Continued from page 9

extended of Sheridan Road, except the pavements herein proposed to be constructed at the intersections of said Hawthorn Lane south line of Remy Park Subdivision where covers shall be set in mortar upon the top (18) inches by twenty-two (22) inches, cent of magnesia (MGO). with Poplar Street, Myrtle Street, Fairview | the proposed pavement, including integral of the said brick masonry in such a man- and the average thickness of the metal Avenue, and Woodland Avenue; ELDER curbs, shall be twenty-seven (27) feet six ner that the top surface of the said grate composing said catch basin cover shall the construction of the said reinforced LANE from the present pavement in Wilson Street to the southwesterly line ex- inches of which said proposed pavement at the point where said catch 2 and 3. Each of said covers shall be curbs, the said sidewalk approaches, the tended of Sheridan Road, except the pave- shall be laid east of and adjoining the cen- basin shall be located, and the curb portion set in mortar upon the top of the said bases of inlets, the said mortar for Avenue; SUNSET ROAD from the pavement | the center line of Essex Road. Street and from the present pavement in with the proposed concrete pavement, in pavement, all as shown by Figs. 2 and 19. located, as shown by Figs. 2 and 19. Park Subdivision, except the pavement here- | shall be twenty-four (24) feet. in proposed to be constructed at the intersubdivision easterly and northeasterly shall be ten (10) feet; the radius of the provided for, and as shown by PLATE 1 manhole covers shall have an internal along curved lines to a point north of and curb corner at the northwest corner of and Figures 1, 2 and 19. opposite the east end of the curved line Essex Road and Winnetka Avenue shall be There shall be constructed along the bounding the northwesterly portion of the ten (10) feet; the radius of the curb cor- lines of the said improvement, as indipublic park in said subdivision lying west ner at the southwest corner of Essex Road cated on PLATE 1, five (5) catch basins. of Woodland Avenue, thence east in a and Elder Lane shall be sixty (60) feet; Each of said catch basins shall have an straight line parallel with the straight line the radius of the curb corner at the south- internal diameter of four (4) feet, as and said straight line extended bounding west corner of Hawthorn Lane and Fair- shown by Figs. 1 and 2, and each of said the north side of the several public parks in view Avenue shall be twelve (12) feet; the catch basins shall have a flat bottom of said subdivision to a point north of and op- radius of the curb corner at the northeast brick masonry six (6) inches in thick- two (2) new cast iron manhole covers, posite the west end of the curved line bound- corner of Wilson Street and Winnetka Ave- ness extending under the entire catch leach weighing not less than four huning the easterly portion of the public park | nue shall be sixty (60) feet; the radif of basin, and shall have brick masonry walls in said subdivision lying east of Essex the curb corners at Bertling Lane and eight (8) inches in thickness, and shall Road, thence easterly, southerly and west- Winnetka Avenue shall be thirty (30) feet; be provided with a cast iron manhole erly parallel with the said curved line the radius of the easterly curb of the road- cover weighing not less than four hunbounding the easterly end of said last men- way herein proposed to be constructed at dred eighty (480) pounds. Said manhole tioned public park to a point south of and the west end of the most westerly public cover shall have an internal diameter of opposite the west end of said curved park in the Remy Park Subdivision shall be twenty-four (24) inches, shall be nine manhole covers shall be perforated to boundary line, thence west in a straight line thirty-seven (37) feet six (6) inches; the (9) inches in height and shall have an permit the entrance of water, as shown parallel with the straight line and said radius of the westerly curb of the roadstraight line extended bounding the south way herein proposed to be constructed at side of the several public parks in said sub- the east end of the most easterly public perforated to permit the entrance of wadivision to a point south of and opposite park in the Remy Park Subdivision shall be ter. The height of the brick work over catch basins in such a manner that the the east end of the curved line bounding the thirty-seven (37) feet six (6) inches; the southwesterly portion of the said public radius of the most easterly curb at the park lying west of Woodland Avenue, thence east end of the pavement herein proposed Each of said covers shall be set in mornorthwesterly and westerly along curved to be constructed at the east end of Sunset lines to and connecting with the pavement | Road in the Remy Park Subdivision shall be hereinbefore proposed to be constructed in fifty-six (56) feet six (6) inches; the radii face of the said perforated lid shall be said Sunset Road at the west line of said of the reverse curves where the two Remy Park Subdivision, except the pave- branches of the pavement herein proposed ment at the point where said catch baments herein proposed to be constructed at to be constructed in Sunset Road in Remy sin shall be located, as shown by Figs. the intersections of said Sunset Road with Park Subdivision merge into the single pave-Woodland Avenue, and except the pave- ment herein proposed to be constructed at ments herein proposed to be constructed at | the west line of said Remy Park Subdivithe intersections of said Sunset Road with sion shall be fifty-six (56) feet six (6) Essex Road; HILL ROAD from the present | inches; the radii of all other curb corners pavement in Wilson Street to the present | shall be twenty-five (25) feet. The roadpavement at the west line of Trier Center | ways of all street returns to be covered with Neighborhood Subdivision; that portion of the concrete pavement shall be of the same WINNETKA AVENUE within the Village width as the present pavements which conof Winnetka from the northeasterly line ex- nect with said street returns, and the width tended from the northwest of the right of of all other roadways, including integral way of the Chicago, North Shore and Mil- curbs, herein proposed to be constructed waukee Railroad to the west line of the shall be nineteen (19) feet; all in the Vilsoutheast quarter of section twenty-one lage of Winnetka, County of