

APPENDIX E
STRESS DISTRIBUTION IN BRIDGE GIRDERS

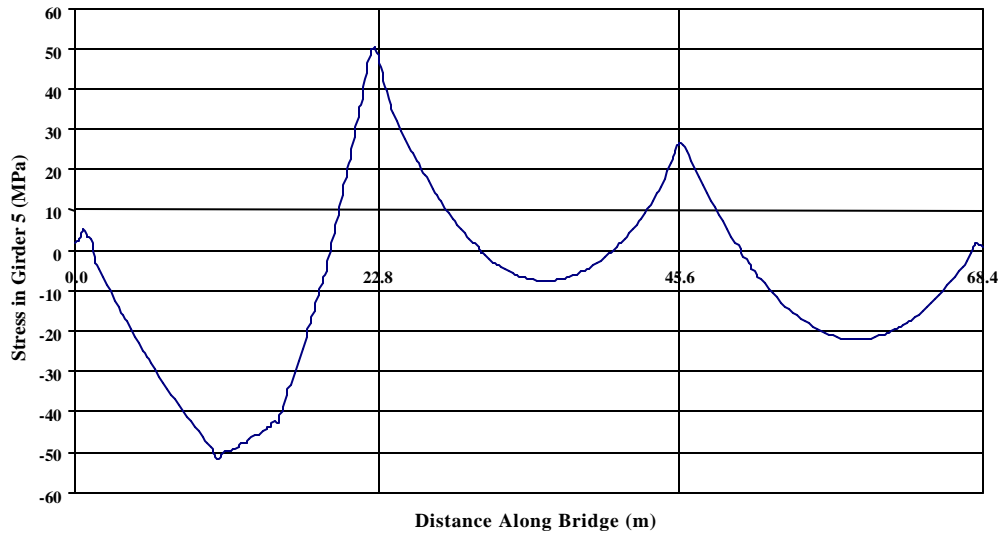


Figure 73

**Type II Girder - 10° Bridge Skew – Girder spacing 1.52m – Span Length 22.8m
- 30° Diaphragm Skew – Strength I Maximum Loading Condition**

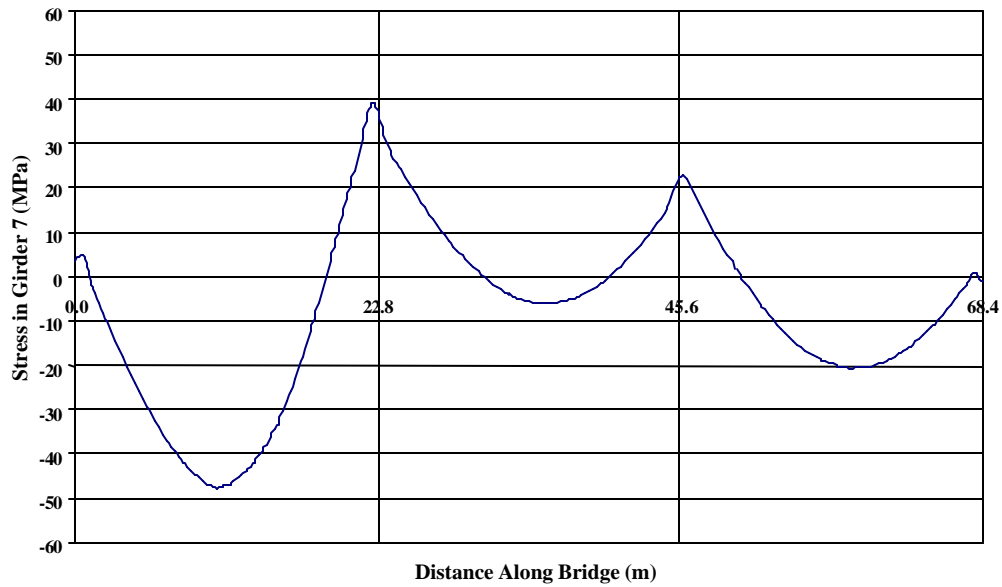


Figure 74

**Type II Girder - 10° Bridge Skew – Girder spacing 1.52m – Span Length 22.8m
- 30° Diaphragm Skew – Strength I Maximum Loading Condition**

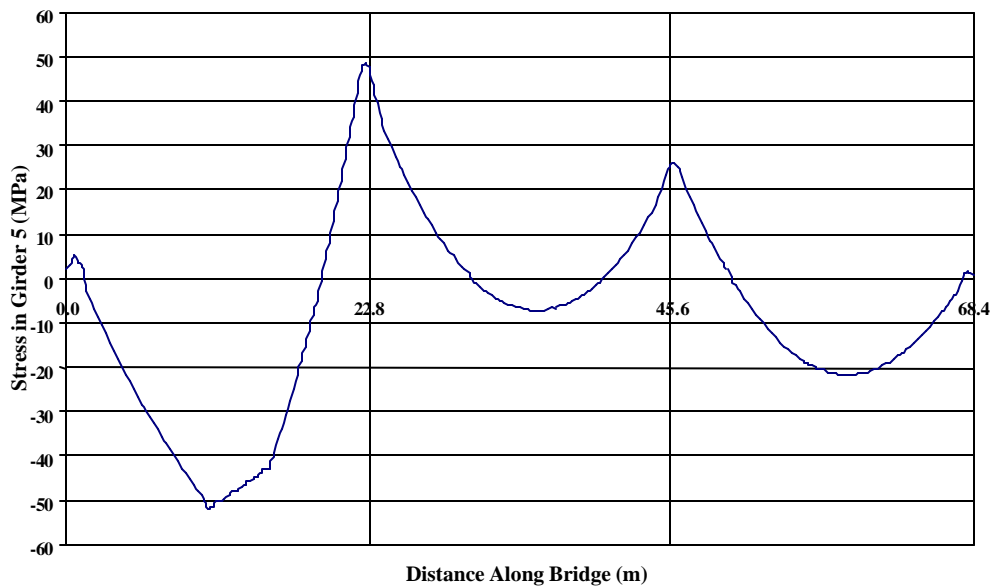


Figure 75

**Type II Girder - 10° Bridge Skew – Girder spacing 1.52m – Span Length 22.8m
- 65° Diaphragm Skew – Strength I Maximum Loading Condition**

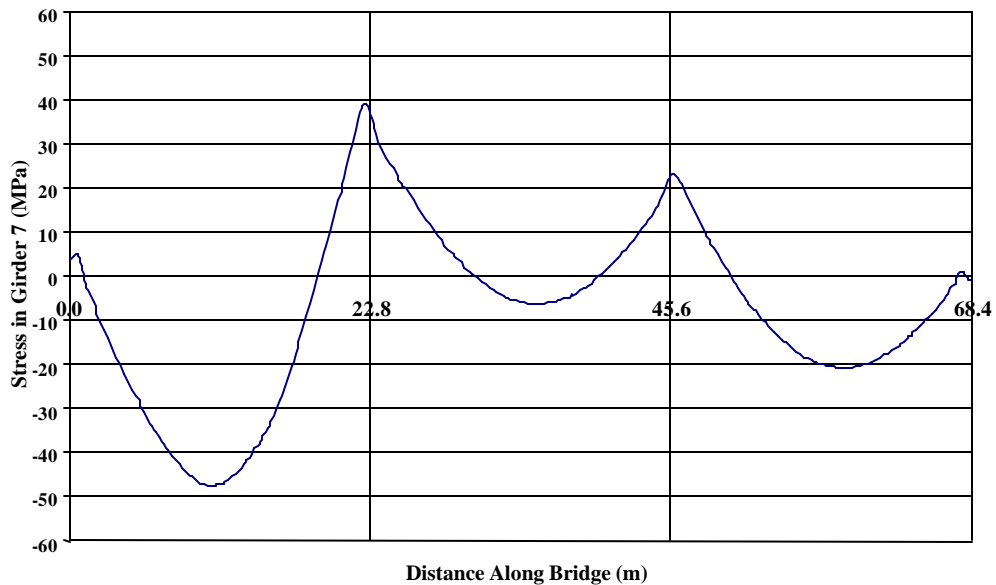


Figure 76

**Type II Girder - 10° Bridge Skew – Girder spacing 1.52m – Span Length 22.8m
- 65° Diaphragm Skew – Strength I Maximum Loading Condition**

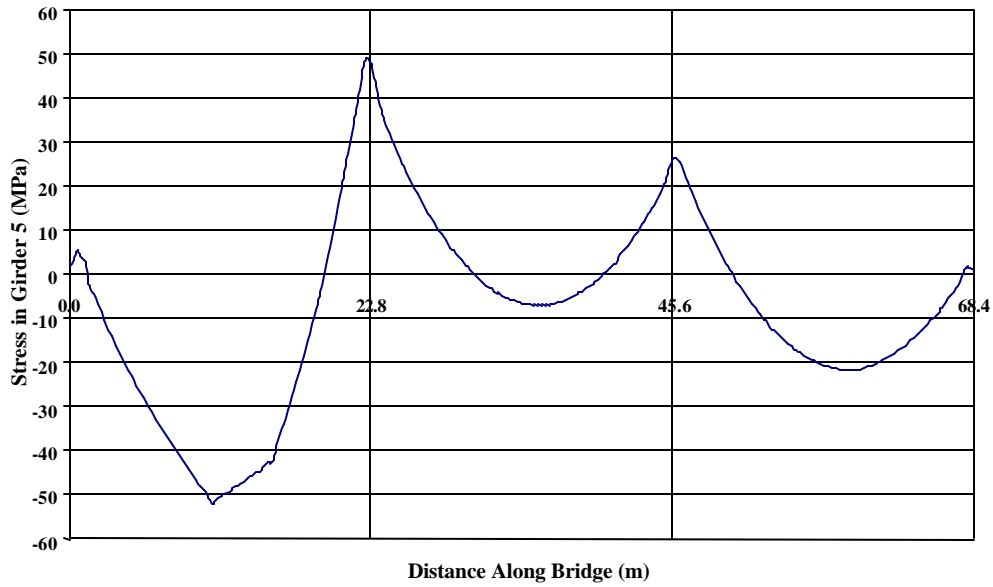


Figure 77

Type II Girder - 10° Bridge Skew – Girder spacing 1.52 – Span Length 22.8m - No Diaphragm – Strength I Maximum Loading Condition

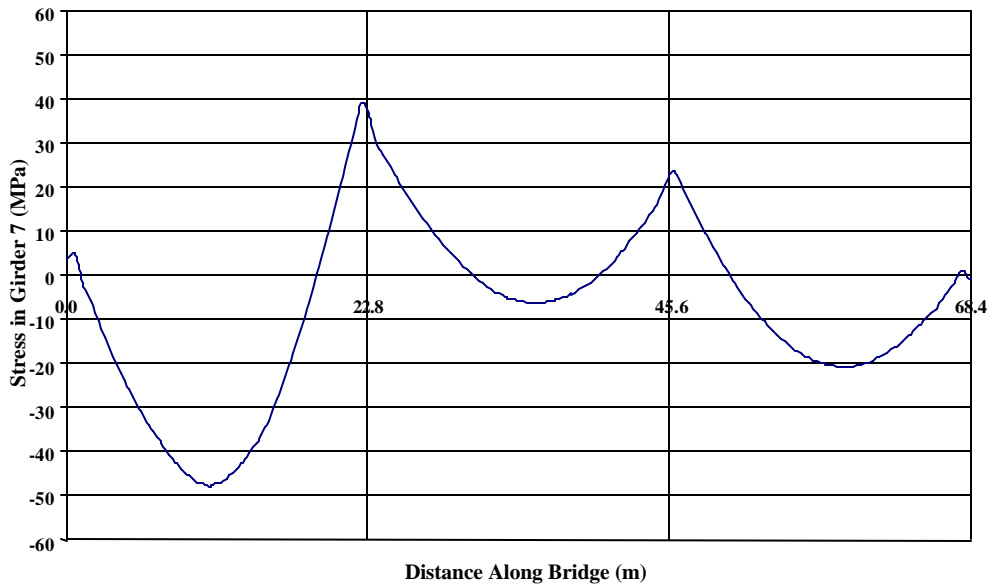


Figure 78

Type II Girder - 10° Bridge Skew – Girder spacing 1.52 – Span Length 22.8m - No Diaphragm – Strength I Maximum Loading Condition

