



Hangar Reconstruction Brief

190406



Agenda

- Review storm damage
- Review progress to date
- Review short term plan
 - Swing gates
 - Old hangar door removal
- Review long term plan
 - Rent abatement
 - Structural Engineer
 - Barn door hangars 4N-7S
 - Sliding door angle iron track hangars 8S-15S
 - Perimeter fence repairs
 - Final cleanup

Please hold all questions and comments until
the end of the brief.

13 March Storm Damage

Approximately 67 aircraft damaged



Air Traffic Control Tower recorded 94
kt / 108 mph peak wind



16 Hangar buildings
& portions of
perimeter fence
damaged





Progress to Date

(Highlights)

- Removed all dangerous hangar doors within our capability.
- Secured perimeter fence.
- Completed minor repairs to jammed doors and hangars.
- FOD swept Airport.
- Replaced trash cans.
- Restored power to 8S.
- Ordered manual swing gates.

Short Term Plan

- Secure T-hangars missing doors with manual chain link swing gates & screen.
- Purchase Order issued 3/29.
Hanging to begin 4/8.



- Contractor to remove remaining dangerous hangar doors & all doors along fence line during the next few weeks. PO issued on 4/5.

Long Term Plan

- Rent abatement : 25% off rent for storm affected hangars.
- Structural Engineer to analyze 8S-15S & recommend repairs.
- Aviation steel building contractor to perform the following once PO is issued:
 - Barn door hangars 4N-7S
 - Replace with similar design.
 - Perform major structural repairs to 8S and re-roof with insulation.
 - Sliding door angle iron track hangars 8S-15S
 - Replace with most economical & practical door system.
 - Higher Power Hydraulic Doors. (see next slide)
 - Repair roofs and panels over 16 buildings.
 - Final cleanup
- Repair damaged perimeter fence panels & security flood lights.

Note: Aircraft will be temporarily removed from hangar unit (for the day only) when repairs commence on that unit. Airport staff will supervise contractor for safety concerns & loss/theft prevention. We will contact each tenant prior to work commencing on their hangar.

Higher Power Hydraulic Doors

- Best retrofit for 8S-15S (excluding 14S)
- No Hinges, No Headers, No Straps, No Cables, No Wheels, No Tracks!
- Weather stripping on all four sides of door.
- Pass thru personnel door will be mounted on HP Door.
- Most economical fix.
- Once PO is issued, 22 weeks lead time for first set of doors, then 4 weeks for each additional set.
10-12 months total install time.

Video:

<https://youtu.be/8bEIKtZ2C0Q>



The fastest way to access and secure your building.

You need to ensure the security of your hangar or storage building, but you also want fast and easy access. We build Higher Power Hydraulic Doors with that in mind.

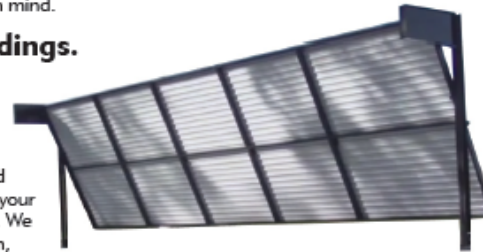
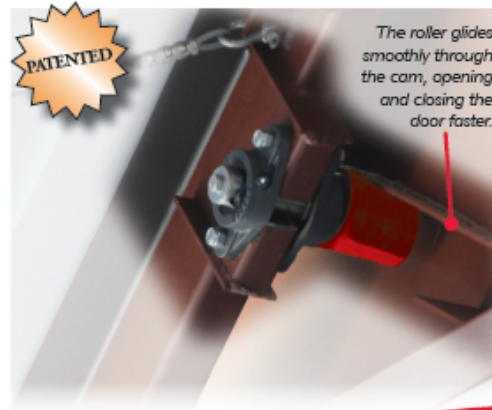
Ideal for retrofitting existing buildings.

These doors are completely self-supporting

There are no vertical or horizontal loads to stress your structure like conventional bi-fold, swing, and cable-lifted doors. Our patented cam and roller technology enables your door to ride smoothly, at an unbeaten open/close speed. We also engineered in the safety, security, ease of installation, and maintenance features you want.

Safety is our top priority.

- Each cylinder is custom designed with holding valves built into the cylinder— not an afterthought elsewhere in the system.
- To activate the door the operator must constantly press the up/down switch. Door opens, closes, stops and reverses at any height.



**NAME YOUR DOOR SIZE:
FROM 160' WIDE TO 60' HIGH.**

Security.

- Automatic locking mechanism built into top and bottom of door frame.
- Stiffening truss is located mid-point of door not at the bottom. Allows for easy access and snow removal.

Easy to install. Even easier to maintain.

- Simple, easy-to-follow installation instructions. Door bolts together without special tools. Do it yourself and enjoy full factory-support and 5-year warranty.
- Professional installation assistance available from Higher Power Hydraulic Doors®; backed by 6-year warranty
- Once installed, this door is virtually maintenance free.
- Installs on new or existing structure (**adapts to pole barn wood frame with no additional header requirements**).
- Add optional windows or pass-through door in the style and size you want.
- Optional 12-volt back-up system.
- Optional remote controls available.



**HIGHER POWER®
HYDRAULIC DOORS**

Patent Nos.
8,245,446 & 8,539,716

...opening new vistas.

1400 Territorial Rd., Benton Harbor, MI 49022

Phone: 269-927-8990 • Fax: 269-927-1400 • Website: www.hpdoors.com • E-mail: sales@hpdoors.com



Built for smoother, faster ride.

The new patented cam mechanism design reduces head room requirements and system operating pressure.

Built strong. Higher Power Hydraulic Doors® are completely self-supporting. Door attaches to its own framing (no hinges to wear or repair like our competitor's doors). Unlike bi-fold or one-piece hydraulic doors, this design doesn't impose vertical or horizontal loads on your structure either.



Built for easy access. Cylinders mount inside the slide column. Gives your structure the side clearance and open vistas you want.

Here are 3 ways to see our door in action!

- www.hpdoors.com: See a video demonstration showing how our doors operate
- Fly into Benton Harbor, Michigan (KBEH) airport to watch it perform live
- Call us to find a door closer to your location

Once you see it in action, you won't trust the security of your building to anything else.

CLIENT TESTIMONIAL



190mph Sustained Winds



Hurricane Joaquin, Crooked Island, Bahamas - September, 2015

"Roland: Thanks for building a strong door. It is a little tweaked because my building is laying on top of it, but it is the only thing I can reuse." — Scott M.



Our doors withstood the 190mph winds.

Need more information or an estimate? Call or e-mail us now.



WE BELIEVE - that God gave us the ultimate gift of Jesus Christ, His son. Second, that He gave us this door concept to share with you. If you purchase our product, we trust that it will serve you well for many years to come, and we hope you enjoy your door as much as we enjoy ours.

— Roland & Linnea Betker

...opening new vistas.

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How can you help?

- Spread the word about this brief.
- Pick up FOD when you see it.
- Push small or light items to the back of your T-hangar if you are missing doors so items don't migrate on to the taxilanes and ramp.
- Ensured the first 5 ft from your hangar door inwards is clear so workers can install the new doors.

Grand Prairie
— T E X A S —
AIRPORT

Questions?