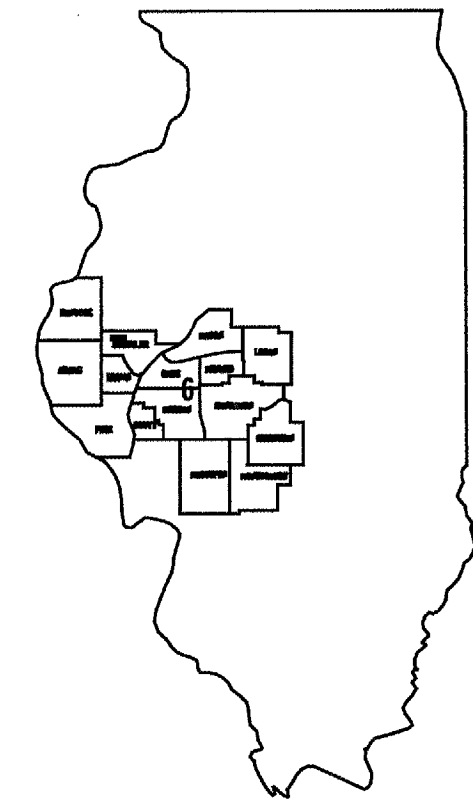
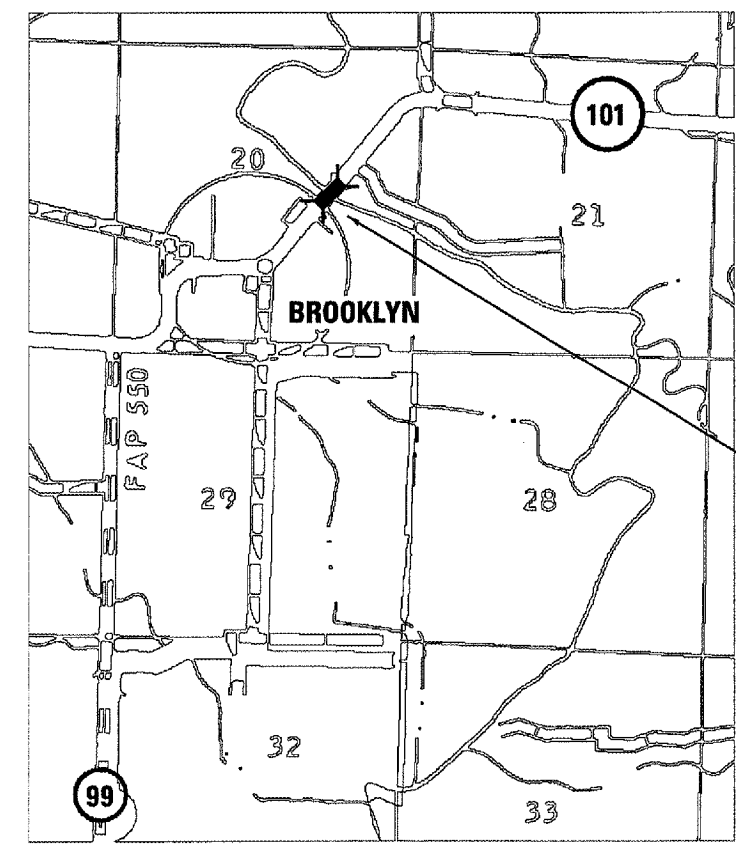


SEE PAGE 2 FOR INDEX OF SHEETS AND HIGHWAY STANDARDS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PLANS FOR PROPOSED
CONTRACT MAINTENANCE**
FAP 713 (IL 101)
OVER LAMOINE RIVER
SECTION (120BR)I-1
SCHUYLER COUNTY
C-96-011-06



LOCATION OF SECTION INDICATED THUS: ■



SN 085-0016

NET LENGTH OF PROJECT: 486 FT = 0.09 MI

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

DESIGN & PLANNING ENGINEER: CECIL DOWNING
BRIDGE INSPECTOR ENGINEER: DAVE COPENBARGER
PHONE: (217) 785-5306

CONTRACT NO. 72A21

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED JANUARY 10 2006

Chris M. Reed
DISTRICT ENGINEER

February 3, 2006

Mike Fine / (P)
ENGINEER OF DESIGN AND ENVIRONMENT

February 3, 2006

Milton R. Sees, P.E. / (P)
DIRECTOR, DIVISION OF HIGHWAYS



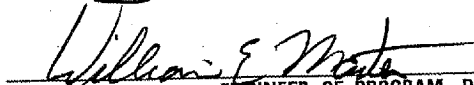
INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL INFORMATION
- 3 SUMMARY OF QUANTITIES
- 4 TRAFFIC STAGING PLAN
- 5 STRIPING DETAIL
- 6 WIDTH RESTRICTION SIGNING PLAN
- 7-9 BRIDGE PLANS
- 9a. LOOP PLACEMENT DETAILS

GENERAL NOTES

STANDARDS

- 701001-01
- 701006-02
- 701201-02
- 701301-02
- 701321-08
- 702001-05

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS DISTRICT 6	
EXAMINED <u>January 9</u> 20 <u>06</u>	
 ENGINEER OF OPERATIONS	
EXAMINED <u>Jan 9</u> 20 <u>06</u>	
 ENGINEER OF PROGRAM IMPLEMENTATION	
EXAMINED <u>JANUARY 6</u> 20 <u>06</u>	
 ENGINEER OF PROGRAM DEVELOPMENT	

GENERAL INFORMATION
FAP 713 (IL 101)
SECTION (120BR)I-1
SCHUYLER COUNTY

Rev.

