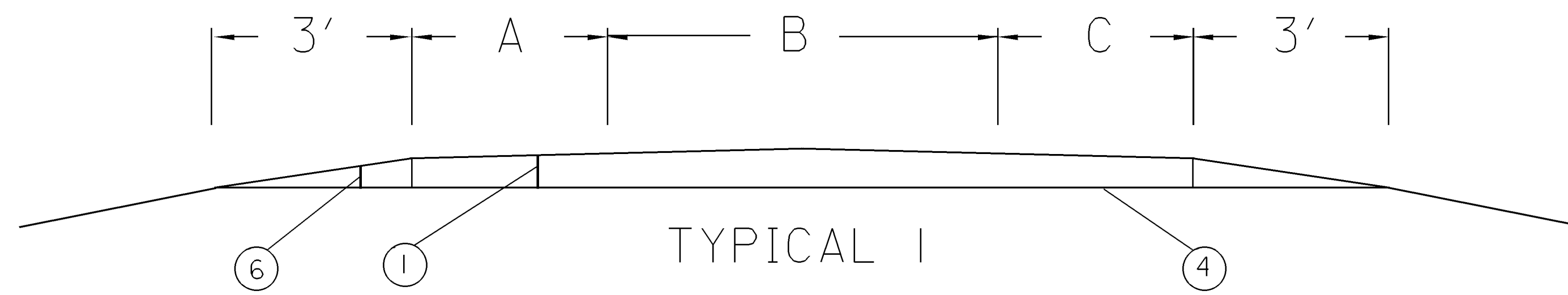
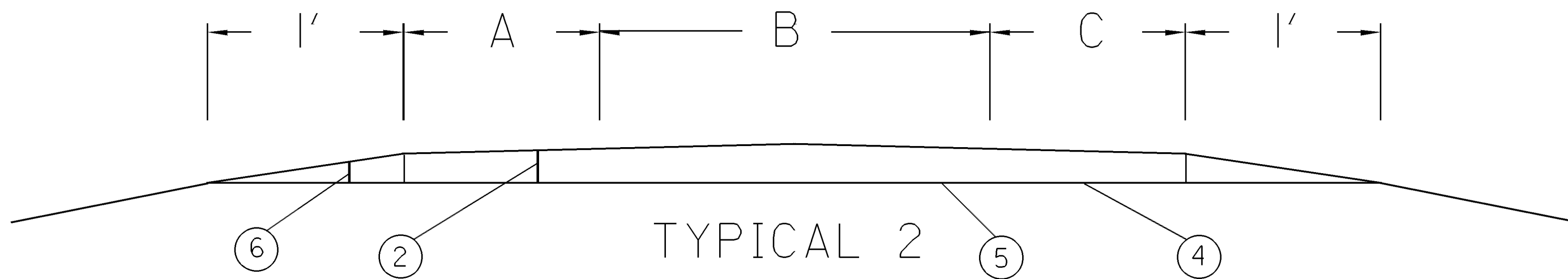




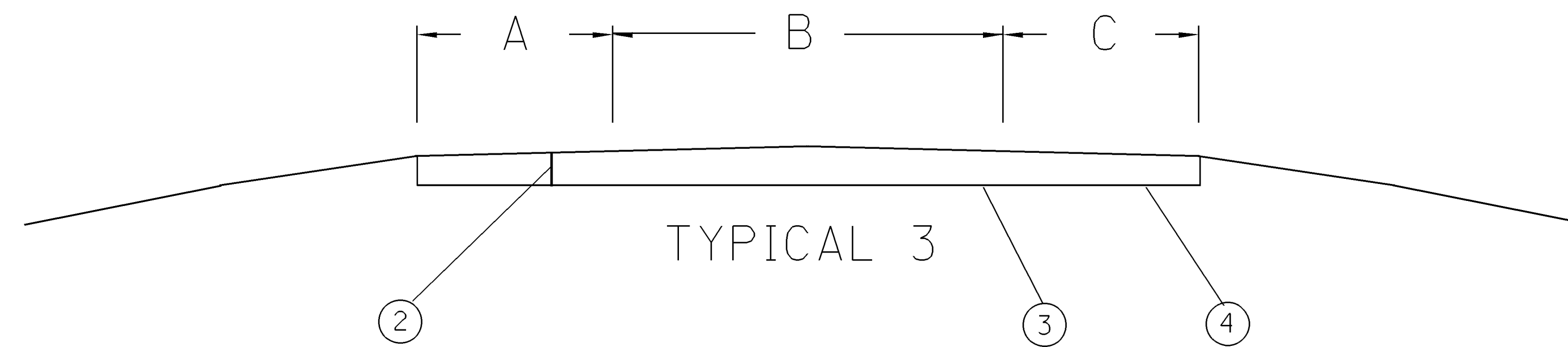
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FRA SR 104  
 STA. 344+78 - STA. 420+82



PIC SR 762  
 SLM 0.00-7.02/7.77-11.18



PIC SR 762  
 SLM 7.02-7.77

LEGEND

- ① 1.5" ITEM 448 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1H
- ② 1.5" ITEM 448 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1,PG64-22
- ③ 1.5" ITEM 254 - PAVEMENT PLANING
- ④ ITEM 407 - TACK COAT
- ⑤ ITEM 422 - SINGLE CHIP SEAL (UNDER SURFACE COURSE)
- ⑥ ITEM 617 - COMPACTED AGGREGATE

NOTE: PROVIDE BUTT JOINTS AT ALL SIDE ROAD

**NOTIFICATION OF TRAFFIC RESTRICTIONS**

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW. THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE BUT IS NOT LIMITED TO ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHOULD LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, DETOUR ROUTES IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

**NOTIFICATION TIME FRAME TABLE**

ITEM	DURATION OF CLOSURE	NOTIFICATION DUE TO DISTRICT 6 COMMUNICATIONS OFFICE
RAMP AND ROAD CLOSURES	>= 2 WEEKS	14 BUSINESS DAYS PRIOR TO CLOSURE
	> 12 HOURS AND < 2 WEEKS	7 BUSINESS DAYS PRIOR TO CLOSURE
	< 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES/RESTRICTIONS	>= 2 WEEKS	7 BUSINESS DAYS PRIOR TO CLOSURE
	< 2 WEEKS	2 BUSINESS DAYS PRIOR TO CLOSURE

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME FRAME TABLE. NO WORK SHALL BE DONE ON S.R. 762 ON ACTIVITIES, THE CONTRACTOR SHALL ADVISE THE DISTRICT OFFICE OF COMMUNICATIONS VIA EMAIL AT D06.PIO@DOT.STATE.OH.US AND THE DISTRICT WORK ZONE TRAFFIC MANAGER VIA EMAIL AT D06.MOT@DOT.STATE.OH.US OF THE ANTICIPATED START DATE OF ANY CONSTRUCTION ACTIVITIES, INCLUDING BUT NOT LIMITED TO THE PLACING OF WORK ZONE SIGNS. THE NOTIFICATION SHALL ALSO INCLUDE THE PROJECT NUMBER, PID, NAME AND PHONE NUMBER OF THE CONTRACTOR, A POINT OF CONTACT AND THE ANTICIPATED IMPACT ON TRAFFIC. THE CONTRACTOR WILL IMMEDIATELY INFORM THE DISTRICT OFFICE OF COMMUNICATIONS AND THE DISTRICT WORK ZONE TRAFFIC MANAGER OF ANY AND ALL DELAYS AND/OR CHANGES REGARDING THE CONSTRUCTION INITIATION DATE. NO WORK SHALL BE DONE AND ALL LANES OPEN TO TRAFFIC DURING THE FOLLOWING EVENTS:  
GREENS HERITAGE DAYS: THE WEEKEND AFTER LABOR DAY. (SEPTEMBER 9-11, 2011)  
THE COMMERCIAL POINT GO-CART RACES. THE END OF JULY THROUGH THE MIDDLE OF AUGUST. ONE WEEKEND ONLY, DEPENDANT ON THE GO-CART CIRCUIT SCHEDULE WHICH COMES OUT AFTER THE FIRST OF THE YEAR.

**GENERAL:**

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 OWNERSHIP:**

THE UTILITIES AND THEIR PERSPECTIVE OWNERS LISTED BELOW MAY BE LOCATED WITHIN THE PROJECT WORK AREAS.

**LOCATION 1**

PAUL PAXTON  
AEP  
850 TECH CENTER DRIVE  
GAHANNA, OH 43230-6605  
614.883.6831

TOM ZIOMEK  
AT&T  
111 NORTH FOURTH STREET - 8TH FLOOR  
COLUMBUS, OH 43215  
614.223.7162

BRYAN KOPACHY (SE)  
COLUMBIA GAS OF OHIO  
3550 JOHNNY APPLESEED COURT  
COLUMBUS, OH 43231  
614.818.2133

FRANKLIN COUNTY ENGINEER'S OFFICE  
970 DUBLIN ROAD  
COLUMBUS, OH 43215  
614.460.3030

TERRY ALLEN  
TIME WARNER CABLE  
3760 INTERCHANGE DRIVE  
COLUMBUS, OH 43204  
614.255.6349/614.348.2994

CITY OF COLUMBUS  
DEPARTMENT OF UTILITIES  
109 NORTH FRONT STREET  
COLUMBUS, OH 43215  
614.645.7393

**LOCATION 2**

PAUL PAXTON  
AEP  
850 TECH CENTER DRIVE  
GAHANNA, OH 43230-6605  
614.883.6831

TOM ZIOMEK  
AT&T  
111 NORTH FOURTH STREET - 8TH FLOOR  
COLUMBUS, OH 43215  
614.223.7162

TIFFANY WOODYARD  
COLUMBIA GAS OF OHIO  
843 PIATT AVENUE  
CHILLICOTHE, OH 45601  
740.772.9131

VERIZON BUSINESS  
DEPT. 42864 LOC 107  
2400 NORTH GLENVILLE  
RICHARDSON, TX 75082  
(FAX) 972.729.6240

AARON SHAMBROCK  
SOUTH CENTRAL POWER COMPANY  
2780 COONPATH ROAD  
LANCASTER, OH 43130  
740.689.6119

DAVE WISNER  
MARATHON PIPE LINE LLC  
539 SOUTH MAIN STREET - ROOM 7642  
FINDLAY, OH 45840-3295  
419.421.2211

MIKE EDWARDS  
FRONTIER COMMUNICATIONS  
500 LANCASTER PIKE  
CIRCLEVILLE, OH 43113  
740.474.7197

PICKAWAY COUNTY ENGINEER'S OFFICE  
207 SOUTH COURT STREET  
CIRCLEVILLE, OH 43113  
740.474.3360

ANTHONY ADAMS  
INSIGHT COMMUNICATIONS  
3770 EAST LIVINGSTON AVENUE  
COLUMBUS, OH 43227  
614.338.7069

**UNDERGROUND UTILITIES:**

IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE ANY UNDERGROUND UTILITIES MARKED.

OHIO UTILITY PROTECTION SERVICE 1-800-362-2764  
NON-MEMBERS MUST BE CALLED DIRECTLY.

**ALIGNMENT AND PROFILE:**

THE WORK PROPOSED BY THIS PROJECT IS FOR THE RESURFACING OF THE EXISTING PAVEMENT. THE ALIGNMENT OF THE EXISTING PAVEMENT WILL NOT BE CHANGED, AND THE PROFILE OF THE PROPOSED SURFACE WILL BE SIMILAR TO THAT OF THE EXISTING PAVEMENT EXCEPT THAT IT MAY BE RAISED AN AMOUNT EQUAL TO THE THICKNESS OF THE RESURFACING COURSE OR COURSES SPECIFIED IN THESE PLANS.

**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 OR SIX FEET BEHIND GUARDRAIL WITH A MINIMUM OF 125 FEET OF GUARDRAIL PRECEDING THE EQUIPMENT. 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.

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GENERAL NOTES

FRA-104-6.53

**ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR, AS PER PLAN:**  
 REPAIRS SHALL CONSIST OF REMOVING 4" OF PAVEMENT AND PLACING 4" OF ITEM 301 - ASPHALT CONCRETE BASE, PG64-22 FOR AN AVERAGE WIDTH OF 4'. WORK SHALL BE PERFORMED PRIOR TO RESURFACING AND REPAIR AREAS ARE TO BE INCLUDED INTO GENERAL RESURFACING. THE QUANTITY SHOWN ALLOWS FOR AREAS SHOWN IN THE TABLE BELOW, AS WELL AS CONTINGENCY AREAS AS DIRECTED BY THE ENGINEER.

**LOCATION 2**

DIRECTION	BLOG	ELOG	LENGTH OF REPAIR (FT.)	WIDTH OF REPAIR (FT.)	AREA OF REPAIR (S.F.)	AREA OF REPAIR (S.Y.)
EB edge	0.00	0.03	158	4	634	70
EB edge	0.11	0.18	370	4	1478	164
EB edge	0.52	0.62	528	4	2112	235
EB edge	1.10	1.22	634	4	2534	282
EB edge	1.92	2.25	1742	4	6970	774
EB edge	2.49	2.62	686	4	2746	305
EB edge	2.75	2.89	739	4	2957	329
EB edge	3.76	3.88	634	4	2534	282
EB edge	4.75	5.03	1478	4	5914	657
EB edge	5.21	5.78	3010	4	12038	1338
EB edge	5.87	6.02	792	4	3168	352
EB edge	6.10	6.74	3379	4	13517	1502
EB edge	7.83	7.87	211	4	845	94
EB edge	7.92	7.96	211	4	845	94
EB edge	8.85	8.88	158	4	634	70
EB edge	9.59	9.71	634	4	2534	282
EB edge	9.84	9.90	317	4	1267	141
EB edge	10.70	11.15	2376	6	14256	1584
WB edge	0.55	0.78	1214	4	4858	540
WB edge	0.98	1.01	158	8	1267	141
WB edge	1.45	1.55	528	4	2112	235
WB edge	2.82	2.95	686	4	2746	305
WB edge	3.01	3.05	211	4	845	94
WB edge	3.76	3.81	264	4	1056	117
WB edge	4.07	4.10	158	4	634	70
WB edge	4.31	4.37	317	4	1267	141
WB edge	5.28	5.44	845	4	3379	375
WB edge	5.65	5.81	845	4	3379	375
WB edge	5.95	6.09	739	4	2957	329
WB edge	6.41	6.59	950	4	3802	422
WB edge	6.64	6.66	106	4	422	47
WB edge	6.78	7.02	1267	4	5069	563
WB edge	7.64	7.75	581	6	3485	387
WB edge	7.90	8.77	4594	4	18374	2042
WB edge	9.62	9.73	581	4	2323	258
WB edge	10.03	10.06	158	4	634	70
WB edge	10.88	11.12	1267	4	5069	563

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ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR, AS PER PLAN = 18800 S.Y.

**ITEM 407 - TACK COAT:**

THE TACK COAT OPERATION SHALL BE AS DETERMINED AT A PRE-CONSTRUCTION CONFERENCE AS PER 407.06 AND APPLICATION RATES SHALL NOT EXCEED 0.075 GALLONS PER SQUARE YARD.

**ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE:**

THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR ANY AND ALL DAMAGE THAT MAY RESULT FROM THE PLANING OPERATION. PLANED PAVEMENT SHALL NOT BE EXPOSED TO TRAFFIC FOR MORE THAN 5 DAYS PRIOR TO PLACEMENT ITEM 448 - ASPHALT CONCRETE SURFACE COURSES. GREAT CARE SHALL BE TAKEN TO MAINTAIN THE EXISTING PAVEMENT CROWN DURING THE PLANING OPERATION.

**ITEM 614 - WORK ZONE MARKING SIGN:**

LOCATION 1: FRA S.R. 104:

THE FOLLOWING QUANTITIES HAVE BEEN PROVIDED:

OW-167-36 "NO EDGE LINES" = 10 EACH  
 R4-1-36 "DO NOT PASS" = 11 EACH  
 ITEM 614 - WORK ZONE MARKINGS SIGN = 21 EACH

LOCATION 2: PIC S.R. 762:

THE FOLLOWING QUANTITIES HAVE BEEN PROVIDED:

OW-167-36 "NO EDGE LINES" = 30 EACH  
 R4-1-36 "DO NOT PASS" = 20 EACH  
 ITEM 614 - WORK ZONE MARKINGS SIGN = 50 EACH

TOTALS:

ITEM 614 - WORK ZONE MARKING SIGN: = 71 EACH

**ITEM 614 - WORK ZONE CENTER LINE, CLASS II:**

THE FOLLOWING QUANTITY HAS BEEN PROVIDED:

LOCATION 1: FRA S.R. 104:

SLM 6.53 - 7.19 MI. X 2 APPLICATION = 1.32 MI. (UUP)  
 SLM 7.19 - 7.28 MI. X 2 APPLICATION = 0.18 MI. (UGP)  
 SLM 7.28 - 7.81 MI. X 2 APPLICATION = 1.06 MI. (UUP)

ITEM 614 - WORK ZONE CENTER LINE, CLASS II: = 2.56 MI.

LOCATION 2: PIC S.R. 762:

SLM 0.00 - 7.02 MI. X 1 APPLICATION = 7.02 MI. (RGP)  
 SLM 7.02 - 7.77 MI. X 2 APPLICATION = 1.50 MI. (RGP)  
 SLM 7.77 - 11.18 MI. X 1 APPLICATION = 4.03 MI. (RGP)

ITEM 614 - WORK ZONE CENTER LINE, CLASS II: = 12.55 MI.

TOTALS:

ITEM 614 - WORK ZONE CENTER LINE, CLASS II: = 15.11 MI.

**ITEM 614 - MAINTAINING TRAFFIC:**

A MINIMUM OF ONE LANE OF TRAFFIC SHALL BE MAINTAINED IN EACH DIRECTION. FOR PAVING WORK AT THE I-71/SR-104/FRANK ROAD INTERCHANGE THE CONTRACTOR SHALL CLOSE THE I-71 NB RAMP TO SR-104 AND SET-UP DETOUR AS SHOWN ON SHEET 5/40. THE RAMP MAY BE CLOSED DAILY FROM 9:00 PM - 5:00 AM. COSTS TO MAINTAIN TRAFFIC SHALL BE INCLUDED WITH:

ITEM 614 - MAINTAINING TRAFFIC = LUMP SUM

**ITEM 619 - FIELD OFFICE, TYPE A**

UNDER THIS ITEM, THE CONTRACTOR SHALL PROVIDE A FIELD OFFICE MEETING ALL REQUIREMENTS OF ITEM 619 - FIELD OFFICE, TYPE A. THE FOLLOWING QUANTITY HAS BEEN PROVIDED:

ITEM 619 - FIELD OFFICE, TYPE A = 2 MONTHS

**ITEM 632 - LOOP DETECTOR:**

**ITEM 632 - LOOP DETECTOR TIE IN:**

THIS ITEM OF WORK SHALL REPLACE ALL PLANED LOOP DETECTORS. FOR THE EXACT LOCATION AND TYPE OF LOOP DETECTORS THE CONTRACTOR SHALL CALL THE OHIO DEPARTMENT OF TRANSPORTATION (740-833-8266) AT OR BEFORE THE PRE-CON.

**LOCATION 2 (INTERSECTIONS AT US-62/3 AND SR-762 AND US-23 AND SR-762):**

ITEM 632 - LOOP DETECTOR = 2 EACH  
 ITEM 632 - LOOP DETECTOR TIE IN = 2 EACH  
 TOTAL:  
 ITEM 632 - LOOP DETECTOR = 2 EACH  
 ITEM 632 - LOOP DETECTOR TIE IN = 2 EACH

**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 AND THROUGHOUT THE LENGTH OF ALL RAMPS. 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 SHALL BE FULL COMPENSATION FOR ALL SERVICES, MATERIALS, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS, INCLUDING THE REMOVAL, NECESSARY TO COMPLETE THIS ITEM.

**PAVEMENT MARKING:**

THE LOCATIONS, SIZES AND SHAPES OF PROPOSED PAVEMENT MARKINGS WILL BE THE SAME AS EXISTING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION, SIZE AND SHAPE OF THE EXISTING PAVEMENT MARKINGS BEFORE THE PAVEMENT PLANING AND RESURFACING OBLITERATES THEM. ANY PAVEMENT MARKING WHICH IS PLACED AT THE WRONG LOCATION SHALL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

**TRAFFIC CONTROL FOR LONG LINE PAVEMENT MARKING OPERATIONS AS PER PLAN:**

TRAFFIC CONTROL FOR ALL 740.02, TYPE 1, "2 MIN OR LESS DRY TIME" TRAFFIC PAINT SHALL BE THE SAME AS 740.02, TYPE 1 "LONGER THAN 2 MIN DRY" TRAFFIC PAINT. IN ADDITION TO THE REQUIREMENTS IN 614.12 AND SCD MT-99.20M THE CONTRACTOR SHALL PROTECT ALL 740.02, TYPE 1 (REGARDLESS OF DRY TIME) CENTER LINE, EDGE LINE AND CHANNELIZING LINE TRAFFIC PAINT MARKINGS WITH CONES AND WET PAINT SIGNS AND LANE LINE TRAFFIC PAINT MARKINGS WITH LANE CLOSURES, CONES AND WET PAINT SIGNS.

PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE 642 PRICE PER MILE FOR CENTER LINE, EDGE LINE, CHANNELIZING LINE AND LANE LINE MARKINGS."

**ENVIRONMENTAL COMMITMENTS:**

1. 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 NOT BE DISPOSED OF WITHIN A 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 (E.G. 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.

2. THE WORK ASSOCIATED WITH THIS PROJECT IS BEING PERFORMED WITHIN SEVERAL SOURCE WATER PROTECTION AREAS. IT IS ESSENTIAL THAT ALL ACTIVITIES ASSOCIATED WITH THIS WORK BE PERFORMED IN A MANNER CONSISTENT WITH BEST WATERSHED MANAGEMENT PRACTICES INCLUDING, BUT NOT LIMITED TO: AREAS OF DISTURBED GROUND SHALL HAVE APPROPRIATE EROSION AND SEDIMENT CONTROLS. IF HAZARDOUS/TOXIC MATERIALS INCLUDING BUT NOT LIMITED TO FUELS, OILS, BITUMEN'S PAINTS, SEALANTS, OR OTHER CHEMICALS, ARE STORED ON SITE, THEY SHALL BE STORED IN A DOUBLE-CONTAINMENT MANNER. ALL EQUIPMENT REPAIRS, MAINTENANCE, AND MECHANICAL WORK THAT COULD RESULT IN THE RELEASE OF HAZARDOUS/TOXIC MATERIALS SHALL BE PERFORMED IN AN APPROPRIATELY CONTAINED AREA, PREFERABLY OFF SITE OR AN APPROPRIATE OFF-SITE FACILITY. IN THE EVENT THAT ANY HAZARDOUS/TOXIC MATERIALS INCLUDING, BUT NOT LIMITED TO FUELS, OILS, BITUMEN'S PAINTS, SEALANTS, OR OTHER CHEMICALS ARE SPILLED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY EMERGENCY SERVICES BY CALLING 911 AND THE OHIO EPA @ (800) 282-9378. THE CONTRACTOR SHOULD BE PREPARED TO PROVIDE DETAILED INFORMATION RELATIVE TO THE TYPE AND QUANTITY OF MATERIAL THAT HAS BEEN SPILLED AS WELL AS THE EXACT LOCATION AND THE EXACT TIME AT WHICH THE SPILL OCCURRED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR INFORMING ALL SUBCONTRACTORS AND OTHER AGENTS OF THESE RESPONSIBILITIES, PRECAUTIONS, AND PROHIBITIONS.

**ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN**  
 THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A CHANGEABLE MESSAGE SIGN, ON SITE, FOR THE DURATION OF THE PROJECT. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS MAINTAINED BY THE DIRECTOR (OFFICE OF MATERIALSMANAGEMENT). THE APPROVED LIST OF PORTABLE CHANGEABLE MESSAGE SIGNS CAN BE FOUND ON THE ODOT WEBSITE BY CLICKING ON THE SERVICES MENU, THEN CLICKING ON MATERIALS MANAGEMENT. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 650 FT. AND 475 FT., RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. PCMS TRAILERS SHALL BE DELINEATED ON A PERMANENT BASIS BY AFFIXING CONSPICUITY TAPE CONFORMING TO CMS 614.03, IN A CONTINUOUS LINE ON THE FACE OF THE TRAILER AS SEEN BY ONCOMING ROAD USERS.

