter-tongue
Fl. 3
soloistic phrasing (but approx. in time)
Ob. 1
Ob. 2
E. Hn.
soloistic phrasing (but approx. in time)
E♭ Cl.
B♭ Cl. 1
soloistic phrasing (but approx. in time)
B♭ Cl. 2
B♭ Cl. 3
B♭ Cl. 4
soloistic phrasing (but approx. in time)
B♭ Cl. 5
soloistic phrasing (but approx. in time)
B♭ Cl. 6
soloistic phrasing (but approx. in time)
B.Cl.
Ca. Cl.
soloistic phrasing (but approx. in time)
Bsn. 2
S. Sx.
A. Sx.
soloistic phrasing (but approx. in time)
B. Sx.
soloistic phrasing (but approx. in time)
Brass
Cello 1,2
Str. Bs.
Pno.
(8vb)
Timp.
Drums
rim shot
Anvil/ Brake Drum
B.D. Lg. Gong
Field Cymbals
466
467
468
469

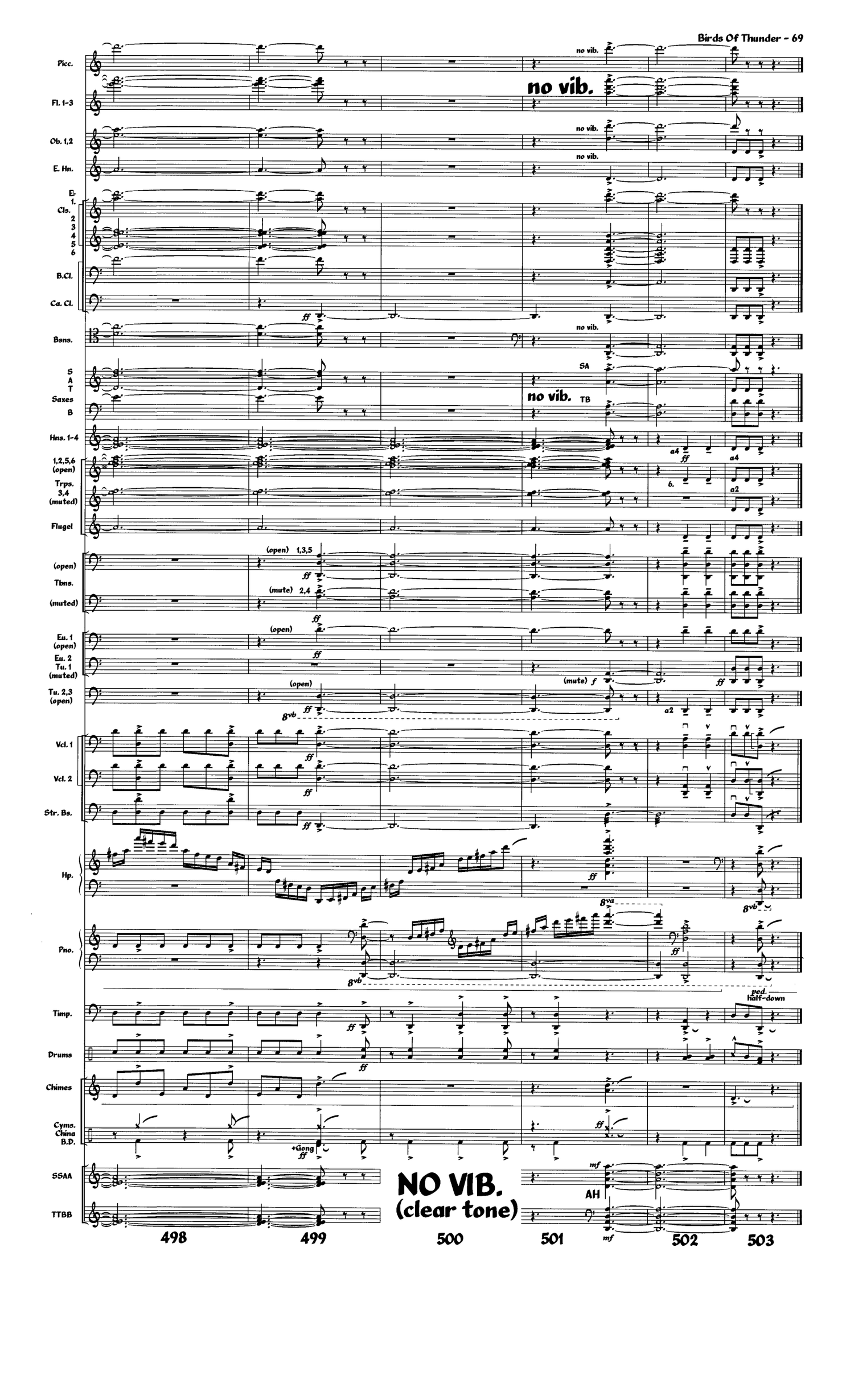

Picc.
Fl. 1
Fl. 2
Fl. 3
Ob. 1
Ob. 2
E. Hn.
E♭ Cl.
B♭ Cl. 1
B♭ Cl. 2
B♭ Cl. 3
B♭ Cl. 4
B♭ Cl. 5
B♭ Cl. 6
B.Cl.
Ca. Cl.
Bsn. 1
Bsn. 2
S. Sx.
A. Sx.
B. Sx.
Brass
Cello 1,2
Str. Bs.
Pno.
Timp.
Cyms.
S.D.
Anv/Brk.
B.D.
flutter-tongue
flutter-tongue
soloistic phrasing
(but approx. in time)
f
(8vb)
470
471
472
473


Picc.
Fl. 1
Fl. 2
Fl. 3
Ob. 1
Ob. 2
E. Hn.
E♭ Cl.
B♭ Cl. 1
B♭ Cl. 2
B♭ Cl. 3
B♭ Cl. 4
B♭ Cl. 5
B♭ Cl. 6
B.Cl.
Ca. Cl.
Bsn. 1
Bsn. 2
S. Sx.
A. Sx.
T. Sx.
B. Sx.
Brass
Cello 1,2
Str. Bs.
Pno.
(8vb)
Timp.
Cyms.
S.D.
Anv/Brk.
B.D.
474
475
476
477


Picc.
Fl. 1
Fl. 2
Fl. 3
Ob. 1
Ob. 2
E. Hn.
E♭ Cl.
B♭ Cl. 1
B♭ Cl. 2
B♭ Cl. 3
B♭ Cl. 4
B♭ Cl. 5
B♭ Cl. 6
B.Cl.
Ca. Cl.
Bsn. 1
Bsn. 2
S. Sx.
A. Sx.
