

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

MAD - 38 - 22.81

MAD - SR 38-22.81/Various
 050385 PID - 16996
 Dist 6 7/13/2005

SEE SHEET 2

S.R. 38: 83° 24' 30" W LONGITUDE 40° 04' 30" N LATITUDE
 U.S. 40: 83° 31' 00" W LONGITUDE 39° 56' 00" N LATITUDE
 S.R. 41: 83° 36' 45" W LONGITUDE 39° 44' 15" N LATITUDE
 S.R. 323: 83° 26' 30" W LONGITUDE 39° 26' 30" N LATITUDE

LOC	COUNTY	ROUTE	SECTIONS	PROJECT TERMINI		NET LENGTH MI	VILLAGE
				BEGIN	END		
1	MAD	38	(22.81)	22.81	30.02	7.21	
2	UNI	38	(0.00)	0.00	0.11	0.11	
3	MAD	40	(0.00 - 1.90)	0.00	2.00	2.00	
4	MAD	41	(1.38 - 1.66)	1.38	1.83	0.45	SOUTH SOLON
5	MAD	323	(0.00 - 15.65)	0.00	18.68	18.68	SOUTH SOLON, MIDWAY

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DESIGN DESIGNATION

MAD-38 CURRENT ADT (2004)	910
DESIGN YEAR ADT(2018)	2,365
UNI-38 CURRENT ADT (2004)	910
DESIGN YEAR ADT(2018)	2,760
MAD-41 CURRENT ADT (2004)	1,470
DESIGN YEAR ADT(2018)	1,983
MAD-323 CURRENT ADT (2004)	820
DESIGN YEAR ADT(2018)	1,192
DESIGN/LEGAL SPEED	55/55

PROJECT DESCRIPTION

RESURFACING OF 7.32 MI OF SR-38 BEGINNING AT SLM 22.81 AND GOING THROUGH THE MADISON/UNION COUNTY LINE TO THE INTERSECTION OF SR-161 2.00 MILES ON US-40, 0.45 MILES OF SR-41 IN THE CORPORATION LIMITS OF SOUTH SOLON, AND 18.68 MILES ON SR-323 GOING FROM THE SR-41 INTERSECTION TO THE SR-56 INTERSECTION.

2002 SPECIFICATIONS

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THESE IMPROVEMENTS WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS PROJECT.

UNDERGROUND UTILITIES

TWO WORKING DAYS
BEFORE YOU DIG
 CALL 1-800-362-2764 (TOLL FREE)
 OHIO UTILITIES PROTECTION SERVICE
 NON-MEMBERS
 MUST BE CALLED DIRECTLY

DESIGN FUNCTIONAL CLASSIFICATION: RURAL MAJOR COLLECTOR

STANDARD DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	
BP-3.1	7/16/04	MT-35.10	4/20/01	SS-832	4/17/04
		MT-95.30	7/16/04	SS-833	2/12/03
RM-1.1	4/18/03	MT-97.10	4/19/02	SS-841	4/19/02
		MT-97.12	4/19/02		
TC-41.20	1/19/01	MT-99.20M	1/30/95	SS-908	4/18/03
TC-52.10	4/20/01	MT-105.10	10/18/02		
TC-52.20	4/20/01	MT-105.11	10/18/02		
TC-65.10	1/21/05				
TC-65.11	1/21/05				
TC-71.10	1/21/05				

PLANS CERTIFIED BY:

NAME David P. Poling DATE 3-8-05
 DISTRICT 6

OHIO DEPT. OF TRANSPORTATION

APPROVED Jack R. Marshall
 District Deputy Director of Transportation
 DATE 3/8/05

APPROVED Gordon Proctor
 Director, Department of Transportation
 DATE 5-2-05



Signed: Gregory L. McGinnis
 Date: March 3, 2005

PLAN PREPARED BY:
 O.D.O.T.
 CENTRAL OFFICE
 PRODUCTION

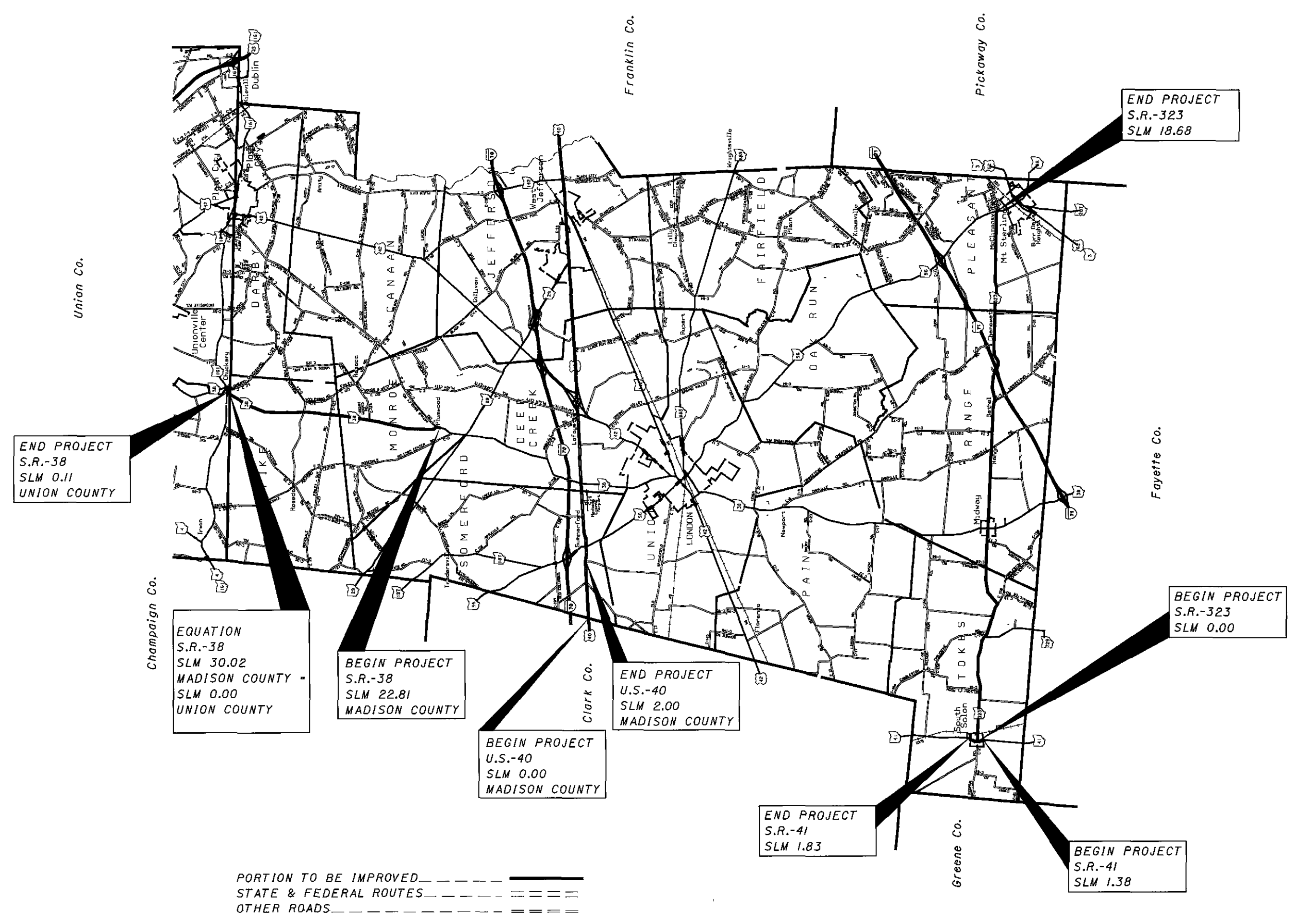
FEDERAL PROJECT NO. **EO36 (500)**
 PID NO. **16996**
 CONSTRUCTION PROJECT NO. **NONE**
 RAILROAD INVOLVEMENT **NONE**
 MAD-38-22.81
 1/34



NO SCALE

LOCATION MAP

MAD-38-22.81



PORTION TO BE IMPROVED ————
 STATE & FEDERAL ROUTES - - - - -
 OTHER ROADS —————

CONSTRUCTION INITIATION:

THE CONTRACTOR SHALL ADVISE THE DISTRICT OFFICE OF COMMUNICATIONS AT 740-363-1251, EXT. 469 OR BY FAX AT 740-369-7437 AND THE DISTRICT TRAFFIC MANAGEMENT ENGINEER AT 740-363-1251, EXT. 323, FOURTEEN (14) DAYS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR WILL IMMEDIATELY INFORM THE DISTRICT OFFICE OF COMMUNICATIONS AND THE DISTRICT TRAFFIC MANAGEMENT ENGINEER OF ANY AND ALL DELAYS AND OR CHANGES REGARDING THE CONSTRUCTION PROJECT. THE PROJECT ENGINEER WILL PROVIDE CLARIFICATION FOR ANY QUESTIONS ABOUT THIS NOTIFICATION REQUIREMENT.

COORDINATION WITH O.D.O.T.'S CENTRAL OHIO TRAFFIC MANAGEMENT PROGRAM (COTMP):

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES ON A WEEKLY BASIS. WHEN DETOURS ARE PLANNED, THIS NOTIFICATION SHALL BE AT THE PRE-CONSTRUCTION MEETING OR 30 DAYS IN ADVANCE ONCE CONSTRUCTION HAS BEGUN. LANE CLOSURES FOR 2 OR MORE WEEKS SHALL BE REPORTED 2 WEEKS IN ADVANCE OF CLOSURE. LANE CLOSURES OF LESS THAN 2 WEEKS DURATION AND MORE THAN 2 DAYS SHALL BE REPORTED AT LEAST 3 WORKING DAYS IN ADVANCE. FOR SHORT TERM LANE OR RAMP CLOSURES (2 DAYS OR LESS) NOTIFICATION SHALL BE MADE AT LEAST 1 WORKING DAY IN ADVANCE. INFORMATION SHALL INCLUDE BUT NOT BE LIMITED TO ALL CONSTRUCTION ACTIVITIES THAT IMPACT TRAFFIC AT PRESENT AND IN THE NEXT 30 DAYS. THE CONTRACTOR SHALL DESIGNATE AN INDIVIDUAL WHO WILL BE RESPONSIBLE FOR PREPARING THIS REPORT AT THE PRE-CONSTRUCTION MEETING. ANY UNFORESEEN IMPACTS TO TRAFFIC SHALL BE REPORTED TO THE PROJECT ENGINEER AS SOON AS POSSIBLE. THE PROJECT ENGINEER SHALL PROVIDE THIS INFORMATION TO COTMP. ALL CONSTRUCTION ACTIVITIES THAT INTERFERE WITH TRAFFIC SHALL BE REPORTED TO COTMP. THIS INFORMATION SHALL BE PROVIDED TO COTMP AT (740) 363-1251 (EXT. 323), OR BY FAX AT (740) 363-6831. THE CONTRACTOR SHALL SUBMIT IN WRITING A SCHEDULE OF OPERATIONS TO THE ENGINEER (SEE 101.18) AND RECEIVE APPROVAL IN WRITING BEFORE WORK IS STARTED ON THIS PROJECT. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

UTILITIES:

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

Mr. Ed Haas
Team Leader (Ohio)
Columbia Gas Transmission
589 North State Road
Medina, OH 44256
330-721-4177

Mr. Bruce Taylor
Real Estate Services
The Dayton Power and Light Company
1900 Dryden Road
Dayton, OH 45439
937--331-4497

Mr. Tom Ziomek
Manager - Legal Mandate
SBC
150 East Gay Street - Room 6C
Columbus, OH 43215
614-223-7162

Mr. Kevin Rich
Engineering Supervisor
Time Warner Communications
1266 Dublin Road, PO Box 2553
Columbus, OH 43216-2553
614-481-5263

Mr. Steve R. Rawlinson
Public Improvement - Project Coordinator
Vectren
20 N. Fourth Street
Evansville, IN 44708-1724
812-491-4765

Mr. William Muether
Verizon
550 Leader Street
Marion, OH 43302
740-383-0527

Pioneer Rural Electric Cooperative
344 West US Route 36, PO Box 604
Piqua, OH 45356
937-773-2523

Ms. Karen Thompson
First Energy (Ohio Edison Company)
420 South York Street
Springfield, OH 45505
937-327-1238

THERE ARE NO UNDERGROUND UTILITIES SHOWN ON THIS PLAN. THE NATURE OF THE WORK REQUIRED BY THIS PROJECT WILL NOT AFFECT ANY KNOWN UNDERGROUND UTILITIES THAT EXIST UNDER OR ADJACENT TO THE WORK AREA.

CONVERSION OF STANDARD CONSTRUCTION DRAWINGS:

THE METRIC STANDARD DRAWINGS REFERENCED IN THIS PLAN SHALL BE CONVERTED TO ENGLISH UNITS USING THE SI (METRIC) TO ENGLISH CONVERSION FACTORS PROVIDED IN SECTION 109.11 OF THE CONSTRUCTION AND MATERIALS SPECIFICATIONS. THE APPENDIX OF ASTM E 380 SHALL BE UTILIZED FOR ANY ADDITIONAL CONVERSION FACTORS REQUIRED. CONVERSIONS SHALL BE APPROPRIATELY PRECISE AND SHALL REFLECT STANDARD INDUSTRY ENGLISH VALUES

PAVING AT RAILROAD CROSSING

THE CROWN SHALL BE WORKED OUT OF THE PROPOSED PAVEMENT ON EACH SIDE OF THE RAILROAD CROSSING, BEGINNING 50 FEET FROM THE NEAREST RAIL, BY RAISING THE EDGES OF THE NEW PAVEMENT TO MEET THE PLATFORM ELEVATION.

PAVEMENT RESTORATION FOR MONUMENT ASSEMBLY INSTALLATIONS

THE FOLLOWING QUANTITY HAS BEEN PROVIDED FOR PAVEMENT RESTORATION FOLLOWING INSTALLATION OF ITEM 604 MONUMENT ASSEMBLIES.

ITEM 301 ASPHALT CONCRETE BASE, PG64-22 3 CU. YDS.

THE ABOVE QUANTITY IS BASED ON A 301 THICKNESS OF 12 INCHES AND A WIDTH OF TWO FEET AROUND THE PERIMETER OF THE MONUMENT ASSEMBLIES.

PROVIDE ANY MATERIALS USED OUTSIDE THE LIMITS STATED ABOVE AT NO ADDITIONAL COST.

ALIGNMENT AND PROFILE

THE PROPOSED WORK ON ALL HIGHWAYS AND DRIVES IS FOR THE REPAIR AND APPLICATION OF ASPHALT CONCRETE. THE ALIGNMENT OF THE EXISTING ROADWAY WILL NOT BE CHANGED, AND THE PROFILE OF THE PROPOSED SURFACE WILL BE SIMILAR TO THAT OF THE EXISTING ROADWAY EXCEPT THAT IT WILL BE RAISED AN AMOUNT EQUAL TO THE THICKNESS OF THE ASPHALT CONCRETE COURSE AS SPECIFIED IN THIS PLAN.

CONTRACTORS EQUIPMENT - OPERATION AND STORAGE:

THE CONTRACTOR'S EQUIPMENT SHALL BE OPERATED IN THE DIRECTION OF TRAFFIC WHERE PRACTICAL. EQUIPMENT SHALL HAVE AT LEAST ONE AMBER FLASHING LIGHT. WHEN PARKED ALONG THE HIGHWAY, THE EQUIPMENT SHALL BE LOCATED EITHER A MINIMUM OF THIRTY FEET FROM THE EDGE OF PAVEMENT. ALL OTHER EQUIPMENT, INCLUDING PRIVATE VEHICLES, SHALL BE STORED AT AN APPROVED CONTRACTOR'S STORAGE AREA.

CONTINGENCY QUANTITIES:

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

CALCULATED
GLM
CHECKED
MDC

GENERAL NOTES

MAD-38-22.81

3
34

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PAVING LIMITS

THE CONTRACTOR SHALL NOT PLACE TACK COAT OR ASPHALT MATERIALS ON ANY EXPOSED CONCRETE BRIDGE DECK EXCEPT AS NOTED IN THIS PLAN, OR ON STATE ROUTE 38. BUTT JOINTS (PER BP-3.1) SHALL BE PLACED ON BOTH SIDES OF STATE ROUTE 38 AT THE STATE ROUTE 323 INTERSECTION LOCATED WITHIN THE VILLAGE OF MIDWAY.

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR, AS PER PLAN:

REPAIRS SHALL CONSIST OF REMOVAL OF PAVEMENT TO DEPTH OF 4 INCHES AND PLACEMENT OF 4 INCHES OF ITEM 301-ASPHALT CONCRETE BASE, PG64-22. THE WORK SHALL BE PERFORMED PRIOR TO RESURFACING.

THE WIDTH FOR S.R. 38 IS 4'
THE WIDTH FOR S.R. 323 IS 3'

THE FOLLOWING QUANTITY FOR WORK WITHIN THE SOUTH SOLON CORPORATION LIMITS HAS BEEN PROVIDED AND HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR, AS PER PLAN: - 22 CU. YD.

ITEM 253 - PAVEMENT REPAIR

THIS WORK SHALL CONSIST OF SAW CUTTING AND REMOVAL OF EXISTING PAVEMENT AND ALL UNSUITABLE MATERIALS TO A DEPTH OF APPROXIMATELY 10 INCHES. THE PATCH REPLACEMENT MATERIAL SHALL CONSIST OF 10 INCHES OF ITEM 301 PLACED IN TWO EQUAL LIFTS. ITEM 448 OVERLAY AND ITEM 407 TACK COAT IS PLACED ON THE TOP SURFACE, AND IS PAID FOR SEPARATELY. THESE MATERIALS ARE TO BE PROPERLY COMPACTED AS DIRECTED BY THE ENGINEER.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER.

ITEM 253 - PAVEMENT REPAIR 20 CU. YD.

ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE:

THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR ANY AND ALL DAMAGE THAT MAY RESULT FROM THE PLANING OPERATION, INCLUDING CASTINGS AND BRIDGE DECK WATERPROOFING. THE DEPTH OF PLANING CLOSE TO THE CASTINGS SHALL BE AS DIRECTED, TO ACHIEVE A SMOOTH RIDING FINISHED PAVEMENT. THE PROPOSED PAVEMENT PLANING SHALL FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT. GREAT CARE SHALL BE TAKEN TO MAINTAIN THE EXISTING PAVEMENT CROSS SLOPE (CROWN) DURING THE PLANING OPERATIONS. NO PLANED PAVEMENT SHALL BE LEFT EXPOSED TO TRAFFIC FOR MORE THAN 5 CONSECUTIVE DAYS PRIOR TO THE PLACEMENT OF ITEM 448 - ASPHALT CONCRETE SURFACE COURSE TYPE 1, PG64-22. FAILURE TO COMPLY SHALL SUBJECT THE CONTRACTOR TO LIQUIDATED DAMAGES AS PER SECTION 108.07 OF CMS

ITEM 407 - TACK COAT:

THE TACK COAT OPERATION SHALL BE AS DETERMINED AT A PRE-CONSTRUCTION CONFERENCE AS PER 407.05 AND APPLICATION RATES SHALL NOT EXCEED 0.075 GALLON PER SQ. YARD. A COVER AGGREGATE SHALL BE USED IF HEAVY TRACKING OF THE TACK COAT ON TO THE EXISTING PAVEMENT SHOULD OCCUR DURING THE PAVING OPERATIONS. THE COST OF THE COVER AGGREGATE SHALL BE INCLUDED IN THE COST OF THIS ITEM.

ITEM 604 - MONUMENT ASSEMBLY:

THIS WORK SHALL CONSIST OF FURNISHING AND PLACING CENTERLINE MONUMENTS AT THE FOLLOWING INTERSECTIONS. THE TOP ELEVATION OF THE MONUMENT BOXES SHALL BE 1/2 INCH LOWER THAN THE PROPOSED PAVEMENT SURFACE ELEVATION.

- 1.) S.R. 323 AND TWP. RD. 67 (HICKS RD.)
- 2.) S.R. 323 AND CO. RD. 9 (YANKEETOWN-CHENOWELL RD.-NORTH)
- 3.) S.R. 323 AND CO. RD. 9 (YANKEETOWN-CHENOWELL RD.-SOUTH)
- 4.) S.R. 323 AND CO. RD. 8 (DANVILLE RD.-SOUTH)
- 5.) S.R. 323 AND CO. RD. 8 (DANVILLE RD.-NORTH)
- 6.) S.R. 323 AND CO. RD. 77 (PRAIRIE RD.)
- 7.) S.R. 323 AND CO. RD. 81 (CURRY RD.)
- 8.) S.R. 323 AND CO. RD. 16 (SELSOR-MOON RD.)

A REGISTERED SURVEYOR FROM DISTRICT 6 SURVEY DEPARTMENT SHALL BE RESPONSIBLE FOR REFERENCING AND VERIFYING THE LOCATIONS OF THE CENTERLINE MONUMENTS. THE CONTRACTOR SHALL NOTIFY THE SURVEY DEPARTMENT (614-363-1251 EXT. 250) 48 HOURS PRIOR TO START OF MONUMENT WORK. PAYMENT FOR THIS ITEM SHALL INCLUDE ALL NECESSARY LABOR, MISCELLANEOUS HARDWARE, AND EQUIPMENT REQUIRED FOR PLACEMENT. PAYMENT WILL BE AT CONTRACT BID PRICE PER EACH. THE FOLLOWING QUANTITY HAS BEEN PROVIDED AND THE TOTAL HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 604 - MONUMENT ASSEMBLY: - 8 EACH

ITEM 604 - MONUMENT BOX ADJUSTED TO GRADE:

THIS WORK SHALL CONSIST OF ADJUSTING ALL EXISTING CENTERLINE MONUMENTS AT THE FOLLOWING INTERSECTIONS. THE TOP ELEVATION OF THE MONUMENT BOXES SHALL BE 1/2 INCH LOWER THAN THE PROPOSED PAVEMENT SURFACE ELEVATION.

- 1.) S.R. 38 AND CO. RD. 126 (JOSIAH-MORRIS RD.)
- 2.) S.R. 38 AND CO. RD. 123 (FINLEY GUY RD.)
- 3.) S.R. 38 AND TWP. RD. 24 (ROSDALE-PLAIN CITY RD.)
- 4.) S.R. 323 AND BRIDGE OVER I-71, SLM 13.23. 6 BOXES.
- 5.) S.R. 323 AND TWP. RD. 79 (BETHEL RD.)
- 6.) S.R. 323 AND S.R. 56

THE METHOD OF ADJUSTING MONUMENT BOXES TO GRADE MUST BE APPROVED BY THE ENGINEER PRIOR TO PERFORMING WORK. PAYMENT FOR THIS ITEM SHALL INCLUDE ALL NECESSARY LABOR, MISCELLANEOUS HARDWARE, AND EQUIPMENT REQUIRED FOR ADJUSTMENT. PAYMENT WILL BE AT CONTRACT BID PRICE PER EACH. THE FOLLOWING QUANTITY HAS BEEN PROVIDED AND THE TOTAL HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 604-MONUMENT BOX ADJUSTED TO GRADE - 11 EACH

ITEM 614 - WORK ZONE MARKING SIGN:

THESE SIGNS SHALL BE PLACED TO REFLECT THE EXISTING PASSING AND NO PASSING ZONES AS DETERMINED FROM THE EXISTING CENTERLINE MARKINGS WITHIN THE PROJECT LIMITS. THESE SIGNS ARE NOT TO BE REMOVED UNTIL PERMANANT MARKINGS ARE PLACED.

