



The City of **WORCESTER**

Administration & Finance – Purchasing Division
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October 12, 2023

To All Bidders:

Subject: **Bid No. 8088-W4, Pianos & Equipment - DMHS / DPF**

ADDENDUM NO. 1

To Whom It May Concern:

With reference to our bid request relative to the above subject, please refer to the changes/modifications/clarifications to the original proposal request.

Please see below general bid clarifications:

- Storage of pianos & equipment as a unit price has been deleted from this invitation for bids.
- Revised pricing pages are attached / posted on the bids page for use with bid submission.
- Product specifications are attached.

Bidders are requested to acknowledge and/or include this addendum with submission. All other terms, conditions and specifications remain unchanged.

Very truly yours,

Christopher J. Gagliastro
Purchasing Director

Qty: (1) at Chorus

Boston New Model **GP-178 PE-II**

DIMENSIONS

HEIGHT	40" (102 cm)
LENGTH	5' 10" (178 cm)
WIDTH	59 3/4" (151 cm)
NET WEIGHT	660 lbs. (300 kg)

ENCASEMENT

FURNITURE	Ebonized over an outer substrate of phenolic resin. Natural finishes over Walnut or Mahogany veneer.
PANEL STOCK	Must be multi-laminated lumber core (plywood) ; cross-banded veneer top and bottom of each panel.
LEGS	Solid Beech.
FINISH	Polyester (Polished Finishes) or Nitrocellulose Lacquer (Satin Finishes).
HARDWARE	Solid brass, high-polished or satin and lacquered.

INSTRUMENT

RIM	Must have 11 laminations of Philippine mahogany forming the outer rim and 17 laminations of Hard Rock maple forming the inner rim. Thickness must equal 2 3/8" .
BRACES	Must have three radiating braces made from laminated Philippine mahogany.
PINBLOCK	Must have 11 laminations of Hard Rock maple, each lamination to be a minimum of 1/8" in thickness. Grain symmetrically distributed at angles of 60 degrees. Pinblock must be fully fitted to plate flange, inspected for fit, and screwed to case structure.
SOUNDBOARD	Must be quarter-sawn, close-grained (minimum 8 grains/inch), solid Sitka spruce to be continuously tapered 8mm thick to 6mm thick from treble to bass.
RIBS	Must have 11 solid straight grained spruce ribs. Ribs must be fully let-in to the inner rim to lock in the soundboard crown.
BRIDGES	Treble: Must be made of alternating mahogany and maple, vertically laminated, capped with solid maple, curved to fit crown of soundboard. Bass: Solid maple mounted to cantilever base. Both bridges are planed to prescribed customized height and notched for precise individual string bearing, glued and screwed to soundboard.
SCALE	Overstrung: combination agraffe; front and rear duplex . Tension: 34,958 lbs. (15,980 kg)
PLATE	Must be made from gray iron; vacuum cast, bronzed and lacquered.
TUNING PINS	Premium nickel-plated steel with cut threads.



Boston New Model GP-178 PE-II (continued)

STRINGS	Treble: Must have 12 wire sizes . Made from high tensile Swedish steel. Bass: Made by Mapes in Tennessee, USA. Longest agraffe to bridge 53.5” .
HAMMERS	20.9 lb. premium wool outer-felt; over premium wool under-felt, treated for insects and moisture; compression-wire-reinforced to retain pear shape; mahogany moldings; tapered shanks from select maple or hornbeam.
DAMPERS	Solid mahogany heads with premium wool.
ACTION	Must be made from solid maple (no plastic) for all moving parts; STEINWAY profile-shaped flange, extruded aluminum action rails, STEINWAY action geometry.
KEYS	Key material must consist of genuine spruce, individually balanced and weighted, covered with chip-proof, stain-resistant synthetic ebony sharps and synthetic ivory naturals.
KEYBED	Must be of laminated hardwood faced with spruce. Must have large maple dowel ends for adjustable brass touch-regulating screws. Must be 1.68” (42mm) in thickness. Must have keyblock plates with height adjustment screws.
KEYFRAME	Must be made from spruce with hardwood inserts in the balance rail and front rail.
PEDALS	Must be heavy solid brass. Soft, full sostenuto, and damper.
OTHER	Must have double top prop sticks, soft-fall fallboard, top locks, heavy-duty solid brass casters and four-position music desk.



