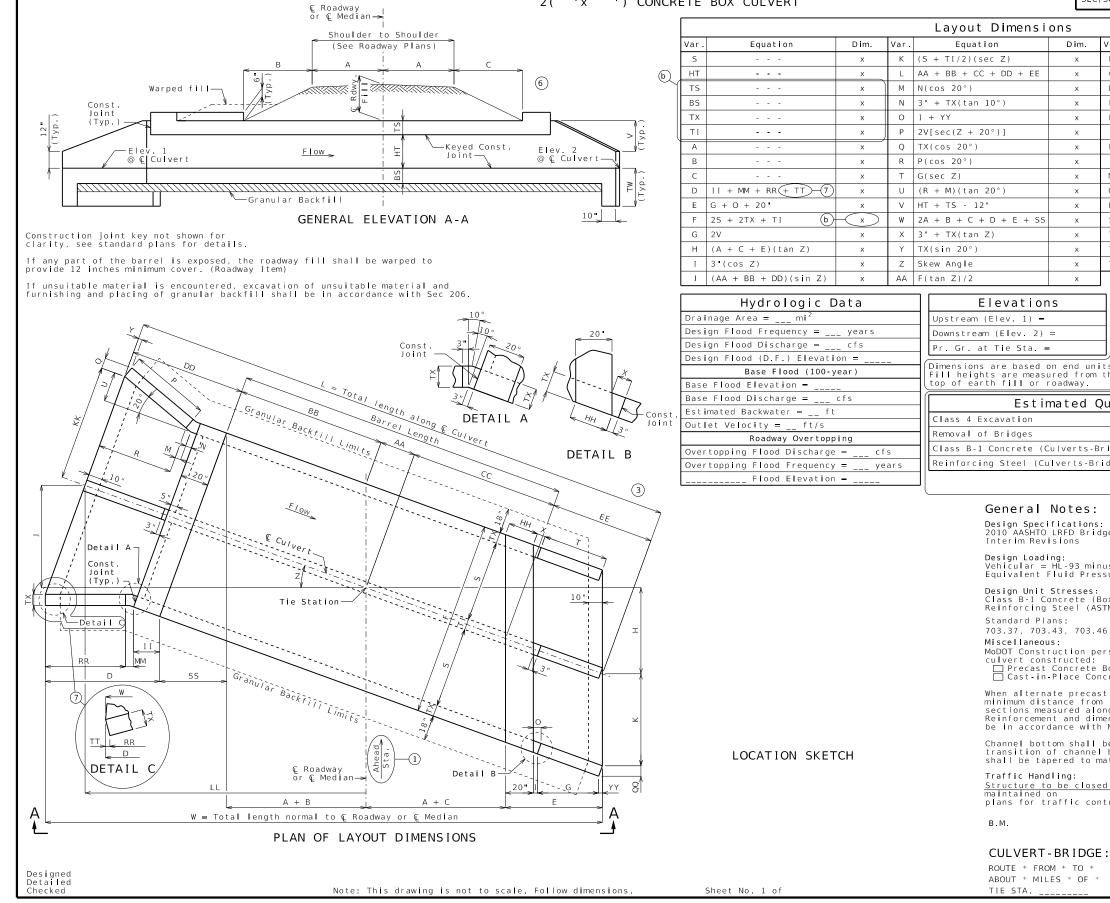
2('x) CONCRETE BOX CULVERT

SEC/



				_					_
/SUR * T	WP *	RGE	*						
				ן ן					
Var. Equi	ation		Dim.	1					
BB (A + B)(se			×	1					
CC (A + C)(se	ec Z)		×						
DD R + M + N	+ 20"		х						
EE E(sec Z)			х				REPARED		
HH 20"(sec Z)			×	╎┝	ROL		2025 ST.) ATE	
II 20"(cos Z)			×	┤┣╴		RICT		O	
KK S + TI/2 +	- U - DD)(cos Z)		×	łĽ	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		!	5	
	- cos(Z - 20		× ×			COU	NTY		
QQ TX(cos Z)	03(2 20	, , ,	×			JOB	NO.		
RR P[cos(Z -	20°)]		×		(CONTRA	CT ID	•	
SS F(sin Z)			×	1		PROJE	CT NO.		
TT TX[sin(20°	- Z)]	$\bigcirc + \bigcirc$	×				E NO.		
YY TX(sin Z)			х			BRIDG	E NO.		
TW Max{3'-4"	or (BS + 12	2")}	х	╵┣╴					
J									
6 Fi	ll Heigh	ıts		1)					
€ Rdwy at €	Culvert =		ft	NOI.					
Design (All	units) 🗕	ft		DESCRIPTION					
				ESCE					
its.									
the top of top	slab to the	: 	a						
Quantities			Final)					
	/ard x								
Lump				DATE					
Bridge) cu.y	/ard x								_
ridge) po	ound x]][0			UT1	510	0500
			(2		COMM I S S I ON		105 WEST CAPITO	JEFFERSON CITY, MO 65102	2-C/
							VEST	c	28-2
				ANS			05 V	55	Ώ-Τ
: dge Design Speci	fications a	and 20	010	TR	NO		-	SON	
				AND	SSI			FFEF	MUUN
nus lane load, E	arth = 120	lb/c1	f	s,	Μ	F			- YSK
ssure = 30 lb/cf				.) [A	Ő	0			
Box Culvert)	f'c = 4,	000 g	osi	5 1 1		Ň	V	<u>ו</u> 1	1-888
STM A615 Grade 6	50) fy = 60,	000 p	os i			_0	1	5	
46, 703.47(4)				OUR		Σ			
ersonnel will ir	dicate the	type	of boy	MISSOURI HIGHW		_	•		
Box used	idicate the	cype	JI DUX	Σ	_				
Box used ncrete Box used									
st concrete box	sections ar	e use	ed, the						
m inside face of ong the shortest	: wall shall	be 3	3 feet.						
mensions for wir h Missouri Stanc		waris	s snall						
be graded withi	n the right	ofv	vay for						
l beď to culvert match culvert op	: openings venings. (Ro	Chanr adway	nel bank / Item)	ŚŚ					
ed during constr during const	uction Tra	aff i c e roa	to be adway						
ntrol.			-						
E: ROUTE *	OVER *								
ĸ									
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Pipes	With Same D	i ame t e r	Ir
XX" P	ipe Inle	t Data	
Station	Offset	F.L. Elev.	
xx+xx.xx	XX XX XX	x x x . x x	
xx+xx.xx	xx xx XX	x x x . x x	
xx+xx.xx	XX XX XX	x x x . x x	
