

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
815	06-00101-00-RS	WHITE	4	1
FED. ROAD DIST. NO. 1		ILLINOIS	GRAYVILLE-BURNT PRAIRIE	
LEC JOB # H05I014WH			CONTRACT # 99295	

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PLANS FOR PROPOSED

S.T.R.

F.A.S. 815(CH 20) SECTION 06-00101-00-RS WHITE COUNTY
FEDERAL PROJECT NO. RS-815(108)
C-99-550-06

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET, SUMMARY OF QUANTITIES
2	TYPICAL SECTIONS, GENERAL NOTES SCHEDULE SUPERELEVATION RATES
3	DETAILS OF TAPERS, STREETS, & SIDEROADS
4	SCHEDULES

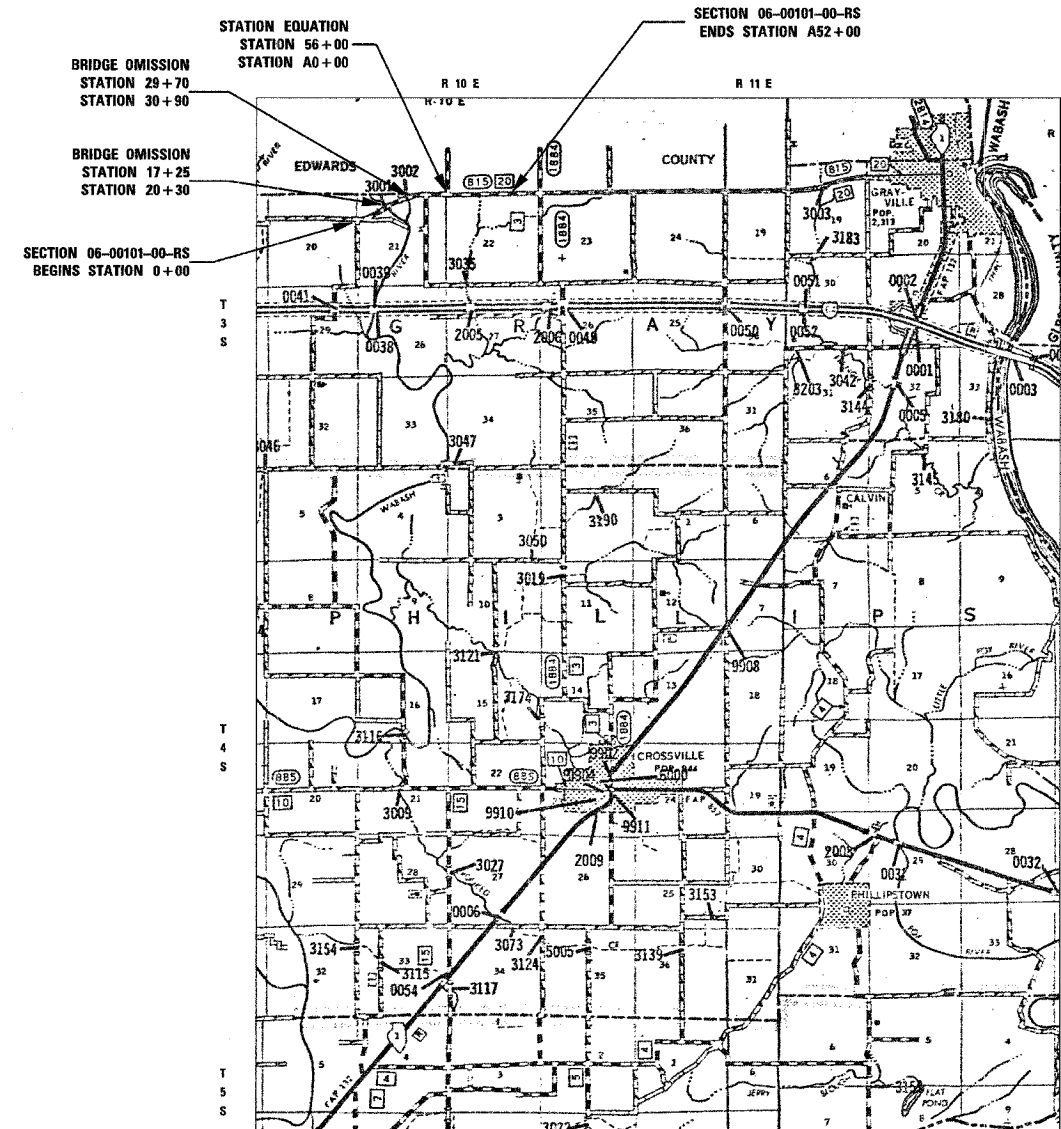
THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED AFTER SHEET 4.

