





might be dwelled upon under enumerate. the title of "odds and ends," tain the required amount of room. Most feet on the front or forty-five feet wide. rear. To plan the broad side of the house to the front makes the house shallow from front to rear and by setting well back on the lot you will thereby obtain a good

and artistic value. While every house also permits of placing two of the prinside of the house at the front and extend- the stairway that it will bring the stair ing it back a considerable distance to ob- hall on the second floor in the center of the house makes it possible to place the lots are between fifty and sixty-five feet bed rooms in the four corners, if the house wide. In a lot under sixty-five feet wide is square, thereby obtaining light and air it matters not whether the house is thirty and a good view from two sides of each room. The principal bearing partition on little lecture, stating that he hasn't figured In either case the space left on each side the first floor can also be carried up of the house can be used for little more through the second floor in the center of that he put in 1,200 feet, stating that he will than a passageway from the front to the the house, giving it a good back bone, When this occurs, the partitions should also be carried down through to the basement. So much in favor of the wide house,

HE entire planning of a home yard and other advantages which I will than any other mechanical part of a house or building. Each heating contractor has Placing the broad side of the house to his own pat theory, which he claims is a very satisfactory manner with a hot air for a house is composed of the front permits locating the stairway right, and that all other heating contract furnace, provided that it is properly inparts and materials through the center of the house. This fors who do not agree with him are wrong. which should all be assembled means that the entrance also will be in the careful with whom he deals and be plant a thorough test, or, to be more together as a harmonious whole, after the center, both to the porch and the business reasons, does not think much of sure that his furnace is of the proper size. having been considered separately as to house, which is desirable for outside ap- a hot water heating plant, and with a hot Most people put in a hot air heating plant year in which you build. their appropriateness and their financial pearance as well as inside convenience. It water heating man the reverse opinion is also naturally held. Laying aside all pet should be planned to suit its location, and cipal rooms in the front corners of the theories, pro or con, there is no doubt but the requirements of locations vary to a house where they can get a splendid view what the most practical heating plant for large extent, there are a few principles of the street and even from the side winwhich can be applied in most cases. It dows obtain a better view than if one of system. The reason that hot water heatmatters not whether a lot is fifty feet the rooms were located farther back in ing plants are not always a success is wide or one hundred feet wide, a better the house, which would be necessary were because of the manner in which they are plan can be obtained and more value and the house planned so narrow that the installed, and the owner is sometimes to enjoyment realized out of its situation stair hall would have to be placed in one blame for this, since he is too often tempted through placing the broad side of the of the corners. Placing the stair hall in to let his contract at the lowest possible house to the front than placing the narrow the center of the house and so planning bid that he can obtain regardless of the contractor's reputation.

We will take for example a certain house. requiring 1,000 feet of radiation. Contractor Brown states that he will install the plant complete in every respect for \$800. Conon sufficient radiation and recommends furnish such a plant complete for \$700, with really no intention of doing so, his real intention being to give the home builder but 900 feet of radiation, knowing that the There are probably more patented sys- home builder will never know the differsized front yard and a good sized back tems and attachments for heating plants ence, unless he has the architect superin-

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the following winter, and then it is too late, for the contractor has obtained the owner's satisfactory acceptance of the very common trick among some unscrupu ous heating contractors. A heating plant which would ordinarily require 1,900 feet of radiation can be operated and keep the house warm on 900 feet, but you must crowd the boiler by frequent attention to the fire and keep it burning up to a high pitch at all times during very cold weather, When both radiation and the boiler are of proper capacity a small even fire can be kept up which requires but little attention. The circulation throughout the plant is slow and easy and the water never boils over the expansion tank on the

While all facts point to the advisability of installing a hot water heating plant in an average sized home, there is no doubt but what a small home can be heated in stalled. Here again the home bullder has

course a good reason, when a man to limited to a certain amount in the con struction of his home. Some contractors realise this fact and select the cheapes apparatus that they can possibly get the owner to buy and pass it off as a heating plant with the usual results.

It makes no particular difference where the hot water boiler is located, but a furnace should invariably be located as near the center of the house as possible, even If it is necessary to carry the smoke pipe a long distance to the flue, for furnace hot air pipes, if carried any great distance on a level, will not give heat. Here is another point to take into consideration. It is practical to put hot water radiators around the outside walls of a house preferably near the windows, to heat the cold air as it enters. In a hot air plant, however, it is more practical to place the registers in every room where they will take the least amount of pipe to connect with the furnace. Every furnace pipe should have a damper in the basement for it very often occurs, where two pipes leave the furnace near each other, that the one having the shortest run to the register takes the heat from the other Under these circumstances it would be best to partially close the damper in the pipe conducting more than its share of heat into the other so as to throw the heat into the other pipe. All hot air heating plants should be regulated in this manner and tend the construction of the house, until when the dampers are once regulated in a manner that Insures an even distribu tion of heat they should then be wired in lace so ant their positions cannot be

After reading the above a prospective home builder will naturally ask how he is ting the right amount of radiation with out going to the expense of hiring an expert to examine the plant or engage the architect to superintend the construction of his house. The most practical way to handle this situation is to have the contractor guarantee a sufficient amount of radiation. In other words, do not ask s heating contractor to figure on a certain amount of radiation, but lay your plans before him, telling him that you want the best figure on a heating plant, complete in every detail, which will heat your house to 70 degrees in coldest weather. State amount of radiation he agrees to furnish to do the work properly, and that in your protection you are going to reserve 10 per cent of the amount of his bid until the first cold spell, enabling you to give the

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