

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
F.A.P. 311	*	LaSalle	66	37
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
*(3)BR-1,2,3 & (4)BR Contract #66741				

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a <sub>31</sub>	132	#6	9'-0"	
a <sub>32</sub>	22	#4	7'-8"	—
a <sub>33</sub>	4	#4	10'-8"	—
d <sub>30</sub>	36	#4	4'-6"	
d <sub>31</sub>	21	#4	4'-7"	
d <sub>32</sub>	21	#4	4'-5"	
h <sub>30</sub>	4	#5	10'-2"	—
h <sub>31</sub>	4	#5	6'-2"	—
h <sub>32</sub>	16	#5	16'-4"	—
h <sub>33</sub>	28	#4	16'-4"	—
h <sub>34</sub>	24	#5	6'-2"	—
h <sub>35</sub>	24	#5	10'-2"	—
h <sub>36</sub>	22	#4	13'-8"	—
h <sub>37</sub>	22	#4	8'-2"	—
h <sub>38</sub>	8	#6	9'-3"	—
h <sub>39</sub>	8	#6	8'-8"	—
v <sub>30</sub>	100	#4	7'-0"	—
v <sub>31</sub>	8	#4	10'-1"	—
v <sub>32</sub>	46	#4	5'-0"	—
v <sub>33(E)</sub>	50	#4	6'-10"	—
w <sub>30</sub>	14	#5	18'-0"	—
w <sub>31</sub>	14	#5	12'-6"	—
x <sub>30</sub>	104	#4	5'-4"	
x <sub>31</sub>	12	#4	8'-4"	—
x <sub>32</sub>	24	#4	8'-9"	—
z <sub>30</sub>	74	#6	7'-4"	—
Item	Unit	Quantity		
Concrete Box Culverts	Cu. Yd.	52.8		
Reinforcement Bars	Pound	6,260		
Reinforcement Bars (Epoxy Coated)	Pound	230		

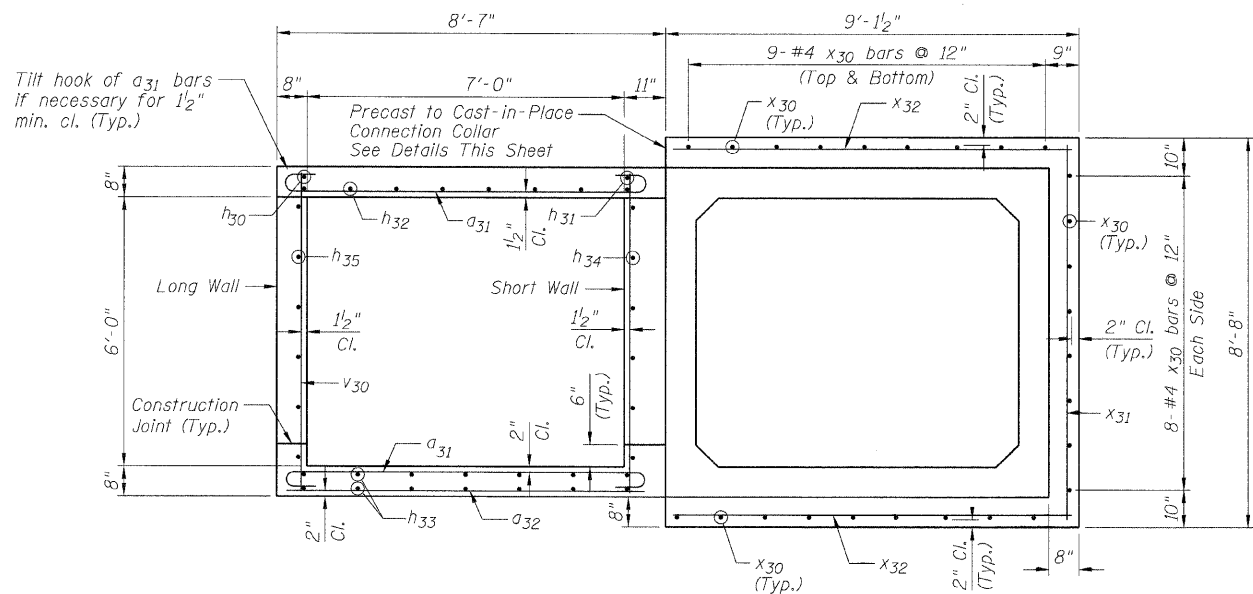
NOTES

Reinforcement Bars shall conform to the requirements of AASHTO M-31, M-42 or M-53, Grade 60.

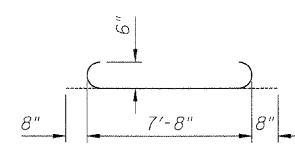
Reinforcement bars designated (E) shall be epoxy coated.

All construction joints shall be bonded.

