

# *Twenty Twenty*

*Anders Lind 2017*

# Twenty Twenty

MUSIC FOR CHAMBER ENSEMBLE  
AND ORCHESTRA 2020 (MOBILE PHONE ORCHESTRA)

## CHAMBER ENSEMBLE:

FLUTE  
CLARINET IN B<sub>b</sub>

### PERCUSSION

- CYMBAL 1. (2 stacked cymbals)
- CYMBAL 2.
- RIDE CYMBAL
- CROTALES (C)
- 2 COWBELLS (*low tuned*)
- 2 SPRINGS (*large truck springs*)
- VIBAPHONE

### PIANO

VIOLIN  
VIOLA  
VIOLONCELLO

## ORCHESTRA 2020:

20-200 PEOPLE REGARDLESS THEIR MUSICAL  
BACKGROUND WITH MOBILE PHONES

## TECHNICAL REQUIREMENTS: (FROM CONCERT HALL)

- 2-4 TV MONITORS (ON STAGE)
- WIFI-CONNECTION

DURATION: 10:00

SCORE IN C

# Twenty Twenty

## PERFORMANCE NOTES:

*The Orchestra 2020 should for best performance consist of 20-200 people, divided in six individual parts. No musical background is needed for the performers, but they all need a mobile phone. They are performing with their mobile phones and a specially designed webapplication, which is found at [www.orchestra2020.com](http://www.orchestra2020.com). (see figure 1.) The Orchestra 2020 is conducted by an animated notation system, where simple animated graphics are instructing how to perform during the performance. The performance instructions with the animated notation are shown on 1-2 TV-monitors, which should be placed visible for the performers on stage.*

*60 Minutes of rehearsal with Orchestra 2020 is needed for the performance.*



FIGURE 1. The Orchestra 2020 webapplication.

*The Chamber Ensemble are conducted by an electronic conductor (see figure 2.), which should be displayed on 1-2 TV-monitor placed so everybody could see it (preferably at the conductor stand). The visual output of the electronic conductor is counting the bar numbers and displaying the current tempo with animated pulsating graphics.*



FIGURE 2. Electronic Conductor in rehearsal with musicians from the Symphony Orchestra of Norrlandsoperan, Sweden.

# Twenty Twenty

*Commissioned by Norrbotten NEO*

Anders Lind 2017  
www.soundslikelind.se  
lind(a)soundslikelind.se

**B**

10      11      12      13      14      15      16      17      18      19      20      21      22      23      24      25

O2020

Fl.

Cl.

Perc.

Pno.

26      27      28      29      30      31      32      33      34      35      36      37      38      39      40

High density drum machine granular texture

O2020

Fl.

Cl.

Perc.

Pno.

41 42 43 44 45 46 47 48 49

O2020

*Jazzy and Aggressive*  
pizz

Vln.

*ff*

*Jazzy and Aggressive*  
pizz

Vla.

*ff*

*Jazzy and Aggressive*  
pizz

Vc.

*ff*

50 51 52 53 54 55 56 57

O2020

Vln.

Vla.

Vc.

C

## **2                  63                  64**

### *High density C major granular texture*

O2020

58 59 60 61 62 63 64 65 66 67 68 69 70

*High density C major granular texture*

**Fl.** **Cl.** **Perc.** **Pno.** **Vln.** **Vla.** **Vc.**

**Gently**  
**p** **Gently**  
**p**

**3** **5** **3** **3** **3** **3** **3** **3** **3** **3** **3** **3** **3** **3**

**p** **p** **p** **p**

D

71      72      73      74      75      76      77      78      79      80      81      82      83      84

O2020

Fl.

Cl.

Perc.

Pno.

85      86      87      88      89      90      91      92      93      94      95      96      97

O2020

Fl.

Cl.

Perc.

Pno.

E ♩=100

98 99 100 101 102 103 104 2 Bars countdown! 105 106 107 108 109 110 111 112

O2020

*Strict but groovy*

113 114 115 116 117 118 119 120 121 122 123 124

O2020

*Strict but groovy*

*p*

*2 Cowbells +  
2 Springs*

Cowb. 1.  
Cowb. 2.  
Spring 1.  
Spring 2.

