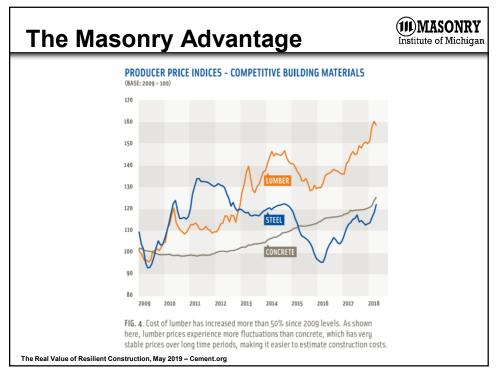
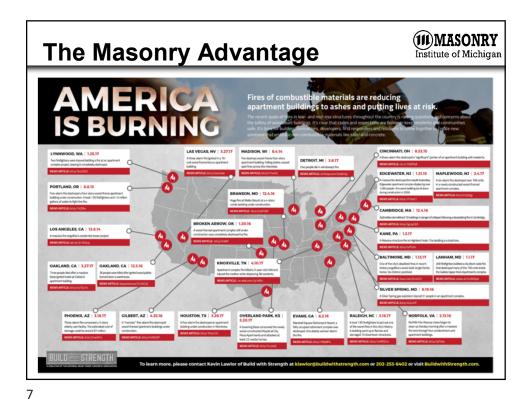




Structural system	Resistant to penetration by wind-borne debris	Non-combustible (2-4-hour fire resistance)	Resistant to storm surge	Flood resistant	Mold and pes resistant
Cast-in-place concrete (CIP)*	1	1	1	1	1
Precast concrete*	V	1	1	1	1
Tilt-up concrete*	1	1	1	1	1
Insulating concrete forms (ICF)*	V	1	1	1	1
Concrete masonry units (CMU)*	✓ (grouted & reinforced)	1	1	1	1
Insulated Concrete panels (ICP)*		✓ (requires noncombustible finish)		1	1
Wood frame		For 2-hr, code requires 1-2 layers of Type X drywall		Damaged by moisture	
Manufactured wood/mass timber		For 2-hr, code requires 1-2 layers of Type X drywall	1	Damaged by moisture	1
Concrete systems are assumed to be and residential construction and 600 Manufactured wood includes cross-I	00 psi (42 MPa) for mid-rise up		ressive strength of	2500 to 4500 psi (17 to 31 i	MPa) tor low-rise