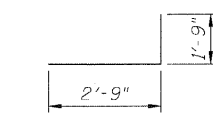
CULVERT DETAILS  
IL 71 OVER BRANCH OF MISSION CREEK  
FAP ROUTE 311  
SECTION (3)BR-1,2,3 & (4)BR  
LASALLE COUNTY  
STA. 680+72.01  
S.N. 050-2049



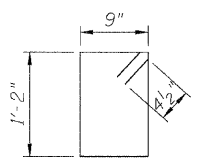
SECTION A-A



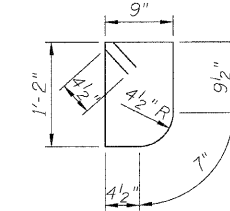
BAR a31



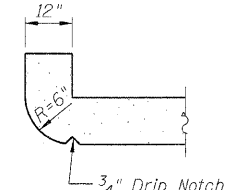
BAR d30



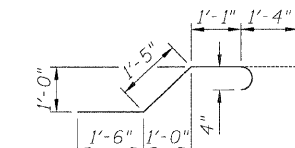
BAR d31



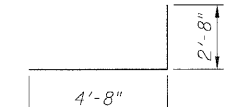
BAR d32



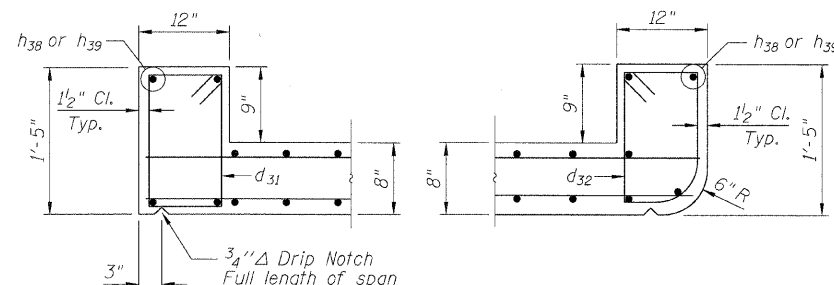
SECTION THRU HEADWALL  
(Up Stream End Only)



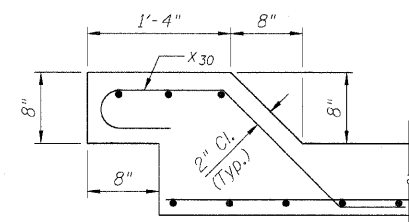
BAR x30



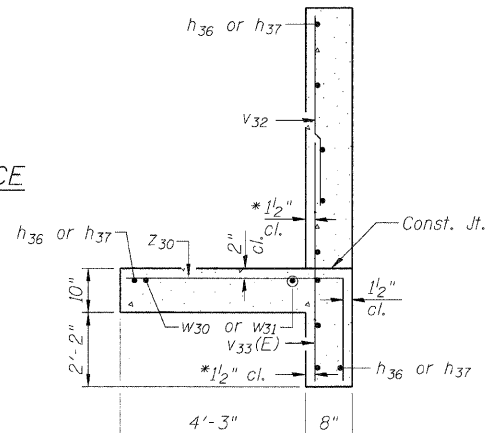
BAR z30



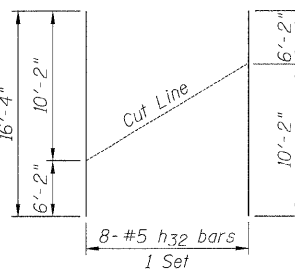
HEADWALL DETAILS



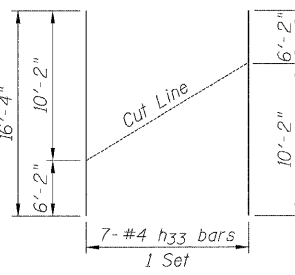
PRECAST TO CAST-IN-PLACE  
CONNECTION COLLAR



SECTION A-A



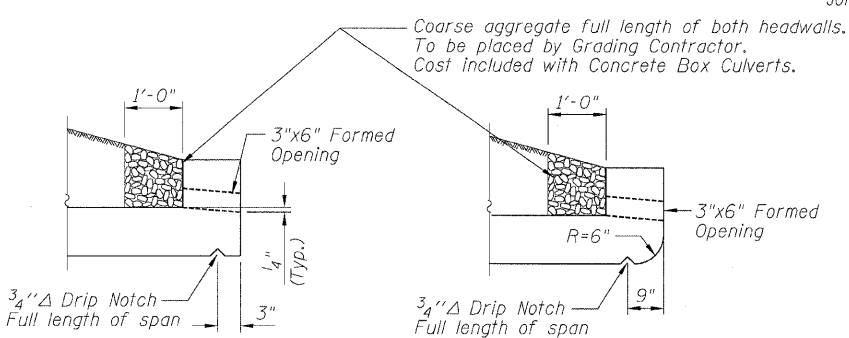
BAR h32  
CUT DIAGRAM



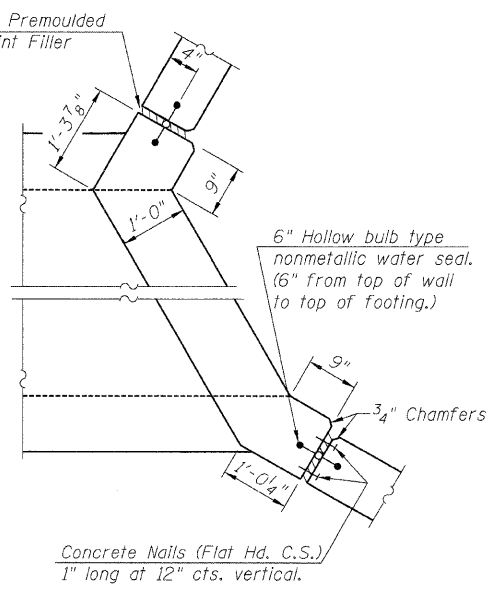
BAR h33  
CUT DIAGRAM

DESIGN STRESSES

f<sub>y</sub> = 60,000 psi  
f'<sub>c</sub> = 3,500 psi  
Max. Soil Pressure under footing = 2,479 psf



DRAIN DETAIL



CORNER DETAIL

DESIGNED	LAS
CHECKED	JLA
DRAWN	SAW
CHECKED	LAS