Cook and State (21), township forty-two (42) north, range of Illinois. thirteen (13) east; also WINNETKA AVE-NUE from the said west line of the south- further shown and described upon certain east quarter of section twenty-one (21) and plates or drawings showing plans, sections, from the west line of the northeast quarter grades, elevations and details, which are of section twenty-eight (28), township and hereto attached and made a part of this range aforesaid, to the east line and the ordinance and marked respectively PLATE east line extended of the west half of the 1 and PLATE 2. The said several plates said northeast quarter of section twenty- or drawings showing said plans, sections, eight (28) aforesaid; also that part of grades, elevations and details, and each and WINNETKA AVENUE within the Village all of the contents thereof, are herewith of Winnetka from the east line extended made a part of this ordinance with the of said west half of the northeast quarter same force and effect as if the said plans, of section twenty-eight (28) aforesaid to sections, grades, elevations and details apthe southwesterly line extended from the pearing upon said plates or drawings were northwest of Sheridan Road; BERTLING set out or described in words and figures LANE from the pavement herein proposed herein. Wherever the abbreviation "Fig." to be constructed in Winnetka Avenue to is used in this ordinance, it shall mean Figand connecting with the present pavement ure. All such figures referred to in this in said Bertling Lane fifty-eight (58) feet ordinance are shown upon said PLATE 2. north of and parallel with the north line extended of said Winnetka Avenue; also shall be composed of the following matethe street returns of Winnetka Avenue at | rials, to-wit: Wilson Street, Warwick Avenue, Abbottsford Road, and that portion of the south brick, cinders, steel wire reinforcement, street return of said Winnetka Avenue at drain tile pipe, cast iron covera asphaltic Essex Road within the Village of Winnetka, felt, and other materials cessary to conas far back as the street line of Winnetka struct the improvement herein provided for. Avenue extended be improved by adjusting present manhole covers, adjusting present improvement herein provided for shan we over an or said or said or said catchbasin covers, adjusting present concrete sidewalk approaches, resetting present feet and decimal parts of a foot above the feet. Each of said combination manholes PLATE 1. fire hydrants, resetting present electric established datum of the Village of Winnet- and catch basins shall have a flat bottom light poles, furnishing and setting new cast ka, Cook County, Illinois, as established by twelve (12) inches in thickness extending now located within the proposed lines of iron manhole covers and cast iron catch- ordinance of the said Village of Winnetka under the entire combination manhole and the pavement herein provided to be conbasin covers, constructing brick masonry passed on the twenty-third day of March, catch basin, and shall have brick masonry structed shall be reset in the parkway valve vaults, constructing new concrete sidewalk approaches, constructing vitrified, salt glazed tile road drains and connections, constructing brick masonry manholes with cast of the dimensions, and to the lines and hundred fifty (350) pounds, all as shown poles are respectively located. iron covers, constructing brick masonry grades herein provided for, and as shown by Figs. 16 and 17. Each of said catch. There shall be adjusted to the finished combination manholes and catchbasins with cast iron covers, constructing brick masonry catchbasins with cast iron covers, constructing cast iron sewer inlets each on a drains herein provided to be constructed (22) inches, and the average thickness of crete sidewalk approaches, where the said concrete base, refilling tile road trenches under the said pavement, as shown on said metal composing said catch basin cover sidewalk approaches do not conform to under proposed pavements with sand, refill- plates, which said trenches shall be one (1) inch, all as shown by Figs. the said finished grades, by raising or ing all other tile road drain trenches in said filled with sand. In the said trenches, 1, 2, 3, 16 and 17. Each of said covers shall lowering the said sidewalk approaches as proposed improvement with equal parts there shall be laid at an average depth of be set in mortar upon the top of the said required, so that said approaches shall cinders and earth, excavating, grading and three and one-half (31/2) feet, three thousand brick masonry in such a manner that the meet the said integral curb and shall be preparing the subgrade to receive the pro- six hundred forty-five (3,645) linear feet top surface of the said grate shall be flush even, smooth and continuous. posed pavement, grading and leveling the of four (4) inch vitrified, salt glazed tile with the surface of the said pavement at Throughout the course of the improveparkways, grubbing, removing all surplus ex- pipe for road drains, and two thousand the point where said combination manhole ment herein provided for, there shall be ment and snall be normal to the center cavated materials and paving with a one (1) course reinforced Portland cement concrete pavement with integral curbs, with pipe for road drains, including catch basin be on the line and grade of the approaches, where it shall be filled with an asphaltic felt asphaltic felt filled joints, including a two and inlet connections, laid at an average said pavement where said combination man-necessary to connect (2) inch earth covering upon said pave- depth of four and one-half (41/2) feet, and hole and catch basin shall be located, in sidewalk approaches with the said intement, the wetting and cleaning of the said one hundred seventy (170) lineal feet of such a manner as to receive the water from gral curb herein provided for. The said concrete wearing surface of said proposed ten (10) inch vitrified, salt glazed tile bell the surface of the said pavement, all as sidewalk approaches herein provided to half (1/2) inch above the top surface of pavement, including all labor and material, and spigot pipe for road drains, laid at an shown by Fig. 17. Each of said combinable constructed shall be five (5) feet four and engineering and supervision during the average depth of eight (8) feet, as shown tion manholes and catch basins shall be (4) inches in width, four (4) inches thick

