



**TRANSPORTATION CABINET**

Frankfort, Kentucky 40622  
www.transportation.ky.gov/

**Steven L. Beshear**  
Governor

**Michael W. Hancock, P.E.**  
Secretary

November 10, 2014

CALL NO. 201  
CONTRACT ID NO. 141291  
ADDENDUM # 2

Subject: Fayette County, 121GR14D091-NHPP & JL04  
Letting November 21, 2014

(1) Revised - Plan Sheets - S2 & S13

Proposal revisions are available at <http://transportation.ky.gov/Construction-Procurement/>.

Plan revisions are available at <http://www.lynnimaging.com/kytransportation/>.

If you have any questions, please contact us at 502-564-3500.

Sincerely,

A handwritten signature in blue ink that reads "Diana Castle Radcliffe".

Diana Castle Radcliffe  
Director  
Division of Construction Procurement

DR:ks  
Enclosures



An Equal Opportunity Employer M/F/D

# GENERAL NOTES

**SPECIFICATIONS**

ALL REFERENCES TO THE STANDARD SPECIFICATIONS ARE TO THE 2012 EDITION OF THE KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, INCLUDING CURRENT SUPPLEMENTALS.

ALL REFERENCES TO THE AASHTO SPECIFICATIONS ARE TO THE 7th EDITION (2014) OF THE AASHTO LRFD SPECIFICATIONS FOR HIGHWAY BRIDGES, WITH CURRENT INTERIMS.

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THIS BRIDGE IS DESIGNED FOR KYHL-93, WHICH IS 1.25 TIMES THE HL-93 LIVE LOAD. FUTURE WEARING SURFACE = 15 PSF.

THIS BRIDGE IS DESIGNED FOR A WIND LOAD BASED ON A WIND VELOCITY OF 100 MPH.

**DESIGN METHOD**

ALL REINFORCED CONCRETE MEMBERS ARE DESIGNED BY THE LOAD AND RESISTANCE FACTOR DESIGN (LRFD) METHOD AS SPECIFIED IN THE CURRENT AASHTO SPECIFICATIONS.

**MATERIALS DESIGN SPECIFICATIONS**

FOR CLASS "A" REINFORCED CONCRETE:	F'C = 3500 PSI
FOR CLASS "AA" REINFORCED CONCRETE:	F'C = 4000 PSI
FOR STEEL REINFORCEMENT:	Fy = 60000 PSI
FOR PILING:	Fy = 50000 PSI

**CONCRETE**

CLASS "AA" CONCRETE IS TO BE USED THROUGHOUT THE SLAB, BARRIERS, WINGWALLS, AND DIAPHRAGMS. ALL OTHER CONCRETE SHALL BE CLASS "A".

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ASTM OR AASHTO SPECIFICATIONS AS DESIGNATED BELOW SHALL GOVERN THE FOLLOWING MATERIALS FURNISHED:

STRUCTURAL STEEL	ASTM A572 GRADE 50W
SHEET LEAD AND PIG LEAD	ASTM B29-79
STEEL REINFORCEMENT	ASTM A615 GRADE 60
BOLTS	ASTM A325

**REINFORCEMENT**

DIMENSIONS SHOWN FROM THE FACE OF CONCRETE TO BARS ARE CLEAR DISTANCES UNLESS OTHERWISE SHOWN. SPACING OF BARS IS FROM CENTER TO CENTER OF BARS.

ANY REINFORCING BARS DESIGNATED BY THE SUFFIX "s" IN A "BILL OF REINFORCEMENT" SHALL BE CONSIDERED A STIRRUP FOR PURPOSES OF BAR BEND DIAMETERS.

ALL REINFORCING BARS DESIGNATED BY SUFFIX "E" IN THE PLANS SHALL BE EPOXY COATED IN ACCORDANCE WITH SECTION 811.10 OF THE STANDARD SPECIFICATIONS.

**BEVELED EDGES**

ALL EXPOSED EDGES SHALL BE BEVELED 3/4" UNLESS OTHERWISE SHOWN.