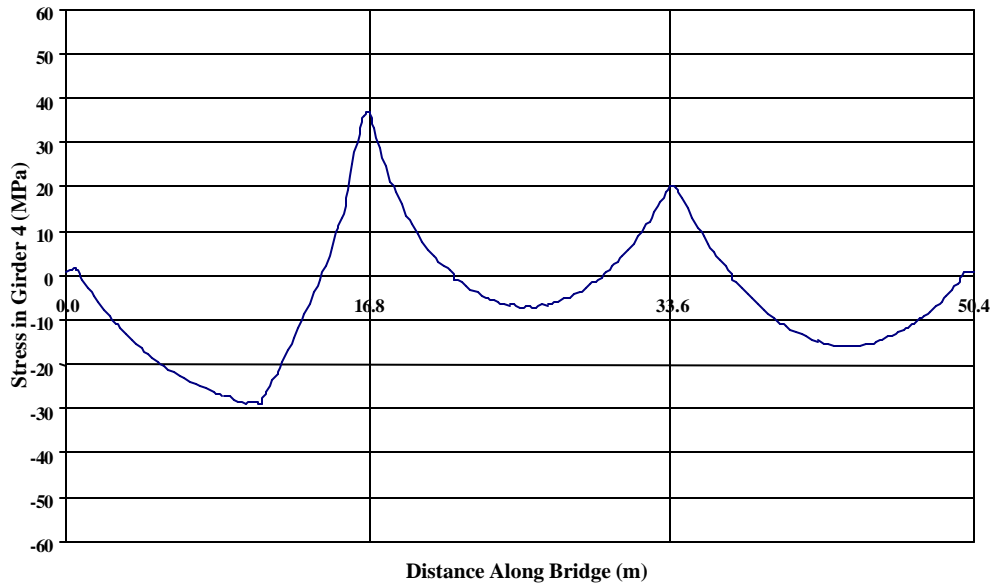


Figure 79

**Type II Girder - 10° Bridge Skew – Girder spacing 2.75m – Span Length 16.8m
- 30° Diaphragm Skew – Strength I Maximum Loading Condition**

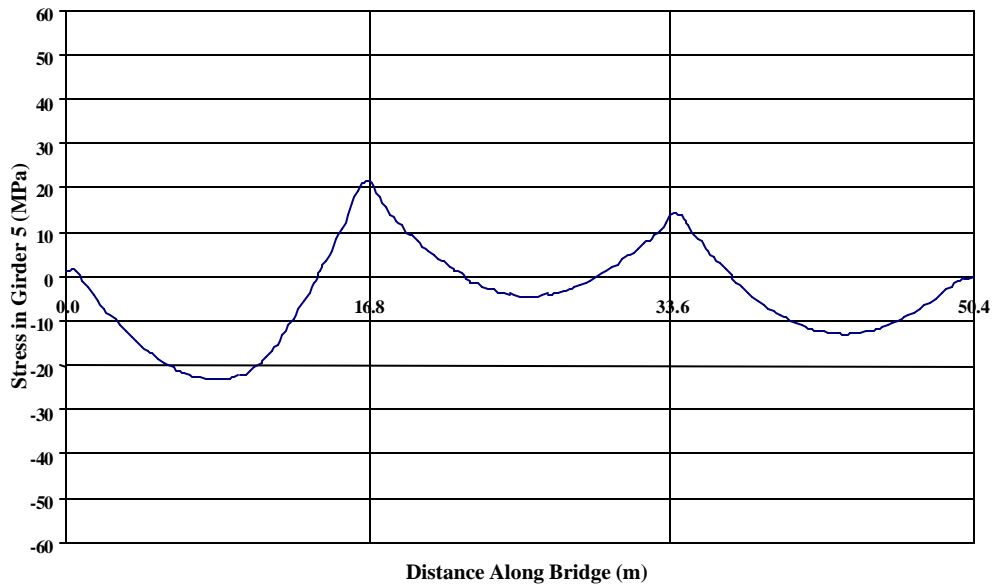


Figure 80

**Type II Girder - 10° Bridge Skew – Girder spacing 2.75m – Span Length 16.8m
- 30° Diaphragm Skew – Strength I Maximum Loading Condition**

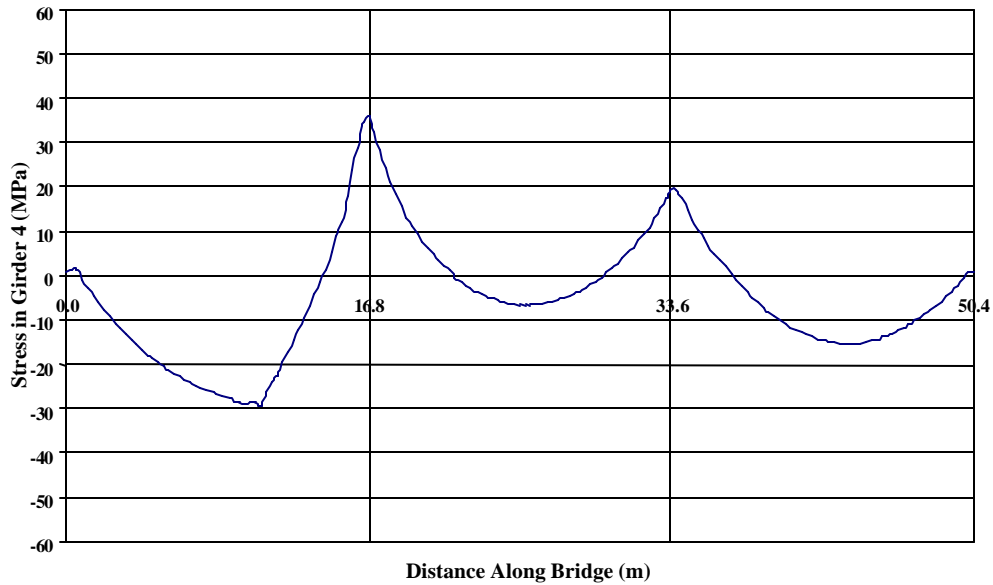


Figure 81

**Type II Girder - 10° Bridge Skew – Girder spacing 2.75m – Span Length 16.8m
- 65° Diaphragm Skew – Strength I Maximum Loading Condition**

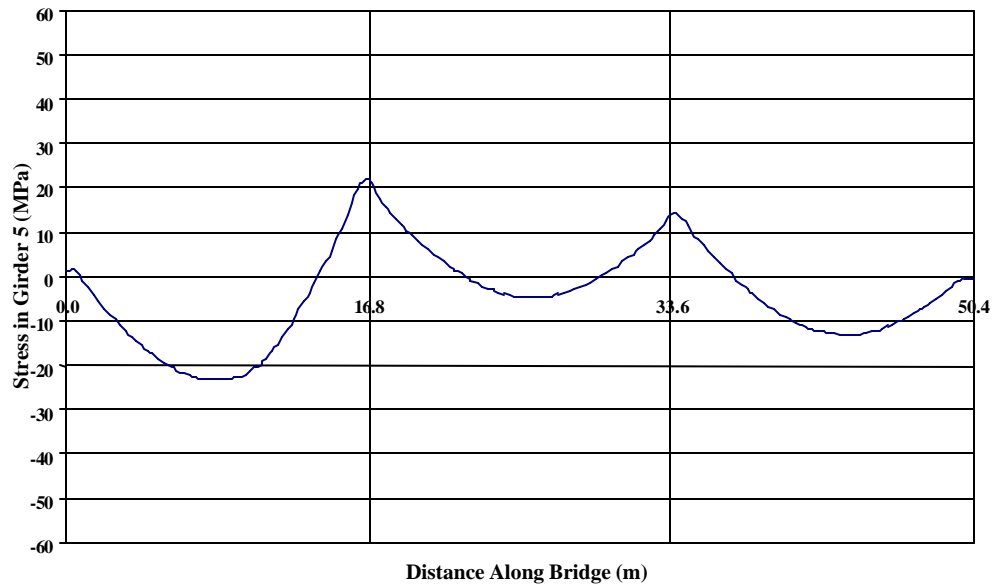


Figure 82

**Type II Girder - 10° Bridge Skew – Girder spacing 2.75m – Span Length 16.8m
- 65° Diaphragm Skew – Strength I Maximum Loading Condition**

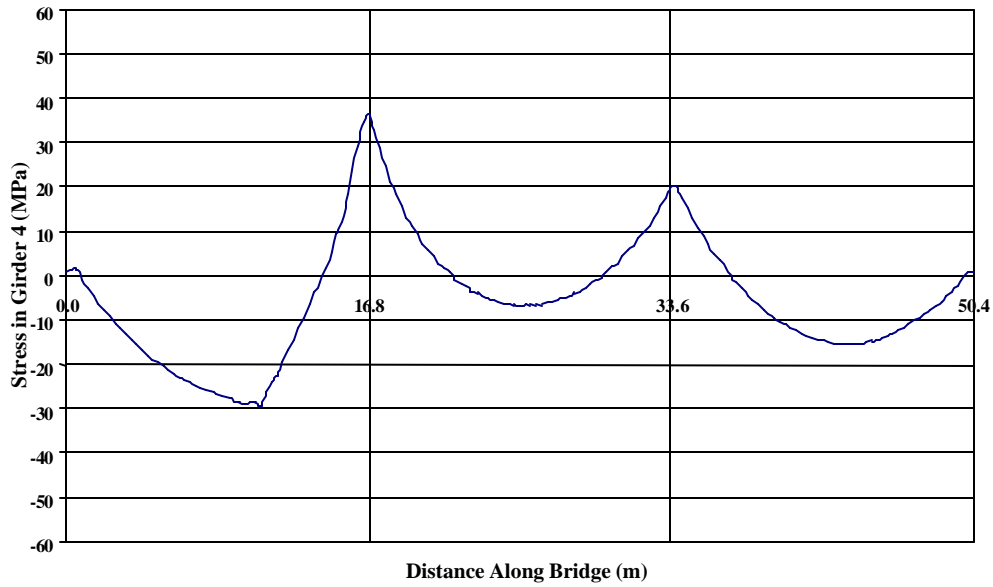


Figure 83

Type II Girder - 10° Bridge Skew – Girder spacing 2.75 – Span Length 16.8m - No Diaphragm – Strength I Maximum Loading Condition

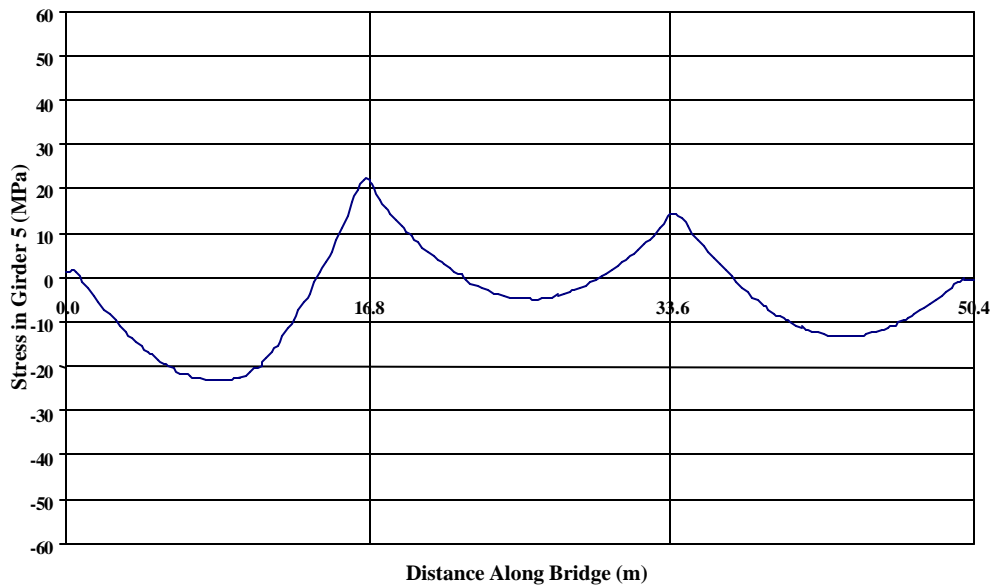


Figure 84

Type II Girder - 10° Bridge Skew – Girder spacing 2.75 – Span Length 16.8m - No Diaphragm – Strength I Maximum Loading Condition