000001-04	STANDARD SYMBOLS, ABBREVIATIONS & PATTERNS (6 SHEETS)
406201	MAILBOX TURNOUT
631006-04	TRAFFIC BARRIER TERMINAL TYPE 1B
631046-03	TRAFFIC BARRIER TERMINAL TYPE 10
701006-02	OFF-RD OPERATIONS, 2-L, 2-W, 4.5 m (15') TO PAVEMENT EDGE FOR SPEEDS ≥ 45 MPH
701301-02	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS.
701306-01	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS - DAY ONLY FOR SPEEDS ≥ 45 MPH
701311-02	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
702001-06	TRAFFIC CONTROL DEVICES (3 SHEETS)
780001-01	TYPICAL PAVEMENT MARKINGS (2 SHEETS)
781001-02	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	QUANTITY
• 21400100	GRADING AND SHAPING DITCHES	FOOT	200.00
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	1396.00
40600300	AGGREGATE (PRIME COAT)	TON	28.00
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	4559.00
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	444.50
40600990	TEMPORARY RAMP	SQ YD	37.00
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	1804.00
48101200	AGGREGATE SHOULDERS, TYPE B	TON	1300.00
Δ 50900205	STEEL RAILING, TYPE S1	FOOT	60.00
• 54223465	REMOVE & RELAY PIPE CULVERTS 30"	FOOT	15.00
• 54223471	REMOVE & RELAY PIPE CULVERTS 36"	FOOT	25.00
• 54223477	REMOVE & RELAY PIPE CULVERTS 42"	FOOT	10.00
Δ 63100041	TRAFFIC BARRIER TERMINAL, TYPE 1B	EACH	1.00
Δ 63100105	TRAFFIC BARRIER TERMINAL TYPE 10	EACH	1.00
• 67100100	MOBILIZATION	L SUM	1.00
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1.00
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1.00
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	4320.00
Δ 78001110	PAINT PAVEMENT MARKING-LINE 4"	FOOT	39902.00
Δ 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	150.00
• XX003140	SHORT-TERM PAVEMENT MARKING REMOVAL	FOOT	1080.00
• XX127400	PAVEMENT REMOVAL AND REPLACEMENT (SPECIAL)	TON	30.00

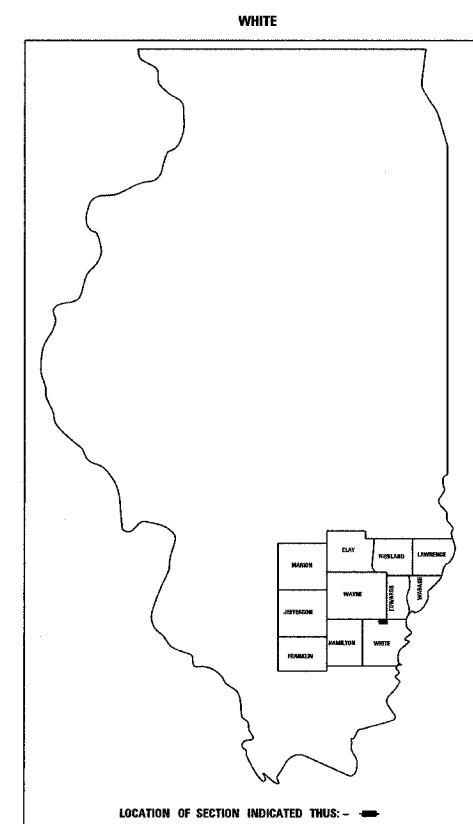
Δ SPECIALTY ITEMS



LAYOUT

APPROXIMATE SCALE 1 INCH = 1 MILE

	FEET	MILES
GROSS LENGTH	10800 FT	2.045 MILES
OMISSION	425 FT	0.080 MILES
NET LENGTH	10375 FT	1.965 MILES

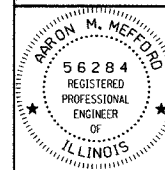


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NAME
Aaron Mefford
SIGNATURE
3-8-07
DATE
11-30-07
EXPIRES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED March 8, 2007
Jack Bosow
COUNTY ENGINEER

