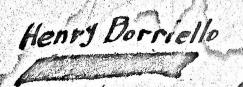
UNIT PLANS Suggestions for the interior arrangement of low-rent dwellings

728.1 H68un

UNITED STATES HOUSING AUTHORITY

Department of the Interior Washington, D.C. August, 1938



Henry Bomriello 728.1 H 68 un

UNIT PLANS

SUGGESTIONS FOR DWELLING ARRANGEMENTS FOR LOW-RENT HOUSING

FOREWORD

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The following plan studies of various types of dwelling units and combinations of units have been prepared by the United States Housing Authority as an aid to the architect and the engineer in developing his own plans for low-rent housing units in the solution of a specific problem. In no case are the plans to be interpreted as standard or required plans.

The plan studies show various dwelling arrangements based upon minimum room areas set by the United States Housing Authority. The dimensions shown result from structural design which utilizes materials and structural systems to the greatest advantage.

The accompanying data and comments are intended to serve as a guide in evaluating the basic features of each plan and analyzing the comparative economy of the various types.

CONSIDERATIONS IN DEVELOPING UNIT PLANS

Unit plans are the basic elements of building composition.

In considering the merits of various unit plans, it is most important to realize that mathematical evaluation of a plan is of use only after the proper relationship of rooms and livability have been established, for without primary consideration of these factors in the design of the plan, the comparative measurement of its economy is useless, even though favorable.

While it may be desirable to have rooms larger than the minimum areas set forth here, such additional space must be obtained with maximum economy in construction in order to maintain the low initial and maintenance costs essential to the success of a project. Although an increase in area does not increase the cost directly in proportion to the increase in area, since many mechanical and equipment items, stairs, etc. remain the same, the portion of the cost which increases directly with the increase in area represents over one half of the construction cost, and is therefore an appreciable factor.

Every item of economy, however minor, is an important consideration because of the repetitive use of plan elements in low-cost housing projects. Basic factors which govern the economy of a plan are (1) economic spans of beams and slabs in fireproof construction, (2) use of stock sizes of lumber without waste, (3) stair framing with run of joists in non-fireproof construction, and (4) back to back combinations of plumbing fixture groups with no offset in the plumbing stack.

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MINIMUM ROOM SIZES

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The following room sizes are the smallest which will generally be acceptable to the U.S.H.A:

- 1. Living Room: 150 square feet.
- 2. Kitchen: 60 square feet and a minimum width of 7 feet in kitchens of 60 to 70 square feet in area. Not less than 3 feet clear space is to be provided in front of kitchen equipment.
- Kitchenette: not less than 3 feet clear space provided in front of kitchen equipment. Such equipment is to be equal to full kitchen equipment.
- 4. Dining Room: 100 square feet.
- 5. Dining Space: 60 square feet in addition to minimum areas of Kitchen or Living Room to which it is added.
- 6. First Bedroom: 120 square feet.
- 7. Second Bedroom: 90 square feet.
- 8. Third or Fourth Bedroom: 80 square feet.
- 9. The above minima must be enlarged within the aggregate net area of the Living Room, Kitchen, and Dining Space under the following conditions:

- a. For two bedroom units, this aggregate net area shall be not less than 240 square feet.
- b. For three or more bedroom units, this aggregate net area shall be not less than 260 square feet.
- All of the above areas are exclusive of closets.

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Closets should be no less than 22 inches in depth, and approximately 2 lineal feet per person should be provided as a general rule.

Seven feet ten inches may generally be regarded as the minimum room height from finished floor to lowest point of finished ceiling to provide for adequate sun-light penetration and air circulation.

ROOM COUNT

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For purposes of comparison and standardization in evaluating projects, the following system for counting rooms is specified:

1. Living Room, Kitchen, Dining Room, and Bedroom will be counted as a whole room.

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2. Kitchenette, when provided as an alcove extension to Living Room (in addition to the minimum area required for Living Room), will be counted as a half room.

- 3. Dining Space, when provided as an alcove extension to Living Room or Kitchen (in addition to the minimum areas required for such rooms), will be counted as a <u>half room</u>.
- 4. Bathrooms, Halls, Closets, Laundries, Utility Rooms, Storage Rooms, Community or Recreation Rooms will <u>not</u> be counted as whole or half rooms.

CHECKING COSTS

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The following factors have a direct quantitative bearing on costs, regardless of the material specifications:

- 1. Lineal feet of Exterior Wall, one story high, per countable room. (This does not include end walls.)
- 2. Gross Area per room. This is the total unit area, including exterior walls, (except end walls) and taken from center to center of partitions between units, divided by number of rooms.
- 3. <u>Ratio of Net Area to Gross Area per room.</u> The Net Area is the total area within the plaster lines of counted rooms only, divided by the number of such rooms.

These items have been computed and given on each sheet of the plan studies. Dwelling units of corresponding types will compare favorably with the plan studies if the values for these items fall within the ranges given below:

| | Lineal Feet Exterior Wall Per Room | Gross Area Square Feet Per Room | Ratio of Net Area to Gross Area not less than |
|---------------------------------------|--|---|---|
| Houses | 5 | | t de la tr |
| One Story | 11.3-13.0 | 150-171 | 70.0% |
| Houses & Flats | | | |
| Two Story | 11.3-13.7 | 151-178 | 62.2% |
| Apartments Tee Type | | et al da la transferation al character transferation | |
| Three Story | 10.6-11.4 | 168-187 | 63.5% |
| Apartments Ribbon Three Story | 11.3-14.0 | 152-181 | 63.0% |
| | | 1)2-101 | 0).0% |
| Apartments Ell Type Three Story | 12.8-13.1 | 177 180 | 65.7% |
| | 12:0-1).1 | 177-180 | 07.170 |

SELECTION OF TYPE OF UNITS

Selection of units for a specific project must be based on consideration of:

- 1. Relation of the proposed site to the city pattern, and appropriate density of development.
- 2. Character of surrounding development.
- 3. Prevailing local customs and preferences with respect to dwelling unit types.
- 4. Effect of building code and other applicable regulations on the relative costs per dwelling unit of each type.
- 5. Prevailing local building techniques and their effect on relative costs per dwelling unit of each type.

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The cost limitations imposed by the Act will determine the maximum average number of rooms per dwelling unit in most localities. Experience has already shown the average number of rooms per dwelling unit is likely to be between four and five.

Unit plans should always be studied concurrently with group or block plans. The length of the building of assembled units should generally not exceed 200 feet as expansion joints may be necessary beyond this length and their cost may exceed possible economy through greater length. In selection of unit types the relation of the unit to ground areas and to common facilities should be studied. Certain types of units require a high percentage of project maintenance of ground areas whereas others may be planned with a high percentage of tenant maintenance. The disposition of project facilities such as laundries, storage space, garbage disposal and collection, and individual or central and group heating plants (located within the unit or elsewhere) will have direct bearing on the planning of the unit. The disposition of other facilities, such as management, social, educational, and health, will have an indirect influence on the selection of units.

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EXPLANATION OF QUANTITY LISTS

The data sheet accompanying each of the following unit plan studies contains a quantity list by means of which a direct and simple cost comparison may be made among the various plan types in a particular area at a particular time.

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For items listed that occur but once in a dwelling unit, a direct comparison may be made of quantities per dwelling unit; for other items, the most direct comparison may be obtained by dividing the quantities for a typical plan unit by the number of rooms contained in such unit, and comparing the quantities per room. Comparison of overall costs may be made by preparing estimates, as described herein, of the total costs of the units which are compared; these total costs may be divided by the number of rooms, or number of dwelling units, to arrive at Comparative Costs per room and per dwelling unit.

Thus the quantity lists, when applied to the unit plans indicated, may be used to arrive at a quick evaluation of the comparative economy of various general plan types in a particular situation.

The general form, adapted to particular plans, may also be used for the preparation of an actual estimate of "Dwelling Facilities" costs. For these purposes, the services of persons familiar with estimating and with costs are required to supply the appropriate unit prices covering labor and materials. Suitable allowances and percentages must be added to cover the costs of contractors job expenses such as equipment rentals, taxes, costs of supervision, insurance and bond, as well as other contractors overhead and commission or profit. (This allowance may run as high as 15 to 20 per cent of the sum total of costs of all the items listed). A uniform factor covering these may be added to each unit price, or a lump sum may be added to the total of all items.

In addition, there must be added to the sum total of all these items, an allowance to cover the costs of architectural, engineering and landscape architectural fees, local Housing Authority expenses, and carrying charges. (This allowance may run as high as 10 to 12 per cent of the sum total of all the items listed plus the above allowance). A uniform factor covering this allowance may be added to each unit price, or a lump sum may be added to the total of all other items.

As an aid to the technically trained, experienced estimator who will prepare unit prices for use with the quantity lists for particular plans in a particular community, the following definitions explain the scope of work covered under each item in the Quantity List.

DEFINITIONS

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General Excavation: Per cubic yard; length of unit $\frac{x}{x}$ (width plus 4 ft.) x 3 ft. deep; for pipe .60 space 4 feet below first floor level.

Foundation Wall & Footing: Per lineal foot; include wall footing, hand excavation of trench = length $5\frac{2^{0}}{5}$ of footing x depth x 2 feet, and foundation wall 4 ft. high from top of footing to first floor level.

Exterior Wall: Per lineal foot; include wall from first floor level to top of roof slab (no 10.0 deductions for windows or doors). Include masonry, studding, sheathing, dampproofing, plaster, paint, base, furring, as required.

Parapet Wall: Per lineal foot; include wall 3. above roof slab. Include masonry, cant strip, waterproofing, flashing and coping.

Windows: Per square foot; assume windows are approximately 20 per cent of the exterior wall area. Include frames, sash, glass and glazing, paint, screens, shades and brackets, lintels, sills, stools, aprons, casings, hardware, waterproofing, caulking. Deduct cost of masonry only of exterior wall displaced by opening.

Floor and Roof (Gross): Per square foot of coverage. Include floor construction, finish of concrete slabs or wood sub-floor, supporting beams and columns for all floors and roof, paint on all ceilings, roof insulation, roofing, exterior gutters and downspouts, ceiling under roof, if any.

Floor Covering (Net): Per square foot of a finished floor over net area. Special cement finish, asphalt or hardwood floor sanded and varnished or waxed.

1 Story Partitions: Per lineal foot of parti-

- 6 -

tion one story high. Include plaster, paint and 4.0° base. study and lath on black base, studs and lath or block.

Corner Beads: Per corner bead one story high. 1.00

Closets: Include closet shelving, hookstrip 3.00 and drapery brackets, etc.

Cased Opening: Buck, frame and trim, painted.

Doors Interior: Buck, frame and trim, door, 1^{0} . painted and with hardware and threshold.

Heating: Per cubic foot of building. Cube is based on 9'-0" story height. Include all boiler plant equipment, yard distribution, radiators, piping and paint. 40,00

Stairs - One Story Flights: Per flight, in Houses and Flats. Include treads, wall rail, brackets, etc. and paint and painting.

Stairs - Complete: Stairs in apartment units, 40.02 huy complete from entrance level to top.

Entrance Doors Front - Rear: For houses and flats. Include frame, trim, door, painted and glazed, hardware, screen door, caulking, weatherstripping, sill, lintel. Deduct cost of masonry displaced by opening.

Apartment Entrance Doors: Frame, trim, saddle, and door, painted, and hardware.

Main Entrance, Etc.: For apartment units. Include door, frame, trim, hardware, screen door, caulking and weatherstripping, sill and lintel, painting, glass and glazing. Entrance stoop and steps, mail boxes, special ornamentation. Deduct cost of masonry displaced by opening.

<u>Stoops - Front & Rear:</u> Per stoop. Include 44 stoop, steps, foundations etc.

<u>Covered Entry</u> (Double): Per double entry. Include foundation wall and footing, additional exterior walls, floor and roof. Entrance door listed as Entrance Door Front.

Extra for Bath: Per dwelling unit. Include 20% furred ceiling, special finish over normal plaster and paint, and special floor finish over normal.

Ranges and Refrigerators: Per dwelling unit, 10% installed.

Kitchen Shelving & Table: Per dwelling unit.

Incinerators: Per incinerator. Include foundation, all masonry, furring, plaster, corner beads, 60 painting, flashing, utility room in basement, interior basement stairs, partitions, doors and outside exit and incinerator metal work.

<u>Plumbing:</u> Per dwelling unit. Include all fixtures and sanitary, water and gas piping in dwelling buildings.

Electrical: Per dwelling unit. Include all ² wiring, outlets, fixtures, accessories in building.

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End Walls & Fire Walls: Per Lineal foot for full height of building. Include additional excavation, foundation wall, and footing, plaster, paint and base; deduct one-half cost of dividing partitions displaced by wall.

For One Story Buildings allow 2 lineal feet of end wall per room.

For Two Story Buildings allow 1.2 lineal feet of end wall per room.

For Three Story Apartment Ribbon allow .6 lineal foot of end wall per room.

For Three Story Apartment Tee allow 1.25 lineal feet of end wall per room.

These allowances are based on an average length of building of approximately 150 feet. If a different average length is contemplated these quantities should be adjusted.

on one heating & Fuel Space: Per square foot. Based on one heating plant for 500 rooms. Include cost of chimney for heating plant in price per square foot of heating space. Allow 3 square feet of heating and fuel space per room assumed to include coal storage, machine room and boiler plant space.

Where individual stoves or gas heaters are used for each dwelling unit the heating items should be modified accordingly.

<u>Tenant Storage Space:</u> Per square foot. Include storage space, perambulator space, etc. Figure cost of all partitions, doors, exits, areaways, additional for cost of foundation walls over 4 feet deep, basement sash. Allow 10 square feet per dwelling unit for storage and 10 square feet per dwelling unit for perambulator and bicycle space.

KEY TO ABBREVIATIONS

- C. Y. Cubic Yards L. F. - Lineal Feet S. F. - Square Feet BEAD. - Corner Beads CLOS. - Closets hard an stranger but hereit OPG. - Cased Openings - Salatana a pueze tranain estre e da DOOR. - Doors FLGT. - Flight of Stairs STR. - Stair System Complete The state of the second st STP. - Stoops ENTY. - Covered Entry ENT. - Apartment Entrance Door INC. - Incinerator Commenced by the mean of D. U. - Dwelling Unit Pl.2S - Partition plastered two sides.
 - Pl.1S Partition plastered one side. bise for a start of the second s

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GENERAL NOTES Bor College + Or and + Ballado B

The following notes apply generally to all plan studies:

(1) Plan types are schematic and many variations within each general type are possible and desirable to meet specific local requirements.

(2) Indications of windows and other similar items are diagrammatic only and are not intended to show either size or location.

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Heating Strike

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(3) No attempt has been made to show all possible partition arrangements between kitchen and living rooms. These may range from complete separation by partitions and door to complete openness. No one arrangement will answer every condition, and the desirability of privacy here should be weighed against the advantages in simplicity and economy of openness.

(4) In general, sufficient furniture has been spotted on the plans to indicate that the size and shape of the rooms will permit a livable room arrangement.

(5) All dimensions given are from finished plaster to finished plaster.

