[~~Bracketed stuck out~~] material is that portion being deleted
Underlined material is that portion being added

BILL NO. _____

SUMMARY - An Ordinance to amend Title 13, Chapter 13.04 to revise fire permit and service fees, to revise fire permit requirements and to adopt amendments to the 2012 International Fire Code and referenced standards.

ORDINANCE NO._____
(of Clark County, Nevada)

AN ORDINANCE TO AMEND TITLE 13, CHAPTER 13.04 OF THE CLARK COUNTY CODE TO REVISE FIRE PERMIT AND SERVICE FEES, TO REVISE FIRE PERMIT REQUIREMENTS AND TO ADOPT AMENDMENTS TO THE 2012 INTERNATIONAL FIRE CODE AND REFERENCED STANDARDS; AND PROVIDING FOR OTHER MATTERS PROPERLY RELATING THERETO.

THE BOARD OF COUNTY COMMISSIONERS OF THE COUNTY OF CLARK, STATE OF NEVADA, DOES HEREBY ORDAIN AS FOLLOWS:

SECTION 1. Section 13.04.070 of the Clark County Code is amended to read as follows:

13.04.070 Scope and Administration. A new subsection, designated "113.6 Permit and Service Fee Schedule", is amended to read as follows:

113.6 Permit and Service Fee Schedule. Fees for permits, inspections and other services shall be as set forth in the Permit and Service Fee Schedule, as adopted and amended from time to time by the Commission of Clark County. Permits, plan reviews and other services shall be charged the fees identified in Table 113-A through Table 113-G.2.2.

Table 113-A

Base Fee of [~~$80~~] $90 (No Escalation)	
Permit Name	
Asbestos removal	LP gases (Commercial aggregrate, 30-4,000 gallons)
Aviation Facilities, Aircraft refueling vehicles	Lumber yards and woodworking plants
Battery systems	Magnesium/Magnesium Working
Bond Release	Miscellaneous Combustible Storage
Carnivals/Fairs	Mobile Fueling Vehicle
Cellulose nitrate film	Monitoring Facilities
Combustible Fibers	Mylar Signature
Dry Cleaning Plant (Class IV and V)	Open burning
[~~Emergency responder radio coverage system~~]	Proprietary(self) monitoring
Explosives - Use	Pyroxylin (cellulose nitrate) Plastics Storage
Filming	Radioactive materials
Fire apparatus access road plan	Repair garages and motor vehicle fuel-dispensing station (dispensers)
Fire Hydrants and Associated Supply Piping - Installation	Repair garages and motor vehicle fuel-dispensing station (repair garage)
[~~Fire Pumps~~]	[~~Smoke control system panel(s)~~]
Firewood	[~~Smoke removal system panel(s)~~]
Flame Effects (includes fire performers)	Storage of scrap tires and tire byproducts
Floor Finishing	Tire-rebuilding plants
Fruit and crop ripening	Tire Storage
Fumigation and thermal insecticidal fogging (business location only)	[~~Two-way communication systems~~]
Heliports, Helistops, and Emergency Landing Pads	Waste handling
Liquid- or gas-fueled vehicles /equipment in assembly buildings (per event, not per vehicle)	~~[Water Tanks]~~
LP gases (Single family residence)	Wood pallets
	Wood products

Table 113-B

~~[$80]~~ $90 per count of components	
Permit Name	**Explanation of Escalation**
Access Gates	Escalation per gate (automatic or manual)
Amusement Buildings	Escalation per amusement building
Covered mall buildings - Kiosks	Escalation per kiosk
Explosives - Storage	Escalation per bunker or magazine
Fire Hydrants and Associated Supply Piping - Plan Review	Escalation per hydrant
Hot-work operations	Escalation per location, mobile, fixed, combination
Industrial Ovens	Escalation per oven
Open Flames and Candles	Escalation per each separate type of device/assembly, not per device count, i.e. candles, gelled alcohol flames (sterno), portable stoves, etc.
Pyrotechnic special effects materials – July 4 Sales Booth	Escalation per each booth
Special Activity Lot	Escalation per activity, i.e. Christmas Tree Lot, Pumpkin Patch, Hay-Ride Lot, etc.
Spraying or dipping	Escalation per booth/spray area/dipping area

