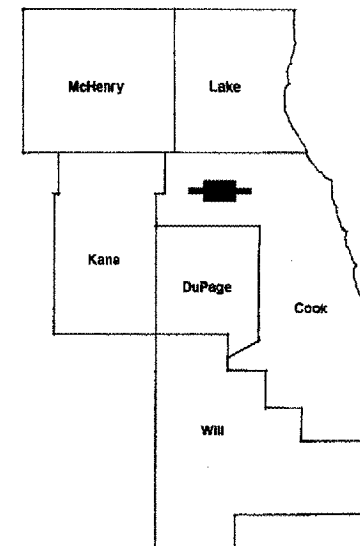


ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAP 341	32-1VB-I-1	COOK	19	1

FOR INDEX OF SHEETS SEE SHEET 2

CONTRACT NO. 60B65

D-91-388-06



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

FAP 341:IL 72 (HIGGINS RD)
LOC 1) OVER I-90 (NORTHWEST TOLLWAY)
LOC 2) OVER EJ & E RR
DECK OVERLAY (ANTI-ICING SYSTEM)
SECTION: 32-1VB-I-1
PROJECT:
COOK COUNTY
C-91-388-06

**IMPROVEMENT IS LOCATED IN THE
VILLAGES OF HOFFMAN ESTATES
BARRINGTON HILLS & SOUTH BARRINGTON**

TRAFFIC DATA: (I-90)
SPEED LIMIT = 55 MPH
2006 ADT = 121,100

TRAFFIC DATA: (IL-72)
SPEED LIMIT = 55 MPH
2006 ADT = 24,200

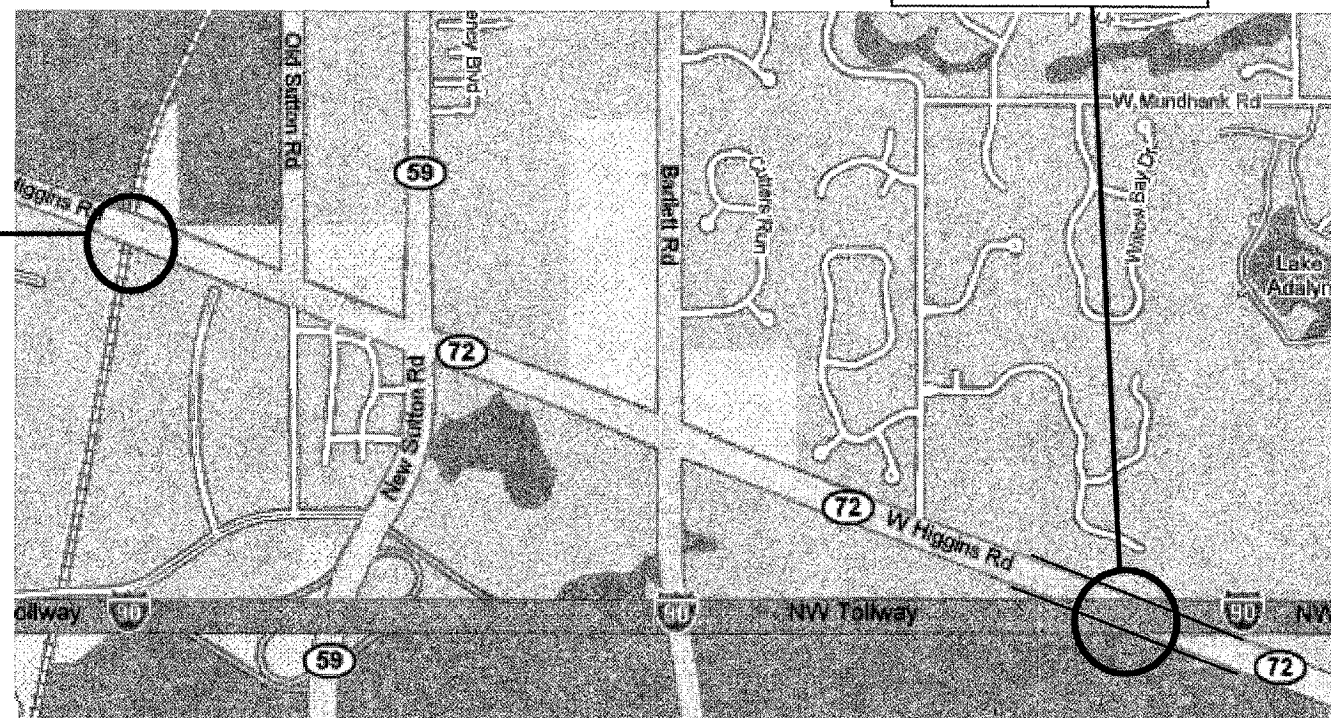
**IMPROVEMENT
LOCATION 1
SN: 016-0503, -2469**

LOCATION OF IMPROVEMENT INDICATED THUS:

R 9 E

**IMPROVEMENT
LOCATION 2
SN: 016-0502, -2596**

T 41 N



DISTRICT ONE - DESIGN - PLAN PREPARATION ENGINEER:
KEN ENG / ROBERT BORO (847) 705-4178

CONTRACT NO. 60B65

BARRINGTON AND HANOVER TOWNSHIPS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED: March 26 2007
Diane O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 11, 2007
Eric E. Harvey
ENGINEER OF DESIGN AND ENVIRONMENT

May 11, 2007
Milton R. Sees, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

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

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAP 341	32-1VB-I-1	COOK	19	2

CONTRACT 60B65

INDEX OF SHEETS

STATE STANDARDS

<u>SHEET NO</u>	<u>DESCRIPTION</u>	<u>STANDARD NO</u>	<u>DESCRIPTION</u>
1	TITLE SHEET	701301-02	LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
2	INDEX OF SHEETS, STATE STANDARDS	701400-02	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
3	GENERAL NOTES	701401-03	LANE CLOSURE, FREEWAY/EXPRESSWAY
4	SUMMARY OF QUANTITIES	701411-03	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
5 - 11	BRIDGE REPAIR DETAILS (Loc 1 – SN's 016-0503, -2469)	701601-04	URBAN LANE CLOSURE MULTILANE, 1W, 2W, WITH NONTRAVERSABLE MEDIA
12 - 13	BRIDGE REPAIR DETAILS (Loc 2 – SN's 016-0502, -2596)	702001-06	TRAFFIC CONTROL DEVICES
14 - 17	TRAFFIC STAGING DETAILS		
18	TRAFFIC CONTROL DETAILS FOR SIDE ROADS, INTERSECTIONS & DRIVEWAYS		
19	DISTRICT ONE TYPICAL PAVEMENT MARKINGS		

ILLINOIS DEPARTMENT OF
TRANSPORTATION

INDEX OF SHEETS
STATE STANDARDS

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAP 341	32-1VB-I-1	COOK	19	3

CONTRACT 60B65

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE." (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION) AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED).

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE OR TOLLWAY PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 (FOR ARTERIALS) AND ISTHA DAILY TRAFFIC CONTROL AUTHORIZATION AT (630) 241-6800 EXT. 3822 (FOR TOLLWAYS) A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORKS.

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.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

THE ENGINEER SHALL CONTACT WALLY CZARNY TRAFFIC FIELD ENGINEER (OR TECHNICIAN), AT (773) 685-4342 TWO (2) WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

THE "ADVANCED WARNING SIGN DETAIL FOR ARTERIAL TRAFFIC" LOCATED IN THE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING FOR LANE CLOSURES" IS APPLICABLE ONLY TO ARTERIAL ROADS AND SHALL NOT BE APPLIED TO TOLLWAYS.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM BRIDGE INSPECTORS.

ILLINOIS DEPARTMENT OF
TRANSPORTATION

GENERAL NOTES

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAP 341	32-1VB-I-1	COOK	19	4

CONTRACT 60B65

SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE SFTY-2A
 ← BHF → | ← F →

CODE NUMBER	DESCRIPTION	UNIT	TOTAL	CONSTRUCTION TYPE CODE SFTY-2A			
				Location 1	Location 2	Location 1	Location 2
				016-0503	016-2469	016-0502	016-2596
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	1	1	1	1
67100100	MOBILIZATION	L SUM	1	0.25	0.25	0.25	0.25
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	0.25	0.25	0.25	0.25
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	1918	705	754	231	228
* 78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	14	0	0	0	14
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	8	0	0	4	4
X0322066	PROTECTIVE SHIELD (PERMANENT)	SQ YD	1672	812	860	0	0
X0322467	TEMPORARY INFORMATION SIGNING FOR LANE CLOSURE	SQ FT	96	24	24	24	24
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	0.5	0.5	0	0
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	3.7	0	3.7	0	0
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	189.2	175.8	13.4	0	0
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	0	0	0.5	0.5
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	19	17.6	1.4		
* X0325765	ANTI-ICING SURFACE OVERLAY	SQ YD	5868	2030	2170	721	947

