

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	MCLEAN	41	1

* (57-21B&57-22B)&BDR

D-95-011-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

F.A.I. ROUTE 74(I-74)
SECTION (57-21B&57-22B)&BDR
MCLEAN COUNTY

C-95-011-07

(BRIDGE DECK REPAIRS) LITTLE KICKAPOO CREEK
1.1 MI & 7.6 MI EAST OF US 51



FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4

PROJECT ENGINEER: KEVIN TRAPP

SQUAD LEADER: JEFF SHERER

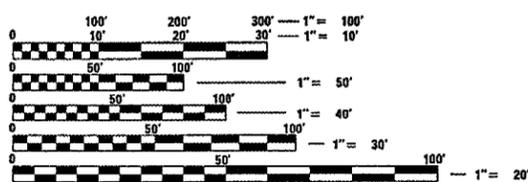
DESIGNER: RANDY AUSTIN

CURRENT TRAFFIC DATA		
	LEG "A"	LEG "B"
CURRENT ADT	16,500	18,400
20 YR ADT	25,900	27,000
PU & PC %	58.1	62.1
SU %	5.5	5.1
MU %	36.4	32.8

DESIGN DESIGNATION
NA

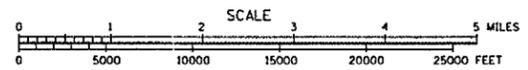
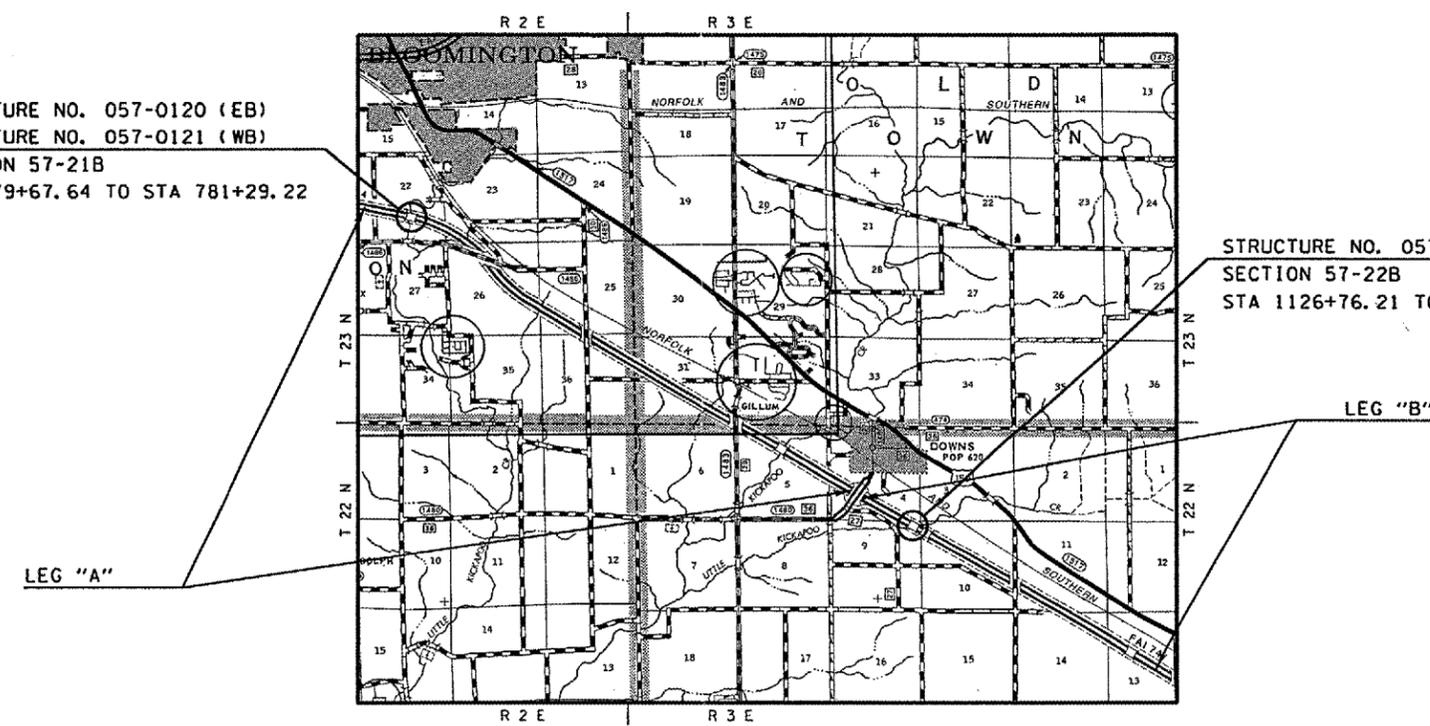
STRUCTURE NO. 057-0120 (EB)
STRUCTURE NO. 057-0121 (WB)
SECTION 57-21B
STA 779+67.64 TO STA 781+29.22

STRUCTURE NO. 057-0129 (WB)
SECTION 57-22B
STA 1126+76.21 TO 1127+85.71



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



TOTAL LENGTH OF SECTION & PROJECT = 432.66 FEET = 0.082 MILES
NET LENGTH OF SECTION & PROJECT = 432.66 FEET = 0.082 MILES

CONTRACT NO. 70641

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 8/17 2007

Joseph E. Cooney
DEPUTY DIRECTOR OF HIGHWAYS, REGION THREE ENGINEER

October 12, 2007
Eric E. Haran
ENGINEER OF DESIGN AND ENVIRONMENT

October 12, 2007
Milton R. Sees, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	MCLEAN	41	3

* (57-21B&57-22B)&BDR

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE 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 A CHANGE IN SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

G. N. -100
 ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G. N. -406
 THE QUANTITIES INCLUDED IN THE PLANS FOR HOT-MIX ASPHALT RESURFACING ARE INTENDED TO GIVE THE COVERAGE SHOWN ON THE TYPICAL CROSS SECTIONS. IT IS NOT INTENDED TO INCREASE THE THICKNESS OF THE HOT-MIX ASPHALT MIXTURE IN ORDER TO USE ALL OF THE QUANTITIES INCLUDED IN THE CONTRACT.

G. N. -406H

MIXTURE REQUIREMENTS

The following mixture requirements are applicable for this project:

Location(s):	SN 057-0120, SN 057-0121, SN 057-0129 on I-74 in McLean County
Mixture Use(s):	Surface
AC/PG:	SBS PG 70-22
RAP %: (Max)**	10%
Design Air Voids:	4.0% @ Ndes = 90
Mixture Composition: (Gradation Mixture)	IL 9.5
Friction Aggregate:	Mix D

G. N. -703A
 SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE PAVEMENT AFTER ANY OF THE FOLLOWING: COLD MILLING AND/OR PLACING BITUMINOUS MATERIALS (PRIME COAT), LEVELING BINDER (MACHINE METHOD), BINDER AND SURFACE COURSES. SHORT TERM PAVEMENT MARKING PLACED ON THE SURFACE, SHALL COINCIDE WITH THE FINAL PAVEMENT STRIPING. SHORT TEM PAVEMENT MARKING PLACED PRIOR TO THE SURFACE SHALL COINCIDE WITH THE EXISTING PAVEMENT MARKINGS. USE 4 FEET PER 40 FEET (OR 10% PER STATION).

COMMITMENTS

THERE ARE NO COMMITMENTS FOR THIS PROJECT.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	MCLEAN	41	4

* I57-21B&57-22B&BDR

SUMMARY OF QUANTITIES

LOCATION OF WORK:

FAI 74
SECTION (57-21B & 57-22B) & BDR
MCLEAN COUNTY

CODE NO	ITEM	CONSTRUCTION TYPE CODE:	UNIT	TOTAL QUANTITY	S.N. 057-0120	S.N. 057-0121	S.N. 057-0129
					100% STATE SFTY-2A	100% STATE SFTY-2A	100% STATE SFTY-2A
40600115	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)		GALLON	178.0	67.0	67.0	44.0
40603545	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90		TON	232.0	94.0	94.0	44.0
44000156	HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"		SQ YD	1,781.0	670.0	670.0	441.0
50102400	CONCRETE REMOVAL		CU YD	23.7	0.0	0.0	23.7
50300255	CONCRETE SUPERSTRUCTURE		CU YD	23.7	0.0	0.0	23.7
50300530	FLOOR DRAIN EXTENSION		EACH	24.0	0.0	0.0	24.0
50800205	REINFORCEMENT BARS, EPOXY COATED		POUND	3,390.0	0.0	0.0	3,390.0
50800515	BAR SPLICERS		EACH	24.0	0.0	0.0	24.0
67100100	MOBILIZATION		L SUM	1.0	0.33	0.33	0.33
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402		EACH	3.0	1.0	1.0	1.0
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406		L SUM	1.0	0.33	0.33	0.33
70400100	TEMPORARY CONCRETE BARRIER		FOOT	1,325.0	475.0	450.0	400.0
70400200	RELOCATE TEMPORARY CONCRETE BARRIER		FOOT	1,337.5	462.5	462.5	412.5
* 78001110	PAINT PAVEMENT MARKING - LINE 4"		FOOT	870.0	325.0	325.0	220.0
78003130	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 6"		FOOT	138.0	52.0	52.0	34.0
X0320887	POLYMER CONCRETE		CU FT	6.4	0.0	0.0	6.4
X0321468	PLUG EXISTING DECK DRAINS		EACH	34.0	12.0	12.0	10.0
X0322932	SILICONE JOINT SEALER, 1.5"		FOOT	86.0	0.0	0.0	86.0
X0323077	SILICONE JOINT SEALER, 2.75"		FOOT	160.0	80.0	80.0	0.0
X7015005	CHANGEABLE MESSAGE SIGN		CAL DA	28.0	28.0	0.0	0.0
* X7200201	WIDTH RESTRICTION SIGNING		L SUM	1.0	0.33	0.33	0.33
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)		SQ YD	37.0	10.0	16.0	11.0
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)		SQ YD	183.0	32.0	91.0	60.0
Z0016200	DECK SLAB REPAIR (PARTIAL)		SQ YD	240.0	87.0	87.0	66.0
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3		EACH	3.0	1.0	1.0	1.0
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3		EACH	3.0	1.0	1.0	1.0

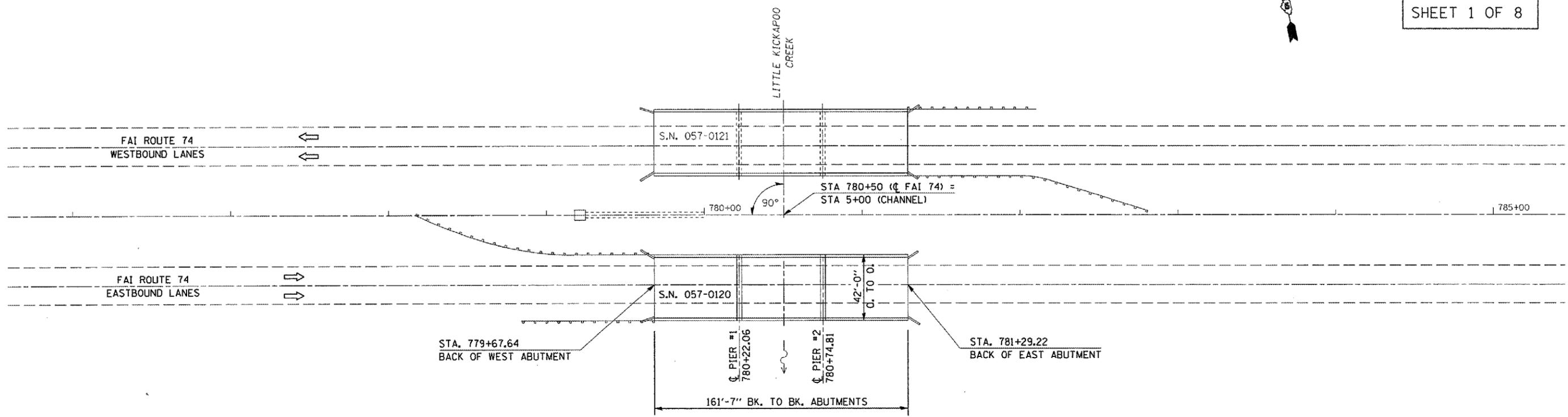
* SPECIALTY ITEM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	MCLEAN	41	5
STA. 776+00		TO STA. 785+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

* (57-21B&57-22B)&BDR

SHEET 1 OF 8

GENERAL PLAN S.N. 057-0120



PLAN VIEW
S. N. 057-0120 E. B.

BILL OF MATERIALS

ITEM	UNITS	QUANTITY
POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	GALLON	67.0
HOT-MIX ASPHALT REMOVAL 1 3/4"	SQ YD	670.0
PLUG EXISTING DECK DRAINS	EACH	12.0
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90.	TON	94.0
DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	10.0
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	32.0
DECK SLAB REPAIR (PARTIAL)	SQ YD	87.0
SILICONE JOINT SEALER, 2 3/4"	FOOT	80.0

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE 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 THE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION OR A CHANGE IN THE SCOPE OF WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE CONTRACT UNIT PRICE FOR THE WORK.

THE DECK SLAB REPAIR (PARTIAL & FULL DEPTH) QUANTITY IS ESTIMATED AND THE ACTUAL LOCATIONS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER AFTER THE HOT-MIX ASPHALT OVERLAY AND WATERPROOFING ARE REMOVED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK REPAIRS ON AS-BUILT PLANS ON SHEET 5 OF 8.

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 USER NAME = callierb

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN
F.A.I. ROUTE 74
SECTION (57-21B&57-22B)&BDR
MCLEAN COUNTY
S.N. 057-0120

SCALE: 1" = 30'
DATE: 03/22/07

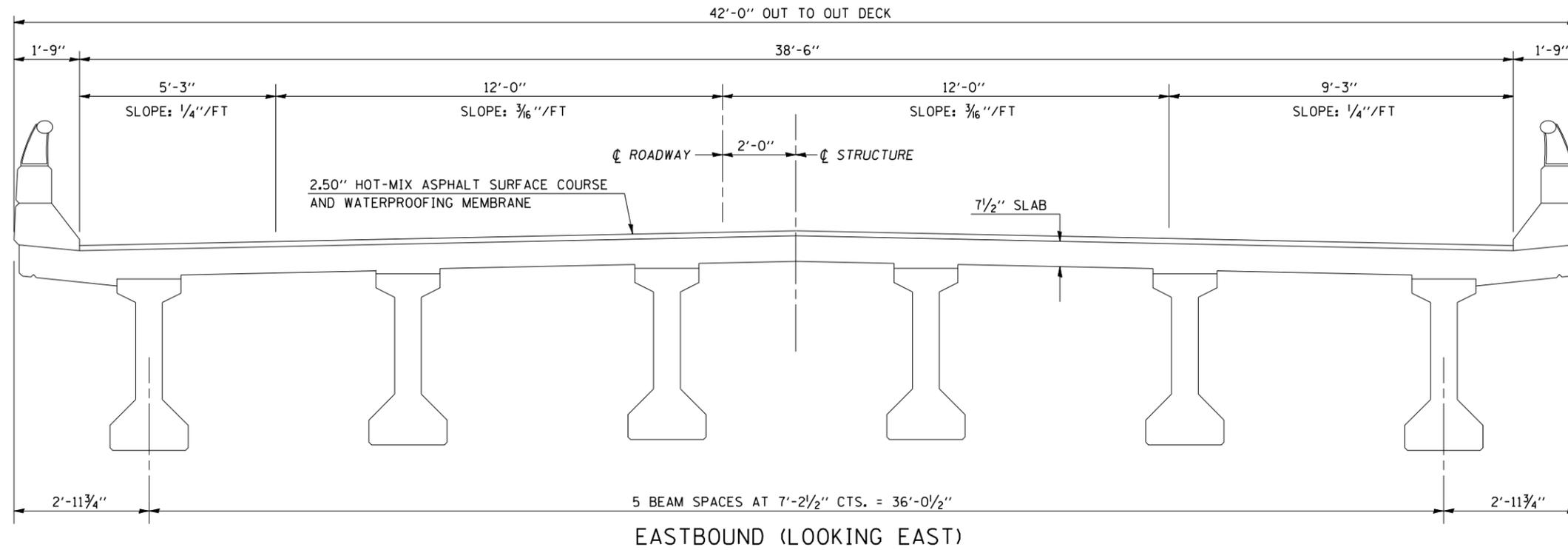
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CHECKED BY:

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	MCLEAN	41	6

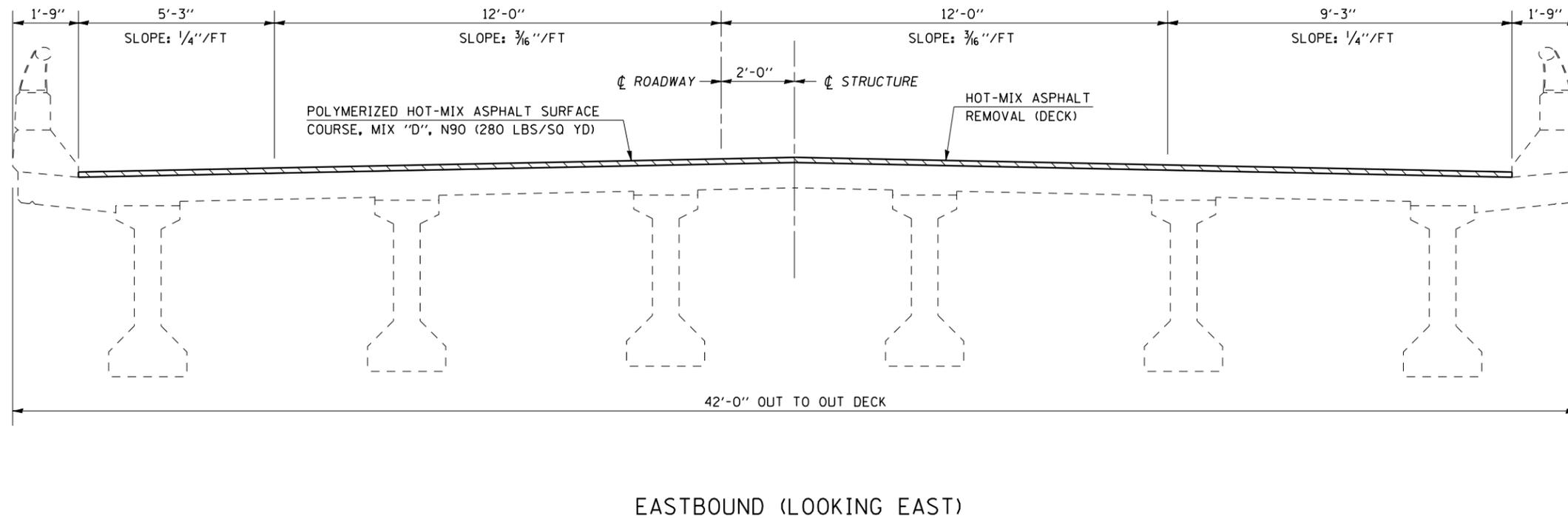
* (57-21B&57-22B)&BDR

SHEET 2 OF 8

EXISTING TYPICAL CROSS SECTION S.N. 057-0120



PROPOSED TYPICAL CROSS SECTION S.N. 057-0120



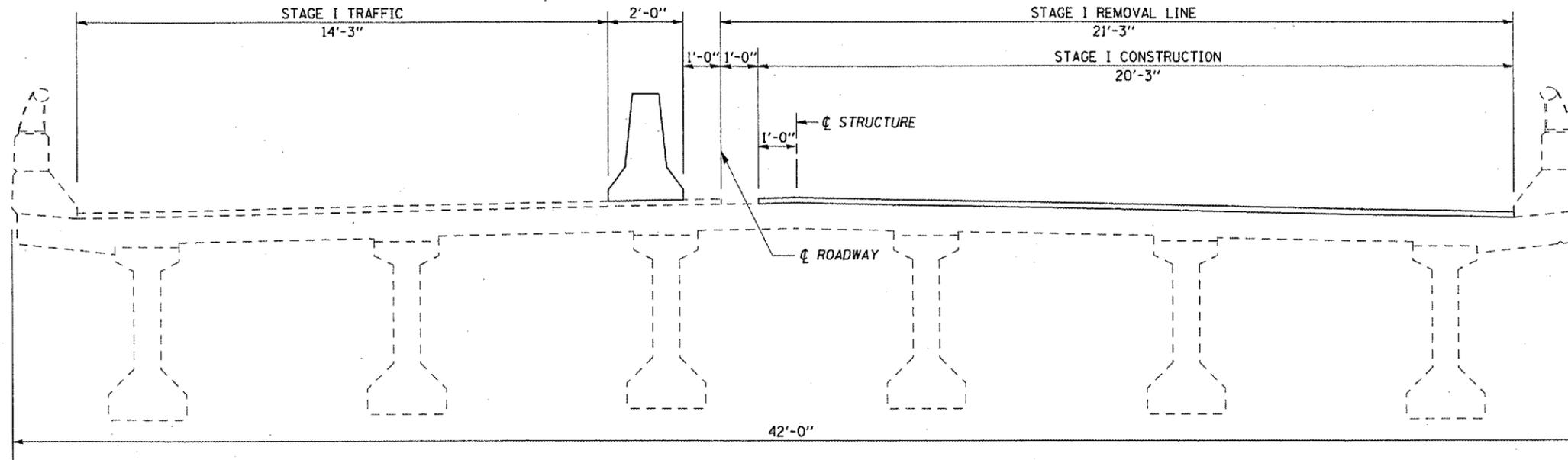
ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL CROSS SECTION
F.A.I. ROUTE 74
SECTION (57-21B&57-22B)&BDR
MCLEAN COUNTY
S.N. 057-0120
SCALE: NA DATE: 03/22/07 DRAWN BY: JRP CHECKED BY:

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74	*	MCLEAN	41	7

* (57-21B&57-22B)&BDR

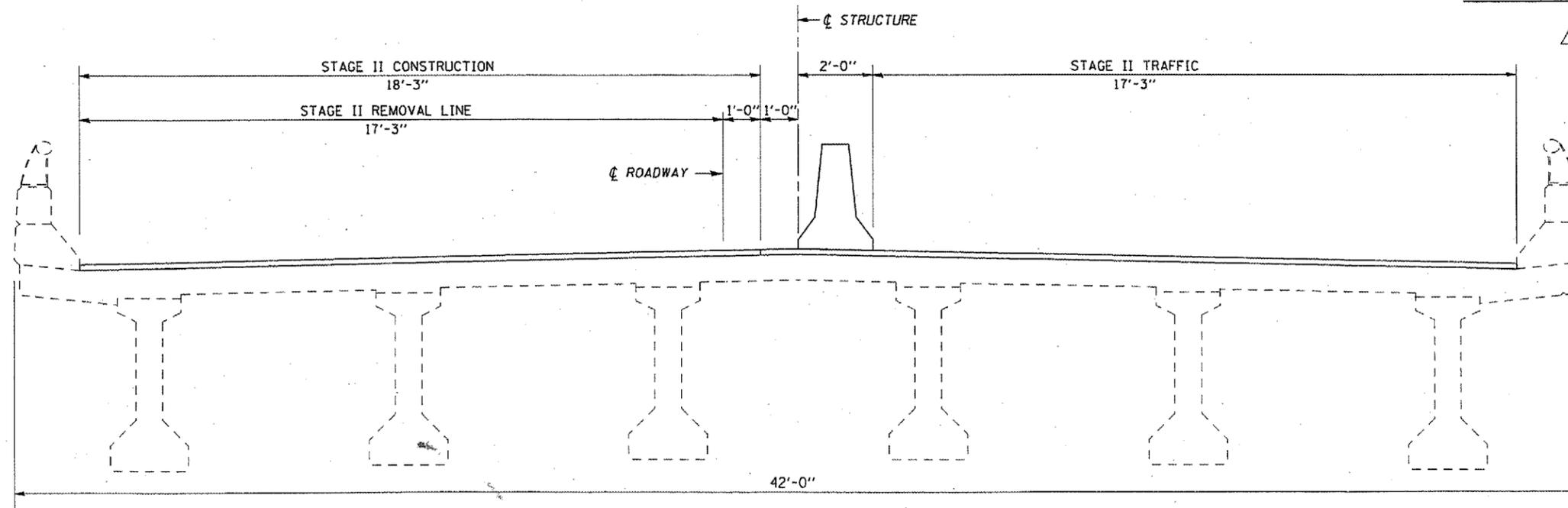
SHEET 3 OF 8

STAGE I CONSTRUCTION
S.N. 057-0120

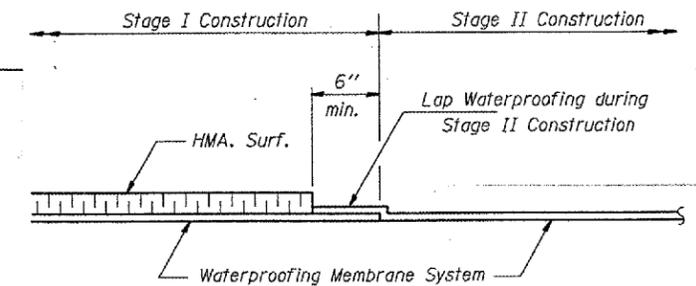


EASTBOUND (LOOKING EAST)

STAGE II CONSTRUCTION
S.N. 057-0120



EASTBOUND (LOOKING EAST)



WATERPROOFING TREATMENT
AT STAGE CONSTRUCTION

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 USER NAME = collarb

ILLINOIS DEPARTMENT OF TRANSPORTATION
 STAGE CONSTRUCTION
 F.A.I. ROUTE 74
 SECTION (57-21B&57-22B)&BDR
 MCLEAN COUNTY
 S.N. 057-0120

SCALE: NA DRAWN BY: JRP
 DATE: 03/22/07 CHECKED BY:

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	MCLEAN	41	8

* (57-21B&57-22B)&BDR

SHEET 4 OF 8

PLAN NOTES:

ALL STAGING DETAILS SET UP IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION 701402.

PRIOR TO BARRIER PLACEMENT TRAFFIC CONTROL SHALL BE SET UP IN ACCORDANCE WITH STANDARD 701406.

TRAFFIC CONTROL DETAILS NOT SHOWN ARE TO CONFORM WITH STANDARD 701400 AND 701402.

