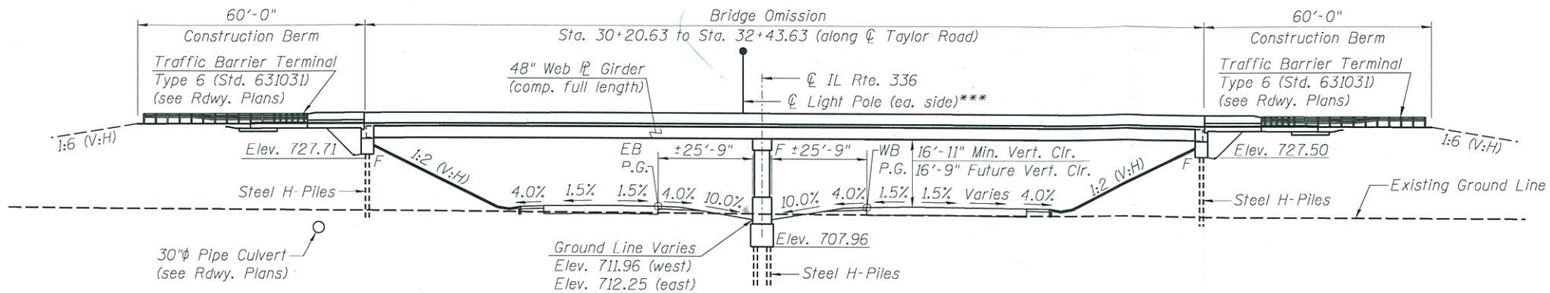
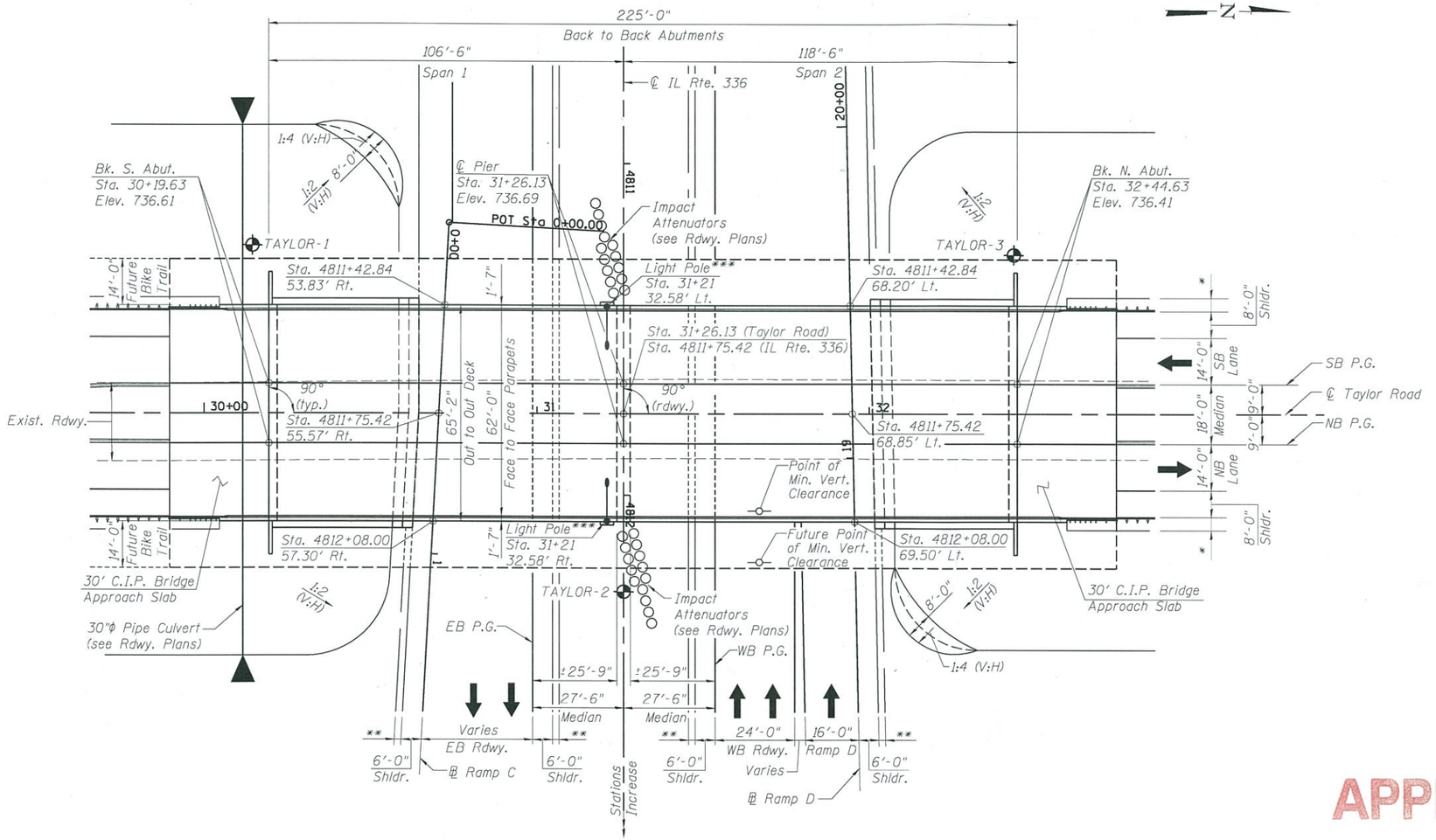
Bench Mark: CB-15, RR spike in utility pole at NE corner of IL Rte. 116 & Taylor Road. Elev. 725.140 (NAVD 88).

