

04-26-13 LETTING ITEM 092

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

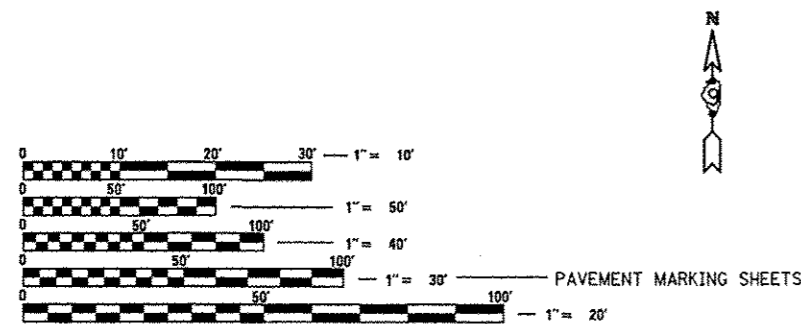
IL 3 /US 51 (FAP 14)
SECTION (137,18R,137X,138Z)RS-4
PROJECT ACF-0014(136)
PATCH AND RESURFACE
ALEXANDER COUNTY

C-99-005-13

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	(137,18R,137X,138Z)RS-4	ALEXANDER	15	1
		ILLINOIS	CONTRACT NO. 78344	

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEETS 4-5

LOCATION	ADT(2012)	SU	MU
IL 3/US 51	8,000	500	1,050

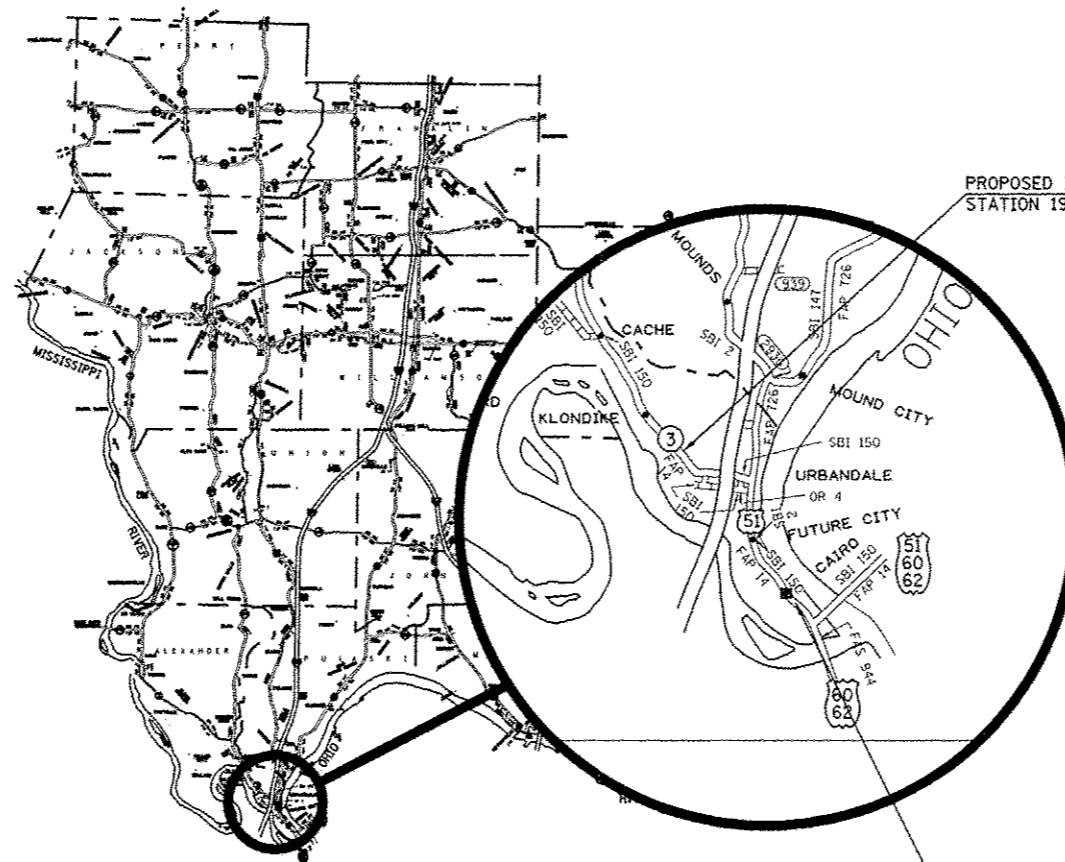


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER SEAN GREENLEE
PROJECT MANAGER SUSAN POE

CONTRACT NO. 78344



PROPOSED IMPROVEMENT BEGINS
STATION 194+00 (IL 3)

STATION EQUATIONS

STA. 303 + 59.14 BK = STA. 771 + 76.77 AH
STA. 804 + 25.28 BK = STA. 804 + 27.40 AH
STA. 821 + 88.41 BK = STA. 821 + 89.50 AH

PROPOSED IMPROVEMENT
ENDS STATION 845+06 (US 51)
34TH STREET

GROSS LENGTH = 18,285 FT. = 3.46 MILES
NET LENGTH = 18,285 FT. = 3.46 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED *Sept 6 20 13*
Omur Osman
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 22 20 13
John D. Baranzelli, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

March 22 20 13
Omur Osman, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

INDEX OF SHEETS

SHT NO	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, STANDARDS, GENERAL NOTES
3	SIGNATURE SHEET, MIXTURES REQUIREMENTS
4-5	SUMMARY OF QUANTITIES
6-7	TYPICAL SECTIONS
8-9	SCHEDULES OF QUANTITIES
10-12	PAVEMENT MARKING LAYOUT SHEETS
13	DETAILS: ROUGH GROOVED SURFACE; UNEVEN LANES; CONCRETE BUTT-JOINT; P.C.C. PATCHING-PARTIAL DEPTH
14	DETAILS: SIDEROAD; PRIVATE OR COMMERCIAL ENTRANCE (BITUMINOUS SHOULDERS)
15	DETAILS: PRIVATE OR COMMERCIAL ENTRANCE (NO SHOULDERS)

STANDARDS

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001006	DECIMAL OF AN INCH AND OF A FOOT
442101-07	CLASS B PATCHES
442201-03	CLASS C AND D PATCHES
482011-03	HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING, AND RESURFACING PROJECTS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-04	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701101-03	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701336-06	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES FOR SPEEDS ≥ 45 MPH
701422-05	LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701426-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥ 45 MPH
701427-01	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≤ 40 MPH
701601-08	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRANSVERSABLE MEDIAN
701606-08	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-08	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-03	TRAFFIC CONTROL DEVICES
720006-03	SIGN PANEL DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS AND MARKERS)
780001-03	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATORS RAISED REFLECTIVE PAVEMENT MARKERS
814001-02	HANDHOLES
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUTS FOR DETECTION LOOPS

COMMITMENTS

THE RAILROAD AT APPROXIMATELY STATION 819+45 IS CURRENTLY OUT OF SERVICE. HOWEVER, SINCE IT IS RAILROAD PROPERTY, THE CONTRACTOR SHOULD CONTACT BILLY SCHULTZ (618-457-3423) PRIOR TO WORKING WITHIN 50' OF THE RAILROAD.

