Bench Mark: CB-24. RR spike in utility pole on West side of Murphy Road across from brown brick house @ 516 Murphy Road, ±0.5-mile South of intersection with IL Rte. 116, Elev. 723.853 (NAVD 88).

Existing Structure: None

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

HIGHWAY CLASSIFICATION

Murphy Road	F.A.P. Rte. 315 (IL Rte. 336)
Functional Class: Local Road	Functional Class: Freeway
ADT: 160 (2015); 400 (2035)	ADT: 7,700 (2015); 9,400 (2035)
ADTT: 10 (2015); 20 (2035)	ADTT: 770 (2015); 940 (2035)
DHV: 55 (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)

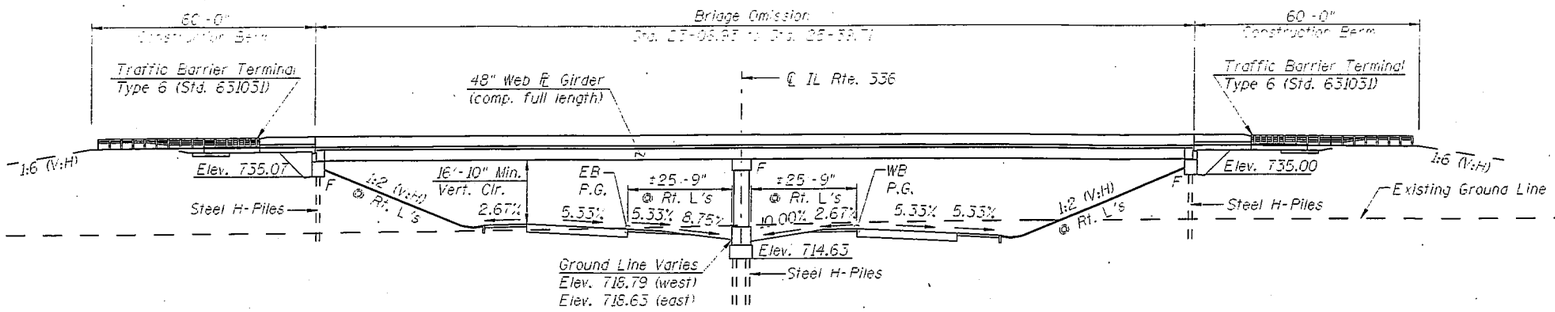
SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.080g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.132g
Soil Site Class = C