PASSED April 6, 2007
Don W. Hill
ENGINEER OF LOCAL ROADS AND STREETS

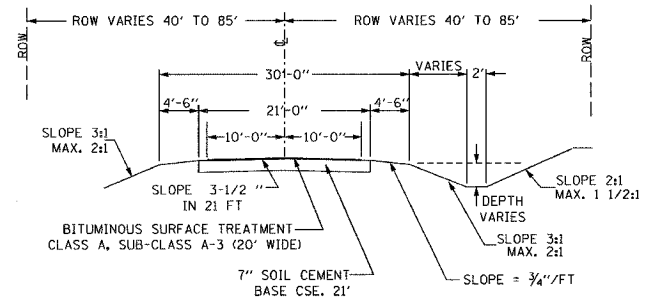
RELEASING FOR BID
BASED ON LIMITED
REVIEW 4-9-07
Mary C. Lamie
MARY C. LAMIE, P.E.
DEPUTY DIRECTOR OF HIGHWAY
REGION FIVE ENGINEER

CONTRACT # 99295
DESIGN CLASS - RURAL MAJOR COLLECTOR
DESIGN SPEED = 40 MPH
CURRENT A.D.T. = 610

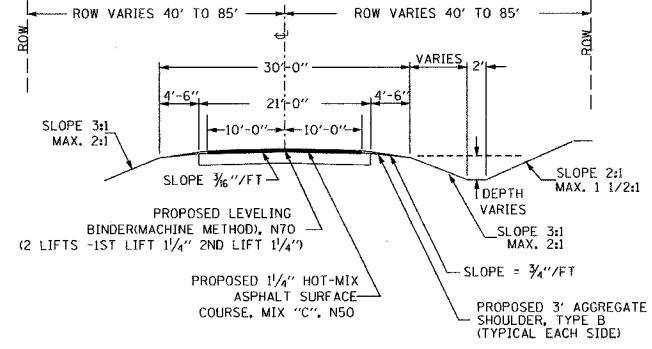
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
815	06-00101-00-RS	WHITE	4	2
FED. ROAD DIST. NO. 1		ILLINOIS	GRAYVILLE-BURNT PRAIRIE	
LEC JOB # H05L014WH			CONTRACT # 99295	

TYPICAL CROSS SECTION EXISTING



TYPICAL CROSS SECTION PROPOSED



GENERAL NOTES:

THIS SECTION CONSISTS OF PAVEMENT REMOVAL AND REPLACEMENT SPECIAL, LEVELING BINDER (MACHINE METHOD) N70, AND HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, AGGREGATE SHOULDERS, AND OTHER MISCELLANEOUS ITEMS NECESSARY TO COMPLETE THE PROJECT, ALL IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS AND "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2007.

THE EXISTING GRADE, ALIGNMENT, DRAINAGE STRUCTURES, BASE AND SURFACE WERE CONSTRUCTED UNDER SECTIONS 30-B AND 27-Q AND SHALL REMAIN IN PLACE. ALL STATIONS REFERRED TO IN THE PLANS AND PROPOSAL ARE REFERENCED TO THE ABOVE MENTIONED SECTIONS.

MAXIMUM PERCENT OF GRADE	4.20 %
MINIMUM STOPPING SIGHT DISTANCE	425 FT
DESIGN SPEED	50 MPH
CURRENT ADT	600 VPD
DESIGN ADT (20 YEAR)	750 VPD

THE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 SHALL BE PLACED IN ONE LIFT WITH A MINIMUM THICKNESS OF 1 1/4".

THE QUANTITY SHOWN IN THE SUMMARY OF QUANTITIES FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 ALLOWS 162.7 TON FOR THE INTERSECTIONS, SIDEROADS, AND TAPERS; 73.2 TON FOR THE ENTRANCES; 26.8 TON FOR THE MAILBOX TURNOUTS, AND 1541.0 TON FOR THE 1 1/4" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50.