GENERAL NOTES

1. THE THICKNESS OF HOT MIX ASPHALT 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 HOT MIX ASPHALT IS PLACED.
2. FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL HOT MIX ASPHALT	2.016 TONS/CU YD
ALL AGGREGATE	2.05 TONS/CU YD
BITUMINOUS MATERIALS:	
ON PAVEMENT	0.09 GAL/SQ YD
INTERMEDIATE LIFTS (FOG COATS)	0.04 GAL/SQ YD
ON AGGREGATE SURFACE	0.32 GAL/SQ YD
AGGREGATE (PRIME COAT)	0.0015 TONS/SQ YD
RIPRAP	1.50 TONS/CU YD
3. THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION EACH FOR THE PRIME COAT, SURFACE COURSE, AND BINDER COURSE.
4. ATTAINMENT OF PROPER CROWN OR SUPERELEVATION SHALL BE FULLY ACCOMPLISHED WITH THE HOT MIX ASPHALT SURFACE REMOVAL OR HOT MIX ASPHALT BINDER COURSE OR LEVELING BINDER, WHEN SPECIFIED.
5. AFTER A LIFT OF BITUMINOUS CONCRETE HAS BEEN PLACED ON A LANE, THAT LANE SHALL REMAIN CLOSED TO TRAFFIC UNTIL THE NEW MAT HAS COOLED TO 150°
6. 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.
7. THE CONTRACTOR SHALL STAMP STATIONING IN THE PROPOSED HOT MIX ASPHALT SURFACE AT 300 FT. INTERVALS ON ALTERNATING SIDES OF THE 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.
8. FORMS FOR COMBINATION CONCRETE CURB AND GUTTER SHALL BE OF METAL ONLY, EXCEPT THAT WOOD FORMS MAY BE USED ON SHORT RADIUS CURVES.
9. THE QUANTITY OF 'THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS' FOR THE TWO-WAY LEFT TURN LANE IS CALCULATED BASED ON 300' SPACING OF THE DUAL ARROWS. HOWEVER, THE SPACING MAY BE MODIFIED BY THE ENGINEER TO ASSURE THAT THE ARROWS ARE NOT IN THE PATH OF TRAFFIC FROM SIDEROADS AND ENTRANCES.
10. NO VIBRATORY ROLLER SHALL BE USED IN PAVING OPERATIONS SOUTH OF THE EXISTING BITUMINOUS JOINT (STA. 805+35).
11. A QUANTITY OF 100 FT OF COMBINATION CURB AND GUTTER, TYPE B-6.24 AND COMBINATION CURB AND GUTTER REMOVAL HAVE BEEN ESTIMATED FOR THE REPAIR OF ANY DETERIORATED CURB AND GUTTER. THE EXACT LOCATION WILL BE DETERMINED BY THE ENGINEER.
12. TWO CLASS C PATCHES (1-12'X12', 1-12'X40') HAVE BEEN INCLUDED TO ADDRESS PAVEMENT ISSUES NEAR 18TH & 19TH STREET IN CAIRO. THE EXACT LOCATION IS TO BE DETERMINED BY THE ENGINEER.
13. ALL BASE MATERIAL DEEMED UNSUITABLE BY THE ENGINEER DURING PATCHING OPERATIONS NEAR THE RAILROAD CROSSING SHOULD BE REPLACED WITH POROUS GRANULAR EMBANKMENT (3" CLEAN ROCK) AND PAID FOR AS STATED IN ARTICLE 109.04.
14. THE MAGNETIC RACEWAYS ON THE THREE LEGS OF THE INTERSECTION OF US 51 / IL 37 WILL BE REPLACED WITH DETECTOR LOOPS, TYPE 1. QUANTITY IS INCLUDED FOR NEW CABLE FROM DETECTOR LOOP TO CONTROLLER.
15. ALL NON-ESSENTIAL ELECTRIC CABLE SHALL BE REMOVED FROM EXISTING CONDUIT THAT IS TO BE REUSED FOR INSTALLATION OF PROPOSED ELECTRIC CABLE. THIS WORK WILL BE CONSIDERED INCLUDED IN THE PROPOSED ELECTRIC CABLE PAY ITEM.
16. THE FURNISHING AND INSTALLATION OF THE 3.18 cm (1 1/4 IN.) CONDUIT WITH ITS TRENCHING AND BACKFILL FROM THE LOOP SAWCUT TO THE SPLICE POINT SHALL BE INCLUDED IN THE LOOP INSTALLATION UNLESS SHOWN OTHERWISE ON THE PLANS.
17. THE INDUCTION LOOP WIRE AND LEAD-IN WIRE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.
18. SHIELDED CABLE TO LOOP LEADS SHALL BE GROUNDED AT THE CONTROLLER TERMINAL ONLY.
19. ALL DETECTOR LOOP CORNERS SHALL BE CORE DRILLED 5.08 cm (2 IN.) MINIMUM DIAMETER EXCEPT THOSE PLACED UNDER RESURFACING. THE DETECTOR LOOP CORNERS PLACED UNDER RESURFACING SHALL BE DIAGONALLY SAWCUT.
20. EXISTING SURFACE DISTURBED DURING EXCAVATION FOR FOUNDATIONS AND PUSH PITS SHALL BE RESTORED TO THE LIMITS AND CONDITION SPECIFIED BY THE ENGINEER OR AS SHOWN ON THE PLANS. UNLESS NOTED OTHERWISE ON THE PLANS THE REMOVAL AND RESTORATION SHALL BE INCLUDED IN THE CONTRACT.
21. SAWED SLOTS FOR TWISTED PAIR ELECTRIC CABLES SHALL BE LARGER THAN SINGLE CONDUCTOR LOOP SLOTS.
22. THE LOCATION OF THE DETECTOR LOOPS AND TRAFFIC SIGNAL FOUNDATIONS, AS SHOWN ON THE PLANS, MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER OF TRAFFIC OPERATIONS.
23. IN AREAS OF MEDIAN WHERE CURB AND GUTTER IS ON THE HIGH SIDE OF THE PAVEMENT AND ALL WATER DRAINS AWAY FROM SAID CURB AND GUTTER, THE GUTTER SHOULD BE FILLED IN SO THAT NO WATER POOLS IN THESE AREAS.
24. PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH) SHOULD BE USE TO GRIND THE CONCRETE MEDIAN TYPE C-4 DOWN TO AN ELEVATION LEVEL WITH ADJACENT LANES.

FILE NAME :	USER NAME : greenleam	DESIGNED :	REVISED :	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STANDARDS, GENERAL NOTES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
at:\p\work\p\widat\greenleam\2013076\78344-sha-ovr-soq-index.dgn	DRAWN :	REVISED :	14						1137,18R,137X,138ZRS-4	ALEXANDER	15	2	
PLOT SCALE : 1/8"=1'-0"	CHECKED :	REVISED :	CONTRACT NO. 78344										
PLOT DATE : 8/24/2012	DATE :	REVISED :	SCALE:		SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT		

Prepared By: Joe Zlaniewicz
DISTRICT STUDIES & PLANS ENGINEER

Examined By: James Linn Eng
DISTRICT LAND ACQUISITION ENGINEER

Examined By: Connie Nuber
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: Will Nels
DISTRICT OPERATIONS ENGINEER

Examined By: Doug Halferich
DISTRICT CONSTRUCTION ENGINEER

Examined By: Bruce Whitehead
DISTRICT MATERIALS ENGINEER

Examined By: K.R. De
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Approved By: Omer Osman Jr
DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER

AUGUST 17, 2012
DATE

MIXTURES REQUIREMENTS

Location(s):	Hot-Mix Asphalt Surface Course
Mixture Use(s):	Hot-Mix Asphalt Surface Course, Mix D, N90
AC/PG:	PG64-22
RAP % (Max):	SEE SPECIAL PROVISIONS
Design Air Voids:	4.0 %, 90 Gyration Design
Mixture Composition: (Gradation Mixture)	IL-9.5 mm or IL12.5 mm
Friction Aggregate:	D Surface

Location(s):	Hot-Mix Asphalt Binder Course
Mixture Use(s):	Hot-Mix Asphalt Leveling Binder, N90, IL-9.5 Fine-Graded
AC/PG:	PG64-22
RAP % (Max):	SEE SPECIAL PROVISIONS
Design Air Voids:	4.0 %, 90 Gyration Design
Mixture Composition: (Gradation Mixture)	IL-9.5 FG
Friction Aggregate:	None

Location(s):	Hot-Mix Asphalt Incidental Surface Course
Mixture Use(s):	Hot-Mix Asphalt Surface Course, Mix C, N70
AC/PG:	PG64-22
RAP % (Max):	SEE SPECIAL PROVISIONS
Design Air Voids:	4.0 %, 70 Gyration Design
Mixture Composition: (Gradation Mixture)	IL-9.5 mm or IL12.5 mm
Friction Aggregate:	C Surface

