



City of Bartlett

A. Keith McDonald, Mayor

BOARD OF MAYOR AND ALDERMEN MEETING AGENDA

TUESDAY, AUGUST 14, 2018 - BARTLETT CITY HALL - 7:00 PM

INVOCATION

Opening Prayer by Bo Grace, Waypoint Baptist Church

FUTURE MEETINGS

Historic Preservation Commission, August 20 at 7 p.m.

BPACC Advisory Board, August 21 at 6 p.m.

Bartlett Arts Council, August 21 at 6:30 p.m.

Design Review Commission, August 21 at 6:30 p.m.

Board of Education, August 23 at 7 p.m.

RECOGNITIONS

Shelby County Trustee Fiscal Year End Presentation

Official Business of the Day

MINUTES ACCEPTANCE

Minutes of the July 24, 2018 Board of Mayor and Aldermen Regular Meeting

PUBLIC HEARING

Individuals will have a maximum of three minutes to speak either for or against the item, with a total of 20 minutes for each side.

- I. Resolution 20-18, a resolution approving a special use permit for the sale of used children's clothing in a retail store named "Summer Kids," located at 2831 Bartlett Boulevard.

UNFINISHED BUSINESS

- I Resolution 20-18, a resolution approving a special use permit for the sale of used children's clothing in a retail store named "Summer Kids," located at 2831 Bartlett Boulevard. (Kim Taylor, Director of Planning and Economic Development)

CONSENT AGENDA**1 Authorization to auction surplus property. (Dick Phebus, Director of Finance)**

Eight items have been identified as having a potential auction-value of \$500 or more and will be auctioned on GovDeals.com.

2 Purchase of replacement office computers. (Gary Rikard, Chief of Police)

Request to purchase 26 replacement computers from Hewlett Packard for a total cost of \$27,690. This purchase is from a State contract. Funds are available in Account 123.48123.933.

3 Bid for two automated-side loader refuse trucks. (Mike Adams, Director of Public Works)

Recommend accepting the lowest, qualified bid from Sansom at a total cost of \$475,600.00. Funds are available in Account 122.48122.935.

4 Bid for one knuckleboom trash loader. (Mike Adams, Director of Public Works)

Recommend accepting the lowest bid from Tag Truck at a cost of \$127,454.63. Funds are available in Account 122.48122.935.

5 Contract with Groundwater Institute at the University of Memphis for wellhead protection study and other regional work. (Rick McClanahan, Director of Engineering)

Authorize the Mayor to sign the contract with the Groundwater Institute for the study for a total cost of \$16,100. Funds are available in Account 510.51200.179.

6 Water contract for Open Arms Care Subdivision. (John Horne, Assistant Director of Engineering)

The developer, Facilities Development Group, will pay \$6,264.00 in City Fees. The bond is set at \$21,102.50.

NEW BUSINESS

- 1 Appoint Kenneth Gilmer to City Beautiful Commission. (A. Keith McDonald, Mayor)**
- 2 Resolution 23-18, a resolution to approve a funding policy for The City of Bartlett, Tennessee Retirement (Cash Balance) Plan effective July 1, 2014, as amended. (Dick Phebus, Director of Finance)**
- 3 First Reading of Ordinance 18-06, an ordinance adopting the 2015 Editions of the International Codes, as amended. (Jim Brown, Director of Code Enforcement) The public hearing to be set for September 11, 2018.**

OPEN DISCUSSION**ADJOURNMENT**



City of Bartlett

A. Keith McDonald, Mayor

BOARD OF MAYOR AND ALDERMEN MEETING MINUTES

TUESDAY, JULY 24, 2018 - BARTLETT CITY HALL - 7:00 PM

ATTENDANCE

Mayor A. Keith McDonald: Present, Alderman W.C. Pleasant: Present, Alderman Emily Elliott: Present, Alderman David Parsons: Present, Alderman Bobby Simmons: Present, Vice Mayor Jack Young: Present, Alderman Paula Sedgwick: Present.

INVOCATION

Opening Prayer by Stephen Brannon, Faith Baptist Church

FUTURE MEETINGS

Bartlett Station Commission, August 1 at 7:30 a.m.

City Beautiful Commission, August 2 at 6:30 p.m.

Family Assistance Commission, August 6 at 6 p.m.

Planning Commission, August 6 at 7 p.m.

Parks and Advisory Board, August 9 at 7 p.m.

Bartlett Historical Society, August 13 at 7 p.m.

RECOGNITIONS

The Mayor and Aldermen recognized two Boy Scouts attending the meeting to earn their Citizenship in the Community Merit Badges. Carson Blake and Max Blake are members of Troop 255.

Healthier Bartlett Grant Presentation

Nakia Johnson and Sharon Fryman, on behalf of Healthier Bartlett Committee, presented the City with a \$5,000 grant, which will allow the Committee to work toward becoming a state-certified Healthier Tennessee Community. The Committee plans to use the grant to support its seven initiatives, including nutrition, physical fitness, and smoking cessation. The Healthier Bartlett Committee began as a Leadership Bartlett Class of 2018 Project.

*****Official Business of the Day*****

MINUTES ACCEPTANCE

Minutes of the July 10, 2018 Board of Mayor and Aldermen Regular Meeting

RESULT:	ACCEPTED [UNANIMOUS]
MOVER:	Jack Young, Vice Mayor
SECONDER:	David Parsons, Alderman
AYES:	Pleasant, Elliott, Parsons, Simmons, Young, Sedgwick

Minutes Acceptance: Minutes of Jul 24, 2018 7:00 PM (MINUTES ACCEPTANCE)

PUBLIC HEARING

Individuals will have a maximum of three minutes to speak either for or against the item, with a total of 20 minutes for each side.

- I. Ordinance 18-05, an ordinance to rezone from RS-10 to O-R-1 property on the north side of Yale Road at Highway 70.

No one spoke for or against Ordinance 18-05.

Adjourned at 7:09 p.m.

UNFINISHED BUSINESS

- I **Third Reading of Ordinance 18-05, an ordinance to rezone from RS-10 to O-R-1 property on the north side of Yale Road at Highway 70. (Kim Taylor, Director of Planning and Economic Development)**

Planning Director Kim Taylor explained that this rezoning comes at the request of the future developer, who plans to construct a medical office facility on part of the 8.66 acres. Ms. Taylor noted that the surrounding properties are zoned floodway, RS-10, R-TH, and O-R-1. The Planning Commission forwarded this ordinance to the Board with a favorable recommendation.

RESULT:	APPROVED ON THIRD AND FINAL RE [UNANIMOUS]
MOVER:	Jack Young, Vice Mayor
SECONDER:	W.C. Pleasant, Alderman
AYES:	Pleasant, Elliott, Parsons, Simmons, Young, Sedgwick

CONSENT AGENDA

RESULT:	APPROVED [UNANIMOUS]
MOVER:	Emily Elliott, Alderman
SECONDER:	Jack Young, Vice Mayor
AYES:	Pleasant, Elliott, Parsons, Simmons, Young, Sedgwick

- I **Special event permit for Legends of Stanky Creek Bike Race. (Jim Brown, Director of Code Enforcement)**
The event will be held on Saturday, August 11 and Sunday, August 12 from 7 a.m. to 7 p.m. at Nesbit Park.
- 2 **Renewal of computer-assisted dispatch maintenance agreement. (Gary Rikard, Chief of Police)**
Request to renew annual service agreement from Tritech Software Systems for a total cost of \$67,071.91. Funds are available in Account 123.48123.264.
- 3 **Facility maintenance fee payment to the Tennessee Department for Environment and Conservation for Fiscal Year 2019. (Rick McClanahan, Director of Engineering)**
The City's current number of water system connections is 21,845, at \$1.30 per connection, the City's total is \$28,398.50. Funds are available in Account 510.51200.644.

4 Presentation of Debt Obligation Form Related to General Obligation Capital Outlay Note, Series 2018. (Dick Phebus, Director of Finance)

State of Tennessee Comptroller's Office requires presentation to the Board of Mayor and Aldermen of the Report on Debt Obligation form for General Obligation Capital Outlay Note, Series 2018. The attached form reflects the \$1,355,000 note approved on June 26, 2018.

NEW BUSINESS

I Appoint Candace Ward to the Pension Board (Defined Benefit Plan) and the Retirement Plan Committee (Cash Balance Plan). (A. McDonald, Mayor)

Candace Ward will fill the position vacated by Cathy Lyon. Her term will expire December 31, 2020.

RESULT:	APPROVED [UNANIMOUS]
MOVER:	Emily Elliott, Alderman
SECONDER:	W.C. Pleasant, Alderman
AYES:	Pleasant, Elliott, Parsons, Simmons, Young, Sedgwick

2 Resolution 22-18, a resolution authorizing the City of Bartlett to participate in the Tennessee Municipal League Risk Management Pool's Safety Partners Loss Control Grant Program. (Dick Phebus, Director of Finance)

Mr. Phebus explained that this resolution allows the city to apply for a safety grant from TML. If the City obtains the grant, it will be used to fund 50 percent of the cost for new emergency equipment for three fire trucks and five ambulances.

RESULT:	APPROVED [UNANIMOUS]
MOVER:	Jack Young, Vice Mayor
SECONDER:	W.C. Pleasant, Alderman
AYES:	Pleasant, Elliott, Parsons, Simmons, Young, Sedgwick

OPEN DISCUSSION

Alderman Simmons reminded the public that early voting for the federal and state primary and county general election will run until Saturday, August 27. Election Day is Thursday, August 2.

ADJOURNMENT

Meeting adjourned at 7:17 PM

W.C. Pleasant, Register to the
Board of Mayor and Alderman

A. Keith McDonald
Mayor

Minutes Acceptance: Minutes of Jul 24, 2018 7:00 PM (MINUTES ACCEPTANCE)



Board of Mayor and Aldermen

6400 Stage Road
Bartlett, TN 38134

SCHEDULED

RESOLUTION (ID # 2396)

Meeting: 08/14/18 07:00 PM

Department: Planning and Economic Development

Category: Special use permit

Prepared By: Stefanie McGee

Initiator: Kim Taylor

Sponsors:

DOC ID: 2396

Resolution 20-18, a resolution approving a special use permit for the sale of used children's clothing in a retail store named "Summer Kids," located at 2831 Bartlett Boulevard.

WHEREAS, an application has been made for a Special Use Permit for sale of used children's clothing in the Summer Kids, 2831 Bartlett Boulevard; and

WHEREAS, the Planning Commission reviewed the proposed Special Use Permit for Summer Kids, on July 2, 2018, in accordance with their regulations and recommended APPROVAL of the special use permit; and

WHEREAS, the Board of Mayor and Aldermen held a Public Hearing on August 14, 2018, and approved the Special Use Permit for Summer Kids, 2831 Bartlett Boulevard, to sell used children's clothing in a retail store in Bartlett, subject to the following condition:

- I. The applicant shall obtain Design Review Commission approval prior to installing any signage and making any changes to the exterior storefront.

WHEREAS, the Board of Mayor and Aldermen have determined that this Special Use Permit should be approved;

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF MAYOR AND ALDERMEN OF THE CITY OF BARTLETT, TENNESSEE, that the Special Use Permit for Summer Kids, 2831 Bartlett Boulevard, incorporating the above listed conditions, is approved.

ADOPTED THIS 14TH DAY OF AUGUST, 2018.

W.C. Pleasant, Register to the
Board of Mayor and Aldermen

A. Keith McDonald, Mayor

Attest: _____

Stefanie McGee, City Clerk

May 31, 2018

To Whom It May Concern,

My name is Deborah Mitchell and I'm the owner/operator of Summer Kids, a local option for kids' resale. I strive to provide my customers with name brand clothes in like new condition at a fraction of the retail price. I have been conducting business in Memphis for the past seven and a half years, and look forward to moving my business to Bartlett!

To acquire merchandise, I require my customers to bring their items in freshly laundered in a storage bin or laundry basket. They bring these items into the store during normal business hours, Monday thru Saturday 10am-6pm, and I pay them in cash or store credit for the items that meet my approval. I have not once in the past 7 years had anyone leave anything for me when I'm closed.

Summer Kids is the local (better!) option to the Once Upon A Child franchise. It is not a thrift store, but instead a resale/consignment store where I do not receive donations but instead pay my customers for their like new items.

In addition to the like new merchandise, I also sell new items such as school uniforms, boutique bows, tights, diaper bags & totes. I offer monogram & appliqué services as well as custom vinyl work.

Thank you for your time. I look forward to serving the families of Bartlett!



Deborah Mitchell

Summer Kids, LLC

Attachment: Summer-Kids (2396 : Res 20 -18 SUP Summer Kids 2831 Bartlett Boulevard)

Bartlett Planning and
Economic Development Department
6382 Stage Road, P.O. Box 341148
Bartlett, TN 38184-1148
901-385-6417 FAX 901-385-6419
www.cityofbartlett.org

Bartlett Planning Commission
Application for Special Use Permit Approval

Consultation with the staff is encouraged prior to the completion of this application form.

Requested Special Use resale clothing - children's
Property Address 2831 Bartlett Blvd. Bartlett, TN 38138
Present Zoning _____
Owner/Developer Contact Deborah Mitchell Phone 901-268-3863
Company Name Summer Kids, LLC Fax _____
Address 5266 Summer Ave. Memphis, TN 38122
Email Address deborahmitchell06@yahoo.com
Architect Contact _____ Phone _____
Company Name _____ Fax _____
Address _____
Email Address _____
Engineer Contact _____ Phone _____
Company Name _____ Fax _____
Address _____
Email Address _____

Submitted by Deborah Mitchell Deborah Mitchell 5-31-18
(printed name) (signature) (date)
Email Address deborahmitchell06@yahoo.com Phone 901-268-3863 Fax _____

- _____ Acknowledge (by initials in the blank to the left) that the "Application Instructions: Planning Commission" were obtained and read prior to submitting this application.
- _____ Attach a checked-off "Special Use Permit Checklist" and all items required therein.
- _____ Provide 18-folded ($\pm 10'' \times 13''$) sets of plans with a copy of the signed application attached to each set.
- _____ Provide an electronic PDF file of the plans. Note that an updated electronic file is required when plans are revised. The electronic file shall be labeled with the project name and accurately dated.
- _____ Include a fee with this application (check payable to the City of Bartlett) of \$500.00 for five (5) acres or less, plus \$50.00 per acre (after the first five) to a maximum of \$3,000.00. **The fee is not refundable.**

I, the property owner(s) hereby authorize the filing of this application.

Deborah Mitchell Deborah Mitchell
(print name) (signature)

RECEIVED
(date)

Bartlett Planning and
Economic Development Department
6382 Stage Road, P.O. Box 341148
Bartlett, TN 38184-1148
901-385-6417 FAX 901-385-6419
www.cityofbartlett.org

Special Use Permit Checklist

Plot Plan and Legal Description (each parcel, if more than one)

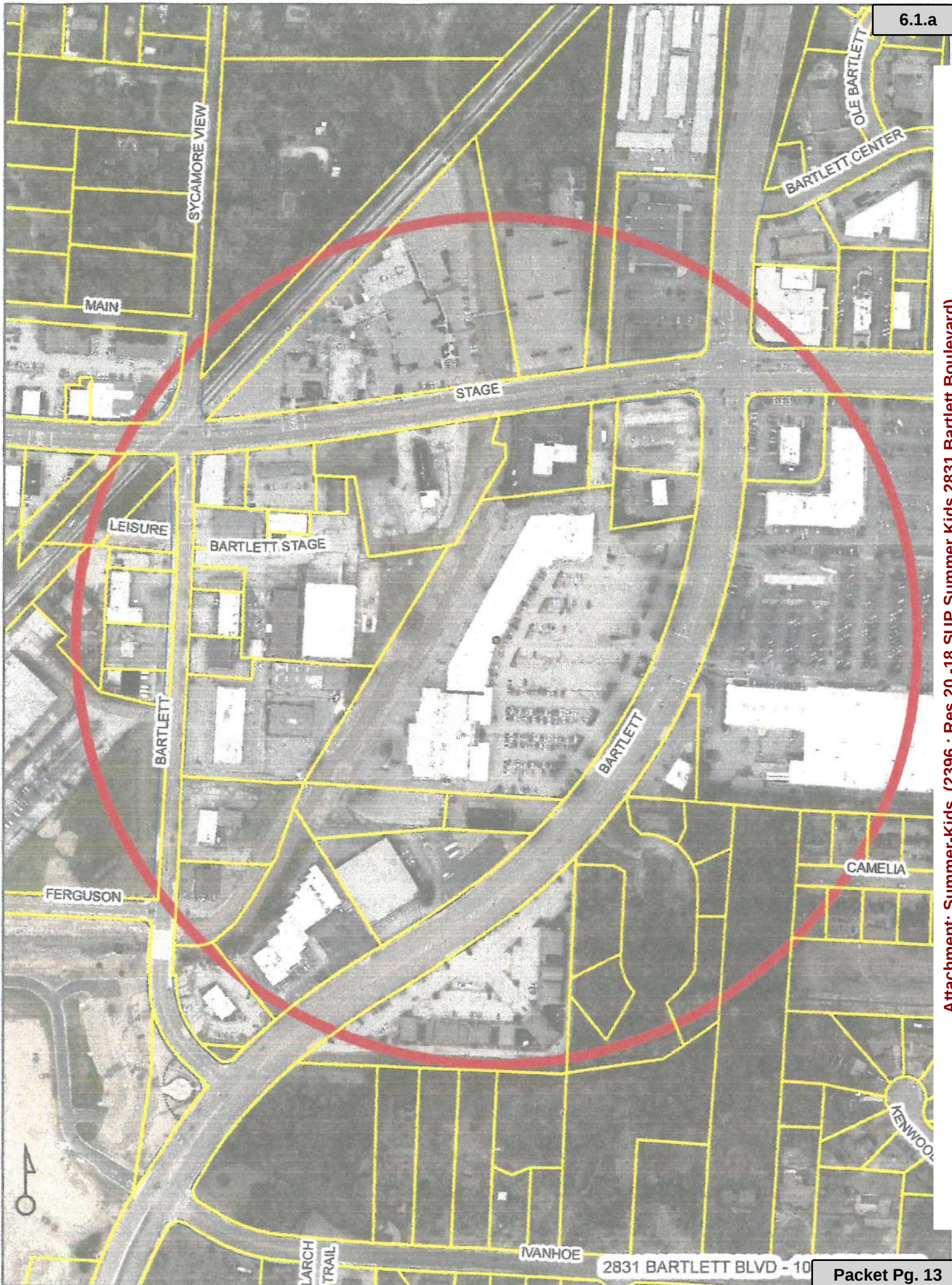
- | | |
|---|--|
| <p>_____ Plot plan, drawn to scale, showing the following information for each parcel (several parcels may be included on one sheet):</p> <p>_____ Adjoining public street rights-of-way</p> <p>_____ Area (acres)</p> <p>_____ Present zoning</p> <p>_____ Requested special use, including purpose (attach statement, one page maximum)</p> <p>_____ Area in which buildings are proposed to be located, showing setback dimensions from line.</p> <p>_____ Drainage</p> <p>_____ Driveways</p> <p>_____ Parking area</p> <p>_____ Buffer planting areas</p> <p>_____ Type and location of any easements</p> <p>_____ If Site Plan application and approval are necessary, conformance to Tree Ordinance is required.</p> | <p>_____ Other pertinent information as required through staff consultation.</p> <p>_____ Legal description (may be attached to plot plan).</p> <p>_____ One (1) PDF file of the plot plan, for display at the Planning Commission meeting.</p> <p>Vicinity Map</p> <p>_____ Vicinity map, drawn to a convenient scale, showing the subject property and all parcels within a 1,000-foot radius. Every parcel shall indicate owner's name and the streets, roads or alleys that each parcel fronts upon.</p> <p>_____ One (1) PDF file of the vicinity map, for display at the Planning Commission meeting.</p> <p>Property Owners</p> <p>_____ List of all property owners within 1,000 feet or a minimum of fifty (50) property owners, whichever results in the greater number of owners. A xerographic copy of the mailing labels may serve as the list.</p> <p>_____ Self-adhesive mailing labels for the list of property owners (two sets).</p> |
|---|--|

INCOMPLETE APPLICATIONS WILL NOT BE PROCESSED

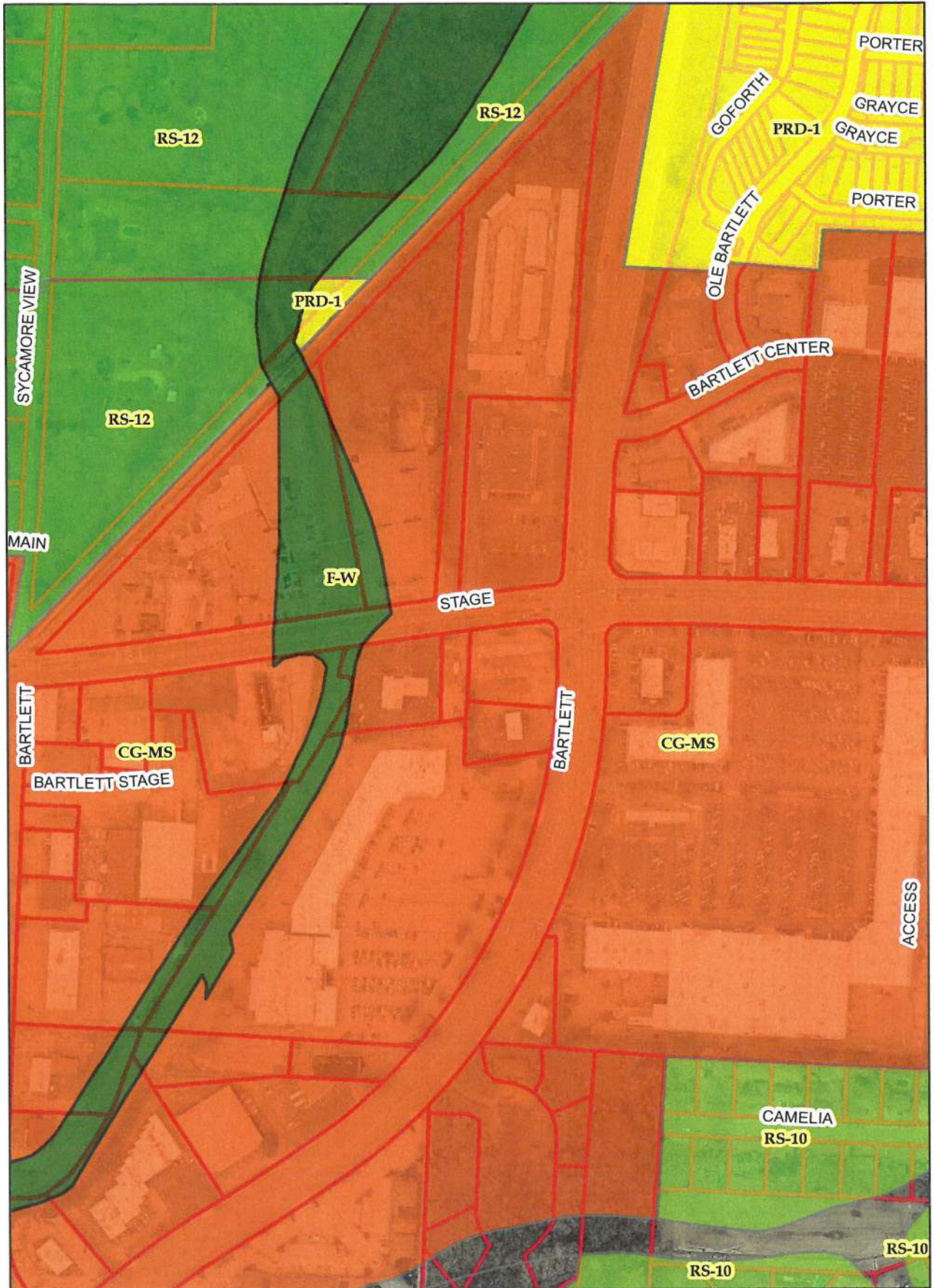
Attachment: Summer-Kids (2396 : Res 20 -18 SUP Summer Kids 2831 Bartlett Boulevard)

FIRST NAME	ADDRESS	CITY	STATE	ZIP
APOSTOLIC PENTECOSTAL TEMPLE	2774 BARTLETT BLVD	BARTLETT	TN	38134
STORAGE TOWNE OF AMERICA LLC	5900 STAGE RD	CORDOVA	TN	38134
CITY OF BARTLETT	0 STAGE RD	MEMPHIS	TN	38134
CITY OF BARTLETT	5868 STAGE RD	BARTLETT	TN	38134
ARCP WG BARTLETT 5950 STAGE TN LLC	5950 STAGE RD	DEERFIELD	IL	38134
COLE AP BARTLETT TN LLC	2890 BARTLETT BLVD	CHINO HILLS	CA	38134
STAGE ROAD CENTER LLC	2889 BARTLETT BLVD	LAWRENCEVILLE	GA	38134
MCHANN AND ANGLIN PROPERTIES LLC	5861 STAGE RD	MEMPHIS	TN	38134
GEMTONE INC	2840 BARTLETT BLVD	TOPEKA	KS	38134
BARLETT TIRE SERVICE INC	0 BARTLETT BLVD	MEMPHIS	TN	38134
DAMRON ENTERPRISES LLC	2798 BARTLETT BLVD	MEMPHIS	TN	38134
AVYAGARI VENKATACHALAM	0 BARTLETT BLVD	BARTLETT	TN	38134
KENNEDY ADAM M & SARAH R	5998 CAMELIA LN	BARTLETT	TN	38134
BADOWSKI DAWN M	6004 CAMELIA LN	MEMPHIS	TN	38134
HARTSFIELD SIDNEY J II & SANDRA E	6012 CAMELIA LN	MEMPHIS	TN	38134
GUZLO RICHARD E JR	2755 BARTLETT BLVD	MEMPHIS	TN	38134
ARMOUR RICHARD L AND JOHN G BINGHAM	2794 BARTLETT BLVD	MEMPHIS	TN	38134
B & R MEMPHIS LLC	2760 BARTLETT BLVD	MEMPHIS	TN	38134
AVYAGARI VENKATACHALAM	2784 BARTLETT BLVD	MEMPHIS	TN	38134
SCHOEP JEREMY & REGINA	5997 CAMELIA LN	MEMPHIS	TN	38134
AVYAGARI VENKATACHALAM	0 BARTLETT BLVD	BARTLETT	TN	38134
CITY OF BARTLETT	0 SURREY HOLLOW CV	MEMPHIS	TN	38134
AVYAGARI VENKATACHALAM	0 BARTLETT BLVD	BARTLETT	TN	38134
CARR JOHN R & CAROL R	2944 SYCAMORE VIEW RC	MEMPHIS	TN	38134
MORAN PHILIP J & CHERYL W	5941 STAGE RD	MEMPHIS	TN	38134
MCHANN AND ANGLIN PROPERTIES LLC	5861 STAGE RD	MEMPHIS	TN	38134
LIVINGSTON JEFFERY	5847 STAGE RD	MEMPHIS	TN	38134
FERGUSON STREET PARTNERS LLC	5786 FERGUSON RD	MEMPHIS	TN	38134
BARTLETT TIRE SERVICE INC	2795 BARTLETT BLVD	MEMPHIS	TN	38134
LEATHERWOOD HAROLD N	0 BARTLETT BLVD	HENDERSONVILLE	TN	38134
NIEWIARA ANDREW Z & STEFANIA	6005 CAMELIA LN	BARTLETT	TN	38134
DAMON-MARCUS COMPANY	5871 STAGE RD	MEMPHIS	TN	38134
GUTHRIE WILLIAM B SR & SANDRA	5813 LEISURE LN	CORDOVA	TN	38134

SBC INVESTMENTS LLC	2860 BARTLETT RD	KNOXVILLE	TN	38134
PRICE FAMILY TRUST (THE)	2740 NEW SYCAMORE VIE BARTLETT		TN	38134
5984 STAGE LLC	5984 STAGE RD	MEMPHIS	TN	38134
SOUTH WILLETT	5811 STAGE RD	MEMPHIS	TN	38134
BARTLETT CITY OF	0 BARTLETT BLVD	BARTLETT	TN	38134
CSX TRANSPORTATION INC	0 STAGE RD	JACKSONVILLE	FL	38134
LINDSEY BONNIE L & CHRISTINE S	2829 BARTLETT RD	MEMPHIS	TN	38134
TART VICKIE S	2821 BARTLETT RD	BARTLETT	TN	38134
GUTHRIE BRADFORD	2845 BARTLETT RD	BARTLETT	TN	38134
LINDSEY BONNIE L & CHRISTIANE S	2835 BARTLETT RD	MEMPHIS	TN	38134
SOUTHBAY PROPERTIES LLC	5800 STAGE RD	MEMPHIS	TN	38134
MCLEMORE KATHRYN E REVOCABLE LIVING	5986 IVANHOE RD	MEMPHIS	TN	38134
STAGE ROAD CENTER LLC	5949 BARTLETT RD	LAWRENCEVILLE	GA	38134
WNI/TENNESSEE LP	6005 STAGE RD	HOUSTON	TX	38134
RICH CHARLES E AND TRACEY P RICH (RS)	2850 BARTLETT RD	MEMPHIS	TN	38134
SOUTHBAY PROPERTIES LLC	2840 BARTLETT RD	MEMPHIS	TN	38134
FILSINGER JONNY & ANNE	2832 BARTLETT RD	ARLINGTON	TN	38134
TIMBS NORMAN & DEBBIE (1/2) AND	2788 BARTLETT RD	MEMPHIS	TN	38134
FRANK AND FRANK PARTNERSHIP	2810 BARTLETT RD	NORTH PALM BEACH	FL	38134
ROSENBLUM STANLEY AND JUDY ROSENBLUM	2745 BARTLETT BLVD	GERMANTOWN	TN	38134
FIRST NATIONAL BK MEMPHIS	5931 STAGE RD	MEMPHIS	TN	38134
LIGHTMAN MICHAEL A	2829 BARTLETT BLVD	MEMPHIS	TN	38134
DAMON-MARCUS COMPANY	5871 STAGE RD	MEMPHIS	TN	38134
BAH MOHAMMED & KADIJATUH	5905 STAGE RD	COLLIERVILLE	TN	38134



Attachment: Summer-Kids (2396 : Res 20 -18 SUP Summer Kids 2831 Bartlett Boulevard)





Board of Mayor and Aldermen

6400 Stage Road
Bartlett, TN 38134

SCHEDULED

AGENDA ITEM

Meeting: 08/14/18 07:00 PM
Department: Finance
Category: Budget
Prepared By: Stefanie McGee
Department Head: Dick Phebus

Authorization to auction surplus property.

