

PROJECT ANALYSIS

NORRIS



THE AMERICAN INSTITUTE OF ARCHITECTS ARCHIVES
1735 New York Ave. NW, Washington, DC 20006

PA-2-14
225 DWELLINGS
INITIAL OCCUPANCY 1954

THE PHILADELPHIA HOUSING AUTHORITY

OCTOBER 1954

NORRIS

Completed March 1954

JOSEPH S. CLARK, JR. - Mayor

FOSTER A. DUNLAP - City Controller

Assisted By
THE HOUSING AND HOME FINANCE AGENCY

Built By
THE PHILADELPHIA HOUSING AUTHORITY

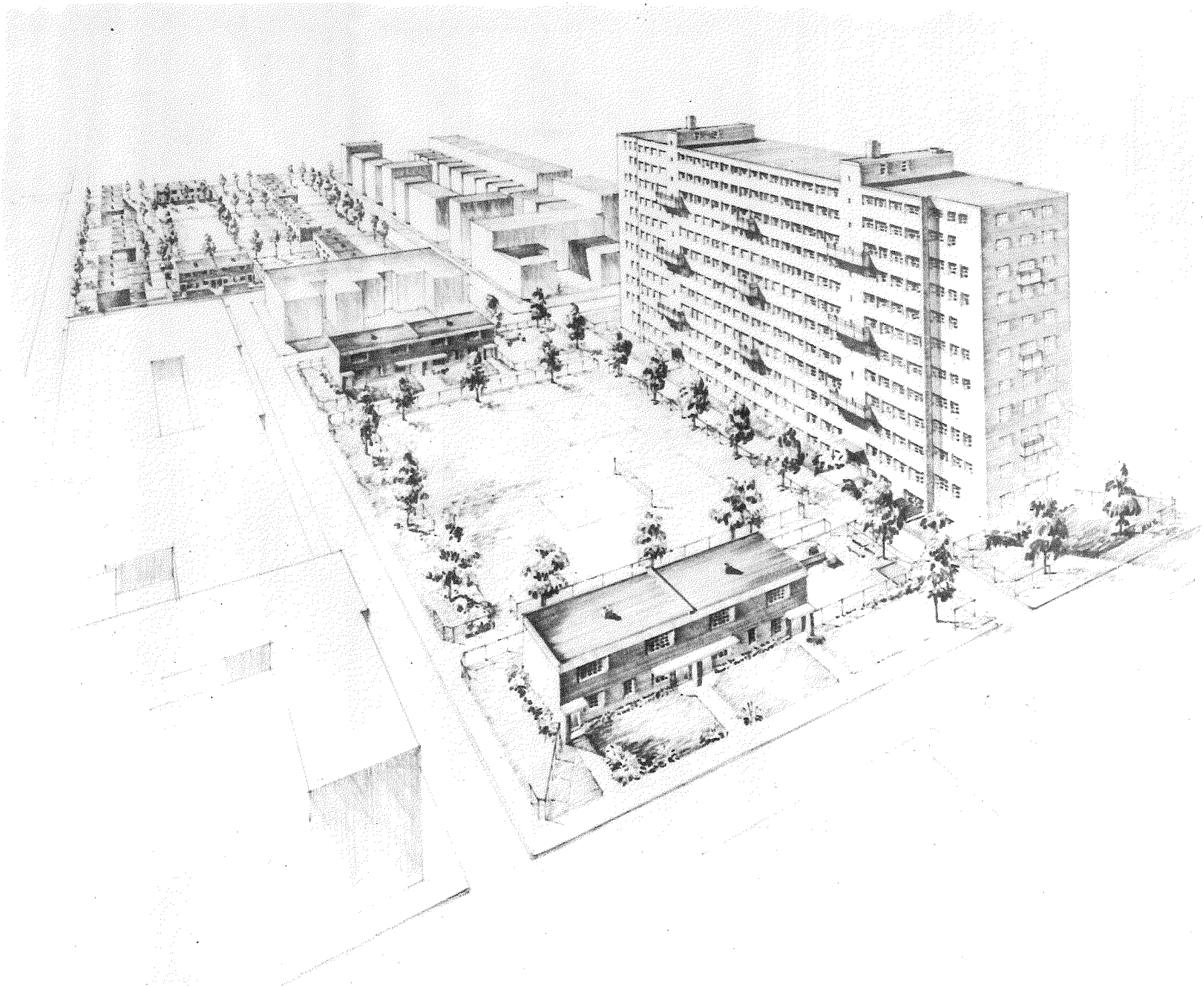
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DRAYTON S. BRYANT Director, Community Relations		DOUGLAS G. BRAIK Chief, Design		GEORGE E. PETERSON General Counsel
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		MILTON B. RUNDLE Chief, Construction		

ANTRIM & ETTER
Architects
GIBSON & KLINE
Structural Engineers
THOMAS E. BRUDER
Civil Engineer
A. ERNEST D'AMELY
Mechanical Engineer
HORACE FLEISHER
Landscape Architect

McCLOSKEY & CO.
General Contractor
WOLFSON & SCHNOLL, INC.
Plumbing
PROGRESSIVE ELECTRIC CONSTRUCTION CO.
Electrical
P. GUINAN & SON
Landscape
AMERICAN SANITARY SALES & SERVICE CO.
Heating

C O N T E N T S

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The Philadelphia Housing Authority
7/5/54

