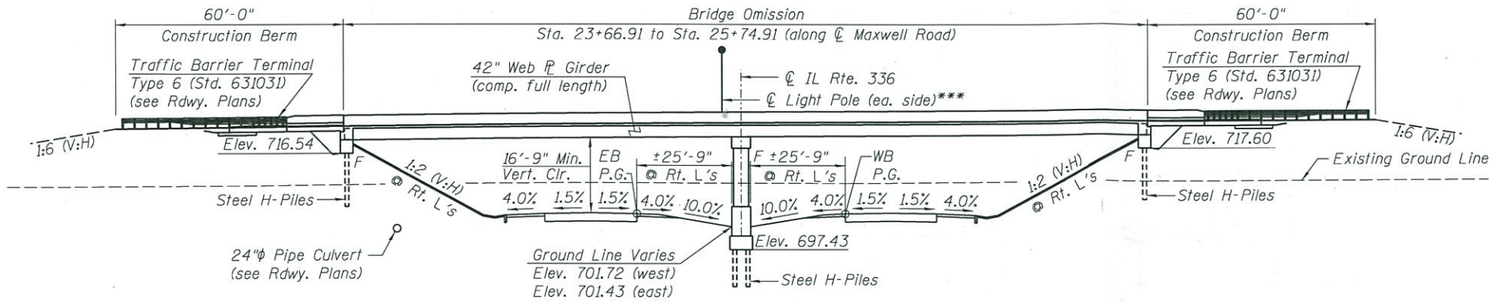
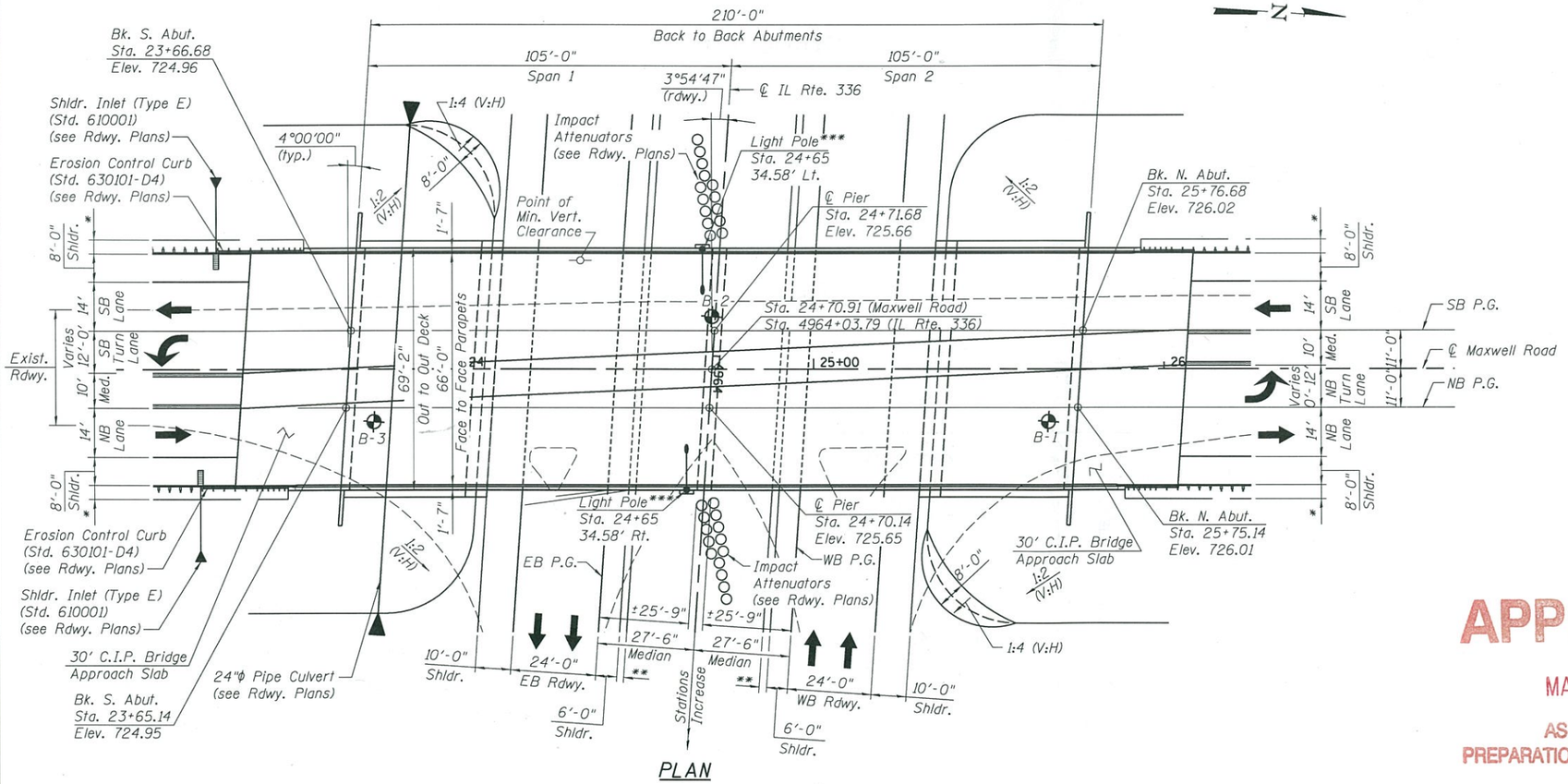
Bench Mark: NGS Triangulation Station Disk (standard bronze disk in concrete) on North side of the Peoria County Jail, SE of parking lot for large metal building in grass, North of Kuckyinski Circle, Elev. 711.051 (NAVD 88).