* SPECIALTY ITEMS

ILLINOIS DEPARTMENT OF TRANSPORTATION

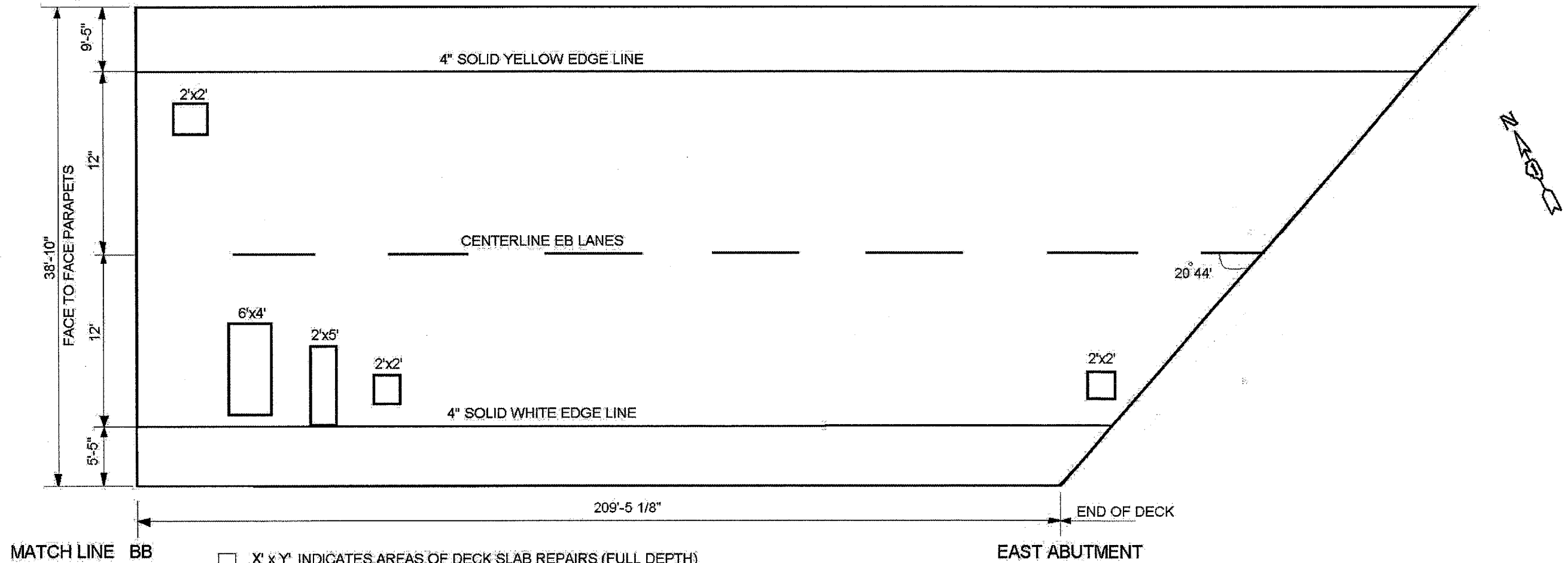
SUMMARY OF QUANTITIES

Rev .

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAP 341	32-1VB-I-1	COOK	19	5

CONTRACT No. 60B65

1 OF 7



□ X' x Y' INDICATES AREAS OF DECK SLAB REPAIRS (FULL DEPTH)
 AREAS ARE ESTIMATED, ACTUAL AREAS TO BE SHOWN
 ON AS-BUILT PLANS BY THE ENGINEER.

ANTI-ICING OVERLAY SHALL BE PLACED ON ENTIRE DECK SURFACE
 (FACE TO FACE PARAPETS, END TO END OF DECK)

SHEET 1 OF 2

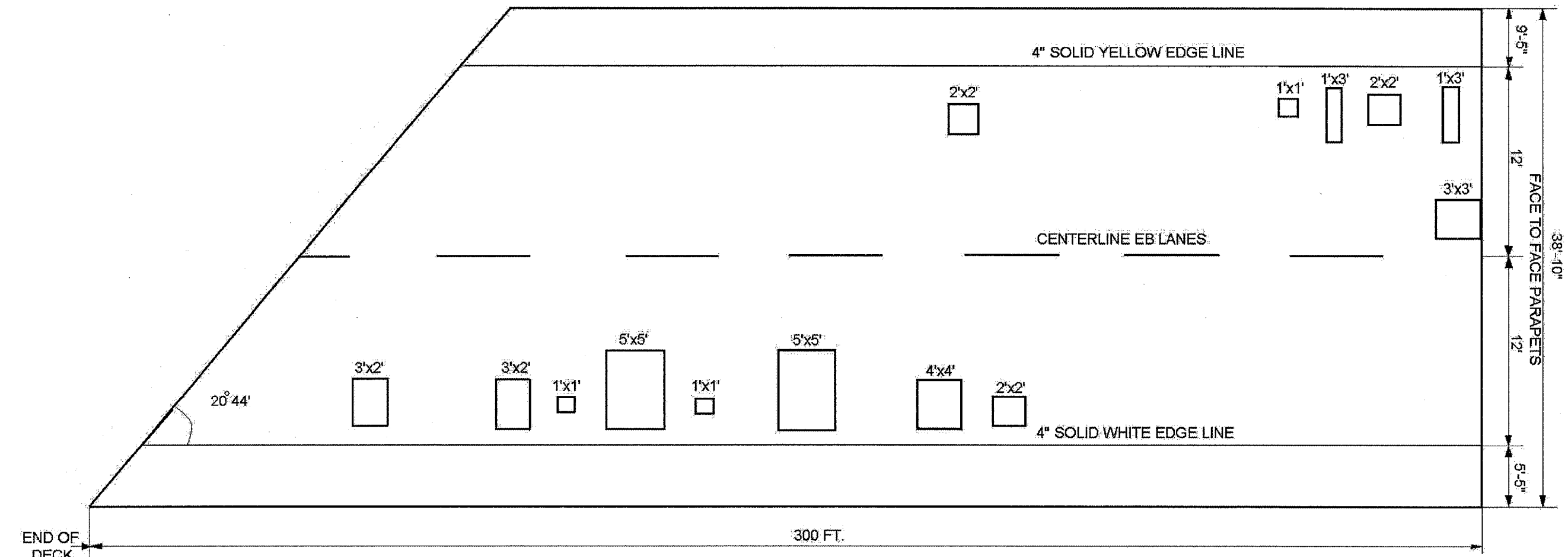
DATE OF SURVEY
 8/9/06 JC

ILLINOIS DEPARTMENT OF
 TRANSPORTATION
 LOCATION 1
 EAST SPAN
 EB IL 72 OVER I-90 (TOLLWAY)
 SN: 016-2469
 STRUCTURAL PLAN

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAP 341	32-1VB-I-1	COOK	19	6

CONTRACT No. 60B65

2 OF 7



END OF DECK
WEST ABUTMENT

□ X' x Y' INDICATES AREAS OF DECK SLAB REPAIRS (FULL DEPTH)
AREAS ARE ESTIMATED. ACTUAL AREAS TO BE SHOWN
ON AS-BUILT PLANS BY THE ENGINEER.

MATCH LINE BB

ANTI-ICING OVERLAY SHALL BE PLACED ON ENTIRE DECK SURFACE
(FACE TO FACE PARAPETS, END TO END OF DECK)

SHEET 2 OF 2

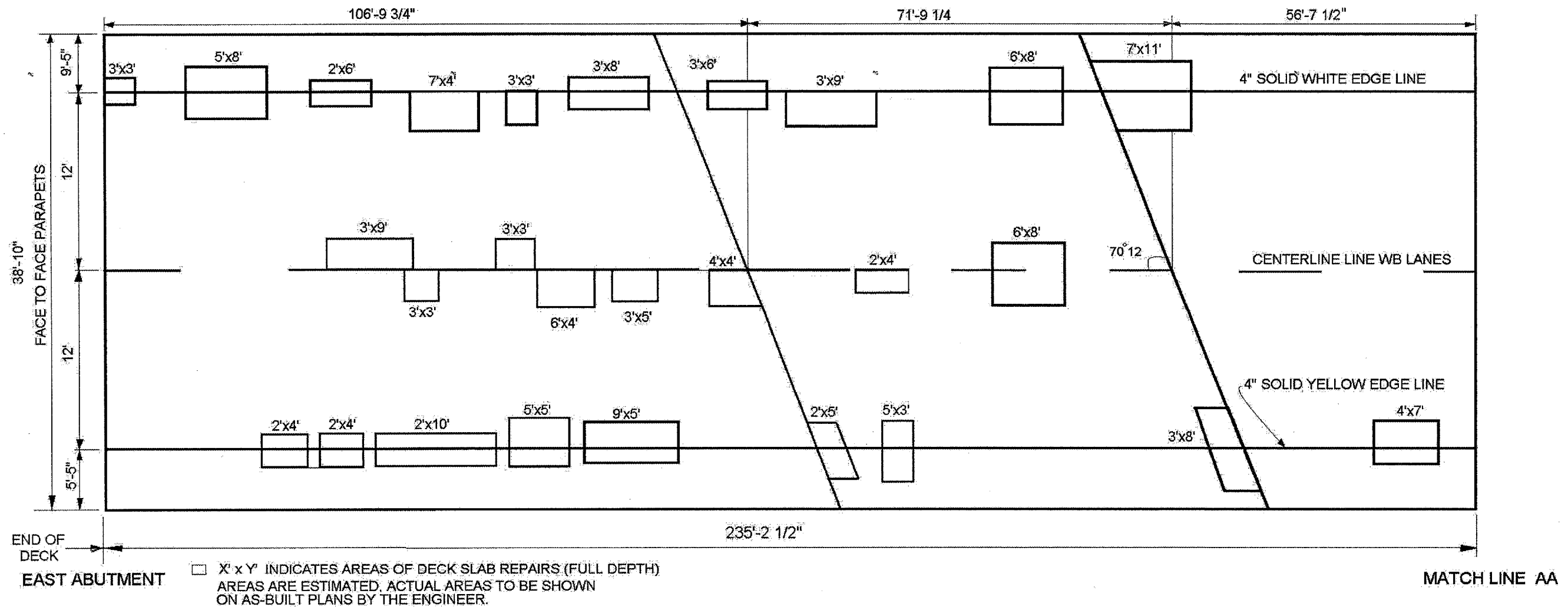
DATE OF SURVEY
8/9/06 JC

ILLINOIS DEPARTMENT OF
TRANSPORTATION
LOCATION 1
WEST SPAN
EB IL 72 OVER I-90 (TOLLWAY)
SN: 016-2469
STRUCTURAL PLAN

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAP 341	32-1VB-I-1	COOK	19	7

CONTRACT No. 60B65

3 OF 7



ANTI-ICING OVERLAY SHALL BE PLACED ON ENTIRE DECK SURFACE
(FACE TO FACE PARAPETS, END TO END OF DECK)

