ADDENDA TO SPECIFICATIONS FOR RESIDENCE -A-

PLAIN AND REINFORCED CONCRETE WORK

FLOOR FINISH: Use 1:2 mix.

FLOORS ON GROUND: Use sand cushion instead of cinders. Concrete floors on ground shall be 3" thick. Omit concrete floor in front of servants room.

MASONRY:

FIREPLACES: Omit dampers.

CARPENTRY:

MILLWORK: All outside finished woodwork shall be Redwood, except sash, which will be sugar pine. Entrance door to be red gum. All interior finished woodwork of living room, dining room and bedrooms to be red gum, white streaks left in. Servants rooms and basement shall be finished with Oregon pine. Doors of servants' rooms may be 5 panel doors. All other doors one panel. Millwork otherwise as specified.

Shoe rails in closets and on cement floors to be made of 3/8" x 7/8" lumber.

SCREENS: All window screens to be fitted with galvanized flyscreens.

HARDWARE: Include finished hardware in contract, and submit samples for approval. All hardware to have brass finish.

ROOFING: Composition roof shall be 3 ply. Use Malthoid or equal top sheet instead of canvas.

COMPOSITION: Kitchen counters to have composition tops.
LATHING AND PLASTERING:

✓ PLASTER WORK: Patent plaster of approved brand may be used.

✓ HARD PLASTER: Kitchen and baths below picture mold to be finished smooth with approved hard plaster.

✓ COATS:
  Interior Plaster: Two coats, sandfinish.
  Outside Plaster: Three coats, sandfinish.

✗ NOTE: OMIT PLASTER ON STORE ROOM WALLS, EXCEPT ON STUD PARTITIONS.

GLAZING:

SHEETGLASS: All glass in each subdivided by wood muntins and less than 2'0" long, shall be single strength.

MIRRORS: WIDTH OF MIRROR ON DOOR SHALL BE HALF THE WIDTH OF DOOR PANEL.

PAINTING:

✓ Omit painting of canvas roofs.

PLUMBING:

✓ CONDUCTOR PIPES: Furnish and install 0.1 conductor pipes as indicated on plans and make connections to conductor-head. Rainwater to be discharged on ground as directed.

✓ FLOORDRAINS: Install floordrains in laundry and special garage floordrain in garage—both to have brass covers.

✓ WATER MAINS: Provide 1" galvanized iron water-main, and connect to watersupply 6'0" from building.

✓ GAS MAIN: PROVIDE CONNECTIONS FOR GAS RANGE IN KITCHEN.

✓ GAS HOT-WATER HEATER: HOT WATER HEATER SHALL BE OF SUPERBO TYPE OR EQUAL.
ELECTRICAL WIRING:

OMIT ALL POWER WIRING AND ALL ELECTRICAL HEATERS, EXCEPT THAT ONE BASE PLUG FOR A SMALL HEATER SHALL BE PROVIDED IN EACH BATH TUB.
PLAIN AND REINFORCED CONCRETE WORK

SPECIFICATIONS

RESIDENCE (A)

A: BARNSDALL

HOLLYWOOD, CALIFORNIA

Finally Revised Dec. 7, 1920 Ink

FRANK LOYD WRIGHT
Architect
528 Hope Van Buren Bldg.
Los Angeles.
More than three (3) hours after the slab concrete is deposited. The finish must be especially guaranteed and must be replaced if it proves defective at any time within one (1) year after completion. The thickness of the finished coat must be at least 3/4" and the thickness of the finish is to be included as part of the total slab thickness.

COOPERATION: The contractor must conduct his work in such a way as to cooperate with all other branches of the construction for the purpose of securing the best results for the Owner. He shall work in harmony with the mason contractor to secure the proper bonding of the concrete with the masonry; and the two contractors shall conduct their operations so as to interfere to the least possible extent with each other. Other contractors shall be given every opportunity to install sleeves, girders, conduits, etc. in the forms and this contractor shall very carefully enclose same in the finished concrete work.

The Architect’s representative shall have final jurisdiction with regard to any disputes arising between contractors.

WETTING OF CONCRETE: During warm and dry weather, the finished concrete work shall be thoroughly soaked with water from time to time, in order to assist in the proper setting and hardening of the concrete.

FLOORS ON GROUND: Wherever concrete floors are called for bearing directly on the soil, same are to be constructed as follows:

The earth surface to be carefully leveled, rolled and tamped to a smooth, compact, hard surface. A cushion of cinders or cinders and sand not less than 3" thick after tamping, is to be spread over the ground and a concrete floor not less than 4" in thickness is to be placed on this foundation. Water shall be used liberally in leveling the earth and in leveling the cushion. If cinders are unavailable, then crushed stone or gravel is to be used to form the cushion. Where composition finish is called for a 4" layer of cinder concrete is to be substituted for the concrete floor.

CURVES AND POOLS: To be executed in reinforced concrete as per details. Concrete in pool slabs to be waterproofed by integral method (Ceresit or similar). Drains and supply openings to be properly imbedded to completely drain the surfaces.

MULLIONS: The concrete contractor shall keep the premises reasonably clean during the progress of the work, and shall make removal of accumulated rubbish when directed.
PLAIN AND REINFORCED CONCRETE WORK

GENERAL CONDITIONS: All work described under this heading is subject to the general conditions hereto attached.

WATER: This contractor shall, at his own expense, make connections to the present water supply on the premises to such points as he may require, so as to facilitate his work.

PRIVY VAULTS: This contractor shall build and maintain in a sanitary condition, a privy vault on the premises for the use of the men. When directed by Architect, contractor shall remove privy vault and fill in holes with earth.

IN GENERAL: It is understood that the contractor shall furnish all material and labor necessary to complete the plain and reinforced concrete portions of the complete building. The following specifications are intended to describe and specify the quality of material and labor to be furnished. It is also intended to outline the more important parts of the concrete work. All portions of the work not directly mentioned are to be constructed by this contractor in a manner equal to the parts specified.

MATERIALS: All materials furnished are to be the best of their kind and the following material specifications are to be taken as a general guide. The Architect will cooperate with the contractor in obtaining the best possible material from the immediate neighborhood of the building site; but variations from the grade established by the following material specifications are to be under the control of the Architect.

Cements: Portland cement conforming to standard specifications.

Sand: Clean, sharp coarse sand, free from clay or organic matter, stone or gravel.

Cinders: Cinders used in this work must be clean steam-coal cinders and of sufficiently good quality to make a durable concrete. Cinders to be thoroughly soaked before using.

Concrete: Mixing to be done with concrete mixer approved by architect. Ingredients to be carefully proportioned and mixed.

Proportions: Above grade Cement: Sand: Gravel: 1:2:4
Below " " " " 1:2:5
Under concrete " " " Cinder 1:2:6
FORMS: All forms and form work are to be got out of sound lumber, free from knot-holes or loose knots, surfaced on one side and two edges, excepting in connection with surfaces that are to be plastered, in connection with which only the edges of lumber are to be surfaced. All forms are to be erected true to a line and level and are to be thoroughly clamped and braced so as to prevent all sagging and bulging. Should sagging and bulging occur, it shall be optional with the Architect to order work removed and replaced. All forms shall be thoroughly wetted immediately before concrete is placed.

REMOVAL OF FORMS: The contractor shall be solely responsible for any damage resulting from premature removing of forms. The Architect reserves the right to prevent removal of forms in any case, but their permission to remove them does not include the responsibility for any accidents resulting from their removal.

After the forms have been removed, sufficient temporary bracing shall be installed to thoroughly protect the work from any possible injury.

SLAB SETTING: The reinforcing steel is to be placed in and on the forms accurately, in accordance with the requirements of the drawings, and is to be carefully wired and blocked in order to insure its proper placing in the completed work. Should reinforcement become misplaced, while the concrete is being poured, the work must be stopped, the concrete removed and the steel properly set.

HANDLING OF CONCRETE: All concrete must be carried from the mixer to the forms in the shortest possible time. No concrete that has been mixed more than one hour shall be used under any circumstances. When concrete is placed, it shall be thoroughly allowed and spaded to remove all air and water pockets and after same is brought up to the finished level, it shall be sufficiently worked to produce a dense, solid concrete. Concrete must be wet enough to avoid the necessity of tempering.

FLOOR FINISH: Whenever finished concrete floor surface is called for on plans, same shall be constructed as follows:

The finished surface must be constructed at the same time and as a part of the main slab. The finishing material must be made of a mixture of:

1 part cement

1-1/2 parts sand

and it shall be very carefully floated and travaeled to a smooth, hard surface and thoroughly incorporated in the slab concrete. It shall in no cases be laid.
MASONRY

SPECIFICATIONS

RESIDENCE (A)

A. BARNSTALL

HOLLYWOOD, CALIFORNIA

furniture, Eames Dec 7 1930

FRANK LLOYD WRIGHT

Architect

Los Angeles
HOLLOW TERRA COTTA TILE WORK:

General: Provide and erect all hollow tile exterior and interior bearing walls of hard burned tile, true and regular in size and shape, manufactured of such design that all webs and shells are in direct compression when laid in the wall. Tiles shall have all faces scored with special dovetail scoring to offer a good surface for the stucco finish. Tiles cracked or broken on the outside shells will be unacceptable under this specification. If tile is unobtainable hollow brick may be used or a construction of ordinary brick laid up hollow.

