4-27-07 Letting, Item 074

CONTRACT NO. 98991

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	JEFFERSON	17	1

* 724/821

** (14Z)TS-4;(14&1)RS-3

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3

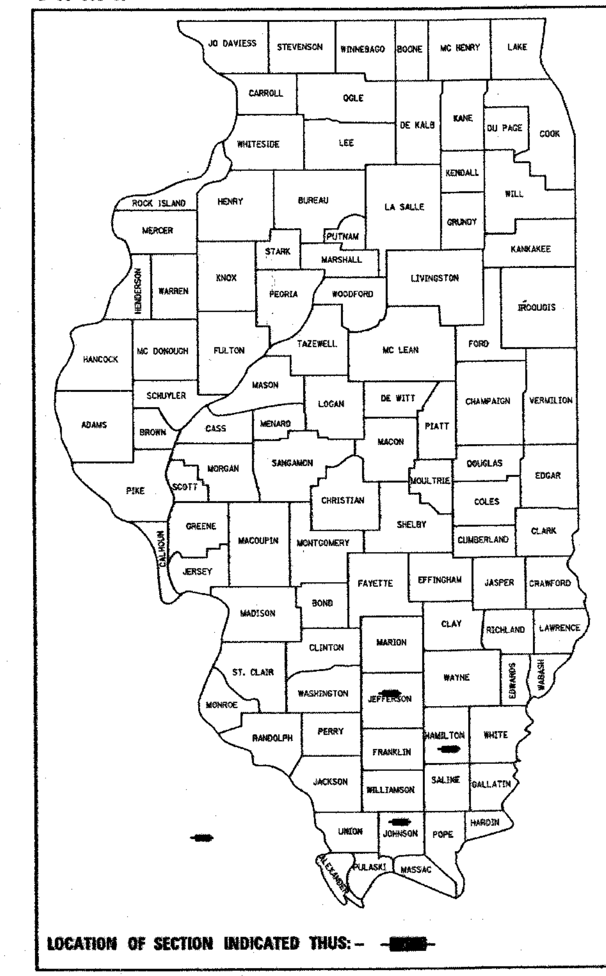
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

INTERSECTION IMPROVEMENT AND TRAFFIC SIGNAL MODIFICATION
FAP 724/821 (IL 37/15 JORDAN ST)
SECTION (14Z)TS-4; (14&1)RS-3
JEFFERSON COUNTY
C-99-006-07

PROJECT: HSIP-0005(540)

D-99-003-07



LOCATION OF SECTION INDICATED THUS:–

APPROACH	ADT (2007)	% TRUCKS
IL 37	9100	12%
BROADWAY (IL 15EB)	10100	12%

0 50' 100' — 1" = 50' PLAN

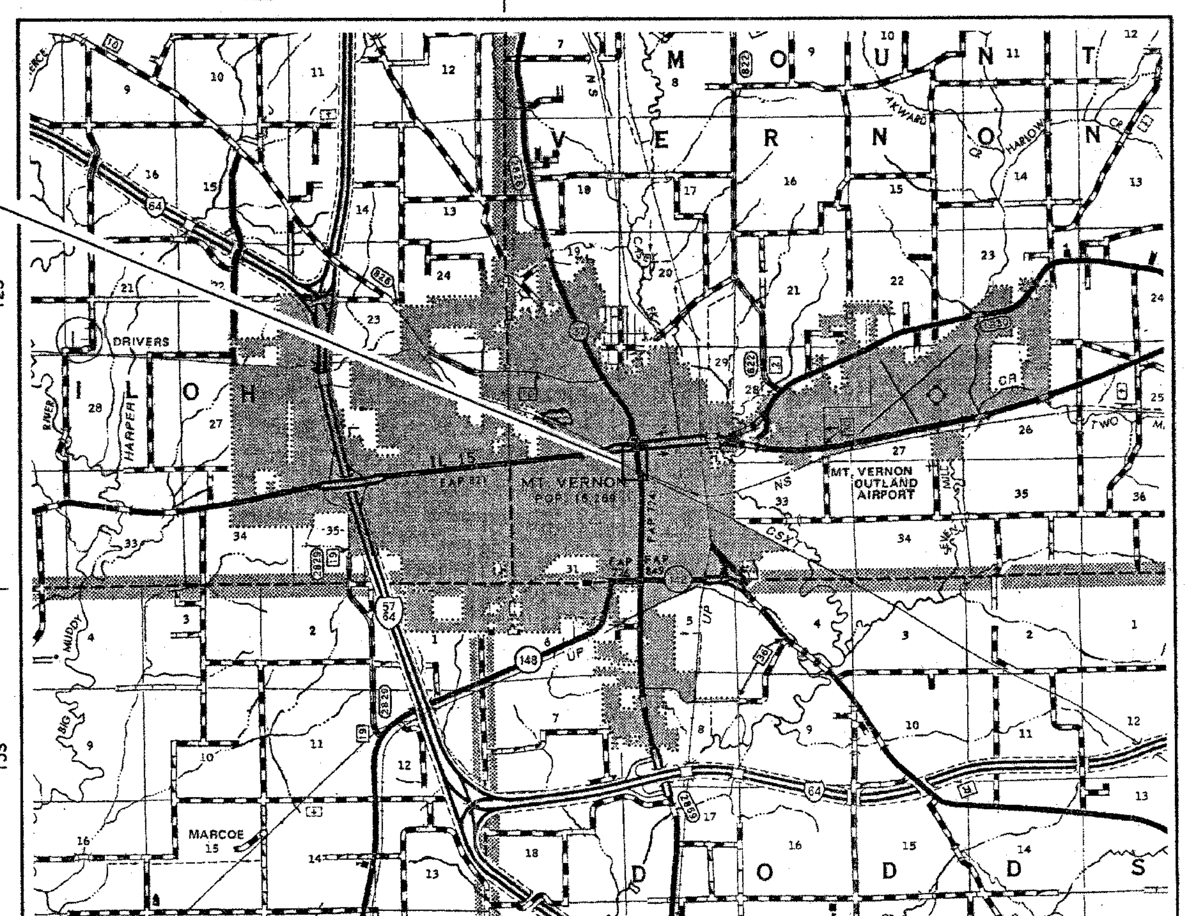
0 50' 100' — 1" = 30' PLAN

0 50' 100' — 1" = 20' PLAN

PROJECT LOCATION FAP 724 (IL 37)/
FAP 821 (IL 15/JORDAN ST)
INTERSECTION IMPROVEMENT AND
TRAFFIC SIGNAL MODIFICATION

R2E R3E

T2S T3S



IL 37 - GROSS LENGTH OF PROJECT = 0.106 MILES, NET LENGTH OF PROJECT = 0.106 MILES
IL 15EB - GROSS LENGTH OF PROJECT = 0.051 MILES, NET LENGTH OF PROJECT = 0.051 MILES

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 www.julie1call.com

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Jan 10 20 07
Mary C Lamie
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
March 23, 20 07
Eric E Harm /KD
Interim ENGINEER OF DESIGN AND ENVIRONMENT
March 23, 20 07
Milton R Sees, P.E. /KD
DIRECTOR, DIVISION OF HIGHWAYS

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(618) 549-2171 (2/3)
CENTREX 782-4554

1/29/2007
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50.0000 ' / IN.
bennettmk
PROJECT ENGINEER: SUSAN POE
SQUAD LEADER: SUSAN POE

MT VERNON TOWNSHIP

CONTRACT NO. 98991

CONTRACT NO. 98991

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	JEFFERSON	17	2

* 724/821

** (14Z)TS-4;(14&1)RS-3

GENERAL NOTES

THE THICKNESS OF BITUMINOUS MIXTURE 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 BITUMINOUS MIXTURE IS PLACED.

FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL BITUMINOUS CONCRETE	2.016 TONS/CU. YD.
ALL AGGREGATE	2.05 TONS/CU. YD.
BITUMINOUS MATERIALS:	
ON PAVEMENT	0.09 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.

QUANTITIES SHOWN IN THE PLANS FOR PATCHING ARE ESTIMATES. THE ACTUAL AMOUNT OF PATCHING REQUIRED SHALL BE DETERMINED BY THE ENGINEER.

THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION EACH FOR THE MILLED SURFACE, BINDER COURSE, AND SURFACE COURSE.

FORMS FOR COMBINATION CONCRETE CURB AND GUTTER SHALL BE OF METAL ONLY, EXCEPT THAT WOOD FORMS MAY BE USED ON SHORT RADIUS CURVES.

PROTECTIVE COAT SHALL BE APPLIED TO ALL GUTTER FLAGS, FACE OF CURB, AND MEDIAN SURFACE AS NEEDED ACCORDING TO THE SEASONAL REQUIREMENTS OF ARTICLE 420.21.

ATTAINMENT OF PROPER CROWN OR SUPERELEVATION SHALL BE FULLY ACCOMPLISHED WITH THE BITUMINOUS SURFACE REMOVAL OR BITUMINOUS CONCRETE BINDER COURSE OR LEVELING BINDER, WHEN SPECIFIED.

AT ALL LOCATIONS WHERE THE PROPOSED BITUMINOUS OR CONCRETE PAVEMENT JOINS AN EXISTING BITUMINOUS OR CONCRETE PAVEMENT, A FULL DEPTH SAWED JOINT SHALL BE CONSTRUCTED. THE COST OF THIS JOINT WILL BE INCLUDED IN THE COST OF THE TYPE OF PAVEMENT BEING CONSTRUCTED.

THE CONTRACTOR SHALL STAMP STATIONING IN THE BITUMINOUS SURFACE AT 100 m (300 FT.) INTERVALS ON THE OUTSIDE EDGE OF PAVEMENT AND AS DIRECTED BY THE ENGINEER. THE STATION SYMBOL STAMPS USED SHALL BE FURNISHED BY THE CONTRACTOR. THEY SHALL BE 140 mm (5 1/2 IN.) TALL OF A DESIGN APPROVED BY THE ENGINEER, AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

REMOVAL OF SURFACE LOCATED IN GUTTER FLAG SHALL BE INCIDENTAL TO HOT-MIX ASPHALT SURFACE REMOVAL.

ANY SAWCUTS REQUIRED AT THE EDGE OF PAVEMENT TO REMOVE THE EXISTING COMBINATION CURB AND GUTTER AT THE LOCATIONS INDICATED IN THE PLANS WILL BE INCLUDED IN THE COST OF THE COMBINATION CURB AND GUTTER REMOVAL.

