R-24315 part 3 of 3

PROJECT	DESIGNATION
STP-B008 ( )	9881531
CONTRACT	BRIDGE FILE
R-24315	1465-126-5237B

INDEX

STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
1465-126-5237B	CONTINUOUS COMPOSITE REINFORCED CONCRETE STEEL BEAM BRIDGE	2 SPANS: 28346, 28346 SKEW: 19°04'18" Rt.	I-465	

SHEET NO.	SUBJECT
1	TITLE SHEET
2-4	GENERAL PLAN
5-6	REMOVAL DETAILS
7	BENT NO. 1 DETAILS
8	BENT NO. 3 DETAILS
9	EXPANSION JOINT SEALING SYSTEM
10	DECK RECONSTRUCTION DETAILS
11	FLOOR DETAILS AND BILL OF MATERIALS
12	CONCRETE BRIDGE RAIL DETAILS
13-14	R.C. BRIDGE APPROACH DETAILS
15	BRIDGE SUMMARY OF QUANTITIES

INDIANA DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS

FOR SPANS OVER 6.1 METERS

TRAFFIC DATA	ALLISONVILLE ROAD	I-465 RAMPS (EB/WB)	
A.A.D.T. (1998)	38,133	14,840/10,756	V.P.D.
A.A.D.T. (2018 PROJECTED)	47,670	18,831/13,649	V.P.D.
D.H.V. (2018 PROJECTED)	4,290	1,695/1,229	V.P.H.
DIRECTIONAL DISTRIBUTION	60	100	%
TRUCKS	3	100	% D.H.V.
TRUCKS	6	6	% A.A.D.T
ESAL	7,650,000	5,950,000/4,100,000	
DESIGN DATA			
DESIGN SPEED	60	60	Km/H
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)	3R (FREEWAY)	
FUNCTIONAL CLASSIFICATION	URBAN ARTERIAL	INTERSTATE	
RURAL/URBAN	URBAN (BUILT-UP)	URBAN (BUILT-UP)	
ACCESS CONTROL	LIMITED	FULL	
TERRAIN	LEVEL	LEVEL	

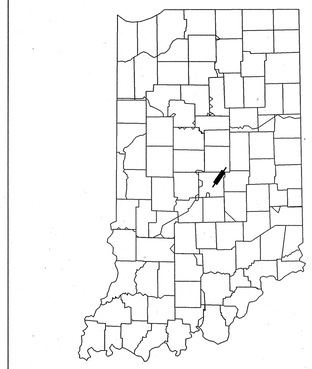
PROJECT NO. STP-B008 ( )P.E.
STP-B008 ( )CONST.

ROADWAY CAPACITY IMPROVEMENT ALONG ALLISONVILLE ROAD AT INTERSTATE 465.
LOCATED IN SECTION 21, T-17-N., R-4-E., WASHINGTON TOWNSHIP, MARION COUNTY INDIANA AT R.P. 35+33.

ALLISONVILLE ROAD
GROSS LENGTH = 534.143 METERS LINE "SR37-A"
NET LENGTH = 504.143 METERS LINE "SR-37-A"

EAST BOUND RAMPS
GROSS LENGTH = 249 METERS LINE "EB"
NET LENGTH = 229 METERS LINE "EB"

WEST BOUND RAMPS
GROSS LENGTH = 328 METERS LINE "WB"
NET LENGTH = 209 METERS LINE "WB"



PROJECT LOCATION SHOWN BY

BEGIN CONSTRUCTION
STA. 0+785.000 LINE "EB"

END CONSTRUCTION
STA. 1+014.000 LINE "EB"

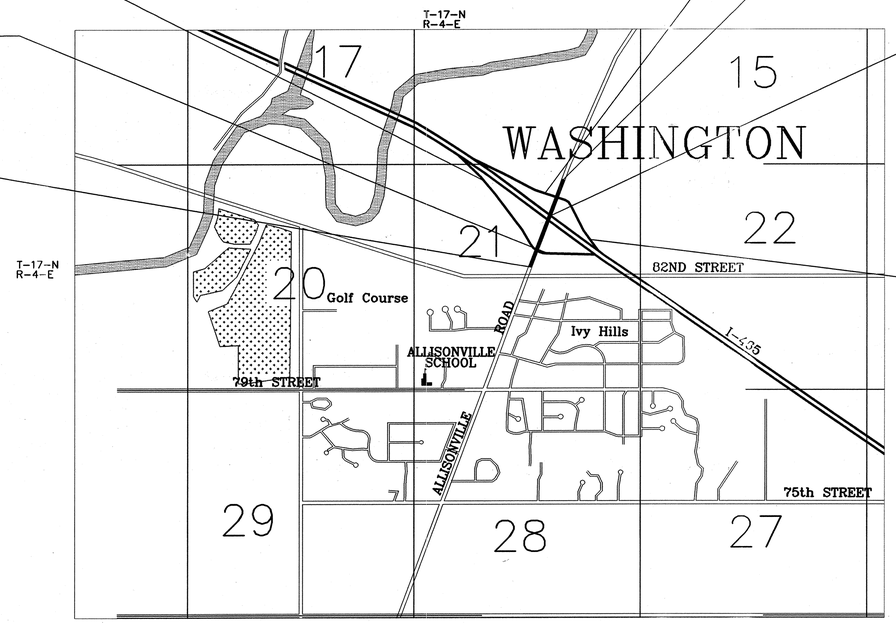
BEGIN PROJECT
STA. 10+002.265 LINE "SR-37A"

END CONSTRUCTION
STA. 0+644.000 LINE "WB"

END PROJECT
STA. 10+570.000 LINE "SR-37A"

STR. NO. 1465-126-5273B

BEGIN CONSTRUCTION
STA. 0+435.000 LINE "WB"



BRIDGE LENGTH :	56.692 m (NB)
BRIDGE LENGTH :	56.692 m (SB)
ROADWAY LENGTH :	KM.
TOTAL LENGTH :	m.
MAX. GRADE :	%

SCALE 1:20000

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 1999
TO BE USED WITH THESE PLANS

RECOMMENDED FOR PUBLIC BID: DATE: 11 MAR 99

PROJECT MANAGER: Robert J. Zielinski

PAUL I. CRIPE, INC.
7172 GRAHAM ROAD
INDIANAPOLIS, INDIANA 46250
(317) 842-6777 FAX (317) 841-4798

- ARCHITECTURE
- CIVIL ENGINEERS
- LANDSCAPE ARCHITECTURE
- LAND PLANNING
- LAND SURVEYORS
- ENVIRONMENTAL CONSULTANTS
- TRANSPORTATION ENGINEERS

REVISIONS	
DATE	SHEET NO.

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

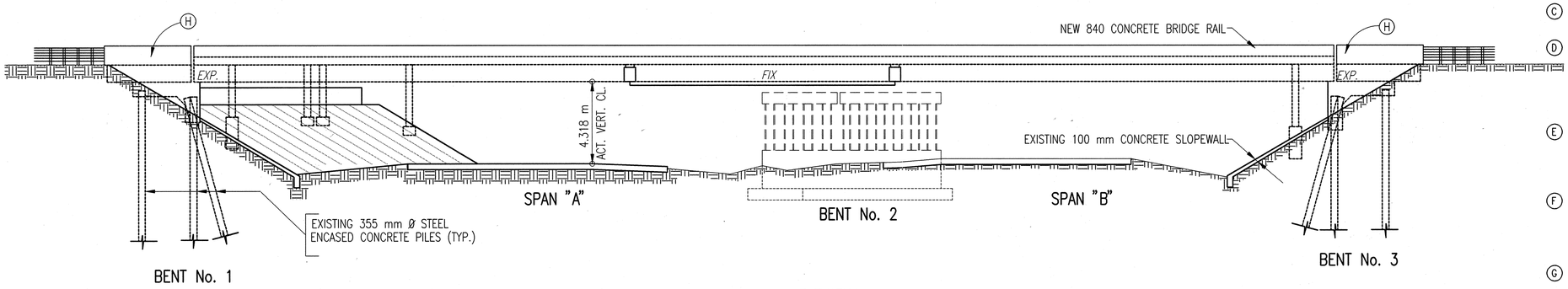
PLANS PREPARED BY: _____ PHONE NUMBER
CERTIFIED BY: Richard J. Zielinski 3/9/99 DATE
APPROVED FOR LETTING: Phillip H. Kilgore 5/12/99 DATE
CHIEF, DIVISION OF DESIGN

RICHARD J. ZIELINSKI REGISTERED No. 910082 STATE OF INDIANA PROFESSIONAL ENGINEER

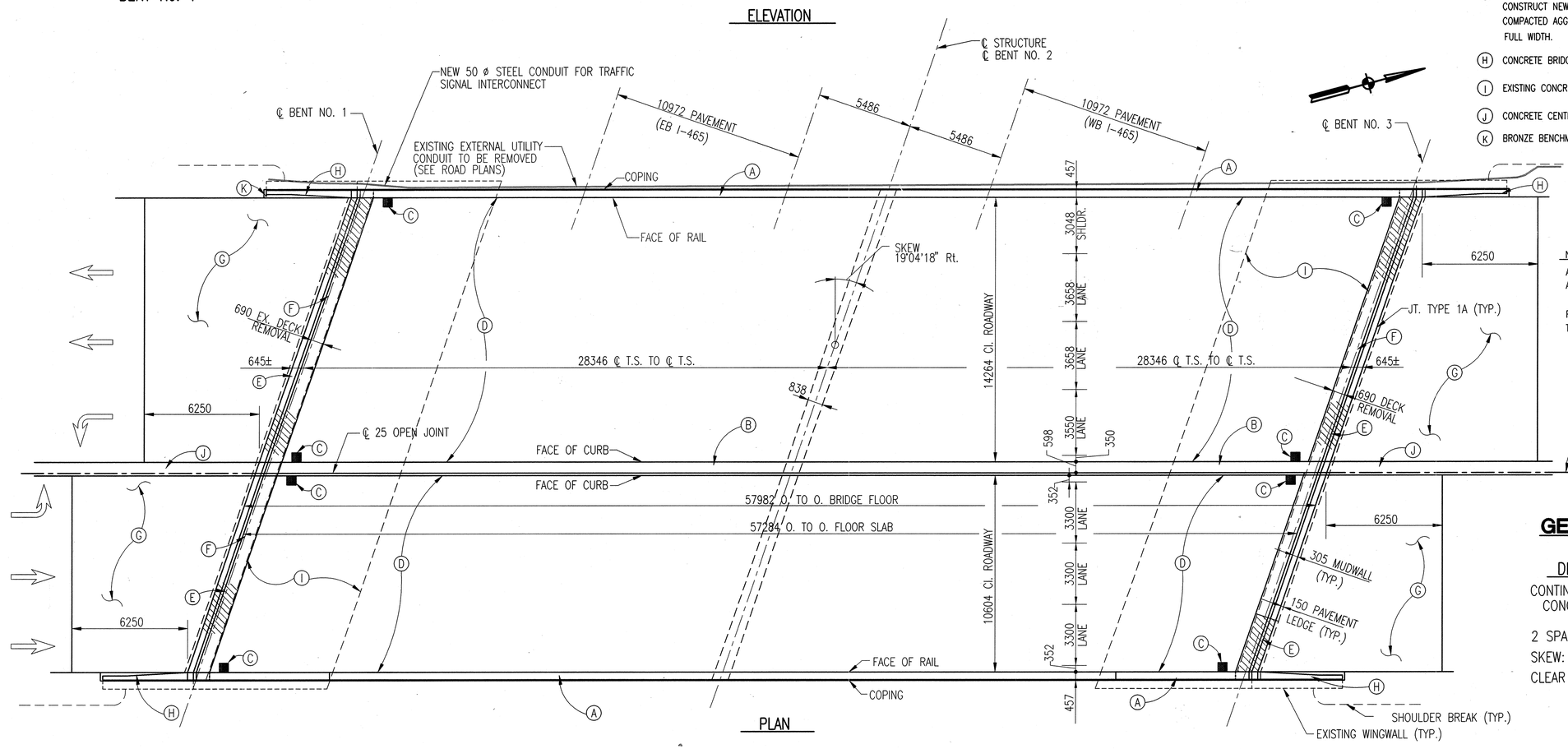
CONTRACT	PROJECT
R-24315	STP-B008 ( )