*Steinway & Sons New Model B***DIMENSIONS**

HEIGHT	39 7/8" (101 cm)
LENGTH	6' 11" (211 cm)
WIDTH	58" (148 cm)
NET WEIGHT	760 lbs. (345 kg)

ENCASEMENT

FURNITURE	Ebonized or Crown Jewel Collection veneer.
PANEL STOCK	Quarter-sawn poplar core wood, cross-banded with mahogany and face veneer.
SOLIDS	Ebonized Birch or Maple, Mahogany, Walnut.
LEGS	Ebonized Birch, Crown Jewel Collection veneer over birch, locking devices.
FINISH	Heavy full-bodied black or clear lacquer completely hand-rubbed.
HARDWARE	Solid brass; polished & lacquered.

INSTRUMENT

RIM	Must have a minimum of 16 laminations of Hard Rock maple, each lamination not to exceed 3/16" in thickness, and 2 face veneers, simultaneously bent, both inner and outer rims, in one single operation to form one single rim. Thickness must equal 3".
BRACES	Must have 4 solid spruce with a volume of 1,195 cu. in. or (19,583 cm ³), maple doweled to rim. Must include a cast iron treble bell affixed to the rims underside at the treble bend. S&S iron wedge anchors to secure brace ends to cross block.
PINBLOCK	Must have 7 laminations of Hard Rock maple with top and bottom plies 3/16" in thickness; diagonal and cross-grain plies 3/32" in thickness and center ply to be 1/8" in thickness. Configuration of grain must be symmetrically distributed at successive angles of 45, 90, 135 and 180 degrees and must be fully fitted to plate flange and doweled to case structure.
SOUNDBOARD	Must be quarter-sawn, close grained (minimum 11 grains/inch), Sitka spruce to be 8mm thick in the center continuously tapered in all directions to 5mm as it approaches the rim, before being Double-Crowned.
RIBS	Must be made from durable, resinous sugar pine to assure strong and constant down-bearing. Rib ends are hand-fitted into the inner rim to lock-in the soundboard crown.
BRIDGES	Treble & Bass: Must be made of Hard Rock maple, vertically laminated, capped with solid Hard Rock maple, continuously bent to form one single bridge, planed to prescribed height, graphite coated, drilled and hand-notched for precise individual string bearing, maple doweled, glued and screwed to soundboard.
SCALE	Overstrung; combination agraffe; front and rear duplex. Tension: 39,047 lbs. (17,571 kg).
PLATE	Must be made from gray iron; ground, CNC-milled, sealed, bronzed and lacquered.
TUNING PINS	Premium steel with nickel-plating for rust resistance.



Steinway & Sons New Model B (continued)

STRINGS	Treble: Twelve whole & one-half sizes made from high tensile steel. Bass: Steel core wound with pure solid copper. Longest agraffe to bridge 59 ¼”.
HAMMERS	16.5 lb. premium wool outer-felt; over premium wool under-felt, treated for insects and moisture; Compression-wired to retain pear shape. Hard maple moldings; shanks from select maple.
DAMPERS	Maple heads with premium horizontal-cut wool.
ACTION	Must be made from white quarter-sawn maple parts; bushed treated wool action cloth. Parts are to be anchored in hard maple dowels housed in inflexible seamless brass tubing. Single, combination phosphor bronze repetition & fly spring.
KEYS	Key material must consist of Bavarian spruce, individually weighed-off, covered with chip proof, stain resistant plastic, Linden wood buttons to reinforce keys over balance rail. Must be specifically designed utilizing a combination of half-round balance rail bearings and strategically placed key leads.
KEYBED	Must be made from quarter-sawn spruce. Horizontal planks are to be freely mortised together, while their ends are to be permanently mortised into end caps of birch. Front center is to be crowned contrasting the reverse-crowned key frame for snug fit. Must have end grain maple dowels to provide a solid mount for adjustable brass touch-regulating screws. Must measure 1 11/16” in thickness.
PEDALS	Must be heavy solid brass. Soft, sustaining, full sostenuto.



