

ORDINANCE NO. 2024-O-01

AN ORDINANCE ADOPTING AN AMENDED FIRE PREVENTION CODE FOR THE EAST DUNDEE AND COUNTRYSIDE FIRE PROTECTION DISTRICT

WHEREAS, the East Dundee and Countryside Fire Protection District (the "District") is a fire protection district duly incorporated under the laws of the State of Illinois (70 ILCS 705/1 *et seq.*); and

WHEREAS, it has been and remains the intention of the District to require that all structures and buildings erected and constructed within the boundaries of the District are built and constructed in accordance with the terms of the applicable fire prevention codes as well as the laws of the State of Illinois relating to building construction; and

WHEREAS, a necessary and essential action to ensure compliance with the applicable fire prevention codes and State building related laws requires a review by the District of all structure and building plans, blueprints, and other construction documents for both building and life safety purposes; and

WHEREAS, such review by the District of structure and building plans, blueprints, and other construction documents requires considerable time and expertise by the trained fire prevention professionals employed by the District; and

WHEREAS, in recognition of these recitations, the Board finds that it is in the District's best interests to charge fees for plan reviews performed by the District's employees or performed under the direction of the District.

NOW, THEREFORE, BE IT ORDAINED by the Board of Trustees of the East Dundee and Countryside Fire Protection District, Kane and Cook Counties, Illinois, as follows:

Section One: The Board hereby finds that all of the recitals contained in the preambles to this Ordinance are full, true and, correct and incorporated into this Ordinance by reference.

Section Two: Any individual, business, corporation, or other entity requesting a review of structure and building plans, blueprints, and other construction documents for purposes of determining compliance with applicable fire prevention codes and State building construction laws, shall be charged and assessed a fee following the District's Fire Prevention Fee Schedule, which is attached hereto and made a part hereof as Exhibit A;

Section Three: All fees and costs prescribed in Exhibit A shall be due and payable upon submission of the structure and building plans, blueprints, and other construction documents submitted for review; and no review or approval shall be rendered by District personnel until all such fees have been paid in full.

Section Four: All revenue generated from the fees and charges assessed pursuant to this Ordinance shall be deposited in the corporate fund of the East Dundee and Countryside Fire Protection District.

Section Five: All Ordinances and parts of ordinances in conflict or inconsistent with the provisions of this Ordinance are hereby repealed to the extent that they may conflict.

Section Six: The invalidation of any section, part, provision, term, or phrase of this Ordinance by a court of competent jurisdiction shall not affect the validity of the remaining sections, parts, provisions, terms, or phrases of this Ordinance.

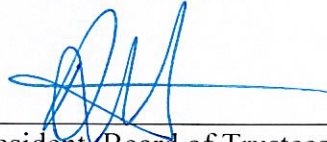
Section Seven: This Ordinance shall be in full force and effect from and after its passage and approval.

ADPOTED this 19th day of March, 2024, by the following roll call vote:

AYES: 3

NAYS: 0

ABESENT: 0



President, Board of Trustees
East Dundee and Countryside
Fire Protection District

ATTEST:



Secretary, Board of Trustees
East Dundee and Countryside
Fire Protection District

ORDINANCE NO.2024-O-01

AN ORDINANCE AMENDING THE ORDINANCE 2024-
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.

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, D, E, G, I, K, N

Amendments. The following additions, insertions, deletions, and changes are hereby made to the above-adopted code:

CHAPTER 1
SCOPE AND ADMINISTRATION

SECTION 101
ADMINISTRATION-GENERAL

1. 101.1 Title

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

SECTION 103
CODE COMPLIANCE AGENCY

2. 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. 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 technical inspec. 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, Permit, or Final Inspection Approval.

SECTION 105
PERMITS

- 4. 105.1.1 Work Conducted without approved permits.** Any work, construction, additions, renovations, or permissible operations as defined and/or required by this code being conducted without the approval from the fire code official will constitute the implementation of Section 112.4 Violation Penalties, including the addition of the original permit fee as outline in the East Dundee Fire Districts Fee Schedule being doubled.
- 5. 105.1.2.1 Permit Fees.** Fees are per the applicable East Dundee and Countryside Fire Protection Districts fee schedule found in attachment A.

SECTION 106
CONSTRUCTION DOCUMENTS

- 6. 106.1.1 Submittals.** Drawings are to be submitted electronically in an approved format by the fire code official, returned as approved for onsite display and kept by the contractor/owner. All required support documentation must be submitted electronically in an approved format by the fire code official.

SECTION 107 FEES

- 7. 107.2 Schedule of permit fees.** Where a permit is required, a fee for each permit shall be paid as directed and by the date determined by the Authority Having Jurisdiction in accordance with the schedule as established in Section 105.2.2.1 Permit Fees.