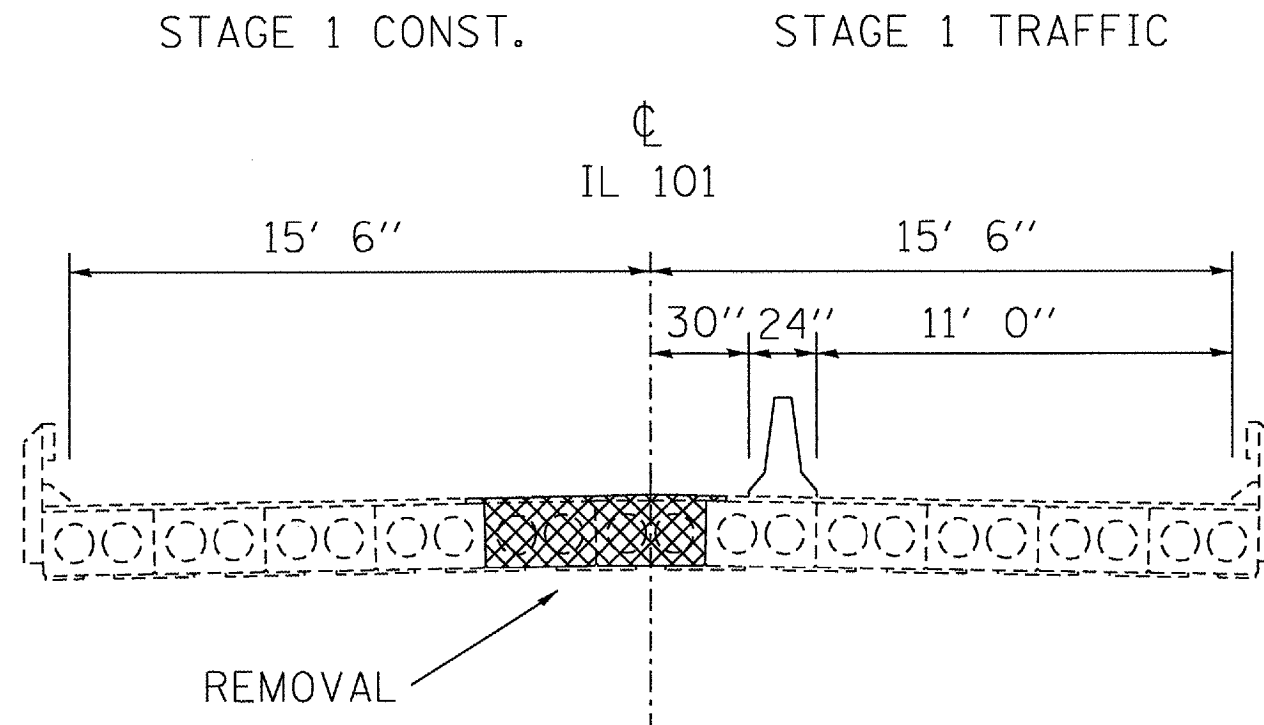
SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	100% STATE - SFTY-2A
			QUANTITY
50102400	CONCRETE REMOVAL	CU YD	0.5
50300300	PROTECTIVE COAT	SQ YD	26
50301200	CONCRETE WEARING SURFACE	SQ YD	26
50400405	<i>PRECAST, PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)</i>	SQ FT	195
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	590
67100100	MOBILIZATION	L SUM	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1
70300230	TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	1800
70400100	TEMPORARY CONCRETE BARRIER	FOOT	380
* 78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	2925
78300105	PAVEMENT MARKING REMOVAL	FOOT	2025
X0320047	REMOVAL OF EXISTING PPC DECK BEAMS	SQ FT	198
X0321781	MECHANICAL SPLICE	EACH	76
X0322752	WORK ZONE PAVEMENT MARKING REMOVAL	FOOT	1800
X7200201	WIDTH RESTRICTION SIGN	L SUM	1
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	2
Δ Z0030250	IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2

* SPECIALTY ITEMS
 Δ SFTY-3N

SUMMARY OF QUANTITIES
 FAP 713 (IL 101)
 SECTION (120BR)I-1
 SCHUYLER COUNTY

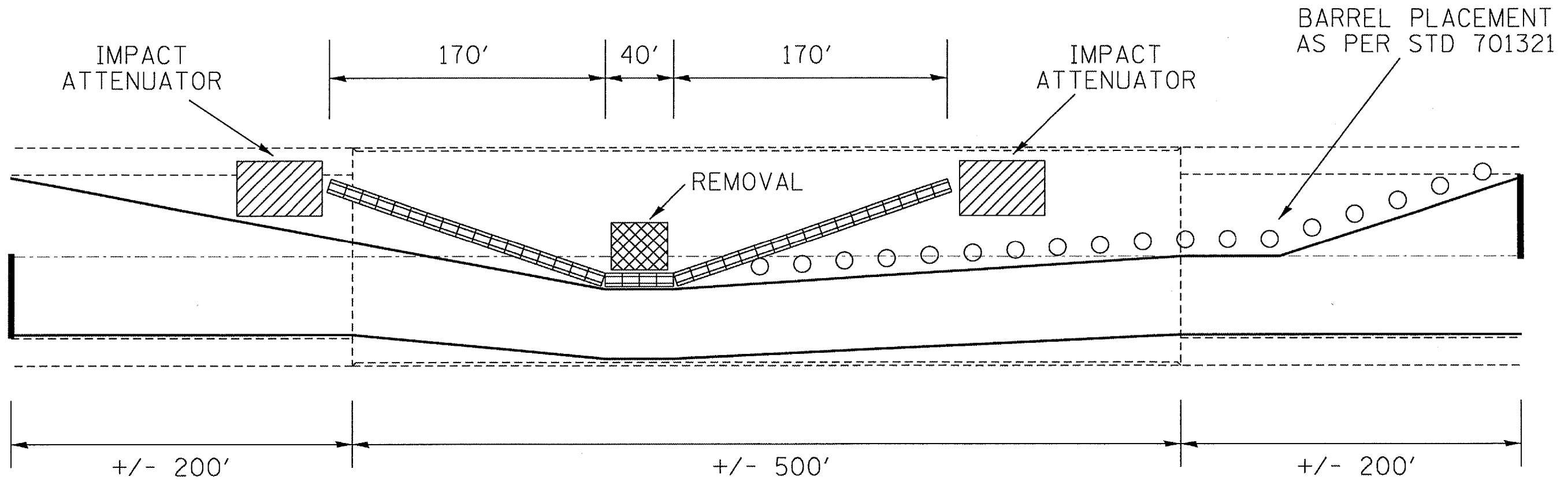
CROSS SECTION - LOOKING NORTHEAST



SEE STD 701321 FOR PLAN
VIEW OF TRAFFIC CONTROL

(NOT TO SCALE)