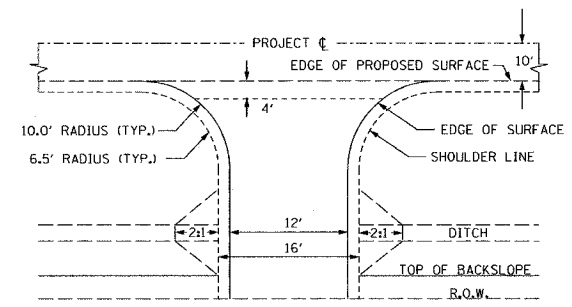
A HOT-MIX ASPHALT TAPER OF 0" TO 3 3/4" SHALL BE CONSTRUCTED FROM STATION 0+00 TO STATION 0+55 AND 3 3/4" TO 0" FROM STATION A151+50 TO STATION 152+00.

THE FOLLOWING RATES HAVE BEEN USED TO CALCULATE PLAN QUANTITIES:

AGGREGATE SHOULDERS TY. B	1.8 T / CU YD
HOT-MIX ASPHALT	0.0560 T / SQ YD * INCH
AGGREGATE PRIME COAT	0.001 T / SQ YD
BITUMINOUS MATERIAL (PRIME COAT)	0.05 GAL / SQ YD

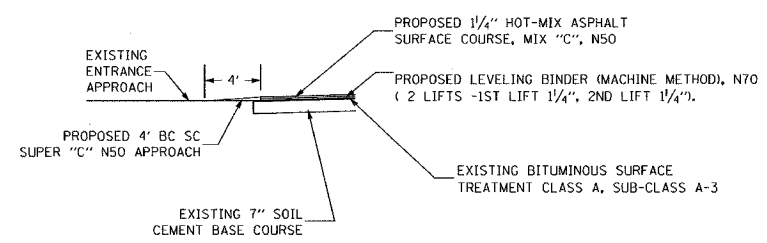
THE QUANTITY SHOWN IN THE SUMMARY OF QUANTITIES FOR GRADING AND SHAPING DITCHES ALLOWS 50 FOOT AT EACH END OF ALL PIPES TO BE REPLACED AT STATIONS SHOWN IN SCHEDULE OF AIR PIPE CULVERTS, CLASS C.

DETAIL OF PRIVATE AND FIELD ENTRANCES

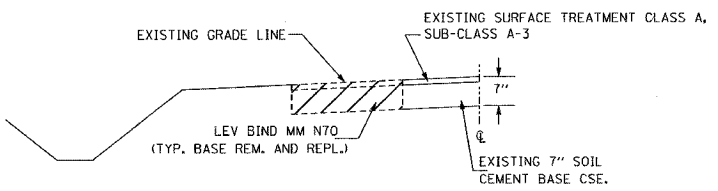


NOTE: THE 4' AREA FROM THE EDGE OF SURFACE, AS SHOWN ABOVE, SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 FOR THE PRIVATE ENTRANCES AND THE FIELD ENTRANCES. THIS QUANTITY IS INCLUDED IN THE QUANTITY FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50.

PRIVATE & FIELD ENTRANCE APPROACH DETAIL



DETAIL OF PAVEMENT REMOVAL AND REPLACEMENT SPECIAL

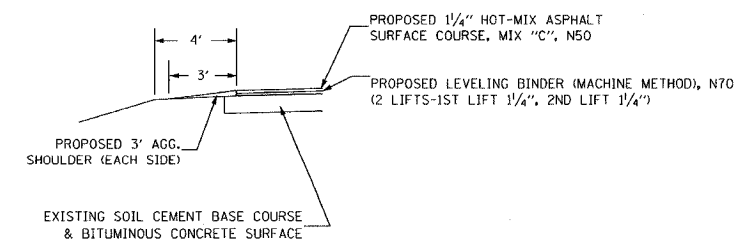


NOTE: IN THE TYPICAL DETAIL ABOVE THE DISTANCE FROM THE CENTERLINE LEFT OR RIGHT AND THE WIDTH OF PAVEMENT REMOVAL AND REPLACEMENT VARIES. SEE SCHEDULE OF PAVEMENT REMOVAL AND REPLACEMENT SPECIAL FOR PROPOSED LOCATIONS.