SHEET 1 OF 2

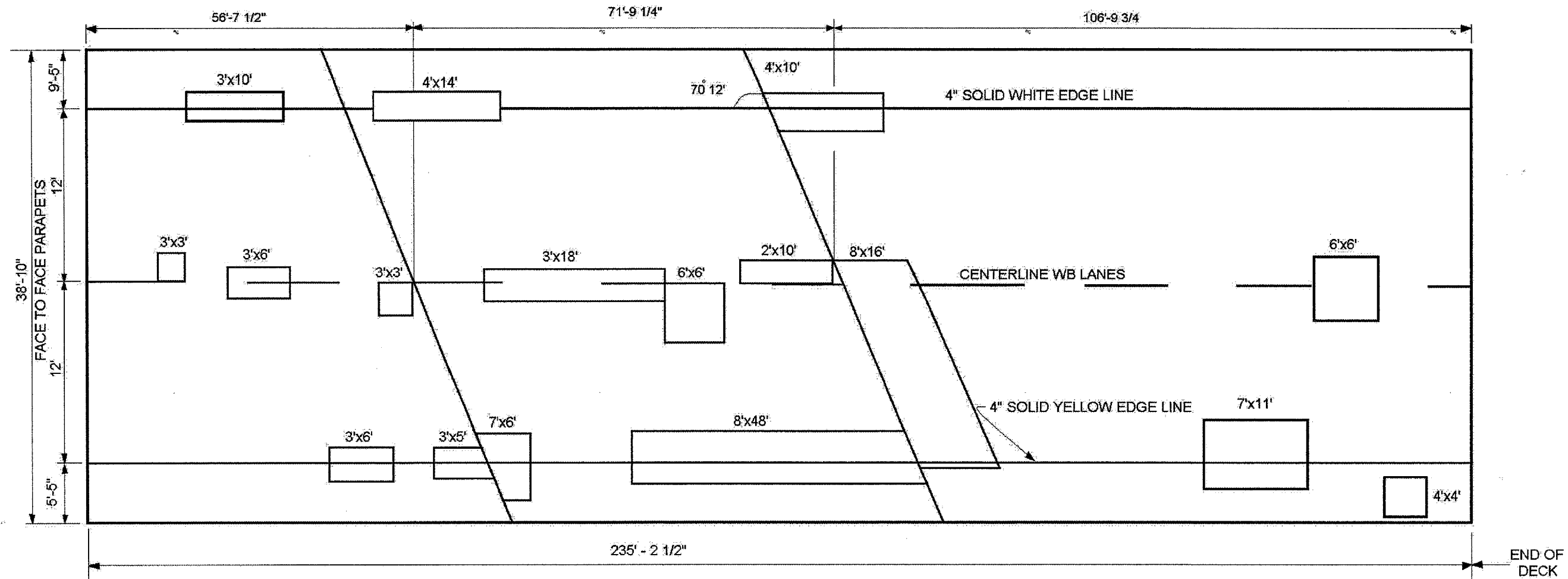
ILLINOIS DEPARTMENT OF
TRANSPORTATION
LOCATION 1
EAST SPAN
WB IL 72 OVER I-90 (TOLLWAY)
SN 016-0503
STRUCTURAL PLAN

DATE OF SURVEY
8/9/06 JC

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAP 341	32-1VB-I-1	COOK	19	8

CONTRACT No. 60B65

4 OF 7



MATCH LINE AA

□ X' x Y' INDICATES AREAS OF DECK SLAB REPAIRS (FULL DEPTH)
AREAS ARE ESTIMATED; ACTUAL AREAS TO BE SHOWN
ON AS-BUILT PLANS BY THE ENGINEER.

WEST ABUTMENT

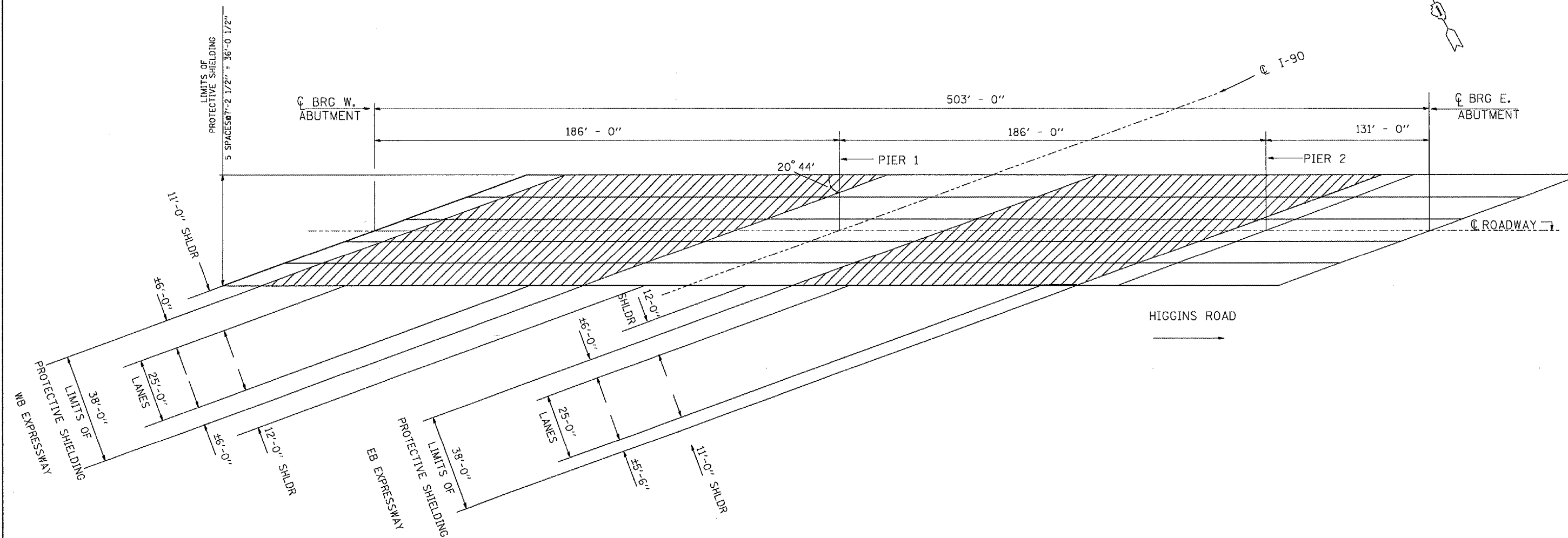
ANTI-ICING OVERLAY SHALL BE PLACED ON ENTIRE DECK SURFACE
(FACE TO FACE PARAPETS, END TO END OF DECK)

SHEET 2 OF 2

DATE OF SURVEY
8/9/06 JC

ILLINOIS DEPARTMENT OF
TRANSPORTATION
LOCATION 1
WEST SPAN
WB IL 72 OVER I-90 (TOLLWAY)
SN 016-0503
STRUCTURAL PLAN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	32-1VB-1-1	COOK	19	9
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



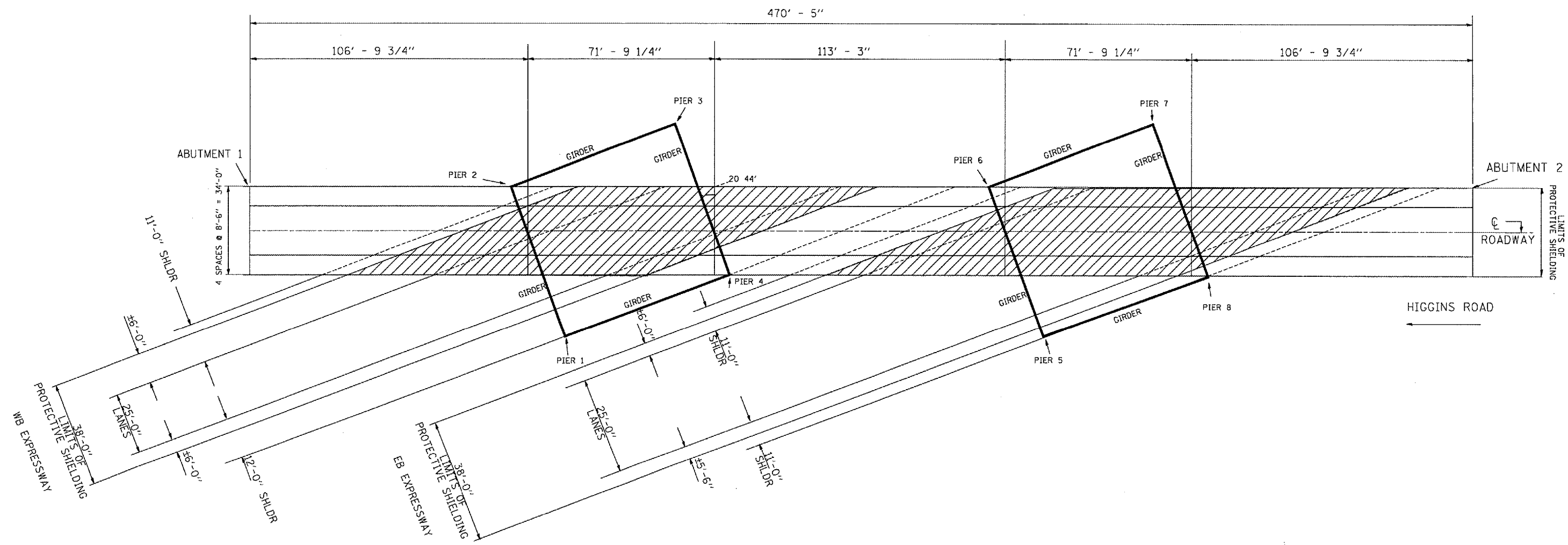
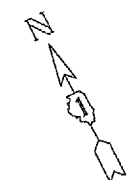
FRAMING PLAN

