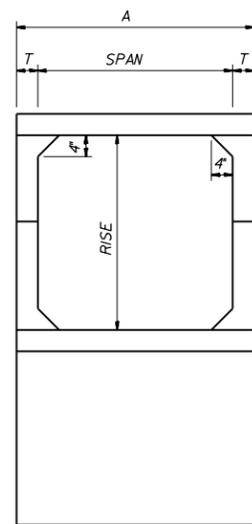
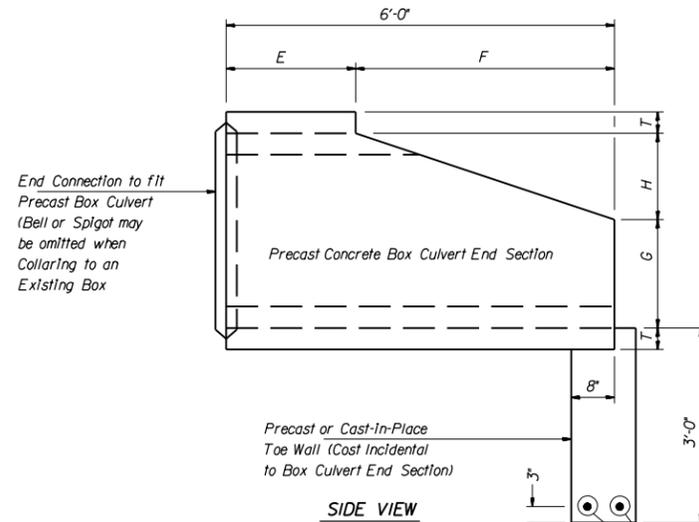
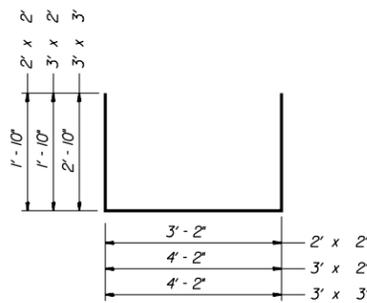


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	435
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NOTE:  
Expansion Bolts shall consist of self drilling expansion shields and 3/4" diameter hooked bolts. Hooked bolts shall extend a minimum distance as specified, 9" or 18" into the new concrete. Minimum certified proof load = 4080 lbs.