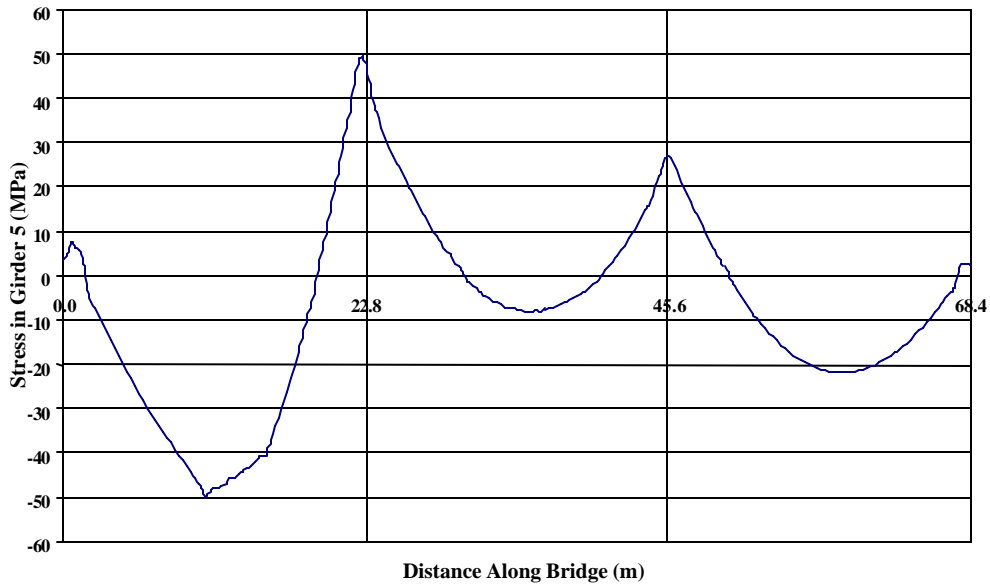


Figure 85

**Type II Girder - 20° Bridge Skew – Girder spacing 1.52m – Span Length 22.8m
- 30° Diaphragm Skew – Strength I Maximum Loading Condition**

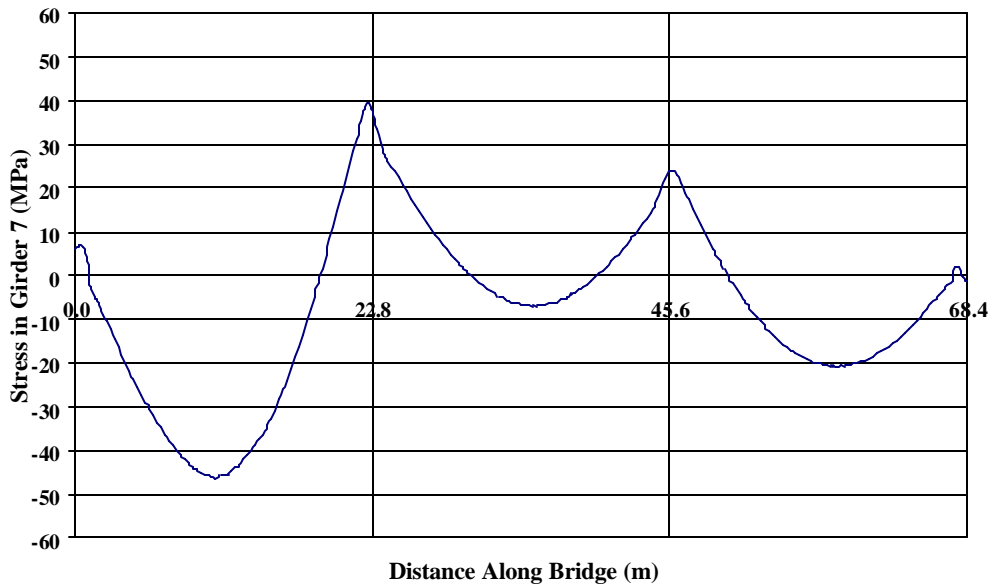


Figure 86

**Type II Girder - 20° Bridge Skew – Girder spacing 1.52m – Span Length 22.8m
- 30° Diaphragm Skew – Strength I Maximum Loading Condition**

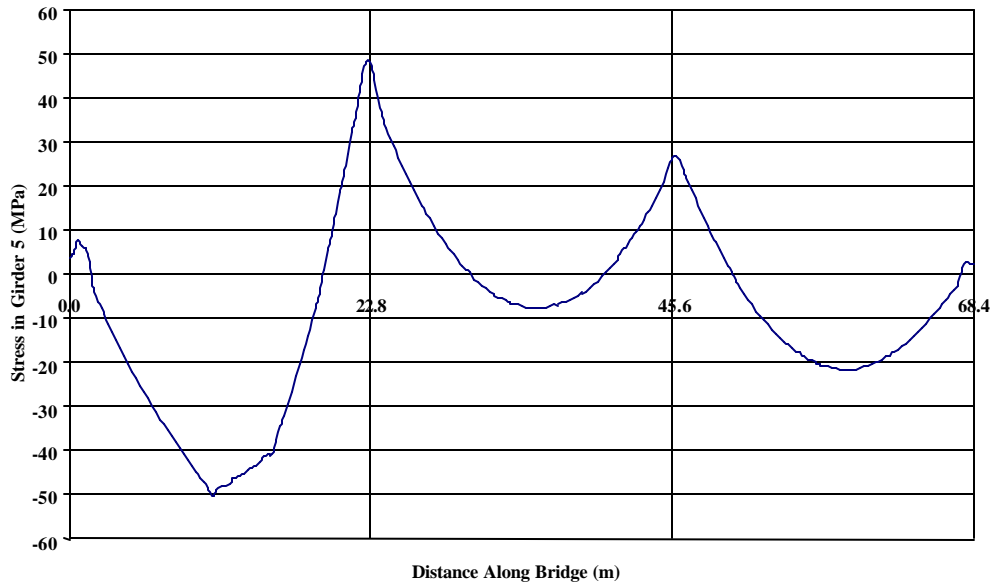


Figure 87

**Type II Girder - 20° Bridge Skew – Girder spacing 1.52m – Span Length 22.8m
- 65° Diaphragm Skew – Strength I Maximum Loading Condition**

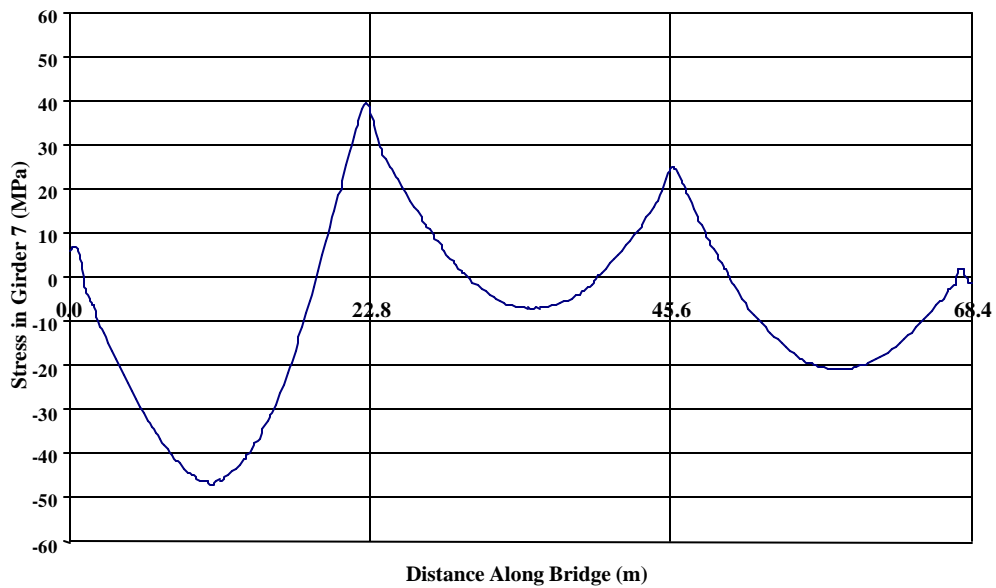


Figure 88

**Type II Girder - 20° Bridge Skew – Girder spacing 1.52m – Span Length 22.8m
- 65° Diaphragm Skew – Strength I Maximum Loading Condition**

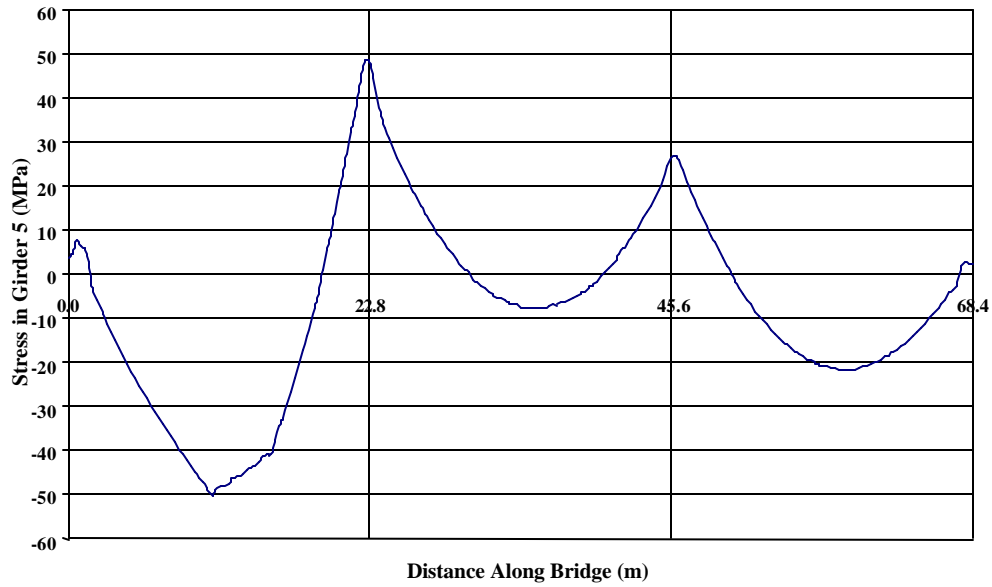


Figure 89

Type II Girder - 20° Bridge Skew – Girder spacing 1.52 – Span Length 22.8m - No Diaphragm – Strength I Maximum Loading Condition

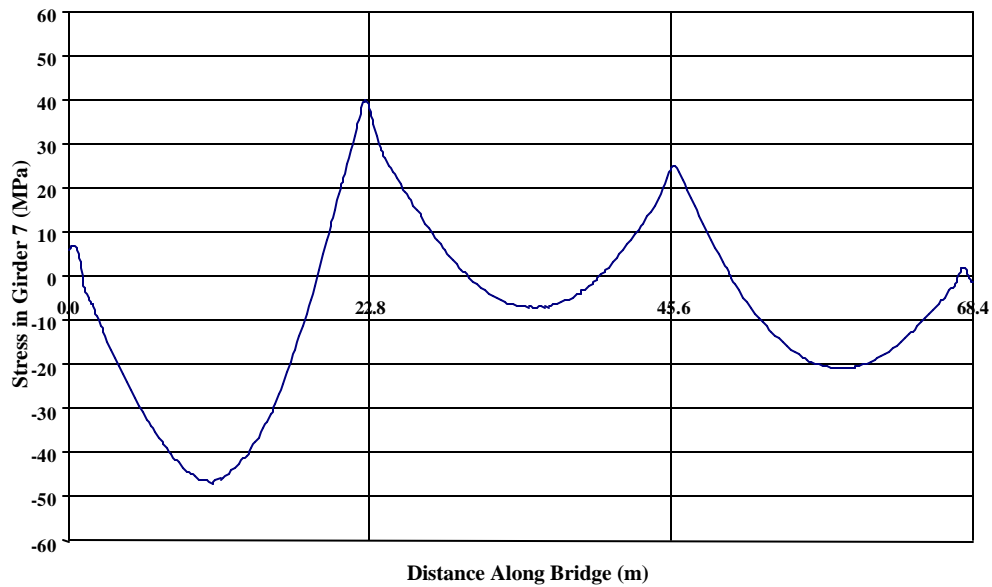


Figure 90

Type II Girder - 20° Bridge Skew – Girder spacing 1.52 – Span Length 22.8m - No Diaphragm – Strength I Maximum Loading Condition

