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ORDINANCE NO. 2021-010

AN ORDINANCE AMENDING ORDINANCE 2017-002
ESTABLISHING THE FIRE PREVENTION CODE AND LIFE SAFETY CODE FOR THE
EAST DUNDEE AND COUNTRYSIDE FIRE PROTECTION DISTRICT

EXHIBIT A

FIRE PREVENTION CODE

AMENDED ADDITIONS, INSERTIONS, DELETIONS AND CHANGES

THE INTERNATIONAL FIRE CODE

The International Fire Code, 2021 edition, ("Fire Code") published by the International Code Council, Inc., Falls Church, Virginia, is hereby adopted by reference and made part of this Section, subject to the modifications set forth herein, and shall be applicable to the East Dundee and Countryside Fire Protection District.

(a) *Adopted*. There is hereby adopted by reference as if fully set out herein that certain code known as the 2021 edition of the *International Fire Code*, as published by the International Code Council, Inc., including Appendix Chapters B, E, G, I, K, N
(b) *Amendments.* The following additions, insertions, deletions and changes are hereby made to the above-adopted code:

SECTION 101

ADMINISTRATION – GENERAL

1. Section [A] 101.1 shall be amended to read as follows:

[A] 101.1 Title

Insert: "East Dundee and Countryside Fire Protection District, Kane and Cook Counties, Illinois" where indicated.

SECTION 103

CODE COMPLIANCE AGENCY

2. Section [A] 103.1 shall be amended to read as follows:

[A] 103.1 Creation of agency

Insert: "East Dundee and Countryside Fire Protection District" where indicated.

SECTION 104

DUTIES AND POWERS OF THE FIRE CODE OFFICIAL

3. Section [A] 104.8 shall be amended to read as follows:

[A] 104.8.3 Is added to read:

[A] 104.8.3 Inspection Agencies. The Fire Code Official is authorized to accept reports of approved inspection agencies, provided such agencies satisfy the requirements as to qualifications and reliability. The Fire Code Official is authorized to engage a third-party inspection agency for inspections of a technical nature. The property owner or the owner's agent shall be responsible for the reimbursement to the East Dundee and Countryside Fire Protection District or direct pay to the third-party all fees associated with inspections conducted by any third-party inspection agency and shall be paid in full prior to the issuance of a Certificate of Occupancy.

SECTION 106

CONSTRUCTION DOCUMENTS

4. Section [A] 106.1 shall be amended to read as follows:

[A] 106.1.1 is added to read:

[A] 106.1.1 Submittals. Two sets of drawings are to be submitted on paper for approval and returning as approved for onsite display and kept by the contractor/owner. All support documentation and one copy of the drawings are to be submitted electronically in an approved format by the fire code official.

SECTION 107

FEES

5. Section [A] 107.2 shall be amended to read as follows:

[A]107.2.1 is added to read:

[A] 105.1.2: Permit Fees. Fees are per the applicable East Dundee and Countryside Fire Protection District's fee schedule found in Attachment A.

SECTION 108

INSPECTIONS

6. Section [A] 108.2 shall be amended to read as follows:

[A] 108.2.3 is added to read:

[A] 108.2.3 Inspection Fees. Fees are per the applicable East Dundee and Countryside Fire Protection District's fee schedule found in Attachment A.

SECTION 111

MEANS OF APPEALS

7. [A] 111.1 shall be amended to read as follows:

[A] 111.1 Board of appeals established. In order to hear and decide appeals of orders, decisions or determinations made by the Code Official relative to the application and interpretation of this code, there shall be and is hereby created a board of appeals consisting of members who are qualified by experience and training to pass on matters pertaining to this code and who are not employees of the jurisdiction. The Code official shall be an ex officio member of said board but shall have no vote on any matter before the board. The board of appeals shall consist of the Fire Chief, and the board of trustees of the East Dundee and Countryside Fire Protection District. The board shall adopt rules of procedure for conducting business, and shall render all decisions and findings in writing to the applicant with a duplicate copy to the Code Official.