BRIDGE FILE
1465-126-5273B
DESIGNATION
9881531
SHEETS
1 of 15

STRUCTURE BUILT TO A 179.832 m VERTICAL CURVE



ELEVATION



PLAN

LEGEND:

- (A) REMOVE EXISTING ALUMINUM BRIDGE RAIL AND PORTION OF EXISTING CONCRETE CURB SURFACE. CONSTRUCT NEW CONCRETE BRIDGE RAIL.
- (B) REMOVE EXISTING CONCRETE MEDIAN CURB AND ALUMINUM RAIL. CONSTRUCT NEW CONCRETE MEDIAN CURB.
- (C) ROADWAY DRAIN TYPE "SQ" W/ TYPE "A" GRATE TO REMAIN IN PLACE.
- (D) REMOVE EXISTING BRIDGE DECK OVERLAY. SURFACE MILL 6mm. REMOVE DETERIORATED AREAS OF EXISTING BRIDGE DECK (ESTIMATED PARTIAL DECK PATCHING = 2%, ESTIMATED FULL DEPTH PATCHING = 2%.) CONSTRUCT NEW BRIDGE DECK OVERLAY OVER ENTIRE BRIDGE DECK.
- (E) REMOVE EXISTING BS EXPANSION JOINT. REMOVE PORTION OF EXISTING END BENT AND DECK SLAB. CONSTRUCT NEW "EXPANSION JOINT SEALING SYSTEM," NEW BRIDGE DECK, AND PORTION OF NEW END BENT.
- (F) REMOVE EXISTING STEEL END BENT DIAPHRAGMS. "FLIP OVER" DIAPHRAGM AND RESET TO MEET CURRENT DIAPHRAGM INSTALLATION STANDARDS. BLAST, CLEAN, AND PAINT EXISTING EXPANSION BEARINGS (PRIOR TO DECK OVERLAY PLACEMENT).
- (G) REMOVE EXISTING R.C. BRIDGE APPROACHES FULL WIDTH. CONSTRUCT NEW 250 mm R.C. BRIDGE APPROACH ON COMPACTED AGGREGATE FOR BASE, TYPE "O", SIZE 53, FULL WIDTH.
- (H) CONCRETE BRIDGE RAILING TRANSITION, "TBC" AND SLAB EXTENSION.
- (I) EXISTING CONCRETE SLOPEWALL. (TO REMAIN IN PLACE)
- (J) CONCRETE CENTER CURB (SEE ROAD PLANS)
- (K) BRONZE BENCHMARK TO BE INSTALLED BY I.N.D.O.T.

NOTES:

ALL DIMENSIONS ARE IN MILLIMETERS (mm) AND ALL ELEVATIONS ARE IN METERS (m) UNLESS NOTED.

FOR GENERAL NOTES, STANDARD DRAWINGS, AND TYPICAL SECTIONS, SEE SHEET DWG. C2 AND C3.

GENERAL PLAN

DECK REHABILITATION

CONTINUOUS COMPOSITE REINFORCED CONCRETE STEEL BEAM BRIDGE

2 SPANS:	28346, 28346
SKEW:	19°04'18" Rt.
CLEAR ROADWAY:	10604 (NB)
	14264 (SB)

DWG C1 OF C14

RICHARD J. ZIELINSKI REGISTERED No. 910082 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL Richard J. Zielinski 3/9/09
DESIGN ENGINEER DATE

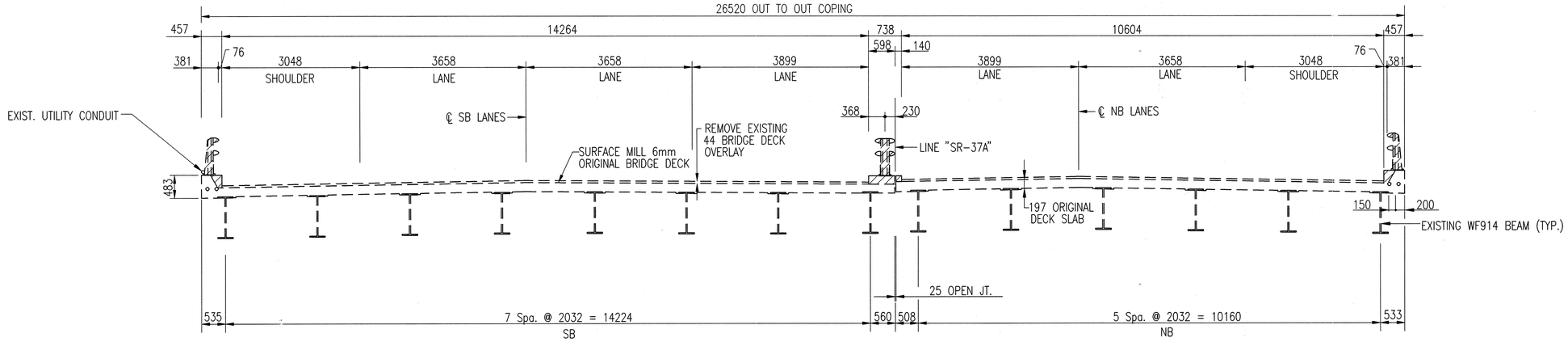
DESIGNED: RJZ DRAWN: BDC

CHECKED: PLK CHECKED: RJZ

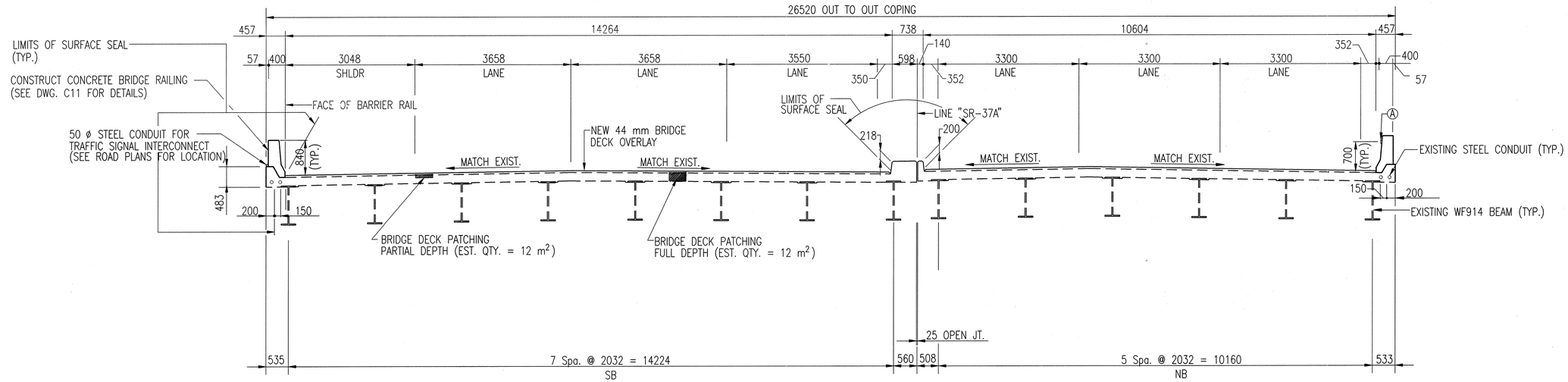
INDIANA DEPARTMENT OF TRANSPORTATION

ALLISONVILLE ROAD OVER I-465 GENERAL PLAN

HORIZONTAL SCALE	BRIDGE FILE
1	I465-126-5273B
VERTICAL SCALE	DESIGNATION
1:125	9881531
SURVEY BOOK	SHEETS
	2 of 15
CONTRACT	PROJECT
	STP-B008 ( )



EXISTING TYPICAL SECTION



Ⓐ BARRIER DELINEATORS SPACED AT 6000 C. TO C.

PROPOSED TYPICAL SECTION

NOTES:

ALL DIMENSIONS ARE IN MILLIMETERS (mm) AND
ALL ELEVATIONS ARE IN METERS (m) UNLESS NOTED.

REMOVAL OF EXISTING BRIDGE RAILING TO BE INCLUDED IN PAY ITEM "BRIDGE RAILING, REMOVE". PORTIONS OF EXISTING CONCRETE CURB, TO BE REMOVED TO BE INCLUDED IN LSUM ITEM "PRESENT STRUCTURE, REMOVE PORTIONS". (TYP.)

GENERAL PLAN

DECK REHABILITATION

CONTINUOUS COMPOSITE REINFORCED CONCRETE
STEEL BEAM BRIDGE

2 SPANS:	28346, 28346
SKEW:	19°04'18" RT.
CLEAR ROADWAY:	10604 (NB)
	14264 (SB)

DWG C2 OF C14

RICHARD J. ZIELINSKI REGISTERED No. 910082 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL Richard J. Zielinski 3/9/09
DESIGN ENGINEER DATE

DESIGNED: RJZ | DRAWN: BDC
CHECKED: PLK | CHECKED: RJZ

INDIANA DEPARTMENT OF TRANSPORTATION

ALLISONVILLE ROAD OVER I-465
GENERAL PLAN

HORIZONTAL SCALE	BRIDGE FILE
1:50	I465-126-5273B
VERTICAL SCALE	DESIGNATION
1:50	9881531
SURVEY BOOK	SHEETS
	3 of 15
CONTRACT	PROJECT
	STP-B008 ( )

STANDARD DRAWING INDEX

STANDARDS	PURPOSE
501-CCPJ-03	LONGITUDINAL CONSTRUCTION JOINT
501-CCPJ-08	TRANSVERSE CONSTRUCTION JOINT
610-RCBA-05	R.C. BRIDGE APPROACH - SAMPLE DETAILS
703-BRST-01	BAR BENDING DETAILS
706-BCBR-01	840 mm CONCRETE BRIDGE RAILING
706-BCBR-04	DELINEATORS FOR CONCRETE BRIDGE RAILING
706-CBRT-01	CONCRETE BRIDGE RAILING TRANSITION
706-TASE-01	TBC SLAB EXTENSION
706-TASE-05	SLAB EXTENSION NOTES
706-TTBC-01	CONCRETE BRIDGE RAILING TRANSITION "TBC"
706-TTBC-02	CONCRETE BRIDGE RAILING TRANSITION "TBC"
706-TTBC-03	CONCRETE BRIDGE RAILING TRANSITION "TBC"
724-BJTS-01	TYPE "A" JOINTS

GENERAL NOTES

PLANS FOR THE EXISTING STRUCTURE ARE ON FILE WITH THE INDIANA DEPARTMENT OF TRANSPORTATION AND ARE AVAILABLE UPON REQUEST. ALL EXISTING DIMENSIONS AND ELEVATIONS TAKEN FROM EXISTING PLANS AND CONVERTED TO SI UNITS. CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE ANY WORK IS TO COMMENCE.