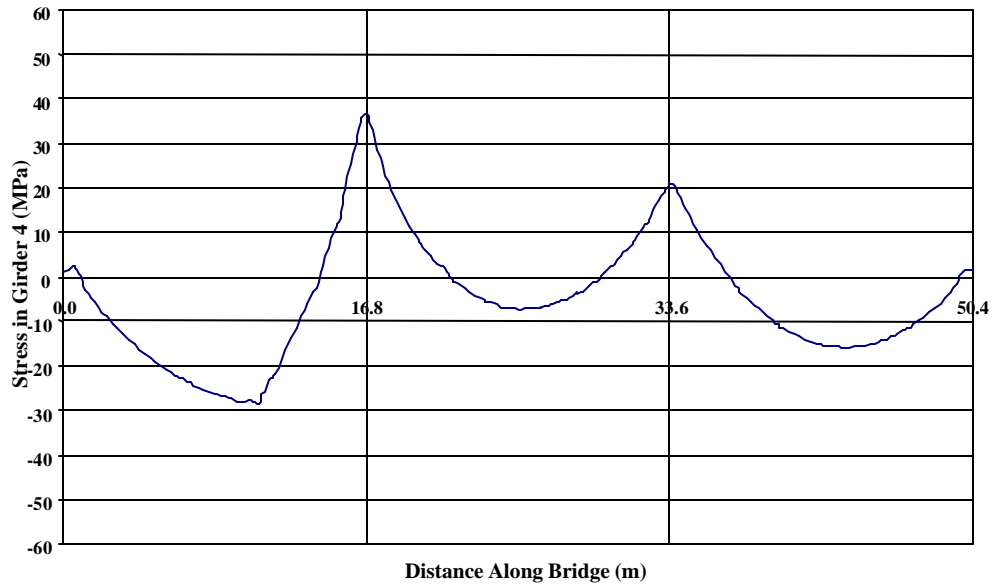


Figure 91

**Type II Girder - 20° Bridge Skew – Girder spacing 2.75m – Span Length 16.8m
- 30° Diaphragm Skew – Strength I Maximum Loading Condition**

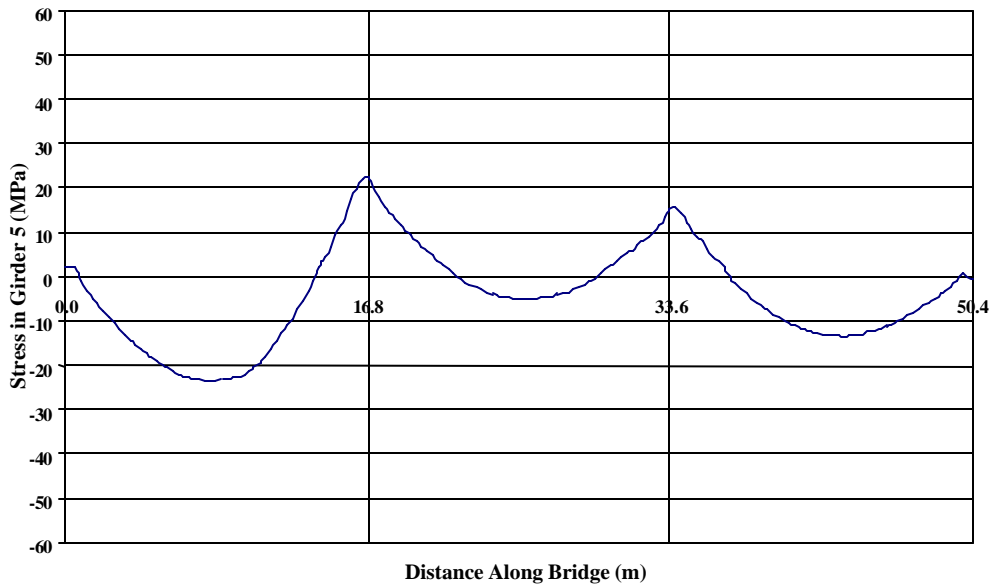


Figure 92

**Type II Girder - 20° Bridge Skew – Girder spacing 2.75m – Span Length 16.8m
- 30° Diaphragm Skew – Strength I Maximum Loading Condition**

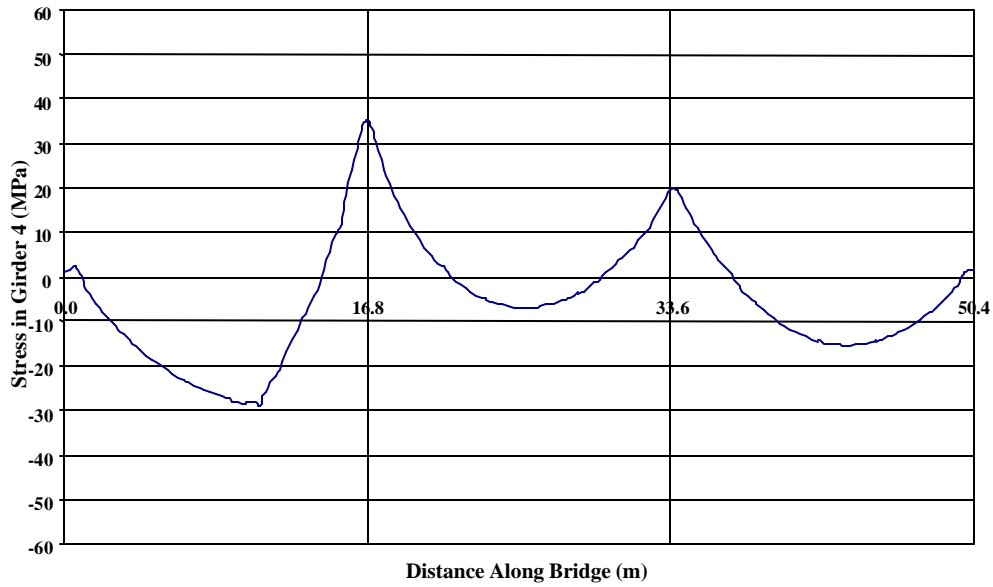


Figure 93

**Type II Girder - 20° Bridge Skew – Girder spacing 2.75m – Span Length 16.8m
- 65° Diaphragm Skew – Strength I Maximum Loading Condition**

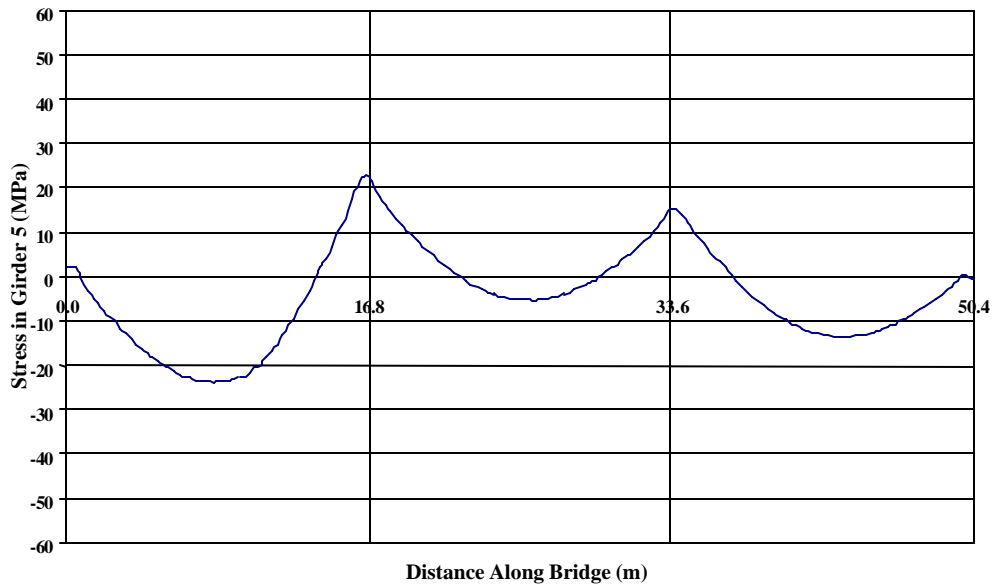


Figure 94

**Type II Girder - 20° Bridge Skew – Girder spacing 2.75m – Span Length 16.8m
- 65° Diaphragm Skew – Strength I Maximum Loading Condition**

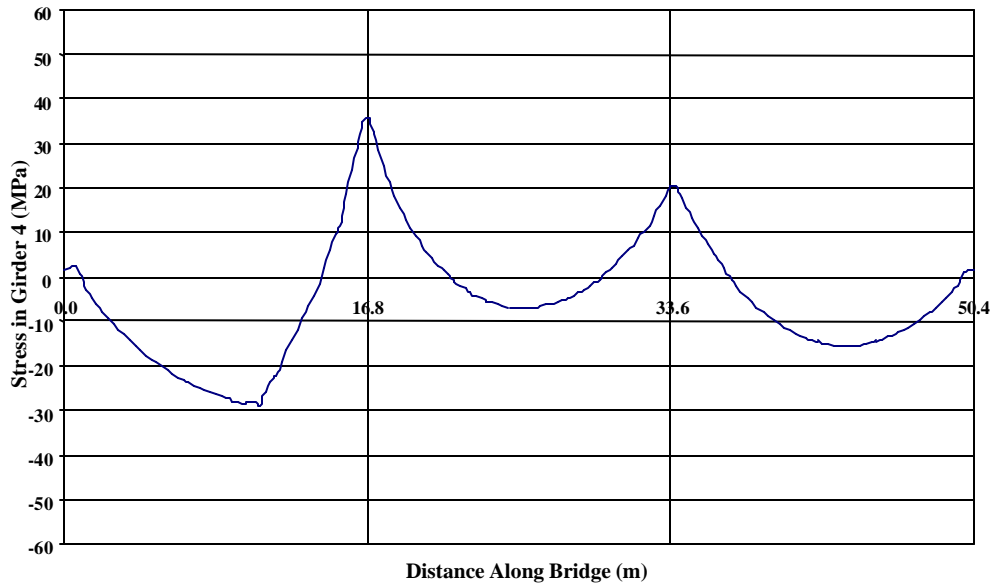


Figure 95

**Type II Girder - 20° Bridge Skew – Girder spacing 2.75m – Span Length 16.8m
- No Diaphragm – Strength I Maximum Loading Condition**

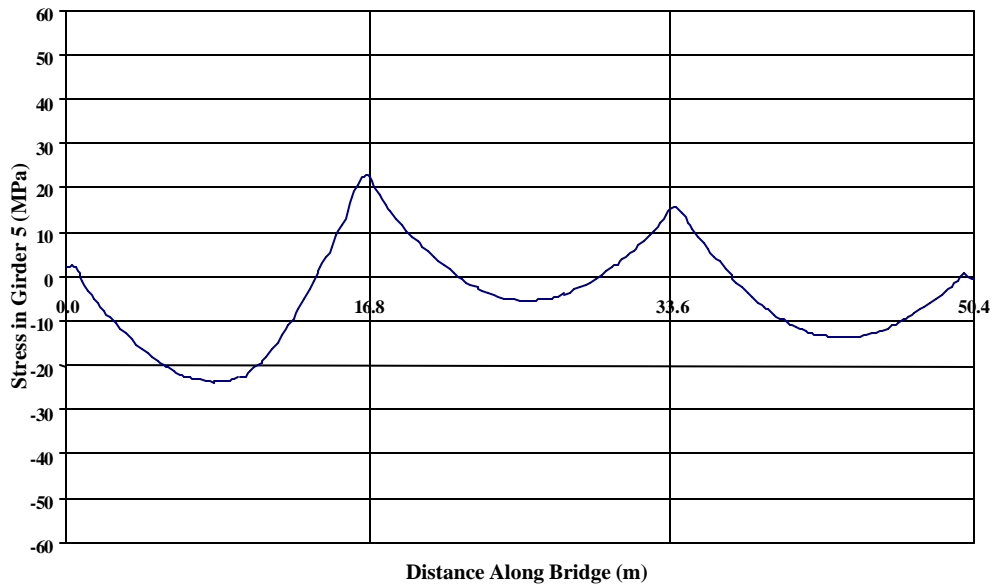


Figure 96

**Type II Girder - 20° Bridge Skew – Girder spacing 2.75m – Span Length 16.8m
- No Diaphragm – Strength I Maximum Loading Condition**

