

for alto saxophone computer processing and optional string parts

# SAMUEL BURT

## FOUNTAIN RESONANCES

for

alto saxophone

with

computer processing on accompanying CD-ROM

and/or

optional string parts

Violin I Violin II Viola Violoncello I Violoncello II Contrabass

**Composed:** 

Baltimore, MD 2005

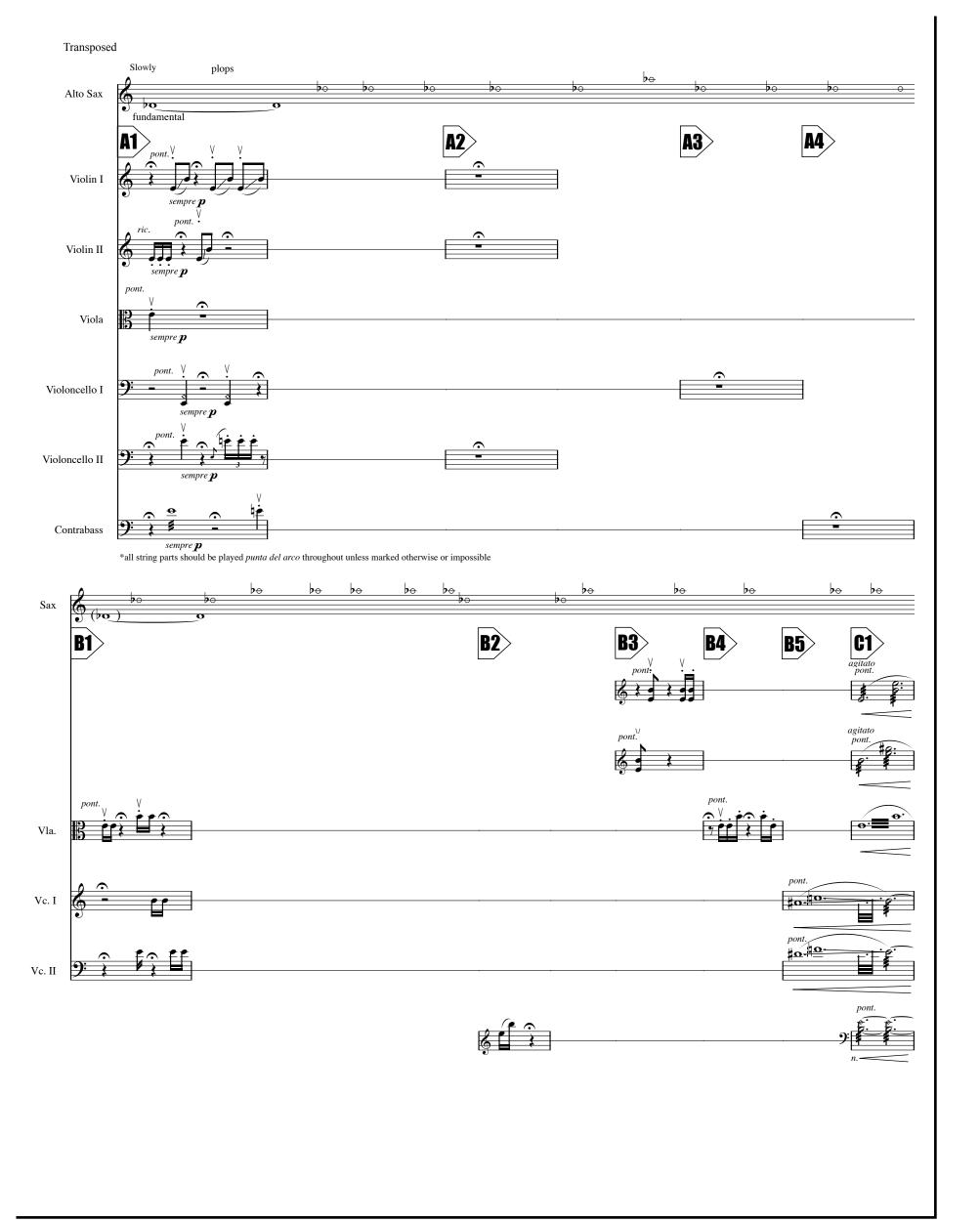
Commissioned by Cory Kasprzyk

**First performance:** 

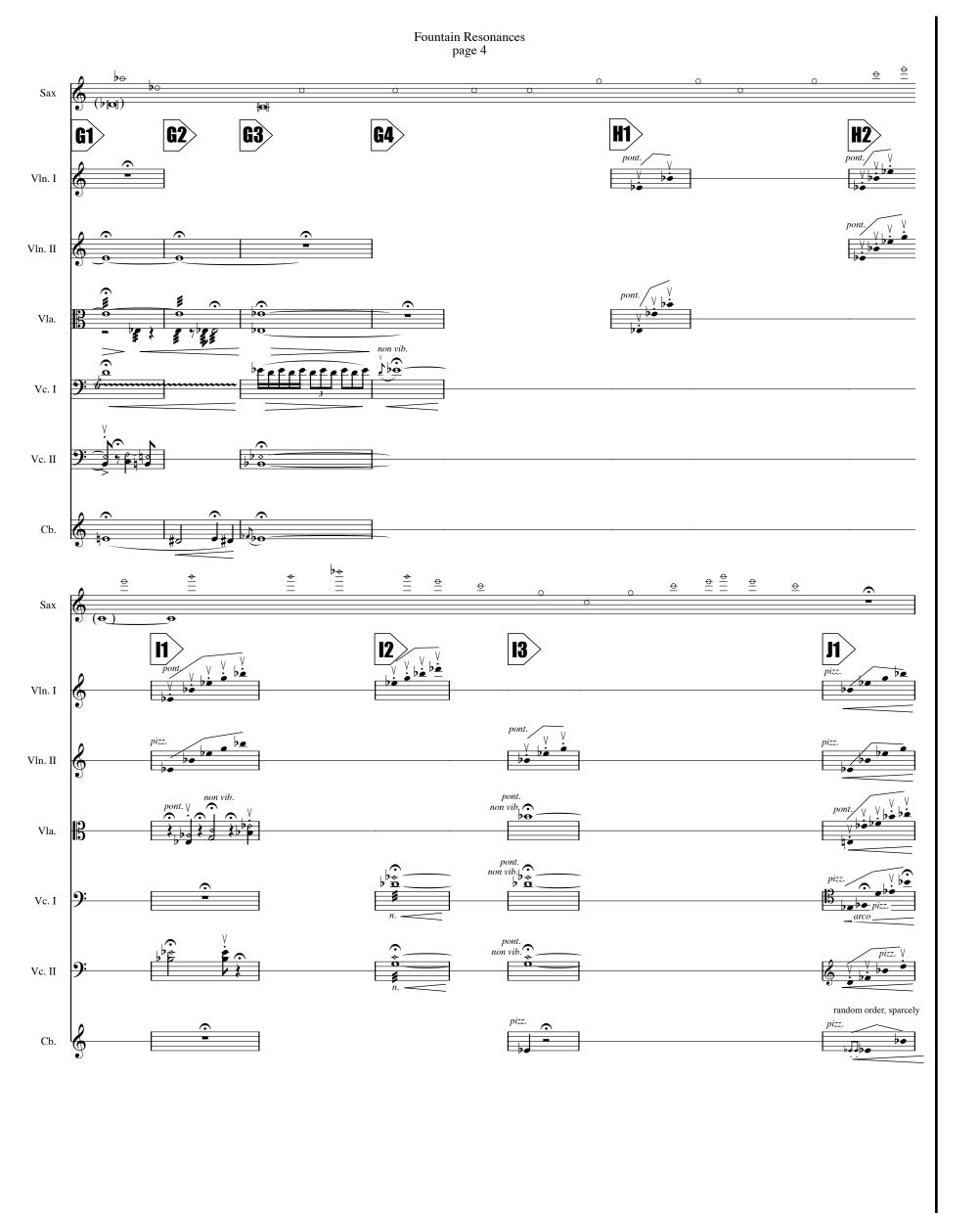
Cory Kasprzyk 30 March 2005 Peabody Conservatory