THE HAND CHIPPING AND CLEANING OF DETERIORATED DECK AREAS SHALL BE AS DIRECTED BY THE ENGINEER. IT IS THE INTENT OF THESE PLANS THAT ALL SUCH DETERIORATED CONCRETE BE REMOVED AND SHOULD THERE BE ANY DOUBT AS TO THE QUALITY OF THE CONCRETE. REMOVAL SHALL CONTINUE UNTIL PERFECTLY SOUND CONCRETE IS EXPOSED. ALL EXPOSED NON-FULL DEPTH PATCHES SHALL BE REMOVED.

CONCRETE IN PATCHES FOR DETERIORATED DECK AREAS BELOW MILLED DEPTH SHALL BE MODIFIED PORTLAND CEMENT CONCRETE OR BRIDGE DECK PATCHING CONCRETE. SEE THE STANDARD SPECIFICATIONS.

SURFACE SEAL SHALL BE REQUIRED ON VERTICAL FACES AND TOP OF BRIDGE RAILING, FRONT FACE OF MUDWALL WHERE NEWLY CONSTRUCTED AND TOP AND SIZES OF COPINGS (ESTIMATED QUANTITY = 336 m^2)

REINFORCING STEEL QUANTITY INCLUDES 100 KG OF #16 EPOXY COATED REINFORCING STEEL AS AN UNDISTRIBUTED QUANTITY FOR REPLACING BADLY CORRODED DECK REINFORCING.

REINFORCING STEEL COVERING SHALL BE 64 mm IN TOP AND 25 mm MIN. IN BOTTOM OF FLOOR SLAB AND 50 mm IN ALL OTHER LOCATIONS, UNLESS NOTED.

REFER TO ROADWAY PLANS FOR APPROACH WORK AND MAINTENANCE OF TRAFFIC

DESIGN DATA

REINFORCED CONCRETE
CONCRETE, CLASS "C", f'c = 27 MPa
REINFORCING STEEL f'y = 410 MPa (GR. 60)

LIVE LOADS:
DESIGNED FOR HS20-44 LOADING IN ACCORDANCE WITH 1995 AASHTO SPECIFICATIONS.

MATERIAL NOTES

BRIDGE DECK OVERLAY:
44 mm MODIFIED PORTLAND CEMENT CONCRETE OR 64 mm DENSE PORTLAND CEMENT CONCRETE (38 mm OR 57 mm RESPECTIVELY ABOVE THE ORIGINAL DECK SURFACE).

CONCRETE IN BRIDGE RAILING:
CONCRETE, CLASS "C", IN RAILING

REINFORCING STEEL:
ALL REINFORCING STEEL TO BE GRADE 60 (410 MPA)

GENERAL PLAN

DECK REHABILITATION

CONTINUOUS COMPOSITE REINFORCED CONCRETE STEEL BEAM BRIDGE

2 SPANS:	28346, 28346
SKEW:	19°04'18" Rt.
CLEAR ROADWAY:	10604 (NB)
	14264 (SB)

DWG C3 OF C14

RICHARD J. ZIELINSKI REGISTERED No. 910082 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 3/9/09 DATE

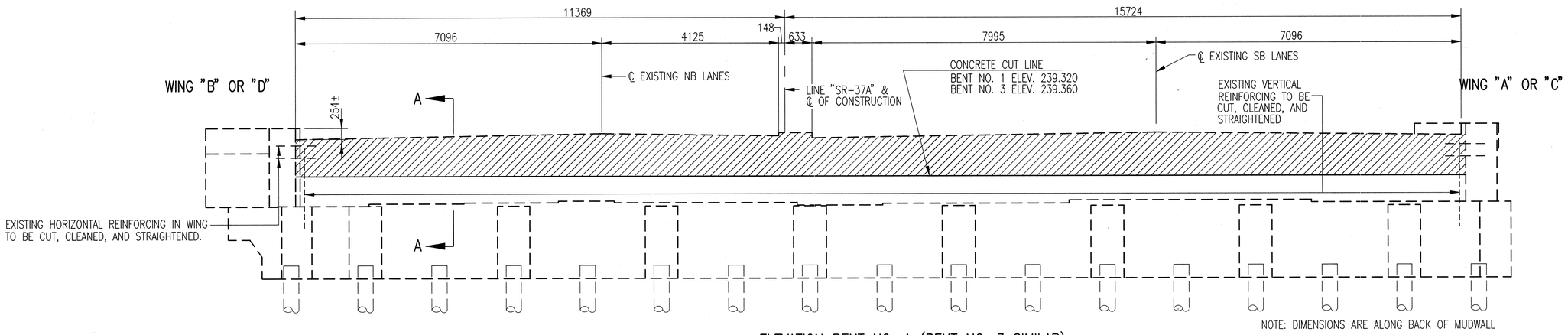
DESIGNED: RJZ | DRAWN: BDC

CHECKED: PLK | CHECKED: RJZ

INDIANA DEPARTMENT OF TRANSPORTATION

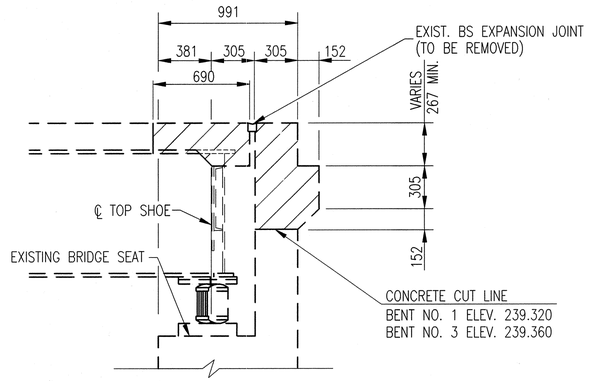
ALLISONVILLE ROAD OVER I-465 GENERAL PLAN

HORIZONTAL SCALE	BRIDGE FILE
1:50	I465-126-5273B
VERTICAL SCALE	DESIGNATION
1:50	9881531
SURVEY BOOK	SHEETS
	4 of 15
CONTRACT	PROJECT
	STP-B008 ( )



NOTE: DIMENSIONS ARE ALONG BACK OF MUDWALL

ELEVATION BENT NO. 1 (BENT NO. 3 SIMILAR)



SECTION A–A
SCALE 1:20

NOTES:

HATCHED AREA INDICATES PORTIONS TO BE REMOVED.

ALL REMOVAL WILL BE PAID FOR AS "PRESENT STRUCTURE, REMOVE PORTIONS", LSUM.

EXISTING STRUCTURAL STEEL, BEARINGS AND SLAB NOT SHOWN FOR CLARITY.

REMOVAL OF EXISTING BS JOINT TO BE INCLUDED IN THE COST OF "PRESENT STRUCTURES, REMOVE PORTIONS"

DWG C4 OF C14

RICHARD J. ZIELINSKI REGISTERED No. 910082 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 3/9/99 DATE

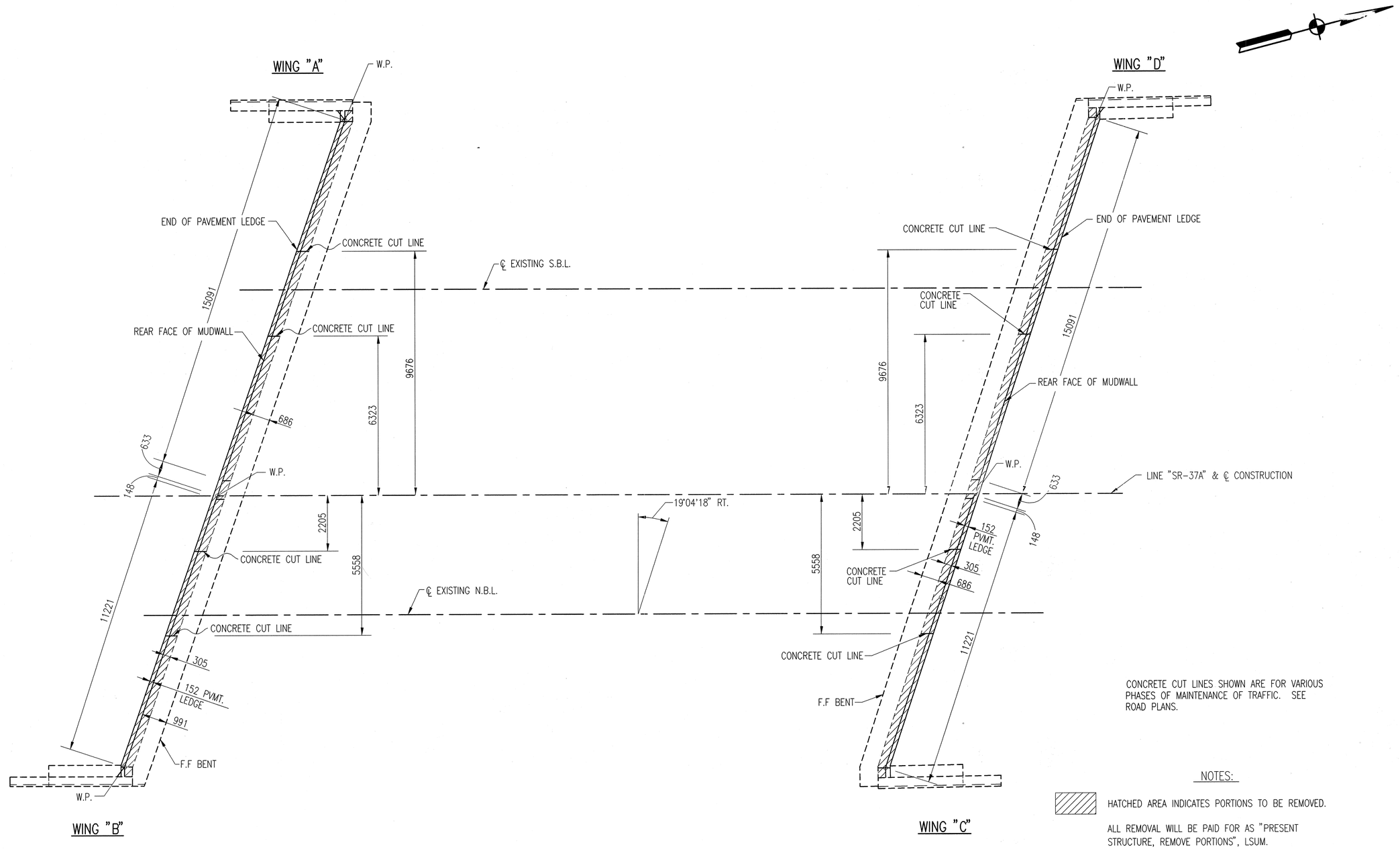
DESIGNED: RJZ | DRAWN: BDC

CHECKED: PLK | CHECKED: RJZ

INDIANA DEPARTMENT OF TRANSPORTATION

BENT NO. 1 AND BENT NO.3 REMOVAL DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1:50 UNLESS NOTED	I465-126-5273B
VERTICAL SCALE	DESIGNATION
1:50 UNLESS NOTED	9881531
SURVEY BOOK	SHEETS
	5 of 15
CONTRACT	PROJECT
	STP-B008 ( )



PLAN – BENT NO. 1 AND NO. 3 REMOVAL

CONCRETE CUT LINES SHOWN ARE FOR VARIOUS PHASES OF MAINTENANCE OF TRAFFIC. SEE ROAD PLANS.

