

| | | TABLE OF SECTION DEPTHS | | | | | |
|----------|-----|-------------------------|-----------------|-----------------|-------------------|--|--|
| | | Span No. | "X" at & Brg | "Y" at © Brg | 3"Z" at © Span | | |
| F | -] | 1 | 9" | 4'-1" | 8 3/4" | | |
| 9 | 2 | 2 | 10 1/2" | 4'-2 1/2" | 8 ¾" | | |
| Phose | Ĕ l | 3 | 9" | 4'-1" | 8 ¾" | | |
| 10 | - | | | | | | |
| 1 | - 1 | 1 | 9" | 4'-1" | 8 3/4" | | |
| Phose | š l | 2 | 10 ½" | 4'-2 1/2" | 8 3/4" | | |
| <u>۾</u> | | 3 | 9" | 4'-1" | 8 3/4" | | |

3Theoretical dimension

| | | Beam | "A" | "B" | |
|---------|---|------|-------|-------|--|
| | | No. | F† | F† | |
| Phase 1 | 1 | All | 0.006 | 0.008 | |
| | 2 | AII | 0.099 | 0.139 | |
| | 3 | AII | 0.006 | 0.008 | |
| 2 | | | | | |
| Phase 2 | 1 | All | 0.006 | 0.008 | |
| | 2 | All | 0.099 | 0.139 | |
| | 3 | All | 0.006 | 0.008 | |
| | | | | | |

| | Sym abt & Span ——— |
|-----|-----------------------|
| "A" | "8 "B |

 $(E_{\rm C}\text{=}~5~{\rm X}~10^6~{\rm psi})$ Deflections shown are due to concrete slab only. Calculated deflections shown are theoretical and actual dimensions may be less. Deflections shall be adjusted based on field observations.

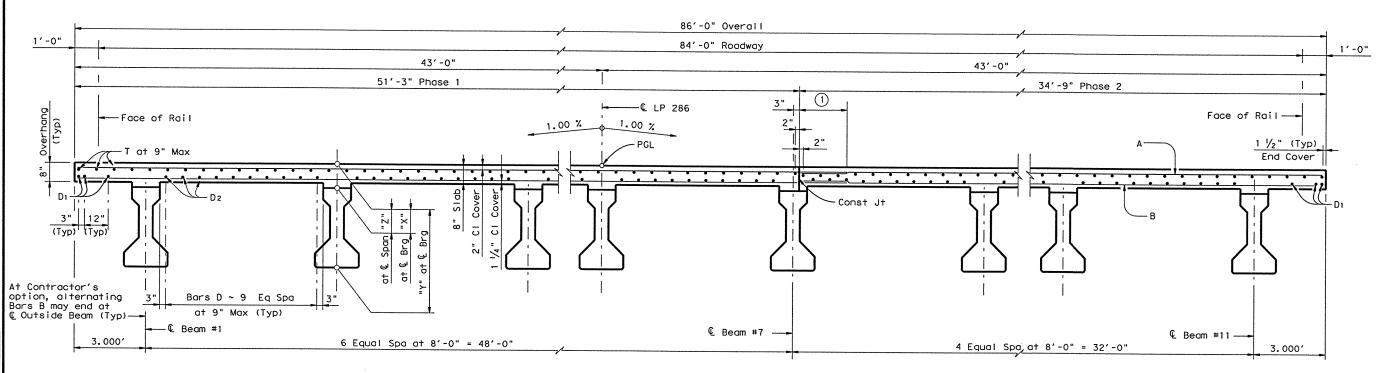
DEAD LOAD DEFLECTION DIAGRAM

| BAR TABLE | | | |
|-----------|------|--|--|
| Bar | Size | | |
| Α | #5 | | |
| AA | #5 | | |
| В | #5 | | |
| D | #5 | | |
| G | #5 | | |
| Н | #5 | | |
| J | #5 | | |
| K | #5 | | |
| М | #5 | | |
| Т | #4 | | |

TABLE OF ESTIMATED QUANTITIES

| | Span | Reinf Concrete Slab | Prestr Concrete Beams (Ty C) | Class "S" Concrete | Reinf Steel | | | |
|---------|--------|---------------------------|--|--------------------------|----------------|--|--|--|
| | No. | SF | LF | CY | Lb | | | |
| Phase 1 | 1 | 2050 | 277.48 | 52.8 | 13,325 | | | |
| | 2 | 4100 | 557.69 | 103.9 | 26,650 | | | |
| | 3 | 2050 | 277.48 | 52.8 | 13,325 | | | |
| | Total | 8200 | 1,112.65 | 209.5 | 53,300 | | | |
| Phase 2 | | | | | | | | |
| | 1 | 1390 | 158.56 | 35.7 | 9,035 | | | |
| | 2 2780 | | 318.68 | 70.2 | 18,070 | | | |
| | 3 | 3 1390 158.56 | | 35.7 | 9,035 | | | |
| | Total | 5560 | 635.80 | 141.6 | 36,140 | | | |

1) Reinforcing steel weight is calcualted using an approximate factor of 6.5 Lbs/SF.



① Extend Bars A, AA, B, G & H 2'-0" Min into Phase 2 Construction

HL93 LOADING

SHEET 2 OF 2



★ Texas Department of TransportationBridge Division

160.00' PRESTRESSED CONCRETE BEAM UNIT

UPRR RAILWAY OVERPASS PHASE 1 & 2

| FILE: 6698pb01.dgn | DN: LJN | CK: JFF | DW: W | MB | CK: | LJN |
|--------------------|----------|------------------------------|---------|------------|-----|--------|
| © TxDOT AUG 2005 | DISTRICT | DISTRICT FEDERAL AID PROJECT | | | | SHEET |
| REVISIONS | PAR | PAR BR | | 2006 (750) | | |
| | c | YTAUC | CONTROL | SECT | JOB | HIGHWA |
| | L | LAMAR | | 01 | 103 | LP286 |

DACIO MARIN III

65549

CONTERPEDIO

ONAL ENGINE

25 John 2006

10111213141516 PATH: 526272829303132