MESSAGE BOARD SHALL BE PLACED TWO WEEKS PRIOR TO CONSTRUCTION AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS.

RESIDENT ENGINEER AND TRAFFIC CONTROL SUPERVISOR SHALL PROVIDE APPROPRIATE MESSAGE FOR CMS.

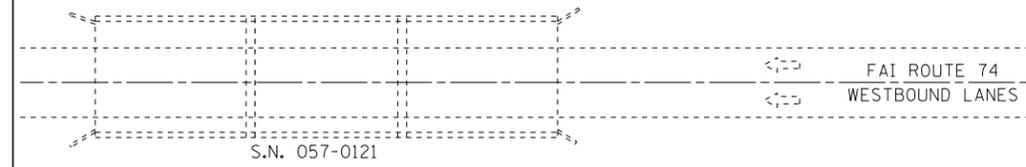
RAISED REFLECTIVE PAVEMENT MARKERS AFFECTED BY THE PROPOSED CONSTRUCTION SHALL BE REPLACED. THIS COST SHALL BE INCIDENTAL TO THE VARIOUS TRAFFIC CONTROL PAY ITEMS.

REFLECTORS AND VERTICAL PANELS FOR BARRIER WALL, BRIDGE RAIL AND GUARDRAIL SHALL BE INCLUDED IN THE COST FOR THE APPLICABLE TRAFFIC CONTROL PAY ITEMS.

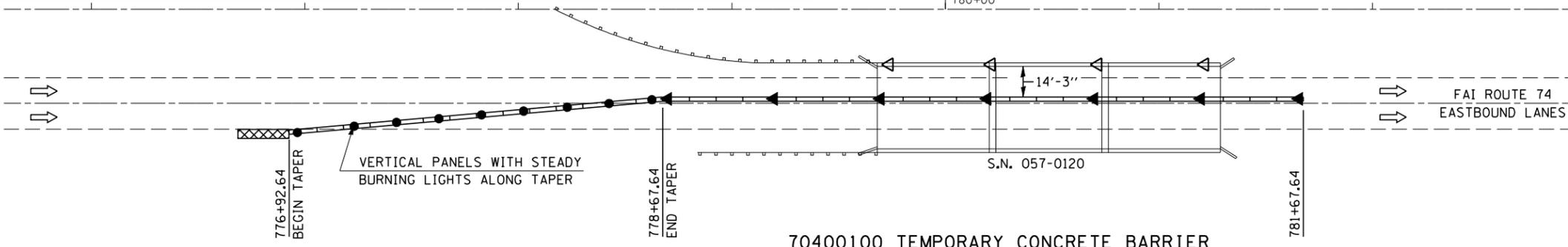
ATTACH VERTICAL PANELS TO THE LEFT GUARDRAIL AT 25 FOOT CENTERS DURING STAGE II. THIS COST WILL BE INCIDENTAL TO STANDARD 701402.

REFLECTORIZED TEMPORARY MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND ALONG-SIDE THE WORK AREA. THE EDGE LINE SHALL BE YELLOW FOR LEFT LANE CLOSURES. COST FOR THE PLACEMENT AND REMOVAL SHALL BE INCLUDED IN COST FOR APPLICABLE TRAFFIC CONTROL PAY ITEM.

**STAGE I CONSTRUCTION
S.N. 057-0120 (EASTBOUND)**

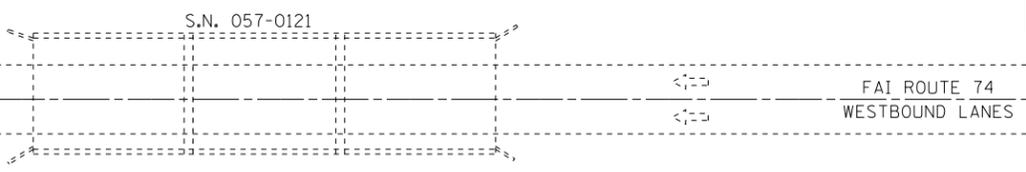


780+00

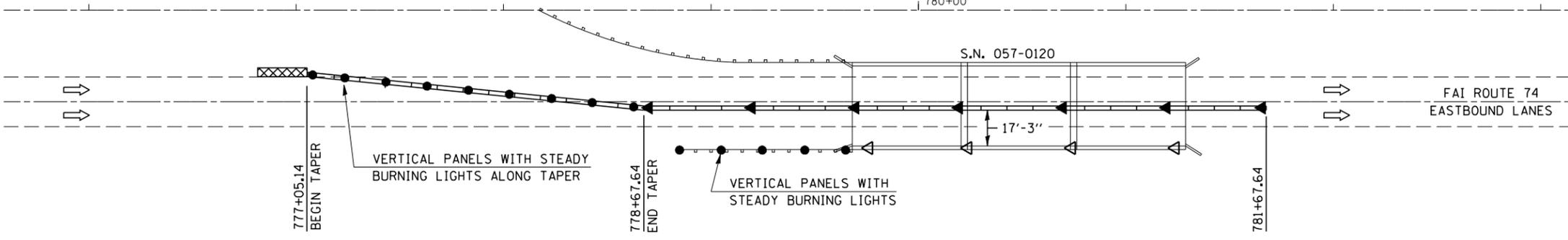


70400100 TEMPORARY CONCRETE BARRIER
STA 776+92.64 TO STA 781+67.64 = 475.0'

**STAGE II CONSTRUCTION
S.N. 057-0120 (EASTBOUND)**

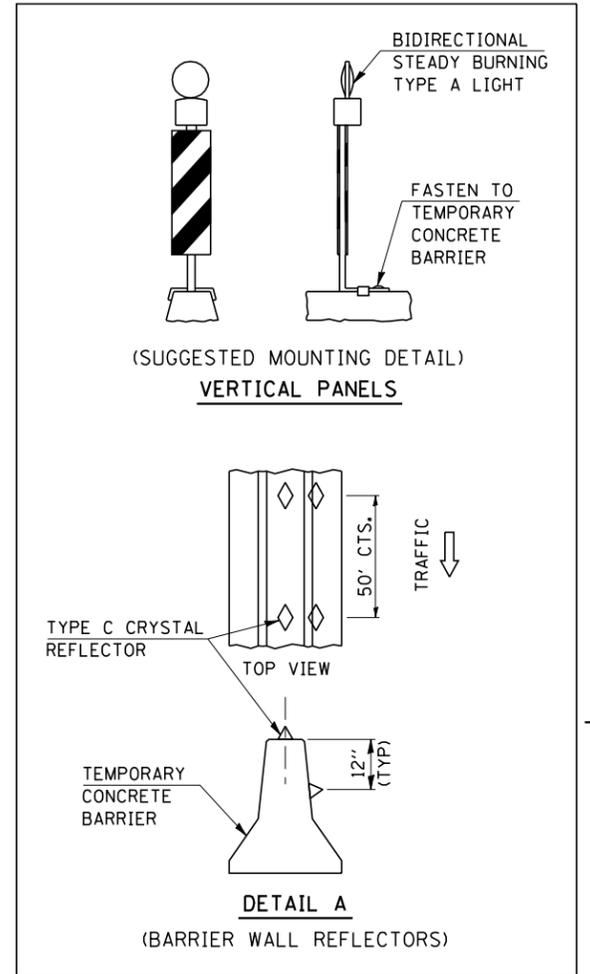


780+00



70400200 RELOCATE TEMPORARY CONCRETE BARRIER
STA 777+05.14 TO STA 781+67.64 = 462.5'

SYMBOLS	
	AMBER MONODIRECTIONAL REFLECTOR 50' CTS
	CRYSTAL MONODIRECTIONAL REFLECTOR 50' CTS
	TEMPORARY CONCRETE BARRIER
	VERTICAL PANELS WITH STEADY BURNING LIGHTS ALONG TAPER 20' CTS
	IMPACT ATTENUATOR



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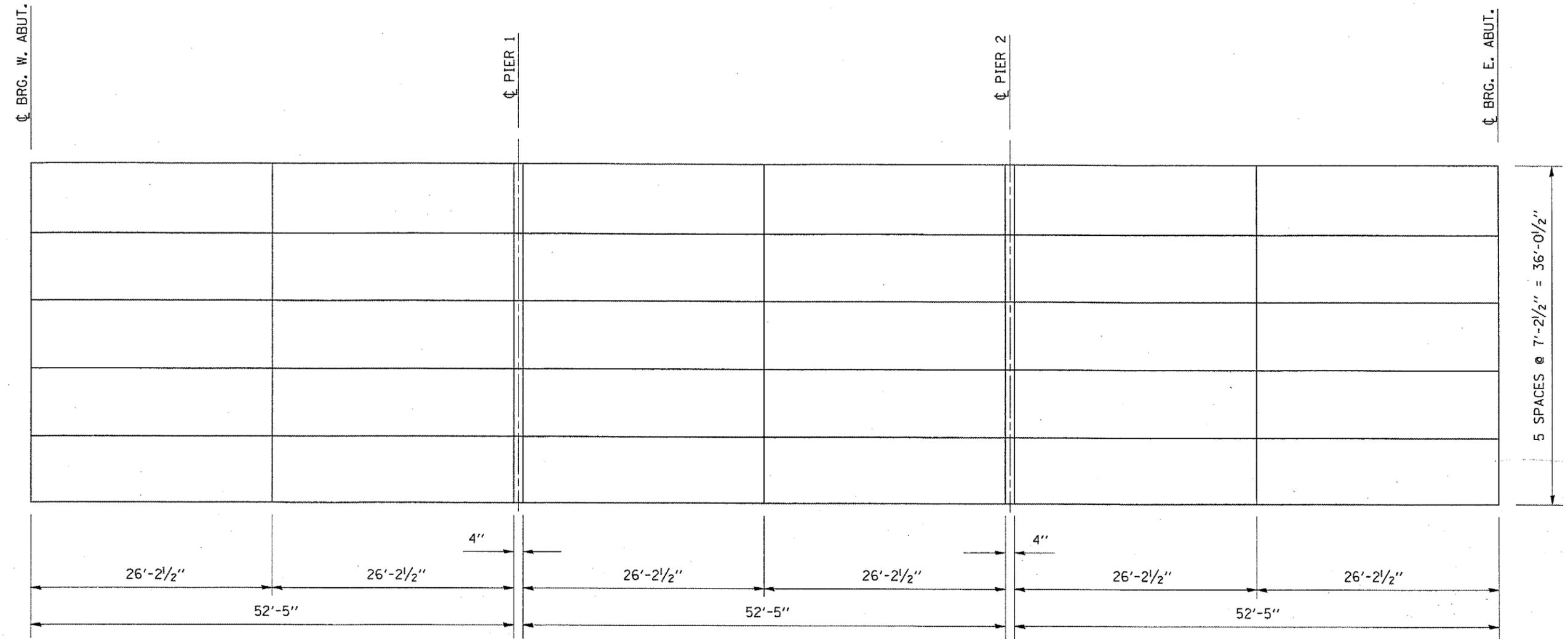
ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE CONSTRUCTION
F.A.I. ROUTE 74
SECTION (57-21B&57-22B)&BDR
MCLEAN COUNTY
S.N. 057-0120
SCALE: 1" = 30'
DATE: 03/24/07
DRAWN BY: JRP
CHECKED BY:

CONTRACT NO. 70641				
F.A.I. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
74 *	MCLEAN	41	9	

* (57-21B&57-22B)&BDR

SHEET 5 OF 8

LOCATION OF FULL DEPTH PATCHING S.N. 057-0120 EASTBOUND STATION 780 + 50



NOTES:

AREAS OF PARTIAL AND FULL DEPTH PATCHES SHALL BE DETERMINED BY THE ENGINEER AFTER THE **HMA** OVERLAY AND WATERPROOFING ARE REMOVED.

QUANTITIES OF DECK REPAIR HAVE BEEN ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK REPAIRS ON AS-BUILT PLANS.

PLAN VIEW OF AS-BUILT PATCHES

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 USER NAME : collinrb

ILLINOIS DEPARTMENT OF TRANSPORTATION	
LOCATION OF FULL DEPTH PATCHING	
F.A.I. ROUTE 74	
SECTION (57-21B&57-22B)&BDR	
MCLEAN COUNTY	
S.N. 057-0120	
SCALE: NA	DRAWN BY: JRP
DATE: 03/22/07	CHECKED BY:

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	MCLEAN	41	10

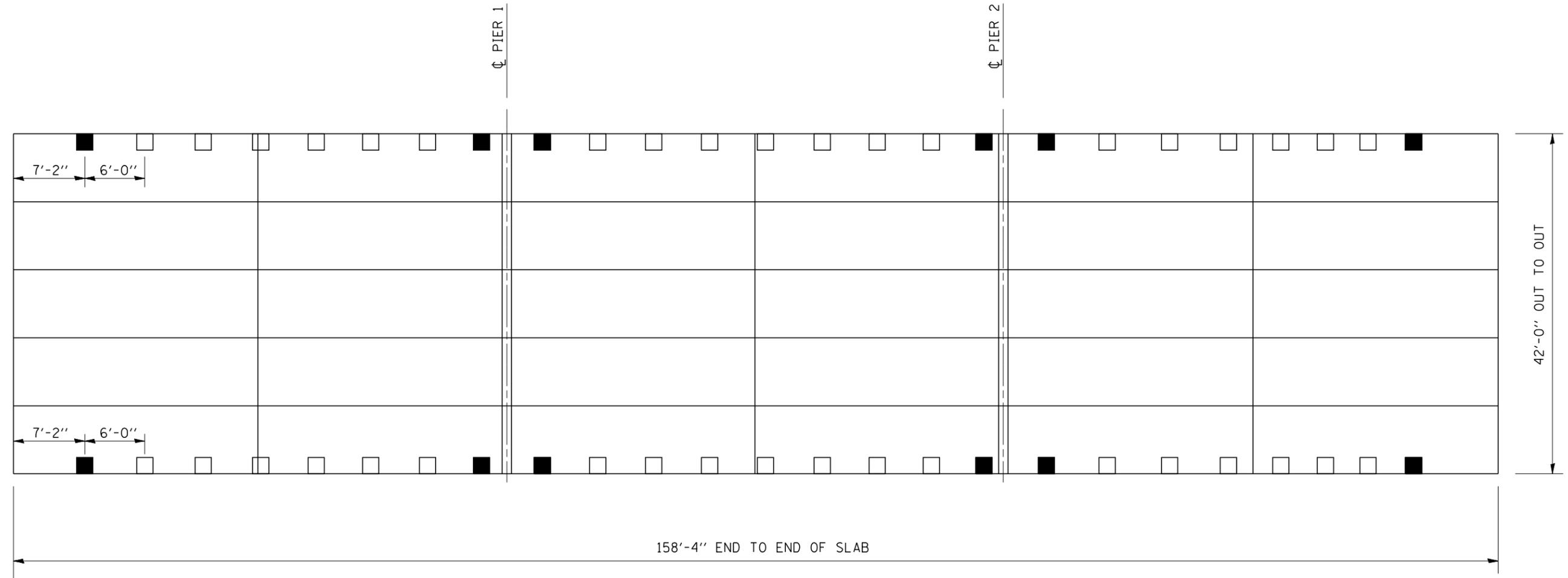
* (57-21B&57-22B)&BDR

LOCATION OF DRAINS

S.N. 057-0120 EASTBOUND



SHEET 6 OF 8



NOTE:
SEE SHEET 7 OF 8 FOR PLUG
EXISTING DECK DRAINS DETAIL.

LEGEND	
	EXISTING DRAINS TO BE PLUGGED
	EXISTING DRAINS TO REMAIN

ILLINOIS DEPARTMENT OF TRANSPORTATION
LOCATION OF DRAINS
F.A.I. ROUTE 74
SECTION (57-21B&57-22B)&BDR
MCLEAN COUNTY
S.N. 057-0120

SCALE: NA DRAWN BY: JRP
DATE: 03/22/07 CHECKED BY:

PLOT DATE : 8/16/2007
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	MCLEAN	41	11

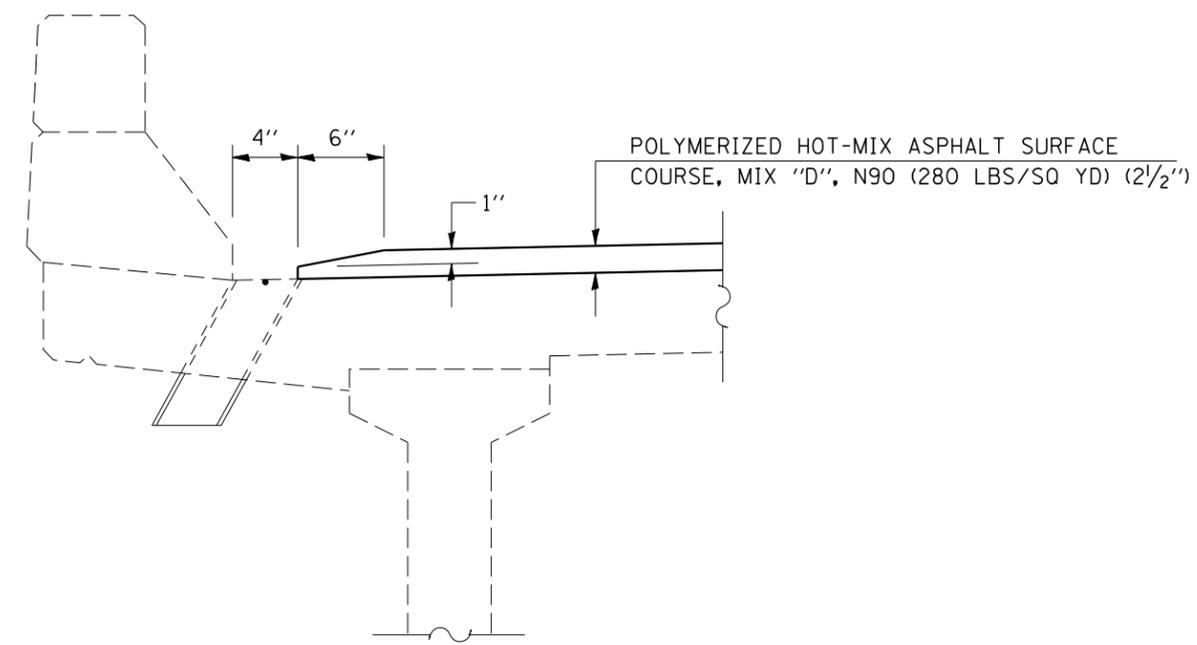
* (57-21B&57-22B)&BDR

SHEET 7 OF 8

DECK DRAIN REPAIR

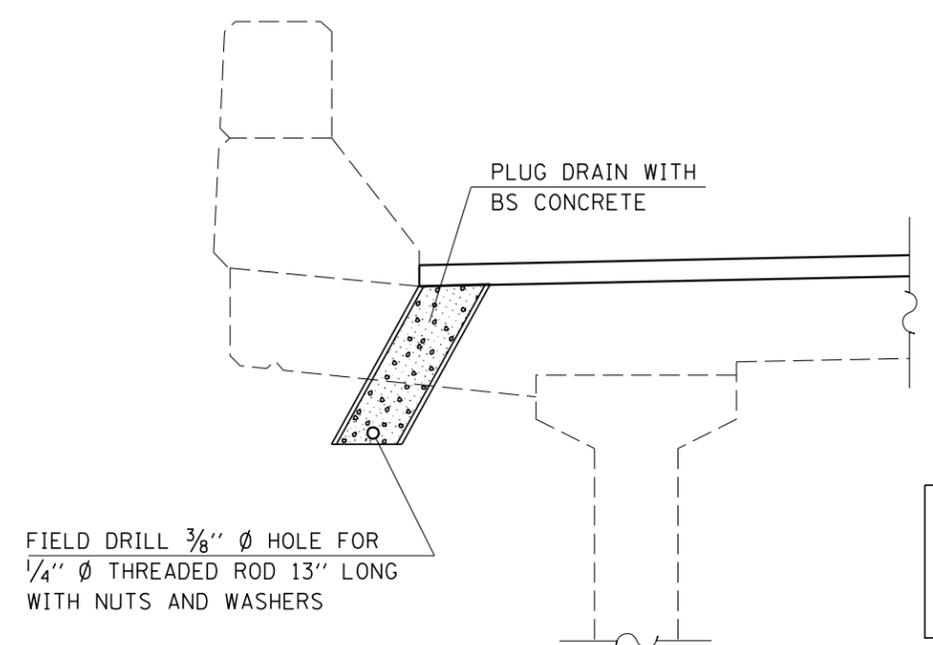
SN 057-0120

DETAIL OF DRAIN AT CURB



SECTION AT DRAIN

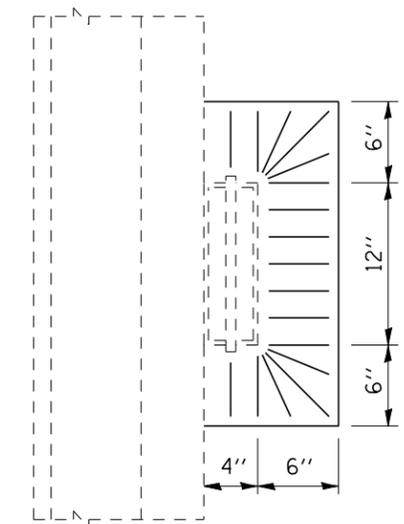
PLUG EXISTING DECK DRAINS



FIELD DRILL $\frac{3}{8}$ " \varnothing HOLE FOR $\frac{1}{4}$ " \varnothing THREADED ROD 13" LONG WITH NUTS AND WASHERS

NOTE:
SEE SHEET 6 OF 8 FOR DRAINS TO BE PLUGGED

SECTION AT DRAIN



PLAN VIEW

PLAN NOTE:
ON EXISTING DECK DRAINS WITH EXTENSIONS, REMOVE BOTTOM PORTION OF EXISTING DRAIN. (COST INCLUDED WITH PLUG EXISTING DECK DRAINS)

POLYMERIZED HMA AROUND DRAIN AT CURB SHALL BE COMPACTED TO SATISFACTION OF ENGINEER.

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PLOT SCALE = 1/8"=1'-0" / IN.
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ILLINOIS DEPARTMENT OF TRANSPORTATION
DECK DRAIN REPAIR
 F.A.I. ROUTE 74
 SECTION (57-21B&57-22B)&BDR
 MCLEAN COUNTY
 SN 057-0120

SCALE: NA
 DATE: 03/22/07

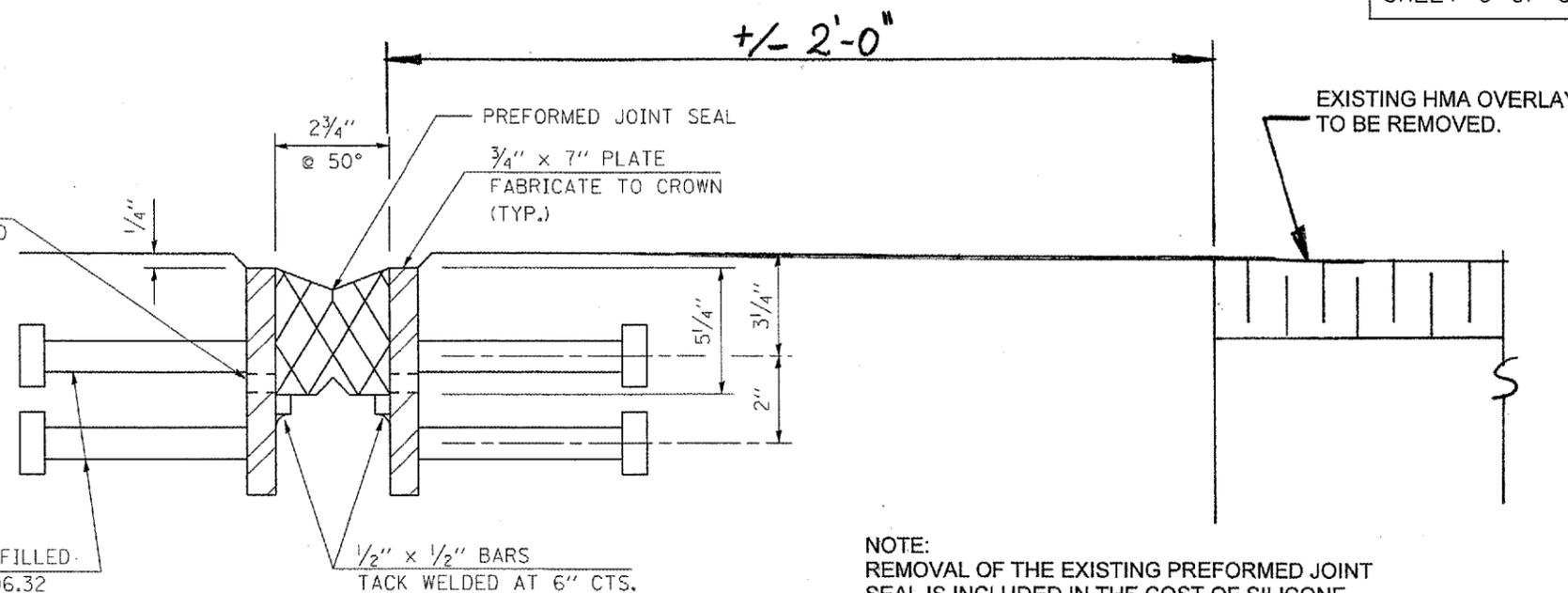
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EAST AND WEST ABUTMENT JOINT DETAILS

SN 057-0120

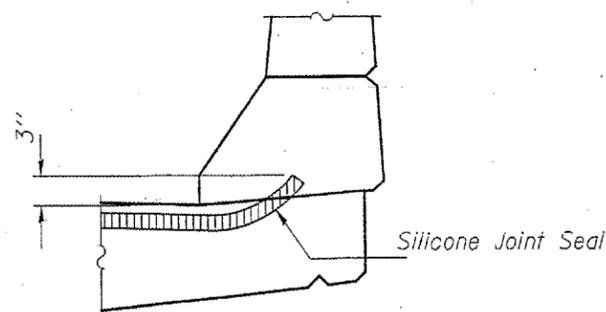
SHEET 8 OF 8

7/16" Ø HOLES AT 12" CTS. FOR 3/8" Ø BOLTS.
ALL BOLTS SHALL BE BURNED, SAWED OR CHIPPED OFF FLUSH WITH THE PLATES AFTER FORMS ARE REMOVED. (TYP.)