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 PLOT SCALE = 1/8" = 1'-0"
 USER NAME = mcmahoney

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 STRUCTURE PLAN
 LOCATION 1: 016-2469
 EB HIGGINS ROAD OVER I-90
 SCALE: VERT. _____
 DATE: _____ HORIZ. _____
 DRAWN BY _____
 CHECKED BY _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	32-1VB-I-1	COOK	19	10
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



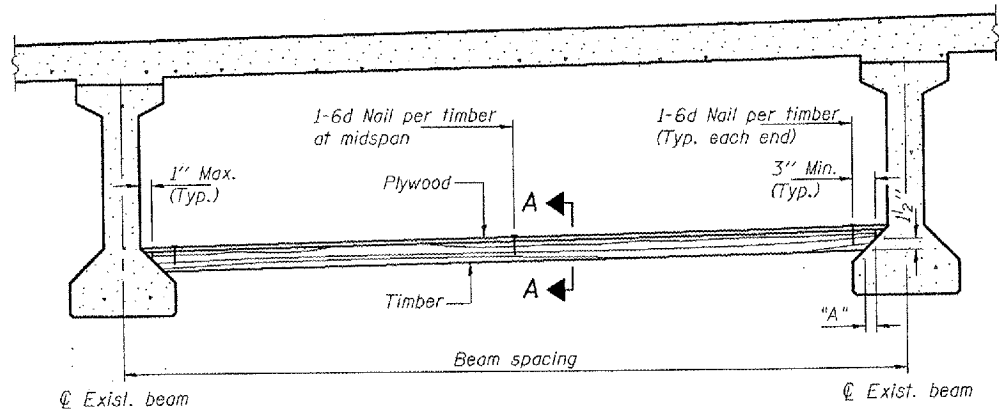
PLAN

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 USER NAME = mitchell

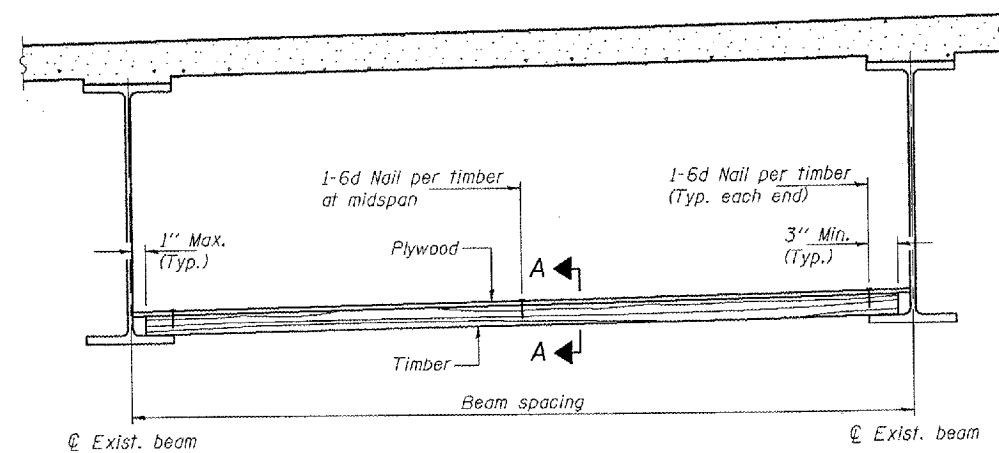
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION STRUCTURE PLAN LOCATION 1: 016-0503 WB HIGGINS ROAD OVER I-90
NAME	DATE	
		VERT. SCALE: HORIZ. DATE DRAWN BY CHECKED BY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

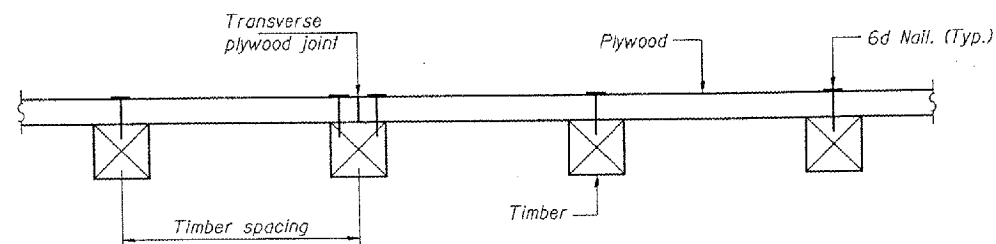
ROUTE NO. 341	SECTION	COUNTY Cook	DATE 19 11	SHEET 7	SHEET NO. 7
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	CONTRACT NUMBER: 60865		



PPC I-BEAMS AND BULB-T's



STEEL BEAMS



SECTION A-A

Notes: See special provision for Permanent Protective Shield System.
Timber sizes shown are nominal sizes. Rough sawn timber of the dimensions shown will also be considered acceptable.
The minimum Fb and Fv values shown are the tabulated design values given in the National Design Specification for Wood Construction for No. 2 Spruce-Pine-Fir without adjustment factors applied. Better grades or other species with equal or higher allowable stresses will also be considered acceptable.
The timber spacings shown have been determined using allowable stresses with all adjustment factors necessary for the anticipated service conditions.
All timber shall be treated.
Plywood shall be 5/8" Exterior type plywood.
Plywood shall be placed such that the face grain is perpendicular to the timber supports. When less than a full sheet (4' width) of plywood is used, the width of the strip used shall not be less than 2'.
Transverse plywood joints shall be supported by timbers.
When 4" x 6" timbers are used, they shall be placed such that the wide face is horizontal and the narrow face is vertical.
Design load = 200 psf.

TIMBER SPACING

Beam Spacing (ft.)	Timber Sizes (in.)		
	4" x 4" with min. Fb=775 psi Fv=135 psi	4" x 6" with min. Fb=775 psi Fv=135 psi	6" x 6" with min. Fb=575 psi Fv=125 psi
	Maximum Timber Spacing (in.)		
4.5	16	16	16
4.75	16	16	16
5.0	16	16	16
5.25	16	16	16
5.5	16	16	16
5.75	16	16	16
6.0	16	16	16
6.25	12	16	16
6.5	12	16	16
6.75	12	16	16
7.0	8	16	16
7.25	8	16	16
7.5	8	16	16
7.75	8	16	16
8.0	8	12	16
8.25	8	12	16
8.5	6	12	12
8.75	6	12	12
9.0	6	8	12

PPC I-BEAMS AND BULB-T's

BEAM	"A"
36" I-Beam	1 1/2"
42" I-Beam	1 1/2"
48" I-Beam	1 1/2"
54" I-Beam	1 5/8"
63" Bulb-T	3 3/8"
72" Bulb-T	3 3/8"

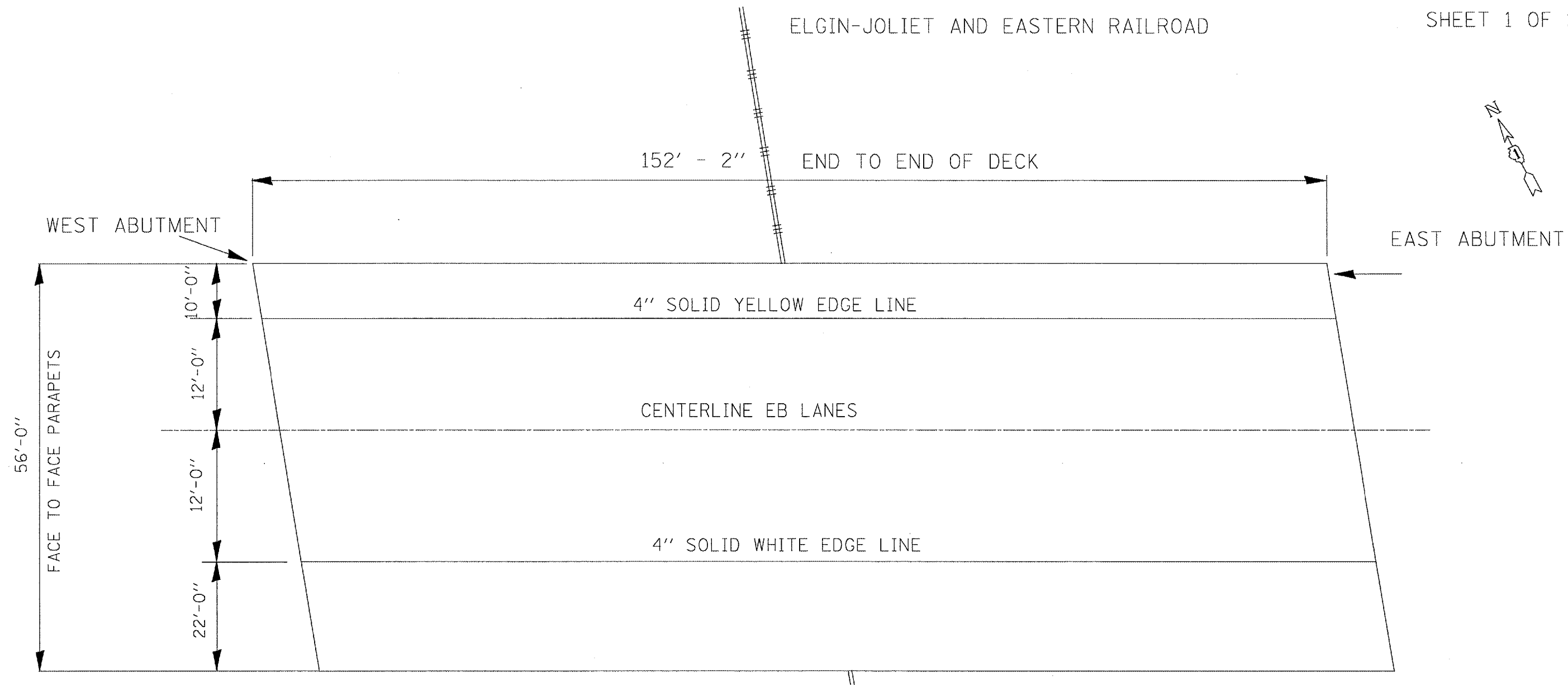
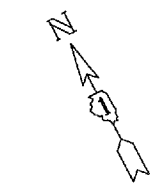
BILL OF MATERIAL