Article V Section 4 of the Charter of the City of Bartlett designates the authority to the Mayor to sell surplus property with Board approval for items valued over \$500. The following items have been identified as surplus with a potential value of over \$500 and are eligible to be sold at public auction.

Department	Year	Make/Model	Color	Vehicle ID#
Public Works	1988	Ford F-800	White	IFDPK84H2JVA05131
Public Works	1996	Ford F-800	White	IFDPK87U8GVA20232
Public Works	1988	Ford F-900	White	IFDYL90A5JVA05122
Public Works	2000	Ford F-350	White	IFDWW36F2YED41335
Police	2002	Nissan Altima	Green	IN4AL11D32C205077
Police	2007	Ford Explorer	Red	IFMEU63E07UA57849
Police		Acoustic Guitar	Tan	
Police		18 sets of back seats for 2018 Chargers	Black	

It is our recommendation that these items be approved to be sold at public auction. If approved, the City of Bartlett will advertise the items to be auctioned on the GovDeals website (www.govdeals.com).

Thank you for your consideration of the above item.

**Board of Mayor and Aldermen**

6400 Stage Road
Bartlett, TN 38134

SCHEDULED**AGENDA ITEM**

Meeting: 08/14/18 07:00 PM

Department: Police

Category: Purchase

Prepared By: Penny Medlock

Department Head: Gary Rikard

Purchase of replacement office computers.

Respectfully request to purchase replacement computers for the Bartlett Police Department from Hewlett Packard at a total cost of \$27,690. This is a budget item from 123.48123.933 and funds are available. The computers/monitors are quoted from the State contract off of the HP/NASPO in which the City has signed a "Participating Addendum".



Board of Mayor and Aldermen

6400 Stage Road
Bartlett, TN 38134

SCHEDULED

AGENDA ITEM

Meeting: 08/14/18 07:00 PM
Department: Public Works
Category: Bid
Prepared By: Jessica Vaughan
Department Head: Mike Adams

Bid for two automated-side loader refuse trucks.

On August 8 2017, an ad was placed in *The Daily News*. On August 24, 2017 the City of Bartlett received five bids, which were opened at City Hall.

Bids were received from the following companies:

CMI Equipment Sales	\$499,100.00
CMI Equipment Sales, alternate	\$488,426.00
Sansom	\$475,600.00
Scruggs	\$479,600.00
Summit Truck Group - did not meet specs	\$473,600.00

We recommend the bid be awarded to Sansom for a total price of \$475,600.00.

Funds are available in Account 122.48122.935.

Thank you for your consideration.

Please see attached email from Sansom honoring the pricing from last fiscal year.

BID RESPONSE SHEET

SB FY2018-08-015 AUTOMATED SIDE LOADER REFUSE TRUCK

DUE 8/24/2017 AT 2:00 P.M.

Edward
L. Gray

7.3.a

[illegible]

BID RESPONSE SHEET

SB FY2018-08-015 AUTOMATED SIDE LOADER REFUSE TRUCK

DUE 8/24/2017 AT 2:00 P.M.

COMPANY/BIDDER	EACH	TOTAL BID	NOTES
CMI EQUIPMENT SALES	\$249,550.00	\$499,100.00	WAYNE 31 YD Curbtender
CMI EQUIPMENT SALES, alternate	\$244,213.00	\$488,426.00	BRIDGEPORT 31 YD Ranger
SANSOM	\$237,800.00	\$475,600.00	NEW WAY SIDEWINDER
SCRUGGS	\$239,800.00	\$479,600.00	PETERBILT with CS9000
* SUMMIT TRUCK GROUP	\$236,800.00	\$473,600.00	2013 CRANE CARRIER LET2-26 with CS9000
*tentative award pending review			

Steve Massey

From: Ryan Cherry <ryan@secequip.com>
Sent: Thursday, August 02, 2018 6:22 AM
To: Steve Massey
Subject: Automated pricing

Sansom will honor the pricing from bid for automated side loader refuse collection truck on 8-24-17 for purchase of two units.

Thanks

Ryan Cherry
Sansom Equipment Company
Cell: 615-815-8508

Attachment: Approval Letter from Sansom for Side Loader Pricing 08-6-18 (2390 : Two- Automated Side Loader Refuse Trucks)



Board of Mayor and Aldermen

6400 Stage Road
Bartlett, TN 38134

SCHEDULED

AGENDA ITEM

Meeting: 08/14/18 07:00 PM
Department: Public Works
Category: Bid
Prepared By: Jessica Vaughan
Department Head: Mike Adams

Bid for one knuckleboom trash loader.

On August 31, 2017 an ad was placed in *The Daily News*. On September 21, 2017 the City of Bartlett received four bids, which were opened at City Hall.

Bids were received from the following companies:

River City Hydraulics	\$139,690.00
Sansom Equipment	\$144,251.00
Summit Truck	\$130,097.00
Tag Truck	\$127,454.63

We recommend the bid be awarded to Tag Truck for a total price of \$127,454.63.

Funds are available in Account 122.48122.935.

Thank you for your consideration.

Please see letter from Tag Truck honoring the pricing from last fiscal year.

BID RESPONSE SHEET

SB FY2018-08-024 KNUCKLEBOOM TRASH LOADER

DUE 9/21/2017 AT 2:00 P.M.

PO # 31914

COMPANY/BIDDER	EACH	TOTAL BID	NOTES
RIVER CITY HYDRAULICS	\$139,690.00	279,380.00	FREIGHTLINER/PETERSON
SANSOM EQUIPMENT	\$144,251.00	288,502.00	FREIGHTLINER
SUMMIT TRUCK	\$130,097.00	260,194.00	INTERNATIONAL W/BOOM-UP SENSOR and deduct \$2200 for less warranty-see bid for details
TAG TRUCK	\$127,454.63	<i>Steven Massey</i> 254,909.26	FREIGHTLINER W/BOOM-UP SENSOR
*Tentative Award pending review			



TAG Truck Center
4450 American Way
Memphis, Tennessee 38118

901 345 5633 Main
800 264 0336 Toll Free
901 345 6313 Fax

August 2, 2018

RE: Pricing for New Knuckleboom Order

To Whom it may concern:

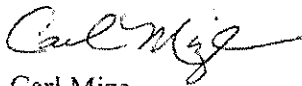
Please use this letter as our guarantee to honor the price from your last year bid (SB#FY2018-08-024) for the purchase of (1) new Knuckleboom Trash Loader.

Your new Knuckleboom Trash Loader will be a Model Year 2020 Freightliner chassis with a Stringfellow body.

If you desire more information, please let me know.

Thank you for this opportunity,

Sincerely,


Carl Mize

Attachment: Approval Letter From TAG for Knuckleboom Pricing 08-6-18 (2391 : Knuckleboom Trash Loader)



**Board of Mayor and Aldermen**

6400 Stage Road
Bartlett, TN 38134

SCHEDULED**AGENDA ITEM**

Meeting: 08/14/18 07:00 PM

Department: Engineering

Category: Agreement

Prepared By: Dena Hathaway

Department Head: Rick McClanahan

Contract with Groundwater Institute at the University of Memphis for wellhead protection study and other regional work.

SERVICE AGREEMENT
Between
The University of Memphis and the City of Bartlett

THIS AGREEMENT (hereinafter, "Agreement"), made and entered into by and between The University of Memphis (hereinafter "University"), a public university within the State of Tennessee, and the City of Bartlett (hereinafter "City").

NOW THEREFORE, in consideration of the mutual promises herein contained, the parties have agreed and do hereby enter into this Agreement according to the provisions set forth herein:

Article 1. For purposes of this Agreement, the following definitions apply:

- 1.1 "CAESER" shall mean the University's Center for Applied Earth Science and Engineering Research (CAESER).
- 1.2 "Service" shall mean any work performed by CAESER in accordance with the scope of work outlined in Exhibit A, which is attached hereto and incorporated herein by reference.

Article 2. Bartlett shall pay University in U.S. Currency, an annual fixed fee amount of \$16,100 for Service performed by University for Bartlett. Payments shall be made as set forth in Article 3 below. Subject to Bartlett's payment of amount due to University as set forth herein, University, by and through CAESER, agrees to use reasonable efforts to complete the Service requested by and on behalf of Bartlett.

Article 3. Bartlett agrees that the payment of the full fixed fee amount for the Service provided by University pursuant to this Agreement and Exhibit A is due within thirty (30) days of execution of this Agreement.

Said payment and acceptance thereof shall not negate or waive the right of University to any other remedy, legal or equitable, to which University may be entitled because of the delinquency of the payment. Payments under the terms of this Agreement shall be made by check payable to:

Name on check: The University of Memphis
 Grants and Contracts Accounting
 P.O. Box 1000, Dept 313
 Memphis, Tennessee 38148-0313

Tax ID #: 62-0648618

Anything herein to the contrary notwithstanding, should this Agreement be subject to early termination pursuant to Article 5 herein, Bartlett shall pay all costs accrued by University as of the effective date of termination.

Article 4. The term of this Agreement shall commence on July 1, 2018, and shall expire on June 30, 2019. The term of this Agreement may be extended by the mutual written consent of the duly authorized representatives of University and Bartlett.

Article 5. In the event that either party shall be in default of any of its obligations under this Agreement and shall fail to remedy such default within thirty (30) days after receipt of written notice thereof, the party not in default shall have the option of canceling this Agreement by giving thirty (30) days written notice of termination to the other party. The Agreement may be terminated by either party for convenience upon thirty (30) days written notice to the other party prior to the effective date of such termination. This Agreement may be terminated without the above-described notice only upon grounds that CAESER has been rendered unusable, CAESER's personnel are not available, the activity has been cancelled due to an act of God, or some other

circumstance outside the control of University. Termination of this Agreement shall not affect the rights and obligations of the parties which shall have accrued prior to termination.

Article 6. Bartlett warrants that no amount shall be paid directly or indirectly to any officer or employee of the University as wages, compensation, or gifts in exchange for acting as officer, agent, employee, sub-contractor, or consultant to Bartlett in connection with any work contemplated or performed relative to this Agreement.

Article 7. Neither party shall have any authority, and neither party shall represent that it has authority, to assume or create any obligation, express or implied, on behalf of the other party, except as provided in this Agreement. Each party is an independent contractor, and this Agreement shall not be construed as creating a partnership, joint venture or employment relationship between the parties or as creating any other form of legal association that would impose liability on one party for the act or failure to act of the other party.

Article 8. This Agreement shall be governed, construed and enforced in accordance with the laws of the State of Tennessee as the site for performance of this Agreement without regard to its conflict of laws. Any and all claims against the State of Tennessee, its officers, agents, and employees in performing any responsibility specifically required under the terms of this Agreement shall be submitted to the Board of Claims or the Claims Commission of the State of Tennessee. Damages recoverable against the State of Tennessee shall be limited to claims paid by the Board of Claims or the Claims Commission pursuant to Tennessee law. If any one or more of the provisions of this Agreement shall be held to be invalid, illegal or unenforceable, the validity, legality or enforceability of the remaining provisions of this Agreement shall not in any way be affected or impaired thereby. The failure of any party hereto to insist upon strict performance of any provision of this Agreement or to exercise any right hereunder will not constitute a waiver of that provision or right. Neither party shall assign their rights or obligations under this Agreement without the prior written consent of the other party. This Agreement shall not be effective until approved by University's President, his official designee or the Vice President for Research. Whenever the consent or approval of the University is required or permitted hereunder, such consent or approval must be given by University's President, his official designee, or the University's Vice President for Research.

Article 9. Any notice or communication required or permitted to be given or made under this Agreement by one of the parties hereto to the other shall be in writing and shall be deemed to have been sufficiently given or made for all purposes if mailed by certified mail or overnight courier service, postage prepaid, return receipt requested, addressed to such other party at its respective address as follows:

If to Bartlett:

Mr. Rick McClanahan
City of Bartlett
6382 Stage Road
Bartlett, TN 38134
(901) 385-5570

If to University with respect to all non-technical matters:

Office of Sponsored Programs
The University of Memphis
315 Administration Building
Memphis, TN 38152
(901) 678-3507 phone
(901) 678-2199 fax

If to University with respect to technical questions:

Dr. Brian Waldron
CAESER
The University of Memphis

900 Wilder Tower
 Memphis, TN 38152
 (901) 678-3283

Article 10. University makes no warranties, express or implied, concerning the results of the Service provided hereunder or of the merchantability or fitness for a particular purpose of such Service. University shall not be liable for any direct, consequential, or other damages suffered by Bartlett or any other party as a result of the conduct of the Service. All warranties made or to be made in connection with the Service shall be made solely by Bartlett thereof and no such warranties shall directly or indirectly by implication obligate in any way University, the Tennessee Board of Regents, the State of Tennessee, or their officers or employees. University shall not be liable for any failure to perform under this Agreement when such failure is due to causes beyond its reasonable control.

Article 11. The parties agree to comply with Titles VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Sections 503/504 of the Rehabilitation Act of 1973, Americans with Disabilities Act of 1990, Executive Order 11,246, and 38 USC Section 4212, along with the related regulations and reporting requirements of each. Neither party shall discriminate against any individual including, but not limited to, employees or applicants for employment and/or students because of race, religion, creed, color, sex, age, disability, national origin, or status as a disabled or Vietnam era veteran. Further, the parties agree to take affirmative action to ensure that applicants are employed and that employees are treated during their employment without regard to their race, religion, creed, color, sex, age, disability, national origin, or status as a disabled or Vietnam Era veteran. Such action includes, but is not limited to, the following: employment, promotion, upgrading, demotion or transfer, recruitment, advertising, layoff or terminations, rates of pay or other forms of compensation, and selection for training, including apprenticeship.

Article 12. Bartlett shall retain all documents and records of payments pertinent to this Agreement for a minimum of three (3) years. Such documents and records are subject to audit, with prior notification, by the University's representative, the State of Tennessee Comptroller's Office, or their designee.

Article 13. The use by Bartlett of University's name or any other names, insignia, symbol(s), or logotypes associated with University or any variant or variants thereof in advertising, publicity, or other promotional activities is expressly prohibited unless required by law or written consent is provided by University's Legal and Marketing Departments.

Article 14. This Agreement constitutes the entire understanding between the parties for the use of University's services, and all other prior negotiations, representations, and understandings are superseded hereby. Neither party was induced to enter into this Agreement by any statements or representations not contained in this Agreement. This Agreement may be modified only by written amendment executed by all parties hereto.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed in duplicate counterpart original by their duly authorized representatives.

THE CITY OF BARTLETT

THE UNIVERSITY OF MEMPHIS

By: _____
Signature

Typed Name

Title

Date

By: _____
Jasbir Dhaliwal
Executive VP for Research and Innovation

Date

Attachment: SKMBT_28318072715150.pdf (2387 : U of M Groundwater Institute 2018-2019 Contract)

EXHIBIT A: SCOPE OF WORK

The Center for Applied Earth Science and Engineering Research (CAESER) will:

1. Continue to perform its mission to engage in applied research excellence, education, and leadership toward sustaining community ground water resources;
2. Maintain the City of Bartlett's Wellhead Protection Plan by:
 - a. updating the protection Zones 1 and 2 as a result of any added or abandoned wells during 2017;
 - b. conducting an inventory of potential contaminant source sites that fall within and directly outside the Zone 1 and 2 areas; and
 - c. accurately locate (x,y,z) production and observation wells.
3. Provide expertise to the City of Bartlett in matters dealing with ground water within the scope and mission of CAESER.
4. Provide input to educational material for the elected leaders and citizens of the City of Bartlett concerning the status of the aquifer, the well head protection program, or aquifer protection.
5. Seek out external funding to support CAESER's mission and support ground water awareness and sustainability.

Regarding development of the wellhead protection document for the City of Bartlett (see task 2), a comprehensive report will be provided to the City of Bartlett in November for review before submittal to the State of Tennessee.

By Aug 1, 2018, the City of Bartlett will need to provide the Center for Applied Earth Science and Engineering Research a list of installed or abandoned wells and any change in pump rates that occurred during 2017.

Timeline and budget

This contract will begin July 1, 2018 and end June 30, 2019. The budget total is \$16,100. These dollars will be used to cover professional services, supplies, and funding for students toward the tasks outlined above.

**Board of Mayor and Aldermen**

6400 Stage Road
Bartlett, TN 38134

SCHEDULED**AGENDA ITEM**

Meeting: 08/14/18 07:00 PM

Department: Engineering

Category: Contract

Prepared By: Erin Campbell

Department Head: John Horne

Water contract for Open Arms Care Subdivision.

WATER CONTRACT
Open Arms Care Subdivision Water Main Extension

THIS AGREEMENT, made and entered into this ____ day of _____ 20____, by and between the City of Bartlett, a Municipal Corporation, Party of the First Part, hereinafter called the CITY, and **Facilities Development Group, LLC**, party of the Second Part, hereinafter called the DEVELOPER.

W I T N E S S E T H:

WHEREAS, the DEVELOPER has commenced with the development of **Open Arms Care Subdivision Water Main Extension** which property is within the sewer service of the CITY, and the CITY and DEVELOPER mutually agree that the CITY will service and maintain certain utility requirements of the DEVELOPMENT on the following terms and conditions: NOW, THEREFORE, for and in consideration of the mutual promises of the parties each to the other, and the further considerations as hereinafter set forth, it is agreed as follows:

I

The DEVELOPER shall forthwith commence construction of water lines and mains in accordance with the plans and Bartlett Standard Water Main specifications for this fire protection addition. Said plans and specifications shall be approved by the City. The DEVELOPER agrees to diligently pursue completion of the system in a workman-like manner when weather and work conditions permit, to maintain a construction schedule compatible with subdivision construction, and to cause its engineer to submit reproducible as-built plans with the valves marked and referenced to property lines.

II

The DEVELOPER agrees to convey to the CITY all necessary easements upon its property to enable the CITY to maintain the systems to which reference has heretofore been made. This shall be accomplished when the as-built information is prepared and before any bond reduction.

III

The DEVELOPER of this site will provide a bond to the City of Bartlett in the form of an acceptable letter of credit, performance and payment bond, cash bond, or certificate of deposit. This bond will be for 100% of the costs of construction of the water lines and fixtures as shown on the construction drawings. The bond will be reduced to 50% of the total amount upon completion of the project. This 50% level of bond will be maintained by the City for one (1) year to cover any problems which may exist within the one (1) year warranty period.

The DEVELOPER will be declared in default of his contract if and when his project has not been completed and satisfactorily tested and approved by the City of Bartlett within 12 months of the date of this contract, at which time the City of Bartlett may call the bond and the project may be completed with those proceeds.

IV

The water extension costs will be determined and approved by the Bartlett City Engineer for bonding based on the Water Plan as designed by the City of Bartlett Utility Engineer.

V

The DEVELOPER is to pay a \$2,000.00 per Water Connection.

C E R T I F I C A T E

The DEVELOPER agrees to warrant all water main construction and material for one (1) year past The date of Final Acceptance and repair or replace any improvements as deemed necessary by the CITY. The responsibility for the proper maintenance and control of additional users of the tie-ins, shall rest with the CITY. In addition, the DEVELOPER agrees to be responsible for the reasonable cost of replacing any lines or other CITY property destroyed or damaged in the subdivision by parties other than the CITY'S employees and further to pay the reasonable cost of ordinary maintenance until the (1) year Warranty Period expires.

VI

**CITY OF BARTLETT WATER EXTENSION CONTRACT
PAYMENT SCHEDULE – THE DEVELOPER WILL PAY TO THE CITY OF
BARTLETT THE FOLLOWING AMOUNTS AS HEREINBEFORE DETAILED FOR:**

Open Arms Care Subdivision Water Main Extension

I. Due at Execution of this Contract and before Construction Begins:

- | | | |
|----|---|-------------------|
| 1. | Water Plant Expansion @ 15% of Water Main Cost
(Water Main Cost = \$26,102.50 | \$3,915.38 |
| 2. | Water System Engineering and
Review Fee @ 6% of Water Main Cost | \$1,566.15 |
| 3 | Water System Inspection Fee (3% of Water Main
Cost or \$300.00 per Lot, whichever is greater | \$783.08 |

TOTAL DUE CITY \$6,264.60

**II. Upon Execution of this Contract and
Before Construction Begins (BOND)**

\$26,102.50

Attachment: Open Arms Care Water Main Extension Contract (2388 : Open Arms Care Subdivision Water Contract)

IN WITNESS WHEREOF, the parties hereto have affixed their hands and seals at

Bartlett, Tennessee, this _____ day of _____ 20_____.

CITY OF BARTLETT

DEVELOPER – Facilities Development Group, LLC

ATTEST:

CITY CLERK

BONDING COMPANY

LETTER OF CREDIT, APPROVED BY CITY ATTORNEY

BY: _____
CITY ENGINEER

DATE APPROVED BY BOARD OF MAYOR AND ALDERMEN: _____

Attachment: Open Arms Care Water Main Extension Contract (2388 : Open Arms Care Subdivision Water Contract)

**Board of Mayor and Aldermen**

6400 Stage Road
Bartlett, TN 38134

SCHEDULED**AGENDA ITEM**

Meeting: 08/14/18 07:00 PM
Department: Board of Mayor and Aldermen
Category: Appointment
Prepared By: Jeanie Underwood
Department Head: A. Keith McDonald

Appoint Kenneth Gilmer to City Beautiful Commission.

Kenneth Gilmer will fill the position vacated by Wayne Ray. His term will expire December 31, 2018.



Board of Mayor and Aldermen

6400 Stage Road
Bartlett, TN 38134

SCHEDULED

RESOLUTION (ID # 2386)

Meeting: 08/14/18 07:00 PM

Department: Finance

Category: Presentation

Prepared By: Dick Phebus

Initiator: Dick Phebus

Sponsors:

DOC ID: 2386 A

Resolution 23-18, a resolution to approve a funding policy for The City of Bartlett, Tennessee Retirement (Cash Balance) Plan effective July 1, 2014, as amended.

WHEREAS, the City of Bartlett, Tennessee (the “City”) has established a contributory retirement plan known as the City of Bartlett, Tennessee Retirement Plan (the “Plan”) effective July 1, 2014; and

WHEREAS, the Plan is a Cash Balance Plan which by its expressed terms provides for a specified funding method of participant accumulation accounts consisting of designated employee and employer contributions based on a percentage of compensation and a designated credited interest rate on such contributions; and

WHEREAS, the City has funded the Plan in accordance with its terms; and

WHEREAS, Tenn. Code Ann. §9-3-504 of the Public Employee Defined Benefit Financial Security Act of 2014 (the “Act”) provides that defined benefit pension systems maintain a written funding policy; and

WHEREAS, working with the actuary and counsel for the Plan the Retirement Plan Committee has formalized a separate funding policy in compliance with Tenn. Code Ann. §9-3-504, reiterating the funding method under the terms and provisions of the Plan; and

WHEREAS, the Retirement Plan Committee recommends to the Board of Mayor and Aldermen adoption of this funding policy to govern funding with respect to the Plan;

NOW, THEREFORE, BE IT HEREBY RESOLVED, by the Board of Mayor and Aldermen that the Funding Policy attached to this Resolution and made a part hereof is and shall be the funding policy of the City of Bartlett Retirement (Cash Balance) Plan, continuing in effect until duly amended.

Adopted this day of August 14, 2018

W. C. Pleasant, Register to the
Board of Mayor and Aldermen

A. Keith McDonald, Mayor

Attest: _____
Stefanie McGee, City Clerk

FUNDING POLICY
of the
CITY OF BARTLETT, TENNESSEE
RETIREMENT (CASH BALANCE) PLAN
EFFECTIVE JULY 1, 2014

Pursuant to Section 3 of Chapter 990 of the Public Acts of 2014 (codified at Tennessee Code Annotated §9-3-504), upon approval by resolution of the Board of Mayor and Aldermen (the “BMA”), the City of Bartlett, Tennessee, (“City”) hereby adopts this policy continuing until amended, as and for its funding policy for its cash balance plan known as the City of Bartlett, Tennessee Retirement Plan (the “Cash Balance Plan”).

Preamble

The intent of this funding policy is to establish a formal methodology for financing the pension obligations accruing under the Cash Balance Plan. It is intended that current assets plus future assets from employer contributions, employee contributions, and investment earnings should be sufficient to finance all benefits provided by the Cash Balance Plan.

This funding policy is intended to reflect a reasonable approach to the funding of the Cash Balance Plan the cost of pension benefits being accrued thereunder. This funding policy recognizes that there will be investment market place volatility and that assumptions related to economic and demographic experience will differ from actual experience. Accordingly, this funding policy is intended to provide flexibility to smooth such volatility and experience in a reasonable, systematic, and financially sound manner. Further, this funding policy is intended to comply with all applicable laws, rules, and regulations of the State of Tennessee and the Federal Government.

Components of this Funding Policy

1. Procurement of actuarial services
2. Actuarial experience study
3. Actuarial valuation

Procurement of Actuarial Services

The Cash Balance Plan shall retain the services of a professional actuarial firm to perform an actuarial experience study, an actuarial valuation, and other necessary actuarial services. The actuarial firm and its member actuaries shall be independent and shall not otherwise be eligible to accrue benefits under the Pension System. The lead actuary of the actuarial engagement team performing the actuarial services shall be a member of the American Academy of Actuaries.

Actuarial Experience Study

An actuarial experience study is only productive on a large participant base. As a relatively newly adopted plan the Cash Balance Plan does not currently have an adequate participant base (and may not for several years in the future) to make a current actuarial experience study relevant or productive. Once the participant base is large enough to make such a study relevant the actuary shall conduct an actuarial experience study at least every ten (10) years. In determining when to commence actuarial experience studies the actuary will be guided by its professional guidelines in the actuary trade and industry.

Actuarial Valuation

Valuation method, frequency, and ADC. An actuarial valuation to determine the Actuarially Determined Contribution (ADC) rate to finance pension obligations of the Cash Balance Plan shall be performed annually. The valuation shall utilize the entry age normal actuarial cost method. Under this method actuarial gains and losses are spread over ten (10) year period. The ADC shall include (1) the normal cost and (2) the unfunded liability cost. The ADC shall be calculated as of a valuation date no more than twelve (12) months prior to the effective date and become applicable on the effective date that is the first day of July no more than twelve (12) months following the valuation date.

The City of Bartlett, Tennessee will fund 100% of the ADC of the Cash Balance Plan.

The budget adopted by City each year, as approved by the BMA, shall include funding of the ADC as provided above.

Asset method. Asset values shall be determined using the market value of assets.

Amortization methodology for actuarial gains and losses. Unfunded liabilities shall be amortized utilizing the level dollar amortization method over a closed period of 10 years.

Actuarial gains and losses may result from (1) the difference between experience versus assumptions, (2) changes in demographic and economic assumptions, and (3) changes in benefit provisions.

Demographic data. The demographic data in an actuarial valuation shall include: (1) all active members, (2) all inactive vested members, (3) all inactive non-vested members with an account balance, and (4) all annuitants (including beneficiary annuitants).

Valuation Interest Rate. The investment earnings assumption in an actuarial valuation shall not be greater than fifty (50) basis points above the rate adopted by the Tennessee consolidated retirement system.

Valuation Mortality: The mortality assumptions in an actuarial valuation utilized for plan years commencing on and after July 1, 2024 shall consider the effect of expected mortality improvements.

Benefit provisions. The actuarial valuation shall include all benefits being accrued by participants of Pension System including, but not limited to retirement, death benefits, and disability. The valuation shall be based on the benefit eligibility and benefit terms as set forth in the Pension System.

Effective Date

This policy shall be effective and shall remain in effect until duly amended or preempted by state law.



Board of Mayor and Aldermen

6400 Stage Road
Bartlett, TN 38134

SCHEDULED

ORDINANCE (ID # 2395)

Meeting: 08/14/18 07:00 PM
Department: Code Enforcement
Category: Amendment
Prepared By: Stefanie McGee
Initiator: Jim Brown
Sponsors:
DOC ID: 2395

Ordinance 18-06, an ordinance adopting the 2015 Editions of the International Codes, as amended.

WHEREAS, the City of Bartlett Charter empowers the City to provide for the location, bulk, occupancy, area, lot, height, construction and materials of all buildings and structures and to inspect all buildings, lands and places as to their condition for health, cleanliness, and safety; and

WHEREAS, Tennessee Code Annotated 68-120-101 dictates that municipalities must maintain a codes that are within seven years of the most current code; and

WHEREAS, the 2015 Edition of the International Codes as amended outlines the minimum standards and requirements necessary to allow the City to provide for the health, safety and cleanliness of all property within the City of Bartlett.

NOW THEREFORE BE IT HEREBY ORDAINED that the Board of Mayor and Aldermen hereby adopt the 2015 Editions of the International Codes and other related codes specified herein, as amended:

- . International Building Code, 2015 Edition
- . International Residential Building Code, 2015 Edition
- . International Fire Code, 2015 Edition
- . International Fuel Gas Code, 2015 Edition
- . International Residential Gas and Mechanical Code, 2015 Edition
- . International Mechanical Code, 2015 Edition
- . International Plumbing Code, 2015 Edition
- . International Residential Plumbing Code, 2015 Edition
- . International Energy Conservation Code, 2015 Edition
- . National Electrical Code, 2014 Edition
- . International Existing Building Code, 2015 Edition
- . ICC A117.1-2017 Accessibility Code
- . International Property Maintenance Code, 2015 Edition

SEVERABILITY - Should any portion or part of this Ordinance be rendered void or unenforceable by any Court of law, statute or other authority, the rest and remainder of this Ordinance shall remain in full force and effect.