Laying: All tile used in the exterior walls and interior bearing partitions must be laid with the holes or voids vertical in the walls, but a generous air space shall be left in the center of the walls by butting the two edges of the tile either before or after it is set in the wall. Exterior sub-dividing, non-bearing partitions tile may be laid either side by side as desired. Care must be taken that the top of all unfinished walls are thoroughly covered or protected against stormy weather.

Mortar: All mortar used for laying up the hollow tile shall consist of a standard Portland cement and clean sharp sand in the proportion of one part cement to three parts sand, well mixed to a smooth, moderately stiff mortar. Lime not to exceed 10 per cent of the cement by volume will be allowed in the mortar.

Lintels: Openings not exceeding 6'-0" in clear span may be spanned with BASCO XXX arch lintel tile or with BASCO XXX tile reinforced with rods in lower cells and filled solidly with concrete. Openings over 6'-0" in clear span to be spanned with reinforced concrete girder faced with tile, or with
steel angles — size of structural or reinforcing steel variable with load and span, or concrete re-
infroc as above maybe used instead.

**Floor Beam Beams:** These slabs shall also be used for working up to levels and story heights when the full or fractional tile do not work out correctly or the proper bearing may be provided by casting solid concrete beneath the beams in place.

**Roof Plates:** Embed in cement great in two upper corners of wall at intervals of five feet 2/4" bolts twenty four inches long. Bolt to project six inches above the top or the wall to allow top plate being fastened down with nuts, wherever same is necessary in the judgment of the Architect or his representative.

**Brick:** No common brick should be used for the plastered wall surfaces unless the joints are deeply raked out and surface plastered are thoroughly watertight and sides with hot asphalt or H.I.W. waterproofing compound and approved damp proof courses shall be provided and built in at the grade in all walls.

**Art Stone:** Build in properly all stonework shown on plans. Furnish necessary anchors.

**Chases:** Wherever indicated or required, the mason shall build chases in the wall for pipes, etc., to accommodate the work of other mechanics.

**Wood Blocks:** Build in all wood blocks for fastening frames, Joists, Grains, trim corners, and plumbing fixtures.

**Fireplaces:** Fireplace linings shall be nra up 60% best quality fire brick in fire clay. Furnish and set with each fireplace, the necessary iron lintels consisting of angle irons, also a 50" wide rains head and damper similar to those manufactured by the Colonial Fireplace Company of Chicago or an equivalent approved by The Architect. All fireplaces to be built by expert masons who understand the building of fireplaces. The work will be done under special instructions from the architects.

**Rubish:** The mason contractor shall keep the premises as clean as possible during the progress of the work and shall make removal of accumulated rubbish when directed.

**Waterproofing:** In addition to waterproofing already specified, all wall surfaces whether tile, stone or concrete which are to be in contact with the ground and especially the inside of all floor boxes shall receive one coat of H.I.W. Waterproofing or satisfactory equivalent. The waterproofing to be applied at any time during which the wall surfaces are accessible before the back filling is done. This does not include footings and concrete walls which are cast into trenches without forms. The waterproofing materials to be applied with a brush with sufficient force to fill all crevices and completely cover the surface. The material shall be used pure and undiluted; one gallon to cover not more than 90 sq. feet.
ART STONE

SPECIFICATIONS
RESIDENT (A)
A. BARNSDALL

HOLLYWOOD, CALIFORNIA

FRANK LLOYD WRIGHT
ARCHITECT
522 RUBBER LAUGHLIN BLDG.
LOS ANGELES.
GENERAL CONDITIONS: All work described under this heading is subject to the general conditions hereto attached.

SCOPE OF WORK: The work covered by this specification shall consist of all surfaced concrete work, as-bees, copings, trimmings of fireplaces, flower boxes, stone ornaments, captists, etc.

CONCRETE MIXTURE: Mixture of concrete to be of one cement, three of granite, screenings or other approved aggregates and five of screened birds eye gravel.

COLOR: A mineral color to be used according to the directions of Architect, to produce slabs same to accepted color sample to be made and submitted by this Contractor.

WORKMANSHIP: All this work to be cast in forms and set in their proper places, to the entire satisfaction of the Architect, or may be cast at the Contractor's premises and delivered intact to grounds to be there set by this Contractor, vertical joints, close horizontal joints 1/8" thick.

FINISH SURFACE: Concrete if furnished as individual stones or if cast in place, shall be treated before it has receive its final setting with a wash of strong solution of muriatic acid neutralized afterwards with an alkaline solution and thoroughly cleansed with an abundance of water, or otherwise specially treated to produce texture as approved in sample made and submitted by this Contractor and approved by the Architect.

Care must be taken in the building of forms which shall all be made of new dressed lumber or of metal as the case may be, that all corners are sharp and that moldings are true and straight. In order to allow for proper removal of forms, the same shall be oiled on the inside or treated with soap, before concrete is poured. Furnish models made of plaster for all sculptured work, and have same approved by Architect before metal forms are made.

SILLS AND COPINGS: Furnish forms and cast cement sills and copings through all buildings for windows in outside walls and copings where called for. Chimneys to have cement copings.

WATERPROOFING: This contractor shall coat inside of all flower boxes and water basins with guaranteed water-proof transparent paint, and beneath all base courses, all courses, or copings whatever shall water proof the walls upon which they rest with asphalt or R.I.W. coating.

PROTECTION: This Contractor shall protect all stonework against damage. He will be held responsible for all discolored and chipping of his work until after the building is completed and shall replace all such damaged pieces entirely at his own expense.
MAAS ASSOCIATES, INC.
JULY 2009

HISTORIC STRUCTURE REPORT
BARNSDALL PARK, RESIDENCE A
TASK I, II, AND III FINAL

LATHING AND PLASTERING
SPECIFICATIONS
RESIDENCE "A" (A)
A. BARNSDALL
HOLLYWOOD, CALIFORNIA

FRANK LLOYD WRIGHT
Architect
522 Holly Laughlin Bldg.
Los Angeles.

[Signature]

1210 7 19.04.30
LATHING AND PLASTERING

GENERAL CONDITIONS: All work described under this heading is subject to the general conditions hereto attached.

SCOPE OF WORK: All metal furring and all wood and metal lathing. All walls and partitions to be plastered inside and outside. Contractor to furnish all work, material, scaffolding, implements, tools and cartage for this work.

LATH WORK:
Wood lath: Pine or spruce free from sap or dead knots, well seasoned and full thickness, put on horizontally, breaking joints at maximum intervals of 2'6" on all laths, nailed at floor points with 3 penny fine 16 gauge nails. Lath 2'6" by 1'2" by 4'0" spaced 1'4" apart. Lath all ceilings and furring indicated as plastered and soffits of eaves and all partitions.

Metal corner Bands: All projecting corners, not protected by wood shall receive galvanized metal corner bands - example - "Berger".

Metal Lath: All outside lathing to be done with Coated Fabric or similar material to be approved by Architect. If metal lath is used same shall be galvanized and dipped in waterproof coating of approved type.

PLASTER WORK:
Materials:
Water: to be supplied by mason contractor.
Hydrated lime: First quality, free from impurities - example, Crown Marblehead Lime Composition.
Cement: Portland, conforming to standard specifications.
Sand: Clean, sharp, torpado sand, free from loam, coloring matter and dry ochre.

Fibre: To be goat or long cattle hair or Manila or coconut fibre, well beaten, soaked and thoroughly mixed into lime paste not less than 24 hours after slacking.

Mortar color: Mineral approved brand.

<table>
<thead>
<tr>
<th>INSIDE PLASTER</th>
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</thead>
<tbody>
<tr>
<td>Lime</td>
<td>1 bbl</td>
<td>200 lbs.</td>
</tr>
<tr>
<td>Case coat Sand</td>
<td>5 cu. ft.</td>
<td>15 cu. ft.</td>
</tr>
<tr>
<td>Fibre</td>
<td>2 bu.</td>
<td>16 lbs.</td>
</tr>
<tr>
<td>Lime</td>
<td>1 bbl.</td>
<td>200 lbs.</td>
</tr>
<tr>
<td>Finish Rough Face Sand</td>
<td>6 cu. ft.</td>
<td>18 cu. ft.</td>
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</tbody>
</table>
BASE COAT: Minimum thickness 1/4" over lath. Wet lath or tile thoroughly before application of mortar.

ROUGH FACE COAT: Minimum thickness 1/4" reded to true plane floated with carpet float. Applied as soon as first coat has sufficiently set.

HARD PLASTER: Kitchens, pantry, waal-robes, baths, powder room to be finished with Keene Cement or similar mortar.

OUTSIDE PLASTER:

FIRST AND SECOND COAT:
4 part lime
10 part Portland cement
8 part sand
Coloring matter as directed to any shade as approved.
Thickening of each coat from 1/4" to 1/2". All surfaces to be true and all corners straight and sharp.