⁶

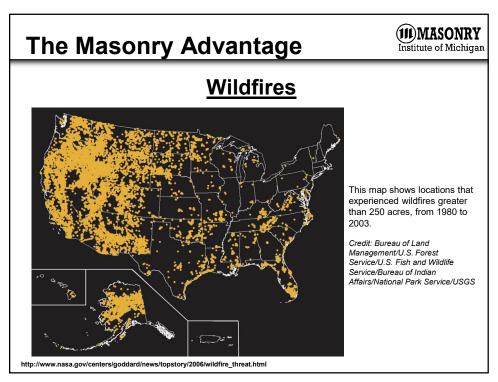


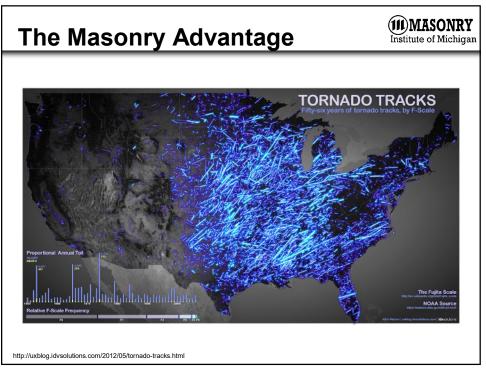




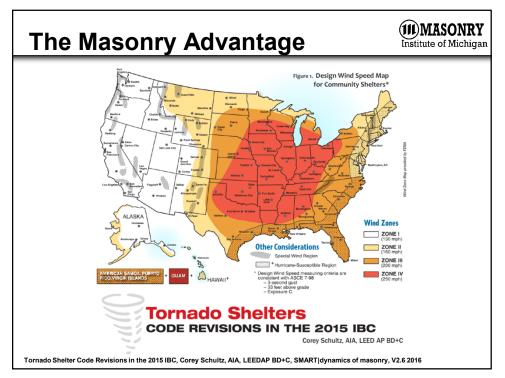




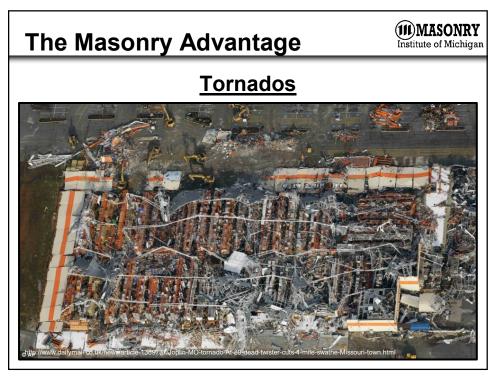






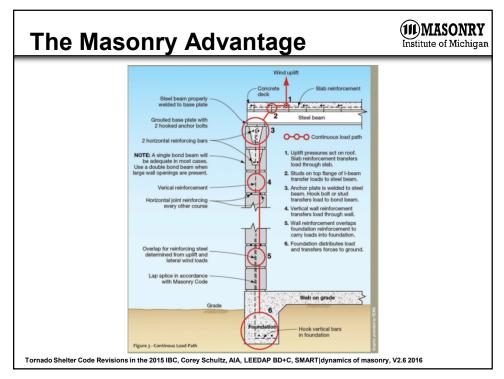


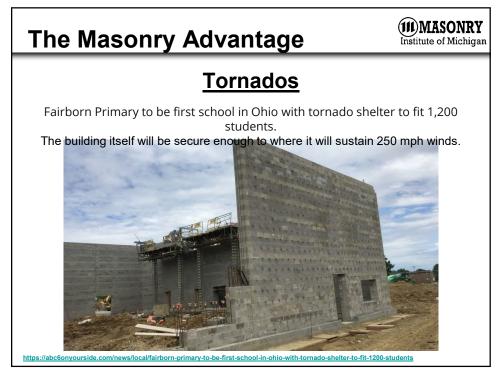
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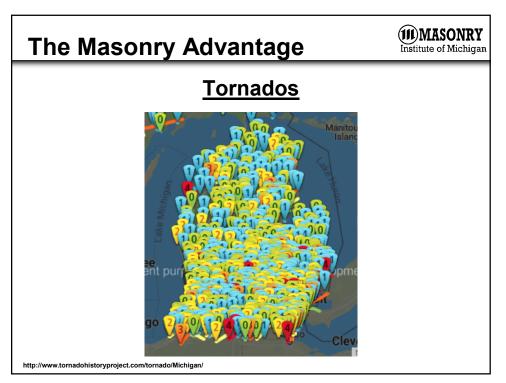




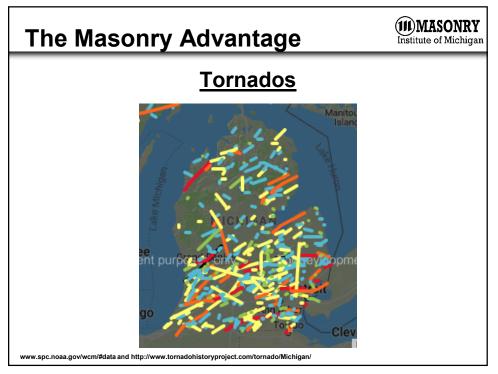
		Institute of Mic
	Common Building	Stronger Building
Amount of Vertical Reinforcement	Contained #4 vertical reinforcement on both sides of openings and in the corners	Added #4 vertical reinforcement at a maximum spacing of 8' on center along all walls
Connection of the bond beam to the vertical wall steel (Primary failure area)	No hook bars extended into the bond beam. The vertical bars were allowed to extend into the bottom of the bond beam 1/4"	90° hook bars extended fully into the bond beam and extended down into the wall to lap with the vertical wall steel
Corner bars for continuity of reinforcement in bond beams around corners	No corner bars were used in bond beams	Corner bars in bond beams were used to fully connect the walls together at the top corners
Bond Beam Depth	Used an 8" deep bond beam at the top of the wall	The bond beam depth was increased to 16" (two courses). Both courses contained (2) #4 bars in the top of each course

