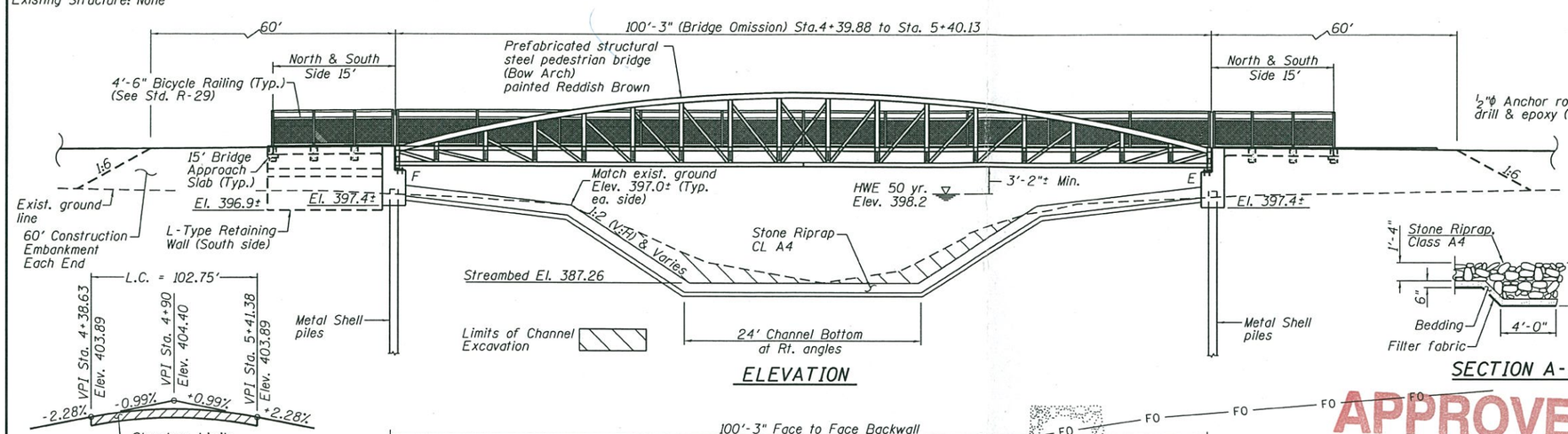
Bench Mark: B291 (Reset) Disk in N.E. Wingwall, Top of S.N. 039-0071
Elev. 404.550

