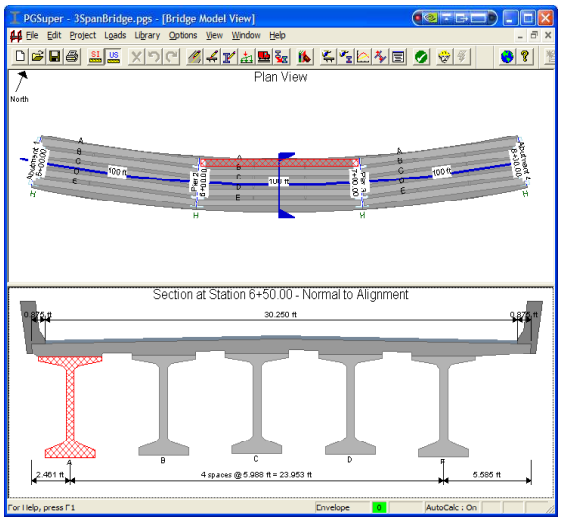
PGSuper Version 2.3

From concept through construction, PGSuper offers the most comprehensive, user-friendly, and technically advanced precast-prestressed girder design and analysis capabilities available.

New Features:

- LRFR Load Rating!
  - AASHTO Section 6A of the AASHTO Manual for Bridge Evaluation, 1st Edition, 2008
  - User-defined design, legal load, and permit rating vehicles
  - Rates for Operating and Inventory Levels
  - Routine Legal Live Loads
  - Specialized Legal Hauling Vehicles
  - Live Load Factors Can be Defined by Bridge Owner
  - Routine and Special Permits
  - Summary and Detailed Rating Reports
- End Blocks for I Beams, Box Beams, Slabs and Decked Slabs
- Automatic Computation of Shear Key Load for Box Beams
- Compressed library and template files for fast downloads
- Much More!

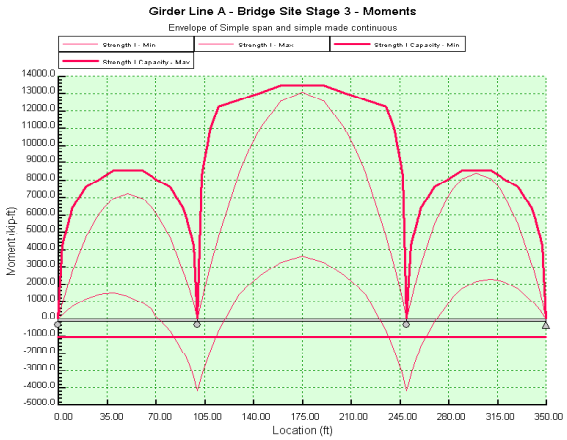


Visit the PGSuper Resource Center at PGSuper.com:

Our new web site gets you up to speed using PGSuper and keeps you running!

- Free Tutorials
- PGSuper News
- Community Support Center
- Downloads

http://www.pgsuper.com



PGSuper is Easy on Your Budget!

With PGSuper there are no licensing fees, no copy protection, no maintenance fees, or mandatory contract renewals. PGSuper is open source software and you can download it today from:

http://www.wsdot.wa.gov/eesc/bridge/software/

PGSuper Partners:

Washington State Department of Transportation

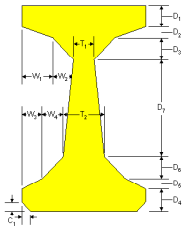
Texas Department of Transportation

BridgeSight Software™

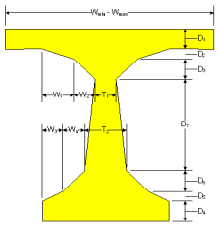
Got Sections? *PGSuper's parametric girder shapes support virtually all sections made in the US including all AASHTO shapes*

Need Another Section? *Contact BridgeSight and we'll add it for you!*

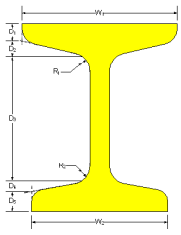
Precast I Beam



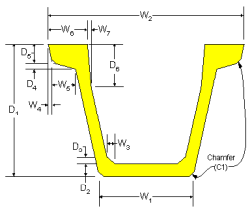
Deck Bulb T



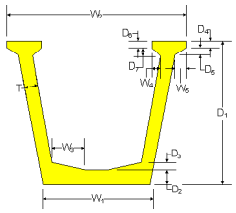
Nebraska NU



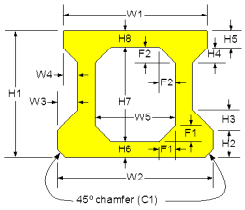
TxDOT U



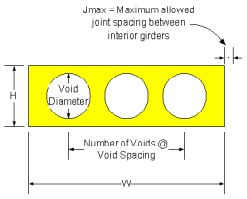
WSDOT U



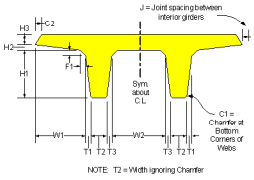
Box Beams (2 types)