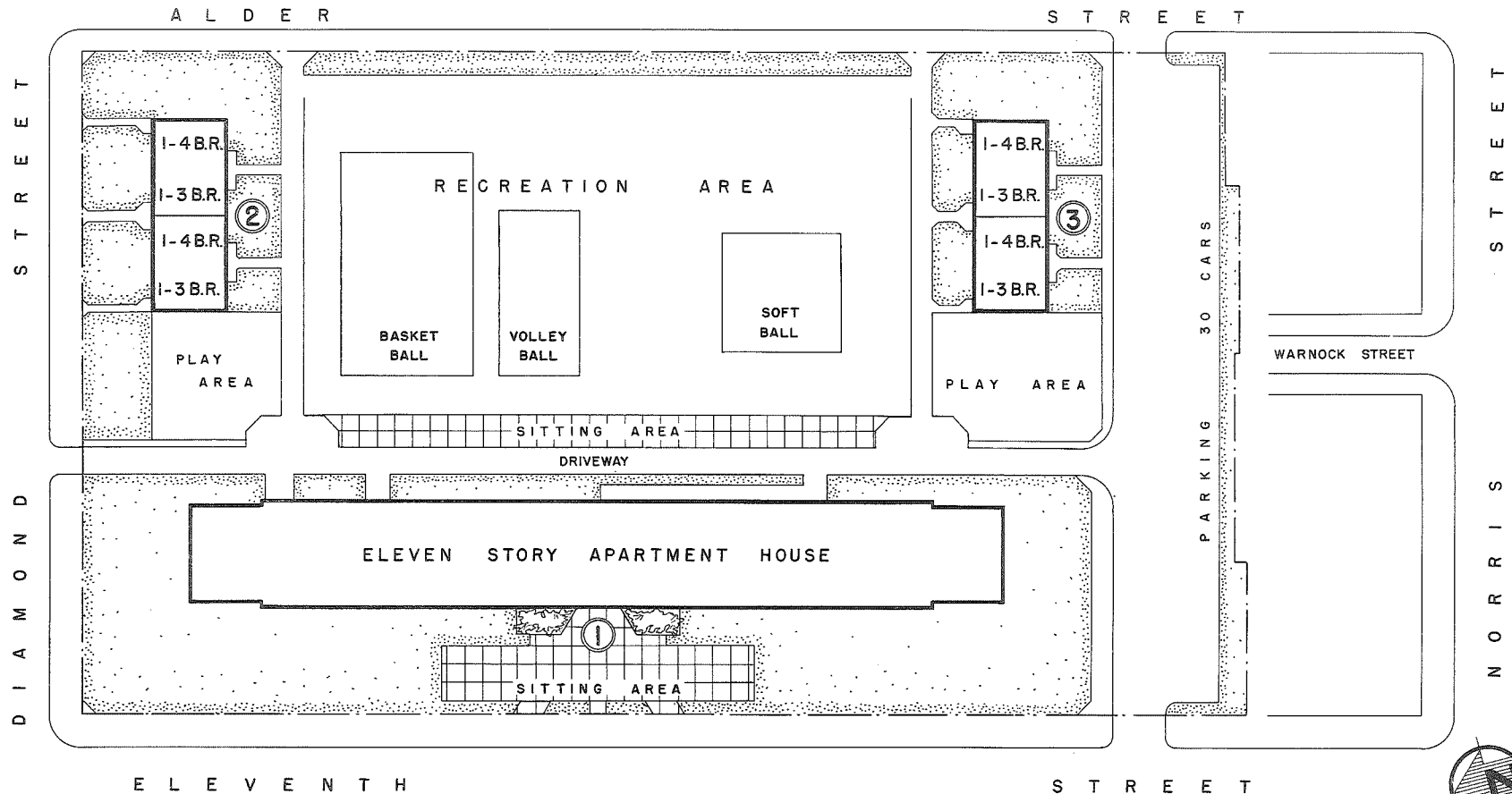
FEDERAL LOW RENT PROJECT DATA

	RAYMOND ROSEN PA-2-10	WILSON PARK PA-2-13	NORRIS PA-2-14	MILL CREEK PA-2-17	ARCH PA-2-18	EAST POPLAR PA-2-20	SCHUYLKILL FALLS PA-2-21	LIDDONFIELD PA-2-23	QUEEN LANE PA-2-24
1. YEAR COMPLETED	1954	1954	1954	1955	1952	1955	1954	1954	1954
2. TOTAL DWELLINGS	1122	746	225	218	77	203	714	412	120
In Elevator Buildings	814	286	157	178	-	-	448	-	120
In 2 & 3 Story Buildings	308	460	68	40	77	203	266	412	-
3. AVERAGE ROOMS PER UNIT	4.95	4.84	5.002	4.98	4.91	4.99	5.007	5.03	4.87
4. NO. OF CONSTRUCTION ROOMS For definition see page 1-C	5553	3617	1125.5	1086	378.5	1014.5	3575	2076	585
5. ESTIMATED POPULATION	4730	3040	968	928.5	320.5	872.5	3090	1800.5	487.5
6. NO. OF RESIDENTIAL BUILDINGS	66	41	11	13	9	22	34	52	1
7. NO. OF STORIES	2, 13	2, 3, 12	2, 11	2, 3, 16	2, 3	2, 3	2, 3, 15	2	16
8. TOTAL ACREAGE*	27.5	23.7	4.95	4.11	2.14	6.92	23.3	32.1***	.96
9. DENSITY: Persons per Owned Acre	172	127.7	195.5	225.9	149.3	126.4	132.4	56	504.6
Dwellings per Owned Acre	40.8	31.4	45.4	53	36	29.4	30.6	12.8	124.2
10. ALL BUILDING COVERAGE - Acres	5.3	5.14	1.05	.73	.63	1.76	4.32	4.88	.18
11. COVERAGE (line 10 divided by line 8)	19%	22%	21%	18%	29%	25%	18%	15%	19%
12. LAND COST	\$1,426,781	\$235,209	\$361,076	\$373,948	\$98,423.39	\$187,260	\$393,094	\$158,700	\$72,835
Per Sq. Ft. of Property Purchased	\$1.04	\$.19	\$1.6	\$2.08	\$1.05	\$.63	\$.33	\$.101	\$1.73
Per Sq. Ft. of Completed Project	\$1.19	\$.23	\$1.67	\$2.09	\$1.05	\$.62	\$.39	\$.113	\$1.73
13. DWELLING CONSTRUCTION COST****	\$10,340,436	\$6,720,182	\$2,230,056	\$2,291,943	\$580,221.77	\$2,145,473	\$6,950,866	\$4,208,084	\$1,288,367
Per Construction Room	\$1,862	\$1,858	\$1,981	\$2,110	\$1,533	\$2,115	\$1,944	\$2,027	\$2,202
14. SITE IMPROVEMENT COST	\$1,021,119	\$1,239,826	\$247,063	\$224,121	\$87,274.38	\$233,369	\$1,285,362	\$685,659	\$69,762
Per Construction Room	\$183.8	\$342.7	\$21.9	\$206.4	\$230.5	\$230	\$359.5	\$330.2	\$119.2
15. TOTAL DEVELOPMENT COST**	\$13,904,106	\$9,094,138	\$3,121,145	\$3,224,795	\$881,282	\$2,885,815	\$9,544,006	\$5,559,351	\$1,616,848
Per Construction Room	\$2503.8	\$2514.2	\$2773.1	\$2969.4	\$2328.3	\$2844.5	\$2669.6	\$2677.9	\$2763.8
16. MAXIMUM INCOME LIMIT FOR ADMISSION	\$3,400	\$3,400	\$3,400	\$3,400	\$3,400	\$3,400	\$3,400	\$3,400	\$3,400
17. MINIMUM MONTHLY GROSS RENT	\$21.00	\$21.00	\$21.00	\$21.00	\$21.00	\$21.00	\$21.00	\$21.00	\$21.00
Per Apartment	\$4.24	\$4.33	\$4.19	\$4.21	\$4.27	\$4.20	\$4.19	\$4.17	\$4.31
18. LOCATION	22nd & Diamond Streets	25th St. & Snyder Ave.	10th & Norris Streets	46th St. & Fairmount Ave.	56th & Arch Streets	7th & Green Streets	Ridge Ave. & School House Lane	Megargee St. & Torresdale Ave.	Queen Lane St. & Pulaski Ave.

* Area Owned After Street Dedications - Used for Computing Density
** Total Cost Including Land
*** Four Acres Declared Unbuildable
**** Includes gas Range and Electric Refrigerator

TOTAL DWELLINGS AND CONSTRUCTION ROOMS

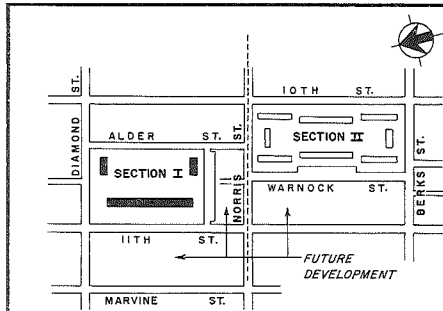
	NUMBER OF BEDROOMS IN DWELLING					
	1-BR	2-BR	3-BR	4-BR	5-BR	TOTAL
NO. OF ELEVATOR APARTMENTS	13	108	34	-	2	157
NO. OF ROW HOUSES	-	-	50	18	-	68
TOTAL DWELLINGS	13	108	84	18	2	225
% OF TOTAL DWELLINGS	5.8	48	37.3	8	.9	100
TOTAL CONSTRUCTION ROOMS	-	-	-	-	-	1125.5
AVERAGE ROOMS PER DWELLING	3.5	4.5	5.5	6.5	7.5	5.0



BUILDINGS 2 & 3 ARE 2-STORY ROW HOUSES

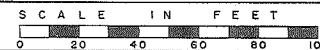
NOTES

- BITUMINOUS PAVEMENT ON ALL RECREATION, PLAY AND SITTING AREAS.
- FOR SITE PLAN DETAIL SEE PAGE A-5.
- TOTAL PARKING SPACES - 54
- % OF TOTAL FAMILIES - 24%

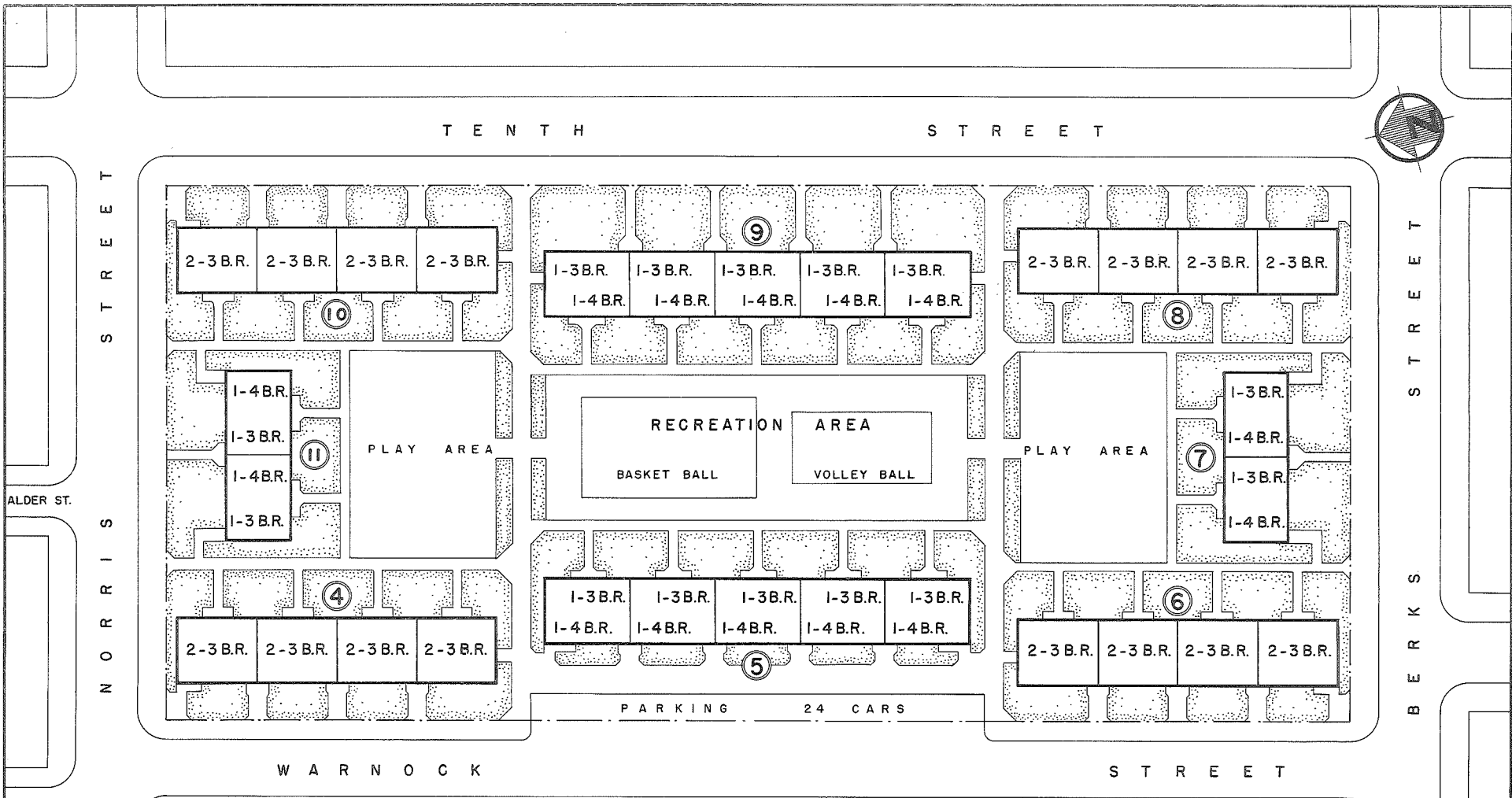


THE PHILADELPHIA HOUSING AUTHORITY
 PLANNING SECTION DRAWING NO. 175-2
NORRIS APARTMENTS - PA-2-14
 ANTRIM & ETTER, ARCHITECTS

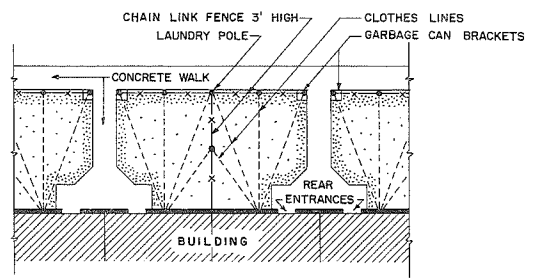
SITE PLAN
 & BUILDING TYPES
 SECTION I



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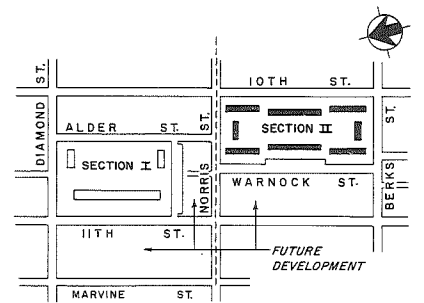


BUILDINGS SHOWN ON THIS SHEET ARE 2 - STORY ROW HOUSES



SITE PLAN DETAIL

0' 10' 20' 30'
 SCALE



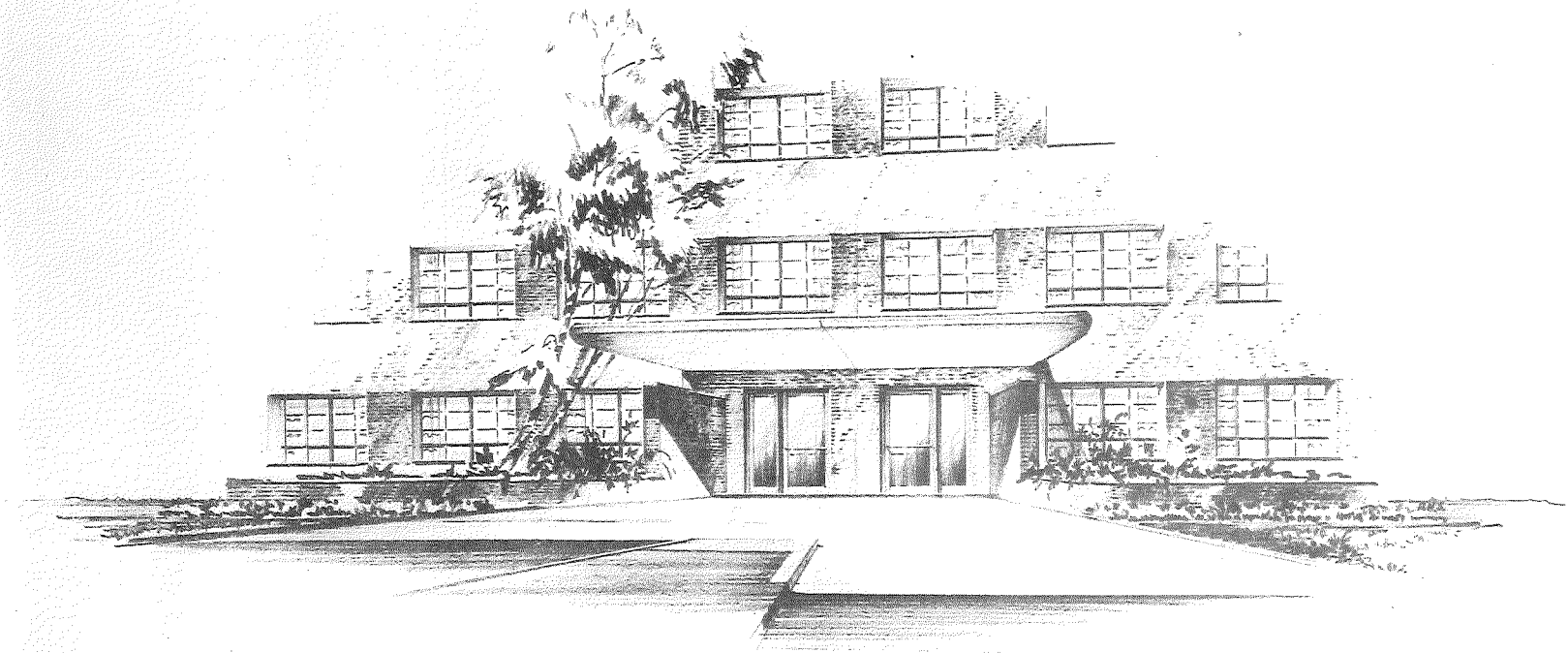
THE PHILADELPHIA HOUSING AUTHORITY
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 NORRIS APARTMENTS - PA-2-14
 ANTRIM & ETTER, ARCHITECTS