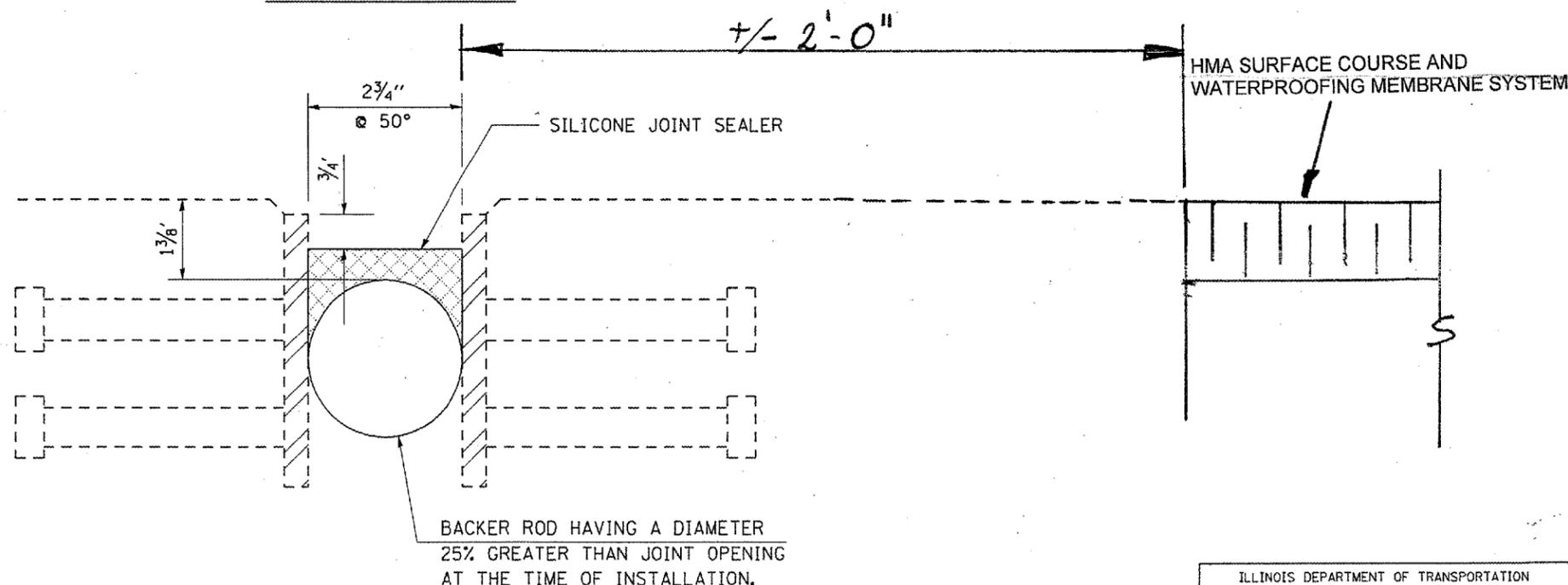
3/4" Ø x 8" GRANULAR OR SOLID FLUX FILLED HEADED STUDS CONFORMING TO ART. 706.32 OF THE STD. SPEC'S. AUTOMATICALLY END WELDED AT 12" ALT. CTS.

NOTE:
REMOVAL OF THE EXISTING PREFORMED JOINT SEAL IS INCLUDED IN THE COST OF SILICONE JOINT SEALER



TYPICAL END OF SEAL TREATMENT AT EXPANSION JOINT

EXISTING JOINT



PROPOSED JOINT

BILL OF MATERIALS

ITEM	UNITS	TOTAL
SILICONE JOINT SEALER, 2 3/4 "	FOOT	80

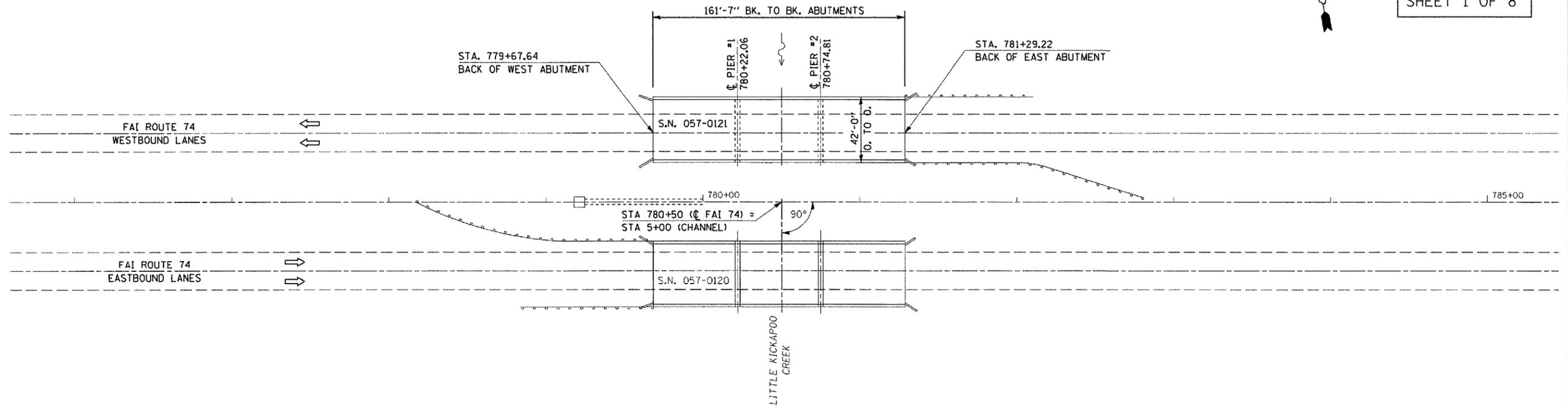
ILLINOIS DEPARTMENT OF TRANSPORTATION
EAST & WEST ABUTMENT
JOINT DETAILS
F.A.I. ROUTE 74
SECTION (57-21B&57-22B)&BDR
MCLEAN COUNTY
SN 057-0120

SCALE: NA DRAWN BY: JRP
DATE: 03/24/07 CHECKED BY:

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	MCLEAN	41	13
STA. 776+00		TO STA. 785+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* (57-21B&57-22B)&BDR				

SHEET 1 OF 8

GENERAL PLAN S.N. 057-0121



PLAN VIEW
S. N. 057-0121 W. B.

BILL OF MATERIALS

ITEM	UNITS	QUANTITY
POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	GALLON	67.0
HOT-MIX ASPHALT REMOVAL 1 3/4"	SQ YD	670.0
PLUG EXISTING DECK DRAINS	EACH	12.0
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90,	TON	94.0
DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	16.0
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	91.0
DECK SLAB REPAIR (PARTIAL)	SQ YD	87.0
SILICONE JOINT SEALER, 2 3/4"	FOOT	80.0

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE 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 THE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION OR A CHANGE IN THE SCOPE OF WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE CONTRACT UNIT PRICE FOR THE WORK.

THE DECK SLAB REPAIR (PARTIAL & FULL DEPTH) QUANTITY IS ESTIMATED AND THE ACTUAL LOCATIONS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER AFTER THE HOT-MIX ASPHALT OVERLAY AND WATERPROOFING ARE REMOVED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK REPAIRS ON AS-BUILT PLANS ON SHEET 5 OF 8.

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN
F.A.I. ROUTE 74
SECTION (57-21B&57-22B)&BDR
MCLEAN COUNTY
S.N. 057-0121

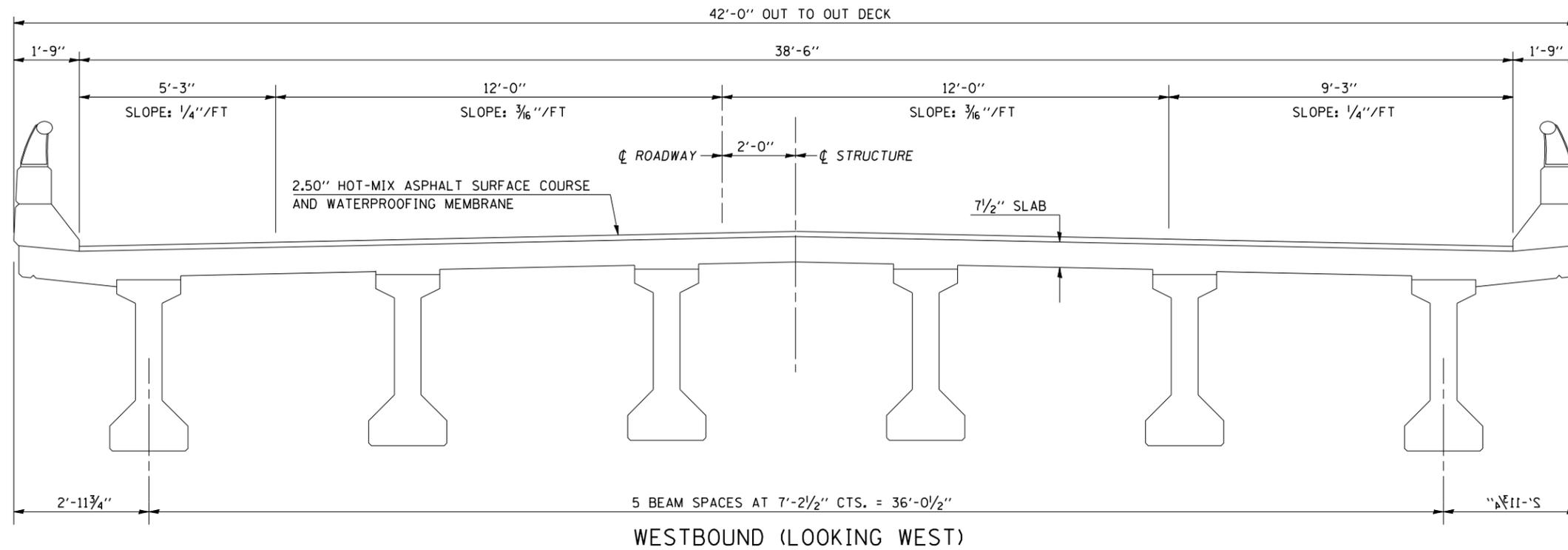
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DATE: 03/22/07
DRAWN BY: JRP
CHECKED BY:

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	MCLEAN	41	14

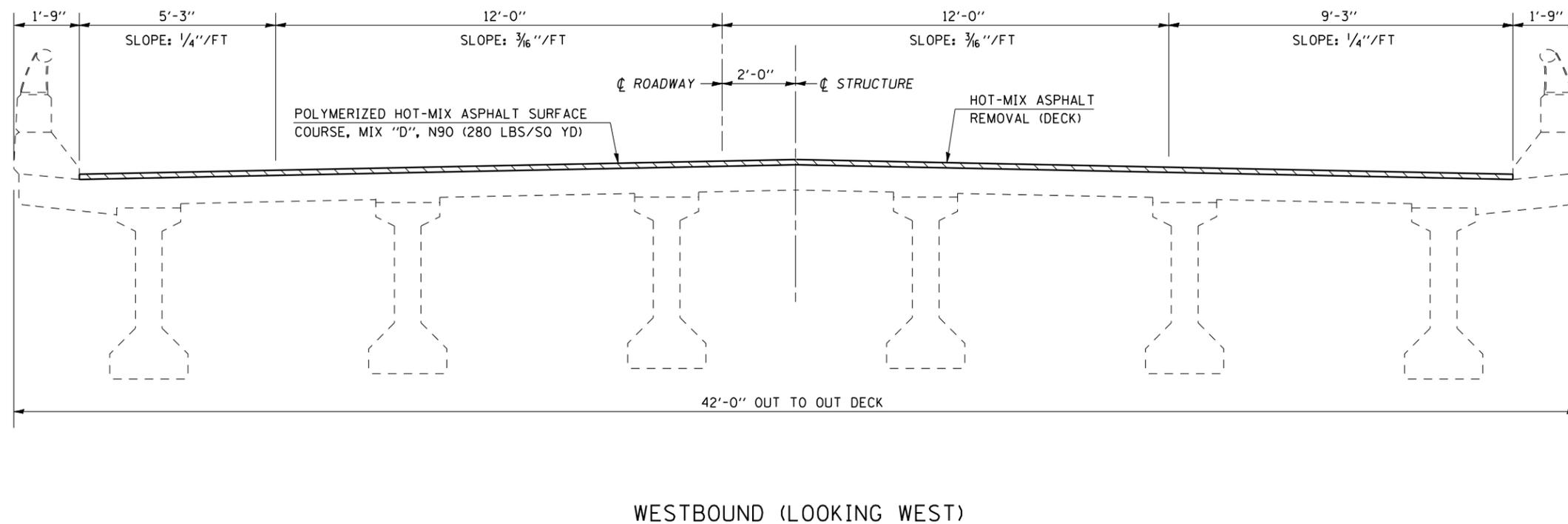
*(57-21B&57-22B)&BDR

SHEET 2 OF 8

EXISTING TYPICAL CROSS SECTION S.N. 057-0121



PROPOSED TYPICAL CROSS SECTION S.N. 057-0121



ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL CROSS SECTION
F.A.I. ROUTE 74
SECTION (57-21B&57-22B)&BDR
MCLEAN COUNTY
S.N. 057-0121

SCALE: NA DRAWN BY: JRP
DATE: 03/22/07 CHECKED BY:

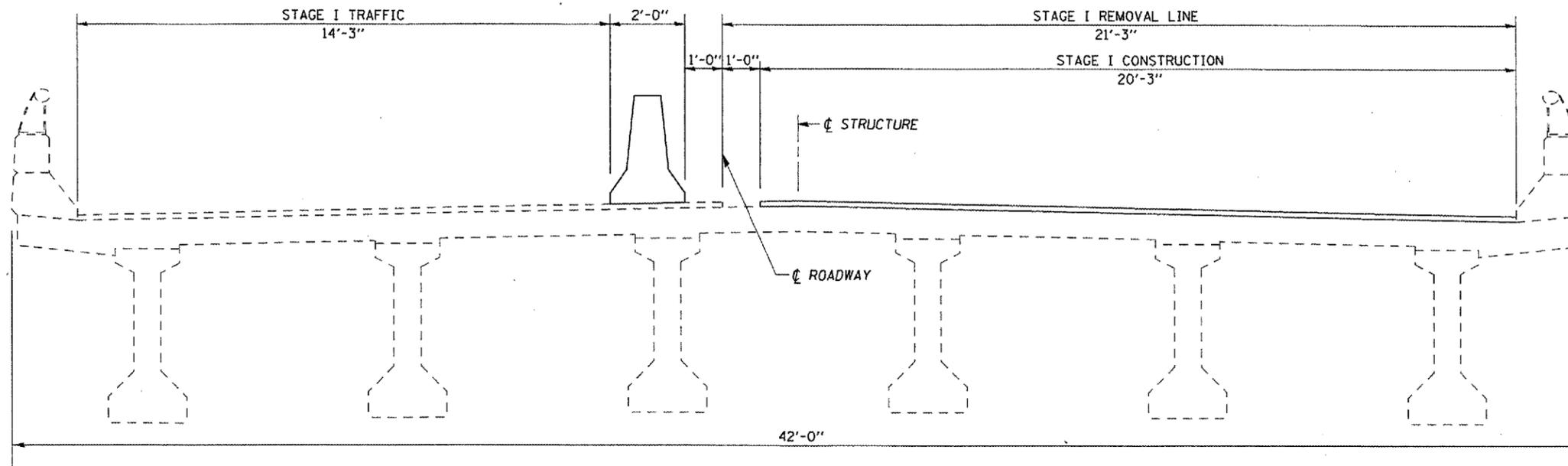
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	MCLEAN	41	15

* 157-21B&57-22B&BDR

SHEET 3 OF 8

STAGE I CONSTRUCTION

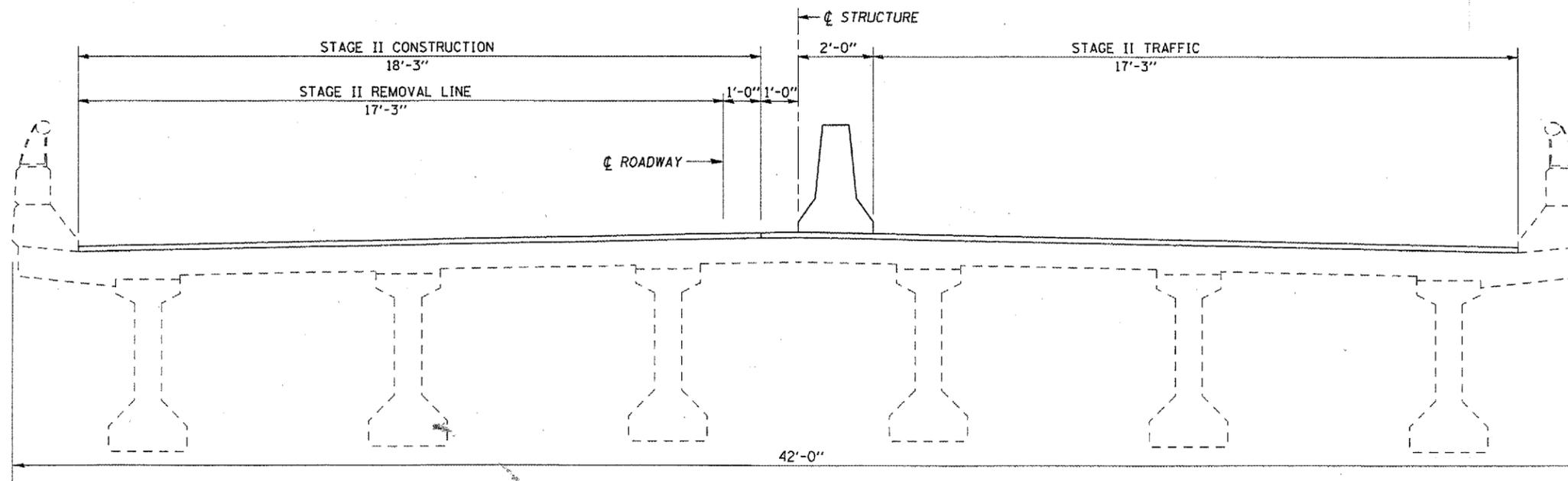
S.N. 057-0121



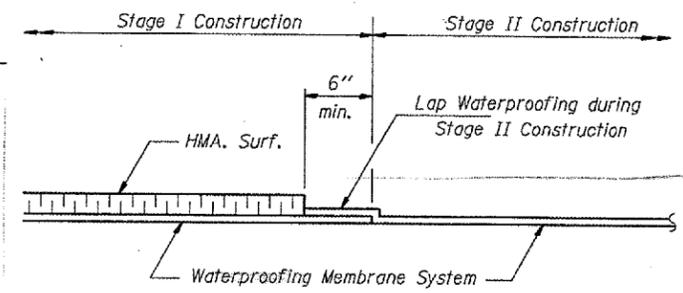
WESTBOUND (LOOKING WEST)

STAGE II CONSTRUCTION

S.N. 057-0121



WESTBOUND (LOOKING WEST)



WATERPROOFING TREATMENT AT STAGE CONSTRUCTION

PLOT DATE: 8/16/2007
 FILE NAME: c:\projects\58187\157\157B&57\157B&57.dgn
 PLOT SCALE: 1/8"=1'-0"
 USER NAME: collierb

ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE CONSTRUCTION
 F.A.I. ROUTE 74
 SECTION (57-21B&57-22B)&BDR
 MCLEAN COUNTY
 S.N. 057-0121

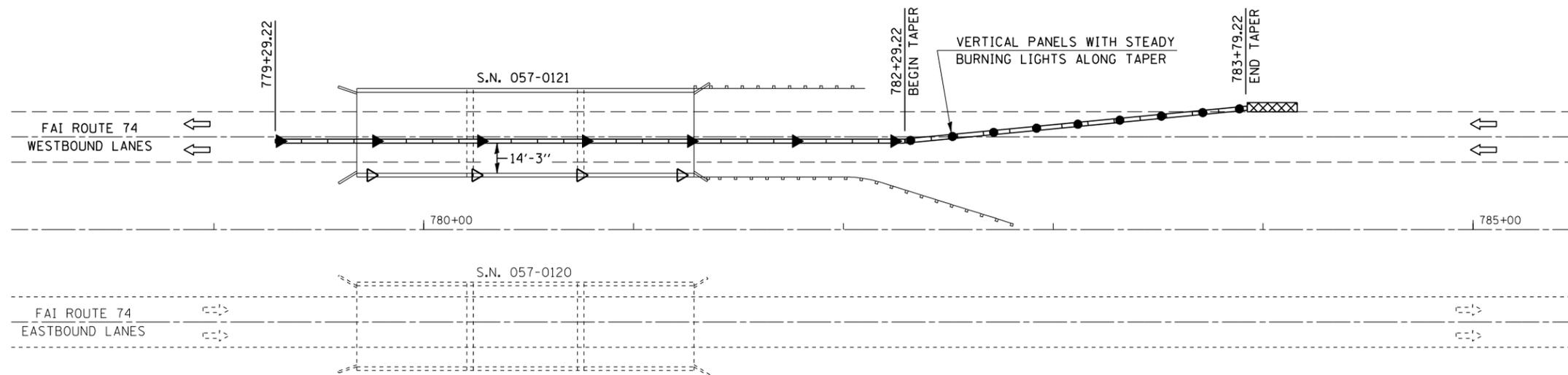
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 CHECKED BY:

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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* (57-21B&57-22B)&BDR

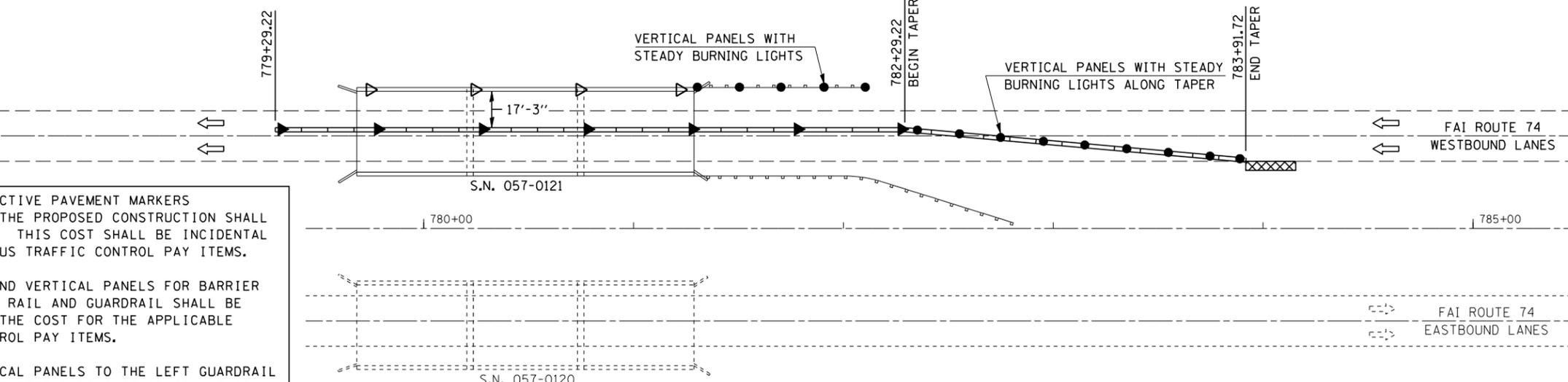
SHEET 4 OF 8

STAGE I CONSTRUCTION S.N. 057-0121 (WESTBOUND)



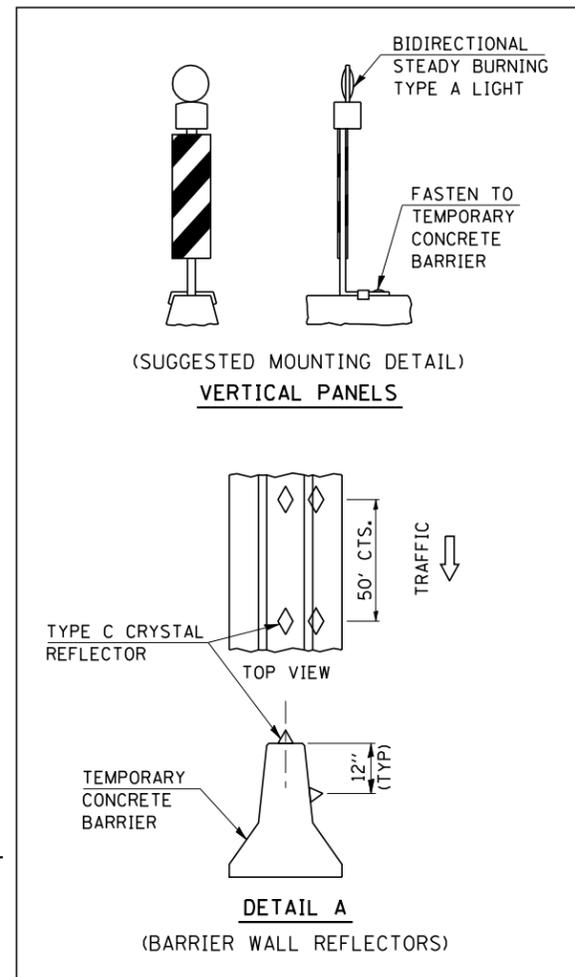
70400100 TEMPORARY CONCRETE BARRIER
STA 779+29.22 TO STA 783+79.22 = 450.0'

STAGE II CONSTRUCTION S.N. 057-0121 (WESTBOUND)



70400200 RELOCATE TEMPORARY CONCRETE BARRIER
STA 779+29.22 TO STA 783+91.72 = 462.5'

SYMBOLS	
	AMBER MONODIRECTIONAL REFLECTOR 50' CTS
	CRYSTAL MONODIRECTIONAL REFLECTOR 50' CTS
	TEMPORARY CONCRETE BARRIER
	VERTICAL PANELS WITH STEADY BURNING LIGHTS ALONG TAPER 20' CTS
	IMPACT ATTENUATOR



PLAN NOTES:

ALL STAGING DETAILS SET UP IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION 701402.

