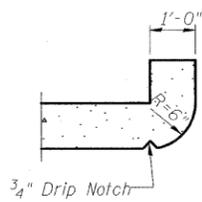


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**SECTION THRU HEADWALL**  
(Up Stream End Only)

**DESIGN STRESSES**

EXISTING CONSTRUCTION	NEW CONSTRUCTION
$f_y = 40,000 \text{ psi}$	$f_y = 60,000 \text{ psi}$
$f'_c = 3,000 \text{ psi}$	$f'_c = 3,500 \text{ psi}$

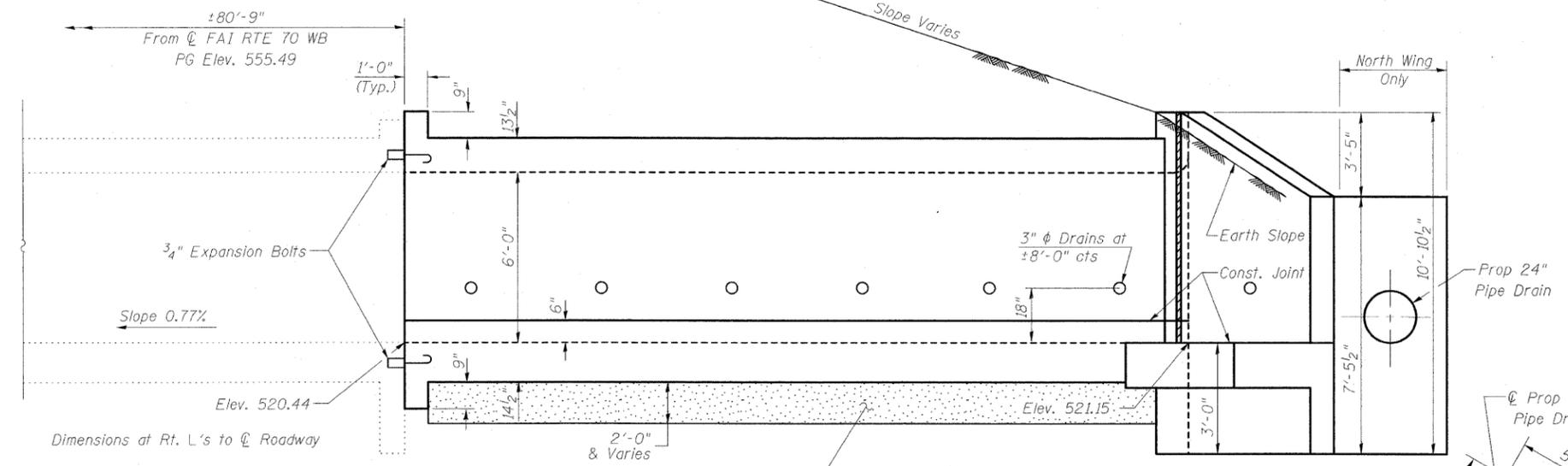
**LOADING HS 20-44 & ALT.**

**DESIGN SPECIFICATIONS**

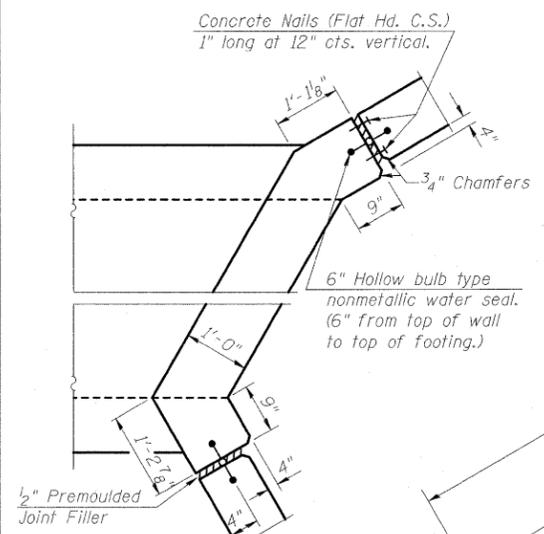
2002 AASHTO Standard Specifications  
for Highway Bridges

