

**CITY OF NAPOLEON
BUILDING CONSTRUCTION PERMIT
(1, 2 or 3 Family Dwelling)**

18034

Owner Name Norman H. Minnick
 Address 673 Euclid Ave.
 Builder Name Self
 Address Same Tel. 592-1561

Lot Information:

Street No. 855 Wabash Street
 Lot 14 Subdivision Stalters Add'n.
 Lot Dimensions (21' x 31.1) Lot Area 8,827 Sq. Ft.
 Yard Set Back: Front See 85-23 Rear Min. 15'
One Side 5', Total Side Not Less Than 12.5'

Zoning "A" Intended use of Building: NEW SINGLE FAMILY DWELLING

Building Information:

Single Double _____ Multiple _____ New Construction Addition _____ Remodel _____
 Size: Length 19'-4" Width 32' No. of Stories 1
 Floor Area: 1st Floor 1488 sq. ft. 2nd Floor _____ 3rd Floor _____ Basement _____
 Unfinished Attic _____ Garage (Single-Car) 2808 sq. ft.
 Foundation: Piers _____ Full Basement _____ Part Basement _____
 Concrete _____ Block (8" & 12")
 Walls: Frame Block _____ Brick Front Other Wood Siding, 1-1/2" x 4"
 Electrical: Wiring 200AMP Electric Heating _____ Electrical Appliances (7)
 Plumbing: Fixtures or Traps (8) Warm Air Heating (9) Hot Water Heating _____

Additional Information: This permit requires compliance with the attached letter 0.423-75L and the attached addendum marked exhibit "A" and made a part here-of.

Date Nov 11 1975 Applicant Signature Norman H. Minnick

Note: 11/20/75 informed Minnick Backwater Valve Owner - Builder - Agent
 Not required in this case because of vertical 10' drop into storm line. PLUP Subsoil
 tile installed around bldg.
6/15/76 PROVIDE ADDITIONAL HANGERS FOR HOR. PIPES AND 2" TRAP FOR SHOWER PLUP

Inspection Record:

Work Started 11/7/75 Foundations 11/11/75 Plumbing, Heating 5/20/77 ROD.
 Set Back, Side Lines OK 11/10/75 checked by PLUP TESTED AND APPROVED Plumbing (Rough In) By PLUP 6/15/76 And Air Conditioning _____
 Excavation _____ Erecting Frame _____ Roof _____

Footing poured 11/10/75 Electrical Work SERVICE AND ROUGH IN APPROVED BY HOWES 4/15/76
FINAL-INSPECTED & APPROVED BY HOWES: SEE ATTACHED RECORD. ROD.
 Comments: 4/12/76 DOORS LOCKED UNABLE TO CONDUCT ROUGH IN ELECTRICAL INSPECTION

NOTE: 4/15/76 INFORMED BY NOTICE TO PROVIDE SMOKE DETECTOR IN HALL PLUP

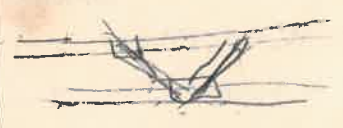
Certificate of Occupancy Issued _____

Permit No.	<u>123-75</u>		
Issued	<u>11/10/75</u>		
By	<u>Norman H. Minnick</u>		
	Building Inspector		
Valuation	<u>\$21,000.00</u>		
	Fees	Base	Plus
	Total		
Construction	<u>\$15.00</u>	<u>--</u>	<u>\$15.00</u>
Plumbing	<u>\$3.00</u>	<u>\$8.00</u>	<u>\$11.00</u>
Electrical	<u>\$3.00</u>	<u>\$6.95</u>	<u>\$9.95</u>
Heating	<u>\$6.00</u>	<u>--</u>	<u>\$6.00</u>
Water Tap 3/4"	<u>\$110.00</u>	<u>--</u>	<u>\$110.00</u>
Sewer Tap	<u>\$60.00</u>	<u>--</u>	<u>\$60.00</u>
Temporary Elec.	<u>\$10.00</u>	<u>--</u>	<u>\$10.00</u>
TOTAL	<u>\$237.00</u>	<u>\$11.95</u>	<u>\$251.95</u>