Existing Structure: None

Traffic Control: Taylor Road traffic will be detoured via local roads during construction.



ELEVATION



PLAN

* 4'-0" Agg. Shldr.
** 2'-0" Agg. Shldr.
*** Alum. light poles are 10"ϕ (15"ϕ bolt circle), have height of 45', support 10' mast arms, & are mounted on parapets above the pier (see Electrical Plans for further details).

HIGHWAY CLASSIFICATION

F.A.S. Rte. 386 (Taylor Road)
Functional Class: Major Collector
ADT: 2,500 (2015); 3,000 (2035)
ADTT: 300 (2015); 360 (2035)
DHV: 280 (2035)
Design Speed: 60 m.p.h.
Posted Speed: 55 m.p.h.
Two-Way Traffic
Directional Distribution: 50:50

F.A.P. Rte. 315 (IL Rte. 336)
Functional Class: Freeway
ADT: 7,700 (2015); 9,400 (2035)
ADTT: 770 (2015); 940 (2035)
DHV: 1,030 (2035)
Design Speed: 70 m.p.h.
Posted Speed: 65 m.p.h.
Two-Way Traffic
Directional Distribution: 50:50

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications,
6th Edition with 2013 Interim Revisions

LOADING HL-93

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

DESIGN STRESSES

FIELD UNITS

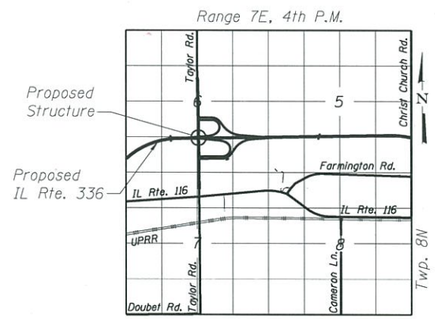
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50)
fy = 36,000 psi (M270 Grade 36)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.079g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.130g
Soil Site Class = C

SETTLEMENT DATA

According to settlement calculations in the Structure Geotechnical Report, 6.0 inches of settlement is predicted to occur under proposed approach embankments. Wick drains will be utilized for the approach embankments providing a T90 time of 3 months (see Rdwy. Plans for further details).



