

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	101B-1	WABASH	34	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

**FAP ROUTE 332 (IL 1)
SECTION 101B-1
PROJECT: BHF-0005 (544)
WABASH COUNTY
C-97-050-03**

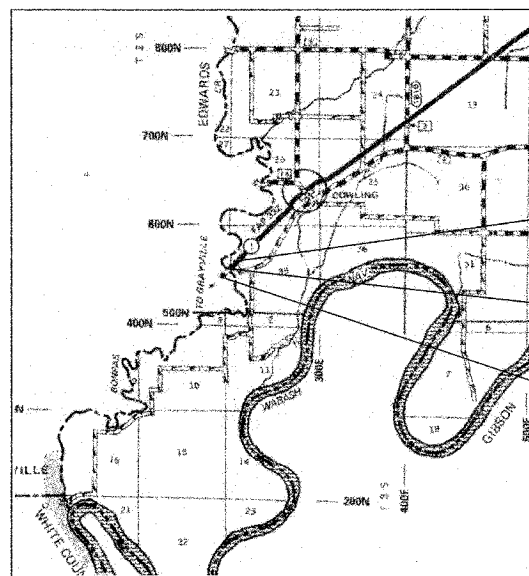
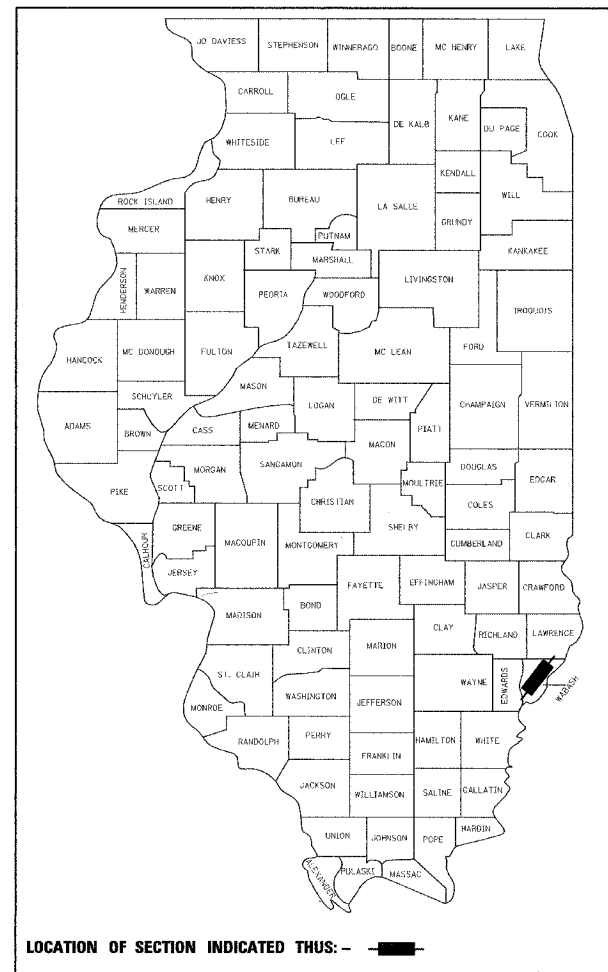
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- 1 COVER
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- 29-34 CROSS SECTIONS

INDEX OF IDOT HIGHWAY STANDARDS

000001-04	635011-01
001001-01	701201-02
001006	701306-01
280001-03	701321-08
515001-02	701326-02
630001-07	702001-06
630201-04	704001-03
630301-04	780001-01
631032-03	781001-02
635006-02	

D-97-037-03



LOCATION MAP

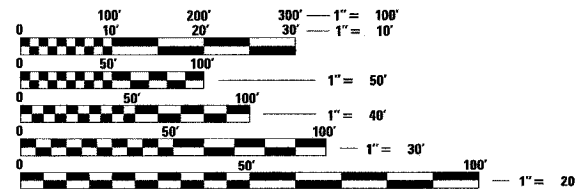
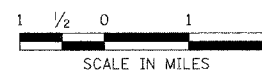
WABASH COUNTY
IL 1

GROSS LENGTH OF PROJECT = 584.29 FEET (0.11 MILES)
NET LENGTH OF PROJECT = 584.29 FEET (0.11 MILES)

END PROJECT
STA 152+06.75

STRUCTURE # 093-0005
STA 148+47.08
to STA 150+13.09

BEGIN PROJECT
STA 146+22.46



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123



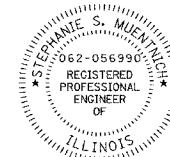
Mary Coombe Bloxdorf 6/25/07
MARY COOMBE BLOXDORF, P.E.
License Expires 11/30/2007

THIS SEAL IS VALID FOR THE FOLLOWING SHEETS IN THESE PLANS WHICH WERE PREPARED UNDER MY DIRECT SUPERVISION:

SHEETS 9 TO 34

PLANS PREPARED BY
HORNER & SHIFRIN, INC.
ENGINEERS

640 PIERCE BOULEVARD SUITE 200 • O'FALLON, ILLINOIS 62269
5200 OAKLAND AVENUE • ST. LOUIS, MISSOURI 63110
www.hornershifrin.com



Stephanie S. Muentnich 6/21/07
STEPHANIE S. MUENTNICH, P.E.
License Expires 11/30/2007

THIS SEAL IS VALID FOR THE FOLLOWING SHEETS IN THESE PLANS WHICH WERE PREPARED UNDER MY DIRECT SUPERVISION:

SHEETS 1 TO 8

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED June 26 2007
Christina M. Reed
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

June 29 2007
Eric E. Harrel
ENGINEER OF DESIGN AND ENVIRONMENT

June 29 2007
Milton R. Sees P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	101B-1	WABASH	34	2
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

1. UTILITIES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF STANDARD SPECIFICATION. THE J.U.L.I.E. NUMBER IS 1-800-892-0123. A MINIMUM OF FORTY-EIGHT HOURS ADVANCE NOTICE IS REQUIRED.

THE LOCATION OF ALL UTILITIES ARE BASED ON INFORMATION PROVIDED BY OTHERS AND ARE INTENDED TO BE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS CONSTRUCTION ACTIVITIES WITH THE VARIOUS UTILITY OWNERS. ALL POTENTIAL CONFLICTS SHALL BE INVESTIGATED AND REMEDIAL ACTION TAKEN PRIOR TO INTERRUPTION OF THE CONTRACTOR'S PROGRESS.

2. EXISTING FACILITIES - VARIATIONS

IN ADDITION TO FIELD SURVEYS AND AERIAL SURVEYS, PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION DUE TO CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

3. STATION /OFFSET REFERENCES & HORIZONTAL CONTROL

ALL STATIONS AND OFFSET REFERENCES ARE TO THE ROADWAY CENTERLINE UNLESS OTHERWISE NOTED. THE STATE PLANE COORDINATE SYSTEM HAS BEEN USED FOR THE HORIZONTAL CONTROL.

4. VERTICAL CONTROL

ALL ELEVATIONS SHOWN ON THE PLANS ARE BASED ON U.S.G.S. MEAN SEA LEVEL DATUM.

5. HIGHWAY STANDARDS

ANY REFERENCE WITHIN THESE PLANS TO A STANDARD SHALL BE INTERPRETED TO MEAN THE EDITION INDICATED BY THE SUB-NUMBER LISTED ON THE PREVIOUS SHEET OR THE COPY INCLUDED IN THESE PLANS.

6. APPLICATION RATES

FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES.

HOT-MIX ASPHALT BASE COURSE	0.056	TON / SQ YD / IN
HOT-MIX ASPHALT SURFACE COURSE	0.056	TON / SQ YD / IN
AGGREGATE (SURFACE, BASE, & BACKFILL)	2.05	TON / CU YD
HOT-MIX ASPHALT MATERIALS:		
PRIME COAT FOR HOT-MIX ASPHALT:		
- ON PAVEMENT	0.0002	TON / SQ YD
- ON COLD MILLED SURFACE	0.0004	TON / SQ YD
- FOG COAT ON NEW BINDER	0.00012	TON / SQ YD
AGGREGATE (PRIME COAT):		
- ON EXISTING PAVEMENT	0.002	TON / SQ YD
- ON COLD MILLED SURFACE	0.002	TON / SQ YD
- FOG COAT ON NEW BINDER	0.001	TON / SQ YD

7. BITUMINOUS MATERIALS (PRIME COAT)

FOR THE PAY ITEM BITUMINOUS MATERIALS (PRIME COAT), THE CONTRACTOR SHALL USE EITHER RC-70 OR AN EMULSIFIED POLYMER PRIME SS-1HP.

8. AGGREGATE SURFACE COURSE, TYPE B

AGGREGATE SURFACE COURSE, TYPE B SHALL BE CRUSHED STONE OR CRUSHED CONCRETE

9. AGGREGATE SHOULDERS, TYPE B

AGGREGATE SHOULDERS, TYPE B SHALL BE CRUSHED STONE, CRUSHED CONCRETE OR RAP.

10. ACCESS DURING CONSTRUCTION

ACCESS TO ENTRANCES, AND SIDEROADS SHALL BE MAINTAINED AT ALL TIMES.

11. BARRICADE STABILIZATION

FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

12. SAW CUTS

WHERE PROPOSED CONSTRUCTION ABUTS EXISTING APPURTENANCES, A SAW CUT SHALL BE MADE TO ACHIEVE A NEAT BUTT JOINT. SAWED JOINTS FOR REMOVALS AND BUTT JOINTS SHALL BE CONSIDERED INCLUDED IN ITEM BEING REMOVED OR CONSTRUCTED.

13. THICKNESS OF RESURFACING

THE THICKNESS OF HOT-MIX ASPHALT MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS, DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN EXISTING SURFACE OR BASED ON WHICH THE BITUMINOUS MIXTURE IS PLACED.

14. 4" PAINT PAVEMENT MARKING

THE PROPOSED 4" SOLID YELLOW AND 4" SOLID WHITE PAINT PAVEMENT MARKING SHOWN IN THE SCHEDULE OF QUANTITIES ARE PROVIDED FOR THE CLARIFICATION OF THE CONTRACTOR. ALL 4" PAINT PAVEMENT MARKING SHOWN IN THE PLANS IS CONSIDERED AS PART OF THE PAY ITEM FOR 7800110 PAINT PAVEMENT MARKING - LINE 4"

MIXTURE DESIGN		
MIXTURE USE	SURFACE COURSE	BINDER COURSE
AC/PG:	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ NDES=70	4.0% @ NDES=70
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5 OR 12.5	IL 19.0
VOLUMETRIC REQUIREMENTS		
FRICITION AGGREGATE:	MIX "C"	N/A
FIELD DENSITY		

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL NOTES & MIXTURE DESIGNS
 SCALE: VERT. NONE
 HORIZ. NONE
 DATE 06/20/07
 DRAWN BY KMO
 CHECKED BY SSM

Plot Date: 6/21/2007
 Plot Time: 8:42:07 AM
 Plot By: Koldenorth
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	101B-1	WABASH	34	3
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CODED PAYITEM	DESCRIPTION	UNIT	TOTAL QUANTITY	SN 093-0005 (IL 1)	
				WABASH COUNTY 80% FEDERAL / 20% STATE STP RURAL STATE FUNDS CONSTRUCTION TYPE CODE	
				I000-2A	X080-2A
20200100	EARTH EXCAVATION	CU YD	99	99	
20400800	FURNISHED EXCAVATION	CU YD	96	96	
25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.25	0.25	
28000300	TEMPORARY DITCH CHECKS	EACH	3	3	
28100109	STONE RIPRAP, CLASS A5	SQ YD	603		603
28000400	PERIMETER EROSION BARRIER	FOOT	1380	1380	
28200200	FILTER FABRIC	SQ YD	603		603
35650500	BASE COURSE WIDENING 10"	SQ YD	150	150	
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	165	165	
40600300	AGGREGATE (PRIME COAT)	TON	1	1	
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	8	8	
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	28	28	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	179	179	
42000500	PORTLAND CEMENT CONCRETE PAVEMENT 10"	SQ YD	24		24
44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	89		89
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	257	257	
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1		1
50102400	CONCRETE REMOVAL	CU YD	9	9	
50300260	BRIDGE DECK GROOVING	SQ YD	611		611
50300300	PROTECTIVE COAT	SQ YD	611		611
50400105	PRECAST CONCRETE BRIDGE SLAB	SQ FT	299		299
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	4157		4157
50800205	REINFORCEMENT BARS (EPOXY COATED)	POUND	7590		7590
50800515	BAR SPLICERS	EACH	168		168
50901050	STEEL RAILING, TYPE SM	FOOT	332		332
51500100	NAME PLATES	EACH	1		1
59000200	EPOXY CRACK INJECTION	FOOT	45		45
* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	400	400	
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4	
* 63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	471	471	

* SPECIALTY ITEMS

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REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p align="center">SUMMARY OF QUANTITIES</p> <p align="center">SHEET 1 OF 2</p> <p>SCALE: VERT. N/A HORIZ. N/A DATE 06/20/07</p> <p>DRAWN BY KMO CHECKED BY SSM</p>

Rev.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	101B-1	WABASH	34	4
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CODED PAYITEM	DESCRIPTION	UNIT	TOTAL QUANTITY	SN 093-0005 (IL 1)	
				WABASH COUNTY	
				80% FEDERAL / 20% STATE STP RURAL STATE FUNDS CONSTRUCTION TYPE CODE	
				I000-2A	X080-2A
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	3	3	
67100100	MOBILIZATION	L SUM	1	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	5	5	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	778	778	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	575	575	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	550	550	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1934	1934	
* 78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	242	242	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	12	12	
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	18	18	
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	694	694	
X0324744	REMOVAL OF EXISTING PRECAST CONCRETE UNIT	SQ FT	299		299
52000110	PREFORMED JOINT STRIP SEAL	FOOT	33		33
X0325303	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5")	SQ FT	7		7
X5030305	CONCRETE WEARING SURFACE 5"	SQ YD	013		013
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	22		22

*SPECIALTY ITEMS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SHEET 2 OF 2

SCALE: VERT. N/A
HORIZ. N/A
DATE 06/20/07

DRAWN BY KMO
CHECKED BY SSM

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Rev.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	101B-1	WABASH	34	5
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

PAVING											
LOCATION	SIDE	WIDTH	BASE COURSE WIDENING 10"	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	HOT-MIX ASPHALT BINDER COURSE IL-19, N70	HOT-MIX ASPHALT SURFACE COURSE MIX "C", N70	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	HOT-MIX ASPHALT SHOULDERS 6"	PORTLAND CEMENT CONC PAVEMENT 10"
STATION TO STATION		FEET	SQ YD	GALLON	TON	TON	TON	SQ YD	SQ YD	SQ YD	SQ YD
SN 093-0005 (IL 1) BONPAS CREEK											
STA 146+22.46 (BK) TO STA 148+46.92 (AH)	LT/RT		75							119	24
STA 147+83.00 (AH) TO STA 148+46.92 (AH)	LT/RT			92	0.4		16				
STA 147+83.00 TO STA 148+13.00	LT/RT							87			
STA 148+13.00 TO STA 148+46.92	LT/RT	26				5					
STA 148+46.92 TO STA 148+66.84	LT/RT	10							44.5		
STA 149+93.16 TO STA 150+13.08	LT/RT	10							44.5		
STA 150+13.08 TO STA 150+63.08	LT/RT						12				
STA 150+13.08 TO STA 152+06.75	LT/RT		75							138	
STA 150+13.08 TO STA 150+31.08	LT/RT	26				3					
STA 150+31.08 TO STA 150+63.08	LT/RT	26		73	0.3			92			
TOTAL			150	165	1	8	28	179	89	257	24

PAVEMENT MARKING						
LOCATION	SIDE	PAINT PAVEMENT MARKING		RAISED REFLECTIVE PAVEMENT MARKER	PAVEMENT MARKING REMOVAL	WORK ZONE PAVEMENT MARKING REMOVAL
		LINE 4" SOLID WHITE FOOT	LINE 6" SKIP DASH YELLOW FOOT			
STATION TO STATION				EACH	SQ FT	SQ FT
SN 093-0005 (IL 1) BONPAS CREEK						
STA 144+19.71 TO STA 154+17.53	LT/RT			12		52
STA 144+32.21 TO STA 154+93.00	LT/RT					52
STA 144+19.71 TO STA 147+24.38 (BK)	LT/RT	609			203	111
STA 144+19.71 TO STA 147+24.38 (BK)	CL		76		16	10
STA 144+32.21 TO STA 147+24.38 (BK)	LT/RT					97
STA 147+55.17 (AH) TO STA 154+17.53	CL		166		33	
STA 147+55.17 (AH) TO STA 147+83.00	CL					1
STA 147+55.17 (AH) TO STA 147+83.00	LT/RT					1
STA 147+55.17 (AH) TO STA 154+17.53	LT/RT	1325			442	
STA 147+24.38 (BK) TO STA 144+14.71	CL					
STA 147+55.17 (AH) TO STA 154+17.53	LT/RT					221
STA 147+55.71 (AH) TO STA 153+93.00	LT/RT					213
STA 150+63.08 TO STA 154+17.53	CL					12
STA 150+63.08 TO STA 154+17.53	LT/RT					8
TOTAL		1934	242	12	694	778

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
SHEET 1 OF 2

SCALE: VERT. NONE
HORIZ. NONE
DATE 06/20/07

DRAWN BY KMO
CHECKED BY SSM

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	101B-1	WABASH	34	6
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

GUARDRAIL

LOCATION	SIDE	GUARDRAIL REMOVAL	STEEL PLATE BEAM GUARDRAIL, TYPE A	TRAFFIC BARRIER TERMINAL, TYPE 6A	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	GUARDRAIL MARKERS, TYPE A	TERMINAL MARKER - DIRECT APPLIED
STATION TO STATION		FOOT	FOOT	EACH	EACH	EACH	EACH
SN 093-0005 (IL 1) BONPAS CREEK							
STA 146+22.46 TO STA 148+47.00	LT	114	100	1	1	4	1
STA 146+34.96 TO STA 148+47.00	RT	112	100	1	1	4	1
STA 150+13.00 TO STA 152+94.25	LT	119	100	1	1	5	1
STA 150+13.00 TO STA 152+06.75	RT	126	100	1	1	5	1
SUBTOTAL		471	400	4	4	18	4

REMOVAL ITEMS

LOCATION	CONCRETE REMOVAL
STATION TO STATION	CU YD
SN 093-0005 (IL 1) BONPAS CREEK	
STA 148+46.92 TO STA 148+66.84	4.5
STA 149+93.16 TO STA 150+13.08	4.5
TOTAL	
	9

EROSION CONTROL

LOCATION	SIDE	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER
STATION TO STATION		EACH	FOOT
SN 093-0005 (IL 1) BONPAS CREEK			
STA 146+00.00 TO STA 153+13.54	LT		688
STA 145+15.97 TO STA 152+30.00	RT		692
STA 148+25.00	LT	1	
STA 148+25.00	RT	1	
STA 150+25.00	LT	1	
TOTAL		3	1380

EARTHWORK

LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	SHRINKAGE FACTOR	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
STATION TO STATION	CU YD	CU YD		CU YD	CU YD
SN 093-0005 (IL 1) BONPAS CREEK					
STA 145+20.00 TO STA 153+00.00	99	74	25	209	-135
SUBTOTAL		99	74	209	-135

REVISIONS	
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ILLINOIS DEPARTMENT OF TRANSPORTATION

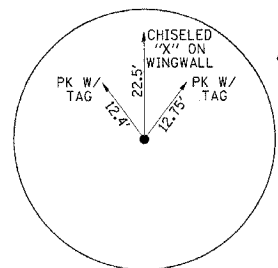
SCHEDULE OF QUANTITIES
SHEET 2 OF 2

SCALE: VERT. NONE
HORIZ. NONE
DATE 06/20/07

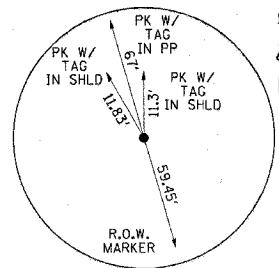
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CHECKED BY SSM

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	101B-1	WABASH	34	7
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

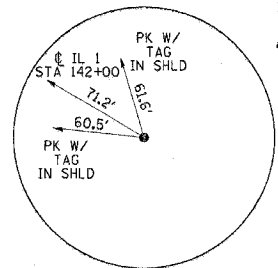
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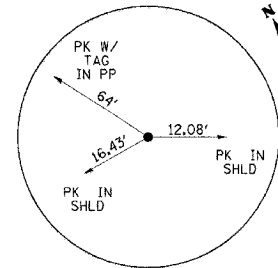
FAP 332 (IL 1)
ALIGNMENT TIE
P.O.T. STA 130+31.19



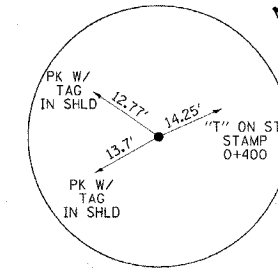
FAP 332 (IL 1)
ALIGNMENT TIE
P.C. STA 136+58.55



FAP 332 (IL 1)
ALIGNMENT TIE
P.I. (BOLT FOUND)



FAP 332 (IL 1)
ALIGNMENT TIE
P.T. STA 147+24.37



FAP 332 (IL 1)
ALIGNMENT TIE
P.O.T. STA 162+32.80

BENCHMARKS:

FAP 332 (IL 1)

BM 516 - RR SPIKE IN POWER POLE EAST SIDE. STA ± 153+59.
ELEVATION - 395.978

BM 517 - CHISELED SQUARE ON SW WINGWALL OF BRIDGE
SN 093-0005. ELEVATION - 390.496

BM 518 - RR SPIKE IN 30" DIAMETER TREE ON SOUTH SIDE OF
IL 1. STA ± 139+98, 43' RT. ELEVATION - 403.720

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

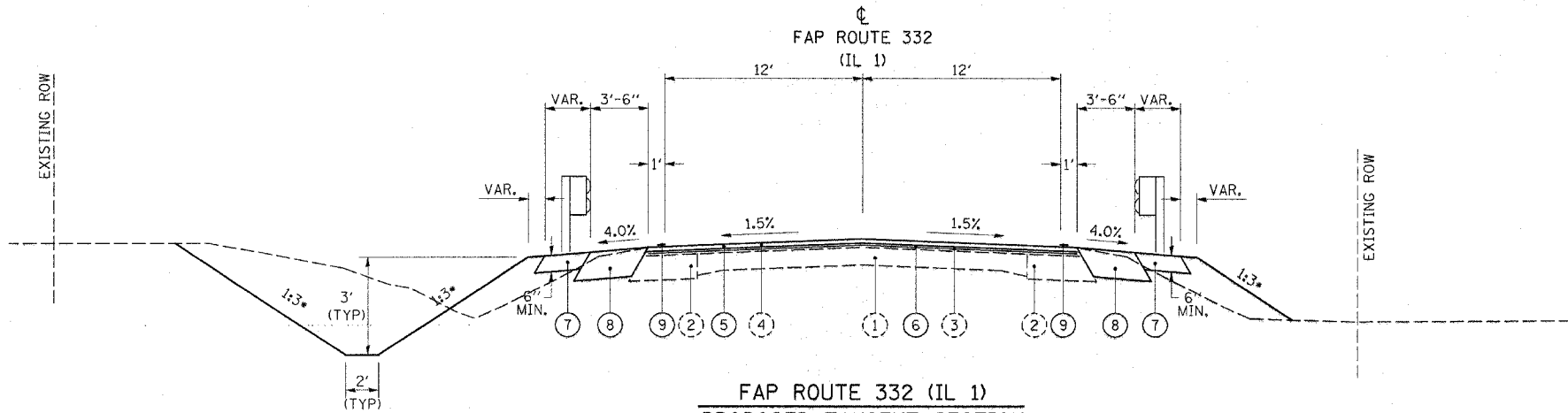
ALIGNMENT TIES & BENCHMARKS

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HORIZ. N/A
DATE 06/20/07

DRAWN BY KMO
CHECKED BY SSM

Plot Date: 6/20/07
 Plotted By: KMO
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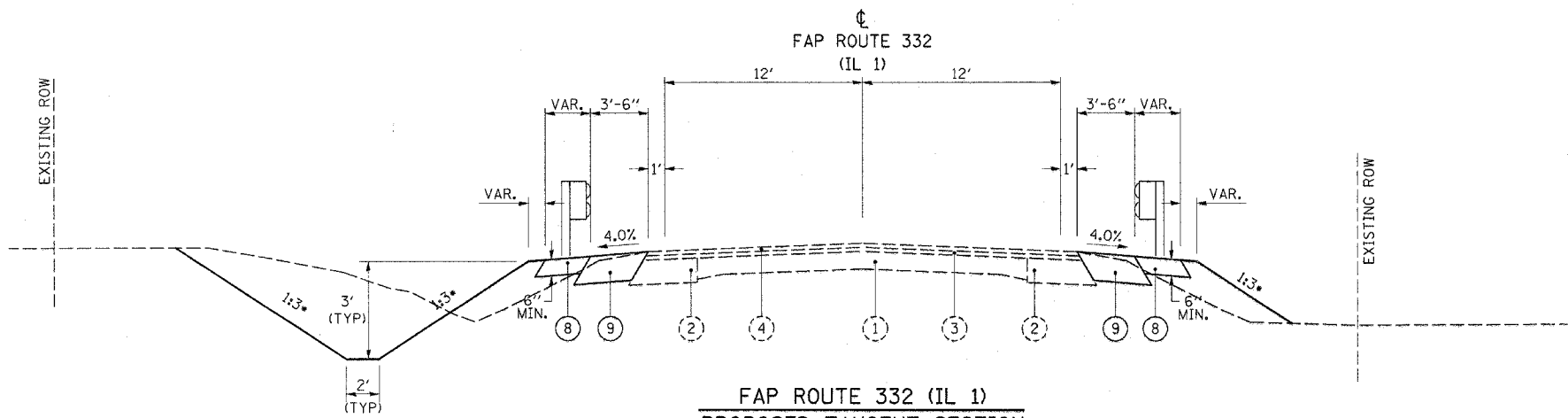
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	101B-1	WABASH	34	8
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



