2012 APPENDIX B
BUILDING CODE SUMMARY - MODIFIED
(For Use With CTAC Commercial Fire/Water REPAIR Projects in R-2 & R-3 Only)

a. Project Information – (Required information for all projects)

Name of Project: ____________________________
Address: ______________________________________ Zip Code __________________
Proposed Use: ________________________________
Owner/Authorized Agent: ___________________ Phone # (______ ) _______ _______
E-Mail ______________

b. Project Summary/ Alternative Means of Compliance – (Required information for all projects)

Existing Building description: ________________________________

Scope of work details:
______________________________________________________________________________
______________________________________________________________________________
______________________________________________________________________________

If applicable to your project: Alternative Means of Compliance/Engineering Judgment:
http://www.charmeck.org/mecklenburg/county/LUESA/CodeEnforcement/Tools/CodeInterpretations/Pages/default.aspx (Approval needed from the Code Administrator is required before submitting)

______________________________________________________________________________
______________________________________________________________________________


c. Design Professional Information – (Required Information for all Projects)

LEAD DESIGN PROFESSIONAL:

<table>
<thead>
<tr>
<th>DESIGNER</th>
<th>FIRM</th>
<th>NAME</th>
<th>LICENSE #</th>
<th>TELEPHONE #</th>
<th>E-MAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architectural</td>
<td>__________</td>
<td>__________</td>
<td>__________</td>
<td>(____)</td>
<td>_______</td>
</tr>
<tr>
<td>Civil</td>
<td>__________</td>
<td>__________</td>
<td>__________</td>
<td>(____)</td>
<td>_______</td>
</tr>
<tr>
<td>Electrical</td>
<td>__________</td>
<td>__________</td>
<td>__________</td>
<td>(____)</td>
<td>_______</td>
</tr>
<tr>
<td>Fire Alarm</td>
<td>__________</td>
<td>__________</td>
<td>__________</td>
<td>(____)</td>
<td>_______</td>
</tr>
<tr>
<td>Plumbing</td>
<td>__________</td>
<td>__________</td>
<td>__________</td>
<td>(____)</td>
<td>_______</td>
</tr>
<tr>
<td>Mechanical</td>
<td>__________</td>
<td>__________</td>
<td>__________</td>
<td>(____)</td>
<td>_______</td>
</tr>
<tr>
<td>Sprinkler-Standpipe</td>
<td>__________</td>
<td>__________</td>
<td>__________</td>
<td>(____)</td>
<td>_______</td>
</tr>
<tr>
<td>Structural</td>
<td>__________</td>
<td>__________</td>
<td>__________</td>
<td>(____)</td>
<td>_______</td>
</tr>
<tr>
<td>Retaining Walls &gt;5’ High</td>
<td>__________</td>
<td>__________</td>
<td>__________</td>
<td>(____)</td>
<td>_______</td>
</tr>
<tr>
<td>Other</td>
<td>__________</td>
<td>__________</td>
<td>__________</td>
<td>(____)</td>
<td>_______</td>
</tr>
</tbody>
</table>


d. Type of work being performed is limited to REPAIRS

Use of this Modified Appendix B is limited to Repair projects submitted through CTAC under Mecklenburg County’s Fire/Water Restoration Policy. A REPAIR is defined as the restoration to good or sound condition of a component(s) of an existing building. A Repair restores the damaged components to pre-damage conditions without any modification to layout or materials.
f. 2012 REHAB Code (valid until March 2018) or 2015 NC Existing Building Code

☐ 2012 NC REHAB CODE – Repair per section 1.4
Justifications for using the REHAB code:
_____________________________________________________________________________________________
_____________________________________________________________________________________________
_____________________________________________________________________________________________

☐ 2015 NC EXISTING BUILDING CODE (NCEBC) – Repair
Choose compliance method from Chp 3: ☐ Prescriptive ☐ Work Area ☐ Performance

Existing Building Data: (for NC Rehab or NC Existing Building Code)
Last known legal occupancy use _____________ Historic Property: Yes ☐ No ☐
Original Building Construction Date: ____________

