

ROUTE	SECTION	COUNTY	Total Sheets	Sheet No.
FAS 450	03-00125-00-RS	WARREN	3	1

PROJECT NO. RS-450(109)
CONTRACT NO. 89388

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PLANS FOR PROPOSED LOCAL AGENCY IMPROVEMENT STR PROJECT

INDEX OF SHEETS

1. COVER SHEET
2. SUMMARY OF QUANTITIES, ENTRANCE, INTERSECTION, AND BUTT JOINT DETAILS
3. TYPICAL CROSS SECTIONS OF ROADWAY

LIST OF STANDARDS (see proposal)

- 701001-01 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
- 701006-02
- 701011-01
- 701201-02
- 701301-02
- 701306-01
- 701311-02
- 702001-06
- 780001-01 TYPICAL PAVEMENT MARKINGS
- BLR 23-1 TRAFFIC BARRIER TERMINAL, TYPE I
- BLR 24-1 MAILBOX TURNOUT FOR LOCAL ROADS

DESIGN CRITERIA

- MIN. ROW 60'
- MAX. GRADE
- MIN. S.D.
- DESIGN SPEED 50 M.P.H.
- CURRENT A.D.T. 1000 (2000)
- FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR 3R GUIDELINES

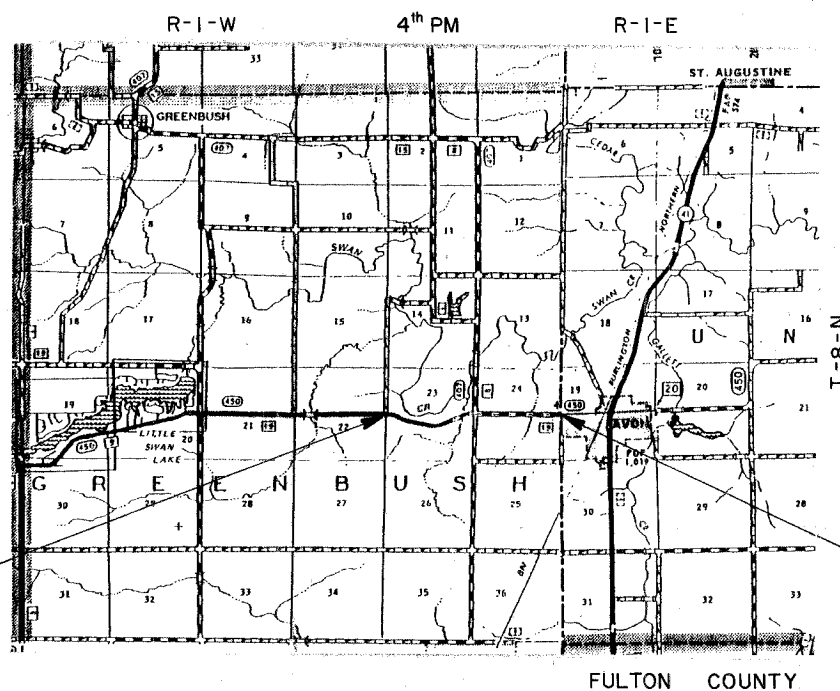
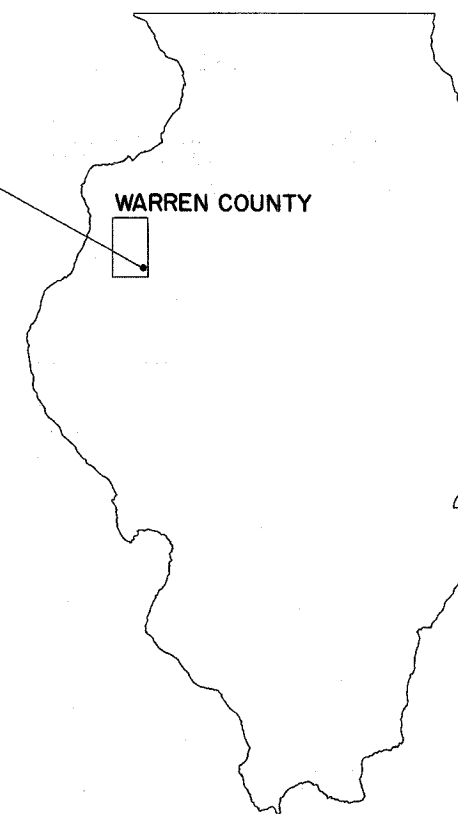
QC/QA BITUMINOUS PROJECT

