

**AGENDA
CITY COUNCIL MEETING
May 21, 2019**

1. Call the Meeting to Order – 5:30 p.m.

2. Pledge of Allegiance

Anyone desiring to view the Open Meetings Act may do so. The document is available for public inspection and is located on the south wall of the Council Chambers.

The City Council may go into closed session to discuss certain agenda items to protect the public interest or to prevent the needless injury to the reputation of an individual and if such individual has not requested a public hearing.

3. Approval of Minutes – April 30, 2019 and May 7, 2019
4. Approval of Claims
5. Recognition of the Wayne Public Works, Water/Wastewater, and Senior Center Transit Departments as “Wayne County Heroes – 2019” – nominated on behalf of the students and staff at Wayne Community Schools
6. Action to approve the appointment of Phill Monahan as Fire Chief
7. Public Hearing: To consider the Planning Commission’s recommendation in regard to amending the Zoning Text, specifically Section 152.080 (D) Exceptions & (M) Permitted Condition Uses, of the B-1 Highway Business District. The applicant, Wayne Veterinary Clinic (Mark and Lauri Zink), wish to build closer than 100 feet from the border of their property. The address is 610 Thorman Street.

Background: The Planning Commission met on May 6, 2019, regarding a request from Mark and Lauri Zink, d/b/a Wayne Veterinary Clinic, to amend the zoning text in the Wayne Municipal Code to allow them to build closer than 100 feet to their property line. After some deliberation, the Planning Commission forwarded the following recommendation of approval:

- To amend the zoning text, specifically Sec. 152.080 (M) Permitted Condition Uses of the B-1 Highway Business District to add the following: (3) Veterinarian, veterinarian services or animal hospitals; provided any such building kennel or exercise runway is located at least 25 feet from any Residential District boundary; and
- To remove/delete the similar language from Sec. 152.080 (D) Exceptions. (3).

Their finding of fact was staff’s recommendation. Joel Hansen, Street and Planning Director, as well as Mark and Lauri Zink, will be present to answer any questions you may have.

8. [Ordinance 2019-6: Amending Wayne Municipal Code Section 152.080 \(D\) Exceptions and \(M\) Permitted Conditional Use](#)
9. [Resolution 2019-27: To provide joint services between the City of Wayne and Wayne County](#)

Background: This Resolution between the City and the County formalizes the intent to provide joint services to one another, when possible.

10. [Resolution 2019-28: Approving Agreement with Hydro Optimization and Automation Solutions for a Water and Collections Control System - \\$113,393](#)

Background: The SCADA system for our water and sewer systems are no longer being technically supported. We will have to make a determination of a new system soon. This communication will make it much easier to manage the entire system and help with troubleshooting from afar. The enclosed quote is from HOA. The new WWTF has this technology from HOA and the department speaks highly of it. Also, I reached out to JEO about the company and alternatives, and they said HOA is very good and would recommend their product over others. Payment options are to pay for the system outright at \$113,398 or take on a 5-year (\$2,538/mo), 7-year (\$1,876/mo) or 10-year (\$1,625/mo) lease (to own). The advantage of the lease is that maintenance (warranty work) and service calls are included. We have \$25,000 budgeted for “SCADA system upgrades” so I am asking HOA what the lease payments would be with \$25,000 down.

11. [Ordinance 2019-4: Amending Wayne Municipal Code, Section 78-132 Prohibited Parking; Southwest Quadrant of the City \(Second Reading\)](#)
12. [Ordinance 2019-5: Amending Wayne Municipal Code, Section 78-133 Restricted Parking 12:00 Midnight to 5:00 a.m.; Southwest Quadrant of the City \(Second Reading\)](#)
13. [Discussion regarding the Standard Specifications for Construction of Water, Sewer, Storm Sewer and Paving \(Part 3\) — Joel Hansen, Street and Planning Director](#)
14. **Action on Pay Application #1 in the amount of \$47,098.91 to I & A Construction LLP for the Wayne 2018 Pedestrian Curb Ramps CDBG #16-CD-108 project**
15. [Adjourn](#)

**MINUTES
CITY COUNCIL MEETING
April 30, 2019**

The Wayne City Council met in special session at City Hall on Tuesday, April 30, 2019, at 5:00 o'clock P.M.

Mayor Cale Giese called the meeting to order, followed by the Pledge of Allegiance, with the following in attendance: Councilmembers Dwaine Spieker, Terri Buck, Jon Haase, Jennifer Sievers, Chris Woehler, Jason Karsky, Matt Eischeid and Jill Brodersen; City Attorney Amy Miller; City Administrator Wes Blecke; and City Clerk Betty McGuire.

Notice of the convening meeting was given in advance by posting in three places on April 25, 2019, and a copy of the meeting notice and agenda were simultaneously given to the Mayor and all members of the City Council. All proceedings hereafter shown were taken while the Council convened in open session.

Mayor Giese advised the public that a copy of the Open Meetings Act was located on the south wall of the Council Chambers and was available for public inspection. In addition, he advised the public that the Council may go into closed session to discuss certain agenda items to protect the public interest or to prevent the needless injury to the reputation of an individual and if such individual has not requested a public hearing.

The following items were discussed:

- Virgil Kardell spoke to the Council on a proposed housing development he would like to undertake on property he owns north of Great Dane (approximately 75 acres). He is in the preliminary stages. He met with the County to talk about the possibility of having them pave the County road. Some of this road is in city limits. His hope is that the City would also consider working with the County on paving that road.
- Dr. Marysz Rames, President of Wayne State College, spoke about enrollment, student housing, and as an institution, where they would expand.
- Administrator Blecke and Street and Planning Director Hansen explained the purpose of the Problem Resolution Team and the process.
- Downtown Parking and Housing – Administrator Blecke stated that if the Council wants housing downtown, then the issue becomes parking – they looked at 2nd and Logan, the Riley's area, and the area behind the auditorium for potential parking.

Administrator Blecke explained the process for platting the area by the softball complex/lagoon/4th Street. The property has to be platted before the property can be sold. He noted that the community garden, for this year, can stay where it is at.

- Bressler Park Stage Renovation – Councilmember Brodersen distributed a couple of options/rough sketches of what the renovation of the stage could look like. She would visit more with staff in regard to what they can do to help alleviate some of the costs.
- Auditorium and auditorium apartment – Councilmember Brodersen advised the Council that the entryway is getting painted, as well as the entry corridor, and the ticket booth is getting refinished. Options are being looked at to renovate the apartment upstairs, which may spark interest for others in the downtown. It was noted that the auditorium, if kept, needs to be maintained. The concern was that this building is being underutilized.

Administrator Blecke stated the Fire Marshal looked at the apartment and was very supportive of it. Zach Heating was providing staff with an estimate of what it would take to move the heating and air conditioning system that is in there now.

- Proposed half-cent sales tax – Mayor Giese stated with the increased costs, he thinks it is in the best interest of Wayne residents to raise the sales tax an additional .5%. This would be a ballot initiative. Currently, we are at our max – 1.5%, but this can be increased by .5% with an interlocal agreement with the County, School, etc. The additional revenue could be used for park equipment, infrastructure, recreation, beautification, street maintenance, etc. Staff will research the matter for more details to bring back to Council.
- Water Update – Water Main and Controls – Staff updated the Council on the water line issues at the city auditorium. Staff was suggesting that with the Water Main Transmission project, that the “controls,” which would roll all system communications into one system be part of this project. This would be an additional \$115,000. If this were to be purchased, staff could run the entire water and sewer system from a tablet/computer from their home.
- City Engineer – Discussion took place on whether or not to appoint a city engineer. The last time Wayne appointed a city engineer was in 2007 and that was Olsson Associates.
- City Hall Study – Staff recommendation was to hire an engineer to come in and tell staff what the issues are in this building, whether or not it is structurally sound, etc. Administrator Blecke has contacted two construction companies to give a free estimate of what they think it would cost to upgrade the building.
- Electric Power Update - Administrator Blecke and Electric Distribution Superintendent Tim Sutton updated the Council on this matter.
- Luke Virgil, WAED Director, gave an update on economic development, housing, existing and new businesses, and employment concerns.

Councilmembers Buck and Brodersen left the meeting at 6:40 p.m.

Councilmember Sievers made a motion, which was seconded by Councilmember Spieker, to adjourn the meeting. Mayor Giese stated the motion, and the result of roll call being all Yeas, the Mayor declared the motion carried and the meeting adjourned at 7:26 p.m.

**MINUTES
CITY COUNCIL MEETING
May 7, 2019**

The Wayne City Council met in regular session at City Hall on Tuesday, May 7, 2019, at 5:30 o'clock P.M.

Mayor Cale Giese called the meeting to order, followed by the Pledge of Allegiance, with the following in attendance: Councilmembers Dwaine Spieker, Terri Buck, Jon Haase, Jennifer Sievers, Chris Woehler, Jason Karsky, Matt Eischeid and Jill Brodersen; Attorney Eric Knutson; City Administrator Wes Blecke; and City Clerk Betty McGuire. Absent: City Attorney Amy Miller.

Notice of the convening meeting was given in advance by advertising in the Wayne Herald on April 25, 2019, and a copy of the meeting notice and agenda were simultaneously given to the Mayor and all members of the City Council. All proceedings hereafter shown were taken while the Council convened in open session.

Mayor Giese advised the public that a copy of the Open Meetings Act was located on the south wall of the Council Chambers and was available for public inspection. In addition, he advised the public that the Council may go into closed session to discuss certain agenda items to protect the public interest or to prevent the needless injury to the reputation of an individual and if such individual has not requested a public hearing.

Councilmember Brodersen made a motion, which was seconded by Councilmember Spieker, to approve the minutes of the meeting of April 16, 2019, and to waive the reading thereof. Mayor Giese stated the motion, and the result of roll call being all Yeas, the Mayor declared the motion carried and the Minutes approved.

The following claims were presented to Council for their approval:

VARIOUS FUNDS: ACES, SE, 901.25; AMAZON, SU, 377.84; AMERICAN BROADBAND, SE, 2472.45; AMERITAS, SE, 89.96; AMERITAS, SE, 72.00; AMERITAS, SE, 2547.66; AMERITAS, 81.29; APPEARA, SE, 34.21; APPEARA, SE, 47.20; BATTERIES PLUS, SU, 50.33; BATTERY SOLUTIONS, SU, 219.90; BEEHIVE INDUSTRIES, SE, 3600.00; BIG RIVERS ELECTRIC CORPORATION, SE, 201535.33; BLACK HILLS ENERGY, SE, 799.59;

