

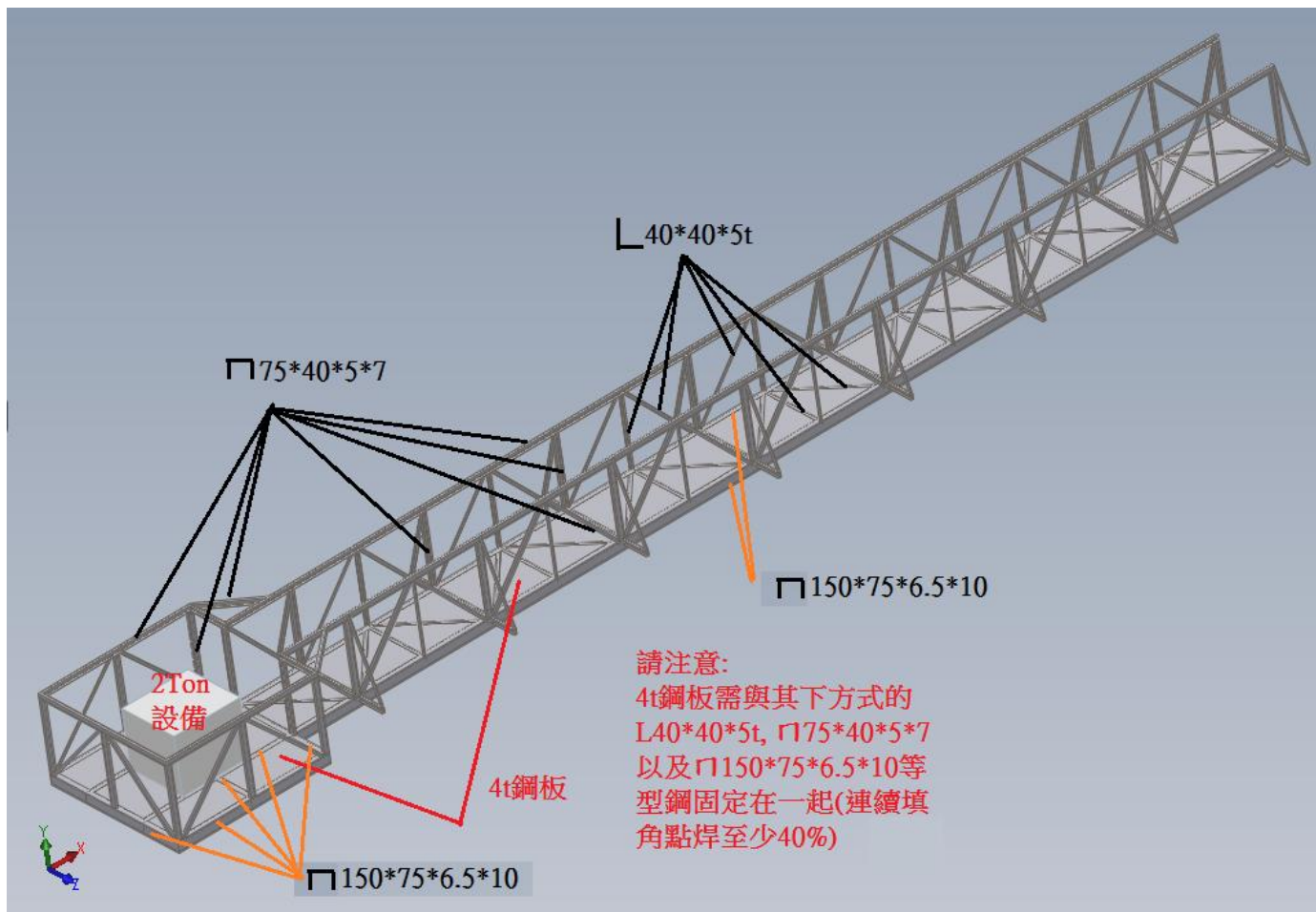
走橋結構初步強度分析與評估報告

承藝設計工作室

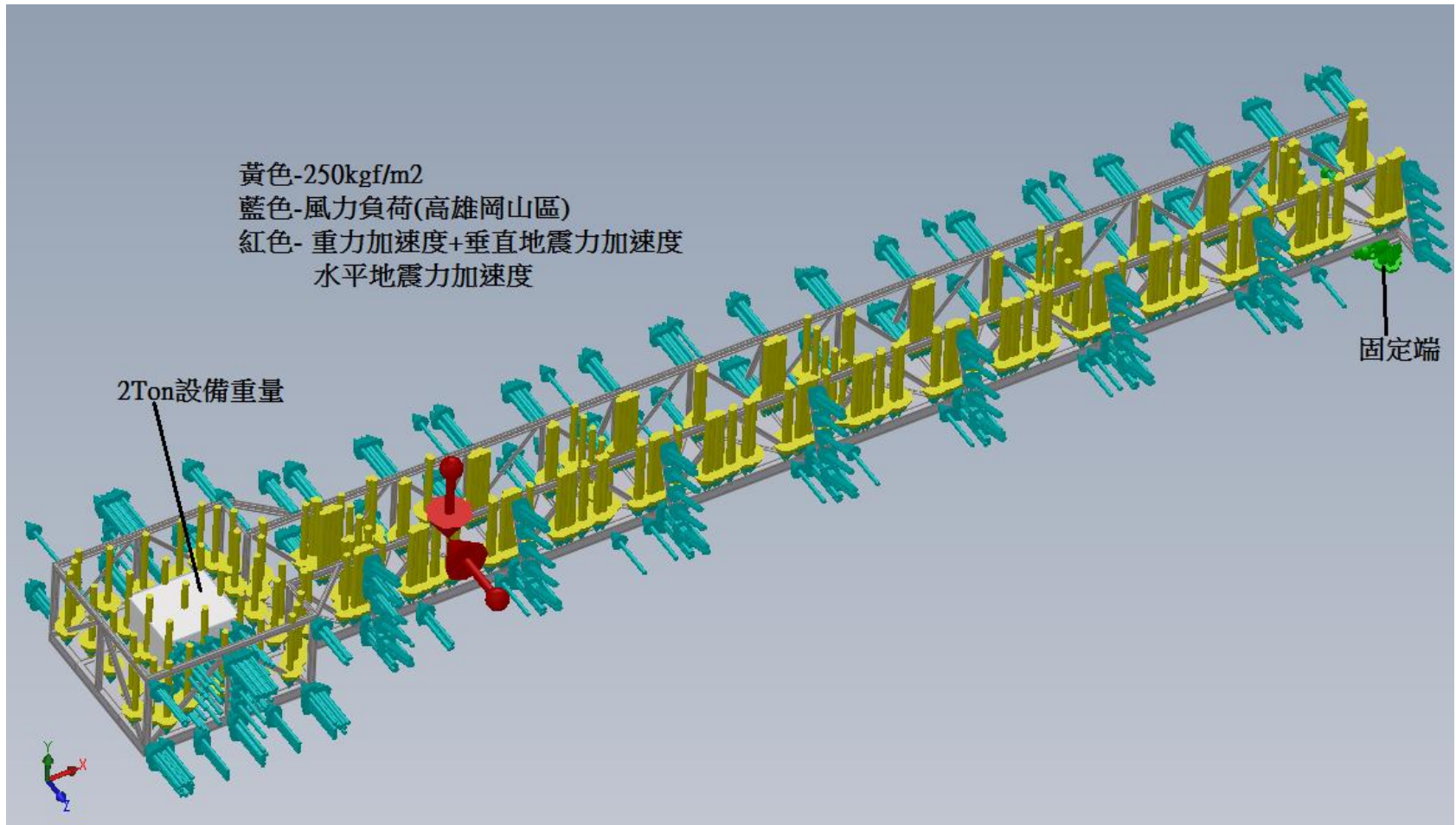