*p*

*Strict but groovy*

*p*

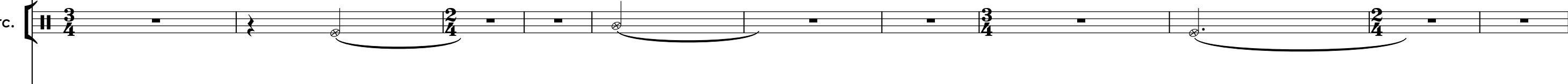
**F**

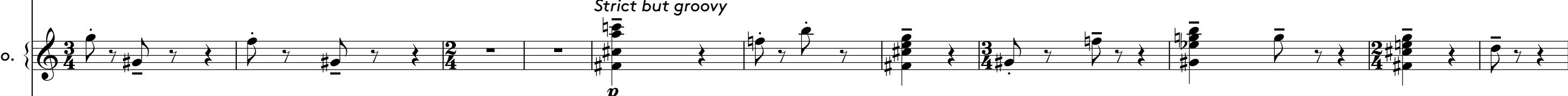
125      126      127      128      129      130      131      132      133      134      135

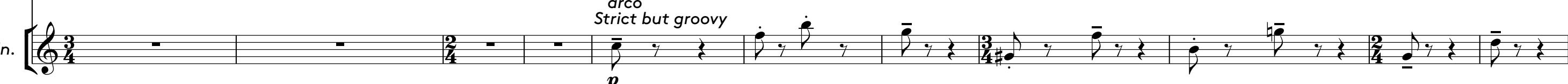
O2020

**Fl.** 

**Cl.** 

**Perc.** 

**Pno.** 

**Vln.** 

*Strict but groovy*

*p*

*Strict but groovy*

*p*

O2020

136 137 138 139 140 141 142 143 144 145

**G**

Fl.

Cl.

Perc.

2 Cymbals +  
1 Ride (let ring)

Pno.

Vln.

Strict but groovy  
arco

Vla.

p  
arco

Strict but groovy

Vc.

*p*

**H**

146      147      148      149      150      151      152

O2020      3      2      3      3      2

*Expressive*

Fl.      Cl.

*Jazzy*

Perc.

*Expressive*

Pno.

*Expressive*

Vln.

Vla.

Vc.

pp

pp

pp

pp

153 *Jazzy irregular hits* 154 155 156 157 158 159 **I** 160

O2020 2/4

*Fl.* 2/4

*Cl.* 2/4

*Perc.* 2/4

*Pno.* 2/4

*Vln.* 2/4

*Vla.* 3/4

*Vc.* 2/4

161 162 163 164 165 166 167 168 169 170 171

O2020

Fl. *p* *pp*

Cl. *p* *pp*

Perc. *p*

Pno. *mp* *p* *pp*

Vln. *p* *pp*

Vla. *p* *pp*

Vc. *p* *pp*

This musical score page contains eleven staves of music for various instruments. The top staff is for Oboe 2 (O2020), which remains silent throughout the measures shown. The second staff is for Flute (Fl.), the third for Clarinet (Cl.), and the fourth for Percussion (Perc.). The fifth staff is for Piano (Pno.), and the bottom three staves are for Violin (Vln.), Viola (Vla.), and Cello (Vc.) respectively. Measures 161 through 171 are displayed. Measure 161 starts with a dynamic of *p* for Fl. and Cl. Measure 162 shows rhythmic patterns with '3' and '5' counts. Measures 163-164 continue these patterns. Measure 165 features a dynamic of *p*. Measures 166-167 show more rhythmic complexity with '3' and '5' counts. Measures 168-171 conclude with dynamics of *pp* for Fl., Cl., and Vln. Performance instructions like '3' and '5' are placed above the notes in several measures to indicate specific subdivisions or groupings.