SECTION 108 INSPECTIONS

- 8. 108.2.3 Inspection fees.** Fees are per the applicable East Dundee and Countryside Fire Protection Districts fee schedule found in Attachment A.

SECTION 111 MEANS OF APPEALS

- 9. 111.1 Board of Appeals established.** In order to hear and decide appeals of orders, decisions, or determinations made by the *Fire 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

- 10. 112.4 Violation 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 per violation, plus all legal fees and all cost caused by enforcement. Such fees and costs shall include, but are not limited to, staff costs of inspections or re-inspections, legal fees, and staff costs of enforcement. Each day a violation continues after due notice has been served shall be deemed a separate offense.

CHAPTER 2 DEFINITIONS

SECTION 202 GENERAL.

- 11. 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.
 3. Any change in ownership of a building, structure, or occupancy.
- 12. Fire Code Official.** The Fire Chief, Fire Marshal, or other designated authority charged with the administration and enforcement of the code or a duly authorized representative.
- 13. Nuisance Alarm.** A signal initiated by the fire alarm system or device indicates a repetitive or unrestorable fault within a monitored circuit or component, causing the Fire District's response for rectification.

CHAPTER 5
FIRE SERVICE FEATURES

SECTION 503

FIRE APPARATUS ACCESS ROADS

- 14. 503.2.3.1 Access and loading.** Facilities, buildings, or portions of buildings hereafter constructed shall be accessible to fire department apparatus by way of an approved fire apparatus access road with an asphalt, concrete, or other approved driving surface capable of supporting the imposed load of fire apparatus weighing at least 75,000 pounds (34,050 kg)
- 15. 503.2.4 Turning Radius.** The required turning radius of a fire apparatus road shall be determined by the fire code official and shall meet the requirements of Attachment B, Truck Turning Radii.
- 16. 503.2.7 Grade.** The Grade of the fire apparatus access road shall not exceed 10 percent in grade.
Exception: Grades steeper than 10 percent as approved by the fire code official.

SECTION 505

PREMISE IDENTIFICATION

- 17. 505.1 Address identification.** New and existing buildings, structures, parks, and commercial parking lots shall be provided with approved address identification. The address identification shall be legible and placed in a position that is visible from the street or road fronting the property. Address identification characters shall contrast with their background. Address numbers shall be Arabic numbers or alphabetical letters. Numbers shall not be spelled out. Each character shall be not less than 5 inches (102 mm) high with a minimum stroke width of 1/2 inch (12.7 mm). Where required by the fire code official, address identification shall be provided in additional approved locations to facilitate emergency response. Where access is by means of a driveway or private road and the building cannot be viewed from the public way, a monument, pole, or other sign or means shall be used to identify the structure. Address identification shall be maintained.
- 18. 505.3 Commercial Parking Lot Identification.** Commercial Parking lots shall be identified with an approved address identification sign in accordance with section 505.1 Address identifications.
- 19. 505.3.1 Commercial Parking Lot Location Identification.** Where multiple parking lots are combined under one address, address pin, or as required by the fire code official, Commercial parking lots shall be individually identified with their own number, letter, or character as approved by the fire code official.

SECTION 507

FIRE PROTECTION WATER SUPPLIES

- 20. 507.5 Fire Hydrant Systems.** Fire hydrant systems shall comply with Sections 507.5.1, as amended, through 507.5.6.
- 21. 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 Appendix B, Table B105.1. The Fire Code Official may review these requirements when meeting these requirements is not practical due to water availability.

22. 507.5.2 Inspection, testing and maintenance. Fire hydrant systems shall be subject to periodic tests as required by the fire code official. Fire hydrant systems shall be maintained in an operative condition at all times and shall be repaired where defective. Additions, repairs, alterations, and servicing shall comply with approved standards. Records of tests and required maintenance shall be maintained. Copies of annual fire hydrant testing shall be submitted to Brycer's "The Compliance Engine" within 30 days of inspection and or maintenance.

23. 507.5.2.1 Inspection, testing, and maintenance records violation. Inspection, Maintenance, and testing companies, owners, or responsible persons who do not submit required documentation to Brycer's "The Compliance Engine" in the required time frame will be subject to the East Dundee Fire District Local Violation Ordinance as outlined in Sec 112.4 Violation Penalties.

24. 507.5.3 Private fire service mains and water tanks. Private fire service mains and water tanks shall be periodically inspected, tested, and maintained in accordance with NFPA 25 at the following intervals:

1. Private fire hydrants of all types: Inspection annually and after each operation; flow test and maintenance annually.
2. Fire service main piping: Inspection of exposed annually; flow test every 5 years.
3. Fire service main piping strainers: Inspection and maintenance after each use.

Records of inspections, testing, and maintenance shall be maintained. Copies of annual private fire service mains and water tank testing shall be submitted to Brycer's "The Compliance Engine" within 30 days of inspection and or maintenance.

