

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

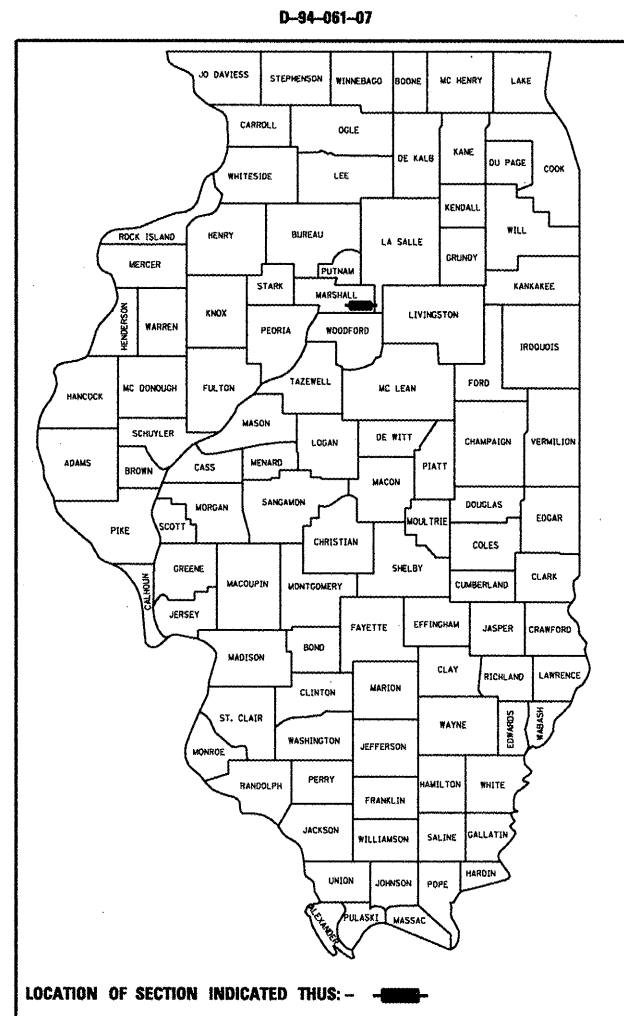
PROJECT ENGINEER: JIM MILLER
PHONE: (309)671-3451

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
412	(62-2HB-2)I	MARSHALL	9	1
FED. ROAD DIST. NO. 4		ILLINOIS	CONTRACT NO. 68729	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

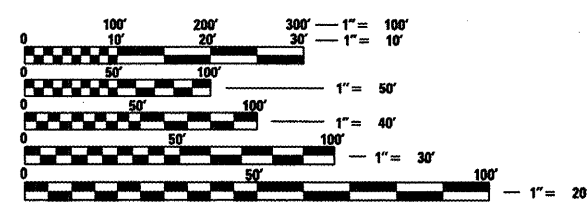
**PROPOSED
HIGHWAY PLANS**

FAI 39 (I-39)
SECTION (62-2HB-2)I
BRIDGE DECK WATERPROOFING
MARSHALL COUNTY
PROJECT IM-039-1(027)035



- INDEX OF SHEETS:
1. COVER SHEET
 2. COMMITMENTS & GENERAL NOTES
 3. SUMMARY & SCHEDULE OF QUANTITIES
 4. GENERAL LAYOUT
 5. GENERAL PLAN AND ELEVATION
 - 6-7 PROPOSED TRAFFIC CONTROL
 8. CROSS SECTIONS
 9. REMOVAL AND REPLACEMENT

- STANDARDS:
- | | | |
|-----------|-----------|-----------|
| 420001-07 | 609001-04 | 701601-06 |
| | 701001-02 | 701901-01 |
| 606001-04 | 701006-03 | |
| 606301-04 | 701201-03 | |

