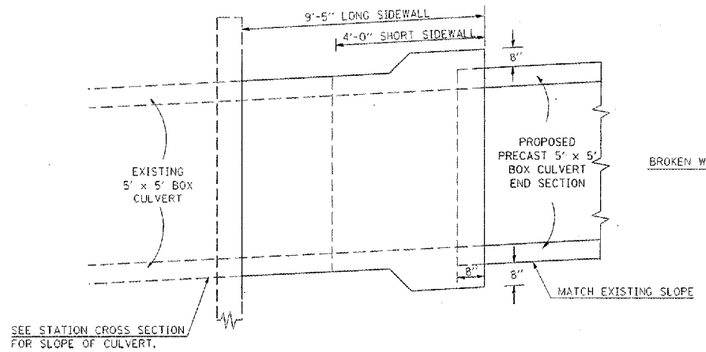
CONTRACT NO. 98924

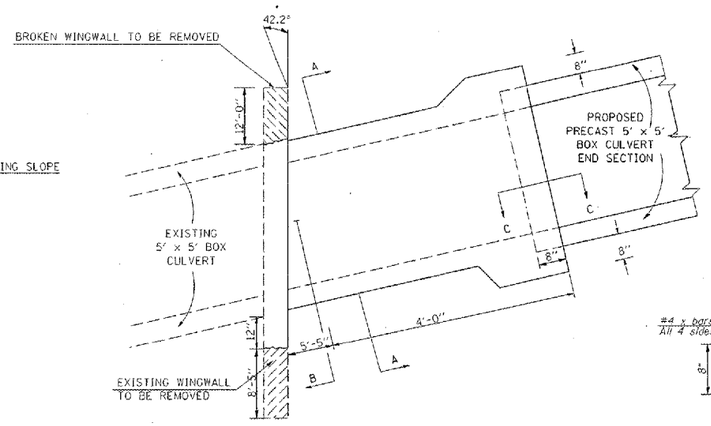
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VARIOUS	23	12

