



HIRSCHFELD
INDUSTRIES
BRIDGE



STEEL: THE BRIDGE MATERIAL OF CHOICE

2011 North Carolina Steel Bridge Workshop

Virtual Shop Tour

September 14, 2011

1



HIRSCHFELD
INDUSTRIES
BRIDGE

Headquartered in San Angelo, Texas, the Hirschfeld family of companies date back to 1919.

Today, Hirschfeld's 10 facilities with over 850 employees provide a national presence and industry leading footprint with annual fabrication capacity of over 100,000 tons. Using the latest computer modeling technology, CNC equipment and production techniques Hirschfeld fabricates every project to the most exacting specifications in serving end markets that include; Transportation Infrastructure, Industrial Development, Commercial Construction and Power Generation.

2



Bridge Facilities & Capacities

National Bridge Division

Offices – Greensboro, North Carolina
Irving, Texas

5 Manufacturing Plants

Abingdon VA. –	236,400 sq.ft. –	10,000 tons
Colfax NC –	270,000 sq.ft. –	13,000 tons
Montgomery AL. –	111,000 sq.ft. –	10,000 tons
Nash County NC –	99,200 sq.ft. –	7,000 tons
San Angelo TX. –	283,400 sq.ft. –	19,000 tons

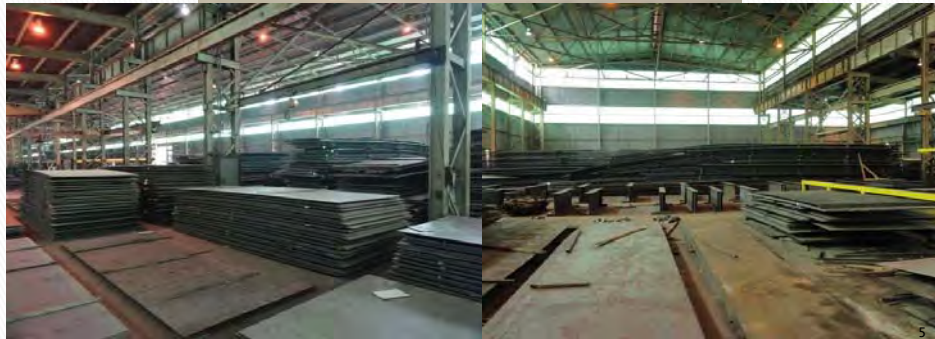
3

Plate Girder

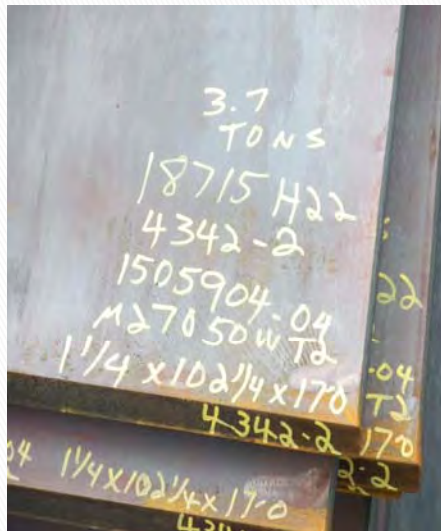


4

Raw Material



Raw Material – Identification



Layout



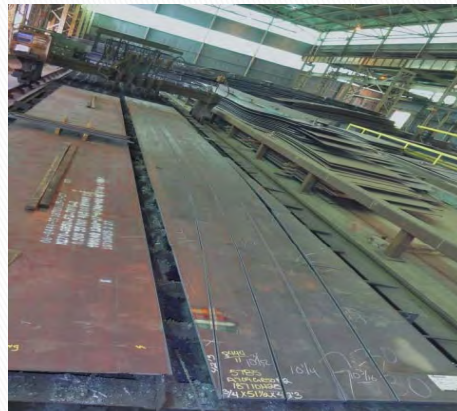
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Weld Prep



8

Burning



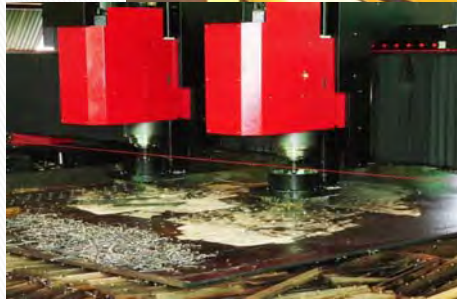
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Shop Splicing (SAW)