Reviewers Notes for Field Inspector: _______________________________________________________________
_____________________________________________________________________________________________

*g. Basic Building Data -- (Required information for all projects)*

<table>
<thead>
<tr>
<th>Construction Type: (Table 601)</th>
<th>I-A</th>
<th>II-A</th>
<th>III-A</th>
<th>IV-HT</th>
<th>V-A</th>
</tr>
</thead>
<tbody>
<tr>
<td>(check all that apply)</td>
<td>I-B</td>
<td>II-B</td>
<td>III-B</td>
<td>V-B</td>
<td></td>
</tr>
<tr>
<td>Sprinklers: (Section 903)</td>
<td>No</td>
<td>Partial</td>
<td>Yes</td>
<td>NFPA 13-07</td>
<td>NFPA 13R-07</td>
</tr>
<tr>
<td>Standpipes: (Section 905)</td>
<td>No</td>
<td>Yes</td>
<td>Class</td>
<td>I</td>
<td>II</td>
</tr>
<tr>
<td>Fire District: <a href="http://charmeck.org/city/charlotte/Fire/Pages/default.aspx">http://charmeck.org/city/charlotte/Fire/Pages/default.aspx</a></td>
<td>No</td>
<td>Yes (Primary) (Appendix D)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flood Hazard Area: (Appendix G)</td>
<td>No</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Building Height: (feet) ________ (Table 503) Stories: __________

Gross Building Area:

<table>
<thead>
<tr>
<th>FLOOR</th>
<th>EXISTING (SQ FT)</th>
<th>NEW (SQ FT)</th>
<th>ALT./RE</th>
<th>SUB-TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>6th Floor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5th Floor</td>
<td></td>
<td></td>
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<tr>
<td>4th Floor</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>3rd Floor</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>2nd Floor</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Mezzanine</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1st Floor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Basement</td>
<td></td>
<td></td>
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<tr>
<td><strong>TOTAL</strong></td>
<td></td>
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</tr>
</tbody>
</table>

h. Occupancy Classification – (Required information for all projects)

Occupancy: Limited to R-2 & R-3 occupancies.

Special Uses: Section 420 – Groups I-1, R-1, R-2, R-3 is always applicable.
Identify other special uses if Applicable: ☐ 403-High Rise Bldg ☐ 419-Live/Work Units
☐ 425-Licenced Residential Care Facility ☐ 426-Licensed Adult & Child Day Care
### j. Fire Protection Requirements (Chapter 7) -- (Required Information for all projects)

<table>
<thead>
<tr>
<th>BUILDING ELEMENT</th>
<th>FIRE SEPARATION DISTANCE (FEET)</th>
<th>RATING **</th>
<th>DETAIL # AND SHEET #</th>
<th>DESIGN # FOR RATED ASSEMBLY</th>
<th>DESIGN # FOR RATED PENETRATION</th>
<th>DESIGN # FOR RATED JOINTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structural Frame, including columns, girders, trusses</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bearing Walls (see section 601 - 602 if rated)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exterior</td>
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<tr>
<td>North</td>
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<tr>
<td>East</td>
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<tr>
<td>West</td>
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<tr>
<td>South</td>
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<td></td>
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<tr>
<td>Interior</td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Nonbearing Walls and Partitions (see section 601 - 602 if rated)</td>
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<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Exterior walls</td>
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<tr>
<td>North</td>
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<td>East</td>
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<td>West</td>
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<tr>
<td>South</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Interior walls and partitions</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Floor Construction Including supporting beams and joists</td>
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</tr>
<tr>
<td>Roof Construction Including supporting beams and joists</td>
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</tr>
<tr>
<td>Shaft Enclosures - Exit</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Shaft Enclosures – Other than Exit</td>
<td></td>
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</tr>
<tr>
<td>Corridor Separation</td>
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</tr>
<tr>
<td>Occupancy Separation</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Party/Fire Wall Separation</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Smoke Barrier Separation</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Tenant Separation</td>
<td></td>
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<tr>
<td>Incidental Use Separation</td>
<td></td>
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</tr>
</tbody>
</table>

* Indicate section number permitting reduction.