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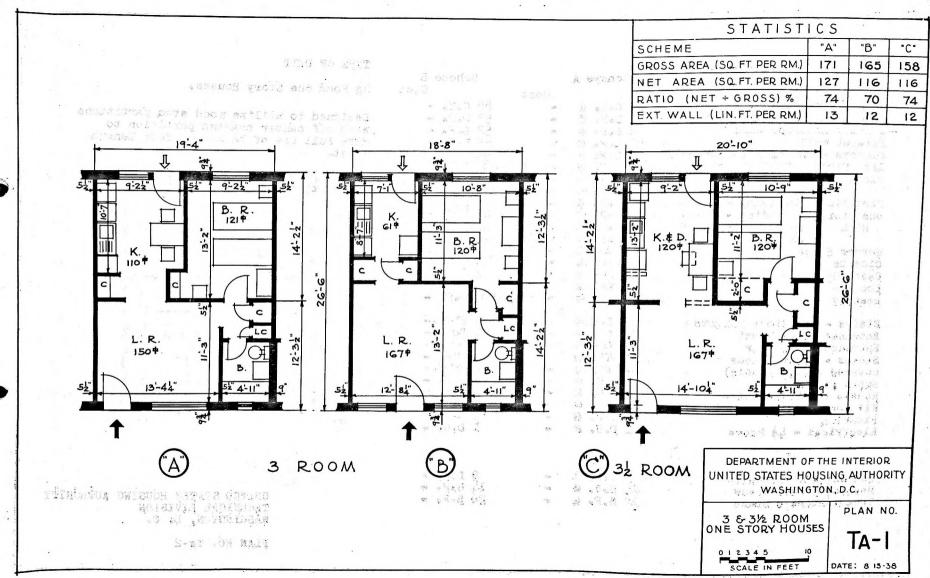
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| QUANTI | TIES | | | le | | | 75.1 | TYPE OF UNIT |
|---|----------|---------------|---------------------|----------------------|------------------|-------------------------|-----------------------------|---|
| | | Schem | | Cost 200 | | Cost | 3불 Room Cost | |
| General Excavation Foundation Wall & Footing | 66 29 | C.Y. | @.60 - @ 16"- | 20.60 6: HUA.60 Z | 3 C•Y• 7 L•F• | - 7 | 1 C.Y 42. 2 L.F/51. | 20 |
| l Story Exterior Wall Parapet Wall | 39 | L.F. | @10.00- | 340.20 -3' | 7 L.F. | | 2 L.F4201 | ov Designed to utilize wood |
| Windows - 20% of Exterior Wal | 11 70 | S.F. | @ 4.0° - | 60. 6 | 7 L.F. 7 S.F. | - 7 | 2 L.F/26 5 S.F 17, | o center bearing partition |
| lst. Floor & Roof (Gross) Floor Covering (Net) | | | @ 39 - @ 10 - | 97. 49 | S.F. | - 55 | 2 S.F194. 8 S.F103. | 20 to make full use of 12 66 and 14 foot length joist. |
| (Interior - Pl.2S | 41 | L.F. | @ 30 - | 13 4 | L.F. | 4 | 1 L.F 12. | 30 |
| Partitions (Dividing - Pl.1S One Story (Dividing - Pl.2S | 21 | L.F. | @ 15° - @ 2°° - | 40 21 | 7 L.F. L L.F. | - 2 | 7 L.F 10, 21 L.F 63. | 00 two groups of fixtures |
| High (Bath - Pl.1S (Bath - Pl.2S | | L.F. | @ 2° - @ #° - | 2. A-2. D. A. | L.F. L.F. | - states : - 31 6321 | - L.F 2 L.F 24. | on separate stacks. 66 These stacks, however, |
| Corner Beads Closets | .9 | BEAD. | @ 1.0° - | 9 12 | BEAD | - | 7 BEAD 20 3 CLOS 300 | can serve fixtures in |
| Cased Openings Doors - Interior | 2.0 | OPG. | @ - | and all shows | OPG. | · · · · · · · · · · · · | - OPG | |
| | 4,600 | C.F. | @ ,0 ⁰ - | 100 4,500 | DOOR. C.F. | - 5,00 | 4 DOOR - 40. | 10 |
| Stairs - One Story Flights | · · _ | FLGT. | @ 4h = | 40 | FLGT | | - FLGT | |
| Entrance Doors Front Entrance Doors Rear | 1 | DOOR. | @ 16 - @ 15 - | | DOOR | . ■ .3(] | 1 DOOR - 25- 1 DOOR - 75 | 00 |
| Stoops - Front & Rear | 2 | STP. | @ 40 | 80 2 | STP. | - | 2 STP 80. | |
| Covered Entry (Double) Extra for Bath | 1 | ENTY. D.U. | @ | 100 -10.1 | D.U. | | - ENTY 100 | |
| Ranges & Refrigerators Kitchen Shelving & Table | | | @ <u>-</u> @ | | D.U. D.U. | | 1 D.U205 1 D.U 45 | |
| Plumbing Electrical - 3 Rooms | 1 | D.U. | @ < 00 - | 500 1 | D.U. | - | 1 D.U 540 - D.U 50 | |
| 3 ¹ / ₂ Rooms | | D.U. | | 1 | D.U. | | 1 D.U | |
| TOTAL | | | 2 | 374 | | | 2 455 | ,70 |
| End Walls & Firewalls | | L.F. | | | L.F. | | 7 L.F | |
| Heating & Fuel Space Tenant Storage Space | | S.F. S.F. | | | S.F. S.F. | | 1 S.F O S.F | UNITED STATES HOUSING AUTHORITY TECHNICAL DIVISION |
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| | CONTIN | | | | | | | |
|---|---|----------|--------|-----|-----------|---------------------------------------|------------|-----|
| | TRACES REPORTED AND | 5 | Scheme | A | | Scheme 1 | 3 | |
| | and the standard of the summarian standard strategies and the second strategies of the second strategies of the | | | Cos | t | (| Cost | 1 |
| | General Excavation | 88 | C.Y. @ | | | C.Y | | |
| | Foundation Wall & Footing | | L.F. @ | | | L.F | | I |
| | 1 Story Exterior Wall | | L.F. @ | | 52 | L.F | | V |
| | Parapet Wall | 52 | L.F. | | 52 | L.F | | r |
| | Windows - 20% of Exterior Wall | 93 | S.F. @ | | | S.F | | - |
| | 1st. Floor & Roof (Gross) | 681 | S.F. @ | | 68/1 | S.F | | • |
| | Floor Covering (Net) | 643 | S.F. @ | - | 6/13 | S.F | | F |
| | (Interior - Pl.2S | | L.F. @ | | | L.F | | |
| | Partitions (Dividing - Pl.1S | | L.F. @ | | | L.F | | |
| | One Story (Dividing - Pl.2S | | L.F. @ | | | L.F | | |
| | High (Bath - Pl.1S | | L.F. @ | | | L.F | | |
| | (Bath - Pl.2S | | L.F. @ | | | L.F | | |
| | Corner Beads | | BEAD. | | | BEAD | | |
| | Closets | | CLOS. | | | CLOS | | pin |
| | Cased Openings | i | OPG. @ | - 1 | | OPG | | |
| | Doors - Interior | 5 | DOOR. | - | 5 | DOOR | | |
| | Heating | 6,200 | C.F. @ | - | 6,200 | C.F | | |
| | Stairs - One Story Flights | - | FLGT.@ | | - "dag" - | FLGT | • | |
| | Entrance Doors Front | 1 | DOOR.@ | | 1 | DOOR - | | |
| | Entrance Doors Rear | 1 | DOOR.@ | - 1 | 1 | DOOR | | |
| | Stoops - Front & Rear | 2 | STP. @ | | 2 | STP | . F 101 | |
| | Covered Entry (Double) | - | ENTY.@ | - | | ENTY - | | |
| | Extra for Bath | . 1 | D.U. @ | | | D.U | | |
| | Ranges & Refrigerators | 1 | D.U. @ | | 1 | D.U | | |
| | Kitchen Shelving & Table | . 1 | D.U. @ | - | 1. | D.U | | |
| | Plumbing | 1 | D.U. @ | - 4 | 1 | D.U | | |
| | Electrical - 42 Rooms | - A. 1 | D.U. @ | - 1 | 1 | D.U | the second | |
| • | | New York | | | | | là, · | |
| | TOTAL | ing is | | | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | |
| | End Walls & Firewalls | 9 | L.F. @ | - | 9 | L.F | | |
| | Heating & Fuel Space | 7 | S.F. @ | | | S.F | | |
| | Tenant Storage Space | 20 | S.F. @ | | 20 | SoFe - | | |
| | | | | | | | | |

TYPE OF UNIT

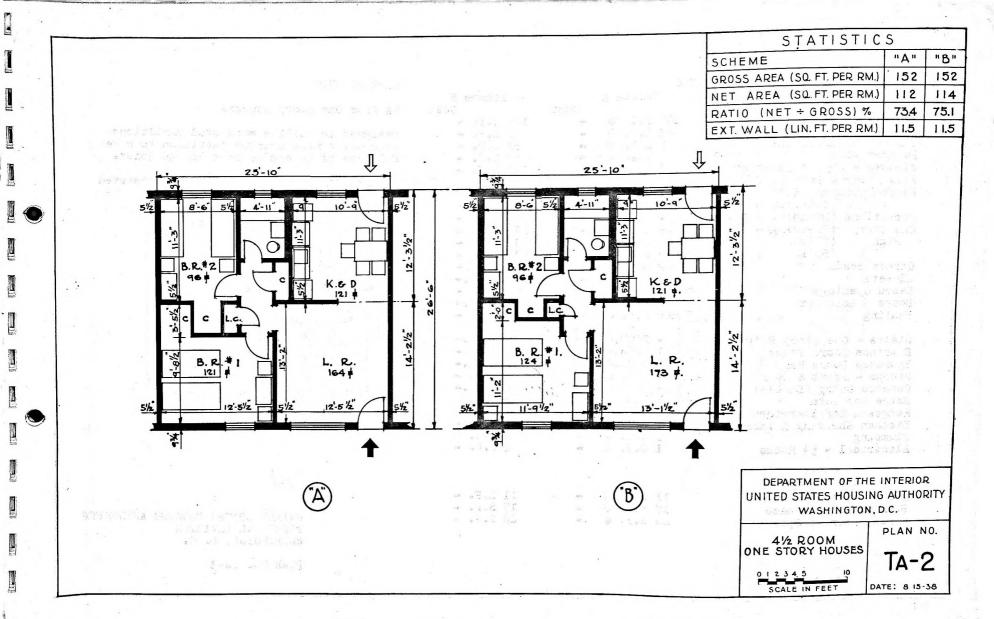
ALCO S

4불 Room One Story Houses.

Designed to utilize wood stud partitions with off center bearing partition to make full use of 12 and 14 foot length joist.

Plumbing arranged with all fixtures served by one stack.

UNITED STATES HOUSING AUTHORITY TECHNICAL DIVISION WASHINGTON, D. C. \mathbb{D}



| QUANTITIES | TYPE OF UNIT |
|---|---|
| Scheme A Scheme | |
| General Excavation 105 C.Y. @ - 105 C.Y. | Cost 5 ¹ / ₂ Room One Story Houses. |
| Foundation W-12 | |
| | Designed to utilize wood stud partitions |
| Domonat Wall | with off center bearing partition to make |
| Windows Oct - OC D.F. | full use of 12 and 14 foot length joist. |
| | · · · · · · · · · · · · · · · · · · · |
| | |
| | by one stack. |
| (Interior - Pl.2S 78 L.F. @ - 78 L.F | |
| One Story (Dividing - Pl.2S 25 L.F. @ - 25 L.F. | |
| High (Bath - Pl.1S 14 L.F. @ - 14 L.F. | |
| (Bath - P1.2S 12 L.F. @ - 12 L.F. | |
| Corner Beads 12 BEAD.@ - 13 BEAD | |
| Closets 7 CLOS.@ - 5 CLOS. | |
| Cased Openings - OPG. @ OPG. | |
| Doors - Interior 6 DOOR.@ - 6 DOOR | |
| Heating 7,400 C.F. @ - 7,400 C.F | |
| | |
| Stairs - One Story Flights - FLGT.@ FLGT | |
| Entrance Doors Front 1 DOOR.@ - 1 DOOR | |
| Entrance Doors Rear 1 DOOR.@ - 1 DOOR | |
| Stoops - Front & Rear 2 STP. @ - 2 STP | |
| Covered Entry (Double) - ENTY.@ ENTY | |
| Extra for Bath l D.U. @ - l D.U | |
| Ranges & Refrigerators 1 D.U. @ - 1 D.U | |
| Kitchen Shelving & Table 1 D.U. @ - 1 D.U | |
| Plumbing 1 D.U. @ - 1 D.U | |
| Electrical - 52 Rooms 1 D.U. @ - 1 D.U | |
| | |
| TOTAL | |
| | |
| End Walls & Firewalls 11 L.F. @ - 11 L.F | |
| Heating & Fuel Space 17 S.F. @ - 17 S.F 20 S.F. @ - 20 S.F 20 S.F | |
| Tenant Storage Space 20 S.F. @ - 20 S.F | UNITED STATES HOUSING AUTHORITY TECHNICAL DIVISION |
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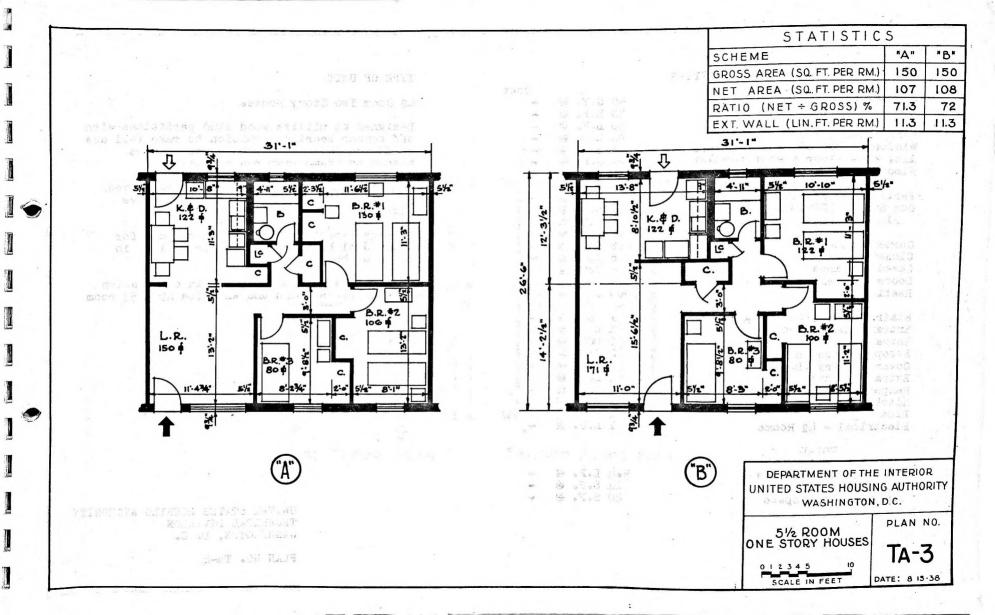
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General Excavation Foundation Wall & Footing 2 Story Exterior Wall Parapet Wall Windows - 20% of Exterior Wall 1st. 2nd. Floor & Roof (Gross) Floor Covering (Net) (Interior - Pl.2S Partitions (Dividing - Pl.1S One Story (Dividing - Pl.2S - P1.1S High (Bath (Bath - P1.28 Corner Beads Closets Cased Openings Doors - Interior 7,000 C.F. @ Heating Stairs - One Story Flights Entrance Doors Front Entrance Doors Rear Stoops - Front & Rear Covered Entry (Double) Extra for Bath Ranges & Refrigerators Kitchen Shelving & Table Plumbing Electrical - 42 Rooms TOTAL End Walls & Firewalls

Heating & Fuel Space Tenant Storage Space

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Least share and destant

Cost

50 C.Y. @ 30 L.F. @

30 L.F. @

106 S.F. @

391 S.F. @

734 S.F. @

74 L.F. @ 18 L.F. @

12 L.F. @

10 BEAD.@

- OPG. @

7 DOOR.@ -

1 FLGT.@

1 DOOR.@

- ENTY. @ 1 D.U. @

1 D.U. @

1 D.U. @

1 D.U. @

1 D.U. @

5.4 L.F. @

14 S.F. @

20 S.F. @

1 DOOR.@ 1 DOOR.@ 2 STP. @

41 L.F. @

- L.F. @

6 CLOS.@

30 L.F. @

TYPE OF UNIT

La Room Two Story House.

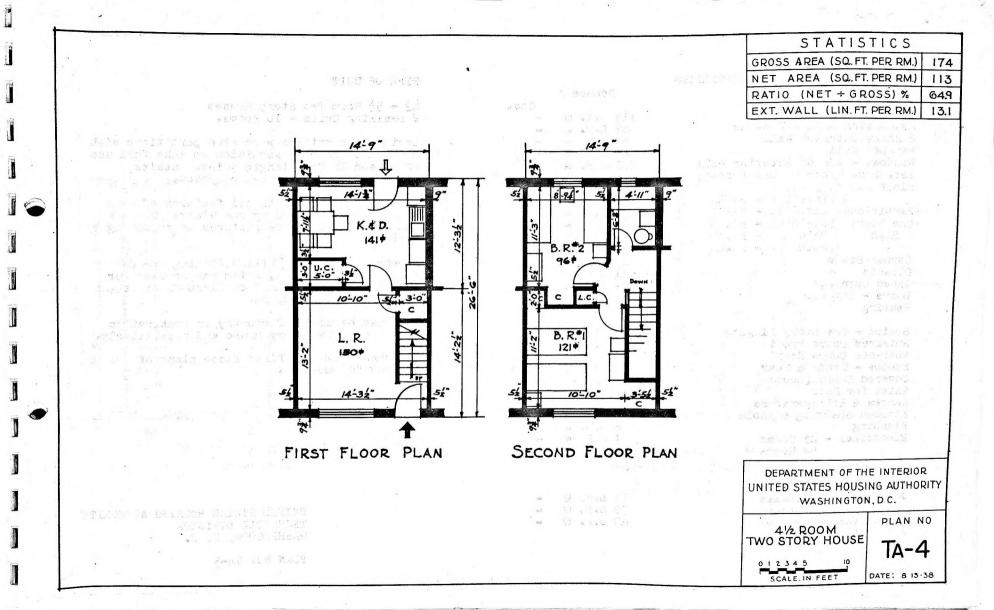
Designed to utilize wood stud partitions with off center bearing partition to make full use of 12 and 14 foot length joist. Stairs placed to frame with run of joist.