quarter of section twenty-one (21), township forty-two (42) north, range thirteen

(13) east, shall be fourteen (14) feet. east quarter of section twenty-eight (28) tion twenty-eight (28) aforesaid shall be the proposed pavement in Essex Road width, as shown by Figs. 22 and 23. where the proposed pavement, including inproposed pavement shall be laid south of Portland cement and two (2) parts sand. and adjoining the center line of Winnetka Avenue and the remaining twenty-five (25) Winnetka Avenue.

with the proposed concrete pavement including integral curb, in that part of Win- vided to surround the public parks located (1) part Portland cement, two (2) parts netka Avenue within the Village of Winnetka from the east line extended of the west half of the northeast quarter of said section twenty-eight (28) to the southwesterly line extended from the northwest of Sheridan Road shall be fourteen (14)

of menes thick, owerfurnished with a cast iron

The improvement herein provided for is

The improvement herein provided for

Portland cement, crushed limestone, sand, The elevations, lines and grades of the four (4) feet. The height of brick work as shown on said plates, and are given in holes and catch basins shall be seven (7) A. D. 1915.

provided for shall be made to the depth, basin cover weighing not less than three be constructed where said electric light upon said plates.

course of said improvement to receive the grate eighteen (18) inches by twenty-two fifty (1950) square feet of present confifteen (2,015) lineal feet of eight (8) inch and catch basin shall be located, and the constructed a total of two thousand ten vitrified, salt glazed tile bell and spigot curb portion of said catch basin cover shall (2010) lineal feet of concrete sidewalk shall be one-fourth (1/4) inch in width