岡山橋頭污水處理廠刮泥機

2017/02/07

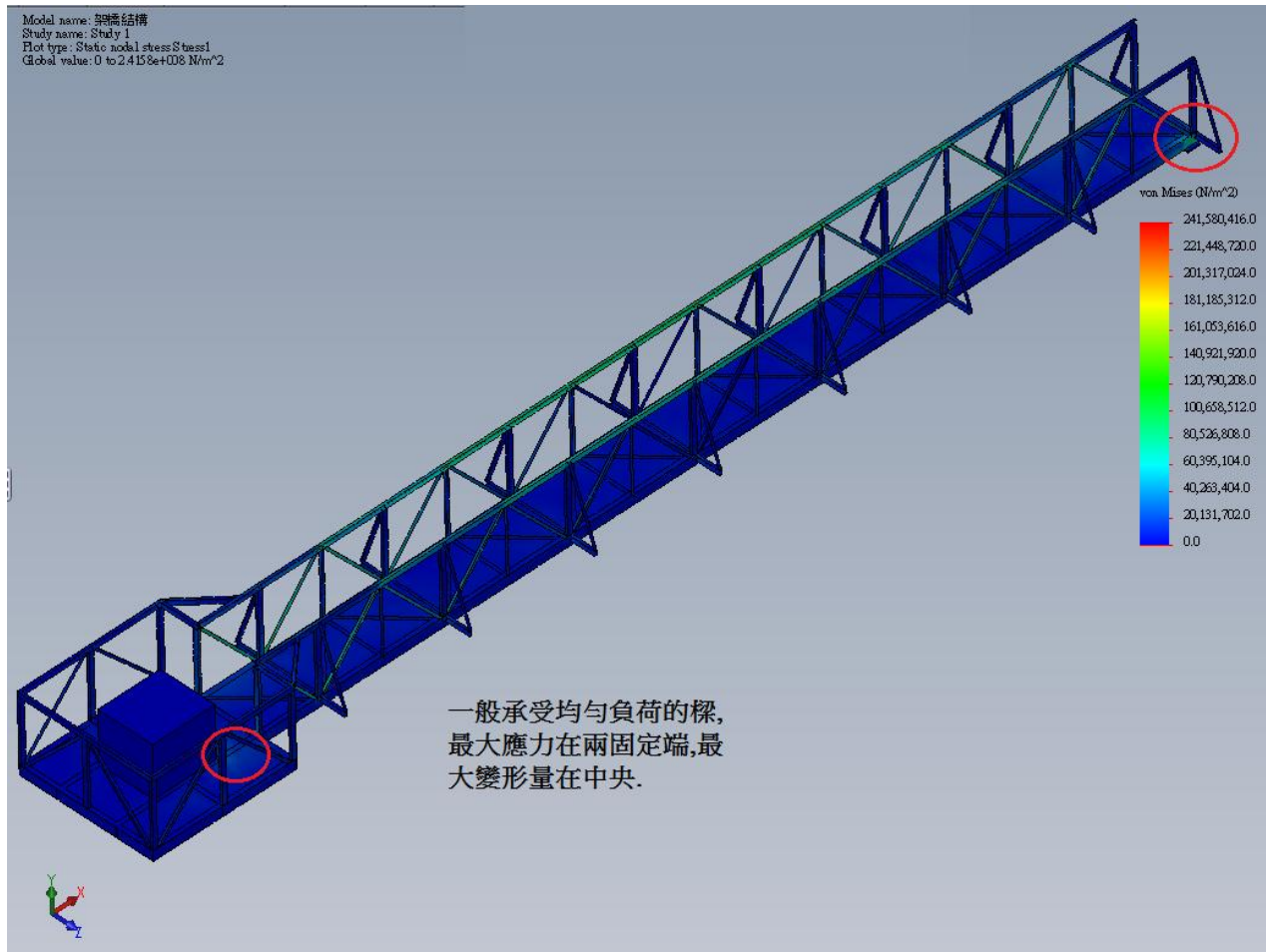
走橋結構組成