- OW-167-36 "NO EDGE LINES" - 8 EACH
- R-33-30 "DO NOT PASS" -20 EACH
- R-34-30 "PASS WITH CARE" -14 EACH

THE FOLLOWING QUANTITY HAS BEEN PROVIDED AND THE TOTAL HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614 - WORK ZONE MARKING SIGN - 42 EACH

ITEM 614 WORK ZONE CENTER LINE, CLASS II

- MAD-38-22.81-30.02
- SLM 22.81 TO 30.02 - 7.21 MI (SURFACE COURSE)
- UNI-38-0.00-0.11
- SLM 0.00 TO 0.11 - 0.11 MI (SURFACE COURSE)
- MAD-323-0.00-18.68
- SLM 0.00 TO 18.68 - 18.68 MI (SURFACE COURSE)
- MAD-41-1.38-1.83
- SLM 1.38 TO 1.83 - 0.45 MI (SURFACE COURSE)

THE FOLLOWING QUANTITY HAS BEEN PROVIDED AND THE TOTAL HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614 - WORK ZONE CENTER LINE, CLASS II - 26.45

GENERAL NOTES

MAD-38-22.81

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ITEM 614 - MAINTAINING TRAFFIC:

ONE LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES AS PER MT-97.12 BY USE OF THE EXISTING AND COMPLETED PAVEMENT. WORK ZONES SHALL BE LIMITED IN LENGTH TO THE AMOUNT OF WORK THAT CAN BE PERFORMED THAT DAY.

ON U.S. 40 TRAFFIC SHALL BE MAINTAINED AS PER MT-95.30

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

- MEMORIAL DAY
- INDEPENDENCE DAY
- LABOR DAY
- THANKSGIVING DAY

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THE PERIOD.

DAY OF THE WEEK	TIME ALL LANES MUST BE OPEN TRAFFIC
SUNDAY	12 NOON FRIDAY THRU 6 A.M. TUESDAY
MONDAY	12 NOON FRIDAY THRU 6 A.M. TUESDAY
TUESDAY	12 NOON MONDAY THRU 6 A.M. WEDNESDAY
WEDNESDAY	12 NOON TUESDAY THRU 6 A.M. THURSDAY
THURSDAY	12 NOON WEDNESDAY THRU 6 A.M. MONDAY
FRIDAY	12 NOON THURSDAY THRU 6 A.M. MONDAY
SATURDAY	12 NOON FRIDAY THRU 6 A.M. MONDAY

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED LIQUIDATED DAMAGES IN ACCORDANCE WITH 108.07. LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN, WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614 - MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

THE CONTRACTOR SHALL SUBMIT FOR APPROVAL, TO THE DISTRICT SIX MAINTENANCE OF TRAFFIC COORDINATOR, THE CONTRACTOR'S MAINTENANCE OF TRAFFIC PLAN WITH CONSTRUCTION PHASING DESCRIPTIONS, BEFORE BEGINNING WORK.

ITEM 617 - WATER:

THIS ITEM SHALL BE USED AS DIRECTED BY THE ENGINEER. THIS IS AN ESTIMATED QUANTITY OF 17 M/GAL. THE FOLLOWING QUANTITY HAS BEEN PROVIDED AND THE TOTAL HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 617 - WATER: - 17 M/GAL

ITEM 623 - CONSTRUCTION LAYOUT STAKES, AS PER PLAN:

THIS ITEM SHALL CONSIST OF STATIONING USING 3 FT LATH STAKES. THE STAKES SHALL BE SPACED AT 100 FT INTERVALS AND SHALL EXTEND THROUGHOUT THE LENGTH OF THE PROJECT. PLACEMENT OF THE STAKES SHALL BE AS DIRECTED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY DAMAGED OR MISSING STAKES.

CONSTRUCTION LAYOUT STAKES, AS PER PLAN WILL BE PAID FOR AT THE CONTRACT LUMP SUM BID, WHICH PRICE SHALL BE FULL COMPENSATION FOR ALL SERVICES, MATERIALS, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS, INCLUDING THE REMOVAL, NECESSARY TO COMPLETE THIS ITEM.

ITEM 642 - PAVEMENT MARKING, TYPE 1:

THE LOCATIONS, SIZES, AND SHAPES OF PROPOSED PAVEMENT MARKINGS SHALL BE THE SAME AS EXISTING PAVEMENT MARKINGS.

ESTIMATED QUANTITIES AND APPROXIMATE LOCATIONS HAVE BEEN PROVIDED FOR THESE WORK ITEMS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION, SIZE, AND SHAPE OF THE EXISTING PAVEMENT MARKINGS BEFORE THE PAVEMENT PLANING AND RESURFACING OBLITERATES THE EXISTING PAVEMENT MARKINGS UNLESS THE PROPOSED PAVEMENT MARKINGS ARE DETAILED DIFFERENTLY FROM THE EXISTING PAVEMENT MARKINGS.

ENVIRONMENTAL COMMITMENTS:

SURFACE WATER PROTECTION

NO TOXIC OR HAZARDOUS MATERIALS SUCH AS SEALANTS, PAINT, SOLVENTS, CLEANING AGENTS, EARTHEN MATERIALS, WASTE-WATER, FUELS OR DEBRIS OF ANY KIND SHALL BE DISCHARGED TO ANY STREAMS, DRAINAGE COURSES, OR BODIES OF WATER. ALL ASPHALT OR CONCRETE GRINDINGS, EXCESS ASPHALTIC OR CONCRETE MATERIALS OR ANY OTHER DEBRIS GENERATED DURING RESURFACING OR OTHER SIMILAR ACTIVITIES SHALL BE NOT BE DISPOSED OF WITHIN THE FLOODPLAIN BELOW THE 100-YEAR FLOOD ELEVATION.

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT LIQUIDS USED TO REPAIR, CLEAN, SEAL, OR TREAT ANY BRIDGE STRUCTURE (I.E. PAINT, SEALER, SOLVENT) FROM ENTERING STREAMS, WETLANDS OR OTHER WATERS OF THE UNITED STATES AND TAKE THE APPROPRIATE ACTIONS IN THE EVENT OF A RELEASE. ANY SUCH SPILL OR EVENT SHALL BE REPORTED IMMEDIATELY TO THE PROJECT ENGINEER, THE LOCAL FIRE DEPARTMENT, AND THE LOCAL GOVERNMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEAN UP AND REMEDIATION OF ANY SUCH SPILL.

GROUNDWATER PROTECTION

THERE ARE PUBLIC WATER SYSTEMS IN THE VICINITY OF AND WITHIN THE PROJECT THAT ARE SUPPLIED BY GROUNDWATER. IN ORDER TO MINIMIZE THE POTENTIAL TO CONTAMINATE THE PUBLIC DRINKING WATER SUPPLY, PROJECT RELATED REFUELING AND MAINTENANCE ACTIVITIES SHALL BE PERFORMED IN AN ENVIRONMENTALLY RESPONSIBLE MANNER. THE CONTRACTOR SHALL IMMEDIATELY TAKE STEPS TO MITIGATE ANY EVENT, SUCH AS A SPILL OF FUELS, OILS, OR CHEMICALS, THAT COULD THREATEN TO CONTAMINATE THE DRINKING WATER SUPPLY. ANY SUCH SPILL OR EVENT SHALL BE REPORTED IMMEDIATELY TO THE PROJECT ENGINEER, THE LOCAL FIRE DEPARTMENT, AND THE LOCAL GOVERNMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEAN UP AND REMEDIATION OF ANY SUCH SPILL.

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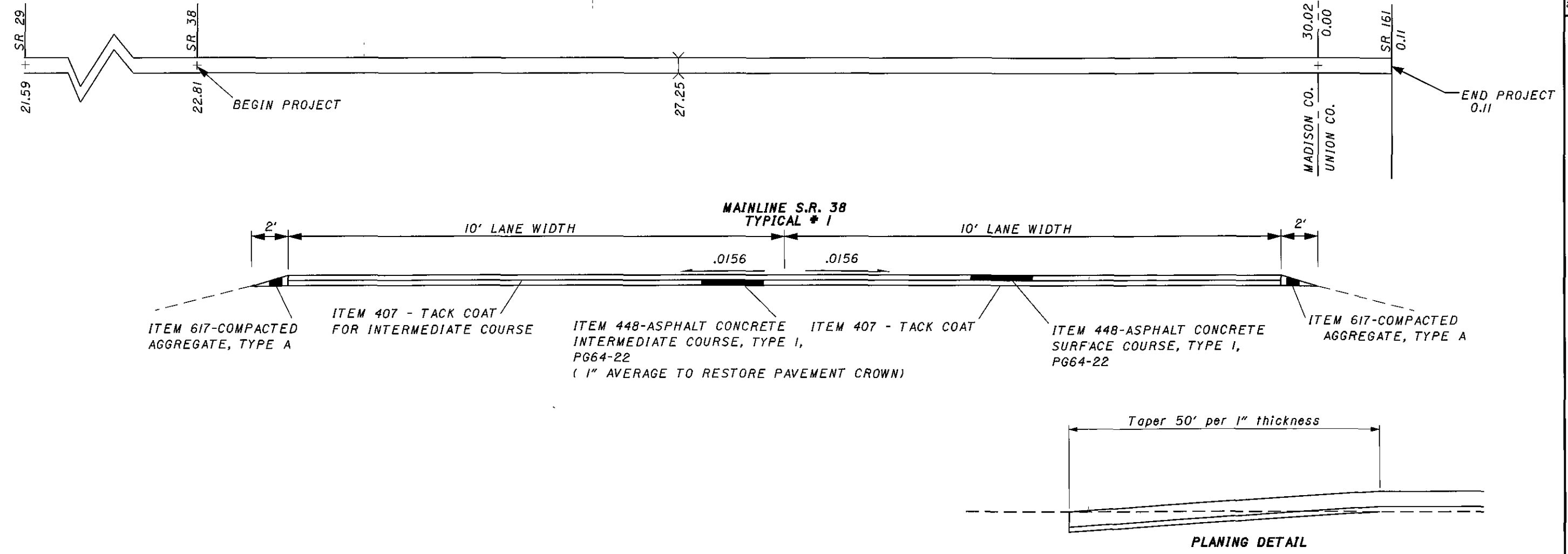
GENERAL NOTES

MAD-38-22.81

CALCULATED
GLM
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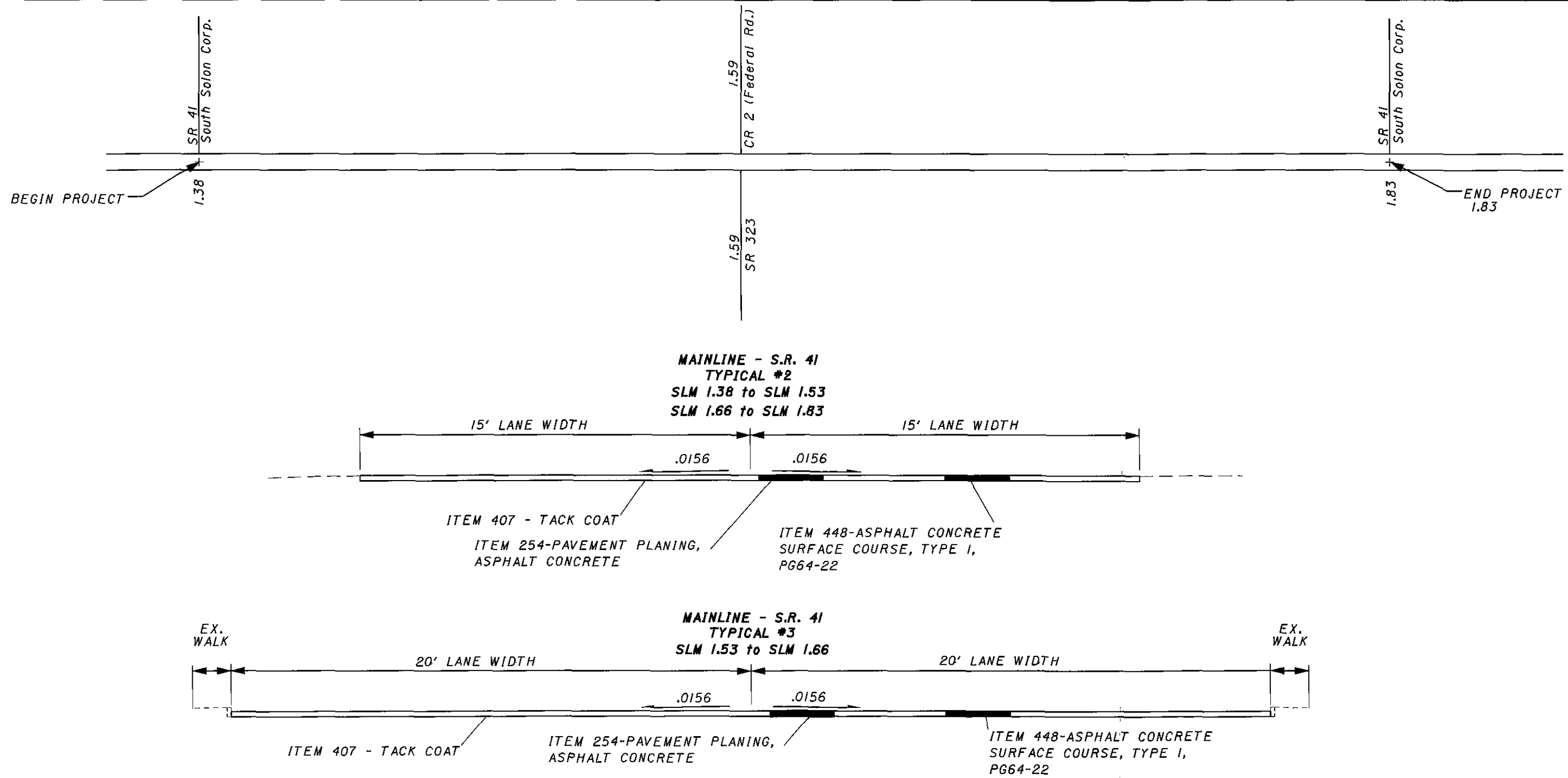
S.R. 38 PAVEMENT SUBSUMMARY AND DETAILS

MAD-38-22.81



LOCATION						DESIGN		SURFACE PAVEMENT								REMARKS			
COUNTY	ROUTE	LOG BEG	LOG END	LENGTH		TYPICAL	AVERAGE PAVEMENT WIDTHS	AREA	254		407		448		448		617		
		MI	MI	MI	FT				AVG DEP	PAVEMENT PLANING, ASPHALT CONCRETE	TACK COAT FOR INTERM COURSE	TACK COAT	AC INTERM COURSE	AC SURF COURSE	COMPACT AGG	AVG THK	AVG THK	AVG THK	
							FT	SY	IN	SY	GAL	GAL	IN	CY	IN	CY	IN	CY	
MAD	38	22.81	30.02	7.21	38069	1	20	84598	1.50	222	4230	6345	1.00	2350	1.25	2937	2.00	940	PROVIDE BUTT JOINT BP-3.1
UNI	38	0.00	0.11	0.11	581	1	20	1291	1.50	222	65	97	1.00	36	1.25	45	2.00	14	
TOTALS CARRIED TO GENERAL SUMMARY										444	4295	6442		2386	2982	954			

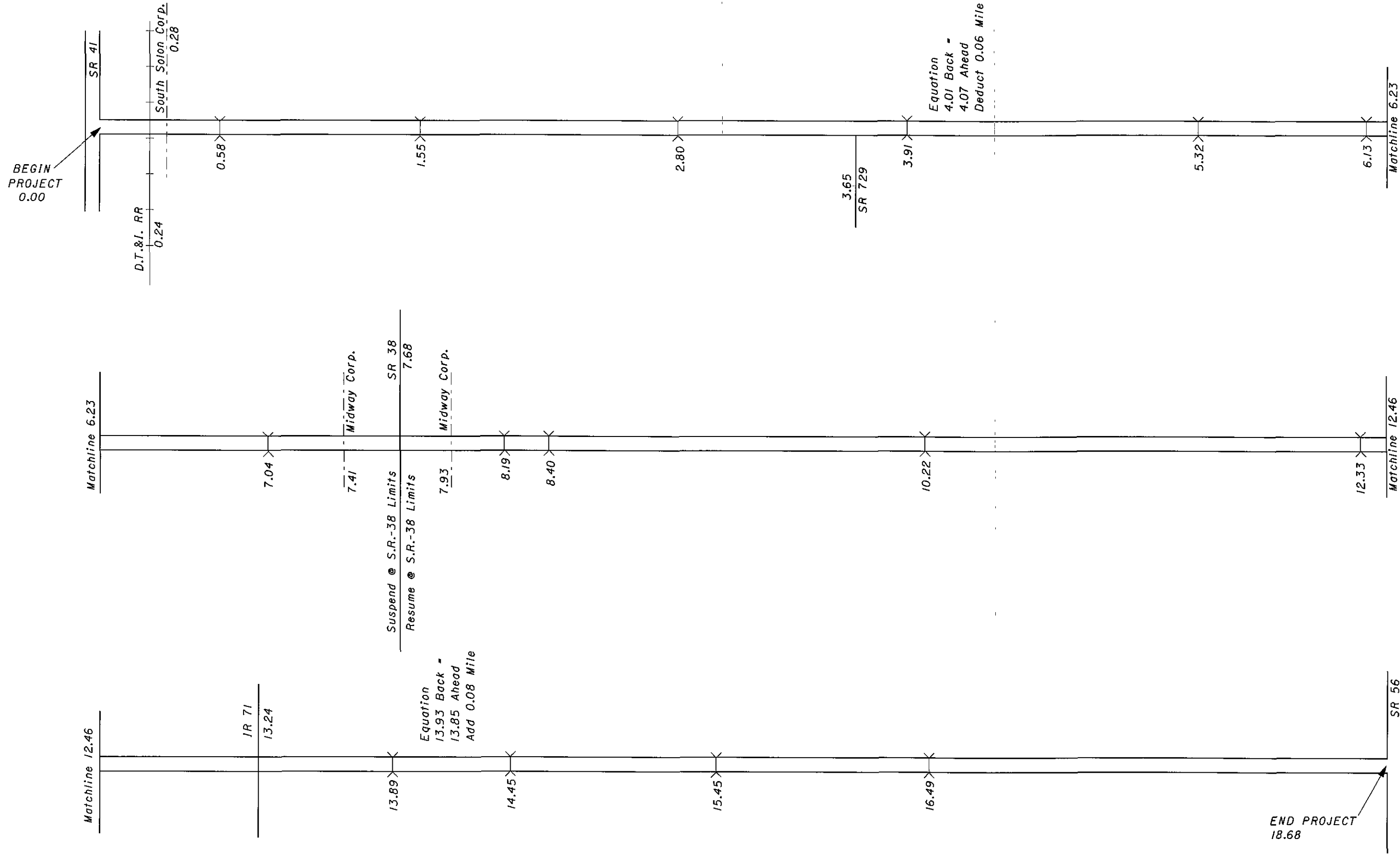
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LOCATION						DESIGN		SURFACE PAVEMENT					REMARKS				
C O U N T Y	R O U T E	L O G B E G	L O G E N D	L E N G T H		T Y P I C A L	A V E R A G E P A V E M E N T W I D T H S	A R E A	254								
				M I	F T				P A V E M E N T P L A N I N G, A S P H A L T C O N C R E T E	407	448						
												AVG D E P		T A C K C O A T	A C S U R F C O U R S E T Y P E I		
		M I	M I	M I	F T		F T	S Y	I N	S Y	G A L	I N	C Y				
MAD	41	1.38	1.53	0.15	792	2	30	2640	1.50	2640	198	1.50	110				
MAD	41	1.53	1.66	0.13	686	3	40	3049	1.50	3049	229	1.50	127				
MAD	41	1.66	1.83	0.17	898	2	30	2993	1.50	2993	224	1.50	125				
TOTALS CARRIED TO GENERAL SUMMARY											8682			651		362	

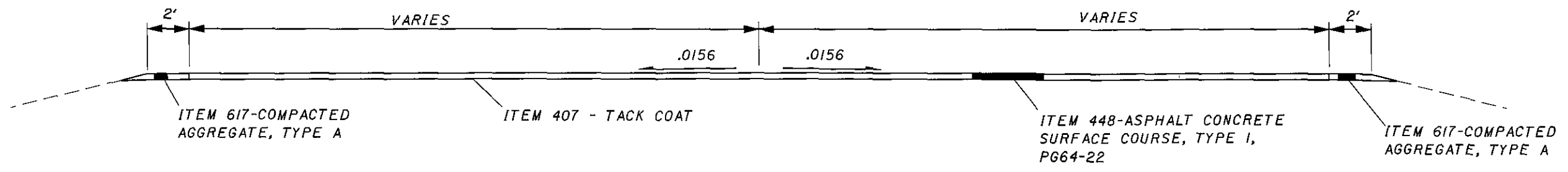
PROVIDE BUTT JOINT BP-3.J

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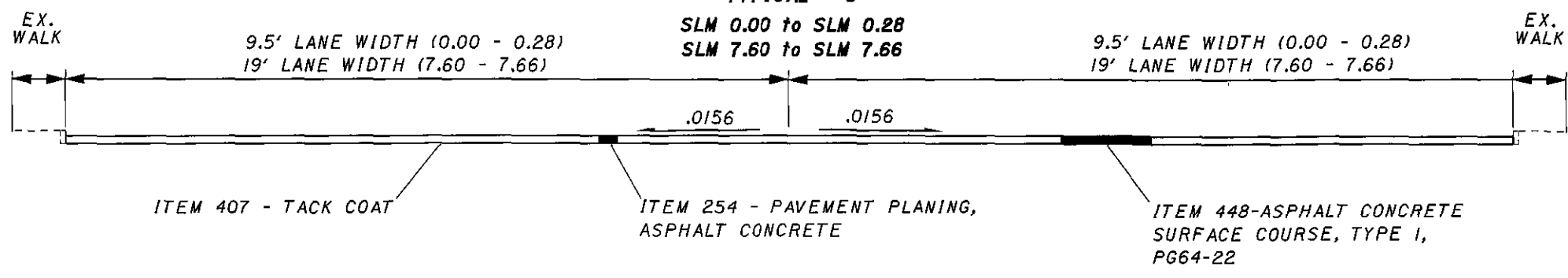
MAINLINE - S.R. 323
TYPICAL # 4

