SCHEDULE OF QUANTITIES

	DIMEN	SIONS	ι) Bar	h Bar	CONCRETE COLLAR	REINF. BARS	EXP. BOLTS	
STATION	х	Y	No.	Length	No.	Cu. Yd	LBS	No.	
STA. 575+80 (RT)	4′-8″	2'-2"	4	9'-0"	12	1.02	42.9		
STA, 576+07.15 (LT)	2'-8" 11'	11"	4	4'-6"	8	0.82	24.7		
		······································						W	
	Ail h Bai	rs 450 (18	Long		Total	1.84	67.6		

−U Bar

PLAN OF CULVERT WITH ANGLED WING WALLS

lacksquare

CLEAR SPAN (S)

19(3/4)ØEXP.

BOLTS

FRONT

(SEE TABLE FOR SPACING)

lacksquare

No. 15 (No. 4) h Bars at 300 (12)

Cts. Each Side

h Bar

lacksquare

•

No. 15 (No. 4) h Bars at 300 (12) Cts. (TOP ONLY)

(Concrete Removal) Concrete Wingwall

PROPOSED PIPE OR -

U OR UI BARS

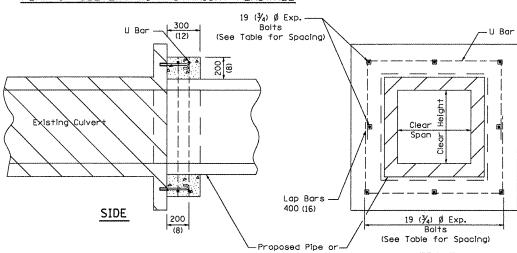
h BARS

LAP BARS

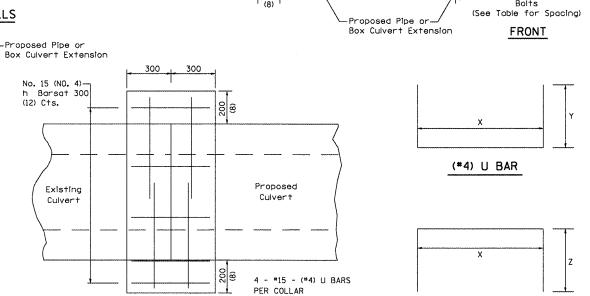
400 (16)

BOX CULVERT EXTENSION

Existing Box Quiver 200 (8) -Existing Headwall -19 (¾) Ø Exp. Boits (See Table for Spacing) Proposed Pipe or Box Culvert Extension



PLAN OF CULVERT WITH STRAIGHT HEADWALL



(#4) U1 BAR

General Notes

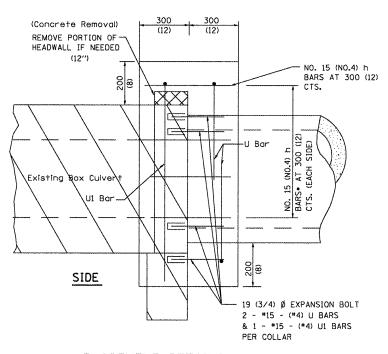
CONCRETE COLLARS SHALL BE CONSTRUCTED OF CLASS SI CONCRETE IN ACCORDANCE WITH SECTION 503 OF THE STANDARD SPECIFICATIONS.

REINFORCEMENT BARS SHALL CONFORM TO SECTION 508 OF THE STANDARD SPECIFICATIONS.

THE CONCRETE WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR CONCRETE COLLAR. REINFORCEMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER POUND FOR REINFORCEMENT BARS. EXPANSION BOLTS, WHEN REQUIRED, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR EXPANSION BOLTS OF THE SIZE INDICATED, WHICH PRICE SHALL INCLUDE FURNISHING, DRILLING HOLES, AND INSTALLING THE EXPANSION BOLTS COMPLETE IN PLACE. THESE BOLTS SHALL EXTEND AT LEAST 8 INCHES INTO THE NEW CONCRETE.

ONCE THE CONSTRUCTION OF THE PRECAST REINFORCED CONCRETE FLARED END SECTIONS ARE COMPLETED, BACK FILL IS REQUIRED AROUND THE END SECTIONS TO HAVE CONSISTENT GRADE WHICH MATCHES THE SURROUNDING CONDITIONS. THIS WORK SHALL BE APPROVED BY THE ENGINEER,

THE CONTRACTOR MAY BE REQUIRED TO REMOVE BRUSH AND TREES TO CONSTRUCT THE P.R.C.F.E.S EXTENSIONS. THE PRICE SHALL BE INCLUDED IN THE PRICE PER EACH FOR PRECAST REINFORCED CONCRETE FLARED END SECTIONS OF THE TYPE SPECIFIED.



PLACEMENT DETAILS FOR EXPANSION BOLTS

	NUMBER OF EXPANSION BOLTS REQUIRED PER SIDE									
H OR \$	EXTENSIONS	< 4.57m (15')	EXTENSIONS > 4.57m (15'							
	NUMBER	SPACING	NUMBER	SPACING						
600 (24)	*		*							
750 (30)	2	450 (18)	2	450 (18)						
900 (36)	2	600 (24)	. 2	600 (24)						
1200 (48)	3	3 450 (18) 3		450 (18)						
1500 (60)	4	400 (16)	3	600 (24)						
1800 (72)	5	375 (15)	4	500 (20)						
2100 (84)	5	450 (18)	4	600 (24)						
2400 (96)	6	375 (15)	5	525 (21)						
2700 (108)	6	475 (19)	5	600 (24)						
3000 (120)	7	450 (18)	6	525 (21)						
3300 (132)	8	425 (17)	6	600 (24)						
3600 (144)	8	475 (19)	7	550 (22)						

COUNTY SHEETS NO.

MARION 27 24

CONTRACT NO. 76B76

SECTION

(24,25)RS-3

F.A.P. 322

• MINIMUM ONE PER SIDE

FILE NAME =	USER NAME = #USER#	DESIGNED -		REVISED	-							
\$FILEL\$		DRAWN -		REVISED	-	 STATE OF ILLINOIS		CO	NCRE	TE COLL	AR DETAIL	
	PLOT SCALE = \$SCALE\$	CHECKED -		REVISED	-	 DEPARTMENT OF TRANSPORTATION						
	PLOT DATE = *DATE*	DATE -	******	REVISED	-		SCALE:	SHEET NO. 2	24 OF	27 SHEET	S STA.	TO STA

CULVERT CONNECTION WITHOUT EXISTING HEADWALL