Pipes \	With Differe	ent Diameter	s
Pi	pe Inle	t Data	

Offset

XX XX XX

xx+xx xx xx XX

xx+xx xx xx XX xx

Dia. F.L. Elev

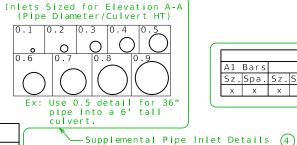
xxx.xx

xxx.xx

xxx.xx

××"

××"



-Supplemental Reinforcement Table (Nonstandard culverts with only one design fill height) (5)

					Тор	Sla	b Rei	nforce	eme n	t					Bott	om Sla	b Rein	forc	eme n f		Wa	II Re	einfo	r c em	ent
Α1	Bars		J	3 Bars			H1 B	ars		H2 B	ars	A2	Bars		J	4 Bars			H3 Ba	ars	B1	Bars	B	2 Bar	S
Sz	.Spa.	Sz.	Spa.	C1	К2	Sz.	Spa.	C5	Sz.	Spa.	C6	Sz.	Spa.	Sz.	Spa.	C4	К3	Sz.	Spa.	C7	Sz.	Spa.	Sz.	Spa.	G1
Х	X	Х	X	х	х	Х	X	х	Х	х	х	х	×	х	×	х	х	X	х	х	Х	×	Х	×	х
							Subs	titute	tab	le f	or tab	les	show	n o	n Sta	ndard	Plan 7	03.4	47						

Standard Drawing Guidance (Do not show on plans. Turn off the Bridge Construction level to hide)

Station

xx+xx.xx

Some details have been grouped together to allow easy substitution with alternate details. To edit grouped details, select them and press <Ctrl> U.

Ahead station is shown for streams flowing left to right. Arrow must be flipped for streams that flow right to left.

(2) Modify Estimated Quantities as required. Don't leave blank rows but leave space between Estimated Quantities and General Notes for at least one pay item to be added during construction. See Alternate Details for culvert extensions, or if five items are required.

(3) Add any required transverse joints proportionally spaced along the barrel. Label units and add actual lengths of units along the barrel.

(4) Insert STD 703.60 when pipe inlets are required. Add pipe inlets to Plan of Layout Dimensions at appropriate locations and to Elevation A-A if visible from elevation. Add inlet data using notes where space allows, or use tables.

- (5) For nonstandard culverts with only one design fill height, add supplemental reinforcement table.
- (6) No need to revise General Elevation A-A for dual roadways. In Fill Heights table add a lane designation after € Rdwy and insert another row for the other lane.
- For skews 20° or more, remove Detail C, remove TT from the equation for D and place "N/A" in the Dim. column for Dim. TT. Will first need to drop Detail C from group by selecting it, then pressing <Ctrl> U.