SLM 0.28 to SLM 3.43 (19') SLM 7.93 to SLM 13.01 (19')
 SLM 3.43 to SLM 4.07 (20') SLM 13.01 to SLM 13.85 (20')
 SLM 4.07 to SLM 7.41 (19') SLM 13.85 to SLM 15.33 (19')
 SLM 7.41 to SLM 7.60 (19') SLM 15.33 to SLM 15.65 (20')
 SLM 7.66 to SLM 7.93 (19') SLM 15.65 to SLM 18.68 (19')



MAINLINE - S.R. 323
TYPICAL # 5

SLM 0.00 to SLM 0.28
SLM 7.60 to SLM 7.66



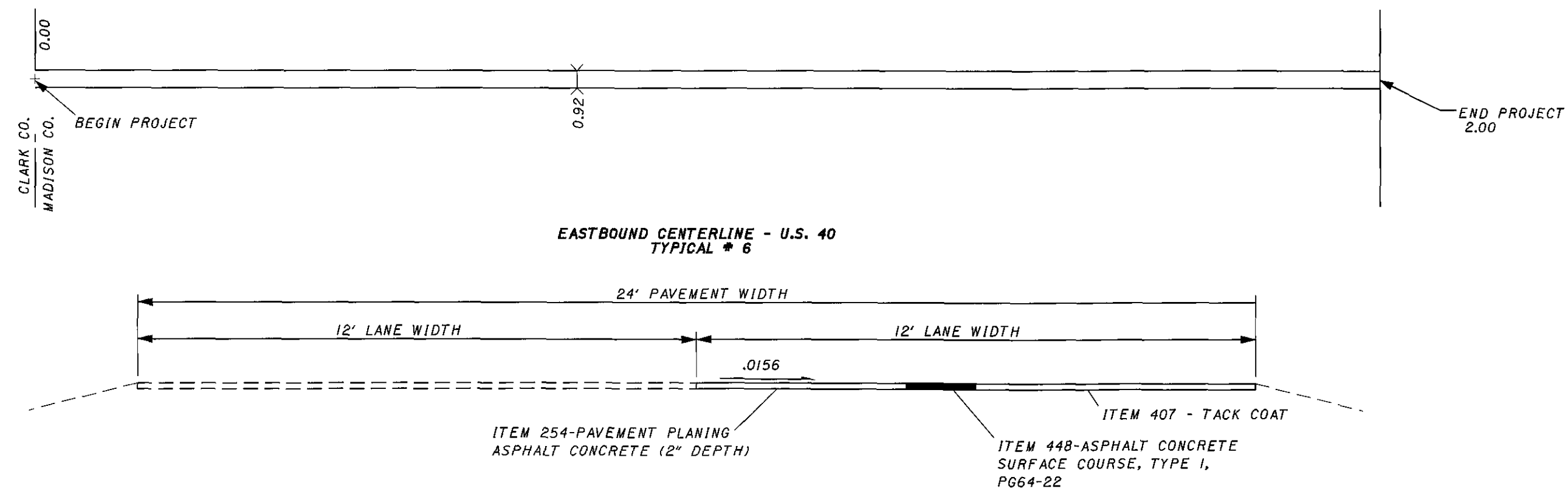
FOR PLANING DETAIL SEE SHEET 7

*PLANING INSIDE SOUTH SOLON CORP. LIMITS

** PLANING INSIDE MIDWAY CORP. LIMITS

LOCATION						DESIGN	SURFACE PAVEMENT										REMARKS		
C O U N T Y	R O U T E	L O G B E G	L O G E N D	L E N G T H		T Y P I C A L	A V E R A G E P A V E M E N T W I D T H S	A R E A	254		407		448		617				
									P A V E M E N T P L A N I N G, A S P H A L T C O N C R E T E	A V G D E P	T A C K C O A T	A C S U R F C O U R S E T Y P E I	C O M P A C T A G G T Y P E A	A V G T H K	A V G T H K	A V G T H K		A V G T H K	
																			SY
MAD	323	0.00	0.28	0.28	1478	5	19	28082	1.50	3120									BUTT JOINT
MAD	323	0.28	3.43	3.15	16632	4	19	316008	1.50	475									BUTT JOINTS @ RR/0280
MAD	323	3.43	4.07	0.58	3062	4	20	61240	1.50	667									BUTT JOINTS @ 0385/0391
MAD	323	4.07	7.41	3.34	17635	4	19	335065											
MAD	323	7.41	7.60	0.19	1003	4	19	19057	1.50	158									
MAD	323	7.60	7.66	0.06	317	5	38	12046	1.50	1338									
MAD	323	7.66	7.93	0.27	1426	4	19	27094	1.50	158									
MAD	323	7.93	13.01	5.08	26822	4	19	509618	1.50	633									BUTT JOINTS @ 1022/1233
MAD	323	13.01	13.85	0.84	4435	4	20	88700											
MAD	323	13.85	15.33	1.56	8237	4	19	156503	1.50	317									BUTT JOINTS @ 1445
MAD	323	15.33	15.65	0.32	1690	4	20	33800	1.50	333									BUTT JOINTS @ 1545
MAD	323	15.65	18.68	3.03	15998	4	19	303962	1.50	158									
TOTALS CARRIED TO GENERAL SUMMARY										7357									

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LOCATION						DESIGN		SURFACE PAVEMENT						REMARKS
COUNTY	ROUTE	LOG	LOG	LENGTH		TYPICAL	AVERAGE PAVEMENT WIDTHS	AREA	254		407	448		
		BEG	END						PAVEMENT PLANING, ASPHALT CONCRETE	TACK COAT		AC SURF COURSE TYPE I PG64-22		
		MI	MI	MI	FT				FT	SY		AVG DEP	IN	
MAD	38	0.00	2.00	2.00	10560	6	12	14080	2.00	14080	1056	2.00	782	PROVIDE BUTT JOINT BP-3.1
MAD	38	0.92	0.93		80		12	106.7	2.00	106.7	8	2.00	6	DEDUCT FOR STRUCTURE @ 0.92
TOTALS CARRIED TO GENERAL SUMMARY										13973	1048		776	

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*AREAS CALCULATED UTILIZING CADD TOOLS

*DEPTH = 1.25" ON S.R. 38, DEPTH = 1.50" ON S.R. 41 AND S.R. 323

LOCATION						PAVEMENT WIDTH				QUANTITIES				REMARKS
L O C A T I O N	C O U N T Y	R O U T E	S L M	S L M	T Y P I C A L	L E N G T H	S H O U L D E R (WB)	P A V E M E N T (WP)	* A R E A S Q. F T.	407	448	617		
										TACK C O A T 0.075 G A L. P E R S Q. Y D.	A S P H A L T S U R F A C E C O U R S E T Y P E 1 P G 6 4 - 2 2 * D E P T H	C O M P A C T A G G. T Y P E A 2" D E P T H		
										GAL.	C U. Y D.	C U. Y D.		
FT.	FT.	FT.	FT.											
1	MAD	38	22.81	30.02	1		2	20	278	67.2	37.3		29 EACH EXISTING MAILBOX APPROACHES	
									409	92.0	42.6	10.0	27 EACH GRAVEL DRIVEWAYS	
									210	31.5	14.6		18 EACH ASPHALT DRIVEWAYS	
									210	3.5	1.6		2 EACH CONCRETE DRIVEWAYS	
									600	25.0	11.6		PROVIDE BUTT JOINTS (BP-3.1)	
									1200	20.0	9.3		5 EACH, THREE WAY INTERSECTIONS	
													2 EACH, FOUR WAY INTERSECTIONS	
1	UNI	38	0.00	0.11	1		2	20	278	2.3	1.3		1 EACH EXISTING MAILBOX APPROACH	
									210	1.8	1.0		1 EACH ASPHALT DRIVEWAY	
2	MAD	41	1.38	1.83	2				409	10.2	5.7	1.1	NO EXISTING MAILBOX APPROACHES	
									210	36.8	20.4		3 EACH GRAVEL DRIVEWAYS	
									210	1.8	1.0		21 EACH ASPHALT DRIVEWAYS	
									600	5.0	8.3		1 EACH CONCRETE DRIVEWAY	
													PROVIDE BUTT JOINTS (BP-3.1)	
													3 EACH, THREE WAY INTERSECTIONS	
3	MAD	323	0.00	18.68	4		2	20	278	231.7	128.7		100 EACH EXISTING MAILBOX APPROACHES	
									409	272.7	151.5	29.6	80 EACH GRAVEL DRIVEWAYS	
									210	138.3	76.8		79 EACH ASPHALT DRIVEWAYS	
									210	1.8	1.0		1 EACH CONCRETE DRIVEWAY	
									600	85.0	47.2		PROVIDE BUTT JOINTS (BP-3.1)	
													17 EACH, THREE WAY INTERSECTIONS	
SUB TOTALS										1026.6	559.9	40.7		
TOTALS CARRIED TO GENERAL SUMMARY										1027	560	41		

CALCULATED
GLM
CHECKED
MDC

INTERSECTION/ DRIVE SUBSUMMARY

MAD-38-22.81

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* CONTINUED FROM BELOW

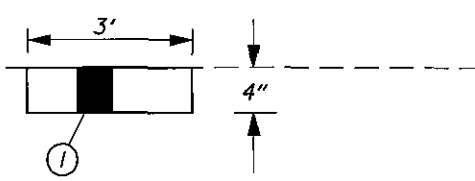
PAVEMENT REPAIR		ITEM 251
BEGIN SLM	END SLM	PARTIAL DEPTH PAVEMENT REPAIR, AS PER PLAN SQ. YD.
EASTBOUND		
MAD-323-0.28		
1.57	1.58	17.6
2.08	2.11	52.8
2.30	2.32	35.2
2.56	2.57	17.6
2.88	2.90	35.2
3.06	3.08	35.2
3.16	3.20	70.4
3.68	3.69	17.6
3.98	4.01	52.8
5.54	5.55	17.6
6.24	6.27	52.8
7.20	7.21	17.6
7.74	7.75	17.6
8.86	8.88	35.2
9.47	9.50	52.8
9.62	9.64	35.2
10.06	10.09	52.8
10.30	10.32	35.2
10.54	10.57	52.8
10.60	10.62	35.2
11.51	11.53	35.2
11.94	11.95	17.6
12.00	12.02	35.2
12.50	12.51	17.6
12.65	12.67	35.2
12.80	12.82	35.2
12.89	12.91	35.2
14.33	14.35	35.2
14.58	14.61	52.8
14.73	14.76	52.8
14.83	14.84	17.6
15.65	15.69	70.4
15.81	15.87	105.6
15.95	16.01	105.6
16.25	16.26	17.6
16.47	16.50	52.8
17.66		2.0
17.72		1.3
17.86		1.8
17.95		2.0
18.00		1.3
18.14		1.8
18.28		1.3
18.55		1.8
WESTBOUND		
0.98	1.04	105.6
2.23	2.24	17.6
2.56	2.58	35.2
3.38	3.40	35.2
5.22	5.23	17.6
6.96	6.97	17.6
8.62	8.65	52.8
8.87	8.88	17.6
9.00	9.02	35.2
9.47	9.50	52.8
9.71	9.72	17.6
10.00	10.05	88.0
10.30	10.34	70.4
11.07	11.11	70.4
11.37	11.40	52.8
12.35	12.38	52.8

* CONTINUED NEXT COLUMN

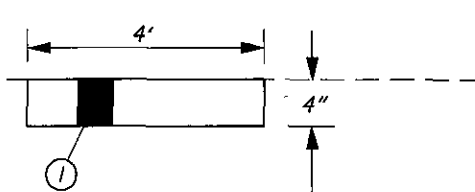
PAVEMENT REPAIR		ITEM 251
BEGIN SLM	END SLM	PARTIAL DEPTH PAVEMENT REPAIR, AS PER PLAN SQ. YD.
WESTBOUND		
MAD-323-0.28		
12.49	12.51	35.2
12.57	12.58	17.6
12.69	12.71	35.2
12.89	12.91	35.2
12.94	12.96	35.2
13.33	13.34	17.6
13.43	13.45	35.2
13.47	13.48	17.6
13.53	13.55	35.2
13.63	13.64	17.6
14.51	14.54	52.8
15.24	15.26	35.2
15.39	15.40	17.6
15.50	15.53	52.8
16.22	16.23	17.6
16.72	16.74	35.2
16.78	16.79	17.6
17.37	17.39	35.2
17.43	17.44	17.6
17.47	17.52	88.0
17.56	17.59	52.8
17.81	17.82	17.6
17.89	17.96	123.2
TOTALS		3058
ADD 20%		612
TOTALS (SQ. YD.)		3670
TOTALS (CU. YD.)		408

$3670 \times (4/12)/3 = 408 \text{ CY}$

S.R. 323 PAVEMENT REPAIR DETAIL



S.R. 38 PAVEMENT REPAIR DETAIL



① ITEM 301 - ASPHALT CONCRETE BASE, PG64-22

PAVEMENT REPAIR		ITEM 251
BEGIN SLM	END SLM	PARTIAL DEPTH PAVEMENT REPAIR, AS PER PLAN SQ. YD.
NORTHBOUND		
MAD-38-22.81		
UNI-38-0.00		
23.20	23.78	1361.1
24.15	24.40	586.7
24.47	24.49	46.9
24.61	24.72	258.1
24.75	24.90	352.0
25.18	25.21	70.4
25.30	25.33	70.4
25.39	25.43	93.9
25.65	25.73	187.7
25.87	25.94	164.3
26.09	26.14	117.3
26.17	26.50	774.4
26.55	26.63	187.7
27.07	27.30	539.7
27.46	27.61	352.0
28.00	28.07	164.3
28.44	28.50	140.8
29.55	29.60	117.3
29.62	29.66	93.9
29.85	29.88	70.4
SOUTHBOUND		
24.10	24.12	46.9
24.44	24.49	117.3
25.09	25.14	117.3
25.95	25.98	70.4
26.03	26.08	117.3
26.51	26.55	93.9
26.97	27.00	70.4
27.12	27.19	164.3
28.51	28.57	140.8
28.95	29.07	281.6
29.17	29.24	164.3
TOTALS		7133.8
ADD 20%		1426.8
TOTALS (SQ. YD.)		8560.6
TOTALS (CU. YD.)		951

$(\text{END SLM} - \text{BEGIN SLM}) \times 5280 \times \text{WIDTH} / 9 = \text{SQ. YD.}$
 $\text{SQ. YD.} \times 9 = \text{SQ. FT.} \times (4/12) / 27 = \text{CU. YD.}$

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 251 PARTIAL DEPTH PAVEMENT REPAIR, AS PER PLAN 408 + 951 = 1359 CU. YD.

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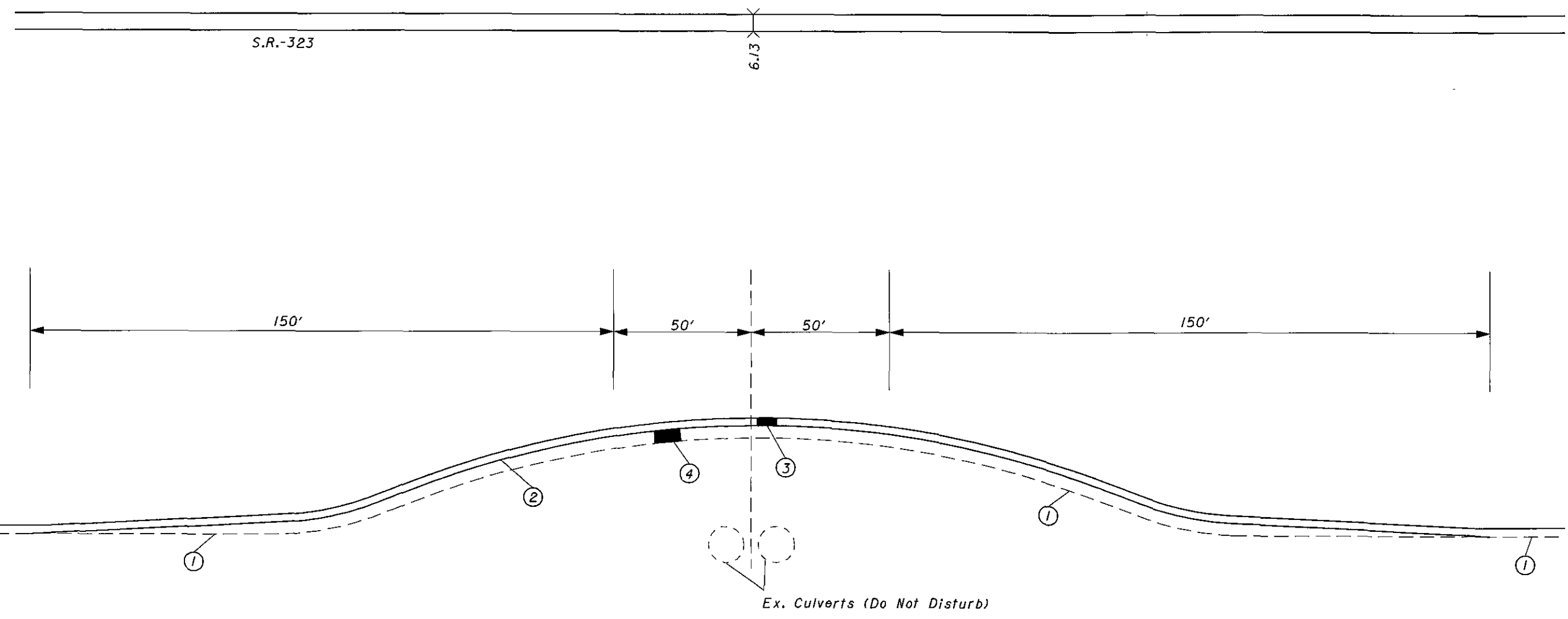
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MAD-38-2725 4900626	MAD-323-0280 4903935	MAD-323-0385 4904176	MAD-323-0391 4903994	MAD-323-0704 4904060	MAD-323-0840 4904095	MAD-323-1022 4904117	MAD-323-1233 4904141	MAD-323-1445 4904206	MAD-323-1545 4904230	ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
														STRUCTURES (OVER 20')	
150				150	121					SPECIAL	51631200	421	FT	SAWING AND SEALING BITUMINOUS CONCRETE JOINTS	17
	74		72							SPECIAL	51631300	146	FT	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM	18
	61		100			8	8	31	33	SPECIAL	51912300	241	SQ YD	PATCHING CONCRETE BRIDGE DECK, TYPE B	PN
	306	1247	500			77	358	311	332		841	10000	SQ YD	TREATING OF CONCRETE SURFACES WITH SRS	

ESTIMATED BRIDGE QUANTITIES

MAD-38-22.81

CALCULATED
GLM
CHECKED
MDC



ASPHALT WEDGE QUANTITIES		
	407	448
OVER STRUCTURE	TACK COAT FOR INTERMEDIATE COURSE	3" ASPHALT CONCRETE SURFACE COURSE, TYPE I, PG64-22
	GAL	CU. YD.
MAD-323-0323	35	45
TOTALS	35	45

TOTALS CARRIED TO GENERAL SUMMARY

ASPHALT WEDGE CALCULATION:
 ITEM 448: $100' \times 19.5' \times (3"/12) = 487.5 \text{ CU. FT.}$
 $2 \times 150' \times 19.5' \times (1.5"/12 \text{ AVG.}) = 731.3 \text{ CU. FT.}$

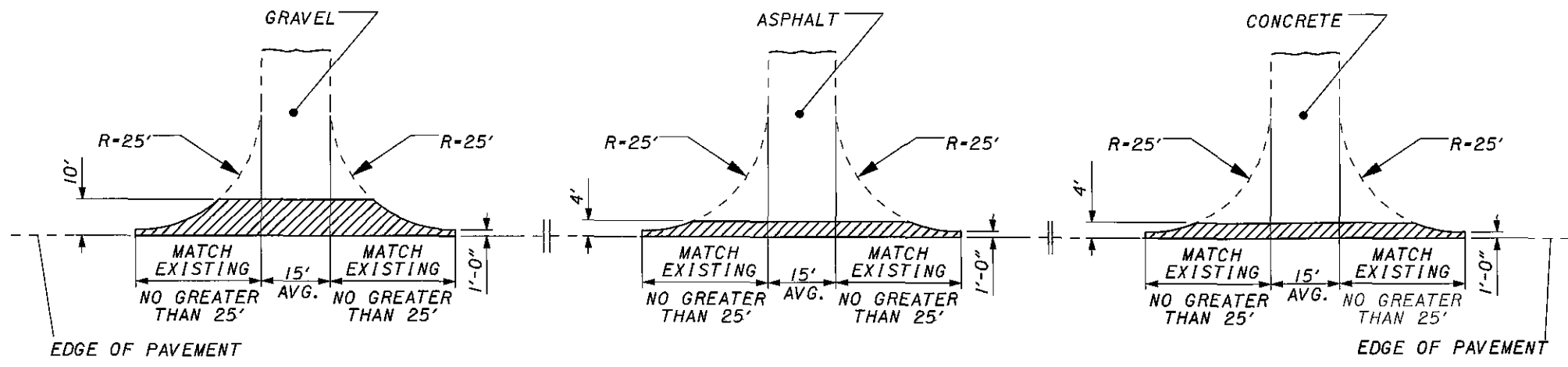
 $1218.8/27$
 = 45 CU. YD.