**COMPLETION OF THE STRUCTURE**

THE CONTRACTOR IS REQUIRED TO COMPLETE THE STRUCTURE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. MATERIAL, LABOR OR CONSTRUCTION OPERATIONS, NOT OTHERWISE SPECIFIED, ARE TO BE INCLUDED IN THE BID ITEM MOST APPROPRIATE TO THE WORK INVOLVED. THIS MAY INCLUDE COFFERDAMS, SHORING, EXCAVATIONS, BACKFILLING, REMOVAL OF ALL OR PARTS OF EXISTING STRUCTURES, PHASE CONSTRUCTION, INCIDENTAL MATERIALS, LABOR, OR ANYTHING ELSE REQUIRED TO COMPLETE THE STRUCTURE

**DIMENSIONS**

DIMENSIONS ARE FEET AND INCHES UNLESS OTHERWISE SHOWN. DIMENSIONS ARE FOR A NORMAL TEMPERATURE OF 60 DEGREES FAHRENHEIT. LAYOUT DIMENSIONS ARE HORIZONTAL MEASUREMENTS. STATIONING IS SHOWN IN FEET AND ELEVATIONS ARE IN FEET.

**TEMPORARY SUPPORTS**

TEMPORARY SUPPORTS OR SHORING WILL NOT BE PERMITTED UNDER THE GIRDERS WHEN POURING THE CONCRETE FLOOR SLAB OR WHEN TAKING "TOP OF GIRDER" ELEVATIONS.

**ARCHITECTURAL TREATMENT**

AN ARCHITECTURAL TREATMENT (FORM LINER) SHALL BE APPLIED TO THE COLUMNS OF THE PIERS AS SHOWN ON THE PIER DETAIL SHEETS. THE FORM LINER IS TO BE ASHLAR STONE PATTERN NO. 330 MANUFACTURED BY GREENSTREAK, 3400 TREE COURT INDUSTRIAL BOULEVARD, ST. LOUIS, MISSOURI 63122. ARCHITECTURAL TREATMENT WILL BE PAID PER SQUARE FOOT OF FORM LINER.

**PILING**

PILES SHALL BE GRADE 50 STEEL  
PILES SHALL BE DRIVEN TO REFUSAL.

TEST PILES SHALL BE DRIVEN WHERE DESIGNATED ON THE PLANS TO DETERMINE THE LENGTH OF PILE REQUIRED.

ALL TEST PILES SHALL BE ACCURATELY LOCATED SO THAT THEY MAY BE USED IN THE FINISHED STRUCTURE.

TEMPORARY SHORING, SHEETING, COFFERDAMS, AND/OR DEWATERING METHODS MAY BE REQUIRED TO FACILITATE FOUNDATION CONSTRUCTION.

**INCIDENTAL ITEMS**

THE CONTRACTOR IS REQUIRED TO COMPLETE THE STRUCTURE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. MATERIAL OR LABOR NOT OTHERWISE SPECIFIED ARE TO BE CONSIDERED INCIDENTAL TO THE CONTRACT.

**ANCHOR BOLT HOLES**

HOLES OF DEPTH AND DIMENSIONS SHOWN SHALL BE DRILLED FOR ANCHOR BOLTS OR DOWELS, AFTER BASE PLATES ARE PROPERLY SET, BY THE SUPERSTRUCTURE CONTRACTOR WHO SHALL BE RESPONSIBLE FOR KEEPING HOLES DRY IN FREEZING WEATHER. AFTER BASE PLATES ARE PROPERLY SET, ANCHOR BOLT HOLES DRILLED, AND ANCHOR BOLTS HEATED TO A BLUE HEAT ARE PLACED IN DRILLED HOLES, MOLTEN LEAD SHALL BE POURED IN HOLES AND PACKED UNTIL HOLES ARE COMPLETELY FILLED FLUSH TO TOP OF BASE PLATES. THE COST OF DRILLING ANCHOR BOLT HOLES, HEATING ANCHOR BOLTS, FURNISHING LEAD AND FILLING HOLES WITH MOLTEN LEAD SHALL BE INCIDENTAL TO AND INCLUDED IN THE LUMP SUM BID FOR STRUCTURAL STEEL.