NOTES:

HATCHED AREA INDICATES PORTIONS TO BE REMOVED.

ALL REMOVAL WILL BE PAID FOR AS "PRESENT STRUCTURE, REMOVE PORTIONS", LSUM.

EXISTING STRUCTURAL STEEL, BEARINGS AND SLAB NOT SHOWN FOR CLARITY.

FOR ADDITIONAL REMOVAL DETAILS, SEE DWG C4.

DWG C5 OF C14

RICHARD J. ZIELINSKI REGISTERED No. 910082 STATE OF INDIANA PROFESSIONAL ENGINEER

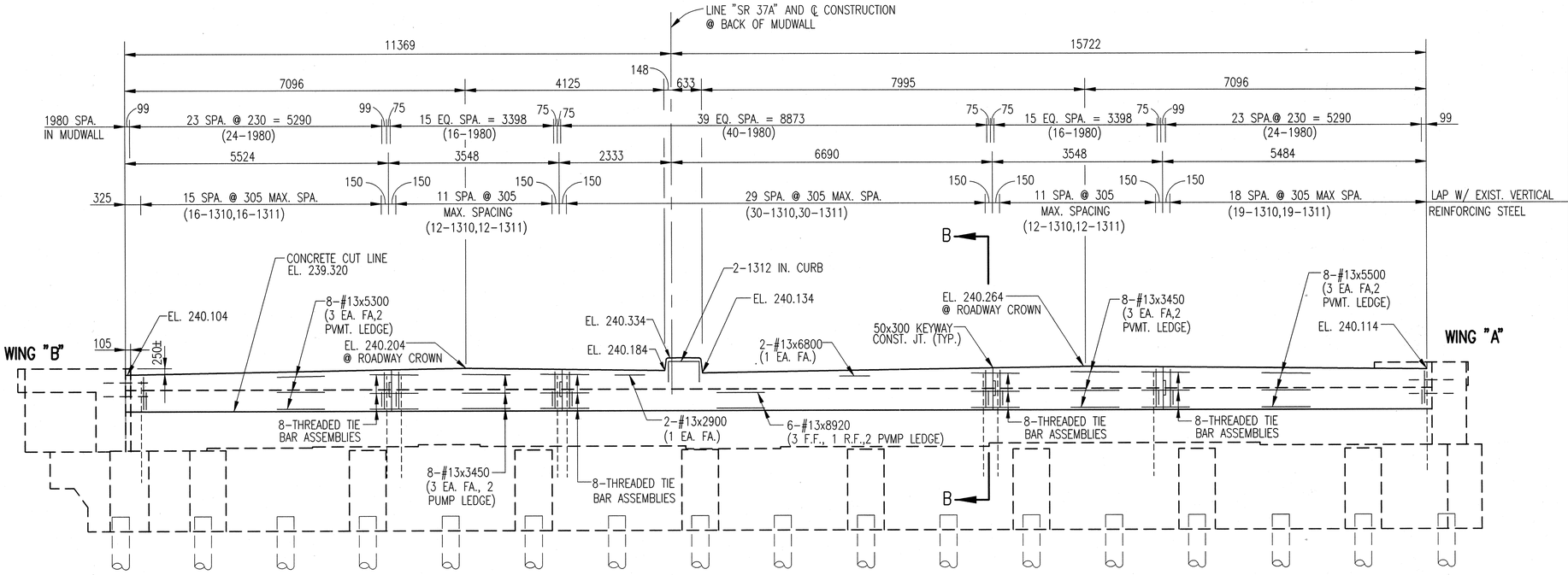
RECOMMENDED FOR APPROVAL Richard J. Zielinski 3/9/99
DESIGN ENGINEER DATE

DESIGNED: RJZ DRAWN: BDC
CHECKED: PLK CHECKED: RJZ

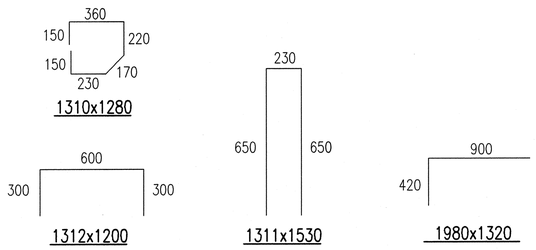
INDIANA DEPARTMENT OF TRANSPORTATION

BENT NO. 1 AND BENT NO. 3 REMOVAL DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1:75	I465-126-5273B
VERTICAL SCALE	DESIGNATION
1:75	9881531
SURVEY BOOK	SHEETS
	6 of 15
CONTRACT	PROJECT
	STP-B008 ( )



ELEVATION BENT NO. 1



BILL OF MATERIALS
BENT No. 1

Size Or Mark	Number Of Bars	Length (mm)	Weight (kg)
Epoxy Coated Reinforcing Steel			
1980	120	1320	
TOTAL		#19	354 kg.
1310	89	1280	
1311	89	1530	
1312	2	1200	
#13	6	8920	
#13	2	6800	
#13	8	5500	
#13	8	5300	
#13	16	3450	
#13	2	2900	
TOTAL		#13	464 kg.
TOTAL E.C. REINF. STEEL			818 kg.
CONCRETE			
CONCRETE, CLASS 'C', IN SUPERSTRUCTURE			8.6 m^3
MISCELLANEOUS			
THREADED TIE BAR ASSEMBLIES			32 ea.

NOTES:

FOR SEC B-B, AND ADDITIONAL DETAILS SEE DWG. C8.

FOR REINFORCING BAR NOTES, SEE BR. STD. 703 -BRST-01.

ALL DIMENSIONS ARE IN MILLIMETERS (mm) AND ALL ELEVATIONS ARE IN METERS (m) UNLESS NOTED.

ALL REINFORCING STEEL TO BE EPOXY COATED.

ALL ELEVATIONS TO BE FIELD VERIFIED BEFORE WORK IS TO COMMENCE.

RAISED MEDIAN CURB TO MATCH MEDIAN CURB ON FLOOR SLAB. SEE DETAIL ON DRAWING C9.

RICHARD J. ZIELINSKI REGISTERED No. 910082 STATE OF INDIANA PROFESSIONAL ENGINEER

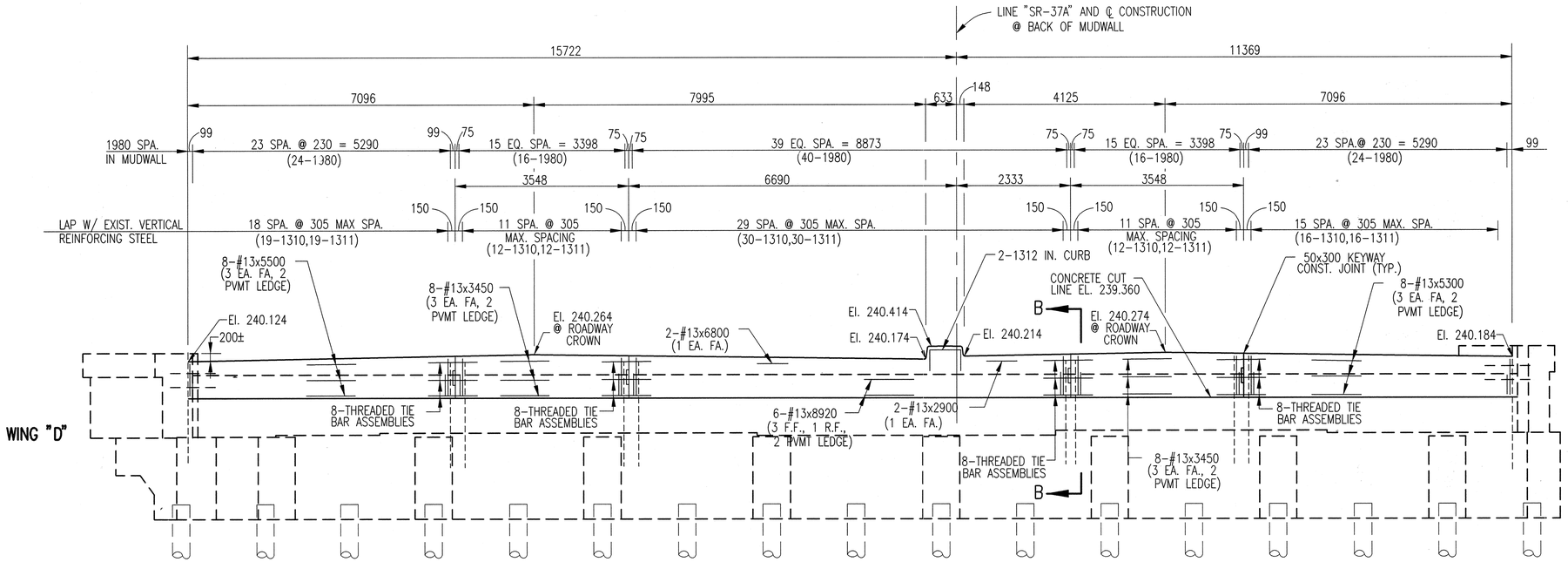
RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — DATE 3/9/09

DESIGNED: RJZ | DRAWN: BDC | CHECKED: PLK | CHECKED: RJZ

INDIANA DEPARTMENT OF TRANSPORTATION

ALLISONVILLE ROAD OVER I-465
BENT NO. 1 DETAILS

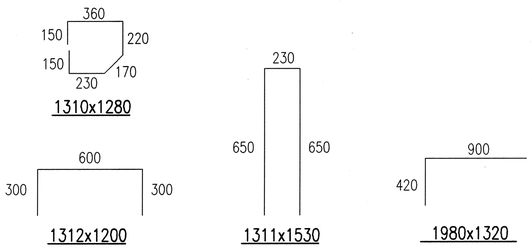
HORIZONTAL SCALE	BRIDGE FILE
1:50 UNLESS NOTED	1465-126-5273B
VERTICAL SCALE	DESIGNATION
1:50 UNLESS NOTED	9881531
SURVEY BOOK	SHEETS
	7 of 15
CONTRACT	PROJECT
	STP-B008 ( )



ELEVATION BENT NO. 3

BILL OF MATERIALS
BENT No. 3

Size Or Mark	Number Of Bars	Length (mm)	Weight (kg)
Epoxy Coated Reinforcing Steel			
1980	120	1320	
TOTAL		#19	354 kg.
1310	89	1280	
1311	89	1530	
1312	2	1200	
#13	6	8920	
#13	2	6800	
#13	8	5500	
#13	8	5300	
#13	16	3450	
#13	2	2900	
TOTAL		#13	464 kg.
TOTAL E.C. REINF. STEEL			818 kg.
CONCRETE			
CONCRETE, CLASS 'C', IN SUPERSTRUCTURE			8.6 m^3
MISCELLANEOUS			
THREADED TIE BAR ASSEMBLIES			32 ea.



NOTES:

FOR SEC B–B, AND ADDITIONAL DETAILS SEE DWG. C8.

FOR REINFORCING BAR NOTES, SEE BR. STD. 703 –BRST–01.

ALL DIMENSIONS ARE IN MILLIMETERS (mm) AND ALL ELEVATIONS ARE IN METERS (m) UNLESS NOTED.