This Contractor to cover all junctures at angles external or internal between tile or brick walls and wooden partitions and pipechases and openings in tile with metal laths. The flashing of the intersections between roof and walls to be covered with a 10" strip of metal lath to be securely fastened to the wall and extending between the roof sheets.

TILE WAISSCOTS:
All stud partitions which are to receive a tile wainscoting to be lathed with metal lath and to receive a scratch coat only.
All brick or hollow tile walls to be thoroughly wetted before first coat is applied.

COATS:
Interior plaster: Two coats for tile plus scratch coat for lathing.
Outside Plaster: Three coats for tile plus scratch coat for metal lath surfaces.

CAST CEMENT:
All exterior base courses, window sills, steps, copings and ornaments and all cast cement work to be furnished and set by other parties.

Patching:
Contractor shall do all required patching and leave the surfaces in a workmanlike manner, ready for decora-
tures, free from blemish.

RUBBISH:
Remove all rubbish from the buildings and deposit material where directed in vicinity.
PROTECTION:

This Contractor shall use extreme care in applying mortar to walls to protect floors, woodwork, etc., and shall immediately clean off with a rag, any and all splashes which may occur.

GUARANTEE:

This Contractor shall furnish a written guaranty warranting all plaster against peeling, checking or falling off for a period of one year from and after completion and acceptance of the work, that is date of final certificate and binding himself to repair and make good at his own expense any defective work that may develop within said period, which was caused by faulty workmanship.
CARPENTRY

SPECIFICATIONS

RESIDENCE (A)

A. BARNSDALL

HOLLYWOOD, CALIFORNIA

FRANK LAYD WIGHT
Architect
522 Homer, Langhin Bldg.
Los Angeles.
ROUGH LUMBER: Wherever rough lumber or timber is required for the construction of these buildings as for grounds, rough frames, floor strips, etc., the same is to be of sound weather seasoned merchantable California redwood, free from knotholes or other defects that would impair its strength or durability.

FULL SIZE DETAILS: Full size details will be furnished by the architect of all work as the work progresses. Illustrations, the work and all shop drawings made for the shop work shall be submitted to the architect for his approval before proceeding with the work.

ROOF FRAMING: As shown on detail. Provide proper pitch for drainage true to surface and line.

ROUGH FRAMES: Furnish and set in place 2" x 4" frames for all interior door openings in tile or masonry partitions.

GROUNDS: Furnish and properly put in where required 5/4" x 2" dressed grounds for the reception of inside finish throughout. On all brick walls these grounds are to be firmly nailed to the joints in masonry or blocks set in for the purpose where so directed. Furnish all wood brick required for openings in wall and have mason build in same. On all partition work, which is of ordinary 2 x 4 construction - 16" O.C., grounds are to be nailed to proper heights and the carpenter shall see that these are put in at the time of construction - true to surface and place. All necessary grounds for plumbing pipes and fixtures to be fastened to.

MILLWORK: All 4" x 4" outside finished woodwork including steps except as mentioned below to be of California redwood selected first quality dressed smooth, no knots larger than 1/4". All interior finished woodwork of living room, bedroom except servant's room, entrance room, and study to consist of selected red gum, white straights left in to be carried out as detailed. All case work, panel work, etc., shall be constructed of workmanship equal to cabinet work, using steel casing nails. All mill work shall be properly packed and protected for shipment to arrive (when specified by superintendent), after plastering has been completed and dry.

D-ORS: All solid doors to be single slab veneered doors with laminated pine core put together in the approved manner. Veneer to match trim and to be especially selected. All doors 1-1/4" thick. Outside veneer of exterior doors to be 1/4" thick. Wood stops for glazing in doors containing glass panels.


PARTITIONS: All inside Partition to be plastered, 2" x 3" - Wood stud partitions 3-1/2" thick over all. 6/3" grounds to be alternately placed to form true base for inside trim finishing nailed.
FLOORS: Rough floors for roof, and floors with wood and composition finish to be of 1" x 6" red cedar fencing pine or spruce surfaced one side laid diagonally.

Face flooring: Maple or Beech flooring to be of first quality white heart flooring 3/8" x 2-1/4" face M & D, butted ends, and bored for nails, in lengths from two to sixteen feet, and not over ten per cent (10%) to be under three feet long.

All hardwood flooring shall be laid level and true to a line, each piece well nailed to each strip or sleeper with 3d wire cut nails.

After floors are laid, they shall be thoroughly scraped, sanded, and varnished and left ready for the painters to finish.

STAIRS: Interior stairs: Maple same as floors, 1-1/8" threads 7/8"rigots" (Where shown)

Exterior stairs: Redwood 2" threads, 1-1/8"rigots.

PAPER: Before laying finished floors, this contractor shall lay one thickness of tissue linoleum sized floor paper under same; this paper is to be well lapped and smoothly laid.

SHELVES: Provide movable shelves for all cases and closets indicated and bookcases for all closets. Provide holes and grooves for movable shelves and prepare everything ready for the painter.

PROTECTION: After floors are laid and treated by the painter, this contractor shall cover the same with paper well tacked down, which papers are to be left and kept in repair until after all finish has been applied to the woodwork.

HARDWARE: This contractor shall include in his estimate the furnishing of all necessary rough hardware required in the construction of these buildings as nails, spikes, screws, anchors, etc.

The finished hardware will consist of locks, knobs, escutcheons, hinges, butt, etc., etc., further clothes hooks, toilet equipment for bathrooms and lavatories, in short, everything in the way of finished hardware necessary for a complete building of this sort.

The Owner will furnish the finished hardware thru separate contract, but this Contractor shall see to its delivery, shall check the quality and quantity of the shipments delivered to the building. He shall keep the delivered hardware under lock and key and be responsible for it. At the proper time he shall install the hardware in the building conforming to the instructions of the Architect.

KITCHEN COUNTERS: Counters in kitchens and pantry to be built up of 1-1/8" x 2-1/4 M & D Maple (clear) set in white lead fastened together with cleats.

FINALLY: The entire work to be done in a strictly first-class and workmanlike manner and in accordance with the drawings, specifications and full-size details, to the satisfaction of the Architect. This contract to include all screens, dressers, cases, cupboards, medicine cabinets, book cases, etc., which are built in and shown on drawings.
PLUMBING

SPECIFICATIONS

RESIDENCIA (A)

A. BARNSDALL

HOLLYWOOD, CALIFORNIA

FRANK LLOYD WRIGHT
ARCHITECT

622 ROGER LEAUGLIN BLDG.

LOS ANGELES.
PLUMBING

GENERAL CONDITIONS:

The specifications and drawings are intended to cooperate so that any works exhibited in the drawings and not mentioned in the specifications, or vice versa, are to be executed to the true intent and meaning thereof, the same as if both mentioned in the specifications and set forth in the drawings.

The contractor at his own proper cost and charges, except as specially herein otherwise provided, is to furnish all labor and material, scaffolds, apparatus, utensils and cartage of every description needful for the proper performance of the work.

All material and workmanship mentioned is to be of the kind and quality specified. Quality of all work and material not specified is to be in accordance with that of adjacent labor and material.

Material, the work of which is especially designed, must be as specified. No substitute will be allowed, except upon a written order properly signed.

The contractor is to cover and protect his work and material from all damages, delivering the whole clear and in perfect condition upon completion of the work.

The contractor is to give the proper authorities all requisite notices relating to the work under his charge and is to pay all fines in connection therewith.

All materials and workmanship throughout must be constructed and installed in accordance with the rules and regulations of the City ordinance of Los Angeles.

SUPERVISION:

This contractor will furnish, in addition to all skilled and unskilled labor necessary to the execution of the work, a competent foreman who will be in general charge of the work for the contractor.

TEST:

On completion of the plumbing and sewerage installations, and before any back filling or covering up is started, all work shall be thoroughly tested, and shall meet with the approval of the architect and be passed by the city plumbing inspector.
SEWER: The sewer system shall consist of standard cast iron mains within the building and of vitrified pipe outside of the buildings and shall be of the proper size and type to seat all fixtures installed, and shall be carried from the residence and garage to a point indicated on the plans. Future provision will be made for sewer main from this point to street sewer.

VENTS AND WASTES:
All vents and wastes shall be properly constructed to meet the requirements of the city ordinance.

Before cutting vents thru roofs, consult architect for details covering location and proper housing for same.

REFRIGERATOR WASTE:
Provide and install a 1-1/2" refrigerator waste.

WATER MAINS:
Provide 1-1/2" galvanized iron water mains from residence and garage to point as located on plans, 20'-0" from kitchen water connections will be provided to street under separate contract.

WATER SYSTEM:
A 1-1/2" water main system shall be installed and provided for all water closets and connected directly to the sewer main.

A separate waste pipe system to be installed in garage and provided with 2" waste to residence main.

GAS MAINS:
A gas main to provide for one (1) gas hot water heater to be furnished and installed at cellar of garage as indicated on plans.