JOB NO. C-94-025-06
CONTRACT NO. 89388

J.U.L.I.E. 1-800-892-0123

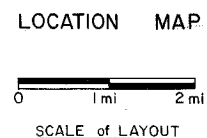
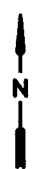
F.A.S. ROUTE 450 SECTION 03-00125-00-RS
PROJECT RS-450(109)

PROPOSED PROJECT LOCATION



PROPOSED IMPROVEMENT BEGINS STA. 0+00

PROPOSED IMPROVEMENT ENDS STA. 108+50



TOTAL and NET LENGTH of IMPROVEMENT: 10,850 Feet = 2.055 Miles



LICENSE EXPIRES 11/07 DATE

THESE PLANS WERE PREPARED BY ME OR A FULL TIME MEMBER OF MY STAFF WORKING UNDER MY PERSONAL SUPERVISION.

Jimmy B. Justus 4/17/06
JIMMY B. JUSTUS, P.E. 062-040197 DATE
COUNTY ENGINEER

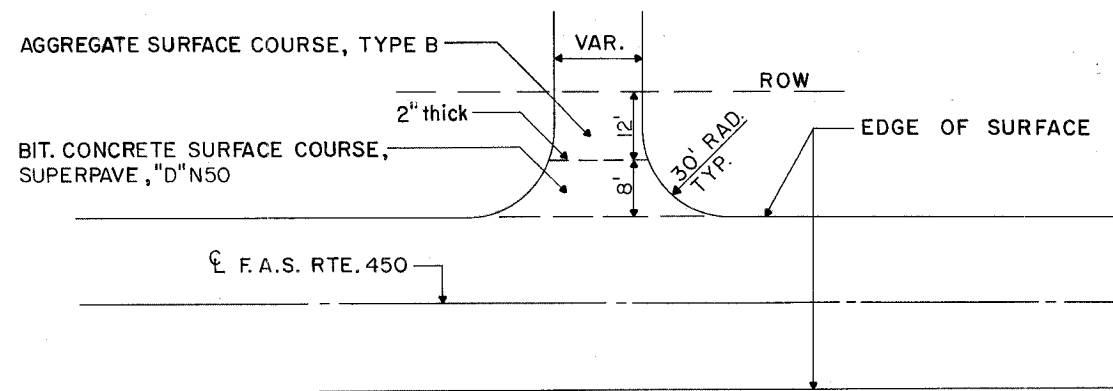
APPROVED	<i>April 17</i>	20 <u>06</u>
	<i>Jimmy B. Justus</i>	COUNTY ENGINEER
APPROVED		20 <u>06</u>
		ROAD COMMISSIONER
PASSED	<i>April 20</i>	20 <u>06</u>
	<i>John Laballe</i>	DISTRICT FOUR ENGINEER OF LOCAL ROADS & STREETS
Releasing For Bid Based on Limited Review	<i>April 21</i>	20 <u>06</u>
	<i>John Laballe</i>	DEPUTY DIRECTOR OF HIGHWAYS, REGION THREE ENGINEER
		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

CONSTRUCTION CODE: 1000

CODE NO.	ITEM	UNIT	QUANT.
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	90.0
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALS.	2,148.0
40600300	AGGREGATE (PRIME COAT)	TON	79.0
48101200	AGGREGATE SHOULDERS, TYPE B	TON	912.0
63000005 *	STEEL PLATE BEAM GUARDRAIL, TYPE B	FOOT	2,812.5
63200710	STEEL PLATE BEAM GUARDRAIL REMOVAL, TYPE A	FOOT	1,900.0
67100100	MOBILIZATION	L. SUM	1.0
70101700	TRAFFIC CONTROL AND PROTECTION	L. SUM	1.0
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	2,713.0
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ. FT.	905.0
78008210 *	POLYUREA PAVEMENT MARKING, TYPE 1 - LINE 4"	FOOT	37,841.0
LR631020 *	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	10.0
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	2,971.0
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	2,005.0
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	142.0
XX000405	BUTT JOINTS, SPECIAL	SQ. YD.	294.0
* Specialty Items			

ENTRANCE DETAIL



18 ENTRANCES AT 5 TONS = 90 TONS AGG. SURF. CSE., TY. B
 18 ENTRANCES AT 5 TONS = 90 TONS INCEDENTAL HOT-MIX ASPHALT
 4 MAILBOX TURNOUTS AT 3 TONS = 12 TONS INCEDENTAL HOT-MIX ASPHALT

