Seafloor Dawn Chorus

Full Score

Kristine Tjøgersen 2018

Kristine Tjøgersen - Seafloor Dawn Chorus (2018)

Written and dedicated to Ensemble Recherche
Duration: approx. 9 min
Premiered in Freiburg 1. February 2019 by Ensemble Recherche
Revised summer 2019 with Double Bass

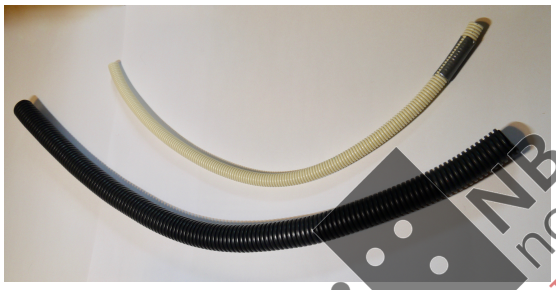
Instrumentation

Flute/Bass Flute

Clarinet/Bass Clarinet

Percussion

vibraphone with motor
timpani
nipple gong in G# 1
gamelan gong in Bb 2
plastic tube (the black one, approx. 30 mm wide and 74 cm long)



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air spray

bird flute

slide whistle prepared with tack-it (air sound only)

Piano

plastic tube (the white one, 16 mm wide and 61 cm long)
superball mallet
slide whistle prepared with tack-it (air sound only)

Violin

Viola

tube bow

Cello

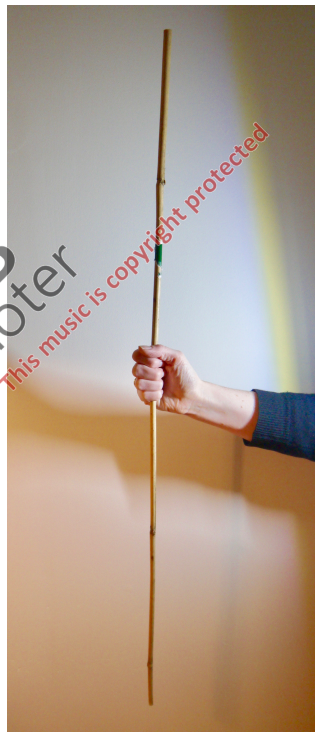
tube bow
G string is tuned down to E, written as sounding

Double Bass

tube bow

<u>How to make tube-bow:</u>

Plastic tube 16 mm wide + bamboo flower stick



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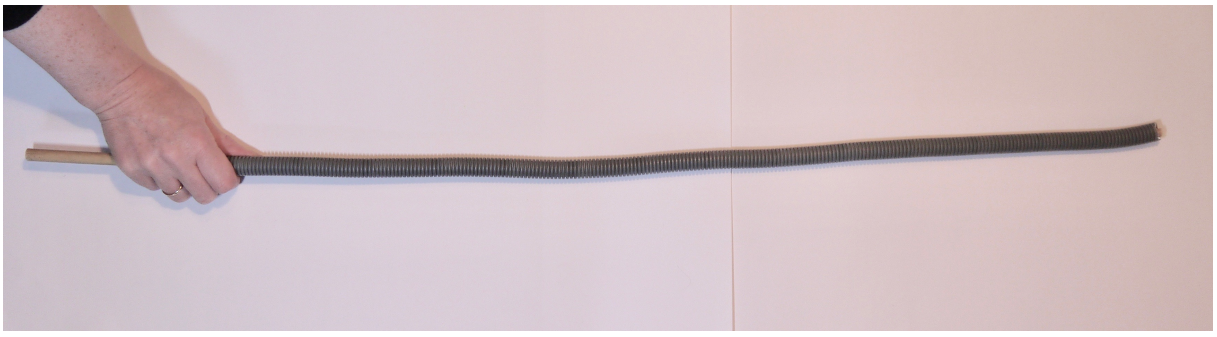
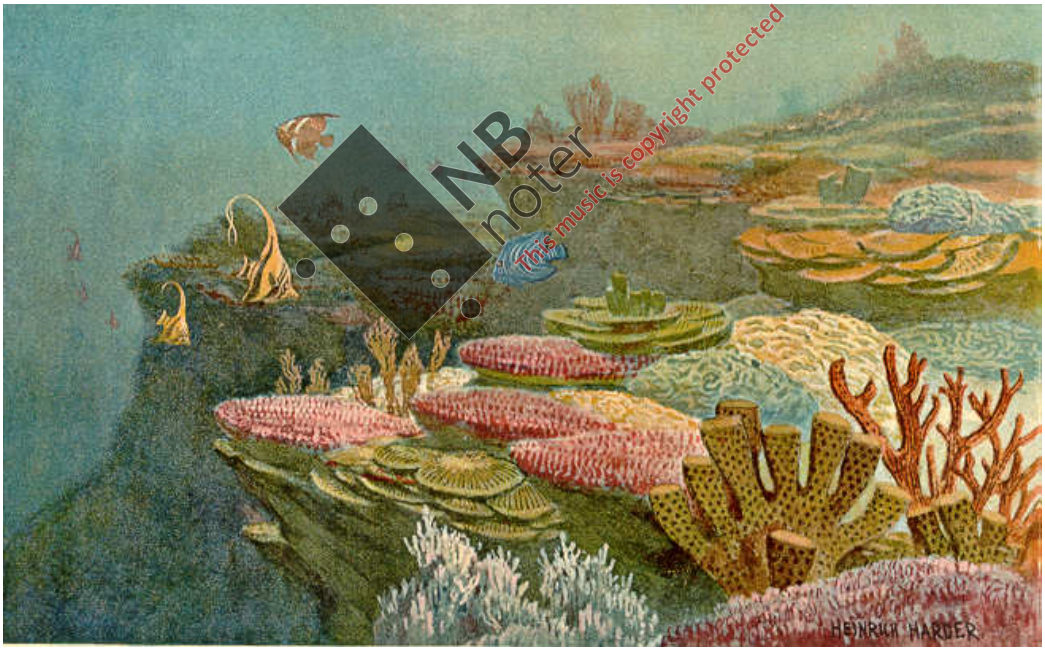
= tube bow



This piece is inspired by underwater recordings of fish singing at the Great Barrier Reef. Humans tend to think that the ocean is a quiet place, but scientists have recorded reef fish singing just like songbirds. When the calls of different fish overlap, they form a chorus, which are often performed in reef habitats around dusk and dawn.

In this piece I wanted to create an underwater environment for everyone to hear, and I have transcribed and been inspired by the sounds of fish like the Soloist Fish, Batfish, Black Jewfish, and also the sounds of Shrimps and Corals.

Sound plays an important role in various fish behaviours such as reproduction, feeding and territorial disputes. Nocturnal predatory fish use calls to stay together to hunt, while fish that are active during the day use sound to defend their territory. “You get the dusk and dawn choruses like you would with the birds in the forest,” says Steve Simpson, a marine biologist at the University of Exeter, UK.

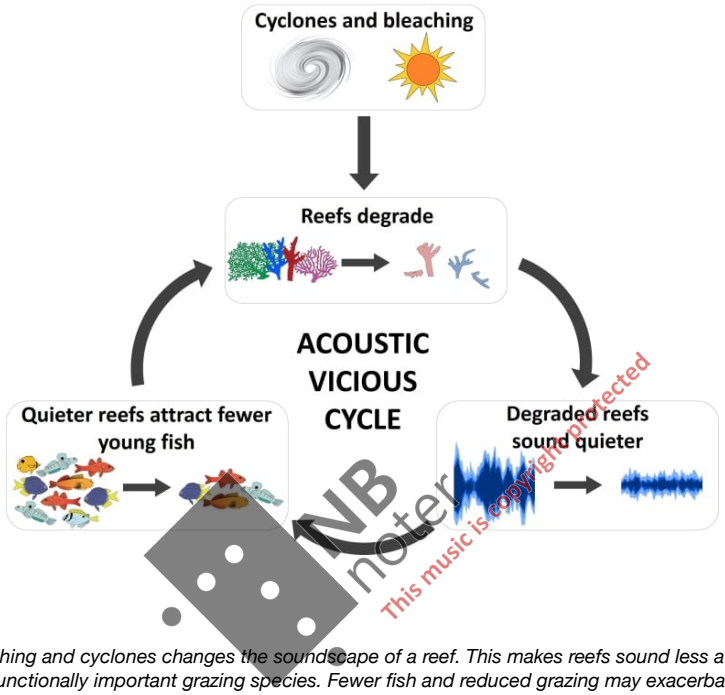


Ancient Coral Reefs - Heinrich Harder (1858-1935)

Coral reefs are some of the most beautiful and the most valuable ecosystems that we have in the world. The sounds that come from the Northern Great Barrier Reef have got quieter in the last five years. Between 2012 and 2016, the area of the Great Barrier Reef where the scientists recorded saw two cyclones, one the strongest that had ever hit that part of the reef. On top of that, there was a record-setting heat wave that according to a recent study in the journal Nature, killed almost a third of the reef's coral.

When the scientists went back to the reef in 2016, what they saw was heartbreaking; «Where there used to be colour and life in this incredible vista in every direction, it really is like diving in a graveyard now.» The sound of the reef had also significantly changed.

«Not only has the volume gone down substantially, but also the quality of the sound has changed. The acoustic complexity has gone down, there's less going on. You can hear what is a dying reef» says Tim Gordon, University of Exeter.



Degradation caused by bleaching and cyclones changes the soundscape of a reef. This makes reefs sound less attractive to young fishes, potentially reducing the populations of functionally important grazing species. Fewer fish and reduced grazing may exacerbate degradation, preventing recovery. (University of Exeter)

I think musicians and composers with a concern for nature can create engagement through addressing these subjects in the concert halls, and encourage a closeness with nature through music.

By bringing nature into music, we can get to know valuable forms of life, and create interest by having the composers' view on the matters. In this way, one can be made aware of what can get lost if humans continue to change nature.