EFFECTIVE DATE This Ordinance shall become effective on September 11, 2018, the public welfare requiring it.

First Reading: August 14, 2018
Second Reading: August 28, 2018
Third Reading: September 11, 2018

W. C. Pleasant, Register to
the Board of Mayor and Aldermen

A. Keith McDonald
Mayor

ATTEST: _____
Stefanie McGee
City Clerk

Amendments to the 2015 ICC Fire Code

Amend Section 101.1 Title, by deleting the phrase **[NAME OF JURISDICTION]** and replacing it with the following:

The City of Bartlett, Tennessee

Amend Section 103.2 Appointment, by deleting the word **appointed** in the first sentence and replacing it with the word **designated**.

Amend Section 103.3 Deputies; by deleting the phrase **appoint a Deputy Fire Code Official** in the first sentence and replacing it with the phrase **designate a Deputy Fire Code Official**.

Amend section 105.2.2 Inspection authorized, by deleting it in its entirety and replacing it with the following;

105.2.2 Inspection authorized. Before a new Operational Permit, Business License Application, or Use and Occupancy Permit is approved, the Fire Code Official is authorized to inspect the receptacles, vehicles, buildings, devices, premises, storage spaces or areas to be used to determine compliance with this code or any operational constraints required.

Amendments to the 2015 ICC Fire Code

Amend Section 105.6.32 Open Burning, by deleting the Exception **Recreational Fires.**

Amend section 109.4 Violation Penalties, by deleting it in its entirety and replacing it with the following;

109.4 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 a code violation. Those responsible for violations are subject to a citation and fines as determined by a court of law. Each day that a violation continues after due notice has been served shall be deemed a separate offense.

Amend section 111.4 Failure to comply, by deleting it in its entirety and replacing it with the following;

111.4 Failure to comply. Any person who shall continue any work after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be subject to a citation and/or fines as determined by a court of law.

Amendments to the 2015 ICC Fire Code

Amend Chapter 2 Definitions by adding the following.

Mobile Food Preparation Vehicle: A mobile food preparation vehicle is any vehicle that includes a self-contained or attached trailer kitchen in which food is prepared, processed or stored and used to sell and dispense food to the ultimate consumer. Mobile units must be mobile at all times during operation. The unit must be on wheels (excluding boats) at all times. Any mobile food unit that removes such wheels or becomes stationary must meet Tennessee Department of Health Regulations Chapter 1200-23-1 et seq. in its entirety. This definition does not include pushcarts as regulated by city codes and prohibited from selling potentially hazardous foods by the state department of health, nor vehicles from which only ice cream and other frozen non-hazardous food products are sold, nor vehicles operating under special event permit, nor vehicles intended for private recreation.

Amend section 307.2 Permit required, by inserting **recreational fires,** in front of the words **or a bonfire** at the end of the first sentence.

Add section 307.4.4 Warming fires. **All warming fires must be contained within a metal barrel or drum. Warming fires are not allowed inside structures and cannot be built directly upon the ground. The immediate area around the warming fire container must be clear of combustible materials and the container shall not be closer than fifteen feet from any structure or combustible materials. Warming fires must be fully extinguished at the end of each work day.**

Amendments to the 2015 ICC Fire Code

Amend section 307.5 Attendance by inserting the words warming fires following the words recreational fires in the first sentence.

Amend section 308.1.4 Open-flame cooking devices by deleting Exception #3 in its entirety.

Amend Chapter 3 General Requirements by adding the following sections:

Section 315.7 Outdoor Pallet Storage. Pallets stored outdoors shall comply with Sections 315.7 through 315.7.7. Pallets stored within a building shall be protected in accordance with Chapter 32.

315.7.1 Storage beneath overhead projections from buildings. Where buildings are equipped throughout with an automatic sprinkler system, the outdoor storage of pallets under eaves, canopies or other projections or overhangs are prohibited except where automatic sprinklers are installed under such eaves, canopies or other projections or overhangs.

315.7.2 Distance to lot line. Pallet storage shall not be located within 10 feet (3048 mm) of a lot line.

315.7.3 Storage height. Pallet storage shall not exceed 20 feet (6096 mm) in height.

315.7.4 Pallet pile stability and size. Pallet stacks shall be arranged to form stable piles. Individual pallet piles shall cover an area not greater than 400 square feet (37 m²).

Amendments to the 2015 ICC Fire Code

315.7.5 Pallet types. Pallets shall be all wood, with slatted or solid top or bottom, with metal fasteners, or shall be plastic or composite pallets, listed and labeled in accordance with UL 2335 or FM4996. Plastic pallets shall be both solid and gridded deck, independent of the pallet manufacturing process, type of resin used in fabrication or geometry of the pallet.

315.7.6 Pile separation distances. In addition to the other requirements of this section, pallet stacks and piles shall be separated in accordance with Sections 315.7.6.1 and 315.7.6.2.

Table 315.7.6(1) Separation Distance between Wood Pallet Stacks and Buildings

Wall Construction	Opening Type	Wood Pallet Separation Distance (feet)		
		≤ 50 Pallets	51 to 200 Pallets	> 200 Pallets
Masonry	None	2	2	2
Masonry	Fire-rated glazing with open sprinklers	2	5	20
Masonry	Fire-rated glazing	10	5	20
Masonry	Plain glass with open sprinklers	10	5	20
Noncombustible	None	10	5	20
Wood with open sprinklers	-	10	5	20
Wood	None	15	30	90
Any	Plain glass	15	30	90

For SI: 1 foot = 304.8 mm.

Amendments to the 2015 ICC Fire Code

Table 315.7.6(2) Separation Distance between Plastic Pallet Stacks and Buildings

Wall Construction	Opening Type	Plastic Pallet Separation Distance (feet)		
		≤ 50 Pallets	51 to 200 Pallets	> 200 Pallets
Masonry	None	2	2	2
Masonry	Fire-rated glazing with open sprinklers	10	20	50
Masonry	Fire-rated glazing	15	40	100
Masonry	Plain glass with open sprinklers	15	40	100
Noncombustible	None	15	40	100
Wood with open sprinklers	-	15	40	100
Wood	None	30	80	150
Any	Plain glass	30	80	150

For SI: 1 foot = 304.8 mm.

Table 315.7.6(3) Separation From Other Pallet Piles and On-Site Storage (Wood Pallets)

	Wood Pallet Separation Distance (feet)		
	≤ 50 Pallets	51 to 200 Pallets	> 200 Pallets
Between pallet piles	7.5	15	45
Other on-site storage	7.5	15	45

For SI: 1 foot = 304.8 mm.

Amendments to the 2015 ICC Fire Code

Table 315.7.6(4) Separation From Other Pallet Piles and On-Site Storage (Plastic Pallets)

	Plastic Pallet Separation Distance (feet)		
	≤ 50 Pallets	51 to 200 Pallets	> 200 Pallets
Between pallet piles	15	40	75
Other on-site storage	15	40	75

For SI: 1 foot = 304.8 mm.

315.7.6.1 Building separation. Pallet stacks and piles shall be separated from buildings in accordance with Table 315.7.6(1) for wood pallets and Table 315.7.6(2) for plastic pallets.

315.7.6.2 Separation from other pallets and on-site storage. Pallets shall be separated from other pallet piles and other storage in accordance with Table 315.7.6(3) for wood pallets and Table 315.7.6(4) for plastic pallets.

315.7.7 Prohibited locations. Pallets shall not be stored underneath high-voltage transmission lines, elevated roadways or elevated railways.

Section 319 Mobile Food Preparation Vehicles

319.1 General. Mobile food preparation vehicles that are equipped with appliances that produce smoke or grease-laden vapors shall comply with this section.

319.2 Reserved.

Amendments to the 2015 ICC Fire Code

319.3 Exhaust hood. Cooking equipment that produces grease-laden vapors shall be provided with a kitchen exhaust hood in accordance with Section 609.

319.4 Fire protection. Fire protection shall be provided in accordance with Sections 319.4.1 and 319.4.2.

319.4.1 Fire protection for cooking equipment. Cooking equipment shall be protected by automatic fire extinguishing systems in accordance with Section 904.12 when Section 319.3 applies.

319.4.2 Fire extinguisher. Portable fire extinguishers shall be provided in accordance with Section 906.4 through 906.9.

319.5 Appliance connection to fuel supply piping. Gas cooking appliances shall be secured in place and connected to fuel-supply piping with an appliance connector complying with ANSI Z21.69/CSA 6.16. The connector installation shall be configured in accordance with the manufacturer's installation instructions. Movement of appliances shall be limited by restraining devices installed in accordance with the connector and appliance manufacturers' instructions.

319.6 Cooking oil storage containers. Cooking oil storage containers within mobile food preparation vehicles shall have a maximum aggregate volume not more than 120 gallons (454 L), and shall be stored in such a way as to not be toppled or damaged during transport.

319.7 Cooking oil storage tanks. Cooking oil storage tanks within mobile food preparation vehicles shall comply with Sections 319.7.1 through 319.7.5.2.

Amendments to the 2015 ICC Fire Code

319.7.1 Metallic storage tanks. Metallic cooking oil storage tanks shall be *listed* in accordance with UL 80 or UL 142, and shall be installed in accordance with the tank manufacturer's instructions.

319.7.2 Nonmetallic storage tanks. Nonmetallic cooking oil storage tanks shall be installed in accordance with the tank manufacturer's instructions and shall comply with both of the following:

1. Tanks shall be *listed* for use with cooking oil, including maximum temperature to which the tank will be exposed during use.
2. Tank capacity shall not exceed 200 gallons (757 L) per tank.

319.7.3 Cooking oil storage system components. Metallic and nonmetallic cooking oil storage system components shall include, but are not limited to, piping, connections, fittings, valves, tubing, hose, pumps, vents and other related components used for the transfer of cooking oil.

319.7.4 Design criteria. The design, fabrication and assembly of system components shall be suitable for the working pressures, temperatures and structural stresses to be encountered by the components.

319.7.5 Tank venting. Normal and emergency venting shall be provided for cooking oil storage tanks.

319.7.5.1 Normal vents. Normal vents shall be located above the maximum normal liquid line, and shall have a minimum effective area not smaller than the largest filling or withdrawal connection. Normal vents are not required to vent to the exterior.

Amendments to the 2015 ICC Fire Code

319.7.5.2 Emergency vents. Emergency relief vents shall be located above the maximum normal liquid line, and shall be in the form of a device or devices that will relieve excessive internal pressure caused by an exposure fire. For nonmetallic tanks, the emergency relief vents shall be allowed to be in the form of construction. Emergency vents are not required to discharge to the exterior.

319.8 LP-gas systems. Where LP-gas systems provide fuel for cooking appliances, such systems shall comply with Chapter 61 and Sections 319.8.1 through 319.8.6.

319.8.1 Maximum aggregate volume. The maximum aggregate capacity of LP-gas containers transported on the vehicle and used to fuel cooking appliances only shall not exceed 200 pounds (91 kg) propane capacity.

319.8.2 Protection of container. LP-gas containers installed on the vehicle shall be securely mounted and restrained to prevent movement. LP-gas containers shall be located in accordance with the requirements of NFPA 96, *Ventilation Control and Fire Protection of Commercial Cooking Operations*, Annex B, Mobile and Temporary Food Operations.

319.8.3 LP-gas container construction. LP-gas containers shall be manufactured in compliance with the requirements of NFPA 58.

319.8.4 Protection of system piping. LP-gas system piping, including valves and fittings, shall be adequately protected to prevent tampering, impact damage, and damage from vibration.

319.8.5 LP-gas alarms. A listed LP-gas alarm shall be installed within the vehicle in the vicinity of LP-gas system components, in accordance with the manufacturer's instructions.

Amendments to the 2015 ICC Fire Code

319.8.6 Smoking. Mobile food preparation vehicles using LP-gas systems shall post visible and legible "No Smoking" sign(s) directly adjacent to the LP-gas container(s).

319.9 CNG systems. Where CNG systems provide fuel for cooking appliances, such systems shall comply with Sections 319.9.1 through 319.9.4.

319.9.1 CNG containers supplying only cooking fuel. CNG containers installed solely to provide fuel for cooking purposes shall be in accordance with Sections 319.9.1.1 through 319.9.1.3.

319.9.1.1 Maximum aggregate volume. The maximum aggregate capacity of CNG containers transported on the vehicle shall not exceed 1,300 pounds (590 kg) water capacity.

319.9.1.2 Protection of container. CNG containers shall be securely mounted and restrained to prevent movement. Containers shall not be installed in locations subject to a direct vehicle impact.

319.9.1.3 CNG container construction. CNG containers shall be an NGV-2 cylinder.

319.9.2 CNG containers supplying transportation and cooking fuel. Where CNG containers and systems are used to supply fuel for cooking purposes in addition to being used for transportation fuel, the installation shall be in accordance with NFPA 52.

319.9.3 Protection of system piping. CNG system piping, including valves and fittings, shall be adequately protected to prevent tampering, impact damage and damage from vibration.

319.9.4 Methane alarms. A listed methane gas alarm shall be installed within the vehicle in accordance with manufacturer's instructions.

Amendments to the 2015 ICC Fire Code

319.10 Maintenance. Maintenance of systems on mobile food preparation vehicles shall be in accordance with Sections 319.10.1 through 319.10.3.

319.10.1 Exhaust system. The exhaust system, including hood, grease-removal devices, fans, ducts and other appurtenances, shall be inspected and cleaned in accordance with Section 609.3.

319.10.2 Fire protection systems and devices. Fire protection systems and devices shall be maintained in accordance with Section 901.6.

319.10.3 Fuel gas systems. LP-gas containers installed on the vehicle and fuel-gas piping systems shall be inspected annually by an approved inspection agency or a company that is registered with the U.S. Department of Transportation to requalify LP-gas cylinders, to ensure that system components are free from damage, suitable for the intended service and not subject to leaking. CNG containers shall be inspected every 3 years in a qualified service facility. CNG containers shall not be used past their expiration date as listed on the manufacturer's container label. Upon satisfactory inspection, the approved inspection agency shall affix a tag on the fuel gas system or within the vehicle indicating the name of the inspection agency and the date of satisfactory inspection.

Amend section 405.2 Frequency by adding the following sentence after the word **procedure**;

Occupancies not shown on Table 405.2 which are equipped with a fire alarm as required by this code shall conduct fire drills every six months.

Amendments to the 2015 ICC Fire Code

Amend section 503.2.4 Turning radius by adding the words and shall not be less than a fifty foot radius after the word official.

Amend section 503.2.5 Dead ends by adding the words as required in Appendix D after the word apparatus at the end of the sentence.

Amend section 503.6 Security gates by adding sub-sections 503.6.1 through 503.6.8.

503.6.1 Gated or fenced communities. These communities shall have at least one primary Fire Department access. This gate shall conform to sections 503.6.1 through 503.6.8 and if automated, shall be equipped with primary and secondary overrides.

503.6.2 Automatic gates. All automatic gates on required Fire Department access roadways shall be provided with approved override and power off systems designed to allow fire department access in the case of an emergency. These override systems shall provide controls to open and override timer functions for emergency access and power off equipment for manual operation.

503.6.3 Emergency override. Emergency override of all automatic gate systems shall operate with power on or off. The override system shall consist of a fire access housing/box. The access box shall be red in color and shall have 'Fire Department' or 'Fire Access' in white letters on the faceplate. The faceplate shall be hinged and designed to accept a Knox padlock keyed to the Bartlett Fire Department. The fire access box shall be equipped with an internal switch which will signal the gate to operate when the faceplate is unlocked and/or opened. The fire access box shall be installed so as to be plainly visible from the cab of the approaching emergency vehicle.

Amendments to the 2015 ICC Fire Code

503.6.4 Manual disconnects. All automatic entry gates shall be equipped with Knox padlocked disconnects for use in the event the power supply to the gates fails, or the fire access box switch fails to open the gate.

503.6.5 Sliding gates. For sliding gates, the rear chain attachment point, where the chain attaches to the gate, shall be secured with a Knox padlock to allow access by removal of the lock. If the disconnect is not accessible from the public side, an access entry gate shall be provided to allow access to the gate disconnect. The required entry gate shall also be padlocked with a Knox padlock.

503.6.6 Swing gates. For swing gates, the attachment point where the swing arm connects to the gate shall be equipped with a padlocked disconnect pin. If this disconnect pin cannot be accessed from the public side an access entry shall be required as in 503.6.5.

503.6.7 Additional gates. If additional gates are required, these gates shall conform to the same standards as the primary gate. The Fire Code Official may declare these gates to be secondary and allow them to be padlocked with the approved Knox lock, interlocked with the owner's padlock, rather than be automated.

503.6.8 Locking access gates. Gates in fenced compounds which require Fire department access shall be secured with the approved Knox padlock, interlocked with the owner's lock.

Amend section 506.1 Where required by adding the following after the last sentence.

Key boxes shall be located at or near the front door or such location as determined by the Fire Code Official. Commercial or Industrial structures protected by a monitored automatic fire alarm system, automatic sprinkler system, automatic suppression system, facilities which handle, use, or store

Amendments to the 2015 ICC Fire Code

hazardous materials above the exempt quantities, and other structures deemed necessary by the Fire Code Official shall be required to install and maintain a key box.

Amend section 507.5.1 Where required by deleting the exceptions.

Amend section 507 Fire Protection Water Supplies by adding the following sub-section.

507.5.7 Hydrant access. The Fire Code Official shall require all fences that impede access to hydrants, whether from the street or from the building, to have 48 inch access gates installed at or near the hydrant. To allow proper access to these hydrants, fences shall not be located within a 10-foot radius from the center of the hydrant. Gates, if locked, shall be secured with the approved Knox padlocks keyed to the Bartlett Fire Department.

Amend section 806 Decorative Vegetation in New and Existing Buildings by adding the following sub-section:

806.6 Combustible decorative Materials. Combustible decorative materials such as, but not limited to cotton batting, vegetation, moss, loose or baled straw or hay, vines, split bamboo, leaves, or other similar materials shall not be used in Group A, B, E, I-1, I-2, I-3, I-4, M, R-1, R-2, or R-4 occupancies.

Exceptions:

Amendments to the 2015 ICC Fire Code

1. Fire retardant treated combustible decorative materials shall not be prohibited in Group A, B, E, M, R-1, and R-2 occupancies if those occupancies are protected throughout by an approved automatic sprinkler system.
2. In Group A, B, M, R-1, and R-2 occupancies protected by an approved automatic sprinkler system, treated decorative materials shall be limited to no more than 10% of the aggregate area of walls and ceiling.
3. Group E occupancies shall be allowed 20% of wall area. This shall include treated decorative materials, artwork, and teaching materials combined.

Amend section 901.2 Construction Documents by adding the following after the last sentence in the section.

Construction documents for fire protection systems will be required where alterations to the existing system will involve more than ten (10) sprinkler heads.

Amend section 903.4 Sprinkler system supervision and alarms by adding the following to the end of the first paragraph following the word unit:
and secured (padlocked) in the normal/open position.

Amend section 903.4 Sprinkler system supervision and alarms by adding the following exception:

8. Valves on existing systems that were not previously required to be supervised shall be secured (padlocked) in the normal/open position.

Amendments to the 2015 ICC Fire Code

Amend section 903.4.3 Floor control valves by deleting the words high rise buildings at the end of the sentence and replacing them with the words all buildings two or more stories in height.

Amend section 912 Fire Department Connections by adding the following sub-section:

912.8 Proximity to Fire Hydrants. Fire department connections shall be located not more than one hundred (100) feet from an approved fire hydrant.

Amend section 913.4 Valve supervision by deleting the entire section and replacing it with the following:

913.4 Valve Supervision. Where provided, the fire pump suction, discharge and bypass valves, and the isolation valves on the backflow prevention device or assembly shall be electrically supervised and secured (padlocked) in the normal/open position.

Amend section 1001 Administration by adding the following sub-section:

1001.3 Other Standards. When this code does not address requirements pertaining to an unusual or uncommon aspect of a means of egress system, NFPA 101 shall be used as an acceptable standard.

Amend section 1031 Maintenance of the Means of Egress by adding the following sub-section:

1031.10 Testing of Emergency Lighting. A functional test shall be conducted on every required emergency light system at 30 day intervals

Amendments to the 2015 ICC Fire Code

for a minimum of 30 seconds. An annual test shall be conducted for a minimum duration of 1 ½ hours. Equipment shall be fully operational for the duration of the test. Equipment that fails to operate fully during the test shall be repaired or replaced. Written records of testing shall be kept by the owner for inspection by the Fire Code Official.

Amend section 3316 Motorized Construction Equipment by adding the following condition:

#5 Equipment shall be located so that exhaust will not be discharged into an existing air intake, window, or doorway of an occupied space.

Amend section 5704.1 by adding the following sub-section:

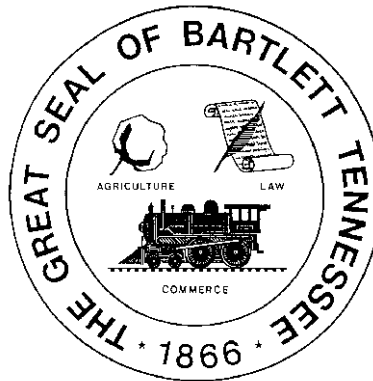
5704.1.1 Storage of motorized vehicles and equipment. Gasoline powered equipment, such as vehicles, motorcycles, lawn equipment, etc. shall not be stored in any building unless the room or space has been approved for such use.

Amend section 6103.2.1 Portable Containers by adding the following sub-section:

6103.2.1.8 Flame Effects before a Proximate Audience. The use of LP-gas as part of a flame effect before a proximate audience shall comply with this chapter and NFPA 160. It shall also be approved by the Fire Code Official.

Amendments to the 2015 ICC Fire Code

7-101. Fire Code Adopted. Pursuant to authority granted by Tennessee Code Annotated, 6-54-501 through 6-54-506, and for the purpose of prescribing regulations governing conditions hazardous to life and property from fire or explosion, the International Fire Code, 2015 edition with all appendices and city amendments, (referenced standards shall be the most current published editions), as recommended by the International Code Council, is hereby adopted by reference and included as part of this code



**FUEL GAS CODE AMENDMENTS
TO THE

2015
INTERNATIONAL
FUEL GAS
CODE**

Attachment: 2015 Fuel Gas Code Amendments (2395 : Ord 18-06, international code adoption)

FUEL GAS CODE

When adopting the 2015 International Fuel Gas Code, the following Appendices will also be adopted: A, B, & C.

AMEND Section 101.1 as follows:**101.1 Title**

These regulations shall be known as the Building Code of The City of Bartlett, hereafter referred to as “this code.”

ADD Section 101.1.1 as follows:**101.1.1 References**

All references to the International Code Council Electrical Code are to be replaced with the 2014 National Electrical Code.

ADD 301.3.1 as follows:**301.3.1 Approval Installation of Listed or Unlisted Equipment**

All listed appliances and equipment shall be installed in accordance with their listings. All unlisted appliances and equipment shall be installed in accordance with the manufacturer’s instructions, the gas codes, and the gas official. All appliances shall be equipped with a gas appliance pressure regulator which will satisfactorily limit the gas supply pressure, unless not required by the appliances listing.

ADD 301.12.1 as follows:**301.12.1 Seismic Information for Gas Piping**

A seismic letter will be required for gas piping installation.

ADD Section 301.15.1 and 301.15.2 as follows:**301.15.1**

Gas piping inside and building shall not be run through an air duct, clothes chute, chimney or vent, ventilating duct dumbwaiter or elevator shaft where the gas official finds that it is impossible to avoid installing gas piping through or in building duct system for heat, ventilating or air conditioning system, the gas pipe may be installed in a casing of non-combustible, rigid gas tight material.

301.15.2

Gas piping shall be prohibited in plenum spaces unless such spaces are accessible. This provision shall not apply to gas piping in non-plenum concealed locations. Shut off valves, union shut off valves, or unions for gas piping shall be prohibited in all concealed locations and all spaces used as plenums.

FUEL GAS CODE

ADD 303.3.1 as follows:**303.3.1**

No unvented decorative appliances shall be installed in a bedroom. Gas fired unvented heaters are not allowed to be installed in bedrooms, bathrooms or rooms generally kept closed.

ADD Section 305.4.1 as follows:**305.4.1 Gas Utilization Equipment**

Gas utilization equipment may be installed in a repair garage when there is no dispensing or transferring of liquefied petroleum gas or other flammable liquids, provided all burners, burner flames, and burner ignition devices are located not less than 18 inches above the floor, and provided continuous mechanical ventilation is supplied at a rate of not less than one cubic foot per minute per square foot of floor area. For installations in below-grade areas, an approved means shall be provided for introducing an equal amount of outdoor air. The equipment and the ventilation system shall be interlocked so the equipment will not operate unless the ventilation system is in operation. Gas utilization equipment shall be located or protected so it is not subject to physical damage by a moving vehicle.

ADD Section 306.1 #1 as follows:**306.1 #1-Access and Service Space**

Permanent access ladder, inside stairway, or pulldown stairs (NO SCUTTLE HOLES) shall be used for access.

ADD Section 306.1 #2 as follows:**306.1 #2-Accessibility**

Units installed above drop ceilings, equipment height of 10 feet or more must have a work platform on service side of equipment.

ADD Section 306.3.2 as follows:**306.3.2 Accessibility**

Every appliance shall be located so that it will be accessible for operation and servicing for attic installations, the passageway and servicing area adjacent to the appliance shall be floored. Such attics shall have flooring under and around such water heaters or gas appliances and shall be provided with a continuous, floored passageway at least 2 feet wide. When mechanical equipment is to be installed in the attic and only an interior access is to be provided, permanent access is required.

ADD 306.5 #8 as follows:**306.5 #8 Appliances on Roofs or Elevated Structures**

The inside means of access shall be a permanent, or foldaway, inside stairway or ladder, terminating in an enclosure, scuttle or trap door. Such scuttles or trap doors shall be at least 24 inches BY 24 inches in size, shall open easily and safely under all conditions, especially snow, and shall be constructed so as to permit access from the roof side unless deliberately locked on the inside. At least 6 feet of clearance shall be available between the access opening and the edge of the roof or similar hazard, or rigidly fixed rails or guards at least 42 inches in height shall be provided on the exposed side, parapets or other building structure at least 42 inches in height may be utilized in lieu of guards or rails.

ADD Section 401.1.2 as follows:**401.1.2 Medical Gas Systems**

Medical gas systems shall be installed in accordance with the requirements of NFPA 99C gas and vacuum systems.

ADD Section 401.5 #1 as follows:**401.5 #1 Identification/Labeling**

All indoor and outdoor piping shall be labeled with amount of pressure within the pipe (2 psi or 5 psi).

AMEND Section 402.3 as follows:

4. When the gas pressure is 0.5 pounds per square inch or less, all consumer gas pipe from the point of delivery of the first branch in the house piping shall not be less than one inch in diameter. The minimum size of pipe outlets shall be ½ inch. The maximum length of ½ inch pipe shall be one foot in length.

5. In CSST piping systems, ½ inch tubing allowed if sized to manufacturer specification.

ADD Section 402.6 #7 as follows:

7. All gas piping up to 2 psi can be screwed or welded. All gas piping 5 pounds or greater shall be welded. All gas piping over 2 inches shall be welded.

Exception: Three fittings at cut off valve to regulator on 5 pound systems.

ADD Section 403.1.1 as follows:**403.1.1**

Copper, brass, and aluminum tubing or piping shall be used only for specialty use on natural gas with prior approval by the Code Official.

FUEL GAS CODE

ADD Section 403.10.1 #1 as follows:

PIPE JOINTS-The use of welded steel fittings either shop, field fabricated or manufactured commercially for connecting pipe and fittings by welding is permissible. Two pound gas may be screwed or welded. Five pound gas shall be welded.

ADD 403.10.4 #10 as follows:**403.10.4 #10**

Fittings (except stopcocks and valves) shall be malleable iron or steel when used with steel or wrought iron pipe and shall be copper or brass when used with copper or brass pipe or tubing. The use of welded steel fittings, either shop or field fabricated and connecting of pipe and fittings by welding is permissible.

ADD 403.10.4 #11 as follows:**403.10.4 #11**

No bushings allowed on interior gas piping unless approved by manufacturer of equipment being installed.

ADD 404.5.1 as follows:**404.5.1 Trailer Park Piping**

Where information is not available on the location of the trailer supply connection, the gas riser to each trailer site should be placed in the rear one third section of the site and not less than 18' from the roadside wall of the trailer. It shall be located and protected or supported so as to minimize the likelihood of damage by moving vehicles. When the gas pressure at the terminal of the gas riser at each trailer site is .5 psig or less, the minimum size of the gas piping shall be 1" for other than undiluted liquefied petroleum gases.

ADD 404.5.2 as follows:**404.5.2 Connection of Trailer**

Piping shall not be installed underground beneath manufactured homes or house trailers. Trailers shall be connected to the gas piping system with rigid pipe or listed connections of adequate size and installed so as to be protected against physical damage.

ADD Section 404.6.1 as follows:**404.6.1 Piping in Solid Floors**

No threaded connectors may be used on piping in solid floors.

ADD Section 404.9.1 as follows:**404.9.1**

All gas piping exposed to outside weather shall be protected with approved paint coatings to prevent corrosion.

FUEL GAS CODE

ADD Section 404.11.3 as follows:**404.11.3 Corrosion Protection**

Dielectric unions shall be installed at each end of underground piping. Anode bags shall be installed on all metallic piping underground.

ADD Section 404.14.1 as follows:**404.14.1**

Installation of buried underground piping beneath building floor slab shall be subject to prior approval of the administrative authority.