SITE PLAN
 & BUILDING TYPES
 SECTION II

SCALE IN FEET
 0 20 40 60 80 100

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THE PHILADELPHIA HOUSING AUTHORITY - NORRIS APARTMENTS - PA-2-14 - ENTRANCE TO ELEVATOR BUILDING

DWELLING UNIT COMPOSITION BY BUILDINGS

BUILDING NO.	STORIES	1-BR	2-BR	3-BR	4-BR	5-BR	TOTAL UNITS IN BUILDING	NO. OF BLDGS.	TOTAL UNITS	PLAN PAGE NO.
1	11	13	108	34	-	2	157	1	157	B5-10
2-3-7-11	2	-	-	2	2	-	4	4	16	C-6
4-6-8-10	2	-	-	8	-	-	8	4	32	C-6
5-9	2	-	-	5	5	-	10	2	20	C-6
TOTAL	-	-	-	-	-	-	-	11	225	-

COMPARISON OF SPECIFICATIONS - ELEVATOR BUILDINGS

	RAYMOND ROSEN PA-2-10	WILSON PARK PA-2-13	NORRIS PA-2-14	MILL CREEK PA-2-17	SCHUYLKILL FALLS PA-2-21	QUEEN LANE PA-2-24
A. EXTERIOR FOUNDATION WALLS	CONCRETE GRADE BEAMS, PIERS & PEDESTALS	CONTINUOUS CONCRETE WALLS	CONTINUOUS CONCRETE WALLS	CONCRETE PIERS & PEDESTALS	CONCRETE PIERS & PEDESTALS	CONCRETE PIERS & PEDESTALS
B. FOOTINGS	CONCRETE SPREAD FOOTINGS	CONCRETE SPREAD FOOTINGS	CONCRETE PILES, CAPS & PEDESTALS	CONCRETE SPREAD FOOTINGS	CONCRETE SPREAD FOOTINGS	CONCRETE SPREAD FOOTINGS
C. CONSTRUCTION SYSTEM	REINFORCED CONCRETE WITH BRICK FACING	REINFORCED CONCRETE WITH BRICK FACING	REINFORCED CONCRETE WITH BRICK FACING	EXPOSED REINFORCED CONCRETE COLUMNS & SPANDREL BEAMS WITH BRICK PANELS	EXPOSED REINFORCED CONC. COLUMNS & SPANDREL BEAMS WITH BRICK PANELS - SOLID CONC. END WALLS	EXPOSED REINFORCED CONCRETE COLUMNS & SPANDREL BEAMS WITH BRICK PANELS
D. EXTERIOR WALL CONSTRUCTION	BRICK & BLOCK, WOOD FURRING, ALUMINUM BACKER GYPSUM LATH, PLASTER	BRICK & BLOCK, WOOD FURRING, ALUMINUM BACKER GYPSUM LATH, PLASTER	BRICK & BLOCK, CHANNEL STUDS, ALUMINUM BACKER GYPSUM LATH, PLASTER	BRICK & BLOCK, CHANNEL STUDS, ALUMINUM BACKER GYPSUM LATH, PLASTER	BRICK & BLOCK, WOOD FURRING, ALUMINUM BACKER GYPSUM LATH, PLASTER	BRICK, AIR SPACE, BLOCK, WOOD FURRING, ALUMINUM BACKER GYPSUM LATH, PLASTER
E. FIRST FLOOR CONSTRUCTION	CONCRETE SLAB	CONCRETE SLAB	CONCRETE SLAB	CONCRETE SLAB	CONCRETE SLAB	CONCRETE SLAB
F. UPPER FLOOR CONSTRUCTION	SLAB & BEAM	FLAT SLAB	FLAT SLAB	FLAT SLAB	FLAT SLAB	FLAT SLAB
G. ROOF TYPE	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT
H. ROOF CONSTRUCTION	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE
I. ROOF COVERING	BUILT-UP	BUILT-UP	BUILT-UP	BUILT-UP	BUILT-UP	BUILT-UP
J. WINDOW TYPE	CASEMENT & HOPPER	CASEMENT & HOPPER	CASEMENT & HOPPER	DOUBLE HUNG & CASEMENT	DOUBLE HUNG & CASEMENT	CASEMENT & HOPPER
K. WINDOW MATERIAL	GALVANIZED STEEL	GALVANIZED STEEL	GALVANIZED STEEL	ALUMINUM & STEEL	ALUMINUM	STEEL
L. INTERIOR PARTITIONS	2" SOLID PLASTER, METAL STUD	2" SOLID PLASTER, METAL STUD, PLASTERED GYPSUM TILE	2" SOLID PLASTER, METAL STUD	2" SOLID PLASTER	2" SOLID PLASTER, METAL STUD	2" SOLID PLASTER
M. FLOOR FINISH	ASPHALT TILE	ASPHALT TILE	ASPHALT TILE	ASPHALT TILE	ASPHALT TILE	ASPHALT TILE
N. CEILING FINISH	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE
O. INTERIOR WATER LINES	COPPER	COPPER	COPPER	COPPER	COPPER	COPPER

