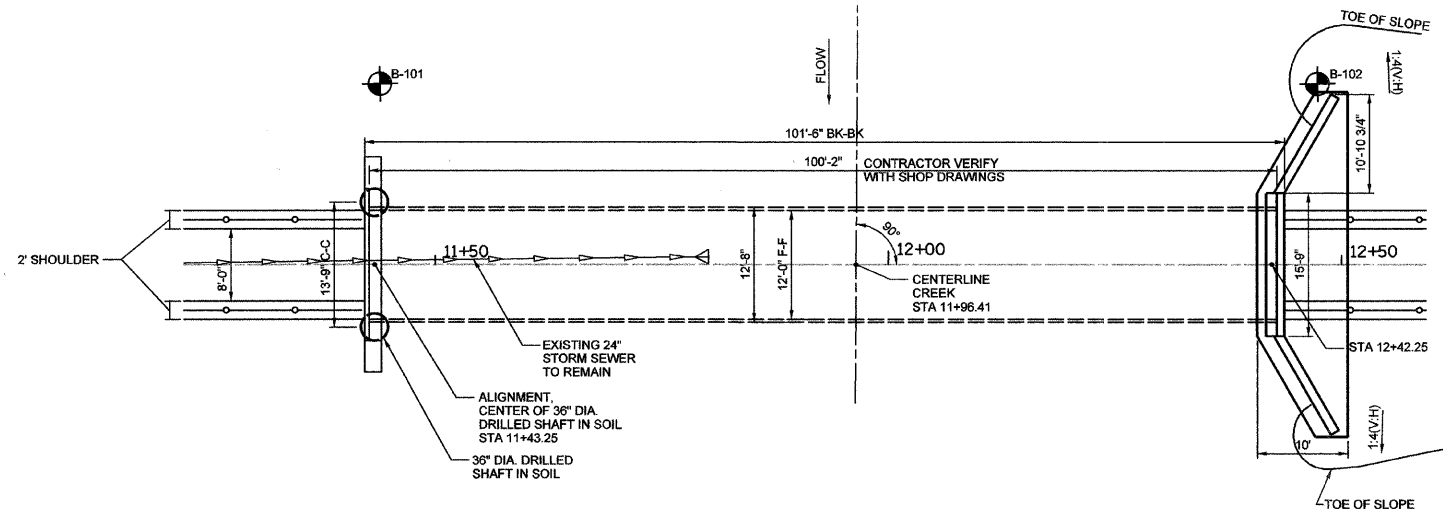
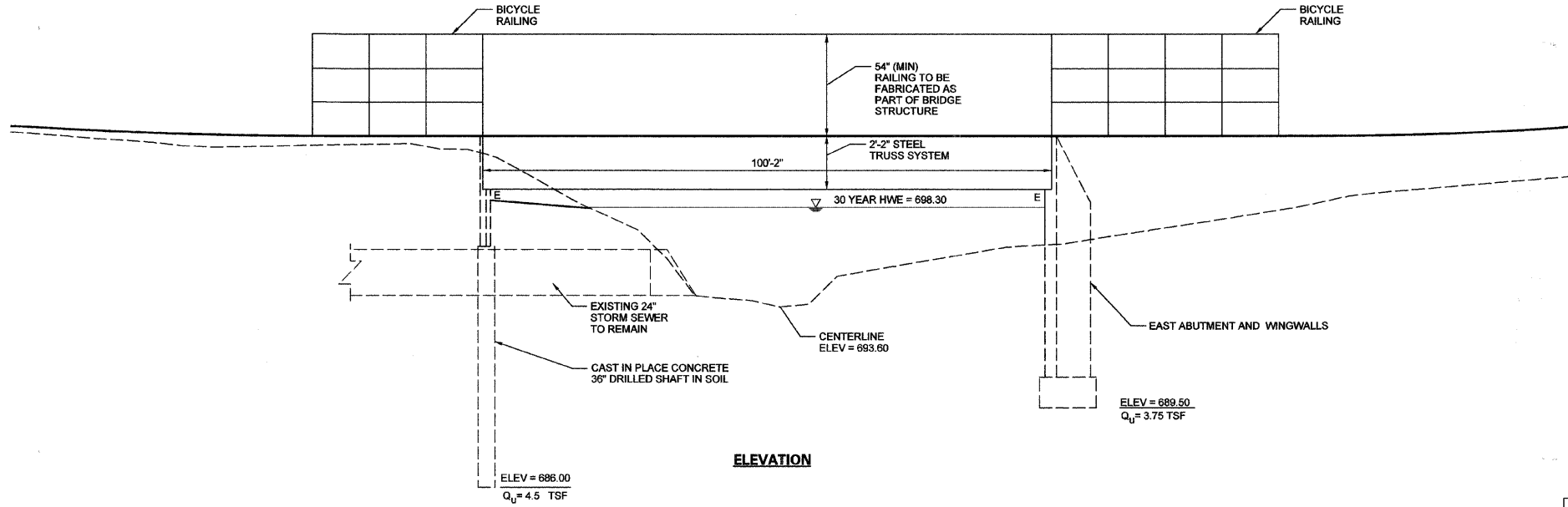


