

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

SBI ROUTE 11 (ELLIS/HIGHLAND RD)
SECTION S-RS, S-I-1

HALF SMART /SAFETY SHOULDERS
MADISON COUNTY

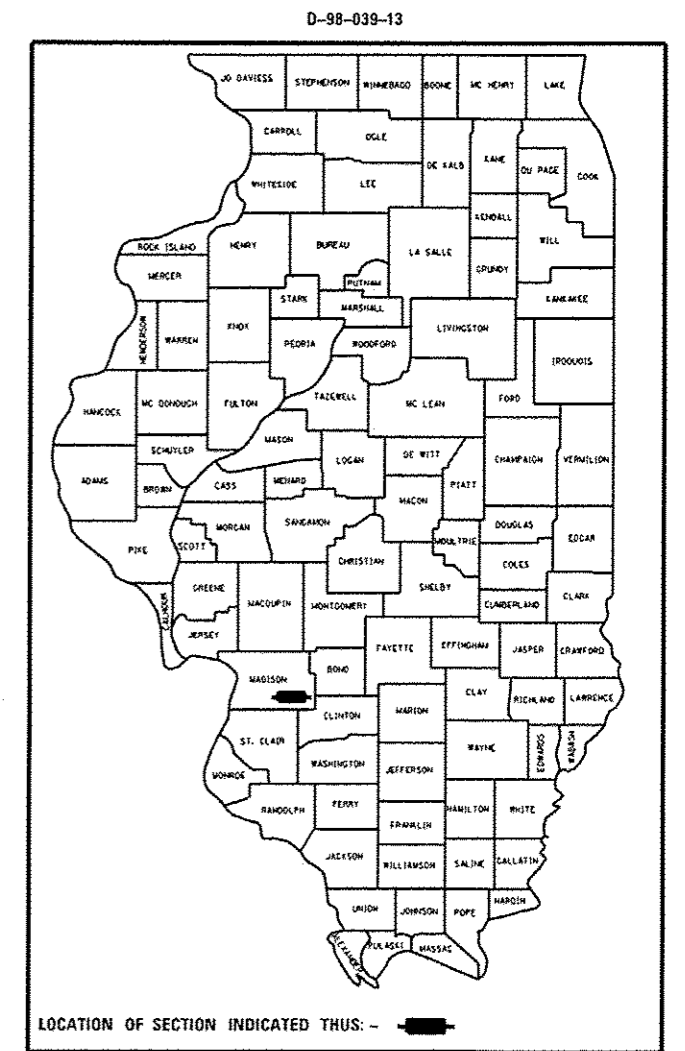
C-98-042-13

SBI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11	S-RS, S-I-1	MADISON	10	1
		ILLINOIS	CONTRACT NO. 76G40	

INDEX OF SHEETS

1. COVER SHEET
2. GENERAL NOTES, HIGHWAY STANDARDS, COMMITMENTS
3. SUMMARY OF QUANTITIES
- 4-5. TYPICAL SECTIONS
6. SCHEDULES OF QUANTITIES
- 7-8. LOCATION DETAILS
- 9-10. DETAILS

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 BUREAU OF
 DESIGN & ENVIRONMENT

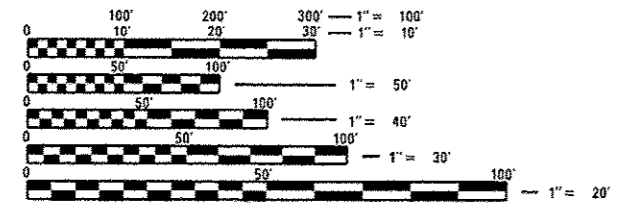
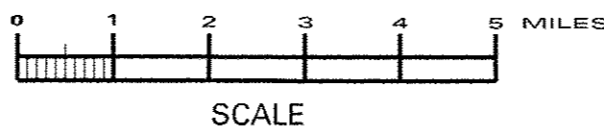
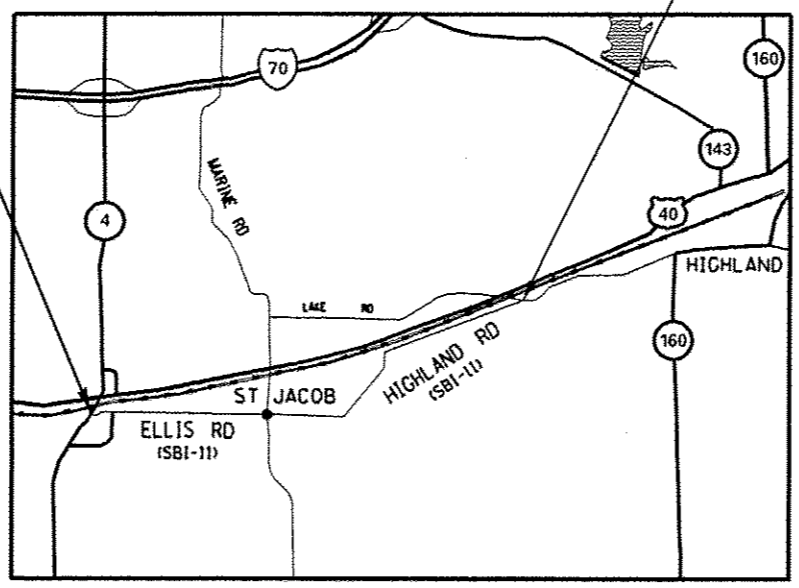


ADT
HIGHLAND ROAD
(2011) ACTUAL = 3925
(2012) ESTIMATED = 400
SU = 2.85%
MU = 2.2%

ELLIS ROAD
(2011) ACTUAL = 675
(2012) ESTIMATED = 675
SU = 5.15%
MU = 2.05%

BEGIN PROJECT STA 00+25
LAT. 38°42'49.55"N
LONG. 89°48'13.68"W

END PROJECT STA 259+78
LAT. 38°43'53.95"N
LONG. 89°43'16.18"W



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: TIM PADGETT (618) 346-3325
PROJECT MANAGER: PHIL COPPERNOLL (618) 346-3480

GROSS LENGTH = 25,953 FT. = 4.92 MILE
NET LENGTH = 25,953 FT. = 4.92 MILE

CONTRACT NO. 76G40

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED: Oct 29 20 13

Jeffrey Z. Kan
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Dec 6 20 13
John D. Baranzoni, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

Dec 6 20 13
Chris Ostrom, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

GENERAL NOTES

1.) ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO UTILITIES 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:

- AMERENIL
- AT&T ILLINOIS
- BOND MADISON WATER COMPANY
- CHARTER COMMUNICATIONS, INC.
- HOME TELEPHONE COMPANY
- VILLAGE OF ST. JACOB
- FRONTIER NORTH, INC.
- CITY OF HIGHLAND
- TRI-TOWNSHIP WATER DISTRICT

MEMBERS OF J.U.L.I.E. (800) 892-0123 OR 811 ARE INDICATED BY *. NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

2.) THE THICKNESS OF HMA LEVELING BINDER SHOWN ON THE PLANS IS A 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 HMA MIXTURE IS PLACED.