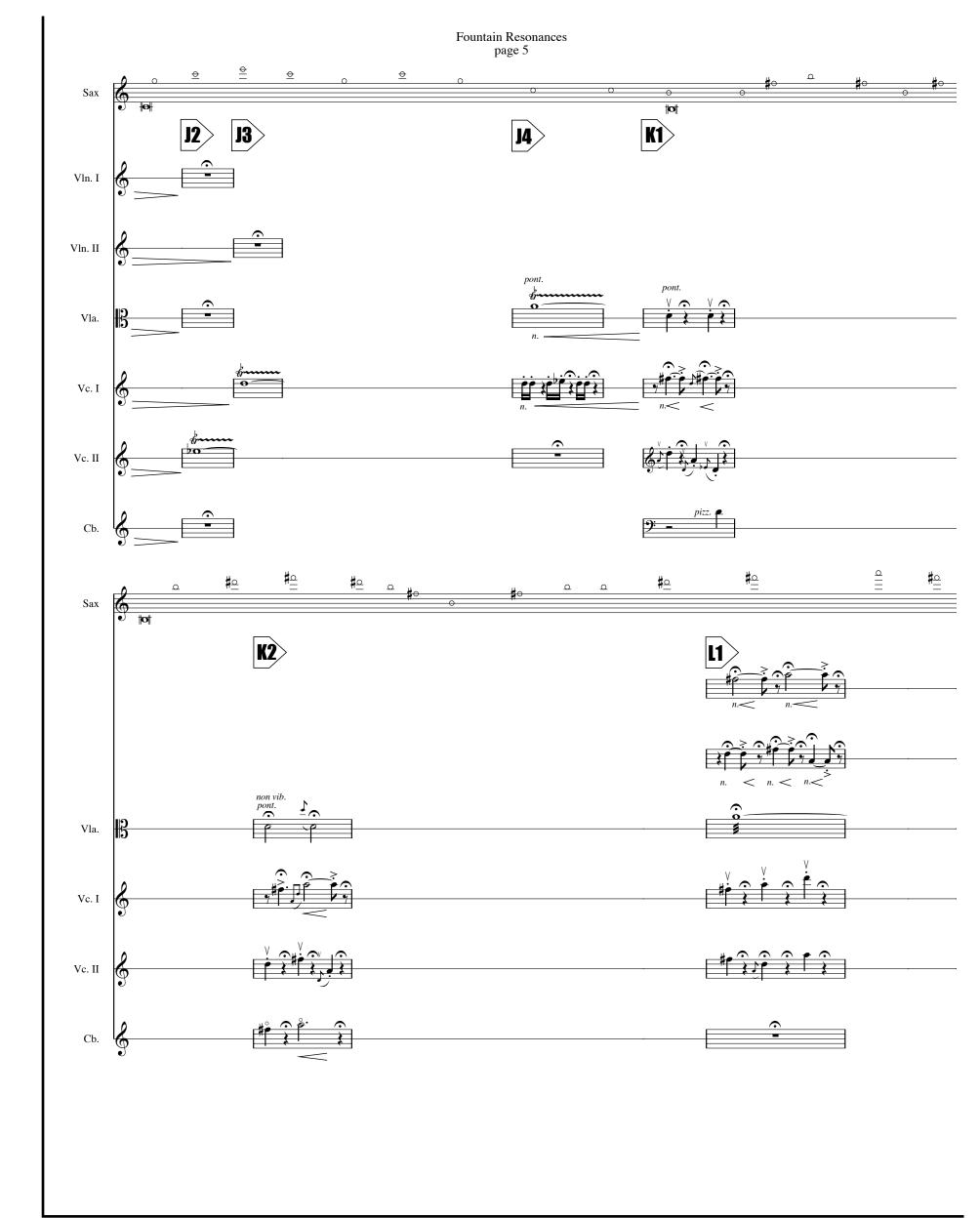
Performance Time: approx. 9-14 minutes

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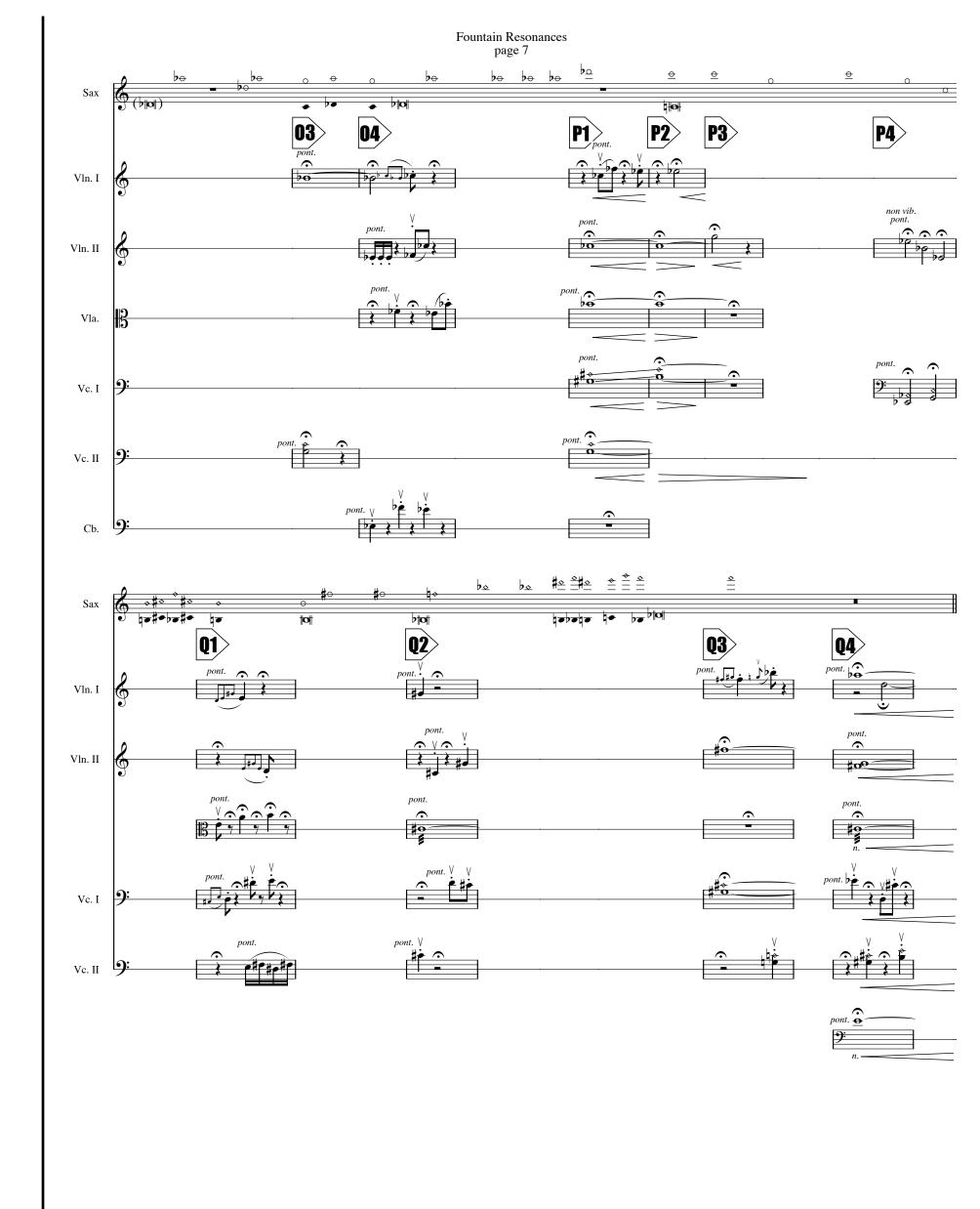


