Structural 2024 ICC Model Code Changes TAG Review Worksheet

Link to 2024 IBC | Link to 2021 IBC | Link to 2018 IBC | Link to 2020 MN Building Code | Link to MN Rules 1305 Amendments)

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Meeting #4

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118-B18	IBC	18	Table 1810.3.2.6	Table 1810.3.2.6	Table 1810.3.2.6	Allowable Stresses for Materials Used in Deep Foundation Elements		Changes in 2021. See Table.								
119-B18	IBC	18	1810.3.3.1 Ex.	1810.3.3.1 Ex.		Determination of Allowable Axial Loads		Exception added 2021. *Where approved by the building official, load testing is not required.*								
120-B18	IBC	18	1810.3.3.1.9	1810.3.3.1.9	1810.3.3.1.9	Design and Detailing, Helical Piles		Change in 2021. Item 1 revised. *Base capacity plus shaft resistance of the helical pile . The base capacity is equal to the* sum of the areas of the helical bearing plates times the ultimate bearing capacity of the soil or rock comprising the bearing stratum. *The shaft resistance is equal to the area of the shaft above the uppermost helical bearing plate times the ultimate skin resistance.* Also, added to *Item 3 where required by Section 1810.3.3.1.2.*								
121-B18	IBC	18	1810.3.11	1810.3.11	1810.3.11	Design and Detailing, Pile Caps		Added language in 2021. *Pile caps shall conform with ACI 318 and this section.*								
122-B18	IBC	18	1810.4.1.2	1810.4.1.2	1810.4.1.2	Installation, Structural Integrity, Shafts in Unstable Soils		Revised in 2021. Section heading changed. Also - Where cast-in-place deep foundation elements are formed through unstable soils ~~and concrete is placed in an open-drilled hole, a casing shall be inserted in the hole~~ *, the open hole shall be stabilized by a casing, slurry, or other approved method* prior to placing the concrete								

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123-B18	IBC	18	1810.4.1.3	1810.4.1.3	1810.4.1.3	Installation, Structural Integrity, Driving Near Uncased Concrete		Revised in 2021. Deep foundation elements shall not be driven within six element diameters center to center in granular soils or within one-half the element length in cohesive soils of an uncased element filled with concrete less than 48 hours old unless approved by the building official . If *driving near uncased concrete elements causes* the concrete surface in any completed element ~~rises or drops~~ *to rise or drop significantly or bleed additional water* , the *completed* element shall be replaced. ~~Driven uncased deep foundation elements shall not be installed in soils that could cause heave.~~								
124-B18	IBC	18	1810.4.5	1810.4.5	1810.4.5	Installation, Vibratory Driving		Two exceptions added 2021.								
IEBC/MR 1311 Conservation Code for Existing Buildings - Structural Items																
125-EB4	IEBC	4	405.1	405	405	Repairs - Structural - General		Revision in 2024. 405.1 General. Structural ***damage*** ~~repairs~~ shall be ***repaired*** in compliance with this section and Section 401.2			1311 TAG consensus to accept if acceptable to Structural TAG. CCP likely forthcoming from interested party.					
126-EB4	IEBC	4	405.1.1			Repairs - Structural - General - Structural Concrete		New in 2024. 4***05.1.1 Structural concrete. Repair of structural concrete shall be permitted to comply with ACI 562 Section 1.7, except where Section 405.2.2, 405.2.3 or 405.2.4.1 requires compliance with Section 304.3.***			1311 TAG consensus to accept if acceptable to Structural TAG. CCP likely forthcoming from interested party.					

