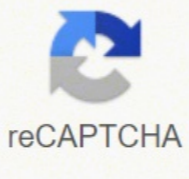


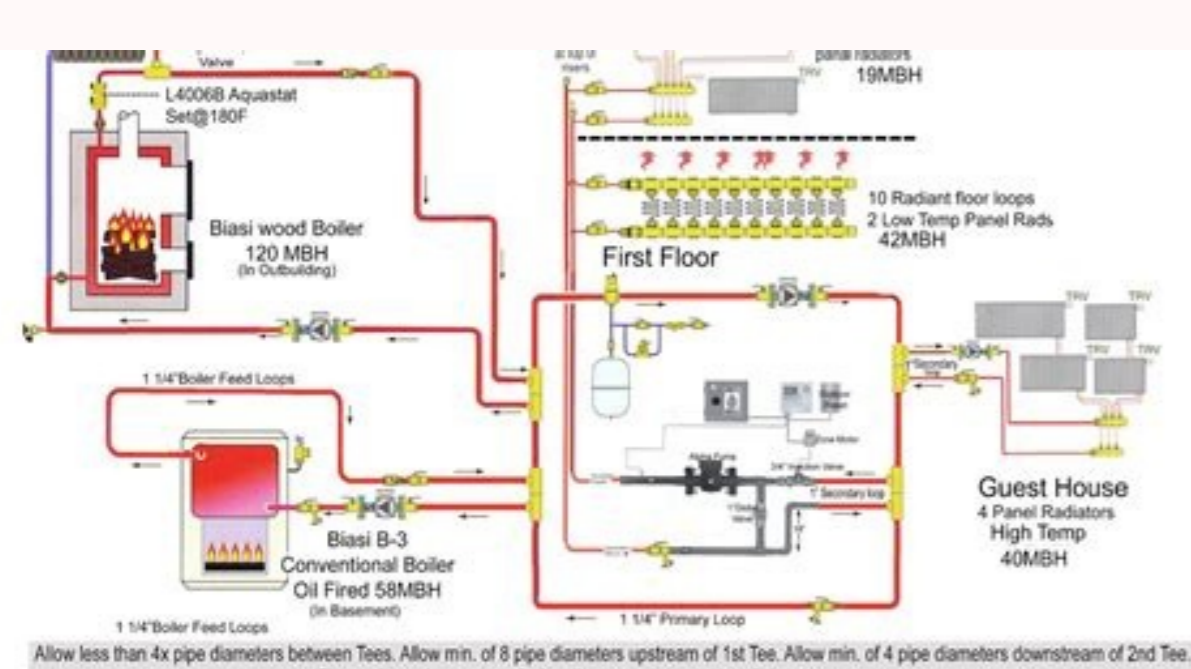


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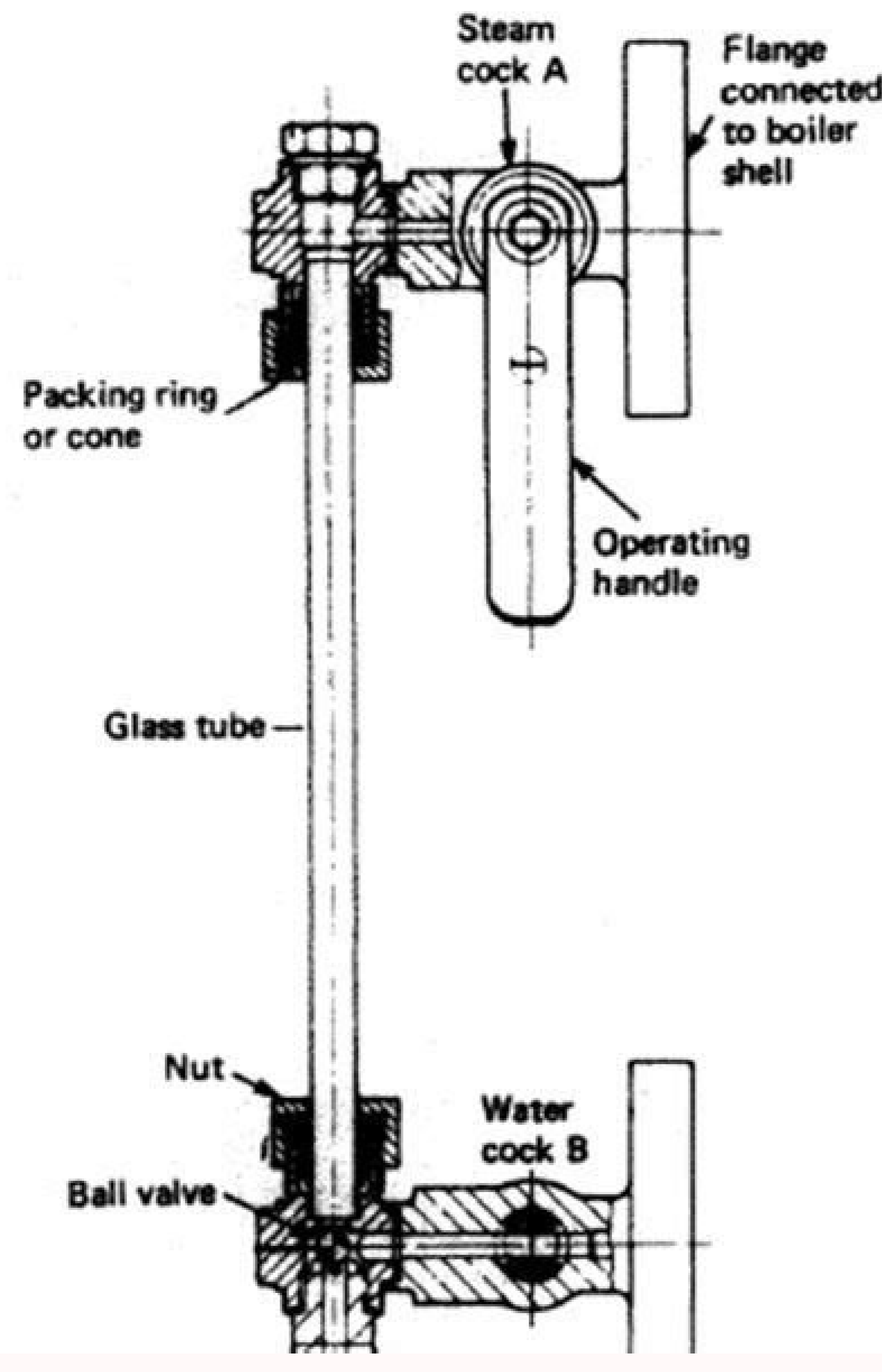
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Allow less than 4x pipe diameters between Tees. Allow min. of 6 pipe diameters upstream of 1st Tee. Allow min. of 4 pipe diameters downstream of 2nd Tee. Place primary loop pump 12 pipe diameters downstream of air purger.

PDF

Size (inches)	Weight (lb)
1/2	0.8
3/4	1.2
1	1.6
1 1/4	2.2
1 1/2	2.8
2	4.0
2 1/2	5.0
3	6.0
4	8.0
6	12.0
8	16.0
10	20.0
12	24.0
14	28.0
16	32.0
18	36.0
20	40.0



Inspection and Test Plan for Water Tube Boiler

Item	Ref	Frequency	By	Remarks
Visual Inspection	1.1	Before Start	Operator	
Pressure Test	1.2	Before Start	Inspector	
Water Level Gauge	1.3	Before Start	Operator	
Flame Detector	1.4	Before Start	Inspector	
Emergency Stop	1.5	Before Start	Operator	
Water Level Gauge	1.6	During Operation	Operator	
Pressure Test	1.7	During Operation	Inspector	
Water Level Gauge	1.8	After Stop	Operator	
Pressure Test	1.9	After Stop	Inspector	

Boiler Water Quality Recommendations at Increasing Temperatures

Boiler Steam Pressure (PSI)	Maximum TDS (ppm)	Maximum Alkalinity (ppm)	Maximum Hardness (ppm)
Low - 300	2500	700	20
300 - 450	2000	600	<5
450 - 600	2500	500	<5
600 - 750	1500	400	<5
750 - 900	1500	300	<5
900 - 1050	1000	200	<5
1050 - 1200	750	150	<5
1200 - 1500	500	100	<5

Boiler water standards. Boiler water standard parameters.