PRIOR TO BARRIER PLACEMENT TRAFFIC CONTROL SHALL BE SET UP IN ACCORDANCE WITH STANDARD 701406.

TRAFFIC CONTROL DETAILS NOT SHOWN ARE TO CONFORM WITH STANDARD 701400 AND 701402.

MESSAGE BOARD SHALL BE PLACED TWO WEEKS PRIOR TO CONSTRUCTION AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS.

RESIDENT ENGINEER AND TRAFFIC CONTROL SUPERVISOR SHALL PROVIDE APPROPRIATE MESSAGE FOR CMS.

RAISED REFLECTIVE PAVEMENT MARKERS AFFECTED BY THE PROPOSED CONSTRUCTION SHALL BE REPLACED. THIS COST SHALL BE INCIDENTAL TO THE VARIOUS TRAFFIC CONTROL PAY ITEMS.

REFLECTORS AND VERTICAL PANELS FOR BARRIER WALL, BRIDGE RAIL AND GUARDRAIL SHALL BE INCLUDED IN THE COST FOR THE APPLICABLE TRAFFIC CONTROL PAY ITEMS.

ATTACH VERTICAL PANELS TO THE LEFT GUARDRAIL AT 25 FOOT CENTERS DURING STAGE II. THIS COST WILL BE INCIDENTAL TO STANDARD 701402.

REFLECTORIZED TEMPORARY MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND ALONG-SIDE THE WORK AREA. THE EDGE LINE SHALL BE YELLOW FOR LEFT LANE CLOSURES. COST FOR THE PLACEMENT AND REMOVAL SHALL BE INCLUDED IN COST FOR APPLICABLE TRAFFIC CONTROL PAY ITEM.

ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE CONSTRUCTION
F.A.I. ROUTE 74
SECTION (57-21B&57-22B)&BDR
MCLEAN COUNTY
S.N. 057-0121

SCALE: 1" = 30'
DATE: 03/24/07

DRAWN BY: JRP
CHECKED BY:

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USER NAME = collierb

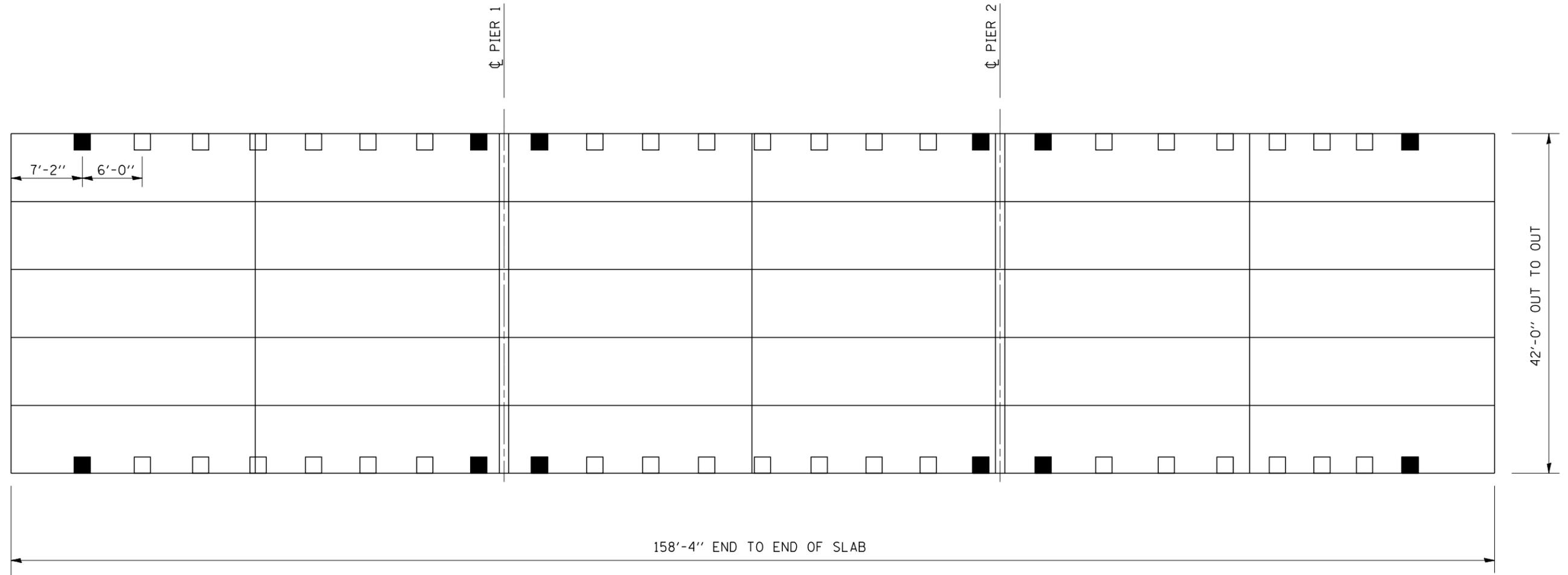
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	MCLEAN	41	18

*(57-21B&57-22B)&BDR

LOCATION OF DRAINS S.N. 057-0121 WESTBOUND



SHEET 6 OF 8



NOTE:
SEE SHEET 7 OF 8 FOR PLUG
EXISTING DECK DRAINS DETAIL.

LEGEND	
	EXISTING DRAINS TO BE PLUGGED
	EXISTING DRAINS TO REMAIN

ILLINOIS DEPARTMENT OF TRANSPORTATION
LOCATION OF DRAINS
F.A.I. ROUTE 74
SECTION (57-21B&57-22B)&BDR
MCLEAN COUNTY
S.N. 057-0121

SCALE: NA DRAWN BY: JRP
DATE: 03/22/07 CHECKED BY:

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	MCLEAN	41	19

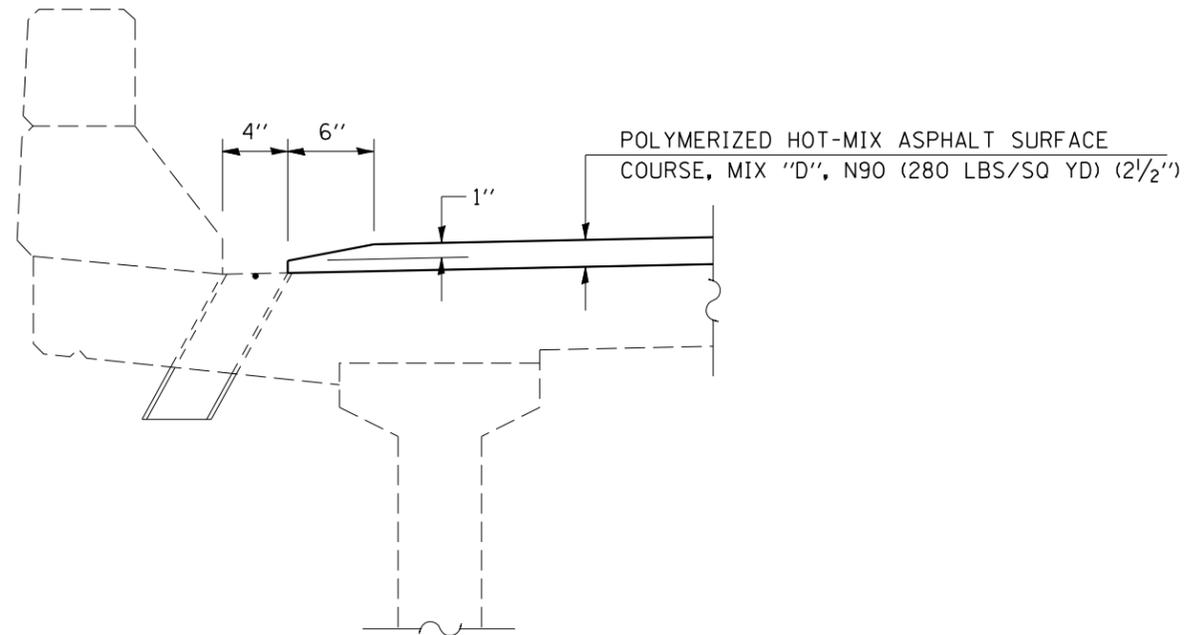
* (57-21B&57-22B)&BDR

SHEET 7 OF 8

DECK DRAIN REPAIR

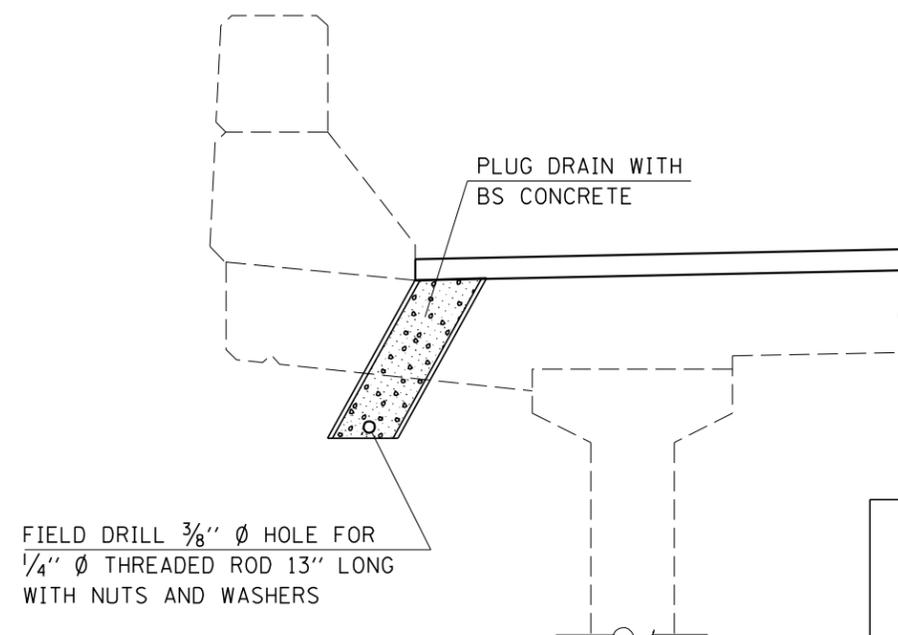
SN 057-0121

DETAIL OF DRAIN AT CURB



SECTION AT DRAIN

PLUG EXISTING DECK DRAINS



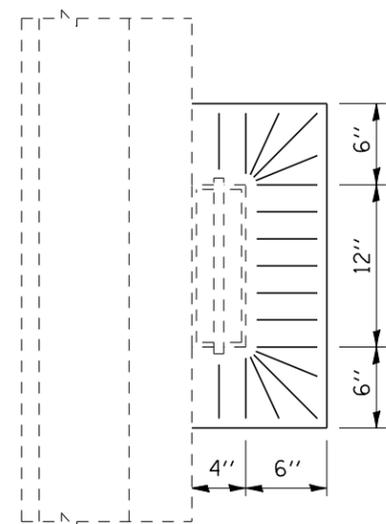
NOTE:
SEE SHEET 6 OF 8 FOR
DRAINS TO BE PLUGGED

SECTION AT DRAIN

FIELD DRILL $\frac{3}{8}$ " \varnothing HOLE FOR
 $\frac{1}{4}$ " \varnothing THREADED ROD 13" LONG
WITH NUTS AND WASHERS

PLAN NOTE:
ON EXISTING DECK DRAINS WITH EXTENSIONS,
REMOVE BOTTOM PORTION OF EXISTING DRAIN.
(COST INCLUDED WITH PLUG EXISTING DECK DRAINS)

POLYMERIZED HMA AROUND DRAIN AT CURB SHALL
BE COMPACTED TO SATISFACTION OF ENGINEER.



PLAN VIEW

PLOT DATE = 8/16/2007
 FILE NAME = c:\projects\45901187 (61\70641cover.dgn
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 USER NAME = collierb

ILLINOIS DEPARTMENT OF TRANSPORTATION
DECK DRAIN REPAIR
 F.A.I. ROUTE 74
 SECTION (57-21B&57-22B)&BDR
 MCLEAN COUNTY
 SN 057-0121

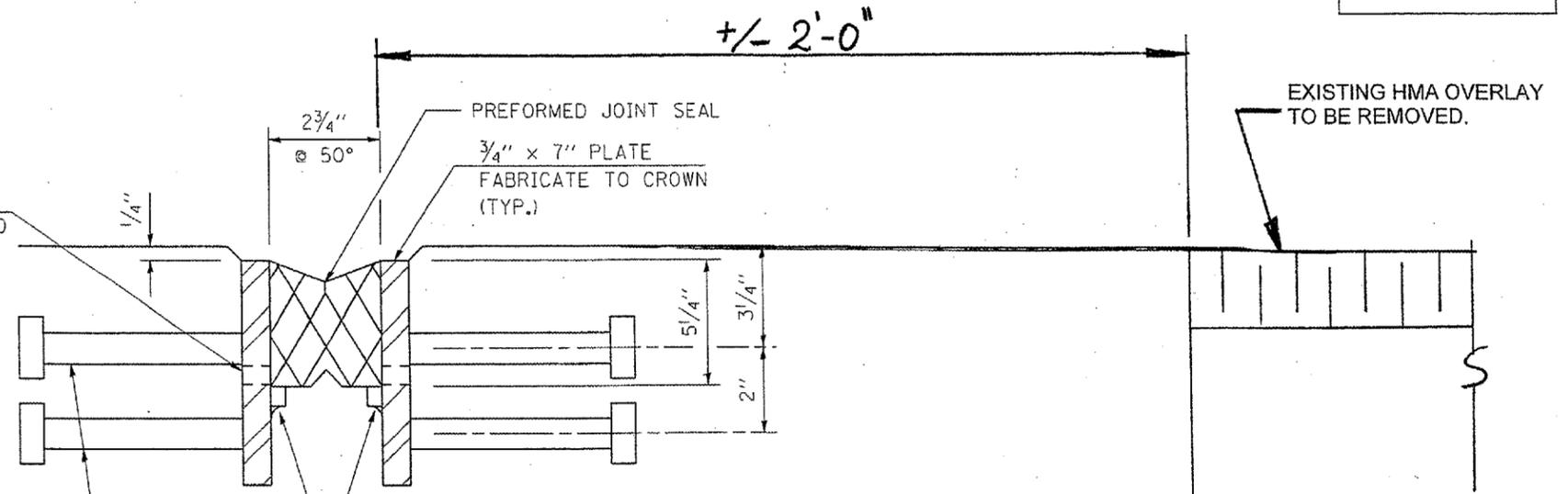
SCALE: NA DRAWN BY: JRP
 DATE: 03/22/07 CHECKED BY:

EAST AND WEST ABUTMENT JOINT DETAILS

SN 057-0121

SHEET 8 OF 8

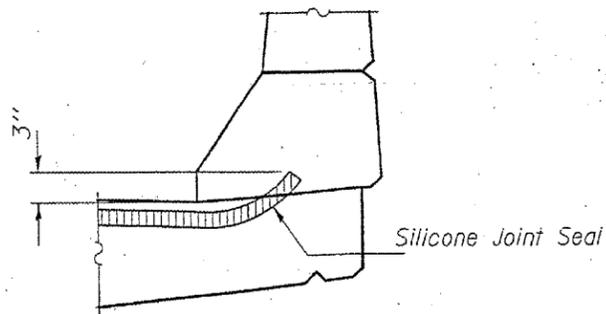
1/16" Ø HOLES AT 12" CTS. FOR 3/8" Ø BOLTS.
ALL BOLTS SHALL BE BURNED, SAWED OR CHIPPED OFF FLUSH WITH THE PLATES AFTER FORMS ARE REMOVED. (TYP.)



3/4" O x 8" GRANULAR OR SOLID FLUX FILLED HEADED STUDS CONFORMING TO ART. 706.32 OF THE STD. SPEC'S. AUTOMATICALLY END WELDED AT 12" ALT. CTS.

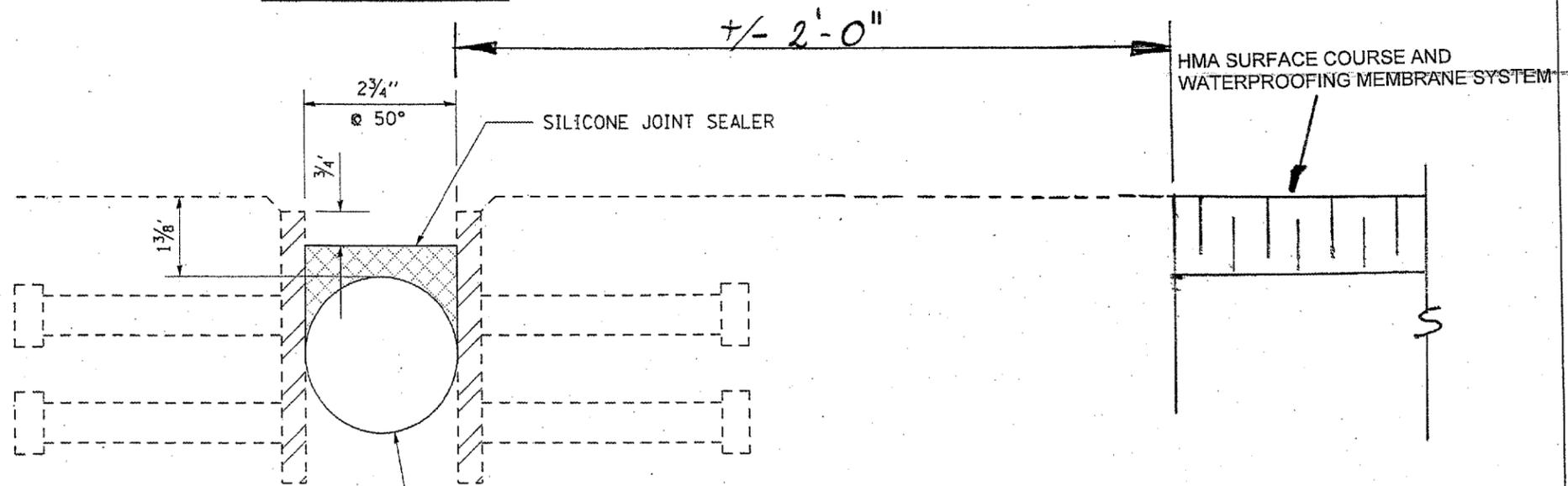
1/2" x 1/2" BARS
TACK WELDED AT 6" CTS.

NOTE:
REMOVAL OF THE EXISTING PREFORMED JOINT SEAL IS INCLUDED IN THE COST OF SILICONE JOINT SEALER



TYPICAL END OF SEAL TREATMENT AT EXPANSION JOINT

EXISTING JOINT



BACKER ROD HAVING A DIAMETER 25% GREATER THAN JOINT OPENING AT THE TIME OF INSTALLATION.

PROPOSED JOINT

BILL OF MATERIALS

ITEM	UNITS	TOTAL
SILICONE JOINT SEALER, 2 3/4"	FOOT	80

ILLINOIS DEPARTMENT OF TRANSPORTATION
EAST & WEST ABUTMENT
JOINT DETAILS
F.A.I. ROUTE 74
SECTION (57-21B&57-22B)&BDR
MCLEAN COUNTY
SN 057-0121

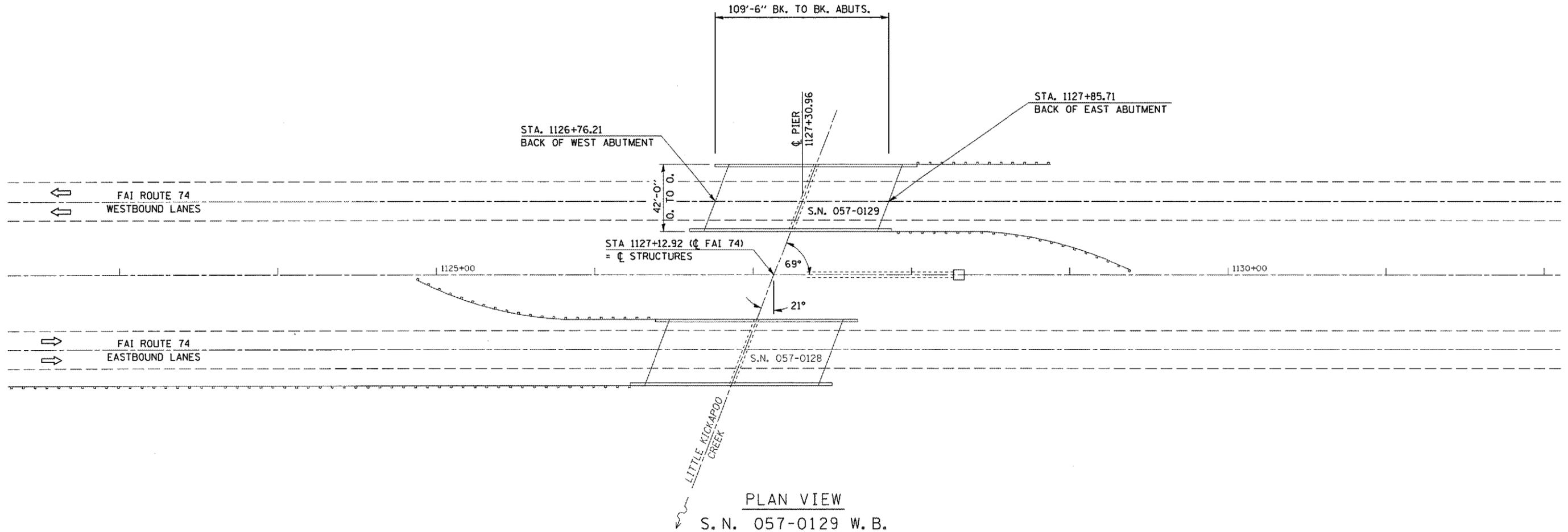
SCALE: NA
DATE: 03/24/07
DRAWN BY: JRP
CHECKED BY:

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	MCLEAN	41	21
STA. 1123+00 TO STA. 1132+00		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
* (57-21B&57-22B)&BDR				

SHEET 1 OF 14

GENERAL PLAN

S.N. 057-0129



PLAN VIEW

S.N. 057-0129 W.B.

BILL OF MATERIALS

ITEM	UNITS	QUANTITY
POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	GALLON	44.0
HOT-MIX ASPHALT REMOVAL 1 3/4"	SQ YD	441.0
PLUG EXISTING DECK DRAINS	EACH	10.0
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90.	TON	44.0
DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	11.0
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	60.0
DECK SLAB REPAIR (PARTIAL)	SQ YD	66.0
FLOOR DRAIN EXTENSIONS	EACH	24.0
SILICONE JOINT SEALER, 1 1/2"	FOOT	86.0
REINFORCEMENT BARS, EPOXY COATED	POUNDS	3,390.0
POLYMER CONCRETE	CU FT	6.4
BAR SPLICER	EACH	24.0
CONCRETE REMOVAL	CU YD	23.7
CONCRETE SUPERSTRUCTURE	CU YD	23.7

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE 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 THE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION OR A CHANGE IN THE SCOPE OF WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE CONTRACT UNIT PRICE FOR THE WORK.

THE DECK SLAB REPAIR (PARTIAL & FULL DEPTH) QUANTITY IS ESTIMATED AND THE ACTUAL LOCATIONS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER AFTER THE HOT-MIX ASPHALT OVERLAY AND WATERPROOFING ARE REMOVED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK REPAIRS ON AS-BUILT PLANS ON SHEET 5 OF 14.

