

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2703	15RS-5	MARION	13	1
		ILLINOIS	CONTRACT NO. 76D74	

INDEX OF SHEETS

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

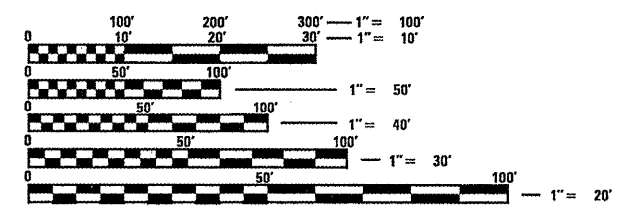
PROPOSED HIGHWAY PLANS

**F.A.S. ROUTE 2703 (KINLOU RD.)
SECTION 15 RS-5
PROJECT: RS-2703(103)
MARION COUNTY
RESURFACING
C-98-055-10**

HIGHWAY STANDARDS

- 701001-02
- 701006-03
- 701011-02
- 701201-03
- 701301-03
- 701306-02
- 701311-03
- 701501-05
- 701901-01
- 780001-02
- 781001-03

SCALES:



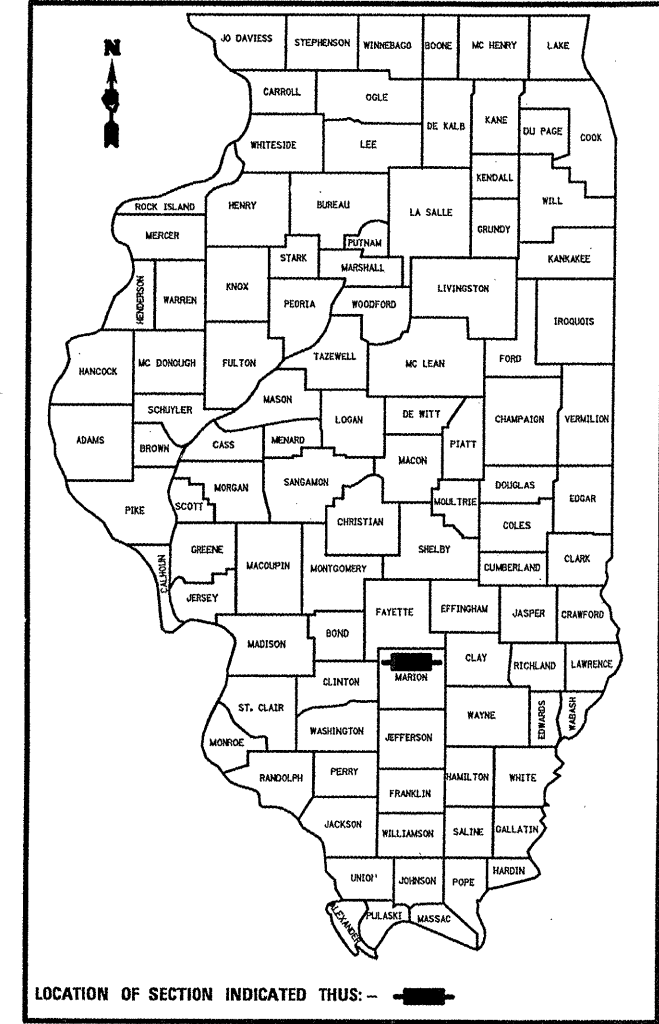
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

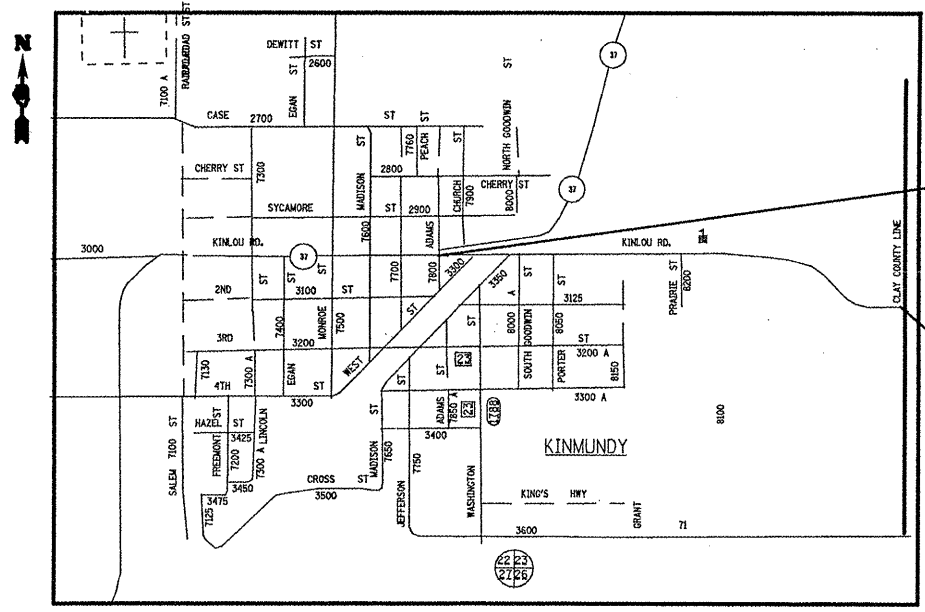
ADT (CONSTRUCTION YEAR) = 1,050
MU = 1.0%
SU = 5.3%

GROSS LENGTH OF SECTION = 43,563 FT. = 8.26 MILE
NET LENGTH OF SECTION = 43,563 FT. = 8.26 MILE

D-98-042-10



LOCATION OF SECTION INDICATED THIS: - [thick black bar]



LOCATION MAP
NOT TO SCALE

PROJECT BEGINS
STA. 00+00
(LAT: 38.773450)
(LONG: -88.846430)

PROJECT ENDS
STA. 435+63
(LAT: 38.767272)
(LONG: -88.696355)

PROJECT ENGINEER: TIM PADGETT (618)346-3155
PROJECT MANAGER: ROB ELLIS (618)249-8066

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED January 28 20 10
Mary C Jamie
DEPUTY DIRECTOR OF HIGHWAYS, REGIONAL ENGINEER

March 19 20 10
Scott E. Stitt, P.E., R.
ACTING ENGINEER OF DESIGN AND ENVIRONMENT

March 19 20 10
Christine M. Reed
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 ALL 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:

UTILITY
AMEREN (GAS & ELECTRIC)
ATMOS ENERGY (GAS)
AT&T ILLINOIS (COMMUNICATIONS)
CLEARVISION CABLE SYSTEMS, INC. (CABLE TV)
FRONTIER COMMUNICATIONS COMPANY (COMMUNICATIONS)
CITY OF KINMUNDY (WATER & SEWER)
NORTHEAST MARION COUNTY WATER COMPANY (WATER)
PAFTEC (COMMUNICATIONS)
TRI-COUNTY ELECTRIC COOPERATIVE, INC (ELECTRIC)

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

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

②

MIXTURE USE	SURFACE	LEVEL BINDER	INCIDENTAL SURF.	PARTIAL DEPTH PATCH
AC/PG	PG 64-22	PG 64-22	PG 64-22	PG 64-22
RAP % MAX	10%	15%	10%	10%
DESIGN AIR VOIDS	4.0% @ Ndes= 70	4.0% @ Ndes= 70	4.0% @ Ndes= 70	4.0% @ Ndes= 70
MIX COMPOSITION				
(GRADATION MIXTURE)		IL - 9.5		
FRICITION AGG.	MIXTURE "C"	MIXTURE "C"	MIXTURE "C"	MIXTURE "C"

PLAN QUANTITIES FOR HOT MIX ASPHALT SURFACE COURSE ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LB/SQ YD/IN.

- ③ THE EXISTING PAVEMENT CROSS SLOPES VARY GREATLY THROUGHOUT THIS PROJECT AND ARE SUBSTANTIALLY FLATTER THAN THE STANDARD PROPOSED CROWN OF 3/16"/FT. DUE TO THE EXISTING PAVEMENT STRUCTURE HAVING A THICKNESS OF ONLY 4 3/4", THE PROPOSED CROSS SLOPES SHALL BE ACHIEVED BY BUILDING UP WITH VARIABLE DEPTH LEVEL BINDER (MM) RATHER THAN BY USING HMA SURFACE REMOVAL TO CORRECT THE CROSS SLOPES AND THUS REMOVING EXCESSIVE PAVEMENT STRUCTURE.
- ④ DUE TO THE EXISTING CROSS SLOPES, IT IS SUGGESTED THAT THE CONTRACTOR START LAYING THE VARIABLE DEPTH LEVEL BINDER (MM) IN THE W.B. LANE WITH 3/4" NOMINAL THICKNESS AT THE E.O.P. WHILE MAINTAINING A 3/16"/FT SLOPE. BEGINNING IN THE W.B. LANE SHOULD MINIMIZE SCRATCHING OUT DURING PAVING OPERATIONS IN THE E.B. LANE.
- ⑤ THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- ⑥ THE THICKNESS OF THE 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.
- ⑦ IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT THE PAVEMENT DRAINS PROPERLY AFTER EACH OPERATION. IN EFFORTS TO PROTECT THE TRAVELING PUBLIC, THE TRAFFIC LANES MUST BE KEPT CLEAR AND MAINTAINED BY THE CONTRACTOR.
- ⑧ SHORT TERM PAVEMENT SHALL BE APPLIED TO BITUMINOUS MATERIALS (PC), LEVELING BINDER AND FINAL SURFACE AS NEEDED. REMOVAL FROM FINAL SURFACE TO BE PAID AS WORK ZONE PAVEMENT MARKING REMOVAL.
- ⑨ ALL TEMPORARY PAVEMENT MARKINGS WILL BE PLACED IN SUCH A MANNER SO AS NOT TO INTERFERE WITH THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- ⑩ THE RESIDENT ENGINEER SHALL CONTACT JEFF ABEL AT 618-346-3283 TO VERIFY THE RAILROAD SIGNING AND PAVEMENT MARKING LOCATIONS. CURRENT SPEED LIMITS MAY REQUIRE ADJUSTMENT TO THE LETTER & SYMBOL LAYOUT.
- ⑪ RAILROAD FLAGGERS WILL BE REQUIRED FOR THIS PROJECT.
- ⑫ NO OVERNIGHT LANE CLOSURES WILL BE ALLOWED.
- ⑬ ROAD CONSTRUCTION AHEAD SIGNS SHALL BE PLACED AT THE BEGINNING AND END OF THE PROJECT PLUS THE INTERSECTING SIDE ROADS, AND WILL BE INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE 48"x48".
- ⑭ FLAGGERS SHALL BE PRESENT DURING ALL CLOSURE HOURS, INCLUDING LUNCH HOUR, AND NO ADDITIONAL COMPENSATION SHALL BE APPLIED.
- ⑮ IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT THE ADJACENT PAVEMENT IS NOT DAMAGED DURING ANY OPERATION.
- ⑯ THE BITUMINOUS MATERIALS (PRIME COAT) THAT SHALL BE PLACED BEFORE THE INCIDENTAL HMA SURFACING IS PLACED AS CALLED OUT IN THE SCHEDULES SHALL BE INCLUDED IN THE COST OF INCIDENTAL HHA SURFACING.