SIGNALS:

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.

THE FURNISHING AND INSTALLATION OF THE 1 1/2" 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.

THE INDUCTION LOOP WIRE AND LEAD-IN WIRE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.

SHIELDED CABLE TO LOOP LEADS SHALL BE GROUNDED AT THE CONTROLLER TERMINAL ONLY.

SAWED SLOTS FOR TWISTED PAIR ELECTRIC CABLES SHALL BE LARGER THAN SINGLE CONDUCTOR LOOP SLOTS.

EXISTING SURFACE DISTURBED DURING EXCAVATION FOR FOUNDATIONS AND PUSH PITS SHALL BE RESTORED TO THE LIMITS AND CONDITIONS SPECIFIED BY THE ENGINEER OR AS SHOWN ON THE PLANS. UNLESS OTHERWISE NOTED ON THE PLANS THE REMOVAL AND RESTORATION SHALL BE INCLUDED IN THE CONTRACT.

CABLE QUANTITIES ARE MEASURED IN PLAN VIEW.

THE FINAL 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.

DETECTOR LOOPS SHALL BE INSTALLED PRIOR TO THE FINAL SURFACE INSTALLATION. THE DETECTOR LOOP CORNERS SHALL BE DIAGONALLY CUT.

THE CONTRACTOR SHALL NOTIFY THE IDOT ENGINEER OF TRAFFIC OPERATIONS 72 HOURS PRIOR TO THE SHUT-DOWN OR CUTTING OF EXISTING DETECTOR LOOPS.

THE EXISTING LOOP WIRE SHALL BE USED TO PULL THE NEW LOOP WIRES THROUGH THE EXISTING CONDUITS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED BUT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.

INDEX OF SHEETS

STANDARDS

000001-04	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
424001-04	CURB RAMPS FOR SIDEWALKS
701001-01	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-02	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701101-01	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-01	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701311-02	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701426-02	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION
701601-04	URBAN LANE CLOSURE, MUTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-04	URBAN LANE CLOSURE, MUTILANE, 2W WITH MOUNTABLE MEDIAN
701701-04	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-03	LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
780001-01	TYPICAL PAVEMENT MARKINGS
BLR 22-4	TYPICAL APPL. OF T.C.D. FOR RURAL LOC. HWYS. (2-LANE 2 WAY RURAL TRAFF.)(RD. CLOSED TO THRU TRAFF.)
857001	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
886001	DETECTOR LOOP INSTALLATIONS
886006	TYPICAL LAYOUT FOR DETECTION LOOPS

Prepared By: Joe Zblankiewicz
DISTRICT STUDIES & PLANS ENGINEER

Examined By: James Travis Emery
DISTRICT LAND ACQUISITION ENGINEER

Examined By: Carrie Nelson
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: Kevin Gramma
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Examined By: Joseph Lemin
DISTRICT CONSTRUCTION ENGINEER

Examined By: Bruce W. Pebles
DISTRICT MATERIALS ENGINEER

Examined By: Greg Smothers
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: Danny J. Clayton
ASSISTANT REGIONAL ENGINEER

Approved By: Mary Ellen Caroni
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Jan 10 2007
DATE

DATE-TIME
DGN-SPEC

CONTRACT NO. 98991

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
*	**	JEFFERSON	17	3

* 724/821

** (14Z)TS-4;(14&1)RS-3

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE I000-1A 90% FEDERAL 10% STATE	CONSTRUCTION TYPE CODE Y031-1F TRAFFIC SIGNALS 90% FEDERAL 10% STATE	CONSTRUCTION TYPE CODE Y025 90% FEDERAL 10% CITY
31100300	SUB-BASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	106	106		
35300400	PORTLAND CEMENT CONCRETE BASE COURSE 9"	SQ YD	95	95		
40600115	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	GALLON	533	419		114
40600300	AGGREGATE (PRIME COAT)	TON	9	7		2
40600855	POLYMERIZED LEVELING BINDER (MACHINE METHOD), N105	TON	21	18		3
40600990	TEMPORARY RAMP	SQ YD	356	356		
40603550	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N105	TON	455	352		103
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	162	162		
44000100	PAVEMENT REMOVAL	SQ YD	95	95		
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	5043	4862		181
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2	SQ YD	275	231		44
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	92	92		
44000600	SIDEWALK REMOVAL	SQ FT	162	162		
44200150	PAVMENT PATCHING, TYPE IV, 12 INCH	SQ YD	30	30		
~~44300200~~	~~STRIP REFLECTIVE CRACK CONTROL TREATMENT~~	~~FOOT~~	~~3438~~	~~3438~~		
60603800	COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.12	FOOT	92	92		
67100100	MOBILIZATION	L SUM	1	1		
~~70100330~~	~~TRAFFIC CONTROL AND PROTECTION, STANDARD 701426~~	~~L SUM~~	~~1~~	~~1~~		
70101835	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 22	L SUM	1	1		
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1		
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1		
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1		
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1		
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	1.5	1.5		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	3325	3325		
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	121	121		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1748	1386		362
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	876	876		
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	233	233		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1107	1107		
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	121	121		
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1748	1386		362
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	876	876		
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	233	233		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	80	80		
80300100	LOCATING UNDERGROUND CABLE	FOOT	60		60	
81012500	CONDUIT IN TRENCH, 1 1/2" DIA., PVC	FOOT	27		27	

* SPECIALTY ITEMS

Rev. Rev.

SUMMARY OF QUANTITIES

CONTRACT NO. 98991

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
*	**	JEFFERSON	17	4

* 724/821

** (14Z)TS-4;(14&1)RS-3

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE I000-1A 90% FEDERAL 10% STATE	CONSTRUCTION TYPE CODE Y031-1F TRAFFIC SIGNALS 90% FEDERAL 10% STATE	CONSTRUCTION TYPE CODE Y025 90% FEDERAL 10% CITY
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	27		27	
86000100	MASTER CONTROLLER	EACH	1		1	
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	473		473	
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1120		1120	
87900200	DRILL EXISTING HANDHOLE	EACH	4		4	
88600100	DETECTOR LOOP, TYPE 1	FOOT	1233		1233	
88800100	PEDESTRIAN PUSH BUTTON	EACH	8		8	
89502205	MODIFY EXISTING CONTROLLER (SPECIAL)	EACH	2		2	
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1	
X0300737	RADIO TRANSCEIVER	EACH	2		2	
X8850107	INDUCTIVE LOOP DETECTOR, RACK MOUNT WITH SYSTEM OUTPUT	EACH	3		3	
X0325703	MAST ARM REPLACEMENT (SPECIAL)	EACH	1		1	
X0325704	DRILL EXISTING FOUNDATION (SPECIAL)	EACH	1		1	

SUMMARY OF QUANTITIES

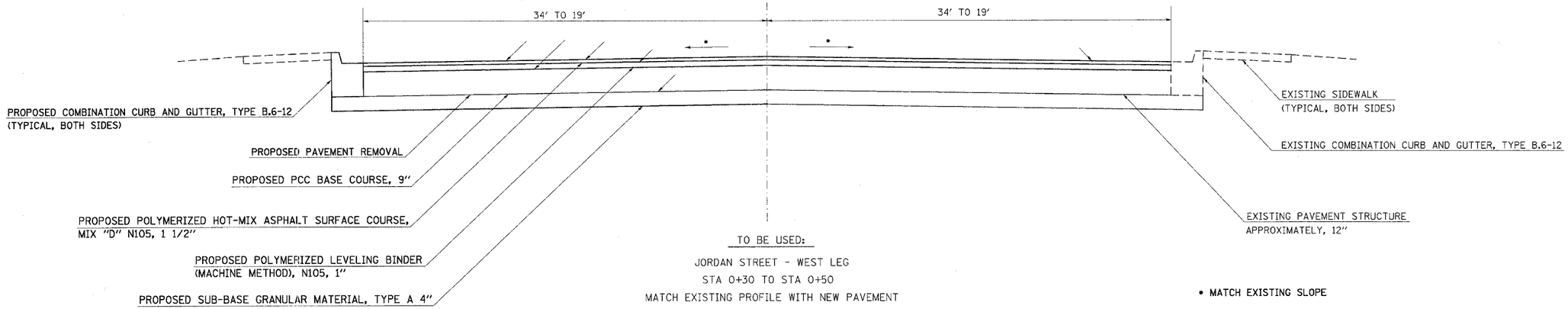
CONTRACT NO. 98991

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	JEFFERSON	17	5

* 724/821

** (14Z)TS-4;(14&1)RS-3

℄
JORDAN STREET - WEST LEG
RECONSTRUCTION SECTION

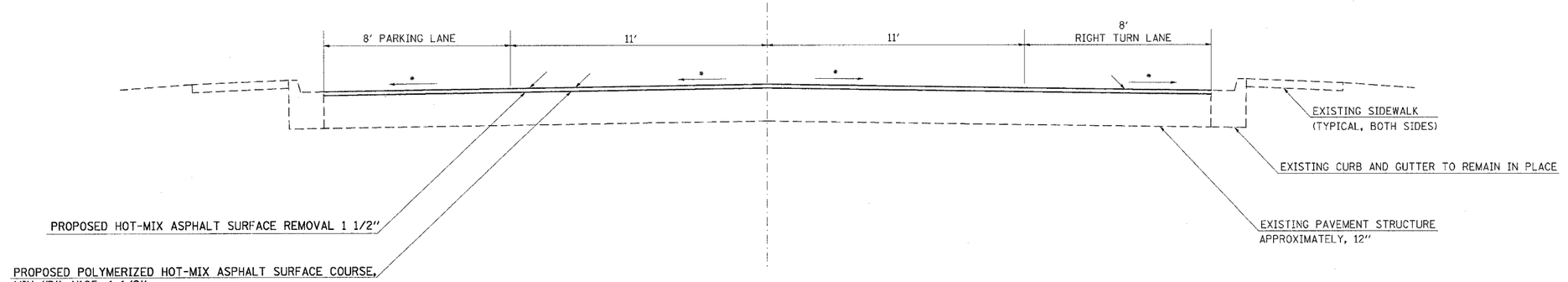


TO BE USED:

JORDAN STREET - WEST LEG
STA 0+30 TO STA 0+50
MATCH EXISTING PROFILE WITH NEW PAVEMENT

• MATCH EXISTING SLOPE

℄
JORDAN STREET
INLAY SECTION



TO BE USED:

JORDAN STREET - WEST LEG
STA 0+50 TO STA 0+93.6
JORDAN STREET - EAST LEG
STA 0+30.4 TO STA 0+90.4

• MATCH EXISTING SLOPE

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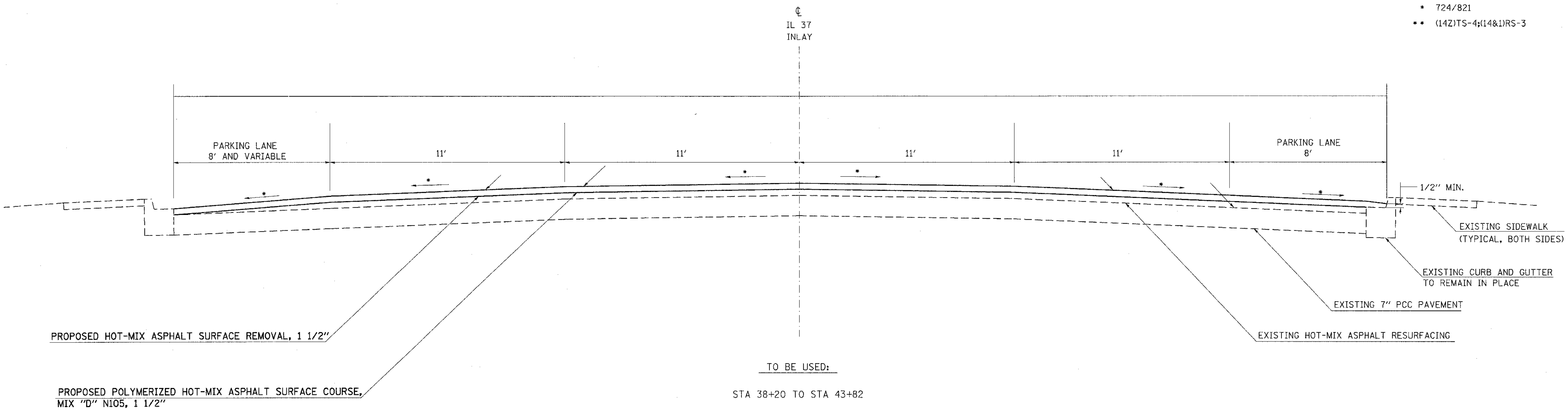
TYPICAL SECTIONS: JORDAN STREET

CONTRACT NO. 98991

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
*	**	JEFFERSON	17	6
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS		

* 724/821

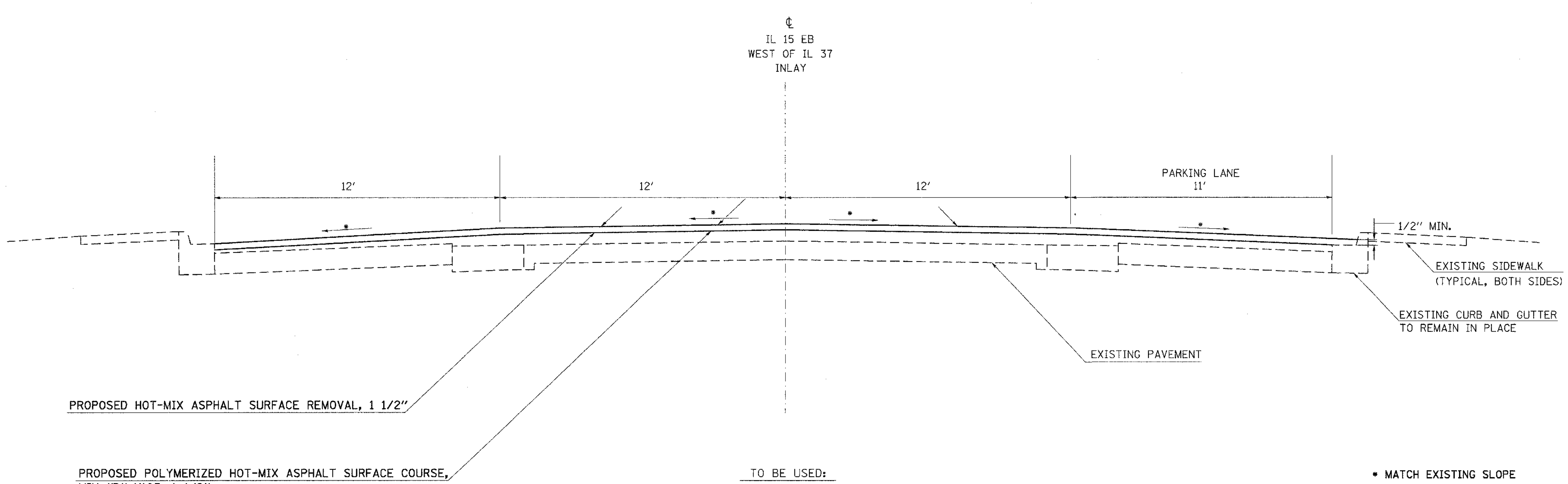
** (14Z)TS-4;(14&1)RS-3



TO BE USED:

STA 38+20 TO STA 43+82

* MATCH EXISTING SLOPE



TO BE USED:

STA 45+08.9 TO STA 46+09.3

* MATCH EXISTING SLOPE

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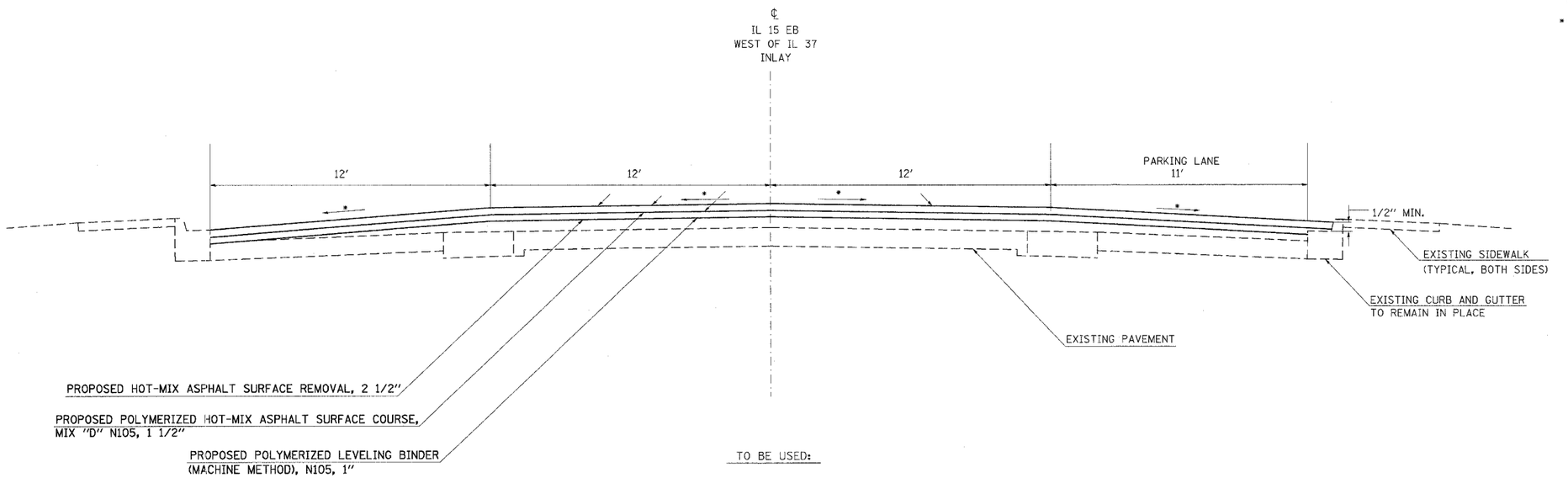
TYPICAL SECTIONS: IL 37, IL 15EB

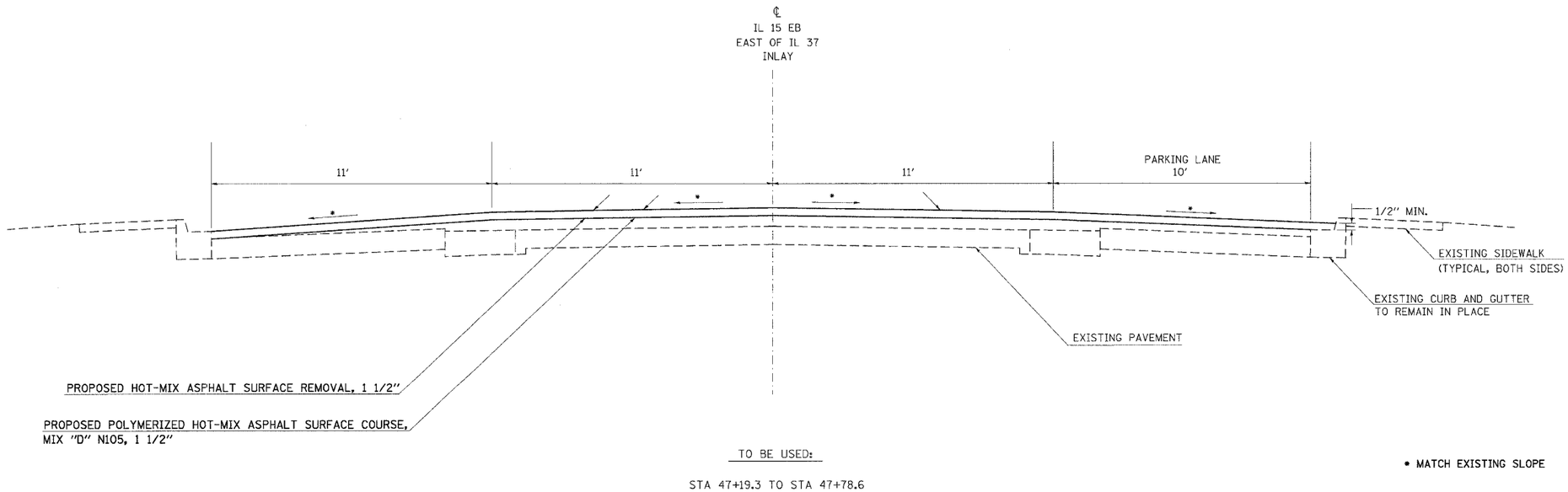
CONTRACT NO. 98991

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
*	**	JEFFERSON	17	7
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