Existing Structure: None

Traffic Control: Maxwell Road traffic will be maintained using a runaround detour 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.P. Rte. 671 (Maxwell Road)	F.A.P. Rte. 315 (IL Rte. 336)
Functional Class: Other Principal Arterial	Functional Class: Freeway
ADT: 10,000 (2015); 8,700 (2035)	ADT: 7,700 (2015); 9,400 (2035)
ADTT: 1,000 (2015); 870 (2035)	ADTT: 770 (2015); 940 (2035)
DHV: 950 (2035)	DHV: 1,030 (2035)
Design Speed: 40 m.p.h.	Design Speed: 70 m.p.h.
Posted Speed: 35 m.p.h.	Posted Speed: 65 m.p.h.
Two-Way Traffic	Two-Way Traffic
Directional Distribution: 50:50	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

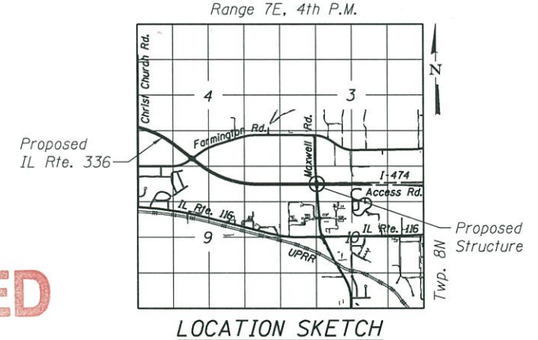
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50)
fy = 36,000 psi (M270 Grade 36)

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}) = 0.132g
Soil Site Class = C

SETTLEMENT DATA

According to settlement calculations in the Structure Geotechnical Report, 3.0 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 less than 1 month (see Rdwy. Plans for details).