**J**

O2020

172 173 174 175 176 177 178 179 180 181 182 183 184 185

*Cl.* Strict  $\frac{3}{4}$   $\frac{2}{4}$   $\frac{3}{4}$   $\frac{2}{4}$   $\frac{3}{4}$   $\frac{2}{4}$   $\frac{3}{4}$   $\frac{2}{4}$   $\frac{3}{4}$   $\frac{2}{4}$   $\frac{3}{4}$   $\frac{2}{4}$   $\frac{3}{4}$   $\frac{2}{4}$

*Pno.* Strict but groovy  $\frac{3}{4}$   $\frac{2}{4}$   $\frac{3}{4}$

*Vln.* Strict  $\frac{3}{4}$   $\frac{2}{4}$   $\frac{3}{4}$

*Vla.* Strict  $\frac{3}{4}$   $\frac{2}{4}$   $\frac{3}{4}$

*Vc.*  $\frac{3}{4}$   $\frac{2}{4}$   $\frac{3}{4}$

*pp* *pp* *pp* *pp*

K

186      187      188      189      190      191      192      193      194      195      196      197

O2020

*Fl.*

*Cl.*

*Perc.*

*Pno.*

*Vln.*

*Vla.*

*Vc.*

*Strict*

*p*

*Damp*

*p*

*#p*

*ppp* — *pp*

*p*

198 199 200 201 202 203 204 205 206 207 208

O2020

**L**

Fl.

Cl.

Perc.

Damp

Pno.

Jazzy 5

Vln.

Vla.

Vc.

M

209 *Jazzy irregular hits* 210 211 212 213 214 215 216 217 218 219 220

O2020

**Fl.**

**Cl.**

**Perc.**

**Pno.**

**Vln.**

**Vla.**

**Vc.**

**M**

N

221      222      223      224      225      226      227      228      229      230      231      232

O2020

Fl.      Cl.      Perc.      Vc.

Vibraphone

pizz.

**p**

**p**

233      234      235      236      237      238      239      240      241      242      243      244      245      246

Ticking granular texture

O2020

Perc.

Vln.      Vla.      Vc.

**pizz.**

**p**

247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262

O

O2020

LFO pitch mod.  
synth sound

Gently

Fl.

Cl.

Perc.

Vln.

Vla.

Vc.

This musical score page contains six staves. The top staff is for the Oboe (O), which has a box indicating 'LFO pitch mod. synth sound'. The second staff is for the Flute (Fl.). The third staff is for the Clarinet (Cl.). The fourth staff is for Percussion (Perc.). The fifth staff is for the Violin (Vln.). The bottom two staves are for the Double Bass/Violoncello (Vla. and Vc.). Measure numbers 247 through 262 are listed above the staves. Various dynamics and performance instructions are included, such as 'Gently' for Flute and Clarinet, and dynamic markings like 'p', 'ppp', and '3'.

P

263      264 *Granular texture*      265      266      267      268      269      270      271      272      273      274      275

O2020

*Fl.*

*Cl.*

*Perc.*

*Pno.*

*Vln.*

*Vla.*

*Vc.*

*Jazzy*

*mp*

*8va*

276      277      278      279      280      281      282      283      284      285      286      287

*Low density Noise texture*

O2020

Fl.

Cl.

Perc.

Pno. (8)

Vln.

Vla.

Vc.

Detailed description: This is a musical score page from a piece for orchestra and piano. The top section, spanning measures 276 to 287, is titled 'Low density Noise texture'. It includes parts for O2020 (two staves), Flute, Clarinet, Percussion, and Piano. The piano part is marked 'p' at measure 281. Measures 281, 282, and 283 feature oval-shaped grace notes on the O2020 staves. Measures 286 and 287 consist entirely of rests. The bottom section, spanning measures 276 to 287, includes parts for Violin, Viola, and Cello. Measure 281 has a '5' above the Violin staff and a '3' above the Viola staff, likely indicating a rhythmic pattern. Measures 286 and 287 show rests for all instruments.

**Q**

288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303

O2020

Fl.

Cl.

Perc.

Pno. (8)

Vln.

Vla.

Vc.

