|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PROJECT INFORMATION | | | | | | | | | | | | | | | | | | |
| **Project ID:** |  | | | | | **County:** | | |  | | | | | **Route:** | | | |  |
| **Description:** | |  | | | | | | | | | | | | | | | | |
| **Loads Provided By:** | | |  | | | | | | | | | **Date Loads Provided:** | | |  | | | |
| **Bridge Type:** | | | | |  | | | | | | | | | | | | | |
| **No. Spans /Lengths:** | | | | |  | | | | | | **Width / No. Lanes:** | | |  | | | | |
| **Edition of AASHTO LRFD Bridge Design Specifications:** | | | | | | | | | | |  | | | | | **Scour Report Attached:** | | |
| **Edition of SCDOT Seismic Design Specifications for Highway Bridges:** | | | | | | | | | | |  | | | | |  | | |
| Proposed Foundations (foundation type, size, and number per bent) | | | | | | | | | | | | | | | | | | |
|  | | | | **Driven Piles** | | | | | | | | | | **Drilled Shafts** | | | | |
| **Steel** | | | | **Concrete** | | | | | |
| End Bent | | | |  | | | |  | | | | | |  | | | | |
| fy =       psi | | | | **f’c =       psi and Prestress =       psi** | | | | | | **f’c =       psi** | | | | |
| **Interior Bent** | | | |  | | | |  | | | | | |  | | | | |
| fy =       psi | | | | **f’c =       psi and Prestress =       psi** | | | | | | **f’c =       psi** | | | | |
| **Location/Elev. of Applied Loads:1** | | | | | | | **End Bent:** | | |  | | | **Int. Bent:** | | | |  | |
| **Location/Elev. Est. Point of Fixity:** | | | | | | | **End Bent:** | | |  | | | **Int. Bent:** | | | |  | |

1Perferred location of loads is either the existing ground line for interior bents or the proposed ground line for end bents.

**Compression Loads**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Limit State** | **Strength** | | | **Service** | | |
| **Load Cases:** | **Case 1FL (P=Pmax)** | **Case 2FL (V=Vmax)** | **Case 3FL (M=Mmax)** | **Case 1SL (P=Pmax)** | **Case 2SL (V=Vmax)** | **Case 3SL (M=Mmax)** |
| **End Bent - Longitudinal** | P (kips) = |  |  |  |  |  |  |
| **V ( kips) =** |  |  |  |  |  |  |
| **M ( ft-kip) =** |  |  |  |  |  |  |
| **End Bent - Transverse** | P (kips) = |  |  |  |  |  |  |
| **V ( kips) =** |  |  |  |  |  |  |
| **M ( ft-kip) =** |  |  |  |  |  |  |
| **Interior Bent - Longitudinal** | P (kips) = |  |  |  |  |  |  |
| **V ( kips) =** |  |  |  |  |  |  |
| **M ( ft-kip) =** |  |  |  |  |  |  |
| **Interior Bent - Transverse** | P (kips) = |  |  |  |  |  |  |
| **V ( kips) =** |  |  |  |  |  |  |
| **M ( ft-kip) =** |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | **Limit State** | **Extreme Event Ic** | | | **Extreme Event IIa,c** | | | **Extreme Event IIb,c** | | |
| **Load Cases:** | **Case 1EL (P=Pmax)** | **Case 2EL (V=Vmax)** | **Case 3EL (M=Mmax)** | **Case 1EEL (P=Pmax)** | **Case 2EEL (V=Vmax)** | **Case 3EEL (M=Mmax)** | **Case 1EEL (P=Pmax)** | **Case 2EEL (V=Vmax)** | **Case 3EEL (M=Mmax)** |
| **End Bent - Longitudinal** | P (kips) = |  |  |  |  |  |  |  |  |  |
| **V ( kips) =** |  |  |  |  |  |  |  |  |  |
| **M ( ft-kip) =** |  |  |  |  |  |  |  |  |  |
| **End Bent - Transverse** | P (kips) = |  |  |  |  |  |  |  |  |  |
| **V ( kips) =** |  |  |  |  |  |  |  |  |  |
| **M ( ft-kip) =** |  |  |  |  |  |  |  |  |  |
| **Interior Bent - Longitudinal** | P (kips) = |  |  |  |  |  |  |  |  |  |
| **V ( kips) =** |  |  |  |  |  |  |  |  |  |
| **M ( ft-kip) =** |  |  |  |  |  |  |  |  |  |
| **Interior Bent - Transverse** | P (kips) = |  |  |  |  |  |  |  |  |  |
| **V ( kips) =** |  |  |  |  |  |  |  |  |  |
| **M ( ft-kip) =** |  |  |  |  |  |  |  |  |  |