Table 113-C (a)

Fee of ~~[$80]~~ $90 per Range Unit, as Determined by Volume of Material per Table 113-C(b)	
Permit Name	
Aerosol Products - excess of 500 lbs.	Flammable and combustible liquids - Aboveground Storage/Use
Compressed gas/Medical gas	Hazardous Materials and/or HPM Facilities
Cryogenic Fluids	LP gases (Commercial aggregrate, over 4,000 gallons)
Dry cleaning plants (Classes I, II, IIIA, IIIB)	Organic coatings
Flammable and combustible liquids - Underground Storage/Use	Refrigeration equipment

Table 113-C (b)

PERMIT CALCULATION TABLES - FEE IS ~~[$80]~~ $90 TIMES THE RANGE	
Liquids in Gallons	**Range**
X 3.785 for L	
0	0
>0 - <54	1
54 – <500	2
500 - <946	3
946 - <1,836	4
1,836 - <4500	5
4,500 - <15,180	6
15,180 - <65,681	7
65,681 - <70,000	8
70,000 - <75,000	9
75,000 - <80,000	10
80,000 - <85,000	11
85,000 or greater	12
Solids by Pounds	**Range**
X 0.4536 for kg	
0	0
>0 - <499	1
499 - <1,000	2
1,000 - <2,000	3
2,000 - <3,000	4
3,000 - <4,000	5
4,000 - <5,000	6
5,000 - <10,000	7
10,000 - <11,000	8
11,000 - <12,000	9
12,000 - <13,000	10
13,000 - <14,000	11
14,000 or greater	12
Gases by Cubic Feet	**Range**
X 0.028 for m^3	
0	0
>0 - <199	1
199 - <1,999	2
1,999 - <3,600	3
3,600 - <6,800	4
6,800- <16,400	5
16,400 - <35,000	6
35,000 - <54,000	7
54,000 - <74,000	8
74,000 - <80,000	9
80,000 - <85,000	10

85,000 - <90,000 90,000 or greater	11 12

Table 113-D

SQUARE FOOTAGE TABLES	
FEE IS ~~[$80]~~ $90 TIMES THE RANGE	
SF	**Range**
Permit Threshold – 14,999 sf	1
15,000 sf – 74,999 sf	2
75,000 sf [~~and greater]~~ – 149,999 sf	3
150,000 sf and greater	4
Permit Name	
Aviation Facilities, Aircraft repair hangar	High pile storage
Combustible dust-producing operations	Places of Assembly
Exhibits and trade shows*	Temporary outdoor membrane structures and tents

* A single temporary event permit is allowed for separate rooms that are used for the same event/use, provided the rooms are located on the same floor level and are within 250 feet of each other, as measured along egress routes

Table 113-E

FIREWORKS/PYROTECHNICS	
FEE IS ~~[$80]~~ $90 TIMES THE RANGE	
DEVICE COUNT	Range
0 – 500 device	1
501 – 1,500 devices	2
1,501 [~~1,500]~~ – 2,500 devices	3
2,501 or more devices	4
Permit Name	
Explosives - Fireworks/Pyrotechnics	Pyrotechnic special effects materials - Fireworks/Pyrotechnics

Table 113-F

FIRE PROTECTION SYSTEMS	
FEE IS $90 PLUS DEVICE ESCALATION BELOW	
Permit Type	**Fee**
Carbon Dioxide System	$2.50 per nozzle
Chemical Suppression System	$2.50 per nozzle
Clean Agent Suppression System	$2.50 per nozzle
Emergency Responder Radio Coverage System	$10.00 per antennae

Fire alarm and detection systems, related equipment and dedicated function fire alarm systems (i.e., monitoring)	$1.00 per device (device is defined as any smoke/heat detector, pull station, duct detector, panel, notification appliance, monitor module, addressable relay, and annunciator)
Fire Pump	$450 per fire pump
Fire Sprinkler Head, Water Only	$1.15 per sprinkler head, water only
Foam Suppression System	$90 per monitor/generator
Foam-Water Fire Sprinkler Head	$2.00 per sprinkler head, foam-water
In-building riser	$90 per riser
Smoke Control System Panel	$180 per panel
Smoke Removal System Panel	$180 per panel
Standpipe Hose Valves	$10.00 per hose valve
Two-way Communication System	$5.00 per call-box
Video Detection Camera	$90 per camera
Water Monitor	$90 per monitor
Water Tank	$360 per tank