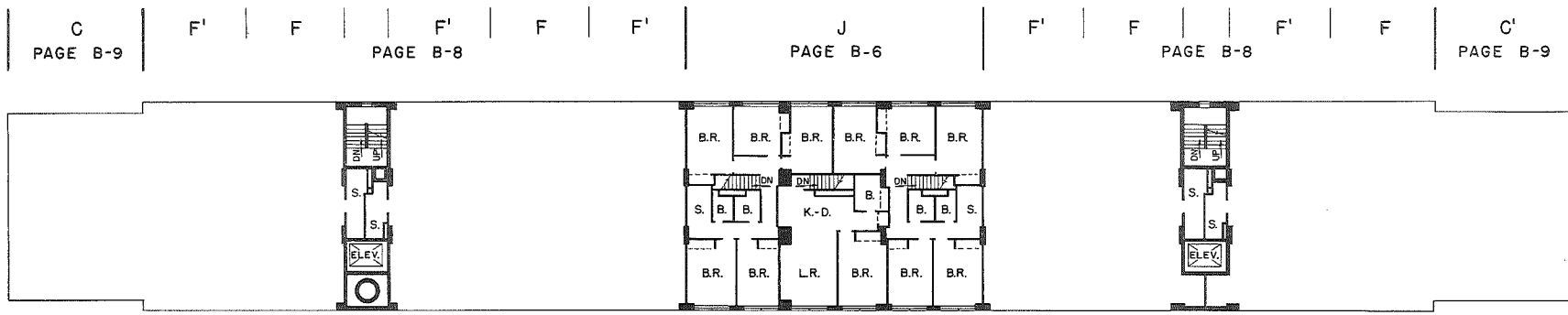
ELEVATOR BUILDINGS

COMPARATIVE ANALYSIS OF TYPICAL FLOORS

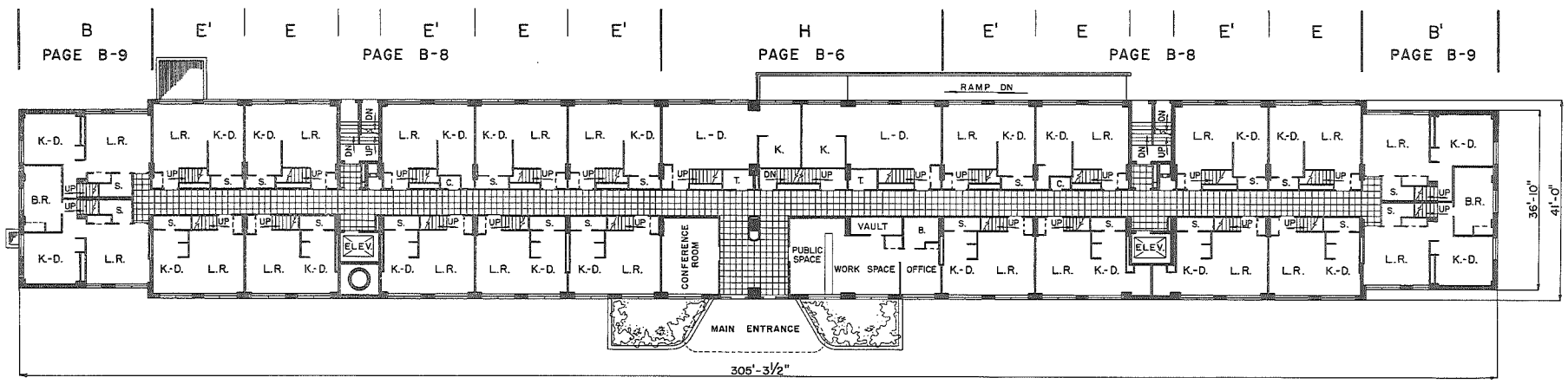
BASED ON AS BUILT DRAWINGS
10/6/53

A. PROJECT	PA-2-10				PA-2-13	PA-2-14*	PA-2-17		PA-2-21	PA-2-24	
	2-1BR 4-2BR 2-3BR	8-2BR	2-1BR 2-2BR 4-3BR	6-2BR 2-3BR	2-1BR 2-2BR 2-3BR	1.33-1BR 10-2BR 3.33-3BR	2-2BR 2-3BR	1-1BR 2-2BR 1-3BR	2-1BR 12-2BR 2-3BR	1-1BR 3-2BR 4-3BR	5-2BR 3-3BR
B. APARTMENT COMPOSITION											
C. IDENTIFICATION	A-B-A-B	A-A'-A-A'	A-B-C-B	A-A'-C-A'	BLDGS. A & B	BLDG. 1	BLDGS. A-1&A-2	BLDG. B	BLDGS. A & B	FLOORS 2-9	FLOORS 10-16
D. BUILDING STORY HEIGHT	13	13	13	13	12	11	16	16	15	16	16
E. NO. OF APARTMENTS	8	8	8	8	6	14.7	4	4	16	8	8
F. NO. OF ROOMS	36	36	38	38	27	68	20	18	72	39	39
1. RATIO OF NET TO GROSS FLOOR AREA	.62	.65	.63	.66	.62	.63	.64	.61	.61	.60	.60
2. GROSS FLOOR AREA PER ROOM - SQ. FT.	164	164	162	163	172	169	167	170	178	179	179
3. NET FLOOR AREA PER ROOM - SQ. FT.	103	108	103	108	108	107	108	105	107	109	109
4. STORAGE AREA PER ROOM - SQ. FT.	13	10	12	11	8	11	9	10	12	10	10
5. PERIMETER PER ROOM - LIN. FT.	11	11	11	11	12	10	12	13	9	12	12
6. CORRIDOR AREA PER ROOM - SQ. FT.	10	10	9	9	10	10	5	5	19	14	14
7. ROOMS PER APARTMENT	4.5	4.5	4.75	4.75	4.5	4.6	5	4.5	4.5	4.87	4.87
8. ROOMS PER ELEVATOR	18	18	19	19	13.5	34	10	9	10.3	19.5	19.5
9. ROOMS PER PUBLIC STAIR	18	18	19	19	13.5	34	10	9	36	19.5	19.5
10. % GROSS FLOOR AREA OF MAX. ALLOWABLE	94	95	92	92	100	96	96	98	100	103	103
11. % TOTAL PERIMETER OF MAX. ALLOWABLE	69	69	68	68	81	65	76	81	61	78	78
12. % NET FLOOR AREA OF MAX. ALLOWABLE	92	97	90	95	96	95	94	94	96	95	95
13. % NET FLOOR AREA OF MIN. ALLOWABLE	100	104	99	103	105	104	102	102	104	104	104
<u>DERIVATIVE ITEMS</u>											
1. **GROSS FLOOR AREA - SQ. FT.	5940	5940	6202	6202	4632	11,500	3343	3056	12,803	6996	6996
2. TOTAL PERIMETER - LIN. FT.	389	389	402	402	339	689	237	227	689	473	473
3. ***NET FLOOR AREA - SQ. FT.	3722	3882	3918	4098	2914	7308	2154	1889	7696	4241	4241
4. ****STORAGE AREA IN UNITS - SQ. FT.	464	360	468	414	219	748	184	186	896	397	397
5. PUBLIC CORRIDOR AREA - SQ. FT.	349	349	349	349	270	666	97	97	1337	530.4	530.4
6. ELEVATORS	2	2	2	2	2	2	2	2	7	2	2
7. PUBLIC STAIRS	2	2	2	2	2	2	2	2	2	2	2
8. BALCONIES	-	-	-	-	-	-	ONE PER APT.	ONE PER APT.	CORRIDOR	ONE PER APT.	ONE PER APT.
9. FOR MAXIMUM & MINIMUM ALLOWABLE SIZES SEE TABLE ON ALLOWABLE FLOOR AREAS AND SIZES FOR LOW RENT HOUSING.											

* In this building one public corridor serves three floors each with a different plan. The figures used in this table are the averages for these three floors.
 ** total area to inside face of exterior walls
 *** total habitable floor area of required apartment rooms but not including bathroom
 **** total area of all apartment closets and storage rooms



SECOND FLOOR
 FOR INCOMPLETE PORTION SEE FIFTH FLOOR PLAN



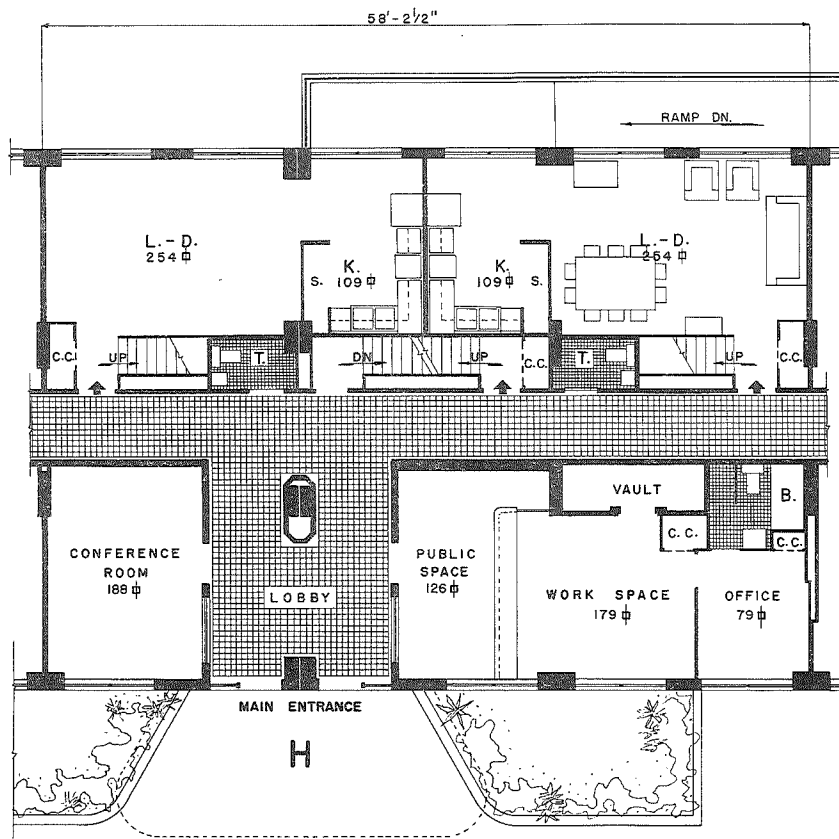
FIRST FLOOR

THE PHILADELPHIA HOUSING AUTHORITY
 PLANNING SECTION DRAWING NO. 175-4
 NORRIS APARTMENTS - PA-2-14
 ANTRIM & ETTER, ARCHITECTS

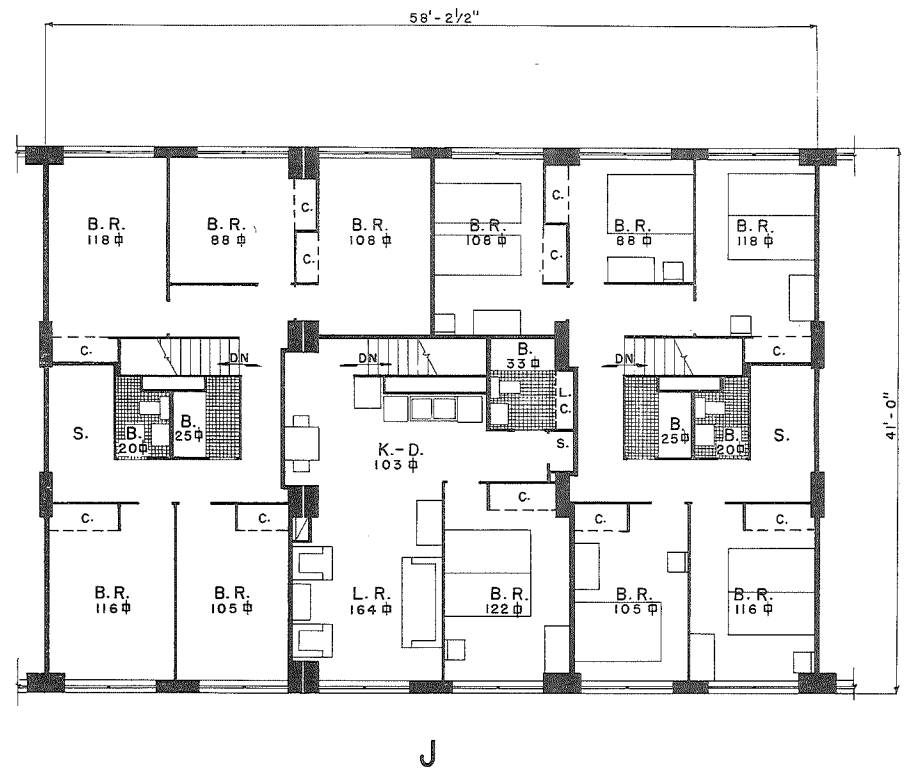
MULTI - STORY BUILDING
 1ST & 2ND FLOOR PLANS

SCALE IN FEET
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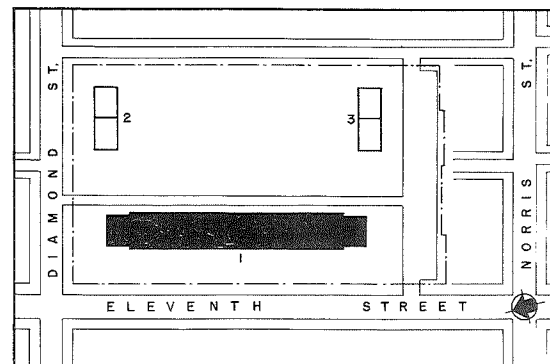
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FIRST FLOOR PLAN

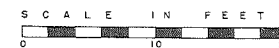


SECOND FLOOR PLAN

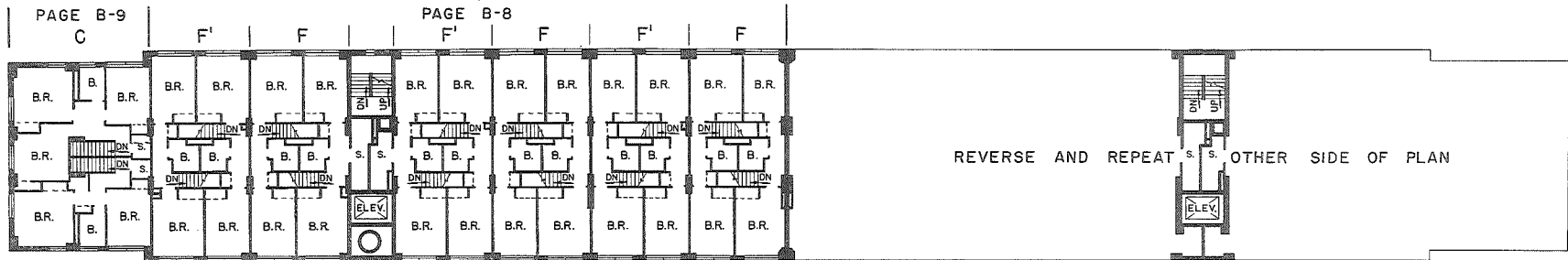


THE PHILADELPHIA HOUSING AUTHORITY
 PLANNING SECTION DRAWING NO. 175-5
 NORRIS APARTMENTS - PA-2-14
 ANTRIM & ETTER, ARCHITECTS