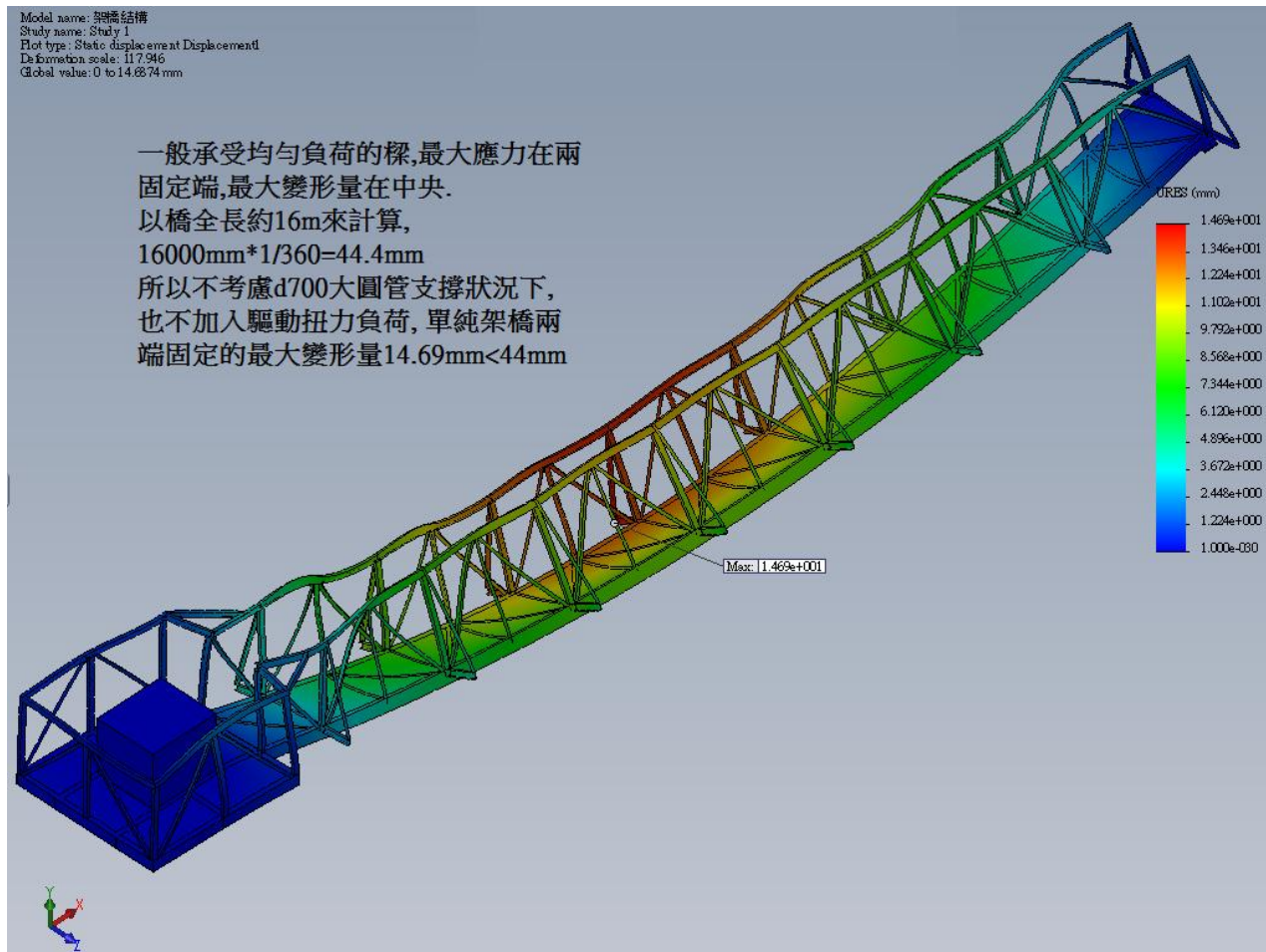
走橋負荷分佈(不含驅動扭力)



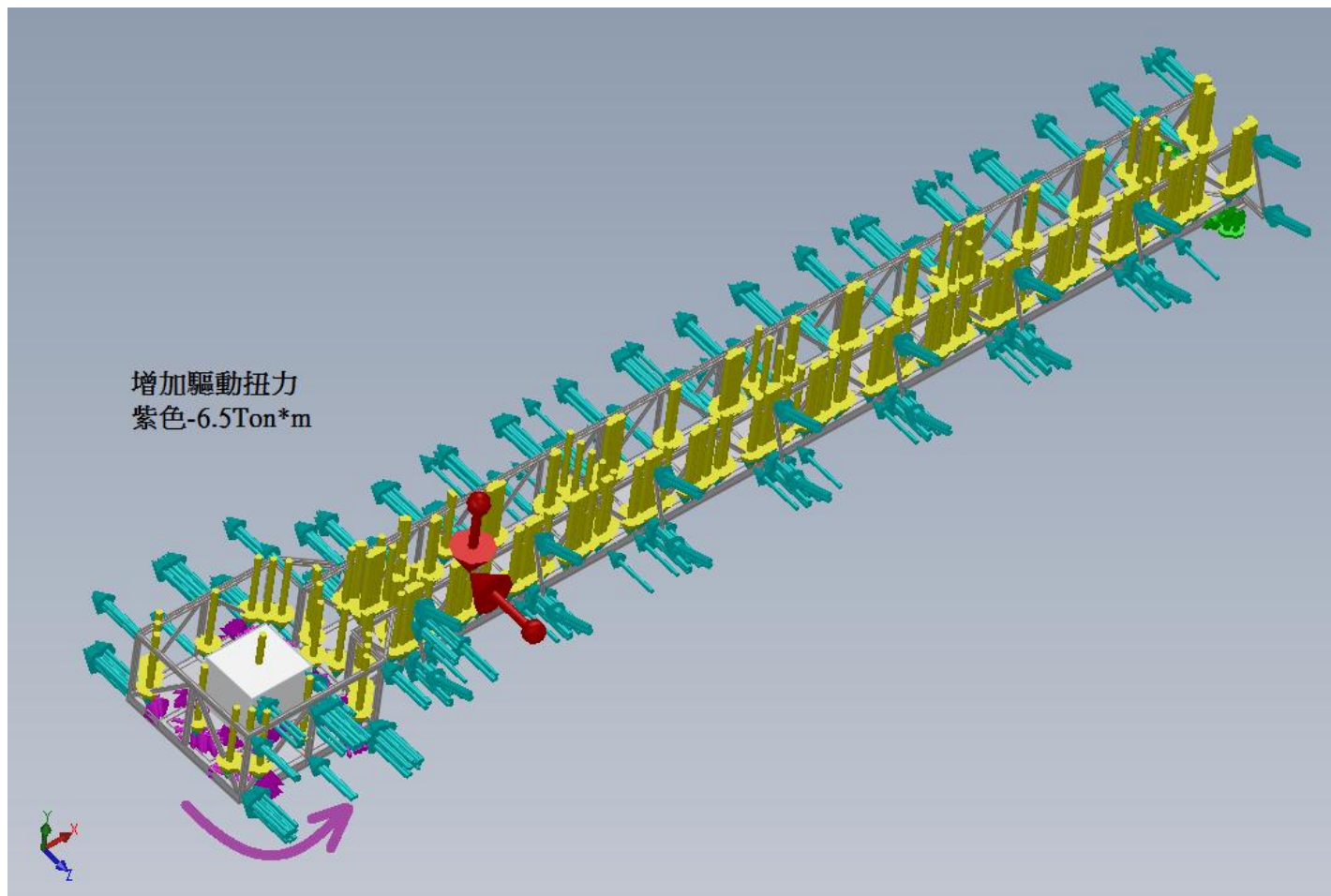
應力分佈(僅考慮走橋&不含驅動扭力)