This musical score page contains six staves of music. The top staff is for 'O2020' and features a continuous line of eighth-note chords. The second staff is for 'Fl.' (Flute) and 'Cl.' (Clarinet), both playing eighth-note chords. The third staff is for 'Perc.' (Percussion) with eighth-note chords. The fourth staff is for 'Pno.' (Piano) with eighth-note chords, starting with a rehearsal mark '(8)'. The fifth staff is for 'Vln.' (Violin) with sixteenth-note patterns. The bottom staff is for 'Vla.' (Double Bass) and 'Vc.' (Cello), also with sixteenth-note patterns. Measure numbers 288 through 303 are listed above the staves. Various dynamics are indicated throughout the score, including 'p' (piano), 'f' (forte), and 's' (soft).

**R**

304 305 306 307 308 309 310 311

*Ticking granular texture*

O2020

Perc. *Strict but groovy* *mp*

Pno. *mp*

Vln. *mp*

Vla. *mf*

Vc. *mf*

This page contains eight staves of musical notation. The top staff, labeled 'O2020', consists of a single horizontal line with vertical tick marks, spanning measures 304 to 311. The second staff, 'Perc.', shows a continuous pattern of sixteenth-note pairs with sharp and flat key signatures, marked 'mp'. The third staff, 'Pno.', features eighth-note patterns with a bass clef, also marked 'mp'. The fourth staff, 'Vln.', contains sixteenth-note patterns with a treble clef, some with grace notes and slurs, marked 'mp'. The fifth staff, 'Vla.', shows eighth-note patterns with a bass clef, marked 'mf', and includes measure groupings of 5 and 3. The sixth staff, 'Vc.', contains eighth-note patterns with a bass clef, marked 'mf', and includes measure groupings of 5. The page number '24' is located at the top left.

S

O2020 312 313 314 315 316 317 318 319 320 321

Fl. *mp*

Cl. *mp*

Perc.

Pno. *8va*

Vln.

Vla.

Vc.

This musical score page contains ten staves of music. The top five staves (measures 312-321) include parts for O2020 (Oboe 2), Flute, Clarinet, Percussion, and Piano. The bottom five staves (measures 312-321) include parts for Violin, Viola, and Cello. Measure 314 features a woodwind quintet dynamic. Measures 315-321 show sustained notes with slurs. Measure 321 concludes with a piano dynamic. Measure 322 begins with a piano dynamic and a woodwind quintet entry.

322                    323                    324                    325                    326                    327                    328                    329                    330                    331                    332                    333

*Ticking granular texture*

O2020

Fl.      Strict but groovy      *mf*

Cl.      Strict but groovy      *mf*

Perc.    Strict but groovy      *mf*

(8) | Pno.      *mf*

Vln.     *mf*

Vla.     *mf*

Vc.      *mf*

**T**

**U**

334 335 336 337 338 339 340 341 342 343 344 345 346

*Ticking granular texture*

O2020

Fl.

Cl.

Perc.

Pno.

Vln.

Vla.

Vc.

V

347      348      349      350      351      352      353      354      355

O2020 *Mid density percussive texture*

*f*

*f*

*f*

*f*

*Jazzy*

*f*

*Jazzy*

*f*

*Jazzy*

*f*

**W**

356      357      358      359      360      361      362      363

O2020

Fl. *f*

Cl. *f*

Perc. *f*

Pno. *f*

Vln. *f*

Vla. *f*

Vc. *f*

*Strict but groovy*

This musical score page contains eight staves of music. At the top left is a large letter 'W' in a box. Above the staves are measure numbers 356 through 363. The first staff, 'O2020', consists of vertical black bars. The subsequent staves feature various instruments: Flute (Fl.), Clarinet (Cl.), Percussion (Perc.), Piano (Pno.), Violin (Vln.), Cello (Vc.), and Bassoon (Vla.). Dynamic markings such as 'f' (fortissimo) are present on several staves. Performance instructions like 'Strict but groovy' are written above the Violin and Bassoon staves. The music is divided into measures by vertical bar lines.

**X**

O2020

364 365 366 367 368 369 370 371 372 373

High density percussive texture

Fl.

Cl.

Perc.

Pno.

Jazzy

Vln.

Vla.

Vc.