DELETE Section 406.4.1 Entirely and Substitute the following:**406.4.1 Method of Testing**

Low pressure (not in excess of 2 psi gauge) gas piping shall withstand a pressure of 30 psig for a period of not less than 10 minutes without showing any drop in pressure. All high pressure gas piping must have a minimum of 100 psig test. Higher pressure (medical gas) must stand at least 1.5 times normal working pressure for a period of 24 hours without showing any drop in pressure. Medical gas testing to conform to NFPA 99C.

ADD Section 406.4.3 as follows:**406.4.3 Testing of Medical Gas Systems**

Medical gas systems shall be installed in accordance with the requirements of NFPA 99C and vacuum systems.

ADD Section 409.1.4 as follows:**409.1.4 Location of Shut-Off Valves**

Outlets for individual manufactured homes or trailers shall be provided with a readily accessible manual shut-off valve located outdoors at the trailer. Trailers shall be connected to the gas piping system with rigid pipe or listed connections for adequate size and installed so as to be protected against physical damage.

ADD 409.5.1 #1 as follows:**409.5.1 #1 Fireplace Logs and Starters**

All fireplace logs and starters must be installed according to their listings and have a readily accessible manual shutoff valve within reach of and extraneous to the fireplace. A manual main shutoff valve shall be installed ahead of all controls including the pilot gas valve.

ADD 411.1 #9 and #10 as follows:**411.1-Appliance Fuel Connectors**

9. Flexible connectors used outdoors shall be listed for outdoor use. Flexible connectors used in fireplace fireboxes shall be approved for such use or be stainless steel.

10. Connectors shall have an overall length not to exceed 18 inches except for range and domestic clothes dryer connectors, which shall not exceed 3 feet in length. Connectors shall not be concealed within, or extended through walls, floors, partitions, ceilings or appliance housing. A shutoff valve not less than the nominal size of the connector shall be installed ahead of the connector in accordance with Section 409.5. Connectors shall be sized to provide the total demand of the connected appliance.

ADD 501.10.1 as follows:**501.10.1 Room Exhausters and Appliance Blowers**

A fan or blower shall not be discharged into any vent, chimney or vent connector into which a gas appliance is vented by natural draft.

DELETE Section 503.10.2.3 Items 2 thru 5 as follows:**503.10.2.3 Residential Type Appliance Connectors**

Where vent connectors for residential type appliances are not installed in attic or other unconditioned spaces, connectors for listed appliances having draft hoods and for appliances having draft hoods and equipped with listed conversion burners shall be one of the following:

1. Type B or Type L Vent Material
2. Delete
3. Delete
4. Delete
5. Delete
6. A Listed Vent Connector

Vent connectors shall not be covered with insulation.

Exception: Listed insulated vent connectors shall be installed according to the terms of their listing.

ADD Section 603.2 as follows:**603.2 Log Starters**

Log starters shall have support installed on end of starter.

FUEL GAS CODE**ADD Section 618.2.1 as follows:****618.2.1 Furnaces Use with Refrigeration Systems and Blowers**

The furnace shall be installed on the discharge side of the blower. The furnace shall be installed parallel with or ahead of the refrigeration coil unless listed for other locations. If the refrigerating coil is installed in the discharge duct from the furnace, the blower shall be of a size and capacity to supply the required amount of air through the furnace to maintain normal temperature rise while operating against the total static pressure existing in the system. Auxiliary drain pans shall be installed under all evaporator coils or vertical furnaces installed in attic spaces.

ADD Section 624.1.2 Water Heaters as follows:**624.1.2 Prohibited Installations**

Water heaters, with the exception of those having direct vent systems, shall not be installed in bathrooms and bedrooms or in a closet with access only through a bedroom or bathroom. However, water heaters of the automatic storage type may be installed as a replacement in a bathroom, when specifically authorized by the gas official, providing they are properly vented and are supplied with adequate combustion air.

Exception: When a closet, having a weather stripped solid door an approved door closing device, has been designed exclusively for the water heater and where all air for combustion and ventilation is supplied from outdoors.

ADD Section 624.1.3 thru 624.1.9.4 as follows:**624.1.3 Water Heater Location**

Water heaters shall be located as close as practical to the vent. They should be so located as to provide short runs of water piping to fixtures.

624.1.4

All water heaters installed in remote locations such as suspended ceiling spaces or in attics shall rest in a galvanized steel or other metal pan of equal corrosive resistance having a thickness at least equal to 0.0276 inch (0.7 mm) galvanized sheet steel. Pans shall have a minimum depth of 6 inches. All drain pans shall have a 1 inch drain. All gas water heater emergency plans shall be installed as per manufacturer listing.

624.1.5 Installation in Garages Prohibited

Gas fired water heaters or central furnaces shall not be installed in residential garages. Combustion air ducts shall not terminate in a residential garage. Doors in garages, accessing gas fired appliances in closets, furnace rooms etc. shall be weather stripped to provide an air tight seal which will prevent gasoline vapors from entering the appliance closet or room. Appliances shall be installed a minimum of 18 inches above ground level.

624.1.6 Connection

Water heaters shall be connected in a manner to permit observation, maintenance and servicing.

FUEL GAS CODE**624.1.7 Closed Systems**

Water heaters shall not be installed in a closed system of water piping unless a water pressure relief valve is provided.

624.1.8 Temperature, Pressure and Vacuum Relief Valves**624.1.8.1**

The installation and adjustment of the temperature, pressure and vacuum valves or combination thereof, and automatic gas shutoff valves shall be in accordance with the requirements of ANSI Z21.10.1 and ANSI Z21.10.3 or with the manufacturer's instructions accompanying such devices.

624.1.8.2

A water heater or tank that has the cold water supply entering at the bottom of the tank shall have a listed vacuum relief valve installed above the top of the tank so as to prevent siphoning of the tank.

624.1.9 Circulation or Tank Types**624.1.9.1**

The method of connecting a circulating water heater to the tank shall assure proper circulation of water through the heater, and permit a safe and useful temperature of water to be drawn from the tank.

624.1.9.2

The size of the water circulating piping, in general, shall conform with the size of the water connection of the heater.

624.1.9.3

A suitable water valve or cock, through which sediment may be drawn off or the tank emptied, shall be installed at the bottom of the tank.

624.1.9.4

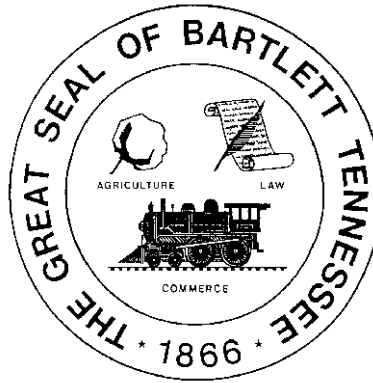
Means acceptable to the administrative authority shall be provided to prevent siphoning in any boiler or tank to which any water heater is attached. A cold water tube with a hole near the top is commonly accepted for this purpose.

ADD Section 627.10.1 as follows:**627.10.1 Switches in Electrical Supply Lines**

Means for interrupting the electrical supply to the air conditioning and heating equipment or to its associated cooling tower shall in no case be installed farther than six feet from the service side of the equipment.

ADD Section 628.5 as follows:**628.5**

All illuminating gas appliances must have an accessible manual shut off valve within reach of and extraneous to the appliance.



**BUILDING CODE AMENDMENTS
TO THE

2015
INTERNATIONAL
BUILDING
CODE**

Attachment: 2015 IBC Amendments (2395 : Ord 18-06, international code adoption)

BUILDING CODE**AMEND Section 101.1 as follows:****101.1 Title**

These regulations shall be known as the Building Code of The City of Bartlett, hereinafter referred to as “this code.”

AMEND Section 101.2.1 as follows:**101.2.1 Appendices**

To be enforceable, the appendices included in the Technical Codes must be referenced in the code text or specifically included in the adopting ordinance. The following appendices are referenced.

2015 International Building Code:	C-Group U-Agricultural Building E-Supplementary Accessibility Requirements F-Rodent Proofing G-Flood-Resistant Construction
--	--

ADD the following as 101.4.8:**101.4.8 Electrical**

The provisions of the 2014 National Electrical Code shall apply to the installation of electrical systems, including alterations, repairs, replacement, equipment, appliances, fixtures, fittings and appurtenances thereto.

ADD New Section 102.7 as follows:**102.7 Change of Occupancy**

If the occupancy classification of any existing building or structure is changed, the building electrical, gas, mechanical and plumbing systems shall be made to conform as required by the Code Official.

AMEND Section 103.1 to read as follows:**103.1 Creation of Enforcement Agency**

The Department of Code Enforcement is hereby created and the official in charge thereof shall be known as the Director of Code Enforcement.

BUILDING CODE**ADD New Section 103.4 as follows:****103.4 Restrictions on Employees**

An officer or employee connected with the department, except one whose only connection is as a member of the board established by this code, shall not be financially interested in the furnishing of labor, material, or appliances for the construction, alteration, or maintenance of a building, structure, service, system, or in the making of plans or of specification thereof, unless he is the owner of such. This officer or employee shall not engage in any other work which is inconsistent with his duties or conflict with the interests of the department or the City of Bartlett.

DELETE 105.1 in its entirety and replace with:**105.1 Permit Application Required**

Any owner, authorized agent, or contractor who desires to construct, enlarge, alter, repair, move, demolish, or change the occupancy of a building or structure, or to erect, install, enlarge, alter, repair, remove, convert or replace any electrical, gas, mechanical, or plumbing system or to cause any such work to be done shall first hire or cause to hire a licensed and/or registered contractor. The contractor shall first make application to the Code Official and obtain the required permit for the work. Building permits may be issued to the property and building owners when so allowed by The City of Bartlett Technical Codes and The State of Tennessee Contractors' License Laws. Alterations, repairs or rehabilitation work may be made to any existing structure, building, electrical, gas, mechanical or plumbing system without requiring the building, structure, plumbing, electrical, mechanical or gas system to comply with all the requirements of this code, provided that the alteration, repair or rehabilitation work conforms to the requirements of this code for new construction. The Code Official shall determine the extent to which the existing system shall be made to conform to the requirements of this code for new construction. Permits are required to be obtained by an individual licensed in that field (plumbing, gas, mechanical and electrical).

ADD Section 105.1.3 and 105.1.4 as follows:**105.1.3 Permits Required for Appurtenances to Buildings and Other Structures and Apparatus**

A permit shall be required to erect, install, alter, or repair any of the following list of building appurtenances, new structures, and apparatus, and shall include, but not limited to the following:

Conveyor systems; Racking systems/Shelving;

Permit and inspection fees for the above list will be as set forth in the Fee Ordinance.

Process Piping Systems;

Permit and inspection fees for the Process Piping System will be as set forth in the Fee Ordinance.

BUILDING CODE**105.1.4**

A permit shall be required to erect, install, alter, or repair any of the following list of building appurtenances, new structures, and apparatus, and shall include but not be limited to the following:

Cooling tower; Elevator; Fire Alarms; Fire Protection; Sprinkler System; Fire Suppression Systems, including commercial kitchen hoods; Generators, except outdoor self-contained units; Incinerator; Liquefied Petroleum Gas Systems; Medical Gas Systems; Mechanical Refrigeration System; Portable Water Systems; Pressure Piping System; Sewer Private (Private Drive) (see policy & procedures); Special Event Permits (see policy & procedures); Spray Booth; Storage Tank or Bin; Temporary Construction Trailers.

DELETE 105.2 items numbered under Building heading: 1, 2, 4, 5, 6, 8, 9, 10, 12, 13.

ADD Section 105.8 as follows:**105.8 Contractors Responsibilities****105.8.1 Bonding**

105.8.1.1 Every person doing business in the City of Bartlett as a Registered and/or Licensed Building, Building/Structure, Mechanical, Mover, Demolition, Gas (Master A & B), Electrical, and Plumbing Contractor shall file with the Code Official a bond in the penal sum of \$25,000, and issued by an incorporated insurance company authorized to do business in the City of Bartlett which has an office or agent located in Shelby County.

105.8.1.1.1 The condition of such bond shall be that the principal and surety shall indemnify the City of Bartlett and County of Shelby for their own use, and/or to any citizen against loss by improper compliance with Technical Codes and any other law or ordinance governing such work; that the principal will suffer no work to be done without a permit, and will report work done for inspection by the Code Official in conformity with Technical Codes.

105.8.1.1.2 Such bond shall be continuous and remain in effect every year thereafter, unless cancelled by providing 60 days written notice to the principal and oblige. Immediately upon receiving written notice of cancellation, the Code Official shall require that a new bond be furnished. The proper bond form will be provided by the Code Official.

105.8.1.1.3 Every contractor who fails to furnish a new bond as required above shall be deemed to have ceased to engage in the business of contracting. No further permits for work under the Technical Codes shall be issued, nor shall work proceed on permitted work until the required bond is furnished.

BUILDING CODE**105.8.1.2 Deposit or Bond to Insure Lot Cleaning**

Before issuing a permit to demolish a building or structure, the Code Official shall require that a deposit be posted, either a cashier's check or an approved surety bond, to insure that the premises, from which a building has been demolished or removed, will be properly cleaned and left in condition as outlined hereinafter. Deposit shall be in the following amounts for each building or structure:

1. A deposit of \$300 shall be made when the demolition is of residential dwellings of one or two stories in height, and containing not more than 5,000 square feet per floor, and said demolition is by the property owner of record.
2. A deposit of \$500 shall be made when the demolition is of residential and/or multi-dwellings of one or two stories in height, and containing not more than 10,000 square feet per floor.
3. A deposit of \$1,000 shall be made when the demolition is of residential dwellings or more than two stories in height, and/or those containing over 10,000 square feet per floor.
4. A deposit of \$1,500 shall be made when the demolition is of commercial and industrial structures of one or two stories in height, and containing not more than 10,000 square feet per floor.
5. A deposit of \$2,500 shall be made when the demolition is of commercial and industrial structures of 1 to 3 stories in height, and containing not more than 25,000 square feet floor space.
6. A deposit of \$5,000 shall be made when the demolition is of commercial and industrial structures of more than 3 stories in height, and/or containing over 25,000 square feet per floor.

105.8.1.3 Exceptions

Where a permit is for demolition under condemnation by a sovereign, either federal, state, or municipal, the above deposit or bond may be waived by the Code Official.

105.8.2 Liability Insurance

105.8.2.1 Every Registered and/or Licensed Contractor, acting as a contractor as listed below, shall be required to file with the Code Official an insurance policy issued by an incorporated insurance company licensed to do business in Tennessee with an office or agent located in Shelby County. The policy must cover the Registered and/or Licensed Contractor, their employees, and the City of Bartlett with liability insurance providing a minimum coverage of \$150,000 per person, and \$500,000 for any one occurrence of bodily injury and for property damage to the extent of \$150,000 per accident. Such insurance policy shall specify (one of the following) in its coverage:

Building Movers Contractor: Such insurance policy shall specify moving of buildings as the purpose and coverage.

Demolition Contractor: Such insurance policy shall specify demolition as the purpose and coverage.

Electrical Contractor: Such insurance policy shall specify installing, erecting, altering, or repairing electric wiring, conductors, materials, machinery, apparatus, or systems used for the transmission of electrical current for electrical light, heat, power, control, or signaling purposes in its coverage.

BUILDING CODE**105.8.2.2 Insolvency or Bankruptcy**

Such policy shall provide that the insolvency or bankruptcy of the assured shall not relieve the company from payment of damages for injuries or death sustained or loss occasioned within the provisions of the policy.

105.8.2.3 Cancellation

Such policy shall further provide that it may not be cancelled unless the Code Official is given at least 30 days written notice, sent by registered mail, prior to the cancellation date.

105.8.2.4 Exception

A property owner of record shall not be required to file with the Code Official proof of liability insurance when demolishing his own residential building, provided such building is not more than two stories in height and contains not more than two living units.

105.8.3

It shall be the duty of every contractor who shall make contracts for the installation or repairs of building, structure, electrical, gas, mechanical or plumbing systems, for which a permit is required, to comply with state or local rules and regulations concerning registration and/or licensing which the applicable governing authority may have adopted.

**105.8.4 Vehicle used by Gas, Mechanical, and Plumbing Contractors to have signs-
Identifying Ownership**

105.8.4.1 All trucks and similar vehicles used by gas, mechanical, and plumbing contractors or their employees shall be conspicuously displayed on the body of both sides of said vehicles, in any color or contrast to the color of the vehicle's body, the following identification: the full name of the firm to which it belongs, in lettering at least 2 inches high on the top line, and the wording MSC in lettering at least 1 ½ inches high on the second line.

105.8.4.2 In the event a contractor obtains a vehicle for temporary use, he will be permitted to identify said vehicle by placing on it, in a clearly visible position on both sides, a temporary sign or decal letters which may be easily removed. Said temporary sign or letters shall conform to the same requirements as the permanent lettering described hereinabove.

105.8.5 Contractors shall comply with the State of Tennessee Contractors License Law & Rules and Regulations: TCA, Title 62 Chapter 6.

BUILDING CODE**ADD to end of Section 107.3.4.1 the following:**

The design professional shall be an architect or engineer legally registered under the laws of this state regulating the practice of architecture or engineering and shall affix his official seal to said drawings, specifications and accompanying data, for the following:

1. All Group A, E, and I Occupancies.
2. Buildings and Structures three stories or more high.
3. Buildings and Structures 5,000 square feet (465 m²) or more in area.

EXCEPTION: One and Two family buildings, regardless of size, shall require neither a registered architect or engineer, nor a certification that an architect or engineer is not required unless required by the Code Official for specific cause.

ADD Section 109.7 as follows:**109.7 Permit Requirements**

All contractors that do work in the City limits of Bartlett are required to have a State of Tennessee Contractors license for work valued at \$25,000 dollars or greater. Value of the Building Permit is to include the value of all aspects of the project (i.e. plumbing, electrical, mechanical, gas, and design).

ADD Section 110.3.11 thru 110.3.14 as follows:**110.3.11 Electrical**

1. **Underground Inspection:** To be made after trenches or ditches are excavated, conduit or cable installed, and before any backfill is put in place.
2. **Rough-in Inspection:** To be made after the roof, framing, fire blocking and bracing is in place and prior to the installation of wall or ceiling membranes.
3. **Temporary Electrical Final Inspection:** To be made after one (1) or more circuits are completed and no unfinished circuits are connected.
4. **Final Inspection:** To be made after the building is complete, all required electrical fixtures are in place and properly connected or protected, and the structure is ready for occupancy.

110.3.12 Plumbing

1. **Underground Rough-In Inspection:** To be made after trenches or ditches are excavated, piping installed, and before any backfill is put in place.
2. **Top Out Inspection:** To be made after the roof, framing, fire blocking and bracing is in place and all soil, waste and vent piping is complete, and prior to this installation of wall or ceiling membranes.
3. **Final Inspection:** To be made after the building is complete, all plumbing fixtures are in place and properly connected and the structure is ready for occupancy.

BUILDING CODE

110.3.13 Mechanical

1. **Underground Inspection:** To be made after trenches or ditches are excavated, underground duct and fuel piping installed, and before any backfill is put in place.
2. **Rough-In Inspection:** To be made after the roof, framing, fire blocking and bracing are in place and all ducting and other concealed components are complete, and prior to the installation of insulation of wall or ceiling membranes.
3. **Final Inspection:** To be made after the building is complete, the mechanical system is in place and properly connected, and the structure is ready for occupancy.

110.3.14 Gas

1. **Rough-In Inspection:** To be made after all new piping authorized by the permit has been installed, and before any such piping has been covered or concealed or any fixtures or gas appliances have been connected. This inspection shall include a pressure test.
2. **Temporary Gas Final:** To be made after all piping authorized by the permit has been installed and concealed by sheetrock, or other materials, and after one (1) or more fixtures or gas appliances have been connected.
3. **Final Inspection:** to be made on all new gas work authorized by the permit and such portions of existing systems as may be affected by new work or any changes, to insure compliance with all the requirements of the Technical Codes and to assure that the installation and construction of the gas system is in accordance with reviewed plans.

ADD Section 110.7 and 110.8 as follows:**110.7 Re-inspection Fee for Excessive or Repeat Inspection Calls**

When an inspector rejects an inspection of part or all of a building, electrical, gas, mechanical, and/or plumbing system or equipment due to the work being in violation or incomplete, or no plainly visible street address is posted on the job site, an additional fee shall be as set forth in the Fee Ordinance and charged for re-inspection of the same infraction and each re-inspection thereafter until the infraction is corrected.

110.8 See Fee Schedule for Re-Inspection Fees.**ADD Section 111.5 thru 111.5.4 as follows:****111.5 Street Numbers for Buildings and Lots****111.5.1 Required**

Every main entrance to every building, suite (each tenant space), and every lot fronting upon any street within Bartlett shall bear and be known by an official street number assigned by Memphis Light, Gas and Water Division.

111.5.2 No Fractional Numbers Allowed

There shall be no fractional street numbers.

BUILDING CODE**111.5.3 Attaching, Stenciling, or Painting Numbers on Buildings**

Every person owning or occupying any house or building fronting on any street in Bartlett shall, prior to occupancy, have the proper number attached to, stenciled, or painted on, the front part of such house or building, over, on, or by a main entrance in such manner that the number shall be plainly visible from the street. Such street numbers shall conform with this Section. If, because of the setback of the house or building, or for any other reason, the number cannot readily be seen from the street, then the occupancy shall, in addition to the provision above, position the numbering so that it is clearly visible from the street.

111.5.4 Display of Incorrect Number

It shall be unlawful for any person to display any false or incorrect house or lot number knowingly and willfully or with the intention to deceive another person.

DELETE Section 113.1 and replace with the following:**113.1 Board of Mayor and Aldermen**

The Code Appeals Board is the Board of Appeals for the City of Bartlett.

ADD the following to Section 202:

International Electrical Code-Whenever the word “International Electrical Code” is used in this code herein adopted, it shall mean the 2014 National Electrical Code (NEC) with Local Amendments and will be known as the Electrical Code of the City of Bartlett, Tennessee Technical Codes.

International Building Code-Whenever the word “International Building Code” is used in this code herein adopted, it shall mean the 2015 International Building Code with Local Amendments and will be known as the Building Code of the City of Bartlett, Tennessee Technical Codes.

International Fuel Gas Code-Whenever the word “International Fuel Gas Code is used in this code herein adopted, it shall mean the 2015 International Fuel Gas Code with Local Amendments and will be known as the Fuel Gas Code of the City of Bartlett, Tennessee Technical Codes.

International Mechanical Code-Whenever the word “International Mechanical Code” is used in this code herein adopted, it shall mean the 2015 International Mechanical Code with Local Amendments and will be known as the Mechanical Code of the City of Bartlett, Tennessee Technical Codes.

International Plumbing Code-Whenever the word “International Plumbing Code” is used in this code herein adopted, it shall mean the 2015 International Plumbing Code with Local Amendments and will be known as the Plumbing Code of the City of Bartlett, Tennessee Technical Codes.

BUILDING CODE

International Existing Building Code-Whenever the word “International Existing Building Code” is used in this code herein adopted, it shall mean the 2015 International Existing Building Code with Local Amendments and will be known as the Existing Building Code of the City of Bartlett, Tennessee Technical Codes.

International Code Council A117.1-2017 Accessibility Code-Whenever the word “International Code Council A117.1-2017 Accessibility Code” is used in this code herein adopted, it shall mean the 2017 International Code Council A117.1-2017 Code with Local Amendments and will be known as the Accessibility Code of the City of Bartlett, Tennessee Technical Codes.

ADD Section 708.4.1 as follows:

708.4.1 Concealed spaces in the mall roof/ceiling assembly and floor/ceiling assembly shall be separated from the adjoining tenant spaces and concealed spaces above storefront entries and the mall.

ADD Section 708.5.1 as follows:

708.5.1 Private Balconies

On private exterior balconies with less than 50% open perimeter and constructed of combustible construction, tenant separation requirements at the balcony floor shall be maintained.

CHANGE 903.2 Exception to 903.2 Exception 1.

ADD to Section 903.2 Exception 2 as follows:

903.2 Exception 2: All structures exceeding 10,000 square feet are required to have an automatic fire sprinkler system installed. See Bartlett Ordinance Title 12, Chapter 8.

DELETE SECTION 1809.4 ENTIRELY and REPLACE with the following:

1809.4 Depth of Footings-The minimum depth of footings below the undisturbed ground surface shall be 13 inches (331 mm).

DELETE SECTION 1807.2 and REPLACE with the following:

1807.2 Retaining Walls

Retaining walls 36 inches or taller shall be designed to ensure stability against overturning, sliding, excessive foundation and water uplift. Retaining walls shall be designed for a safety factor of 1.5 against lateral sliding and overturning. Retaining walls are required to be designed by an Engineer and supporting documentation submitted to Code Enforcement prior to the installation of any retaining wall. Retaining walls 36 inches or taller shall not be constructed out of wood. The height of the wall shall be measured from the top of the footing to the top of the highest portion (top) of the wall.

ADD Section 3009 as follows:**3009 Special Provisions for Amusement Services****3009.1 Visual Inspections and NAARSO Amusement Inspection Required**

The City of Bartlett Code Enforcement inspection of amusement rides shall consist of a visual inspection of fencing, entrances, exits and blocking. Owner/Operator shall also be required to provide a report of a NAARSO inspection to the City of Bartlett Code Enforcement prior to the commercial operation of the amusement ride at that location.

3009.1.1 Technical Information

Providing all Technical Information and conducting all testing required by manufacturer is the responsibility of the amusement device owner. This information shall be presented to the City of Bartlett Code Enforcement before the operation of the amusement device. A daily maintenance and safety check shall be available upon request by the City of Bartlett Code Enforcement.

3009.2 Amusement Device Operator

Amusement devices shall be in the charge of competent persons of sound mind who shall have attained the age of 18 years.

3009.3 Inspection of Amusement Devices

Amusement devices shall be inspected by NAARSO Certified Inspector before the season or engagement period opens and/or at least once a year. A copy of such report shall be supplied to the Building Official.

DELETE SECTION 3107.1 in its entirety and REPLACE with the following:

3107.1 Signs shall be designed, constructed and maintained in accordance with the City of Bartlett sign code ordinances and this code.

ADD Section 3109.2 as follows:**3109.2 Grading and Drainage**

Slopes of filled dirt shall not encroach upon side property lines and shall not change the design flow of surface water. A final drainage plan shall be submitted at the time of permit application submittal.

ADD Sections 3303.7 thru 3303.19 as follows:**3303.7 Demolition of Buildings****3303.7.1 Demolition Permits**

The standards set forth in this section shall apply to the demolition of buildings or structures for which a permit is required.

BUILDING CODE**3303.8 Definition**

Demolition-the act of razing, dismantling, or removal of a building or structure, or portion thereof to the ground level.

3303.9 Time Limit

Notwithstanding the provision of 105.3, the Code Official may impose a time limit as an additional condition of a permit for completion of demolition work once such work shall have commenced, provided that for cause one or more extensions of time, for periods not exceeding thirty (30) days each, may be allowed in writing by the Code Official.

3303.10 Standards**3303.10.1 Limit Unsafe Working Conditions**

Demolition work having commenced shall be pursued diligently and without unreasonable interruption with due regard to safety. It is the intent of this section to limit the existence of an unsafe condition or nuisance on the premises during the period of demolitions operations.

3303.10.2 Fill Lot to Grade

Any surface holes or irregularities, wells, septic tanks, basements, cellars, swimming pools, sidewalk vaults, or coal chutes remaining after demolition of any building or structure shall be filled with material as approved by the Code Official, and shall be graded in such manner that will provide effective surface drainage.

3303.10.3 Remove Debris

All debris and accumulation of material resulting from demolition of any building or structure shall be removed from the premises.

3303.10.4 Seal Sewer Pipes

All building sanitary sewers shall be effectively plugged with concrete 18 inches below grade or as may be required by the Code Official.

3303.10.5 Dust Control

Except where there is adequate space, or approval has been granted by the Code Official, the demolition of a multi-story building by other than explosive means shall proceed with the complete removal of one story at a time. In the demolition of any building other than by explosive means, story after story shall be removed and shall be properly wet to alleviate any dust.

3303.10.6 Proper Demolition Procedures

No wall, chimney, or other construction shall be allowed to fall in mass on an upper floor. Bulky material, such as beams and columns, shall be lowered and not allowed to fall. When any building over one story in height is demolished, precautions for protecting the public shall be taken as prescribed in Chapter 33.

BUILDING CODE**3303.11 Inspections**

In lieu of the inspections required by 105.6, the Code Official or his/her designee shall make the following inspections upon notification from the permit holder or his agent:

1. **Initial Inspection:** To be made after all utility connections have been disconnected and secured in such manner that no unsafe or unsanitary conditions shall exist during or remain after demolition operations.
2. **Final Inspections:** To be made after all demolition work is completed.

3303.12 Permits**3303.12.1 Required**

No person, firm or corporation shall wreck, demolish, or raze any building or structure within the City of Bartlett without first obtaining a permit from the City of Bartlett Code Enforcement office. Such permit shall be issued only to a person, firm or corporation licensed as a demolition contractor in accordance with the provisions of the Technical Codes and they shall obtain a Bartlett Business License.

EXCEPTION: A permit may be issued to the property owner of record for demolition of his own residential building if such building is not more than two stories in height and contains not more than 5,000 square feet per floor. The property owner shall be required to make affidavit in his application for a permit and that he shall personally supervise all demolition and cleanup of the site for which the permit was issued.

3303.12.2 Application For a Permit

Application for a demolition permit shall be made by the owner of the building or structure, or authorized agent of the owner, or by a licensed demolition contractor employed by the owner. The full names and addresses of the owner, applicant, and responsible officers, if the owner is a corporate body, shall be stated, and the application shall be signed by the owner and the demolition contractor.

3303.12.3 Approval of Permit

The Code Official shall cause to be examined all applications for permit within a reasonable time after filing. If the proposed work conforms to the requirements of the Section, regarding proof of liability insurance and posting of necessary deposit, the Code Official shall issue a permit therefore as soon as practical. Each permit to raze a building shall name the owner of the property to be razed and the person performing the razing for or on behalf of such owner, and such permit shall be valid only as long as the razing work authorized by it is actually performed by or under the supervision of the person named thereon as being the person to perform such work. It shall be a misdemeanor for any person to perform work in connection with the razing of a building under the purported authority of a permit, which does not name him as the person to perform such work.