**SLOPE PROTECTION**

SLOPE PROTECTION SHALL BE CRUSHED AGGREGATE SLOPE PROTECTION IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. FILTER FABRIC IS INCIDENTAL TO CRUSHED ROCK SLOPE PROTECTION.

**CLEANING AND PAINTING**

SECTION 607.03.23 OF THE SPECIFICATIONS APPLIES TO HIS PROJECT AND CONTRACTORS ARE HEREBY REMINDED THAT IN ACCORDANCE WITH THAT SECTION ALL STEEL SURFACES TO BE PAINTED, INCLUDING EXPOSED SURFACES OF SPLICE PLATES, NUTS, BOLTS AND WASHERS, SHALL BE BLAST CLEANED TO A NEAR-WHITE CONDITION IN ACCORDANCE WITH SSPC-SP10 IMMEDIATELY PRIOR TO BEING PAINTED WITH THE FIRST COAT OF PAINT, REGARDLESS OF WHETHER THE FIRST COAT IS APPLIED IN THE SHOP OR IN THE FIELD.

**SHEAR CONNECTORS**

THE "LUMP SUM BID" FOR SHEAR CONNECTORS SHALL BE FULL PAYMENT FOR ALL SHEAR CONNECTORS, WELDING AND WELDING MATERIAL, AND MATERIALS NECESSARY TO FIELD WELD THE SHEAR CONNECTORS IN PLACE ACCORDING TO THE PLANS AND SPECIFICATIONS.

**POURING SEQUENCE**

THE POURING SEQUENCE OF THE SLAB MAY NOT BE CHANGED WITHOUT WRITTEN APPROVAL OF THE DESIGNER.

**SHOP DRAWINGS**

SUBMIT SHOP DRAWINGS THAT ARE REQUIRED BY THE PLANS AND SPECIFICATIONS DIRECTLY TO THE CONSULTANT BY E-MAIL IN PDF FORM. IF CHANGES IN THE DESIGN PLANS ARE PROPOSED BY A FABRICATOR OR SUPPLIER, SUBMIT THOSE CHANGES TO THE CONSULTANT.

**MASONRY COATING**

APPLY MASONRY COATING FINISH TO VARIOUS PARTS OF THE STRUCTURE IN ACCORDANCE WITH SUBSECTION 601.03.18 OF THE STANDARD SPECIFICATIONS.

**PILE POINTS**

PILE POINTS ARE REQUIRED. THE POINTS SHALL BE THE TYPE FOR KEYING INTO A SLOPING ROCK SURFACE. PILE POINTS SHALL BE IN ACCORDANCE WITH SUBSECTION 604.03.04 (c) OF THE STANDARD SPECIFICATIONS.

**STAY-IN-PLACE METAL FORMS**

THE USE OF STAY-IN-PLACE METAL FORMWORK FOR THE BRIDGE DECK IS PERMITTED PROVIDED THE CORRUGATIONS ARE FILLED WITH STYROFOAM.

**BLAST CLEANING AND PAINTING SUPERSTRUCTURE STEEL**

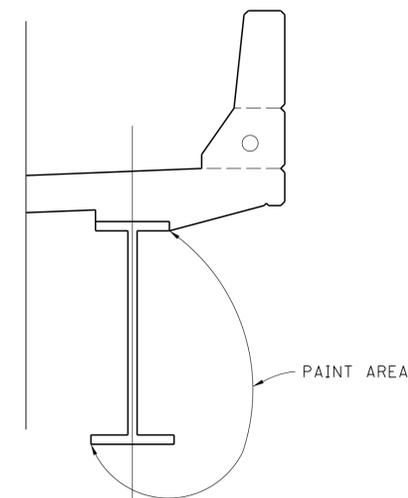
UPON COMPLETION OF ALL FABRICATION OPERATIONS IN THE SHOP, AND PRIOR TO SHIPMENT TO THE PROJECT SITE, ALL WEATHERING STEEL BRIDGE COMPONENTS SHALL BE BLAST CLEANED TO A NEAR WHITE SURFACE CONDITION IN ACCORDANCE WITH SSPC-SP-10. PRIOR TO THE START OF ANY BLAST CLEANING, ALL OIL, GREASE, CUTTING FLUIDS OR OTHER FOREIGN MATTER SHALL BE REMOVED FROM THE SURFACES OF THE STEEL BY SOLVENT CLEANING IN ACCORDANCE WITH SSPC-SP 1.