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN
 F.A.I. ROUTE 74
 SECTION (57-21B&57-22B)&BDR
 MCLEAN COUNTY
 S.N. 057-0129

SCALE: 1" = 30'
 DATE: 03/22/07
 DRAWN BY: JRP
 CHECKED BY:

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 USER NAME: collierb

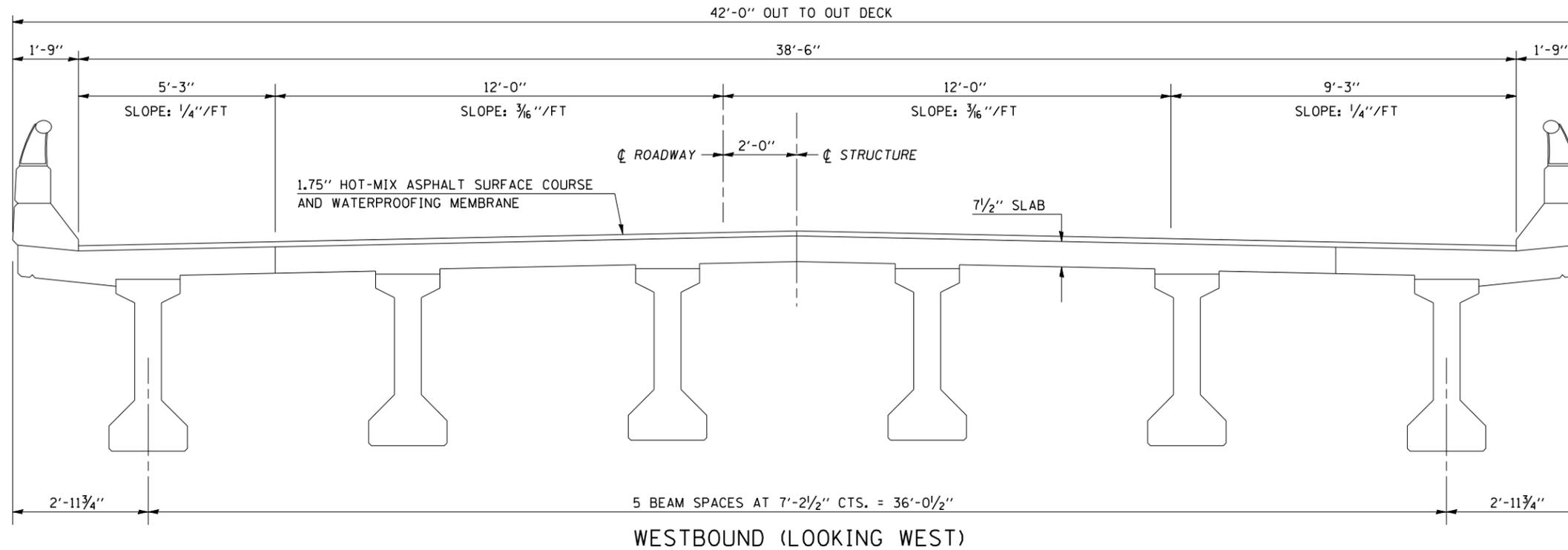
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	MCLEAN	41	22

* (57-21B&57-22B)&BDR

SHEET 2 OF 14

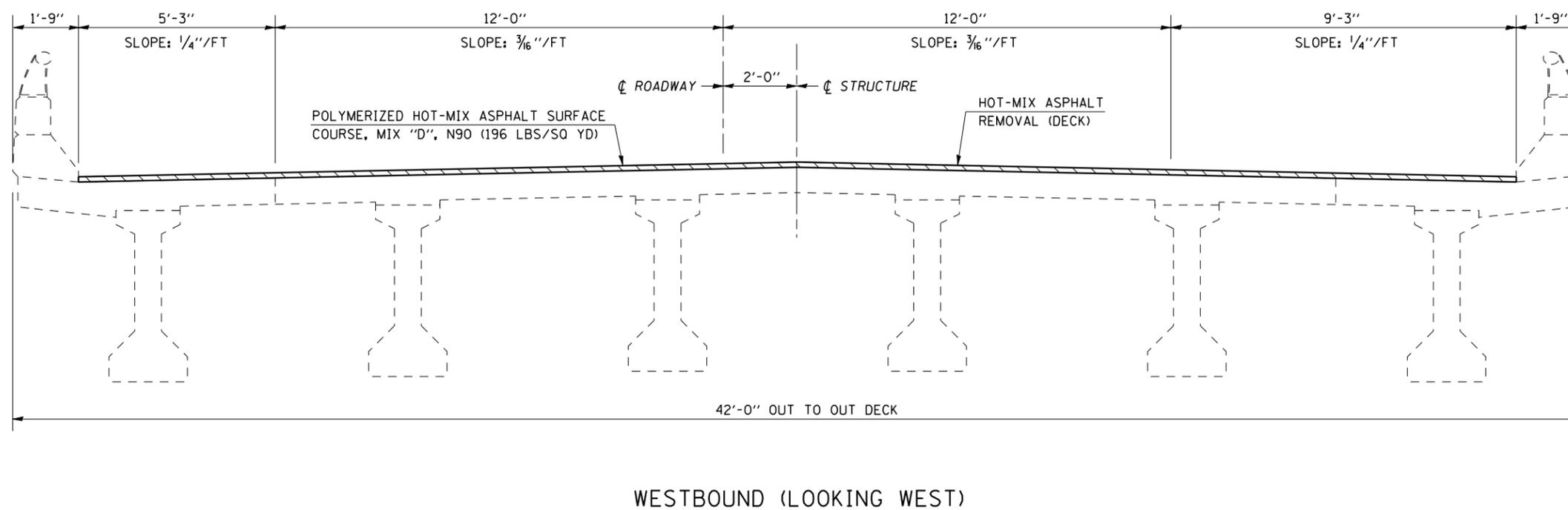
EXISTING TYPICAL CROSS SECTION

S.N. 057-0129



PROPOSED TYPICAL CROSS SECTION

S.N. 057-0129



ILLINOIS DEPARTMENT OF TRANSPORTATION
 TYPICAL CROSS SECTION
 F.A.I. ROUTE 74
 SECTION (57-21B&57-22B)&BDR
 MCLEAN COUNTY
 S.N. 057-0129

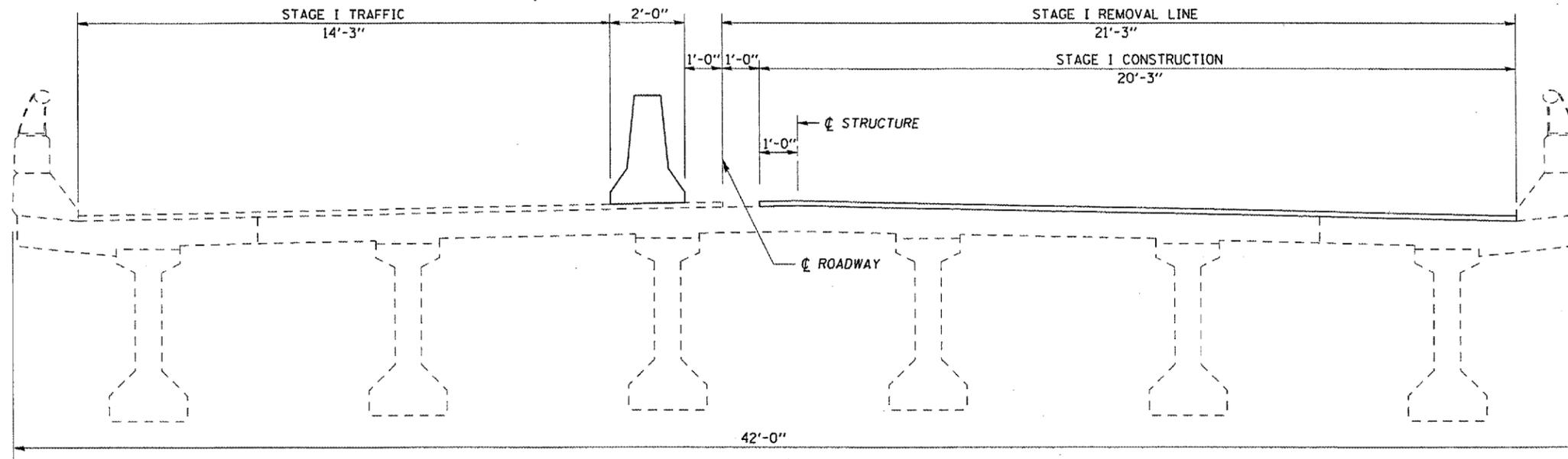
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	MCLEAN	41	23

* 157-21B&57-22B1&BDR

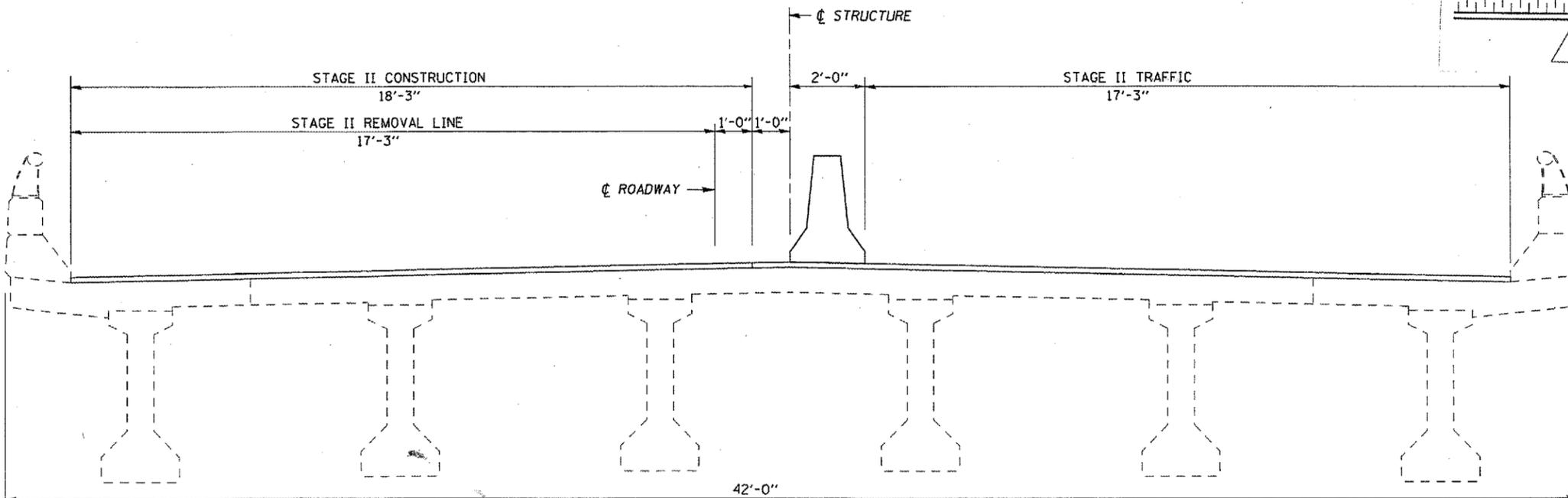
SHEET 3 OF 14

STAGE I CONSTRUCTION
S.N. 057-0129

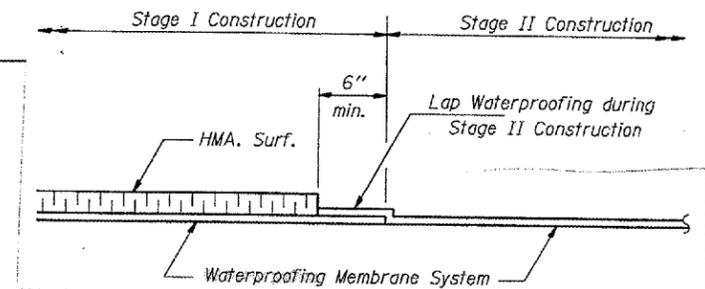


WESTBOUND (LOOKING WEST)

STAGE II CONSTRUCTION
S.N. 057-0129



WESTBOUND (LOOKING WEST)



WATERPROOFING TREATMENT
AT STAGE CONSTRUCTION

PLT DATE = 8/16/2007
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USER NAME = colterbu

ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE CONSTRUCTION
F.A.I. ROUTE 74
SECTION (57-21B&57-22B1&BDR)
MCLEAN COUNTY
S.N. 057-0129

SCALE: NA
DATE: 03/22/07

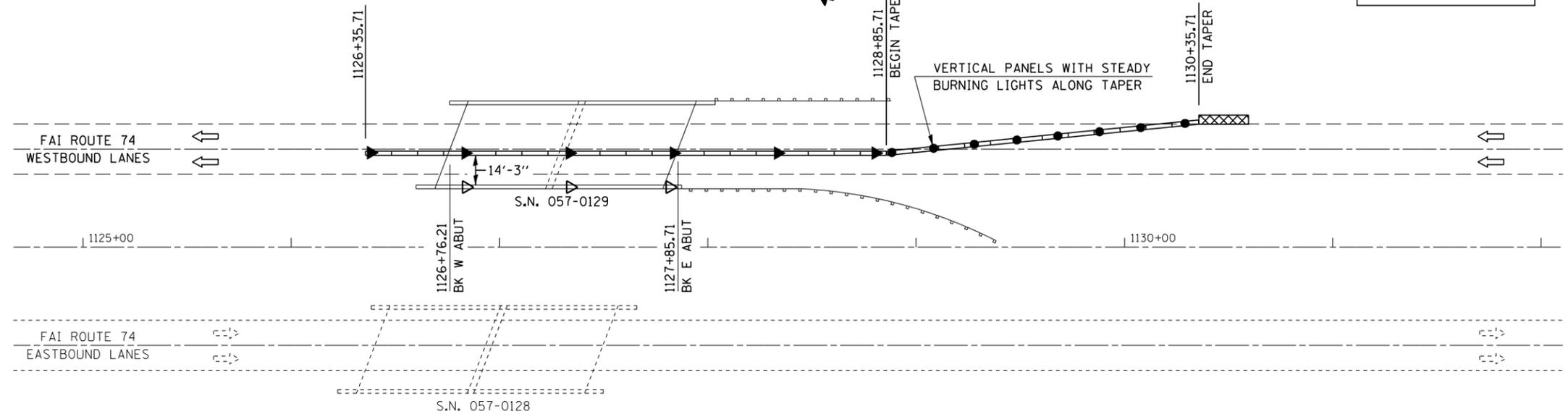
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	MCLEAN	41	24

*(57-21B&57-22B)&BDR

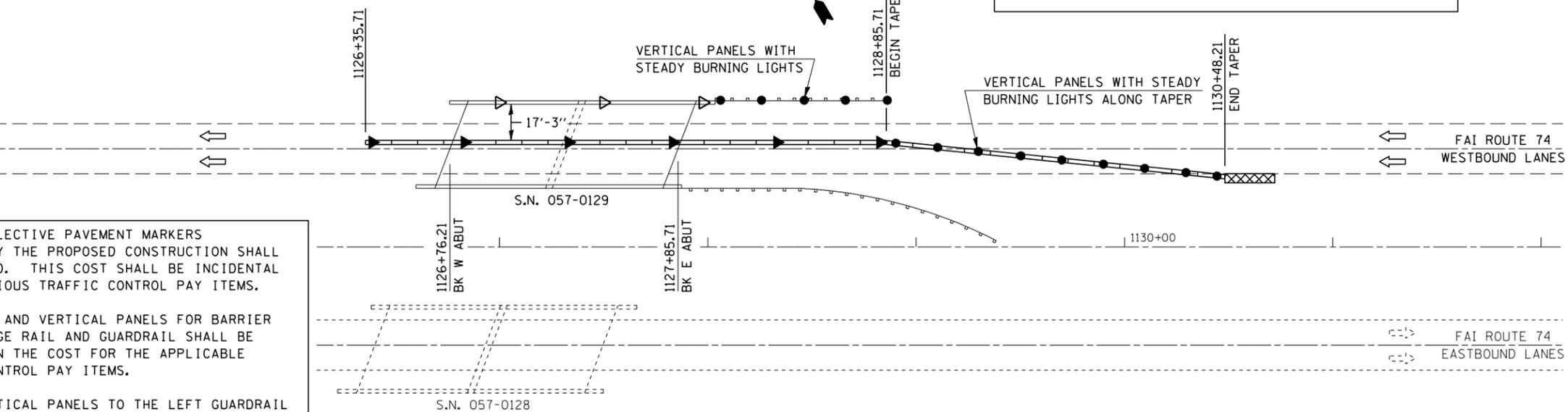
SHEET 4 OF 14

STAGE I CONSTRUCTION S.N. 057-0129 (WESTBOUND)



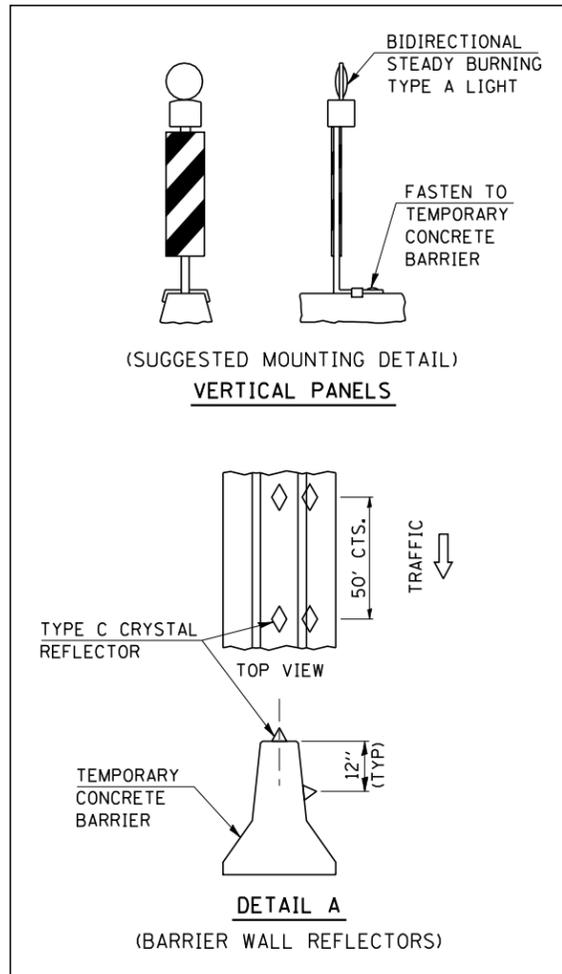
70400100 TEMPORARY CONCRETE BARRIER
STA 1126+35.71 TO STA 1130+35.71 = 400.0'

STAGE II CONSTRUCTION S.N. 057-0129 (WESTBOUND)



70400200 RELOCATE TEMPORARY CONCRETE BARRIER
STA 1126+35.71 TO STA 1130+48.21 = 412.5'

SYMBOLS	
	AMBER MONODIRECTIONAL REFLECTOR 50' CTS
	CRYSTAL MONODIRECTIONAL REFLECTOR 50' CTS
	TEMPORARY CONCRETE BARRIER
	VERTICAL PANELS WITH STEADY BURNING LIGHTS ALONG TAPER 20' CTS
	IMPACT ATTENUATOR



PLAN NOTES:

ALL STAGING DETAILS SET UP IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION 701402.

PRIOR TO BARRIER PLACEMENT TRAFFIC CONTROL SHALL BE SET UP IN ACCORDANCE WITH STANDARD 701406.

TRAFFIC CONTROL DETAILS NOT SHOWN ARE TO CONFORM WITH STANDARD 701400 AND 701402.

MESSAGE BOARD SHALL BE PLACED TWO WEEKS PRIOR TO CONSTRUCTION AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS.

RESIDENT ENGINEER AND TRAFFIC CONTROL SUPERVISOR SHALL PROVIDE APPROPRIATE MESSAGE FOR CMS.

RAISED REFLECTIVE PAVEMENT MARKERS AFFECTED BY THE PROPOSED CONSTRUCTION SHALL BE REPLACED. THIS COST SHALL BE INCIDENTAL TO THE VARIOUS TRAFFIC CONTROL PAY ITEMS.

REFLECTORS AND VERTICAL PANELS FOR BARRIER WALL, BRIDGE RAIL AND GUARDRAIL SHALL BE INCLUDED IN THE COST FOR THE APPLICABLE TRAFFIC CONTROL PAY ITEMS.

ATTACH VERTICAL PANELS TO THE LEFT GUARDRAIL AT 25 FOOT CENTERS DURING STAGE II. THIS COST WILL BE INCIDENTAL TO STANDARD 701402.

REFLECTORIZED TEMPORARY MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND ALONG-SIDE THE WORK AREA. THE EDGE LINE SHALL BE YELLOW FOR LEFT LANE CLOSURES. COST FOR THE PLACEMENT AND REMOVAL SHALL BE INCLUDED IN COST FOR APPLICABLE TRAFFIC CONTROL PAY ITEM.

ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE CONSTRUCTION
F.A.I. ROUTE 74
SECTION (57-21B&57-22B)&BDR
MCLEAN COUNTY
S.N. 057-0129

SCALE: 1" = 30'
DATE: 03/24/07
DRAWN BY: JRP
CHECKED BY:

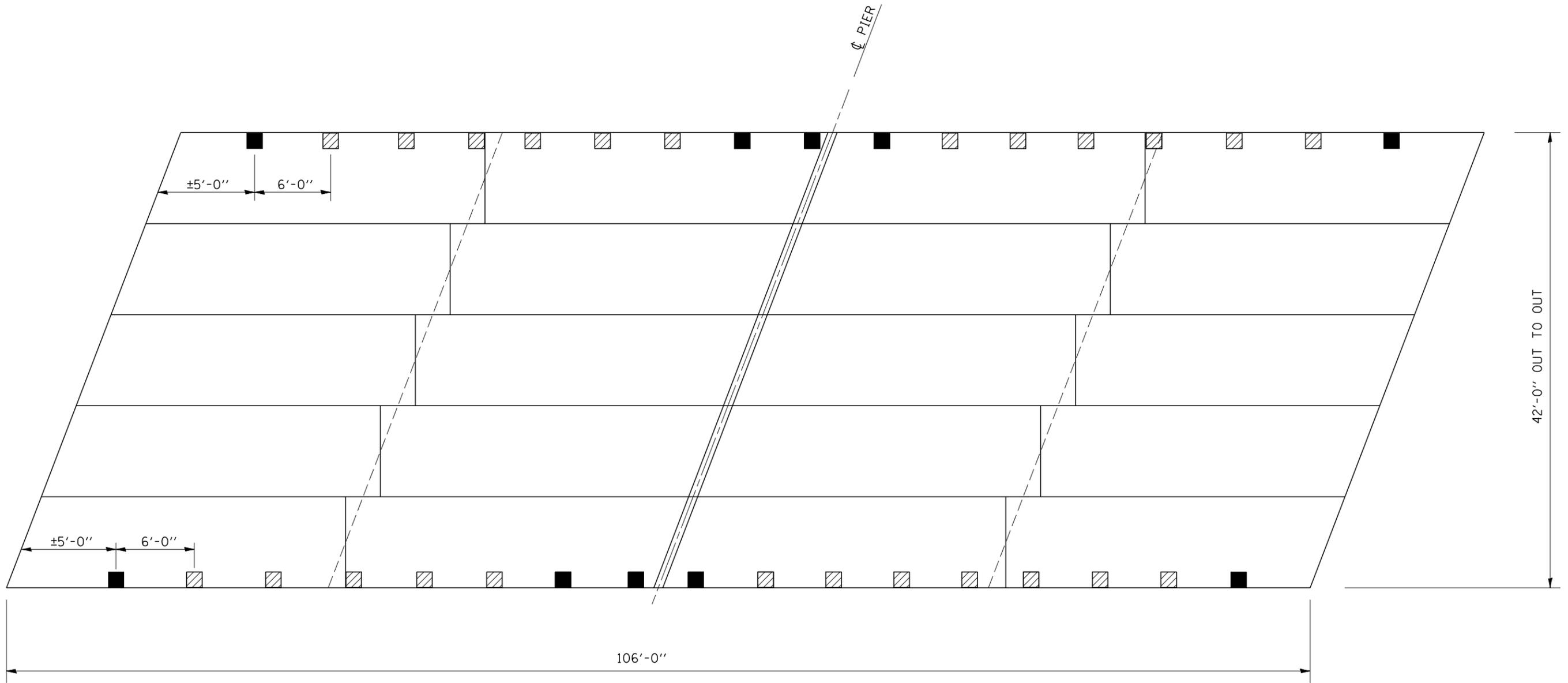
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	MCLEAN	41	26

* (57-21B&57-22B)&BDR

SHEET 6 OF 14

LOCATION OF DRAINS

S.N. 057-0129 WESTBOUND



NOTE:
SEE SHEET 11 OF 14 FOR PLUG
EXISTING DECK DRAINS DETAIL.

LEGEND	
■	EXISTING DRAINS TO BE PLUGGED
▨	EXISTING DRAINS TO BE EXTENDED

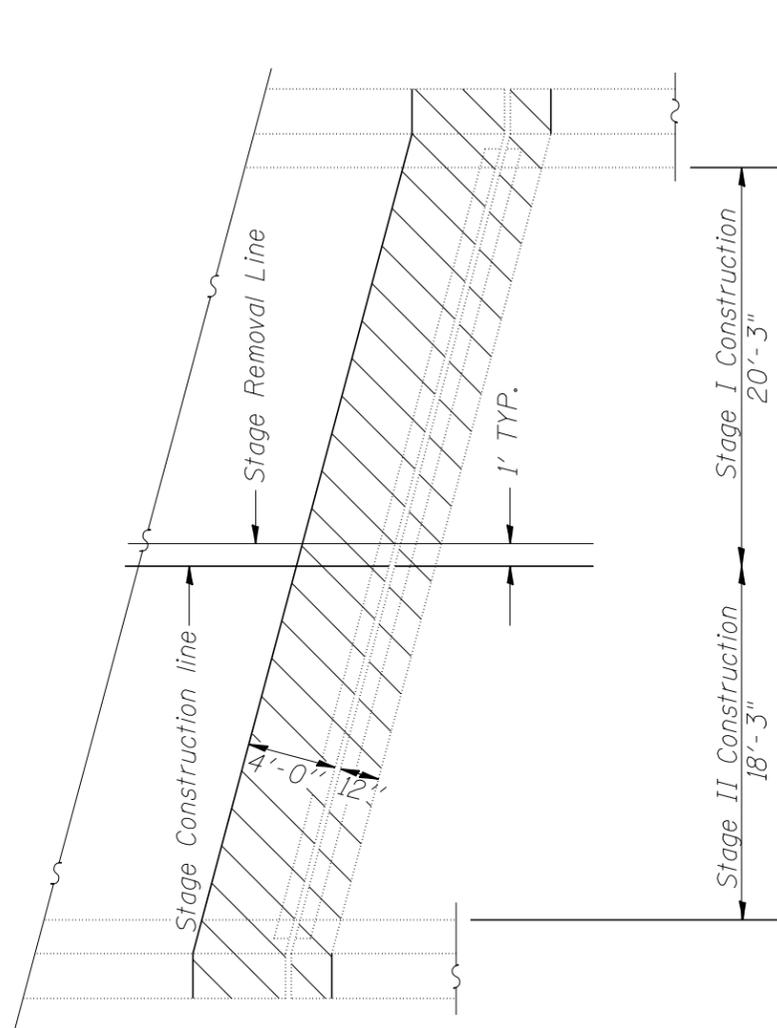
ILLINOIS DEPARTMENT OF TRANSPORTATION
LOCATION OF DRAINS
 F.A.I. ROUTE 74
 SECTION (57-21B&57-22B)&BDR
 MCLEAN COUNTY
 S.N. 057-0129

SCALE: NA
 DATE: 03/22/07

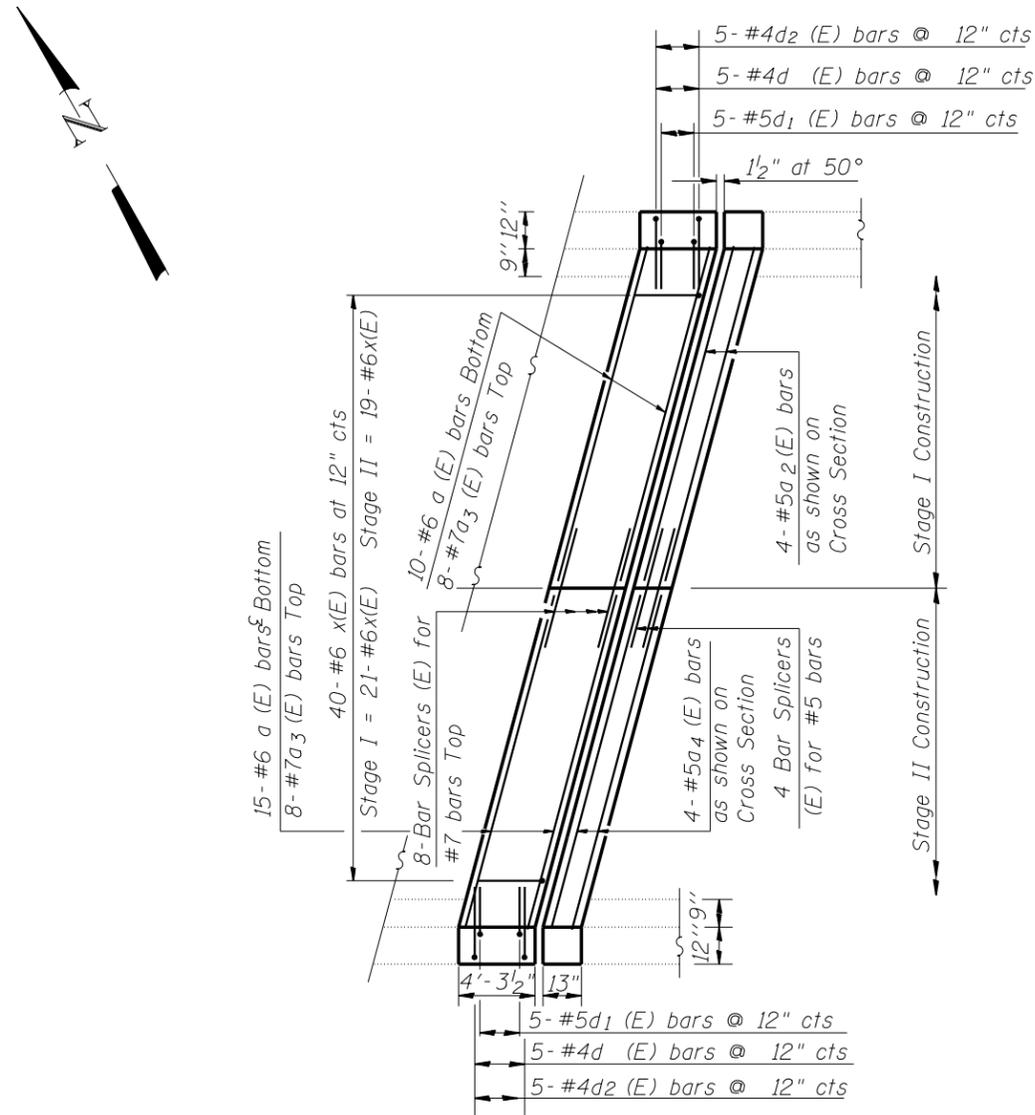
DRAWN BY: JRP
 CHECKED BY:

JOINT REPAIR AT EAST ABUTMENT

SN 057-0129



EXISTING PARTIAL PLAN
JOINT AT EAST ABUTMENT



PROPOSED PARTIAL PLAN
JOINT AT EAST ABUTMENT

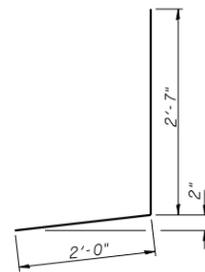
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a (E)	25	#6	6'-9"	—
a ₁ (E)	8	#7	22'-9"	—
a ₂ (E)	4	#5	22'-9"	—
a ₃ (E)	8	#7	20'-7"	—
a ₄ (E)	4	#5	20'-7"	—
d(E)	10	#4	4'-7"	J
d(E)	10	#5	3'-5"	J
d ₂ (E)	10	#4	2'-1"	□
x(E)	40	#6	7'-10"	┌
Reinforcement Bars, Epoxy Coated			Pound	1,695
Bar Splicers			Each	12

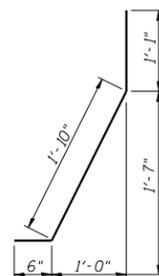
Reinforcement bars designated (E) shall be epoxy coated.