THE PROBABLE PCMS LOCATIONS AND WORK LIMITS FOR THOSE LOCATIONS ARE SHOWN ON SHEET 5/40 OF THE PLAN. PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED, FACING AWAY FROM ALL TRAFFIC, AND SHALL DISPLAY ONE OR MORE TYPE G YELLOW RETROREFLECTIVE SHEETING SURFACES OF 9-INCH BY 15-INCH MINIMUM SIZE FACING TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ODOT PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT, AND TO REVISE SIGN MESSAGES, IF NECESSARY.

THE CONTRACTOR SHALL IMPLEMENT A SYSTEM WHEREBY CHANGEABLE MESSAGES WILL BE IMPLEMENTED WITHIN 2 HOURS FOLLOWING TELEPHONE NOTIFICATION FROM THE PROJECT ENGINEER TO A DESIGNATED PHONE.

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PRE-PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE.

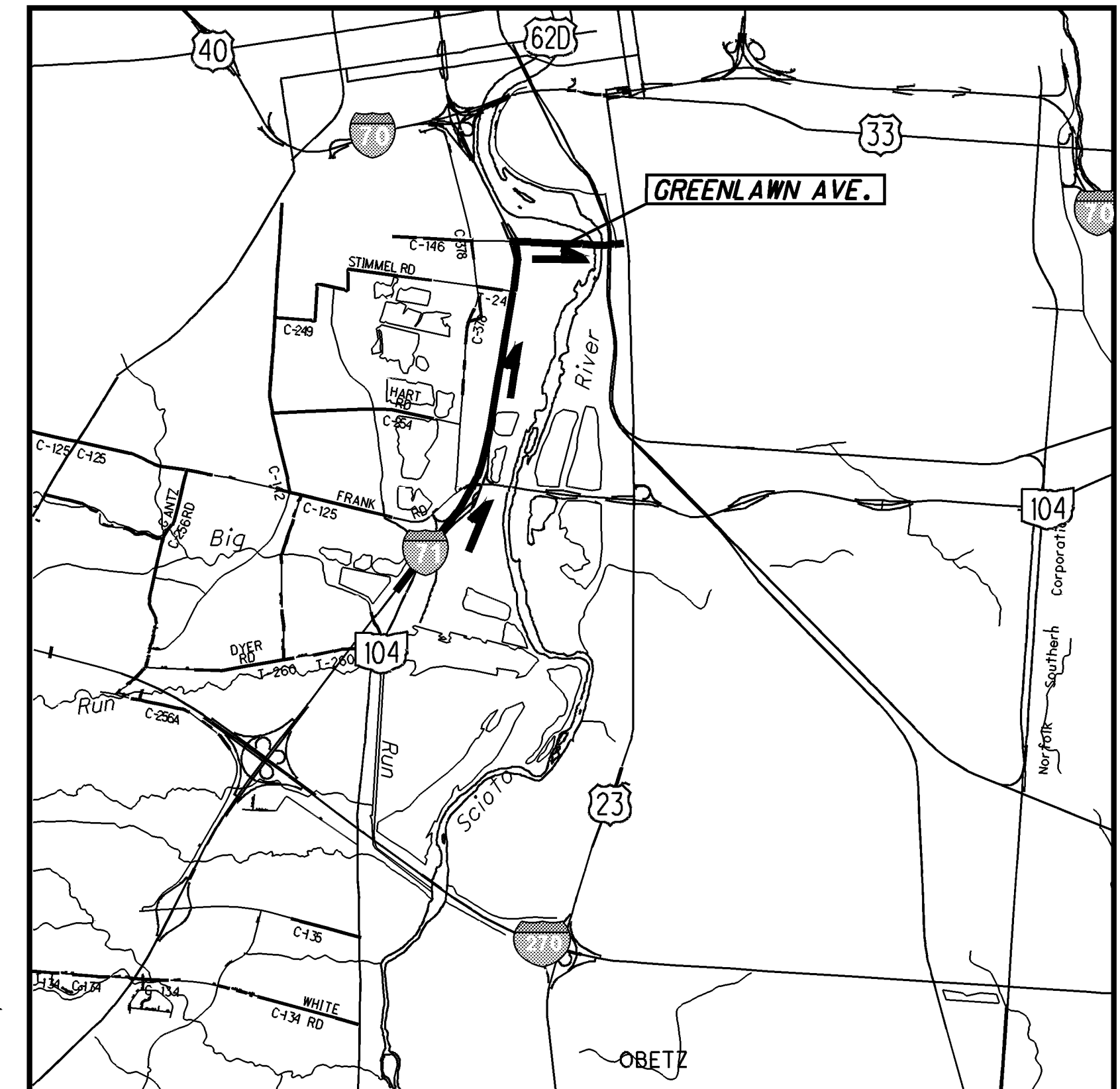
THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF CMS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS, WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS, TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE DEPARTMENT DUE TO THE CONTRACTOR'S NONCOMPLIANCE, WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK. THE CONTRACTOR SHALL ONLY BE PAID FOR PCMS UNITS WHEN THEY ARE IN OPERATION ON THE PROJECT AS SPECIFIED IN THE PLANS OR BY THE ENGINEER.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN:  
 10 DAYS



**PROPOSED DETOUR** →

**PCMS NUMBER AND LOCATION REQUIREMENTS**

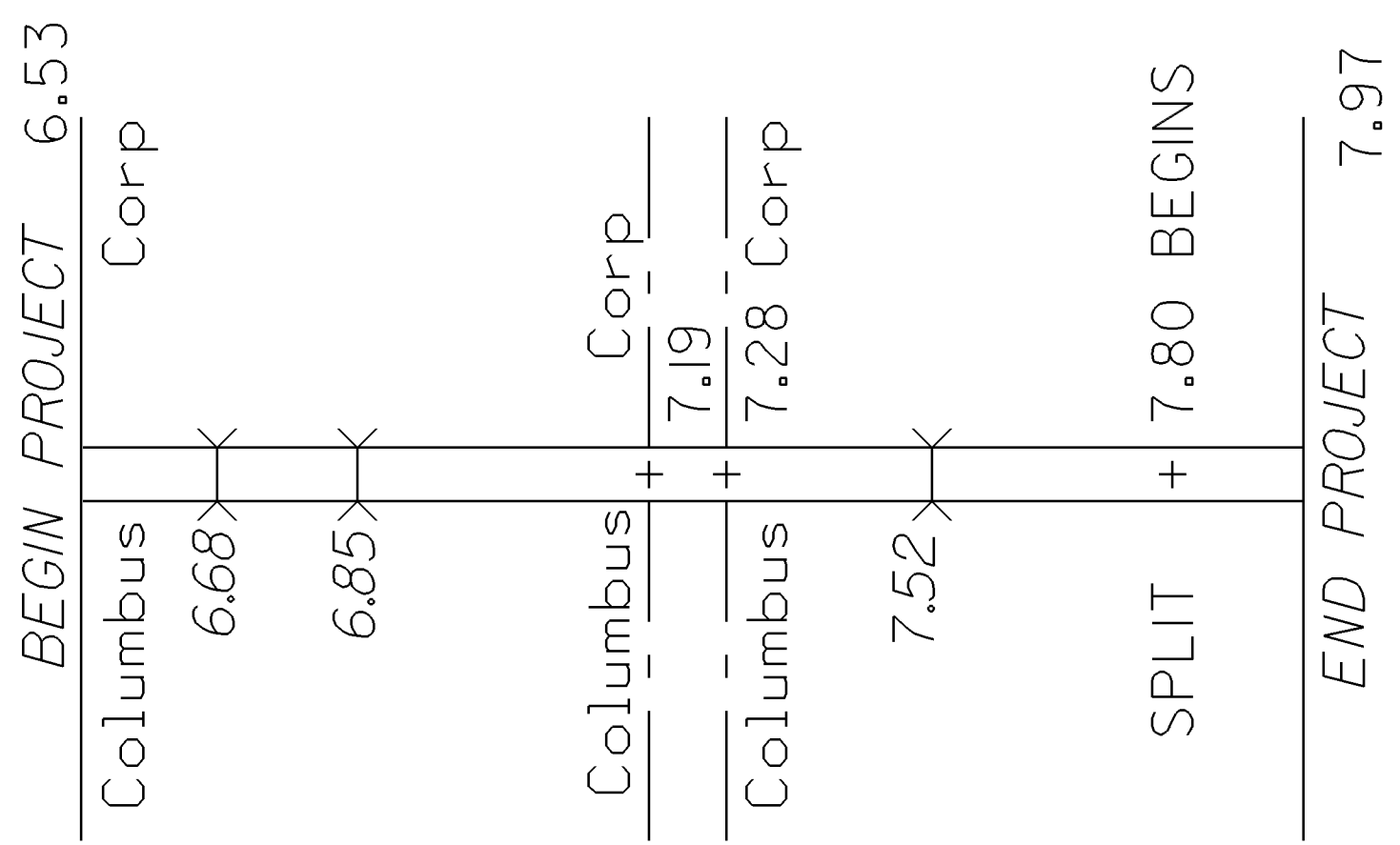
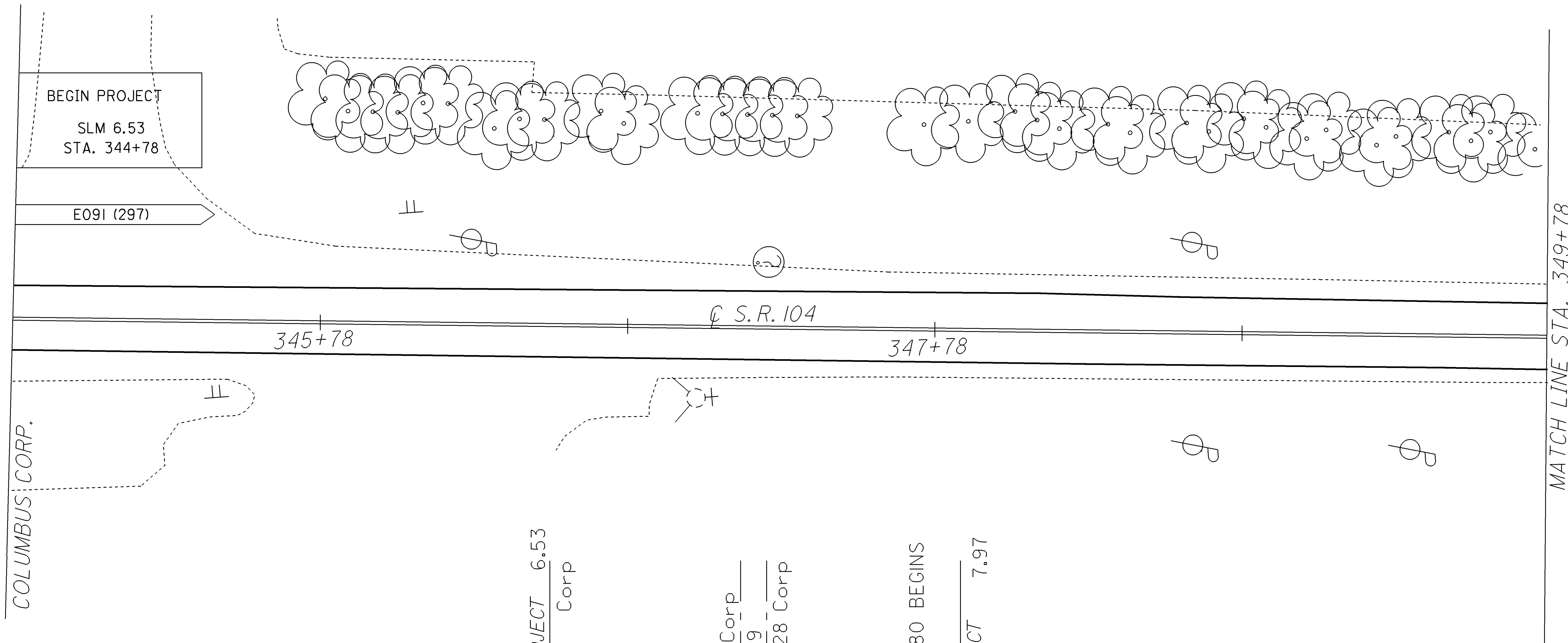
TWO PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE USED TO DISPLAY DETOUR ROUTE. ONE SHOULD BE PLACED ½ MILE SOUTH OF S.R. 104, THE OTHER SHOULD BE PLACED ½ SOUTH OF GREENLAWN AVE. ON IR 71 NB USING GREENLAWN AVE. TO ACCESS U.S. 23 (HIGH ST.)

I:\Projects\fra\104\0653\011\78167\production\GDN\GNI03.dgn Default 16-FEB-2011 12:57PM cransaw

GENERAL NOTES

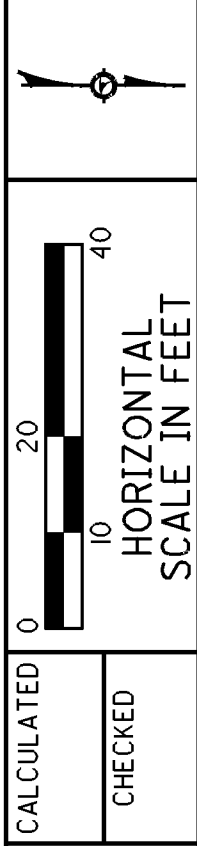
FRA-104-6.53



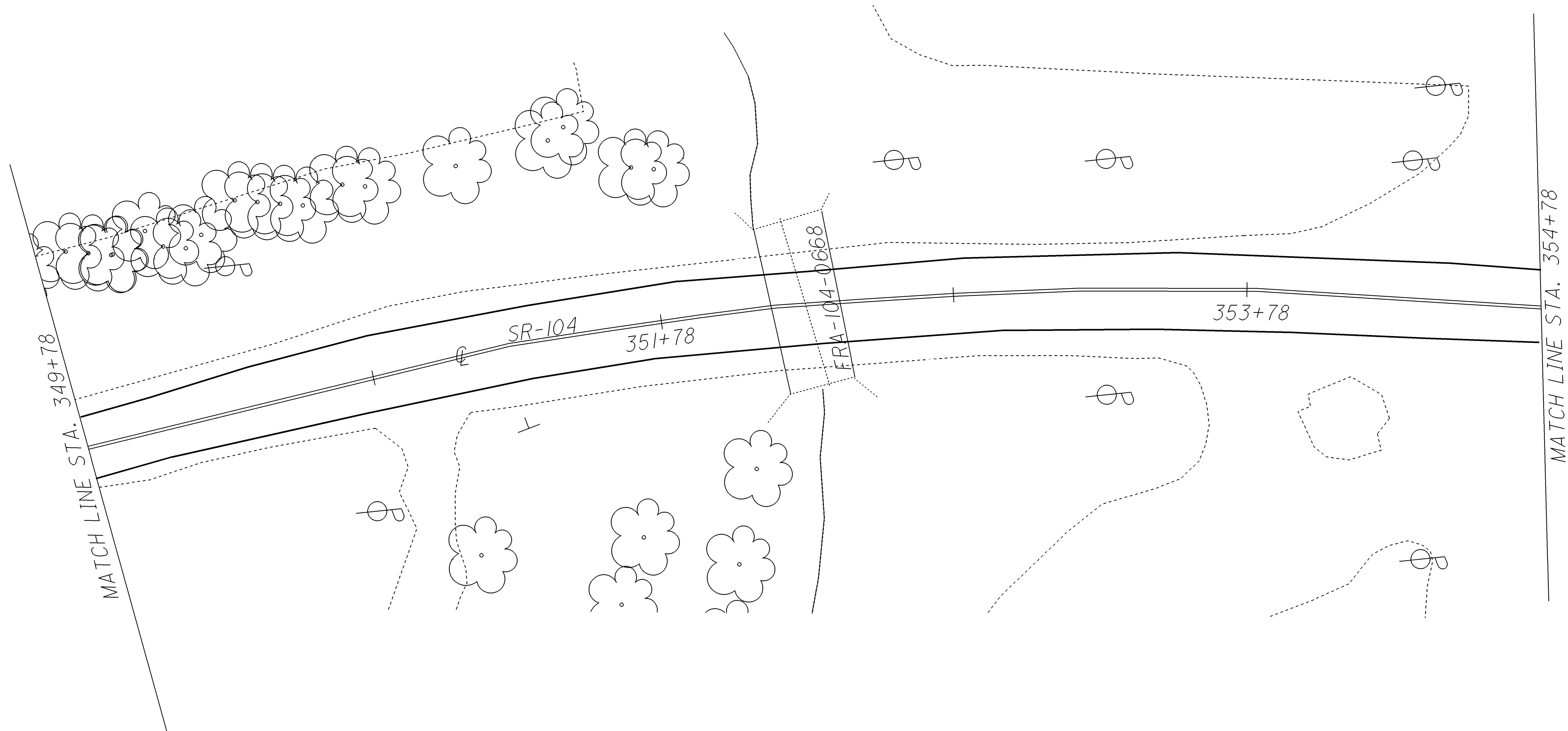


SCHMATIC OF S.R. 104

LOCATION										REMARKS					
LOCATION	COUNTY	ROUTE	START LOG POINT	END LOG POINT	TYPICAL	PAVEMNT WIDTH			PAVEMENT AREA	254	407	448	617		
						A	B	C		PAVEMENT PLANING 1.5" AVG. DEPTH	TACK COAT	ASPHALT CONCRETE SURFACE COURSE, TYPE IH	COMPACTED AGGREGATE, 2.0" AVERAGE DEPTH		
STA	STA		FT	SY	SY	GAL	IN	CY	FT	CY					
I	FRA	SR 104	344+78	349+78	I	1.0	24.0	1.0	1444	1444	108	1.5	60	3.0	19
TOTALS CARRIED TO GENERAL SUMMARY										1444	108	60	19		



PAVEMENT SUBSUMMARY AND DETAILS



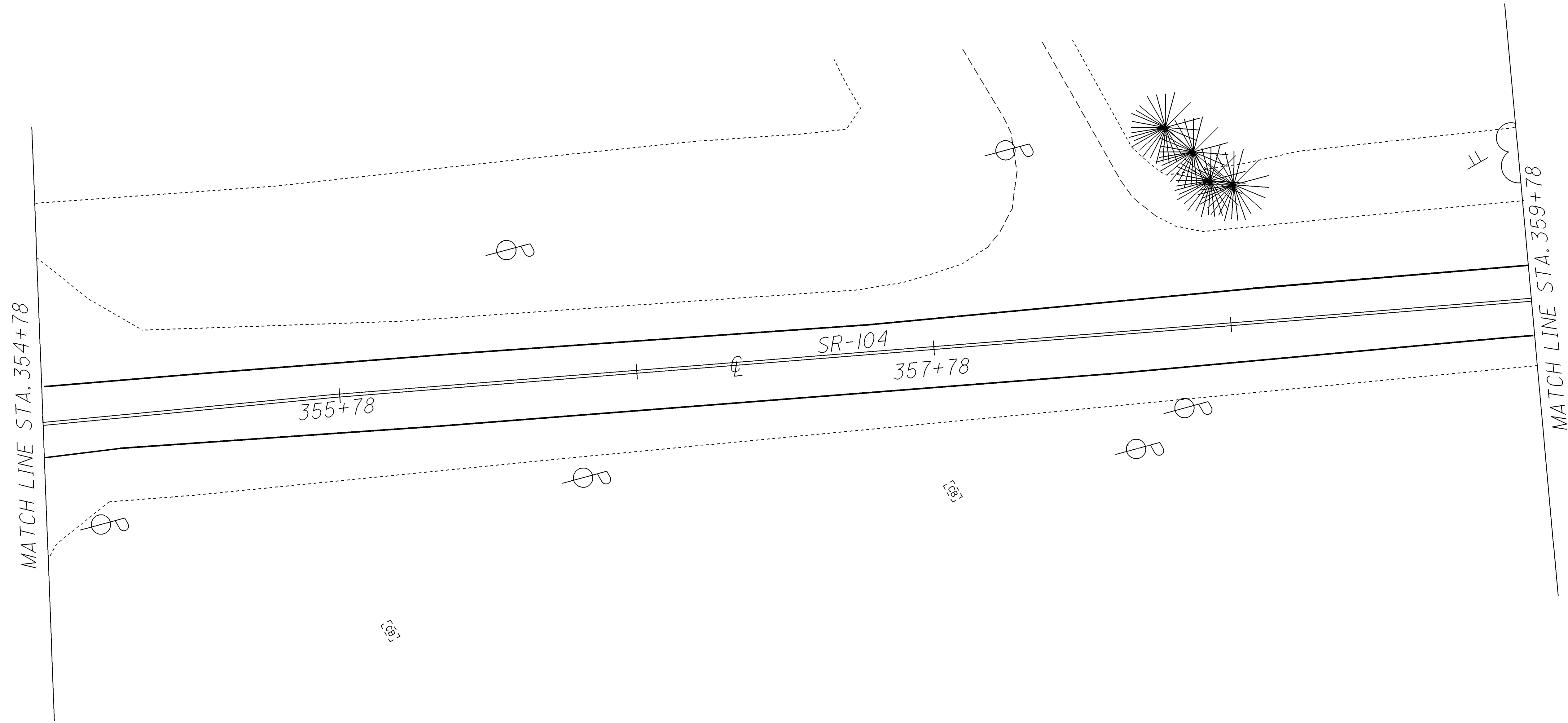
LOCATION											REMARKS				
LOCATION	COUNTY	ROUTE	START LOG POINT	END LOG POINT	TYPICAL	PAVEMNT WIDTH			PAVEMENT AREA	254	407	448	617		
						A	B	C		PAVEMENT PLANING 1.5" AVG. DEPTH	TACK COAT	ASPHALT CONCRETE SURFACE COURSE, TYPE 1H	COMPACTED AGGREGATE 2.0" AVERAGE DEPTH		
			SLM	SLM		FT		SY	SY	0.075 GAL PER SY	AVG DEPTH	CY	AVG WIDTH	CY	
I	FRA	SR 104	349+78	354+78	I	1.0	24.0	1.0	1444	1444	108	1.5	60	3.0	19
			351+89		I	1.0	24.0	1.0	-118	-118	-9	1.5	-5		
TOTALS CARRIED TO GENERAL SUMMARY									1326	99	55	19			

DEDUCT FOR STRUCTURE (SEE SHT. 28 FOR TREATMENT)

PAVEMENT SUBSUMMARY AND DETAILS

FRA-104-6.53



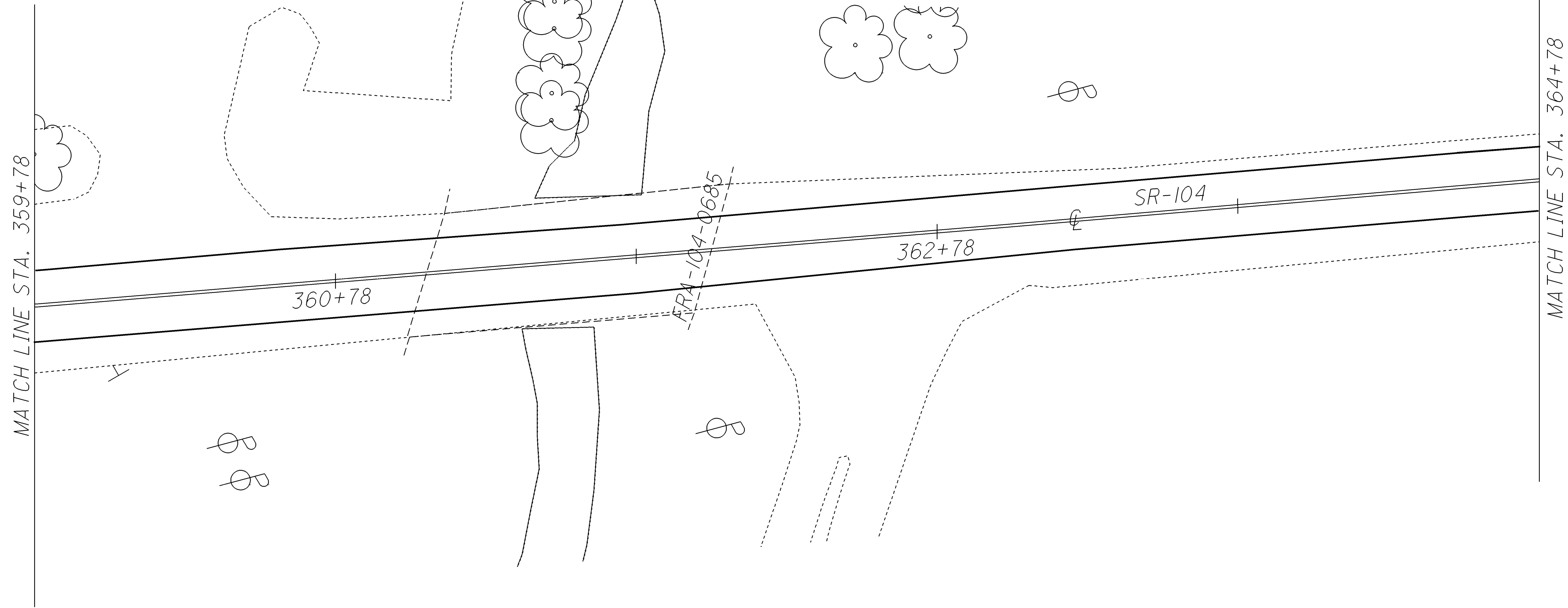


LOCATION											REMARKS					
LOCATION	COUNTY	ROUTE	START LOG POINT	END LOG POINT	TYPICAL	PAVEMNT WIDTH			PAVEMENT AREA	254	407	448	617			
						A	B	C		PAVEMENT PLANING 1.5" AVG. DEPTH	TACK COAT	ASPHALT CONCRETE SUFACE COURSE, TYPE IH	COMPACTED AGGREGATE, TYPE A 2.0" AVERAGE DEPTH			
			SLM	SLM						0.075 GAL PER SY	AVG DEPTH	AVG WIDTH				
							FT	SY	SY	GAL	IN	FT	CY			
I	FRA	SR 104	354+78	359+78	I	1.0	24.0	1.0	1444	1444	108	1.5	60	3.0	19	
TOTALS CARRIED TO GENERAL SUMMARY									1444	108	60	19				