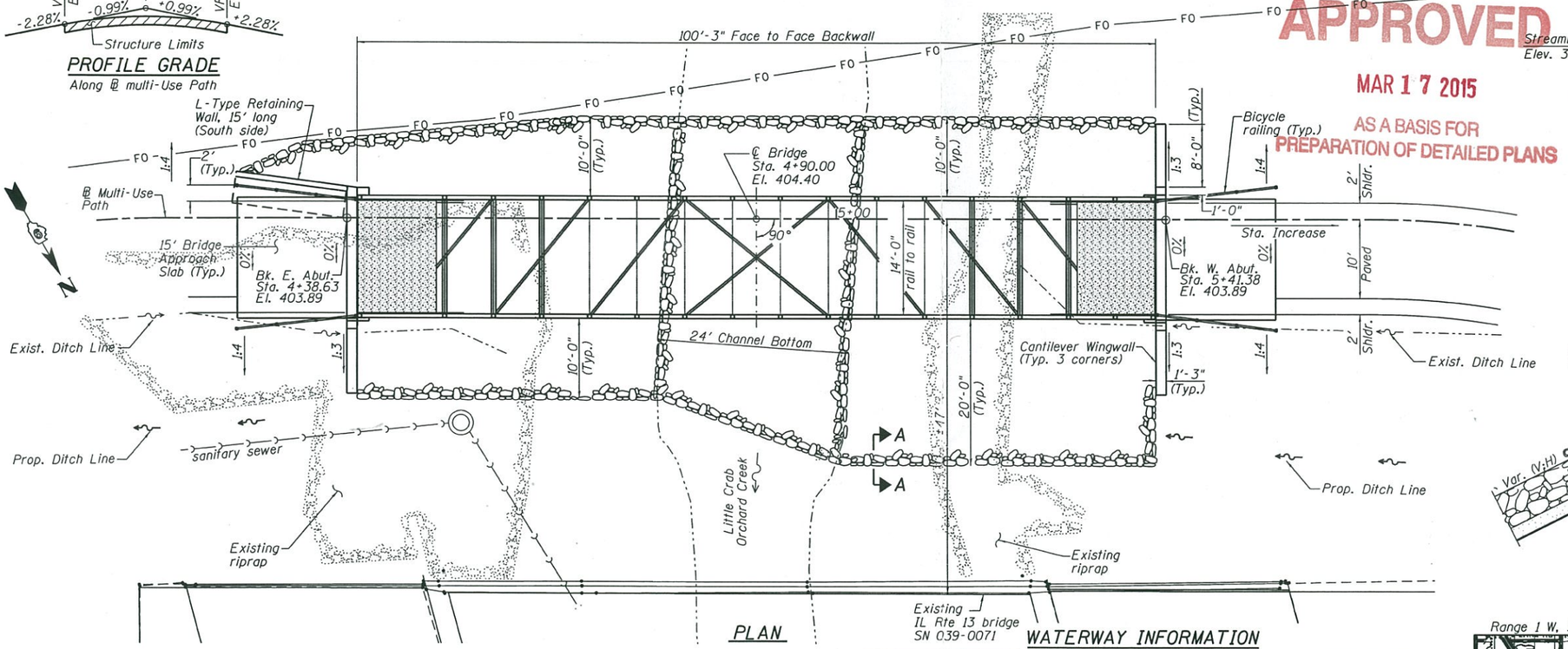
Existing Structure: None



ELEVATION

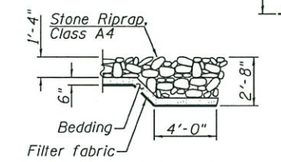
PROFILE GRADE

Along ℄ multi-Use Path

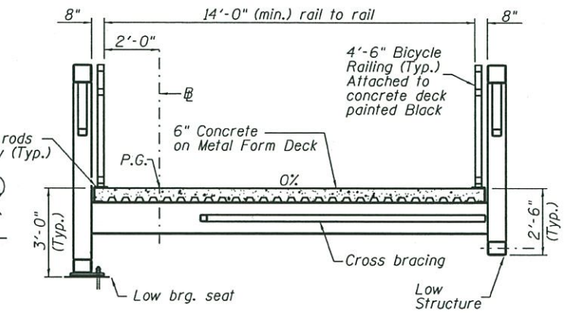


PLAN

APPROVED
MAR 17 2015
AS A BASIS FOR PREPARATION OF DETAILED PLANS

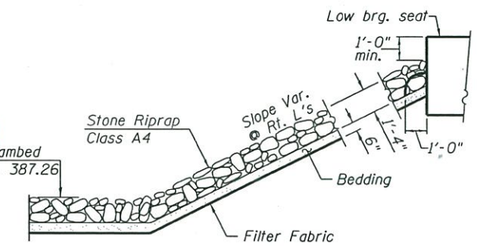


SECTION A-A

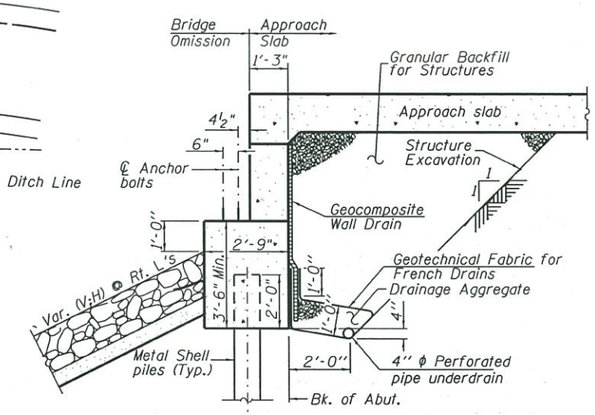


TYPICAL SECTION

(Looking West)



STONE RIPRAP TREATMENT TOE OF SLOPE



SECTION THRU ABUTMENT

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition
2009 LRFD Guide Specifications for the Design of Pedestrian Bridges, 2nd Edition

BORINGS

BORING	LOCATION
1-S	Sta. 4+64, 125' Rt.
2-S	Sta. 5+46, 131' Rt.

DESIGN SCOUR ELEVATION TABLE

Event/ Limit State	Design Scour Elevations (ft.)		Item 113
	W. Abut.	E. Abut.	
Design Q100	397.4	397.4	8
Check Q200	397.4	397.4	

LOADING

H10 (Maintenance Vehicle)
Pedestrian Live Load = 90 psf

DESIGN STRESSES

f'c = 3,500 psi (Cast-in-Place Concrete)
fy = 60,000 psi (Reinforcement)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 4
Design Spectral Acceleration at 1.0 sec (SD1) = 0.558g
Design Spectral Acceleration at 0.2 sec (SDS) = 0.911g
Soil Site Class = E

WATERWAY INFORMATION

Drainage Area = 6.9 Sq. Mi. Prop. Overtopping Elev. = 400.5 at Sta. 7+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.*	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.*	Head - Ft. Prop.	Headwater El. Exist.*	Headwater El. Prop.
	10	1710	367	417	396.9	0.0	0.0	396.9	396.9
Design	50	2760	451	507	398.2	0.4	0.4	398.6	398.6
Base	100	3230	473	530	398.5	0.7	0.7	399.2	399.2
Scour Check	200	3740	488	547	398.7	1.1	1.1	399.8	399.8
Max. Calc.	500	4450	510	572	399.0	1.8	1.8	400.8	400.8

10 Yr. velocity through Prop. Bridge=4.1 ft/s
*Note: Data listed in the "Exist." columns represents SN 039-0071 located 49' D/S carrying IL. 13 over little Crab Orchard Creek.

LOCATION SKETCH

GENERAL PLAN
PEDESTRIAN BRIDGE OVER
LITTLE CRAB ORCHARD CREEK
SECTION B-2
JACKSON COUNTY
STATION 4+90.00
STRUCTURE NO. 039-9974

L:\DOT\080660\WO_14\Drawings\Sheets\D978375-TSL-Final-Gen plan.dgn

CMT

USER NAME =	DESIGNED - MJL	REVISED -	
	CHECKED - WLB	REVISED -	
PLOT SCALE =	DRAWN - GLD	REVISED -	
PLOT DATE =	CHECKED - JMM	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
STRUCTURE NO. 039-9974

SHEET NO. 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	B-2	JACKSON		

CONTRACT NO. 78375

ILLINOIS FED. AID PROJECT