

DESIGNER: CLARK JONES
PHONE: (309)671-3452

PROJECT ENGINEER: JIM MILLER
PHONE: (309)671-3451

CONTRACT NO. 68618

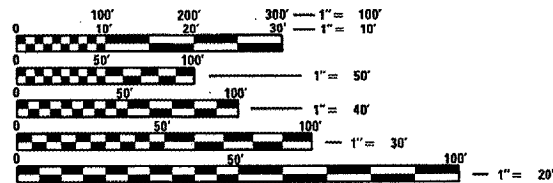
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
474	(72-2HB)I	PEORIA	26	1

INDEX OF SHEETS:

1. COVER SHEET
2. GENERAL NOTES
- 3~5. SUMMARY OF QUANTITIES
6. TYPICALS
- 7~8. SCHEDULE OF QUANTITIES
9. GENERAL PLAN LOCATION
- 10~15. TRAFFIC STAGING SHEETS
16. PLAN AND ELEVATION
- 17~18. STAGE REMOVAL & CONSTRUCTION
- 19~20. ABUTMENT CONCRETE REMOVAL
- 21~22. ABUTMENT CONCRETE REPLACEMENT
- 23~26. DETAILS

STANDARDS:

- 701001-01 701401-03 704001-03
701006-02 701402-05
701400-02 702001-06

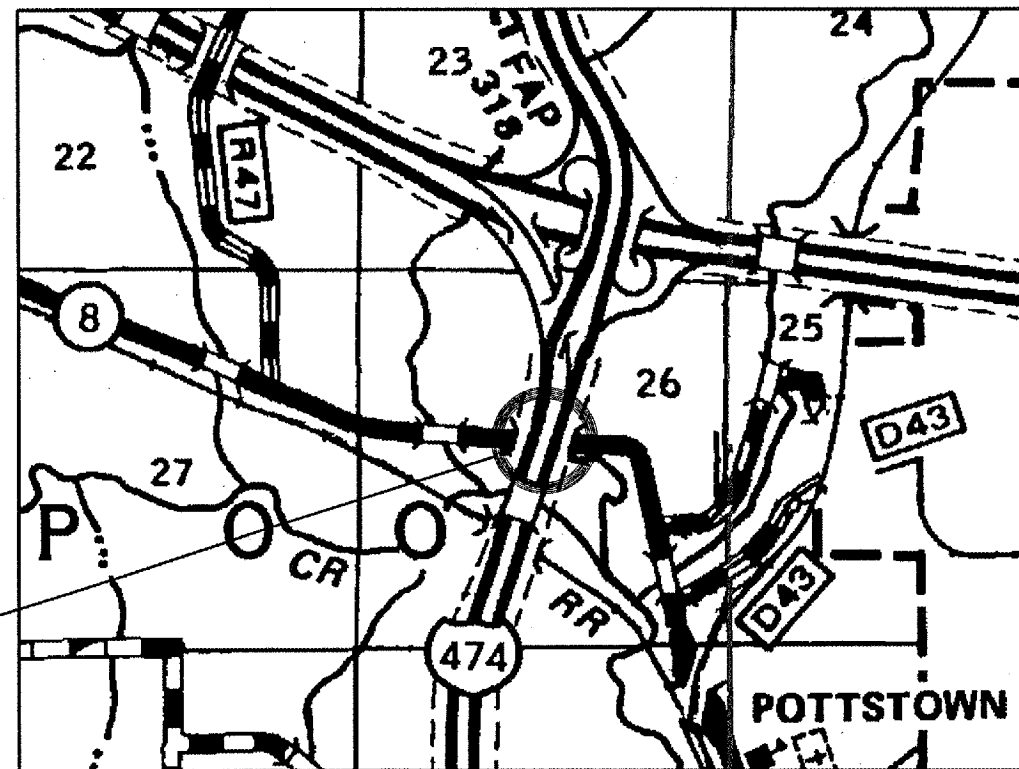


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

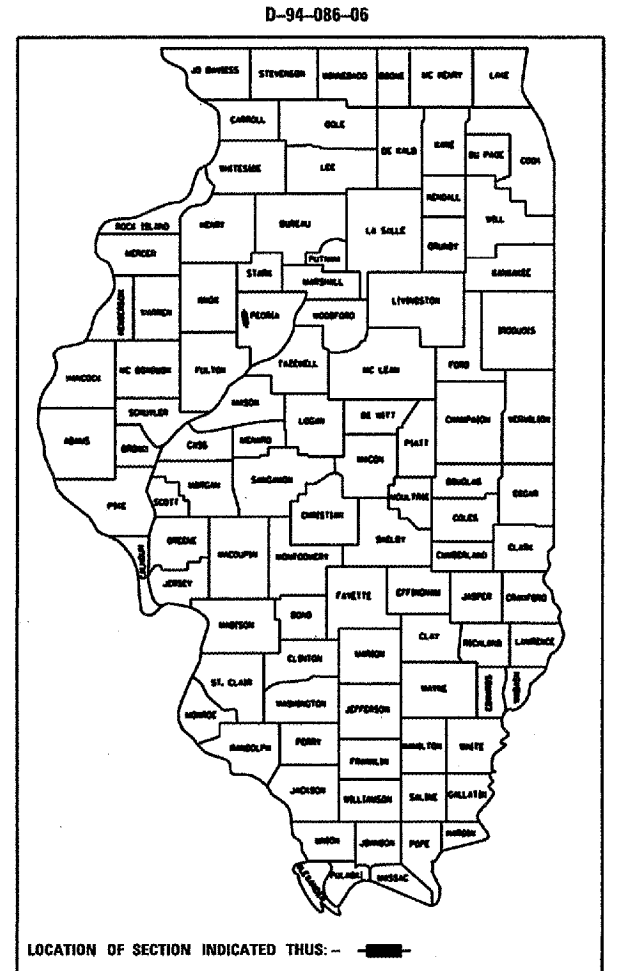
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PROPOSED
HIGHWAY PLANS**

FAI ROUTE 474 (I-474)
SECTION (72-2HB)I
PEORIA COUNTY
C-94-105-06



LOCATION MAP

PROJECT CONSISTS OF ENTRANCE RAMP 'B' GORE REMOVAL & REPLACEMENT AND BRIDGE DECK & PJS JOINT REMOVAL & REPLACEMENT WITH STRIP SEALS ON PARALLEL STRUCTURES SN 072-0112(EB) & 072-0113(WB) CARRYING I-474 OVER IL. 8



LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED: November 30, 2006
J. E. Crone
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 8, 2006
C. E. Hamm
INTERIM ENGINEER OF DESIGN AND ENVIRONMENT

December 8, 2006
Milton R. Sees P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
474	(72-2HB)	PEORIA	26	2
STA. 56+57.18		TO STA. 58+86.73		
FED. ROAD DIST. NO. 4		ILLINOIS FED. AID PROJECT		

COMMITMENTS

NO COMMITMENTS HAVE BEEN MADE FOR THIS PROJECT.

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO 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.

HOT-MIX ASPHALT REQUIREMENTS

Mixture Use(s):	Gore Surface Course	Gore Binder Course
AC/PG:	PG64-22	PG64-22
RAP% (Max):**	10%	15%
Design Air Voids:	3.0% @ N=70	4.2% @ N=70
Mixture Composition: (Graduation Mixture)	IL 9.5 or IL 12.5	IL 19.0
Friction Aggregate:	Mixture D (Dolomite only)	N.A.

SN072-0112/072-0113
I-474 over IL. 8

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

SCALE: VERT.
HORIZ.
DATE 07-07-2006

DRAWN BY CEJ
CHECKED BY

PLOT DATE = *DATE*
 FILE NAME = *FILE*
 PLOT SCALE = *SCALE*
 REFERENCE = *REF*

F.A.I. RITE	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
474	172-2HB1	PEORIA	26 3
STA. 56+57.18		TO STA. 58+86.79	
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT	

SUMMARY OF QUANTITIES

100% STATE SAFETY - 2A
PEORIA COUNTY

CODE NO.	ITEM	UNIT	URBAN	TOTAL
31100100	SUB-BASE GRANULAR MATERIAL, TYPE A	TON	106	106
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	312	312
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX 'D', N70	TON	104	104
44000915	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	2700	2700
44004250	PAVED SHOULDER REMOVAL	SQ YD	1816	1816
50102400	CONCRETE REMOVAL	CU YD	36.2	36.2
50300255	CONCRETE SUPERSTRUCTURE	CU YD	36.2	36.2
50300260	BRIDGE DECK GROOVING	SQ YD	2670	2670
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4860	4860
50800515	BAR SPLICERS	EACH	40	40
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	2	2

PLOT DATE
PLOT NAME
PLOT SCALE
REFERENCE

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		SUMMARY OF QUANTITIES

SCALE: VERT. DRAWN BY CEJ
 HORIZ. CHECKED BY
 DATE 07-07-2006

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
474	I72-2HBI	PEORIA	26	4
STA. 56+57.18		TO STA. 58+86.79		
FED. ROAD DIST. NO. 4		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

100% STATE SAFETY - 2A
PEORIA COUNTY

CODE NO.	ITEM	UNIT	URBAN	TOTAL
67100100	MOBILIZATION	LSUM	1.0	1.0
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	LSUM	1.0	1.0
70100805	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	LSUM	1.0	1.0
70101605	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)	EACH	1.0	1.0
70300220	TEMPORARY PAVEMENT MARKING-LINE 4"	FOOT	1000	1000
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	800	800
70301000	WORKZONE PAVEMENT MARKING REMOVAL	SQ FT	1500	1500
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1392	1392
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1392	1392
78005110	PAVEMENT EPOXY MARKING - LINE 4"	FOOT	800	800
78005130	PAVEMENT EPOXY MARKING - LINE 6"	FOOT	600	600

PLOT DATE * DATE
 FILE NAME * FILEL
 PLOT SCALE * SCALE
 REFERENCE * REF

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: VERT. DRAWN BY CEJ
 HORIZ. CHECKED BY
 DATE 07-07-2006

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
474	(72-2HB)	PEORIA	26	5
STA. 56+57.18		TO STA. 58+85.79		
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

SUMMARY OF QUANTITIES

100% STATE SAFETY - 2A
PEORIA COUNTY

CODE NO.	PAVEMENT	ITEM	UNIT	URBAN	TOTAL
78005140	EPOXY MARKING - LINE	8''	FOOT	800	800
X7015005	CHANGEABLE MESSAGE SIGN		CAL DA	25	25
X0325294	PREFORMED JOINT STRIP SEAL		FOOT	284	284
Z0006100	BRIDGE DECK LATEX CONCRETE OVERLAY		SQ YD	2700	2700
⊙ Z0030250	IMPACT ATTENUATORS, TEMPORARY(NON-REDIRECTIVE), TEST LEVEL 3		EACH	2	2
⊙ Z0030350	IMPACT ATTENUATORS, RELOCATE(NON-REDIRECTIVE), TEST LEVEL 3		EACH	2	2
Z0006204	BRIDGE DECK HYDRO-SCARIFICATION	1/2''	SQ YD	2700	2700

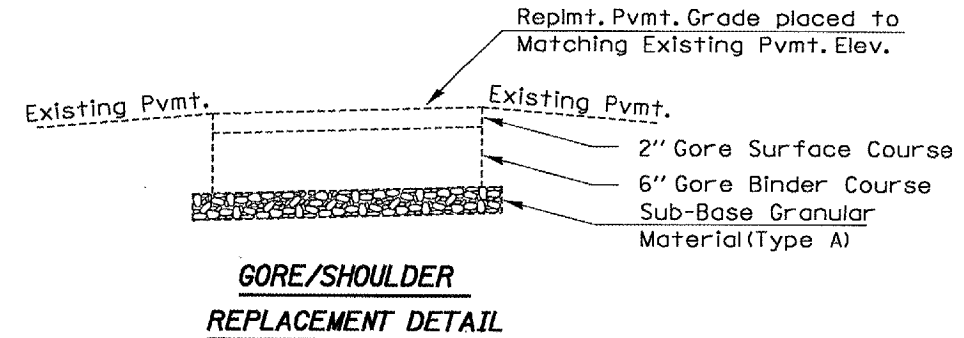
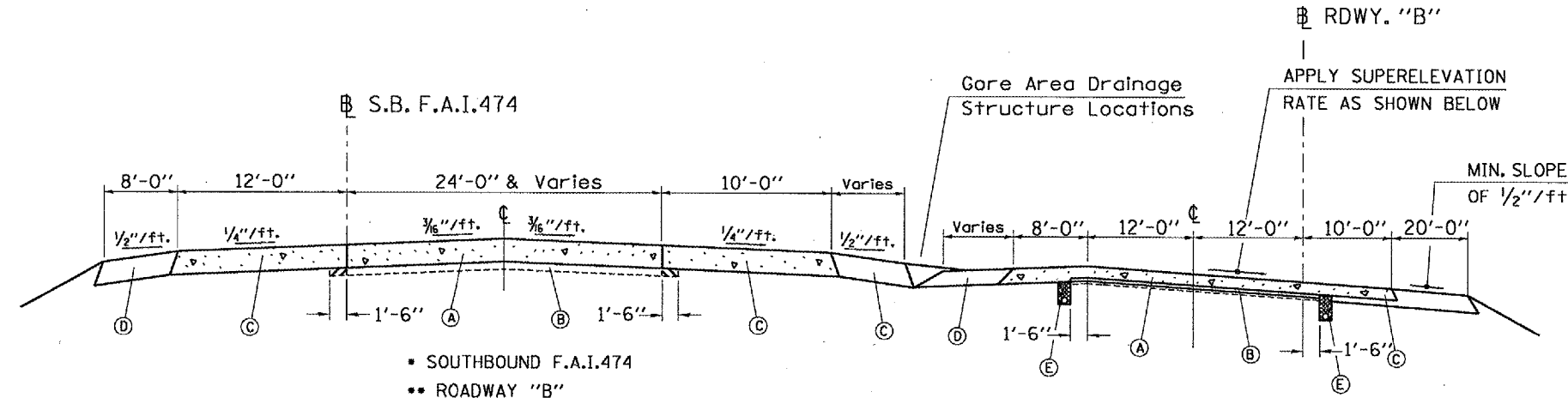
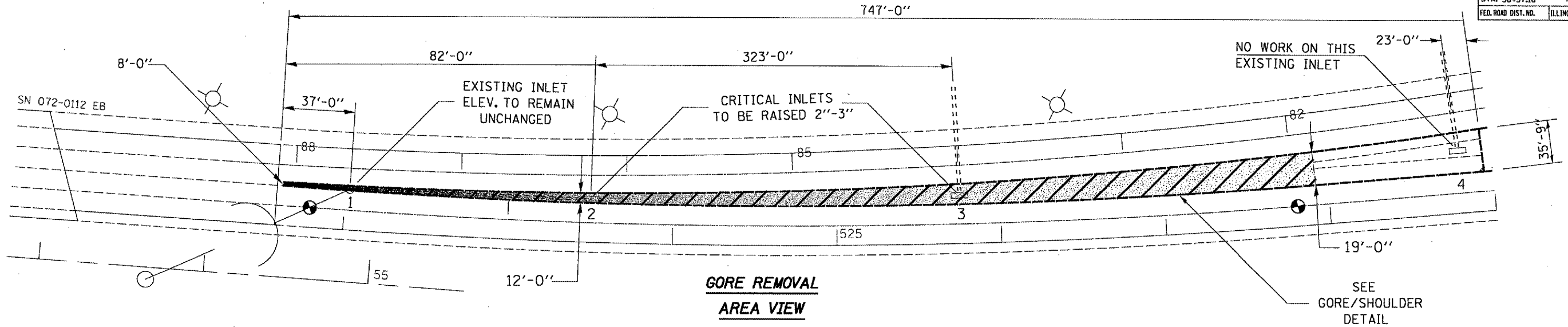
⊙ SFTY-3N