THE ENDS OF THE GIRDERS AND OTHER STRUCTURAL COMPONENTS THAT WILL BE ENCASED IN THE INTEGRAL END BENT CONCRETE, PLUS AN ADDITIONAL MINIMUM ONE FOOT IN LENGTH, AND A 5' SECTION OVER EACH PIER SHALL BE BLAST CLEANED AND SHOP PAINTED IN ACCORDANCE WITH SECTION 607.03.23 OF THE STANDARD SPECIFICATIONS. ADDITIONALLY THE EXTERIOR WEB AND BOTTOM FLANGE OF GIRDERS 1 & 4 SHALL BE SHOP PAINTED WITH PRIMER ONLY FOR THE ENTIRE LENGTH. APPLY THE FULL PAINT SYSTEM IN THE FABRICATION SHOP TO THE END BENT AND PIER AREA DEFINED ABOVE, EXCEPT FAYING SURFACES OF HIGH STRENGTH BOLTED CONNECTIONS, WHICH SHALL BE SHOP PAINTED WITH A PRIMER ONLY. THE COLOR OF THE FINAL TOP COAT SHALL BE 34066 IN ACCORDANCE WITH FEDERAL COLOR STANDARD 9958 AND THE GLOSS AT AN ANGLE OF 60 DEGREES SHALL NOT EXCEED 25.

ALL CLEANING AND PAINTING COSTS ARE TO BE INCLUDED IN THE COST OF STRUCTURAL STEEL.

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## EXTERIOR GIRDERS

REVISION		DATE
DATE: Oct., 2014	CHECKED BY	
DESIGNED BY: S. Weber	R. Wade	
DETAILED BY: F. Koch	S. Weber	
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>		
COUNTY <b>FAYETTE</b>		
ROUTE <b>Ramp G</b>	CROSSING <b>US 60 (Versailles Road)</b>	
<b>GENERAL NOTES</b>		
ITEM NUMBER	PREPARED BY <b>Qk4</b> <i>1046 E. Chestnut Street Louisville, Kentucky 40204</i>	SHEET NO. <b>S2</b> DRAWING NO. <b>27087</b>
<b>07-279.00</b>		

FILE NAME: I:\HIGHWAY\CADD STANDARDS\KY 2010\KYTC\_RESOURCE\CELL\KYTC\_SHEET.CEL

USER: JLOPEZ  
DATE PLOTTED: October 13, 2014

E-SHEET NAME:

MicroStation v8.11.7.443

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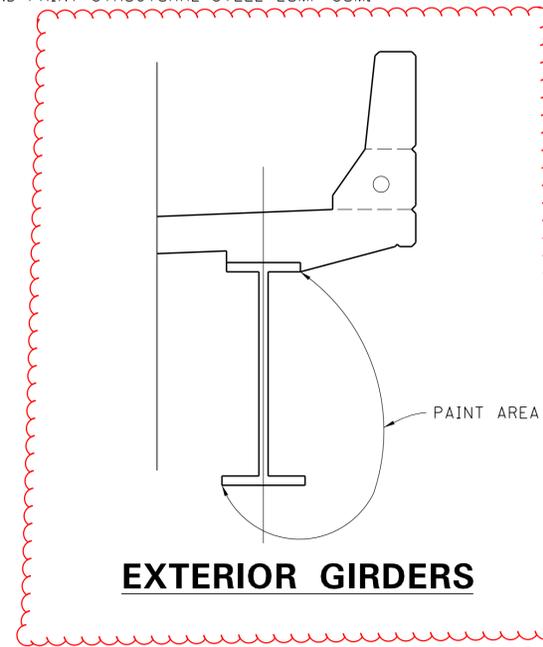
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**EXTERIOR GIRDERS**