BENCH MARK:
IRON BAR IN CENTERLINE OF OAK STREET AT NORTH-SOUTH
NICOR RIGHT OF WAY 1600 FEET WEST OF RANDALL ROAD
(NORTH AURORA BM#28) ELEV=700.18 (NGVD 1929)



WATERWAY INFORMATION

Flood	Freq. Yr.	Q Ft ³ /s	Opening - ft.		Natural H.W.E.	Head - ft.		Headwater Elevation	
			Existing	Proposed		Existing	Proposed	Existing	Proposed
Design	30	137	--	210	698.3	--	0	--	698.3
Base	100	226	--	286	700.3	--	0	--	700.3
Overtop Existing	--	--	--	--	--	--	--	--	--
Overtop Proposed	--	--	--	--	--	--	0	--	--
Max. Calc.	100	226	--	286	700.3	--	0	--	700.3

Drainage Area = 1.25 mi² Existing Low Grade Elev. = 701.43 at Sta. 11+96.41 Proposed Low Grade = 701.43 at Sta. 11+96.41

10 YEAR VELOCITY THROUGH EXISTING BRIDGE = -- ft/s 10 YEAR VELOCITY THROUGH PROPOSED BRIDGE = 1 ft/s

SEISMIC DATA

Seismic Performance Category (SPC) =
Bedrock Acceleration Coefficient (A) = 3.7
Site Coefficient (S) =

HIGHWAY CLASSIFICATION

Class: BIKE PATH
DHV: 100
ADT: 300 (2030)
Design Speed: 20 MPH

LOADING H-5 TRUCK

FIELD UNITS
 $f'_c = 5,000$ psi
 $f_y = 60,000$ psi (Reinf.)

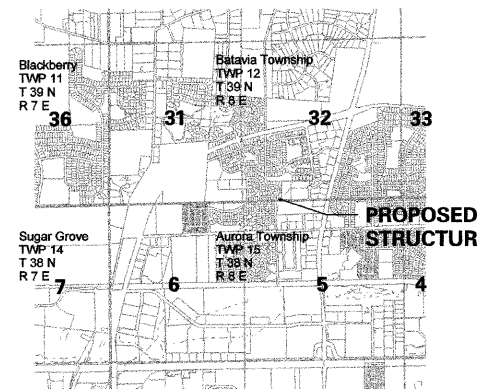
DESIGN SPECIFICATIONS

1997 AASHTO GUIDE SPECIFICATIONS FOR DESIGN OF PEDESTRIAN BRIDGE
2002 AASHTO STANDARD SPECIFICATION FOR HIGHWAY BRIDGES

I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THIS BRIDGE/BOX CULVERT DESIGN 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"

DATE: Nov. 14, 2008 EXPIRATION DATE: Nov. 2010

James J. Bibby
81-004928
REGISTERED
STRUCTURAL
ENGINEER
OF
ILLINOIS



LOCATION SKETCH

PLAN

DATE	
BY	
SURVEYED	
ALIGNMENT CHECKED	
NOTE BOOK NO.	
FILE NAME	

PROFILE

DATE	
BY	
SURVEYED	
GRADES CHECKED	
NOTE BOOK NO.	
STRUCTURE NOTATIONS CHECKED	

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
n:\dgn\va\va327\sheet\va327-bridge.plan	lev.dgn	CHECKED -	REVISED -
PLOT SCALE = 1/8" = 10.00' / IN.		DRAWN -	REVISED -
PLOT DATE = 11/14/2008		CHECKED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BRIDGE PLAN AND ELEVATION

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00050-00-BT	KANE	15	7
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 63097	