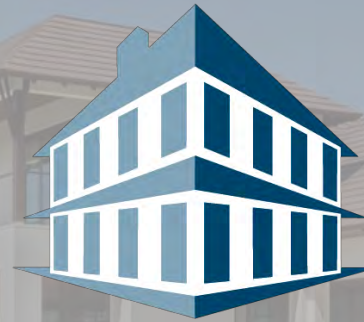





Joe Smallwood
BCB Homes – CEO



Greg Brisson
BCB Homes – President



BCB HOMES®



“Florida Hurricane Damage – What Have We Learned”



BCB HOMES®



HURRICANE IAN
LATEST ADVISORY



TAMPA

FORT MYERS

MIAMI

KEY WEST

Hurricane Ian
September 28th, 2022

150 MPH Wind Speed

...tied for the fifth-strongest on record in the United States.
Tied for the fourth-highest in Florida.



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SCV

> STRONGEST U.S. LANDFALLING HURRICANES SINCE 1851

HURRICANE	YEAR	LOCATION	CAT	WINDS (MPH)
1. UNNAMED	1935	FL	5	185
2. CAMILLE	1969	MS	5	175
3. ANDREW	1992	FL	5	165
4. MICHAEL	2018	FL	5	160
T5. IAN	2022	FL	4	150

12 Foot Storm Surge

...recorded shortly after landfall.

The surge was timed perfectly with a “King Tide”.



21.16" of Rainfall in 36 Hours

Highest ever recorded was 26.95".



\$113 Billion in Damage and Counting

Hurricane Ian was the 3rd most costly storm in U.S. history.



30,000 Homes Damaged

Over 5,000 homes completely lost.



149 Lives Lost

Deadliest storm to hit Florida in 90 years.



358,000 Vehicles destroyed



Time Lapse From 10am-6pm – Ft. Myers, Florida



(a) 9/28 10:38 AM



(b) 9/28 1:39 PM



(c) 9/28 2:19 PM



(d) 9/28 3:03 PM



(e) 9/28 5:03 PM



Sanibel Causeway



Ft. Myers Pier



Local Marina



Ft. Myers Beach



BEFORE



AFTER

Florida Building Codes Made a Big Difference for Newer Homes in Ian, Reports Show

By William Rabb | October 17, 2022



- Frangible Slabs
- Breakaway Walls
- Flood Vents
- Sliding Glass Doors
- Flood Remediation

