Reasoning for Appendices Adoption:

Appendix B Fire-flow Requirements for Buildings. This appendix provides a tool for the use of jurisdictions in establishing a policy for determining fire-flow requirements in accordance with Section 507.3. The determination of required fire flow is not an exact science, but having some level of information provides a consistent way of choosing the appropriate fire flow for buildings throughout a jurisdiction. The primary tool used in this appendix is a table that presents fire flow based on construction type and building area based on the correlation of the Insurance Services Office (ISO) method and the construction types used in the International Building Code.

- The adoption of this Appendix would allow the City of Ivins to ensure adequate fire flow (water supply) to building within the City and to allow a uniform standard of Fire-Flow Calculation that is referenced within the Appendix. The adoption would also allow the City (Fire Chief) the authorization to increase or decrease the fire flow requirements where conditions exist that would require a modification to the standard.

Appendix C Fire Hydrant Locations and Distribution. This appendix focuses on the location and spacing of fire hydrants, which is important to the success of fire-fighting operations. The difficulty with determining the spacing of fire hydrants is that every situation is unique and has unique challenges. Finding one methodology for determining hydrant spacing is difficult. This particular appendix gives one methodology based on the required fire flow that fire departments can work with to set a policy for hydrant distribution around new buildings and facilities in conjunction with Section 507.5.

- The adoption of this Appendix would allow the City to enforce the requirement of fire hydrant placement and locations along fire access routes and to the proximity of buildings. Using the Appendix with the fire flow gallons per minute calculations in the code will give an adequate allow the City of Ivins to back the requirement of number of hydrants and the spacing between them.

Appendix D Fire Apparatus Access Roads. This appendix contains more detailed elements for use with the basic access requirements found in Section 503, which gives some minimum criteria, such as a maximum length of 150 feet and a minimum width of 20 feet, but in many cases does not state specific criteria. This appendix, like Appendices B and C, is a tool for jurisdictions looking for guidance in establishing access requirements and includes criteria for multiple-family residential developments, large one- and two-family subdivisions, specific examples for various types of turnarounds for fire department apparatus and parking regulatory signage.

- Adoption of the Appendix will allow the City of Ivins to enforce the industry standards of length and width of fire access roads, ensuring that the current apparatus that the City owns will be

deployable in the areas and buildings they are protecting. As the City grows and fire apparatus's are added to the fire fleet, enforcing the standards of this Appendix will ensure that these vehicles will operate and access areas without restriction or access problems and would allow all of the apparatus access, instead of possibly limiting which apparatus could be deployed in specific areas.

- This Appendix would also allow the City to back up the requirements of the width of fire access gates allowing access to with our fire apparatus and the access to outside agencies responding. This would also allow the City to enforce a standard for Aerial Fire access roads which is important as our first out apparatus is an aerial.

Appendix E Hazard Categories. This appendix contains guidance for designers, engineers, architects, code officials, plans reviewers and inspectors in the classifying of hazardous materials so that proposed designs can be evaluated intelligently and accurately. The descriptive materials and explanations of hazardous materials and how to report and evaluate them on a Material Safety Data Sheet (MSDS) are intended to be instructional as well as informative.

- This appendix is listed in the 2015 IFC book as, "information purposes and is not intended for adoption." Our Public Safety Department relies on the Emergency Response Guidebook in identifying and classifying all hazardous materials, which is updated every four years and is already a national standard for categorizing hazardous materials, so I don't know if actually adopting this appendix is necessary unless we need to have a legal definition of what the City considers a hazardous category.

Appendix F Hazard Ranking. The information in this appendix is intended to be a companion to the specific requirements of Chapters 51 through 67, which regulate the storage, handling and use of all hazardous materials classified as either physical or health hazards. These materials pose diverse hazards, including instability, reactivity, flammability, oxidizing potential or toxicity; therefore, identifying them by hazard ranking is essential.

- Adoption of this Appendix would allow the City to require and enforce the industry and NFPA 704 standards. This appendix lists the various hazardous materials categories that are defined in this code, along with the NFPA 704 hazard ranking for each. This would require that businesses and residents follow the guidelines for storage and handling of any hazardous materials and their required identifiers would enhance responders safety and provide a jumpstart in a containment scenario.