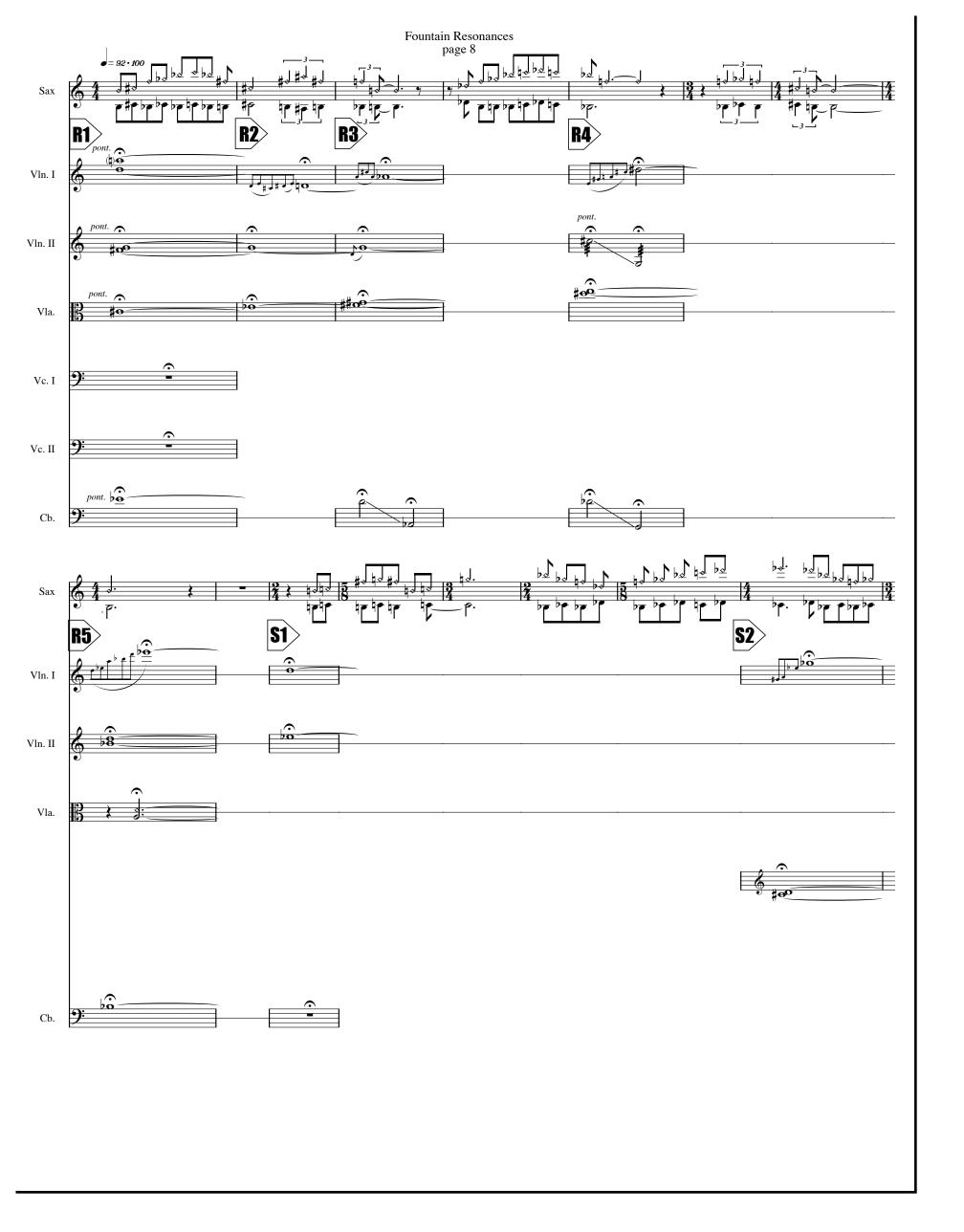


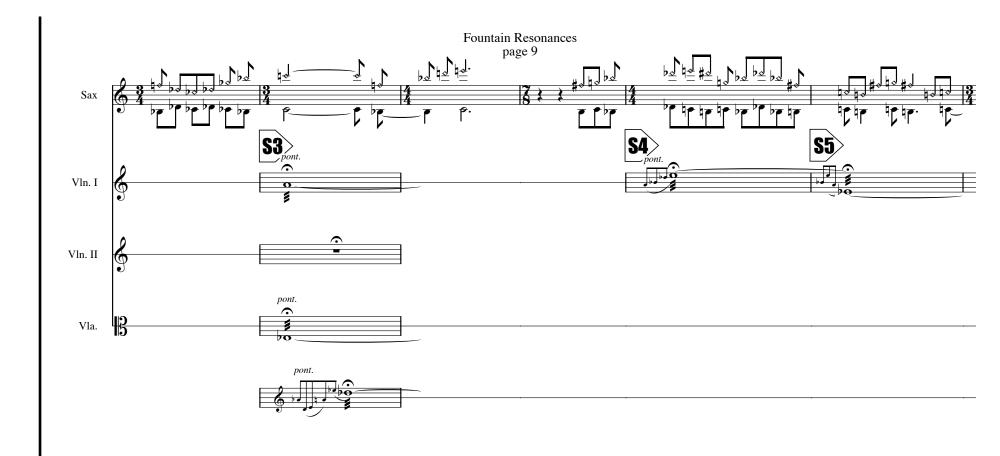


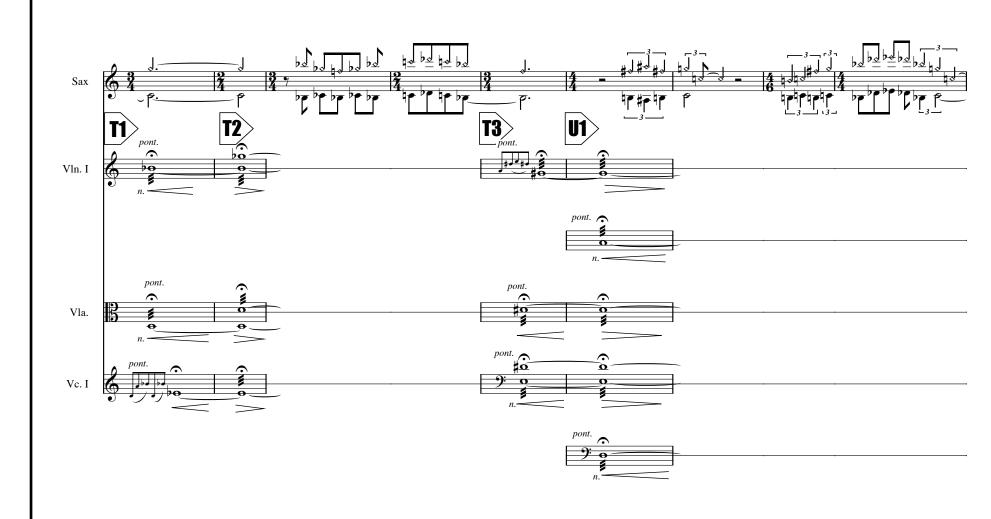


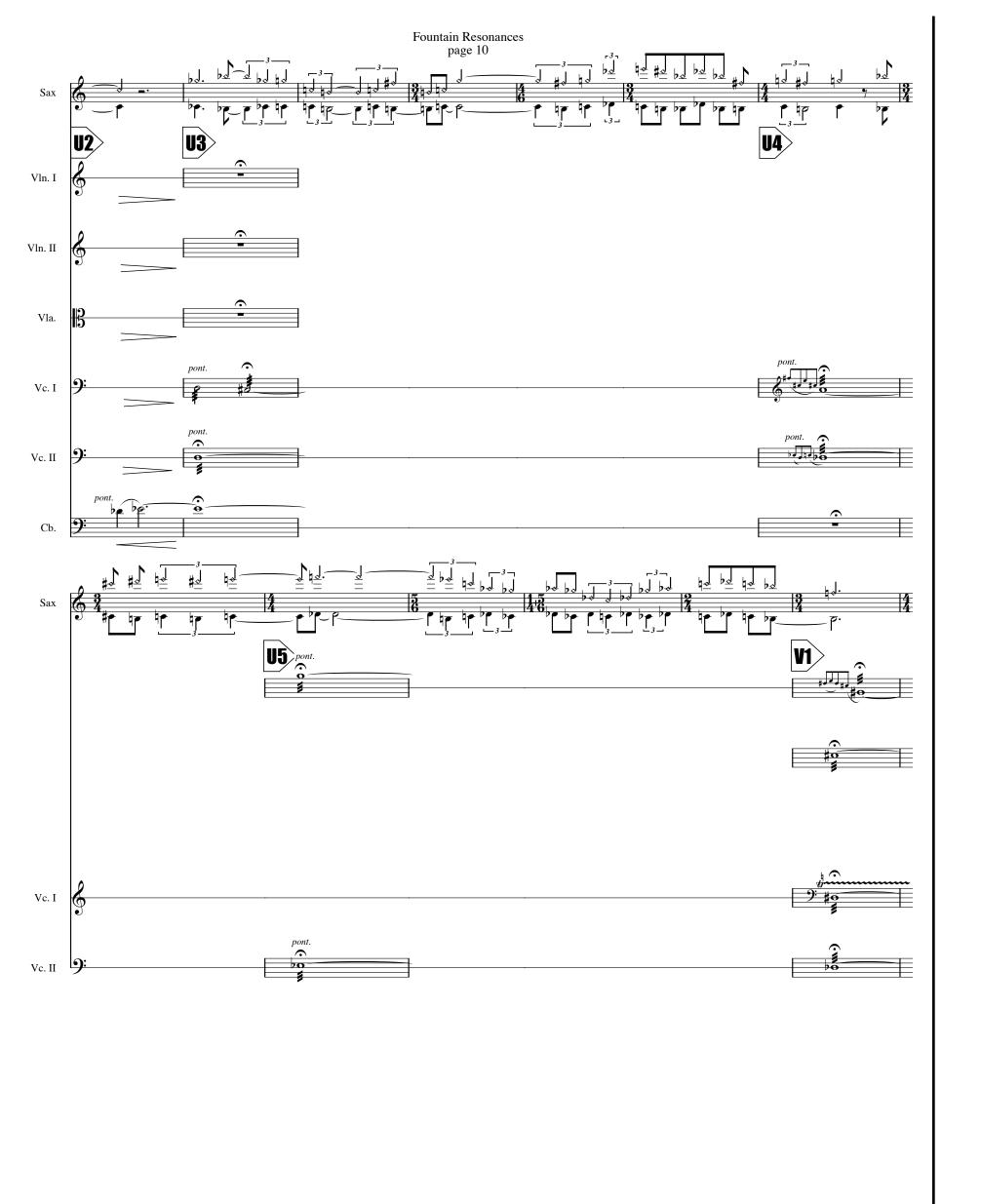


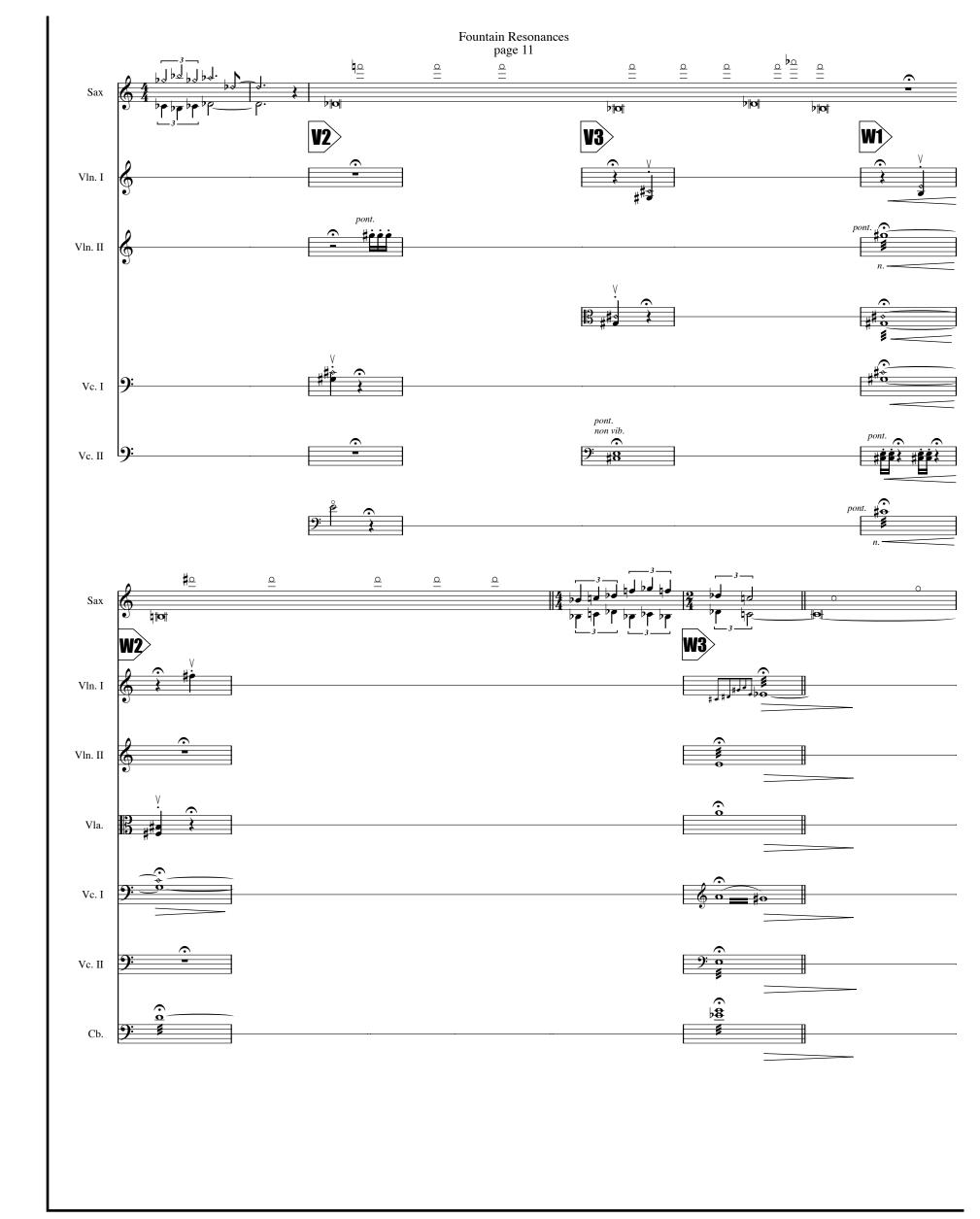


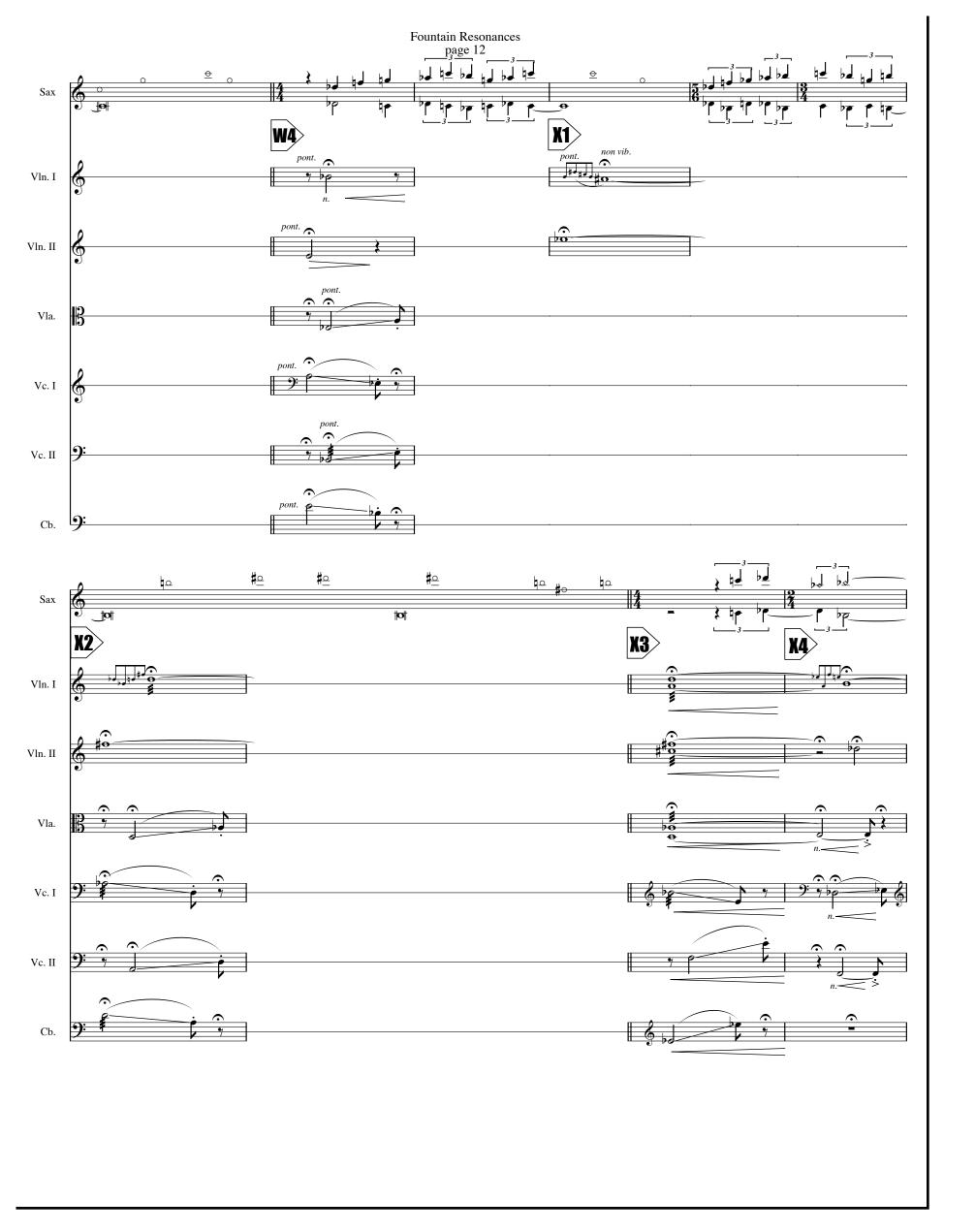


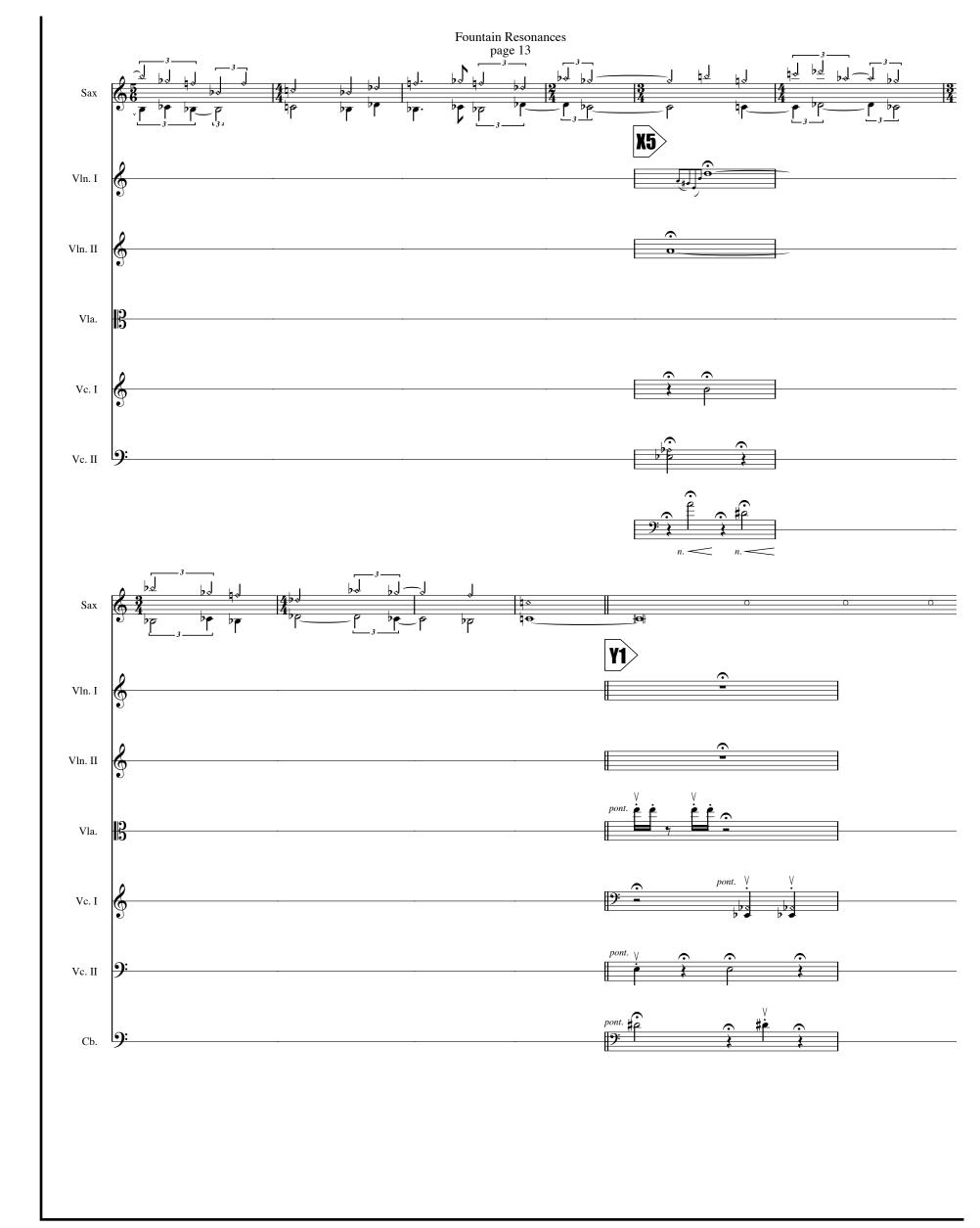


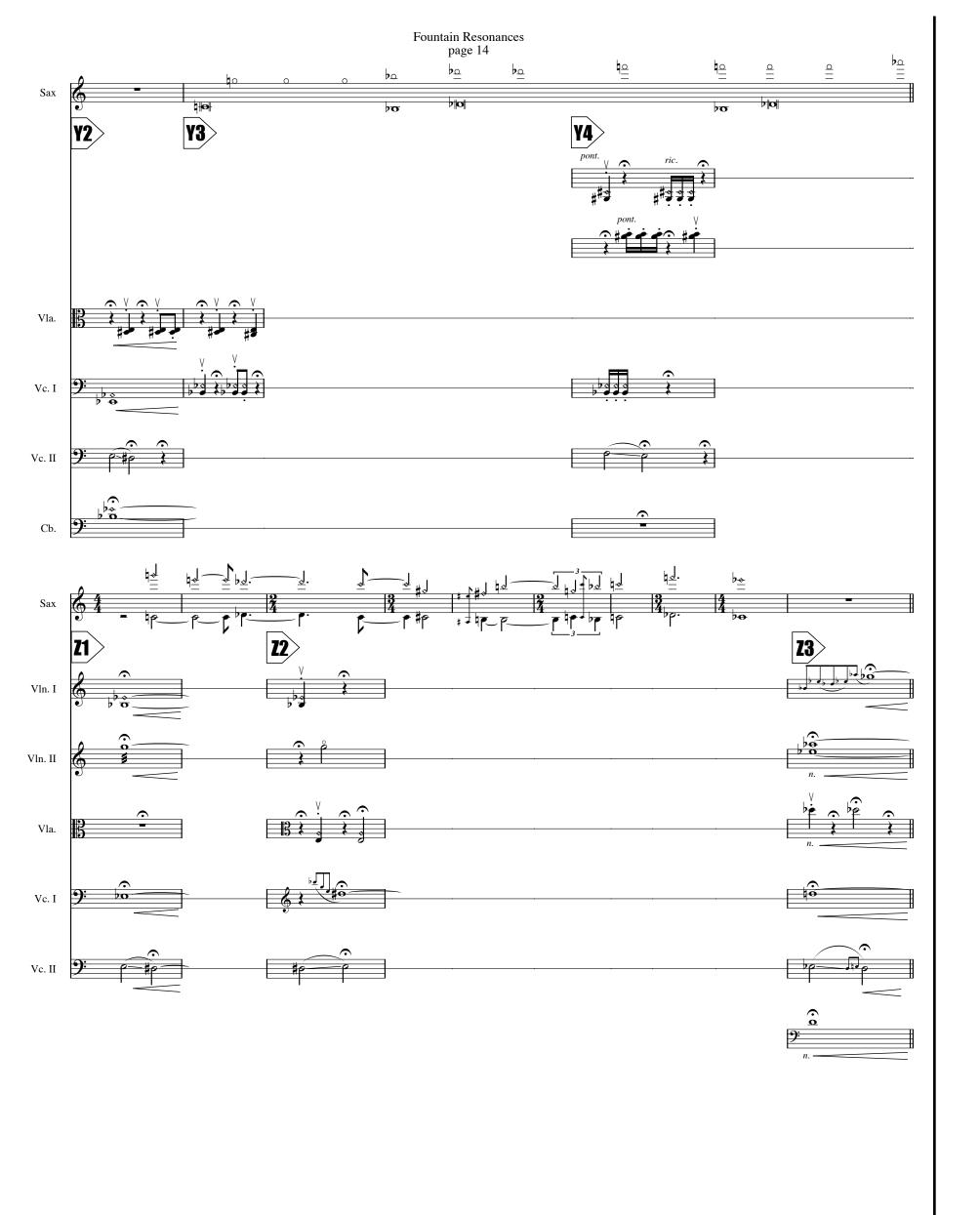


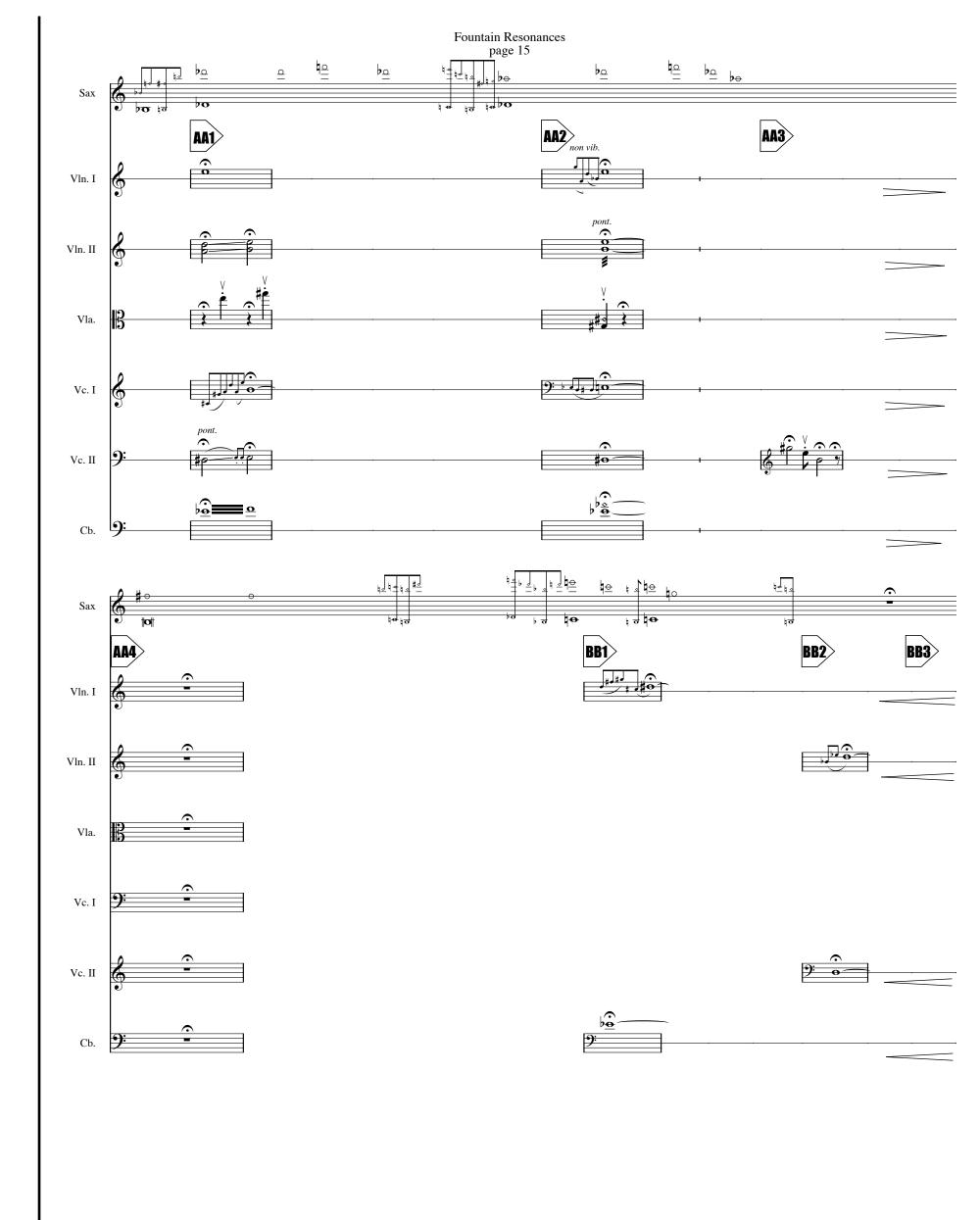


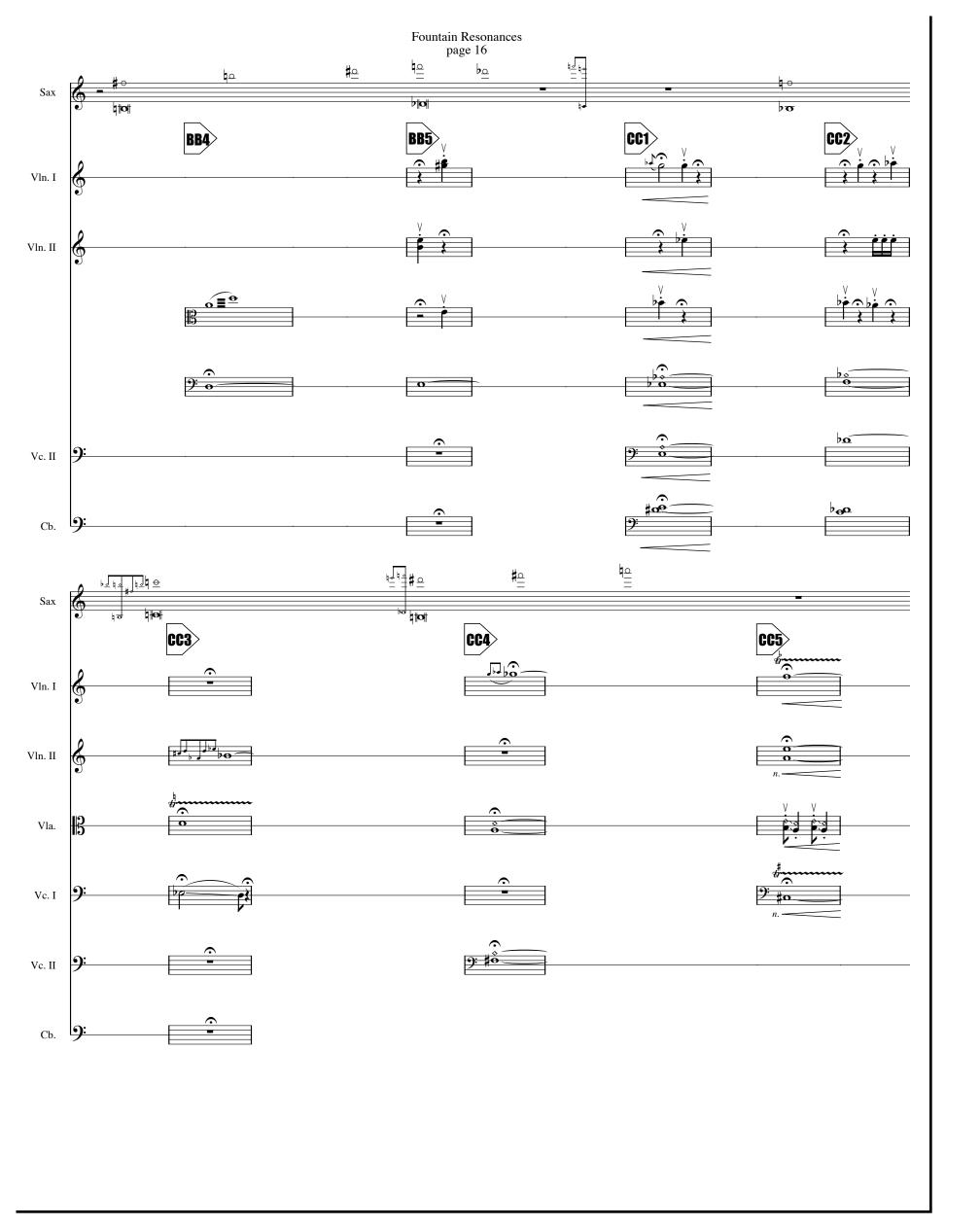


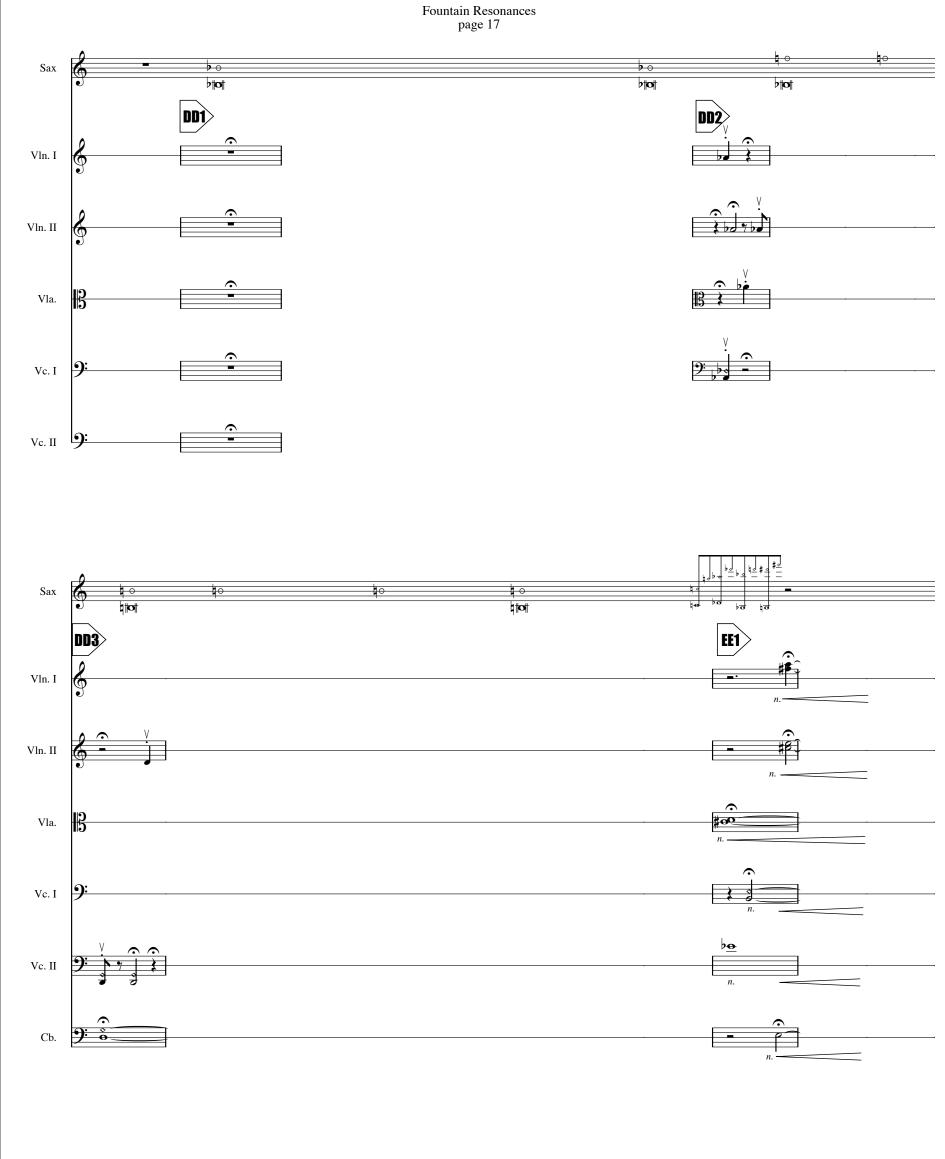


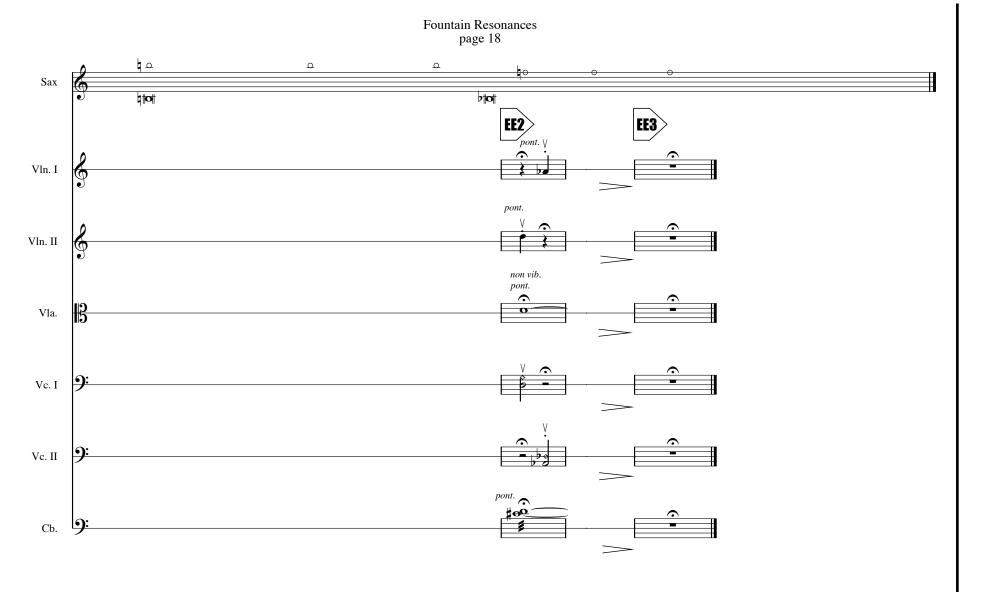












### SAMUEL BURT FOUNTAIN RESONANCES Supplemental Instructions

#### Synchronizing with the Saxophone

detail the techniques the saxophonist must employ. What follows is a brief description so that the conductor will be able to monitor the solo saxophone part as he provides cues to the ensemble. The saxophonist will be reclined and his instrument will most likely be suspended from a device so that as he lays back he can blow saliva upwards into