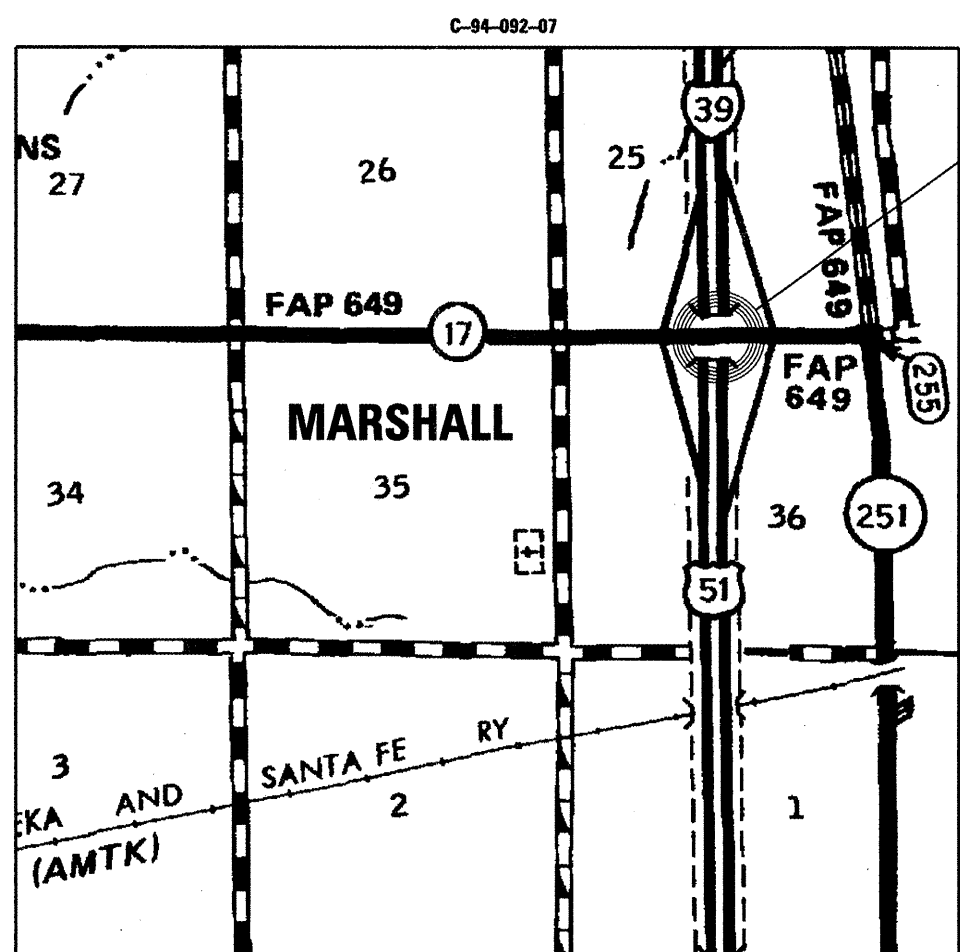


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER- JIM MILLER
PROJECT MANAGER- MAUREEN ADDIS

CONTRACT NO. 68729 CAT. NO. 033543-00D



LOCATION MAP

PROJECT CONSISTS OF REMOVAL & REPLACEMENT OF BRIDGE APPROACH SHOULDERS & MEDIAN AND CONCRETE SEALER APPLICATION ON STRUCTURE (SN.062-0050), CARRYING IL.17 OVER I-39

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED *March 18, 2009*

[Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 8, 2009
Charles G. Ingersoll
ENGINEER OF DESIGN AND ENVIRONMENT

May 8, 2009
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

COMMITMENTS

No commitments have been made for this project.

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.

The deck seal product shall be applied to the cleaned surface from beginning of bridge approach to end of opposite approach. Surface preparations as described in the special provisions are incidental to sealing method specified.

Median and shoulder removal shall be done with jack hammer method for the length of the deck. Removal shall not extend beyond the bridge approaches. Existing reinforcement anchors bars joining the median to the deck shall be cleaned, straightened and remain to be tied into new epoxy-coated median reinforcement.

Median concrete shall be constructed according to section 503.16 of the Standard Specifications and replaced with superstructure (bridge mix). Apply sealer to approaches, deck, parapets, and new approach median and shoulders, using directives 503.19.

SN.062-0050
IL.17 over I-39

FILE NAME = SN062-005028.5N062-0050-IL.17ovr I-39	USER NAME = jonesce	DESIGNED - CEJ	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COMMITMENTS & GENERAL NOTES	F.A.P. RTE. 412	SECTION 62-2HB-211	COUNTY MARSHALL	TOTAL SHEETS 9	SHEET NO. 2	
PLOT SCALE = 103.7051' / IN.	CHECKED - ---	REVISED - ---	SCALE: -----			SHEET NO. --- OF --- SHEETS	STA. ----- TO STA. -----	SILOXANE SEALER APPLICATION			
PLOT DATE = 2/10/2009	DATE - -----	REVISED - ---	FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT								
CONTRACT NO. 68729											

SCHEDULE OF QUANTITIES

MOBILIZATION

LOCATION	LSUM
PROJECT LOCATION	1

TRAFFIC CONTROL

LOCATION	T.C.&P. SPECIAL (LSUM)	T.C.SURVEILLANCE (CAL DA)
DECK & APPR.	1	1

CONCRETE MEDIAN REMOVAL

LOCATION	SOFT
MEDIAN	1620

BRIDGE APPROACH SHOULDER REMOVAL

LOCATION	SOYD
APPR. SHLDRS.	53

REINFORCEMENT BARS, EPOXY COATED

LOCATION	LB
APPR. SHLDRS.&MED.	2094
DECK MEDIAN	3840
TOTAL	5934

TIE BARS

LOCATION	EA
LONGI. SHLDR. JTS.	112

CONCRETE SUPERSTRUCTURE

LOCATION	CUYD
MEDIAN	30

PRISMATIC CURB REFLECTORS

LOCATION	EA
MEDIAN	32

PCC BRIDGE APPROACH SHOULDER PAVEMENT

LOCATION	SOYD
APPR. SHLDRS.	53

WORKZONE PAVEMENT MARKING REMOVAL

LOCATION	SOFT
BRIDGE SURFACES	537

SILANE SURFACE SEALER

LOCATION	SOYD
BRIDGE SURFACES	2200

SUMMARY OF QUANTITIES

90% FED. SAFETY-2A
10% STATE MARSHALL COUNTY

CODE NO.	ITEM	UNIT	RURAL	TOTAL
50300255	CONCRETE SUPERSTRUCTURE	CUYD	44.8	44.8
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3910	3910
67100100	MOBILIZATION	LSUM	1	1
70101800	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	15	15
70301000	WORKZONE PAVEMENT MARKING REMOVAL	SOFT	537	537
78200300	PRISMATIC CURB REFLECTOR	EACH	32	32
X0300136	BRIDGE APPROACH SHOULDER REMOVAL	SOYD	53	53
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	600	600
50102400	CONCRETE REMOVAL	CUYD	30	30
Z0075300	TIE BARS	EACH	44	44
X0326443	SILANE SURFACE SEALER	SOYD	2200	2200