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127-EB4	IEBC	4	405.2.3.1	405.2.3.1	405.2.3.1	Repairs - Structural - Repairs to Damaged Buildings - Substantial Structural Damage to Vertical Elements of the Lateral Force-Resisting System - Evaluation		Revised 2024. 405.2.3.1 Evaluation. The building shall be evaluated by a registered design professional, and the evaluation findings shall be submitted to the code official. The evaluation shall establish whether the ***lateral force-resisting system of the*** damaged building, ***including its foundation*** , if repaired to its predamage state, would comply with the provisions of the International Building Code for load combinations that include wind ~~or earthquake~~ effects, ~~except that the seismic forces shall be the reduced seismic forces~~ and with Section 304.3.2 of this code.			1311 TAG consensus to accept if acceptable to Structural TAG. CCP likely forthcoming from interested party.					
128-EB4	IEBC	4	405.2.3.3	405.2.3.3	405.2.3.3	Repairs - Structural - Repairs to Damaged Buildings - Substantial Structural Damage to Vertical Elements of the Lateral Force-Resisting System - Extent of Repair for Noncompliant Buildings		Revised 2024. 405.2.3.3 Extent of repair for noncompliant buildings. If the evaluation does not establish that the ***lateral force-resisting system of the*** building in its predamage condition complies with the provisions of Section 405.2.3.1, then the ~~building~~ ***lateral force-resisting system, and its foundation,*** shall be retrofitted to comply with the provisions of this section. The wind loads for the repair and retrofit shall be those required by the building code in effect at the time of original construction, unless the damage was caused by wind, in which case the wind loads shall be in accordance with the International Building Code. The seismic retrofit shall comply with Section 304.3.2 of this code, but the earthquake loads for this retrofit design shall not be less than those required by the building code In effect at the time of original construction~~, but not less than the reduced seismic forces.~~			1311 TAG consensus to accept if acceptable to Structural TAG. CCP likely forthcoming from interested party.					

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129-EB4	IEBC	4			1311.0405.2.4	Repairs - Structural - Substantial Structural Damage to Gravity Load-Carrying Components	Y	For REPAIRS. Amendment requires demonstration that components have capacity to carry design loads of rehabed components. Current amendment and also new language in model code.			1311 TAG consensus to carry forward amendment if acceptable to Structural TAG. CCP likely forthcoming from interested party.					
130-EB4	IEBC	4	405.2.4	405.2.4	Amended			Revised 2024. 405.2.4 Substantial structural damage to gravity load-carrying components. Gravity load-carrying components that have sustained substantial structural damage shall be ***retrofitted*** ~~rehabilitated~~ to comply with ***the applicable provisions for dead, live and snow loads in the International Building Code. Undamaged gravity*** load-carrying components, ***including undamaged foundation components*** , that receive dead, live or snow loads from ***retrofitted*** ~~rehabilitated~~ components shall also be ***retrofitted*** ~~rehabilitated~~ if required to comply with ***these*** ~~the~~ design loads ~~of the rehabilitation design~~.								

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131-EB5	IEBC	5	502.1	502.1		Prescriptive - Additions - General		Revised in 2024. 502.1 General. Additions to any building or structure shall comply with the requirements of the IBC for new construction. Alterations to the existing building or structure shall be made to ensure that the existing building or structure together with the addition are not less complying with the provisions of the International Building Code than the existing building or structure was prior to the addition ***except that the structural elements need only comply with Sections 502.2 through 502.3*** . An existing building together with its additions shall comply with the height and area provisions of Chapter 5 of the IBC . ***Where a new occupiable roof is added to a building or structure, the occupiable roof shall comply with the provisions of the IBC.*** ***Exception: In-filling of floor openings and nonoccupiable appendages such as elevator and exit stairway shafts shall be permitted beyond that permitted by the IBC.***			1311 TAG consensus to accept if acceptable to Structural TAG.					

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132-EB5	IEBC	5	502.1.1			Prescriptive - Additions - Risk Category Assignment		New in 2024. ***502.1.1 Risk category assignment. Where the addition and the existing building have different occupancies, the risk category of each existing and added occupancy shall be determined in accordance with Section 1604.5.1 of the International Building Code. Where application of that section results in a higher risk category for the existing building compared with the risk category for the existing building before the addition , such a change shall be considered a change of occupancy and shall comply with Section 506 of this code. Where application of that section results in a higher risk category for the addition compared with the risk category for the addition by itself, the addition and any systems in the existing building required to serve the addition shall comply with the requirements of the International Building Code for new construction for the higher risk category .***			1311 TAG consensus to accept if acceptable to Structural TAG.					
133-EB5	IEBC	5	502.1.2			Prescriptive - Additions - Creation or Extension of Nonconformity		New in 2024. ***502.1.2 Creation or extension of nonconformity. An addition shall not create or extend any nonconformity in the existing building to which the addition is being made with regard to accessibility, structural strength, supports and attachments for nonstructural components, fire safety, means of egress or the capacity of mechanical, plumbing or electrical systems.*** ***Exception: Nonconforming supports and attachments for nonstructural components that serve the addition from within the existing building need not be altered to comply with International Building Code Section 1613 unless the components are part of the addition's life-safety system or are required to serve an addition assigned to Risk Category IV.***			1311 TAG consensus to accept if acceptable to Structural TAG. Request input on cost.					