the saxophone. The resulting sound will sound like hissing water in a pipe with resonantly pitched plops that at times will become more like a sustained screech. The pitch of the plops and screeching are a result of the saxophonist changing his embouchure to produce different partials of a fundamental tone. The fundamental is notated either as a breve (double whole note) for free tempo sections or as specific rhythms where the saxophonist has metered material, and the fundamental will always appear as the bottom note in the part. The partials to be played above it appear either as circular noteheads without stems (when sounding as plops) or as diamond noteheads (when played as screeches). The saxophone part should be easy to synchronize with by following the contour of the partials, the change of the fundamentals, and especially the periodic rests.

#### **Cueing System**

The work is not conducted metrically as in traditional music. The conductor's role is to follow the saxophone part and synchronize the string players by means of a series of cues labeled alpha-numerically. Generally, cues increase sequentially from one up to five, resetting to one on major synchronization points (where almost all the string players have a cue together). The cue numbers may not even reach five if one of these synchronization points happens earlier in the sequence of numbers. The cues are labeled with letters to make rehearsals more effective by providing reference points. The purpose of labeling the cues one through five is to allow the conductor to demonstrate digitally--that is manually with the hand (puns intended)--with his fingers the five cues by counting off silently by raising his hand with a number of fingers extended to indicate the present cue. An alternative and more effective method may be devised including a set of cue cards with each alpha-numeric cue clearly labeled in large font for the conductor to raise at