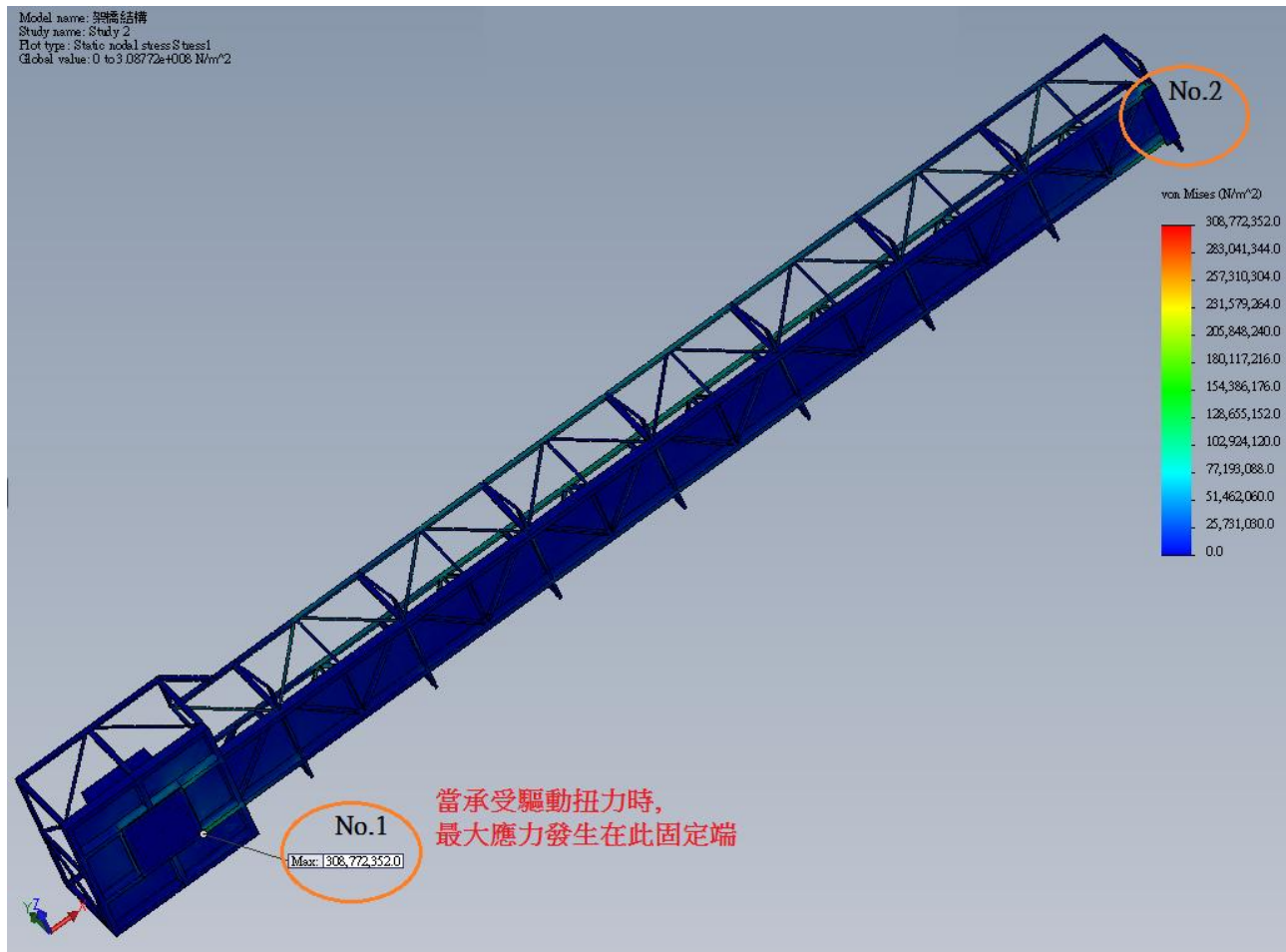
變形量分佈(僅考慮走橋&不含驅動扭力)



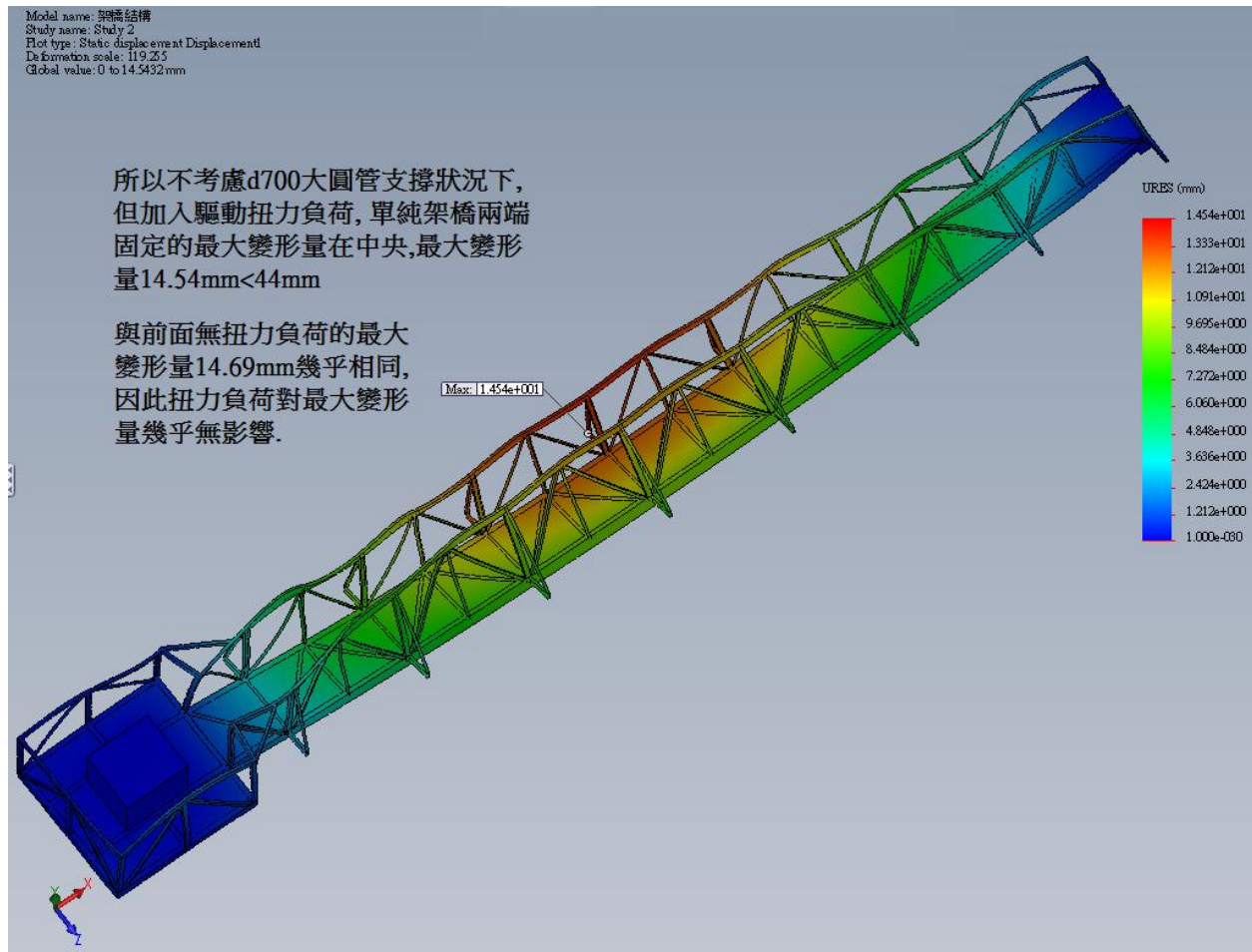
走橋負荷分佈(含驅動扭力)