 ITEM 407: $400' \times 19.5' \times (0.04 \text{ GAL./SQ. YD.}) = 35 \text{ GAL.}$

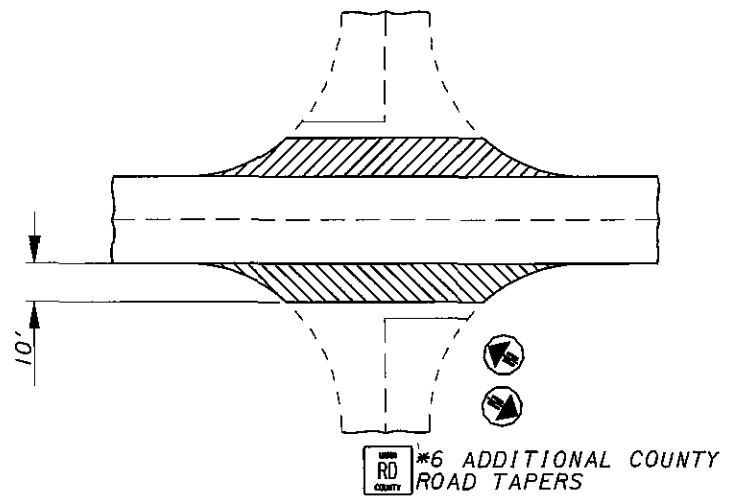
LEGEND

- ① ITEM 407 - TACK COAT (APPLIED AT A RATE OF 0.075 GAL./SQ.YD.) - QUANTITY INCLUDED IN MAINLINE CALCULATIONS
- ② ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE (APPLIED AT A RATE OF 0.04 GAL./SQ.YD.)
- ③ ITEM 448 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE I, PG64-22 - QUANTITY INCLUDED IN MAINLINE CALCULATIONS
- ④ ITEM 448 - 3" ASPHALT CONCRETE SURFACE COURSE, TYPE I, PG64-22 (PLACE IN TWO LIFTS OF 1-1/2" EACH)

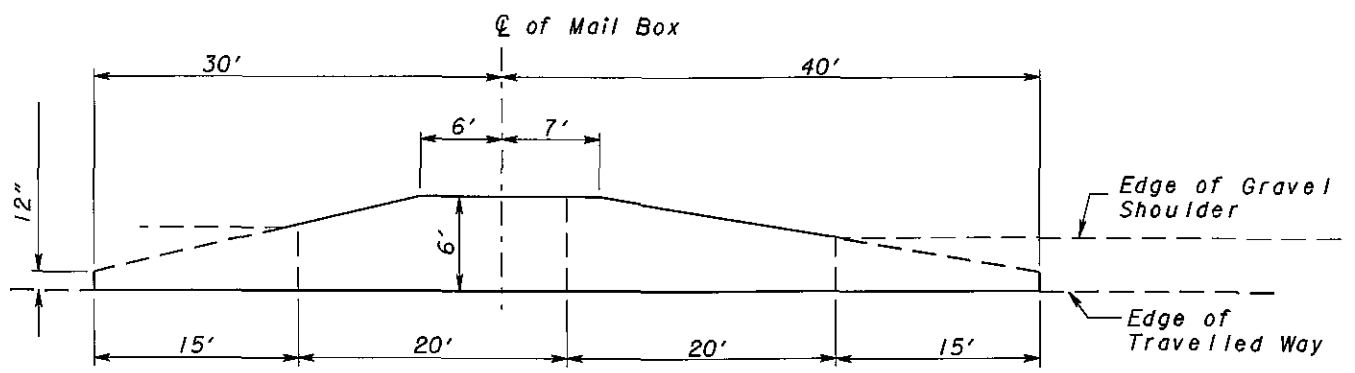
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DRIVEWAY APPROACH DETAILS



TYPICAL INTERSECTION DETAILS



TYPICAL MAIL BOX APPROACH

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GENERAL NOTES AND DETAILS FOR POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM

ITEM SPECIAL - POLYMER-MODIFIED ASPHALT EXPANSION JOINT SYSTEM

THIS ITEM WILL BE USED TO SEAL THE EXPANSION/CONTRACTION JOINTS AS PER THESE DETAILS AND THE MANUFACTURER'S REQUIREMENTS USING A POLYMER-MODIFIED ASPHALT SYSTEM. THE PRIME CONTRACTOR WILL OBTAIN THE SERVICES OF ONE OF THE FOLLOWING APPROVED APPLICATORS WHO WILL FURNISH AND INSTALL THE NEW BRIDGE EXPANSION JOINT SYSTEM AFTER ALL PAVING ON THE AFFECTED BRIDGE(S) HAS BEEN COMPLETED.

PAWTECH INTERNATIONAL
4660 DUKE DRIVE
SUITE 390
MASON, OH 45040
TEL: (513) 770-3122

LINEAR DYNAMICS, INC.
79 MONTGOMERY ST.
MONTGOMERY, PA 17752
TEL: (570) 547-1621

WATSON-DOWMAN ACME
95 PINEVIEW DR.
AMHERST, NY 14228
TEL: (716) 691-7566 OR
TEL: (800) 253-9225

MATERIALS:

BRIDGING PLATE:

MILD STEEL $\frac{1}{8}$ " OR $\frac{1}{4}$ " THICK PLATE, 8" WIDE OR 18 GAUGE ALUMINUM, 8" WIDE.

BINDER:

TYPE: POLYMER MODIFIED ASPHALT
SOFTENING POINT: 180 DEGREES F. MIN.
FLOW: 3 mm. MAX. AT 140 DEGREES F.
PENETRATION: 9 mm. MAX. AT 77 DEGREES F.
1 mm. MIN AT 0 DEGREES F.
ASTM D 3407
DUCTILITY: 40 cm. MIN. ASTM D 113
RESILIENCE: 60% MIN. AT 77 DEGREES F.
TENSILE ADHESION: 700% MIN.
SPECIFIC GRAVITY: 1.10 ± 0.05
POURING TEMP: 350 - 390 DEGREES F.

AGGREGATE:

TYPE: CRUSHED, DOUBLE WASHED, AND DRIED GRANITE OR BASALT

GRADATION

THE GRADATION OF THE AGGREGATE VARIES BY MANUFACTURER AND WILL BE AS PER THE MANUFACTURER'S RECOMMENDATIONS FOR THE SYSTEM BEING USED ON THIS PROJECT.

BACKER ROD:

THE BACKER SHALL BE A CLOSED CELL FOAM EXPANSION JOINT FILLER CAPABLE OF WITHSTANDING THE PLACEMENT TEMPERATURE OF THE POLYMER MODIFIED ASPHALT.

NOTE: PRIOR TO PLACEMENT OF ANY PORTION OF THE JOINT SYSTEM, THE PROJECT ENGINEER MUST HAVE CERTIFIED TEST DATA MEETING ALL THE MINIMUM REQUIREMENTS OF ALL THE MATERIALS OF THE JOINT SYSTEM.

INSTALLATION PROCEDURES:

SAWING AND SURFACE PREPARATION:

AFTER ALL PAVING OPERATIONS ARE COMPLETE, THE OVERLAY IS TO BE TRANSVERSELY SAW CUT FULL DEPTH NO LESS THAN TWO INCHES DEEP (20" CENTERED OVER JOINT OPENING, UNLESS OTHERWISE NOTED). REMOVE ALL MATERIAL, INCLUDING WATER-PROOFING MATERIAL, BETWEEN SAW CUTS. THOROUGHLY CLEAN AND DRY EXPOSED CONCRETE, STEEL, AND CUT SURFACES USING COMPRESSED AIR AND A HOT COMPRESSED AIR (HCA) LANCE. THE LANCE MUST PRODUCE A FLAME RETARDED AIR STREAM TEMPERATURE OF 3000 DEGREES F. AT A VELOCITY OF 3,000 FEET PER

SECOND WITH 15 PSIG CHAMBER PRESSURE. IF THERE IS AN INTERRUPTION DUE TO WEATHER OR OTHER CAUSES, THE OPERATION WILL BE REPEATED WITH THE HCA LANCE IMMEDIATELY BEFORE THE BINDER COAT OPERATION. ALSO, 6 INCHES OF THE ROAD SURFACE ON EITHER SIDE OF THE JOINT WILL BE DRIED SO THAT A SUITABLE SURFACE FOR BITUMEN ADHESION IS OBTAINED.

SEALING OF EXPANSION JOINT: (PRE-STRESSED BOX OR CONCRETE SLAB)

THE EXPANSION JOINT GAP IS TO BE SEALED AND A BRIDGING PLATE CENTERED ALONG IT. A VERY NARROW GAP WILL BE SEALED BY POURING HOT BINDER INTO THE GAP. GAPS OF $\frac{1}{8}$ " OR MORE WILL FIRST BE FILLED WITH AN APPROPRIATELY SIZED BACKER ROD. THE BACKER ROD WILL BE INSTALLED SO THAT IT IS BETWEEN $\frac{1}{8}$ " AND $1-1/8$ " BELOW THE TOP OF THE EXISTING GAP. THE GAP WILL THEN BE FILLED WITH BINDER.

BOND BREAKER:

SPREAD BINDER OVER SURFACE AREA WHERE THE METAL BRIDGING PLATE WILL BE PLACED. CENTER THE BRIDGING PLATE OVER THE EXISTING JOINT AND BED INTO THE HOT BINDER. BUTT JOINT THE BRIDGING PLATES TO ACCOMMODATE THE ENTIRE JOINT LENGTH. SPIKE HOLES WILL BE DRILLED AT 1 FOOT INTERVALS ALONG THE LONGITUDINAL CENTERLINE OF THE PLATES. SECURE BRIDGING PLATE WITH NAILS OR SPIKES. SEAL BUTT JOINTS WITH HOT BINDER AND ALLOW BINDER TO SETUP BEFORE NEXT OPERATION. WHEN ALUMINUM BRIDGING PLATES ARE USED, ONLY THE BINDER IS REQUIRED TO SECURE THE INDIVIDUAL PLATES.

BINDER COAT:

SEAL ALL PREPARED, EXPOSED SURFACES OF THE JOINT WITH BINDER. POUR THE HOT BINDER OVER THE FLOOR AREA OF THE JOINT AND SPREAD TO COAT ALL EXPOSED SURFACES. THE BINDER WILL BE A MINIMUM OF $\frac{1}{2}$ " THICK ON THE BOTTOM OF THE JOINT CAVITY, WITH POOLS OF GREATER THICKNESS WHERE SURFACE IRREGULARITIES EXIST. THE BINDER APPLICATION TEMPERATURE WILL BE BETWEEN 350 AND 390 DEGREES F. THE BINDER WILL NOT BE ALLOWED TO BE HEATED ABOVE 410 DEGREES F. NOR ALLOWED TO EXCEED 390 DEGREES F. FOR MORE THAN 1 HOUR. A DOUBLE JACKETED OIL MELTER WILL BE USED TO HEAT THE BINDER. THE MELTER WILL BE EQUIPPED WITH A CONTINUOUS AGITATION SYSTEM, TEMPERATURE CONTROLS, AND A CALIBRATED THERMOMETER. ALSO A SYSTEM FOR ACCURATELY MEASURING THE WEIGHTS OF THE BINDER AND THE AGGREGATE WILL BE REQUIRED.

BUILD-UP OF JOINT LAYERS:

AGGREGATE PREPARATION:

HEAT THE AGGREGATE TO A TEMPERATURE OF 275 TO 325 DEGREES F., WITH A SUITABLE ROTATING DRUM WITH ATTACHED HEAT SOURCE OR A HOT COMPRESSED AIR LANCE, TO REMOVE DUST AND MOISTURE.

AGGREGATE PROPORTION AND LAYER THICKNESS:

MIX THE AGGREGATE WITH THE BINDER SUCH THAT THE MINIMUM AGGREGATE CONTENT BY WEIGHT WILL BE 68%. THE HEATED AGGREGATE AND BINDER WILL BE COMBINED IN LAYERS, UNLESS PATENTED INSTALLATION REQUIRES DIFFERENTLY, NOT LESS THAN $\frac{3}{4}$ OF AN INCH NOR EXCEEDING 2-1/2 INCHES. THE THICKNESS OF EACH LAYER CAN BE VARIED WITHIN THESE LIMITS, TO ACHIEVE THE REQUIRED JOINT THICKNESS (MIN. 2 INCHES). THE OBJECTIVE IS TO COAT EACH STONE AND FILL THE VOIDS WHILE AVOIDING AN EXCESS OF BINDER. THIS WILL ACHIEVE THE MAXIMUM CONTENT OF STONE CONSISTENT WITH ALL STONES BEING COATED WITH BINDER. RAKE THE MIXTURE TO MIX AND LEVEL.

THE TOP LAYER THICKNESS WILL VARY BETWEEN $\frac{1}{2}$ INCH AND ONE (1) INCH. IN PREPARING THE TOP LAYER, THE RATIO OF AGGREGATE TO BINDER WILL BE APPROXIMATELY 6:1 BY WEIGHT. OVERFILL THE TOP LAYER AND COMPACT TO THE LEVEL OF THE ADJACENT SURFACES USING A ROLLER OR VIBRATORY PLATE COMPACTOR. IMMEDIATELY AFTER COMPLETION OF THE COMPACTION, POUR SUFFICIENT BINDER OVER THE JOINT TO FILL THE SURFACE VOIDS AND COAT THE SURFACE STONE. DUST THE FINISHED JOINT WITH A FINE, DRY AGGREGATE TO PREVENT TACKINESS.

MAINTENANCE OF TRAFFIC:

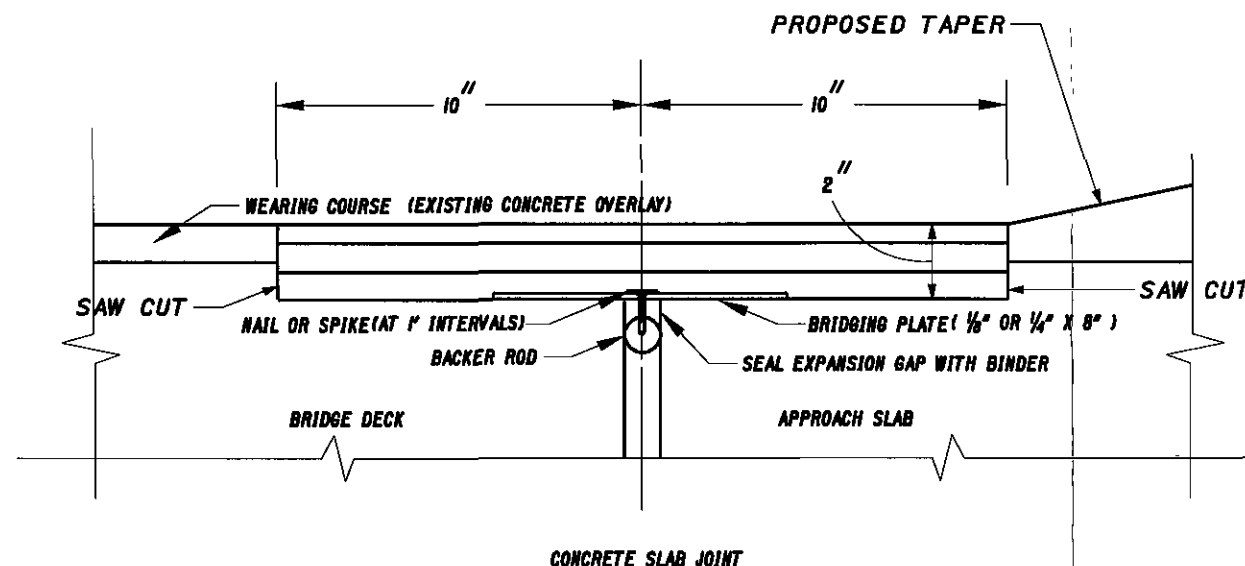
IF NECESSARY TO FACILITATE TRAFFIC MAINTENANCE, THE JOINT WILL BE INSTALLED IN TWO (2) HALF-WIDTH PHASES. DURING PHASE 1 APPROXIMATELY HALF OF THE TOTAL JOINT WILL BE INSTALLED. DURING PHASE 2, A MINIMUM OF TWO (2) INCHES OF THE PHASE 1 JOINT WILL BE REMOVED, AT OR NEAR THE CENTERLINE, WITH THE REMAINDER OF THE JOINT INSTALLED. IN ALL CASES, OPERATIONS WILL BE SCHEDULED SO THAT ALL LANES CAN BE OPEN TO TRAFFIC DURING ALL NON-WORKING HOURS.

TESTING:

CERTIFICATION WILL BE SUPPLIED FOR EACH PROJECT SHOWING BINDER COMPLIANCE WITH REQUIRED PROPERTIES. A ONE QUART SAMPLE OF BINDER WILL BE RETRIEVED FROM EACH BRIDGE FOR FURTHER TESTING BY THE O.D.O.T OFFICE OF MATERIALS MANAGEMENT.

METHOD OF MEASUREMENT AND BASIS OF PAYMENT:

THE DEPARTMENT WILL MEASURE THE JOINT BY THE NUMBER OF FEET AND WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT PRICE AS ITEM SPECIAL, FEET, POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM.



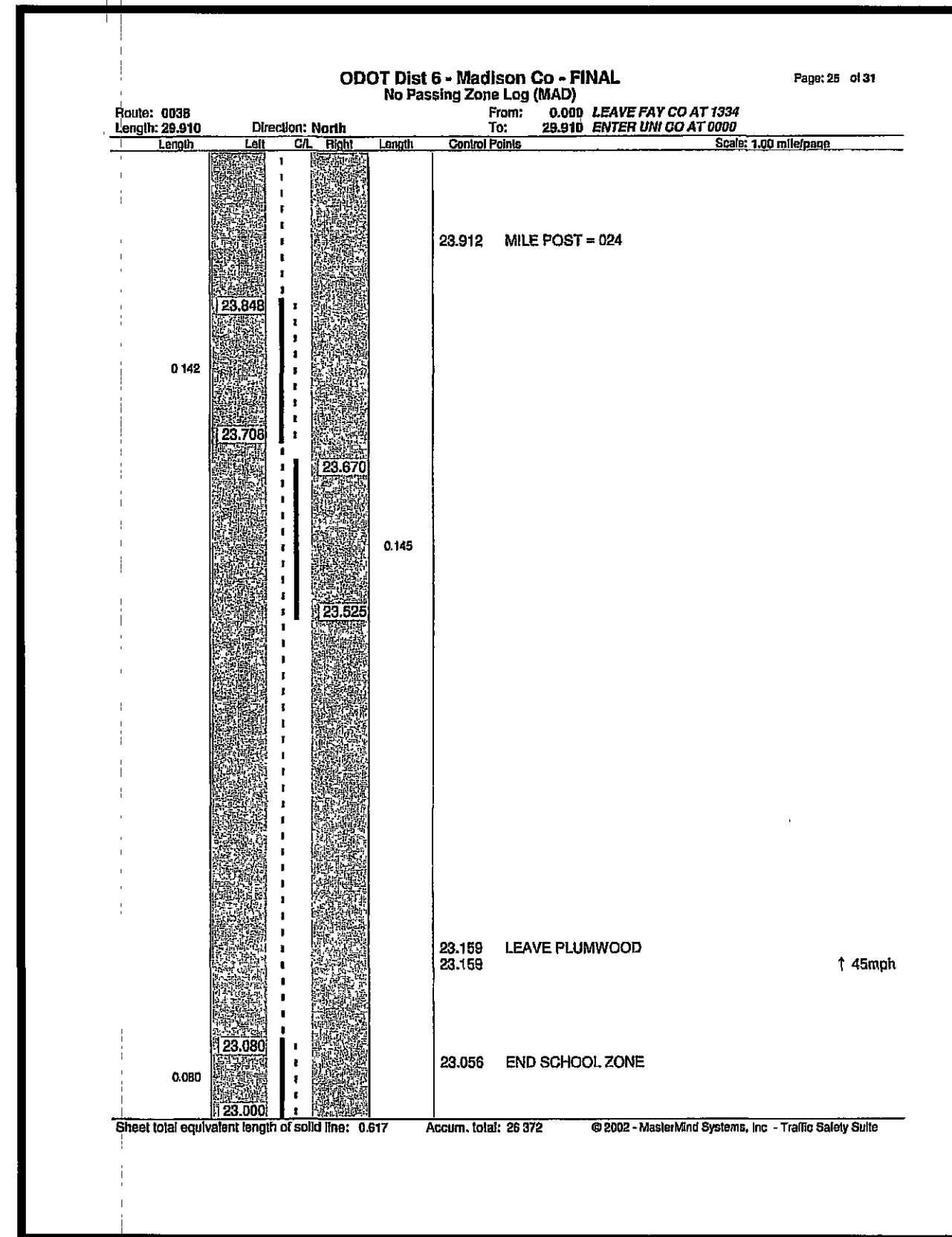
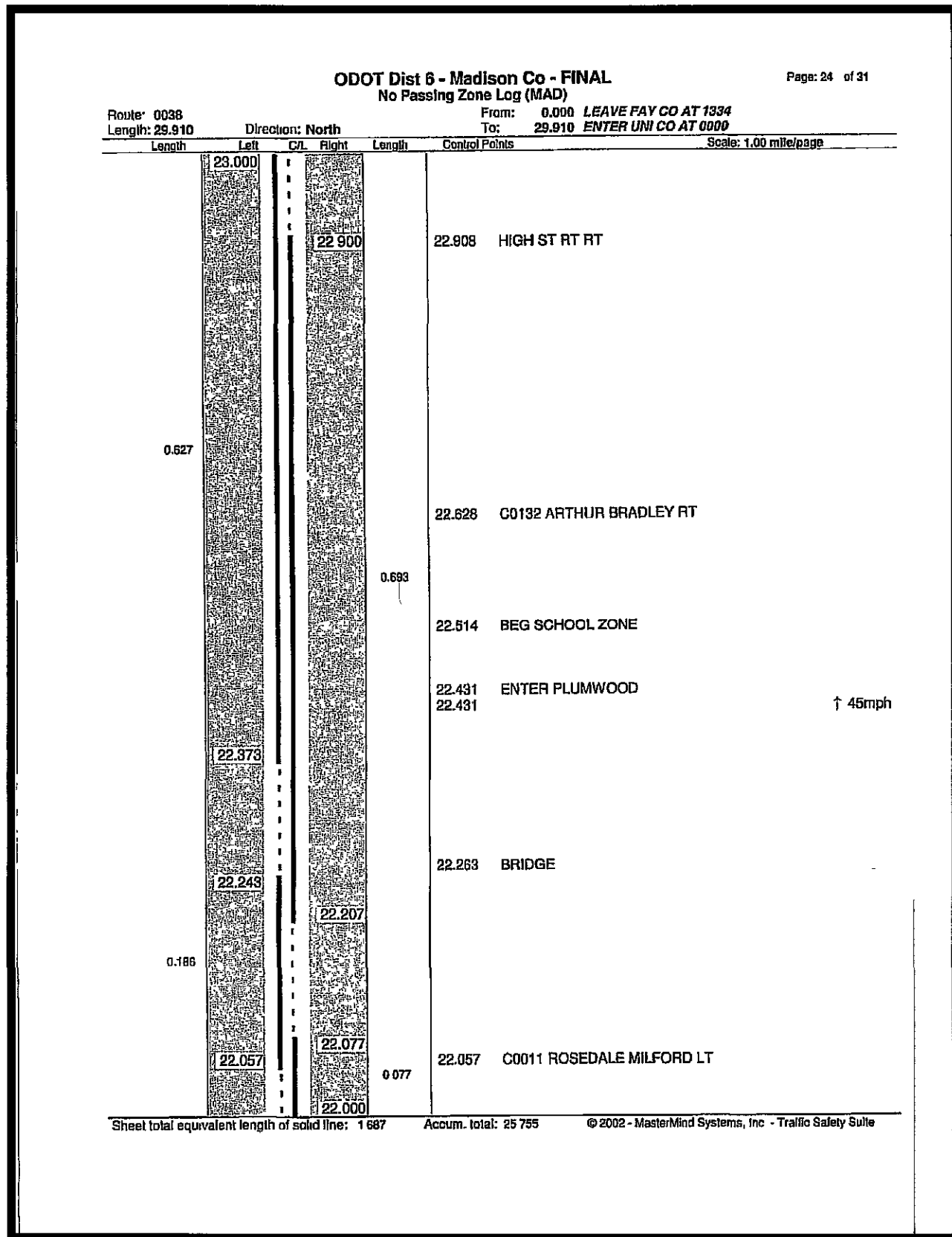
DATE REVISION
10-24-96
10-17-03