Item	Unit	Total
Protective Shield (Permanent)	Sq. Yd.	1672

PERMANENT PROTECTIVE SHIELD

CONTRACT NO. 60865				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90132-1VB-I-1		COOK	19	12
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SHEET 1 OF 2



ANTI-ICING OVERLAY SHALL BE PLACED ON ENTIRE DECK SURFACE
(FACE TO FACE PARAPETS, END TO END OF DECK)

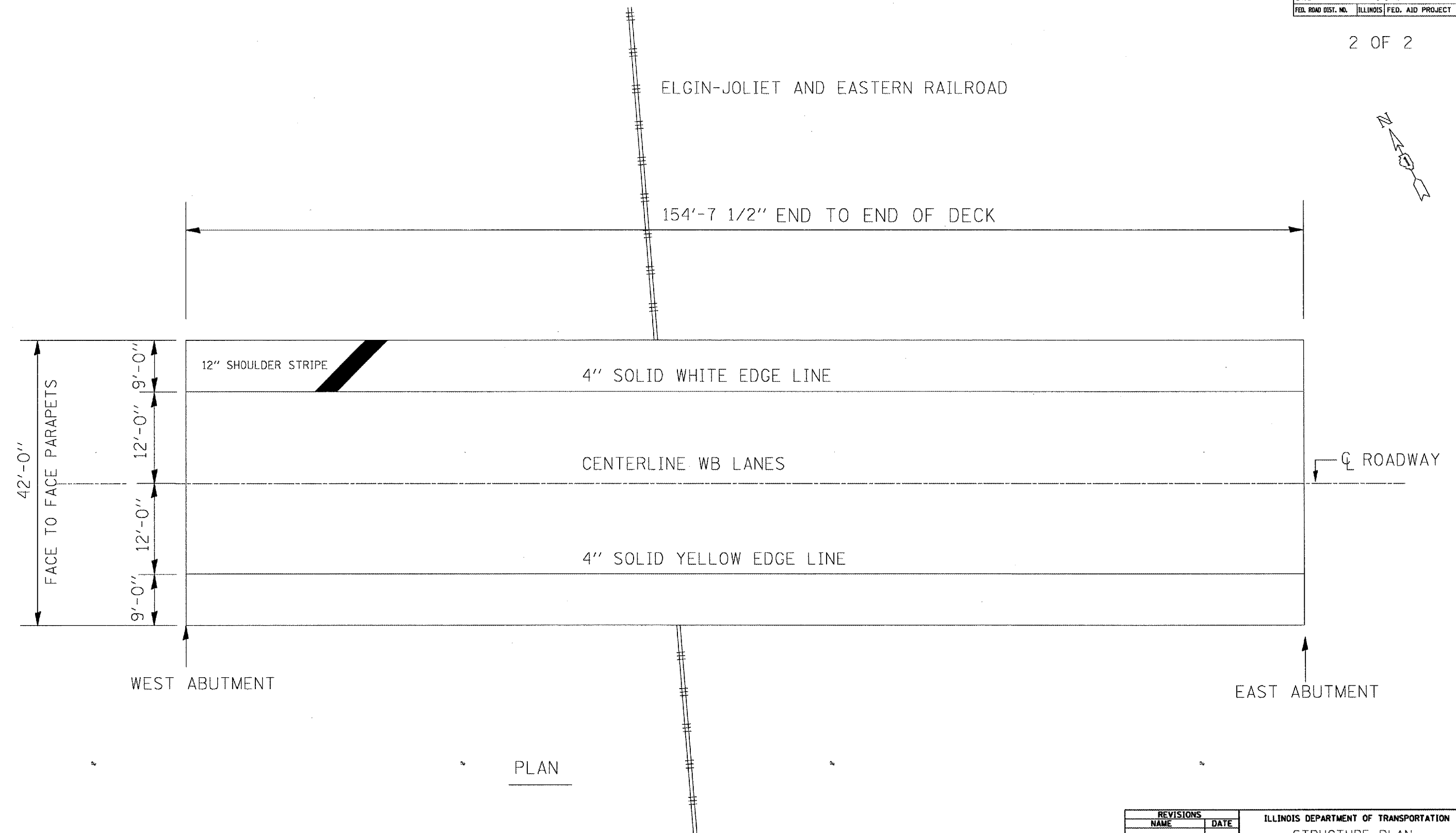
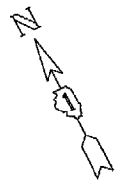
PLAN

PLOT DATE = 5/2/2007
PLOT SCALE = 1/8" = 1'-0"
USER NAME = mtshah11

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE	STRUCTURE PLAN	
		LOCATION 2: SN# 016-2596	
		EB HIGGINS ROAD OVER	
		EJ & E RAILROAD	
		SCALE: VERT.	DRAWN BY
		HORIZ.	CHECKED BY
		DATE	

CONTRACT NO. 60885				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34132-1VB-I-1		COOK	19	13
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

2 OF 2



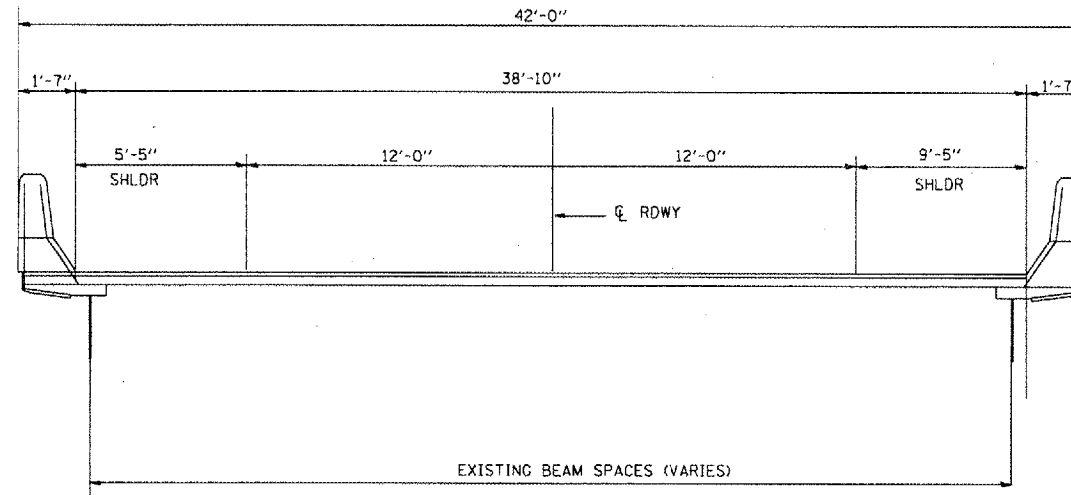
ANTI-ICING OVERLAY SHALL BE PLACED ON ENTIRE DECK SURFACE
(FACE TO FACE PARAPETS, END TO END OF DECK)

REVISIONS	
NAME	DATE

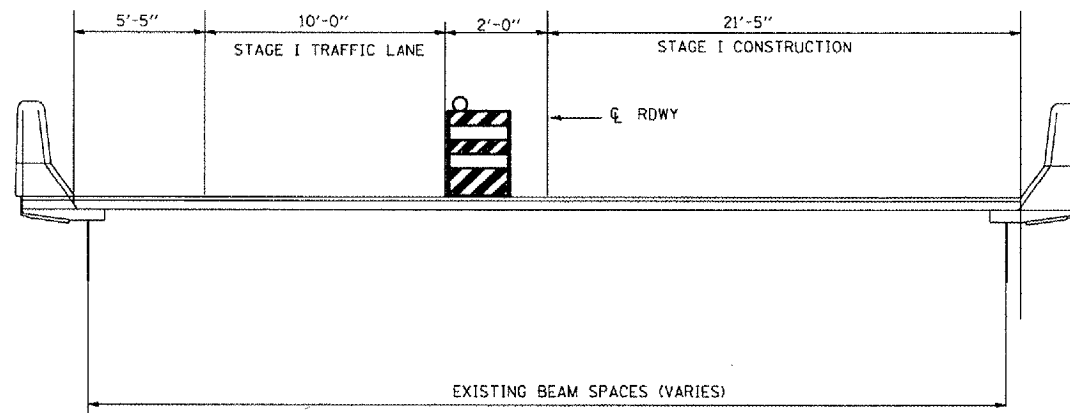
ILLINOIS DEPARTMENT OF TRANSPORTATION
STRUCTURE PLAN
LOCATION 2: SN# 016-0502
WB HIGGINS ROAD OVER
EJ & E RAILROAD
SCALE: VERT. _____
HORIZ. _____
DATE _____ DRAWN BY _____
CHECKED BY _____

PLOT DATE: 5/2/2007
PLOT NAME: d132706aa.dwg
PLOT SCALE: 1/16"
USER NAME: mschultz