~~[Table 113 F~~

~~PERMIT FEE VALUATION TABLE~~	
~~FEE IS CALCULATED PER TABLE CALCULATION~~	
~~Total Valuation~~	~~Fee Calculation~~
~~$1 to $500~~	~~$80.00~~
~~$501 to $2,000~~	~~$80.00 for the first $500.00 plus 0.04% for additional valuation, to and including $2,000.00~~
~~$2,001 to $25,000~~	~~$80.60 for the first $2,000.00 plus 0.05% for additional valuation, to and including $25,000.00~~
~~$25,001 to $50,000~~	~~$92.10 for the first $25,000.00 plus 0.375% for additional valuation, to and including $50,000.00~~
~~$50,001 to $100,000~~	~~$185.85 for the first $50,000.00 plus 0.425% for additional valuation, to and including $100,000.00~~
~~$100,001 and up~~	~~$398.35 for the first $100,000.00 plus 0.36% for additional valuation.~~
~~Contract valuations supplied by the applicant shall be utilized by the Fire Code Official. The Fire Code Official reserves the option of requesting appropriate~~	

~~additional documentation of contract valuations supplied by the applicant. Final building permit valuations shall be set by the Fire Code Official.~~	
~~**Permit Name**~~	
~~Fire alarm and detection systems, related equipment and dedicated function fire alarm systems (i.e., monitoring)~~	~~Fire suppression and extinguishing systems (other)~~
~~Fire suppression and extinguishing systems (fire sprinklers)~~	~~Standpipes]~~

Table 113-G

FEES FOR OTHER SERVICES		
SERVICE	**Fee**	**Comments**
Base Fee	$90	Applies to permit fee, hourly rate, etc.
Reinspection fees	~~[$80]~~ $90 per hour, per person	Minimum one hour, to include travel time. Applies to 2nd reinspection for same deficiencies.
Overtime Inspection fees (Outside of regular work hours)	~~[$80]~~ $90 per hour, per person	Minimum three hours, to include travel time. Inspections requested outside of regular business hours.
Overtime Inspection fees (Extension of work day)	~~[$80]~~ $90 per hour, per person	Actual time worked. Minimum one hour, to include travel time.
Same-Day Inspection Fee	~~[$240]~~ $270	Also responsible for inspector's overtime.
Complaint Inspection fee	$90 per hour, per person	Minimum one hour, to include travel time. Applies to 3rd inspection visit, and each subsequent re-inspection visit for the same deficiencies.
~~[Requests for Search of Fire Prevention Records~~	~~$80 per hour~~	~~Minimum $80 per address searched. Includes tasks such as environmental site assessments, outstanding violations, etc.]~~

FEES FOR OTHER SERVICES		
SERVICE	**Fee**	**Comments**
Inspections or service for which no fee is specifically indicated	~~[$80]~~ $90 per hour, per person	Actual time worked. Minimum one hour, to include travel time. Fee is assessed for inspections and services for any building, structure or premise which is not covered by an existing valid [~~building]~~ permit or for other situations where requested by the customer, for work to be conducted at the option of the Building Official.
Dedicated Staff Fee	$150 per hour, per person	For major projects that request that the Director assign one or more inspectors to be available on-site to perform inspections on call, or assign one or more plans reviewers to perform plans review on an expedited fashion. This service is subject to available resources, and requires a preapproved and executed agreement prior to commencement.
Final Map	$0	No charge for signature of final map
Additional plan review fees	~~[$80]~~ $90 per hour	Minimum one hour. Rounded to next quarter-hour. [~~Applies to revisions and 2nd/subsequent resubmittal to address recurring correction comments.]~~
Sprinkler Design Flow Test	~~[$80]~~ $90	To establish basis for fire sprinkler system design
Next Day Plan Review	~~[$160]~~ $180	Based on ~~[$80]~~ $90 permit fee and ~~[$80]~~ $90 expedite fee, applies to certain [~~application]~~ plan types only. Turnaround time shall start on the day of submittal for plans submitted to intake prior to 12:00 PM.