10

Plasma Burning - High Speed Drilling (Kinetic)



11

Kinetic



12

Preparation – Girder assembly



13

Squeezer (Web to Flange – GMAW)



14

Tractor Weld – SAW



15

Tractor Weld cont'd



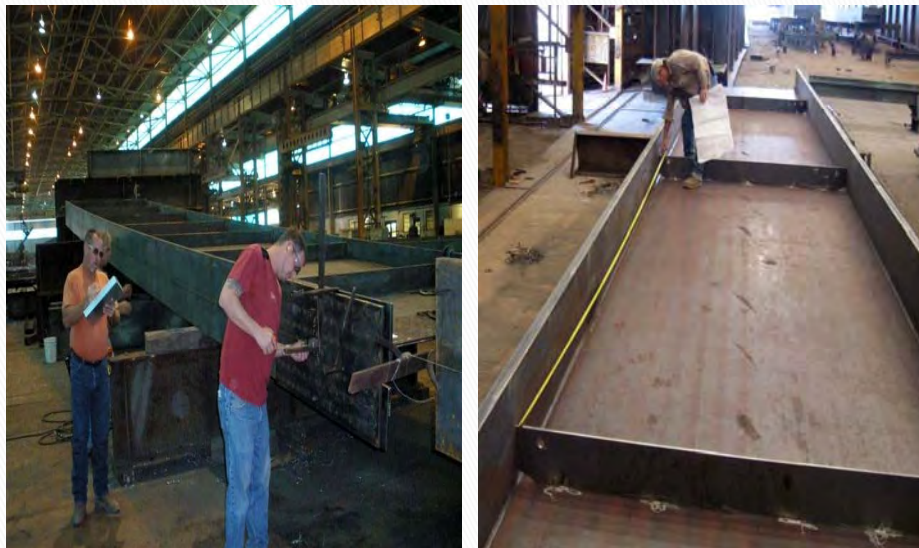
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Stiffener Fit



17

In Process Inspection



18

Dart Welding



19

Laydown – Vertical Assembly



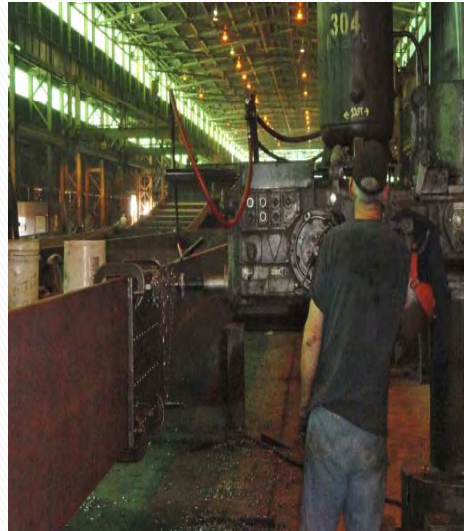
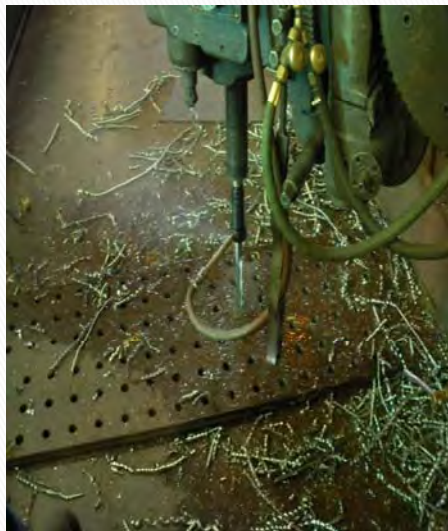
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Laydown – Horizontal Assembly



21

Laydown Drilling



22

Blast Cleaning



23

Painting



24

Final Inspection



Final inspection is performed first by HIB's in-house QC department
and
Lastly by the owner's quality representative

25

Shipping (cont'd)



26

Shipping



27

Shipping (cont'd)



28

Shipping (cont'd)



29

Final Results



Knightdale By-Pass

30

Final Results



Pearl Harbor Memorial Bridge – New Haven, CT.

31

One of the first bridges produced by Hirschfeld/Carolina Steel – Circa 1931



32



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Thank You

33