

| SPANS N, O AND P | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|-------|-------|-------|-------|-------|-------|--------|--------|---------|---------|--------|---------|---------|--------|--------|-------|-------|-------|-------|-------|-------|--|
| GIRDER 1 | TWENTIETH POINTS | 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 | 0.85 | 0.90 | 0.95 | 0.00 | |
| | CAMBER (GIRDER ALONE IN PLACE) (FT.) | 0.000 | 0.056 | 0.111 | 0.163 | 0.211 | 0.253 | 0.289 | 0.317 | 0.338 | 0.351 | 0.355 | 0.351 | 0.338 | 0.317 | 0.289 | 0.253 | 0.211 | 0.163 | 0.111 | 0.056 | 0.000 | |
| | * DEFLECTION DUE TO SUPERIMPOSED D.L. (FT.) | 0.000 | 0.038 | 0.076 | 0.114 | 0.148 | 0.179 | 0.205 | 0.225 | 0.240 | 0.249 | 0.253 | 0.249 | 0.240 | 0.225 | 0.205 | 0.179 | 0.148 | 0.114 | 0.076 | 0.038 | 0.000 | |
| | FINAL CAMBER (IN.) | 0 | 1/4" | 3/16" | 5/8" | 3/4" | 7/8" | 1" | 1 1/8" | 1 3/16" | 1 3/16" | 1 1/4" | 1 3/16" | 1 3/16" | 1 1/8" | 1" | 7/8" | 3/4" | 5/8" | 7/16" | 1/4" | 0 | |
| GIRDERS 2-4 | CAMBER (GIRDER ALONE IN PLACE) (FT.) | 0.000 | 0.057 | 0.112 | 0.164 | 0.212 | 0.255 | 0.291 | 0.320 | 0.340 | 0.353 | 0.357 | 0.353 | 0.340 | 0.320 | 0.291 | 0.255 | 0.212 | 0.164 | 0.112 | 0.057 | 0.000 | |
| | * DEFLECTION DUE TO SUPERIMPOSED D.L. (FT.) | 0.000 | 0.043 | 0.086 | 0.128 | 0.166 | 0.201 | 0.230 | 0.253 | 0.270 | 0.280 | 0.284 | 0.280 | 0.270 | 0.253 | 0.230 | 0.201 | 0.166 | 0.128 | 0.086 | 0.043 | 0.000 | |
| | FINAL CAMBER (IN.) | 0 | 3/16" | 5/16" | 7/16" | 9/16" | 5/8" | 3/4" | 13/16" | 7/8" | 7/8" | 7/8" | 7/8" | 7/8" | 13/16" | 3/4" | 5/8" | 9/16" | 7/16" | 5/16" | 3/16" | 0 | |
| GIRDER 5 | CAMBER (GIRDER ALONE IN PLACE) (FT.) | 0.000 | 0.057 | 0.113 | 0.165 | 0.213 | 0.256 | 0.292 | 0.321 | 0.342 | 0.355 | 0.359 | 0.355 | 0.342 | 0.321 | 0.292 | 0.256 | 0.213 | 0.165 | 0.113 | 0.057 | 0.000 | |
| | * DEFLECTION DUE TO SUPERIMPOSED D.L. (FT.) | 0.000 | 0.044 | 0.087 | 0.130 | 0.169 | 0.204 | 0.234 | 0.258 | 0.275 | 0.285 | 0.289 | 0.285 | 0.275 | 0.258 | 0.234 | 0.204 | 0.169 | 0.130 | 0.087 | 0.044 | 0.000 | |
| | FINAL CAMBER (IN.) | 0 | 3/16" | 5/16" | 7/16" | 1/2" | 5/8" | 11/16" | 3/4" | 13/16" | 13/16" | 7/8" | 13/16" | 13/16" | 3/4" | 11/16" | 5/8" | 1/2" | 7/16" | 5/16" | 3/16" | 0 | |