* 724/821

** (14Z)TS-4;(14&1)RS-3





TYPICAL SECTIONS: IL 15EB

CONTRACT NO. 98991

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
*	**	JEFFERSON	17	8

* 724/821

** (14Z)TS-4;(14&1)RS-3

PAVING SCHEDULE

LOCATION STATION TO STATION	HOT-MIX ASPHALT SURFACE REMOVAL - 1 1/2 INCH	HOT-MIX ASPHALT SURFACE REMOVAL - 2 1/2 INCH	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N105	POLYMERIZED LEVELING BINDER (MACHINE METHOD), N105	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	PAVEMENT REMOVAL	PCC BASE COURSE, 9"
	SQ YD	SQ YD	TON	TON	TON	GALLON	SQ YD	SQ YD
IL 37								
STA 38+20 TO STA 43+82	3772		316.8		339.4	5.7		
JORDAN ST								
STA 0+30 TO 0+50 (WEST, PAVEMENT REPLACEMENT)			8.0	5.3	25.7	0.4	95.2	95.2
0+50 TO 0+93.6 (WEST)	184		15.5		16.6	0.3		
STA 0+30.4 TO STA 0+90.4 (EAST)	264		22.2		23.8	0.4		
BROADWAY (IL 15 EB)								
STA 45+08.9 TO STA 46+09.3	524		44.0		47.2	0.8		
STA 46+09.3 TO STA 46+58.9		275.0	23.1	15.4	49.4	0.8		
STA 47+19.3 TO STA 47+78.3	299		25.0		26.8	0.4		
TOTAL	5043	275	455	21	529	9	95	95

TEMPORARY RAMP

LOCATION STATION TO STATION	TEMPORARY RAMP
	SQ YD
IL 37	
STA 38+20 (BEGINNING OF JOB)	34
STA 43+82 (END OF JOB)	33
JORDAN ST	
STA 0+30 (WEST LEG FOR MAINLINE SURFACING)	38
STA 0+30 (EAST LEG FOR MAINLINE SURFACING)	38
STA 0+93.6 (WEST END)	21
STA 0+90.4 (EAST END)	21
BROADWAY (IL 15 EB)	
STA 45+08.9 (BEGINNING OF IL 15EB SECTION)	26
STA 46+59 (WEST LEG FOR MAINLINE SURFACING)	77
STA 47+19.3 (EAST LEG FOR MAINLINE SURFACING)	44
STA 47+78.6 (END OF IL 15 EB SECTION)	24
TOTAL	356

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BENNETTMK

PAVEMENT AND TEMPORARY RAMP SCHEDULE

CONTRACT NO. 98991

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
*	**	JEFFERSON	17	9

* 724/821

** (14Z)TS-4;(14&1)RS-3

PAVEMENT MARKINGS SCHEDULE

LOCATION STATION TO STATION	THERMOPLASTIC PAVEMENT MARKING LETTERS & SYMBOLS (WHITE)	THERMOPLASTIC PAVEMENT MARKING LINE 4" (WHITE SKIP-DASH)	THERMOPLASTIC PAVEMENT MARKING LINE 4" (WHITE SOLID)	THERMOPLASTIC PAVEMENT MARKING LINE 4" (DOUBLE YELLOW)	THERMOPLASTIC PAVEMENT MARKING LINE 4" (WHITE PARKING)	THERMOPLASTIC PAVEMENT MARKING LINE 6" (WHITE SOLID)	THERMOPLASTIC PAVEMENT MARKING LINE 24" (WHITE SOLID)
	SQ FT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT
IL 37							
STA 38+20 TO STA 38+71.5		34.1		103			
STA 38+71 (STOP BAR)							35
STA 39+57 TO 42+65 (RT PARKING LINES)					115		
STA 39+57.8 (STOP BAR)							35
STA 39+57.8 TO 42+75.4		211.7		635.2			
STA 39+79 TO 42+65 (LT PARKING LINES)					107		
STA 42+76.5 (STOP BAR)							32.6
STA 43+48.3 (STOP BAR)							33.4
STA 43+48.3 TO STA 43+82		22.5		67.4			
JORDAN ST							
STA 0+42.6 (WEST STOP BAR)							23
STA 0+42.6 TO STA 0+93.6 (WEST)			51	102			
STA 0+46 TO 0+92.5 (RT PARKING LINES)					21.5		
STA 0+43.4 (EAST STOP BAR)							24
STA 0+43.4 TO STA 0+90.0 (EAST)			47	93.2			
BROADWAY (IL 15EB)							
STA 45+08.9 TO 46+39.6 (2 - LANE DIVIDER LINES)			261.4				
STA 45+21.1 TO STA 46+11.6					37.5		
STA 45+39 @ 17.3 FT LT (COMB. LEFT ARROW)	26						
STA 45+14 @ 5.2 FT LT (ONLY & THRU ARROW)	32.3						
STA 45+39 @ 5.2 FT RT (COMB. RT ARROW)	26						
STA 46+39.6 (STOP BAR)							
STA 47+18.9 TO 47+78.6 (2 - LANE DIVIDER LINES)			119.4				
STA 47+46 @ 14 FT LT (ONLY & LT. ARROW)	36.4						50
IL 37/JORDAN ST INTERSECTION							
CROSS WALK						436	
IL 37/BROADWAY INTERSECTION							
CROSSWALK						439.6	
SUB TOTALS	120.7	268.3	478.8	1000.8	281	875.6	233
GRAND TOTALS	121	2029				876	233

PAVEMENT MARKING SCHEDULE

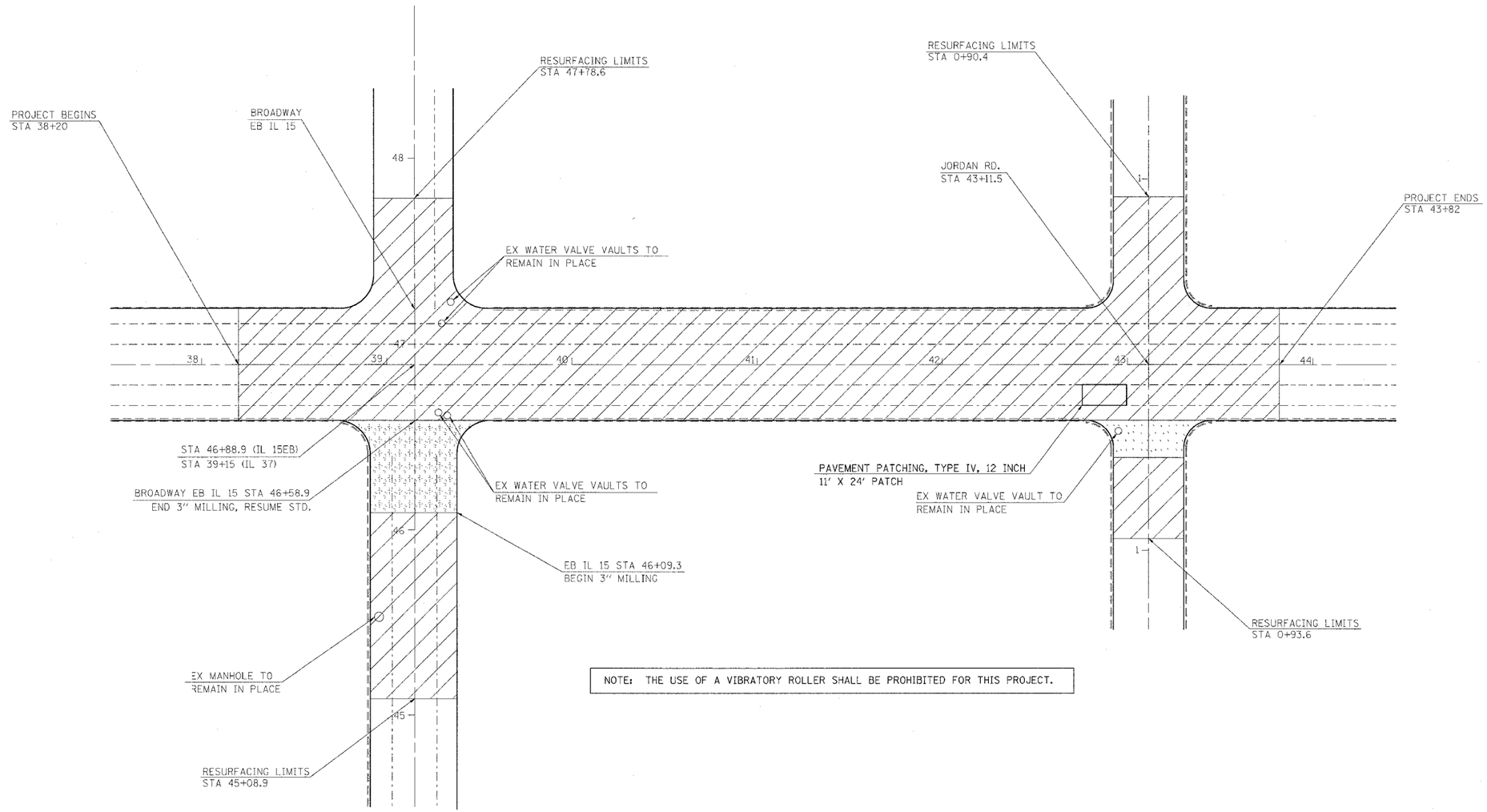
CONTRACT NO. 98991

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	JEFFERSON	17	10
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* 724/821
** (14Z)TS-4;(14&1)RS-3

NOTES:
FOR SIDEWALK REMOVAL SEE SHEET NO. 16

30' 0 15' 30'



NOTE: THE USE OF A VIBRATORY ROLLER SHALL BE PROHIBITED FOR THIS PROJECT.

HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2" AND POLYMERIZED
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N105, 1 1/2"

HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2", POLYMERIZED
LEVELING BINDER (MACHINE METHOD), N105, 1" AND POLYMERIZED
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N105, 1 1/2"

PAVEMENT REMOVAL, PCC BASE COURSE, 9", POLYMERIZED LEVELING
BINDER (MACHINE METHOD), N105, 1" AND POLYMERIZED HOT-MIX ASPHALT
SURFACE COURSE MIX "D", N105, 1 1/2"

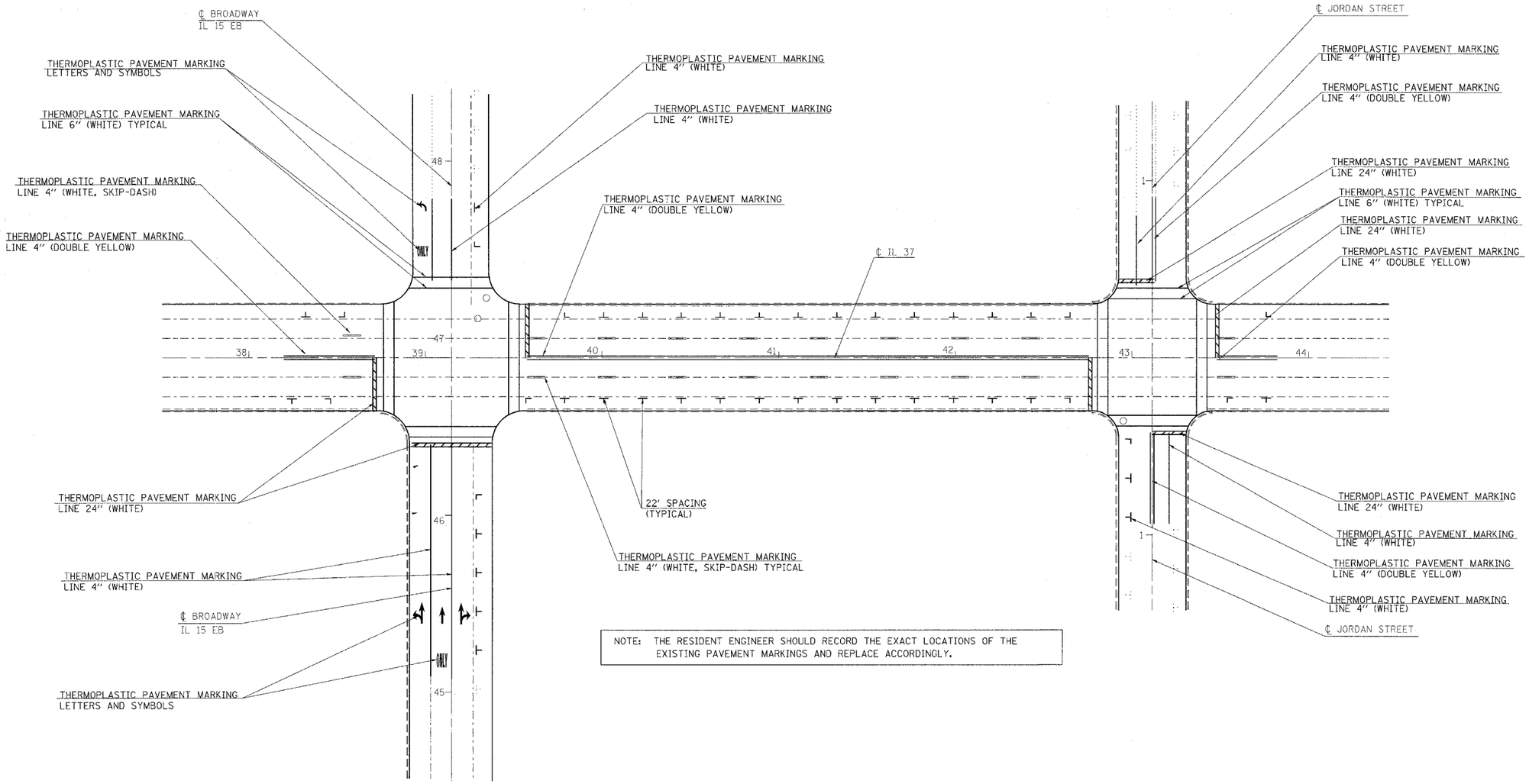
PLOT DATE = 1/24/2027
FILE NAME = c:\projects\p98W397\c98W397p1.sc2
PLOT SCALE = 50.0000 ' / IN.
USER NAME = BENNETTMK

CONSTRUCTION AND REMOVAL DETAILS

CONTRACT NO. 98991

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	JEFFERSON	17	11
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* 724/821
** (14Z)TS-4;(14&1)RS-3



NOTE: THE RESIDENT ENGINEER SHOULD RECORD THE EXACT LOCATIONS OF THE EXISTING PAVEMENT MARKINGS AND REPLACE ACCORDINGLY.

PLOT DATE = 1/24/2007
FILE NAME = c:\projects\r98038?\r98038?pl.m32
PLOT SCALE = 30.0000 '/ IN.
USER NAME = BENNETTMK

PAVEMENT MARKING DETAILS

CONTRACT NO. 98991

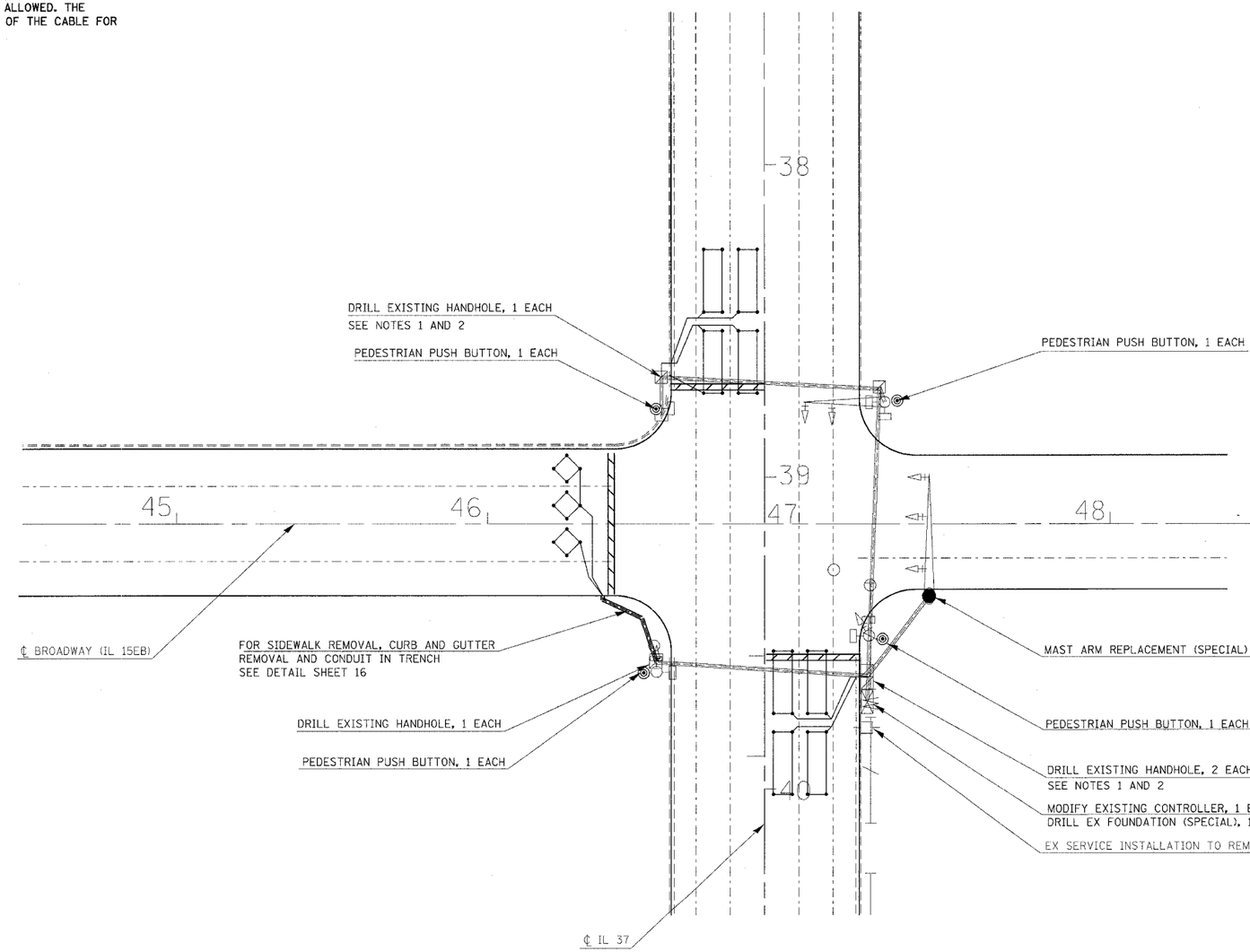
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	JEFFERSON	17	12
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

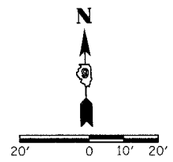
* 724/821

** (14Z)TS-4;(14&1)RS-3

GENERAL NOTES

1. ALL WORK & MATERIAL INVOLVED IN SPLICING THE NEW CONDUIT TO EXISTING FOUNDATIONS & HANDHOLES SHALL BE INCLUDED IN THE COST OF CONDUIT.
2. WHEN DRILLING EX HANDHOLES DIRECTLY ADJACENT TO THE EX CURB, THE DRILLING OF THE CURB AND HANDHOLE WILL BE PERFORMED WITHOUT ANY SIDEWALK REMOVAL OR EXCAVATION. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
3. ALIGNMENTS AND STATIONING ARE FOR REFERENCE ONLY
4. THE NEW CABLE FOR THE PR PEDESTRIAN PUSH BUTTONS AT BROADWAY WILL BE RUN THROUGH THE EXISTING CONDUIT, NO ADDITIONAL COMPENSATION WILL BE ALLOWED. THE COST SHALL BE INCLUDED IN THE COST OF THE CABLE FOR THE PUSH BUTTONS.