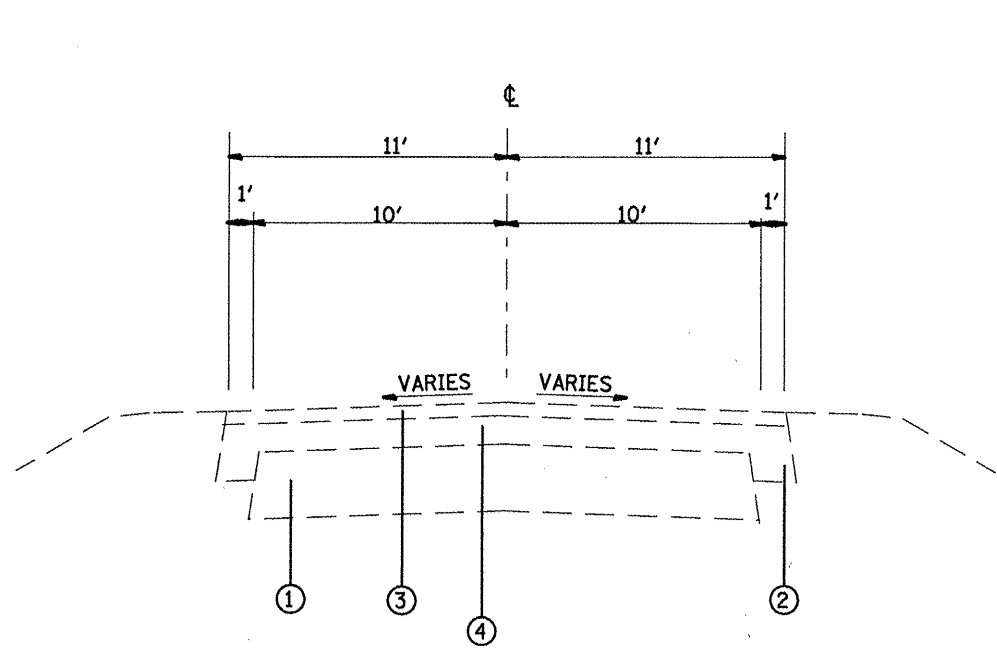
80% FED.
20% STATE

SUMMARY OF QUANTITIES

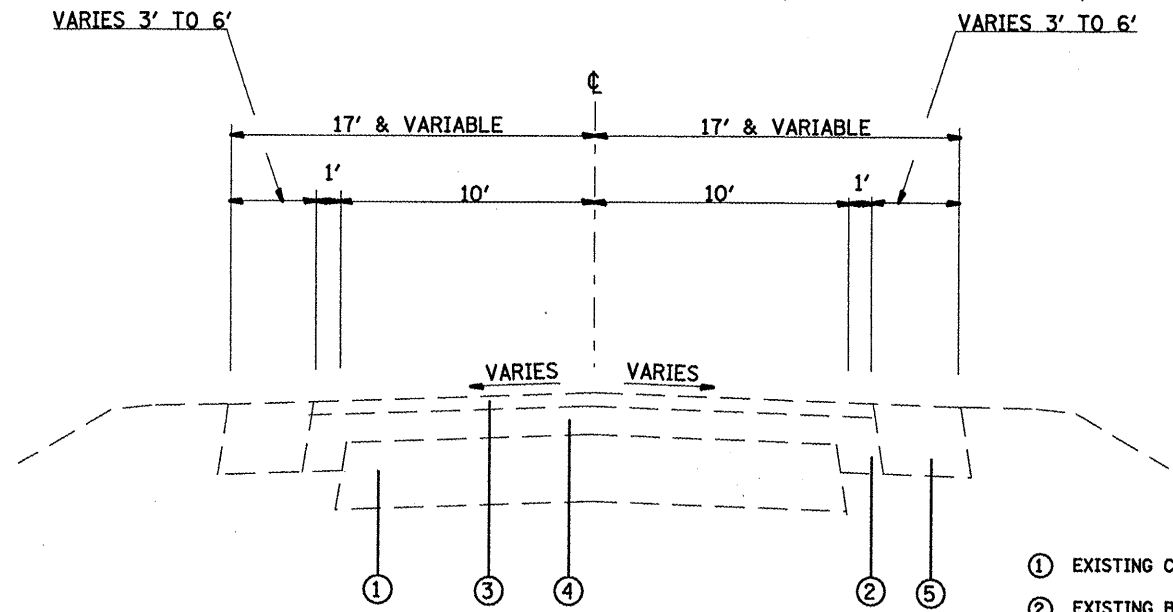
SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE			SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		1000	-----	-----	CODE NO	ITEM	UNIT		-----	-----	-----
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	34	34									
40600300	AGGREGATE (PRIME COAT)	TON	160	160									
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	8030	8030									
40600895	CONSTRUCTING TEST STRIP	EACH	1	1									
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	1495	1495									
40600990	TEMPORARY RAMP	SQ YD	93	93									
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	9018	9018									
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	309	309									
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	1555	1555									
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2	2									
67100100	MOBILIZATION	L SUM	1	1									
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1									
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1									
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	13069	13069									
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	123	123									
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	106921	106921									
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	77	77									
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1453	1453									
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	123	123									
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	106921	106921									
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	77	77									
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	543	543									
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	507	507									
X4421000	PARTIAL DEPTH PATCHING	TON	50	50									
X4422025	PARTIAL DEPTH REMOVAL 2	SQ YD	440	440									
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1									

*Specialty Items

FILE NAME =	USER NAME = washington	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\pwwork\washington\d0174305	4878d74-shr-plan.dgn	DRAWN -	REVISED -		2703	1585-5	MARION	13	3			
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	PLOT DATE = 1/29/2010	DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							



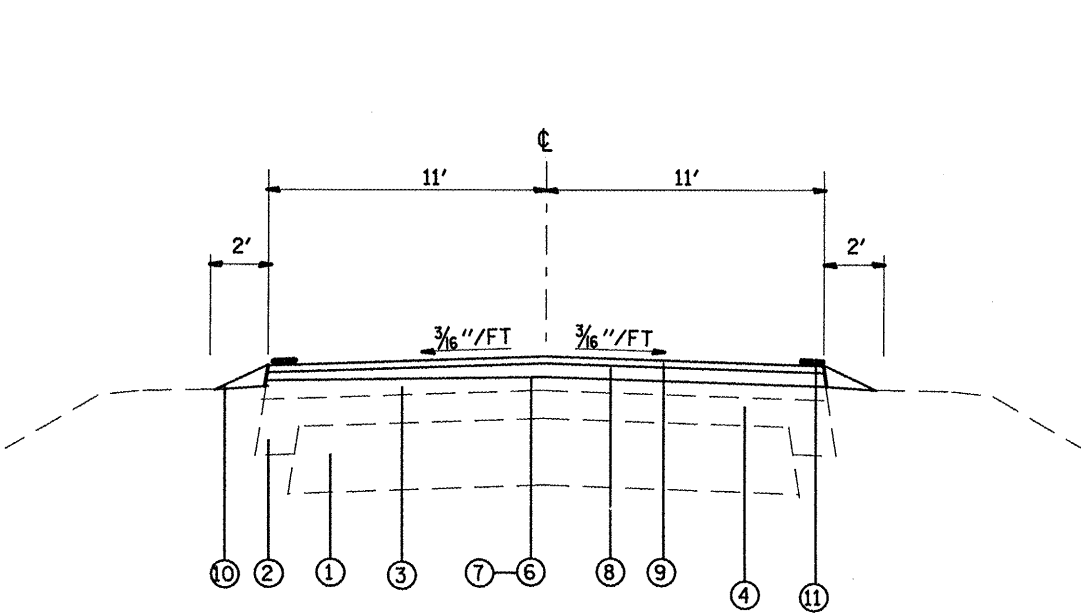
F.A.S. ROUTE 2703
EXISTING TYPICAL
STA. 00+00 TO STA. 380+23
STA. 385+75 TO 435+63