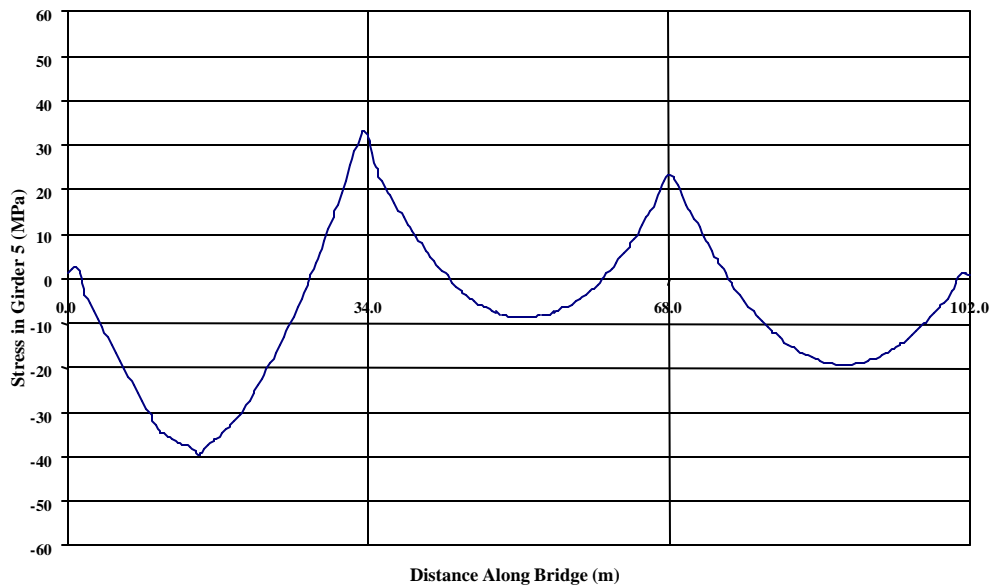


Figure 97

**Type IV Girder - 10° Bridge Skew – Girder spacing 1.52m – Span Length 34.0m
- 30° Diaphragm Skew – Strength I Maximum Loading Condition**

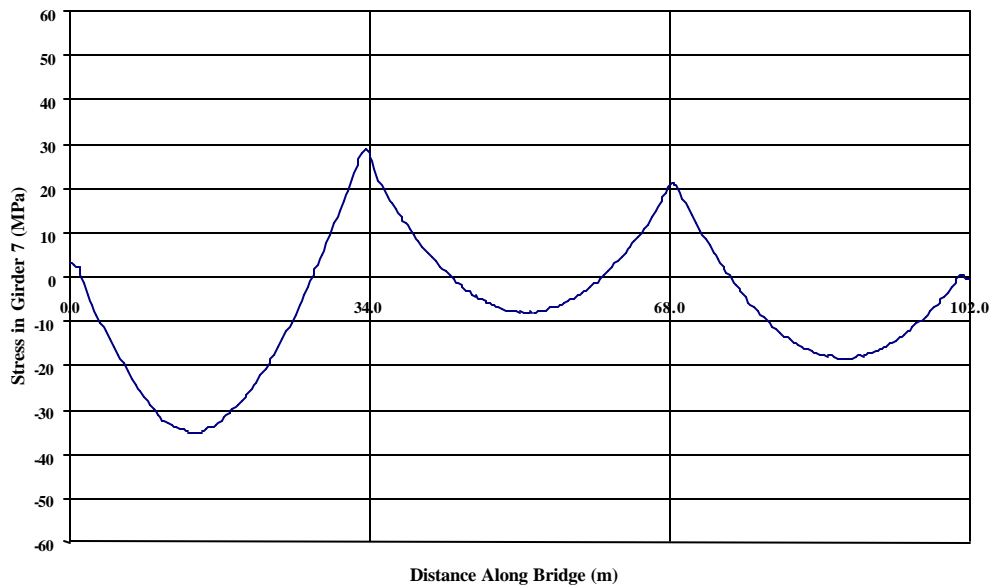


Figure 98

**Type IV Girder - 10° Bridge Skew – Girder spacing 1.52m – Span Length 34.0m
- 30° Diaphragm Skew – Strength I Maximum Loading Condition**

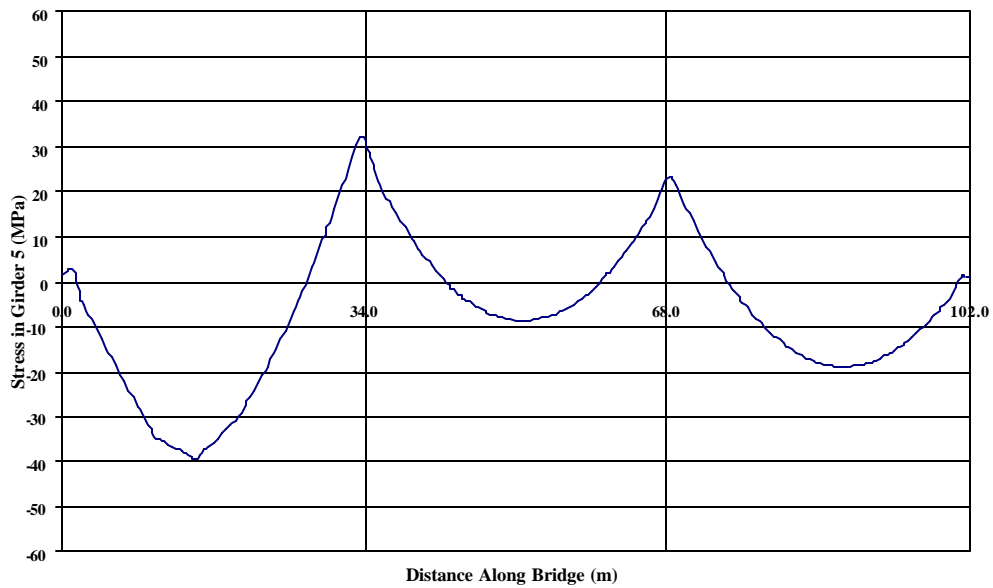


Figure 99

**Type IV Girder - 10° Bridge Skew – Girder spacing 1.52m – Span Length 34.0m
 - 65° Diaphragm Skew – Strength I Maximum Loading Condition**

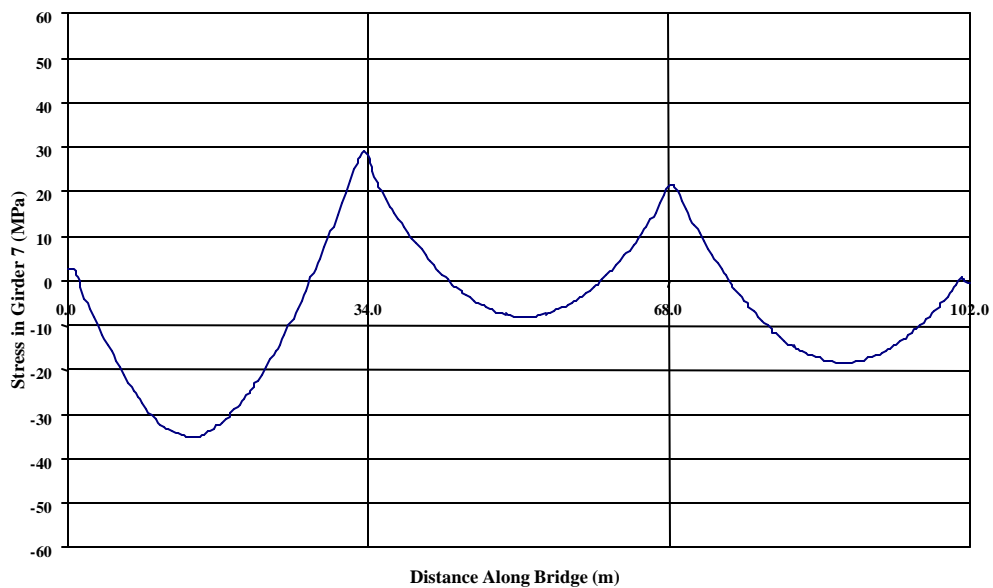


Figure 100

**Type IV Girder - 10° Bridge Skew – Girder spacing 1.52m – Span Length 34.0m
 - 65° Diaphragm Skew – Strength I Maximum Loading Condition**

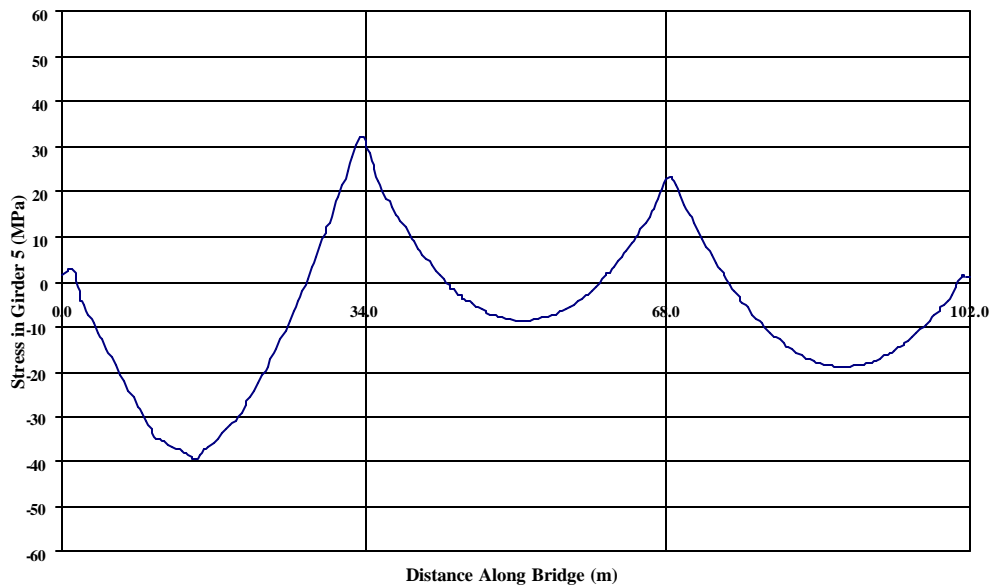


Figure 101

**Type IV Girder - 10° Bridge Skew – Girder spacing 1.52m – Span Length 34.0m
- No Diaphragm – Strength I Maximum Loading Condition**

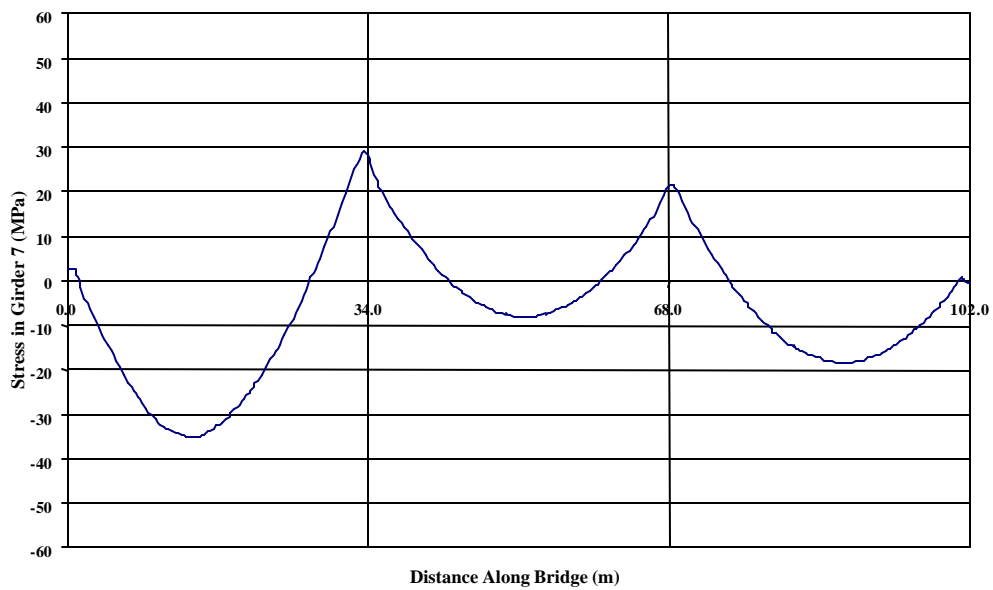


Figure 102

**Type IV Girder - 10° Bridge Skew – Girder spacing 1.52m – Span Length 34.0m
- No Diaphragm – Strength I Maximum Loading Condition**

