

Project Belford - Happy Canyon Bridge Client _____
Subject Virtis Inputs Made By SCR Date 01/24/17

Concrete Properties

Es = 29000
Ec (8ksi) = 5153.6
n = 5.63

UNIFORM MEMBER LOADS

$\gamma_{conc} = 150 \text{ lb/ft}^3$

DC1 - Haunch: Span 1&2

| | | | |
|--------------|-------------------------------------|------------------|----------------|
| BT72 girders | Haunch + Deck = | 13.75 in | |
| | Deck Thickness = | 8.00 in | |
| | Maximum Haunch = | 5.75 in | |
| | Minimum Haunch = | 2.99 in | |
| | Average Haunch = | 3.45 in | |
| | Haunch used in Section Properties = | 1.43 in | |
| | DL Haunch = | 2.02 in | |
| | Top Flange Width = | 3.58 ft | |
| | DC1 Haunch = | 0.090 klf | G1 - G6 |

DC2 & 3 - Utility and SIP Form Load

(SIP or Utility Load) Dead Load = 5 psf

| | | |
|-------------------------------|------------------|-----------|
| Ave. Girder Overhang Width = | 5.40 ft | |
| Ave. Girder Tributary Width = | 4.14 ft | |
| Utility Load = | 0.048 klf | G1 |

| | | |
|-------------------------------|------------------|-----------|
| Ave. Girder Tributary Width = | 8.28 ft | |
| Utility Load = | 0.041 klf | G2 |

| | | |
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| Ave. Girder Tributary Width = | 8.29 ft | |
| Utility Load = | 0.041 klf | G3 |

| | | |
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| Ave. Girder Tributary Width = | 8.30 ft | |
| Utility Load = | 0.041 klf | G4 |

| | | |
|-------------------------------|------------------|-----------|
| Ave. Girder Tributary Width = | 8.27 ft | |
| Utility Load = | 0.041 klf | G5 |

| | | |
|-------------------------------|------------------|-----------|
| Ave. Girder Overhang Width = | 3.98 ft | |
| Ave. Girder Tributary Width = | 4.55 ft | |
| Utility Load = | 0.043 klf | G6 |

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DC4 - Thickened Deck at Overhangs:

Top Flange Width = 43 in
Girder Overhang = 5.40 ft

Width of Thickened Deck = 3.61 ft
Ave. Depth of Thickened Deck = 2.60 in
DC1 Deck = 0.117 klf

G1

Top Flange Width = 43 in
Girder Overhang = 4.55 ft

Width of Thickened Deck = 2.76 ft
Ave. Depth of Thickened Deck = 2.60 in
DC1 Deck = 0.090 klf

G6