TRAFFIC STAGING DETAIL
FAP 713 (IL 101)
SECTION (120BR)I-1
SCHUYLER COUNTY

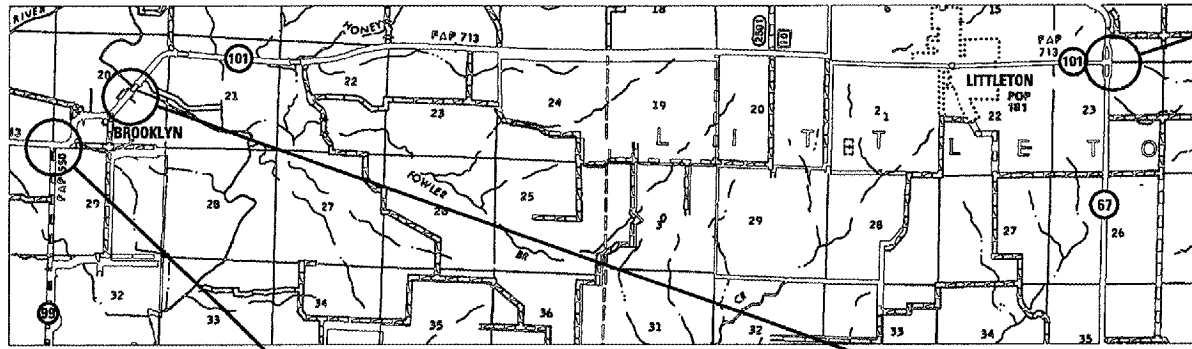


NOTES:

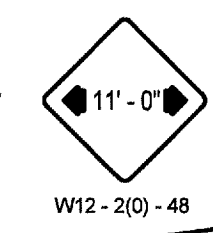
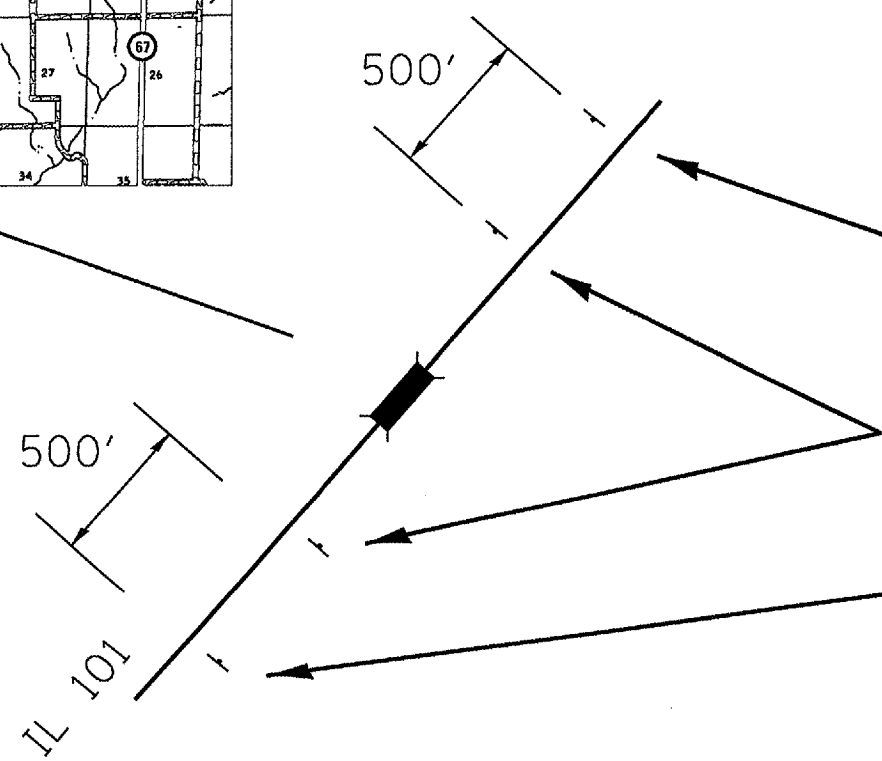
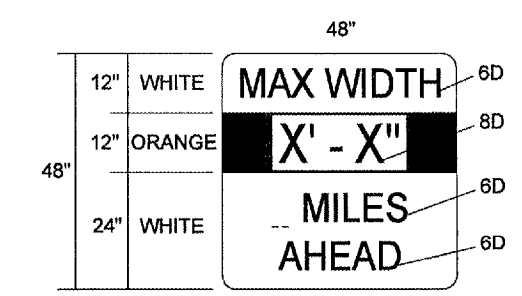
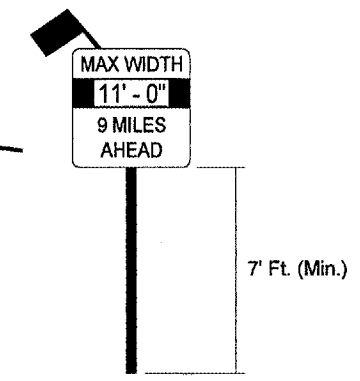
REMOVE CENTER LINE AND NORTHBOUND EDGE LINE THROUGH ENTIRE CONSTRUCTION AREA AND PLACE TEMPORARY MARKINGS AS DETAILED ABOVE. WHEN REPLACING PERMANENT MARKINGS, PAINT BOTH EDGE LINES. PASSING ZONES SHALL MATCH CONDITIONS EXISTING BEFORE INITIAL STRIPING REMOVAL.

(NOT TO SCALE)

STRIPING DETAIL
FAP 713 (IL 101)
SECTION (120BR)I-1
SCHUYLER COUNTY

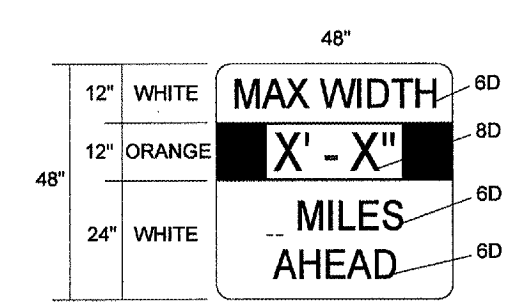
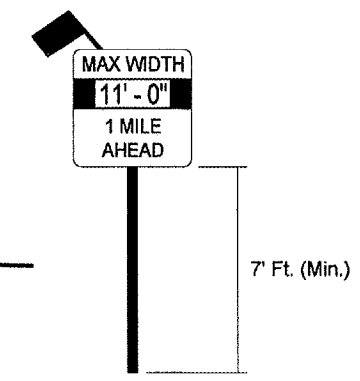


