PROJECT	DESIGNATION
STP/129-6(005)	0012340
CONTRACT	BRIDGE FILE
B-25410	267-06-4294B

INDEX

STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
267-06-4294B	CONTINUOUS REINFORCED CONC. GIRDER BRIDGE	11582, 2 @ 19812 & 11582 SKEW: NONE	INTERSTATE 65	

B-25410

INDIANA DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS

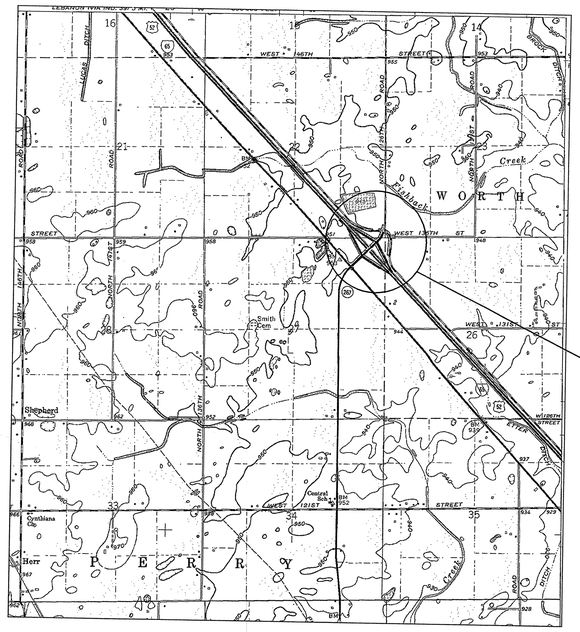
FOR SPANS OVER 6.1m

ON S.R. 267

PROJECT NO. ST-9999(107) **P.E.**
R/W
STP/129-6(005) **CONST.**

BRIDGE REHABILITATION ON STRUCTURE 267-06-4294A OVER INTERSTATE 65
IN SECTION 27, T 18 N, R 1 E, BOONE COUNTY, INDIANA

S.R. 267 AT RP 28+72



BOONE COUNTY

LOCATION PLAN

Scale: 1:25 000

STRUCTURE 267-06-4294B
4 SPANS: 11582, 2 @ 19812 & 11582
CONTINUOUS REINFORCED
CONCRETE GIRDER BRIDGE

TRAFFIC DATA	
A.A.D.T. (1999)	3095 V.P.D.
A.A.D.T. (2019)	4150 V.P.D.
D.H.V.	V.P.H.
DIRECTIONAL DISTRIBUTION	%
TRUCKS	% D.H.V.
	12 % A.A.D.T.
EQUIVALENT SINGLE AXLE LOADS	500,000
DESIGN DATA	
DESIGN SPEED	60 (40 M.P.H.) K.P.H.
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	MINOR ARTERIAL
RURAL/URBAN	RURAL
TERRAIN	LEVEL
ACCESS CONTROL	NONE

PROJECT LOCATION SHOWN BY

BRIDGE LENGTH :	0.064	KM.
ROADWAY LENGTH :	0.132	KM.
TOTAL LENGTH :	0.196	KM.
MAX. GRADE :	-4.0	%

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS (mm) AND ALL ELEVATIONS ARE IN METERS (m), EXCEPT AS NOTED.

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

REVISIONS	
DATE	SHEET NO.

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

_____ DIVISION ADMINISTRATOR

PLANS
PREPARED BY: FINK ROBERTS & PETRIE INC. (317) 872-8400 PHONE NUMBER

CERTIFIED BY: David T. Lash March 30, 2001 DATE

APPROVED FOR LETTING: Rhodes D. Kilbo 5/3/2001 CHIEF, DIVISION OF DESIGN DATE

Fred A. Newland PE 3/27/01

DAVID T. LASH REGISTERED No. 20470 STATE OF INDIANA PROFESSIONAL ENGINEER

CONTRACT	PROJECT
B-25410	STP/129-6(005)

BRIDGE FILE
267-06-4294B
DESIGNATION
0012340
SHEETS
1 of 6

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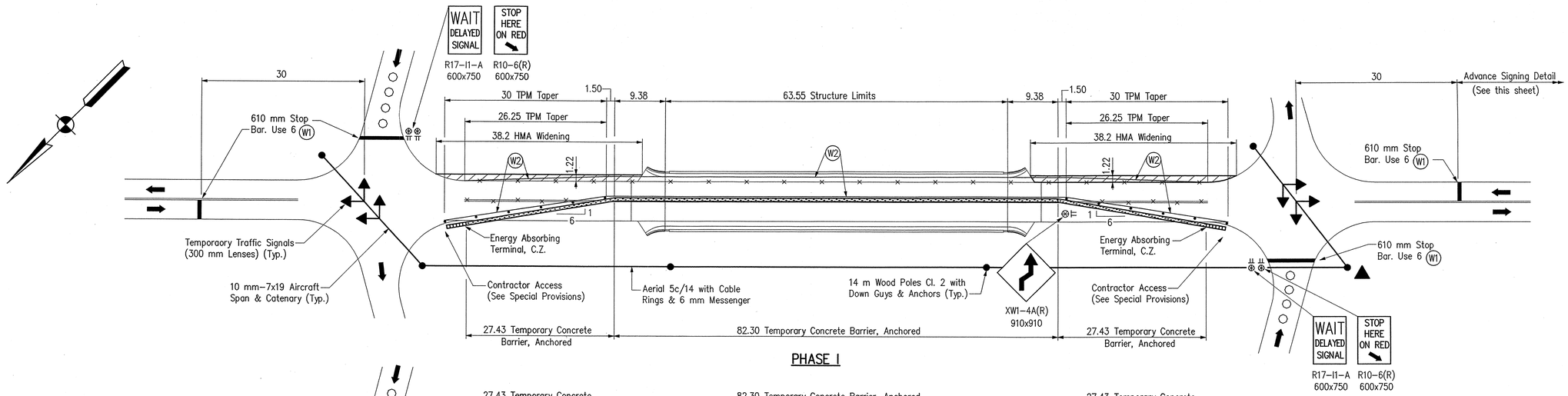
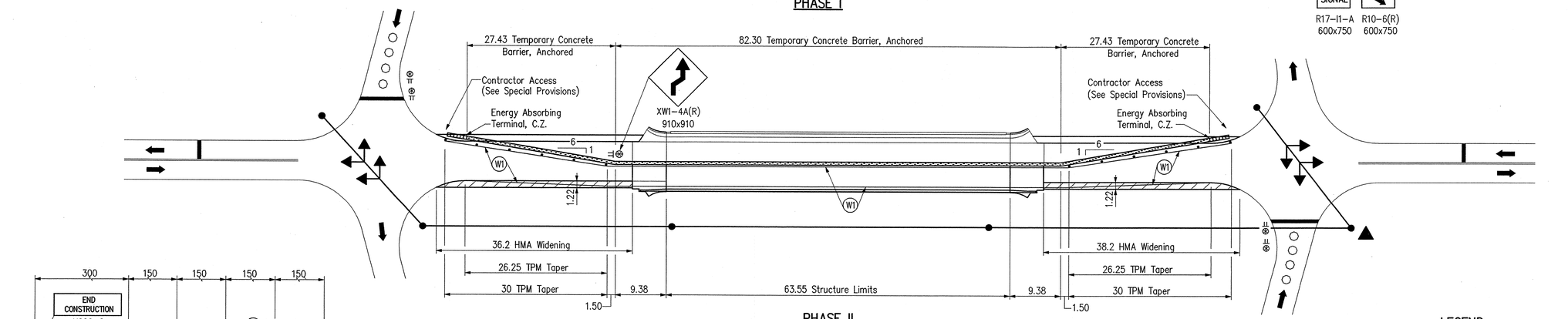
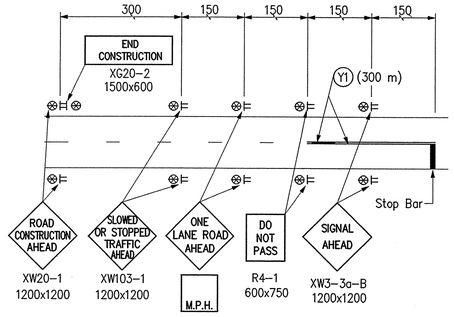


PHASE I



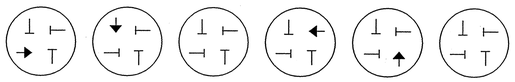
PHASE II



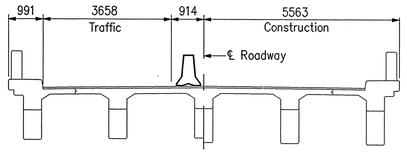
NOTE: XG20-5 To be placed as directed by the Engineer.

ADVANCE SIGNING DETAIL

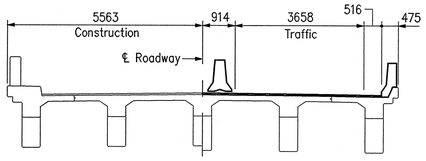
No Scale



SIGNAL PHASING DIAGRAM



PHASE I



PHASE II

TRAFFIC DETAILS

No Scale
(Dimensions in Millimeters)

NOTES:

- Lane Closure Notice Signs (XG20-5) are to placed as directed by the Engineer. (2 Req'd.)
- The existing double solid yellow centerlines at each end of the structure shall be removed between the intersection and the temporary concrete barrier before one lane of traffic is established on the structure.
- The existing solid white pavement edge lines adjacent to the HMA widening outside the limits of the HMA wedge placed in Phase I shall be removed prior to setting the temporary concrete barrier rail for repair of the southbound lane in Phase II.
- Remove the snowplowable pavement markers within the construction limits.
- Stop signs at intersections shall be covered or removed during construction.

▲ CONTROLLER AND SERVICE

The Contractor is to furnish sufficient poles at 61 m± spacing to reach the service point from controller. Location of controller may be changed if other service points are more accessible.

Poles are to be placed as far as possible from the edge of pavement within the Right-of Way. See Special Provisions.

Loop detectors shall be utilized with the temporary traffic signals. See Supplemental Specifications Section 801.

NOTE: Dimensions on this sheet (except sign dimensions) are in meters unless otherwise noted.

LEGEND

▨	HMA Widening *
▩	Temporary Concrete Barrier
-×-	Remove Existing Pavement Striping
⫤	Construction Sign, A
⊛	Low Intensity Flashing Yellow Light (Type A) (Not a Pay Item)
•	Standard Drum with Type "C" Steady Burning Light (Not a Pay Item)
(W1)	Temporary Pavement Marking, Removable, White, 100 mm
(Y1)	Temporary Pavement Marking, Removable, Yellow, 100 mm
(W2)	Temporary Pavement Marking, White, 100 mm
○	760 mm Octagonal Detector Loop

ESTIMATED QUANTITIES

HMA Widening *	101 Mg
Maintaining Traffic	1 LSum
Temporary Traffic Signal w/Loop Detectors	1 LSum
Temporary Concrete Barrier, Anchored	137 m
Construction Sign, A	22 Each
Construction Sign, B	10 Each
Energy Absorbing Terminal, C.Z.	4 Each
Temporary Pavement Marking, Removable, White, 100 mm	382 m
Temporary Pavement Marking, Removable, Yellow, 100 mm	1200 m
Temporary Pavement Marking, White, 100 mm	230 m
Line, Remove	238 m
Snowplowable Raised Pavement Marker, Remove	12 Each

*Included in the pay item, "HMA for Approaches", see Sht. 4.

2/22/02

DANIEL D. CLARK REGISTERED No. 20475 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL Daniel D. Clark Mar. 30, 2001
DESIGN ENGINEER DATE

DESIGNED: PCR DRAWN: PCR
CHECKED: DDC CHECKED: DDC

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
S.R. 267 OVER I-65

HORIZONTAL SCALE	BRIDGE FILE
1:400 Unless Noted	267-06-4294B
VERTICAL SCALE	DESIGNATION
	0012340
SURVEY BOOK	SHEETS
	2 of 6
CONTRACT	PROJECT
B-25410	STP/129-6(005)

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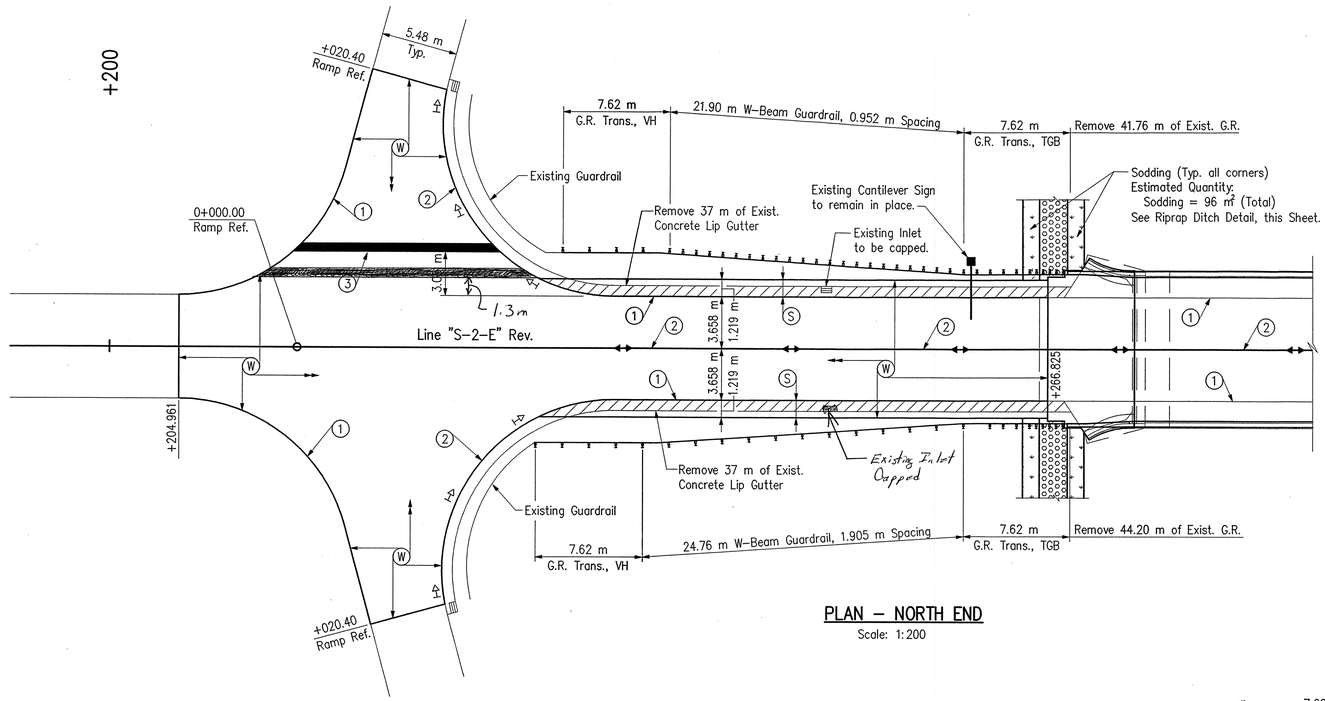
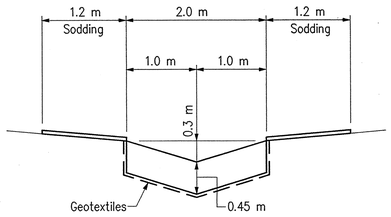


PLAN – NORTH END

Scale: 1:200



TYPICAL RIPRAP DITCH DETAIL

Scale: 1:40

HALF TYPICAL SECTION

Scale: 1:50

LEGEND

(1) Line, Paint, Solid, White, 100 mm

(2) Line, Paint, Solid, Yellow, 100 mm (Double Line @ ℄ S.R. 267)

(3) Transverse Marking, Thermoplastic, White Stop Line, 600 mm

(S) 540 kg/m² HMA Base, 25.0 mm Shoulder, see Traffic Maintenance Details, Sht. 2.

(W) Limits of HMA Wedge (See Material Notes, Sht. 4). For Surface Milling, Asphalt Limits, see Half Longitudinal Section, Sht. 4.

◄► Snowplowable Raised Pavement Marker (Two-way, Yellow)

⊢► Snowplowable Raised Pavement Marker (Two-way, Yellow/Red)

▨ Indicates Concrete Removal in Structure

PERMANENT STRIPING QUANTITIES

Line, Paint, Solid, White, 100 mm	368 m
Line, Paint, Solid, Yellow, 100 mm	362 m
Transverse Marking, Thermoplastic, White Stop Line, 600 mm	28 m
Snowplowable Raised Pavement Marker (Two-way, Yellow)	12 Each
Snowplowable Raised Pavement Marker (Two-way, Yellow/Red)	13 Each

PLAN – SOUTH END

Scale: 1:200

Ind. D. Clark P.E. 3/22/01

DANIEL D. CLARK REGISTERED No. 20475 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL Daniel D. Clark Mar. 30, 2001
DESIGN ENGINEER DATE

DESIGNED: PCR DRAWN: PCR

CHECKED: DDC CHECKED: DDC

INDIANA DEPARTMENT OF TRANSPORTATION

APPROACH DETAILS
S.R. 267 OVER I-65

HORIZONTAL SCALE	BRIDGE FILE
As Noted	267-06-4294B
VERTICAL SCALE	DESIGNATION
	0012340
SURVEY BOOK	SHEETS
	3 of 6
CONTRACT	PROJECT
B-25410	STP/129-6(005)

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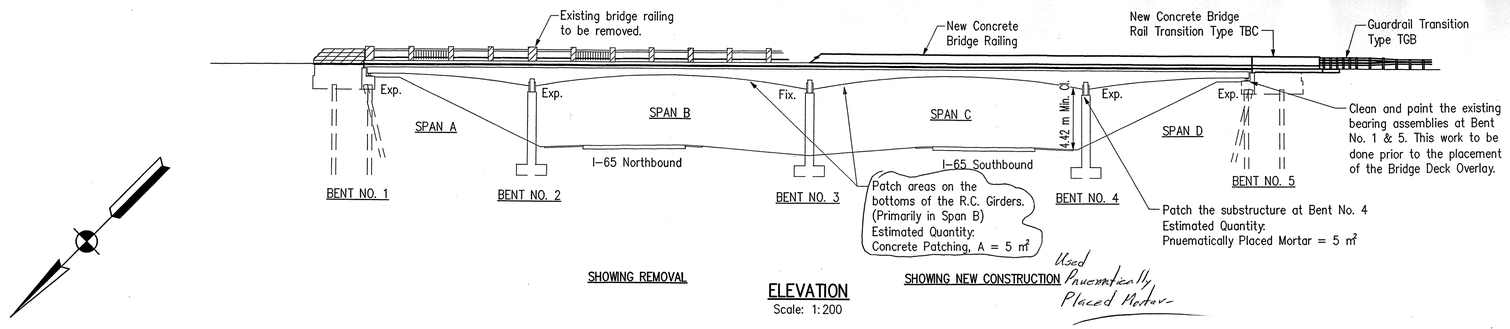
EXISTING STRUCTURE BUILT ON A 320.04 m VERTICAL CURVE