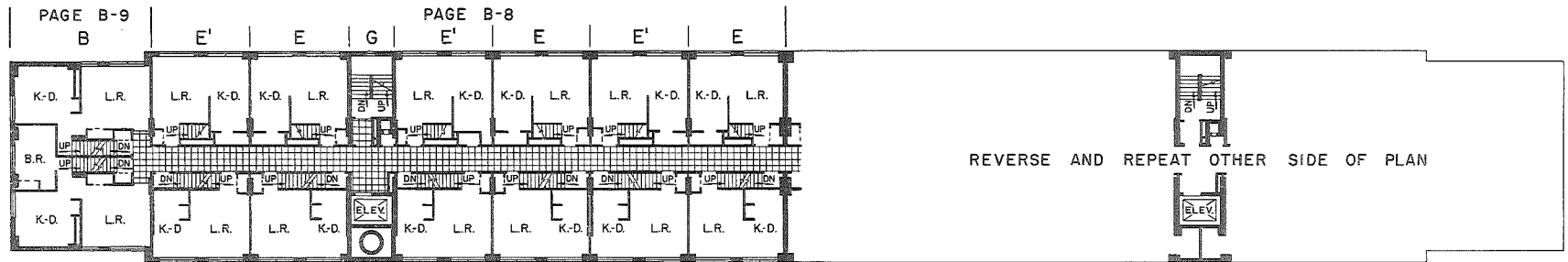
MULTI-STORY BUILDING
 PLANS OF CENTER SECTION
 1ST & 2ND FLOORS



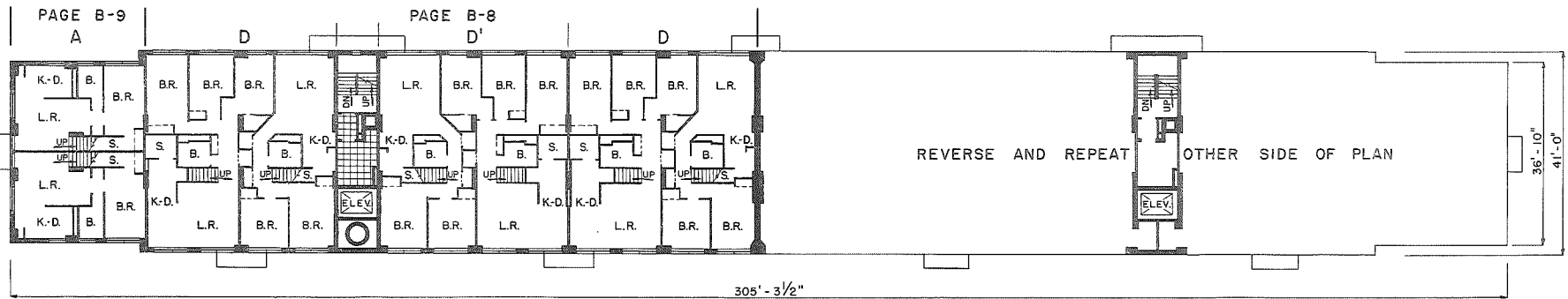
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FIFTH FLOOR
 8TH & 11TH FLOORS SIMILAR



FOURTH FLOOR
 7TH & 10TH FLOORS SIMILAR



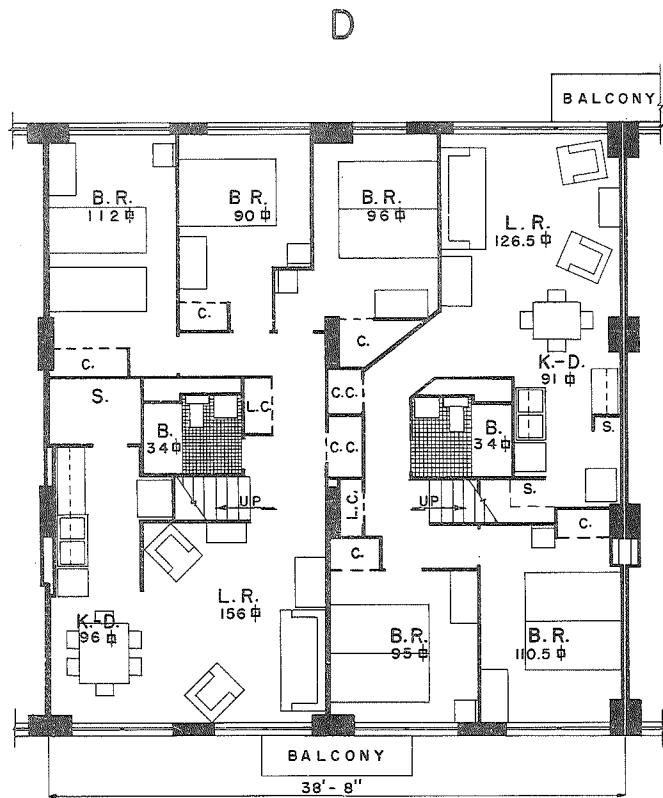
THIRD FLOOR
 6TH & 9TH FLOORS SIMILAR

THE PHILADELPHIA HOUSING AUTHORITY
 PLANNING SECTION DRAWING NO. 175-6
 NORRIS APARTMENTS - PA-2-14
 ANTRIM & ETTER, ARCHITECTS

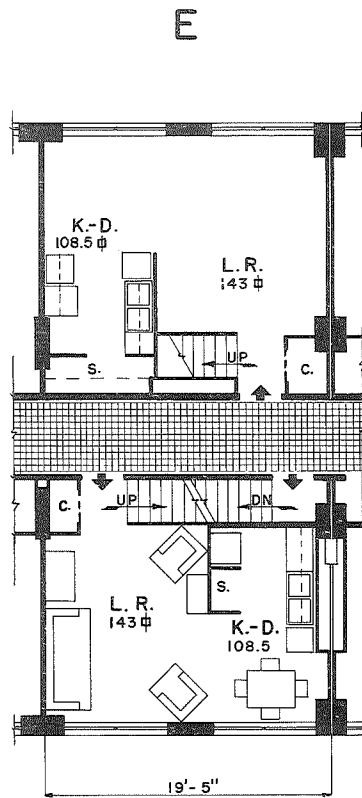
MULTI-STORY BUILDING
 TYPICAL FLOOR PLANS

SCALE IN FEET
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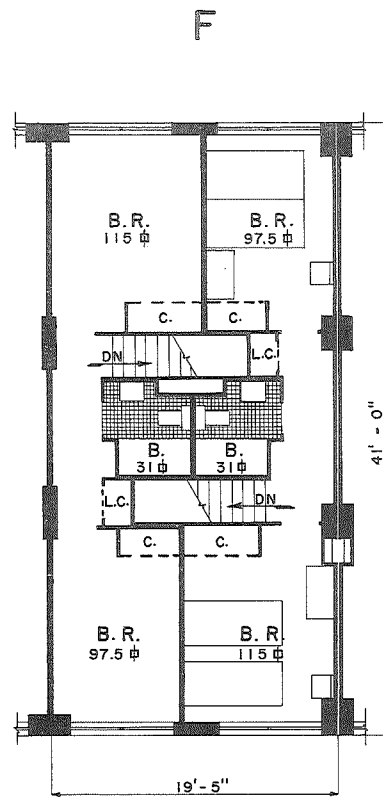
NOV. 3, 1953
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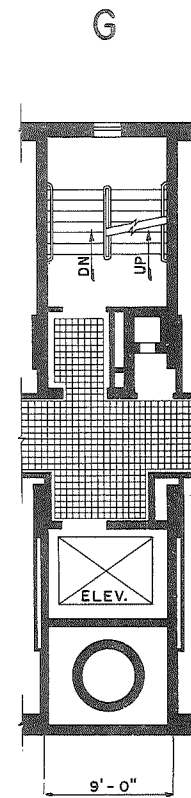
3RD-6TH-9TH FLOORS



1ST-4TH-7TH-10TH FLOORS



2ND-5TH-8TH-11TH FLOORS



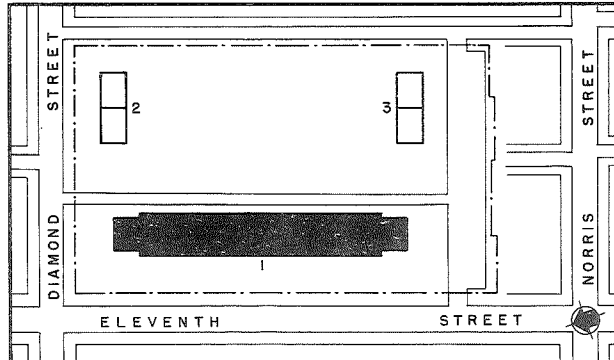
STAIRS
 4TH-7TH-10TH
 FLOORS

FOR VARIATIONS
 SEE FLOOR PLANS

PLAN AS DRAWN

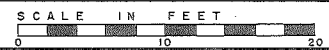
- PLAN AS DRAWN REVERSED

SEE PAGE B-6 FOR THIS PORTION AT 1ST & 2ND FLOOR

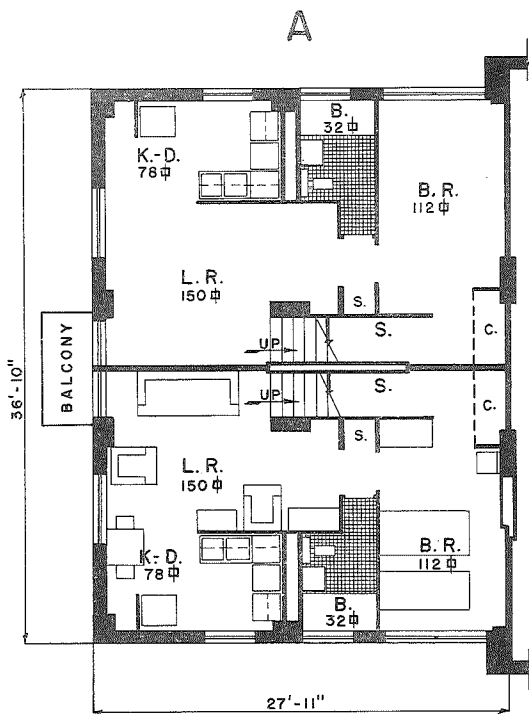


THE PHILADELPHIA HOUSING AUTHORITY
 PLANNING SECTION DRAWING NO. 175-7
 NORRIS APARTMENTS - PA-2-14
 ANTRIM & ETTER, ARCHITECTS

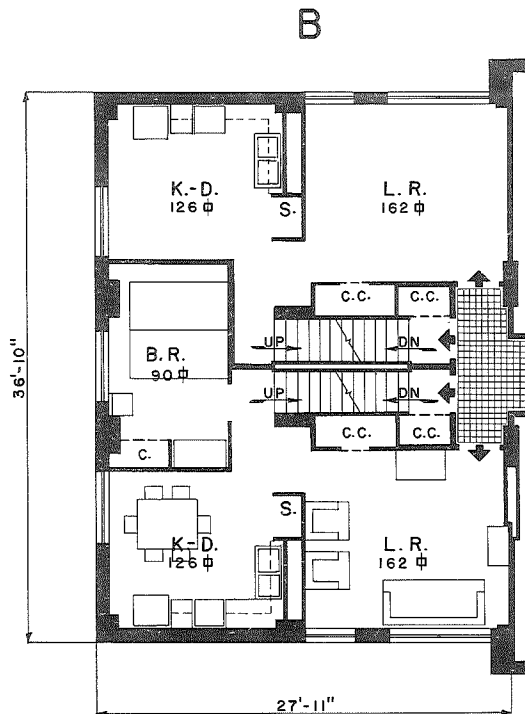
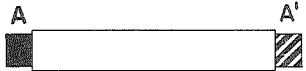
MULTI-STORY BUILDING
 TYPICAL UNIT PLANS



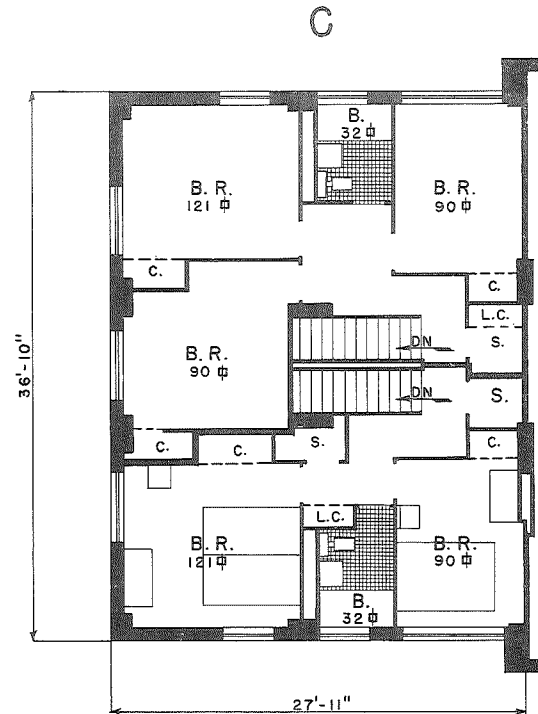
NOV. 3, 1953
 DR. BY G.C.