Location(s):	Hot-Mix Asphalt Shoulders
Mixture Use(s):	Hot-Mix Asphalt Shoulders, N30
AC/PG:	PG58-22
RAP % (Max):	SEE SPECIAL PROVISIONS
Design Air Voids:	2.0 %, 30 Gyration Design
Mixture Composition: (Gradation Mixture)	HMA Shoulder
Friction Aggregate:	None

SUMMARY OF QUANTITIES

CODE NO.	ITEM	CONSTRUCTION TYPE CODE-0005	
		FUNDING	80 % FEDERAL 20 % STATE
		UNIT	QUANTITY
X4400100	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)	SO YD	225
X4421000	PARTIAL DEPTH PATCHING	TON	15
Z0034105	MATERIAL TRANSFER DEVICE	TON	5504
40600100	BITUMINOUS MATERIAL (PRIME COAT)	GALLOW	7610
40600300	AGGREGATE (PRIME COAT)	TON	132
40600647	LEVELING BINDER (MACHINE METHOD), IL-9.5FG, N90	TON	1528
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	209
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SO YD	200
40600990	TEMPORARY RAMP	SO YD	57
40603345	HOT-MIX ASPHALT SURFACE COURSE, MIX D, N90	TON	3976
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	41
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SO YD	17644
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	100
44022025	PARTIAL DEPTH REMOVAL 2"	SO YD	81
44201299	DOWEL BARS 1 1/2"	EACH	6628

SUMMARY OF QUANTITIES

CODE NO.	ITEM	CONSTRUCTION TYPE CODE-0005	
		FUNDING	80 % FEDERAL 20 % STATE
		UNIT	QUANTITY
44200966	CLASS B PATCHES, TYPE I, 10 INCH	SO YD	4
44200970	CLASS B PATCHES, TYPE II, 10 INCH	SO YD	2649
44201353	CLASS C PATCHES, TYPE II, 10 INCH	SO YD	1088
44201357	CLASS C PATCHES, TYPE III, 10 INCH	SO YD	156
44201359	CLASS C PATCHES, TYPE IV, 10 INCH	SO YD	756
44213200	SAW CUTS	FOOT	15864
44213204	TIE BARS 3/4"	EACH	266
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	13779
48203100	HOT-MIX ASPHALT SHOULDERS	TON	1098
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6. 24	FOOT	100
67100100	MOBILIZATION	L SUM	1
70100320	TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	L SUM	1
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1

SUMMARY OF QUANTITIES

CODE NO.	ITEM	CONSTRUCTION TYPE CODE-0005	
		FUNDING	80 % FEDERAL 20 % STATE
		UNIT	QUANTITY
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	12
70300100	SHORT TERM PAVEMENT MARKING	FOOT	5527
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	725
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	32333
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	370
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	162
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	13315
* 72000100	SIGN PANEL - TYPE 1	SO FT	49
72900200	METAL POST - TYPE B	FOOT	116
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	725
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	370
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	162

* SPECIALTY ITEM

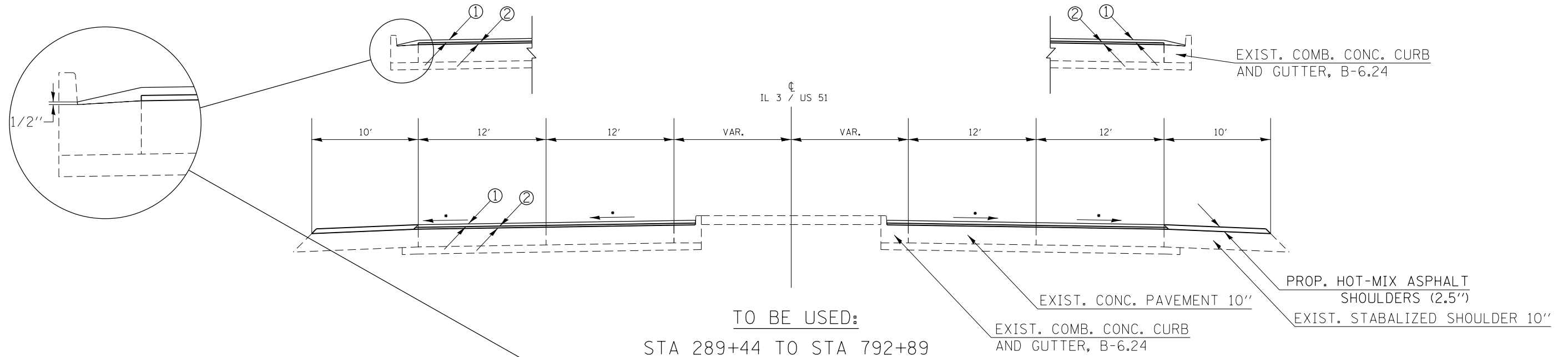
SUMMARY OF QUANTITIES

CODE NO.	ITEM	CONSTRUCTION TYPE CODE-0005	
		FUNDING	80 % FEDERAL 20 % STATE
		UNIT	QUANTITY
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	32333
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	356
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	328
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	875
87900200	DRILL EXISTING HANDHOLE	EACH	3
* 88600100	DETECTOR LOOP, TYPE I	FOOT	238