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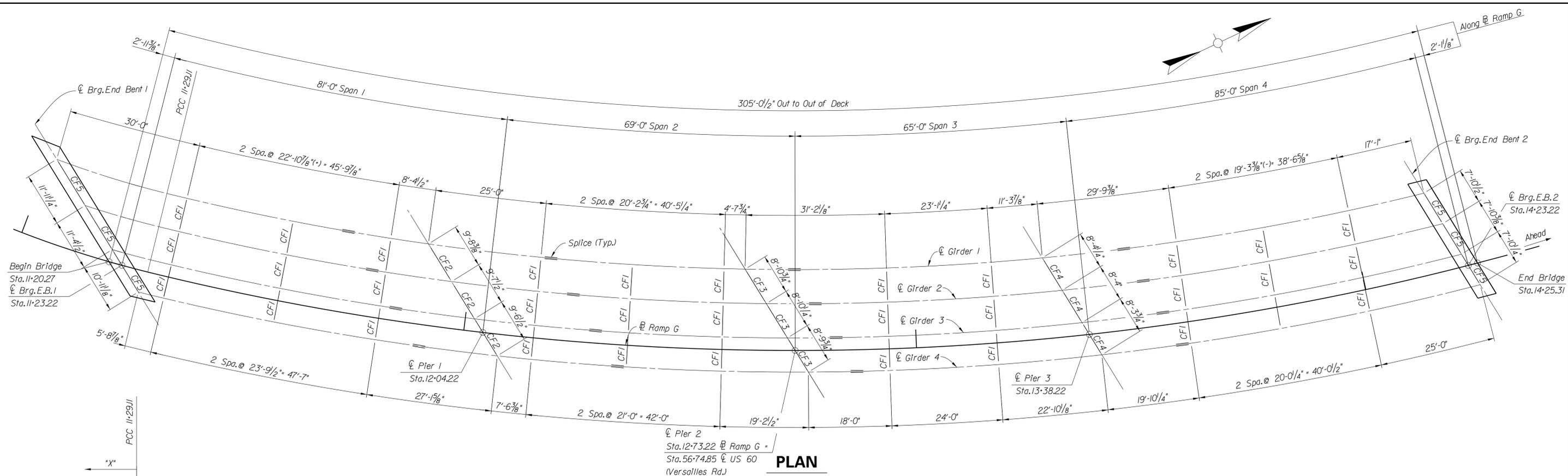
USER: JLOPEZ DATE PLOTTED: October 13, 2014

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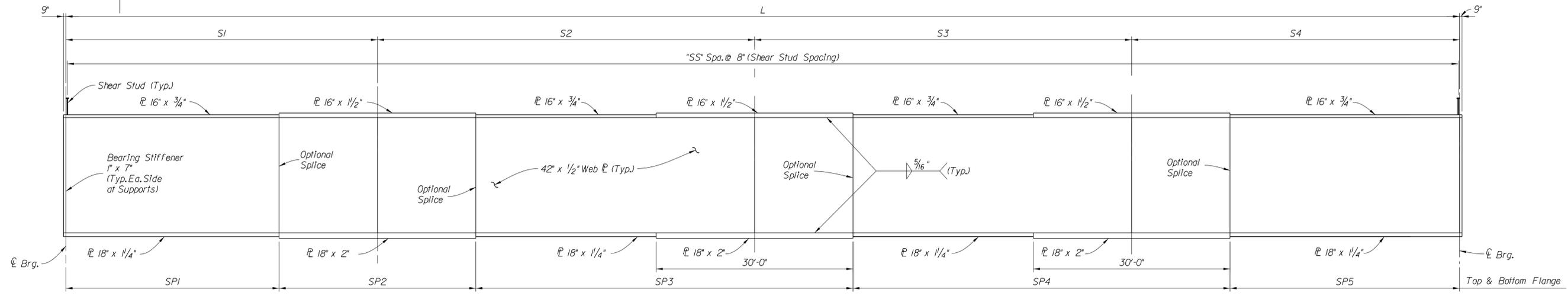
MicroStation v8.11.7.443