Frangible Slab Collapse



Frangible Slab Pieces Deep Inside The Home



Damage Caused by Waterborne Frangible Slab Pieces



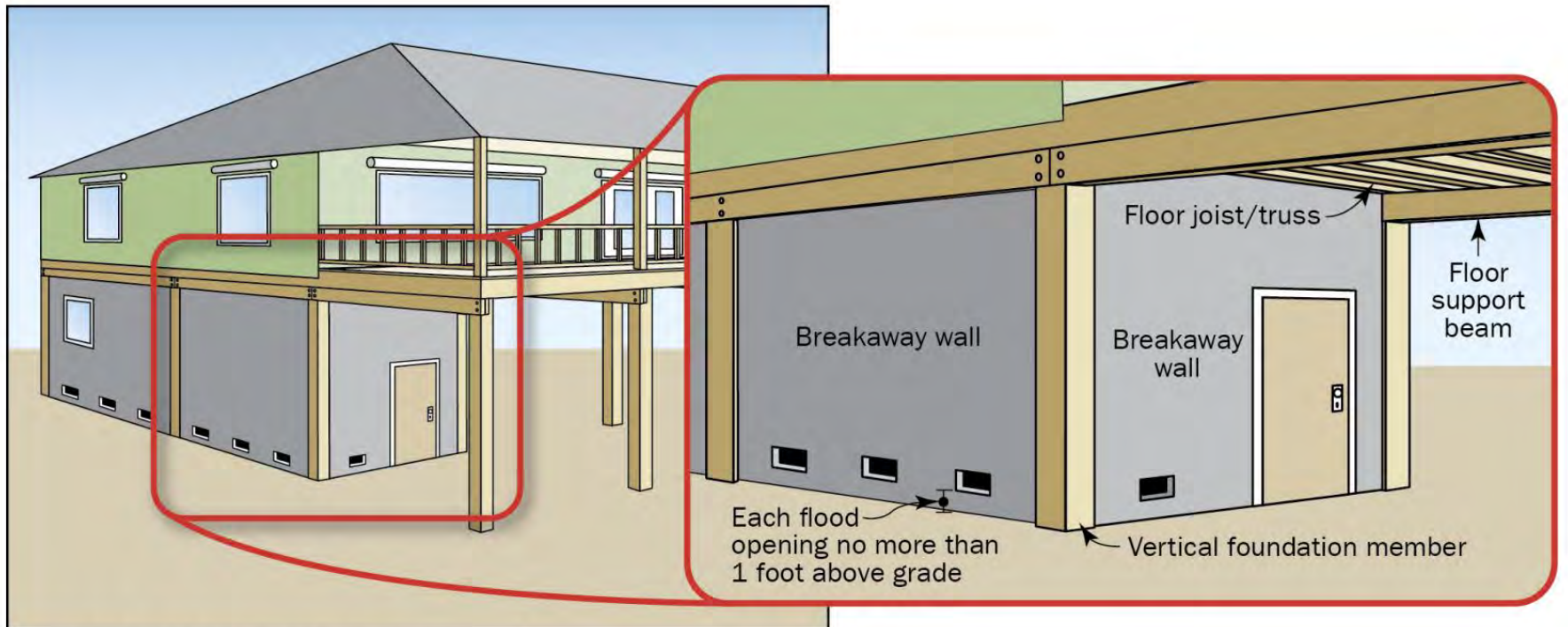
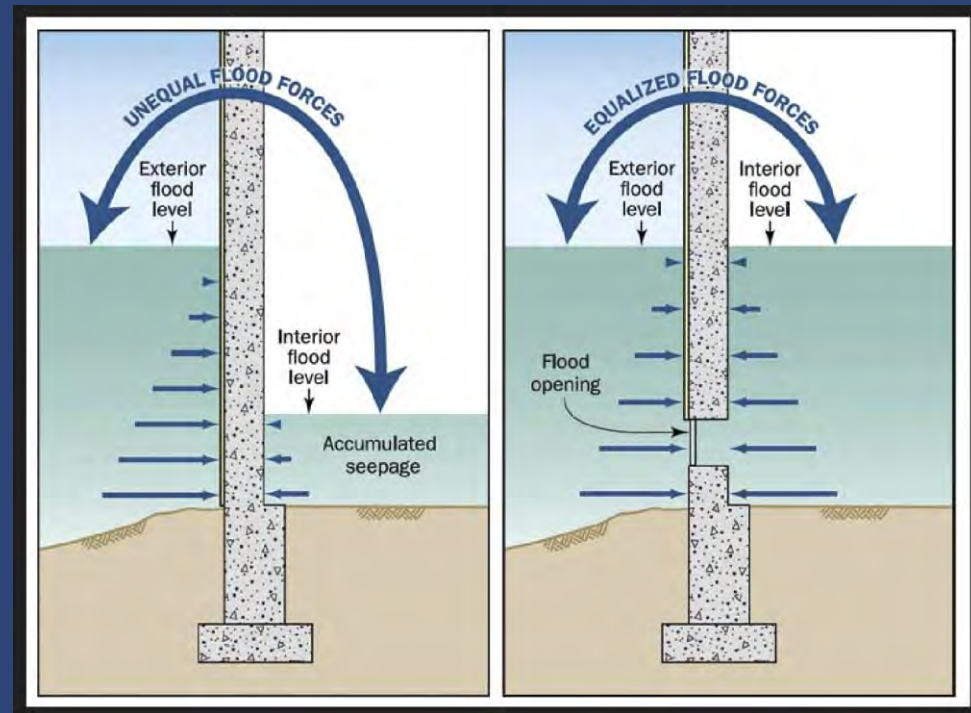
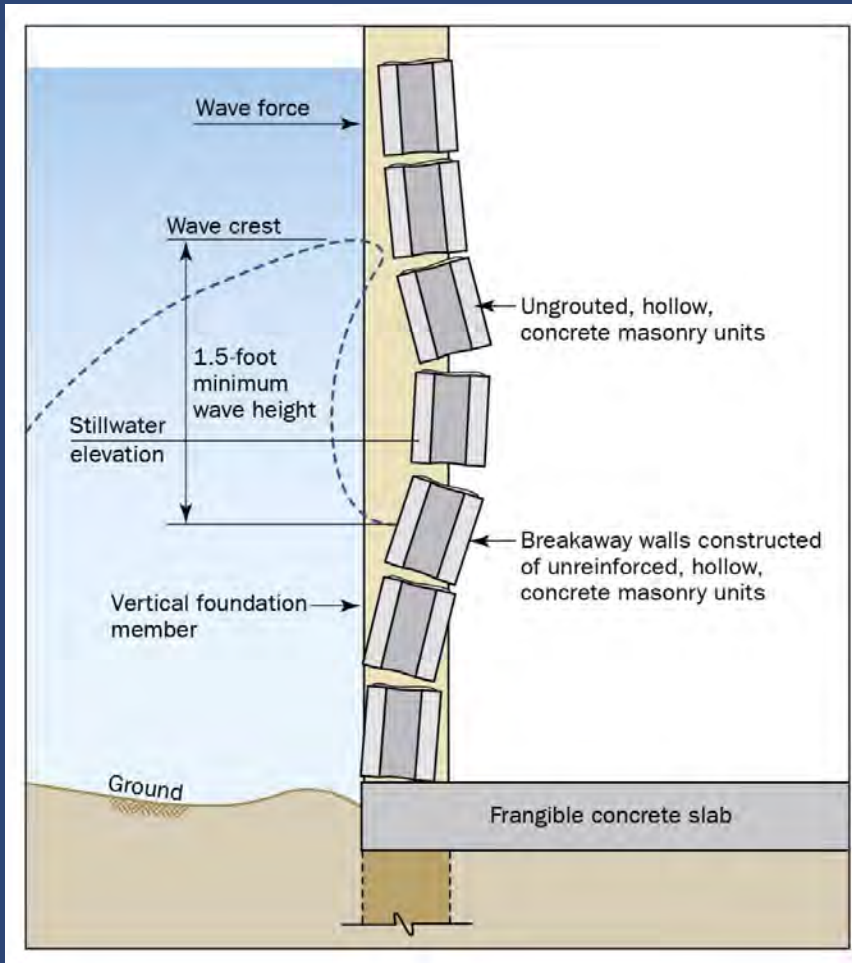