BOMGAARS, SU, 1759.60; BORDER STATES INDUSTRIES, SU, 441.38; CARROT-TOP INDUSTRIES, SU, 411.96; CBS-REPORTING, SE, 450.00; CENTURYLINK, SE, 420.41; CITY EMPLOYEE, RE, 365.29; CITY OF WAYNE, PY, 72902.95; CITY OF WAYNE, RE, 725.26; CITY OF WAYNE, RE, 2594.70; COLONIAL RESEARCH, SU, 105.20; COUNTRY NURSERY, SE, 53.50; DANKO EMERGENCY EQUIPMENT, SU, 25.00; DAS STATE ACCTG-CENTRAL FINANCE, SE, 448.00; DEARBORN NATIONAL LIFE, SE, 99.76; ECHO GROUP, SU, 305.01; ECHO GROUP, SU, 98.92; ED M. FELD EQUIPMENT, SU, 371.60; ELLIS HOME SERVICES, SE, 509.29; FIRE CATT, SE, 3946.95; FIRST CONCORD GROUP, SE, 2841.76; CITY EMPLOYEE, RE, 2594.70; FLOOR MAINTENANCE, SU, 793.28; GALE/CENGAGE LEARNING, SU, 98.76; GERHOLD CONCRETE, SU, 3219.58; GODFATHERS PIZZA, SU, 89.83; GROSSENBURG IMPLEMENT, SU, 288.50; GROSSENBURG IMPLEMENT, SU, 456.96; HILAND DAIRY, SE, 48.57; HILAND DAIRY, SE, 52.94; HOLIDAY INN EXPRESS-GI, SE, 258.00; HOMETOWN LEASING, SE, 433.87; ICMA, FE, 720.02; ICMA, RE, 9930.42; INTERSTATE BATTERY SYSTEM, SU, 211.90; IOWA PUMP WORKS, SU, 553.82; IRS, TX, 2949.78; IRS, TX, 9371.08; IRS, TX, 12613.12; ISLAND SPRINKLER SUPPLY, SE, 151.17; JECH, LEAH, RE, 25.00; JOHN'S WELDING AND TOOL, SE, 61.90; KELLY SUPPLY COMPANY, SU, 734.92; MARCO TECH, SE, 123.84; METERING & TECHNOLOGY SOLUTIONS, SU, 3169.25; MILLER LAW, SE, 5416.67; MILO MEYER CONSTRUCTION, SE, 3680.00; MSC INDUSTRIAL, SU, 34.38; NE AIR FILTER, SU, 131.30; NE DEPT OF REVENUE, TX, 3867.30; NE DEPT OF TRANSPORTATION, SE, 1000.00; NE PUBLIC HEALTH ENVIRONMENTAL LAB, SE, 368.00; NNEDD, SE, 1170.00; NORTHEAST POWER, SE, 19346.48; NORTHEAST POWER, SE, 5255.00; NOVA FITNESS EQUIPMENT, SE, 104.00; QUALITY FOOD CENTER, SU, 13.68; RASMUSSEN AIR & GAS ENERGY, SU, 5328.21; REPCO MARKETING, SU, 45.30; SELECT APPLIANCE, SE 121.45; SHELLY FEHRINGER, RE, 150.00; STADIUM SPORTING GOODS, SU, 82.00; STAPLES, SU, 117.14; STATE NEBRASKA BANK & TRUST, RE, 16656.07; STATE NEBRASKA BANK & TRUST, RE, 57088.75; STEFFEN TRUCK EQUIPMENT, SU, 381.26; TOTAL GRAPHICS, SU, 3282.00; TYLER TECHNOLOGIES, SE, 200.00; ULINE, SU, 38.82; US BANK, SE, 7302.60; US FOODSERVICE, SU, 1213.81; VALLEY DRIVE PROPERTIES, RE, 100.00; VAN DIEST SUPPLY, SU, 731.25; VILLAGE OF PENDER, SU, 1200.00; WAED, SE, 7871.00; WAYNE COUNTY COURT, RE, 150.00; WAYNE COUNTY COURT, RE, 150.00; WAYNE COUNTY COURT, RE, 300.00; WESCO, SU, 966.21; WIGMAN COMPANY, SU, 103.28; WISNER WEST, SU, 182.31; WRECK-AMENDED TOWING & RECOVERY, SE, 200.00; WSC MEN'S SOCCER CLUB, SE, 500.00; WSC WOMEN'S SOCCER, SE, 1000.00; APX, SU, 144.77; AUTO ANATOMY ALTERNATIVES, SE, 888.10; CITY EMPLOYEE, RE, 2872.06; CITY OF PONCA, RE, 13425.22; CITY OF WEST POINT, RE, 19484.95; CITY OF WISNER, RE, 2030.41; CORE & MAIN LP, SU, 4513.12; DUTTON-LAINSON COMPANY, SU, 1759.46; EAKES OFFICE PLUS, SE, 30.00; EASYPERMIT POSTAGE, SU, 836.14; ECHO GROUP, SU, 72.60; ETS, SE, 2882.86; F & M BANK, RE, 726439.64; GERHOLD CONCRETE, SU, 1042.75; GONZALEZ, ANGEL, SE, 17.50; HAWKINS, SU, 872.50; HELENA AGRI-ENTERPRISES, SU, 2120.00; HILAND DAIRY, SU, 8.26; IOWA PUMP WORKS, SU, 89.94; LINDNER CONST, SU, 686.25; NE AIR FILTER, SU, 320.20; NPPD, SE, 27349.82; ONE CALL CONCEPTS, SE, 100.97; O'REILLY AUTOMOTIVE STORES, SU, 22.38; PAC N SAVE, SU, 973.29; PITNEY BOWES, SE, 253.85; PLUNKETT'S PEST CONTROL, SE, 280.36; PONCA RURAL FIRE BOARD, RE, 3213.74; PROGRESSIVE BUILDERS, RE, 250.00; RON'S RADIO, SU, 135.10; S & S WILLERS, SU, 300.08; STATE NEBRASKA BANK & TRUST, SE, 46.32; STATE NEBRASKA BANK & TRUST, RE, 474.42; STATE NEBRASKA BANK & TRUST, RE, 759516.67; STATE NEBRASKA BANK & TRUST, RE, 804036.67; VERIZON, SE, 636.56; VIAERO, SE, 67.12; VILLAGE OF WINSIDE, RE, 4295.64; WAYNE VETERINARY CLINIC, SE, 112.00; WAPA, SE, 18447.78; WORDPAY, SE, 152.93

Councilmember Brodersen made a motion, which was seconded by Councilmember Woehler, to approve the claims. Mayor Giese stated the motion, and the result of roll call being all Yeas, the Mayor declared the motion carried.

The Mayor proclaimed the week of May 19th – May 25th as “National Public Works’ Week.”

Mayor Giese declared the time was at hand for the public hearing to consider the Planning Commission’s recommendation regarding the “Preliminary Plat for Southeast Addition.” The applicant for the request is the City of Wayne.

This matter was tabled or continued from the meeting of April 2nd due to the lateness of the plat being prepared. The City Council has expressed an interest in selling/developing the land along the newly paved 4th Street. This preliminary plat starts the conversation of how it wants to develop this area.

Joel Hansen, Street and Planning Director, stated that the Planning Commission held a public hearing on May 6, 2019, and approved the same with the “Finding of Fact” being staff’s recommendation. This passed on a 5-1 vote. He reviewed the proposed preliminary plat for the Council. He noted that once the final plat is approved, the next step would be to rezone the property. At this time, it is zoned industrial. The plat subdivides the land into legal tracts that can then be sold. Otherwise, it would have to be sold in 10-acre tracts. He noted that this plat could be changed at any time.

Chele Meisenbach, who was the dissenting vote on the Planning Commission, spoke against the passage of the Preliminary Plat. She did not feel it was the right time to plat this property. She thought the City needed to give some of this development a little more time.

Councilmember Sievers agreed.

Mr. Hansen stated when you start looking around the community where someone can build a large apartment complex, you have the lot south of the Cobblestone Hotel and you have

one lot east of Northstar on 14th Street. Those are the only two available lots at this time. He addressed the parking issue at the sports complex. The parking is not supposed to be on the edge of the road; it is supposed to be in the complex parking lot.

Councilmember Woehler stated he had concerns with plotting a road through this area.

Mr. Hansen advised the Council that this area is zoned R-4. In addition, he stated that the State of Nebraska would provide signage off the highway to the Complex.

Councilmember Buck suggested having the Lagoon Committee start meeting again. BJ Woehler, who was present, also asked the Council to let the Lagoon Committee meet to bring ideas forward and start the planning process.

Councilmember Eischeid thought the lagoon had to be cleaned out or gone and that they needed to start with a clean slate before they starting planning everything in that area. If people do not like the plan City staff has put together, then they need to come up with something different.

Administrator Blecke stated the City has a half million-dollar investment in 4th Street. The purpose of this was to try to get development in that area and still have plenty of area for other recreation fields. The lower rugby fields never get used for recreation. They are only used for the college club rugby. This is developable land, and staff was thinking of this well before a developer came to the City. If you want to leave this property as is, then leave it as is. Staff is just giving recommendations from their standpoint and from whom they talk to through development.

City Clerk McGuire had not received any comments, either verbal or in writing, for or against this public hearing.

There being no further comments, Mayor Giese closed the public hearing.

Mr. Hansen noted that the entire south half of 4th Street is on unplatted city property. It is not dedicated as a right-of-way and that is what this preliminary plat is attempting to do.

Platting a street does not guarantee you will pave it or build it. It is just saying that this is dedicated if you do decide to build it.

Administrator Blecke stated many steps have to take place before any development can take place down there.

Councilmember Sievers introduced Resolution 2019-21, and moved for its approval; Councilmember Karsky seconded.

RESOLUTION NO. 2019-21

A RESOLUTION APPROVING THE PRELIMINARY PLAT FOR THE “SOUTHEAST ADDITION” OF THE CITY OF WAYNE, WAYNE COUNTY, NEBRASKA.

Mayor Giese stated the motion, and the result of roll call being all Yeas, with the exception of Councilmembers Haase, Woehler and Brodersen who voted Nay, the Mayor declared the motion carried.

Administrator Blecke stated the following Resolution would approve an agreement with Certified Testing Services, Inc., for concrete/construction materials testing for the “2018 Wayne Pedestrian Curb Ramp Project” – CDBG No. 16-CD-108. The fee of approximately \$6,000 to \$8,000 is for conducting 15 concrete tests with cylinder breaks. This is not a lump sum proposal. Certified Testing Services will only bill us for work completed.

Councilmember Sievers introduced Resolution No. 2019-25 and moved for its approval; Councilmember Buck seconded.

RESOLUTION NO. 2019-25

A RESOLUTION APPROVING AGREEMENT WITH CERTIFIED TESTING SERVICES, INC., FOR CONSTRUCTION MATERIALS TESTING SERVICES FOR THE “2018 WAYNE PEDESTRIAN CURB RAMP PROJECT” – CDBG NO. 16-CD-108.

Administrator Blecke stated that the City sought and received “Requests for Proposals” for engineering consulting services from the following four engineering firms for the “North Transmission Water Main Project:”

- ♦ JEO Consulting Group, Inc. – Basic Fee \$110,000 and \$11,000 for additional services needed for the “Drinking Water State Revolving Fund” should the City utilize this funding for the project - \$121,000.
- ♦ Olsson - \$139,300
- ♦ Leo A Daly - \$162,000
- ♦ Schemmer - \$307,200

Staff reviewed the proposals and are recommending that JEO Consulting Group, Inc., be approved/appointed as the special engineer for the above referred to project.

Roger Protzman representing JEO Consulting Group, Inc., was present to answer questions.

Administrator Blecke also noted that Mr. Protzman was the firm that brought up the State Revolving Loan Fund to staff. He has had a conversation with the State and by going through the State Revolving Loan Fund, you can receive a partial forgiveness of 12% on this project. Depending upon what the project comes in at, we could see a \$300,000 or better grant on this project.

Councilmember Eischeid introduced Resolution 2019-26, and moved for its approval; Councilmember Spieker seconded.

RESOLUTION NO. 2019-26

A RESOLUTION APPOINTING JEO CONSULTING GROUP, INC., AS THE SPECIAL ENGINEER TO BE USED ON THE “TRANSMISSION WATER MAIN FROM NORTH WELL FIELD TO CITY LIMITS PROJECT” FOR THE AMOUNT OF \$121,000.

Mayor Giese stated the motion, and the result of roll call being all Yeas, the Mayor declared the motion carried.

Joel Hansen, Street and Planning Director, stated that the following two ordinances pertain to prohibited parking and restricted parking on South Sherman Street. Our current ordinances stop the parking restrictions at Grainland Road. The amendment will take the parking restrictions to the “city limits.”

Councilmember Spieker introduced Ordinance No. 2019-4, and moved for approval thereof; Councilmember Buck seconded.

ORDINANCE NO. 2019-4

AN ORDINANCE TO AMEND WAYNE MUNICIPAL CODE, TITLE VII TRAFFIC CODE, CHAPTER 70 GENERAL PROVISIONS – PROHIBITIONS AND ENFORCEMENT, SECTION 78-132 PROHIBITED PARKING; SOUTHWEST QUADRANT OF THE CITY; TO PROVIDE FOR THE REPEAL OF CONFLICTING ORDINANCES OR SECTIONS; AND TO PROVIDE FOR AN EFFECTIVE DATE.

Mayor Giese stated the motion, and the result of roll call being all Yeas, the Mayor declared the motion carried. The second reading will take place at the next meeting.

Councilmember Spieker introduced Ordinance No. 2019-5, and moved for approval thereof; Councilmember Buck seconded.

ORDINANCE NO. 2019-5

AN ORDINANCE TO AMEND WAYNE MUNICIPAL CODE, TITLE VII TRAFFIC CODE, CHAPTER 70 GENERAL PROVISIONS – PROHIBITIONS AND ENFORCEMENT, SECTION 78-133 RESTRICTED PARKING 12:00 MIDNIGHT TO 5:00 A.M.; SOUTHWEST QUADRANT OF THE CITY; TO PROVIDE FOR THE REPEAL OF CONFLICTING ORDINANCES OR SECTIONS; AND TO PROVIDE FOR AN EFFECTIVE DATE.

Mayor Giese stated the motion, and the result of roll call being all Yeas, the Mayor declared the motion carried. The second reading will take place at the next meeting.

BJ Woehler was present to request permission to place a retaining wall in the City of Wayne right-of-way pursuant to Sec. 91-078 (B) of the Wayne Municipal Code.

Joel Hansen, Street and Planning Director, stated that Robert Woehler & Sons Construction obtained a building permit to add onto their building. They have added roof drains that drain out to the City storm sewer. They would now like to add a retaining wall that will be partially in the City's right-of-way and will require future sidewalk to go out against the street. Therefore, according to City Code, they need Council approval to first build a retaining wall structure in the City's right-of-way, and second, to force the sidewalk to be placed along the back of the street on the lot next to their building rather than the location prescribed by the Code. This is basically a request to allow Mr. Woehler to encroach into the City's right-of-way.

