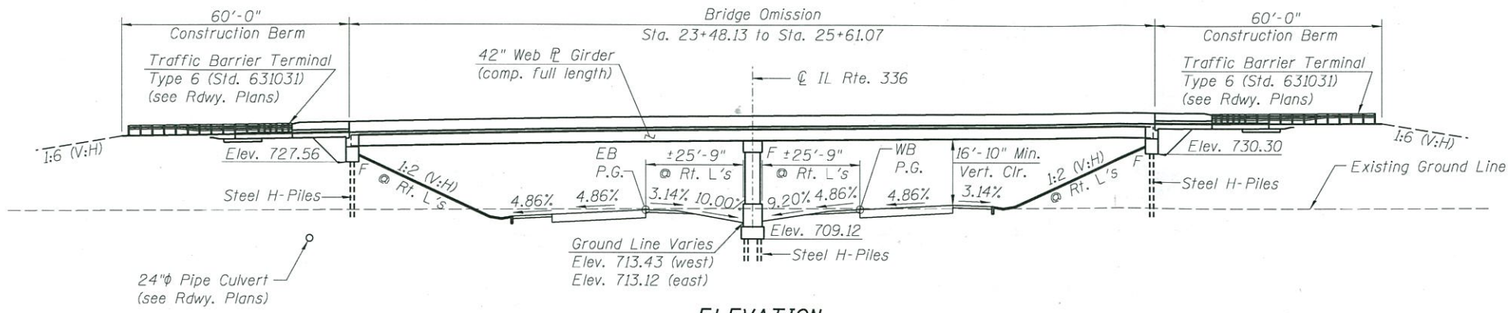
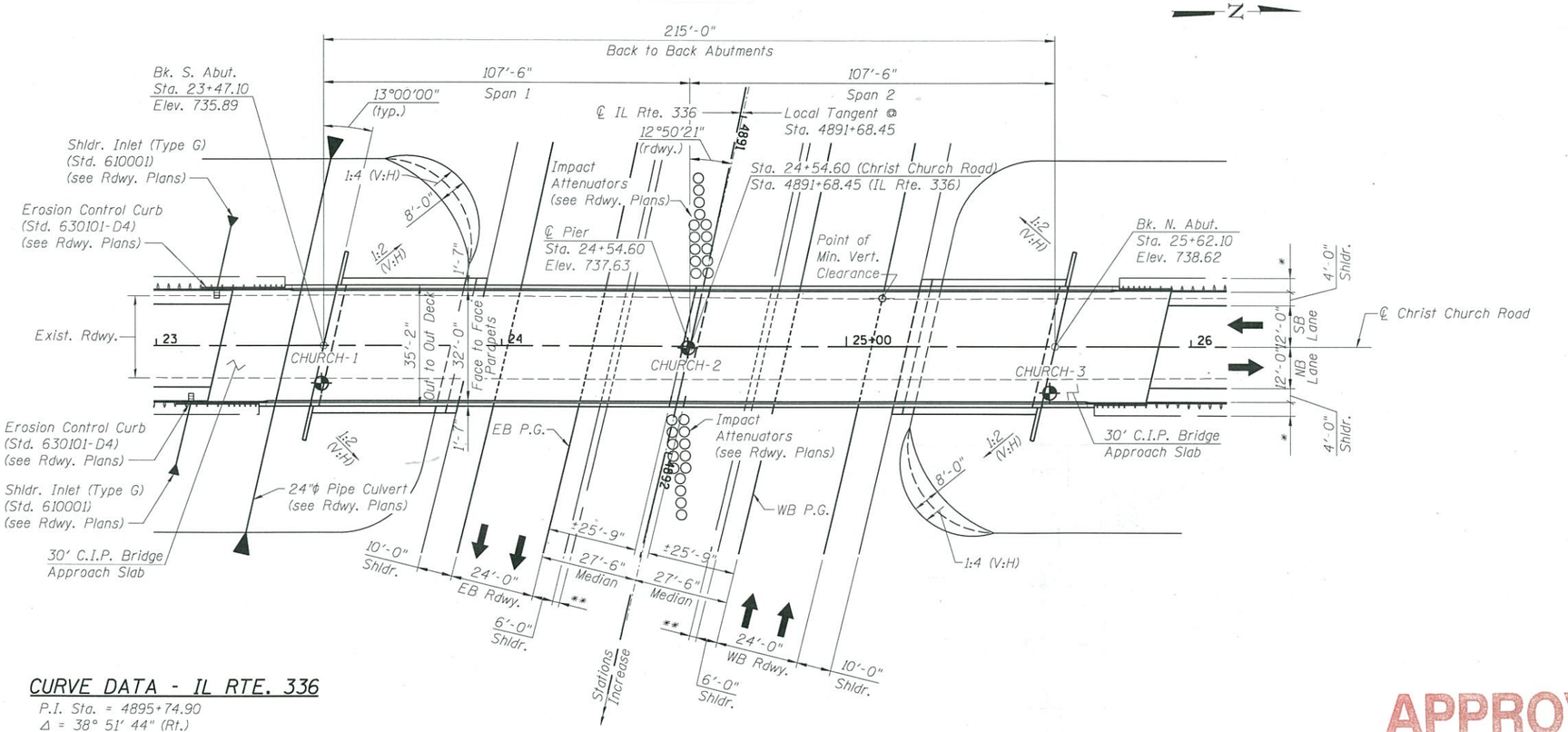
Bench Mark: CB-22, RR spike in utility pole on the West side of Christ Church Road, ±900' North of intersection with Farmington Road, Elev. 713.307 (NAVD 88).