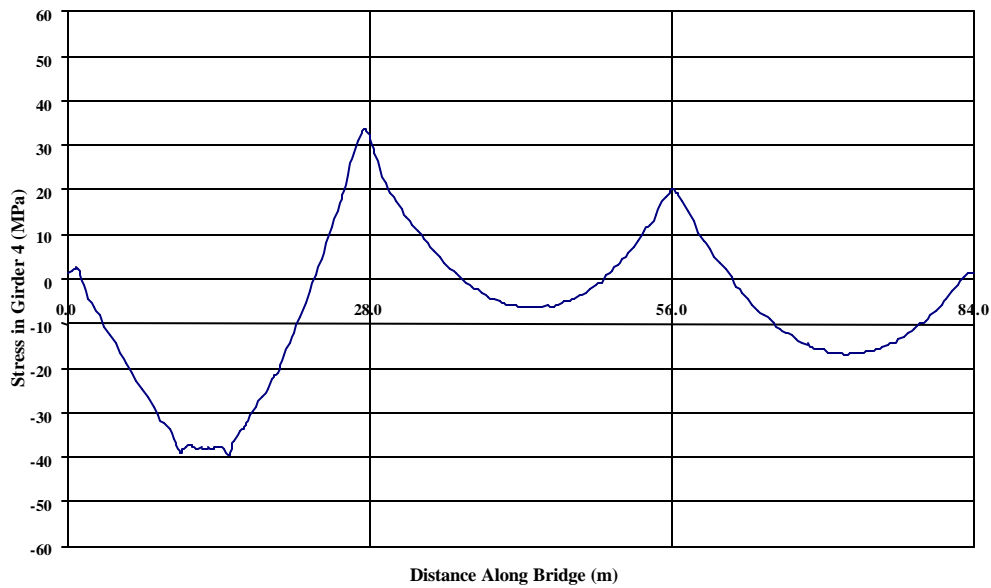


Figure 103

**Type IV Girder - 10° Bridge Skew – Girder spacing 2.75m – Span Length 28.0m
- 30° Diaphragm Skew – Strength I Maximum Loading Condition**

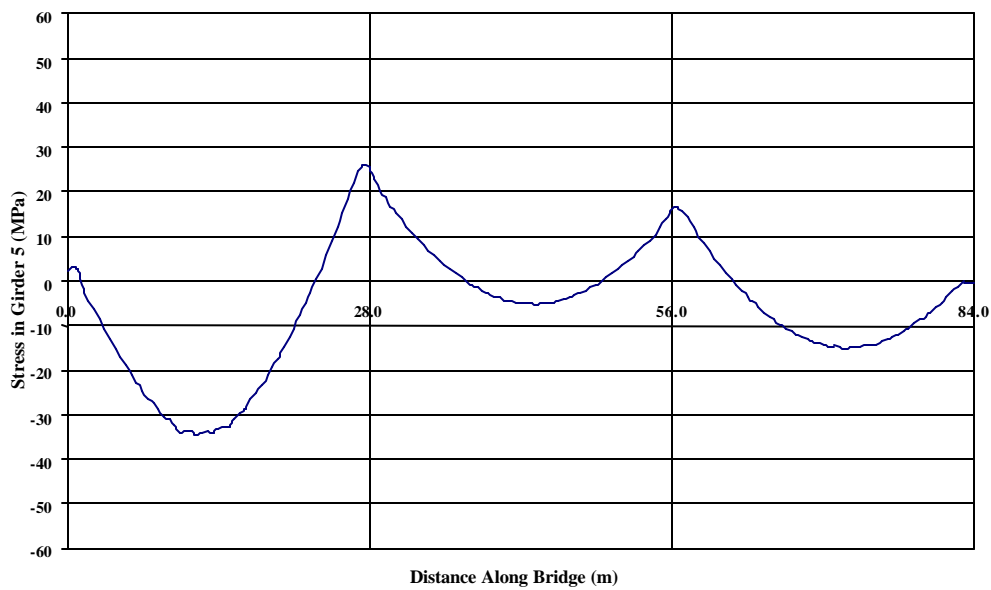


Figure 104

**Type IV Girder - 10° Bridge Skew – Girder spacing 2.75m – Span Length 28.0m
- 30° Diaphragm Skew – Strength I Maximum Loading Condition**

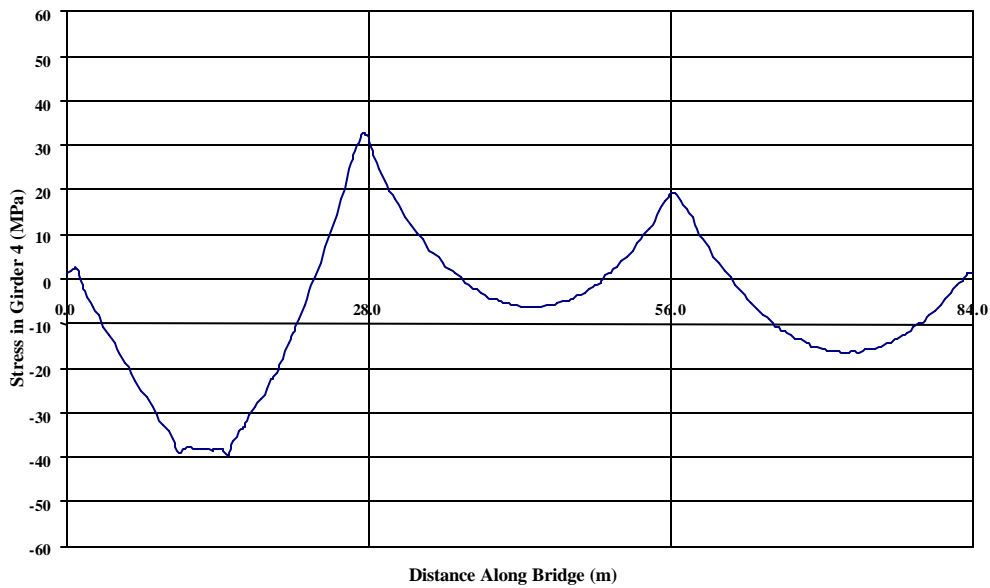


Figure 105

**Type IV Girder - 10° Bridge Skew – Girder spacing 2.75m – Span Length 28.0m
- 65° Diaphragm Skew – Strength I Maximum Loading Condition**

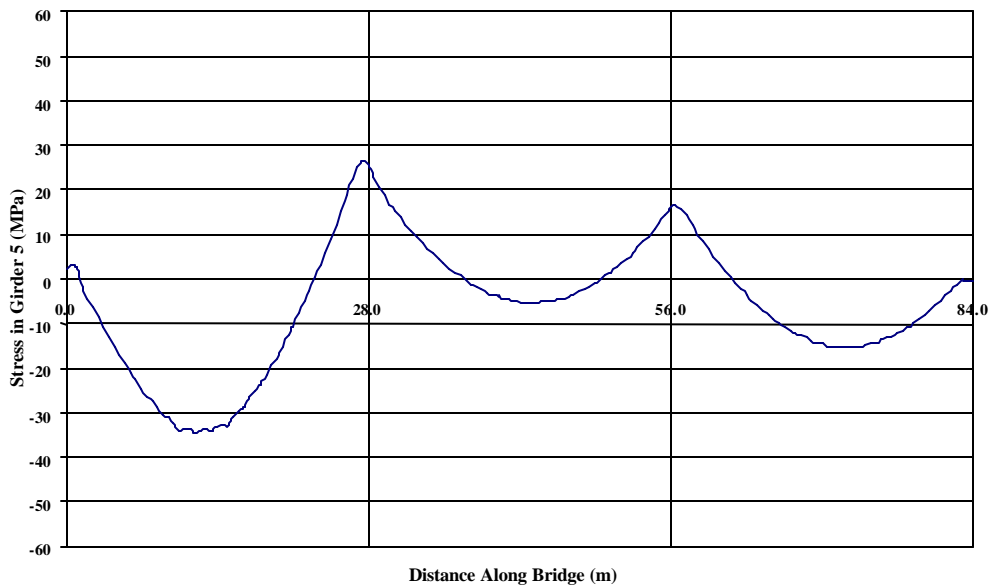


Figure 106

**Type IV Girder - 10° Bridge Skew – Girder spacing 2.75m – Span Length 28.0m
- 65° Diaphragm Skew – Strength I Maximum Loading Condition**

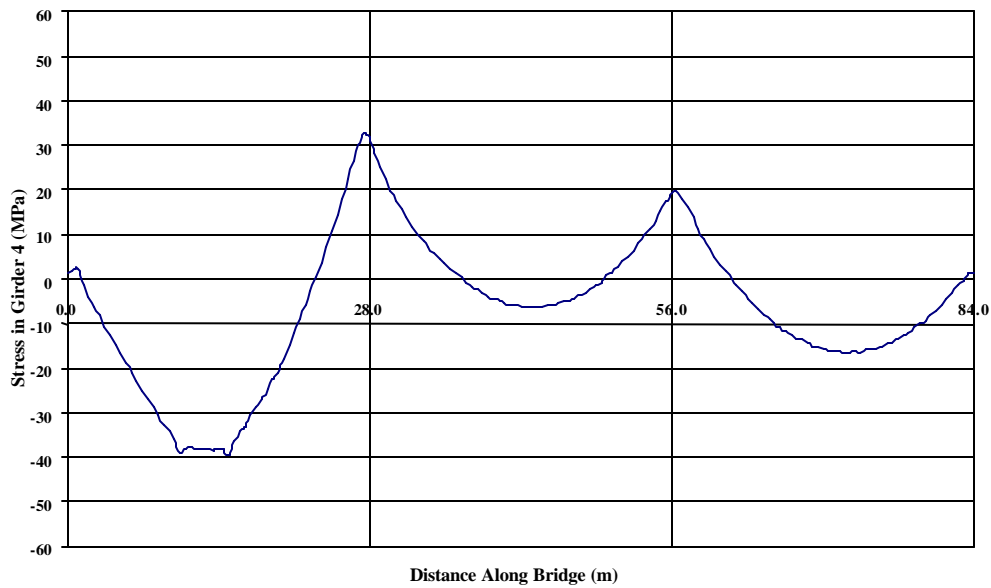


Figure 107

**Type IV Girder - 10° Bridge Skew – Girder spacing 2.75m – Span Length 28.0m
- No Diaphragm – Strength I Maximum Loading Condition**

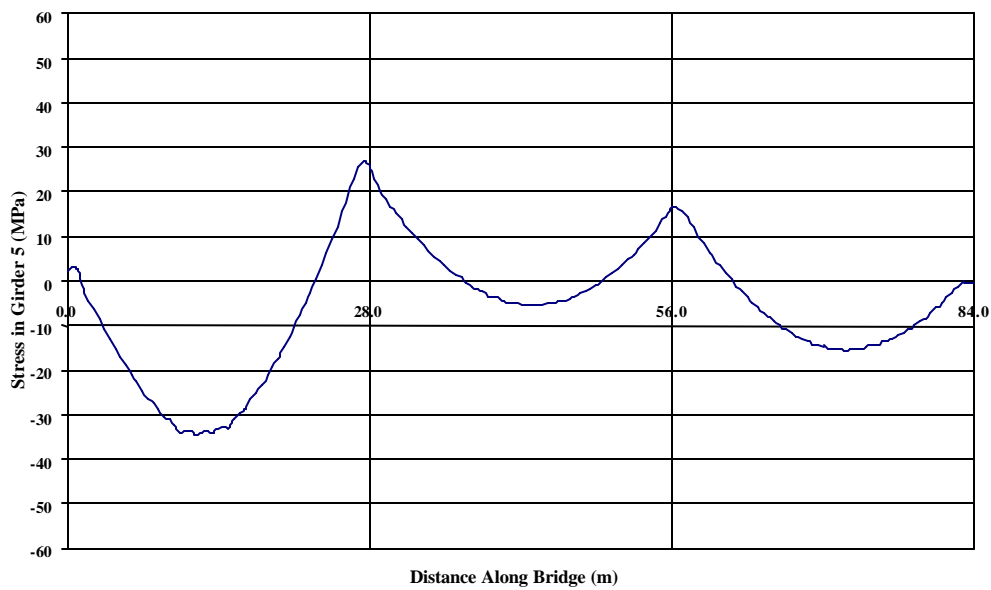


Figure 108

**Type IV Girder - 10° Bridge Skew – Girder spacing 2.75m – Span Length 28.0m
- No Diaphragm – Strength I Maximum Loading Condition**