US 67
 IL 101



IL 101

IL 99

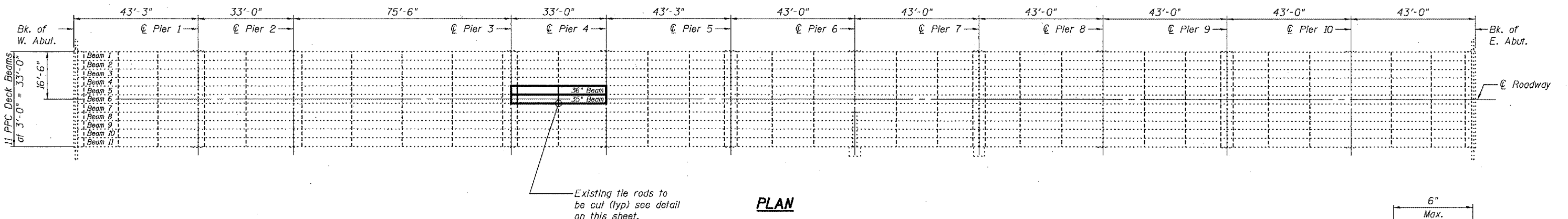
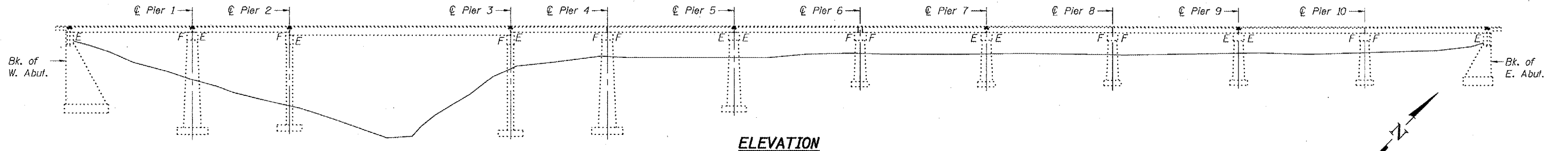


(NOT TO SCALE)
 MAX WIDTH SIGNING
 FAP 713 (IL 101)
 SECTION (120BR)I-1
 SCHUYLER COUNTY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		Schuyler	9	7
FED. ROAD DIST. NO. 7	ALLIANCE	FED. AID PROJECT		

Contract Number: 72A21



DESIGN STRESSES

(New Construction)
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS
f'c = 5,000 psi
f'ci = 4,000 psi
f's = 270,000 (1/2" low relaxation strands)
f'si = 201,960 (1/2" low relaxation strands)

GENERAL NOTES

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

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 P.P.C. Deck Beams".

Reinforcement bars shall conform to the requirements of AASHTO M 31 or M 322 Grade 60.

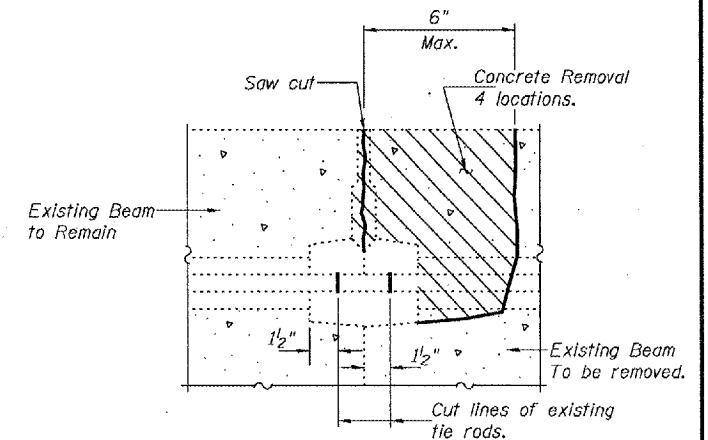
Temporary concrete barrier shall only be anchored into the overlay and not the PPC Deck Beams.

All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1. Cost included with Furnishing and Erecting Structural Steel.

Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.

For stage construction details see Roadway Plans.

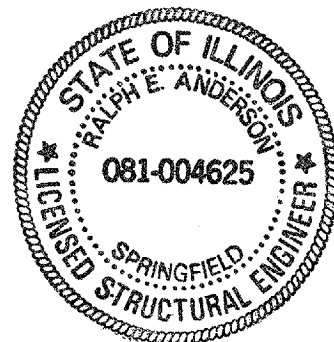
The deck surface shall have its final finish tined according to Article 420.11(e)(1) of the Standard Specifications. Cost included with Concrete Wearing Surface.



TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	0.5
Removal of Existing PPC Deck Beams	Sq. Ft.	198
Concrete Wearing Surface	Sq. Yd.	26
PPC Deck Beams (21" Depth)	Sq. Ft.	195
Protective Coat	Sq. Yd.	26.0
Mechanical Splicers	Each	76
* Asbestos Bearing Pad Removal	Each	2
Reinforcement Bars, Epoxy Coated	Pound	590

*At Pier 3



DESIGNED: Victor H. Veliz
CHECKED: Adrian T. Holloway
DRAWN: [Signature]
CHECKED: VHV/A.T.H.

EXAMINED: John A. Morris
PASSED: Ralph E. Anderson

January 18, 2006

Expires: November 30, 2006

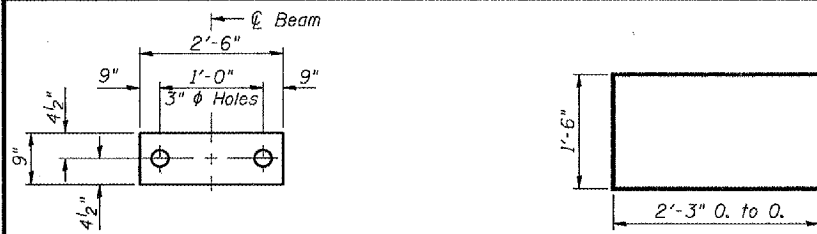
PLAN AND ELEVATION
IL 101
SCHUYLER COUNTY
SN 085-0016

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		Schuyler	9	8
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

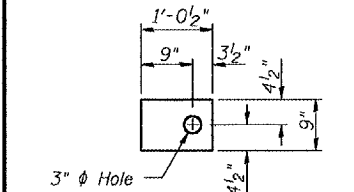
SHEET NO. 2
3 SHEETS

Contract Number: T2A21

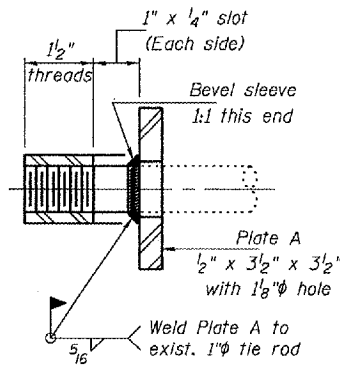


FABRIC BEARING PAD
(Omit holes for Expansion Pads)