PLOT DATE * * *
FILE NAME * * *
PLOT SCALE * * *
REFERENCE * * *

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		SUMMARY OF QUANTITIES

SCALE: VERT. DRAWN BY CEJ
HORIZ. CHECKED BY
DATE 07-07-2006

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
474	(72-2HB)I	PEORIA	26	6
STA. 56+57.18		TO STA. 58+86.79		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



SUPERELEVATED SECTION-VARIABLE MEDIAN
(ROTATED AROUND BASELINE EDGE OF PAVEMENT)

SOUTHBOUND F.A.I. 474

CURVE TO RIGHT	RATE Ft / Ft.
Sta. 500+00.00 to Sta. 504+96.75	0.60 1/1
Sta. 522+99.23 to Sta. 526+21.01	0.53 1/1
CURVE TO LEFT	RATE Ft. / Ft.
Sta. 508+99.23 to Sta. 518+99.23	0.60 1/1

ROADWAY "B"

CURVE TO RIGHT	RATE Ft / Ft.
Sta. 50+80.00 to Sta. 68+56.08	0.60 1/1
Sta. 68+56.08 to Sta. 85+88.26	0.57 1/1

ROADWAY "B"
PAVEMENT DESIGN
F.A.I. RTE. 474 - SECTION 72-1

CLASS I
DESIGN YEAR 1992
P.C. = 3065 UP 50%
S.U. = 472 UP 50%
M.U. = 393 UP 50%
C.B.R. = 3.00
T.F. = 1.87

BILL OF MATERIAL

ITEM	UNIT	TOTAL
SUB-BASE GRANULAR MATERIAL, TYPE A	TON	106
HOT MIX ASPHALT BINDER COURSE	TON	312
HOT MIX ASPHALT SURFACE COURSE	TON	104

- (A) 9" CONTINUOUSLY REINFORCED P.C.C. PAVEMENT SEE STRD. 2224 & 2225
- (B) 4" STABILIZED SUB-BASE
- (C) 9" BITUMINOUS SHOULDERS SEE STRD. 2237
- (D) AGGREGATE SHOULDERS, TYPE A
- (E) PIPE UNDERDRAINS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL ENTRANCE RAMP CROSS-SECTION
SCALE: VERT. DATE 10-06-2006
DRAWN BY CEJ CHECKED BY

PLOT DATE * * * * *
FILE NAME * * * * *
PLOT SCALE * * * * *
REFERENCE * * * * *

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
474	(72-2HB)I	PEORIA	26	7
STA. 56+57.18 TO STA. 58+86.79				
FED. ROAD DIST. NO. 4 ILLINOIS			FED. AID PROJECT	

SCHEDULE OF QUANTITIES

MOBILIZATION

JOBSITE = 1.0 LSUM

T, C, & P, STANDARD 701 400

JOBSITE = 1.0 LSUM

T, C, & P, STANDARD 701 401

JOBSITE = 1.0 LSUM

SUB-BASE GRANULAR MATERIAL

GORE/SHOULDER = 106 TON

HOT-MIX ASPHALT BINDER COURSE,
IL-19.0, N70 = 312 TON

HOT-MIX ASPHALT SURFACE COURSE,
MIX 'D', N70 = 104 TON

TEMPORARY CONCRETE BARRIER

JOBSITE WORKING AREA = 1392 FOOT

WORKZONE PAVEMENT MARKING REMOVAL

RAMP 'B' = 1500 SQ. FT.

PAVEMENT MARKING TAPE, TYPE III, 4''

JOBSITE WORKING AREA = 800 FOOT

TEMP. PAVEMENT MARKING LINE, 4''

JOBSITE WORKING AREA = 1000 FOOT

CHANGEABLE MESSAGE SIGN

AHEAD OF RAMP 'B' = 25 DAY

PAVED SHOULDER REMOVAL

RAMP 'B' GORE AREA = 1816 SQ. FT.

IMPACT ATTENUATORS, TEMPORARY(NRD), TEST LEVEL 3

JOBSITE BRIDGE DECK AND ENTRANCE TAPER = 2 EACH

T. C. & P. STANDARD 701 402

JOBSITE = 1.0 LSUM

T. C. & P. STANDARD 701 402(SPECIAL)

JOBSITE = 1.0 EACH

PLOT DATE * NOTES
FILE NAME * FILE#
PLOT SCALE * NSCALE*
REFERENCE * REF#

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: VERT.
HORIZ.
DATE 08-08-06

DRAWN BY CEJ
CHECKED BY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
474	(72-2HB)I	PEORIA	26	8
STA. 56+57.18		TO STA. 58+86.79		
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

CONCRETE REMOVAL

STRUCTURE JOINTS = 36.2 CU. YD.

REINFORCEMENT BARS, EPOXY COATED

ALL STRUCTURE JOINTS = 4860 POUNDS

PREFORMED JOINT STRIP SEAL

ALL STRUCTURE JOINTS = 284 FOOT

BAR SPLICERS

BRIDGE JOINTS = 40 EACH

CONCRETE SUPERSTRUCTURE

BRIDGE JOINTS = 36.2 CU. YD.

HOT-MIX ASPHALT CONCRETE REMOVAL (DECK)

JOBSITE = 2700 SQ. YD.

BR. DECK HYDRO-SCARIFICATION (1/2)''

JOBSITE = 2700 SQ. YD.

BRIDGE DECK LATEX CONCRETE OVERLAY

JOBSITE WORKING AREA = 2700 SQ. YD.

RELOCATE TEMPORARY CONCRETE BARRIER

JOBSITE WORKING AREA = 1392 FOOT

IMPACT ATTENUATORS, RELOCATE(NRD), TEST LEVEL 3

JOBSITE BRIDGE DECK AND ENTRANCE TAPER = 2 EACH

BRIDGE DECK GROOVING

JOBSITE BRIDGE DECKS = 2670 SQ. YD.

EPOXY MARKING - LINE, 4''

JOBSITE BRIDGE DECKS = 800 FOOT

EPOXY MARKING - LINE, 6''

BRIDGE DECK SKIP-DASH = 600 FOOT

EPOXY MARKING - LINE, 8''

LANE EDGE TAPERS = 800 FOOT

PLOT DATE * * * * *
 FILE NAME * * * * *
 PLOT SCALE * * * * *
 REFERENCE * * * * *

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p style="text-align: center;">SCHEDULE OF QUANTITIES</p> <p>SCALE: VERT. DRAWN BY CEJ HORIZ. CHECKED BY DATE 08-08-06</p>

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
474	(72-2HB)I	PEORIA	26	9
STA. 56+57.18		TO STA. 58+86.79		
FED. ROAD DIST. NO. 4		ILLINOIS		FED. AID PROJECT



TRAFFIC CONTROL SEQUENCE NOTES:

GORE REMOVAL/REPLACEMENT:

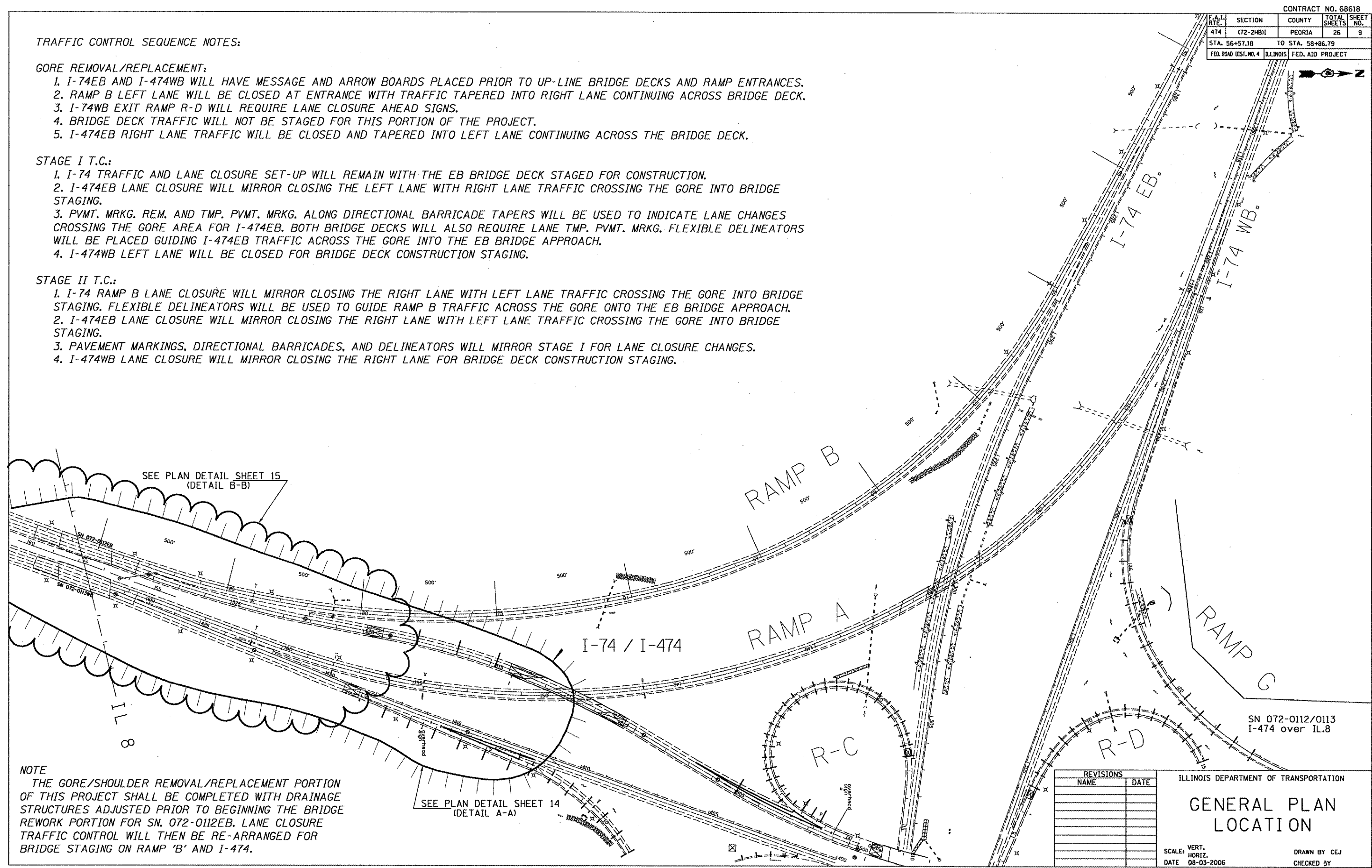
1. I-74EB AND I-474WB WILL HAVE MESSAGE AND ARROW BOARDS PLACED PRIOR TO UP-LINE BRIDGE DECKS AND RAMP ENTRANCES.
2. RAMP B LEFT LANE WILL BE CLOSED AT ENTRANCE WITH TRAFFIC TAPERED INTO RIGHT LANE CONTINUING ACROSS BRIDGE DECK.
3. I-74WB EXIT RAMP R-D WILL REQUIRE LANE CLOSURE AHEAD SIGNS.
4. BRIDGE DECK TRAFFIC WILL NOT BE STAGED FOR THIS PORTION OF THE PROJECT.
5. I-474EB RIGHT LANE TRAFFIC WILL BE CLOSED AND TAPERED INTO LEFT LANE CONTINUING ACROSS THE BRIDGE DECK.

STAGE I T.C.:

1. I-74 TRAFFIC AND LANE CLOSURE SET-UP WILL REMAIN WITH THE EB BRIDGE DECK STAGED FOR CONSTRUCTION.
2. I-474EB LANE CLOSURE WILL MIRROR CLOSING THE LEFT LANE WITH RIGHT LANE TRAFFIC CROSSING THE GORE INTO BRIDGE STAGING.
3. PVMT. MRKG. REM. AND TMP. PVMT. MRKG. ALONG DIRECTIONAL BARRICADE TAPERS WILL BE USED TO INDICATE LANE CHANGES CROSSING THE GORE AREA FOR I-474EB. BOTH BRIDGE DECKS WILL ALSO REQUIRE LANE TMP. PVMT. MRKG. FLEXIBLE DELINEATORS WILL BE PLACED GUIDING I-474EB TRAFFIC ACROSS THE GORE INTO THE EB BRIDGE APPROACH.
4. I-474WB LEFT LANE WILL BE CLOSED FOR BRIDGE DECK CONSTRUCTION STAGING.

STAGE II T.C.:

1. I-74 RAMP B LANE CLOSURE WILL MIRROR CLOSING THE RIGHT LANE WITH LEFT LANE TRAFFIC CROSSING THE GORE INTO BRIDGE STAGING. FLEXIBLE DELINEATORS WILL BE USED TO GUIDE RAMP B TRAFFIC ACROSS THE GORE ONTO THE EB BRIDGE APPROACH.
2. I-474EB LANE CLOSURE WILL MIRROR CLOSING THE RIGHT LANE WITH LEFT LANE TRAFFIC CROSSING THE GORE INTO BRIDGE STAGING.
3. PAVEMENT MARKINGS, DIRECTIONAL BARRICADES, AND DELINEATORS WILL MIRROR STAGE I FOR LANE CLOSURE CHANGES.
4. I-474WB LANE CLOSURE WILL MIRROR CLOSING THE RIGHT LANE FOR BRIDGE DECK CONSTRUCTION STAGING.



NOTE

THE GORE/SHOULDER REMOVAL/REPLACEMENT PORTION OF THIS PROJECT SHALL BE COMPLETED WITH DRAINAGE STRUCTURES ADJUSTED PRIOR TO BEGINNING THE BRIDGE REWORK PORTION FOR SN. 072-0112EB. LANE CLOSURE TRAFFIC CONTROL WILL THEN BE RE-ARRANGED FOR BRIDGE STAGING ON RAMP 'B' AND I-474.