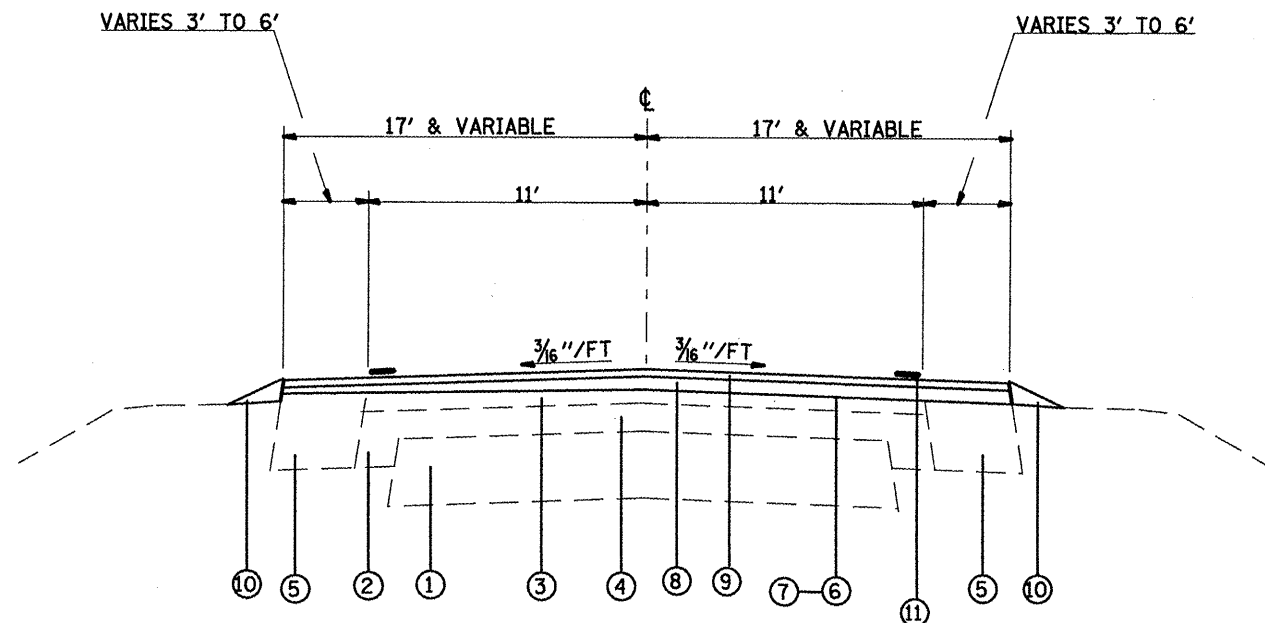
F.A.S. ROUTE 2703
EXISTING TYPICAL
STA. 380+23 TO STA. 382+14
STA. 383+62 TO 385+75
(BRIDGE OMISSION: 382+14 TO 383+62)

LEGEND

- ① EXISTING CRUSHED STONE BASE W/ A-3 TREATMENT
- ② EXISTING BITUMINOUS CONCRETE BASE COURSE WIDENING (6")
- ③ EXISTING 1-1/2" BITUMINOUS CONCRETE SURFACE COURSE, CLASS I
- ④ EXISTING 3-1/4" BITUMINOUS CONCRETE BINDER COURSE
- ⑤ EXISTING PCC SHOULDER WIDENING
- ⑥ PROPOSED BITUMINOUS MATERIAL PRIME COAT
- ⑦ PROPOSED AGGREGATE PRIME COAT
- ⑧ PROPOSED VARIABLE DEPTH LEVEL BINDER
- ⑨ PROPOSED HMA SURFACE COURSE 1-1/2"
- ⑩ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ⑪ YELLOW THERMOPLASTIC PAVEMENT MARKING LINE, 4"



F.A.S. ROUTE 2703
PROPOSED TYPICAL
STA. 00+00 TO STA. 380+23
STA. 385+75 TO 435+63



F.A.S. ROUTE 2703
PROPOSED TYPICAL
STA. 380+23 TO STA. 382+14
STA. 383+62 TO 385+75
(BRIDGE OMISSION: 382+14 TO 383+62)

NOTE: WHILE PLACING LEVELING BINDER & HMA SURFACE COURSE THROUGH SUPER ELEVATED SECTIONS OF PAVEMENT, THE FINAL CROSS SLOPE ON THE HIGH SIDE SHALL MATCH THAT OF THE EXISTING CROSS SLOPE ON THE LOW SIDE OF SUPER. ADDITIONAL TONNAGE HAS BEEN INCLUDED TO PROVIDE A NOMINAL CROSS SLOPE OF 0.048% AT THE FOLLOWING LOCATIONS. STA. 263+00 TO 283+00, & STA. 306+00 TO 325+00

NOTE: LAY NOMINAL 3/4" THICKNESS LEVEL BINDER. AT LT. E.O.P. & VARIABLE @ 3/16"/FT TO CENTERLINE.