**PAVEMENT SUBSUMMARY AND DETAILS**

**FRA-104-6.53**



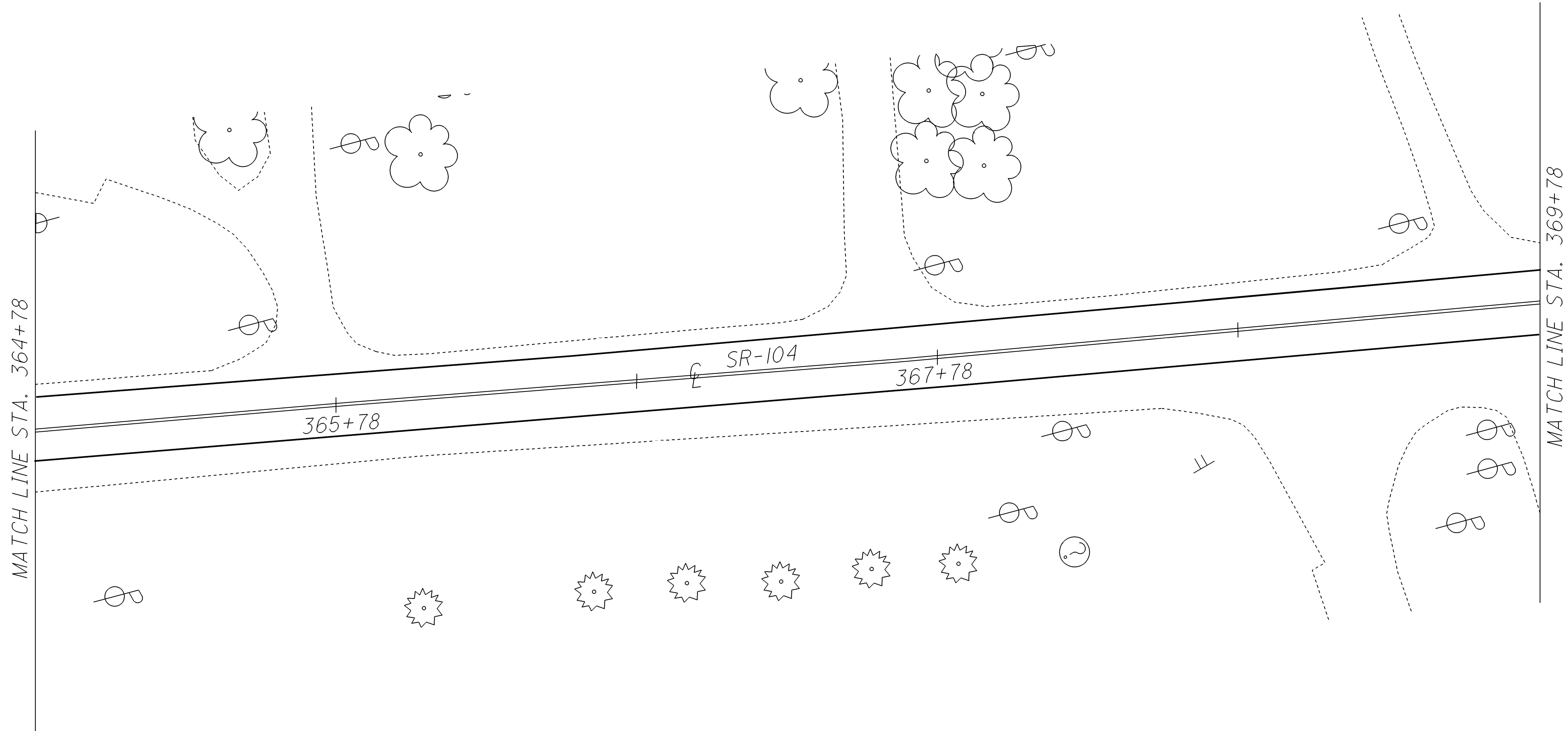
LOCATION										REMARKS						
LOCATION	COUNTY	ROUTE	START LOG POINT	END LOG POINT	TYPICAL	PAVEMNT WIDTH			PAVEMENT AREA	254	407	448	617			
						A	B	C		PAVEMENT PLANING 1.5" AVG. DEPTH	TACK COAT	ASPHALT CONCRETE SUFACE COURSE, TYPE IH	COMPACTED AGGREGATE 2.0" AVERAGE DEPTH			
			SLM	SLM		FT		SY	SY	GAL	IN	CY	FT	CY		
I	FRA	SR 104	359+78	364+78	I	1.0	24.0	1.0	1444	1444	108	1.5	60	3.0	19	
			360+80		I	1.0	24.0	1.0	-271	-271	-20	1.5	-11			DEDUCT FOR STRUCTURE
TOTALS CARRIED TO GENERAL SUMMARY									1173	88	49	19				

CALCULATED  
CHECKED

HORIZONTAL SCALE IN FEET

**PAVEMENT SUBSUMMARY AND DETAILS**

**FRA -104-6.53**



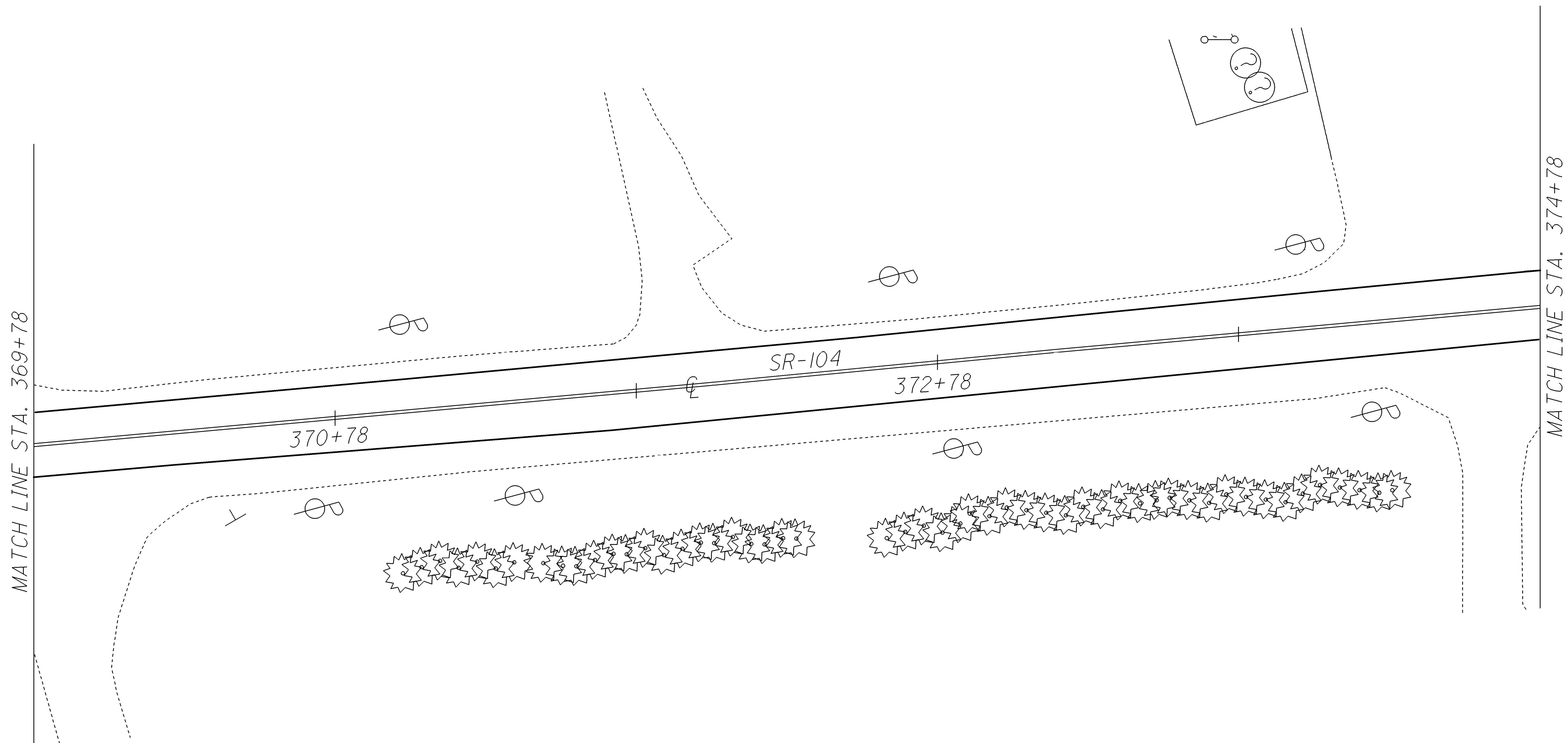
LOCATION											REMARKS				
LOCATION	COUNTY	ROUTE	START LOG POINT	END LOG POINT	TYPICAL	PAVEMNT WIDTH			PAVEMENT AREA	254	407	448	617		
						A	B	C		PAVEMENT PLANING 1.5" AVG. DEPTH	TACK COAT	ASPHALT CONCRETE SURFACE COURSE, TYPE 1H			COMPACTED AGGREGATE 2.0" AVERAGE DEPTH
			SLM	SLM		FT		SY	SY	0.075 GAL PER SY	AVG DEPTH	CY	FT	CY	
I	FRA	SR 104	364+78	369+78	I	1.0	24.0	1.0	1444	1444	108	1.5	60	3.0	19
TOTALS CARRIED TO GENERAL SUMMARY									1444	108		60		19	



CALCULATED  
CHECKED

**PAVEMENT SUBSUMMARY AND DETAILS**

**FRA-104-6.53**



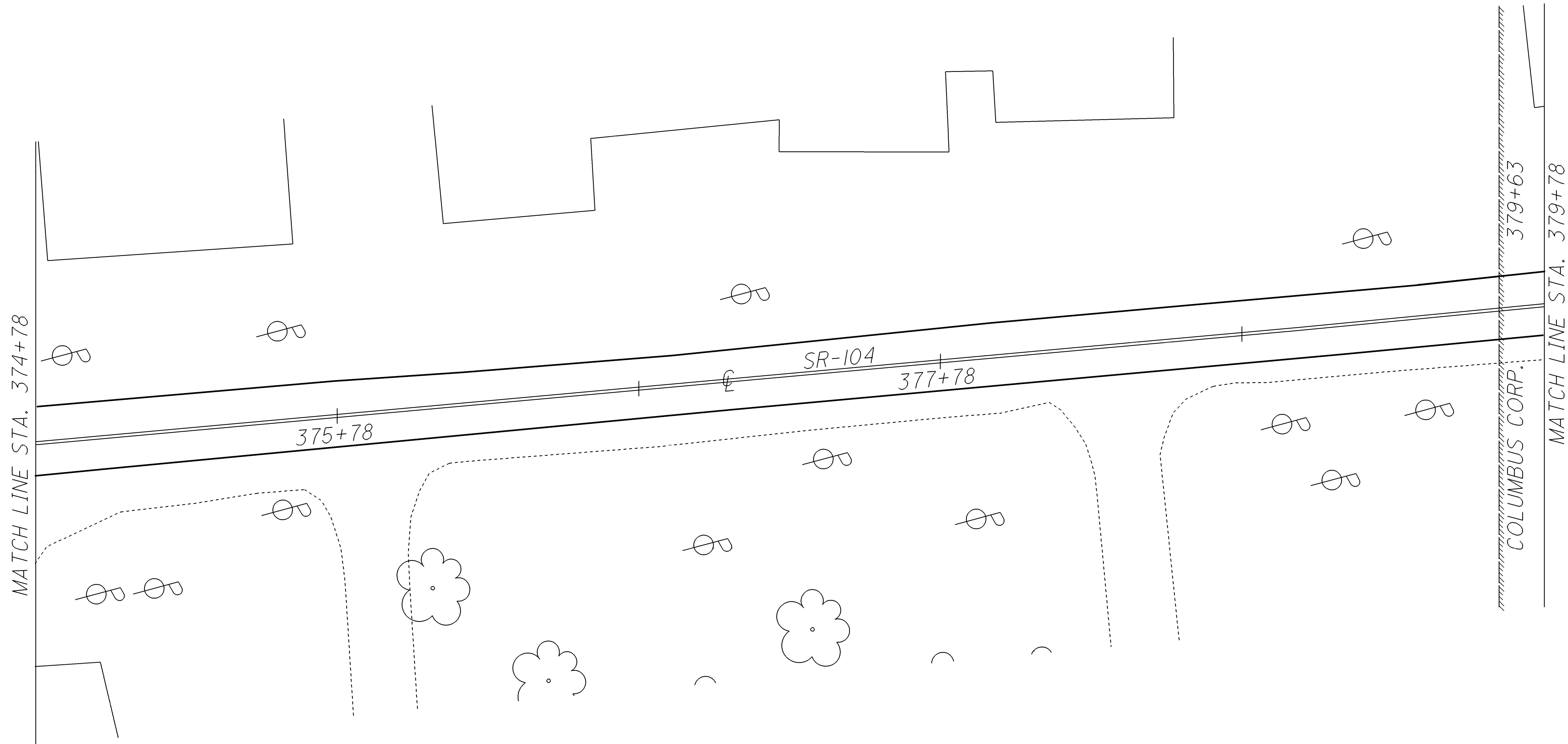
LOCATION											REMARKS					
LOCATION	COUNTY	ROUTE	START LOG POINT	END LOG POINT	TYPICAL	PAVEMNT WIDTH			PAVEMENT AREA	254	407	448	617			
						A	B	C		PAVEMENT PLANING 1.5" AVG. DEPTH	TACK COAT	ASPHALT CONCRETE SURFACE COURSE, TYPE IH		COMPACTED AGGREGATE 2.0" AVERAGE DEPTH		
						FT				SY	0.075 GAL PER SY	AVG DEPTH	AVG WIDTH	CY		
SLM	SLM															
I	FRA	SR 104	369+78	374+78	I	1.0	24.0	1.0	1444	1444	108	1.5	60	3.0	19	
TOTALS CARRIED TO GENERAL SUMMARY										1444	108		60		19	

CALCULATED  
CHECKED

0 20 40  
HORIZONTAL SCALE IN FEET

**PAVEMENT SUBSUMMARY AND DETAILS**

**FRA-104-6.53**



LOCATION										REMARKS					
LOCATION	COUNTY	ROUTE	START LOG POINT	END LOG POINT	TYPICAL	PAVEMNT WIDTH			PAVEMENT AREA	254	407	448	617		
						A	B	C		PAVMENT PLANING 1.5" AVG. DEPTH	TACK COAT	ASPHALT CONCRETE SUFACE COURSE, TYPE IH	COMPACTED AGGREGATE 2.0" AVERAGE DEPTH		
						FT		SY	0.075 GAL PER SY	AVG DEPTH	CY	FT	CY		
I	FRA	SR 104	374+78	379+78	I	1.0	24.0	1.0	1444	1444	108	1.5	60	3.0	19
TOTALS CARRIED TO GENERAL SUMMARY										1444	108		60		19

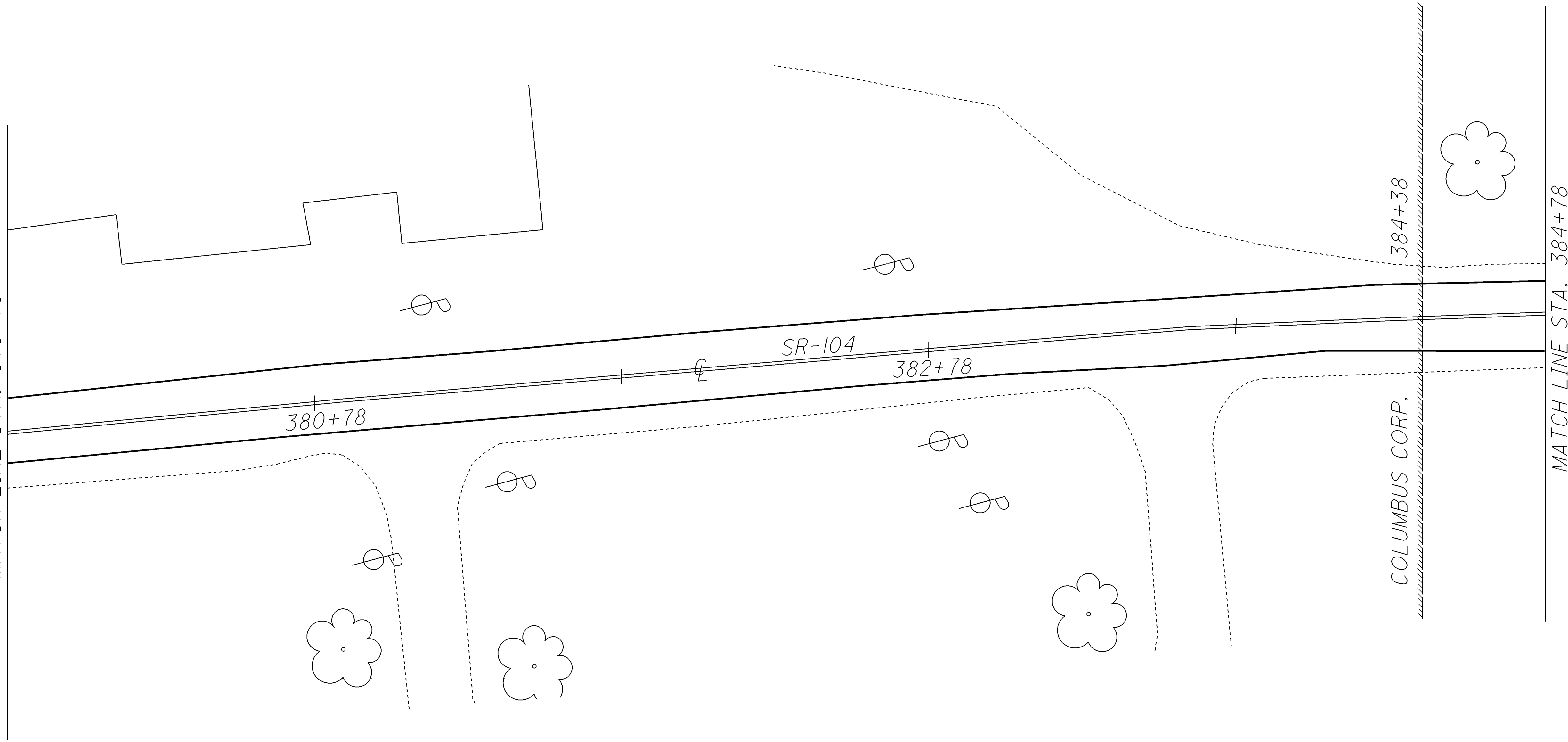
CALCULATED  
CHECKED

HORIZONTAL SCALE IN FEET

PAVEMENT SUBSUMMARY AND DETAILS

FRA-104-6.53

MATCH LINE STA. 379+78



MATCH LINE STA. 384+78

LOCATION											REMARKS					
LOCATION	COUNTY	ROUTE	START LOG POINT	END LOG POINT	TYPICAL	PAVEMNT WIDTH			PAVEMENT AREA	254	407	448	617			
						A	B	C		PAVEMENT PLANING 1.5" AVG. DEPTH	TACK COAT	ASPHALT CONCRETE SURFACE COURSE, TYPE IH	COMPACTED AGGREGATE 2.0" AVERAGE DEPTH			
			SLM	SLM					0.075 GAL PER SY	AVG DEPTH		AVG WIDTH				
						FT		SY	GAL	IN	CY	FT	CY			
I	FRA	SR 104	379+78	384+78	I	1.0	24.0	1.0	1444	1444	108	1.5	60	3.0	19	
TOTALS CARRIED TO GENERAL SUMMARY									1444	108	60	19				