FEES FOR OTHER SERVICES		
SERVICE	**Fee**	**Comments**
Express Plan Review	~~[$160]~~ $180	Based on ~~[$80]~~ $90 permit fee and ~~[$80]~~ $90 expedite fee, applies to certain ~~[application]~~ plan types only. Turnaround is 5 business days. Turnaround time shall start on the day of submittal for plans submitted to intake prior to 12:00 PM.
Over-the-counter Review	~~[$160]~~ $180	Based on ~~[$80]~~ $90 permit fee and ~~[$80]~~ $90 expedite fee, applies to certain ~~[application]~~ plan types only. Applies to reviews conducted while the customer waits (otherwise reverts to Next Day service)
Letters of Agreement and other reviews	~~[$80]~~ $90 per hour	Combustible load-in policy, phased system installation, TCO approval letters, evacuation plans, smoke control/removal recertification reports etc.
Customer-requested reviews	~~[$80]~~ $90 per hour	Reviews requested by customers not otherwise required by codes
Fire Protection Report – tenant improvement/remodel	~~[$80]~~ $90 per hour	Per report
Fire Protection Report – Full facility, alternate methods, TCO	~~[$160]~~ $180, or ~~[$80]~~ $90 per hour, whichever is greater	Per report
Technical Opinion and Report	$180, or $90 per hour, whichever is greater	Per report
Copies (8-1/2 x 11)	$1.00 per page for the first 10 pages, $0.50 each page thereafter of the same document	
Copies (11 x 14)	$2.00 per page	
Copies (D or E size plans)	$4.00 per page	
Certification	$2.00 per page	

FEES FOR OTHER SERVICES		
SERVICE	**Fee**	**Comments**
Research and document assembly	$40.00 per hour, ½ hour minimum billed to the next ½ hour	
CD's	$50.00 per CD, plus $1.00 per each document. Fee includes preparation time and up to ½ hour research	
Returned Check Fee	$25	
Address change	$0	
Renewable permit late fee	~~[$80]~~ $90 per each 30-day period past the renewable due date	
Extension of unexpired construction permit	~~[$40]~~ $45 for each extension of time for an unexpired construction permit	Maximum of 1 extension of additional 180 days permitted if request is made prior to expiration of the permit
Apparatus Standby	$300 per hour	Minimum of 4 hours per apparatus, applied and payable to the Fire Department
Nuisance Alarm Fee	$500	Payable to the Fire Department
Any additional services not specified herein	~~[$80]~~ $90 per hour	
Work Without Permits	Permit fee required for immediate plan review, plus 3x hourly rate for inspection of scope of unpermitted work, per person	Fee whenever any work for which a permit is required has been commenced without first obtaining a permit, or where work has been found to exceed the scope of a valid permit

Table 113-G.1
Service delivery (except Range ~~[Tier]~~ 1 and Range ~~[Tier]~~ 2 temporary operational permits from Table 113-D)

20 business-day plan review fee	1x base total permit fee	Base total permit fee, which includes permit and escalating fees, provide for plan review-turnaround in 20 business days. Turnaround time shall start on the day of submittal for plans submitted to intake prior to 12:00 PM.
10 business-day plan review fee	2x base total permit fee, or base total permit fee plus ~~[$80]~~ $90per hour, whichever is greater	Base total permit fee, which includes permit and escalating fees, provide for plan review-turnaround in 20 business days. This fee provides for 10 business-day turnaround of plan review. Applies when event occurs 10 or more business days up to 19 business days after the day of permit application, or when the applicant requests plan review completion 10 or more business days up to 19 business days after the day of permit application. Turnaround time shall start on the day of submittal for plans submitted to intake prior to 12:00 PM.
3 business-day plan review fee	3x base total permit fee, or 2x base total permit fee plus ~~[$80]~~ $90per hour, whichever is greater	Base total permit fee, which includes permit and escalating fees, provide for plan review-turnaround in 20 business days. This fee provides for 3 business-day turnaround of plan review. Applies when event occurs 3 or more business days up to 9 business days after the day of permit application, or when the applicant requests plan review completion greater than 3 or more business days up to 9 business days after the day of permit application. Turnaround time shall start on the day of submittal for plans submitted to intake prior to 12:00 PM.