Kristine Tjøgersen

Hamarøy, 26.11.18

MULTIPHONICS FLUTE

Kristine Tjøgersen

M1	
M2	
M3	this may have to be tuned/bent up to get the right pitch
M4	
BASS FLUTE	
M5	
M6	
M7	

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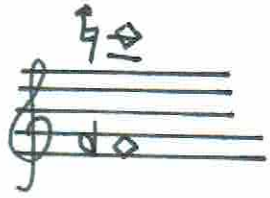
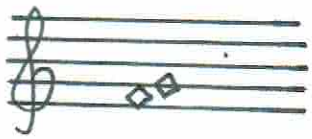
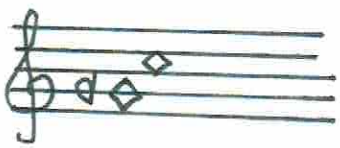
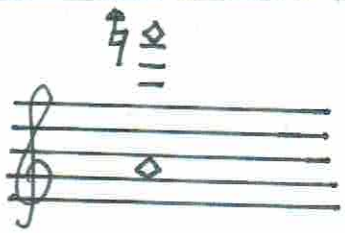
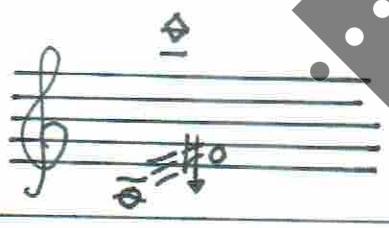
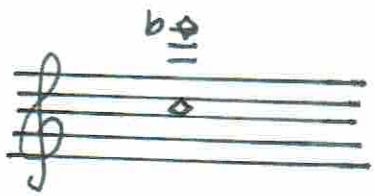
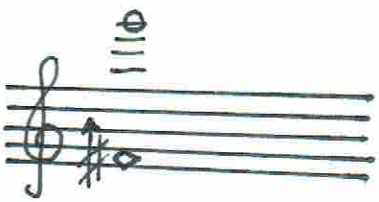
MULTIPHONICS
CLARINET / BS. CLARINET

Kristine Tjøgersen

M1		
M2		
M3		
M4		
M5		
M6		
M7		

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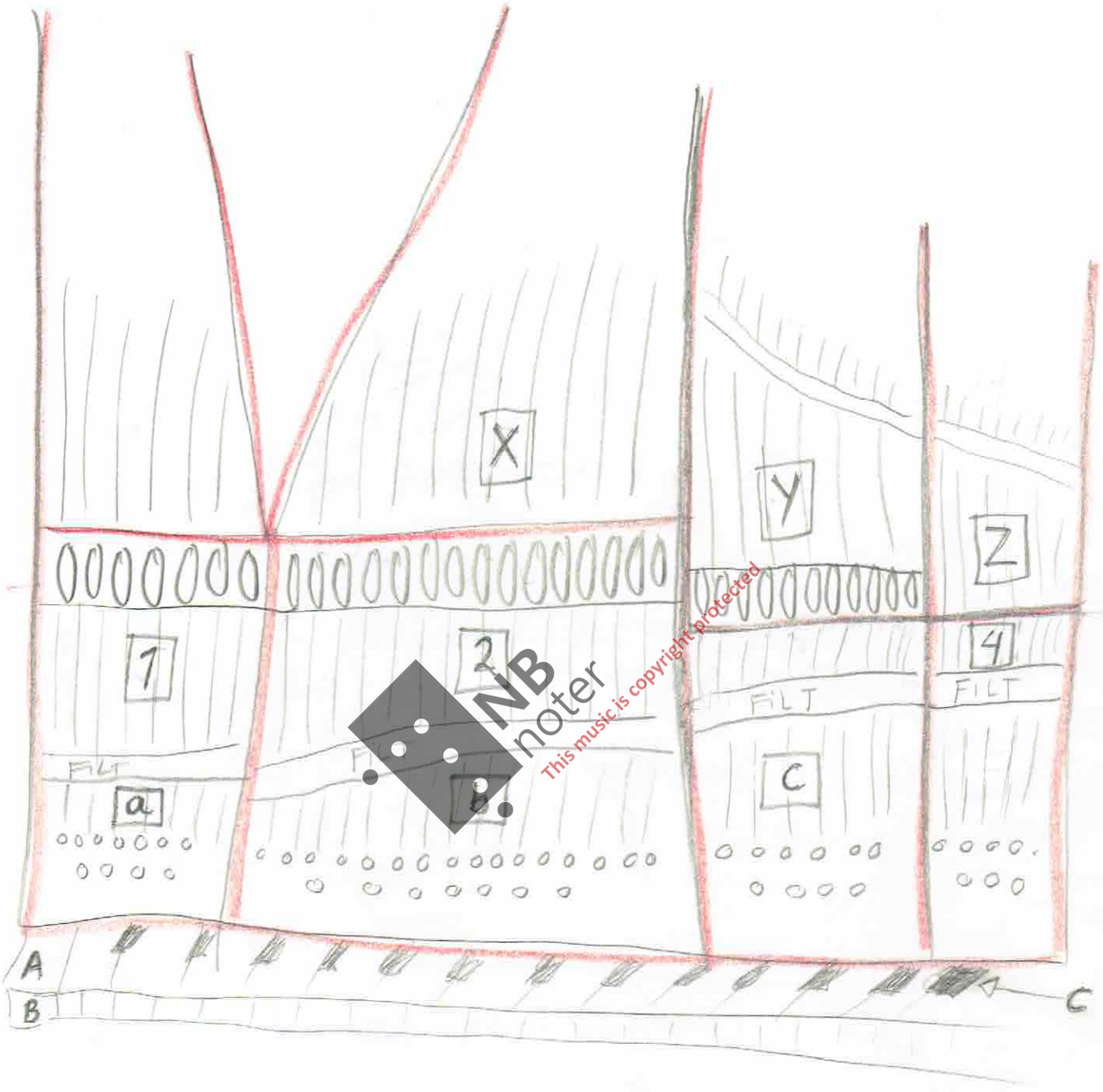
Piano Map



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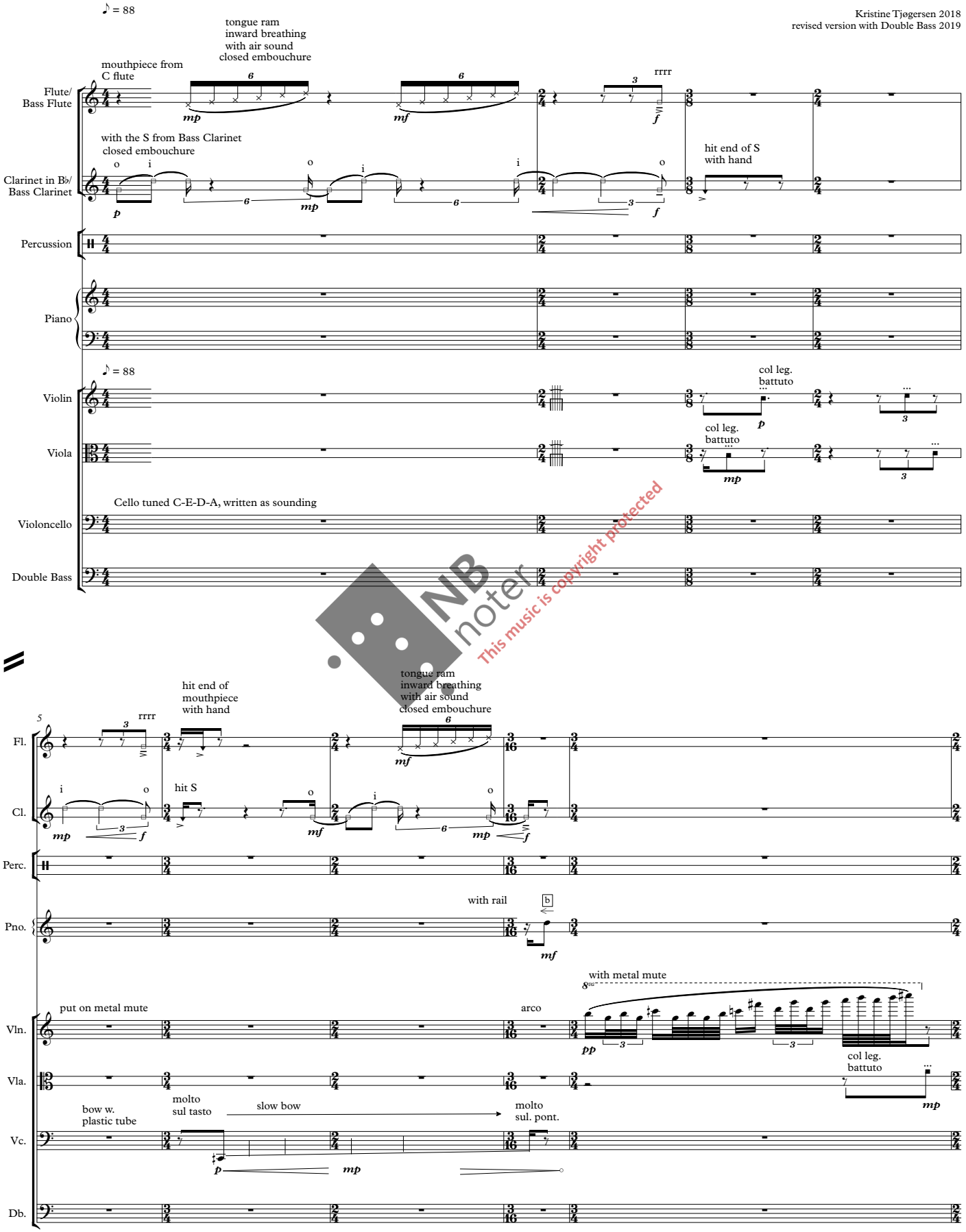
Seafloor Dawn Chorus