The width of the roadway to be covered the sides of said pavement to receive the | S. 9 and 10. with the proposed concrete pavement, in- vitrified, salt glazed tile bell and spigot pipe | masonry walls eight (8) inches in thick Winnetka Avenue from the west line of said | inlet connections, laid at an average depth | manhole cover weighing four hundred eighty (21) and from the west line of the north- teen hundred thirty (1,430) lineal feet of have an internal diameter of twenty-four east line and the east line extended of the average depth of eight (8) feet, as shown of metal of one (1) inch, all as shown by west half of the northeast quarter of sec- by PLATE 1 and Figs. 24, 25, 26 and 27. Figs. 11, 12 and 13.

sides of said pavement as herein provided, metal composing said cover shall be one (1) feet of said proposed pavement shall be laid the center line of said drains shall be lo- inch. Each of said inlet covers shall be north of and adjoining the center line of cated twenty-four inches back of the said set on a Portland cement concrete base integral curb, as shown by PLATE 1 and thirty-six (36) inches square by eighteen The width of the roadway to be covered Figs. 28, 29, 30, 31, 32, 33 and 34, except (18) inches deep. The concrete for said that the four (4) inch drains herein pro- base shall be composed by volume of one in Remy Park Subdivision snall be laid sand, and three (3) parts crushed limetwenty-four (24) inches inside of the edges stone. Each of said inlet covers shall be so of said pavements adjoining said public set upon the said concrete base that the parks, as shown by PLATE 1.

of the said improvement, as indicated on point where the said inlet shall be located, PLATE 1, one hundred thirty-one (131) in such a manner as to receive the water The width of the roadway to be covered catch basins. Each of said catch basins from the surface of the said pavement, and with the proposed concrete pavement, in shall have an internal diameter of four (4) the curb portion of said inlet cover shall be cluding integral curbs, in Woodland Ave- feet, and the height of the brick masonry on the line and grade of the integral curb shall be that said bricquets shall show no nue shall be nineteen (19) feet, except from over all of each of said catch basins shall of the said pavement where said inlet shall retrogression in strength within the perithe proposed pavement in Winnetka Avenue & six and one-half (61/2) feet, and each be located. The concrete base of each of ods specified. to the south line of Remy Park Subdivision of said catch basins shall have a flat bot- said inlets shall be molded or formed so as where the proposed pavement, including in- tom of brick masonry six (6) inches in to conduct the water into the eight (8) Age. feet six (6) inches in width, nine (9) feet basin, and shall have brick masonry walls provided for, and which connection shall 7 days (1 day in moist air, 6 six (6) inches of which said proposed pave- eight (8) inches in thickness and shall be connect said inlet with a present catch ment shall be laid west of and adjoining provided with a cast iron catch basin cover basin where said inlet shall be located, 28 days (1 day in moist air, 27 the center line of Woodland Avenue and weighing not less than three hundred fifty all as shown by PLATE 1 and Figs. 4 the remaining eighteen (18) feet of said (350) pounds, all as shown by Figs. 1, 2, and 5. proposed pavement shall be laid east of and. 18 and 19. Each of said catch basin cov- There shall be furpished and set in The width of the roadway to be covered eighteen (18) inches by twenty-two (22) three (3) new cast iron catch basin cov-

with the proposed concrete pavement, in- inches, and the average thickness of the ers, each weighing not less than three cluding integral curbs, in Essex Road shall metal composing said catch basin cover hundred fifty (350) pounds, having an adbe nineteen (19) feet except from the pro-shall be one (1) inch, all as shown by justable back or curb portion and pro-(6) inches in width, nine (9) feet six (6) shall be flush with the surface of the said be one (1) inch, all as shown by Figs. 1, concrete pavement, the said integral The roadway at curb corners shall be outlet in the form of a bend which shall catch basins, as indicated by PLATE 1,

> average thickness of metal of one (1) inch, and the lid of said cover shall be all shall be six (6) feet six (6) inches, all as shown by Figs. 1, 2, 20 and 21. tar upon the top of the said brick masonry in such a manner that the top surflush with the surface of the said pavebe provided with an eight (8) inch vitrified tile pipe outlet, in the form of a bend, which shall be set as shown by Figs. 1, 2 and 19, and to which shall be connected an eight (8) inch catch basin connection as hereinbefore provided for and as shown by PLATE 1 and Figs. 1, 2 and 19.