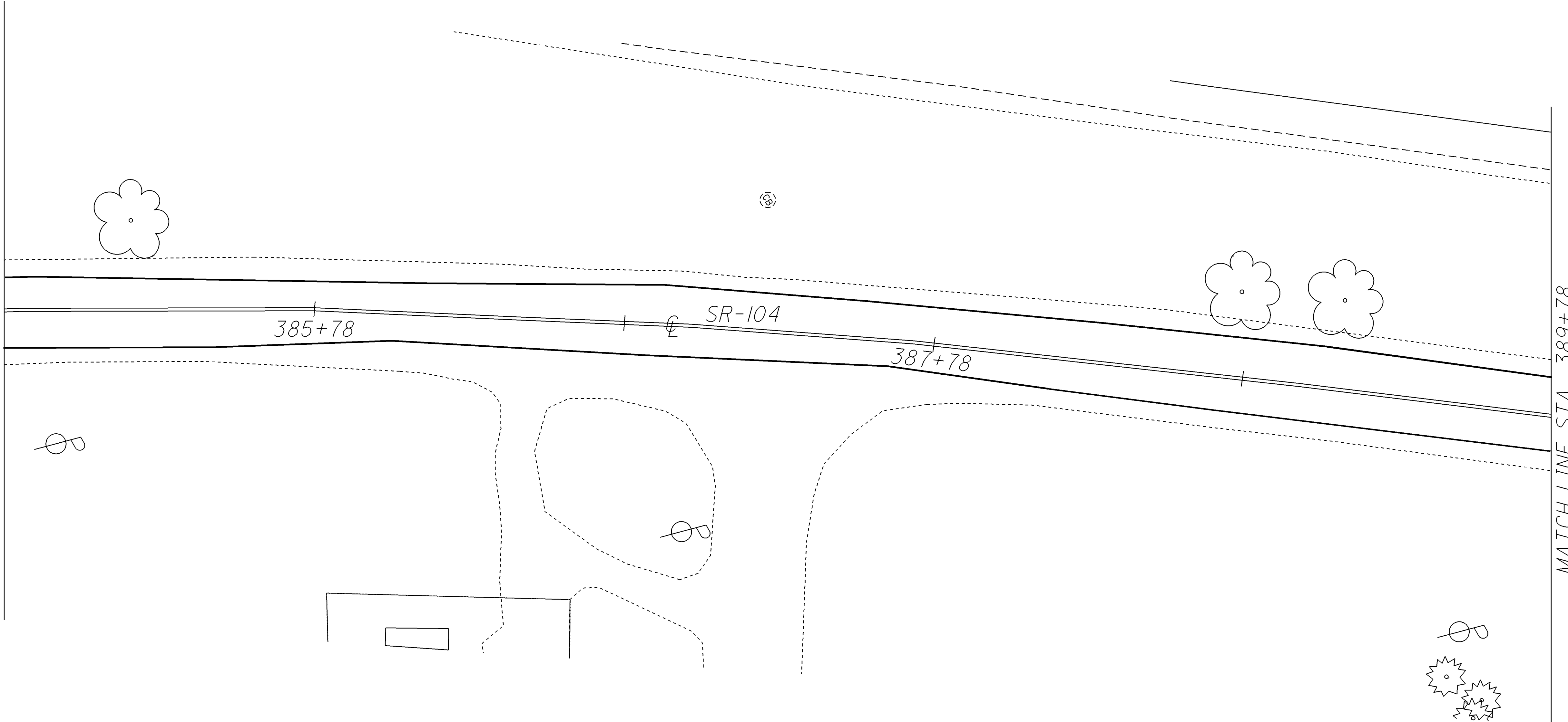
CALCULATED  
CHECKED

HORIZONTAL SCALE IN FEET

PAVEMENT SUBSUMMARY AND DETAILS

FRA-104-6.53

MATCH LINE STA. 384+78



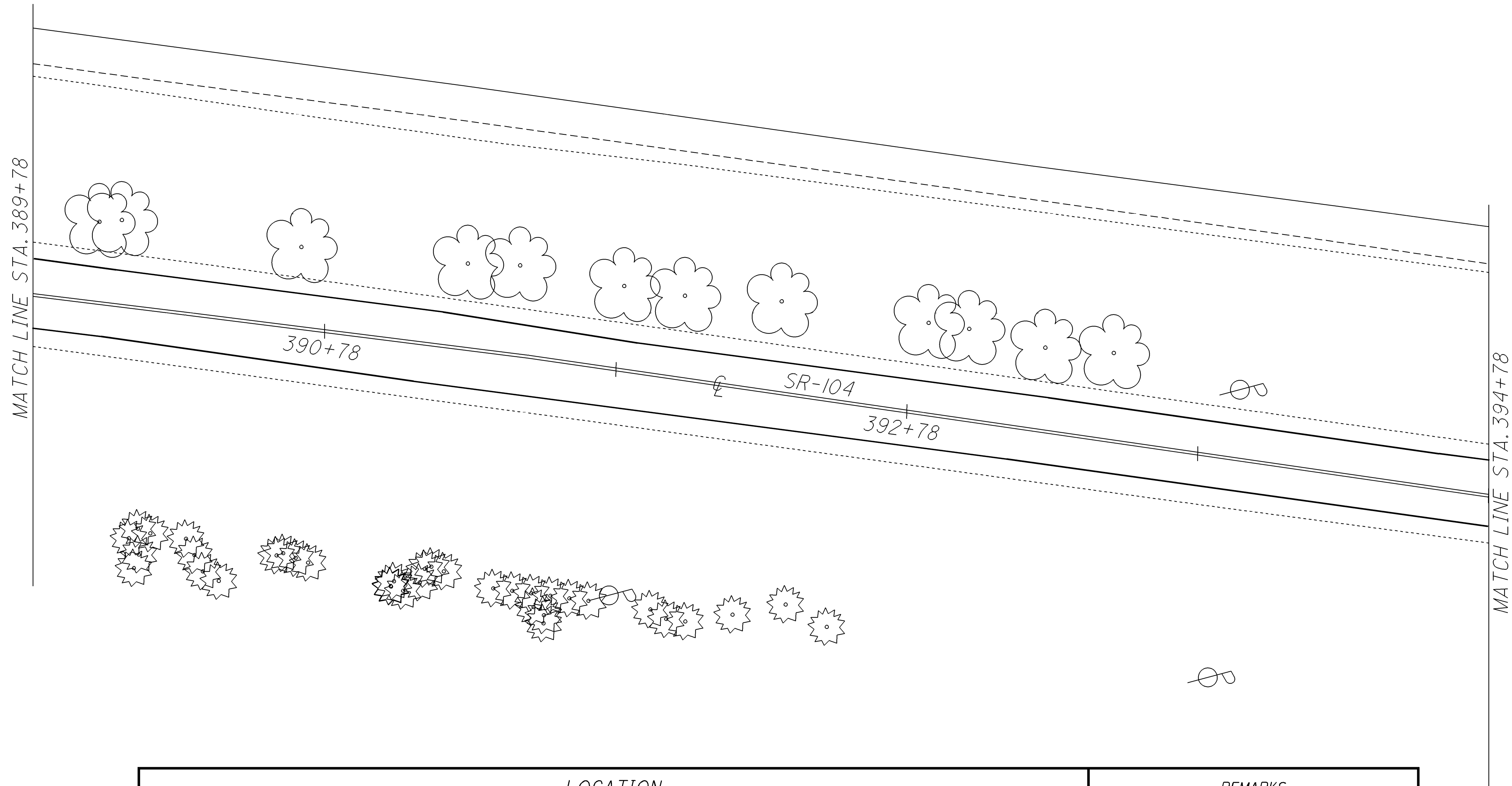
LOCATION										REMARKS					
LOCATION	COUNTY	ROUTE	START LOG POINT	END LOG POINT	TYPICAL	PAVEMNT WIDTH			PAVEMENT AREA	254	407	448		617	
						A	B	C		PAVEMENT PLANING 1.5" AVG. DEPTH	TACK COAT	ASPHALT CONCRETE SUFACE COURSE, TYPE IH		COMPACTED AGGREGATE 2.0" AVERAGE DEPTH	
			SLM	SLM			FT		SY	0.075 GAL PER SY	AVG DEPTH	CY	AVG WIDTH	CY	
										GAL	IN		FT		
I	FRA	SR 104	384+78	389+78	I	1.0	24.0	1.0	1444	1444	108	1.5	60	3.0	19
TOTALS CARRIED TO GENERAL SUMMARY									1444	108		60		19	

CALCULATED  
CHECKED

HORIZONTAL SCALE IN FEET

PAVEMENT SUBSUMMARY AND DETAILS

FRA-104-6.53



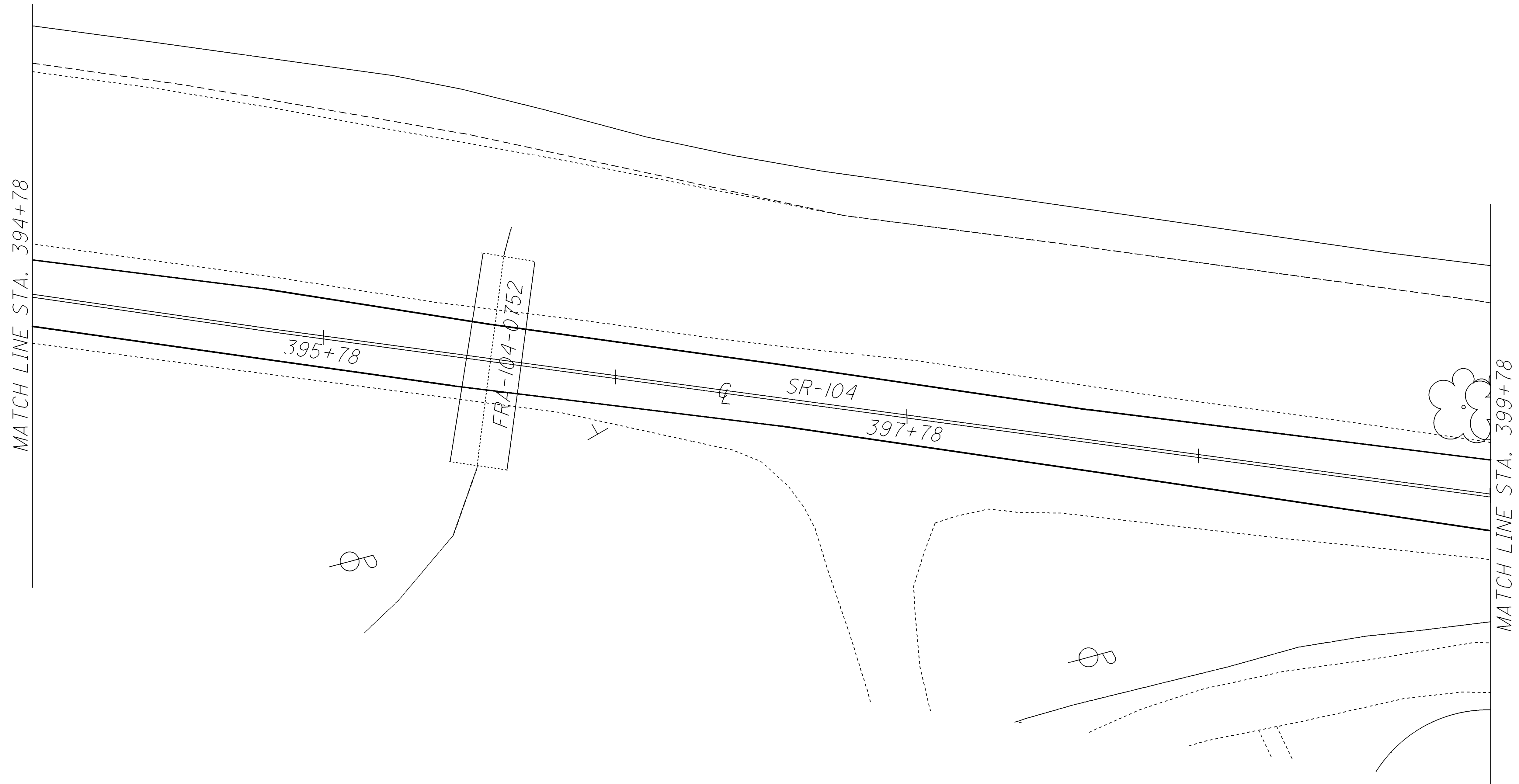
LOCATION										REMARKS						
LOCATION	COUNTY	ROUTE	START LOG POINT		TYPICAL	PAVEMNT WIDTH			PAVEMENT AREA	254	407	448		617		
			SLM	SLM		A	B	C		PAVEMENT PLANING 1.5" AVG. DEPTH	TACK COAT	ASPHALT CONCRETE SUFACE COURSE, TYPE IH		COMPACTED AGGREGATE 2.0" AVERAGE DEPTH		
						FT				SY	0.075 GAL PER SY	AVG DEPTH	AVG WIDTH		FT	CY
										SY	GAL	IN	CY	FT	CY	
I	FRA	SR 104	389+78	394+78	I	1.0	24.0	1.0	1444	1444	108	1.5	60	3.0	19	
TOTALS CARRIED TO GENERAL SUMMARY										1444	108			60		19



**PAVEMENT SUBSUMMARY AND DETAILS**

**FRA -104-6.53**





LOCATION											REMARKS					
LOCATION	COUNTY	ROUTE	START LOG POINT	END LOG POINT	TYPICAL	PAVEMNT WIDTH			PAVEMENT AREA	254	407	448	617			
						A	B	C		PAVEMENT PLANING 1.5" AVG. DEPTH	TACK COAT	ASPHALT CONCRETE SURFACE COURSE, TYPE IH		COMPACTED AGGREGATE 2.0" AVERAGE DEPTH		
						FT	FT	FT		SY	0.075 GAL PER SY	AVG DEPTH	AVG WIDTH			
SLM	SLM															
I	FRA	SR 104	394+78	399+78	I	1.0	24.0	1.0	1444	1444	108	1.5	60	3.0	19	
			396+43			1.0	24.0	1.0	-52	-52	-4	1.5	-2		DEDUCT FOR STRUCTURE (SEE SHT. 28 FOR TREATMENT)	
TOTALS CARRIED TO GENERAL SUMMARY									1392	104	58		19			

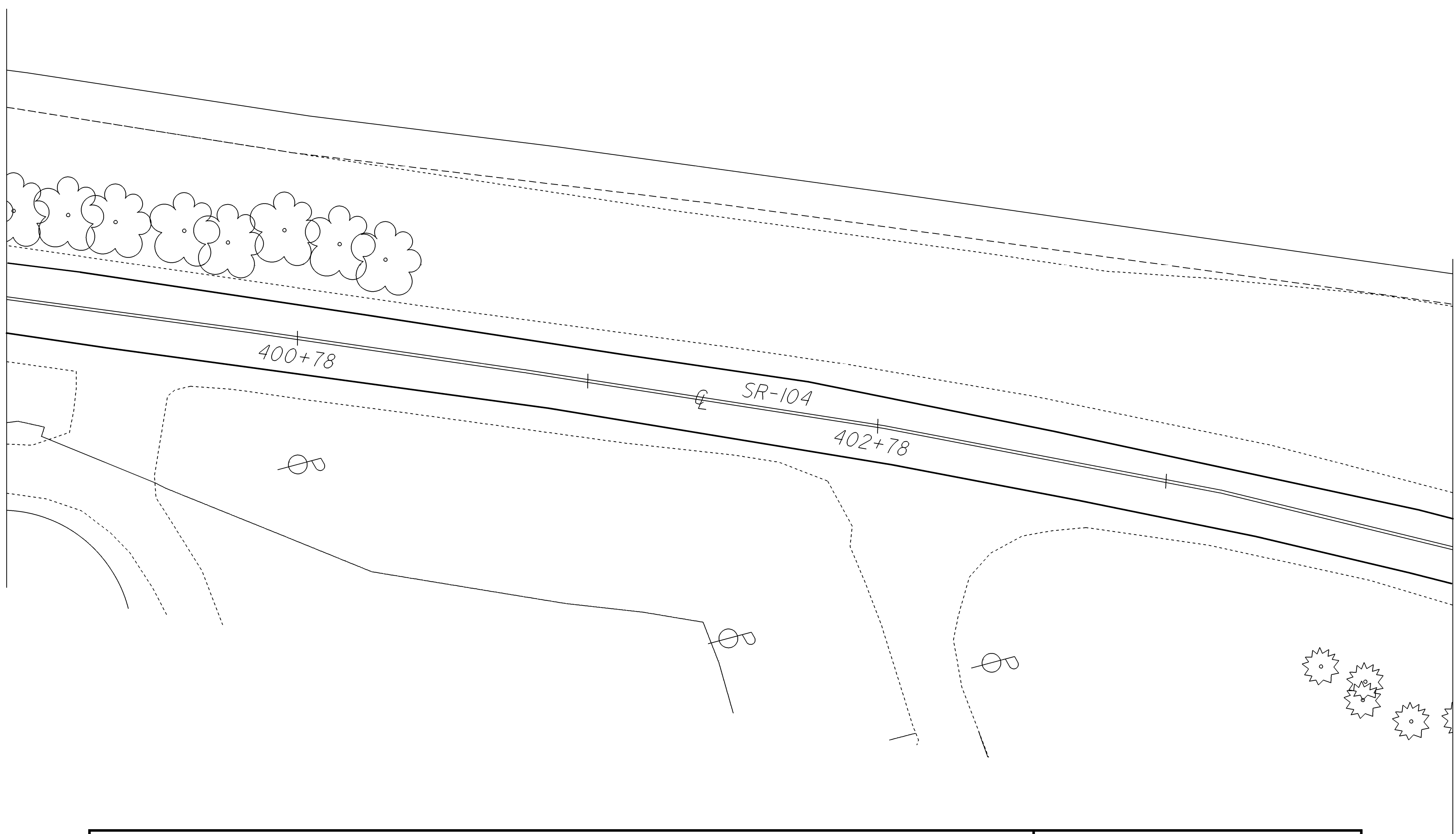
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CHECKED

HORIZONTAL SCALE IN FEET

**PAVEMENT SUBSUMMARY AND DETAILS**

**FRA -104-6.53**

MATCH LINE STA. 399+78



MATCH LINE STA. 404+78

LOCATION										REMARKS					
LOCATION	COUNTY	ROUTE	START LOG POINT	END LOG POINT	TYPICAL	PAVEMNT WIDTH			PAVEMENT AREA	254	407	448	617		
						A	B	C		PAVEMENT PLANING 1.5" AVG. DEPTH	TACK COAT	ASPHALT CONCRETE SUFACE COURSE, TYPE IH	COMPACTED AGGREGATE 2.0" AVERAGE DEPTH		
			SLM	SLM		FT		SY	SY	GAL	IN	CY	FT	CY	
I	FRA	SR 104	399+78	404+78	I	1.0	24.0	1.0	1444	1444	108	1.5	60	3.0	19
TOTAL									1444	108		60		19	

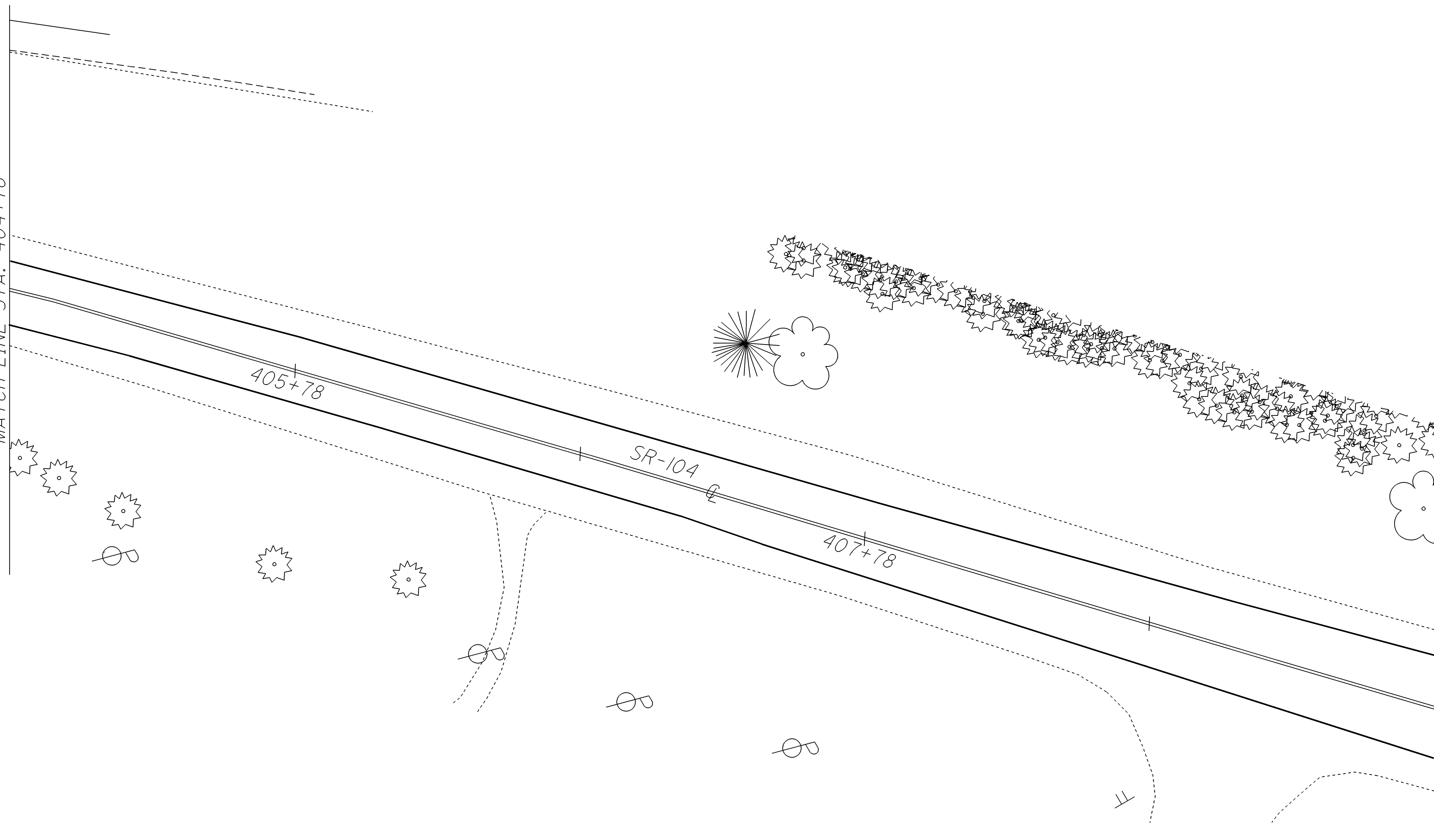
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HORIZONTAL SCALE IN FEET

**PAVEMENT SUBSUMMARY AND DETAILS**

**FRA-104-6.53**

MATCH LINE STA. 404+78



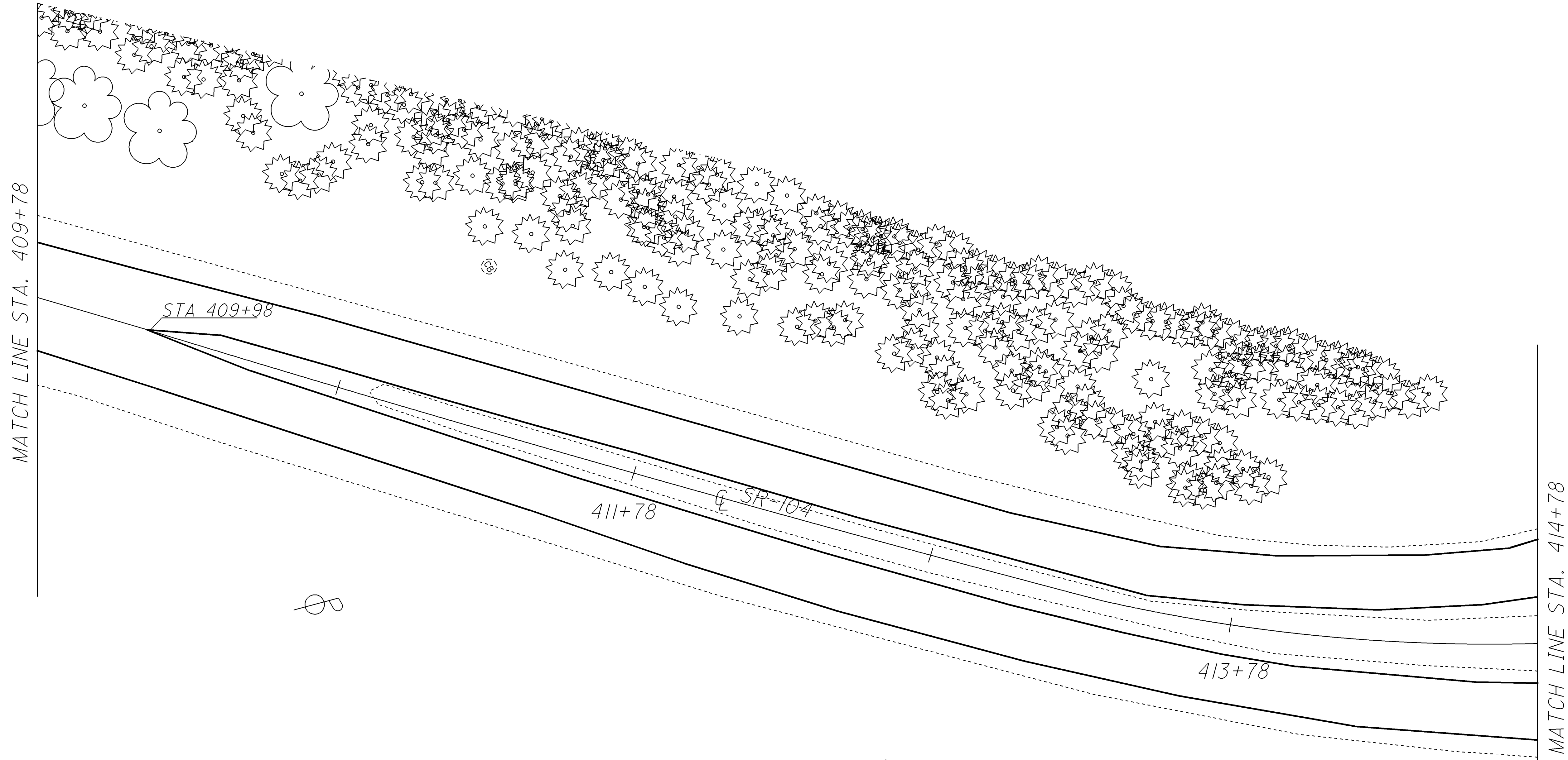
MATCH LINE STA. 409+78

LOCATION											REMARKS				
LOCATION	COUNTY	ROUTE	START LOG POINT	END LOG POINT	TYPICAL	PAVEMNT WIDTH			PAVEMENT AREA	254	407	448	617		
						A	B	C		PAVEMENT PLANING 1.5" AVG. DEPTH	TACK COAT	ASPHALT CONCRETE SURFACE COURSE, TYPE IH			COMPACTED AGGREGATE 2.0" AVERAGE DEPTH
			SLM	SLM					SY	0.075 GAL PER SY	AVG DEPTH	AVG WIDTH			
						FT		SY	SY	GAL	IN	FT	CY		
I	FRA	SR 104	404+78	409+78	I	1.0	24.0	1.0	1444	1444	108	1.5	60	3.0	19
TOTALS CARRIED TO GENERAL SUMMARY									1444	108		60		19	