ALL REINFORCING STEEL TO BE EPOXY COATED.

ALL ELEVATIONS TO BE FIELD VERIFIED BEFORE WORK IS TO COMMENCE.

RAISED MEDIAN CURB TO MATCH MEDIAN CURB ON FLOOR SLAB. SEE DETAIL ON DRAWING C9.

RICHARD J. ZIELINSKI REGISTERED No. 910082 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 3/9/99 DATE

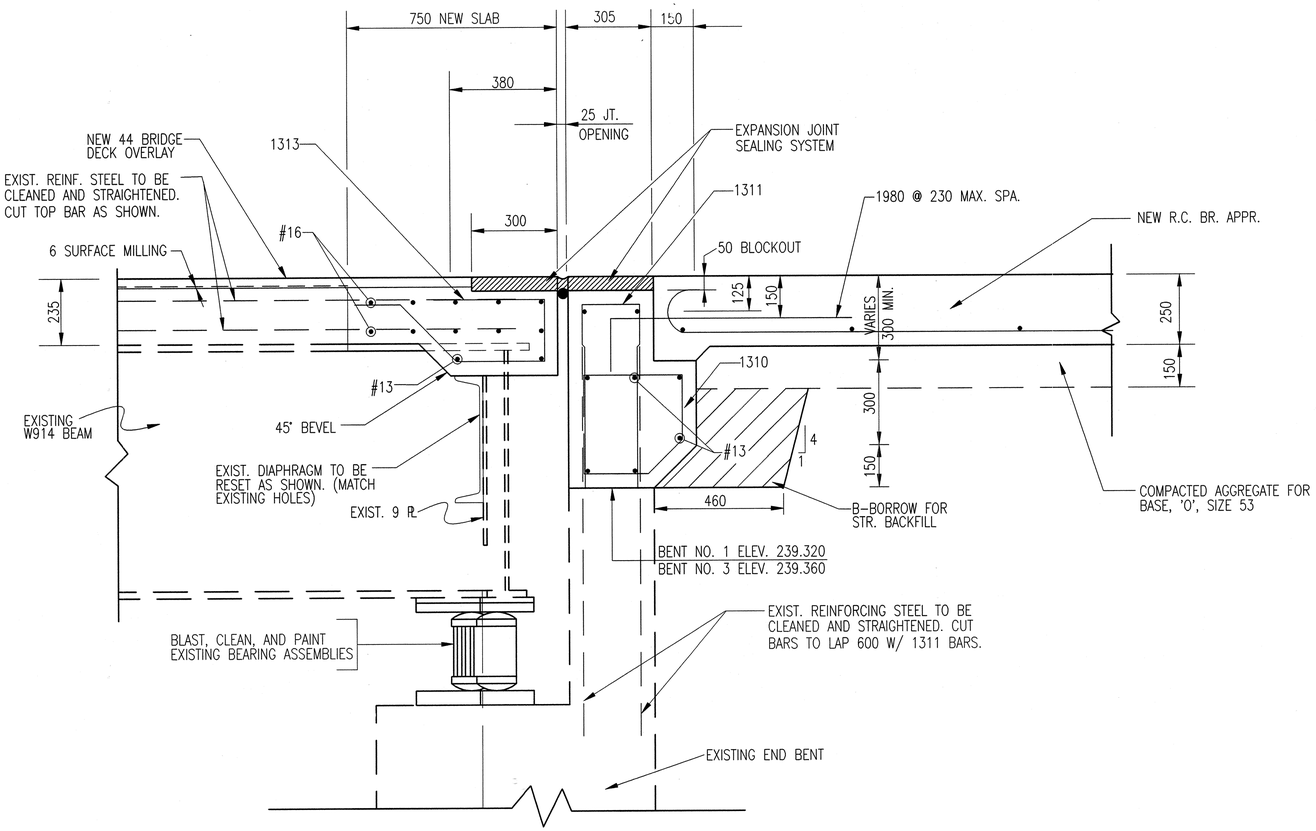
DESIGNED: RJZ | DRAWN: BDC

CHECKED: PLK | CHECKED: RJZ

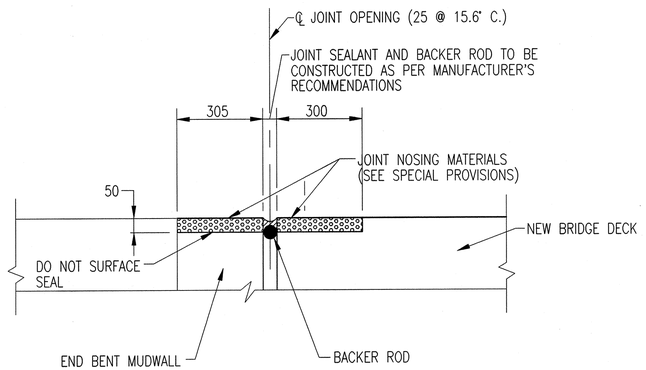
INDIANA DEPARTMENT OF TRANSPORTATION

ALLISONVILLE ROAD OVER I-465
BENT NO. 3 DETAILS

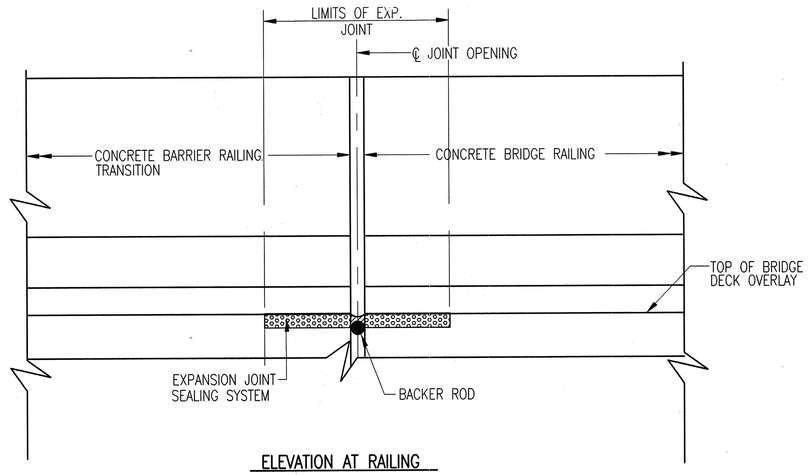
HORIZONTAL SCALE	BRIDGE FILE
1:50	I465-126-5273B
VERTICAL SCALE	DESIGNATION
1:50	9881531
SURVEY BOOK	SHEETS
	8 of 15
CONTRACT	PROJECT
	STP-B008 ( )



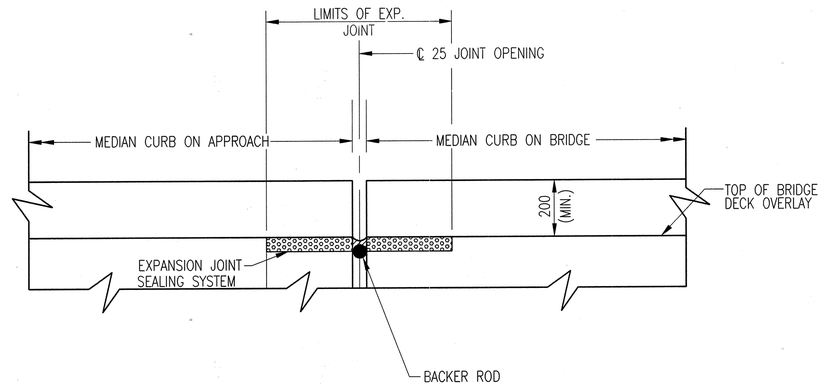
SECTION B-B



EXPANSION JOINT SEALING SYSTEM



ELEVATION AT RAILING



ELEVATION AT MEDIAN CURB

NOTES

ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS NOTED.

EXPANSION JOINT SEALING SYSTEM SHALL BE CONSTRUCTED PER MANUFACTURER'S SPECIFICATIONS. SEE SPECIAL PROVISIONS.

FOR ADDITIONAL DECK RECONSTRUCTION DETAILS AND BAR BENDING DIAGRAMS, SEE DWG. C9.

ALL REINFORCING STEEL IN MUDWALL AND SLAB TO BE EPOXY COATED.

FOR ADDITIONAL END BENT DETAILS, SEE DWG C6 AND C7.

FOR DIAPHRAGM RESETTING DETAIL, SEE DWG. C10.

FOR R.C. BRIDGE APPROACH DETAILS, SEE DWG C11 AND C12.

RICHARD J. ZIELINSKI REGISTERED No. 910082 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 3/9/99 DATE

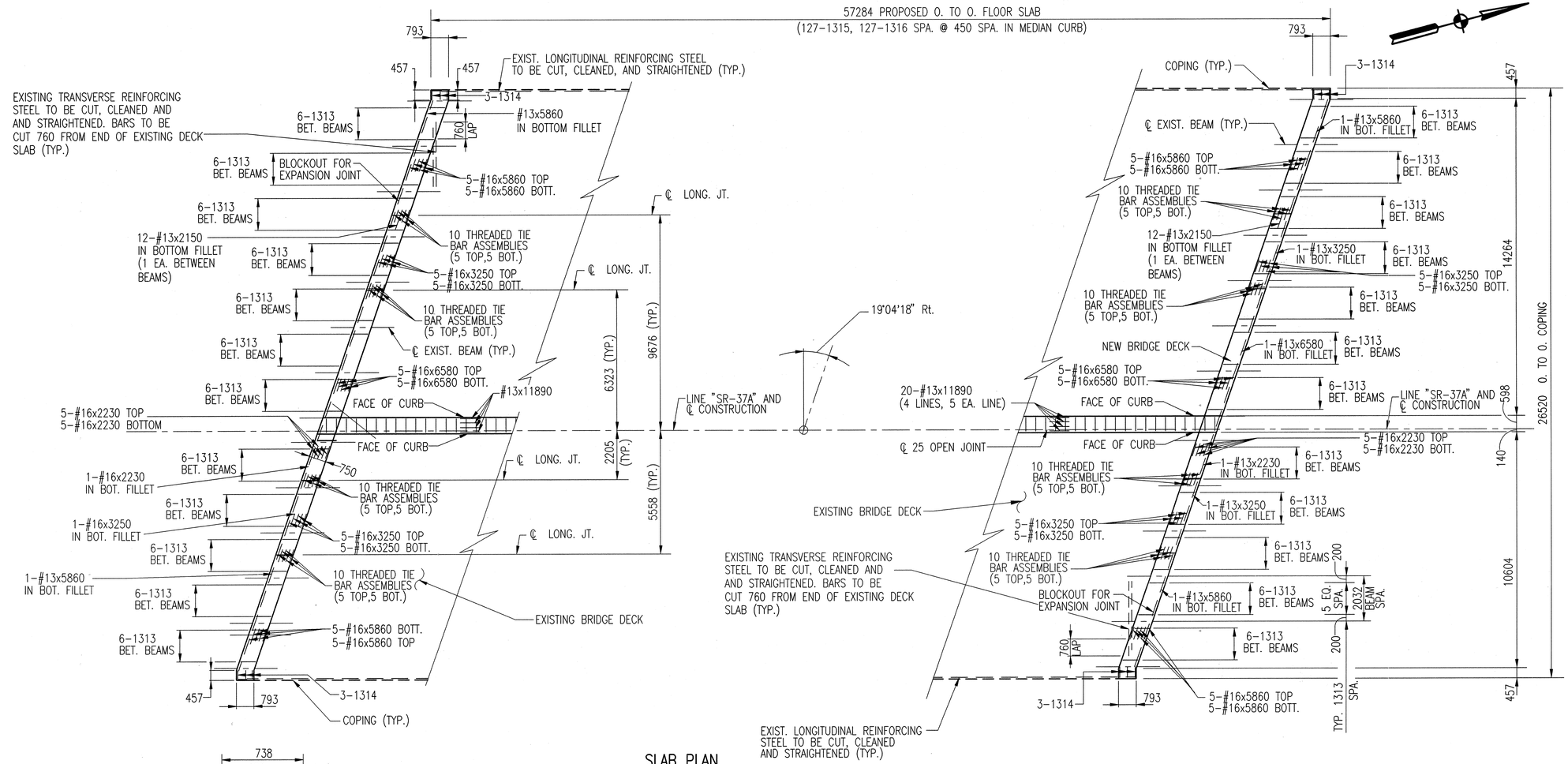
DESIGNED: RJZ | DRAWN: BDC

CHECKED: PLK | CHECKED: RJZ

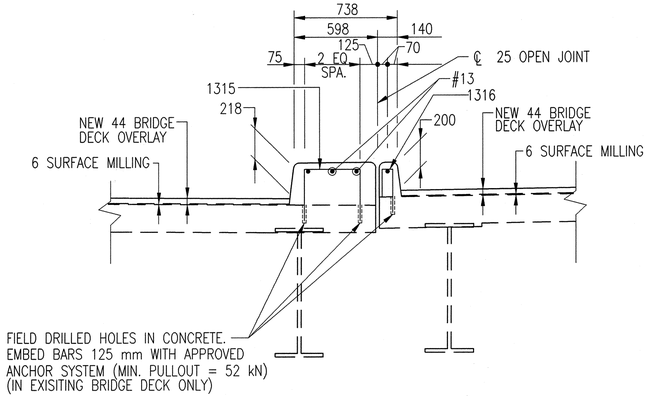
INDIANA DEPARTMENT OF TRANSPORTATION

ALLISONVILLE ROAD OVER I-465
EXPANSION JOINT SEALING SYSTEM DETAILS

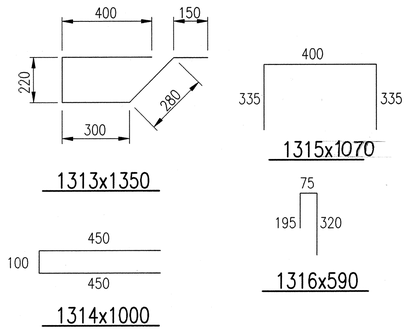
HORIZONTAL SCALE	BRIDGE FILE
1:10 UNLESS NOTED	I465-126-5273B
VERTICAL SCALE	DESIGNATION
1:10 UNLESS NOTED	9881531
SURVEY BOOK	SHEETS
	9 of 15
CONTRACT	PROJECT
	STP-B008 ( )



SLAB PLAN



BRIDGE MEDIAN CURB DETAIL
SCALE 1:20



NOTES

FOR REINFORCING BAR NOTES, SEE BR. STD. 703-BRST-01

ALL DIMENSIONS ARE IN MILLIMETERS (mm), UNLESS NOTED.

ALL REINFORCING IN SLAB TO BE EPOXY COATED.

FOR TYPICAL SECTION AT END BENT SEE DWG C8.

FOR SUPERSTRUCTURE BILL OF MATERIALS SEE DWG C10.

DWG C9 OF C14

RICHARD J. ZIELINSKI REGISTERED No. 910082 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 3/9/09 DATE

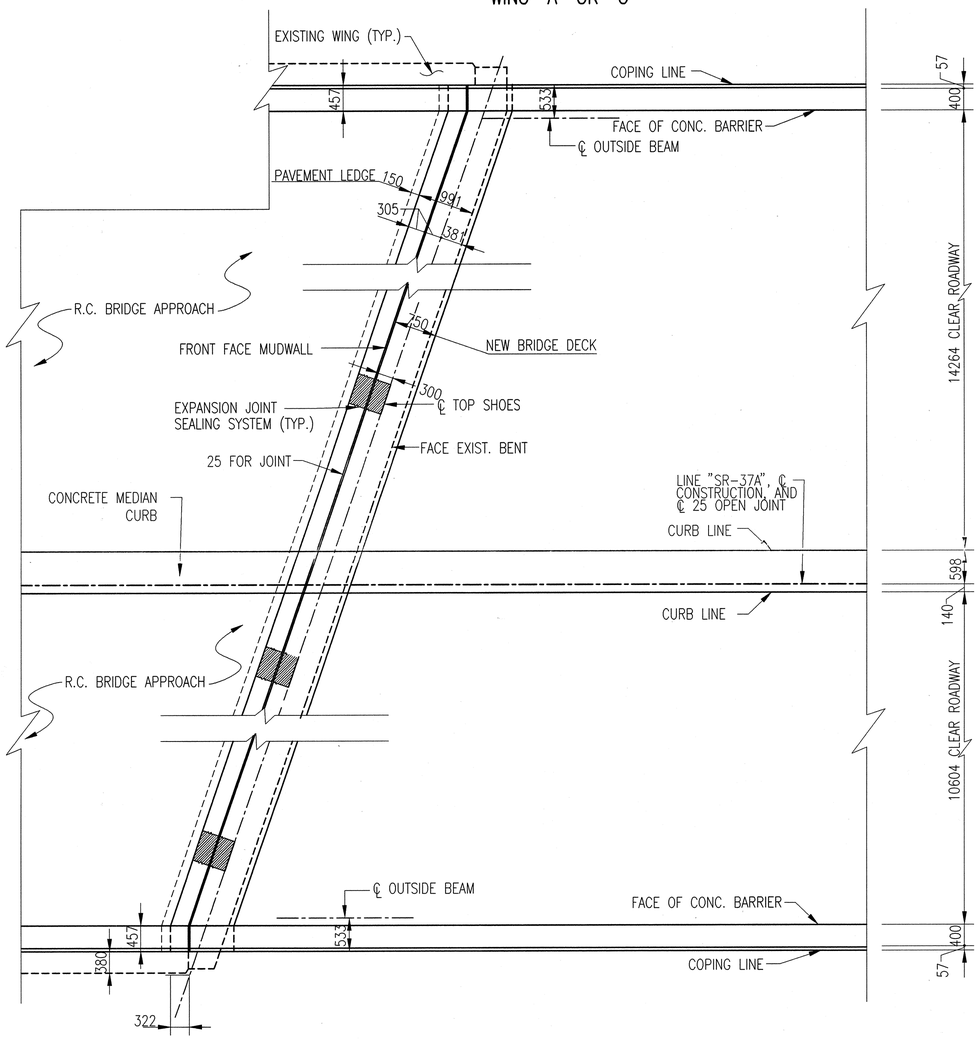
DESIGNED: RJZ | DRAWN: BDC

CHECKED: PLK | CHECKED: RJZ

INDIANA DEPARTMENT OF TRANSPORTATION

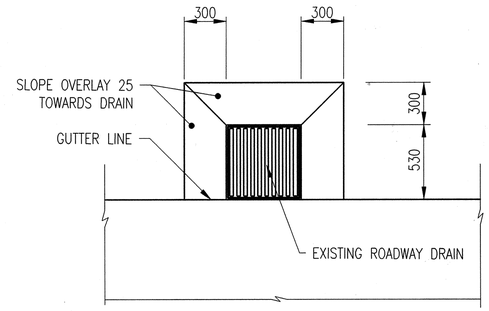
ALLISONVILLE ROAD OVER I-465 DECK RECONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1:100 UNLESS NOTED	I465-126-5273B
VERTICAL SCALE	DESIGNATION
1:100 UNLESS NOTED	9881531
SURVEY BOOK	SHEETS
	10 of 15
CONTRACT	PROJECT
	STP-B008 ( )



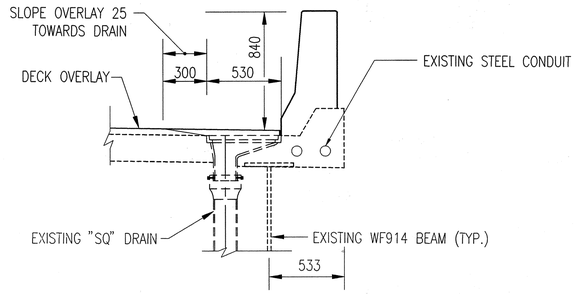
CORNER DETAILS

SCALE: 1:50



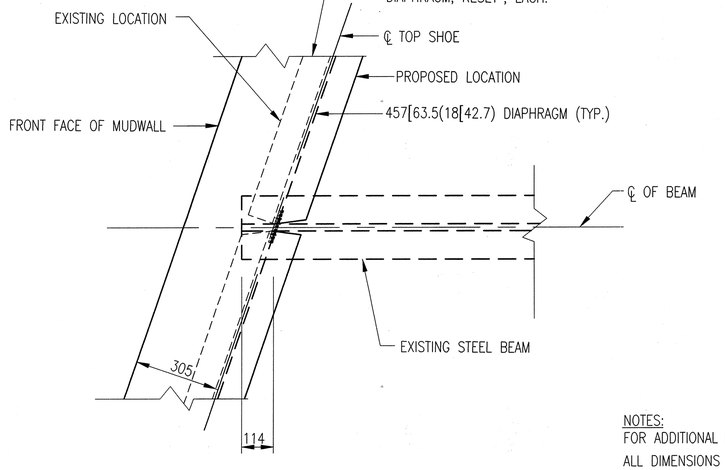
PLAN VIEW – ROADWAY DRAIN

SCALE: 1:20



TYPICAL ROADWAY DRAIN DETAIL

SCALE: 1:20



DETAIL "A"

SCALE: 1:10

NOTES:
FOR ADDITIONAL DECK RECONSTRUCTION DETAILS, SEE DWG C9.
ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS NOTED.

BILL OF MATERIALS SUPERSTRUCTURE

Size Or Mark	Number Of Bars	Length (mm)	Weight (kg)
EPOXY COATED REINFORCING STEEL			
#16	20	6580	
#16	40	5860	
#16	40	3250	
#16	20	2230	
TOTAL #16			839 kg
1313	144	1350	
1314	12	1000	
1315	127	1070	
1316	127	590	
#13	20	11890	
#13	2	6580	
#13	4	5860	
#13	4	3250	
#13	2	2230	
#13	24	2150	
TOTAL #13			745 kg
TOTAL EPOXY COATED REINFORCING STEEL			1584 kg
CONCRETE			
CONCRETE, CLASS "C", IN SUPERSTRUCTURE			23.5 m^3
MISCELLANEOUS			
THREADED TIE BAR ASSEMBLIES			80 ea.
FIELD DRILLED HOLES IN CONCRETE			381 ea.
EXPANSION JOINT SEALING SYSTEM			52.6 m
SURFACE SEAL (EST. QTY. = 384 m^2)			1 LSUM
DIAPHRAGM, RESET			24 ea.
BLAST, CLEAN, AND PAINT BEARING ASSEMBLIES			24 ea.

RICHARD J. ZIELINSKI REGISTERED No. 910082 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 3/9/09 DATE

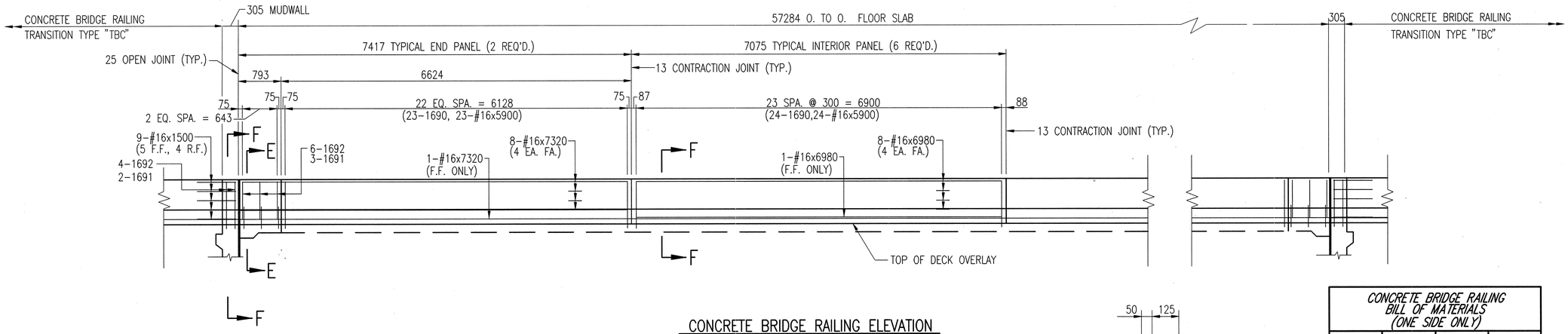
DESIGNED: RJZ DRAWN: BDC

CHECKED: PLK CHECKED: RJZ

INDIANA DEPARTMENT OF TRANSPORTATION

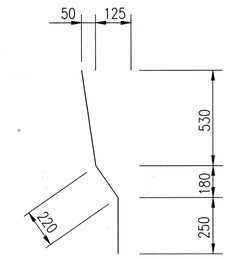
ALLISONVILLE ROAD OVER I-465
FLOOR DETAILS AND BILL OF MATERIALS

HORIZONTAL SCALE	BRIDGE FILE
1:50	I465-126-5273B
VERTICAL SCALE	DESIGNATION
1:50	9881531
SURVEY BOOK	SHEETS
	11 of 15
CONTRACT	PROJECT
	STP-B008 ( )

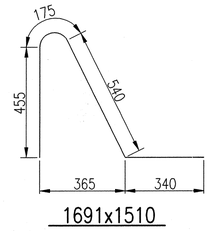


CONCRETE BRIDGE RAILING ELEVATION

SCALE: 1:40



1690x960



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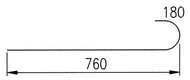
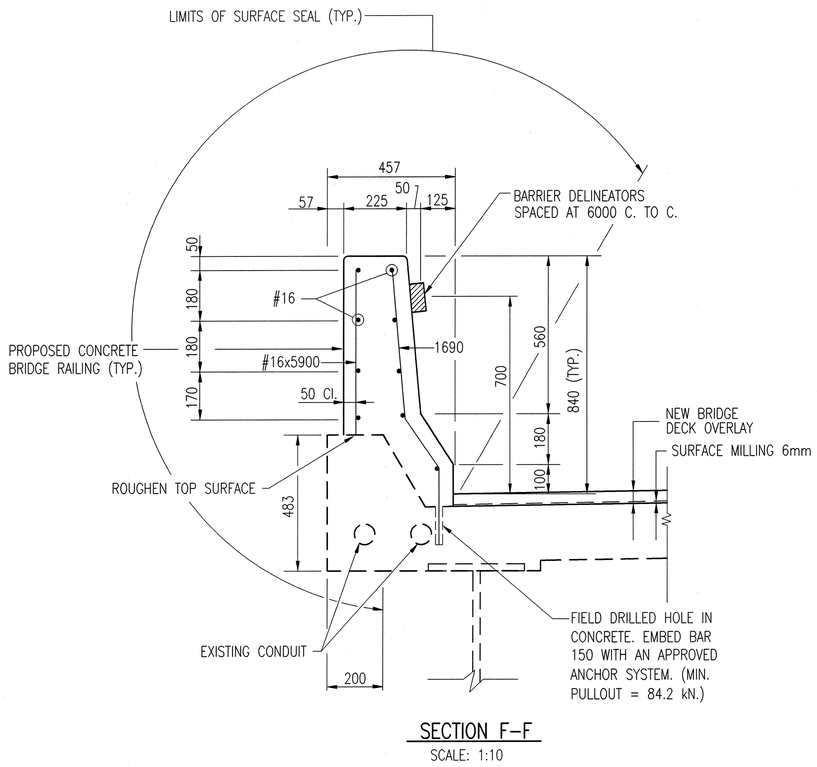


1692x940

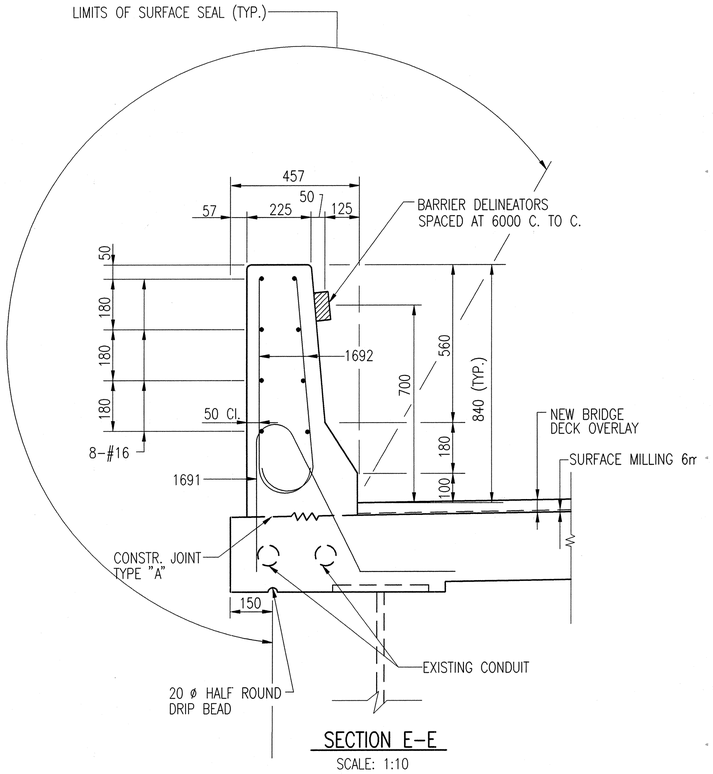
CONCRETE BRIDGE RAILING BILL OF MATERIALS (ONE SIDE ONLY)			
Size Or Mark	Number Of Bars	Length (mm)	Weight (kg)
EPOXY COATED REINFORCING STEEL			
1690	190	960	
1691	10	1510	
1692	20	940	
#16	18	7320	
#16	54	6980	
#16	190	5900	
#16	18	1500	
	TOTAL	#16	2907 kg.
CONCRETE			
CONCRETE, 'C', IN RAILING			12.0 m³
MISCELLANEOUS			
BARRIER DELINEATORS			11 EA.
FIELD DRILLED HOLES IN CONCRETE			190 EA.

* BILL OF MATERIALS IS FOR ONE COPING ONLY. TWO REQ'D.



SECTION F-F

SCALE: 1:10



SECTION E-E

SCALE: 1:10

NOTES

ALL DIMENSIONS ARE IN MILLIMETERS (mm) AND ALL ELEVATIONS ARE IN METERS (m) UNLESS OTHERWISE NOTED.

FOR REINFORCING BAR NOTES, SEE BR. STD. 703-BRST-01.

ALL REINFORCING STEEL TO BE EPOXY COATED.

CONSTRUCTION OF RAIL OVER END BENT MUDWALL TO BE SIMILAR TO SECITON E-E

RICHARD J. ZIELINSKI REGISTERED No. 910082 STATE OF INDIANA PROFESSIONAL ENGINEER

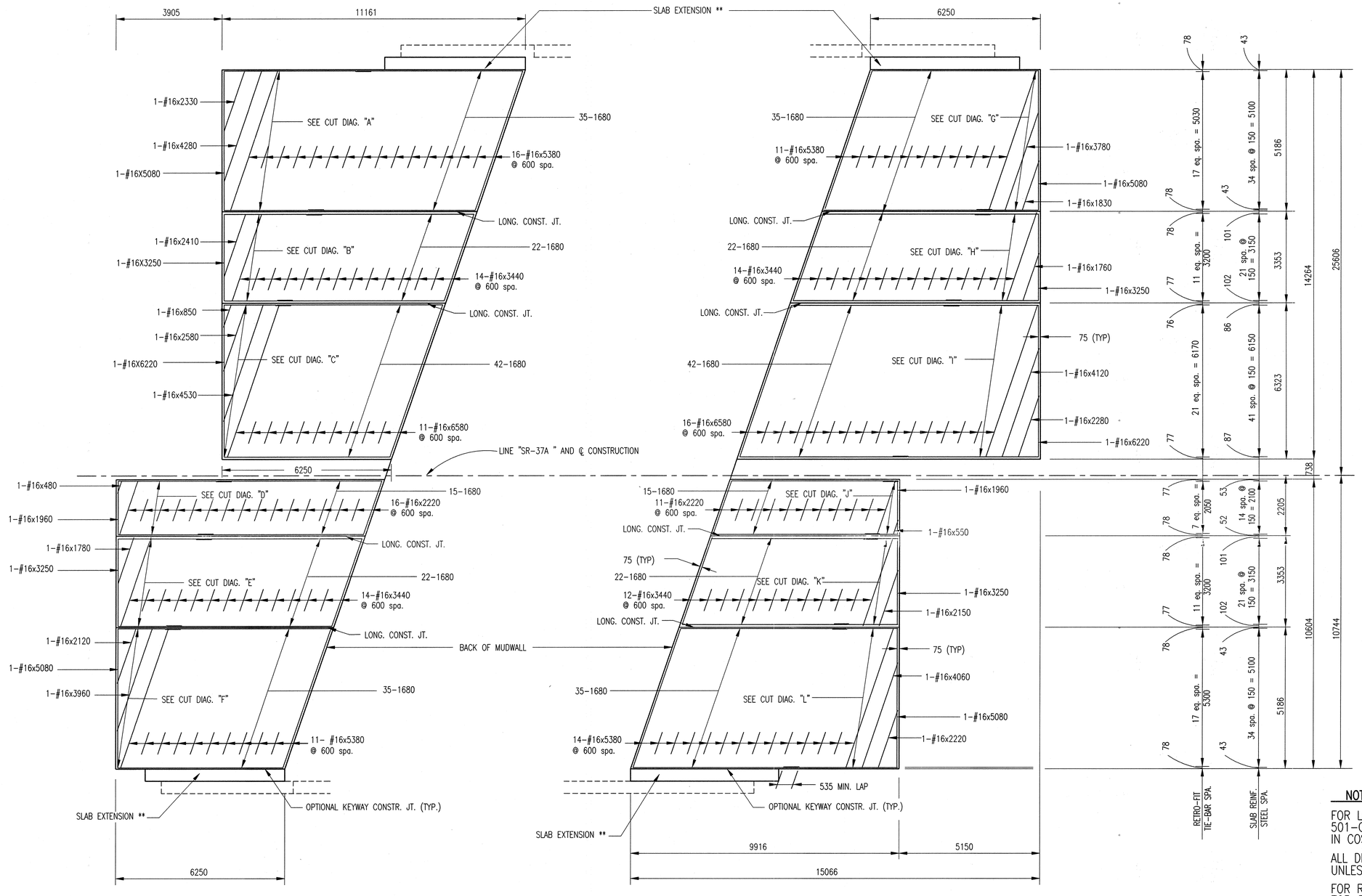
RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — DATE 3/9/99

DESIGNED: RJZ | DRAWN: BDC | CHECKED: PLK | CHECKED: RJZ

INDIANA DEPARTMENT OF TRANSPORTATION

ALLISONVILLE ROAD OVER I-465
CONCRETE BRIDGE RAIL DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS SHOWN	I465-126-5273B
VERTICAL SCALE	DESIGNATION
AS SHOWN	9881531
SURVEY BOOK	SHEETS
	12 of 15
CONTRACT	PROJECT
	STP-B008 ( )



APPROACH SLAB BENT NO. 1

APPROACH SLAB BENT NO. 3

NOTES

FOR LONGITUDINAL CONST. JT., SEE RD. STD. 501-CCPJ-03 (REINFORCING TO BE INCLUDED IN COST OF CONCRETE PAVEMENT.)

ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.

FOR REINFORCING BAR NOTES, SEE BR. STD. 703-BRST-01.

FOR ADDITIONAL R.C. BR. APPR. DETAILS, SEE DWG. C13.

FOR PLACEMENT OF 1980 BARS, SEE DWG. C8

** FOR R.C. BRIDGE RAILING TRANSITION TBC SLAB EXTENSION SEE BR. STD. 706-TASE-01

RICHARD J. ZIELINSKI REGISTERED No. 910082 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 3/4/09 DATE

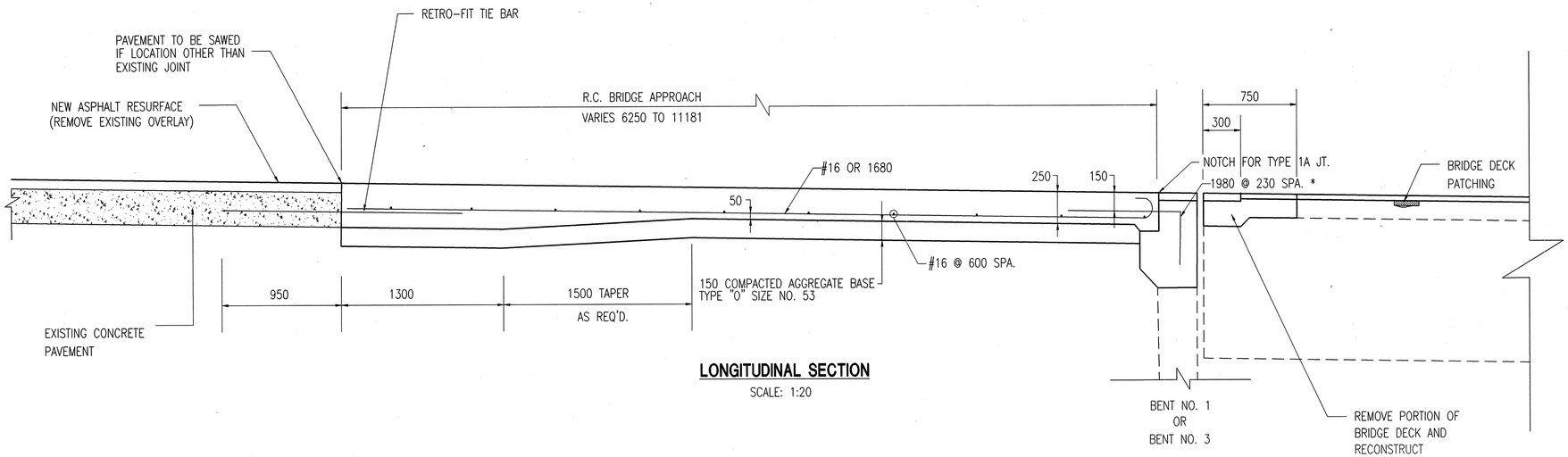
DESIGNED: RJZ | DRAWN: BDC

CHECKED: PLK | CHECKED: RJZ

INDIANA DEPARTMENT OF TRANSPORTATION

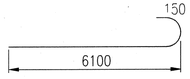
ALLISONVILLE ROAD OVER I-465
R.C. BRIDGE APPROACH DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1:75	I465-126-5273B
VERTICAL SCALE	DESIGNATION
1:75	9881531
SURVEY BOOK	SHEETS
	13 of 15
CONTRACT	PROJECT
	STP-B008 ( )



LONGITUDINAL SECTION

SCALE: 1:20



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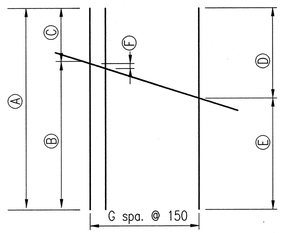

CUTTING DIAGRAM

CUTTING DIAGRAM		DIMENSIONS						
		A	B	C	D	E	F	G
	A	9060	5410	3650	4530	4530	52	17
	B	6110	3600	2510	3055	3055	55	10
	C	3000	2460	540	1500	1500	48	20
	D	7640	4160	3480	3820	3820	49	7
	E	5750	3430	2320	2875	2875	56	10
	F	2830	2290	540	1415	1415	52	17
	G	2810	2270	540	1405	1405	51	17
	H	5710	3390	2320	2855	2855	54	10
	I	8780	5330	3450	4390	4390	47	20
	J	1780	1240	540	890	890	50	7
	K	3670	2380	1290	1835	1835	55	10
	L	6610	4180	2430	3305	3305	52	17

CUTTING DIAGRAM

BILL OF MATERIALS
R.C. BRIDGE APPROACHES

Size Or Mark	Number Of Bars	Length (mm)	Weight (kg)
	REINFORCING STEEL		
1680	342	6250	
#16	18	9060	
#16	21	8780	
#16	8	7640	
#16	18	6610	
#16	27	6580	
#16	2	6220	
#16	11	6110	
#16	11	5750	
#16	11	5710	
#16	52	5380	
#16	4	5080	
#16	1	4530	
#16	1	4280	
#16	1	4120	
#16	1	4060	
#16	1	3960	
#16	1	3780	
#16	11	3670	
#16	54	3440	
#16	4	3250	
#16	21	3000	
#16	18	2830	
#16	18	2810	
#16	1	2580	
#16	1	2410	
#16	1	2330	
#16	1	2280	
#16	28	2220	
#16	1	2150	
#16	1	2120	
#16	2	1960	
#16	1	1830	
#16	9	1780	
#16	1	1760	
#16	1	850	
#16	1	550	
#16	1	480	
		TOTAL #16	6019 kg
	CONCRETE		
CEMENT CONCRETE PAVEMENT, REINFORCED, 250 mm			420.0 m^3
	MISCELLANEOUS		
RETRO-FIT TIE-BARS			180 ea.
COMPACTED AGGREGATE BASE, "O" SIZE No. 53.			152.6 m^3

NOTES

SEE ROAD STANDARD 501-CCPJ-08 FOR TRANSVERSE JOINT DETAILS

ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.

FOR REINFORCING BAR NOTES, SEE BR. STD. 703-BRST-01.

FOR PLACEMENT OF 1980 BARS, SEE DWG C6 AND C7.

** FOR R.C. BRIDGE RAILING TRANSITION TBC SLAB EXTENSION AND EXTENSION BILL OF MATERIALS SEE BR. STD. 706-TASE-01.

RICHARD J. ZIELINSKI REGISTERED No. 910082 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE 3/9/17

DESIGNED: RJZ DRAWN: BDC

CHECKED: PLK CHECKED: RJZ

INDIANA DEPARTMENT OF TRANSPORTATION

ALLISONVILLE ROAD OVER I-465
R.C. BRIDGE APPROACH DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1:75	I465-126-5273B
VERTICAL SCALE	DESIGNATION
1:75	9881531
SURVEY BOOK	SHEETS
	14 of 15
CONTRACT	PROJECT
	STP-B008 ( )

SUMMARY OF BRIDGE QUANTITIES

ITEM	CONCRETE						CONCRETE RAILING CLASS C		REINF. STEEL	EPOXY COATED REINF. STEEL	BLAST, CLEAN, PAINT BRG. ASS.	DIAPHRAGM, RESET	PILES										CAST IRON DRAIN PIPE	BRIDGE DECK OVERLAY, ADDITIONAL	EXP. JOINT SEAL SYSTEM	BRIDGE DECK PATCHING, FULL DEPTH	CONC. STR. MEMBERS		BARRIER DELIN-EATORS	SURFACE SEAL **	THREADED TIE BAR ASSEMBLIES	RETRO-FIT TIE-BAR	BRIDGE DECK OVERLAY	FIELD DRILL HOLES IN CONCRETE	BRIDGE DECK PATCHING PARTIAL DEPTH	SURFACE MILLING	BRIDGE DECK OVERLAY, REMOVE	CONCRETE BRIDGE RAILING TRANS. TYPE "TBC"	REINF. CONC. PVMT., 205 mm	BRIDGE RAIL REMOVE
	CLASS C SUPERSTR	CLASS A SUBSTR	CLASS B IN FTG.	CLASS B ABOVE FTG.	CLASS A STRUCTURES								CONC. STEEL SHEEL ENCASED		REINF. CONC. STEEL SHEEL ENCASED EPOXY COATED		STEEL H		STEEL H EPOXY COATED		STEEL H REINF. CONC. ENCASED		PILE TIP STEEL H	CORED HOLES IN ROCK					BOX BEAMS TYPE	I BEAM TYPE II										
	m^3	m^3	m^3	m^3	m^3		m^3	m^3	kg	kg	EACH	EACH	No.	m	No.	m	No.	m	No.	m	No.	m	EACH	No.	m	kg	m^3	m	m^2	m	m	EACH	m^2	EACH	EACH	m^2	EACH	m^2	m^2	m^2	EACH	m^2	m
STRUCTURE	40.8						24.0			9134.0	24.0	24.0															1.0	52.6	12.0			22.0	384.0	144.0	180.0	1410	761.0	12.0	1384.4	1384.4	4.0		171.0
BRIDGE APPROACH SLAB																																							420.0	
APPROACH SLAB EXT.										684.0																													9.2	

** ESTIMATED QUANTITY

DWG C14 OF C14

RICHARD J. ZIELINSKI REGISTERED No. 910082 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 3/10/99 DATE

DESIGNED: RJZ DRAWN: BDC

CHECKED: PLK CHECKED: RJZ

INDIANA DEPARTMENT OF TRANSPORTATION

ALLISONVILLE ROAD OVER I-465
SUMMARY OF BRIDGE QUANTITIES

HORIZONTAL SCALE	BRIDGE FILE
AS SHOWN	I465-126-5273B
VERTICAL SCALE	DESIGNATION
AS SHOWN	9881531
SURVEY BOOK	SHEETS
	15 of 15
CONTRACT	PROJECT
	STP-B008 ( )

DATE: 02-22-1999 TIME: 05:57 FILE: O:\1998\980455\70000\TRANSHT\BRIDGE\0455TB01.DWG USER: C1ABRE