

NOTES

ANGLES SHALL CONFORM TO AASHTO M270 GRADE 250 STEEL OR APPROVED EQUAL. ALL STUD ANCHORS SHALL CONFORM TO AASHTO M169 GRADES 1010 THRU 1020 OR APPROVED EQUAL.

STUD ANCHORS SHALL BE SHOP WELDED AND ALL HOLES SHALL BE SHOP DRILLED AS SHOWN ON THE PLANS. STUD ANCHORS SHALL BE ELECTRIC ARC END WELDED WITH COMPLETE FUSION.

UPON COMPLETION OF SHOP FABRICATION, THE ENTIRE ANCHOR ASSEMBLY SHALL BE METALLIZED TO A MINIMUM THICKNESS OF 0.150mm. THE 12.70mm Ø STUD ANCHORS AND ANCHOR TABS NEED NOT BE METALLIZED. SEE SPECIAL PROVISION FOR THERMAL SPRAYED COATINGS (METALLIZATION).

ANCHOR ASSEMBLY SHALL BE MADE CONTINUOUS THE LENGTH OF THE JOINT FROM GUTTER TO GUTTER. FOR FIELD SPLICES AT ALL CROWN BREAK POINTS, THE ENDS OF THE STEEL ANGLES SHALL BE CUT PARALLEL TO THE BRIDGE CENTERLINE. FINISHED FIELD WELDS SHALL BE GRIND SMOOTH AND COATED WITH A MINIMUM THICKNESS OF 0.100mm OF ZINC-RICH PAINT IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

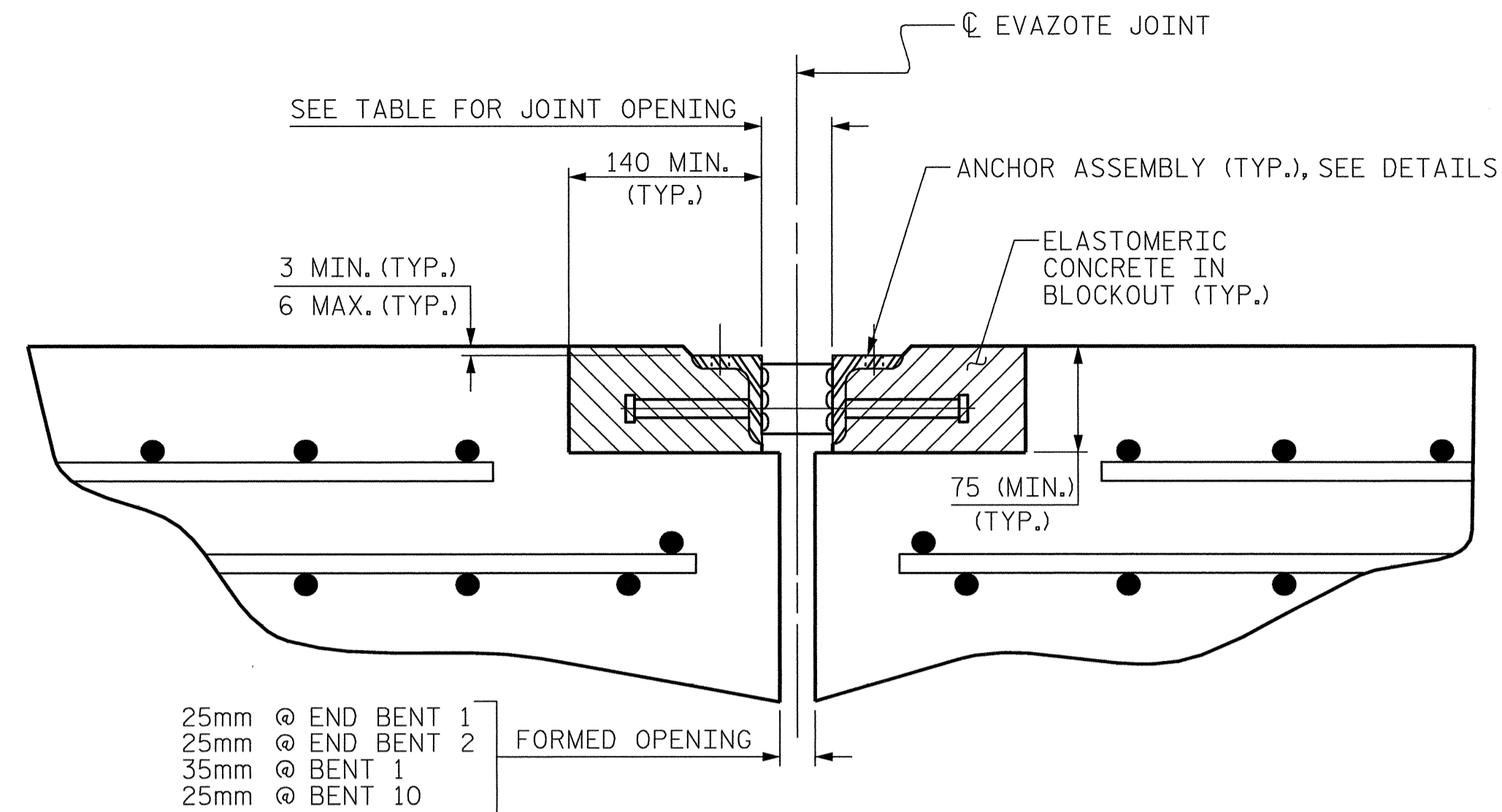
ANCHOR ASSEMBLY SEGMENTS SHALL NOT BE LESS 3.6m NOR MORE THAN 6.1m IN LENGTH. SHORTER SEGMENTS MAY BE USED AT THE EDGE OF ROADWAY OR AT POINTS OF STAGED CONSTRUCTION.

