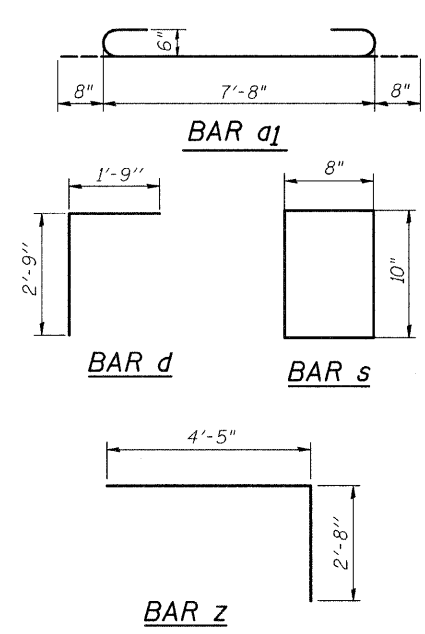
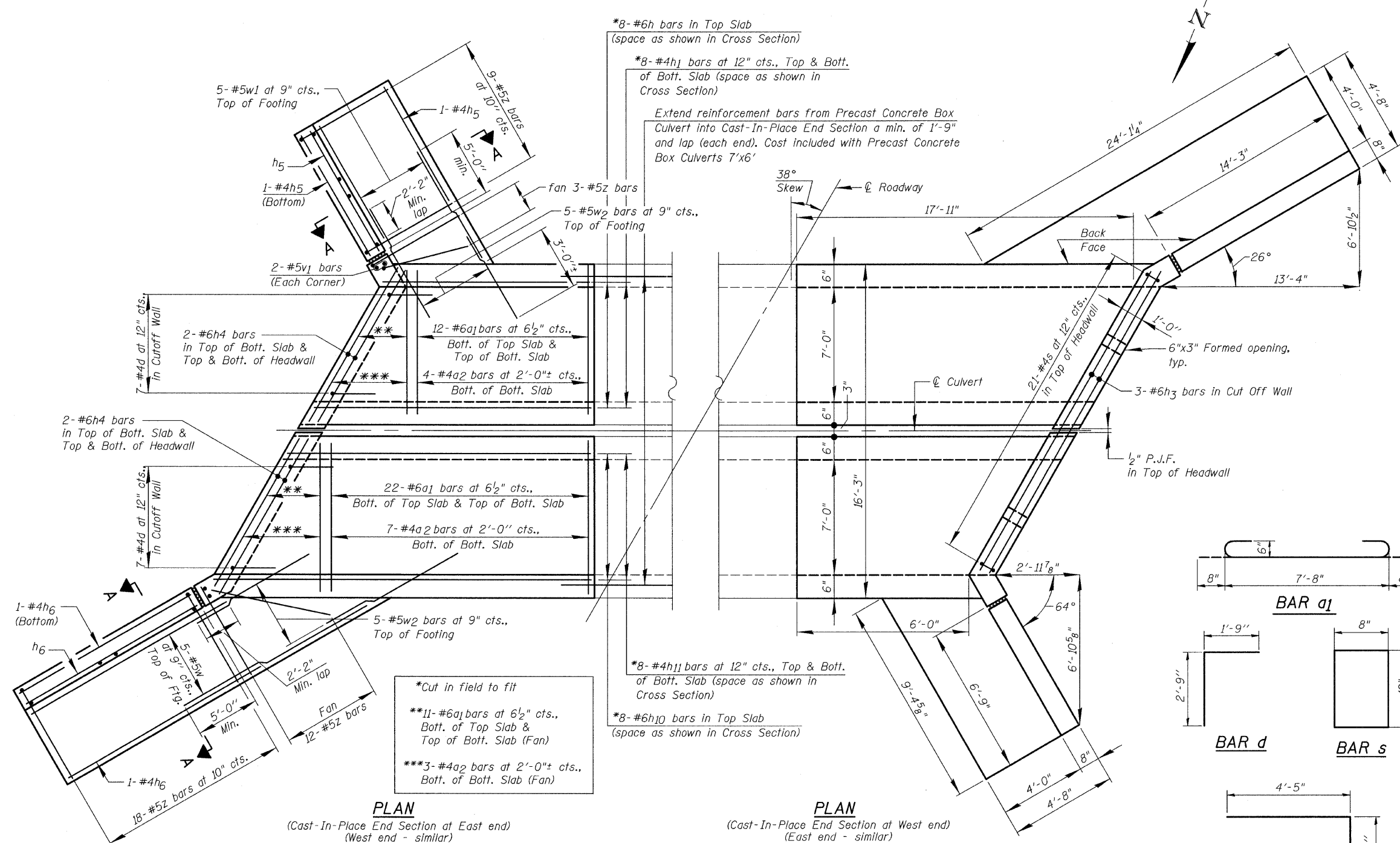


BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1	224	#6	9'-0"	C
a2	34	#4	7'-6"	—
d	28	#4	4'-6"	L
h	16	#6	11'-6"	—
h1	32	#4	11'-6"	—
h2	12	#5	5'-6"	—
h3	6	#6	19'-8"	—
h4	24	#6	9'-8"	—
h5	18	#4	6'-5"	—
h6	18	#4	13'-11"	—
h7	12	#5	11'-0"	—
h8	12	#5	12'-0"	—
h9	12	#5	17'-5"	—
h10	16	#6	17'-5"	—
h11	32	#4	17'-5"	—
s	42	#4	3'-9"	L
v	140	#4	6'-8"	—
v1	8	#5	9'-10"	—
v2	14	#4	3'-6"	—
v3	14	#4	4'-6"	—
v4	14	#4	5'-6"	—
v5(E)	42	#4	6'-0"	—
w	10	#5	14'-6"	—
w1	10	#5	7'-0"	—
w2	20	#5	6'-0"	—
z	84	#5	7'-1"	L
Concrete Box Culverts			Cu. Yd.	34.0
Reinforcement Bars, Epoxy Coated			Pound	170
Reinforcement Bars			Pound	7,850



**CAST-IN-PLACE END SECTION DETAILS-I
STRUCTURE NO. 049-0241
OUTLET NO. 18**

CHRISTIAN-ROGE & ASSOCIATES, INC.