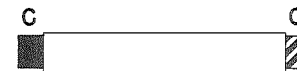
3RD-6TH-9TH FLOORS



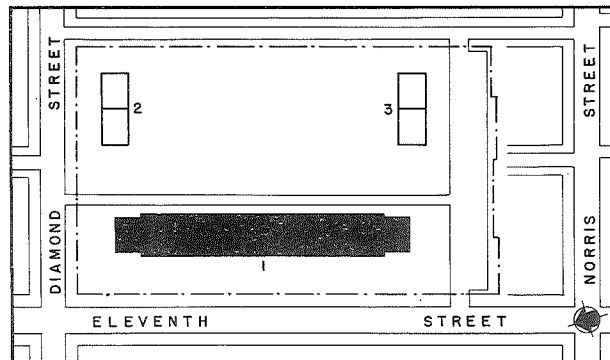
1ST-4TH-7TH-10TH FLOORS



2ND-5TH-8TH-11TH FLOORS

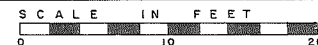


PLAN AS DRAWN - PLAN AS DRAWN REVERSED

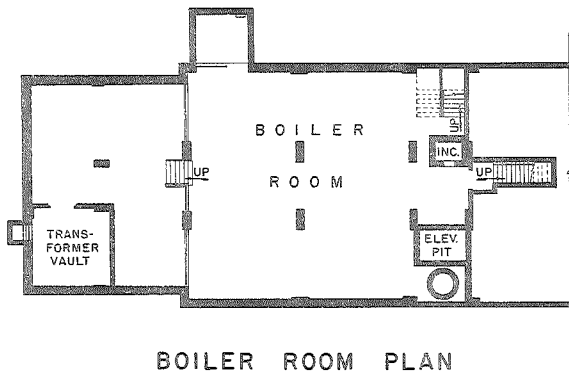


THE PHILADELPHIA HOUSING AUTHORITY
 PLANNING SECTION DRAWING NO. 175-8
 NORRIS APARTMENTS - PA-2-14
 ANTRIM & ETTER, ARCHITECTS

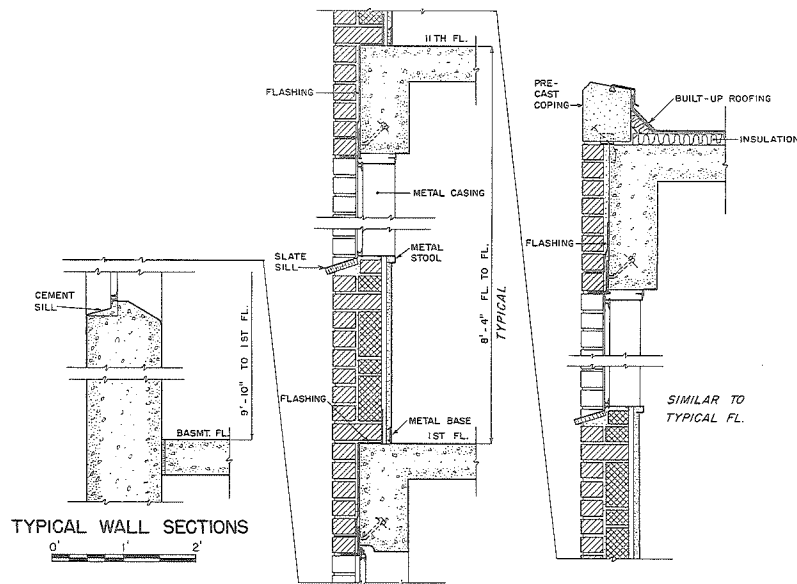
MULTI-STORY BUILDING
 TYPICAL END UNIT PLANS



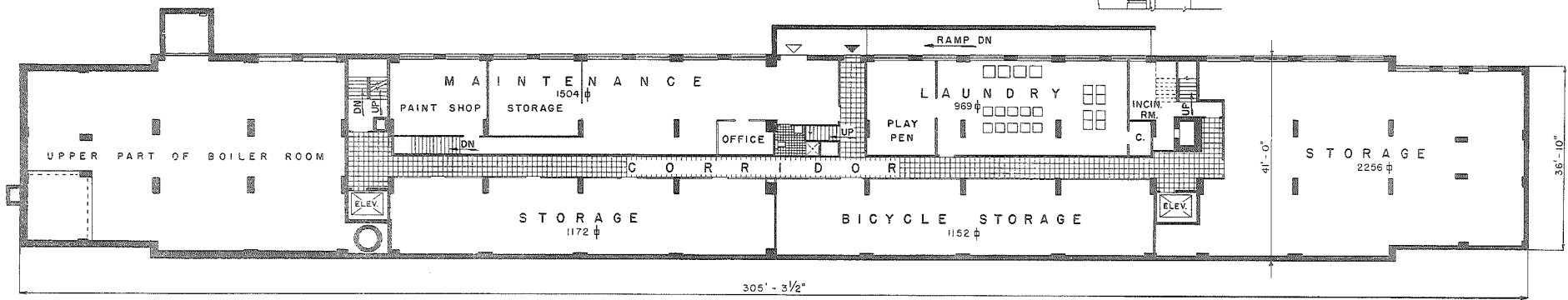
NOV. 3, 1953
 DR. BY G.C.



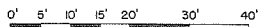
BOILER ROOM PLAN



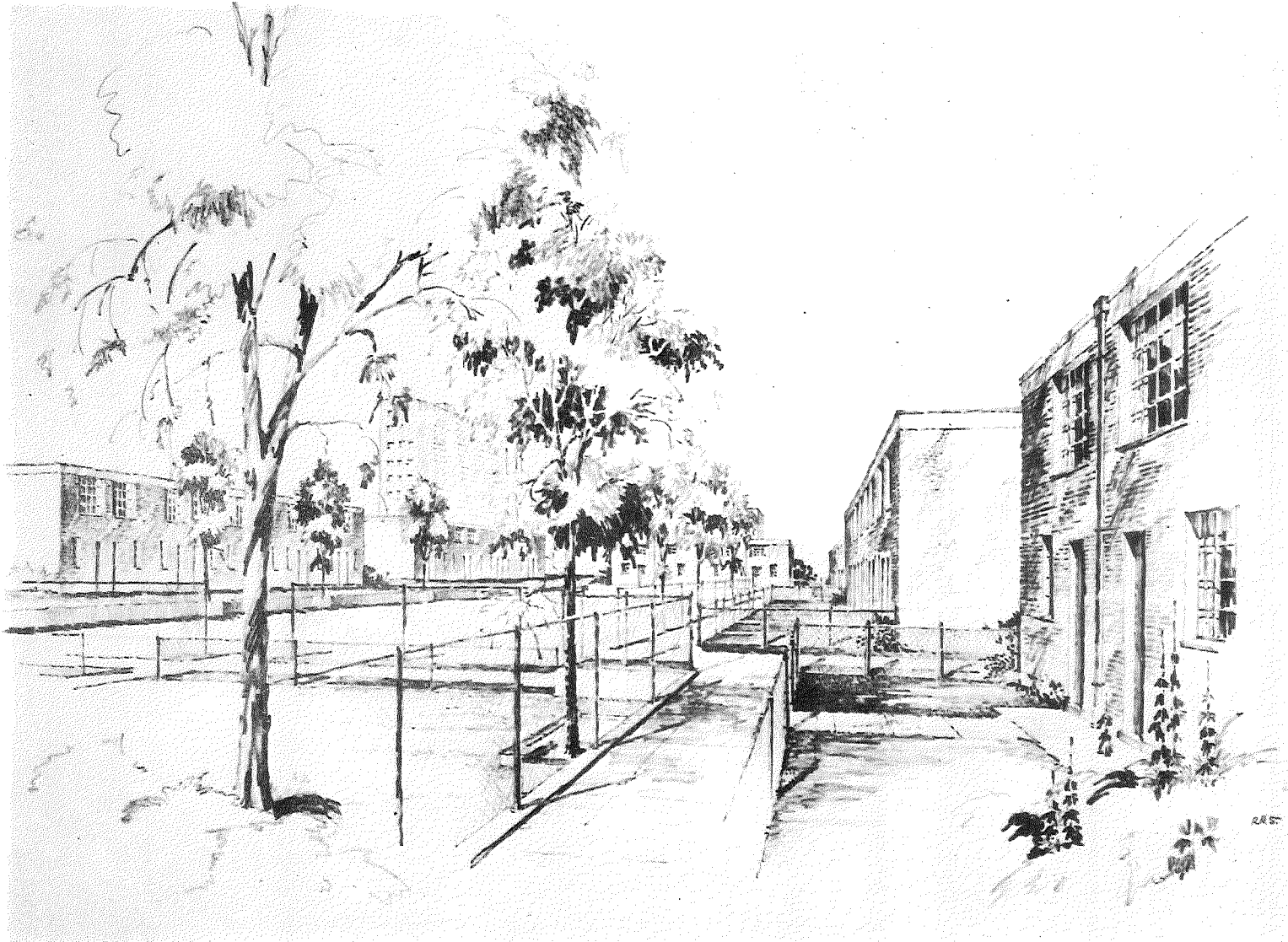
TYPICAL WALL SECTIONS



BASEMENT PLAN



THE PHILADELPHIA HOUSING AUTHORITY PLANNING SECTION DRAWING NO. 175-9 NORRIS APARTMENTS - PA-2-14 ANTRIM & ETTER, ARCHITECTS	
MULTI-STORY BUILDING BASEMENT PLAN AND TYPICAL WALL SECTIONS	
SCALE AS SHOWN	AUGUST 15, 1954 DRAWN BY G.C.