REVISION		DATE
DATE: Oct., 2014	CHECKED BY	
DESIGNED BY: S. Weber	R. Wade	
DETAILED BY: F. Koch	S. Weber	
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b>		
COUNTY <b>FAYETTE</b>		
ROUTE <b>Ramp G</b>	CROSSING <b>US 60 (Versailles Road)</b>	
<b>GENERAL NOTES</b>		
ITEM NUMBER	PREPARED BY <b>Qk4</b> 1046 E. Chestnut Street Louisville, Kentucky 40204	SHEET NO. <b>S2</b> DRAWING NO. <b>27087</b>
<b>07-279.00</b>		

FILE NAME: V:\1108 KY 4 AND US 60 INTERCHANGE BRIDGES RAMP G-STAGE II FINAL DRAWINGS S-13 FRAMING PLAN.DGN  
 USER: fkoach  
 DATE PLOTTED: November 10, 2014  
 E-SHEET NAME:  
 MicroStation v8.11.7.443



**PLAN**

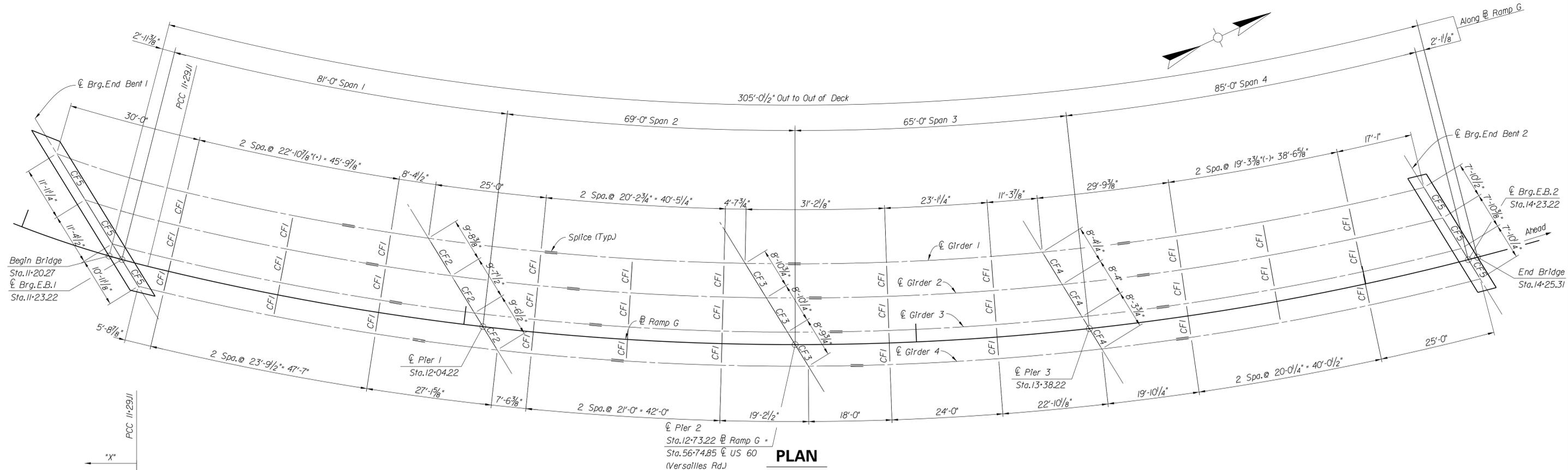


**GIRDER ELEVATION**

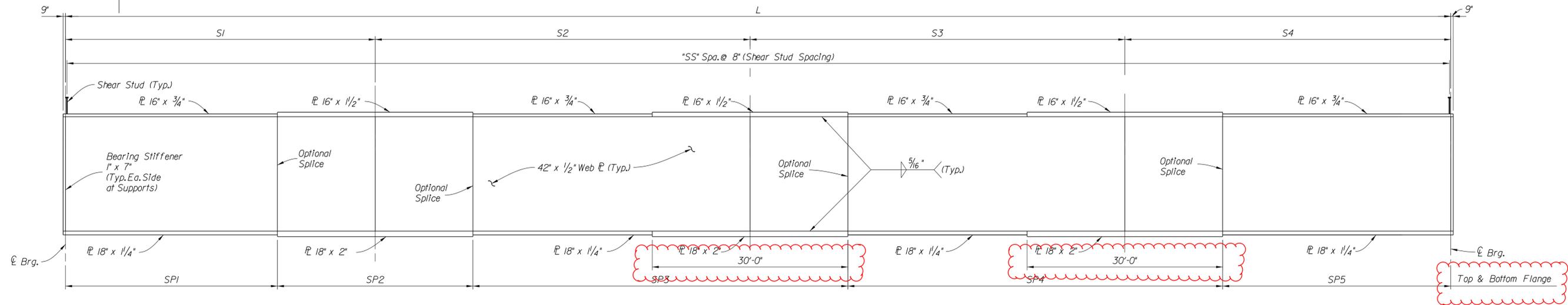
GIRDER TABLE														
GIRDER No.	L	S1	S2	S3	S4	SP1	SP2	SP3	SP4	SP5	RADIUS	"X"	"X"RAD.	"SS"
1	305'-3 1/2"	84'-2 1/4"	70'-1"	65'-7 1/4"	85'-5"	63'-0"	44'-0"	59'-3 1/2"	72'-0"	67'-0"	582'-3"	25'-5 3/8"	213'-3"	457
2	302'-9 1/2"	82'-7 1/8"	69'-7 3/8"	65'-4 1/8"	85'-2 1/8"	63'-0"	44'-0"	56'-9 1/2"	72'-0"	67'-0"	589'-9"	16'-10 1/8"	220'-9"	454
3	300'-8 1/4"	81'-4 1/2"	69'-2"	65'-1"	85'-0 1/4"	63'-0"	44'-0"	54'-8 1/4"	72'-0"	67'-0"	597'-3"	3'-10 5/8"	228'-3"	451