Mr. Hansen stated his concern is the potential for opening a Pandora's Box. If approved, how do you deny another person?

Mr. Woehler stated there are other areas in the City that encroach into the City's right-of-way.

Mr. Blecke stated his concern is that when you put things in the right-of-way, you have to work around it when there is a project.

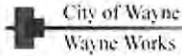
Councilmember Eischeid made a motion, which was seconded by Councilmember Karsky, approving the request to place a retaining wall, as per Option B, in the City of Wayne right-of-way pursuant to Sec. 91-078 (B) of the Wayne Municipal Code, with the understanding that Robert Woehler & Sons Construction will sign some form of an agreement that if the retaining wall needs to be removed, it will be at the property owner's expense. Mayor Giese stated the motion, and the result of roll call being all Yeas, with the exception of Councilmember Woehler who abstained, the Mayor declared the motion carried.

Joel Hansen, Street and Planning Director, reviewed the second part of the Standard Specifications for Construction of Water, Sewer, Storm Sewer and Paving book. This was a discussion item only.

Councilmember Sievers made a motion, which was seconded by Councilmember Spieker, to adjourn the meeting. Mayor Giese stated the motion, and the result of roll call being all Yeas, the Mayor declared the motion carried and the meeting adjourned at 7:02 p.m.

Council Approval Listing

Payment Date Range: 05/08/2019 - 05/15/2019



City of Wayne, NE

Vendor	Payable Description	Payment Total
AMERITAS LIFE INSURANCE	AMERITAS ROTH	84.29
AMERITAS LIFE INSURANCE	POLICE RETIREMENT	2,769.70
AMERITAS LIFE INSURANCE	POLICE RETIREMENT 457 AMOUNT	72.00
AMERITAS LIFE INSURANCE	POLICE RETIREMENT 457 PERCENTAGE	106.69
APPEARA	LINEN & MAT SERVICE	146.59
AXON ENTERPRISE, INC.	BATTERY PACK/HOLSTER	544.64
BAKER & TAYLOR BOOKS	BOOKS	746.39
BINSWANGER GLASS	AUDITORIUM SIDE DOORS	15,055.00
CARHART LUMBER COMPANY	CEILING TILES/WOOD/BITS/PAINT/ROLLERS	418.69
CHEMQUEST, INC.	QUARTERLY MONITORING	695.00
CITY EMPLOYEE	MEDICAL REIMBURSEMENT	365.92
CITY OF WAYNE	PAYROLL	74,208.93
CITY OF WAYNE	UTILITY REFUNDS	2,440.04
COPY WRITE PUBLISHING	OFFICE SUPPLIES/SHIPPING CHARGES	445.30
CUSIP SERVICE BUREAU	CUSIP MAINTENANCE	91.00
DANIELSON TECH SUPPLY	ROTARY ARM RESTRAINT KIT	110.50
DANKO EMERGENCY EQUIPMENT	ANCHOR SLING/RELEASE STRAP	186.67
DAS STATE ACCTG-CENTRAL FINANCE	WSC INTERNET CHARGES	60.15
DAVE'S DRY CLEANING	POLICE UNIFORM CLEANING	96.00
DEARBORN NATIONAL LIFE	LIFE/DISABILITY	2,512.66
DOUBLE J DOORS	DOOR REMOTES	140.80
EAKES OFFICE PLUS	COPY CHARGES	511.64
ECHO GROUP INC JESCO	EMERGENCY BATTERY BACKUP	347.84
ED M. FELD EQUIPMENT CO INC	E-SPOT UPGRADE KIT	69.10
FLOOR MAINTENANCE	JANITORIAL SUPPLIES	431.91
GILL HAULING, INC	SANITATION SERVICE	261.25
GROSSENBURG IMPLEMENT INC	TOOL BOX/ AIR CLEANER	18.45
HAUFF MID-AMERICAN SPORTS	MEDALS/RIBBONS	245.71
HAWKINS, INC	CHLORINE/PUMP/TUBE/ADAPTERS	3,509.00
HILAND DAIRY	SENIOR CENTER FOOD SERVICE	186.13
HORIZON CONSTRUCTION	BUILDING PERMIT DEPOSIT REFUND	100.00
ICMA RETIREMENT-FIRST NATL BANK -MARYLAND	PAYROLL RETIREMENT	9,940.45
INGRAM LIBRARY SERVICES	BOOKS	759.89
INTERSTATE BATTERY SYSTEM	BATTERY	117.95
IRS	FEDERAL WITHHOLDING	9,605.45
IRS	FICA WITHHOLDING	12,834.12
IRS	MEDICARE WITHHOLDING	3,001.48
JEO CONSULTING GROUP	PEDESTRIAN CROSSING CURB RAMPS/NEBRASKA ST	4,811.20
KTCH AM/FM RADIO	RADIO ADS/NOTICES	300.00
LUTT OIL	GASOLINE	4,849.49
MAAS, COURTNEY	BUILDING PERMIT DEPOSIT REFUND	100.00
MATHESON-LINWELD	OXYGEN	42.60

Vendor	Payable Description	Payment Total
MAXSON, ROSELENA	AUDITORIUM DEPOSIT REFUND	150.00
MIDWEST LABORATORIES, INC	WASTE WATER ANALYSIS	177.00
NE AIR FILTER	AIR FILTERS	47.50
NE DEPT OF REVENUE	STATE WITHHOLDING	3,926.29
NORTHEAST NE ECONOMIC DEV DIST	2020 MEMBERSHIP DUES	7,248.64
NORTHWEST ELECTRIC LLC	LIFT STATION PUMP/CAC ROOF MOTOR	904.90
NOVA FITNESS EQUIPMENT	FOOT STRAPS	23.86
OMAHA TRUCK CENTER	FREIGHTLINER DUMP TRUCK	107,775.00
O'REILLY AUTOMOTIVE STORES, INC.	MOTOR OIL	31.96
PAR MAR SECURITY SERVICES	AUDITORIUM MONITORING SERVICES	144.00
PENGUIN RANDOM HOUSE LLC	AUDIO BOOKS	97.50
PIERSANTI, JOSH	TREE REIMBURSEMENT	140.34
PLUNKETT'S PEST CONTROL	PEST CONTROL	92.12
POLLARD PUMPING	PORT A POTTIES-SOCCER FIELD	550.00
QUALITY FOOD CENTER	SENIOR CENTER NOON MEAL SUPPLIES	59.23
SKARSHAUG TESTING LAB INC	CLEAN AND TEST GLOVES	176.54
UNITED STATES PLASTIC CORP.	SPRAY BOTTLES/JUGS/CAPS	95.03
WAYNE AUTO PARTS	FILTERS/STARTER/OIL/TERMINALS	1,640.15
WAYNE COUNTY CLERK	FILING FEES	152.00
WAYNE HERALD	ADS AND NOTICES	1,809.93
WAYNE HERALD	EARTH DAY AD	105.00
WAYNE HERALD	GREEN TEAM ADS	125.00
WAYNE HERALD	CAC ADS	468.00
WESCO DISTRIBUTION INC	BOX PAD	850.65
WIGMAN COMPANY	TOILET REPAIR KIT	133.68
WISNER WEST	FD GASOLINE	81.81
ZIMCO SUPPLY	FERTILIZER	2,430.00
	Grand Total:	282,776.75



Wayne Community Schools “Learning for Life”

Wayne Jr/Sr High School
611 West Seventh Street
Wayne, NE 68787
Phone: 402-375-3150
Fax: 402-375-5251
www.wayneschools.org

Wayne Elementary School
312 Douglas Street
Wayne, NE 68787
Phone: 402-375-3854
Fax: 402-375-1702
www.wayneschools.org

Early Learning Center
Sunnyview Place Bus. Park
803 Providence Road
Wayne, NE 68787
Phone: 402-833-1450
www.wayneschools.org

Wayne County Hero

May 3, 2019

Public Works Dept City of Wayne

Nominated on behalf of the students and staff at
Wayne Community Schools

“We would like to nominate the crews that keep our city streets cleared. They spend long hours clearing the streets when there is snow and ice so that everyone can get to school each day. Our students and staff appreciate the work they do to keep our students safe, and for that reason they are definitely Wayne County Heroes!”

**CITY OF WAYNE
INTEROFFICE MEMORANDUM**

DATE: May 7, 2019
TO: Mayor Giese
Wayne City Council
FROM: Wayne Planning Commission
Joel Hansen, Staff Liaison



At their meeting held on May 6, 2019 the Wayne Planning Commission made a recommendation on the following public hearings; the result of those recommendations are as follows:

Public Hearing: Amending the Zoning Text, Specifically Section 152.080 (D) Exceptions and (M) Permitted Conditional Use of the B-1 Highway Business District; Applicant: Wayne Veterinary Clinic, 610 Thorman Street

The Planning Commission took evidence and testimony from the public and thereafter reviewed the information and evidence presented. After deliberation and discussion, motion was made by Commissioner Sorensen and seconded by Commissioner Meisenbach to approve and forward a recommendation of approval to the City Council to amend the zoning text, specifically Section 152.080 (M) Permitted Conditional Use of the B-1 Highway Business District, (3) Veterinarian, veterinarian services or animal hospitals; provided any such building, kennel or exercise runway is located at least 25 feet from any R district boundary and removing similar language from Section 152.080 (D), with the findings of fact being staff's recommendation. Chair Melena stated the motion and second. All were in favor; motion carried to approve.

Public Hearing: Preliminary Plat for Southeast Addition to the City of Wayne; Applicant: City of Wayne

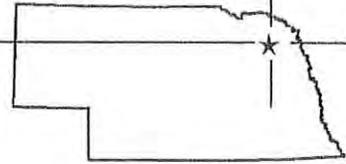
The Planning Commission took evidence and testimony from the public and thereafter reviewed the information and evidence presented. After deliberation and discussion, motion was made by Commissioner Hochstein and seconded by Commissioner Sorenson and forward a recommendation of approval to the City Council to approve the Preliminary Plat for Southeast Addition to the City of Wayne, with the findings of fact being staff's recommendation. Chair Melena stated the motion and second. All were in favor; motion carried to approve.

City of Wayne

306 Pearl • P.O. Box 8
Wayne, Nebraska 68787

(402) 375-1733
Fax (402) 375-1619

Incorporated - February 2, 1884



REQUEST FOR AMENDING ZONING TEXT

(Wayne Veterinary Clinic)

Applicant Laurimer Holdings (Mark & Lauri Zick) Date 4/18/19

B-1 Highway Business Dist.
Section of Ordinance to be Amended 152,080 (D) Exceptions

Reason for Amending Text want to build closer than 100 ft
from border of property


Applicant's Signature

Application Process:

1. An application requesting the amendment of the zoning ordinance and the reason for such amendment.
2. An application fee must be included with the request – current fee is \$200, which would cover the Planning Commission public hearing and the City Council public hearing.
3. Request for amendment of zoning language will be placed on the agenda of the Planning Commission for their next available meeting date and then a recommendation of approval or denial forwarded onto the City Council for their approval or denial of the same.

Public Hearing by: Planning Commission 5-6-2019 City Council _____

Request Approved / Denied by Planning Commission _____

Request Approved / Denied by City Council _____

Date Fee Paid: April 18, 2019 \$200



Home of Wayne State College



Equal Housing Opportunity

ORDINANCE NO. 2019-6

AN ORDINANCE TO AMEND WAYNE MUNICIPAL CODE TITLE XV LAND USAGE, CHAPTER 152 ZONING, SECTION 152.080 — B-1 HIGHWAY BUSINESS DISTRICT, SUBSECTION (D) PERMITTED CONDITIONAL USES; TO PROVIDE FOR THE REPEAL OF CONFLICTING ORDINANCES AND SECTIONS; AND TO PROVIDE FOR AN EFFECTIVE DATE.

BE IT ORDAINED by the Mayor and Council of the City of Wayne, Nebraska:

Section 1. The Planning Commission held a public hearing on May 6, 2019, regarding a request to consider amending the zoning text, specifically the B-1 Central Business District, Section 152.080 (D) Exceptions and (M) Permitted Conditional Uses, and have recommended approval thereof subject to the “Finding of Fact” being Staff’s recommendation.

Section 2. That Title XV Land Usage, Chapter 152 Zoning, Section 152.080 – B-1 Highway Business District, Subsection (D) Exceptions and Subsection (M) Permitted Conditional Uses of the Municipal Code of Wayne, are hereby amended as follows:

§ 152.080 B-1 HIGHWAY BUSINESS DISTRICT.