GAS HOT WATER HEATER:
Hot water heater to be furnished and installed as follows:

One (1) 75 Ruud Heater to be located in [location]
FIXTURES:

General Notes:
The following specifications are to act as a guide for the size, type, kind and number of fixtures required. Fixtures, the equal of those specified but of other manufacture may be substituted if acceptable to the architect and owner.

PRINCIPAL BATH:

Bath Tub:
Turner Co. TM-1515 five foot six porcelain enamel tub for recess, 3-1/2 inch flat rim for tiling, fitted with concealed compression supply valves with china crescent arm handles, china wall escutcheon, low bell supply.

Shower:
Portable spray head affixed to extra center connection at tub faucet. Red rubber hose 5' 0" long.

Lavatories:
Turner Co. L-1 20x24 Hadbury vitreous china straight front lavatories with square bowls and integral supply nozzles, self cleansing overflow feature, hooded overflow and anti-splash rim, fitted with pop up waste and china knob, compression supply valves with china crescent arm handles, china escutcheons, nickel plated soap and brass trap to wall.

Toilets:
Turner Co. T2-3060 Artiston wall-hung syphon jet toilet with extended lip and cut back rim, fitted with nickel plated flush valve §917-1/2 Pyralin closed front seat and cover.

SERVANT'S BATH ROOM:

Bath Tub:
One Turner Co. TM-1505 1-1/2 five-foot porcelain enamel tub, for corner or recess, 3-1/2 inch flat rim for tiling, fitted with §18 Republic quick compression bath cock with china front handle, nickel plated supplies, nickel plated waste and overflow.

Lavatory:
One Turner Co. T2-321 17x21 porcelain enamel lavatory with apron and depressed soap dish, fitted with §6 Republic compression basin cocks with china index handles, nickel plated shut-off valves, flanges, nickel plated supplies, nickel plated soap brass trap to wall.
Toilet:

One Turner Co. C-1 Model toilet, vitreous china
orphan action wash down bowl fell vitreous china plain grip tank, china handle operating lever,
clavier high pressure ball cock, nickel plated
flush elbow, nickel plated shut-off valve, supply
pipes and flange. Olinex Pyralin finished seat and
cover, closet bureau and washers.

Kitchen:

One Turner Co. TX-1150 20x26 porcelain enameled
flat rim sink with strainer, fitted with combination
swinging spout, fitted with china handles, nickel
plated east brass trap.

Basement:

Laundry

Two Turner Co. TX-1276 porcelain enameled laundry
trays with hardwood wringer holder and adjustable
iron pincas, fitted with nickel plated stub tray
bibs, nickel plated tray waste and trap to wall.

Toilet:

One Turner Co. TX-655 17x17 in. wall, same as
described in Servant's Bath Room.

Meat Rack:

One stainless steel rack for garage.

Sink

Provide one sink for garage.
SPECIFICATIONS

RESIDENCE \langle a \rangle

A. BARNSDALL

HOLLYWOOD, CALIFORNIA

Frank Lloyd Wright
Architect
522 lancy Laughlin Bldg.
Los Angeles.
SHEET METAL WORK

All work described under this heading is subject to the "General Conditions" hereto attached:

SCOPE OF WORK: All sheet metal work mentioned below or shown on plans to be furnished and set in place properly to the satisfaction of the Architect.

DORR SPOUTS: Interior conduits will be installed by plumber but this contractor shall make all connections to them by means of conical waterheads formed of 16 oz. soft rolled copper of 1/4" Min. Turn copper coat on roofs not less than 1/4" beneath cap sheet of composition. Each waterhead to receive a protective basket of 10 copper wire. All spouts leading from roof to roof to be made of 16 oz. copper of about 3" diameter. Fitting and basket as above.

FLOWER BOXES: All flower boxes except the ones on the ground to receive a removable watertight lining of heavy galvanized iron, as per detail.

SKYLIGHT: Furnish and install metal frames for skylights as per detail. And provide galvanized iron flashings to be built in by carpenter or mason, where and when required.

ROOFING

All work described under this heading is subject to the "General Conditions" hereto attached.

SCOPE OF WORK: All roof surfaces of the residence, and balconies.

ROOF MATERIAL: Felt saturated wool roofing felt weighing not less than 16 lbs. per 100 sq. feet, single thickness.

Pitch to be best quality of straight run coal tar pitch, distilled direct from American coal tar and not less than 200 lbs. per 100 sq. feet of roof shall be used.

The gravel or slag shall be clean and none of its material shall be larger than 5/8" nor smaller than 1/4". At least 200 lbs. of slag or 400 lbs. of gravel shall be used per 100 sq. feet of roof.

APPLICATION: In case of roof boards lay one thickness of unsaturated felt weighing not less than 8 lbs. per 100 sq. feet. In case of concrete roof slab lay entire surface with hot pitch. Then lay two thicknesses of roofing felt lapping each sheet 17" over the preceding one and napping back with pitch the full notch of lap. Spread a uniform coat of pitch over the hole and add three full thicknesses of felt as before making the lap.
22°. Spread a uniform coating of pitch over the whole surface, into which while hot inbed the gravel. All joinings to walls and rails to be made by turning the roofing up at least six inches and securing it in place by wooden laths nailed to steel or wood blocks. All railings around roof to be covered entirely with the first two ply of the roofing reaching down 6" on the outside of the wall, and being securely held in place.

Canvas Cover: All roof surfaces marked in plans shall receive a covering of one layer of 15 oz. Canvas Roofing canvas instead of the clay or gravel. The canvas to be sewn together by means of felled seams in order to cover each given roof surface with one continuous piece. The edges to be securely fastened with galvanized iron nails and redwood strip on the raised portions of roof.

Guarantee: Roofing to be guaranteed in writing for a period of five (5) years.

GLAZING

Sheet Glass: All windows and doors, both interior and exterior with exceptions enumerated below, to be glazed with first quality double strength cylinder glass. All glass is set in wood stops. Exterior lights to be well pitted.

Laid Glass: Wherever shown on plans and especially openings in screens to be glazed with panels of laced glass using nine bars according to design. No colored glass will be used.

Mirrors: One bathroom door and two bedroom doors to receive mirrors about 30" x 16" in size. Each bathroom will have a mirror in the door of the medicine cabinet or above wash hand according to design. Mirrors to be of patent back type 24 x 24".

Protection: All glass shall be protected and all glass broken and damaged until building is finished shall be replaced at this contractor's expense, unless he can obtain reimbursement from the damage agent.

General Conditions: All work described in this specification is subject to the general conditions hereto attached.
PAINTING AND DECORATION

SPECIFICATIONS

RESIDENCERESIDENCE

A. BARNSDALL

HOLLYWOOD - CALIFORNIA

FRANK LLOYD WRIGHT

Architect

522 Hope Laughlin Bldg,

Los Angeles.
PAINTING AND DECORATION

GENERAL CONDITIONS: All work described under this heading is subject to the general conditions hereto attached.

WORK REQUIRED: The work required under this branch of the specifications will comprise the waxing and polishing of all woodwork inside and one coat of stain of approved type and color outside of all exposed trimmings, the painting of all metal work except where same is specified as bronze or copper and the wax staining and decorating all walls below the ceiling moulding. All woodwork throughout the building to be hand painted one coat at the mill, all by painting contractor. The ceiling and walls about the picture rail are to be left natural-plaster stained in the box before applying same by plastering contractor.

MATERIAL AND WORKMANSHIP: All materials used in the performance of this work are to be of best quality and including those used for priming, is to be pure white lead of approved and guaranteed brand and pure linseed oil. All subject to architect's approval. All tinting colors to be oil ground, permanent non-fading pigments. Shellac is to be of best quality orange shellac, except that in case of natural wood finish, white shellac is to be used. All varnishes to be high-grade, transparent and elastic, and of a guaranteed brand of established reputation. All materials used to be delivered to the buildings in original unopened packages and sealed are to be left unbroken until packages have been inspected and approved. All work must be guaranteed by the painter for a period of one (1) year free from defects or deficiencies caused by the use of imperfect materials or faulty workmanship. In case of such defects appearing within said time, the painter will be held to repair all such defective work, together with the adjacent work affected thereby.

Clean off all woodwork before treating. Cover all sap, knots and defects in woodwork that are to be painted, with shellac and putty all nail holes, crevices etc., after priming. The priming coat of all wood painting is to be a thin coat composed solely of white lead and linseed oil, and must be well worked into the grain.

EXTERIOR WOODWORK: All outside woodwork to receive one coat of creosote stain. Example: "Cobalt light copper green" or prepared of a mixture of 5 parts Creosote and 4 parts of the color pigments ground in oil to up to approved shade.

INTERIOR WOODWORK: Interior trim throughout shall be well sandpapered and cleaned to remove all soil and grease marks. Apply coat of hot wax evenly with a full brush and let dry at least two days. Fill all holes with putty matching the finish perfectly. Rub well after the wood has absorbed the stain with sheepskin or waste to smooth dead polish.
FLOORS AND INTERIOR STAIRS: To be cleaned and to receive one coat of white shellac and one coat of Johnson's prepared floor wax, rubbed to polish with weighted brush.