Pink - Engineer

Inspector

Item No.	Description	Quantity	Unit	Price	Total
1	Excavation	100	cu yd	1.50	150.00
2	Foundation	100	sq ft	2.00	200.00
3	Concrete	100	cu yd	3.00	300.00
4	Reinforcement	100	lb	0.10	10.00
5	Formwork	100	sq ft	0.50	50.00
6	Brickwork	100	sq ft	1.00	100.00
7	Masonry	100	sq ft	1.50	150.00
8	Plaster	100	sq ft	0.25	25.00
9	Paint	100	sq ft	0.10	10.00
10	Roofing	100	sq ft	0.50	50.00
11	Windows	100	sq ft	1.00	100.00
12	Doors	100	sq ft	1.50	150.00
13	Interior	100	sq ft	0.50	50.00
14	Exterior	100	sq ft	0.50	50.00
15	Site Work	100	sq ft	0.50	50.00
16	Utilities	100	sq ft	0.50	50.00
17	Final	100	sq ft	0.50	50.00



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Date 5/12/77

Electrical Inspection

Rough-In

Service

Final

Location: 855 WEST ST.

Building Permit No.: 423-77

Date and Time Inspection to be
Conducted: 5/12/77 PM

Requested by: NORM MINNICK

Approved

Not Approved

The following was noted:

5-12-77 near final

See list on Pnl. Bid, Covers
for changes. N.H.

*CHANGES CORRECTED 5/29/77

RES.

APPLICATION FOR PERMIT TO TAP SEWER

679

Date 11/10, 1975

Name Norman H. Minnick

Address 613 Euclid Avenue

LOCATION OF CONNECTION

Street and Number 855 Welsted Street

Lot No. 14

Addition Stetter's Addition

Date work will start 11-19-75 (All work must be inspected)

Work will be done by Norman H. Minnick

I certify that the sewer will be used only as indicated and no other drainage will be connected.