25. 507.5.3.1 Inspection, testing, and maintenance records violation. Inspection, Maintenance, and testing companies, owners, or responsible persons who do not submit required documentation to Brycer's "The Compliance Engine" in the required time frame will be subject to the East Dundee Fire District Local Violation Ordinance as outlined in Sec 112.4 Violation Penalties.

CHAPTER 6
BUILDING SERVICES AND SYSTEMS

SECTION 604

ELEVATOR OPERATION, MAINTENANCE, AND FIRE SERVICE KEYS

26. **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 building 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 hoistway doorframe. To accommodate the stretcher better, the inside handrail shall be set at a maximum of 36 inches in height, as allowed under ADA standards. 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 606

COMMERCIAL COOKING EQUIPMENT AND SYSTEMS

27. **606.3.3.1 Records.** Records for inspections shall state the individual and company performing the inspection, a description of the inspection, and when the inspection took place. Records for cleanings shall state the individual and company performing the cleaning and when the cleaning took place. Such records shall be completed after each inspection or cleaning and maintained. Copies of annual commercial cooking systems testing and cleaning shall be submitted to Brycer's "The Compliance Engine" within 30 days of inspection and or maintenance.
28. **606.3.3.2. Inspection, testing, cleaning, and maintenance records violation.** Inspection, Maintenance, cleaning, and testing companies, owners, or responsible persons who do not submit required documentation to Brycer's "The Compliance Engine" in the required time frame will be subject to the East Dundee Fire District Local Violation Ordinance as outlined in Sec 112.4 Violation Penalties.

CHAPTER 9
FIRE PROTECTION AND LIFE SAFETY SYSTEMS

SECTION 901
GENERAL

- 29. 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. (1) submission in an electronic format approved by the fire code official, including all required and supporting documentation, is 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.
- 30. 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 the 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 as amended through 901.4.7.9
- 31. 901.4.7.2 Marking on access doors.** The exterior access doors for the automatic sprinkler system riser and fire pump rooms shall be labeled "FACP/SPRINKLER ROOM." The lettering shall be in a contrasting color to the background. Letters shall have a minimum height of 2 inches (51 mm) with a minimum stroke of 3/8 inch (10mm)
- 32. 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."
- 33. 904.7.3 Environment.** The room shall be insulated according to the Building Code and provided with a heater designed to maintain the temperature of the 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.
- 34. 901.4.7.5 Sidewalk.** An approved sidewalk shall be provided leading from a common way to the entrance of the sprinkler room.
- 35. 901.4.7.6 Electrical Service.** A separate approved electrical service panel shall be provided within the room.

36. **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 accessible with no obstructions nearer than eighteen inches (18") from any edge of the panel. A manual pull station shall be mounted at the sprinkler room's exit to the building's exterior.

37. **901.4.7.8 System Drain.** All portions of the sprinkler system shall drain into a drain of adequate size in the sprinkler room or directly outside. All drain valves for systems, including the dry system drain for the common attic area, shall be located in the sprinkler room.

38. **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 manufacturer's flow charts of such devices. Any connecting wall system shall use a water-resistant gypsum backing board to a height 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 |

39. **901.4.7.10 Control Valves and Monitoring.** All new and existing system fire suppression control valves shall be electronically monitored with an 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

40. **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's 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.

41. **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's 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.

- 42. 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's 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.
- 43. 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.
 - i. Exception: Delete
- 44. 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 more than three stories above the grade plane.
 3. The combined area of all Group F-1 fire areas on all floors, including any mezzanines, exceeds 24,000 square feet.
- 45. 903.2.6 Group I.**
- i. Exception: Delete
- 46. 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 more than three stories above grade plane.
 3. The combined area of all Group M fire areas on all floors, including any mezzanines, exceeds 15,000sq.
- 47. 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 square feet.
 2. A Group S-1 fire area is more than three stories above the grade plane.
 3. The combined area of all Group S-1 fire areas on all floors, including mezzanines, exceeds 15,000 sq ft.
 4. A Group S-1 fire area is used for the storage of commercial motor vehicles where the fire area exceeds 5,000 sq ft.
- 48. 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 with two or more stories above grade plane, including basements, have square footage exceeding 5,000 sq ft.
 2. Buildings not more than one story above grade plane, with square footage exceeding 5,000 sq ft.
 3. Buildings with repair garages servicing vehicles parked in basements.
 4. A Group S-1 fire area is used for the repair of commercial motor vehicles where the fire area exceeds 5,000 sq ft.