PAVEMENT DESIGN DATA

PCC PAVEMENT SECTION

S.D.T. (2014) 1083 v.p.d. 15 Yr D.P.
 T.F. 0.500
 SN 2.87
 IBV 2.0
 (P.V. 95%, S.U. 3.5%, M.U. 1.5%)

BITUMINOUS SECTION

S.D.T. (2014) 1083 v.p.d. 15 Yr D.P.
 T.F. 0.080
 SN 3.15
 IBV 2.0
 (P.V. 95%, S.U. 3.5%, M.U. 1.5%)

Rate of application for Prime Coat

On Existing Pavement: 0.05 Gal/Sq. Yd.
 On Cold Milled Surface: 0.10 gals./sq. yd.
 On New Binder: 0.03 Gal/Sq. Yd.

Rate of application for Aggregate (Prime Coat)

On Existing Pavement: 4 lbs./sq. yd.
 On Cold Milled Surface: 4 lbs./sq. yd.
 On New Binder: 2 lbs./sq. yd.

BITUMINOUS MIXTURE REQUIREMENTS

Mixture Use(s)	Surface Course	Leveling Binder
AC/PG	64-22	64-22
RAP%	15%	15%
Design Air Voids	4.2% @ N = 50	4.2% @ N = 50
Mixture Composition	IL 9.5	IL 9.5
Friction Aggregate	Mixture "D"	N/A

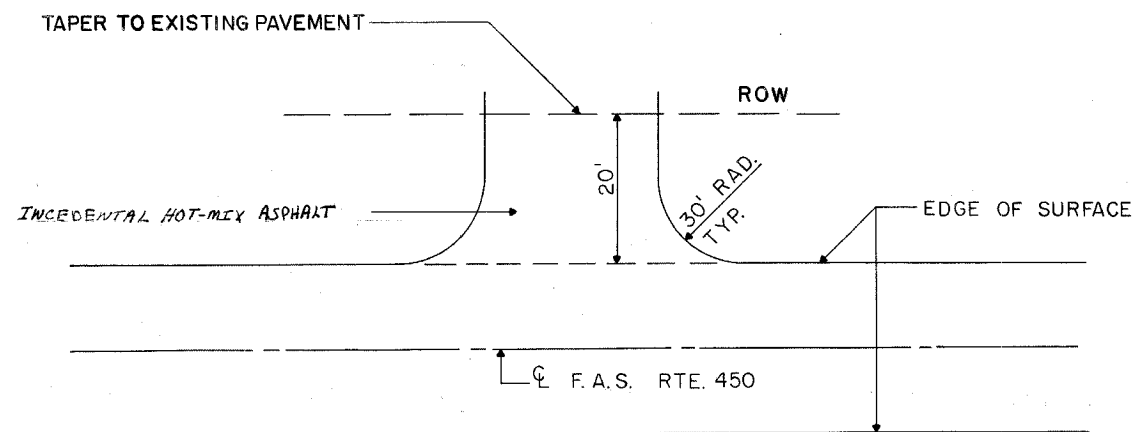
Steel Plate Beam Guardrail Stations

Left	Right	to	Total Feet
19+06.25	23+43.75		437.5
42+91.5	51+66.5		875.0
45+17	53+04.5		787.5
85+81	89+93.5		412.5
85+41	88+41		300.0
TOTAL LENGTH			2812.5

Traffic Barrier Terminal, Type 1 Stations

Left	Right	to
18+81.25	19+06.25	
23+43.75	23+68.75	
42+66.5	42+91.5	
51+66.5	51+91.5	
44+92	45+17	
53+04.5	53+29.5	
85+56	85+81	
89+93.5	90+18.5	
85+16	85+41	
88+41	88+66	