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134-EB5	IEBC	5			MR 1311.502.4	Prescriptive - Additions - Existing Structural Elements Carrying Gravity Loads	y	Increase of demand-capacity ratio (cumulative) to >105% requires replacement or alteration. (additional provisions - see full text).			1311 TAG consensus to carry forward amendment if acceptable to Structural TAG.					
135-EB5	IEBC	5	502.3	502.4	Amended	Prescriptive - Additions - Existing Structural Elements Carrying Gravity Loads		Renumbered 2024.								
136-EB5	IEBC	5			MR 1311.0502.5	Prescriptive - Additions - Existing Structural Elements Carrying Lateral Loads	Y	Exception #1 added. Increase demand-capacity ratio (cumulative) to >110% requires replacement or alteration. (additional provisions - see full text).			1311 TAG consensus to carry forward amendment if acceptable to Structural TAG.					

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137-EB5	IEBC	5	502.4	502.5	Amended 1311.0502.5	Prescriptive - Additions - Existing Structural Elements Carrying Lateral Loads		Renumbered and revised in 2024. . Main change is in Ex. 1: 1. Any existing lateral load-carrying structural element whose demand-capacity ratio with the addition considered is not more than 10% greater than its demand-capacity ratio with the addition ignored shall be permitted to remain unaltered. For purposes of calculating demand-capacity ratios, the demand shall consider applicable load combinations with design lateral loads or forces in accordance with ***Section 1609*** ~~Sections 1609 and 1613~~ of the IBC. For purposes of this exception, comparisons of demand-capacity ratios and calculation of design lateral loads, forces and capacities shall account for the cumulative effects of additions and alterations since original construction. W***hen calculating demand-capacity ratios for wind, the date of original construction shall be permitted to be taken as the date of completion of a prior addition, alteration or repair in compliance with Section 1609 of the IBC or the code wind forces in effect at the time....(seismic)***								
138-EB5	IEBC	5	503.1	503.1	503.1	Prescriptive - Alterationss - General		Revised in 2021 and 2024. ***Alterations to any building or structure shall*** comply with the requirements of the IBC for new construction. Alterations shall be such that the existing building or structure is not less complying with the provisions of the IBC than the existing building or structure was prior to the alteration, ***except that the structural elements need only comply with Sections 503.2 through 503.12.*** Exceptions not structural-related.								
139-EB5	IEBC	5	503.3		1311.0503.3	Prescriptive - Alterations - Existing Structural Elements Carrying Gravity Load	Y	Increase of demand-capacity ratio (cumulative) to >105% requires replacement or alteration. (additional provisions - see full text).			1311 TAG consensus to carry forward amendment if acceptable to Structural TAG.					

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140-EB5	IEBC	5			1311.0503.4	Prescriptive - Alterations - Existing Structural Elements Carrying Lateral Load	Y	Increase in demand-capacity ratio (cumulative) to </= 110% may remain unaltered, considered per IBC 1609.								
141-EB5	IEBC	5	503.4	503.4		Prescriptive - Alterations - Existing Structural Elements Carrying Lateral Load		2021 Ex 2 added: ***2. Buildings in which the increase in the demand-capacity ratio is due entirely to the addition of rooftop-supported mechanical equipment individually having an operating weight less than 400 pounds (181.4 kg) and where the total additional weight of all rooftop equipment placed after initial construction of the building is less than 10 percent of the roof dead load.*** 2024 changes: charging paragraph - ~~structure~~ ***lateral force-resisting system;*** drops compliance with 1613; adds compliace with IEBC 304.2. Ex. 1 revised similary, adds wind and earthquake guidance. Ex. 3 added (seismic). MN amendment rewords Exception 1.								
142-EB5	IEBC	5	503.6, 503.7, 503.8, 503.9, 503.10, 503.11, 503.12,	503.6, 503.7, 503.8, 503.9, 503.10, 503.11, 503.12,	503.6, 503.7, 503.8, 503.9, 503.10, 503.11, 503.12	Prescriptive - Alterations - Bracing and Anchorage for Parapets, Bracing and Anchorage for Masonry Walls, Substantial Structural Alteration, Roof Diaphragms Resisting Wind Loads,		Several 2024 changes in these sections, some referencing IEBC Ch 304.2. 503.12 Roof Diaphragm revised 2021 and 2024, changed to basic wind speed 130.								