- 49. 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 exist:
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.
 - i. Exception: Delete
 3. The fire area of the open parking garage, per Section 406.5 of the International Building Code, exceeds 48,000 sq ft.
- 50. 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.
- 51. 903.3.9 Sprinkler Safety Factor.** Provide a minimum of 5 psi or 10% safety factor, whichever 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 the design of any sprinkler system shall be at most 1-year-old. For existing systems being modified, a safety factor determined by the fire code official shall be approved if the 5 psi or 10% safety factor cannot be achieved.
- 52. 903.4.2.1 Visual Device.** A blue strobe of at least 75CD, located on the exterior of the building at a location approved by the fire code official, shall be connected to each automatic sprinkler system. Such sprinkler water flow alarm devices shall be activated by water flow equivalent to 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.

SECTION 904

ALTERNATIVE AUTOMATIC FIRE-EXTINGUISHING SYSTEMS.

- 53. 904.13.5.2 Extinguishing system service.** Automatic fire-extinguishing systems shall be serviced not less frequently than every six months and after activation of the system. Inspection shall be by qualified individuals, and a certificate of inspection shall be submitted to Brycer's "The Compliance Engine" within 30 days of inspection and or maintenance.
- 54. 904.13.5.2.1 Inspection, testing, and maintenance records violation.** Inspection, Maintenance, and testing companies, owners, or responsible persons who do not submit required documentation to Brycer's "The Compliance Engine" in the required time frame will be subject to the East Dundee Fire District Local Violation Ordinance as outlined in Sec 112.4 Violation Penalties.

SECTION 905

STANDPIPE SYSTEMS

- 55. 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.
- i. Exception: Standpipe systems are not required in buildings and structures regulated by the International Residential Code.

- 56. 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 the grade plane.
 2. The highest story's floor level is more than 30 feet above the lowest level of the fire department vehicle access.
 3. The lowest story's floor level is 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 fire department vehicle access point.

- 57. 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 to 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.

- 58. 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.

59. 905.5 Location of Class II standpipe hose connections. It shall be deleted in its entirety.

60. 905.6 Location of Class III standpipe hose connections. It shall be deleted in its entirety.

SECTION 907

FIRE ALARM AND DETECTION SYSTEMS

- 61. 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 detail 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. Drawings are to be submitted electronically in an approved format by the fire code official, returned as approved for onsite display and kept by the contractor/owner. All required support documentation is to be submitted electronically in an approved format by the fire code official.
- 62. 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, and occupant notification shall be provided in accordance with Section 907.5 unless other requirements are provided by another section of this code.
- 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 buildings 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 the storage units. Visual and audio devices are not required inside the storage units.

1. Exception: Delete
2. Exception: Delete
3. 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.

63. 907.2.1 through 907.2.10 It shall be deleted in its entirety.

64. 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.

65. 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 CDs shall be mounted above the entrance to the sprinkler/FACP room, which will activate upon 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.

66. 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.

67. 907.8 Inspection, testing, and maintenance. The maintenance and testing schedules and procedures for fire alarm and fire detection systems shall be in accordance with Section 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 Brycer's "The Compliance Engine" within 30 days of inspection, testing, and or maintenance.

68. 907.8.5 Inspection, testing, and maintenance records violation. Inspection, Maintenance, and testing companies, owners, or responsible persons who do not submit required documentation to Brycer's "The Compliance Engine" in the required time frame will be subject to the East Dundee Fire District Local Violation Ordinance as outlined in Sec 112.4 Violation Penalties.

SECTION 913
FIRE PUMP

69. 913.5 Testing and maintenance. Fire pumps shall be inspected, tested, and maintained in accordance with the requirements of this section and NFPA 25. Records of inspection, testing, and maintenance shall be maintained. Copies of the annual fire pump testing shall be submitted to Brycer's "The Compliance Engine" within 30 days of inspection, testing, and maintenance.

70. 913.5.5 Inspection, testing, and maintenance records violation. Inspection, Maintenance, and testing companies, owners, or responsible persons who do not submit required documentation to Brycer's "The Compliance Engine" in the required time frame will be subject to the East Dundee Fire District Local Violation Ordinance as outlined in Sec 112.4 Violation Penalties.

CHAPTER 10
MEANS OF EGRESS

SECTION 1008
MEANS OF EGRESS ILLUMINATION

- 71. 1008.3.3 Rooms and spaces.** In the event of power supply failure, an emergency electrical system shall automatically illuminate all the following areas:
1. Electrical equipment rooms.
 2. Fire command centers.
 3. Fire pump rooms.
 4. Generator rooms.
 5. All Public restrooms.
 - i. Exception: Single-occupant restrooms where no stalls are present.

CHAPTER 11
CONSTRUCTION REQUIREMENTS FOR EXISTING BUILDINGS

SECTION 1103

FIRE SAFETY REQUIREMENTS FOR EXISTING BUILDINGS.