METAL: All exposed metal except brass and copper to receive two coats of best grade superior graphite paint or equal, and one finishing coat of paint as approved by Architect.

BACK PAINTING: All interior hardwood finish throughout shall be thoroughly painted one coat on back before being applied in place. This work to be done at the mill where same is manufactured.

WALLS: Plastered walls and ceilings below picture rail throughout to be stained one coat with transparent stain (except as mentioned above) - mixture of boiled linseed oil, turpentine and melted beeswax, colored with oil ground pigments as directed, applied with brush in one coat. Pantry, kitchen, slop sink, closets, baths and wardrobe, to be sized and to receive two coats of lead and oil of light ten color.

BATH ROOMS: All will be delivered to the building ground smooth, and the painter shall then paint same with three coats of lead and oil and one coat of enamel.

ROOFS: All roof or balcony surfaces covered with canvas to receive two coats of lead and oil.
ELECTRICAL

SPECIFICATIONS

RESIDENCE (A)

A. BARNSDALL

HOLLYWOOD, CALIFORNIA

FRANK LLoyD WRIGHT

ARCHITECT

522 Honore Laughlin Bldg.,
Los Angeles.
ELECTRICAL

GENERAL CONDITIONS:
The owner reserves the right to reject any or all bids.

The specifications and drawings are intended to cooperate so that any works exhibited in the drawings and not mentioned in the specifications, or vice versa, are to be executed to the true intent and meaning thereof the same as if both mentioned in the specifications and set forth in the drawings.

The contractor at his own proper cost and charges, except as specially herein otherwise provided, is to furnish all labor and material, scaffolds, apparatus, utensils and cartage of every description needful for the proper performance of the work.

All material and workmanship mentioned is to be of the kind and quality specified. Quality of all work and material not specified is to be in accordance with that of adjacent labor and material. Material, the kind of which is especially designed, must be as specified. No substitute will be allowed, except on written order, properly signed.

The contractor is to cover and protect his work and material from all damage, delivering the whole clean and in perfect condition upon the completion of the work.

The contractor is to give the proper authorities all requisite notices relating to the work under his charge and is to pay all fees in connection therewith.

All material and workmanship throughout must conform in every way to the 1920 rules of the National Board of Fire Underwriters and the Los Angeles Electrical Department, and a certificate of inspection must be delivered to the owner before the final payment is made.

DRAWINGS:
Contractor shall submit for approval detailed drawings of the distributing cabinets before proceeding with work.
The approximate location of mains, feeders, cut-out cabinets, plugs and light outlets, switches etc. are indicated on the wiring plans.
The plans are not intended to give complete and accurate details in regard to location of apparatus. Exact locations are to be determined by reference to the general drawings and by actual measurement of the building.
The contractor must examine thoroughly the general building plans, and also the heating and plumbing plans, and run his conduits in such a manner as not to interfere with the work of other contractors.

Contractor will be required to install conduit boxes etc. from time to time as work in the building progresses in order not to delay the work of other contractors.

SUPERVISION:

The contractor will furnish, in addition to all skilled and unskilled labor necessary for the execution of the work, a competent foreman who will be in general charge of this work for the contractor.

SYSTEM OF WIRING:

The building to be equipped with the "Three-wire System of Feeders and Sub-feeders" and "Two-wire Distributing Circuits" throughout, calculated for 110-220 volt service.

No more than ten (10) 60 watt lamps shall be placed on any one branch circuit, or the equivalent of the same in case tungsten lamps are used.

PERCENTAGE LOSS:

The percentage loss in the entire system shall not exceed 1/2 in the feeders and sub-feeders and 1/4 in the branch circuits, making 2% over all.

Calculations to be based on the 60 watt lamp.

TEST:

On completion of the electrical wiring it must be test free from short circuits and grounds and have an insulation between conductors and ground (not including fixtures) of not less than one megohms for each tap circuit and 50,000 ohms over all with cut-outs and safety devices in place.

ELECTRICAL WORK:

This specification is intended to cover a complete system of electrical work for all light and power wiring, telephone, busser and bell wiring; the installation of outlet boxes, cabinets, panel boards, switchboards, bells etc., necessary to make a complete installation for the intended service.
CONDUIT AND OUTLET BOXES:

The general system of wiring shall consist of a complete system of black enamel conduit for all feeders, sub-feeders and branch circuits; which will first be installed with all junctions, pull corner and outlet boxes, couplings, elbows, etc. before any wires are drawn in.

The whole conduit system will be installed right. The conduit must have smooth interior; be free from burrs or sharp points, with non-corrosive lining at least 1/32" thick, and must have the trade name or initial clearly stamped thereon, and must be continuous from outlet to outlet. The single tube system shall be employed throughout.

All conduit shall be run concealed in the masonry walls, partitions or floors of the building, and all conduit must be built in when the walls and partitions are in the course of erection as no cutting will be allowed.

The same will apply to all junctions, cut-outs, switches and other boxes, which must be securely fastened as if built in and to the satisfaction of the architect.

No wood or other inflammable material is to be used in securing the boxes.

Pull, corner, junction or outlet boxes must be provided in long runs whether of feeder or distributing circuits, to facilitate the drawing in of the wires and the prevention of damage to insulation of wires in so doing.

All conduit where more than four elbows are necessary must have pull boxes inserted and all turns must be made so that the curve of the inner edge will not be less than 5-1/2" in the least case.

The tube must be protected from mechanical injury by the contractor wherever it is liable to occur, and only the heavy wall, or standard Underwriters Laboratories specifications on thickness of conduit will be used.

Conduit of sufficient size are to be used throughout to permit of wires being redrawn and re-inserted for inspection, without damage being done either to the conduits or wires.

If required by the architect any wires may be taken out and re-inserted for inspection.

All boxes must be galvanized or protected by a永不着色 painting process, similar to that employed in the iron conduits.
All ends of conduits must be cut square, rounded cut smooth and connected butt to butt in couplings, so as to form perfect continuity.

The conduit system must be permanently grounded.

All terminals of conduits entering boxes of any description shall be furnished with locknuts on the outside and bushings on the inside to lessen the damage of abrasion on drawing in of the wires.

After installing the conduit system complete, as a whole, and after the plaster work is finished and the building is thoroughly dry, and not until then, wires and cables will be drawn into same.

**LIGHTING AND POWER WIRING**

All wires shall be G.E. red core, or equal, new code D.E. R.C., as per rules of the National Board of Fire Underwriters. Samples of wires must be submitted to the architect for approval and left for comparison with the wires to be installed before the contract is signed.

No smaller than §14 B & S gauge will be used and all wires of §6 B & S gauge, or larger, must be stranded.

Wiring shall be the three-wire system. All circuits than (10) lights, or over, to be wired from panel board with not less than §14 wire.

**PANELBOARDS:**

Furnish and install the distributing boards shown on plans.

Each tablet board to have mounted thereon a triple-pole fused knife switch for each circuit. Provision must be made on each board for two (2) extra circuits with fuse studs and double-pole knife switches.

All switches must be neatly and permanently lettered-designating the lights controlled.

**PANEL CABINETS:**

Regular panel to be of the same construction as lighting panel.

Location of all panels to be approved by the architect.

**HALL SWITCHES:**

All ceiling lights shall be controlled by "R.H." or equal, push button switches. Switch plates shall be furnished to match the surrounding hardware in each room.
BASE AND FLOOR RECEPTACLES:
Where shown on plans, furnish and install "R.F." or Edison Flush Type Receptacles. All receptacle plates must match the switch plates.

ELECTRIC HEATERS:
Contractor shall furnish and install electric heating units. G.E. Space Heater unit (Cutler & Hammer Mfg.), where located and called for in plans, and of such capacity as to heat all rooms properly in residence and garage.

Heating units to be properly insulated and set in galvanized iron boxes, fast into side walls or as detailed.

Switches shall be provided to control heaters.

Fresh air intakes and dampers as well as metal screens for heating units will be furnished and installed by other contractor.

All heaters located in Cast room, Owner's rooms, Chief's room, Nurse's room and Servants' rooms to be operated by snap switches located adjacent to the heaters themselves, as well as being controlled by knife switches on the panel boards.

All heaters in Living rooms to be controlled from panel boards as indicated on plans.

METERS:
There will be one meter for all lights in the residence and one meter for heating receptacles.

Meters to be located in laundry where directed.

MAIN SERVICE FEED:
From transformer vault run two 2" conduit under ground to main switch in laundry to meter location and provide meter loops for both light and power.

PUBLIC TELEPHONES:
From telephone outlet on first floor run 3/4" conduit to outlet in Owner's room, as directed.

Outlets to be complete with necessary outlet box and flush covers as directed.

All wiring for telephones to be installed by telephone company.
BELLS AND APPLIANCES:

Furnish and install in Servant's dining room, where directed 1-8 point electric reset Edwards or DeWaan flush type annunciator.