COMPARISON OF SPECIFICATIONS - 2 & 3 STORY BUILDINGS

	RAYMOND ROSEN PA-2-10	WILSON PARK PA-2-13	NORRIS PA-2-14	MILL CREEK PA-2-17	ARCH PA-2-18	EAST POPLAR PA-2-20	SCHUYLKILL FALLS PA-2-21	LIDDONFIELD PA-2-23
A. FOOTINGS	CONCRETE SPREAD	CONCRETE PILE CAPS	CONTINUOUS CONCRETE	CONTINUOUS CONCRETE	CONTINUOUS CONCRETE	CONCRETE SPREAD	CONCRETE SPREAD	CONTINUOUS CONCRETE
B. EXTERIOR FOUNDATION WALLS	CONCRETE GRADE BEAMS & PIERS	CONCRETE GRADE BEAMS	CONCRETE	CONCRETE	CONCRETE BLOCK	CONCRETE GRADE BEAMS & PIERS; CONCRETE BLOCK	CONCRETE GRADE BEAMS & PIERS	CONCRETE BLOCK & GRADE BEAMS
C. CONSTRUCTION SYSTEM	WALL BEARING	WALL BEARING	WALL BEARING	WALL BEARING	WALL BEARING	WALL BEARING	WALL BEARING	WALL BEARING; PRECAST CONCRETE COLUMNS WITH BRICK SPANDRELS
D. EXTERIOR WALL CONSTRUCTION	BRICK & BLOCK, WOOD FURRING, GYP. LATH, PLASTER	SAME AS PA-2-10	SAME AS PA-2-10	SAME AS PA-2-10	SAME AS PA-2-10	SAME AS PA-2-10	SAME AS PA-2-10	SAME AS PA-2-10
E. FIRST FLOOR CONSTRUCTION	CONCRETE SLAB ON CONCRETE JOISTS	CONCRETE SUPPORTED SLAB	CONCRETE SLAB ON FILL	WOOD JOISTS OVER CRAWL SPACE	CONCRETE SLAB ON FILL	CONC. SLAB & CONC. JOISTS OVER BASE- MENT OR CRAWL SPACE; CONC. SLAB ON BOTH BEARING & NON-BEARING FILL	CONCRETE SLAB ON FILL	CONC. SUPPORTED SLAB; CONCRETE SLAB ON BOTH BEARING & NON- BEARING FILL
F. UPPER FLOOR CONSTRUCTION	WOOD JOISTS	WOOD JOISTS	WOOD JOISTS	WOOD JOISTS	WOOD JOISTS	WOOD JOISTS	WOOD JOISTS	PRECAST CONCRETE CHANNEL SLAB
G. ROOF TYPE	PITCHED	FLAT & PITCHED	FLAT	FLAT	FLAT & PITCHED	FLAT & PITCHED	FLAT	FLAT
H. ROOF CONSTRUCTION	TRUSSED RAFTERS	WOOD	WOOD	PRECAST CONCRETE CHANNEL SLABS	WOOD	WOOD & TRUSSED RAFTERS	WOOD	PRECAST CONCRETE CHANNEL SLABS
I. ROOF COVERING	ASPHALT SHINGLES	BUILT-UP & SLATE	BUILT-UP	BUILT-UP	BUILT-UP & ASPHALT SHINGLES	COMPOSITION STRIP SHINGLES & BUILT- UP	BUILT-UP	BUILT-UP
J. WINDOW TYPE	DOUBLE HUNG	CASEMENT	CASEMENT & HOPPER	DOUBLE HUNG	DOUBLE HUNG	DOUBLE HUNG	CASEMENT	CASEMENT
K. WINDOW MATERIAL	ALUMINUM	ALUMINUM	STEEL	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	STEEL
L. INTERIOR PARTITIONS	WOOD STUD, METAL STUD, 2" SOLID PLASTER	WOOD STUD, METAL STUD, 2" SOLID PLASTER	2" SOLID PLASTER	2" SOLID PLASTER, CINDER BLOCK	WOOD STUD, 2" SOLID PLASTER	WOOD STUD, CINDER BLOCK	METAL STUD, 2" SOLID PLASTER	WOOD STUD, CINDER BLOCK
M. FLOOR FINISH	ASPHALT TILE & WOOD	ASPHALT TILE & WOOD	ASPHALT TILE & WOOD	ASPHALT TILE	INTEGRAL CONCRETE, WOOD	ASPHALT TILE & WOOD	ASPHALT TILE	ASPHALT TILE & CONCRETE
N. CEILING FINISH	PLASTER	PLASTER	PLASTER	PRECAST CONCRETE & PLASTER	PLASTER	PLASTER	PLASTER	PRECAST CONCRETE
O. INTERIOR WATER LINES	COPPER	COPPER	COPPER	COPPER	COPPER	COPPER	COPPER	COPPER

DWELLING UNIT COMPOSITION BY BUILDINGS

BUILDING NO.	STORIES	1-BR	2-BR	3-BR	4-BR	5-BR	TOTAL UNITS IN BUILDING	NO. OF BLDGS.	TOTAL UNITS	PLAN PAGE NO.
1	11	13	108	34	-	2	157	1	157	B5-10
2-3-7-11	2	-	-	2	2	-	4	4	16	C-6
4-6-8-10	2	-	-	8	-	-	8	4	32	C-6
5-9	2	-	-	5	5	-	10	2	20	C-6
TOTAL	-	-	-	-	-	-	-	11	225	-

THE AMERICAN INSTITUTE OF ARCHITECTS ARCHIVES
1735 New York Ave. NW, Washington, DC 20006

3 - BEDROOM ROW HOUSES

COMPARATIVE ANALYSIS OF TYPICAL PLANS

BASED ON AS BUILT DRAWINGS
10/5/53

A. PROJECT	3 - BEDROOM UNITS															
	PA-2-10	P A-2-13			PA-2-14			PA-2-17	PA-2-18			PA-2-20		PA-2-21		PA-2-23
B. DWELLING ANALYZED C. INTERLOCKS WITH	1-3BR	1-3BR	1-3BR 1-4BR	1-3BR	1-3BRa 1-3BRb	1-3BRb 1-3BRa	1-3BR 1-4BR	1-3BR	1-3BR 1-4BR	1-3BRa 1-3BRb	1-3BRb 1-3BRa	1-3BR 1-4BR	1-3BR 1-2BR	1-3BR 1-5BR	1-3BR 1-3BR	1-3BR
D. IDENTIFICATION		END UNIT			ALL BRs 2ND FL.	ONE BR 1ST FL.				ALL BRs 2ND FL.	ONE BR 1ST FL.				SAME SIZES	
E. NO. OF ROOMS	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
F. STORY HEIGHT OF BUILDING	2	2	3	2	2	2	2	2	2	2	2	2	3	2	2	2
1. RATIO OF NET TO GROSS FLOOR AREA	.69	.67	.62	.66	.71	.70	.75	.76	.76	.69	.71	.69	.70	.78	.77	.60
2. GROSS FLOOR AREA PER ROOM - SQ. FT.	172.5	173	189	162	160	157	146	174	163.5	162	155	170	160	185	167	176
3. NET FLOOR AREA PER ROOM - SQ. FT.	118	116	117	107	119	110.5	109	132	124	111	110	118	113	144	128	138
4. STORAGE AREA PER ROOM - SQ. FT.	11	13	20	12	14	10	8.5	16	18	14	13	18	14.5	13	12	21
5. % GROSS FLOOR AREA OF MAX. ALLOWABLE	97	99	100.5	93	90	88	82	101	92	91.5	87	93	90	107	93.5	103
6. % NET FLOOR AREA OF MAX. ALLOWABLE	101	98	99	90.5	95	93	91	111	96	94	92	99	94	122	109	116
7. % NET FLOOR AREA OF MIN. ALLOWABLE	112	110	136	100	106	105	102	123	107.5	105.5	105	111	107	136	122	130
<u>DERIVATIVE ITEMS</u>																
1. * GROSS FLOOR AREA - SQ. FT.	950	950	1040	891	880	866	802	958	899	892	852	937	879	1017	917	967
2. ** NET FLOOR AREA - SQ. FT.	658	638	644	588	626	608	602	724	681	612	607	646	619	791.5	706	757.5
3. *** STORAGE AREA IN UNIT - SQ. FT.	62	73	110	65	76	54	47	88	101	76	71	98	80	72	68	118
4. MAXIMUM AND MINIMUM ALLOWABLE SIZES ARE SHOWN IN TABLE ON MANDATORY PLANNING REQUIREMENTS.																

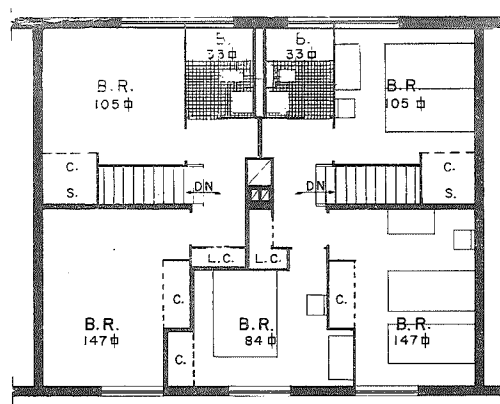
* total area to inside face of exterior walls
 ** total floor area of living room, dining room, kitchen, and bedrooms
 *** total area of all apartment closets and storage rooms

4 AND 5 BEDROOM ROW HOUSES
COMPARATIVE ANALYSIS OF TYPICAL PLANS

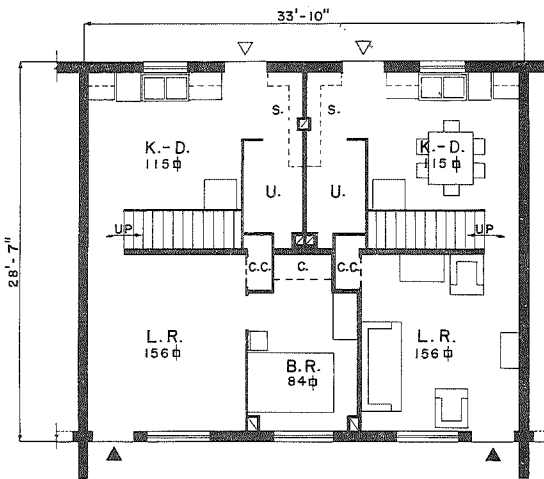
BASED ON AS BUILT DRAWINGS
10/5/53

A. PROJECT	4 - BEDROOM UNITS								5 - BEDROOM UNITS				
	PA-2-10	PA-2-13	PA-2-14	PA-2-17	PA-2-18	PA-2-20	PA-2-21		PA-2-23	PA-2-10	PA-2-13	PA-2-21	PA-2-23
B. DWELLING ANALYZED	1-4ER	1-4ER	1-4ER	1-4ER	1-4ER	1-4ER	1-4ERa	1-4ERb	1-4ER	1-5ER	1-5ER	1-5ER	1-5ER
C. INTERLOCKS WITH		1-3ER	1-3ER	3-4ER	1-3ER	1-3ER	1-4ERb	1-4ERa			1-5ER	1-3ER	
D. NO. OF ROOMS	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	7.5	7.5	7.5	7.5
E. STORY HEIGHT OF BUILDING	2	3	2	3	2	3	2	3	2	2	3	3	2
1. RATIO OF NET TO GROSS FLOOR AREA	.68	.63	.70	.74	.75	.63	.81	.74	.75	.70	.62	.74	.69
2. GROSS FLOOR AREA PER ROOM - SQ. FT.	182	222	152	169	151	189	172	174	165	168	189	170	174
3. NET FLOOR AREA PER ROOM - SQ. FT.	124	119	106	124	113	119	129	139	123	118	117	125	122
4. STORAGE AREA PER ROOM - SQ. FT.	13	23	8	13	12	16	13	17	17	12	19	17	17
5. % GROSS FLOOR AREA OF MAX. ALLOWABLE	100.5	98.8	84	95.8	84.4	99.3	97.7	93.9	93.5	93.7	100.8	92.7	98.5
6. % NET FLOOR AREA OF MAX. ALLOWABLE	102	82.5	87	102	93	99	115	106	102	96	95	102	99.5
7. % NET FLOOR AREA OF MIN. ALLOWABLE	113	110	98.5	112.5	105	111	129	119.5	115	108	108	116	113
<u>DERIVATIVE ITEMS</u>													
1. * GROSS FLOOR AREA - SQ. FT.	1182	1220	988	1098	984	1227	1119	1133	1070	1264	1421	1279	1320
2. ** NET FLOOR AREA - SQ. FT.	809	774	690	808	735	776	906	837	802	886	875	942	915
3. *** STORAGE AREA IN UNIT - SQ. FT.	87	152	55	87	79	106	86	113	113	91	140	125	129
4. MAXIMUM AND MINIMUM ALLOWABLE SIZES ARE SHOWN IN TABLE ON MANDATORY PLANNING REQUIREMENTS.													

