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 GROUND 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.

	MOVEMENT AND SETTING AT EVAZOTE JOINT					
END BENT NO.	SKEW ANGLE	NOMINAL UNCOMPRESSED SEAL WIDTH	TOTAL MOVEMENT (ALONG & RDWY)	PERPENDICULAR JOINT OPENING AT 7° C	PERPENDICULAR JOINT OPENING AT 16° C	PERPENDICULAR JOINT OPENING AT 32° C
1	* 62°30′55′′	64mm	OOmm	51mm	51mm	51mm
2	** 57°38′42′′	64mm	OOmm	51mm	51mm	51mm
BENT NO.	SKEW ANGLE	NOMINAL UNCOMPRESSED SEAL WIDTH	TOTAL MOVEMENT (ALONG & RDWY)	PERPENDICULAR JOINT OPENING AT 7° C	PERPENDICULAR JOINT OPENING AT 16° C	PERPENDICULAR JOINT OPENING AT 32° C
1	***62°00′50′′	87mm	42mm	79mm	67mm	46mm
9	****57°38′42′′	87mm	36mm	80mm	70mm	52mm

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

\* MEASURED AT SHORT CHORD OF SPAN 'A'

└─HORIZONTAL

- VERTICAL LEG

\*\* MEASURED AT SHORT CHORD OF SPAN 'J'

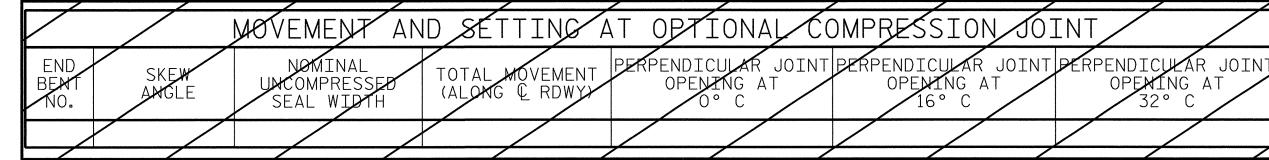
\*\*\* MEASURED AT SHORT CHORD OF SPAN 'B'

F				/	/			_	
	***	MEASURED	ΑT	SHORT	CHORD	OF	SPAN	`I'	

(TYP.)

DETAIL- FIELD WELD

SPLICE OF ANGLE



	BILL OF	MATERIAL
END BENT NO.	ELASTOMERIC CONCRETE * (CU.m)	TOTAL LENGTH OF ANGLE ( m)
1 2	.3 .3	27.0 28.5
BENT NO.	ELASTOMERIC CONCRETE * (CU.m)	TOTAL LENGTH OF ANGLE ( m)
1	.3	27.1
9	.3	28.4

\* BASED ON THE MINIMUM BLOCKOUT SHOWN.



DWG. NO.

PROJECT NO. **JOHNSTON** COUNTY STATION: 40+96.000 -L- P.O.C.

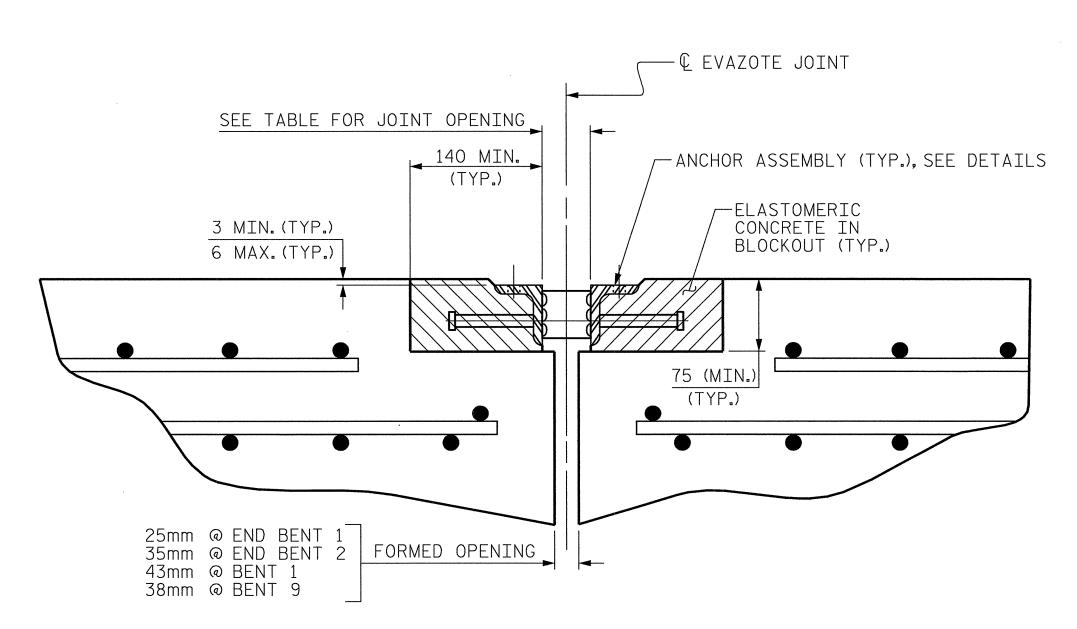
R-2552AB

TRANSYSTEMS CORPORATION 75 Beattle Place, Sulte 400 Greenville, SC 29601 (864) 234-0866