Plumbing arranged with all fixtures served by one stack. This stack can also serve fixtures in an adjoining unit.

Utility closet in Kitchen can be used for individual heating unit on first floor in place of basement space.

Unit may be used efficiently in combination with a reverse plan and with the $4\frac{1}{2}$ - $5\frac{1}{2}$ room two story house.

> UNITED STATES HOUSING AUTHORITY TECHNICAL DIVISION WASHINGTON, D. C.



General Excavation Foundation Wall & Footing 2 Story Exterior Wall Parapet Wall . Windows - 20% of Exterior Wall 1st. 2nd. Floor & Roof (Gross) Floor Covering (Net) (Interior - Pl.2S Partitions (Dividing - Pl.1S One Story (Dividing - Pl.2S High (Bath - Pl.1S - Pl.2S (Bath Corner Beads Closets Cased Openings Doors - Interior Heating Stairs - One Story Flights Entrance Doors Front Entrance Doors Rear Stoops - Front & Rear Covered Entry (Double) Extra for Bath Ranges & Refrigerators Kitchen Shelving & Table Plumbing Electrical - 42 Rooms 5章 Rooms

TOTAL

End Walls & Firewalls Heating & Fuel Space Tenant Storage Space

Scheme A Cost 111 C.Y. @ 67 L.F. @/ 67 L.F. @ 67 L.F. @ 2/12 S.F. @ 890 S.F. @ 1671 S.F. @ 166' L.F. @ -36 L.F. @ -87 L.F. @ - L.F. @ 27 L.F. @ -19 BEAD.@ -11 CLOS.@ -- OPG. @ -15 DOOR.@ -16.000 C.F. @ -2 FLGT.@ 2 DOOR.@ -2 DOOR.@ -Ц STP. @ -- ENTY.@ -2 D.U. @ -2 D.U. @ -2 D.U. @ -2 D.U. @ -1 D.U. @ -1 D.U. @ -12 L.F. @ 30 S.F. @ LO S.F. @ -

TYPE OF UNIT

4월 - 5월 Room Two Story Houses 2 Dwelling Units - 10 Rooms.

Designed to utilize wood stud partitions with off center bearing partition to make full use of 12 and 14 foot length joist. Stairs placed to frame with run of joist.

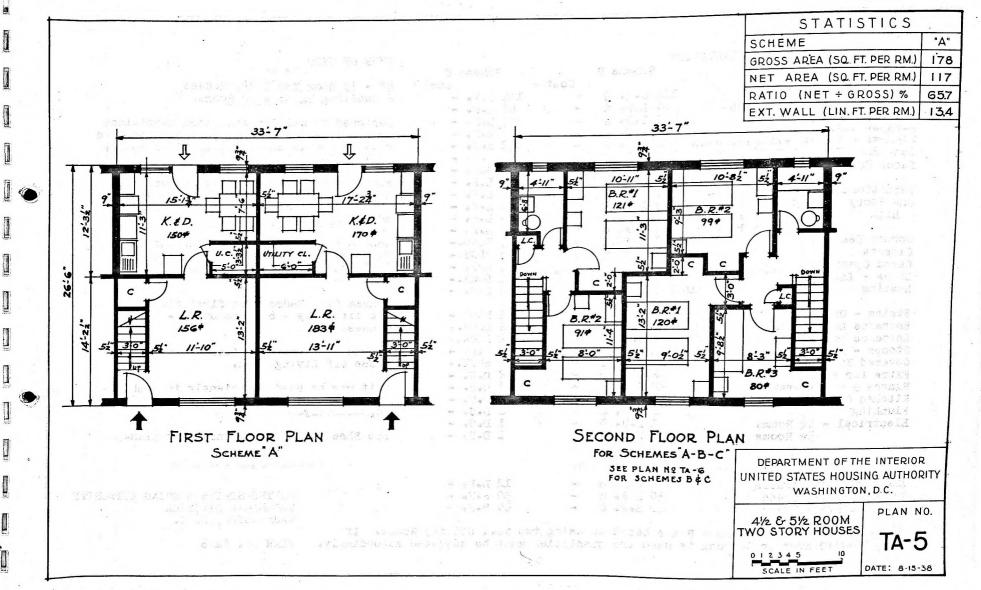
Plumbing arranged with all fixtures of each dwelling unit served by one stack. These stacks can also serve fixtures in adjoining units.

Scheme A: Oversize Kitchen-Dining Spaces with utility closets, which can be used for individual heating unit on first floor in place of basement space.

Unit may be used efficiently in combination with the $4\frac{1}{2}$ two story house and repetitively.

See Sheet Ta-6 for first floor plans of Schemes "B" and "C".

UNITED STATES HOUSING AUTHORITY TECHNICAL DIVISION WASHINGTON. D. C.



A strength

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| QUANTITIES | TYPE OF UNIT |
|--|--|
| Scheme B Scheme C | TTE OF OWER |
| Cost Cost | 4章 - 5章 Room Two Story Houses |
| General Excavation 114 C.Y. @ - 114 C.Y | 2 Dwelling Units = 10 Rooms. |
| Foundation Wall & Footing 67 L.F. @ - 67 L.F | E Duotting out of a lotter |
| 2 Story Exterior Wall 67 L.F. @ - 67 L.F | Designed to utilize wood stud partitions |
| Parapet Wall 67 L.F. @ - 67 L.F | with off center bearing partition to make |
| Windows - 20% of Exterior Wall 242 S.F. @ - 242 S.F | full use of 12 and 14 foot length joist. |
| lst. 2nd. Floor & Roof (Gross) 890 S.F. @30 - 890 S.F | Stairs placed to frame with run of joist. |
| Floor Covering (Net) 1671 S.F. @15 - 1671 S.F | Brails placed to liteme |
| (Interior - Pl.2S 172 L.F. @ 45 - 166 L.F | Plumbing arranged with all fixtures of |
| Partitions (Dividing - Pl.1S 36 L.F. @ - 36 L.F | each dwelling unit served by one stack. |
| One Story (Dividing - Pl.2S 87 L.F. @ - 88 L.F | These stacks can also serve fixtures in |
| High (Bath - Pl.1S - L.F. @ L.F | adjoining units. |
| (Bath - Pl.2S 27 L.F. @ - 27 L.F | adjoining unios. |
| Corner Beads 21 BEAD.@ 100- 25 BEAD | Scheme B: Utility Room connected with |
| Closets 11 CLOS.@ 25 13 CLOS | Kitchen, part of which can be used for |
| Cased Openings - OPG. @ /@ 4 OPG | individual heating unit on first floor |
| Doors - Interior 15 DOOR.@ 10 - 11 DOOR | in place of basement space. |
| Heating 16,000 C.F. @ 40 - 16,000 C.F | III PIACE OF DASEMENT SPACE |
| | Scheme Bl: Bedroom on first floor mak- |
| Stairs - One Story Flights 2 FLGT.@ 44 - 2 FLGT | ing either 42 - 62 room or 52 - 52 room |
| Entrance Doors Front 2 DOOR.@ 25 - 2 DOOR | houses. |
| Entrance Doors Rear 2 DOOR.@ 20 2 DOOR | nouses. |
| Stoops - Front & Rear 4 STP. @ 45 - 4 STP | Scheme C: Separate Kitchen with Dining |
| Covered Entry (Double) - ENTY.@ +0 - ENTY | Space off Living Room. |
| Extra for Bath $2 D \cdot U \cdot e^{40} - 2 D \cdot U \cdot -$ | Space off Diving Koom. |
| Ranges & Refrigerators 2 D.U. @ 150 2 D.U | Unit may be used efficiently in combina- |
| Kitchen Shelving & Table $2 D \cdot U \cdot Q + Q - 2 D \cdot U \cdot Q$ | tion with the $4\frac{1}{2}$ two story house and |
| Plumbing 2 D.U. @ 400 - 2 D.U | repetitively. |
| Electrical - $4\frac{1}{2}$ Rooms 1 D.U. @ 160- 1 D.U | I OPODICIVOLY. |
| 5± Rooms 1 D.U. @ - 1 D.U | See Sheet Ta-5 for second floor plan. |
| | See Sheet 1a-) for second floor plan. |
| TOTAL | & December . |
| 2 | |
| End Walls & Firewalls 12 L.F. @ - 12 L.F | |
| Heating & Fuel Space 30 S.F. @ - 30 S.F | UNITED STATES HOUSING AUTHORIT |
| Tenant Storage Space 40 S.F. @ - 40 S.F | TECHNICAL DIVISION |
| | WASHINGTON, D. C. |
| NOTE: Quantities for Scheme B are based on using two No.1 Utility Roo | oms. If |

NOTE: Quantities for Scheme B are based on using two No.1 Utility Rooms. If No.2 Utility Room or Bedroom is used the quantities must be adjusted accordingly.

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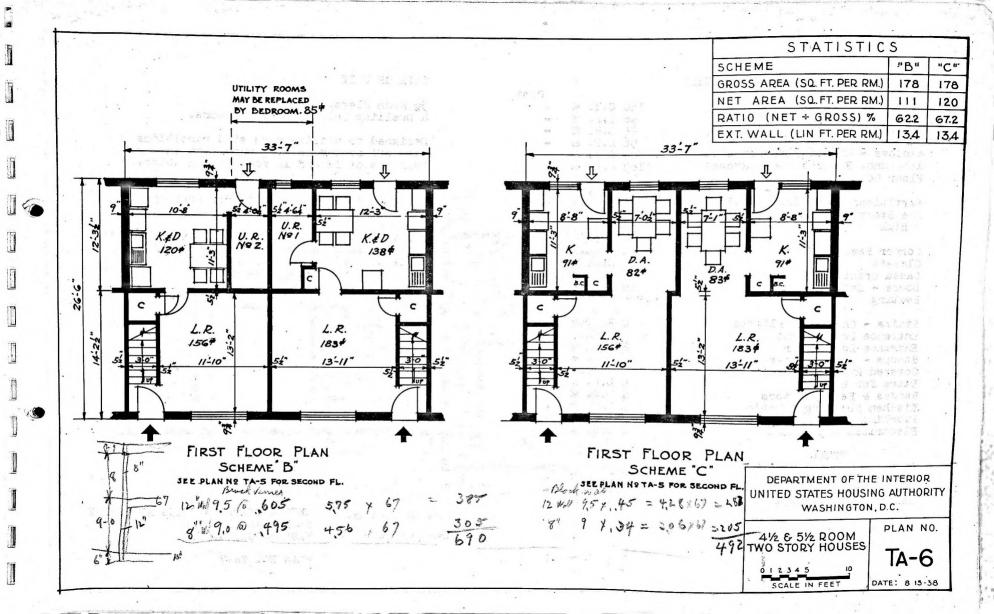
PLAN NO. Ta-6

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General Excavation Foundation Wall & Footing 2 Story Exterior Wall Parapet Wall Windows - 20% of Exterior Wall 1st. 2nd. Floor & Roof (Gross) Floor Covering (Net) (Interior - Pl.2S Partitions (Dividing - Pl.1S One Story (Dividing - Pl.2S High (Bath - Pl.1S (Bath - Pl.2S Corner Beads Closets Cased Openings Doors - Interior Heating Stairs - One Story Flights Entrance Doors Front Entrance Doors Rear Stoops - Front & Rear Covered Entry (Double) Extra for Bath Ranges & Refrigerators Kitchen Shelving & Table Plumbing Electrical - 3호 Rooms

TOTAL

End Walls & Firewalls Heating & Fuel Space Tenant Storage Space

Cost 150 C.Y. @ 96 L.F. @ 96 L.F. @ 96 L.F. @ 311 S.F. @ 1163 S.F. @ 2173 S.F. @ 122 L.F. @ - L.F. @ 157 L.F. @ 56 L.F. @ 34 L.F. @ 36 BEAD.@ 12 CLOS.@ - OPG. @ -16 DOOR.@ -16 DOOR.@ 20,900 C.F. @ 2 FLGT.@ L DOOR.@ 2 DOOR.@ 6 STP. @ - ENTY.@ L D.U. @ -L D.U. @ -L D.U. @ L D.U. @ -Li D.U. @

16.8 L.F. @ -42 S.F. @ -80 S.F. @ -

TYPE OF UNIT

3호 Room Flats, Two Story 4 Dwelling Units @ 3븀 = 14 Rooms.

Designed to utilize wood stud partitions with off center bearing partition to make full use of 12 and 14 foot length joist. Stairs placed to frame with run of joist.

Plumbing arranged with all fixtures of each dwelling unit served by one stack.

Partition between Kitchen and Living Room may be arranged for degree of privacy desired.

UNITED STATES HOUSING AUTHORITY TECHNICAL DIVISION WASHINGTON, D. C.

PLAN NO. Ta-7

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| | STATISTICS |
|--|--|
| | GROSS AREA (SQ. FT. PER RM.) |
| | NET AREA (SQ.FT.PER'RM.) |
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| for a for a start for here there there and the start of t | EXT. WALL (LIN. FT. PER RM.) |
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| series internet was not built to see a liter of the second s | 1 |
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| | Constant of the second second |
| 10'-2" 9" 4'-11" 151/2" 10'-6 1/2" 3 | an a |
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| 51/2 (2-1/2" (5/2 5/2 10.6/2" L.R. 160\$ | A LAND A POINT AND A REAL 23 |
| | a son a grivlade menorili S son enterna |
| 137. FL.ENTR. 0 C. 1512 | Scouthin - Laderrates |
| 181. FL.ENTR. 0 C. 15% | |
| | DEPARTMENT OF THE INTERIOR |
| 431-9" IST.PL.ENTR. | IUNITED STATES HOUSING HOUSING |
| SECOND FLOOR PLAN | WASHINGTON, D.C. |
| FIRST FLOOR SIMILAR | PLAN NO |
| | 3½ ROOM TWO STORY FLATS TA-7 |
| Bart . OR MER | TWO STORY FLAIS |
| | SCALE IN FEET DATE: 8-15-36 |