| SPANS Q THROUGH X | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|-------|-------|-------|-------|--------|---------|---------|---------|--------|----------|----------|----------|--------|---------|---------|---------|--------|-------|-------|-------|-------|--|
| GIRDER 1 | TWENTIETH POINTS | 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 | 0.85 | 0.90 | 0.95 | 0.00 | |
| | CAMBER (GIRDER ALONE IN PLACE) (FT.) | 0.000 | 0.056 | 0.111 | 0.163 | 0.211 | 0.253 | 0.289 | 0.317 | 0.338 | 0.351 | 0.355 | 0.351 | 0.338 | 0.317 | 0.289 | 0.253 | 0.211 | 0.163 | 0.111 | 0.056 | 0.000 | |
| | * DEFLECTION DUE TO SUPERIMPOSED D.L. (FT.) | 0.000 | 0.030 | 0.061 | 0.091 | 0.119 | 0.143 | 0.164 | 0.181 | 0.192 | 0.200 | 0.202 | 0.200 | 0.192 | 0.181 | 0.164 | 0.143 | 0.119 | 0.091 | 0.061 | 0.030 | 0.000 | |
| | FINAL CAMBER (IN.) | 0 | 5/16" | 5/8" | 7/8" | 1 1/8" | 1 5/16" | 1 1/2" | 1 5/8" | 1 3/4" | 1 13/16" | 1 13/16" | 1 13/16" | 1 3/4" | 1 5/8" | 1 1/2" | 1 5/16" | 1 1/8" | 7/8" | 5/8" | 5/16" | 0 | |
| GIRDERS 2-4 | CAMBER (GIRDER ALONE IN PLACE) (FT.) | 0.000 | 0.057 | 0.112 | 0.164 | 0.212 | 0.255 | 0.291 | 0.320 | 0.340 | 0.353 | 0.357 | 0.353 | 0.340 | 0.320 | 0.291 | 0.255 | 0.212 | 0.164 | 0.112 | 0.057 | 0.000 | |
| | * DEFLECTION DUE TO SUPERIMPOSED D.L. (FT.) | 0.000 | 0.039 | 0.079 | 0.117 | 0.152 | 0.184 | 0.210 | 0.232 | 0.247 | 0.256 | 0.260 | 0.256 | 0.247 | 0.232 | 0.210 | 0.184 | 0.152 | 0.117 | 0.079 | 0.039 | 0.000 | |
| | FINAL CAMBER (IN.) | 0 | 3/16" | 3/8" | 9/16" | 3/4" | 7/8" | 1 5/16" | 1 1/16" | 1 1/8" | 1 3/16" | 1 3/16" | 1 3/16" | 1 1/8" | 1 1/16" | 1 5/16" | 7/8" | 3/4" | 9/16" | 3/8" | 3/16" | 0 | |
| GIRDER 5 | CAMBER (GIRDER ALONE IN PLACE) (FT.) | 0.000 | 0.057 | 0.113 | 0.165 | 0.213 | 0.256 | 0.292 | 0.321 | 0.342 | 0.355 | 0.359 | 0.355 | 0.342 | 0.321 | 0.292 | 0.256 | 0.213 | 0.165 | 0.113 | 0.057 | 0.000 | |
| | * DEFLECTION DUE TO SUPERIMPOSED D.L. (FT.) | 0.000 | 0.042 | 0.085 | 0.126 | 0.165 | 0.199 | 0.228 | 0.250 | 0.267 | 0.277 | 0.281 | 0.277 | 0.267 | 0.250 | 0.228 | 0.199 | 0.165 | 0.126 | 0.085 | 0.042 | 0.000 | |
| | FINAL CAMBER (IN.) | 0 | 3/16" | 5/16" | 7/16" | 9/16" | 1 1/16" | 3/4" | 7/8" | 7/8" | 1 5/16" | 1 5/16" | 1 5/16" | 7/8" | 7/8" | 3/4" | 1 1/16" | 9/16" | 7/16" | 5/16" | 3/16" | 0 | |