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MDC

POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM

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CALCULATED
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PAVEMENT MARKING DETAILS

MAD - 38 - 22.81

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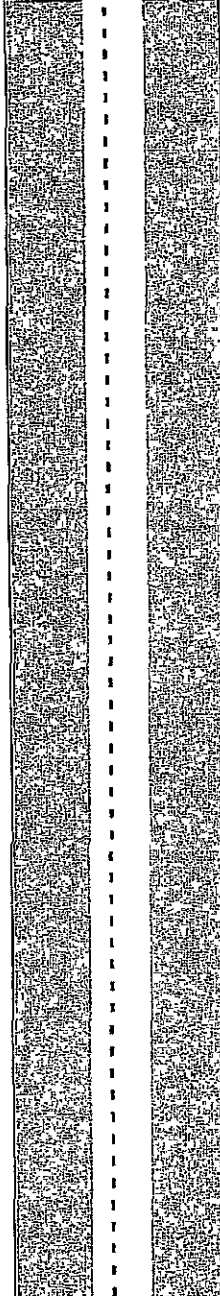
Page: 26 of 31

Route: 0038
Length: 29.910

Direction: North

From: 0.000 LEAVE FAY CO AT 1334
To: 29.910 ENTER UNI CO AT 0000

Length Left C/L Right Length Control Points Scale: 1.00 mile/page



24.975 C0126 JOSIAH MORRIS RT
24.904 MILE POST = 025

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ODOT Dist 6 - Madison Co - FINAL
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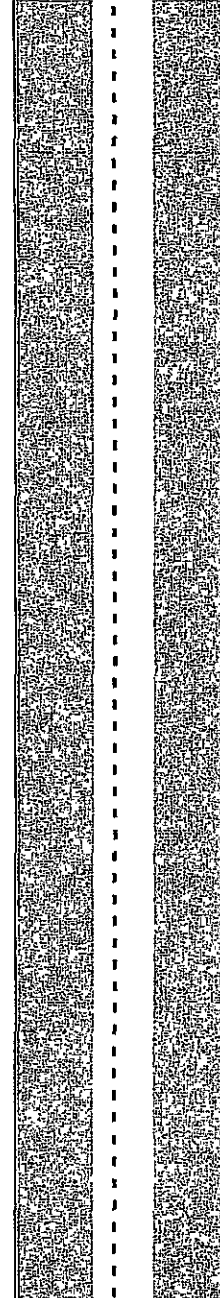
Page: 27 of 31

Route: 0038
Length: 29.910

Direction: North

From: 0.000 LEAVE FAY CO AT 1334
To: 29.910 ENTER UNI CO AT 0000

Length Left C/L Right Length Control Points Scale: 1.00 mile/page



25.866 MILE POST = 026

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PAVEMENT MARKING DETAILS

MAD - 38 - 22.81

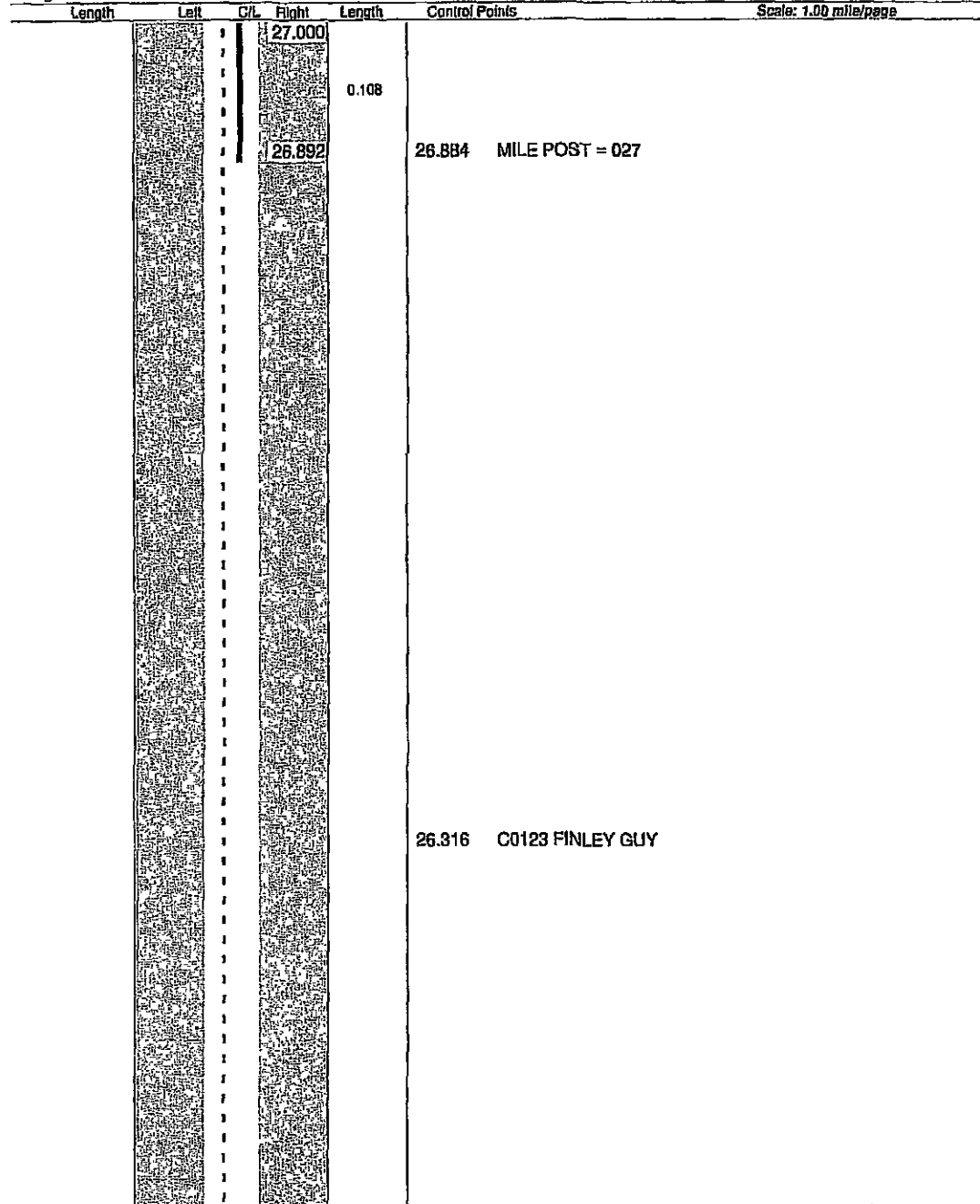
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ODOT Dist 6 - Madison Co - FINAL
No Passing Zone Log (MAD)

Page: 28 of 31

Route: 0038 Direction: North From: 0.000 LEAVE FAY CO AT 1334
Length: 29.910 To: 29.910 ENTER UNI CO AT 0000
Scale: 1.00 mile/page

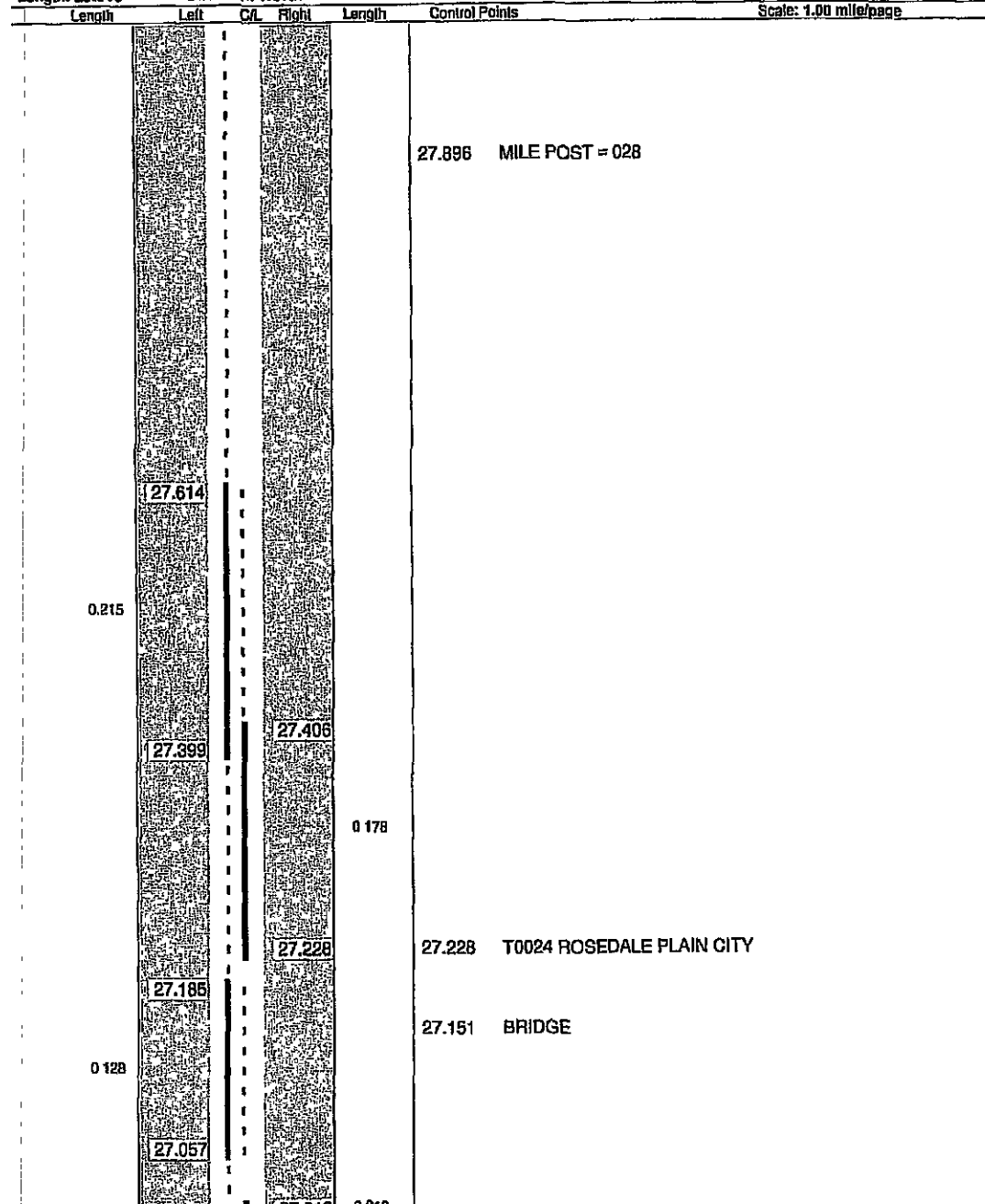


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ODOT Dist 6 - Madison Co - FINAL
No Passing Zone Log (MAD)

Page: 29 of 31

Route: 0038 Direction: North From: 0.000 LEAVE FAY CO AT 1334
Length: 29.910 To: 29.910 ENTER UNI CO AT 0000
Scale: 1.00 mile/page



Sheet total equivalent length of solid line: 0.782 Accum total: 28.012 © 2002 - MasterMind Systems, Inc - Traffic Safety Suite

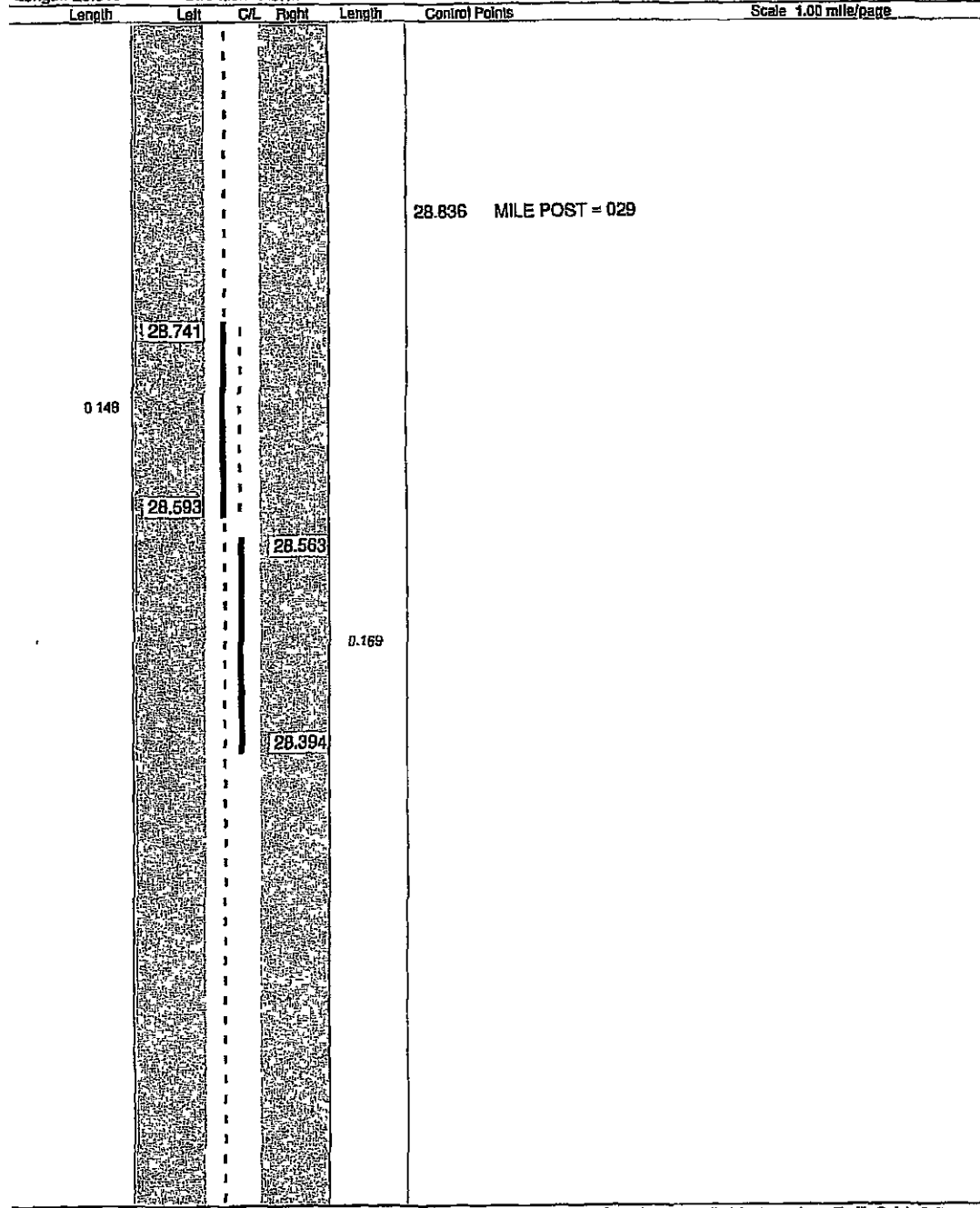
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PAVEMENT MARKING DETAILS

MAD - 38 - 22.81

ODOT Dist 6 - Madison Co - FINAL
No Passing Zone Log (MAD)

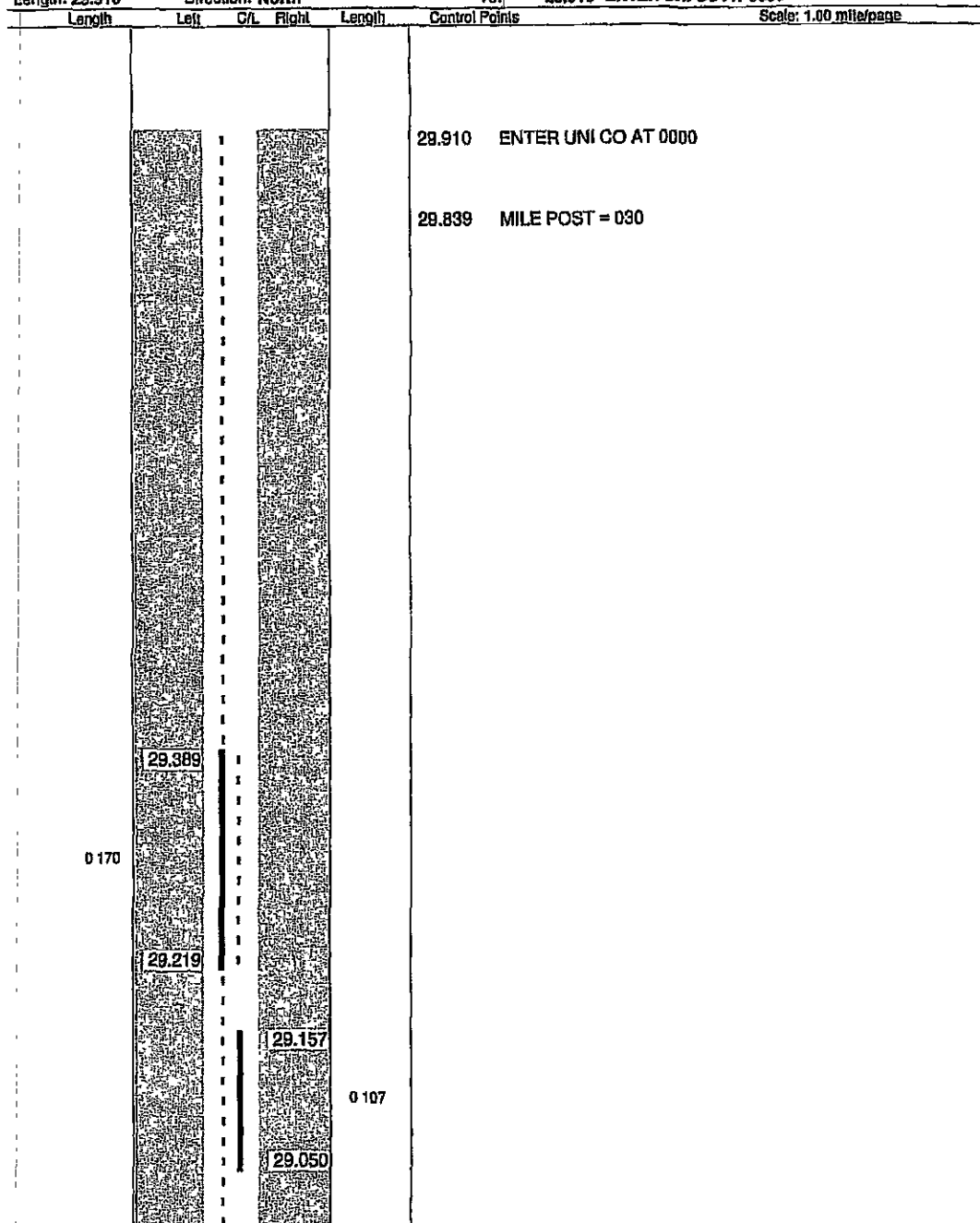
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Scale: 1.00 mile/page



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ODOT Dist 6 - Madison Co - FINAL
No Passing Zone Log (MAD)

Route: 0038 Direction: North From: 0.000 LEAVE FAY CO AT 1334
Length: 29.910 To: 29.910 ENTER UNI CO AT 0000
Scale: 1.00 mile/page



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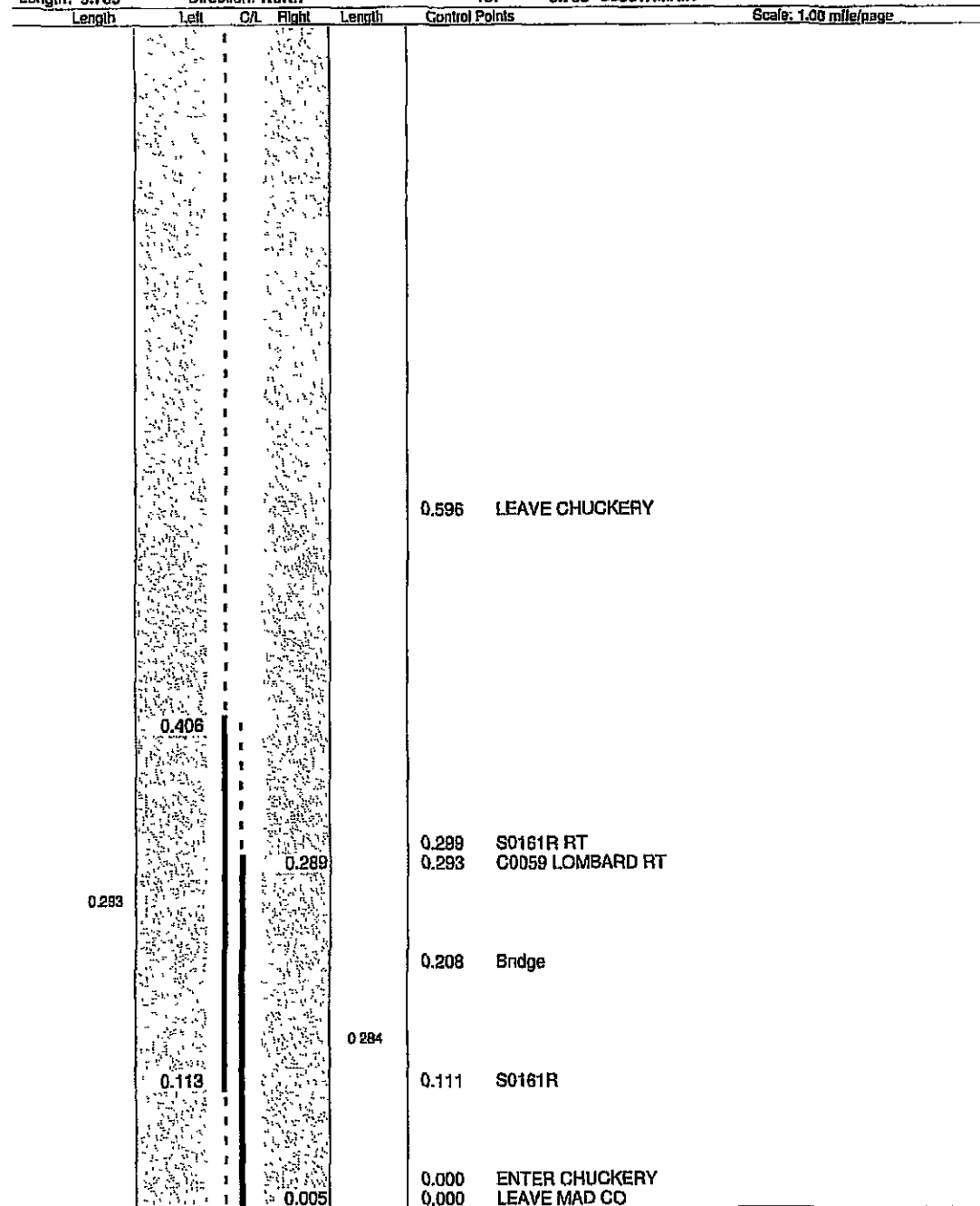
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ODOT Dist 6 - UNI Co - FINAL
No Passing Zone Log (UNI)