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| | QUANTIT | IES | | | TYPE OF UNIT |
|---|--|------------------|---------------------------------------|---------------------------|--|
| | Cherrison and the second s | Scheme A | | Scheme B | |
| | | 200000 | Cost | Cost | 5불 Room Flats, Two St |
| | General Excavation | 108 C.Y. @ | - | 106 C.Y | 2 Dwelling Units @ 52 |
| | | | | | |
| | Foundation Wall & Footing | 64 L.F. @ | - | 63 L.F | Destand to atilize W |
| | 2 Story Exterior Wall | 64 L.F. @ | - | 63 L.F | Designed to utilize w |
| | Parapet Wall | 64 L.F. @ | - | 63 L.F | with off center beari |
| | Windows - 20% of Exterior Wall | L 229 S.F. @ | - | 225 S.F | full use of 12 and 14 |
| | 1st. 2nd. Floor & Roof (Gross) | | - | 828 S.F | Stairs placed to fram |
| | Floor Covering (Net) | 1584 S.F. @ | - | 1555 S.F | • • |
| | (Interior - Pl.2S | 174 L.F. @ | - | 173 L.F | Plumbing arranged wit |
| | | | _ | 23 L.F | tures on separate sta |
| 1 | Partitions (Dividing - Pl.1S | | | 60 L.F | however, can serve fi |
| | One Story (Dividing - Pl.2S | 50 L.F. @ | a Chitan | 28 L.F | joining unit. |
| | High (Bath - Pl.1S | | | | Johning mir ce |
| | (Bath - Pl.2S) | | · · · · · · · · · · · · · · · · · · · | 17 L.F | |
| | Corner Beads | 28 BEAD.@ | - | 26 BEAD | 1 |
| | Closets | 14 CLOS.@ | - | 12 CLOS | 1. S. M. 1. 2. 2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. |
| | Cased Openings | - OPG. @ | - | - OPG | |
| | Doors - Interior | 14 DOOR.@ | - | 14 DOOR.+ | |
| | | 15,200 C.F. @ | - 1 | Ц,900 С.Г | apprendiate a second |
| | Honorno | | | 100 | A STATE OF A STATE OF A STATE |
| | Stairs - One Story Flights | 1 FLGT.@ | - | 1 FLGT | 48 |
| | Entrance Doors Front | 2 DOOR .@ | | 2 DOOR | |
| | | 1 DOOR.@ | | 1 DOOR | |
| | Entrance Doors Rear | 3 STP. @ | | 3 STP | State of the state |
| | Stoops - Front & Rear | | | 1 ENTY | |
| | Covered Entry (Double) | 1 ENTY.@ | - | | |
| | Extra for Bath | 2 D.U. @ | | 2 D.U | |
| | Ranges & Refrigerators | 2 D.U. @ | | 2 D.U | |
| | Kitchen Shelving & Table | 2 D.U. @ | | 2 D.U | |
| | Plumbing | 2 D.U. @ | - | 2 D.U | |
| | Electrical - 5t Rooms | 2 D.U. @ | - | 2 D.U | |
| | HIOODI ICON IN SA | | | | and have |
| | TOTAL | | | | |
| | 10111 | - in the a state | 1 20 1 m | Contraction of the second | 14 14 T |
| | - 1 walls & Dimowells | 13.2 L.F. @ | | 13.2 L.F | |
| | End Walls & Firewalls | | ¥. | | and the first of the second |
| | Heating & Fuel Space | 33 S.F. @ | | 33 S.F | INTERN |
| | Tenant Storage Space | 40 S.F. @ | - | 40 S.F | UNITED S |
| | | | | | TECHNICA |
| | | | | 3.3 | WASHINGT |

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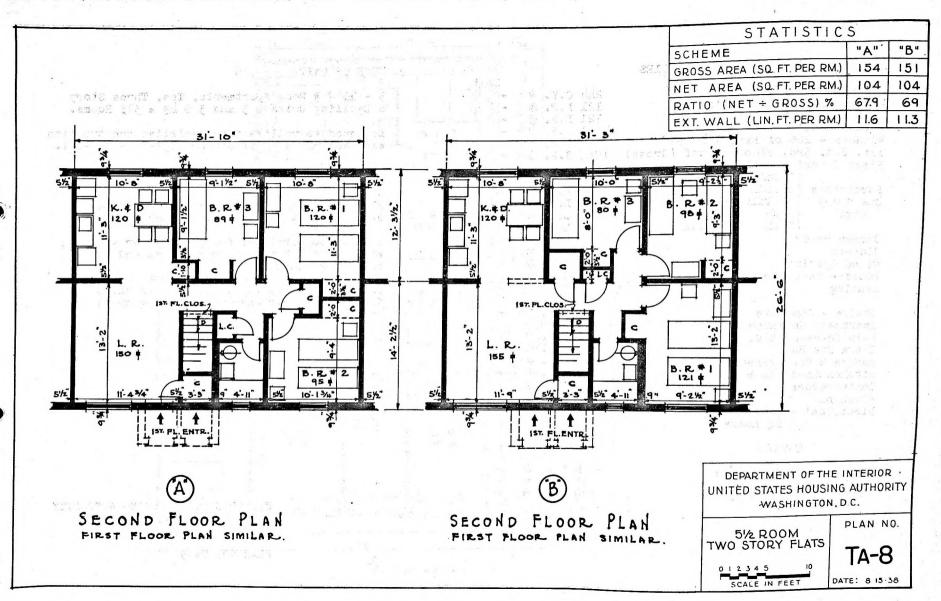
wood stud partitions ring partition to make lu foot length joist. ame with run of joist.

ith two groups of fix-tacks. One stack, fixtures in an ad-

STATES HOUSING AUTHORITY AL DIVISION WASHINGTON, D. C.

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|----|--|--------|--------------|----|
| | General Excavation | 244 | C.Y. | @ |
| | Foundation Wall & Footing | | L.F. | @ |
| | 3 Story Exterior Wall | | L.F. | |
| | Parapet Wall | | L.F. | |
| | Windows - 20% of Exterior Wall | | S.F. | |
| | 1st. 2nd. 3rd. Floor & Roof (Gross) | 1961 | S.F. | @ |
| | Floor Covering (Net) | 51.98 | S.F. | @ |
| | (Interior - Pl.2S | 538 | L.F. | @ |
| | Partitions (Dividing - Pl.1S | | L.F. | |
| | One Story (Dividing - Pl.2S | | L.F. | |
| | High (Bath - Pl.1S | | L.F. | |
| | (Bath - Pl.2S | | L.F. | |
| | Corner Beads | | BEAD | |
| | Closets | | CLOS | |
| | Cased Openings | 5 | OPG. | @ |
| | Doors - Interior | | DOOR | |
| | Heating | 53.000 | | |
| | | | | |
| | Stairs - Complete | 1 | STR. | @ |
| | Apartment Entrance Doors | 9 | DOOR | .@ |
| | Main Entrance Etc. | í | | @ |
| | Extra for Bath | 9 | D.U. | @ |
| | Ranges & Refrigerators | 9 | D.U. | @ |
| | Kitchen Shelving & Table | 9 | D.U. | @ |
| | Incinerators | 1 | INC. | |
| | Plumbing | 2 | D.U. D.U. | @ |
| | Electrical - 3 Rooms | | D.U. | |
| | 4是 Rooms | 3 | D.U. | @ |
| | | | • | |
| | TOTAL | 1. B | | |
| | | 70 1 | | 0 |
| 12 | End Walls & Fire Walls | 27.4 | L.F. | e |

End Walls & Fire Walls Heating & Fuel Space Tenant Storage Space

STA GOT

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Sec.

TYPE OF UNIT

Cost

95 S.F. @ 180 S.F. @

LARRANCE CALL STOLES AT 25

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3 - 4章 - 3 Room Apartments, Tee, Three Story 6 Dwelling Units @ 3 and 3 @ 4章 = 31章 Rooms.

Designed to utilize fire resistive construction with columns set off center (15!-6" - 11!-6").

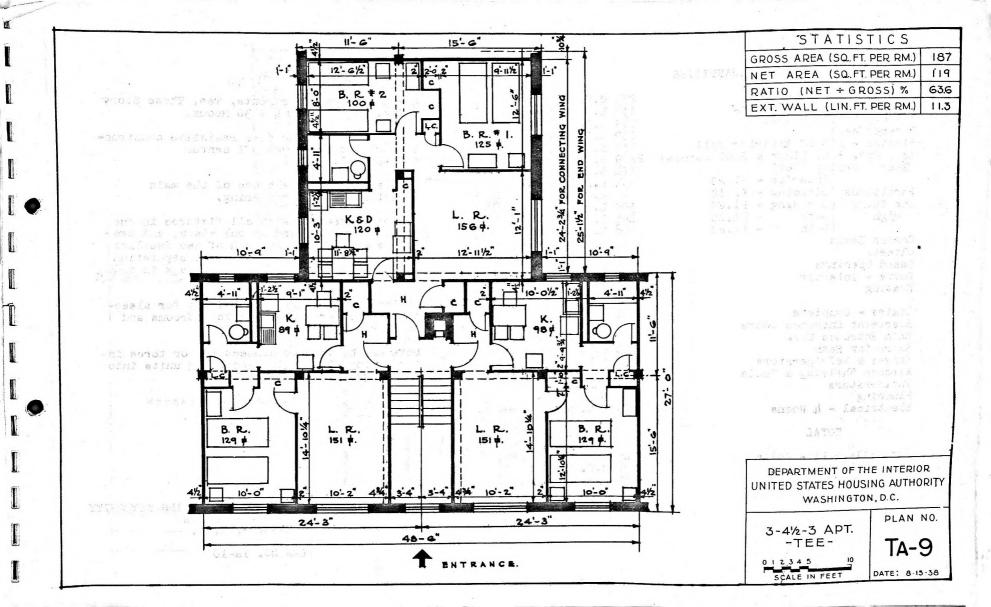
Stairs placed to make use of the main structural beam for framing.

Plumbing arranged with all fixtures of each dwelling unit served by one stack.

Living Room arranged for privacy for sleeping with alternate access to bedrooms and bath through kitchen.

Unit may be used to connect two or three intersecting ribbons in assembling units into buildings.

> UNITED STATES HOUSING AUTHORITY TECHNICAL DIVISION WASHINGTON, D. C.



General Excavation Foundation Wall & Footing 3 Story Exterior Wall Parapet Wall Windows - 20% of Exterior Wall 1st. 2nd. 3rd. Floor & Roof (Gross) Floor Covering (Net) (Interior - Pl.2S Partitions (Dividing - Pl.1S One Story (Dividing - Pl.2S - P1.1S High (Bath - P1.2S (Bath Corner Beads Closets Cased Openings Doors - Interior Heating Stairs - Complete Apartment Entrance Doors Main Entrance Etc.

Stairs - Complete Apartment Entrance Doors Main Entrance Etc. Extra for Bath Ranges & Refrigerators Kitchen Shelving & Table Incinerators Plumbing Electrical - L Rooms

TOTAL

End Walls & Fire Walls Heating & Fuel Space Tenant Storage Space

| | 27 | 5 C | .Y. | @ | - | |
|----|----------------------------------|------------|--|----------|----------|-----|
| | 130 | ΎΓ | F. | @ | - | |
| | 130 | э T. | F. | @ | - | |
| | 130 | ά T. | F. | 0 | - | |
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| | 1 | J D. | • U • | @ | - | |
| ۹. | | J D. | . U. | @ | - | 2 |
| | |) D | U U U U | 00000000 | - | |
| | lyster - | LI | NC. | 0 | - | |
| | 5 | D. | U. | @ | - | |

9 D.U. @

45 L.F. @ 108 S.F. @

180 S.F. @

Cost

TYPE OF UNIT

4 - 4 - 4 Room Apartments, Tee, Three Story 9 Dwelling Units @ 4 = 36 Rooms.

Designed to utilize fire resistive construction with columns set off center (15'-6" - 11'-6").

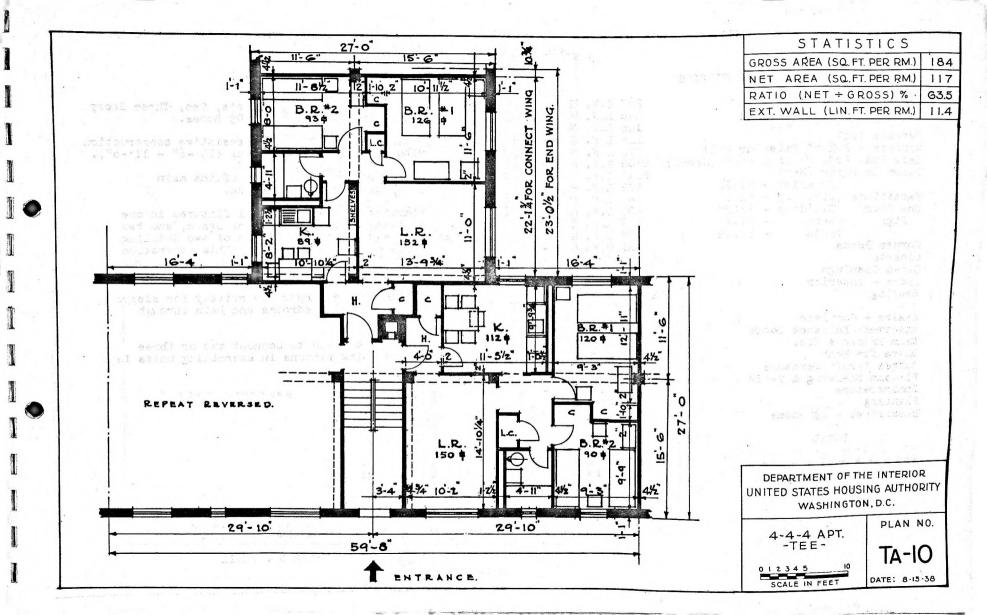
Stairs placed to make use of the main structural beam for framing.

Plumbing arranged with all fixtures in one dwelling unit served by one stack, and two groups of fixtures in each of two dwelling units on separate stacks. This separation is justified by the added advantage in room arrangement.

Living Room arranged for privacy for sleeping with alternate access to bedrooms and bath through kitchen.

Unit may be used to connect two or three intersecting ribbons in assembling units into buildings.

> UNITED STATES HOUSING AUTHORITY TECHNICAL DIVISION WASHINGTON, D. C.



| General Excavation Foundation Wall & Footing 3 Story Exterior Wall Parapet Wall Windows - 20% of Exterior Wall lst. 2nd. 3rd. Floor & Roof (Gross) Floor Covering (Net) (Interior - Pl.2S Partitions (Dividing - Pl.2S Migh (Bath - Pl.1S (Bath - Pl.2S Corner Beads Closets Cased Openings Doors - Interior Heating | 146 146 146 2766 6472 309 2468 1081 391 54 | C.Y. @ L.F. @ L.F. @ S.F. @ S.F. @ L.F. @ L.F. @ L.F. @ L.F. @ BEAD.@ CLOS.@ DOOR.@ C.F. @ |
|---|---|--|
| Stairs - Complete Apartment Entrance Doors Main Entrance Etc. Extra for Bath Ranges & Refrigerators Kitchen Shelving & Table Incinerators Plumbing Electrical - $\frac{1}{4\pi}$ Rooms | 91 99 99 1 | STR. @ DOOR.@ ENT. @ D.U. @ D.U. @ INC. @ D.U. @ D.U. @ |
| TOTAL | | 1 0 1 |

End Walls & Fire Walls Heating & Fuel Space Tenant Storage Space

TYPE OF UNIT

Cost

50.6 L.F. @

122 S.F. @

180 S.F. @

12 - 12 - 12 Room Apartments, Tee, Three Story 9 Dwelling Units @ 42 = 402 Rooms.

Designed to utilize fire resistive construction with columns set off center (15!-6" - 11!-6").

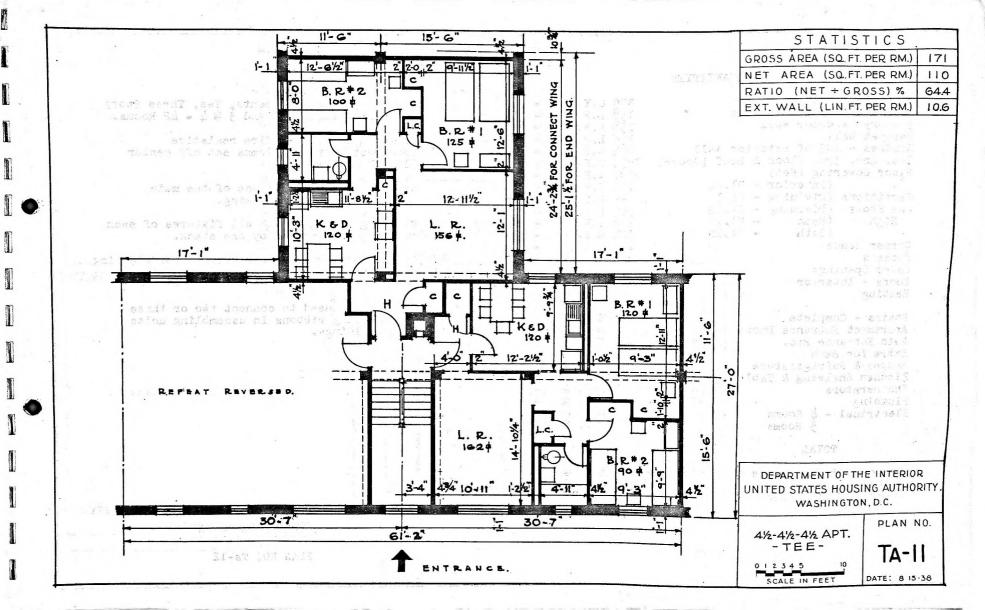
Stairs placed to make use of the main structural beam for framing.

Plumbing arranged with all fixtures in one dwelling unit served by one stack, and two groups of fixtures in each of two dwelling units on separate stacks. This separation is justified by the added advantage in room arrangement.