(A) *Intent.* The B-1 District is intended primarily for application to areas along major highway entrances to the city in accord with policies of the Comprehensive Plan where controlled access to the highway is afforded and offering a desired convenience to the motoring public.

(B) *Permitted principal uses and structures.* The following shall be permitted as uses by right in a B-1 District:

(1) Establishments which provide services or supply commodities primarily for the convenience of patrons traveling on state highways and major county road entrances to the city, including:

(a) Building material sales, and non-livestock auction rooms and monument sales;

(b) Bus depots and transit stations;

(c) Car/truck wash establishments, subject to division (E) below;

(d) Commercial recreational facilities such as golf putting courses, golf driving ranges, drive-in movie theaters subject to division (E) below, riding stables, bowling alleys and other similar recreational uses;

(e) Construction sales and services;

(f) Convenience stores, as defined in § 152.010 of this chapter;

(g) Banks and other lending agencies, detached banking facilities and automatic teller machines subject to division (E) below;

(h) Equipment and supply rental establishments;

- (i) Feed and seed establishments;
 - (j) Finance, insurance and real estate services;
 - (k) Food stores, delicatessens and supermarkets;
 - (l) Freight terminals;
 - (m) Garden centers, plant nurseries and greenhouses;
 - (n) Hotels and motels;
 - (o) Ice cream and confectionery stores;
 - (p) Mini-warehouses;
 - (q) Model home displays and mobile and modular home sales;
 - (r) Museums and art galleries;
 - (s) Orchards, including the retail sales of produce with the retail sale of food items, nursery stock, Christmas trees and gifts as accessory uses subordinate to the sale of produce;
 - (t) Public and private charitable institutions;
 - (u) Repair garages, automobile service stations and major body repair, but not including the dismantling or wrecking of vehicles or the storage of damaged or inoperable vehicles;
 - (v) Restaurants, eating establishments, cafés and food services, subject to division (E) below;
 - (w) Sales, rental and display of automobiles, trucks, large construction and earth-moving equipment and implements, campers, recreational vehicles, cycles, mobile homes, modular homes, boats and farm machinery; provided that, all servicing and maintenance shall be conducted entirely within completely enclosed buildings;
 - (x) Service stations;
 - (y) Stores or shops for the sale of goods at retail;
 - (z) Taverns and nightclubs;
 - (aa) Theaters;
 - (bb) Transportation warehousing; and
 - (cc) Wholesale sales and services.
- (2) Signs subject to § 152.142 of this chapter;
- (3) Roadside rest areas; and

(4) Video rental (general public).

(C) *Permitted accessory uses and structures.* The following accessory uses and structures shall be permitted in a B-1 District:

(1) Uses and structures incidental to the permitted uses;

(2) Storage warehouses in conjunction with permitted principal uses;

(3) Temporary buildings used in conjunction with construction; provided, such buildings are removed promptly upon completion of the construction work;

(4) Offices and other necessary uses which are incidental to, maintained on the same lot with and commonly associated with the operation of a principal use;

(5) Gift and curio shops when conducted in the same building with a restaurant, convenience store, motel or hotel; and

(6) Off-street parking and loading facilities.

(D) *Exceptions.* In accordance with §§ 152.195 through 152.202 of this chapter, the following exceptions are allowed in a B-1 District:

(1) Recreational vehicle parks and campgrounds;

(2) Private clubs and lodges;

~~(3) Veterinarian, veterinarian services or animal hospitals; provided, any such building, kennel or exercise runway is located at least 100 feet from any R district boundary;~~

(3) Truck stops, including those with complete truck services; provided that, all maintenance and services not commonly provided at fuel islands shall be conducted within entirely enclosed buildings;

(4) Public and quasi-public uses of an educational, recreational or religious type, including preschools, public and parochial elementary schools and junior high schools, high schools, private non-profit schools, churches, parsonages and other religious institutions, parks and playgrounds;

(5) Public uses of an administrative, public service or cultural type, including city, county, state or federal administrative centers and courts, libraries, police and fire stations, and other public buildings, structures and facilities;

(6) Package liquor stores;

(7) Other trade and service uses which are similar to the permitted principal uses and which are in harmony with the intent of this district;

(8) Adult media outlet, including, but not limited to, the following:

(a) Adult books, periodicals and magazines displaying or depicting sexually explicit information or photos;

(b) Sale or rental of any adult video or any pre-recorded media that exhibits or displays any sexual oriented activity or anatomical area; and

(c) Shall not include a sex-shop, or any business featuring or including live entertainment.

(9) Kennels; and

(10) Vehicle towing service.

(E) *Special conditions and conditions for granting exceptions.* Notwithstanding the requirements of §§ 152.195 through 152.202 of this chapter, the following regulations shall apply as minimum requirements for all uses in the B-1 District.

(1) Where a site adjoins or is located across an alley from any residential district, a solid wall or fence, vine-covered open fence or compact evergreen hedge six feet in height shall be located on the property line common to such districts, except in a required front yard.

(2) Open storage of materials attendant to a permitted use or conditional use shall be permitted only within an area surrounded or screened by a solid wall or fence six feet in height; provided that, no materials or equipment shall be stored to a height greater than that of the wall or fence.

(3) No use shall be permitted and no process, equipment or materials shall be used which are found by the Board of Adjustment to be objectionable to persons living or working in the vicinity by reasons of odor, fumes, dust, smoke, cinders, dirt, refuse, water-carried waste, noise, vibrations, illumination, glare or unsightliness or to involve any hazard or fire or explosion.

(4) Any proposed use which is otherwise permitted in the B-1 zone which requires, uses or proposes to construct or use a drive-up, drive-through or drive-in intended to provide customers in-vehicle access to a product or service shall be considered a use by exception. Together with the provisions of §§ 152.195 through 152.202 of this chapter, the Council shall consider whether sufficient vehicle stack or queue space is provided on site. In addition to the space at which the product or service is dispensed, at least three stack or queue spaces will be provided, as a minimum. No stack or queue is permitted to occupy public right-of-way.

(5) Adult media outlet as set forth in division (D)(9) above shall not be located nearer than 500 feet of the following:

(a) A church, synagogue, mosque, temple or any other building which is used primarily for religious purposes and activities;

(b) A public or private educational facility including, but not limited to, child day care facility, nursery school, preschool, kindergarten, private school, elementary, intermediate, junior high, middle or high schools, vocational schools, secondary schools, continuation schools, special education schools, junior colleges, community colleges, universities and shall include the school grounds of the above identified schools;

(c) Any park, children's playground area or youth sports complex including activity center;

(d) A property line of any lot devoted to a residential use;

- (e) A hospital;(f) A senior citizen center;
- (g) A public library; or
- (h) Any building owned and/or used by a political subdivision.

(6) For purposes of division (E)(5) above, 500 feet shall be measured in a straight line, along the pedestrian way, the shortest walking distance from the front or main door of the adult business to the front or main door of the use or uses identified in the above divisions (E)(5)(a) through (E)(5)(h) above.

(7) Storage of towed vehicles:

(a) Vehicles shall only be stored on-site, pending settlement or legal disposition of vehicles by insurance carrier and/or owner;

(b) All towed and stored vehicles shall be stored behind the front building line;

(c) No demolition of towed or stored vehicles shall be allowed;

(d) All stored vehicles shall be owned by persons other than the towing service owner/operator and/or land owner;

(e) All vehicles shall be stored behind a solid barrier fence of sufficient height to disallow visibility. Height of fence to be set by Planning Commission at the public hearing; and

(f) Use by exception shall only be effective upon compliance to all conditions as set forth by City Council and verified by the Zoning Administrator

(F) *Prohibited uses and structures.* All of the uses and structures which are not specifically permitted or not permissible as exceptions shall be prohibited from the B-1 district.

(G) *Minimum lot requirements.* The minimum lot area for permitted uses in the B-1 District shall be 12,000 square feet.

(H) *Minimum yard requirements.* The minimum requirements are as follows.(1) *Front yard.* There shall be a minimum front yard of not less than a depth of 100 feet from the centerline of a federal aid-primary designated street or highway or 35 feet from the property line, whichever is greater. In all other streets or highways, there shall be a minimum front yard of not less than a depth of 25 feet from the property line. These yard requirements shall apply to any yard abutting a federal aid-primary designated street or highway regardless of the lot being an interior or corner lot.

(2) *Rear yard.* No rear yard is required, except the minimum rear yard abutting an R District shall be 25 feet.

(3) *Side yard.* No side yard is required, except the minimum side yard abutting an R District shall be ten feet.

(4) *Distance between structures.* The minimum distances between a residential or other principal structure and other structure shall be ten feet.

(I) *Maximum height.* No structure in the B-1 District shall exceed 45 feet, subject to the provisions and in conformance with airport zoning regulations.

(J) *Sign regulations.* All signs in the B-1 District shall be in conformance with the regulations provided in this section and with the provisions of § 152.142 of this chapter.

(K) *Parking regulations.* Parking in the B-1 District shall be in conformance with the provisions of § 152.139 of this chapter.

(L) *Screening.* In the B-1 District, a solid or semi-solid fence or wall at least six feet, but not more than eight feet high, or a ten-foot landscape buffer consisting of trees, shrubs and evergreens, shall be provided adjacent to any adjoining residential use; however, if the adjacent residential use and the commercial development are separated by a street right-of-way, such fence, wall or landscape buffer shall not be required. All fences, walls or buffers shall be maintained by the owner of the property. The finished appearance of the fence shall face the residential use.

(M) *Permitted condition uses.*

(1) A building or premises in a B-1 District may be used for the following in conformance with the prescribed conditions.

(2) Crop production: Not including any agricultural related buildings that include but are not limited to structures used to store grain or house animals.

(3) Veterinarian, veterinarian services or animal hospitals; provided any such building, kennel or exercise runway is located at least 25 feet from any R district boundary.

Section 3. Any other ordinance or parts of ordinance in conflict herewith are repealed.

Section 4. This ordinance shall take effect and be in full force from and after its passage, approval, and publication as provided by law.

PASSED AND APPROVED this _____ day of _____, 2019.

THE CITY OF WAYNE, NEBRASKA

By _____
Mayor

ATTEST:

City Clerk

RESOLUTION NO. 2019-27

A RESOLUTION TO PROVIDE JOINT SERVICES BETWEEN THE CITY OF WAYNE AND WAYNE COUNTY.

THIS AGREEMENT is made and entered into by and between The City of Wayne, Nebraska hereinafter referred to as "City" and the Wayne County Commissioners, hereinafter referred to as "County," each being a local governmental subdivision which on its effective date are, or become, signatories hereto:

WITNESSETH THAT:

WHEREAS, it is the recognized responsibility of municipalities and counties to develop and maintain quality services and facilities to the community; and

WHEREAS, it is recognized that the provision of said basic services are sometimes best accomplished jointly because of certain cost-savings and efficiencies or certain hardships which might be experienced if undertaken singularly; and

WHEREAS, Sections 13-804 through 13-814, Reissue Revised Statutes of Nebraska, 1943, authorized the joint exercise of powers, privileges and authority by agreement of two or more public agencies of any power common to them; and

WHEREAS, the County owns certain equipment that the City does not; and

WHEREAS, the City owns certain equipment that the County does not; and

WHEREAS, these governmental entities jointly own several of the roads around the perimeter of the City; and

WHEREAS, it is the desire of the parties hereto signed to participate in the joint development of city and county land and resources.

NOW, THEREFORE, BE IT RESOLVED, that the City of Wayne and Wayne County hereto signed do agree to the following:

1. County Assistance to City: The County will provide equipment and services to the City upon request for routine maintenance and special needs on public property for small to moderate projects within the city limits and city projects outside the city limits in the Extraterritorial Jurisdiction when possible. Such assistance may be approved by any County Commissioner whose District would provide the equipment or service. Large construction projects will be bid out to private contractors upon agreement by both the City and the County.
2. City Assistance to the County: The City will provide equipment and services to the County upon request for routine maintenance and special needs on public property for small to moderate projects within the city limits and county projects outside the city limits in the Extraterritorial Jurisdiction when possible. Such assistance may be approved by the City Administrator. Large construction projects will be bid out to private contractors upon agreement by both the City and the County.

3. Joint Projects: There may be times where both parties wish to partake in joint projects such as paving of roads. Both parties agree such projects will best serve the interests of the residents and taxpayers within both entities. Those projects will be administered through separate agreements on a project by project basis.
4. Administration of the Agreement: A separate entity is not created by this agreement.
5. Agreement Duration: The term of this agreement will be effective upon execution by both parties and be in effect for ten years or until such time either party shall terminate the agreement after 120 days written notice.
6. Agreement Amendments: This agreement may be amended at any time by the written agreement of all parties.
7. Hold Harmless: The City of Wayne and Wayne County agree to indemnify and hold each other harmless from any and all liability regarding services provided in this agreement and/or to maintain liability insurance in the minimum amount of \$1,000,000, with Wayne County and the City of Wayne listed as additional named insured. Wayne County and the City of Wayne shall at all times provide each other with proof of the insurance required by this paragraph.

AND BE IT FURTHER RESOLVED, that the Commissioners of the County of Wayne do declare the County to be a participant in this joint effort to provide said services to the City.

PASSED AND APPROVED this _____ day of May, 2019.

THE COUNTY OF WAYNE, NEBRASKA

By _____
Chair

ATTEST:

County Clerk

AND BE IT FURTHER RESOLVED, that the City of Wayne does declare itself to be a participant in the joint effort to provide said services to the County.

PASSED AND APPROVED this 21st day of May, 2019.

THE CITY OF WAYNE, NEBRASKA,

By _____
Mayor

ATTEST:

City Clerk

RESOLUTION NO. 2019-28

A RESOLUTION APPROVING AGREEMENT WITH HYDRO OPTIMIZATION AND AUTOMATION SOLUTIONS FOR A WATER AND COLLECTIONS CONTROL SYSTEM FOR \$113,393.

WHEREAS, the Wayne City Council is desirous of entering into an agreement with Hydro Optimization and Automation Solutions (HOA) for a water and collections control system; and

WHEREAS, a proposal has been requested and received from HOA to provide said system for \$113,393; and

WHEREAS, staff recommendation is to accept the proposal of HOA for said system.

NOW THEREFORE, BE IT RESOLVED by the Mayor and City Council of the City of Wayne, Nebraska, that the proposal for a water and collections control system be accepted as recommended, and the Mayor be and he hereby is hereby authorized to execute the agreement for said system on behalf of the City.

PASSED AND APPROVED this 21st day of May, 2019.

THE CITY OF WAYNE, NEBRASKA,

By _____
Mayor

ATTEST:

City Clerk



Hydro Optimization and Automation Solutions

04/25/2019

Wes Blecke and Casey Junck
Water and Collections Control System Improvements
Wayne, NE
Hydro Optimization and Automations Solutions, Inc

Mr. Blecke and Mr. Junck,

Thank you for taking the time to show me around and the opportunity to provide you with a proposal for your water and collections control system. HOA Solutions, Inc., prides ourselves on our robust and easy to use control systems. As we discussed, we design our control systems to last for 15+ years. HOA Solutions, Inc., employs 12+ technicians to service our customers with any control needs possible.

For your community, we have designed a system that will be low maintenance and trouble-free. If Wayne, NE needs to expand its system, this control system is fully expandable to serve your future needs. The system is also designed to support each site remotely.

Compared to your current system, this system has multiple benefits. One great benefit is the remote access functionality. With needs that communities place on their operators it is nice for them to have remote access into their control system. This way if they are out of town or assisting other divisions of the utilities and there is an alarm they can connect to the system with their phone, web enabled tablet, or computer and they can see what the issue is before mobilizing to handle the issue. Another great benefit is if there is an issue requiring HOA Solutions, Inc., we can remote into the complete system down to the site to assist in troubleshooting. Often time this can save the community travel fees and extra trips during the life of the control system.

Below is a breakdown of the work and features we will do at each site.

Master Site (Waste Water Treatment Plant):

Equipment:

- High-Speed Spread Spectrum Ethernet Radio
 - New Antenna and Cabling

Labor:

At this site HOA Solutions, Inc. will do the following:

- Install new High-Speed Ethernet Radio in WWTP PLC Cabinet.
- Install new antenna cable, antenna surge suppression, and Omni Antenna at WWTP.
- Clean up old antennas on North Side of WWTP Admin Building.
- Modify programmable logic controller (PLC) program at WWTP to monitor and control water sites.
- Modify SCADA software to include Tower, Stand Pipe / Booster Station, Wells 7,9,10, and 11, and two lift stations.

Water Tower Site:

Equipment:

- New Back Panel
- Programmable Logic Controller
- High Speed Spread Spectrum Ethernet Radio
 - New Antenna and Cabling
- DC-UPS
 - 24VDC Power Supply
 - Battery Tender
- Batteries for backup
- Magnetic Antenna Mount for the top of the tower
- New level sensor.

Hydro Optimization and Automation Solutions

Labor:

At this site HOA Solutions, Inc. will do the following:

- Install new control back panel.
- Install new antenna cable, antenna surge suppression, and Omni Antenna at WWTP.
- Remove existing Yagi Antenna.
- Install weatherproof fitting where antenna cable exits the water tower.
- Install new pressure transducer.
- Clean up piping in the transducer enclosure.

Stand Pipe Site:

Equipment:

- High Speed Spread Spectrum Ethernet Radio
 - New Antenna and Cabling

Labor:

At this site HOA Solutions, Inc. will do the following:

- Install High Speed Radio in EFI Control Panel to right of Allen Bradley SLC5/03 PLC.
- Install new antenna cable, antenna surge suppression, and Yagi.
- Remove existing Omni Antenna.

****Note:** We will connect the current SLC 5/03 to the radio via a serial connection and poll the site with the Bristol PLC at the WWTP. This way we can have all the information that is in the PLC at the booster station instead of just a few I/O points. The SLC 5/03 will be sun setting in the next few years. We feel you can get more life out of this unit, so we did not include the upgrade at this time, but it can be upgrade under this contract as well if you desire.

Wells 7, 9, 10, and 11:

Equipment:

- New Enclosure and Back Panel
- Programmable Logic Controller
- High Speed Spread Spectrum Ethernet Radio
 - New Antenna and Cabling
- DC-UPS
 - 24VDC Power Supply
 - Battery Tender
- Batteries for backup
- Modbus TCP/IP Cards for VFD(s)

Labor:

At these sites HOA Solutions, Inc. will do the following:

- Remove existing control enclosure and antenna cabling.
- Install new Enclosure and Back Panel.
- Install required conduits and wires to bring in existing signals.
- Install new antenna cable, antenna surge suppression, and Yagi antenna.
- Remove existing Omni Antenna.

****Notes:**

1. We will tie into existing sensors at the sites.
2. HOA Solutions, Inc. will not add any new Well Level Sensor, Well House Temperature Sensors, Discharge Flow Sensor, or Discharge Pressure Sensor. These sensors are available at extra cost to this proposal.
3. VFD Communications cards will allow remote support to the VFDs. If there is a fault, we will be able to troubleshoot the device by gathering the error code coming from the VFD.
4. The wells will be operated in two modes: Tower and Pressure.
 - A. In Tower Mode the well will start and stop from level set points and an alternation algorithm.
 - B. In Pressure mode the well will start and stop and maintain a system pressure from set points from the master. This will require a discharge pressure transducer at the site. ******

Hydro Optimization and Automation Solutions

Lift Station 1:

Equipment:

- New Enclosure and Back Panel
- Programmable Logic Controller
- High Speed Spread Spectrum Ethernet Radio
 - New Antenna and Cabling
- DC-UPS
 - 24VDC Power Supply
 - Battery Tender
- Batteries for backup
- Submersible Pressure Transducer
- Float Back-up for Triplex Lift Station
- 8 Port Ethernet Switch
- Three (3) Modbus TCP/IP Cards for Square D VFDs

Labor:

At this site HOA Solutions, Inc. will do the following:

- Install new Enclosure and Back Panel in building next to VFD panel.
- Install required conduits and wires to bring in existing signals.
- Install required conduits and wires to monitor and control variable frequency drives.
- Install new antenna cable, antenna surge suppression, and Yagi antenna.

****Notes:** Except for the sensors called out, we will tie into existing sensors at the sites. HOA Solutions, Inc. will not add any new sensors. Any other sensors are available at extra cost to this proposal. ******

Lift Station 4 & 6

Equipment:

- New Enclosure and Back Panel
- Service Entrance Rated Disconnect
 - Interlock included for Transfer switch operation at LS6
- Motor Circuit Breakers
- NEMA Motor Starters with Electronic Overloads
- Intrinsically Safe Relay for float control.
- Five (5) Floats
- Programmable Logic Controller
- High Speed Spread Spectrum Ethernet Radio
 - New Antenna and Cabling
- DC-UPS
 - 24VDC Power Supply
 - Battery Tender
- Batteries for backup

Labor:

At this site HOA Solutions, Inc. will do the following:

- Demolition of existing lift station panel(s).
- Installation of new lift station panel(s).
- Install new antenna cable, antenna surge suppression, and Yagi antenna.

****Notes:** We will tie into existing sensors at the sites. HOA Solutions, Inc. will not add any new Well Level Sensor, Well House Temperature Sensors, Discharge Flow Sensor, or Discharge Pressure Sensor. These sensors are available at extra cost to this proposal. ******

Lift Station 3&7:

Equipment:

- New Enclosure and Back Panel
- Programmable Logic Controller

Hydro Optimization and Automation Solutions

- High Speed Spread Spectrum Ethernet Radio
 - New Antenna and Cabling
- DC-UPS
 - 24VDC Power Supply
 - Battery Tender
- Batteries for backup

Labor:

At this site HOA Solutions, Inc. will do the following:

- Remove existing I/O Radio, power supply, antenna cabling and Yagi Antenna.
- Install new Enclosure and Back Panel on back side of strut stand.
- Install required conduits and wires to bring in existing signals.
- Install new antenna cable, antenna surge suppression, and Yagi antenna.

****Notes:** We will tie into existing sensors at the sites. HOA Solutions, Inc. will not add any new Well Level Sensor, Well House Temperature Sensors, Discharge Flow Sensor, or Discharge Pressure Sensor. These sensors are available at extra cost to this proposal. ******

All Sites:

- Installation
- Startup
- Training
- Travel
- 1 Year warranty on equipment HOA Solutions Inc., provides.

Price for the above proposal:\$113,398.00

Applicable Taxes are not included in the proposed price.

Tight budgets have required municipalities to stretch their dollars further which often means putting off upgrades of critical equipment and systems. This often results in down time and/or emergency purchases that end up costing much more in the long run. Knowing how important it is to have a reliable control system to provide quality water that is important to the community has driven us to provide a leasing option.

Time and again we hear a low-quality system is put in due to a lower cost. The customer is nickel and dimed and unsatisfied with what they were provided. When they are almost done paying off the system they are lead to upgrade it again due to using "cheap" equipment.

While a system is in our lease, we take care of maintenance and service calls. What we cover is negotiable and we can discuss it. The maintenance coverage basically results in an extended warranty on equipment supplied under this contact for the life of the lease.

Our options for leases are five (5) years, seven (7) years, and ten (10) years. If you chose to do a lease on this proposal, these would be the approximate payments without putting any money down.

- (5) Five Years: \$2,538 / Month
- (7) Seven Years: \$1,876 / Month
- (10) Ten Years: \$1,625 / Month

If the Community of Wayne would be interested in putting down some money to cover installation, the monthly lease price would go down. This would allow the community to avoid paying tax on the installation of the system. A larger down payment would be acceptable if desired. Let me know what you're thinking to refigure monthly payment.

As a reminder, our lease will include all service calls and maintenance, on the equipment we provide. If the Community of Wayne would like to exclude any of those items, we can work with you and your board to provide a package that suits everyone.

Hydro Optimization and Automation Solutions

Again, thank you for your operator's time in meeting with me and thank you for the opportunity to provide you and your community with a proposal to upgrade your current water control system.

If you have any questions or concerns, please do not hesitate to contact me.

Thank you,

Randy Shotkoski

Randy Shotkoski
HOA Solutions, Inc.

Please Sign Below:

Signature

Date

Print Name

\$ _____

Approved Total

Terms:

Substantial Completion refers to a stage of a construction or building project or a designated portion of the project that is sufficiently complete, in accordance with the construction contract documents, so that the owner may use or occupy the building project or designated portion thereof for the intended purpose. At this point of the project HOA Solutions and subcontractor will have all equipment installed and operating. At this point of the project HOA Solutions, Inc. will invoice out 90% of the project.

Completion refers to a stage of a project where all documentation such as operations and maintenance materials and as built drawings have been delivered to the end user. The completion date is also when the 1-year system warranty starts from HOA Solutions, Inc. At this point of the project HOA Solutions, Inc. will invoice out 10% of the project.

ORDINANCE NO. 2019-4

AN ORDINANCE TO AMEND WAYNE MUNICIPAL CODE, TITLE VII TRAFFIC CODE, CHAPTER 70 GENERAL PROVISIONS – PROHIBITIONS AND ENFORCEMENT, SECTION 78-132 PROHIBITED PARKING; SOUTHWEST QUADRANT OF THE CITY; TO PROVIDE FOR THE REPEAL OF CONFLICTING ORDINANCES OR SECTIONS; AND TO PROVIDE FOR AN EFFECTIVE DATE.

BE IT ORDAINED by the Mayor and Council of the City of Wayne, Nebraska:

Section 1. That Title VII Traffic Code, Chapter 70 General Provisions – Prohibitions and Enforcement, Section 78-132 of the Municipal Code of Wayne, Nebraska, is hereby amended to read as follows:

§ 78-132 PROHIBITED PARKING; SOUTHWEST QUADRANT OF THE CITY.

(A) No person shall, at any time, park a vehicle upon the following described streets or parts of streets:

The east side of the centerline of Wilcliff Drive from the north line of West 1 st Street north to the south line of West 3 rd Street
The east side of the centerline of Donner Pass from the south line of West 7 th Street south to the south line end of Donner Pass
The east side of the centerline of Pearl Street from the north line of West 5 th Street north to the south line of West 7 th Street
The east side of the centerline of Lincoln Street from the south line of West 7 th Street south to the city limits
The east side of the centerline of Douglas Street from the south line of West 7 th Street south to the city limits
The east side of the centerline of Sherman Street from the south line of West 7 th Street south to the north line of West 4 th Street and from the south line of West 3 rd Street south to the north line of Grainland Road city limits
The east side of the centerline of Blaine Street from the north line of Grainland Road north to the south line of West 3 rd Street
The east side of the centerline of Maple Street from the north line of Grainland Road north to the south line of 2 nd Avenue
The east side of the centerline of Oak Drive from the north line of 2 nd Avenue north to the south line of West 7 th Street
The north side of the centerline of Second Avenue from the west line of Maple Street west to the east line of Birch Street

The north side of the centerline of West 6 th Street from the west line of Main Street west to the east line of the north-south alley between Main Street and Pearl Street
The south side of the centerline of Grainland Road from the west line of Sherman Street west to the city limits
The south side of the centerline of 1 st Avenue from the west line of Maple Street west to the east line of Birch Street
The south side of the centerline of West 7 th Street from the west line of Main Street west to the city limits
The south side of the centerline of West 1 st Street from the north-south alley between Pearl Street and Lincoln Street west to the east line of Wilcliff Drive
The south side of the centerline of West 2 nd Street from the north-south alley between Pearl Street and Lincoln Street west to the east line of Blaine Street
The south side of the centerline of West 3 rd Street from the north-south alley between Pearl Street and Lincoln Street west to the east line of Oak Drive
The south side of the centerline of West 4 th Street from the west line of Pearl Street west to the east line of the elementary school
The south side of the centerline of West 5 th Street from the west line of Pearl Street west to the east line of Schoolview Drive
The south side of the centerline of West 6 th Street from the north-south alley between Main Street and Pearl Street west to the east line of Sherman Street
The south side of the centerline of Clark Street from the west line of Main Street west to the east line of Pearl Street
The south side of the centerline of 3 rd Avenue from the west line of Oak Drive west to the city limits
The west side of the centerline of Pearl Street from the north line of 6 th Street north to the south line of West 7 th Street
The west side of the centerline of Birch Street from the north line of 1 st Avenue north to the south line of 2 nd Avenue
The west side of the centerline of Sherman Street from the south line of West 4 th Street south to the north line of West 3 rd Street
The west side of the centerline of Main Street from the north line of West 6 th Street north to the south line of 7 th Street
The west side of the centerline of Lincoln Street from the north line of West 1 st Street north 50 feet

(B) Appropriate signs shall be placed to advise the public of these prohibited parking regulations.

(2002 Code, § 78-132) (Ord. 2001-22, passed 12-18-2001; Ord. 2004-1, passed 3-9-2004; Ord. 2004-20, passed 1-11-2005; Ord. 2011-9, passed 8-16-2011; Ord. 2014-2, passed 3-4-2014; Ord. 2015-35, passed 7-7-2015)

Section 2. Any and all provisions of the Wayne Municipal Code in conflict with this Ordinance are hereby repealed.

Section 3. This ordinance shall take effect and be in full force from and after its passage, approval and publication according to law.

PASSED AND APPROVED this 21st day of May, 2019.

THE CITY OF WAYNE, NEBRASKA,

By _____
Mayor

ATTEST:

City Clerk

ORDINANCE NO. 2019-5

AN ORDINANCE TO AMEND WAYNE MUNICIPAL CODE, TITLE VII TRAFFIC CODE, CHAPTER 70 GENERAL PROVISIONS – PROHIBITIONS AND ENFORCEMENT, SECTION 78-133 RESTRICTED PARKING 12:00 MIDNIGHT TO 5:00 A.M.; SOUTHWEST QUADRANT OF THE CITY; TO PROVIDE FOR THE REPEAL OF CONFLICTING ORDINANCES OR SECTIONS; AND TO PROVIDE FOR AN EFFECTIVE DATE.

BE IT ORDAINED by the Mayor and Council of the City of Wayne, Nebraska:

Section I. That Title VII Traffic Code, Chapter 70 General Provisions – Prohibitions and Enforcement, Section 78-133 of the Municipal Code of Wayne, Nebraska, is hereby amended to read as follows:

§ 78-133 RESTRICTED PARKING 12:00 MIDNIGHT TO 5:00 A.M.; SOUTHWEST QUADRANT OF THE CITY.

(A) No person shall, at any time, park a vehicle between the hours of 12:00 midnight and 5:00 a.m. upon any of the following described streets or parts of streets:

The east side of the centerline of Sherman Street from the south line of West 4 th Street south to the north line of West 3 rd Street
The north side of the centerline of West 3 rd Street from the north-south alley between Pearl Street and Lincoln Street west to the east line of Oak Drive
The north side of the centerline of West 5 th Street from the west line of Main Street west to the east line of the elementary school
The north side of the centerline of West 2 nd Street from the west line of Pearl Street to the east line of Blaine Street
The north side of the centerline of West 6 th Street from the north-south alley between Main Street and Pearl Street west to the east line of Sherman Street
The north side of the centerline of Grainland Road from the west line of Sherman Street west to the city limits
The north side of the centerline of 3 rd Avenue from the west line of Oak Drive west to the city limits
The north side of the centerline of West 4 th Street from the west line of Main Street west to the east line of the elementary school
The west side of the centerline of Blaine Street from the south line of West 2 nd Street south to the north line of Grainland Road
The west side of the centerline of Sherman Street from the south line of West 7 th Street south to the north line West 4 th Street and from the south line of West 3 rd Street south to the north line of Grainland Road city limits
The west side of the centerline of Douglas Street from the south line of West 7 th Street south to the city limits

The north side of the centerline of Clark Street from the west line of South Main Street west to the east line of South Pearl Street

(B) Appropriate signs shall be placed to advise the public of these prohibited parking regulations. (2002 Code, § 78-133) (Ord. 2011-10, passed 8-16-2011) (Ord. 2017-24, passed 8-15-17)

Section 2. Any and all provisions of the Wayne Municipal Code in conflict with this Ordinance are hereby repealed.

Section 3. This ordinance shall take effect and be in full force from and after its passage, approval and publication according to law.

PASSED AND APPROVED this 21st day of May, 2019.

THE CITY OF WAYNE, NEBRASKA,

By _____ Mayor

ATTEST:

City Clerk

3. Place concrete block under auxiliary valve to provide firm support.
4. Pour concrete thrust block at hydrant shoe as shown on the drawings, or install a metal harness tie-down per Article 18.
 - i) Place concrete block, similar to that shown for valves, under hydrant to provide firm support if a tie-down system is used in lieu of the thrust block.

G. Adjustments:

1. Check and adjust hydrants and accessories for smooth operation.

ARTICLE 23: TESTING OF SEWER MAINS

A. General:

1. Contractor shall perform all tests required for the type of sewer installed. Required tests are indicated in the respective specification sections for the type of material to be installed.
2. Contractor shall furnish all required test equipment and conduct tests.
3. Testing will be observed by the City Engineer. Contractor shall notify City Engineer 48 hours in advance of conducting tests.
4. Corrective work required shall be performed at the Contractor's expense.
5. Contractor shall perform tests until satisfactory results are obtained.

B. Materials:

1. Contractor shall furnish all materials required to conduct tests.

C. Pressure and Leakage Testing for Sewer Force Mains:

1. Pressure Test:

- i) Test pressure shall be 120 psig at the lowest portion of the line under test.
- ii) Partially backfill valved section of line to be tested such that backfill will hold line in place under test pressure.

- iii) Provide at least five (5) days of setting time for concrete thrust blocking on each segment of main prior to the pressure test on that segment. If high-early strength cement is used in the thrust blocking, provide at least two (2) days of setting time prior to the pressure test.
- iv) Provide temporary thrust blocking for each segment of main to be pressure tested, if required to insure that the line will not move under pressure and that no "blow-offs" will occur.
- v) Vent all air from line prior to testing through air-released hydrants or corporation cocks, installed for this purpose if necessary, at all high points in the line.
- vi) Fill line with water and pump to test pressure.
- vii) Maintain test pressure for at least two (2) hours during each pressure test. A drop in gauge pressure in excess of 5 psi will cause the pressure test to fail.
- viii) Carefully examine all exposed pipe, fittings, valves, air released hydrants, and joints during the pressure test.
- ix) Remove and replace any cracked or defective pipe, fittings, valves or air-released hydrants discovered.
- x) Repeat pressure tests until requirements of this Section are met.

2. Leakage Test:

- i) Conduct leakage test concurrently with the pressure test.
- ii) Test pressure shall be 120 psig at the lowest portion of the line under test.
- iii) Vent all air from line prior to testing.
- iv) Fill line with water and pump to test pressure.
- v) Maintain test pressure for 2 hours.
- vi) Maximum allowable leakage determined by:

$$L = \frac{ND(P)}{7400} \frac{1}{2}$$

7400

Where L = allowable leakage, gallons per hour;
N = the number of joints in the pipe being tested;
D = nominal diameter of pipe, inches; and
P = test pressure, psig.

- vii) Locate and repair leaks and retest until requirements of this Section are met.

D. Leakage Testing for Gravity Sanitary Sewer:

1. Maximum infiltration or exfiltration in any section of sanitary sewer, including manholes, shall not exceed 200 gallons per inch of pipe diameter per day per mile of sewer.
2. Infiltration Test:
 - i) Infiltration test shall be performed if the ground water level is at least two feet above the top of the pipe at the highest point in the section being tested.
 - ii) Test head shall be maintained at least 24 hours prior to measuring infiltration.
 - iii) Infiltration shall be measured using a V-notch weir or other flow-measuring device approved by the City Engineer in the downstream manhole of the section being tested.
3. Exfiltration Test:
 - i) Exfiltration test shall be performed if the ground water level is less than two feet above the top of the pipe.
 - ii) Plug the inlet of the upstream and downstream manholes using watertight plugs.
 - iii) Sewer and upstream manhole shall be filled with water to an elevation two feet above the top of the pipe being tested, or two feet above the existing ground water level, whichever is greater.
 - iv) Measure exfiltration for a period of one hour starting one hour after filling.
4. Locate and repair leaks and re-test until requirements of this Section are met.

E. Low Pressure Air Test For Gravity Sanitary Sewers:

1. Air test may be used in lieu of infiltration/exfiltration test.
2. Conduct in accordance with ASTM C828.
3. Plug the ends of the section to be tested with air-tight plugs. Brace plugs to prevent slippage due to internal pressure. One plug must have provisions for connecting an air hose.
4. Connect air hose to plug and to portable air control equipment consisting of valves and pressure gauges to control the rate of air flow into the test section and monitor air pressure inside the pipe.
5. Supply air to test section such that internal pressure in the pipe section does not exceed 5 psig. When pressure reaches 4.0 psig, throttle air supply to maintain internal pressure between 3.5 and 4.0 psig for minimum of 2 minutes.
6. Disconnect air supply and allow pressure to drop to 3.5 psig. At 3.5 psig start a stop watch and determine the time required for the pressure to drop to 2.5 psig.
7. Minimum allowable time for pressure drop to occur shall be as follows:

<u>Pipe Size</u>	<u>Time</u>
6"	2 min. 50 sec.
8"	3 min. 47 sec.
10"	4 min. 43 sec.
12"	5 min. 40 sec.
15"	7 min. 5 sec.
18"	8 min. 30 sec.
21"	9 min. 50 sec.
24"	11 min. 20 sec.

8. Maximum allowable length of sewer line that can be tested by air test shall be as follows.

<u>Pipe Size</u>	<u>Length</u>
4"	1114.0 Ft.
6"	742.7 Ft.
8"	557.0 Ft.
10"	445.6 Ft.
12"	371.3 Ft.
15"	297.0 Ft.

18"	247.5 Ft.
21"	212.2 Ft.
24"	185.0 Ft.

