

GIRDER DIMENSIONS

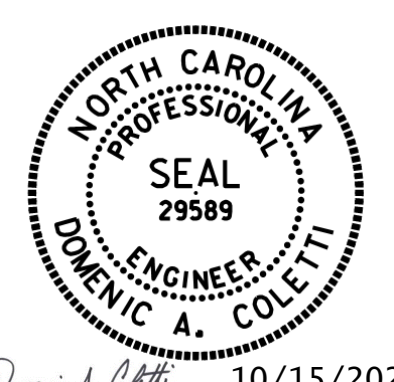
| GIRDER | CL RADIUS | A | B | C | D | E | F | G | H | I | J | K | L | M | N | P | Q | R | S | T | U | V | W | X | Y | Z |
|--------|-----------|---------------------------------------|---------------------------------------|--|---------------------------------------|--|---------------------------------------|--|--------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|--|---------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| 1 | 3638'-0" | 126'-4 ⁵ / ₈ " | 168'-11 ³ / ₄ " | 230'-7 ¹ / ₄ " | 202'-9 ⁵ / ₁₆ " | 173'-2 ⁵ / ₁₆ " | 89'-7 ⁵ / ₁₆ " | 36'-9 ⁵ / ₁₆ " | 33'-9 ⁹ / ₁₆ " | 77'-6 ³ / ₈ " | 57'-7 ³ / ₁₆ " | 48'-8 ⁷ / ₁₆ " | 133'-2 ³ / ₈ " | 48'-8 ⁷ / ₁₆ " | 59'-7 ¹¹ / ₁₆ " | 92'-5 ⁵ / ₁₆ " | 50'-8 ⁵ / ₁₆ " | 49'-2 ⁷ / ₁₆ " | 123'-11 ⁷ / ₈ " | 18'-9 ⁵ / ₁₆ " | 15'-9 ⁹ / ₁₆ " | 33'-7 ³ / ₁₆ " | 31'-8 ⁷ / ₁₆ " | 37'-7 ¹ / ₄ " | 39'-7 ¹ / ₁₆ " | 31'-8 ⁷ / ₁₆ " |
| 2 | 3650'-0" | 126'-9 ³ / ₄ " | 169'-6 ⁷ / ₁₆ " | 231'-4 ³ / ₈ " | 203'-5 ⁵ / ₁₆ " | 173'-9 ¹ / ₄ " | 89'-10 ⁵ / ₁₆ " | 36'-10 ¹³ / ₁₆ " | 33'-10 ⁷ / ₈ " | 77'-9 ⁷ / ₁₆ " | 57'-10 ¹ / ₈ " | 48'-10 ³ / ₈ " | 133'-7 ⁵ / ₈ " | 48'-10 ³ / ₈ " | 59'-10 ¹ / ₁₆ " | 92'-8 ¹⁵ / ₁₆ " | 50'-10 ⁵ / ₁₆ " | 49'-4 ³ / ₈ " | 124'-4 ⁷ / ₈ " | 18'-10 ³ / ₁₆ " | 15'-10 ⁷ / ₈ " | 33'-10 ¹ / ₈ " | 31'-10 ³ / ₈ " | 37'-9 ³ / ₁₆ " | 39'-9 ³ / ₄ " | 31'-10 ³ / ₈ " |
| 3 | 3662'-0" | 127'-2 ⁷ / ₈ " | 170'-1 ¹ / ₈ " | 232'-1 ¹ / ₂ " | 204'-1 ⁵ / ₁₆ " | 174'-4 ¹ / ₈ " | 90'-2 ⁵ / ₈ " | 37'-0 ¹ / ₄ " | 34'-0 ¹ / ₄ " | 78'-0 ¹ / ₂ " | 58'-0 ³ / ₈ " | 49'-0 ⁵ / ₁₆ " | 134'-0 ⁷ / ₈ " | 49'-0 ⁵ / ₁₆ " | 60'-0 ³ / ₈ " | 93'-0 ⁵ / ₈ " | 51'-0 ⁵ / ₁₆ " | 49'-6 ⁵ / ₁₆ " | 124'-9 ³ / ₁₆ " | 19'-0 ¹ / ₄ " | 16'-0 ¹ / ₄ " | 34'-0 ³ / ₈ " | 32'-0 ⁵ / ₁₆ " | 38'-0 ⁷ / ₁₆ " | 40'-0 ⁷ / ₁₆ " | 32'-0 ⁵ / ₁₆ " |
| 4 | 3674'-0" | 127'-7 ⁵ / ₁₆ " | 170'-7 ³ / ₁₆ " | 232'-10 ⁵ / ₁₆ " | 204'-9 ³ / ₈ " | 174'-11 ¹ / ₁₆ " | 90'-6 ¹ / ₄ " | 37'-1 ¹¹ / ₁₆ " | 34'-1 ⁹ / ₁₆ " | 78'-3 ⁹ / ₁₆ " | 58'-2 ¹¹ / ₁₆ " | 49'-2 ¹ / ₄ " | 134'-6 ¹ / ₈ " | 49'-2 ¹ / ₄ " | 60'-2 ³ / ₄ " | 93'-4 ⁵ / ₁₆ " | 51'-2 ⁵ / ₁₆ " | 49'-8 ¹ / ₄ " | 125'-2 ¹³ / ₁₆ " | 19'-1 ¹¹ / ₁₆ " | 16'-1 ⁹ / ₁₆ " | 34'-2 ¹¹ / ₁₆ " | 32'-2 ¹ / ₄ " | 38'-3" | 40'-3 ¹ / ₈ " | 32'-2 ¹ / ₄ " |

