

ineering Associates. In
 Argus Drive
 Rockford, Illinois 61107-5837

 5) 398-2332
 FAX (815) 398-2496

 Design Firm License:
 Illinois 184-000816

 Copyright 2012 By McClure Engineering Associates, Inc.
7282 Argus Drive (815) 398-2332

Drainage	Area	= 6.32	SQ.MI.	Low Grade	Elev. =	721.5	@ Sta.	8+00		
("la - J		Freq.	Q	Opening	Sq. Ft.		Nat.			
Flood	Yr.		C.F.S.	Exist.	Pro	p.	H.W.E.			
Design		50	2030	254.0	254	.0	719.46			
Base		100	2200	268.0	268	.0	719,8	32		
Max calc.		500	N/A		1					

Standard Specifications for Highway Bridges".

Jeffing T Tomit 12/15/11 14 SHE ILLINOIS STRUCTURAL NO. 081-004880 (Expires 11/30/12)

HIGHWAY CLASSIFICATION

Garden Plain Avenue ADT: 310 (2012) Functional Class: Local Street (Urban)

Posted Speed: not posted Design Speed: 30 mph

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications 4th Edition with 2008 and 2009 Interims.

85547

LOADING HL-93

Allow 50# / sa. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS

f'c = 3500 psi (Class P Concrete Substructure) fy = 60.000 psi (reinforcement)

PRECAST PRESTRESSED UNITS

f'c = 6,000 psi f'ci = 5,000 psi fpu = 270,000 psi (1/2" ØLow Relaxation strands) fpbt = 201,960 psi (1/2" ØLow Relaxation strands)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1 Design Spectral Acceleration at 1.0 sec. S_{D1} = 0.075g Design Spectral Acceleration at 0.2 sec. $S_{DS} = 0.160g$ Soil Site Class = D

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft) N/A N/A N/A		S. Abut.	Pier 1	N. Abut.
-	Design Scour Elevation (ft)	. N/A	N/A	N/A

Concrete lined channel Scour elevation not applicable

<u>GENERAL PLAN AND ELEVATION</u>								
GARDEN PLAIN AVENUE OVER LOVES PARK CREEK								
SECTION 08-00069-00-BR								
WINNEBAGO COUNTY								
STATION 10+00.00								
STRUCTURE NO. 101-6421								

NO. S1	F.A.S. RTE.	SECTION						COUNTY	TOTAL SHEETS		SHEET NO.	
NO: 31		1	08-00	06	9-00-BR	1		WINNEBAGO	21		7	
EETS					CONTRACT	NO. 8	35	547				
	FED. R	OAD DIS	ST. NO.	_	ILLINOIS	FED.	AID	PROJECT				