PROJECT	DESIGNATION
0300798	0300798
CONTRACT	FILE
–	

STRUCTURE	TYPE	SPANS	SKEW	OVER	℄ STATION
US 31 OVER COURT AVENUE	COMPOSITE BEAM BRIDGE	1 AT 107'-9"	6°11'46" LT.	COURT AVENUE	℄ STRUCTURE STA. 24+71.61 LINE "US31"

NOTE:
THE INFORMATION CONTAINED IN THESE PLANS IS NOT COMPLETE FOR CONSTRUCTION OF THE PROJECT. THESE PLANS ARE DEVELOPED ONLY FOR COMPLIANCE WITH INDOT LEVEL ONE DESIGN CRITERIA. THESE PLANS ARE INTENDED FOR THE LIMITED PURPOSE OF PROVIDING INFORMATION TO SUPPORT THE SUPPLEMENTAL ENVIRONMENTAL IMPACT STATEMENT AND INTERCHANGE JUSTIFICATION DOCUMENTS.

INDIANA DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS

FOR SPANS OVER 20 FEET

US 31 OVER COURT AVENUE

TRAFFIC DATA		US31
A.A.D.T.	(2010)	– V.P.D.
A.A.D.T.	(2030)	18,400 V.P.D.
D.H.V.	(2030)	1,840 V.P.H.
DIRECTIONAL DISTRIBUTION		50 %
TRUCKS		2 % D.H.V.
TRUCKS		2 % A.A.D.T.

DESIGN DATA	
DESIGN SPEED	40 M.P.H.
FUNCTIONAL CLASSIFICATION	PRINCIPAL ARTERIAL
TERRAIN	LEVEL
RURAL/URBAN	URBAN
ACCESS CONTROL	NONE
PROJECT DESIGN CRITERIA	RECONSTRUCTION (NON FREEWAY)

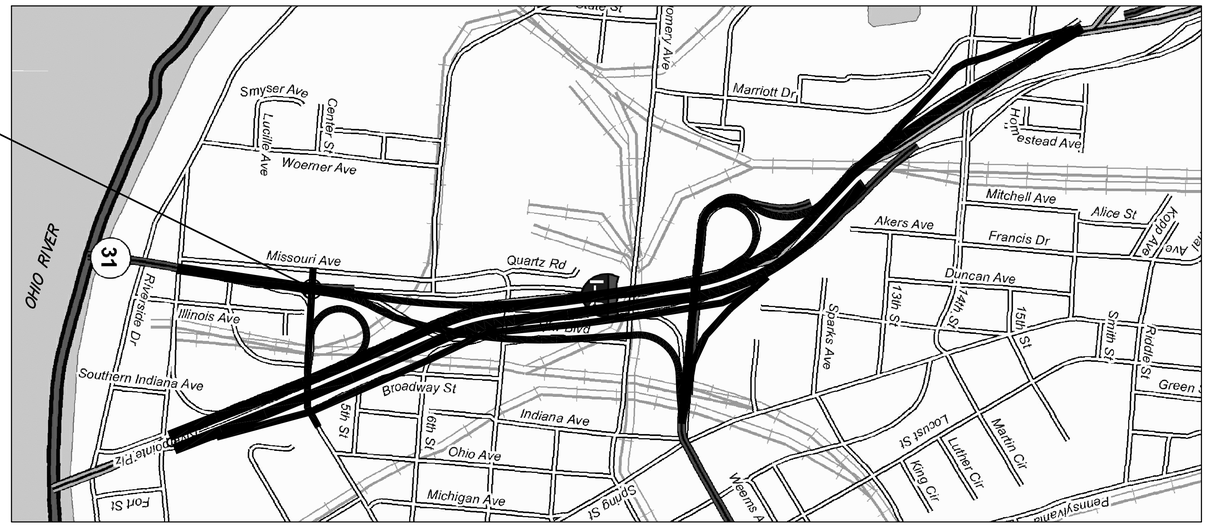
LOUISVILLE SOUTHERN INDIANA
OHIO RIVER BRIDGES PROJECT (LSIORBP)
SECTION 3
PROJECT NO. 0300798

BRIDGE CONSTRUCTION OF US31 OVER COURT AVENUE IN ILLINOIS GRANT #1, JEFFERSONVILLE TOWNSHIP, CLARK COUNTY, INDIANA. APPROXIMATELY 500' WEST OF THE INTERSECTION OF COURT AVENUE AND BROADWAY STREET.