LEGEND

	PROPOSED DETECTOR LOOPS
	PROPOSED PVC CONDUIT
	EXISTING PVC CONDUIT
	EXISTING COMBINATION MAST ARM AND POLE WITH MAST ARM AND BRACKET MOUNTED SIGNAL HEADS
	EXISTING BRACKET MOUNTED SIGNAL HEAD
	EXISTING MAST ARM MOUNTED SIGNAL HEAD
	EXISTING PEDESTRIAN SIGNAL HEAD
	PROPOSED PEDESTRIAN PUSH-BUTTON
	EXISTING CONCRETE HANDHOLE
	EXISTING GULFBOX JUNCTION
	EXISTING CONTROLLER
T	CONDUIT IN TRENCH
A	AUGURED CONDUIT
__" PVC	SIZE OF CONDUIT

PLOT DATE = 1/24/2007
FILE NAME = c:\projects\d9803\d9803pl.m32
PLOT SCALE = 24.0000 ' / IN.
USER NAME = BENNETTMK

TRAFFIC SIGNAL DETAILS:BROADWAY

CONTRACT NO. 98991

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
*	**	JEFFERSON	17	13

* 724/821

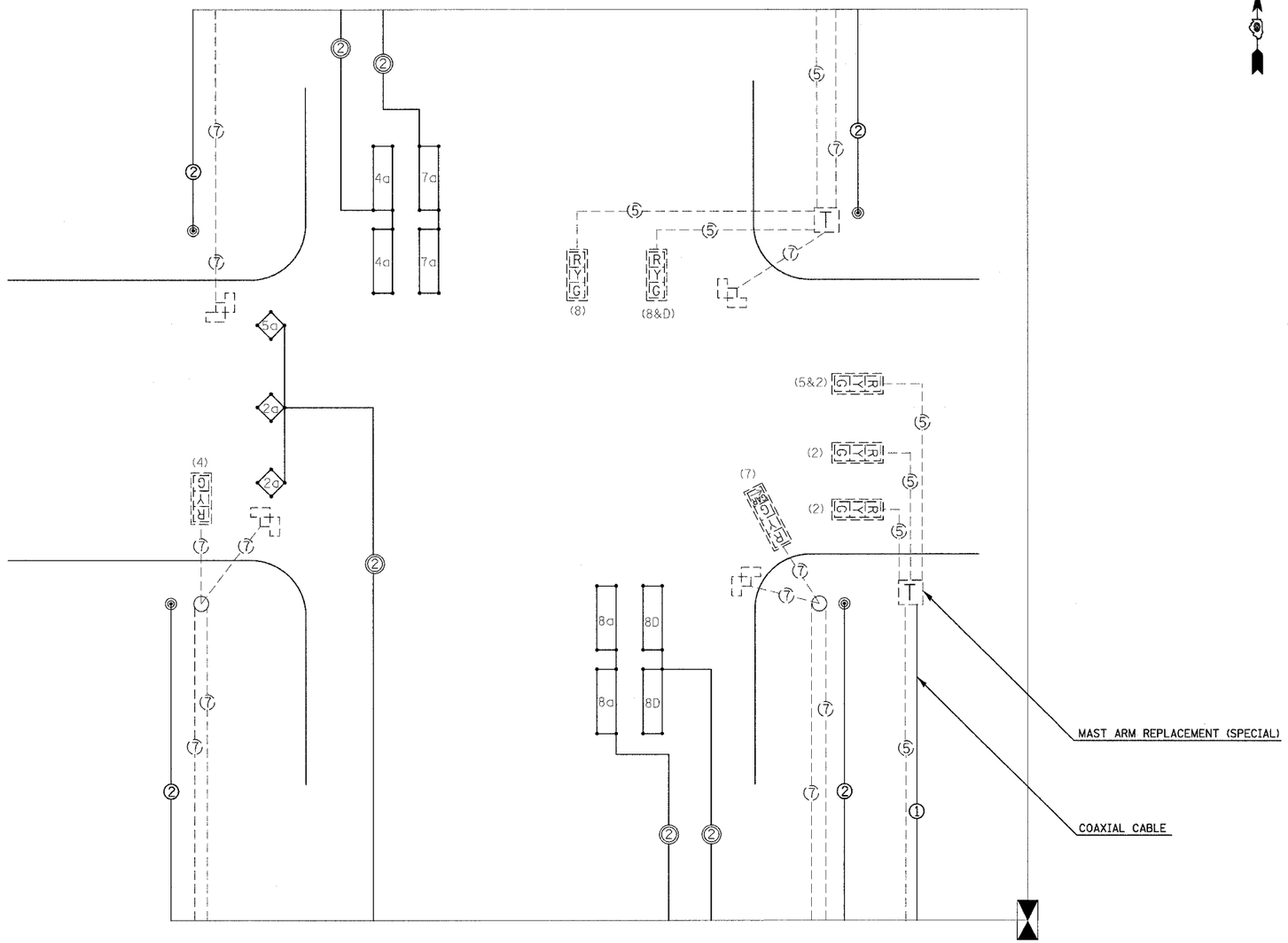
** (14Z)TS-4;(14&1)RS-3

NOTES:

1. ALL CABLES SHALL BE A.W.G. #14 UNLESS OTHERWISE NOTED.
2. NOT TO SCALE

LEGEND

- [T] INDICATES EX TERMINAL BLOCK ON MAST ARM POLE
- 8a INDICATES 6' X 20' DETECTOR LOOP WITH 2" CORE DRILLED CORNERS. NUMBER INDICATES PHASE, LOWER CASE LETTER INDICATES AMPLIFIER
- EXISTING TRAFFIC SIGNAL CONTROLLER CABINET
- (2) INDICATES 2/C TWISTED, SHIELDED CABLE IN CONDUIT
- (5) NUMBER IN CIRCLE INDICATES NUMBER OF CONDUCTORS IN THAT CABLE
- (3) NUMBER IN PARENTHESIS INDICATES PHASE
- 1a NUMBER INDICATES PHASE; LETTER OR LETTERS IDENTIFY AMPLIFIER
- EX PEDESTRIAN SIGNAL HEADS
- EX TRAFFIC SIGNAL HEADS
- PR PEDESTRIAN PUSH BUTTON



1/24/2007
c:\prc3_jobs\d902327\cd902327pl.m32
56.2000 */ IN.
BENNETTMK

TRAFFIC SIGNAL CABLE DIAGRAM:BROADWAY

CONTRACT NO. 98991

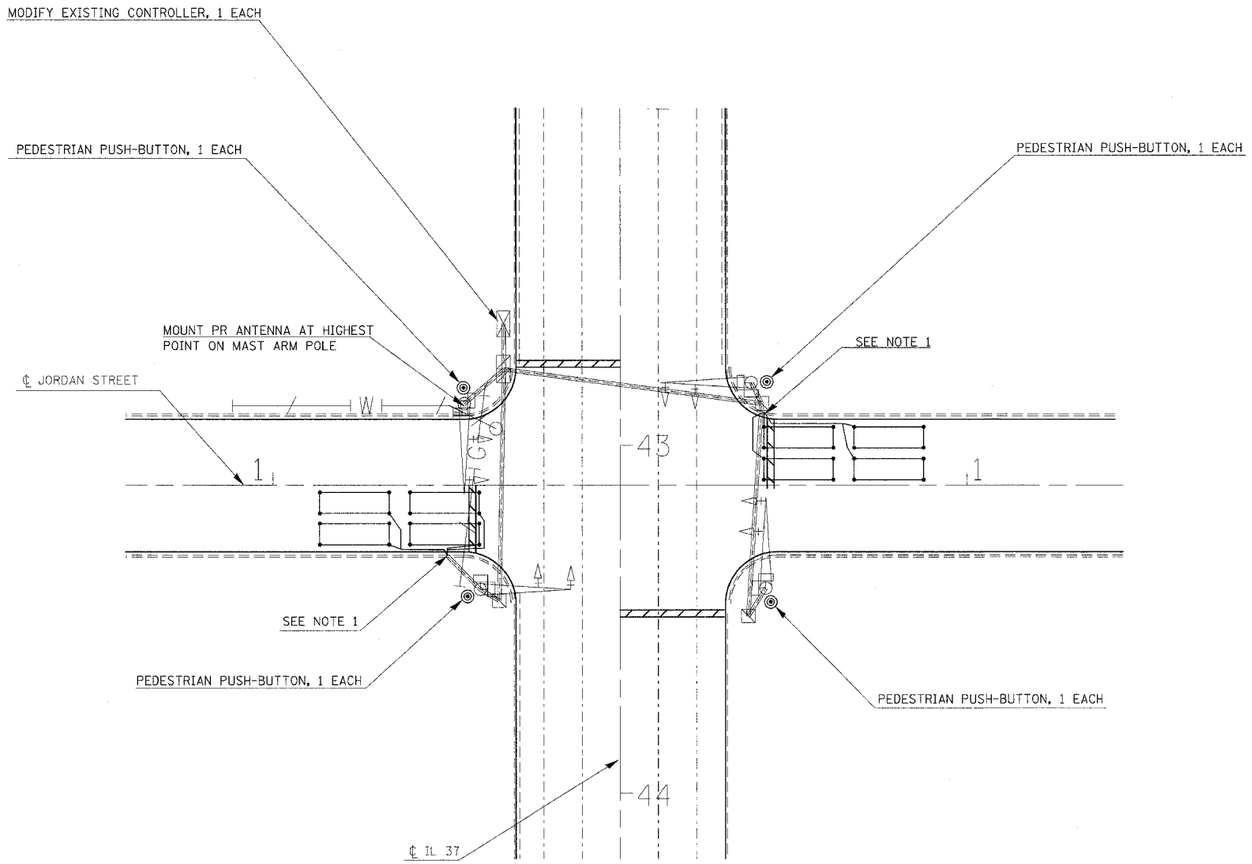
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	JEFFERSON	17	14
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

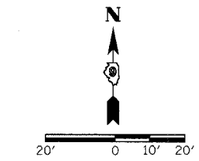
* 724/821

** (14Z)TS-4;(14&1)RS-3

GENERAL NOTES

1. THE NEW LOOP SHALL ENTER THE HANDHOLE THROUGH THE EXISTING LOOP CONDUIT IN THE CURB AND GUTTER .
2. THE EX LOOP LEAD-IN CABLE WILL BE USED TO PULL IN NEW LOOP LEAD-IN CABLE FOR THE PROPOSED DETECTOR LOOPS.
3. ALL WORK & MATERIAL INVOLVED IN SPLICING THE NEW CONDUIT TO EXISTING FOUNDATIONS & HANDHOLES SHALL BE INCLUDED IN THE COST OF CONDUIT
4. ALIGNMENTS AND STATIONING ARE FOR REFERENCE ONLY
5. THE PAY ITEM FOR REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL INCLUDE ALL WORK NECESSARY FOR THE REMOVAL OF THE FOLLOWING ITEMS:
   (4) PEDESTRIAN PUSH-BUTTONS