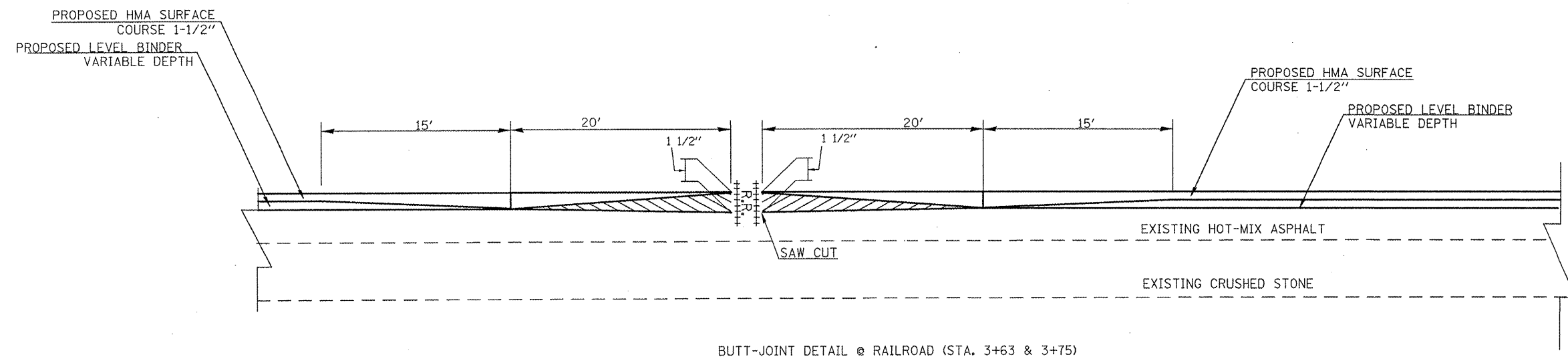
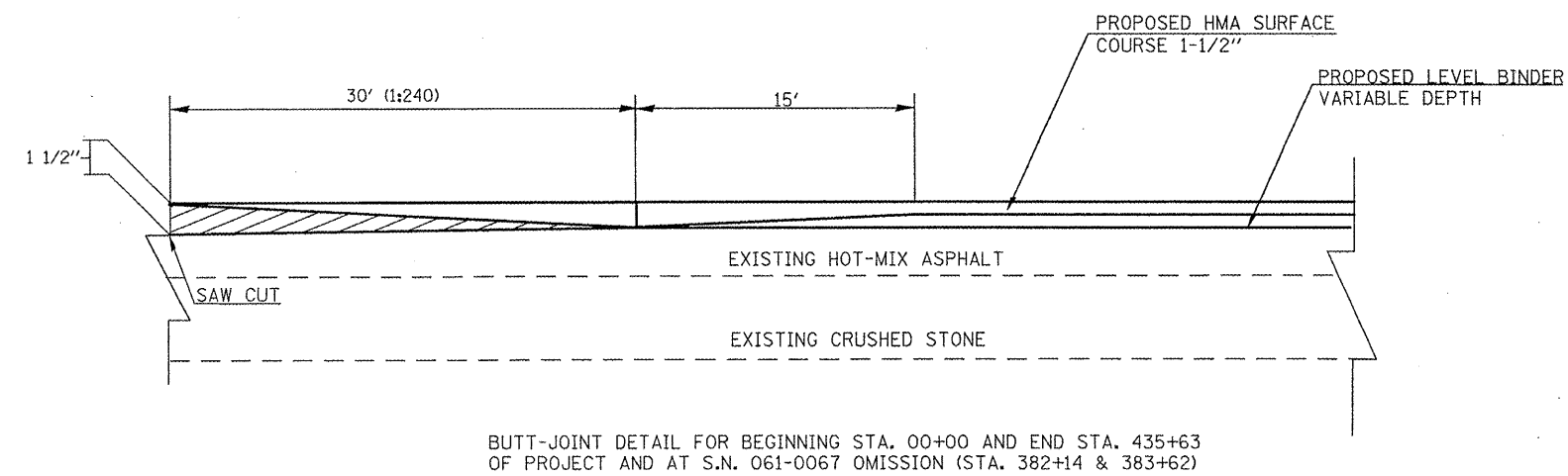
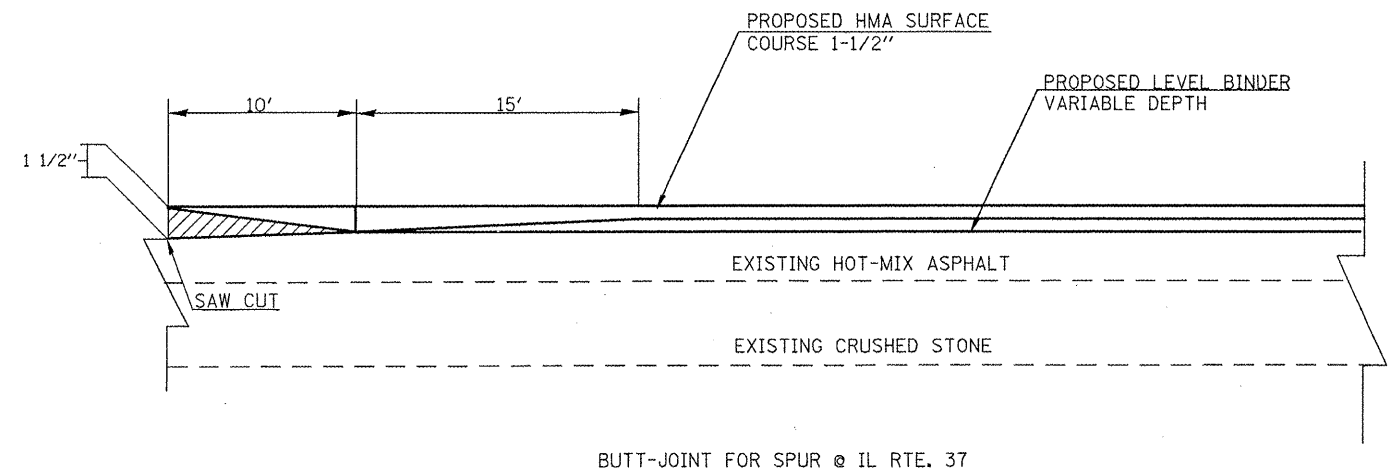
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