LOCATION SKETCH

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

GENERAL PLAN & ELEVATION
MAXWELL ROAD OVER IL RTE. 336
F.A.P. RTE. 315 - SEC. 72-1
PEORIA COUNTY
STATION 4964+03.79
STRUCTURE NO. 072-0243

USER NAME = patelp2	DESIGNED - DD	REVISED -	
	CHECKED - CLS	REVISED -	
PLOT SCALE = 40.0000 ' / in.	DRAWN - DLC	REVISED -	
PLOT DATE = 3/2/2015	DATE - 03/02/15	REVISED -	

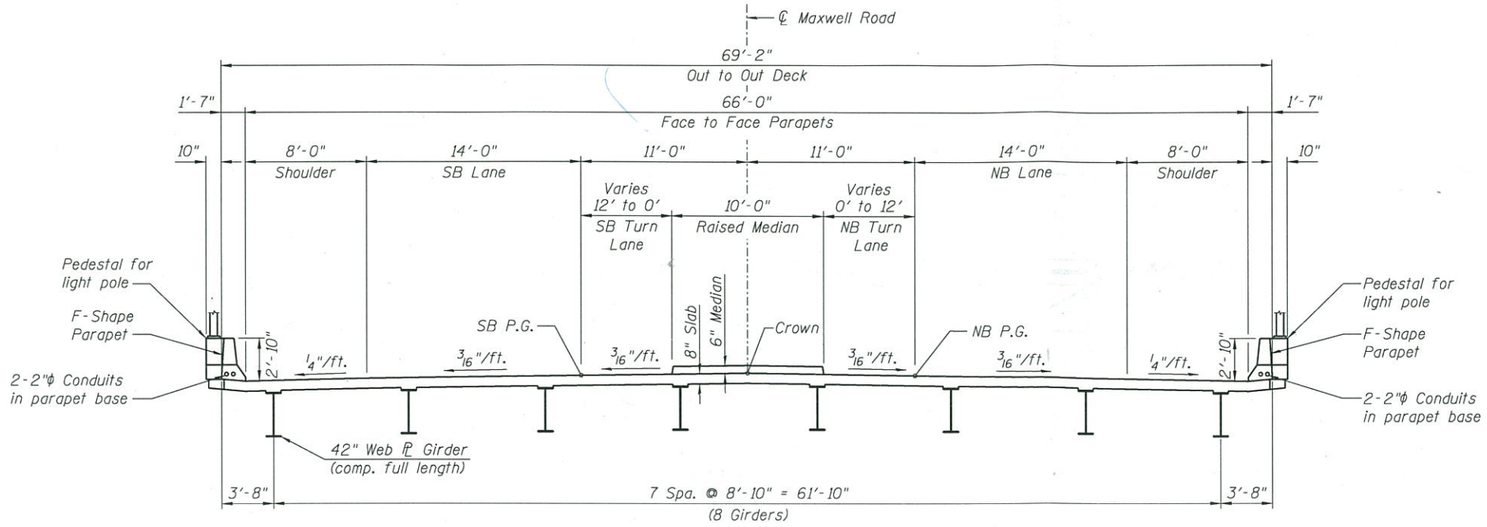
AECOM

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

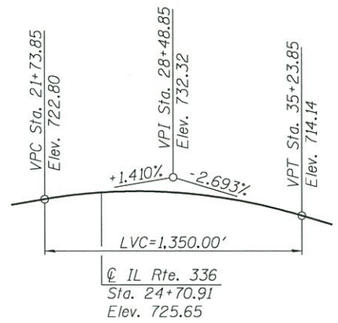
SHEET NO. 1 OF 2 SHEETS

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

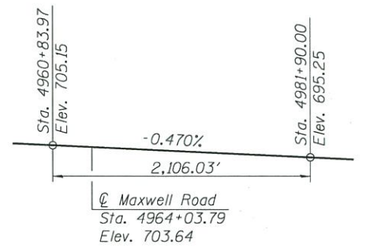
P:\60216233\000_CAD\Struct\Sht\072-0243-Maxwell\TSL\CHI-D468A04-072-0243-Maxwell-TSL.dgn



