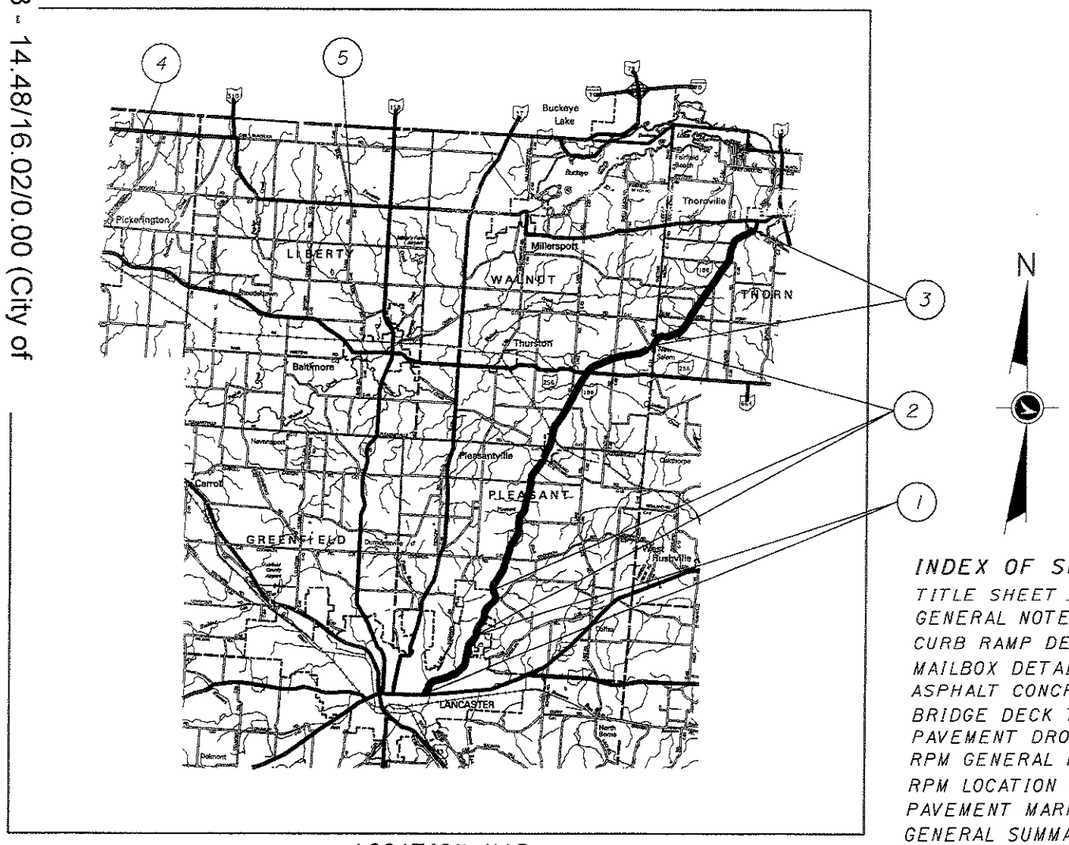
FAI - SR 188 - 14.48/16.02/0.00 (City of
030356 PID - 22642
Dist 5 6/18/2003

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

FAI-188-14.48/FAI-188-16.02/PER-188-0.00

CITY OF LANCASTER
VILLAGE OF PLEASANTVILLE &
VILLAGE OF THORNVILLE
PLEASANT, THORN, &
WALNUT TOWNNSHIPS
FAIRFIELD & PERRY COUNTY



LOCATION MAP
PORTION TO BE IMPROVED

PROJECT DESCRIPTION:

LOCATION 1

RESURFACING OF 1.75 MILES OF S.R. 188 IN THE CITY OF LANCASTER FROM S.L.M. 14.48 THE INTERSECTION OF S.R. 188 AND U.S. 22 TO THE LANCASTER CORP. LINE AT S.L.M. 16.02 AND FROM S.L.M. 16.53 TO S.L.M. 16.74 PAVEMENT PLANING, CURB RAMP REPLACEMENT AND TRAFFIC CONTROL AS INDICATED IN THE PLANS.

LOCATION 2:

RESURFACING 10.30 MILES OF S.R. 188 FROM S.L.M. 16.02 THE LANCASTER CORPORATION LINE TO S.L.M. 16.53 AND 16.74 TO S.L.M. 26.53 THE FAIRFIELD AND PERRY COUNTY LINE. PAVEMENT PLANING, CURB RAMP REPLACEMENT IN THE VILLAGE OF PLEASANTVILLE AND TRAFFIC CONTROL AS INDICATED IN THE PLANS.

LOCATION 3:

RESURFACING OF 4.48 MILES OF S.R. 188 FROM S.L.M. 0.00 THE FAIRFIELD AND PERRY COUNTYLINE TO S.L.M. 4.48 THE INTERSECTION OF S.R. 204 AND S.R. 188 IN THORNVILLE. PAVEMENT PLANING, CURB RAMP REPLACEMENT IN THE VILLAGE OF THORNVILLE AND TRAFFIC CONTROL AS INDICATED IN THE PLANS.

LOCATION	COUNTY	ROUTE	SECTIONS	PROJECT TERMINII		NET LENGTH MILES	CITY	VILLAGE
				BEGIN	END			
1	FAI	188	14.48	14.48/ 16.53	16.02/ 16.74	1.75	LANCASTER	
2	FAI	188	16.02	16.02/ 16.74	16.53/ 26.53	10.30		PLEASANTVILLE
3	PER	188	0.00	0.00	4.48	4.48		THORNVILLE
4	FAI	204	3.21	3.21	3.41	0.20		
5	FAI	204/ TR 223	10.00	10.00/ 0.00	10.20/ 0.02	0.22		

INDEX OF SHEETS:

2002 SPECIFICATIONS

THE STANDARD 2002 SPECIFICATIONS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND THE PROPOSAL SHALL GOVERN THESE IMPROVEMENTS.

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

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

PLAN PREPARED BY:
OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT 5
9600 JACKSONTOWN ROAD
JACKSONTOWN, OHIO 43030

STATE OF OHIO
Curtis L. Zigun
E-55440
REGISTERED PROFESSIONAL ENGINEER
SIGNED: Curtis L. Zigun
DATE: 3/17/2003

STANDARD CONSTRUCTION DRAWINGS

							SUPPLEMENTAL SPECIFICATIONS	
BP-3.1	7-28-00	TC-65.10	10-19-01				857	7-19-02
BP-4.1	7-28-00	TC-65.12	10-19-01				908	4-19-02
BP-7.1	7-28-00	TC-71.10	4-19-02					
		TC-73.10	1-19-01					
MT-97.10	4-19-02							
MT-97.11	4-19-02							
RT-99.20M	1-30-95							
MT-105.10M	4-25-94							
MT-105.11M	4-25-94							
							SPECIAL PROVISIONS	

APPROVED: Christopher T. Engel
DATE 3/21/03 DISTRICT DEPUTY DIRECTOR

APPROVED: Gordon Proctor
DATE 4-2-03 DIRECTOR, DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO. NON FEDERAL
PID NO. 22642
CONSTRUCTION PROJECT NO.
TITLE SHEET
FAI-188-14.48
FAI-188-16.02
PER-188-0.00
1/32

F188001.MTS 3/12/03

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.

FEATHERING

FEATHERING OF THE ASPHALT CONCRETE WHERE REQUIRED SHALL BE ACCORDING TO DRAWING BP-3.1, 7-28-00.

ITEM 617, COMPACTED AGGREGATE, TYPE A, AS PER PLAN

ALL AGGREGATE SHALL BE 100% CRUSHED LIMESTONE. ALL QUALITY REQUIREMENTS EXCEPT SHALE BE WAIVED. OTHER GRADATION REQUIREMENTS SHALL BE AS SPECIFIED EXCEPT THE PLASTICITY INDEX SHALL BE WAIVED. IF SO DIRECTED, THE CONTRACTOR MAY USE RECYCLED ASPHALT CONCRETE PAVEMENT (RACP MEETING REQUIREMENTS OF 617.02) IN LIEU OF CRUSHED LIMESTONE.

TACK COAT

THE RATE OF APPLICATION OF THE 407 TACK COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.075 GALLONS PER SQUARE YARD AND.025 GALLONS PER SQUARE YARD AT THE FACE OF THE TRENCH, FOR ESTIMATING PURPOSES ONLY.

TACK COAT FOR INTERMEDIATE COURSE

THE RATE OF APPLICATION OF THE 407 TACK COAT FOR INTERMEDIATE COURSE SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.05 GALLONS PER SQUARE YARD FOR ESTIMATING PURPOSES ONLY.

