

CASS NEWS

Theresa Drover was hostess last Sunday afternoon to several friends on her thirteenth birthday. Games were played and refreshments served the merry-makers. Those present were Miss Mable Oldfield, her teacher, Helen and Gladys Schlacka, Frank Michel, Clara Lena and Rudolph Zarn, Gladys and Gordon Oldfield, Margaret and Edna Moehl, Grace Bartlett, Joseph Drover and Rose Schlacka.

Alfred Peterson, while driving to Hinsdale Tuesday, saw a gopher. This is very unusual at this time of the year according to the young man and denotes (so we think) that the gopher must have been "nuts" to be out in that kind of weather.

Many people from this vicinity attended the Christmas exercises at Miss Georgia Gregory's Westmont school last Friday night. There was a tree, Santa Claus was there and the children entertained him and the visitors with a program of songs and recitations. In return he presented them with a gift and candy.

The Ladies Aid of the Cass Church met in the church parlors Tuesday, Mrs. Carley was the hostess and a fine meeting was enjoyed.

Saturday evening the Cass Church will have its annual Christmas exercises for the children.

Mrs. Warren Littleford returned Wednesday from the Presbyterian hospital where she underwent an operation for appendicitis.

Center Cass school will hold its Christmas exercises today. There will be speaking, singing, a tree and the usual thing incident to the season. Miss Mable Oldfield is the teacher.

FOUR ACT DRAMA "DUST OF EARTH" DEC. 27 AND 29

Young folks of the Baptist Church will give the four-act drama, "The Dust of the Earth" at the church next Tuesday and Thursday nights, December 27 and 29. There will be no admission charge, but a free-will offering will be taken which will go to the Oak Forest Infirmary.

The play is to be given under the direction of Miss Lelia Teloir Hendren, of the Chicago School of Expression and Dramatic Art, and the participants have been practicing faithfully for many weeks.

NOTICE

The County of DuPage is planning to establish a patrol system on the following highways of the County:

York Road from the north line of the County south to Hinsdale. Highland avenue, from Lombard south through Downers Grove to Le-mont.

Joliet Road from Glen Ellyn south through Lisle to the south line of the county.

Bloomington Road from Bloomington south through Cloverdale to Wheaton, and from Wheaton south over the Naperville Road to Naperville.

Bartlett Road from Bartlett south to West Chicago, and from West Chicago south over Joliet Road to the south line of the county.

Mainfield Road from Naperville south to the county line.

St. Charles Road from Elmhurst west to the county line.

Joliet Road running east and west through the southern part of Downers Grove township.

It will be necessary for patrolmen to furnish a team and suitable wagon to haul stone or gravel. The county will furnish grades and other necessary tools. The men will be paid by the hour for such time as they will work.

Anyone who desires to become a patrolman can get full information and should apply to E. L. Gates, County Seal of Highways, on or before Jan. 3, 1922, and fill out an application blank.

These blanks will be sealed and all opened at the same time before the Road Committee of the Board of Supervisors, who will have the men for the year 1922.

By Order of the Board of Supervisors of the County of DuPage, Illinois.

ORDINANCE NO. 9

AN ORDINANCE PROVIDING FOR THE CONSTRUCTION OF A SEWAGE TREATING PLANT IN AND FOR THE DOWNERS GROVE SANITARY DISTRICT, COUNTY OF DU PAGE AND STATE OF ILLINOIS.

BE IT ORDAINED, by the Board of Trustees, of the Downers Grove Sanitary District, in the County of DuPage and State of Illinois:

SECTION 1. That for the purpose of treating and purifying the sewage from the sewers now constructed, which may hereafter be constructed within the boundaries of the Downers Grove Sanitary District, a sewage treating plant shall be constructed and connected with said sewers, and with St. Joe Creek (hereinafter into which the treated sewage may be discharged);

SECTION 2. That for a site upon which the sewage treating plant may be constructed, maintained and operated, and for the purpose of ingress and egress to said plant, a tract of land shall be acquired by the said Downers Grove Sanitary District, in the manner provided by law, the description of said tract of land being as follows, to-wit:

That part of Lots Five (5) and Six (6) of Assessment Plat of part

of the A. C. Ducat estate, said Lot Five (5) being a part of the southwest quarter of Section 7, Township 38, North, Range 11, East of the Third Principal Meridian, and said Lot Six (6) being a part of the southeast quarter of Section 12, Township 38, North, Range 10, East of the Third Principal Meridian, described as follows: beginning at the southwest corner of said Lot Six on the center line of the Belmont Road; thence north 88 degrees 26 feet east, 247.3 feet along the south line of said Lot Six; thence northerly 1.85 feet parallel to the township line; thence north 88 degrees 26 feet east 426.5 feet to a point on the township line 1.85 feet north of the southeast corner of said Lot Six; thence north 65 degrees east 218 feet along the southern line of said Lot Five to a stake set in the line; thence northerly 215.32 feet parallel with the township line; thence south 88 degrees 26 feet west 200 feet to the township line and thence continuing south 88 degrees 26 feet west 700 feet; thence southerly parallel to the township line 458.5 feet; thence south 88 degrees 26 feet west 672.8 feet to the center of the Belmont Road; thence southerly along the center line of said Belmont Road 20 feet to the place of beginning, containing 7.43 acres, more or less, all situated in the County of DuPage and State of Illinois.