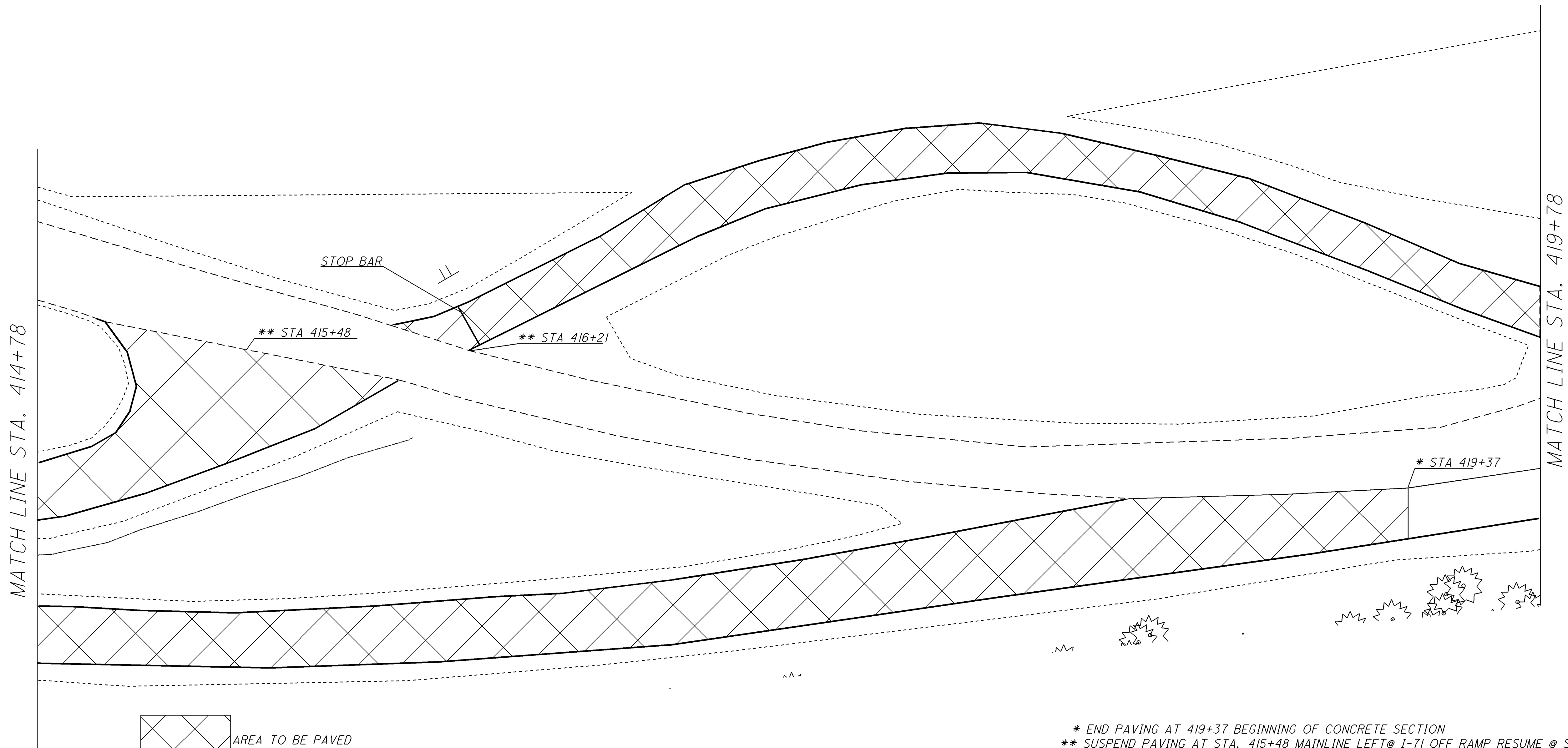
CALCULATED 0 20 40  
 CHECKED  
 HORIZONTAL SCALE IN FEET

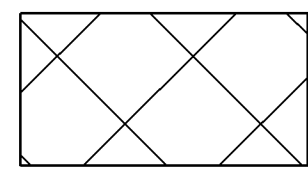
PAVEMENT SUBSUMMARY AND DETAILS

FRA-104-6.53



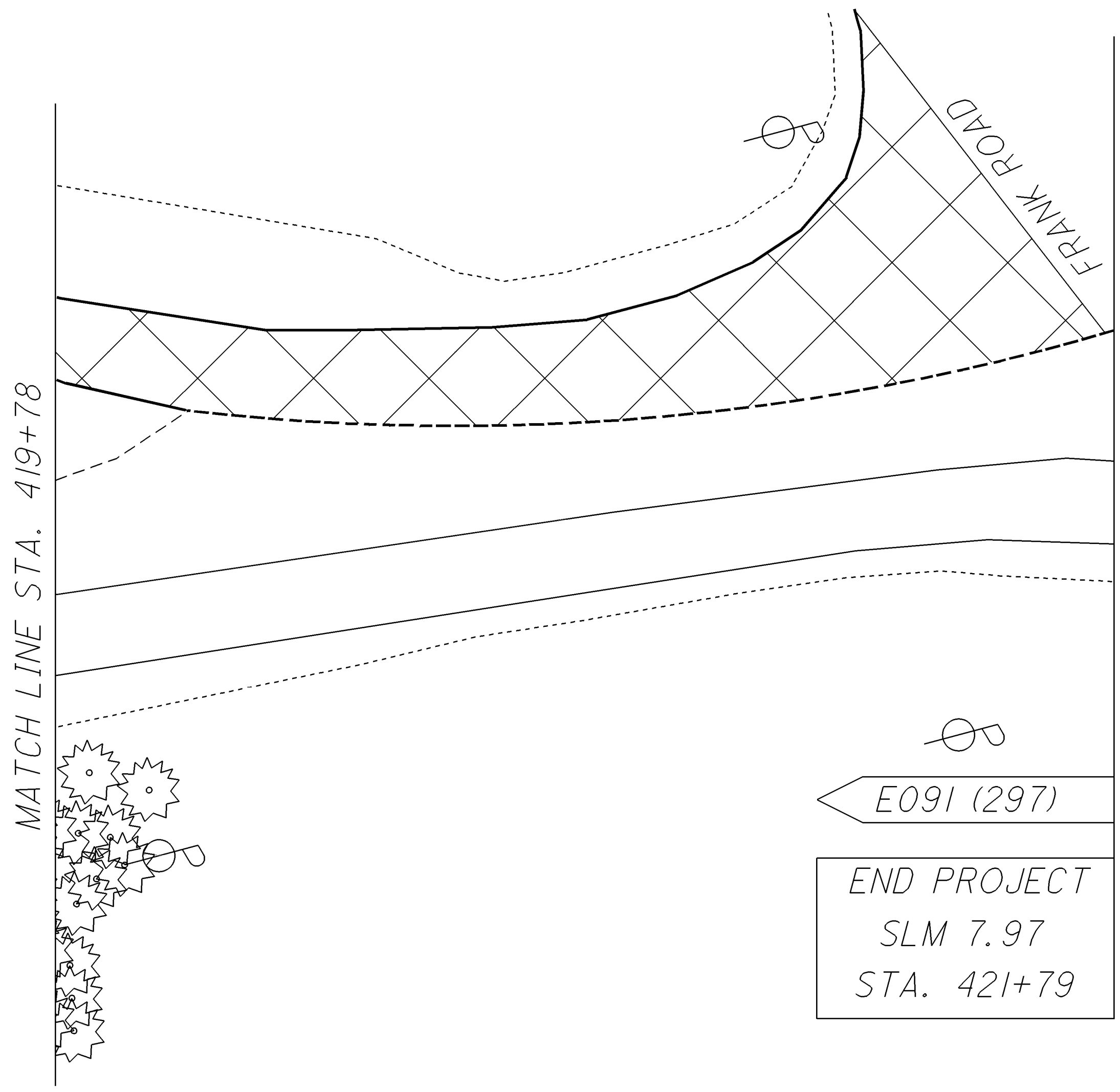
LOCATION										REMARKS						
LOCATION	COUNTY	ROUTE	START LOG POINT	END LOG POINT	TYPICAL	PAVEMNT WIDTH			PAVEMENT AREA	254	407	448	617			
						A	B	C		PAVEMENT PLANING 1.5" AVG. DEPTH	TACK COAT	ASPHALT CONCRETE SUFACE COURSE, TYPE IH		COMPACTED AGGREGATE 2.0" AVERAGE DEPTH		
										0.075 GAL PER SY	AVG DEPTH	AVG WIDTH				
						SLM	SLM	FT		SY	GAL	IN	CY	FT		CY
I	FRA	SR 104	409+78	409+98	I	1.0	24.0	1.0	58	58	4	1.5	2	3.0	1	MAINLINE
			409+98	414+78	I	1.0	16.0	1.0	960	960	72	1.5	40	3.0	18	MAINLINE LEFT
			409+98	414+78	I	1.0	16.0	1.0	960	960	72	1.5	40	3.0	18	MAINLINE RIGHT
TOTALS CARRIED TO GENERAL SUMMARY									1978	148			82		37	



 AREA TO BE PAVED

\* END PAVING AT 419+37 BEGINNING OF CONCRETE SECTION  
 \*\* SUSPEND PAVING AT STA. 415+48 MAINLINE LEFT @ I-71 OFF RAMP RESUME @ STA. 416+21 MAINLINE LEFT

LOCATION										REMARKS						
LOCATION	COUNTY	ROUTE	START LOG POINT	END LOG POINT	TYPICAL	PAVEMNT WIDTH			PAVEMENT AREA	254	407	448	617	REMARKS		
						A	B	C		SY	TACK COAT	ASPHALT CONCRETE SURFACE COURSE, TYPE IH	COMPACTED AGGREGATE, TYPE A 2.0" AVERAGE DEPTH			
															0.075 GAL PER SY	AVG DEPTH
SLM	SLM	FT	SY	GAL	IN	CY	FT	CY								
I	FRA	SR 104	414+78	415+48	I	1.0	16.0	1.0	140	140	11	1.5	6	3.0	2	SUSPEND @ I-71 OFF RAMP MAINLINE LEFT
			416+21	419+78	I	1.0	16.0	1.0	714	714	54	1.5	30	3.0	13	RESUME @ I-71 OFF RAMP MAINLINE LEFT
			414+78	419+37	I	1.0	16.0	1.0	918	918	69	1.5	38	3.0	17	MAINLINE RIGHT (END OF ASPHALT SECTION BEGIN CONCRETE SECTION)
TOTALS CARRIED TO GENERAL SUMMARY									1772	134	74	32				



LOCATION											REMARKS					
LOCATION	COUNTY	ROUTE	START LOG POINT	END LOG POINT	TYPICAL	PAVEMNT WIDTH			PAVEMENT AREA	254	407	448		617		
						A	B	C		PAVEMENT PLANING 1.5" AVG. DEPTH	TACK COAT	ASPHALT CONCRETE SUFACE COURSE, TYPE IH		COMPACTED AGGREGATE, TYPE A 2.0" AVERAGE DEPTH		
						FT	FT	FT		SY	0.075 GAL PER SY	AVG DEPTH	AVG WIDTH	FT	CY	
SLM	SLM						SY	SY	GAL	IN	CY	FT	CY			
1	FRA	SR 104	419+78	421+79	1	1.0	16.0	1.0	402	402	30	1.5	17	3.0	4	MAINLINE LEFT
									1400	1400	105	1.5	58			VARIOUS ASPHALT INTERSECTIONS
									120					4		VARIOUS AGGREGATE DRIVES
TOTALS CARRIED TO GENERAL SUMMARY										1802	135		75		8	



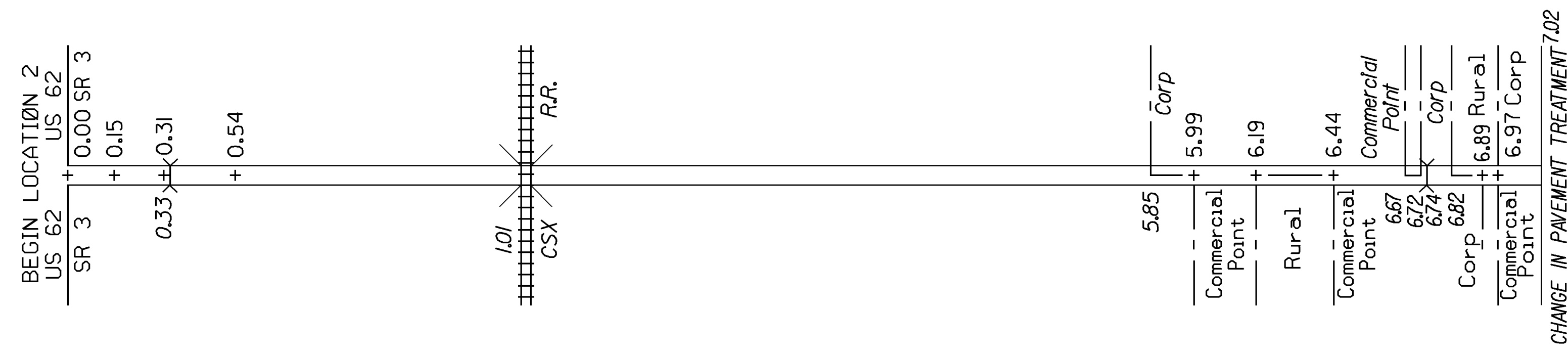
CALCULATED  
CHECKED

**PAVEMENT SUBSUMMARY AND DETAILS**

**FRA -104-6.53**

SEE SHEET 29 FOR PLANING QUANTITIES AT STRUCTURE

SEE SHEET 28 FOR STRUCTURE TREATMENT



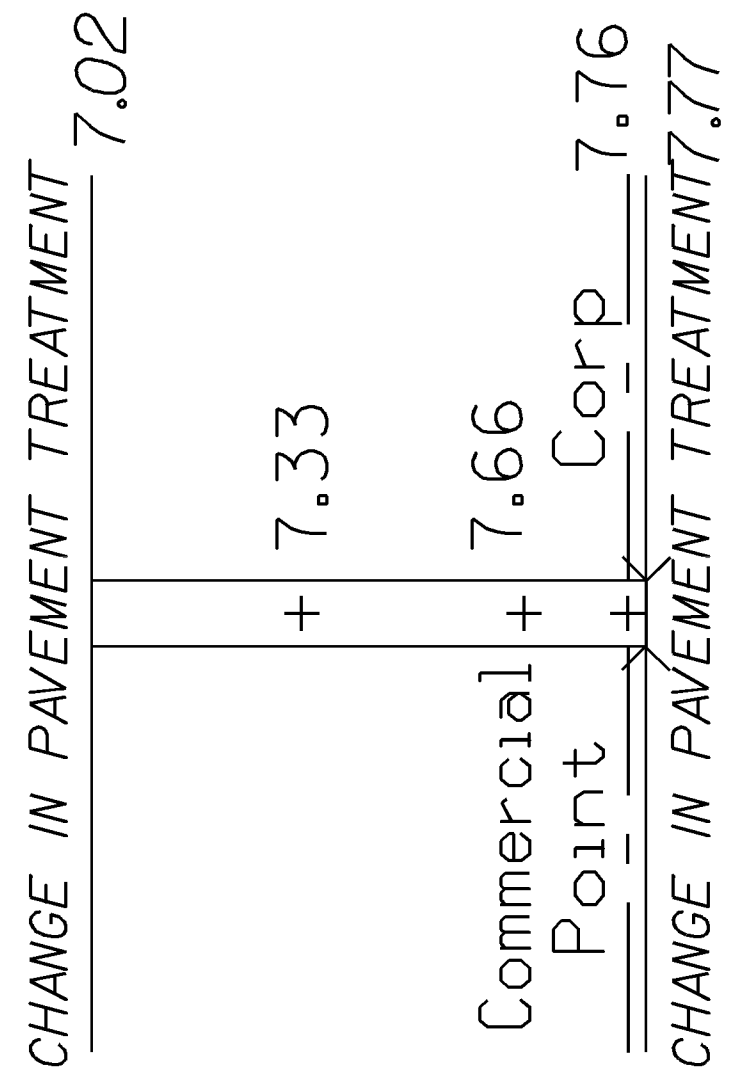
NOTE: AT STRUCTURE SLM 1.01 MILL 1.5" UNDER BRIDGE  
2-75' TAPERS (EACH SIDE) AND 50' FULL DEPTH FOR  
A TOTAL LENGTH OF 200'

\* - FOR TYPICALS SEE SHEET 2

LOCATION							SURFACE ASPHALT										REMARKS			
LOCATION	COUNTY	ROUTE	START LOG POINT	END LOG POINT	LENGTH		TYPICAL	PAVEMENT WIDTH			PAVEMENT AREA	254	407	422	448	604		617		
								A	B	C		TACK COAT	SINGLE CHIP SEAL (AS INTERLAYER UNDER SURFACE COURSE)	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22	MONUMENT BOX ADJUSTED TO GRADE	COMPACTED AGGREGATE AVERAGE 2" DEPTH 1' WIDE				
								FT	FT	FT								SY	GAL	SY
SLM	SLM	MI	FT	FT	FT	SY	SY	GAL	SY	IN	CY	EACH	CY							
2	PIC	SR 762	0.00	0.31	0.31	1637	1	1.0	22.0	1.0	4365		327	4365	1.50	182	1	20		
			0.31	0.54	0.23	1214	1	1.0	24.0	1.0	3508		263	3508	1.50	146		15		
			0.54	7.02	6.48	34214	1	1.0	20.0	1.0	83635		6273	83635	1.50	3485		422		
			0.00			75	1	1.0	22.0	1.0	200	200								PAVEMENT PLANING FOR BEGIN PROJECT BUTT JOINT
			1.01			200	1	1.0	20.0	1.0	489	489								SEE NOTE THIS PAGE
			0.33			-369	1	1.0	24.0	1.0	-1066		-80	-1066	1.50	-44				DEDUCT FOR STRUCTURE
			5.58			-11	1	1.0	20.0	1.0	-27		-2	-27	1.50	-1				DEDUCT FOR STRUCTURE
			5.84			-17	1	1.0	20.0	1.0	-42		-3	-42	1.50	-2				DEDUCT FOR STRUCTURE
			6.74			-59	1	1.0	20.0	1.0	-144		-11	-144	1.50	-6				DEDUCT FOR STRUCTURE
TOTALS CARRIED TO GENERAL SUMMARY											689	6767	90229		3760	1	458			

\* - FOR TYPICALS SEE SHEET 2

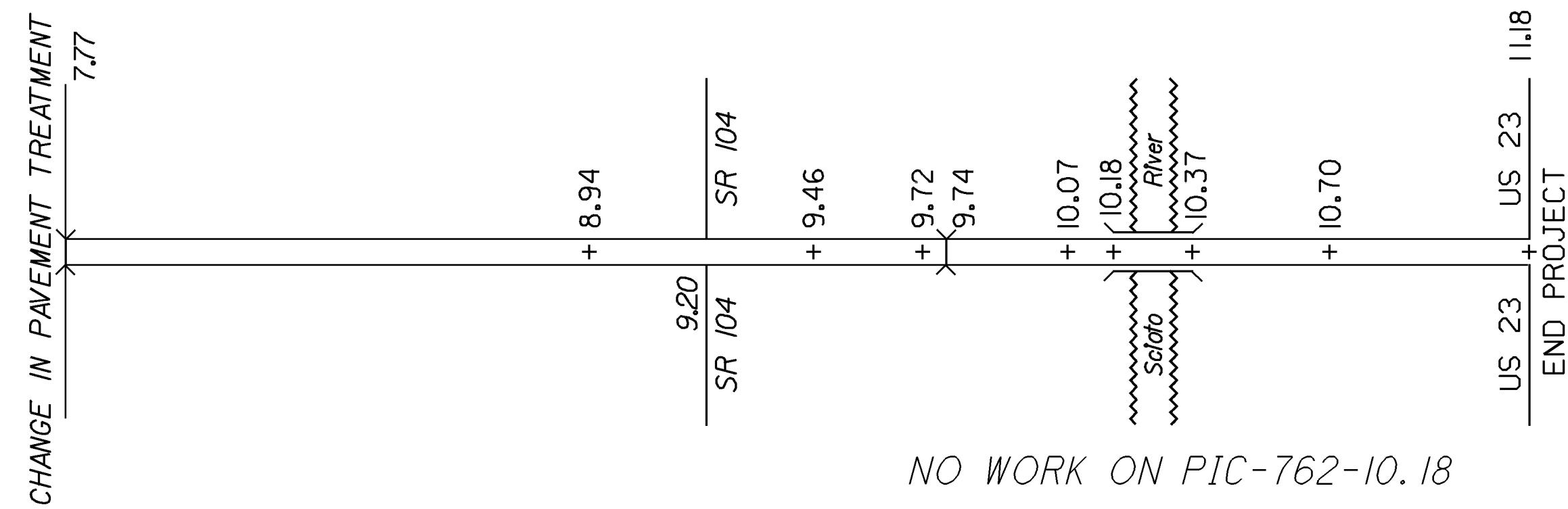
LOCATION							SURFACE COURSE							REMARKS		
LOCATION	COUNTY	ROUTE	START LOG POINT	END LOG POINT	LENGTH		TYPICAL	PAVEMENT WIDTH			PAVEMENT AREA	254	407		448	
			SLM	SLM	MI	FT		A	B	C		PAVEMENT PLANING 1.5" AVERAGE DEPTH	TACK COAT		ASPHALT CONCRETE SURFACE COURSE, TYPE I, PG64-22	
								FT	FT	FT	SY	SY	0.075 GAL PER SY		AVG DEPTH	CY
2	PIC	SR 762	7.02	7.77	0.75	3960	3	1.0	20.0	1.0	9680	9680	726	1.50	403	
TOTALS CARRIED TO GENERAL SUMMARY												9680	726	403		





SEE SHEET 28 FOR STRUCTURE TREATMENTS

SEE SHEET 29 FOR PLANING QUANTITIES AT STRUCTURES



\* - FOR TYPICALS SEE SHEET 2

LOCATION							SURFACE ASPHALT										REMARKS	
LOCATION	COUNTY	ROUTE	START LOG POINT	END LOG POINT	LENGTH		TYPICAL	PAVEMENT WIDTH			PAVEMENT AREA	407	422	448	604	617		
								A	B	C		TACK COAT	SINGLE CHIP SEAL (AS INTERLAYER UNDER SURFACE COURSE)	ASPHALT CONCRETE SURFACE COURSE, TYPE I, PG64-22	MONUMENT BOX ADJUSTED TO GRADE	COMPACTED AGGREGATE AVERAGE 2" DEPTH 1' WIDE		
								FT	FT	FT		0.075 GAL PER SY						AVG DEPTH
SLM	SLM	MI	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	
2	PIC	SR 762	7.77	8.94	1.17	6178	I	1.0	20.0	1.0	15101	1133	15101	1.50	629		76	
			8.94	9.20	0.26	1373	I	1.0	24.0	1.0	3966	297	3966	1.50	165		17	
			9.21	9.46	0.25	1320	I	1.0	24.0	1.0	3813	286	3813	1.50	159		16	
			9.46	10.07	0.61	3221	I	1.0	20.0	1.0	7873	590	7873	1.50	328		40	
			10.07	10.18	0.11	581	I	1.0	24.0	1.0	1678	126	1678	1.50	70		7	
			10.18	10.37	0.19	1003	I	1.0	28.0	1.0	3344	251	3344	1.50	139		12	
			10.37	10.70	0.33	1742	I	1.0	24.0	1.0	5034	378	5034	1.50	210		22	
			10.70	11.18	0.48	2534	I	1.0	18.0	1.0	5632	422	5632	1.50	235	I	31	
			7.77			-73	I	1.0	20.0	1.0	-178	-13	-178	1.50	-7			
			9.12			-11	I	1.0	24.0	1.0	-32	-2	-32	1.50	-1			
			9.74			-71	I	1.0	20.0	1.0	-174	-13	-174	1.50	-7			
			10.18			-1002	I	1.0	28.0	1.0	-3340	-251	-3340	1.50	-139			
											3000	225	3000	1.50	125			
											350	26	350	1.50	15			
											810						45	
TOTALS CARRIED TO GENERAL SUMMARY												3455		46067		1921	I	267

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DETAIL		DETAIL	
GAP	TYPICAL CENTER LINE	7	ONE LANE BRIDGE
1	THRU APPROACH	8	STOP APPROACH
2	HORIZONTAL CURVE	9	TWO WAY LEFT TURN LANE
3	HORIZONTAL CURVE ALTERNATE	10	APPROACH W/LEFT TURN LANE
5	4 LANE UNDIVIDED TO 2 LANE TRANSITION	11	HORIZONTAL CURVE W/RADIUS LESS THAN 1250'
6	MULTILANE DIVIDED-CONTROLLED ACCESS	12	HORIZONTAL CURVE W/RADIUS LESS THAN 820'