Immediate plan review fee	~~[4]~~ 5x base total permit fee, or ~~[3]~~ 4x base total permit fee plus ~~[$80]~~ $90 per hour, whichever is greater	Base total permit fee, which includes permit and escalating fees, provide for plan review-turnaround in 20 business days. This fee provides for immediate turnaround of plan review. Applies when event occurs the day of submittal up to 2 business days after the day of permit application [~~after the day of permit application]~~, or when the applicant requests plan review completion the day of submittal up to 2 business days after the day of permit application. Please note this service is subject to staff availability. Turnaround time shall start on the day of submittal for plans submitted to intake prior to 12:00 PM.
First Resubmittal of initial plans sent back with correction comments	$0 for first resubmittal of initial submittal, at the same service level as the initial submittal	For more aggressive service delivery for the first resubmittal, see Table 113-G.1.1 below. [~~Please note that where table calls for either a multiple of the permit fee or the hourly rate, that the lower of the two fees applies]~~
All revisions of approved plans and all second/subsequent resubmittals	1x base [~~total permit]~~ fee [~~or the hourly rate times plan review time (whichever is less),~~]at the same service level as the initial submittal	For more aggressive service delivery for all revisions and all second/subsequent resubmittals, see see Table 113-G.1.2 below. [~~Please note that where table calls for either a multiple of the permit fee or the hourly rate, that the lower of the two fees applies]~~

Table 113-G.1.1 First Resubmittals

Initial Service	Resubmittal, no charge	Added 1x of [~~either]~~ base [~~permit]~~ Fee [~~or Hourly Rate]~~	Added 2x of [~~either]~~ base [~~permit]~~ Fee [~~or Hourly Rate]~~	Added ~~[3]~~ 4x of [~~either]~~ base ~~[permit]~~ Fee [~~or Hourly Rate]~~
20-day	20-day	10-day	3-day	Immediate
10-day	10-day	3-day	Immediate	NA
3-day	3-day	Immediate	NA	NA
Immediate	Immediate	NA	NA	NA

Table 113-G.1.2 All revisions and second/subsequent resubmittals

Initial Service	Added 1x of [~~either~~] base [~~permit~~] Fee [~~or Hourly Rate~~]	Added 2x of [~~either~~] base [~~permit~~] Fee [~~or Hourly Rate~~]	Added 3x of [~~either~~] base [~~permit~~] Fee [~~or Hourly Rate~~]	Added ~~[3]~~ 5x of [~~either~~] base [~~permit~~] Fee [~~or Hourly Rate~~]
20-day	20-day	10-day	3-day	Immediate
10-day	10-day	3-day	Immediate	NA
3-day	3-day	Immediate	NA	NA
Immediate	Immediate	NA	NA	NA

Table 113-G.2
Service delivery for Range [~~Tier~~] 1 and Range [~~Tier~~] 2 temporary operational permits from Table 113-D

10 business-day plan review fee	1x base total permit fee	Base total permit fee, which includes permit and escalating fees, provide for plan review-turnaround in 10 business days. Turnaround time shall start on the day of submittal for plans submitted to intake prior to 12:00 PM.
5 business-day plan review fee	2x base total permit fee, or base total permit fee plus ~~[$80]~~ $90 per hour, whichever is greater	Base total permit fee, which includes permit and escalating fees, provide for plan review-turnaround in 10 business days. This fee provides for 5 business-day turnaround of plan review. Applies when event occurs 5 or more business days up to 9 business days after the day of permit application, or when the applicant requests plan review completion 5 or more business days up to 9 business days after the day of permit application. Turnaround time shall start on the day of submittal for plans submitted to intake prior to 12:00 PM.