Page: 1 of 12

Route: 0038R Direction: North From: 0.000 LEAVE MAD CO
Length: 9.785 To: 9.785 S0031RMAIN Scale: 1.00 mile/page

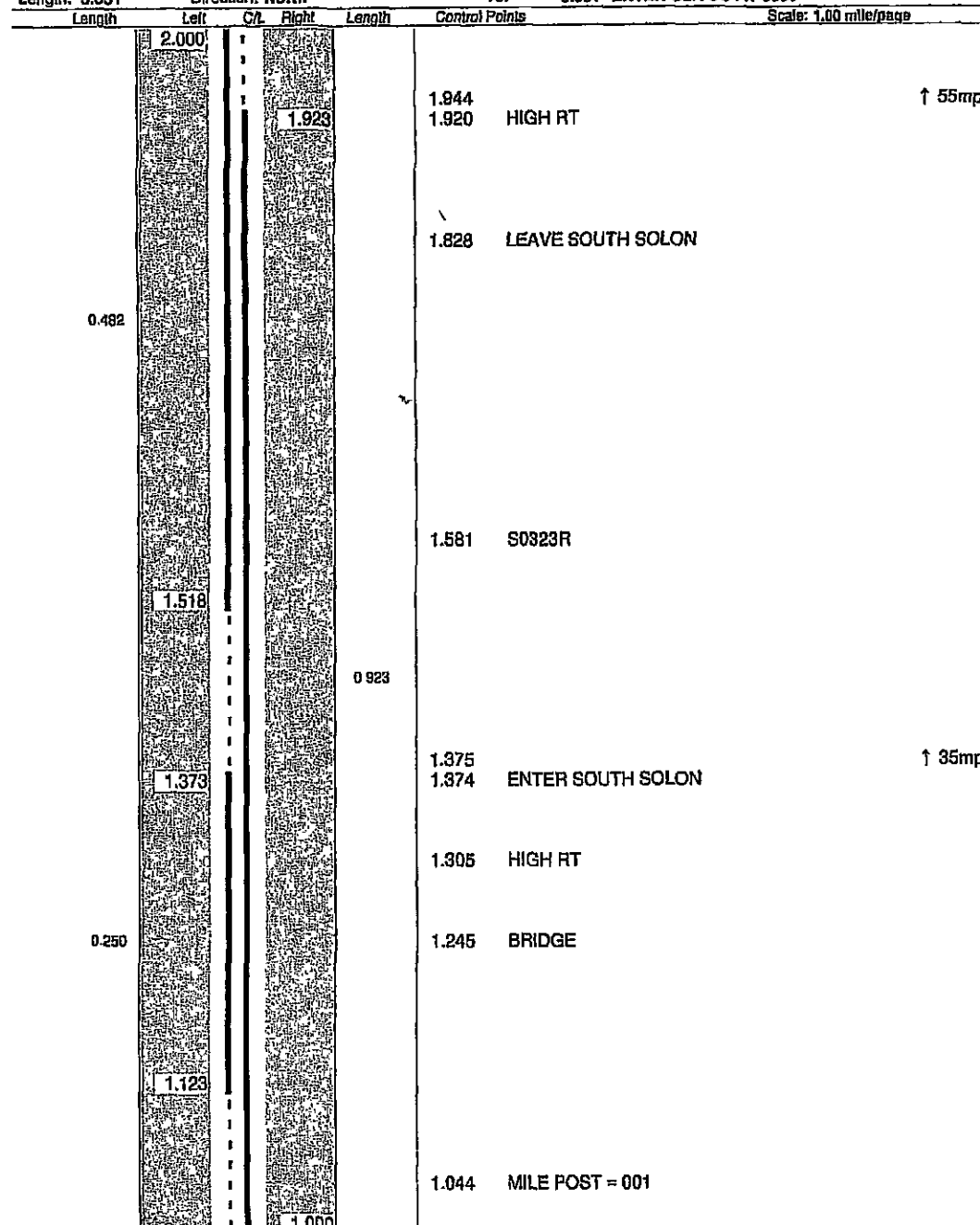


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ODOT Dist 6 - Madison Co - FINAL
No Passing Zone Log (MAD)

Page: 2 of 4

Route: 0041 Direction: North From: 0.000 LEAVE FAY CO AT 2817
Length: 3.831 To: 3.831 ENTER CLA CO AT 0000 Scale: 1.00 mile/page



Sheet total equivalent length of solid line: 1.741 Accum. total: 2.675 © 2002 - MasterMind Systems, Inc. - Traffic Safety Suite

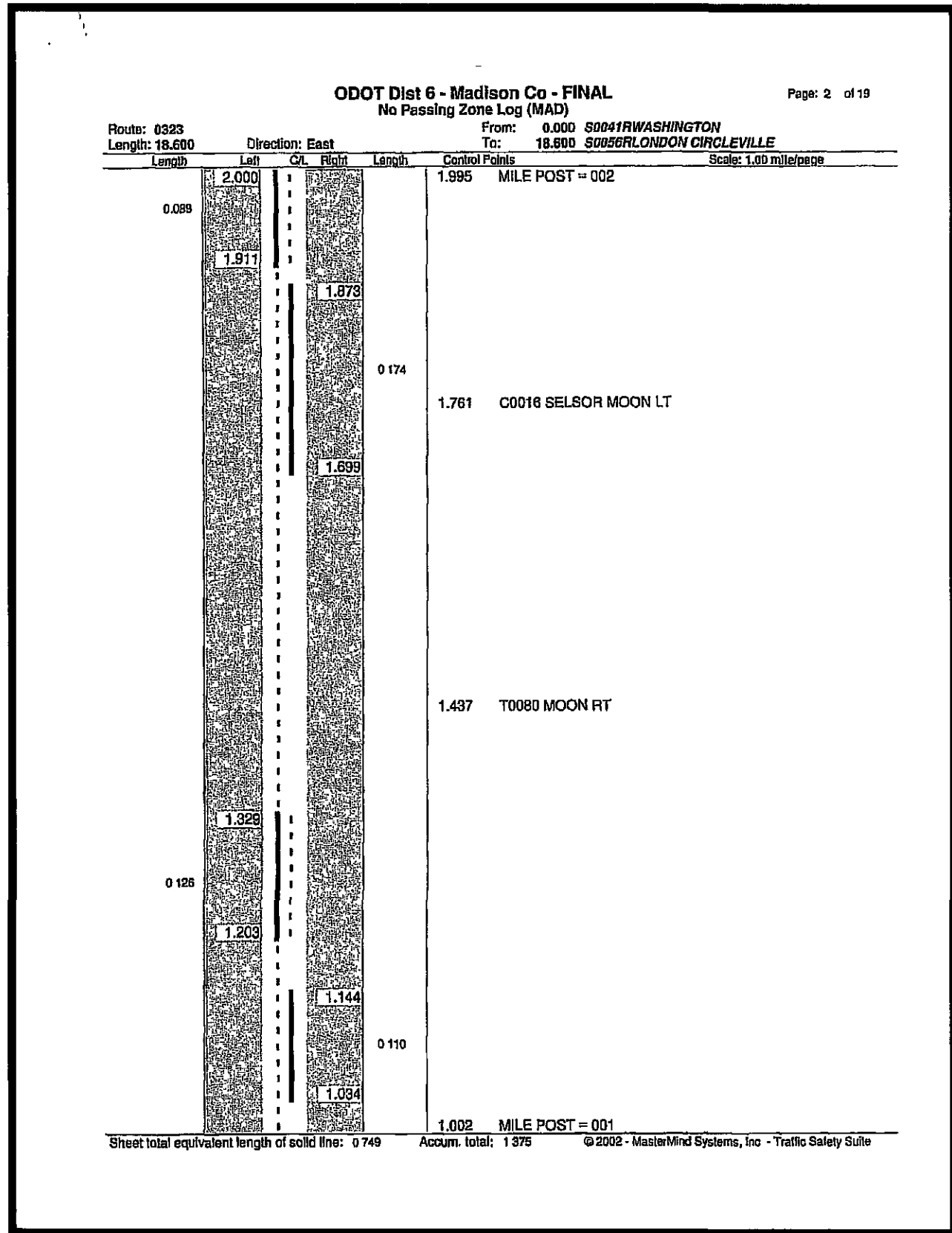
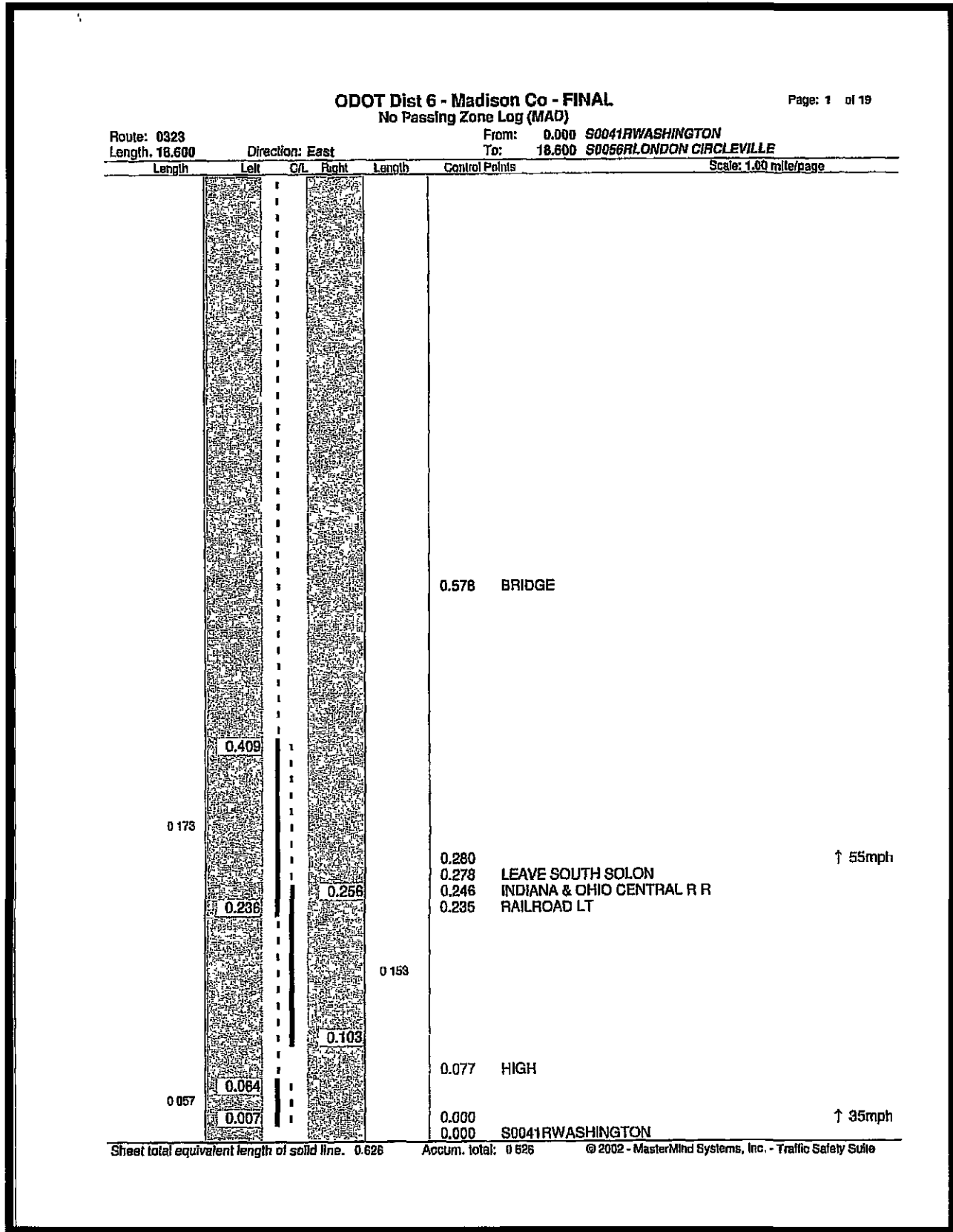
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PAVEMENT MARKING DETAILS

MAD-38-22.81

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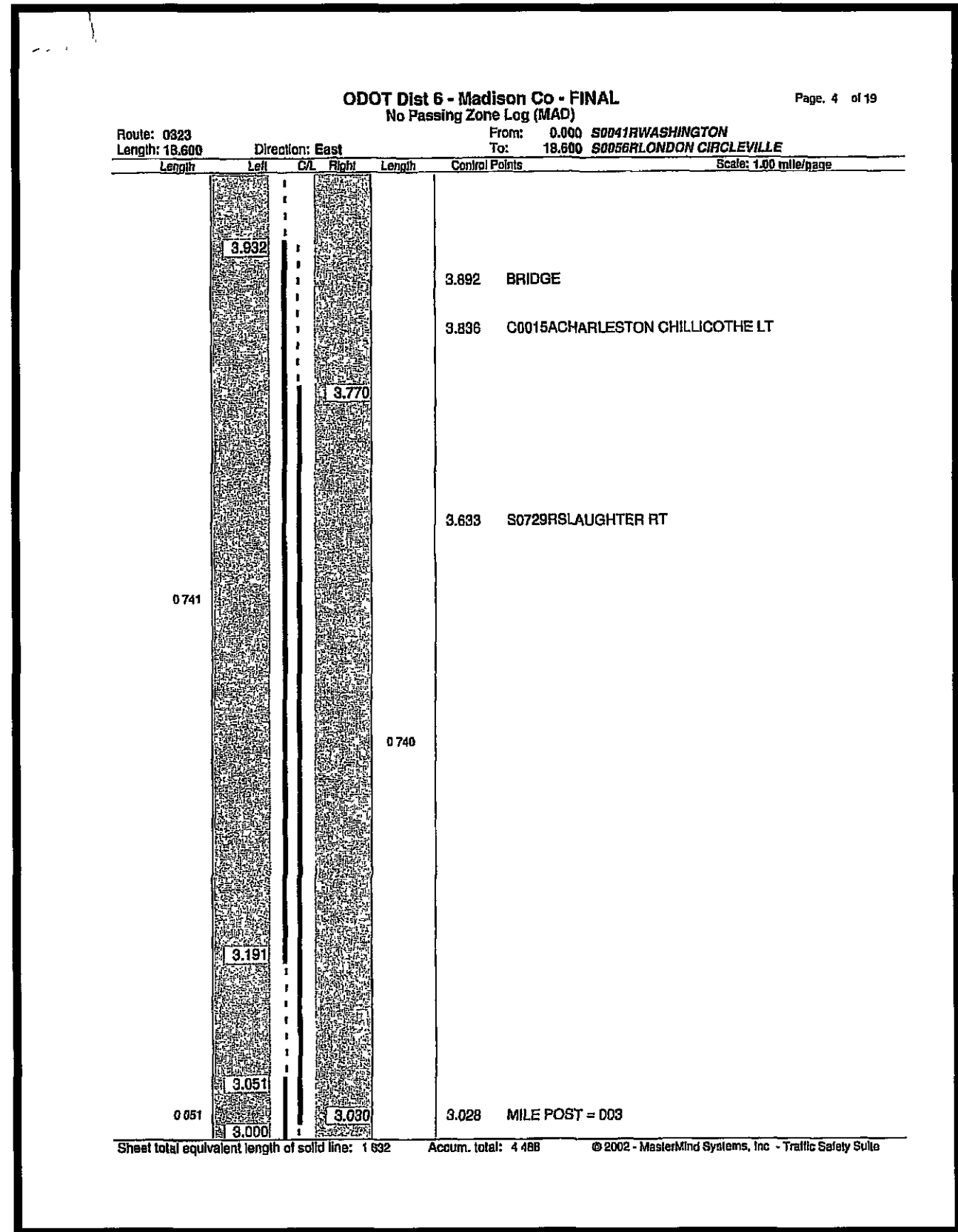
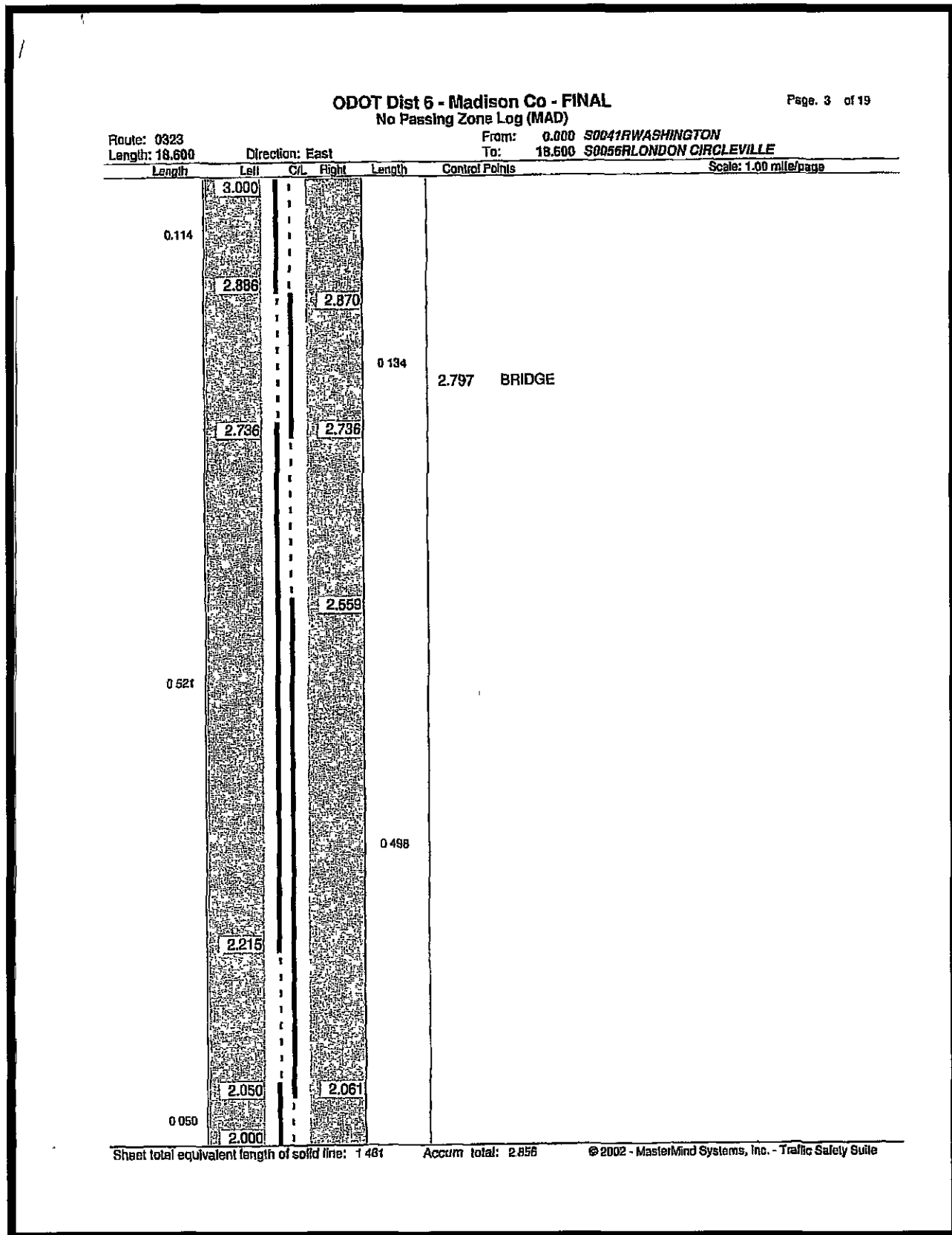


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PAVEMENT MARKING DETAILS

MAD - 38 - 22.81

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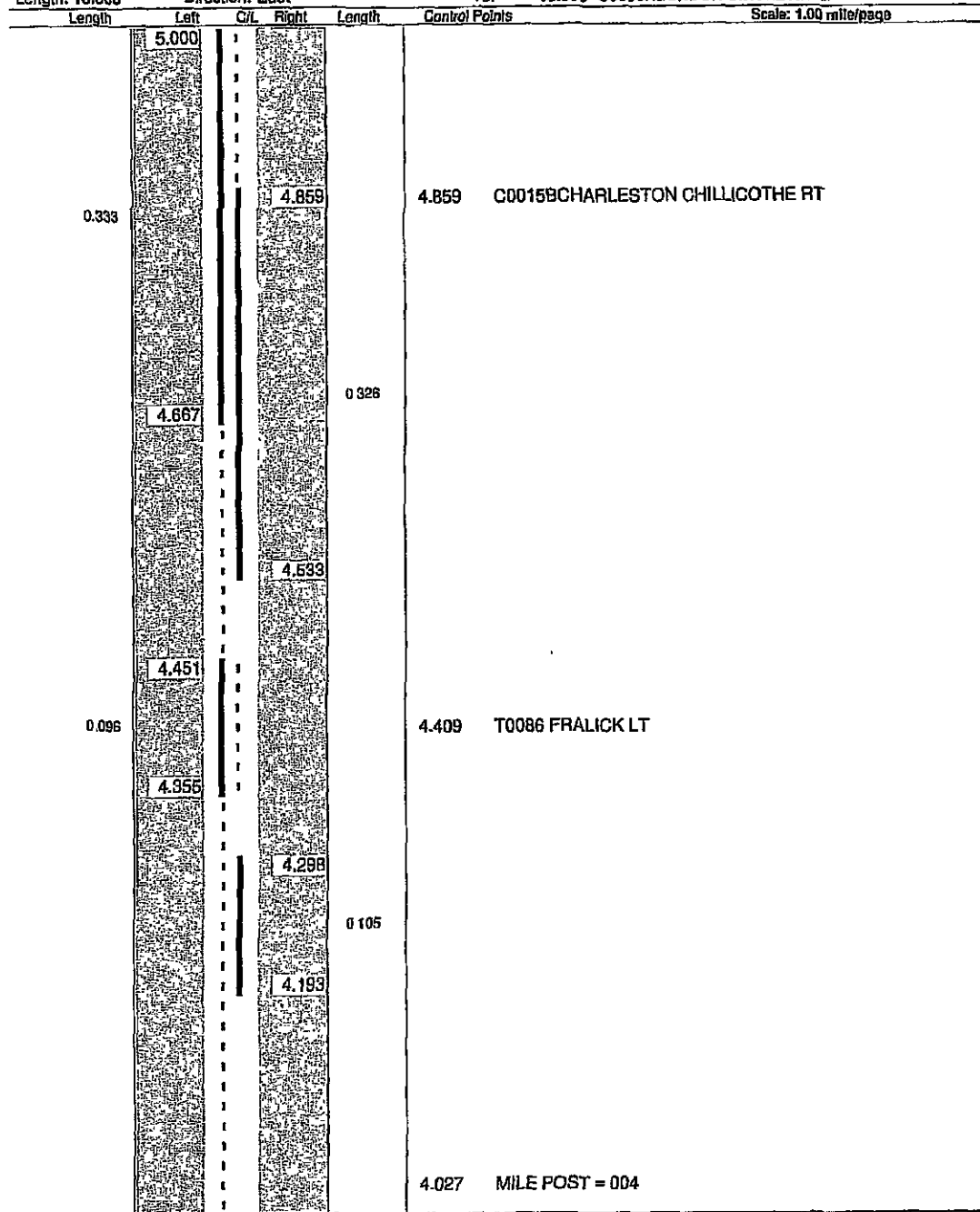
PAVEMENT MARKING DETAILS