TYPICAL SECTIONS

TO BE USED:
STA 792+89 TO STA 799+69

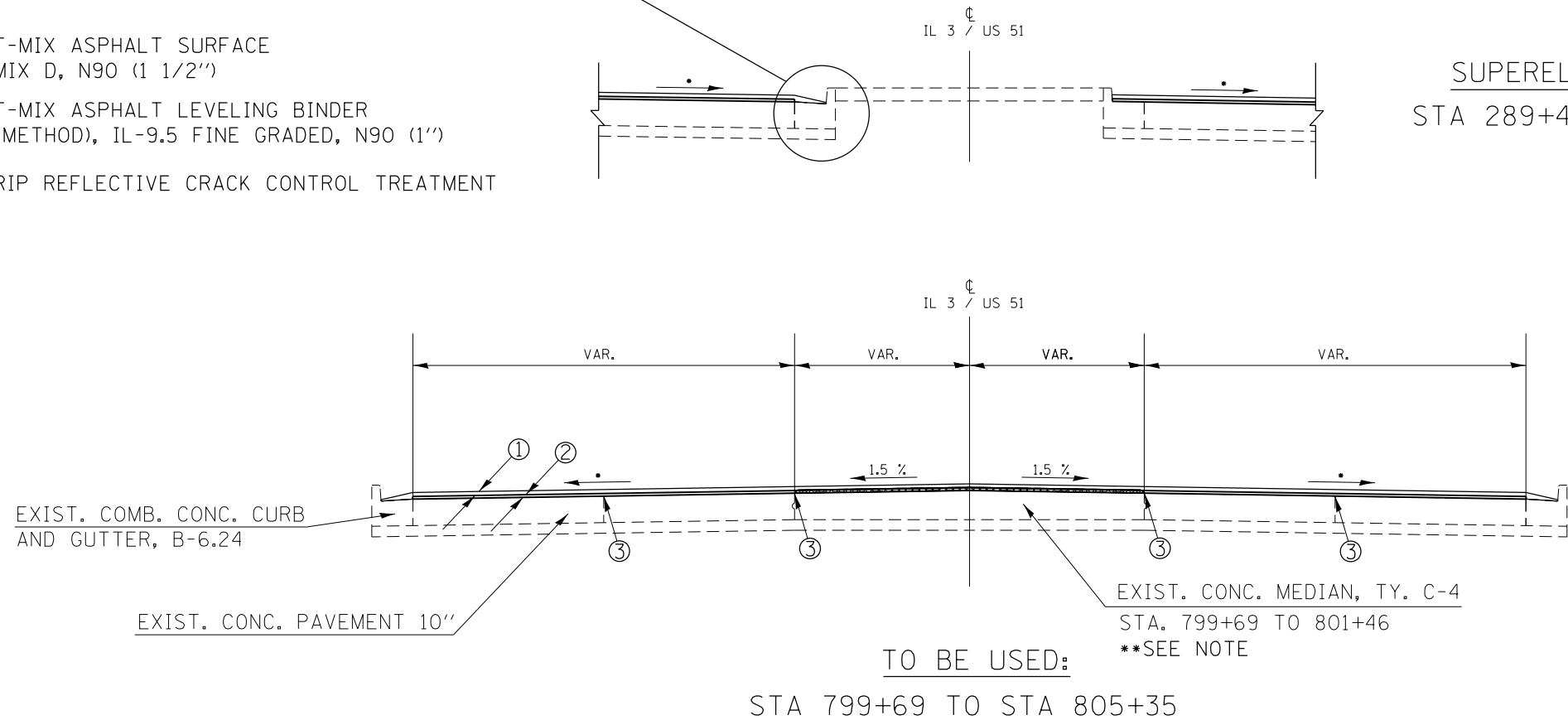
TO BE USED:
STA 792+89 TO STA 799+69



TO BE USED:
STA 289+44 TO STA 792+89

SUPERELEVATED SECTION
STA 289+44 TO STA 302+91.62

- ① - PROP. HOT-MIX ASPHALT SURFACE COURSE, MIX D, N90 (1 1/2")
- ② - PROP. HOT-MIX ASPHALT LEVELING BINDER (MACHINE METHOD), IL-9.5 FINE GRADED, N90 (1")
- ③ - PROP. STRIP REFLECTIVE CRACK CONTROL TREATMENT



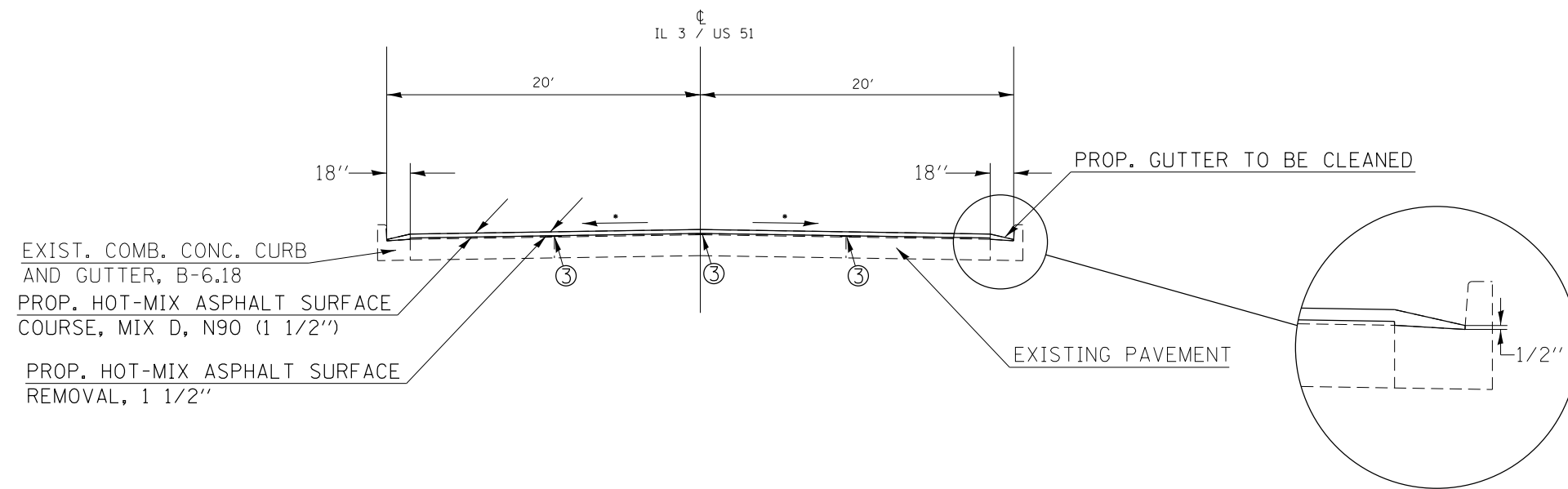
- * - MATCH EXISTING SLOPES
- ** - REMOVE TY. C-4 MEDIAN DOWN TO EXISTING ELEV. OF ADJACENT PAVEMENT AT 1.5 % FROM C TO BE PAID AS PORTLAND CEMENT CONCRETE REMOVAL (VARIABLE DEPTH)
- *** - STRIP REFLECTIVE CRACK CONTROL TREATMENT FIGURED FOR FOUR JOINTS FROM STA. 799+69 TO STA. 801+46. THEN FOR THREE JOINTS FOR THE REMAINDER OF JOB.

FILE NAME =	USER NAME = lavenderba	DESIGNED -	REVISED -
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Default	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 9/12/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:		SHEET OF SHEETS		STA.	TO STA.
		TYPICALS		F.A.P. RTE.	SECTION
				14	(137,18R,137X,138Z)RS-4
				COUNTY	ALEXANDER
				TOTAL SHEETS	15
				SHEET NO.	6
				CONTRACT NO. 78344	
				ILLINOIS FED. AID PROJECT	

TYPICAL SECTIONS



TO BE USED:
STA 805+35 TO STA 845+06

- ③ - PROP. STRIP REFLECTIVE CRACK CONTROL TREATMENT
- * - MATCH EXISTING SLOPES

FILE NAME =	USER NAME = lavenderba	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICALS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
Default	ct:\pw\work\p\dot\lavenderba\d0313676\78344-shrb-tpy_sch.ttes.dgn	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	14	(137,18R,137X,138Z)RS-4	ALEXANDER	15	7
	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -								CONTRACT NO. 78344				
	PLOT DATE = 9/12/2012	DATE -	REVISED -								ILLINOIS FED. AID PROJECT				

RESURFACING SCHEDULE

LOCATION STATION TO STATION	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)	HOT-MIX ASPHALT SHOULDERS	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	HMA SURFACE REMOVAL, 1.5"	STRIP REFLECTIVE CRACK CONTROL TREATMENT	HOT-MIX ASPHALT SURFACE COURSE, MIX D, N90	HOT-MIX ASPHALT LEVELING BINDER (MACHINE METHOD), 1L-9.5 FINE GRADED, N90	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	TEMP RAMP	REMARKS
	SO YD	TON	SO YD	SO YD	SO YD	FOOT	TONS	TONS	GAL	TON	SO YD	
IL 3 / US 51												
289+44 TO 291+69		70	200	67			134	69	333	5.6	34	
291+69 TO 293+52		57					99	61	249	4.1		
293+52 TO 301+74		256					399	246	1019	17.0		
301+74 TO 302+40		21					43	29	106	1.8		
302+40 TO 303+59.14 BK		37					71	44	176	2.9		
771+76.77 AH TO 773+07		41					78	49	193	3.2		
773+07 TO 774+24		36					63	39	159	2.7		
774+24 TO 782+42		254					397	244	1014	16.9		
782+42 TO 783+10		21					44	30	109	1.8		
783+10 TO 784+89		56					107	67	265	4.4		
784+89 TO 787+00		66					114	71	287	4.8		
787+00 TO 790+00		93					146	90	372	6.2		
790+00 TO 790+67		21					44	29	107	1.8		
790+67 TO 792+72		64					122	77	262	5.1		
792+72 TO 792+90		6					11	7	23	0.4		
792+90 TO 795+00							122	71	260	5.0		
795+00 TO 798+74							196	112	419	8.2		
798+74 TO 799+69							50	28	106	2.1		
799+69 TO 801+46	225					708	105	66	225	4.3		CONC. MEDIAN, TY. C-4 SECTION
801+46 TO 803+80						702	108	66	232	4.6		
803+80 TO 804+25.28 BK						136	17	10	36	0.8		
804+27.4 AH TO 805+35						323	40	24	86	1.8		
805+35 TO 821+88.41 BK					7348	4960	602		645	10.7		
821+89.5 AH TO 845+06					10296	6950	865		927	15.4	23	
TOTALS	225	1098	200	67	17644	13779	3976	1528	7610	132	57	