FAP ROUTE 332 (IL 1)
PROPOSED TANGENT SECTION

- TO APPLY -
STA 147+83.00 TO STA 150+63.08
BRIDGE OMISSION
STA 148+47.08 TO STA 150+13.09

* OR AS SHOWN ON CROSS SECTIONS



FAP ROUTE 332 (IL 1)
PROPOSED TANGENT SECTION

- TO APPLY -
STA 146+22.46 TO STA 147+83.00
STA 150+63.08 TO STA 152+06.75

MATERIALS LEGEND

- ① EXISTING PCC PAVEMENT
- ② EXISTING WIDENING
- ③ EXISTING HOT-MIX ASPHALT BINDER COURSE, 1 1/2"
- ④ EXISTING HOT-MIX ASPHALT SURFACE COURSE, CLASS I, 1 1/2"
- ⑤ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIXTURE "C", N70, (1 1/2")
- ⑥ PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, (VARIABLE DEPTH)
- ⑦ PROPOSED HOT-MIX ASPHALT SHOULDERS, 6"
- ⑧ PROPOSED BASE COURSE WIDENING, 10"
- ⑨ PROPOSED PAVEMENT MARKING

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

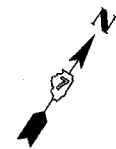
IL 1

SCALE: VERT. N/A
HORIZ. N/A
DATE 06/20/07

DRAWN BY KMO
CHECKED BY SSM

Plot Date: 6/23/2007
Plot Time: 9:21:34 AM
Plot by: jg
Pen Table: idp.tbl
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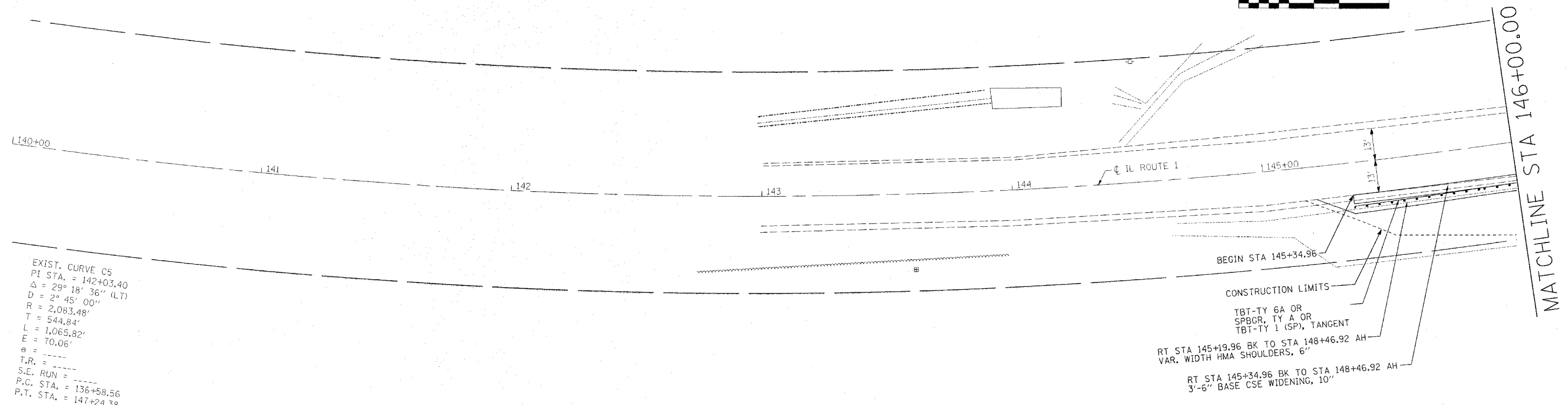
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332	101B-1	WABASH	34	9
STA. 143+00.00		TO STA. 146+00.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



PLAN	DATE
BY	
REVIEWED	
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	
PROF. FILED	
NO.	

PROFILE	DATE
BY	
REVIEWED	
GRADES CHECKED	
P.L. NOTED	
STRUCTURE NOTATIONS OK'D	

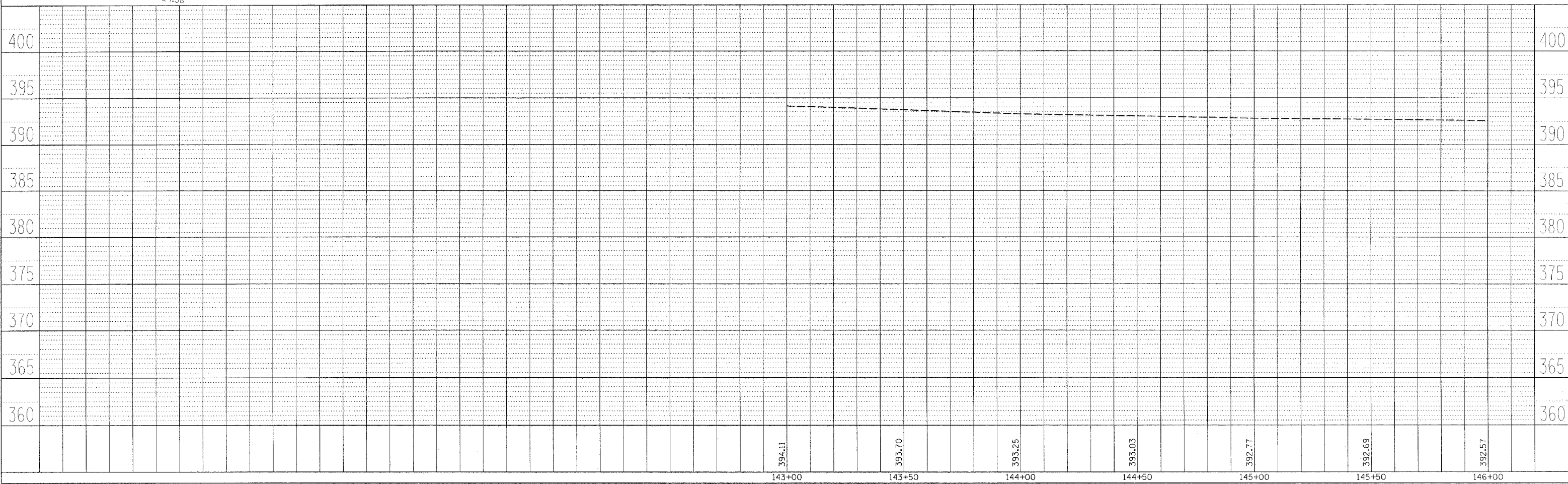
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 Plot Scale: 1/4" = 10' / 1" = 40'



EXIST. CURVE C5
 PI STA. = 142+03.40
 $\Delta = 29^\circ 18' 36''$ (L.T)
 $D = 2^\circ 45' 00''$
 $R = 2,083.48'$
 $T = 544.84'$
 $L = 1,065.82'$
 $E = 70.06'$
 $e =$
 $T.R. =$
 S.E. RUN =
 P.C. STA. = 136+58.56
 P.T. STA. = 147+24.38

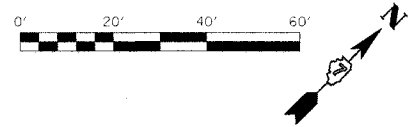
BEGIN STA 145+34.96
 CONSTRUCTION LIMITS
 TBT-TY 6A OR
 SPBCR, TY A OR
 TBT-TY 1 (SP), TANGENT
 RT STA 145+19.96 BK TO STA 148+46.92 AH
 VAR. WIDTH HMA SHOULDERS, 6"
 RT STA 145+34.96 BK TO STA 148+46.92 AH
 3'-6" BASE CSE WIDENING, 10"

MATCHLINE STA 146+00.00



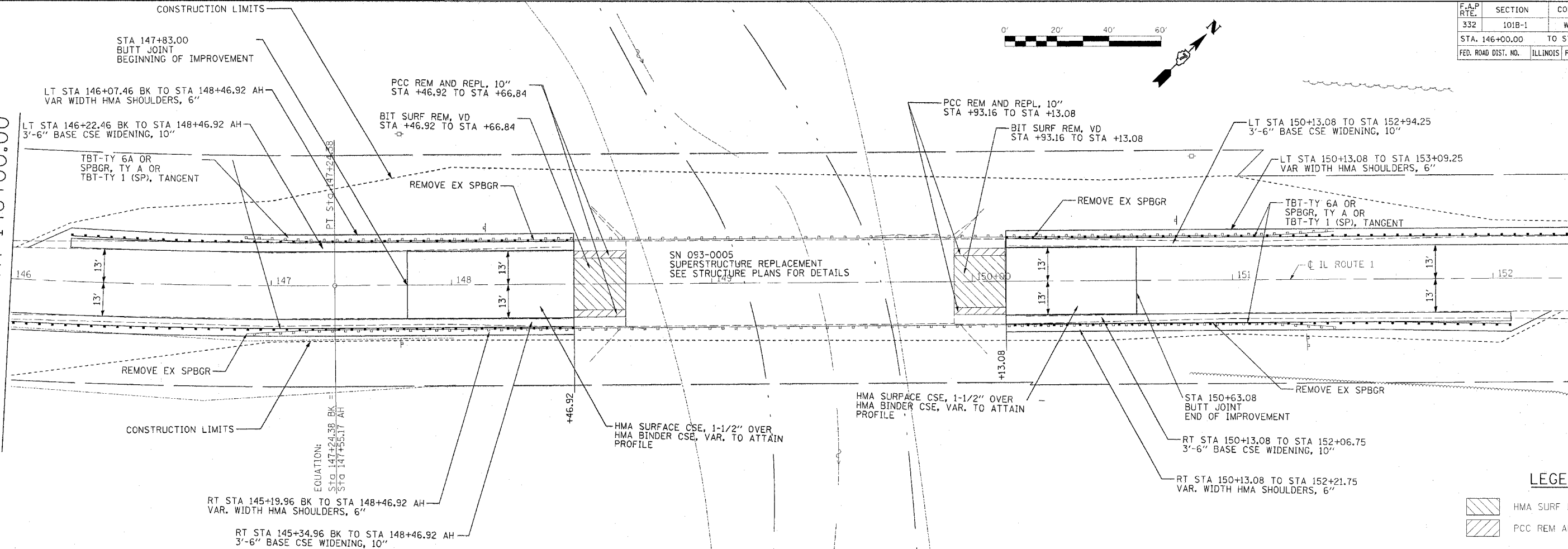
394.11	393.70	393.25	393.03	392.77	392.69	392.57
143+00	143+50	144+00	144+50	145+00	145+50	146+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	101B-1	WABASH	34	10
STA. 146+00.00		TO STA. 152+30.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



MATCHLINE STA 146+00.00

MATCHLINE STA 152+30.00



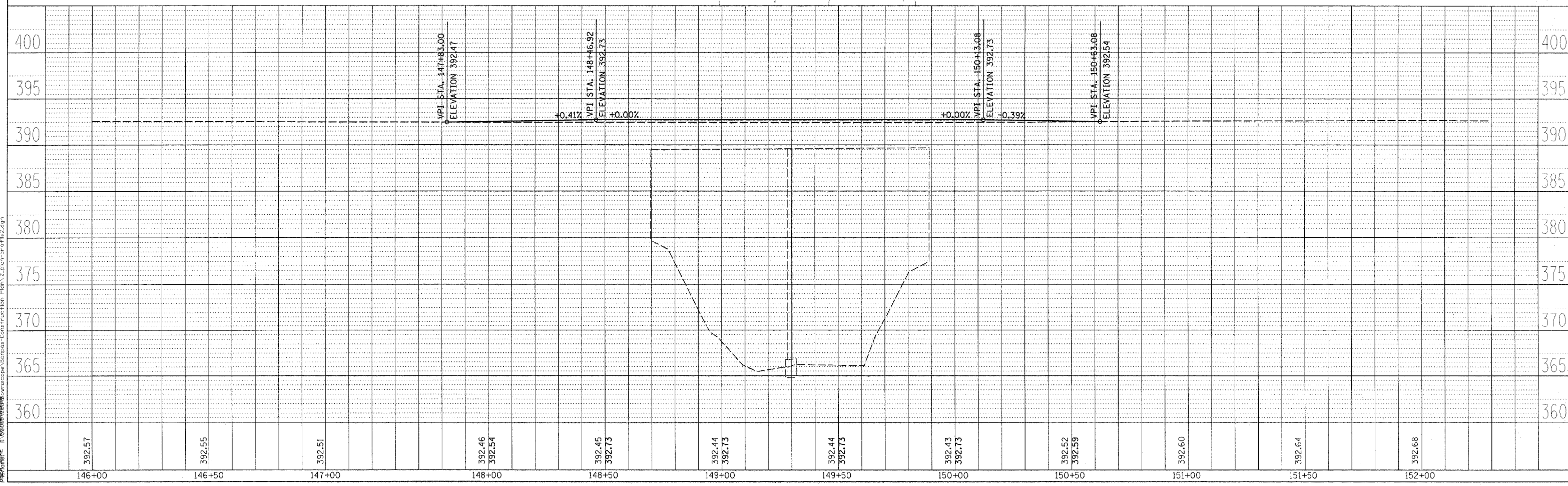
LEGEND

- HMA SURF REM, VD
- PCC REM AND REPL, 10"

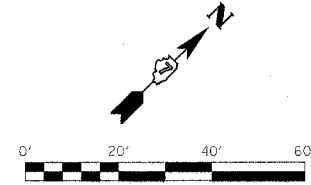
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NOTE BOOK	ALIGNED	CHECKED
NO.	DATE	FILE NAME

PROFILE	REVIEWED	DATE
NOTE BOOK	GRADES CHECKED	
NO.	DATE	FILE NAME

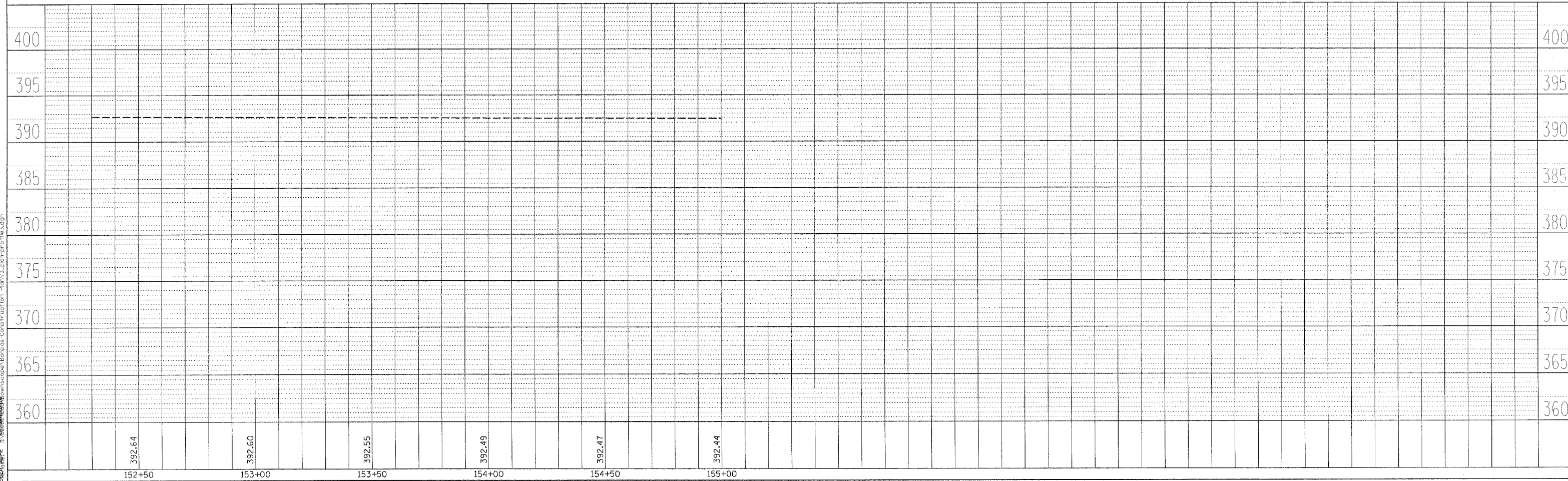
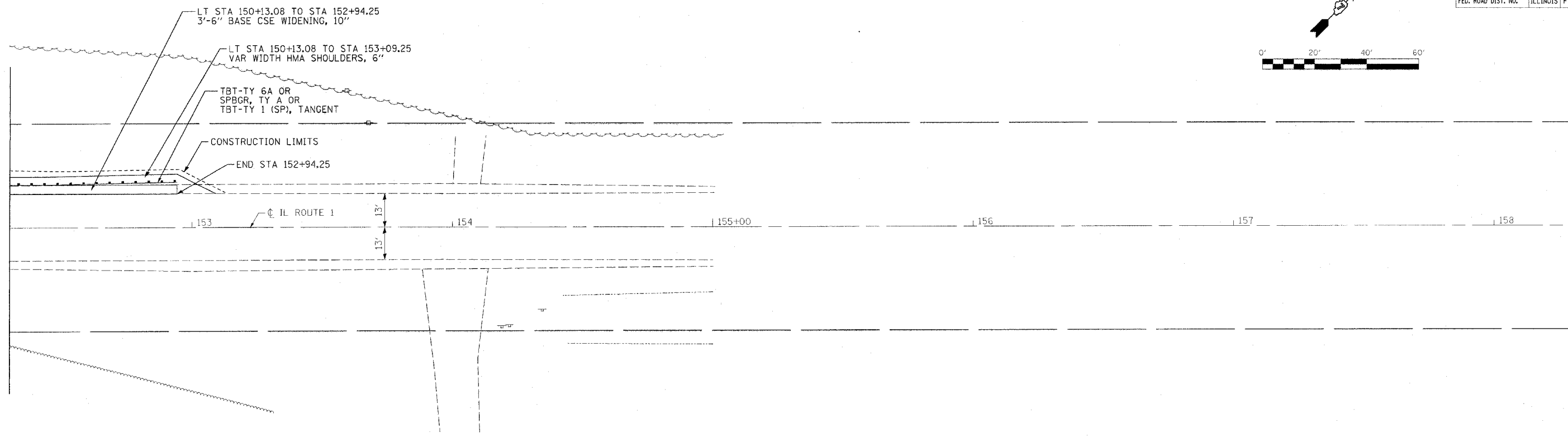
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 User Name: jordan



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	101B-1	WABASH	34	11
STA. 152+30.00		TO STA. 155+00.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



MATCHLINE STA 152+30.00

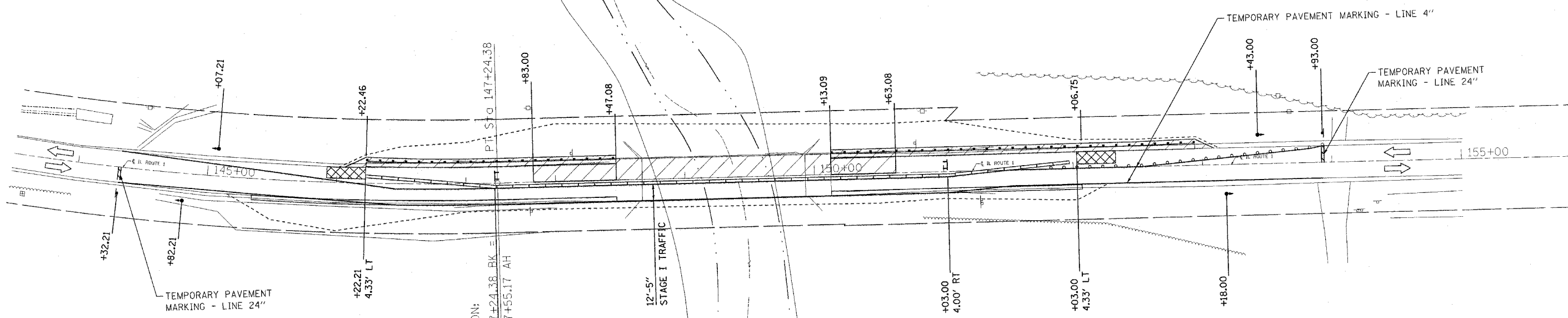
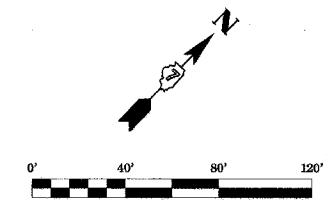


PLAN	DATE
BY	
REVIEWED	
ALIGNED	
CHECKED	
DATE	
ADD FILE NAME	

PROFILE	DATE
BY	
REVIEWED	
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHK'D	

Plot Date: 6/21/2007
 Plot Time: 5:56:20 AM
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 User Name: j...
 Device Name: \\... \...
 Device Path: \\... \...
 Device Type: ...