Qty: (1) at Band



Roland LX708-CH
Charcoal Black
Premium Upright Digital Piano

Roland LX708-CH

Warranty: 10 year manufacturer warranty, parts and labor

Specs

Sound Generator

Piano Sound

Piano Sound: *PureAcoustic* Piano Modeling

Max. Polyphony

Piano: Limitless (solo playing using 'Piano' category tones)

Other: 256

Tones

Total 324 tones

Ambience

PureAcoustic Ambience

Type: Studio, Lounge, Concert Hall, Wooden Hall, Stone Hall, Cathedral

Depth: 11 types

My Stage

12 types

Keyboard

Hybrid Grand Keyboard: Wood and Plastic Hybrid Structure, with Escapement, Ebony/Ivory Feel and Haptic Key Vibration (88 keys)

Pedal

Responsive Damper Action Pedal (Damper pedal: capable of continuous detection, Soft pedal: capable of continuous detection/function assignable, Sostenuto pedal: function assignable)

Speaker System

Acoustic Projection

Speakers

Cabinet Speakers: 25 cm (9-7/8 inches) x 2 (with Speaker Box)

Near-field Speakers: (12 cm (4-3/4 inches) x 8 cm (3-3/16 inches)) x 2 (with Speaker Box)

Spatial Speakers: (12 cm (4-3/4 inches) x 8 cm (3-3/16 inches)) x 2

Spatial Speakers: 2.5 cm (1 inches) x 2 (Dome type)

Rated Power Output

20 W x 2

6 W x 2

6 W x 2

5 W x 2

Headphones

Headphones Acoustic Projection

Tuning, Voicing

Touch Sensitivity

Key Touch: 100 types, fixed touch

Hammer Response: 10 types

Master Tuning

415.3–466.2 Hz (adjustable in increments of 0.1 Hz)

Temperament

10 types (Equal, Just Major, Just Minor, Pythagorean, Kirnberger I, Kirnberger II, Kirnberger III, Meantone, Werckmeister, Arabic), selectable temperament key

Effects

Brilliance

Piano Designer

Lid

Key Off Noise

Hammer Noise

Duplex Scale

Full Scale String Resonance

Key Off Resonance

Cabinet Resonance

Soundboard Type

Damper Noise

Soft Pedal Type

Single Note Tuning

Single Note Volume

Single Note Character

Internal Songs

US: Total 399 songs

Other: Total 389 songs

Listening: 22 songs

Ensemble: 30 songs

Entertainment: 20 songs

Easy Piano: 10 songs (US only)

Let's Sing with DO RE MI: 30 songs

Lesson: 287 songs (Scale, Hanon, Beyer, Burgmuller, Czerny 100)

Data Playback**Playable Software**

Standard MIDI Files (Format 0, 1)

Audio File (WAV: 44.1 kHz, 16-bit linear format, MP3: 44.1 kHz, 64 kbps - 320 kbps, requires USB Flash Memory)

Recorder**Recordable Software**

Standard MIDI Files (Format 0, 3 parts, Approx. 70,000 notes memory)

Audio File (WAV: 44.1 kHz, 16-bit linear format, requires USB Flash Memory)

Bluetooth

Audio: Bluetooth Ver 3.0 (Supports SCMS-T content protection)

MIDI: Bluetooth Ver 4.0

Compatible Android / iOS Apps (Roland)

Piano Every Day

Piano Designer

Convenient Functions

Metronome (adjustable Tempo/Beat/Down beat/Pattern/Volume/Tone)

Registration

Dual

Split

TwinPiano (with Individual Mode)

Transpose (in semitones)

Speaker volume and Headphones volume automatically select function

Volume limit function

Panel Lock

Auto Off

Cabinet

Music rest: with Music holders

Key cover: Fallboard type, with Keyboard Lid Switch

Other

Display

Graphic OLED 128 x 32 dots

Connectors

DC In jack

Input jacks: Stereo miniature phone type

Output (L/Mono, R) jacks: 1/4-inch phone type

USB Computer port: USB B type

USB Memory port: USB A type

Phones jack x 2: Stereo miniature phone type, Stereo 1/4-inch phone type

Power Supply

AC adaptor

Power Consumption

24 W (22 W–70 W)

Accessories

Owner's Manual

Leaflet "USING THE UNIT SAFELY"

"Roland Piano Masterpieces"

AC adaptor

Power cord

Headphone hook

Option (sold separately)

Headphones

Size (with top lid close)

Width

1,395 mm

54-15/16 inches

Depth

491 mm
19-3/8 inches

Height

1,180 mm
46-1/2 inches

Size (with top lid open)

Width

1,395 mm
55-15/16 inches

Depth

502 mm
19-13/16 inches

Height

1,253 mm
49-3/8 inches

Weight

LX708-PE, LX708-PW

110.5 kg
243 lbs 10 oz

LX708-CH

109.0 kg
240 lbs 5 oz

Bench

Matching Roland Bench



54-1/4 inches
(1,377 mm)