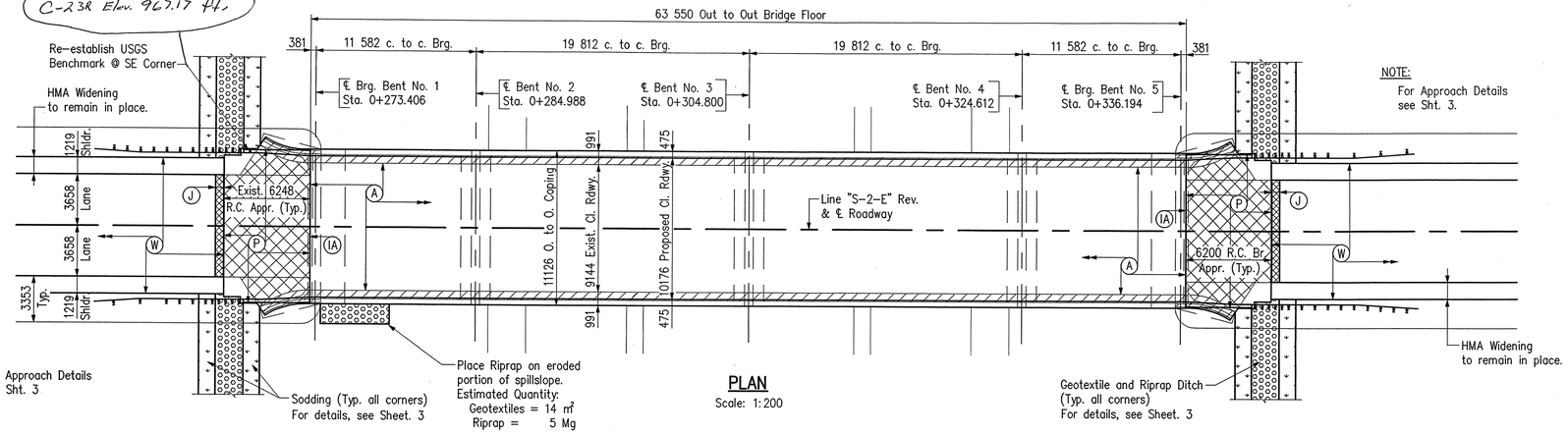
SHOWING REMOVAL

ELEVATION
Scale: 1:200

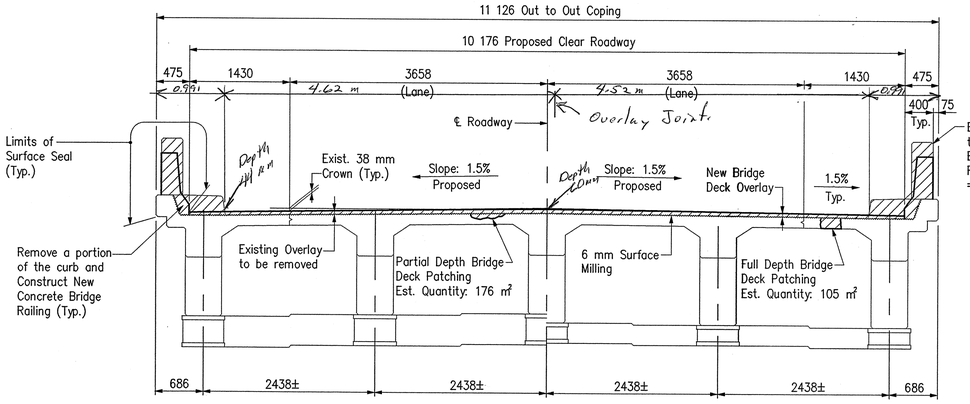
SHOWING NEW CONSTRUCTION

Used Pneumatically Placed Mortar

C-23R Elev. 967.17 Ft.



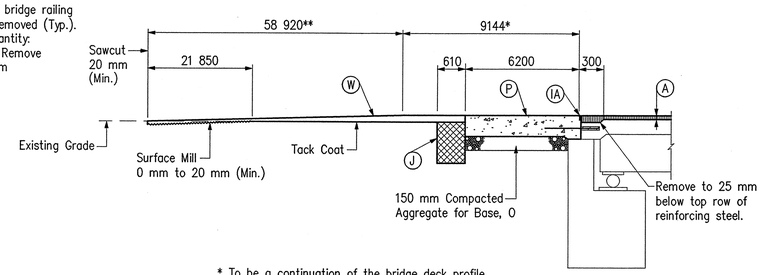
PLAN
Scale: 1:200



SHOWING SPANS A & D

SHOWING SPANS B & C

TYPICAL SECTION
Scale: 1:40



* To be a continuation of the bridge deck profile.
** Transition wedge as required to meet existing grade. (For limits of HMA Wedge, see Sht. 3)

HALF LONGITUDINAL SECTION @ ℄ ROADWAY
No Scale

DESIGN DATA

LIVE LOAD: HS 20-44 with impact and distribution in accordance with 1996 "A.A.S.H.T.O." Specifications.

DEAD LOAD: Actual plus 171 kg/m² for future wearing surface.