3303.12.4 Time Limitations

Each permit shall set forth a definite number of days in which demolition work shall be completed and the premises cleaned as required hereinafter. An extension of time may be granted by the Code Official for good cause.

BUILDING CODE**3303.12.5 Service Connections**

Before a structure can be demolished or removed, the owner or agent shall notify all utilities having service connections within the structure such as water, electric, gas, sewer, and other connections. A permit to demolish or remove a structure shall not be issued until a release is obtained from the utilities stating that their respective service connections and appurtenant equipment have been removed and plugged in a safe manner. Sewer lines shall be capped in an approved manner, approximately 18 inches below grade, by the demolition contractor. A capped sewer line shall not be covered until it has been inspected. If covered, the contractor shall expose the cap for inspections.

3313.1 Prohibitions

No structure or portion thereof being demolished or declared to be dangerous or unsafe shall be thrown, pulled or blasted, unless special approval is given by the Code Official.

3313.2 Control of Dust

All material and rubbish apt to produce dust must be kept wet or covered to prevent its being blown by the wind.

3313.3 Approval of Debris Disposal

All demolition debris must be disposed of in a place approved by the governing authority.

3314 Treatment of Party Walls**3314.1 Masonry Walls**

When any building or other structures is demolished so as to expose any party wall which forms a part of the building or other structure upon which any of the aforesaid operations are being performed, the permit holder shall repair and restore any flashing of adjoining property which is broken or damaged during such operations, and shall fill from the exposed side of such party wall any and all holes. He shall also install such new flashing as may be required to protect any vertical joints exposed by his demolition operations.

3314.2 Non-Masonry Walls

Where party walls are of other than masonry construction, such walls shall be restored and weather proofed in accordance with the requirements of the building code for exterior walls of the particular type of construction involved. All such party walls shall be faced with material commonly used, or exterior finish identical to, or as closely resembling as practicable, the facing material of the other exterior walls of the building left standing, and shall be painted or otherwise finished in a manner similar to other parts of the building.

3315 Protection of Open Pits and Holes

Demolition shall be properly protected with barricades and warning lights, as directed by the Code Official, until such time as they can be properly filled to grade. All excess materials, rubbish, and debris shall be removed from the premises.

BUILDING CODE**3316 Treatment of Lot After Building Demolished or Removed****3316.1 Leveling**

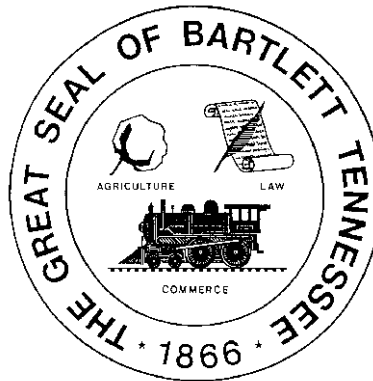
When a structure of building is demolished or removed, all walls, except party walls, including foundations and basement walls located on the lot involved in razing operation, shall be reduced to a level of the final grade. Excavations, holes, and depressions shall be filled and leveled to provide a final grade, which will affect good drainage. The finished surface of the lot shall be free of holes and depressions, which could accumulate water or be hazardous to pedestrians. All grade slabs shall be removed from the site.

3316.2 Fill

No materials other than clean earth shall be used in filling depressions and grading the site. All excess earth, brick, lumber, and other building materials and debris shall be removed from the site, and the premises shall be left in a safe, clean, and sanitary condition.

3317 Failure to Clean Premises

Failure of a person, firm, or corporation to comply with the provisions dealing with the cleaning of premises shall be sufficient cause to withhold a demolition contractor's privilege of obtaining demolition permit until there has been compliance with the cleaning provisions, and may be considered a misdemeanor offense and subject to fines and related costs. Repeated failure to properly clean premises shall be cause for suspension or revocation of a contractor's license



**CODE AMENDMENTS
TO THE

2015
INTERNATIONAL
ENERGY CONSERVATION
CODE**

Attachment: 2015 IECC Code Amendments (2395 : Ord 18-06, international code adoption)

ENERGY CONSERVATION CODE AMENDMENTS

AMEND Section C101.1 Entitled “Title” as follows:**C101.1 Title**

This code shall be known as the 2015 Bartlett Energy Conservation Code and shall be cited as such. It is referred to herein as “this code.”

AMEND Section C104.2.6 by Removing Requirements on Commissioning of a Building in the Final Inspection so when amended the Section shall read as follows:**C104.2.6 Final Inspection**

The building shall have a final inspection and shall not be occupied until approved. The final inspection shall include verification of the installation and proper operation of all required building controls.

AMEND Section C108.4 Entitled “Failure to Comply” so when amended it shall read as follows:**C108.4 Failure to Comply**

Any person who shall continue any work after having been served with a Stop Work Order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be liable to a fine of not less than one dollar or more than fifty dollars.

AMEND Section C301 Entitled “General” so when amended it shall read as follows:**C301 General**

Climate zones in Figure C301.1 or Table C301.1 shall be used in determining the applicable requirements from Chapters 4 and 5.

DELETE Sections C301.3 Entitled “International Climate Zones” and C301.4 Entitled “Tropical Climate Zones” without replacement.**AMEND Table C403.3.2 Entitled “Equipment Efficiency Performance Exceptions for Economizers” by Adding Climate Zone 3A in the same location as 3B for clarity of requirements in the Climate Zone covering the City of Bartlett. When modified the Table shall read as follows:**

ENERGY CONSERVATION CODE AMENDMENTS

Table C403.3.2
EQUIPMENT EFFICIENCY PERFORMANCE EXCEPTIONS FOR ECONOMIZERS

Climate Zones	Cooling Equipment Performance Improvements (EER or IPLV)
2B	10% Efficiency Improvement
3A & 3B	15% Efficiency Improvement
4B	20% Efficiency Improvement

DELETE Section C403.2.11 Entitled “Mechanical System Commissioning and Completion Requirements” in its entirety without replacement, but Reserve the Section for numbering consistency so when amended it shall read as follows:

C403.2.11 – Reserved

DELETE Section C404.11 Entitled “Service Water Heating System Commissioning and Completion Requirements” without replacement.

AMEND Section C403.3 Entitled “Economizers” by adding a New Exception #10 which shall read as follows:

10. Buildings, which due to their size or intended use, and based on an analysis provided by the engineer and satisfactory to the Building Official, will not realize an economic payback on the use of this equipment within a 10 year equipment life assumption.

DELETE Section C404.11 Entitled “Service Water Heating System Commissioning and Completion Requirements” without replacement.

AMEND Section C405.2.3 Entitled “Daylight Response Controls” by adding a New Exception #5 which shall read as follows:

5. Any area or room which classifies as a single daylight control zone which does not have fenestration, either by window or skylight, that exceeds 250 square feet.

DELETE Section C408 Entitled “System Commissioning” and All Its Subsections, without replacement.

ENERGY CONSERVATION CODE AMENDMENTS

AMEND Section C503.2 Entitled “Change in Space Conditioning” by Deleting the Existing Provisions and Replacing it as follows:

C503.2 Change in Space Conditioning

Any nonconditioned space that represents 5% of a commercial building, in which it is located, which is altered to become conditioned space shall be required to be brought into full compliance with this code. The Building Official may look back for two years prior to the application to capture other projects during that time that increased the floor area of conditioned space and total those previously conditioned areas with the proposed project’s area to determine if the applicable area threshold is exceeded.

AMEND Section C505.1 Entitled “Change of Occupancy or Use” so when amended it shall read as follows:

C505.1 General

Spaces undergoing a change in occupancy, which would result in an increase in demand for either fossil fuel or electrical energy, shall comply with this code. Where the use in a space changes from one use in Table C405.4.2(1) or C405.4.2(2) to another use in the same table, the installed lighting wattage shall comply with Section C405.4.

Exceptions:

1. Compliance with the requirements of Section C402 (Building Envelope Requirements) is not required unless the change in occupancy or use will increase fuel or energy use by more than twenty five percent (25%) and the renovations include changes to at least twenty five percent (25%) of the building envelope. In such a case, all envelope renovations must incorporate Section C402 requirements to the extent it is not structurally impractical to do so.
2. If change in occupancy or use which will increase fuel or energy use requires renovations that are more than 25% of the area of the space then that renovated portion of the building must meet all requirements in Sections C403 (Building Mechanical Systems), C404 (Service Water Heating), and C405 (Electrical Power and Lighting Systems) except compliance with Sections C403 and C404 is waived where HVAC and water heating systems do not serve at least twice the area renovated.

AMEND Section R101.1 Entitled “Title” so when Amended it shall read as follows:

R101.1 Title

This code shall be known as the 2015 City of Bartlett Energy Conservation Code and shall be cited as such. It is referred to herein as “this code.”

DELETE Section R107 Entitled “Fees” and all Subsections under it and Reserve the Section Number so that when amended it shall read:

Section R107 - Reserved

ENERGY CONSERVATION CODE AMENDMENTS

DELETE Section R401.3 Entitled “Certification” without replacement.

REPLACE Table R402.1.2 Entitled “Insulation and Fenestration Requirements by Component” with the Table provided below:

**Table R402.1.2
Insulation and Fenestration Requirements by Component ^a**

Climate Zone	Fenestration <i>U</i> -Factor ^b	Skylight <i>U</i> -Factor ^b	Glazed Fenestration SHGC ^b	Ceiling <i>R</i> -Factor	Wood Frame Wall <i>R</i> -Value	Mass Wall <i>R</i> -Value ^g	Floor <i>R</i> -Value	Basement Wall <i>R</i> -Value	Slab <i>R</i> -Value & Depth ^f	Crawl Space Wall <i>R</i> -Value ^c
3	0.50 ^g	0.65	0.3	30	13	5/8	19	5/13 ^e	0	5/13

Footnotes:

a – *R*-Values are minimums. *U*-factors and SHGC are maximums. R-19 batts compressed into normal 2X6 framing such that the *R*-Value is reduced by R-1 or more shall be marked with the compressed batt *R*-Value in addition to full thickness *R*-value.

b – The fenestration *U*-factor column excludes skylights. The SHGC column applied to all glazed fenestration.

c – “5/13” means 5-R continuous insulated sheathing on the interior or exterior of the home or R-13 insulation at the interior of the crawl space wall.

d – R-5 shall be added to the required slab edge *R*-Values for heated slabs. Insulation depth shall be the depth of the footing or 2 feet, whichever is less in Zone 3 for heated slabs.

e – Basement wall insulation shall not be required in warm-humid locations as defined by Figure R301 and Table 301.1.

f – The second *R*-value applies when more than half the insulation is on the interior of the mass wall.

g – For impact rated fenestration complying with Section R301.2.1.2 of the International Residential Code or Section 1609.1.2 of the International Building Code the maximum *U*-factor shall be 0.65.

AMEND Section R402.2.4 Entitled “Access Hatched and Doors” by Deleting All Language in the Section after the word “Weatherstripped” so that, when amended, it shall read as follows:

R402.2.4 Access Hatches and Doors

Access hatches from conditioned spaces to unconditioned spaces such as attics and crawl spaces shall be weatherstripped.

AMEND Section R402.3.3 Entitled “Glazed Fenestration SHGC” by Inserting “45 Square Feet (4.2 M²)” in place of “15 Square Feet (1.4m²)” so when it is Amended the Section shall read as follows:

R402.3.3 Glazed Fenestration Exemption

Up to 45 square feet (4.2M²) of glazed fenestration per dwelling unit shall be permitted to be exempt from the *U*-factor and SHGC requirements in Section R402.1.2. This exemption shall not apply to the *U*-factor alternative approach in Section R402.1.4 and the Total UA alternative in Section R402.1.5.

AMENDMENTS

DELETE Section R402.4.1.2 Entitled “Testing” in its entirety with no replacement.**AMEND Section R402.4.2 Entitled “Fireplaces” by Deleting the phrase “And Outdoor Combustion Air” without replacement so when amended it shall read as follows:****R402.4.2 Fireplaces**

New wood-burning fireplaces shall have tight fitting flue dampers or doors. Where using tight-fitting doors on factory-built fireplaces listed and labeled in accordance with UL 127, the doors shall be tested and listed for the fireplace. Where using tight-fitting doors on masonry fireplaces, the door shall be listed and labeled in accordance with UL 907.

DELETE Existing Table R402.4.1.1 Entitled “Air Barriers and Insulation Installation” and Replace it with the following Table below:

**Table R402.4.1.1
Air Barriers and Insulation Installation Component Criteria**

COMPONENT	CRITERIA
Air Barrier and Thermal Insulation	Exterior thermal envelope insulation for framed walls is installed in substantial contact or continuous alignment with the building envelope air barrier. Breaks or joints in air barrier are filled and repaired. Air-permeable insulation is not used as a sealing material. Air-permeable insulation is inside of an air barrier.
Ceiling/attic	Air Barrier in dropped ceiling/soffit is substantially aligned with insulation and any gaps are sealed. Attic access (except unvented attic), knee wall door or drop down stair is sealed.
Walls	Corners and headers are sealed. Junction with foundation and sill plate is sealed.
Windows and Doors	Space between windows/door jams and framing is sealed.
Rim Joists	Rim joints are insulated and include air barrier.
Floors (including above garage and cantilevered floors)	Insulation installed to maintain permanent contact with underside of subfloor decking. Air Barrier is installed at any exposed edge of insulation.
Crawl space walls	Insulation is permanently attached to walls. Exposed earth in unvented crawl space is covered with Class 1 vapor retarder with overlapping joints taped.
Shafts, penetrations	Duct shafts, utility penetrations, knee walls and flue shafts opening to exterior or unconditioned space are sealed.

Narrow cavities	Batts in narrow cavities are cut to fit, or narrow cavities are filled with sprayed or blown insulation.
Garage separation	Air sealing is provided between the garage and conditioned spaces.
Recessed lighting	Recessed light fixtures are air tight, IC rated, and sealed to drywall. Exception -Fixtures in conditioned space.
Plumbing and wiring	Insulation is placed between outside and pipes. Batt insulation is cut to fit around wiring and plumbing, or sprayed/blown insulation extends behind piping and wiring.
Shower/tub on exterior wall	Showers and tubs on exterior wall have insulation and an air barrier separating them from the exterior wall.
Electrical/phone box on exterior walls	Air barrier extends behind box or air sealed-type boxes are installed.
Common Wall	Air barrier is installed in common wall between dwelling units.
HVAC Register Boots	HVAC register boots that penetrate building envelope are sealed to subfloor or drywall.
Fireplace	Fireplace walls include an air barrier.

DELETE Section R403.3.3 Entitled “Duct Testing” without replacement.

DELETE Section R403.3.4 Entitled “Duct Leakage” without replacement.

AMEND Section R403.3.5 Entitled “Building Cavities” by ADDING the phrase at the end of the existing language “Except for Return Air on Interior Walls” so when amended it reads as follows:

R403.3.5 Building Cavities (Mandatory)

Building framing cavities shall not be used as ducts or plenums except for return air on interior walls.

DELETE Section R403.5.1 Entitled “Heated Water Circulation and Temperature Maintenance Systems” without replacement and the Section held In Reserve so when amended it shall read as follows:

R403.5.1 – Reserved

AMENDMENTS

AMEND Section R403.5.2 Entitled “Demand Recirculating Systems” by Removing the words “Pumps shall have controls that comply with the following:” and the Two Compliance Methods Thereunder, so when Amended it shall read as follows:

R403.5.2 Demand Recirculating Systems

A water distribution system having one or more recirculation pumps that pump water from a heated water supply pipe back to the heated water source through a cold water supply pipe shall be a demand recirculation system.

AMEND Section R403.6 Entitled “Mechanical Ventilation” by Deleting the last sentence in so that when Amended it shall read as follows:

R403.6 Mechanical Ventilation (Mandatory)

The building shall be provided with ventilation that meets the requirements of the *International Residential Code* or *International Mechanical Code*, as applicable or with other approved means of ventilation.

DELETE Sections R403.10 Entitled “Pools and Permanent Spa Energy Consumption” and ALL of its Subsections (R403.10.1, R403.10.2, R403.10.3), R403.11 Entitled “Portable Spas” and R403.12 Entitled “Residential Pools and Permanent Residential Spas” without replacement.

AMEND Section R404.1 Entitled “Lighting Equipment” by replacing “75 percent” with “25 percent” in the two places it appears in this section so that when amended it shall read as follows:

R404.1 Lighting Equipment (Mandatory)

Not less than 25 percent of the lamps in permanently installed light fixtures shall be high-efficiency lamps or not less than 25 percent of the permanently installed lighting fixtures shall contain only high-efficiency lamps.

Exception: Low voltage lighting

DELETE Section R404.1.1 Entitled “Lighting Equipment” without replacement.

DELETE Section R405.4.2.1 Entitled “Compliance Report for Permit Application” and Section R405.4.2.2 Entitled “Compliance Report for Certification of Occupancy” in their entirety without replacement, but showing the Section Numbers as “Reserved” to preserve numbering consistency of the remaining sections, so when amended they shall read as follows:

R405.4.2.1 – Reserved

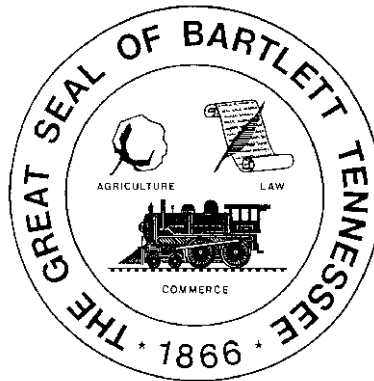
R405.4.2.2 – Reserved

ENERGY CONSERVATION CODE AMENDMENTS

DELETE Existing Section R503.2 Entitled “Change in Space Conditioning” and Replace it with the following:

R503.2 Change in Space Conditioning

Any nonconditioned space which is altered to become conditioned space shall be required to be brought into full compliance with the envelope insulation requirements of Section 402.1.2 of this code.



CODE AMENDMENTS TO THE

2015 INTERNATIONAL EXISTING BUILDING CODE

INTERNATIONAL EXISTING BUILDING CODE AMENDMENTS

AMEND Section 101.1 as follows:

101.1 Title

These regulations shall be known as the 2015 International Codes for the City of Bartlett hereinafter referred to as this code.

ADD Section 101.7.1 as follows:

101.7.1 Appendices adopted

Appendix A – Guidelines for the Seismic Retrofit of Existing Buildings.

Appendix B – Supplemental Accessibility Requirements for Existing Buildings and Facilities of the 2015 Edition of the *ICC International Existing Building Code* are adopted.

ADD A New Section 101.8 as follows:

101.8 Maintenance

Buildings and parts thereof shall be maintained in a safe and sanitary condition. The provisions of this code and the Building Code shall apply to the maintenance of existing buildings and premises; equipment and facilities; light, ventilation, space heating, sanitation, life and fire safety hazards, responsibilities of owners, operators, and occupants; and occupancy of existing buildings. The owner or owner's designated agent shall be responsible for the maintenance of the building. To determine compliance with this subsection, the Building Official shall have the authority to require a building to be reinspected. Except where specifically permitted by this code, the code shall not provide the basis for removal or abrogation of the fire protection and safety systems and devices in the existing buildings.

AMEND Section 105.2 as follows:

105.2 Work Exempt from Permits

Exemptions from permit requirements of this code shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this code or any other laws or ordinances of this jurisdiction. Permits shall not be required for the following:

1. Painting, papering, tiling, carpeting, cabinets, counter tops and similar finish work.
2. Temporary motion picture, television, and theater stage sets and scenery.
3. Reserved.

Delete permit exemptions for Mechanical, Plumbing and Gas.

ADD Section 105.4.1 as follows:

105.4.1 Permitting and Inspection

The inspection and permitting of any building system or plans by any jurisdiction, under the requirements of the Technical Codes shall not be construed in any court as a warranty of the physical condition of such building, system or plans or their adequacy. Neither the City of Bartlett nor any employee thereof shall be liable for damages for any defect or hazardous or illegal condition or inadequacy in such building, system or plans, or for any failure of any component of such, which may occur subsequent to such inspection or permitting.

INTERNATIONAL EXISTING BUILDING CODE AMENDMENTS**ADD Section 106.2.6 as follows:****106.2.6 Structural and Fire Resistance Integrity**

Construction documents for all buildings shall indicate how required structural and fire resistant integrity will be maintained. Where a penetration of a require fire restraint wall, floor or partition will be made for electrical, gas, mechanical, plumbing or communication conduits, pipes, and systems the plans shall indicate in sufficient detail how the fire integrity will be maintained.

AMEND Section 106.5 as follows:**106.5 Retention of Construction Documents**

One set of reviewed construction documents shall be retained by the Building Official for a period of not less than 180 days after the final inspection of the work allowed by the permit issued.

AMEND Section 107.1 as follows:**107.1 General**

The Building Official is authorized to issue permits for temporary structures and temporary uses such as construction sheds, seats, canopies, tents, and fences used for construction work or for temporary purposes. Such permits shall be limited as to time of service, but shall not be permitted for more than 180 days. The Building Official is authorized to grant extensions for demonstrated cases.

AMEND Section 107.3 as follows:**107.3 Temporary Power**

The Building Official is authorized to give permission to temporarily supply and use power in part of an electrical installation before such installation is fully completed and the final certificate of completion has been issued. The part covered by the temporary certificate shall comply with the requirements specified for temporary lighting, heat, or power in the 2014 National Electric Code.

AMEND Section 109.3.7 as follows:**109.3.7 Other Inspections**

In addition to the inspections specified above, the Building Official is authorized to make or require other inspections of any construction work to ascertain compliance with the provisions of this code and other laws that are enforced by the City of Bartlett Code Enforcement.

INTERNATIONAL EXISTING BUILDING CODE AMENDMENTS

AMEND Section 110.2 as follows:

110.2 Certificate Issued

After the Building Official inspects the building and finds no violations of the provisions of this code or other laws that are enforced by the City of Bartlett, the Building Official shall issue a certificate of occupancy that shall contain the following:

1. The building permit number.
2. The address of the structure.
3. The name and address of the owner.
4. A description of that portion of the structure for which the certificate is issued.
5. A statement that the described portion of the structure has been inspected for compliance with the requirements of this code for the occupancy and division of occupancy and the use for which the proposed occupancy is classified.
6. Any special stipulations and conditions of the building permit.

ADD the following to the end of Section 114.2:

Where an emergency exists, the Building Official shall not be required to give written notice prior to stopping work.

ADD to Section 202 as follows:

International Building Code – Whenever the word “International Building Code is used in this code as adopted, it shall mean the 2015 Edition of the *ICC International Building Code* with local amendments thereto and will be known as the 2015 Bartlett Building Code.

International Electric Code – Whenever the word “International Electrical Code” is used in this code as adopted, it shall mean all the 2014 Edition of the *National Electrical Code (NEC)* with local amendments thereto, and will be known as the 2014 Bartlett Electrical Code.

International Existing Building Code – Whenever the word “International Existing Building Code (IEBC)” is used in this code as adopted, it shall mean all the 2015 Edition of the *ICC International Existing Building Code* with local amendments and will be known as the 2015 Bartlett Building Code.

International Fire Code – Whenever the word “International Fire Code (IFC)” is used in this code adopted, it shall mean all the 2015 Edition of the *ICC International Fire Code* with local amendments as adopted by the City of Bartlett and will be known as the 2015 Bartlett Fire Code.

International Fuel Gas Code – Whenever the word “International Fuel Gas Code (IFGC)” is used in this code as adopted, it shall mean all of the 2015 Edition of the *ICC International Fuel Gas Code* with local amendments and will be known as the 2015 Bartlett Fuel Gas Code.

INTERNATIONAL EXISTING BUILDING CODE AMENDMENTS

International Mechanical Code – Whenever the word “International Mechanical Code (IMC)” is used in this code as adopted, it shall mean all the 2015 Edition of the *ICC International Mechanical Code* with local amendments and will be known as the 2015 Bartlett Mechanical Code.

International Plumbing Code – Whenever the word “International Plumbing Code (IPC)” is used in this code as adopted, it shall mean all the 2015 Edition of the *ICC International Plumbing Code* with local amendments and will be known as the 2015 Bartlett Plumbing Code.

AMEND Section 807.3 as follows:

807.3 Seismic Load

Existing buildings with a change of occupancy shall comply with the seismic provisions of Section 807.5 and 807.6 or Section 102.4.2 of this code as determined by the Code Official.

AMEND Section 1401.2 as follows:

1401.2 Applicability

Existing structures in which there is work involving additions, alterations or changes of occupancy shall be made to conform to the requirements of this chapter, or the provisions of Chapters 4 through 10. The provisions of Section 1201.1.2 through 1201.2.5 shall apply to existing occupancies that will continue to be, or are proposed to be in Group A, B, E, F, M, R, and S. These provisions shall not apply to buildings with occupancies in Group H or Group I.

AMEND Section 1401.6.3.2 as follows:

1401.6.3.2 Floor/Ceiling Construction

A floor/ceiling assembly used to create compartments shall conform to Section 712 of the International Building Code and shall have a fire-resistance rating of not less than 2 hours.

AMEND Section 1401.6.4.1 Category b, Category d, and Category e as follows:

1401.6.4.1 Categories

The categories for tenant and dwelling unit separations are:

1. Category a – No fire partitions; incomplete fire partitions; no doors; doors not self-closing or automatic-closing.
2. Category b – Fire partitions or floor assemblies with less than 1-hour fire-resistance ratings or not constructed in accordance with Section 708 or 712 of the International Building Code, respectively.
3. Category c – Fire partitions with 1-hour or greater fire-resistance ratings constructed in accordance with Section 708 of the International Building Code and floor assemblies with 1-hour but less than 2-hour fire-resistance ratings constructed in accordance with Section 711 of the International Building Code or with only one tenant within the floor area.

INTERNATIONAL EXISTING BUILDING CODE AMENDMENTS

4. Category d – Fire barriers with 1-hour but less than 2-hour fire-resistance ratings constructed in accordance with Section 707 of the International Building Code and floor assemblies with 2-hour or greater fire-resistance ratings constructed in accordance with Section 712 of the International Building Code.
5. Category e – Fire barriers and floor assemblies with 2-hour or greater fire-resistance ratings and constructed in accordance with Sections 707 and 712 of the International Building Code, respectively.

AMEND Section 1401.6.5.1 Category b, Category c, and Category d as follows:

1401.6.5.1 Categories

The categories for corridor walls are:

1. Category a – No fire partitions; incomplete fire partitions; no doors; or doors not self-closing.
2. Category b – Less than 1-hour fire-resistance rating or not constructed in accordance with Section 708.5 of the International Building Code.
3. Category c – 1-hour to less than 2-hour fire-resistance rating, with doors conforming to Section 715 of the International Building Code or without corridors as permitted by Section 1018 of the International Building Code.
4. Category d – 2-hour or greater fire-resistance rating, with doors conforming to Section 715 of the International Building Code.

AMEND Section 1401.6.6 as follows:

[B] 1401.6.6 Vertical Openings

Evaluate the fire resistance ratings of exit enclosure, hoistways, escalator openings and other shaft enclosures within the building, and openings between two or more floors. Table 1401.6.6(1) contains the appropriate protection values. Multiply that value by the construction type factor found in Table 1401.6.6(2). Enter the vertical opening value and its sign (positive or negative) in Table 1401.7 under Safety Parameter 1401.6.6, Vertical Openings, for fire safety, means of egress, and general safety. If the structure is a one-story building or if all the unenclosed vertical openings within the building conform to the requirements of Section 708 of the International Building Code, enter a value of 2. The maximum positive value for this requirement shall be 2.

AMEND Section 1401.6.10.1 Categories by amending Item 6 so when amended the section shall read as follows:

1401.6.10.1 Categories

The categories for smoke control are:

1. Category a – None.
2. Category b – The building is equipped throughout with an automatic sprinkler system. Openings are provided in exterior walls at the rate of 20 square feet (1.86m²) per 50 linear feet (15,240 mm) of exterior wall in each story and distributed around the building perimeter at intervals not exceeding 50 feet (15,240 mm). Such openings shall be readily openable from the inside without a key or separate tool and shall be provided with ready access thereto. In lieu of operable openings, clearly and permanently marked tempered glass panels shall be used.

3. Category c – One enclosed exit stairway, with ready access thereto, from each occupied floor of the building. The stairway has operable exterior windows, and the building has openings in accordance with Category b.
4. Category d – One smokeproof enclosure and the building has openings in accordance with Category b.
5. Category e – The building is equipped throughout with an automatic sprinkler system. Each floor area is provided with a mechanical air-handling system designed to accomplish smoke containment. Return and exhaust air shall be moved directly to the outside without recirculation to other floor areas of the building under fire conditions. The system shall exhaust not less than six air changes per hour from the floor area. Supply air by mechanical means to the floor area is not required. Containment of smoke shall be considered as confining smoke to the floor area involved without migration to other floor areas. Any other tested and approved design than will adequately accomplish smoke containment is permitted.
6. Category f – Each stairway shall be one of the following: a smokeproof enclosure in accordance with Section 1022.9 of the International Building Code; pressurized in accordance with Section 909.20.5 of the International Building Code; or shall have operable exterior windows.

AMEND Section 1401.6.11 so when amended it shall read as follows:

1401.6.11 Means of Egress Capacity and Number

Evaluate the means of egress capacity and the number of exits available to the building occupants. In applying this section, the means of egress are required to conform to the following sections of the International Building Code: 1003.7, 1004, 1005.1, 1014.2, 1014.3, 1015.2, 1021, 1025.1, 1027.2, 1027.6, 1028.2, 1028.3, 1028.4 and 1029 [except that the minimum width required by this section shall be determined solely by the width for the required capacity in accordance with Table 1401.6.11(1)]. The number of exits credited is the number that is available to each occupant of the area being evaluated. Existing fire escapes shall be accepted as a component in the means of egress when conforming to Section 405. Under the categories and occupancies in Table 1401.6.11(2), determine the appropriate value and enter that value into Table 1401.7 under Safety Parameter 1401.6.11, Means-of-Egress Capacity, for means of egress and general safety.

