

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	VARIOUS	VARIOUS	42	1

*D-9 CONT. MAINT. FY 06-3

FOR INDEX OF SHEETS, SEE SHEET NO. 3

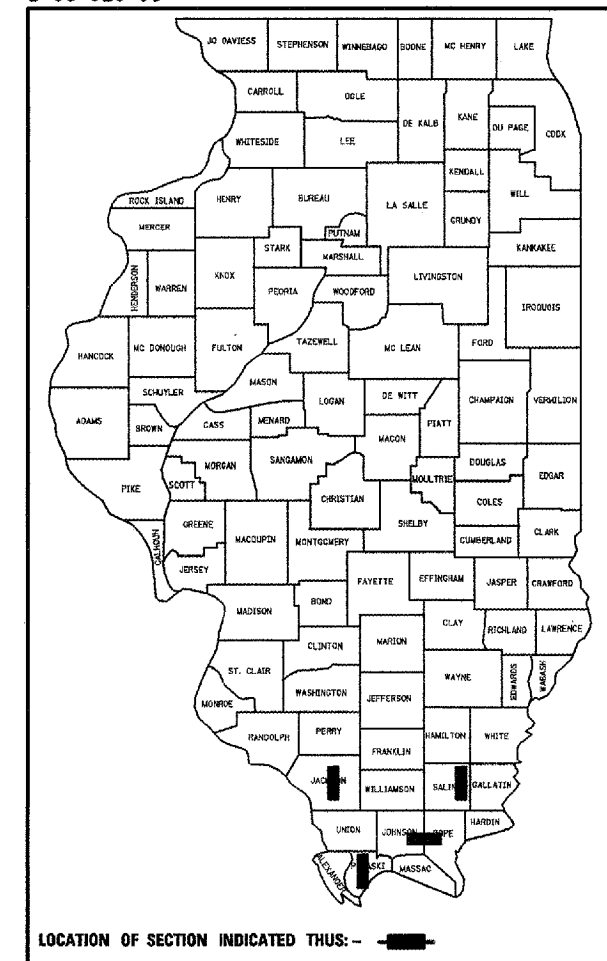
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

VARIOUS ROUTES
SECTION D-9 CONT. MAINT. FY 06-3

VARIOUS COUNTIES
C-99-035-05

D-99-029-05



LOCATION OF SECTION INDICATED THUS: —■—

OLD US 51 (FAS 2936)
LOCATION #1
TRAFFIC DATA
(2003) (2026)

PC=	1,050	1,315
SU=	150	190
MU=	50	65
ADT=	1,250	1,570

US 51 (FAP 322)
LOCATION #5
TRAFFIC DATA
(2003) (2026)

PC=	6,975	8,765
SU=	275	345
MU=	150	190
ADT=	7,400	9,300

OLD US 51 (FAS 1911)
LOCATION #2
TRAFFIC DATA
(2002) (2026)

PC=	800	1,010
SU=	90	115
MU=	10	15
ADT=	900	1,140

AIRPORT ROAD (FAU 9729)
LOCATION #6
TRAFFIC DATA
(2002) (2026)

PC=	900	1,145
SU=	40	50
MU=	10	15
ADT=	950	1,210

US 45 (FAP 332)
LOCATION #3
TRAFFIC DATA
(2003) (2026)

PC=	3,200	4,020
SU=	275	345
MU=	425	535
ADT=	3,900	4,900

IL 146 (FAP 885)
LOCATION #7
TRAFFIC DATA
(2003) (2026)

PC=	1,600	2,250
SU=	60	85
MU=	40	55
ADT=	1,700	2,390

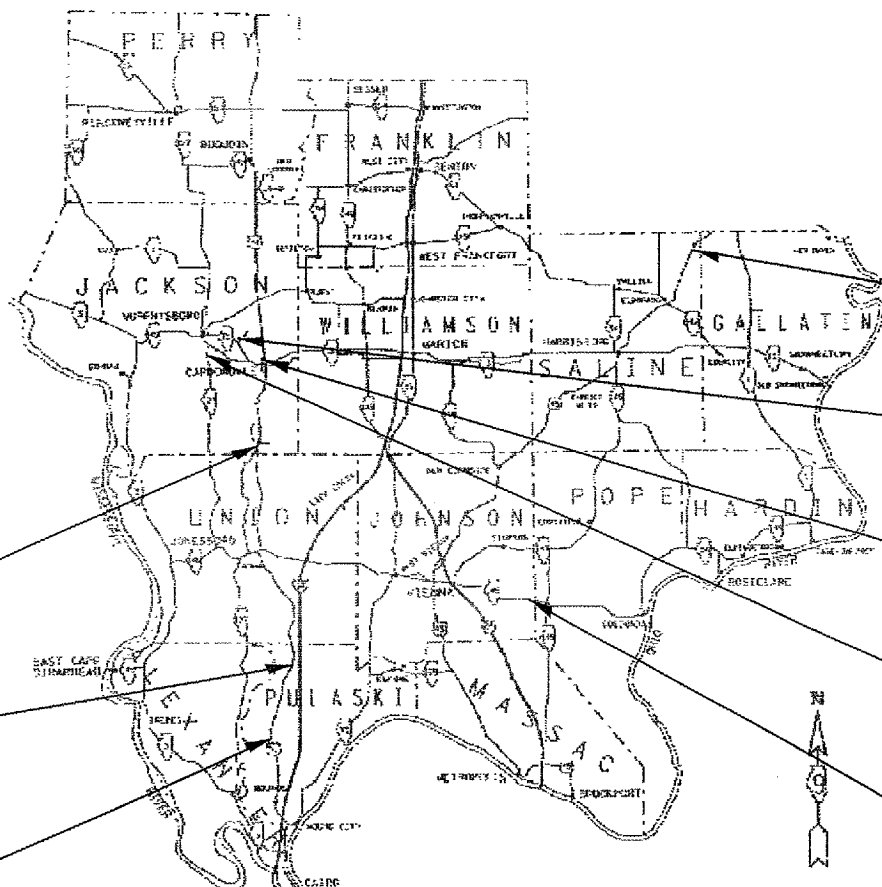
OLD US 51 (FAS 2936)
LOCATION #4
TRAFFIC DATA
(2003) (2026)

PC=	900	1,135
SU=	75	95
MU=	25	30
ADT=	1,000	1,260

IL 127 (FAS 1909)
LOCATION #8
TRAFFIC DATA
(2003) (2026)

PC=	1,900	2,680
SU=	160	225
MU=	40	55
ADT=	2,100	2,960

COUNTIES:	TOWNSHIPS:	LOCATION:
JACKSON	MAKANDA	2
	CARBONDALE	5
	MURPHYSBORO	6
	POMONA	8
JOHNSON	GRANTSBURG	7
POPE	WEBSTER	7
	COLUMBUS	7
PULASKI	ULLIN	1
	PULASKI	4
SALINE	RECTOR	3



LOCATION #3
US 45 (FAP 332)
Sta. 723+24 to Sta. 755+24
NET LENGTH: 1,040 FEET (0.20 MILES)
GROSS LENGTH: 3,200 FEET (0.61 MILES)

LOCATION #6
AIRPORT ROAD (FAU 9729)
Sta. 1+40 to Sta. 8+28
Sta. 18+00 to Sta. 39+46
NET LENGTH: 2,834 FEET (0.54 MILES)
GROSS LENGTH: 3,806 FEET (0.72 MILES)

LOCATION #5
US 51 (FAP 322)
Sta. 68+89 to Sta. 71+88
NET LENGTH: 299 FEET (0.06 MILES)
GROSS LENGTH: 299 FEET (0.06 MILES)

LOCATION #8
IL 127 (FAS 1909)
IL 127/Grammer Road Intersection

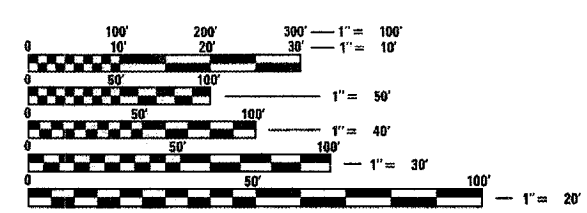
LOCATION #7
IL 146 (FAP 885)
Sta. 533+00 to Sta. 535+50 LT
Sta. 560+20 to Sta. 570+20 LT
Sta. 607+27 to Sta. 612+00 LT
Sta. 626+00 to Sta. 630+00 LT
Sta. 649+00 to Sta. 659+00 RT
Sta. 761+00 to Sta. 777+00 RT
Sta. 876+00 to Sta. 894+50 LT
NET LENGTH: 6,523 FEET (1.24 MILES)
GROSS LENGTH: 36,150 FEET (6.85 MILES)

LOCATION #2
OLD US 51 (FAP 1911)
Sta. 417+40 to Sta. 452+16.8 BK =
Sta. 452+97.5 AH to Sta. 471+42
NET LENGTH: 5,321.3 FEET (1.00 MILES)
GROSS LENGTH: 5,321.3 FEET (1.00 MILES)

LOCATION #1
OLD US 51 (FAP 2936)
Sta. 749+00 to Sta. 768+00
NET LENGTH: 1,700 FEET (0.32 MILES)
GROSS LENGTH: 1,700 FEET (0.32 MILES)

LOCATION #4
OLD US 51 (FAP 2936)
Sta. 980+86 to Sta. 1014+86
NET LENGTH: 3,400 FEET (0.64 MILES)
GROSS LENGTH: 3,400 FEET (0.64 MILES)

NET LENGTH OF PROJECT: 21,117.3 FEET (4.00 MILES)
GROSS LENGTH OF PROJECT: 53,876.3 FEET (10.20 MILES)



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

CONTRACT NO. 98924

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Nov 1 2005

Mary C. Lemie
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 9, 2005

Mike Hene / (R)
ENGINEER OF DESIGN AND ENVIRONMENT

December 9, 2005

Eric Hain / (R)
DEPUTY DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

SIGNATURE SHEET

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Nov 1 2005
DATE

Mary C. Kamel
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Prepared By: Joe Zdan Lewicz
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Examined By: James Lewis Emery
DISTRICT LAND ACQUISITION ENGINEER

Examined By: Carrie Nelson
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: Jim Smother
DISTRICT OPERATIONS ENGINEER

Examined By: Joseph Lynn
DISTRICT CONSTRUCTION ENGINEER

Examined By: Bruce Bales
DISTRICT MATERIALS ENGINEER

Examined By: Danny Clayton
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: Danny Clayton
ASSISTANT REGIONAL ENGINEER

INDEX OF SHEETS

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4	MIX DESIGN
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9-12	LOCATION MAPS
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15	PAVEMENT MARKING SCHEDULE
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701101-01	781001-02
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701311-02	000001-04
701336-04	001001

GENERAL NOTES

VARIOUS ROUTES
D-9 CONT. MAINT. FY 06-3
VARIOUS CO.
CONTRACT #98924
SHEET 3 OF 42

THE THICKNESS OF BITUMINOUS MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.

FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL BITUMINOUS CONCRETE	2.016 TONS/CU.YD.
ALL AGGREGATE	2.05 TONS/CU.YD.
BITUMINOUS MATERIALS:	
ON PAVEMENT	0.09 GAL./SQ.YD.
ON AGGREGATE	0.32 GAL./SQ. YD.
AGGREGATE (PRIME COAT)	0.0015 TONS/SQ.YD.

UNLESS OTHERWISE DIRECTED BY THE ENGINEER, BITUMINOUS RESURFACING SHALL BE PLACED IN A SEQUENCE THAT WILL MINIMIZE THE TIME THE CENTERLINE EDGE IS EXPOSED TO TRAFFIC. WHEN AT THE END OF A DAY'S OPERATION THE EXPOSED CENTERLINE EDGE IS GREATER THAN 2,000 FT., THE CONTRACTOR SHALL BE REQUIRED TO PAVE IN THE ADJACENT LANE ON THE FOLLOWING WORK DAY. PRIOR TO WINTER SHUTDOWN, RESURFACING ON ADJACENT LANES IS TO BE BROUGHT UP TO THE SAME ELEVATION.

THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION EACH FOR THE BITUMINOUS SURFACE REMOVAL AND BITUMINOUS SURFACE COURSE.

THE CONTRACTOR SHALL STAMP STATIONING IN THE BITUMINOUS SURFACE AT 300 FT. INTERVALS ALTERNATING SIDES ON THE OUTSIDE EDGE OF PAVEMENT AND AS DIRECTED BY THE ENGINEER. THE STATION SYMBOL STAMPS USED SHALL BE FURNISHED BY THE CONTRACTOR. THEY SHALL BE 5 1/2 IN. TALL OF A DESIGN APPROVED BY THE ENGINEER, AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

THE LOCATION OF THE DETECTOR LOOPS, AS SHOWN ON THE PLANS, MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER OF TRAFFIC OPERATIONS.

DETECTOR LOOP WIRE SHALL BE PLACED IN THE EXISTING CONDUIT FROM THE LOOP SAWCUT TO THE SPLICE POINT AT THE EXISTING HANDHOLE.

DETECTOR LOOPS SHALL BE MEASURED FOR PAYMENT ALONG THE SAWED SLOT IN THE PAVEMENT. DETECTOR LOOP WIRE PLACED IN THE CONDUIT SHALL BE INCLUDED IN THIS COST AND SHALL NOT BE MEASURED.

RECLAIMED ASPHALT PAVEMENT (RAP) WILL NOT BE ALLOWED FOR USE AS AGGREGATE IN AGGREGATE SHOULDERS TYPE "B".

EXISTING SLOPES AT LOCATION #1 NEED HEAVY DISKING TO THE SATISFACTION OF THE ENGINEER BEFORE PLACING FILL.

QUANTITIES SHOWN IN THE PLANS FOR STRIP REFLECTIVE CRACK CONTROL ARE ESTIMATES FOR LOCATION #7 ONLY.

QUANTITIES SHOWN IN THE PLANS FOR PATCHING ARE ESTIMATES. THE ACTUAL AMOUNT OF PATCHING REQUIRED SHALL BE DETERMINED BY THE ENGINEER.

PRIOR TO PLACEMENT OF THE FINAL PAVEMENT MARKINGS THE RESIDENT ENGINEER SHOULD CONTACT THE BUREAU OF OPERATIONS AND ARRANGE FOR INSPECTION AND APPROVAL OF THE PAVEMENT MARKING LAYOUT.

THERE ARE NO AVAILABLE WASTE SITES WITHIN PROJECT LIMITS.

COMMITMENTS

A COMMITMENT HAS BEEN MADE THAT THE RESIDENT ENGINEER WILL REPORT THE QUANTITIES AND COSTS OF LOCATION #8 TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION, DISTRICT #9, SAFETY AND CLAIMS MANAGER. THESE ARE THE COMMITMENTS AS OF JULY 27, 2005.

MIX DESIGN

Location(s):	Bituminous Surface Course (Location #5)
Mixture Use(s)	Bituminous Concrete Surface Course, Superpave, Mix D, N90
AC/PG	SBS PG76-22
RAP% (Max):	0
Design Air Voids:	4.0%, 105 Gyration Superpave Design
Mixture Composition: (Gradation Mixture)	IL-9.5 mm or IL 12.5 mm
Friction Aggregate:	D Surface

Location(s):	Bituminous Surface Course (all locations except #5)
Mixture Use(s)	Bituminous Concrete Surface Course, Superpave, Mix C, N90
AC/PG	PG64-22
RAP% (Max):	10
Design Air Voids:	4.0%, 90 Gyration Superpave Design
Mixture Composition: (Gradation Mixture)	IL-9.5 mm or IL 12.5 mm
Friction Aggregate:	C Surface

Location(s):	Bituminous Binder Course, Base Course Widening, and Pavement Patching
Mixture Use(s)	Bituminous Concrete Binder Course, Superpave, Mix B, N90, IL-19.0
AC/PG	PG64-22
RAP% (Max):	10
Design Air Voids:	4.0%, 90 Gyration Superpave Design
Mixture Composition: (Gradation Mixture)	IL-19.0 mm
Friction Aggregate:	None

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM DESCRIPTION	UNIT	VARIOUS COUNTIES 1000 TOTAL QUANTITY	LOC #1	LOC #2	LOC #3	LOC #4	LOC #5	LOC #6	LOC #7		LOC #8
				PULASKI CO.	JACKSON CO.	SALINE CO.	PULASKI CO.	JACKSON CO.	JACKSON CO.	JOHNSON CO.	POPE CO.	JACKSON CO.
				RURAL 100 % STATE	RURAL 100 % STATE	RURAL 100 % STATE	RURAL 100 % STATE	RURAL 100 % STATE	RURAL 100 % STATE	RURAL 100 % STATE	RURAL 100 % STATE	RURAL 100 % STATE
	CONSTRUCTION TYPE CODE											
20200100	EARTH EXCAVATION	CU YD	533			155	378					
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	6	6								
20400800	FURNISHED EXCAVATION	CU YD	371	371								
25000350	SEEDING, CLASS 7	ACRE	0.6	0.6								
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	97	97								
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	73	73								
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	73	73								
25000700	AGRICULTURAL GROUND LIMESTONE	TON	2	2								
25001010	SEEDING, CLASS 2 MODIFIED	ACRE	0.6	0.6								
25100115	MULCH, METHOD 2	ACRE	0.6	0.6								
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	182	182								
28000400	PERIMETER EROSION BARRIER	FOOT	2,600	2,600								
35101100	AGGREGATE BASE COURSE, TYPE A, 12 INCH	SQ YD	463			463						
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GAL	3,291	357	1,111		714	150	567	75	317	
40600300	AGGREGATE (PRIME COAT)	TON	57	6	19		12	3	10	2	5	
40600990	TEMPORARY RAMP	SQ YD	238	24	30		24	56	48	16	40	
44000006	BITUMINOUS SURFACE REMOVAL - 1 1/2"	SQ YD	40,366	4,156	12,343		7,934	1,662	6,298	1,528	6,445	

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM DESCRIPTION	UNIT	VARIOUS COUNTIES 1000 TOTAL QUANTITY	LOC #1	LOC #2	LOC #3	LOC #4	LOC #5	LOC #6	LOC #7		LOC #8
				PULASKI CO.	JACKSON CO.	SALINE CO.	PULASKI CO.	JACKSON CO.	JACKSON CO.	JOHNSON CO.	POPE CO.	JACKSON CO.
				RURAL 100 % STATE	RURAL 100 % STATE	RURAL 100 % STATE	RURAL 100 % STATE	RURAL 100 % STATE	RURAL 100 % STATE	RURAL 100 % STATE	RURAL 100 % STATE	RURAL 100 % STATE
	CONSTRUCTION TYPE CODE											
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	0.1	0.2	0.1	0.2		0.1	0.1	0.2	
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1	0.1	0.2	0.1	0.2		0.1	0.1	0.2	
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1					1				
70300100	SHORT TERM PAVEMENT MARKING	FOOT	2,741	340	1065		680	89	567			
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	98.9					98.9				
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	47,017	3,825	20,183	1,020	7,650	269	7,547	1,250	5,273	
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	100					100				
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	50					50				
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	16,838	1,389	7,083	340	2,777	369	2,705	417	1,758	
*78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	98.9					98.9				
*78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	269					269				
*78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	100					100				
*78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	50					50				
*78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	46,748	3,825	20,183	1,020	7,650		7,547	1,250	5,273	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	131	22	67		42					
*88600100	DETECTOR LOOP, TYPE I	FOOT	60					60				

* SPECIALTY ITEMS

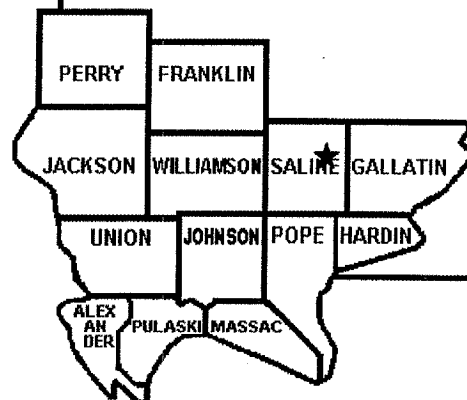
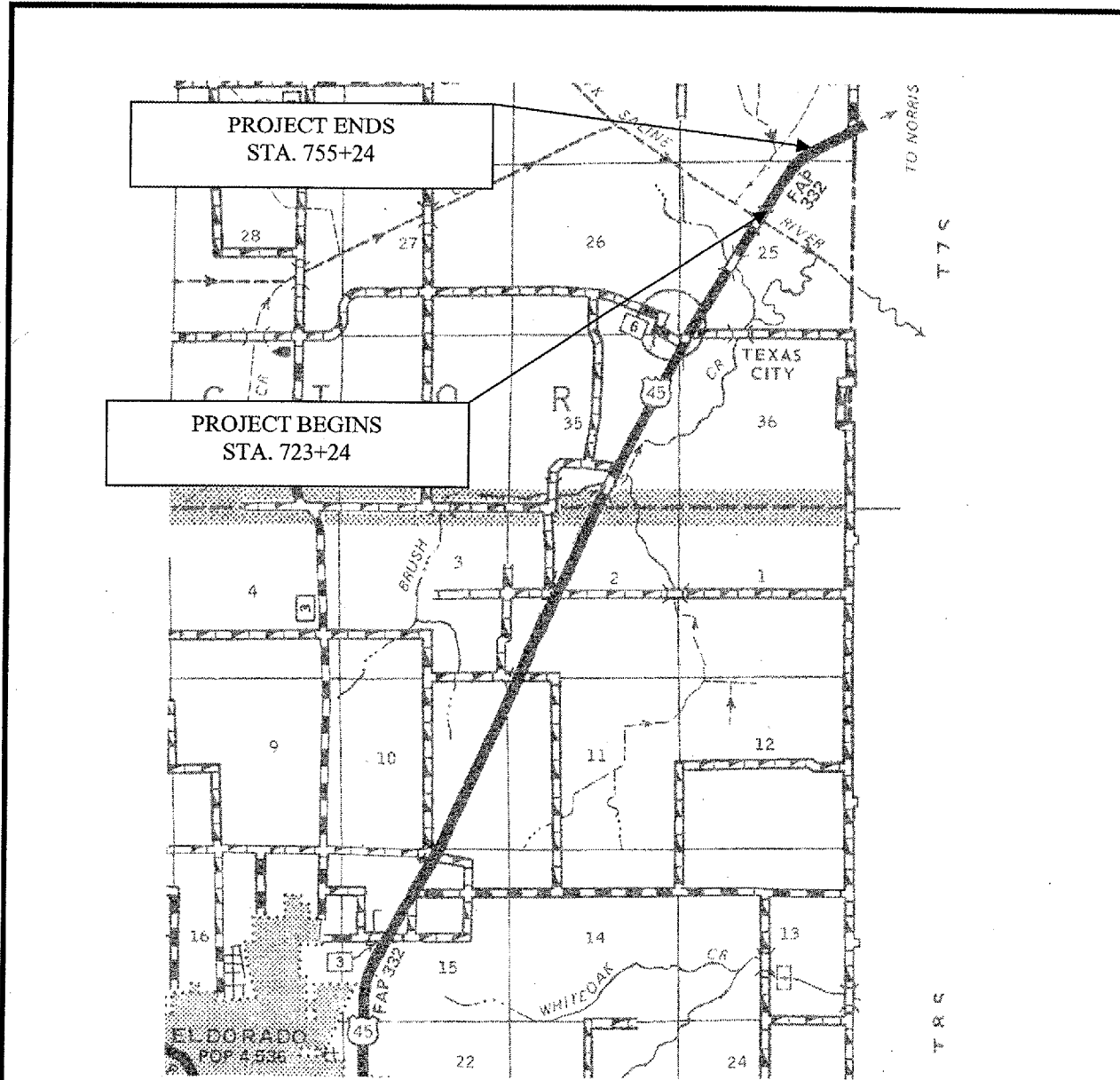
SUMMARY OF QUANTITIES