Living Room arranged for privacy for sleeping with access to bedrooms and bath through kitchen.

Unit may be used to connect two or three intersecting ribbons in assembling units into buildings.

> UNITED STATES HOUSING AUTHORITY TECHNICAL DIVISION WASHINGTON. D. C.



PILL I

| | General Excavation Foundation Wall & Footing 3 Story Exterior Wall Parapet Wall Windows - 20% of Exterior Wall 1st. 2nd. 3rd. Floor & Roof (Gross) Floor Covering (Net) (Interior - Pl.2S Partitions (Dividing - Pl.1S One Story (Dividing - Pl.2S High (Bath - Pl.1S (Bath - Pl.2S Corner Beads Closets Cased Openings | 158 158 158 2475 6907 738 309 126 108 105 48 | C.Y. L.F. L.F. S.F. S.F. S.F. L.F. L.F. L.F | 000000000000000000000000000000000000 |
|-------|---|--|--|--------------------------------------|
| | Doors - Interior | _63 | DOOR | .@ |
| | Heating 66 | 6,800 | C.F. | @ |
| · · · | Stairs - Complete Apartment Entrance Doors Main Entrance Etc. Extra for Bath Ranges & Refrigerators Kitchen Shelving & Table Incinerators Plumbing Electrical - h Rooms 5 Rooms | 91 99 99 91 9 | STR. DOOR ENT. D.U. D.U. D.U. D.U. D.U. D.U. D.U. | 000000 |
| | | | | |

End Walls & Fire Walls Heating & Fuel Space Tenant Storage Space

TYPE OF UNIT

Cost

52.5 L.F. @

126 S.F. @ 180 S.F. @

5 - 4 - 5 Room Apartments, Tee, Three Story 6 Dwelling Units @ 5 and 3 @ 4 - 42 Rooms.

Designed to utilize fire resistive construction with columns set off center (15'-6'' - 11'-6'').

Stairs placed to make use of the main structural beam for framing.

Plumbing arranged with all fixtures of each dwelling unit served by one stack.

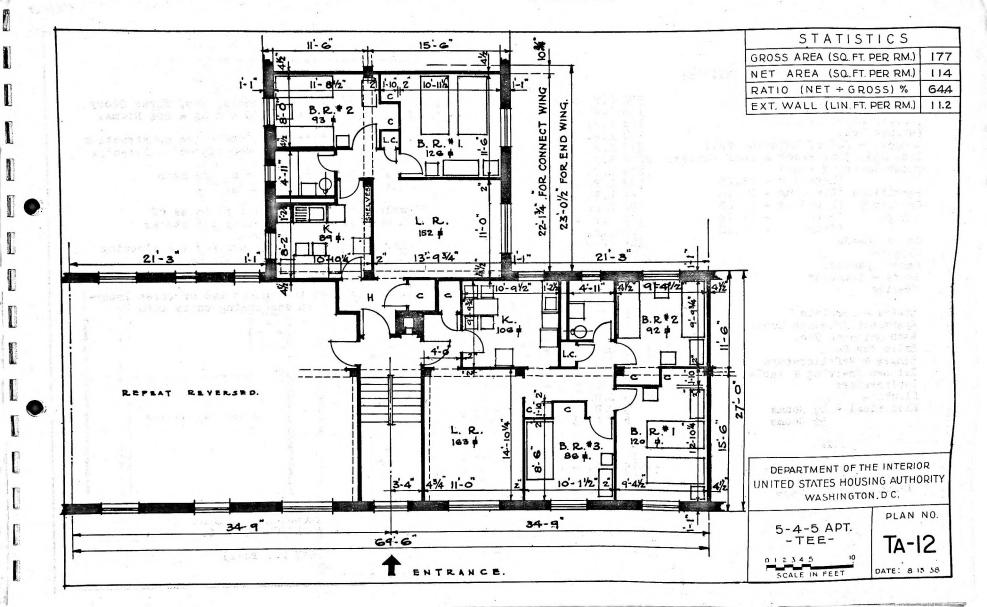
(D)

Living Room arranged for privacy for sleeping with alternate access to bedrooms and bath through kitchen.

Unit may be used to connect two or three intersecting ribbons in assembling units into buildings.

> UNITED STATES HOUSING AUTHORITY TECHNICAL DIVISION WASHINGTON, D. C.

高能产品生产 戴旗等属的人名



| General Excavation Foundation Wall & Footing 3 Story Exterior Wall Parapet Wall Windows - 20% of Exterior Wall | 168 168 168 | C.Y. @ L.F. @ L.F. @ L.F. @ S.F. @ |
|--|---------------------|--|
| lst. 2nd. 3rd. Floor & Roof (Gross) Floor Covering (Net) (Interior - Pl.2S | 2668 7275 792 | S.F. @ S.F. @ L.F. @ |
| Partitions (Dividing - Pl.1S One Story (Dividing - Pl.2S High (Bath - Pl.1S (Bath - Pl.2S | 309 126 108 | L.F. @ L.F. @ L.F. @ L.F. @ |
| Corner Beads Closets Cased Openings Doors - Interior | 54 9 72 | BEAD.@ CLOS.@ OPG.@ DOOR.@ |
| Heating | | C.F. @ |
| Stairs - Complete Apartment Entrance Doors Main Entrance Etc. Extra for Bath | 9 1 | STR. @ DOOR.@ ENT. @ D.U. @ |
| Ranges & Refrigerators Kitchen Shelving & Table Incinerators | 9 9 1 | D.U. @ D.U. @ INC. @ D.U. @ |
| Plumbing Electrical - 나글 Rooms 5호 Rooms | | D.U. @ D.U. @ |
| TOTAL | E8 7E | TIN @ |
| End Walls & Fire Walls Heating & Fuel Space Tenant Storage Space | 140 180 | |

deringen gert

TYPE OF UNIT

Cost

· 18.57

SHANTWAR

5월 - 4월 - 5월 Room Apartments, Tee, Three Story 6 Dwelling Units @ 5월 and 3 @ 4월 = 46월 Rooms.

Designed to utilize fire resistive construction with columns set off center (15!-6" - 11!-6").

Stairs placed to make use of the main structural beam for framing.

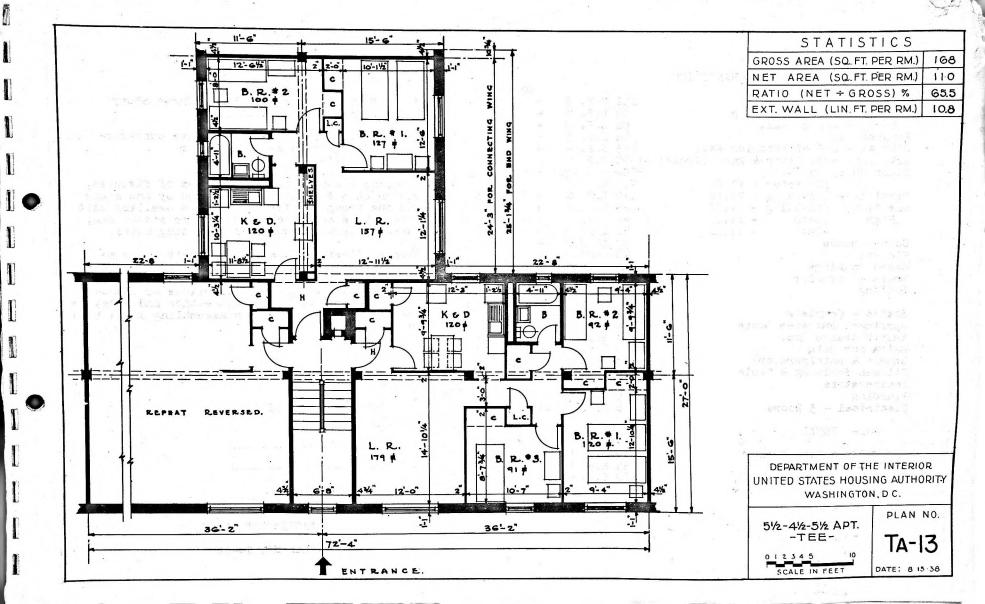
Plumbing arranged with all fixtures of each dwelling unit served by one stack,

Living Room arranged for privacy for sleeping with alternate access to bedrooms and bath through kitchen.

Unit may be used to connect two or three intersecting ribbons in assembling units into buildings.

> UNITED STATES HOUSING AUTHORITY TECHNICAL DIVISION WASHINGTON, D. C.

化超出的每个新闻 计网络问题 ??



General Excavation 141 C.Y. @ Foundation Wall & Footing 84 L.F. @ 3 Story Exterior Wall Parapet Wall Windows - 20% of Exterior Wall 1st. 2nd. 3rd. Floor & Roof (Gross) Floor Covering (Net) (Interior - Pl.2S Partitions (Dividing - Pl.1S One Story (Dividing - Pl.2S - P1.1S High (Bath (Bath - P1.2S Corner Beads Closets Cased Openings Doors - Interior Heating Stairs - Complete Apartment Entrance Doors Main Entrance Etc. Extra for Bath Ranges & Refrigerators Kitchen Shelving & Table Incinerators Plumbing Electrical - 3 Rooms

TOTAL

End Walls & Fire Walls Heating & Fuel Space Tenant Storage Space

84 L.F. @ 84 L.F. @ 453 S.F. @ 1099 S.F. @ 3036 S.F. @ 296 L.F. @ 119 L.F. @ 125 L.F. @ -- L.F. @ 72 L.F. @ 30 BEAD.@ 18 CLOS.@ 6 OPG. @ 30 DOOR.@ 29,700 C.F. @ 1 STR. @ 6 DOOR.@ 1 ENT. @ 6 D.U. @ 6 D.U. @ 6 D.U. @ 1 INC. @ 6 D.U. @ 6 D.U. @

Cost

10.8 L.F. @ 54 S.F. @ 120 S.F. @

TYPE OF UNIT

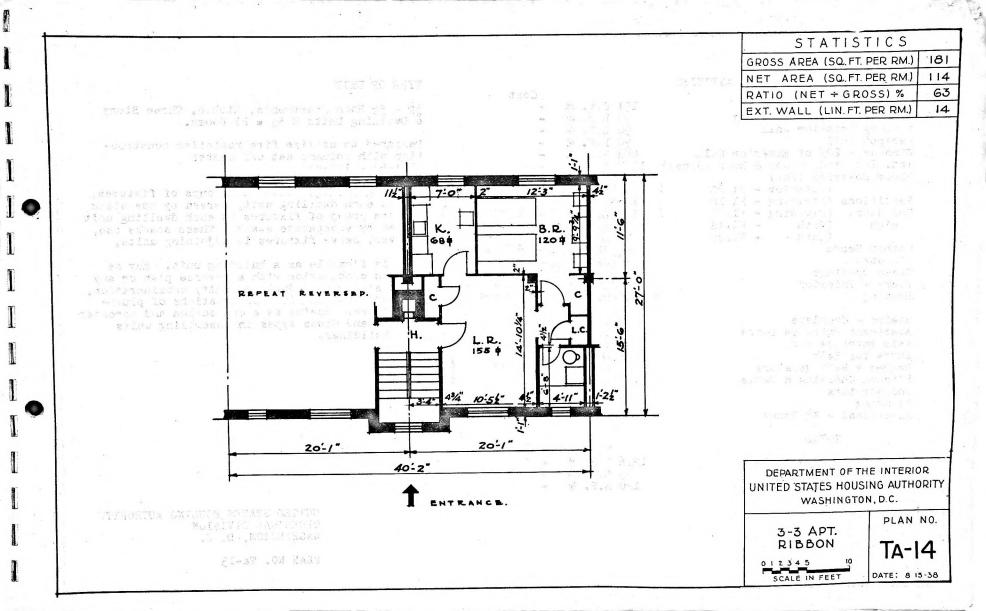
3 - 3 Room Apartments, Ribbon, Three Story 6 Dwelling Units @ 3 = 18 Rooms.

Designed to utilize fire resistive construction, with columns set off center (15! - 6" - 11! - 6").

Plumbing arranged with two groups of fixtures, one in each dwelling unit, served by one stack and one group of fixtures in each dwelling unit served by a separate stack. These stacks can. however, serve fixtures in adjoining units.

Plan is flexible as a building unit. May be used in combination with a reverse plan or any other size ribbon dwelling unit; consideration, however, must be given to locations of plumbing stacks. Useful as a connection and spreader for Tee and Cross types in assembling units into buildings.

> UNITED STATES HOUSING AUTHORITY TECHNICAL DIVISION WASHINGTON, D. C.



| General Excavation Foundation Wall & Footing 3 Story Exterior Wall Parapet Wall Windows - 20% of Exterior Wall | 90 90 90 | C.Y. @ L.F. @ L.F. @ L.F. @ S.F. @ |
|---|----------------|--|
| 1st. 2nd. 3rd. Floor & Roof (Gross) |) 1177 | S.F. @ |
| Floor Covering (Net) | | S.F. @ |
| (Interior - Pl.2S Partitions (Dividing - Pl.1S | | L.F. @ L.F. @ |
| One Story (Dividing - Pl.2S | | L.F. @ |
| High (Bath - Pl.1S | | L.F. @ |
| (Bath - Pl.2S Corner Beads | | L.F. @ BEAD.@ |
| Closets | | CLOS.@ |
| Cased Openings | | OPG. @ |
| Doors - Interior Heating | | DOOR.@ C.F. @ |
| neating | 51,000 | U.F. @ |
| Stairs - Complete Apartment Entrance Doors Main Entrance Etc. Extra for Bath Ranges & Refrigerators Kitchen Shelving & Table Incinerators Plumbing Electrical - 3 ¹ / ₂ Rooms | 6166616 | STR. @ DOOR.@ ENT. @ D.U. @ D.U. @ D.U. @ INC. @ D.U. @ D.U. @ |

TOTAL

End Walls & Fire Walls Heating & Fuel Space Tenant Storage Space TYPE OF UNIT

Cost

12.6 L.F. @

.120 S.F. @

63 S.F. @

 $3\frac{1}{2}$ - $3\frac{1}{2}$ Room Apartments, Ribbon, Three Story 6 Dwelling Units @ $3\frac{1}{2}$ = 21 Rooms.

Designed to utilize fire resistive construction with columns set off center (15'-6" - 11'-6").

Plumbing arranged with two groups of fixtures, one in each dwelling unit, served by one stack and one group of fixtures in each dwelling unit served by a separate stack. These stacks can, however, serve fixtures in adjoining units.

Plan is flexible as a building unit. May be used in combination with a reverse plan or any other size ribbon dwelling unit; consideration, however, must be given to locations of plumbing stacks. Useful as a connection and spreader for Tee and Cross types in assembling units into buildings.

> UNITED STATES HOUSING AUTHORITY TECHNICAL DIVISION WASHINGTON, D. C.