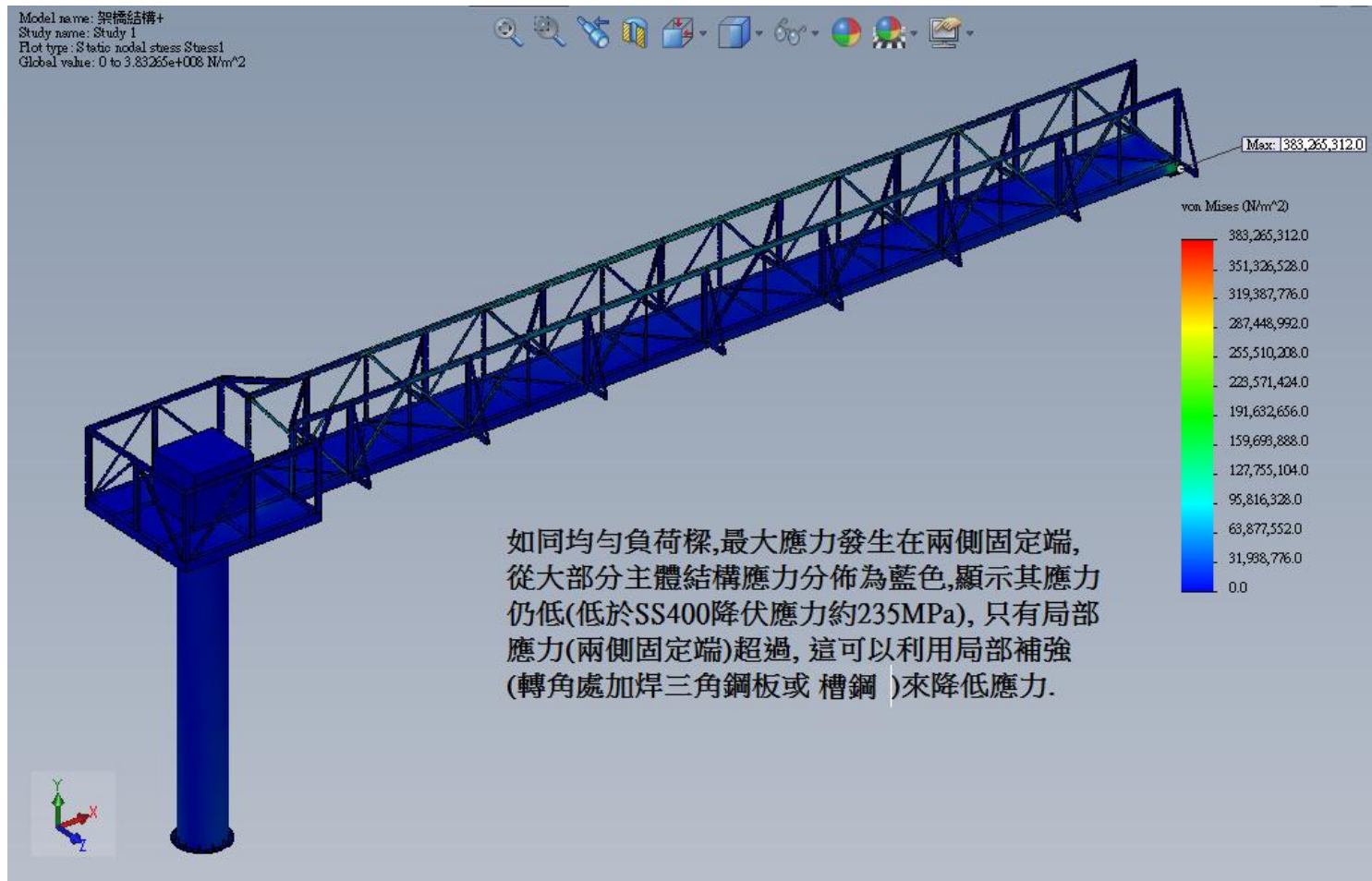
應力分佈(僅考慮走橋&含驅動扭力)