SECTION 112

VIOLATIONS

8. [A] 112.4 shall be amended to read as follows:

[A] 112.4 Violations penalties. Persons who shall violate a provision of this code or shall fail to comply with any of the requirements thereof or who shall erect, install, alter, repair or do work in violation of the approved construction documents or directive of the fire code official, or of a permit or certificate used under provisions of this code, shall be guilty of an ordinance violation punishable by a fine of not less than Fifty ($50.00) Dollars nor more than one Thousand ($1000.00) Dollars, plus all legal fees and all cost caused by enforcement. Such fees and costs shall include, but not limited to, staff costs of inspections or re-inspections, legal fees, and staff cost of enforcement. Each day that a violation continues after due notice has been served shall be deemed a separate offense.

SECTION 202

GENERAL DEFINITIONS

9. shall amend the definition of “Change Of Occupancy”

[A] Change of Occupancy. Either of the following shall be considered as a change of occupancy where this code requires a greater degree of safety, accessibility, structural strength, fire protection, means of egress, ventilation or sanitation than is existing in the current building or structure:

1. Any change in the occupancy classification of a building or structure.
2. Any change in the purpose of, or a change in the level of activity within, a building or structure

a. Exception: A change in the level of activity within a building or structure shall not require the addition of a sprinkler system to a building not already protected by a sprinkler system.

SECTION 503

FIRE APPARATUS ACCESS ROADS

10. 503.2.4 shall be amended to read as follows:

503.2.4 Turning radius. The required turning radius of a fire apparatus access road shall be determined by the fire code official and shall meet the minimum requirements of Attachment B, Truck Turning Radii.

SECTION 507

FIRE PROTECTION WATER SUPPLIES

11. 507.5 shall be amended to read as follows:

507.5 Fire Hydrant Systems. Fire hydrant systems shall comply with Sections 507.5.1, as amended, through 507.5.6.

12 507.5.1 shall be amended to read as follows:

507.5.1 Where required. Fire hydrants shall be located at every commercial building and be spaced every 300' of the circumference of a building on a looped water distribution system. A fire hydrant shall be located within 100' of a sprinkler fire department connection. Fire hydrants shall have adequate water main size per Village Ordinances or per Appendix B, Table B105.1. The Fire Code Official may review these requirements when meeting these requirements is not practical due to water availability.

SECTION 604

ELEVATOR OPERATION, MAINTENANCE AND FIRE SERVICE KEYS

13. 604.1.1 shall be amended to read as follows:

604.1.1 Automatic elevators for fire department use. Elevator cars are to accommodate the East Dundee & Countryside Fire Protection District Ambulance Stretcher. In any buildings equipped with an elevator, at least one elevator shall be such a size and arrangement to accommodate a 28" by 84" ambulance stretcher in the horizontal, open position and shall be identified by the international symbol of emergency medical services (Star of Life). The symbol shall not be less than 3 inches in height and shall be placed on the inside on both sides of the hoist way doorframe. The inside handrail shall be set at a maximum of 36 inches in height allowed under ADA standards to better accommodate the stretcher. The cab size is to be a minimum 5'x7' platform and a minimum of 2500 lb. capacity with a 42" side slide door.

SECTION 901

GENERAL

14. 901.2 shall be amended to read as follows:

901.2 Construction documents. The fire code official shall have the authority to require construction documents and calculations for all fire protection and life safety systems and to require permits be issued for the installation, rehabilitation or modification of any fire protection and life safety systems. Construction documents for fire protection and life safety systems shall be submitted for review and approval prior to system installation. Two (2) paper copies and one (1) electronic submission are required to be submitted for approval. A reproduction of each hydraulic placard shall be included on the design drawings near the corresponding hydraulically calculated area.

15. 901.6.3.2 shall be amended to read as follows:

901.6.3.2 Inspection, testing and maintenance records. Records of all system inspections, tests and maintenance required by the referenced standards shall be submitted to the East Dundee and Countryside Fire Protection District through the third-party system "The Compliance Engine".