LOCATION					REFLECTOR TYPE											TOTAL		REMARKS			
LOCATION	COUNTY	ROUTE	BEGIN LOG	END LOG	DETAIL	ONE WAY					TWO WAY						621		621		
						W	Y	WW	WR		YR	YY	RAISED PAVEMENT MARKER REMOVED	RPM							
									RIGHT EDGE LINE	LANE LINE					LEFT EDGE LINE	RIGHT EDGE LINE	RIGHT EDGE LINE		CHANNEL-IZING LINE	LANE LINE	LEFT EDGE LINE
40	80	120	80	40	80	40	80	80	80	20	40	80	EACH	EACH							
1	FRA	SR 104	6.53	7.19	GAP													44	40	44	BEGIN PROJECT (UUP)
			7.19	7.28	GAP													6	4	6	(UGP)
			7.28	7.78	GAP													33	24	33	BEGINNING OF DIVIDED MAINLINE (UUP)
2	PIC	SR 762	0.00	0.20	8	11	5											29	25	29	STOP APPROACH @ US - 62 (RGP)
			0.20	0.90	11													46	40	46	
			0.90	1.70	GAP													53	50	53	
			1.70	2.10	11													26	26	26	
			2.10	2.50	GAP													26	24	26	
			2.50	4.20	11													112	109	112	
			4.20	5.00	GAP													53	49	53	
			5.00	5.30	11													20	14	20	
			5.30	6.10	GAP													53	51	53	
			6.10	6.97	11													57	55	57	
			6.97	9.19	8	11	5											163	156	163	STOP APPROACH @ SR - 104
			9.20	11.18	8	11	5											147	140	147	STOP APPROACH @ US - 23
TOTALS CARRIED TO GENERAL SUMMARY															807	868					

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LOCATION 1			LOCATION 2														ITEM	EXT.	TOTAL	UNIT	DESCRIPTION	SEE SHT. NO.
FRA-104-6.68 SFN#(2508656)	FRA-104-6.85 SFN#(2508680)	FRA-104-7.52 SFN#(2508702)	PIC-762-0.33 SFN#(6503764) SEAL DECK AND APPROACH SLABS	PIC-762-1.98 SFN#(6503829)	PIC-762-5.58 SFN#(6503853)	PIC-762-5.84 SFN#(6503942)	PIC-762-6.74 SFN#(6503977)	PIC-762-7.77 SFN#(6504000) SEAL DECK AND APPROACH SLABS	PIC-762-9.12 SFN#(6504019)	PIC-762-9.74 SFN#(6504035) SEAL DECK AND APPROACH SLABS	URBAN SYSTEM URBAN PAVING 80 FEDERAL 20 CITY	RURAL SYSTEM GENERAL PAVING 80 FEDERAL 20 STATE										
121	420	72					209				613	209	254	01000	822	SQ YD	PAVEMENT PLANING, ASPHALT CONCRETE					
9	32	5		3	3	4	16		3		46	29	407	10000	75	GALLON	TACK COAT					
				42	35	54	209		44			384	422	10000	973	SQ YD	SINGLE CHIP SEAL					
				2	1	2	9		2			16	448	47020	42	CU YD	ASPHALT CONCRETE SURFACE COURSE, TYPE PG64-22					
5	18	3									26		448	50000	26	CU YD	ASPHALT CONCRETE SURFACE COURSE, TYPE IH					
			1312					260		325		1897	512	10400	1897	SQ YD	TREATING OF CONCRETE BRIDGE DECK WITH SRS					
84	160						128				244	128	SPECIAL	51631200	372	FT	SAWING AND SEALING BITUMINOUS CONCRETE JOINTS	30				

**LOCATION 1**

FRA-104-0668 (2508656)  
 26' CONCRETE CULVERT OVER MARSH RUN  
 EXISTING WS = ASPHALT  
 • MILL AND PAVE OVER WITH SAME TREATMENT AS ROADWAY  
 • SAW AND SEAL JOINTS

FRA-104-0685 (2508680)  
 94' PRESTRESSED CONCRETE BOX BEAM OVER BIG RUN  
 EXISTING WS = ASPHALT  
 • MILL AND PAVE OVER WITH SAME TREATMENT AS ROADWAY  
 • SAW AND SEAL JOINTS

FRA-104-0752 (2508702)  
 18' CONCRETE CULVERT OVER RANCID RUN  
 EXISTING WS = ASPHALT  
 • MILL AND PAVE OVER WITH SAME TREATMENT AS ROADWAY

**LOCATION 2**

PIC-762-0033 (6503764)  
 369' CONTINUOUS STEEL BEAM OVER BIG DARBY CREEK  
 EXISTING WS = CONCRETE  
 • DO NOT DECK OR APPROACH SLABS  
 • SEAL DECK AND APPROACH SLABS WITH SRS (ITEM 512)

PIC-762-0101 (6503780)  
 41' SIMPLE SPAN STEEL BEAM (ABANDONED CSX RAILROAD OVER PIC-762)  
 • PAVEMENT ON PIC-762 SHOULD BE MILLED 1.5" UNDER THE OVERHEAD RR STRUCTURE TO PRESERVE EXISTING CLEARANCE.

PIC-762-0198 (6503829)  
 13' ALUMINUM CULVERT OVER RUSH RUN  
 EXISTING WS = ASPHALT  
 • PAVE OVER WITH SAME TREATMENT AS ROADWAY

PIC-762-0558 (6503853)  
 11' ALUMINUM CULVERT OVER GROVE RUN  
 EXISTING WS = ASPHALT  
 • PAVE OVER WITH SAME TREATMENT AS ROADWAY

PIC-762-0584 (6503942)  
 17' CONCRETE CULVERT OVER GROVE RUN  
 EXISTING WS = ASPHALT  
 • PAVE OVER WITH SAME TREATMENT AS ROADWAY

PIC-762-0674 (6503977)  
 59' PRESTRESSED CONCRETE BOX BEAM OVER GROVE RUN  
 EXISTING WS = ASPHALT  
 • MILL AND PAVE OVER WITH SAME TREATMENT AS ROADWAY  
 • SAW AND SEAL JOINTS

PIC-762-0777 (6504000)  
 73' SIMPLE SPAN STEEL BEAM OVER GROVE RUN  
 EXISTING WS = CONCRETE  
 • DO NOT MILL OR PAVE DECK OR APPROACH SLABS  
 • SEAL DECK AND APPROACH SLABS WITH SRS (ITEM 512)

PIC-762-0912 (6504019)  
 11' ALUMINUM CULVERT OVER FOX DITCH  
 EXISTING WS = ASPHALT  
 • PAVE OVER WITH SAME TREATMENT AS ROADWAY

PIC-762-0974 (6504035)  
 71' CONTINUOUS CONCRETE SLAB OVER PETERS RUN  
 EXISTING WS = CONCRETE  
 • DO NOT PAVE DECK OR APPROACH SLABS  
 • SEAL DECK AND APPROACH SLABS WITH SRS (ITEM 512)

PIC-762-1018 (6504078)  
 1,002' CONTINUOUS STEEL BEAM OVER SCIOTO RIVER  
 EXISTING WS = CONCRETE  
 • DO NOT PAVE DECK OR APPROACH SLABS

CALCULATED CHECKED

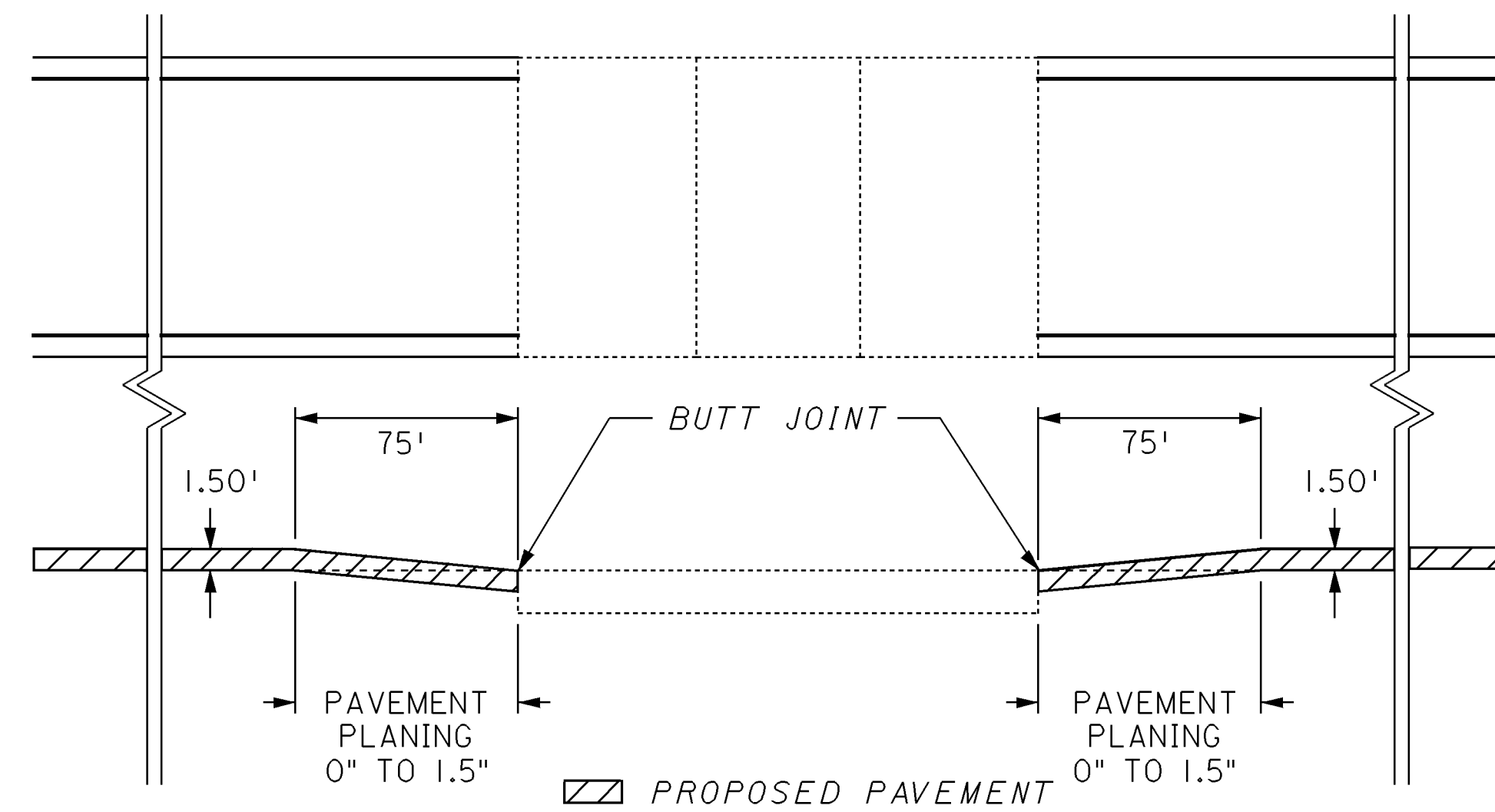
**STRUCTURE QUANTITIES**

**FRA - 104 - 6.53**

28  
40

## STRUCTURE LOCATION

**LOCATION 2**  
**PIC-762-0.33**  
**PIC-762-6.74**  
**PIC-762-7.77**  
**PIC-762-9.74**  
**PIC-762-10.18**



ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE:  
 PLANING TO BE USED AT THE STRUCTURES.  
 QUANTITIES CARRIED TO GENERAL SUMMARY

PIC-762-0.33	=	217 S.Y. X 2	=	434 S.Y.
PIC-762-6.74	=	183 S.Y. X 2	=	366 S.Y.
PIC-762-7.77	=	167 S.Y. X 1	=	167 S.Y.
PIC-762-9.74	=	183 S.Y. X 2	=	366 S.Y.
PIC-762-10.18	=	233 S.Y. X 2	=	466 S.Y.

TOTAL ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE = 1799 S.Y.

**ITEM SPECIAL-SAWING AND SEALING BITUMINOUS CONCRETE JOINTS**

**1) DESCRIPTION:**

THIS WORK SHALL CONSIST OF CUTTING AND SEALING TRANSVERSE JOINTS IN THE NEW BITUMINOUS CONCRETE OVERLAY OF BRIDGES. BITUMINOUS CONCRETE JOINTS SHALL BE CONSTRUCTED DIRECTLY OVER, AND IN LINE WITH, THE EXISTING UNDERLYING TRANSVERSE ABUTMENT AND APPROACH SLAB JOINTS.

**2) MATERIALS:**

THE JOINT SEALANT SHALL MEET THE REQUIREMENTS OF ITEM 705.04, JOINT SEALANTS, HOT-POURED, FOR CONCRETE AND ASPHALT PAVEMENTS. ACCEPTABLE ALTERNATE MATERIALS ARE:

A SILICONE SEALANT MEETING FEDERAL SPECIFICATIONS TT-S-001543A CLASS A (ONE-PART SILICONE SEALANTS) AND TT-S-00230C CLASS A (ONE-COMPONENT SEALANTS), SUCH AS THOSE MANUFACTURED BY GENERAL ELECTRIC, SILICONE PRODUCTS DIVISION, 4015 EXECUTIVE PARK DRIVE, CINCINNATI, OHIO 45242 (513-243-1953) OR DOW CORNING, 400 TECHNE CENTER, SUITE 103, MILFORD, OHIO 45150 (513-831-3586); OR SOF-SEAL, A COLD-APPLIED, LOW-MODULUS, TWO-COMPONENT POLY-MERIC COMPOUND HORIZONTAL SEALANT AS MANUFACTURED BY W.R.MEADOWS, INC., P.O. BOX 543, ELGIN, ILLINOIS 60121 (800-342-5976).

**3) CONSTRUCTION DETAILS:**

A) GENERAL: THE CONTRACTOR SHALL CONDUCT HIS OPERATION SO THAT THE CUTTING, CLEANING AND SEALING OF TRANSVERSE JOINTS IS A CONTINUOUS OPERATION THAT WILL BE PERFORMED AS SOON AS PRACTICAL AFTER THE PAVING, BUT NO LATER THAN FOUR (4) DAYS AFTER PLACEMENT OF THE ASPHALT CONCRETE SURFACE COURSE. TRAFFIC SHALL NOT BE ALLOWED TO KNEAD TOGETHER OR DAMAGE JOINT CUT PRIOR TO SEALING.

B) CUTTING OF TRANSVERSE JOINTS: THE CONTRACTOR SHALL SAW OR ROUT TRANSVERSE JOINTS TO THE DIMENSIONS SHOWN IN THE DETAILS ON THIS SHEET. THE CUT JOINTS SHALL LIE DIRECTLY ABOVE EACH TRANSVERSE JOINT.

THE BLADE OR BLADES SHALL BE OF SUCH SIZE THAT THE FULL WIDTH AND DEPTH OF THE CUT CAN BE MADE WITH ONE PASS. DRY OR WET CUTTING WILL BE ALLOWED. JOINTS SHALL EXTEND THE FULL WIDTH OF THE BRIDGE.

C) CLEANING JOINTS: DRY SAWED JOINTS SHALL BE THOROUGHLY CLEANED WITH A SUFFICIENT AMOUNT OF COMPRESSED AIR TO REMOVE ANY DIRT, DUST, OR DELETERIOUS MATTER. WET SAWED JOINTS SHALL BE WASHED CLEAN OF ALL CUTTINGS BY FLUSHING WITH A JET OF WATER AND WITH OTHER TOOLS AS NECESSARY. AFTER FLUSHING, THE JOINT SHALL BE BLOWN OUT WITH COMPRESSED AIR. WHEN THE SURFACES ARE THOROUGHLY CLEAN AND DRY, AND JUST PRIOR TO PLACING THE JOINT SEALER, COMPRESSED AIR HAVING A PRESSURE OF AT LEAST 90 PSI SHALL BE USED TO BLOW OUT THE JOINT AND REMOVE ALL TRACES OF DUST.

IN THE EVENT FRESHLY CUT JOINTS BECOME CONTAMINATED BEFORE THEY ARE SEALED, THEY SHALL BE RE-CLEANED OF ALL FOREIGN MATERIAL BY HIGH PRESSURE WATER JET.

D) SEALING JOINTS: THE JOINT SHALL BE THOROUGHLY DRY WHEN THE SEALANT IS PLACED. AFTER CLEANING AND DRYING, A BOND-BREAKER MATERIAL SHALL BE APPLIED TO THE BOTTOM OF THE GROOVE.

HOT-POURED JOINT SEALANT MATERIAL SHALL BE HEATED IN A KETTLE OR MELTER CONSTRUCTED AS A DOUBLE BOILER, WITH THE SPACE BETWEEN THE INNER AND OUTER SHELLS FILLED WITH OIL OR OTHER HEAT TRANSFER MEDIUM. POSITIVE TEMPERATURE CONTROL AND MECHANICAL AGITATION SHALL BE PROVIDED. HEATING MUST BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. JOINT SEALER MATERIAL SHALL NEVER BE KEPT HEATED AT THE POURING TEMPERATURE FOR MORE THAN FOUR (4) HOURS AND SHALL NEVER BE REHEATED. SEALER LEFT IN THE APPLICATOR AT THE END OF A DAY'S WORK SHALL NOT BE USED.

HOT-POURED SEALANT SHALL BE APPLIED IMMEDIATELY THROUGH A NOZZLE, WHICH MUST PROJECT INTO THE SAWED JOINT, FILLING FROM THE BOTTOM UP. THE SEALANT SHALL COMPLETELY FILL THE JOINT IN SUCH A MANNER THAT, AFTER COOLING, THE LEVEL OF THE SEALANT WILL NOT BE HIGHER THAN 1/8" BELOW THE PAVEMENT SURFACE. ANY DEPRESSION IN THE COOLED SEAL GREATER THAN 1/4" SHALL BE BROUGHT UP TO THE SPECIFIED LIMIT BY FURTHER ADDITION OF HOT-POURED SEALANT. CARE SHALL BE TAKEN IN THE SEALING OF THE JOINTS SO THAT THE FINAL APPEARANCE WILL PRESENT A NEAT FINE LINE.

THE COLD APPLIED SEALANT MATERIALS (POLYURETHANE, SILICONE, AND POLYMERIC COMPOUNDS) SHALL BE INSTALLED AS PER MANUFACTURERS' RECOMMENDATIONS, EXCEPT AS MODIFIED BY THIS DRAWING. THE SEALANT SHALL BE INSTALLED WHEN THE AMBIENT TEMPERATURE IS 40 DEGREES F OR HIGHER. TRAFFIC SHALL NOT BE ALLOWED ON THE JOINT FOR ONE HOUR AFTER APPLICATION OF THE SEALANT.

**4) METHOD OF MEASUREMENT:**

THE QUANTITY TO BE PAID FOR UNDER THIS ITEM WILL BE THE NUMBER OF LINEAR FEET OF JOINTS SAWED AND SEALED AS PER THE ABOVE REQUIREMENTS.

**5) BASIS OF PAYMENT:**

THE UNIT PRICE PER LINEAR FOOT FOR ITEM SPECIAL - "SAWING AND SEALING BITUMINOUS CONCRETE JOINTS" SHALL INCLUDE THE COST OF ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE THE WORK, INCLUDING THE FURNISHING AND PLACING OF THE JOINT SEALER MATERIAL.

**6) QUANTITY PROVIDED:**

LOCATION 1:

FRA - 104 - 6.68 (CONCRETE CULVERT OVER MARSH RUN)  
 BRIDGE WIDTH = 42'  
 NUMBER OF JOINTS = 2  
 (42' X 2 JOINTS) = 84 LF

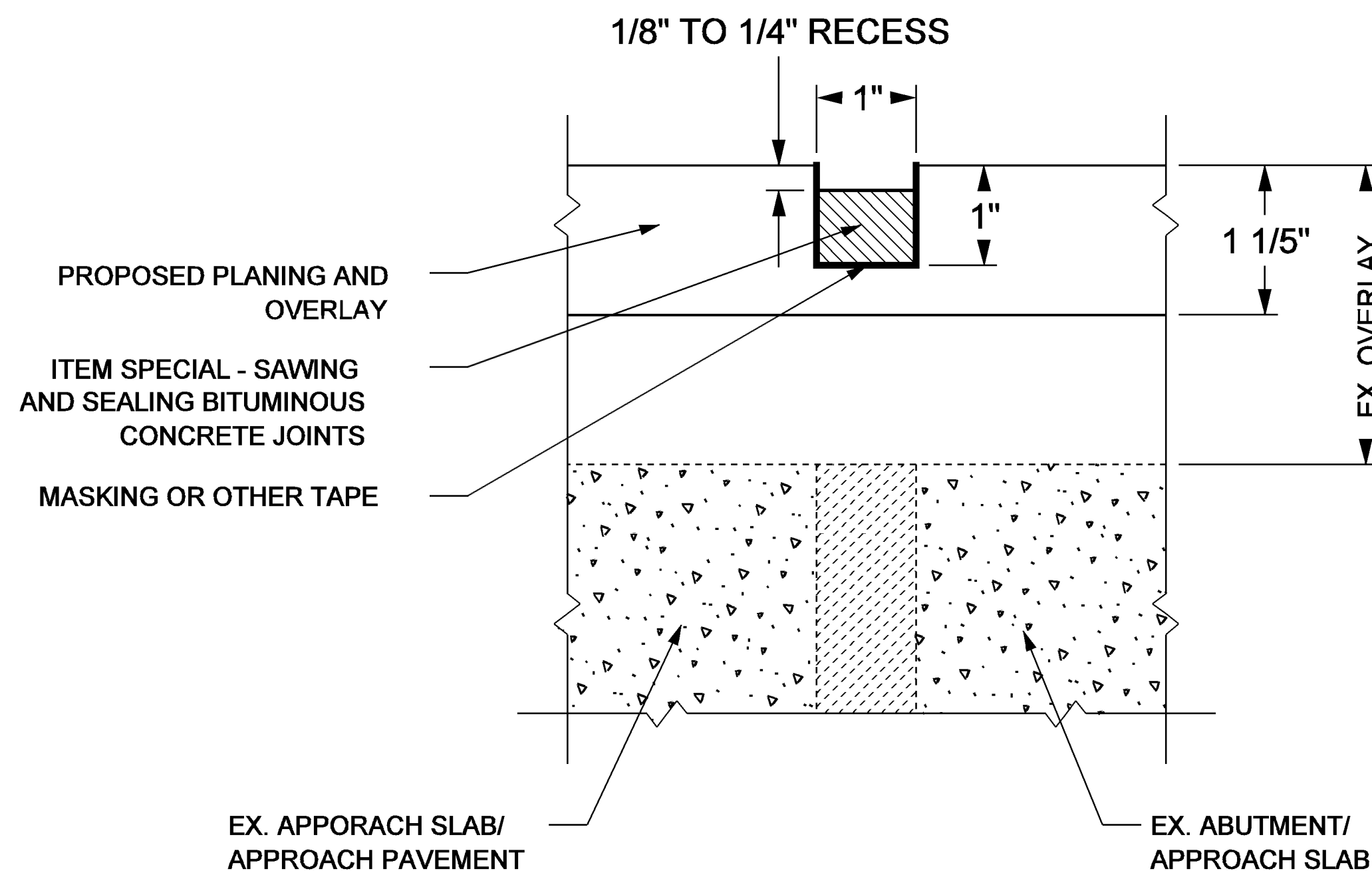
FRA - 104 - 6.85 (PRESTRESSED CONCRETE BOX BEAM OVER BIG RUN)  
 BRIDGE WIDTH = 40'  
 NUMBER OF JOINTS = 4 ( BOTH ENDS OF APPROACH SLABS)  
 (40' X 4 JOINTS) = 160 LF

LOCATION 2:

PIC - 762 - 6.74 (PRESTRESSED CONCRETE BOX BEAM OVER GROVE RUN)  
 BRIDGE WIDTH = 32'  
 NUMBER OF JOINTS = 4 ( BOTH ENDS OF APPROACH SLABS)  
 (32' X 4 JOINTS) = 128 LF