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143-EB5	IEBC	5	503.13	503.13	503.13	Prescriptive - Alterations - Voluntary Lateral-Force Resisting Systems		Structural alterations that are intended exclusively to improve the lateral force-resisting system and are not required by other sections of this code shall ***not be subject to the structural requirements of Section 503*** ~~required to meet the requirements of Section 1609 or 1613 of the IBC~~, provided that all of the following apply: 1. ***With the alteration complete*** , the ~~The~~ capacity of existing structural systems to resist forces is not reduced. 2. New structural elements are detailed and connected to existing or new structural elements as required by the ***selected design criteria.*** ~~IBC for new construction.~~ ***Exception: New lateral force-resisting systems designed in accordance with the IBC are permitted to be of a type designated as "Ordinary" or "Intermediate" where ASCE 7 Table 12.2-1 states these types of systems are not permitted.*** 3. ***Supports and attachments for*** ~~New or relocated~~ nonstructural elements ***removed and reinstalled to facilitate the work comply with*** ~~are detailed and connected to existing or new structural elements as required by~~ the IBC for new construction. 4. The alterations do not create a structural irregularity as defined in ASCE 7 or make an existing structural irregularity more severe. ***Exception: Condition 4 need not be satisfied where the work complies with Section 304.3.2, Item 3.***								
144-EB5	IEBC	5			1311.0506.4.1	Prescriptive - Structual - Live Loads		Increase of demand-capacity ratio (cumulative) to >105% requires replacement or alteration. (additional provisions - see full text).								
144-EB5	IEBC	5	506.5.3; 506.5.4	506.5.3; 506.5.4	506.4.3; 506.4.4	Prescriptive - Change of Occupancy - Seismic and Access to Risk Cat IV		506.5.3 renumbered and seismic changes in 2021 and 2024. In 2024, structures providing access to RC IV comply with 1608, 1609, and IEBC 304.3.1.								

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145-EB7	IEBC	7	705.1	705.1	705.1	Level 1 Alterations - Reroofing - General		For Ex. 1 and 2, adds requirement to comply with IBC Snow and Rain Loads								
146-EB7	IEBC	7	1501.3	1501.2.1	705.2	Level 1 Alterations - Reroofing - Structural and Construction Loads		In 2021, moved to Chaper 15, then renumbered. (MN amends to delete IEBC Ch 15 and redirect to IBC Ch 33, but this provision is not in IBC Ch 33).			Do we need an amendment to Ch 33 to cover reroofing construction loads?					
147-EB7	IEBC	7	705.2	705.2	705.3	Level 1 Alterations - Reroofing - Roof Replacement		Changes in 2024. Roof replacement shall include the removal of all existing layers of roof coverings down to the roof deck. ~~Exception~~ 1. Where the existing roof assembly includes an ice barrier membrane that is adhered to the roof deck ***and the existing sheathing is not water-soaked or deteriorated to the point that it is not adequate as a base for additional roofing*** , the existing ice barrier membrane shall be permitted to remain in place and covered with an additional layer of ice barrier membrane in accordance with Section 1507 of the IBC ***where permitted by the roof-covering manufacturer and new ice-barrier underlayment manufacturer.*** ***2. Where the existing roof includes a self-adhered underlayment and the existing sheathing is not water-soaked or deteriorated to the point that it is not adequate as a base for additional roofing, the existing self-adhered underlayment shall be permitted to remain in place and covered with an underlayment complying with Tables 1507.1.1(1), 1507.1.1(2) and 1507.1.1(3) of the IBC. (cont. next page)***								