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 109.011 OF THE 1997 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 WHERE SUITABLE.

NOTIFICATION OF ROAD CLOSURE OR RESTRICTION

IN ORDER FOR ODOT TO PROPERLY PERMIT OVERSIZE LOADS, PREPARE PROPER SIGNING WHEN REQUIRED AND FURTHER TO NOTIFY THE GENERAL MOTORING PUBLIC, THE CONTRACTOR SHALL NOTIFY (IN WRITING) THE DISTRICT 5 HIGHWAY MANAGEMENT ADMINISTRATOR WITH COPIES FOR THE DISTRICT 5 ROADWAY SERVICES MANAGER AND PROJECT ENGINEER NOT LESS THAN 21 DAYS BEFORE SUCH CLOSURE OR LANE RESTRICTIONS.

SEND NOTIFICATION TO:

DISTRICT 5 HIGHWAY MANAGEMENT ADMINISTRATOR
P.O. BOX 306
JACKSONTOWN, OH. 43030
PHONE: (740) 323-4400 EXT. 5241

RESIDENCE AND COMMERCIAL DRIVES

An estimated quantity of Item 448 Asphalt Concrete has been included in the plan to be used as directed by the Engineer to pave approach areas to existing driveways. Paving shall typically extend 4' into the driveway (measured from the edge of the pavement).
There are 5 types of drives: concrete, asphalt, gravel, gravel with asphalt apron, and field/oil well drives. Field drives and oil well drives shall not be paved. Gravel drives shall be paved back 4' into the driveway. Concrete and asphalt drives shall have butt joints or as short a asphalt taper as possible (up to 4') as directed by the Engineer so as to provide a smooth transition. Gravel drives with asphalt aprons shall also have butt joints or as short a asphalt taper a possible (up to 4') but only if the existing asphalt apron is in an acceptable condition to be paved over as directed by the Engineer.
Tack coat, materials, labor, equipment tools and incidentals necessary to complete the drives shall be included in the unit price bid for the following items:

LOCATION 1

ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG 64-22	12 CU.YD.
ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22	12 CU.YD.

LOCATION 2

ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG 64-22	40 CU.YD.
ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22	40 CU.YD.

LOCATION 3

ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG 64-22	20 CU.YD.
ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22	20 CU.YD.

ITEM 202 REMOVAL MISC.: RESIDENCE AND COMMERCIAL DRIVES

This item shall cover the cost of grading, excavating, milling, material, labor, equipment, tools, and incidental's necessary to prepare the drives for paving. When a gravel drive with a asphalt apron cannot be paved over (for example, broken into small pieces) as determined by the Engineer, it must be completely removed before paving. Paving shall extend only 4' into this drive. The rest of the drive shall receive #57 limestone as directed by the Engineer. This item shall also cover all the costs necessary to prepare the drives for the #57 limestone. The quantities shown below have been carried to the General Summary for the purpose described above.

Item 202 Removal Misc.: Residence and Commercial Drives 100 Sq.Yd.

ITEM SPECIAL-MISC.: #57 LIMESTONE FOR DRIVES

This item shall be used only on drives where the existing asphalt apron is removed and the Engineer directs the contractor to extend the gravel drive to meet the new asphalt apron. This item shall cover all the cost for material, labor, equipment and incidentals to place the #57 Limestone. The quantity shown below has been carried to the General Summary for the purpose described above.

Item Special - Misc.: #57 Limestone for Drives 5 Ton

ITEM 632 DETECTOR LOOP, AS PER PLAN

ALL DETECTOR LOOPS SHALL BE CUT INTO THE EXISING PAVEMENT PRIOR TO THE PLANING OPERATION AT A DEPTH SO AS NOT TO BE DISTURBED.
PLACEMENT SHALL BE AS PER SPECIFICATION 632.10. ALL MATERIALS (INCLUDING SPLICE KITS), LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO FURNISH A COMPLETED, IN PLACE, WORKING DETECTOR LOOP SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 632 DETECTOR LOOP, AS PER PLAN. ALL LOCATIONS, SIZES AND ORIENTATIONS SHALL BE VERIFIED AND SUPPLIED TO THE CONTRACTOR BEFORE CONSTRUCTION.

LOCATION 1 - (CITY OF LANCASTER)

ITEM 632 DETECTOR LOOP, AS PER PLAN 10 EACH

CALCULATED | CHECKED

GENERAL NOTES

FAI-188-14.48
FAI-188-16.02
PER-188-0.00

F166002.MGW 2/6/03

ITEM 253 - PAVEMENT REPAIR, AS PER PLAN

AN ESTIMATED QUANTITY FOR PAVEMENT REPAIR HAS BEEN INCLUDED IN THE PLAN TO BE USED AS DIRECTED BY THE ENGINEER. THIS OPERATION SHALL BE PERFORMED BEFORE THE PLANING OPERATION.
THE INTENT OF THIS OPERARTION IS TO REPAIR THOSE AREAS OF PAVEMENT OR SHOULDERS WHICH HAVE FAILED AND NOT TO CORRECT SURFACE IRREGULARITIES.
THE DEPTH OF EXCAVATION SHALL BE APPROXIMATELY 7". AFTER EXCAVATION HAS BEEN COMPLETED, THE FACE OF THE REPAIR SHALL BE COATED WITH 407 TACK COAT. REPLACEMENT MATERIAL WILL BE 7" OF ITEM 301 ASPHALT CONCRETE BASE, PG64-22 (PLACED AND COMPACTED AS DIRECTED). ALL EXCAVATION NEEDED TO ACHIEVE THE PROPER SLOPES FOR DRAINAGE ON BERMS AND ALL MATERIALS, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NEEDED TO COMPLETE THE WORK DESCRIBED ABOVE SHALL BE PAID FOR UNDER ITEM 253 PAVEMENT REPAIR, AS PER PLAN.

THE FOLLOWING CONTINGENCY QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR THE ABOVE DESCRIBED PURPOSE.

ITEM 253 PAVEMENT REPAIR, AS PER PLAN	500 SQ.YD. (LOCATION 1)
ITEM 253 PAVEMENT REPAIR, AS PER PLAN	1,250 SQ.YD. (LOCATION 2)
ITEM 253 PAVEMENT REPAIR, AS PER PLAN	750 SQ.YD. (LOCATION 3)

SHOULDER RESTORATION

IN ORDER TO PROVIDE POSITIVE DRAINAGE FROM THE ROADWAY SURFACE TO THE SHOULDER BREAK, THE EXISTING ROADWAY SHOULDERS SHALL BE GRADED AND SHAPED USING A GRADER OF ADEQUATE SIZE TO PERFORM THE WORK TO THE SATISFACTION OF THE ENGINEER. PAYMENT FOR ALL OF THE ABOVE GRADING AND SHAPING WORK, INCLUDING LABOR AND INCIDENTALS, SHALL BE THE UNIT PRICE BID FOR ITEM SPECIAL - GRADER RENTAL, AND SHALL BE PAID FOR THE ACTUAL NUMBER OF GRADER HOURS WORKED.
ALL EXCESS MATERIAL REMAINING AROUND GUARDRAIL AND OTHER AREAS AFTER THE GRADER WORK IS COMPLETED AND NOT DISPOSED OF ON THE SITE, SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. PAYMENT FOR ALL OF THE ABOVE REMOVAL WORK SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL - LOADER RENTAL, AND SHALL BE FOR THE ACTUAL NUMBER OF LOADER HOURS WORKED. ANY OTHER EQUIPMENT, LABOR OR INCIDENTALS REQUIRED TO COMPLETE THIS ITEM SHALL BE INCLUDED THEREIN FOR PAYMENT.
THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE ABOVE PURPOSES.

ITEM SPECIAL	LOCATION 1	LOCATION 2	LOCATION 3
GRADER RENTAL (HOURS)	2	10	6
LOADER RENTAL (HOURS)	1	5	3

MAINTENANCE OF TRAFFIC

IN AREAS WHERE THE PAVEMENT IS TO BE PLANED,
PLACING OF THE ASPHALT CONCRETE INTERMEDIATE COURSE,
SHALL OCCUR AS CLOSE BEHIND THE PLANING OPERATION
AS POSSIBLE SUCH THAT TRAFFIC SHALL NOT BE MAINTAINED ON THE MILLED SURFACE AT THE END OF THE WORK DAY.
PROPOSED SHOULDER WIDENING SHALL BE CONSTRUCTED PRIOR TO THE PAVEMENT PLANING OPERATION.

ITEM 202 RAISED PAVEMENT MARKERS, REMOVED FOR STORAGE

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE PLANS TO REMOVE RAISED PAVEMENT MARKERS FOR STORAGE. THE FAIRFIELD COUNTY MANAGER SHALL BE CONTACTED FOR INSTRUCTIONS ON WHERE TO DELIVER THE RAISED PAVEMENT MARKERS.

ITEM 202 RAISED PAVEMENT MARKERS, REMOVED FOR STORAGE (LOCATION 2)	964 EACH
ITEM 202 RAISED PAVEMENT MARKERS, REMOVED FOR STORAGE (LOCATION 3)	390 EACH

ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN
(CITY OF LANCASTER, VILLAGE OF PLEASANTVILLE & VILLAGE OF THORNVILLE)

IN THE AREAS TO BE PLANED, THE ENTIRE ROADWAY SURFACE SHALL BE PLANED TO A DEPTH AS INDICATED IN THE PLANS, AS DIRECTED BY THE ENGINEER. THE ROADWAY SHALL BE PLANED SUCH THAT A MINIMUM SLOPE OF 0.0156 FT/FT IS CREATED FROM THE CENTER LINE TO THE EDGE OF PAVEMENT. THIS MAY REQUIRE ADDITIONAL MILLING DEPTH DUE TO EXISTING GRADER PATCHES, SURFACE CRACKING AND PAVEMENT REPAIR.
ALL SPECIFICATIONS OF ITEM 254 SHALL APPLY.

PLACING OF THE ASPHALT CONCRETE INTERMEDIATE COURSE, SHALL OCCUR AS CLOSE BEHIND THE PLANING OPERATION AS POSSIBLE SUCH THAT TRAFFIC SHALL NOT BE MAINTAINED ON THE MILLED SURFACE AT THE END OF THE WORK DAY.

TWO THOUSAND (2000) TONS OF GRINDINGS FROM THE PLANING OPERATION SHALL BE DELIVERED TO THE OHIO DEPARTMENT OF TRANSPORTATION: FAIRFIELD COUNTY GARAGE ON U.S. 33 IN LANCASTER. THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN.

THE QUANTITY FOR ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN IS SHOWN ON SHEETS 11-18 AND IS CARRIED TO THE GENERAL SUMMARY FOR THE ABOVE DESCRIBED PURPOSE.

SPOT LEVELING COURSE

THE FOLLOWING QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE PROJECT ENGINEER IN ORDER TO RESTORE THE CROWN OF THE EXISTING PAVEMENT. THE SPOT LEVELING COURSE SHALL BE USED AND PLACED IN A SEPARATE OPERATION WHERE MORE THAN 1.25 INCHES OF CORRECTION IS NECESSARY. THIS OPERATION SHALL BE PERFORMED BEFORE THE PAVING OF THE INTERMEDIATE COURSE.
THE FOLLOWING QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY TO PERFORM THE WORK AS DESCRIBED ABOVE.

LOCATION 1	
ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG 64-22	50 CU.YD.
LOCATION 2	
ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG 64-22	200 CU.YD.
LOCATION 3	
ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG 64-22	100 CU.YD.

ITEM 614 WORK ZONE STRIPING

THE FOLLOWING QUANTITIES HAVE BEEN PROVIDED TO TEMPORARILY STRIPE THE AUXILARY MARKINGS ON THE INTERMEDIATE COURSE AS DIRECTED BY THE PROJECT ENGINEER IN THE VILLAGE OF NEW LEXINGTON ON S.R. 13 AND S.R. 345.

LOCATION 1 (CITY OF LANCASTER)

ITEM 614 WORK ZONE CHANNELIZING LINE, CLASS I, 642 PAINT	1,165 FT.
ITEM 614 WORK ZONE STOP LINE, CLASS I, 642 PAINT	448 FT.
ITEM 614 WORK ZONE CROSSWALK LINE, CLASS I, 642 PAINT	1,094 FT.
ITEM 614 WORK ZONE LANE ARROW, CLASS I, 642 PAINT	22 EACH

LOCATION 2 (S.R. 188 VILLAGE OF PLEASANTVILLE)

ITEM 614 WORK ZONE STOP LINE, CLASS I, 642 PAINT	274 FT.
ITEM 614 WORK ZONE CROSSWALK LINE, CLASS I, 642 PAINT	690 FT.

LOCATION 3 (S.R. 188 VILLAGE OF THORNVILLE)

ITEM 614 WORK ZONE STOP LINE, CLASS I, 642 PAINT	90 FT.
ITEM 614 WORK ZONE CROSSWALK LINE, CLASS I, 642 PAINT	478 FT.

CALCULATED
CHECKED

GENERAL NOTES

FAI-188-14.48
FAI-188-16.02
PER-188-0.00

F188003.MGH 3/7/03

ITEM 614 WORK ZONE MARKING SIGNS

A QUANTITY OF WORK ZONE MARKING SIGNS HAS BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER.

WORK ZONE MARKING SIGNS	LOCATION 1	LOCATION 2	LOCATION 3
OW-171 (UNEVEN LANE SYMBOL)	24	44	24
OWP-171 (UNEVEN LANES)	24	44	24
OW-167 (NO EDGE LINES)	6	44	24
R-33 (DO NOT PASS)	26	46	26
R-34 (PASS WITH CARE)	0	46	26
OW-128 (ROAD CONSTRUCTION AHEAD)	20	40	20
OC-8 (END CONSTRUCTION)	20	40	20
SUB TOTALS	120	304	164
TOTAL (CARRIED TO THE GENERAL SUMMARY)		588	

ITEM 604 INLET ADJUSTED TO GRADE
ITEM 604 MANHOLE ADJUSTED TO GRADE
ITEM 604 CATCH BASIN ADJUSTED TO GRADE
ITEM 638 VALVE BOX ADJUSTED TO GRADE

EXISTING INLETS, MANHOLES, CATCH BASINS AND VALVE BOXES THAT ARE TO BE ADJUSTED TO GRADE ARE LISTED BELOW, THESE NUMBERS ARE TAKEN FROM FIELD COUNTS, HOWEVER THE ACTUAL NUMBER THAT ARE TO BE ADJUSTED TO GRADE WILL BE DETERMINED BY THE ENGINEER AT THE TIME OF CONSTRUCTION, PAYMENT SHALL BE FOR THE ACTUAL NUMBERS OF EACH ITEM THAT ARE ADJUSTED TO GRADE AS DETERMINED BY THE ENGINEER.
WHEN ADJUSTING MANHOLES EXTREME CARE SHALL BE TAKEN WHEN REMOVING CONCRETE, SO AS NOT TO DAMAGE MANHOLE COVERS AND FRAMES. MANHOLES SHALL BE ADJUSTED USING CONCRETE SHOWN IN DRAWING BP-3.1, 7-28-00. WHEN ADJUSTING INLETS, MANHOLES, CATCH BASINS AND VALVE BOXES ALL MATERIALS, LABOR, EQUIPMENT, TOOLS AND ANY OTHER INCIDENTALS AND REMOVAL OF THE EXISTING CONCRETE SHALL BE PAID FOR UNDER EACH ITEM AS SHOWN ON THE GENERAL SUMMARY.

LOCATION 1 - S.R. 188 (CITY OF LANCASTER)

ITEM 604 INLET ADJUSTED TO GRADE 9 EACH
ITEM 604 MANHOLE ADJUSTED TO GRADE 11 EACH
ITEM 604 CATCH BASIN ADJUSTED TO GRADE 2 EACH
ITEM 638 VALVE BOX ADJUSTED TO GRADE 23 EACH

LOCATION 2 - S.R. 188 (VILLAGE OF PLEASANTVILLE)

ITEM 604 INLET ADJUSTED TO GRADE 1 EACH
ITEM 604 MANHOLE ADJUSTED TO GRADE 12 EACH
ITEM 604 CATCH BASIN ADJUSTED TO GRADE 5 EACH
ITEM 638 VALVE BOX ADJUSTED TO GRADE 5 EACH

LOCATION 3 - S.R. 188 (VILLAGE OF THORNVILLE)

ITEM 604 INLET ADJUSTED TO GRADE 4 EACH
ITEM 604 MANHOLE ADJUSTED TO GRADE 2 EACH
ITEM 604 CATCH BASIN ADJUSTED TO GRADE 5 EACH
ITEM 638 VALVE BOX ADJUSTED TO GRADE 3 EACH

ITEM 604 INLET ADJUSTED TO GRADE, AS PER PLAN

IN THE CITY OF LANCASTER THE EXISTING CURB INLETS SHALL BE ADJUSTED BY SAWING THE EXISTING ASPHALT AREA AT THE INLET. REMOVE THE EXISTING ASPHALT 2' IN FRONT OF THE INLET AND 1' BEFORE AND AFTER THE INLET, AS DIRECTED BY THE PROJECT ENGINEER.
THE AREA THAT HAS BEEN REMOVED SHALL BE REPLACED WITH 9" OF CONCRETE, CLASS FS.
THE SAWING OF THE EXISTING ASPHALT AND THE REMOVAL SHALL BE COMPLETED AFTER THE PAVEMENT PLANING OPERATION. THE PLACEMENT OF THE 9" OF CONCRETE, CLASS FS SHALL BE PERFORMED PRIOR TO THE PAVING OPERATIONS.
PAYMENT OF INLET ADJUSTED TO GRADE, AS PER PLAN SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT AND ANY OTHER INCIDENTALS NECESSARY TO RECONSTRUCT THE INLET AS DESCRIBED ABOVE.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY TO PERFORM THE WORK AS DESCRIBED ABOVE.

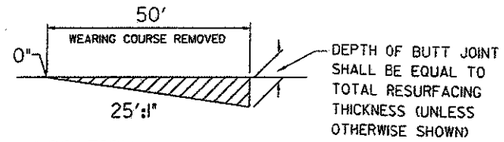
LOCATION 1 - S.R. 188 (CITY OF LANCASTER)

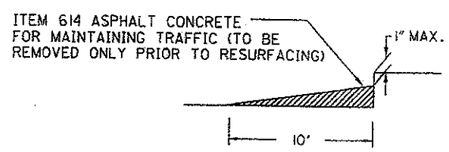
ITEM 604 INLET ADJUSTED TO GRADE, AS PER PLAN 2 EACH

F1B3001.MCH 2/6/03

BUTT JOINT

A BUTT JOINT MAY BE REQUIRED AS DIRECTED BY THE PROJECT ENGINEER. AFTER THE JOINT IS CONSTRUCTED, THE DROP OFF CREATED SHALL BE MINIMIZED BY TEMPORARILY FILLING THE VOID TO WITHIN AT LEAST 1" OF THE EXISTING ROADWAY SURFACE (SEE DETAIL BELOW).
PLACEMENT AND REMOVAL OF TEMPORARY WEDGE SHALL BE INCLUDED FOR PAYMENT IN THE UNIT BID PRICE FOR THE APPROPRIATE ASPHALT REMOVAL ITEM (PAVEMENT PLANING OR WEARING REMOVED).





LOCATION 1

ITEM 407 TACK COAT 10 GAL
ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC 10 CU.YD.

LOCATION 2

ITEM 407 TACK COAT 20 GAL
ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC 20 CU.YD.
ITEM 202 WEARING COURSE REMOVED (BEGIN PROJ., BRIDGE & END) 500 SQ.YD.

LOCATION 3

ITEM 407 TACK COAT 15 GAL
ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC 15 CU.YD.
ITEM 202 WEARING COURSE REMOVED (BEGIN PROJ., BRIDGE & S.L.M. 4.27) 450 SQ.YD.

MAIL BOX TURN OUTS

A QUANTITY OF ASPHALT CONCRETE HAS BEEN PROVIDED IN THE PLAN TO COVER MAIL BOX TURN OUTS. TURN OUTS SHALL BE PAVED AS SHOWN IN THE DETAIL IN DRAWING BP-4.1, 7-28-00.
ANY EXTRA GRADING OF THE SHOULDERS, PRIME OR TACK COAT, MATERIALS, LABOR, EQUIPMENT TOOLS AND INCIDENTALS NECESSARY TO COMPLETE MAIL BOX TURN OUTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I, PG 64-22 AND ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE I, PG 64-22. THE FOLLOWING QUANTITIES ARE CARRIED TO THE GENERAL SUMMARY:

LOCATION 1

ITEM 448 1" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I, PG 64-22 25 CU.YD.
ITEM 448 1" ASPHALT CONCRETE SURFACE COURSE, TYPE I, PG 64-22 25 CU.YD.

LOCATION 2

ITEM 448 1" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I, PG 64-22 50 CU.YD.
ITEM 448 1" ASPHALT CONCRETE SURFACE COURSE, TYPE I, PG 64-22 50 CU.YD.

LOCATION 3

ITEM 448 1" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I, PG 64-22 40 CU.YD.
ITEM 448 1" ASPHALT CONCRETE SURFACE COURSE, TYPE I, PG 64-22 40 CU.YD.

CALCULATED
CHECKED

GENERAL NOTES

FAI-188-14.48
FAI-188-16.02
PER-188-0.00

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR

IN ADDITION TO THE REQUIREMENTS OF 614 AND THE LATEST EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), A UNIFORMED LAW ENFORCEMENT OFFICER AND OFFICIAL PATROL CAR WITH WORKING TOP MOUNTED EMERGENCY FLASHING LIGHTS SHALL BE PROVIDED FOR CONTROLLING TRAFFIC FOR THE FOLLOWING TASKS:

FOR LANE CLOSURES: DURING INITIAL SETUP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED.

LAW ENFORCEMENT OFFICERS (L.E.O.'S) SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED. THE LEO'S ARE CONSIDERED TO BE EMPLOYED BY THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR ACTIONS. ALTHOUGH THEY ARE EMPLOYED BY THE CONTRACTOR, THE PROJECT ENGINEER SHALL HAVE CONTROL OVER THEIR PLACEMENT. THE OFFICIAL PATROL CAR SHALL BE A PUBLIC SAFETY VEHICLE AS REQUIRED BY THE OHIO REVISED CODE.

THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THESE SERVICES WITH:
THE OHIO HIGHWAY PATROL
660 EAST MAIN STREET
COLUMBUS, OHIO
TELEPHONE: (614) 466-2660

LAW ENFORCEMENT OFFICERS WITH PATROL CAR REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614-LAW ENFORCEMENT OFFICER WITH PATROL CAR. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

LAW ENFORCEMENT OFFICER WITH PATROL CAR. LOCATIONS 1-3 - 50 HOURS

THE HOURS PAID SHALL INCLUDE MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

IF THE CONTRACTOR WISHES TO UTILIPE LEO'S FOR FLAGGING AND TRAFFIC CONTROL OTHER THAN FOR THAT REQUIRED IN THESE PLANS, HE MAY DO SO AT HIS OWN EXPENSE. PAYMENT FOR THE EXCESS ABOVE THE CONTRACT REQUIREMENTS WILL BE INCLUDED UNDER ITEM 614 MAINTAINING TRAFFIC.

ITEM 407, TACK COAT, MISC.: FOR LONGITUDINAL JOINT

IN ORDER TO ASSURE A GOOD BOND AT THE LONGITUDINAL JOINT, A RUBBERIZED ASPHALT EMULSION (ITEM 407 TACK COAT AS PER 702.13) SHALL BE APPLIED TO THE FACE OF THE SURFACE COURSE OF ASPHALT PAVEMENT IMMEDIATELY BEFORE PLACING THE ADJACENT PAVEMENT. RUBBERIZED TACK SHALL HAVE 100% COVERAGE ON THE FACE OF THE TOP COURSE AND BE APPLIED AT THE RATE OF 0.25 GALLONS PER SQUARE YARD, AS DIRECTED BY THE ENGINEER. CARE SHALL BE TAKEN (AS PER SECTION 407.07) IN THE APPLICATION OF THE TACK SO AS TO AVOID PLACING EMULSION ON THE TOP SURFACE OF THE PAVEMENT. THE FOLLOWING QUANTITY OF ITEM 407 TACK COAT, MISC.: FOR LONGITUDINAL JOINT SHALL INCLUDE ALL LABOR, EQUIPMENT AND MATERIAL TO PERFORM THE ABOVE WORK.

LOCATION 1
ITEM 407 TACK COAT, MISC.: FOR LONGITUDINAL JOINT 9,241 FT.

LOCATION 2
ITEM 407 TACK COAT, MISC.: FOR LONGITUDINAL JOINT 54,390 FT.

LOCATION 3
ITEM 407 TACK COAT, MISC.: FOR LONGITUDINAL JOINT 23,658 FT.

ITEM 617, COMPACTED AGGREGATE, TYPE A, AS PER PLAN

ALL AGGREGATE SHALL BE 100% CRUSHED LIMESTONE. ALL QUALITY REQUIREMENTS EXCEPT SHALE BE WAIVED. OTHER GRADATION REQUIREMENTS SHALL BE AS SPECIFIED EXCEPT THE PLASTICITY INDEX SHALL BE WAIVED. IF SO DIRECTED, THE CONTRACTOR MAY USE RECYCLED ASPHALT CONCRETE PAVEMENT (RACP MEETING REQUIREMENTS OF 617.02) IN LIEU OF CRUSHED LIMESTONE.

UTILITIES

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

AMERITECT OF OHIO
3935 NORTH POINT RD.
ZANESVILLE, OHIO 43701
ATTN: SANDY RANDOPLH
740-454-3455

AMERICAN ELECTRIC POWER
9135 STATE ROUTE 682
ATHENS, OHIO 45701-9102
ATTN:JEFF WICKER
740-594-1946

AMERICAN ELECTRIC POWER TRANSMISSION
825 TECH CENTER DRIVE
GAHANNA, OHIO 43230-6605
ATTN: TOOD WICK
614-552-1899

BELDEN AND BLACK
4362 GLEN HIGHWAY
CAMBRIDGE, OHIO 43725
ATTN: GIB WETZLER
740-872-3380

CITY OF LANCASTER
DIVISION OF WATER
225 NORTH MEMORIAL DR.
LANCASTER, OHIO 43130
ATTN: DAVID BORNINO
740-687-6631

COLUMBIA GAS OF OHIO
216 HIGHLAND AVENUE
P.O. BOX 250
CAMBRIDGE, OHIO 43725
ATTN: JIM DIETRIDT
740-432-8226

COLUMBIA GAS TRANSMISSION
301 MAPLE STREET
P.O. BOX 330
SUGAR GROVE, OHIO 43155
ATTN: JOHN RADER
740-764-2279

LANCASTER MUNICIPAL GAS COMPANY
1424 CAMP GROUND RD.
LANCASTER, OHIO 43130
ATTN: MARK MORGAN
740-687-6670

SOUTH CENTRAL POWER COMPANY
P.O. BOX 250
LANCASTER, OHIO 43130-0252
ATTN: BOB KOLLING
740-653-4422

TIME WARNER CABLE TV
1315 GRANVILLE PIKE
LANCASTER, OHIO 43130
ATTN: JIM DEEDS
740-653-6899

F188MOT.MCN 2/6/03

VERTICAL ALIGNMENT IMPROVEMENT
(ON S.R. 204 AT AULT ROAD AND BASIL ROAD)

THE OHIO DEPARTMENT OF TRANSPORTATION DIST. 5 SPECIAL PROJECTS IS TO IMPROVE THE VERTICAL ALIGNMENT ON S.R. 204 AT TWO SEPARATE LOCATIONS (WEST OF AULT ROAD AND BASIL ROAD IN FAIRFIELD COUNTY).
STATE FORCES WILL EXCAVATE THESE AREAS ON S.R. 204 AND WILL BE RESPONSIBLE FOR THE SUBGRADE COMPACTION AND THE PLACEMENT OF ITEM 304 AGGREGATE BASE.
STATE FORCES SHALL HAVE THEIR WORK DONE IN THIS AREA BY 7/22/03 AT AULT RD. AND BY 8/12/03 AT BASIL RD. SO THAT THE CONTRACTOR MAY START WORK AT THESE LOCATIONS.
THE CONTRACTOR SHALL PLACE 6" OF ITEM 301 ASPHALT AGGREGATE BASE, 1" OF ITEM 448 INTERMEDIATE COURSE, TYPE 1, PG 64-22 AND 1" OF ITEM 448 SURFACE COURSE, TYPE 1, PG 64-22 AT BOTH LOCATIONS ON S.R. 204.

THE WORK AT EACH OF THESE LOCATIONS SHALL BE COMPLETED WITHIN FIVE DAYS OF NOTIFICATION BY THE PROJECT ENGINEER THAT THE LOCATION IS READY TO BE PAVED.
THE END OF THE FIVE DAY PERIOD SHALL CONSTITUTE AN INTERIM COMPLETION DATE AS PER SECTION 108.07 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS WITH THE EXCEPTION THAT THE LIQUIDATED DAMAGES IN THE AMOUNT OF $1,500.00 PER DAY SHALL BE ACCESSED.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY: FOR THE ABOVE WORK.

S.R. 204 @ AULT RD.

20' PAVEMENT WITH 2' SHOULDERS
650' x 24' = 15,600 SQ.FT. = 1,734 SQ.YD.

ITEM 301 ASPHALT CONCRETE BASE (6")
1,734 x 6 ÷ 36 = 289 CU. YD.

ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG 64-22
1,734 x 1÷ 36 = 49 CU.YD.

ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22
1,734 x 1÷ 36 = 49 CU.YD.

ITEM 407 TACK COAT FOR INTERMEDIATE COURSE
1,734 x .05 = 87 GALLON

ITEM 617 COMPACTED AGGREGATE, TYPE A, AS PER PLAN (4")
650' x 2' x 0.333' ÷ 27 = 16 CU.YD. x 2 = 32 CU.YD.

S.R. 204 @ BASIL ROAD

20' OF PAVEMENT WITH 2' SHOULDERS
500' x 24' = 12,000 SQ. FT. = 1,334 SQ.YD.

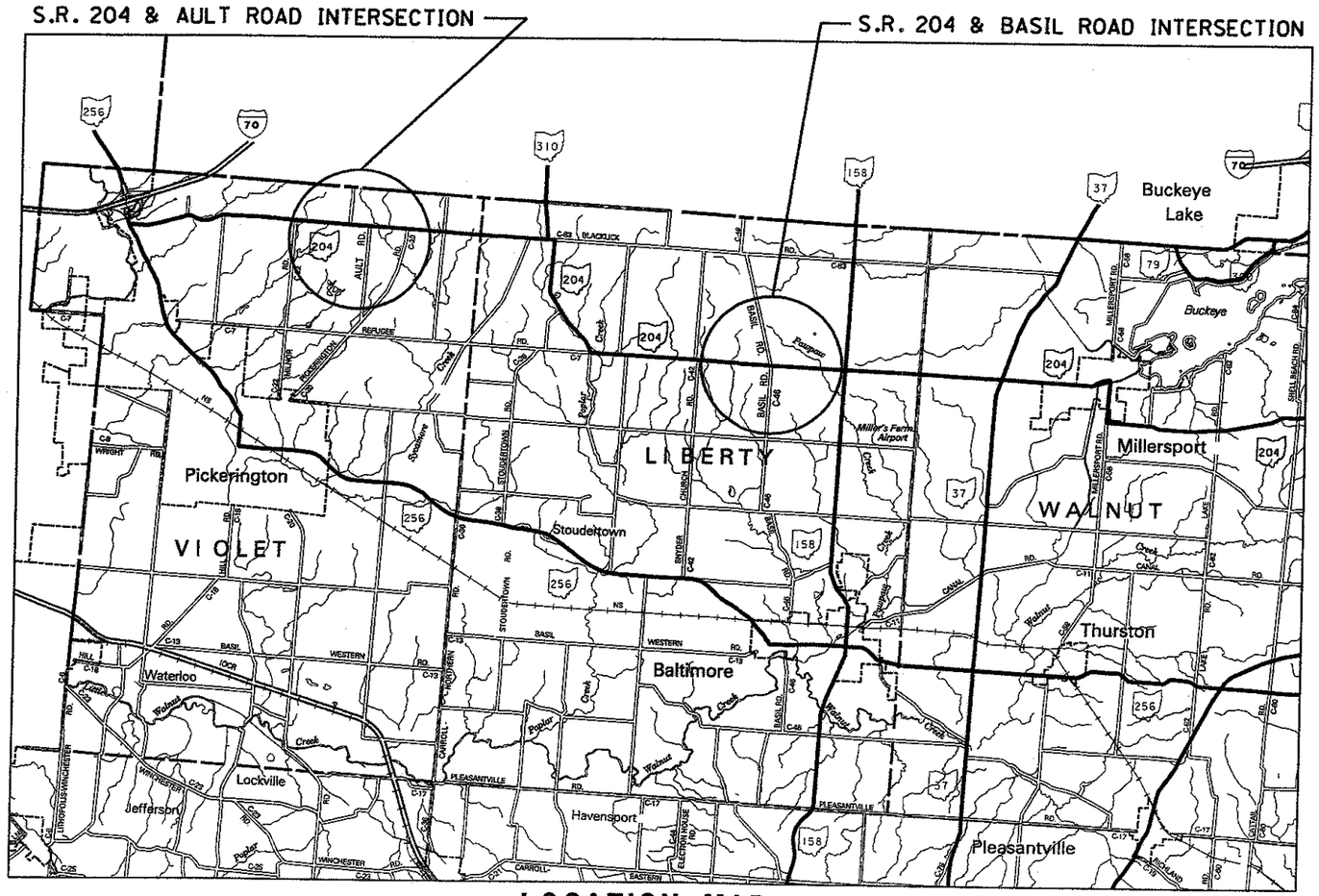
ITEM 301 ASPHALT CONCRETE BASE (6")
1,334 x 6 ÷ 36 = 223 CU.YD.

ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG 64-22
1,334 x 1÷ 36 = 37 CU.YD.

ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22
1,334 x 1÷ 36 = 37 CU.YD.

ITEM 407 TACK COAT FOR INTERMEDIATE COURSE
1,334 x .05 = 67 GALLON

ITEM 617 COMPACTED AGGREGATE, TYPE A, AS PER PLAN (4")
500' x 2' x 0.333' ÷ 27 = 13 CU.YD. x 2 = 26 CU.YD.



LOCATION MAP
(S.R. 204 & BASIL ROAD INTERSECTION & S.R. 204 & AULT ROAD INTERSECTION)

CALCULATED | CHECKED

S.R. 204 & BASIL ROAD INTERSECTION &
S.R. 204 & AULT ROAD INTESECTION

FAI-188-14.48
FAI-188-16.02
PER-188-0.00

FIRROOG.MGN 3/14/03

ITEM 608 CURB RAMP

PROPOSED CURB RAMPS, CONSTRUCTED AS PER STANDARD CONSTRUCTION DRAWING BP-7.1 SHALL BE INSTALLED AT THE LOCATIONS AS SHOWN ON SHEET 8 AND 9 TO ALLOW WHEELCHAIR ACCESS TO EXISTING SIDEWALKS. PAYMENT FOR ITEM 608 CURB RAMP SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT AND ANY OTHER INCIDENTALS NECESSARY TO CONSTRUCT THE PROPOSED CURB RAMP.

ITEM 608 5" CONCRETE WALK

PROPOSED ITEM 608 5" CONCRETE WALK SHALL BE INSTALLED AT LOCATIONS AS DIRECTED BY THE PROJECT ENGINEER TO ALLOW WHEELCHAIR ACCESS TO EXISTING SIDEWALKS AND CURB RAMPS. PAYMENT FOR ITEM 608 5" CONCRETE WALK SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT AND ANY OTHER INCIDENTALS NECESSARY TO CONSTRUCT THE PROPOSED ITEM 608 5" CONCRETE WALK.

ITEM 608 WALKWAY, MISC.: TRUNCATED DOMES

EXISTING CURB RAMPS SHALL BE RETROFITTED WITH ADA COMPLIANT DETECTABLE WARNING SYSTEMS. THE SYSTEM SHALL USE THE "IN-LINE TRUNCATED DOME PATTERN", BE SURFACE APPLIED AND SAFETY YELLOW IN COLOR. INSTALL TRUNCATED DOMES FOR A DISTANCE OF 24" FROM THE BACK OF THE CURB FOR THE ENTIRE WIDTH OF THE RAMP OPENING. THE SYSTEM USED SHALL BE MANUFACTURED BY ONE OF THE FOLLOWING COMPANIES:

COTE-L INDUSTRIES INC.
1542 JEFFERSON ST., TEANECK, NJ 07666
PHONE: (201) 836-0733
WEB: WWW.COTELIND.COM
PRODUCT: SAFTI-TRAX DETECTABLE WARNING SYSTEMS (OR SAFTI-TRAX MATS)
(APPLIED RUBBER DOMES & DURABACK POLYURETHANE COATING)

DETECTABLE WARNING SYSTEMS, INC.
6435 JOSHUA TREE AVENUE
ORANGE, CA 92867
PHONE: (866) 999-7452 OR (714) 974-3566
WEB: WWW.DETECTABLE-WARNING.COM
PRODUCT: DETECTABLE WARNING MAT, IN-LINE (SQUARE) PATTERN
(POLYURETHANE MAT WITH TRUNCATED DOMES, TWO-PART

STRONGWALL INDUSTRIES, INC.
107 CHESTNUT STREET
RIDGEWOOD, NJ 07450
PHONE: (201) 445-4633
WEB: WWW.STRONGWALL.COM
PRODUCT: SWADA-2000 WHEELCHAIR ACCESS
(APPLIED LATEX-MODIFIED MORTAR DOMES AND TRAFFIC DECK MEMBRANE SYSTEM)

ALL PRODUCTS ARE TO BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS, INCLUDING SURFACE PREPARATION, ADHESIVE (CHEMICAL AND/OR MECHANICAL) AND PRODUCT APPLICATION AND CURING.

PAYMENT FOR ITEM 608 WALKWAY, MISC.: TRUNCATED DOMES WILL BE MADE AT THE CONTRACT UNIT PRICE BID FOR EACH CURB RAMP COMPLETELY INSTALLED AND ACCEPTED.

(SEE SHEET 8 AND 9 FOR LOCATIONS).

ITEM 608 WALKWAY, MISC.: TRUNCATED DOMES ON CURB RAMPS

INSTALL DETECTABLE WARNINGS (TRUNCATED DOMES) FOR A DISTANCE OF 24" FROM THE BACK OF THE CURB FOR THE ENTIRE WIDTH OF THE RAMP OPENING WHERE IT IS FLUSH WITH THE PAVEMENT. SQUARE FOOTAGE OF THE PAVERS FOR EACH TYPE OF RAMP ARE AS FOLLOWS (SEE STANDARD CONSTRUCTION DRAWING BP-7.1 FOR DIFFERENT STYLES OF CURB RAMPS):

RAMP DESIGN	RAMP TYPE	DIMENSIONS (SEE PLAN)	AREA
PERPENDICULAR	TYPES A, E & G	24" x 4'-0" (MIN. WIDTH)	8 S.F. (MIN.)
PARALLEL	TYPES B AND F	24" x 5'-0" (MIN. WIDTH)	10 S.F. (MIN.)
COMBINED	TYPE C	24" x 5'-0" (6'-0" PREFERRED)	10 S.F. (MIN. 12 S.F. PREFERED)
DIAGONAL	SPECIAL INSTALLATION	24" x 4'-0" (MIN. WIDTH)	8 S.F. (MIN.)

PAVERS WILL MEET AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS FOR DETECTABLE WARNINGS (TRUNCATED DOMES) AND EITHER ASTM C 902 PEDESTRIAN AND JIGHT TRAFFIC PAVING BLOCKS, CLASS SX, TYPE I; OR ASTM C 936 SOLID CONCRETE INTERLOCKING PAVING UNITS; OR ASTM C 1272 HEAVY VEHICULAR PAVING BRICK, TYPE R.
ACCEPTABLE MANUFACTURES AND PRODUCTS ARE:

MANUFACTURERS	PRODUCTS
WHITACRE-GREER FIREPROOFING COMPANY, 1400 S. MAHONONG AVE., ALLIANCE, OHIO 44601	ADA PAVER, 4" x 8" x 2¼" CLEAR RED (RUSTIC) #30.
HANOVER ARCHITECTURAL PRODUCTS 240 BENDER RD., HANOVER, PA., 17331	DETECTABLE WARNING PAVER, 11¾" x 11¾" x 2" RED OR QUARRY RED
ENDICOTT CLAY PRODUCTS, P.O. BOX 17, FAIRBURY, NE., 68352	HANDICAP DETECTABLE WARNING PAVER, NOMINAL 4" x 8" x 2¼" RED BLEND

PAVERS WILL BE LAID ON TOP OF A 4" UNREINFORCED CONCRETE BASE. SETTING BED AND JOINTS TO BE MORTARED IN ACCORDANCE WITH MANUFACTURES INSTRUCTIONS OR WITH A MAXIMUM ½" THICK SETTING BED OF LATEX MODIFIED CEMENT MORTAR. MORTAR JOINTS TO A WIDTH NOT GREATER THAN 5/32" AND NOT LESS THAN 1/16". PAVERS SHALL NOT BE DIRECTLY TOUCHING EACH OTHER UNLESS THEY HAVE SPACING BARS. PORTION OF CONCRETE RAMP THAT IS THICKENED TO 6" SHALL BE EXTENDED SUCH THAT A MINIMUM 4" OF CONCRETE SHALL BE BENEATH THE BRICK PAVERS.