ITEM SPECIAL - "SAWING AND SEALING BITUMINOUS CONCRETE JOINTS" = 372 LF

NOTE: QUANTITY IS CARRIED TO SHEET #28

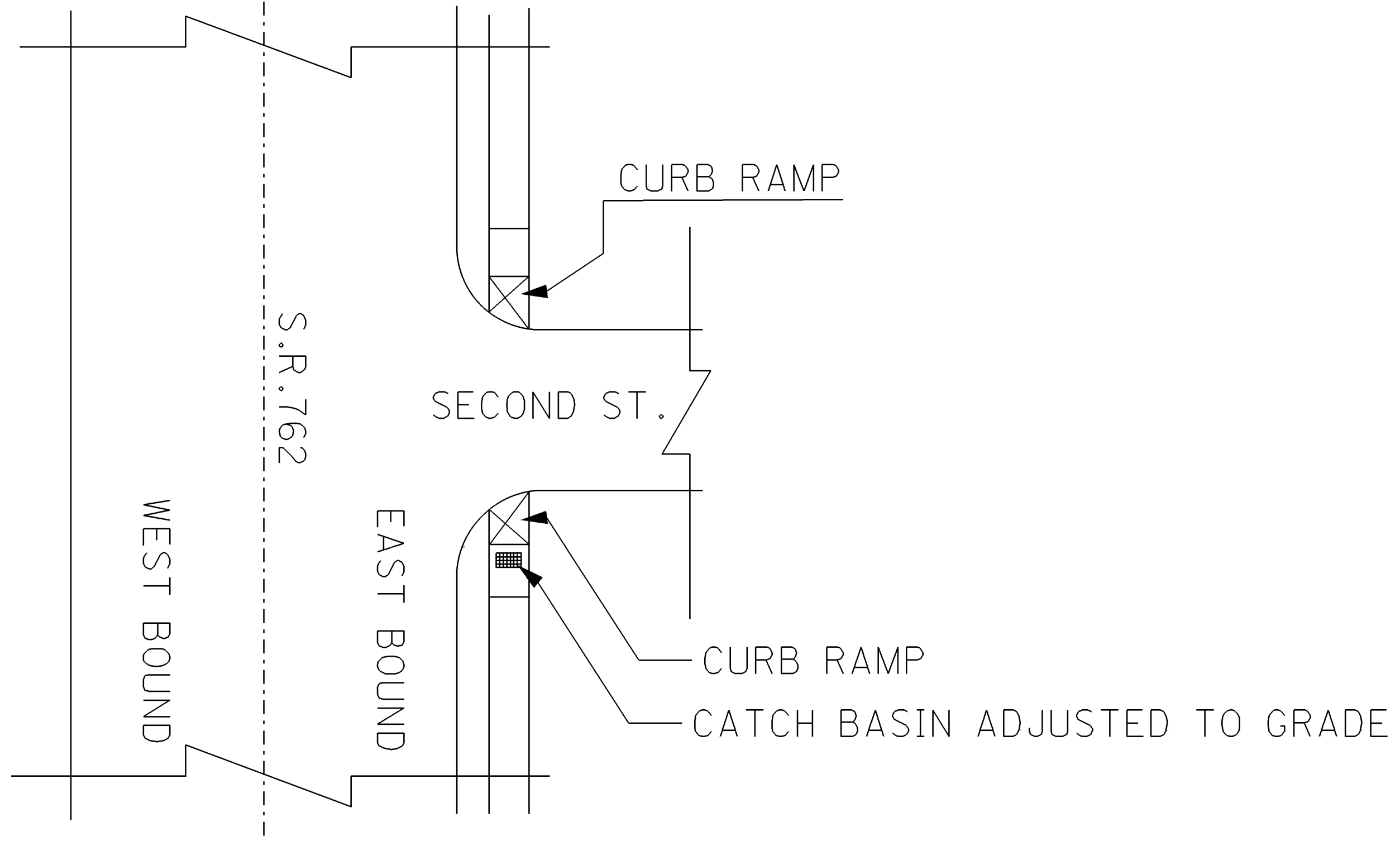


NOTE: THE CONTRACTOR SHALL MARK THE EXISTING APPROACH SLAB JOINT PRIOR TO WORK TO ASSURE THE JOINT SAWING AND SEALING WILL BE PROPERLY PLACED.

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LOCATION	ROUTE	REFERENCE NO.	SHEET No.	INTERSECTING STREET	202	604	608	608												
					WALK REMOVED	CATCH BASIN ADJUSTED TO GRADE	4" CONCRETE WALK	CURB RAMP												
					SF	EACH	SF	SF												
2	PIC 762	1	32	SECOND ST.	72	1	24	48												
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>					72	1	24	48												

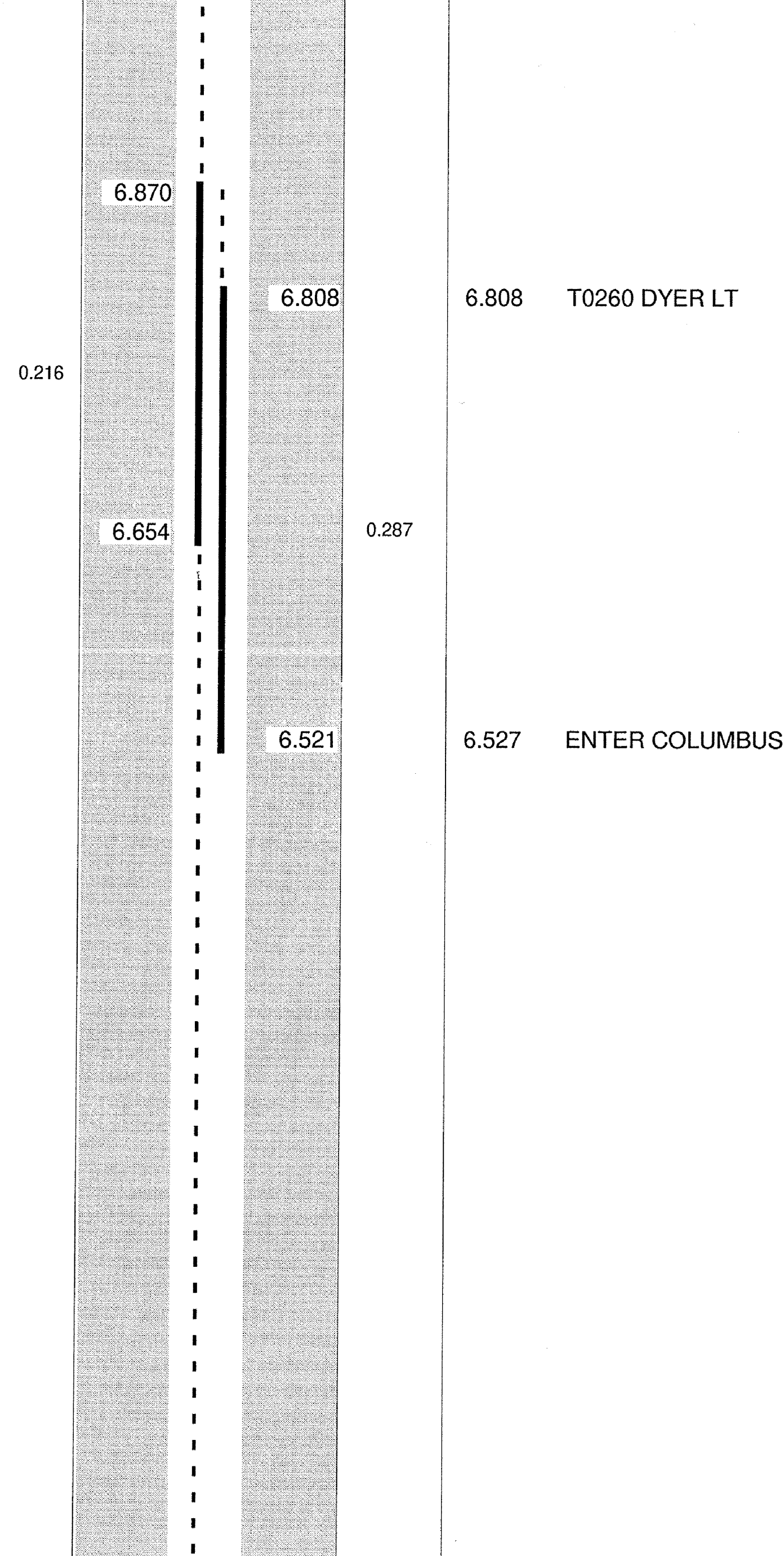


REF. NO. 1



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

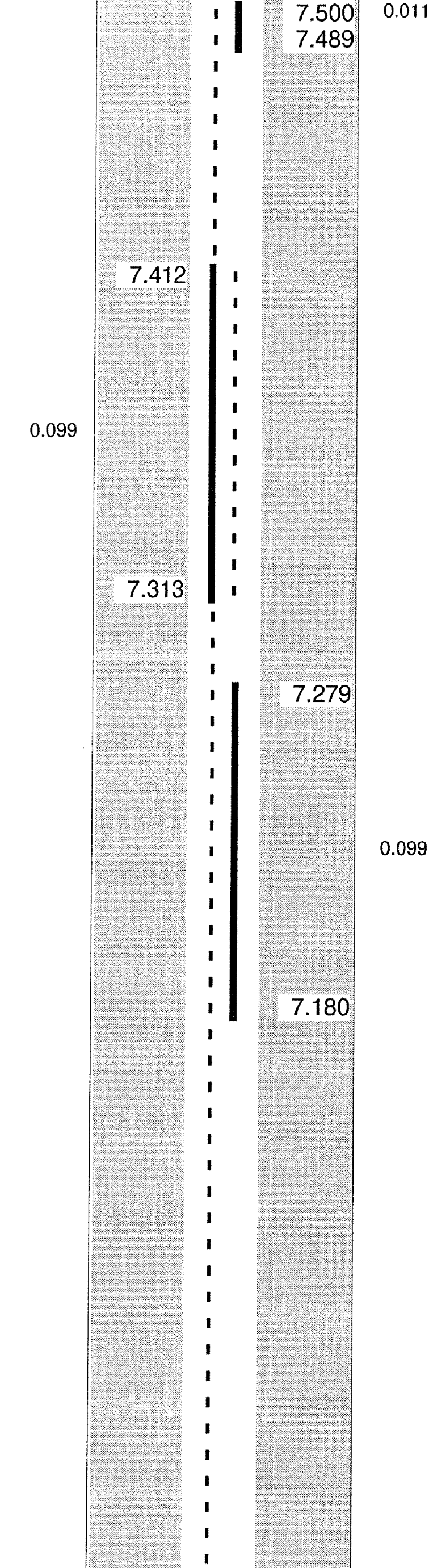
Route: 0104R  
Length: 7.805  
Direction: North  
From: 0.000 LEAVE PIC CO  
To: 7.805 START GRASS MEDIAN  
Scale: 1.00 mile/page



Sheet total equivalent length of solid line: 0.715    Accum. total: 7.863    © 2002 - MasterMind Systems, Inc. - Traffic Safety Suite

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

Route: 0104R  
Length: 7.805  
Direction: North  
From: 0.000 LEAVE PIC CO  
To: 7.805 START GRASS MEDIAN  
Scale: 0.50 mile/page



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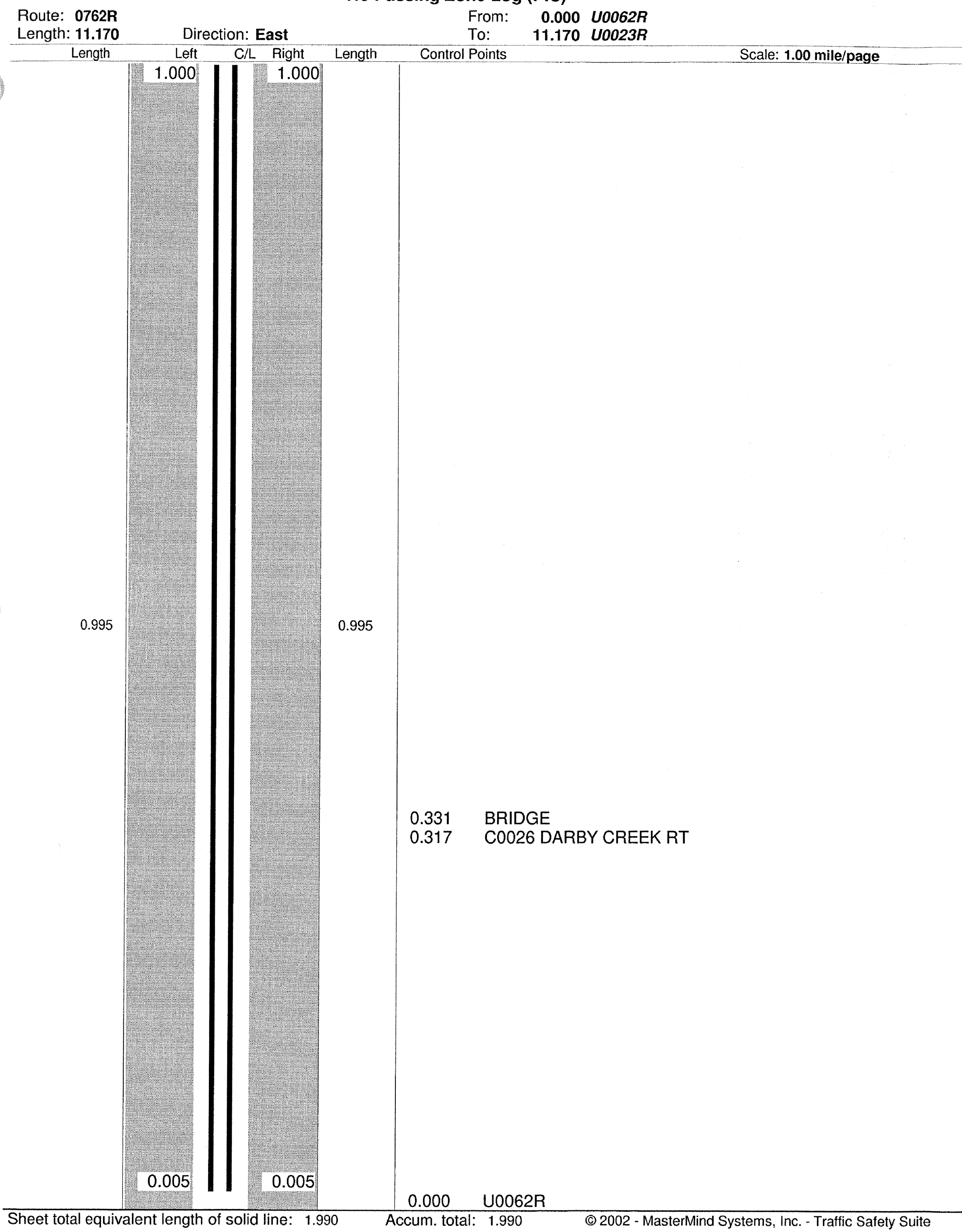
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NO PASSING ZONE LOG

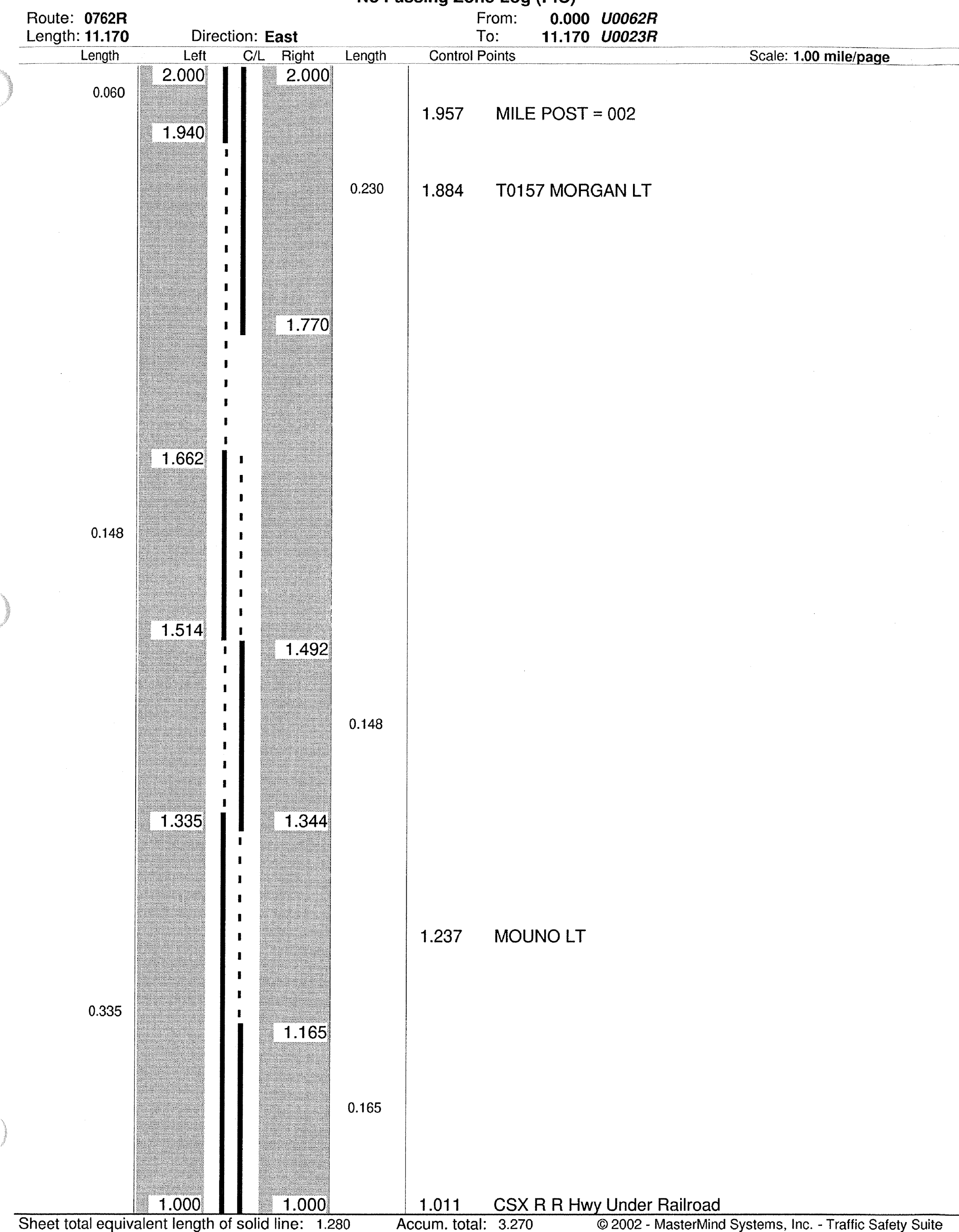
FRA - 104 - 6.53



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



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

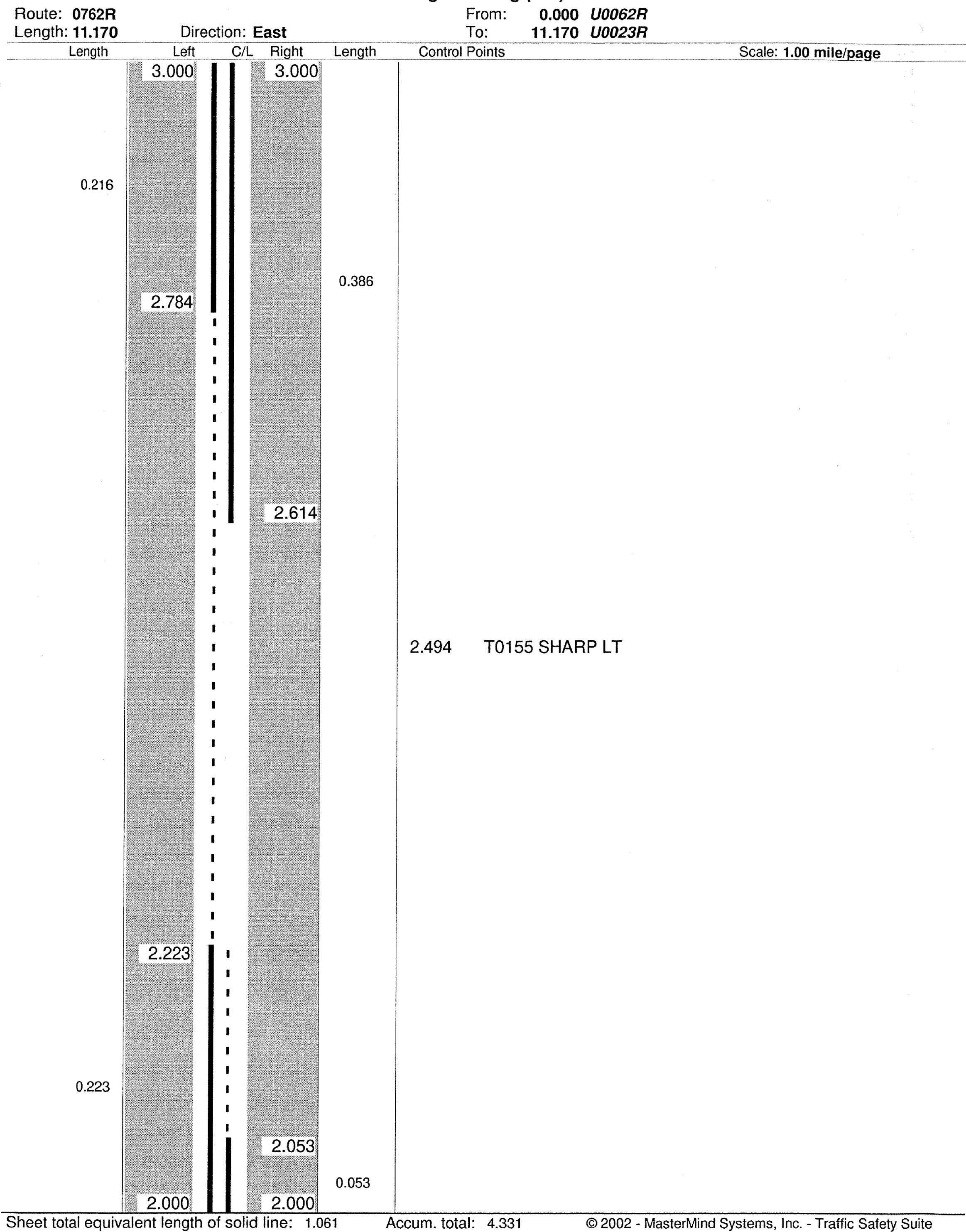


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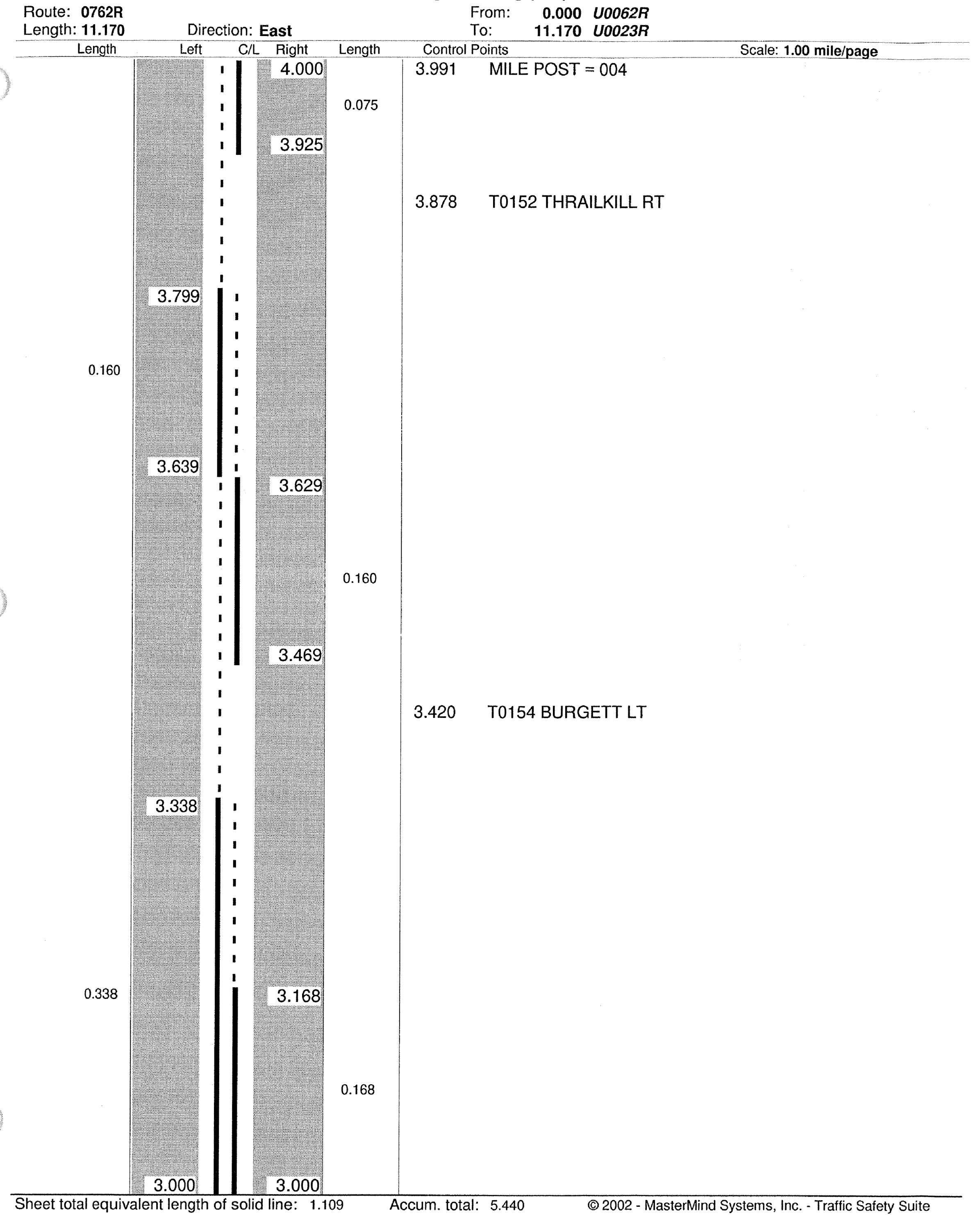
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FRA - 104 - 6.53