Applicant

Date

Address

Permit Fee \$ 60.00

Bldg. Permit # 423-75
Pd 11/11/75

R. W. Schweinhagen (J.C.)
Certification by City Clerk

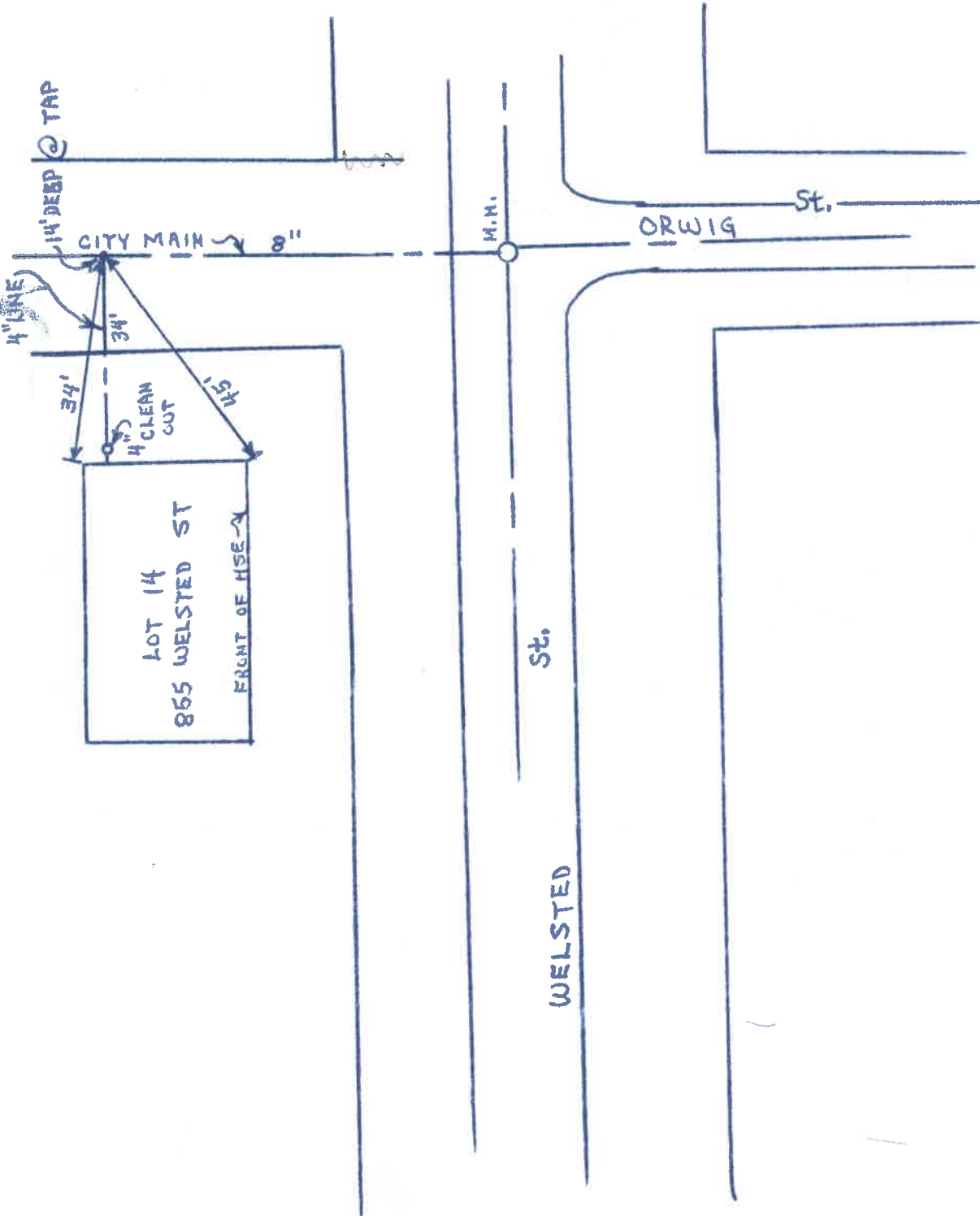
Work inspected BY: Thomas Terranova - Building Inspector

Work Completed 11-19-75

Remarks Tested by means of 5 P.S.I. air test which held for 15 minutes.

Name of contractor: Norman Minnick Size of Tap 4" Date 11-19-75
 Street 855 Welsted St. Size and kind of sewer 4" Vitrified
 Location of Sewer Side of hse.
 Depth of sewer @ tap 14'

Remarks Tested And Approved BY: P. Luk 11-19-75



CITY OF NAPOLEON
 Engineering Department
 255 Riverview Avenue
 NAPOLEON, OHIO 43545

DATE Nov. 10, 1975	JOB NO. Permit No. 423-75
PROJECT New Single Family Dwelling	
LOCATION 855 Welsted St. Lot 14	
CONTRACTOR Minnick	OWNER Minnick
WEATHER	TEMP ° at AM ° at PM
SPECIAL NOTES: CITY OF NAPOLEON ENGINEERING DEPT. PLAN APPROVAL BY <u>PWP</u> DATE: <u>10/11/75</u>	

TO
 Norman Minnick
 613 Euclid Ave.
 Napoleon, Ohio 43545
Addendum To Plan Approval

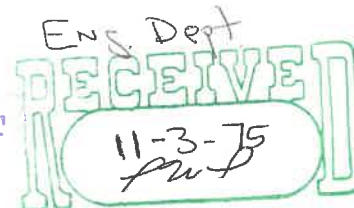
THE FOLLOWING WAS NOTED:

- 1) During plan review and requires compliance with the City's adopted codes:
- 2) Must provide minimum of one (1) approved smoke detector sensing visible or invisible particles of combustion installed in a manner and location approved by the Building Inspector. Sec. 12.16.3.4 *INSTALLED*
- 3) The water distributing system shall be protected in an approved manner against backflow. BB-51.38 *INSTALLED*
- 3) Locate attic door minimum of 4' from fire rated partition between garage & dwelling *OK* or provide fire rating materials to access door on garage side. Sec. 413.1.1
- 4) ~~Because of 20' span in garage and limited attic storage area, provide not less than 2"x8" @ 16" o/c for ceiling joists in garage only, Table No. 7-B~~
- 5) ~~Only in garage area sloping distance of roof rafters is 17' span provide 2"x6" @ 12" o/c or 2"x8" @ 24" o/c, Table No. 7-R~~ *PWP 11/11/75 Providing 3-2"x12" beam @ 16' span point. Disregard item 4 & 5*
- 6) Provide minimum of 56 sq. in. net free area of ventilation for crawl space area. Sec. 507.3
- 7) Insulate hot air ducts in crawl space or attic. Sec. 11-602