ADD Table 1401.6.11(1) as follows:

**Table 1401.6.11(1)
Egress Width Per Occupant Served**

OCCUPANCY	WITHOUT SPRINKLER SYSTEM	WITHOUT SPRINKLER SYSTEM	WITH SPRINKLER SYSTEM ^a	WITH SPRINKLER SYSTEM ^a
OCCUPANCY	STAIRWAYS (inches per occupancy)	Other egress components (inches per occupant)	Other egress components (inches per occupant)	Other egress components (inches per occupant)
Occupancies other than those listed below	0.3	0.2	0.2	0.15
Hazardous: H-1, H-2, H-3, H-4	Not permitted	Not permitted	0.3	0.2
Institutional: I-2	Not permitted	Not permitted	0.3	0.2

For SI: 1 inch=25.4 mm

a. Buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.1.1 or 903.3.1.2.

INTERNATIONAL EXISTING BUILDING CODE AMENDMENTS

RE-LABEL TABLE 1401.6.11 AS 1401.6.11(2)**AMEND Section 1401.6.19 as follows:****1401.6.19 Incidental Uses**

Evaluate the protection of incidental uses in accordance with Section 509.4.1 of the International Building Code. Do not include those where this code requires automatic sprinkler systems throughout the building including covered and open mall buildings, high-rise buildings, public garages and unlimited area buildings. Assign the lowest score from Table 1401.6.19 for the building or floor area being evaluated and enter that value into Table 1401.7 under Safety Parameter 1401.6.19, Incidental Uses, for fire safety, means of egress and general safety. If there are no specific occupancy areas in the building or floor area being evaluated, the value shall be zero.

ADD Sections 1510 Through 1519 as follows:**1510 Demolition of Buildings****1510.1 Demolition Permits**

The standards set forth in this section shall apply to the demolition of buildings or structures for which a permit is required under Section 105 of the International Codes.

1510.2 Definition

Demolition – the act of razing, dismantling, or removal of a building or structure, or portion thereof to the ground level.

1510.3 Time Limit

Notwithstanding the provision of Section 104.6, the Building Official may impose a time limit as an additional condition of a permit for completion of demolition work once such work shall have commenced. The Building Official may also provide one or more extensions of time with such extensions granted in no more than 30 day intervals, upon written request by the contractor or owner conducting the demolition when good cause is present. Any extension shall only be granted in writing.

1511 Standards**1511.1 Limit Unsafe Working Conditions**

Demolition work having commenced shall be pursued diligently and without unreasonable interruption with due regard to safety. It is the intent of this section to limit the existence of an unsafe condition or nuisance on the premises during the period of demolition operations.

1511.2 Fill Lot to Grade

Any surface holes or irregularities, wells, septic tanks, non-petroleum underground storage tanks, basements, cellars, sidewalk vaults, or coal chutes remaining after demolition of any building or structure shall be filled with material as approved by the Building Official, and shall be graded in such manner that will provide effective surface drainage.

INTERNATIONAL EXISTING BUILDING CODE AMENDMENTS

1511.3 Remove Debris

All debris and accumulation of material resulting from demolition of any building or structure shall be removed from the premises.

1511.4 Seal Sewer Pipes

All building sanitary sewers shall be effectively plugged with concrete 18 inches below grade or as may be required by the Building Official.

1511.5 Dust Control

Except where there is adequate space, or approval has been granted by the Building Official, the demolition of a multi-story building by other than explosive means shall proceed with the complete removal of one story at a time. In the demolition of any building other than by explosive means, story after story shall be removed and shall be properly wet to alleviate any dust.

1511.6 Proper Demolition Procedures

No wall, chimney, or other construction shall be allowed to fall in mass on an upper floor. Bulky material, such as beams and columns, shall be lowered and not allowed to fall. When any building over one story in height is demolished, precautions for protecting the public shall be taken as prescribed in Chapter 33.

1512.1 Inspections

In lieu of the inspections required by Section 109 of the Bartlett Building Code, the Building Official shall make the following inspections upon notification from the permit holder or his agent:

1. Initial Inspection: To be made after all utility connections have been disconnected and secured in such manner that no unsafe or unsanitary conditions shall exist during or remain after demolition operations.
2. Final Inspections: To be made after all demolition work is completed.

1513 Permits

1513.1 Required

No person, firm or corporation shall wreck, demolish, or raze any building or structure within Bartlett without first obtaining a permit from the City of Bartlett. Such permit shall be issued only to a person, firm or corporation licensed as a demolition contractor in accordance with the provisions of the Technical Codes.

Exception: A permit may be issued to the property owner of record for demolition of his own residential building if such building is not more than two stories in height and contains not more than 5,000 square feet per floor. The property owner shall be required to make affidavit in his application for permit that he shall personally supervise all demolition and clean up of the site for which the permit was issued.

INTERNATIONAL EXISTING BUILDING CODE AMENDMENTS

1513.2 Application for Permit

Application for demolition permit shall be made by the owner of the building or structure, or authorized agent of the owner, or by a licensed demolition contractor employed by the owner. The full names and addresses of the owner, applicant, and responsible officers, if the owner is a corporate body, shall be stated, and the application shall be signed by the owner and the demolition contractor. In the case of all commercial buildings, or residential buildings being razed by a contractor for the development of commercial property, notice from the Shelby County Health Department that a “Ten Day Asbestos Notice” has been filed with that Department’s Pollution Control Section is also required.

1513.3 Approval of Permit

The Building Official shall cause to be examined all applications for permit within a reasonable time after filing. If the proposed work conforms to the requirements of this Section, regarding proof of liability insurance and posting of necessary deposit and when necessary, filing of a pre-demolition survey, the Building Official shall issue a permit therefore as soon as practical. Each permit to raze a building shall name the owner of the property to be razed and the person performing the razing work for or on behalf of such owner, and such permit shall be valid only so long as the razing work authorized by it is actually performed by or under the supervision of the person named thereon as being the person to perform such work. It shall be a violation of this code for any person to perform work in connection with the razing of a building under the purported authority of a permit, which does not name them as the person to perform such work.

1515.3.1 Time Limitations

Each permit shall set forth a definite number of days in which demolition work shall be completed and the premises cleaned as required hereinafter. An extension of time may be granted by the Building Official for good cause.

1513.3.2 Service Connections

Before a structure can be demolished or removed, the owner or agent shall notify all utilities having service connections within the structure such as water, electric, gas, sewer, and other connections. A permit to demolish or remove a structure shall not be issued until a release is obtained from the utilities stating that their respective service connections and appurtenant equipment have been removed and plugged in a safe manner. Sewer lines shall be capped in an approved manner, approximately 18 inches below grade, by the demolition contractor. A capped sewer line shall not be covered until it has been inspected. If covered, the contractor shall expose the cap for inspection.

INTERNATIONAL EXISTING BUILDING CODE AMENDMENTS

1514 Safeguards During Demolition

1514.1 Roof Covering

During the demolition of any building exceeding one story in height that is located at a distance less than 10 feet, or less than $\frac{1}{4}$ of the height of the building, from any street or alley property line, or when required by the Building Official, a roof covering for the entire length of the project shall be provided over the temporary or permanent sidewalk, from the time demolition commences above the second floor level until materials are no longer being used or handled on the front above such walk. Where required for demolition operation, the passageway shall be covered with an enclosed canopy or shed the width of the passageway with a head clearance of not less than 7 feet. The support shall be four-inch by six-inch (4" x 6") timbers, with beams of three-inch by twelve-inch (3"x12") timbers on centers of not over four feet (4'), and such shed shall be roofed with two layers of sound two-inch (2") planks; however, other construction of equal strength may be used when approved by the Building Official. The sides shall be enclosed with tight, smooth sheathing and such covered walks shall be suitably lighted with necessary.

Exception: Where, in the opinion of the Building Official, a covered walk is not necessary, permission may be granted to block off part of the sidewalk, street, or alley with the approval of the traffic engineer.

1514.2 Fence

Where the distance from the building to the street or alley property line is less than half the height of the building, a fence of solid construction at least six feet high shall be provided.

1514.3 Sidewalk Access

Areas occupied by a sidewalk or temporary walkway in use shall not be excavated unless such area is provided with a walkway capable of supporting at least 150 pounds per square foot. Walkways shall be provided with suitable ramps at each end.

1515 Method of Razing

1515.1 Required to Start at Top

Razing, by other than explosive means, shall begin at the top of the structure and proceed downward. No wall, beam, column, or member supporting a load shall be disturbed or weakened until such load is entirely removed. All masonry walls shall be removed unit by unit or in the manner approved by the Building Official. All loosened materials and debris shall be removed from time-to-time so as not to accumulate in such quantity or in such weight as may overload any floor, platform, or scaffold. Plain or reinforced concrete structures shall be razed in such sections and in such manner as approved by the Building Official.

1515.2 Prohibitions

No structure or portion thereof being demolished or declared to be dangerous or unsafe shall be thrown, pulled or blasted, unless special approval is given by the Building Official.

INTERNATIONAL EXISTING BUILDING CODE AMENDMENTS

1515.3 Control of Dust

All material and rubbish apt to produce dust must be kept wet or covered to prevent its being blown by the wind.

1515.4 Approval of Debris Disposal

All demolition debris, which is not being reused or recycled, must be disposed of in a place approved by the governing authority. Materials to be recycled or reused that are stored on-site during demolition activities shall be managed and stored so as not to pose a danger to workers on the site or to the general public.

1516 Treatment of Party Walls

1516.1 Masonry Walls

When any building or other structures is demolished so as to expose any party wall which forms a part of the building or other structure upon which any of the aforesaid operations are being performed, the permit holder shall repair and restore any flashing and other weatherproofing of adjoining property which is broken or damaged during such operations, and shall fill from the exposed side of such party wall any and all holes. For purposed of this section, a “party wall” is a dividing partition between two adjoining buildings (or units) that is shared by the tenants of each residence or business. The permit holder shall also install such new flashing as may be required to protect any vertical joints exposed by the permitted demolition operations.

1516.2 Non-Masonry Walls

Where party walls are of other than masonry construction, such walls shall be restored and weather proofed in accordance with the requirements of the building code for exterior walls of the particular type of construction involved. All such party walls shall be faced with material commonly used, or exterior finish identical to, or as closely resembling as practicable, the facing material of the other exterior walls of the building left standing, and shall be painted or otherwise finished in a manner similar to other parts of the building.

1517 Protection for Open Pits and Holes

Demolition shall be properly protected with barricades and warning lights, as directed by the Building Official, until such time as they can be properly filled to grade. All excess materials, rubbish, and debris shall be removed from the premises.

1518 Treatment of Lot After Building Demolished or Removed

1518.1 Leveling

When a structure or building is demolished or removed, all walls, except party walls, including foundations and basement walls located on the lot involved in razing operation, shall be reduced to a level at least 18 inches (46 cm) below the final grade. Excavations, holes, and depressions shall be filled and leveled to provide a final grade, which will affect good drainage. The finished surface of

the lot shall be free of holes and depressions, which could accumulate water or be hazardous to pedestrians. All grade slabs shall be removed from the site.

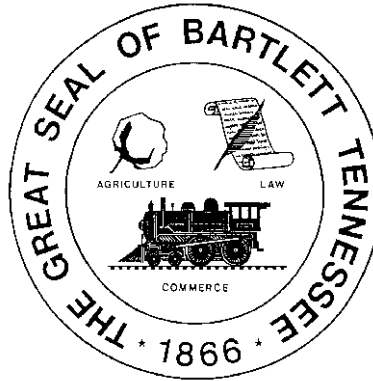
INTERNATIONAL EXISTING BUILDING CODE AMENDMENTS

1518.2 Fill

No materials other than clean earth may be used in filling depressions and grading the site. All excess earth, brick, lumber, and other building materials and debris shall be removed from the site, and the premises shall be left in a safe, clean, and sanitary condition.

1519 Failure to Clean Premises

Failure of a person, firm, or corporation to comply with the provisions dealing with the cleaning of premises shall be sufficient cause to withhold a demolition contractor's privilege of obtaining demolition permits until there has been compliance with the cleaning provisions. Repeated failure to properly clean premises shall be cause for suspension or revocation of a contractor's license.



**BUILDING CODE AMENDMENTS
TO THE**

**2015
INTERNATIONAL
RESIDENTIAL
BUILDING
CODE**

Attachment: 2015 IRC Building Amendments (2395 : Ord 18-06, international code adoption)

RESIDENTIAL BUILDING CODE

When adopting the 2015 International Residential Code, the following Appendices will also be adopted: A, B, C, D, G, J, M & N. Please see last page for Appendices amendments.

AMEND Section R101.1 as follows:

R101.1 Title

These provisions shall be known as the Residential Code for One-and Two-Family Dwellings of The City of Bartlett, and shall be cited as such and will be referred to herein as “this code.”

AMEND Section 103.1 to read as follows:

R103.1 Creation of Enforcement Agency

The Department of Code Enforcement is hereby created and the official in charge thereof shall be known as the Director of Code Enforcement.

DELETE Section R103.2 in its entirety and replace with the following:

R103.2 Code Official Qualifications

The Code Official shall have at least 10 years’ experience or equivalent, as an architect, engineer, inspector, contractor, or superintendent of construction, or any combination of these, five years of which have been in responsible charge of work. The Code Official should be certified as a Building Official through a recognized certification program or have a combination of education and experience acceptable to the governing authority. The Code Official shall be appointed by the Mayor and shall serve at his will and pleasure.

DELETE Section R103.3 in its entirety and replace with the following:

R103.3 Inspector Qualifications

The Code Official, with the approval of the applicable governing authority, may hire such number of officers, inspectors, assistants and other employees as shall be authorized from time to time. A person shall not be hired as inspector of construction who has not had at least five (5) years’ experience as an inspector, engineer, architect, or as a superintendent, foreman, or competent mechanic in charge of construction. The inspector shall be certified through a recognized certification program as an inspector in their area of responsibility within twelve months of his/her date of hire.

ADD New Section 103.4 as follows:

R103.4 Restrictions on Employees

An officer or employee connected with the department, except one whose only connection is as a member of the board established by this code, shall not be financially interested in the furnishing of labor, material, or appliances for the construction, alteration, or maintenance of a building, structure, service, system, or in the making of plans or of specifications thereof, unless he is the owner of such. This officer or employee shall not engage in any other work which is inconsistent with his duties or conflict with the interests of the department.

RESIDENTIAL BUILDING CODE

DELETE R105.1 in its entirety and replace with the following:**R105.1 Permit Application Required**

Any owner, authorized agent, or contractor who desires to construct, enlarge, alter, repair, move, demolish, or change the occupancy of a building or structure, or to erect, install, enlarge, alter, repair, remove, convert or replace any electrical, gas, mechanical, or plumbing system or to cause any such work to be done shall first hire or cause to hire a licensed and/or registered contractor. The contractor shall first make application to the Code Official and obtain the required permit for the work. Building permits may be issued to the property and building owners when so allowed by the City of Bartlett Technical Codes and the State of Tennessee Contractors' License Laws. Alterations, repairs or rehabilitation work may be made to any existing structure, building, electrical, gas, mechanical or plumbing system without requiring the building, structure, plumbing, electrical, mechanical or gas system to comply with all the requirements of this code, provided that the alteration, repair or rehabilitation work conforms to the requirements of this code for new construction. The Code Official shall determine the extent to which the existing system shall be made to conform to the requirements of this code for new construction. Permits are required to be obtained by an individual licensed in that field for plumbing, gas, mechanical, and electrical.

ADD a new subsection R105.1.1 entitled "Design and Construction of Retaining Walls" which shall read as follows:**R105.1.1 Design and Construction of Retaining Walls**

Retaining wall systems shall be designed by a professional engineer, licensed to practice in the State of Tennessee, for all loads as specified in the Building Code and within this Chapter and in keeping with nationally recognized standards. Design shall be based upon sound engineering and geo-technical principles.

DELETE in R105.2 under Building: 1, 2, 3, 4, 5, 7, 9, & 10.**DELETE in R105.2 under Mechanical: 4 & 7****ADD to the end of Section R105.3.1 as follows:****R105.3.1**

When a building or structure is improved and/or remodeled and the value of the work to be completed exceeds 50% of the market value of the building or structure before the damage has occurred, the structure or building shall be improved or remodeled to the requirements for new construction as determined by the Director of Code Enforcement.

DELETE Section R112.3 and replace with the following:**R112.3 Board of Mayor and Aldermen**

The Board of Mayor and Aldermen shall be The Code Appeals Board of the City of Bartlett.

RESIDENTIAL BUILDING CODE

Table R301.2 (1) shall read as follows and all existing footnotes shall remain unchanged.

Table R301.2 (1)
Climatic and Geographic Design Criteria

Wind Design**Subject to Damage from**

Ground Snow Load	Speed (mph) ^d	Topographic Effects ^k	Seismic Design Category ^g	Weathering ^a	Frost Depth Line ^b	Termite ^c	Decay ^d	Winter Design Temp (°F) ^f	Ice Barrier Underlayment Required ⁱ	Flood Hazard ^h	Air Freezing Index ^j	Mean Annual Temp
10 lb/ft ₂	89	No	D1	Moderate	5 inches	Moderate to Heavy	Moderate to Severe	18	No	9/29/2007	158	61.8

ADD Section R301.2.2 as follows:

R301.2.2 Seismic Provisions.

The seismic provisions of this code shall apply as follows:

1. Townhouse in Seismic Design Categories C, D₀, D₁ and D₂.
2. Detached one and two family dwellings in D₀, D₁ and D₂, however, such detached one and two family dwellings constructed using wood framing in Seismic Design Categories D₀, D₁ and D₂ shall be allowed, as an alternative compliance method for meeting the structural requirements of this code's seismic provisions, to comply with the requirement in Section R301.2.2.3.8.

ADD Section R301.2.2.3.5 titled "Full Exterior Wood Structural Sheathing" as follows:

R301.2.2.3.5 Full Exterior Wood Structural Sheathing

One and two family houses shall be constructed with full exterior 7/16 inch (11 mm) minimum wood structural sheathing as a method of compliance with seismic protection requirements. In parts of the structure that do not provide sufficient support from such sheathing, such as certain garage door openings, or when the owner wished to use such devices as a method of meeting seismic requirements engineered braced wall panels are also allowed.

R301.2.2.3.8 Alternative Compliance Method for Structural Requirements

In addition to meeting all the structural requirements for Seismic Design Category C and Sections R301.2.2.3.1, R301.2.2.3.6 and R301.2.2.3.7, an alternative compliance method for meeting structural requirements when wood framing is used shall include compliance with the following items. In the event any requirement in this section differs from wind code structural requirements, the more stringent will apply.

RESIDENTIAL BUILDING CODE

R301.2.2.3.8.1 Anchorage Exterior Walls (Sole Plates)

Exterior wall sole plates shall be secured to the foundation or framing below by one of the following methods:

- 1) **Foundation:** ½ inch (12.7 mm) anchor bolts, with 3 inch by 3 inch (76 mm by 76 mm) washers, embedded in the foundation a minimum of 7 inches (178 mm) in depth. Such anchor bolts are to be placed 4 feet on center maximum and within 12 inches (305 mm) of the end of each plate section. A minimum of 2 anchors per plate section is required.
- 2) **Foundation:** MASA anchors or equivalent embedded in the foundation and placed at 4 feet (1219 mm) on center maximum and within 12 inches (305 mm) of the end of each plate section. A minimum of 2 anchors per plate section is required.
- 3) **Elevated Floors:** 10d nails placed at 8 inches on center and embedded in a continuous rim board. Rim board depth to match depth of floor framing. Rim board shall be nailed to the end of each floor framing member with three 10d nails. Where floor framing parallels exterior wall, 2 rim boards shall be provided and nailed per Table R602.3(1). The Rim board shall be fastened to wall top plate with metal plates at 6 feet (1829 mm) on center; installed plate capacity shall equal or exceed 440 pounds.

R301.2.2.3.8.2 Anchorage All Structural Interior Walls (Sole Plates)

Interior wall framing shall be secured by one of the following methods:

- 1) **Foundation:** ½ inch (12.7 mm) anchor bolts, with 3 inch by 3 inch (76 mm by 76 mm) washers, embedded a minimum of 7 inches (178 mm) in depth in the concrete foundation (thickened slab) at 4 feet (1219 mm) on center maximum and within 12 inches (305 mm) of the end of each plate section.
- 2) **Foundation:** By power actuated fasteners that provide 210 pounds per linear foot shear capacity, placed 2 feet (610 mm) on center maximum and within 12 inches (305 mm) of each plate section or equivalent means of anchorage. A minimum of 2 anchors are required per plate section.
- 3) **Elevated Floors:** 10d nails placed at 8 inches (204 mm) on center and embedded in one of the following:
 - a) Structural wall top plate flush with bottom of floor sheathing, or
 - b) Floor joist parallel with and directly below plate, or
 - c) Blocking, depth to match, placed between floor joists and running the full length of the plate. Blocking to be nailed per Table R602.3(1).

R301.2.2.3.8.3 Stud Spacing – Exterior Walls

All 2x4 exterior walls shall be a maximum of 16 inch (406 mm) stud spacing up to 3 stories. Gypcrete flooring or similar cementitious leveling products shall not be used on elevated floors. **EXCEPTION:** Thin-set or other base material required for installation of flooring products in isolated confined spaces such as bathrooms.

RESIDENTIAL BUILDING CODE

R301.2.2.3.8.4 Wall Sheathing**R301.2.2.3.8.4.1 Exterior Wall Sheathing**

Exterior wall sheathing shall be 7/16 inch (11 mm) exterior rated OSB or equivalent or 7/16 inch (11 mm) plywood minimum. Sheathing is to be fastened every 6 inches (156 mm) on the edges and 12 inches (305 mm) at intermediate supports.

R301.2.2.3.8.4.2 Interior Structural Wall Sheathing

Interior sheathing shall be a minimum of ½ inch (12.7 mm) gypsum fastened every 7 inches (178 mm) at intermediate supports.

R301.2.2.3.8.5 Garage Door Openings

Brace wall panels are required for garage openings as per Section R602.10.6 of this code.

Exception: An engineered pre-manufactured wall panel is allowed to be used at garage openings.

R301.2.2.3.8.6 APA Narrow Wall Systems Are Not Permitted

Use of APA narrow wall systems is not permitted for establishing compliance with these requirements.

R301.2.2.3.8.7 Connections Across Floor Joist Space

18 gauge galvanized steel coil strapping (ex. CS 18) installed at 48 inch (1219 mm) on center across floor joist space or equivalent is required on all exterior walls and stacked interior structural walls. Strapping shall run vertical along edge of studs and shall be centered on floor joist space. Studs shall be vertically aligned.

R301.2.2.3.8.8 Roof Framing Connections

Roof framing members shall be fastened to wall top plate with 18 gauge galvanized steel clips (ex. H2.5A) or equivalent, not to exceed 48 inches (1219 mm) on center maximum. Provide clips in addition to fastening requirements in Table R602.3(1). This requirement applies to all contact points with load bearing walls. In the event wind fastening requirements differ, the more stringent shall apply.

R301.2.2.3.8.9 Shearwall Holddowns

- 1) Exterior walls: A single holddown shall be installed at each end of each wall over 8 feet (2438 mm) in length (2 holddowns per wall length). Holddown capacity (P), in pounds, shall equal to 210 lbs/ft times wall height ($P=210 \times H$).
- 2) Wall height (H): distance from wall bottom plate to wall top plate.
- 3) A cut sheet of the hold down type(s) used shall be provided to Code Enforcement when requested by the Building Official. Cut sheet shall show tested product load rating and manufacturer information.

RESIDENTIAL BUILDING CODE

R301.2.2.3.8.10 Opening straps/clips

This section applies only to window and door openings and only to openings located in exterior walls and interior structural walls. Louver, pipe penetrations, dryer vents, and all other wall openings are not required to meet this section unless they exceed 4 sq. ft. in area.

- 1) **Studs above and below headers and window sill plates:** Provide 18 gauge galvanized steel clips (ex. H2.5A) or equivalent at 32 inches (813 mm), top and bottom of studs, minimum 2 clips per opening width at headers and sills.
- 2) **Headers:** Headers shall bear on minimum 1 ply jack post and be fastened to post with 18 gauge galvanized steel clips (ex. H2.5A), or continuous sheathing from king post to header or sill or equivalent.
- 3) **Window Sill Plate:** Sill plate shall be end nailed with three 10d nails each end through minimum 1 ply of king/jack posts, or continuous sheathing from king post to header or sill, or equivalent.
- 4) **King/Jack Posts:** Provide 20 gauge galvanized steel stud plate connector (ex. SP1) or equivalent from post to wall plate, top and bottom. Post plys shall be nailed together with 10d nails at 8 inches (204 mm) on center staggered full height.

R301.2.2.3.8.11 Brick Veneer

- 1) Exterior brick veneer shall not exceed 25 feet (7620 mm) in height above non-combustible foundation. Brick at gable peaks shall not exceed 40 feet (12,192 mm) in height above non-combustible foundation.
- 2) Exterior brick veneer shall comply with all other applicable Chapter 7 IRC requirements.
- 3) Interior brick veneer and masonry chimneys shall comply with Chapter 7 IRC requirements.

R301.2.2.3.8.12 Floor Openings

When floor openings in the second or third floors exceed 15 percent of the ground floor square footage, garage space excluded, they shall be considered as large floor openings.

- 1) The gross floor area shall be the area bounded by exterior walls.
- 2) Openings for stairs and egress are excluded from the net floor opening area.
- 3) Perimeter interior walls bounding a large floor opening shall be considered structural and shall be subject to all requirements as such. If perimeter walls are not present below opening perimeter (i.e. beam and column system is used), the supporting structure shall be engineered.

AMEND Section R312.1.1 as follows:**R312.1.1 Retaining Walls**

Retaining walls 36" in height or greater are required to be designed by a licensed engineer and a plan submitted at the time of application for a permit. Height of the retaining wall shall be measured from the top of the footing to the top of the wall. A minimum of a 4 foot barrier (fence or guard) at the top of the wall may be required as determined by the Director of Code Enforcement.

RESIDENTIAL BUILDING CODE

AMEND Section R313.1 as follows:

EXCEPTION 1: Rename Exception to Exception 1.

EXCEPTION 2: An automatic residential fire sprinkler system is not required when there is a 2 hour wall between units.

DELETE R313.2 AND R313.2.1 in their entirety.**DELETE Section R401.3 and its Exception in their entirety and REPLACE as follows:****R401.3 Drainage and Foundation Elevation**

Surface drainage shall be diverted to a storm sewer conveyance or other approved point of collection that does not create a hazard. Lots shall be graded to drain surface water away from foundation walls. The finish floor (elevation) shall be nominal 10 inches above the exterior finish grade (ground) and the finish grade shall slope a minimum of 8% (1 in 12) away from foundation for a minimum of 3 feet for drainage.

DELETE Section R403.1.1 “Minimum Size” in its entirety and REPLACE as follows:**R403.1.1 Minimum Size**

Minimum size for concrete and masonry footings shall be as set forth in Table R403.1 and Figure R403.1(1). The footing width, *W*, shall be based on the load-bearing value of the soil in accordance with Table R401.4.1. All footings shall be at least 10 inches (255 mm) in thickness. Footing projections, *P*, shall be at least 2 inches (51 mm) and shall not exceed the thickness of the footing. The size of footing supporting piers and columns shall be based on the tributary load and allowable soil pressure in accordance with Table R401.4.1.

DELETE Section R403.1.4 “Minimum Depth” in its entirety and REPLACE as follows:**R403.1.4 Minimum Depth**

All footings shall bear on undisturbed or properly compacted soils a minimum of 13 inches (330 mm) below grade. When applicable the depth of footing shall also conform to Section R403.1.4.1 through R403.1.4.2.

DELETE Sections N1101.1 through N1101.3 and REPLACE with the following:**N1101.1 Scope**

This chapter sets forth the energy-efficiency related requirements for the design and construction of buildings regulated by this code.

Exception: Provided that they are separated by building envelope assemblies from the remainder of the building, portions of the building that do not enclose conditioned space shall be exempt from the building envelope provision, but shall comply with the provisions for building mechanical and service water heating systems.

RESIDENTIAL BUILDING CODE

N1101.2 Compliance for One and Two Family Dwellings

Compliance for one and two family dwellings shall be demonstrated by meeting the requirements of the 2015 Edition of the *ICC International Energy Conservation Code* for detached one and two family dwellings in Climate Zone 3A as found in Chapters 2, 3, 4, 5, and 6.

N1101.3 Compliance for Townhouses

Compliance for townhouses shall be demonstrated by meeting the requirements of the 2015 Edition of the *ICC International Energy Conservation Code* for residential buildings of Group R-2 or townhouses in Climate Zone 3A as found in Chapters 2, 3, 4, 5, and 6.

ADD Section E3405.8 as follows:**E3405.8 Weather Proof Panels**

Weather Proof Panels are not allowed in the City of Bartlett per Ordinance #93-14.

AMEND Section E3406.2 as follows:

DELETE phrase [except as otherwise provided in the code]. This is a reference to allow other than copper conductors. Conductors of material other than copper may be used from a transformer through to the electrical panel box when proper connections are made.

ADD Section E3406.2(A) as follows:

E3406.2(A) Aluminum and copper-clad aluminum conductors are not allowed beyond the panel or in the interior of a residential house.

ADD TO Section E3601 as follows:**E3601.8 Unprotected Services Conductors Length**

Service entrance conductors (without over current protection) shall not be extended more than 15 feet inside a building measuring horizontal from the point of entrance.