EXCEPTIONS: 1. Horizontal dispersion shall not be required in assembly areas with 300 or fewer seats if the companion seats required by F221.3 and wheelchair spaces are located within the 2nd or 3rd quartile of the total row length. Intermediate aisles shall be included in determining the total row length. If the row length in the 2nd and 3rd quartile of a row is insufficient to accommodate the required number of companion seats and wheelchair spaces, the additional companion seats and wheelchair spaces shall be permitted to be located in the 1st and 4th quartile of the row. F202.2.3 Toilet and Bathing Facilities Where toilet facilities and bathing facilities are not provided in an addition but are provided in the existing building or facility to serve the addition, the toilet facilities and bathing facilities shall comply with F202.2.3. EXCEPTION: In alterations to areas serving additions where it is technically infeasible to comply with 603, altering existing toilet or bathing rooms is not required where a single unisex toilet room or bathing room complying with F213.2.1 is provided to serve the addition. Residential dwelling units required to provide mobility features complying with 809.2 shall be on an accessible route as required by F206. F233.3.2 Residential Dwelling Units with Communication Features Facilities on military installations, other than those containing emergency transportable housing units, shall comply with F233.3.2.1. Facilities on military installations containing emergency transportable housing units shall comply with F233.3.2.2. F233.3.2.1 Facilities Other Than Those Containing Emergency Transportable Housing Units At least 2 percent, but no fewer than one, of the total number of residential dwelling units, other than emergency transportable housing units, in the facility shall provide communication features complying with 809.3. F233.3.2.2 Facilities Containing Emergency Transportable Housing Units Entities shall provide emergency transportable housing units with residential dwelling unit smoke alarms complying with 809.3.1 and, where weather alert systems are provided, with weather alert systems complying with 809.3.4 as determined by a needs assessment conducted by the entity providing the emergency transportable housing units. EXCEPTIONS: 1. In detention and correctional facilities, stairs that are not located in public use areas shall not be required to comply with 504. Accessible elements, spaces, and facilities provided within the trailhead, F223.1.1 Alterations Where sleeping rooms are altered or added, the requirements of F223 shall apply only to the sleeping rooms being altered or added until the number of sleeping rooms complies with the minimum number required for new construction. Advisory F234.1 General. These requirements apply generally to newly designed and constructed amusement rides and attractions. A custom designed and constructed ride is new upon its first use, which is the first time amusement park patrons take the ride. With respect to amusement rides purchased from other entities, new refers to the first permanent installation of the ride, whether it is used off the shelf or modified before it is installed. Where amusement rides are moved after several seasons to another area of the park or to another park, the ride would not be considered newly designed or newly constructed. We'll consider your request and get back to you in 5 working days. F215.5 Residential Dwelling Units. F247.5 Outdoor Constructed Features Where outdoor constructed features are provided on trails, other than within facilities specified in F247.4, at least 20 percent, but not less than one, of each type of outdoor constructed feature at each location shall comply with 1011. In addition, residential dwelling units with communication features complying with 809.3 shall be provided in a number required by the applicable HUD regulations. Residential dwelling units subject to F233.2 shall not be required to comply with F233.3. Advisory F233.2 Residential Dwelling Units Provided by HUD or Through Grant or Loan Programs Administered by HUD. Section F233.2 requires that entities subject to HUD's regulations implementing Section 504 of the Rehabilitation Act of 1973, as amended, provide residential dwelling units containing mobility features and residential dwelling units containing communication features complying with these regulations in a number specified in HUD's Section 504 regulations. Further, the residential dwelling units provided must be dispersed according to HUD's Section 504 criteria. Where only unisex rooms are provided, unisex rooms shall be permitted. F227.4 Food Service Lines Food service lines shall comply with 904.5. Where self-service shelves are provided, at least 50 percent, but no fewer than one, of each type of facility shall comply with 308. Advisory F247.1 General. The Federal Trail Data Standards classify trails by their designed use and managed use. A trail has only one designed use that determines the design, construction, and maintenance parameters for the trail. A trail can have more than one managed use based on a management decision to allow other uses on the trail. F238.2.3 Weather Shelters Where provided, weather shelters shall be designed and constructed so that a golf car can enter and exit the weather shelter and shall comply with 1006.4. F238.3 Practice Putting Greens, Practice Teeing Grounds, and Teeing Stations at Driving Ranges At least 5 percent, but no fewer than one, of practice putting