SN.062-0050
IL.17 over I-39

SN.062-0050
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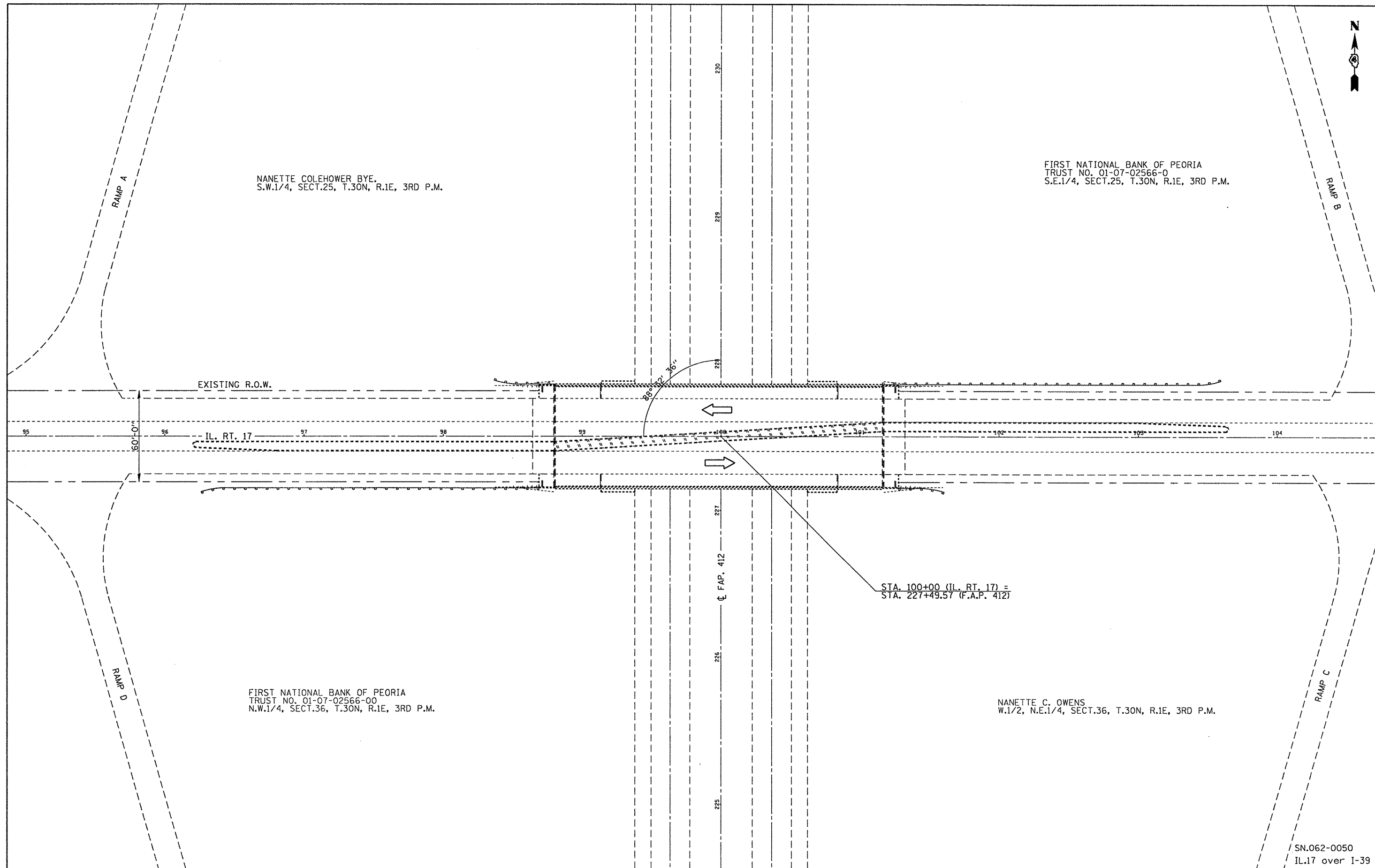
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SN062-005028.SN062-0050-IL.17 over I-39		DRAWN - CEJ	REVISED - ---
		CHECKED - ---	REVISED - ---
		DATE - 02/26/2009	REVISED - ---
PLOT SCALE = 1/4" = 1'-0" IN.			
PLOT DATE = 3/11/2009			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: _____ SHEET NO. ____ OF ____ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
412	(62-2HB-2)I	MARSHALL	9	3
SILOXANE SEALER APPLICATION			CONTRACT NO. 68729	
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT				



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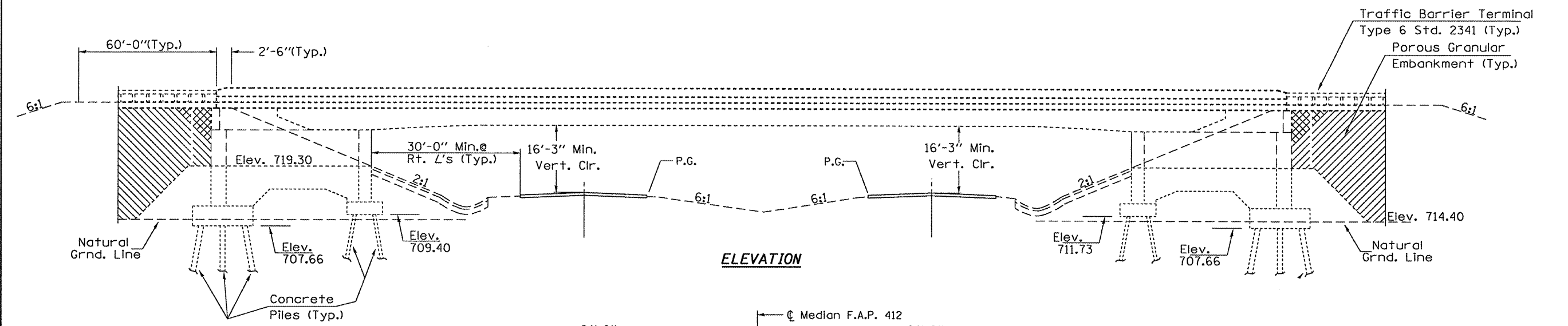
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

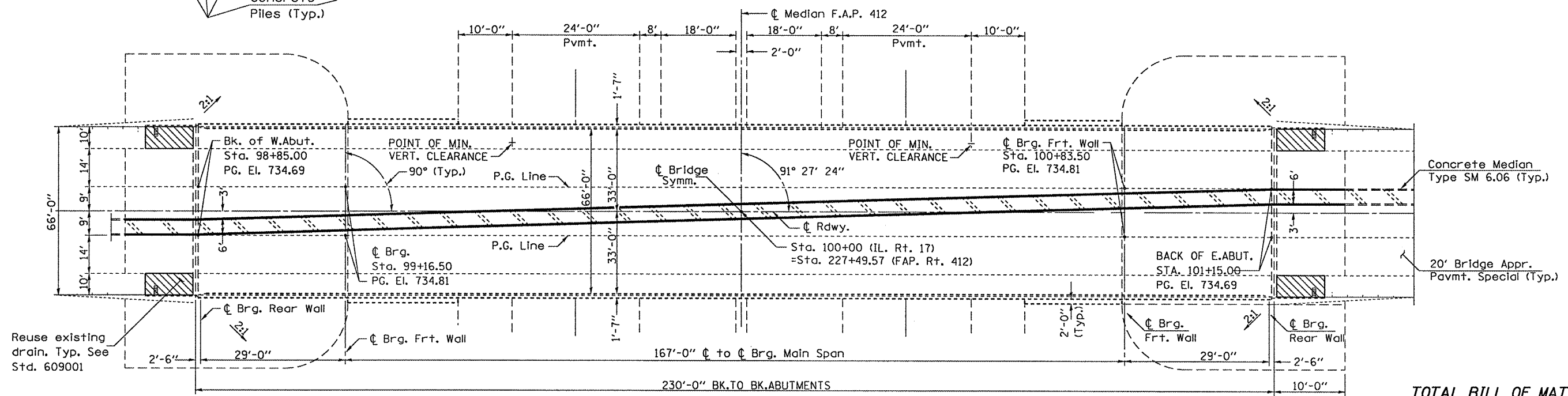
SCALE: -----	SHEET NO. ___ OF ___ SHEETS	STA. ----- TO STA. -----
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
412	(62-2HB-2)I	MARSHALL	9	4
CONTRACT NO. 68729				