GENERAL NOTES

Plans for the existing structure are on file and are available upon request in the Bridge Department, Indiana Department of Transportation as:

Structure No. 267-E9-4294
267-06-4294A

MATERIAL NOTES

Bridge Deck Overlay:	Variable Depth Modified Portland Cement Concrete Top of Overlay to be 54 mm above the original floor at the roadway crown.
9 Mg	HMA Relief Joint: 1020 kg/m² HMA Base 25.0 mm, Mainline
136 Mg	HMA Wedge: 75 kg/m² HMA Surface 9.5 mm, Mainline
101 Mg	HMA Widening: 540 kg/m² HMA Base 25.0 mm, Shoulder
246 Mg	HMA for Approaches

LEGEND

- (A) Bridge Deck Overlay (See Material Notes)
- (IA) Type IA Joint (See Std. Dwg. 724-BJTS-01).
- (J) HMA Relief Joint (See Material Notes)
- (P) Reinforced Concrete Bridge Approach, 250 mm (See Sht. 5 for Details)
- (W) Limits of HMA Wedge (See Material Notes) For Surface Milling, Asphalt Limits, see Half Long. Section.
- Indicates Concrete Removal in Structure
- Indicates Pavement Removal

BRIDGE REHABILITATION
CONTINUOUS REINFORCED CONCRETE GIRDER BRIDGE

4 SPANS: 11 582, 2 @ 19 812 & 11 582 — SKEW: NONE
9144 CLEAR ROADWAY — ON S.R. 267
OVER INTERSTATE 65 — BOONE COUNTY

Richard Newhart 7/22/02

DANIEL D. CLARK REGISTERED No. 20475 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL Daniel D. Clark Mar. 30, 2001
DESIGN ENGINEER DATE

DESIGNED: PCR | DRAWN: PCR
CHECKED: DDC | CHECKED: DDC

INDIANA DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
S.R. 267 OVER I-65

HORIZONTAL SCALE	BRIDGE FILE
As Noted	267-06-4294B
VERTICAL SCALE	DESIGNATION
	0012340
SURVEY BOOK	SHEETS
	4 of 6
CONTRACT	PROJECT
B-25410	STP/129-6(005)

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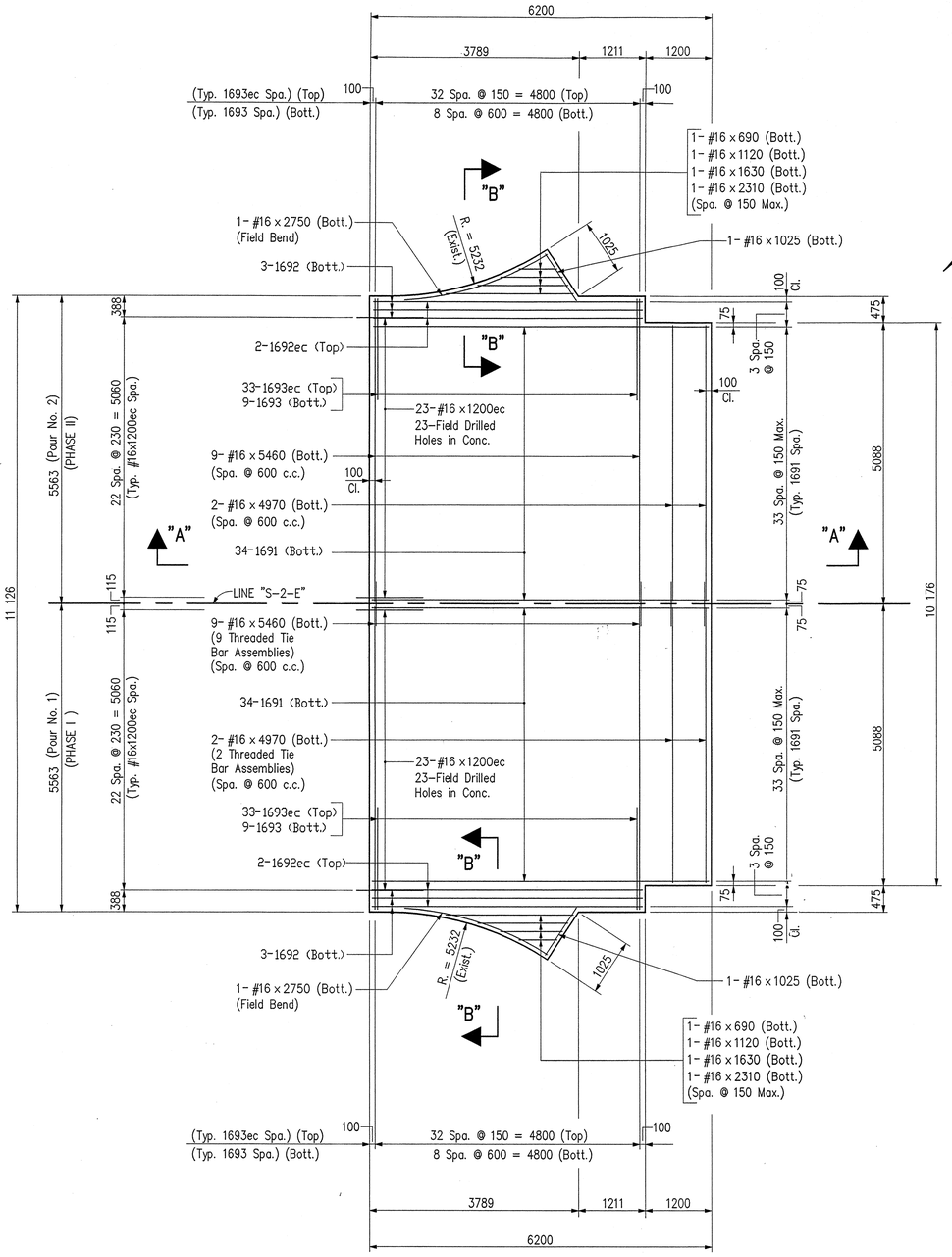
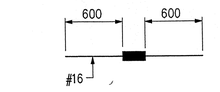
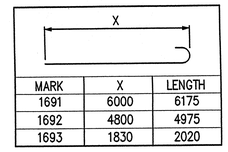


