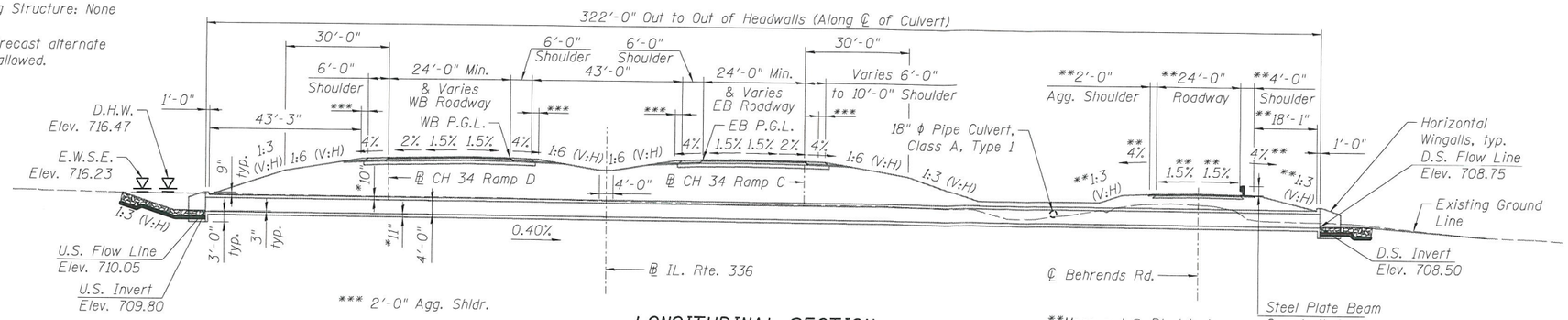
Bench Mark: CB-25 RR Spike in a utility pole ±240 feet south of intersection of Hanna City - Glasford Blacktop and Behrends Road. 0.8 mile south of junction with IL. Rte. 116. Elev. 726.670 (NAVD 88)

Existing Structure: None

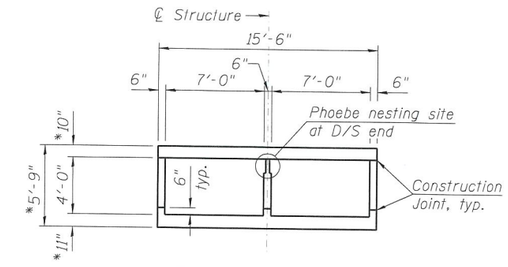
Note: Precast alternate is not allowed.



LONGITUDINAL SECTION

(Along ℄ of Culvert)

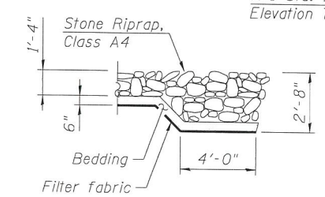
Dimensions measured @ Rt. L's to ⊕ IL Rte. 336 unless noted otherwise



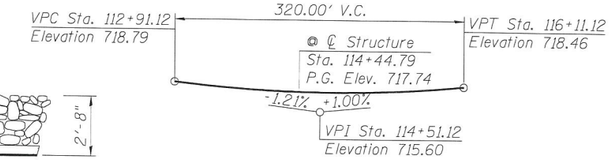
SECTION THROUGH BARREL

(@ Rt. L's to ℄ Structure)

* Top & Bottom Slab thickness subject to refinement in final design.