PLOT DATE = 08/03/06
 FILE NAME = 072-0112EB.dgn
 PLOT SCALE = 1/8"=1'-0"
 USER NAME = JUBERT

REVISIONS	
NAME	DATE

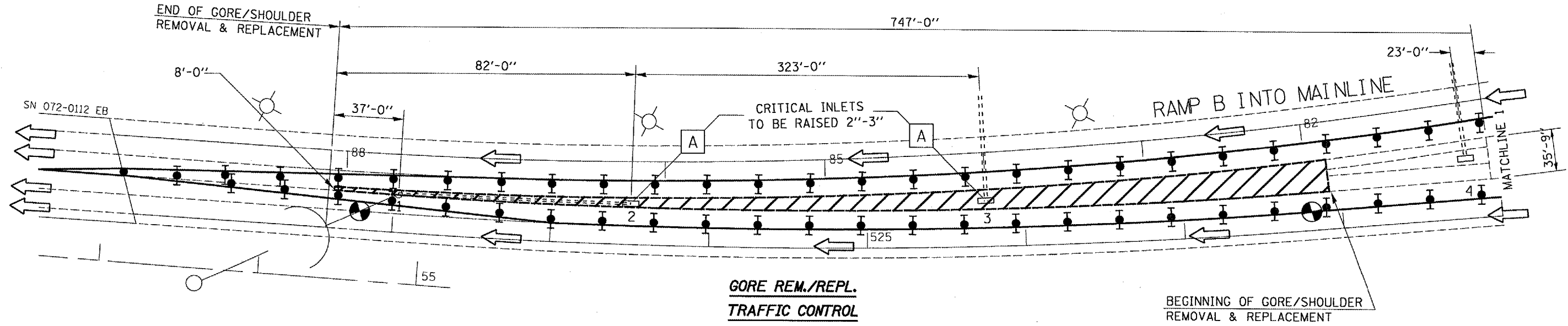
ILLINOIS DEPARTMENT OF TRANSPORTATION










GENERAL PLAN LOCATION

SCALE: VERT. 1"=20'
 HORIZ. 1"=100'
 DATE 08-03-2006

DRAWN BY CEJ
 CHECKED BY

CONTRACT NO. 68618				
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
474	(72-2HB)	PEORIA	26	10
STA. 56+57.18		TO STA. 58+86.79		
FED. ROAD DIST. NO. 4		ILLINOIS FED. AID PROJECT		



-  Arrow Board
-  Work Area
-  Sign
-  Type II barricade, drum, or verticle barricade w/steady-burn monodirectional light
-  Direction Indicator barricade with steady burn monodirectional light
-  Temporary Concrete Barrier
-  Type C Monodirectional Reflector
-  Verticle Panel w/steady-burn monodirectional light
-  Adjustment Frame and Grate

TRAFFIC NOTES
 Refer to Highway Standards 701401, 701402, and 701402 (Special) for exact placement of traffic management devices and other clarifications as construction staging symbols and dimensioning were duplicated off of these.

Both traffic lanes adjacent to the Ramp 'B' gore area shall be closed with traffic shifted into the outside lane of the ramp and the inside lane of I-474EB for the duration of the removal/replacement work.

Shoulder/Gore replacement work traffic control shall be according to Highway Standards 701401 and Bridge repair work traffic control shall be according to 701402 and 701402(Special).

Additional signage and Ramp 'B' lane reduction requirements may be determined by the Field Engineer and Traffic Control Technician at time of staging for bridge repair Traffic Control.

**701402 SPECIAL
BILL OF MATERIAL**

ITEM	UNIT	TOTAL
TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE W/STEADY-BURN MONODIRECTIONAL LIGHT	EACH	50
TEMPORARY PAVEMENT MARKING TAPE, 4"	FOOT	600
ARROW BOARD	EACH	2
DIRECTION INDICATOR BARRICADES	EACH	30
TYPE III BARRICADE	EACH	2
FLEXIBLE DELINEATORS	EACH	60
SIGNS	EACH	6

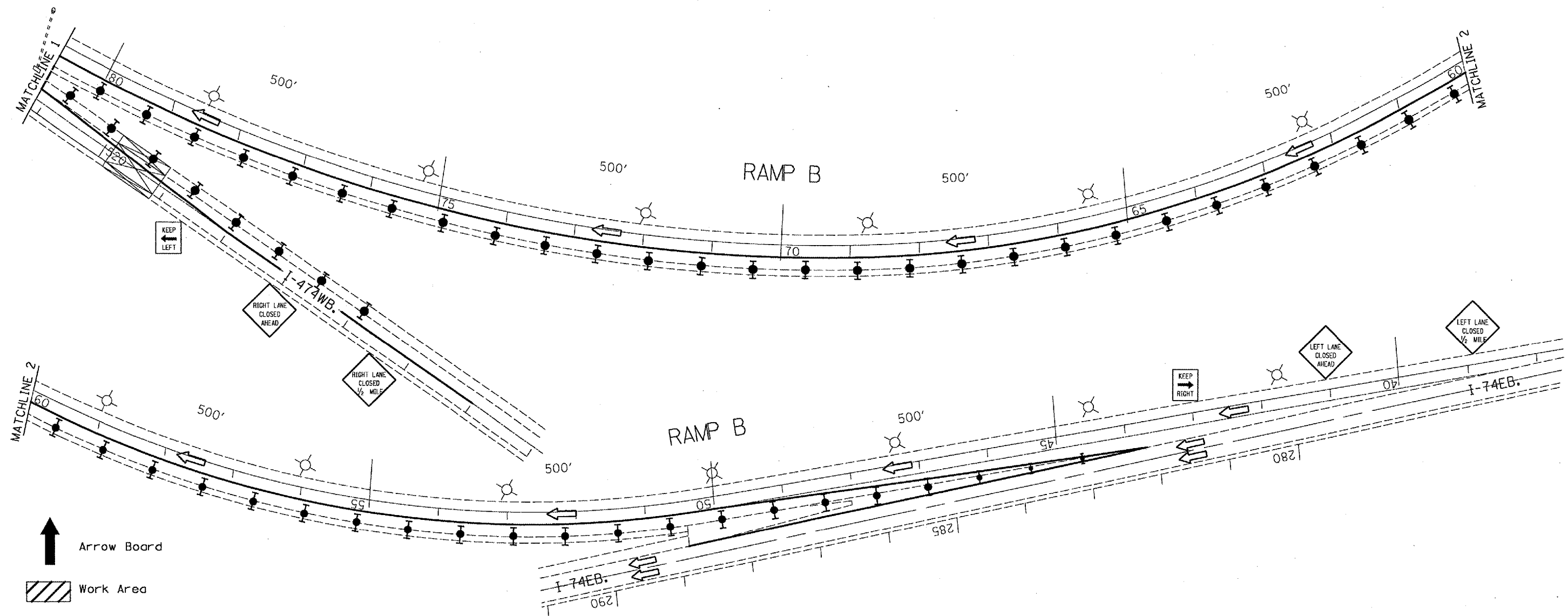
SN072-0112/072-0113
I-474 over IL. 8


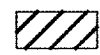






REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL PLAN
 SCALE: VERT. _____
 HORIZ. _____
 DATE 10-11-2006
 DRAWN BY CEJ
 CHECKED BY _____

PLT DATE * 0072
 FILE NAME * 072-0113
 PLOT SCALE * 1/8"=1'-0"
 REFERENCE * REF#

CONTRACT NO. 68618			
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
474	I72-2HB	PEORIA	26 11
STA. 56+57.18		TO STA. 58+86.79	
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT	



-  Arrow Board
-  Work Area
-  Sign
-  Type II barricade, drum, or verticle barricade w/steady-burn monodirectional light
-  Direction Indicator barricade with steady burn monodirectional light
-  Temporary Concrete Barrier
-  Type C Monodirectional Reflector
-  Verticle Panel w/steady-burn monodirectional light

GORE REM./REPL.
TRAFFIC CONTROL

NOTE
Refer to Highway Standards 701401, 701402, and 701402 (Special) for exact placement of traffic management devices and other clarifications as construction staging symbols and dimensioning were duplicated off of these. Additional signage and Ramp 'B' lane reduction requirements may be determined by the Field Engineer and Traffic Control Technician at time of staging for bridge repair Traffic Control.

REVISIONS	
NAME	DATE

SNO72-0112/072-0113
I-474 over IL. 8

ILLINOIS DEPARTMENT OF TRANSPORTATION

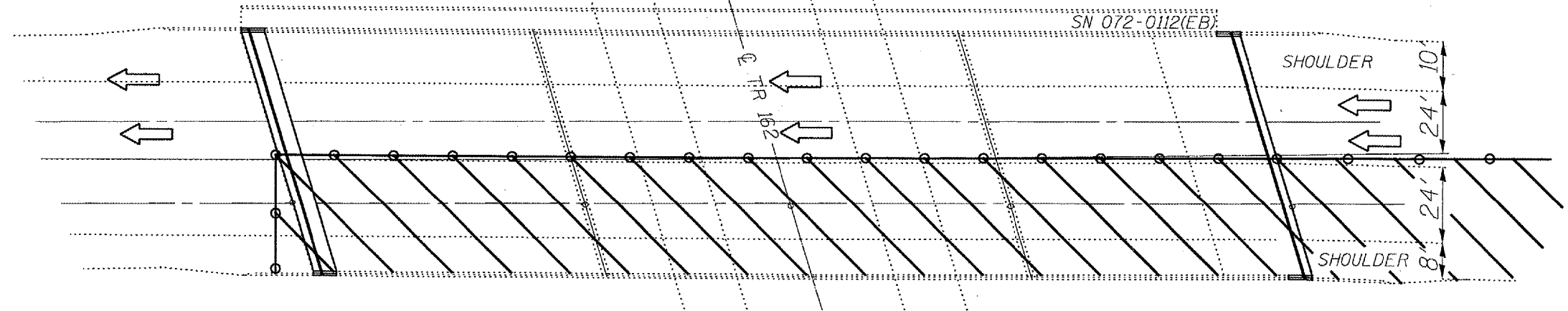
TRAFFIC CONTROL PLAN

SCALE: VERT. HORIZ.
DATE 10-31-2006

DRAWN BY CEJ
CHECKED BY

PLOT DATE = 12/7/2006
 FILE NAME = I72-2HB
 PLOT SCALE = AS SHOWN
 REFERENCE = I72-2HB

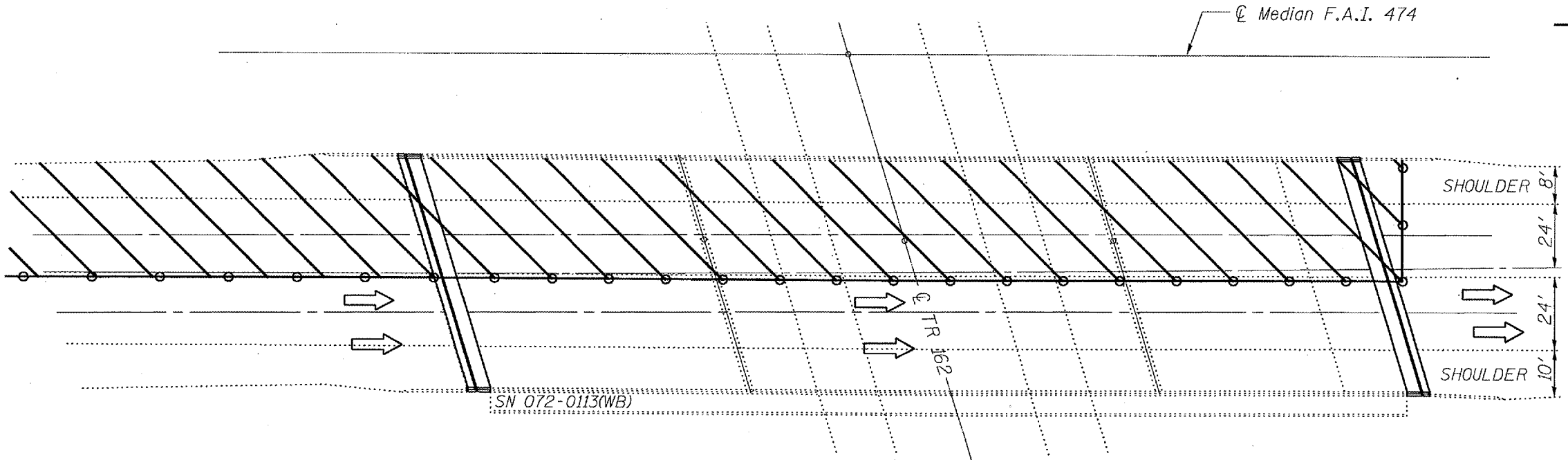
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
474	172-2(HBI)	PEORIA	26	12
STA. 56+57.18		TO STA. 58+86.79		
FED. ROAD DIST. NO. 4		ILLINOIS		FED. AID PROJECT



**STAGE I
TRAFFIC & CONTROL**

NOTE
Refer to Highway Standard 701402 for exact placement of traffic management devices and other clarifications as construction staging symbols and dimensioning were duplicated off of this standard.

- Arrow Board
- Work Area
- Sign
- Type II barricade, drum, or verticle barricade w/steady-burn monodirectional light
- Direction Indicator barricade with steady burn monodirectional light
- Temporary Concrete Barrier
- Type C Monodirectional Reflector
- Verticle Panel w/steady-burn monodirectional light



**STAGE I
TRAFFIC & CONTROL**

SN072-0112/072-0113
I-474 over IL. 8

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

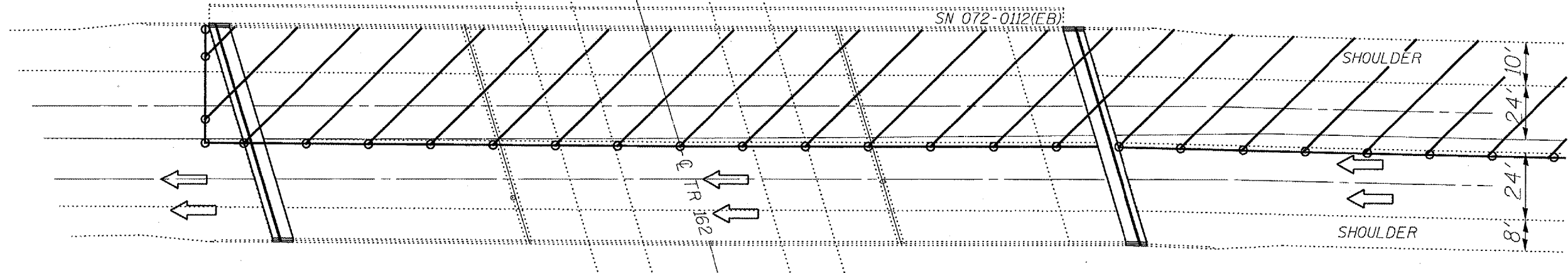
TRAFFIC STAGING PLAN

SCALE: VERT. _____
HORIZ. _____
DATE 07-10-2006

DRAWN BY CEJ
CHECKED BY _____

PLOT DATE = 08/07/06
FILE NAME = 072-0112&113.dgn
PLOT SCALE = AS SHOWN
REFERENCE = REF#

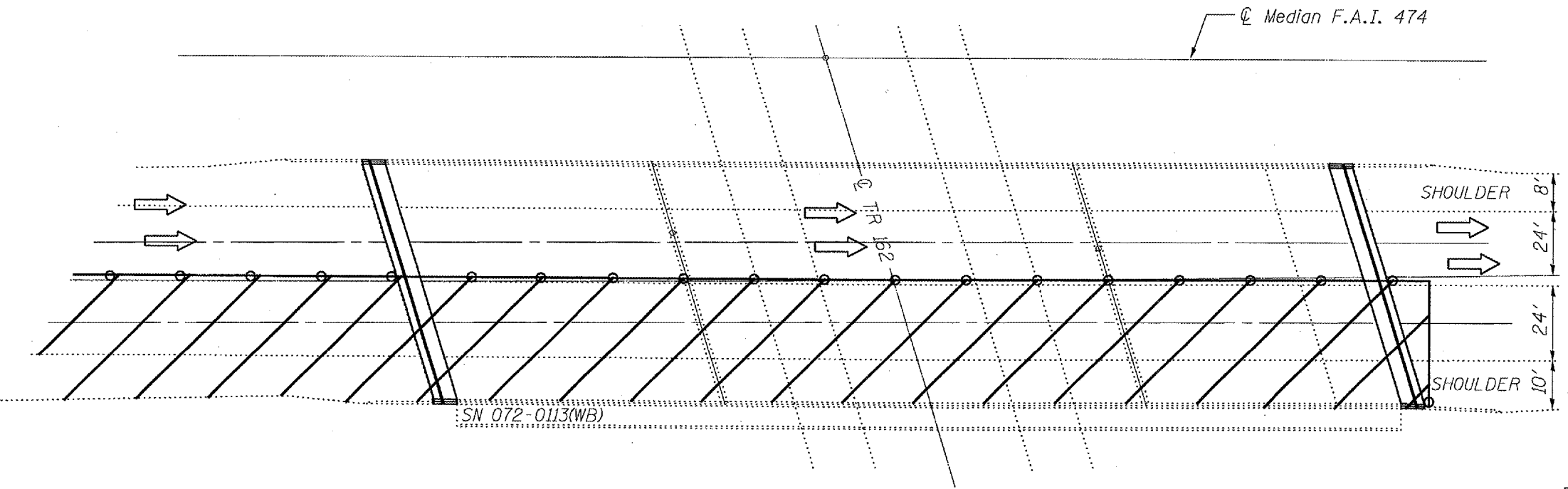
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
474	172-2HB1	PEORIA	26	13
STA. 56+57.18		TO STA. 58+86.79		
FED. ROAD DIST. NO. 4		ILLINOIS FED. AID PROJECT		



**STAGE II
TRAFFIC & CONTROL**

NOTE
Refer to Highway Standard 701402 for exact placement of traffic management devices and other clarifications as construction staging symbols and dimensioning were duplicated off of this standard.

