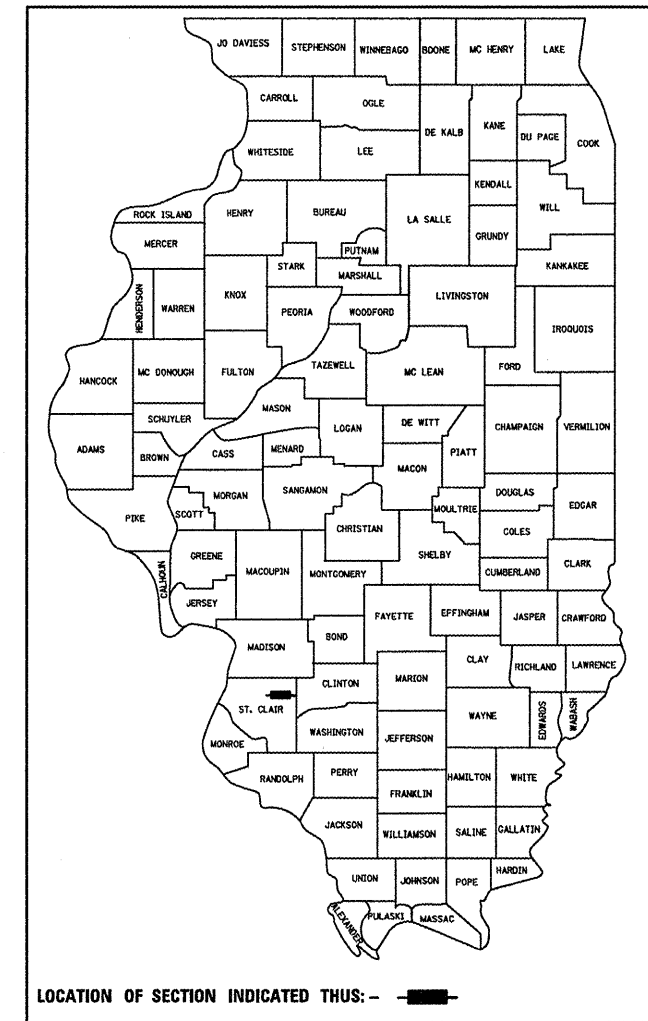


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	31RS-3	ST. CLAIR	12	1
ILLINOIS CONTRACT NO. 76E87				

D-98-047-11



ADT 14,900 (2012)  
ADT 17,100 (2032)  
SU 2.2%  
MU 3.8%

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED March 20 20 12

*John D. Paranzelli*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION 5-ENGINEER

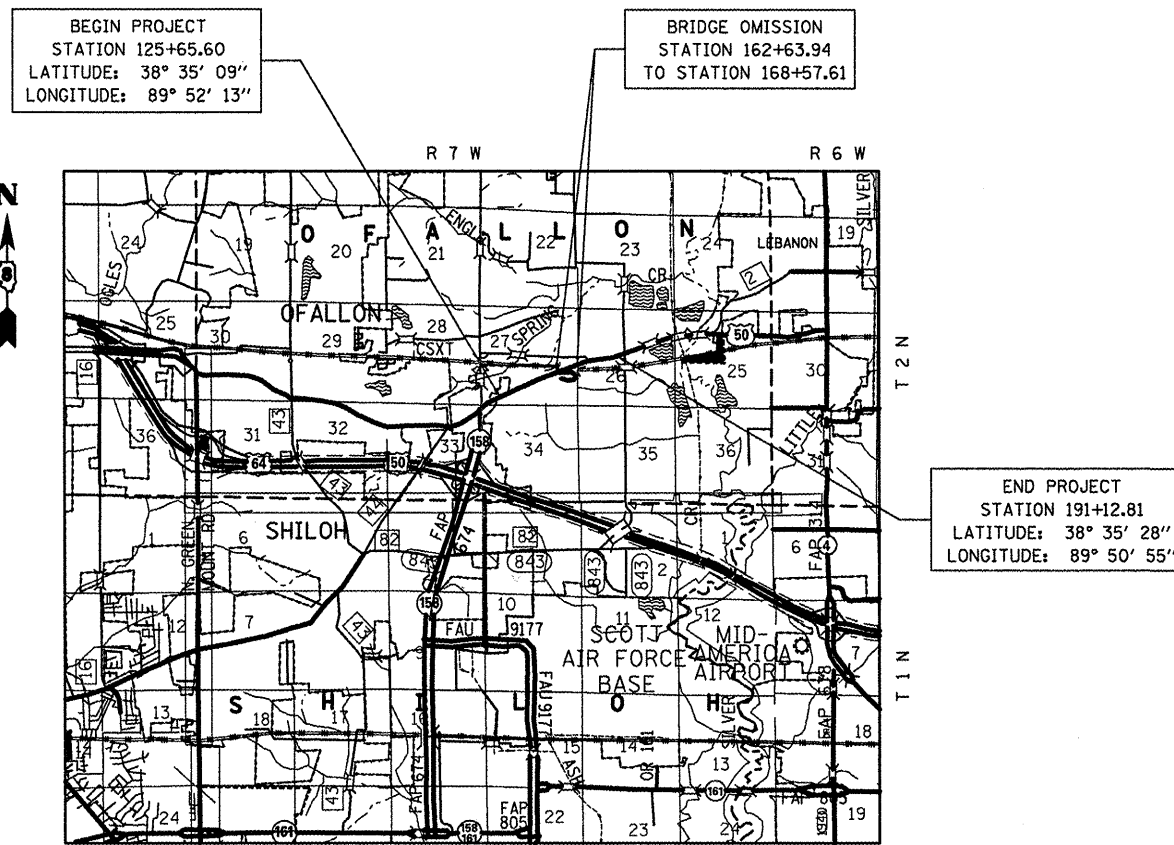
May 11 20 12  
*John D. Paranzelli, P.E.*  
ENGINEER OF DESIGN AND ENVIRONMENT

May 11 20 12  
*William R. Freyler*  
ACTING DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

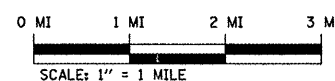
PROPOSED  
HIGHWAY PLANS

FAP ROUTE 674 (US 50)  
SECTION 31RS-3  
PROJECT F-0674(007)  
ST. CLAIR COUNTY  
MILLING AND RESURFACING  
C-98-048-11



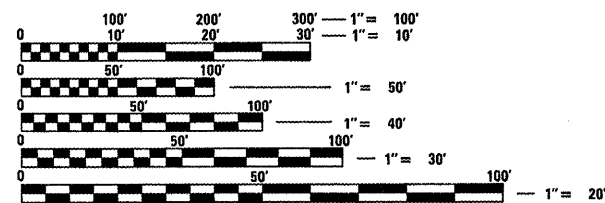
DESIGN DESIGNATION  
N/A

LOCATION MAP



GROSS LENGTH 6547.21 FT 1.240 MILES  
BRIDGE OMISSION 593.67 FT 0.112 MILES  
NET LENGTH 5953.54 FT 1.128 MILES

FOR INDEX OF SHEETS, SEE SHEET NO. 2



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

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

PROJECT ENGINEER PATTI LeBEAU 346-3179  
PROJECT MANAGER REBECCA THARP 346-3323

CONTRACT NO. 76E87

GENERAL NOTES

- 1 ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:
  - AMEREN ILLINOIS
  - AT&T ILLINOIS
  - CHARTER COMMUNICATIONS, INC.
  - CITY OF O'FALLON
  - QWEST COMMUNICATIONS
  - VILLAGE OF SHILOH
 MEMBERS OF J.U.L.I.E. CALL TOLL FREE (800) 892-0123 OR 811 AND ARE INDICATED BY "•". NON- J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.
- 2 THE CONTRACTOR AND THE ENGINEER SHALL BE AWARE THAT NO SURVEY WAS PERFORMED FOR THIS PROJECT. THE STATIONING AND TOPOGRAPHY SHOWN IN THE PLANS WAS CREATED USING MICROFILM AND FIELD MEASUREMENTS. THE BEGINNING STATION IS SET AT AN EXISTING JOINT IN THE PAVEMENT APPROXIMATELY 1373 FEET EAST OF THE INTERSECTION OF IL ROUTE 158 AND US ROUTE 50. BOTH SHALL BE ASSUMED TO BE APPROXIMATE. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 3 THE THICKNESS OF HOT-MIX ASPHALT SURFACE MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
- 4 THE VARIOUS THICKNESS OF HOT-MIX ASPHALT SURFACE REMOVAL SHOWN ON THE PLANS IS THE AVERAGE THICKNESS BASED UPON CONTROLLING THICKNESS AS INDICATED. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE. HOT-MIX ASPHALT SURFACE REMOVAL HAS BEEN INCLUDED IN THE PLANS FOR THE PURPOSE OF REMOVING HIGH IRREGULARITIES AND TO ESTABLISH CROSS SLOPE.
- 5 THE WIDTHS OF BITUMINOUS SURFACE REMOVAL SHOWN ON THE PLANS ARE THE NOMINAL WIDTHS. IRREGULARITIES IN THE SURFACE WIDTH MAY OCCUR THROUGHOUT THE LENGTH OF THE SECTION. BITUMINOUS SURFACE REMOVAL WILL BE PAID FOR IN SQUARE YARDS BASED UPON THE NOMINAL WIDTHS INDICATED.
- 6 THE USE OF VIBRATORY ROLLERS WILL NOT BE PERMITTED FOR THIS PROJECT. THIS DOES NOT RELIEVE THE CONTRACTOR OF DENSITY REQUIREMENTS FOR THE CONSTRUCTION OF THE HOT-MIX ASPHALT PAVEMENTS AS SPECIFIED IN SECTIONS 406 & 407 OF THE STANDARD SPECIFICATIONS
- 7 THERE IS AN ESTIMATED QUANTITY OF 1188 TONS OF CUTTINGS FROM THE HOT-MIX ASPHALT SURFACE REMOVAL OPERATION.
- 8 NO OVERNIGHT CLOSURES WILL BE PERMITTED.
- 9 FLAGGERS SHALL BE REQUIRED AT ALL TIMES DURING PATCHING OPERATIONS
- 10 THE PROPOSED PAVEMENT MARKING SHALL MATCH THE LOCATIONS OF THE EXISTING PAVEMENT MARKING, AS DIRECTED BY THE ENGINEER. ALL EXISTING AND PROPOSED RIGHT-OF-WAY LINES AND PROPERTY LINES SHOWN ON THE PLAN SHEETS ARE GRAPHICAL REPRESENTATIONS AND SHALL NOT BE USED AS A MEANS TO ESTABLISH OWNERSHIP. IN ALL MATTERS RELATING TO RIGHT-OF-WAY, THE PLAT OF HIGHWAYS SHALL BE THE CONTROLLING DOCUMENT.

GENERAL NOTES, CONTINUED

- 11 FOUR CHANGEABLE MESSAGE BOARDS SHALL BE REQUIRED FOR THIS PROJECT. THEY SHALL BE PLACED ONE WEEK PRIOR TO ANY LANE CLOSURE. THE CHANGEABLE MESSAGE SHALL BE PLACED ALONG IL ROUTE 158 PRIOR TO THE INTERSECTION OF US ROUTE 50, ALONG TROY-O'FALLON ROAD PRIOR TO US ROUTE 50, AND ALONG US ROUTE 50 AT EACH END OF THE PROJECT, AS DIRECTED OF THE ENGINEER.
- 12 ACCESS SHALL BE MAINTAINED TO ALL PROPERTIES UNLESS OTHERWISE NOTED IN THE PLANS.
- 13 THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES & COMMITMENTS
- 3- 4 SUMMARY OF QUANTITIES
- 5- 6 TYPICAL SECTIONS
- 7- 8 SCHEDULES OF QUANTITIES
- 9- 11 PLAN & PROFILE SHEETS
- 12 DISTRICT DETAILS

HIGHWAY STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 482011-03 HMA SHOULDER STRIPS/SHOULDER WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS.
- 630001-10 STEEL PLATE BEAM GUARDRAIL
- 631031-10 TRAFFIC BARRIER TERMINAL TYPE 6
- 635001-01 DELINEATORS
- 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 635011-02 REFLECTOR MARKER AND MOUNTING DETAILS
- 701001-02 OFF ROAD OPERATIONS
- 701011-02 OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701201-04 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS GREATER THAN 45 MPH
- 701206-03 LANE CLOSURE, 2L, 2W, NIGHT ONLY SPEEDS GREATER THAN 45 MPH
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701306-03 LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS, DAY ONLY
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATION - DAY ONLY
- 701336-06 LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES FOR SPEEDS GREATER THAN 45 MPH
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701901-02 TRAFFIC CONTROL DEVICES
- 780001-03 TYPICAL PAVEMENT MARKINGS
- 781001-03 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

COMMITMENTS

NONE

FILE NAME =	USER NAME = muehifedec	DESIGNED - ACM	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS, GENERAL NOTES AND COMMENTS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
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	PLOT DATE = 2/23/2012	DATE -	REVISED -												
													CONTRACT NO. 76E87		
													ILLINOIS FED. AID PROJECT		

# SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		80% FEDERAL 20% STATE 0005		
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	47	47		
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	32.2	32.2		
40600300	AGGREGATE (PRIME COAT)	TON	53	53		
40600825	POLYMERIZED LEVELING BINDER (MACHINE METHOD), N50	TON	734	734		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	415	415		
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	56	56		
40603545	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	1467	1467		
40800020	BITUMINOUS MATERIALS (PRIME COAT)	TON	0.9	0.9		
40800030	AGGREGATE (PRIME COAT)	TON	2	2		
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	24	24		
44000153	HOT-MIX ASPHALT SURFACE REMOVAL, 1"	SQ YD	21198	21198		
44004250	PAVED SHOULDER REMOVAL	SQ YD	777	777		

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		80% FEDERAL 20% STATE 0005		
44200144	PAVEMENT PATCHING, TYPE II, 12 INCH	SQ YD	77	77		
44200180	PAVEMENT PATCHING, TYPE II, 15 INCH	SQ YD	20	20		
44200184	PAVEMENT PATCHING, TYPE III, 15 INCH	SQ YD	269	269		
44200186	PAVEMENT PATCHING, TYPE IV, 15 INCH	SQ YD	157	157		
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	6194	6194		
48101200	AGGREGATE SHOULDERS, TYPE B	TON	107	107		
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	2071	2071		
48203100	HOT-MIX ASPHALT SHOULDERS	TON	469	469		
X 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	3912.5	3912.5		
X 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4		
X 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	6	6		
63200310	GUARDRAIL REMOVAL	FOOT	4382	4382		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5	5		

X SPECIALTY ITEM

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

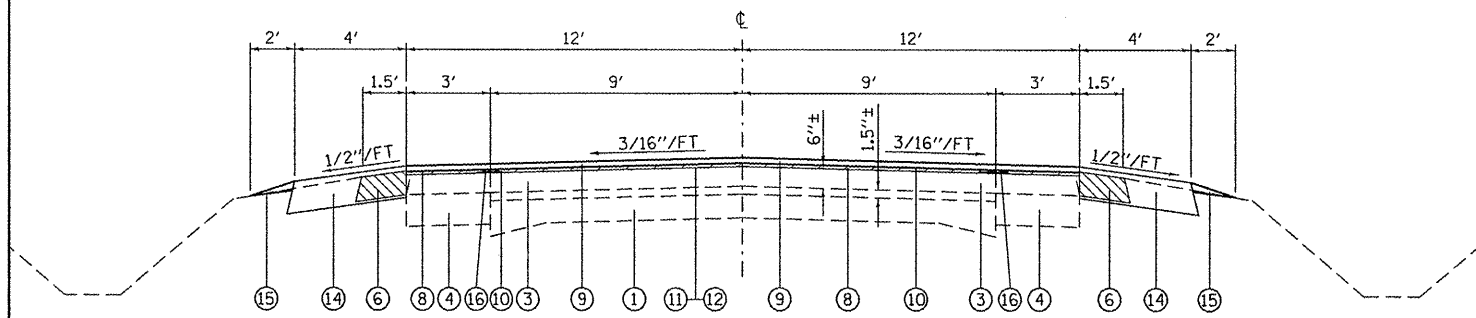
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F.A.P. RATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	3IRS-3	ST. CLAIR	12	3
CONTRACT NO. 76E87				
ILLINOIS FED. AID PROJECT				

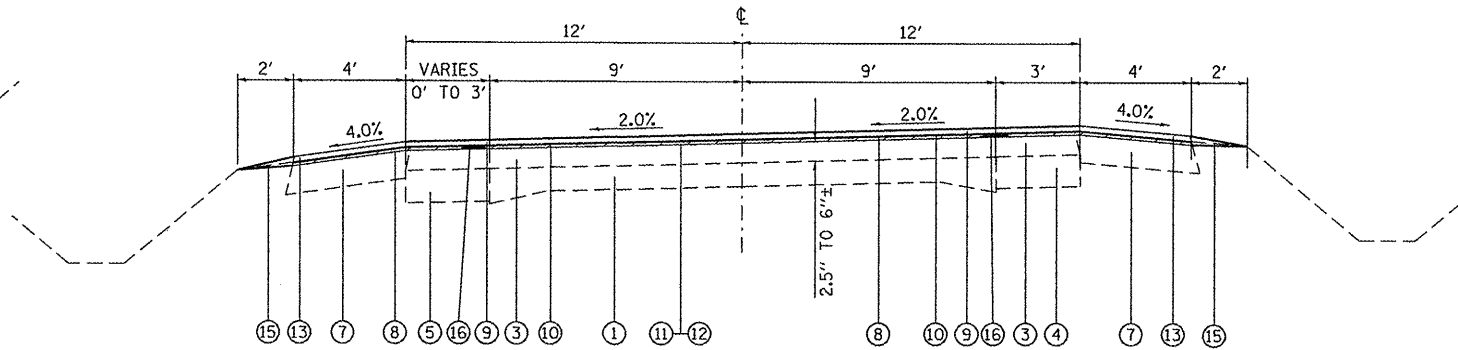
# SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE			SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		80% FEDERAL 20% STATE 0005			CODE NO	ITEM	UNIT		80% FEDERAL 20% STATE 0005		
67100100	MOBILIZATION	L SUM	1	1		X 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	16263	16263			
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1		X 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	1932	1932			
70100455	TRAFFIC CONTROL AND PROTECTION, STANDARD 701206	L SUM	1	1		X 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	77	77			
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1		X 78100105	RAISED REFLECTIVE PAVEMENT MARKER ( BRIDGE )	EACH	8	8			
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1	1		X 78200410	GUARDRAIL MARKERS, TYPE A	EACH	62	62			
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1		X 78200520	BARRIER WALL MARKERS, TYPE B	EACH	12	12			
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	14	14		X 78200530	BARRIER WALL MARKERS, TYPE C	EACH	12	12			
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	13	13		X 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	6	6			
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1		78300100	PAVEMENT MARKING REMOVAL	SQ FT	644	644			
70300100	SHORT TERM PAVEMENT MARKING	FOOT	2904	2904		78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	85	85			
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	18194	18194									
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	6388	6388									

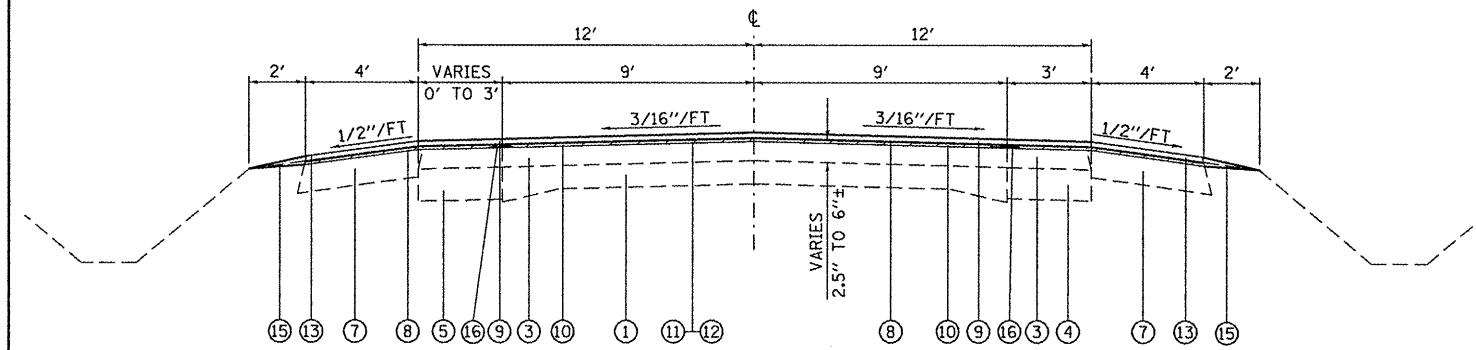
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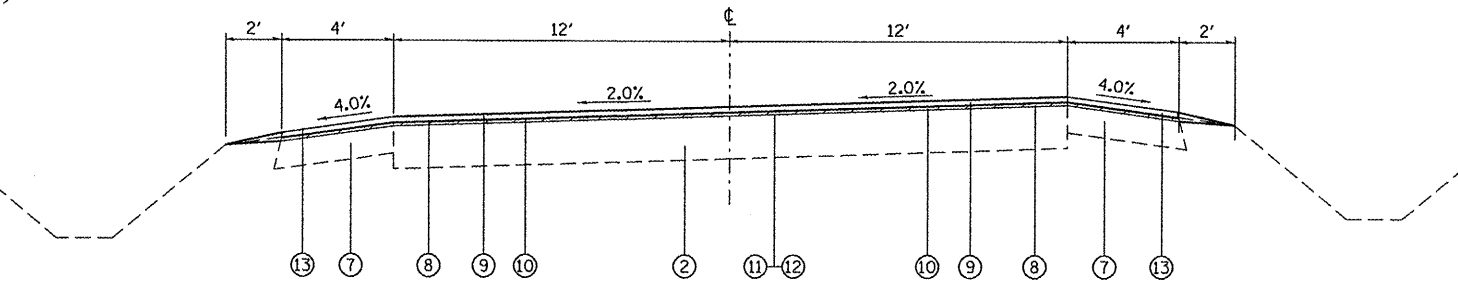
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SUPER-ELEVATION SECTION  
STA. 150+49.98 TO 152+45.51



TYPICAL SECTION  
STA. 149+32.98 TO STA. 150+49.98



SUPER-ELEVATION SECTION  
STA. 152+45.51 TO 154+50.11

LEGEND

- ① EXISTING 9-6-9 PAVEMENT
- ② EXISTING HMA PAVEMENT, 12"
- ③ EXISTING HMA SURFACE
- ④ EXISTING PCC WIDENING, 8"
- ⑤ EXISTING HMA WIDENING, 8 1/4"
- ⑥ EXISTING HMA SHOULDERS, 6"
- ⑦ EXISTING HMA SHOULDERS, 8"
- ⑧ PROPOSED HMA SURFACE REMOVAL, 1"
- ⑨ PROPOSED HMA SURFACE COURSE, 1 1/2"
- ⑩ PROPOSED LEVELING BINDER, 3/4"
- ⑪ PROPOSED BITUMINOUS PRIME COAT
- ⑫ PROPOSED AGGREGATE PRIME COAT
- ⑬ PROPOSED HMA SHOULDER, 1 1/2"
- ⑭ PROPOSED HMA SHOULDER, 8"
- ⑮ PROPOSED AGGREGATE SHOULDER, TYPE B
- ⑯ PROPOSED STRIP REFLECTIVE CRACK CONTROL

NOTES:

1. THE SUPER-ELEVATION TYPICAL SECTIONS WERE DEVELOPED FROM MICROFILM AND FIELD MEASUREMENTS. THE STATION CALLOUTS ARE THE PC AND THE PT OF THE EXISTING CURVES. FIELD ADJUSTMENTS WILL BE NECESSARY.
2. HOT-MIX ASPHALT SURFACE REMOVAL WILL BE CONTROLLED AT THE CENTERLINE AND THE PAVEMENT CROSS SLOPES WILL BE REESTABLISHED FROM THIS POINT.

DENOTES HOT-MIX ASPHALT SURFACE REMOVAL  
 DENOTES SHOULDER REMOVAL

MIXTURE REQUIREMENT CHART

MIXTURE USE	POLY SURFACE	POLY-LEVEL BINDER	PATCHING	INCIDENTAL SURF	SHOULDERS > 2.25"	SHOULDERS < 2.25"
AC/PG	SBS 76-22	SBS 76-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)	SEE SPEC.	SEE SPEC.	SEE SPEC.	SEE SPEC.	See Contract RAP Provision	See Contract RAP Provision
DESIGN AIR Voids	4.0% @ Ndes=90	4.0% @ Ndes=50	4.0% @ Ndes=90	4.0% @ Ndes=90	**2.0% @ Ndes=30	**2.0% @ Ndes=30
MIX COMPOSITION (GRADATION MIXTURE)	IL 12.5/9.5	IL 4.75	IL 19.0		NMAS 3/4"	NMAS 1/2"
FRICTION AGG	MIXTURE "D"	MIXTURE "C"	MIXTURE "B"	MIXTURE "C"		

\*\* TOP LIFT OF SHOULDERS - DESIGN THIS MIX AT 2.0% VOIDS AND AD ASPHALT TO REDUCE VOIDS TO 1.5%.  
 PLAN QUANTITIES FOR BITUMINOUS CONCRETE SURFACE COURSE ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LBS/SQ YD/IN

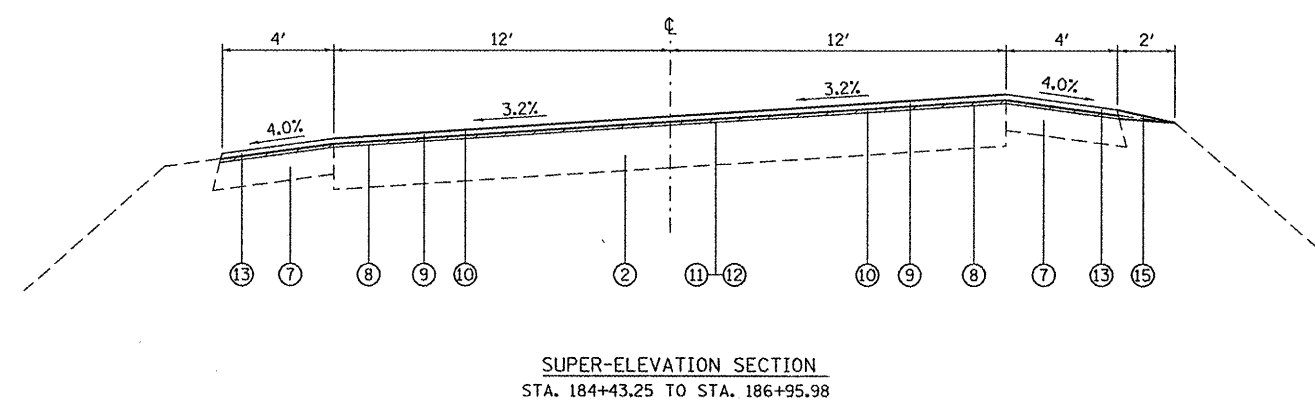
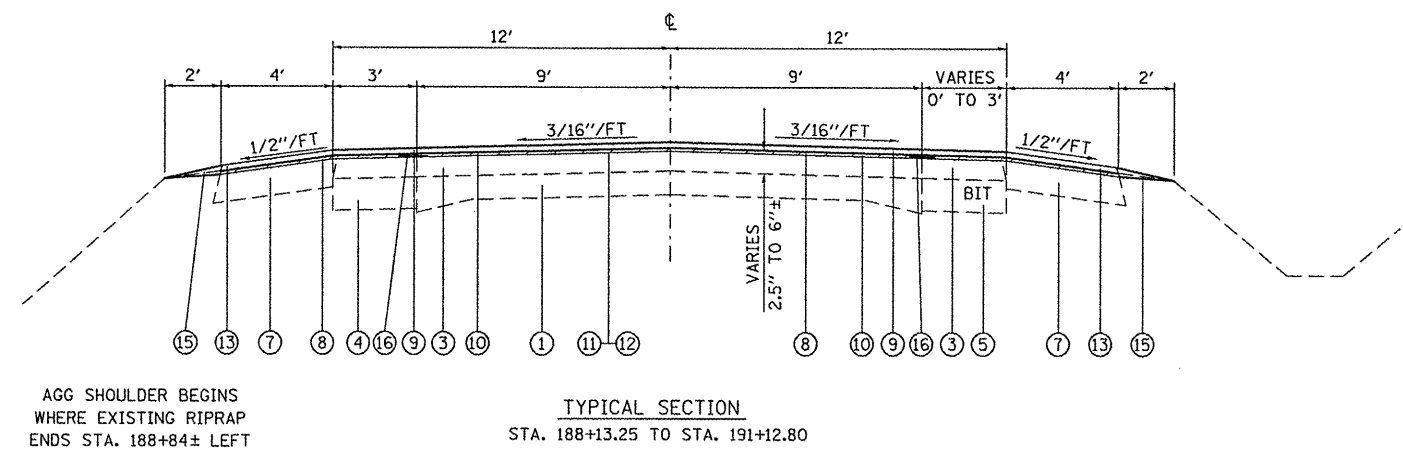
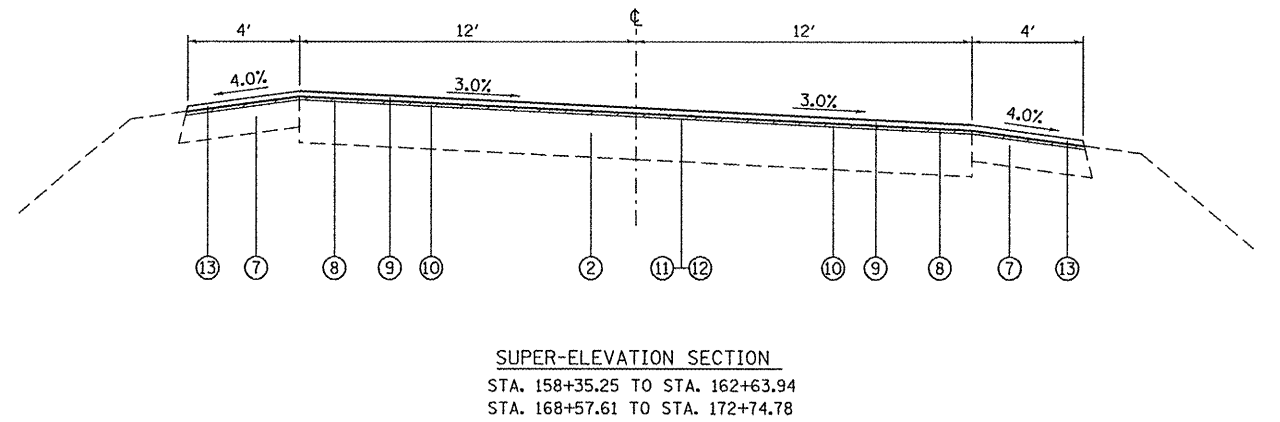
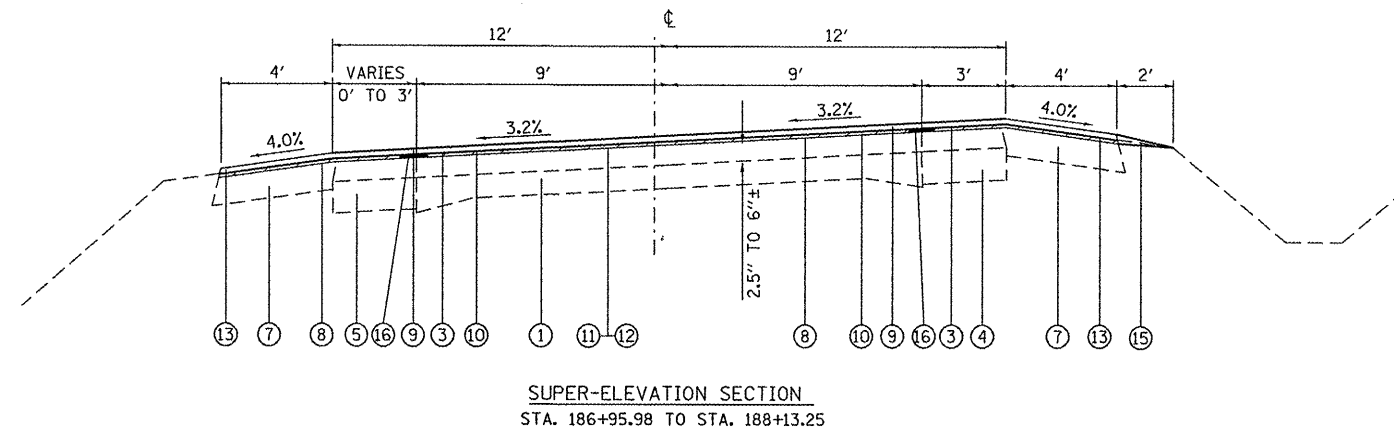
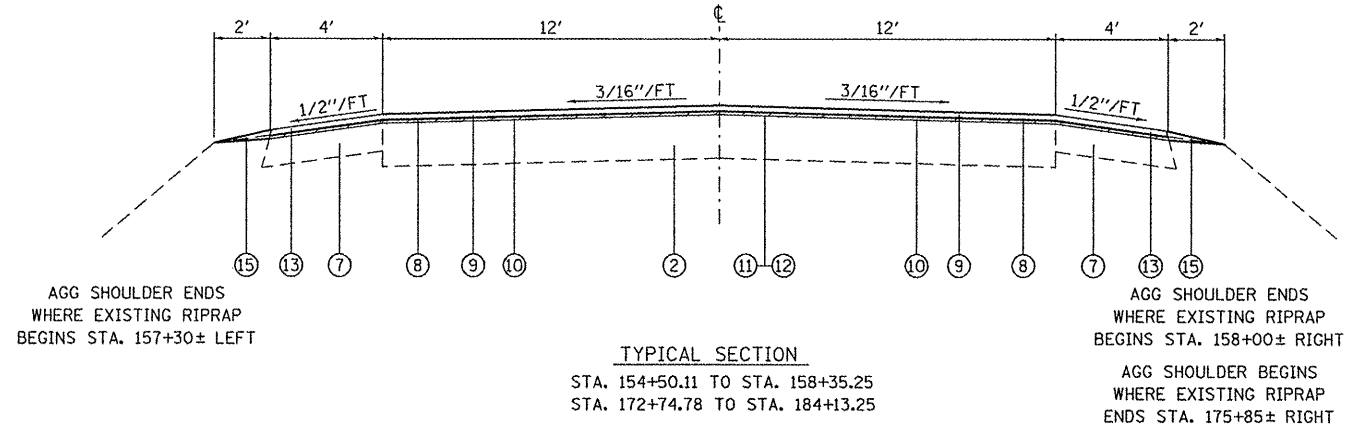
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: NONE SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	31RS-3	ST. CLAIR	12	5
CONTRACT NO. 76E87				
ILLINOIS FED. AID PROJECT				



- LEGEND**
- ① EXISTING 9-6-9 PAVEMENT
  - ② EXISTING HMA PAVEMENT, 12"
  - ③ EXISTING HMA SURFACE
  - ④ EXISTING PCC WIDENING, 8"
  - ⑤ EXISTING HMA WIDENING, 8 1/4"
  - ⑥ EXISTING HMA SHOULDERS, 6"
  - ⑦ EXISTING HMA SHOULDERS, 8"
  - ⑧ PROPOSED HMA SURFACE REMOVAL, 1"
  - ⑨ PROPOSED HMA SURFACE COURSE, 1 1/2"
  - ⑩ PROPOSED LEVELING BINDER, 3/4"
  - ⑪ PROPOSED BITUMINOUS PRIME COAT
  - ⑫ PROPOSED AGGREGATE PRIME COAT
  - ⑬ PROPOSED HMA SHOULDER, 1 1/2"
  - ⑭ PROPOSED HMA SHOULDER, 8"
  - ⑮ PROPOSED AGGREGATE SHOULDER, TYPE B
  - ⑯ PROPOSED STRIP REFLECTIVE CRACK CONTROL

DENOTES HOT-MIX ASPHALT SURFACE REMOVAL  
 DENOTES SHOULDER REMOVAL

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS</b>	
SCALE: NONE	SHEET NO. 2 OF 2 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	3IRS-3	ST. CLAIR	12	6
CONTRACT NO. 76E87			ILLINOIS FED. AID PROJECT	

RESURFACING SCHEDULE														
LOCATION			HMA SURFACE REMOVAL 1"	HMA SURFACE REMOVAL BUTT JOINT	STRIP REFL. CRACK CONTROL TREATMENT	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	POLYMERIZED LEVELING BINDER (MACHINE METHOD) N50	POLYMERIZED HMA. SURFACE CSE. MIX. D N90	EXCAVATION AND GRADING EX. SHOULDERS	PAVED SHOULDER REMOVAL	HMA SHOULDERS 8 INCH	HMA SHOULDERS	AGGREGATE SHOULDERS TYPE B
STATION	TO	STATION	SQ YD	SQ YD	FEET	TON	TON	TON	TON	UNITS	SQ YD	SQ YD	TON	TON
125+65.60	TO	137+00.00	3025.07	66.7	2268.8	4.73	7.56	127.05	254.11	22.69	378.13	1008.36		18.38
137+00.00	TO	152+00.00	4031.48		3000	6.63	10.59	168.00	336.00	23.89	398.13	1061.67	29.91	24.30
152+00.00	TO	162+63.94	3782.90	88.9	91.02	5.92	9.46	119.16	238.32				119.16	17.24
162+63.94	TO	168+57.61	2110.83	88.9		3.30	5.28	66.49	132.98				66.49	9.62
168+57.61	TO	182+00.00	4772.94			7.47	11.93	150.35	300.70				150.35	21.75
182+00.00	TO	191+12.80	3245.51	88.9	833.64	5.08	8.11	102.23	204.47				102.23	14.79
TOTAL			20968.73	333.4	6193.46	33.13	52.94	733.29	1466.57	46.58	776.26	2070.03	468.14	106.08
ROUNDED			20969	334	6194	33.2	53	734	1467	47	777	2071	469	107

THIS IS NOT A TOTAL QUANTITY, SEE ENTRANCE AND SIDE ROAD SCHEDULE

GUARDRAIL SCHEDULE											
LOCATION			SIDE	GUARDRAIL REMOVAL	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	TRAFFIC BARRIER TERMINAL, TYPE 6	GUARDRAIL MARKERS, TYPE A	BARRIER WALL MARKERS, TYPE B	BARRIER WALL MARKERS, TYPE C	TERMINAL MARKER - DIRECT APPLIED
STATION	TO	STATION	RT/LT	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH
157+42.05	TO	163+47.97	LT	606.25	512.5	1	1	8			1
+4.00	TO	163+88.11	RT	568.75	475.0	1	1	7			1
163+47.97	TO	167+35.22	LT						6	6	
163+88.11	TO	167+72.44	RT						6	6	
167+35.22	TO	177+26.33	LT	1093.75	1000.0	1	1	17			1
167+72.44	TO	175+68.74	RT	793.75	700.0	1	1	10			1
177+26.33	TO	189+53.99	LT	1318.75	1225.0	2		20			2
TOTAL				4381.25	3912.5	6	4	62	12	12	6
ROUNDED				4382	3912.5	6	4	62	12	12	6

PAVEMENT MARKING SCHEDULE																	
LOCATION			THERMOPLASTIC 4 INCH WHITE SOLID LINE	THERMOPLASTIC 4 INCH YELLOW SOLID LINE	THERMOPLASTIC 4 INCH YELLOW (SKIP DASH)	PAV. MARK. REMOVAL	POLYUREA 4 INCH WHITE SOLID LINE	POLYUREA 4 INCH YELLOW SOLID LINE	POLYUREA 4 INCH YELLOW (SKIP DASH)	TEMPORARY 4 INCH WHITE SOLID LINE	TEMPORARY 4 INCH YELLOW SOLID LINE	TEMPORARY 4 INCH YELLOW (SKIP DASH)	SHORT TERM PAVEMENT MARKING	WORK ZONE PAVEMENT MARKING	AMBER RAISED REFLECTIVE PAVEMENT MARKER	AMBER RAISED REFLECTIVE PAVEMENT MARKER. BRIDGE	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
STATION	TO	STATION	FEET	FEET	FEET	SO. FEET	FEET	FEET	FEET	FEET	FEET	FEET	FEET	SO. FEET	EACH	EACH	EACH
125+65.60	TO	137+00.00	2268.80	482.40	290.00					2268.80	482.40	290.00	312.00	1048.40	15		15
137+00.00	TO	152+00.00	3000.00		380.00					3000.00			492.00	1181.33	19		19
152+00.00	TO	162+63.94	2127.88	635.94	270.00					2127.88	635.94	270.00	564.00	1073.94	14		14
162+63.94	TO	167+00.00				472.40	872.12	436.06	110.00	872.12	436.06	110.00	240.00	499.39		6	6
167+00.00	TO	168+57.61				170.74	315.22	157.61	40.00	315.22	157.61	40.00	96.00	181.61		2	2
168+57.61	TO	182+00.00	2684.78	988.39	340.00					2684.78	988.39	340.00	708.00	1416.39	17		17
182+00.00	TO	191+12.81	1825.62	738.81	230.00					1825.62	738.81	230.00	492.00	986.14	12		12
SUBTOTAL			11907.08	2845.54	1510.00	643.14	1187.34	593.67	150.00	13094.42	3439.21	1660.00	2904.00	6387.21	77	8	85
TOTAL			16262.62			643.14	1931.01			18193.63			2904.00	6387.21	77	8	85
ROUNDED			16263			644	1932			18194			2904	6388	77	8	85

ENTRANCES AND SIDE ROADS										
STATION	SIDE	TYPE	MATERIAL	INCIDENTAL HMA SURFACE TON	BITUMINOUS MATERIAL (PRIME COAT) TON	AGGREGATE (PRIME COAT) TON	HMA SURFACE REMOVAL BUTT JOINT SQ YD	PCC SURFACE REMOVAL BUTT JOINT SQ YD	HMA SURFACE REMOVAL 1" SQ YD	COMMENT
127+10.16	RT	P.E.	AGG	0.13	0.01	0.01				
127+49.89	RT	P.E.	AGG	0.13	0.01	0.01				
129+39.09	LT	C.E.	AGG	0.39	0.02	0.03				
130+76.74	RT	F.E.	AGG	0.14	0.01	0.01				
131+88.42	RT	F.E.	AGG	0.18	0.01	0.01				
133+77.98	RT	P.E.	AGG	0.18	0.01	0.01				
135+05.49	RT	P.E.	AGG	0.11	0.00	0.01				
135+72.97	RT	P.E.	AGG	0.11	0.00	0.01				
136+10.24	RT	P.E.	AGG	0.14	0.01	0.01				
136+70.35	RT	P.E.	AGG	0.11	0.00	0.01				
137+10.59	RT	P.E.	AGG	0.14	0.01	0.01				
138+32.54	RT	C.E.	HMA	0.17	0.01	0.01				
140+41.47	RT	C.E.	HMA	0.27	0.01	0.02				
141+20.00	RT	F.E.	AGG	0.20	0.01	0.01				
142+59.62	LT	S.R.	CONC	1.94	0.09	0.14		55.38		COMMERCE LANE
144+14.86	RT	P.E.	AGG	0.13	0.01	0.01				
145+55.32	RT	P.E.	HMA	0.15	0.01	0.01				
146+66.70	RT	P.E.	HMA	0.12	0.01	0.01				
147+72.30	RT	P.E.	AGG	0.15	0.01	0.01				
148+83.78	RT	S.R.	AGG	0.55	0.02	0.04				MEMORY LANE
150+05.39	RT	C.E.	HMA	0.27	0.01	0.02				
150+65.04	LT	C.E.	HMA	0.53	0.02	0.04				
152+11.75	LT	C.E.	HMA	0.36	0.02	0.03				
153+52.71	LT	C.E.	HMA	0.30	0.01	0.02				
154+68.23	RT	F.E.	HMA	0.12	0.01	0.01				
155+43.51	RT	C.E.	HMA	0.14	0.01	0.01				
155+44.96	LT	C.E.	HMA	0.32	0.01	0.02				
156+36.09	RT	C.E.	AGG	0.22	0.01	0.02				
157+54.13	RT	S.R.	HMA	12.79	0.36	0.57	0.00		228.47	OLD US 50
177+26.33	LT	S.R.	HMA	2.27	0.10	0.16	64.76			QUARRY ROAD
179+79.43	RT	P.E.	HMA	0.22	0.01	0.02				
185+23.83	RT	P.E.	HMA	0.22	0.01	0.02				
189+78.40	LT	P.E.	AGG	0.29	0.01	0.02				
TOTAL				23.47	0.83	1.33	64.76	55.38	228.47	
ROUNDED				24	0.9	1.4	65	56	229	

\* THIS IS NOT A TOTAL QUANTITY, SEE RESURFACING SCHEDULE

PAVEMENT PATCHING SCHEDULE										
LOCATION STATION	SIDE	LENGTH FT	WIDTH FT	AREA SQ YD	PATCHING				COMMENTS	
					15 INCHES		12 INCHES			
					TYPE II	TYPE III	TYPE IV	TYPE II		
125+65.60	RT	200.00	3.00	66.67			66.67		3 FT ALONG EDGE OF PAVEMENT	
129+88.00	RT	12.00	12.00	16.00		16.00				
129+88.00	LT	12.00	12.00	16.00		16.00				
131+99.20	RT	12.00	12.00	16.00		16.00				
131+99.20	LT	12.00	12.00	16.00		16.00				
133+57.60	RT	12.00	12.00	16.00		16.00				
133+57.60	LT	12.00	12.00	16.00		16.00				
134+63.20	RT	12.00	12.00	16.00		16.00				
134+63.20	LT	12.00	12.00	16.00		16.00				
141+49.60	RT	12.00	12.00	16.00		16.00				
141+49.60	LT	12.00	12.00	16.00		16.00				
143+00.00	RT	100.00	3.00	33.33			33.33		3 FT ALONG EDGE OF PAVEMENT	
142+60.00	LT	92.00	3.00	30.67			30.67		3 FT ALONG EDGE OF PAVEMENT; COMMERCE LANE	
143+08.00	RT	12.00	12.00	16.00		16.00				
143+08.00	LT	12.00	12.00	16.00		16.00				
146+77.60	RT	12.00	12.00	16.00		16.00				
146+77.60	LT	12.00	12.00	16.00		16.00				
177+26.00	RT	6.00	12.00	8.00				8.00		
177+26.00	LT	6.00	12.00	8.00				8.00		
179+40.00	RT	6.00	12.00	8.00				8.00		
179+40.00	LT	6.00	12.00	8.00				8.00		
180+00.00	RT	6.00	12.00	8.00				8.00		
180+00.00	LT	6.00	12.00	8.00				8.00		
185+70.00	RT	6.00	12.00	8.00				8.00		
185+70.00	LT	6.00	12.00	8.00				8.00		
190+20.00	RT	6.00	12.00	8.00	8.00					
190+20.00	LT	6.00	12.00	8.00	8.00					
SUB-TOTAL					16.00	224.00	130.67	64.00		
ANTICIPATED FAILURES (20%)					3.20	44.80	26.13	12.80		
TOTAL					19.20	268.80	156.80	76.80		
ROUNDED					20	269	157	77		

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	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -
	PLOT DATE = 2/23/2012	DATE -	REVISED -

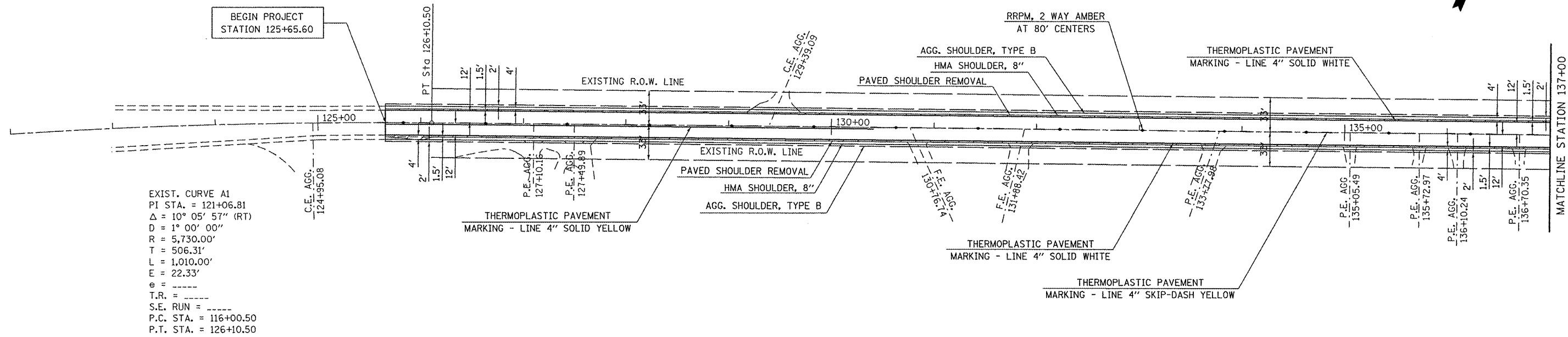
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

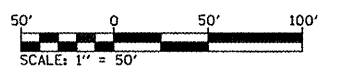
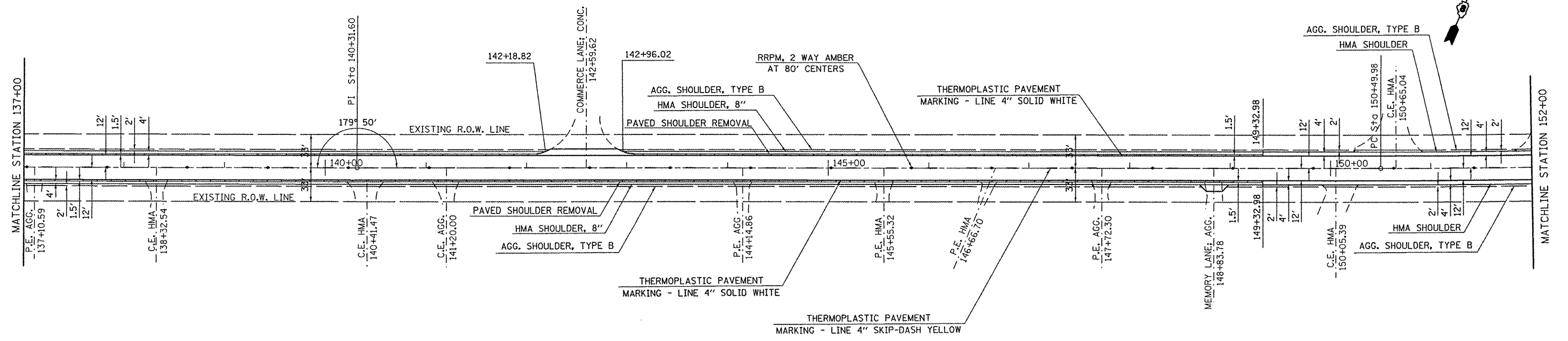
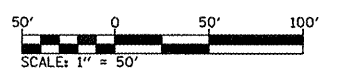
SCALE: NONE SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
674	31RS-3	ST. CLAIR	12	8
CONTRACT NO. 76E87				
ILLINOIS FED. AID PROJECT				

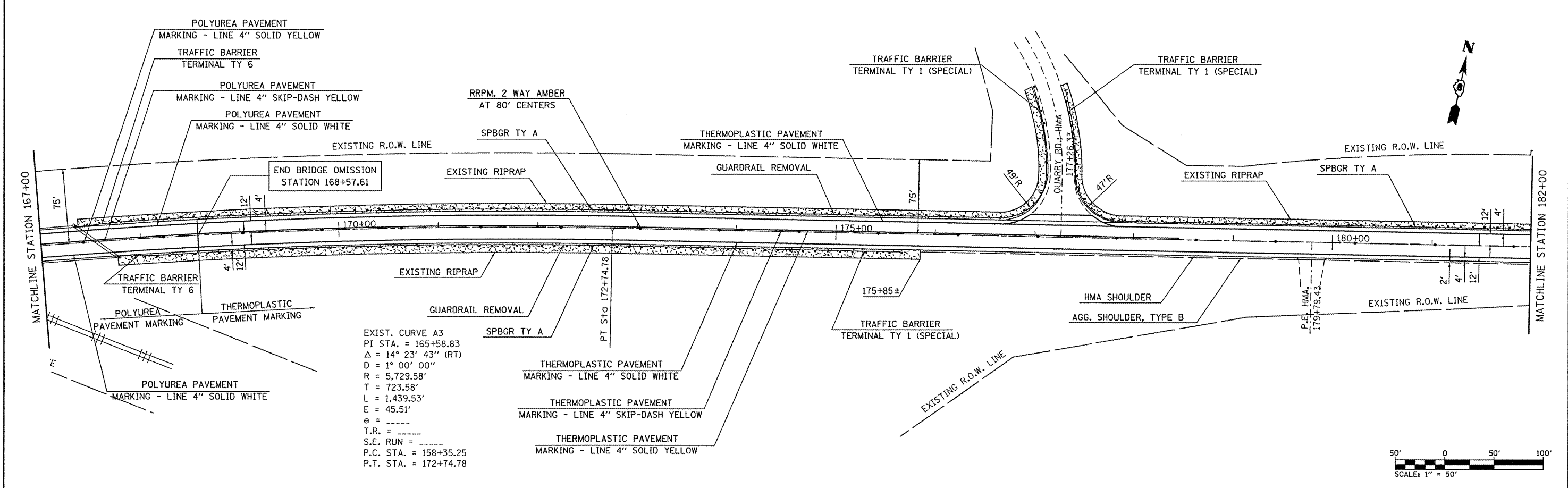
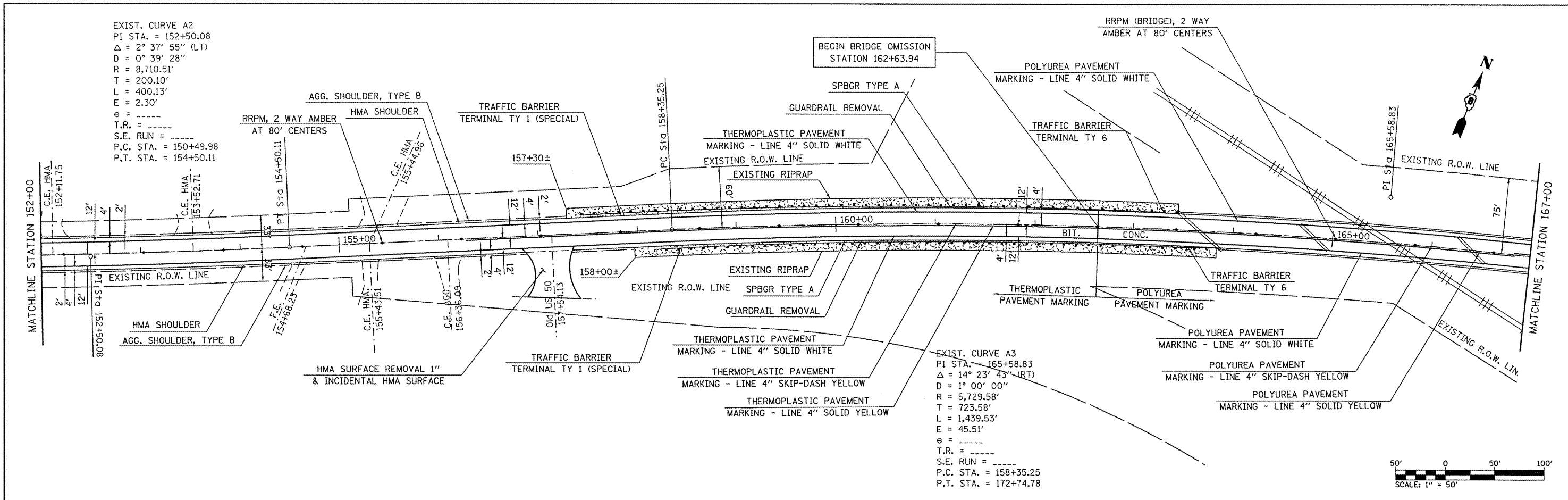




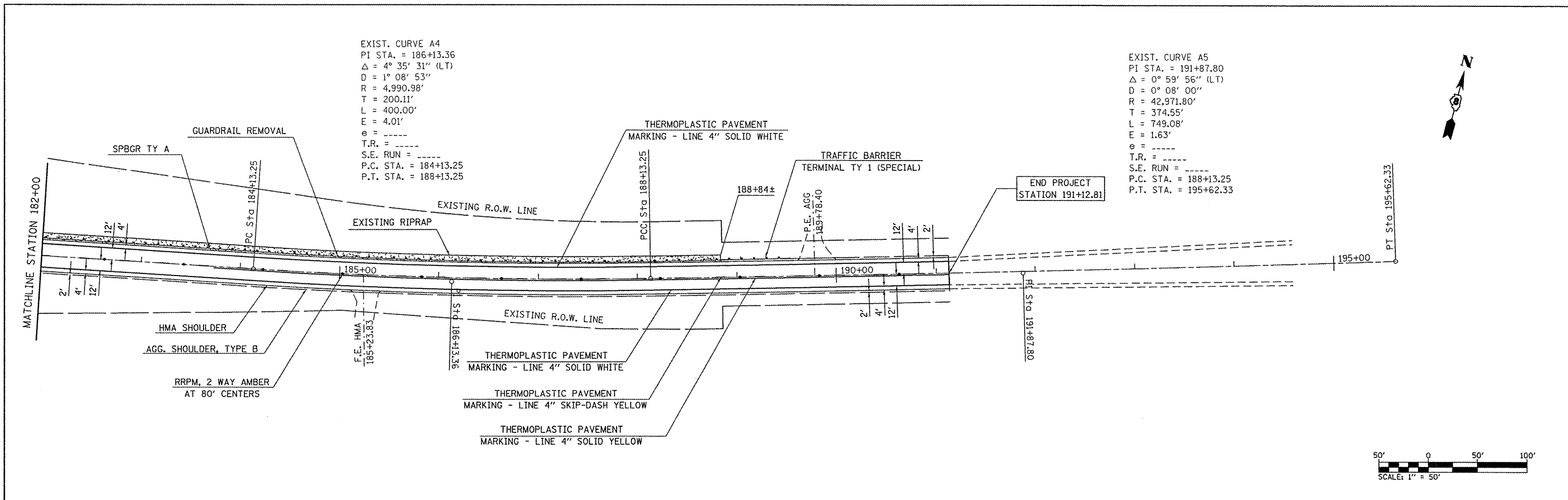
EXIST. CURVE A1  
 PI STA. = 121+06.81  
 $\Delta = 10^\circ 05' 57''$  (RT)  
 $D = 1^\circ 00' 00''$   
 $R = 5,730.00'$   
 $T = 506.31'$   
 $L = 1,010.00'$   
 $E = 22.33'$   
 $e =$   
 T.R. =  
 S.E. RUN =  
 P.C. STA. = 116+00.50  
 P.T. STA. = 126+10.50



FILE NAME =	USER NAME = muhlfield	DESIGNED - ACM	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN SHEETS</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
oi:\pwork\pwork\muhlfield\0254746\0876E87-Plan1.dgn		DRAWN - ACM	REVISED -		SCALE: 50'	SHEET 1 OF 3 SHEETS	STA. 125+65.60 TO STA. 152+00	674	31RS-3	ST. CLAIR	12	9
PLOT SCALE = 100.0000' / in.		CHECKED -	REVISED -								CONTRACT NO. 76E87	
PLOT DATE = 2/23/2012		DATE -	REVISED -								ILLINOIS FED. AID PROJECT	

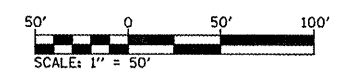


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ca:\pwork\p\d0254746\0876E87-Plan1.dgn		DRAWN - ACM	REVISED -		SCALE: 50'	SHEET 2 OF 3 SHEETS	STA. 152+00 TO STA. 182+00	674	31RS-3	ST. CLAIR	12	10
PLOT SCALE = 100.0000' / in.		CHECKED -	REVISED -		CONTRACT NO. 76E87							
PLOT DATE = 2/23/2012		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

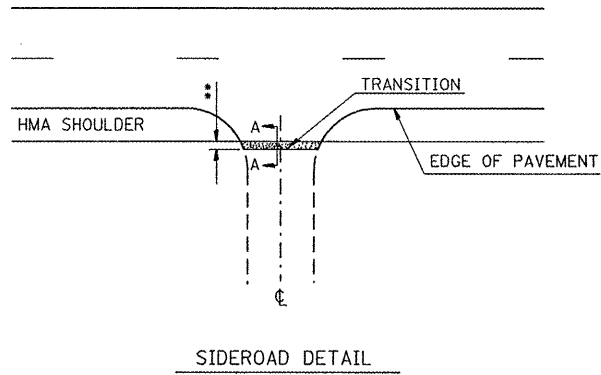


EXIST. CURVE A4  
 PI STA. = 186+13.36  
 $\Delta = 4^\circ 35' 31''$  (LT)  
 $D = 1^\circ 08' 53''$   
 $R = 4,990.98'$   
 $T = 200.11'$   
 $L = 400.00'$   
 $E = 4.01'$   
 $e =$  -----  
 $T.R. =$  -----  
 $S.E. RUN =$  -----  
 $P.C. STA. = 184+13.25$   
 $P.T. STA. = 188+13.25$

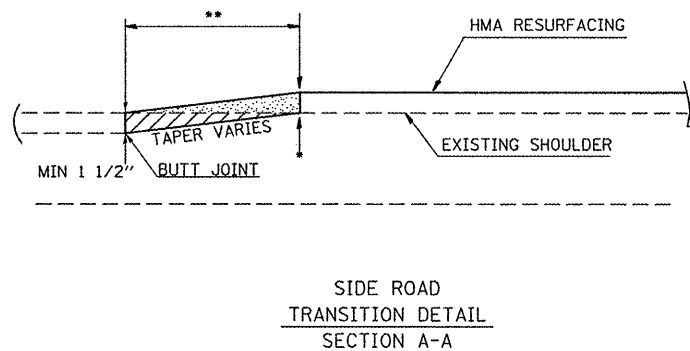
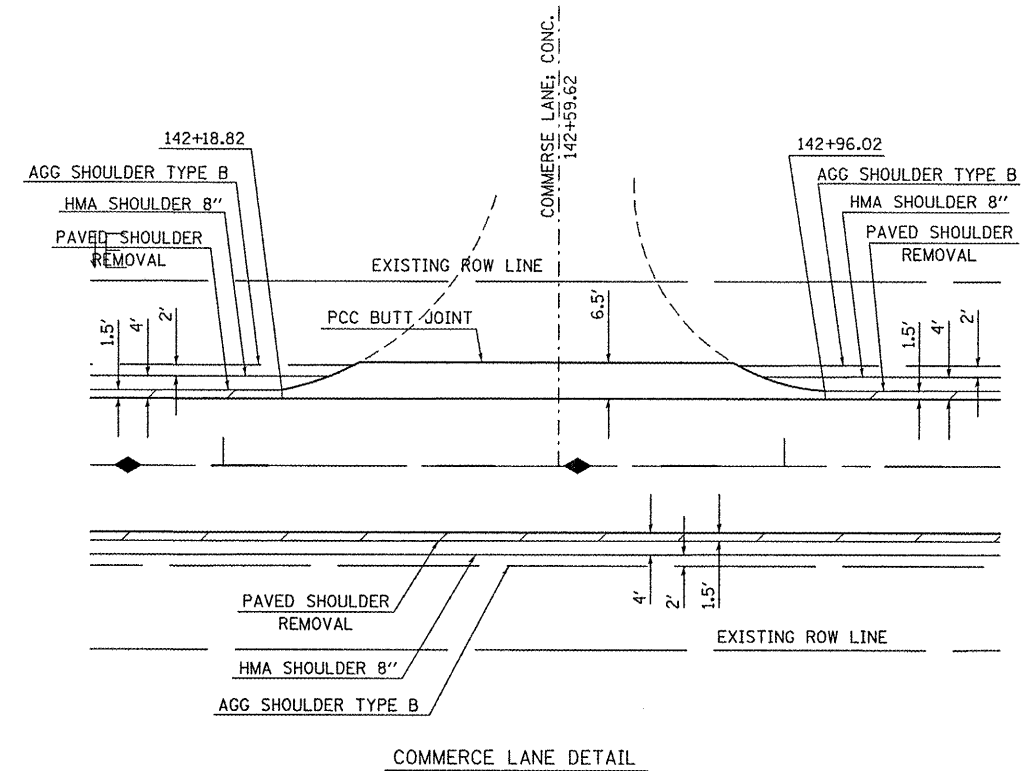
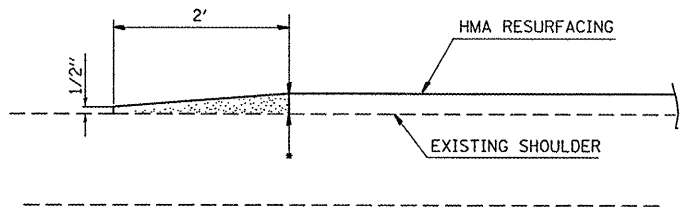
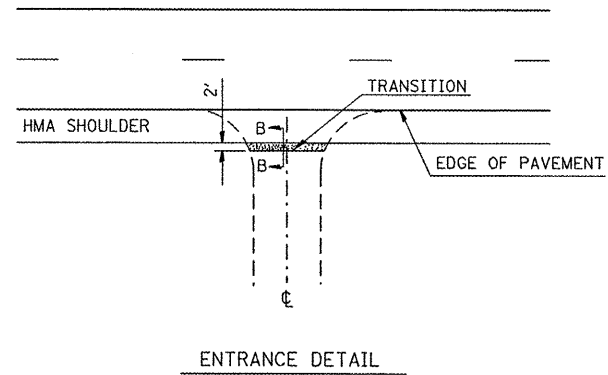
EXIST. CURVE A5  
 PI STA. = 191+87.80  
 $\Delta = 0^\circ 59' 56''$  (LT)  
 $D = 0^\circ 08' 00''$   
 $R = 42,971.80'$   
 $T = 374.55'$   
 $L = 749.08'$   
 $E = 1.63'$   
 $e =$  -----  
 $T.R. =$  -----  
 $S.E. RUN =$  -----  
 $P.C. STA. = 188+13.25$   
 $P.T. STA. = 195+62.33$