4	298'-11"	80'-5 1/4"	68'-8 7/8"	64'-10 1/8"	84'-10 1/4"	63'-0"	44'-0"	52'-11"	72'-0"	67'-0"	604'-9"	0'-11 7/8"	235'-9"	448

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**PLAN**



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GIRDER TABLE														
GIRDER No.	L	S1	S2	S3	S4	SP1	SP2	SP3	SP4	SP5	RADIUS	"X"	"X"RAD.	"SS"
1	305'-3 1/2"	84'-2 1/4"	70'-1"	65'-7 1/4"	85'-5"	63'-0"	44'-0"	59'-3 1/2"	72'-0"	67'-0"	582'-3"	25'-5 3/8"	213'-3"	457
2	302'-9 1/2"	82'-7 1/8"	69'-7 3/8"	65'-4 1/8"	85'-2 1/8"	63'-0"	44'-0"	56'-9 1/2"	72'-0"	67'-0"	589'-9"	16'-10 1/8"	220'-9"	454
3	300'-8 1/4"	81'-4 1/2"	69'-2"	65'-1"	85'-0 1/4"	63'-0"	44'-0"	54'-8 1/4"	72'-0"	67'-0"	597'-3"	3'-10 3/8"	228'-3"	451
4	298'-11"	80'-5 1/4"	68'-8 1/8"	64'-10 1/8"	84'-10 1/4"	63'-0"	44'-0"	52'-11"	72'-0"	67'-0"	604'-9"	0'-11 1/8"	235'-9"	448

REVISION		DATE
DATE: Oct., 2014	CHECKED BY	
DESIGNED BY: S. Weber	R. Wade	
DETAILED BY: J. Lopez	S. Weber	
<b>Commonwealth of Kentucky</b>		
<b>DEPARTMENT OF HIGHWAYS</b>		
COUNTY		
<b>FAYETTE</b>		
ROUTE	CROSSING	
<b>Ramp G</b>	<b>US 60 (Versailles Road)</b>	
<b>FRAMING PLAN</b>		
ITEM NUMBER	PREPARED BY	SHEET NO.
<b>07-279.00</b>	<b>Qk4</b>	<b>S13</b>
	1046 E. Chestnut Street Louisville, Kentucky 40204	DRAWING NO. <b>27087</b>