greens, practice teeing grounds, and teeing stations at driving ranges shall be designed and constructed so that a golf car can enter and exit the practice putting greens, practice teeing grounds, and teeing stations at driving ranges. F245.2.5.2 Parking Spaces Where provided, at least one parking space shall comply with 1012.3, 1012.4, and 1012.5. Where more than one parking space is provided, at least two parking spaces shall comply with 1012.3, 1012.4, and 1012.5. F245.3 Outdoor Constructed Features in Common Use and Public Use Areas Where provided in common use and public use areas that serve picnic units with mobility features, at least 20 percent, but not less than one, of each type of outdoor constructed feature provided at each location shall comply with 1011. F221.2.3.2 Vertical Dispersion Wheelchair spaces shall be dispersed vertically at varying distances from the screen, performance area, or playing field. In addition, wheelchair spaces shall be located in each balcony or mezzanine that is located on an accessible route. Advisory F244.5.3 Routes to Adjacent Recreation Facilities. F244.5.3 does not modify the accessible route requirements in F206 that apply to recreation facilities. F217 Telephones F217.1 General Where coin-operated public pay telephones, coinless public pay telephones, public closed-circuit telephones, public courtesy phones, or other types of public telephones are provided, public telephones shall be provided in accordance with F217 for each type of public telephone provided. For purposes of this section, a bank of telephones shall be considered to be two or more adjacent telephones. F237 Fishing Piers and Platforms F237.1 General Fishing piers and platforms shall comply with 1005.9. Grouping all ground level play components accessed by children with disabilities in one location is not considered integrated. F247.3.2 Outdoor Recreation Access Routes At least one outdoor recreation access route complying with 1016 shall connect the following: 1. Residential dwelling units shall not be required to comply with 1016. 2. Camping facilities, picnic facilities, viewing areas, trailheads, trails, and beach access routes shall not be required to comply with F202.4. Advisory F202.4 Alterations Affecting Primary Function Areas. An area of a building or facility containing a major activity for which the building or facility is intended is a primary function area. There can be multiple areas containing a primary function in a single building. Primary function areas are not limited to public use areas. For example, both a bank lobby and the bank's employee areas such as the teller areas and walk-in safe are primary function areas. Also, mixed use facilities may include numerous primary function areas for each use. Areas containing a primary function do not include: mechanical rooms, boiler rooms, supply storage rooms, employee lounges or locker rooms, janitorial closets, entrances, corridors, or restrooms. Advisory F201.1 Scope. The requirements are to be applied to all areas of a facility unless exempted, or where scoping limits the number of multiple elements required to be accessible. For example, not all medical care patient rooms are required to be accessible; those that are not required to be accessible are not required to comply with these requirements. However, common use and public use spaces such as recovery rooms, examination rooms, and cafeterias are not exempt from these requirements and must be accessible. EXCEPTIONS: 1. In a building or facility permitted to use the exceptions to F206.2.3 or permitted by F206.7 to use a platform lift, elevators complying with 408 shall be permitted. F201.4.1 Documentation and Notification When Exceptions Used for Trails and Beach Access Routes Federal agencies shall document the basis for not fully complying with a specific provision in 1017 or 1018 on a portion of a trail or beach access route based on Exception 1 in 1017 or Exception 1 in 1018, and shall maintain the documentation with the records for the trail or beach project. Advisory F208.3.2 Residential Facilities Exception. Factors that could affect "user convenience" include, but are not limited to, protection from the weather, security, lighting, and comparative maintenance of the alternative parking site. F202.6 Leases Buildings or facilities for which new leases are negotiated by the Federal government after the effective date of the revised standards issued pursuant to the Architectural Barriers Act, including new leases for buildings or facilities previously occupied by the Federal government, shall comply with F202.6. EXCEPTIONS: 1. Buildings or facilities leased for use by officials servicing disasters on a temporary, emergency basis shall not be required to comply with F202.6. 