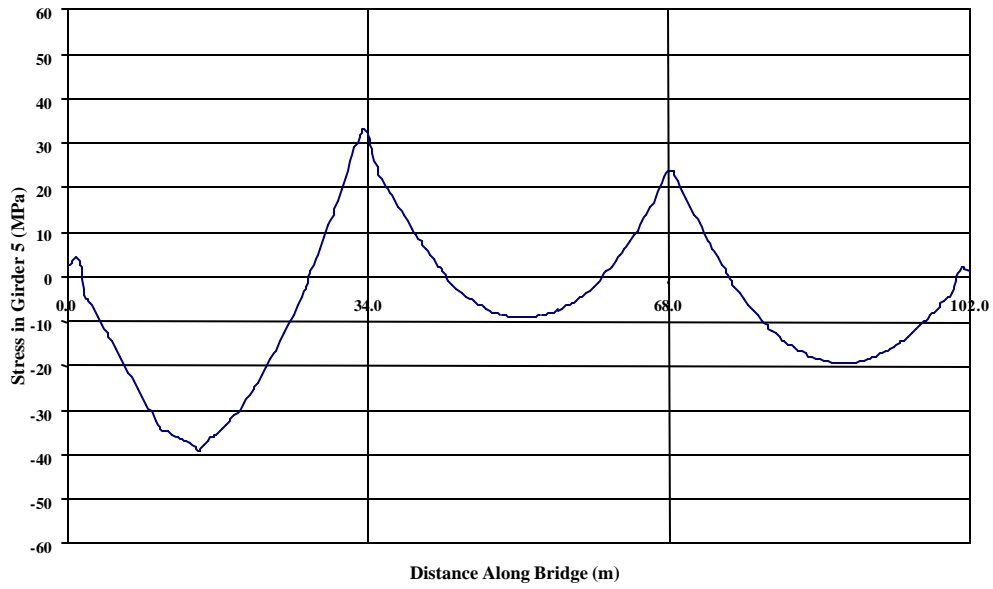


Figure 109

**Type IV Girder - 20° Bridge Skew – Girder spacing 1.52m – Span Length 34.0m
- 30° Diaphragm Skew – Strength I Maximum Loading Condition**

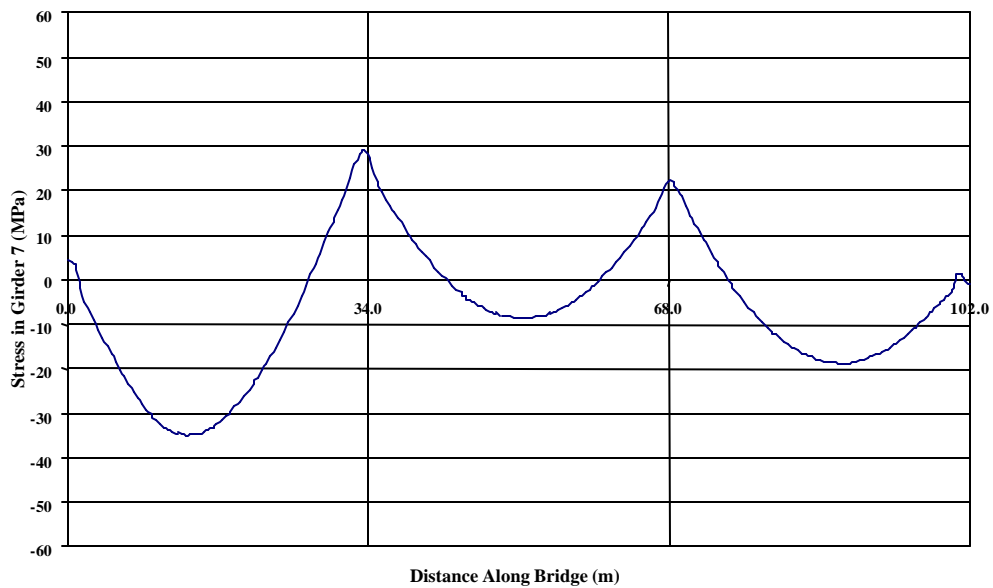


Figure 110

**Type IV Girder - 20° Bridge Skew – Girder spacing 1.52m – Span Length 34.0m
- 30° Diaphragm Skew – Strength I Maximum Loading Condition**

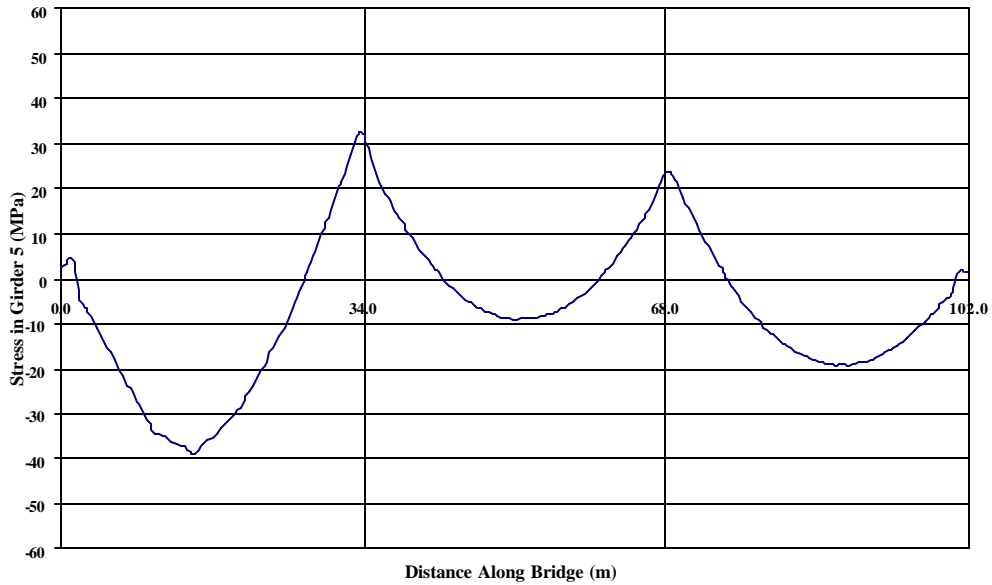


Figure 111

**Type IV Girder - 20° Bridge Skew – Girder spacing 1.52m – Span Length 34.0m
- 65° Diaphragm Skew – Strength I Maximum Loading Condition**

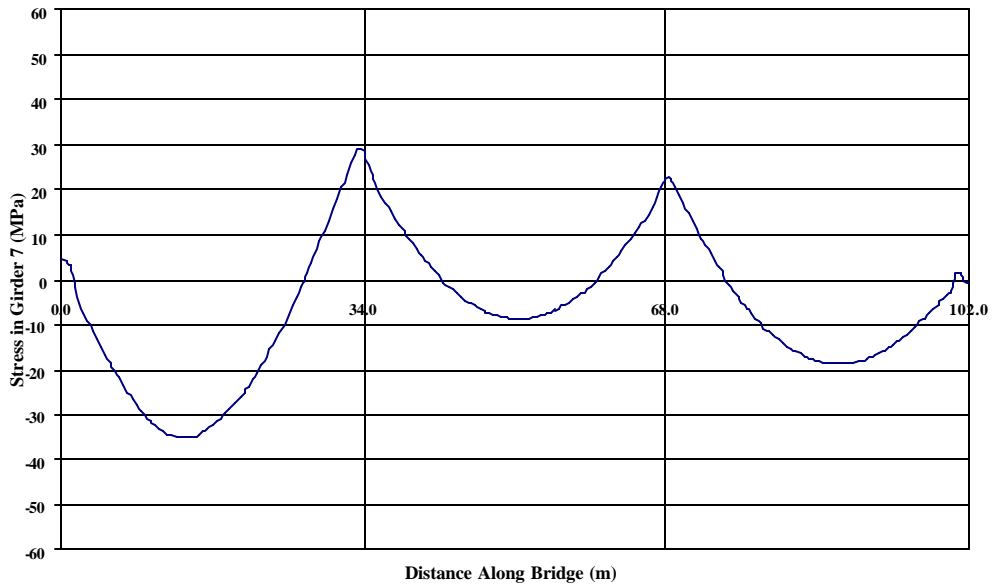


Figure 112

**Type IV Girder - 20° Bridge Skew – Girder spacing 1.52m – Span Length 34.0m
- 65° Diaphragm Skew – Strength I Maximum Loading Condition**

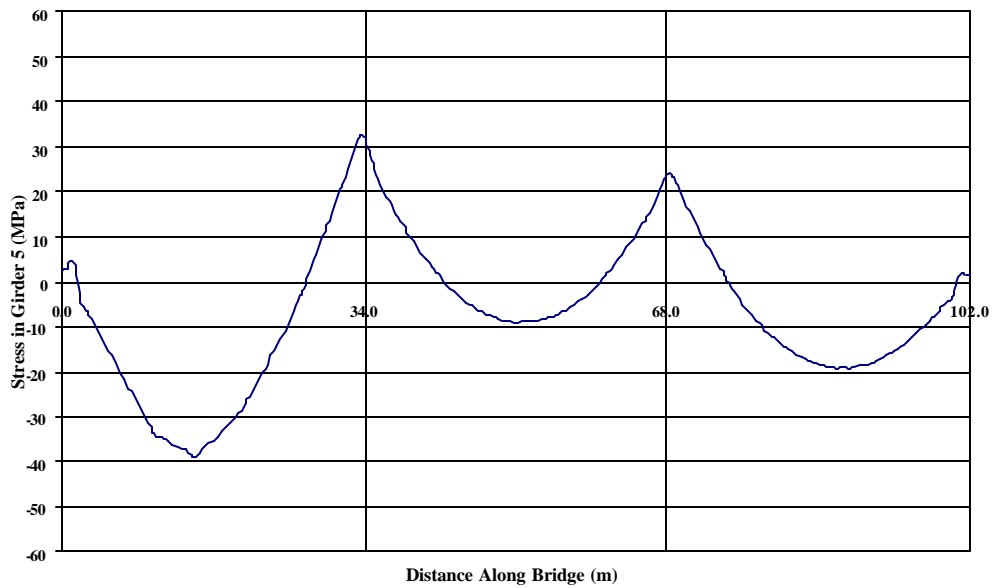


Figure 113

**Type IV Girder - 20° Bridge Skew – Girder spacing 1.52m – Span Length 34.0m
- No Diaphragm – Strength I Maximum Loading Condition**

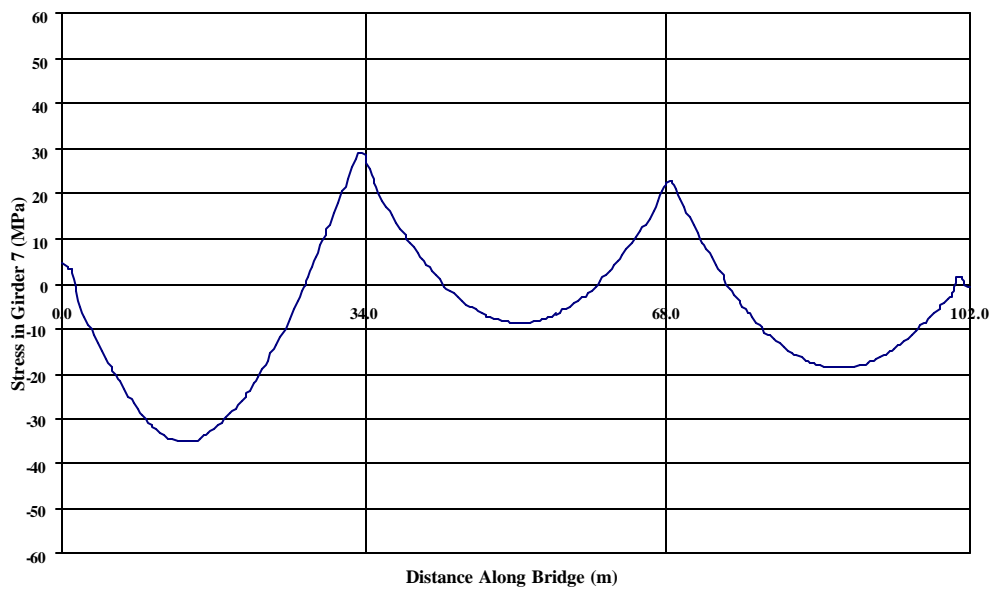


Figure 114

**Type IV Girder - 20° Bridge Skew – Girder spacing 1.52m – Span Length 34.0m
- No Diaphragm– Strength I Maximum Loading Condition**