SCHEDULE FOR SUPERELEVATION RATES

CURVE #1
TANGENT RUNOFF BEGINS STA. 0+55.65
S.E. RUNOFF BEGINS STA. 0+83.65
FULL S.E. BEGINS STA. 1+59.65
FULL S.E. ENDS STA. 13+24.13
S.E. RUNOFF ENDS STA. 14+00.13
TANGENT RUNOFF ENDS STA. 14+28.13
S.E. RATE = 0.040 FT / FT
CURVE #2
TANGENT RUNOFF BEGINS STA. 24+10.31
S.E. RUNOFF BEGINS STA. 24+35.31
FULL S.E. BEGINS STA. 24+77.31
FULL S.E. ENDS STA. 36+66.78
S.E. RUNOFF ENDS STA. 37+08.78
TANGENT RUNOFF ENDS STA. 37+33.78
S.E. RATE = 0.025 FT / FT

AGGREGATE SHOULDER DETAIL



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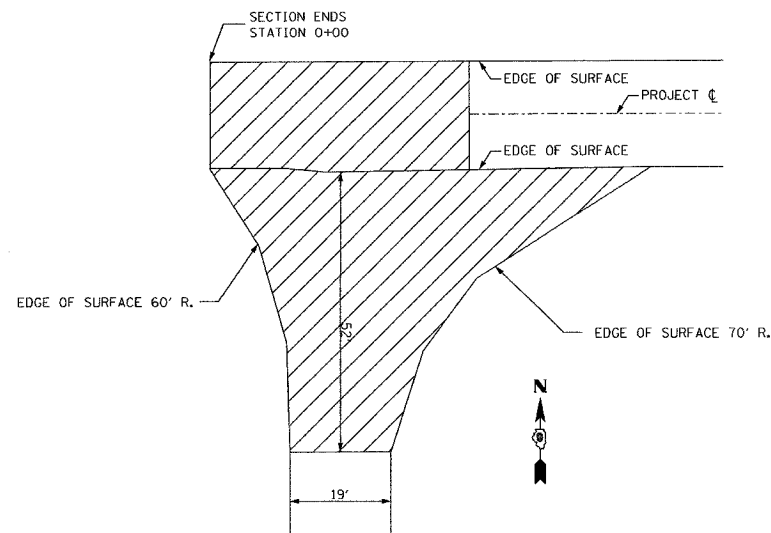


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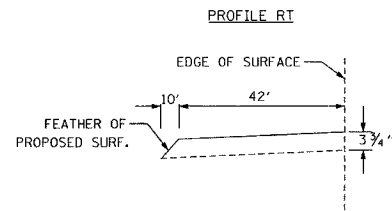
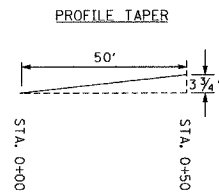
DETAILS OF SURFACING AT INTERSECTIONS AND SIDEROADS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
815	06-00101-00-RS	WHITE	4	3
FED. ROAD DIST. NO. 1	ILLINOIS	GRAYVILLE-BURNT PRAIRIE		
LEC JOB # H051014WH		CONTRACT # 98295		

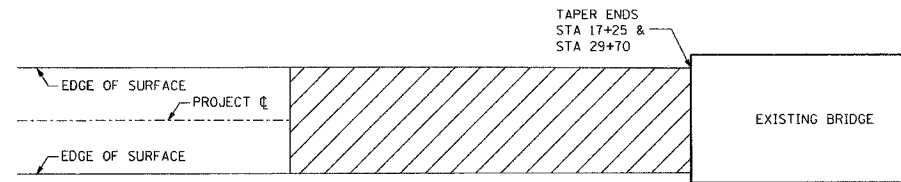
DETAIL OF TAPER STA. 0+00 TO STA. 0+50
DETAIL OF INTERSECTION 0+25 RT