Figure 2: Flood openings in breakaway walls

Implementation of Breakaway Walls and Flood Vents

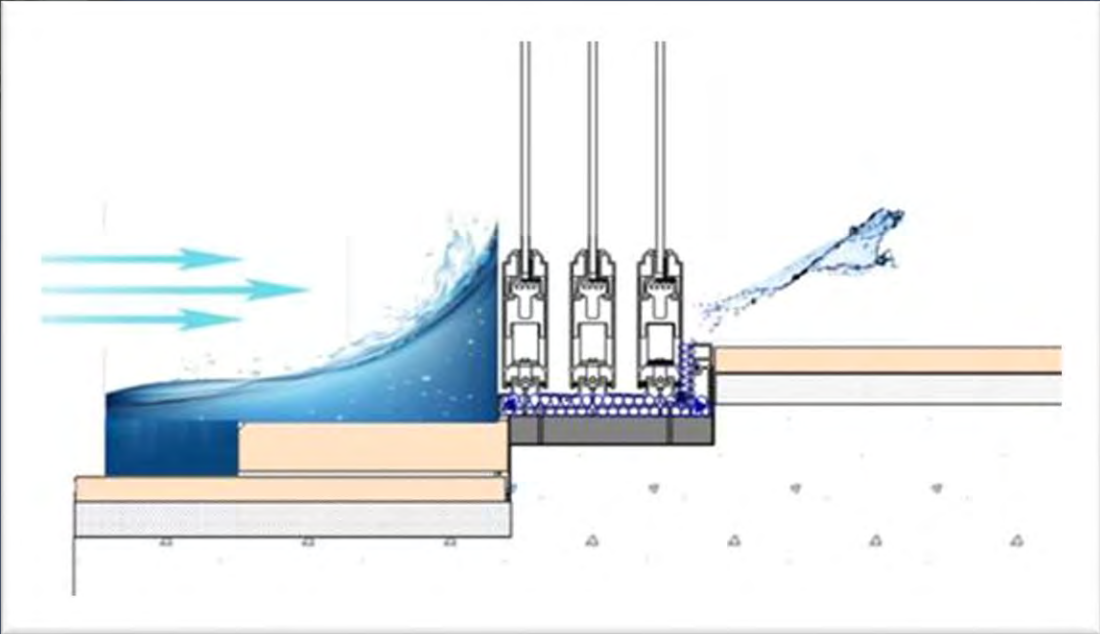
The Design Concept of Breakaway Walls and Flood Vents