CODE NUMBER	ITEM DESCRIPTION	UNIT	VARIOUS COUNTIES 1000 TOTAL QUANTITY	LOC #1	LOC #2	LOC #3	LOC #4	LOC #5	LOC #6	LOC #7		LOC #8
				PULASKI CO.	JACKSON CO.	SALINE CO.	PULASKI CO.	JACKSON CO.	JACKSON CO.	JOHNSON CO.	POPE CO.	JACKSON CO.
				RURAL 100 % STATE	RURAL 100 % STATE	RURAL 100 % STATE	RURAL 100 % STATE	RURAL 100 % STATE	RURAL 100 % STATE	RURAL 100 % STATE	RURAL 100 % STATE	RURAL 100 % STATE
	CONSTRUCTION TYPE CODE											
X3560130	BITUMINOUS CONCRETE BASE COURSE WIDENING, SUPERPAVE 9 INCH	SQ YD	1,512				1,512					
X3560140	BITUMINOUS CONCRETE BASE COURSE WIDENING, SUPERPAVE 10 INCH	SQ YD	463			463						
X4066418	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N90	TON	3,254	350	1,037		667		530	128	542	
X4066428	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N90	TON	140					140				
X7015000	CHANGEABLE MESSAGE SIGN	CAL MO	2					2				
*Z0054505	ROCK FILL (REPLACEMENT)	TON	12	12								

*SPECIALTY ITEMS

LOCATION #3

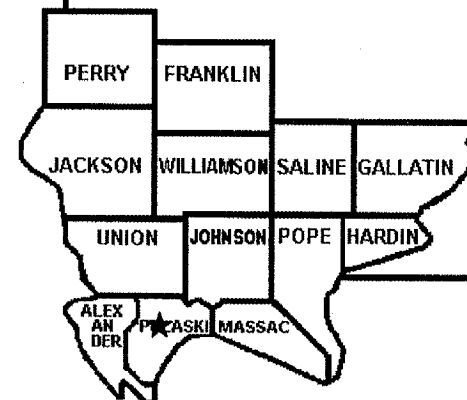
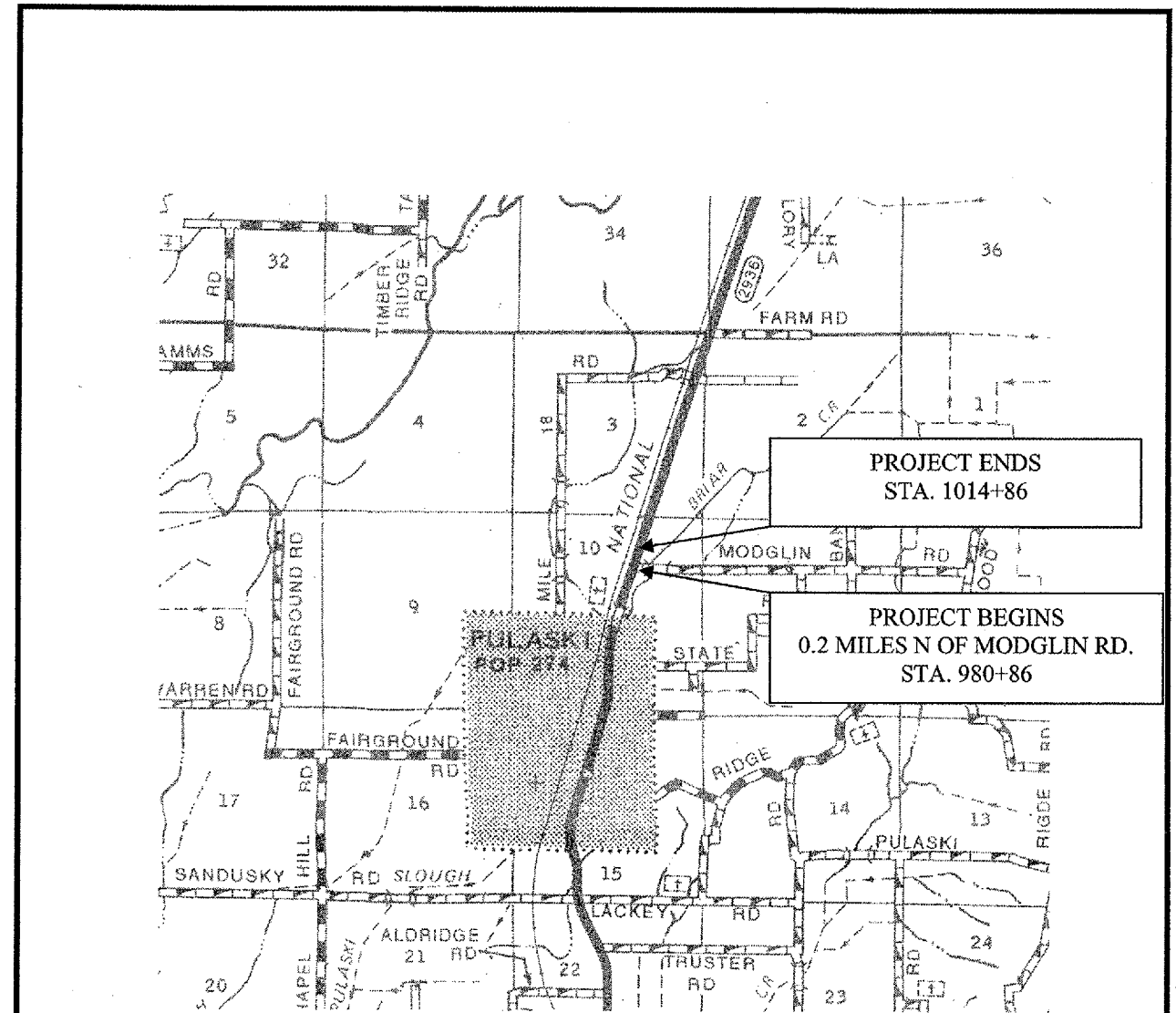
US 45/FAP 332
SALINE COUNTY



LOCATION #4

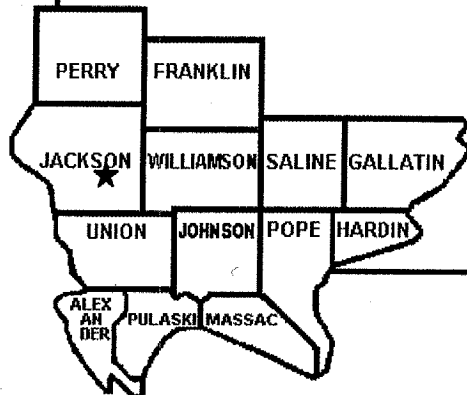
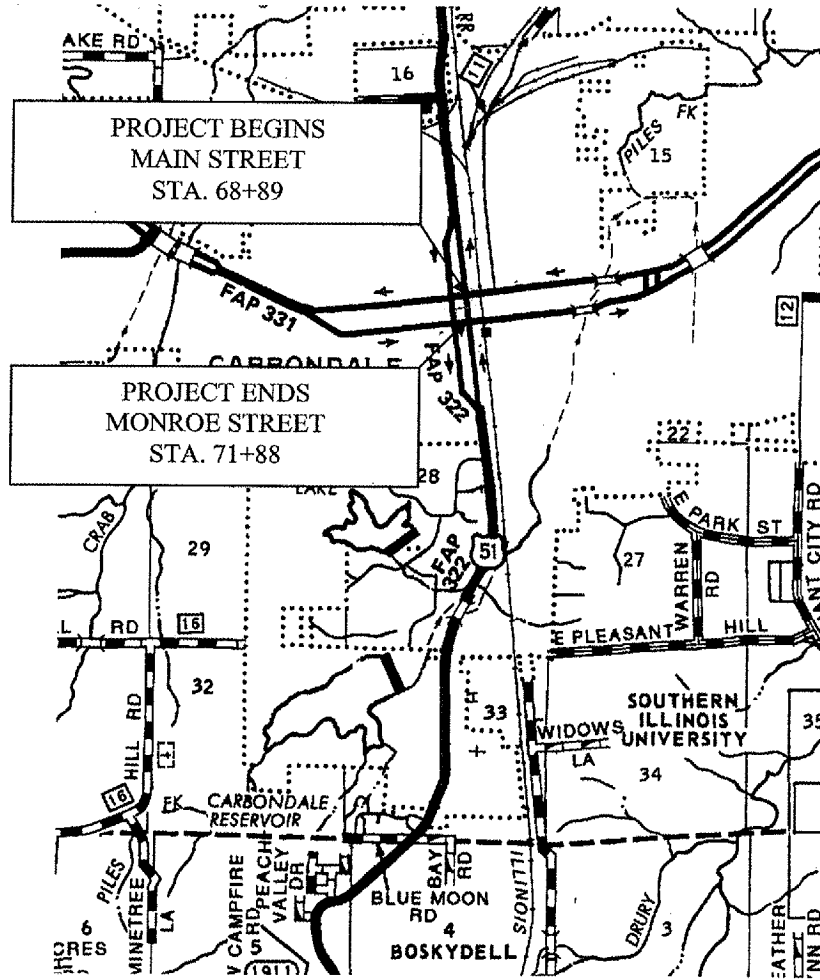
OLD US 51/FAS 2936
PULASKI COUNTY

VARIOUS ROUTES
D-9 CONT. MAINT. FY 06-3
VARIOUS CO.
CONTRACT # 98924
SHEET 10 OF 42



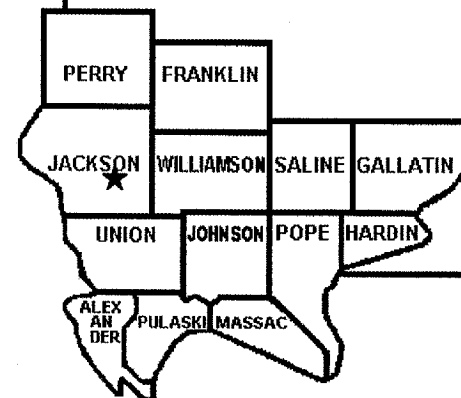
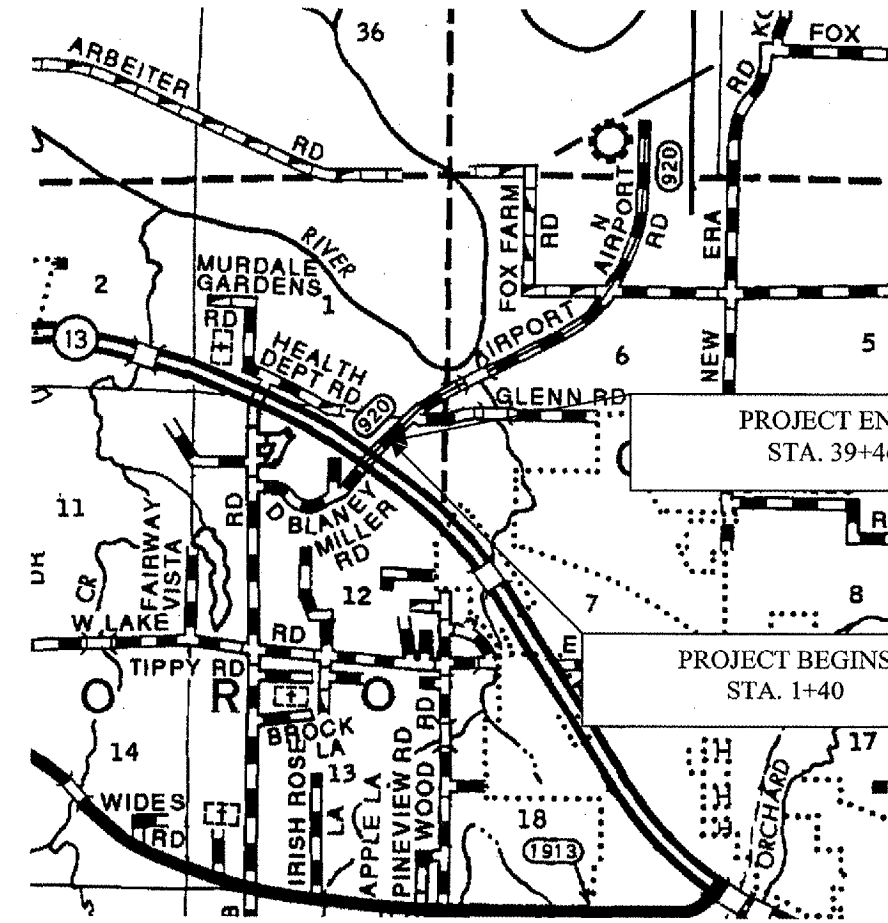
LOCATION #5

US 51 (NORTHBOUND LANE)/FAP 322
JACKSON COUNTY



LOCATION #6

AIRPORT ROAD/FAU 9729
JACKSON COUNTY

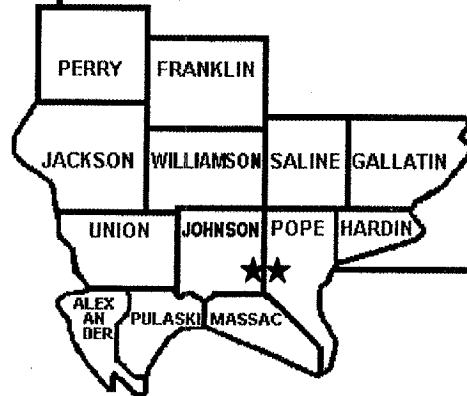
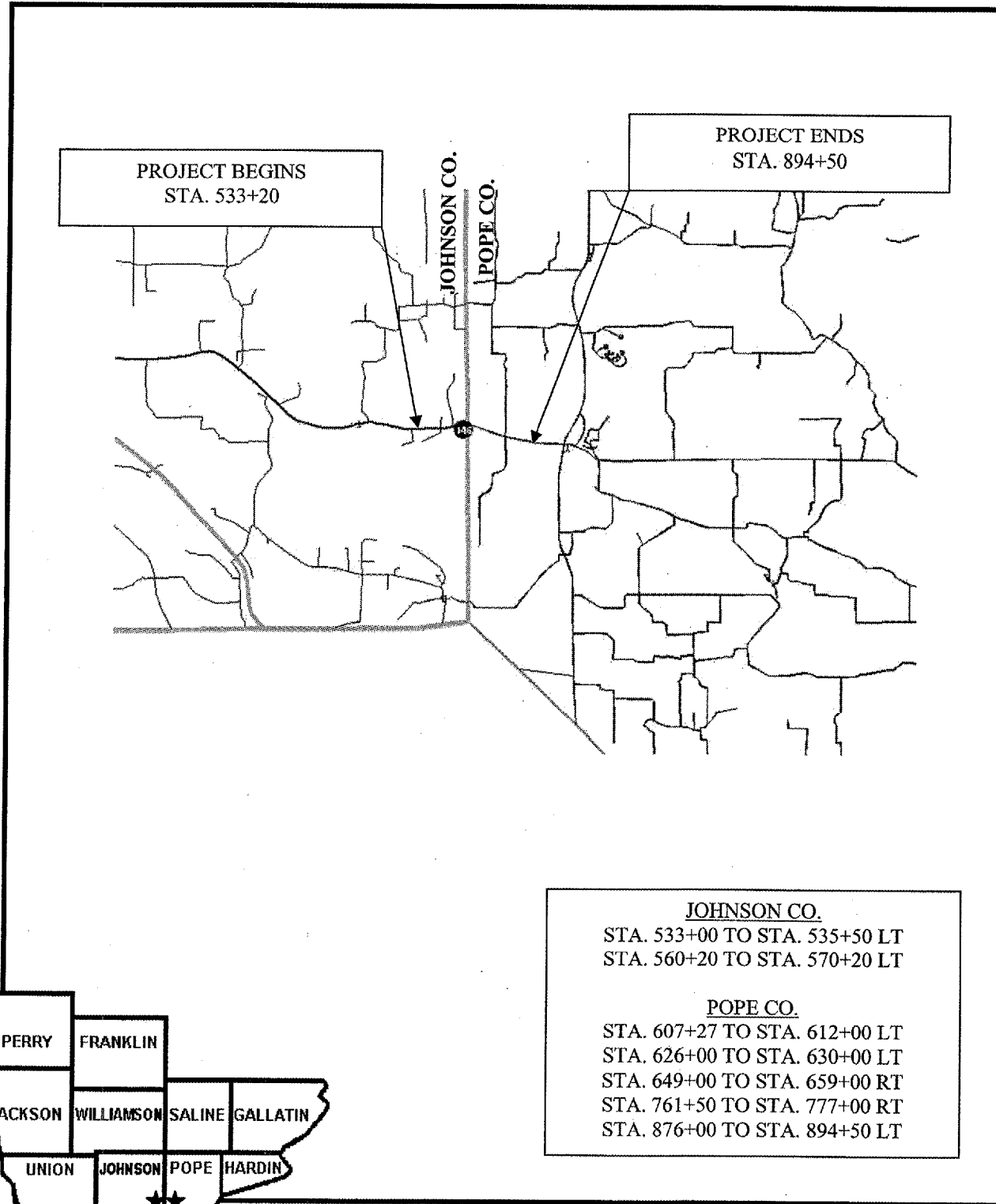


OMISSION
STA. 8+28 TO STA. 18+00



LOCATION #7

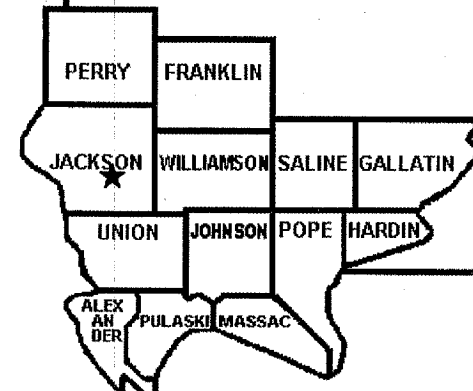
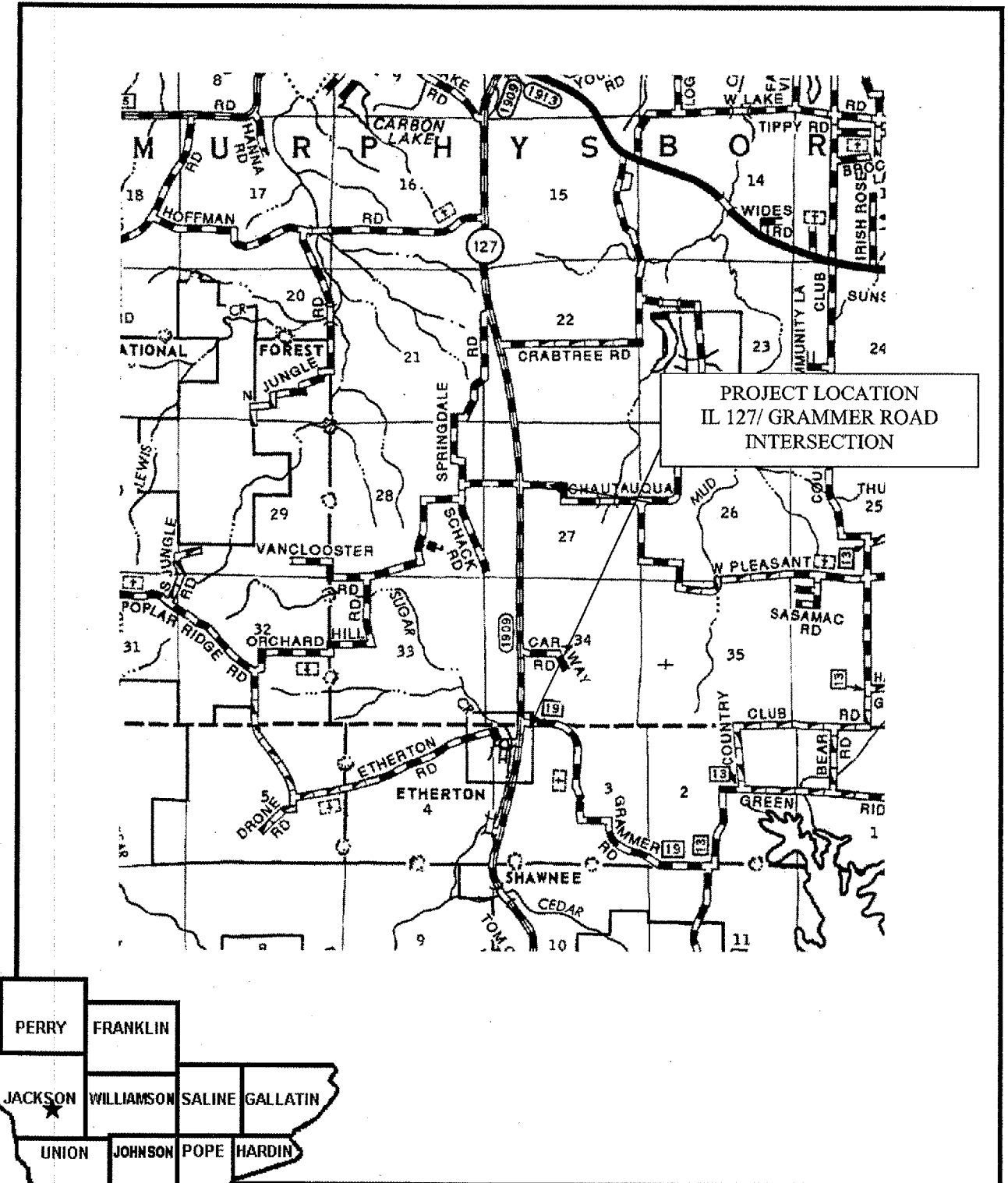
IL 146/FAP 885
JOHNSON/POPE COUNTIES