THE ANCHOR ASSEMBLY SHALL BE SECURED AND LEVELED AS SHOWN IN THE "ARMORED JOINT ANCHOR ASSEMBLY DETAILS". NO SUBMITTALS ARE REQUIRED FOR 9.53mm Ø EXPANSION ANCHORS, NUTS OR WASHERS. THE CONTRACTOR MAY SUBMIT FOR APPROVAL AN ALTERNATE METHOD OF ALIGNING AND LEVELING THE ANGLES. THE ALTERNATE METHOD SHALL NOT INCLUDE ANY WELDING TO THE OUTSIDE FACE OF THE ANGLES.

AFTER THE ELASTOMERIC CONCRETE HAS BEEN CAST ON BOTH SIDES OF THE JOINT, REMOVE ANY EXCESS CONCRETE THAT COMES THROUGH THE WEEP HOLES AND THOROUGHLY CLEAN THE ANGLES. ANY DAMAGED STEEL SHALL BE COATED WITH A MINIMUM OF 0.100mm OF ZINC-RICH PAINT IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

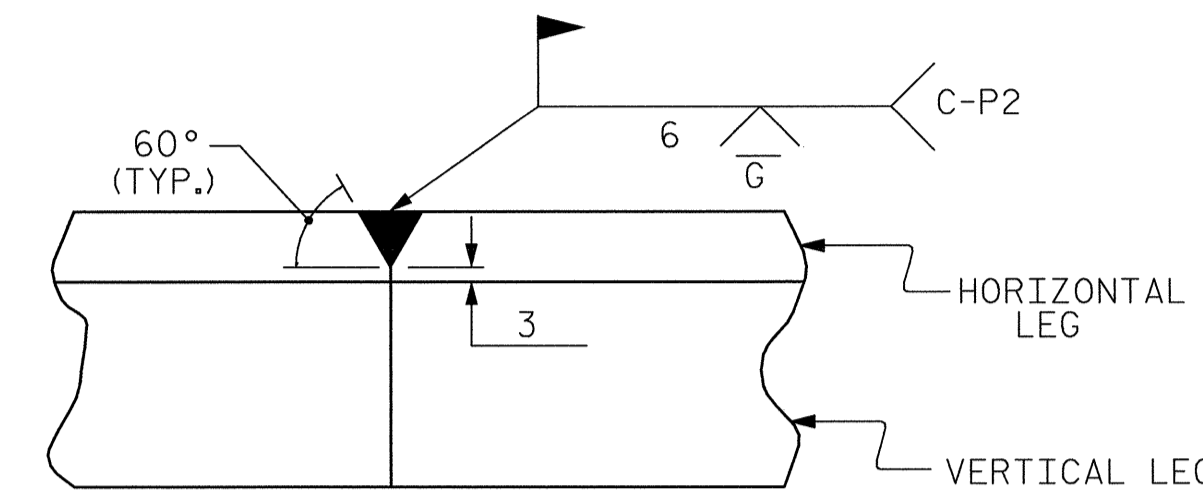
SEE SPECIAL PROVISIONS FOR EVAZOTE JOINT SEALS.

SEE SPECIAL PROVISIONS FOR ELASTOMERIC CONCRETE.