Annunciator to be finished to match woodwork in Servant's dining room. All wiring for bells and annunciators to be #16 rubber covered installed in conduit, same as for lighting, all bell push buttons to be of design selected by architect.

GUARANTEE:

Guarantee the entire installation as outlined in these specifications for a period of one (1) year from date of completion.

FINALLY:

These plans and specifications contemplate a complete system of wiring delivered and erected in place, ready for the intended service, and subject to the approval or rejection of the architect.
ADDITIONAL TO SPECIFICATIONS FOR RESIDENCE A-

PLAIN AND REINFORCED CONCRETE WORK

FLOOR FINISH: Use 1:2 mix.

FLOORS ON GROUND: Use sand cushion instead of cinders. Concrete floors on ground shall be 3" thick. Omit concrete floor in front of servants' room.

MASONRY:

FIREPLACES: Omit Dampers.

CARPENTRY:

MILLWORK: All outside finished woodwork shall be Redwood, except sash, which will be Sugar pine. Entrance door to be Red gum. All interior finished woodwork of living room, dining room and bedrooms to be Red gum, white streaks left in. Servants' rooms and basement shall be finished with Oregon pine. Doors of servants' rooms may be 5 panel doors. All other doors one panel. Millwork otherwise as specified.

Shoe rails in closets and on cement floors to be made of 3/8" x 7/8" lumber.

SCREENS: All window screens to be fitted with galvanized flyscreens.

HARDWARE: Include finished hardware in contract, and submit samples for approval. All hardware to have brass finish.

ROOFING: Composition roof shall be 3 ply. Use Malthoid or equal top sheet instead of canvas.

COMPOSITION: Kitchen counters to have composition tops.
steel angles - size of structural or reinforcing steel variable with load and span, or concrete reinforcing as above maybe used instead.

Floor Beam Bearings: These slabs shall also be used for working up to levels and story heights when the full or fractional tile do not work out correctly or the proper bearing may be provided by casting solid concrete beneath the beams in place.

Rafter Plates: Embedded in cement grout in two upper courses of wall at intervals of five feet 3/4" bolts twenty four-inches long. Bolt to project six inches above the top of the wall to allow of plate being fastened down with nuts, washer shape is necessary in the judgment of the Architect or his representative.

BRICK: No common brick should be used for the plastered wall surfaces unless the joints are deeply raked out and surfaces plastered are thoroughly water-proofed top and sides with hot asphalt or R.I.W. waterproofing compound and approved damp proof courses shall be provided and built in at the grade in all walls.

CARE STONE: Build in properly all stonework shown on plans. Furnish necessary anchors.

CHASES: Wherever indicated or required, the mason shall build chases in the wall for pipes, etc., to accommodate the work of other mechanics.

WOOD BLOCKS: Build in all wood blocks for fastening frames, jams, grounds, trim cornices, and plumbing fixtures.

FIREPLACES: Fireplace linings shall be laid up in best quality fire brick in fire clay. Furnish and set with each fireplace, the necessary iron plate consisting of angle irons, also a 50" wide flue head and damper similar to those manufactured by the Colonial Fireplace Company of Chicago or an equivalent approved by the Architect. All fireplaces to be built by expert masons who understand the building of fireplaces. The work will be done under special instructions from the Architects.

BREECH: The mason contractor shall keep the premises as clean as possible during the progress of the work and shall make removal of accumulated rubbish when directed.

WATERPROOFING: In addition to waterproofing already specified, all wall surfaces whether tile, stone or concrete which are to be in contact with the ground and especially the inside of all floor boxes shall receive one coat of R.I.W., waterproofing or satisfactory equivalent. The waterproofing to be applied at any time during which the wall surfaces are accessible before the back filling is done. This does not include footings and concrete walls which are cast into trenches without forms. The waterproofing materials to be applied with a brush with sufficient force to fill all crevices and completely cover the surface. The material shall be used pure and undiluted; one gallon to cover not more than 90 sq. feet.


**BATH TOILET:** PROVIDE ROUGHING IN FOR ONE TOILET
(TO BE INSTALLED LATER) IN BASEMENT NEAR GARAGE.

**SILLCOCKS:** PROVIDE 2-3/4" SILLCOCKS WHERE INDICATED.

**BATH TUB:** BATH TUBS TO HAVE OVERFLOW SUPPLY VALVE.
TUB SHALL BE FIVE FOOT LONG.

**TOILETS:** TOILETS TO BE OF TYPE SIMILAR TO
STANDARD'S EAPULSO--PLATE F38568 WITH EXTENDED LIP AND
OPEN FRONT SEAT. TANK SIMILAR TO PLATE 932578. OTHERWISE AS SPECIFIED.

**LAVATORIES:** SIMILAR TO STANDARD--PLATE F3646E S.
OTHERWISE AS SPECIFIED.

**SERVANTS BATH:** BATH TUB SHALL BE 4'6" LONG.

**SERVANTS TOILET:** SAME AS OTHER BATHROOM.

**PERMIT SYSTEM:** ALL WATER EXCEPT FOR GARAGE AND TOILETS TO BE SOFTENED BY TREATMENT, THRU AN APPROVED AND
APPROPRIATE SIZED PERMITIT SYSTEM.

**GAS HEATING:** PROVIDE AND INSTALL COMPLETE 6 GAS-
HEATERS, TYPE "LITTLE GIANT GAS AIR HEATER" TO HEAT THE
HOUSE.

**ELECTRICAL WIRING:**
OMIT ALL POWER WIRING AND ALL ELECTRICAL HEATERS, EXCEPT
THAT ONE BASE PLUG FOR A SMALL HEATER SHALL BE PROVIDED IN EACH
BATH TUB.
PLAIN AND REINFORCED CONCRETE WORK

SPECIFICATIONS

RESIDENTS (A)

A. BARNSDALL

HOLLYWOOD, CALIFORNIA

Finally revised 1926

FRANK LLOYD WRIGHT

Architect

522 Raymond Laughlin Bldg.

Los Angeles.
PLAIN AND REINFORCED CONCRETE WORK

GENERAL CONDITIONS: All work described under this heading is subject to the general conditions here to attached.

WATER: This contractor shall, at his own expense, make connections to the present water supply on the premises to such points as he may require, so as to facilitate his work.

PRIVY VAULTS: This contractor shall build and maintain in a sanitary condition, a privy vault on the premises for the use of the men. When directed by Architect, contractor shall remove privy vault and fill in holes with earth.

IN GENERAL: It is understood that the contractor shall furnish all material and labor necessary to complete the plain and reinforced concrete portions of the complete building. The following specifications are intended to describe and specify the quality of material and labor to be furnished. It is also intended to outline the more important parts of the concrete work. All portions of the work not directly mentioned are to be constructed by this contractor in a manner equal to the parts specified.

MATERIALS: All materials furnished are to be the best of their kind and the following material specifications are to be taken as a general guide. The architect will cooperate with the contractor in obtaining the best possible material from the immediate neighborhood of the building site; but variations from the grade established by the following material specifications are to be under the control of the architect.

Cement: Portland cement conforming to standard specifications.

Sand: Clean, sharp coarse sand, free from clay or organic matter, stone or gravel.

Cinders: Cinders used in this work must be clean clean-soil cinders and of sufficiently good quality to make a durable concrete. Cinders to be thoroughly soaked before using.

Concrete: Mixing to be done with concrete mixer approved by architect. Ingredients to be carefully proportioned and mixed.

Proportions: Above grade Cement: Sand: Gravel: 1:2:4
Below " " " " 1:2:6:5
Under concrete " " Cinder 1:2:5:

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FORMS: All forms and form work are to be cut out of sound lumber, free from knot-holes or loose knots, surfaced one side and two edges, excepting in connection with surfaces that are to be plastered, in connection with which only the edges of lumber are to be surfaced. All forms are to be erected true to a line and level and are to be thoroughly clamped and braced so as to prevent all sagging and bulging. Should sagging and bulging occur, it shall be optional with the Architects to order work removed and replaced. All forms shall be thoroughly watered immediately before concrete is placed.

REMOVAL OF FORMS: The contractor shall be solely responsible for any damage resulting from premature removing of forms. The Architects reserve the right to prevent removal of forms in any case, but their permission to remove them does not include the responsibility for any accidents resulting from their removal.

After the forms have been removed, sufficient temporary bracing shall be installed to thoroughly protect the work from any possible injury.

SLAB SETTING: The reinforcing steel is to be placed in and on the forms accurately, in accordance with the requirements of the drawings, and is to be carefully wired and blocked in order to insure its proper placing in the completed work. Should reinforcement become misplaced while the concrete is being poured, the work must be stopped, the concrete removed and the steel properly set.

HANDLING OF CONCRETE: All concrete must be carried from the mixer to the forms in the shortest possible time. No concrete that has been mixed more than one hour shall be used under any circumstances. When concrete is placed, it shall be thoroughly alined and spread to remove all air and water pockets and after same is brought up to the finished level, it shall be sufficiently worked to produce a dense, solid concrete. Concrete must be wet enough to avoid the necessity of tamping.