LOCATION #8

IL 127/FAS 1909
JACKSON COUNTY

VARIOUS ROUTES
D-9 CONT. MAINT. FY 06-3
VARIOUS CO.
CONTRACT # 98924
SHEET 12 OF 42



RESURFACING SCHEDULE

VARIOUS ROUTES
D-9 CONT. MAINT. FY 06-3
VARIOUS CO.
CONTRACT #98924
SHEET 13 OF 42

LOCATION				LENGTH (FEET)	WIDTH (FEET)	BIT SURF REMOVAL (SQ YD)	AVG DEPTH (INCH)	VOLUME (CU YD)	BIT CONC SURF CRSE MIX "C" (TON)	BIT CONC SURF CRSE MIX "D" (TON)	BIT CONC BASE CRSE WIDENING, 9" (SQ YD)	BIT CONC BASE CRSE WIDENING, 10" (SQ YD)	AGG BASE CRSE, TY A, 12" (SQ YD)	AGG SHOULDERS TY B (TON)
LOCATION #1														
STA. 751+00	TO	STA. 768+00		1,700	22	4,155.56	1.5	173.15	349.07	0.00	0.00	0.00	0.00	0.00
SUBTOTAL LOCATION #1 =						4,156			350	0	0	0	0	0
LOCATION #2														
STA. 417+40	TO	STA. 417+60		20	31	68.89	1.5	2.87	5.79	0.00	0.00	0.00	0.00	1.01
STA. 417+60	TO	STA. 440+65		2,305	22	5,634.44	1.5	234.77	473.29	0.00	0.00	0.00	0.00	116.67
STA. 440+65	TO	STA. 446+07		542	22	1,324.89	1.5	55.20	111.29	0.00	0.00	0.00	0.00	13.72
STA. 446+07	TO	STA. 452+16.8 BK =		610	20	1,355.11	1.5	56.46	113.83	0.00	0.00	0.00	0.00	0.00
STA. 452+97.5 AH	TO	STA. 456+05		308	20	683.33	1.5	28.47	57.40	0.00	0.00	0.00	0.00	0.00
STA. 456+05	TO	STA. 462+87		682	18.5	1,401.89	1.5	58.41	117.76	0.00	0.00	0.00	0.00	0.00
STA. 462+87	TO	STA. 467+57		470	19.5	1,018.33	1.5	42.43	85.54	0.00	0.00	0.00	0.00	11.90
STA. 467+57	TO	STA. 471+42		385	20	855.56	1.5	35.65	71.87	0.00	0.00	0.00	0.00	0.00
SUBTOTAL LOCATION #2 =						12,343			1,037	0	0	0	0	144
LOCATION #3														
STA. 729+75 LT	TO	STA. 733+75 LT		400	4	0.00	0.0	0.00	0.00	0.00	0.00	177.78	177.78	0.00
STA. 729+60 RT	TO	STA. 731+60 RT		200	4	0.00	0.0	0.00	0.00	0.00	0.00	88.89	88.89	0.00
STA. 734+25 LT	TO	STA. 735+00 LT		75	4	0.00	0.0	0.00	0.00	0.00	0.00	33.33	33.33	0.00
STA. 742+00 RT	TO	STA. 742+90 RT		90	4	0.00	0.0	0.00	0.00	0.00	0.00	40.00	40.00	0.00
STA. 743+20 RT	TO	STA. 744+35 RT		115	4	0.00	0.0	0.00	0.00	0.00	0.00	51.11	51.11	0.00
STA. 744+70 RT	TO	STA. 746+30 RT		160	4	0.00	0.0	0.00	0.00	0.00	0.00	71.11	71.11	0.00
SUBTOTAL LOCATION #3 =						0			0	0	0	463	463	0
LOCATION #4														
STA. 980+86	TO	STA. 1014+86		3,400	21	7,933.33	1.5	330.56	666.40	0.00	1,512.00	0.00	0.00	86.05
SUBTOTAL LOCATION #4 =						7,934			667	0	1,512	0	0	87
LOCATION #5														
STA. 68+89	TO	STA. 71+88		299	50	1,661.11	1.5	69.21	0.00	139.53	0.00	0.00	0.00	0.00
SUBTOTAL LOCATION #5 =						1,662			0	140	0	0	0	0
LOCATION #6														
STA. 1+40	TO	STA. 8+28		688	20	1,528.89	1.5	63.70	128.43	0.00	0.00	0.00	0.00	34.82
STA. 8+28	TO	STA. 18+00							OMISSION					
STA. 18+00	TO	STA. 39+46		2,146	20	4,768.89	1.5	198.70	400.59	0.00	0.00	0.00	0.00	108.62
SUBTOTAL LOCATION #6 =						6,298			530	0	0	0	0	144
LOCATION #7														
STA. 533+00	TO	STA. 535+50		250	11	305.56	1.5	12.73	25.67	0.00	0.00	0.00	0.00	0.00
STA. 535+50	TO	STA. 560+20							OMISSION					
STA. 560+20	TO	STA. 570+20		1,000	11	1,222.22	1.5	50.93	102.67	0.00	0.00	0.00	0.00	0.00
STA. 570+20	TO	STA. 607+27							OMISSION					
STA. 607+27	TO	STA. 612+00		473	11	578.11	1.5	24.09	48.56	0.00	0.00	0.00	0.00	0.00
STA. 612+00	TO	STA. 626+00							OMISSION					
STA. 626+00	TO	STA. 630+00		400	11	488.89	1.5	20.37	41.07	0.00	0.00	0.00	0.00	0.00
STA. 630+00	TO	STA. 649+00							OMISSION					
STA. 649+00	TO	STA. 659+00		1,000	11	1,222.22	1.5	50.93	102.67	0.00	0.00	0.00	0.00	0.00
STA. 659+00	TO	STA. 761+50							OMISSION					
STA. 761+50	TO	STA. 777+00		1,550	11	1,894.44	1.5	78.94	159.13	0.00	0.00	0.00	0.00	0.00
STA. 777+00	TO	STA. 876+00							OMISSION					
STA. 876+00	TO	STA. 894+50		1,850	11	2,261.11	1.5	94.21	189.93	0.00	0.00	0.00	0.00	0.00
SUBTOTAL LOCATION #7 =						7,973			670	0	0	0	0	0
TOTAL LOCATIONS #1-7 =						40,366			3,254	140	1,512	463	463	375

EARTHWORK SCHEDULE
LOCATION #1

LOCATION				EMBANKMENT	FURNISHED EXCAVATION
MAINLINE				(CU YD)	(CU YD)
STA. 749+00	TO	STA. 752+65		112	132.2
STA. 752+65	TO	STA. 761+00		202	238.4
TOTAL (CU YD) =				371	

SEEDING SCHEDULE
LOCATION #1

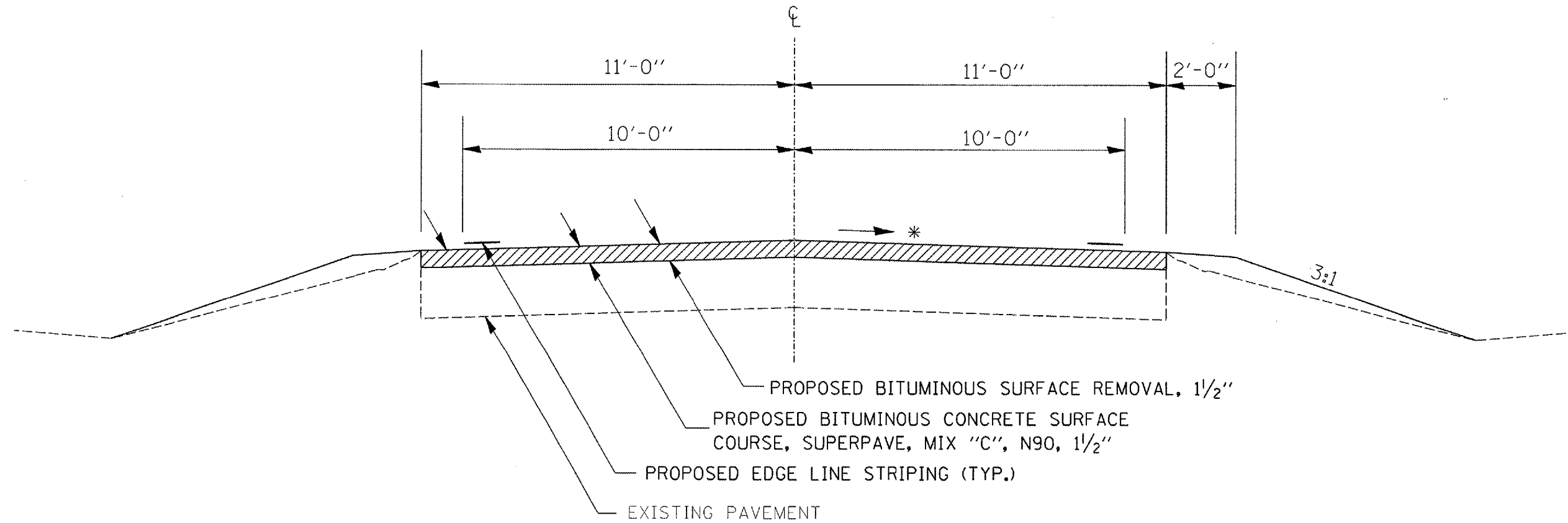
LOCATION				SEEDING, CLASS 2 (MODIFIED)	SEEDING, CLASS 7	TEMP EROSION CONTROL SEEDING	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGG GR LIMESTONE	MULCH, METHOD 2
				ACRE	ACRE	POUND	POUND	POUND	POUND	TON	ACRE
RIGHT											
STA. 749+00	TO	STA. 752+65		0.14	0.14	39.9	21.3	15.9	15.9	0.27	0.14
STA. 752+65	TO	STA. 761+00		0.25	0.25	88.9	47.6	35.7	35.7	0.61	0.25
LEFT											
STA. 749+00	TO	STA. 752+65		0.05	0.05	16.1	8.6	6.6	6.6	0.11	0.05
STA. 752+65	TO	STA. 761+00		0.12	0.12	36.4	19.4	13.9	13.9	0.25	0.12
TOTALS				0.6	0.6	182	97	73	73	1.3	0.6

PAVEMENT MARKING SCHEDULE

LOCATION STATION TO STATION				PAINT PAVEMENT MARKING						THERMOPLASTIC PAVEMENT MARKING								
				LINE - 4" WHITE			LINE - 4" YELLOW			LINE - 4" WHITE			LINE - 4" YELLOW			LINE - 6"	LINE - 24"	LTRS & SYMBLS
				LEFT SOLID	CENTER DASHED	RIGHT SOLID	LEFT SOLID	CENTER DASHED	RIGHT SOLID	LEFT SOLID	CENTER DASHED	RIGHT SOLID	LEFT SOLID	CENTER DASHED	RIGHT SOLID	WHITE	WHITE	WHITE
				FEET			FEET			FEET			FEET			FEET	FEET	SQ FT
LOCATION #1																		
STA. 751+00	TO	STA. 768+00		1,700.0		1,700.0		425.0										
SUBTOTAL LOCATION #1 =				1,700.0	0.0	1,700.0	0.0	425.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
LOCATION #2																		
STA. 417+40	TO	STA. 452+16.8 BK =		3,476.8		3,476.8		3,476.8										
STA. 452+97.5 AH	TO	STA. 455+25		227.5		227.5		227.5										
STA. 455+25	TO	STA. 460+49		524.0		524.0		524.0	131.0									
STA. 460+49	TO	STA. 464+84		435.0		435.0		435.0										
STA. 464+84	TO	STA. 468+88		404.0		404.0		101.0	404.0									
STA. 468+88	TO	STA. 471+04		216.0		216.0		54.0										
STA. 471+04	TO	STA. 471+42		38.0		38.0		9.5										
SUBTOTAL LOCATION #2 =				5,321.3	0.0	5,321.3	4,701.3	295.5	4,543.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
LOCATION #3																		
STA. 723+24	TO	STA. 755+24		475.0		545.0	VARIOUS EDGE LINES											
SUBTOTAL LOCATION #3 =				475.0	0.0	545.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
LOCATION #4																		
STA. 980+86	TO	STA. 1014+86		3,400.0		3,400.0		850.0										
SUBTOTAL LOCATION #4 =				3,400.0	0.0	3,400.0	0.0	850.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
LOCATION #5																		
STA. 68+89	TO	STA. 69+05											100	50				
STA. 69+05	TO	STA. 70+75							170.0	42.5	12.0							
STA. 70+75	TO	STA. 71+88								28.3			8.0			98.8		
SUBTOTAL LOCATION #5 =				0.0	0.0	0.0	0.0	0.0	0.0	170.0	70.8	12.0	0.0	0.0	16.0	100	50	
LOCATION #6																		
STA. 1+40	TO	STA. 8+25		685.0		685.0		171.3										
STA. 8+25	TO	STA. 18+00							OMISSION									
STA. 18+00	TO	STA. 18+94		94.0		94.0	94.0	94.0										
STA. 18+94	TO	STA. 29+06		1,012.0		1,012.0	1,012.0	253.0										
STA. 29+06	TO	STA. 39+46		1,040.0		1,040.0		260.0										
SUBTOTAL LOCATION #6 =				2,831.0	0.0	2,831.0	1,106.0	684.3	94.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
LOCATION #7																		
STA. 533+00	TO	STA. 535+50		250.0														
STA. 560+20	TO	STA. 570+20		1,000.0														
STA. 607+27	TO	STA. 612+00		473.0														
STA. 626+00	TO	STA. 630+00		400.0														
STA. 649+00	TO	STA. 659+00		1,000.0														
STA. 761+50	TO	STA. 777+00		1,550.0														
STA. 876+00	TO	STA. 894+50		1,850.0														
SUBTOTAL LOCATION #7 =				6,523.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0		
TOTAL LOCATIONS #1-7 =				46,748						269			100	50	98.8			

** Accounts for double edge line striping

LOCATION #1
FAP 2936 (OLD US 51)
PULASKI COUNTY
TYPICAL SECTION
NOT TO SCALE

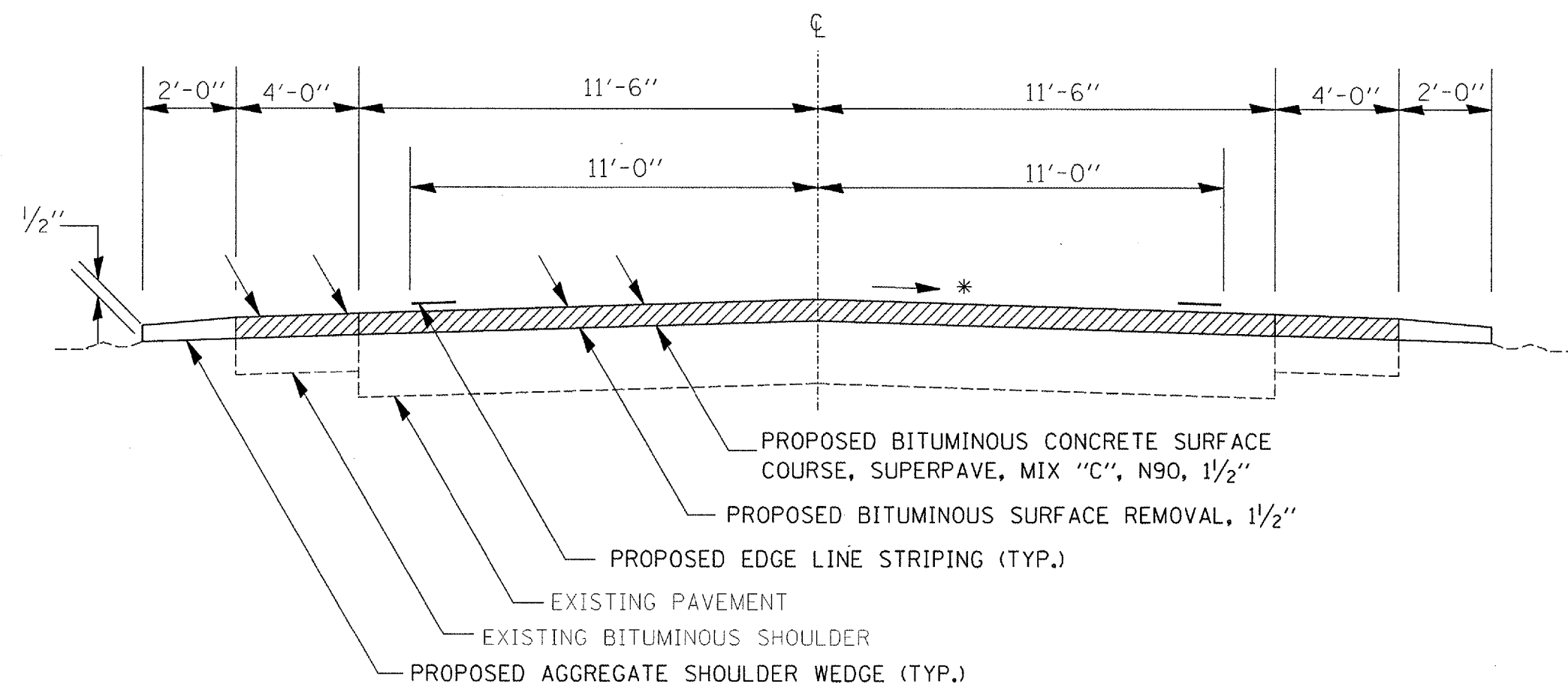


TO BE USED:

STA. 751+00 TO STA. 768+00

* MATCH EXISTING SLOPE RT & LT

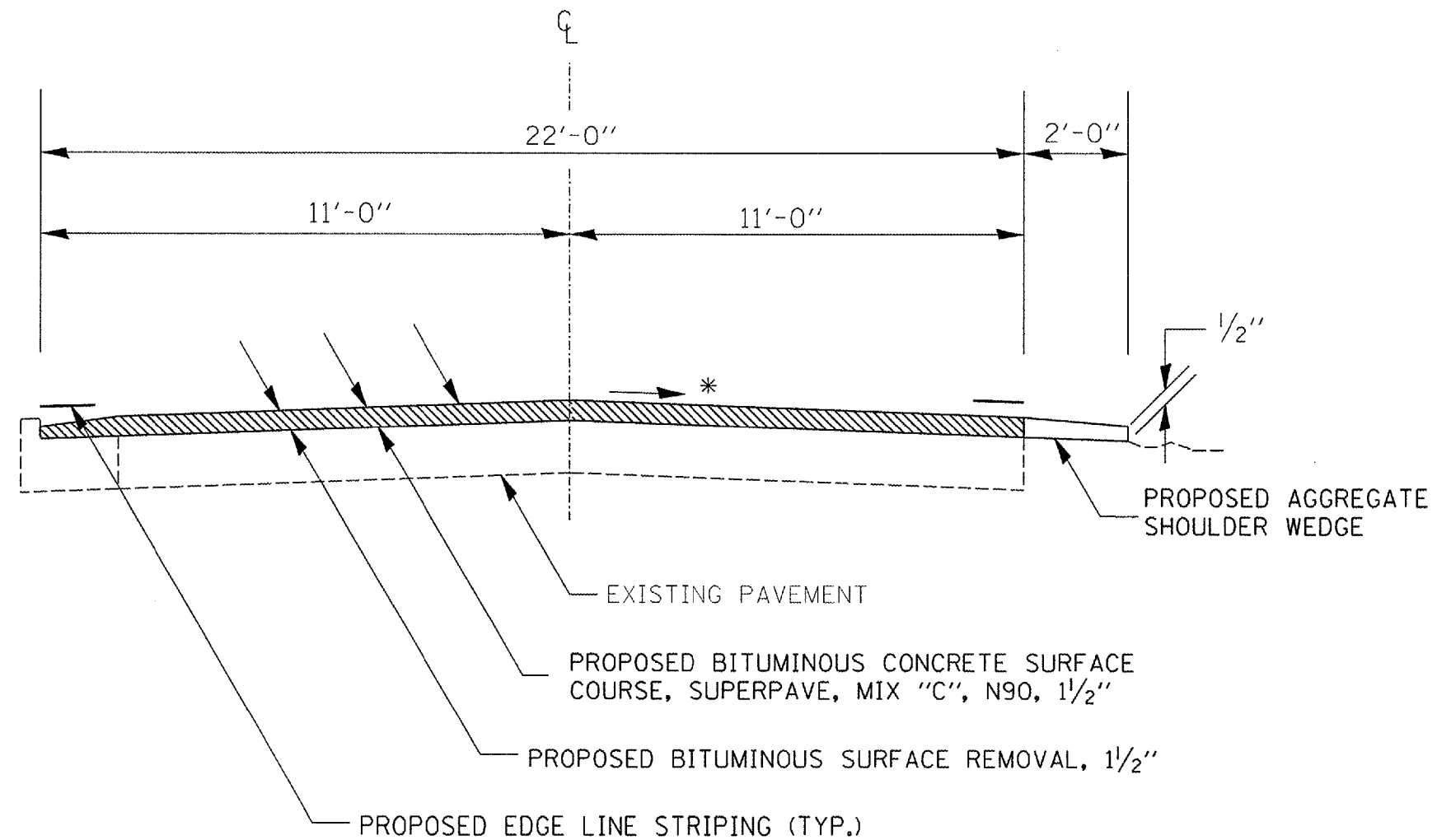
LOCATION #2
 FAS 1911 (OLD US 51)
 JACKSON COUNTY
 TYPICAL SECTION
 NOT TO SCALE



TO BE USED:
 STA. 417+40 TO STA. 417+60

* MATCH EXISTING SLOPE RT & LT

LOCATION #2
FAS 1911 (OLD US 51)
JACKSON COUNTY
TYPICAL SECTION
NOT TO SCALE



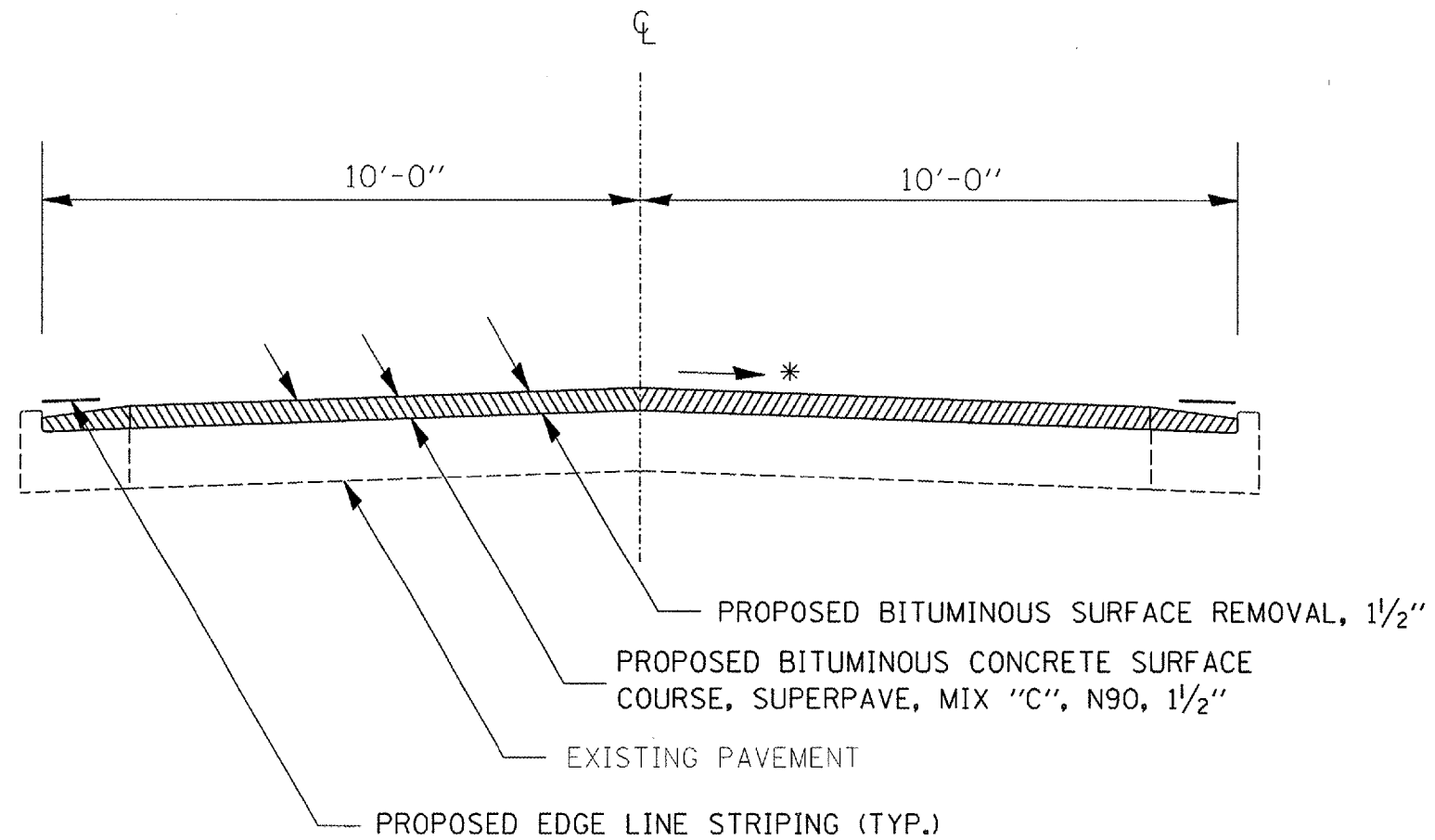
TO BE USED:

STA. 440+65 TO STA. 446+07

* MATCH EXISTING SLOPE RT & LT

LOCATION #2
 FAS 1911 (OLD US 51)
 JACKSON COUNTY
 TYPICAL SECTION
 NOT TO SCALE

VARIOUS ROUTES
 D-9 CONT. MAINT. FY 06-3
 VARIOUS CO.
 CONTRACT #98924
 SHEET 20 OF 42



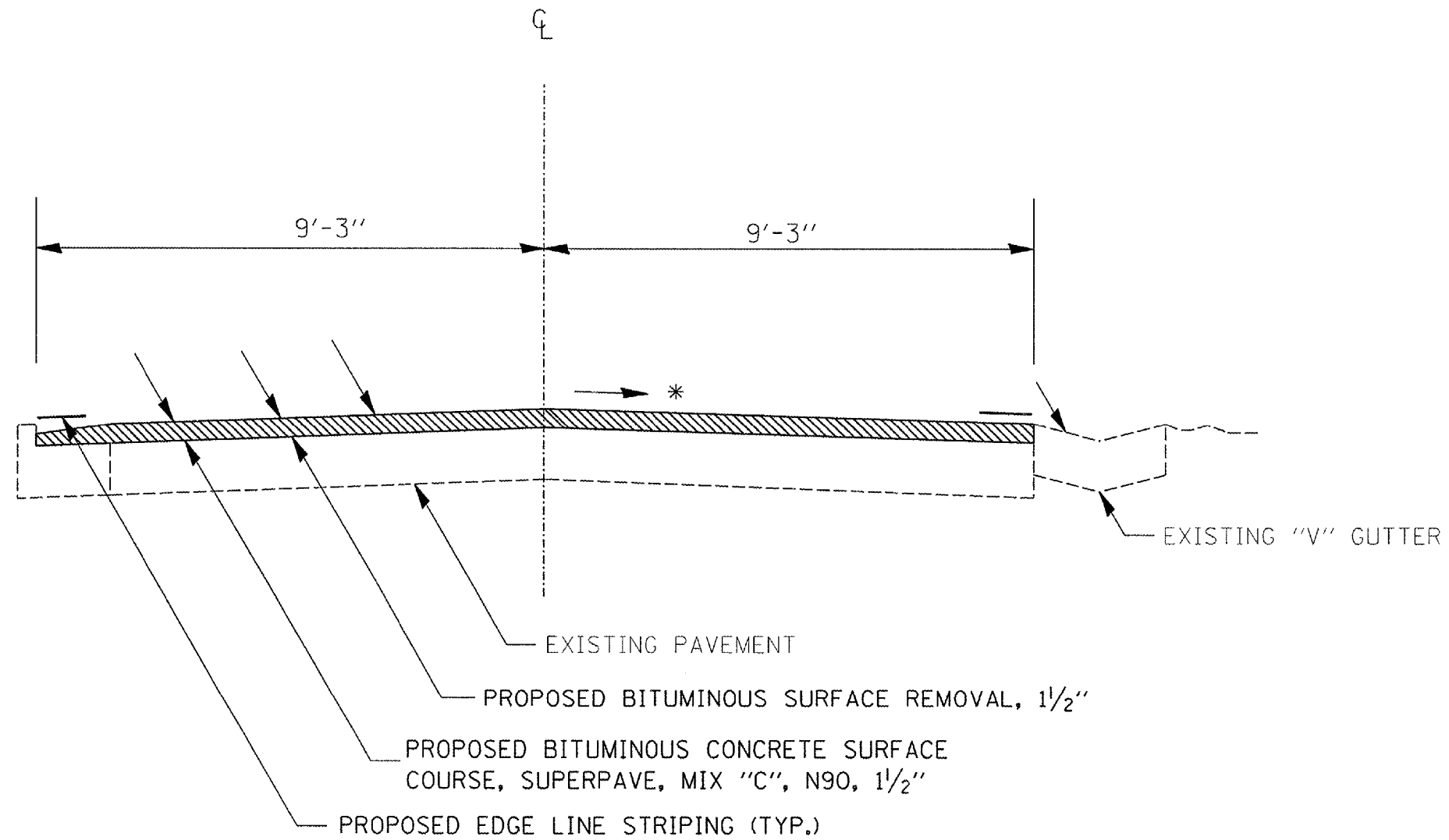
TO BE USED:

STA. 446+07 TO STA. 452+16.8 BK=
 STA. 452+97.5 AH TO STA. 456+05
 STA. 467+57 TO STA. 471+42

* MATCH EXISTING SLOPE RT & LT

LOCATION #2
 FAS 1911 (OLD US 51)
 JACKSON COUNTY
 TYPICAL SECTION
 NOT TO SCALE

VARIOUS ROUTES
 D-9 CONT. MAINT. FY 06-3
 VARIOUS CO.
 CONTRACT #98924
 SHEET 21 OF 42

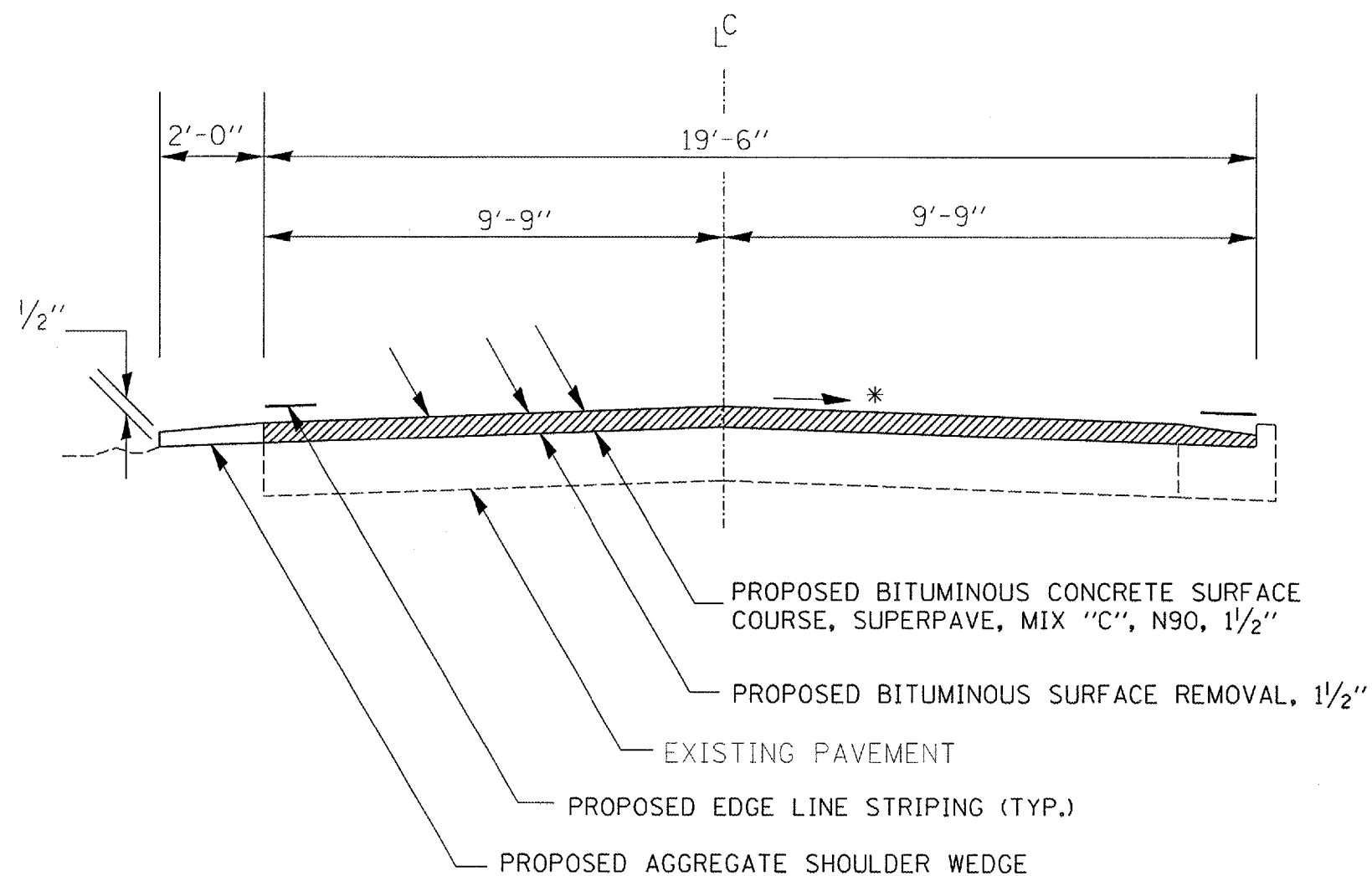


TO BE USED:

STA. 456+05 TO STA. 462+87

* MATCH EXISTING SLOPE RT & LT

LOCATION #2
FAS 1911 (OLD US 51)
JACKSON COUNTY
TYPICAL SECTION
NOT TO SCALE

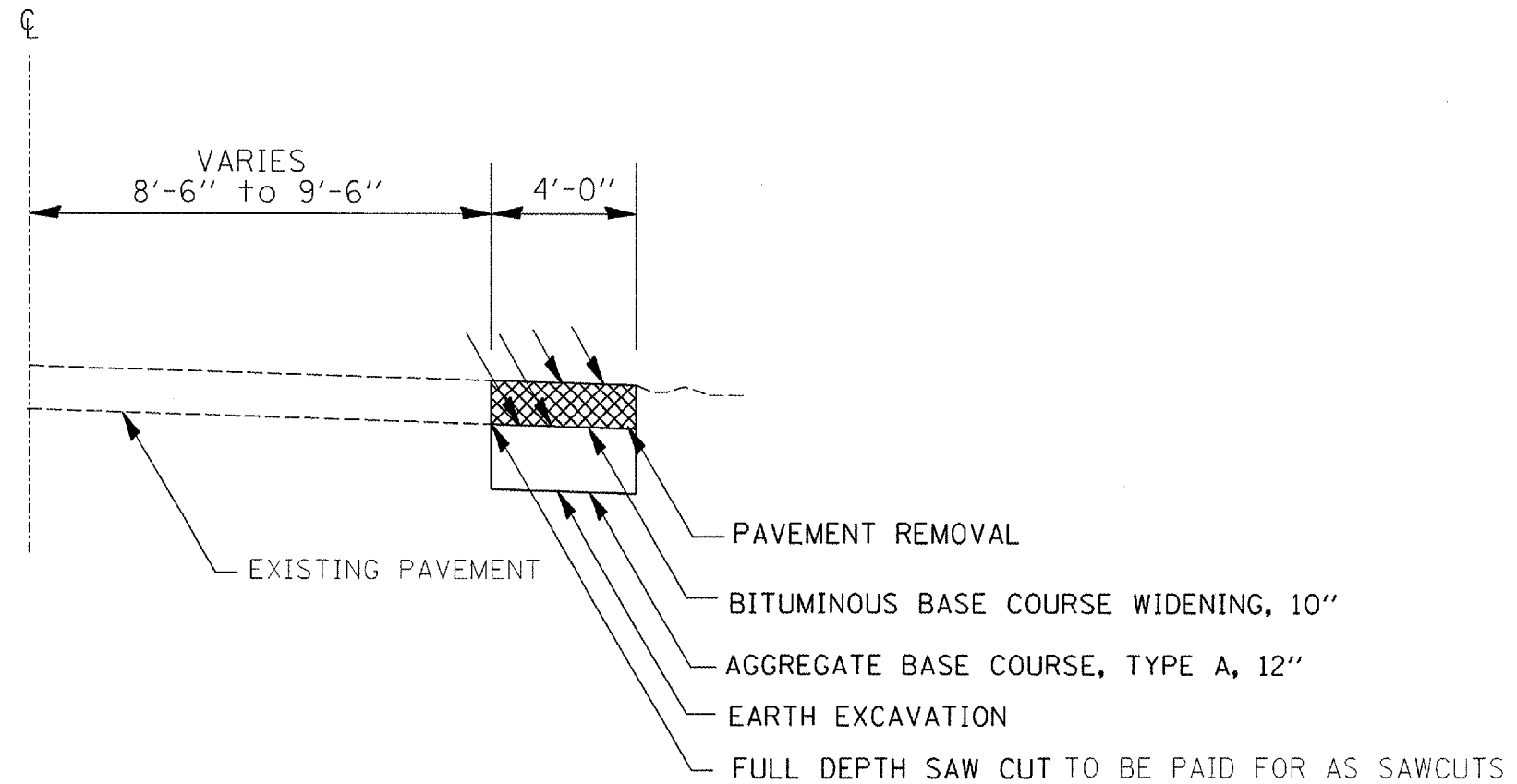


TO BE USED:

STA. 462+87 TO STA. 467+57

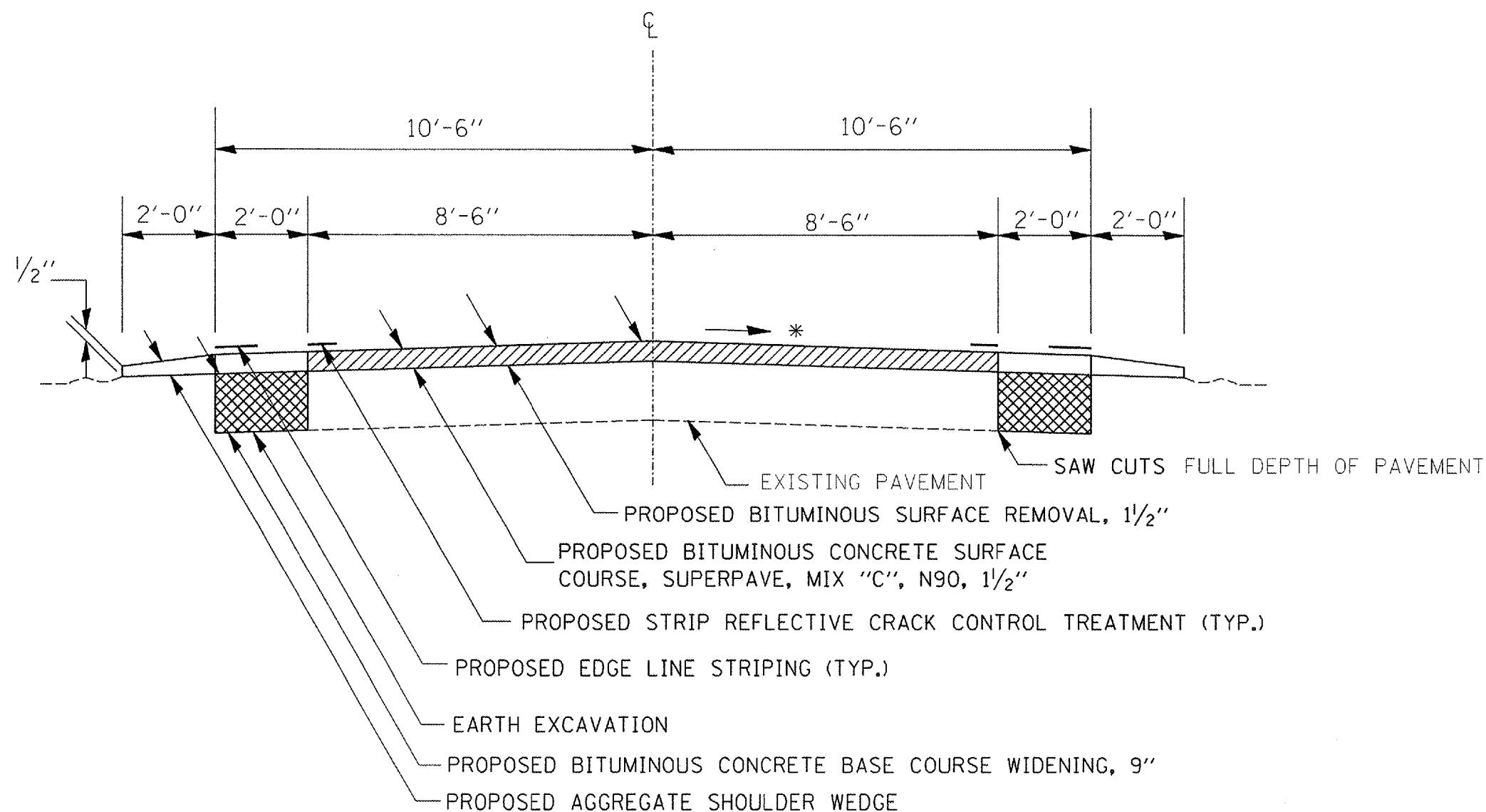
* MATCH EXISTING SLOPE RT & LT

LOCATION #3
FAP 332 (US 45)
SALINE COUNTY
PAVEMENT REPAIR DETAIL
NOT TO SCALE



TO BE USED:
SPOT LOCATIONS (RT & LT)
(SEE RESURFACING SCHEDULE)
STA. 723+24 TO STA. 755+24

LOCATION #4
FAP 2936 (OLD US 51)
PULASKI COUNTY
TYPICAL SECTION
NOT TO SCALE



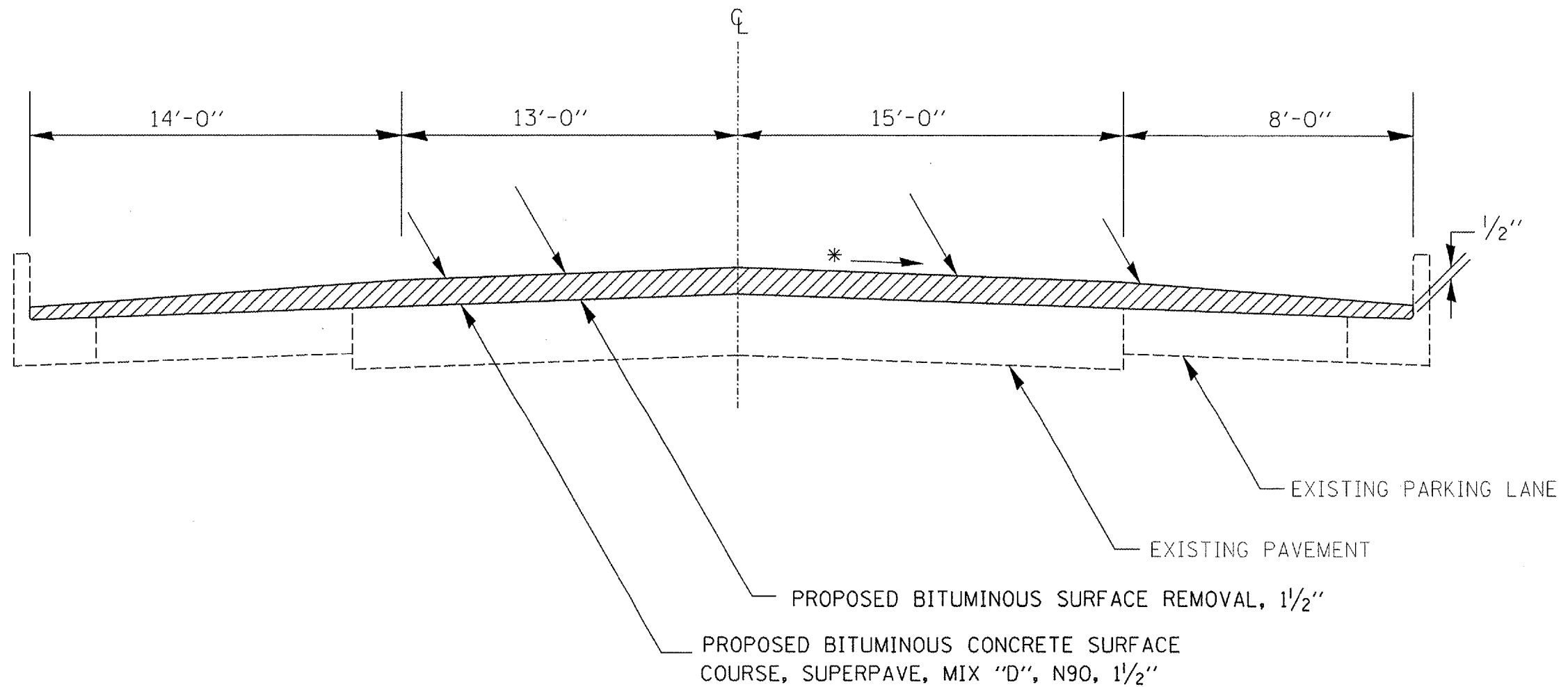
TO BE USED:

* MATCH EXISTING SLOPE RT & LT

STA. 980+86 TO STA. 1014+86

LOCATION #5
FAP 332 (US 51)
JACKSON COUNTY
TYPICAL SECTION

NOT TO SCALE



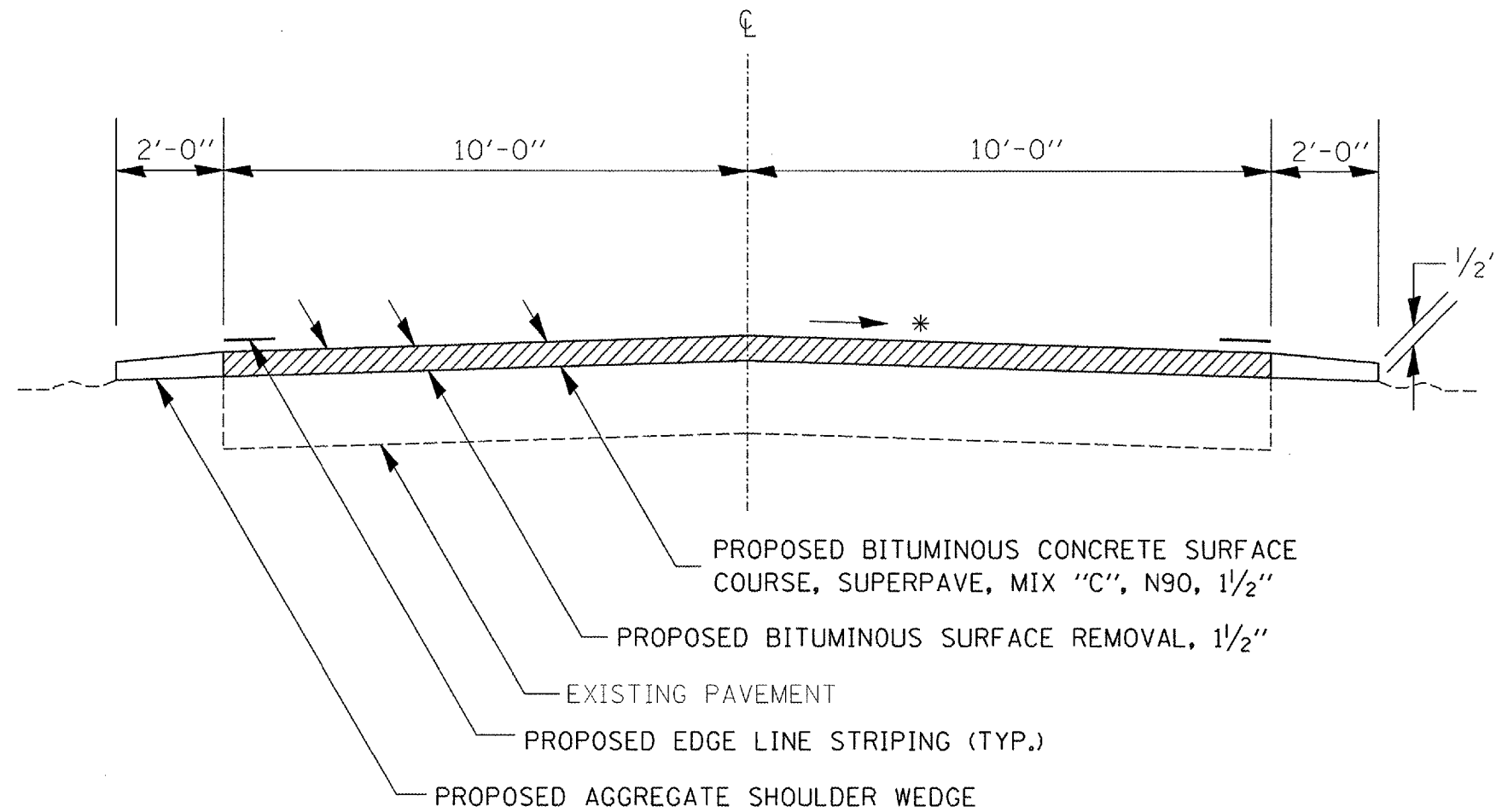
TO BE USED:

STA. 68+89 TO STA. 71+88

* MATCH EXISTING SLOPE RT & LT

LOCATION #6
 FAU 9729 (AIRPORT ROAD)
 JACKSON COUNTY
 TYPICAL SECTION
 NOT TO SCALE

VARIOUS ROUTES
 D-9 CONT. MAINT. FY 06-3
 VARIOUS CO.
 CONTRACT #98924
 SHEET 26 OF 42

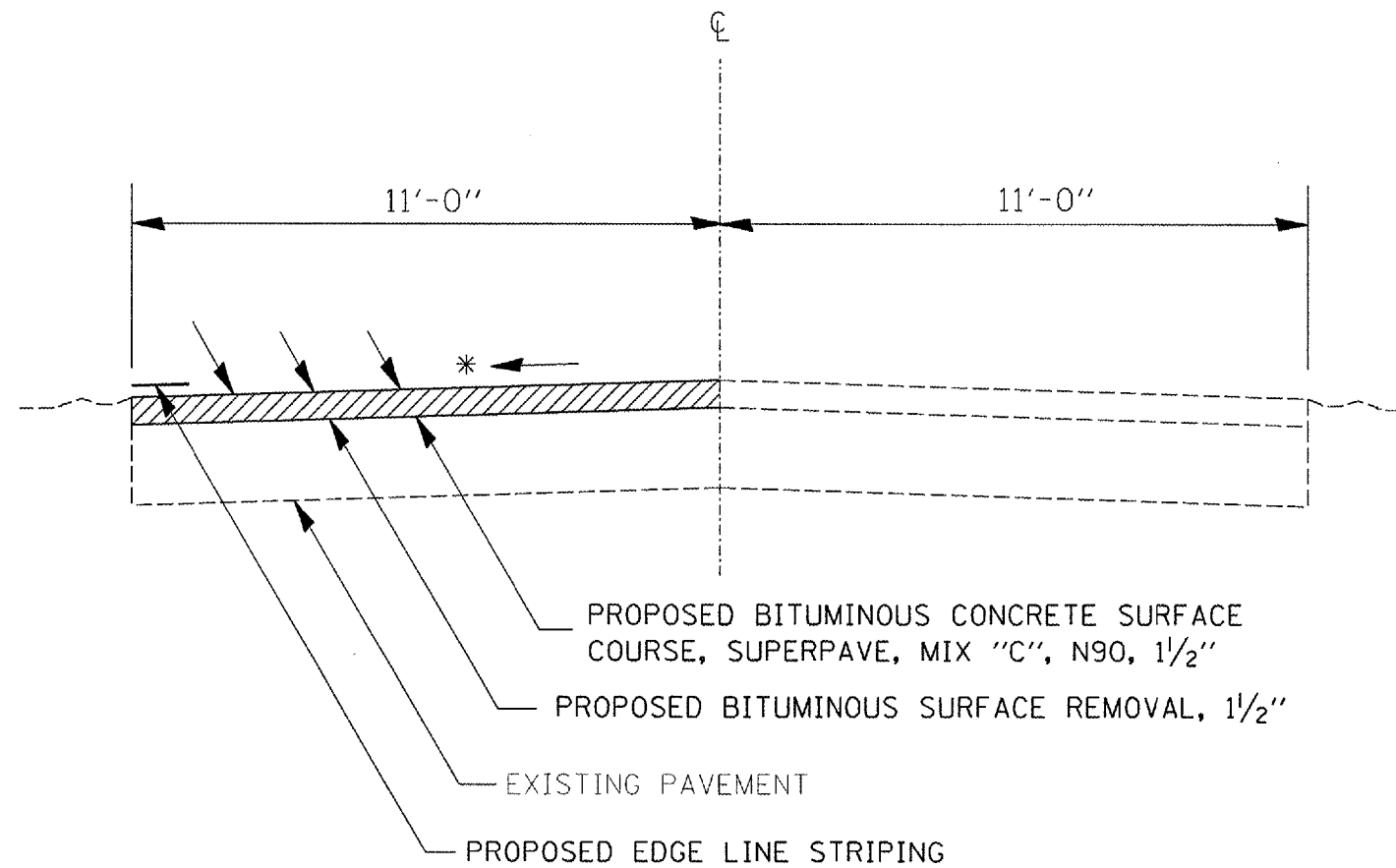


TO BE USED:
 STA. 1+40 TO STA. 8+28
 STA. 18+00 TO STA. 39+46

* MATCH EXISTING SLOPE RT & LT

LOCATION #7
 FAP 885 (IL 146)
 JOHNSON/POPE COUNTIES
 TYPICAL SECTION
 NOT TO SCALE

VARIOUS ROUTES
 D-9 CONT. MAINT. FY 06-3
 VARIOUS CO.
 CONTRACT #98924
 SHEET 27 OF 42



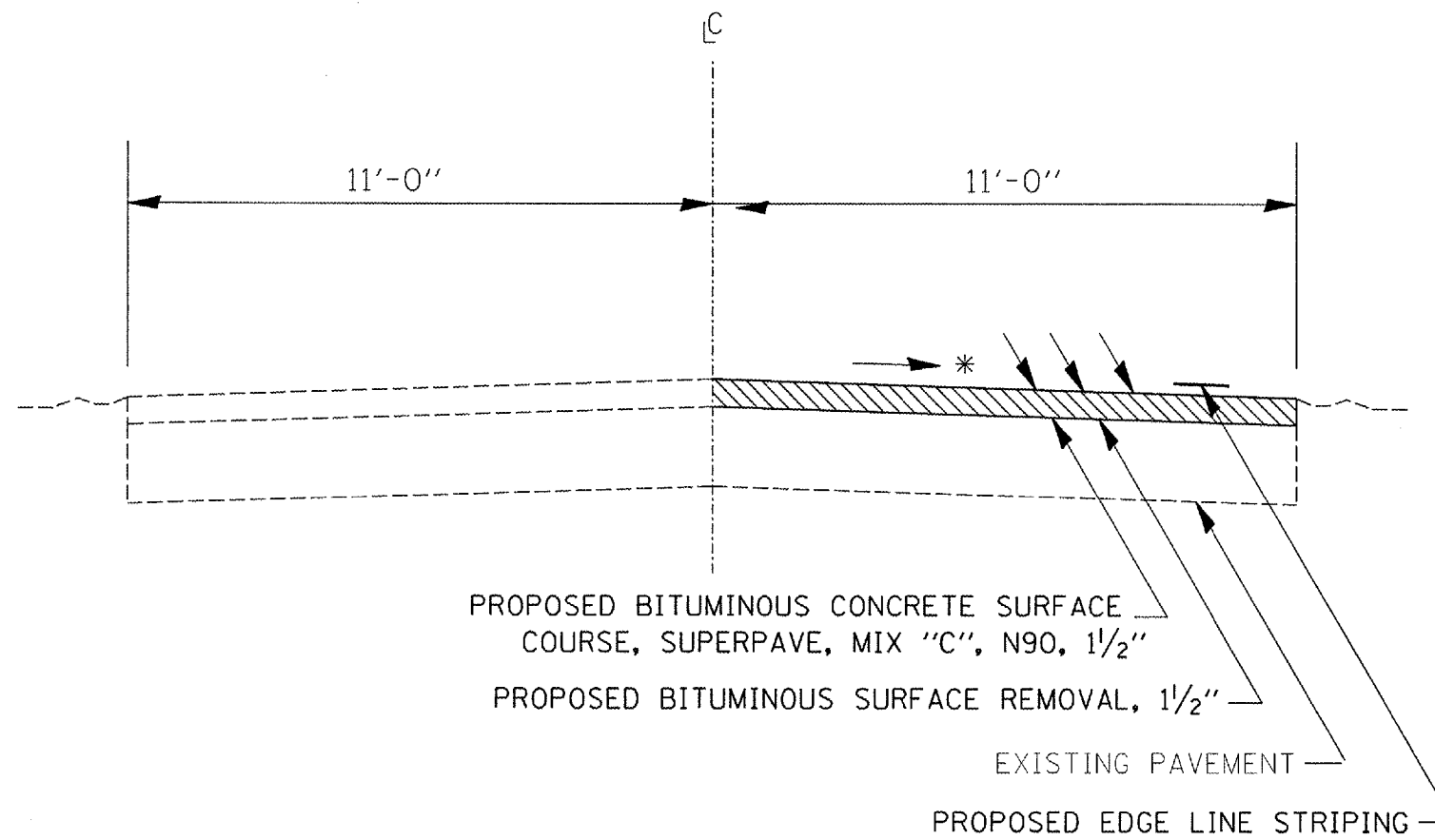
TO BE USED:

- STA. 533+00 TO STA. 535+50 LT
- STA. 560+20 TO STA. 570+20 LT
- STA. 607+27 TO STA. 612+00 LT
- STA. 626+00 TO STA. 630+00 LT
- STA. 876+00 TO STA. 894+50 LT

* MATCH EXISTING SLOPE

LOCATION #7
 FAP 885 (IL 146)
 JOHNSON/POPE COUNTIES
 TYPICAL SECTION
 NOT TO SCALE

VARIOUS ROUTES
 D-9 CONT. MAINT. FY 06-3
 VARIOUS CO.
 CONTRACT #98924
 SHEET 28 OF 42

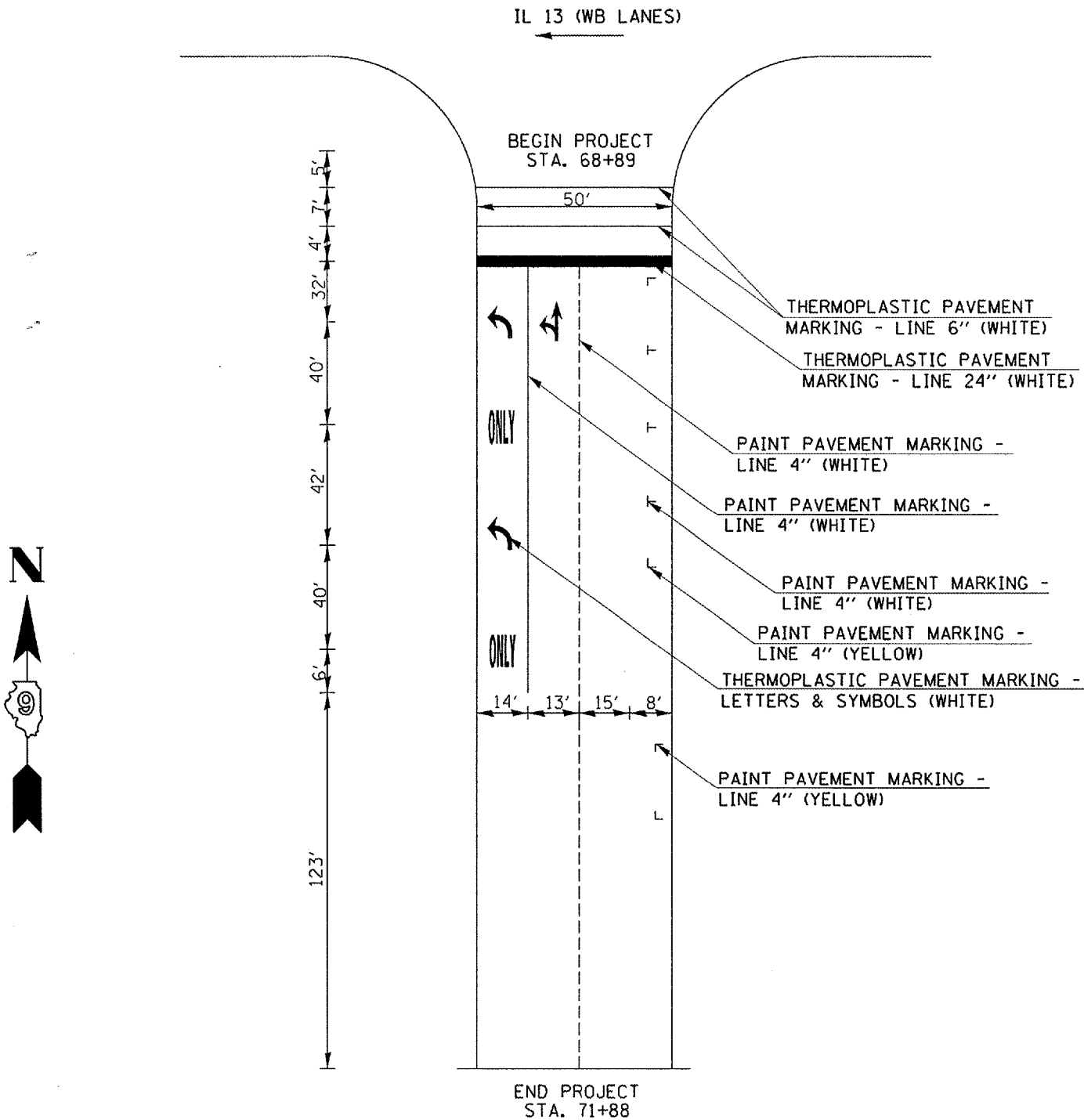


TO BE USED:

STA. 649+00 TO STA. 659+00 RT
 STA. 761+50 TO STA. 777+00 RT

* MATCH EXISTING SLOPE

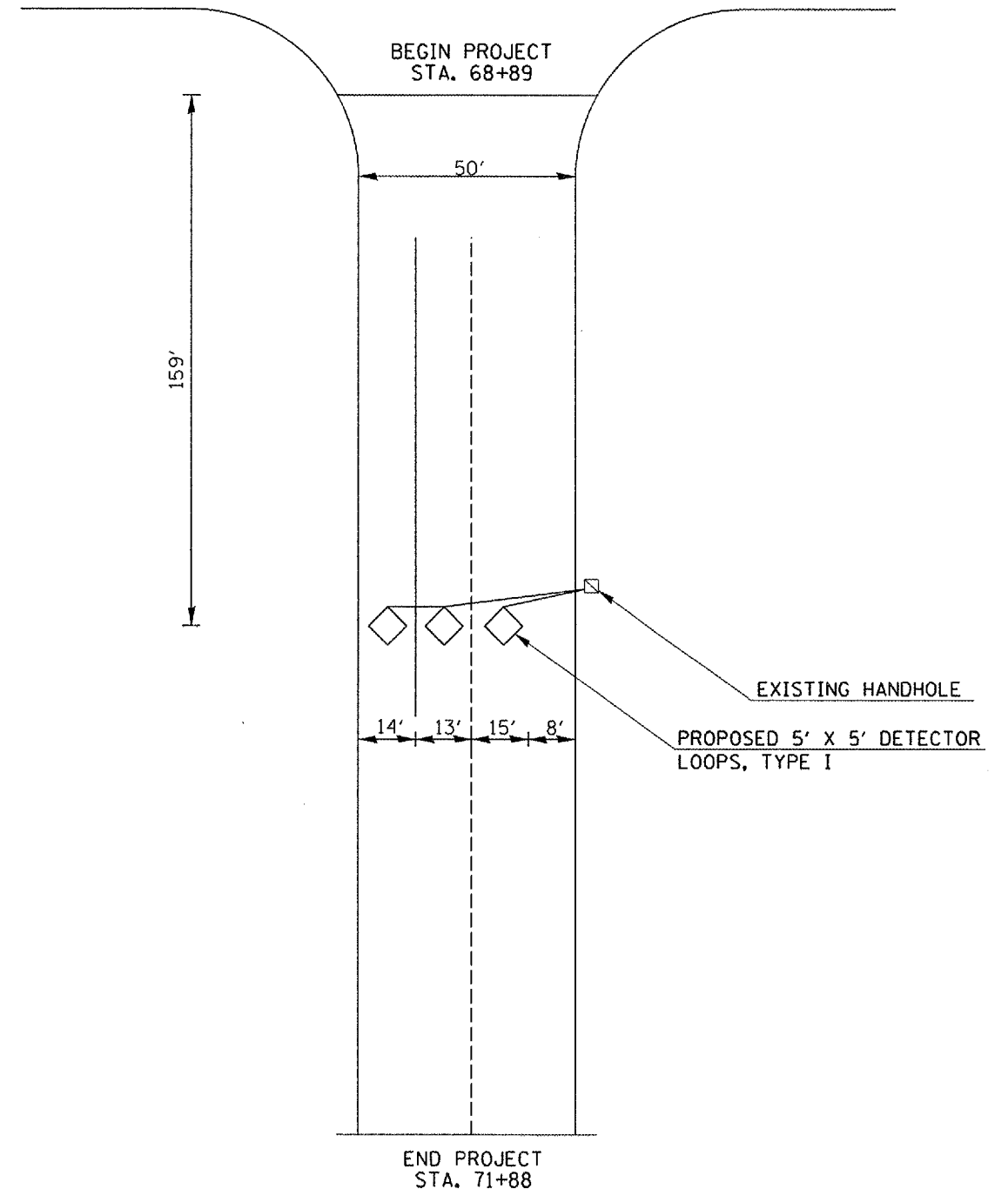
LOCATION #5
 FAP 322 (U.S. 51)
 JACKSON CO.
 PAVEMENT MARKING DETAIL
 NOT TO SCALE



* DIMENSIONS ARE TO THE CENTER OF PAVEMENT MARKINGS

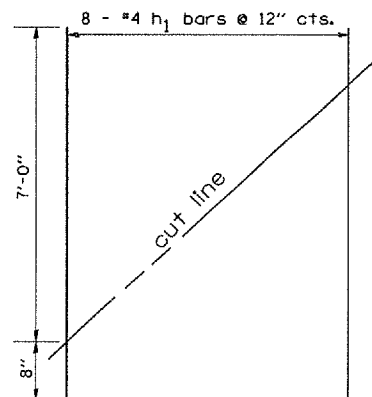
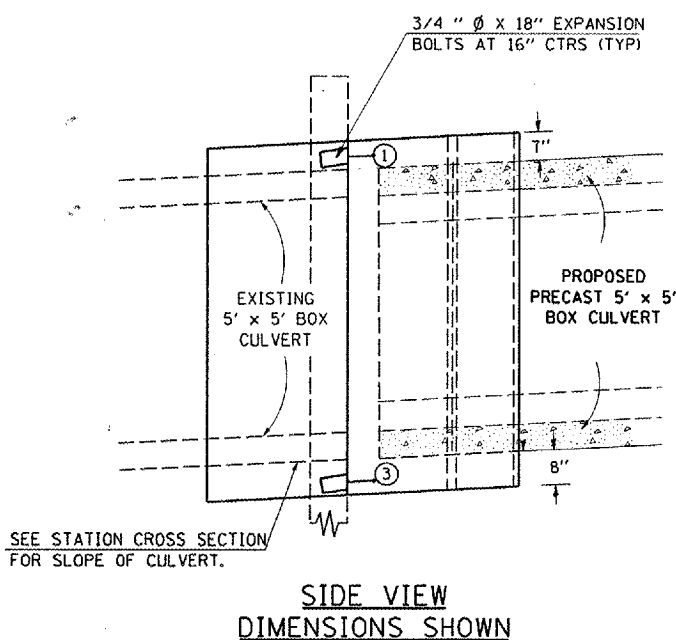
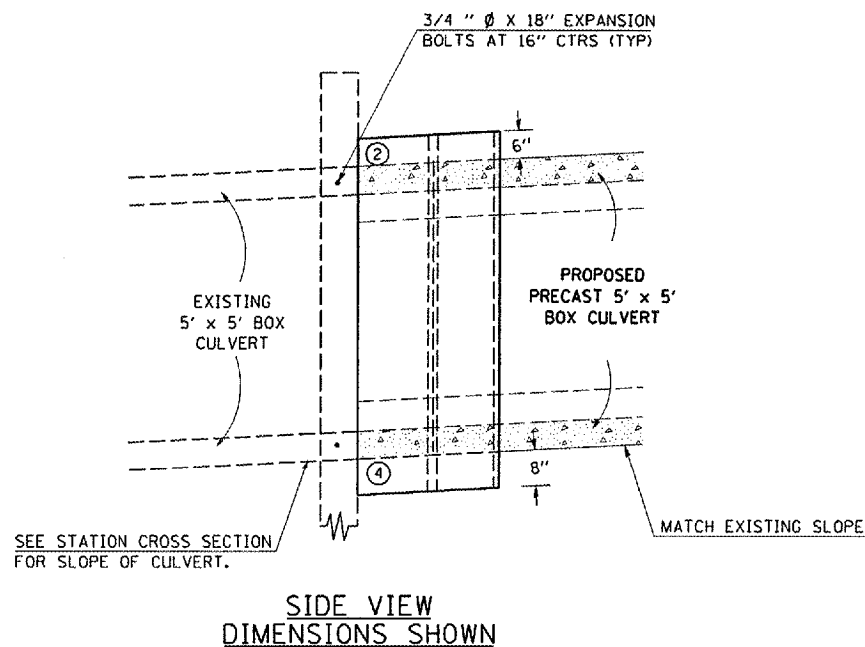
LOCATION #5
 FAP 322 (U.S. 51)
 JACKSON CO.
 DETECTOR LOOP DETAIL
 NOT TO SCALE

VARIOUS ROUTES
 D-9 CONT. MAINT. FY 06-3
 VARIOUS CO.
 CONTRACT #98924
 SHEET 29 OF 42



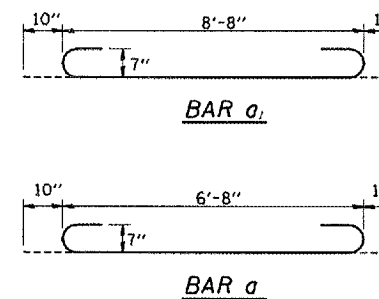
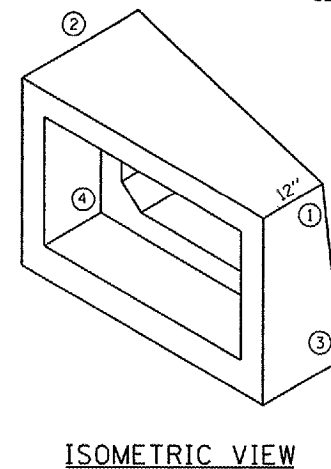
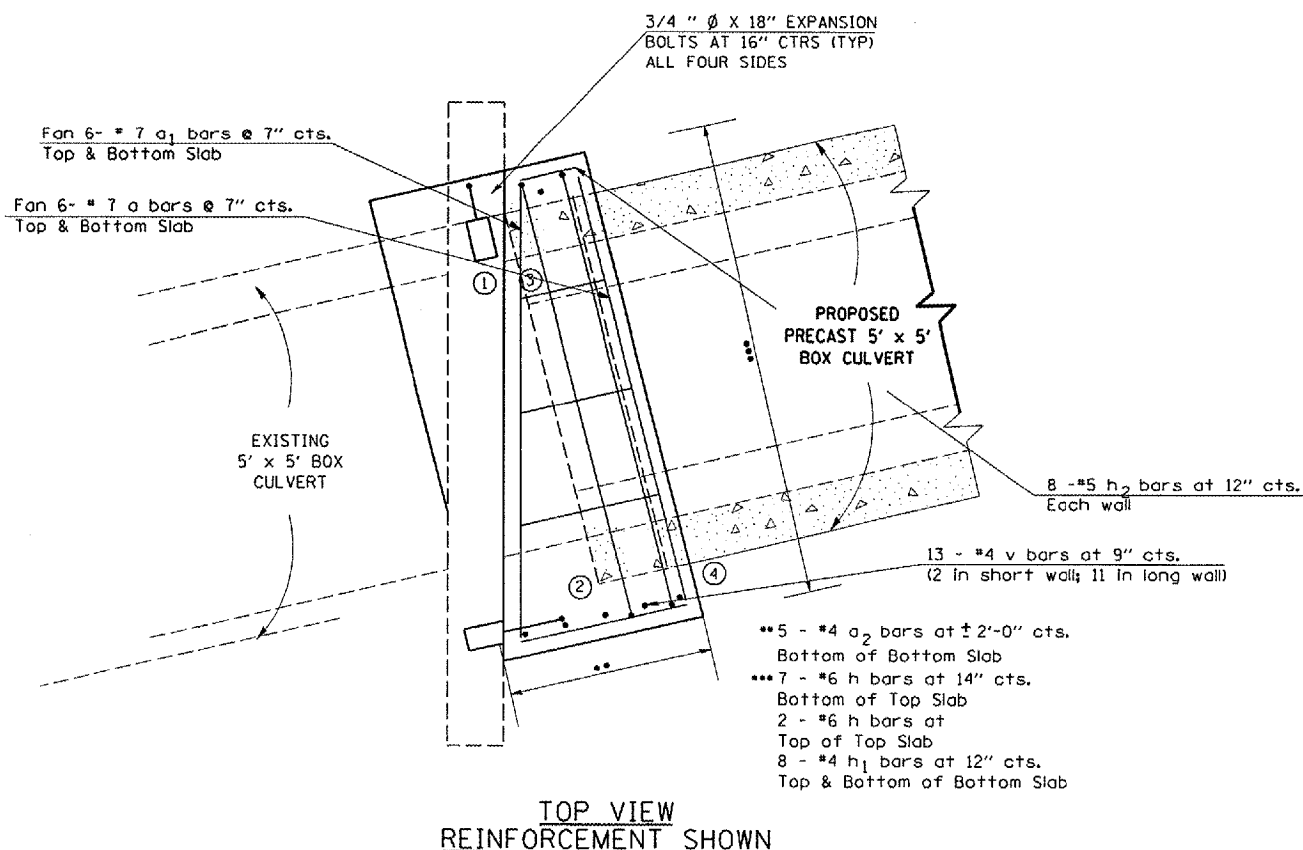
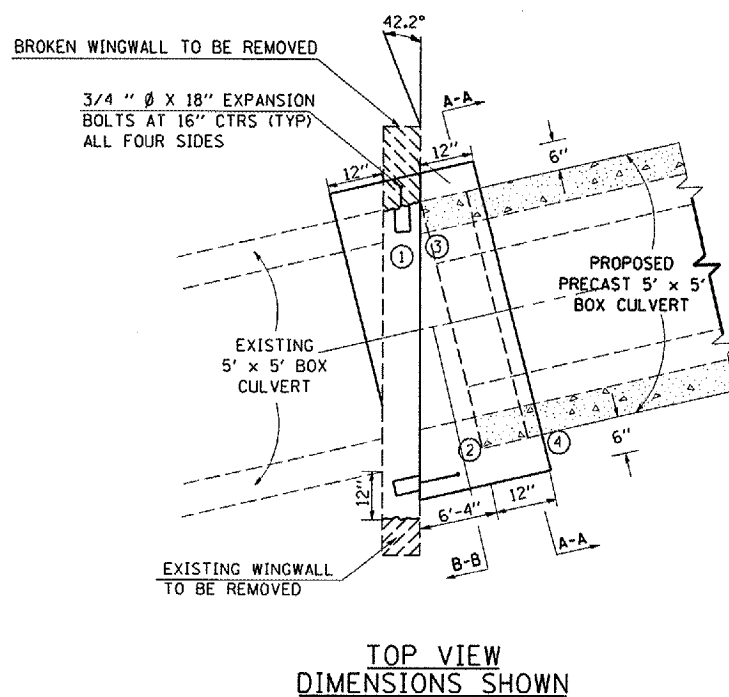
* DIMENSIONS ARE TO THE CENTER OF DETECTOR LOOPS

**CONCRETE COLLAR FOR
PRECAST BOX CULVERTS
STA. 752+80 RT SIDE**

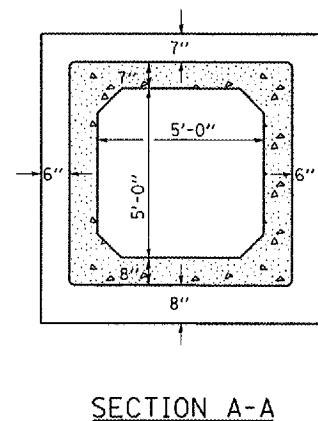
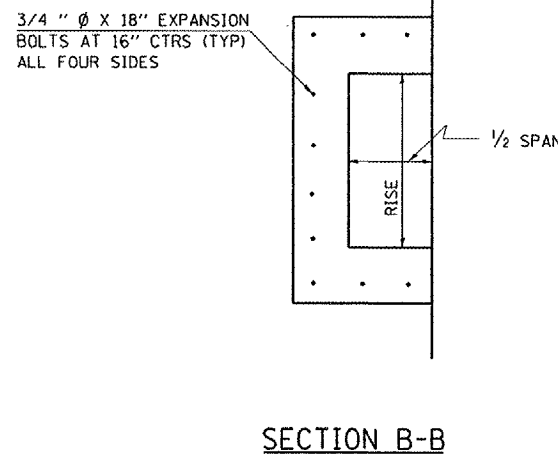
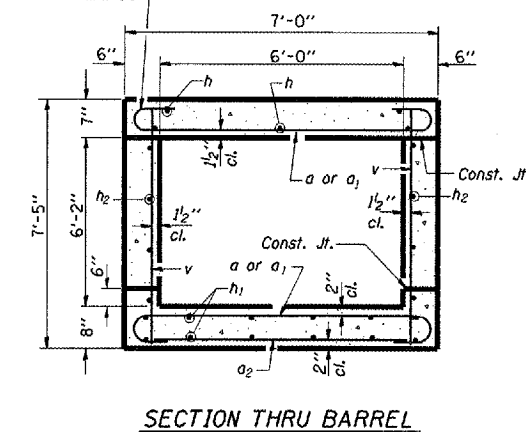


FIELD CUTTING DIAGRAM

Order h₁ bars full length. Cut as shown and use remainder of bars in opposite face.



Tilt hook of a₁ bars for 1 1/2" min. cl.



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	12	#7	8'-4"	C
a ₁	12	#7	10'-4"	C
a ₂	5	#4	9'-0"	—
h	9	#7	7'-0"	—
h ₁	8	#4	7'-8"	—
h ₂	8	#5	7'-8"	—
v	13	#4	7'-1"	—
Expansion Bolts 3/4"			Each	22
Concrete Box Culverts			Cu. Yd.	5.19
Reinforcement Bars			Pound	697

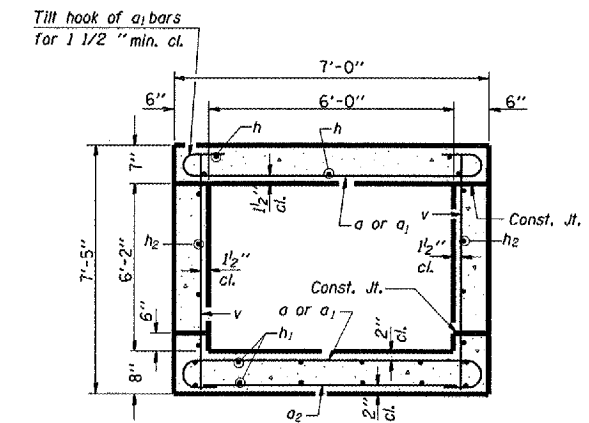
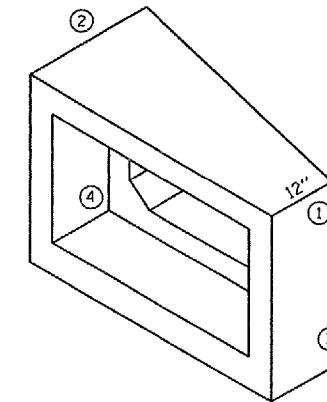
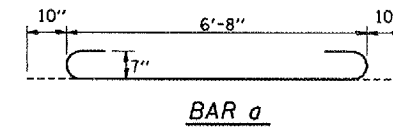
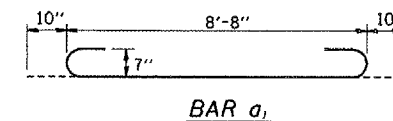
Cut a₂, h, h₁, and h₂ bars in the field to fit.

NOTES:

ANCHOR BOLTS, MEETING THE REQUIREMENTS OF ARTICLE 1006.09 OF THE STANDARD SPECIFICATIONS, SHALL EXTEND A MINIMUM OF 9 INCHES INTO THE NEW CONCRETE. EXPANSION SHIELDS SHALL PROVIDE A MINIMUM CERTIFIED PROOF LOAD OF 4080 POUNDS.

THE CONCRETE COLLAR SHALL NOT BE PAID FOR SEPARATELY WHEN CONSTRUCTED IN CONJUNCTION WITH PRECAST BOX CULVERTS, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PRECAST CONCRETE BOX CULVERTS. THIS PRICE SHALL INCLUDE THE EXPANSION BOLTS, CONCRETE, REINFORCEMENT BARS AND THE REMOVAL OF SUCH PORTIONS OF THE EXISTING HEADWALLS AND WINGWALLS AS MAY BE REQUIRED. CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

**CONCRETE COLLAR FOR
PRECAST BOX CULVERTS
STA. 752+51 LT SIDE**



BILL OF MATERIAL

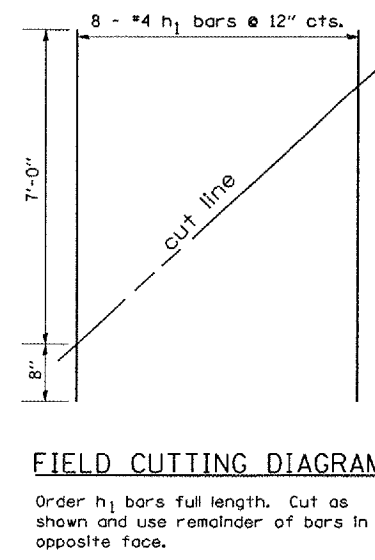
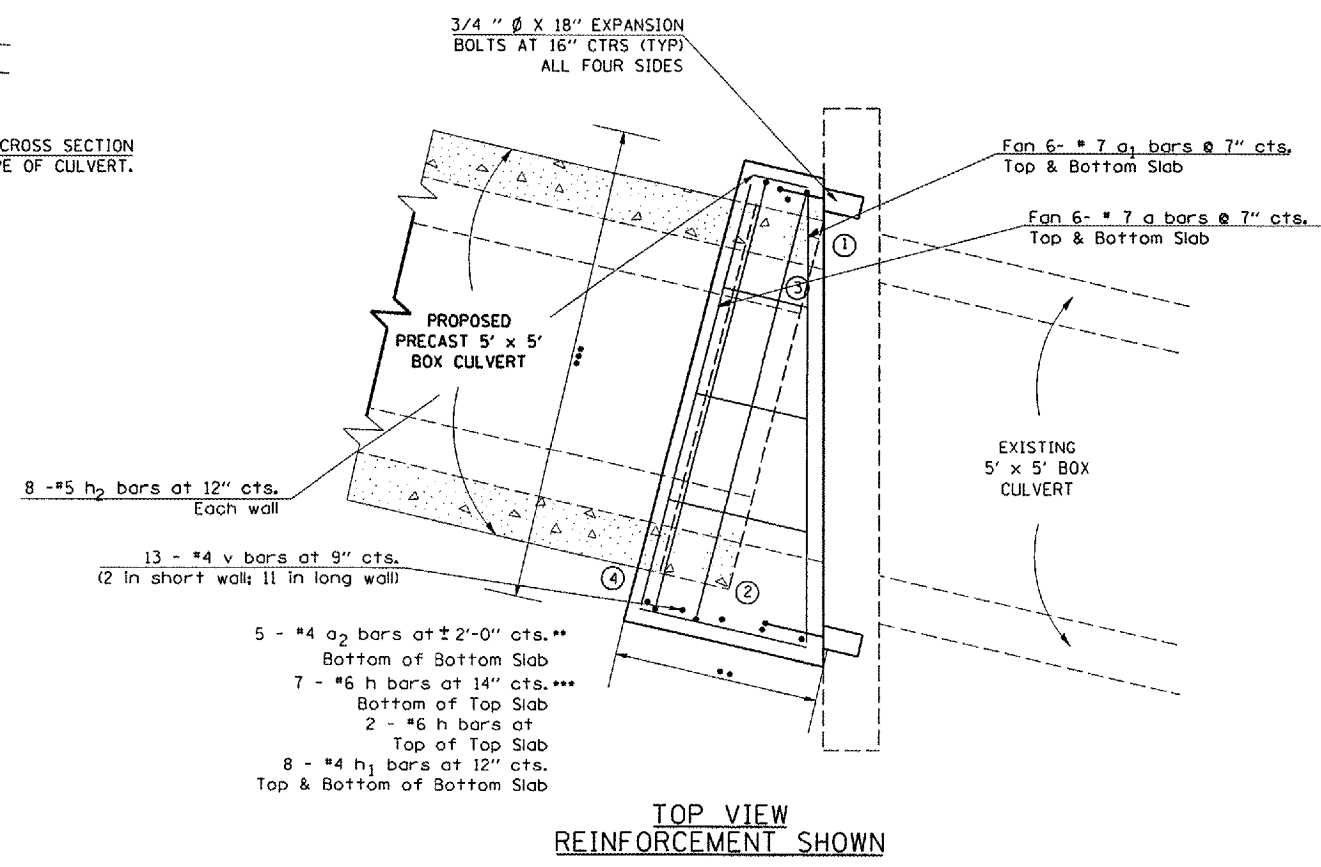
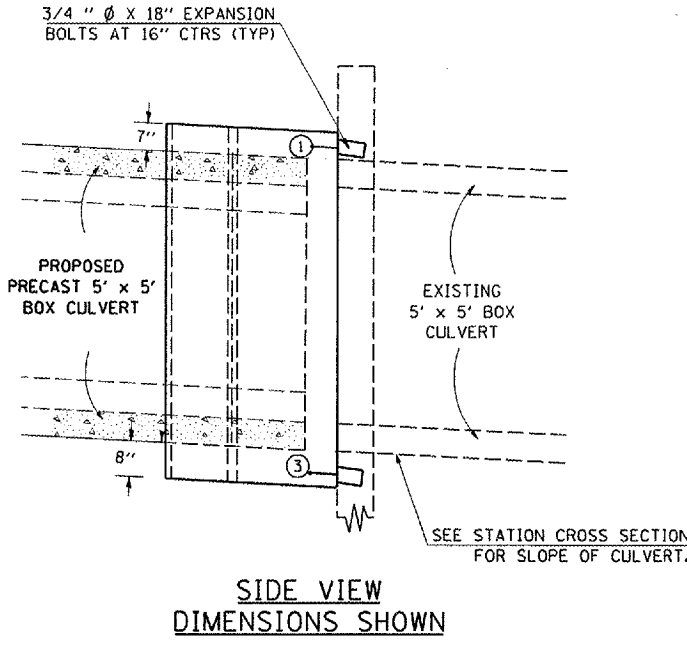
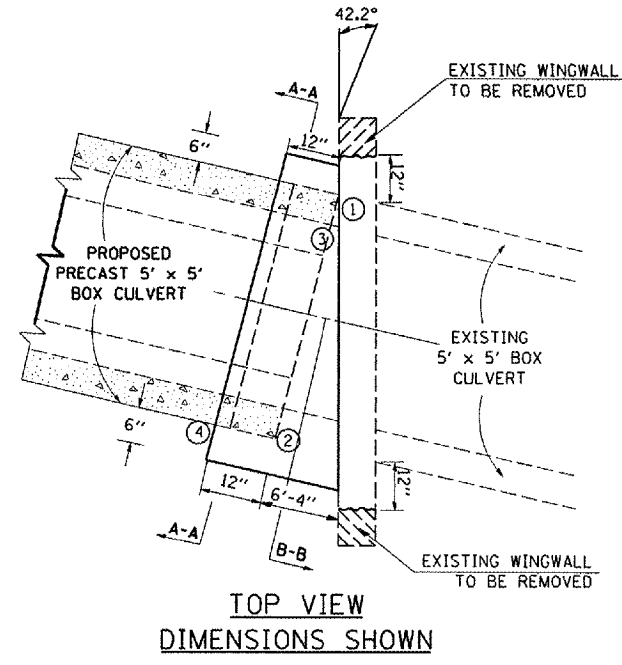
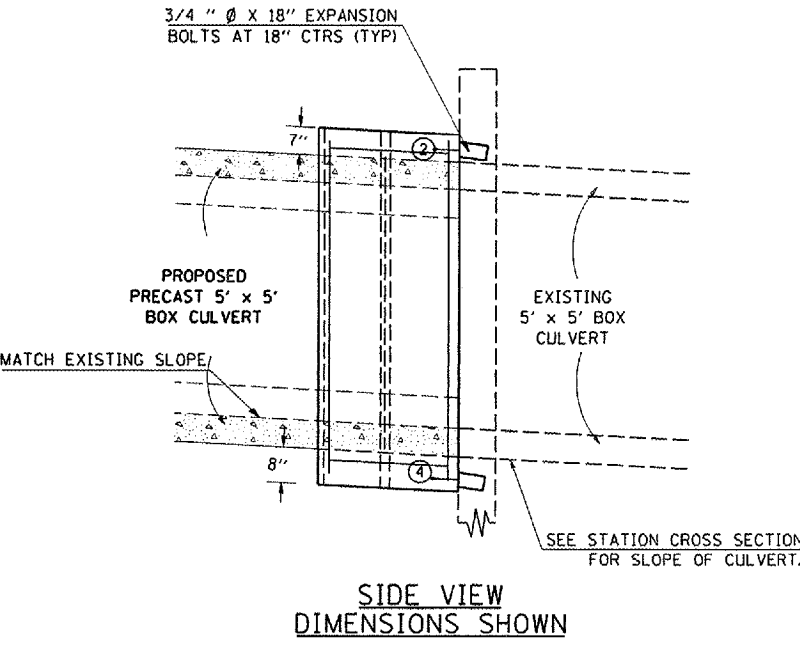
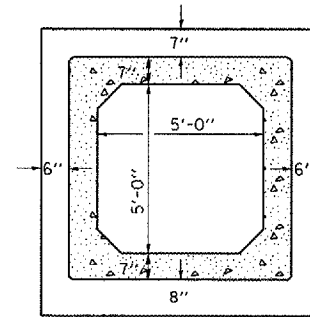
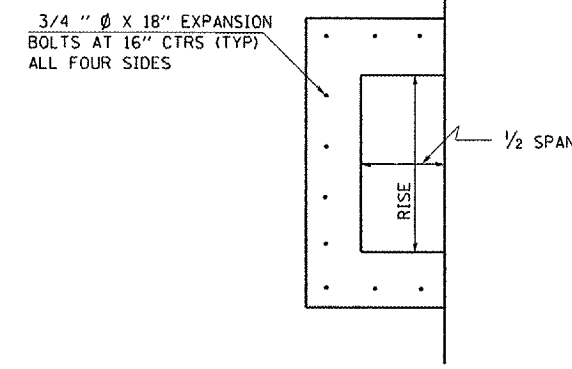
Bar	No.	Size	Length	Shape
a	12	#7	8'-4"	
a ₁	12	#7	10'-4"	
a ₂	5	#4	9'-0"	—
h	9	#7	7'-0"	—
h ₁	8	#4	7'-8"	—
h ₂	8	#5	7'-8"	—
v	13	#4	7'-1"	—
Expansion Bolts $\frac{3}{4}$ "		Each	18	
Concrete Box Culverts		Cu. Yd.	4.82	
Reinforcement Bars		Pound	697	

Cut a₂, h, h₁, and h₂ bars in the field to fit.

