# About Us...

Founded in 1970 as GORDON'S SPECIALTIES, INC., we are now known as GSI HIGHWAY PRODUCTS. GSI is a major producer and supplier of highway products to the highway, bridge, and utility construction markets.

Our state of the art fabrication equipment, stable workforce, and vast experience allow us a solid position in these highly competitive markets.

From accurate pre-bid takeoffs to careful loading of the finished product, you can count on the people of **GSI HIGHWAY PRODUCTS** to service your project requirements.

# Other Products...

ALUMINUM AND STEEL BRIDGE RAILS All types of Traffic and Combination Bridge Railings meeting numerous city, county, and DOT specifications. We also stock replacement parts for many out-of-date aluminum bridge railing systems.

ALUMINUM AND STEEL HANDRAILS A wide variety of standard and madeto-order handrails and pedestrian railings meeting city, county, and DOT specifications.

**BRIDGE EXPANSION JOINTS** Structural Armor Joints, Rapid-Curing Silicone, and Strip Seal Expansion Joints (SEJ).

**ELLIPTICAL TUBE FOR BRIDGE RAIL** GSI is the master distributor of the Tex-Tube Elliptical Tube for Bridge Rail in the United States.

MISCELLANEOUS FABRICATED STEEL Ornamental Appurtenances, Bridge Protection Angles, Deck Drains, Wide-Flange Terminal Anchor Beams, Concrete Barrier Connection Hardware, to name a few. GSI is a licensed producer of Easi-Set J-J Hooks® Positive Connector for concrete barriers (sold only to licensed precasters).

HIGH-TENSION CABLE BARRIER GSI is a multi-state exclusive distributor for the Nucor (formerly SAFERoads™) U.S. High-Tension Cable Barrier System. We maintain a complete inventory of replacement parts, including CRP Cable Release Posts, Nucor Rib-Bak® line posts, cable, and associated hardware. Visit www.gsihighway.com/nucor.htm

TRAILER TMA-100 GSI is the exclusive distributor of the innovative Safety Trailers Inc. (STI) TTMA-100 (trailer TMA) for Texas, with ability to sell in markets across the United States, Mexico, and the Middle East. Visit www.gsihighway.com/safetytrailers.htm

FIELD SERVICES In select markets we field-fabricate railings that do not lend themselves to shop fabrication. We also offer limited installation services for railings we fabricate.

# Contact Us...

GUARDRAIL SALES Ryan Holland (972) 225-1660 ext. 24 (972) 225-6662 FAX ryan@gsihighway.com CORPORATE FACILITIES & WAREHOUSE
720 West Wintergreen Road
Hutchins, Texas 75141
Customer Pick-Up & Delivery
Monday thru Friday



Specialty Bridge Rail TxDOT C201(mod) Beach Street over IH30 Fort Worth, Texas



PRT Pedestrian Rail Gosling Road Bridge The Woodlands, Texa



C4(s) Bridge Rail, Painted Central Texas Turnpike Austin, Texas

MEMBER OF
Associated General Contractors of Texas (AGC)



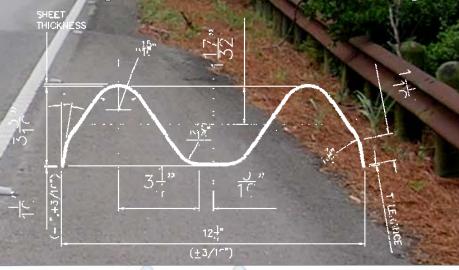




# Guardrail Products

GSI Highway Products is a TxDOT-approved warehouse for guardrail and posts.

We STOCK what you need for delivery NOW!



www.gsihighway.com

720 W. Wintergreen \* Hutchins, Texas 75141 \* (972) 225-1660 \* FAX (972) 225-6662

Cover Photo: Weathering Steel Guardrail near Bastrop, Texas

7:00 a.m. to 4:30 p.m



## GSI'S INVENTORY OF GUARDRAIL PRODUCTS INCLUDES:

Delivery available Monday through Friday. Customer pick up available from 7:00 a.m. to 4:30 p.m.

## GUARDRAIL (MBGF)

- 25' W-Beam (12 GA) with 0, 3'-11/2", 6'-3", 8'-4", 12'-6" post hole centers
- 12'-6" W-Beam (12 GA) 0, 6'-3" hole centers
- 6'-3" W-Beam (12 GA)
- Radiused 12'-6" W-Beam (12 GA) at 5' to 60' radii
- T6 Bridge Rail Panels & Hardware

## Posts (STATE & NON-STATE)

- Domed Timber Post 6'-3"
- Steel Line Post for W-Beam and ThrieBeam rails
- Steel Base-Plated Post 2'-4", 5'-0" (Culvert)
- Steel Terminal Anchor Post
- Composite Blocks (Spacers) for Timber and Steel Posts (6"x8"x14")