WEST APPROACH

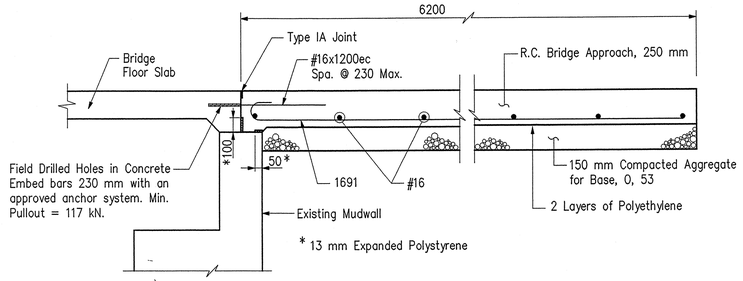
(East Approach, Same By Opposite Hand)



THREADED TIE BAR ASSEMBLY

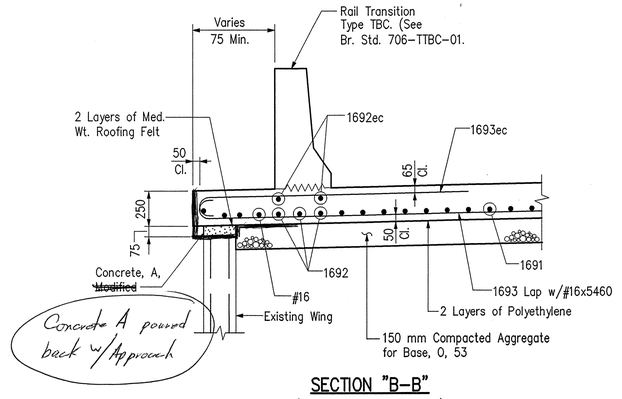


MARK	X	LENGTH
1691	6000	6175
1692	4800	4975
1693	1830	2020



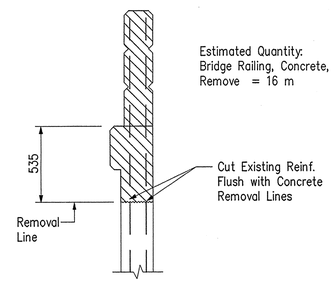
SECTION "A-A"

Scale 1:20



SECTION "B-B"

(Showing New Construction)
Scale 1:20



SECTION "B-B"

(Showing Removal Limits)
Scale 1:20

BILL OF MATERIALS

(Quantities For One Appr. Slab - Two Req'd.)

REINFORCING STEEL

SIZE & MARK	No. OF BARS	LENGTH	WEIGHT (Kg)
EPOXY COATED REINFORCING			
1693	66	2020	
1692	4	4975	
#16	46	1200	
TOTAL #16 BARS			323
TOTAL EPOXY REINF.			323
PLAIN REINFORCING			
1693	18	2020	
1692	6	4975	
1691	68	6175	
#16	2	690	
#16	2	1120	
#16	2	1630	
#16	2	2310	
#16	2	2750	
#16	2	1025	
#16	18	5460	
#16	4	4970	
TOTAL #16 BARS			967
TOTAL PLAIN REINF.			967

CONCRETE

REINFORCED CONCRETE BRIDGE APPROACH, 250 mm		
POUR NO. 1	35 m³	
POUR NO. 2	35 m³	
TOTAL R.C. BRIDGE APPROACH, 250 mm		70 m³

MISCELLANEOUS

PAVEMENT, REMOVE	58 m²
150 mm COMPACTED AGGREGATE FOR BASE, O, 53	23.7 Mg
FIELD DRILLED HOLES IN CONCRETE	46 Ea.
SURFACE SEAL	67 m²
THREADED TIE BAR ASSEMBLY	11 Ea.
~~CONCRETE, A, MODIFIED~~	~~2.2 m³~~

NOTES

- For reinforcing bar notes and bar bending details, see Bridge Std. 703-BRST-01.
- ec indicates Epoxy Coated Reinforcing Steel
- Minimum Lap for #16 Bar = 580 mm.
- For Additional R.C. Bridge Approach Details, see Bridge Standard 610-RCBA-01.