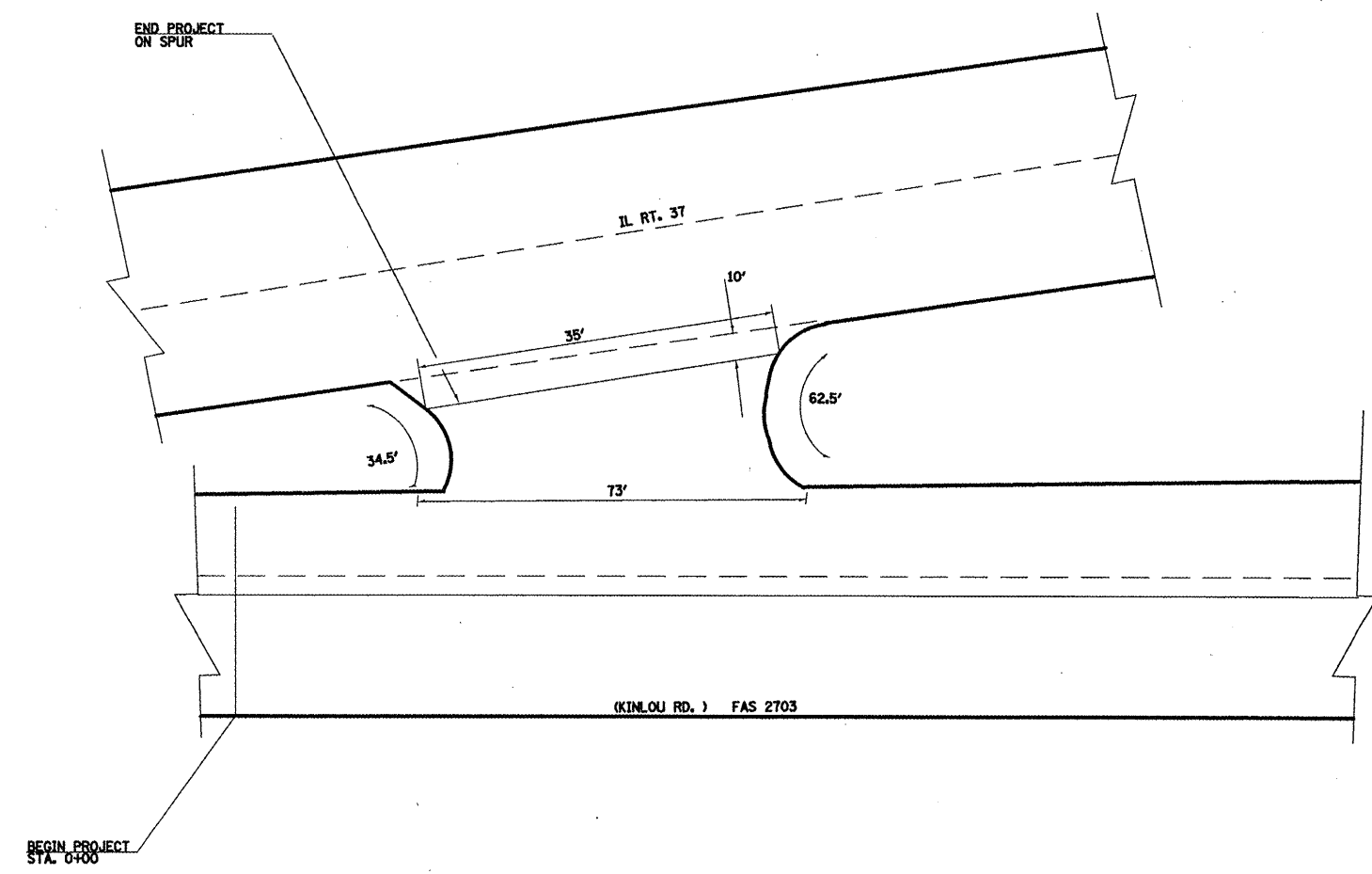
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2703	15RS-5	MARION	13	4
CONTRACT NO. 76074				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



NOTE: ALL SAW CUTS INCLUDED IN THE COST OF HMA SURFACE REMOVAL - BUTT JOINT.

FILE NAME =	USER NAME = washingtonq	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTT JOINT DETAIL	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT DATE = 1/29/2018	DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO. 76074					



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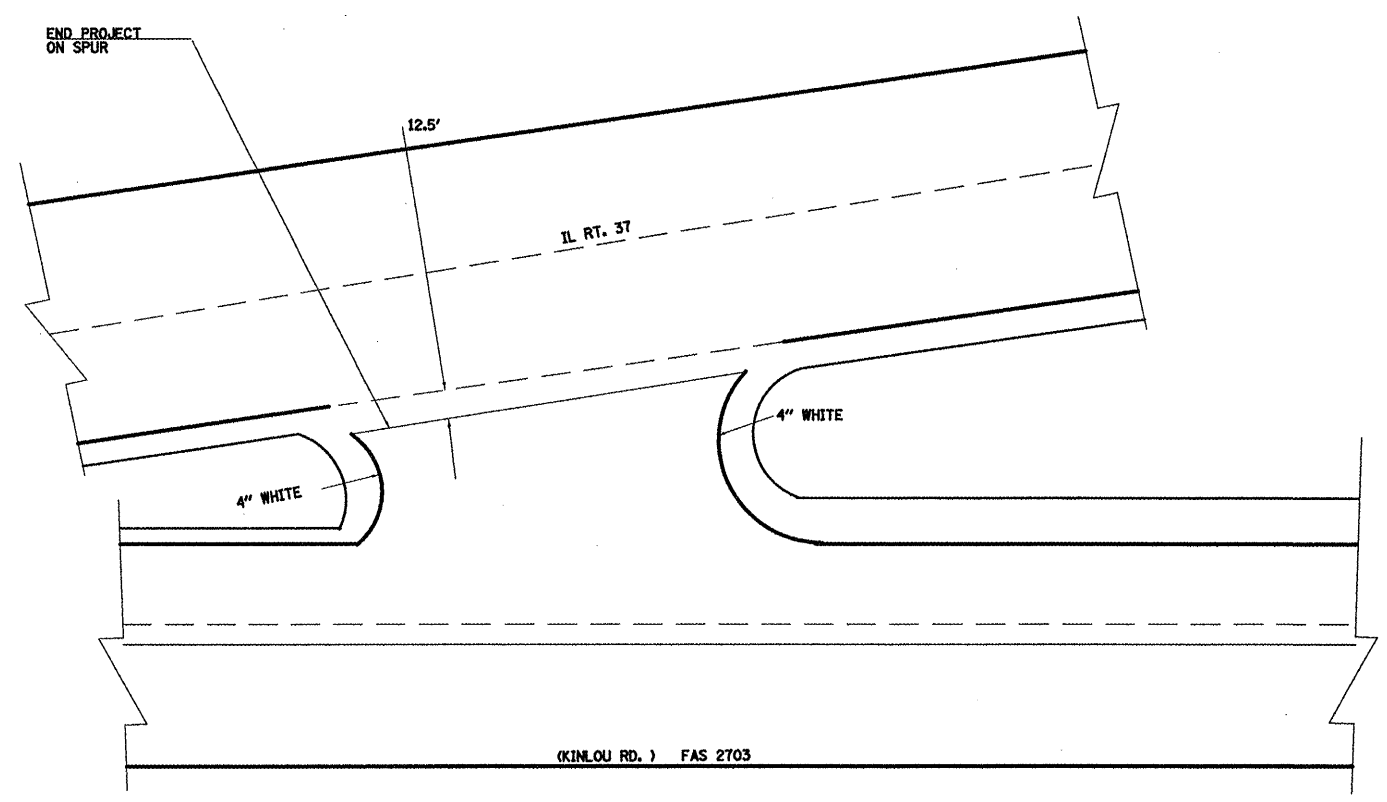
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DATE -	REVISD -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