> There shall be constructed along the lines of the said improvement, as indicated on PLATE 1, four (4) manholes. Each of aid manholes shall have an internal diameter of four (4) feet, and the height of brick work over all of each of said manholes shall be eight (8) feet, and each of said manholes shall have a bottom of brick masonry six (6) inches in thickness extending under the entire manhole, shall have brick masonry walls eight (8) inches in thickness, and shall be provided with a cast iron cover weighing four hundred eighty (480) pounds, all as shown by Figs. 8, 9, 10 and 11. Each of said covers shall have an internal diameter of twenty-four (24) inches, shall be nine (9) inches in height, and shall have an average thickness of metal of one (1) inch. Each of said manholes shall be provided with five-eighth (%) inch round wrought iron foot rounds, as shown by Figs. 8, 9 and 10. The inside bottom and invert of each of said manholes shall be formed along straight or curved lines so as to conform to the direction of the flow of water through the manhole, as shown by Figs. 8, 9 and 10.

There shall be constructed along the lines of the said improvement, as indicated on said PLATE 1, eleven (11) combination manholes and catch basins. Each of said combination manholes and catch basins shall have an internal diameter of

by Figs. 22 and 23. In the said trenches, ternal diameter of four (4) feet. The parts sand and three (3) parts crushed by Figs. 3, 6 and 11. the Chicago, North Shore and Milwaukee there shall be laid, at an average depth of height of the brick masonry over all of each Railroad to the west line of the southeast three and one-half (31/2) feet, thirty-three of said valve vaults shall be six (6) feet. After the necessary roadway executathousand thirty (33,030) lineal feet of four six (6) inches, and each of said valve vaults tion, including grading, grubbing, the re-(4) inch vitrified, salt glazed tile pipe for shall have a flat bottom of brick masonry road drains, and thirty-six hundred seven- six (6) inches in thickness extending under The width of the roadway to be covered ty-five (3,675) lineal feet of eight (8) inch the entire valve vault, shall have brick cluding the integral curbs in that part of for road drains, including catch basin and ness, and shall be provided with a cast iron southeast quarter of section twenty-one of six and one-half (61/2) feet, and four- (480) pounds. Each of said covers shall ten (10) inch vitrified, salt glazed tile bell (24) inches, shall be nine (9) inches in in the township and range aforesaid, to the and spigot pipe for road drains, laid at an height and shall have an average thickness

The upper half of each of the joints of There shall be constructed along the lines twenty-eight (28) feet, except between the said four (4) inch drains shall be covered of the said improvement, as indicated on proposed pavement in Woodland Avenue and by a band of tar paper three (3) inches in PLATE 1, twenty-nine (29) inlets. Each of said inlets shall be furnished with a cast The joints of said eight (8) inch and iron inlet cover weighing three hundred tegral curbs, shall be thirty-nine (39) feet said ten (10) inch drains shall be filled with fifty (350) pounds, with an adjustable back in width, fourteen (14) feet of which said mortar composed by volume of one (1) part or curb portion, and shall have a horizontal grate eighteen (18) inches by twenty-two Where said drains shall be laid along the (22) inches, and the average thickness of top surface of the said grate shall be flush There shall be constructed along the lines with the surface of the pavement at the

adjoining the center line of Woodland Ave- ers shall have an adjustable back or curb place upon the brick masonry of present portion and shall have a horizontal grate catch basins, as indicated by PLATE 1,

section of said Sunset Road with Myrtle widened along curved lines; the radius of be set as shown by Figs. 1, 2 and 19, and twenty-nine (29) new manhole covers, meshes per linear inch, and not more Street; also SUNSET ROAD in said Remy the curb corner of to which shall be connected an eight (8) leach weighing not less than four hun-Park subdivision from the west line of said | Woodland Avenue and Winnetka Avenue | inch catch basin connection as hereinbefore the distribution of said pass a sieve having one hundred (100) diameter of twenty-four (24) inches, not contain vegetable or other deleterious shall be nine (9) inches in height and matter, nor more than three (3) per cent shall have an average thickness of metal by weight of clay or loam. Said sand of one (1) inch, all as shown by PLATE 1 and Figs. 9 and 11.

> There shall be furnished and set in place upon the brick masonry of present catch basins, as indicated by PLATE 1, manhole covers shall have an internal of one (1) part of said Portland cement diameter of twenty-four (24) inches, shall and three (3) parts of standard Ottawa be nine (9) inches in height, and shall sand, when similarly tested. have an average thickness of metal of one (1) inch, and the lid of each of said the backfilling of said trenches shall conby Figs. 20 and 21. Each of said covers shall be set in mortar upon the top of the brick masonry of the said present top surface of the said perforated lid shall be flush with the surface of the said pavement at the point where each of said catch basins shall be located, as shown by Figs. 2 and 19.

> Nineteen (19) present catch basin covers shall be adjusted to the lines and grades of the finished pavement herein opening and shall range from two and provided for where said catch basins shall one-half (21/2) inches down, so that not be located, in such a manner as to receive the water from the surface of the said pavement.

One hundred forty-one (141) present manhole covers shall be adjusted to the finished grade of the improvement herein provided for, where said manholes shall be located.

All catch basins, manholes, combination manholes and catch basins, and valve vaults herein provided to be constructed shall be constructed of brick masonry. Said brick masonry shall consist of first class hard burned sewer brick, laid in mortar composed by volume of one (1) part Portland cement and two (2) parts sand.

shall be set in mortar composed by volume of one (1) part Portland cement and two (2) parts sand, and shall be thoroughly coated with an asphaltic paint. All manholes herein provided to be

All cast iron covers herein provided for

constructed shall be similar in design to the present manhole at the east end of Sunset Road in Remy Park Subdivision, in Winnetka, Cook County, Illinois.

All catch basins herein provided to be constructed shall be similar in design to the present catch basin at the northwest corner of Elm Street and Lincoln Avenue, in Winnetka, Cook County, Illinois All cast iron sewer inlets herein provided to be constructed shall be similar in design to the present cast iron sewer inlet on the east side of Sheridan Road, three hundred (300) feet southerly from Humboldt Avenue, in Winnetka, Cook County, Illinois.

Five (5) present fire hydrants now located within the proposed lines of the pavement herein provided to be constructed shall be reset in the parkway at positions respectively two (2) feet back the integral curb herein provided to are respectively located, as shown by

Twenty (20) present electric light poles walls eight (8) inches in thickness, and at positions respectively two (2) feet back All of the necessary excavation herein shall be provided with a cast iron catch of the integral curb herein provided to

basin covers shall have an adjustable back grades of the improvement herein pro-Trenches shall be excavated along the or curb portion, and shall have a horizontal vided to be constructed, nineteen hundred

construction of the said proposed improve- by PLATE 1 and Figs. 24, 25, 26 and 27. provided with five-eighth (%) inch round at the edges and five (5) inches thick at

moval of surplus excavated materials, and the backfilling of trenches have been completed, the subgrade shall be prepared so that said subgrade, after being thoroughly rolled or tamped, shall be at the grade or elevation herein provided to receive the said paving material, as shown by PLATE 1, and Figs. 28, 29, 30, 31, 32

After the said subgrade has been pre pared, as herein provided, it shall be brought to a firm, unyielding surface by rolling with a self-propelled roller weighing not less than fifteen (15) tons; and all portions which are inaccessible to the roller shall be thoroughly tamped with a hand tamper weighing not less than fifty (50) pounds.