Fred A. Stewart 2/22/02

DANIEL D. CLARK REGISTERED No. 20475 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL Daniel D. Clark Mar. 30, 2001
DESIGN ENGINEER DATE

DESIGNED: CPM DRAWN: CPM
CHECKED: DDC CHECKED: DDC

INDIANA
DEPARTMENT OF TRANSPORTATION

R.C. BRIDGE APPROACH DETAILS
S.R. 267 OVER I-65

HORIZONTAL SCALE	BRIDGE FILE
1:50, UNLESS NOTED	267-06-4294B
VERTICAL SCALE	DESIGNATION
1:50, UNLESS NOTED	0012340
SURVEY BOOK	SHEETS
	5 of 6
CONTRACT	PROJECT
B-25410	STP/129-6(005)

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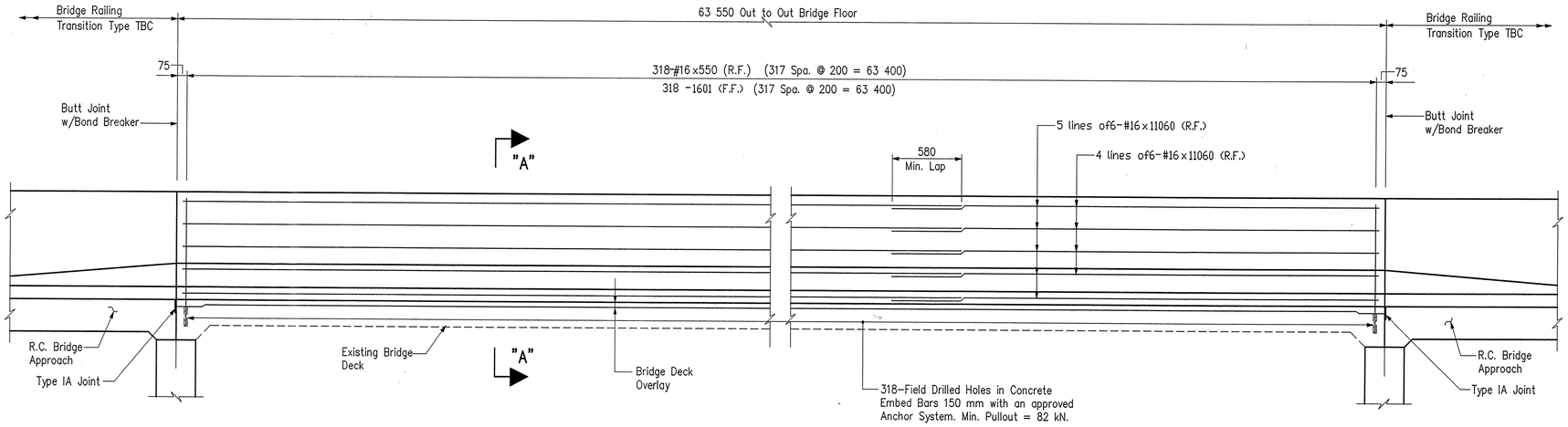
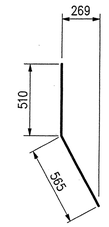


RAILING ELEVATION

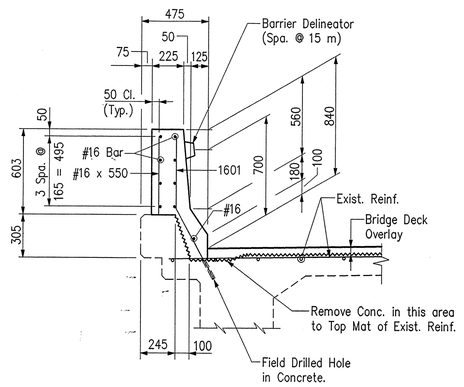
BILL OF MATERIALS

REINFORCING STEEL			
SIZE & MARK	No. OF BARS	LENGTH	WEIGHT (Kg)
EPOXY COATED REINFORCING			
1601	318	1075	
#16	318	550	
#16	54	11060	
TOTAL #16 BARS			1729
* Bridge Railing Transition, TBC, Reinf.			402
TOTAL EPOXY REINF.			2131
CONCRETE			
Total Conc. Class "C" in Railing			13.4 m³
MISCELLANEOUS			
Field Drilled Holes in Concrete			318 Ea.
Barrier Delineators			6 Ea.
Surface Seal			130 m²
Conc. Bridge Railing Transition, TBC			2 Ea.

* Quantities for One Rail Only, 2 Required



1601 x 1075



SECTION "A-A"

NOTES:

- For Reinforcing Bar Notes and Bar Bending Details, see Bridge Standard 703-BRST-01.
- Concrete in Bridge Rail to be Class "C".
- Reinforcing Steel in Conc. Barrier Rail to be Epoxy Coated.
- Min. Lap #16 Bar = 580
- For Guardrail Connection Details, see Std. Dwg. 706-CBRT-02.

DANIEL D. CLARK REGISTERED No. 20475 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL Daniel D. Clark Mar. 30, 2001
DESIGN ENGINEER DATE

DESIGNED: CPM DRAWN: CPM
CHECKED: DDC CHECKED: PCR

INDIANA
DEPARTMENT OF TRANSPORTATION

CONCRETE BRIDGE RAILING DETAILS
S.R. 267 OVER I-65

HORIZONTAL SCALE	BRIDGE FILE
1:20	267-06-4294B
VERTICAL SCALE	DESIGNATION
1:20	0012340
SURVEY BOOK	SHEETS
	6 of 6
CONTRACT	PROJECT
B-25410	STP/129-6(005)

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