

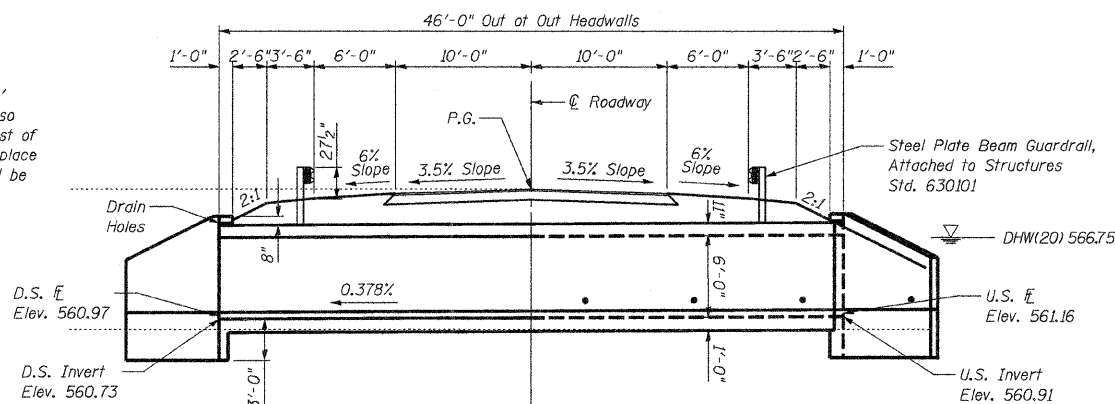
RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 12	07-00118-00-BR	LOGAN	12	10
STA. 20+00		STA.		
FED. ROAD DIST.	ILLINOIS	FED. AID PROJECT		

Benchmark - BM#1 (CP100) - Top of 5/8" Rebar
Sta. 20+39.09, 16.25' Lt.
Elev. 569.51

Existing Structure - 054-3908 - Built in 1937 under Section 70-0. Triple 9' x 4.5' Concrete Box Culvert with Concrete Headwalls and Wingwalls. Also part of the existing structure is a 36" Plastic Pipe, located East of the culvert. The contractor shall remove both structures and replace them with a 9' x 6' triple barrel box culvert. The structure will be closed to traffic during construction.

Salvage - All Salvagable Materials to Become The Property of the Contractor

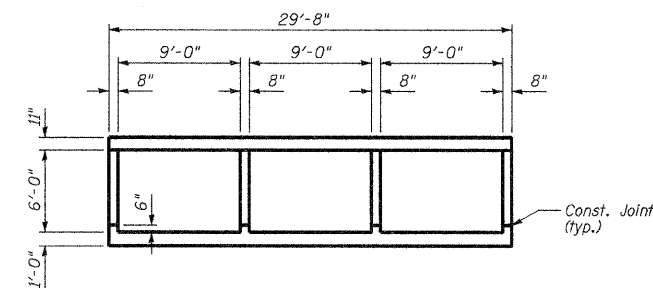
Estimated Removal Quantities - 86 Cu. Yd. Concrete



LONGITUDINAL SECTION

INDEX OF SHEETS

1. General Plan & Elevation
2. Culvert Layout
3. Culvert Details



SECTION THRU BARREL

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	D.S. Invert	U.S. Invert
	557.73	557.91

TRIBUTARY TO LAKE FORK CREEK
BUILT 20__ BY
LOGAN COUNTY
SECTION 07-00118-00-BR
PROJECT BROS-107 (37)
STATION 20+00
STR. NO. 054-3921 LOADING HS-20

LETTERING FOR NAME PLATE

Locate Name Plate on South Face of Culvert
Near West End above Opening (See Std. CN)

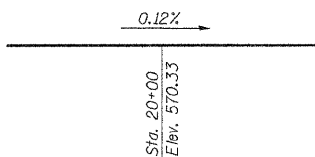
DESIGN SPECIFICATIONS

2002 AASHTO - 17th Ed.

LOADING HS 20-44 & ALT.

