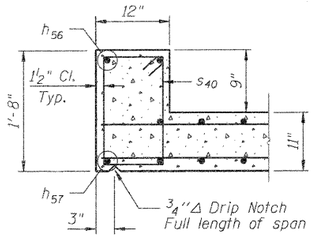
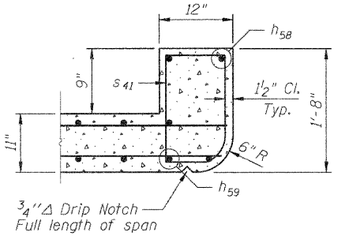
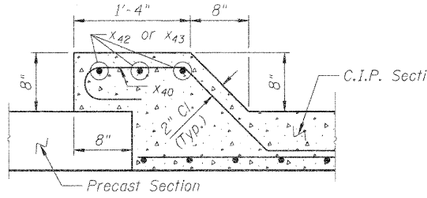


DOWNSTREAM

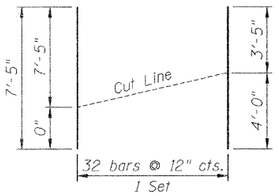


UPSTREAM

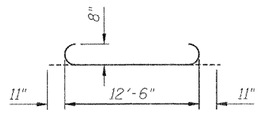
HEADWALL DETAILS



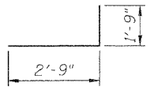
PRECAST TO CAST-IN-PLACE CONNECTION COLLAR



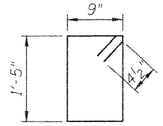
BAR v42 CUT DIAGRAM



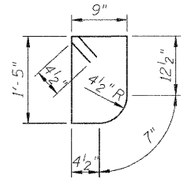
BAR a40



BAR d40

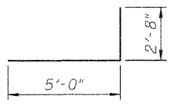


BAR d41

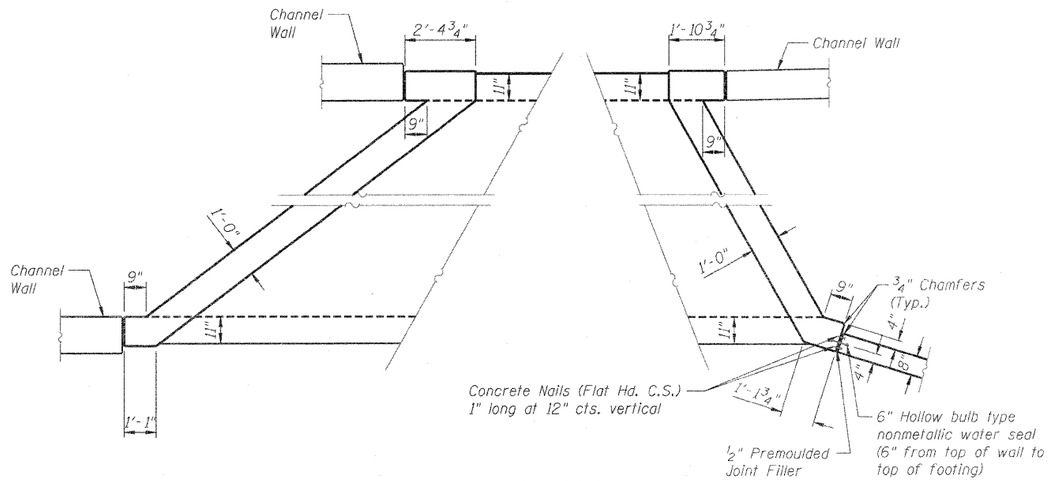


BAR d42

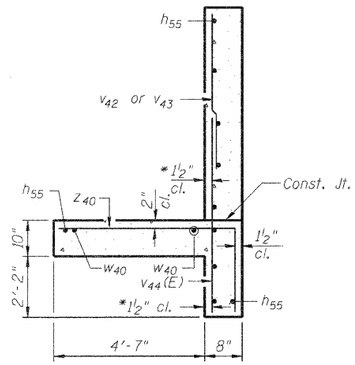
BAR x40



BAR z40



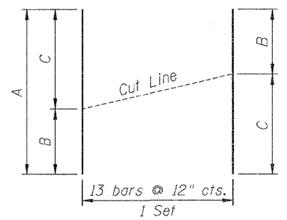
CORNER DETAILS



SECTION THRU WINGWALL

* v bars shall not be placed more than 1½" cl. from back face of wingwall.