16. 901.4.7 shall be amended to read as follows:

901.4.7 Pump and riser room size. Where provided, fire pump rooms and automatic sprinkler system riser rooms shall be designed with adequate space for all equipment necessary for the installation, as defined by the manufacturer, with sufficient working space around the stationary equipment. Clearances around equipment to elements of permanent construction, including other installed equipment and appliances, shall be sufficient to allow inspection, service, repair, or replacement without removing such elements of permanent construction or disabling the function of a required fire-resistance-rated assembly. Fire pump and automatic sprinkler system riser rooms shall be provided with outward swinging doors large enough to allow removal of the largest piece of equipment Every multi-occupant structure that does not have common areas shall be provided with a sprinkler room accessible from the exterior of the building that meets the following minimum standards listed in 901.4.7.1 through 901.4.7.9

901.4.7.1 No change

17. 901.4.7.2 shall be amended to read as follows:

901.4.7.2 Marking on access doors. The room shall be provided with a label on the exterior access door stating "FACP/SPRINKLER ROOM".

18. 901.4.7.3 shall be amended to read as follows:

901.4.7.3 Environment. The room shall be insulated according to the Building Code and provided with a heater that is designed to maintain the temperature of the entire room above 60 degrees Fahrenheit. A low temperature sensor shall be added to the FACP and provide a supervisory signal when the temperature drops below 40 degrees Fahrenheit.

901.4.7.4 No Change

19. 901.4.735 shall be added as follows:

901.4.7.5 Sidewalk. An approved sidewalk shall be provided leading from a common way to the entrance of the sprinkler room.

20. 901.4.7.6 shall be added as follows:

901.4.7.6 Electrical Service. A separate approved electrical service panel shall be provided within the room.

21. 901.4.7.7 shall be added as follows:

901.4.7.7 FACP. Fire Alarm Control panel shall be located within this room. It shall be mounted on the wall with the top of the panel no higher than six feet (6') above the floor of the room. It shall be clearly accessible with no obstructions nearer than eighteen inches (18") from any edge of the panel. A manual pull station shall be mounted at the exit of the sprinkler room to the exterior of the building.

22. 901.4.7.8 shall be added as follows:

901.4.7.8 System Drain. All portions of the sprinkler system shall drain into the drain located in the sprinkler room or directly outside. All drain valves for common systems including the dry system drain for the common attic area shall be located in the sprinkler room.

23. 901.4.7.9 shall be added as follows:

901.4.7.9 Floor Drain. A sanitary floor drain shall be installed in the room sufficiently sized to meet the flow rate of any device, including the backflow device. Floor drains serving backflow devices shall be sized in accordance with the discharge rates of the manufacture's flow charts of such devices. Any connecting wall system shall use water resistant gypsum backing board to a heigh of four feet (4') above the floor. The following table shall be used to determine the floor drain size:

Drain Size	Flow Rate GPM
4"	88
6"	264
8"	575
10"	1050
12"	1700

24. 901.4.7.10 shall be added as follows:

901.4.7.10 Control Valves and Monitoring. All new and existing system fire suppression control valves shall be electronically monitored with the alarm transmitted to the QuadCom Dispatch Center or any UL Listed communication center – in accordance with NFPA 72. All new multi-story structures shall have the automatic fire suppression system designed to provide separate zone control valves and flow switches for each story as well as main flow alarm initiation devices and control valves.

SECTION 903

AUTOMATIC SPRINKLER SYSTEMS

25. 903.2.1.1 shall be amended to read as follows:

903.2.1.1 Group A-1. An automatic sprinkler system shall be provided throughout stories containing Group A-1 occupancies and throughout all stories from the Group A-1 occupancy to and including the levels of exit discharge serving that occupancy where one of the following conditions exists:

1. the building square footage exceeds 5000 sq ft.
2. The fire area has an occupant load of 300 or more.
3. The fire area is located on a floor other than a level of exit discharge serving such occupancies.
4. The fire area contains a multiple-theater complex.

26. 903.2.1.3 shall be amended to read as follows:

903.2.2.3 Group A-3. An automatic sprinkler system shall be provided throughout stories containing Group A-3 occupancies and throughout all stories from the Group A-3 occupancy to and including the levels of exit discharge serving that occupancy where one of the following conditions exists:

1. the building square footage exceeds 5000 sq ft.
2. The fire area has an occupant load of 300 or more.
3. The fire area is located on a floor other than a level of exit discharge serving such occupancies.

27. 903.2.1.4 shall be amended to read as follows:

903.2.2.4 Group A-4. An automatic sprinkler system shall be provided throughout stories containing Group A-3 occupancies and throughout all stories from the Group A-4 occupancy to

and including the levels of exit discharge serving that occupancy where one of the following conditions exists:

1. the building square footage exceeds 5000 sq ft.