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147-EB7 (cont)								***3. Where the existing roof includes one layer of self-adhered underlayment and the existing layer cannot be removed without damaging the roof deck, a second layer of self-adhered underlayment is permitted to be installed over the existing self-adhered underlayment provided all of the following conditions are met:*** ***3.1 It is permitted by the roof-covering manufacturer and self-adhered underlayment manufacturer.*** ***3.2 The existing sheathing is not water-soaked or deteriorated to the point that it is not adequate as a base for additional roofing.*** ***3.3 The second layer of self-adhered underlayment is installed such that buildup of material at walls, valleys, roof edges, end laps and side laps does not exceed two layers.***							
148-EB7	IEBC	7			1311.0706.2	Alterations L 1 - Structural - Addition or replacement of Roofing or Replacement of Equipment		Increase of demand-capacity ratio (cumulative) to >105% requires replacement or alteration. (additional provisions - see full text).								
149-EB7	IEBC	7	706.3.1	706.3.1	706.3.1	Alterations L 1 - Additional Requirements for Reroof Permits - Bracing for unreinforced Masonry Bearing Wall Parapets.Bracing for Unreinforced Masonry Bearing Wall Parapets		Change in 2024. Only for seismic.								

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150-EB7	IEBC	7	706.3.2	706.3.2	706.3.2	Alterations L 1 - Additional Requirements for Reroof Permits - Roof Diaphragms Resisting Wind Loads in High-Wind Regions		Change in 2021 and again in 2024. Roof Diaphragm revised 2021 and 2024, changed to basic wind speed 130.								
151-EB8	IEBC	8			1311.0806.2	Alterations L 2 - Structural, Existing Structural Elements Carrying Gravity Loads	Y	Increase of demand-capacity ratio (cumulative) to >105% requires replacement or alteration. (additional provisions - see full text).								
152-EB8	IEBC	8			1311.0806.3	Alterations L 2 - Structural, Existing Structural Elements Resisting Lateral Loads	Y	Increase in demand-capacity ratio (cumulative) to </= 110% may remain unaltered, considered per IBC 1609.								
153-EB8	IEBC	8	805.3	805.3	806.3	Alterations L 2 - Structural, Existing Structural Elements Resisting Lateral Loads		Revised 2024. Similar to 502.5. Ex. 2 added, similar to 503.4. Ex. 3 added - seismic.								
154-EB8	IEBC	8	805.4		806.4	Alterations L 2 - Structural, Voluntary Lateral Force-Resisting System Alterations		Revised 2024. Similar to 503.13.								
155-EB9	IEBC	9	Section 906	Section 906	Section 906	Alterations L 3 - Structural		Changes in 2024, structural, seismic except as noted.								
156-EB9	IEBC	9	906.2	906.2	906.2	Alterations L 3 - Structural - Existing Structural Elements Resisting Lateral Loads		Changes in 2024. Substantial structural alterations, lat. load resisting system comply with IBC 1609 and IEBC 304.3.2. Ex. 2 revised: 2. Where the intended alteration involves only the lowest story of a building, ~~only the~~ ***structural components of the*** lateral load resisting ***system above*** ~~components in and below~~ that story need ***not*** comply with this section.			Note the structural MN amendments appearing in other chapters do not appear in Ch 9 of the printed book.					