Hatched area indicates Concrete Removal.

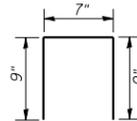
See Sheet 8 of 14 for Section Thru Parapet and Proposed Joint Section



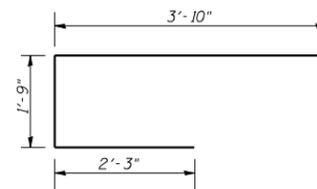
BAR d(E)



BAR d₁(E)



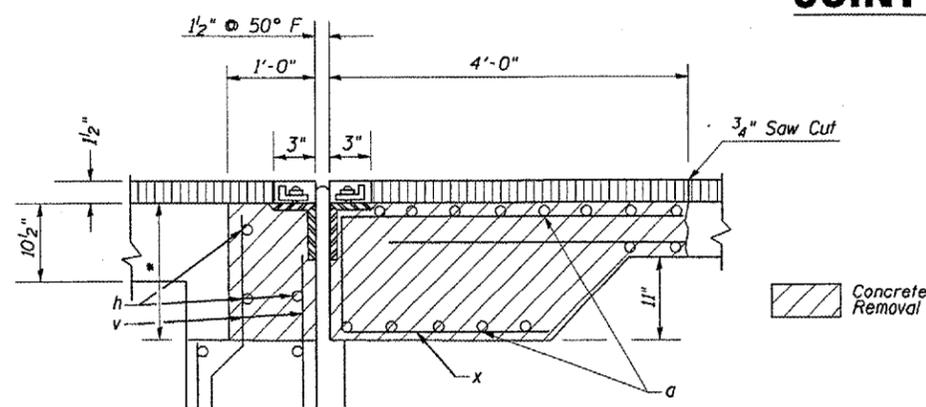
BAR d₂(E)



BAR x(E)

JOINT REPAIR AT EAST ABUTMENT

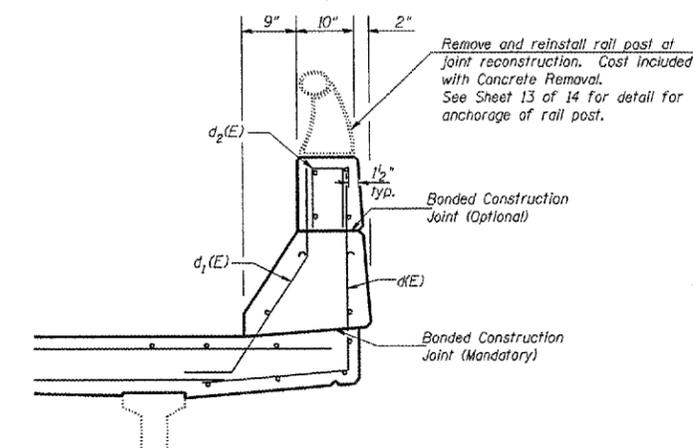
SN 057-0129



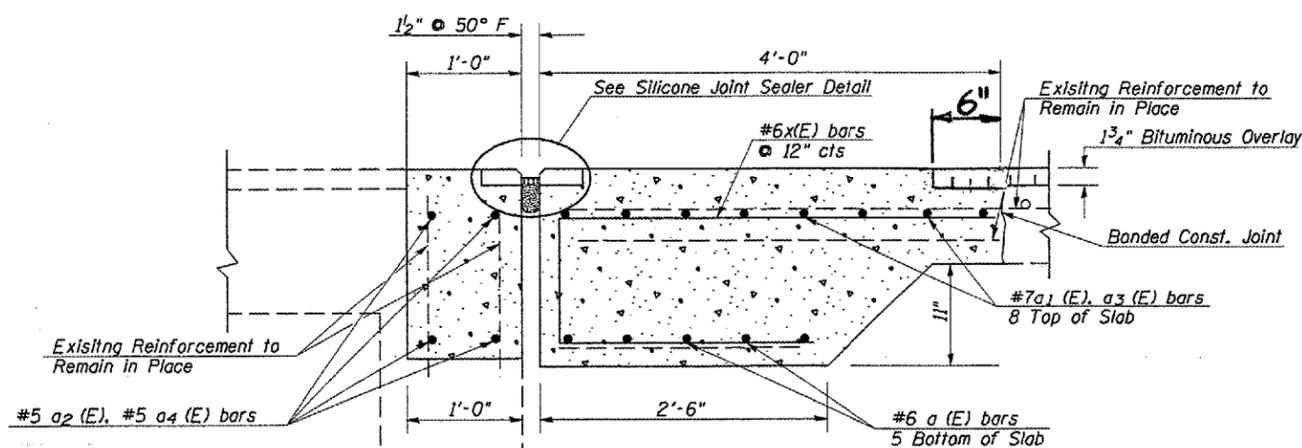
* Varies from 1'-3 5/8" to 1'-8"

Note: Removal of Existing Neoprene Expansion Joint is included in the cost of Concrete Removal

EXISTING SECTION AT EAST ABUTMENT

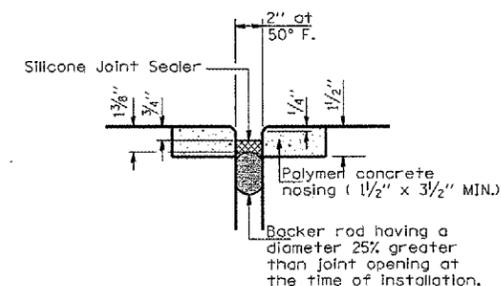


SECTION THRU PARAPET

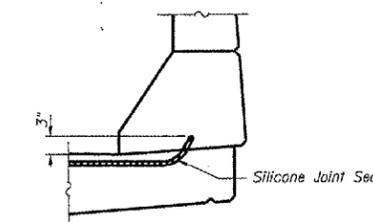


PROPOSED SECTION AT EAST ABUTMENT

New Concrete



SILICONE JOINT SEALER DETAIL



TYPICAL END OF SEAL TREATMENT AT EXPANSION JOINT

BILL OF MATERIAL

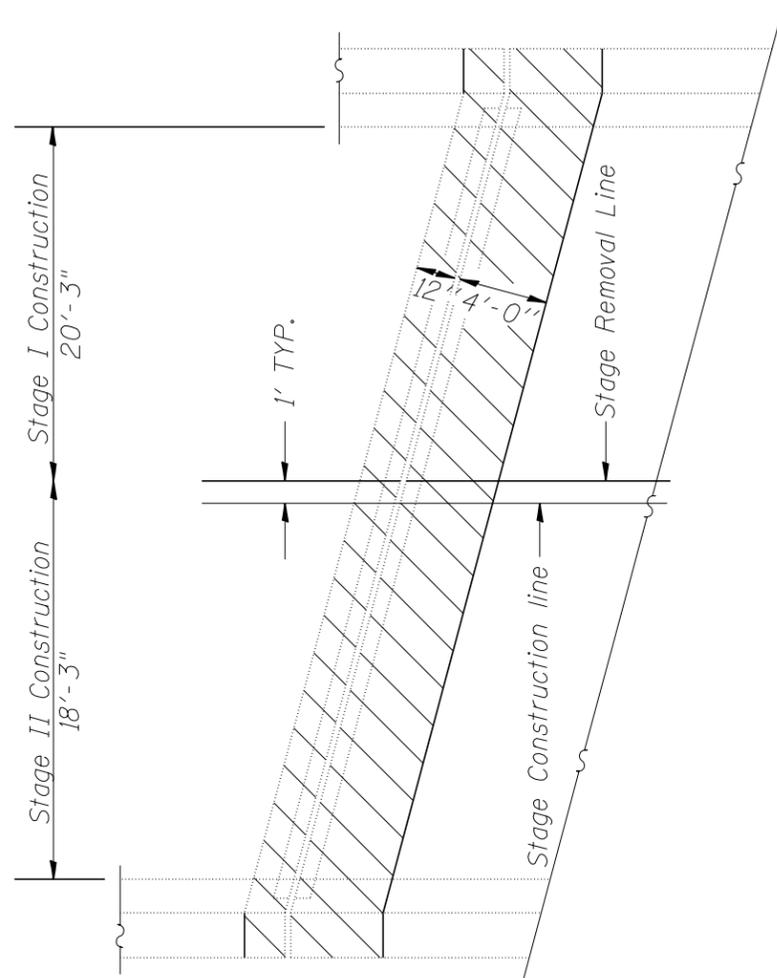
Item	Unit	TOTAL
Concrete Removal	Cu. Yd.	11.85
Concrete Superstructure	Cu. Yd.	11.85
Polymer Concrete	Cu. Ft.	3.2
Silicone Joint Sealer, 1 1/2"	Foot	43

ILLINOIS DEPARTMENT OF TRANSPORTATION
JOINT REPAIR AT EAST ABUTMENT
 F.A.I. ROUTE 74
 SECTION (57-21B&57-22B)&BDR
 MCLEAN COUNTY
 SN 057-0129

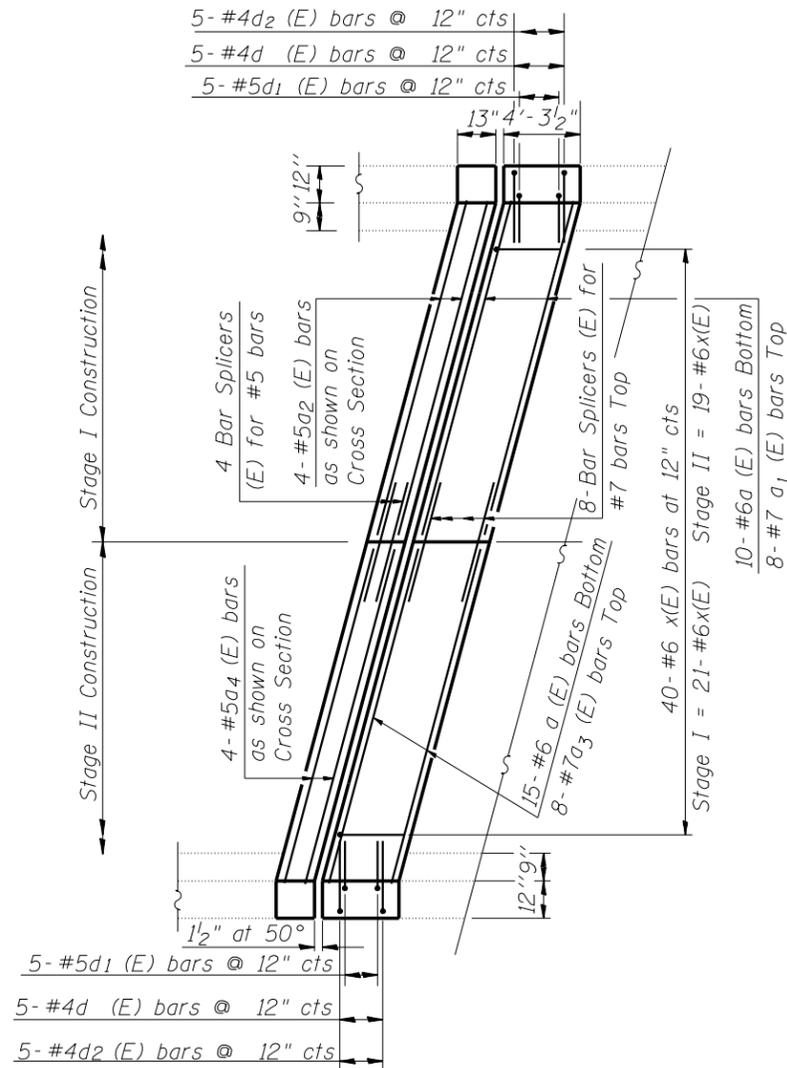
SCALE: NA
 DATE: 03/28/07
 DRAWN BY: RC
 CHECKED BY:

JOINT REPAIR AT WEST ABUTMENT

SN 057-0129



EXISTING PARTIAL PLAN
JOINT AT WEST ABUTMENT



PROPOSED PARTIAL PLAN
JOINT AT WEST ABUTMENT

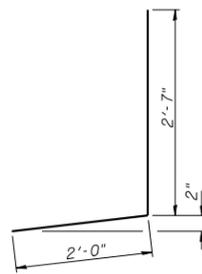
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a (E)	25	#6	6'-9"	—
a ₁ (E)	8	#7	22'-9"	—
a ₂ (E)	4	#5	22'-9"	—
a ₃ (E)	8	#7	20'-7"	—
a ₄ (E)	4	#5	20'-7"	—
d(E)	10	#4	4'-7"	J
d(E)	10	#5	3'-5"	J
d ₂ (E)	10	#4	2'-1"	□
x(E)	40	#6	7'-10"	⌊
Reinforcement Bars, Epoxy Coated			Pound	1,695
Bar Splicers			Each	12

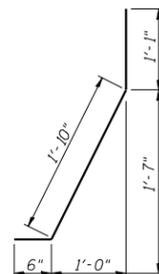
Reinforcement bars designated (E) shall be epoxy coated.

Hatched area indicates Concrete Removal.

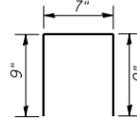
See Sheet 10 of 14 for Section Thru Parapet and Proposed Joint Section



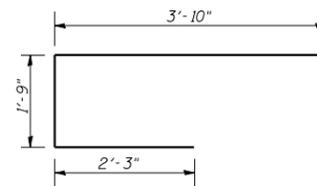
BAR d(E)



BAR d₁(E)



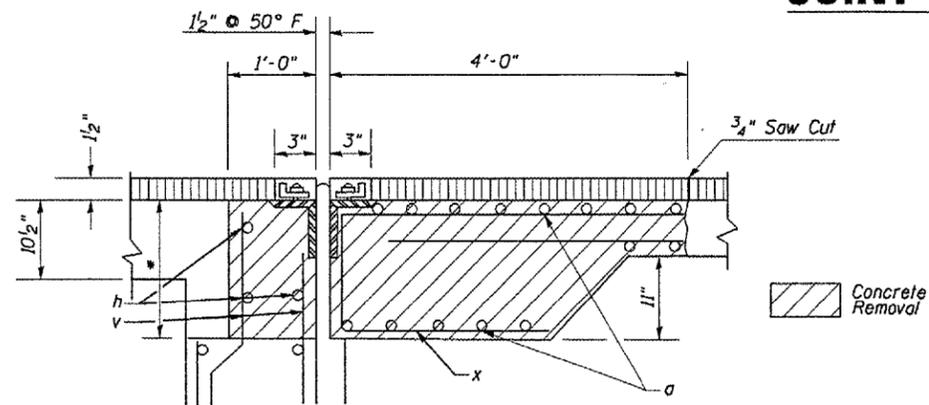
BAR d₂(E)



BAR x(E)

JOINT REPAIR AT WEST ABUTMENT

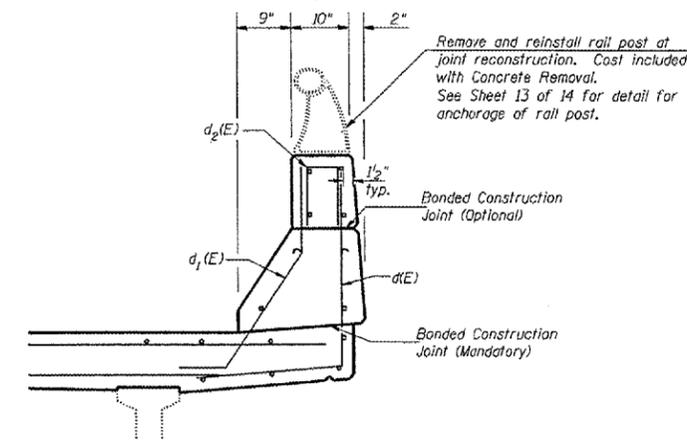
SN 057-0129



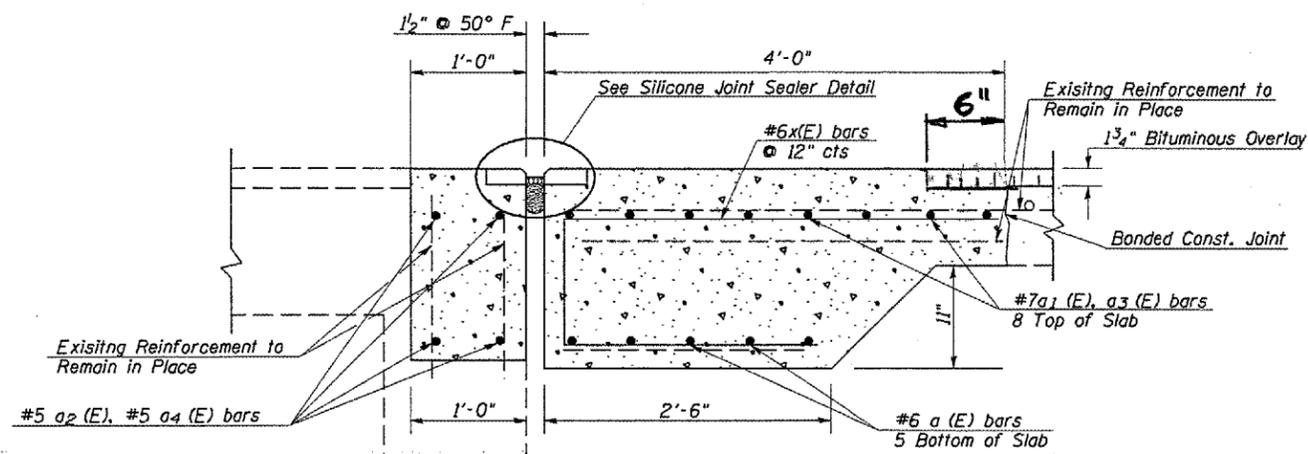
* Varies from 1'-3 3/8" to 1'-7 1/2"

Note: Removal of Existing Neoprene Expansion Joint is included in the cost of Concrete Removal

EXISTING SECTION AT WEST ABUTMENT

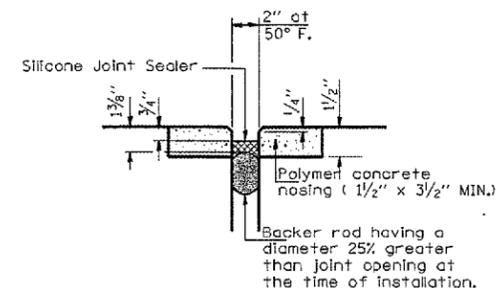


SECTION THRU PARAPET

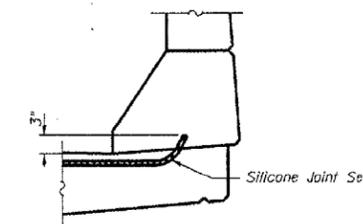


PROPOSED SECTION AT WEST ABUTMENT

New Concrete



SILICONE JOINT SEALER DETAIL



TYPICAL END OF SEAL TREATMENT AT EXPANSION JOINT

BILL OF MATERIAL

Item	Unit	TOTAL
Concrete Removal	Cu. Yd.	11.85
Concrete Superstructure	Cu. Yd.	11.85
Polymer Concrete	Cu. Ft.	3.2
Silicone Joint Sealer, 1 1/2"	Foot	43

ILLINOIS DEPARTMENT OF TRANSPORTATION
 JOINT REPAIR AT WEST ABUTMENT
 F.A.I. ROUTE 74
 SECTION (57-21B&57-22B)&BDR
 MCLEAN COUNTY
 SN 057-0129

SCALE: NA
 DATE: 03/28/07
 DRAWN BY: RC
 CHECKED BY:

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	MCLEAN	41	31

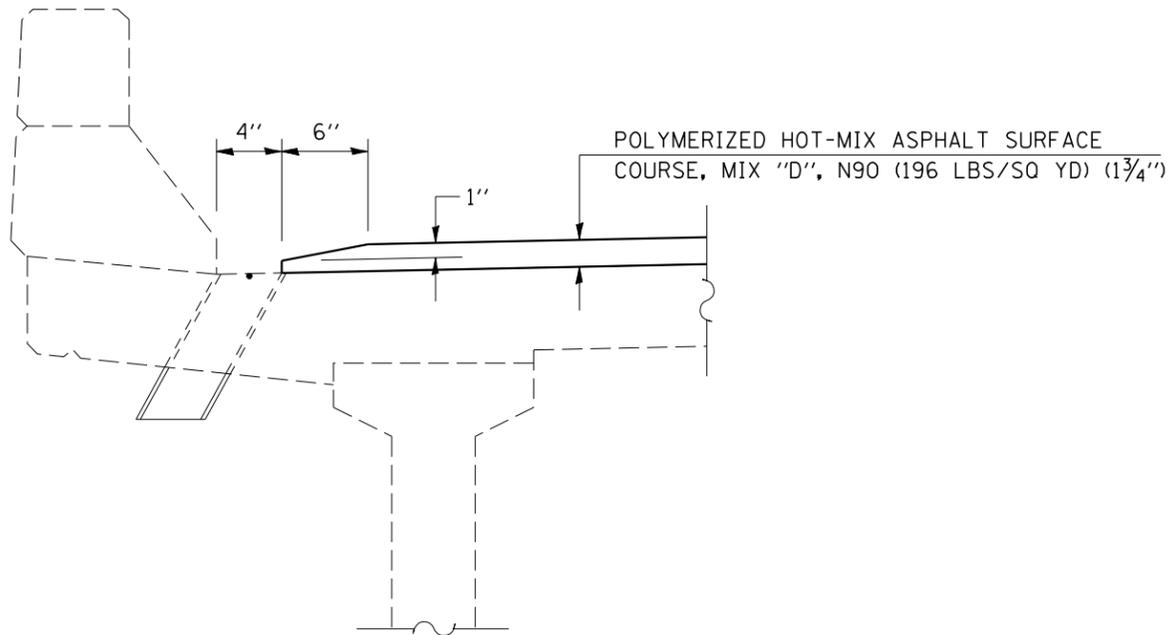
* (57-21B&57-22B)&BDR

SHEET 11 OF 14

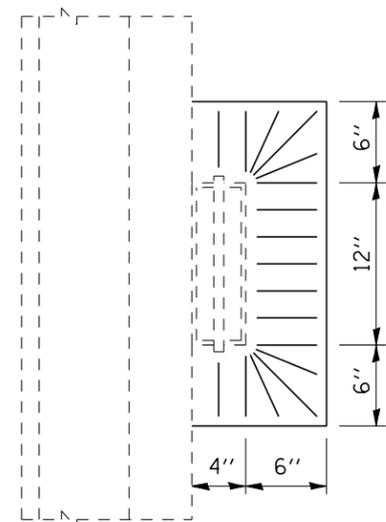
DECK DRAIN REPAIR

SN 057-0129

DETAIL OF DRAIN AT CURB

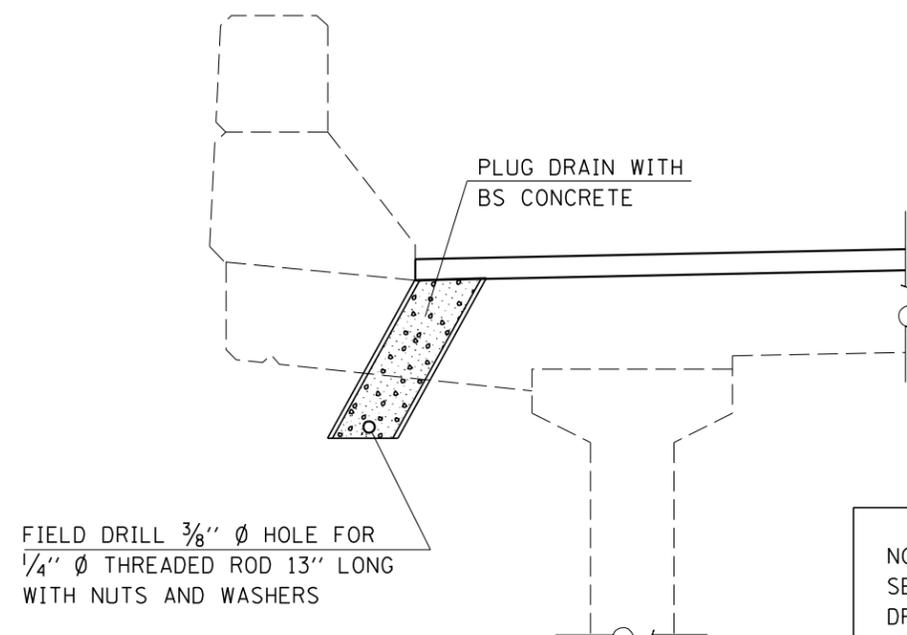


SECTION AT DRAIN



PLAN VIEW

PLUG EXISTING DECK DRAINS DETAIL



SECTION AT DRAIN

NOTE:
SEE SHEET 6 OF 14 FOR DRAINS TO BE PLUGGED

PLAN NOTE:
ON EXISTING DECK DRAINS WITH EXTENSIONS,
REMOVE BOTTOM PORTION OF EXISTING DRAIN.
(COST INCLUDED WITH PLUG EXISTING DECK DRAINS)