3.) ALL APPLICATION RATES SHOWN IN THE PLANS ARE NOMINAL. DEVIATIONS WILL BE ALLOWED AS SPECIFIED BY THE ENGINEER IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

4.) NO OVERNIGHT LANE CLOSURES WILL BE ALLOWED ON THIS PROJECT.

5.) ONE LANE WILL HAVE TO BE USED FOR BOTH DIRECTIONS. FLAGMEN SHALL BE PRESENT DURING ALL CLOSURE HOURS, INCLUDING LUNCH HOUR, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

6.) THE CONTRACTOR SHALL WAIT A MINIMUM OF TWO WEEKS, BUT SHALL NOT EXCEED THREE WEEKS, AFTER THE APPLICATION OF SEAL COAT AGGREGATE BEFORE INSTALLING PAINT PAVEMENT MARKINGS LINES.

7.) RESIDENT ENGINEER SHALL RECORD BEGINNING AND ENDING STATIONS OF NO PASSING ZONES.

8.) ROAD CONSTRUCTION AHEAD SIGNS (48" X 48") SHALL BE PLACED AT EACH END OF THE PROJECT PLUS THE INTERSECTING SIDEROADS, AND WILL BE CONSIDERED INCLUDED WITH THE TRAFFIC CONTROL PAY ITEM.

9.) THE FOLLOWING MIX REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT.

MIXTURE USE	LEVEL BINDER	INCIDENTAL HMA
AC/PG	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70
MIX COMPOSITION		
GRADATION MIXTURE	IL 9.5	IL 9.5
FRICTION AGG	MIXTURE "C"	MIXTURE "C"

MIXTURE USE	SHOULDERS >= 2.25'	SHOULDERS < 2.25'
AC/PG	PG 64-22	PG 64-22
DESIGN AIR VOIDS	**2.0% @ Ndes=30	**2.0% @ Ndes=30
MIX COMPOSITION	NMAS 3/4"	NMAS 3/4"
GRADATION MIXTURE		
FRICTION AGG		

** TOP LIFT SHOULDERS - DESIGN THIS MIX AT 2.0% VOIDS AND ADD ASPHALT TO REDUCE VOIDS TO 1.5%.

PLAN QUANTITIES FOR BITUMINOUS CONCRETE SURFACE COURSE ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LB/50 YD/IN.

10.) THE ILLINOIS DEPARTMENT OF TRANSPORTATION 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. PLEASE 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.

11.) TEMPORARY RAISED PAVEMENT MARKER QUANTITIES DETERMINED AS FOLLOWS:
 FOR SOLID LINE SPACING ASSUME ONE MARKER AT 5 FOOT CENTERS
 FOR SKIP DASH SPACING ASSUME ONE PAIR OF MARKERS SPACED 4 FEET APART EVERY 40 FEET
 FOR DOUBLE SOLID LINE SPACING ASSUME SIDE BY SIDE MARKERS AT 5 FOOT CENTERS

12.) EXCAVATION FOR SHOULDERS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PAY ITEM FOR HOT-MIX ASPHALT SHOULDERS, 8".

13.) THE PROPOSED PAVEMENT MARKING SHALL MATCH THE LOCATIONS OF THE EXISTING PAVEMENT MARKING, AS DIRECTED BY THE ENGINEER.

HIGHWAY STANDARDS

- 000001-06
- 001006
- 482001-02
- 701011-04
- 701201-04
- 701306-03
- 701311-03
- 701326-04
- 701901-03
- 780001-04

COMMITMENTS

NONE

ASSUMED APPLICATION RATES

AGGREGATE SURFACE COURSE, TYPE B = 0.00585 TONS/SQ. YD./IN
 BITUMINOUS MATERIALS (PRIME COAT)
 = 0.0003129 TONS/SQ YD (OVER PCC/HMA BASE)
 = 0.001564 TONS/SQ YD (OVER AGGREGATE BASE)
 INCIDENTAL HOT MIX ASPHALT SURFACING = 0.056 TONS/SQ YD/IN
 AGGREGATE (PRIME COAT)
 = 0.0015 TONS/SQ YD (OVER PCC/HMA BASE)
 = 0.0025 TONS/SQ YD (OVER AGGREGATE BASE)
 LEVELING BINDER (MACHINE METHOD), N70 = 0.056 TONS/SQ YD/IN
 AGGREGATE SHOULDERS, TYPE B = 2.1 TONS/CU YD

100% STATE

CONSTRUCTION CODE

100% STATE

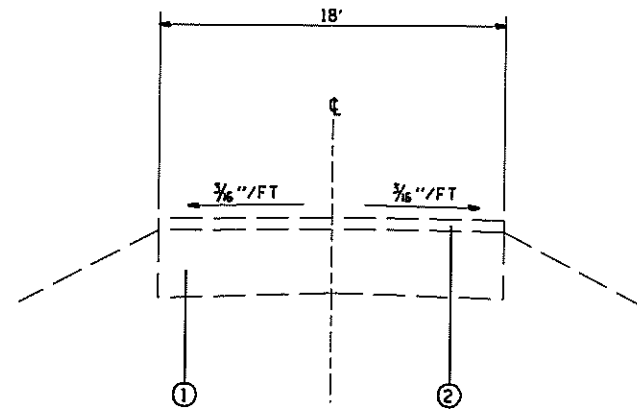
CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY 0005 RURAL	ROADWAY 0021 RURAL
				40200800	AGGREGATE SURFACE COURSE, TYPE B
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	8.9	8.9	
40600300	AGGREGATE (PRIME COAT)	TON	42.6	42.6	
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	1190	1190	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	433	433	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	8	8	
44200150	PAVEMENT PATCHING, TYPE IV, 12 INCH	SO YD	178	178	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	690	690	
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SO YD	11145		11145
67100100	MOBILIZATION	L SUM	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1		1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1	