18-7/16 inches
(468 mm)



43-7/8 inches
(1,113 mm)



37-11/16 inches
(957 mm)

HP-704

HP704-PE: 134 lbs 8 oz (61.0 kg)

HP704-CH/DR/LA/WH: 131 lbs 3 oz (59.5 kg)
(including piano stand)

Quantity:

(19) at Piano Lab

(1) at each Ensemble (2 total)

(1) at each Practice Room (6 total)

Grand total: 27

Roland HP704-CH

Warranty: 10 year manufacturer warranty, parts and labor

Specs

Sound Generator

Piano Sound

Piano Sound: SuperNATURAL Piano Modeling

Max. Polyphony

Piano: Limitless (solo playing using 'Piano' category tones)

Other: 384

Tones

Total 324 Tones

Keyboard

PHA-50 Keyboard: Wood and Plastic Hybrid Structure, with Escapement and Ebony/Ivory Feel (88 keys)

Pedal

Progressive Damper Action Pedal (Damper pedal: capable of continuous detection, Soft pedal: capable of continuous detection/function assignable, Sostenuto pedal: function assignable)

Speaker System

Acoustic Projection

Speakers

Cabinet + Near-field Speakers: 12 + 2.5 cm (5 + 1 inches) x 2 (Coaxial Speaker)

Spatial Speakers: 5 cm (2 inches) x 2

Rated Power Output

25 W x 2

5 W x 2

Headphones

Effect: Headphones 3D Ambience

Tuning, Voicing

Touch Sensitivity

Key Touch: 100 types, fixed touch

Hammer Response: 10 types

Master Tuning

415.3–466.2 Hz (adjustable in increments of 0.1 Hz)

Temperament

10 types (Equal, Just Major, Just Minor, Pythagorean, Kirnberger I, Kirnberger II, Kirnberger III, Meantone, Werckmeister, Arabic), selectable temperament key

Effects

Brilliance, Ambience

Piano Designer

Lid

Key Off Noise

Hammer Noise

Duplex Scale

Full Scale String Resonance

Damper Resonance

Key Off Resonance

Cabinet Resonance

Soundboard Type

Damper Noise
Single Note Tuning
Single Note Volume
Single Note Character

Internal Songs

US: Total 392 songs
Other: Total 382 songs
Listening: 15 songs
Ensemble: 30 songs
Entertainment: 20 songs
Easy Piano: 10 songs (US only)
Do Re Mi Lesson: 30 songs
Lesson: 287 songs (Scale, Hanon, Beyer, Burgmuller, Czerny 100)

Data Playback

Playable Software

Standard MIDI Files (Format 0, 1)
Audio File (WAV: 44.1 kHz, 16-bit linear format, MP3: 44.1 kHz, 64 kbps - 320 kbps, requires USB Flash Memory)

Recorder

Recordable Software

Standard MIDI Files (Format 0, 3 parts, Approx. 70,000 notes memory)
Audio File (WAV: 44.1 kHz, 16-bit linear format, requires USB Flash Memory)

Bluetooth

Audio: Bluetooth Ver 3.0 (Supports SCMS-T content protection)
MIDI: Bluetooth Ver 4.0

Compatible Android / iOS Apps (Roland)

Piano Every Day
Piano Designer

Convenient Functions

Metronome (adjustable Tempo/Beat/Down beat/Pattern/Volume/Tone)
Registration
Dual
Split
TwinPiano (with Individual Mode)
Transpose (in semitones)
Speaker volume and Headphones volume automatically select function
Volume limit function
Panel Lock
Auto Off

Cabinet

Music rest: Tilt Adjustable (3 levels), with Music holders
Key cover: Slide type, with Keyboard Lid Switch and Classic Position

Other

Display

Graphic OLED 128 x 32 dots

Connectors

DC In jack
Input jacks: Stereo miniature phone type
Output (L/Mono, R) jacks: 1/4-inch phone type
USB Computer port: USB B type

USB Memory port: USB A type

Phones jack x 2: Stereo miniature phone type, Stereo 1/4-inch phone type

Power Supply

AC adaptor

Power Consumption

13W (12W–30W)

Accessories

Owner's Manual

Leaflet "USING THE UNIT SAFELY"

The collection of scores "Roland Piano Masterpieces"

AC adaptor

Power cord

Headphone hook

Option (sold separately)

Headphones

Size (including piano stand, with music rest)