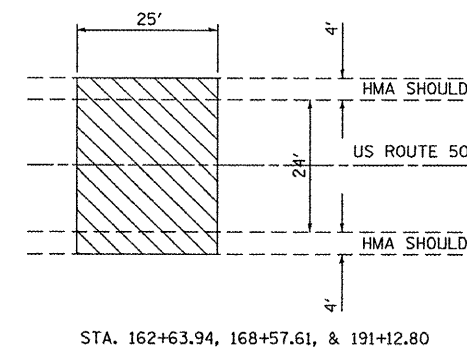
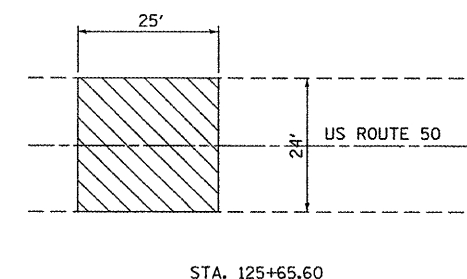
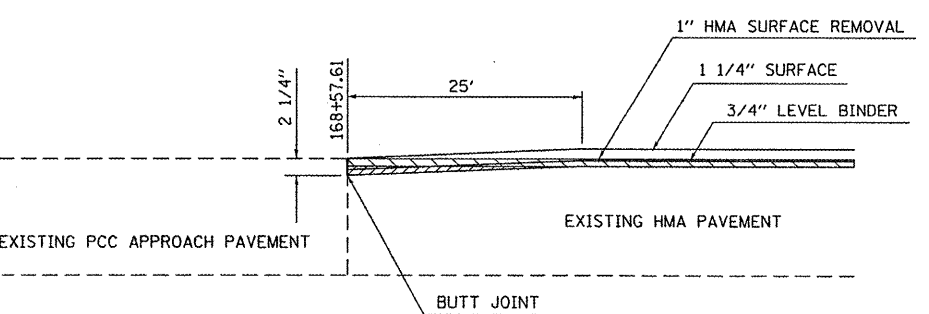
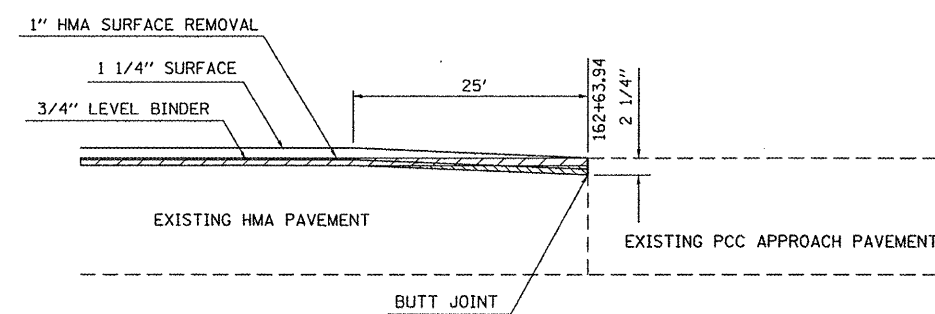
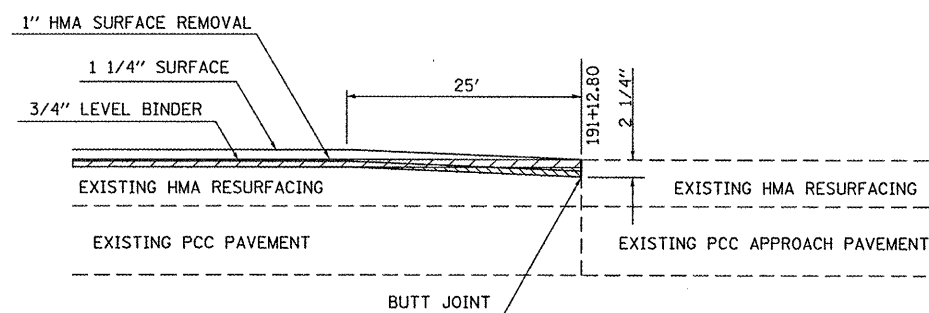
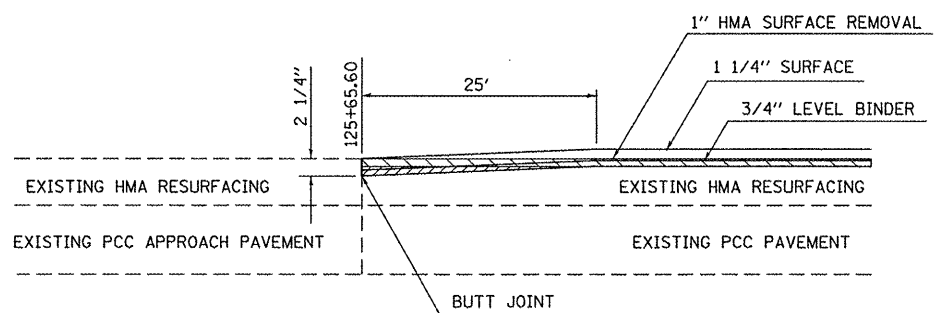
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ei:\pwwork\pvidot\muehlfeldac\d0254746\0976E87-Plan1.dgn		DRAWN - ACM	REVISED -		SCALE: 50'	SHEET 3 OF 3 SHEETS	STA. 182+00 TO STA. 191+12.81	674	3IRS-3	ST. CLAIR	12	11	
		CHECKED -	REVISED -		CONTRACT NO. 76E87								
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT								



*SHOULDER EDGE ELEVATION CHANGE	**TOTAL TRANSITION LENGTH
3/4"	3.5'
1"	5'
1-1/4"	6.25'
1-1/2"	7.5'
1-3/4"	8.75'
2"	10'
2-1/2"	12.5'
3"	15'
3-1/2"	17.5'
4"	20'
4-1/2"	22.5'
5"	25'
5-1/2"	27.5'
6"	30'



NOTE: WHERE THE HMA TRANSITION IS MATCHING INTO AN EXISTING HMA SIDE ROAD SURFACE, A MILLED BUTT JOINT SHALL BE CONSTRUCTED WITHIN THE LIMITS OF THE TOTAL TRANSITION LENGTH ON THE LOCAL ROUTE.



ELEVATION VIEW

BUTT JOINT DETAILS

PLAN VIEW

DENOTES HMA SURFACE REMOVAL - BUTT JOINT

FILE NAME =	USER NAME = muehlfeldao	DESIGNED - ACM	REVISED -
c:\pwork\puidot\muehlfeldao\d0254746\76E87-sht-details.dgn		DRAWN - ACM	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 2/23/2012	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETAIL SHEET

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 674	SECTION 3IRS-3	COUNTY ST. CLAIR	TOTAL SHEETS 12	SHEET NO. 12
CONTRACT NO. 76E87				
ILLINOIS FED. AID PROJECT				