for Ensemble Recherche

Kristine Tjøgersen 2018
revised version with Double Bass 2019

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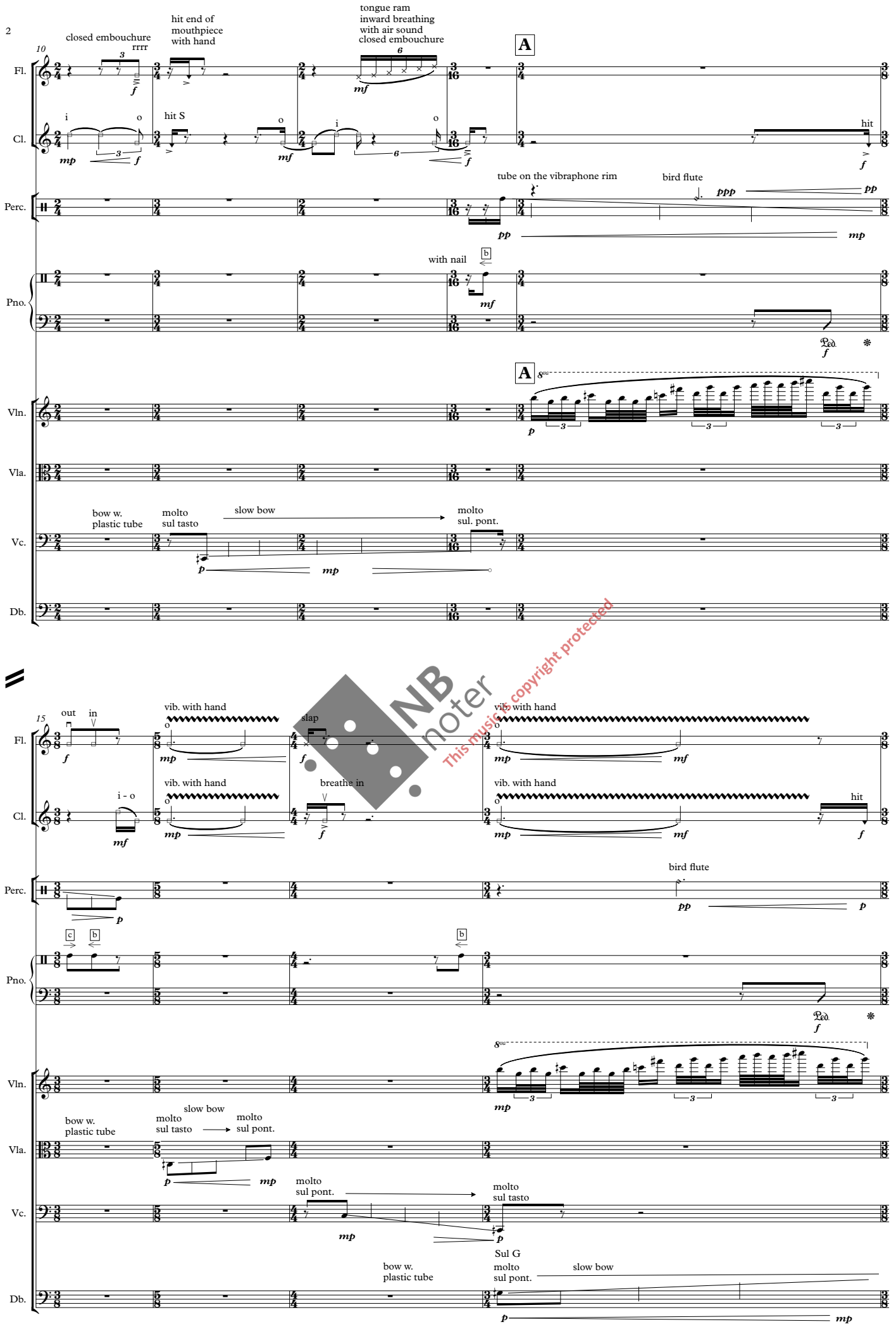
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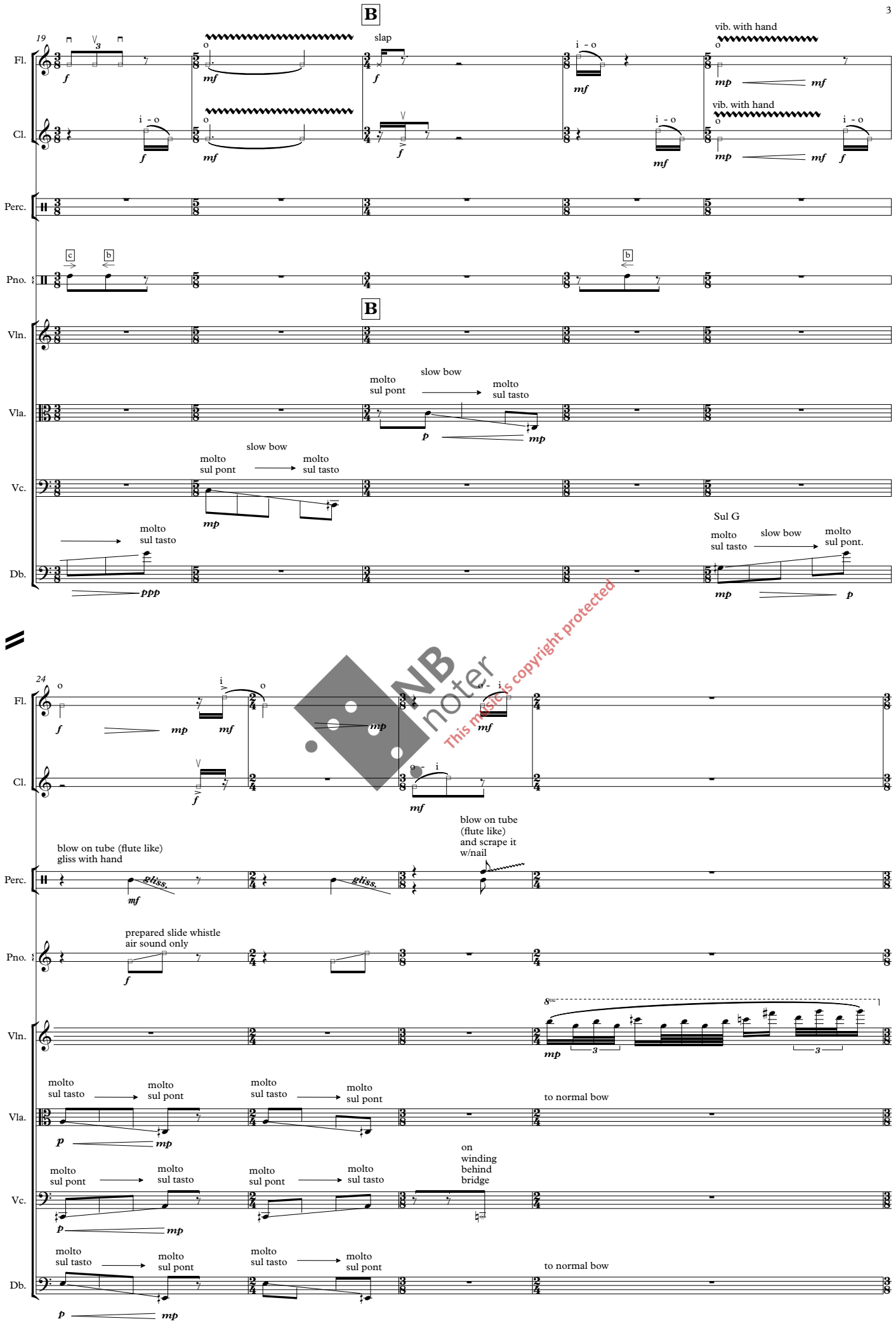

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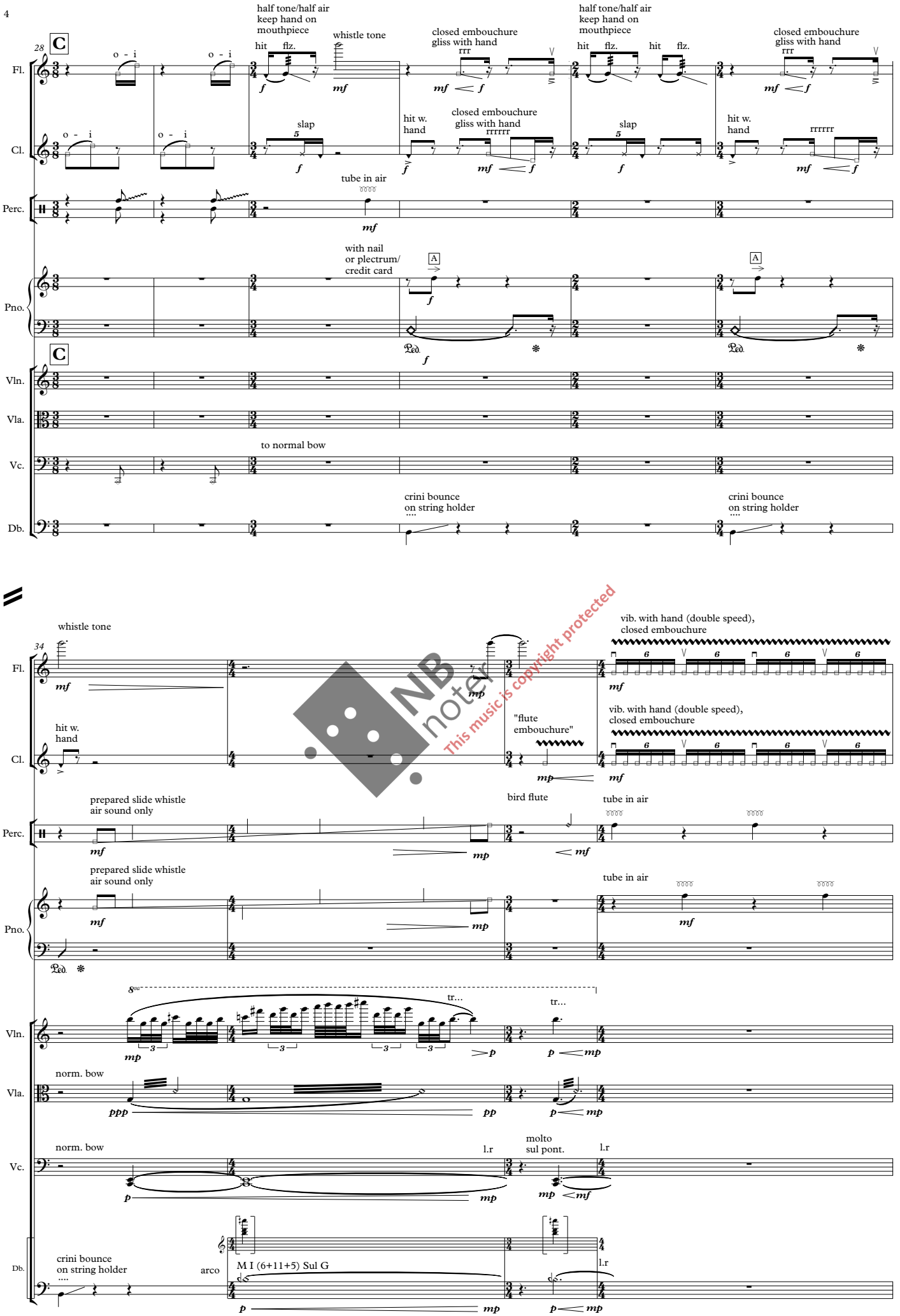

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38

D

Fl.