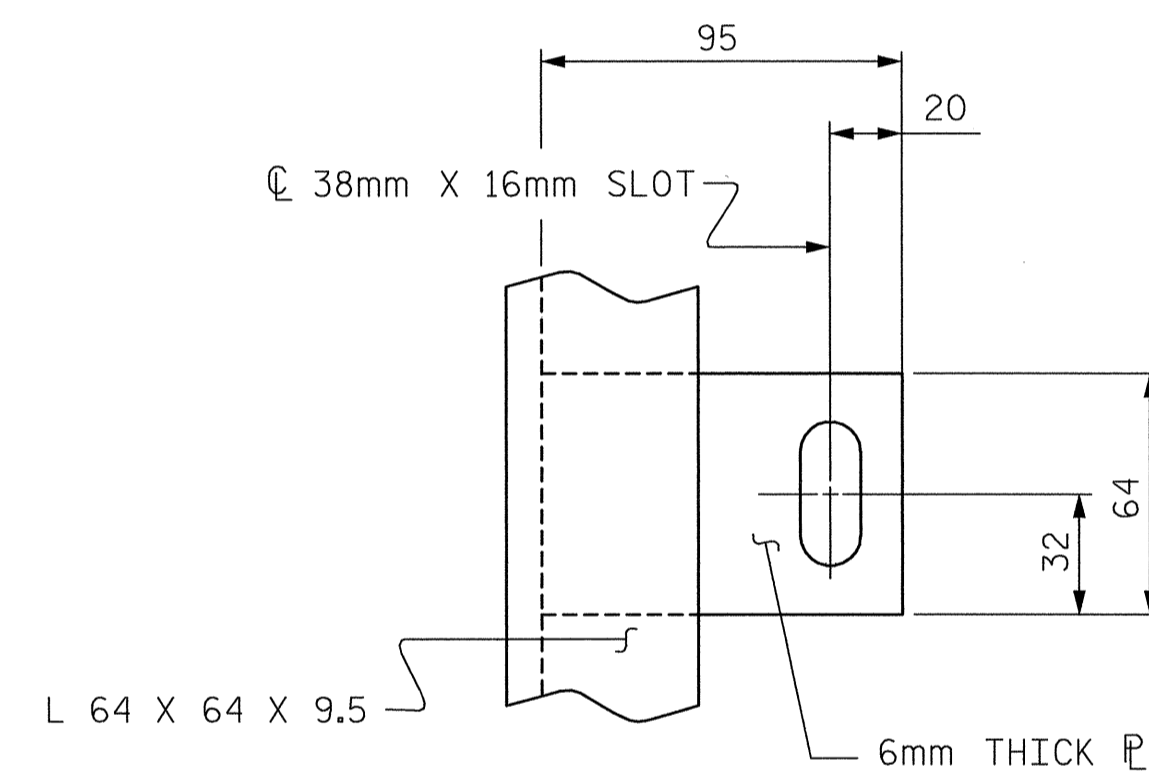


ARMORED JOINT DETAILS

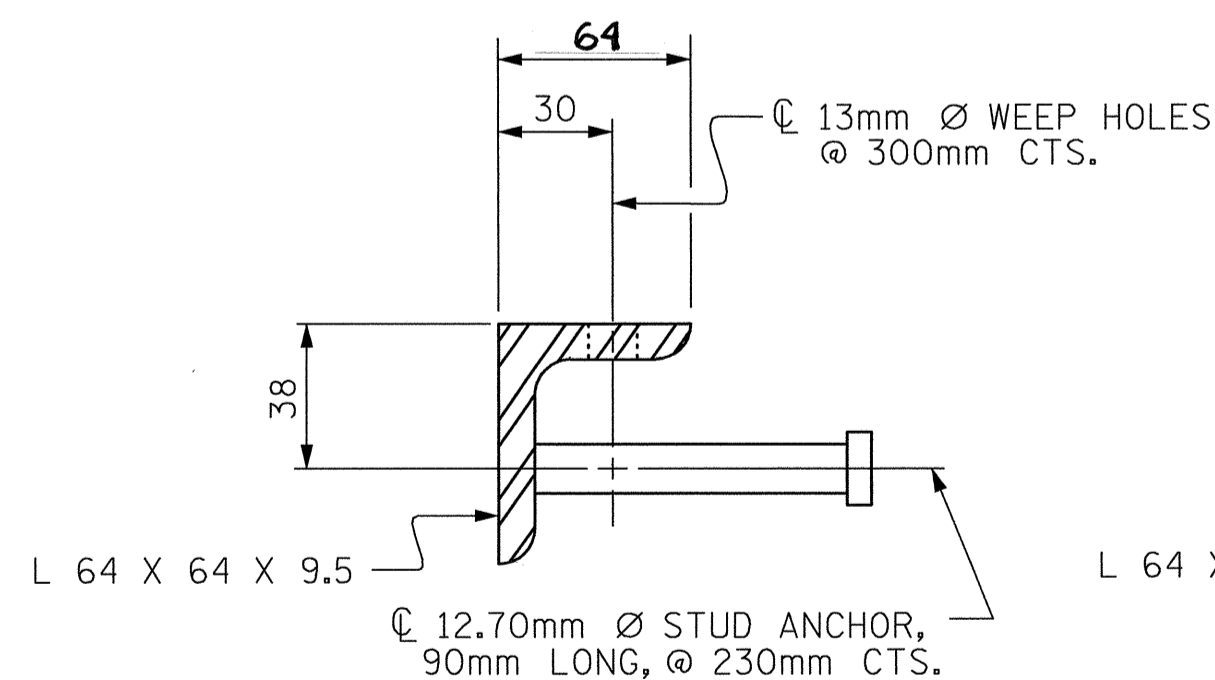
SECTION NORMAL TO JOINT AT END BENT OR BENT