** At a minimum the req’d & provided rating info shall be listed; if rated assemblies are being repaired, provide rated design #.

### k. Not Used

### l. Wall Legends – (Required for all Projects)

- Fire Walls 706
- Fire Barriers 707
- Shaft Enclosure 708
- Fire Partitions 709
- Smoke Barriers 710
- Smoke Partitions 711
- No rated walls are present
**v. Energy Summary**

**ENERGY REQUIREMENTS:**
All new work installed as part of a Repair is required to comply w/ the applicable provisions of the current NC Energy Conservation Code. For repairs being made under the Work Area Compliance method of the NC Existing Building Code, see section 610 of that code for further information on insulation & glazing.

House Bill 201 (Aug 2014) allows an alternate path for energy conservation code compliance for alterations and/or additions to certain existing buildings and structures not classified as Group R occupancy and having received a certificate of occupancy prior to January 1, 2012 allowing the use of the provisions of the 2009 NC Energy Conservation Code in lieu of the provisions of the 2012 NC Energy Conservation Code. For more info go to [www.ncdoi.com](http://www.ncdoi.com) – type “HB 201” in search field.

**Climate Zone for Mecklenburg County: 3A** per NCECC Table 301.1

**THERMAL ENVELOPE:** (NCECC [Chapter 4 and or 5](https://www.ncdoi.com)) – Please complete when repair involves work on the thermal envelope.

**Roof/ceiling Assembly** (each assembly)
- Description of assembly: 
- U-Value of total assembly: 
- R-Value of insulation: 
- Skylights in each assembly: 
- U-Value of skylight: 
- Total percentage of skylights in each assembly: 

**Exterior Walls** (each assembly)
- Description of assembly: 
- U-Value of total assembly: 
- R-Value of insulation: 
- Openings (windows or doors with glazing) % of above grade walls
  - U-Value of assembly: 
  - Solar heat gain coefficient: 
  - Projection factor: 
  - Door U-Values: 

**Walls below grade** (each assembly)
- Description of assembly: 
- U-Value of total assembly: 
- R-Value of insulation: 

**Floors over unconditioned space** (each assembly)
- Description of assembly: 
- U-Value of total assembly: 
- R-Value of insulation: 

**Floors slab on grade**
- Description of assembly: 
- U-Value of total assembly: 
- R-Value of insulation: 
- Horizontal/vertical requirement: 
- Slab heated: 

MECHANICAL SUMMARY (NCECC 503) – Please complete when repair involves work on the mechanical system.

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone: 3A
- winter dry bulb: ___________
- summer dry bulb: ___________

Interior design conditions
- winter dry bulb: ___________
- summer dry bulb: ___________
- relative humidity: ___________

Building heating load: ___________
Building cooling load: ___________

Mechanical Spacing Conditioning System

Unitary
- description of unit: ___________
- heating efficiency: ___________
- cooling efficiency: ___________
- size category of unit: ___________

Boiler
- Size category. If oversized, state reason.: ___________

Chiller
- Size category. If oversized, state reason.: ___________

List equipment efficiencies: ___________

ELECTRICAL SUMMARY (NCECC 505) – Please complete when repair involves work on the electrical system.

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance:
- Energy Code: □ Prescriptive □ Performance
- ASHRAE 90.1: □ Prescriptive □ Performance

Lighting schedule (each fixture type)
- lamp type required in fixture
- number of lamps in fixture
- ballast type used in the fixture
- number of ballasts in fixture
- total wattage per fixture
- total interior wattage specified vs. allowed (whole building or space by space)
- total exterior wattage specified vs. allowed

Additional Required Prescriptive Compliance
- □ 506.2.1 More Efficient Mechanical Equipment
- □ 506.2.2 Reduced Lighting Power Density
- □ 506.2.3 Energy Recovery Ventilation Systems
- □ 506.2.4 Higher Efficiency Service Water Heating
- □ 506.2.5 On-Site Supply of Renewable Energy
- □ 506.2.6 Automatic Daylighting Control Systems