All cement herein provided to be used shall be some first class brand of Ameri following requirements:

a: The specific gravity of said cement shall be not less than 3.10. b: In a test for fineness, said cement shall leave by weight a residue of not

not more than twenty-five (25) per cent ing to the dimensions and the on a number two hundred (200) sieve. c: In a test for time required in set- | 28, 29, 30, 31, 32, 33 and 34. ting, said cement shall not develop initial set in less than thirty (30) minutes, and must develop hard set in not less than one forced concrete pavement herein pro-(1) hour, nor more than ten (10) hours.

d: The minimum requirements for ten-

Neat Cement.

days in water)...........600 pound

One Part Cement and Three Parts Standard Ottawa Sand. 7 days (1 day in moist air, 6 days in water)200 pounds 28 days (1 day in moist air, 27

days in water)......275 pounds e: The said cement shall not contain more than 1.75 per cent of anhydrous sulposed pavement in Winnetka Avenue to the Figs. 1, 2, and 3. Each of said catch basin vided with a horizontal grate eighteen phuric acid (SO₃), nor more than 3.9 per

All sand herein provided to be used in

ments herein proposed to be constructed at ter line of Essex Road and the remaining of said catch basin cover shall be on the brick masonry of the said mortar for setting the intersections of said Elder Lane with eighteen (18) feet of said proposed pave- line and grade of the integral curb of the basins in such a manner that the top cast iron covers, and the said mortar for Poplar Street, Myrtle Street and Woodland ment shall be laid west of and adjoining said pavement where said catch basin shall surface of the said cover shall be flush drain pipe joints shall consist of particles be located, in such a manner as to receive with the surface of the said pavement at graded from fine to coarse, with the herein proposed to be constructed in Poplar The width of the roadway to be covered the water from the surface of the said the point where said catch basin shall be coarse particles predominating. Said sand when dry shall pass a screen having four Wilson Street to the west line of the Remy cluding integral curbs, in Poplar Street Each of said catch basins shall be provided There shall be furnished and set in (4) meshes per linear inch. Not more with an eight (8) inch vitrified tile pipe place upon the brick masonry of present than twenty-five (25) per cent of said sand shall pass a sieve having fifty (50) meshes per linear inch. Said sand shall shall be of such a quality that mortar composed by weight of one (1) part Portland cement, and three (3) parts of said sand, when made into bricquets shall show a tensile strength, when tested at seven (7) and twenty-eight (28) days respectively, equal to or greater than the dred eighty (480) pounds. Each of said strength of bricquets composed by weight

> All sand herein provided to be used for sist of bank sand or Lake Michigan shore sand.

All crushed stone herein provided to be used in the construction of the said reinforced concrete pavement, the said integral curbs, the said bases for inlets, and the said sidewalk approaches, shall consist of clean, tough, durable crushed limestone, free from vegetable or other deleterious matter, and shall contain no soft, flat or elongated particles. The size of said crushed stone shall be such as to pass a two and one-half (21/2) inch round more than five (5) per cent shall pass through a screen having four (4) meshes per linear inch, and so that no intermediate sizes shall be removed.

All cinders erein provided to be used in the backfing of trenches and under the concrete sidewalk approaches herein provided to be constructed shall consist of clean boil inders.

All water sary to be used in the construction of sa improvement shall & clean Lake M. higan water. All four (4) inch road drain pipe here

provided to be used shall consist of ha well burned vitrified, salt glazed tile pir as shown by Fig. 24. All eight (8) in and ten (10) inch road drain pipe sh consist of well burned vitrified, salt glaz tile bell and spigot pipe, as shown Figs. 25, 26 and 27. All cast iron covers for catch basins,

manholes, combination manholes and catch basins, inlets and valve vaults herein provided for shall be constructed of tough gray iron, free from blow holes, cinder spots or cold shuts. The ultimate tensile strength thereof shall be not less than sixteen thousand (16,000) pounds per square inch. All cast iron covers above mentioned, after cast and before cooling, shall receive a thorough coat of an asphaltic paint. The said cast iron covers shall be set in mortar composed by volume of one (1) part Portland cement and two (2) parts sand.