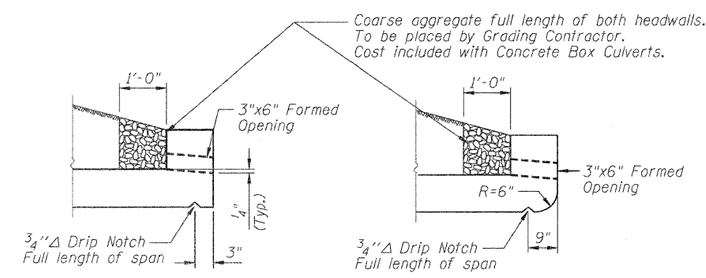
Max. Soil Pressure under footing = 2,609 psf



BAR h_{40} THRU h_{47} CUT DIAGRAM

CUT DIAGRAM TABLE

BAR	A	B	C
h_{40}	25'-11"	5'-8"	20'-3"
h_{41}	25'-11"	5'-8"	20'-3"
h_{42}	28'-9"	7'-2"	21'-7"
h_{43}	28'-9"	7'-2"	21'-7"
h_{44}	17'-9"	5'-9"	12'-0"
h_{45}	17'-9"	5'-9"	12'-0"
h_{46}	19'-0"	6'-5"	12'-7"
h_{47}	19'-0"	6'-5"	12'-7"



AT DOWNSTREAM END

AT UPSTREAM END

DRAIN DETAIL

STATION 311+10.53
BUILT BY
STATE OF ILLINOIS
F.A.P. RT. 303 SEC. 129K-1
LOADING HS20-44
STRUCTURE NO. 101-2052

NAME PLATE
See Std. 515001

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a_{40}	213	#8	14'-4"	
a_{41}	103	#5	12'-6"	
d_{40}	76	#4	4'-6"	
h_{40}	13	#7	25'-11"	
h_{41}	13	#4	25'-11"	
h_{42}	26	#7	28'-9"	
h_{43}	26	#4	28'-9"	
h_{44}	13	#7	17'-9"	
h_{45}	13	#4	17'-9"	
h_{46}	26	#7	19'-0"	
h_{47}	26	#4	19'-0"	
h_{48}	14	#7	5'-8"	
h_{49}	7	#7	20'-3"	
h_{50}	14	#7	7'-2"	
h_{51}	14	#7	21'-7"	
h_{52}	7	#7	12'-0"	
h_{53}	14	#7	6'-5"	
h_{54}	14	#7	12'-7"	
h_{55}	11	#4	31'-0"	
h_{56}	6	#6	20'-10"	
h_{57}	18	#8	20'-10"	
h_{58}	6	#6	14'-3"	
h_{59}	12	#7	14'-3"	
h_{60}	9	#4	20'-10"	
h_{61}	9	#4	14'-3"	
s_{40}	62	#4	5'-1"	
s_{41}	43	#4	4'-11"	
v_{40}	207	#4	7'-6"	
v_{41}	8	#5	10'-4"	
v_{42}	32	#4	7'-5"	
v_{43}(E)	32	#4	4'-9"	
w_{40}	7	#5	38'-4"	
x_{40}	204	#4	5'-4"	
x_{41}	12	#4	8'-10"	
x_{42}	24	#4	13'-5"	
x_{43}	12	#4	12'-6"	
z_{40}	55	#6	7'-8"	

Item	Unit	Quantity
Concrete Box Culverts	Cu. Yd.	139.2
Reinforcement Bars	Pound	22,490
Reinforcement Bars (Epoxy Coated)	Pound	110

FILE NAME =	USER NAME = SAW	DESIGNED - JLA	REVISED -
...\D264987-2052-005-CulvertDetails.dgn		CHECKED - PMM	REVISED -
	PLOT SCALE = 0.2.0000 ':' / IN.	DRAWN - SAW	REVISED -
	PLOT DATE = 11/28/2010	CHECKED - JLA	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS
N. 2ND FRONTAGE ROAD OVER WILLOW CREEK TRIBUTARY
SHEET NO. 5 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K-1	WINNEBAGO	401	286
	S.N. 101-2052	CONTRACT NO. 64987		
	ILLINOIS FED. AID PROJECT			