INTERSECTION DETAIL



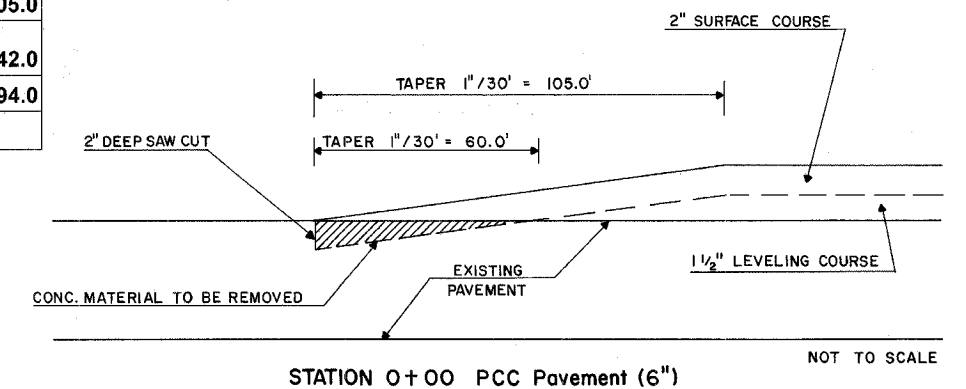
4 INTERSECTIONS AT 10 TONS
 TOTAL = 40 TONS

POLYUREA PAVEMENT MARKING BREAKDOWN

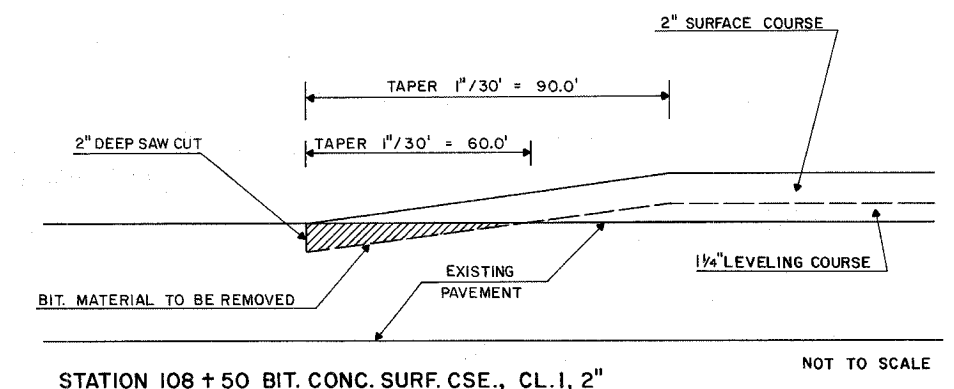
4" Yellow - Centerline 16,436 Feet
 4" White - Edge Stripe 21,405 Feet
 TOTAL 37,841 Feet