TOTAL

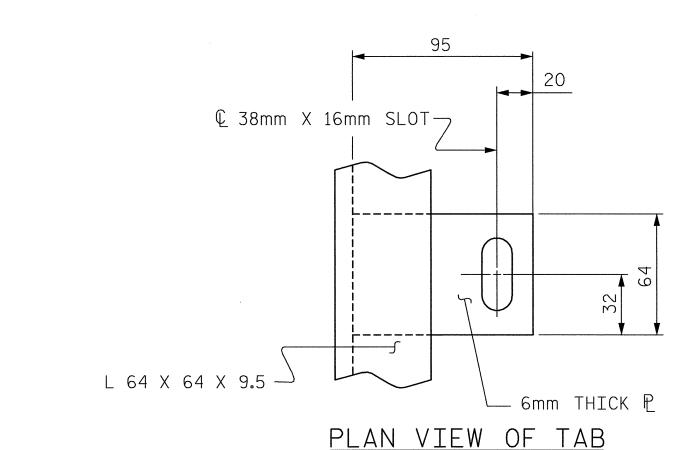
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD ARMORED EVAZOTE JOINT DETAILS (RIGHT LANE)

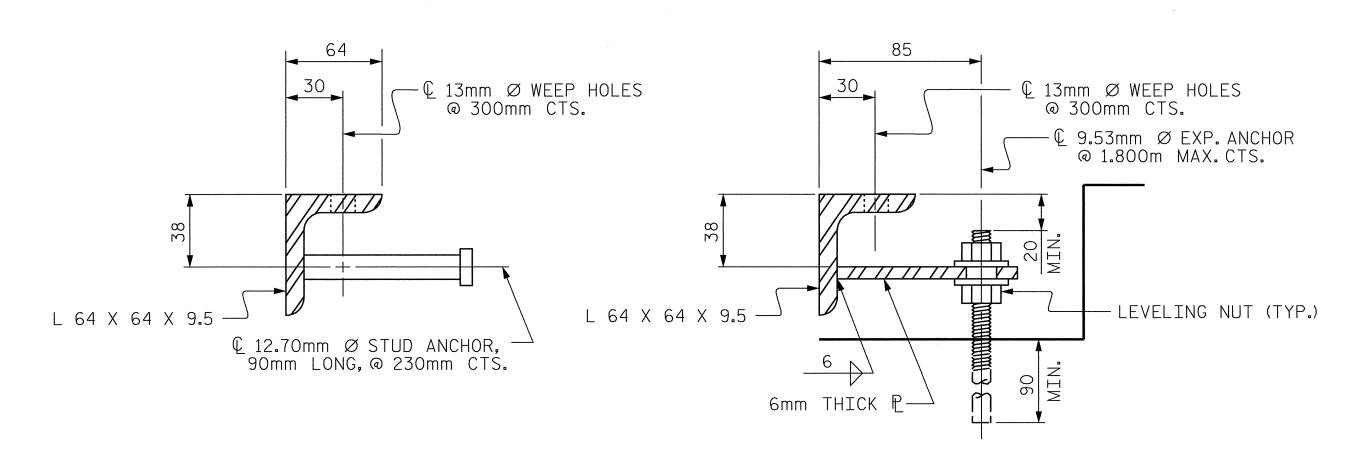
SHEET NO REVISIONS DATE: DATE: 5-361 BY: TOTAL SHEETS 429



## ARMORED JOINT DETAILS

SECTION NORMAL TO JOINT AT END BENT OR BENT





SECTION VIEW OF STUD

SECTION VIEW OF TAB

## ARMORED JOINT ANCHOR ASSEMBLY DETAILS

ASSEMBLED BY : M.T.BELISLI CHECKED BY : D.B.HOFF	E DATE: 1/02 DATE: 1/02
IDRAWN BY E FFM 1/96	REV. 8/16/99 MAB/RDR REV. 10/17/00 RWW/LES REV. 7/10/01 LES/RDR