SN.062-0050	
IL.17 over I-39	
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT	



ELEVATION



PLAN

TOTAL BILL OF MATERIAL

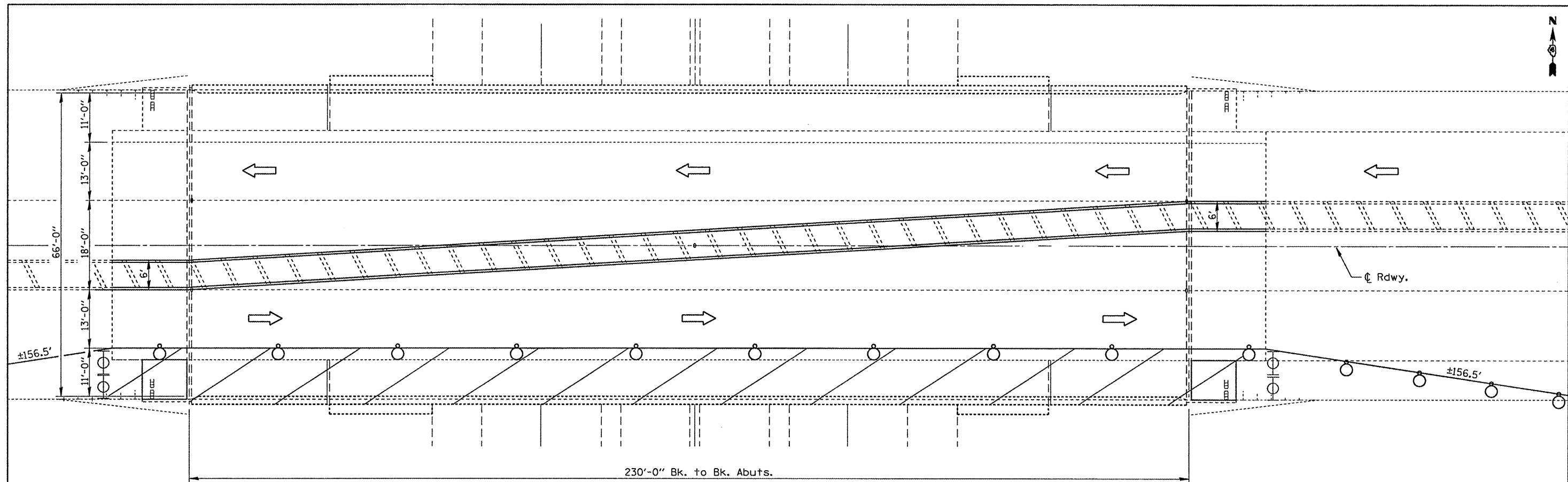
Item	Unit	Qty.
Bridge Approach Shoulder Removal	SQ YD	53
Concrete Removal	CU YD	30
Concrete Superstructure	CU YD	44.8
Reinforcement Bars, Epoxy Coated	LB	3910
Pvmt. Mrkg. Tape, Type III, 4"	FT	600
Prismatic Curb Reflector	EA	32
Tie Bars	EA	44
Silane Surface Sealer	SQ YD	2200