| SPAN Y | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|-------|-------|-------|---------|---------|---------|---------|---------|--------|----------|----------|----------|--------|---------|---------|---------|---------|---------|-------|-------|-------|--|
| GIRDER 1 | TWENTIETH POINTS | 0.00 | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 | 0.85 | 0.90 | 0.95 | 0.00 | |
| | CAMBER (GIRDER ALONE IN PLACE) (FT.) | 0.000 | 0.055 | 0.109 | 0.160 | 0.206 | 0.248 | 0.282 | 0.311 | 0.331 | 0.343 | 0.347 | 0.343 | 0.331 | 0.311 | 0.282 | 0.248 | 0.206 | 0.160 | 0.109 | 0.055 | 0.000 | |
| | * DEFLECTION DUE TO SUPERIMPOSED D.L. (FT.) | 0.000 | 0.029 | 0.059 | 0.087 | 0.114 | 0.137 | 0.158 | 0.173 | 0.185 | 0.192 | 0.195 | 0.192 | 0.185 | 0.173 | 0.158 | 0.137 | 0.114 | 0.087 | 0.059 | 0.029 | 0.000 | |
| | FINAL CAMBER (IN.) | 0 | 5/16" | 5/8" | 7/8" | 1 1/8" | 1 5/16" | 1 1/2" | 1 5/8" | 1 3/4" | 1 13/16" | 1 13/16" | 1 13/16" | 1 3/4" | 1 5/8" | 1 1/2" | 1 5/16" | 1 1/8" | 7/8" | 5/8" | 5/16" | 0 | |
| GIRDERS 2-4 | CAMBER (GIRDER ALONE IN PLACE) (FT.) | 0.000 | 0.055 | 0.109 | 0.160 | 0.206 | 0.248 | 0.282 | 0.311 | 0.331 | 0.343 | 0.347 | 0.343 | 0.331 | 0.311 | 0.282 | 0.248 | 0.206 | 0.160 | 0.109 | 0.055 | 0.000 | |
| | * DEFLECTION DUE TO SUPERIMPOSED D.L. (FT.) | 0.000 | 0.030 | 0.061 | 0.091 | 0.119 | 0.144 | 0.165 | 0.181 | 0.193 | 0.201 | 0.203 | 0.201 | 0.193 | 0.181 | 0.165 | 0.144 | 0.119 | 0.091 | 0.061 | 0.030 | 0.000 | |
| | FINAL CAMBER (IN.) | 0 | 5/16" | 9/16" | 1 3/16" | 1 1/16" | 1 1/4" | 1 1/16" | 1 9/16" | 1 5/8" | 1 11/16" | 1 3/4" | 1 11/16" | 1 5/8" | 1 1/16" | 1 1/16" | 1 1/4" | 1 1/16" | 1 3/16" | 9/16" | 5/16" | 0 | |
| GIRDER 5 | CAMBER (GIRDER ALONE IN PLACE) (FT.) | 0.000 | 0.055 | 0.109 | 0.160 | 0.206 | 0.248 | 0.282 | 0.311 | 0.331 | 0.343 | 0.347 | 0.343 | 0.331 | 0.311 | 0.282 | 0.248 | 0.206 | 0.160 | 0.109 | 0.055 | 0.000 | |
| | * DEFLECTION DUE TO SUPERIMPOSED D.L. (FT.) | 0.000 | 0.028 | 0.056 | 0.183 | 0.109 | 0.131 | 0.150 | 0.166 | 0.177 | 0.183 | 0.186 | 0.183 | 0.177 | 0.166 | 0.150 | 0.131 | 0.109 | 0.183 | 0.056 | 0.028 | 0.000 | |
| | FINAL CAMBER (IN.) | 0 | 5/16" | 5/8" | 1 5/16" | 1 3/16" | 1 3/8" | 1 9/16" | 1 3/4" | 1 7/8" | 1 15/16" | 1 15/16" | 1 15/16" | 1 7/8" | 1 3/4" | 1 9/16" | 1 3/8" | 1 3/16" | 1 5/16" | 5/8" | 5/16" | 0 | |

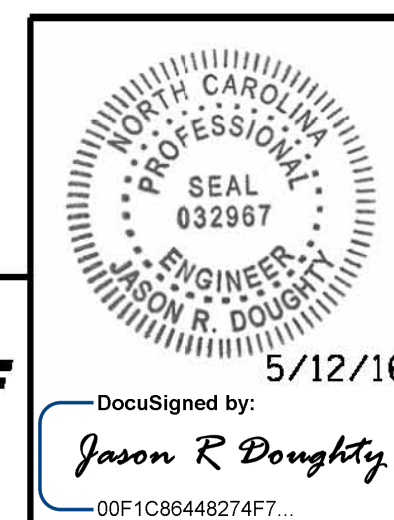
* INCLUDES FUTURE WEARING SURFACE

PROJECT NO. B-4929
PENDER COUNTY
 STATION: 38+13.81 -L2-

5/10/2016
 400_203_B4929_SMU_DL 78_01.dgn

DESIGNED BY: B. LOFLIN DATE: FEB 2016
 DRAWN BY: M. HOBBS DATE: FEB 2016
 CHECKED BY: J. SHERMAN DATE: FEB 2016
 DESIGN ENGINEER OF RECORD: J. DOUGHTY DATE: MAY 2016

PARSONS BRINCKERHOFF
 434 FAYETTEVILLE STREET
 SUITE 1500
 RALEIGH, NC 27601
 LICENSE NO. F-0165



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SUPERSTRUCTURE
 DEAD LOAD DEFLECTIONS
 78" F.I.B. GIRDERS

5/12/16

DocuSigned by:
 Jason R. Doughty
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| REVISIONS | | | | | | SHEET NO. |
|-----------|-----|-------|-----|-----|-------|------------------|
| NO. | BY: | DATE: | NO. | BY: | DATE: | |
| 1 | | | 3 | | | S-103 |
| 2 | | | 4 | | | TOTAL SHEETS 278 |

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED