

Start and End Stations for Inputting Bridge Line Loads

- For line loads with zero transverse offset from the baseline, the start and end stations are directly used to determine the start and end of the line load.
- For line loads with non-zero transverse offset from the baseline, the start and end stations are first used to determine the relative start and end of the line load as a portion of the bridge span measured along the baseline. Then the line load is applied along a line offset from the baseline, such that the relative start and end of the line loads are the same as when measured along the baseline.
- This is illustrated in the following pages.

Bridge Object Plan View Display

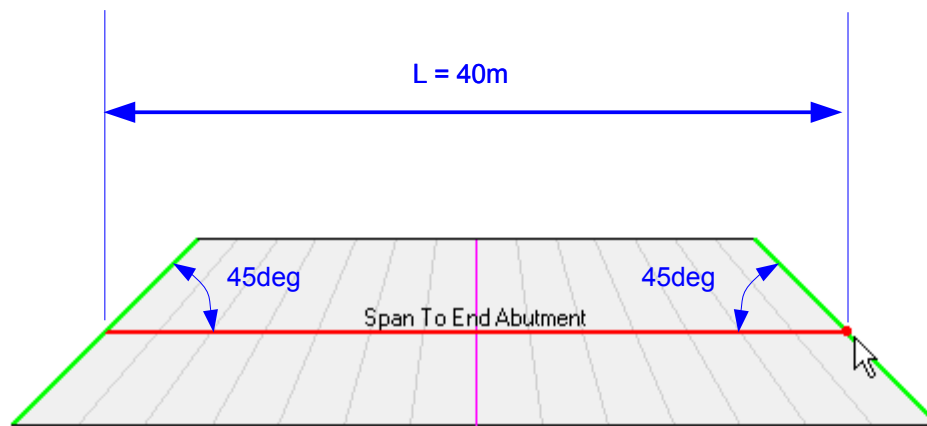
Bridge Object Plan View (X-Y Projection)



STATION 0m

STATION 40m

L = 40m



Bridge Object Name

BOBJ1

Units

KN, m, C

Coordinate System

GLOBAL

Snap To

- None
- Layout Line
- Span
- Abut., Bent, Hinge, Diaph.

Information

Layout Line	BLL1
Station	40.
Bearing	N 90°00'00" E
Radius	Infinite
Grade	0. %
X	40.
Y	0.
Z	0.

Show Span Labels

Done

Bridge Line Load Distribution Definition Data

Load Name: LINE LEFT Units: KN, m, C

Load Direction

Load Type: Force

Coordinate System: GLOBAL

Direction: Gravity Projected

Load Value

Value: 1.

Load Transverse Location

Reference Location: Left Edge of Deck

Load Distance from Reference Location: 0.

Load Vertical Location

Top Slab is Loaded at Midheight of its Thinnest Portion

OK Cancel

Bridge Line Load Distribution Definition Data

Load Name: LINE CENTER Units: KN, m, C

Load Direction

Load Type: Force

Coordinate System: GLOBAL

Direction: Gravity Projected

Load Value

Value: 1.

Load Transverse Location

Reference Location: Right Edge of Deck

Load Distance from Reference Location: 5.

Load Vertical Location

Top Slab is Loaded at Midheight of its Thinnest Portion

OK Cancel

Bridge Line Load Distribution Definition Data

Load Name: Units:

Load Direction:
Load Type:
Coordinate System:
Direction:

Load Value:
Value:

Load Transverse Location:
Reference Location:
Load Distance from Reference Location:

Load Vertical Location:
Top Slab is Loaded at Midheight of its Thinnest Portion

OK

Line Load Assignments - BOBJ1

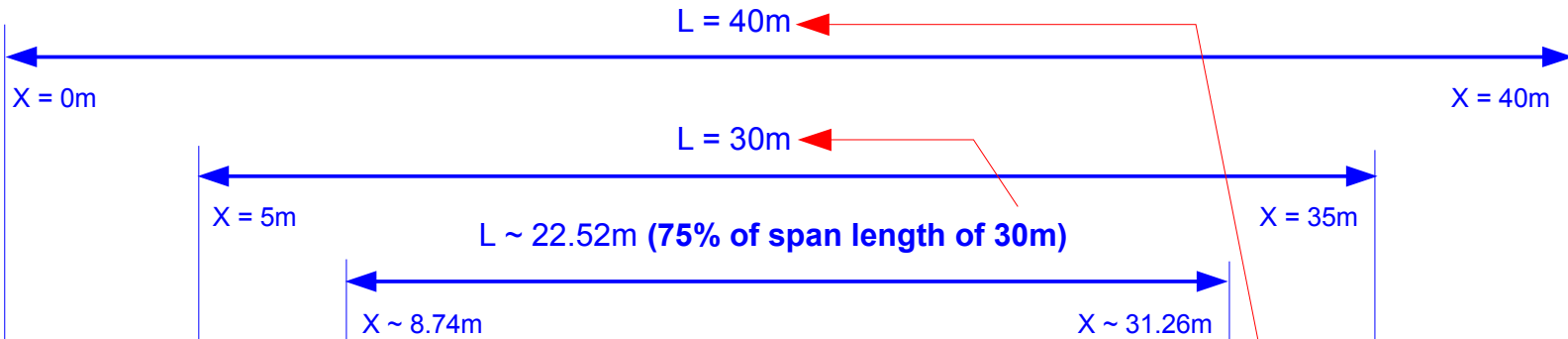
Line Load Data

Load Pattern	Load Distribution	Start Station m	End Station m	Transverse Variation
LINEAL LOAD	LINE RIGHT	5.	35.	None
LINEAL LOAD	LINE CENTER	5.	35.	None
LINEAL LOAD	LINE LEFT	5.	35.	None

Buttons: Add New, Add Copy, Delete, Up, Down, + Load Patterns, + Load Distributions, + Variations

Units:

OK Cancel



Bridge Object Loads (LINEAL LOAD)