PROJECT LOCATION SHOWN BY

Approx. 38°16'20" N. Lat. & 85°44'59" W. Long.

PROJECT LOCATION
US31 OVER COURT AVENUE
COMPOSITE SUPERSTRUCTURE BRIDGE
ONE SPAN @ 107'-9", SKEW 6°11'46" LT.,
36'-0" CLEAR ROADWAY WIDTH
BEGIN PROJECT STA. 23+94.28 "US31"
END PROJECT STA. 25+48.95 "US31"



VICINITY MAP
LOCATED IN CLARK COUNTY

SCALE: NONE

BRIDGE LENGTH:	0.021 Miles
ROADWAY LENGTH:	0.008 Miles
TOTAL LENGTH:	0.029 Miles
MAXIMUM GRADE:	+2.39 %

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2012
TO BE USED WITH THESE PLANS

FEDERAL HIGHWAY ADMINISTRATION
U.S. DEPT. OF TRANSPORTATION
APPROVED: _____ DATE

_____ DIVISION ADMINISTRATOR

USI consultants
8415 East 56th Street
Indianapolis, Indiana 46216

PLANS PREPARED BY: USI CONSULTANTS, INC. (317)544-4996 PHONE
CERTIFIED BY: _____ DATE
APPROVED FOR LETTING: _____ INDIANA DEPARTMENT OF TRANSPORTATION DATE

CONTRACT	FILE
–	–
	DESIGNATION
	0300798
	SHEET
	1 OF 5
	PROJECT
	0300798

USI NO. 2011-087

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UTILITIES

Amoco Pipeline Co.
Contact: W.A. Moore
28100 Torch Parkway, Suite 800
Warrenville, IL 60555
PH: 630-836-5189

AT&T
Contact: Chuck McKean
6612 E. 75th St., 5th Floor
Indianapolis, IN 46250

Buckeye Pipeline Company
Contact: William Serra
P.O. Box 368
Emmaus, PA 18049
Ph: 484-232-4215

Clark County REMC
Contact: David Vince
P.O. Box L
Sellersburg, IN 47172
Ph: 812-246-3316

Fiber Tech Network
Contact: Lisa Jarosinski
140 Allens Creek
Rochester, NY 14618

Indiana-American Water
Contact: Ted Nitza
555 E. County Line Road
Greenwood, IN 46143
Ph: 317-885-2418

Level 3 Communications, LLC
1902 S. East St.
Indianapolis, IN 46225

Marathon Ashland Pipe Line LLC
Old Route 40
Martinsville, IL 62442
Ph: 217-382-4911

McLeod USA
Contact: Tony Light
7998 Centerpoint Drive, Suite 300
Indianapolis, IN 46256

Qwest Fiber
Contact: George McElvan
1860 Lincoln Street, Suite 200
Denver CO 80295

Texas Eastern Products Pipe Line Company
Contact: Wayne Thigpen
651 S. Commerce Blvd., Suite A
Seymour, IN 47274

Williams Communications
Contact: Judy Lake
1 Technology Center (TC-11A)
P.O. Box 22064
Tulsa, OK 74121-2064
Ph: 317-532-9782

AT&T
ROW Department
220 N. Meridian, Rm 225
Indianapolis, IN 46204

B.P. Pipeline
Contact: Todd McKee
2500 N. Tibbs Ave.
Indianapolis, IN 46222
Ph: 317-920-9334

Cinergy
Contact: Kevin Johnston
1619 West Deffenbaugh
Kokomo, IN 46902
Ph: 765-454-6182

Clarksville Wastewater Treatment
Contact: Thomas Clevidence
2000 Broadway
Clarksville, IN 47129
Ph: 812-283-1510

Indiana Fiber Works
Contact Jim Andrews
Contact: Tom Spencer
141 E. Washington Street
Indianapolis, IN 46204
Ph: 317-710-4814

Insight Communications
Contact: Scott Templeton
2450 S. Henderson St.
Bloomington, IN 47401
Ph: 502-357-4400

Light Core
Contact: Justin French
14567 N. Outer Forty Rd., Suite 500
Chesterfield, MO 63017

MCI Worldcom
Contact: Judy Ognibene
2250 Lakeside Blvd.
Richardson, TX 75082
Ph: 972-656-1704

Panhandle Eastern Pipeline Co.
Contact: Sharon Prater
P.O. Box 38
Zionsville, IN 46077
Ph: 317-873-3329

SBC
Contact: Monte C. Gullion
510 E. Spring Street
New Albany, IN 47150
Ph: 812-948-7179