- Arrow Board
- Work Area
- Sign
- Type II barricade, drum, or verticle barricade w/steady-burn monodirectional light
- Direction Indicator barricade with steady burn monodirectional light
- Temporary Concrete Barrier
- Type C Monodirectional Reflector
- Verticle Panel w/steady-burn monodirectional light



**STAGE II
TRAFFIC & CONTROL**

SN072-0112/072-0113
I-474 over IL. 8

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

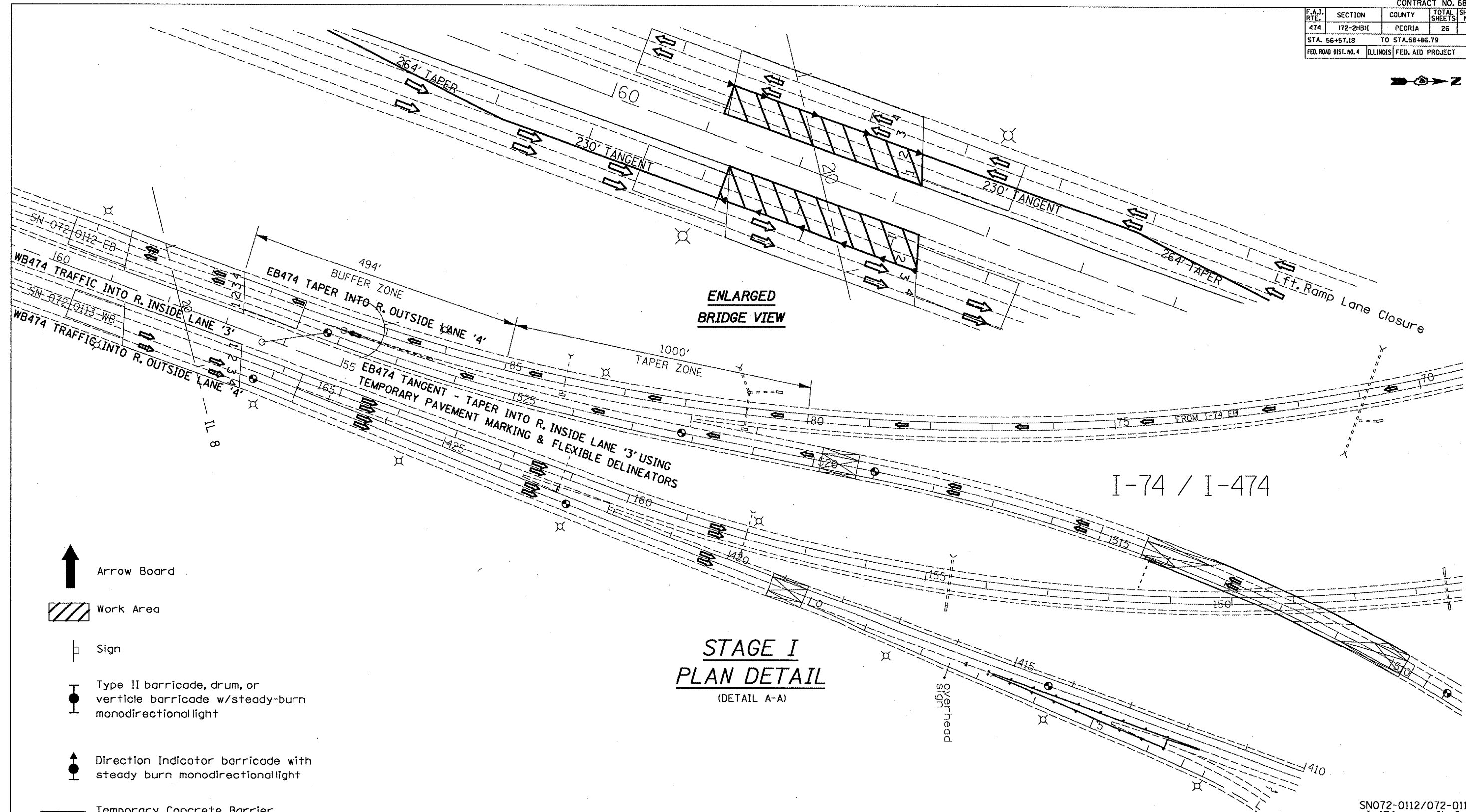
TRAFFIC STAGING PLAN

SCALE: VERT. HORIZ. DATE 07-10-2006

DRAWN BY CEJ
CHECKED BY

PLOT DATE = MONTE
FILE NAME = #FILE#
PLOT SCALE = #SCALE#
REFERENCE = #REF#

CONTRACT NO. 68618				
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
474	(72-2HD)	PEORIA	26	14
STA. 56+57.18		TO STA. 58+86.79		
FED. ROAD DIST. NO. 4		ILLINOIS FED. AID PROJECT		



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

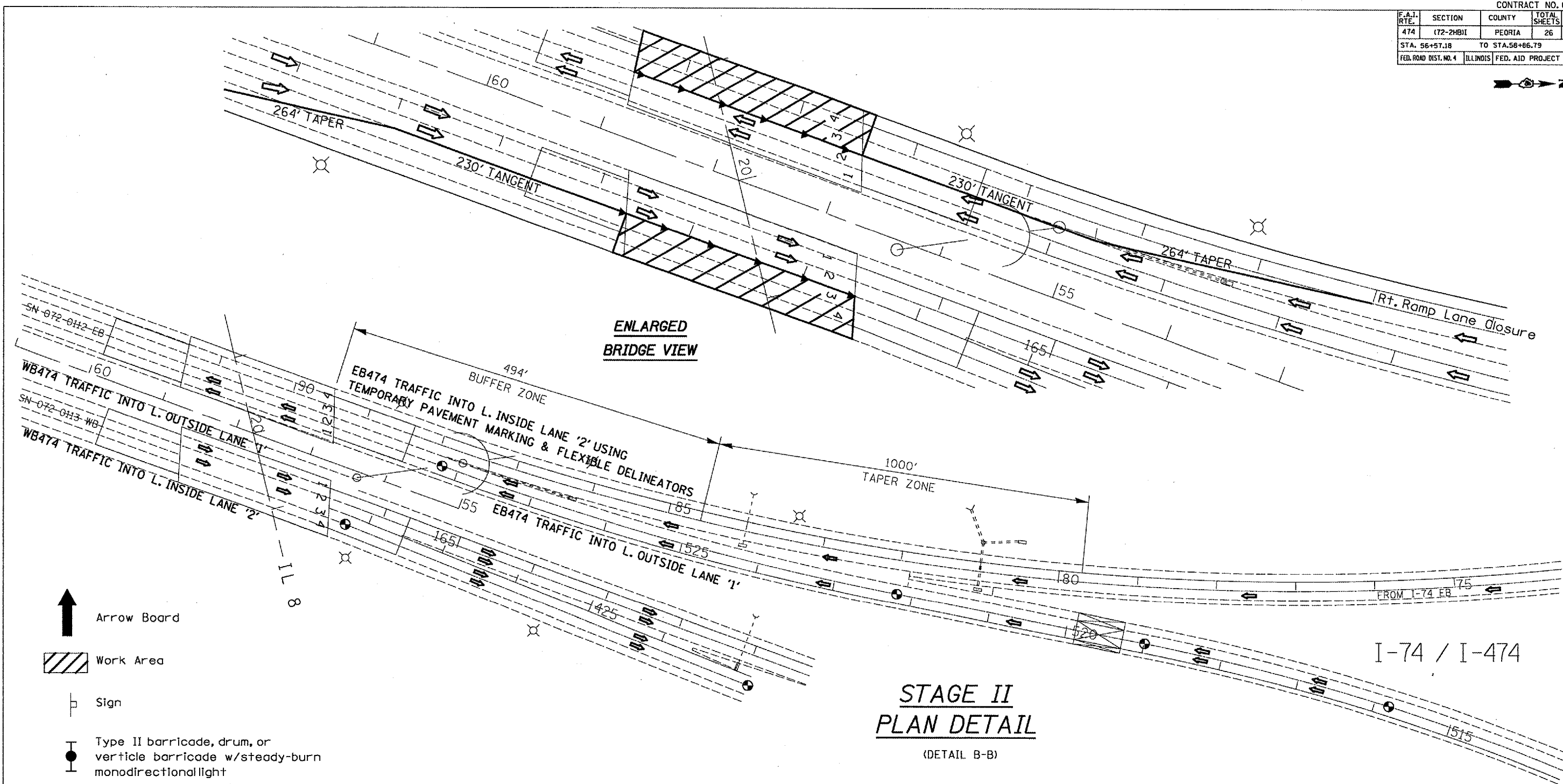
TRAFFIC STAGING PLAN

SCALE: VERT. DATE 08-03-2006

DRAWN BY CEJ
CHECKED BY

PLT DATE
FILE NAME
PLOT SCALE
REFERENCE

CONTRACT NO. 68618			
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
474	(72-2HB)I	PEORIA	26 15
STA. 56+57.18		TO STA. 58+66.79	
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT	



**STAGE II
PLAN DETAIL**
(DETAIL B-B)

NOTE
Refer to Highway Standards 701401, 701402, and 701402 (Special) for exact placement of traffic management devices and other clarifications as construction staging symbols and dimensioning were duplicated off of these. Additional signage and Ramp 'B' lane reduction requirements may be determined by the Field Engineer and Traffic Control Technician at time of staging for bridge repair Traffic Control.

REVISIONS	
NAME	DATE

SN072-0112/072-0113
I-474 over IL. 8

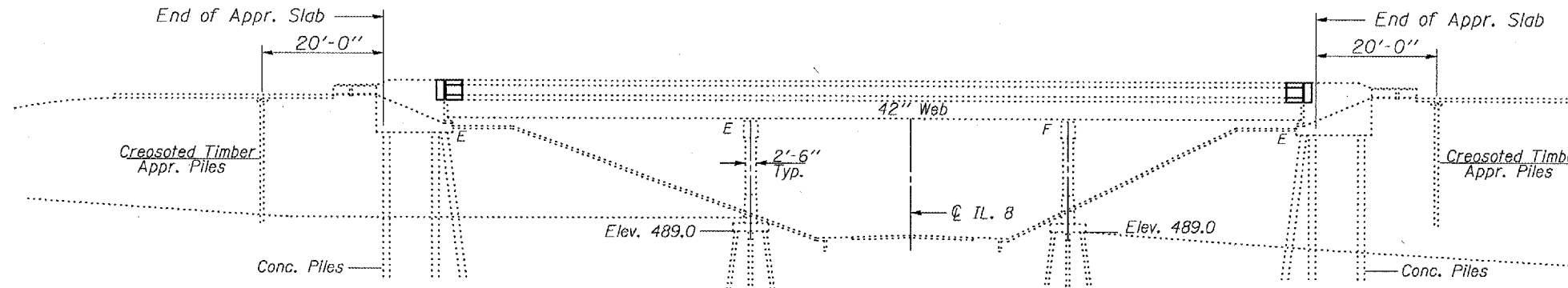
ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC STAGING PLAN

SCALE: VERT. DRAWN BY CEJ
 HORIZ. CHECKED BY
DATE 08-03-2006

PLOT DATE = 08/03/06
FILE NAME = STFILES
PLOT SCALE = 1/8"=1'-0"
REFERENCE = REF

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
474	(72-2HB)I	PEORIA	26	16
STA. 56+57.18		TO STA. 58+86.79		
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT				



ELEVATION

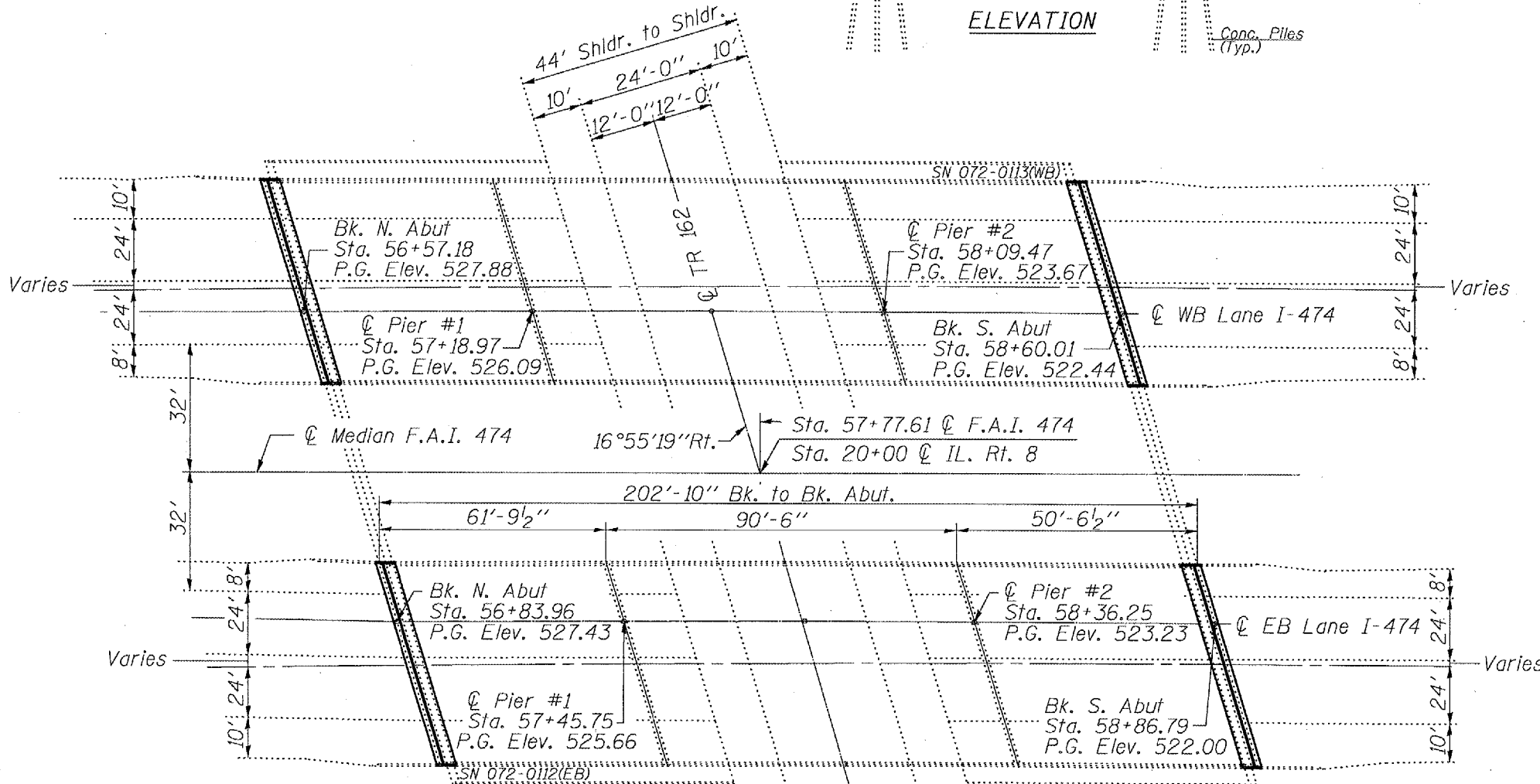
GENERAL NOTES

Plan dimensions and details relative to 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.