POLYMERIZED HMA AROUND DRAIN AT CURB SHALL
BE COMPACTED TO SATISFACTION OF ENGINEER.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DECK DRAIN REPAIR

F.A.I. ROUTE 74
SECTION (57-21B&57-22B)&BDR
MCLEAN COUNTY
SN 057-0129

SCALE: NA
DATE: 03/22/07

DRAWN BY: JRP
CHECKED BY:

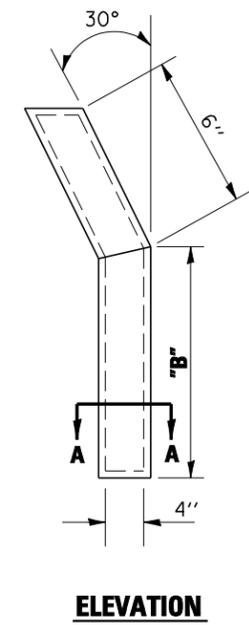
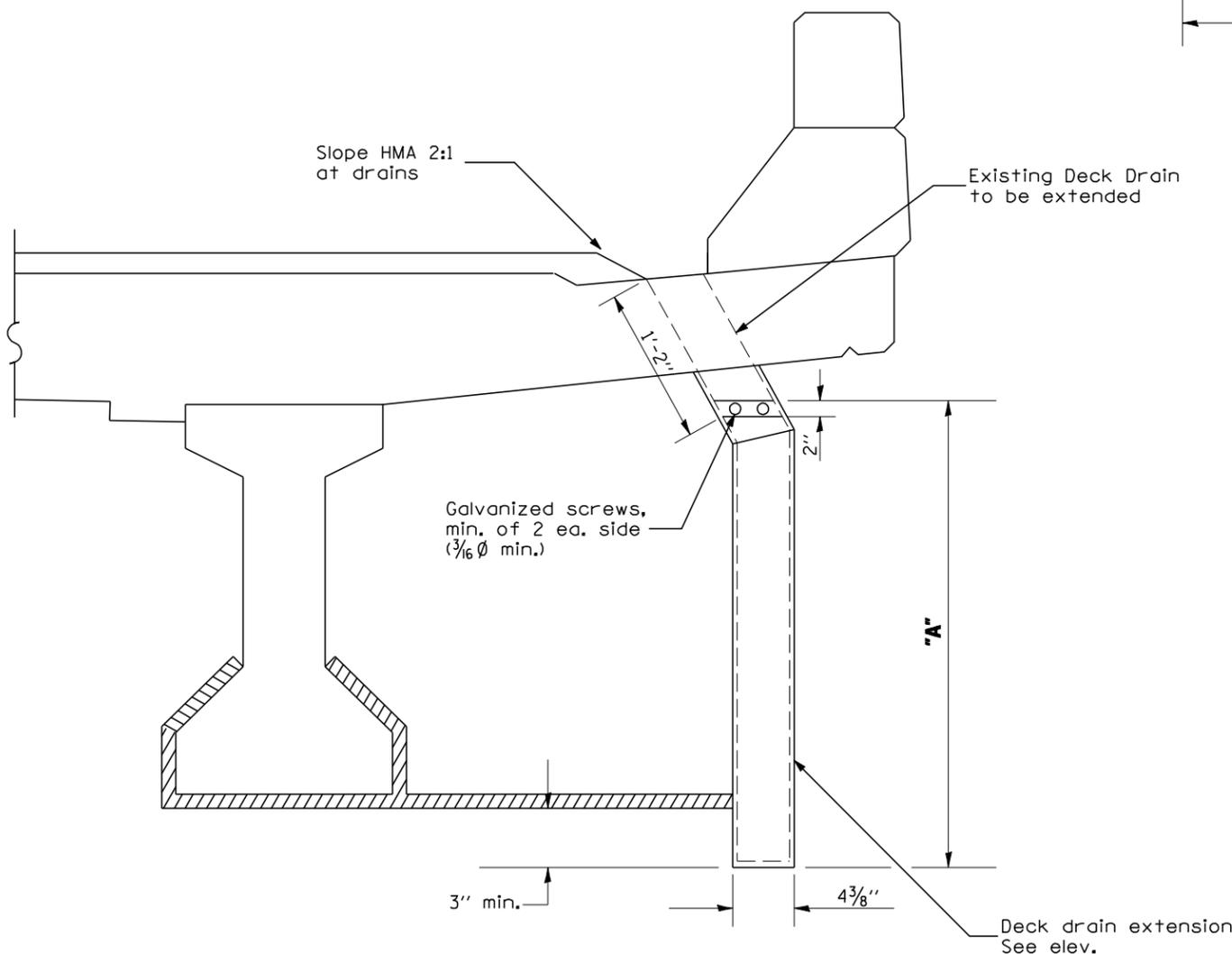
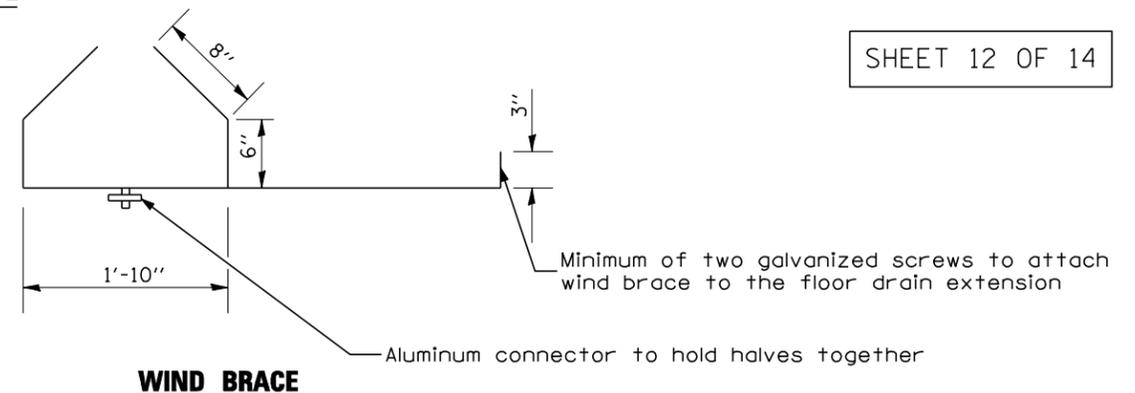
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	MCLEAN	41	32

* (57-21B&57-22B)&BDR

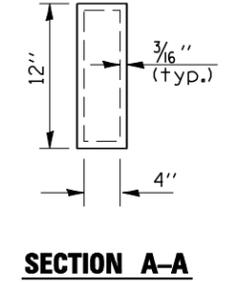
SHEET 12 OF 14

FLOOR DRAIN EXTENSION

SN 057-0129



FABRICATION:
 Aluminum sheets welded
 ASTM: B209 alloy 6061-T6
 or aluminum extrusions
 ASTM B221 alloy 60621-T6
 (inside dimensions or shown)



NOTE:
 SEE SHEET 6 OF 14 FOR
 DRAINS TO BE EXTENDED.

WIND BRACE ($\frac{1}{2}$ " x 2" bar stock)

SECTION AT DRAINS TO BE EXTENDED

DIMENSION	
"A"	3'-6"
"B"	3'-1"
TOTAL DRAINS	24.0

PLOT DATE = 8/16/2007
 FILE NAME = c:\projects\5901187 (c81\70641cover.dgn
 PLOT SCALE = 1/8"=1'-0" / IN.
 USER NAME = collierb

ILLINOIS DEPARTMENT OF TRANSPORTATION
FLOOR DRAIN EXTENSION
 F.A.I. ROUTE 74
 SECTION (57-21B&57-22B)&BDR
 MCLEAN COUNTY
 S.N. 057-0129
 SCALE: NA DRAWN BY: RC/JP
 DATE: 03/26/07 CHECKED BY:

BAR SPLICER ASSEMBLY DETAILS

SN 057-0129

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.

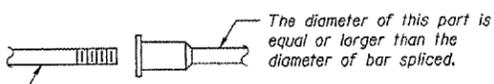
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$
- ② Minimum *Pull-out Strength (Tension in kips) = $0.66 \times f_y \times A_t$

Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_t = Tensile stress area of lapped reinforcement bars.
 * = 28 day concrete

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

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

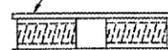


ROLLED THREAD DOWEL BAR



** ONE PIECE

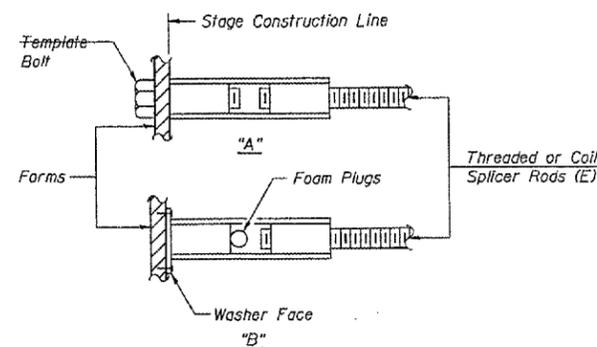
Wire Connector



WELDED SECTIONS

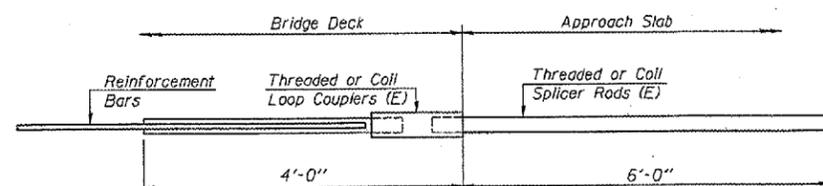
BAR SPLICER ASSEMBLY ALTERNATIVES

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



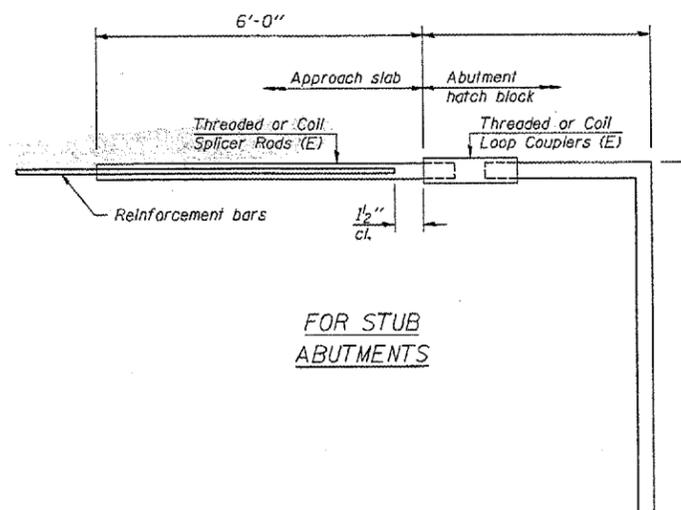
INSTALLATION AND SETTING METHODS

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



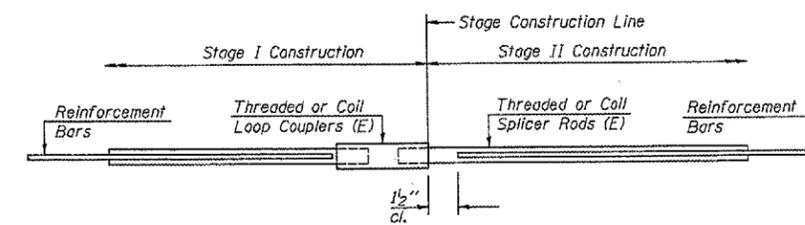
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

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



FOR STUB ABUTMENTS

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



STANDARD

Bar Size	No. Assemblies Required	Location
#5	8	ABUTMENT
#7	16	ABUTMENT

ILLINOIS DEPARTMENT OF TRANSPORTATION
 BAR SPLICER ASSEMBLY DETAILS
 F.A.I. ROUTE 74
 SECTION (57-21B&57-22B)&BDR
 McLEAN COUNTY
 S.N. 057-0129

SCALE: NA
 DATE: 11/01/06

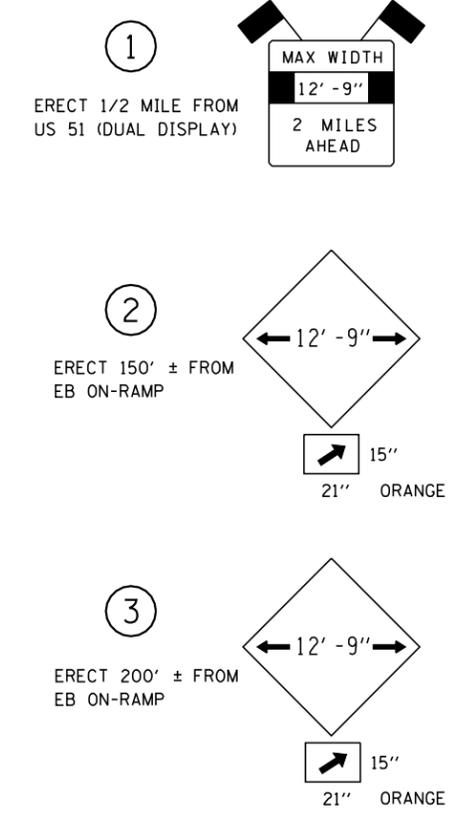
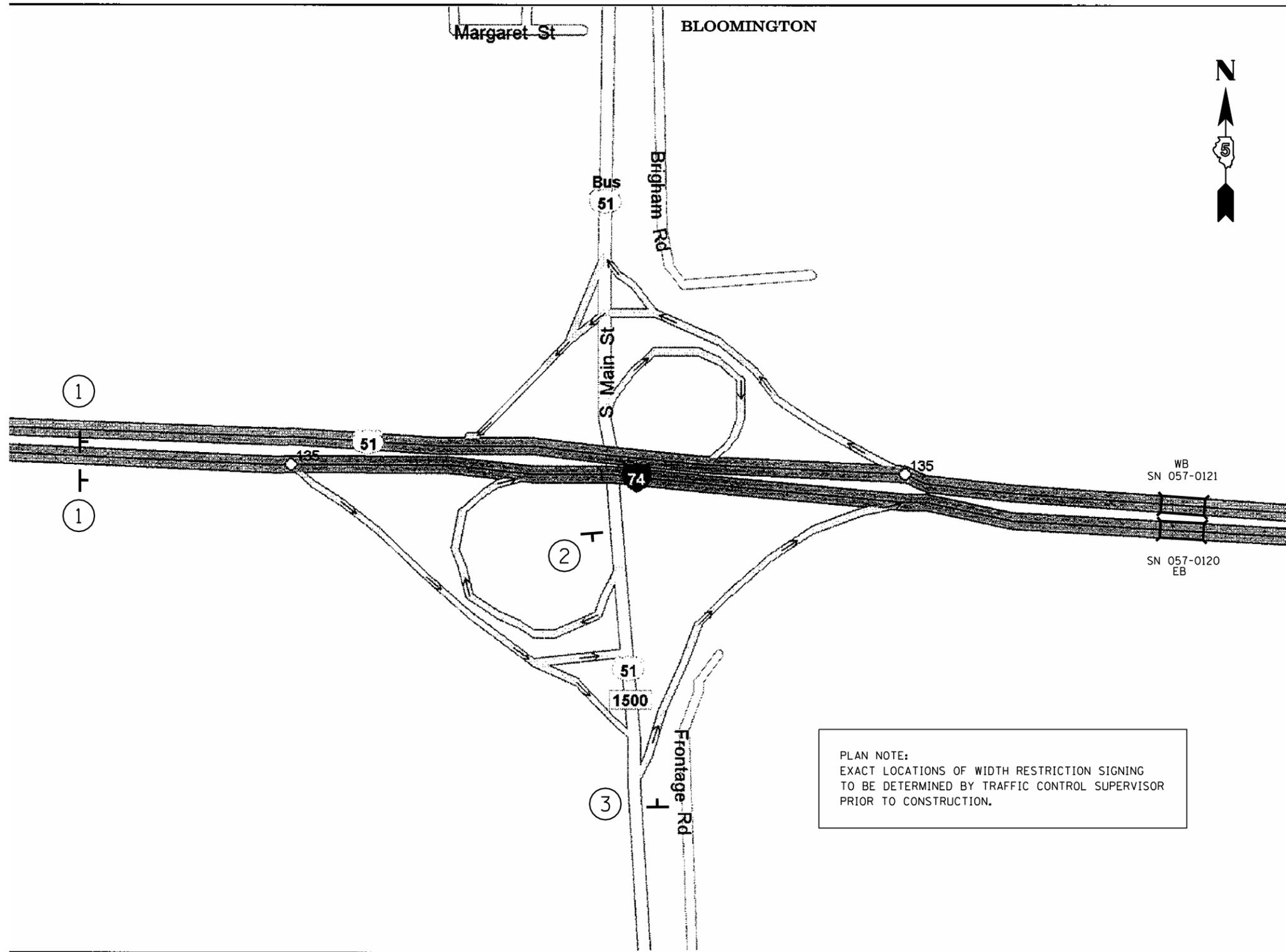
DRAWN BY: BO/JP
 CHECKED BY:

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	MCLEAN	41	35

* (57-21B&57-22B)&BDR

SHEET 1 OF 4

WIDTH RESTRICTION SIGNING DETAIL STAGE I ONLY



PLAN NOTE:
EXACT LOCATIONS OF WIDTH RESTRICTION SIGNING
TO BE DETERMINED BY TRAFFIC CONTROL SUPERVISOR
PRIOR TO CONSTRUCTION.



ILLINOIS DEPARTMENT OF TRANSPORTATION
WIDTH RESTRICTION SIGNING DETAIL
 F.A.I. ROUTE 74
 SECTION (57-21B&57-22B)&BDR
 MCLEAN COUNTY
 SCALE: NA DRAWN BY: JRP
 DATE: 03/27/07 CHECKED BY:

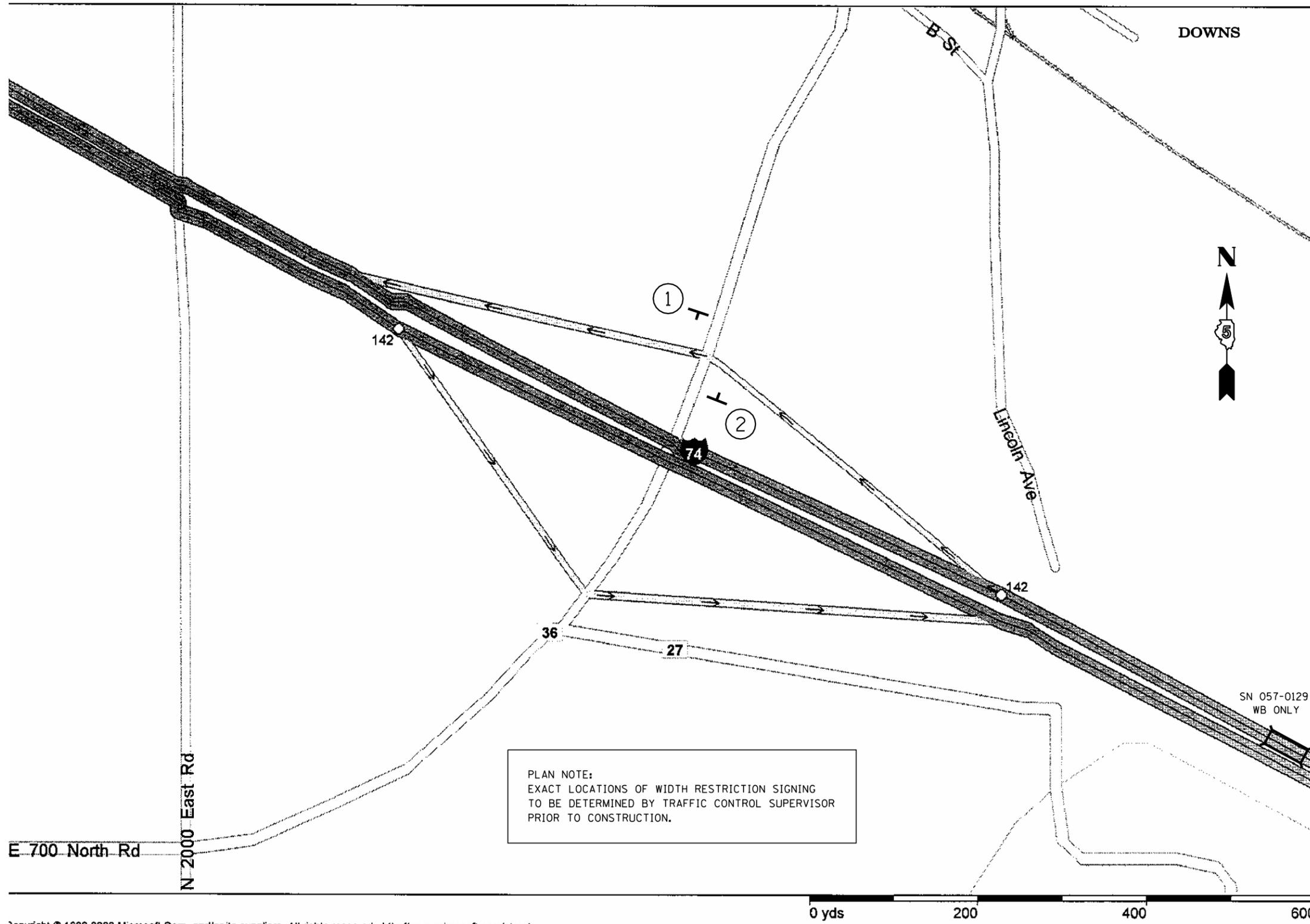
PLOT DATE : 8/16/2007
 FILE NAME : c:\projects\70641\70641cover.dgn
 PLOT SCALE : 1/8"=1'-0" / IN.
 USER NAME : collierb

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	MCLEAN	41	36

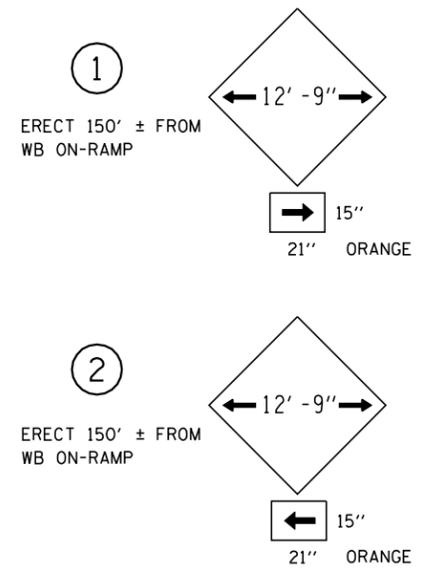
* (57-21B&57-22B)&BDR

SHEET 2 OF 4

WIDTH RESTRICTION SIGNING DETAIL STAGE I ONLY



PLAN NOTE:
EXACT LOCATIONS OF WIDTH RESTRICTION SIGNING
TO BE DETERMINED BY TRAFFIC CONTROL SUPERVISOR
PRIOR TO CONSTRUCTION.