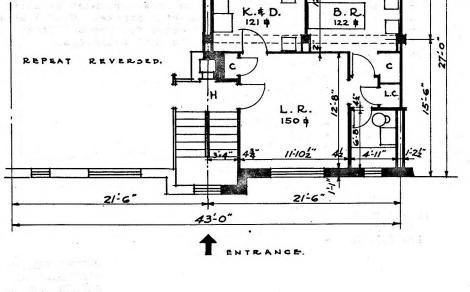
| | | | | STATISTICS | |
|--|----------------------|--------|--|------------------------------|------|
| | | | | GROSS AREA (SQ. FT. PER RM.) | 168 |
| | | | | NET AREA (SQ. FT. PER RM.) | 112 |
| casels, Mibbao, I ras Stor | eres we a set of the | · 清楚67 | | RATIO (NET + GROSS) % | 66.7 |
| i san i sa | | | | EXT. WALL (LIN FT PER RM.) | 12.8 |

10-5"

42

1

1



DEPARTMENT OF THE INTERIOR UNITED STATES HOUSING AUTHORITY WASHINGTON, D.C. 3%-3% APT. - RIBBON-TA-15

DATE: 8-15-38

012345

SCALE IN FEET

General Excavation Foundation Wall & Footing 3 Story Exterior Wall Parapet Wall Windows - 20% of Exterior Wall 1st. 2nd. 3rd. Floor & Roof (Gross) 1418 s.F. @ Floor Covering (Net) (Interior - Pl.2S Partitions (Dividing - Pl.1S One Story (Dividing - Pl.2S High - P1.1S (Bath - P1.2S (Bath Corner Beads Closets Cased Openings Doors - Interior Heating Stairs - Complete Apartment Entrance Doors Main Entrance Etc. Extra for Bath Ranges & Refrigerators Kitchen Shelving & Table

Incinerators

Electrical - 42 Rooms

End Walls & Fire Walls

Heating & Fuel Space Tenant Storage Space

TOTAL

Plumbing

-- L.F. @ 182 L.F. @ 84 L.F. @ 72 L.F. @ 54 BEAD.@ 24 CLOS.@ -- OPG. @ 36 DOOR.@ 38.300 C.F. @ 1 STR. @ 6 DOOR.@ 1 ENT. @ 6 D.U. @ 6 D.U. @ 6 D.U. @ 1 INC. @ 6 D.U. @ 6 D.U. @ 16.2 L.F. @ 81 S.F. @

120 S.F. @

181 C.Y. @

107 L.F. @

107 L.F. @

107 L.F. @

575 S.F. @

3908 S.F. @

341 L.F. @

Cost

TYPE OF UNIT

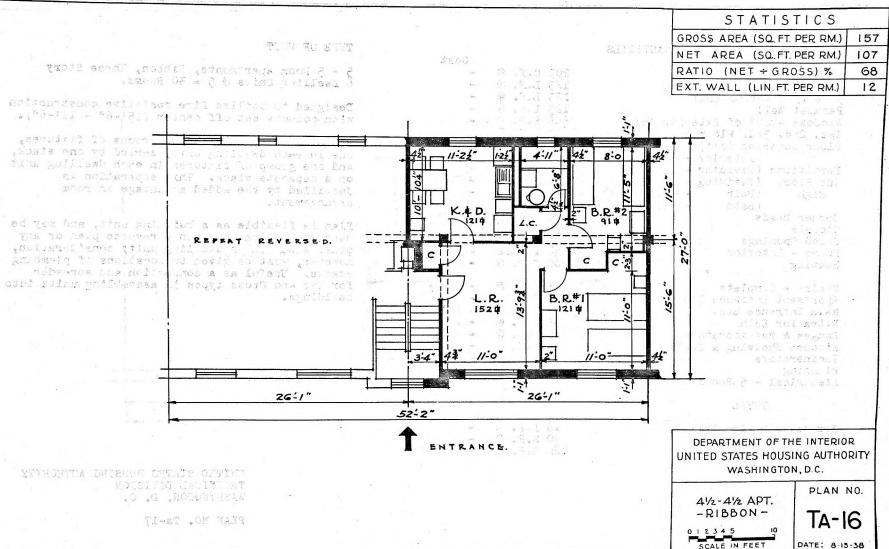
山子 - 山子 Room Apartments, Ribbon, Three Story 6 Dwelling Units @ 42 = 27 Rooms.

Designed to utilize fire resistive construction with columns set off center (15!-6" - 11!-6").

Plumbing arranged with all fixtures of each dwelling unit served by one stack.

Plan is flexible as a building unit. May be used in combination with a reverse plan or any other size ribbon dwelling unit; consideration, however, must be given to locations of plumbing stacks. Useful as a connection and spreader for Tee and Cross types in assembling units into buildings.

> UNITED STATES HOUSING AUTHORITY TECHNICAL DIVISION WASHINGTON. D. C.



| the second se | | - | |
|---|--------|--------------|----|
| General Excavation Foundation Wall & Footing | | C.Y. L.F. | |
| 3 Story Exterior Wall | | L.F. | |
| Parapet Wall | | L.F. | |
| Windows - 20% of Exterior Wall | | S.F. | |
| 1st. 2nd. 3rd. Floor & Roof (Gross) | 1638 | S.F. | |
| Floor Covering (Net) | 1.512 | S.F. | |
| (Interior - Pl.2S | | L.F. | |
| Partitions (Dividing - Pl.1S | | L.F. | |
| One Story (Dividing - Pl.2S | 111 | L.F. | @ |
| High (Bath - Pl.1S | | L.F. | |
| (Bath - Pl.2S) | | L.F. | |
| Corner Beads | 18 | BEAD | @ |
| Closets | 36 | CLOS | .@ |
| Cased Openings | | OPG. | |
| Doors - Interior | 1.8 | DOOR | .@ |
| Heating | 44,200 | | |
| Heating | 44,200 | 0.1. | 9 |
| Stairs - Complete | ٦ | STR. | @ |
| Apartment Entrance Doors | | DOOR | |
| Main Entrance Etc. | | ENT. | |
| Extra for Bath | | D.U. | |
| Ranges & Refrigerators | | D.U. | |
| Kitchen Shelving & Table | | D.U. | |
| Incinerators | | INC. | |
| Plumbing | | D.U. | |
| Electrical - 5 Rooms | 6 | D.U. | Q |
| HICOUTION , HOUND | | | - |
| TOTAT. | | | |

TOTAL

End Walls & Fire Walls Heating & Fuel Space Tenant Storage Space

TYPE OF UNIT

Cost

18 L.F. @

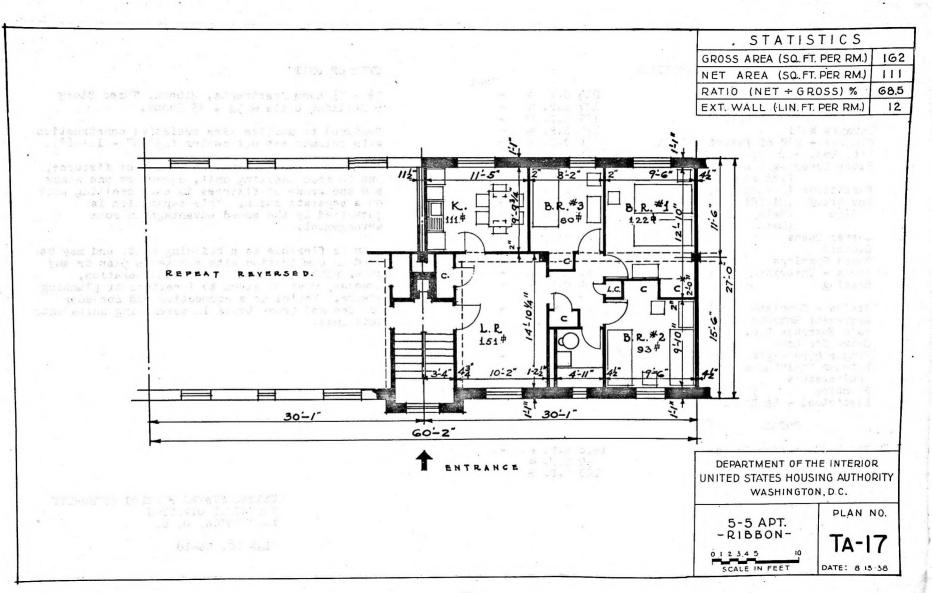
90 S.F. @ 120 S.F. @ 5 - 5 Room Apartments, Ribbon, Three Story 6 Dwelling Units @ 5 = 30 Rooms.

Designed to utilize fire resistive construction with columns set off center (15!-6" - 11!-6").

Plumbing arranged with two groups of fixtures, one in each dwelling unit, served by one stack, and one group of fixtures in each dwelling unit on a separate stack. This separation is justified by the added advantage in room arrangement.

Plan is flexible as a building unit, and may be used in combination with a reverse plan or any other size ribbon dwelling unit; consideration, however, must be given to locations of plumbing stacks. Useful as a connection and spreader for Tee and Cross types in assembling units into buildings.

> UNITED STATES HOUSING AUTHORITY TECHNICAL DIVISION WASHINGTON, D. C.



ACT

General Excavation Foundation Wall & Footing 3 Story Exterior Wall Parapet Wall Windows - 20% of Exterior Wall 1st. 2nd. 3rd. Floor & Roof (Gross) Floor Covering (Net) (Interior - Pl.2S Partitions (Dividing - Pl.1S One Story (Dividing - Pl.2S High (Bath - P1.1S (Bath - Pl.2S Corner Beads Closets Cased Openings Doors - Interior Heating Stairs - Complete Apartment Entrance Doors Main Entrance Etc. Extra for Bath Ranges & Refrigerators Kitchen Shelving & Table Incinerators Plumbing Electrical - 5th Rooms

TOTAL

End Walls & Fire Walls Heating & Fuel Space Tenant Storage Space

4638 S.F. @ 505 L.F. @ 78 L.F. @ 144 L.F. @ 84 L.F. @ 72 L.F. @ 48 BEAD.@ 36 CLOS.@ 6 OPG. @ L8 DOOR.@ 45,500 C.F. @ 1 STR. @ 6 DOOR.@ 1 ENT. @ 6 D.U. @ 6 D.U. @ 6 D.U. @ l INC. @ 6 D.U. @

6 D.U. @

19.8 L.F. @

120 S.F. @

99 S.F. @

215 C.Y. @

127 L.F. @

127 L.F. @ 127 L.F. @ 686 S.F. @

1684 S.F. @

Cost

TYPE OF UNIT

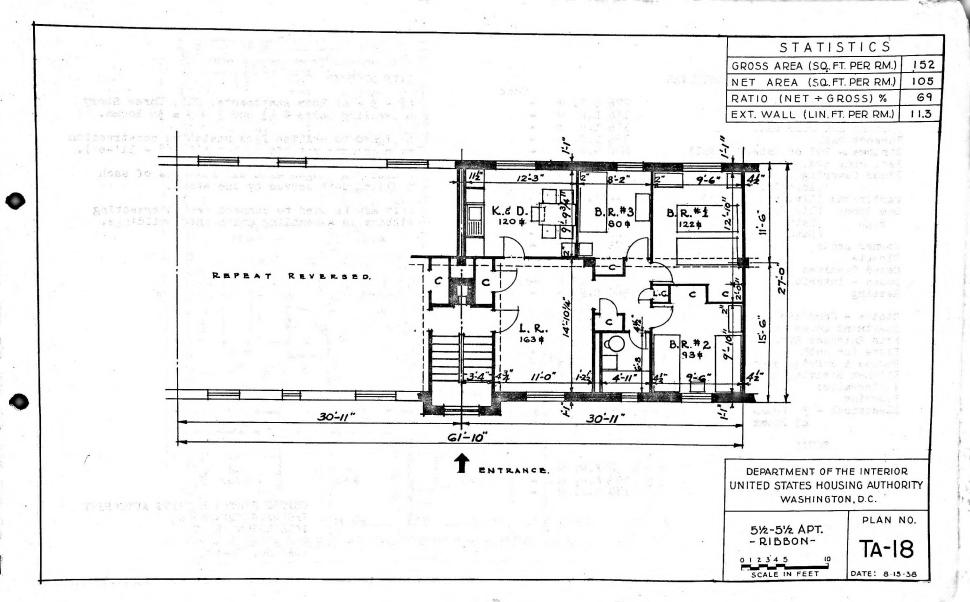
5불 - 5불 Room Apartments, Ribbon, Three Story 6 Dwelling Units @ 5 = 33 Rooms.

Designed to utilize fire resistive construction with columns set off center (15!-6" - 11!-6").

Plumbing arranged with two groups of fixtures, one in each dwelling unit, served by one stack and one group of fixtures in each dwelling unit on a separate stack. This separation is justified by the added advantage in room arrangement.

Plan is flexible as a building unit, and may be used in combination with a reverse plan or any other ribbon dwelling unit; consideration, however, must be given to locations of plumbing stacks. Useful as a connection and spreader for Tee and Cross types in assembling units into buildings.

> UNITED STATES HOUSING AUTHORITY TECHNICAL DIVISION WASHINGTON, D. C.



| General Excavation | 276 | 6 C.Y. | . @ |
|--|--------|----------------------|-----|
| Foundation Wall & Footing | 156 | L.F. | . @ |
| 3 Story Exterior Wall | 156 | L.F. | . @ |
| Parapet Wall | 154 | TF | 6 |
| Windows - 20% of Exterior Wall | 81.6 | S.F. | @ |
| 1st. 2nd. 3rd. Floor & Roof (Gross) | 2165 | S.F. | 6 |
| Floor Covering (Net) | 5986 | S.F. | a |
| (Interior - Pl.2S | 507 | L.F. | @ |
| Partitions (Dividing - Pl.1S | | L.F. | |
| One Story (Dividing - Pl.2S | 303 | L.F. | |
| High (Bath - Pl.1S | | L.F. | |
| (Bath - Pl.2S | | L.F. | |
| Corner Beads | | BEAD | |
| Closets | 39 | CLOS | .@ |
| Cased Openings | 12 | OPG. | @ |
| Doors - Interior | 48 | DOOR | .@ |
| Heating | ,8,500 | | |
| and the second | | | |
| Stairs - Complete | | STR. | |
| Apartment Entrance Doors | 9 | DOOR | .@ |
| Main Entrance Etc. | 1 | ENT. | 0 |
| Extra for Bath | 9 | D.U. | @ |
| Ranges & Refrigerators | 9 | D.U. | @ |
| Kitchen Shelving & Table | 9 | D.U. D.U. INC. | @ |
| Incinerators | 1 | INC. | @ |
| Plumbing | 9 | D.U. | @ |
| Electrical - 3 Rooms | 36 | D.U. | |
| 4½ Rooms | 6 | D.U. | @ |
| | | | |
| TOTAL | | | |
| | -1 | | ~ |
| End Walls & Fire Walls | 36 | L.F. | @ |

End Walls & Fire Walls Heating & Fuel Space Tenant Storage Space

Cost

108 S.F. @ 180 S.F. @

TYPE OF UNIT

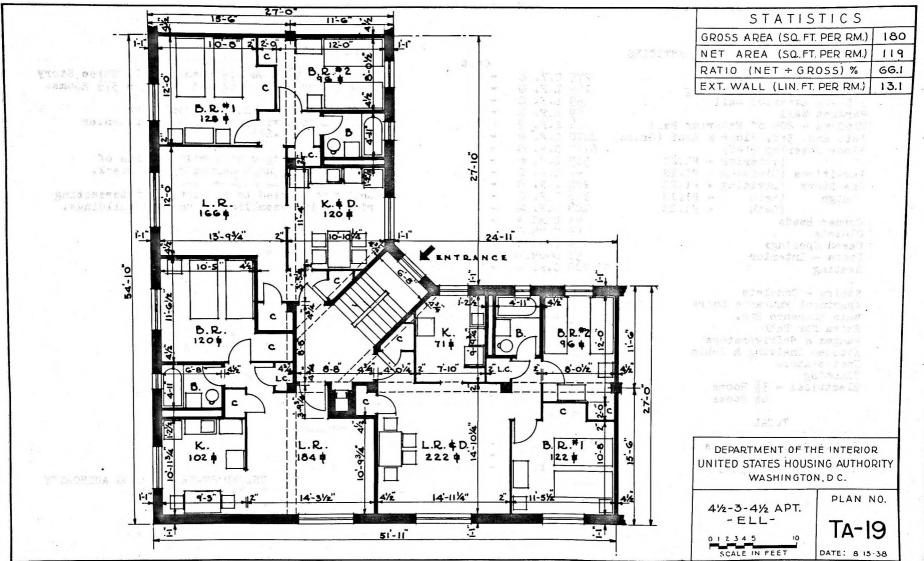
 $4\frac{1}{2}$ - 3 - $4\frac{1}{2}$ Room Apartments, Ell, Three Story 6 Dwelling Units @ $4\frac{1}{2}$ and 3 @ 3 = 36 Rooms.

Designed to utilize fire resistive construction with columns set off center (15'-6'' - 11'-6'').

Plumbing arranged with all fixtures of each dwelling unit served by one stack.

Unit may be used to connect two intersecting ribbons in assembling units into buildings.

UNITED STATES HOUSING AUTHORITY TECHNICAL DIVISION WASHINGTON. D. C.