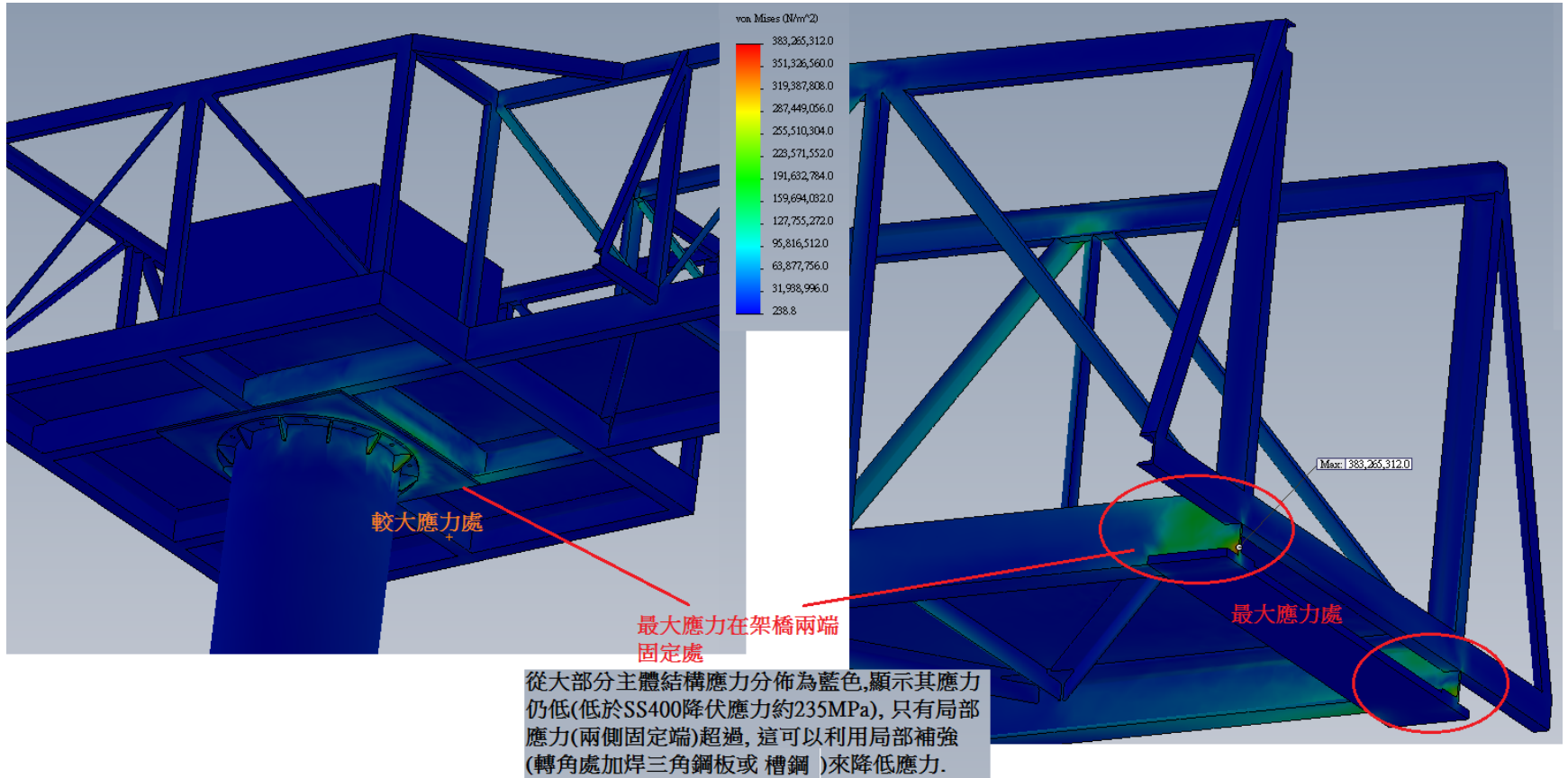
變形量分佈(僅考慮走橋&含驅動扭力)



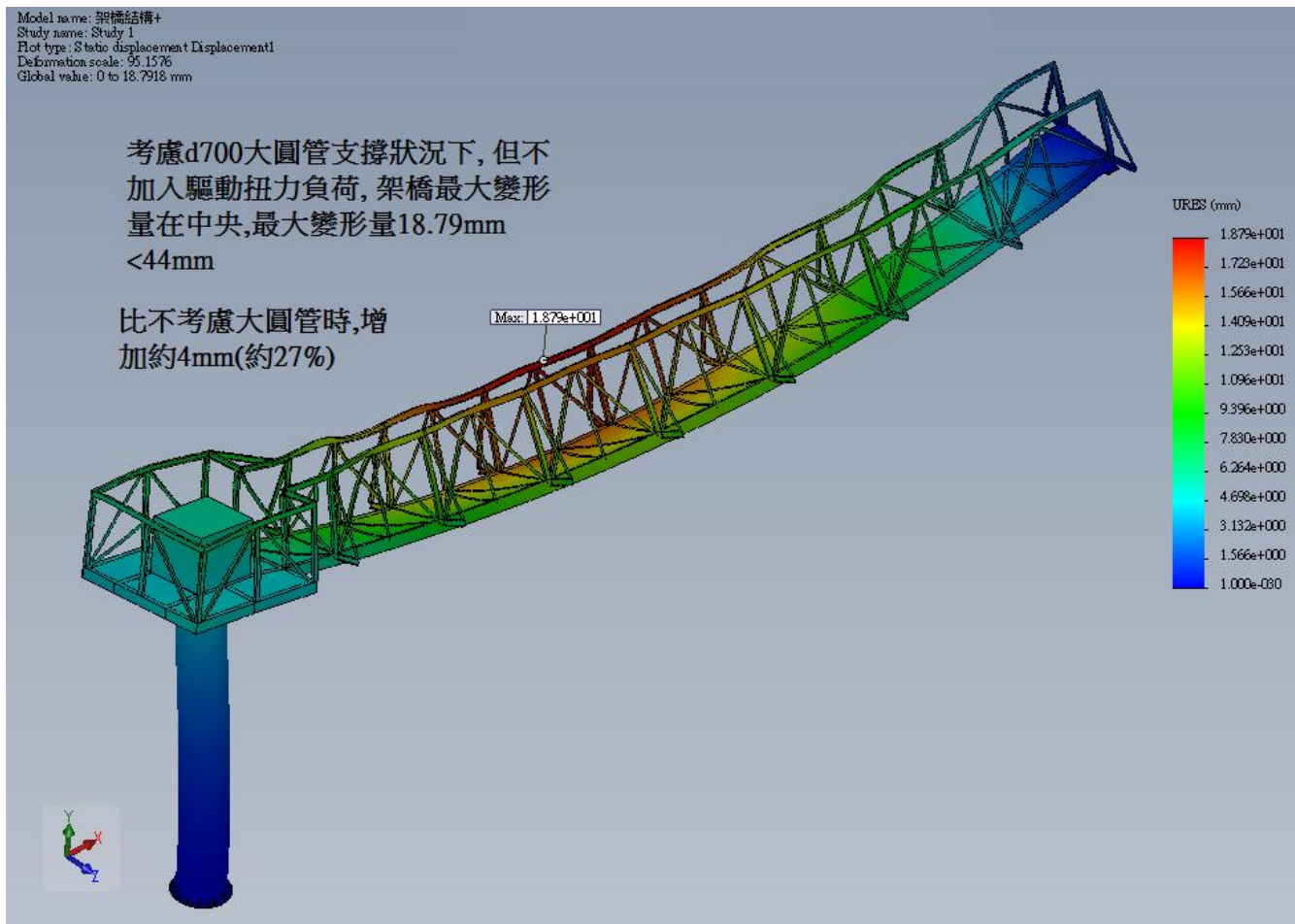
應力分佈(加入大圓管&不含驅動扭力)