Cl.

Perc.

drag tube on the vibraphone rim

Pno.

Vln.

Vla.

tube bow

molto sul pont

Vc.

l.r

tube bow

molto sul tasto

molto sul pont

molto sul pont

Db.

M I (6+11+5) Sul G

l.r

to tube bow

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42

Fl.

Cl.

Perc.

tube in air

Pno.

tube in air

Vln.

Vla.

molto sul tasto

to norm. bow

Vc.

molto sul tasto

to norm. bow

Db.

molto sul tasto

molto sul. pont.

to norm. bow

45

Fl.

Cl.

Perc.

Pno.

Vln.

Vla.

Vc.

Db.

to normal C flute

drag tube on the vibraphone rim

tr...

norm. bow

to tube bow

molto sul tasto

l.r.

M I (6+11+5) Sul G

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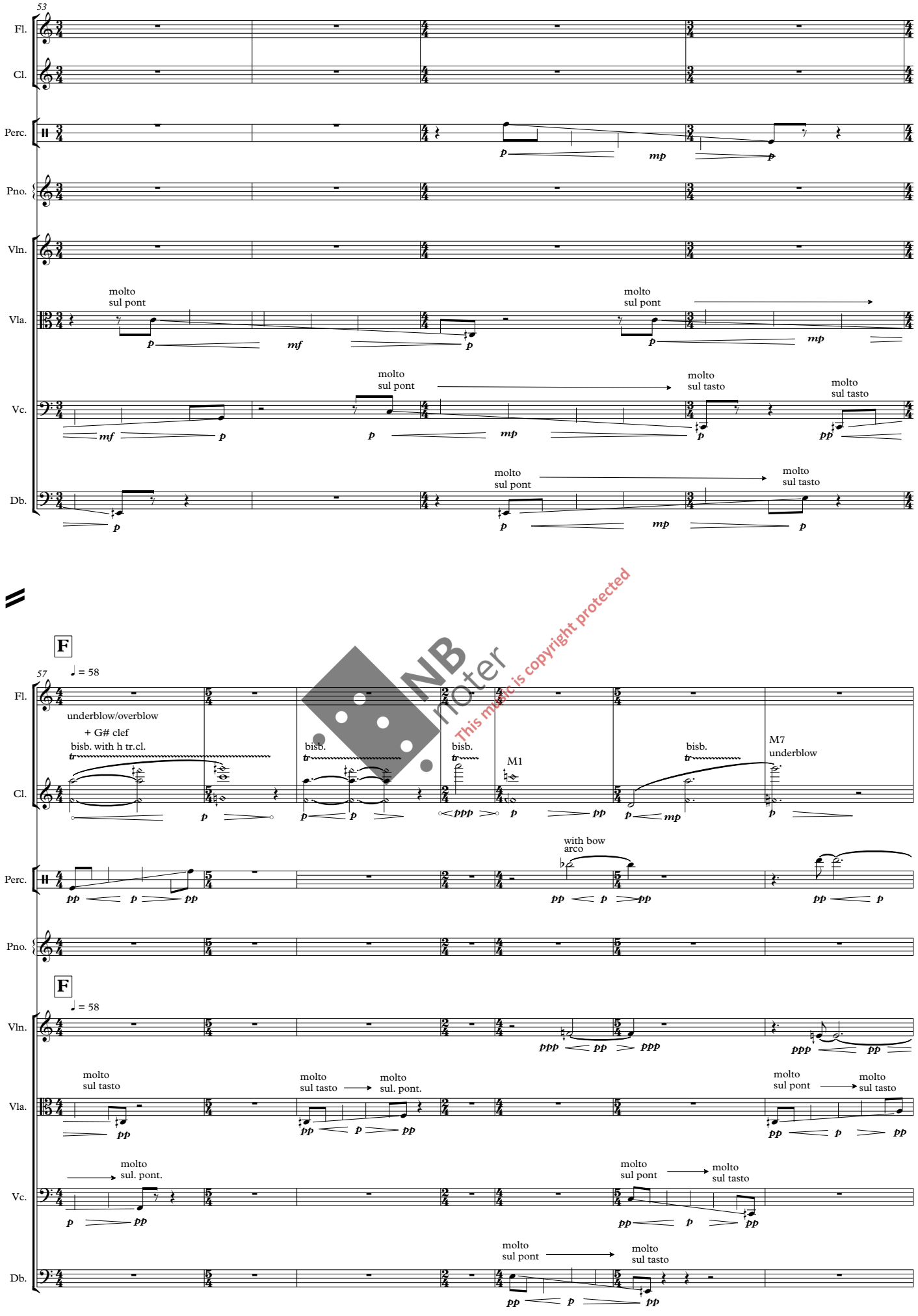
48 **E**

take off metal mute

molto sul pont

molto sul tasto

molto sul pont.



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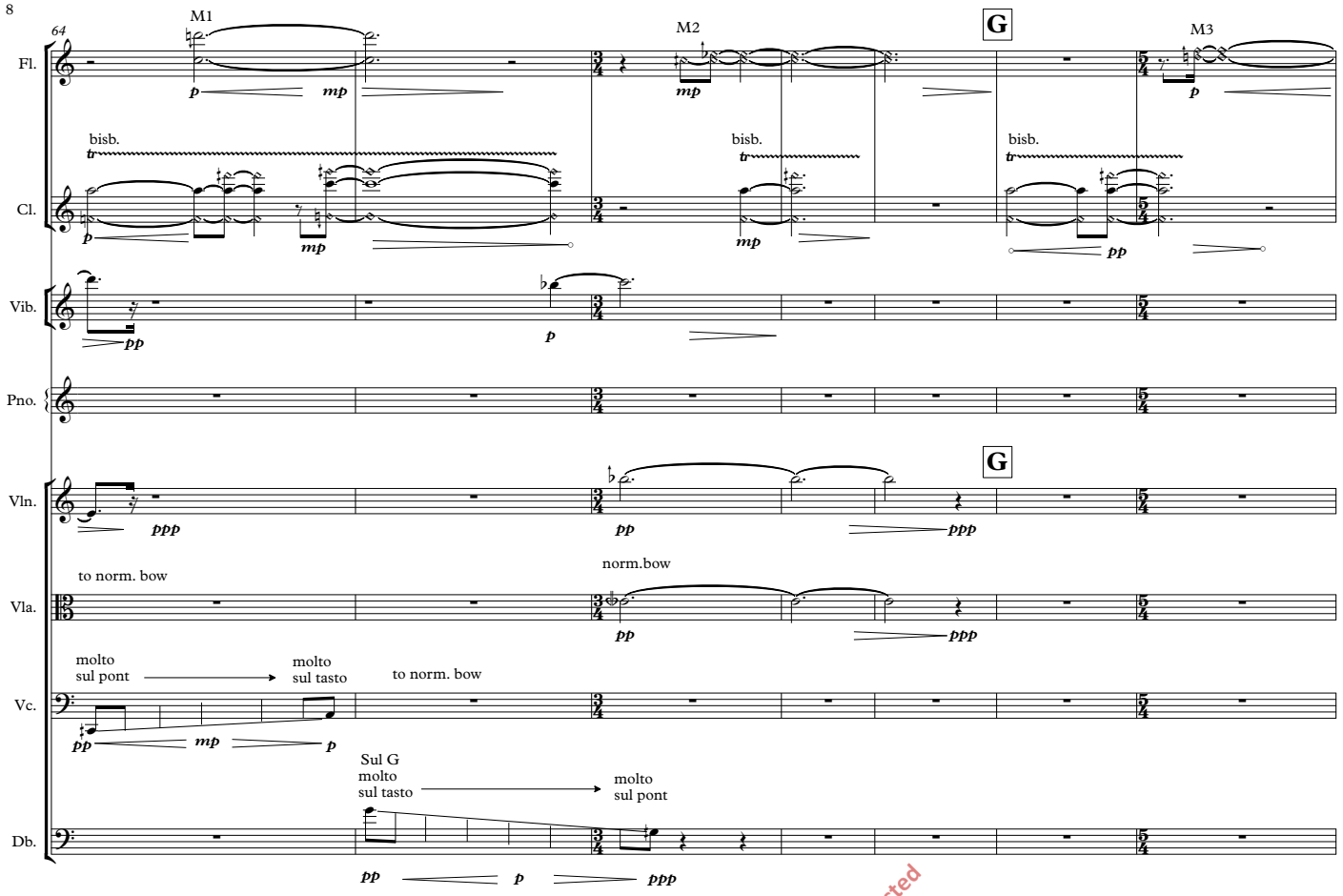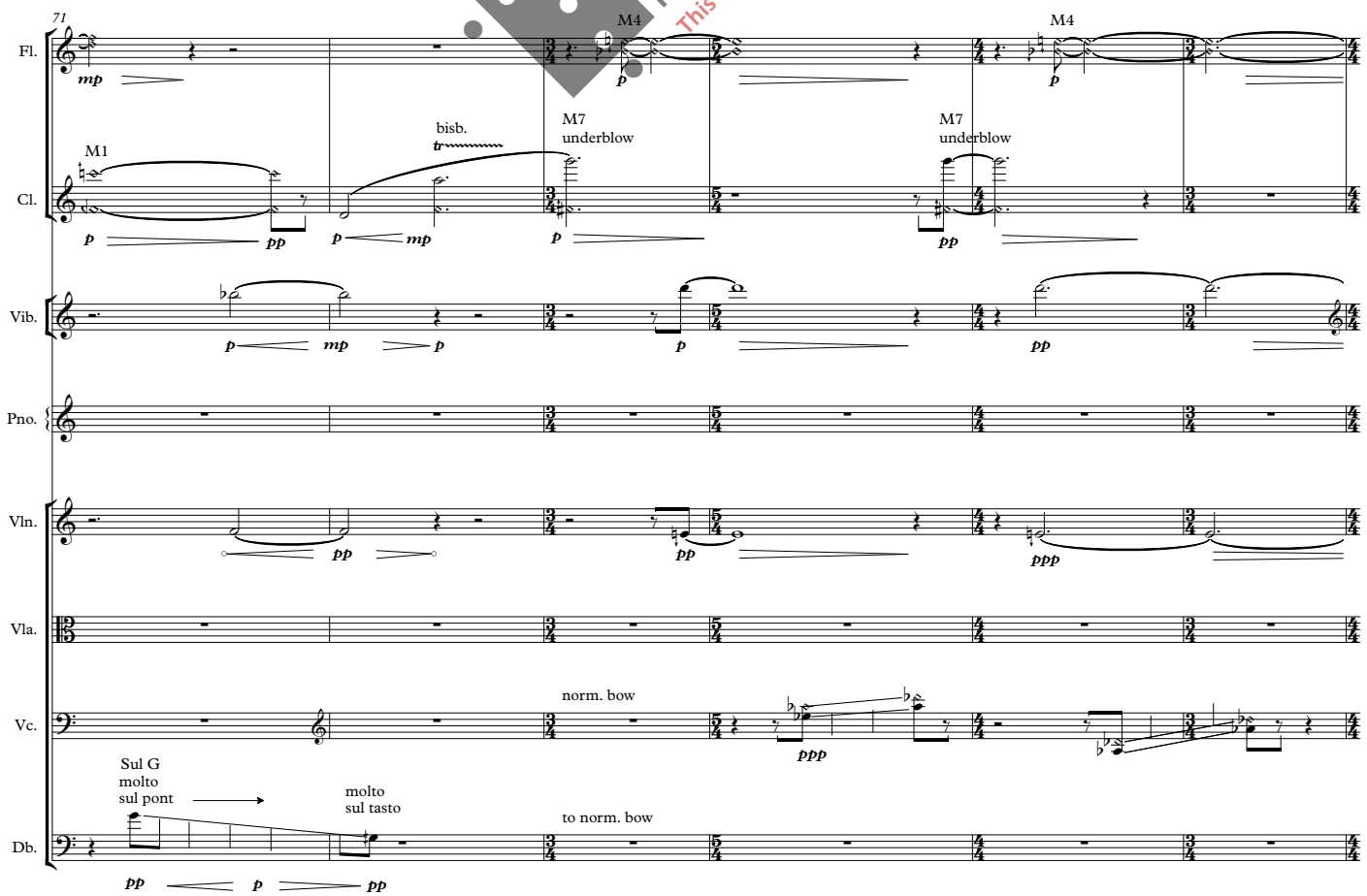