All Construction joints shall be bonded.

The existing structural steel coating contains lead. The Contractor should take precautions to deal with the presence of lead on this project.

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



PLAN VIEW

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	36.2
Reinforcement Bars, Epoxy Coated	Pound	4860
Bar Splicers	Each	40
Preformed Joint Strip Seal	Foot	284
Concrete Superstructure	Cu. Yd.	36.2
HMA Concrete Removal (Deck)	Sq. Yd.	2700
Bridge Deck Hydro-Scarification 1/2"	Sq. Yd.	2700
Bridge Deck Latex Concrete Overlay	Sq. Yd.	2700
Bridge Deck Grooving	Sq. Yd.	2670
Epoxy Marking Line, 4"	Foot	800
Epoxy Marking Line, 6"	Foot	600
Epoxy Marking Line, 8"	Foot	800

SN072-0112/072-0113
I-474 over IL. 8

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

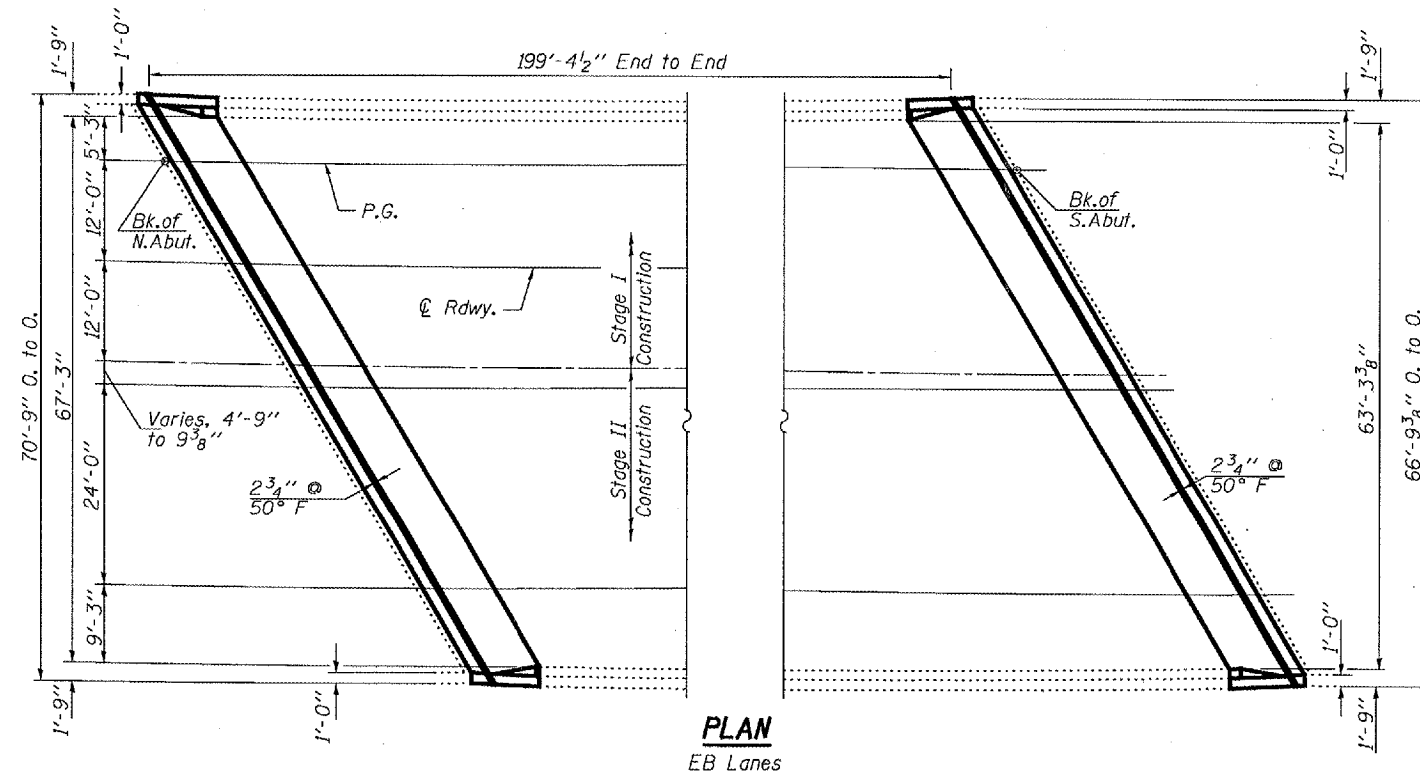
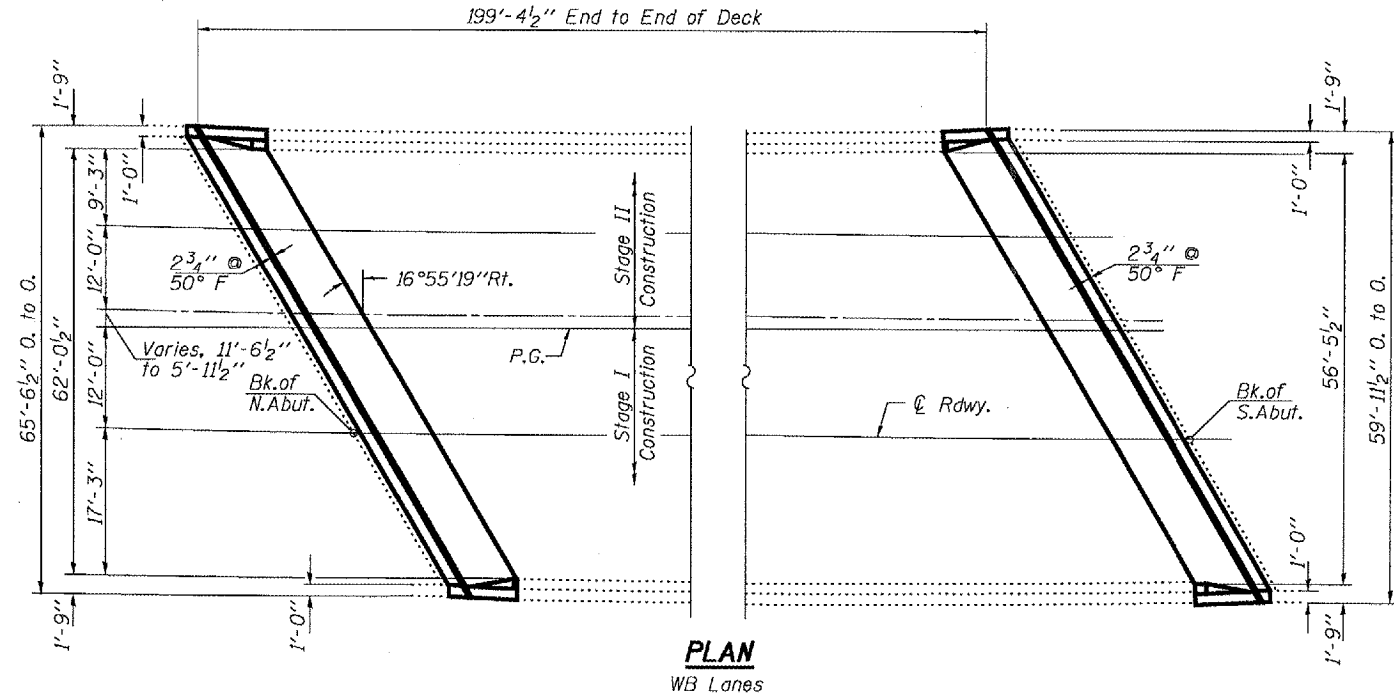
PLAN AND ELEVATION

SCALE: VERT. HORIZ. DATE 07-07-2006

DRAWN BY CEJ CHECKED BY

PLOT DATE
FILE NAME
PLOT SCALE
REFERENCE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
474	(72-2HBI)	PEORIA	26	17
STA. 56+57.18		TO STA. 58+86.79		
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	



PLOT DATE: * DATE *
 FILE NAME: * FILE *
 PLOT SCALE: * SCALE *
 REFERENCE: * REF *

REVISIONS	
NAME	DATE

SNO72-0112/072-0113
I-474 over IL. 8

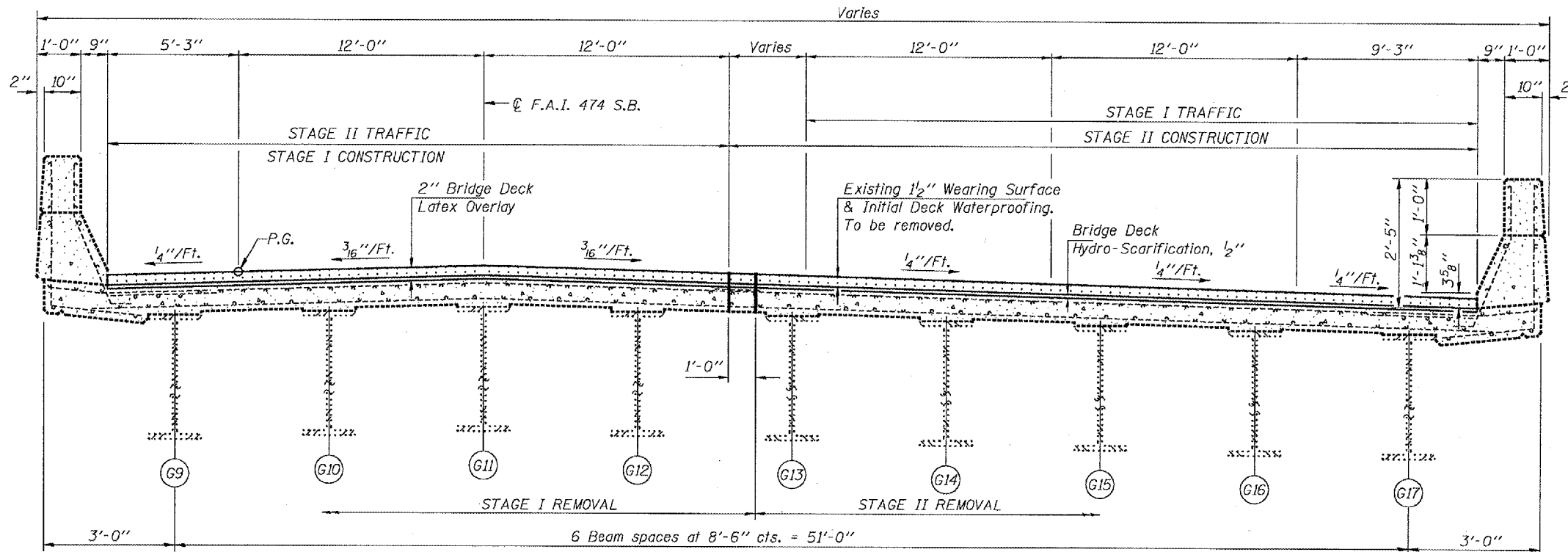
ILLINOIS DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE STAGING

SCALE: VERT. DATE 07-12-2006

DRAWN BY CEJ
CHECKED BY

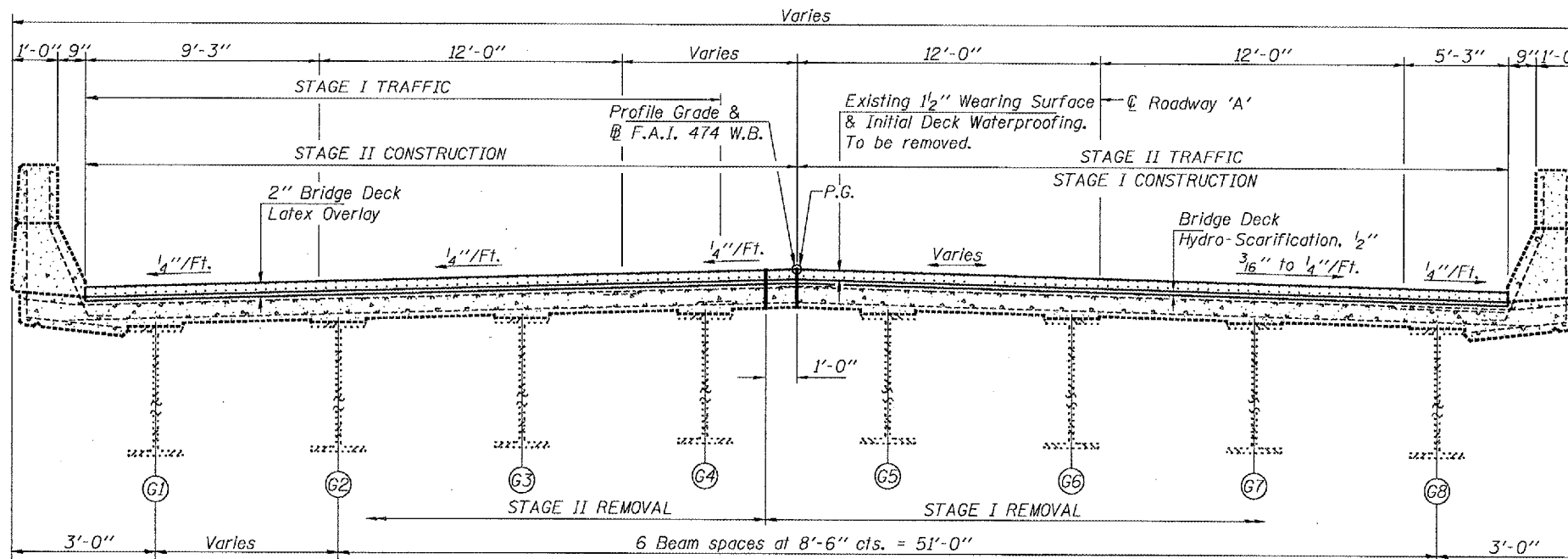
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
474	(72-2HB)I	PEORIA	26	18
STA. 56+57.18		TO STA. 58+86.79		
FED. ROAD DIST. NO. 4		ILLINOIS		FED. AID PROJECT



STAGING

SN 072-0112
(E.B. Looking South)

NOTE
Refer to Highway Standard 701402 for exact placement of traffic management devices and other clarifications as construction staging symbols and dimensioning were duplicated off of this standard.