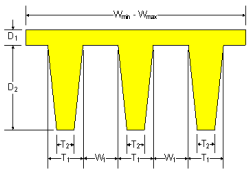
Voided Slab



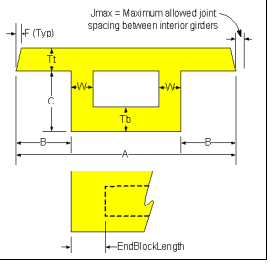
Double T (3 types)



Ribbed Girder



Decked Slab Beam



PGSuper Features:

Design Specifications:
- AASHTO LRFD 1998-2009
- Checks All Appropriate Specifications
- Highly Configurable
- User Input Stress Limits
- Computed Or User-Input Distribution Factors
- User-Input LRFD Load Modifiers
- Five Varieties Of Loss Calculations

LRFR Rating:
- AASHTO Section 6A of the AASHTO Manual for Bridge Evaluation, 1st Edition, 2008
- User-defined design, legal load, and permit rating vehicles
- Rates for Operating and Inventory Levels
- Routine Legal Live Loads
- Specialized Legal Hauling Vehicles
- Live Load Factors Can be Defined by Bridge Owner
- Routine and Special Permits
- Summary and Detailed Rating Reports

Automated Design:
- Harped and Straight Strand Placement
- Debonding Design
- Concrete Strength (Release And Final)
- Lifting And Hauling Points
- Required Slab Offset
- Stirrup Placement

Analysis:
- Simple Or Continuous Spans
- Integral Pier Connections
- Multiple Stages
- Stress Checks For All Stages/Limit States
- User-Input Time Parameters For Creep
- Moment Capacity From Strain Compatibility
- LRFD Shear Capacity
- Modulus Of Rupture For Cracking Moment
- Longitudinal Reinforcement For Shear
- Horizontal Interface Shear
- LRFD Optional Live Load Deflection
- Strand Slope Check
- Strand Hold Down Check
- Anchorage Zone Bursting Check
- Lifting In Casting Yard
- Hauling To Bridge Site
- Debonding Limits
- Many "Reality" Checks

Complex Bridge Geometry:
- Modeling Of Full Superstructure
- Splayed and non-uniform girders
- Multi-Segment Horiz. & Vert. Curves
- Horizontal Spiral Curves
- Crown Point Offset
- Variable Width Slab
- Screed Camber, Required Slab Offset
- Skewed Piers
- All Common Deck And Overlay Types
- User-Defined Traffic Barriers

Girder Sections And Reinforcement
- 13 Parametric Girder Sections
- All Popular Prestressing Strand Types
- Harped And Debonded Strands
- Temporary Strands For Lifting And Hauling
- Mild Steel Rebar Used In Analysis
- Deck Reinforcement For Negative Moment
- Shear Reinforcement-Stirrup Layouts

Reporting
- Don't Guess What the Program Did—See It!
- High Level Of Details For All Calculations
- HTML Output, Highly Graphical
- Capacity And Demand Graphs
- Navigable Table of Contents & Text Searching

Loading:
- HL-93 and User-Defined Live Load
- All Dead Loads Automatically Computed
- User-Defined:
  - Point Loads
  - Distributed Loads
  - End Moments
  - Load Combination Factors

System:
- Windows NT/2000/XP/Vista/W7
- No Copy Protection

Units
- Hot Switchable: US Or SI

And Much More….

BridgeSight Inc. Can Help You Get the Most out of PGSuper!

For reasonable fees, our engineers can provide:
- Training
- Custom Software Configuration
- Custom Installation
- Custom Development Services

About BridgeSight Inc.

BridgeSight Software™

Since 1996, we have teamed with WSDOT, TxDOT and other agencies to support the development and deployment of bridge engineering software. We have been involved with PGSuper since its inception.

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