ADD TO Section E3702 as follows:

E3702.15 Any residential appliance or equipment rated at 1,000 watts and any electric motor of ½ H.P. (horse power) or larger shall be supplied by individual circuits of adequate capacity for the device to be connected. Receptacles installed in such circuits shall be single opening grounding type rated at 125% of the name plate current of the equipment to be connected, but in no case shall they be rated less than 20 amperes. Service outlets installed at heating equipment may be duplex outlets rated at 20 amperes.

RESIDENTIAL BUILDING CODE**ADD TO Section E3703 as follows:**

E3703.3(A) Electric washer-dryer combinations rated 5 KW or less may be wired on a 30 ampere circuit with a 30 ampere grounding type receptacle. The service demand shall be 20 amperes.

ADD TO Section E3706 as follows:**E3706.1(A) Weather Proof Panels**

Weather Proof Panels are not allowed in the City of Bartlett per Ordinance #93-14.

ADD TO Section E3901.4.2 as follows:

Exception: Receptacles are **NOT** required or allowed on moveable island counters without appliances (See Definitions below).

ADD to DEFINITIONS as follows:

MOVEABLE: Capable of being moved without being injured by one person or on wheels.

ADD Section E3910 as follows:**E3910 Fire Damage and Building Relocating**

Buildings moved from one location to another that is to be used as a single family dwelling shall meet the following minimum requirements:

E3910.1 Service entrance conductors shall be governed by new service rules.

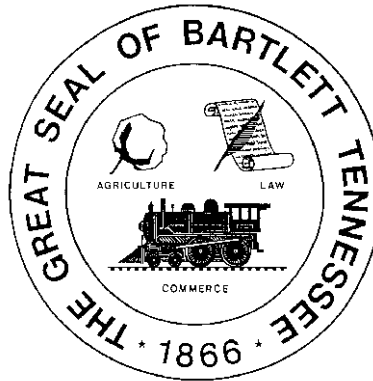
E3910.2 Kitchens shall have no less than two (2) circuits with a maximum of three (3) convenience outlets per circuit.

E3910.3 Lights and convenience outlets shall comply with existing branch circuit residential occupancies general requirements.

E3910.4 An inspection and written FIRE ruling must be obtained from the City of Bartlett Code Enforcement Office prior to commencing work on fire damaged jobs.

DELETE APPENDIX J IN ITS ENTIRETY AND REPLACE WITH THE FOLLOWING:**Appendix J-New Installations of Manufactured Homes**

New manufactured homes are required to be provided with curtain wall masonry around the perimeter of the structure. The masonry curtain wall shall be a minimum of 4 inches wide and shall give an appearance of other buildings in the area of the installation. Trailer type hitches are to be removed from the structure prior to installation of the curtain wall.



**MECHANICAL & GAS
CODE AMENDMENTS
TO THE

2015
INTERNATIONAL
RESIDENTIAL
CODE**

2015 INTERNATIONAL RESIDENTIAL MECHANICAL & GAS CODE AMENDMENTS

ADD THE FOLLOWING TO SECTION M1305.1.3

M1305.1.3 APPLIANCE IN THE ATTIC

Appliance access shall be accessible by a pull down stairway, permanent ladder or permanent stairway/no shuttle holes.

ADD THE FOLLOWING:

M1402.4 ROOMS CONTAINING FLAMMABLE, COMBUSTIBLE, OR NOXIOUS GAS

A separate and individual ventilation system which is not part of any other system shall be provided for ventilation of each room or space containing flammable vapors, noxious gases and flammable ducts or where serving incompatible materials.

ADD THE FOLLOWING:

M1411.3.1 #5

#5. Condensate drain lines from coil may be ¾ inch minimum with a maximum horizontal drain run of two (2') feet. Any drain exceeding two (2') feet shall be 1.25 inches. No tubing allowed. Contractor shall use approved DWV fittings.

ADD THE FOLLOWING:

M1411.3.2.1

Install PVC 90 degree elbow at ¾ drain pan line horizontal termination to outside.

EXHAUST SYSTEMS

Exhaust systems shall be exhausted to the outside per the code.

ADD THE FOLLOWING:

M1502.3.1 DRYER VENT TERMINATION

At termination of dryer exhaust, secure grill/louvers with screws.

ADD THE FOLLOWING:

M1502.4.2(A) UNDER SLAB EXHAUST

Under slab exhaust ducts shall be smooth wall schedule 40 pvc and terminate 12" above grade with damper and be non-screened.

ADD THE FOLLOWING:**M1503.1(A) EXHAUST HOOD**

Exhaust hood shall be installed for all ranges/clearance per manufacturer's instructions.

AMEND THE FOLLOWING:**M1602.2.1 RETURN AIR REQUIREMENTS**

All occupied rooms shall have a return sized accordingly for that space except for kitchen and bathroom. Undercut of doors do not count as a return.

AMEND THE FOLLOWING:**M1602.2.2 RETURN AIR PLENUM SEAL**

Seal all returns with 100% silicone rubber caulk/HVAC caulk.

ADD THE FOLLOWING:**M1602.2.3 RETURNS & COOKING EQUIPMENT**

No return shall be within ten (10') feet of cooking equipment.

RESIDENTIAL GAS CODE AMENDMENTS**ADD THE FOLLOWING:****G2413.1.1 GAS PIPING**

When the gas pressure is 0.5 pounds per square inch or less, all consumer gas pipe from the point of delivery of the first branch in the house piping shall not be less than one (1") inch in diameter. The minimum size of pipe outlets shall be ½".

ADD THE FOLLOWING:**G2415.4.1**

No threaded connectors may be used on piping in solid floors.

DELETE SECTION G2417.4.1 ENTIRELY AND SUBSTITUTE THE FOLLOWING:

G2417.4.1 METHOD OF TESTING

Low pressure (not in excess of 2 psi gauge) gas piping shall withstand a pressure of 30 psig for a period of not less than 10 minutes without showing any drop in pressure. All high pressure gas piping must have a minimum of 100 psig test. Higher pressure (medical gas) must stand at least 1.5 times normal working pressure for a period of 24 hours without showing any drop in pressure.

DELETE SECTION G2422.1.2.1 ENTIRELY AND SUBSTITUTE THE FOLLOWING:

G2422.1.2.1

Connectors shall have an overall length not to exceed 18 inches except for range and domestic clothes dryer connectors, which shall not exceed three (3') feet in length. Connectors shall not be concealed within, or extended through walls, floors, partitions, ceilings or appliance housing. A shutoff valve not less than the nominal size of the connector shall be installed ahead of the connector in accordance with section G2420.5. Connectors shall be sized to provide the total demand of the connected appliance.

ADD THE FOLLOWING:

G2432.1.1 DECORATIVE APPLIANCES

All fireplace log and starters shall be installed according to their listings and have a readily accessible manual shutoff valve within reach of and extraneous to the fireplace. A manual main shutoff valve shall be installed ahead of all controls including the pilot gas valve.

ADD THE FOLLOWING:

G2432.1.2 APPLIANCE CONNECTORS

Flexible connectors used outdoors shall be listed for outdoor use. Flexible connectors used in fireplaces and fire boxes shall be approved for such use or be stainless steel.

ADD THE FOLLOWING:

G2433.1.1 GAS LOG STARTER SUPPORT

Log starters shall have support installed on end of starter.

ADD THE FOLLOWING:**G2448.1.2 PROHIBITED WATER INSTALLATION**

Water heaters, with the exception of those having direct vent systems, shall not be installed in bathrooms and bedrooms or in a closet with access only through a bedroom or bathroom. However, water heaters of the automatic storage type may be installed as a replacement in a bathroom, when specifically authorized by the gas official providing they are properly vented and are supplied with adequate combustion air.

EXCEPTION: When a closet having a weather stripped solid door, with an approved door closing device has been designed exclusively for the water heater, and where all air for combustion and ventilation is supplied from outdoors.

ADD THE FOLLOWING:**G2450.1.1 ILLUMINATING APPLIANCES**

All illuminating gas appliances must have an accessible manual shut off valve within reach of and extraneous to the appliance.

ADD THE FOLLOWING APPENDICES:

Appendix A-Sizing & Capacities of Gas Piping

Appendix B-Sizing of Venting Systems Serving Appliances Equipped with Draft Hoods, Category I Appliance, and Appliances Listed for Use with Type B Vents

Appendix C-Exit Terminals of Mechanical Draft and Direct-Vent Venting Systems

Appendix D-Recommended Procedure for Safety Inspection of an Existing Appliance Installation

Appendix E-Manufactured Housing Used as Dwellings

ADD TO APPENDIX E AS FOLLOWS:**AE 307.1.1 TRAILER PARK PIPING**

Where information is not available on the location of the trailer supply connection, the gas riser to each trailer site should be placed in the rear one third section of the site and not less than 18' from the roadside wall of the trailer. It shall be located and protected or supported so as to minimize the likelihood of damage by moving vehicles. When the gas pressure at the terminal of the gas riser at each trailer site is .5 psig or less, the minimum size of the gas piping shall be one (1") inch for other than undiluted liquefied petroleum gases.

ADD THE FOLLOWING SECTION:

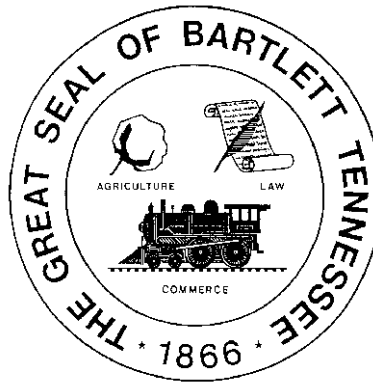
AE 307.1.2 CONNECTION OF TRAILER

Piping shall not be installed underground beneath manufactured homes or house trailers. Trailers shall be connected to the gas piping system with rigid pipe or listed connections of adequate size and installed so as to be protected against physical damage.

ADD THE FOLLOWING SECTION:

AE 307.1.3 LOCATION OF SHUT OFF VALVES

Outlets for individual manufactured homes or trailers shall be provided with a readily accessible manual shut off valve located outdoors at the trailer. Trailers shall be connected to the gas piping system with rigid pipe or listed connections for adequate size and installed so as to be protected against physical damage.



MECHANICAL CODE AMENDMENTS TO THE

2015 INTERNATIONAL MECHANICAL CODE

MECHANICAL CODE**AMEND Section 101.1 as follows:****101.1 Title**

These regulations shall be known as the Mechanical Code of the **City of Bartlett**, hereafter referred to as “this code.”

ADD Section 101.1.1 as follows:**101.1.1 References**

All references to the International Code Council Electrical Code are to be replaced with the 2014 National Electrical Code.

ADD 301.1 #1 as follows:**301.1 #1 Inspection**

All work concealed prior to inspection and or test shall be uncovered in its entirety for the inspector and subject to any reinspection fees.

ADD Section 301.7.1 as follows:**301.7.1 Location for Power Interruption**

Means for interrupting the electrical supply to the air conditioning/heating equipment or to its associated cooling tower shall in no case be installed farther than six feet (6') from the service side of the equipment.

ADD Section 301.15.1 as follows:

301.15.1 Engineered letter is required for installation of seismic restraints on mechanical systems.

ADD Section 303.4.1 as follows:**303.4.1 Protection Against Physical Damage**

In concealed locations where piping other than cast iron or galvanized steel is installed through holes or notches in studs, joists, rafters or similar members less than 1.5 inches from the nearest edge of the member, the pipe shall be protected by shield plates. Protective shield plates shall be a minimum of 0.062 inch thick steel and shall cover the area of the pipe where the member is notched or bored, and shall extend a minimum of 2 inches above sole plates and below top plates.

ADD Section 304.6.1 as follows:**304.6.1 Installation in Garages**

Gas-fired water heaters or central furnaces shall not be installed in residential or public garages. Combustion air ducts shall not terminate in a residential or public garage. Doors in garages accessing gas fired appliances in closets, furnace rooms, etc. shall be weather stripped to provide an air tight seal which will prevent gasoline vapors from entering the appliance closet or room.

MECHANICAL CODE**DELETE Section 306.3 Exception Entirely****ADD Section 306.3.1.1 as follows:****306.3.1.1 Mechanical Equipment in Attics**

Every attic or furred space in which mechanical equipment is installed shall be made accessible.

ADD Section 306.3.2 as follows:**306.3.2 Accessibility**

Attics shall be accessible by a pull-down stairway, permanent ladder or permanent stairway.

AMEND Section 306.5 by ADDING Items #11 and #12 as follows:

#11) Access to appliance units installed above drop ceilings, equipment height of 10 feet or more must have service platform on service side of equipment.

#12) A 120 volt, single phase, 15 or 20 ampere rated receptacle outlet shall be installed at a readily accessible location for the servicing of the heating, air conditioning and refrigeration equipment. The disconnecting means for heating, air conditioning and refrigeration equipment shall in no case be installed farther than 6 feet from the service side of the equipment.

ADD Section 307.2.1.1 through 307.2.1.3 as follows:**307.2.1.1 Condensate on Roof**

A roof top unit shall not spill on a roof unless there is a minimum of 350 square feet of roof area per ton of cooling capacity. The condensate discharge on the surface of the roof shall be a minimum of 40 feet from the nearest roof drain, gutter or downspout (existing only).

307.2.1.2 Governing Code

Mechanical code shall govern the installation and servicing of condensate, overflow, and flow-down drains from air conditioning, refrigeration, mechanical, and process systems. None of these shall be connected to the plumbing system, except through an approved indirect waste receptacle or house side of the active trap.

307.2.1.3 Air Gap

The air gap between the indirect waste and the building drainage system shall be at least twice the effective diameter of the drain served and shall be provided by the following:

- 1) Extending the indirect waste pipe to an open, accessible floor drain, floor sink, or hub drain, which is properly trapped and vented. The indirect waste shall terminate a sufficient distance above the floor level rim to provide the required air gap.
- 2) Mechanical contractor may connect to indirect waste opening provided by plumbing contractor by one of the following:
 - a) A direct connection may be made with an approved flexible coupling.
 - b) Air gaps shall be required between mechanical contractor's drain and waste receptacle in all food handling establishments.

MECHANICAL CODE

ADD Section 307.2.2.1 as follows:**307.2.2.1 Drain Lines**

Condensate drain lines from coil drip pan outlet may be $\frac{3}{4}$ inch minimum with a maximum horizontal run of two feet (2'). Any drain exceeding two feet (2') shall be a minimum of 1 $\frac{1}{4}$ inches. No tubing allowed. Contractor shall use approved DWV fittings. $\frac{3}{4}$ " drain pan lines shall be allowed to be connected for two drain pans only. Third drain pan shall be installed separately.

DELETE Section 307.2.3 Item #1 entirely and ADD #4 as follows:

1. Auxiliary drain pans shall be installed under all coils containing a liquid or a gas on which condensation will occur or units containing coils located in attic spaces, suspended ceiling spaces, furred spaces or any area where damage could occur to the building, building contents, or building occupants due to an overflow of the equipment drain pan or a stoppage in the condensate drain piping. Auxiliary pans shall have a minimum depth of 1 1/2 inches and shall be not less than 3 inches larger than unit or coil dimensions in width and length and shall be constructed of not less than 2 gauge galvanized sheet steel or of high impact plastic which must have prior approval of the Chief Mechanical Inspector. No PVC or high-impact plastic shall be installed in any space used as part of a return air system. A separate drain line shall be extended from this pan terminating at a conspicuous point to serve as an alarm that the regular drain is restricted. A water level detector or float switch to control overflow may be used in auxiliary drain pans in lieu of a drain line, when approved by the Chief Mechanical Inspector.
4. Evaporator coils located under a house shall have an emergency drain pan installed. A separate drain line shall be run to a conspicuous point to indicate a problem with the primary drain. A float switch may be used in lieu of a drain line when approved by the Chief Mechanical Inspector.

ADD to Section 307.2.3 #5 as follows:

5. When condensate drains cannot be connected as per the technical codes, a design shall be submitted by a licensed mechanical engineer for approval by the Code Official. French drain subject to prior approval. When condensate drains cannot be connected as per the technical codes, they shall have prior approval by the Chief Mechanical Inspector.

ADD to Section 307.2.3 #6 as follows:

6. Where a drain pan line cannot be installed for upflow furnaces with returns below furnaces a float switch shall be installed on the secondary drain at coil or separate condensate line to be ran to an auxiliary drain pan with a float switch installed.

MECHANICAL CODE

ADD to Section 307.2.3 #7 and #8 as follows:

7. Install nail guards to protect drain pan lines where punctures might occur. Guards shall be a minimum of 0.062 inch thick steel.
8. Install PVC 90 degree elbow at ¾ inch drain pan line horizontal termination to outside.

ADD Section 504.6.1 as follows:**504.6.1 Domestic Clothes Drying Ducts**

Under slab dryer ducts shall be smooth wall schedule 40 PVC and terminate 12" above the exterior grade.

ADD Section 506.1.1 as follows:**503.1.1 Commercial Kitchen Hood Ventilation System Ducts**

Commercial kitchen hood ventilation system ducts and exhaust equipment shall comply with Section 506 or NFPA 96 (most current edition).

ADD Exception to 507.2.3.1 as follows:

Exception: Specialty use requesting to use a domestic stove with 4 or less burners with a residential type hood vented to the outdoors with a residential fire suppression system must have prior approval of the Chief Mechanical Inspector.

ADD Section 507.2.4.1 as follows:**507.2.4.1 Spark Arresters**

All solid fuel cooking equipment must have spark arresters at hood.

ADD Section 606.2.1.1 as follows:**606.2.1.1 Smoke Detectors-2000 CFM's or Less**

Recirculating air systems with a fan capacity of 2000 cfm's or less but serving an area used for egress shall have automatic shut down.

ADD Section 918.7 as follows:**918.7 Return Air Requirements**

All habitable space shall have a return sized accordingly for that space.

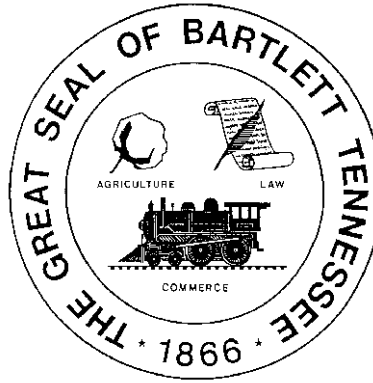
Exception: All prohibited sources in accordance with Section 918.6.

MECHANICAL CODE**ADD Section 1101.3.1 as follows:****1101.3.1 Striker Plates**

Install striker plates with a minimum of 0.062 thickness/steel to protect refrigerant lines where punctures might occur.

ADD the Following:

Chapter 15 Referenced Standards.



**PLUMBING CODE AMENDMENTS
TO THE**

**2015
INTERNATIONAL
PLUMBING
CODE**

Attachment: 2015 Plumbing Amendments (2395 : Ord 18-06, international code adoption)

2015 International Plumbing Code with City of Bartlett Amendments

Delete section 106.1 and replace with the following:

{A} 106.1 When Permit required: A Licensed Contractor who desires to construct, enlarge, alter, move, demolish or change the *occupancy* of a building or structure, or to erect, install, remove, convert or replace any plumbing system, the installation of which is regulated by this code, or to cause any such work to be performed, shall first make application to the Code Official and obtain the required permit for work.

DEFINITIONS

ADD THE FOLLOWING TO SECTION 202:

Administrator. Whenever the term “Administrator” is used in the City of Bartlett Plumbing Code herein adopted, it shall mean the Administrator of the City of Bartlett Construction Code Enforcement.

Administrative Authority. Whenever the term “Administrative Authority” is used in the City of Bartlett Plumbing Code herein adopted, it shall mean the Building Official.

Air Conditioning Unit. The condensate or waste from an air conditioning unit shall be classified as a plumbing fixture and shall connect to the plumbing system as an indirect connection as per amendments of Chapter 3 of this Code.

Board of Appeals. Whenever the term “Board of Appeals” is used in the City of Bartlett Plumbing Code herein adopted, it shall mean the Code Appeals Board of Bartlett, Tennessee.

Building Department. Whenever the term “Building Department” is used in the technical codes herein adopted, it shall mean the Office of Construction Code Enforcement of Bartlett, Tennessee.

Building Official. The officer or the other designated authority, or their duly authorized representative, charged with the administration and enforcement of the technical codes.

Chief Appointing Authority. Whenever the term “Chief Appointing Authority” is used in the technical codes herein adopted, it shall mean the Mayor of the City of Bartlett, Tennessee.

City Municipality or Governing Body. Whenever the word “City” or “Municipality” or “Governing Body” is used in the technical codes herein adopted, it shall mean the City of Bartlett, Tennessee.

International Building Code. Whenever the words “International Building Code” are used in the codes herein adopted, they shall mean the 2015 International Building Code with Local Amendments.

PLUMBING CODE

International Electrical Code. Whenever the words “International Electrical Code” are used in the codes herein adopted, they shall mean the 2017 National Electrical Code (NEC) with Local Amendments.

International Fuel Gas Code. Whenever the words “International Fuel Gas Code” are used in the codes herein adopted, they shall mean the 2015 International Fuel Gas Code with Local Amendments.

International Mechanical Code. Whenever the words “International Mechanical Code” are used in the codes herein adopted, they shall mean the 2015 International Mechanical Code with Local Amendments

International Plumbing Code: Whenever the words “International Plumbing Code” is used in the codes herein adopted, they shall mean the 2015 International Plumbing Code with Local Amendments.

Licensed Contractor. Licensed Contractor will be the same as Plumbing Contractor as defined by the State of Tennessee Licensing Board.

Master Plumber. The term “Master Plumber” as used in the Technical Codes is defined to be any individual duly licensed by the State of Tennessee or Shelby County Office of Construction Code Enforcement with all the privileges afforded a journeyman plumber and with the added privilege of engaging in the plumbing business solely or in supervision of others.

Plumbing Contractor. Whenever the term “Plumbing Contractor” is used in the Technical Codes herein adopted, it shall mean a plumbing contractor who holds a current license issued by State of Tennessee or Shelby County Construction Code Enforcement.

Plumbing Section. Whenever the term “Plumbing Section” is used in the City of Bartlett Plumbing Code herein adopted, it shall mean the Plumbing Section of the City of Bartlett Office of Construction Code Enforcement.

State of Tennessee Licensed Plumbing Contractor. Defined as a Contractor licensed by the State of Tennessee who is not required to have a journeyman plumber or apprentice plumber on the job site. Also, employees are not required to be registered.

Workmanship. -Workmanship shall mean that the plumbing system be installed uniform in slope, plumb, and level (as required) without stress or strain to piping or structure as required by Other sections of the Code. Valves, pipes and fitting shall be installed in correct relationship to the direction of flow.

AMEND SECTION 305.6.1 AS FOLLOWS:

305.4.1 Sewer depth. - Building sewers that connect to private sewage disposal systems shall be a maximum of 12 inches below finished grade at the point of septic tank connection. Building sewers shall be a minimum of 12 inches below grade.

AMEND TABLE 308.5 AS FOLLOWS:

Table 308.5 Copper or copper-alloy piping to be supported vertical at mid-story.
Copper or copper-alloy tubing 1-1/4 inch in diameter and smaller to be supported vertical at mid-story.
Copper or copper-alloy tubing 1-1/2 inch in diameter and larger to be supported vertical at mid-story.

ADD SECTIONS 314.2.1 (A),(B), & (C) AS FOLLOWS:

314.2.1(A) the approved place in section 314.2.1 shall be an active trap or vent pipe.

314.2.1(B) the Plumbing contractor shall provide a trap within two feet of equipment.

314.2.1(C) Pumped condensate. The pump shall connect to the trap supplied by the plumbing contractor

AMEND SECTION 417.3 AS FOLLOWS:

417.3 Shower Waste Outlet. - Waste outlets serving showers shall be at least 2 inches in diameter and, for other than waste outlets in bathtubs, shall have removable strainers not less than 3 inches in diameter with strainer openings not less than 0.25 inch in minimum dimension. Where each shower space is not provided with an individual waste outlet, the waste outlet shall be located and the floor pitched so that waste from one shower does not flow over the floor areas serving another shower. Waste outlets shall be fastened to the waste pipe in an approved manner.

ADD SECTION 423 AS FOLLOWS:

423.4 Pedicure Tubs. - Pedicure tubs shall be trapped as a sanitary fixture on gravity drain types. When they have a pump discharge, they must be hard piped to a deep seal trap or wash machine box. When tub filler is below rim, a double check valve is required.

ADD SECTION 427.1.1

427.1.1 Floor sinks shall be installed ½" A.F.F.

ADD SECTION 503.3 AS FOLLOWS:

503.3 Water Connections to Water Heaters. - All water connections to water heaters shall be made with material from Table 605.4. Flexible connectors shall not be used. Water cutoff valve shall not be located above tank cylinder.

-

AMEND SECTION 504.7.1 AS FOLLOWS:

504.7.1 Pan Size and Drain - The pan shall be not less than 4 inches deep when installed on the first floor and shall be of sufficient size and shape to receive all dripping or condensate from the tank or water heater. The pan shall be drained by an indirect waste pipe having a minimum diameter of 1 inch or the outlet diameter of the required relief valve, whichever is larger. When the water heater is installed **in the attic, a pan shall not be less than 6 inches and shall be 36" round or 36"X36" square.** T&P valve piping shall be corrosion resistant and have a minimum pressure rating of 100 psi at 180 degree Fahrenheit as per Section 605.4. When multiple pan drains are piped together. The drain pipe from junction to termination will be increased one pipe size for each additional water heater connected to the drain. The maximum number of water heater pan drains shall be limited to four, with the maximum drain being two inches in diameter.

DELETE SECTION 504.7.2 and replace entirely with the following:

504.7.2 Pan Drain Termination. - The pan drain shall extend full-size and terminate over a suitably located indirect waste receptor or floor drain or extend to the exterior of the building and terminate not less than 6 inches (152 mm) and not more than 24 inches (610 mm) above the adjacent ground surface. A 90-degree ell turned down must be installed at the termination of the pan drain. The termination must be visible.

AMEND SECTION 603.1 AS FOLLOWS:

603.1 Size of Water Service Pipe. - The water service pipe shall be sized to supply water to the structure in the quantities and at the pressures required in the Code. The minimum nominal inside diameter of water service pipe shall be 1 inch.

ADD SECTION 603.1.1 AS FOLLOWS

603.1.1 PVC Water Service. - PVC underground water service pipe shall have a minimum wall thickness of SCH. 40 with permanent identification markings.

AMEND TABLE 605.3 AS FOLLOWS

Table 605.3 Delete all references to Type M copper, WM copper .

AMEND TABLE 605.4 AS FOLLOWS

Table 605.4 Delete all references to Type M copper, WM copper .

ADD THE FOLLOWING**605.4.1 Water distribution piping:**

All concealed water piping within or under a structure shall be type 'L' or higher grade copper, cpvc or cross-linked Polyethylene as approved in table 605.4 of the IPC.

DELETE The references to Atmospheric Vacuum breaker and pressure vacuum breaker from SECTION 608.16.5

608.16.5 Pool water supply there shall be no direct connection between any potable water and a circulation pump, filter, water softener or other apparatus that come into contact with the pool water without going thru a backflow preventer.

ADD SECTION 608.17.9 AS FOLLOWS:

608.17.9 Wells. - All wells serving irrigation systems shall have a reduced press backflow preventer protecting the well from backflow or back pressure.

ADD SECTION 702.3.1 AS FOLLOWS:

702.3.1 Building Sewer Pipe. - Delete and substitute with the following: No building sewer shall be less than 4 inches in size with the exception of forced lines. When plastic pipe is used on lines 4 inches and smaller, it shall have a wall thickness of at least than SCH. 40.

AMEND TABLE 709.1 AS FOLLOWS:

T709.1 Shower Trap - Minimum size of trap shall be 2”.

ADD SECTION 802.1.4.1 through 802.1.4.6 as FOLLOWS

Waste Water Disposal, Generally

802.1.4.1 All waste water from public, semi-public, or permanent private swimming pools and wading pools shall have an indirect connection to the sanitary sewer and/or such connections and type of disposal shall be as determined by the Health Department.

802.1.4.2 No waste water from a permanent or temporary type swimming pool or wading pool shall drain any water on any premise so as to permit waste water to run on adjoining premises.

802.1.4.3 Pool contractor shall furnish home owner with a flexible hose to discharge waste water to sewer connection for above ground pools.

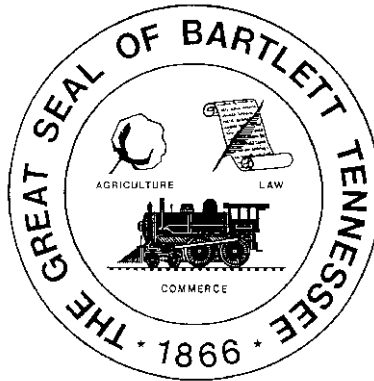
802.1.4.4 In ground pools shall be permanently connected to the sanitary sewer.

802.1.4.5 Waste and Deck Drain Piping. - Waste and deck drain piping for pools shall comply with the provisions set forth in Chapters 3 and 8 of the Joint Plumbing Code, as applicable to building sewers and underground piping within building.

802.1.4.6 Any deck drain located within seven feet of pool edge shall waste to sanitary system through catch basin. All others shall waste to grade or storm system. Deck shall be designed so that surface water, other than that within the seven foot limit, shall not enter sanitary system.

AMEND SECTION 904.1 AS FOLLOWS:

904.1 Roof Extension. All open vent pipes that extend through a roof shall be terminated at least 10 inches above the roof, except that where a roof is to be used for any purpose other than weather protection, the vent extension shall be run at least 10 feet above the roof.



ELECTRICAL CODE AMENDMENTS TO THE

2014 NATIONAL ELECTRICAL CODE

AND THE

2015 INTERNATIONAL RESIDENTIAL CODE

REQUIRED LICENSES TO DO WORK IN THE CITY OF BARTLETT

ADD Article 91:

91 Required

All contractors that do work in the city limits of Bartlett will be required to have either a Shelby County Electrical License or a State of Tennessee Electrical License (no LLE) as well as a Bartlett Business License before a permit can be acquired.