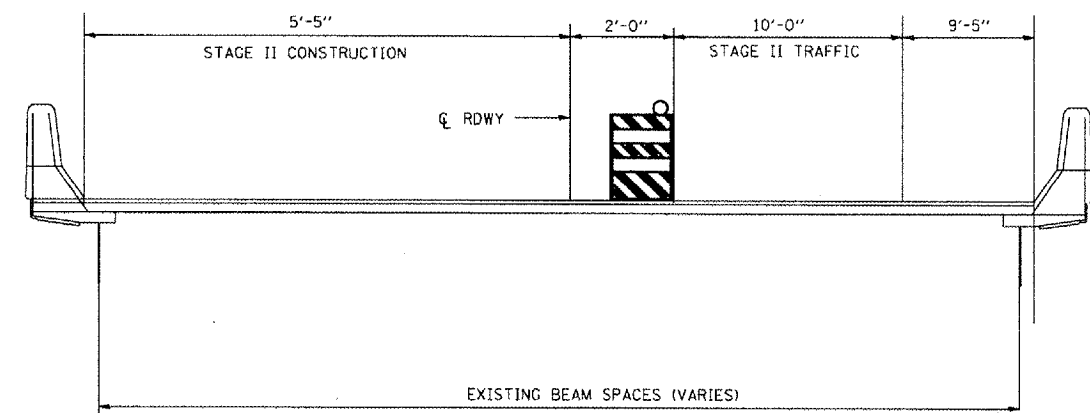
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	32-1VB-1-1	COOK	19	14
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



CROSS SECTION
LOOKING EAST



STAGE I
LOOKING EAST



STAGE II
LOOKING EAST

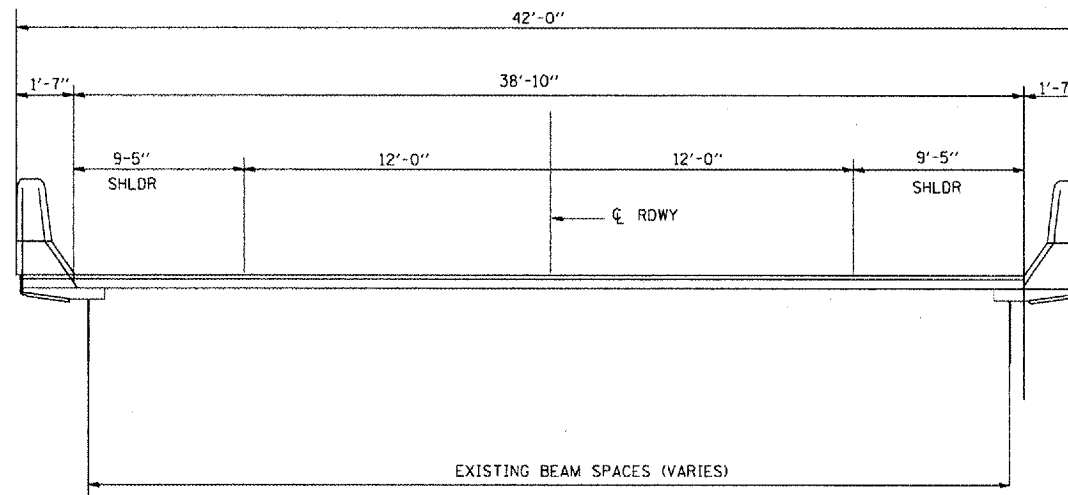
STAGING PLAN

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 PLOT SCALE : 1/8"=1'-0"
 USER NAME : mitchellr

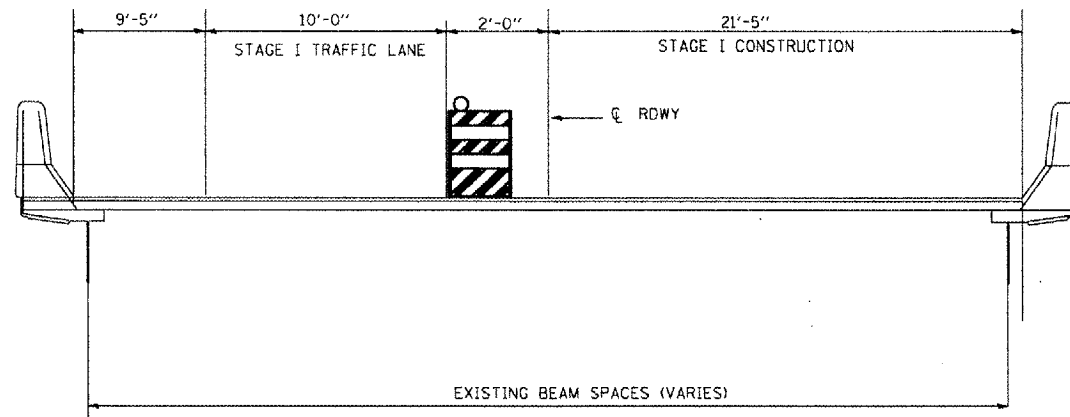
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC STAGING
 LOCATION 1: SN# 016-2469
 EB HIGGINS ROAD
 OVER I-90 TOLLWAY
 VERT. SCALE: DATE
 HORIZ. DRAWN BY
 CHECKED BY

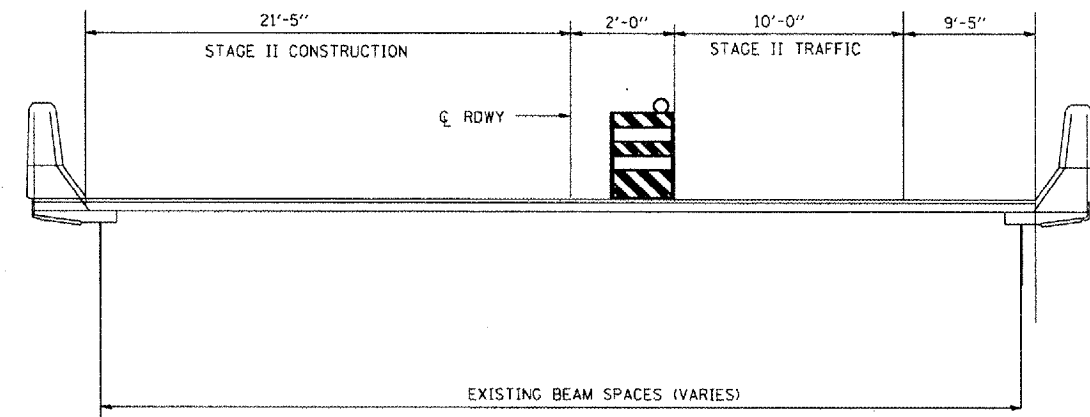
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	32-1VB-I-1	COOK	19	15
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



CROSS SECTION
LOOKING WEST



STAGE I
LOOKING WEST



STAGE II
LOOKING WEST

STAGING PLAN

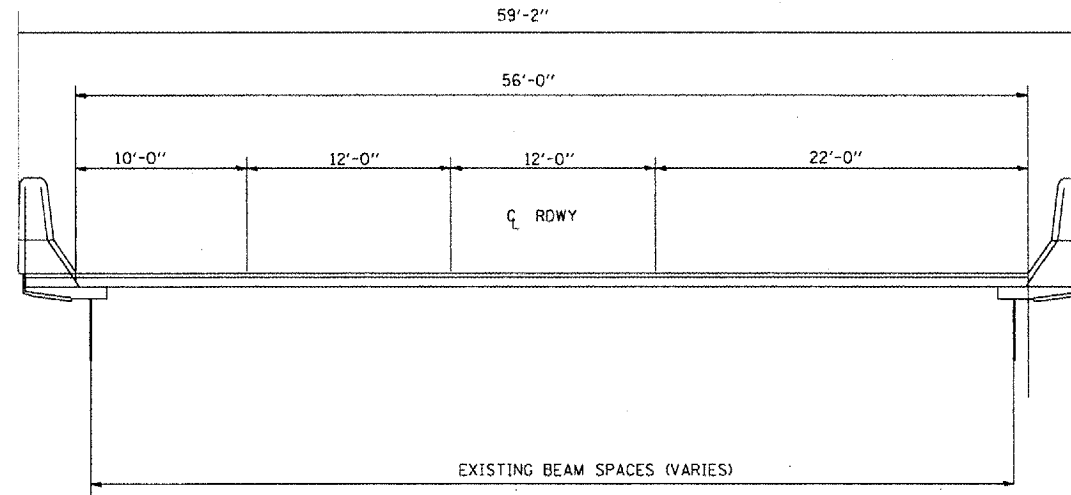
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REVISIONS	
NAME	DATE

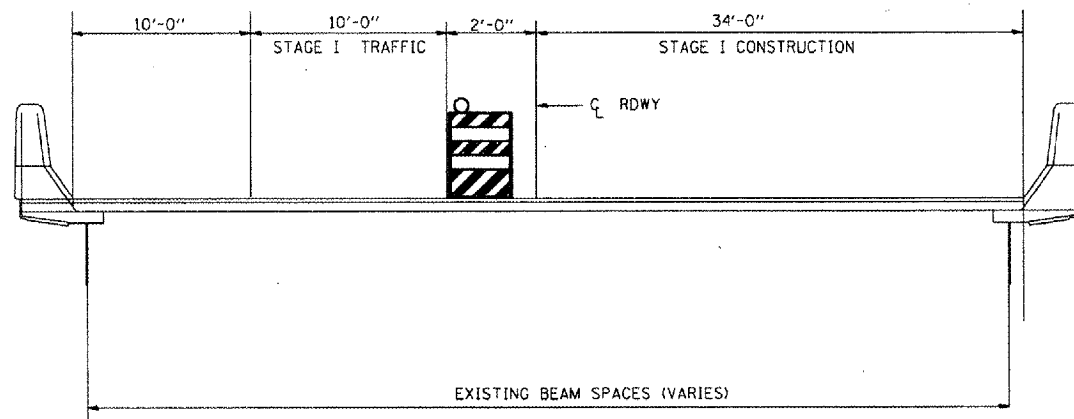
ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC STAGING
 LOCATION 1: SN# 016-503
 WB HIGGINS ROAD
 OVER I-90 TOLLWAY