2. The fire area has an occupant load of 300 or more.

3. The fire area is located on a floor other than a level of exit discharge serving such occupancies.

28. 903.2.3 shall be amended to read as follows:

903.2.3 Group E. An automatic sprinkler system shall be provided for Group E occupancies as follows:

1. Throughout all Group E occupancies greater than 5000 sq ft.

2. The Group E fire area is located on a floor other than a level of exit discharge serving such occupancies.

Exception: Delete

29. 903.2.4 shall be amended to read as follows:

903.2.4 Group F-1. An automatic sprinkler system shall be provided throughout all buildings containing a Group F-1 occupancy where one of the following conditions exists:

1. A Group F-1 building exceeds 5000 sq feet.

2. A Group F-1 fire area is located more than three stories above grade plane.

3. The combined area of all Group F-1 fire areas on all floors, including any mezzanines, exceeds 24,000 sq feet.

30. 903.2.6 shall be amended to read as follows:

903.2.6 Group I. Delete exceptions

31. 903.2.7 shall be amended to read as follows:

903.2.7 Group M. An automatic sprinkler system shall be provided throughout buildings containing a Group M occupancy where one of the following conditions exist:

1. A Group M building exceeds 5000 sq ft.

2. A Group M fire area is located more than three stories above grade plane.

3. The combined area of all Group M fire areas on all floors, including any mezzanines, exceeds 15,000 sq ft.

32. 903.2.9 shall be amended to read as follows:

903.2.9 Group S-1. An automatic sprinkler system shall be provided throughout all buildings containing a Group S-1 occupancy where one of the following conditions exists:

1. a Group S-1 building exceeds 5000 sq ft.

2. A Group S-1 fire area is located more than three stories above grade plane.

3. The combined area of all Group S-1 fire areas on all floors, including any mezzanines, exceeds 15,000 sq ft.

4. A Group S-1 fire area used for the storage of commercial motor vehicles where the fire area exceeds 5,000 sq ft.

33. 903.2.9.1 shall be amended to read as follows:

903.2.9.1 Repair garages. An automatic sprinkler system shall be provided throughout all buildings used as repair garages in accordance with Section 406.8 of the International Building Code, as shown:

1. Buildings having two or more stories above grade plane, including basements, with a square footage exceeding 5,000 sq ft.

2. Buildings not more than one story above grade plane, with a square footage exceeding 5,000 sq ft.

3. Buildings with repair garages servicing vehicles parked in basements.

4. A Group S-1 fire area used for the repair of commercial motor vehicles where the fire area exceeds 5,000 sq ft.

34. 903.2.10 shall be amended to read as follows:

903.2.10 Group S-2 parking garages. An automatic sprinkler system shall be provided throughout all buildings classified as parking garages where any of the following conditions exists:

1. a Group S-2 building exceeds 5000 sq ft.

2. Where the enclosed parking garage, in accordance with Section 406.6 of the International Building Code, is located beneath other groups.

Exception: Delete

3. Where the fire area of the open parking garage, in accordance with Section 406.5 of the International Building Code, exceeds 48,000 sq ft.

35. 903.2.11.7 shall be added as follows:

903.2.11.7 Protection of available storage height. In Group S and all other storage areas, the fire sprinkler system shall be designed to protect storage up to the maximum available storage height. The minimum sprinkler density shall be equivalent to that required for a Class IV commodity pursuant to NFPA 13.

36. 903.3.9 shall be added as follows:

903.3.9 Sprinkler Safety Factor. Provide a minimum of 5 psi or 10% safety factor which ever is greater in the fire protection system hydraulic calculation for all new construction. The system demand shall be below the seasonal low water flow test supply and shall take into consideration changes in elevation from the test location. Hydrant water flow data used for design of any sprinkler system shall be no more than 1 year old. For existing systems being modified, a safety factor determined by the fire chief or his designee shall be approved if the 5 psi or 10% safety factor is not capable of being achieved.