STAGING

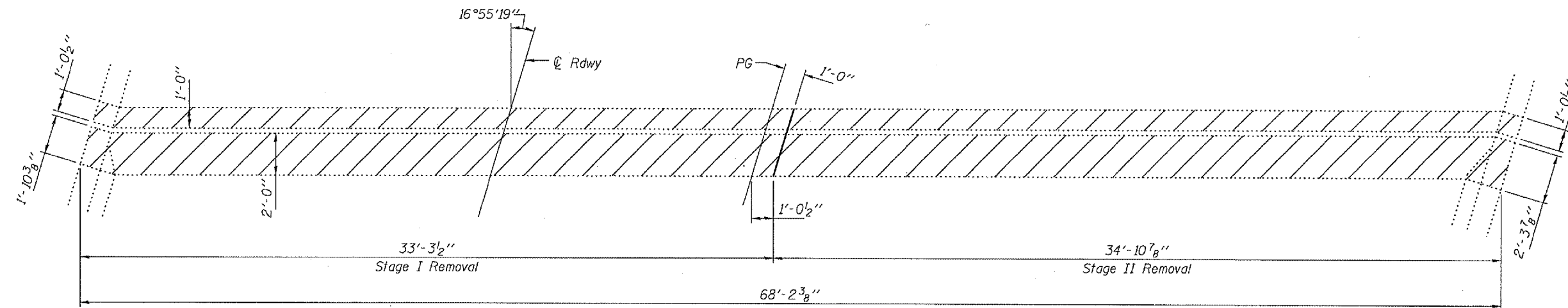
SN 072-0113
(W.B. Looking South)

SN072-0112/072-0113
I-474 over IL. 8

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		TRAFFIC STAGING
SCALE: VERT. DRAWN BY CEJ		CHECKED BY
DATE 07-12-2006		

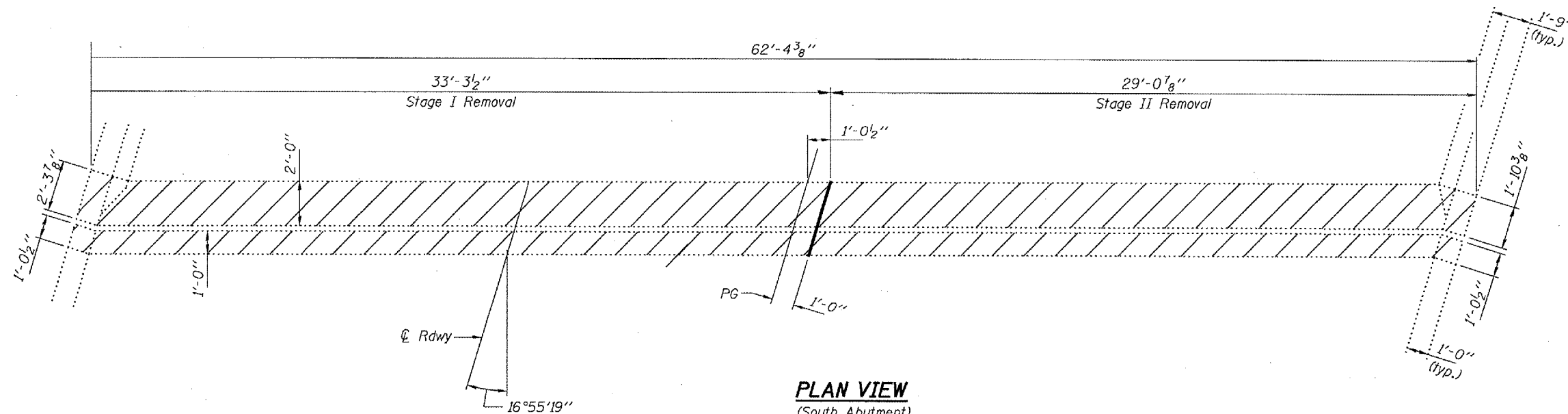
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FILE NAME * FTILEL
PLOT SCALE * SCALES
REFERENCE * REF#

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
474	(72-2HB)	PEORIA	26	19
STA. 56+57.18		TO STA. 58+86.79		
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		



PLAN VIEW
(North Abutment)

NOTE
Hatched areas indicate concrete removal.
Existing reinforcement, extending into removal area, to be cleaned, straightened, and incorporated into new construction.
Cost included with "Concrete Removal."



PLAN VIEW
(South Abutment)

REPLACEMENT DETAILS
(SN 072-0113 W.B.)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

JOINT CONCRETE REMOVAL

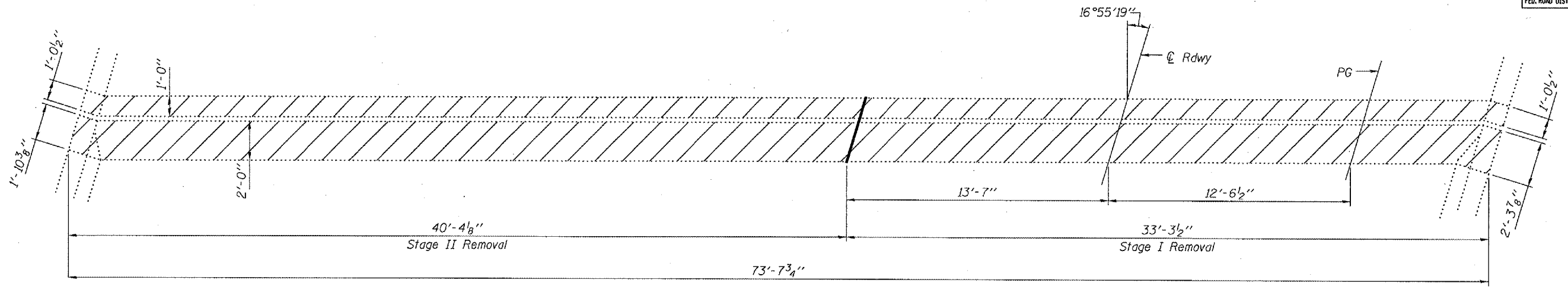
SCALE: VERT.
HORIZ.
DATE 07-14-2006

DRAWN BY CEJ
CHECKED BY

SN072-0113 W.B.
I-474 over IL. 8

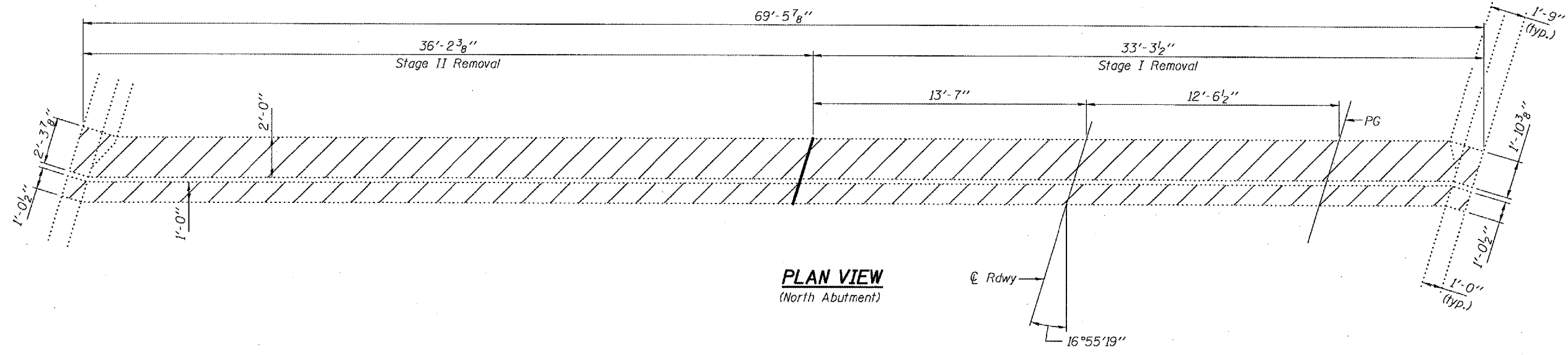
PLOT DATE * REVISED *
FILE NAME * * * * *
PLOT SCALE * * * * *
REFERENCE * * * * *

CONTRACT NO. 68618				
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
474	(72-2HB)	PEORIA	26	20
STA. 56+57.18		TO STA. 58+86.79		
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		



PLAN VIEW
(South Abutment)

NOTE
Hatched areas indicate concrete removal.
Existing reinforcement, extending into removal area, to be cleaned, straightened, and incorporated into new construction.
Cost included with "Concrete Removal."



PLAN VIEW
(North Abutment)

REPLACEMENT DETAILS
(SN 072-0112 E.B.)

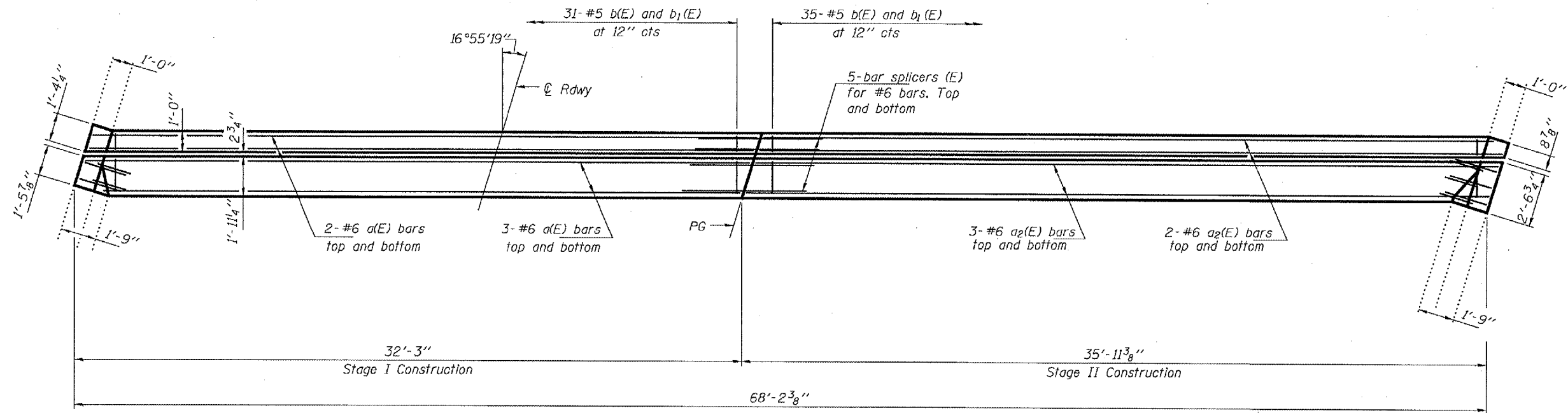
SN072-0112 E.B.
I-474 over IL. 8

REVISIONS	
NAME	DATE

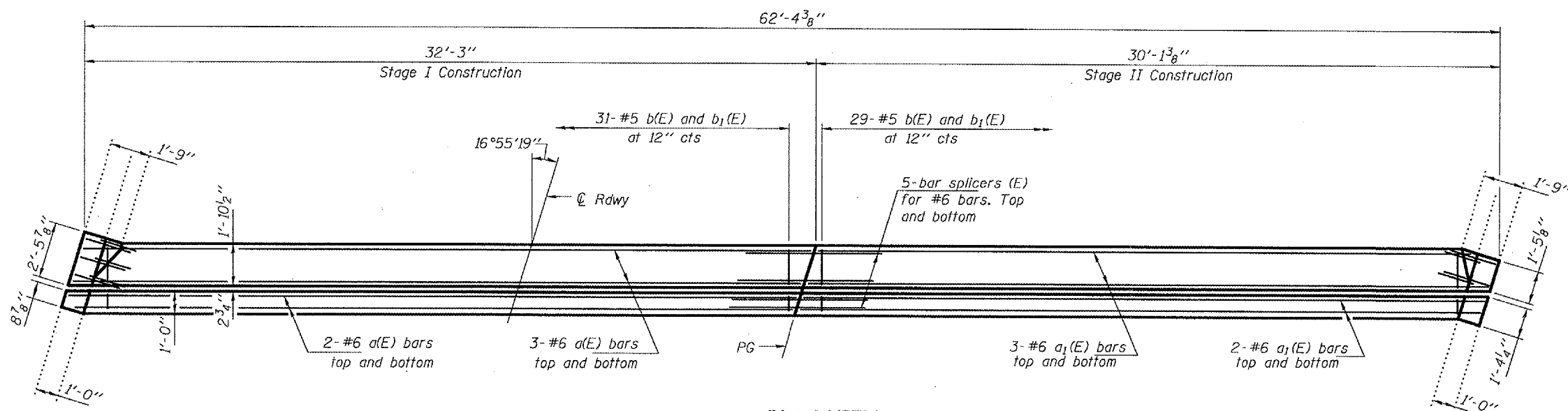
ILLINOIS DEPARTMENT OF TRANSPORTATION
JOINT CONCRETE REMOVAL
SCALE: VERT. HORIZ. DATE 07-17-2006 DRAWN BY CEJ CHECKED BY

PLOT DATE * REVISED * FILE NAME * PLOT SCALE * REFERENCE

F.o.I. Rte.	Section	County	Total Sheets	Sheet No.
474	(72-2hbl)	Peoria	26	21
Sta. 56+57.18		To sta. 58+86.79		
Fed. road dist. no. 4		Illinois	Fed. aid project	



PLAN VIEW
(North Abutment)



PLAN VIEW
(South Abutment)

NOTE
Reinforcement bars designated (E)
shall be epoxy coated.

REPLACEMENT DETAILS
(SN 072-0113 W.B.)

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Superstructure	Cu. Yd.	17.2
Concrete Removal	Cu. Yd.	17.2
Bar Splicers	Each	20

For details of bar splicers, see sheet 26 of 26.

Revisions	
Name	Date

SN072-0113 W.B.
I-474 over IL. 8

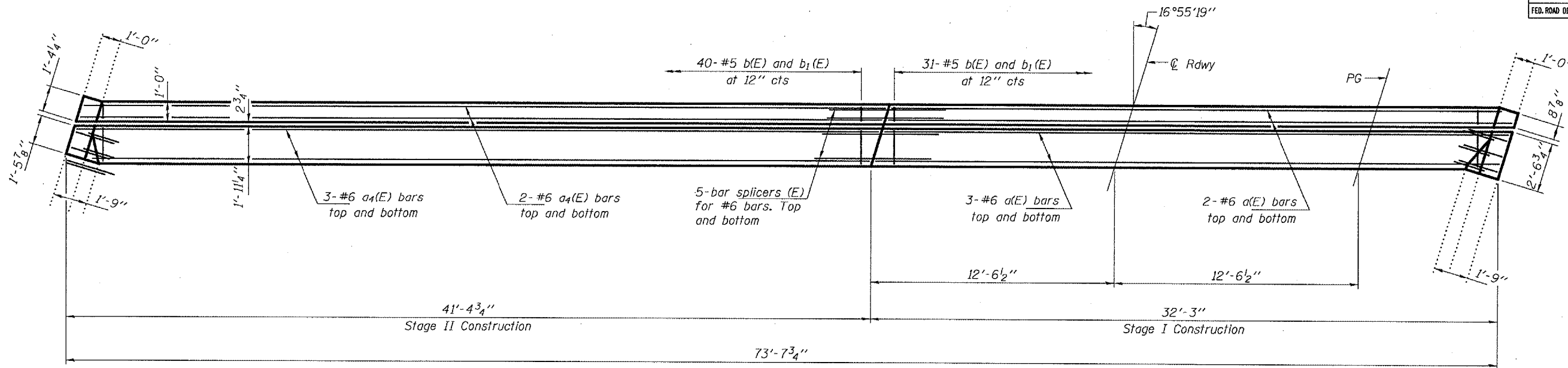
Illinois department of transportation
**JOINT CONCRETE
REPLACEMENT**