| STUD SPACING DIMENSIONS | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|--|-------|------------------|-------------------------------------|--------------------------------------|------------------|--------------------------------------|--------------------------------------|-----------------|--------------------------------------|-------------------------------------|--|-------------------------------------|--------------------------------------|-----------------|--------------------------------------|--------------------------------------|-----------------|--------------------------------------|-------------------------------------|--|--|--|
| GIRDER | S1 | S2 | S3 | S4 | S5 | S6 | S7 | S8 | S9 | S10 | S11 | S12 | S13 | S14 | S15 | S16 | S17 | S18 | S19 | S20 | | | |
| 1 | 20 SPA. @ 1'-1" | 1'-1" | 46 SPA. @ 1'-5" | 1'-8 ⁵ / ₁₆ " | 2'-3 ⁷ / ₁₆ " | 72 SPA. @ 0'-11" | 2'-3 ⁷ / ₁₆ " | 2'-6 ³ / ₁₆ " | 58 SPA. @ 1'-3" | 2'-6 ³ / ₁₆ " | 2'-1 ⁷ / ₈ " | 79 SPA. @ 1'-3 ¹ / ₂ " | 2'-1 ⁷ / ₈ " | 1'-11 ³ / ₁₆ " | 97 SPA. @ 1'-4" | 1'-11 ³ / ₁₆ " | 2'-2 ¹ / ₁₆ " | 78 SPA. @ 1'-4" | 2'-2 ¹ / ₁₆ " | 2'-2 ⁵ / ₈ " | | | |
| 2 | 49 SPA. @ 1'-1 ¹ / ₂ " | 7" | 39 SPA. @ 0'-10" | 1'-8 ⁷ / ₁₆ " | 2'-0 ¹³ / ₁₆ " | 80 SPA. @ 0'-10" | 2'-0 ¹³ / ₁₆ " | 2'-0 ³ / ₄ " | 52 SPA. @ 1'-5" | 2'-0 ³ / ₄ " | 2'-0 ¹ / ₄ " | 112 SPA. @ 0'-11" | 2'-0 ¹ / ₄ " | 2'-3 ³ / ₁₆ " | 86 SPA. @ 1'-6" | 2'-3 ³ / ₁₆ " | 1'-11 ³ / ₁₆ " | 74 SPA. @ 1'-5" | 1'-11 ³ / ₁₆ " | 2'-0 ¹ / ₂ " | | | |
| 3 | 49 SPA. @ 1'-1 ¹ / ₂ " | 7" | 39 SPA. @ 0'-10" | 2'-0 ¹ / ₈ " | 2'-2 ¹ / ₄ " | 80 SPA. @ 0'-10" | 2'-2 ¹ / ₄ " | 2'-2 ¹ / ₄ " | 52 SPA. @ 1'-5" | 2'-2 ¹ / ₄ " | 2'-2 ³ / ₈ " | 112 SPA. @ 0'-11" | 2'-2 ³ / ₈ " | 2'-6 ⁷ / ₁₆ " | 86 SPA. @ 1'-6" | 2'-6 ⁷ / ₁₆ " | 2'-1 ³ / ₈ " | 74 SPA. @ 1'-5" | 2'-1 ³ / ₈ " | 2'-2 ⁵ / ₁₆ " | | | |
| 4 | 20 SPA. @ 1'-1" | 1'-5" | 46 SPA. @ 1'-5" | 2'-3 ¹ / ₄ " | 2'-2 ¹ / ₈ " | 73 SPA. @ 0'-11" | 2'-2 ¹ / ₈ " | 2'-10 ³ / ₁₆ " | 58 SPA. @ 1'-3" | 2'-10 ³ / ₁₆ " | 2'-8 ³ / ₁₆ " | 79 SPA. @ 1'-3 ¹ / ₂ " | 2'-8 ³ / ₁₆ " | 2'-7 ¹ / ₁₆ " | 97 SPA. @ 1'-4" | 2'-7 ¹ / ₁₆ " | 2'-8 ¹ / ₂ " | 78 SPA. @ 1'-4" | 2'-8 ¹ / ₂ " | 2'-8 ¹ / ₈ " | | | |