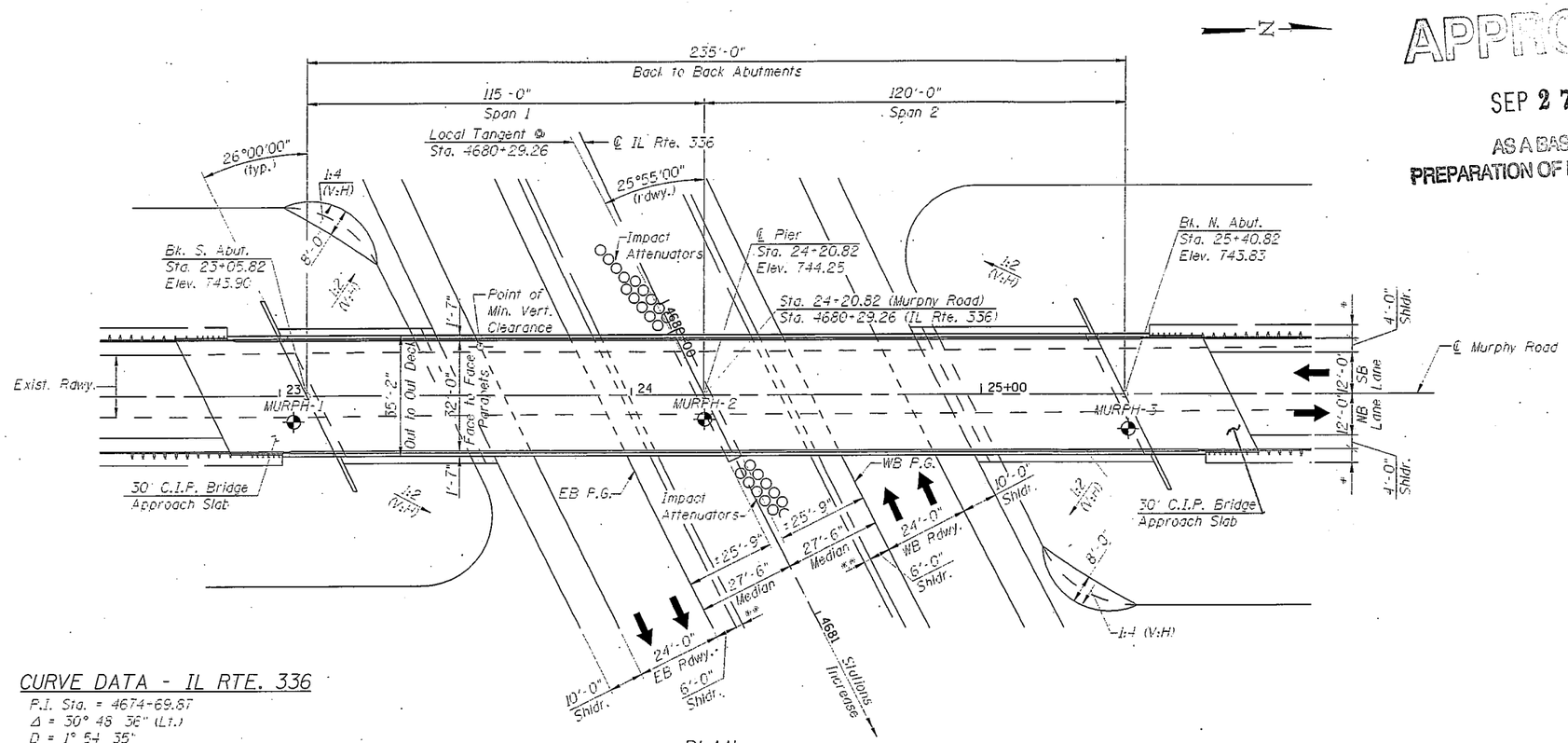
SETTLEMENT DATA

According to settlement calculations in the structure geotechnical report, settlement will not exceed 2.0 inches and the T_{90} time will be less than 1 month.

APPROVED
SEP 27 2013
AS A BASIS FOR
PREPARATION OF DETAILED PLANS



ELEVATION

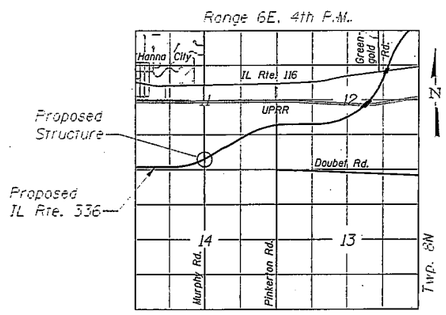


PLAN

*4'-0" Agg. Shldr.
**2'-0" Agg. Shldr.

CURVE DATA - IL RTE. 336

P.I. Sta. = 4674+69.87
Δ = 30° 48' 36" (Lt.)
D = 1° 54' 35"
R = 3,000.00'
T = 826.62'
L = 1,615.20'
E = 111.80'
S.E. = 5.33%
T.R. = 40.00'
S.E. Run = 240.00'
P.C. Sta. = 4666+43.25
P.T. Sta. = 4682+56.45



LOCATION SKETCH

GENERAL PLAN & ELEVATION
MURPHY ROAD OVER IL RTE. 336
F.A.P. RTE. 315 - SEC. 72-1
PEORIA COUNTY
STATION 4680+29.26
STRUCTURE NO. 072-0234

AECOM

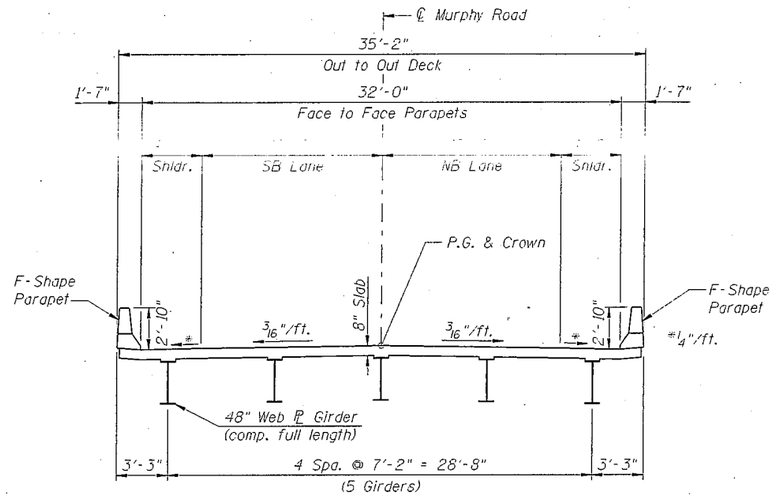
USER NAME = IDOT	DESIGNED - PJL	REVISED -	
	CHECKED - CLS	REVISED -	
PLOT SCALE = 40.0000 ' / IN.	DRAWN - DLC	REVISED -	
PLOT DATE = 9/6/2013	DATE - 09/06/13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

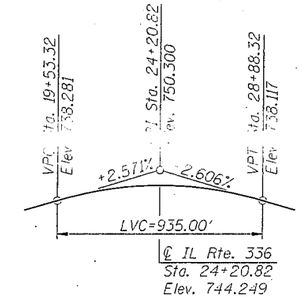
SHEET NO. 1 OF 2 SHEETS

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

V:\PROJECTS\60216233\000.CAD\Struct\Sht\072-0234-Murphy\TSL\D468A04-072-0234-SHT-001-Murphy-TSL.dgn