3 business-day plan review fee	3x base total permit fee, or 2x base total permit fee plus ~~[$80]~~ $90 per hour, whichever is greater	Base total permit fee, which includes permit and escalating fees, provide for plan review-turnaround in 10 business days. This fee provides for 3 business-day turnaround of plan review. Applies when event occurs 3 or more business days up to 4 business days after the day of permit application, or when the applicant requests plan review completion greater than 3 or more business days up to 4 business days after the day of permit application. Turnaround time shall start on the day of submittal for plans submitted to intake prior to 12:00 PM.
Immediate plan review fee	~~[4]~~ 5x base total permit fee, or ~~[3]~~ 4x base total permit fee plus ~~[$80]~~ $90 per hour, whichever is greater	Base total permit fee, which includes permit and escalating fees, provide for plan review-turnaround in 10 business days. This fee provides for immediate turnaround of plan review. Applies when event occurs the day of submittal up to 2 business days after the day of permit application [~~after the day of permit application]~~, or when the applicant requests plan review completion the day of submittal up to 2 business days after the day of permit application. Please note this service is subject to staff availability. Turnaround time shall start on the day of submittal for plans submitted to intake prior to 12:00 PM.
First Resubmittal of initial plans sent back with correction comments	$0 for first resubmittal of initial submittal, at the same service level as the initial submittal	For more aggressive service delivery for the first resubmittal, see Table 113-G.2.1 below. [~~Please note that where table calls for either a multiple of the permit fee or the hourly rate, that the lower of the two fees applies]~~
All revisions of approved plans and all second/subsequent resubmittals	1x base [~~total permit~~] fee [~~or the hourly rate times plan review time (whichever is less),]~~ at the same service level as the initial submittal	For more aggressive service delivery for all revisions and all second/subsequent resubmittals, see Table 113-G.2.2 below. [~~Please note that where table calls for either a multiple of the permit fee or the hourly rate, that the lower of the two fees applies]~~

Table 113-G.2.1 First Resubmittals

Initial Service	Resubmittal, no charge	Added 1x of [~~either~~] base [~~permit~~] Fee [~~or Hourly Rate~~]	Added 2x of [~~either~~] base [~~permit~~] Fee [~~or Hourly Rate~~]	Added ~~[3]~~ 4x of [~~either~~] base [~~permit~~] Fee [~~or Hourly Rate~~]
10-day	10-day	5-day	3-day	Immediate
5-day	5-day	3-day	Immediate	NA
3-day	3-day	Immediate	NA	NA
Immediate	Immediate	NA	NA	NA

Table 113-G.2.2 All revisions and second/subsequent resubmittals

Initial Service	Added 1x of [~~either~~] base [~~permit~~] Fee [~~or Hourly Rate~~]	Added 2x of [~~either~~] base [~~permit~~] Fee [~~or Hourly Rate~~]	Added 3x of [~~either~~] base [~~permit~~] Fee [~~or Hourly Rate~~]	Added ~~[3]~~ 5x of [~~either~~] base [~~permit~~] Fee [~~or Hourly Rate~~]
10-day	10-day	5-day	3-day	Immediate
5-day	5-day	3-day	Immediate	NA
3-day	3-day	Immediate	NA	NA
Immediate	Immediate	NA	NA	NA

13.04.070 Scope and Administration. A subsection, designated "105.2 Application" is amended to read as follows:

105.2 Application. Application for a permit required by this code shall be made to the fire code official in such form and detail as prescribed by the fire code official. Applications for permits shall be accompanied by such plans as prescribed by the fire code official

Applications shall be filled out by the owner, contractor, or representative thereof. The application type, service delivery [~~permit service~~] requested, the property description, and applicant information shall be provided on approved forms. The minimum fee indicated on the appropriate application form shall be remitted at time of application. For the full permit fee schedule, see Section 113.

Submittals shall include a minimum of [~~two~~] three copies of plans and supporting documentation, unless the associated guideline allows less than three copies. Such plans and documentation shall show compliance with this code, as amended and adopted in this jurisdiction. All plans and submittal shall be clear, legible and readable.