72. **1103.7 Fire Alarm systems.** An approved fire alarm system shall be installed in existing buildings and structures in accordance with Sections 1103.7.1 through 1103.7.6 and provide occupant notification in accordance with Section 907.5 unless other requirements are provided by other sections of this code.
- i. Exception: Occupancies with an existing, previously approved fire alarm system.

73. **1103.7 Fire alarm systems.** An approved fire alarm system shall be installed in existing buildings and structures in accordance with this code and NFPA 72 and provide occupant notification in accordance with Section 907.5 unless other requirements are provided by another section of this code.

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 buildings 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 the storage units. Visual and audio devices are not required inside the storage units.

1. 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.
 - i. Exception: Occupancies with an existing, previously approved fire alarm system.

74. **Sections 1103.7.1 through 11.0.7.6.** It shall be deleted in its entirety.

75. **1103.7.1 Minimum square footage.** All manual and automatic fire alarm systems shall be installed through all user group existing buildings greater than 2,000 square feet, excluding structures covered by the International Residential Code.

Attachment [A]
Fee Schedule

East Dundee and Countryside Fire Protection District Fee Schedule

401 Dundee Ave. East Dundee IL 60118

www.edfire.com

fireprevention@edfire.com

The East Dundee Fire District now completes plan reviews digitally. Please see local ordinance **106.1.1 Submittals** for requirements.

All plan review fees include up to two (2) reviews and two (2) inspections. Any additional reviews will incur additional fees, as shown in their respective tables. Any further inspection past the two allotted inspections will incur additional fees, as shown in the "Additional Inspections" tables below.

PAYMENTS:

The East Dundee Fire District accepts two (2) types of payments.

Cash is not accepted!

ONLINE PAYMENT

If you choose to pay online, The East Dundee Fire District utilizes "**Square**" as an online payment platform. Invoices will be created by the Fire District and emailed directly to the submitter. "*Service fees will apply.*"

CHECKS

If you choose to pay by check, you must notify the Fire District so the invoice may be adjusted, and service fees will be removed. Checks must be made payable to the "East Dundee Fire District."

In the memo line, include the project address and review type. For example, "123 Main Street, Suite B. Fire Alarm Review."

LATE FEES

All invoices must be paid in full by the due date stated on the submitted invoice. If payment is not met by its due date, a 10% increase in the total invoice will be applied.

TIME:

Once all required documentation and plans are submitted, the Fire Prevention Bureau will add your project to the queue for review. Reviews can take up to 14 business days to be submitted.

EXPEDITED REVIEWS:

Expedited reviews may be requested for projects. The Fire Marshal must approve the request, and all fees must be paid before the review process begins.

EXPEDITED REVIEW FEES/TIME:

Expedited review fees will double the total cost of the review project. All costs must be paid prior to the start of the expedited review process.

3RD PARTY REVIEW FEES:

Based on the complexity of a plan review, plans may be sent to a third-party code consultant for review. The submitting party is responsible for payment of associated fees, including the Fire District's third-party review fee.

INSPECTIONS

Inspections must be scheduled 72 hours in advance with the Fire Marshal. Any expedited inspection requests will constitute the inspection fee doubling.

DISCLAIMER!!

ANY WORK OR PERMITTABLE OPERATIONS BEING CONDUCTED WITHOUT THE FIRE MARSHAL'S APPROVAL WILL CONSTITUTE THE PLAN AND OR PERMIT FEE DOUBLING, PLUS THE ADDED COST OF VIOLATION FEES PER LOCAL ORDINANCE 112.4.

EAST DUNDEE FIRE DISTRICT 2021 IFC & LOCAL ORDINANCE CODE VIOLATION FEE

112.4 Violation 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 per violation, plus all legal fees and all cost caused by enforcement.** Such fees and expenses shall include but are not limited to, **staff costs of inspections or re-inspections, legal fees, and staff costs of enforcement.** Each day a violation continues after due notice has been served shall be deemed a separate offense.

(Not less than \$50.00, no more than \$1,000.00 per violation + all legal fees and all costs caused by enforcement.)

FIRE INSPECTIONS

Annual Life Safety
Inspection
\$0.00

1st
Reinspection
\$0.00

2nd
Reinspection
\$100.00

3RD
Reinspection
\$150.00

4th
Reinspection
\$200.00 + violation fees

FIRE CODE PLAN REVIEW (2021 IFC & Local Ordinances)

0-500 sq ft
\$150.00

501-1,000 sq ft
\$200.00

1,001-5,000 sq ft
\$250.00

>5,000 sq ft
\$300.00

FINAL OCCUPANCY INSPECTIONS (Includes required Fire Plan Review Costs)

0-500 sq ft
\$250.00

501-1,000 sq ft
\$350.00

1,001-5,000 sq ft
\$450.00

>5,000 sq ft
\$550.00

FALSE ALARM VIOLATIONS

1st & 2nd False Alarm
Warning

3rd False Alarm
\$50.00

4th False Alarm
\$100.00

Over 4 False Alarms
\$200.00 per each additional

NUISANCE ALARM RESPONSE VIOLATIONS

1st response
\$50.00

2nd Response
\$75.00

3rd Response
\$100.00

Over 4 Nuisance alarm responses
\$150.00 + Violation fees

CONSULTATIONS

Basic Fire Code Review

(Includes general precautions, emergency planning, fire service features, etc.)