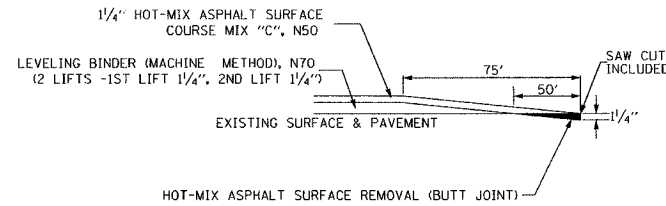
NOTE: THE QUANTITY SHOWN FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 INCLUDES 25.7 TONS OF MATERIAL FOR THE TAPER FROM STATION 0+00 TO STATION 0+50. IT ALSO INCLUDES 45.7 TONS OF MATERIAL FOR THE SIDEROAD RT. APPROACH AND RADII.



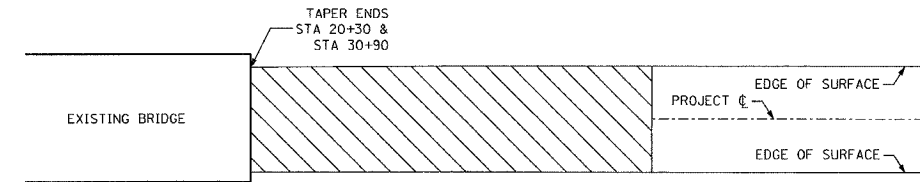
DETAIL OF TAPER STA. 16+50 TO STA. 17+25
& STA. 28+95 TO STA. 29+70



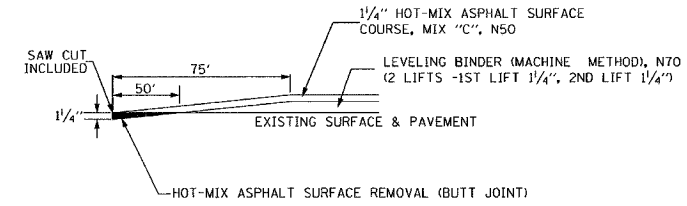
BUTT JOINT DETAIL
STA 16+50 TO STA 17+25 &
STA 28+95 TO STA 29+70



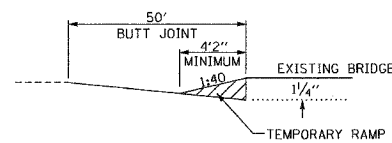
DETAIL OF TAPER STA. 16+50 TO STA. 17+25
& STA. 30+90 TO STA 31+65



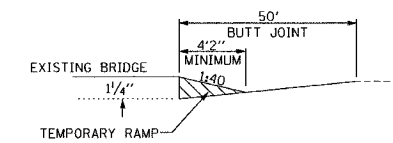
BUTT JOINT DETAIL
STA 20+30 TO STA 21+05
& STA 30+90 TO STA 31+65



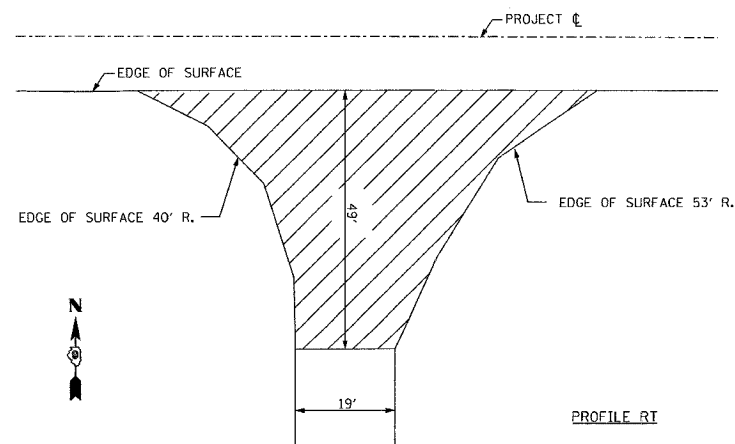
TEMPORARY RAMP DETAIL
STA 16+50 TO STA 17+25 &
STA 28+95 TO STA 29+70



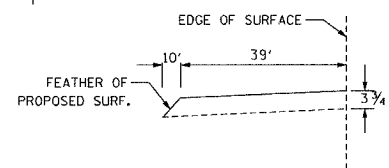
TEMPORARY RAMP DETAIL
STA 20+30 TO STA 21+05
& STA 30+90 TO STA 31+65