NOTES:

ANCHOR BOLTS, MEETING THE REQUIREMENTS OF ARTICLE 1006.09 OF THE STANDARD SPECIFICATIONS, SHALL EXTEND A MINIMUM OF 9 INCHES INTO THE NEW CONCRETE. EXPANSION SHIELDS SHALL PROVIDE A MINIMUM CERTIFIED PROOF LOAD OF 4080 POUNDS.

THE CONCRETE COLLAR SHALL NOT BE PAID FOR SEPARATELY WHEN CONSTRUCTED IN CONJUNCTION WITH PRECAST BOX CULVERTS, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PRECAST CONCRETE BOX CULVERTS. THIS PRICE SHALL INCLUDE THE EXPANSION BOLTS, CONCRETE, REINFORCEMENT BARS AND THE REMOVAL OF SUCH PORTIONS OF THE EXISTING HEADWALLS AND WINGWALLS AS MAY BE REQUIRED. CLASS SI CONCRETE SHALL BE USED THROUGHOUT.



DETAIL OF PRECAST CONCRETE BOX CULVERT SECTION

(WITH LESS THAN 2 FEET OF COVER
AASHTO DESIGNATION M273)
DESIGN LOADING: HS-20-44

VARIOUS ROUTES
D-9 CONT. MAINT. FY 06-3
VARIOUS CO.
CONTRACT #98924
SHEET 32 OF 42

GENERAL NOTES

SHOP PLANS FOR THE REINFORCEMENT SHALL BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 504.04 OF THE STANDARD SPECIFICATIONS.

MINIMUM CONCRETE STRENGTH SHALL BE 5000 PSI AFTER 28 DAYS.

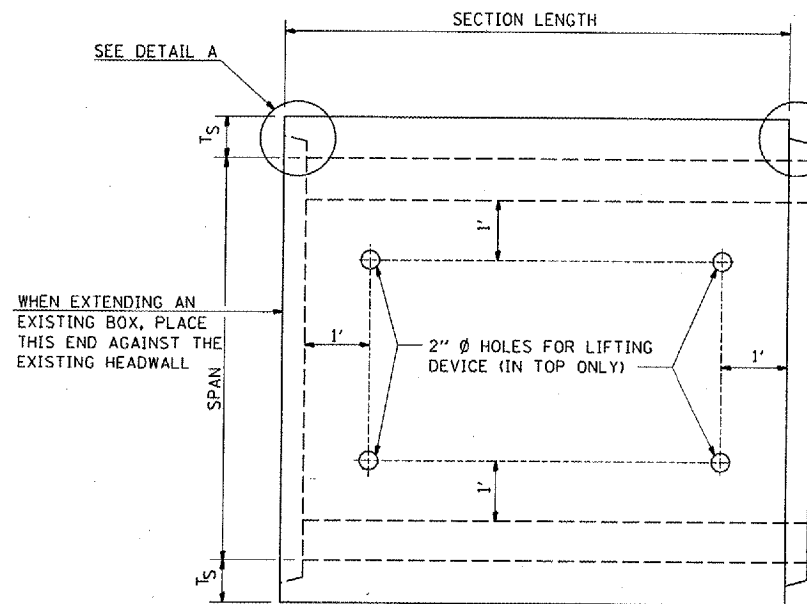
THE JOINTS OF THE PRECAST BOX SECTIONS SHALL BE SEALED WITH MASTIC IN ACCORDANCE WITH ARTICLE 1055 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

LIFTING HOLES SHALL BE FILLED WITH CONCRETE PLUGS AND MASTIC AFTER THE BOX SECTIONS ARE IN PLACE.

THE TERMS AS1, AS2, ETC. DENOTE THE REQUIRED STEEL AREAS FOR REINFORCEMENT AS SPECIFIED IN AASHTO M273.

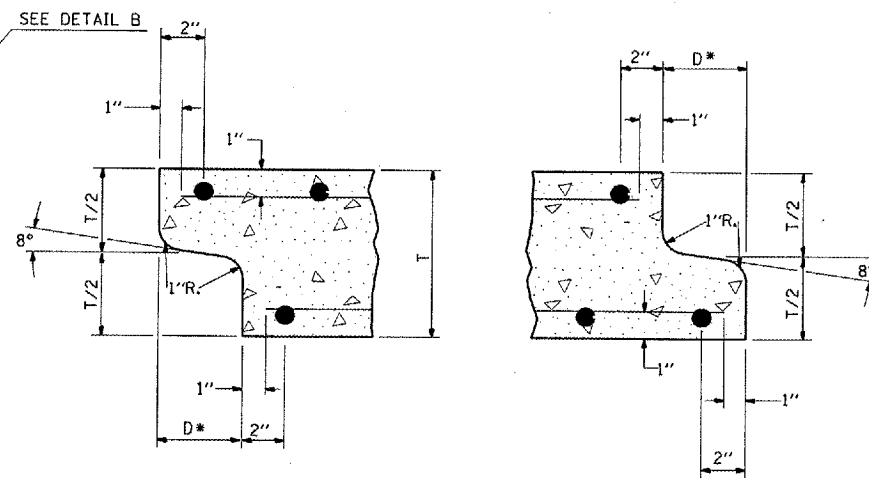
REINFORCEMENT SHALL BE WELDED WIRE FABRIC CONFORMING TO ASTM SPECIFICATIONS A 185 OR A 497. LONGITUDINAL DISTRIBUTION REINFORCEMENT MAY CONSIST OF WELDED WIRE FABRIC OR DEFORMED BILLET-STEEL BARS CONFORMING TO AASHTO M-31, M-42, GRADE 60.

DRAINAGE OPENINGS SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 503.12 OF THE STANDARD SPECIFICATIONS. LOCATION AND SPACING OF THE OPENINGS SHALL BE SHOWN ON THE SHOP DRAWINGS.



PLAN

LOCATION OF LIFTING HOLES MAY BE VARIED AS NEEDED TO CLEAR REINFORCEMENT.



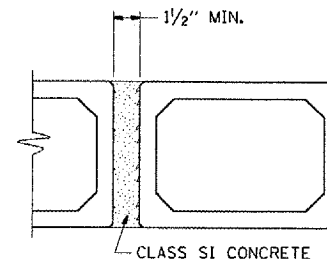
DETAIL A

(TYP. INLET END)

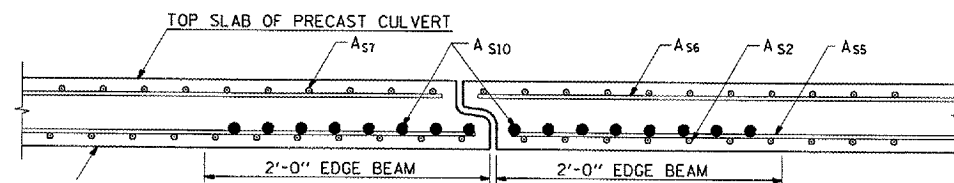
DETAIL B

(TYP. OUTLET END)

NOTE: INLET AND OUTLET ENDS SHALL BE COMPATIBLE.
* THE D DIMENSION SHALL CONFORM TO THE MANUFACTURER'S STANDARDS.

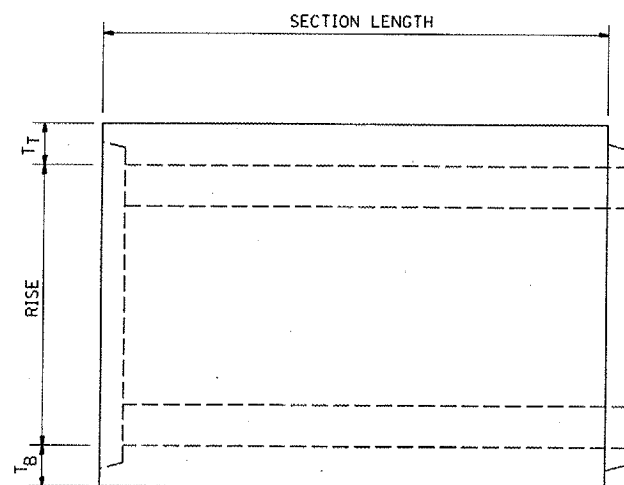


MULTIPLE UNIT PLACEMENT

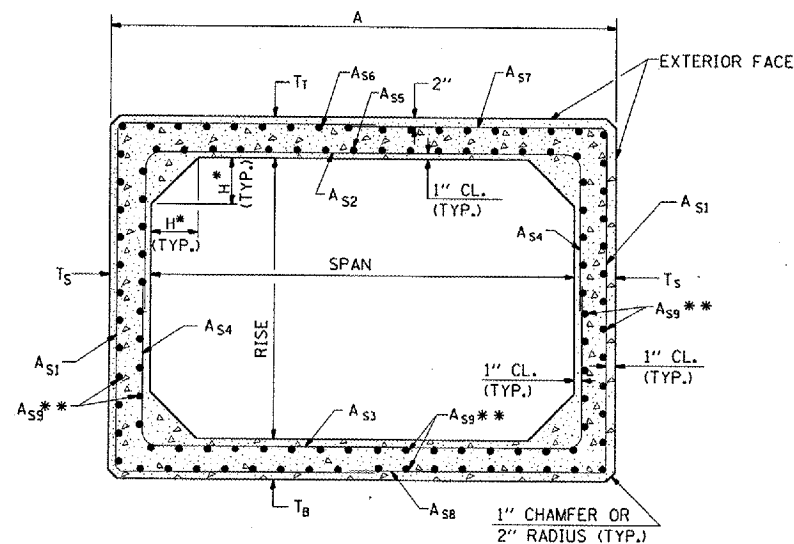


DETAIL OF EDGE BEAM

NOTE: THE AS10 REINFORCEMENT SHALL BE THE SAME LENGTH AS THE AS2.



ELEVATION



CROSS SECTION

* THE HAUNCH DIMENSION, H, IS EQUAL TO THE WALL THICKNESS, T_S.
** THE AREA OF AS9 REINFORCEMENT SHALL BE BE A MINIMUM OF 0.12 SQ. IN./FT.

DIMENSIONS & EDGE BEAM REINFORCEMENT

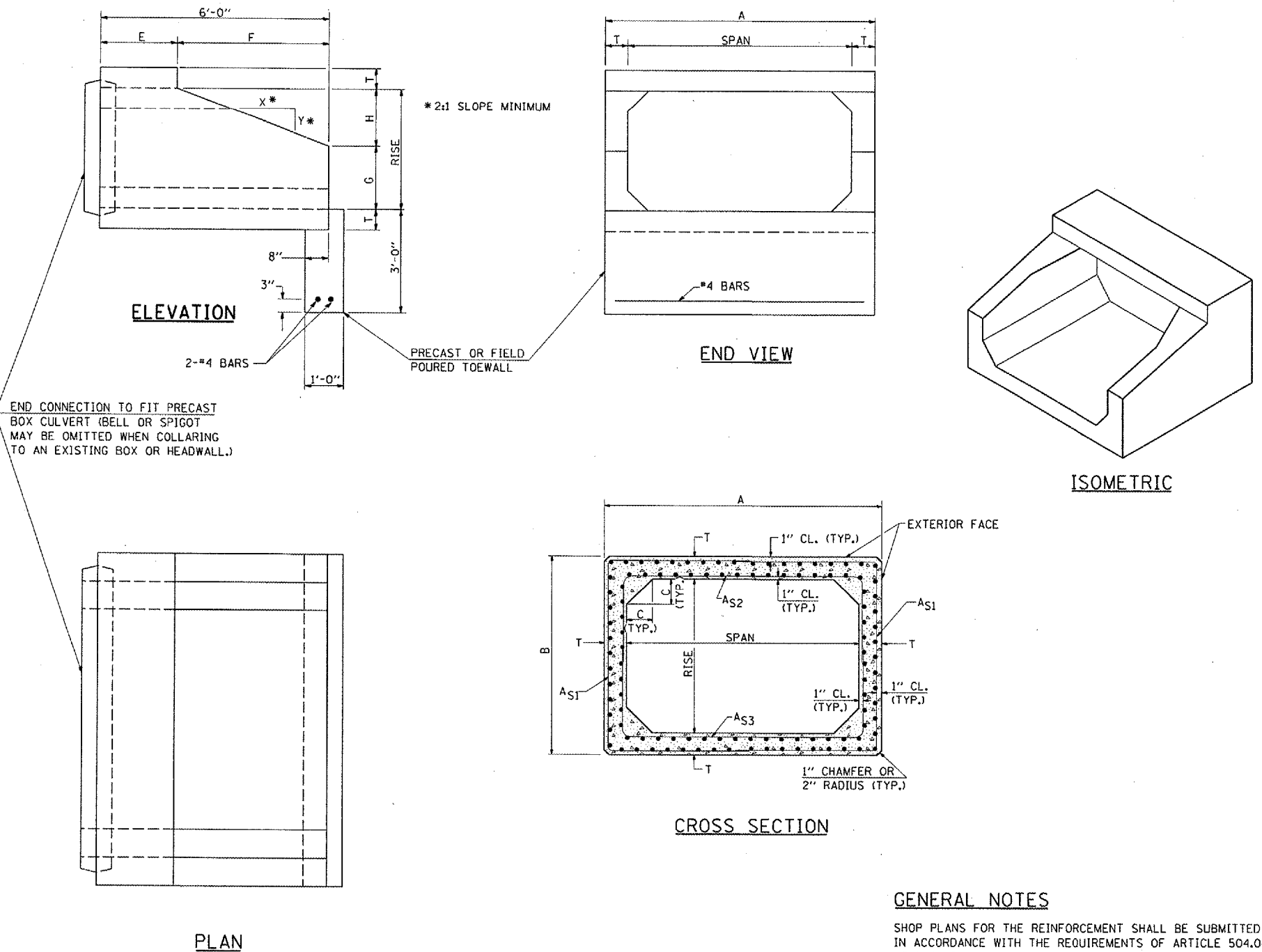
SPAN X RISE	DIMENSIONS (INCHES)			EDGE BEAM REINF. AREA (IN ² /FT.) A _{S10}
	T _T	T _B	T _S	
3' X 2'	7	6	4	0.42
3' X 3'	7	6	4	0.42
4' X 2'	7 1/2	6	5	0.59
4' X 3'	7 1/2	6	5	0.59
4' X 4'	7 1/2	6	5	0.59
5' X 3'	8	7	6	0.59
5' X 4'	8	7	6	0.59
5' X 5'	8	7	6	0.59
6' X 3'	8	7	7	0.73
6' X 4'	8	7	7	0.73
6' X 5'	8	7	7	0.73
6' X 6'	8	7	7	0.73
7' X 4'	8	8	8	0.85
7' X 5'	8	8	8	0.85
7' X 6'	8	8	8	0.85
7' X 7'	8	8	8	0.85
8' X 4'	8	8	8	1.00
8' X 5'	8	8	8	1.00
8' X 6'	8	8	8	1.00
8' X 7'	8	8	8	1.00
8' X 8'	8	8	8	1.00

SPAN X RISE	DIMENSIONS (INCHES)			EDGE BEAM REINF. AREA (IN ² /FT.) A _{S10}
	T _T	T _B	T _S	
9' X 5'	9	9	9	1.00
9' X 6'	9	9	9	1.00
9' X 7'	9	9	9	1.00
9' X 8'	9	9	9	1.00
9' X 9'	9	9	9	1.00
10' X 5'	10	10	10	0.89
10' X 6'	10	10	10	0.89
10' X 7'	10	10	10	0.89
10' X 8'	10	10	10	0.89
10' X 9'	10	10	10	0.89
10' X 10'	10	10	10	0.89
11' X 4'	11	11	11	0.89
11' X 6'	11	11	11	0.89
11' X 8'	11	11	11	0.89
11' X 10'	11	11	11	0.89
11' X 11'	11	11	11	0.89
12' X 4'	12	12	12	0.89
12' X 6'	12	12	12	0.89
12' X 8'	12	12	12	0.89
12' X 10'	12	12	12	0.89
12' X 12'	12	12	12	0.89

DIMENSIONS **

SPAN X RISE	T (INCHES)	A (FT.-IN.)	B (FT.-IN.)	C (INCHES)	E (FT.-IN.)	F (FT.-IN.)	G (FT.-IN.)	H (FT.-IN.)	SLOPE (X:Y)
2' X 2'	4	2-8	2-8	4	3-0	3-0	1-0	1-0	3:1
3' X 2'	4	3-8	2-8	4	3-0	3-0	1-0	1-0	3:1
3' X 3'	4	3-8	3-8	4	2-0	4-0	1-8	1-4	3:1
4' X 2'	5	4-10	2-10	5	3-0	3-0	1-0	1-0	3:1
4' X 3'	5	4-10	3-10	5	2-0	4-0	1-8	1-4	3:1
4' X 4'	5	4-10	4-10	5	2-0	4-0	2-0	2-0	2:1
5' X 2'	6	6-0	3-0	6	3-0	3-0	1-0	1-0	3:1
5' X 3'	6	6-0	4-0	6	2-0	4-0	1-8	1-4	3:1
5' X 4'	6	6-0	5-0	6	2-0	4-0	2-0	2-0	2:1
5' X 5'	6	6-0	6-0	6					
6' X 2'	7	7-2	3-2	7	3-0	3-0	1-0	1-0	3:1
6' X 3'	7	7-2	4-2	7	2-0	4-0	1-8	1-4	3:1
6' X 4'	7	7-2	5-2	7	2-0	4-0	2-0	2-0	2:1
6' X 5'	7	7-2	6-2	7	2-0	4-0	3-0	2-0	2:1
6' X 6'	7	7-2	7-2	7	2-0	4-0	4-0	2-0	2:1
7' X 4'	8	8-4	5-4	8	2-0	4-0	2-0	2-0	2:1
7' X 5'	8	8-4	6-4	8					
7' X 6'	8	8-4	7-4	8					
7' X 7'	8	8-4	8-4	8					
8' X 4'	8	9-4	5-4	8	2-0	4-0	2-0	2-0	2:1
8' X 5'	8	9-4	6-4	8					
8' X 6'	8	9-4	7-4	8					
8' X 7'	8	9-4	8-4	8					
8' X 8'	8	9-4	9-4	8					
9' X 5'	9	10-6	6-6	9					
9' X 6'	9	10-6	7-6	9					
9' X 7'	9	10-6	8-6	9					
9' X 8'	9	10-6	9-6	9					
9' X 9'	9	10-6	10-6	9					
10' X 5'	10	11-8	6-8	10					
10' X 6'	10	11-8	7-8	10					
10' X 7'	10	11-8	8-8	10					
10' X 8'	10	11-8	9-8	10					
10' X 9'	10	11-8	10-8	10					
10' X 10'	10	11-8	11-8	10					
11' X 4'	11	12-10	5-10	11					
11' X 6'	11	12-10	7-10	11					
11' X 8'	11	12-10	9-10	11					
11' X 10'	11	12-10	11-10	11					
11' X 11'	11	12-10	12-10	11					
12' X 4'	12	14-0	6-0	12					
12' X 6'	12	14-0	8-0	12					
12' X 8'	12	14-0	10-0	12					
12' X 10'	12	14-0	12-0	12					
12' X 12'	12	14-0	14-0	12					

DETAIL OF PRECAST CONCRETE BOX CULVERT END SECTION



VARIOUS ROUTES
D-9 CONT. MAINT. FY 06-3
VARIOUS CO.
CONTRACT #98924
SHEET 33 OF 42

**** NOTE:**

THE DIMENSIONS INDICATED ARE FOR END SECTIONS THAT ARE TO BE USED WITH PRECAST BOX CULVERT SECTIONS DESIGNED FOR 2' OR MORE OF FILL. THE DIMENSIONS MUST BE MODIFIED FOR THE END SECTION TO BE COMPATIBLE WITH PRECAST CULVERT SECTIONS DESIGNED FOR LESS THAN 2' OF FILL.

GENERAL NOTES

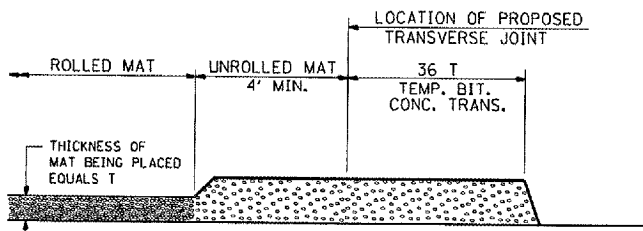
SHOP PLANS FOR THE REINFORCEMENT SHALL BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 504.04(a) OF THE STANDARD SPECIFICATIONS.

MINIMUM CONCRETE STRENGTH SHALL BE 5000 PSI AFTER 28 DAYS.

THE JOINTS OF THE PRECAST BOX SECTIONS SHALL BE SEALED WITH MASTIC IN ACCORDANCE WITH ARTICLE 1055.01 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

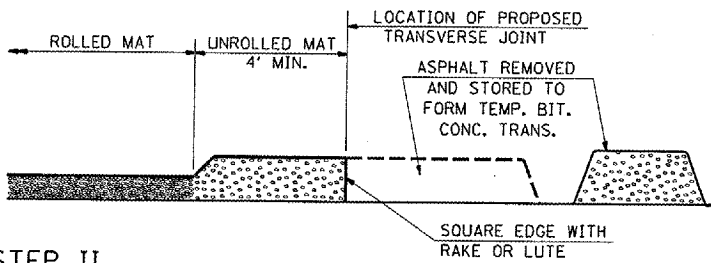
THE TERMS AS1, AS2, & AS3 DENOTE THE REQUIRED STEEL AREAS FOR REINFORCEMENT AS SPECIFIED IN AASHTO M259. REINFORCEMENT SHALL BE WELDED WIRE FABRIC CONFORMING TO AASHTO M55-81.

TEMPORARY BITUMINOUS CONCRETE TRANSITIONS



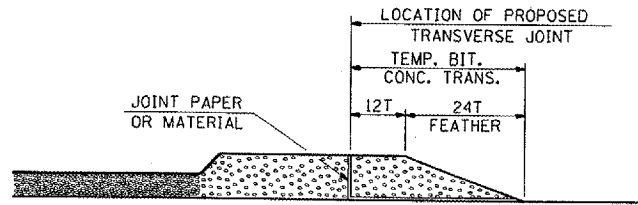
STEP I

1. PLACE BITUMINOUS MAT, LENGTH 36 TIMES THE THICKNESS OF THE MAT BEING PLACED PAST THE PROPOSED TRANSVERSE JOINT LOCATION USING NORMAL OPERATING PROCEDURES.
2. EXTREME CARE SHOULD BE TAKEN TO MAINTAIN ENOUGH MATERIAL IN FRONT OF THE SCREED TO MAINTAIN REQUIRED PAVING DEPTH.



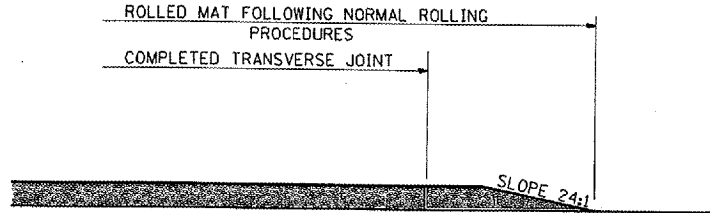
STEP II

1. MOVE THE PAVER OUT OF THE WAY AND REMOVE THE ASPHALT FROM THE AREA OF THE PROPOSED TEMPORARY BITUMINOUS CONCRETE TRANSITION.
2. SQUARE UP THE END OF THE MAT WITH A RAKE OR LUTE.
3. NOTE THAT THE MAT WITHIN 4' OF THE END OF JOINT IS NOT TO BE ROLLED AT THIS TIME.