General Excavation Foundation Wall & Footing 3 Story Exterior Wall Parapet Wall Windows - 20% of Exterior Wall 1st. 2nd. 3rd. Floor & Roof (Gross) Floor Covering (Net) (Interior - Pl.2S Partitions (Dividing - Pl.1S One Story (Dividing - Pl.2S High (Bath - P1.15 (Bath - P1.2S Corner Beads Closets Cased Openings Doors - Interior Heating Stairs - Complete Apartment Entrance Doors Main Entrance Etc. Extra for Bath Ranges & Refrigerators Kitchen Shelving & Table Incinerators Plumbing Electrical - 3불 Rooms LE Rooms

TOTAL

End Walls & Fire Walls Heating & Fuel Space Tenant Storage Space Cost

275 C.Y. @ 159 L.F. @ 159 L.F. @ 159 L.F. @ 864 S.F. @ 2210 S.F. @ 6110 S.F. @ 519 L.F. @ -- L.F. @ 288 L.F. @ 126 L.F. @ 108 L.F. @ 93 BEAD.@ 45 CLOS.@ 6 OPG. @ 51 DOOR.@ 59,700 C.F. @ 1 STR. @ 9 DOOR.@

1 ENT. @ 9 D.U. @ 9 D.U. @ 9 D.U. @ 9 D.U. @ 1 INC. @ 9 D.U. @ 3 D.U. @ 6 D.U. @

37.5 L.F. @

113 S.F. @

180 S.F. @

TYPE OF UNIT

and the second second second second second second

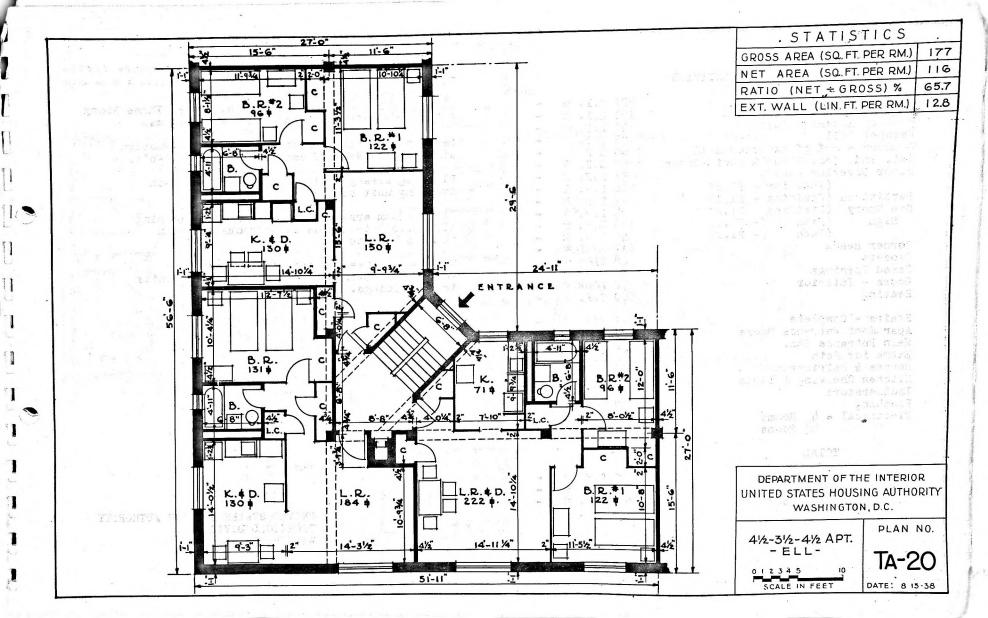
4월 - 3월 - 4월 Room Apartments, Ell, Three Story 6 Dwelling Units @ 4월 and 3 @ 3월 = 37월 Rooms.

Designed to utilize fire resistive construction with columns set off center (15'-6" - 11'-6").

Plumbing arranged with all fixtures of each dwelling unit served by one stack.

Unit may be used to connect two intersecting ribbons in assembling units into buildings.

UNITED STATES HOUSING AUTHORITY TECHNICAL DIVISION WASHINGTON, D. C.



General Excavation Foundation Wall & Footing 3 Story Exterior Wall Parapet Wall Windows - 20% of Exterior Wall 1st. 2nd. 3rd. Floor & Roof (Gross) Floor Covering (Net) (Interior - Pl.2S Partitions (Dividing - Pl.1S One Story (Dividing - Pl.2S High (Bath - Pl.1S - P1.2S (Bath Corner Beads Closets Cased Openings Doors - Interior Heating Stairs - Complete Apartment Entrance Doors Main Entrance Etc. Extra for Bath Ranges & Refrigerators Kitchen Shelving & Table Incinerators

Plumbing Electrical - 4 Rooms 식코 Rooms

TOTAL

End Walls & Fire Walls Heating & Fuel Space Tenant Storage Space

Cost 401 C.Y. @ 191 L.F. @ 191 L.F. @ 191 L.F. @ 1008 S.F. @ 3250 S.F. @ 9131 S.F. @ 710 L.F. @ -- T.F. @ 498 L.F. @ 168 L.F. @ 144 L.F. @ 132 BEAD.@ L8 CLOS.@ 12 OPG. @ 72 DOOR.@ -87,800 C.F. @ 1 STR. @ 12 DOOR.@ 1 ENT. @ 12 D.U. @ .-12 D.U. @

> 12 D.U. @ 1 INC. @

12 D.U. @

3 D.U. @ 9 D.U. @

78.75 L.F. @ 158 S.F. @

240 S.F. @

TYPE OF UNIT

 $4\frac{1}{2} - 4\frac{1}{2} - 4$ - $4\frac{1}{2}$ Room Apartments, Cross, Three Story 9 Dwelling Units @ $4\frac{1}{2}$ and 3 @ $4 = 52\frac{1}{2}$ Rooms.

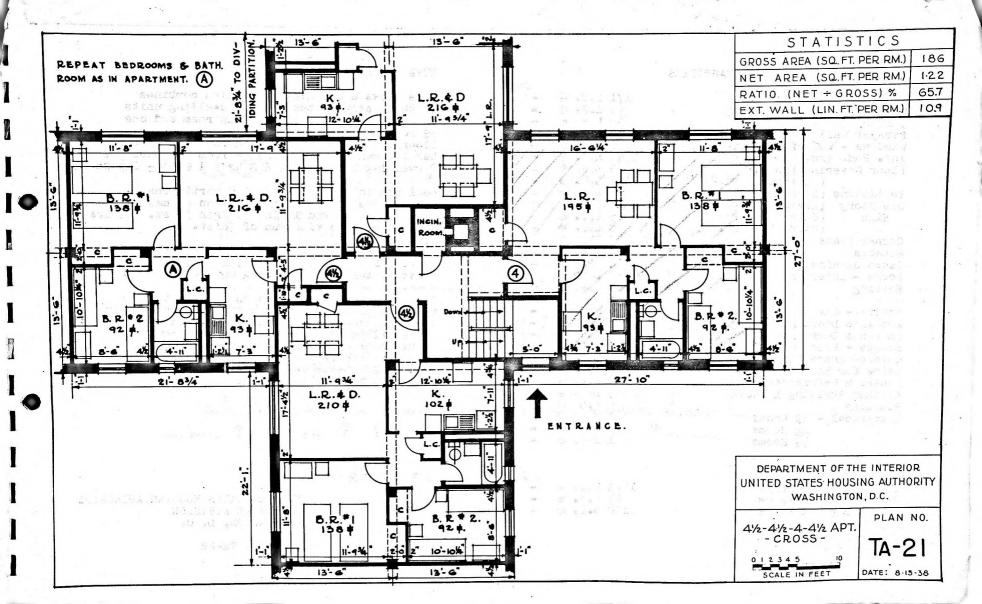
Designed to utilize fire resistive construction with columns set off center (15'-6'' - 11'-6'').

Plumbing arranged with all fixtures of each dwelling unit served by one stack.

Living Room arranged for privacy for sleeping with alternate access to bedrooms and bath through kitchen.

Unit may be used to connect two, three or four intersecting ribbons in assembling units into buildings.

> UNITED STATES HOUSING AUTHORITY TECHNICAL DIVISION WASHINGTON. D. C.



General Excavation Foundation Wall & Footing 3 Story Exterior Wall Parapet Wall Windows - 20% of Exterior Wall 1st. 2nd. 3rd. Floor & Roof (Gross) Floor Covering (Net) (Interior - Pl.2S Partitions (Dividing - Pl.1S One Story (Dividing - Pl.2S - Pl.1S High (Bath - P1.2S (Bath Corner Beads Closets Cased Openings Doors - Interior Heating Stairs - One Story Flights Entrance Doors Front Entrance Doors Rear Stoops - Front & Rear Covered Entry (Double) Extra for Bath Ranges & Refrigerators Kitchen Shelving & Table

Kitchen Shelving & Tabl Plumbing Electrical - 3출 Rooms 4章 Rooms 5호 Rooms

TOTAL

End Walls & Firewalls Heating & Fuel Space Tenant Storage Space

3696 S.F. @ 293 L.F. @ 1/16 L.F. @ 188 L.F. @ 15 L.F. @ 70 L.F. @ L9 BEAD.@ 22 CLOS.@ 5 OPG. @ 25 DOOR.@ 36,200 C.F. @ 6 FLGT.@ 5 DOOR.@ 2 DOOR.@ 7 STP. @ - ENTY.@ 5 D.U. @ 5 D.U. @ 5 D.U. @ 5 D.U. @ 2 D.U. @ 2 D.U. @ 1 D.U. @ 18.3 L.F. @ 65 S.F. @

100 S.F. @

171 C.Y. @

99 L.F. @

99 L.F. @

536 S.F. @

1341 S.F. @

99 L.F. @

Cost

TYPE OF UNIT

This shows a building unit which combines in three stories two $3\frac{1}{2}$ room dwelling units on the first floor with two $4\frac{1}{2}$ room and one $5\frac{1}{2}$ room units on the second and third floors so arranged that each dwelling unit has its own private entrance from the outside. 2 Dwelling Units @ $3\frac{1}{2}$, 2 @ $4\frac{1}{2}$ & 1 @ $5\frac{1}{2}$ = $21\frac{1}{2}$ Rooms.

Designed to utilize wood stud partitions with off center bearing partition to make full use of 12 and 14 foot length joist. Stairs placed to frame with run of joist.

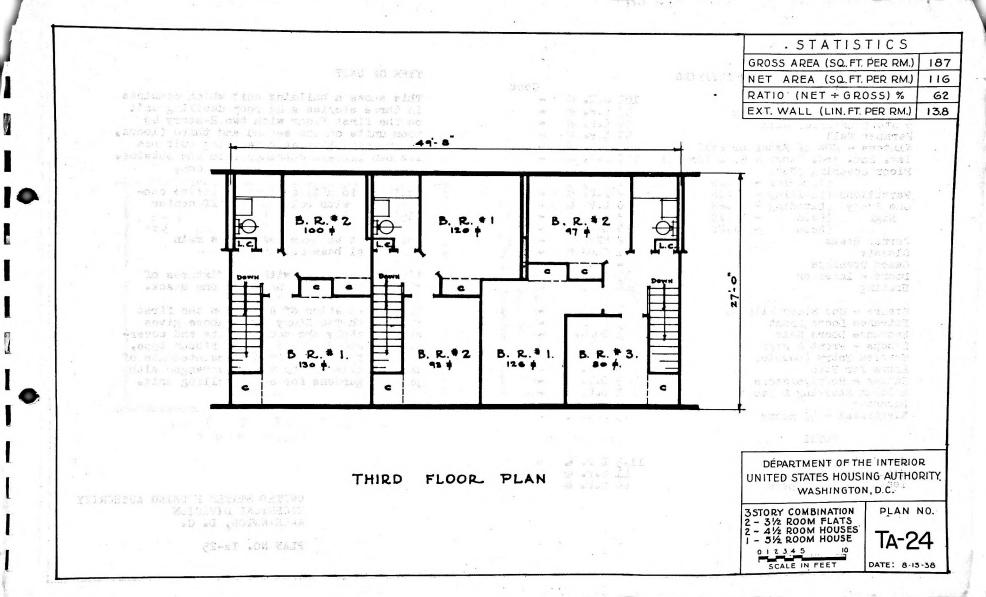
Plumbing arranged with ten groups of fixtures on four stacks. Two stacks, however, can serve fixtures in adjoining units.

This combination of Flats on the first floor with Two Story Units above gives approximately the same density and coverage of land as three story, ribbon type, apartments but requires no maintenance of public hallways, and may be arranged with private gardens for each dwelling unit. See sheets Ta-23 and Ta-24 for second and third floor plans.

> UNITED STATES HOUSING AUTHORITY TECHNICAL DIVISION WASHINGTON, D. C.

| | | | | STATIS GROSS AREA (SQ.F NET AREA (SQ.F RATIO (NET + GR EXT. WALL (LIN.F | T. PER RM.) 18 T. PER RM.) 11 ROSS) % 6 |
|-----------------------|--|-------------------------|----------------|--|---|
| - t | 41:8 | 1 | ,• | | |
| K & D. 144 y | B. R. 123 \$. | | | | |
| с | с 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | L.e c B. R i30 #. | c | | |
| ENT. 210 FL. T ENT. T | 1 BNT. 240 PL. | т. Т. | T ENT. 200 FL. | | |
| S FIF | 2ST FLOOR. | PLAN. | | DEPARTMENT OF T UNITED STATES HOU WASHINGT | SING AUTHORIT |
| | | | | 3 STORY COMBINATIO 2 - 31/2 ROOM FLATS 2 - 41/2 ROOM HOUSE 1 - 51/2 ROOM HOUSE 6 1 2 3 4 50 SCALE IN FEET | N PLAN NO. TA-22 DATE: 8-15-38 |

| | | STATISTICS |
|---|---|---|
| | | GROSS AREA (SQ. FT. PER RM.) 187 |
| | | NET AREA (SQ.FT. PER RM.) 116 |
| | | RATIO (NET ÷ GROSS) % 62 |
| | | EXT. WALL (LIN. FT. PER RM.) 13.8 |
| | 49'- 8° | |
| | | |
| • | | |
| | | |
| | $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | |
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| | L. R. L. R. L. R. $151 \neq$ $171 \neq$ $160 \neq$ | ' U |
| | | 4 |
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| | | |
| | SECOND FLOOR PLAN | DEPARTMENT OF THE INTERIOR |
| | | UNITED STATES HOUSING AUTHORITY WASHINGTON, D.C. |
| | | |
| | | 2 - 312 ROOM FLATS |
| | | 1-51/2 ROOM HOUSES TA-23 |
| | | 0 1 2 3 4 5 10 SCALE IN FEET DATE: 8-13-38 |



j,

General Excavation 102 C.Y. @ Foundation Wall & Footing 59 L.F. @ 3 Story Exterior Wall 59 L.F. @ Parapet Wall 59 L.F. @. -Windows - 20% of Exterior Wall 212 S.F. @ 1st. 2nd. 3rd. Floor & Roof (Gross) 797 S.F. @ Floor Covering (Net) 2197 S.F. @ (Interior - Pl.2S 156 L.F. @ Partitions (Dividing - Pl.18 - L.F. @ One Story (Dividing - Pl.2S 150 L.F. @ High (Bath - Pl.1S 43 L.F. @ - P1.28 (Bath 36 L.F. @ Corner Beads 52 BEAD.@ Closets IL CLOS.@ -Cased Openings - OPG. @ -Doors - Interior 15 DOOR.@ -Heating 21,500 C.F. @ Stairs - One Story Flights 4 FLGT.@ Entrance Doors Front 3 DOOR.@ Entrance Doors Rear 1 DOOR.@ Stoops - Front & Rear 4 STP. @ Covered Entry (Double) - ENTY.@ Extra for Bath 3 D.U. @ Ranges & Refrigerators 3 D.U. @ Kitchen Shelving & Table 3 D.U. @ -Plumbing 3 D.U. @ -Electrical - 42 Rooms 3 D.U. @ TOTAL End Walls & Firewalls 11.5 L.F. @ Heating & Fuel Space 41 S.F. @ 60 S.F. @ Tenant Storage Space

Cost

TYPE OF UNIT

THEO FLOOR

This shows a building unit which combines in three stories a 4 room dwelling unit on the first floor with two 2-story 42 room units on the second and third floors. so arranged that each dwelling unit has its own private entrance from the outside. 3 Dwelling Units @ 4章 = 13章 Rooms.

Designed to utilize fire resistive construction with columns set off center (15! - 2" - 11! - 10").

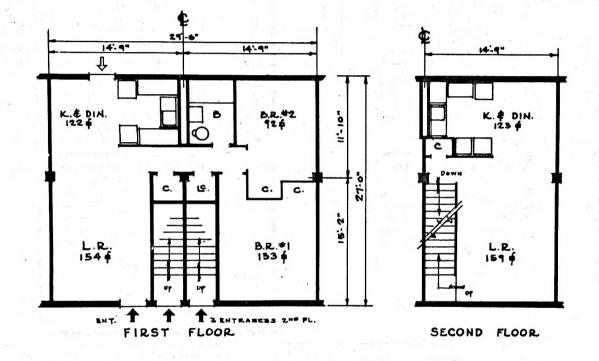
Stairs set to make use of the main structural beam for framing.