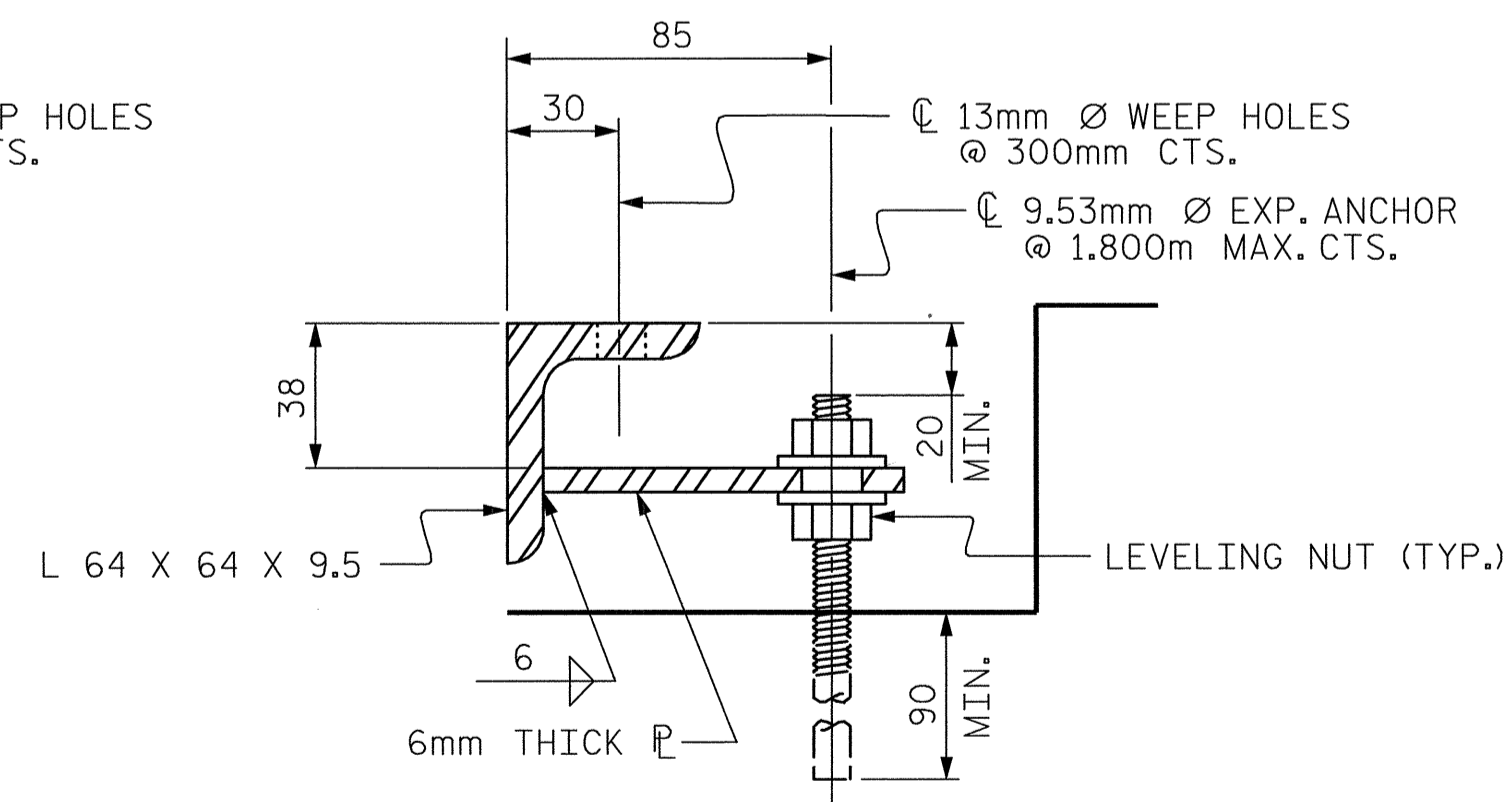
DETAIL- FIELD WELD SPLICE OF ANGLE



PLAN VIEW OF TAB



SECTION VIEW OF STUD



SECTION VIEW OF TAB

ARMORED JOINT ANCHOR ASSEMBLY DETAILS

| MOVEMENT AND SETTING AT EVAZOTE JOINT |               |                                 |                               |                                     |                                      |                                      |
|---------------------------------------|---------------|---------------------------------|-------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|
| END BENT NO.                          | SKEW ANGLE    | NOMINAL UNCOMPRESSED SEAL WIDTH | TOTAL MOVEMENT (ALONG C RDWY) | PERPENDICULAR JOINT OPENING AT 7° C | PERPENDICULAR JOINT OPENING AT 16° C | PERPENDICULAR JOINT OPENING AT 32° C |
| 1                                     | * 62°46'46"   | 64mm                            | 00mm                          | 51mm                                | 51mm                                 | 51mm                                 |
| 2                                     | ** 57°22'46"  | 64mm                            | 00mm                          | 51mm                                | 51mm                                 | 51mm                                 |
| BENT NO.                              | SKEW ANGLE    | NOMINAL UNCOMPRESSED SEAL WIDTH | TOTAL MOVEMENT (ALONG C RDWY) | PERPENDICULAR JOINT OPENING AT 7° C | PERPENDICULAR JOINT OPENING AT 16° C | PERPENDICULAR JOINT OPENING AT 32° C |
| 1                                     | *** 62°16'56" | 80mm                            | 35mm                          | 70mm                                | 64mm                                 | 53mm                                 |
| 10                                    | *** 57°22'46" | 64mm                            | 29mm                          | 59mm                                | 51mm                                 | 37mm                                 |