9. Locate and repair leaks and re-test until requirements of this Section are met.

F. Manhole Exfiltration Test:

1. Plug inlet and outlet of manhole with watertight plugs.
2. Fill manhole with water to an elevation two feet above the top of the pipe being tested, or two feet above the existing ground water level, whichever is greater.
3. Allow water to stand one hour and refill to original elevation before measuring exfiltration.
4. Measure exfiltration from manhole over a one hour period.
5. Locate and repair leaks and re-test.

G. Alignment Test:

1. Completed sewers shall be checked for alignment using either a laser beam or lamping.
2. Completed sewers that do not show sufficient artificial light from manhole to manhole shall be corrected by the Contractor.

H. Deflection Test:

1. Conduct deflection test on sanitary sewers constructed of plastic pipe (PVC).
2. Conduct deflection test after final backfill has been in place at least 30 days.
3. Maximum deflection shall not exceed 5 percent of the inside diameter of the pipe being tested.
4. Conduct deflection test using Go No Go deflection testing gauge or mandrel with dimensions as shown in the Standard Drawings. Outside diameter of mandrel shall not be less than 95 percent of the specified inside diameter of the pipe being tested.
5. Thoroughly flush line prior to testing to remove mud and debris.

6. Float pull rope from upstream manhole to downstream manhole of section being tested and attach mandrel to pull rope. Attach a second rope to back of mandrel to receive mandrel if blockage is encountered.
7. Mark pull rope so that if blockage is encountered, the location of blockage can be determined.
8. Pull mandrel through the sewer line. Mechanical pulling devices shall not be used.
9. If resistance to pulling or blockage is encountered, remove mandrel and re-flush or clean sewer line, if necessary.
10. If blockage remains, locate and determine cause of blockage and make necessary repairs. Repeat test until requirements of this Section are met.

ARTICLE 24: TESTING AND DISINFECTION OF WATER MAINS

A. General:

1. Contractor shall test and disinfect all water mains installed as specified herein.
2. Contractor shall furnish all required test equipment, chemicals and other materials required to test and disinfect the water mains. Contractor shall perform all testing and disinfection.
3. Testing will be observed by the City Engineer. Contractor shall notify City Engineer 48 hours in advance of conducting tests.
4. Corrective work required shall be performed at the Contractor's expense.
5. Contractor shall perform testing and disinfection until satisfactory results are obtained.

B. Materials:

1. Contractor shall furnish all materials required to conduct testing and disinfection.

C. Hydrostatic Testing for Water Mains:

1. Pressure Test:
 - i) Conduct in accordance with AWWA C600.

- ii) Test pressure shall be 120 psig at the lowest portion of the line under test.
- iii) Partially backfill valved section of line to be tested such that backfill will hold line in place under test pressure.
- iv) Provide at least five (5) days of setting time for concrete thrust blocking on each segment of main prior to the pressure test on that segment. If high-early-strength cement is used in the thrust blocking, provide at least two (2) days of setting time prior to the pressure test.
- v) Provide temporary thrust blocking for each segment of main to be pressure tested, if required to insure that the line will not move under pressure and that no "blow-offs" will occur.
- vi) Vent all air from line prior to testing through air-release hydrants or corporation cocks, installed for this purpose if necessary, at all high points in the line.
- vii) Fill line with water and pump to test pressure.
- viii) Maintain test pressure for at least two (2) hours during each pressure test. A drop in gauge pressure in excess of 5 psi will cause the pressure test to fail.
- ix) Carefully examine all exposed pipe, fittings, valves, hydrants, and joints during the pressure test.
- x) Remove and replace any cracked or defective pipe, fittings, valves or hydrants discovered.
- xi) Repeat pressure tests until requirements of this Section are met.

2. Leakage Test

- i) Conduct leakage test concurrently with the pressure test.
- ii) Test pressure shall be 120 psig at the lowest portion of the line under test.
- iii) Vent all air from line prior to testing.
- iv) Fill line with water and pump to test pressure.
- v) Maintain test pressure for 2 hours.

vi) Maximum allowable leakage determined by:

$$L = \frac{ND (P)^{1/2}}{7400}$$

Where L = allowable leakage, gallons per hour;
N = the number of joints in the pipe being tested
D = nominal diameter of pipe, inches; and
P = test pressure; psig

vii) When testing against closed metal-seated valves, an additional leakage per closed valve of 0.0078 gallons per hour per inch of nominal valve size shall be allowed.

viii) Locate and repair leaks and retest until requirements of this Section are met.

D. Water Main Disinfection:

1. Pipe interior, fittings and valves shall be protected against contamination during delivery, storage and installation.
2. New lines shall be flushed thoroughly prior to disinfection until all traces of construction materials and soil or other foreign matter have been removed. Flushing shall be at a velocity of not less than 4.0 ft/sec. Flushing time shall be adequate to replace the volume of water in the line a minimum of 4 times. The City reserves the right to determine when the Contractor has exceeded a reasonable amount of flushing and to require other action to properly clean the section of pipe as necessary.
3. Disinfect water lines as follows.
 - i) Rate of hypochlorite application should be adequate to maintain a minimum of 50 parts per million available chlorine.
 - ii) Chlorinated water shall be retained in the main for at least 24 hours. Minimum residual chlorine concentration in any part of the system after 24 hours shall be 25 parts per million, and the minimum free residual chlorine concentration shall be 10 parts per million.
 - iii) Thoroughly flush all lines containing the heavily chlorinated water until a chlorine residual determination shows the residual chlorine at any point is not over 2 parts per million.
4. After final flushing, and before the water main is placed in service, samples shall be collected from the end of the line and tested for bacteriologic quality.

Flushing and chlorination shall continue until two samples, free of chlorine and taken at least 24 hours apart, show the absence of coliform organisms. Sampling and testing shall be in accordance with State of Nebraska Department of Health regulations.

5. If the initial disinfection fails to produce satisfactory samples, disinfection shall be repeated until satisfactory samples have been obtained.

ARTICLE 25: REINFORCED CONCRETE PIPE

A. Quality Assurance:

1. Provide manufacturer's certificate that materials meet or exceed minimum requirements as specified.

B. Submittals:

1. Manufacturer's certificates of conformance.

C. Product Delivery, Storage, and Handling:

1. During loading, transporting and unloading, exercise care to prevent damage to materials.
2. Do not drop pipe or fittings.

D. Reinforced Concrete Pipe:

1. Standard reinforced concrete sewer pipe, conforming to Nebraska Highway Specification Section 1029.

E. Flared End Sections:

1. Same material as pipe. If guards are required, they shall be in accordance with the Nebraska Highway Specifications.

F. Workmanship:

1. Each pipe will be carefully inspected before it is laid and defective pipe will be rejected.
2. The pipe shall be laid upgrade beginning at the lower end of the line and shall be laid true to the grades shown on the plans. Any pipe which has its grade disturbed after laying shall be taken up and re-laid. No pipe shall be laid, when in the opinion of the City Engineer, weather or trench conditions will not permit a satisfactory installation.

3. Laying of pipe to true line and grade shall be accomplished by use of an overhead grade line, plumb bob, and grade boards and/or by the laser beam method. The overhead grade line shall be stretched tight at all times and be parallel to the correct alignment and grade of the sewer.
4. The groove on concrete pipe shall be laid upstream.
5. Reinforced concrete pipe joints may be made by:
 - i) Thoroughly filling the joint, inside and outside, around the circumference of the pipe, with cement mortar. The mortar to be used shall consist of two parts of cement to three parts of mortar sand to one part of Embecco, or
 - ii) Thoroughly filling the joint, inside and outside, around the circumference of the pipe, with "Kalktite", "Sewertite", or approved equal.

ARTICLE 26: PAVING EARTHWORK

REMOVAL, ADJUSTMENT, AND REPLACEMENT ITEMS:

A. Walks and Driveways:

1. Existing sidewalk pavement and driveway pavement shall be removed as indicated on the plans or directed by the City Engineer.
2. The juncture between the existing pavement to remain and that to be removed shall be made by sawing and carefully removing the portion required in such a manner that the remaining pavement will not be damaged. Removal shall be to existing contraction joints and perpendicular and parallel to existing curb lines where practical.
3. Replacement shall be from the approved line of removal to the back of curb line.

B. Street Pavement:

1. Street pavement which is to be removed shall be done as shown on the plans or directed by the City Engineer.
2. The juncture between the existing pavement or the surfacing to remain and that to be removed shall be made by sawing and carefully removing the portion required in such a manner that the remaining pavement will not be

damaged. Entire panels will be removed unless otherwise directed by the City.

3. Replacement shall be as shown on the plans or directed by the City Engineer.

D. Tree Removal:

1. Trees which are indicated on the plans to be removed and where directed by the City Engineer shall be cleared and grubbed. Stumps shall be completely removed within areas to be paved and removed to at least one foot below finished grade in areas not to be paved.

E. Manhole, Valve Box and Inlet Adjustments:

1. The Contractor shall adjust existing manholes, valve boxes, and inlets to finished grades. This may be accomplished by regulating the height of the masonry walls or use of metal adjusting rings or both in the case of manholes and inlets, and by inserting valve box adapters into the sockets of the existing valve boxes.
2. A box-out with keyway and bars will be required around all existing manholes and valve boxes. The box-out shall be square, the edges of which shall be a minimum of one foot from the outer-most limit of the casting of valve box.
3. A smooth neat matching of the casting and adjacent street surface is required.
4. All necessary materials shall be furnished by the Contractor unless indicated otherwise by the specifications.
5. Any backfill disturbed during adjustment shall be thoroughly tamped to achieve as a minimum the soil densities specified herein for new pavement construction.

F. Existing Culvert, Pipe and Drainage Appurtenances:

1. Existing culverts, pipes and miscellaneous drainage appurtenances shall be removed as indicated on the plans or directed by the City Engineer.

G. Removal of Existing Concrete Headers:

1. Existing concrete headers which are indicated on the plans to be removed and where directed by the City Engineer shall be completely removed within the street area from face to face of gutters.

- H. Materials removed in paragraph A. to G. above, shall be loaded, hauled, and disposed of by the Contractor in locations designated by the City. Culverts, piping and appurtenances shall be salvaged and remain the property of the City, unless indicated otherwise by the specifications.
- I. Replacement of material removed shall be as follows:
1. Thickness of replacement concrete shall be a minimum of 4 inches for walks and 6 inches of concrete driveways.
 2. Concrete for replacement shall be of the quality specified in Article 13.
 3. After placement, screeding, and compaction, the surface shall be given a light brush finish and cured.
 4. Walks, at their line of juncture with walls, curbs, driveways or other pavement, shall be provided with a $\frac{3}{4}$ inch thick preformed asphalt saturated expansion board.

STREET AND TERRACE EXCAVATION, EMBANKMENT AND GRADING:

A. General:

1. The Contractor shall perform all excavation, embankment and grading required for the pavement and terraces.
2. Streets shall be graded to the cross section with crown as shown on the drawings.
3. All suitable excavated materials shall be used on the street proper to the extent necessary to raise the sub-grade to the required elevation and to grade terraces.
4. Terraces shall be graded, from the back of curb line to the sidewalk line and/or street property lines, as shown on the typical section or as otherwise directed by the City Engineer.
5. Excavated material not needed for use in the streets or terraces shall be disposed of by the Contractor in locations designated by the City.

B. Unstable Soils:

1. If unstable soils are encountered, they shall be removed and replaced with suitable material.

2. The size and depth of undercut and material to be used for backfill shall be approved by the City Engineer.
3. Unstable sub-grade resulting from the Contractor's negligence in providing proper drainage protection for the work shall be repaired by the Contractor.

C. Street Embankment:

1. The embankment shall be free from all rocks, wood, and other foreign material.
2. Each layer of embankment material shall be compacted to a minimum of 95 percent of Standard Proctor Density as determined by ASTM D698.
3. Any area not accessible to large equipment shall be compacted by hand or smaller equipment.
4. Suitable excavation from the streets shall be used as embankment material from another source.

D. Terrace Embankment and Grading:

1. Upon completion of the paving work, the Contractor shall excavate or fill in order to grade the terraces in accordance with the typical cross section shown on the drawings or as directed by the City Engineer.
2. The size and type of equipment utilized on this portion of the work shall be commensurate with the work to be accomplished.
3. Care shall be taken in working around existing utilities, trees, shrubs, and private sidewalks so that damage to same will not be done.
4. A sufficient quantity of native topsoil, free from gravel and other foreign material and suitable for growing grass, shall be retained from the general excavation so the all terraces will have a surface at least 6 inches thick of this material. Material below the top 6 inches shall be similar to the soil which is natural to the immediate area.
5. The final surface shall be one equal to a light harrowing followed by hand raking so that the terraces will be suitable for seeding.