Vectren Energy
Contact: Marty Frederick
1 N. Main Street
Evansville, IN 47702
Ph: 812-491-4765

Williams Pipeline
P.O.Box 3448
Tulsa, OK 74101

REVISIONS

SHEET NO.	DATE	REVISED

GENERAL NOTES

	All earth shoulders, median areas, and cut and fill slopes shall be plain or mulch seeded except where sodding is specified.
	The final cross sections of the grading contract will be the original cross sections of the paving contract. However, partial or complete cross sections shall be taken if necessary to determine the actual excavation quantities.
	The paper relocation will be cross sectioned by the Engineer before construction.
	Existing asphalt pavement located outside the construction limits, between Sta. 00+00 and Sta. 00+00 shall be removed as directed.
	The quantity of Peat "Excavation" as shown on the plans has been estimated on the basis of theoretical cross-sections by using treatment of existing fills, treatment by removal, or treatment by displacement where each treatment applies.

** REPRESENTS GENERAL NOTES REQUIRED

INDEX

SHEET NO.	DESIGNATION
1	TITLE SHEET
2	INDEX SHEET
3	BRIDGE LAYOUT
4-5	GENERAL PLAN

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: MJH DRAWN: DWB

CHECKED: PRA CHECKED: MJH

INDIANA DEPARTMENT OF TRANSPORTATION

INDEX SHEET
US31 OVER COURT AVENUE

HORIZONTAL SCALE	FILE
NONE	
VERTICAL SCALE	DESIGNATION
NONE	0300798
SURVEY BOOK	SHEET
	2 OF 5
CONTRACT	PROJECT
	0300798

USI NO. 2011-087

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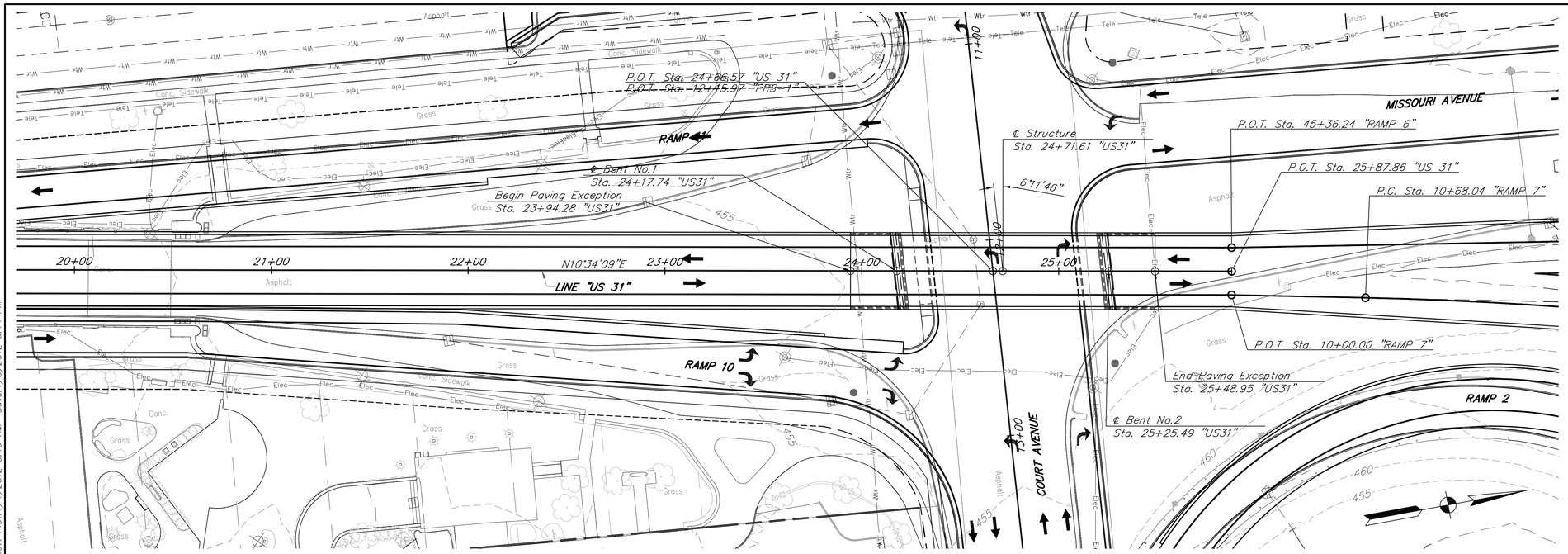