PLOT DATE = 8/16/2007
FILE NAME = c:\projects\70641\70641cover.dgn
PLOT SCALE = 1/8\" = 1' / IN.
USER NAME = collierb

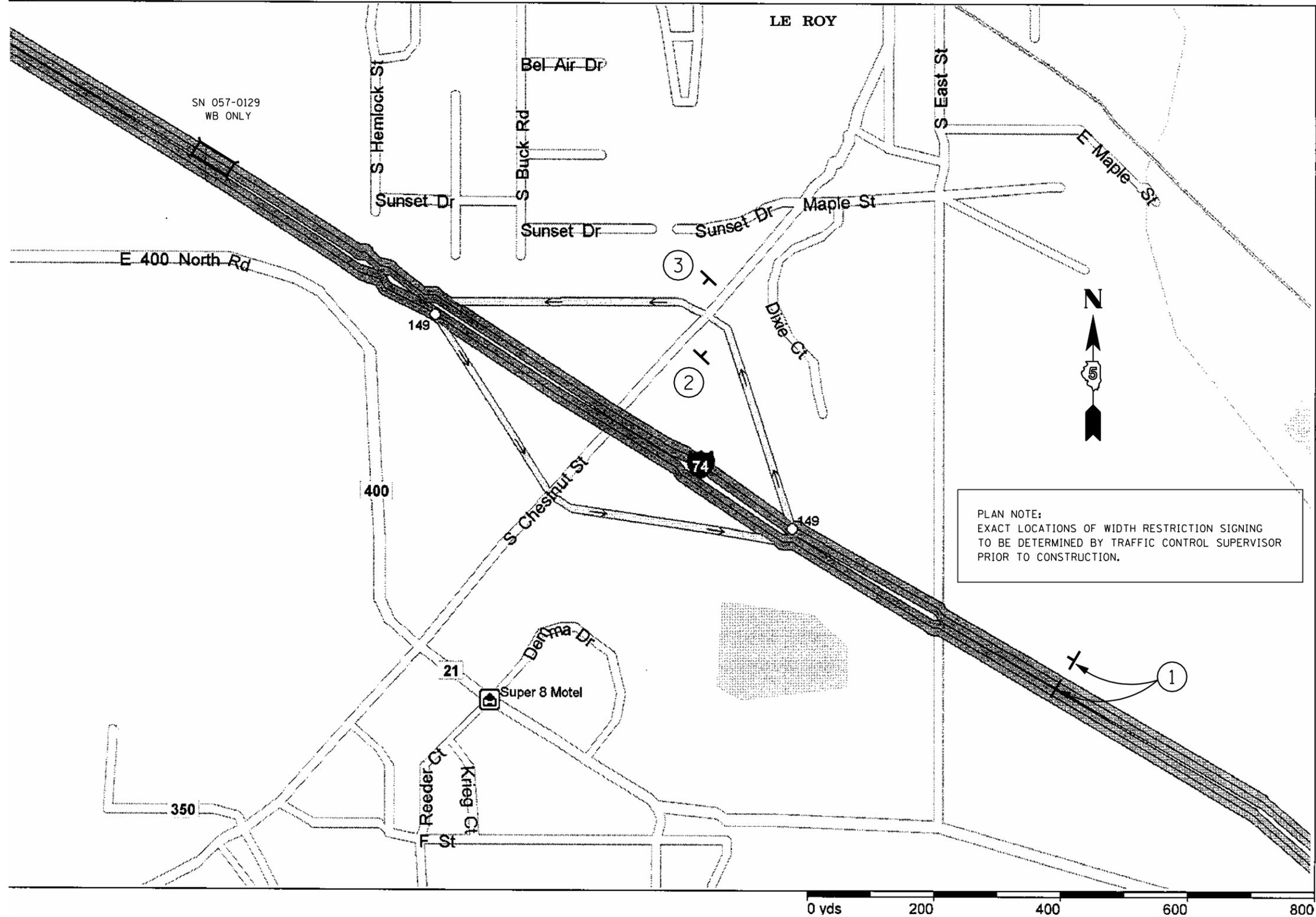
ILLINOIS DEPARTMENT OF TRANSPORTATION
WIDTH RESTRICTION SIGNING DETAIL
F.A.I. ROUTE 74
SECTION (57-21B&57-22B)&BDR
MCLEAN COUNTY
SCALE: NA
DATE: 03/27/07
DRAWN BY: JRP
CHECKED BY:

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	MCLEAN	41	37

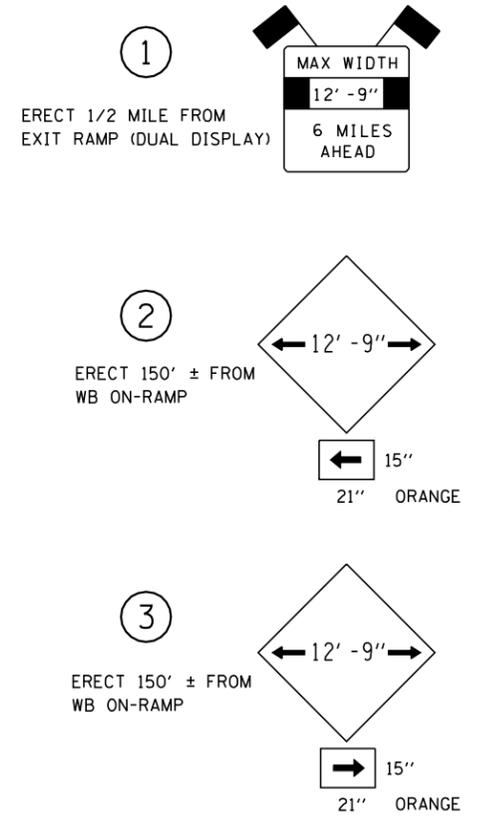
* (57-21B&57-22B)&BDR

SHEET 3 OF 4

WIDTH RESTRICTION SIGNING DETAIL STAGE I ONLY



PLAN NOTE:
EXACT LOCATIONS OF WIDTH RESTRICTION SIGNING TO BE DETERMINED BY TRAFFIC CONTROL SUPERVISOR PRIOR TO CONSTRUCTION.



①

ERECT 1/2 MILE FROM EXIT RAMP (DUAL DISPLAY)

②

ERECT 150' ± FROM WB ON-RAMP

③

ERECT 150' ± FROM WB ON-RAMP

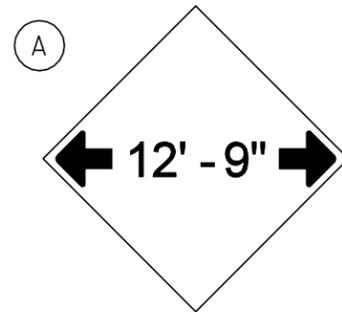
PLOT DATE : 8/16/2007
 FILE NAME : c:\projects\70641cover.dgn
 PLOT SCALE : 1/8"=1'-0"
 USER NAME : collierb

ILLINOIS DEPARTMENT OF TRANSPORTATION
WIDTH RESTRICTION SIGNING DETAIL
 F.A.I. ROUTE 74
 SECTION (57-21B&57-22B)&BDR
 MCLEAN COUNTY
 SCALE: NA
 DATE: 03/27/07
 DRAWN BY: JRP
 CHECKED BY:

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	MCLEAN	41	38

* (57-21B&57-22B)&BDR

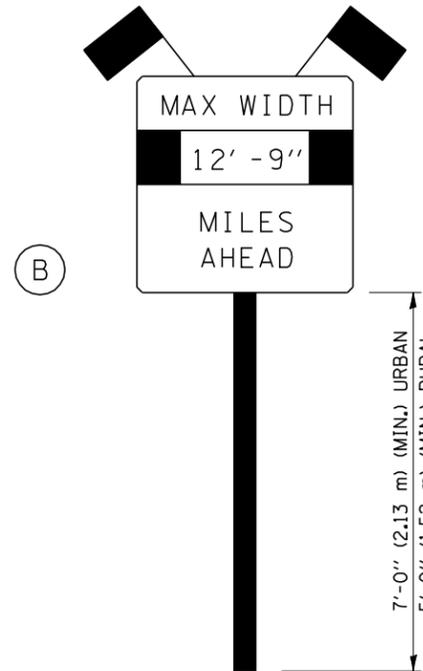
SHEET 4 OF 4



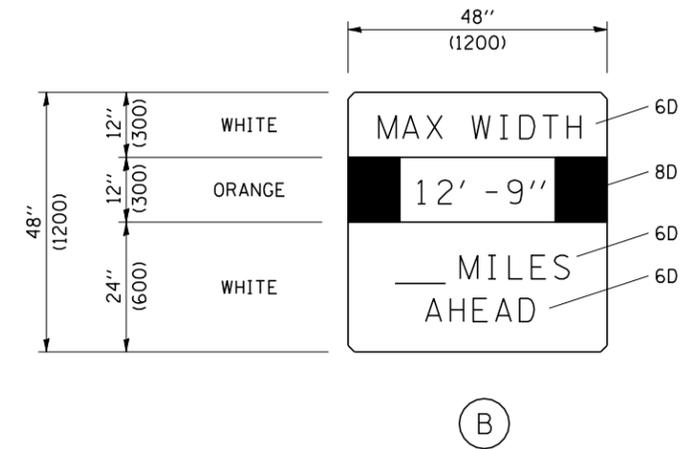
W12-2(0)-48"x48"(1200x1200)

SIGN (A) 2 SIGNS - W12-2(0)-48"x48"(1200x1200) ARE TO BE PLACED AT EACH END OF THE REPAIR IN EACH DIRECTION ALONG ROUTE *.

SIGN (B) 2 SIGNS - (SIGN PANEL, TYPE II) AS SHOWN ARE TO BE PLACED APPROXIMATELY * MILES EACH SIDE OF THE PROJECT ON ROUTE *.



SIGN PANEL, TYPE II



* TO BE DETERMINED BY TRAFFIC CONTROL SUPERVISOR PRIOR TO CONSTRUCTION.

GENERAL NOTES

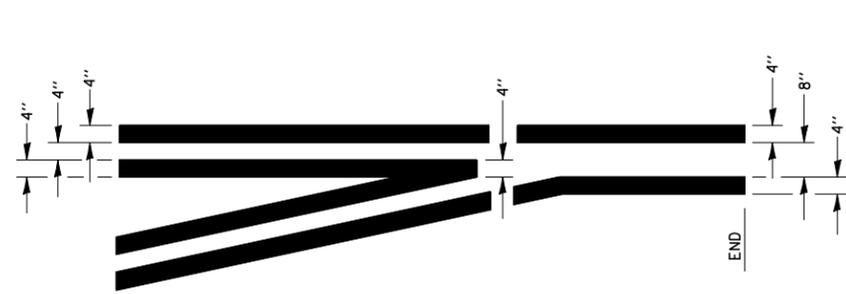
1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
2. ALL (B) SIGNS SHALL HAVE FLAGS INSTALLED UNLESS OTHERWISE DIRECTED.
3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
4. ALL TRAFFIC CONTROL SHOWN ON THIS SHEET SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR WIDTH RESTRICTION SIGNING.
5. THE ILLINOIS DEPARTMENT OF TRANSPORTATION WILL SUPPLY ALL "ROUTE MARKER" SIGNS, IF APPLICABLE. THE CONTRACTOR SHALL NOTIFY THE DISTRICT BUREAU OF OPERATIONS A MINIMUM OF 10 WORKING DAYS PRIOR TO PLACEMENT OF WIDTH RESTRICTION SIGNING TO ENSURE AVAILABILITY OR FABRICATION OF THE "ROUTE MARKER" SIGNS.
6. ALL SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE DIRECTED.
7. ALL SIGNS SHOWN ORANGE (O) SHALL BE FLUORESCENT ORANGE.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

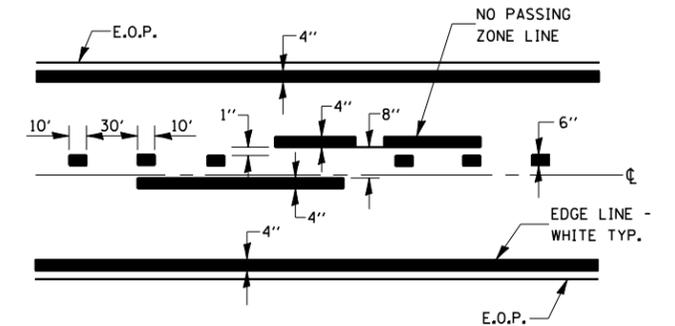
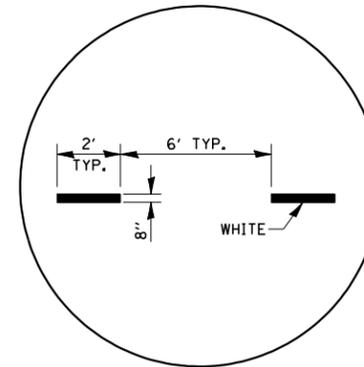
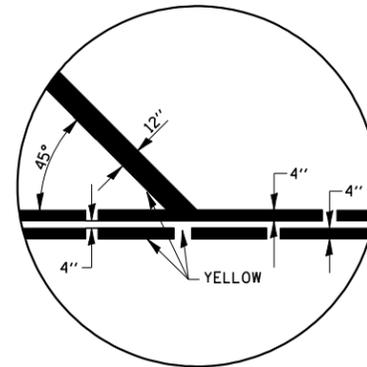
DATE	REVISIONS	NAME	ILLINOIS DEPARTMENT OF TRANSPORTATION
11/06	REPLACED DETAIL F-5.00	TJB	WIDTH RESTRICTION SIGNING
			DISTRICT 5 DETAIL NO. X7200201

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	MCLEAN	41	39

* (57-21B&57-22B)&BDR

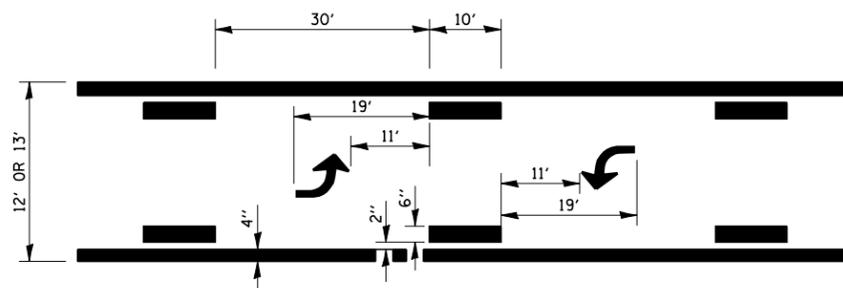


**TYPICAL APPLICATION
@ LEFT TURN LANES**

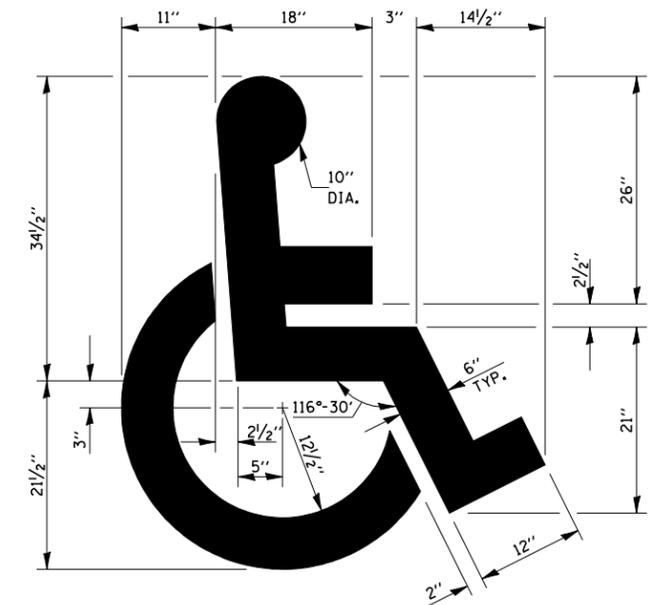
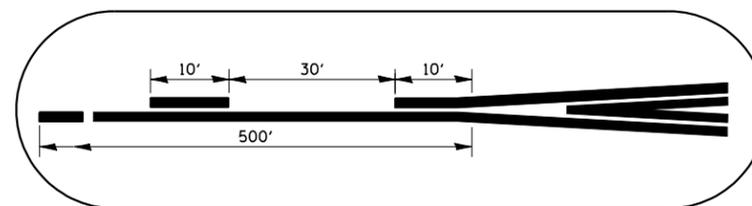
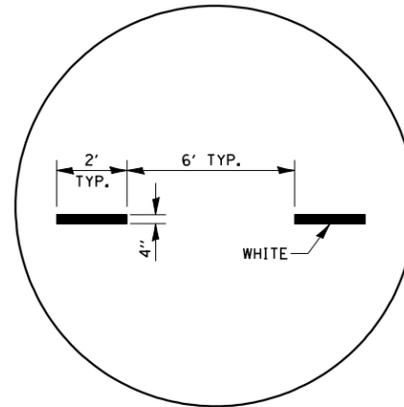


CENTERLIN & NO PASSING ZONE LINES - YELLOW
(SEE TYPICAL SECTIONS)

PAVEMENT MARKING



**TYPICAL APPLICATION @
BI-DIRECTIONAL TURN LANE**



**TYPICAL DETAIL FOR
PAINTING HANDICAP MARKINGS**

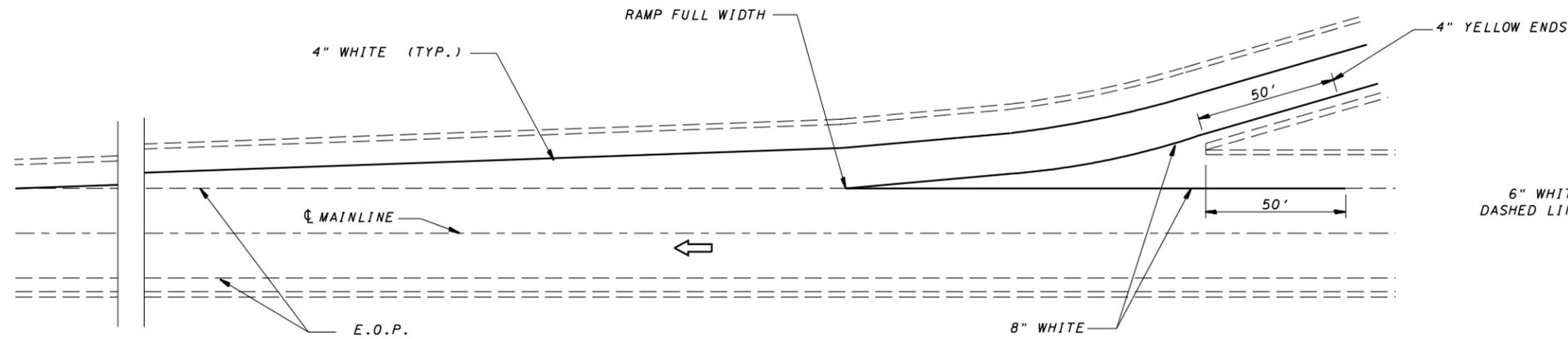
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DATE	REVISIONS	NAME	ILLINOIS DEPARTMENT OF TRANSPORTATION
11/06	CREATED FROM D4 DETAILS	TJB	PAVEMENT MARKING (MCLEAN COUNTY "SPOT" IMPROVEMENTS ONLY)
			DISTRICT 5 DETAIL NO. 7800CCC

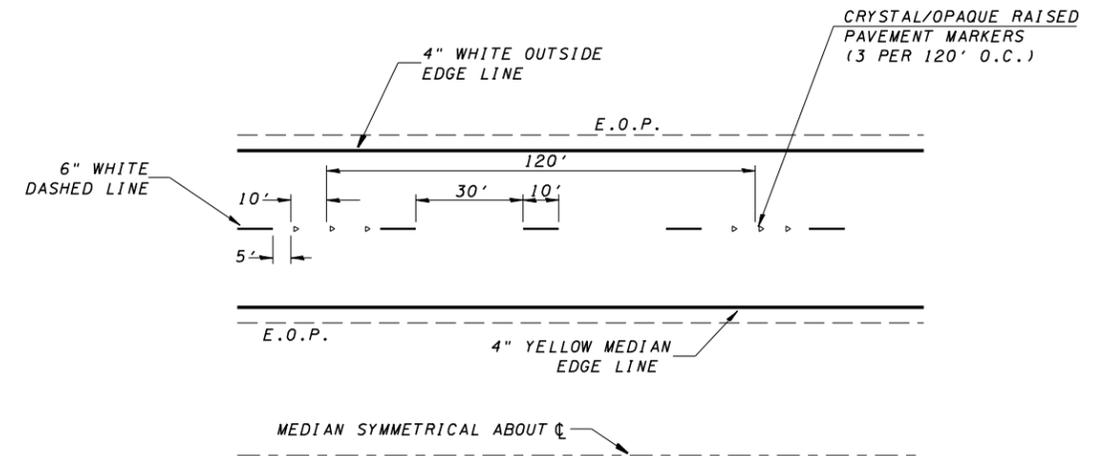
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FILE NAME = c:\projects\4501187 (68170641cover.dgn
PLOT SCALE = 1/8" = 1'-0" / IN.
USER NAME = collierb

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	MCLEAN	41	40

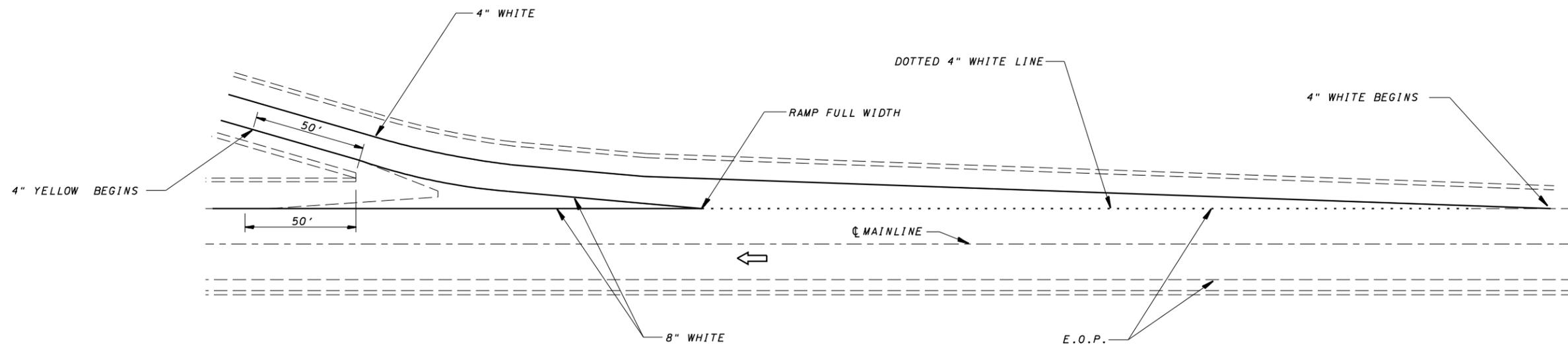
* (57-21B&57-22B)&BDR



TYPICAL PAVEMENT MARKING FOR ENTRANCE RAMP TERMINALS



TYPICAL PAVEMENT MARKINGS



TYPICAL PAVEMENT MARKINGS FOR EXIT RAMP TERMINALS

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DATE	REVISIONS	NAME
11/06	CREATED FROM D4 DETAILS	TJB

ILLINOIS DEPARTMENT OF TRANSPORTATION

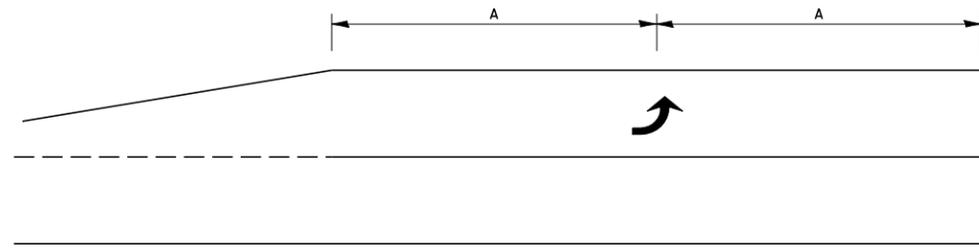
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(MCLEAN COUNTY "SPOT"
IMPROVEMENTS ONLY)**

DISTRICT 5 DETAIL NO. 7800CCC

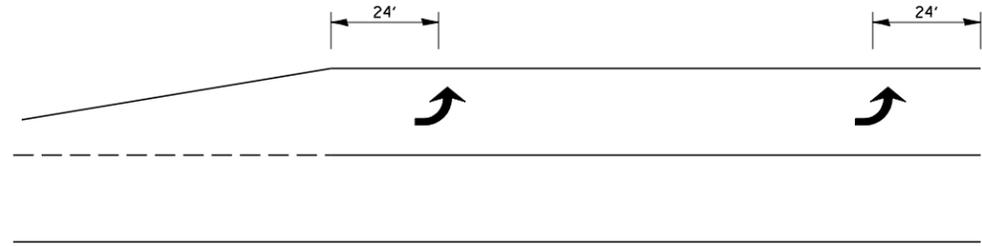
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	MCLEAN	41	41

* (57-21B&57-22B)&BDR

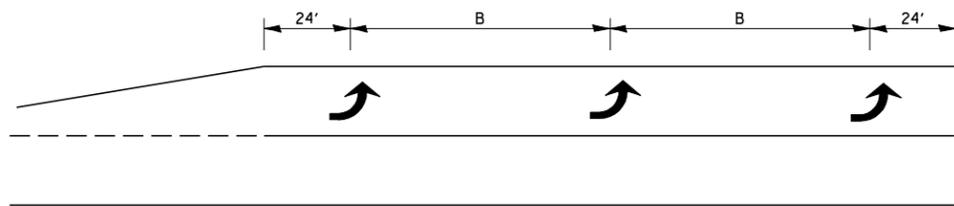


99' AND UNDER

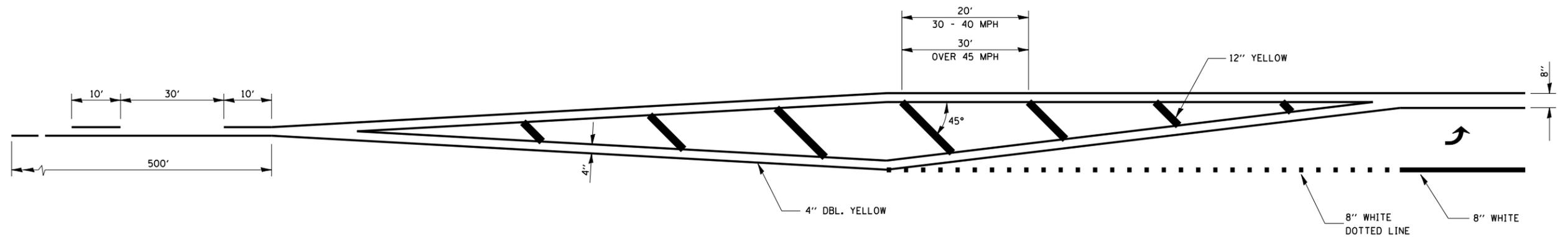


100' TO 149'

TYPICAL PLACEMENT OF ARROWS IN TURN LANES



150' AND LONGER



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DATE	REVISIONS	NAME	ILLINOIS DEPARTMENT OF TRANSPORTATION
11/06	CREATED FROM D4 DETAILS	TJB	PAVEMENT MARKING (MCLEAN COUNTY "SPOT" IMPROVEMENTS ONLY)

PLOT DATE = 8/16/2007
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