T. Sx.
B. Sx.
Brass
Cello 1,2
Str. Bs.
Pno.
Timp.
Cyms.
S.D.
Anv/Brk.
B.D.
481
Hns., Tbns., Eu., Tu. (open)
f
mf
(8vb)
478
479
480
481


Picc.
Fl. 1-3
Ob. 1,2
E. Hn.
E♭ Cl.
B♭ Cl. 1
Trp. 1
Trp. 2
Trp. 5
Trp. 6
Trps. 3,4 (muted)
Flugel
1,3 Hns.
2,4
Tbn. 1 (open)
Tbn. 3 (open)
Tbn. 5 (open)
Eu. 1 (open)
Tu. 2-3 (open)
Cello 1,2
Str. Bs.
Pno.
Timp.
Drums
Chimes
B.D. Lg. Gong
Field Cymbals
China Cym.
SSAA
TTBB
(open)
(Flugel)
(mute)
ped.
(very hard mallets)
(one player)
Gong
B.D.
Field Cyms.
China Cym.
AH
482
483
484
485
486
487
488
489


Picc.
Fl. 1
Fl. 2
Fl. 3
Ob. 1
Ob. 2
E. Hn.
E♭ Cl.
B♭ Cl. 1
B♭ Cl. 2
B♭ Cl. 3
B♭ Cl. 4
B♭ Cl. 5
B♭ Cl. 6
B.Cl.
Bsn. 1
Bsn. 2
S. Sx.
A. Sx.
T. Sx.
B. Sx.
Hn. 1
Hn. 2
Hn. 3
Hn. 4
2,5,6 (open) Trps.
3,4 (mute)
Flugel
(open) Tbn. 3
Eu. 1 (open)
Cello 1,2
Str. Bs.
Hp.
Pno.
Timp.
Drums
Chimes
Cyms. China B.D.
SA
SA
Vocs.
TT
BB
feroce
(open) 1,2,5,6
(mute) 3,4
(Flugel)
(same-octave doubling)
ST
ST
AB
AB
AH
490
491
492
493
494
495
496
497


Picc.
Fl. 1-3
Ob. 1,2
E. Hn.
E♭ Cls. 1
2
3
4
5
6
B.Cl.
Ca. Cl.
Bsns.
S
A
T
Saxes
B
Hns. 1-4
1,2,5,6 (open)
Trps. 3,4 (muted)
Flugel
(open)
Tbns.
(muted)
Eu. 1 (open)
Eu. 2 Tu. 1 (muted)
Tu. 2,3 (open)
Vcl. 1
Vcl. 2
Str. Bs.
Hp.
Pno.
Timp.
Drums
Chimes
Cyms. China B.D.
SSAA
TTBB
no vib.
SA
TB
(open) 1,3,5
(mute) 2,4
(mute)
ped. half-down
+Gong
NO VIB. (clear tone)
AH
498
499
500
501
502
503