91.1 Bartlett Business License Fees

A Bartlett Business License can be obtained in the Tax and Finance Office at Bartlett City Hall for \$20.00 or 1/15 of 1%. Bartlett Business Licenses are to be renewed on an annual basis.

91.2 Low Voltage Contractors

When a Low Voltage Contractor does work in the city of limits of Bartlett they will be required to have a Shelby County Low Voltage Electrical License or a State of Tennessee Electrical License that includes Low Voltage (no LLE) and a Bartlett Business License before a permit can be acquired.

91.3 Workmanship

All wiring shall be made in a neat and workmanlike manner.

ADD Article 92:

92 Permits

All electrical work requiring a permit must be applied for by a duly licensed and bonded contractor.

ADD Article 93:

93 Final Electrical Inspection

All light fixtures must have bulbs installed in all sockets of each fixture meeting the manufacturers recommended wattage before a final will be approved.

AMEND Article 200 to Article 100 Definitions:

100 Definitions

Administrator-Whenever the term “Administrator” is used in the Technical Codes herein adopted, it shall mean the Administrator of The City of Bartlett Code Official.

Administrative Authority-Whenever the term “Administrative Authority” is used in the Electrical Code herein adopted, it shall mean the Code Official.

ELECTRICAL CODE

Approved: Acceptable to the authority having jurisdiction-Whenever the term “approved” is used in the NEC, it shall mean the Code Official.

Building Contractor Registration-The term Building Contractor Registration as used in the Building Code is defined to include any person, firm, or corporation whose principal business is to, or performing, any of the following: erect, construct, enlarge, alter, repair, move, improve, convert, or demolish any building or structure in the applicable jurisdiction, or cause the same to be done.

Building Department-Whenever the term “Building Department” is used the Technical Codes herein adopted, it shall mean The City of Bartlett, Tennessee.

Building Official-The officer or other designated authority, or their duly authorized representative, charged with the administration and enforcement of the Technical Codes.

Chief Appointing Authority-Whenever the term “Chief Appointing Authority” is used in the Technical Codes herein adopted, it shall mean the Mayor of The City of Bartlett, Tennessee.

City, Municipality, or Governing Body-Whenever the word “City” or “Municipality” or “Governing Body” is used in the Technical Codes herein adopted, it shall mean The City of Bartlett, Tennessee.

Commercial, Industrial and Institutional Electrical Maintenance Electrician-The term Commercial, Industrial and Institutional Electrical Maintenance Electrician is defined to include any person having in his charge the maintenance of electrical systems plants, buildings, or places.

Electrical Contractor-Whenever the term “Electrical Contractor” is used in the Electrical Code herein adopted, it shall mean an Electrical contractor who holds a current license issued by the Office of Construction Code Enforcement of Memphis & Shelby County or a properly registered Certified State Contractor.

Electrical Contractor, Certified-Certified Electrical Contractor is defined as an electrical or specialist contractor who has received a license from the Tennessee State Contractor Licensing Board after passing an examination to qualify for certification as an electrical or specialist contractor and complied with the registration procedure of the State of Tennessee.

Electrical Fixture Installer-The term Electrical Fixture Installer is defined to include any person having a license to engage in such business which shall authorize the holder thereof to secure permits only for assembling, installing and wiring of electric light fixtures, fixtures to be attached only to such outlets as have been properly installed by a licensed Electrical Contractor. Every Electrical Fixture Installer shall be required to have an Electrical Fixture Installer’s license from the Code Official of Memphis & Shelby County.

Electrical Section-Whenever the term “Electrical Section” is used in the Electrical code herein adopted, it shall mean the Electrical Section of The City of Bartlett Code Enforcement.

Electrical or Specialist Contractor-The term Electrical or Specialist Contractor as used in the Technical Codes is defined to include any person, firm, or corporation properly licensed or registered to engage in the business of installing, erecting, altering, repairing or contracting to install, erect, alter or repair electric wires, conductors, material, machinery, apparatus or systems used for the transmission of electrical power or electric light, heat, power, control or signal purposes.

Elevator Installer-The term Elevator Installer is defined to include any person who is licensed by the Code Official to install, service, alter or repair elevators of any type where electricity is used as a motive power. Each Elevator Installer shall be required to have an Elevator Installer’s License from the Board.

ELECTRICAL CODE

Employee-Whenever the word “Employee” is used in the Technical Codes herein adopted, it shall mean a person working directly for a licensed contractor for wages or salary subject to federal and/or state payroll tax laws.

Employment-Employment shall be defined as set forth in the rules and regulations of the United States Internal Revenue Service.

Industrial Plant Electrician-The term Industrial Plant Electrician is defined to include any person licensed and regularly employed by an industrial manufacturing plant operated in the County for the purpose of maintaining the existing electrical equipment of said plant. Every Industrial Plant Electrician shall be required to have an Industrial Electrician license.

Licensed Contractor-Licensed Contractor will be the same as Contractor as defined by State of Tennessee Licensing Board, and the Technical Boards.

Master Electrician-The term Master Electrician as used in the Technical Codes is defined to include any duly certified person having the general charge and supervision of the business of an Electrical Contractor, whether on his own account, or as the manager or superintendent of a licensed Electrical Contractor. Every Master Electrician shall be required to have a Master Electrician’s license issued by the Code Official of Memphis & Shelby County.

Mechanic Elevator Constructor-A Mechanic Elevator Constructor is defined as an individual with no less than 4 years experience in the physical installation of elevators, hoists, dumbwaiters, and the wiring related thereto as described under JEC Section 308.

(Add Definition)

Moveable -Capable of being moved by one person without causing damage to floor. *(Island on wheels)*

National Electrical Code-Whenever the word “National Electrical Code” is used in the Technical Codes herein adopted, it shall mean the National Electrical Code and Local Amendments and will be known as the Electrical Code of The City of Bartlett.

Residential Electricians-The term Residential Electrician as used in the Technical Codes is defined to include any person having the general charge of supervision of the business of installing, erecting or repairing electrical wires, conductors, moldings, conduit, apparatus, devices, systems, or instruments for single family or two-family dwellings only, whether on his/her own account or as the manager or superintendent of a Licensed Residential Electrical Business.

Right of Control-When the term “Right of Control” is used, it shall be understood to mean right of control in accord with Tennessee Law, statutory and common, relating to partnership, and business law.

State of Tennessee Certified Licensed Contractor (E, M, P)-Defined as a Contractor Licensed by the State of Tennessee who is not required to have a journeyman or apprentice on the job site. Also, employees are not required to be registered.

Supervising Sign Installer-The term supervising Sign Installer is defined to include any person licensed to assemble, install, alter, repair, and service illuminated signs, including outdoor on-premise signs or the secondary wiring required for indoor signs such as neon and outline lighting and the assembling, installing and wiring of electric light fixtures where such fixtures can be attached to existing outlets which have been properly installed by a licensed, bonded, and insured Electrical Contractor. All such work shall be performed in strict accordance with the Electrical Code and the NEC.

Wiring Definition-Wiring, as described in this section, shall mean the service entrance conduit and conductors, busways, bus bars or other devices connecting an overhead or underground source of power to the electrical metering equipment, and all equipment, apparatuses, conductors, busways, bus bars, and other items connected to the load side of the electrical metering equipment or main disconnect switch(es).

ELECTRICAL CODE**101.0 Tense, Gender and Number**

Words used in the present tense include the future. Words in the masculine gender include the feminine and neuter. Words in the feminine and neuter gender include the masculine. The singular number includes the plural and the plural number includes the singular.

(Add Section)**COMMERCIAL/ INDUSTRIAL INSTALLATIONS****ADD Article 210:****210 Wiring Methods for Living Quarters in Commercial Occupancies**

Living quarters located in connection with commercial building shall be wired in accordance with requirements for the commercial portion and may have separate meters.

ADD the following Articles:**210.26 General Wiring Requirements; Ampacity of Circuits and Number of Outlets per Circuit**

210.26(A) Circuits supplying convenience outlets, lighting or appliances shall have a minimum capacity of 20 amperes.

210.26(B) Not more than six convenience outlets or floor box receptacles, single or duplex shall be connected to on 120-volt circuit. Convenience outlets shall not be installed on lighting circuits.

ADD New Article 220.16(C):**220.16(C) Responsibility for Service and Feeders; Designing, Installing, or Adding Electrical Load**

Any person, firm or corporation designing, installing or adding load to an existing electrical system shall be responsible that the main service conductors, main service equipment and feeders on which the additional load is added shall be of the proper size for the total connected load as required by the Electrical Code.

(Revise Section)**ADD New Article 230.28(C):**

230.28(C) A 2" rigid metal conduit or 2" IMC conduit will be the minimum size allowed for an overhead service mast when used as the service attachment device. The conduit shall be securely mounted to withstand a minimum pull of 2,000 pounds.

(Revise Section)**ADD New Article 230.2 (F)(G):****230.30 Marking and Labeling of Service Equipment; Devices to be Identified**

230.30(F) The service disconnecting means meters for multiple occupancy buildings shall be legibly and permanently marked showing occupancy or apartment designation.

ELECTRICAL CODE

230.30(G) Each meter of all multiple meter installation shall be permanently and legibly identified with a tag showing the occupancy designation and located so as to be visible after installation in a manner acceptable to MLGW.

ADD the following New Articles:

230.70(A) (1) (a) Service Entrance Conductors without Over Current Protection

Service entrance conductors without over current protection shall not extend more than 15 feet inside a building measured from the point of entrance.

230.201 Service and Feeder Requirement in Excess of 600 Volts; Design Requirements

230.201(A) System installed by contractors for private owners above 600 volts shall be designed by a Registered Professional Engineer in accordance with the requirement of MLGW and the NEC.

230.201(B) The plans of such systems shall be approved by the Building Official and MLGW prior to installation.

(Delete Section):

~~**230.213 Service Sizes over 600 Amperes**~~

~~Service conductors to an overhead secondary shall terminate in a busway weather head when the ampacity requirement is in excess of 600 amperes. Lugs shall be provided to meet the requirements of MLGW and the weather head busbars shall meet all requirements of the NEC.~~

~~**Exception:** When proper ampacity can be provided with two conductors per phase not larger than 750 KCMIL the bushing may be omitted.~~

(Revise Section):

300.4(A) Wiring Methods Inside Buildings where the Voltage is less than 600 volts

In order to provide a greater degree of protection from electrical fires, all electrical wiring for lighting, receptacles, appliances, power and controls in construction, alteration or repair of buildings shall be installed in rigid or intermediate metallic conduit, electrical metallic tubing, surface metal raceway, under floor raceway, wire way, busway, MC Cable, Rigid PVC, ENT, or other approved wiring methods.

~~**DELETE Article 310.2(B) and REPLACE with the following:**~~

~~**310.2(B)** Conductor Material shall be of copper.~~

~~**310.2(C)** Aluminum and copper-clad aluminum shall not be allowed.~~

ADD the following New Article:

310.104 (1) Aluminum conductors shall be permitted under any of the following conditions:

1. Indoor Installations.

(a) Sizes No, 1/0 AWG and larger

DELETE the following Articles and REPLACE with:

Delete Article 320 of NEC and replace with the following:

320 Armored Cable shall not be used.

ELECTRICAL CODE**Delete Article 322 of NEC and replace with the following:**

322 Flat cable assemblies shall not be used.

Delete Article 324 of NEC and replace with the following:

324 Flat conductor cable shall not be used.

ADD Article 680.20(A):**680.20 (A) Pool Alarms**

As of January 1, 2011, Tennessee Code Annotated Title 68, Chapter 14 requires a pool alarm to be installed on any structure that is intended for swimming or recreational bathing and contains water over thirty-six inches (36”) deep. This includes, but is not limited to in-ground, above ground and on-ground swimming pools, hot tubs, and non-portable spas (T.C.A. 68-14-802 (3)).

A “pool alarm” means a device which emits a sound of at least fifty (50) decibels when a person or an object weighing fifteen (15) pounds or more enters the water in a swimming pool. But shall not include swimming protection alarm devices designed for individual use, such as an alarm attached to a child that sounds when the child exceeds a certain distance or becomes submerged in water (T.C.A. 68-14-802 (1)).

Each person, enterprise, agency or entity that purchases or acquires a swimming pool to be installed after the effective date of this act shall install a pool alarm before using or making available for use such swimming pool (T.C.A. 68-14-804).

When an electrical inspection is required for the installation of a swimming pool, the electrical inspector shall not give final approval for the electrical wiring unless a properly functioning swimming pool alarm has been installed (T.C.A. 68-14-805 (a)).

No local government shall issue a building permit for the construction or substantial alteration of a swimming pool located at a residential dwelling unless the project calls for a functioning swimming pool alarm to be installed prior to the completion of the construction project (T.C.A. 68-14-805 (b)(1)).

It is an offense for any person, firm, association or corporation to knowingly accept a building permit for a swimming pool located at a residential dwelling unless a functioning swimming pool alarm will be installed prior to the completion of the construction project (T.C.A. 68-14-805 (b)(2)).

701.2.1.1 Exception 1: See City of Bartlett Ordinance # 93-14, Codified Ordinance # 09-0604 (Weather Proof Panels). Except by special permission from the City of Bartlett Director of Code Enforcement and the City of Bartlett Electrical Inspector.

IRC CHAPTER 34-43 AMMENDMENTS TECHNICAL RULES APPLICABLE TO RESIDENTIAL OCCUPANCIES (ONE & TWO FAMILY DWELLINGS)

Add Section:

3402.4 Wiring Penetrations All wiring penetrations of top plates shall be sealed with caulk or other sealing material.

Add Section:

3405.8 Weather Proof Panels Weather proof panels are not allowed in Bartlett as per City Of Bartlett Ordinance #93-14, Codified Ordinance #09-0604

Add Section:

3601.8 Unprotected Service Conductors Length Service entrance conductors without over current protection shall not be extended more than 15 feet inside a building measuring horizontal from the point of entrance.

Add To Section 3702:

3702.14 Any residential appliance or equipment rated at 1000 watts and any electric motor of $\frac{1}{2}$ horse power or larger shall be supplied by individual circuits of adequate capacity for the device to be connected. Receptacles installed in such circuits shall be single opening grounding type rated at 125% of the name plate current of the equipment to be connected, but in no case shall they be rated less than 20 amperes. Service outlets installed at heating equipment may be duplex outlets rated at 20 amperes. (Example: Microwave)

Add To Section 3703:

3703.3(A) Electric Washer-Dryer Combinations. - Electric washer-dryer combinations rated 5KW or less may be wired on a 30-ampere circuit with a 30 ampere grounding type receptacle. The service demand shall be 20 amperes.

Add To Section 3706:

3706.1 Weather Proof Panels Weather proof panels are not allowed in Bartlett as per City Of Bartlett Ordinance #93-14, Codified Ordinance #09-0604

Add Section:

3802.2.2.3 Installation Requirements; Cable Installation

General. - Assemblies with conductors smaller than No. 8 AWG must be run through bored holes, except that in attics where the distance between the top of the ceiling joist and bottom of rafters is two feet or less, the cable may be secured directly to structural members.

Add Section:

3802.2.2.4 Truss Roof Construction Installation. - In truss roof construction, cable assemblies with conductors smaller than No. 8 AWG may be secured to the bottom of top chord trusses or may be secured to the top of the bottom chord of trusses and/or may be secured to other structural members, except that protection for cable assemblies shall be required within 6 feet of the nearest edge of scuttle hole or attic entrance. Nominal 2 x 4 truss members shall not be bored for cable assemblies.

ELECTRICAL CODE

Add Section:

3802.2.2.5 Securing Methods for Cable. - Service entrance cable and non-metallic sheathed cable, 8 AWG or larger, may be secured directly to permanent structural members on attics and lower edges of joists under houses and unfinished basements. Where distance between ceiling joist and bottom rafters is two feet or less in attics, cable may be run on top of joists or lower edges of roof rafters. Where cable is run parallel to joists, it shall be secured at intervals not exceeding 4-1/2 feet. Where cable is run across joists, it shall be secured on every other joist.

Add To Section 3901:

3901.4.2 Exception Island Receptacles. Receptacles are not required on moveable island counters without appliances. (SEE DEFINITIONS)

Add Section 3910:

3910 Fire Damage and Building Relocations Buildings moved from one location to another that are to be used as a single family dwelling shall meet the following requirements:

3910.1 Service entrance conductors shall be governed by new service rules.

Add Section:

3910.5 An inspection and written FIRE RULING must be obtained from the City Of Bartlett Code Enforcement Office prior to commencing work on fire damaged jobs.

Add Section:

IRC R314.4 Power for Smoke Detection Circuits Smoke Detectors required by the International Residential Code and installed within dwelling units shall not be connected as the only load on a branch circuit. Such detectors shall be supplied by branch circuits having lighting loads consisting of lighting outlets in habitable spaces.

Chapter 17- Technical Rules Applicable To Residential Occupancies (One & Two Family Dwellings)

Section 1701 General Requirements

1701.1 Applicability – Chapter 17 shall apply to all one- and two-family dwellings except that sections 1703 and 1711 shall not apply where the prescriptive requirements of the NEC are met. Where the feeder and service loads are calculated in accordance with the NEC, the load calculations shall be submitted with the permit application.

1701.2 ARC Fault Protection. Arc Fault Circuit Interrupter protection shall not be required for bathrooms, garages, and unfinished basements; and for individual branch circuits supplying refrigeration equipment.

Section 1701.3 Additional Load For Existing Occupancies – On existing residential occupancies where the main service to each dwelling consist of No. 8 AWG conductors, additional load may be added without increasing the service conductor size, provided the sum of the existing load and additional load as computed shall not exceed 40 amperes per phase or leg.

Section 1703 - Load Calculations

1703.1 General - The load for services and feeders shall be permitted to be calculated in accordance with this section in lieu of the methods required by Article 220 of the National Electrical Code. Where this method is used the installation shall comply with all of the provisions of this Chapter.

1703.2 General Purpose Circuits - The service conductors, feeder and service equipment in single and two family residential occupancies, for general purpose circuits shall have a capacity of not less than 10 amperes for each of the first six 120 volt 2-wire branch circuit; not less than 5 amperes for the next six 120 volt 2-wire branch circuits, and all other 120 volt 2-wire branch circuits 13 and over shall be computed at 3.5 amperes each.

1703.3 Addition Of Load - On existing jobs where additional load is being installed, services, feeders, and service equipment shall be increased to provide for the additional load.

1703.4 Range Service Requirements - Where the total connected single-family range does not exceed 17 KW, a service and/or feeder demand of 35 amperes may be used. Conductors supplying outlets for ranges other than built-in type shall be of sufficient size for the range connected, but in no case shall they be smaller than number 8 copper (AWG) rated at 50 amperes. Receptacles used for disconnecting means shall be rated at 50 amperes and supplied by a 50-ampere overcurrent device. Cook tops may be wired with #10 conductors and protected by 30 ampere over current devices.

1703.5 Electric Washer-Dryer Combinations - Electric washer-dryer combinations rated 5KW or less may be wired on a 30-ampere circuit with a 30 ampere grounding type receptacle. The service demand shall be 20 amperes.

1703.6 Spare Circuits For Lighting And Appliances - Spare lighting and appliance branch circuits shall be computed as circuits in use.

1703.7 Other Spare Circuits - Spare circuits for loads other than lighting and appliances shall be computed on the basis of their intended use, or where the future load is not known, the average of the connected load of similar circuits in use on the premises.

1703.8 Other Loads – Loads for appliances and equipment not listed in this section shall be calculated in accordance with the 2014 National Electrical Code.

Section 1704 Unprotected Service Conductors Length – Service entrance conductors (without over current protection) shall not extend more than 15 feet inside a building measuring horizontal from the point of entrance.

Section 1705 Minimum Service Size - No service shall be installed with less than #6 AWG. In new single-family dwellings and in each unit of duplex residential dwellings, the service entrance conductors shall have the equivalent capacity of not less than the following:

1. 100-amperes for residences with an area of 501 square feet through 1,500 square feet; the service conductors shall extend from the service head to the terminals of the first over current devices or the distribution equipment.
2. 200-amperes for residences with an area of 1,501 square feet through 3,000 square feet; the service conductors shall extend from the service head to the line terminals of the first over current devices or the distribution equipment.
3. 225-amperes for residences with 3,001 through 4,000 square feet, the service conductors shall extend from the service head to the line terminals of the first over current device or distribution equipment.
4. 400 amperes for residences with over 4,000 square feet, the service conductors shall extend from the service head to the line terminals of the meter socket.

Section 1706 Service Conductor Splicing - On existing installations, the conductors from the meter to the service drop may be extended splices being made with the appropriate fittings. On new installations, service entrance conductors from the meter to the service drop shall be without splices, except as permitted by Section 1501.4.

Section 1707 Service Equipment & Meters; Location And Requirements.

1707.1 Location - Location of services outlets, meters, and metering equipment shall conform to the requirements of MLGW.

1707.2 Location Of Disconnect - Disconnect means shall always be located on the load side of metering equipment.

1707.3 Additional Taps On Existing Residential Installations - On existing residential installations, in addition to the tap or connection from the load terminals of the meter socket to the line terminals of the main or sub-division switch, and that from the load terminals of the main or subdivision switch to the load, two additional taps to load may be made, one from the load terminal of the meter socket and one from either the line terminals or the load terminals of the main or sub-division switch.

1707.4 Taps for Alternative Energy Metering Equipment - A tap complying with MLGW requirements shall be permitted to be made to conductors or equipment on the line side of metering equipment, within the metering equipment enclosure, for the connection of alternative energy source metering equipment to the premises wiring system

Section 1708 Wiring Methods; Single & Two Family Occupancies

1708.1 General - Nonmetallic-sheathed cable and service-entrance cable shall be permitted to be used in one- and two-family dwellings. Where nonmetallic-sheathed cable is extended through outside walls or floors the cable shall be run through a conduit nipple, properly bushed. Roof sheathing must be completed before cable is installed.

1708.2 Securing Methods For Cable - Service entrance cable and non-metallic sheathed cable, 8 AWG or larger, may be secured directly to permanent structural members on attics and lower edges of joists under houses and unfinished basements. Where distance between ceiling joist and bottom rafters is two feet or less in attics, cable may be run on top of joists or lower edges of roof rafters. Where cable is run parallel to joists, it shall be secured at intervals not exceeding 4-1/2 feet. Where cable is run across joists, it shall be secured on every other joist.

Section 1709 Installation Requirements; Cable Installation

1709.1 General - Assemblies with conductors smaller than No. 8 AWG must be run through bored holes, except that in attics where the distance between the top of the ceiling joist and bottom of rafters is two feet or less, the cable may be secured directly to structural members.

1709.2 Truss Roof Construction Installation - In truss roof construction, cable assemblies with conductors smaller than No. 8 AWG may be secured to the bottom of top chord trusses or may be secured to the top of the bottom chord of trusses and/or may be secured to other structural members, except that protection for cable assemblies shall be required within 6 feet of the nearest edge of scuttle hole or attic entrance. Nominal 2 x 4 truss members shall not be bored for cable assemblies.

1709.3 Branch Circuit Installation - All branch circuit conductors shall be properly joined and terminated prior to rough-in inspection.

Section 1710 - Wiring Methods Service Requirements for Townhouses

1710.1 Definition – A single-family dwelling unit constructed in a group of three or more attached units in which each unit extends from foundation to roof and with a yard or public on not less than two sides.

1710.2 Meter Location – The electric meter for townhouses shall be located on the apartment unit it serves.

Section 1711 Minimum Requirements for Dwellings Using the Shelby County Optional Calculation Method (1703)

1711.1 Applicability - This section amends the requirements of the NEC for dwelling units that have the service and feeder loads calculated in accordance with Section 1703. Where this optional method is used, the dwelling unit shall comply with all of the requirements of this section. This section shall not apply to dwelling units wired in accordance with the 2014 NEC. Wherever floor areas are mentioned herein, it shall be understood that such areas are to be calculated from the outside dimensions of the building and by the number of floors.

1711.1.2.1 Locations Not Included In Area - Carports, open porches, unfinished attics, basements, and rooms not connected to the house shall not be computed in the area requirements.

1711.1.2.2 Omissions Allowed For Lighting Circuits - Living rooms and dens without lighting outlets shall be omitted from floor area calculations for lighting circuit calculations.

1711.1.2.3 Kitchen Exclusion - The area of the kitchens supplied by special kitchen circuits shall be omitted from the floor area calculations for receptacles.

1711.2.1 Branch Circuit Wiring - At least one lighting outlet shall be installed in each room, including bathrooms, toilet rooms, halls, and storage rooms, on porches, and at outside entrances without porches, in attics where stairs are installed or provided, and in basement rooms, attached garages, except in living rooms, bedrooms, and dens where one or more convenience outlets are controlled by wall switch. Porch and outside entrance lights shall be wall switched. Switch shall be adjacent to door where practicable. Attic light shall be installed close to or over attic stairs and controlled by wall switch. Switches for lighting outlets shall be located on the strike side of doors; if this is not possible, it shall be located as near the door as possible, but in no case shall it be behind the door swing.

1711.2.2 Lighting Circuits, Minimum Required - At least one lighting circuit shall be installed for each 750 square feet of floor area or fraction of this area, in residential occupancies. Not more than 12 lighting outlets shall be connected to any lighting circuit. Lighting circuits may be wired with 14-gauge wire and protected by 15-amp overcurrent devices. Receptacles shall not be supplied by lighting circuits.

1711.2.3 Bathrooms - Toilet rooms that have a washbasin and bathrooms shall have one convenience outlet adjacent to each sink. Halls having over 50 square feet of floor space shall have at least one convenience outlet.

1711.2.4 Special Installation Allowed - Where the required number of convenience outlets is installed in a room, and due to special conditions it is impractical to space them 12 feet apart, they may be spaced in the most practical manner as near as possible to the 12 foot requirement.

1711.2.5 Separate Eating Areas - Receptacle outlets in eating areas, which are or are not a part of the kitchen may be installed as part of the kitchen receptacle circuits, or installed on receptacle circuits.

1711.2.6 - Kitchen Circuits -Two or more circuits, each protected at 20 amperes, and with each such circuit supplying not more than three convenience outlets, shall be installed in every kitchen in new buildings or where kitchens are completely remodeled, or where kitchens are added to existing building, or where existing kitchens are enlarged. A vent-a-hood, gas fired appliance or electric clock may be wired as the fourth outlet on a kitchen circuit. These circuits and outlets shall not extend beyond the kitchen (**except as permitted in Section 1715.5**).

1711.2.7 - Electric Clothes Washing Machines - Electric clothes washing machines shall be installed on a separate circuit.

1711.2.8 - Central Vacuum Power Units - Permanently installed central vacuum cleaner power units shall be installed on a separate circuit.

Section 1711.2.9 - Garage, Storage, Basements And Carports – Attached and detached garages, and attached carports, basements, and storage areas of 20 square feet or more in area shall have a minimum of one grounding type convenience outlet and one lighting outlet, which may be combined if supplied by a 20-ampere circuit. Such outlets shall not include those installed for door openers and freezers.

Section 1711.2.10 - Detached Living Quarters – Rooms connected to a house and used, as living quarters shall comply with requirements for installation of convenience outlets. Ceiling outlets may be combined with the convenience outlet on a 20-ampere circuit in rooms not exceeding 250 square feet.

Section 1711.2.11 - Receptacle Circuits – Not more than 16 convenience outlets, single or duplex shall be connected to any circuit and no single circuit shall supply and area of more than 750 square feet. Receptacle circuits shall be wired with 12-guage wire and protected by 20-amp overcurrent devices.

Section 1711.2.12 - Special Convenience Lighting – Special wall convenience outlets for clocks, fans, etc., located 5 feet or more above floor level shall not be considered as complying with the convenience outlet required in each room, but such special wall outlet may be connected to either lighting or convenience outlet circuits.

Section 1711.2.13 - Room Additions– Rooms added to existing residential occupancies, where the addition does not exceed 250 square feet of floor areas, the lighting and convenience outlets, not exceeding 12, may be connected to the same circuit, and not less than 20 ampacity wires can be used. This shall not apply to kitchen additions.

Section 1712 Small Appliance Circuits – For installations not utilizing the optional methods permitted by sections 1703 and 1711, the small appliance circuits required by Section 210.11(C) of the NEC shall have the load evenly proportioned between the circuits by having each adjacent receptacle in the area(s) served supplied by a different circuit.

Section 1720 Branch Circuits Existing Residential Occupancies; General Wiring Requirement – (Minimum Property Standards)

1720.1 Removal Of Unsafe Wiring - In existing dwelling building previously wired with cord wiring, unauthorized extensions, or where other hazardous wiring conditions exist, all hazardous wiring shall be removed, and the new wiring installed to comply with the minimum requirements.

1720.2 Wiring Upgrade For Substandard Dwellings - Existing substandard dwellings shall be wired to meet the minimum requirements as stated below.

1720.3 Retention Of Existing Wiring -Existing portions of dwelling buildings may be wired with 15-ampere capacity circuits for lighting and 20-ampere capacity circuits for receptacles.

1720.4 Required Receptacles, Circuits, Special Location Standards And Lighting Outlets - In determining the minimum number of receptacles or lighting outlet in each room of a building, their location in such rooms, the circuits required to properly accommodate such receptacles and outlets and related requirements, the standards and minimum requirements established in the 2003 Edition of the ICC Property Maintenance Code, or any later edition hereafter adopted by Memphis and Shelby County, shall be used to locate, size, type and establish the minimum number of such items.

Section 1721 Fire Damaged Buildings - An inspection and written ruling must be obtained from the MSCCE prior to commencing work, other than demolition work or temporary service, on fire damaged building.

Section 1722 Building Relocation – Minimum Requirements Buildings moved from one location to another that are to be used as a single-family dwelling shall meet the following minimum requirements:

1. Service entrance conductors shall be governed by new service rules.
2. Kitchens shall have no less than two circuits with a maximum of 3 convenience outlets per circuit.
3. Lights and convenience outlets shall comply with existing branch circuit residential occupancies general requirements.