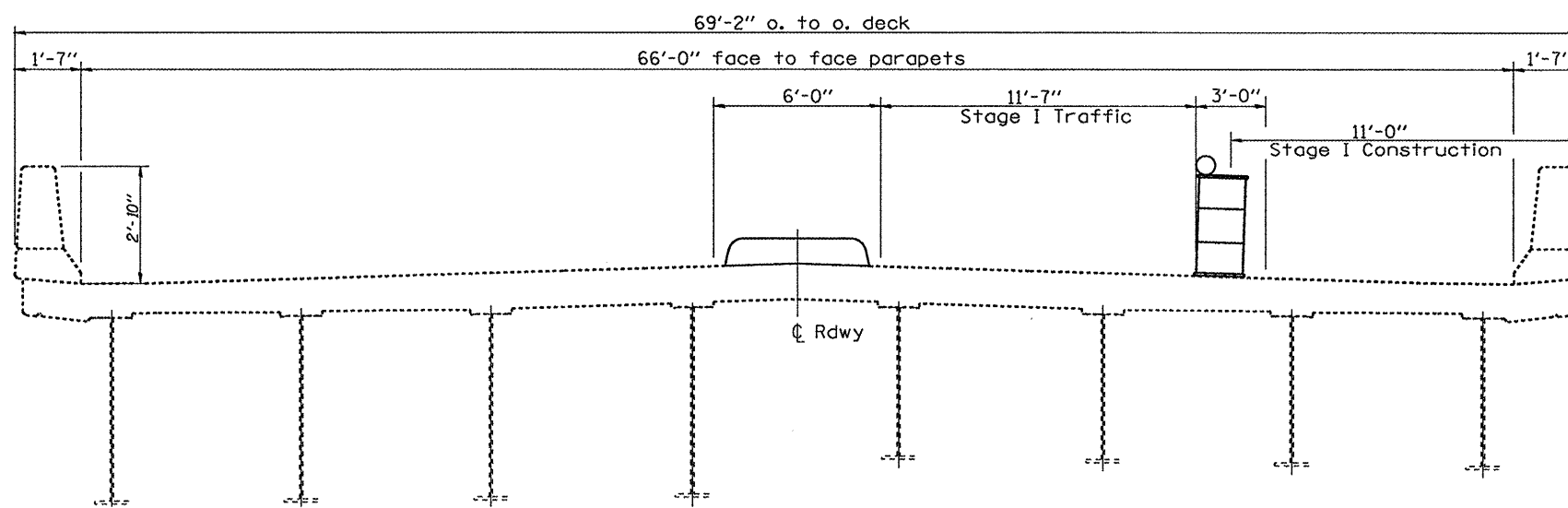
EXPIRES 11-30-2010

NOTE
Surfaces to be cleaned and treated with sealer include the bridge deck, approaches and shoulders, median, curbs, and the inside face and top surface of the parapet walls.

FILE NAME =	USER NAME = #USER#	DESIGNED - CEJ	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#68729 SN062-0050 IL17ovr I-39		DRAWN - CEJ	REVISED - ---			412	(62-2HB-2II)	MARSHALL	9	5
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PLOT DATE = #DATE#		DATE - 01/26/2009	REVISED - ---			FED. ROAD DIST. NO. 4 (ILLINOIS) FED. AID PROJECT				



PLAN



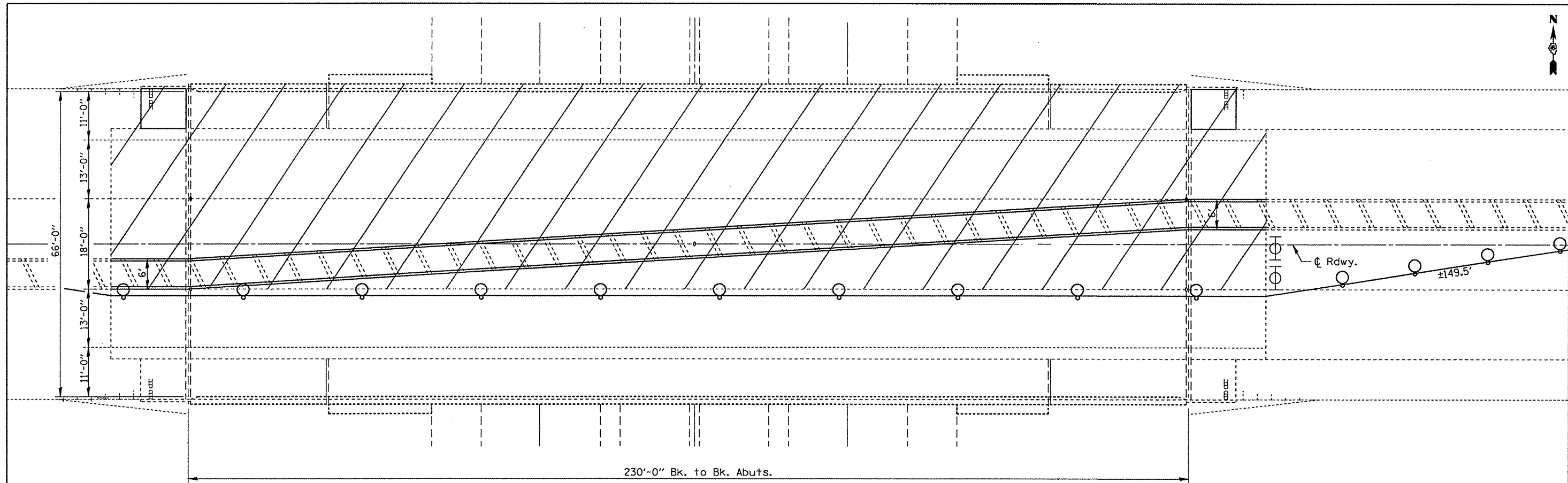
CROSS SECTION
(Looking East)

- LEGEND**
- Work Area
 - Barricade or Drum w/steady burn monodirectional light
 - Temporary Striping
 - Temporary Traffic
 - Type II Barricade w/Flashing Light

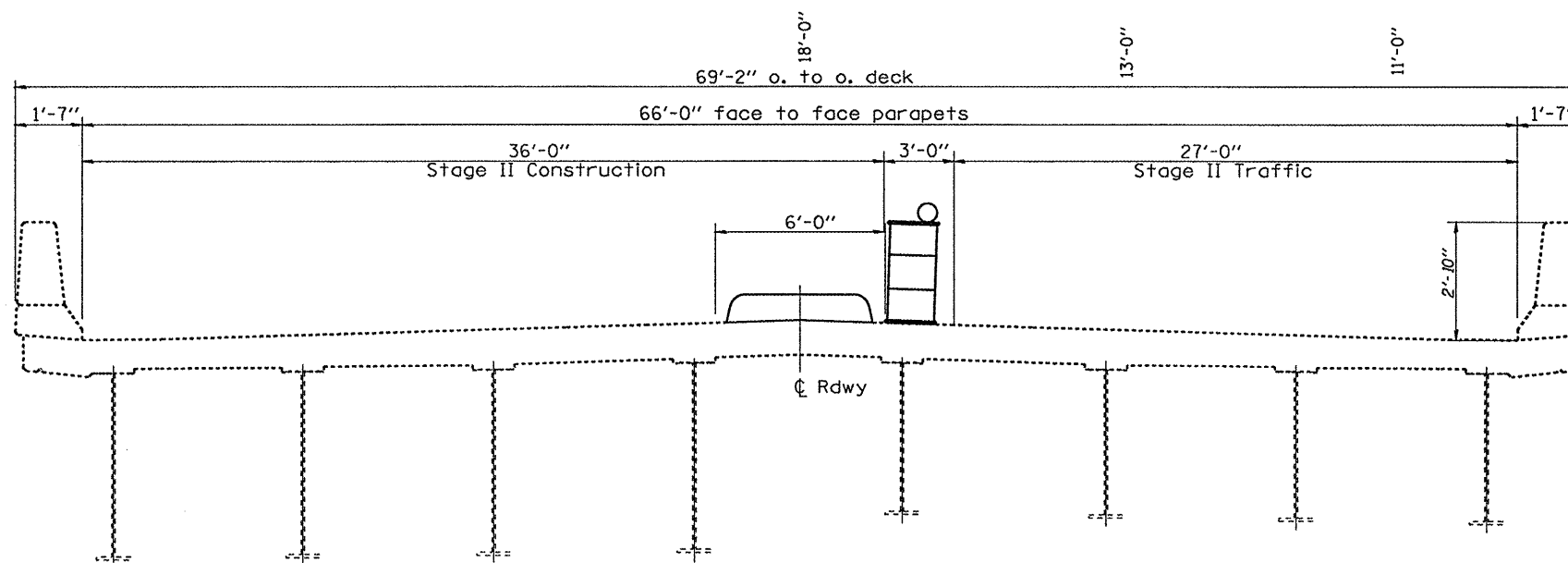
NOTES
 Refer to Traffic Control and Protection Special for required traffic management devices and other clarifications. Proposed construction staging sequence shall be at the discretion of the Engineer.
 Reflectorized temporary pavement marking tape shall be included to create temporary traffic lane shift during shoulder repair.

