

QUANTITIES	
CALC. BY:	DATE:

OUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION

									EACH COLLAR]		
EXISTING BOX									CONCRETE	CONCRETE REINFORCEMENT BARS			EXPAN. BOLTS		
		θ	Α	В	С	D	E	+	CU. YD. (m ³)	G	L	KG(LBS.)	EACH		
W	Н														
	EXISTI W	EXISTING BOX W H	- Θ	-	 Ө А В	<u> </u>	Θ A B C D		—————————————————————————————————————	EXISTING BOX O A B C CONCRETE CONCRETE CUL YD. (m ³)	EXISTING BOX Output Output	EXISTING BOX Output Output	EXISTING BOX Output Output		

- 2. Expansion bolts shall consist of approved expansion anchors, and 3/4 (M20) hook bolts which conform to section 1006.09. These bolts shall extend at least 8(200) into the new concrete.
- 3. This work will be paid for by the cubic yard (cubic meter) for CONCRETE COLLAR, by the pound (kg) for REINFORCEMENT BARS, and by Each for EXPANSION BOLTS of the size indicated.

All dimensions are in inches (millimeters) unless otherwise noted.

	01-01-97 RENUM. J-11.03, NEW REVISION BOX, REVISED	1.2.	•			RTE	Ė. SECTION	COUNTY SHEETS	, NO.
L	TITLE BOX, ADDED QUANTITY CALCULATION BOX			STATE OF ILLINOIS	SKEWED PIPE CULVERT EXTENSION COLLAR (WITH END SECTION)				
	10-16-06 REVISED TO 2007 SPEC.	M.A.		DEPARTMENT OF TRANSPORTATION				CONTRACT NO.	\neg
	2-15-11 CHANGED REBAR DETAIL	R.D.	.		NOT TO SCALE CADD STD. 542011	·D4 FED.	. ROAD DIST. NO. ILLINOIS FED.	AID PROJECT	