PAVEMENT MARKING SCHEDULE

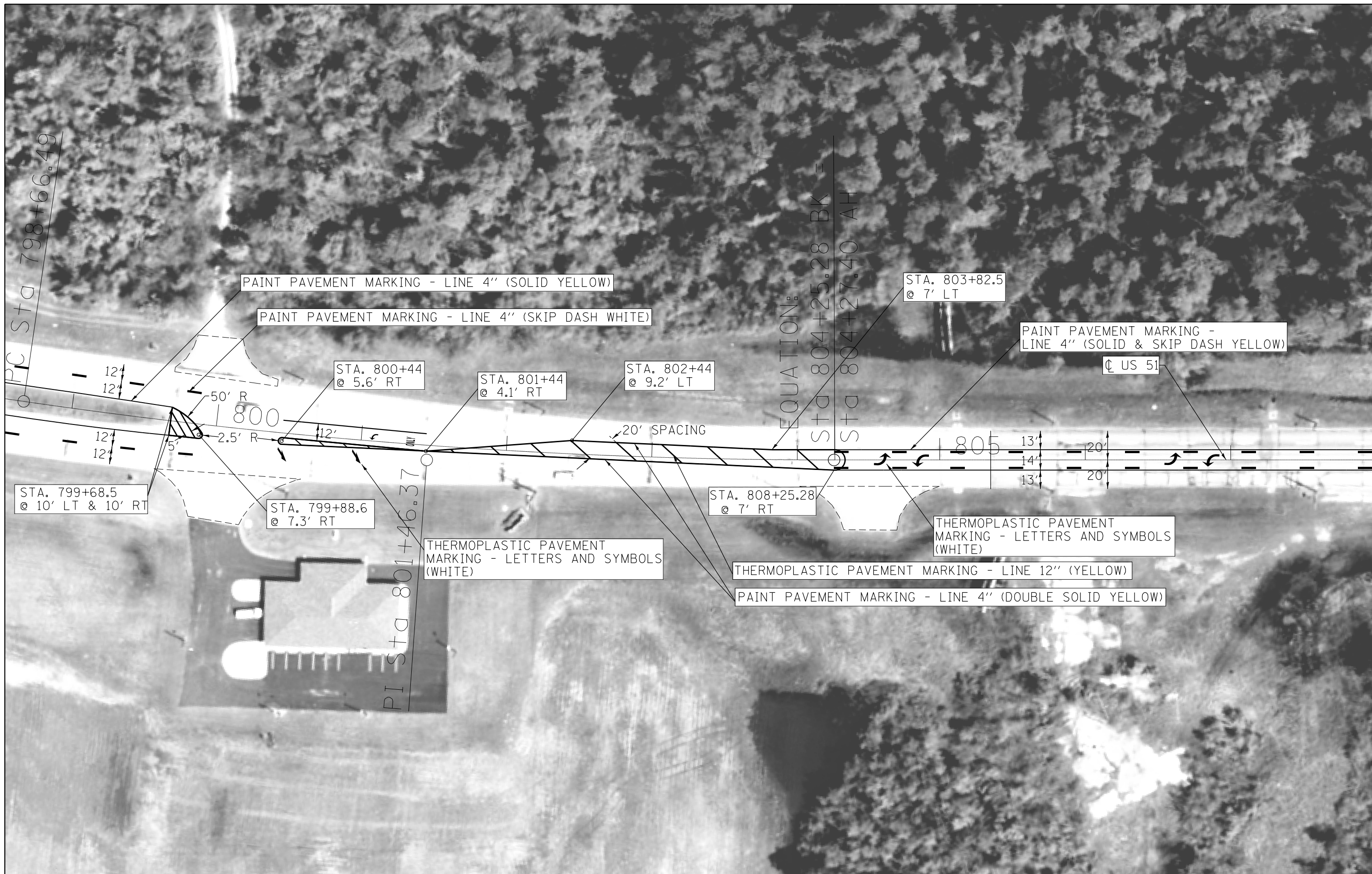
LOCATION STATION TO STATION	PAINT PAVEMENT MARKING				THERMOPLASTIC PAVEMENT MARKING - LINE 12"	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	REMARKS
	LINE 4"							
	YELLOW		WHITE					
	SOLID FOOT	SKIP DASH FOOT	SOLID FOOT	SKIP DASH FOOT				
IL 3 / US 51								
289+44 TO 290+80	272		408	68				
290+40						20.6		
290+80 TO 301+56	2152		2152	538				
301+56 TO 302+32			152	38				
302+32 TO 303+58.14 BK	252		378	63				
303+42						20.6		
771+76.77 AH TO 773+07	260		391	65				
773+07 TO 782+40	1866		1866	467				
782+40 TO 782+98			116	29				
782+98 TO 784+90	384		576	96				
783+53						20.6		
784+90 TO 790+00	1020		1020	255				
790+00 TO 790+50			100	25				
790+50 TO 792+71	442		663	111				
791+18						20.6		
792+71 TO 793+00	58		58	15				
793+00 TO 799+68	1336			334				
799+68 TO 799+91.	148			12	61			
800+44 TO 801+44	400		100		20			
800+47						41.5		
801+22						20.6		
800+97						41.5		
801+44 TO 804+25.28 BK	1125				132			
804+27.4 AH TO 821+40.	3425	856				105.6	SEE GENERAL NOTE #10	
817+54					27			
817+79						122.4		
818+04					27			
819+28					27			
819+64					27			
821+14					27			
821+39						122.4		
821+40 TO 821+81	100				47			
823+11					27			
822+35 TO 823+35	200		100					
823+35 TO 824+35	200							
824+35 TO 841+96	3522	881				105.6	SEE GENERAL NOTE #10	
841+96 TO 844+06	840				110			
843+34						41.5		
843+77						41.5		
844+06 TO 845+06	200			50				
CLASS B PATCHES			1074	1074				
SUBTOTALS	18203	1737	9154	3238				
TOTALS			32332		370	162	725	

ENTRANCE AND SIDEROAD SCHEDULE

LOCATION STATION TO STATION	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	INCIDENTAL HOT-MIX ASPHALT SURFACING	REMARKS
	SO YD	TON	
IL 3 / US 51			
299+55 RT		2.0	
302+05 RT	49	8.8	
782+70 RT	42	7.5	
782+70 LT		1.4	
790+28 RT	51	8.8	
793+66 RT		2.0	
795+46 RT		2.2	
799+96 LT		2.5	
800+11 RT		3.2	
804+52 RT		2.6	
TOTALS	142	41	

SIGNAGE SCHEDULE

LOCATION STATION TO STATION	SIGN PANEL - TYPE I	METAL POST - TYPE B	REMARKS
	SO FT	FOOT	
IL 3 / US 51			
794+00 RT	6.25	15	W9-1L
799+00 RT	6.25	15	W4-2L
806+50 RT	6	14	R3-9b
825+00 RT & LT	12	28	(2) R3-9b
840+50 LT	6	14	R3-9b
846+00 LT	6.25	15	W4-2L
851+00 LT	6.25	15	W9-1L
TOTALS	49	116	



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	(137,18R,137X,138Z)RS-4	ALEXANDER	15	10
CONTRACT NO. 78344				
ILLINOIS FED. AID PROJECT				



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	(137,18R,137X,138Z)RS-4	ALEXANDER	15	11
CONTRACT NO. 78344				
ILLINOIS FED. AID PROJECT				



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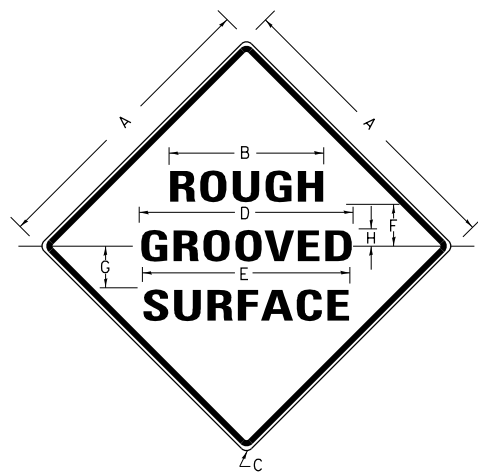
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	(137,18R,137X,138Z)RS-4	ALEXANDER	15	12
CONTRACT NO. 78344				
ILLINOIS FED. AID PROJECT				

ILLINOIS STANDARD

W8-I106



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.