\$200.00

Special Fire Code Review

(Includes basic review + High hazard, Special hazard, Assembly hazard, or special facilities)

\$400.00

IMPACT FEES

(Village of East Dundee only)

Industrial

\$1,220.00 per acre

Commercial

\$2,581.00 per acre

Residential

\$363.00 per unit

SITE PLAN

Plan Review

\$100.00

+ (plus)

1 – 10 acres

\$10.00 per acre

11 – 00 acres

\$15.00 per acre

>100 acres

\$20.00 per acre

BUILDING PLAN OR ADDITION

Plan Review

\$100.00

+ (plus)

0-500 sq ft

\$150.00

501-1,000 sq ft

\$200.00

1001-5,000 sq ft

\$250.00

>5,000 sq ft

\$300.00

DEMOLITION PLAN

Plan Review

\$100.00

+ (plus)

0-500 sq ft

\$150.00

501-1,000 sq ft

\$200.00

1001-5,000 sq ft

\$250.00

>5,000 sq ft

\$300.00

FIRE ALARMS
(NFPA72)

Plan Review
\$150.00

+ (plus)

Projects <5,000 sq ft
\$.15 per sq ft

Or

Projects >5,000 sq ft

1-20 devices
\$200.00

21-40 devices
\$350.00

41-60 devices
\$500.00

61-80 devices
\$650.00

81-100 devices
\$800.00

>100 devices
\$1,000 + \$5.00 per
each additional device

+ (plus)

Above ceiling and final acceptance
\$200.00

SPRINKLER & SUPPRESSION SYSTEMS
(NFPA 13,13R,13D,17,17A)

(All Sprinkler and Suppression systems reviews must be submitted to Fire Safety Consultants Inc (FSCI) for review and approval by FSCI and the Fire Marshal.
Separate FSCI Fees are the responsibility of the Submitter.

Sprinkler Plan Review
\$200.00

Sprinkler Modification Plan Review
\$150.00 + \$10.00 per device

+ (plus)

Underground Flush
\$100.00
(where required)

Hydrostatic & Above Ceiling rough-in
\$200.00

(Hydrostatic testing is required on all new installs or when over 20 heads have been modified, installed, or where new lines are added to existing systems)

Final Acceptance
\$100.00

KITCHEN SUPPRESSION SYSTEMS
(NFPA 96)

1 to 10 nozzles
\$200.00

11 to 20 nozzles
\$300.00

Over 20 nozzles
\$350.00 + \$5.00 per additional
nozzle

+ (plus)

Initial & Final Inspection
\$100.00

HIGH RACK / HIGH-PILED COMBUSTIBLE STORAGE
(NFPA 231C /NFPA 231D/ IFC 2021 SEC 3201.1)

PLAN & PERMIT REVIEW

High-Piled Combustible

Storage of combustible materials in closely packed piles or on pallets, in racks or on shelves, where the top of the storage area is greater than 12 feet.

<500 sq ft
\$200.00

>500 sq ft
\$350.00

High-Piled High-Hazard Commodities

Storage such as rubber tires, Group A plastics, flammable liquids, idle pallets, and similar materials where the top of the storage exceeds 6 feet.

<500 sq ft
\$400.00

>500 sq ft
\$600.00

Required Inspections

Final Inspection
\$100.00

Disclaimer: Does not include required upgrades to the Fire protection system(s)

SOLAR PANELS / ENERGY STORED SYSTEMS / EV CHARGING STATIONS

Residential Plan Review

\$250.00

Commercial Plan Review

\$500.00

Or

\$0.10 per sq ft

(Whichever is greater)

+ (plus)

Energy Storage Systems Permit

\$100.00

SPRAY BOOTHS

Plan Review

\$200.00

+ (plus)

Initial & Final Inspection

\$50.00

Additional Inspections

\$100.00 each

Disclaimer: Does not include Spray booth required Fire protection system(s)

OPERATIONAL PERMITS

(All operational permits have their required inspection)

Aboveground Storage Tanks

\$150.00 per operational period

Mobile Food Trucks

\$150.00 Annually

Underground Storage Tanks

\$250.00 per operational period

Temporary Amusement Rides

\$100.00 per operational period per ride

Energy Storage Systems

\$100.00 per operational period

Inflatable Rides

\$50.00 per operational period per ride

PRESCRIBED / OPEN BURNS

Residential

\$50.00 per operational period

Commercial

\$100.00 per operational period

Government/Non-for Profits

Call Fire Prevention Bureau for Pricing

TENTS AND TEMPORARY STRUCTURES

If applicable

Tent Plan Review

\$100.00

+ (plus)