LEGEND

- PROPOSED DETECTOR LOOPS
- PROPOSED PVC CONDUIT
- EXISTING PVC CONDUIT
- EXISTING COMBINATION MAST ARM AND POLE WITH MAST ARM AND BRACKET MOUNTED SIGNAL HEADS
- PROPOSED MAST ARM MOUNTED SIGNAL HEAD
- PROPOSED PEDESTRIAN SIGNAL HEAD
- PROPOSED PEDESTRIAN PUSH-BUTTON
- EXISTING CONCRETE HANDHOLE
- EXISTING GULFBOX JUNCTION
- EXISTING CONTROLLER
- T — CONDUIT IN TRENCH
- A — AUGURED CONDUIT
- __" PVC — SIZE OF CONDUIT

PLOT DATE = 1/24/2007
FILE NAME = c:\projects\d9803397\d9803397pl.n32
PLOT SCALE = 20.0000 '/ IN.
USER NAME = BENNETTMK

TRAFFIC SIGNAL DETAILS:JORDAN STREET

CONTRACT NO. 98991

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
*	**	JEFFERSON	17	15

* 724/821

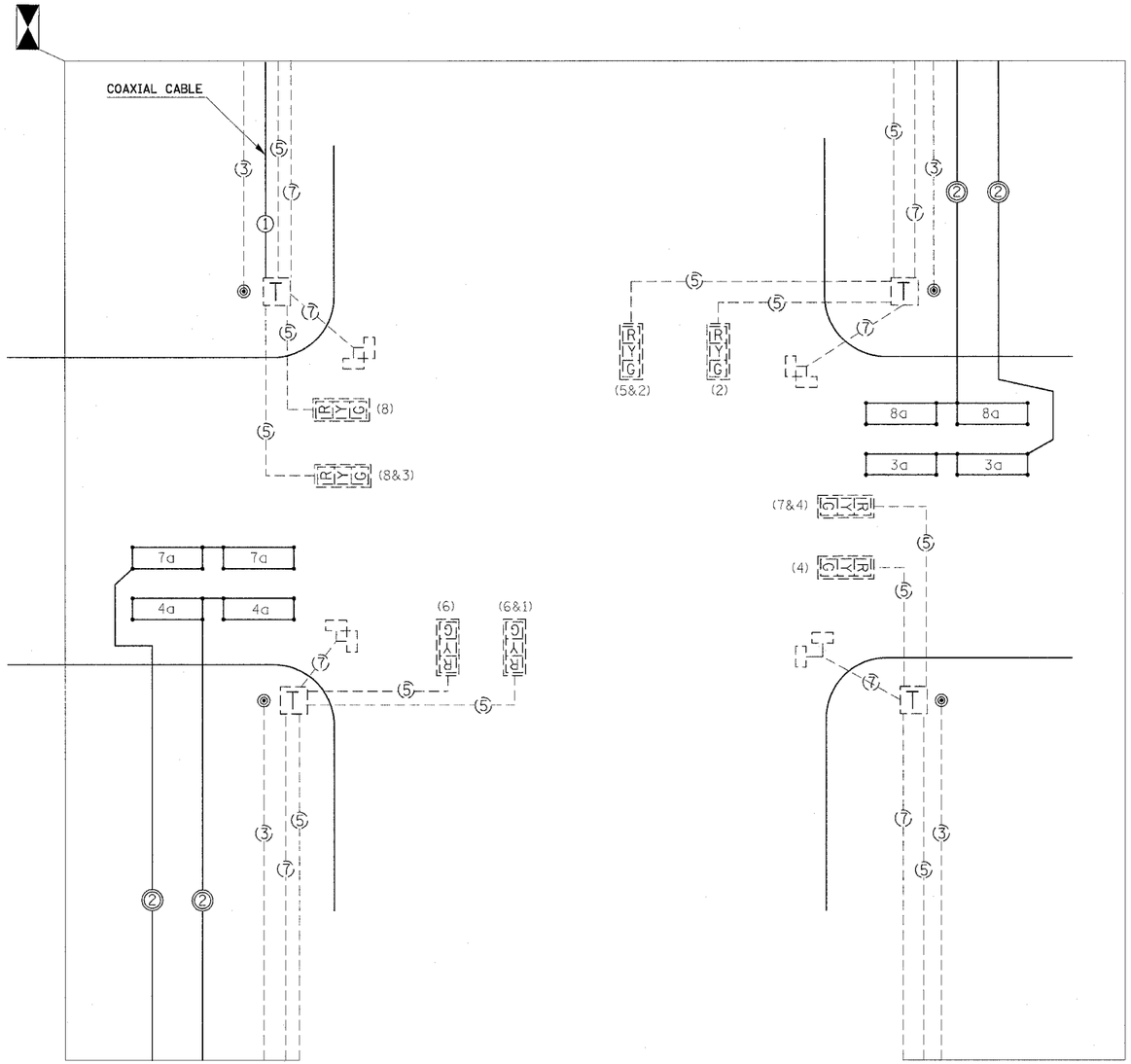
** (14Z)TS-4;(14&1)RS-3

NOTES:

1. ALL CABLES SHALL BE A.W.G. #14 UNLESS OTHERWISE NOTED.
2. THE COAXIAL CABLE IN THE NW QUAD SHALL BE USED FOR THE INSTALLATION OF THE RADIO TRANSIEVER ANTENNA MOUNTED ON TOP OF THE NW MAST ARM.
3. NOT TO SCALE

LEGEND

- [T] INDICATES EX TERMINAL BLOCK ON MAST ARM POLE
- 8a INDICATES 6' X 20' DETECTOR LOOP WITH 2" CORE DRILLED CORNERS. NUMBER INDICATES PHASE, LOWER CASE LETTER INDICATES AMPLIFIER
- EXISTING TRAFFIC SIGNAL CONTROLLER CABINET
- (2) INDICATES 2/C TWISTED, SHIELDED CABLE IN CONDUIT
- (5) NUMBER IN CIRCLE INDICATES NUMBER OF CONDUCTORS IN THAT CABLE
- (3) NUMBER IN PARENTHESIS INDICATES PHASE
- 1a NUMBER INDICATES PHASE; LETTER OR LETTERS IDENTIFY AMPLIFIER
- EXISTING PEDESTRIAN SIGNAL HEADS
- [R Y G] EXISTING TRAFFIC SIGNAL HEADS
- PROP PEDESTRIAN PUSH-BUTTON



N

1/25/2007
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10.2020 1 / 1 IN.
bennettek

TRAFFIC SIGNAL CABLE DIAGRAM:JORDAN STREET

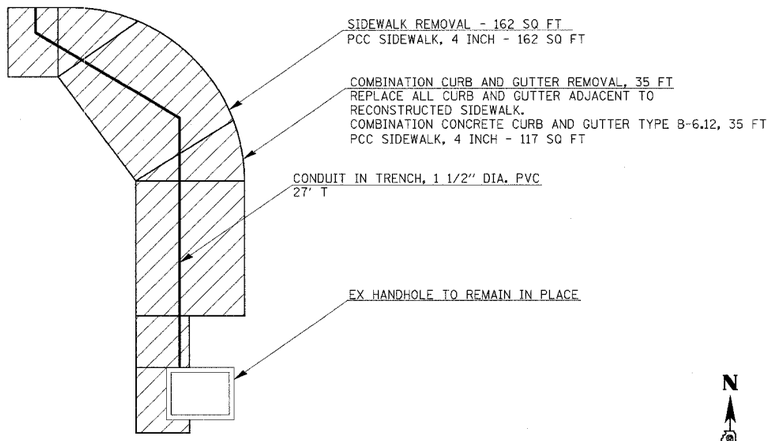
CONTRACT NO. 98991

F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
*	**	JEFFERSON	17	16
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	