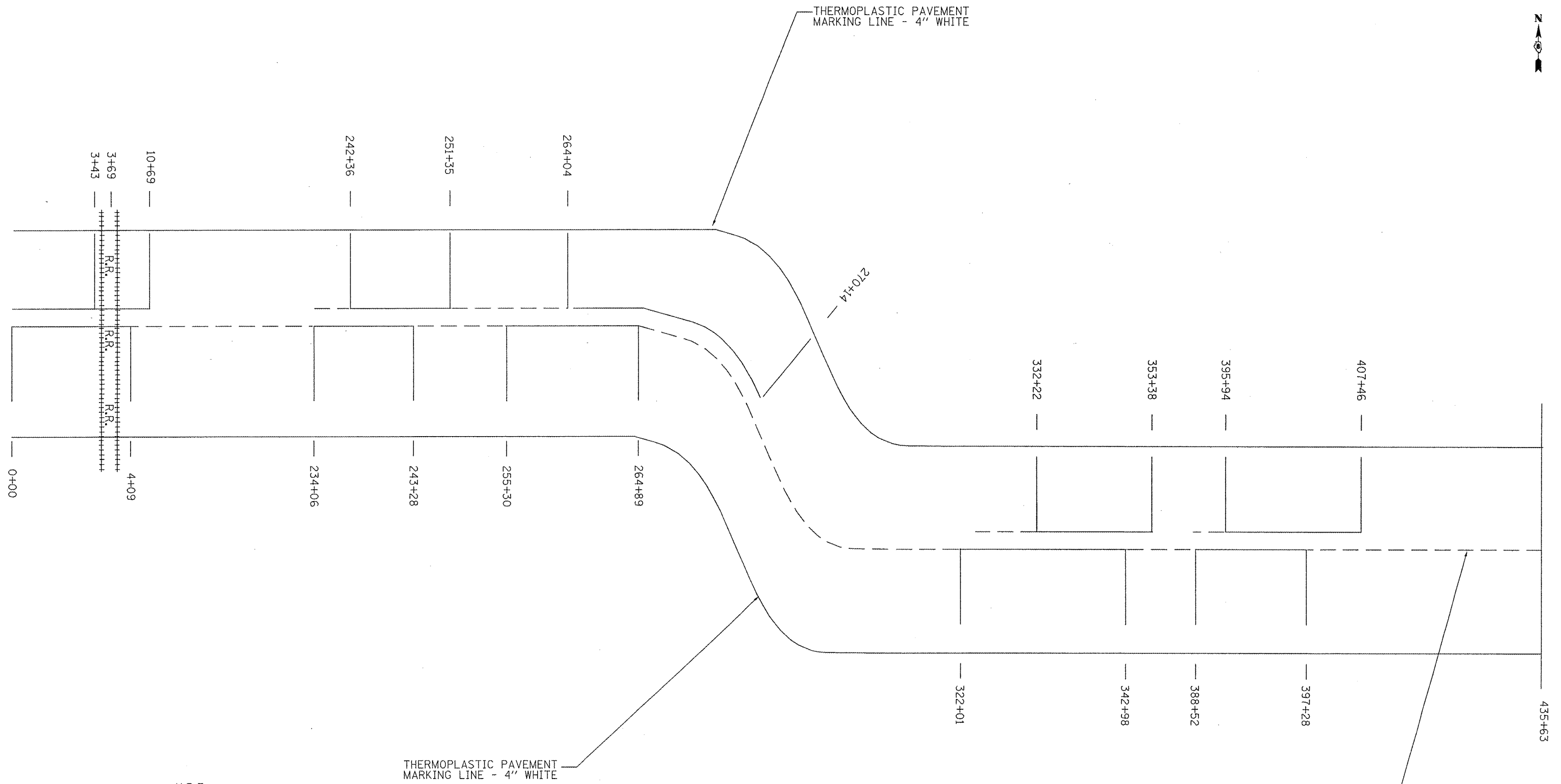
SPUR DETAIL

SCALE: _____ SHEET NO. ____ OF ____ SHEETS STA. 00+00 TO STA. 453+63

F.A.S. RTE. 2703	SECTION 15RS-5	COUNTY MARION	TOTAL SHEETS 13	SHEET NO. 9
CONTRACT NO. 76074				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



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	PLOT DATE = 1/29/2010	DATE - -----	REVISED - ----			FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT							



————— N.P.Z.
 - - - - - ⊕ SKIP

THERMOPLASTIC PAVEMENT MARKING LINE - 4" WHITE

NOTE: SIDE ROAD OMISSIONS ARE NOT SHOWN.

THERMOPLASTIC PAVEMENT MARKING LINE - 4" YELLOW

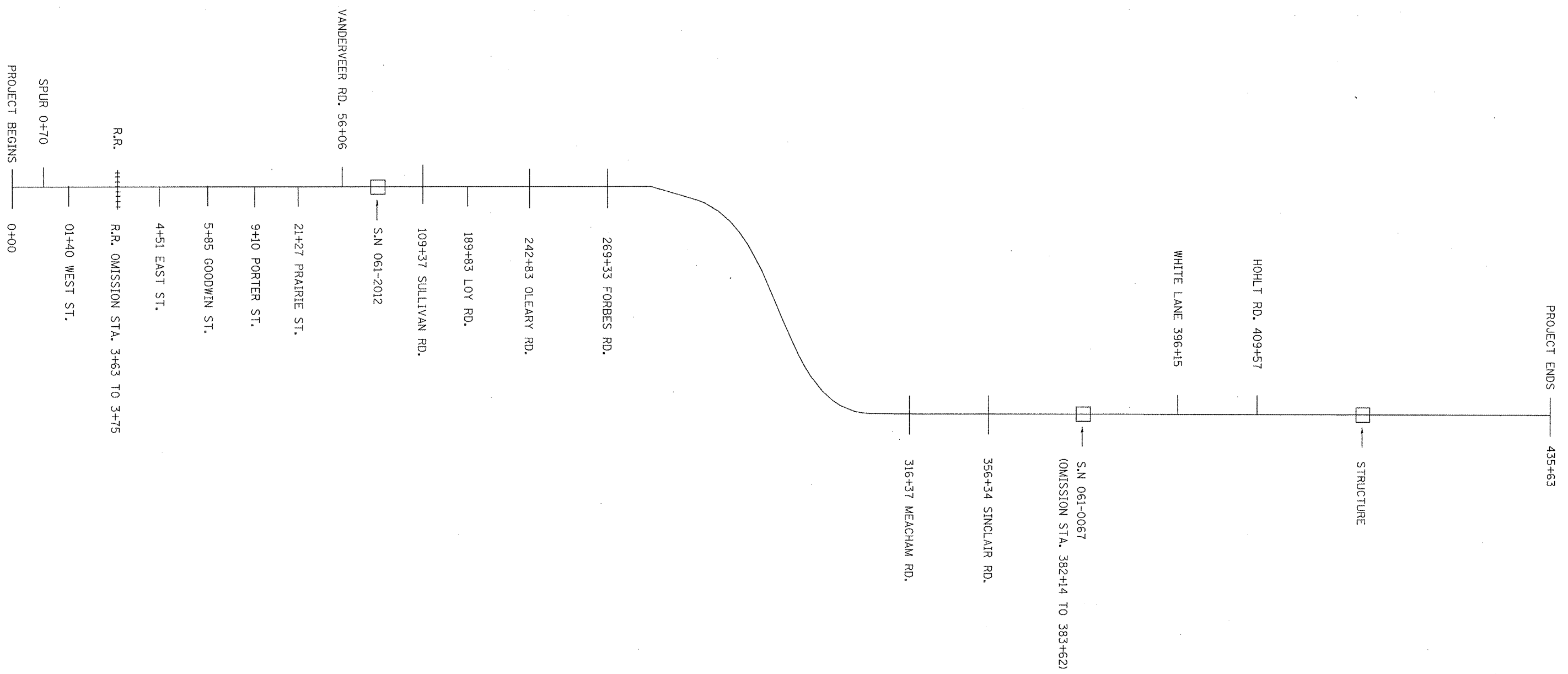
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	PLOT DATE = 1/29/2010	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING DETAIL		
SCALE: _____	SHEET NO. ___ OF ___ SHEETS	STA. 00+00 TO STA. 453+63