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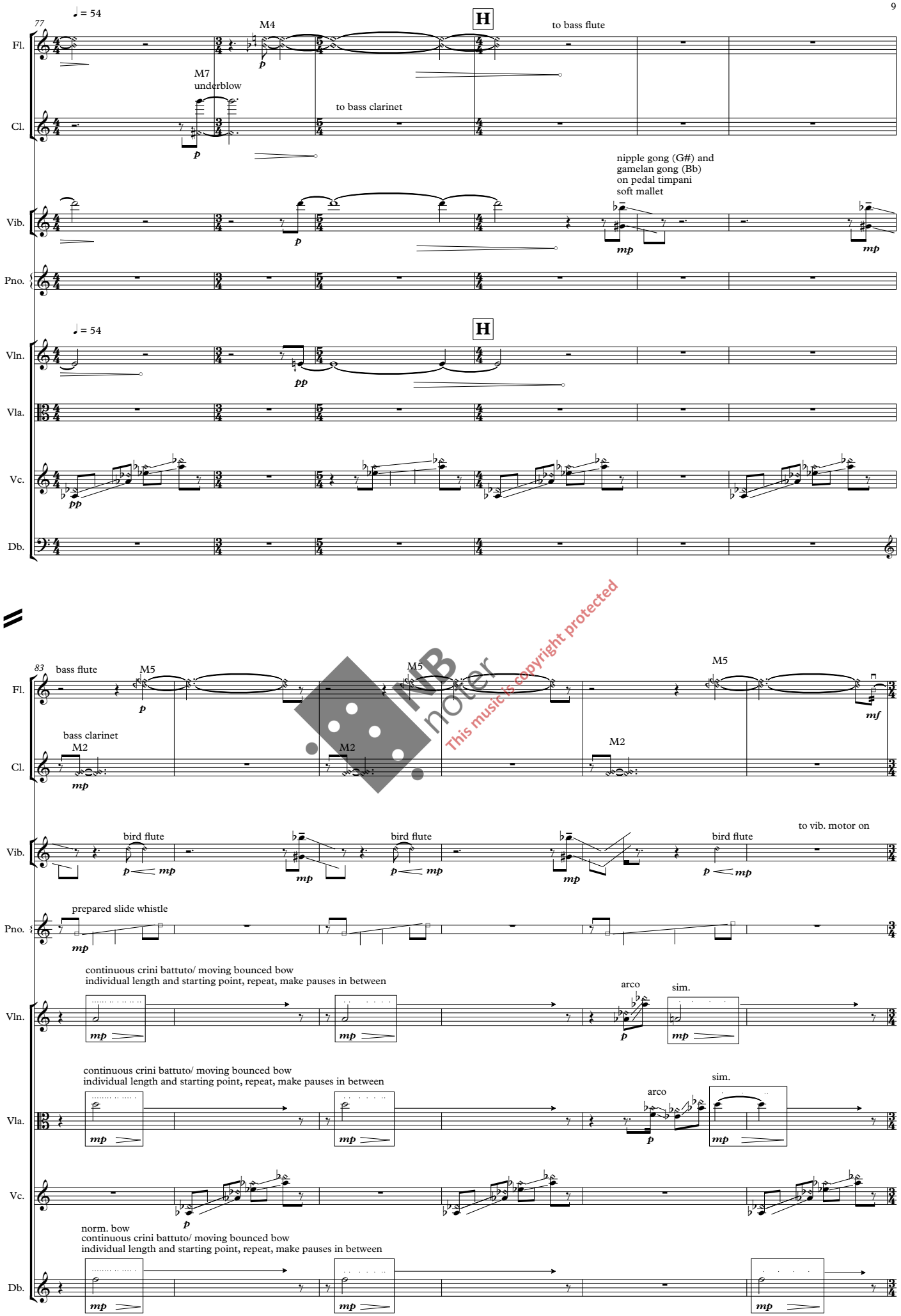