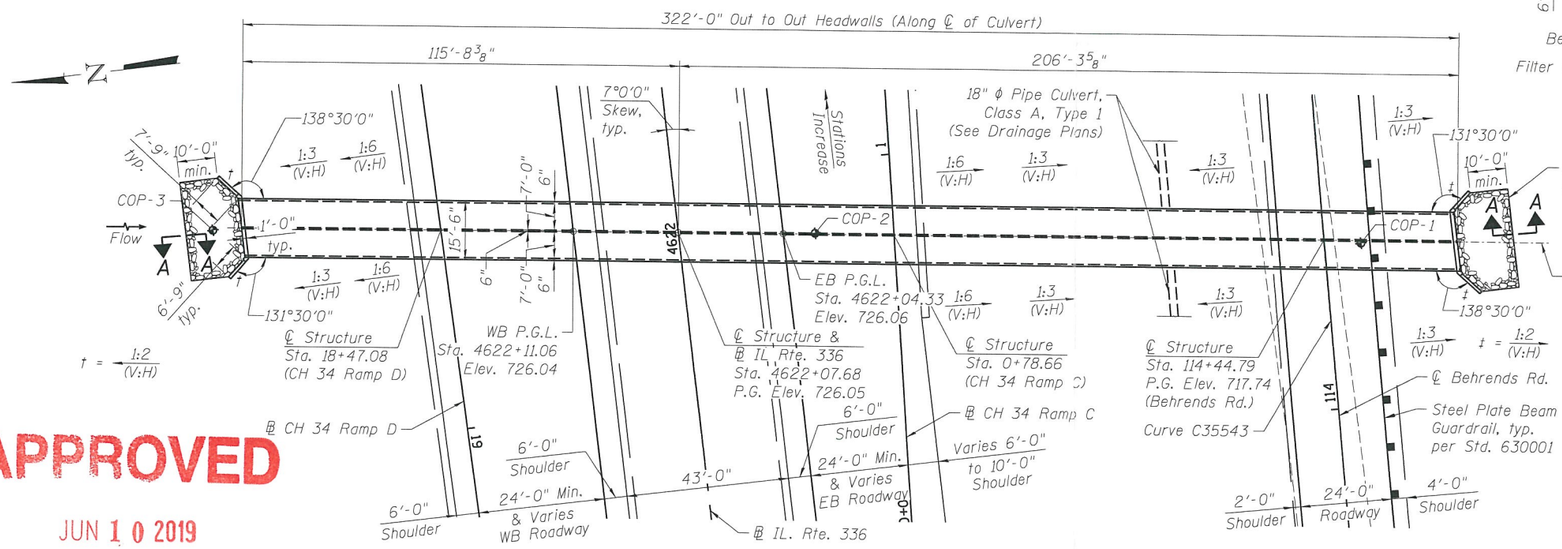


SECTION A-A

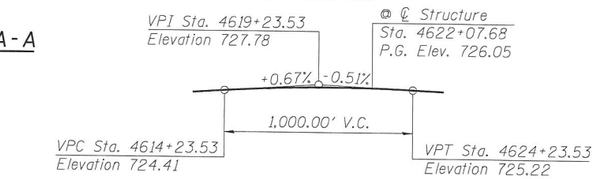


PROFILE GRADE

(Behrends Rd.)



PLAN



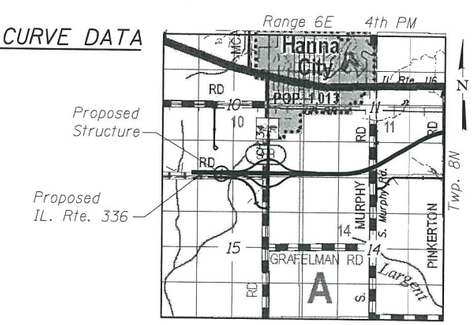
PROFILE GRADE

(IL. Rte. 336)

(Along EB & WB P.G.L.'s)

BEHRENDS RD. CURVE DATA

Prop. Curve C35543
PI STA. = 113+45.67
Δ = 3° 46' 09" (RT)
D = 0° 42' 58"
R = 8,000.00'
T = 263.23'
L = 526.28'
E = 4.33'
e = NC
T.R. = N/A
S.E. RUN = N/A
P.C. STA = 110+82.44
P.T. STA = 116+08.71



LOCATION SKETCH

APPROVED

JUN 10 2019

AS A BASIS FOR PREPARATION OF DETAILED PLANS

WATERWAY INFORMATION

Drainage Area = 0.4 sq. mi. Existing Low Grade Elevation= N.A. ft. @ Sta.
Proposed Low Grade Elevation= 722.78 ft. @ Sta. 4629+00

Flood	Frequency Year	Discharge (cfs)	Waterway Opening (sq. ft.) Existing	Waterway Opening (sq. ft.) Proposed	Natural H.W.E.	Head (ft.) Existing	Head (ft.) Proposed	Headwater Elev. Existing	Headwater Elev. Proposed
	10	167	-	56	716.2	-	0.2	-	716.4
Design	50	261	-	56	716.5	-	0.2	-	716.7
Base	100	303	-	56	716.6	-	0.2	-	716.8
Overtopping			-		-	-	-	-	-
Max. Calc.	500	405	-	56	716.8	-	0.3	-	717.1

LEGEND

◆ - Soil Boring Location

HIGHWAY CLASSIFICATION

FAP Rte. 315 - IL. Rte. 336
Functional Class: Freeway
ADT: 7700 (2015); 9400 (2035)
ADTT: 770 (2015); 940 (2035)
DHV: 1030 (2035)
Design Speed: 70 m.p.h.
Posted Speed: 65 m.p.h.
2 -Way Traffic
Directional Distribution: 50/50

LOADING HL-93

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

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi (Concrete)
fy = 60,000 psi (Reinforcement)

GENERAL PLAN
IL RTE. 336 OVER
EAST BRANCH COPPERAS CREEK
FAP 315 - SEC. 72-1
PEORIA COUNTY
STATION 4622+07.68
STRUCTURE NO. 072-2508

AECOM

USER NAME = dabezlcd	DESIGNED - DD	REVISED -	
	CHECKED - ATB	REVISED -	
PLOT SCALE =	DRAWN - GF	REVISED -	
PLOT DATE = 6/3/2019	CHECKED - DD	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 1 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	72-1	PEORIA	1	1

CONTRACT NO. 68A04

ILLINOIS FED. AID PROJECT

D468A04-072-2508-SHT-001-Copperas.dgn