STEP III

1. JOINT PAPER OR OTHER PRESELECTED JOINT MATERIAL IS THEN PLACED IN THE CLEARED AREA AND THE EXCESS ASPHALT USED TO HAND FORM A TRANSITION TO THE DIMENSIONS SHOWN ABOVE.
2. NOTE THAT IN CONSTRUCTING THE TRANSITION, THE MAT DEPTH IS CONTINUED AS PART OF THE TRANSITION BEFORE FORMING THE FEATHER.



STEP IV

1. COMPLETE TEMPORARY TRANSITION BY ROLLING.
2. TO RESUME PAVING, AT THE JOINT, REMOVE TEMPORARY TRANSITION AND DISPOSE OF THE MATERIAL ACCORDING TO ART. 202.03 OF THE STD. SPECS. (COST INCLUDED IN THE CONTRACT).
3. CONSTRUCTING THE TEMPORARY TRANSITIONS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE BITUMINOUS MATERIAL BEING PLACED.

REVISIONS

REDRAWN	2-15-89
REVISED	8-16-94
REVISED	
REVISED	

STD. 9-26

ILLINOIS STANDARD

W8-1106

VARIOUS ROUTES
D-9 CONT. MAINT. FY 06-3
VARIOUS CO.
CONTRACT #98924
SHEET 34 OF 42

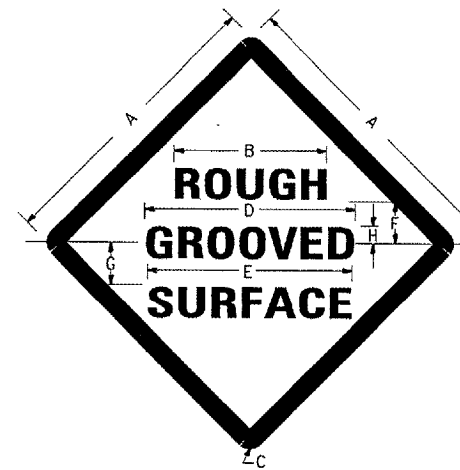
COLORS:

LEGEND AND BORDER- BLACK NON-REFLECTORIZED
BACKGROUND- ORANGE REFLECTORIZED

SIGN SIZE	DIMENSIONS							
	A	B	C	D	E	F	G	H
48X48	48.0	24.1	3.0	34.0	33.0	6.0	13.0	3.5

SIGN SIZE	SERIES LINES			MAR-GIN	BOR-DER	BLANK STD.
	1	2	3			
48X48	7C	7C	7C	0.8	1.2	B4-48D

ALL DIMENSIONS IN INCHES



NOTES:

PRIOR TO ALLOWING TRAFFIC ON ANY PORTION OF THE ROADWAY THAT HAS BEEN COLDMILLED, THE CONTRACTOR SHALL HAVE ERECTED "ROUGH GROOVED SURFACE" SIGNS THAT CONFORM TO THE ABOVE DETAILS. A MINIMUM OF ONE SIGN AT EACH END OF THE IMPROVEMENT WILL BE REQUIRED. THE CONTRACTOR SHALL MAINTAIN THE "ROUGH GROOVED SURFACE" SIGNS UNTIL THE COLDMILLED SURFACE IS COVERED WITH LEVELING BINDER OR SURFACE COURSE.

IF AT ANY TIME THE SIGNS ARE IN PLACE BUT NOT APPLICABLE, THEY SHALL BE TURNED FROM THE VIEW OF MOTORISTS OR COVERED AS DIRECTED BY THE ENGINEER. THE COST OF FURNISHING, ERECTING, MAINTAINING, AND REMOVING THE REQUIRED SIGNS SHALL BE INCLUDED IN THE CONTRACT.

REVISIONS

REDRAWN	2-15-89
REVISED	4-6-93
REVISED	
REVISED	

STD. 9-39

DETAIL OF DETECTOR LOOPS

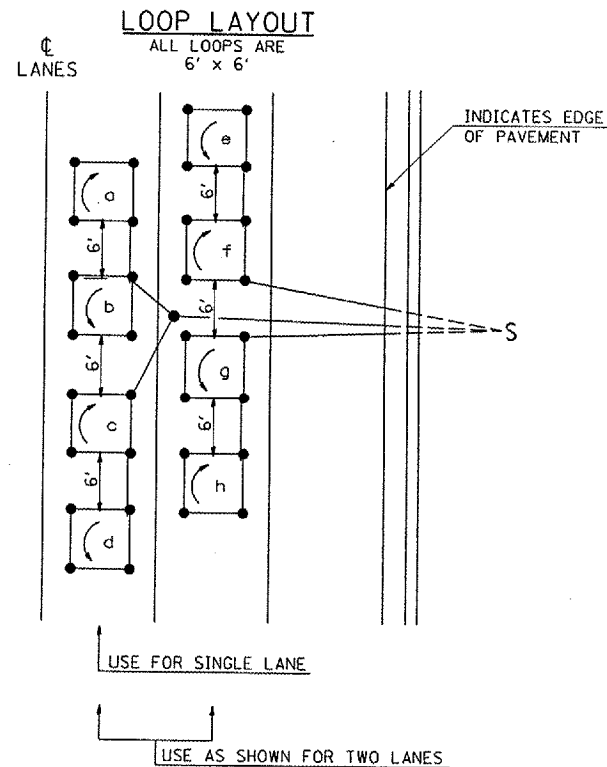
NOTES

(APPLIES TO 6' x 6' LOOPS ONLY)

1. THE DETECTOR LOOPS SHALL BE TYPE I. EACH DETECTOR LOOP SHALL HAVE 3 TURNS OF LOOP WIRE AND BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 886 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
2. BEGINNING LEAD WIRES SHALL BE CONNECTED TO THE BLACK LEAD AND THE ENDING LEAD WIRES SHALL BE CONNECTED TO THE WHITE LEAD OF THE TWIN TWISTED FEED CABLES AT THE SPLICE POINT.
3. WHERE THE LOOPS ARE INSTALLED PRIOR TO RESURFACING, THE LOOP CORNERS SHALL BE DIAGONALLY CUT.

LOOP LEGEND

- () CLOCKWISE ROTATION FOR LOOP WIRES
- () COUNTERCLOCKWISE ROTATION FOR LOOP WIRES
- S INDICATES SPLICE POINT FOR DETECTOR LOOP LEAD
- INDICATES 2" CORE-DRILL



DETAIL 6' x 6' DETECTOR LOOPS

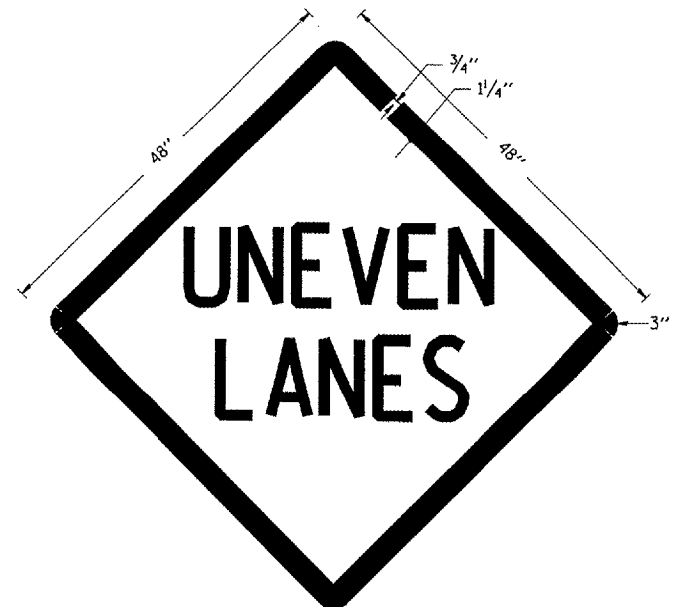
REVISIONS

REDRAWN	5-13-02
REVISED	
REVISED	
REVISED	

STD. 9-92

UNEVEN LANES SIGN

W8-11 (48" x 48")



COLORS:

LEGEND AND BORDER - BLACK NON-REFLECTORIZED
BACKGROUND - ORANGE REFLECTORIZED

NOTE: PRIOR TO ALLOWING TRAFFIC ON ANY PORTION OF THE ROADWAY THAT HAS BEEN COLDMILLED OR BEFORE RESURFACING OPERATIONS BEGIN, THE CONTRACTOR SHALL HAVE ERECTED "UNEVEN PAVEMENT" SIGNS THAT CONFORM TO THE ABOVE DETAILS. A MINIMUM OF ONE SIGN AT EACH END OF THE IMPROVEMENT WILL BE REQUIRED. THE CONTRACTOR SHALL MAINTAIN THE "UNEVEN PAVEMENT" SIGNS UNTIL THE RESURFACING OPERATIONS ARE COMPLETED.

IF AT ANY TIME THE SIGNS ARE IN PLACE BUT NOT APPLICABLE, THEY SHALL BE TURNED FROM THE VIEW OF MOTORISTS OR COVERED AS DIRECTED BY THE ENGINEER.

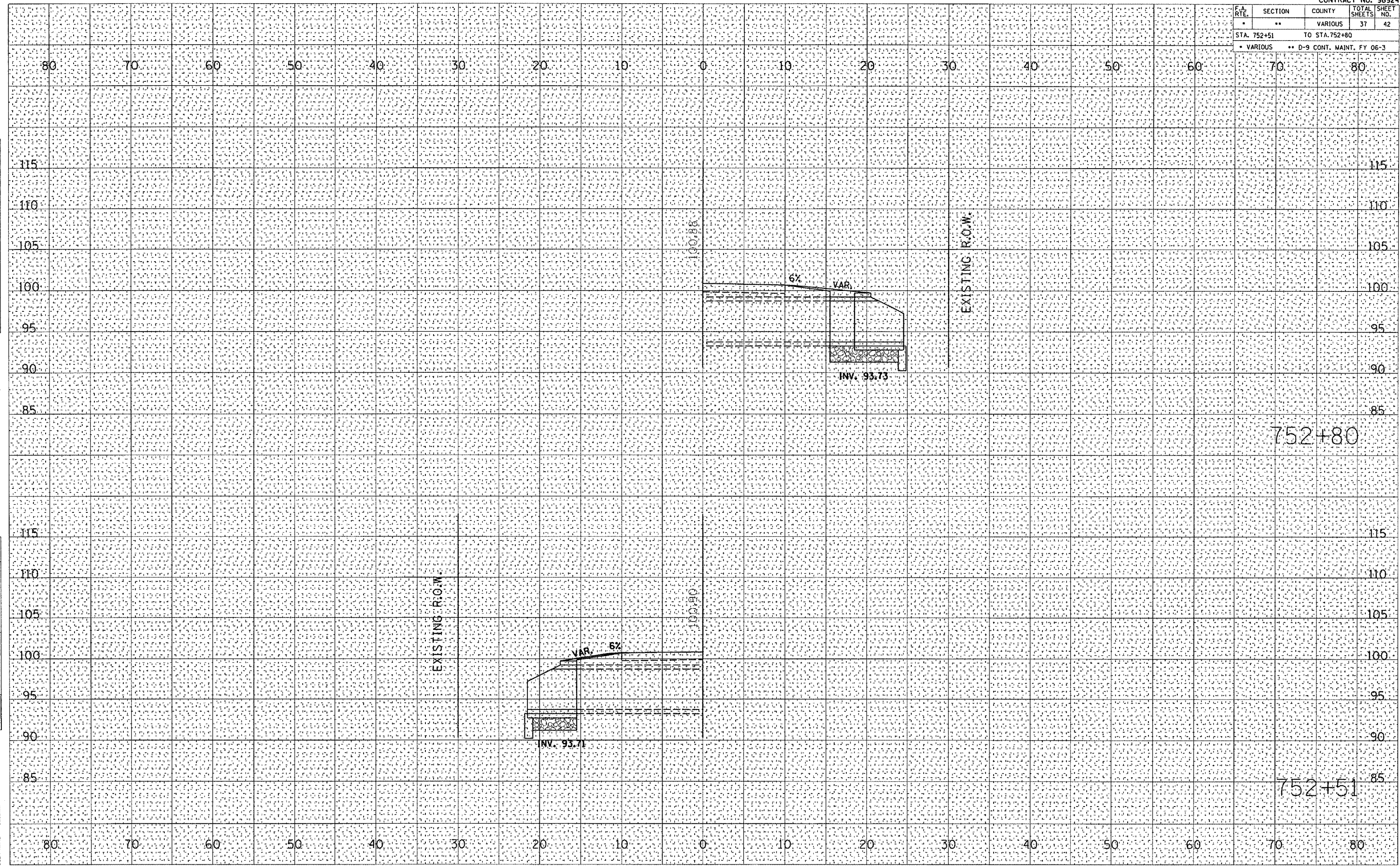
THE COST OF FURNISHING, ERECTING, MAINTAINING, AND REMOVING THE REQUIRED SIGNS SHALL BE INCLUDED IN THE CONTRACT.

REVISIONS

DRAWN	2-15-89
REVISED	4-6-93
REDRAWN	7-23-04
REVISED	

STD. 9-41

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	VARIOUS	37	42
STA. 752+51 TO STA. 752+80			* VARIOUS ** D-9 CONT. MAINT. FY 06-3	



DATE	
BY	
FINAL SURVEY	
NOTED	
NO. 1	

DATE	
BY	
ORIGINAL SURVEY	
NOTED	
NO. 1	

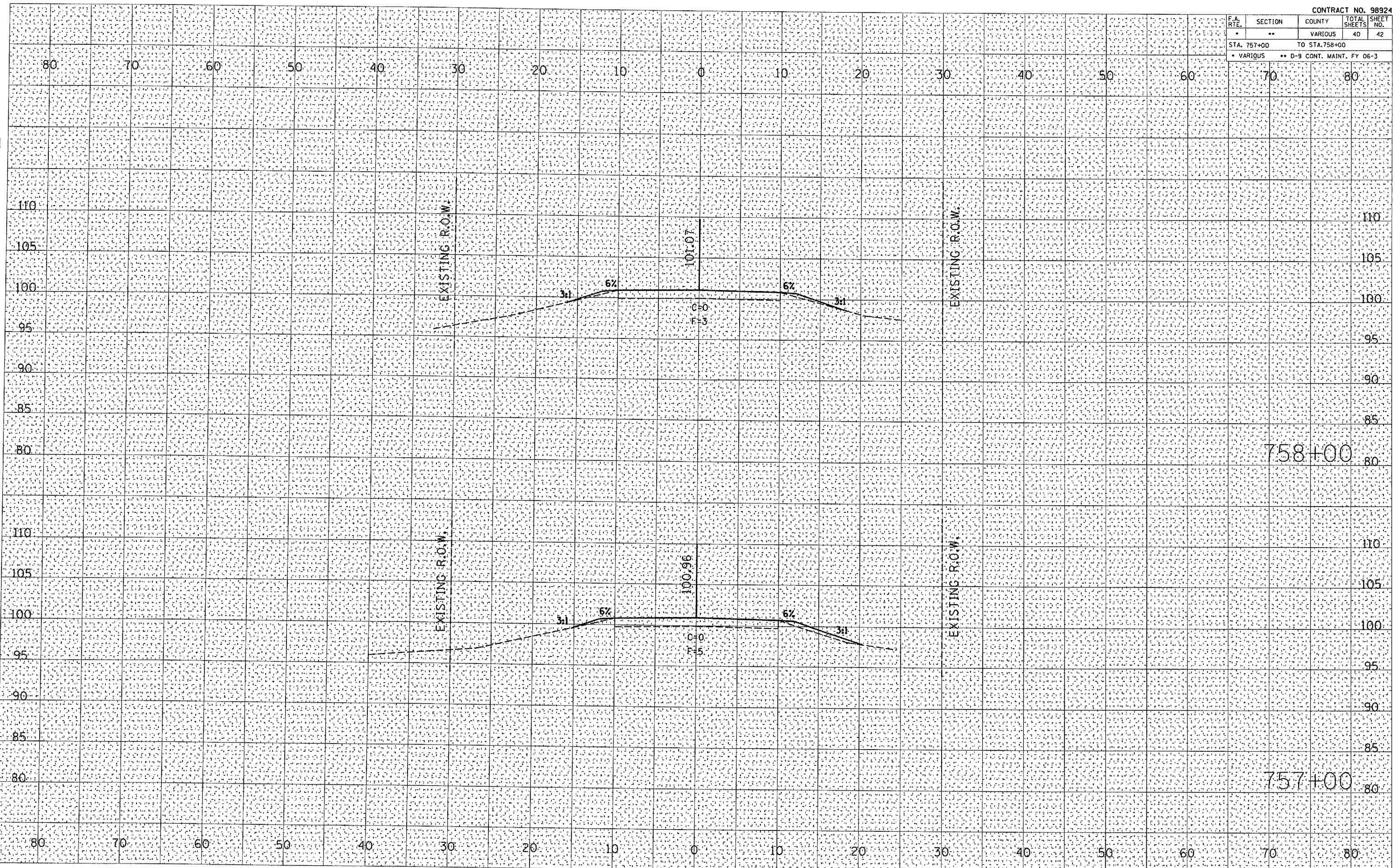
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 FILE NAME = c:\pwworkspace\98924\98924.dwg
 PLOT SCALE = 1/8" = 1' IN.
 USER NAME = colenn

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	VARIOUS	40	42
STA. 757+00 TO STA. 758+00				
* VARIOUS ** D-9 CONT. MAINT. FY 06-3				

DATE	
BY	
REVIEWED	
DESIGNED	
CHECKED	
DATE	
BY	
REVIEWED	
DESIGNED	
CHECKED	
DATE	
BY	
REVIEWED	
DESIGNED	
CHECKED	
DATE	
BY	
REVIEWED	
DESIGNED	
CHECKED	

DATE	
BY	
REVIEWED	
DESIGNED	
CHECKED	
DATE	
BY	
REVIEWED	
DESIGNED	
CHECKED	
DATE	
BY	
REVIEWED	
DESIGNED	
CHECKED	
DATE	
BY	
REVIEWED	
DESIGNED	
CHECKED	

PLOT DATE = 9/26/2005
 FILE NAME = c:\projects\98924\98924.dwg
 USER NAME = jh
 PLOT SCALE = 1/8" = 1' IN.

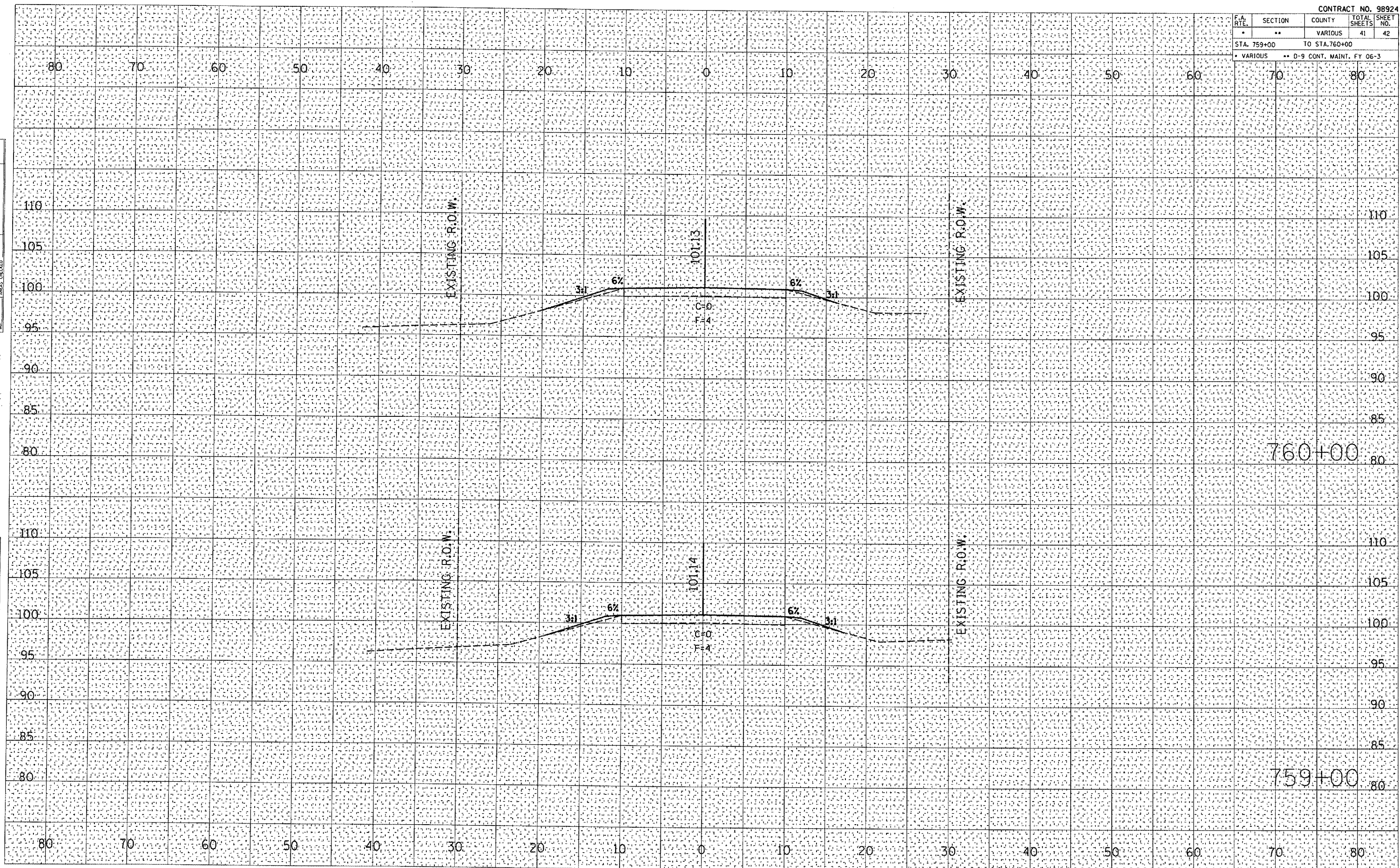


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	••	VARIOUS	41	42
STA. 759+00 TO STA.760+00				
• VARIOUS			•• D-9 CONT. MAINT. FY 06-3	

DATE	
BY	
FINAL SURVEY	
NOTED	
NOTE BOOK	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTED	
NOTE BOOK	
NO.	

PLOT DATE = 9/25/2005
 FILE NAME = c:\p\met\9825\985\resosheet\...
 USER NAME = 640mm



F.A. RY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	VARIOUS	42	42

STA. 761+00 TO STA. 762+00
 * VARIOUS ** D-9 CONT. MAINT. FY 06-3

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
TEMP. PLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
TEMP. PLATE	
AREAS CHECKED	
NO.	

PLOT DATE = 9/26/2005
 PLOT SCALE = 1" = 50' / IN.
 USER NAME = colbenn