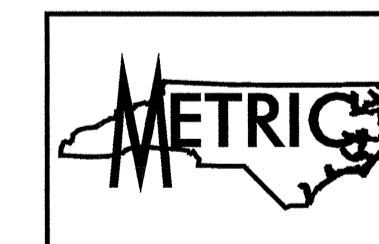
TOTAL MOVEMENT IS CALCULATED ALONG THE CENTERLINE OF ROADWAY. JOINT OPENINGS ARE MEASURED PERPENDICULAR TO THE JOINT.

- \* MEASURED AT SHORT CHORD OF SPAN 'A'
- \*\* MEASURED AT SHORT CHORD OF SPAN 'K'
- \*\*\* MEASURED AT SHORT CHORD OF SPAN 'B'
- \*\*\*\* MEASURED AT SHORT CHORD OF SPAN 'J'

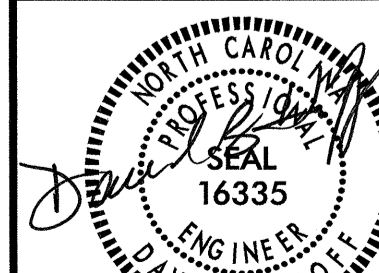
| MOVEMENT AND SETTING AT OPTIONAL COMPRESSION JOINT |            |                                 |                               |                                     |                                      |                                      |
|--|------------|---------------------------------|-------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|
| END BENT NO.                                       | SKEW ANGLE | NOMINAL UNCOMPRESSED SEAL WIDTH | TOTAL MOVEMENT (ALONG C RDWY) | PERPENDICULAR JOINT OPENING AT 0° C | PERPENDICULAR JOINT OPENING AT 16° C | PERPENDICULAR JOINT OPENING AT 32° C |
|  |            |                                 |                               |                                     |                                      |                                      |

| BILL OF MATERIAL |                                |                           |
|------------------|--------------------------------|---------------------------|
| END BENT NO.     | ELASTOMERIC CONCRETE * (CU. m) | TOTAL LENGTH OF ANGLE (m) |
| 1                | .3                             | 26.9                      |
| 2                | .3                             | 28.5                      |
| BENT NO.         | ELASTOMERIC CONCRETE * (CU. m) | TOTAL LENGTH OF ANGLE (m) |
| 1                | .3                             | 27.0                      |

\* BASED ON THE MINIMUM BLOCKOUT SHOWN.



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PROJECT NO. R-252AB  
JOHNSTON COUNTY  
STATION: 40+80.000 -L- P.O.C.

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

DWG. NO. 32 TOTAL 68

SHEET NO. S-291  
TOTAL SHEETS 429