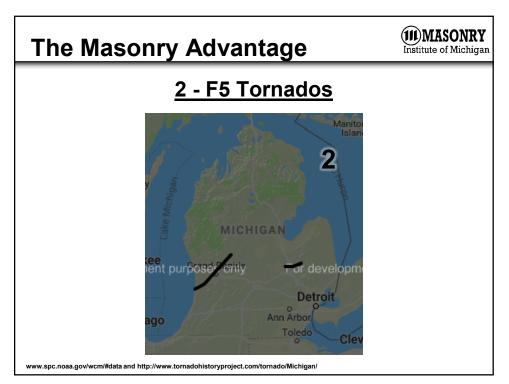




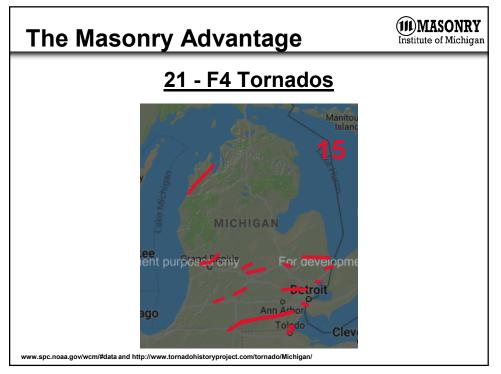


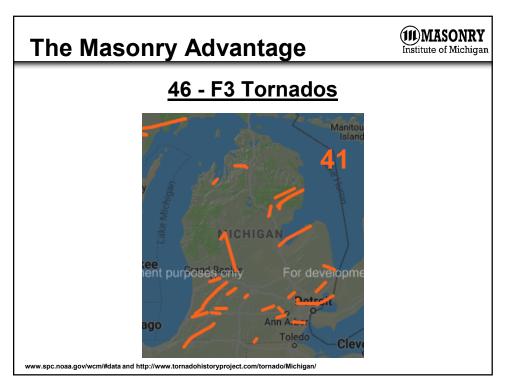
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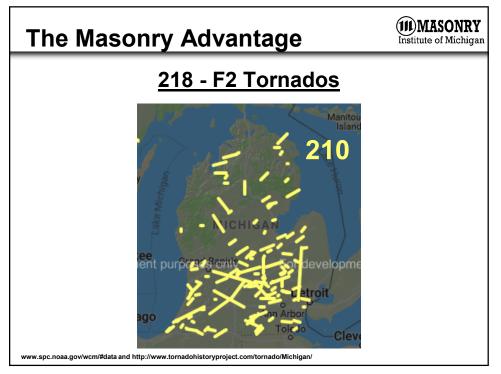


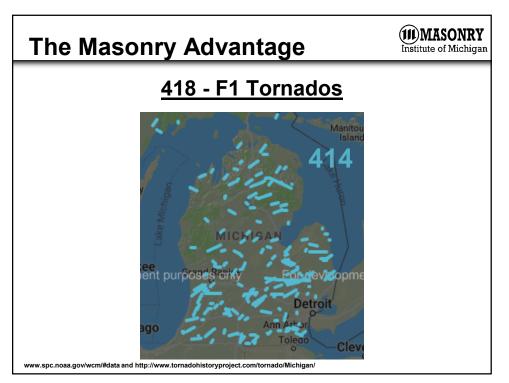
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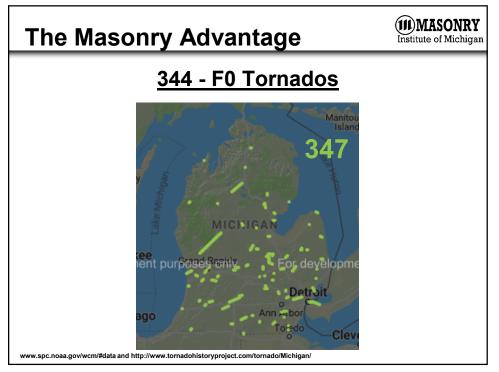




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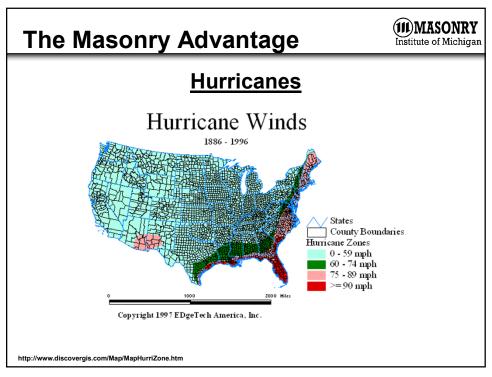






The Ma	MASONR Institute of Michic					
<u>Tornados</u>						
F	Number	Fatalities	Injuries			
0	347	0	12			
1	414	5	127			
2	210	16	346			
3	41	12	312			
4	15	50	1062			
5	2	133	1136			
TOTAL	1029	216	2995			





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