LOCATION SKETCH

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

GENERAL PLAN & ELEVATION
TAYLOR ROAD OVER IL RTE. 336
F.A.P. RTE. 315 - SEC. 72-1
PEORIA COUNTY
STATION 4811+75.42
STRUCTURE NO. 072-0239

AECOM

USER NAME = dabezicd	DESIGNED - PJL	REVISED - 10/29/13	
	CHECKED - CLS	REVISED -	
PLOT SCALE = 20.0000'/IN.	DRAWN - DLC	REVISED -	
PLOT DATE = 3/2/2015	DATE - 03/02/15	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 2 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	72-1	PEORIA		
		CONTRACT NO. 68A04		
	ILLINOIS FED. AID PROJECT			

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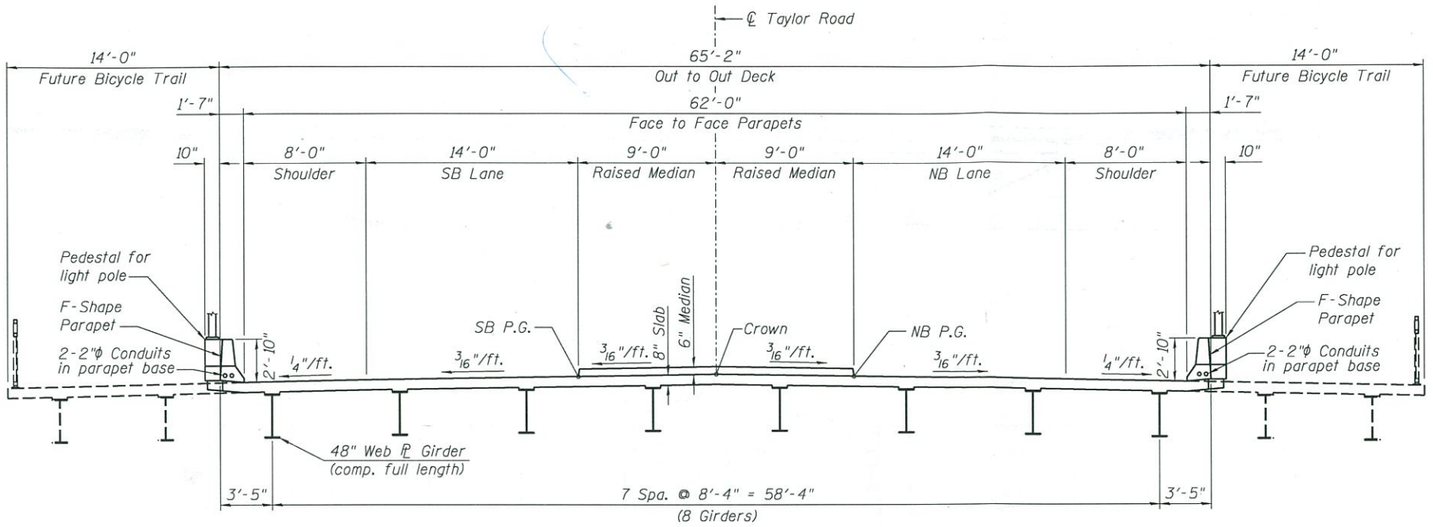
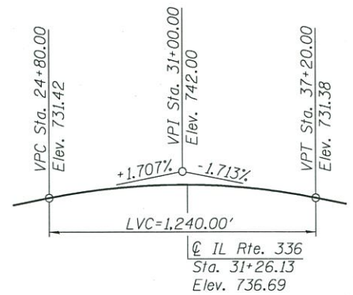
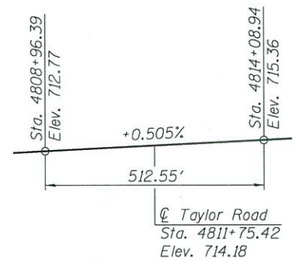