COPIES TO Norman & on record with
Bldg. Permit No. 423-75

~~REQUIRED REPORT~~
 SIGNED David W. Bismore
 Letter No. 423-75

CITY OF NAPOLEON
ENGINEERING DEPARTMENT
APPLICATION FOR CONSTRUCTION PERMIT
(PLEASE PRINT OR TYPE)



The undersigned hereby makes application for the construction, installation, replacement or alteration as herein specified, agreeing to do all such work in strict accordance with the City of Napoleon's Building Code for 1, 2 and 3 Family Buildings.

Owner's Name NORMAN H. MINNICK Address 613 EUCLID AVE. NAP.

Builder's Name SAME. Address _____ Tel. _____

LOT INFORMATION: (Not required for roofing or siding job.)

Location of Project CYN - WELSTED + ORWIG . Lot # 14

Subdivision STELTERS ADDT. Lot Area 8825 Sq. Ft.

Yard Set Back: Front 40' Rear 69' Left Side 9'-6"

Right Side 5'-0" Zoning District _____

BUILDING INFORMATION:

Single Double _____ Multiple _____ New Construction

Addition _____ Remodel _____ Attached Garage

Detached Garage _____ Accessory Building _____ Replacement _____

Brief Description of Work: _____

Size: Length 49'-4" Width 28'-0" No. of Stories 1

Floor Area: 1st Floor 1168 Sq. Ft. 2nd Floor _____ Sq. Ft.

3rd Floor _____ Sq. Ft. Basement _____ Sq. Ft.

Unfinished Attic _____ Garage 200
266 FT²

Foundation: Piers _____ Full Basement _____ Part Basement _____

Concrete _____ Thickness Block 8" Size _____

Walls: Frame Block _____ Brick _____ Other _____

Specific Type of Exterior Siding WOOD

APPLICATION FOR PERMIT SHALL BE ACCOMPANIED BY TWO COMPLETE SETS OF PLANS INCLUDING: ELEVATIONS, FLOOR PLANS, CROSS SECTIONS AND PLOT PLAN. IF ADDITIONS OR REMODELING, SHOW ALL EXISTING STRUCTURES AND THEIR SIZE AND LOCATION. ALL PLANS SHALL BE DRAWN TO 1/4"=1'-0" SCALE. PLOT PLAN DRAWN TO 1/8"=1'-0" SCALE.

ESTIMATED COST OF COMPLETED PROJECT: \$20,000-

DATE Nov 1, 1975 APPLICANT'S SIGNATURE Norman H. Minnick
OWNER-BUILDER-AGENT

Address	East	853
"	West	901

CITY OF NAPOLEON
 ENGINEERING DEPARTMENT
 APPLICATION FOR ELECTRICAL PERMIT
 (PLEASE PRINT OR TYPE)

1.75 1st 10
 1.20 next 2
 2.95
 7.00 Appl.
 9.95 Total

The undersigned hereby makes application for the installation, replacement or alteration of electrical equipment as herein specified, agreeing to do all such work in strict accordance with the City of Napoleon's adopted Electrical Code for 1, 2 and 3 Family Buildings.

