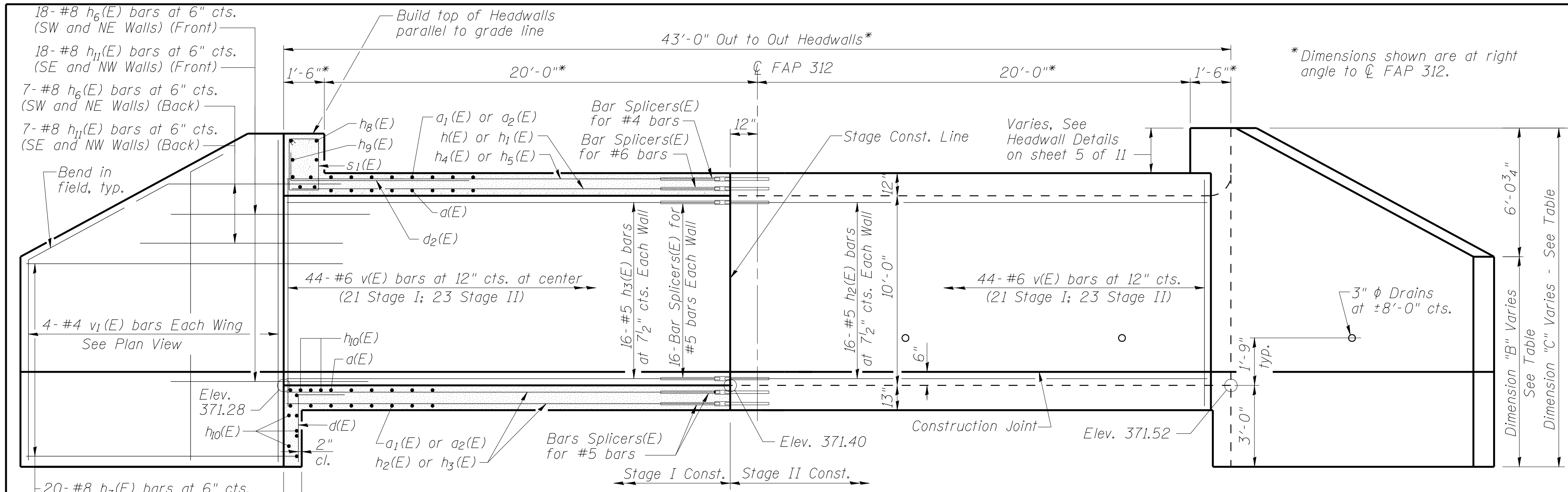


*Dimensions shown are at right angle to ℄ FAP 312.

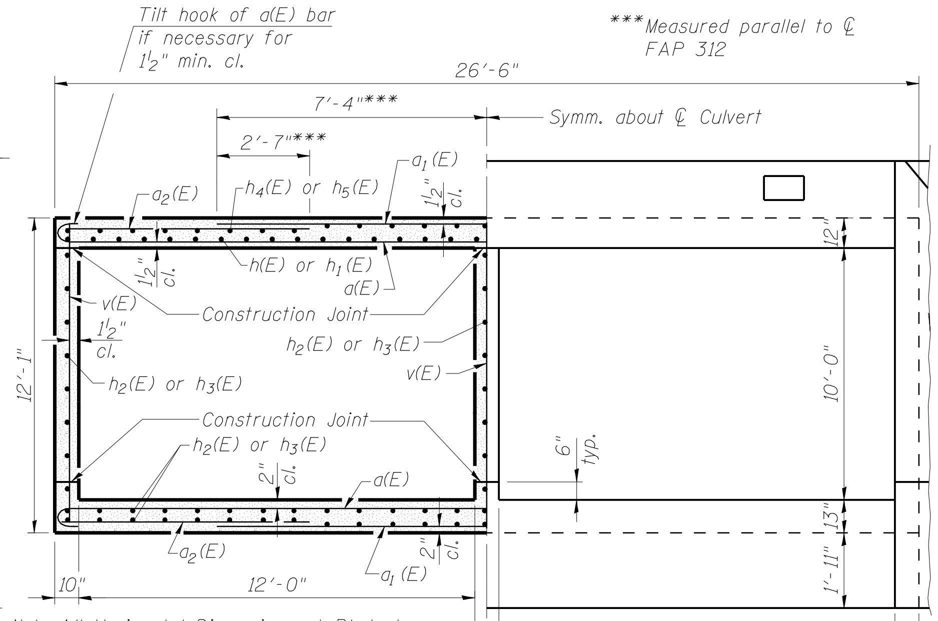
20-#8 h_7(E) bars at 6" cts. (SW and NE Walls) (Back)

20-#8 h_{12}(E) bars at 6" cts. (SE and NW Walls) (Back)