Scale: Vert.
Hartz.
Date 07-19-2006

Drawn by CEJ
Checked by

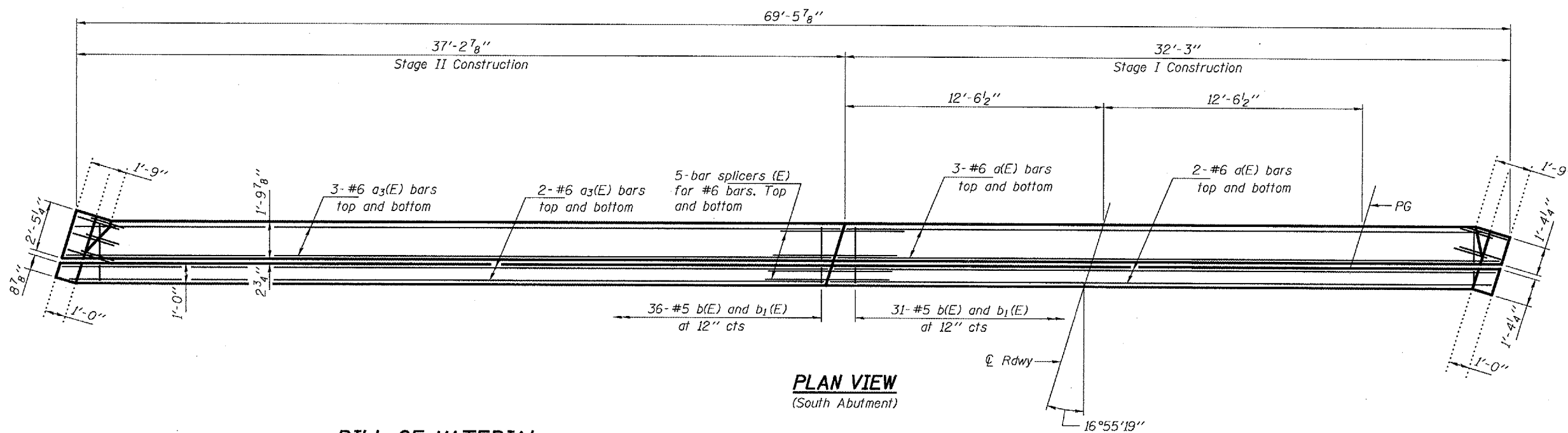
Plot date
File name
Plot scale
Reference

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
474	(72-2HB)	PEORIA	26	22
STA. 56+57.18		TO STA. 58+86.79		
FED. ROAD DIST. NO. 4		ILLINOIS FED. AID PROJECT		



PLAN VIEW
(North Abutment)

NOTE
Reinforcement bars designated (E)
shall be epoxy coated.



PLAN VIEW
(South Abutment)

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Superstructure	Cu. Yd.	19.0
Concrete Removal	Cu. Yd.	19.0
Bar Splicers	Each	20

For details of bar splicers, see sheet 26 of 26.

REPLACEMENT DETAILS
(SN 072-0112 E.B.)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

JOINT CONCRETE REPLACEMENT

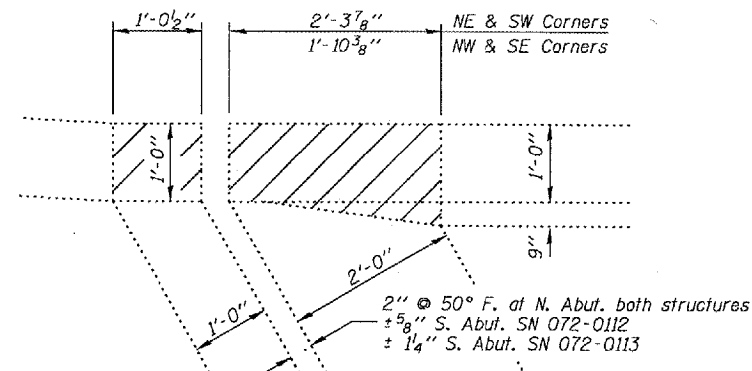
SCALE: VERT. HORIZ. DATE 07-20-2006

SN072-0112 E.B.
I-474 over IL. 8

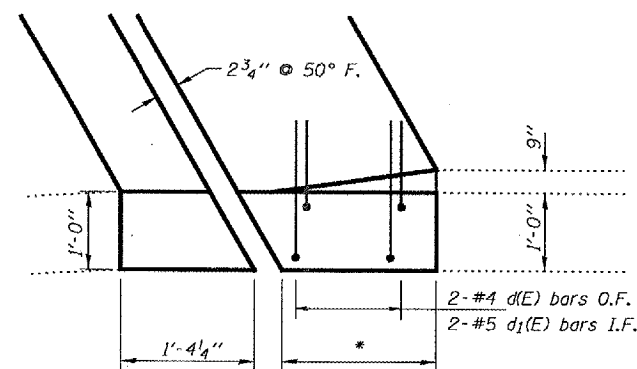
DRAWN BY CEJ
CHECKED BY

PLOT DATE = 07/20/06
FILE NAME = 0720112E.B.
PLOT SCALE = AS SHOWN
REFERENCE = REF.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
474	(72-2HBI)	PEORIA	26	23
STA. 56+57.18		TO STA. 58+86.79		
FED. ROAD DIST. NO. 4		ILLINOIS FED. AID PROJECT		

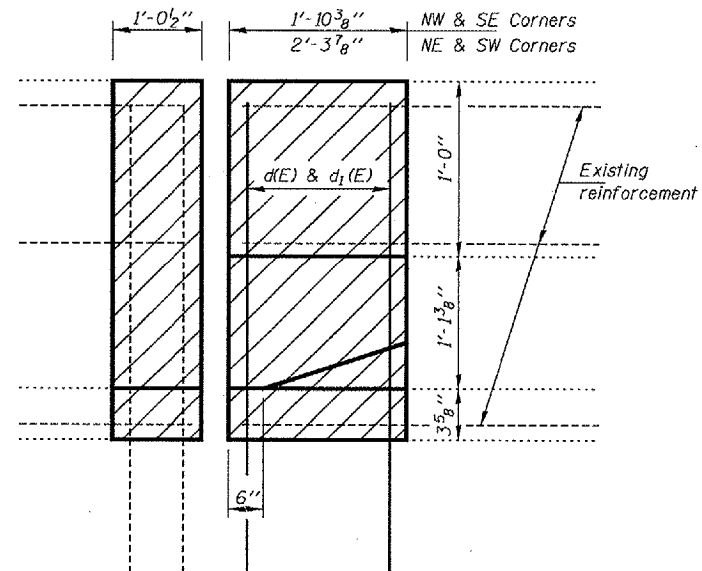


**EXISTING PLAN
PARAPET REMOVAL**

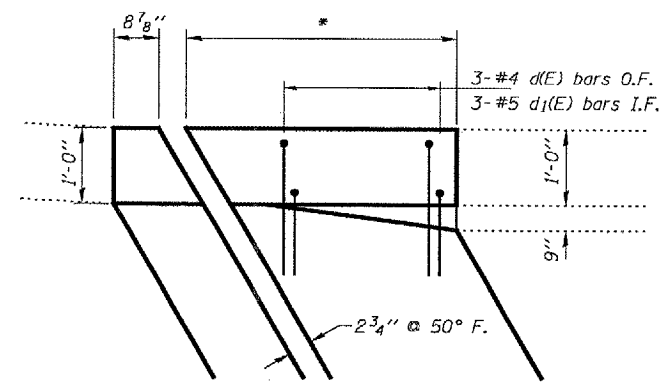


PLAN PARAPET REPLACEMENT
(Typical NW & SE corners)

* See sheets 21 & 22 of 26 for dimensions.



**INSIDE ELEVATION OF PARAPET
REPLACEMENT AT ABUTMENTS**
(Typical when facing Parapet)



PLAN PARAPET REPLACEMENT
(Typical NE & SW corners)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	24	#6	32'-1"	—
a1(E)	10	#6	30'-0"	—
a2(E)	10	#6	35'-10"	—
a3(E)	10	#6	37'-1"	—
a4(E)	10	#6	41'-3"	—
b(E)	264	#5	2'-5"	□
b1(E)	264	#5	2'-8"	┘
d(E)	20	#4	4'-10"	L
d1(E)	20	#5	3'-8"	L
Bar Splicers			Each	40
Concrete Removal			Cu. Yd.	36.2
Concrete Superstructure			Cu. Yd.	36.2
Reinforcement Bars, Epoxy Coated			Pound	4860

NOTE
Hatched areas indicate concrete removal.
Existing reinforcement, extending into removal area, to be cleaned, straightened, and incorporated into new construction.
Cost included with "Concrete Removal."

Reinforcement bars designated (E) shall be epoxy coated.

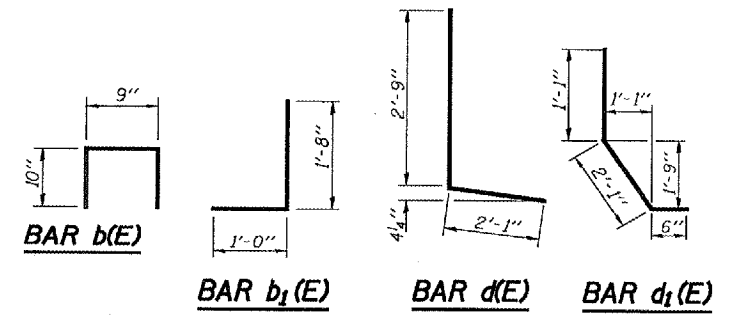
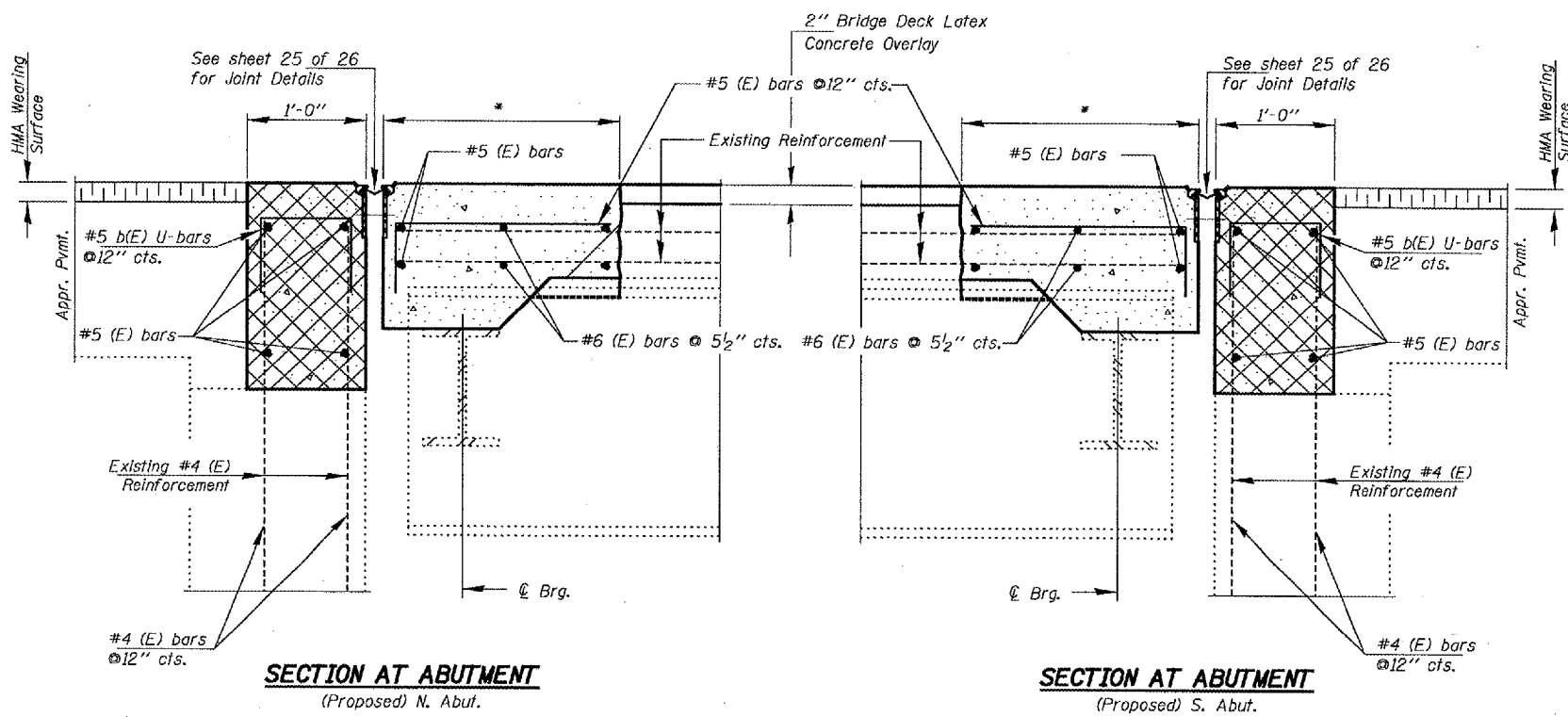
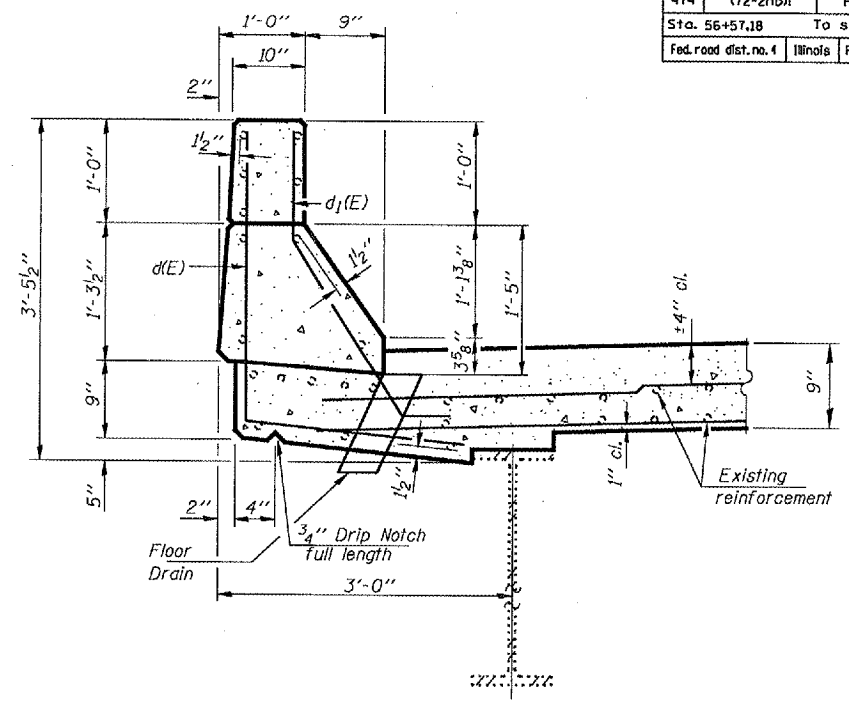
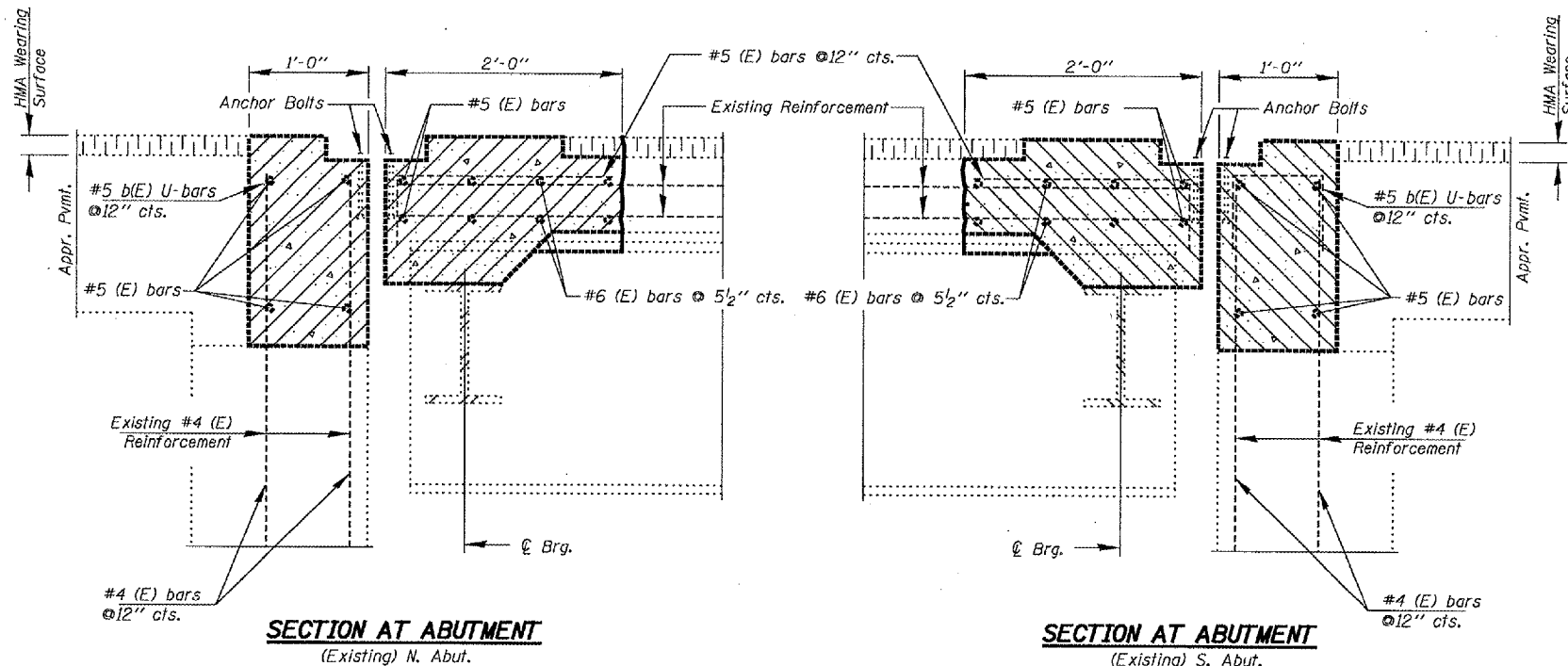
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**SUPERSTRUCTURE
DETAILS**