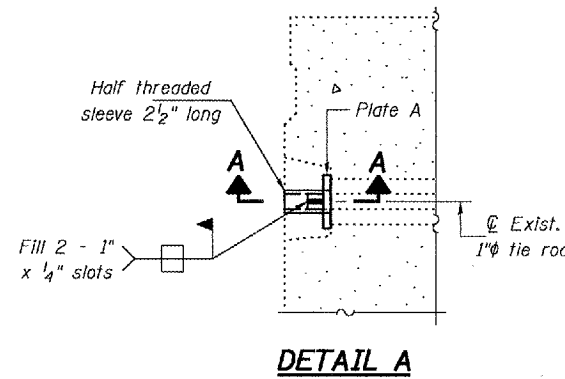
BAR U



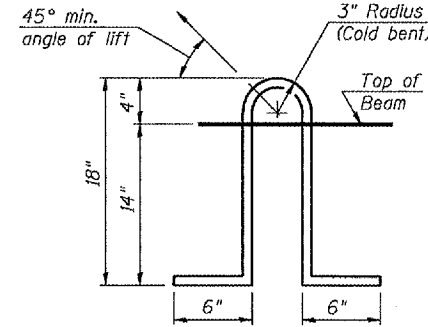
FABRIC ADJUSTING SHIM
(Omit hole for Expansion Shims)



SECTION A-A
(4 Required)



DETAIL A



LIFTING LOOP DETAIL

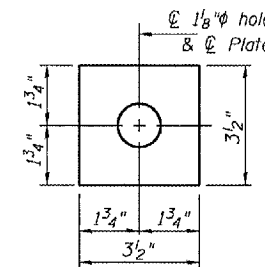
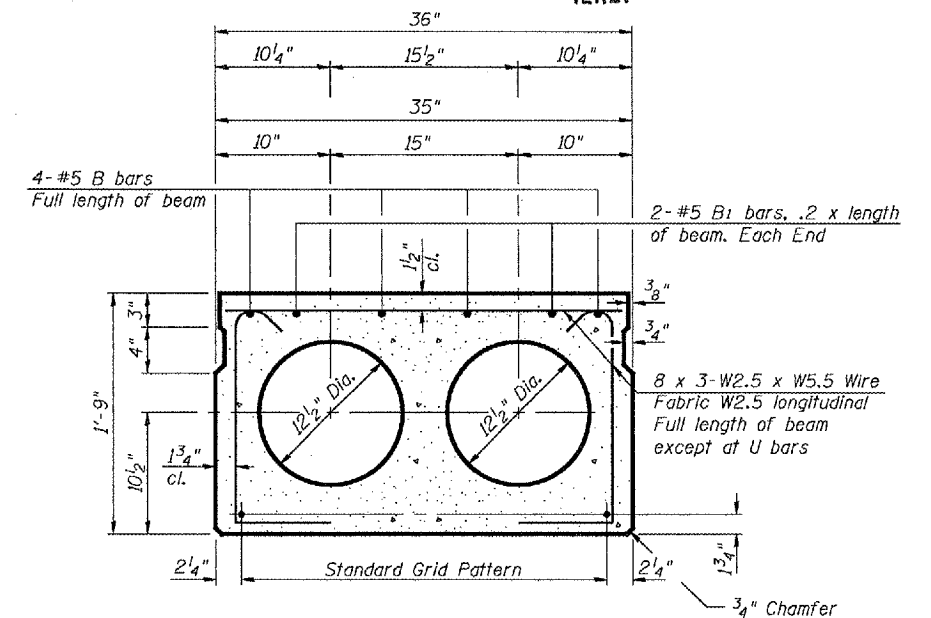


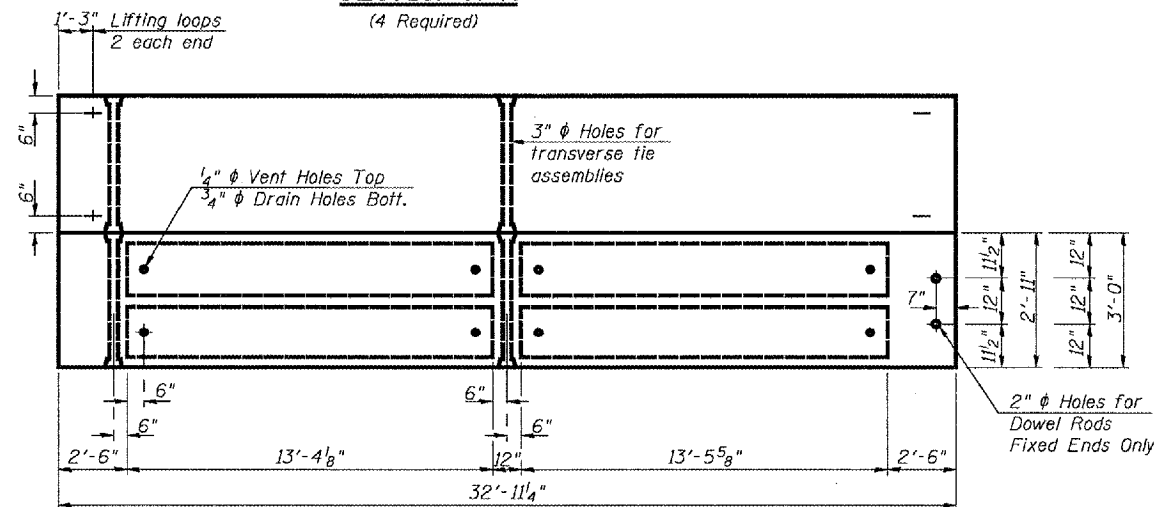
PLATE A
(4 Required)



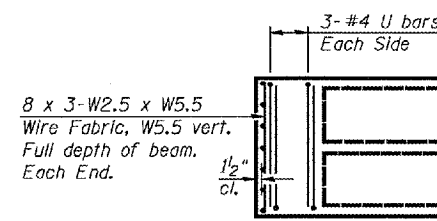
TYPICAL SECTION

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

Note:
Place strands symmetrically about ϕ of beam.