This musical score page contains ten staves of music. At the top, there is a horizontal bar with vertical tick marks corresponding to measure numbers 364 through 373. Above the first staff, there is a large 'X' symbol. The first four staves (Flute, Clarinet, Percussion, and Piano) are grouped together and labeled 'O2020'. The Flute and Clarinet staves feature dynamic markings 'fp' followed by 'f' with crescendo and decrescendo arrows. The Percussion and Piano staves show sustained notes. The bottom six staves (Violin, Cello, Bassoon, and Double Bass) are grouped together and labeled 'Jazzy'. These staves include dynamic markings 'ff' with '3' below them, and 'Jazzy' with '5' above them. The Violin and Cello staves also have 'ff' markings with '3' below them. The Double Bass staff has a 'ff' marking at the beginning. The piano staff includes a 'High density percussive texture' instruction. Measure numbers 364 through 373 are placed above each group of staves.

374      375      376      377      378      379      380      381

O2020 376: *High density  
Percussive texture*

**Fl.** *fp*      *f*

**Cl.** *fp*      *f*

**Perc.**

**Pno.**

**Vln.**

**Vla.**

**Vc.**

**Y** 380: *Mid density...*

*Strict but groovy*

*Strict but groovy*

*Strict but groovy*

Score for orchestra and piano, measures 382-389.

Measure 382: O2020 (percussion) plays eighth-note patterns. Flute (Fl.) and Clarinet (Cl.) play eighth-note patterns.

Measure 383: Flute (Fl.) and Clarinet (Cl.) play eighth-note patterns. Percussion (Perc.) plays eighth-note patterns.

Measure 384: Flute (Fl.) and Clarinet (Cl.) play eighth-note patterns. Percussion (Perc.) plays eighth-note patterns.

Measure 385: Flute (Fl.) and Clarinet (Cl.) play eighth-note patterns. Percussion (Perc.) plays eighth-note patterns.

Measure 386: Flute (Fl.) and Clarinet (Cl.) play eighth-note patterns. Percussion (Perc.) plays eighth-note patterns.

Measure 387: Flute (Fl.) and Clarinet (Cl.) play eighth-note patterns. Percussion (Perc.) plays eighth-note patterns.

Measure 388: Flute (Fl.) and Clarinet (Cl.) play eighth-note patterns. Percussion (Perc.) plays eighth-note patterns. Dynamics: *f*, *ff*.

Measure 389: Flute (Fl.) and Clarinet (Cl.) play eighth-note patterns. Percussion (Perc.) plays eighth-note patterns. Dynamics: *ff*. *Jazzy and Aggressive* dynamics are indicated for the strings.

390            391            392            393            394            395            396            397

O2020

Fl.

Cl.

Perc.

Pno.

Vln.

Vla.

Vc.

mf

AA

402 403  
Very Aggressive!!!...

406 407 408 409 410 411 412 413

O2020

This musical score page contains eight staves of music, each with a specific dynamic and articulation. The staves are as follows:

- Fl.**: Flute, treble clef, dynamic *p*, slurs on notes.
- Cl.**: Clarinet, treble clef, dynamic *p*, slurs on notes.
- Perc.**: Percussion, treble clef, dynamic *p*, slurs on notes.
- Pno.**: Piano, two staves (treble and bass), dynamic *p*, pedaling indicated by 'Ped.' under the treble staff.
- Vln.**: Violin, treble clef, dynamic *p*, slurs on notes.
- Vla.**: Viola, bass clef, dynamic *p*, slurs on notes.
- Vc.**: Cello, bass clef, dynamic *p*, slurs on notes.

The score includes measure numbers 406 through 413 at the top of each staff, and a rehearsal mark O2020 at the beginning of the first staff. Measure 410 features a dynamic instruction *f*. Measures 411 and 412 show a rhythmic pattern of eighth-note chords with a '3' below the staff indicating a triplets grouping. Measures 410 through 413 include slurs over groups of notes, particularly on the Flute and Clarinet staves.

414            415            416            417            418            419            420            421

O2020

BB

Fl.

Cl.

Perc.

Pno.

Ped.

Ped.

Ped.

Ped.

Ped.

Vln.

Vla.

Vc.

422 423 424 425 426 427 428 429 430 431 432 433

O2020

Fl.

Cl.

Perc.

Pno. Ped.