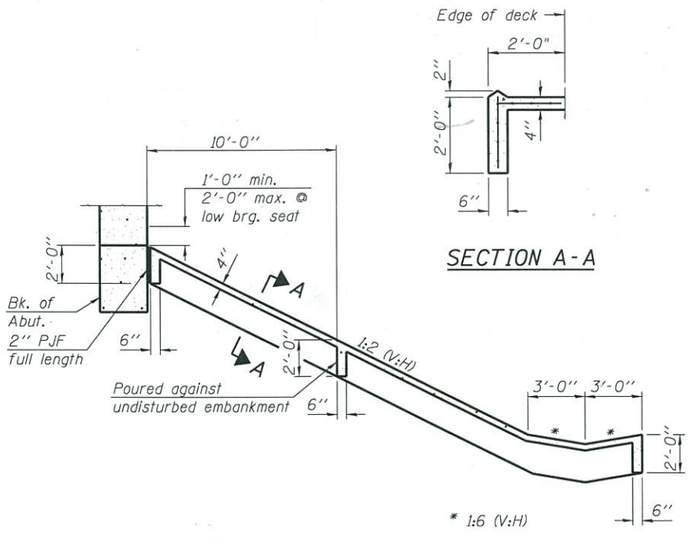
CROSS SECTION
(Looking North)



PROFILE GRADE - TAYLOR ROAD
(along proposed NB & SB P.G.L.)

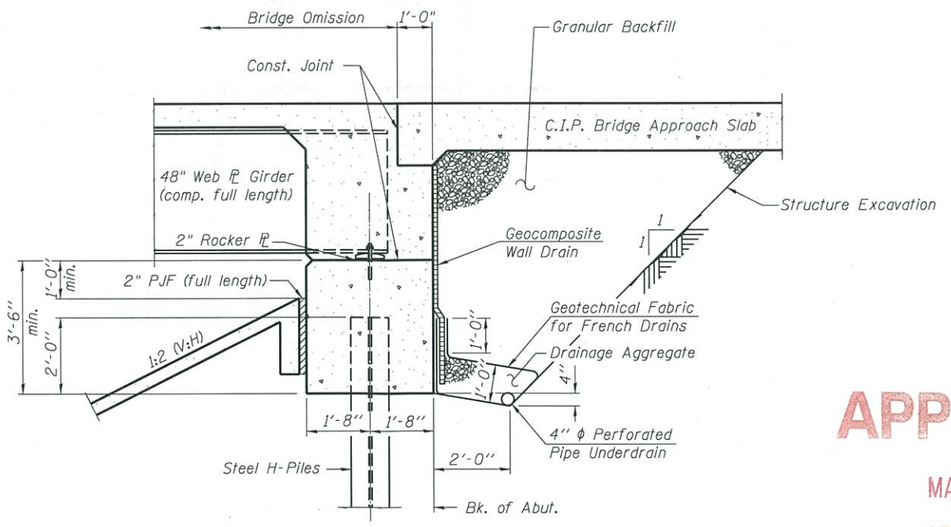


PROFILE GRADE - IL RTE. 336
(along proposed EB & WB P.G.L.)

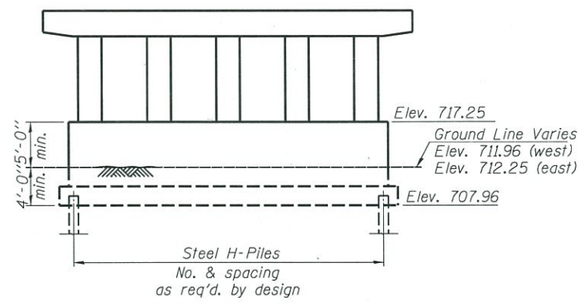


SECTION A-A

SECTION THRU CONCRETE SLOPEWALL



SECTION THRU INTEGRAL ABUTMENT



PIER SKETCH

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

DETAILS
TAYLOR ROAD OVER IL RTE. 336
F.A.P. RTE. 315 - SEC. 72-1
PEORIA COUNTY
STATION 4811+75.42
STRUCTURE NO. 072-0239

AECOM

USER NAME = patelp2	DESIGNED - PJL	REVISED -
	CHECKED - CLS	REVISED -
PLOT SCALE = 20.0000'/IN.	DRAWN - DLC	REVISED -
PLOT DATE = 3/2/2015	DATE - 03/02/15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 2 OF 2 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	72-1	PEORIA		
		CONTRACT NO. 68A04		
	ILLINOIS FED. AID PROJECT			

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