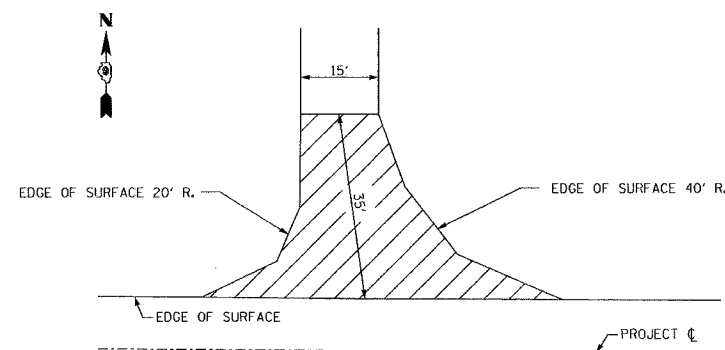
DETAIL OF INTERSECTION RT. STA. 43+33



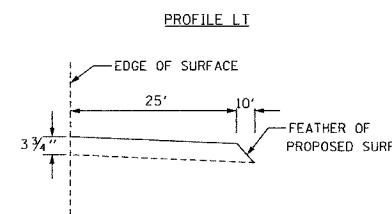
NOTE: THE QUANTITY SHOWN FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 INCLUDES 45.2 TONS OF MATERIAL FOR THE SIDEROAD APPROACH AND RADII.



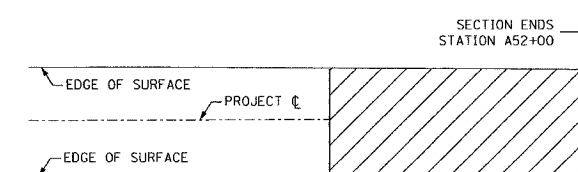
DETAIL OF INTERSECTION LT. STA. A0+27



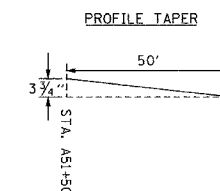
NOTE: THE QUANTITY SHOWN FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 INCLUDES 22.9 TONS OF MATERIAL FOR THE SIDEROAD APPROACH AND RADII.



DETAIL OF TAPER STA. A51+50 TO STA. A52+00



NOTE: THE QUANTITY SHOWN FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 INCLUDES 23.3 TONS OF MATERIAL FOR THE TAPER FROM STATION A51+50 TO STATION A52+00.

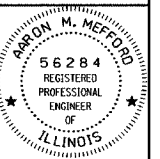


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EXPIRES

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
815	06-00101-00-RS	WHITE	4	4
FED. ROAD DIST. NO. 9		ILLINOIS	GRAYVILLE-BURNT PRAIRIE	
LEC JOB # H051014WH			CONTRACT # 99295	

SCHEDULE OF PAVEMENT MARKINGS

STATION	TO	STATION	LOCATION	LENGTH - FOOT	
CENTERLINE					
0+00		A52+00	☉	1049	
EDGE LINE					
0+65		43+10	RT.	4245	
43+60		56+00	RT.	1240	
A0+00		A52+00	RT.	5200	
EDGE LINE					
0+00		56+00	LT.	5600	
A0+00		A0+11	LT.	11	
A0+46		A52+00	LT.	5154	
NO PASSING					
0+00		8+20	RT.	820	
0+00		56+00	LT.	5600	
12+50		32+33	RT.	1983	
36+78		56+00	RT.	1922	
A0+00		A5+50	RT.	550	
A0+00		A21+60	LT.	2160	
A21+27		A49+45	RT.	2818	
A36+50		A52+00	LT.	1550	
				TOTAL	39,902

THE ABOVE QUANTITY IS SHOW IN THE PAVEMENT MARKING-LINE 4" IN THE SUMMARY OF QUANTITIES.

SCHEDULE OF MAILBOX TURNOUTS

STATION	LOCATION	EST. QUANTITY ALLOWED TONS
53+25	LT.	8.6
A8+14	LT.	5.3
A14+04	LT.	4.3
A50+12	LT.	8.6
		26.8

THE ABOVE QUANTITY IS INCLUDED IN THE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 IN THE SUMMARY OF QUANTITIES.