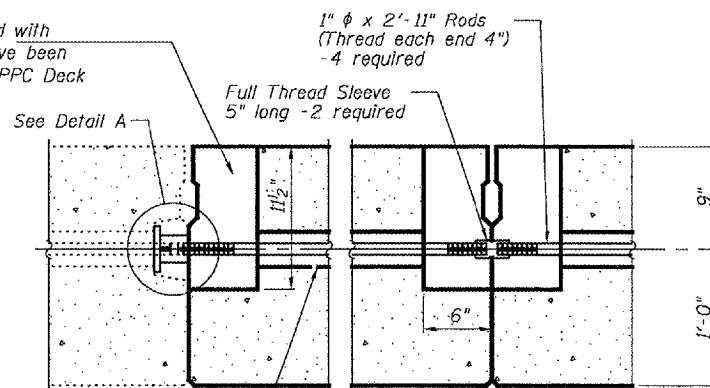


PLAN

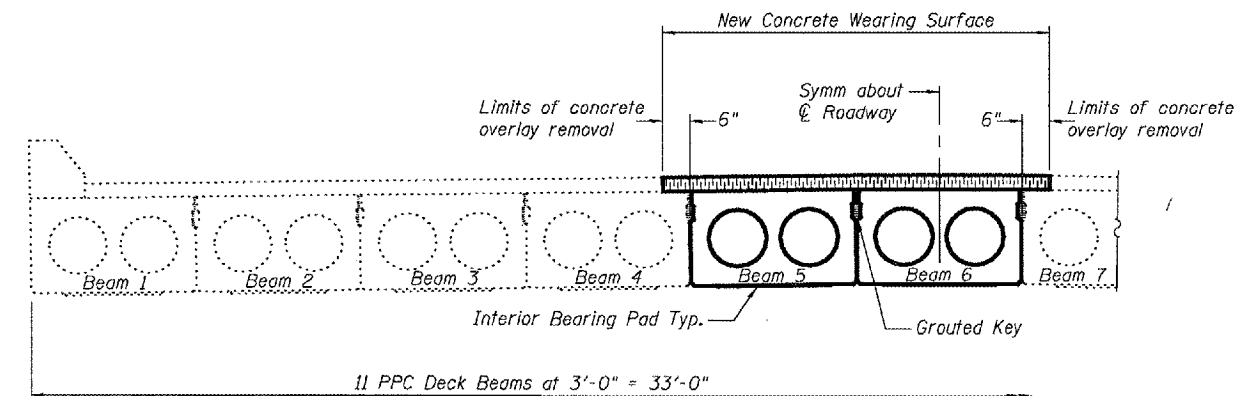


END PLAN

6" x 6" x 11 1/2" Blockout to be filled with Class BD Concrete after Beams have been installed. Quantity included with "PPC Deck Beams (21" Depth)". (8 Required)



TYPICAL TRANSVERSE TIE ASSEMBLY



HALF CROSS SECTION
(Looking North)

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. Non prestressing steel shall conform to AASHTO M31 or M322 Grade 60. The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/8" fabric adjusting shims of the dimensions shown 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, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams. Required Release Strength, f'ci, shall be 4000 p.s.i.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
Precast Prestressed Conc. Deck Bms.			Sq. Ft.	198

BEAM DETAILS
IL 101
SCHUYLER COUNTY
SN 085-0016

DESIGNED	V.H.V.
CHECKED	A.T.H.
DRAWN	Drew Christopher
CHECKED	V.H.V. A.T.H.

January 13, 2006
EXAMINED *John A. Morris*
PASSED *Ralph E. Anderson*

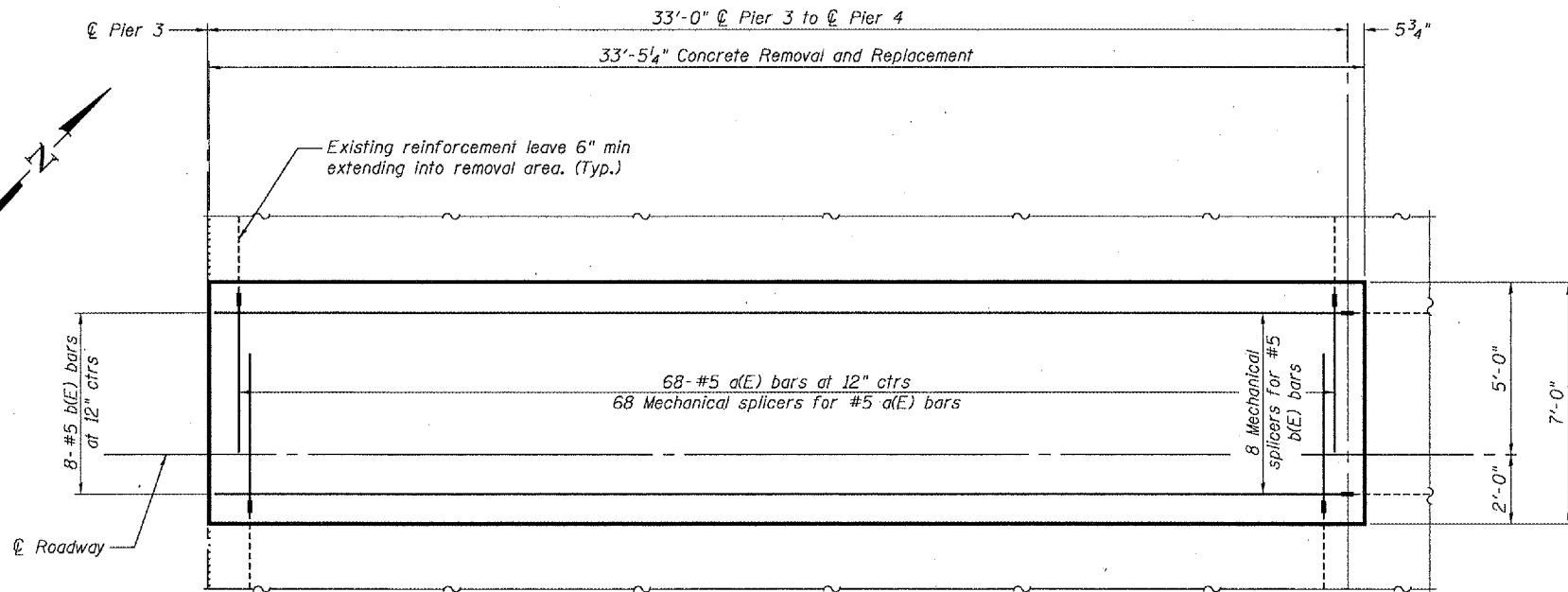
PD-3-S 10-22-04

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		Schuyler	9	9
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