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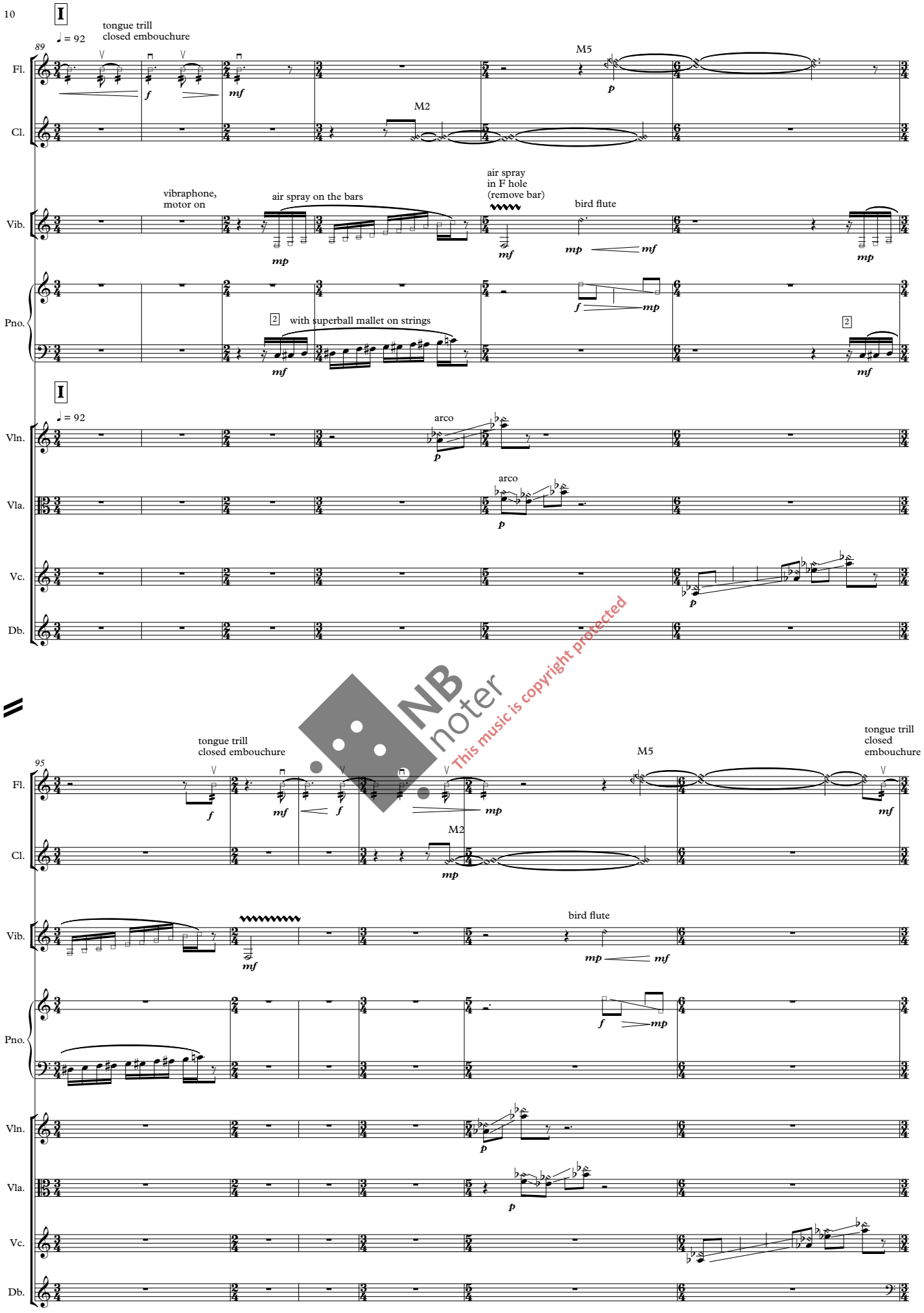
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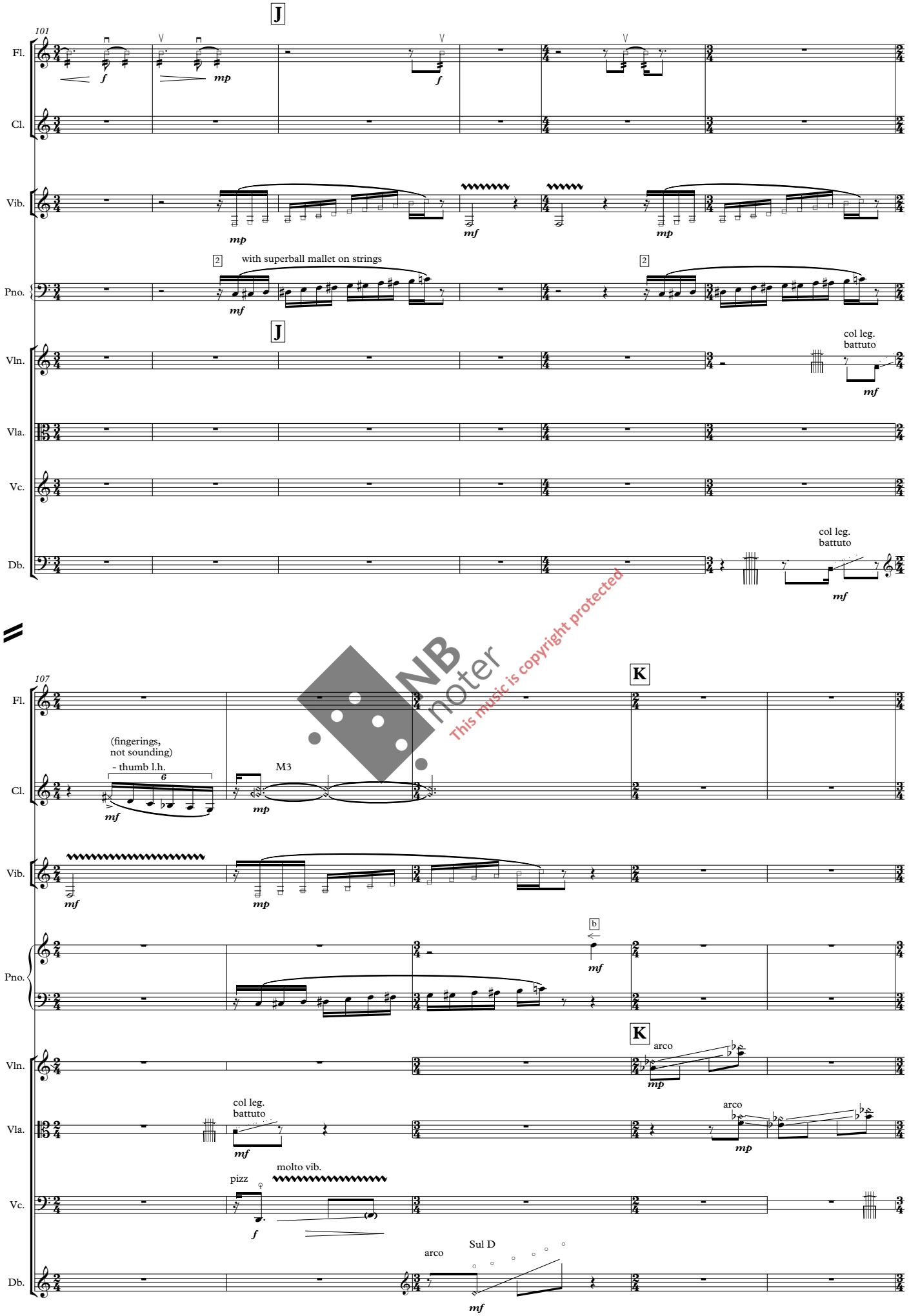

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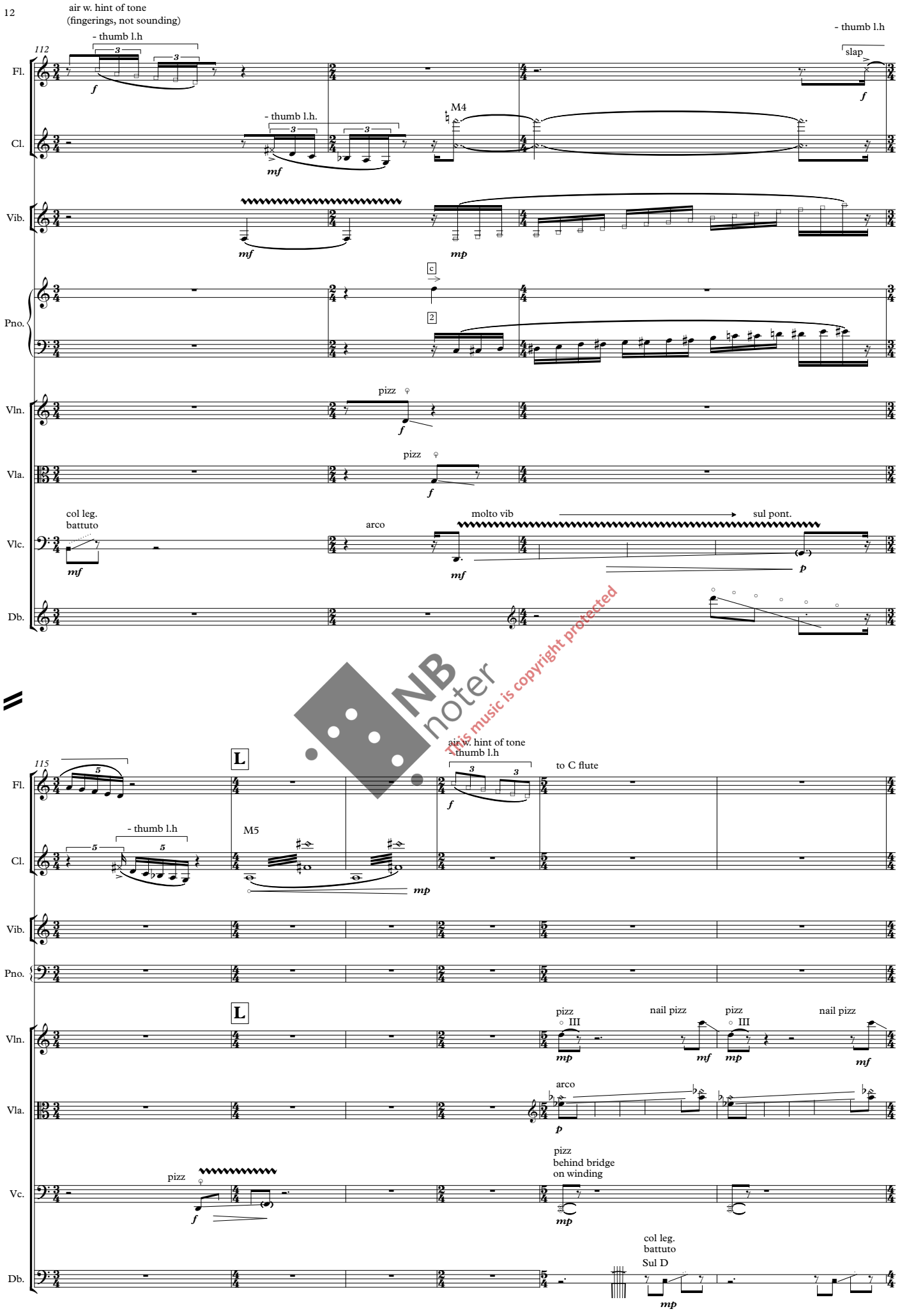
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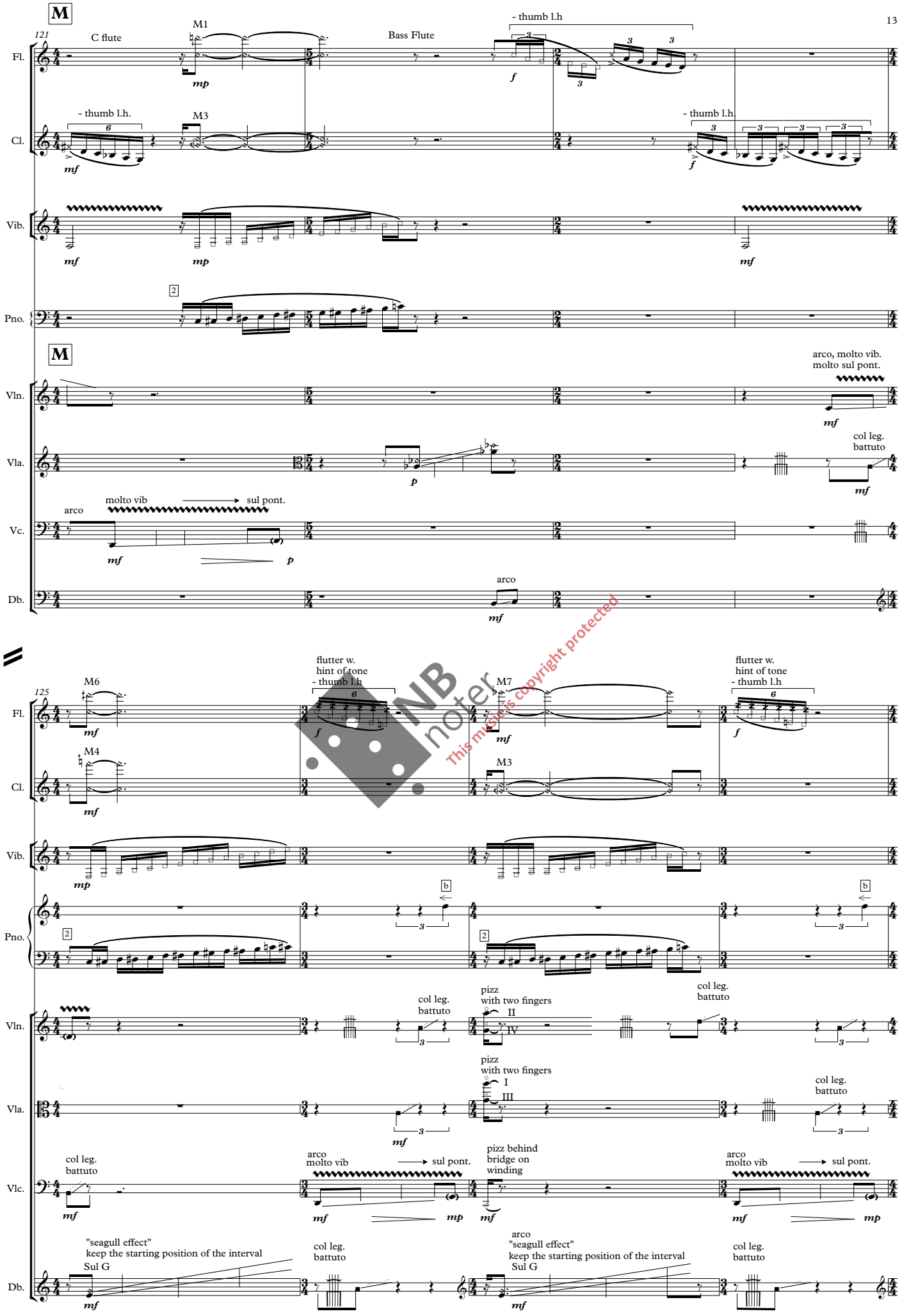