SCHEDULE OF REMOVE & RELAY PIPE CULVERTS

STATION	SIZE	LENGTH	END OF CULVERT
44+60	36"	5'	SOUTH
A1+57	30"	15'	SOUTH
A37+67	36"	20'	NORTH
A45+21	42"	10'	SOUTH

SCHEDULE OF PRIVATE AND FIELD ENTRANCES

STATION	LOCATION	BC SC SUPER "C" N50 (IN TONS)
0+25	LT	1.8
5+95	RT	1.8
12+40	RT	3.0
24+61	RT	3.9
25+13	LT	2.3
42+68	RT	2.4
43+24	LT	3.8
52+72	LT	4.0
53+62	RT	4.5
A0+13	RT	2.7
A4+21	RT	2.6
A8+15	RT	2.3
A13+77	RT	1.6
A17+14	LT	2.4
A18+71	RT	2.5
A21+48	RT	2.4
A23+55	RT	2.6
A26+42	LT	2.5
A32+98	RT	2.0
A33+93	RT	2.6
A36+62	LT	2.4
A39+90	RT	3.1
A43+29	RT	2.5
A46+56	RT	2.1
A48+12	LT	2.3
A48+99	LT	3.1
A49+17	RT	2.1
A51+00	LT	1.9
TOTAL		73.2

THE ABOVE QUANTITY IS INCLUDED IN THE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 IN THE SUMMARY OF QUANTITIES.

SCHEDULE OF PAV'T REMOVAL AND REPLACEMENT SPECIAL

STATION	TO	STATION	LOCATION	WIDTH (FEET)	SO. YD.	TON
37+95		38+40	RT. EDGE	3.0	15.0	5.9
A10+78		A11+65	RT. EDGE	3.0	29.0	11.4
A31+00		A31+55	RT. EDGE	3.0	18.3	7.2
A47+73		A48+11	RT. EDGE	3.0	12.7	5.0
				TOTALS	75.0	29.5

THE SCHEDULE ABOVE REFLECTS APPROXIMATE LOCATION AND ESTIMATED QUANTITIES. THE ACTUAL AREAS SHALL BE LOCATED AND MARKED BY THE ENGINEER PRIOR TO CONSTRUCTION. THE ABOVE QUANTITY IS INCLUDED IN PAVEMENT REMOVAL AND REPLACEMENT SPECIAL IN THE SUMMARY OF QUANTITIES.

SCHEDULE OF GUARDRAILS

STATION	TO	STATION	SIDE OF ROAD	LENGTH
30+90		31+50	LEFT	60'

SCHEDULE OF TRAFFIC BARRIER TERMINAL TYPE 1B

STATION	SIDE OF ROAD
31+50	LEFT

SCHEDULE OF AGGREGATE SHOULDER STONE IN TANGENT

STATION	TO	STATION	LOCATION	ALLOWED TONS EST. QUANTITY
14+28		17+25	LT.	18.3
20+30		24+10	LT	17.7
37+34		A52+00	LT	360.5
14+28		17+25	RT	14.3
20+30		24+10	RT	21.1
37+34		A52+00	RT	509.0
TOTAL				940.9

THE ABOVE QUANTITY IS FOR THE ENTIRE SECTION AND IS INCLUDED IN THE QUANTITY FOR AGGREGATE SHOULDERS, TYPE B IN THE SUMMARY OF QUANTITIES.

SCHEDULE OF AGGREGATE SHOULDER STONE IN SUPERELEVATION

STATION	TO	STATION	LOCATION	ALLOWED TONS EST. QUANTITY
0+00		14+28	LT.	66.4
24+10		29+70	LT	38.7
30+90		37+34	LT	40.6
0+00		14+28	RT.	147.9
24+10		29+70	RT.	26.9
30+90		37+34	RT.	38.7
TOTAL				359.1

THE ABOVE QUANTITY IS FOR THE ENTIRE SECTION AND IS INCLUDED IN THE QUANTITY FOR AGGREGATE SHOULDERS, TYPE B IN THE SUMMARY OF QUANTITIES.

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NAME
Aaron M. Mefford
SIGNATURE
3-8-07
DATE
11-30-07
EXPIRES