SECTION 3. That for the purpose of conducting the sewage from the terminus of the present outlet sewer to the treating plant, a 21 inch vitrified tile outfall sewer shall be constructed.

SECTION 4. That for a right of way upon which said outlet sewer may be constructed and maintained, the right to the use of a strip of land 12 feet wide to be obtained by condemnation or otherwise, said strip of land being six feet each side of a center line described as follows:

Beginning at the present terminus of the 18 inch outlet sewer from the village of Downers Grove, being on the center line of Gilbert Avenue projected 250 feet west of the west line of Lots Six and Eight of Maple Grove Addition to Downers Grove; thence south 66 degrees 51 feet west 261.5 feet to a point on the north and south center line of Section 7, 101.6 feet south of the center of said Section 7; thence continuing south 66 degrees 51 feet west 335.7 feet; thence south 44 degrees 50 feet west 327.3 feet to a point on the east line of Lot Four of "Wooded Homes Subdivision" 114.3 feet north of the southeast corner of said Lot Four; thence continuing south 44 degrees 50 feet west 530 feet to a point on a line parallel with and 116.13 feet east of the east line of Forest Avenue in said "Wooded Homes Subdivision"; thence south 88 degrees 26 feet west 1467.03 feet to a point on the east line six feet south of the northeast corner of a piece of land hereinafter described as a site for the sewage treating plant; all of said right of way being situated on the south half of Section 7, Township 38, North, Range 11, East of the Third Principal Meridian, in the County of DuPage and State of Illinois.

SECTION 5. That a 24 inch internal diameter vitrified tile pipe sewer be constructed from the terminus of the present 18 inch outlet sewer from the village of Downers Grove, along the center line of the right of way hereinafter described, to the site for sewage treating plant hereinafter described, where it shall be extended to connect with the settling tank hereinafter described, and further extended beyond the settling tank for a distance of 125 feet, where it shall connect with an 18 inch vitrified tile pipe sewer 275 feet long and running in a southerly direction for discharge into St. Joseph Creek.

SECTION 6. That eight circular brick manholes 1 foot internal diameter shall be constructed over and along the course of said sewer and connected therewith. Each manhole shall be constructed of brick masonry walls 8 inches thick, resting upon a concrete bottom 6 inches thick, and having a channel across it of the same size and depth as the sewer pipe. Each manhole shall be provided with a cast iron top frame and cover of the best quality of Suburban Standard, and weighing not less than 200 pounds each.

SECTION 7. That at two places where the above-said right of way crosses St. Joseph Creek, the 24 inch sewer pipe shall be carried above the bed of the creek in a reinforced concrete girder 2 feet wide by 2 feet 8 inches deep, said girder being carried on concrete piers placed 30 feet center to center. Said piers to extend from the bottom of the girder to a level at least 12 feet below the lowest ground level at each pier site. The bottom of each pier shall consist of a concrete slab 3 feet wide and 6 feet long and one foot thick.

SECTION 8. That a sewage treating plant shall be constructed on the plant site hereinafter described, consisting of the following essential parts and such other parts and appliances as may be necessary for satisfactory operation:

A settling tank 18 feet wide by 48 feet long inside measure and 31 feet inside depth, with outside walls of concrete 1 foot 8 inches thick and bottom of concrete 8 inches thick. The upper part of the tank shall be divided into three compartments, consisting of a central compartment 3 feet wide down the length of the tank for gas vent, and on each side a settling compartment 7 feet 6 inches wide with sloping bottoms. The bottoms and partitions for separating these compartments shall be of reinforced concrete six inches thick. The lower or sludge digestion part of the tank shall be in three compartments separated by 8 inch reinforced concrete walls across the 18 foot dimension of the tank and each compartment shall have its bottom hopped to a central point at a slope of 8 inches vertical to 12 inches horizontal. Each of the three lower compartments shall be provided with an 8 inch diameter cast iron pipe and

gate valve for discharging accumulated sludge outside of the tank. The tank shall have a 15 inch diameter vitrified tile pipe connection from its eastern end to the main sewer and from its western end to the sump. It shall be so constructed that at some future date, if the necessity may arise, it will be possible to reverse the direction flow through the tank by providing inlet and outlet pipes at the reverse ends. A cover over the entire tank shall be constructed of 2 inch cypress planks on 2 inch by 6 inch cypress joists spaced 24 inches center to center.