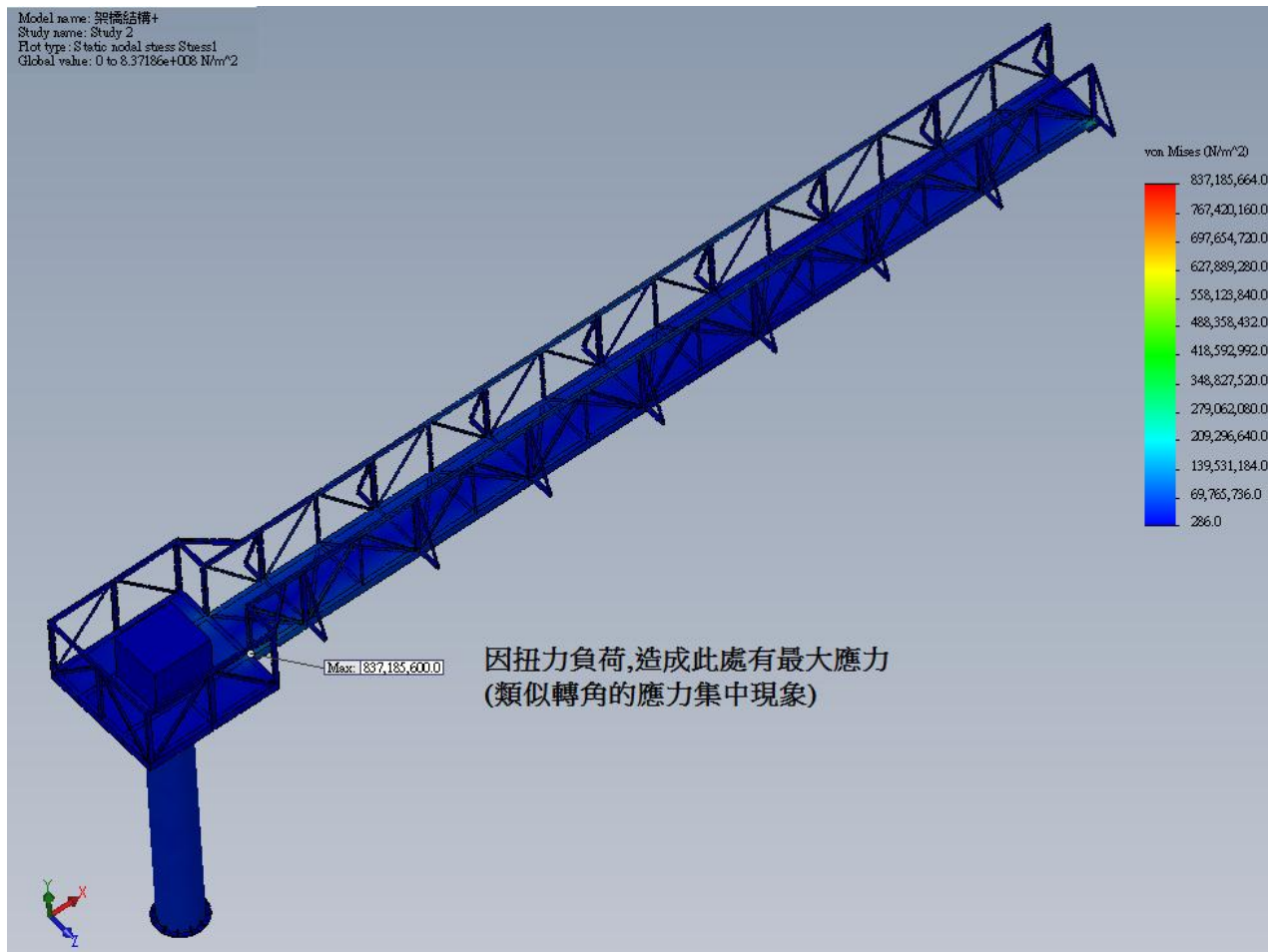
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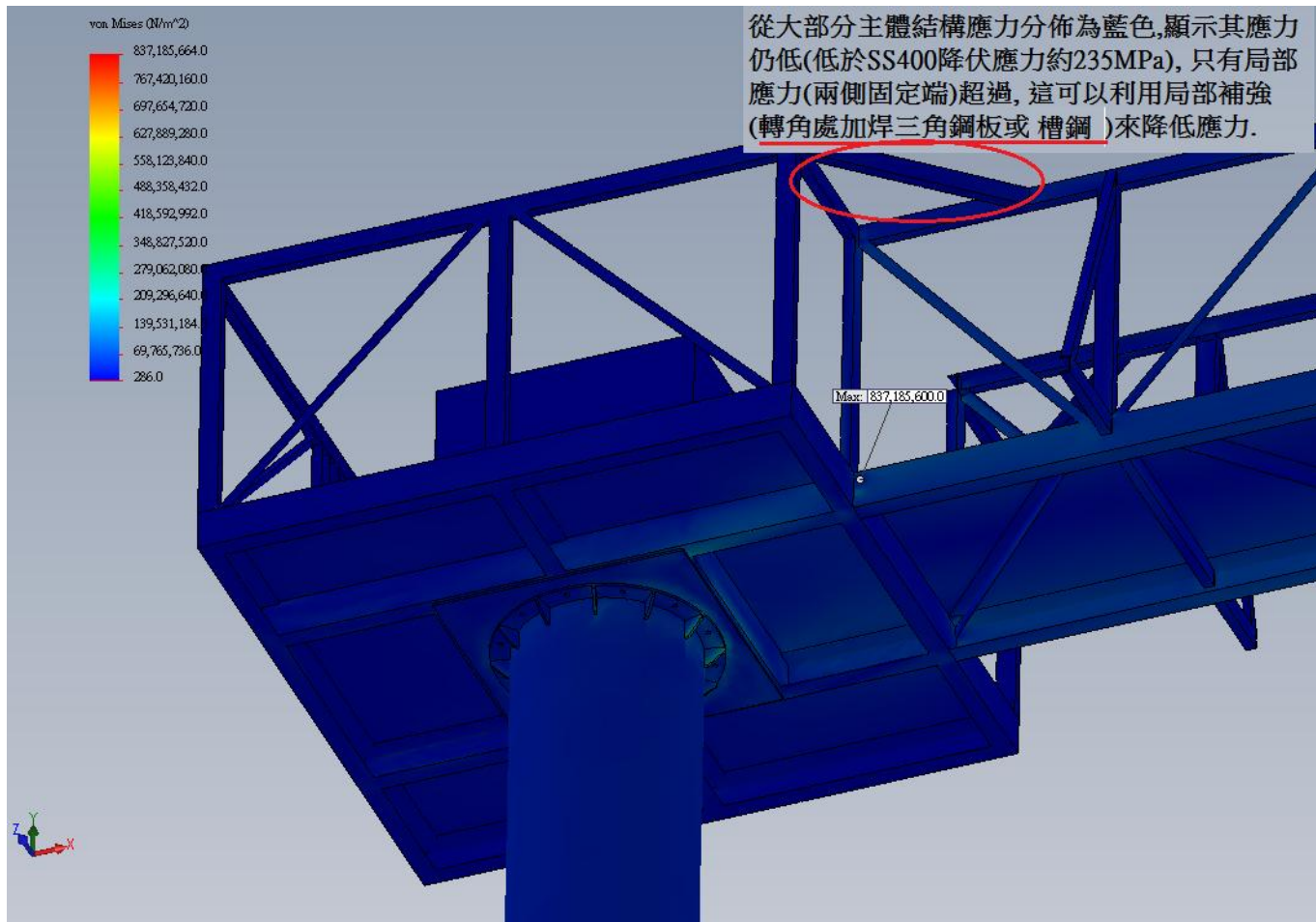
變形量分佈(加入大圓管&不含驅動扭力)