JOINTS ARE TO BE FLUSH WITH TOP SURFACE AND STRUCK SO AS TO GIVE A SMOOTH SURFACE. PAVERS SHALL BE LAID SUCH THAT JOINTS ARE LEVEL WITH ADJOINING JOINTS SO AS TO PROVIDE A SMOOTH TRANSITION FROM BRICK TO BRICK AND BRICK TO CONCRETE SURFACE. THE TOP SURFACE OF ANY TWO ADJACENT UNITS SHOULD NOT DIFFER BY MORE THAN 1/8" IN HEIGHT FOR MORTARED BRICK PAVING. BRICKS SHALL BE PLACED IN A RUNNING BOND PATTERN. PAVERS THAT DO NOT CONFORM TO THE SMOOTHNESS REQUIREMENT SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE CONTRACTOR AS DETERMINED BY THE ENGINEER. THE FACE OF ALL BRICK SHALL BE CLEAN OF CEMENT AND PROTECTED SO AS TO AVOID CHIPPING DURING CONSTRUCTION.

ALL MATERIALS, LABOR AND EQUIPMENT REQUIRED TO PERFORM THE ABOVE WORK SHALL BE PAID FOR UNDER ITEM 608 WALKWAY, MISC.: TRUNCATED DOMES ON CURB RAMPS.

(SEE SHEET 8 AND 9 FOR LOCATIONS AND QUANTITY)

CALCULATED | CHECKED

GENERAL NOTES

FAI-188-14.48
FAI-188-16.02
PER-188-0.00

F188GNOS.MGN 3/11/03

PART	ROUTE	SIDE	ITEM 202 WALK REMOVED	ITEM 202 CURB REMOVED	ITEM 608 5" CONCRETE WALK	ITEM 608 CURB RAMP (*) - FOR INFORMATION ONLY TYPE A(*)	ITEM 608 CURB RAMP TYPE G(*)	ITEM 608 WALKWAY MISC. TRUNCATED DOMES ON CURB RAMPS	ITEM 608 WALKWAY MISC. TRUNCATED DOMES	ITEM 609 CURB, TYPE 6	REMARKS
			SQ. FT.	FOOT	SQ. FT.	SQ. FT.	SQ. FT.	SQ. FT.	EACH	FOOT	
FAI.	S.R. 188 (URBAN)										
	IN LANCASTER										
1	CHERRY ST. (S.R. 188) @ MAIN ST. (U.S. 22)								4		
1	ANGLE ST. (SOUTHEAST CORNER)	RT.	60	21	20		60	10		10	
1	ANGLE ST. (NORTHEAST CORNER)	RT.							1		
1	WHEELING ST. (SOUTHWEST CORNER)	LT.	72	15	20		60	10		10	
1	WHEELING ST. (NORTHWEST CORNER)	LT.	135	25	25	110		12		15	
1	@ "BIB'S RESTAURANT"	RT.							1		
1	ALLEY (SOUTHWEST CORNER)	LT.	90	13	30		60	10		10	
1	ALLEY (NORTHWEST CORNER)	LT.	105	12	45		60	10		10	
1	MULBERRY ST. (SOUTHWEST CORNER)	LT.	180	12	120		60	10		10	
1	MULBERRY ST. (NORTHWEST CORNER)	LT.	82	10	22		60	10		10	
1	ALLEY (SOUTHEAST CORNER)	RT.	250	16	190		60	10		10	
1	ALLEY (NORTHEAST CORNER)	RT.	80	16	20		60	10		10	
1	ALLEY (SOUTHWEST CORNER)	LT.	80	20	20		60	10		10	
1	ALLEY (NORTHWEST CORNER)	LT.	90	22	30		60	10		12	
1	ALLEY (SOUTHEAST CORNER)	RT.	80	20	20		60	10		10	
1	KING ST. (SOUTHWEST CORNER)	LT.							1		
1	KING ST. (NORTHWEST CORNER)	LT.	200	35	40		60	10		25	(1) - SEE BELOW FOR INFORMATION
1	FIFTH AVE. (SOUTHWEST CORNER)	LT.	110	30	50		60	10		20	(2) - SEE BELOW FOR INFORMATION
1	FIFTH AVE. (NORTHWEST CORNER)	LT.	300	35	240		60	10		25	
1	FIFTH AVE. (NORTHWEST CORNER) TO BR. NO. FAI-188-1483	LT.	535	107	535					107	(3) - SEE BELOW FOR INFORMATION
1	CHERRY ST. (S.R. 188) @ SIXTH AVE. (WEST CORNER)	LT.							1		
1	CHERRY ST. (S.R. 188) @ SIXTH AVE. (EAST CORNER)	RT.	130	26	20	110		12			
1	PLEASANTVILLE RD. (S.R. 188) @ SHERIDAN DR. (NORTH CORNER)	LT.							1		
1	GOSLIN DR. (WEST CORNER)	RT.							1		
1	GOSLIN DR. (EAST CORNER)	RT.							1		
1	HOSPITAL PARKING LOT (WEST CORNER)	RT.							1		
1	HOSPITAL PARKING LOT (EAST CORNER)	RT.							1		
	SUB-TOTALS					220	840				
TOTALS (LOCATION 1)(CARRIED TO GENERAL SUMMARY)			2,579	435	1,447	1,060		164	13	304	

REMARKS (FROM TABLE ABOVE)

(1) - 100 SQ. FT. OF ITEM 608 CONCRETE WALK SHALL NOT BE REPLACED FROM THE LOCATION OF THE CURB RAMP TO N. CHERRY ST. (S.R. 188)

(2) - 50 SQ. FT. OF ITEM 608 CONCRETE WALK SHALL NOT BE REPLACED FROM THE LOCATION OF THE CURB RAMP TO N. CHERRY ST. (S.R. 188)

(3) - BECAUSE OF EXISTING CONDITION, REPLACE AT EXISTING LOCATION

CALCULATED | CHECKED

CURB RAMP QUANTITIES

FAI-188-14.48
FAI-188-16.02
PER-188-0.00

F188001.DGN 3/12/03

PART	ROUTE	SIDE	ITEM 202		ITEM 608					REMARKS
			WALK REMOVED	CURB REMOVED	5" CONCRETE WALK	CURB RAMP (*) - FOR INFORMATION ONLY		WALKWAY MISC. TRUNCATED DOMES ON CURB RAMPS	WALKWAY MISC. TRUNCATED DOMES	
						TYPE A(*)	TYPE G(*)			
			SQ. FT.	FOOT	SQ. FT.	SQ. FT.	SQ. FT.	SQ. FT.	EACH	
FAI.	S.R. 188 (RURAL)									
	IN PLEASANTVILLE									
2	ACADEMY ST. (SOUTHEAST CORNER)	RT.	60		20		60	10		
2	ACADEMY ST. (NORTHEAST CORNER)	RT.	60		20		60	10		
2	WALNUT ST. (SOUTHWEST CORNER)	LT.	60		20		60	10		
2	WALNUT ST. (NORTHWEST CORNER)	LT.	110		40	110		12		
2	WALNUT ST. (SOUTHEAST CORNER)	RT.	72		20		60	10		
2	WALNUT ST. (NORTHEAST CORNER)	RT.	120		40	110		12		
2	COLUMBUS ST. (SOUTHWEST CORNER)	LT.	110	23	40	110		12		
2	COLUMBUS ST. (NORTHWEST CORNER)	LT.	140		40	110		12		
2	COLUMBUS ST. (SOUTHEAST CORNER)	RT.	144	30	40	110		12		
2	COLUMBUS ST. (NORTHEAST CORNER)	RT.	128		40	110		12		
2	HIGH ST. (SOUTHWEST CORNER)	LT.	130		70		60	10		
2	HIGH ST. (SOUTHEAST CORNER)	RT.	130		40	110		12		
2	HIGH ST. (NORTHEAST CORNER)	RT.	70		20		60	10		
SUB-TOTALS						770	360			
TOTALS (LOCATION 2)			1,334	53	450	1,130		144		
PER.	S.R. 188									
	IN THORNVILLE									
3	W. SOUTH ST. (SOUTHWEST CORNER)	LT.	60		20		60	10		
3	W. SOUTH ST. (NORTHWEST CORNER)	LT.	60		20		60	10		
3	E. SOUTH ST. (SOUTHEAST CORNER)	RT.	60		20		60	10		
3	E. SOUTH ST. (NORTHEAST CORNER)	RT.	60		20		60	10		
3	FIRST ST. (SOUTHWEST CORNER)	LT.							1	
3	FIRST ST. (NORTHWEST CORNER)	LT.							1	
3	FIRST ST. (SOUTHEAST CORNER)	RT.							1	
3	FIRST ST. (NORTHEAST CORNER)	RT.							1	
3	S.R. 188 @ S.R. 204 (WEST CORNER)	LT.	163		60	110		12		
3	S.R. 188 @ S.R. 204 (EAST CORNER)	RT.	192		90	110		12		
3	MAIN ST. @ S.R. 204 (WEST CORNER)	LT.	219		110	110		12		
3	MAIN ST. @ S.R. 204 (EAST CORNER)	RT.	200		100	110		12		
SUB-TOTALS						440	240			
TOTALS (LOCATION 3)			1,014		440	680		88	4	
TOTALS (CARRIED TO GENERAL SUMMARY)			2,348	53	890	1,810		232	4	