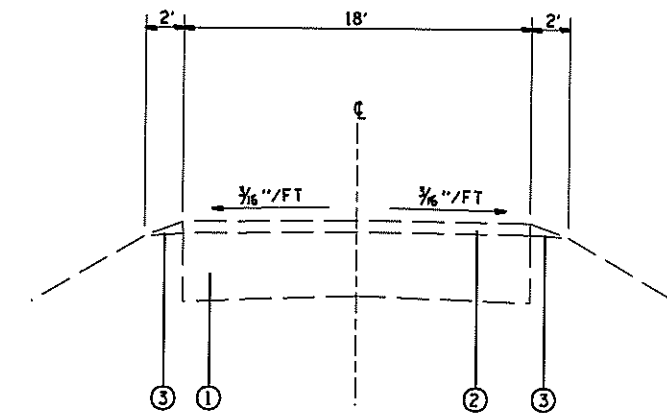
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY 0005 RURAL	ROADWAY 0021 RURAL
				70300100	SHORT TERM PAVEMENT MARKING
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	121671	121671	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	21323	21323	
*78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	61745	61745	
X0326216	BITUMINOUS SURFACE TREATMENT, (PREVENTIVE MAINTENANCE)	SO YD	28316	28316	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
X7810400	TEMPORARY RAISED PAVEMENT MARKER	EACH	2303	2303	

7

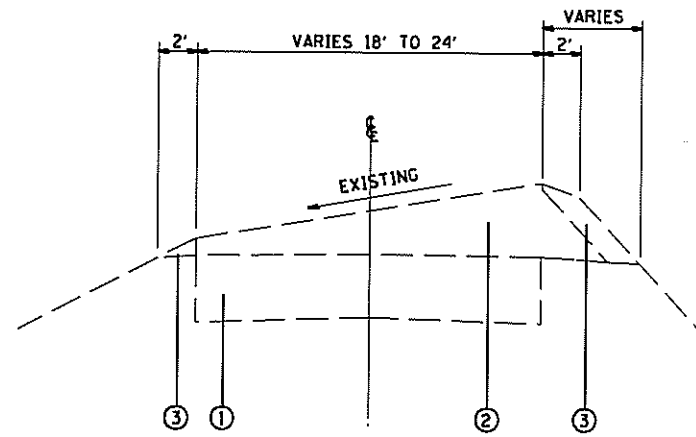
* SPECIALTY ITEM



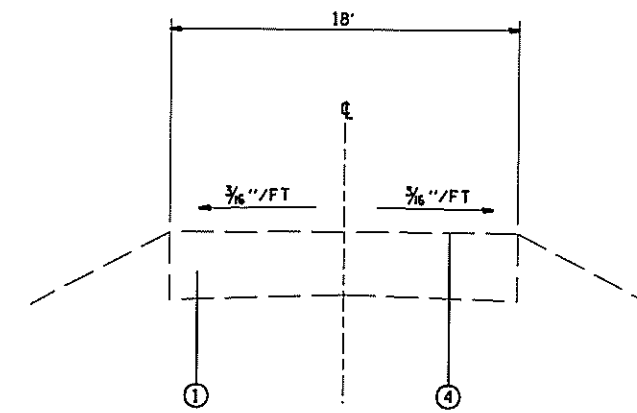
EXISTING TYPICAL SECTION
STA 00+25 TO STA 115+10



EXISTING TYPICAL SECTION
STA 115+10 TO STA 137+81
STA 140+98 TO STA 144+67



EXISTING SUPERELEVATED SECTION
VARIABLE WIDTH FROM STA 137+81 TO STA 139+92 AND STA 138+86 TO STA 140+98
24' WIDTH FROM STA 137+81 TO STA 138+86

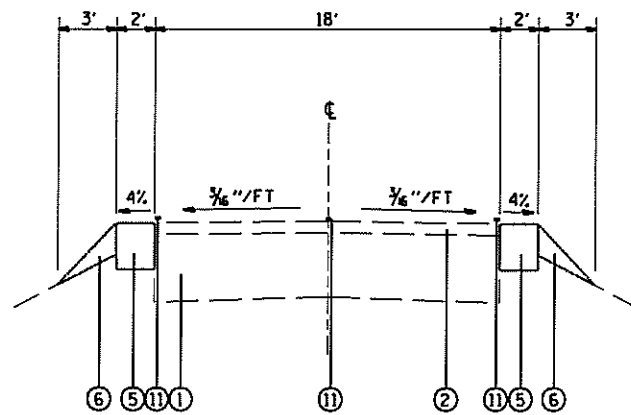


EXISTING TYPICAL SECTION
STA 144+67 TO STA 259+78

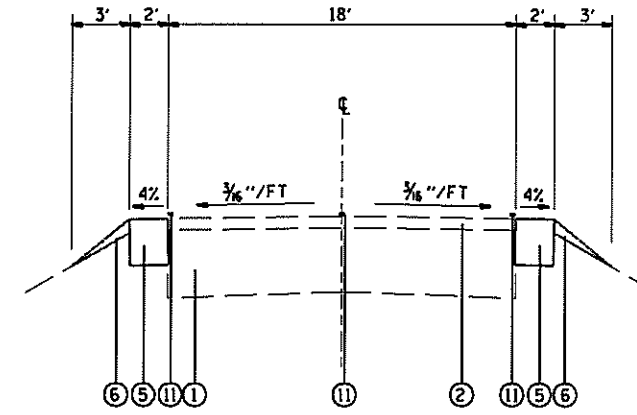
LEGEND

- ① EXISTING PAVEMENT
- ② EXISTING RESURFACING 2" (MIN)
- ③ EXISTING AGGREGATE SHOULDER
- ④ EXISTING OIL AND CHIP TREATMENT
- ⑤ PROPOSED HOT-MIX ASPHALT SHOULDERS, 8"
- ⑥ PROPOSED AGGREGATE SHOULDER, TYPE B
- ⑦ PROPOSED LEVELING BINDER MACHINE METHOD, N70 - 3/4"
- ⑧ PROPOSED BITUMINOUS SURFACE TREATMENT (PREVENTIVE MAINTENANCE)
- ⑨ PROPOSED AGGREGATE (PRIME COAT)
- ⑩ PROPOSED BITUMINOUS MATERIALS (PRIME COAT)
- ⑪ PROPOSED PAINT PAVEMENT MARKING LINE, 4"