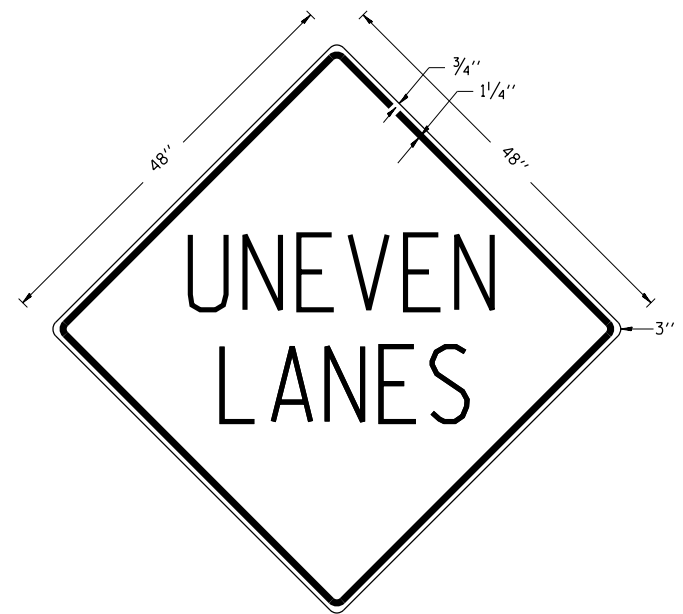
THE COST OF FURNISHING, ERECTING, MAINTAINING, AND REMOVING THE REQUIRED SIGNS SHALL BE INCLUDED IN THE CONTRACT.

REVISIONS	
REDRAWN	2-15-89
REVISED	4-6-93
REVISED	3-27-08
REVISED	

STD. 9-39

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.

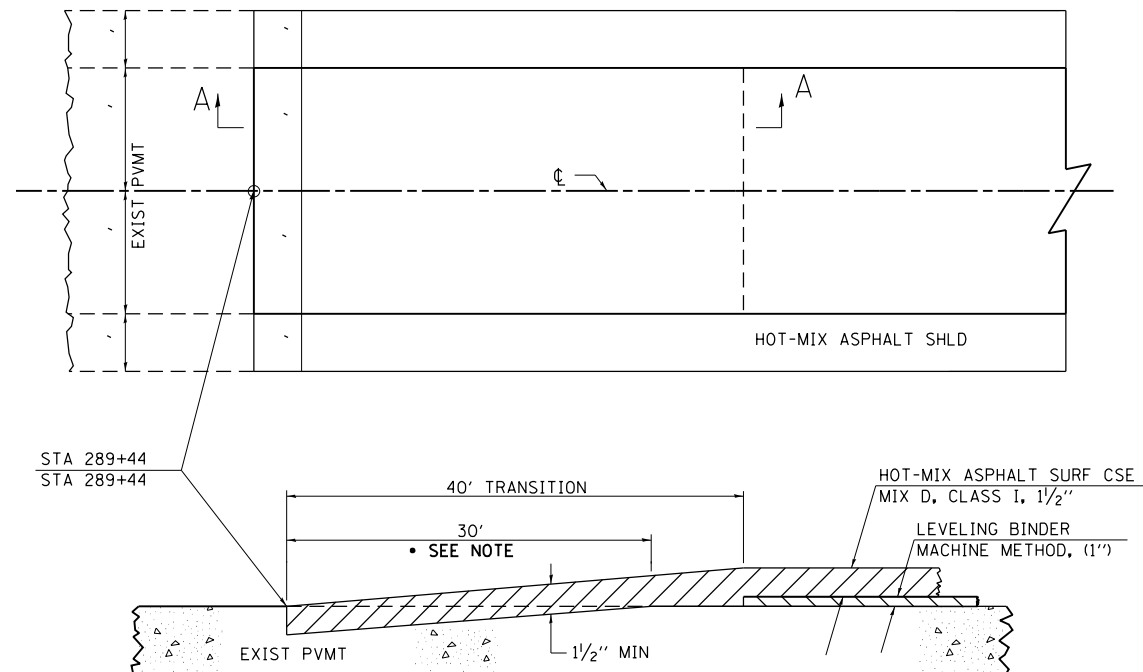
IF AT ANY TIME THE SIGNS ARE IN PLACE BUT NOT APPLICABLE, THEY SHALL BE TURNED FROM THE VIEW OF MOTORISTS OR COVERED AS DIRECTED BY THE ENGINEER.

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

REVISIONS	
DRAWN	2-15-89
REVISED	4-06-93
REDESIGNED	7-23-04
RESIZED	5-08-08

STD. 9-41

BUTT JOINT



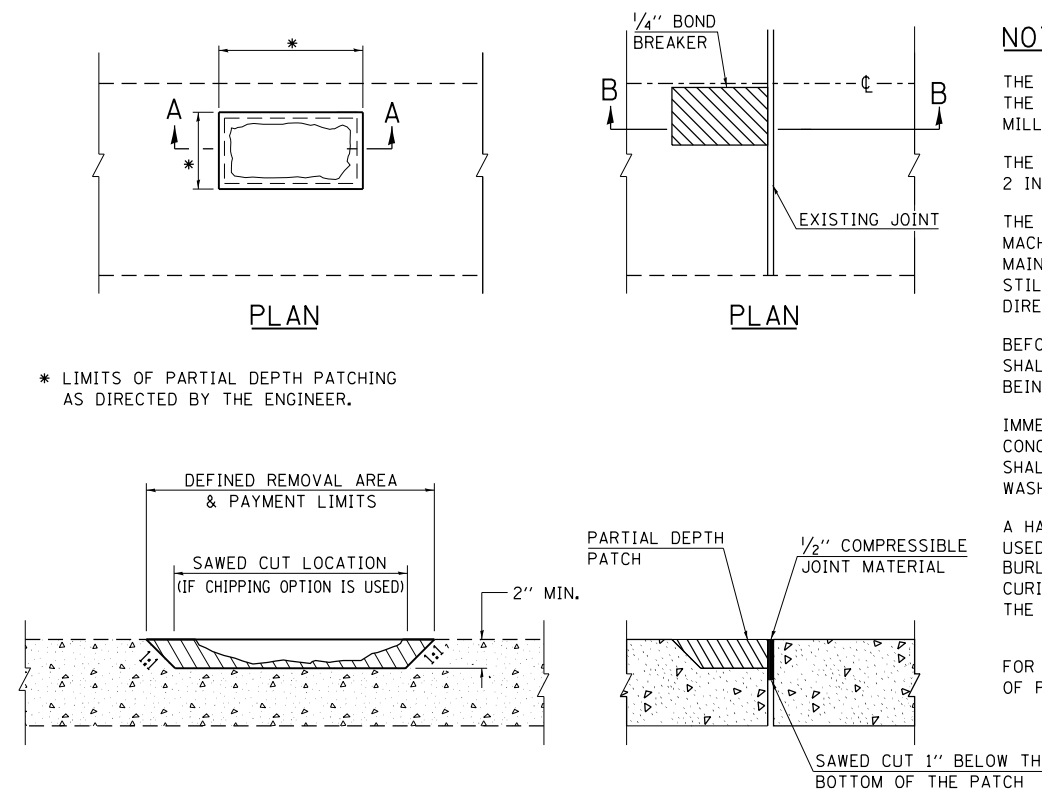
* PCC SURFACE REMOVAL - BUTT JOINT = MAINLINE PAVEMENT
HMA SURFACE REMOVAL - BUTT JOINT = SHOULDERS

SECTION A-A

REVISIONS	
DRAWN	10-17-90
REVISED	01-11-07
REVISED	3-25-08
REVISED	

STD. 9-86

DETAILS OF P.C.C. PATCHING-PARTIAL DEPTH



NOTES:

THE CONTRACTOR HAS THE OPTION OF SAWING THE PAVEMENT AND CHIPPING THE EDGES OR BY MILLING THE DEFINED AREA OF THE PATCH.