SITUATION PLAN

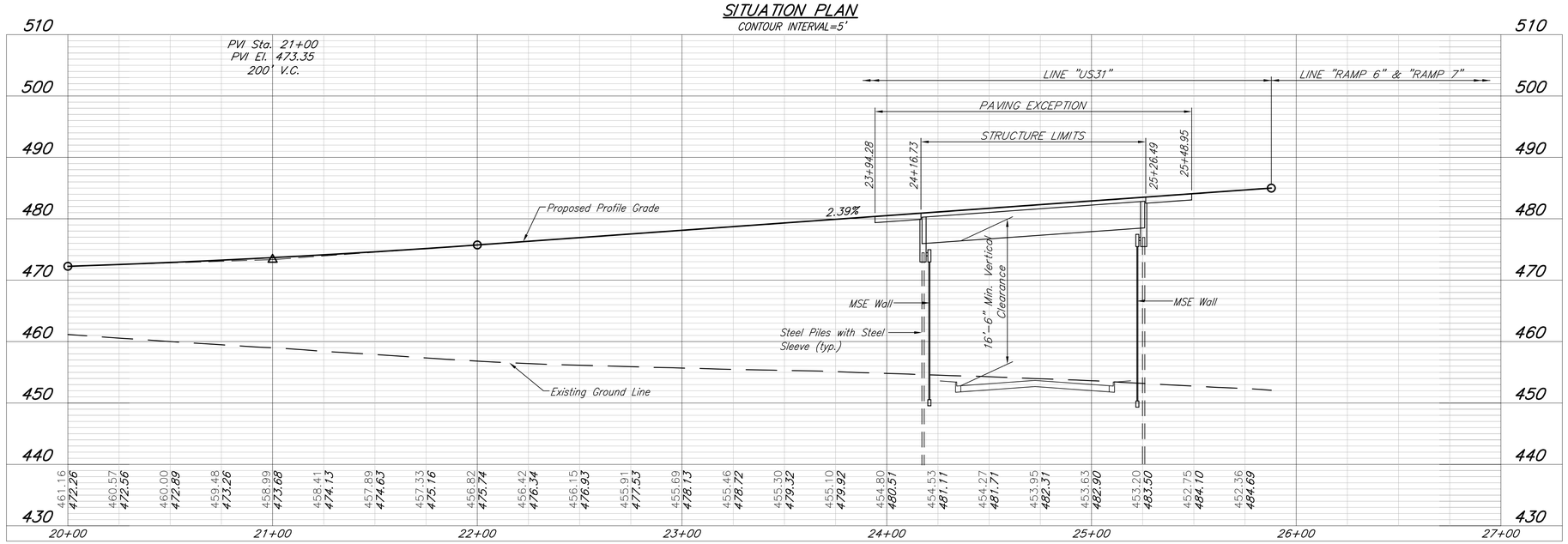
CONTOUR INTERVAL=5'

EXISTING STRUCTURE

No Existing Present

UTILITIES

See Index Sheet



COMPOSITE SUPERSTRUCTURE BRIDGE

ONE SPAN @ 107'-9", SKEW 6°11'46" LT.,
36'-0" CLEAR ROADWAY WIDTH
US 31 OVER COURT AVENUE

RECOMMENDED FOR APPROVAL: DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1"=30'	FILE
		VERTICAL SCALE 1"=10'	DESIGNATION 0300798
DESIGNED: MJH DRAWN: DWB	BRIDGE LAYOUT US31 OVER COURT AVENUE	SURVEY BOOK	SHEET 3 OF 5
CHECKED: PRA CHECKED: MJH		CONTRACT	PROJECT 0300798