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129

Fl.
M7
mf
flutter
- thumb l.h
6
f
M7
mf
N

Cl.
M3
M3

Vib.

Pno.
2
b
3
2

Vln.
pizz
with two fingers
II
IV
col leg.
battuto
3
pizz
with two fingers
II
IV
N

Vla.
pizz
with two fingers
I
III
col leg.
battuto
3
pizz
with two fingers
I
III
arco
p

Vc.
pizz behind
bridge on
winding
mf
arco
molto vib
sul pont.
mf
mp
pizz behind
bridge on
winding
mf
arco
p

Db.
arco
"seagull effect"
keep the starting position of the interval
Sul G
mf
col leg.
battuto
arco
"seagull effect"
keep the starting position of the interval
Sul G
mf

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133

Fl.
C flute
M1
mf
O
bass flute
slap
f

Cl.
3
3
M3

Vib.
mf
mp

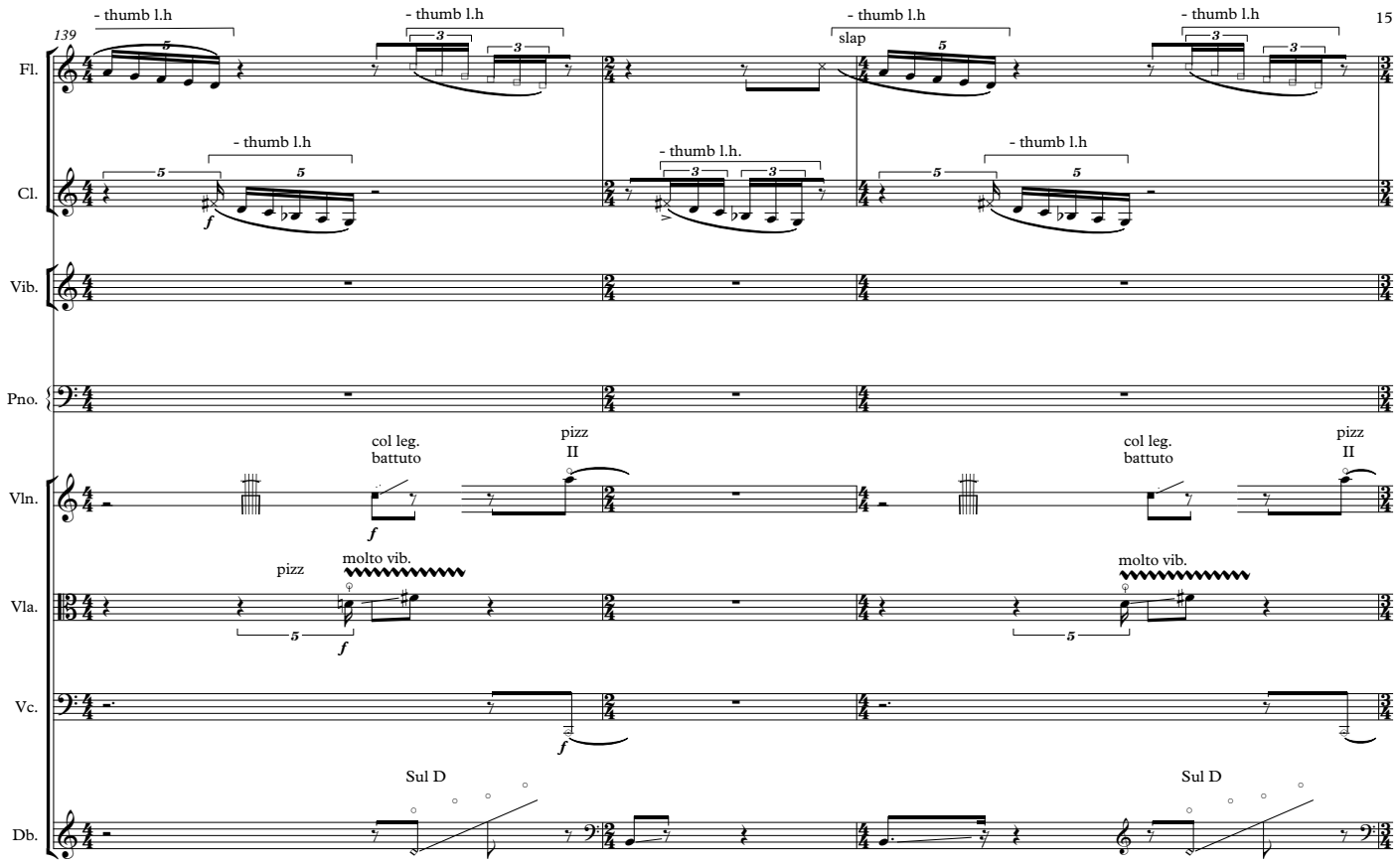
Pno.
b
2
O

Vln.
arco
p
pizz
III
mf
arco
molto sul pont.
pizz
II

Vla.
col leg.
battuto
mf
arco
p

Vc.
pizz
behind bridge
on winding
mf
sim.

Db.
Sul D
"seagull effect"
keep the starting position of the interval
Sul G
mf



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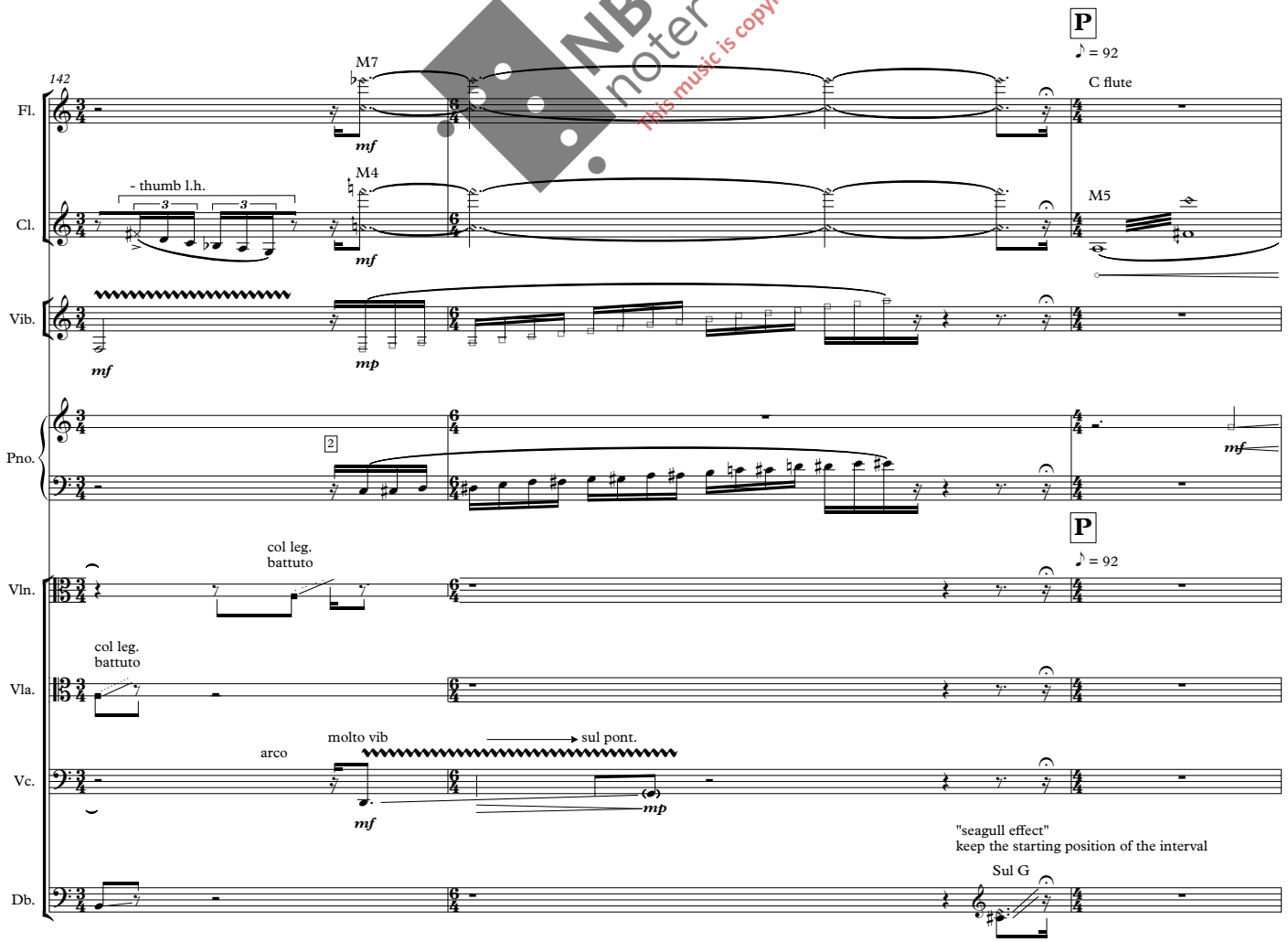

145

Fl.