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	101B-1	WABASH	34	12
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



EQUATION:
 $+22.21 \text{ STA } 147+24.38 \text{ BK} =$
 $4.00' \text{ RT} + \text{ STA } 147+55.17 \text{ AH}$

PRIOR TO STAGE I CONSTRUCTION

USING STANDARD 701326 CONSTRUCT BASE COURSE WIDENING, 10" AS SHOWN ON THE PLANS FROM RT STA 145+34.96 TO RT STA 148+47.08 AND FROM RT STA 150+13.09 TO RT STA 152+06.75

STAGE I SEQUENCE OF CONSTRUCTION

PLACE STAGE I TRAFFIC CONTROL ACCORDING TO STANDARD 701321 AND AS SHOWN
 DIRECT TRAFFIC TO STAGE I ROADWAY AND COMPLETE STAGE I STRUCTURAL, GUARDRAIL, BASE COURSE WIDENING AND SHOULDER WORK
 COMPLETE PROFILE CORRECTION AND RESURFACING OF STAGE I PAVEMENT AT THE LOCATIONS SHOWN ON THE PLANS

- LEGEND**
- WORK AREA
 - SIGN (SEE STD 701321)
 - DRUM WITH STEADY BURNING LIGHT
 - TRAFFIC SIGNAL
 - TEMPORARY CONCRETE BARRIER
 - IMPACT ATTENUATOR, TEMPORARY
 - DIRECTION OF TRAFFIC
 - TYPE III BARRICADE
 - PERIMETER EROSION BARRIER

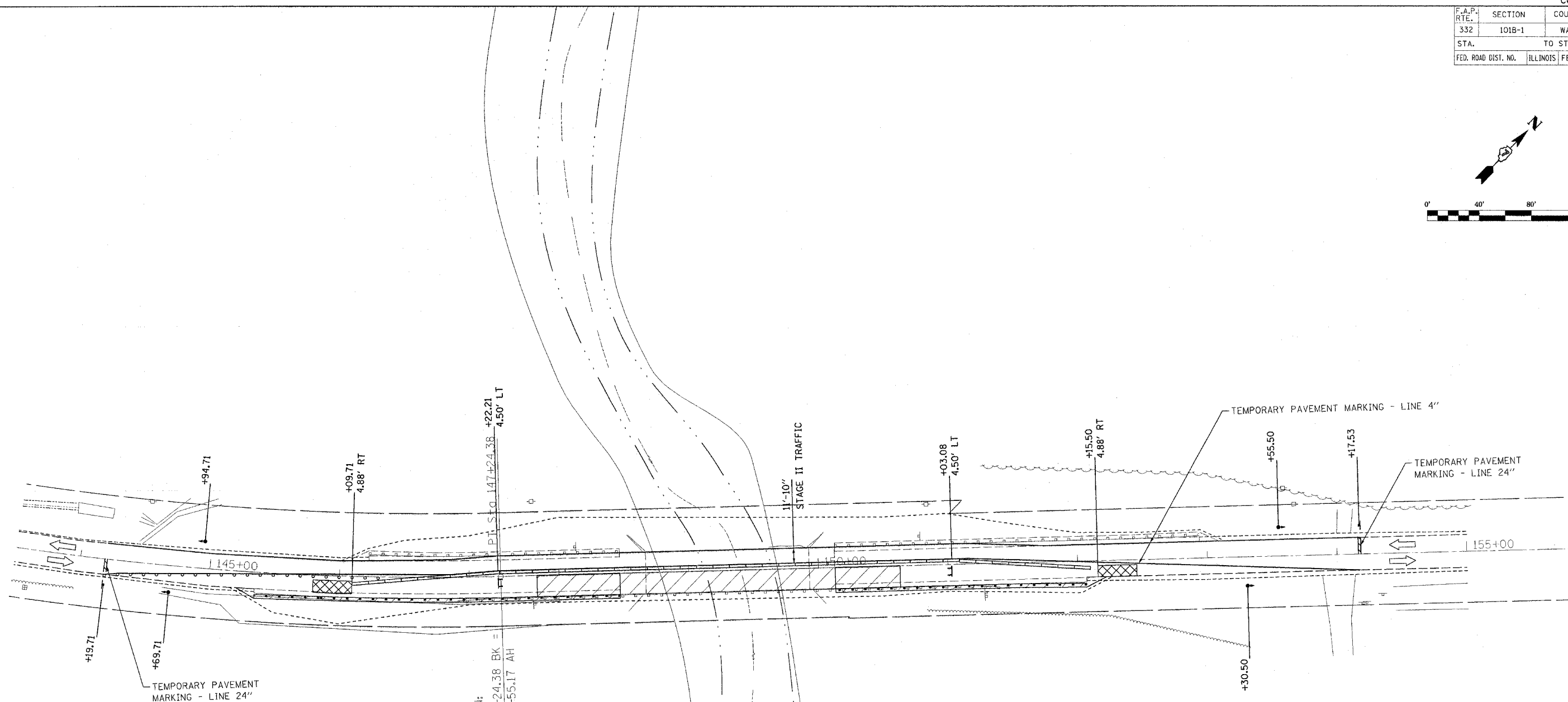
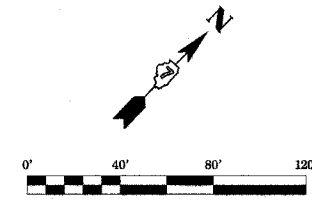
REVISIONS	
NAME	DATE

COOMBE-BLOXDORF P.C.
 Engineers / Land Surveyors
 Springfield, Illinois
 Design Firm License No. 184-002703

ILLINOIS DEPARTMENT OF TRANSPORTATION
 STAGE I TRAFFIC CONTROL PLAN
 FAP ROUTE 332 (IL ROUTE 1)
 OVER BONPAS CREEK
 SECTION 101B-1
 WABASH COUNTY
 SCALE: 1"=40'
 DATE
 DRAWN BY
 CHECKED BY

Plot Date: 6/21/2007
 Plot Time: 9:06:20 AM
 Plot Path: C:\Users\jrb\Documents\Bompa-Construction\Plan\14_stage1-print.dgn
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 Plot Units: Feet
 Plot Color: Black
 Plot Font: Arial
 Plot Line: 1/8"

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	101B-1	WABASH	34	13
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



EQUATION:
 STG 147+24.38 BK =
 STG 147+55.17 AH

STAGE II SEQUENCE OF CONSTRUCTION

RELOCATE BARRIER WALL AND IMPACT ATTENUATORS AND PUT IN PLACE OTHER TRAFFIC CONTROL MEASURES FOR STAGE II AS REQUIRED BY 701321
 ONCE TRAFFIC IS DIRECTED TO STAGE II TRAFFIC LANES, COMPLETE STAGE II STRUCTURAL, WIDENING, GUARDRAIL, SHOULDER WORK & RESURFACING

- LEGEND**
- WORK AREA
 - SIGN (SEE STD 701321)
 - DRUM WITH STEADY BURNING LIGHT
 - TRAFFIC SIGNAL
 - TEMPORARY CONCRETE BARRIER
 - IMPACT ATTENUATOR, TEMPORARY
 - DIRECTION OF TRAFFIC
 - TYPE III BARRICADE
 - PERIMETER EROSION BARRIER

COOMBE-BLOXDORF P.C.
 Engineers / Land Surveyors
 Springfield, Illinois
 Design Firm License No. 184-002708

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 STAGE II TRAFFIC CONTROL PLAN
 FAP ROUTE 332 (IL ROUTE 1)
 OVER BONPAS CREEK
 SECTION 101B-1
 WABASH COUNTY

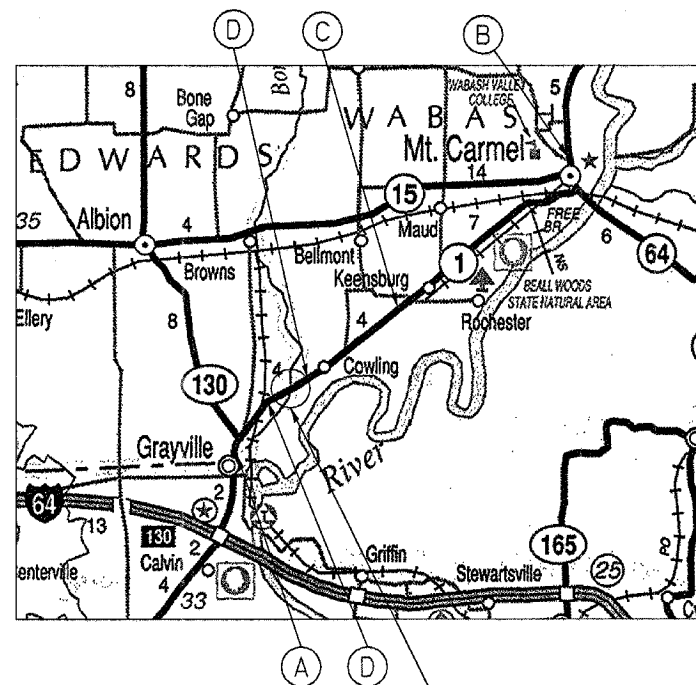
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 CHECKED BY _____

Plot Date: 6/21/2007
 Plot Date: 6/21/2007
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	101B-1	WABASH	34	14
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

INSTALL WIDTH RESTRICTION SIGNS

- (A) 1 - EACH (60 x 48)
"BRIDGE CONSTRUCTION
3 MILES AHEAD
MAXIMUM WIDTH
10 FT 4 IN"
TO BE INSTALLED JUST SOUTH OF IL 1/IL 130 INTERSECTION NORTH OF GRAYVILLE
- (B) 1 - EACH (60 x 48)
"BRIDGE CONSTRUCTION
13 MILES AHEAD
MAXIMUM WIDTH
10 FT 4 IN"
TO BE INSTALLED JUST NORTH OF IL 1/IL 15 INTERSECTION AT MT CARMEL
- (C) 1 - EACH (60 x 48)
"BRIDGE CONSTRUCTION
6 MILES AHEAD
MAXIMUM WIDTH
10 FT 4 IN"
TO BE INSTALLED SOUTH OF KEENSBURG ON IL 1
- (D) 1 - EACH (30 x 12)
"MAX WIDTH"
"9'-6"
INSTALLED UNDER EACH W20-4(0)-48-ONE LANE ROAD AHEAD SIGNS



PROJECT LOCATION



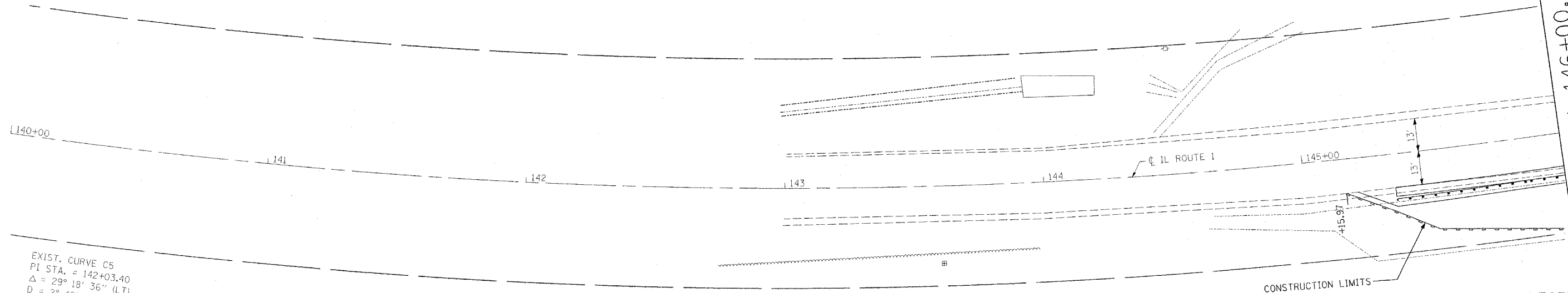
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 Plot Time: 9:56:21/2007
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 Plot Scale: 1:10000
 User: NIBEL

COOMBE-BLOXDORF P.C.
 Engineers/Land Surveyors
 Springfield, Illinois
 Design Firm License No. 184-002708

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 STAGING WIDTH RESTRICTION SIGNAGE
 FAP ROUTE 332 (IL ROUTE 1)
 OVER BONPAS CREEK
 SECTION 101B-1
 WABASH COUNTY
 SCALE: N.T.S.
 DATE: _____
 DRAWN BY CFC
 CHECKED BY _____

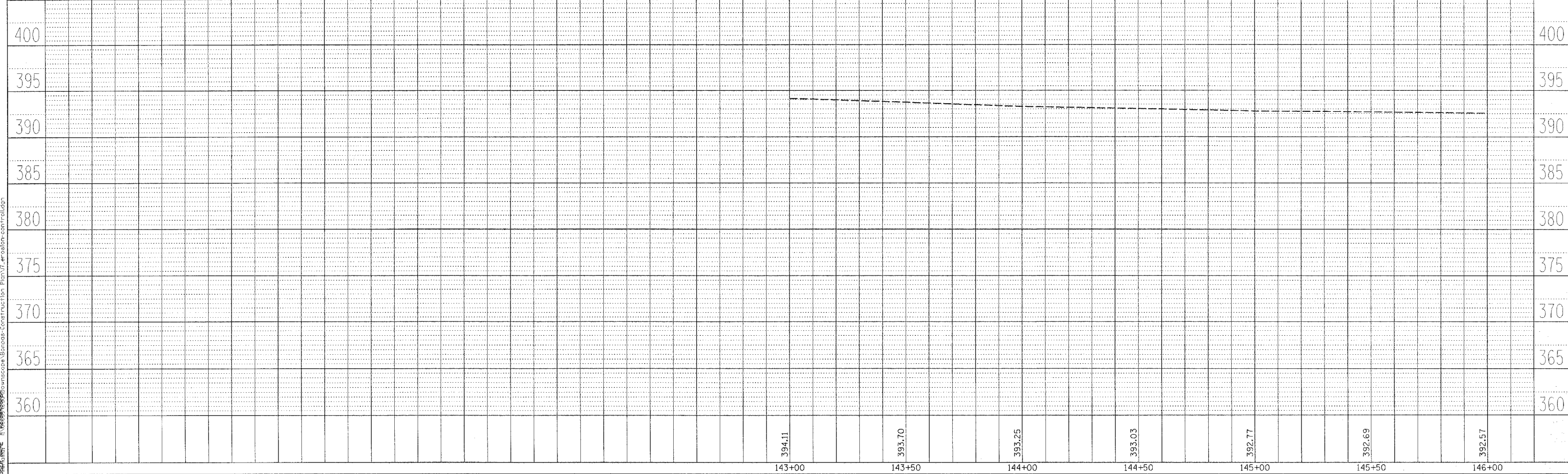
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332	101B-1	WABASH	34	15
STA. 143+00.00		TO STA. 146+00.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



EXIST. CURVE C5
 PI STA. = 142+03.40
 $\Delta = 29^\circ 18' 36''$ (LT)
 $D = 2^\circ 45' 00''$
 $R = 2,083.48'$
 $T = 544.84'$
 $L = 1,065.82'$
 $E = 70.06'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 136+58.56$
 $P.T. STA. = 147+24.38$

LEGEND

- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK



PLAN	REVISIONS	DATE

PROFILE	REVISIONS	DATE

Plot Date: 6/21/2007
 Plot Title: SN 093-0005 (BONPAS CREEK) EROSION CONTROL PLAN
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	101B-1	WABASH	34	16
STA. 146+00.00		TO STA. 152+30.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

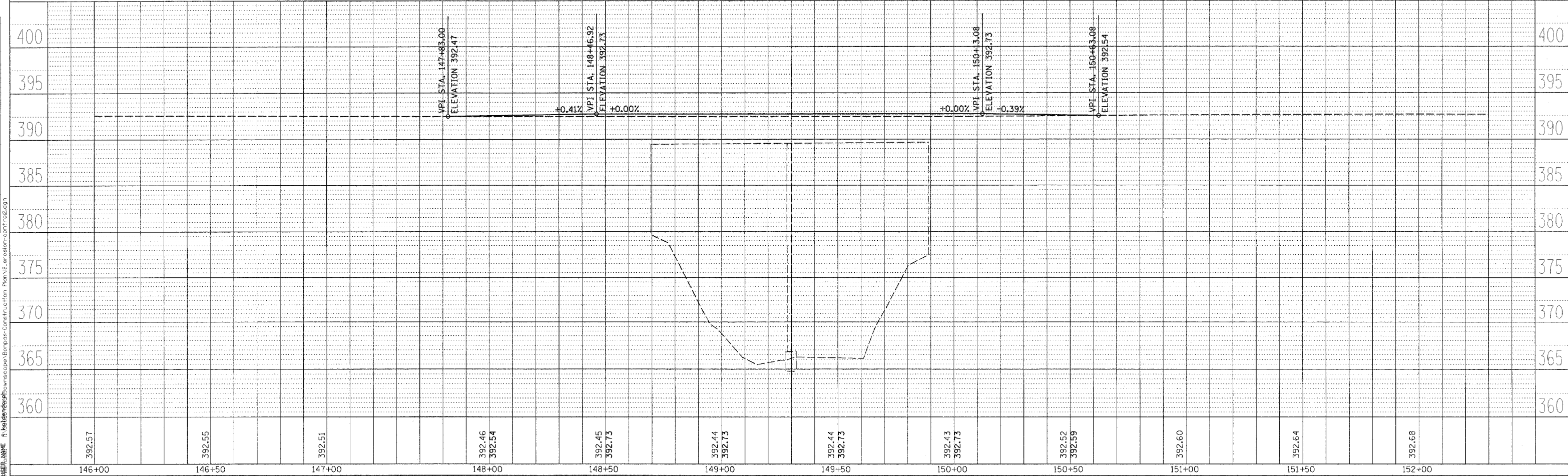
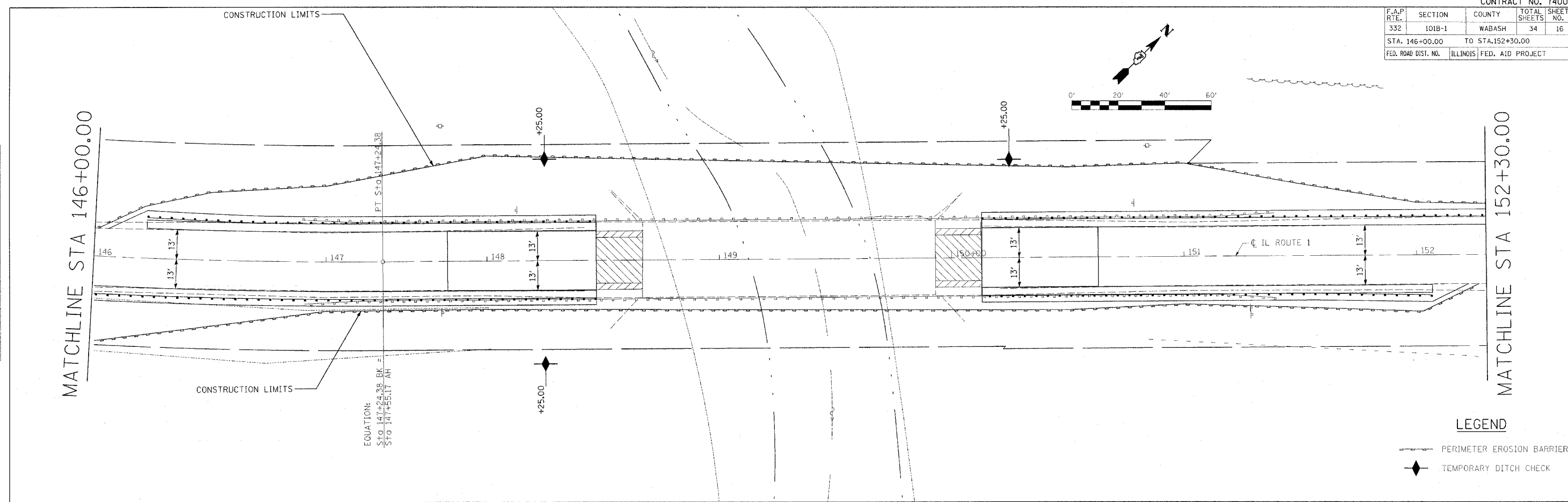
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SURVEYED	
NOTE BOOK	
PT. OF PLAN CHECKED	
NO.	
BY	

PROFILE	DATE
SURVEYED	
NOTE BOOK	
GRADES CHECKED	
CONTROL POINTS	
NO.	
BY	

Plot Date: 6/20/2007
 Plot Date: 6/20/2007
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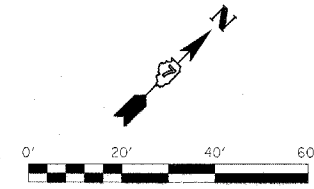
MATCHLINE STA 146+00.00

MATCHLINE STA 152+30.00



- LEGEND**
- PERIMETER EROSION BARRIER
 - TEMPORARY DITCH CHECK

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	101B-1	WABASH	34	17
STA. 152+30.00		TO STA. 155+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

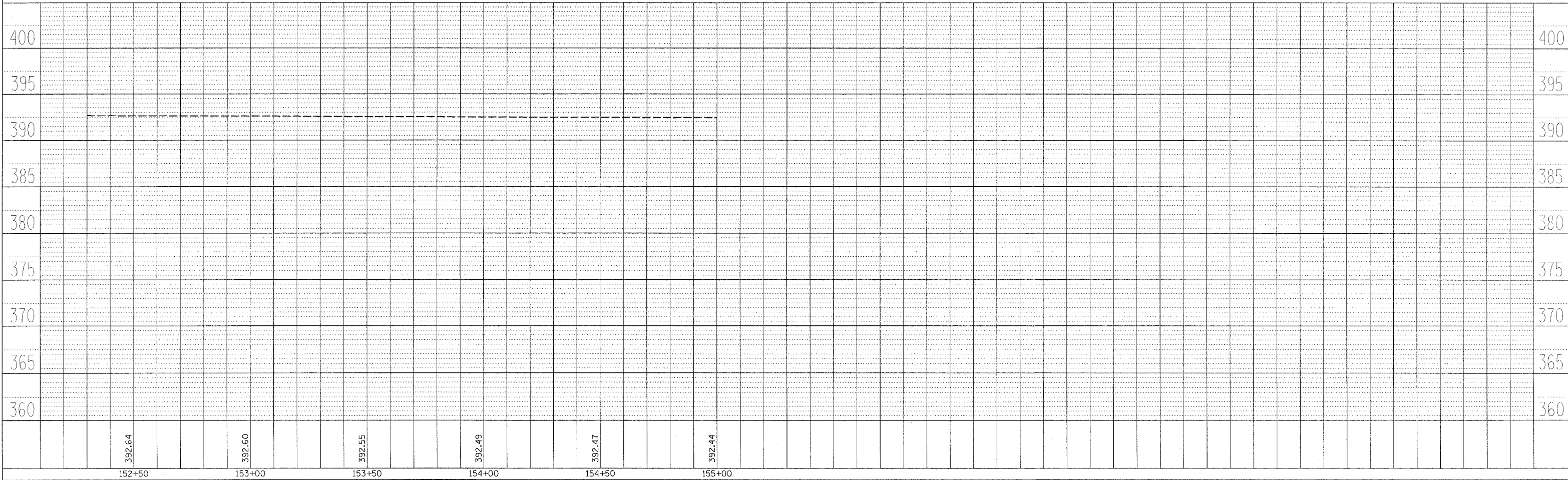


MATCHLINE STA 152+30.00



LEGEND

- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK



PLAN

DESIGNED	BY	DATE
CHECKED		
NOTED		
NO.		

PROFILE

DESIGNED	BY	DATE
CHECKED		
NOTED		
NO.		

PLOT DATE = 6/27/2007
 PLOT SCALE = 1"=20.00'
 USER NAME = koldensph

Benchmark: Chiseled "□" on N.E. corner of northeast abut. 15' Rt. Sta. 149+93, Elev. 394.00

Existing Structure: SN 093-0005 Built 1934 Sta. 149+30.00 as SBI Route 138. Rebuilt 1971 Sta. 149+30.00 as SBI Route 138, Section 101B. Structure is two span precast prestressed concrete deck beam superstructure 128'-3 3/4" Bk. to Bk. abutments and 33'-0" out to out deck on closed concrete abutments supported by untreated timber piles and solid concrete pier on spread footing embedded 6" into rock. Bridge superstructure shall be removed and replaced with new beams and reinforced concrete wearing surface. Stage construction will be utilized allowing one lane of traffic during construction.