### **END TREATMENTS**

- SGT (ET2000/SKT) Type I, II, III, and Repair Parts
- Terminal Anchor Section ("TAS" or "turndown")
- Flared End Wing ("Lobster Tail")
- Terminal Connector Shoe ("End Shoe")
- Rounded Terminal Connector ("Question Mark")
- 90 Degree Corner (Fabricated)
- Median Terminal Buffer, 6" and 11 <sup>1</sup>/<sub>8</sub>" Radii

Can you guess what the photos below are of? Visit our Guardrail Webpage to find the answers. www.gsihighway.com/guardrail.htm

#### **TRANSITIONS**

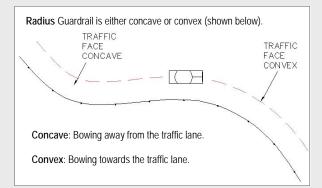
- Thrie-Beam
- T101
- TL2 (Low Speed)
- MGS Thrie-Beam

#### **N**EED HELP WITH A TAKEOFF OR PLACING AN ORDER?

It is important we know the following to ensure you get the product you need the

- Is this a state or non-state job? Statetested inventory cannot be shipped to non-state jobs.
- If it is a state job, what is the project information?
- How many runs are there?
- Is the rail blocked out?
- Do you need radiused rail? How many curves? Length? Radius of each?
- Steel or timber posts?
- Are there low-fill culverts that will require base-plated posts? How thick is the culvert "top"?
- What end treatments do you need? TAS?, FEW?, SKT? SGT Type I, II, or III?
- To what type of concrete railing are we attaching the transitions?

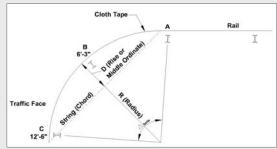
Providing takeoff assistance is just another value-added service we're glad to offer!



All our products are TxDOT approved. We have been doing business in Texas for almost 40 years.

**WE STAND BEHIND OUR REPUTATION!** 

#### FUNCTIONS OF A 12'-6" ARC FOR DIFFERENT RADII



5	143° 14′	9'-57/8"	3'-5"
10	71° 37′	11'-83/8"	1'-10¾"
15	47° 45′	12′-1¾"	1'-33/8"
20	35° 50′	12'-35/8"	11 <sup>5</sup> / <sub>8</sub> "
25	28° 39′	12'-43/8"	<b>9</b> 3/8"
30	23° 52′	12'-4 <sup>5</sup> / <sub>8</sub> "	73/4"
35	20° 28′	12′-4¾"	6 <sup>5</sup> / <sub>8</sub> "
40	17° 54′	12'-47/8"	5 <sup>7</sup> / <sub>8</sub> "
45	15° 55′	12′-5″	5¼"
50	14° 20′	12'-51/8"	45/ <sub>8</sub> "
60	11° 56′	12′-5¼"	37/8"
70	10° 14′	12'-5 <sup>3</sup> / <sub>8</sub> "	33/8"
80	8° 56′	12'-5 <sup>1</sup> / <sub>2</sub> "	3"
90	7° 57′	12'-5 <sup>5</sup> / <sub>8</sub> "	25/8"
100	7° 10′	12′-5¾"	23/8"
110	6° 31′	12'-5 <sup>7</sup> /8"	21/8"
120	5° 58′	12′-6″	2"
130	5° 31′	12′-6″	1¾"
140	5° 7′	12′-6″	15/8"
150	4° 46′	12′-6″	11/2"

Radius Delta Chord Rise

#### To find the Radius for a curved rail:

Step 1: Starting at the last post in the straight run (point A), lay cloth tape along the path that the curved guide rail will follow.

Step 2: Mark-off two points along the curved cloth tape: one at 6'-3", (point B) and the second at 12'-6" (point C).

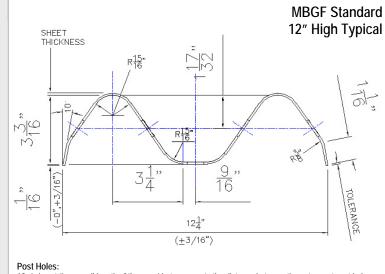
Step 3: Pull string directly from starting point (point A) to the second mark-off point (point C). Step 4: Measure from the first marked-off point (point B) over to the

mid-point of the taut string, this measurement (D) is the rise. Step 5: Check the chart to find the Radius (R), given the Rise (D).

Example: a Rise of 3 7/8" inches would result in a Radius of 60 feet

Note: Follow the steps above for each piece of rail section in the curved run. The arc may not be consistent and each consecutive piece of rail may differ in radius from the previous one.

GSI ships composite blocks (spacers) unless otherwise noted.



12'-6" is not the overall length of the panel but represents the distance between the outermost post holes. Thus a 12'-6" x 6'-3" panel is actually 13'-6 ½ " long, with post holes centered at 6'-3" apart.