Contract Number: 72A21

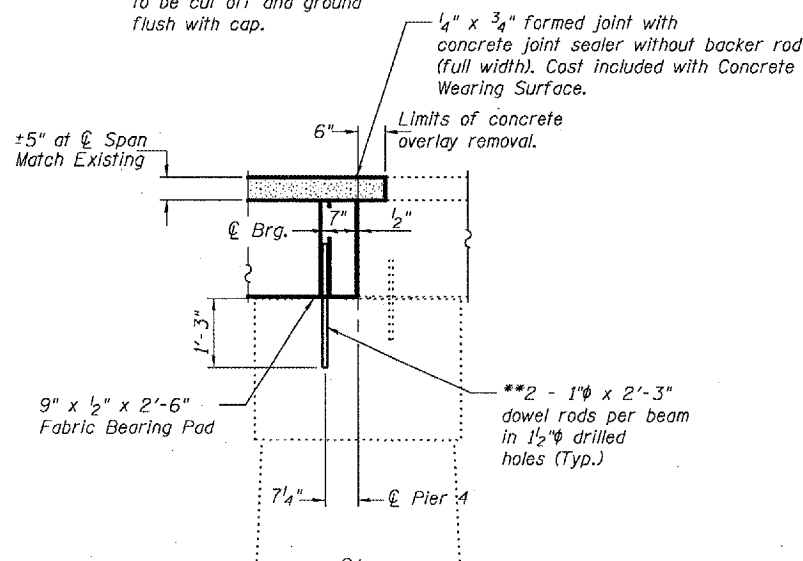
SHEET NO. 3
3 SHEETS



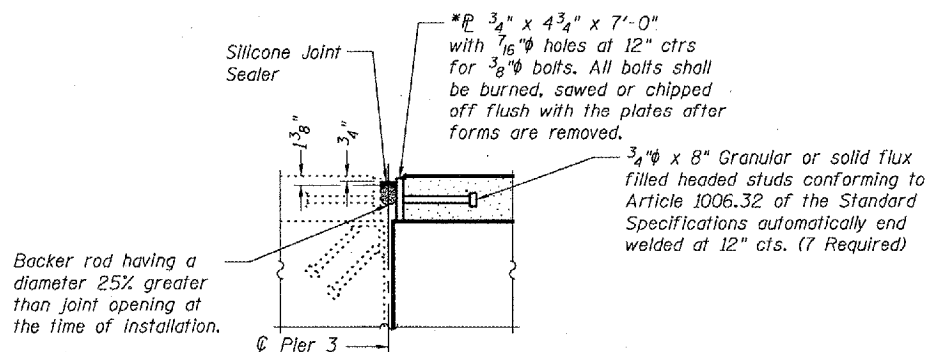
Min Bar lap
#5 = 2'-2"

PARTIAL OVERLAY PLAN

**Existing dowel rods are to be cut off and ground flush with cap.

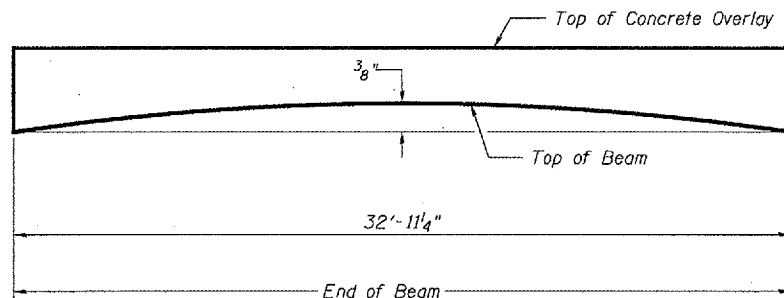


TYPICAL SECTION PIER 4

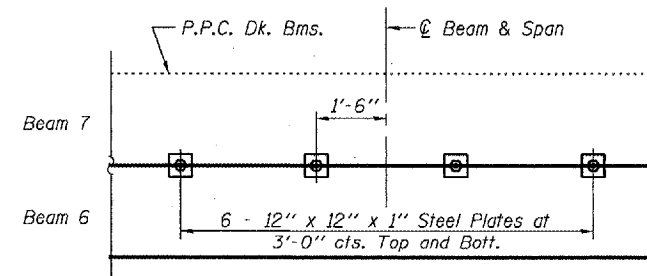


ENLARGED DETAIL B

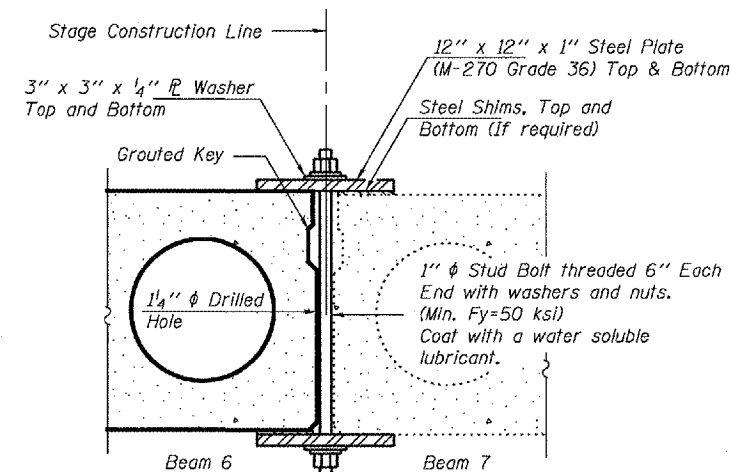
Cost of @ and studs is included with Concrete Wearing Surface.
* Seal space between existing and new @'s with silicone sealant suitable for Structural Steel. Cost of silicone sealant is included with Concrete Wearing Surface.



ANTICIPATED INITIAL CAMBER DIAGRAM



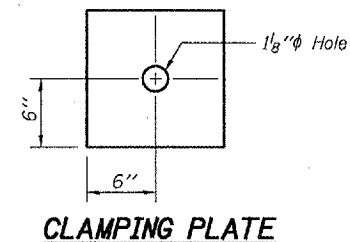
PLAN



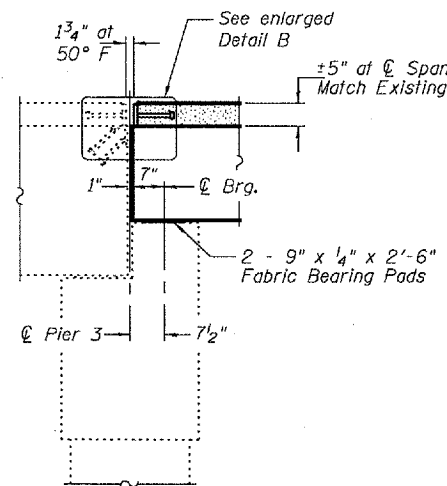
SECTION

SHEAR KEY CLAMPING DETAILS AT STAGE CONST. JT.