2. Buildings or facilities leased for 12 months or less shall not be required to comply with F202.6 provided that the lease may not be extended or renewed. F202.6.5.4 Dining Surfaces and Work Surfaces Dining surfaces and work surfaces shall comply with F226. F202.2 Additions Each addition to an existing building or facility shall comply with the requirements for new construction. EXCEPTION: Where only one bathing facility is provided in the existing building or facility, one bathing facility shall comply with F213.2 and shall serve the addition. F235.2 Boat Slips Boat slips complying with 1003.3.1 shall be provided in accordance with Table F235.2. Where the number of boat slips is not identified, each 40 feet (12 m) of boat slip edge provided along the perimeter of the pier shall be counted as one boat slip for the purpose of this section. F208.3 Location Parking facilities shall comply with F208.3.1. General Parking spaces complying with 502 that serve a particular building or facility shall be located on the shortest accessible route from parking to an entrance complying with F206.4. Where parking serves more than one accessible entrance, parking spaces complying with 502 shall be dispersed and located on the shortest accessible route to the accessible entrances. In parking facilities that do not serve a particular building or facility, parking spaces complying with 502 shall be located on the shortest accessible route to an accessible pedestrian entrance of the parking facility. F206.2.6 Performance Areas Where a circulation path directly connects a performance area to an assembly seating area, an accessible route shall directly connect the assembly seating area with the performance area. An accessible route shall be provided from performance areas to ancillary areas or facilities used by performers unless exempted by F206.2.3 Exceptions 1 through 6. 3. F223.2.2 Facilities Specializing in Treating Conditions That Affect Mobility In facilities specializing in treating conditions that affect mobility, 100 percent of the patient sleeping rooms shall provide mobility features complying with 805. F206.4.2 Parking Structure Entrances Where direct access is provided for pedestrians from a parking structure to a building or facility entrance, each direct access to the building or facility entrance shall comply with 404. F202.2.5 Drinking Fountain Where a drinking fountain is not provided in an addition but is provided in the existing building or facility to serve the addition, at least one drinking fountain in the existing building or facility shall comply with 602.1 through 602.6. F202.3 Alterations Where existing elements or spaces are altered, each altered element or space shall comply with the applicable requirements of Chapter 2. F214.3 Clothes Dryers Where three or fewer clothes dryers are provided, at least one shall comply with 611. Where more than three clothes dryers are provided, at least two shall comply with 611. 11. Advisory F247.3.2 Outdoor Recreation Access Routes. In alterations to existing trailheads, there are exceptions in 1016.1 that can be used where conditions specified in 1019 apply. F209.2 Type Where provided, passenger loading zones shall comply with F209.2.1 Passenger Loading Zones Passenger loading zones, except those required to comply with F209.2.2 and F209.2.3, shall provide at least one passenger loading zone complying with 503 in every continuous 100 linear feet (30 m) of loading zone space, or fraction thereof. F216.7 Elevators Where existing elevators do not comply with 407, elevators complying with 407 shall be clearly identified with the International Symbol of Accessibility complying with 703.7.2.1. F216.8 Toilet Rooms and Bathing Rooms Where existing toilet rooms or bathing rooms do not comply with 603, directional signs indicating the location of the nearest toilet room or bathing room complying with 603 within the facility shall be provided. Signs shall comply with 703.5 and shall include the International Symbol of Accessibility complying with 703.7.2.1. Where existing toilet rooms or bathing rooms do not comply with 603, the toilet rooms or bathing rooms complying with 603 shall be identified by the International Symbol of Accessibility complying with 703.7.2.1. Where clustered single user toilet rooms or bathing facilities are permitted to use excepted to F213.2, toilet rooms or bathing facilities complying with 603 shall be identified by the International Symbol of Accessibility complying with 703.7.2.1 unless all toilet rooms and bathing facilities comply with 603. F206.7 Platform Lifts Platform lifts shall comply with 410. Platform lifts shall be permitted as a component of an accessible route in new construction in accordance with F206.7. Platform lifts shall be permitted as a component of an accessible route in an existing building or facility. F233.1.2.2 Group Sites Where group sites are developed for the installation of emergency transportable housing units, entities shall comply with F233.3.1.2.2. F233.4.1.2.2.1 Unit Pads At least 10 percent, but no fewer than one, of the unit pads prepared for the installation of emergency transportable housing units at each group site shall be designed and constructed to accept the installation of emergency transportable housing units with mobility features complying with 809.2 and shall be on an accessible route as required by F206. F217.4.3 Building Requirement Where at least one public pay telephone is provided in a public use area of a building, at least one public TTY shall be provided in the building in a public use area. Where more than one tent pad and tent platform is provided, at least two tent pads and tent platforms shall comply with 1013.2. Fuel dispensers provided for fueling official government vehicles shall not be required to comply with 309. F222.2 Coat Hooks and Shelves Where coat hooks or shelves are provided in dressing, fitting or locker rooms without individual compartments, at least one of each type shall comply with 803.5. Where coat hooks or shelves are provided in individual compartments at least one of each type complying with 803.5 shall be provided in individual compartments in dressing, fitting, or locker rooms required to comply with F222.1. F223 Medical Care and Long-Term