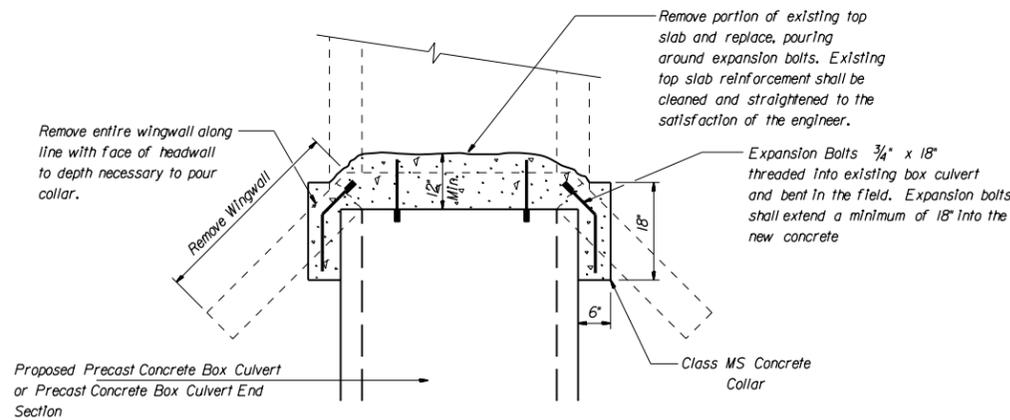


END VIEW

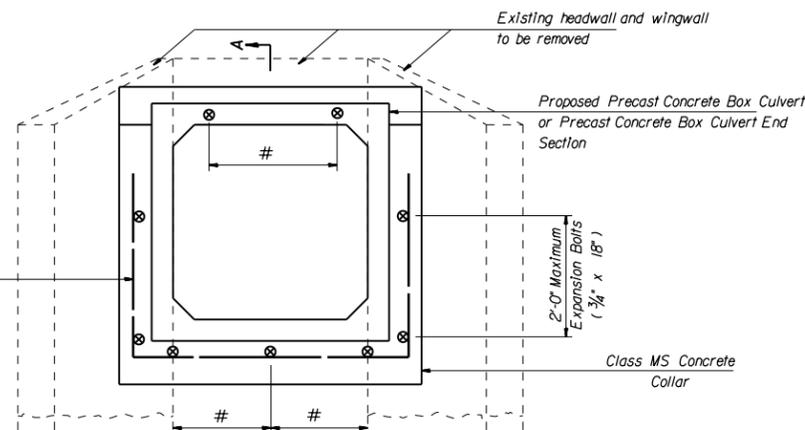


Bars

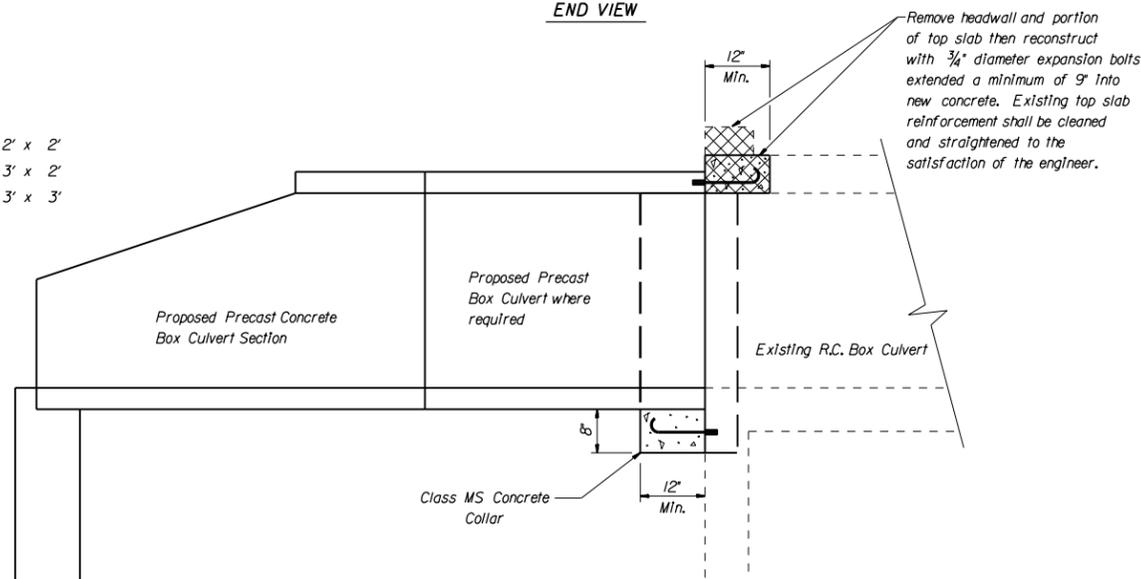
Span x Rise	T	A	E	F	G	H
2' x 2'	4"	2' - 8"	3' - 0"	3' - 0"	1' - 0"	1' - 0"
3' x 2'	4"	3' - 8"	3' - 0"	3' - 0"	1' - 0"	1' - 0"
3' x 3'	4"	3' - 8"	2' - 0"	4' - 0"	1' - 8"	1' - 4"



PLAN VIEW



END VIEW



SECTION A - A

# Number of expansion bolts and spacing

Span x Rise	Top Slab 3/4" x 9" *	Bottom Slab 3/4" x 9" *	Each Wing 3/4" x 18" *
2' x 2'	2 at 12"	2 at 12"	2 at 24"
3' x 2'	2 at 24"	3 at 18"	2 at 24"
3' x 3'	2 at 24"	3 at 18"	2 at 24"

\* The dimensions shown are the minimum extensions of the expansion bolts into the new concrete.

SCHEDULE OF ESTIMATED QUANTITIES

STATION	SIZE	CONCRETE COLLAR	EXPANSION BOLTS	REINFORCEMENT BARS
	( FT )	( C. Y. )	( EA. )	( LBS )
866+07 LT ( 9+33 EX US 67 )	3' x 3'	0.40	9	15

NOTE:

Removal of existing headwalls, portions of existing top slabs, etc., shall not be paid for separately, but shall be considered as included in the contract unit price per cubic yard for concrete collar.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS  
BOX CULVERT EXTENSION  
FAP 310 (US 67/IL 104)

DATE  
DRAWN BY  
CHECKED BY