Plumbing arranged with all fixtures of the three dwelling units on one stack.

This combination of a Flat on the first floor with Two Story Units above gives approximately the same density and coverage of land as three story, ribbon type, apartments but requires no maintenance of public hallways and may be arranged with private gardens for each dwelling unit.

> UNITED STATES HOUSING AUTHORITY TECHNICAL DIVISION WASHINGTON, D. C.

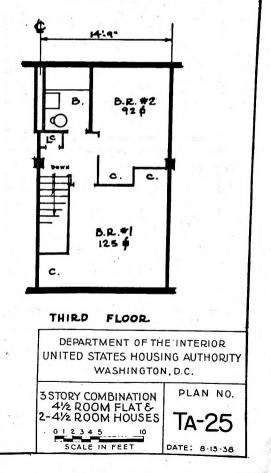
STATISTICS GROSS AREA (SQ.FT.PER RM.) 177 NET AREA (SQ.FT.PER RM.) 111 RATIO (NET + GROSS) % 62.7 EXT. WALL (LIN.FT.PER RM.) 13.1

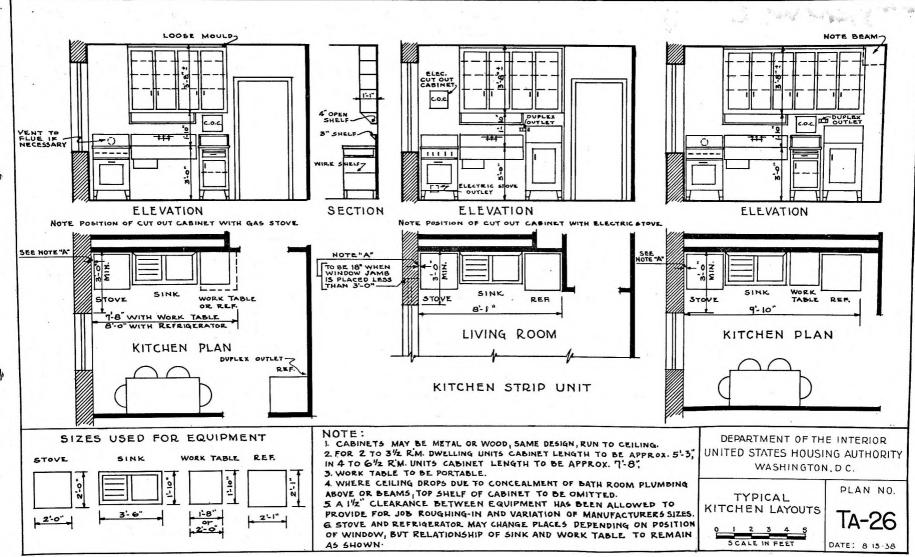


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Henry Borriello

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|-------|---|---|---|---|--|---|---|--|---|---|---|--|----|------|-----|------|----|------|----|------|----------|------|-------|--------------|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|--|---|--|--|--|---|-----|--|--|---|-----|--|--|---|----|--|--|--|--|--|
| ROOM | S PER | 2 D.U. | 01 | B.R. | | 1 6 | 3.R | | | 2 E | 3. R. | | | 3 B | .R. | | | 48 | .R | - | TO | 770 | 1 2 . | S , | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 2 | 21/2 | 2 | 21/2 | 3 | 31/2 | 3 | 31/2 | 4 | 41/2 | 4 | 41/2 | 5 | 51/2 | 5 | 51/2 | 6 | 61/2 | 24 | DMC | 1/2 | RMST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | TYPE BLDG. | No. OF BLDGS. | | N | 01 | NB | E | R | C | F | L | DW. | εL | 611 | VG | | UN | 1175 | 3 | | 0.0. | R MQ | RMS. | 1/2 RMS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | A | 2 | | | | 6 | 6 | | | | | 42 | | | | | | | | | 54 | 198 | 48 | 222 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 34 | B | 2 | | | | 6 | 6 | | | | | 42 | | | | | | | | • | 54 | 198 | 48 | 222 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | C | 1 | | | | | | 3 | | | | 15 | | | | | | | | | 18 | 69 | 18 | 78 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 0 | 1 | | | | | | 3 | | | • | 15 | | | | | | | | | 18 | 69 | 18 | 78 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | E | 1 | | | | 9 | | 6 | | | | 36 | | | | | | | | | 51 | 180 | 51 | 205/2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | F | 1 | | | | 9 | | 6 | | | | 36 | | | | | | | | | 51 | 180 | 51 | 2051/2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | G | 2 | | | | | | 12 | | | | 60 | | | | | | | | | 72 | 276 | 72 | 312 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| TOTA | LA | P78. | | | | 30 | 12 | 30 | | | | 246 | | | | | | | | | 318 | 1170 | 306 | 1323 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | H | 18 | | | | | | | - | | 72 | | | | 36 | | | | | | 108 | 468 | | 468 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/2 | I | 12 | | | | | | | | | 60 | | | | 36 | | | | | | 96 | 420 | | 420 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | J | 6 | | | | | | | | | 18 | | | | 6 | | | | | | 24 | 102 | | 102 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | K | 4 | | | | | | | | | 24 | | | | 16 | | | | | | 40 | 176 | | 176 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | L | 6 | | | | | | | | | | | | | | | | 36 | | 36 | | | 72 | 432 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | M | 5 | | | | | | | 30 | | | | 10 | | ļ | | | | | | 40 | 130 | | 130 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | 20 | | MA | | 10 | | 91 | | - | 36 | - | 36 | 380 | 1692 | 72 | 1728 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | - | T | 1- | | - | | 24 | | 50 | 24 | | | 10 | | | | - | | - | | | | | 156 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 16 | | | 24 | - | - | 47 | | | | | - | | | | | | | | | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | - | 0 | 26 | 10 | - | | - | - | | | 34 | | | - | - | | | - | - | | | | | 216 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| TOT | 94 F | LATS | 46 | 16 | 1 | | 24 | | | 24 | 46 | | | | | | | | 1 | | 156 | 452 | 40 | 472 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AND | TOTA | 72 | 46 | 16 | 1 | 30 | 36 | 30 | 30 | 24 | 220 | 2.46 | 10 | | 94 | | | 36 | | 36 | 854 | 33/4 | 418 | 3523 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ROOM: MS P. NOI:55 STORIES 3 4 3 4 3 4 3 3 3 3 3 3 3 3 3 3 | ROOMS PER MS PER MS PER NO. STORIES 34 34 34 35 35 36 37 37 37 37 38 39 36 37 38 39 30 315 316 317 318 318 318 318 318 318 318 318 318 318 318 318 318 3218 318 3218 3218 3218 3218 3218 3218 3218 3218 3218 3218 3218 3218 3218 <tr< td=""><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>ROOMS PER D.U. 2 MS PER D.U. 2 NO. TYPE NO. OF $3/4$ A 2 $3/4$ B 2 $1/100000000000000000000000000000000000$</td><td>ROOMS PER D.U. O B.R. MS PER D.U. 2 21/2 NO. TYPE NO. OF STORIES BLOG, BLODS. N $3/4$ 4 2 1 $3/4$ 4 2 1 $3/4$ 8 2 1 $3/4$ 7 1 1 $3/4$ 7 1 1 $3/4$ 7 $1/2$ 1 $2/4$ $1/2$ $1/2$ $1/2$ $2/4$ $1/2$ $1/2$ $1/2$ $2/4$ $1/4$ $1/2$ $1/4$</td><td>ROOMS PER D.U. Q B.R. MS PER D.U. 2 21/2 2 NO. TYPE WO. OF STORIES BLOG. BLOGS N U $3/4$ 4 2 1 1 $3/4$ 7 2 $1/2$ 1 $3/4$ 7 1 1 1 $3/4$ 7 $1/4$ 1 1 $3/4$ 7 $1/4$ $1/4$ $1/4$ $2/4$ $1/4$ $1/4$ $1/4$ $1/4$<td>ROOMS PER D.U. O $B.R.$ I A MS PER D.U. 2 $21/2$ 2 $21/2$ 2 $21/2$ NO. TYPE WO. OF N M B A 2 $21/2$ $21/2$ $21/2$ STORIES BLOGS N M B A 2 $21/2$ $21/2$ $3/4$ A 2 A 6 3 A 2 $4/2$ 6 3 G 1 A 2 A 6 3 G 2 A A 7 7 3 G 2 A 7 7</td><td>ROOMS PER D.U. O B.R. I B.R MS PER D.U. Z $2/2$ Z $2/2$ $2/2$<td>ROOMS PER D.U. Q B.R. I B.R. MS PER D.U. Z $2/2$ Z $2/2$ $3/2$ NO. TYPE MO. OF STORIES BLOGS N U M B E R $3/4$ A Z G G $3/4$ A Z G G G $3/4$ B Z G G G $3/4$ D I G G G $1/2$ I I <</td><td>ROOMS PER D.U. Q B.R. I B.R. MS PER D.U. Z $2/2$ Z $2/2$ $3/2$ $3/2$ 3 NO. TYPE WO.OF N U M B E R G $3/4$ 4 2 4 2 4 2 4 2 4 2 6 6 $3/2$ $3/2$</td><td>ROOMS PER D.U. O B.R. I B.R. Z E MS PER D.U. Z 2/2 Z 2/2 Z 3/2 3 3/2 3 3/2 3 3/2 NO. TYPE NO. OF BLOG, BLOSS N U M B E C OF 0 3 A Z 6 6 0 3 A Z 6 6 0 3 A Z 6 6 0 3 A Z 6 6 0 3 A Z 6 6 0 3 D 1 3 3 3 3 3 D 1 9 6 3 3 F 1 9 6 3 3 G Z 1/2 1/2 1/2 1 9 6 1 1 1/2 2 H 18 1 1 1 2 J 6 1 1 1 2 J 6 1 1 1</td><td>ROOMS PER D.U. Z Z/2 Z </td></td></td></tr<> | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | ROOMS PER D.U. 2 MS PER D.U. 2 NO. 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I B.R MS PER D.U. Z $2/2$ Z $2/2$ $2/2$<td>ROOMS PER D.U. Q B.R. I B.R. MS PER D.U. Z $2/2$ Z $2/2$ $3/2$ NO. TYPE MO. OF STORIES BLOGS N U M B E R $3/4$ A Z G G $3/4$ A Z G G G $3/4$ B Z G G G $3/4$ D I G G G $1/2$ I I <</td><td>ROOMS PER D.U. Q B.R. I B.R. MS PER D.U. Z $2/2$ Z $2/2$ $3/2$ $3/2$ 3 NO. TYPE WO.OF N U M B E R G $3/4$ 4 2 4 2 4 2 4 2 4 2 6 6 $3/2$ $3/2$</td><td>ROOMS PER D.U. O B.R. I B.R. Z E MS PER D.U. Z 2/2 Z 2/2 Z 3/2 3 3/2 3 3/2 3 3/2 NO. TYPE NO. OF BLOG, BLOSS N U M B E C OF 0 3 A Z 6 6 0 3 A Z 6 6 0 3 A Z 6 6 0 3 A Z 6 6 0 3 A Z 6 6 0 3 D 1 3 3 3 3 3 D 1 9 6 3 3 F 1 9 6 3 3 G Z 1/2 1/2 1/2 1 9 6 1 1 1/2 2 H 18 1 1 1 2 J 6 1 1 1 2 J 6 1 1 1</td><td>ROOMS PER D.U. Z Z/2 Z </td></td> | ROOMS PER D.U. O $B.R.$ I A MS PER D.U. 2 $21/2$ 2 $21/2$ 2 $21/2$ NO. TYPE WO. OF N M B A 2 $21/2$ $21/2$ $21/2$ STORIES BLOGS N M B A 2 $21/2$ $21/2$ $3/4$ A 2 A 6 3 A 2 $4/2$ 6 3 G 1 A 2 A 6 3 G 2 A A 7 7 3 G 2 A 7 | ROOMS PER D.U. O B.R. I B.R MS PER D.U. Z $2/2$ <td>ROOMS PER D.U. Q B.R. I B.R. MS PER D.U. Z $2/2$ Z $2/2$ $3/2$ NO. TYPE MO. OF STORIES BLOGS N U M B E R $3/4$ A Z G G $3/4$ A Z G G G $3/4$ B Z G G G $3/4$ D I G G G $1/2$ I I <</td> <td>ROOMS PER D.U. Q B.R. I B.R. MS PER D.U. Z $2/2$ Z $2/2$ $3/2$ $3/2$ 3 NO. TYPE WO.OF N U M B E R G $3/4$ 4 2 4 2 4 2 4 2 4 2 6 6 $3/2$ $3/2$</td> <td>ROOMS PER D.U. O B.R. I B.R. Z E MS PER D.U. Z 2/2 Z 2/2 Z 3/2 3 3/2 3 3/2 3 3/2 NO. TYPE NO. OF BLOG, BLOSS N U M B E C OF 0 3 A Z 6 6 0 3 A Z 6 6 0 3 A Z 6 6 0 3 A Z 6 6 0 3 A Z 6 6 0 3 D 1 3 3 3 3 3 D 1 9 6 3 3 F 1 9 6 3 3 G Z 1/2 1/2 1/2 1 9 6 1 1 1/2 2 H 18 1 1 1 2 J 6 1 1 1 2 J 6 1 1 1</td> <td>ROOMS PER D.U. Z Z/2 Z </td> | ROOMS PER D.U. Q B.R. I B.R. MS PER D.U. Z $2/2$ Z $2/2$ $3/2$ NO. TYPE MO. OF STORIES BLOGS N U M B E R $3/4$ A Z G G $3/4$ A Z G G G $3/4$ B Z G G G $3/4$ D I G G G $1/2$ I I < | ROOMS PER D.U. Q B.R. I B.R. MS PER D.U. Z $2/2$ Z $2/2$ $3/2$ $3/2$ 3 NO. TYPE WO.OF N U M B E R G $3/4$ 4 2 4 2 4 2 4 2 4 2 6 6 $3/2$ | ROOMS PER D.U. O B.R. I B.R. Z E MS PER D.U. Z 2/2 Z 2/2 Z 3/2 3 3/2 3 3/2 3 3/2 NO. TYPE NO. OF BLOG, BLOSS N U M B E C OF 0 3 A Z 6 6 0 3 A Z 6 6 0 3 A Z 6 6 0 3 A Z 6 6 0 3 A Z 6 6 0 3 D 1 3 3 3 3 3 D 1 9 6 3 3 F 1 9 6 3 3 G Z 1/2 1/2 1/2 1 9 6 1 1 1/2 2 H 18 1 1 1 2 J 6 1 1 1 2 J 6 1 1 1 | ROOMS PER D.U. Z Z/2 Z | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

EXAMPLE: THERE ARE TWO TYPE A APARTMENT BUILDINGS EACH THREE AND FOUR STORIES HIGH, AND EACH CONTAIN 3-24 ROOM D.U.; 3-3 ROOM D.U. AND 21-44 ROOM D.U. UNDER THE COLUMN HEADED TOTALS" IS LISTED 'D.U.", OR DWELLING UNITS = 54 (TOTAL FOR TYPE A BUILDINGS), "RMS" (ROOMS) = 198; "1/2 RMS" (ACTUAL NO. OF ONE HALF ROOMS) = 48; "RMS + 1/4 RMS" = 198+ 48 = 222 (WHICH IS THE TOTAL NUMBER OF ROOMS FOR TYPE A BLDGS)

1/2 ROOMS = ALLOWABLE AREAS TO BE COUNTED AS ONE HALF ROOMS AS LISTED IN THE BULLETIN.

WHERE A BUILDING CONTAINS BOTH HOUSES AND FLATS, SUCH AS BUILDINGS "J" AND"K" THE BUILD-ING WILL BE LISTED TWICE, ONCE UNDER HOUSES" FOR D.U. OF THIS TYPE AND ONCE UNDER "FLATS" FOR DU. OF THIS TYPE. THE TOTAL NUMBER OF SUCH COMBINATION BUILDINGS IS ONLY LISTED ONCE.

> DEPARTMENT OF THE INTERIOR UNITED STATES HOUSING AUTHORITY WASHINGTON, D C.

SAMPLE ROOM SCHEDULE FOR PRELIMINARY SUBMITTAL ONLY