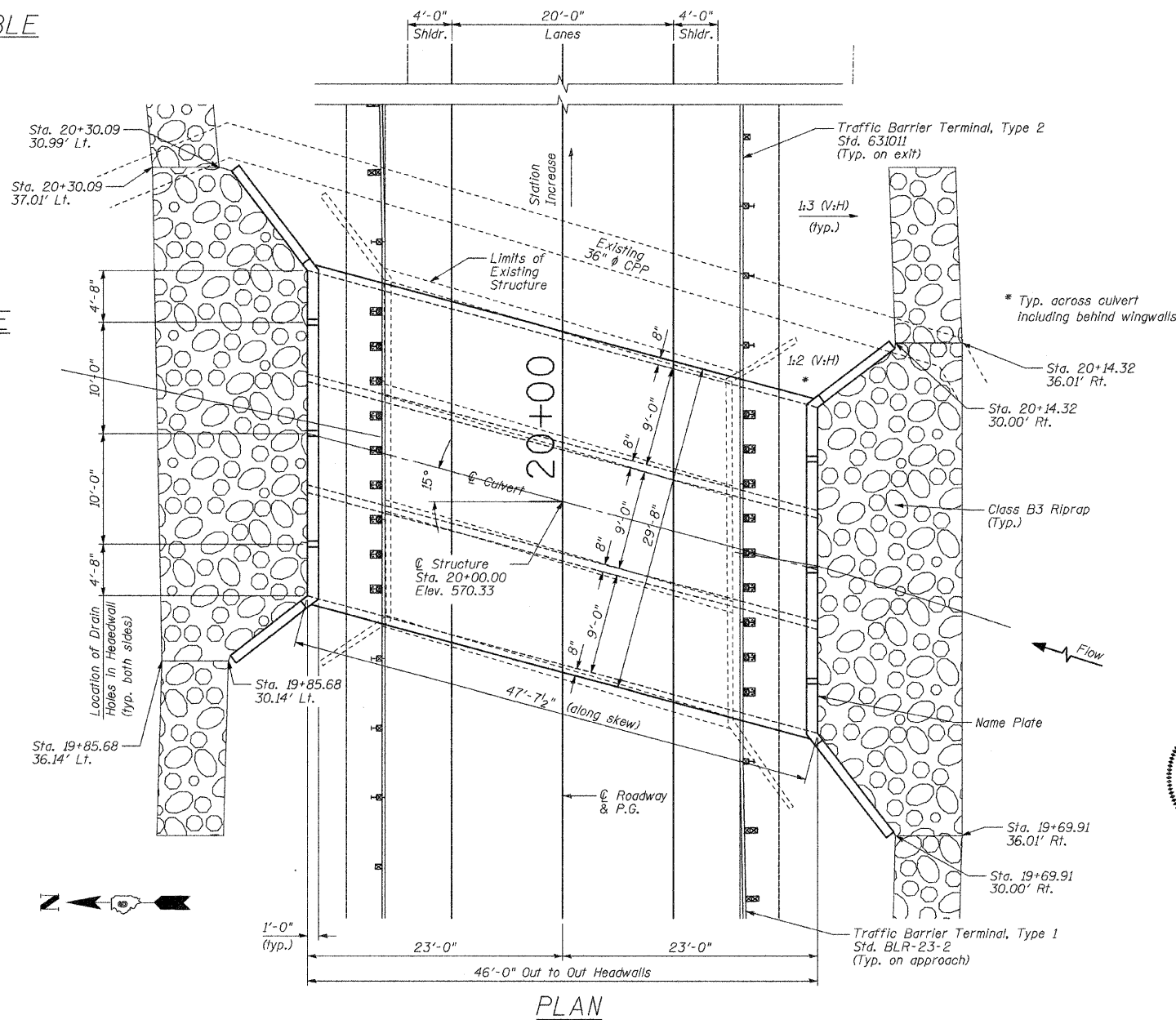
DESIGN STRESSES

$f_y = 60,000$ psi (reinforcement)
 $f'_c = 3,500$ psi

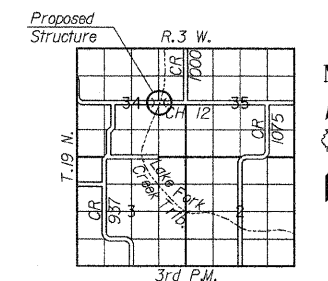


PROFILE GRADE

(Along \bar{C} Roadway)



PLAN



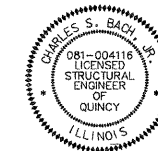
LOCATION SKETCH

WATERWAY INFORMATION

Drainage Area = 4.57 Sq. Mi.		Low Grade Elevation = 570.134		At Station 20+13.77		
Flood	Freq. Yr.	a CFS	Opening Sq. Ft.	Natural H.W.E.	Head-Ft.	Headwater El.
			Exist. Prop.	Exist. Prop.	Exist. Prop.	Exist. Prop.
Min. Calc.	10	487	83	152	566.53	0.49 0.00 567.02 566.53
Design	20	606	87	162	566.75	0.75 0.04 567.50 566.79
Base	100	889	91	162	567.06	1.66 0.37 568.72 567.43
Overlapping	none					
Max. Calc.	500	1,180	129	162	567.25	2.78 0.90 570.03 568.15

This structure has been designed to be stable for scour conditions in accordance with the FHWA Technical Advisory T-5140.23 "Evaluating Scour At Bridges" and Hydraulic Engineer Circular 18 - "Evaluating Scour At Bridges".

I certify that to the best of my knowledge, information and belief, this bridge is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO Standard Specifications For Highway Bridges".
SN054-3908 Sheets 1 thru 3.



Signature: *Charles S. Bach*

Date: 7-1-08

My license renewal date is November 30, 2008

GENERAL PLAN & ELEVATION
CH 12 OVER
LAKE FORK CREEK TRIBUTARY
STATION 20+00.00

FILE NAME = R07013.PLAN.dgn	USER NAME = default	DESIGNED - JLS	REVISED -
		DRAWN - JLS	REVISED -
	PLOT SCALE = 0.0833' / IN.	CHECKED - CSB	REVISED -
	PLOT DATE = 7/1/2008	DATE - JUN 2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION

SCALE: SHEET NO. 1 OF 3 SHEETS STA. 20+00 TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00118-00-BR	LOGAN	12	10
SN 054-3921		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		