USI NO. 2011-087

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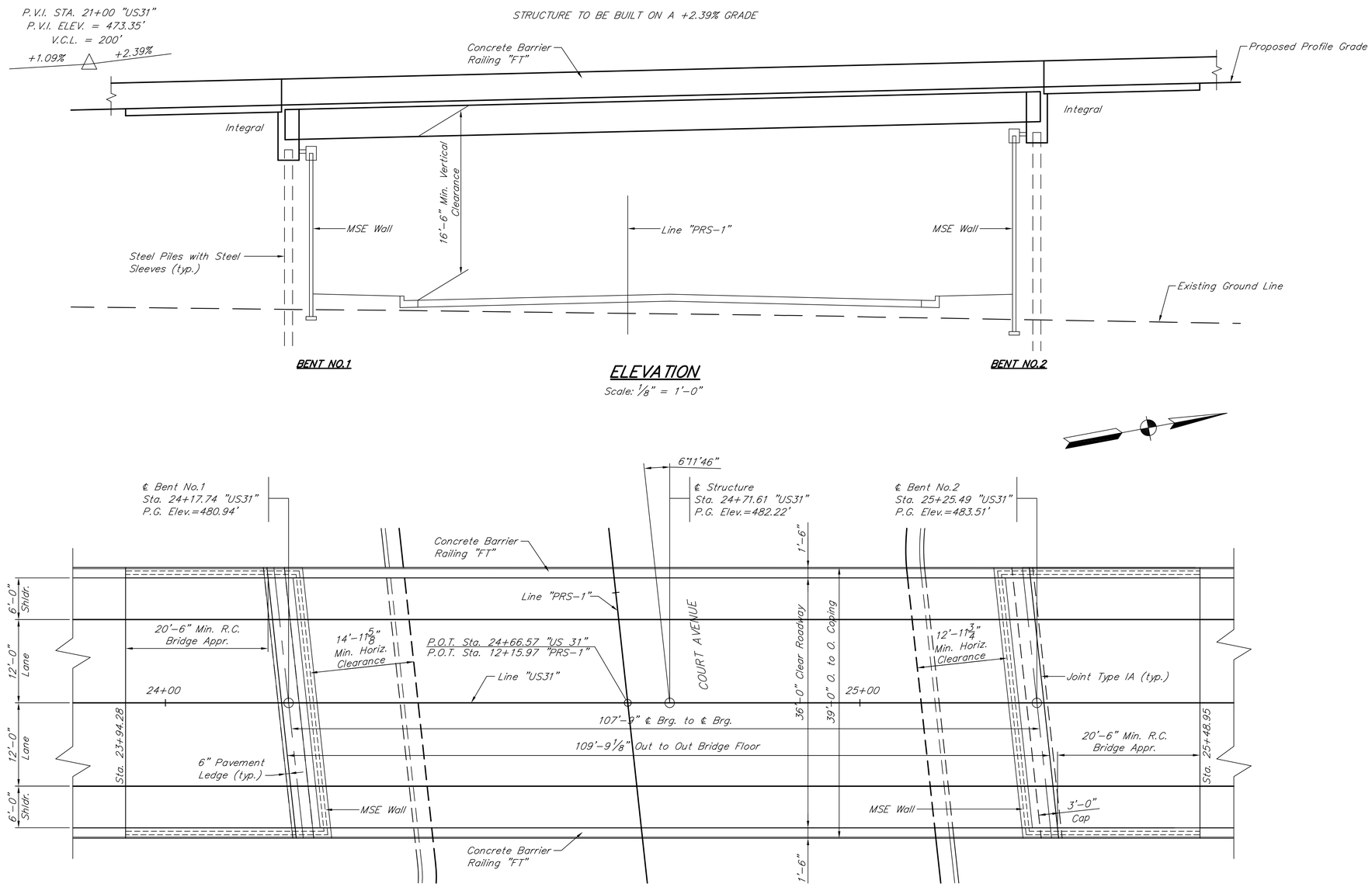

ELEVATION

Scale: 1/8" = 1'-0"

PLAN

Scale: 1/8" = 1'-0"

COMPOSITE SUPERSTRUCTURE BRIDGE
ONE SPAN @ 107'-9", SKEW 6°11'46" LT.,
36'-0" CLEAR ROADWAY WIDTH
US 31 OVER COURT AVENUE

RECOMMENDED FOR APPROVAL: DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1/8"=1'-0"	FILE
		VERTICAL SCALE 1/8"=1'-0"	DESIGNATION 0300798
DESIGNED: MJH DRAWN: DWB	GENERAL PLAN US31 OVER COURT AVENUE	SURVEY BOOK	SHEET 4 OF 5
CHECKED: PRA CHECKED: MJH		CONTRACT	PROJECT 0300798