SN.062-0050
 IL.17 over I-39

FILE NAME : *FILEL#68729 SN062-0050 IL.17ovr I-39	USER NAME : *USER*	DESIGNED - CEJ	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED TRAFFIC CONTROL	F.A.P. RTE. 412	SECTION (62-2HB-2)II	COUNTY MARSHALL	TOTAL SHEETS 9	SHEET NO. 6
PLOT SCALE : *SCALE*	CHECKED - ---	REVISIED - ---	REVISIED - ---			CONTRACT NO. 68729				
PLOT DATE : *DATE*	DATE - 01/26/2009	REVISIED - ---	REVISIED - ---			FED. ROAD DIST. NO. 4 [ILLINOIS] FED. AID PROJECT				
						SCALE: _____ SHEET NO. ____ OF ____ SHEETS STA. _____ TO STA. _____				



PLAN



CROSS SECTION
(Looking East)

LEGEND

- Work Area
- Barricade or Drum w/steady burn monodirectional light
- Temporary Striping
- Temporary Traffic
- Type II Barricade w/Flashing Light

NOTES

Refer to Traffic Control and Protection Special for required traffic management devices and other clarifications. Proposed construction staging sequence shall be at the discretion of the Engineer. Reflectorized temporary pavement marking tape shall be included to create temporary traffic lane shift during median repair. Barricades or Drums shall be pulled back toward median at end of workday and remain until work begins in order to lighten traffic load on shoulders as much as possible.

SN.062-0050
IL.17 over I-39

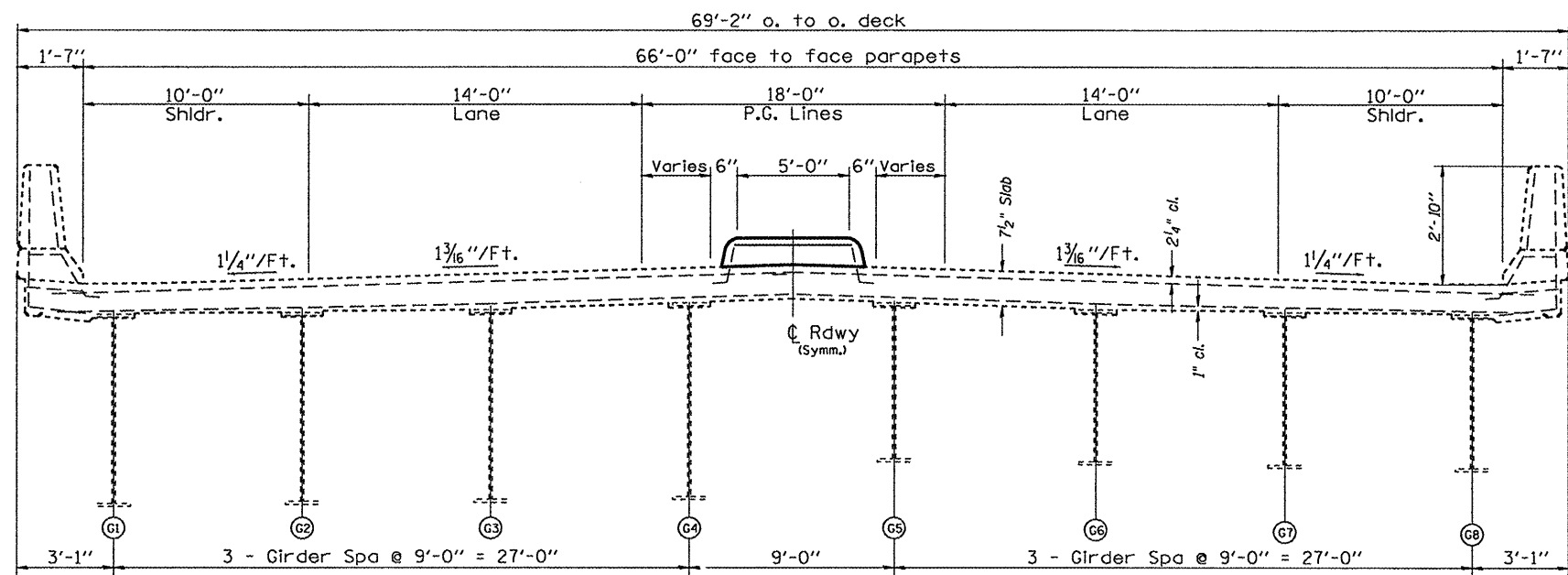
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PLOT DATE = *DATE*		DATE - 01/26/2009	REVISED - ---

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC CONTROL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
412	(62-2HB-2)I	MARSHALL	9	7
CONTRACT NO. 68729			FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT	