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



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



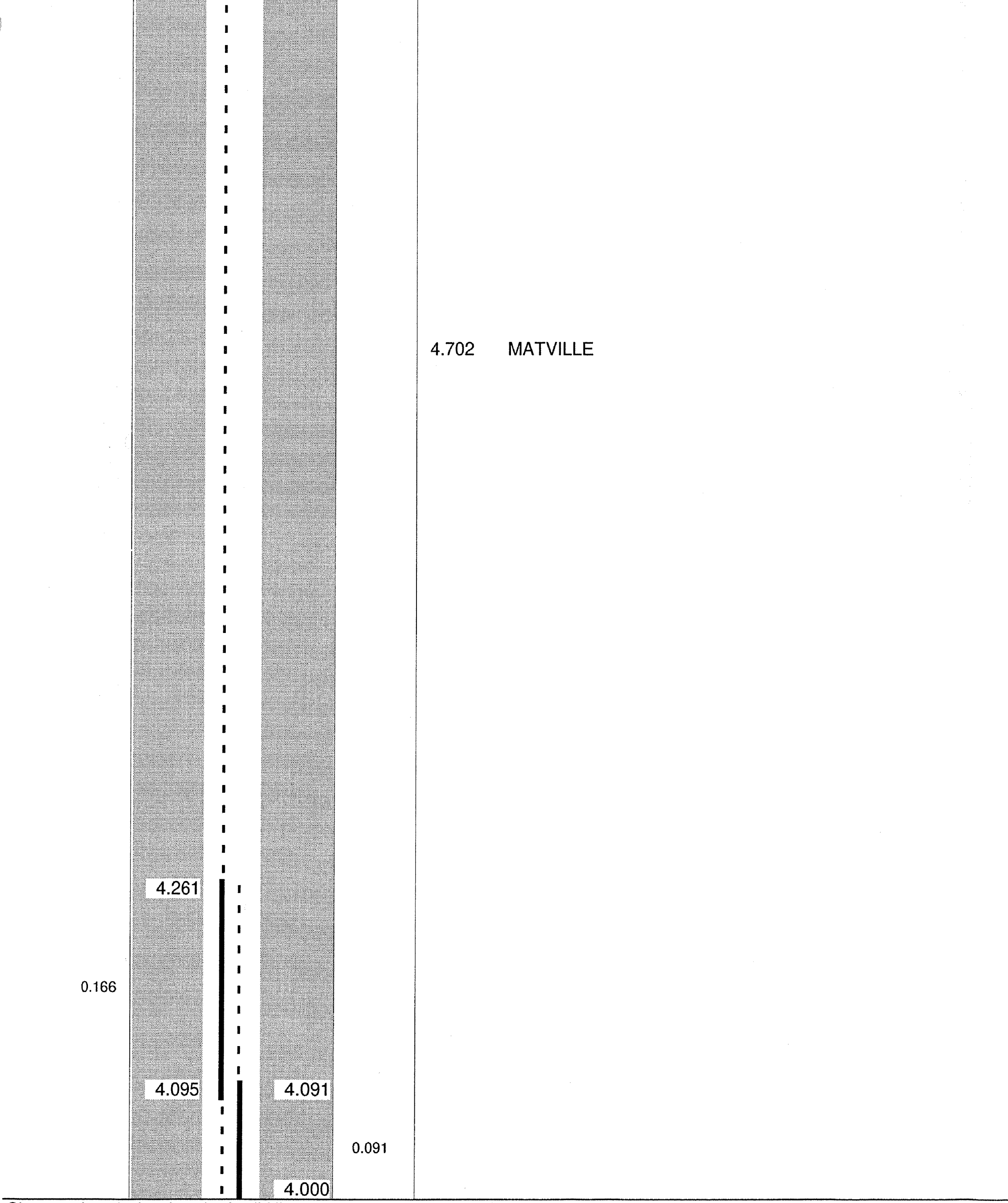
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NO PASSING ZONE LOG

FRA-104-6.53

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

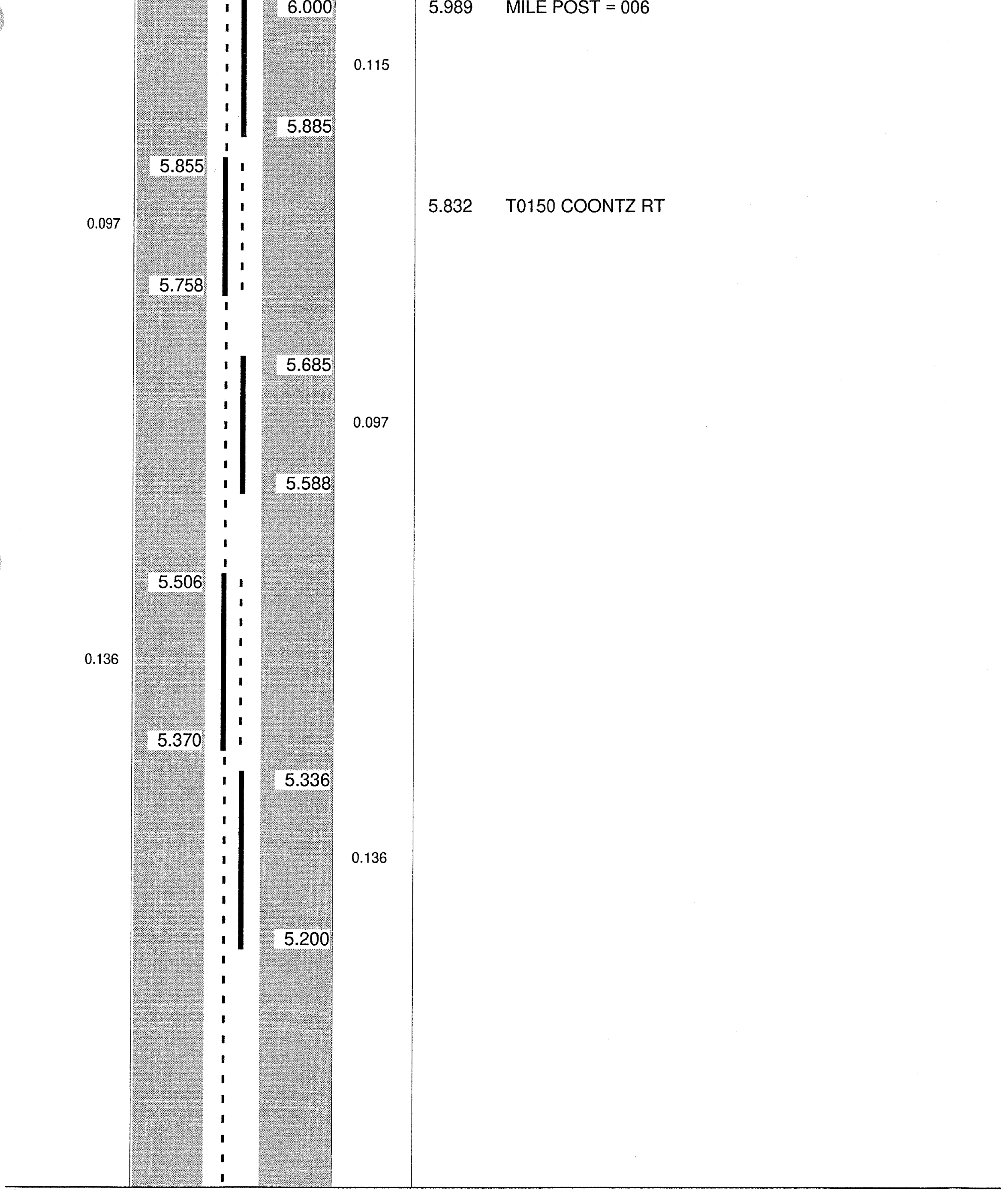
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Length: 11.170 Scale: 1.00 mile/page



Sheet total equivalent length of solid line: 0.507 Accum. total: 5.947 © 2002 - MasterMind Systems, Inc. - Traffic Safety Suite

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

Route: 0762R Direction: East From: 0.000 U0062R To: 11.170 U0023R  
Length: 11.170 Scale: 1.00 mile/page



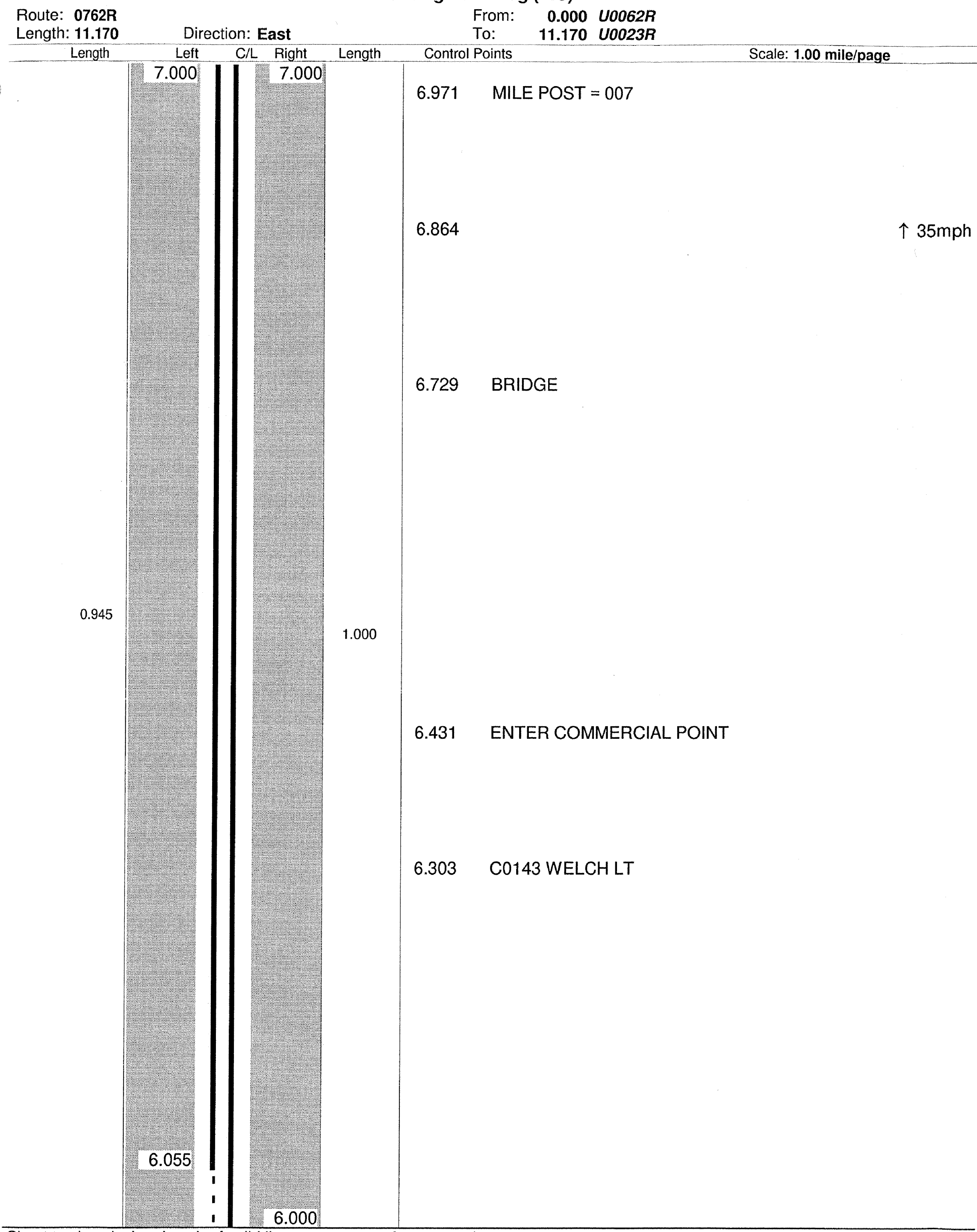
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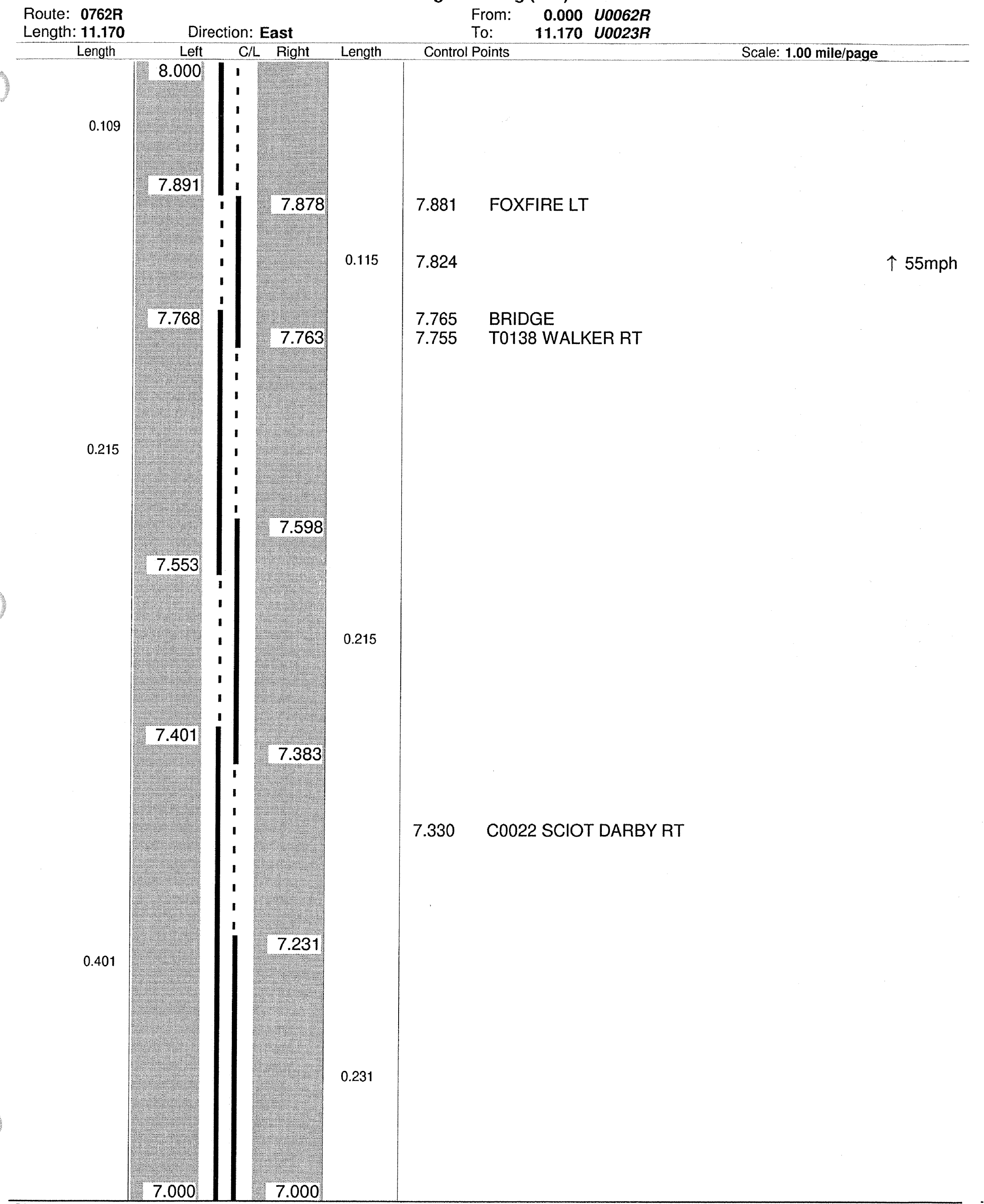
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FRA-104-6.53

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



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



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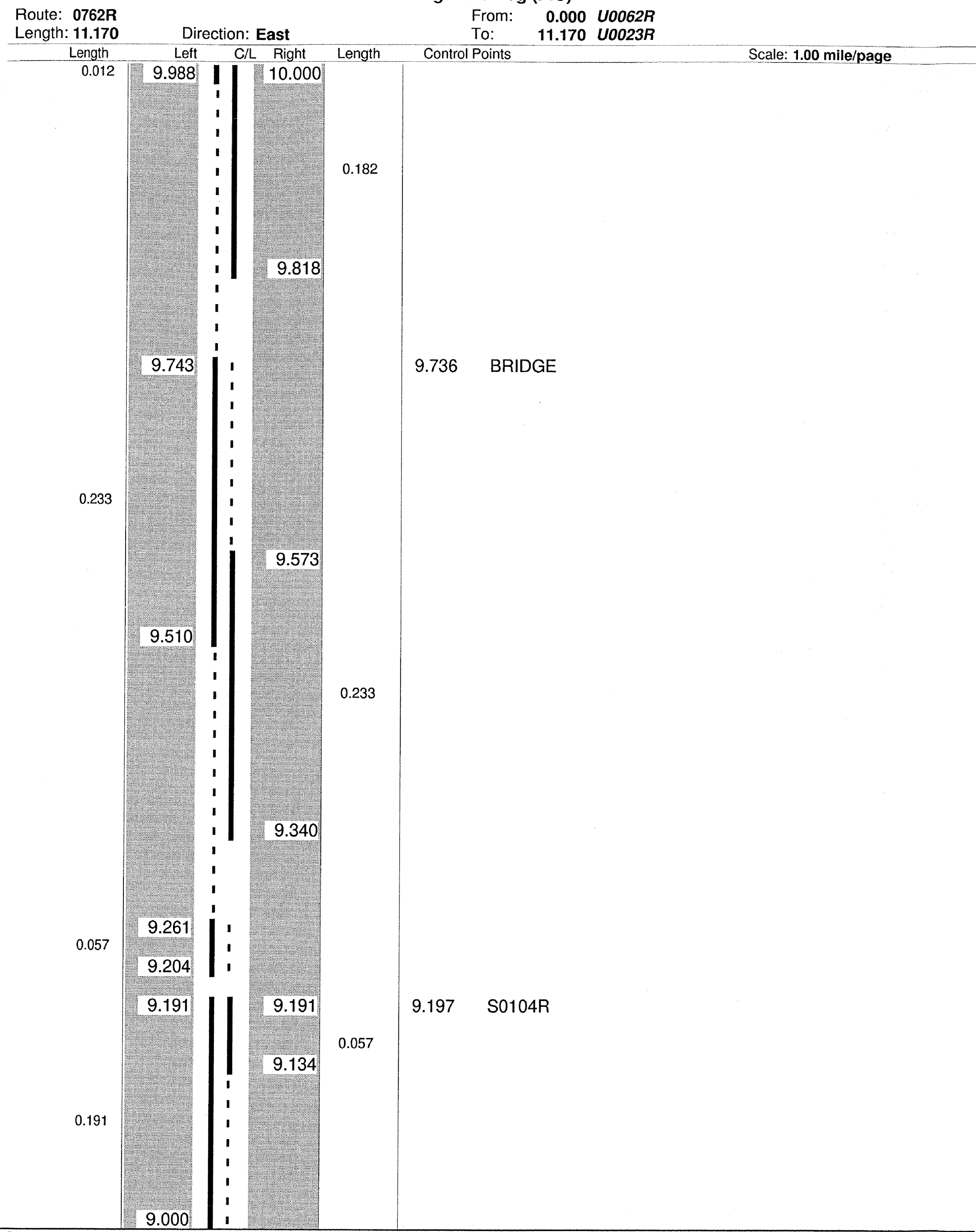
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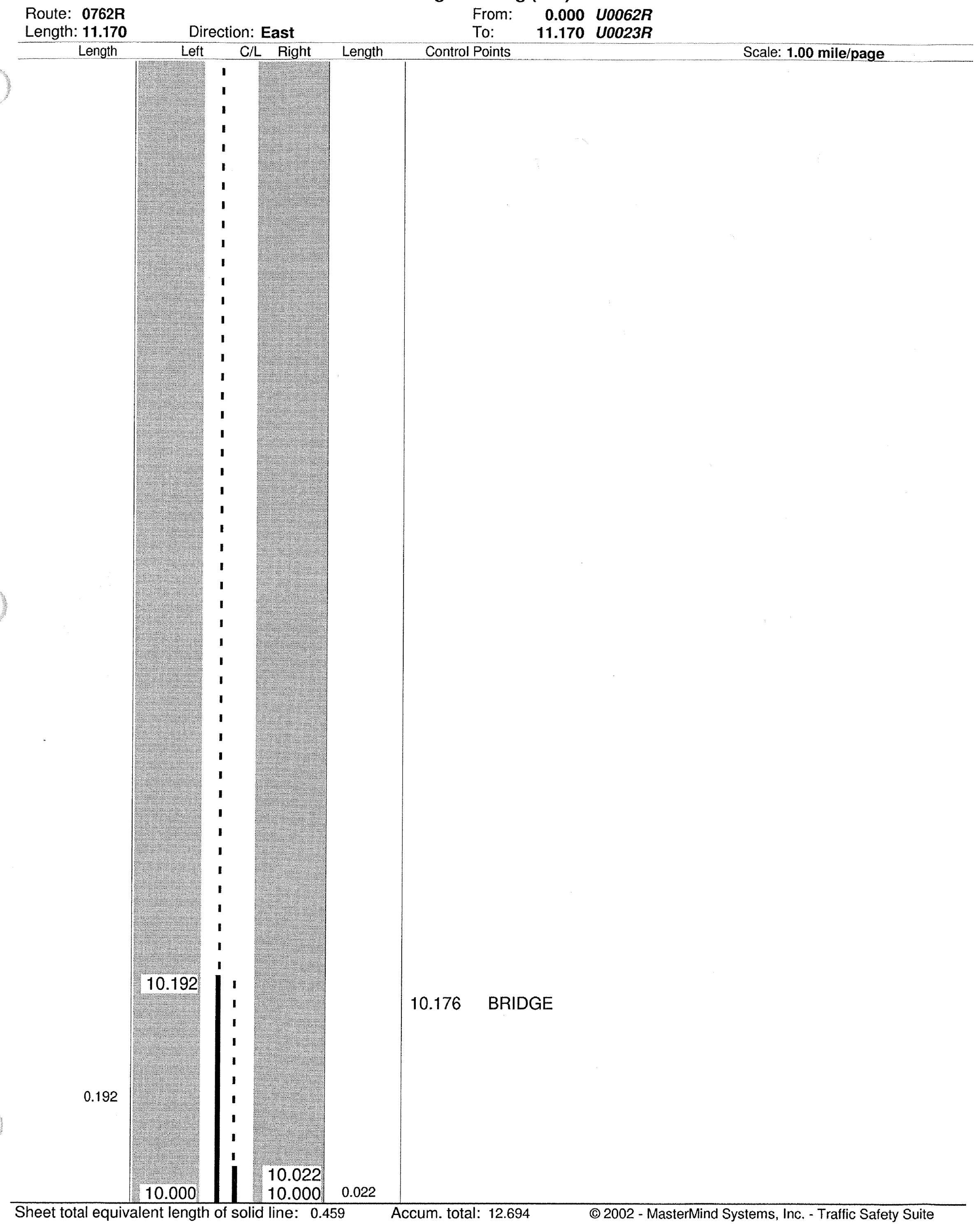
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FRA-104-6.53

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



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



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NO PASSING ZONE LOG

FRA-104-6.53