See Special Provisions for Stage Construction of Precast Prestressed Concrete Deck Beams. Cost included with "Precast Prestressed Concrete Deck Beams". For Stage Construction Details see roadway plans.



CLAMPING PLATE



TYPICAL SECTION AT PIER 3

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	68	#5	4'-6"	—
b(E)	8	#5	32'-9"	—
Concrete Removal		Cu. Yd.	0.5	
Concrete Wearing Surface		Sq. Yd.	26	
Reinforcement Bars, Epoxy Coated		Lbs.	590	

Reinforcement bars designated (E) shall be epoxy coated.

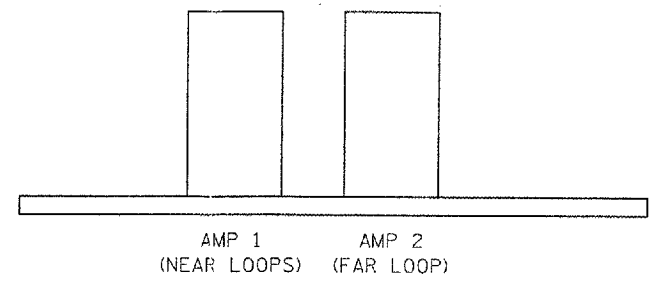
PLAN AND ELEVATION

IL 101
SCHUYLER COUNTY
SN 085-0016

DESIGNED	V.H.V.
CHECKED	A.T.H.
DRAWN	Drew Christopher
CHECKED	V.H.V. A.T.H.

EXAMINED	January 13, 2006
	John A. Morris ENGINEER OF STRUCTURAL SERVICES
PASSED	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

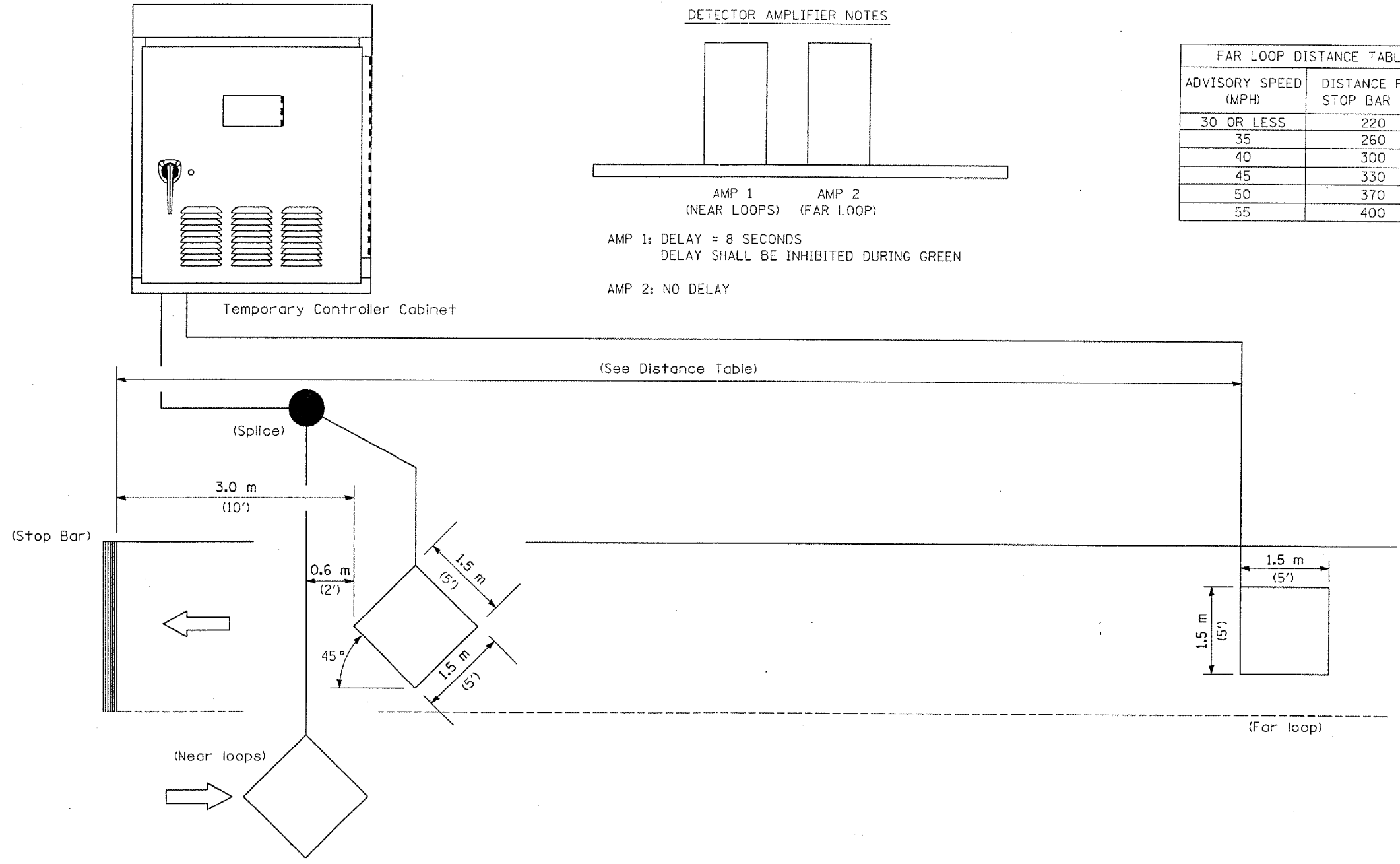
DETECTOR AMPLIFIER NOTES



AMP 1: DELAY = 8 SECONDS
 DELAY SHALL BE INHIBITED DURING GREEN

AMP 2: NO DELAY

ADVISORY SPEED (MPH)	DISTANCE FROM STOP BAR (FT.)
30 OR LESS	220
35	260
40	300
45	330
50	370
55	400



NOTE: All loops centered in lane.

INDUCTION LOOP DETECTOR

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TEMPORARY BRIDGE TRAFFIC SIGNAL
 LOOP PLACEMENT DETAIL SHEET

DRAWN BY KDA
 CHECKED BY
 DATE