No Salvage

LOADING HS20-44

No allowance for future wearing surface

DESIGN SPECIFICATIONS

2002 AASHTO

DESIGN STRESSES

FIELD UNITS-EXISTING **FIELD UNITS-PROPOSED**
 $f_c = 1,000$ psi $f'_c = 5,000$ psi (concrete wearing surface)
 $f_y = 20,000$ psi (reinforcement) $f_y = 60,000$ psi (reinforcement)

PRECAST PRESTRESSED UNITS

$f_c = 5,000$ psi
 $f_{ci} = 4,000$ psi
 $f'_s = 270,000$ psi (1/2" ϕ Low Relaxation Strands)
 $f_{si} = 201,960$ psi (1/2" ϕ Low Relaxation Strands)

PRECAST UNITS

$f'_c = 4,500$ psi
 $f = 60,000$ psi

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 332	101B-1	WABASH	34	11
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

Contract # 74003

GENERAL NOTES

Plan dimensions and details relative to the existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.

The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirements of ASTM A780. The zinc dust spray or paint shall be applied before corrosion appears and allowed to dry according to the manufacturer's specifications prior to another coat of zinc. A concrete sealer meeting the requirements of Section 587 of the Standard Specifications shall be applied to the exterior face and 9" in on the underside of the fascia beams. The sealer shall be applied after visible crack growth has subsided. This work shall be performed by the producer and included with the cost of the beam.

The Contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.

No drilling will be permitted into the existing precast deck beams to be used for Stage I traffic lane or the proposed deck beams.

If the Contractor's procedure for existing beam removal or placement of new beams involves placement of cranes or other heavy equipment on new beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying that the equipment and procedure used will not overstress the new beams. To distribute load to multiple beams and protect the concrete, in all cases a double layer mat of heavy timbers shall be used at all times under crane tracks or wheels and any outriggers in the down position. If necessary, shims shall be used under the crane mat to ensure uniform contact with the underlying beams. Prior to placement of the timber mats the following shall be done: placement and tightening of transverse tie assemblies, grouting and curing the dowel rods 24 hours minimum and grouting and curing the shear keys.

Any damage done to the bridge during beam removal shall be repaired by the Contractor. Cost to be included in the cost of Removal of Existing Superstructures.

Layout of Slope Protection System may be varied to suit ground conditions in field as directed by the Engineer.

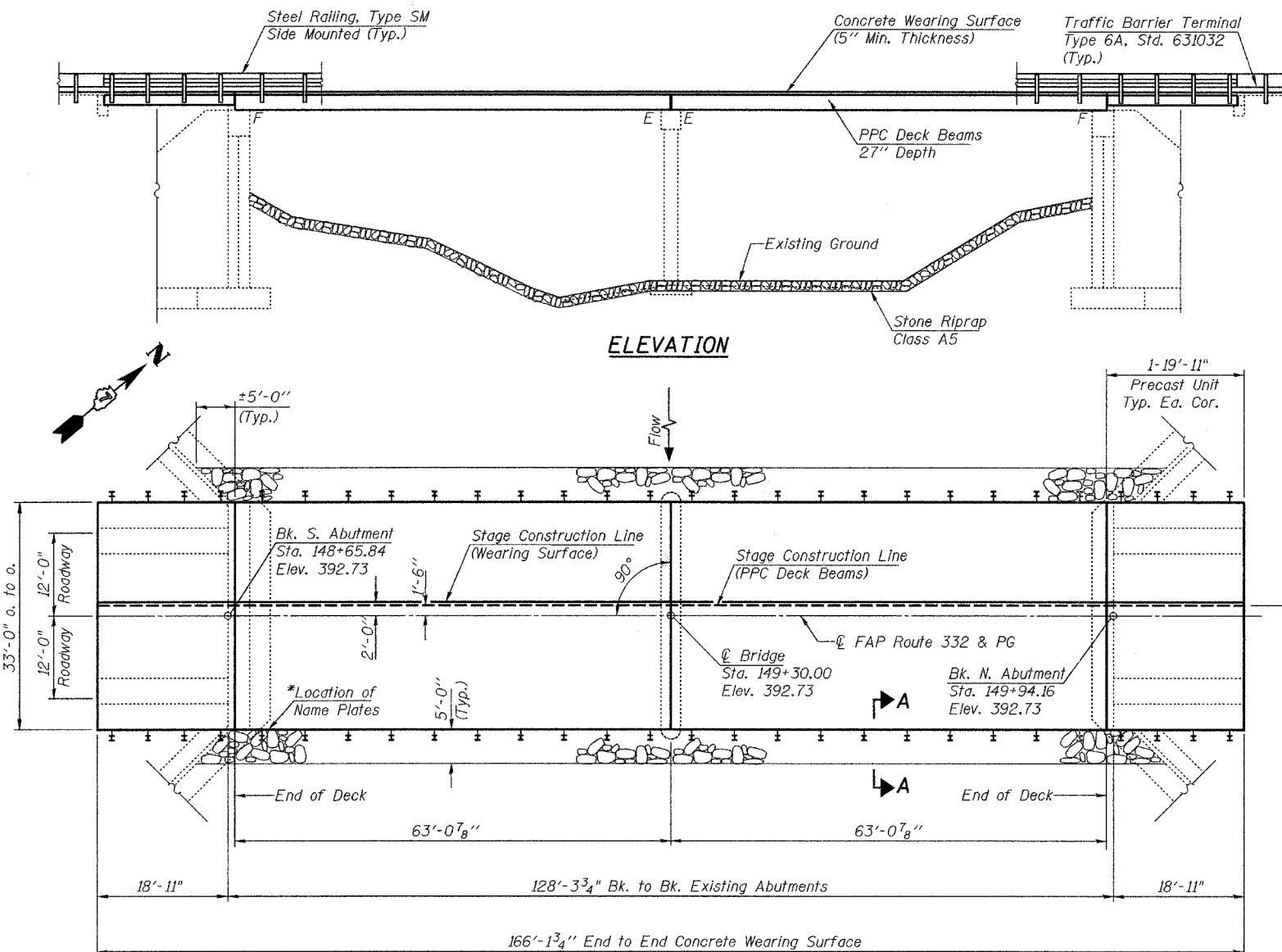
Reinforcement bars designated (E) shall be epoxy coated.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60 (IL Modified). See Special Provisions.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Superstructures	Each	1		1
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	4157		4157
Reinforcement Bars, Epoxy Coated	Pound	7590		7590
Steel Railing, Type SM	Foot	332		332
Name Plates	Each	1		1
Bar Splicers	Each	168		168
Concrete Wearing Surface, 5"	Sq. Yd.	613		613
Protective Coat	Sq. Yd.	613		613
Bridge Deck Grooving	Sq. Yd.	611		611
Preformed Joint Strip Seal	Foot	33		33
Precast Concrete Bridge Slab	Sq. Ft.	299		299
** Removal of Existing Precast Concrete Unit	Sq. Ft.	299		299
Stone Riprap Class A5	Sq. Yd.			603
Filter Fabric	Sq. Yd.			603
Structural Repair of Concrete (Depth Greater Than 5")	Sq. Ft.		7	7
Epoxy Crack Injection	Foot		45	45

** Removal of existing Precast Concrete Unit shall be performed according to the requirements of Article 501 of The Standard Specifications.

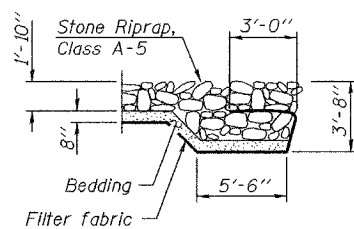


STATION 149+30.00
 REBUILT 20... BY
 STATE OF ILLINOIS
 F.A.P. RTE. 332 SEC. 101B-1
 LOADING HS20
 STRUCTURE NO. 093-0005

NAME PLATE

See Std. 515001

*The existing name plate shall be cleaned and relocated next to the new name plate. Both name plates shall be attached to the backside of the 8" rail element in the location shown. Cost included with Name Plates.



SECTION A-A

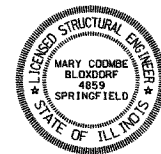
PLAN

INDEX OF SHEETS

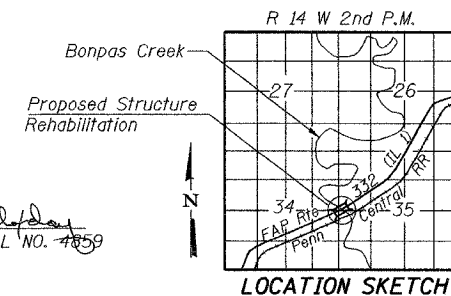
- 1) General Plan & Elevation
- 2) Staged Construction
- 3) Temporary Concrete Barrier For Stage Construction
- 4) Superstructure
- 5) Preformed Joint Strip Seal
- 6) Approach Beam Details
- 7) Beam Details
- 8) Steel Railing, Type SM With Concrete Wearing Surface
- 9) Abutment & Pier Details
- 10) Abutment Repair Details
- 11) Bar Splicer Assembly Details

APPROVED
 FOR STRUCTURAL ADEQUACY ONLY

Robert E. Anderson
 ENGINEER OF BRIDGES AND STRUCTURES



Mary Coombe Bloxdorf
 ILLINOIS STRUCTURAL NO. 4859
 EXPIRES: 11/30/08
 DATE: 3/15/07

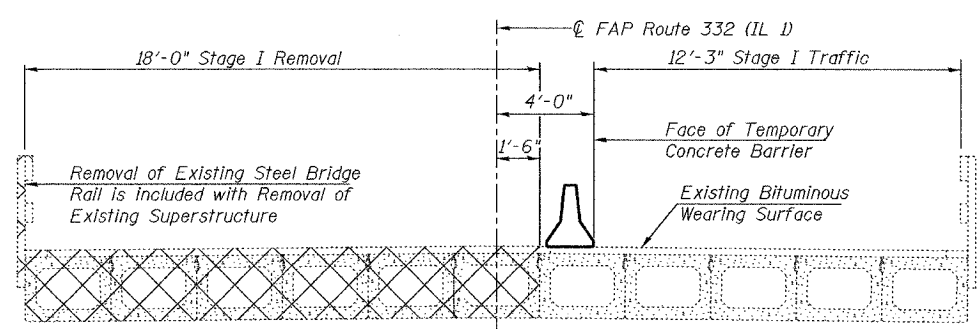


ILLINOIS DEPARTMENT OF TRANSPORTATION	
SHEET TITLE GENERAL PLAN & ELEVATION	
PROJECT FAP 332 OVER BONPAS CREEK FAP ROUTE 332 (IL 1) SECTION 101B-1 WABASH COUNTY STATION 149+30 SN 093-0005	PROJECT NO. 06026 SCALE DATE 03/15/07 DRAWN BY TFG CHECKED BY GS/CME/MCB DRAWING NO.
COOMBE-BLOXDORF P.C. Engineers / Land Surveyors Springfield, Illinois Design Firm License No. 184-002703	
1	OF 11 SHTS

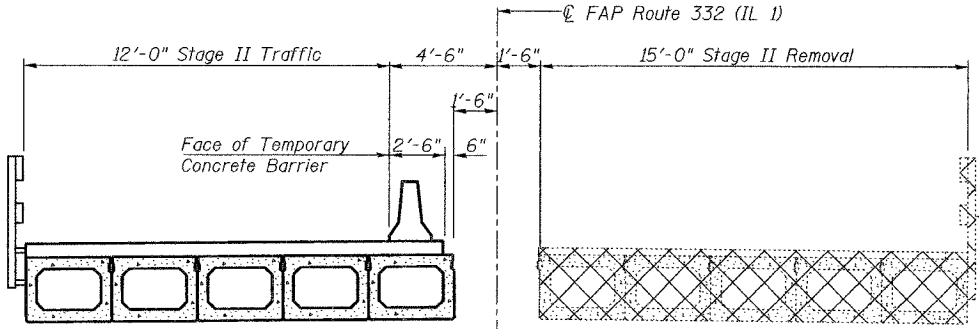
PLOT DATE = 03/15/2007
 FILE NAME = \\ibp\lga093-0005-wnt-l-CP-E.dgn
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 USER NAME = TFC

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2 11 SHEETS
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FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

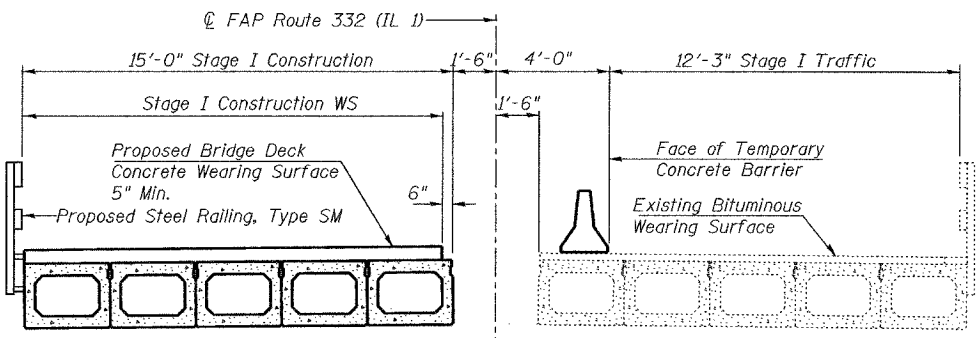
Contract # 74003



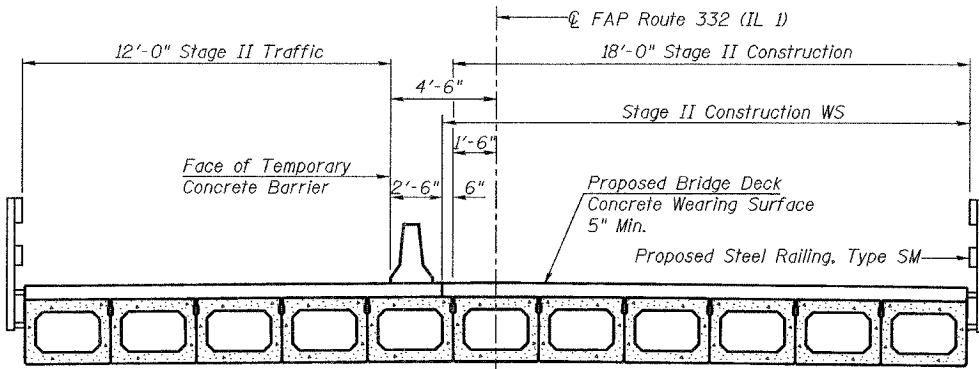
STAGE I REMOVAL
(Looking Northeast)



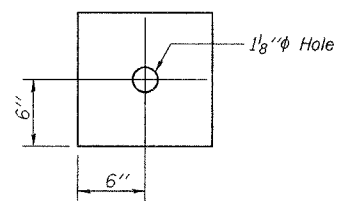
STAGE II REMOVAL
(Looking Northeast)



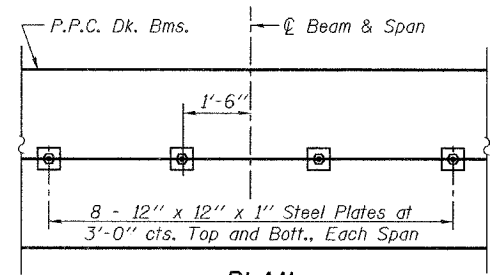
STAGE I CONSTRUCTION
(Looking Northeast)



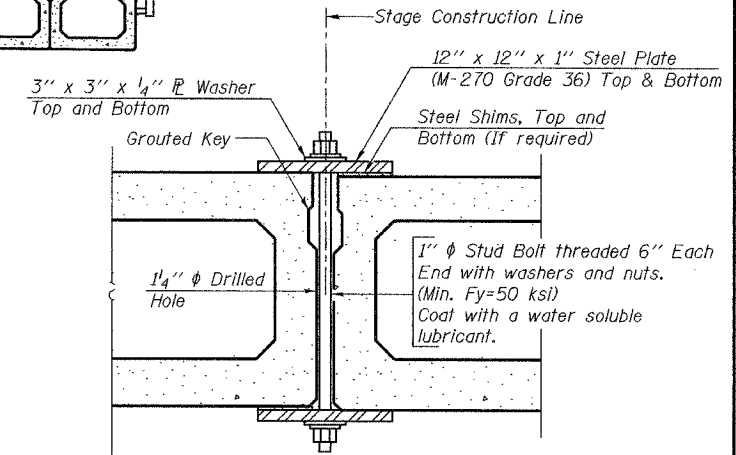
STAGE II CONSTRUCTION
(Looking Northeast)



CLAMPING PLATE



PLAN



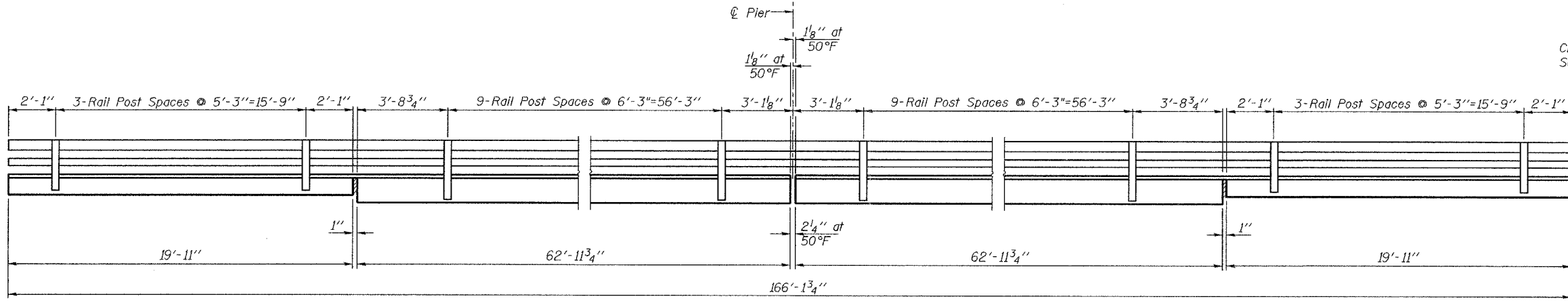
SECTION

SHEAR KEY CLAMPING DETAILS AT STAGE CONST. JT.

Cost of clamping device included in the cost of Precast Prestressed Concrete Deck Beams.

NOTES

Cross Hatched areas indicate Removal of Existing Superstructures. See Roadway plans for quantity of Temporary Concrete Barrier.



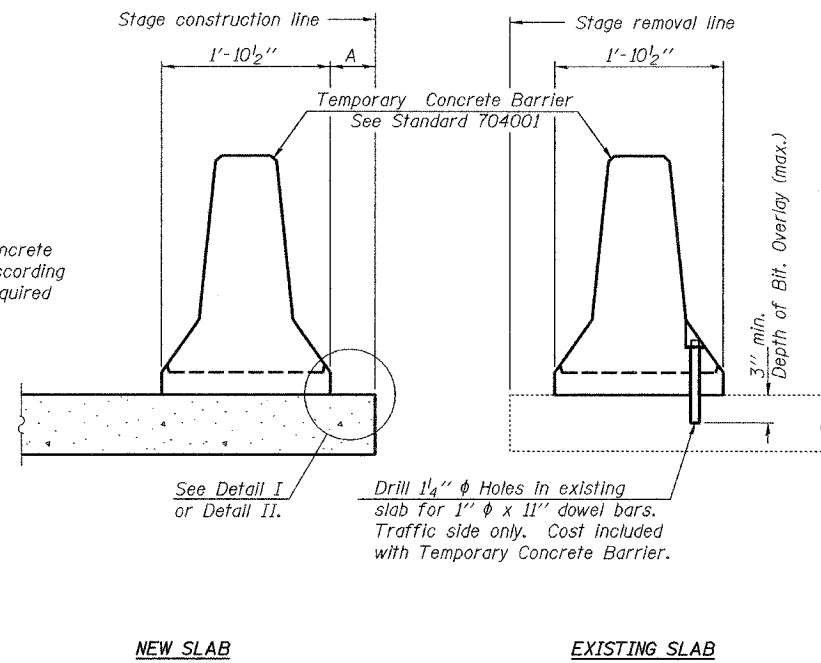
RAILING ELEVATION

PLOT DATE = 03/15/07
 PLOT SCALE = 1/8" = 1' / IN.
 USER NAME = TFG.

ILLINOIS DEPARTMENT OF TRANSPORTATION	
SHEET TITLE STAGED CONSTRUCTION	
PROJECT FAP 332 OVER BONPAS CREEK FAP ROUTE 332 (IL 1) SECTION 101B-1 WABASH COUNTY STATION 149+30 SN 093-0005	PROJECT NO. 06026 SCALE DATE 03/15/07 DRAWN BY TFG CHECKED BY CB/CME/MCB DRAWING NO.
COOMBE-BLOXDORF P.C. Engineers / Land Surveyors Springfield, Illinois Design Firm License No. 184-002703	
2 OF 11 SHTS.	

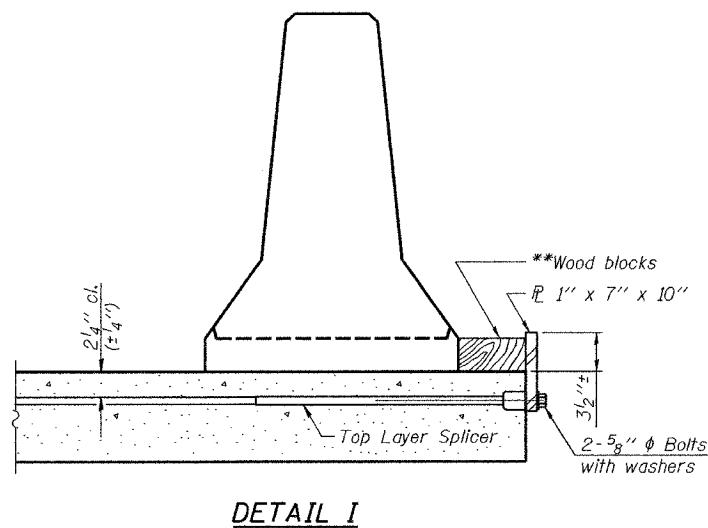
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 3 11 SHEETS
FAP 332	101B-1	WABASH	34	20	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

Contract # 74003

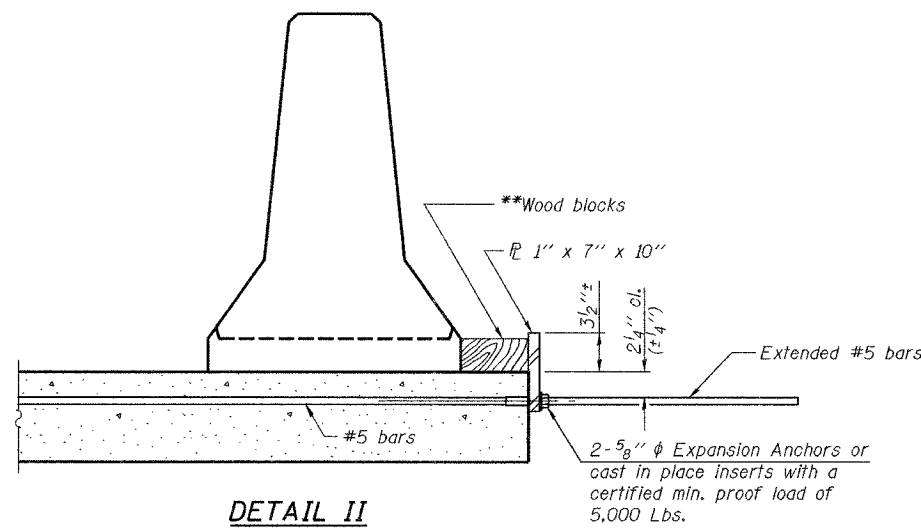


When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".

SECTIONS THRU SLAB



DETAIL I

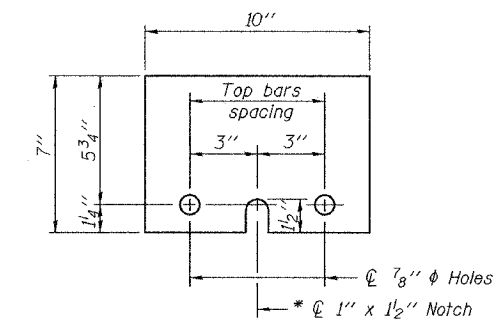


DETAIL II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

NOTES

- Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel \bar{L} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.
 - Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel \bar{L} to the concrete slab with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.
- Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.