Owner's Name _____ Address _____

Contractor's Name _____ Address _____ Tel. _____

LOT INFORMATION:

Location of Project _____ Lot # _____

Subdivision _____ Zoning District _____

BUILDING INFORMATION:

Single Family _____ Double Family _____ Multiple Family _____

New Construction _____ Existing _____ Addition _____

Replacement _____ Remodel _____ Service Change _____

Size: Total Square Foot Per Floor _____ No. of Stories _____

DESCRIPTION OF WORK

Size of Service 200 AMP. Service Change Only _____ (Yes or No)

Total Number of New Circuits _____ Total Number of New Circuits Excluding Appliance Circuits 12

APPLIANCE CIRCUITS: (indicate quantity)

Electric Range ~~/~~ Range Hood _____ Clothes Dryer ~~/~~ Dishwasher ~~/~~

Air Conditioner _____ Attic Fan Blower _____ Room Exhaust Fan 3

Disposal _____ Hot Water Heater ~~/~~ Electric Oven _____

Require Temporary Electric YES (Yes or No)

Note: G.F.I.C. required for all temporary electric with approved ground rod at service.

APPLICATION FOR PERMIT SHALL BE ACCOMPANIED BY TWO COMPLETE SETS OF PLANS INCLUDING: ELECTRICAL LAY-OUT AND RISER DIAGRAM.

ESTIMATED COST OF COMPLETED PROJECT: _____

DATE Nov 1, 1975 APPLICANT'S SIGNATURE Norman H. M. Smith
 OWNER-CONTRACTOR-AGENT

CITY OF NAPOLEON
ENGINEERING DEPARTMENT
APPLICATION FOR HEATING PERMIT
(PLEASE PRINT OR TYPE)

The undersigned hereby makes application for the installation, replacement or alteration of a heating system or device as herein specified, agreeing to do all such work in strict accordance with the City of Napoleon's adopted Mechanical Code for 1, 2 and 3 Family Buildings.

Owner's Name NORMAN H. MINNICK Address 613 EUCLID AVE.

Contractor's Name SAME. Address _____ Tel. _____

LOT INFORMATION:

Location of Project CVN - WELSTED + ORWIG Lot # 14

Subdivision STELTERS Zoning District _____

BUILDING INFORMATION:

Single Family Double Family _____ Multiple _____ New Construction

Addition _____ Remodel _____ Replacement _____ No. of Stories 1

DESCRIPTION OF WORK

Heating System - Warm Air Hot Water _____ Steam _____ Electric

Unit Heaters _____ Unit Gas Heaters _____ Other _____

Type - Gravity _____ Forced Radiant _____

No. of Thermostatical Heating Zone 1

Hot Water - One Pipe _____ Two Pipe _____ Series Loop _____

Electric Heat - No. of Circuits 1 Other _____

Total Heat Loss of Area to be Heated 39050 Btu.

Rated Capacity of Furnace/Boiler 42,000 Btu.

No. of Furnances 1 No. of Hot Air Runs 9

No. of Hot Water Radiators _____ Type of Fuel ELECTRIC

Heating Units Located: Crawl Space _____ Floor Level Suspended _____

Roof or Exposed to Outside Air _____ Attic _____ Other _____

APPLICATION FOR PERMIT SHALL BE ACCOMPANIED BY TWO COMPLETE SETS OF PLANS INCLUDING: LOCATION OF FURNACE OR UNIT HEATERS AND SIZE AND LOCATION OF FEEDER DUCTS AND RETURN AIR DUCTS. ALL PLANS SHALL BE DRAWN TO SCALE.

ESTIMATED COST OF COMPLETED PROJECT: _____

DATE Nov 1, 1975 APPLICANT'S SIGNATURE Norman H. Minnick
OWNER-CONTRACTOR-AGENT

CITY OF NAPOLEON
ENGINEERING DEPARTMENT
APPLICATION FOR PLUMBING PERMIT
(PLEASE PRINT OR TYPE)

The undersigned hereby makes application for the installation, replacement or alteration of plumbing system or device as herein specified, agreeing to do all such work in strict accordance with the City of Napoleon's adopted Plumbing Code for 1, 2 and 3 Family Building.