A sump, pump house and dosing tank shall be constructed as one unit. The north wall of the pump house being 12 feet south of the south wall of the settling tank and the outside dimensions of this combined structure shall be 12 feet by 33 feet at the ground line. The sump shall be 10 feet by 20 feet inside measurement, with reinforced concrete walls 1 foot thick and floor six inches thick. The dosing tank shall be constructed as a second story above the sump and shall be of the same outside dimensions. The walls shall be of reinforced concrete one foot thick and the floors shall be 8 inches thick. It shall be provided with a cover constructed of 2 inch cypress planks. The pump house shall be of wood frame construction 12 feet square with reinforced concrete and iron grating for floor, located over the pump pit which shall be 10 feet square inside and 13 feet deep with reinforced concrete walls one foot thick and floor 8 inches thick.

A sprinkling filter shall be constructed 83 feet inside measure from north to south and 141 feet inside measure from east to west with reinforced concrete walls 8 inches thick at the top and 1 foot 1 inch thick at the bottom and 1 foot 1 inch above a 1 foot 2 inches wide. The filter floor shall be of concrete of an average thickness of 3 1/2 inches and shall be pitched to drain channels running north and south, spaced 7 feet center to center and constructed as part of the floor; said drain channels pitched to a main drain from east to west to the center of the filter where it shall connect in a manhole to a 15 inch vitrified tile drain, leading to the secondary sedimentation basin. The filter floor shall be covered with two courses of hard burned sewer brick laid flat. The lower course to be laid in rows running east and west with four inch space between rows, and the upper course to be laid in rows running north and south with one inch space between rows. Over the brick shall be filled with crushed limestone of sizes to pass through a ring 1 1/2 inch diameter and be retained on a ring 1 1/2 inches in diameter, to a depth of 7 feet 4 inches and to an elevation plus 16.00 feet. A secondary sedimentation basin shall be constructed 33 feet inside measure from north to south and 66 feet inside measure from east to west with a bottom of concrete six inches thick reinforced with woven wire fabric and sloping at an angle of 45 degrees from all sides towards the center. This basin to receive sewage discharged from the sprinkling filter, and an outlet at its western end to discharge sewage into the 18 inch tile outlet to the creek hereinafter described.

A sludge drying bed shall be constructed 25 feet inside measure from east to west and 50 feet inside measure from north to south and shall be surrounded by concrete wall 6 inches thick by 2 feet 8 inches high with the bottom extended to a width of 1 foot 4 inches for a footing; the earth inside these walls shall be excavated to elevation 7.00 and two lines of 6 inch drain tile shall be laid parallel to and six feet inside of the east and west walls connecting to one line of 8 inch drain tile, running in an eas-

terly direction across the center and being extended to connect to the 18 inch tile outlet to creek as hereinbefore described. Upon the surface of the ground after excavation, shall be spread clean pit run gravel to a depth of 6 inches and then clean coarse sand to a depth of six inches additional, thus bringing the surface to elevation 8.00. Upon the surface of the gravel, at the north end of this bed, and adjoining the north wall at its center, shall be laid a six in. concrete slab, 5 feet wide parallel to the north wall, and 8 feet wide perpendicular thereto.

An outlet abutment shall be constructed of concrete at the terminus of the 18 inch tile outlet to the creek as further detailed upon the plans for the work attached hereto.

SECTION 9. That the operation of said sewage treating plant shall be as follows: fresh sewage shall enter the eastern end of the settling tank through the 15 inch tile pipe and shall pass through either one or both of the settling compartments, at a greatly reduced rate of flow, allowing a part of the suspended solid matter to settle out and pass down over the sloping bottom, and into the lower or sludge digestion compartment. The sewage shall then leave the settling tank at its western end by way of the 15 inch tile outlet pipe and flow to the sump, from which it shall be pumped to the dosing tank. The pumping machinery shall be provided with 6 inch suction and discharge pipes and shall consist of two open impeller vertical centrifugal pumps, direct connected to two vertical electric motors together with all valves and pipe connections complete as further detailed on plans for the work attached thereto. One pump for pumping out from the sump, shall have a capacity of 550 gallons per minute and shall be driven by a 5 h. p. electric motor. The other pump, for pumping from sump or from secondary sedimentation basin, shall have a capacity of 500 gallons per minute and shall be driven by a 7 1/2 h. p. electric motor. Automatic controlling apparatus shall be provided, so that the stopping and starting of one pump shall be done by the rising and falling of the sewage in the sump; the other pump shall be operated by hand controlled mechanism. The sewage shall be discharged from the dosing tank by a 12 inch diameter automatic syphon, at intervals when the dosing tank shall be filled to the proper height with sewage pumped from the sump. Fourteen inch diameter cast iron pipe shall be connected to the discharge end of the syphon and shall conduct the sewage

to the outside of the filter walls where it shall be distributed through a system of ten cast iron pipes spaced 14 feet apart over the filter floor to sixty steel pipes 3 inches diameter spaced 14 feet 10 inches apart along each distributing pipe which shall rise to the surface of the filtering material and shall each be provided with

a suitable nozzle for spraying the sewage over the surface of the filtering material. The sewage shall then trickle down through the filtering material and shall be collected by the system of filter drains hereinafter described and shall be conducted to (Continued on Page 9).

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