USI NO. 2011-087

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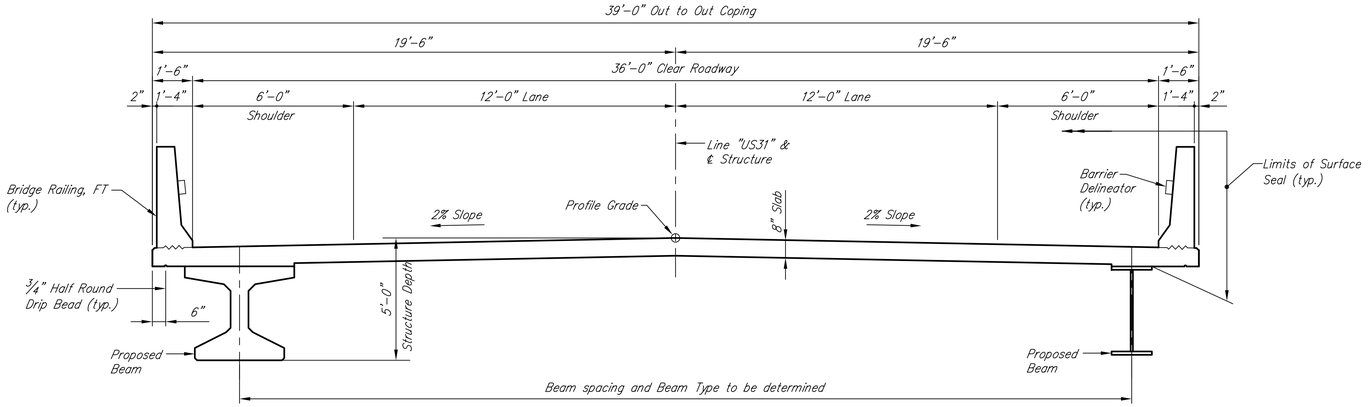

TYPICAL BRIDGE SECTION

Scale: 3/8"=1'-0"

GENERAL NOTES:

All dimensions are in feet and inches and all elevations are in feet unless otherwise noted.

Reinforcing steel covering to be 2.5" in top and 1" min. in bottom of floor slabs, 3" in footings except bottom steel to be 4", and 2" in all other parts, unless noted.

Concrete in end bents, floor slab, wingwalls and concrete barrier railings is to be Class "C".

Concrete shall be Class "A" unless noted above.

Surface Seal exposed surfaces of wingwalls, face of deck coping, underside of bridge floor from coping to flange of outside beams, bridge deck and all faces of concrete barrier railing.

DESIGN DATA

Superstructure and Substructure designed for HL-93 loading, in accordance with 2010 AASHTO LRFD Specifications, 5th Edition, and subsequent Interim Specifications.

Designed for actual dead load plus 35#/sft. future wearing surface, and 15#/sft. additional to permit use of Permanent Metal Deck Forms.

Slab designed with 1/2" wearing surface.

UNIT STRESSES:
Class "C" Concrete F'c = 4000 p.s.i.
Class "A" Concrete F'c = 3500 p.s.i.
Reinforcing Steel (Grade 60) Fy = 60,000 p.s.i.

CONSTRUCTION LOADING

The exterior girder has been checked for strength, deflection and overturning using the construction loads shown below. Cantilever overhang brackets were assumed for support of the deck overhang past the edge of the exterior girder. The finishing machine was assumed to be supported 6 inches outside the vertical coping form. The top overhang brackets were assumed to be located 6 inches past the edge of the vertical coping form. The bottom overhang brackets were assumed to be braced against the intersection of the girder bottom flange and web.

Deck Falsework Loads: Designed for 15#/sft. for permanent metal stay-in-plac deck forms, removable deck forms and 2 ft. exterior walkway.

Construction Live Loads: Designed for 20#/sft. extending 2 ft. past the edge of coping and 75#/lft. vertical force at a distance of 6 inches outside the face of coping over a 30 ft. length of the deck centered with the finishing machine.

Finishing Machine Load: 4500 lb. distributed over 10 ft. along the coping

Wind Load: Designed for 70 MPH horizontal wind loading of 50#/sft. in accordance with AASHTO "Guide Design Specifications for bridge Temporary Works" (1995), Fig. 2.1.

SEISMIC DESIGN DATA

Seismic Zone: "TBD"
Acceleration Coefficient: "TBD"
Soil Class: "TBD"

COMPOSITE SUPERSTRUCTURE BRIDGE
ONE SPAN @ 107'-9", SKEW 6°11'46" LT.,
36'-0" CLEAR ROADWAY WIDTH
US 31 OVER COURT AVENUE

RECOMMENDED FOR APPROVAL: DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 3/8"=1'-0"	FILE
		VERTICAL SCALE 3/8"=1'-0"	DESIGNATION 0300798
DESIGNED: MJH DRAWN: DWB	GENERAL PLAN US31 OVER COURT AVENUE	SURVEY BOOK	SHEET 5 OF 5
CHECKED: PRA CHECKED: MJH		CONTRACT	PROJECT 0300798

BFS NO. 2011-087

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