Width

1,377 mm

54-1/4 inches

Depth

468 mm

18-7/16 inches

Height

1,113 mm

43-7/8 inches

Size (including piano stand, when folding down the music rest)

Width

1,377 mm

54-1/4 inches

Depth

468 mm

18-7/16 inches

Height

957 mm

37-11/16 inches

Weight (including piano stand)

HP704-PE

61.0 kg

134 lbs 8 oz

HP704-CH, HP704-DR, HP704-LA, HP704-WH

59.5 kg

131 lbs 3 oz

Bench

Matching Roland Bench

GLC-1

Lab Conferencing System

Qty: (1) at Piano Lab

Roland



- Comprehensive stand-alone conferencing system; represents the next generation in music conferencing
- Eight-station stereo lab system expandable up to 48-stations with GLC-EXPKIT expansion kits
- Easy set up using supplied connectors, cables, and headsets
- Rack mountable hub controlled via the conference controller
- External audio output for monitoring and recording
- GLC-1 includes nine GLC-SB interface boxes
- Broadcast an external audio source (e.g. CD player, computer, Music Tutor, etc.) using CD input or AUX input; record lectures and performances on an external audio recorder (e.g. CD, hard disk, computer, etc.) using MON output
- Audio input for external source playback
- Optional SB-45 Conferencing Headsets with Microphone for two-way communication (sold separately)

GLC-EXPKIT

Lab Expansion Kit

Qty: (2) at Piano Lab

- One (1x) eight-student expansion card
- Eight (8x) GLC-SB student connector boxes
- Eight (8x) cables
- Optional SB-45 Conferencing Headsets with Microphone (sold separately)



SB-45

Conferencing Headset with Microphone

Qty: (25) at Piano Lab

- Delivers premium sound at all volume levels
- Frequency response of 18Hz-20,000Hz for full-range sound
- Large, closed ear cups surround the ear for maximum isolation so you can stay focused
- Soft, leatherette ear cushions envelope your ears without creating pressure for long lasting comfort
- Plastic headband can stand up to the rigors of daily wear and tear for a fits-like-new feel after years of use



PIANO DOLLIES - DIGITAL

for Digital Piano Roland LX-708-CH



J4004 FULLY ADJUSTABLE DIGITAL UPRIGHT DOLLY

- Standard Adjustable Model to accommodate many Digital Pianos.
- Custom Configurations for Specific Models of Digital Pianos.
 - See price list for details
- Width 47" to 68"
- Depth 15" to 22"
- Tubular Steel Construction
- Black Powder Coat Finish
- Double Wheel Rear Casters
- Single Wheel Locking Front Casters
- Manufactured by Paul L. Jansen & Son®

Please note the instrument brand and model when ordering.

PIANO DOLLIES - GRANDS

GRAND PIANO DOLLY

- **6542** - Fits Grand Pianos from 4'6" to 5'11" for Boston
- **6543** - Fits Grand Pianos from 6" to 7'6" for Steinway

• **Exceptions:** 6'0"/6'1" Yamaha, Kawai, Kohler & Campbell, Samick and Young Chang require the **6542**.

- **6544** - Fits Concert Grand Pianos
- **6544R** - Fits Concert Grand Pianos with large style brass casters
- **6544XL** - Fits 9'6" Bosendorfer Grand Piano
- Equipped with 5" diameter, 2" wide, American Made casters
- Standard Color - Black
- Manufactured by Paul L. Jansen & Son®
- Options available at additional cost:
 - Locking casters
 - Brown Color
 - Double Truss Grand Dolly



Please note the piano brand and model when ordering.

PIANO COVERS



Destiny Canvas Padded Quilt
Outer Skin: Durable Water-Repellent Soft
Canvas - Black, Quilted
Backing: 1/4" Sponge Soft Backing Cloth
for Boston Model GP-178 5'-10" Grand Acoustic Piano



Destiny Canvas Padded Quilt
Outer Skin: Durable Water-Repellent Soft
Canvas - Black, Quilted
Backing: 1/4" Sponge Soft Backing Cloth
for 7' Steinway Model B Acoustic Grand Piano

PIANO ACCESSORIES

LUCITE FALLBOARD LOCK

#205



for 7' Steinway Model B Acoustic Grand
Piano and Boston Model GP-178 5'-10"
Acoustic Grand Piano

- Easy installation
- Does not touch finished surfaces of piano
- Manufactured with a high quality pin tumbler lock and two keys
- Can be keyed alike - specify with order
- Used in schools, auditoriums, hotels, churches and concert halls