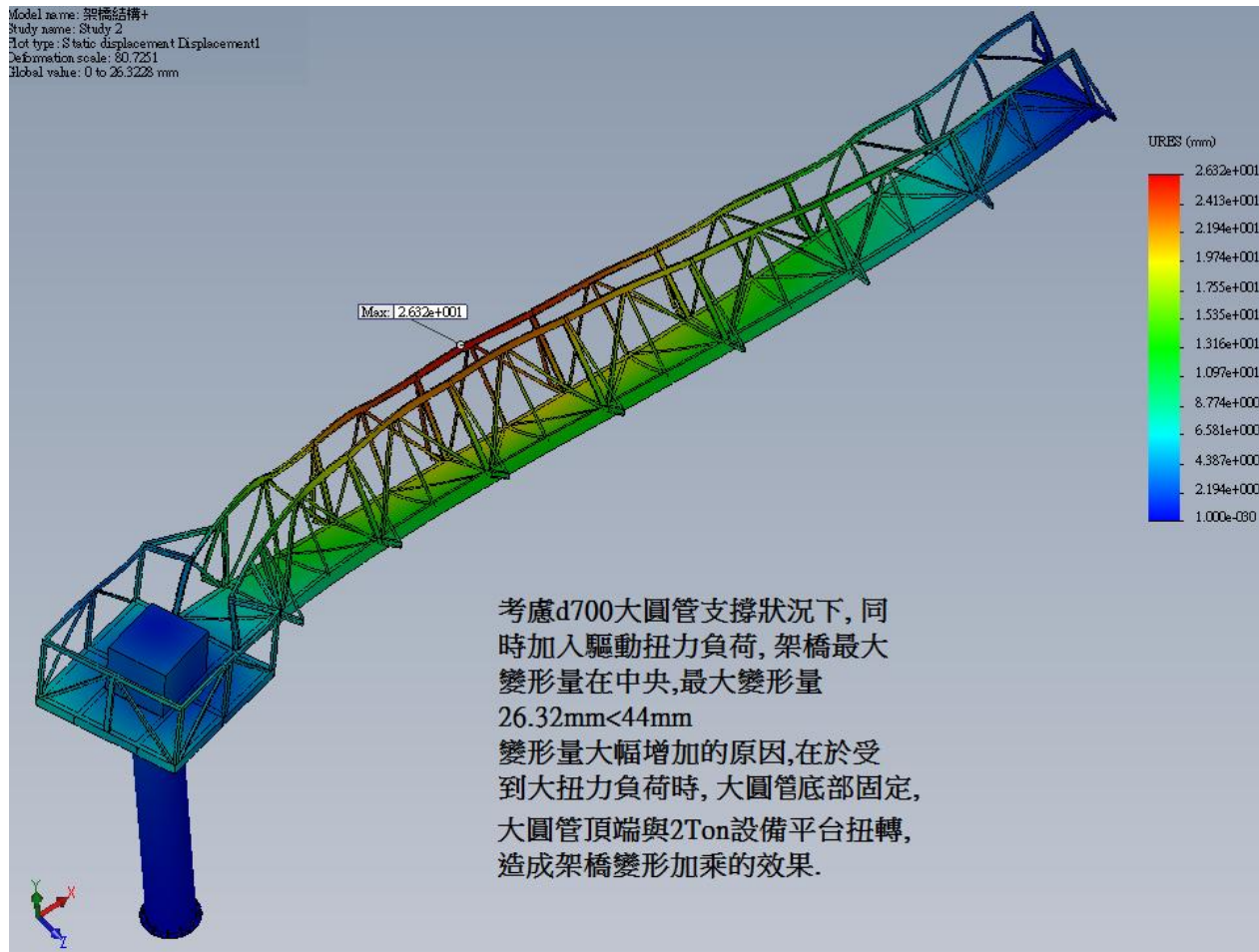
應力分佈(加入大圓管&含驅動扭力)



應力分佈(加入大圓管&含驅動扭力)



變形量分佈(加入大圓管&含驅動扭力)



結論

- 最大變形量符合 $<1/360$.
- 主體結構絕大部分應力都低於降伏應力,最大應力發生在走橋兩端結構固定處與轉角處,局部會有超出降伏應力,解決方法為以三角鋼板或槽鋼補強.