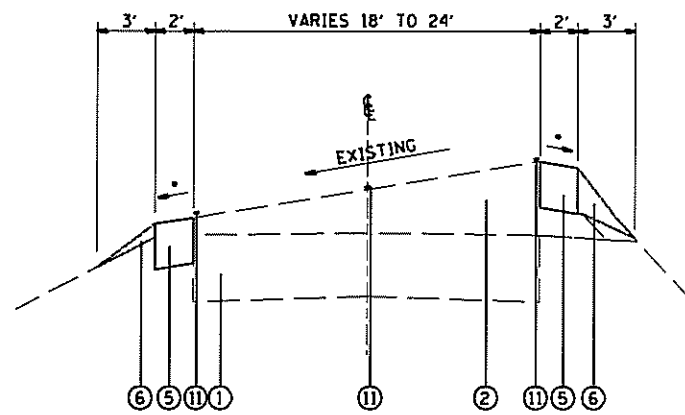
FILE NAME * #FILEL4	USER NAME = #USER*	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS	SBI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = #SCALE*	CHECKED - _____	REVISED - _____			11	S-RS, 5-1-1	MADISON	10	4
	PLOT DATE = #DATE*	DATE - _____	REVISED - _____			SCALE: _____ SHEET NO. 1 OF 2 SHEETS STA. _____ TO STA. _____		CONTRACT NO. 76C40 FED. ROAD DIST. NO. , ILLINOIS FED. AID PROJECT		



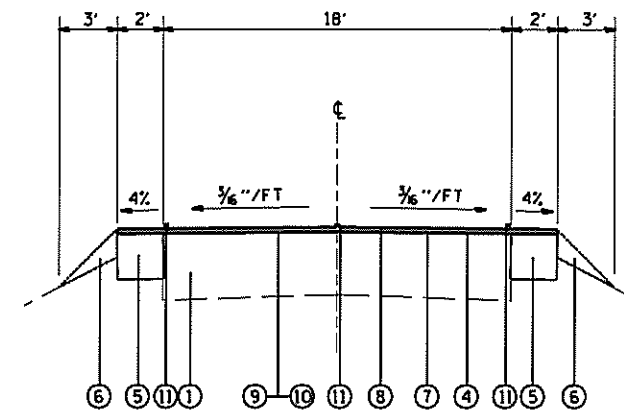
PROPOSED TYPICAL SECTION
(ELLIS ROAD)
STA 00+25 TO STA 115+10



PROPOSED TYPICAL SECTION
(ELLIS ROAD)
STA 115+10 TO STA 137+81
STA 140+98 TO STA 144+67



PROPOSED SUPERELEVATED SECTION
(ELLIS ROAD)
VARIABLE WIDTH FROM STA 137+81 TO STA 139+92 AND STA 138+86 TO STA 140+98
24' WIDTH FROM STA 137+81 TO STA 138+86
*SEE STANDARD 482001



PROPOSED TYPICAL SECTION
(HIGHLAND ROAD)
STA 144+67 TO STA 259+78

- LEGEND**
- ① EXISTING PAVEMENT
 - ② EXISTING RESURFACING 2" (MIN)
 - ③ EXISTING AGGREGATE SHOULDER
 - ④ EXISTING OIL AND CHIP TREATMENT
 - ⑤ PROPOSED HOT MIX ASPHALT SHOULDERS, 8"
 - ⑥ PROPOSED AGGREGATE SHOULDER, TYPE B
 - ⑦ PROPOSED LEVELING BINDER MACHINE METHOD, N70 - 3/4"
 - ⑧ PROPOSED BITUMINOUS SURFACE TREATMENT (PREVENTIVE MAINTENANCE)
 - ⑨ PROPOSED AGGREGATE (PRIME COAT)
 - ⑩ PROPOSED BITUMINOUS MATERIALS (PRIME COAT)
 - ⑪ PROPOSED PAINT PAVEMENT MARKING LINE, 4"

FILE NAME =	USER NAME = *USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS			SBI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILEL		DRAWN -	REVISED -		SCALE: _____	SHEET NO. 2 OF 2 SHEETS	STA. _____ TO STA. _____	11	S-RS, S-1-1	MADISON	10	5
		CHECKED -	REVISED -					CONTRACT NO. 76G40				
		DATE -	REVISED -					FED. ROAD DIST. NO. , ILLINOIS FED. AID PROJECT				

ENTRANCE SCHEDULE					
LOCATION	DESCRIPTION	LENGTH	WIDTH	INCIDENTAL HMA SURFACING	AGGREGATE SURFACE COURSE, TYPE B
		FOOT	FOOT	TONS	TONS
5+07 LT	PE	3	60		1.76
6+00 LT	PE	3	30	0.84	
7+20 RT	PE	3	32		0.94
7+80 LT	CE	3	180		5.27
13+84 RT	PE	3	115		3.36
16+13 LT	PE	3	45		1.32
17+77 LT	PE	3	67		1.96
22+64 RT	CE	3	73		2.14
23+34 LT	PE	3	25		0.73
30+61 RT	PE	3	64		1.87
33+84 LT	PE	3	19		0.56
43+95 LT	FE	3	26		0.76
46+12 RT	PE	3	50		1.46
48+23 LT	FE	3	30		0.88
61+83 RT	FE	3	30		0.88
65+74 LT	PE	3	78		2.28
69+18 LT	FE	3	30		0.88
74+93 LT	FE	3	30		0.88
75+41 RT	PE	3	35	0.98	
78+25 RT	PE	3	35		1.02
78+81 RT	PE	3	30		0.88
79+49 LT	FE	3	50		1.46
80+45 RT	PE	3	20		0.59
82+03 RT	PE	3	30	0.84	
84+53 RT	PE	3	25	0.70	
89+06 RT	PE	3	25	0.70	
89+99 LT	PE	3	30		0.88
91+49 LT	PE	3	25	0.70	
91+73 RT	PE	3	30	0.84	
92+28 RT	PE	3	20		0.59
92+96 RT	PE	3	15		0.44
93+68 RT	PE	3	25		0.73
93+73 LT	PE	3	22	0.62	
94+69 LT	PE	3	40	1.12	
95+54 LT	PE	3	25		0.73
96+26 RT	PE	3	70		2.05
96+76 RT	PE	3	40		1.17
97+13 RT	PE	3	40		1.17
99+37 LT	PE	3	24	0.67	
100+45 LT	PE	3	67		1.96
103+70 LT	PE	3	100		2.93
103+77 RT	Parking Lane	3	350		10.24
104+14 LT	CE	3	65		1.90
108+58 LT	PE	3	20		0.59
109+50 LT	PE	3	70		2.05
112+50 LT	PE	3	50		1.46
113+69 LT	PE	3	25		0.73
114+57 LT	PE	3	20		0.59
118+20 LT	PE	3	45		1.32
118+50 RT	PE	3	50		1.46
120+61 LT	FE	3	30		0.88
121+47 RT	FE	3	30		0.88
130+33 RT	FE	3	20		0.59
133+26 RT	FE	3	20		0.59
141+86 LT	PE	3	32		0.94
141+86 RT	FE	3	30		0.88
147+50 RT	FE	3	30		0.88
175+89 RT	FE	3	30		0.88
191+07 LT	CE	3	120		3.51
207+29 LT	FE	3	30		0.88
261+12 RT	FE	3	30		0.88
TOTAL				8.01	76.58