37. 903.4.2.1 shall be added as follows:

903.4.2.1 Alarms, Visual. A blue strobe of at least 75CD located on the exterior of the building at an approved location, shall be connected to each automatic sprinkler system. Such sprinkler waterflow alarm devices shall be activated by water flow equivalent of the flow of a single sprinkler or the smallest orifice size installed in the system. Where a fire alarm system is installed, actuation of the automatic sprinkler system shall actuate the building fire alarm system.

CHAPTER 905

STANDPIPE SYSTEMS

38. 905.3 shall be amended to read as follows:

905.3 Required installations. Class I standpipe systems shall be installed where required by Sections 905.3.1 through 905.3.8 and in 905.4. Standpipe systems are permitted to be combined with automatic sprinkler systems unless otherwise noted.

Exception: Standpipe systems are not required in buildings and structures regulated by the International Residential Code.

39. 905.3.1 shall be amended to read as follows:

905.3.1 Height. Automatic Class I standpipe systems shall be installed throughout all buildings and portions of buildings:

1. Four or more stories are above or below grade plane.

2. The floor level of the highest story is located more than 30 feet above the lowest level of the fire department vehicle access.

3. The floor level of the lowest story is located more than 30 feet below the highest level of the fire department vehicle access.

4. Where any portion of the building floor area, including mezzanines, is more than 400 feet of travel from the nearest point of fire department vehicle access.

40. 905.3 shall be amended to add the following:

905.3.9. High-piled combustible storage. Buildings or portions of buildings with high-piled combustible storage shall be equipped with a Class I automatic wet standpipe system. Standpipe hose connections shall be located in high-piled combustible storage areas where storage exceeds 12 feet in height. Hose connections shall be located at each door to the high-piled combustible storage area. Where the travel distance between hose connections exceeds 200 feet, the fire code official is authorized to require additional hose connections be provided in approved locations. The standpipe system shall be:

1. Supplied off an adjacent system.

2. Hydraulically calculated for a minimum of 250 gallons per minute at 75 pounds per square inch to the most hydraulically remote fire hose valve.

3. Where system pressures exceed 100 pounds per square inch, a reduced pressure field-adjustable type hose valve shall be provided.

41. 905.4 shall be amended to add the following:

905.4.3 Hose connection threads. Each Class I standpipe hose connection shall be equipped with a 2.5-inch NST male hose valve, with a removable 2.5-inch female to 1.5-inch male adapter, which shall be permanently chained to the hose connection.

42. 905.5 Location of Class II standpipe hose connections. Shall be deleted in its entirety.

43. 905.6 Location of Class III standpipe hose connections. Shall be deleted in its entirety.

CHAPTER 907

FIRE ALARM AND DETECTION SYSTEMS

44. 907.1.1 shall be amended to read as follows:

907.1.1 Construction documents. Construction documents for fire alarm systems shall be of sufficient clarity to indicate the location, nature and extent of the work proposed and show in details that it will conform to the provisions of this code; the International Building Code; and relevant laws, ordinances, rules and regulations, as determined by the fire code official. 2 paper copies shall be submitted for approval, which will be returned once approved, and an electronic copy in a format as approved by the fire code official.

907.2.1 through 907.2.10 is deleted (and all related exceptions)

45. 907.2 shall be added as follows:

907.2 Where required – new buildings and structures. An approved fire alarm system installed in accordance with this code and NFPA 72 shall be provided in new buildings and structures. Manual pull stations shall be provided at each exit and where directed by the code official and all audio visual alarm devices and alarm indicating appliances shall be provided, seen and heard in all areas of every building. All sprinkler protected building shall be provided with audio/visual devices. This will provide full building notification. An approved automatic smoke detection fire alarm system installed in accordance with the provisions of this code and NFPA 72 shall be provided regardless of automatic sprinkler system coverage. In Group S, public and self-storage occupancies, detection shall be installed to allow for annual testing and maintenance without having to access inside the storage units. Visual and audio devices are not required inside the storage units.

> Exception: Multi-Tenant mercantile buildings where flow switches are installed per tenant suites are not required to provide full automatic smoke detection throughout the building, but do require ring by tenant visual and audible notification and manual pull stations at each exit and where directed by the code official.

46. 907.2.1 shall be added as follows:

907.2.1 Minimum square footage. All manual and automatic fire alarm systems shall be installed through all user group buildings greater than 2,000 square feet excluding structures covered by the International Residential Code.

