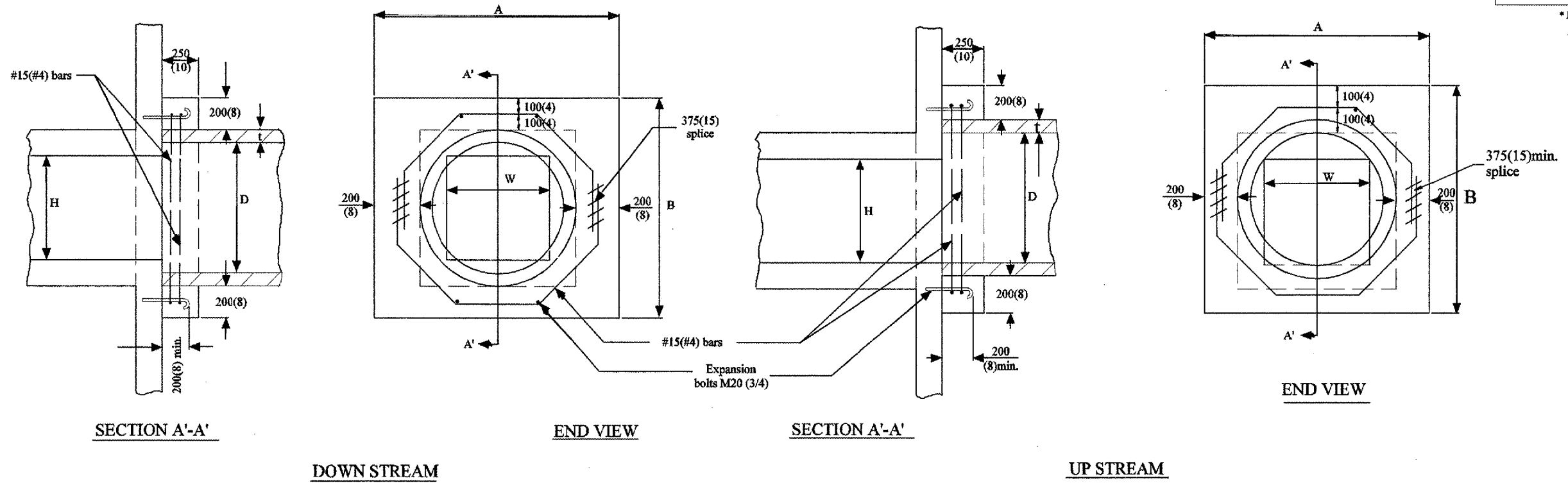
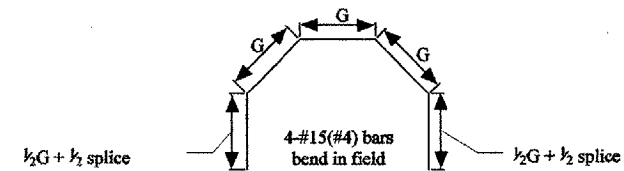


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	*	McDonough / Fulton	58	51
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* D4 CULV EXT/ REPAIR 2006				



EXISTING BOX		A	B	D	t	EACH COLLAR				
W	H					CONC. COLLAR m(CU. YD.)	REINFORCEMENT BARS g	L	KG(LBS.)	EXPANSION BOLT EACH
300(12)	PIPE	810 (32)	810 (32)	300 (12)	50(2)	0.14(0.18)	254 (10)	1.40m (4'-7")	9(12)	4
450(18)	PIPE	990 (39)	990 (39)	450 (18)	65(2½)	0.18(0.24)	324 (12 ¾)	1.68m (5'-6")	11(15)	4
600(24)	PIPE	1.17m (3'-10")	1.17m (3'-10")	600 (24)	75(3)	0.23(0.30)	400 (15 ¾)	1.98m (6'-6")	12(17)	4
600(24)	600(24)	1.35m (4'-5")	1.35m (4'-5")	750 (30)	90(3½)	0.28(0.37)	416 (18 ¾)	2.29m (7'-6")	14(20)	4
750(30)	750(30)	1.52m (5'-0")	1.52m (5'-0")	900 (36)	100(4)	0.34(0.45)	546 (21 ½)	2.57m (8'-5")	16(22)	8
900(36)	900(36)	1.7m (5'-7")	1.7m (5'-7")	1050 (42)	115(4½)	0.38(0.50)	622 (24 ¾)	2.87m (9'-5")	18(25)	10
1050(42)	1050(42)	1.88m (6'-2")	1.88m (6'-2")	1200 (48)	125(5)	0.47(0.61)	692 (27 ¼)	3.15m (10'-4")	20(28)	10
1200(48)	1200(48)	2.06m (6'-9")	2.06m (6'-9")	1350 (54)	140(5½)	0.61(0.80)	768 (30 ¾)	3.45m (11'-4")	22(30)	10



GENERAL NOTES

1. The collar shall be constructed entirely of CLASS SI CONCRETE and in accordance with the applicable portions of Section 503 of the Standard Specifications. Reinforcement Bars shall conform to Section 508.
2. Expansion Bolts shall consist of approved Expansion Anchors, and M20 (¾) hook bolts which conform to section 1006.09. These Bolts shall extend at least 200(8) into the new Concrete.

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

QUANTITIES	
CALC. BY:	DATE:
CHECKED BY:	DATE:
QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION	

DATE	REVISIONS	BY
1-1-97	REVISION 1-11.02, NEW REVISION BOX, REVISED TITLE BOX, ADDED QUANTITY CALCULATION BOX.	T.P.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD
PIPE CULVERT EXTENSION COLLAR
(WITH END SECTION)

CADD STD. NO. 542001-D4
SCALE: NOT DRAWN TO SCALE

DRAWN BY CADD
CHECKED BY