* total area to inside face of exterior walls
 ** total habitable floor area of living room, dining room, kitchen, and bedrooms
 *** total area of all apartment closets and storage rooms

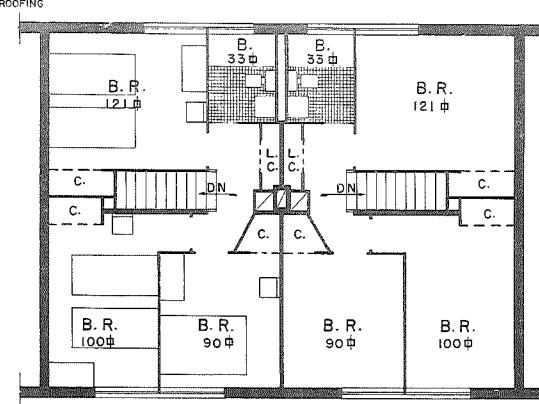
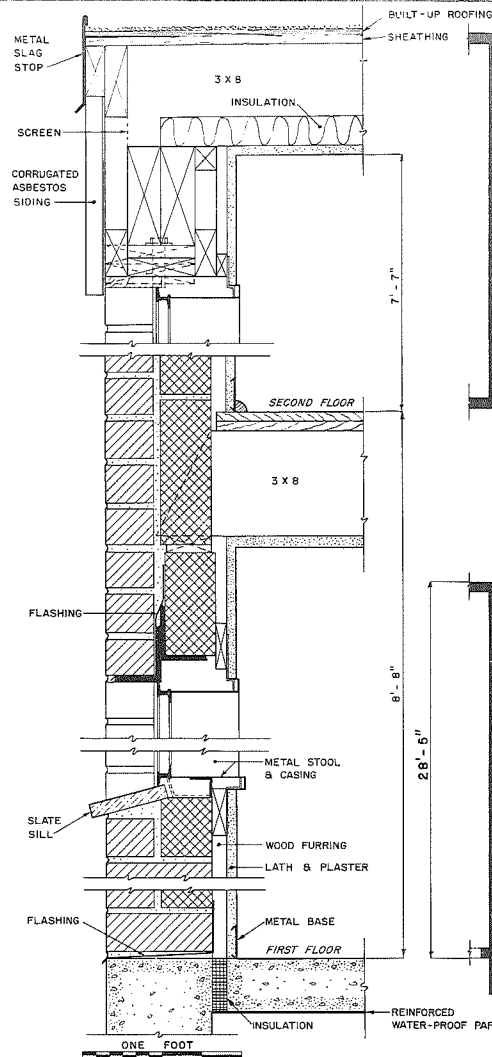


SECOND FLOOR PLAN

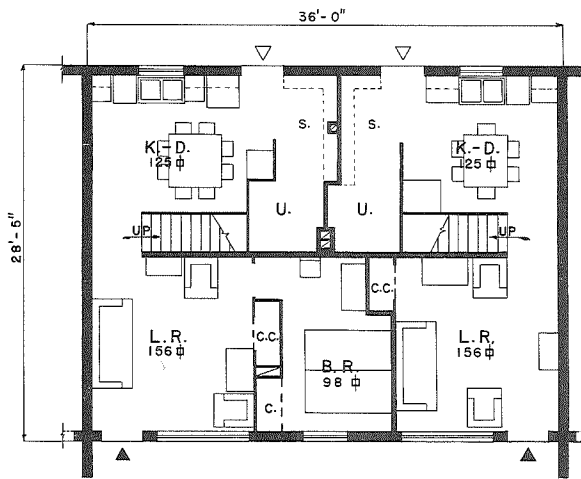


FIRST FLOOR PLAN

1-3 B.R. 1-3 B.R.
 2-3 BED RM. INTERLOCKING ROW HOUSES

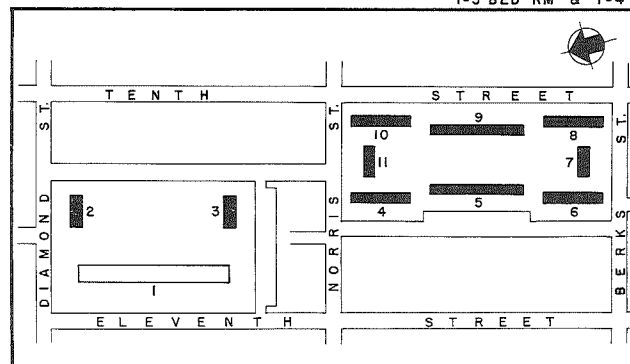


SECOND FLOOR PLAN



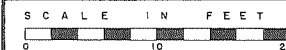
FIRST FLOOR PLAN

1-4 B.R. 1-3 B.R.
 1-3 BED RM & 1-4 BED RM. INTERLOCKING ROW HOUSES



THE PHILADELPHIA HOUSING AUTHORITY
 PLANNING SECTION DRAWING NO. 175-10
 NORRIS APARTMENTS - PA-2-14
 ANTRIM & ETTER, ARCHITECTS

ROW HOUSES
 TYPICAL FLOOR PLANS
 &
 WALL SECTION



AUGUST 10, 1954
 DRAWN BY G.C.

COMMUNITY, MANAGEMENT, & MAINTENANCE FLOOR AREAS

	RAYMOND ROSEN	WILSON PARK	NORRIS	MILL CREEK	ARCH	EAST POPLAR	SCHUYLKILL FALLS	LIDDONFIELD	QUEEN LANE
	PA-2-10	PA-2-13	PA-2-14	PA-2-17	PA-2-18	PA-2-20	PA-2-21	PA-2-23	PA-2-24
1. NO. OF DWELLINGS IN PROJECT	1122	746	225	218	77	203	714	412	120
2. SQ. FT. PER PRO- JECT DWELLING									
A. MANAGEMENT	1.2	2.7	3	2.3	1.5	2.9	2.1	2.5	.9
B. MAINTENANCE	2.9	3.2	6.6	5.3	1.9	7.4	5.9	7	9.4
C. COMMUNITY	7.1	12.3	-	2.6	-	10	9	9.7	13
D. TOTAL	11.2	18.2	-	10.2	-	20.3	17.1	19.1	23.3
3. TOTAL SQ. FT.									
A. MANAGEMENT	1386	2044	682	497	119	596	1506	1020	110
B. MAINTENANCE	3326	2375	1504	1149	144	1502	4199	2872	1135
C. COMMUNITY	7982	9172	none	571	none	2025	6470	3986	1548
D. TOTAL	12,694	13,591	-	2217	-	4123	12,175	7878	2793
4. RECOMMENDED AREAS UNDER 207.1 OF HOUSING MANUAL									
A. MANAGEMENT	-	1723	831	815	269	782	1687	1210	555
B. MAINTENANCE	-	2994	1531	1494	616	1416	3206	2331	920
C. COMMUNITY	11,220	7460	2250	2180	770	2030	7140	4120	1200
D. TOTAL	-	12,177	4612	4489	1655	4228	12,033	7661	2675

MANDATORY REQUIREMENTS FOR AREAS AND SIZES
 From P.H.A. Low Rent Housing Manual 207.1 Dated 5-25-51

	1-BR		2-BR		3-BR		4-BR		5-BR	
	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1. *GROSS FLOOR AREA - SQ. FT.										
a. one-story row	525		700		910		1100		1290**	
b. two-story row			750		965		1160		1335**	
c. three-story row**					1020		1220		1395**	
d. two-story flat	575		750		960		1150			
e. three-story apartment	535		685		875		1070		1270**	
f. elevator building	580		770		960		1150			
2. NET FLOOR AREA - SQ. FT.										
a. living room		145		155		160		160		160
b. living-dining		170		185		205		215		220
c. kitchen		50		60		75		90		100
d. kitchen-dining		70		90		110		130		150
e. 1st bedroom		120		120		120		120		120
f. 2nd bedroom				100		100		100		100
g. 3rd bedroom						90		90		90
h. 4th bedroom								90		90
i. 5th bedroom										90
TOTAL (living-dining)		340		465		590		715		820
(kitchen-dining)		340		465		580		700		810
3. PERIMETER - ELEVATOR BUILDINGS - LIN. FT.	55		70		85		100		115	
4. ***GENERAL STORAGE AREA - SQ. FT.	25	25	30	40	30	50	30	60	30	70
a. required adjacent to kitchen										
(1) kit. with laundry facilities	3.1	3.1	5	3.7	6.2	3.7	7.5	3.7	8.7	3.7
(2) kit. without laundry facilities	5	5	8	6	10	6	12	6	14	6
5. CLOSET SIZES										
a. coat	2'-6"x22"		3'-0"x22"		4'-0"x22"		5'-0"x22"		5'-0"x22"	
b. linen	4 sq. ft. 18" deep		5 sq. ft. 18" deep		6 sq. ft. 18" deep		7 sq. ft. 18" deep		7 sq. ft. 18" deep	
c. bedroom										
(1) first bedroom	5'-0"x22"		5'-0"x22"		5'-0"x22"		5'-0"x22"		5'-0"x22"	
(2) other bedrooms	-		4'-0"x22"		4'-0"x22"		4'-0"x22"		4'-0"x22"	

* If central heat is used deduct 15 sq. ft. from the areas required for row houses and flats. If a heater room is required these areas may be increased by 15 sq. ft. when the fuel is gas or 30 sq. ft. when coal or oil are used.

** not in manual

*** A portion of the required general storage may be located in central storage for apartments of flats.

A B B R E V I A T I O N S

B. = BATH

BASMT. FL. = BASEMENT FLOOR

B.R. = BEDROOM

C. = CLOSET

C.C. = COAT CLOSET

DN. = DOWN

ELEV. = ELEVATOR

INC. = INCINERATOR

K-D = KITCHEN-DINING

L.C. = LINEN CLOSET

L-D = LIVING-DINING

L.R. = LIVING ROOM

RM. = ROOM

S. = STORAGE

T. = TOILET

U. = UTILITY