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157-EB10	IEBC	10			1311.1006.1	Change of Occupancy - Structural, Live Loads	Y	Increase of demand-capacity ratio (cumulative) to >105% requires replacement or alteration. (additional provisions - see full text).								
158-EB11	IEBC	11	1101.2;	1101.2	1101.2	Additions - General - Creation or Extension of Nonconformity		Revised and added exception in 2024. An addition shall not create or extend any nonconformity in the existing building to which the addition is being made with regard to accessibility, structural strength, ***supports and attachments for nonstructural components*** , fire safety, means of egress or the capacity of mechanical, plumbing or electrical systems. ***Exception: Nonconforming supports and attachments for nonstructural components that serve the addition from within the existing building need not be altered to comply with IBC Section 1613 unless the components are part of the addition 's life safety system or are required to serve an addition assigned to Risk Category IV.***								
159-EB11	IEBC	11	1102.3			Additions - General - Risk Category Assignment		New in 2024. ***Risk category assignment. Where the addition and the existing building have different occupancies, the risk category of each existing and added occupancy shall be determined in accordance with Section 1604.5.1 of the IBC. Where application of that section results in a higher risk category for the existing building compared wih the risk category for the existing building before the addition , such a change shall be considered a change of occupancy and shall comply with Chapter 10 of this code. Where application of that section results in a higher risk category for the addition compared with the risk category for the addition by itself, the addition and any systems in the existing building required to serve the addition shall comply with the requirements of the IBC for new construction for the higher risk category .***								

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160-EB11	IEBC	11			1311.1103.1	Additions - Structural - Additional Gravity Loads	Y	Increase of demand-capacity ratio (cumulative) to >105% requires replacement or alteration. (additional provisions - see full text).								
161-EB11	IEBC	11			1311.1103.2	Additions - Structural - Lateral Force-Resisting Systems	Y	Increase in demand-capacity ratio (cumulative) to </= 110% may remain unaltered, considered per IBC 1609.								
162-EB11	IEBC	11	1103.2	1103.2	1103.2	Additions, Lateral force-resisting systems		Changes in 2024. Where the addition is structurally independent of the existing structure , existing lateral load-carrying structural elements shall be permitted to remain unaltered. Where the addition is not structurally independent of the existing structure, the ***lateral force-resisting system of the*** existing structure and its addition acting together as a single structure shall ***comply with*** ~~meet the requirements of Sections 1609~~ ***Section 1609*** ~~and 1613~~ of the IBC a***nd Section 304.3.1 of this code*** ~~using full seismic forces.~~ Exceptions: 1. Buildings of Group R with not more than five dwelling or sleeping units used solely for residential purposes where the existing building and the addition comply with the conventional light-frame construction methods of the IBC or the provisions of the IRC. 2. Any existing lateral load-carrying structural element whose demand-capacity ratio with the addition considered is not more than 10 percent greater than its demand-capacity ratio with the addition ignored shall be permitted to remain unaltered. For purposes of calculating demand-capacity ratios, the demand shall consider applicable load combinations with design lateral loads or forces in accordance with ***Section 1609*** ~~Sections 1609 and 1613~~ of the IBC and Section 304.3.1 of this code. (cont. next page)								

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162-EB11 (cont.)								For purposes of this exception, comparisons of demand-capacity ratios and calculation of design lateral loads, forces and capacities shall account for the cumulative effects of additions and alterations since original construction. ***When calculating demand-capacity ratios for wind, the date of original construction shall be permitted to be taken as the date of completion of a prior addition , alteration or repair in compliance with Section 1609 of the International Building Code or the code wind forces in effect at the time. When calculating demand-capacity ratios for earthquake, the date of original construction shall be permitted to be taken as the date of completion of a prior addition , alteration or repair in compliance with Section 304.3.1 or the full seismic forces in effect at the time.***								
163-EB12	IEBC	12	1205.1	1205.1	1205.1	Historic Buildings - Structural - General		Historic buildings shall comply with the applicable structural provisions for the work as classified in Chapter 4 or 6 ~~5.~~ Exceptions: 1. The code official shall be authorized to accept existing ***floor*** ~~floors~~ and ~~existing~~ ***previously approved*** live loads ***and roof live loads*** and to approve operational controls that limit the live load ***or roof live load*** ~~on any floo~~r. 2. ***Regardless of the level of damage, structural repairs shall be permitted to return the building to its predamage condition without additional work*** .~~Repair of substantial structural damage is not required to comply with Sections 405.2.3 and 405.2.4. Substantial structural damage shall be repaired in accordance with Section 405.2.1.~~								

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164-EB14	IEBC	14			1311.1402.3	Relocated or Moved Buildings - Wind Loads	Y	Revises exception #2. Structural elements whose demand-capacity ratio is not increased to more than 110 % (cumulative) need not comply with IBC. Model code language for exception #2: Structural elements whose stress is not increased by more than 10% need not comply with IBC or IRC.								
165-EB14	IEBC	14			1311.1402.5	Relocated or Moved Buildings - Snow Loads	Y	Revises the exception. Structural elements whose demand-capacity ration is not increased to more than 105% (cumulative) need not comply with IBC where snow loads higher in new location. Model code exception: Structural elements whose stress in not increased by more than 5% need not comply with IBC or IRC.								
166-EB16	IEBC	16	Chapter 16 ACI			Referenced Standards		In 2024 added ACI 562-21 Assessment, Repair, and Rehab of Existing Concrete Structures - Code Requirements								
167-EB16	IEBC	16	Chapter 16 ASCE/SEI			Referenced Standards		In 2024 changes reference for ASCE/SEI Minimum Design Loads and Associated Criteria for Buildings and Other Structures from 7-2016 to 7-2022.								
168-EB16	IEBC	16	Chapter 16 ASTM			Referenced Standards		In 2024, changes reference for Specifications for Ready-Mix Concrete C94/C94M from 15A to 21b								
IBC/MR 1305 Chapter 19 - Concrete																
169-B19	IBC	19	1901.2	1901.2	1901.2	Plain and Reinforced Concrete		Changes in 2021 and 2024								
170-B19	IBC	19	1901.2.1			Structural Concrete with GFRP Reinforcement		New subsection in 2024: ***Cast-in-place structural concrete internally reinforced with glass fiber reinforced polymer (GFRP) reinforcement conforming to ASTM D7957 and designed in accordance with ACI CODE 440.11 shall be permitted where fire-resistance ratings are not required and only for structures assigned to Seismic Design Category A.***								
171-B19	IBC	19	1901.3	1901.3	1901.3	Anchoring to Concrete		Adds "screw" in 2021. "Amended" (anchoring) changed to "supplemented" in 2024.								

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172-B19	IBC	19	1901.7	1901.7		Tolerances for Structural Concrete		New in 2021. ***1901.7 Tolerances for structural concrete. Where not indicated in construction documents, structural tolerances for concrete structural elements shall be in accordance with this section. 1901.7.1 Cast-in-place concrete tolerances.Structural tolerances for cast-in-place concrete structural elements shall be in accordance with ACI 117. Exceptions: 1. Group R-3 detached one- or two-family dwellings are not required to comply with this section. 2. Shotcrete is not required to comply with this section. 1901.7.2 Precast concrete tolerances. Structural tolerances for precast concrete structural elements shall be in accordance with ACI ITG-7. Exception: Group R-3 detached one- or two-family dwellings are not required to comply with this section.***								
173-B19	IBC	19	Section 1902	Section 1902		Coordination of Terminology		New section in 2021. Revised in 2024. ***1902.1 General. Coordination of terminology used in ACI 318 and ASCE 7 shall be in accordance with Section 1902.1.1 Sections 1902.1.1 and 1902.1.2. 1902.1.1 Design displacement. Design displacement shall be the Design Earthquake Displacement, δ DE , defined in ASCE 7 Section 12.8.6.3. For diaphragms that can be idealized as rigid in accordance with ASCE 7 Section 12.3.1.2, δ di , displacement due to diaphragm deformation corresponding to the design earthquake, is permitted to be taken as zero.***								
174-B19	IBC	19	1903.1	1903.1	1903.1	Specification for Tests and Materials - General		Exception deleted in 2021.								
175-B19	IBC	19		1903.2	1903.2	Special Inspections		Deleted in 2024.								
176-B19	IBC	19	1903.2	1903.3	1903.3	Spec for Tests and Materials - Glass Fiber-Reinforced Concrete		Renumbered in 2024. P~~CI MNL 128~~ ***PCI 128*** ~~. standard.~~								