13.04.090 Fire Service Features. A subsection, designated "507.5.1 Where required", is amended to read as follows:

507.5.1 Where required. Fire hydrants shall be required to be located in accordance with Appendix C, as amended. [~~Where a portion of the facility or building hereafter constructed or moved into or within the jurisdication is more than 400 feet (122 m) from a hydrant on a fire apparatus access road, as measured by an approved route around the exterior of the facility or building, on-site fire hydrants and mains shall be provide where required by the fire code official.~~

~~**Exceptions:**~~

1. ~~For Group R-3 and Group U occupancies, the distance requirement shall be 600 feet (183 m)~~
2. ~~For buildings equipped throughout with an approved automatic sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2, the distance requirement shall be 600 feet (183 m)]~~

13.04.515 Appendix C Fire Hydrant Locations and Distribution. A subsection, designated "Appendix C Fire Hydrant Locations and Distribution" is amended to read as follows:

Appendix C Fire Hydrant Locations and Distribution
Section C101
General

C101.1 Scope. Fire hydrants shall be provided in accordance with this appendix for the protection of buildings, or portions of buildings, as required by Section 507. Design shall comply with the Clark County Uniform Design and Construction Standards (UDACS) for public installations or NFPA 24 for private installations, as applicable.

Section C102
Location

C102.1 Fire hydrant locations. Fire hydrants shall be provided along required fire apparatus access roads

C102.2 Intersections. The spacing of fire hydrants shall start by placing fire hydrants at all intersections.

C102.3 R-3 Occupancies and single-family dwellings built under the IRC. In all residential areas (R-3 occupancies and single-family dwellings built under the IRC only), hydrants shall be spaced not to exceed 500 feet, or 600 feet if all homes are protected by approved automatic fire sprinkler systems.

C102.4 Distance from Hydrant to R-3 Occupancy and single-family dwelling built under the IRC. The maximum distance from a one- or two-family dwelling to a fire hydrant shall not exceed 300 feet, as measured from an approved point on a street or road frontage to a fire hydrant. An approved point is defined as the property line furthest from the hydrant, at a right angle to the street.

C102.5 Commercial and Residential Occupancies other than R-3 and single-family dwelling built under the IRC. In all commercial and industrial areas,

including multi-family R-1 and R-2 occupancies, hydrants shall be spaced not to exceed 300 feet, or 400 feet if all buildings are protected by approved automatic sprinkler systems.

C102.6 Commercial and Residential Occupancies other than R-3 and single-family dwelling built under the IRC , Distance to Dead-End Street. The maximum distance from a hydrant to the end of a dead-end street shall not exceed 200 feet.

C102.7 Distance to a Fire Department Connection (FDC). The maximum distance from a fire hydrant to a fire department connection (FDC) supplying fire sprinklers and/or standpipes shall not exceed 100 feet, as measured by an approved route. An approved route is defined as an unobstructed path of travel on which hose can easily be laid.

C102.8 Spacing Along Major Streets. Where streets are provided with median dividers, or have four or more travel lanes and a traffic count of more than 30,000 vehicles per day, hydrants shall be spaced at a maximum of 1,000 feet along both sides of the street; arranged on an alternating basis at 500–foot intervals.

C102.9 Hydrants Provided with New Water Mains. Where new water mains are extended along streets where hydrants are not needed for protection of structures or similar fire problems, fire hydrants shall be provided at spacing not to exceed 1,000 feet to provide water for transportation hazards

C102.11 Hydrant Clearances from Structures. [~~No fire hydrant shall be located within 6 feet of a driveway, power pole, light standard, or any other obstruction. For wall, fence and planter locations, a perimeter around the hydrant measuring a minimum of 3 feet from its exterior shall be maintained clear of all obstructions at all times.]~~ A 3-foot clear space shall be maintained around the circumference of fire hydrants.

C102.12 Hydrant set-back from curbs. Fire hydrants shall be located 4 feet to 7 feet from the back of curb. Where it is not possible to locate the hydrant a minimum of 4 feet from the back of the curb, or where curbs are not provided, the hydrant shall be protected against vehicular impact in accordance with Section 312.

C102.13 Hydrant Pad. A concrete pad, with minimum dimensions of 3 feet by 3 feet, with a minimum depth of 10 inches, reinforced with a minimum of one (1) No. 4 rebar, shall be provided at each fire hydrant.