STEEL RETAINER \bar{L} 1" x 7" x 10"

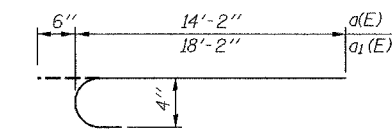
* Required only with Detail II

PLOT DATE = 03/15/2007
FILE NAME = R-27-TEMP-CONC-BARRIER.dgn
PLOT SCALE = 0.10000 1' / IN.
USER NAME = TFC

R-27 11-1-06

ILLINOIS DEPARTMENT OF TRANSPORTATION		
SHEET TITLE TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION		
PROJECT FAP 332 OVER BONPAS CREEK FAP ROUTE 332 (IL 1) SECTION 101B-1 WABASH COUNTY STATION 149+30 SN 093-0005	PROJECT NO. 06026 SCALE DATE 03/15/07 DRAWN BY TFC CHECKED BY GEB/CME/MCB DRAWING NO.	3 OF 11 SHTS
COOMBE-BLOXDORF P.C. Engineers / Land Surveyors Springfield, Illinois Design Firm License No. 184-002703		

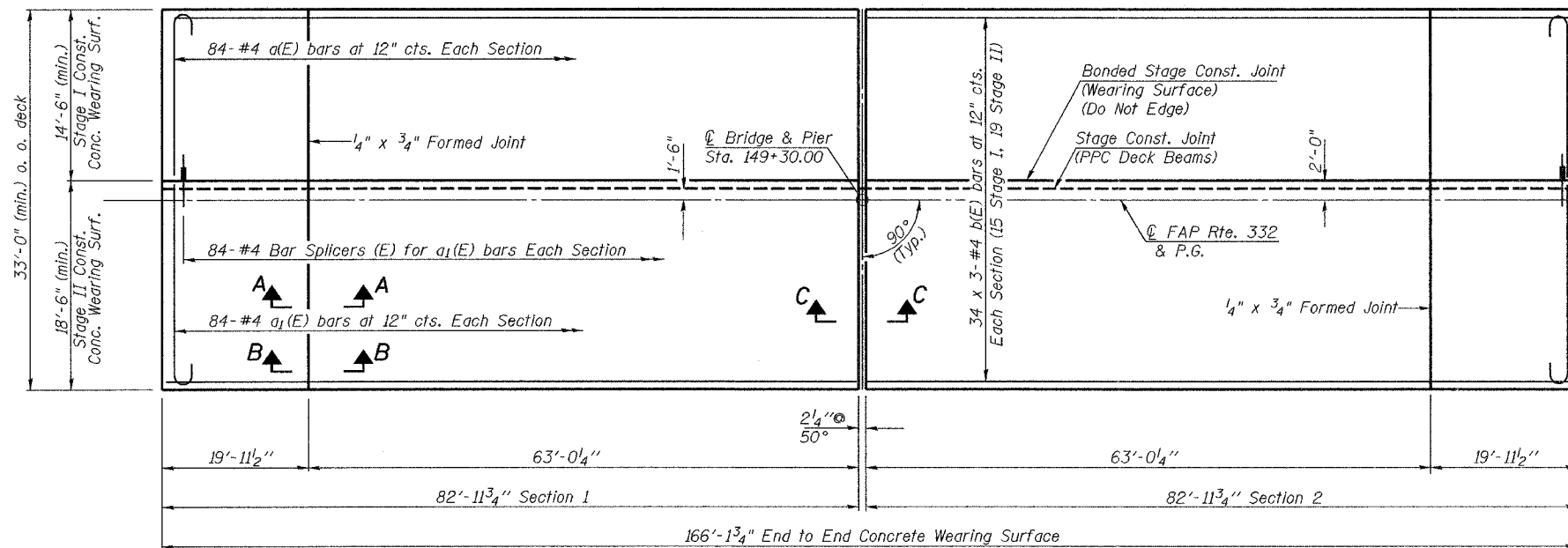
Contract # 74003



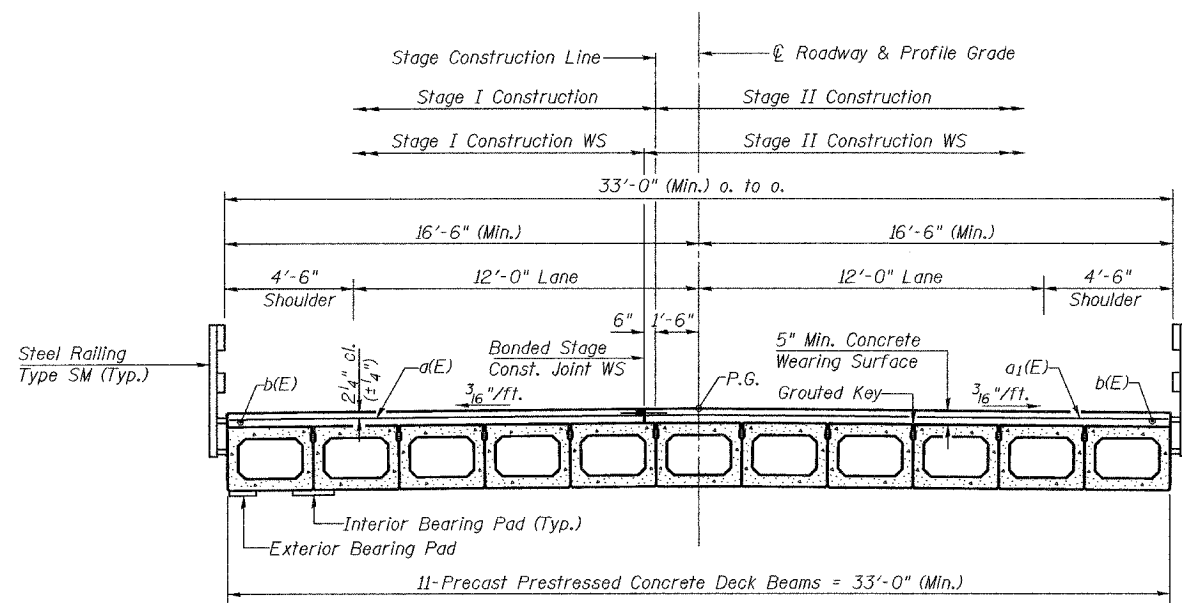
BARS a(E) and a1(E)

**SUPERSTRUCTURE
BILL OF MATERIAL**

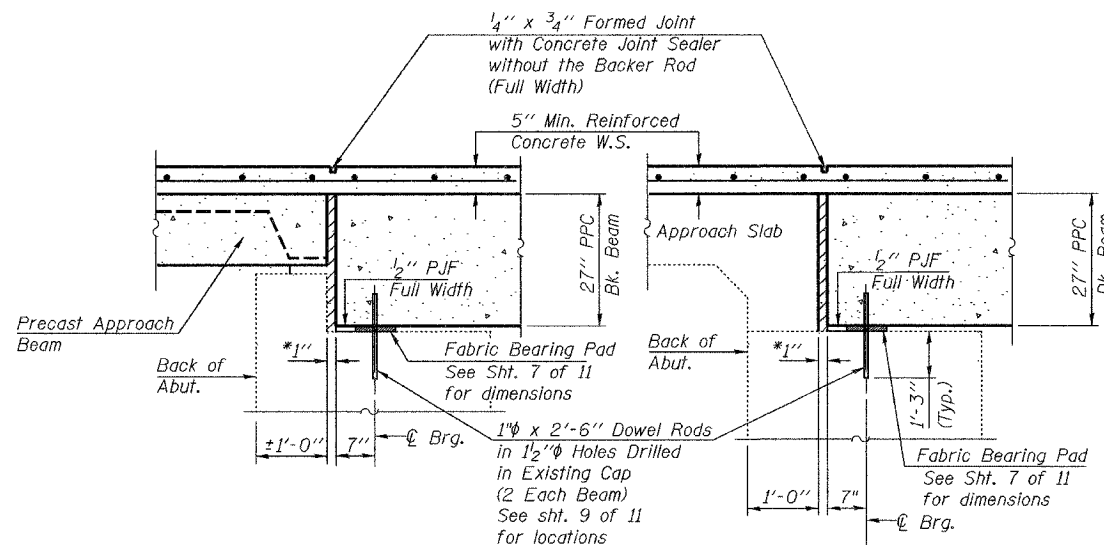
Bar	No.	Size	Length	Shape
a(E)	168	#4	14'-8"	
a1(E)	168	#4	18'-8"	
b(E)	204	#4	28'-3"	
Conc. Wearing Surface, 5"		Sq. Yd.		613
Reinforcement Bars (Epoxy Coated)		Pound		7590
Bar Splicers		Each		168



PLAN
Concrete Wearing Surface



CROSS SECTION
(Looking Northeast)



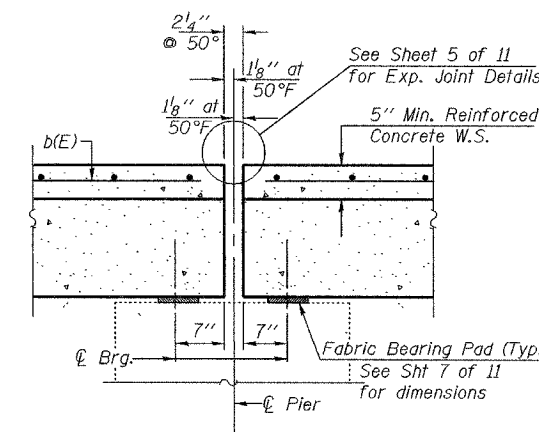
SECTION B-B

SECTION A-A

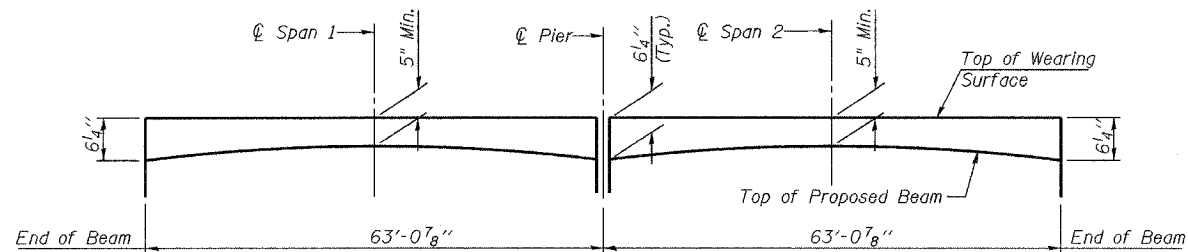
*1" Joint shall be filled with non-shrink grout.
1" dimension may vary to accommodate tolerance in beam lengths.

NOTES

Bars indicated thus 34 x 3-#4 etc, indicates 34 lines of bars with 3 lengths per line. See sheet 2 & 8 of 11 for Rail details. See sheet 11 of 11 for Bar Splicer Details. After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure minimum 24 hours prior to grouting the shear keys. The 5" wearing surface will be poured after the beams have been erected and the joints are grouted.



SECTION C-C



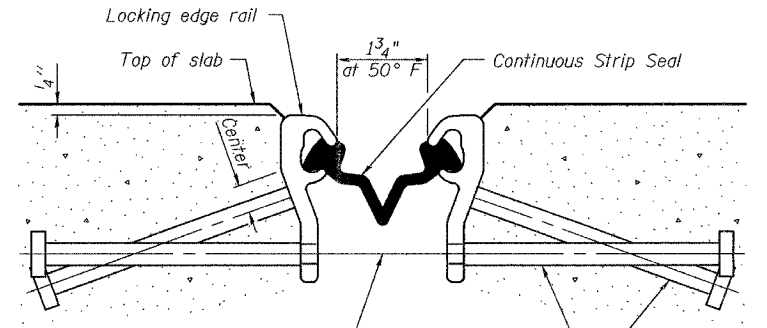
REINFORCED CONCRETE WEARING SURFACE CAMBER DIAGRAM

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FILE NAME = 6033-0005-011-4-superstructure.dgn
PLOT SCALE = 0.10000 1" / 11"
USER NAME = TFC

ILLINOIS DEPARTMENT OF TRANSPORTATION	
SHEET TITLE	
SUPERSTRUCTURE	
PROJECT	PROJECT NO.
FAP 332 OVER BONPAS CREEK	06026
FAP ROUTE 332 (IL 1) SECTION 101B-1	DATE
WABASH COUNTY	04/17/07
STATION 149+30	DRAWN BY
SN 093-0005	TFG
	CHECKED BY
	GB/CME/MCB
	DRAWING NO.
COOMBE-BLOXDORF P.C.	4
Engineers / Land Surveyors	
Springfield, Illinois	
Design Firm License No. 184-002703	OF 11 SHTS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 5 11 SHEETS
FAP 332	101B-1	WABASH	34	22	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

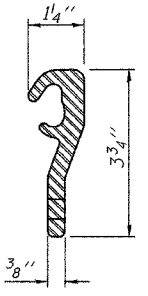
Contract # 74003



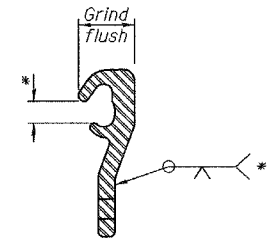
7/16" ϕ holes at 4'-0" cts. for 3/8" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

Place 1/2" ϕ x 6" granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded at 1'-0" alt. cts. (130 required)

**SECTION THRU STRIP SEAL JOINT
FOR OVERLAY OVER DECK BEAMS**



LOCKING EDGE RAIL



LOCKING EDGE RAIL SPLICE

*Omit weld at seal opening.

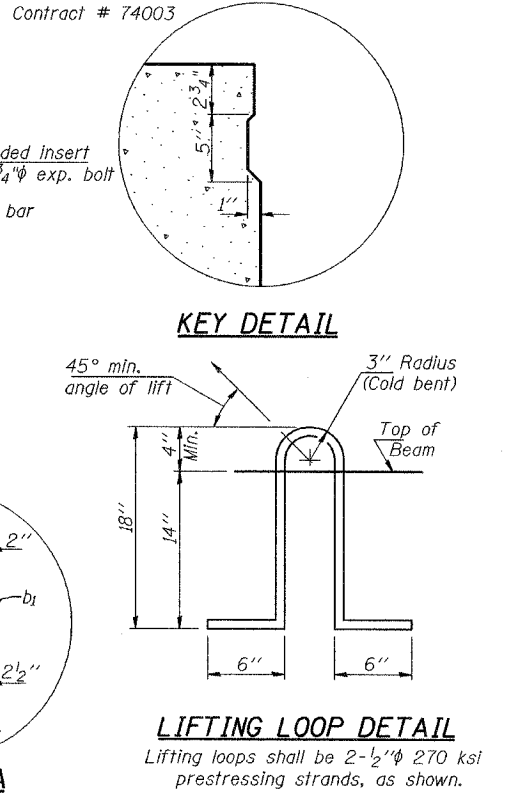
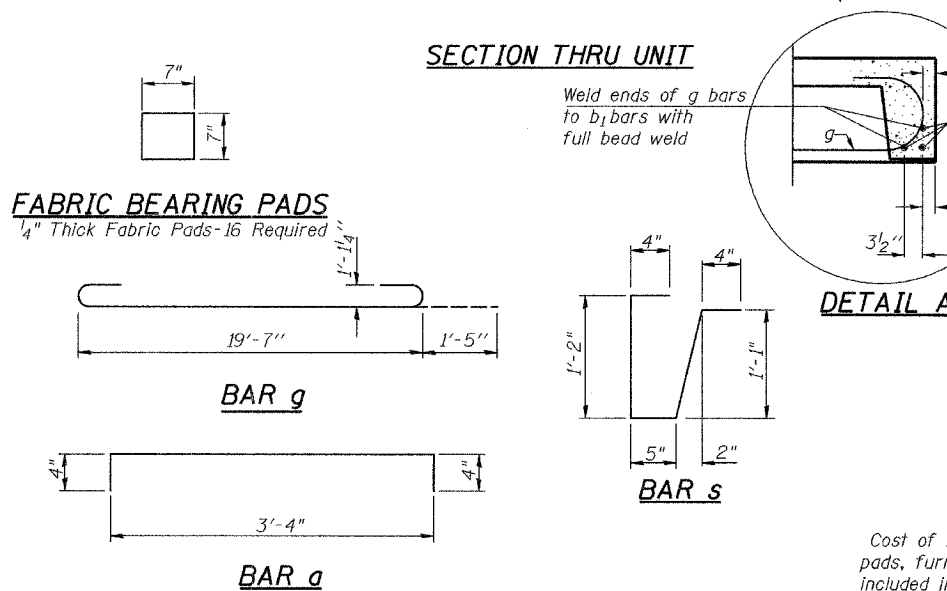
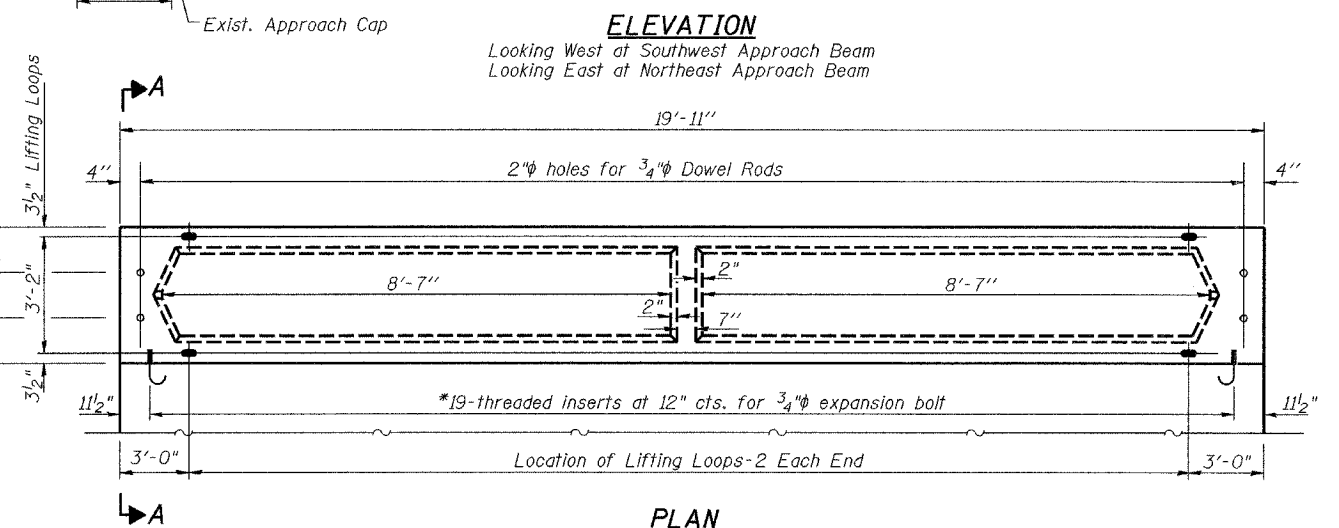
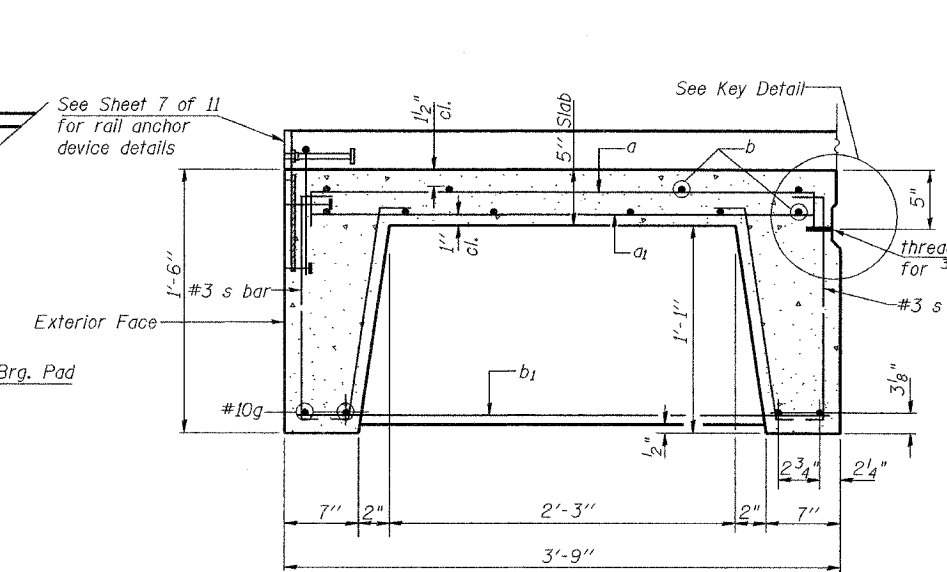
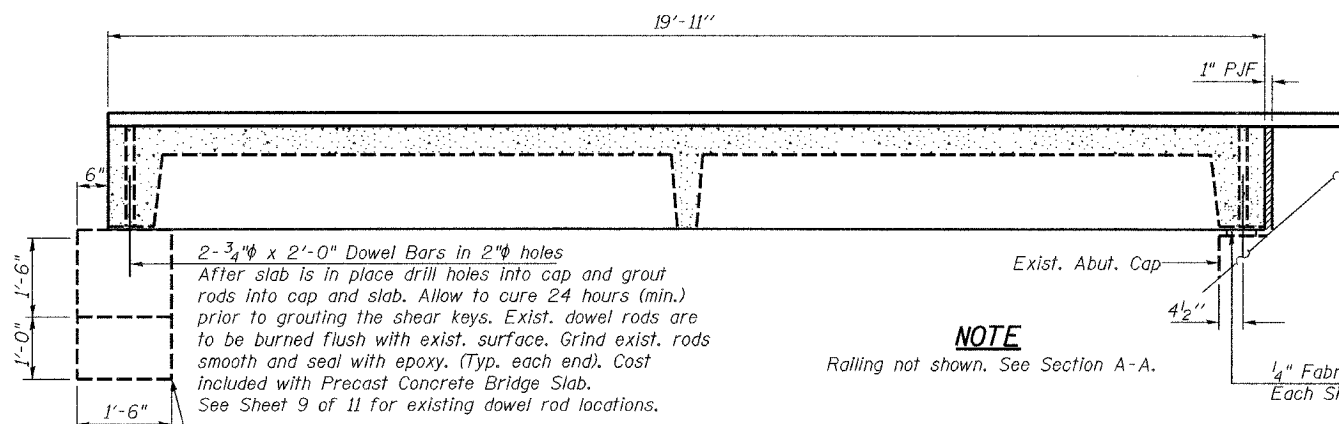
BILL OF MATERIAL

Item	Unit	Quantity
Preformed Joint Strip Seal	Foot	33

Notes:
 The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.
 The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed.
 The inside of the Locking Edge Rail groove shall be free of weld residue.
 Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.
 The manufacturer's recommended installation methods shall be followed.