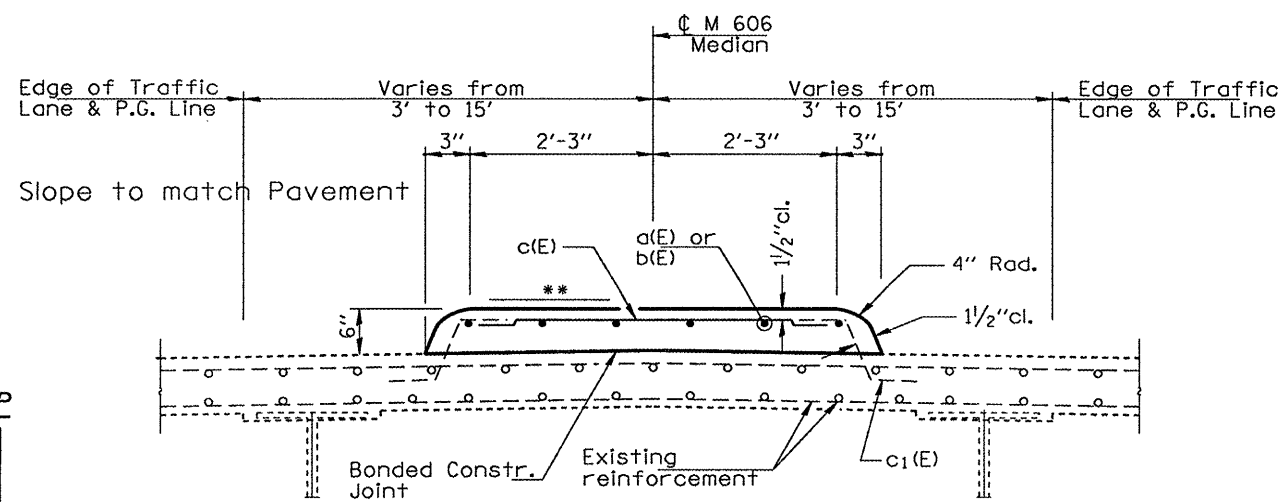
SCALE: _____ SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____



NEAR ABUTS.

NEAR MIDSPAN

TRAFFIC & CONTROL
(Looking East)



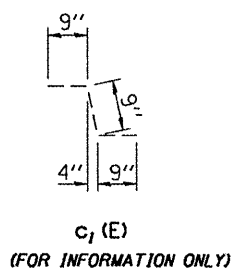
MEDIAN SECTION
(see Std. 606301)

MIN. BAR LAP

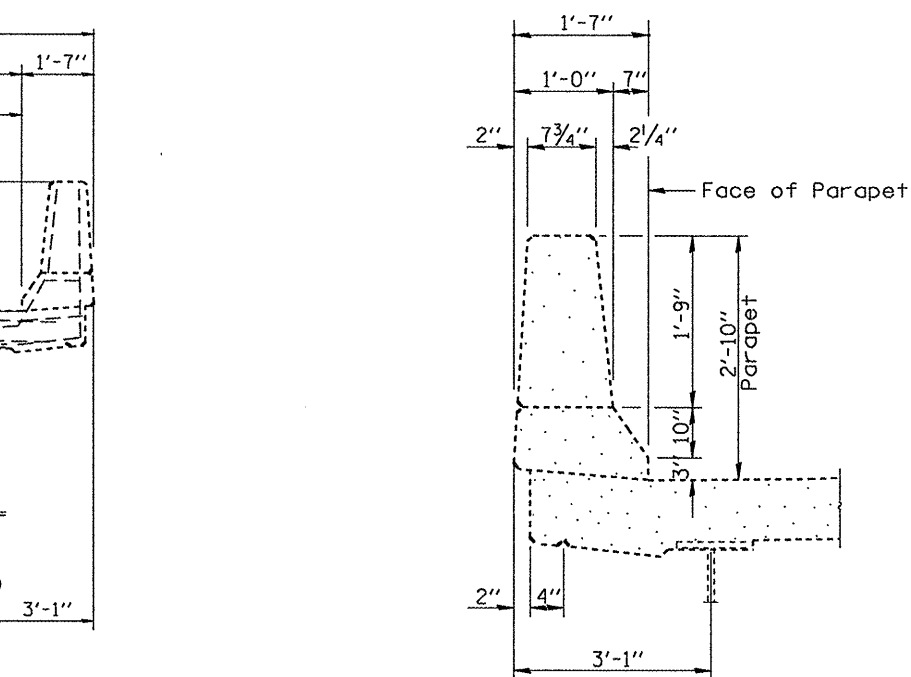
#4 - 1'-8"
#5 - 2'-2"
#6 - 2'-7"
#8 - 4'-6"

NOTE

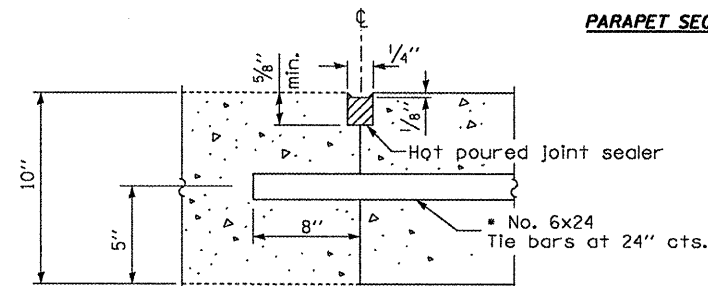
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
Reinforcement bars designated (E) shall be epoxy coated.
Existing median reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.



c₁(E)
(FOR INFORMATION ONLY)

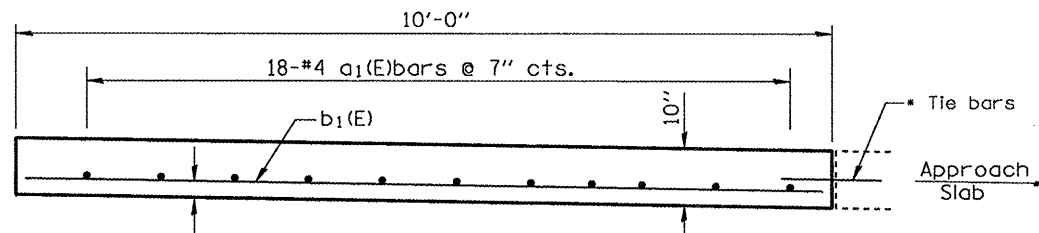


PARAPET SECTION



DETAIL A
LONGITUDINAL CONSTRUCTION JOINT
(TIE BAR GROUTED IN PLACE)

* Epoxy grout tie bars in 8" min. holes according to Article 584 of the Standard Specifications. Cost included with Tie bars.