Section C103
Approved Fire Hydrants

C103.1 Scope. Hydrants that are proposed for installation in public water systems shall be in accordance with approved fire hydrants as allowed by the water purveyor. Hydrants proposed for installation on private water systems shall be in accordance with approved fire hydrants as allowed by Fire Prevention [~~the Fire Department~~].

Section C104

Supply and Underground Mains

C104.1 Supply points. Two sources of water supply are required whenever 4 or more fire hydrants and/or sprinkler lead-ins are installed on a single system.

C104.2 Sectional Control Valves. Sectional control valves shall be installed so that no more than 2 fire hydrants and/or 2 sprinkler lead-ins can be out of service due to a break in a water main.

C104.3 Minimum Size of Line. Supply lines feeding fire hydrants shall have a minimum diameter of 6 inches, with a dead-end maximum length of 150 feet of 6-inch underground pipe supplying only one hydrant.

C104.4 Pressure Rating. Underground piping shall have a minimum working pressure of 150 psi. Underground piping connected to a fire pump or a Fire Department Connection (FDC) shall have a minimum working pressure of 200 psi.

C104.5 Restraint. All underground water lines shall be restrained in accordance with applicable codes and standards.

C104.6 Listings. All on-site underground water mains and materials shall be U.L. listed, A.W.W.A. compliant, and shall be rated for the appropriate working pressure.

Section C105
Satisfying Fire Flow Requirements
(in Accordance with Appendix B)

C105.1 Minimum number of hydrants. The minimum number of fire hydrants required to meet the fire flow shall be based on a maximum flow of 1,000 gallons per minute per hydrant. All hydrants utilized in providing the fire flow shall be within 750 feet of the structure being protected as measured along the street or approved fire apparatus access road.

> **Exception:** In unincorporated Clark County and the City of Las Vegas the maximum flow per hydrant shall be 1,500 gallons per minute.

C105.2 Hydrants on adjacent properties. Fire hydrants on adjacent properties shall not be considered unless fire apparatus access roads extend between properties and recorded easements are established.

Section C106
Construction Operations

C106.1 Construction Hydrants. Hydrants shall be provided for construction in accordance with Section ~~[1412]~~ 3312.

C106.2 Placing hydrant out of service. If during construction it becomes necessary to close any control valve or place a hydrant out of service, approval shall be obtained from Fire Prevention ~~[the Fire Department]~~ prior to placing the hydrant out of service.

Section C107
Hydrant Markings

C107.1 Hydrant Markings. Hydrants shall be painted safety yellow for public and safety red for private, shall have their location marked in the adjacent fire access lane by a blue reflective pavement marker and shall have red painted curbs 15 feet in each direction. Where curbs are not provided, paint shall be applied along the roadside for 15 feet in each direction. Hydrant markings shall be in accordance with Section 507.

C107.2 Hydrant Marking Maintenance. Hydrant marking shall be maintained in accordance with Section 507.

SECTION 2. If any section of this ordinance or portion thereof is for any reason held invalid or unconstitutional by any court of competent jurisdiction, such holding shall not invalidate the remaining parts of this ordinance.

SECTION 3. Where any section, subsection, sentence, clause or phrase of this ordinance is found to be in conflict with another part of this ordinance or other ordinance of the jurisdiction, the most restrictive provision(s) shall apply.

SECTION 4. This ordinance shall take effect May 2, 2016 and be in force from and after its passage and publication thereof by title only, together with the names of the County Commissioners voting for and against its passage, in a newspaper published in and having a general circulation in Clark County, Nevada, at least once a week for a period of two (2) weeks.

PROPOSED on the _____xth____ day of _____mmmmmm_____, 2015.

PROPOSED BY: Commissioner _____

PASSED on the _____day of _____, 2015.

AYES: _____

_____

_____

_____

_____

_____

NAYS: _____

_____

ABSTAINING: _____

ABSENT: _____

_____

BOARD OF COUNTY COMMISSIONERS
CLARK COUNTY, NEVADA

BY:_____
Chairman

ATTEST:

_____

DIANA ALBA, County Clerk

This ordinance shall be in force and effect from and after the 2nd day of May, 2016.