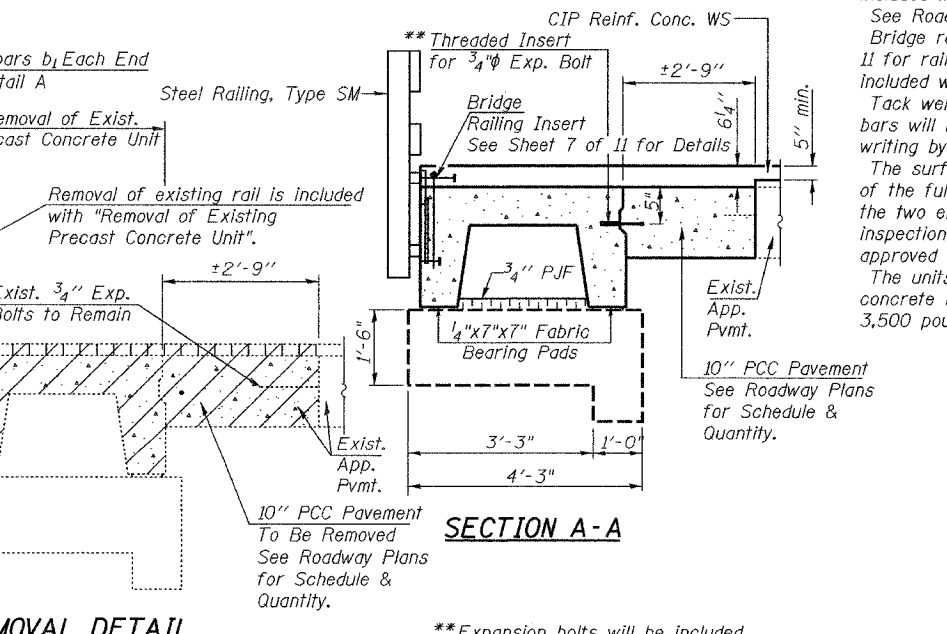
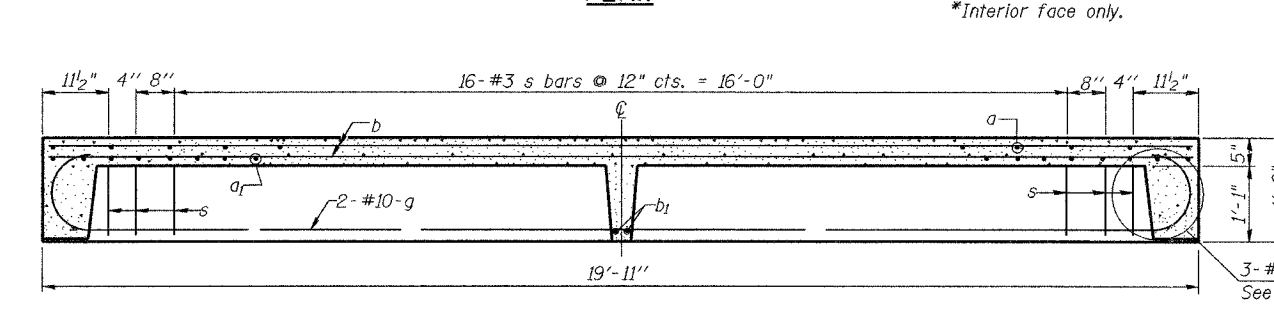
ILLINOIS DEPARTMENT OF TRANSPORTATION	
SHEET TITLE PREFORMED JOINT STRIP SEAL	
PROJECT FAP 332 OVER BONPAS CREEK FAP ROUTE 332 (IL 1) SECTION 101B-1 WABASH COUNTY STATION 149+30 SN 093-0005	PROJECT NO. 06026 SCALE DATE 03/15/07 DRAWN BY TFG CHECKED BY CB/CME/MCB DRAWING NO. 5
COOMBE-BLOXDORF P.C. Engineers / Land Surveyors Springfield, Illinois Design Firm License No. 184-002703	
OF 11 SHTS	

PLOT DATE = 03/15/2007
 PLOT SCALE = 1/8" = 1'-0"
 USER NAME = TFG



BILL OF MATERIAL

ITEM	UNIT	QUAN.
Precast Concrete Bridge Slab	Sq. Ft.	299
Removal of Existing Precast Concrete Unit	Sq. Ft.	299



NOTES

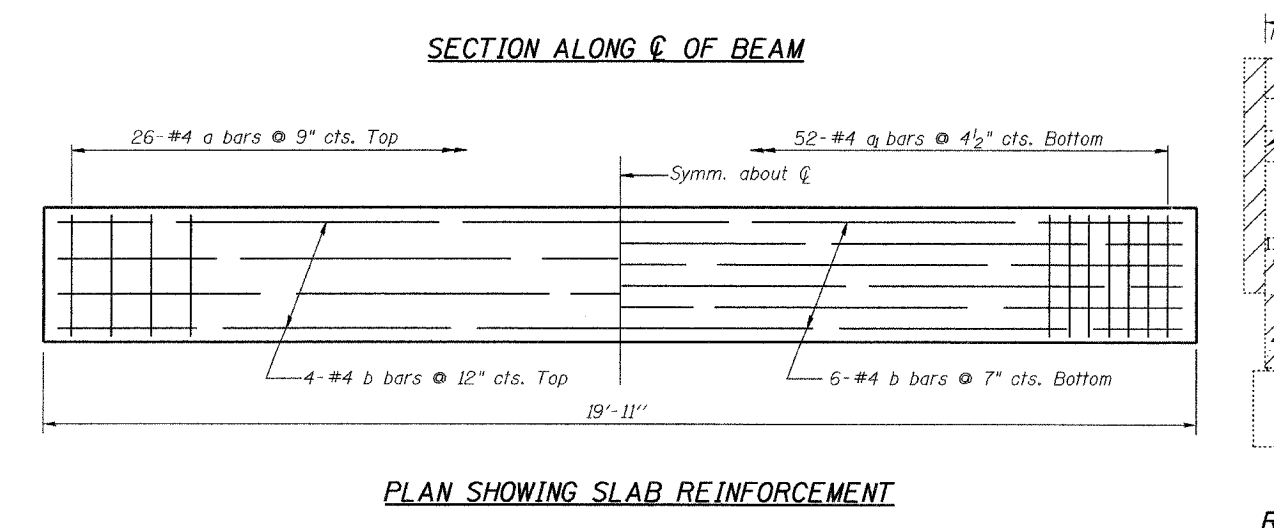
Cost of reinforcement and accessories cast into slab unit, bearing pads, furnishing, drilling for, placing and grouting anchor dowels is included in Unit bid price for "Precast Concrete Bridge Slab". See Roadway Plans for Approach Slab Details.

Bridge rail inserts shall be cast in precast beams. See Sheet 2 of 11 for rail post spacing and Sheet 8 of 11 for rail details. Cost included with Precast Concrete Bridge Slab.

Tack welding of stirrups to bottom longitudinal reinforcement bars will not be permitted except as otherwise authorized in writing by the Engineer.

The surface of the member shall not deviate more than 1/1200 of the full length of the member from a straight line connecting the two end points on the member's surface. In addition to State inspection and prior to erection, the beam shall be tested and approved by the resident Engineer at the jobsite.

The units shall remain on the bottom supporting forms until the concrete has attained a compressive strength of not less than 3,500 pounds per square inch.



ILLINOIS DEPARTMENT OF TRANSPORTATION

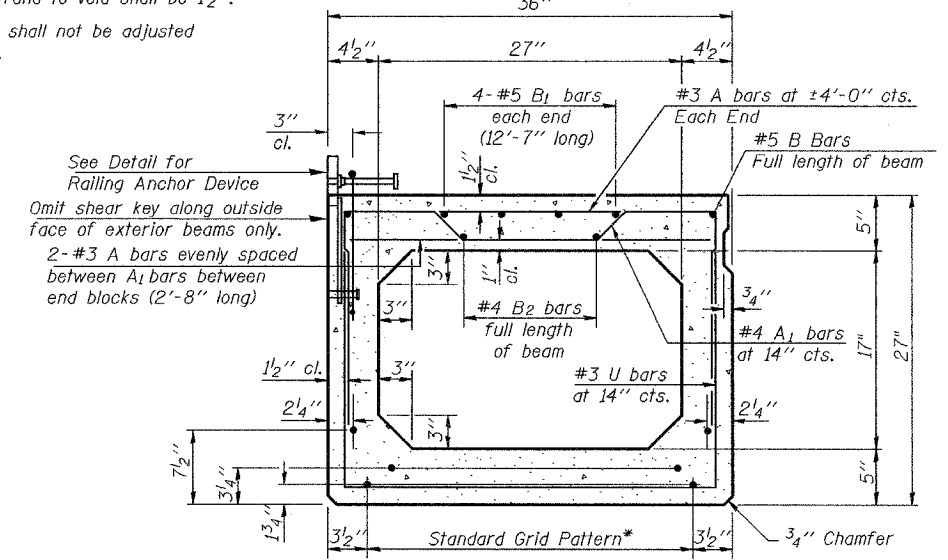
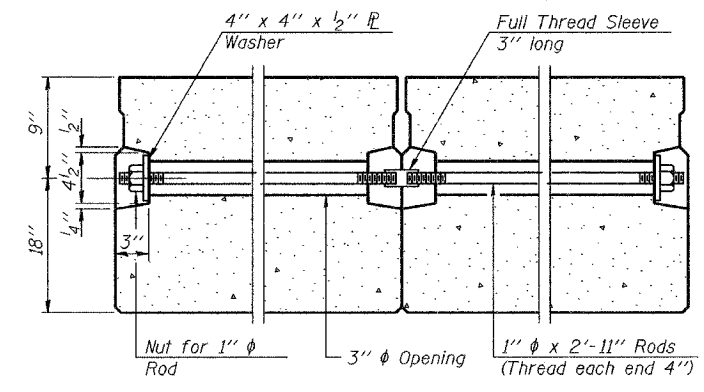
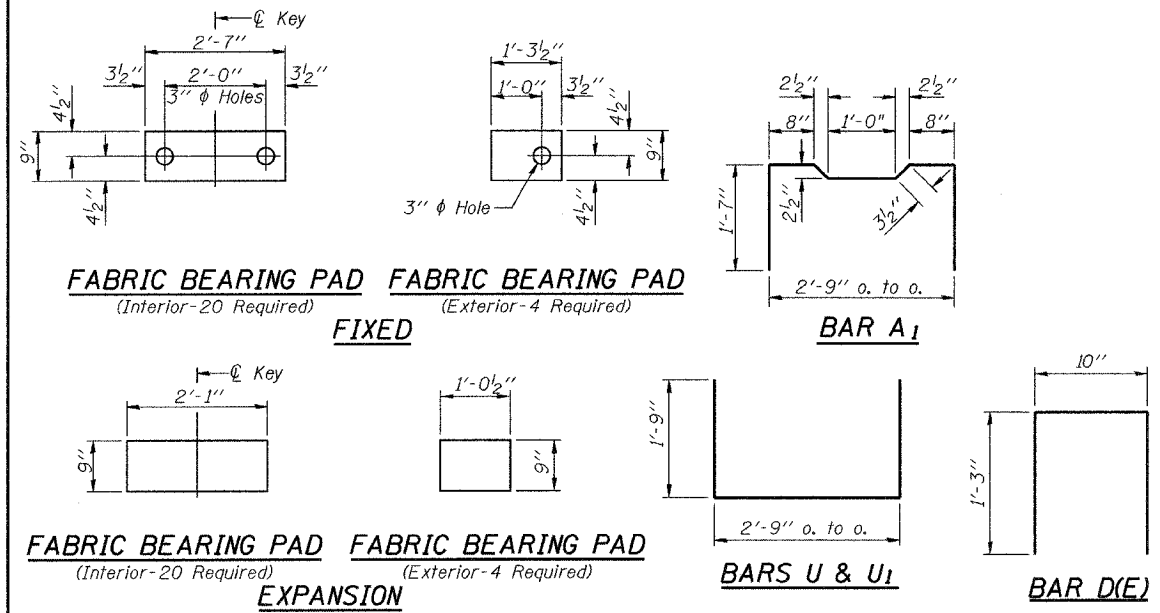
SHEET TITLE APPROACH BEAM DETAILS		PROJECT NO. 06026
PROJECT FAP 332 OVER BONPAS CREEK FAP ROUTE 332 (IL 1) SECTION 101B-1 WABASH COUNTY STATION 149+30 SN 093-0005	SCALE DATE 03/15/07 DRAWN BY TFG CHECKED BY GB/CME/MCB DRAWING NO.	PROJECT NO. 06026 DATE 03/15/07 DRAWN BY TFG CHECKED BY GB/CME/MCB DRAWING NO.
COOMBE-BLOXDORF P.C. Engineers / Land Surveyors Springfield, Illinois Design Firm License No. 184-002703		6 OF 11 SHTS

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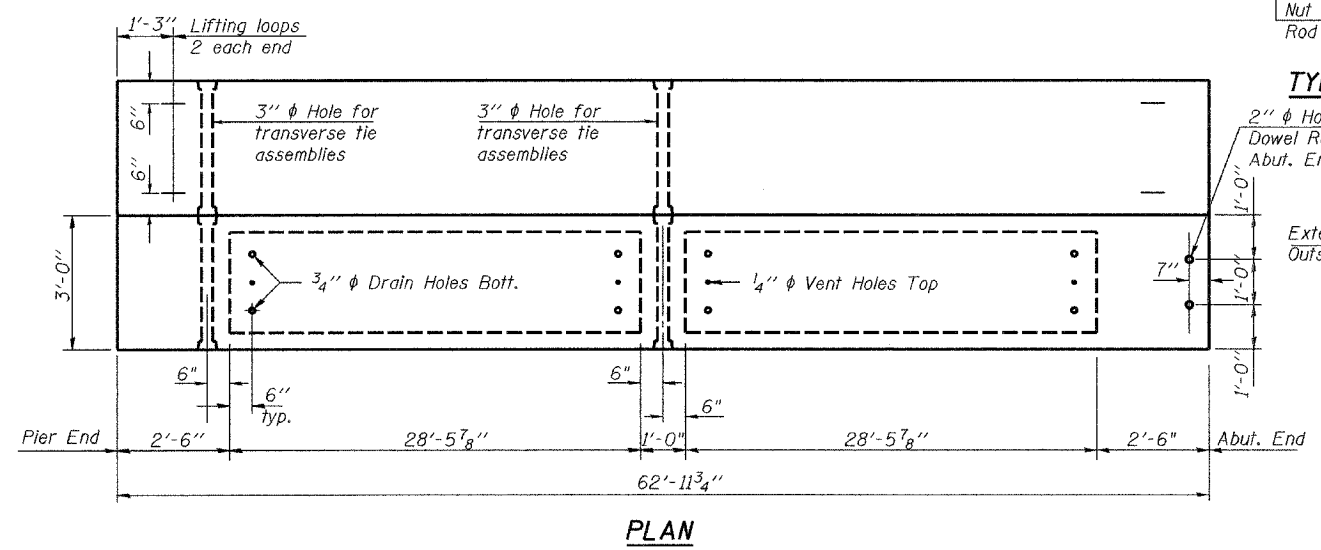
***TRANSVERSE STRAND PLACEMENT GUIDELINES**

- 1) Place strands symmetrically about centerline of beam.
- 2) The minimum distance from center to center of strands in all directions shall be 2".
- 3) The minimum clearance from strand to dowel hole shall be 1/2".
- 4) The minimum clearance from strand to void shall be 1 1/2".

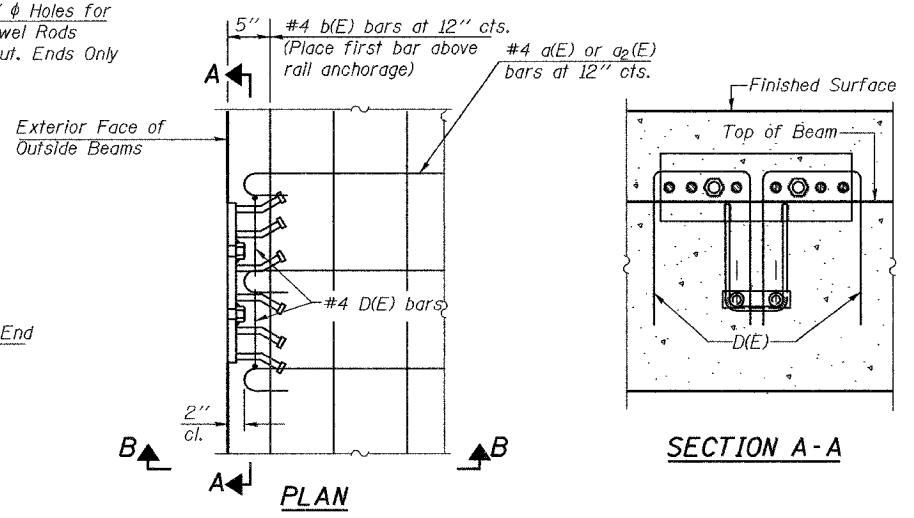
Vertical placement of strands shall not be adjusted to satisfy the above guidelines.



15-1/2" ϕ Strands Each Strand Stressed to 30,900 Lbs.
 7-Strands 1 3/4" up, 6-Strands 3/4" up & 2-strands 7/8" up



TYPICAL TRANSVERSE TIE ASSEMBLY



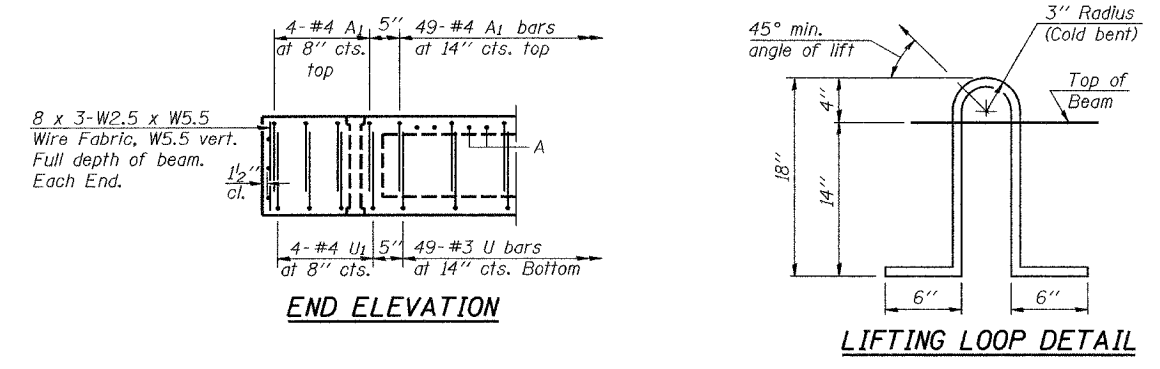
BILL OF MATERIAL

Item	Unit	Total
Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	4157

Weight of Beam=35,600 lbs.

NOTES

- Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. Lifting loops shall be 2-1/2" ϕ -270 ksi strands, as shown. The 1" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place. The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/8" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing. Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key. Corrosion Inhibitor, per Articles 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams. Required Release Strength, f'ci, shall be 4000 p.s.i. The Rail Anchorage shall be cast with the beam and the wearing surface shall be cast in the field. Formwork necessary for the wearing surface may be secured using the bottom rail anchorage inserts and/or additional inserts cast into the beam. Drilling into the beam will not be permitted. Cost included with Precast Prestressed Concrete Deck Beams. See sheet 4 of 11 for cross section. See sheet 2 of 11 for rail post spacing and sheet 8 of 11 for rail details. Non pre-stressing steel shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified).



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 USER NAME = TFC

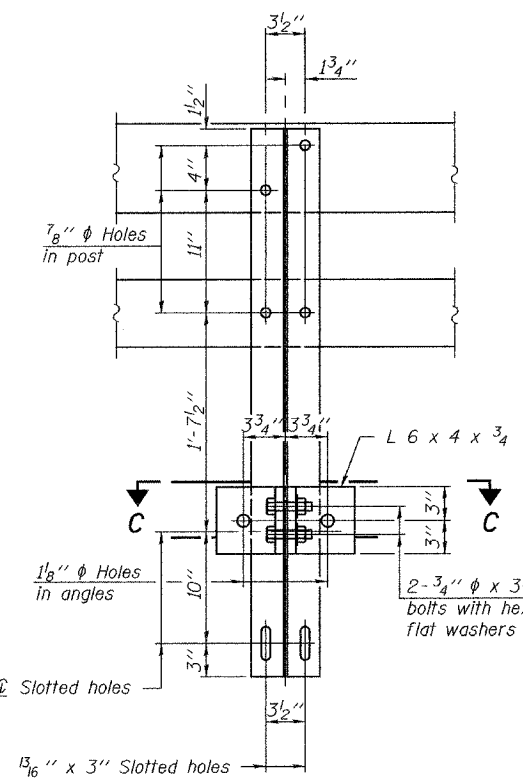
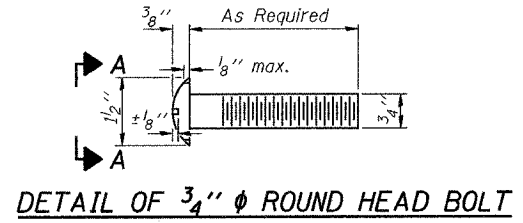
ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET TITLE: BEAM DETAILS

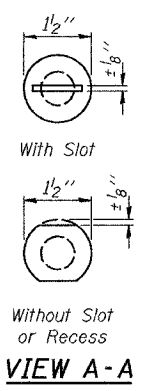
PROJECT: FAP 332 OVER BONPAS CREEK FAP ROUTE 332 (IL 1) SECTION 101B-1 WABASH COUNTY STATION 149+30 SN 093-0005	PROJECT NO. 06026 SCALE: DATE: 03/15/07 DRAWN BY: TFG CHECKED BY: GB/CME/MCB DRAWING NO. 7
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COOMBE-BLOXDORF P.C.
 Engineers / Land Surveyors
 Springfield, Illinois
 Design Firm License No. 184-002703

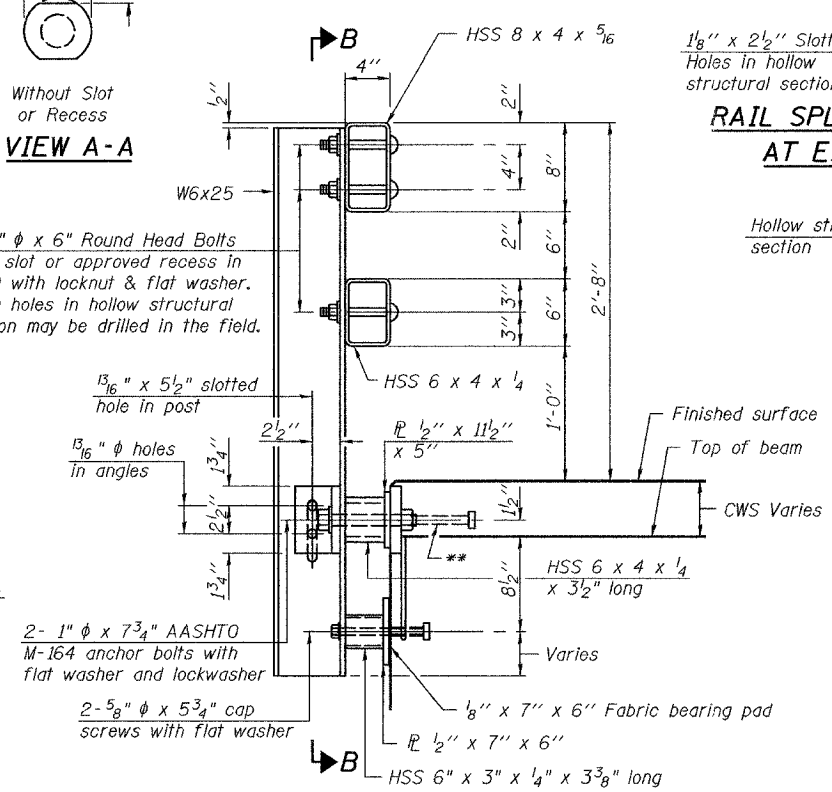
OF 11 SHTS



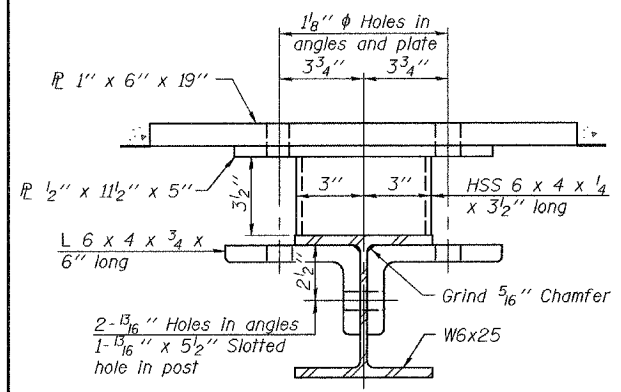
SECTION B-B



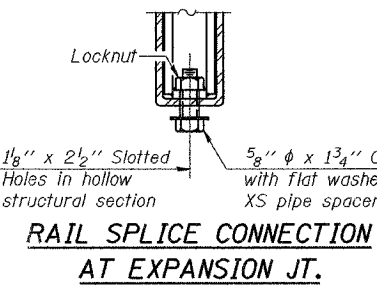
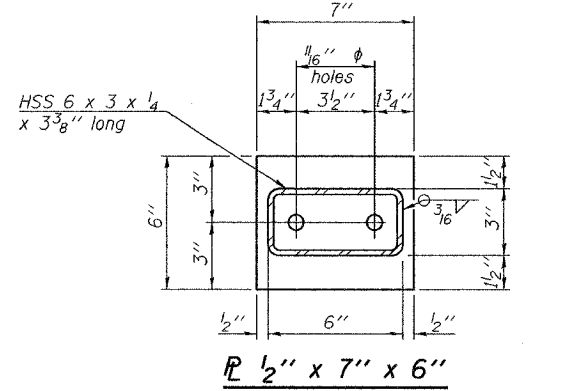
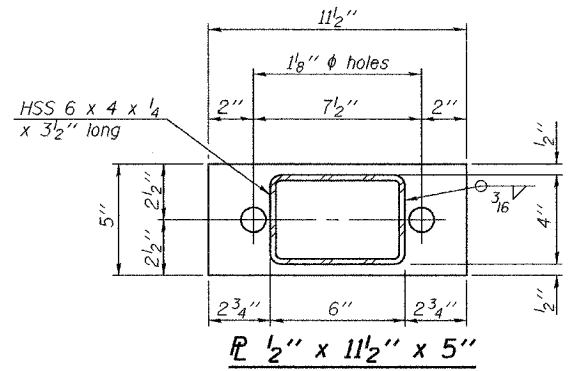
4- 3/4" ϕ x 6" Round Head Bolts (With slot or approved recess in head) with locknut & flat washer. 7/8" ϕ holes in hollow structural section may be drilled in the field.