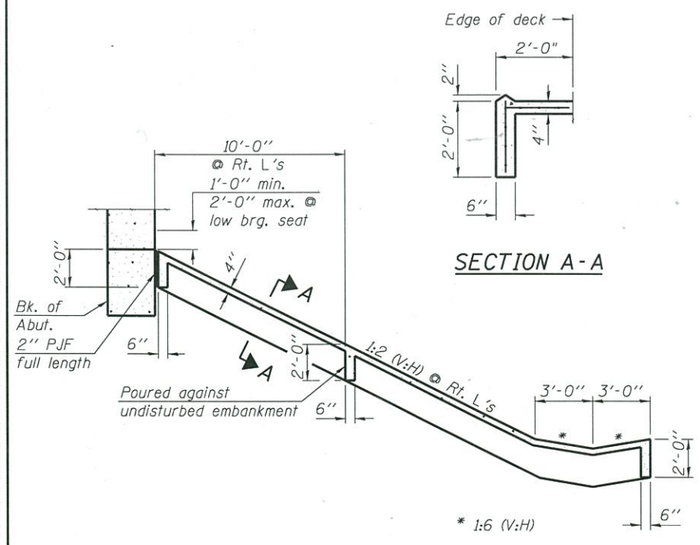
CROSS SECTION
(Looking North)



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

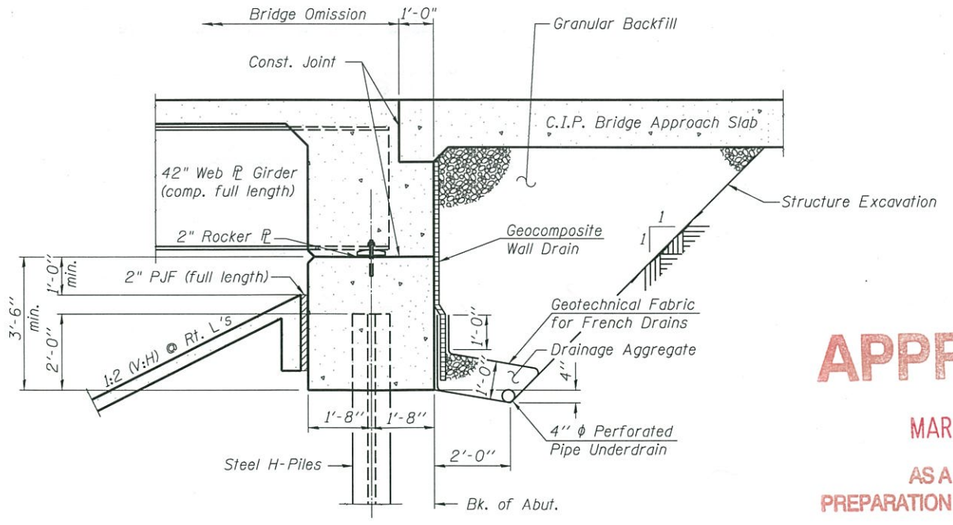


PROFILE GRADE - IL RTE. 336
(along proposed EB & WB P.G.L.)

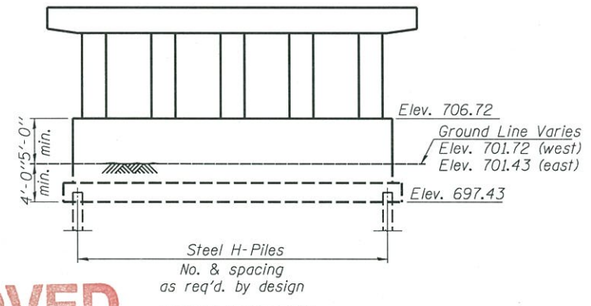


SECTION A-A

SECTION THRU CONCRETE SLOPEWALL



SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)



PIER SKETCH

APPROVED

MAR 17 2015

AS A BASIS FOR
PREPARATION OF DETAILED PLANS

DETAILS
MAXWELL ROAD OVER IL RTE. 336
F.A.P. RTE. 315 - SEC. 72-1
PEORIA COUNTY
STATION 4964+03.79
STRUCTURE NO. 072-0243

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AECOM

USER NAME = patelp2	DESIGNED - DD	REVISED -
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PLOT SCALE = 40.0000 '/ 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			