Owner's Name _____ Address _____

Contractor's Name _____ Address _____ Tel. _____

LOT INFORMATION:

Location of Project _____ Lot # _____

Subdivision _____ Zoning District _____

BUILDING INFORMATION:

Single Family _____ Double Family _____ Multiple Family _____ New Construction _____

Addition _____ Remodel _____ Replacement _____ No. of Stories _____

DESCRIPTION OF WORK

Drainage Pipe of: Cast Iron _____ Copper _____ Other ABS - PLASTIC

Size of Main Building Drain: 4" Other _____

Size of Main Vent Stack: 3" 4" _____ Other _____

Require Water Tap: (Yes or No) Require Sewer Tap: (Yes or No)

Size and Type of Water Tap 3/4" COPPER

Size and Type of Sewer Tap 4" CLAY Type of Joints _____

No. of Water Closets----- 2 No. of Sump Pumps-----

No. of Bathtubs----- 1 No. of Lavatories----- 2

No. of Kitchen Sinks----- 1 No. of Automatic Washers----- 1

No. of Disposals----- _____ No. of Hot Water Heaters----- 1

No. of Dishwashers----- 1 No. of Shower Receptors-----

No. of Floor Drains----- _____ Other (specify) _____

Storm Drainage Outlet to: Storm Sewer Other _____

APPLICATION FOR PERMIT SHALL BE ACCOMPANIED BY TWO COMPLETE SETS OF A DRAINAGE ISOMETRIC, WITH ALL PIPES AND TRAPS PROPERLY SIZED. MUST INDICATE TOTAL DRAINAGE FIXTURE UNIT VALUE (dfu).

ESTIMATED COST OF COMPLETED PROJECT: _____

DATE Nov 1, 1975 APPLICANT'S SIGNATURE Norman H. M... ..
OWNER-CONTRACTOR-AGENT



WHOLE-HOUSE HEAT LOSS & GAIN WORKSHEET

— PRELIMINARY QUICK ESTIMATE —

Customer's Name MINNICK Address _____

City _____ State _____ Zip _____ Telephone Number _____

WINTER: Inside Design Temperature 70 —Outside Design Temperature 0 =Heating Temperature Difference 70°

SUMMER: Outside Design Temperature 95 —Inside Design Temperature 75 =Cooling Temperature Difference 20°

LINE NO.	HEATING		COMMON DATA		COOLING	
	BTUH LOSS	HEATING FACTOR	SECTION	SQ. FT.	COOLING FACTOR	BTUH GAIN
1			GROSS WALL	1230		
2	2590		DOORS & WINDOWS (TABLE A OR B)	169		3863
3	743	.7	NET WALL	1061	3	3183
4	700	.6	CEILING	1168	1.5	1751
5	818	.7	FLOORS	1168	1	1168
6	4851		SUB-TOTAL BTUH LOSS			
7	x 7		ADJUSTMENT FACTOR (TABLE C)			
8	33957		TOTAL BTUH LOSS			
9			(^① NUMBER OF PEOPLE) <u>6</u> x 300			1800
10			APPLIANCES			1200
11			SUB-TOTAL BTU GAIN			12965
12			MOISTURE REMOVAL (SUB-TOTAL x 1.3)			x 1.3
13			TOTAL BTU GAIN			16855
14	^① x 1.15		DUCT LOSS/GAIN FACTOR			^① x 1.10
15	39050	TOTAL			TOTAL	18540

① Calculate only if duct is located in an unconditioned space. Assumes not less than 2" flexible insulation.

② Assume two persons per bedroom (divide this load in living quarters when making room-by-room calculation or sizing duct system).

TABLE A — HEATING — DOORS & WINDOWS

Window Types (New Tight)	Heating Factor	X Area	= BTUH Loss
DB Hung—Single Glass	15.0		
—Double Glass	10.0	85	850
—W/Storm	8.0		
Fixed—Single Glass	14.0		
—Double Glass	9.0		
Jalousie With Storm	22.0		
Sliding Glass Doors	25.0	48	1200
Wood Door With Storm	15.0	36	540
TOTALS			2590

TABLE B — COOLING — DOORS & WINDOWS

	SINGLE GLASS				DOUBLE GLASS				X Area	= BTUH Gain
	TEMP. DIFF.				TEMP. DIFF.					
	BTUH/SQ. FT.				BTUH/SQ. FT.					
Direction	15°	20°	25°	30°	15°	20°	25°	30°		
N	20	25	30	30	15	20	20	25	48	960
NE & NW	35	40	45	50	30	35	35	40		
E & W	55	60	60	65	45	50	50	55	16	800
SE & SW	45	50	55	55	40	40	45	45		
S	30	35	35	40	25	25	30	30	69	1725
Doors†	13.5				13.5				28	378
TOTALS										3863