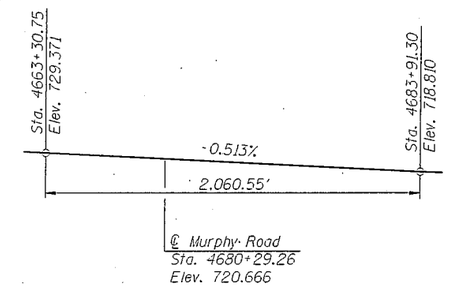


CROSS SECTION
(Looking North)

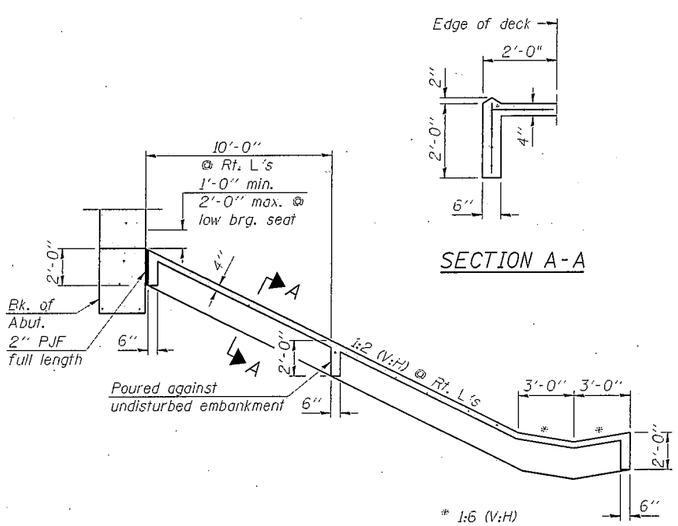


PROFILE GRADE - MURPHY ROAD
(along proposed ℄ roadway)

APPROVED
SEP 27 2013
AS A BASIS FOR
PREPARATION OF DETAILED PLANS

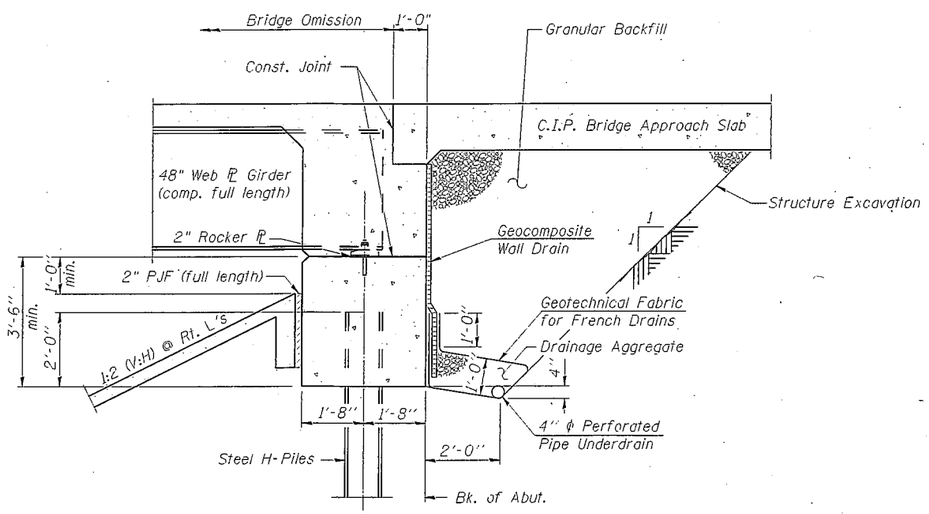


PROFILE GRADE - IL RTE. 336
(along proposed EB & WB P.G.L.)

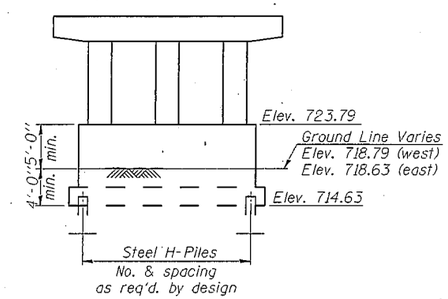


SECTION A-A

SECTION THRU CONCRETE SLOPEWALL



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



PIER SKETCH

DETAILS
MURPHY ROAD OVER IL RTE. 336
F.A.P. RTE. 315 - SEC. 72-1
PEORIA COUNTY
STATION 4680+29.26
STRUCTURE NO. 072-0234

K:\PROJECTS\60216233\000_CAD\Struct\Sht\072-0234-Murphy\TSL\D468A04-072-0234-SHt-002-Murphy-TSL.dgn

AECOM	USER NAME = IDOT	DESIGNED - PJL	REVISED -
		CHECKED - CLS	REVISED -
	PLOT SCALE = 40.0000 ' / IN.	DRAWN - DLC	REVISED -
	PLOT DATE = 9/6/2013	DATE - 09/06/13	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		