* 724/821

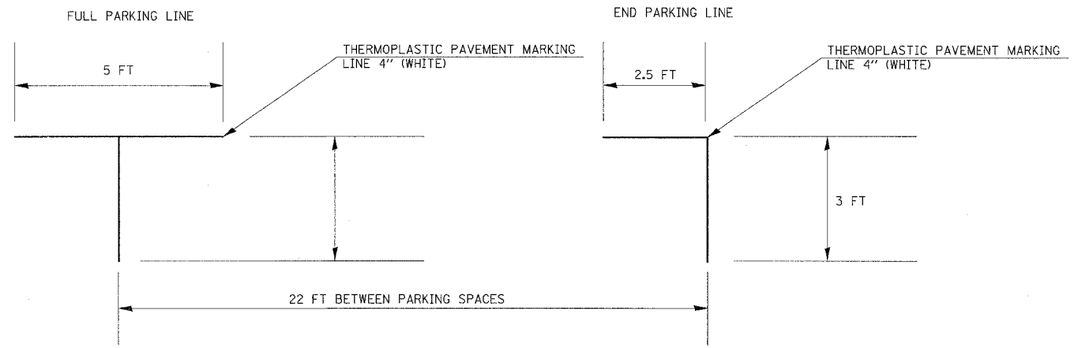
** (14Z)TS-4;(14&1)RS-3

SIDEWALK REMOVAL AT BROADWAY, SW QUADRANT STA 39+36 TO STA 39+62

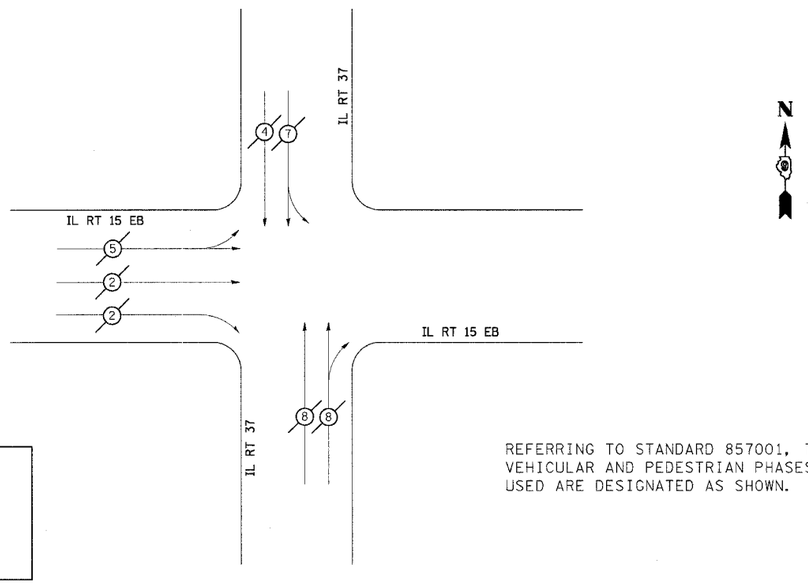


INDICATES SIDEWALK REMOVAL AND REPLACEMENT

DETAIL OF PARKING LANE PAVEMENT MARKINGS



PHASE DESIGNATION DIAGRAM
IL RTE 15 EB WITH IL RTE 37



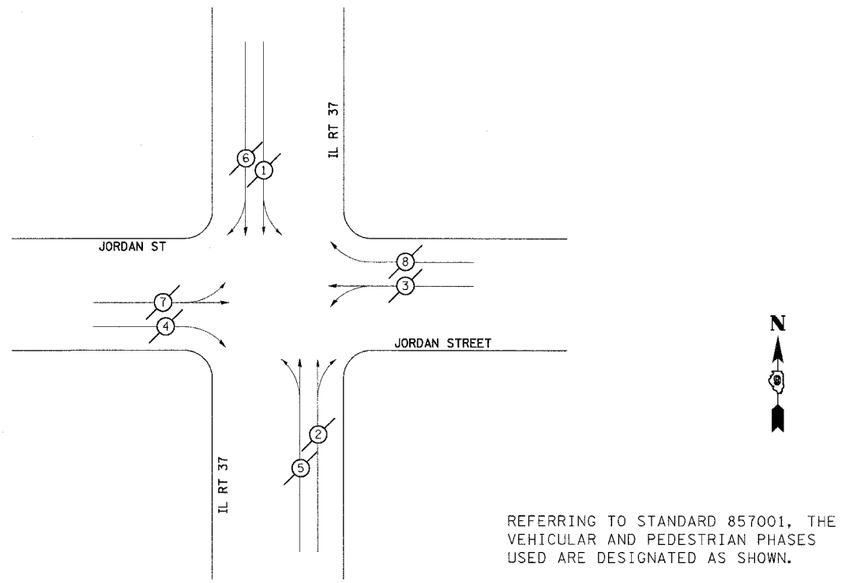
LEGEND

VEHICULAR MOVEMENT

NUMBER REFERS TO ASSOCIATED PHASE

REFERRING TO STANDARD 857001, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED AS SHOWN.

PHASE DESIGNATION DIAGRAM
IL RTE 37 WITH JORDAN STREET



LEGEND

VEHICULAR MOVEMENT

NUMBER REFERS TO ASSOCIATED PHASE

REFERRING TO STANDARD 857001, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED AS SHOWN.

DETAILS: SIDEWALK REMOVAL AND REPLACEMENT, CONDUIT INSTALLATION DETAILS, PARKING LANE DETAILS, AND PHASE DIAGRAMS

CONTRACT NO. 98991

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
*	**	JEFFERSON	17	17
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

* 724/821

** (14Z)TS-4;(14&1)RS-3

DETAIL OF DETECTOR LOOPS

NOTES

(APPLIES TO 6' x 20' LOOPS ONLY)

1. THE DETECTOR LOOPS SHALL BE TYPE I. EACH DETECTOR LOOP SHALL HAVE 3 TURNS OF LOOP WIRE AND BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 886 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
2. BEGINNING LEAD WIRES SHALL BE CONNECTED TO THE BLACK LEAD AND THE ENDING LEAD WIRES SHALL BE CONNECTED TO THE WHITE LEAD OF THE TWIN TWISTED FEED CABLES AT THE SPLICE POINT.
3. WHERE THE LOOPS ARE INSTALLED PRIOR TO RESURFACING, THE LOOP CORNERS SHALL BE DIAGONALLY CUT.

LOOP LEGEND

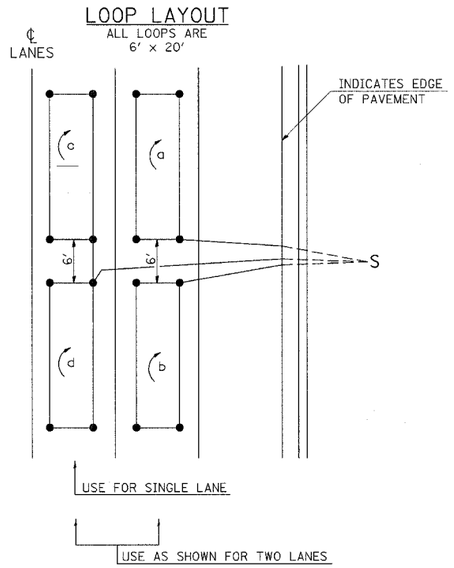
(CLOCKWISE ROTATION FOR LOOP WIRES

S INDICATES SPLICE POINT FOR DETECTOR LOOP LEAD

● INDICATES 2" CORE-DRILL

LOOP LAYOUT

ALL LOOPS ARE 6' x 20'



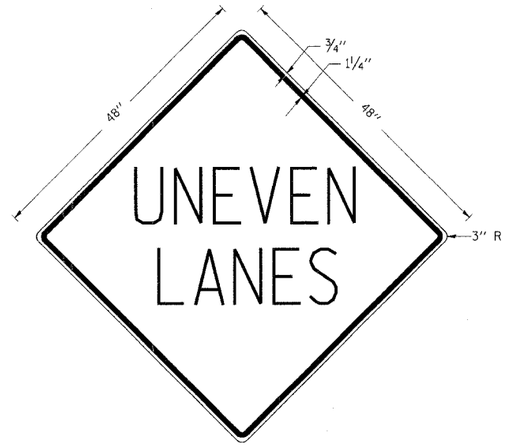
DETAIL 6' x 20' DETECTOR LOOPS

REVISIONS	
REDRAWN	5-13-02
REVISED	10-27-05
REVISED	10-11-06
REVISED	

UNEVEN LANES SIGN

W8-11 (48" x 48")

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.

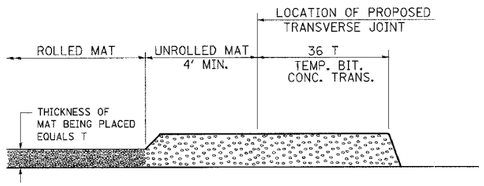
IF AT ANY TIME THE SIGNS ARE IN PLACE BUT NOT APPLICABLE, THEY SHALL BE TURNED FROM THE VIEW OF MOTORISTS OR COVERED AS DIRECTED BY THE ENGINEER.

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

REVISIONS	
DRAWN	2-15-89
REVISED	4-6-93
REDSIGNED	7-23-04
REVISED	

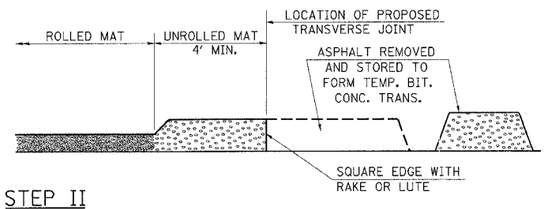
STD. 9-41

TEMPORARY BITUMINOUS CONCRETE TRANSITIONS



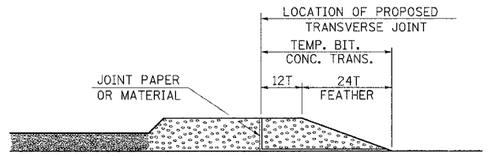
STEP I

1. PLACE BITUMINOUS MAT, LENGTH 36 TIMES THE THICKNESS OF THE MAT BEING PLACED PAST THE PROPOSED TRANSVERSE JOINT LOCATION USING NORMAL OPERATING PROCEDURES.
2. EXTREME CARE SHOULD BE TAKEN TO MAINTAIN ENOUGH MATERIAL IN FRONT OF THE SCREED TO MAINTAIN REQUIRED PAVING DEPTH.



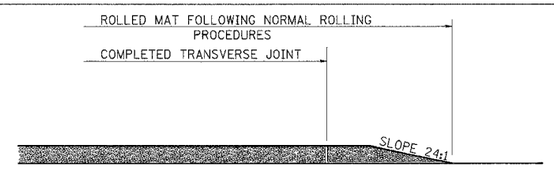
STEP II

1. MOVE THE PAVER OUT OF THE WAY AND REMOVE THE ASPHALT FROM THE AREA OF THE PROPOSED TEMPORARY BITUMINOUS CONCRETE TRANSITION.
2. SQUARE UP THE END OF THE MAT WITH A RAKE OR LUTE.
3. NOTE THAT THE MAT WITHIN 4' OF THE END OF JOINT IS NOT TO BE ROLLED AT THIS TIME.



STEP III

1. JOINT PAPER OR OTHER PRESELECTED JOINT MATERIAL IS THEN PLACED IN THE CLEARED AREA AND THE EXCESS ASPHALT USED TO HAND FORM A TRANSITION TO THE DIMENSIONS SHOWN ABOVE.
2. NOTE THAT IN CONSTRUCTING THE TRANSITION, THE MAT DEPTH IS CONTINUED AS PART OF THE TRANSITION BEFORE FORMING THE FEATHER.



STEP IV

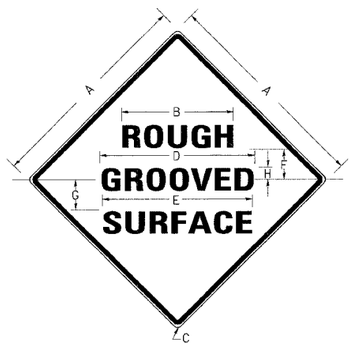
1. COMPLETE TEMPORARY TRANSITION BY ROLLING.
2. TO RESUME PAVING, AT THE JOINT, REMOVE TEMPORARY TRANSITION AND DISPOSE OF THE MATERIAL ACCORDING TO ART. 202.03 OF THE STD. SPECS. (COST INCLUDED IN THE CONTRACT).
3. CONSTRUCTING THE TEMPORARY TRANSITIONS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE BITUMINOUS MATERIAL BEING PLACED.

REVISIONS	
REDRAWN	2-15-89
REVISED	8-16-94
REVISED	
REVISED	

STD. 9-26

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	
REVISED	

STD. 9-39

1/24/2007
c:\proj\es3\e9802307\d9802307pl=52
52.02000 / / IN.
BENNETTMK

DETAILS: DETECTOR LOOPS; TEMP BIT CONC TRANSITIONS; UNEVEN LANES SIGN; ROUGH GROOVED SURFACE SIGN