†Glass doors are treated as windows

TABLE C — ADJUSTMENT FACTORS — (HEATING)

DESIGN TEMPERATURE DIFFERENCE	25	30	35	40	45	50	55	60	65	70	75	80	85	90
ADJUSTMENT FACTOR	3	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9

ESTIMATING PROCEDURE – HEATING

TABLE 1

DO NOT USE FOR ROOM-BY-ROOM CALCULATIONS.

- Record customer's name, address and telephone number in the space provided on the worksheet.
- Record design temperatures in the space provided on worksheet.
- Measure the total length of outside walls and multiply by the ceiling height to obtain the square feet of gross exposed outside wall. Record in the Common Data Section of the worksheet after Gross Wall, Line 1.
- Select window and door types from Table A. Measure the total area in square feet for each type. Enter these totals on the appropriate line in Table A. Multiply each by the factors in the Heating Factor column and enter the individual totals in the BTUH Loss column of Table A. Now total this column and enter under BTUH Loss, Line 2, on the worksheet. Enter total glass area under Square Feet, Line 2.
- Subtract total door and window area from gross wall area to obtain net wall area. Record on Line 3.
- Measure and record total ceiling area on Line 4.
- Measure and calculate the total floor area and enter in the Common Data section – Floors, Line 5. If the floor is a slab on the ground record total length of perimeter only.
- From Table 1, select the heating factors for the various types of construction and enter in the Heating Factor column.
- Multiply the figures in the Square Feet column by the factors in the Heating Factor column and enter individual totals on appropriate lines in the BTUH LOSS column.
- Total the BTUH LOSS column and enter the sub-total on Line 6.
- Select a temperature difference adjustment factor from Table C (outdoor temperature subtracted from indoor temperature, or, when outdoor temperature is a minus figure, add the degrees below zero to the desired indoor temperature). Enter in the BTUH LOSS column, Line 7.
- Multiply the sub-total on Line 6, by the adjustment factor on Line 7 and enter the total on Line 8.
- When main trunk ducts, or most of the branch ducts, are located in an unheated (unconditioned) area, multiply the BTUH LOSS on Line 8 by the duct heat loss factor shown on Line 14 and enter the total on Line 15. This is the required minimum heating capacity in BTUH of the heating device to be installed.

CONSTRUCTION FACTORS FOR HEATING AND COOLING

HEATING FACTOR	CONSTRUCTION DETAIL	Outdoor Temp. °F			
		Temp. Difference °F			
		*COOLING FACTORS			
		90	95	100	100
		15	20	25	30
WALLS					
	Walls – Wood Frame w/sheathing and siding, veneer or other finish:				
3	A) no insulation	6.5	8	10	10
1.1	B) 1½" insulation	3	4	5.0	5.5
0.9	C) 2" insulation	3	3.5	4.5	5.0
0.7	D) 3" insulation	2.5	3	4.0	4.0
5	Solid Masonry, Block or Brick, Plastered or Plain	6.5	9.5	12.5	12.5
5	Basement (heated)	6.5	9.5	12.5	12.5
0.6	A) walls above grade – no insulation	0	0	0	0
	B) walls below grade				
CEILINGS					
	Ceiling under Unconditioned Space or Vented Attic (Sq. Ft.)				
6.0	A) no insulation	8	10	11	11
1.4	B) 1½" insulation	4	4	4.5	4.5
0.9	C) 3" insulation	2.5	2.5	3	3
0.6	D) 6" insulation	1.5	1.5	2	2
	E) Under unconditioned room	3.5	3.5	4.5	4.5
FLOORS					
	Floors, Wood Frame (Sq. Ft.)				
1.4	A) over enclosed unconditioned space	2.5	3.5	5	5
3.4	B) over vented space/garage, no insul.	3.5	5	7	7
1.5	C) over vented space, 1" insulation	2.3	3.3	4.5	4.5
0.9	D) over vented space, 2" insulation	1.0	1.5	2	2
0.7	E) over vented space, 3" insulation	0.5	1	1.5	1.5
0	F) over basement	0	0	0	0
0.3	Basement Floor	0	0	0	0
	Concrete slab floor (perimeter length only)				
8	A) no edge insulation	0	0	0	0
6.5	B) 1" edge insulation	0	0	0	0
5	C) 2" edge insulation	0	0	0	0
	Concrete slab floor with perimeter ducts in slab. (Use perimeter length only).				
19	A) no edge insulation	0	0	0	0
12	B) 1" edge insulation	0	0	0	0
9	C) 2" edge insulation	0	0	0	0