FLOOR FINISH: Whenever finished concrete floor surfaces is called for on plans, same shall be constructed as follows:

The finished surface must be constructed at the same time and as a part of the main slab. The finishing material must be made of a mixture of

1 part cement
× 1-1/2 parts sand

and it shall be very carefully floated and troweled to a smooth, hard surface and thoroughly incorporated in the slab concrete. It shall in no case be laid
More than three (3) hours after the slab concrete is deposited. The finish must be especially guaranteed and must be replaced if it proves defective at any time within one (1) year after completion. The thickness of the finished coat must be at least 5/8" and the thickness of the finish is to be included as part of the total slab thickness.

COOPERATION: The contractor must conduct his work in such a way as to cooperate with all other branches of the construction for the purpose of securing the best results for the Owner. He shall work in harmony with the mason contractor to assure the proper bonding of the concrete with the masonry; and the two contractors shall conduct their operations as not to interfere to the least possible extent with each other. Other contractors shall be given every opportunity to install sleeves, grounds, conduits, etc. in the form and this contractor shall very carefully enclose some in the finished concrete work.

The Architect's representative shall have final jurisdiction with regard to any disputes arising between contractors.

WATERING OF CONCRETE: During warm and dry weather, the finished concrete work shall be thoroughly soaked with water from time to time, in order to assist in the proper setting and hardening of the concrete.

FLOORS ON GROUND: Wherever concrete floors are called for bearing directly on the soil, same are to be constructed as follows:

The earth surface to be carefully leveled, rolled and tamped to a smooth, compact, hard surface. A cushion of cinders or similar sub-base not less than 2" thick after tamping, is to be spread over the ground and a concrete floor not less than 2" in thickness is to be placed on this foundation. Water shall be used liberally in leveling the earth and in leveling the surfaces. If cinders are unavailable, then crushed stone or gravel is to be used to form the cushion. Where composition finish is called for a 4" layer of cinder concrete is to be substituted for the concrete floor.

CURBS AND FÖÖMS: To be executed in reinforced concrete as per details. Concrete in pool Area to be waterproofed by integral method. (Corrosit or similar). Drains and supply openings to be properly embedded to completely drain the surfaces.

RUBBISH: The concrete contractor shall keep the premises reasonably clean during the progress of the work, and shall make removal of accumulated rubbish when directed.
MASONRY

SPECIFICATIONS

RESIDENCE (A)

A. BARNSDALL

HOLLYWOOD, CALIFORNIA

[Signature] [Date: Jan 7, 1920]

FRANK LLOYD WRIGHT

Architect

Los Angeles
GENERAL CONDITIONS: All work described under this heading is subject to the general conditions hereeto attached.

MATERIALS: Materials heretofore called for shall all be of the kind specified. If the locality affords a supply of materials differing from those specified but equal in quality, the same may be used upon the approval of the Architect.

ARCHITECTURAL TILES: Furnish all ash doors, cupboards, wood blocks for window frames and outside and inside doors and set them properly.

STRUCTURAL TILES: Furnish all necessary steel beams, anchors etc. and set same properly.

HOLLOW TERRA COTTA TILE WORK:

General: Provide and erect all hollow tile exterior bearing walls of hard burned tile, true and regular in size, manufactured of such design that all webs and shells are in direct compression when laid in the wall. The shells shall have all faces secured with special dovetail securing to offer a good surface for the mortar finish. Tiles cracked or broken on the outside shells will be unacceptable under this specification. If tiles are unobtainable hollow brick may be used or a construction of ordinary brick laid up hollow.

Laying: All tile used in the exterior walls and non-bearing partition walls must be laid with the hollow or voids vertical in the walls, but a generous air space shall be left in the center of the walls by battering the two edges of the tile either before or after it is set in the wall. Exterior sub-division, non-bearing partition tile may be laid on edge if desired. Care must be taken that the top of all unfinished walls are thoroughly covered or protected against stormy weather.

Mortar: All mortar used for laying up the hollow tile shall consist of a standard portland cement and clean sharp sand in the proportion of one part cement to three parts sand, will mixed to a smooth, moderately stiff mortar. Mix not to exceed 10 per cent of the cement by volume will be allowed in the mortar.

Lintels: Openings not exceeding 5'-0" in clear span may be spanned with 8" X 6" arch lintel tile or with 8" X 4" tile reinforced with rod in lower calls and filled solidly with concrete.

Openings over 5'-0" in clear span to be spanned with reinforced concrete girder faced with tile, or with
from and about the building, and all tools, scaffolding and surplus materials, and shall leave his work thoroughly cleaned and ready for use. In case of dispute the Owner will remove the rubbish and charge the cost of the work to the Contractor, pro rata.

PROTECTION OF WORK:

The Contractor shall cover and protect his work and materials from damage by the elements, or from any other cause.

REPAIR OF DAMAGES:

The Contractor shall, at his own expense, make good to the Architect's satisfaction, any damage to his work from the action of the elements.

CUTTING, FITTING AND DIGGING:

The Contractor shall do all cutting, fitting or patching of his work that may be required to make the several parts come together properly, in accordance with the specifications, details and general drawings. But the Contractor shall not endanger the stability of the structure or any part thereof by cutting, digging or otherwise, and shall not in any way cut or alter the work of any other contractor except with the consent and under the direction of the Architect, who shall assess the cost of same. The Contractor shall reimburse other contractors for any damage he may do to their work by cutting, digging or otherwise in all cases not authorized by the Architect, and the cost of such damages shall be assessed by the Architect and deducted from any amounts due or to become due the Contractor under this contract.

ACCIDENT INSURANCE:

The Contractor shall maintain such insurance as will adequately protect himself and the owner from claims for damages for personal injuries, arising directly or indirectly from operations under this contract, and he shall be liable to the Owner for failure to maintain such insurance.

Bond
SPECIFICATIONS
for furniture and decorating of
Residence A and B
Frank Lloyd Wright, Architect

The furniture to be made according to design and
schedule marked on plan. Beds to be provided with Royal
blue box springs including 3 piece covers, custom mattresses
covered with canvas tick as box springs and 24" square pillows
all goose feathers covered with canvas tick as mattresses.

Both living rooms, dining room and libraries
(including stair runner with pads in "A") shall be provided with
shetilla rugs as per sample and size marked on plans.

Bedrooms to be provided with felt rugs as per
sample and sizes marked on plan.

Furthermore provide the following furnishings for
kitchen and servants room, as per selection of Architect.

Residence A.                Residence B
Kitchen                   Kitchen
Ice box                   Ice box
Gas Range                 Gas Range

Servant's Room            Sleeping Porch and Servant's Rooms
1 bed                     4 beds
1 Dresser                 2 Dressers
2 Chairs                  8 Chairs
1 Rug                     2 Rugs
1 Table                   2 Tables

Portieres, according to samples, shall be supplied
as indicated on plan and shall be wide enough to
draw completely across window or door openings. Hung on
Imperial track.

All living room and bedroom windows and main doors
to receive window curtains.
All windows and mesh doors to be provided with white Holland shades.

All work to be executed in a first class way to meet the approval of the architect.
APPENDIX N

INDIVIDUAL ROOM SURVEY
<table>
<thead>
<tr>
<th>Floor: First</th>
<th>Room: 101 Entry Hall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classification: Primary</td>
<td></td>
</tr>
<tr>
<td>Option A Reuse: Reception Counter</td>
<td></td>
</tr>
<tr>
<td>Option B Reuse: Reception Counter</td>
<td></td>
</tr>
<tr>
<td>Treatment Method: Preservation</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Floor: First</th>
<th>Room: 102a Living Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classification: Primary</td>
<td></td>
</tr>
<tr>
<td>Option A Reuse: Semi-permanent Interpretive Displays</td>
<td></td>
</tr>
<tr>
<td>Option B Reuse: Semi-permanent Exhibits</td>
<td></td>
</tr>
<tr>
<td>Treatment Method: Restoration</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Floor: First</th>
<th>Room: 102b Living Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classification: Primary</td>
<td></td>
</tr>
<tr>
<td>Option A Reuse: Rotating Interpretive Displays</td>
<td></td>
</tr>
<tr>
<td>Option B Reuse: Rotating Exhibits</td>
<td></td>
</tr>
<tr>
<td>Treatment Method: Restoration</td>
<td></td>
</tr>
<tr>
<td>Floor: First</td>
<td></td>
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<tr>
<td>----------------</td>
<td></td>
</tr>
<tr>
<td>Room: 103 Study</td>
<td></td>
</tr>
<tr>
<td>Classification: Secondary</td>
<td></td>
</tr>
<tr>
<td>Option A Reuse: Office (private)</td>
<td></td>
</tr>
<tr>
<td>Option B Reuse: Office (private)</td>
<td></td>
</tr>
<tr>
<td>Treatment Method: Preservation</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Floor: First</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room: 104 Former Bathroom</td>
</tr>
<tr>
<td>Classification: Tertiary</td>
</tr>
<tr>
<td>Option A Reuse: Unisex ADA Accessible Bathroom</td>
</tr>
<tr>
<td>Option B Reuse: Unisex ADA Accessible Bathroom</td>
</tr>
<tr>
<td>Treatment Method: Rehabilitation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Floor: First</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room: 105 Former Servant's Wing</td>
</tr>
<tr>
<td>Classification: Tertiary</td>
</tr>
<tr>
<td>Option A Reuse: Orientation Film</td>
</tr>
<tr>
<td>Option B Reuse: Installation Space/Studio</td>
</tr>
<tr>
<td>Treatment Method: Rehabilitation</td>
</tr>
</tbody>
</table>
Floor: Second