RESURFACING SCHEDULE				
STATION	LEVELING BINDER (MACHINE METHOD), N70 3/4 IN THICK	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	BITUMINOUS SURFACE TREATMENT (PREVENTIVE MAINTENANCE)
144+67 TO 259+78	1182	8.80	42.21	28138
HIGHLAND LAKE RD INTERSECTION PATCH*	8	0.06	0.27	178
TOTAL	1190	8.86	68.96	28316

*BASED ON MEASURED AREA OF APPROXIMATELY 178 SQ YD (SEE DETAIL A ON SHEET 8 OF 10)

HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT				
STATION	LENGTH (FT)	WIDTH (FT)	SQ YD	
144-67 TO 144+67	15	24	40.00	
218-87 TO 258+63	15	242	403.33	
TOTAL			433.33	

SHOULDER SCHEDULE					
LOCATION			LT/RT	HOT-MIX ASPHALT SHOULDERS, 8''' (SQ YD)	AGGREGATE SHOULDERS, TYPE B (TON)
STA	TO	STA			
0+25	TO	14+36	RT	314	21
15+80	TO	35+20	RT	431	28
35+60	TO	48+41	RT	285	19
48+71	TO	87+82	RT	869	57
88+30	TO	95+15	RT	152	10
95+55	TO	98+17	RT	58	4
102+07	TO	141+59	RT	878	58
142+30	TO	218+42	RT	1692	111
218+87	TO	259+78	RT	909	60
0+25	TO	10+70	LT	232	15
11+24	TO	12+80	LT	35	2
13+26	TO	17+45	LT	93	6
17+90	TO	20+68	LT	62	4
21+24	TO	80+89	LT	1326	87
81+32	TO	83+52	LT	49	3
84+17	TO	86+86	LT	60	4
87+26	TO	95+88	LT	214	14
98+42	TO	100+79	LT	53	3
102+87	TO	105+56	LT	60	4
108+11	TO	110+96	LT	108	7
111+51	TO	115+53	LT	89	6
115+98	TO	258+96	LT	3177	209
TOTAL				11145	690 *****

**EXCAVATION FOR SHOULDERS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PAY ITEM FOR HOT-MIX ASPHALT SHOULDERS, 8".

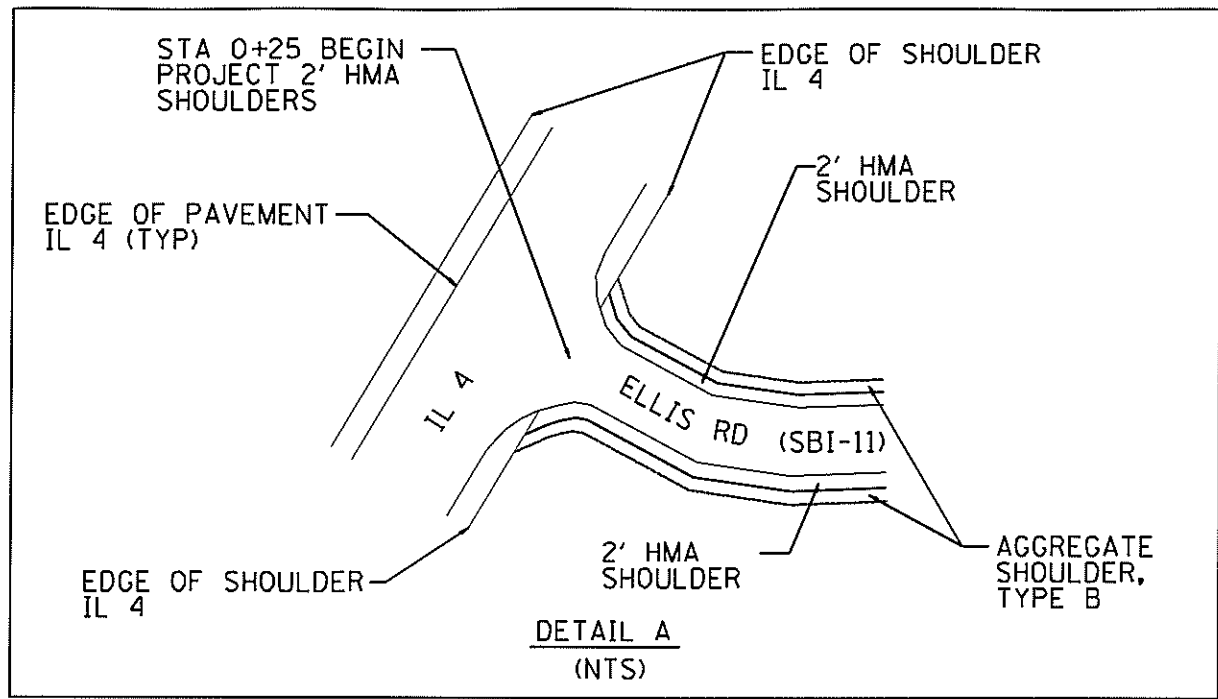
*****QUANTITY FOR AGGREGATE SHOULDERS, TYPE B REDUCED BY 42 TONS TO OMIT AGGREGATE SHOULDERS, TYPE B AT THE ENTRANCES. INCIDENTAL HMA SURFACING OR AGGREGATE SURFACE COURSE, TYPE B WILL BE PLACED AT THE ENTRANCES INSTEAD. SEE ENTRANCE SCHEDULE.

PAINT PAVEMENT MARKING - LINE 4'						
STATION			WHITE		YELLOW	
			RIGHT EDGE LINE	LEFT EDGE LINE	SOLID SINGLE NPZ	SKIP DASH YELLOW
13+20	TO	14+49	1435			
13+20	TO	86+37		8612		
15+56	TO	35+11	1955			
35+52	TO	46+02	1250			
48+76	TO	87+76	3900			
87+10	TO	88+42		132		
88+18	TO	88+42	24			
88+49	TO	97+71		922		
88+49	TO	88+25	976			
98+31	TO	101+42	311			
98+31	TO	101+42		311		
101+98	TO	218+42	11644			
101+98	TO	105+46		348		
106+00	TO	110+84		484		
111+34	TO	115+48		414		
115+83	TO	258+72		14289		
218+87	TO	259+78	4091			
13+20	TO	175+57				4390
193+47	TO	259+13				1650
171+50	TO	175+57			407	
193+47	TO	199+67			620	
175+57	TO	193+47				3580
SUBTOTAL			25586	25512	1027	6040
TOTAL			51098		10647	
GRAND TOTAL			61745			