COMPACTION:

A. General:

1. The following procedure shall apply in the compaction process to the point of finished sub-grade under the pavement:
 - i) Remove all sod, roots, and vegetation from the area in which the embankment is required and from the embankment material.
 - ii) In areas of excavation, scarify material to a depth of 6 inches, windrow, spread and compact to a minimum of 95 percent of Standard Proctor Density.
 - iii) The embankment shall be built of suitable material in successive horizontal layers not exceeding 6 inches in compacted thickness.
 - iv) Each 6 inch embankment layer shall be compacted to a minimum of 95 percent of Standard Proctor Density.
 - v) Add water or air dry material as required for adequate compaction. The moisture content of the material shall not be more than 2 percent below, nor more than 4 percent above the optimum moisture content.

B. Sub-grade Protection:

1. After the rough grading work has been completed, the entire graded areas shall be smoothed and shaped to produce the proper finished grade.
2. The Contractor shall be responsible for maintaining the finished sub-grade under the pavement in top condition until subsequent operations are performed.

ARTICLE 27: PAVEMENT REPAIR AND RESURFACING

A. General:

1. The old pavement shall be removed to the limits shown on the plans or as designated by the City Engineer.
2. Connecting edges shall be cut and chipped to true lines with vertical faces.
3. The existing sub-grade shall be prepared to a uniform condition of compaction in accordance with Article 10.
4. For asphalt concrete repair, a tack coat shall be applied to the vertical edge of the existing pavement prior to placing the asphaltic concrete.

5. For asphalt concrete repair, asphaltic mix shall be placed in lifts with a maximum compacted thickness per lift of 4 inches for base course material and 2 inches for surface course material.

B. Paving Brick Repair:

1. Existing brick shall be salvaged as much as practicable and reused in repair. All broke, cracked or otherwise unacceptable bricks shall be removed from the area of replacement.
2. Existing concrete base course and sub-grade shall be removed to a depth of 7 inches below the bottom of the brick.
3. Sub-grade shall be prepared for base course of Portland cement concrete.
4. Base course shall consist of 6 inches of Portland cement concrete pavement. Concrete need only be screeded as no finish is required.
5. A leveling course of clean fine sand shall be placed on the concrete base to a depth of 3/4 inch to 1 inch.
6. Paving bricks shall be placed tightly together and leveled by embedding in sand.
7. After placement of brick and sealing of joints, the area will be swept with clean dry sand to fill all voids to top of bricks.
8. Expansion joint material will be placed where concrete base abuts Portland cement concrete pavement or curb.

C. Resurfacing:

1. Preparation.
 - i) The surface to be covered shall be cleaned of all dirt, foreign material, asphalt crack filler or joint sealing material and cold-mix bituminous patches.
 - ii) A tack coat shall be applied.
2. Leveling Course and Patching.
 - i) The leveling course, if required by the specifications, shall consist of surface mix asphalt concrete.

- ii) All holes more than 2 inches deep in the surface to be covered shall be coated with hot asphalt cement and filled level with compacted surface mix.
3. Surface Course.
- i) Compacted thickness of surface course shall be 1-1/2 inches minimum, or greater thickness as otherwise required by the specifications.

ARTICLE 28: SIDEWALKS

A. Procedure:

1. Sidewalks shall be Portland cement concrete, 4 inches thick except through driveways, which shall be 6 inches thick.
2. Contraction joints shall be marked off into square blocks having an area of 16 square feet for 4 foot wide walks and 36 square feet for 6 foot wide walks. Jointing of sidewalk widths that deviate from the preceding shall meet with the approval of the City Engineer.
3. Contraction joints shall be D/4 inches deep, "D" equals depth of sidewalk, 5/16 inch width with edges rounded to 1/2 inch radius using double edging tool.
4. Expansion joints for sidewalks shall be located where sidewalks abut walls, curbs, driveways, or other pavement. Place flush with top surface of sidewalk.
5. Edges shall be finished with an edging tool having dimensions corresponding to those of double edging tool used for contraction joints.
6. There shall be a minimum of 1/2" compacted sand or gravel placed under all proposed sidewalks.

ARTICLE 29: EXPANSION AND CONTRACTION JOINTS

A. General:

1. Placement and finishing of joints shall be subject to approval of the City Engineer.
2. All joints shall be perpendicular to the finished pavement, except at intersections where special jointing arrangements are required.

3. Adjacent slabs shall not vary from a straightedge perpendicular to the joint by more than 1/8 inch.
4. Joints in abutting pavements shall not be staggered.
5. Joints abutting integral curb or curb and gutter shall not be staggered.
6. Unless specifically permitted by the City Engineer, joints shall be located as shown on the standard details.

B. Contraction Joints:

1. Extend joints entirely across pavement, at right angles to centerline.
2. Joints shall be prepared and placed as indicated on the Standard details, maximum spacing between joints 15 feet unless approved otherwise by the City Engineer.
3. Sawing of the joints at intervals specified shall begin as soon as the concrete has hardened sufficiently to permit sawing without excessive raveling, usually 4 to 24 hours.
4. All joints shall be sawed before uncontrolled shrinkage cracks occurs.
5. Sawing of any joint shall be omitted if a crack occurs near the joint location before the time of sawing.
6. Sawing shall be discontinued if a crack develops ahead of the saw.
7. All joints shall have a depth equal to $\frac{1}{4}$ of the slab thickness.

C. Construction Joints:

1. General.
 - i) Shall be installed as directed by the City Engineer.
 - ii) All construction joints shall be edged with a grooving tool of sufficient width and depth to receive and retain joint sealing material.
2. Transverse Construction Joints.
 - i) Locate where concrete placement has stopped long enough for concrete to harden and at end of day's work.

ii) Provide bulkhead with holes for required steel reinforced bars.

3. Longitudinal Construction Joints.

i) Sawed.

- a. Saw within seven (7) days after concrete placement in multi-lane construction.
- b. The depth of saw cut shall be at least $\frac{1}{4}$ of the pavement depth.
- c. Joints with keyway and tie bars may be substituted for sawed joints.

ii) Keyed and Tied.

- a. Use as a longitudinal construction joint.
- b. Attach keyway to forms with sufficient support to prevent movement during concrete placement.
- c. Support tie bars to insure proper positioning after concrete placement.
- d. Submit proposed method of forming keyed and tied joint for approval by the City Engineer if slip forming is proposed.

D. Expansion Joints:

1. Expansion joints shall be prepared and placed as indicated on the Standard details, maximum spacing between joints of 200 feet unless approved otherwise by the City Engineer.
2. The expansion joint filler shall be continuous from form to form, shaped to the sub-grade, curb section, and to the keyway along the form.
3. The expansion joint filler shall be held in a vertical position.
4. Finished joints shall not deviate in horizontal alignment more than $\frac{1}{4}$ inch from a straight line.

E. Sealing Joints:

1. All joints and shrinkage cracks which may occasionally occur shall be filled with approved sealing material.

2. Before sealing, each joint shall be cleaned of foreign material, including curing compound, joint faces cleaned and surface-dry when seal is applied.
3. The joints shall be filled immediately following the curing period or as soon thereafter as weather conditions permit, or as directed by the City Engineer.
4. Sealing material to be heated to temperature specified by manufacturer with temperature maintained during pouring period if applicable.

ARTICLE 30: CONCRETE PAVING

A. Proportions:

1. The concrete shall develop a minimum 28 day strength of 3,500 psi in compression. In general the following proportions shall apply:
 - i) Cement, sacks per cubic yard.
6.0
 - ii) Total water-cement-ratio
Gallons/sack cement not over 5.5
 - iii) Fine aggregate
50%-70%
 - iv) Coarse aggregate
30%-50%
 - v) Air content by volume
5%-8%
 - vi) Water reducer
Maximum cement reduction of 5%
 - vii) Fly ash
Only with the approval of Engineer
 - viii) Maximum allowable slump 2 inches for slip-form pavement and 3 inches for fixed-form pavement.
2. Control.
 - i) Contractor to submit samples of cement, admixtures, and aggregate to the testing firm for trial batch design which will produce results within the specified limits.

3. Curing compound shall be used after placing concrete to avoid cracking.

B. Concrete Compressive Strength Testing:

1. A minimum of one representative set of three (3) cylinder samples for each 1,000 square yards of pavement placed will be required.
2. These cylinders will be tested at 7 days (one cylinder) and 28 days (two cylinders).

C. Pavement Quality Requirements:

1. Additional testing of the cured concrete slab may be required at the City Engineer's option when test specimens fail to meet specified strength. The City Engineer may require the Contractor to take cores for any area of a given day's pour when any cylinder from this day's pour fails to meet the specified 28 day strength.
2. The Contractor shall furnish the City Engineer with scale tickets on all concrete.
3. The City Engineer or the City may at their discretion require the Contractor to take core samples to determine pavement thickness.

ARTICLE 31: DESIGN STANDARDS

A. General:

1. The design standards contained herein are intended for the purpose of establishing minimum requirements for sewer, water, and paving improvements constructed in the City of Wayne. These design standards are intended to supplement but not supersede the standard and criteria set forth in the City's Subdivision Ordinance and Building Codes, and those requirements prescribed by Local, State, or Federal laws. These design standards are not intended to be all inclusive or completely comprehensive, but rather to establish minimum criteria for certain aspects of design for public improvements being planned by the City or developers.

B. Water Distribution System:

1. Water mains will be sized to meet fire flow requirements of the State Insurance Services Office insomuch as is practicable, considering delivery capabilities of the in-place water facilities. Water mains for residential areas will be 8 inch minimum size except where 6 inch mains can be shown to be

adequate size for looped streets and cul-de-sacs. No water main less than 6 inch size will be permitted.

2. Water facilities including pumping, storage, and distribution will be designed to provide a minimum working pressure of approximately 35 psi and a normal working pressure for approximately 60 psi. Where maximum pressures will exceed 100 psi, pressure reducing devices will be required.
3. Dead-ends must be minimized by looping off all mains wherever practicable. Where dead-end mains cannot be avoided, they will be provided with a fire hydrant if flow and pressure are sufficient, or with a State Department of Health approved blow-off for flushing purposes. In no case will flushing devices be directly connected to any sewer.
4. Sufficient valves will be provided on water mains so inconvenience and sanitary hazards will be minimized during repairs. Valves will be located at no more than one block intervals and at no more than 500 feet and 800 feet intervals in commercial and residential areas, respectively.
5. In all new residential developments requiring connection to the city system, water mains will be provided for each lot either within the street right-of-way abutting the lot, in an easement along the back lot line of the lot, or in an easement along the side lot line of the lot. Water mains are to be located with the street right-of-way rather than in an easement wherever it is practicable.

C. Sanitary Sewers:

1. Sanitary sewers will be sized to carry the peak design flow including allowances for infiltration and inflow. Sewers will be designed for the estimated ultimate tributary population unless a plan of phased construction of smaller lines can be shown to be advantageous to the City. No gravity sewer main less than 8 inch size will be permitted.
2. The minimum slopes which must be provided for gravity sewer mains are as follows.

<u>Sewer Size</u>	<u>Slope in Feet/100 Feet</u>
8 inch	0.04
10 inch	0.28
12 inch	0.22
14 inch	0.17
15 inch	0.15
16 inch	0.14
18 inch	0.12
21 inch	0.10

24 inch

0.08

3. Sewers will be laid with straight alignment between manholes and with uniform slopes between manholes. Manholes will be installed at the end of each line; at all changes in grade, size or alignment; at all intersections and at distances not greater than 500 feet.
4. In all new residential developments requiring connection to the city system, sewer mains will be provided for each lot either within the street right-of-way abutting the lot, in an easement along the back lot line of the lot, or in an easement along the side lot line of the lot. Sewers are to be located with the street right-of-way rather than in an easement wherever it is practicable.

D. Storm Water Drainage:

1. Storm drainage systems will be designed to carry as a minimum, with adequate allowance for free-board and head losses, storm water flow from storms having the following frequency of occurrences:

Residential areas	10 years
Commercial and industrial areas	25 years

2. Storm sewers will have a minimum size of 15 inches.
3. Sewers less than 30 inches in diameter will be laid with straight alignment between manholes and with uniform slopes between manholes. Sewers greater than 30 inches in diameter may be laid with bends in alignment and changes in slope between manholes with the approval of the City Engineer.
4. Protective measures will be provided at pipe outlets and along open ditches to minimize soil and erosion.
5. Storm drainage systems will be designed for the estimated ultimate developed tributary area unless a plan of phased construction along with intermediate storm water control measures can be shown to be advantageous to the City.

E. Paving:

1. New streets constructed with integral curb and gutter shall be poured with no less than ½ of the street width such that the only cold joint would be at the center of the street. Full width street paving is preferred in all instances.
2. New streets shall be constructed at a depth of 7 inches minimum for local streets and 8 inches minimum for arterial and collector streets. Paving mix shall be approved by the City or the City Engineer.