- thumb l.h

3 3

"f"

♩ = 92

jet whistle

fff

M1

mf

- thumb l.h

3 3

f

Cl.

- thumb l.h.

3 3

f

M3

mf

mp

Vib.

bird flute

p mp

mp

Pno.

b

Vln.

arco

tr.....

mp

3 3 3 3

♩ = 92

col leg.

battuto

mf

Vla.

arco

pp mp

pizz

II

mf

col leg.

battuto

f

Vc.

arco

p

l.r.

mf

pizz

behind bridge

on winding

mf

arco

molto vib

sul pont.

mp

Db.

M I (6+11+5) Sul G

p mp

Sul D

NB noter
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Q

149

Fl.

to bass flute

Cl.

Vib.

Pno.

c

c

Q

Vln.

pizz

III

mf

arco

p

pizz

III

mf

arco

p

Vla.

arco

p

arco

p

Vc.

pizz

behind bridge

on winding

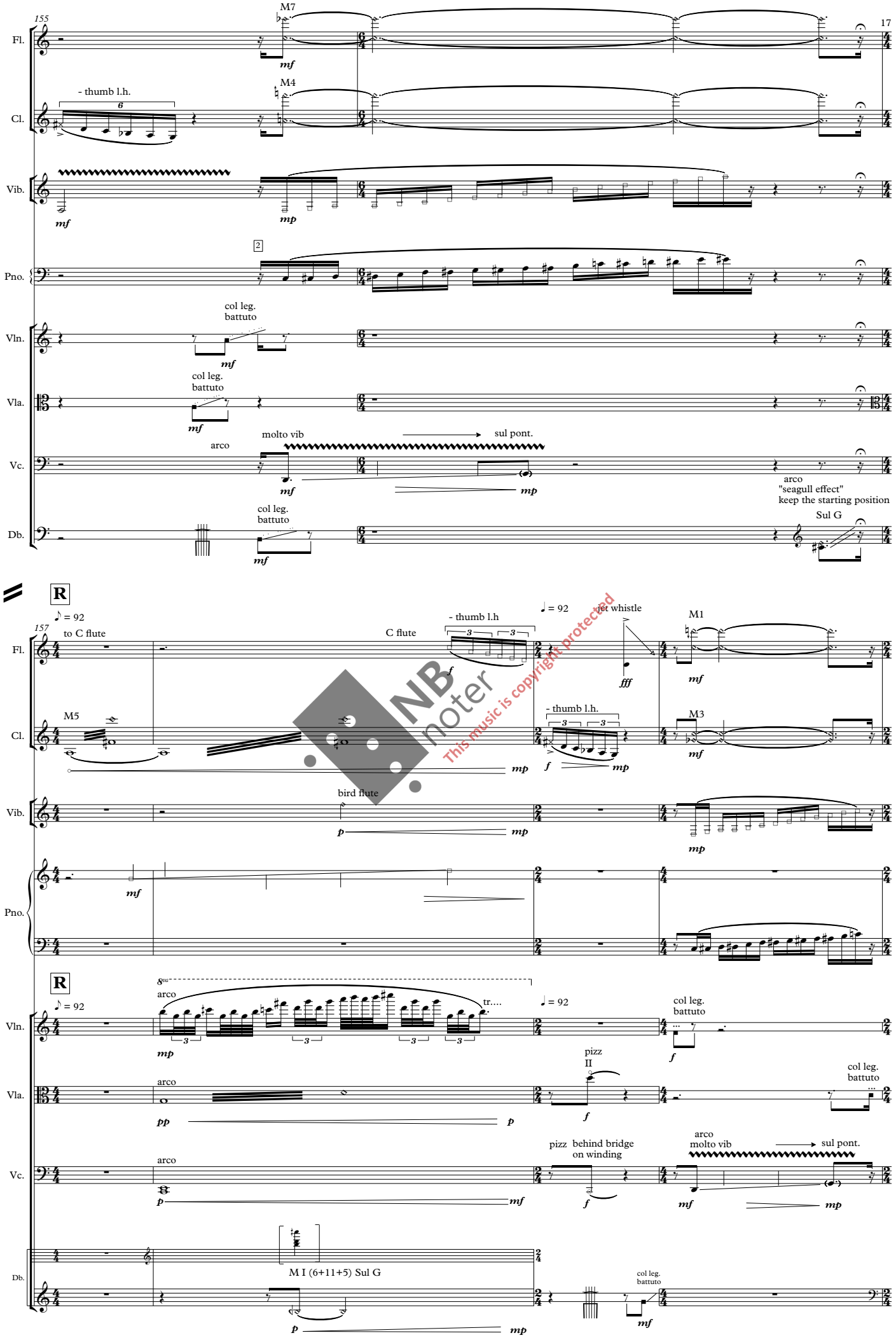
mf

pizz

mf

Db.

Sul D



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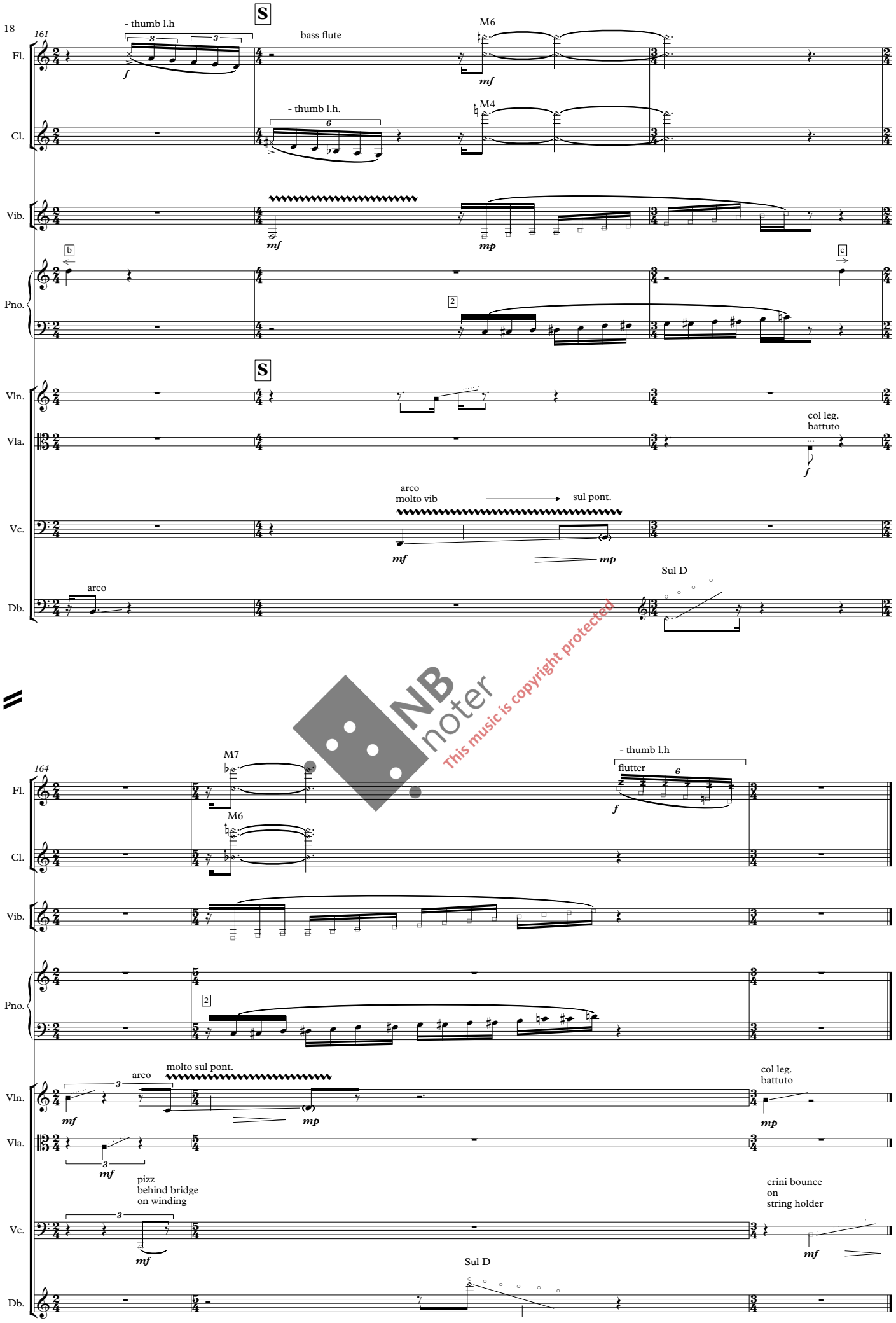

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