*** EB NPZ

**** WB NPZ

4



STA 0+25 BEGIN PROJECT 2' HMA SHOULDERS SEE DETAIL A

ELLIS RD (SBI-11)

HIGHLAND RD (SBI 11)
 STA 144+67 BEGIN HALF SMART CONTINUE 2' HMA SHOULDERS

STA 0+00 CL IL ROUTE 4

STA 15+08 OLD STATE ROUTE 4

STA 35+40 MALIA DR

STA 48+41 CYPRESS RD

STA 88+06 PARK DR

STA 86+86 OLVIA ST

STA 98+07 JACOB ST

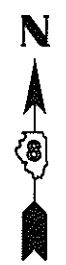
STA 105+84 NAPOLEON ST

STA 111+24 WASHINGTON ST

STA 115+76 JEFFERSON ST

STA 101+77 DOUGLAS ST

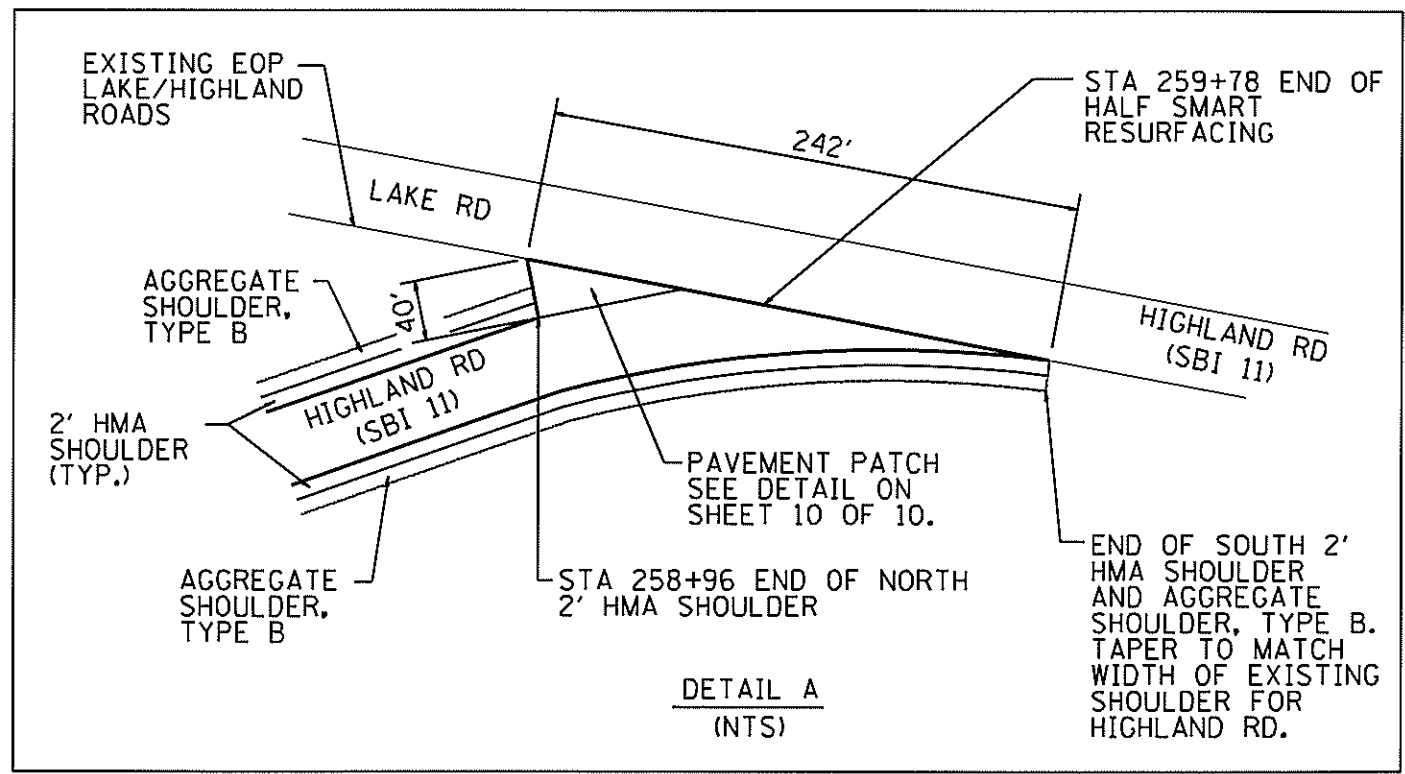
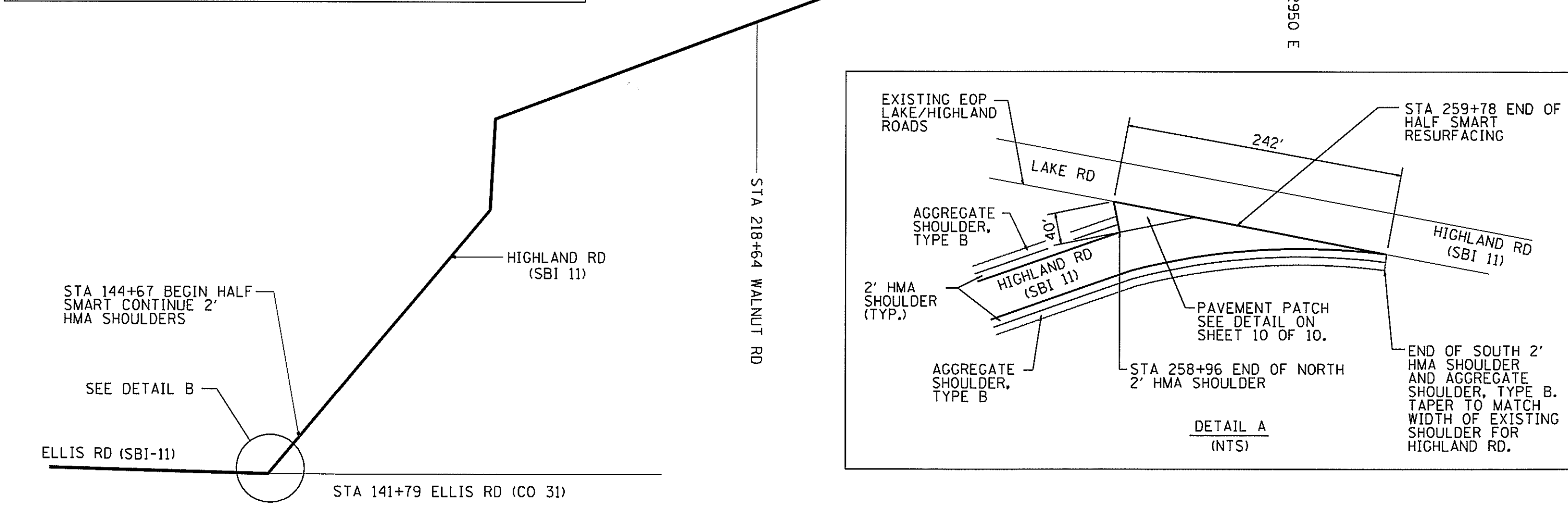
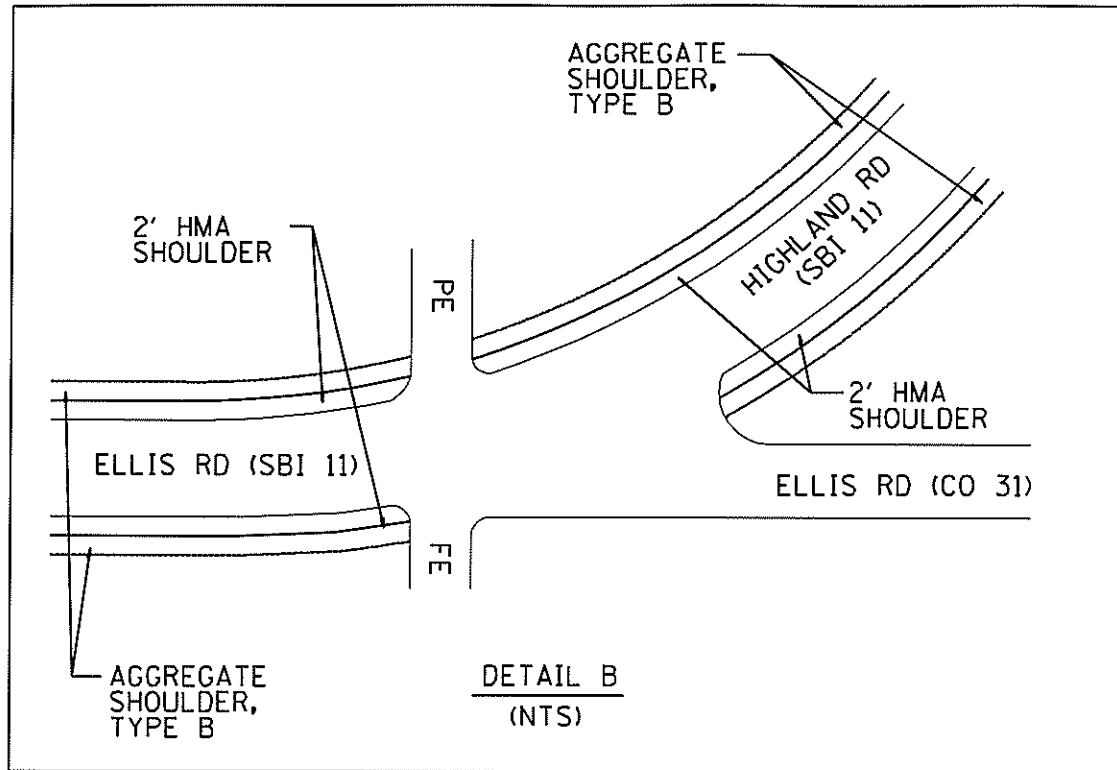
STA 141+79 ELLIS RD (CO 31)