Existing Structure: None

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




## ELEVATION




## PLAN

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

## CURVE DATA - IL RTE. 336

P.I. Sta. = 4895+74.90
Δ = 38° 51' 44" (Rt.)
D = 1° 38' 13"
R = 3,500.00'
T = 1,234.68'
L = 2,373.96'
E = 211.39'
S.E. = 4.86%
T.R. = 40.00'
S.E. Run = 220.00'
P.C. Sta. = 4883+40.22
P.T. Sta. = 4907+14.17

## HIGHWAY CLASSIFICATION

Christ Church Road
Functional Class: Local Road
ADT: 500 (2015); 600 (2035)
ADTT: 25 (2015); 30 (2035)
DHV: 65 (2035)
Design Speed: 50 m.p.h.
Posted Speed: 45 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

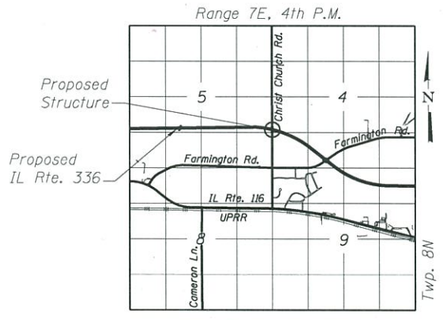
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50)
fy = 36,000 psi (M270 Grade 36)

## 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. ($S_{DS}$) = 0.131g
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 1 to 3 months (see Rdwy. Plans for details).




LOCATION SKETCH

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

# GENERAL PLAN & ELEVATION
# CHRIST CHURCH ROAD OVER IL RTE. 336
# F.A.P. RTE. 315 - SEC. 72-1
# PEORIA COUNTY
# STATION 4891+68.45
# STRUCTURE NO. 072-0240

| | | | |
|---|---|---|---|
| AECOM | USER NAME = dabezicd | DESIGNED - PJL | REVISED - |
| | | CHECKED - CLS | REVISED - |
| | PLOT SCALE = 42.0000 ' / 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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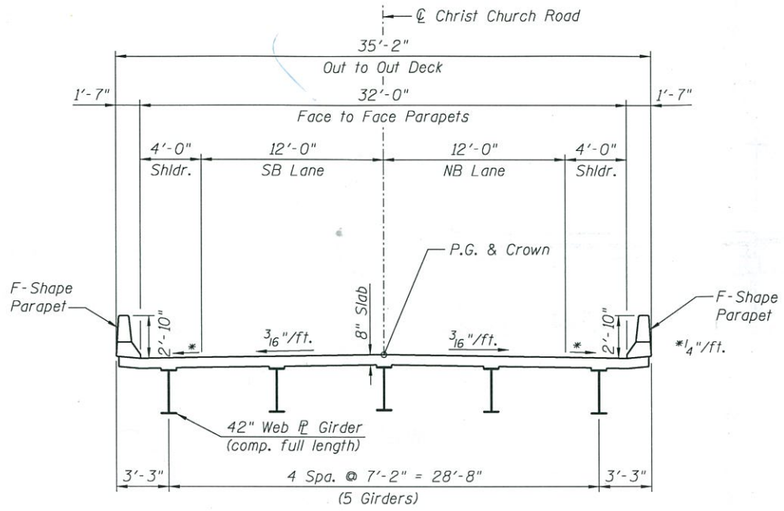
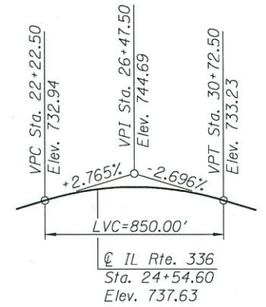
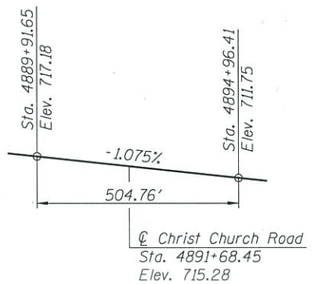