Room: 201 Kitchen

Classification: Tertiary

Option A Reuse: Breakroom/Catering Kitchen

Option B Reuse: Catering Kitchen

Treatment Method: Preservation

Floor: Second

Room: 202 Dining Room

Classification: Primary

Option A Reuse: Meeting Room/Archival Storage

Option B Reuse: Meeting Room/Archival Storage

Treatment Method: Restoration

Floor: Second

Room: 203 Bedroom

Classification: Secondary

Option A Reuse: Archival Vault/Office

Option B Reuse: Artist Office (private)

Treatment Method: Rehabilitation
<table>
<thead>
<tr>
<th>Floor</th>
<th>Room</th>
<th>Classification</th>
<th>Option A Reuse</th>
<th>Option B Reuse</th>
<th>Treatment Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Second</td>
<td>204 Bathroom</td>
<td>Secondary</td>
<td>Private Staff Restroom</td>
<td>Private Restroom</td>
<td>Rehabilitation</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>205 Former Bedroom Wing</td>
<td>Secondary</td>
<td>Archives/Processing Space</td>
<td>Artist Workspace</td>
<td>Rehabilitation</td>
</tr>
<tr>
<td></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>206 Hall</td>
<td>Primary</td>
<td>Circulation</td>
<td>Circulation</td>
<td>Preservation</td>
</tr>
</tbody>
</table>
Floor: Penthouse
Room: 301 Penthouse
Classification: Secondary
Option A Reuse: Small Reading Room
Option B Reuse: Small Reading Room
Treatment Method: Preservation

Floor: Basement
Room: 001 Garage
Classification: Tertiary
Option A Reuse: Non Archival Storage
Option B Reuse: Artists Workshop/Storage
Treatment Method: Rehabilitation

Floor: Basement
Room: 002 Workroom
Classification: Tertiary
Option A Reuse: Non Archival Storage
Option B Reuse: Artist Workshop/Storage
Treatment Method: Rehabilitation
Floor: Basement

Room: 003 Toilet Room

Classification: Tertiary

Option A Reuse: Mechanical electrical & plumbing systems

Option B Reuse: Mechanical electrical & plumbing systems

Treatment Method: Rehabilitation

Floor: Basement

Room: 004 Hall

Classification: Tertiary

Option A Reuse: Mechanical electrical & plumbing systems

Option B Reuse: Mechanical electrical & plumbing systems

Treatment Method: Rehabilitation
APPENDIX O

ROOM-BY-ROOM WORK RECOMMENDATIONS
Level: First  
Room: 101 Entry Hall

Work to be done:
1. Rehang small side door to exit stairs.
2. Strip overpainted door.
3. Strip overpainted wood trim.
4. Remove non-historic lighting.
5. Remove non-historic cabinets/shelving/display cases.
6. Remove non-historic partition.
7. Remove sound-abatement material on windows and doors.
8. Restore finishes on wall.
9. Restore fireplace.
10. Strip overpaint on bricks.
11. Reconfigure structural framing.
12. Remove non-historic window.
13. Remove HVAC.
14. Move plumbing pipes to a less prominent place.
15. Remove non-historic window infill.
16. Remove vertical soffit.
17. Uncover clerestory windows.
18. Reconstruct light fixture with lighting that would be historically accurate.
22. Remove ceiling track.
23. Remove bars over lower portion of windows.
24. Remove stainless steel sink.
25. Remove surface mounted conduit and replace with less obtrusive wiring.
26. Replace surface mounted fire alarm.
27. Remove closet and abutting block element.
Level: First
Room: 102a Living Room

Work to be done:
1. Rehang small side door to exit stairs.
2. Strip overpainted door.
3. Strip overpainted wood trim.
4. Remove non-historic lighting.
5. Remove non-historic cabinets/shelving/display cases.
6. Remove non-historic partition.
7. Remove sound-abatement material on windows and doors.
8. Restore finishes on wall.
9. Restore fireplace.
10. Strip overpaint on bricks.
11. Reconfigure structural framing.
12. Remove non-historic window.
13. Remove HVAC.
14. Move plumbing pipes to a less prominent place.
15. Remove non-historic window infill.
16. Remove vertical soffit.
17. Uncover clerestory windows.
18. Reconstruct light fixture with lighting that would be historically accurate.
22. Remove ceiling track.
23. Remove bars over lower portion of windows.
24. Remove stainless steel sink.
25. Remove surface mounted conduit and replace with less obtrusive wiring.
26. Replace surface mounted fire alarm.
27. Remove closet and abutting block element.
Level: First
Room: 102b Living Room

Work to be done:
1. Rehang small side door to exit stairs.
2. Strip overpainted door.
3. Strip overpainted wood trim.
4. Remove non-historic lighting.
5. Remove non-historic cabinets/shelving/display cases.
6. Remove non-historic partition.
7. Remove sound-abatement material on windows and doors.
8. Restore finishes on wall.
9. Restore fireplace.
10. Strip overpaint on bricks.
11. Reconfigure structural framing.
12. Remove non-historic window.
13. Remove HVAC.
14. Move plumbing pipes to a less prominent place.
15. Remove non-historic window infill.
16. Remove vertical soffit.
17. Uncover clerestory windows.
18. Reconstruct light fixture with lighting that would be historically accurate.
22. Remove ceiling track.
23. Remove bars over lower portion of windows.
24. Remove stainless steel sink.
25. Remove surface mounted conduit and replace with less obtrusive wiring.
26. Replace surface mounted fire alarm.
27. Remove closet and abutting block element.
Level: First
Room: 103 Study

Work to be done:
1. Rehang small side door to exit stairs.
2. Strip overpainted door.
3. Strip overpainted wood trim.
4. Remove non-historic lighting.
5. Remove non-historic cabinets/shelving/display cases.
6. Remove non-historic partition.
7. Remove sound-abatement material on windows and doors.
8. Restore finishes on wall.
9. Restore fireplace.
10. Strip overpaint on bricks.
11. Reconfigure structural framing.
12. Remove non-historic window.
13. Remove HVAC.
14. Move plumbing pipes to a less prominent place.
15. Remove non-historic window infill.
16. Remove vertical soffit.
17. Uncover clerestory windows.
18. Reconstruct light fixture with lighting that would be historically accurate.
22. Remove ceiling track.
23. Remove bars over lower portion of windows.
24. Remove stainless steel sink.
25. Remove surface mounted conduit and replace with less obtrusive wiring.
26. Replace surface mounted fire alarm.
27. Remove closet and abutting block element.
Level: First
Room: 104 Former Bathroom

Work to be done:
1. Rehang small side door to exit stairs.
2. Strip overpainted door.
3. Strip overpainted wood trim.
4. Remove non-historic lighting.
5. Remove non-historic cabinets/shelving/display cases.
6. Remove non-historic partition.
7. Remove sound-abatement material on windows and doors.
8. Restore finishes on wall.
9. Restore fireplace.
10. Strip overpaint on bricks.
11. Reconfigure structural framing.
12. Remove non-historic window.
13. Remove HVAC.
14. Move plumbing pipes to a less prominent place.
15. Remove non-historic window infill.
16. Remove vertical soffit.
17. Uncover clerestory windows.
18. Reconstruct light fixture with lighting that would be historically accurate.
22. Remove ceiling track.
23. Remove bars over lower portion of windows.
24. Remove stainless steel sink.
25. Remove surface mounted conduit and replace with less obtrusive wiring.
26. Replace surface mounted fire alarm.
27. Remove closet and abutting block element.
Level: First  
Room: 105 Former Servant’s Wing

Work to be done:
1. Rehang small side door to exit stairs.
2. Strip overpainted door.
3. Strip overpainted wood trim.
4. Remove non-historic lighting.
5. Remove non-historic cabinets/shelving/display cases.
6. Remove non-historic partition.
7. Remove sound-abatement material on windows and doors.
8. Restore finishes on wall.
9. Restore fireplace.
10. Strip overpaint on bricks.
11. Reconfigure structural framing.
12. Remove non-historic window.
13. Remove HVAC.
14. Move plumbing pipes to a less prominent place.
15. Remove non-historic window infill.
16. Remove vertical soffit.
17. Uncover clerestory windows.
18. Reconstruct light fixture with lighting that would be historically accurate.
22. Remove ceiling track.
23. Remove bars over lower portion of windows.
24. Remove stainless steel sink.
25. Remove surface mounted conduit and replace with less obtrusive wiring.
26. Replace surface mounted fire alarm.
27. Remove closet and abutting block element.