Permit Cost

\$50.00 per 180 days

Or

\$0.05 per sq ft per 180 days
(Whichever is greater)

FIREWORKS / PYROTECHNICS DISPLAYS

Pyrotechnic Displays

\$200.00 per display

Fireworks Displays

\$250.00 per display

(Firework Displays Require a Fire Suppression Vehicle Standby)

Laser Displays

\$100.00 per display

+ (plus)

Set up and final inspection.

\$100.00

(Disclaimer: Fees do not include the crew or apparatus rates for the required apparatus standby)

EAST DUNDEE FIRE DISTRICT ONLINE PAYMENT SURCHARGES

Online card transaction

3.3% + \$0.30

In-person (tap/dip/swipe)

2.6% + \$0.10

Manually Entered card payment

3.5% + \$0.15

EAST DUNDEE FIRE DISTRICT CREW RATES

Chief Officer
\$140.00 per hour.

Firefighter/Paramedic
\$70.00 per hour.

Fire Marshal
\$100.00 per hour.

EAST DUNDEE FIRE DISTRICT VEHICLE RATES

Ambulance

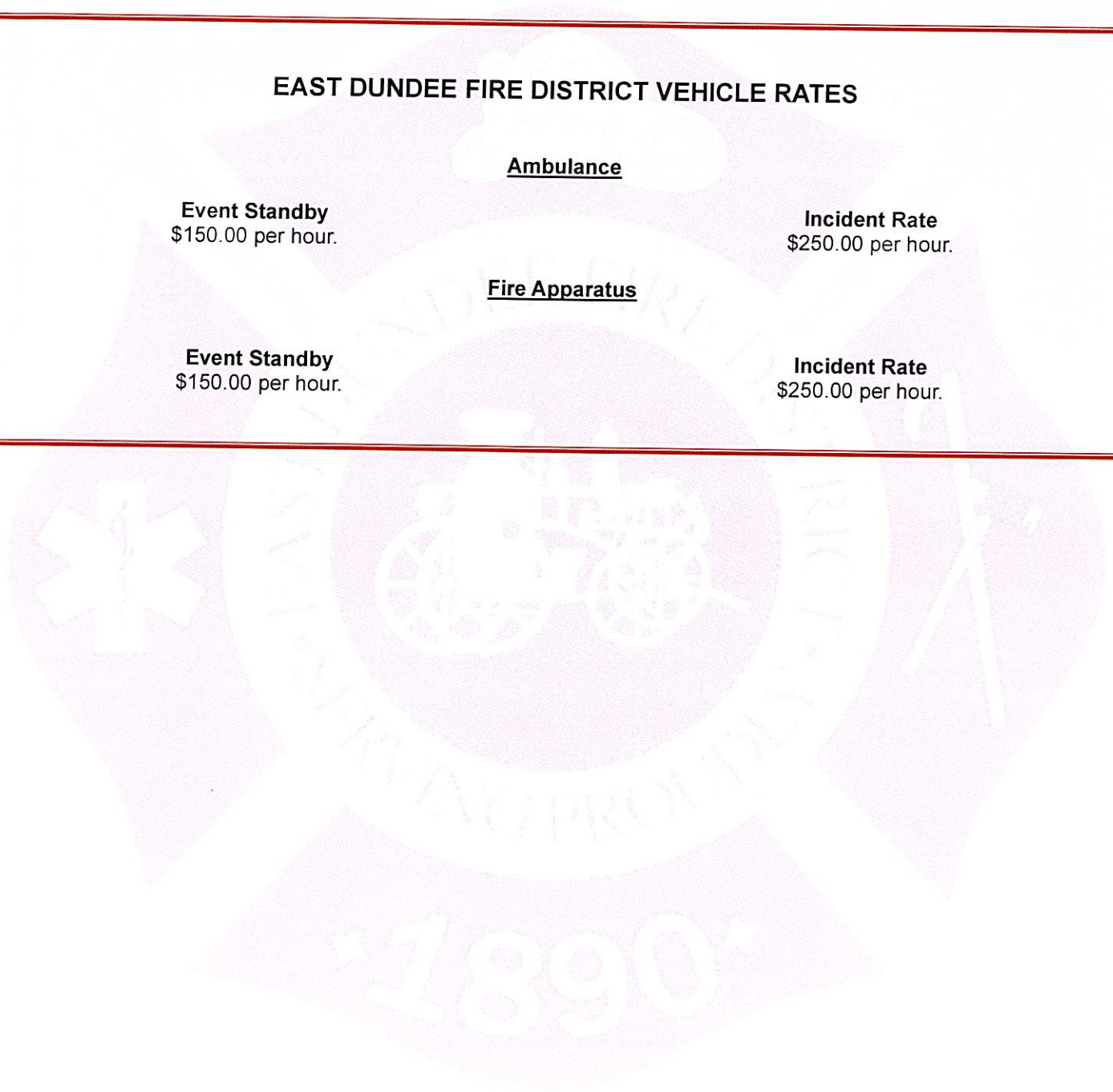
Event Standby
\$150.00 per hour.