THE PAVEMENT SHALL BE SAWED A MINIMUM OF 2 INCH DEPTH IF THE SAWING OPTION IS USED.

THE DIAMETER OF THE WHEEL SAW OR MILLING MACHINE SHALL BE OF SUFFICIENT SIZE TO MAINTAIN THE 1:1 SIDE SLOPE. CHIPPING MAY STILL BE REQUIRED ON NARROW SIDES IF SO DIRECTED BY THE ENGINEER.

BEFORE SANDBLASTING, ALL VISIBLE WIRE MESH SHALL BE REMOVED FLUSH WITH THE CONCRETE BEING PATCHED.

IMMEDIATELY BEFORE APPLYING GROUT PRIOR TO CONCRETE PLACEMENT ALL EXPOSED SURFACES SHALL BE CLEANED BY SANDBLASTING, AIRBLASTING, WASHING AND BRUSHING.

A HAND VIBRATOR OR VIBRATING SCREED SHALL BE USED DURING THE PATCHING OPERATIONS. BURLAP CURING BLANKETS ARE NOT REQUIRED. CURING SHALL BE WITH CURING COMPOUNDS MEETING THE APPROVAL OF THE ENGINEER.

FOR ADDITIONAL REQUIREMENTS AND BASIS OF PAYMENT, SEE THE SPECIAL PROVISIONS.

SECTION A-A

SECTION B-B

REVISIONS	
DRAWN	2-15-89
REVISED	3-26-08
REVISED	
REVISED	

STD. 9-37

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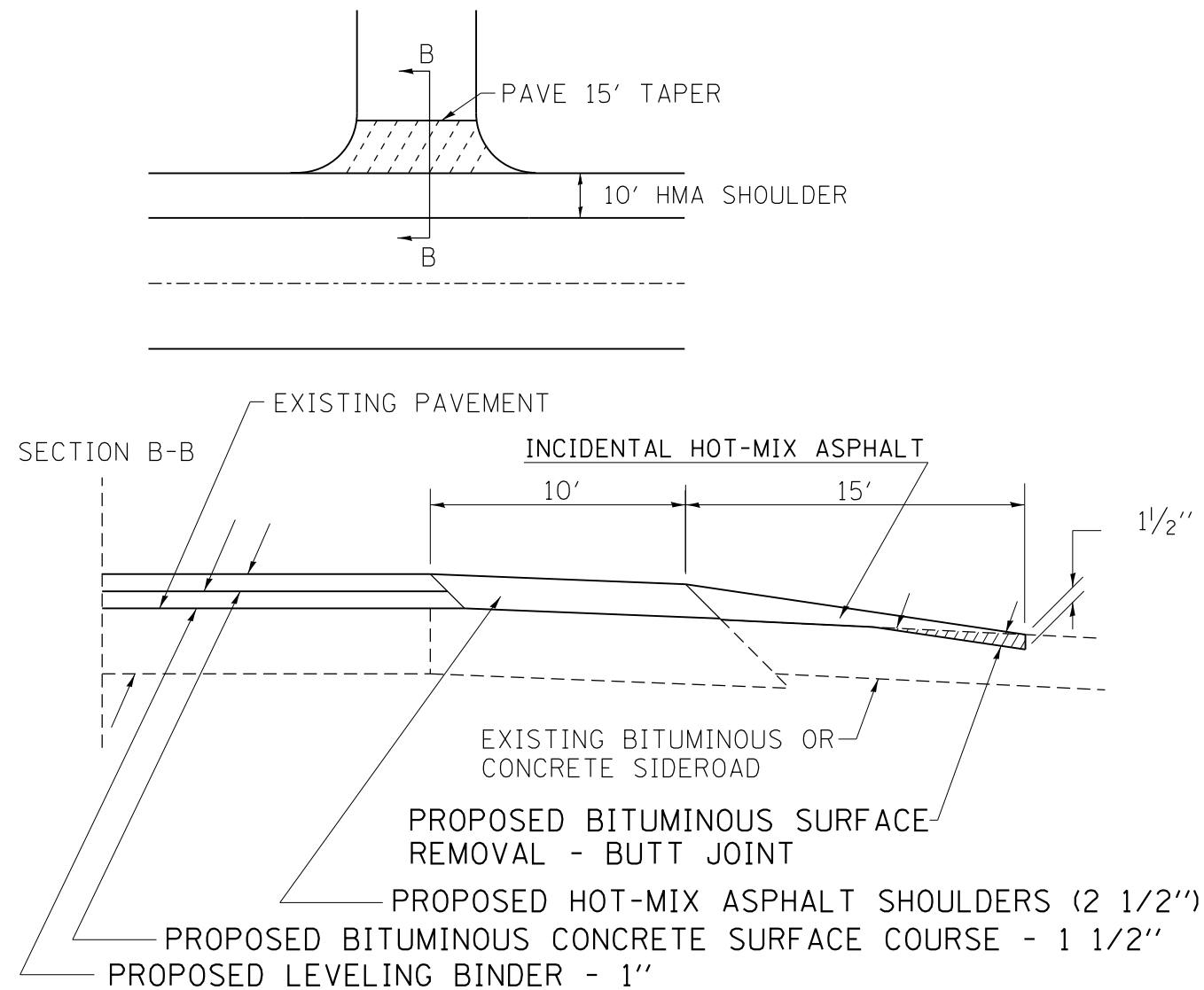
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAILS: ROUGH GROOVED SURFACE; UNEVEN LANES;
CONCRETE BUTT JOINT; P.C.C. PATCHING-PARTIAL DEPTH**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	(137,18R,137X,138Z)RS-4	ALEXANDER	15	13
CONTRACT NO. 78344				
ILLINOIS FED. AID PROJECT				

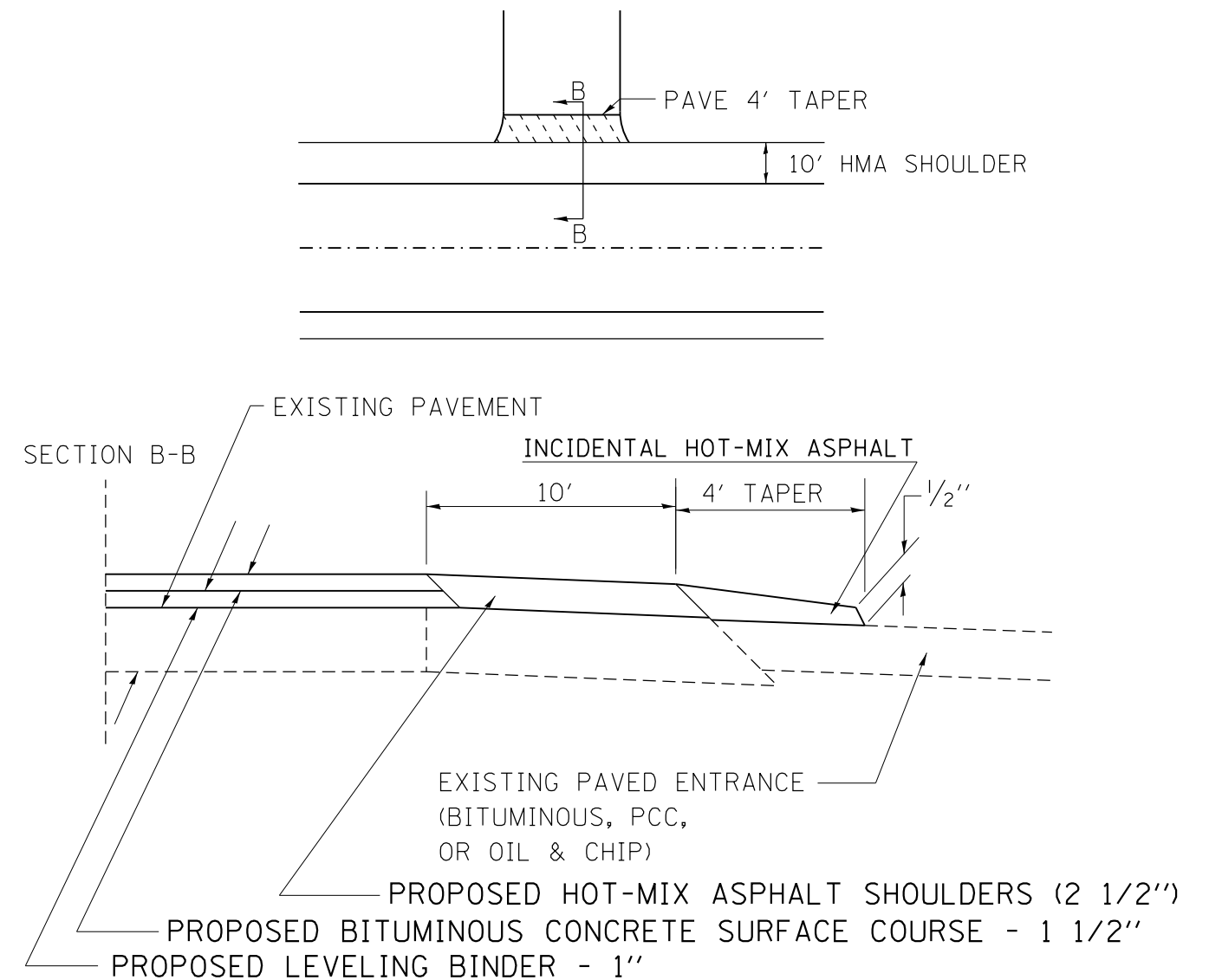
**DETAIL OF BITUMINOUS OR PCC
SIDEROADS WITH BUTT JOINT**