47. 907.2.2 shall added as follows:

907.2.2 Visual Devices. In multi-tenant occupancies, a white strobe of at least 75 cd, shall be mounted at the address side of the building at the entrance to each suite that will activate using a ring by tenant arrangement. Any pull station, kitchen system, smoke, heat, flow or other device activating in the tenant space shall activate the outside strobe. A red strobe of at least 75 cd, shall be mounted above the entrance to the sprinkler/FACP room which will activate on any fire alarm activation for the building. A blue strobe of at least 75 cd, shall be mounted in a location determined by the code official, which will activate when a water flow is detected in the sprinkler system riser. When ring by tenant is not utilized, all warning devices will activate anytime a detection device activates throughout the entire structure.

48. 907.6.6.1 shall be amended as follows:

907.6.6.1 Transmission of alarm signals. Transmission of alarm signals to a supervising station shall be in accordance with NFPA 72 through a wireless radio connection to Quadcom dispatch or a UL listed monitoring company.

49. 907.8 shall be amended as follows:

907.8 Inspection, testing and maintenance. The maintenance and testing schedules and procedures for fire alarm and fire detections systems shall be in accordance with Section 907.8.1 through 907.8.4 and NFPA 72. Records of inspection, testing and maintenance shall be maintained. Copies of annual fire alarm testing shall be submitted to "The Compliance Engine".

SECTION 1008

MEANS OF EGRESS ILLUMINATION

50. 1008.3.3 shall be amended as follows:

1008.3.3 Rooms and spaces. In the event of power supply failure, an emergency electrical system shall automatically illuminate all of the following areas:

1. Electrical equipment rooms.
2. Fire command centers.
3. Fire pump rooms.
4. Generator rooms.
5. Public restrooms.

    Exception: Single occupant restrooms where no stalls are present.

- Sections 903.3.9 and 905.3.9. were amended on April 19, 2022.

Attachment A – Fire Prevention Fee Schedule

1. Plan Review Fees

a. Site Plan Review fee for the construction of new buildings shall be calculated by acreage. The first 10 acres are calculated at $15.00 per acre, then acres 11 through 99 are calculated at $10.00 per acre and acres over 100 are $5.00 an acre. A minimum of $100.00 fee for all site plan reviews.
b. Fire Code Plan Review fee for the construction of new buildings, additions, and interior buildouts conducted by the East Dundee Fire Protection District: $200.00
c. Fire Sprinklers Plan Reviews for plan reviews conducted by the East Dundee Fire Protection District with up to 20 sprinkler heads will be subject to a $200.00 review fee.
d. Fire Alarm Plan Reviews for plan reviews conducted by the East Dundee Fire Protection District.
    i. Fees will be calculated at $0.10 per square foot of the proposed project with a minimum of $100.00 fee on projects less than 5000 sq feet in size.
    ii. Projects 5000 sq feet and greater will be based on the total number of alarm devices including: control panels, annunciator panel, NAC panels, power supplies, initiating devices, notification devices, supervising devices, and relay control devices.
        1. 1-20 Alarm Devices $200
        2. 21-40 Alarm Devices $350
        3. 41-60 Alarm Devices $500
        4. 61-80 Alarm Devices $650
        5. 81-100 Alarm Devices $800
        6. Over 100 Alarm Devices $800 plus $5.00 per device over 100.
e. Commercial Kitchen Hood Suppression System plan reviews conducted by the East Dundee Fire Protection District will be based on the number of nozzles.
    i. 1-10 Nozzles $200.00
    ii. 11-20 Nozzles $300.00
    iii. Greater than 20 Nozzles $300 plus $5.00 per nozzle
f. Fireworks sales and display safety permit reviews will be subject to a $250.00 review fee.
g. Prescribed burn permit plan review will be subject to a $50.00 review fee.
h. Any plan review completed by a third party will be subject to a $150.00 review fee.