the beginning of each indicated cue. Also, a monitor or small projection screen may be set up in clear view of the string players so that the conductor or someone from the ensemble may trigger a slide show of alpha-numeric cue indications.

#### **Interpreting Cues**

The supplemental instructions in the saxophone part describe in detail the techniques the saxophonist must employ. What follows is a brief description so that the conductor will be able to monitor the solo saxophone part as he provides cues to the ensemble. The saxophonist will be reclined and his instrument will most likely be

#### **Bracketed Noteheads**

If there are bracketed noteheads without stems in a measure, they are to be played repeatedly in a random order as a moderately sparse texture. At softer dynamics, they should be played more sparsely; at louder dynamics, they should occur more frequently.

#### Fermata with a Tie

Any note with a fermata that is tied over the barline is to be held to the next cue without repeating any of the preceding notes in the measure. All the previous notes should be thought of as an ornamented attack that initializes the cue.

#### **Side-by-Side Cues**

Even when measures are side-by-side, they still count as individual cues and should each be treated separately with the first being sustained or repeated until the second is started.

#### **Style of Playing**

Several markings appear at the beginning of the score. "\*all string parts should be played *punta del arco* throughout unless marked otherwise or impossible" and "*sempre piano*." The strings are to be light and delicate, played as much as possible with at the tip of the bow. They should be rather soft dynamically except at moments where there is a surge of energy. One of the major formal roles of these outbursts is to cover rests in the saxophone part, especially at page turns. Some dynamic hairpins may appear just before or after a cue. In these cases, watch the conductor to see the rate and amount of dynamic change.

#### **Computer Component**

The accompanying CD-ROM contains software to be installed on a computer for the purpose of processing the saxophone. It was tested on a PowerBook 1.33 GHz G4 with 512 MB of RAM and an iBook 1 GHz G4 with 256 MB of RAM. The CD-ROM contains:

#### fountainresonances/

My program for processing the saxphone to be run in Pure Data

#### Pd-0.38-3.app

Pure Data, open source audio software development environment created by Miller Puckette and developed by many others

#### org.puredata.pd.plist

A preference file to enable necessary externals for my software

#### **README.rtf**

A description of the software installation and operation.

#### **Equipment Needed**

Computer (advisably with 1 GHz processor and 256 MB RAM)
Accompanying CD-ROM
One microphone with pre-amp
Two loudspeakers with an amplifier
A MIDI or software pedal

#### **Saxophone Instructions**