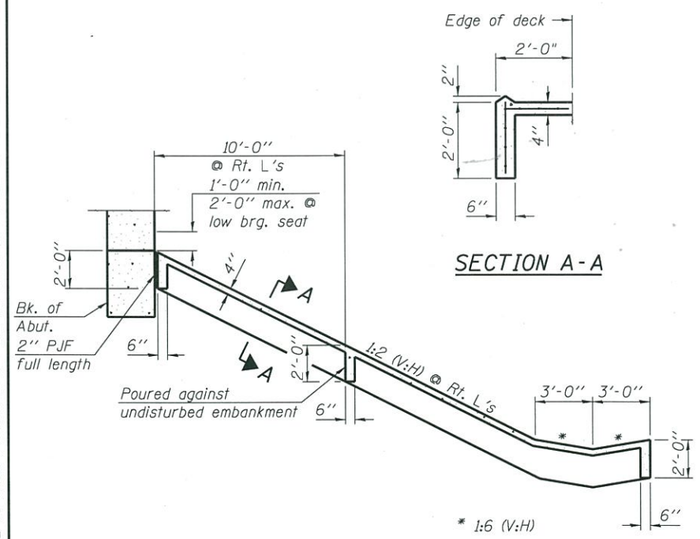

## CROSS SECTION
(Looking North)



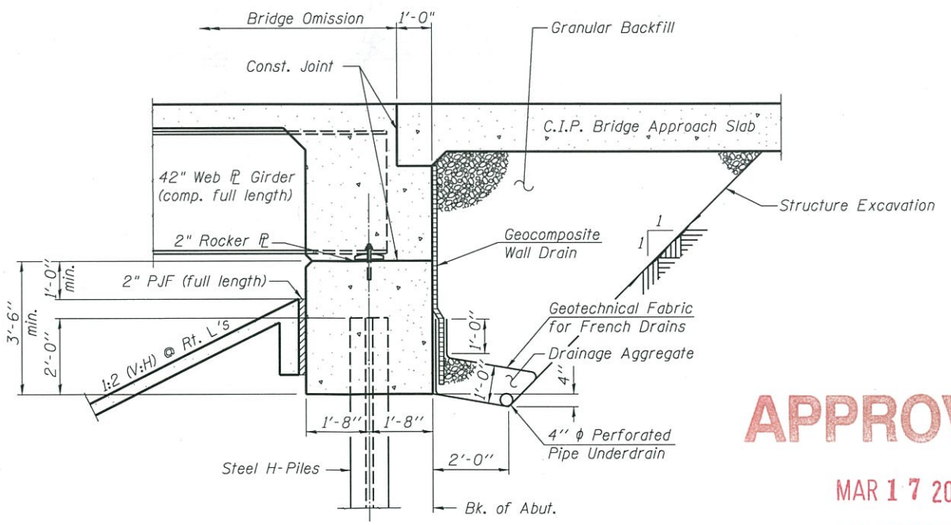

## PROFILE GRADE - CHRIST CHURCH ROAD
(along proposed ℄ roadway)



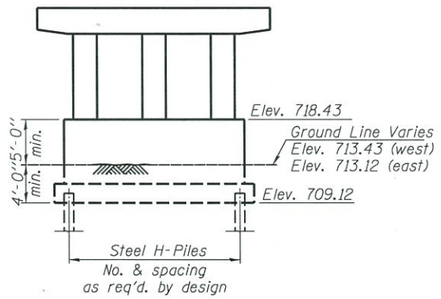

## PROFILE GRADE - IL RTE. 336
(along proposed EB & WB P.G.L.)




## 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
# CHRIST CHURCH ROAD OVER IL RTE. 336
# F.A.P. RTE. 315 - SEC. 72-1
# PEORIA COUNTY
# STATION 4891+68.45
# STRUCTURE NO. 072-0240

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AECOM

| | | | |
|---|---|---|---|
| USER NAME = patelp2 | DESIGNED - PJL | REVISED - | |
| | CHECKED - CLS | REVISED - | |
| 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 | | |