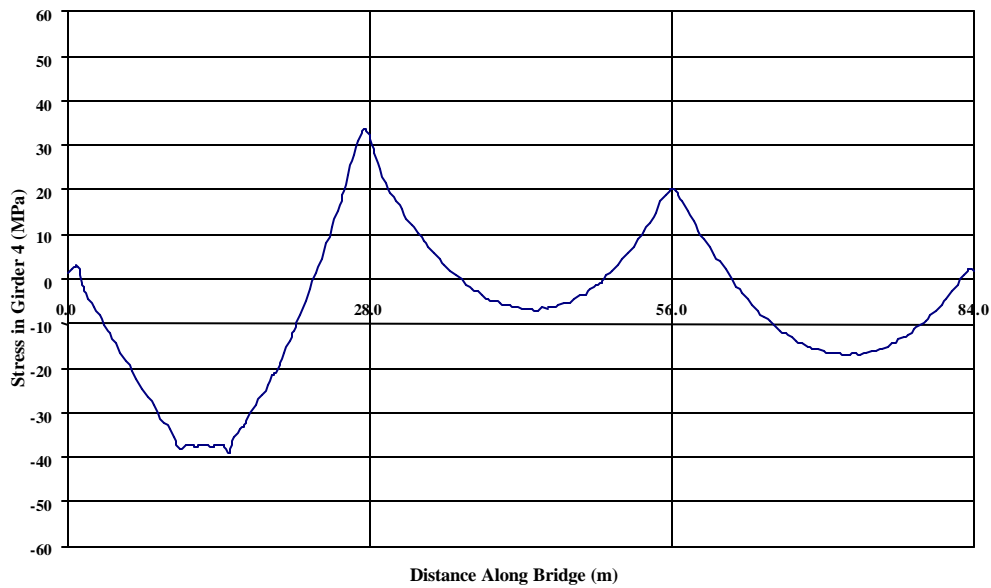


Figure 115

**Type IV Girder - 20° Bridge Skew – Girder spacing 2.75m – Span Length 28.0m
- 30° Diaphragm Skew – Strength I Maximum Loading Condition**

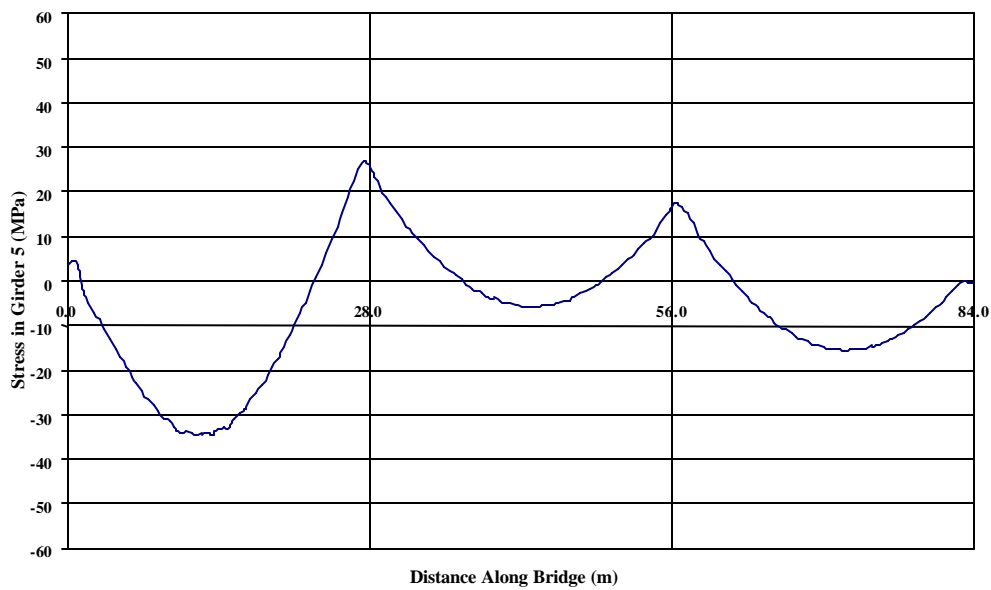


Figure 116

**Type IV Girder - 20° Bridge Skew – Girder spacing 2.75m – Span Length 28.0m
- 30° Diaphragm Skew – Strength I Maximum Loading Condition**

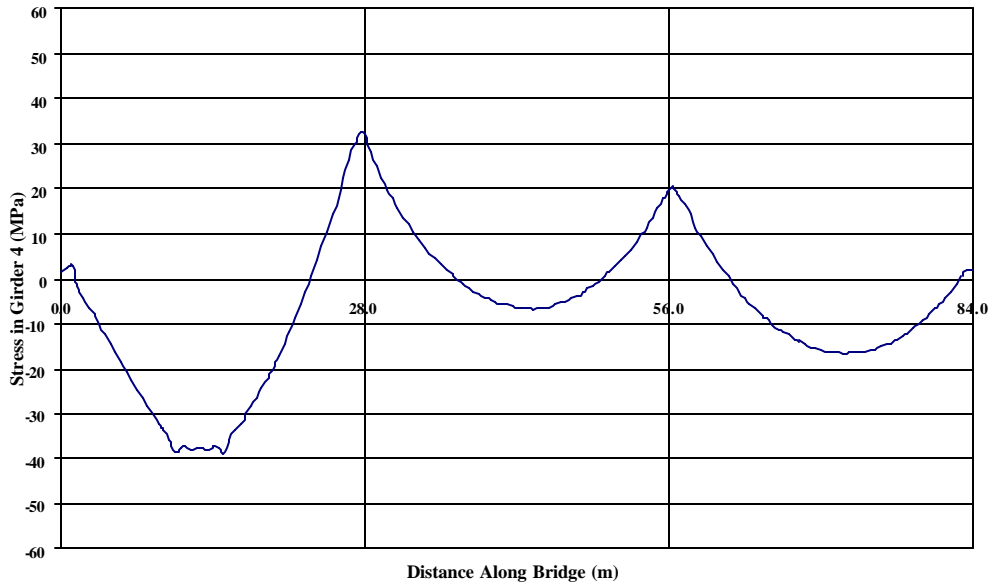


Figure 117

**Type IV Girder - 20° Bridge Skew – Girder spacing 2.75m – Span Length 28.0m
- 65° Diaphragm Skew – Strength I Maximum Loading Condition**

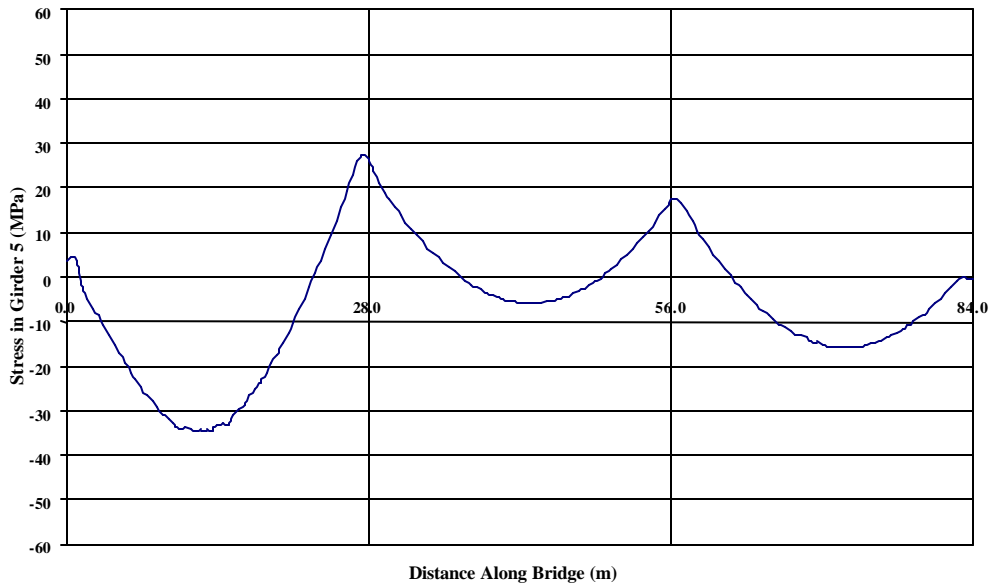


Figure 118

**Type IV Girder - 20° Bridge Skew – Girder spacing 2.75m – Span Length 28.0m
- 65° Diaphragm Skew – Strength I Maximum Loading Condition**

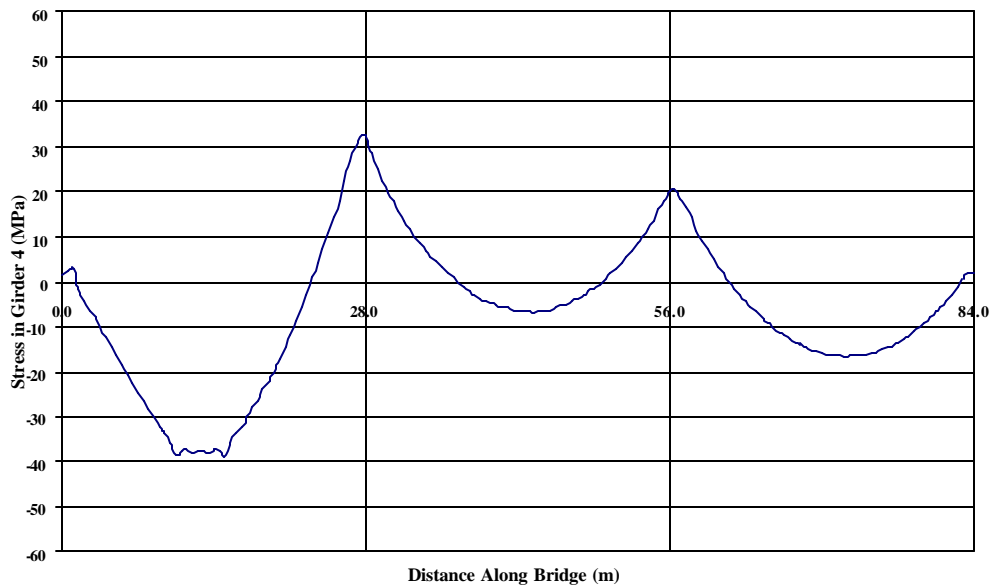


Figure 119

**Type IV Girder - 20° Bridge Skew – Girder spacing 2.75m – Span Length 28.0m
- No Diaphragm Skew – Strength I Maximum Loading Condition**

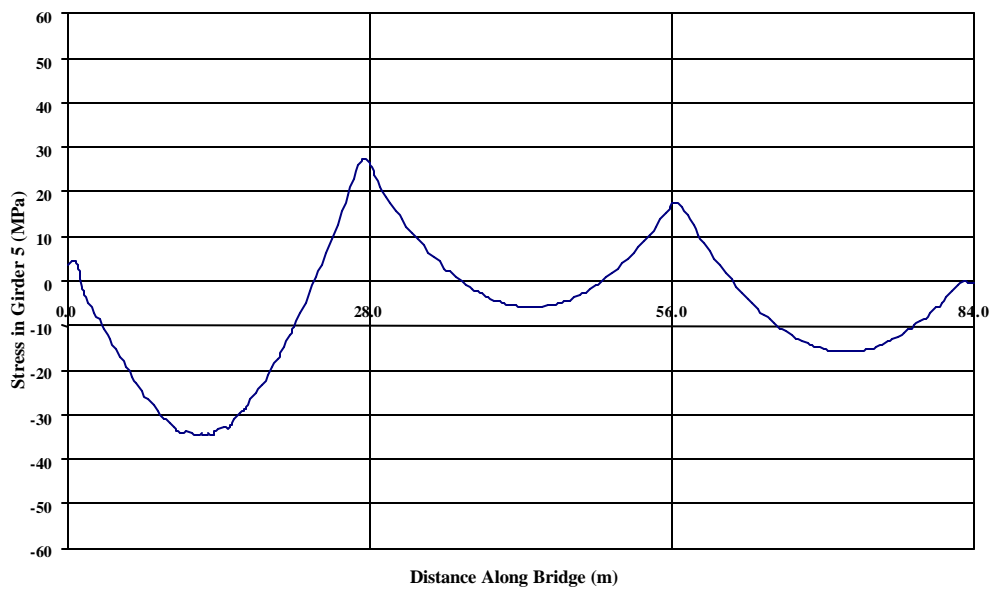


Figure 120

**Type IV Girder - 20° Bridge Skew – Girder spacing 2.75m – Span Length 28.0m
- No Diaphragm Skew – Strength I Maximum Loading Condition**