The steel wire reinforcement herein provided for shall be that which is commonly known to the trade as "wife rabric" and shall be used in such quantity as shall weigh at least forty (40) pounds to each one hundred (100) square leet of pavement. All steel wire composing the said wire fabric herein provide to be used in the construction of the said reinforced concrete pavement shall be uni-The later fibrous tough and duetile. The said wire shall have an ultimate tensile strength of eighty-five thousand (85,000) pounds per square inch. The said wire reinforcement shall be placed not less than two (2) inches from the finished surface of the pavement and otherwise shall be placed as shown by Figs. 28, 29, 30, 31, 32, 33 and 34. The said wire reinforcement shall extend to within two (2) inches of all joints, but shall not cross said joints. Adjacent widths of said fabric shall be lapped not less than four (4) inches when the lap is made at right angles to the center line of the said pavement, and said adjacent width of said fabric shall be lapped not less than one (1) foot when the lap is made parallel to the center line of the said pavement.

Joints to provide for contraction and expansion shall be placed thirty (30) feet apart throughout the course of said paveline of said pavement. The said joints present extending from the bottom surface of the said pavement and the said integral curb herein provided for, to a height of onesaid finished pavement and curb.

Asphaltic felt one-four (1/4) inch in thickness shall be placed between all the Trenches shall also be excavated along wrought iron foot rounds, as shown by Figs. the center line, and shall be laid on a cast iron covers of catch basins, mansix (6) inch layer of cinders, as shown holes, vaults and inlets and the reinforced with the proposed concrete pavement, in- drains herein provided to be constructed along the lines by Figs. 14 and 15. The concrete pavement where said covers Cluding the integral curb in that part of Winnetka Avenue within the willage of well as shown on said plates, which said trenches of the said improvement, as indicated on approaches shall be composed by volume in alternate place of the said improvement, as indicated on approaches shall be composed by volume in alternate place of the said plates, which said trenches of the said improvement, as indicated on approaches shall be composed by volume in alternate place of the said valve vaults. Shall be located; and said felt shall expect the said plates, which said trenches of the said valve vaults. Shall be located; and said felt shall expect the said plates, which said trenches are provided in alternate place of the said valve vaults. Shall be located; and said felt shall expect the said plates, which said trenches are placed in the construction of said sidewalk approaches shall be composed by volume as shown by Figs. 22 and 23. In the said trenches, ternal diameter of four (4) feet. The parts sand and three (3) parts crushed by Figs. 3. 6 and 11.

All concrete herein provided for the construction of the said reinforced concrete pavement, the said integral curbs. said sidewalk approaches, and said bases for inlets, shall be composed by volume of one (1) part Portland cement two (2) parts sand and three (3) parts crushed limestone, and shall be mixed with water as herein provided. The sand and crushed limestone herein provided for shall be mixed thoroughly with sufficient vater. in a batch mixer, to produce a concrete of a consistency such that water will flush to the surface under light tamping, but the amount of water used shall not be sumcient to cause a separation of the coarse aggregate from the mortar, in handling the concrete.

All mortar herein provided to be used for the construction of said brick masonry, adjusting and setting said cast from covers, constructing said drain pipe joints, and can Portland cement which shall meet the for the exposed surfaces of the said integral curbs, shall be composed by volume of one (1) part cement as herein provided and two (2) parts sand as here in provided.

The reinforced concrete pavement he more than eight (8) per cent on a number in provided for shall be constructed one hundred (100) sieve and a residue of the subgrade herein provided for, a thereof as shown by PLATE 1 and There shall be constructed at the

time and as an integral part or the

for, an integral concrete curb, which shall be constructed along the sides of the said sile strength for bricquets one (1) inch pavement, except the said fourteen (14) foot pavement in Winnetka Avenue which shall have an integral curb constru only along the northerly side thereof. integral curb, as herein provided shall be constructed across the ends by PLATE 1, nor where catch manhole and catch basin covers are in provided to be located; and all of integral curb shall be constructed acco d ing to the dimensions and details thereof, as shown by Figs. 28, 29, 30, 31, 32

and 34.

per lineal foot......\$ 2,756.25 | STRAIGHT LINE AND SAID STRAIGHT

NETKA AVENUE AND THE NEMBER OF