MAD - 38 - 22.81

ODOT Dist 6 - Madison Co - FINAL
No Passing Zone Log (MAD)

Page: 5 of 18

Route: 0323 Direction: East From: 0.000 S0041RWASHINGTON
Length: 18.600 To: 18.600 S0056RLONDON CIRCLEVILLE
Scale: 1.00 mile/page

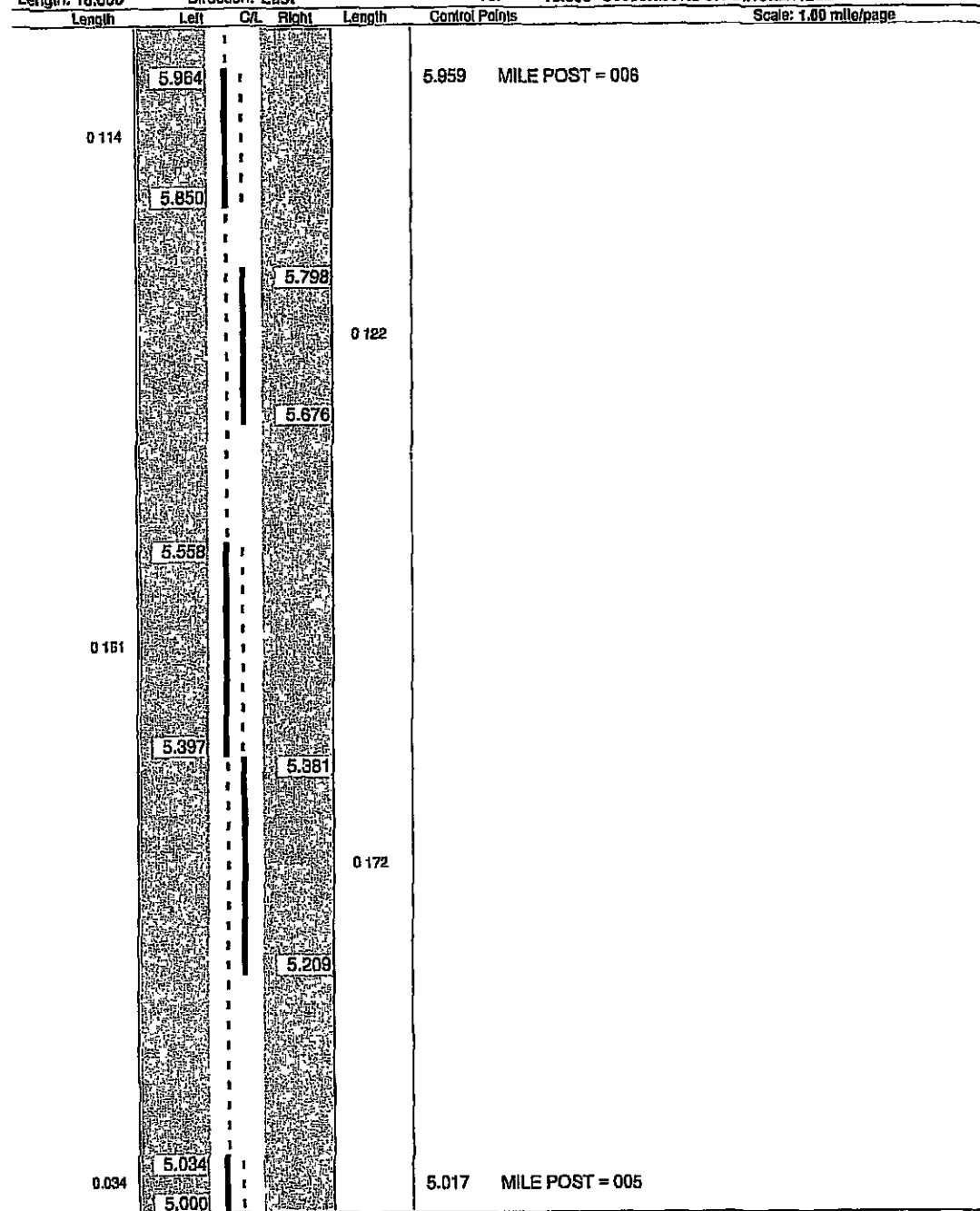


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ODOT Dist 6 - Madison Co - FINAL
No Passing Zone Log (MAD)

Page: 6 of 19

Route: 0323 Direction: East From: 0.000 S0041RWASHINGTON
Length: 18.600 To: 18.600 S0056RLONDON CIRCLEVILLE
Scale: 1.00 mile/page



Sheet total equivalent length of solid line: 0.853 Accum. total: 6.403 © 2002 - MasterMind Systems, Inc - Traffic Safety Suite

PAVEMENT MARKING DETAILS

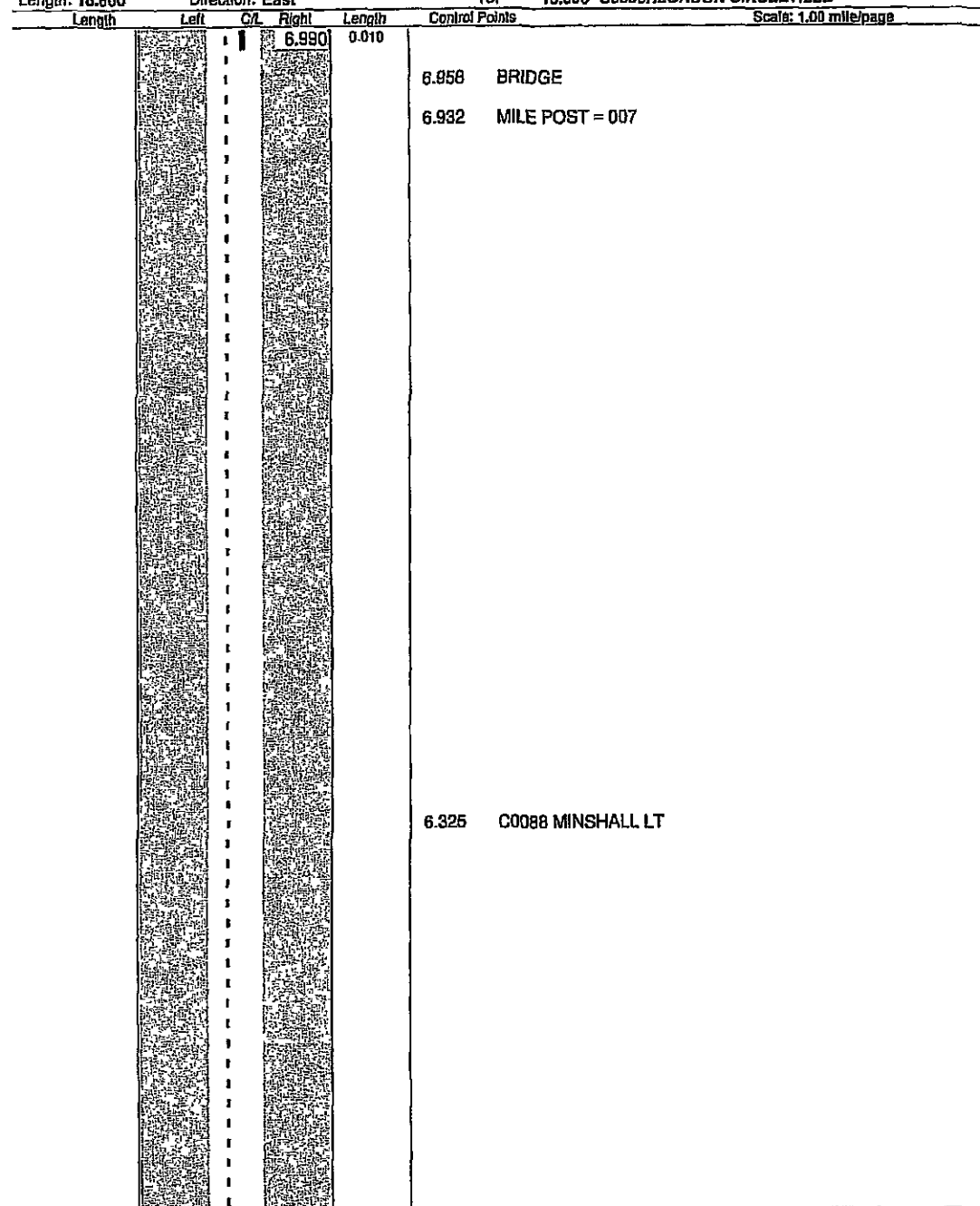
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ODOT Dist 6 - Madison Co - FINAL
No Passing Zone Log (MAD)

Page: 7 of 19

Route: 0323 Direction: East From: 0.000 S0041RWASHINGTON
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 Scale: 1.00 mile/page

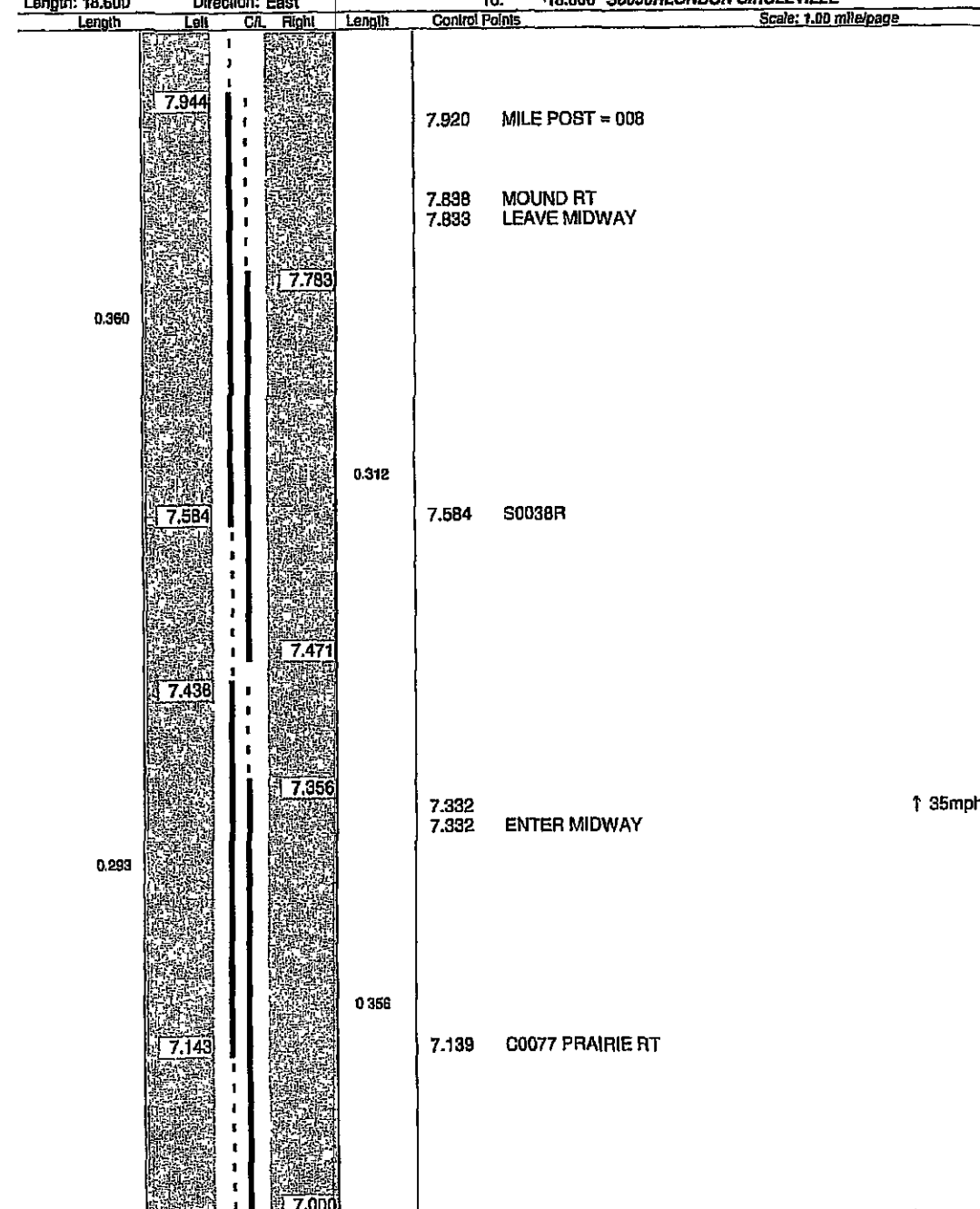


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ODOT Dist 6 - Madison Co - FINAL
No Passing Zone Log (MAD)

Page: 8 of 19

Route: 0323 Direction: East From: 0.000 S0041RWASHINGTON
 Length: 18.600 To: 18.600 S0056RLONDON CIRCLEVILLE
 Scale: 1.00 mile/page



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PAVEMENT MARKING DETAILS

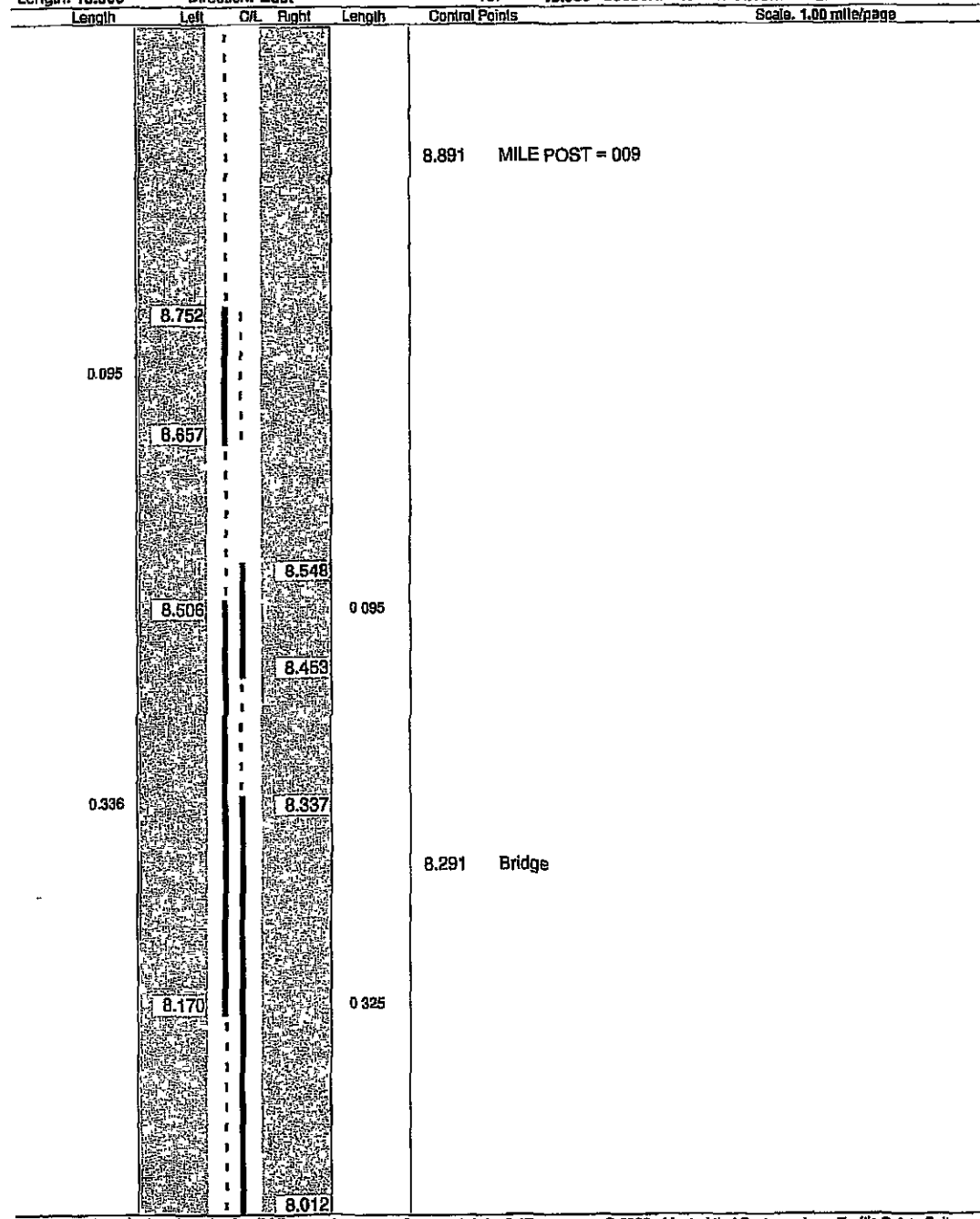
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ODOT Dist 6 - Madison Co - FINAL
No Passing Zone Log (MAD)

Page: 9 of 19

Route: 0323 Direction: East From: 0.000 S0041RWASHINGTON
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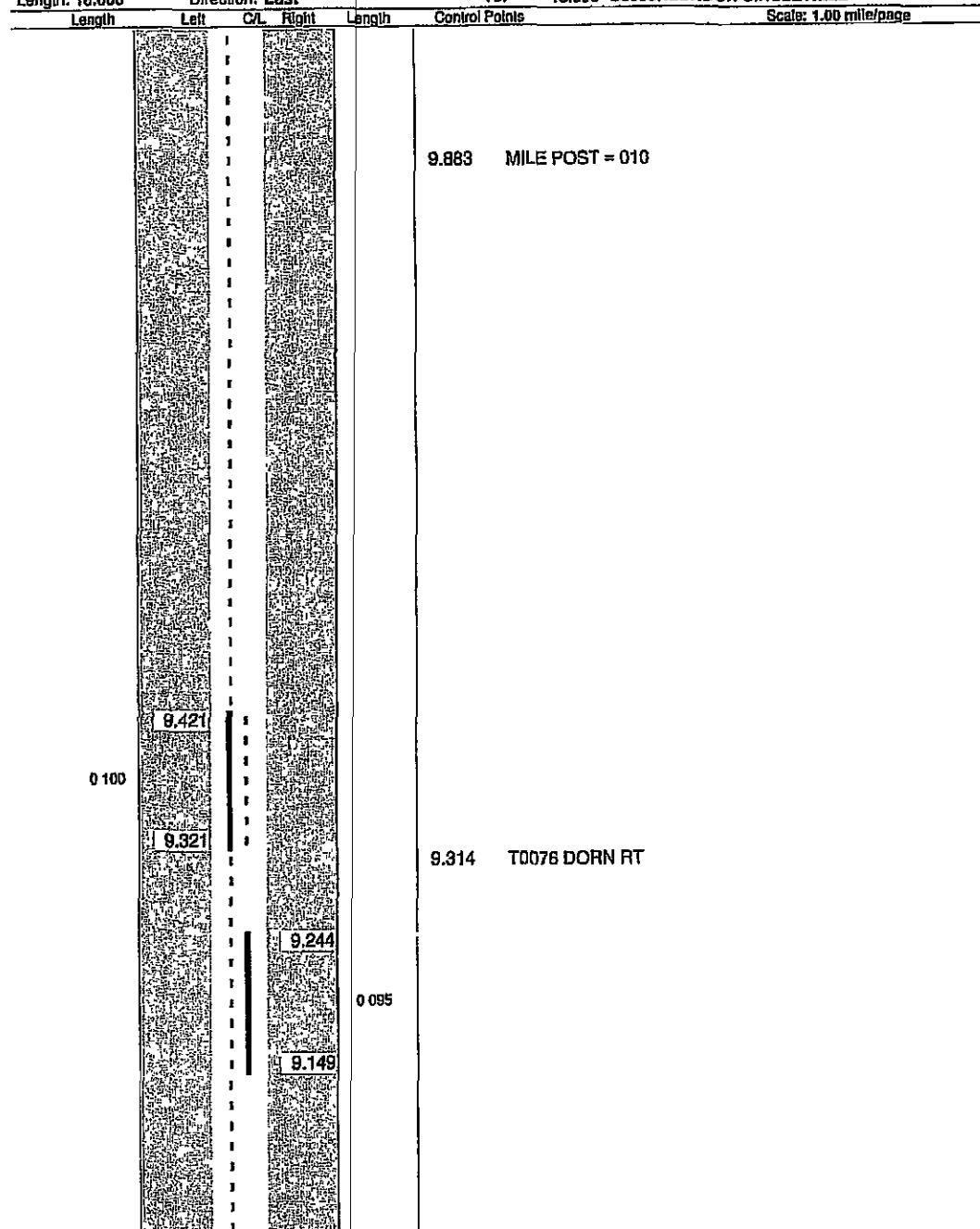


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ODOT Dist 6 - Madison Co - FINAL
No Passing Zone Log (MAD)

Page: 10 of 19

Route: 0323 Direction: East From: 0.000 S0041RWASHINGTON
Length: 18.600 To: 18.600 S0056RLONDON CIRCLEVILLE
Scale: 1.00 mile/page