* D-9 CONT. MAINT. FY 06-3

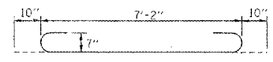
CAST-IN-PLACE CONCRETE COLLAR FOR PRECAST BOX CULVERTS STA. 752+80 RT SIDE



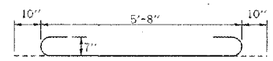
SIDE VIEW
DIMENSIONS SHOWN



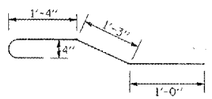
TOP VIEW
DIMENSIONS SHOWN



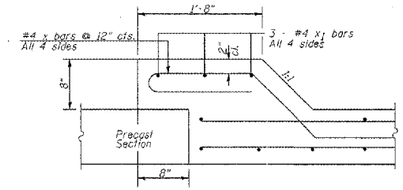
BAR a_1



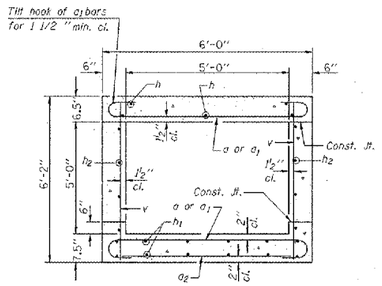
BAR a



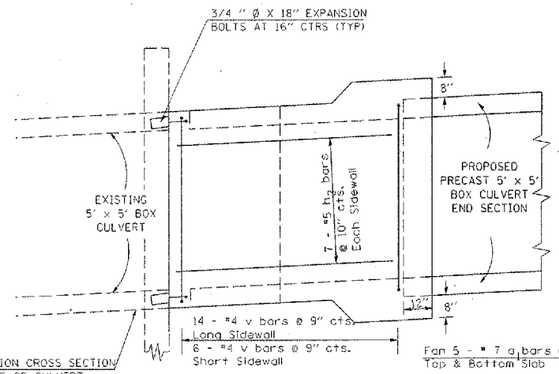
BAR x



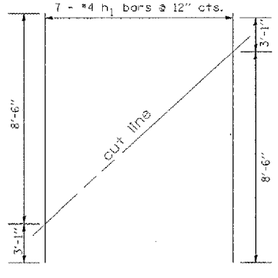
SECTION C-C



SECTION A-A

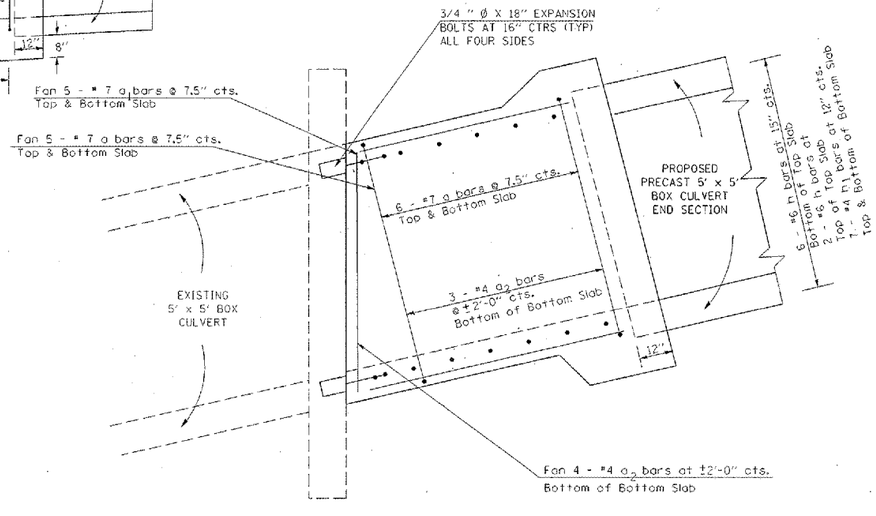


SIDE VIEW
REINFORCEMENT SHOWN

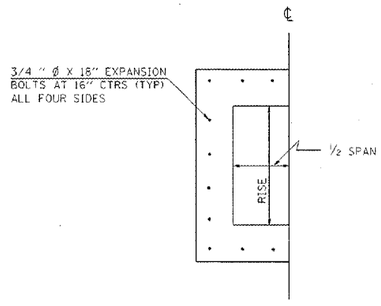


FIELD CUTTING DIAGRAM

Order h_1 bars full length. Cut as shown and use remainder of bars in opposite face.



TOP VIEW
REINFORCEMENT SHOWN



SECTION B-B

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	22	#7	7'-4"	C
a_1	10	#7	8'-10"	C
a_2	7	#4	7'-8"	—
h	8	#6	8'-6"	—
h_1	7	#4	11'-7"	—
h_2	7	#5	11'-7"	—
x	30	#4	5'-3"	S
x_1	12	#4	7'-0"	—
v	20	#4	5'-10"	—
Expansion Bolts ¾"			Each	22
Concrete Box Culverts			Cu. Yd.	3.79
Reinforcement Bars			Pound	1030

Cut a_2, h, h_1, and h_2 bars in the field to fit.

NOTES:

ANCHOR BOLTS, MEETING THE REQUIREMENTS OF ARTICLE 1006.09 OF THE STANDARD SPECIFICATIONS, SHALL EXTEND A MINIMUM OF 9 INCHES INTO THE NEW CONCRETE. EXPANSION SHIELDS SHALL PROVIDE A MINIMUM CERTIFIED PROOF LOAD OF 4080 POUNDS.

THE REMOVAL OF SUCH PORTIONS OF THE EXISTING HEADWALLS AND WINGWALLS AS MAY BE REQUIRED SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PRECAST CONCRETE BOX CULVERTS. CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

PROPOSED PRECAST BOX CULVERT END SECTION SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF THE CAST-IN-PLACE CONCRETE COLLAR.

PLOT DATE = 2/2/2006
FILE NAME = c:\projects\...\d902905m02.mcd
PLOT SCALE = 10'-4682" / IN.
USER NAME = coleww

CONCRETE COLLAR FOR PRECAST BOX CULVERT DETAIL RT – LOCATION #4