SCALE: VERT. DRAWN BY CEJ
HORIZ. CHECKED BY
DATE 06-05-2006

PLT DATE = 06/05/06
FILE NAME = 07112&113.dgn
PLOT SCALE = 1/8"=1'-0"
REFERENCE = 07112&113.dgn

F.o.l. Rtn.	Section	County	Total Sheets	Sheet No.
474	(72-2b)I	Pearla	26	24
Sta. 56+57.18		To sta. 58+86.79		
Fed. road dist. no. 4		Illinois	Fed. aid project	



NOTE
 Hatched areas indicate concrete removal. Quantity of HMA surface and waterproofing removal included with Concrete Removal. Existing reinforcement & threaded rods to be cleaned, straightened, and incorporated into new construction. Cost included with concrete removal. Cross hatched area to be poured after superstructure concrete is in place. Concrete quantity is included with Concrete Superstructure. Reinforcement bar quantity in cross hatched area is included on sheet 23 of 26. Reinforcement bars designated (E) shall be epoxy coated.

* See sheets 21 & 22 of 26 for dimensions.

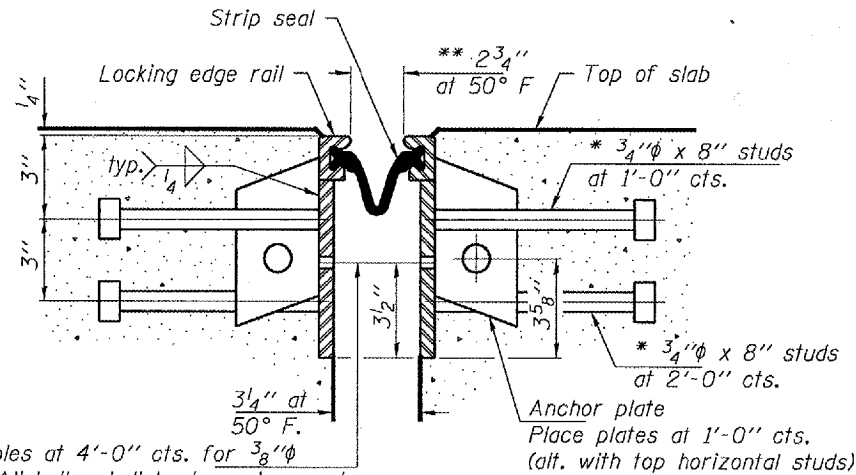
Revisions	
Name	Date

Illinois department of transportation
JOINT RECONSTRUCTION DETAIL
 Scale: Vert. Horiz. Date: 06-05-2006
 Drawn by: CEJ
 Checked by:

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
474	(72-2HB)I	PEORIA	26	25
STA. 56+57.18		TO STA. 58+95.79		
FED. ROAD DIST. NO. 4		ILLINOIS FED. AID PROJECT		

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

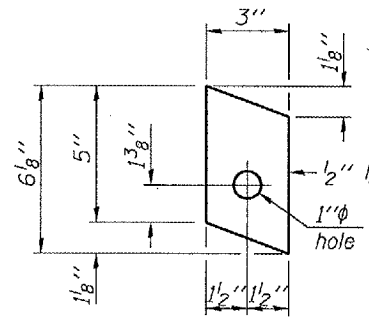
** When joint is fixed, dimension is set at 1 1/2".



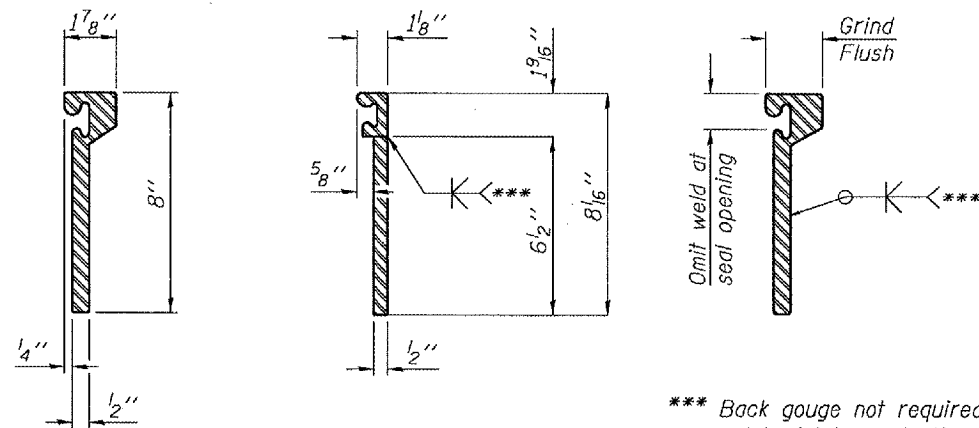
3/16" phi holes at 4'-0" cts. for 3/8" phi bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

SECTION THRU WELDED RAIL JOINT

Required Strip Seal rated movement	"A"
4"	2 3/4"



ANCHOR PLATE (for welded rail)



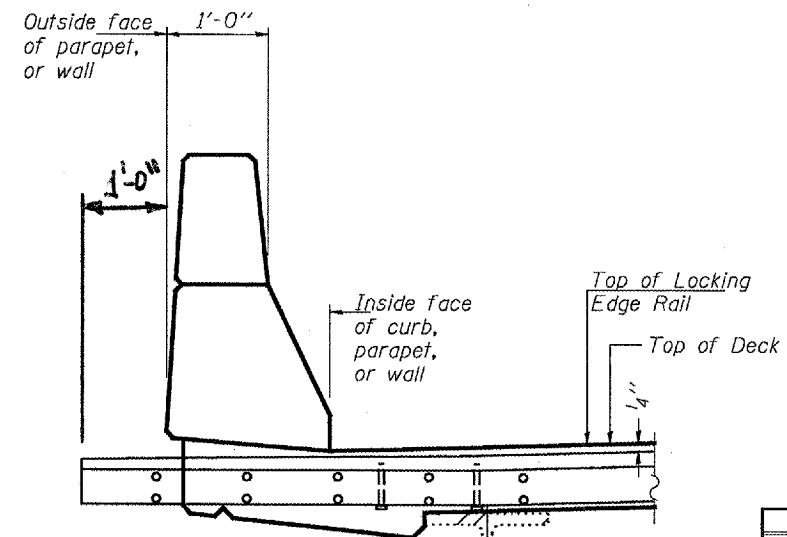
ROLLED (EXTRUDED) RAIL WELDED RAIL

*** Back gouge not required if complete joint penetration is verified by mock-up.

LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.

LOCKING EDGE RAILS



Downspout Assy. (by others)

AT CURB, PARAPET, OR WALL

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. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

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. Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.

The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

ITEM	UNIT	TOTAL
Preformed Joint Strip Seal	Foot	284

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		EXPANSION JOINT REPLACEMENT DETAIL SCALE: VERT. HORIZ. DATE 07-15-2006 DRAWN BY CEJ CHECKED BY

PLOT DATE = 08/08/06
 FILE NAME = 071128113.dgn
 PLOT SCALE = 1/8"=1'-0"
 REFERENCE = 071128113.dgn

F.A.I. RY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
474	(72-2HB)I	PEORIA	26	26
STA. 56+57.08		TO STA. 58+86.79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NOTES

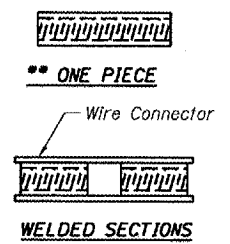
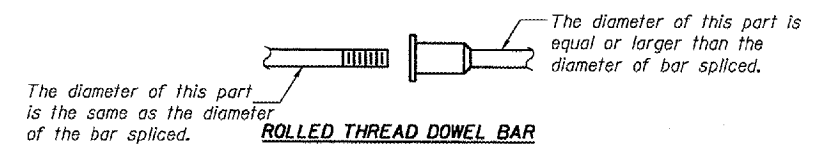
Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
 Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
 All reinforcement bars shall be lapped and tied to the 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 (Tension in kips) = $1.25 \times f_y \times A_1$
- ② Minimum *Pull-out Strength (Tension in kips) = $1.25 \times f_{s_{allow}} \times A_1$

Where f_y = Yield strength of lapped reinforcement bars in ksi.
 $f_{s_{allow}}$ = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
 A_1 = Tensile stress area of lapped reinforcement bars.
 * = 28 day concrete

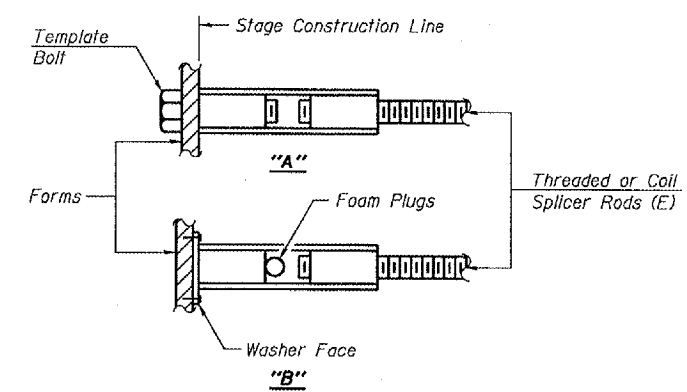
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	5.9
#5	2'-0"	23.0	9.2
#6	2'-7"	33.1	13.3
#7	3'-5"	45.1	18.0
#8	4'-6"	58.9	23.6
#9	5'-9"	75.0	30.0
#10	7'-3"	95.0	38.0
#11	9'-0"	117.4	46.8

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."



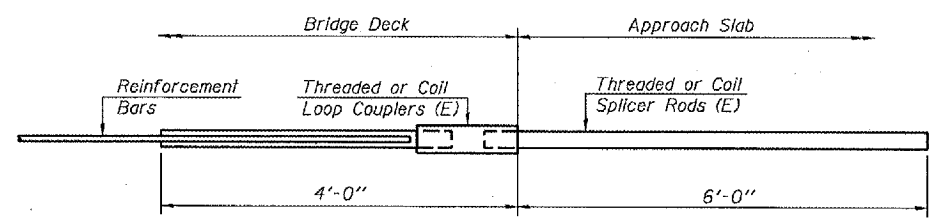
BAR SPLICER ASSEMBLY ALTERNATIVES

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



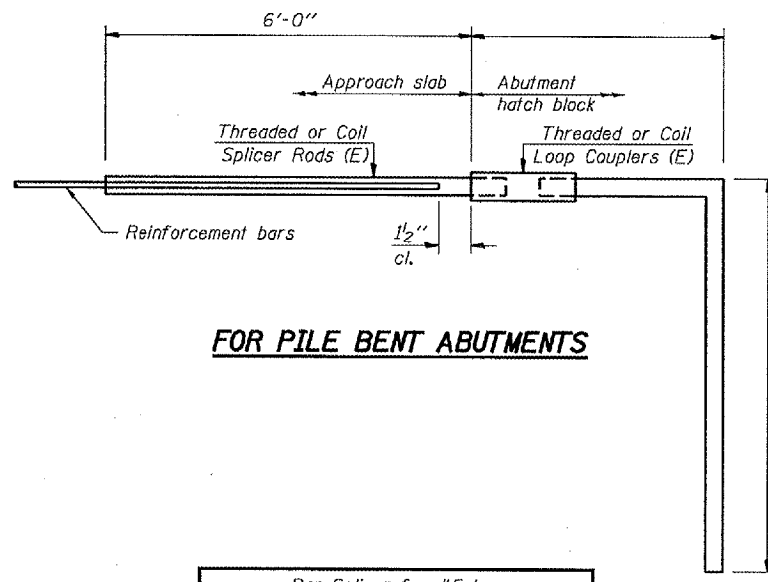
INSTALLATION AND SETTING METHODS

"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.



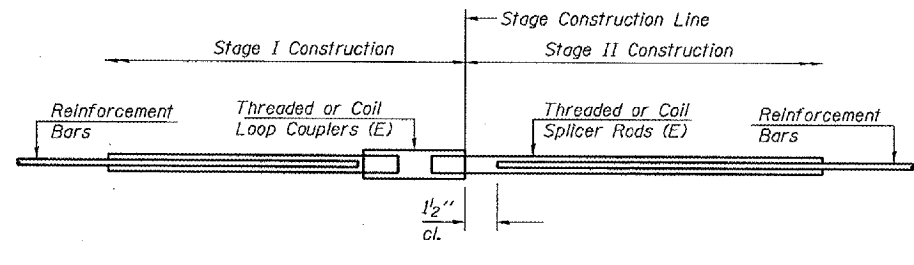
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required = 0



FOR PILE BENT ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required = 0



STANDARD

Bar Size	No. Assemblies Required	Location
#6	24	Deck
#6	16	Abutment

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BAR SPLICER DETAIL

SCALE: VERT. HORIZ. DATE 07-14-2006 DRAWN BY CEJ CHECKED BY

PLOT DATE
 FILE NAME
 PLOT SCALE
 REFERENCE