Vln.

Vla.

Vc.

ffp ff

ffp ff

434 435 436 437 438 439 440 2 Bars countdown!  
O2020 Low density Percussive texture C major granular texture

CC  $\text{♩}=120$

441 442 443 444 445 446 447 448 449 450

Fl. - Gently  $p$   
Cl. - Gently  $p$

Perc. - Crotales  $p$

Pno. - Gently  $p$   
Gently  $p$

This musical score page contains a detailed musical score for orchestra and piano. The score is divided into measures 434 through 450. In measures 434-440, the O2020 part maintains a low-density percussive texture. At measure 441, the tempo changes to CC with a quarter note value of 120, and a 2-bar countdown begins. The instrumentation shifts to C major granular texture. The Flute, Clarinet, and Piano (Pno.) parts enter with gentle dynamics (p) and eighth-note patterns. The Percussion part also enters with a dynamic of p and a sustained note. Measures 442-450 continue this pattern, with the piano and woodwinds maintaining their gentle entries and crescendos indicated by brackets.

**DD**

451

452

453

454

455

456

457

458

459

460

461

462

463

O2020

Fl.

Cl.

Perc.

Pno.

Vc.

*sul tasto*

*ppp*

464 465 466 467 468 469 470 471 472 473 474 475

O2020

Fl.

Cl.

Perc.

Pno.

Vla.

Vc.

464-475: Flute, Clarinet, Percussion, Piano, Double Bass, Cello

Measure 464: Oboe 2020. Flute and Clarinet play eighth-note patterns. Percussion and Piano are silent.

Measures 465-475: Flute and Clarinet continue their eighth-note patterns. The piano begins a rhythmic pattern of eighth-note pairs. Double Bass and Cello provide harmonic support with sustained notes.

Measure 475: The section concludes with a dynamic marking of *sul tasto* and *ppp*.

476      477      478      479      480      481      482      483      484      485      486      487      488

O2020

Fl.

Cl.

Perc.

Pno.

Vln.      *sul tasto*

ppp

Vla.

Vc.

This musical score page contains eleven staves of music. The top staff is labeled 'O2020'. Below it are staves for Flute (Fl.), Clarinet (Cl.), Percussion (Perc.), and Piano (Pno.). The bottom section contains staves for Violin (Vln.), Viola (Vla.), and Cello (Vc.). Measure numbers from 476 to 488 are indicated above the top staff. In measure 481, there is a dynamic marking 'ppp' over the Vln. staff. A performance instruction 'sul tasto' is written above the Vln. staff in measure 485. The Vla. and Vc. staves show sustained notes throughout the measures.

489 490 491 492 493 494 495 496 497 498 499 500 501 502

O2020 H

This musical score page contains six staves of music. The top staff is for Flute (Fl.) and the second for Clarinet (Cl.). Both play eighth-note patterns primarily. The third staff is for Piano (Pno.), split into treble and bass staves; it includes a dynamic marking 'Led.' in the middle of the staff. The bottom three staves are for strings: Violin (Vln.), Viola (Vla.), and Cello (Vc.). These three staves feature sustained notes with horizontal stems extending across multiple measures. The page number 42 is at the top left, and measure numbers 489 through 502 are at the top. The rehearsal mark O2020 is on the left, and a rehearsal letter H is above the first measure.

503    504    505    506    507    508    509    510    511    512    513    514    515    516    517

O2020

Fl.

Cl.

Pno.

Vln.

Vla.

Vc.

This musical score page contains six staves of music. The top staff is for Oboe 2 (O2020), featuring a continuous eighth-note pattern across all measures. Below it are Flute and Clarinet staves, also with eighth-note patterns. A piano staff follows, containing a treble clef line with sixteenth-note patterns and a bass clef line with eighth-note patterns. The bottom three staves are for strings: Violin (Vln.), Cello (Vc.), and Bassoon (Vla.). These staves feature sustained notes with fermatas at the end of each measure. Measure numbers 503 through 517 are printed above the staves, and rehearsal mark O2020 is positioned to the left of the first staff. Various musical markings, such as dots and dashes, are placed above certain notes throughout the score.