*Factors based on 75°F indoor temperature.

ESTIMATING PROCEDURE – COOLING

The construction areas on Lines 1 through 5 are the same as for Heating.

- From Table 1 select the cooling factors for the various construction features of the structure. Record in the Cooling Factor column. Only 3 are required.
- Multiply the area (except window and door) in the Common Data section by the chosen factors and record in the BTUH Gain column.
- Record, in Table B, the total window area for each orientation. Enter area of doors. Multiply the area on each line by the given factor. Enter results in the BTUH GAIN column of the table. Total the column. Enter this total on Line 2 of the worksheet in the BTUH GAIN column.
- Calculate number of people occupying the house at two per bedroom. Insert the number in the space provided in the center of Line 9. Multiply by 300 and enter the total under BTUH GAIN on Line 9 of the worksheet.
- Add the figures in the BTUH GAIN column and enter the sub-total on Line 11.
- Multiply this sub-total (Line 11) by 1.3 (Line 12) (to obtain the latent capacity for moisture removal) and enter the total on Line 13. This figure is the capacity required of the cooling system BEFORE any duct losses are accounted for. See Item 7.
- If there are no ducts in unconditioned areas ignore Line 14 and write the total obtained on Line 13 in Line 15. If there are ducts in unconditioned areas or spaces multiply the sub-total on Line 13 by the duct loss or gain factor shown on Line 14 and enter the total on Line 15. Apply these duct loss and gain factors to ducts with from no insulation at all to those with up to 2" of blanket material or 1" of rigid material.

**TABLE 2
WINDOW AREA**

Window Height, Ft.	1½	2	2½	3	3½	4	4½	5	5½	6
1½	2	3	4	4	5	6	7	8	8	9
2	3	4	5	6	7	8	9	10	11	12
2½	4	5	6	8	9	10	11	12	14	15
3	4	6	8	9	10	12	14	15	16	18
3½	5	7	9	10	12	14	16	18	19	21
4	6	8	10	12	14	16	18	20	22	24
4½	7	9	11	14	16	18	20	22	25	27
5	8	10	12	15	18	20	22	25	28	30
5½	8	11	14	16	19	22	25	28	30	33
6	9	12	15	18	21	24	27	30	33	36
6½	10	13	16	20	23	26	29	32	36	39
7	10	14	18	21	24	28	32	35	38	42



No.110.....

CERTIFICATE OF OCCUPANCY
THE CITY OF NAPOLEON

BUILDING ENGINEERING DEPARTMENT
DIVISION OF INSPECTION

This is to certify that the Building or Land as herein described complies with all the building and health laws and ordinances and with the provisions of the Zoning Ordinance.

Location of Occupancy 855 Welsted Street (Lot #14) Occupancy Single Family Residence
Owner of Property Norman H. Minnick Address 613 Euclid Avenue
Issued to Norman H. Minnick Address 613 Euclid Avenue
Zoning "A" Residence District Bldg. Permit No. 423-75

Substantial qualifications of occupancy

This certificate is issued by the City Building Inspector, as provided by law, and is to certify that construction is completed substantially in conformity with the approved plans and permission is hereby granted to occupy such building in compliance with such legal use and occupancy as authorized under the provisions of the ordinances of the City of Napoleon.

Issued this 20th day of May, 1977.

This is a valuable record for owner or lessee and should be so preserved.

Signed *Ronald D. Sonnenberg* City Building Inspector