2. Inspection Fees

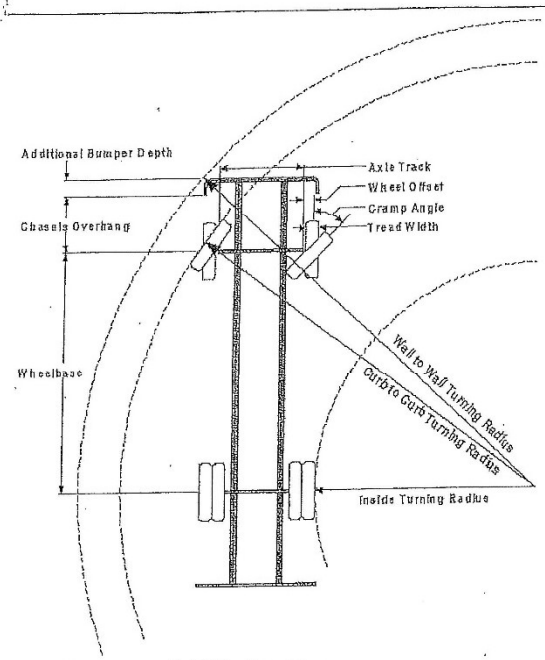
a. Fire Inspections conducted under Section 108 of the 2021 IFC will be subject to inspection fees listed below:
    i. Initial and 1st Reinspection - $0.00
    ii. 2nd Reinspection - $50.00
    iii. 3rd Reinspection - $100.00
    iv. 4th Reinspection – 100.00
    v. 5th Reinspection - $100.00

b. Sprinkler System Underground Flush inspections will be subject to a $100.00 fee.
c. Kitchen Suppression will be subject to inspection fees listed below:
    i. Initial and 1st reinspection - $100.00
    ii. Additional inspections - $100 each
d. Fire Alarm Above Ceiling and final acceptance inspections will be subject to a $200.00 fee.
e. Sprinkler System Above Ceiling and hydrostatic inspections will be subject to a $200.00 fee.
f. Sprinkler System Final inspections will be subject to a $100.00 fee.
g. Final Occupancy inspections will be subject to a $100.00 fee.
h. Firework sales and display inspections will be subject to a $250.00 fee.

Fees for plan reviews and inspections may be reduced or waived at the discretion of the fire chief or his designee.

Turning Performance Analysis

3/5/2009



Parameters:

Inside Cramp Angle:	45.00 °
Axle Track:	81.92 in.
Wheel Offset:	5.30 in.
Tread Width:	16.60 in.
Chassis Overhang:	68.99 in.
Additional Bumper Depth:	26.00 in.
Front Overhang	150.60 in.
Wheelbase:	253.00 in.

Calculated Turning Radii:

Inside Turn:	19 ft. 11 in.
Curb to Curb:	36 ft. 1 in.
Wall to Wall:	44 ft. 5 in.

Comments:

Aerial Application

West Dundee, IL. Pierce job 10867

Components	PRIDE #	Description
Front Wheels	0019618	Wheels, Frt, Alum, Alcoa, 22.50" x 13.00" (425/445)
Front Tires	0078244	Tires, Michelin, 425/65R22.50 20 ply XZY 3 tread
Chassis	0054968	Arrow-XT Chassis, PAP/SkyArm/Midmount
Front Bumper	0550018	Bumper, 26" extended - AXT
Aerial Device	0022160	Aerial, 100' Pierce Platform

Notes:

Actual Inside Cramp Angle may be less due to highly specialized options.

Curb to Curb turning radius calculated for a 9.00 inch curb.

Turning Performance Analysis

Definitions:

Inside Cramp Angle	Maximum turning angle of the front inside tire.
Axle Track	King-pin to king-pin distance of the front axle.
Wheel Offset	Offset from the center-line of the wheel to the king-pin.
Tread Width	Width of the tire tread.
Chassis Overhang	Distance from the center-line of the front axle to the front edge of the cab. This does not include the bumper depth.
Additional Bumper Depth	Depth that the bumper assembly adds to the front overhang.
Wheelbase	Distance between the center lines of the vehicle's front and rear axles.
Inside Turning Radius	Radius of the smallest circle around which the vehicle can turn.
Curb to Curb Turning Radius	Radius of the smallest circle inside of which the vehicle's tires can turn. This measurement assumes a curb height of 9 inches.
Wall to Wall Turning Radius	Radius of the smallest circle inside of which the entire vehicle can turn. This measurement takes into account any front overhang due to the chassis, bumper extensions and/or aerial devices.