IF EXISTING BASE COURSE IS INADEQUATE, AS DETERMINED BY THE ENGINEER, THE SIDEROADS SHALL BE CORED OUT AND AGGREGATE BASE COURSE, TYPE B SHALL BE PLACED FOR BASE. THE COST OF CORING OUT THE SIDEROAD SHALL BE INCLUDED IN THE COST OF THE AGGREGATE BASE COURSE. IF EXISTING BASE COURSE IS DETERMINED TO BE ADEQUATE, THE AGGREGATE BASE COURSE SHALL BE DELETED AND THE PREPARATION OF THE BASE SHALL BE CONSTRUCTED ACCORDING TO ARTICLE 406.09.

TO BE USED: STA. 302+05 RT, STA. 782+70 RT, AND STA. 790+82

**DETAIL OF BITUMINOUS, PCC, OR OIL &
CHIP PRIVATE OR COMMERCIAL ENTRANCE
(BITUMINOUS SHOULDERS)**



PREPARATION OF EXISTING SURFACE AND ANY EXCAVATION FOR ENTRANCES SHALL BE IN ACCORDANCE WITH ARTICLE 406.09 OF THE STANDARD OF SPECIFICATIONS.

TO BE USED: STA. 299+55 RT AND STA. 782+70 LT

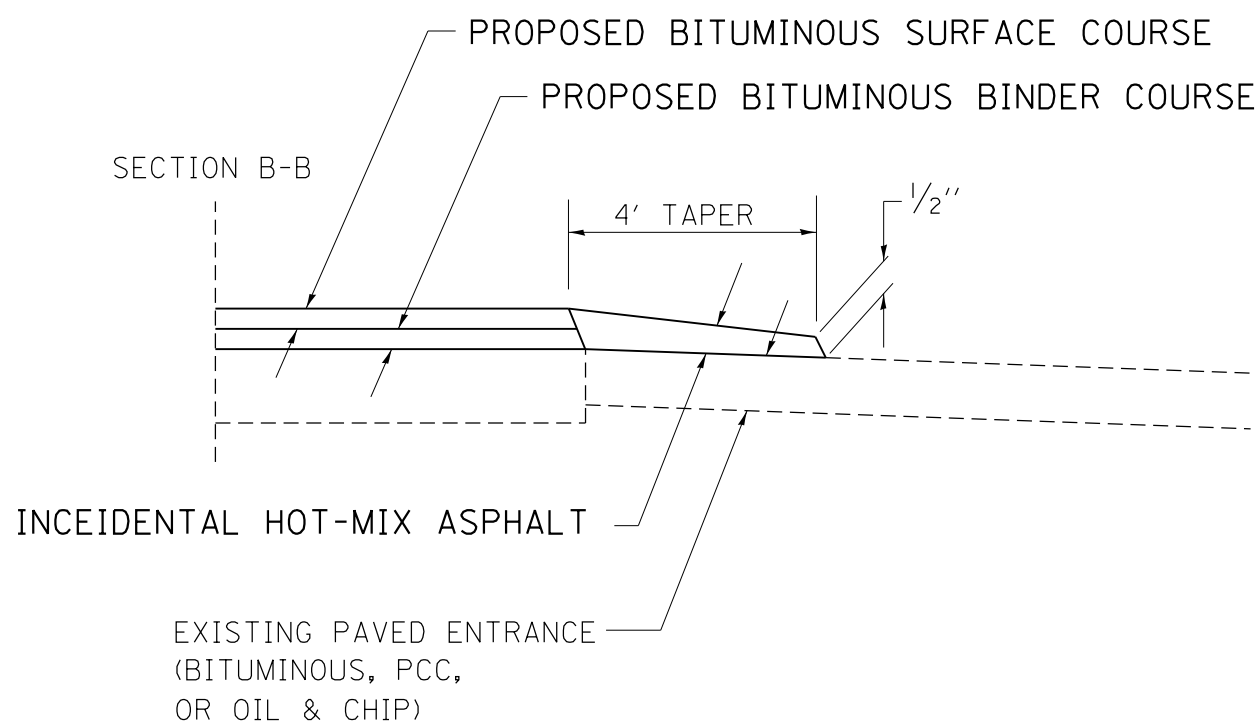
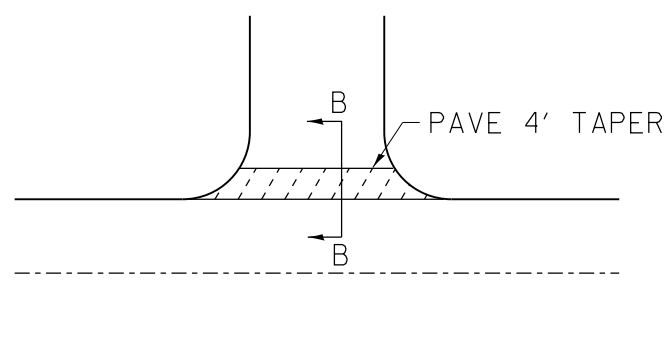
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	PLOT DATE = 9/12/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAILS: SIDEROAD; PRIVATE OR COMMERCIAL ENTRANCE (BITUMINOUS SHOULDERS)			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	(137,18R,137X,138Z)RS-4	ALEXANDER	15	14
CONTRACT NO. 78344				
ILLINOIS FED. AID PROJECT				

DETAIL OF BITUMINOUS, PCC, OR OIL & CHIP PRIVATE OR COMMERCIAL ENTRANCE



PREPARATION OF EXISTING SURFACE AND ANY EXCAVATION FOR ENTRANCES SHALL BE IN ACCORDANCE WITH ARTICLE 406.09 OF THE STANDARD OF SPECIFICATIONS.

TO BE USED: STA. 793+66 RT, STA. 795+46 RT, STA. 799+96 LT,
STA. 800+11 RT, AND STA. 804+52 RT

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	PLOT DATE = 9/12/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAIL: PRIVATE OR COMMERCIAL ENTRANCE (NO SHOULDERS)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	(137,18R,137X,138Z)RS-4	ALEXANDER	15	15
CONTRACT NO. 78344				
ILLINOIS FED. AID PROJECT				