Incident Rate
\$250.00 per hour.

Fire Apparatus

Event Standby
\$150.00 per hour.

Incident Rate
\$250.00 per hour.



Attachment [B]
Turning Radii

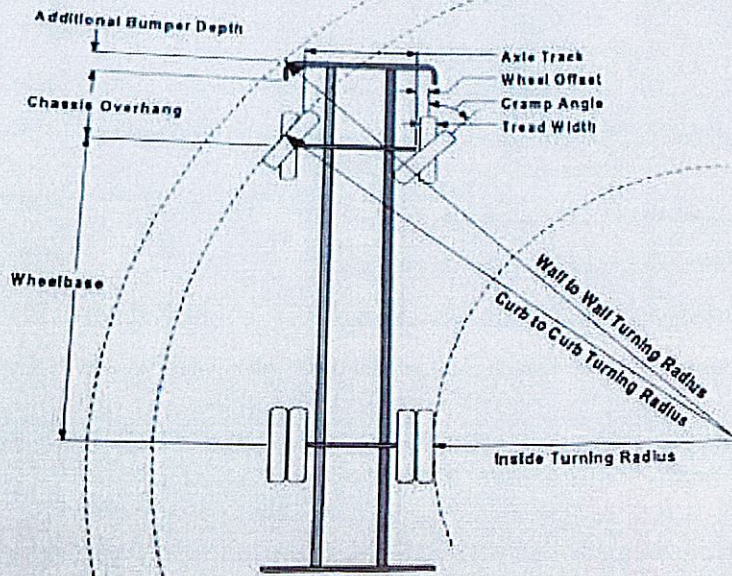


WEST DUNDEES TRUCK TURNING Turning Performance Analysis

9/3/2007

Bid Number: Paragould
Department: 9008

Chassis: Velocity Chassis, PAP/SkyArm/Midmount (Big Block)
Body: Aerial, Platform 100', Alum Body



Parameters:

| | |
|--------------------------|------------|
| Inside Cramp Angle: | 45° |
| Axle Track: | 82.92 in. |
| Wheel Offset: | 4.68 in. |
| Tread Width: | 17.70 in. |
| Chassis Overhang: | 65.99 in. |
| Additional Bumper Depth: | 19.00 in. |
| Front Overhang: | 146.60 in. |
| Wheelbase: | 257.00 in. |

Calculated Turning Radii:

| | |
|---------------|--------------|
| Inside Turn: | 20 ft. 3 in. |
| Curb to Curb: | 36 ft. 8 in. |
| Wall to Wall: | 44 ft. 8 in. |

Comments:

Components

PRIDE # Description

| | | |
|---------------------|---------|---|
| Tires, Front | 0001647 | Tires, Michelin, 425/65R22.50 20 ply XTE2, Hiway Rib |
| Aerial Devices | 0022160 | Aerial, 100' Pierce Platform |
| Wheels, Front | 0019611 | Wheels, Frit, Alum, Alcoa, 22.50" x 12.25" (425/ & 385/) |
| Axle, Front, Custom | 0508849 | Axle, Front, Oshkosh TAK-4, Non Drive, 22,800 lb, Imp/Vel |
| Bumpers | 0123625 | Bumper, 19" extended, Imp/Vel |

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.

WEST DUNDAS TRUCK TRAINING

The kingspin bearing shall be of low friction design and be sealed for life
Toe links that are adjustable for alignment of the wheel to the center of the chassis shall be provided.

The wheel ends must have little to no bump steer when the chassis encounters a hole or obstacle.

The steering linkage shall provide proper steering angles for the inside and outside wheel, based on the vehicle wheelbase.

The axle shall have a third party certified turning angle of 45 degrees. Front discharge, front suction, or aluminum wheels shall not infringe on this cramp angle.

WARRANTY, FRONT NON DRIVE AXLE

The non drive axle system shall have a three (3) year parts and labor warranty. This warranty applies to the independent suspension components only. All steering linkages, pumps etc., are covered under our standard chassis warranty (exception steer gears - see Steering for warranty).

OIL SEALS

Oil seals with viewing window shall be provided on the front axle.

| Yes | No |
|-----|----|
| 2 | 2 |
| 2 | 2 |
| 2 | 2 |