Notes: P – Axial; V – Shear; M – Moment; a – Check Flood w/o collision loads; b – Collision loads w/o check flood; c – If no EE Limit State loads are to be provided, the SEOR shall either put 0 or N/A. Please note that N/A will be interpreted as 0.

**Tension Loads**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Limit State** | **Strength** | | | **Service** | | |
| **Load Cases:** | **Case 1FL (P=Pmax)** | **Case 2FL (V=Vmax)** | **Case 3FL (M=Mmax)** | **Case 1SL (P=Pmax)** | **Case 2SL (V=Vmax)** | **Case 3SL (M=Mmax)** |
| **End Bent - Longitudinal** | P (kips) = |  |  |  |  |  |  |
| **V ( kips) =** |  |  |  |  |  |  |
| **M ( ft-kip) =** |  |  |  |  |  |  |
| **End Bent - Transverse** | P (kips) = |  |  |  |  |  |  |
| **V ( kips) =** |  |  |  |  |  |  |
| **M ( ft-kip) =** |  |  |  |  |  |  |
| **Interior Bent - Longitudinal** | P (kips) = |  |  |  |  |  |  |
| **V ( kips) =** |  |  |  |  |  |  |
| **M ( ft-kip) =** |  |  |  |  |  |  |
| **Interior Bent - Transverse** | P (kips) = |  |  |  |  |  |  |
| **V ( kips) =** |  |  |  |  |  |  |
| **M ( ft-kip) =** |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | **Limit State** | **Extreme Event Ic** | | | **Extreme Event IIa,c** | | | **Extreme Event IIb,c** | | |
| **Load Cases:** | **Case 1EL (P=Pmax)** | **Case 2EL (V=Vmax)** | **Case 3EL (M=Mmax)** | **Case 1EEL (P=Pmax)** | **Case 2EEL (V=Vmax)** | **Case 3EEL (M=Mmax)** | **Case 1EEL (P=Pmax)** | **Case 2EEL (V=Vmax)** | **Case 3EEL (M=Mmax)** |
| **End Bent - Longitudinal** | P (kips) = |  |  |  |  |  |  |  |  |  |
| **V ( kips) =** |  |  |  |  |  |  |  |  |  |
| **M ( ft-kip) =** |  |  |  |  |  |  |  |  |  |
| **End Bent - Transverse** | P (kips) = |  |  |  |  |  |  |  |  |  |
| **V ( kips) =** |  |  |  |  |  |  |  |  |  |
| **M ( ft-kip) =** |  |  |  |  |  |  |  |  |  |
| **Interior Bent - Longitudinal** | P (kips) = |  |  |  |  |  |  |  |  |  |
| **V ( kips) =** |  |  |  |  |  |  |  |  |  |
| **M ( ft-kip) =** |  |  |  |  |  |  |  |  |  |
| **Interior Bent - Transverse** | P (kips) = |  |  |  |  |  |  |  |  |  |
| **V ( kips) =** |  |  |  |  |  |  |  |  |  |
| **M ( ft-kip) =** |  |  |  |  |  |  |  |  |  |

Notes: P – Axial; V – Shear; M – Moment; a – Check Flood w/o collision loads; b – Collision loads w/o check flood; c – If no EE Limit State loads are to be provided, the SEOR shall either put 0 or N/A. Please note that N/A will be interpreted as 0.