HALF LONG. SECTION
Showing bars in Center Wall

HALF ELEVATION
Showing bars in Outside Wall

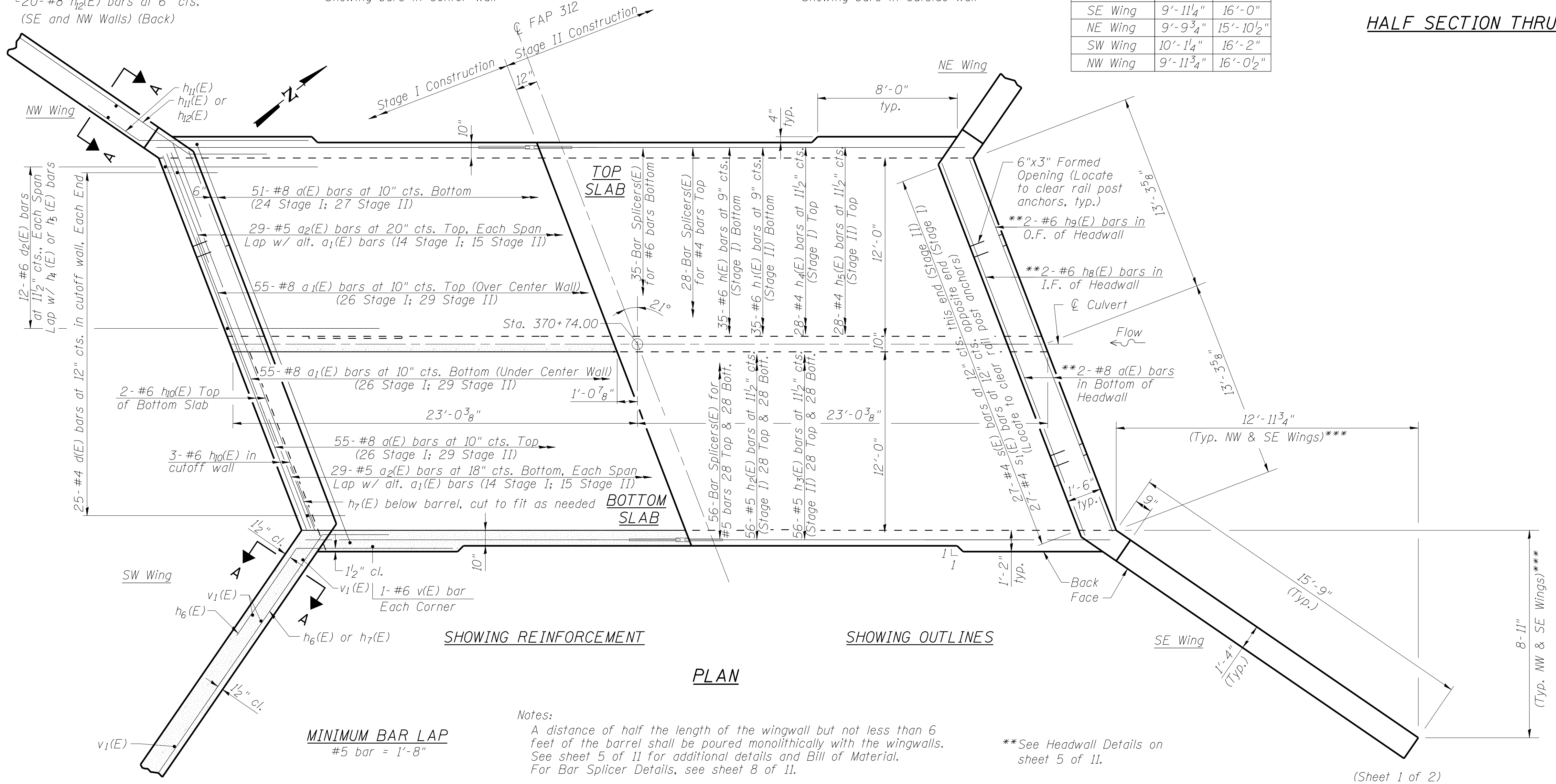
Location	Dimension "B"	Dimension "C"
SE Wing	9'-11¼"	16'-0"
NE Wing	9'-9¾"	15'-10½"
SW Wing	10'-1¼"	16'-2"
NW Wing	9'-11¾"	16'-0½"



Note: All Horizontal Dimensions at Rt. L to ℄ Culvert usless noted otherwise

HALF SECTION THRU BARREL

HALF END ELEVATION



SHOWING REINFORCEMENT

SHOWING OUTLINES

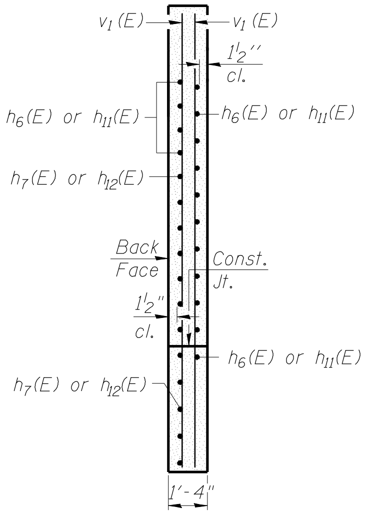
PLAN

MINIMUM BAR LAP
#5 bar = 1'-8"

Notes:
A distance of half the length of the wingwall but not less than 6 feet of the barrel shall be poured monolithically with the wingwalls.
See sheet 5 of 11 for additional details and Bill of Material.
For Bar Splicer Details, see sheet 8 of 11.

**See Headwall Details on sheet 5 of 11.

(Sheet 1 of 2)



SECTION A-A

***See Sheet 1 of 11 for NE & SW Wing Dimensions

ESCA CONSULTANTS, INC.
CIVIL & STRUCTURAL ENGINEERS URBANA, ILLINOIS

USER NAME = RJT	DESIGNED - RDP 09/11	REVISED -	
ESCA PROJECT NO. 988.08	CHECKED - JAF 09/11	REVISED -	
PLOT SCALE = 0:2 ':' / IN.	DRAWN - DWH 11/11	REVISED -	
PLOT DATE = 11/16/2011 9:49:30 AM	CHECKED - RDP 11/11	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BOX CULVERT DETAILS
STRUCTURE NO. 039-2029
SHEET NO. 4 OF 11 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	123B-4	JACKSON	58	27
		CONTRACT NO. 78197		
		ILLINOIS FED. AID PROJECT		