F.A.S. RTE. 2703	SECTION 15RS-5	COUNTY MARION	TOTAL SHEETS 13	SHEET NO. 11
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

CONTRACT NO. 76D74



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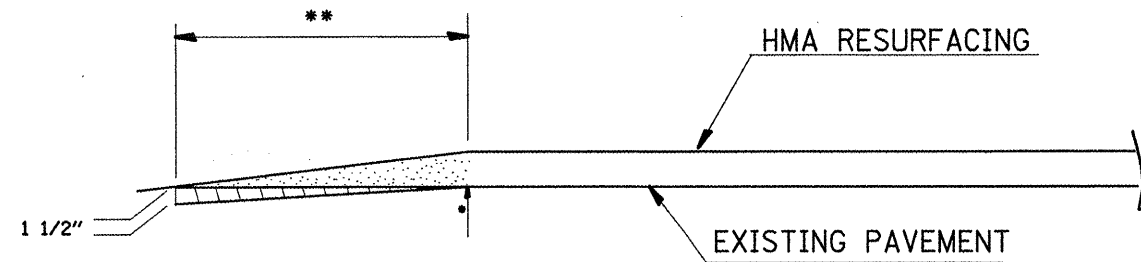
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DATE -	-----	REVISED -	----

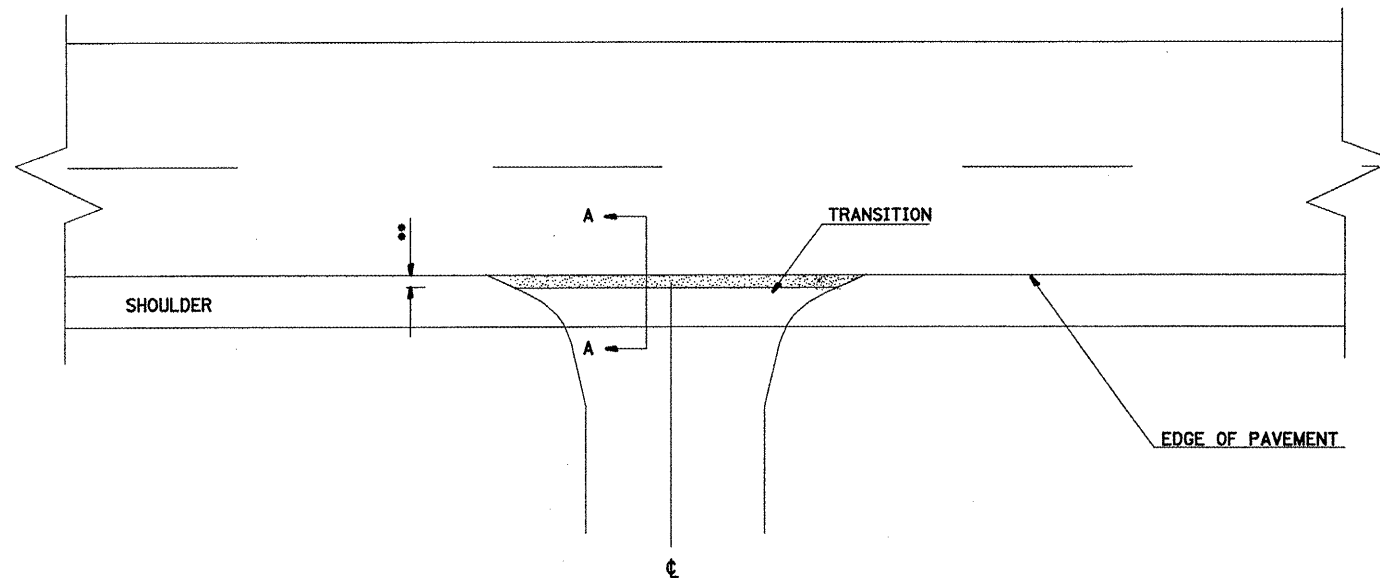
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

LOCATION DETAIL		
SCALE: _____	SHEET NO. ___ OF ___ SHEETS	STA. 00+00 TO STA. 453+63

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2703	15RS-5	MARION	13	12
CONTRACT NO. 76D74				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



TRANSITION DETAIL
SECTION A-A



SIDEROAD DETAIL

NOTE: WHERE THE HMA TRANSITION IS MATCHING INTO AN EXISTING HMA, PCC OR OIL&CHIP SIDE ROAD SURFACE. A MILLED BUTT JOINT SHALL BE CONSTRUCTED WITHIN THE LIMITS OF THE TOTAL TRANSITION LENGTH ON THE LOCAL ROUTE.

•EOP ELEVATION CHANGE	••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'