The Performance of Breakaway Walls and Flood Vents



Code Compliant Sliding Glass Door Installation





Code Compliant Sliding Glass Door Performance

IICRC S-500 CATEGORY 3 WATER

Category 3 water is grossly contaminated and can contain pathogenic, toxigenic, or other harmful agents and can cause significant adverse reactions to humans if contacted or consumed. Examples of Category 3 water can include, but are not limited to: sewage; wasteline backflows that originate from beyond any trap regardless of visible content or color; all forms of flooding from seawater; rising water from rivers or streams; and other contaminated water entering or affecting the indoor environment, such as wind-driven rain from hurricanes, tropical storms, or other weather-related events. Category 3 water can carry trace levels of regulated or hazardous materials (e.g., pesticides or toxic organic substances)



Building Below the Flood Line

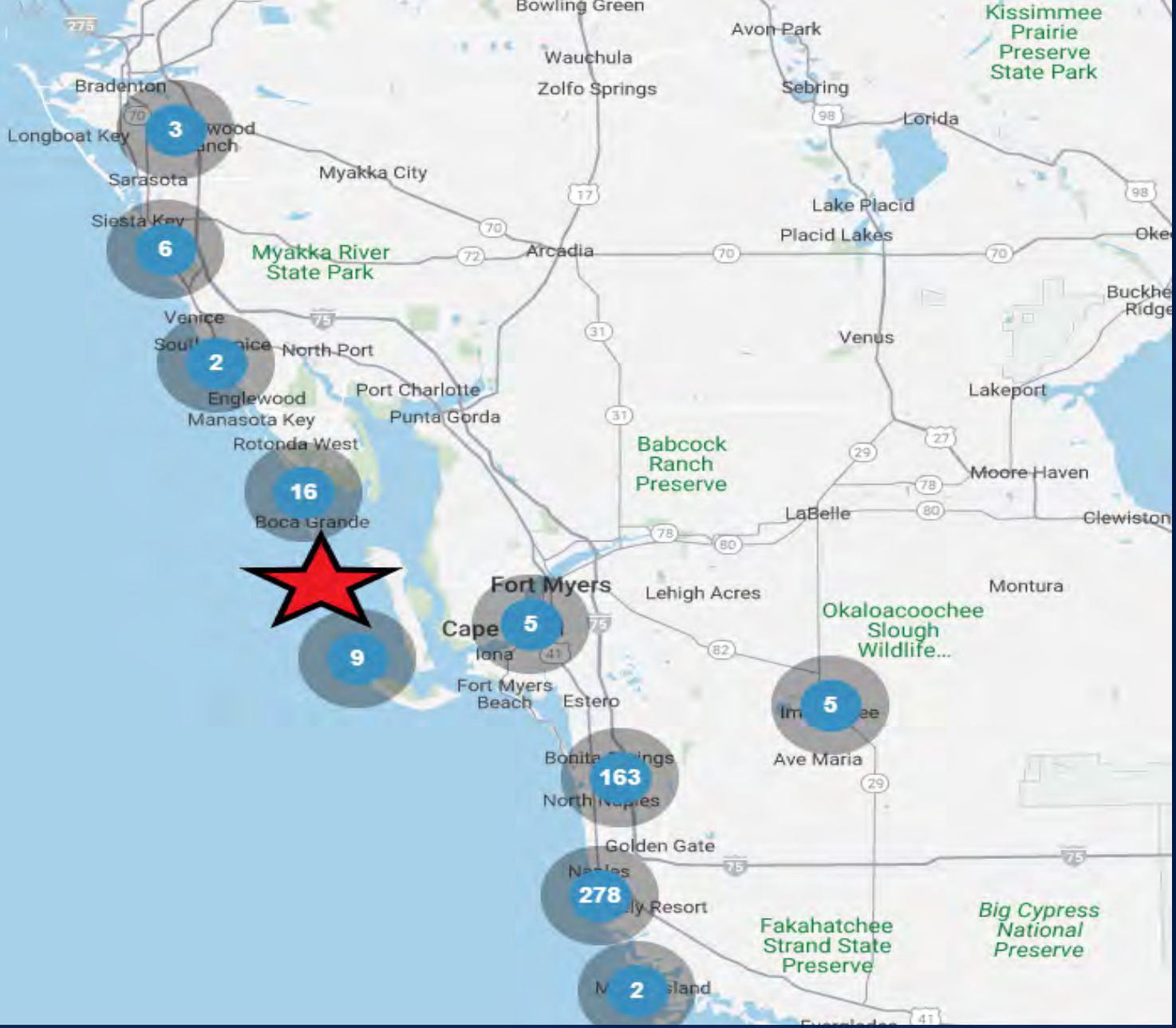




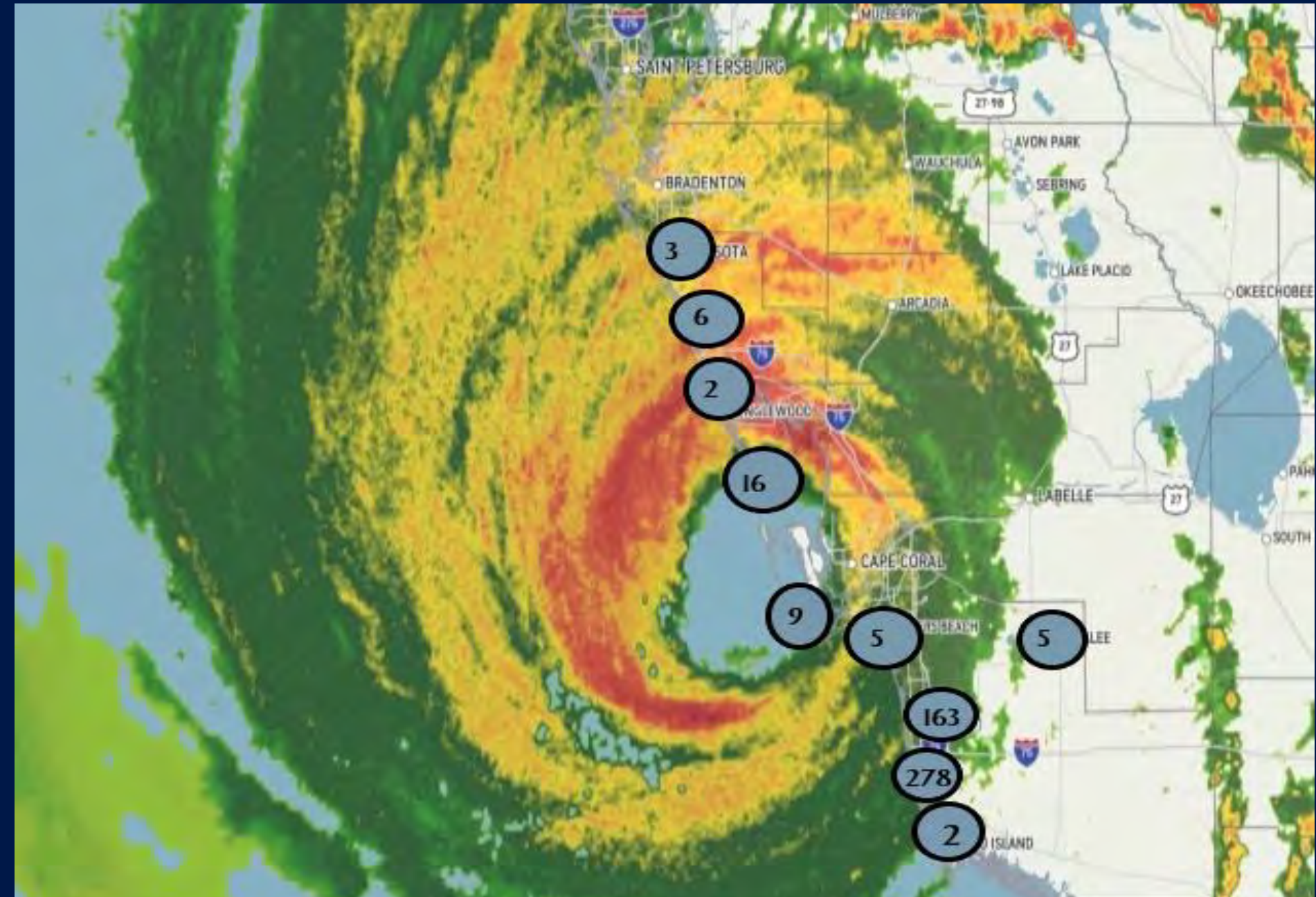
BCB HOMES®

- Structural System
- Roofing Systems
- Water Management
 - Windows
 - Decks and Doors
- Hurricane Ready





Where BCB Homes Builds



Ian Made Land Fall Just South of Boca Grande

Hurricane Resistant Structure - Concrete, CMU, and Wood Trusses



Wood Truss Strap Attachment to Concrete Structure



Roof Truss and Sheathing System



Good:

5/8" AdvanTech Sheathing
fastened with ring shank nails

Better:

3/4" AdvanTech Sheathing
fastened with screws and glue
to trusses

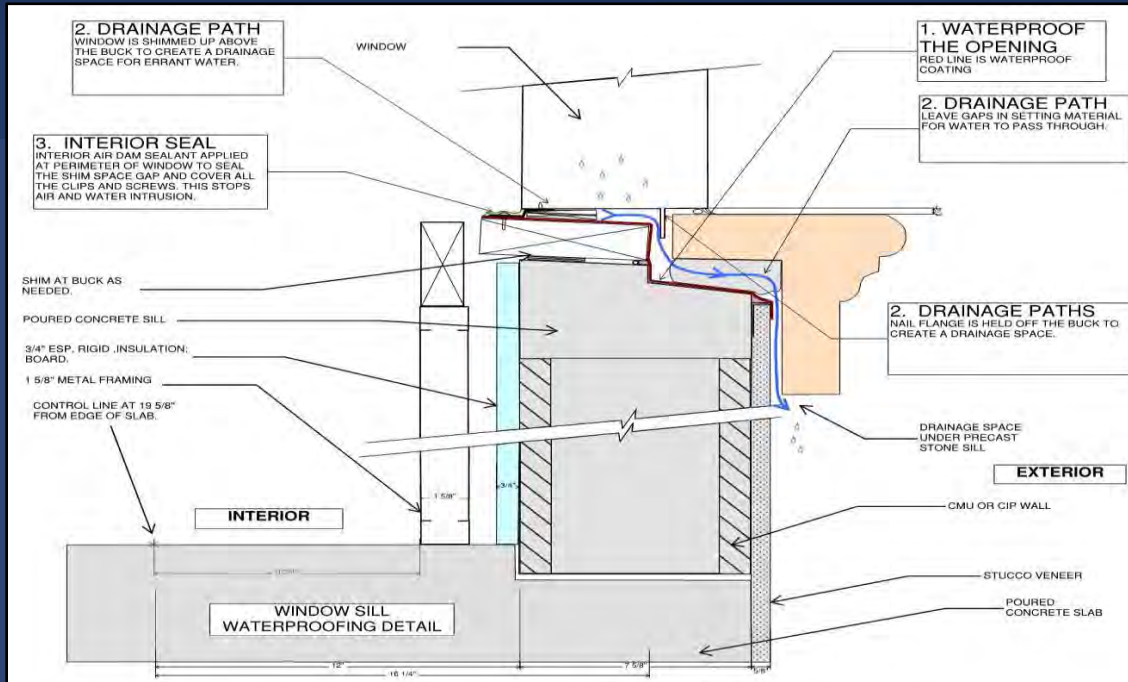
Best:

3/4" AdvanTech Sheathing
fastened with ring shank nails
with 2lb closed cell foam
sprayed to the underside

Roof Tile Installation



Window Installation Design & Process



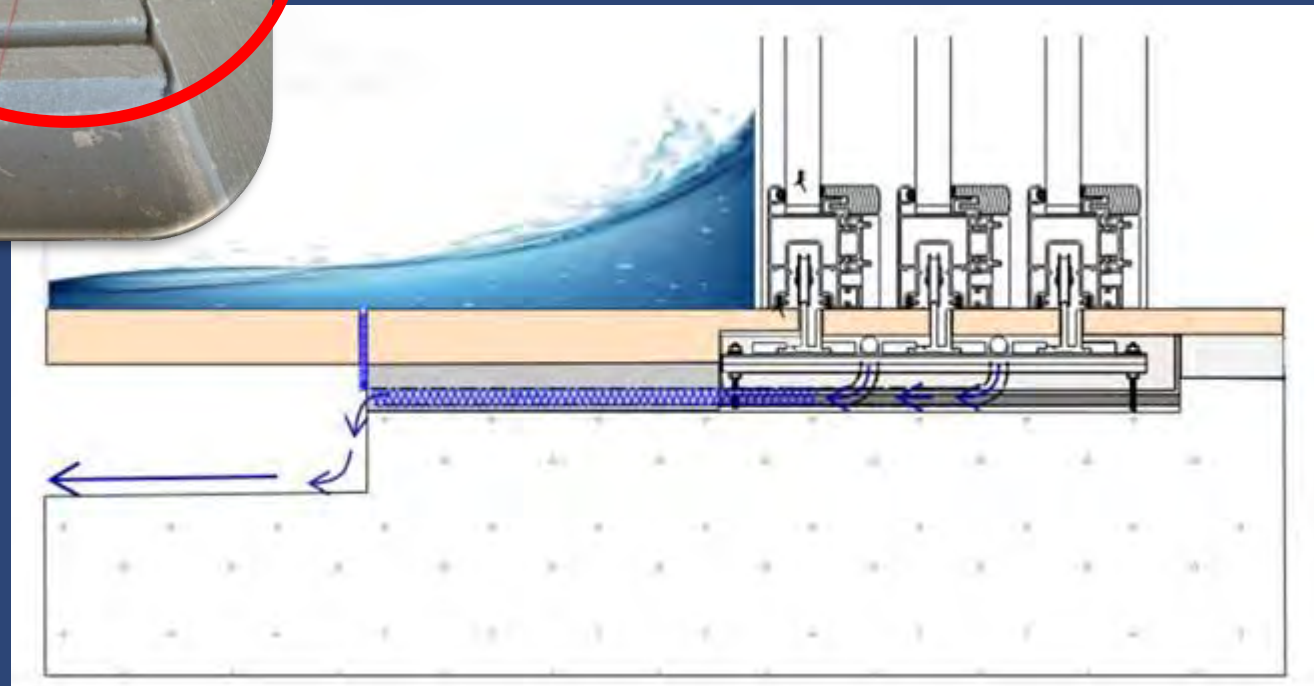
Finished Window Installation



Pedestal Supported Deck with Hidden Drainage



Pedestal Supported Deck with Hidden Drainage Adjacent to Lift and Slide Door



Finished Pedestal Supported Deck with Hidden Drainage



Hurricane Roll Down Shutters



Hurricane Ready





BCB HOMES®

Thank you!