| LIMITS OF TENSION FLANGES FOR CHARPY V-NOTCH TESTS | | | | | | | | | | | | | | | | |
|--|--------|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| GIRDER | T1 | T2 | T3 | T4 | T5 | T6 | T7 | T8 | T9 | T10 | T11 | T12 | T13 | T14 | T15 | T16 |
| 1 | 50'-0" | 168'-11 ³ / ₄ " | 0 | 58'-0" | 63'-0" | 86'-0" | 78'-0" | 61'-0" | 19'-0" | 21'-0" | 41'-0" | 32'-0" | 34'-0" | 44'-0" | 37'-0" | 32'-0" |
| 2 | 46'-0" | 50'-0" | 85'-0" | 55'-0" | 62'-0" | 85'-0" | 73'-0" | 58'-0" | 19'-0" | 25'-0" | 41'-0" | 35'-0" | 34'-0" | 45'-0" | 37'-0" | 32'-0" |
| 3 | 46'-0" | 52'-0" | 90'-0" | 55'-0" | 63'-0" | 88'-0" | 76'-0" | 58'-0" | 19'-0" | 25'-0" | 41'-0" | 35'-0" | 34'-0" | 45'-0" | 37'-0" | 32'-0" |
| 4 | 49'-0" | 170'-7 ³ / ₁₆ " | 0 | 58'-0" | 65'-0" | 93'-0" | 80'-0" | 60'-0" | 19'-0" | 24'-0" | 41'-0" | 33'-0" | 34'-0" | 45'-0" | 37'-0" | 32'-0" |

| GIRDER FLANGE WIDTHS | | | | | | | | |
|----------------------|--------|-----|-----|-----|-----|-----|-----|-----|
| GIRDER | FLANGE | W1 | W2 | W3 | W4 | W5 | W6 | W7 |
| 1 & 4 | TOP | 18" | 26" | 24" | 30" | 18" | 24" | 18" |
| | BOTTOM | 20" | 30" | 30" | 36" | 20" | 28" | 24" |
| 2 & 3 | TOP | 18" | 26" | 24" | 28" | 18" | 24" | 18" |
| | BOTTOM | 18" | 26" | 26" | 34" | 18" | 24" | 22" |

NOTE
SEE "SUPERSTRUCTURE GIRDER DETAILS,
UNIT 1" SHEET 1 OF 3 FOR NOTES.



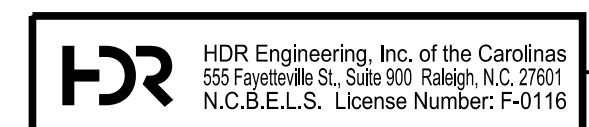
10/15/2021

PROJECT NO. U-2579AB
FORSYTH COUNTY
 STATION: 60+66.06 -Y15FLYAC-
 SHEET 2 OF 3

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

**SUPERSTRUCTURE
 GIRDER DETAILS
 UNIT 1**

| REVISIONS | | | | | | SHEET NO. |
|-----------|-----|-------|-----|-----|-------|------------------|
| NO. | BY: | DATE: | NO. | BY: | DATE: | NO. |
| 1 | -- | -- | 3 | -- | -- | TOTAL SHEETS 144 |
| 2 | -- | -- | 4 | -- | -- | |



DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

PLOT DRIVER: NCDOT... PENTABLE: NCDOT... USER: PPEIERSO... FILE: ...

| | | | |
|----------------------------|--------------------|---------------------------|--------------------|
| DES BY: <u>G. SCHMITZ</u> | DATE: <u>07/19</u> | DWG BY: <u>T. SAS</u> | DATE: <u>08/19</u> |
| DES CHK: <u>D. COLETTI</u> | DATE: <u>08/19</u> | CHK BY: <u>G. SCHMITZ</u> | DATE: <u>10/19</u> |