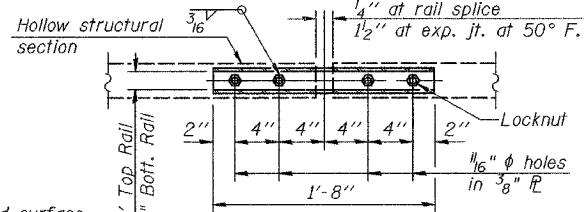
SECTION AT RAIL POST



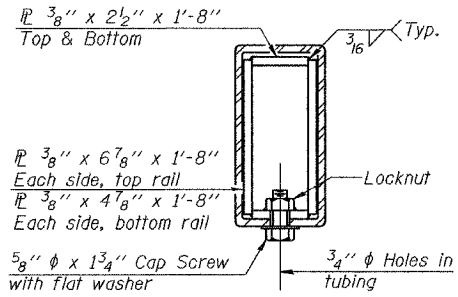
SECTION C-C



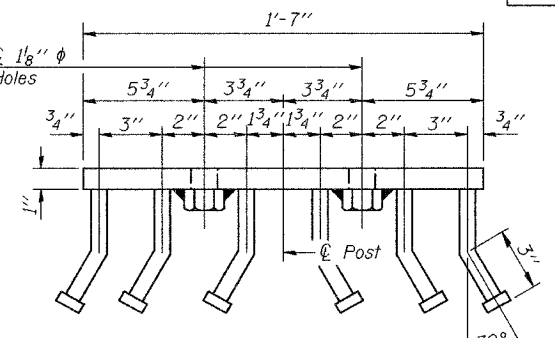
RAIL SPLICE CONNECTION AT EXPANSION JT.



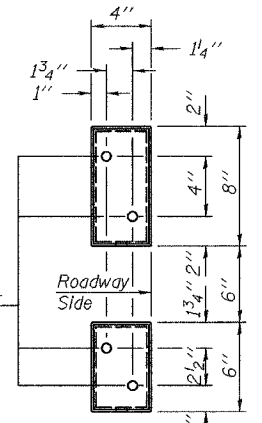
PLAN-BOTT. SPLICE TYPICAL



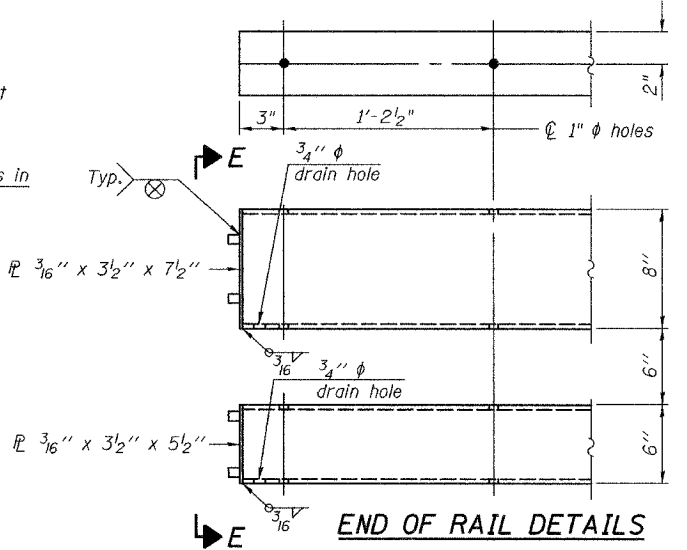
SECTION AT RAIL SPLICE



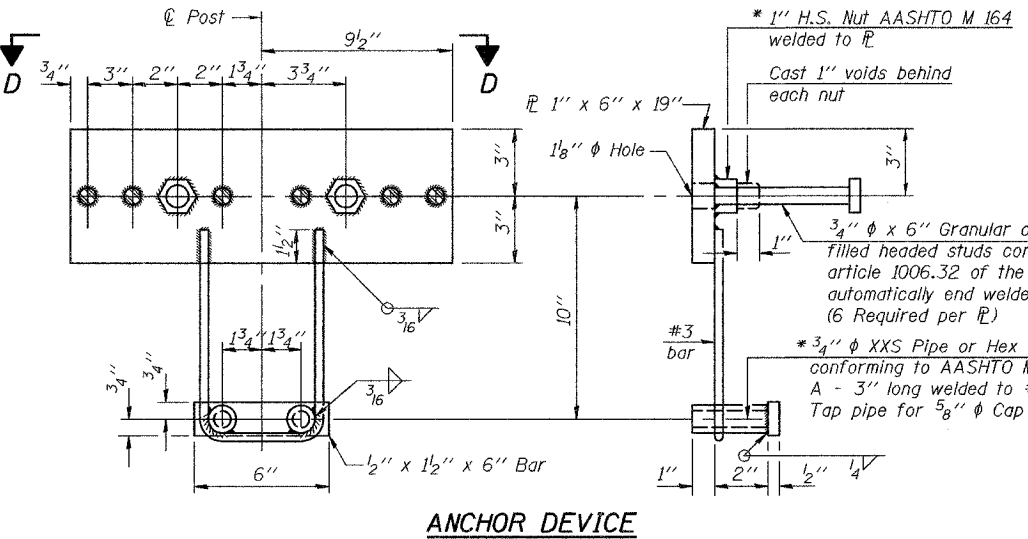
VIEW D-D



VIEW E-E



END OF RAIL DETAILS



ANCHOR DEVICE

NOTES

All field drilled holes shall be coated with an approved zinc rich paint before erection.

For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.

Steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

* The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

BILL OF MATERIAL

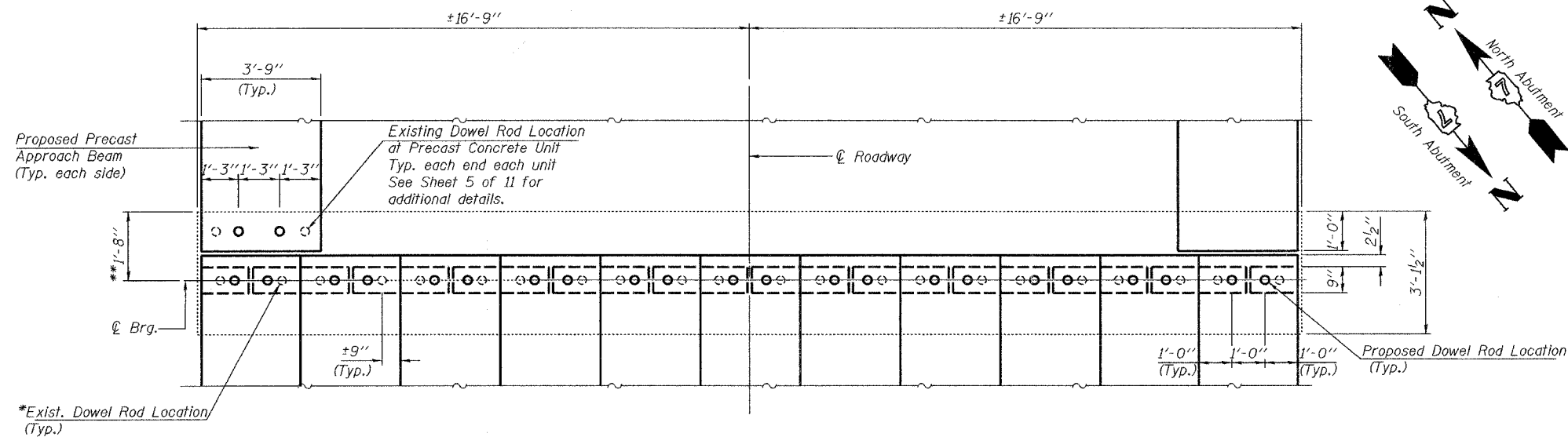
Item	Unit	Quantity
Steel Railing, Type SM	Foot	332

ILLINOIS DEPARTMENT OF TRANSPORTATION	
SHEET TITLE STEEL RAILING, TYPE SM WITH CONCRETE WEARING SURFACE	
PROJECT FAP 332 OVER BONPAS CREEK FAP ROUTE 332 (IL 1) SECTION 101B-1 WABASH COUNTY STATION 149+30 SN 093-0005	PROJECT NO. 06026 DATE 03/15/07 DRAWN BY TFG CHECKED BY BG/CME/MCB DRAWING NO.
COOMBE-BLOXDORF P.C. Engineers / Land Surveyors Springfield, Illinois Design Firm License No. 184-002703	
8 OF 11 SHTS	

PLOT DATE = 02/15/2007
FILE NAME = I:\093-0005-ent-r-r-34-type-sm.dgn
PLOT SCALE = 0.10000 1" = 10'-0"
USER NAME = TFG

* Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

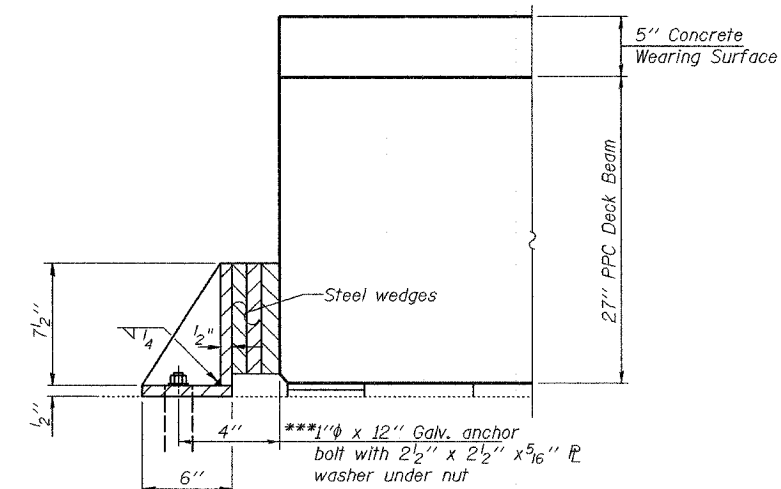
Contract # 74003



ABUTMENT PLAN
(showing dowel rod and beam locations)

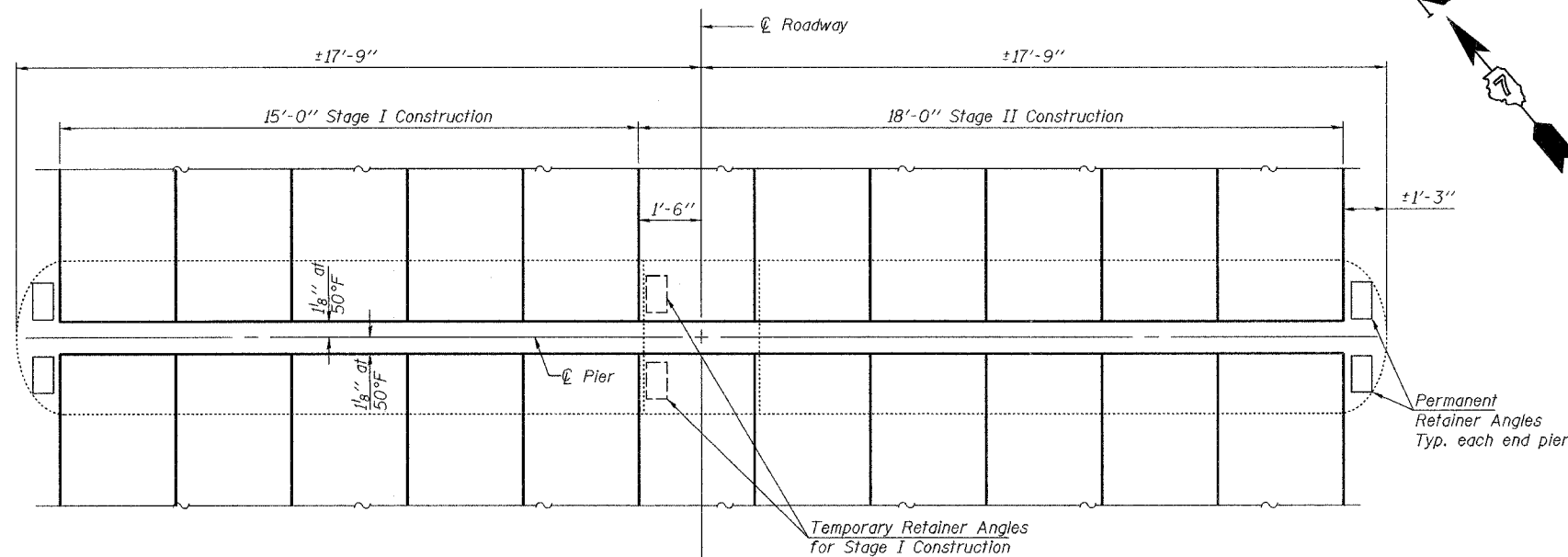
*Burn existing dowel rods flush with top of existing abutment cap. Grind existing dowel rods smooth and seal with epoxy. Cost is included with Removal of Existing Superstructures.

**Dimension may vary to accommodate tolerance in beam lengths.

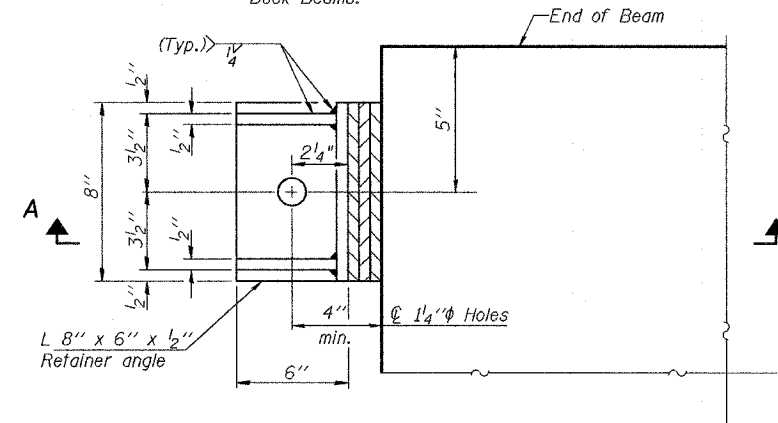


SECTION A-A

***Anchor bolts may be cast into the masonry or approved threaded rod may be placed in drilled holes and grouted in place. Cost included with Precast Prestressed Concrete Deck Beams.



PIER PLAN

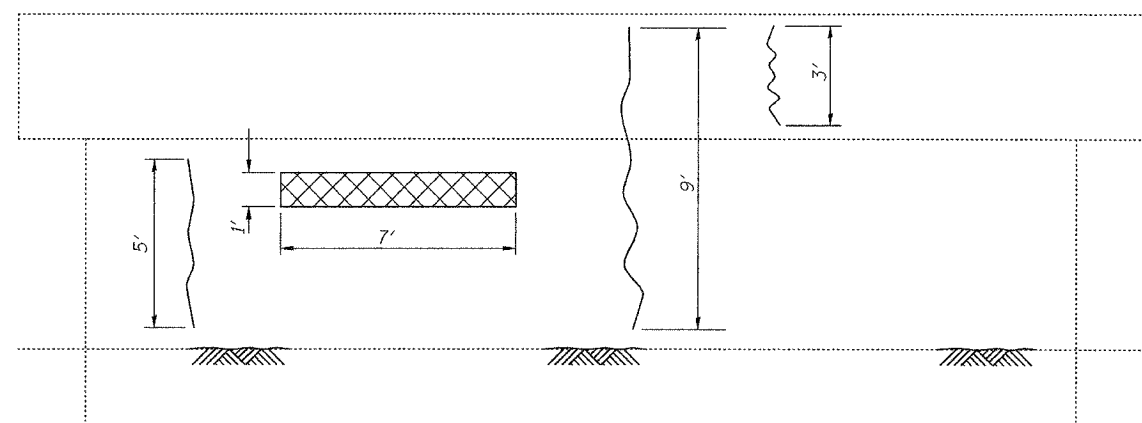


PLAN RETAINER ANGLE
(Temporary and Permanent)

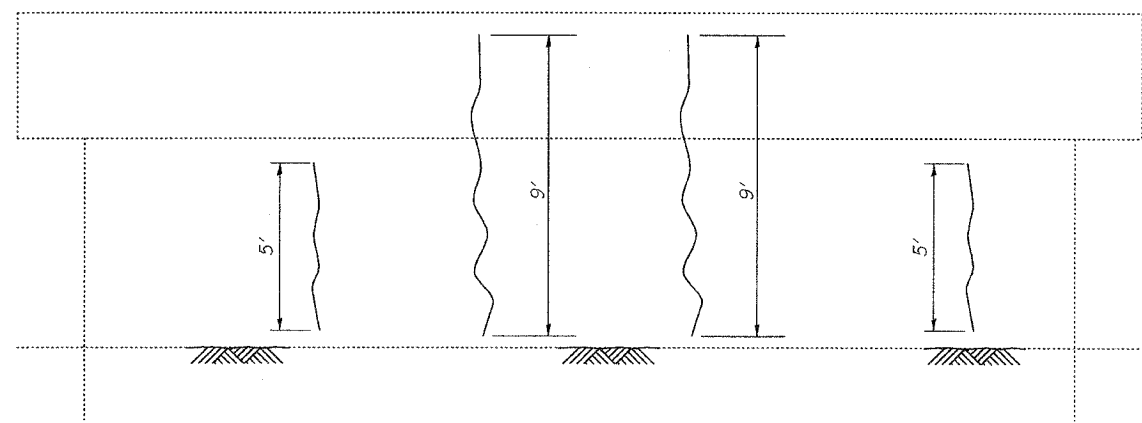
NOTES

Install permanent retainers at pier at west end of cap and temporary retainer at Stage Line prior to grouting Stage I shear keys. After Stage I concrete and concrete wearing surface is poured and cured the temporary retainer shall be removed. Burn existing anchor bolts flush with existing pier surface. Grind anchor bolts smooth and seal with epoxy. Install permanent retainer at east end of pier cap prior to grouting Stage II shear keys. The steel wedges shall be removed after the strip seal has been installed. Cost of retainers, accessories and removal of temporary retainer is included with Precast Prestressed Concrete Deck Beams.
The side retainers shall be galvanized after shop fabrication according to AASHTO M111 and ASTM 385.

ILLINOIS DEPARTMENT OF TRANSPORTATION	
SHEET TITLE	
ABUTMENT & PIER DETAILS	
PROJECT	PROJECT NO.
FAP 332 OVER BONPAS CREEK	06026
FAP ROUTE 332 (IL 1) SECTION 101B-1	SCALE
WABASH COUNTY	DATE
STATION 149+30	03/15/07
SN 093-0005	DRAWN BY
	TFG
	CHECKED BY
	CME/MCB
DRAWING NO.	
COOMBE-BLOXDORF P.C.	
Engineers / Land Surveyors	
Springfield, Illinois	
Design Firm License No. 184-002703	
9	OF 11 SHTS



NORTH ABUTMENT
(Looking North)



SOUTH ABUTMENT
(Looking South)

- Structural Repair of Concrete (Depth Greater Than 5')
- Epoxy Crack Injection

BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Greater Than 5')	Sq. Ft.	7
Epoxy Crack Injection	Foot	45

PLOT DATE = 03/16/07
 FILE NAME = I:\93-005-ent-10-abutment-repair-details.dgn
 PLOT SCALE = 28.0000" / 1"
 USER NAME = TFC

ILLINOIS DEPARTMENT OF TRANSPORTATION	
SHEET TITLE	
ABUTMENT REPAIR DETAILS	
PROJECT	PROJECT NO.
FAP 332 OVER BONPAS CREEK	06026
FAP ROUTE 332 (IL 1) SECTION 101B-1	SCALE
WABASH COUNTY	03/15/07
STATION 149+30	DRAWN BY
SN 093-0005	TFG
	CHECKED BY
	GB/CME/MCB
DRAWING NO.	
COOMBE-BLOXDORF P.C.	
Engineers / Land Surveyors	
Springfield, Illinois	
Design Firm License No. 184-002703	
10	OF 11 SHTS

Contract # 74003

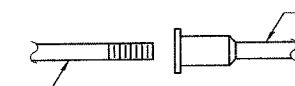
NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
 Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
 All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
 Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity = $1.25 \times f_y \times A_t$
(Tension in kips)
 - ② Minimum *Pull-out Strength = $0.66 \times f_y \times A_t$
(Tension in kips)
- Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_t = Tensile stress area of lapped reinforcement bars.
 * = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8

The diameter of this part is the same as the diameter of the bar spliced.