CONTINUED ON SHEET 8 OF 10

SCALE 1" = 500'

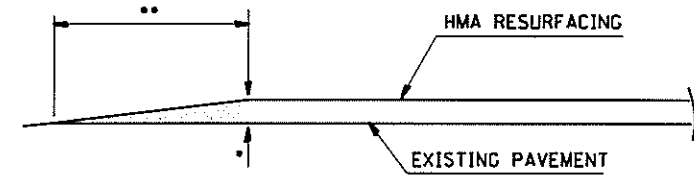
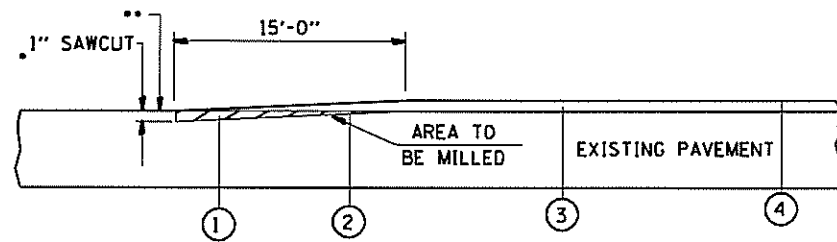
FILE NAME * *FILE#	USER NAME * #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION DETAILS			SBI RTE. II	SECTION S-RS, S-1-1	COUNTY MADISON	TOTAL SHEETS 10	SHEET NO. 7
	PLOT SCALE * #SCALE#	CHECKED -	REVISED -		SCALE: _____	SHEET NO. 1 OF 2 SHEETS	STA. _____	TO STA. _____	CONTRACT NO. 76G40			
	PLOT DATE * #DATE#	DATE -	REVISED -		FED. ROAD DIST. NO. , ILLINOIS FED. AID PROJECT							



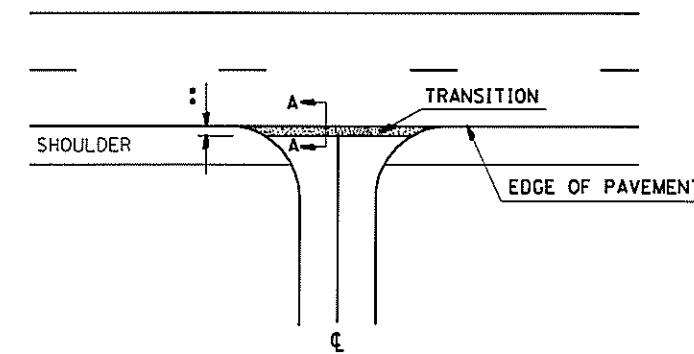
SCALE 1" = 500'

FILE NAME = *FILE#	USER NAME = *USER#	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION DETAILS				SBI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLDT SCALE = *SCALE#	DRAWN - _____	REVISED - _____		SCALE: _____	SHEET NO. 2 OF 2 SHEETS	STA. _____	TO STA. _____	11	S-RS, S-1-1	MADISON	10	8
	PLDT DATE = *DATE#	CHECKED - _____	REVISED - _____						CONTRACT NO. 76G40				
		DATE - _____	REVISED - _____						FED. ROAD DIST. NO. , (ILLINOIS) FED. AID PROJECT				