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PAVEMENT MARKING DETAILS

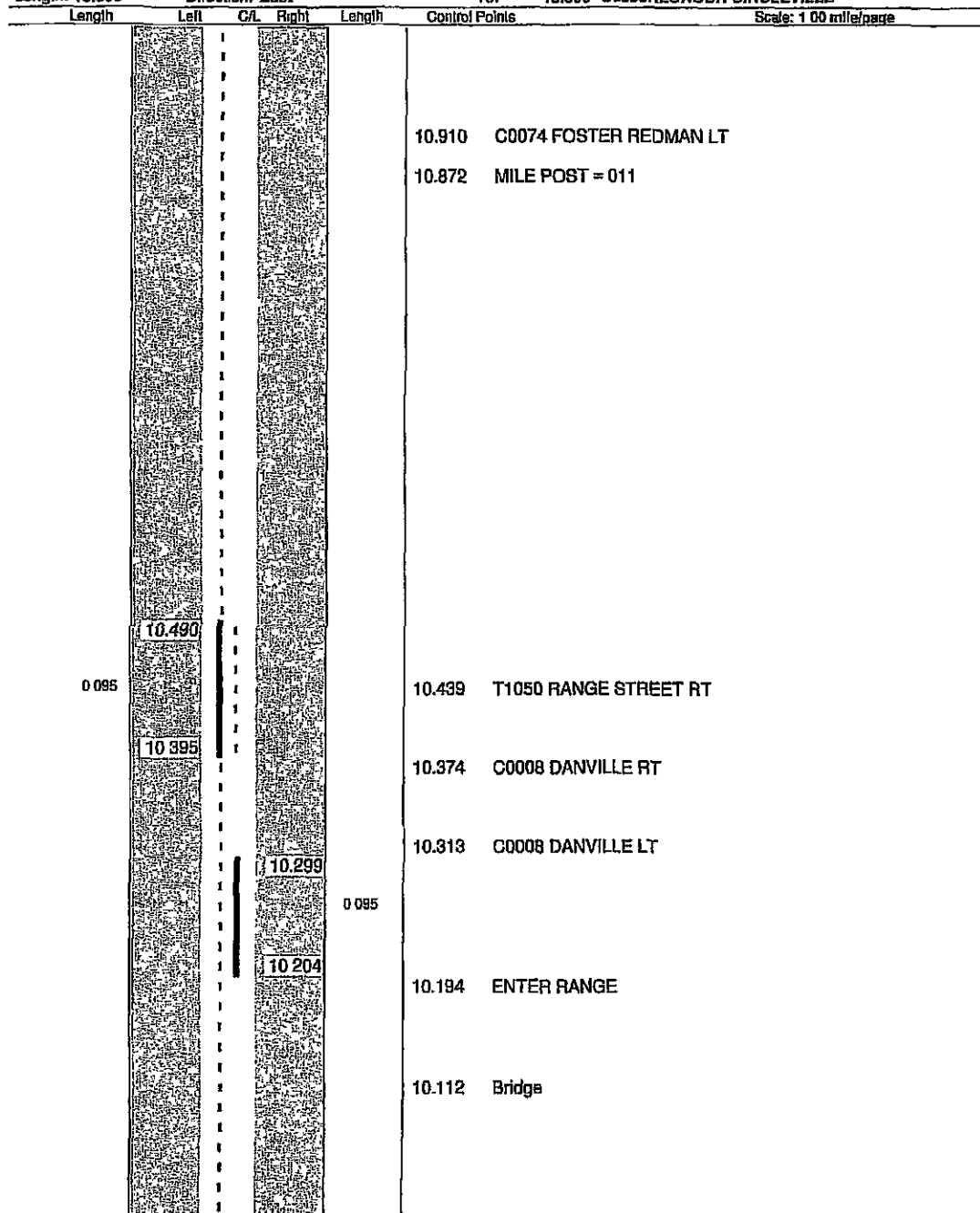
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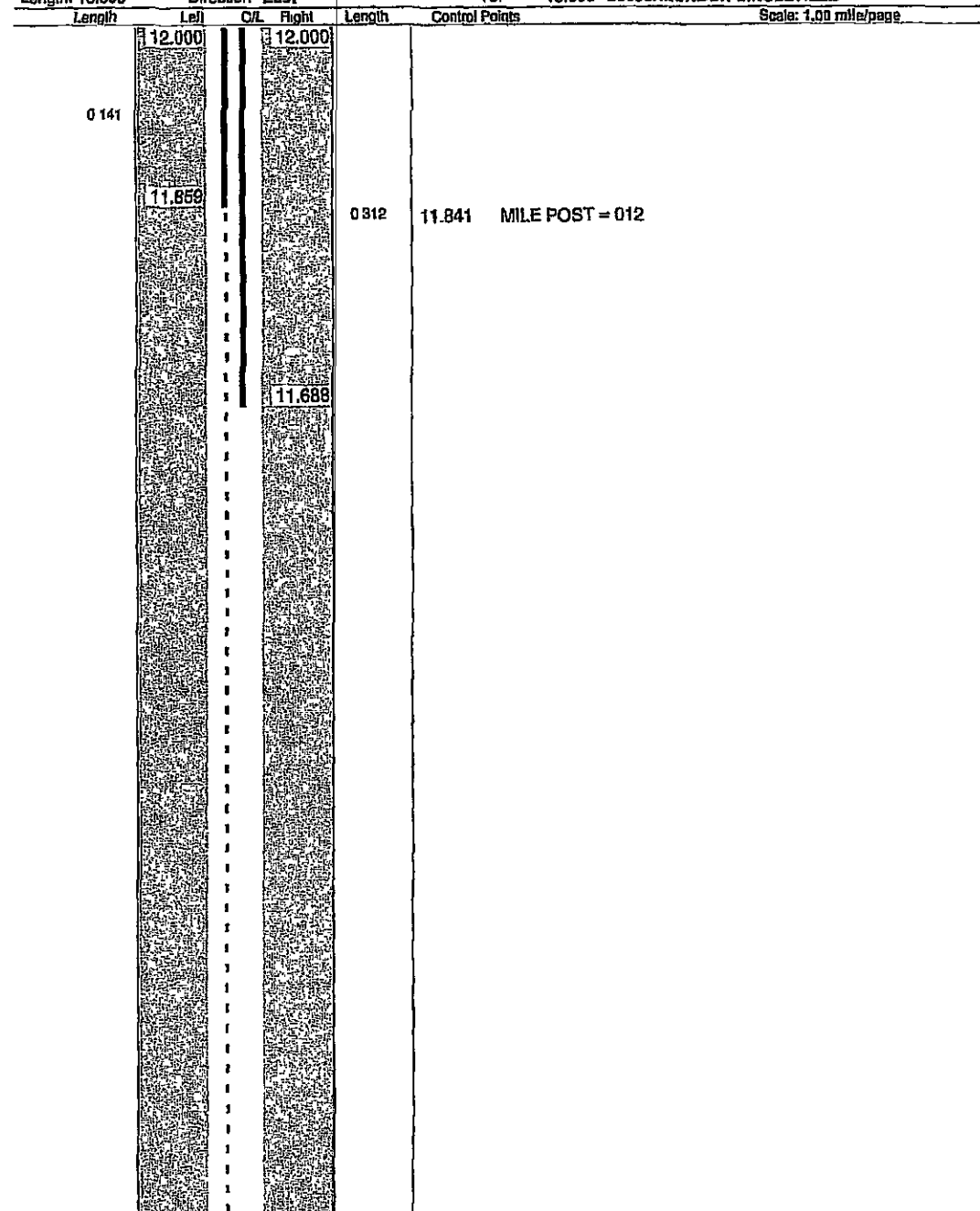
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Scale: 1.00 mile/page



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ODOT Dist 6 - Madison Co - FINAL
No Passing Zone Log (MAD)

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Scale: 1.00 mile/page



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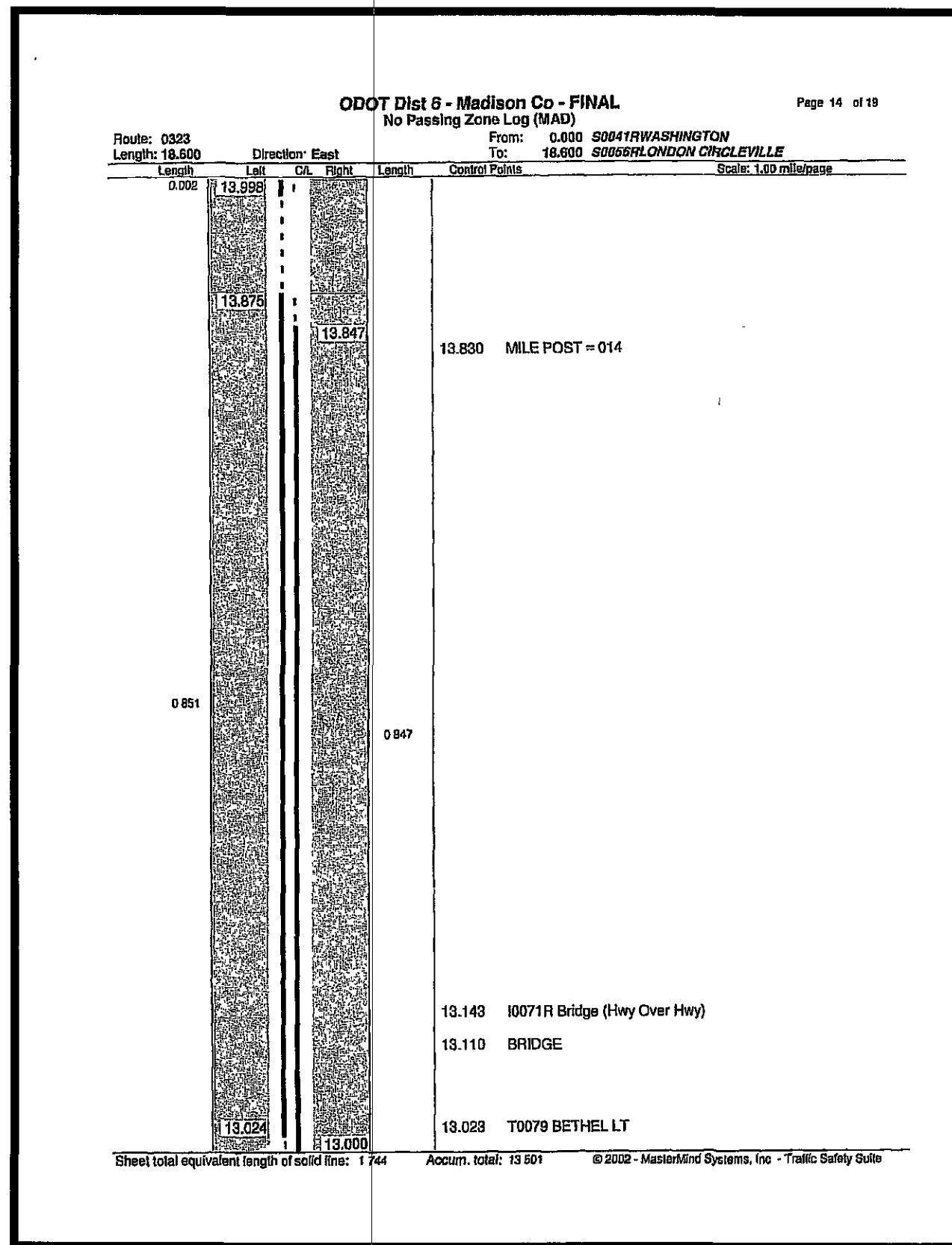
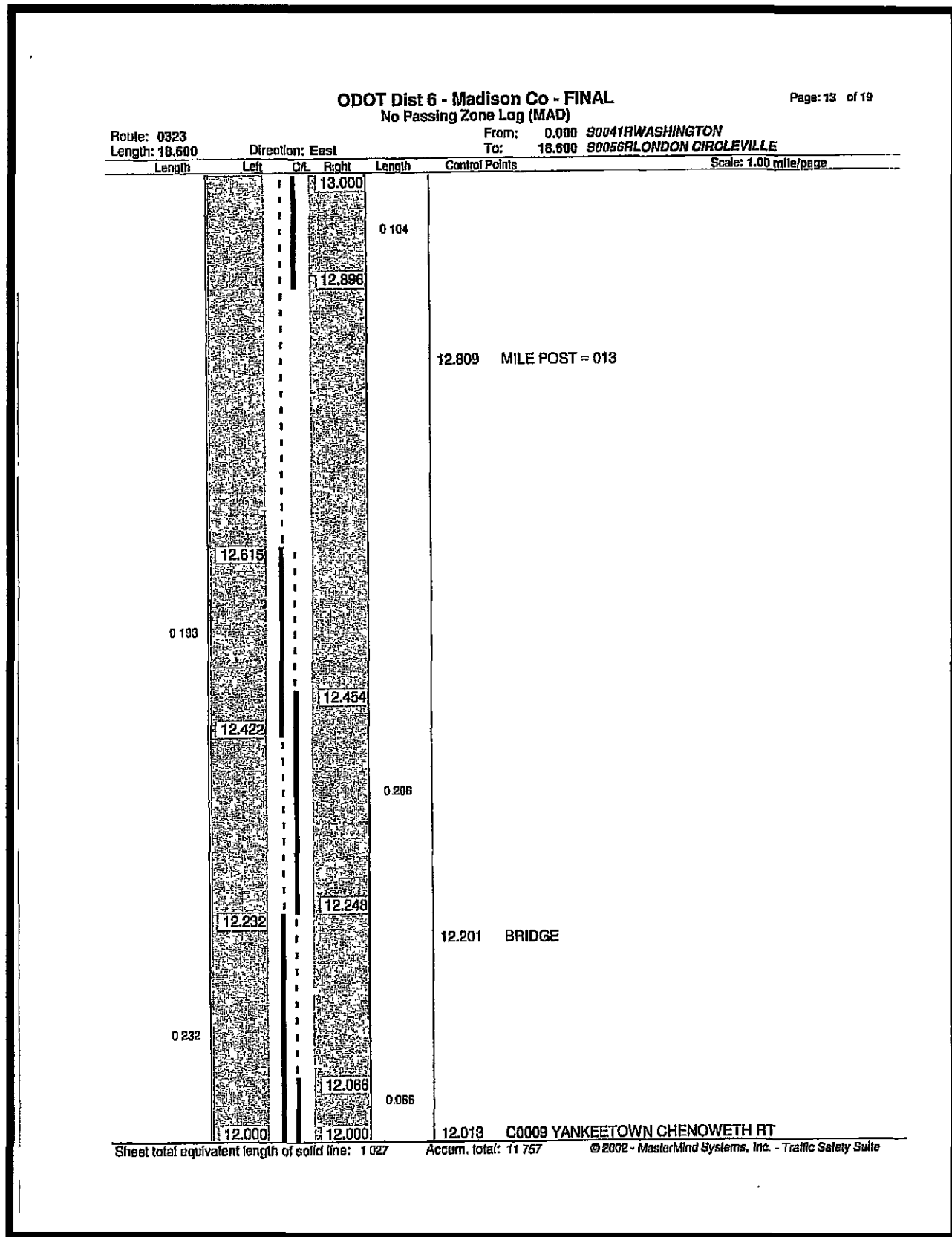
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PAVEMENT MARKING DETAILS

MAD-38-22.81

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PAVEMENT MARKING DETAILS

MAD-38-22.81

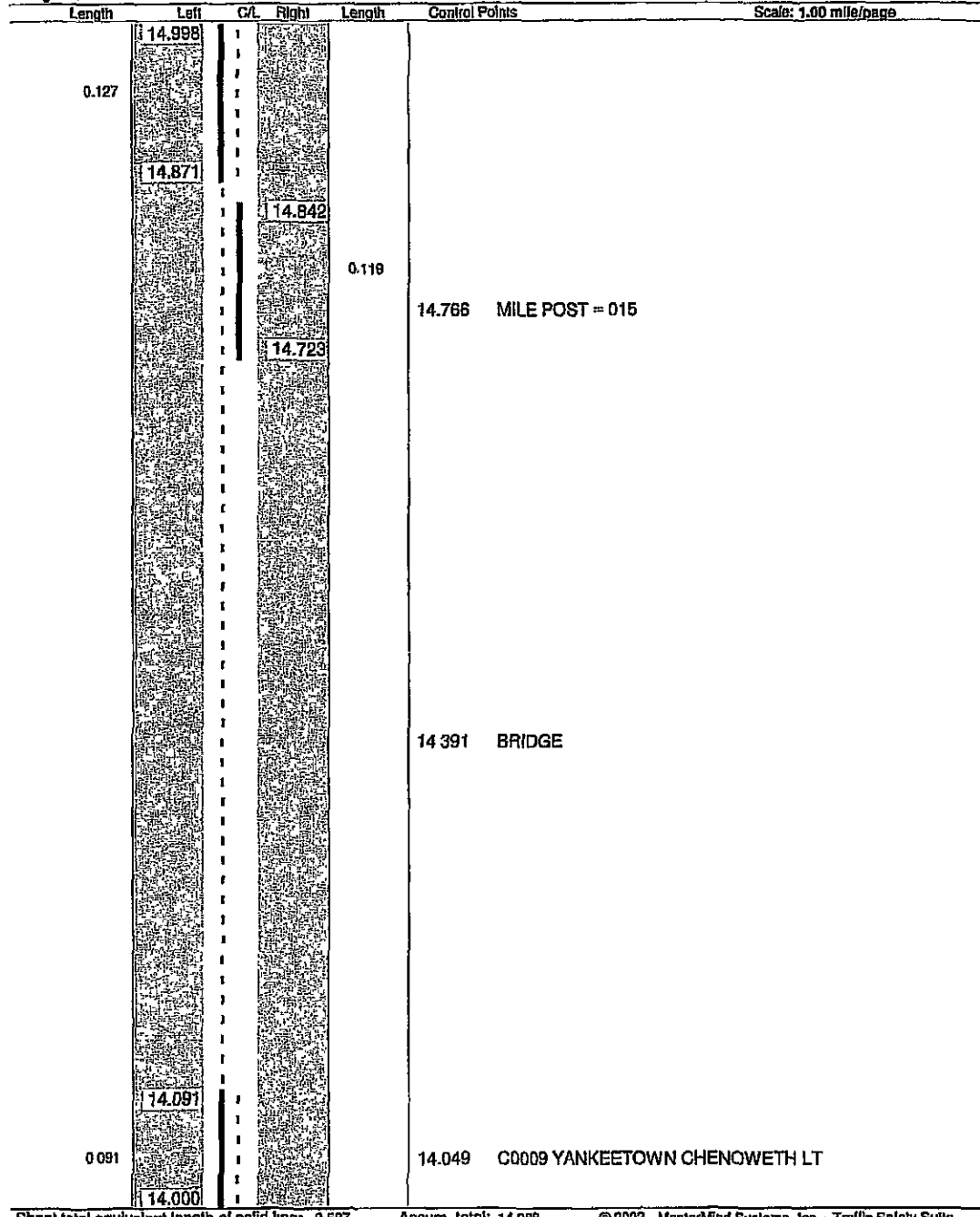
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ODOT Dist 6 - Madison Co - FINAL
No Passing Zone Log (MAD)

Page: 15 of 19

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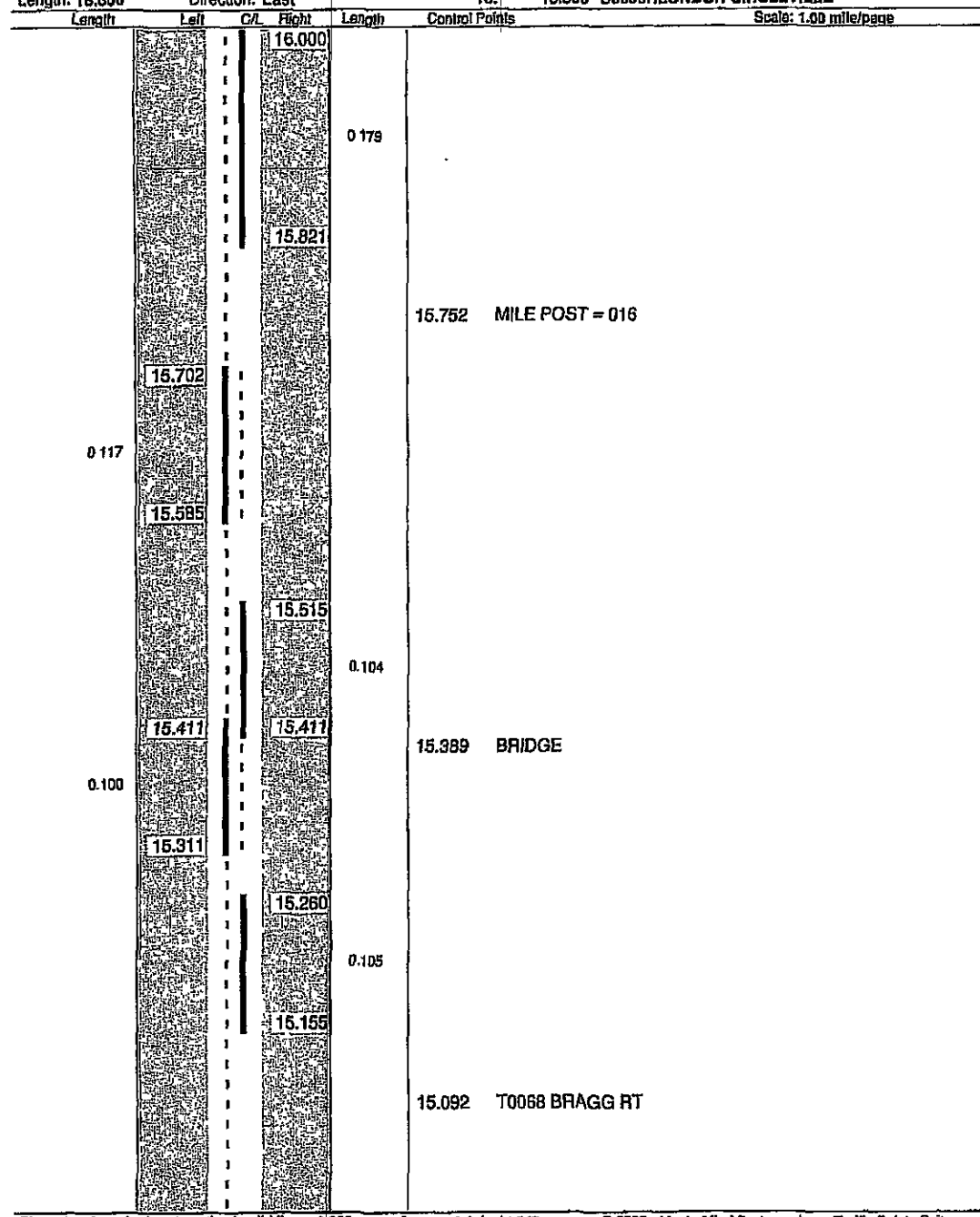


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No Passing Zone Log (MAD)

Page: 16 of 19

Route: 0323 Direction: East From: 0.000 S0041RWASHINGTON
 Length: 18.600 To: 18.600 S0056RLONDON CIRCLEVILLE
 Scale: 1.00 mile/page



Sheet total equivalent length of solid line: 0.855 Accum. total: 14.943 © 2002 - MasterMind Systems, Inc - Traffic Safety Suite

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PAVEMENT MARKING DETAILS

MAD - 38 - 22.81

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