SCALE: VERT. DRAWN BY
 HORIZ. CHECKED BY
 DATE

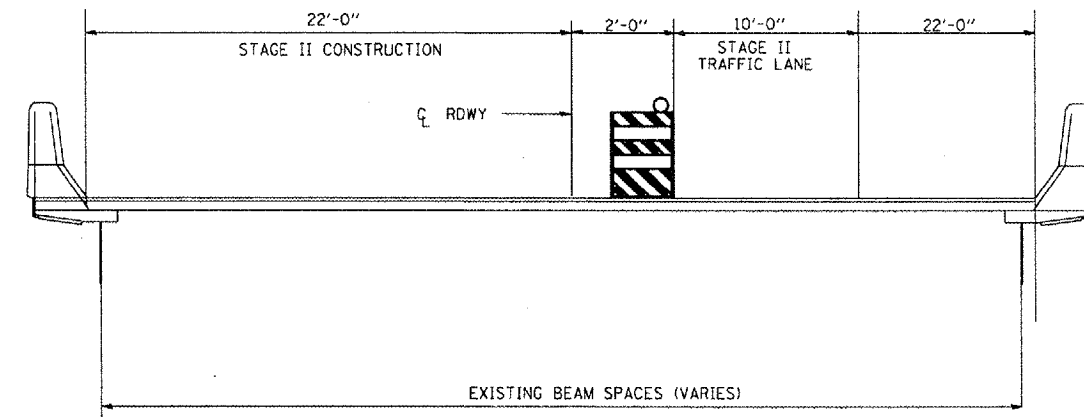
F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	32-1VB-I-1	COOK	19	16
STA.		TO STA.		
FED. RDW DIST. NO.	ILLINOIS	FED. AID PROJECT		



CROSS SECTION
LOOKING EAST



STAGE I
LOOKING EAST



STAGE II
LOOKING EAST

STAGING PLAN

REVISIONS	
NAME	DATE

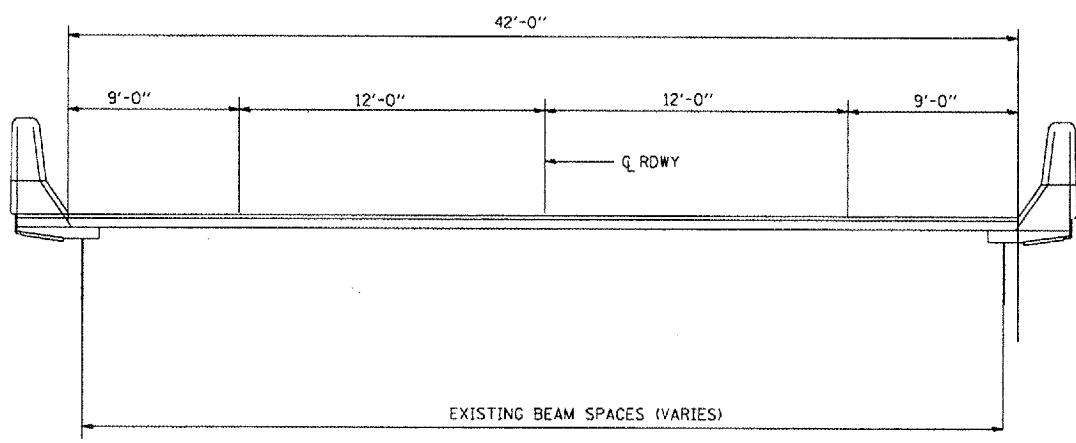
ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC STAGING
LOCATION 2: SN# 016-2596
EB HIGGINS ROAD OVER
EJ & E RAILROAD

SCALE: VERT. DATE
HORIZ. DATE
DRAWN BY
CHECKED BY

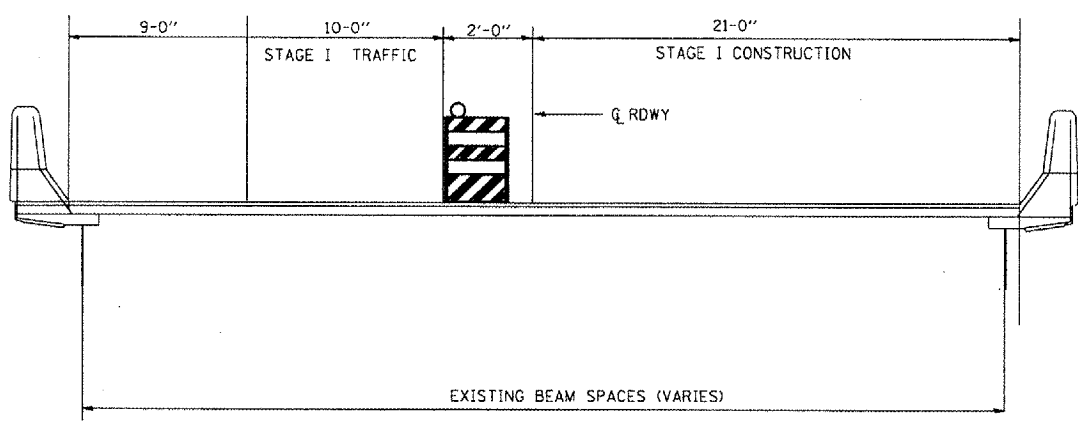
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USER NAME: mitchellr

CONTRACT NO.				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

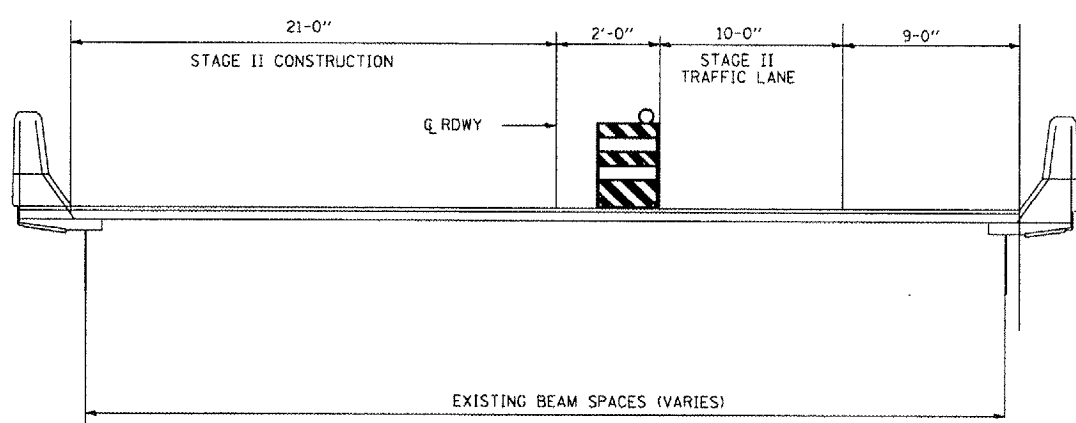
4 OF 4



CROSS SECTION
LOOKING EAST



STAGE I
LOOKING EAST



STAGE II
LOOKING EAST

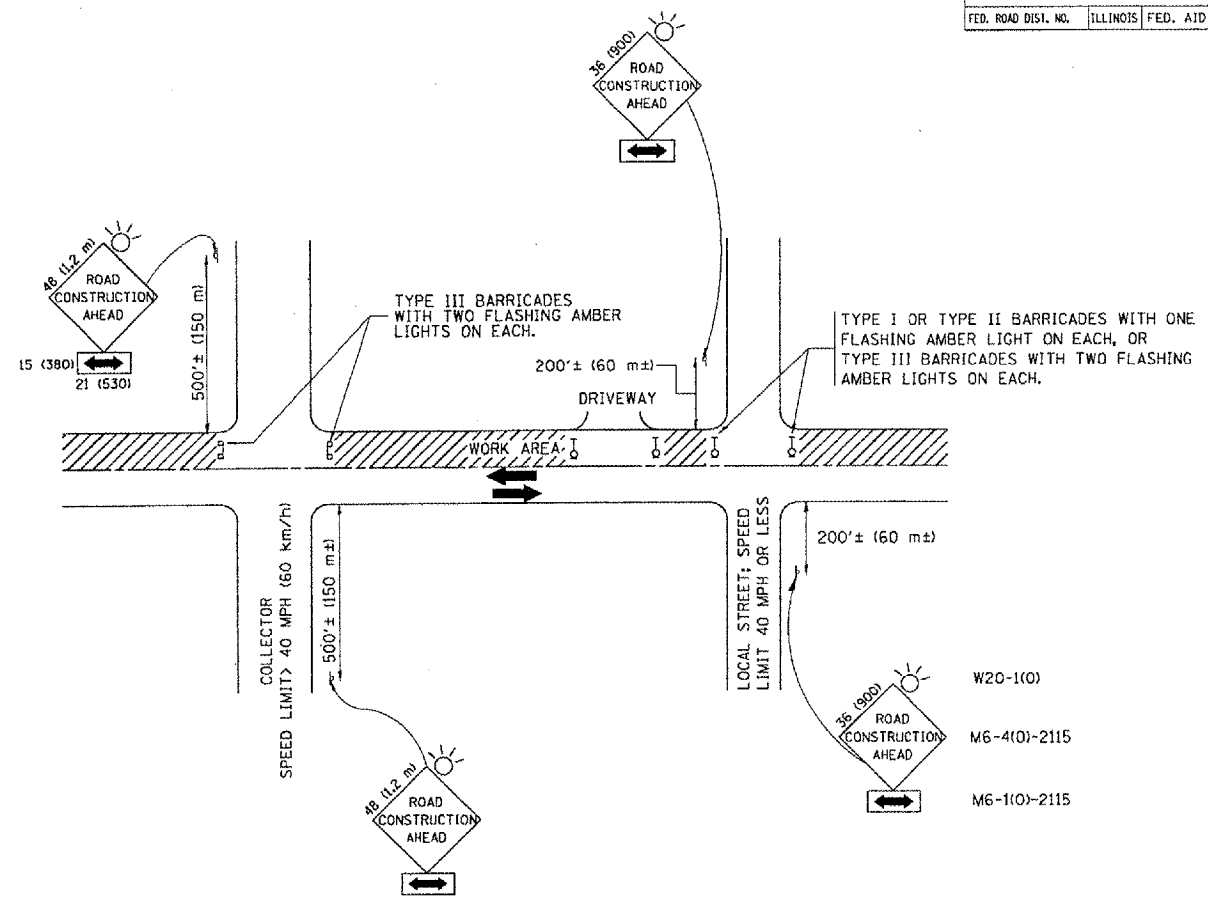
STAGING PLAN

PLOT DATE: 2/26/2007
 FILE NAME: C:\projects\1137766\1137766.dwg
 USER NAME: atwood17