APPROACH SHOULDER SECTION
(see Detail A)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	10	#4	19'-6"	---
a ₁ (E)	72	#4	11'-8"	---
b(E)	48	#5	30'-9"	---
b ₁ (E)	84	#4	9'-8"	---
c(E)	272	#5	4'-0"	---
Concrete Superstructure				CU YD 44.8
Reinforcement Bars, Epoxy coated				LB 3910

SN.062-0050
IL.17 over I-39

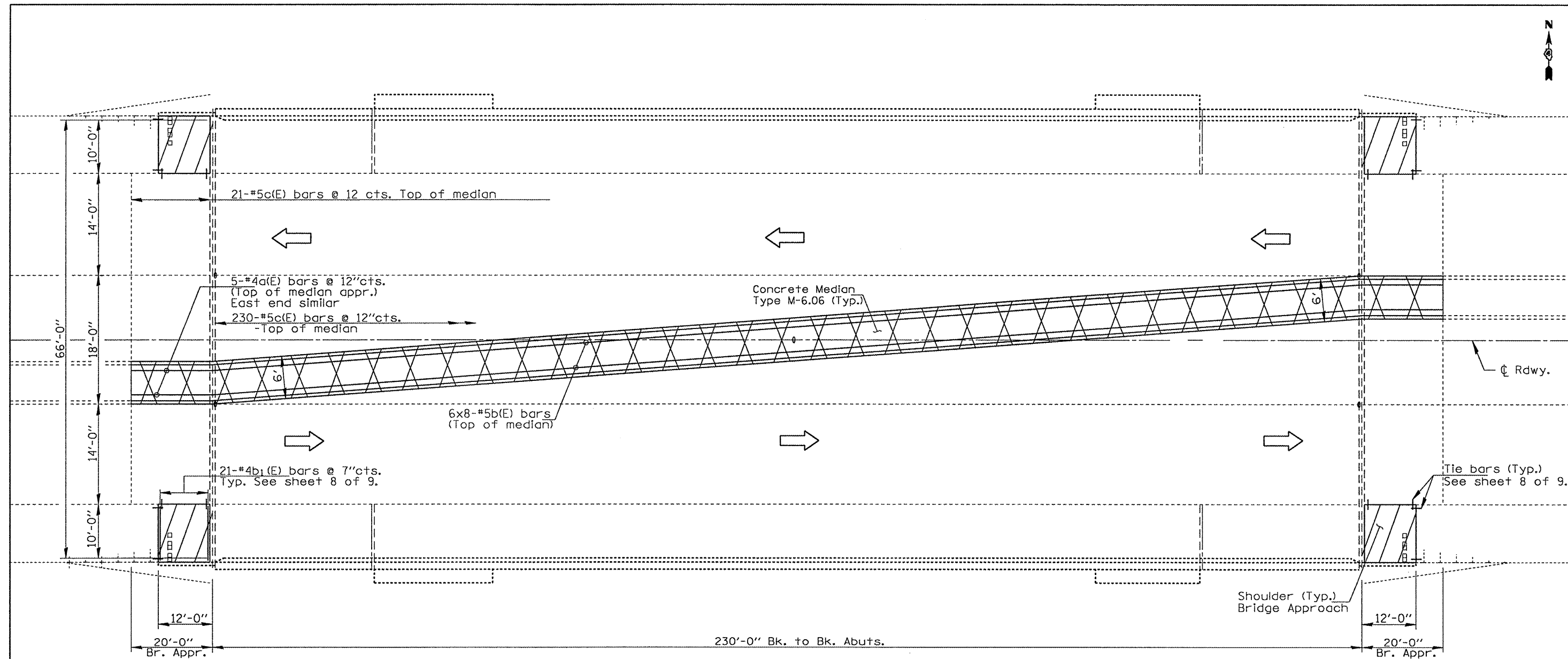
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		DATE - 01/26/2009	REVISED - ---

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

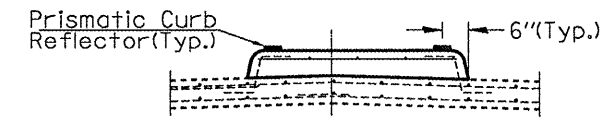
CROSS SECTIONS

SCALE: _____ SHEET NO. _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
412	(62-2HB-21)	MARSHALL	9	8
CONTRACT NO. 68729				
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT				



PLAN



Reflector Placement

- Median areas for Removal and Replacement. Cost included with Concrete Removal and Concrete Superstructure.
- Approach shoulder areas for Removal and Replacement. Cost included with Bridge Approach Shoulder Removal and Concrete Superstructure.

NOTES
 Prismatic curb reflectors shall be placed on median curb top surfaces for the length of the deck at 15' intervals and 2' from median centerline. They shall be installed according to Article 782 of the Standard Specifications prior to sealer application. Adhesive cost shall be incidental to reflector installation. Existing inlet, frame, and grate are to remain in place. (see Bridge Approach Shoulder Pavement and Drain Std. 609001)

SN.062-0050
 IL.17 over I-39

FILE NAME =	USER NAME = #USER#	DESIGNED - CEJ	REVISED - ---
#FILE#68729 SN062-0050 IL.17ovr I-39		DRAWN - CEJ	REVISED - ---
	PLOT SCALE = #SCALE#	CHECKED - ---	REVISED - ---
	PLOT DATE = #DATE#	DATE - ---	REVISED - ---

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

REMOVAL & REPLACEMENT

NOT TO SCALE SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
412	(62-2HB-2)I	MARSHALL	9	9
FED. ROAD DIST. NO. 4 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 68729	