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177-B19	IBC	19			1311.1904.3	Corrosion Protection	Y	Amendment adds subsection. *1904.3 Corrosion protection. Where bonded reinforcing and prestressing steel is located in concrete assigned to Exposure Class F3 or Exposure Class C2, the steel shall be protected from corrosion by one of the following methods:* *1. Impermeable barrier.* *2. Epoxy coating in accordance with ACI 318.* *3. Hot dipped galvanizing in accordance with ACI 318.*								
178-B19	IBC	19	Section 1905	Section 1905	Section 1905	~~Modifications to ACI 318~~ Seismic Requirements		All seismic.								
179-B19	IBC	19	Section 1906	Section 1906	Section 1906	~~Structural Plain Concrete~~ Footings for Light-Fram Construction		New language 2021. ***1906.1 Plain concrete footings. For Group R-3 occupancies and buildings of other occupancies less than two stories above grade plane of light-frame construction, the required thickness of plain concrete footings is permitted to be 6 inches, provided that the footing does not extend more than 4 inches on either side of the supported wall.***								

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180-B19	IBC	19	Section 1907	Section 1907	Section 1907	~~Minimum Slab Provisions~~ Slabs-on-Ground		*New language in 2024. 1907.1 Structural slabs-on-ground. Structural concrete slabs-on-ground shall comply with all applicable provisions of this chapter. Slabs-on-ground shall be considered structural concrete where required by ACI 318 or where designed to transmit either of the following:* *1. Vertical loads or lateral forces from other parts of the structure to the soil.* *2. Vertical loads or lateral forces from other parts of the structure to foundations.* *1907.2 Nonstructural slabs-on-ground. Nonstructural slabs-on-ground shall be required to comply with Sections 1904.2, 1907.3 and 1907.4. Portions of the nonstructural slabs-on-ground used to resist uplift forces or overturning shall be designed in accordance with accepted engineering practice throughout the entire portion designated as dead load to resist uplift forces or overturning.* *1907.3 Thickness. The thickness of concrete floor slabs supported directly on the ground shall be not less than 3 1/2 inches. (cont. next page)*								

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180-B19 (cont.)								***1907.4 Vapor retarder. The thickness of concrete floor slabs supported directly on the ground shall be not less than 31/2 inches. A 6-mil polyethylene vapor retarder with joints lapped not less than 6 inches (152 mm) shall be placed between the base course or subgrade and the concrete floor slab, or other approved equivalent methods or materials shall be used to retard vapor transmission through the floor slab.*** ***Exception: A vapor retarder is not required:*** ***1. For detached structures accessory to occupancies in Group R-3, such as garages,*** ***utility buildings or other unheated facilities .*** ***2. For unheated storage rooms having an area of less than 70 square feet (6.5 m2) and*** ***carports attached to occupancies in Group R-3.*** ***3. For buildings of other occupancies where migration of moisture through the slab from*** ***below will not be detrimental to the intended occupancy of the building .*** ***4. For driveways, walks, patios and other flatwork that will not be enclosed at a later date.*** ***5. Where approved based on local site conditions.***								
181-B19	IBC	19	Section 1908	Section 1908	Section 1908	Shotcrete		Entire section deleted in 2021 except: Shotcrete ***shall be in accordance with the requirements of ACI 319.***								
IBC/MR 1305 Chapter 21 - Masonry																

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182-B21	IBC	21	2102.1	2102.1	2102.1	Notations		Change in 2024. ***fs = Computed stress in reinforcement due to design loads, psi (MPa).*** ~~f 'AAC = Specified compressive strength of AAC masonry, the minimum compressive strength for a class of AAC masonry as specified in TMS 602, psi (MPa).~~ ~~f 'm = Specified compressive strength of masonry at age of 28 days, psi (MPa).~~ ~~f 'mi = Specified compressive strength of masonry at the time of prestress transfer, psi (MPa).~~ ~~K = The lesser of the masonry cover, clear spacing between adjacent reinforcement, or five times db, inches (mm).~~								
183-B21	IBC	21	2103.2.4	2103.2.4	2103.2.4	Mortar for Adhered Masonry Veneer		Changed in 2024. ***Mortar for use with adhered masonry veneer shall conform to Section 13.3 of TMS 402.*** ~~ASTM C270 for Type N or S, or shall comply with ANSI A118.4 for latex-modified Portland cement mortar .~~								
184-B21	IBC	21	Section 2109	Section 2109	Section 2109	Empirical Design of Adobe Masonry		Revisions 2021 and deleted Equation 21-2 in 2024.								