**GENERAL NOTES**

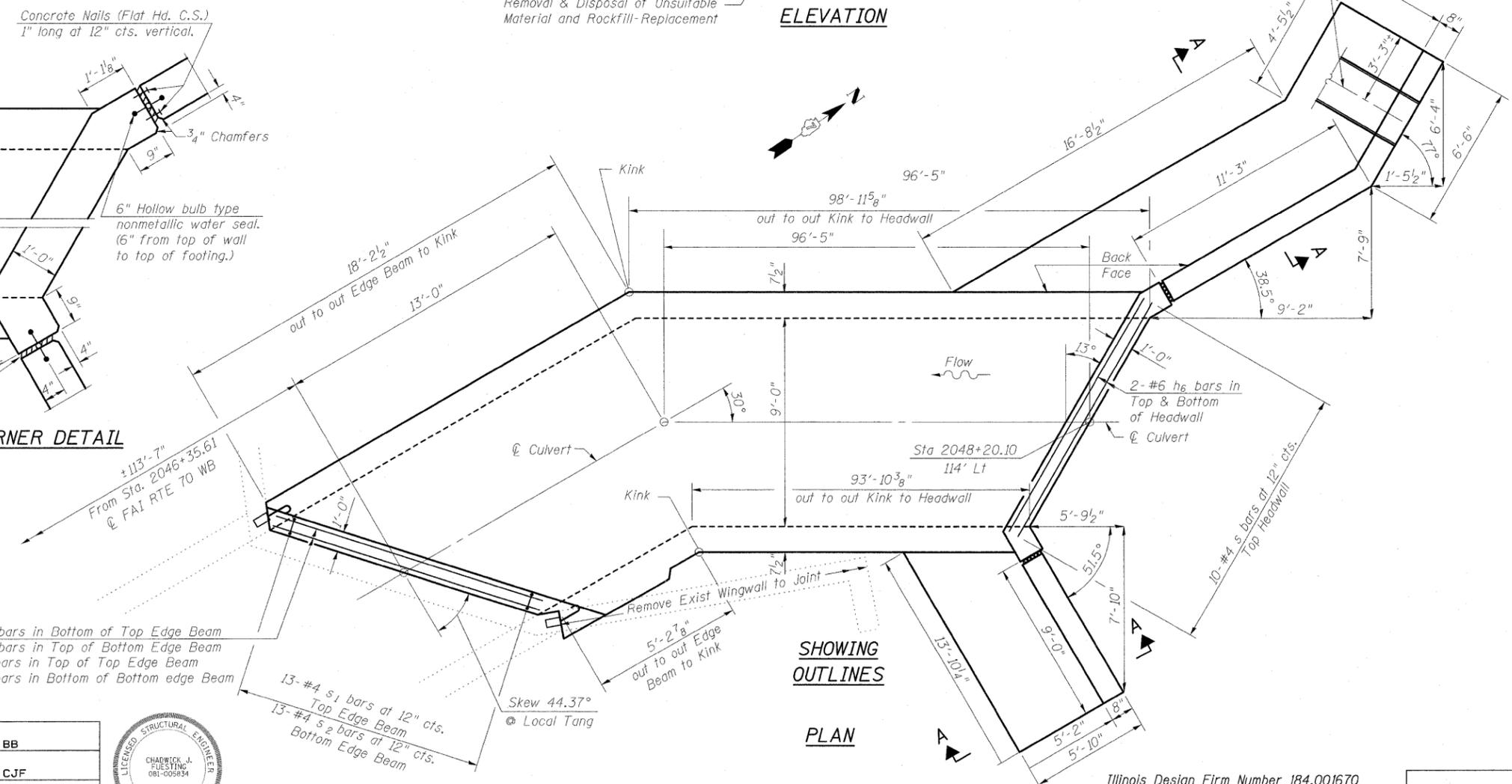
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.  
Removal of the existing wings during construction shall be completed according to Section 501.05 of the Standard Specifications.  
Reinforcement bars designated (E) shall be epoxy coated.  
Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity furnished at the unit price for the work.  
Expansion bolts shall be according to Standard Specification Article 1006.10.  
The depth of Removal and Replacement of Unsuitable Materials and Rockfill-Replacements as shown on the plans is estimated.  
The verification of allowable soil bearing pressure underlying the proposed box culvert and wingwall footings shall be verified by a dynamic cone penetration (DCP) test or other acceptable measures as provided by the District Geotechnical and Field Engineers.  
The results of the test must exceed the calculated bearing pressures shown on the plans prior to placement of the Concrete Box Culvert or Rockfill-Replacement. Tests failing to exceed the calculated bearing pressures as shown on the plans will require subsurface modification that must be coordinated with the District Geotechnical and Field Engineers.



**ELEVATION**



**CORNER DETAIL**



**SHOWING OUTLINES**

**PLAN**

DESIGNED -	BB
CHECKED -	CJF
DRAWN -	RCB
CHECKED -	CJF



Chadwick J. Rusting  
5/21/2010

Note:  
For Section A-A, see Sheet 2 of 3



Illinois Design Firm Number 184.001670  
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Marysville, IL 62452-5655  
Local (618) 388-4665  
Fax 618-288-4666

**BOX CULVERT DETAILS**  
**LT STA 2046+35.61**  
**FAI ROUTE 70 WB (RDWY A)**

SHEET NO. 1 OF 3 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	57/70	(25-3)R	EFFINGHAM	1416	448
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 74296		

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