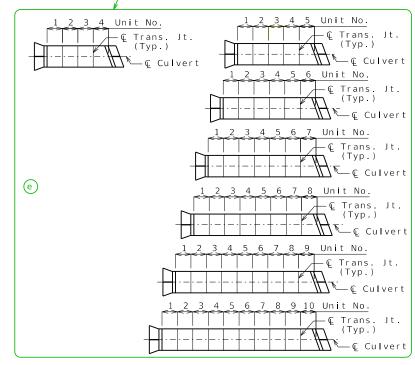
*** VARIABLE DESIGN FILL HEIGHTS ***

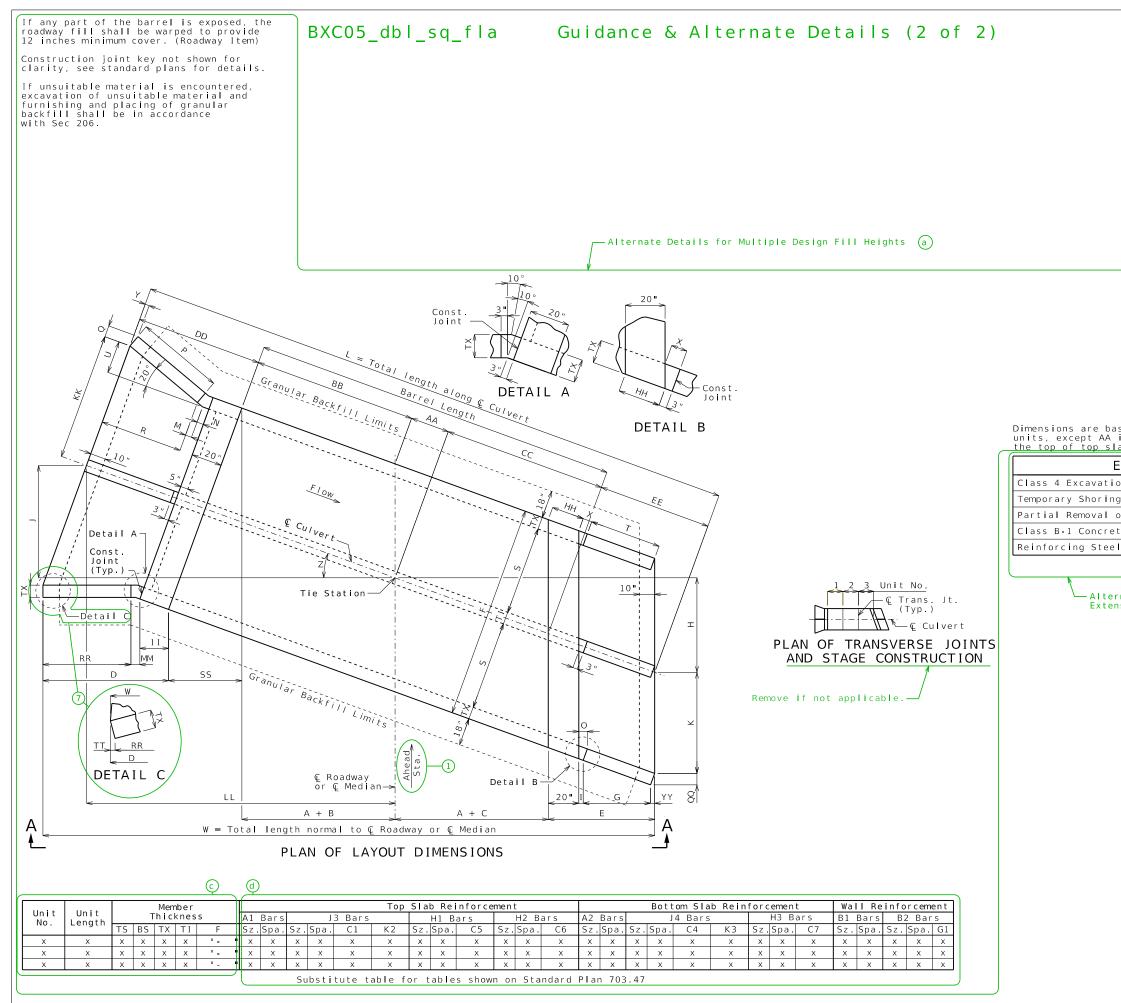
- (a) Select and delete the details grouped with the Fill Heights table. Select and move the alternate grouped details to drawing.
- (b) Place "See Member Thickness table" in the Equation column and place "Varies" in the Dim. column. If Dimension F varies, place "Varies" in the Dim. column.

© Remove blank rows. End units may have different design fill heights but both units need to have the same member thicknesses.

(d) This portion of table required when design fill height exceeds limits of the standard plans or when culvert cell height or span is not standard. If only a portion of the units are nonstandard, fill out entire table using the values from the standard table where applicable. Omit if not required.

- Alternate Plan of Transverse Joints





Corresponds to the border of the standard drawing for ease in moving alternate details (Snap to corner) -

	F	ill He	ights	
	€ Rdwy at	€ Culvert	=	ft
	Design (Un	its 1 &) =	ft
	Design (Un	its &) =	ft
sed on end	Design (Un	its &) =	ft
is based on Unit ab to the top of				d from
Estimated Qu	uantitie	S		Final
Estimated Qu	antitie	S cu. yard	1	Final
-	uantitie		x	Final
on		cu. yard	× 1	Final
on g	e Concrete	cu. yard Iump sum	x 1 1	Final
on g of Culvert-Bridge	e Concrete dge)	cu.yard Iump sum Iump sum	x 1 1 x	Final

(2)

-Alternate Estimated Quantities for Culvert Extensions or when Five Items are Required