BUTT JOINTS



**TRANSITION DETAIL
SECTION A-A**



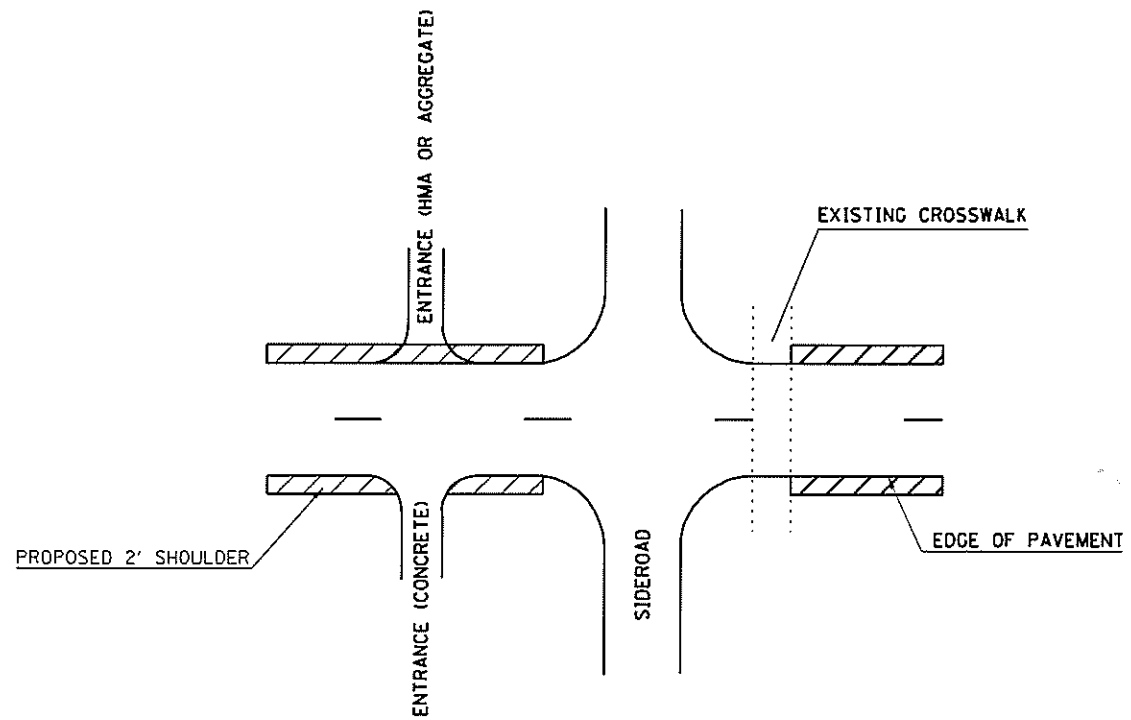
SIDEROAD DETAIL

LEGEND

- ① HMA SURFACE REMOVAL-BUTT JOINT
 - ② HMA MATERIAL (PRIME COAT)
 - ③ LEVELING BINDER (MACHINE METHOD), N70
 - ④ BITUMINOUS SURFACE TREATMENT (PREVENTATIVE MAINTENANCE)
- COST OF SAWCUT TO BE INCLUDED IN HMA SURFACE REMOVAL-BUTT JOINT; NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
 - ** EXTEND HMA SURFACE TREATMENT (PREVENTATIVE MAINTENANCE) SLIGHTLY BEYOND SAWCUT JOINT TO SEAL JOINT.

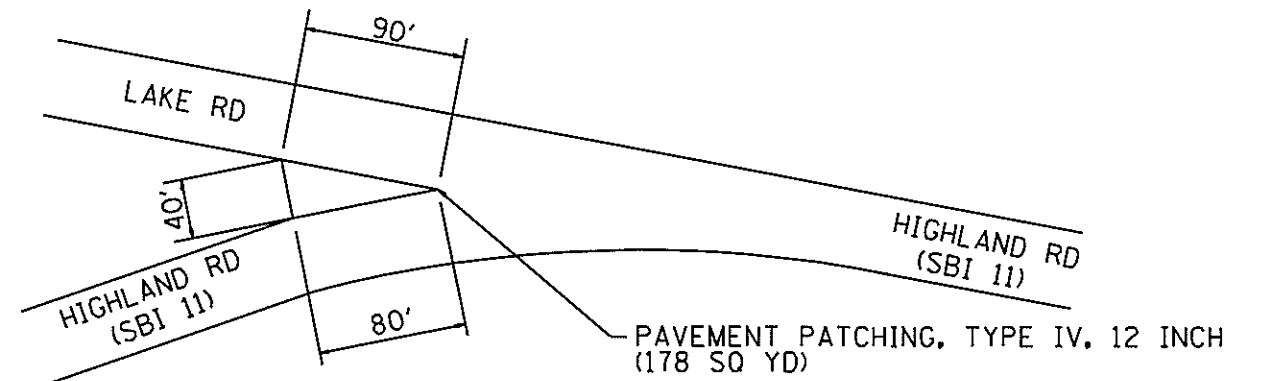
*EOP ELEVATION CHANGE	**TOTAL TRANSITION LENGTH
3/4"	3.5'
1"	5'
1-1/2"	7.5'
2"	10'
2-1/2"	12.5'
3"	15'
3-1/2"	17.5'
4"	20'
4-1/2"	22.5'
5"	25'
5-1/2"	27.5'
6"	30'

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.



SIDEROAD DETAIL FOR HMA SHOULDERS

2' HMA SHOULDER SHALL AVOID SIDEROADS,
SOUND CONCRETE ENTRANCES, CROSS WALKS,
AND WHERE 2' SHOULDER EXISTS ALREADY



PAVEMENT PATCHING DETAIL

(NTS)

BINDER AND BITUMINOUS SURFACE TREATMENT SHALL BE PLACED ON TOP OF PAVEMENT PATCH. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AND DEPTH OF PATCH AND SUBMIT TO THE ENGINEER FOR APPROVAL PRIOR TO PLACING PATCH. QUANTITY BASED ON AN ESTIMATED 12 INCH DEEP PATCH AND APPROXIMATE MEASUREMENTS SHOWN.

FILE NAME :	USER NAME : #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS	SBI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*FILEL#		DRAWN -	REVISED -			11	S-RS, S-1-1	MADISON	10	10
	PLOT SCALE : #SCALE#	CHECKED -	REVISED -			CONTRACT NO. 76640				
	PLOT DATE : #DATE#	DATE -	REVISED -			FED. ROAD DIST. NO. , ILLINOIS FED. AID PROJECT				
				SCALE: _____ SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____						