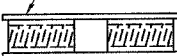


ROLLED THREAD DOWEL BAR



**** ONE PIECE**

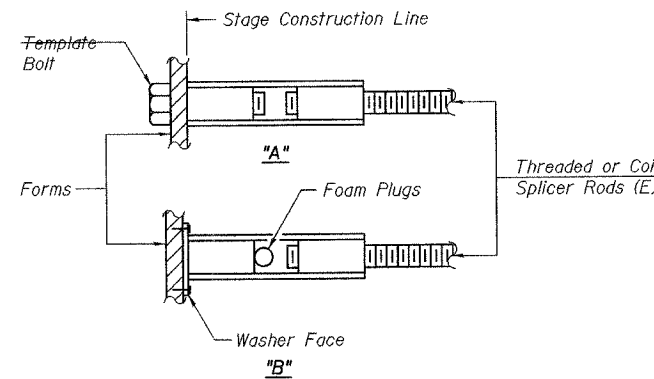
Wire Connector



WELDED SECTIONS

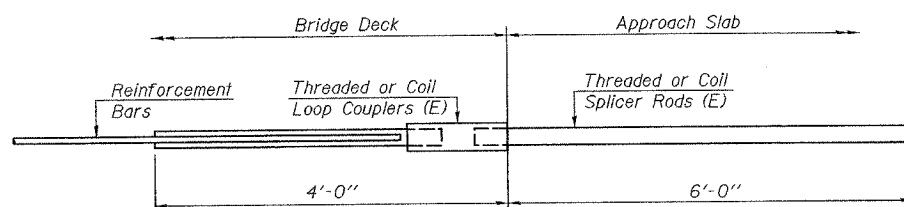
BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



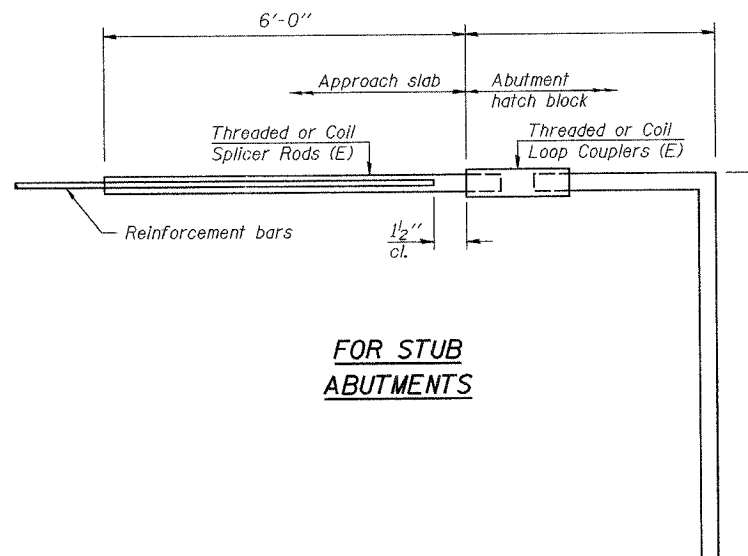
INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt.
 "B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E): Indicates epoxy coating.



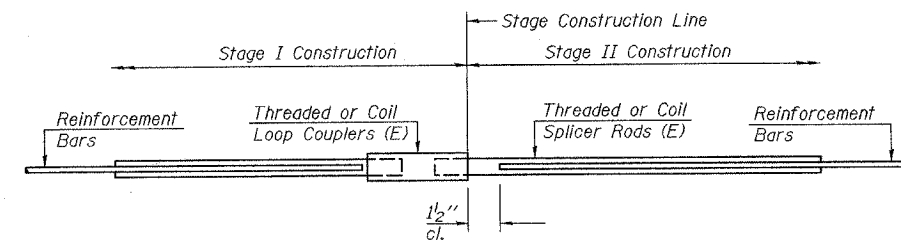
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required =



FOR STUB ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required =



STANDARD

Bar Size	No. Assemblies Required	Location
#4	168	Conc. W.S.

ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET TITLE: BAR SPLICER ASSEMBLY DETAILS

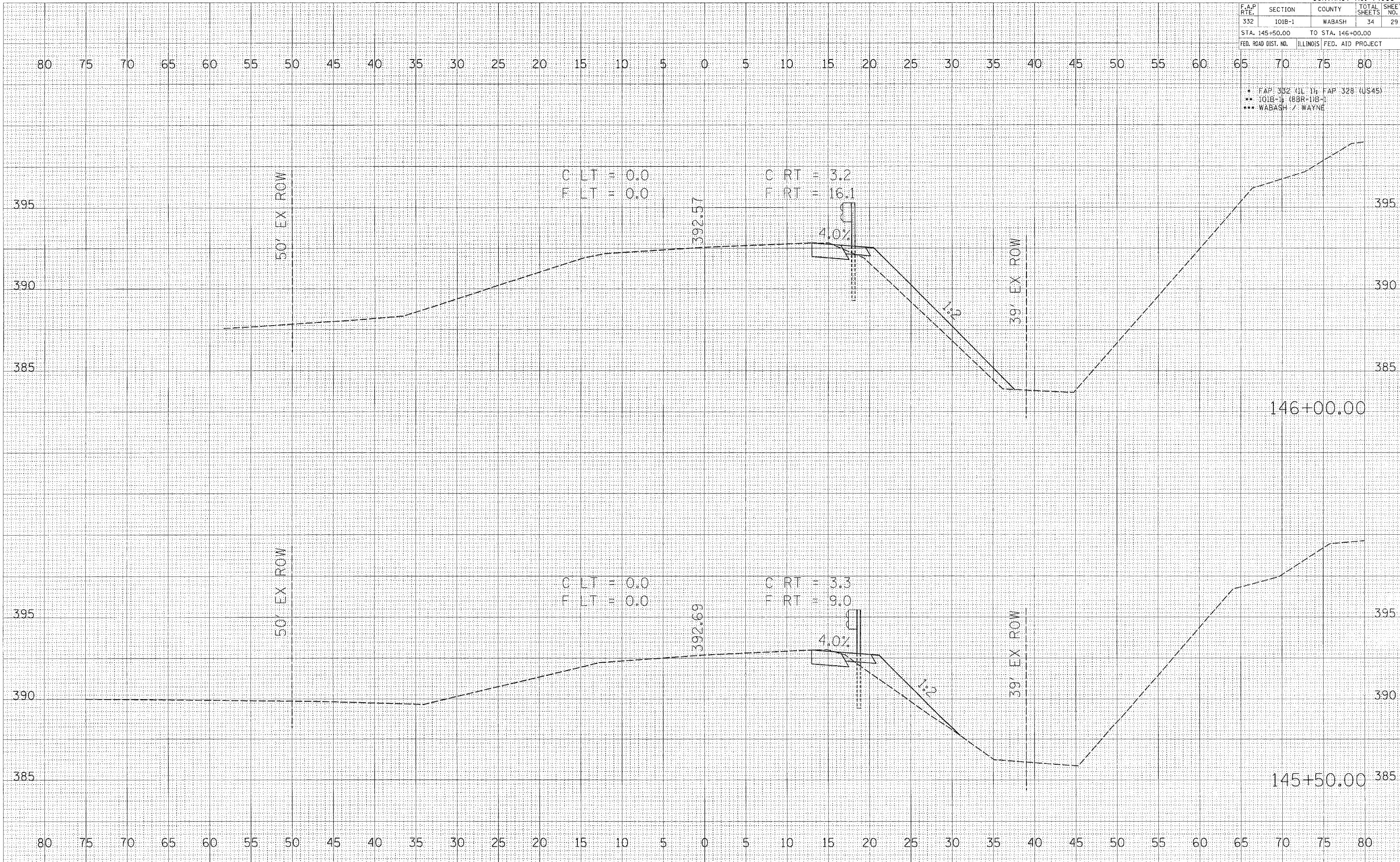
PROJECT: FAP 332 OVER BONPAS CREEK, FAP ROUTE 332 (IL 1) SECTION 101B-1, WABASH COUNTY, STATION 149+30, SN 093-0005

PROJECT NO. 06026
 SCALE: 1/2" = 1'-0"
 DATE: 03/15/07
 DRAWN BY: TFG
 CHECKED BY: GB/CME/MCB
 DRAWING NO.

COOMBE-BLOXDORF P.C.
 Engineers / Land Surveyors
 Springfield, Illinois
 Design Firm License No. 184-002703

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	101B-1	WABASH	34	29
STA. 145+50.00		TO STA. 146+00.00		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

- FAP 332 (IL 1); FAP 328 (US45)
- 101B-1; (BBR-1)B-1
- WABASH / WAYNE



DATE: _____
 BY: _____
 SURVEYED: _____
 SURVEY: _____
 NOTE BOOK: _____
 TEMPLATE: _____
 AREAS: _____
 AREAS CHECKED: _____

DATE: _____
 BY: _____
 ORIGINAL SURVEY: _____
 SURVEY: _____
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 AREAS: _____
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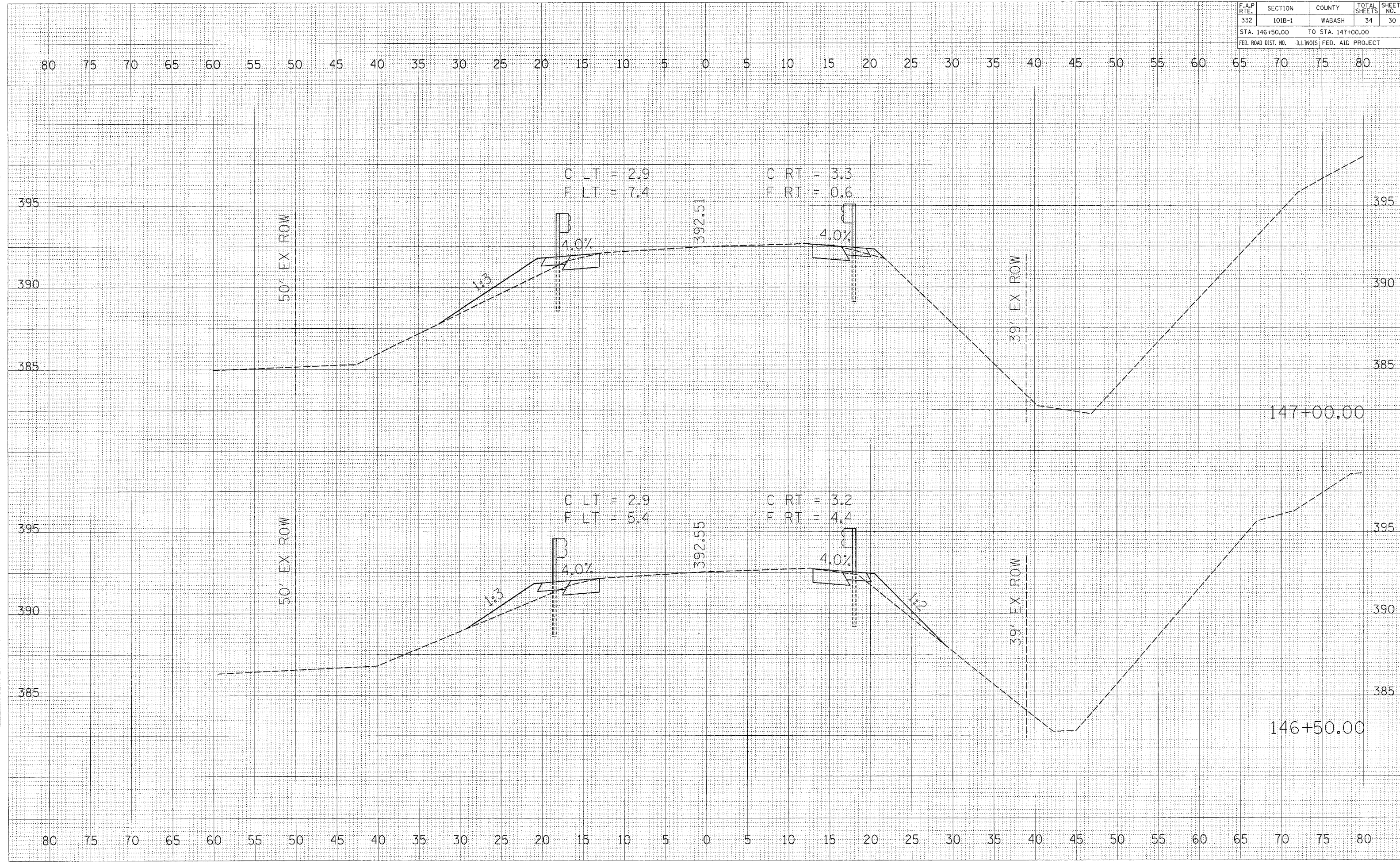
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 USER NAME = koldendorph

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	101B-1	WABASH	34	30
STA. 146+50.00		TO STA. 147+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DATE: _____
 BY: _____
 SURVEYED: _____
 SURVEY: _____
 NOTE BOOK: _____
 TEMPLATE: _____
 AREAS: _____
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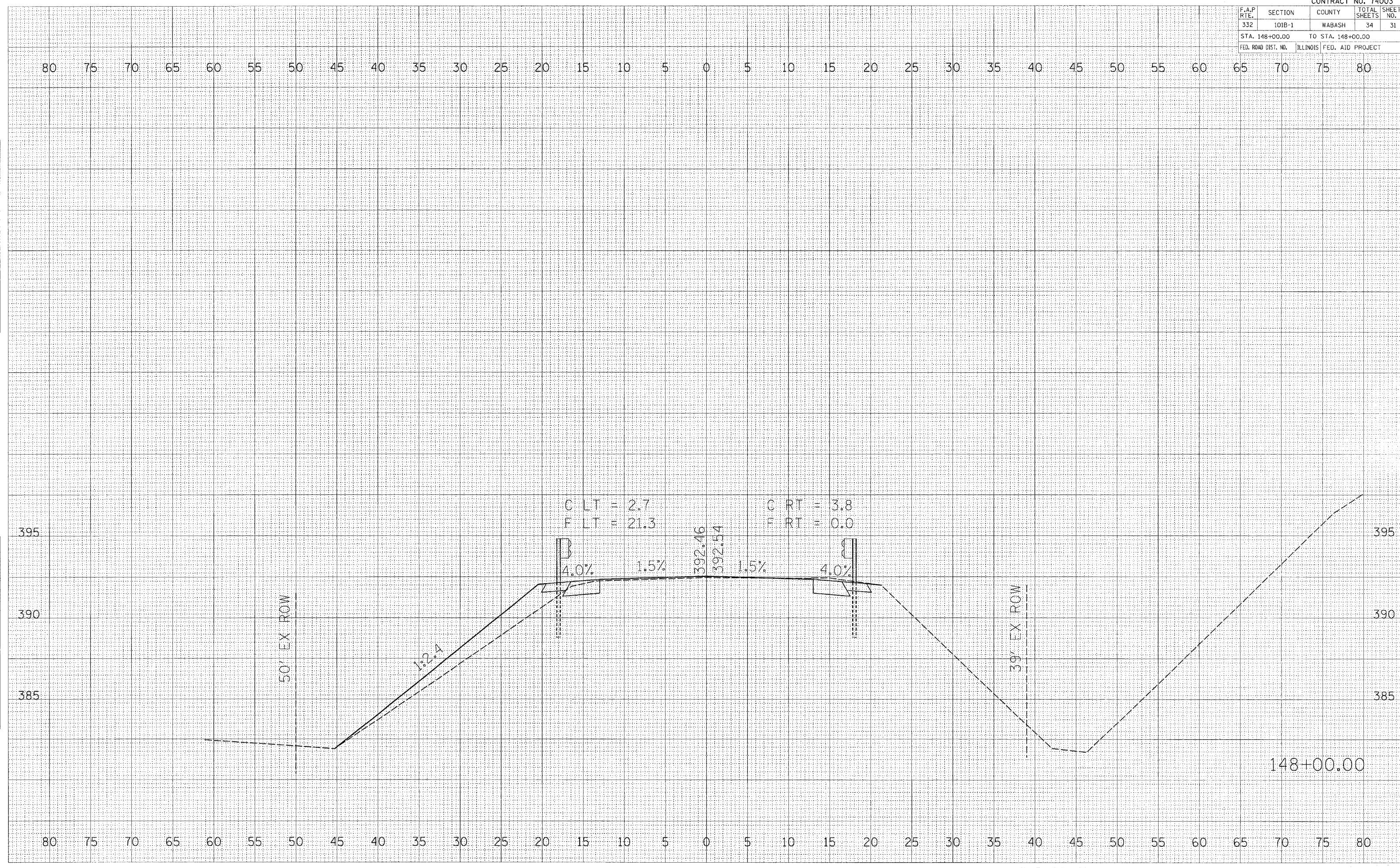
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	101B-1	WABASH	34	31
STA. 148+00.00		TO STA. 148+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	NO.
TEMA/ARE	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	NO.
TEMA/ARE	
AREAS CHECKED	

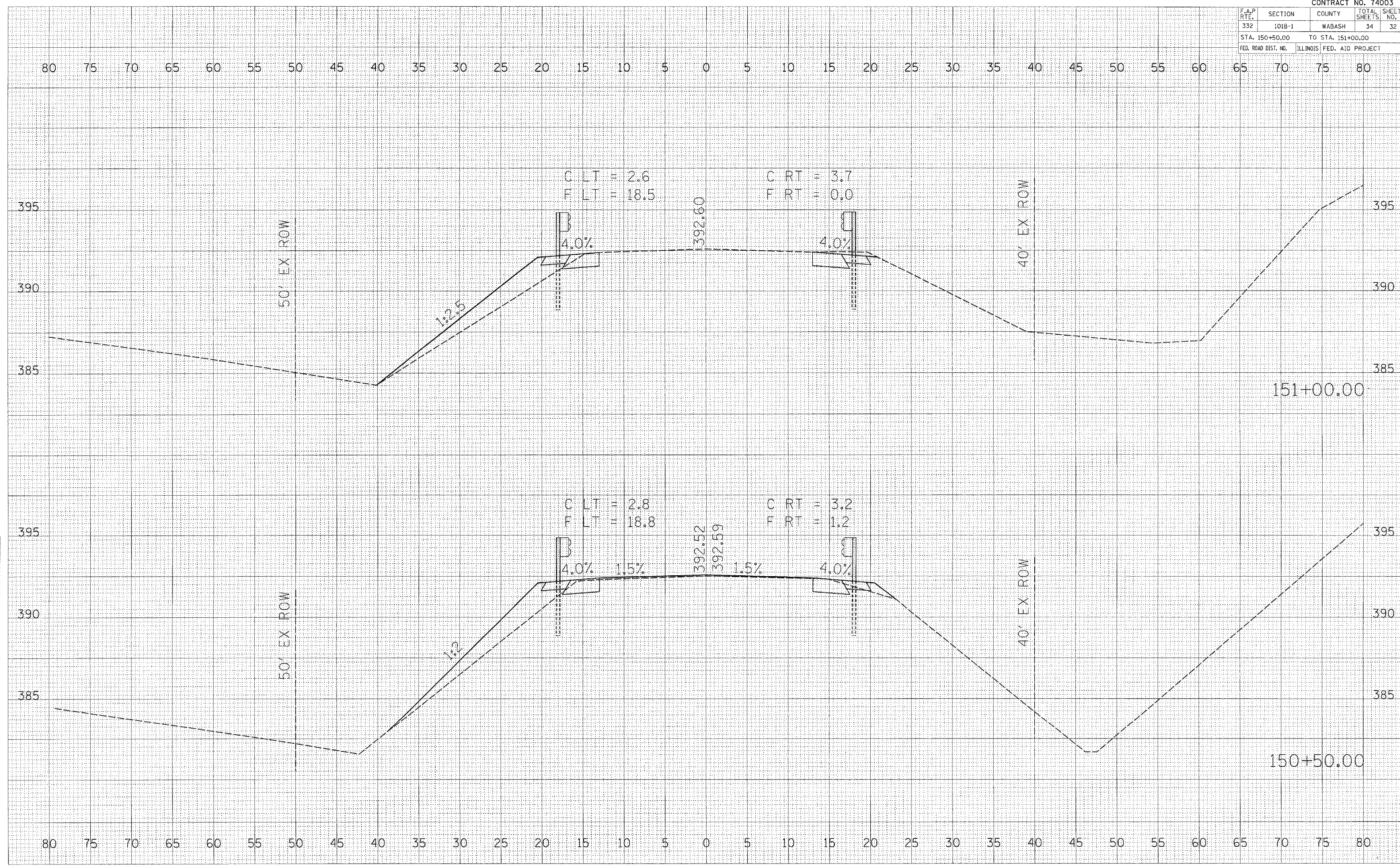


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FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DATE
BY
SURVEYED
SURVEY
NOTE BOOK
TEMPLATE
AREAS
CHECKED

DATE
BY
SURVEYED
SURVEY
NOTE BOOK
TEMPLATE
AREAS
CHECKED

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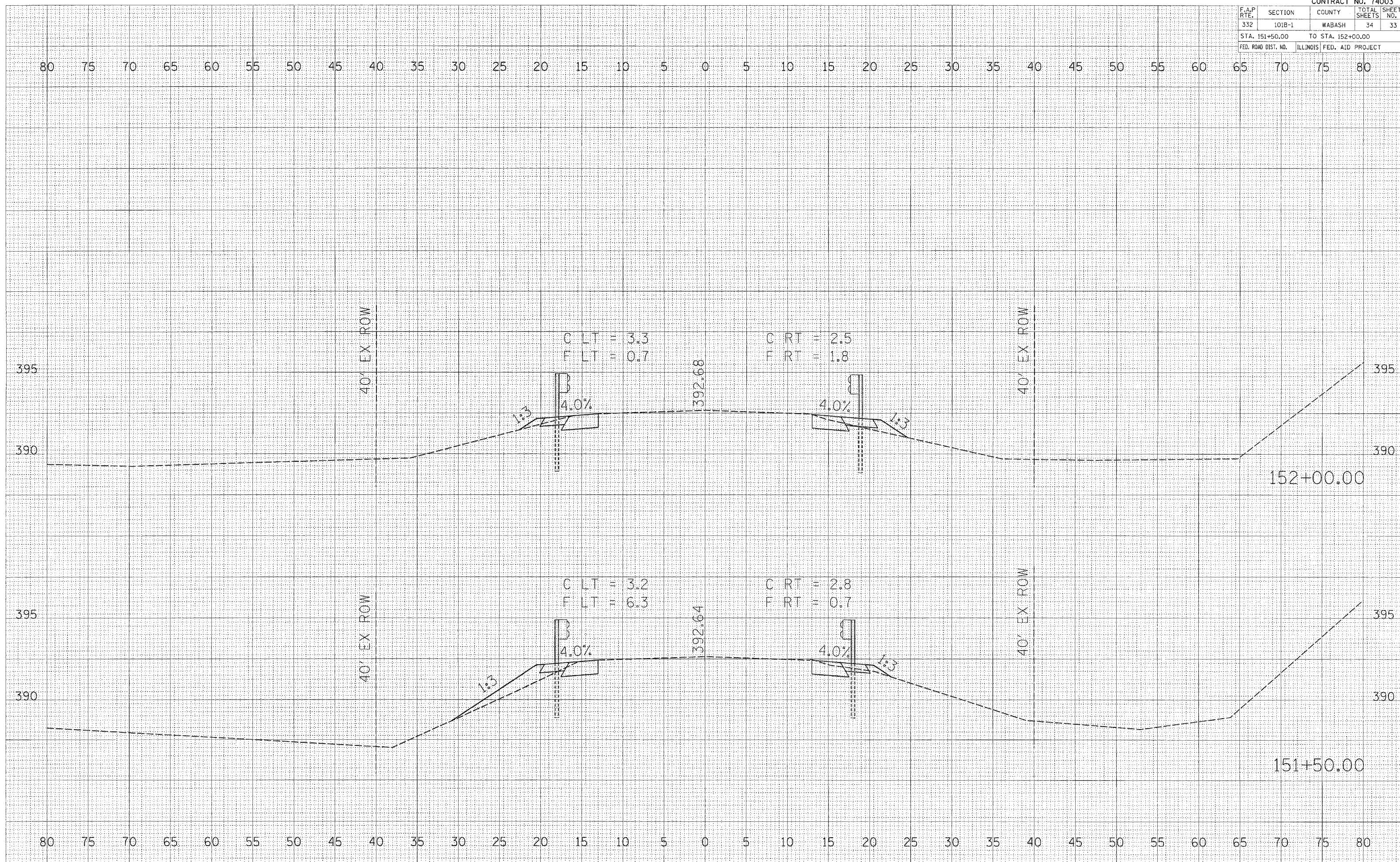


CONTRACT NO. 74003			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
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STA. 151+50.00		TO STA. 152+00.00	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

FINAL SURVEY
 SURVEYED
 PLOTTED
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 AREAS CHECKED

ORIGINAL SURVEY
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 PLOTTED
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	101B-1	WABASH	34	34
STA. 152+50.00		TO STA. 153+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
TEMPLE	
AREAS	
CHECKED	
NO.	

ORIGINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
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