BUTT JOINT DETAIL

Stations
 0 + 00
 108 + 50



NOT TO SCALE



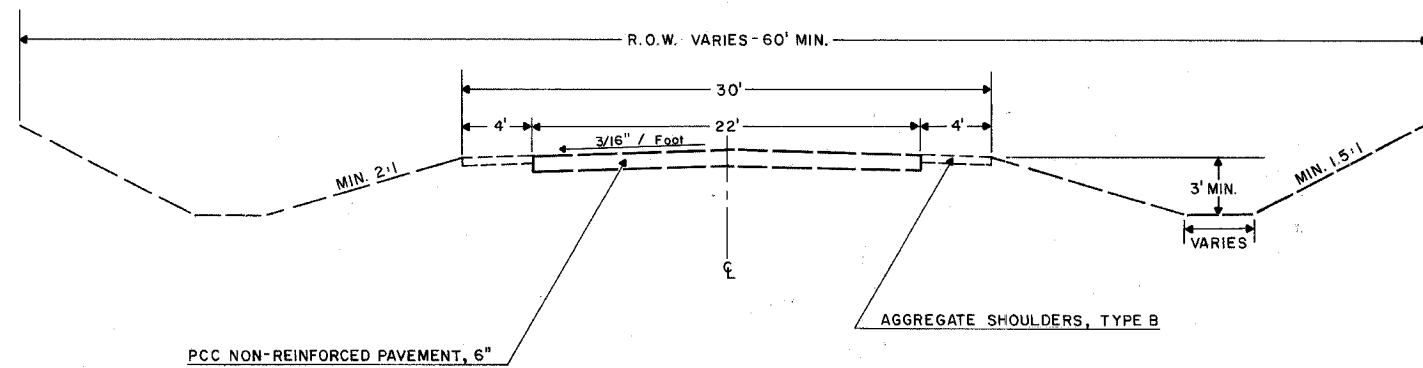
NOT TO SCALE

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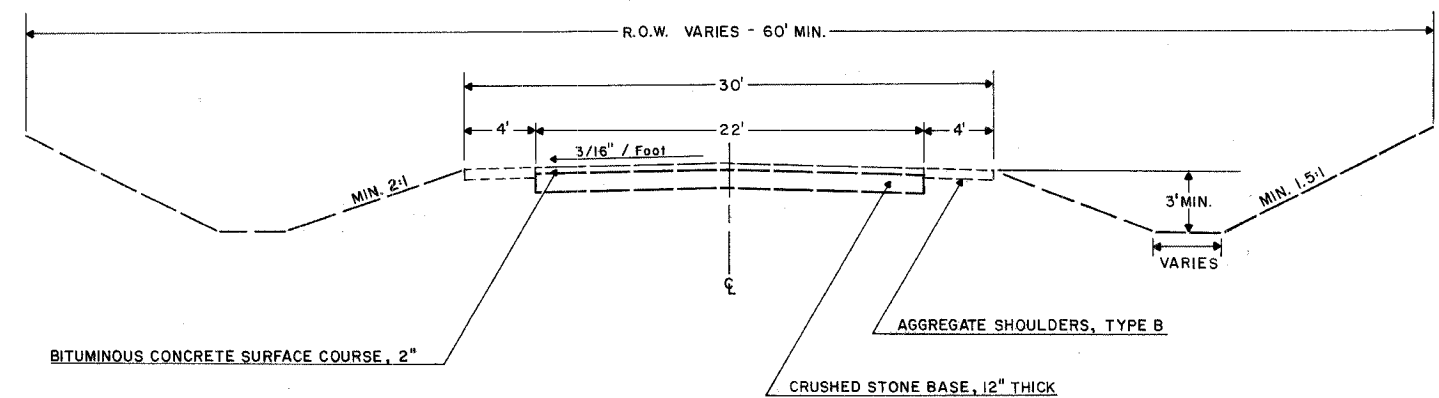
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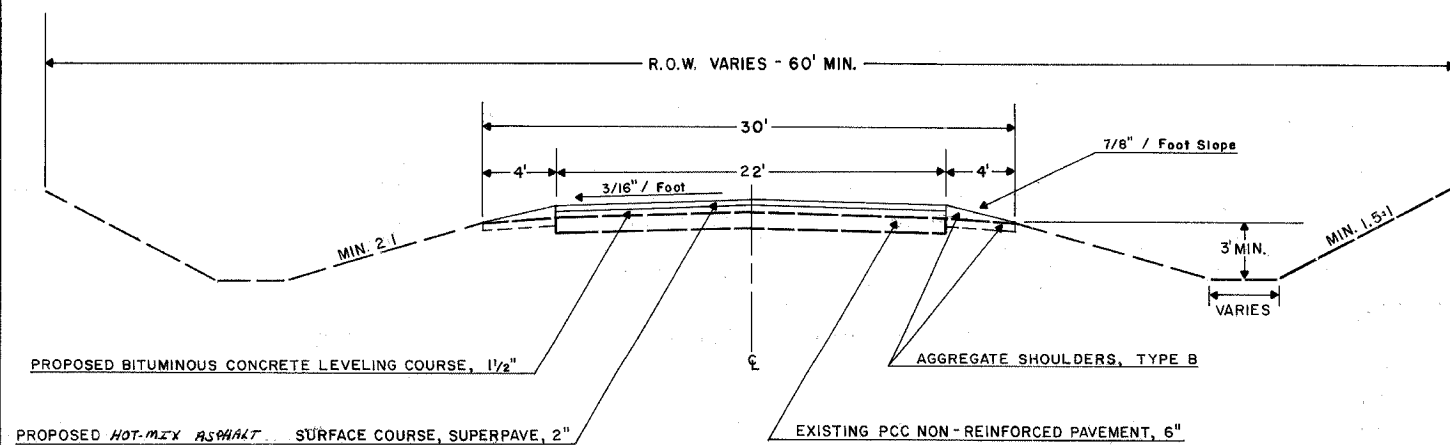
TYPICAL CROSS SECTION - EXISTING PCC PAVEMENT SECTION
STA. 0+00 to STA. 42+24



TYPICAL CROSS SECTION - EXISTING BITUMINOUS SECTION
STA. 42+24 to STA. 108+50



PROPOSED TYPICAL CROSS SECTION
STA. 0+00 to STA. 42+24



PROPOSED TYPICAL CROSS SECTION
STA. 42+24 to STA. 108+50