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC STAGING
 LOCATION 2 SN: 016-0502
 WB HIGGINS ROAD OVER
 EJ & E RAILROAD
 SCALE: VERT. _____
 HORIZ. _____
 DATE _____ DRAWN BY _____
 CHECKED BY _____

F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341		COOK	19	18
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS**
- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY**
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701506 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.**
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.**

All dimensions are in millimeters (inches) unless otherwise shown.

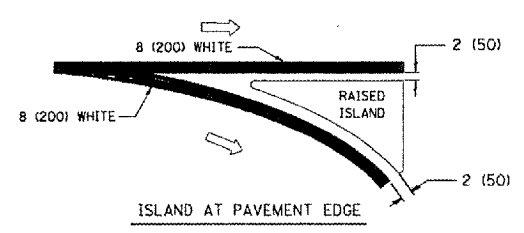
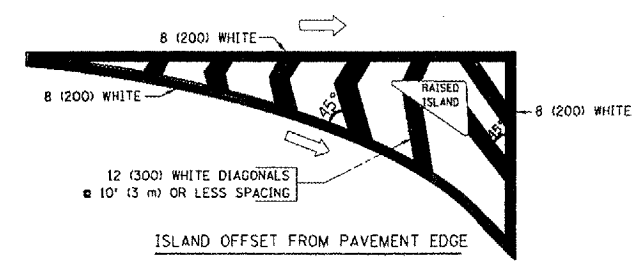
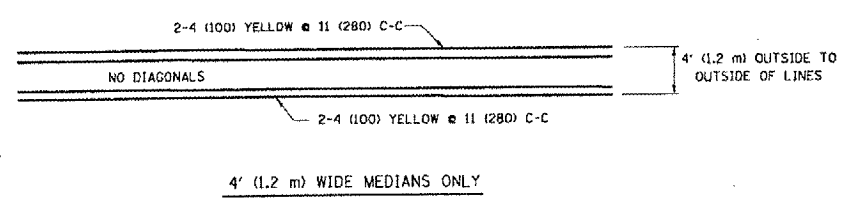
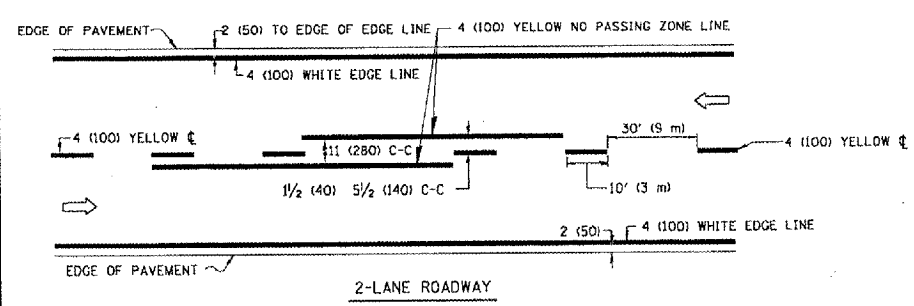
REVISIONS	
NAME	DATE
LHA	6/89
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC CONTROL AND PROTECTION
 FOR
 SIDE ROADS, INTERSECTIONS, AND
 DRIVEWAYS

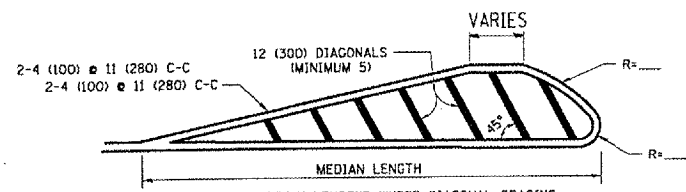
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 DRAWN BY
 CHECKED BY
 TC-10

PLOT DATE = 2/6/2007
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 PLOT SCALE = 80.0000 / 1" = 100'-0"
 USER NAME = lbauer-dl

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		Cook	19	19
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS		FED. AID PROJECT	



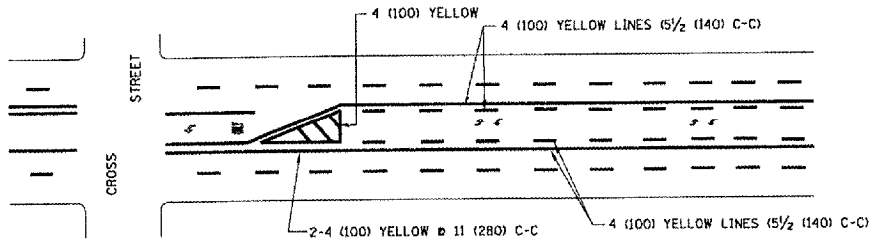
TYPICAL ISLAND MARKING



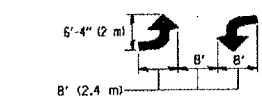
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
 75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

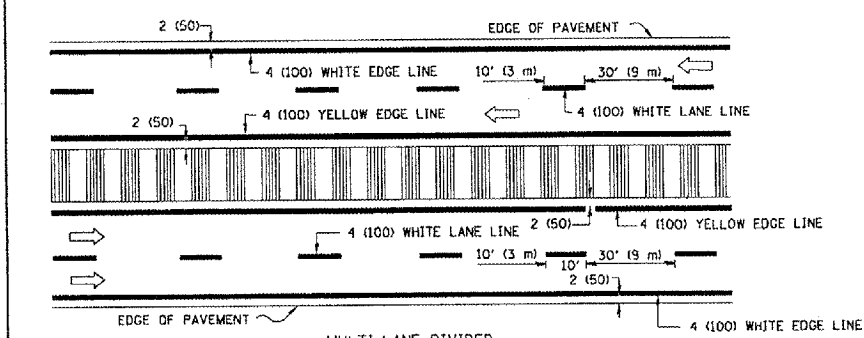
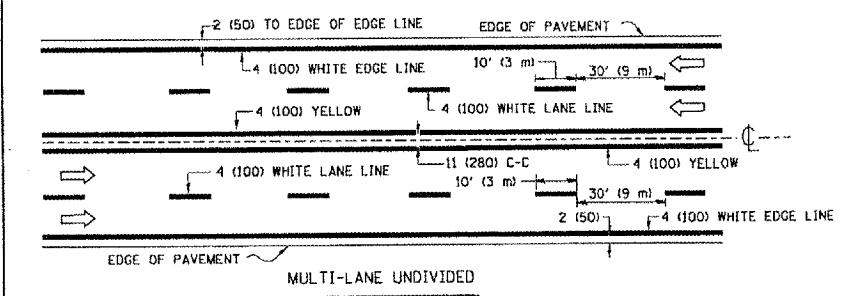
MEDIANS OVER 4' (1.2 m) WIDE



A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.

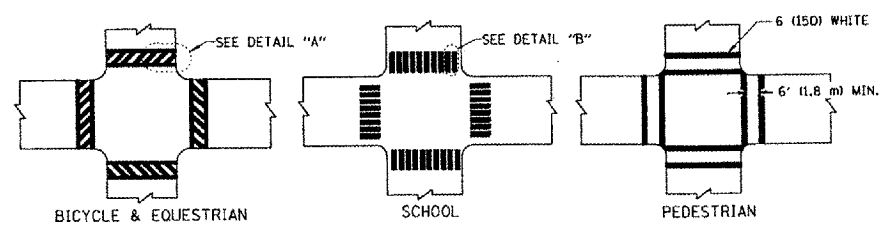


TYPICAL PAINTED MEDIAN MARKING

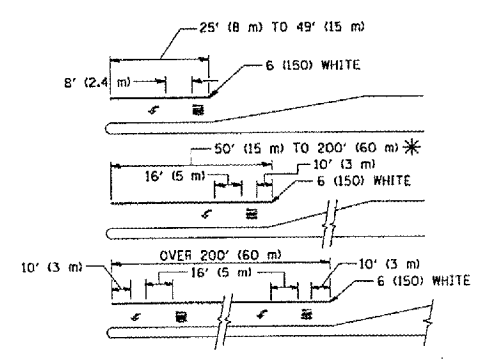


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED.
 AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8" (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8" (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45°	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m), LETTERS: 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
ALEX HOUSEH	10-09-96
ALEX HOUSEH	10-17-96
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DISTRICT ONE
 TYPICAL PAVEMENT MARKINGS

SCALE: NONE
 DRAWN BY CADDO
 CHECKED BY
 TC-13

PLOT DATE: 3/6/2007
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 PLOT SCALE: 1/8" = 1'-0"
 USER NAME: mvd