CALCULATED

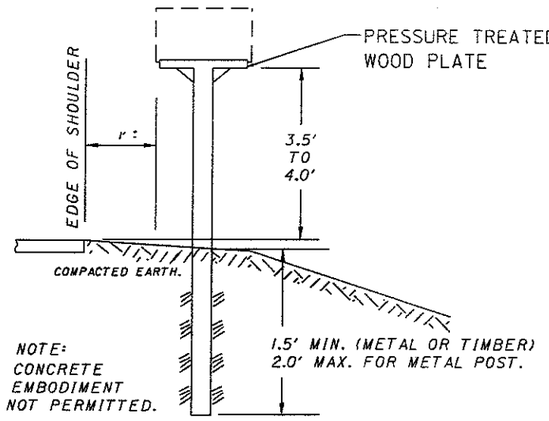
CHECKED

CURB RAMP QUANTITIES

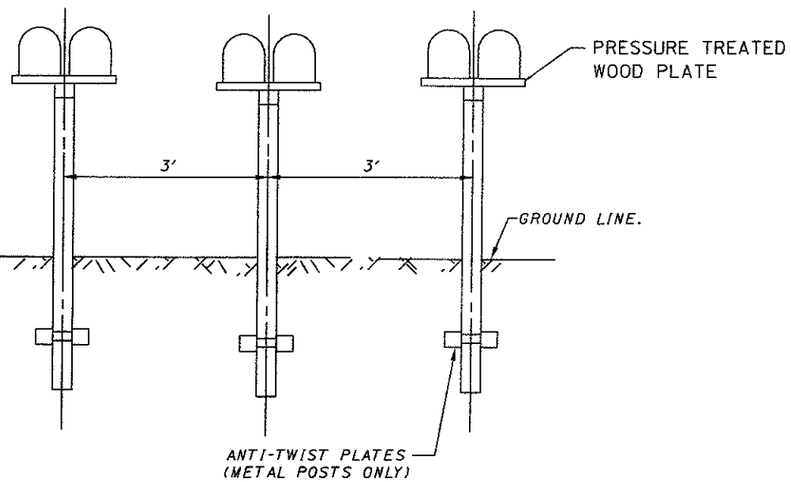
FAI-188-14.48
FAI-188-16.02
PER-188-0.00

F18801.DGN 3/12/03

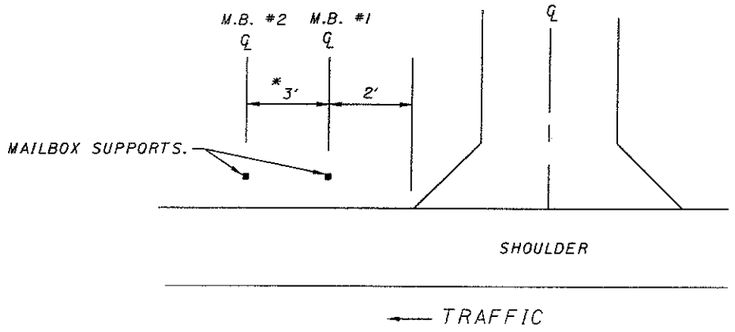
MAILBOX DETAILS



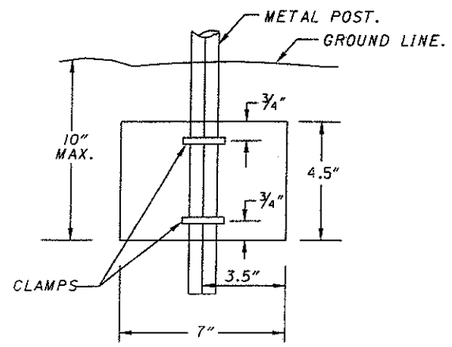
TYPICAL MAILBOX LOCATION AND MOUNTING HEIGHT



GROUP MAILBOX INSTALLATION



* ADD 3' FOR EACH ADDITIONAL MAILBOX.



ANTI-TWIST PLATE

ITEM SPECIAL - MAILBOX SUPPORT

DESCRIPTION

THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AND ATTACHING AN OWNER-SUPPLIED MAILBOX AT LOCATION SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISHED BY THE ENGINEER.

THIS ITEM SHALL INCLUDE THE REMOVAL OF THE EXISTING POSTS AND OTHER MATERIAL NOT CONSIDERED SALVAGEABLE AND DISPOSED OF IN ACCORDANCE WITH 202.02.

MATERIALS

WOOD POSTS SHALL BE NOMINAL 4" x 4" SQUARE OR 4" DIAMETER ROUND. ALL WOOD INCLUDING POST AND PLATES SHALL CONFORM TO 710.14.

STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2" I.D., AND CONFORM TO AASHTO M 181.

HARDWARE (PLATES, SCREWS, BOLTS, ETC.) SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL.

SETTING POSTS

POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF 606.03 AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

MOUNTING BOXES

SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST.

THE MAILBOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS, AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION.

IN THE ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

BASIS OF PAYMENT

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS. TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.12. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

MAILBOX SUPPORTS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR THE TYPE SPECIFIED, COMPLETE IN PLACE.

PAYMENT WILL BE MADE UNDER:

ITEM	UNIT	DESCRIPTION
SPECIAL	EACH	MAILBOX SUPPORT SYSTEM SINGLE
SPECIAL	EACH	MAILBOX SUPPORT SYSTEM DOUBLE

QUANTITIES

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR THE ABOVE PURPOSE:

ITEM SPECIAL MAILBOX SUPPORT SYSTEM, SINGLE 5 EACH

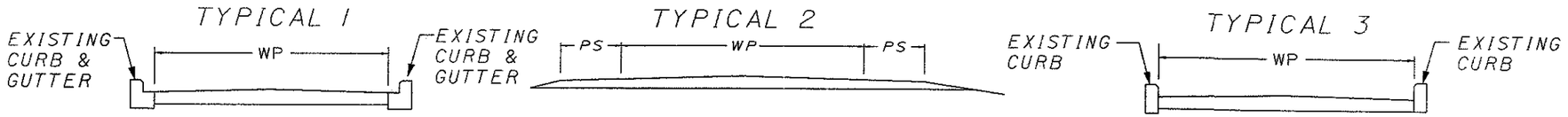
CALCULATED | CHECKED

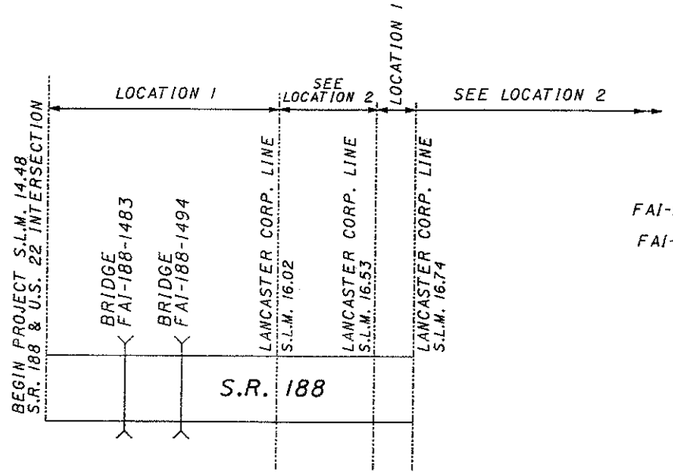
MAILBOX DETAILS AND QUANTITIES

FAI-188-14.48
FAI-188-16.02
PER-188-0.00

F188005.MCN 2/6/03

ASPHALT CONCRETE





BRIDGES
FAI-188-1483 - 99' x 36' - (CONCRETE DECK & APPROACH SLABS), MEET SLABS.
FAI-188-1494 - 92' x 32' - (CONCRETE DECK & APPROACH SLABS), MEET SLABS.

* NOTE:
PAVEMENT PLANING SHALL BE 2" IN DEPTH AT THE FACE OF THE EXISTING CURB AND GUTTER AREAS.

PAVEMENT DATA

LOCATION	ROUTE	CO.	LOG POINT TO LOG POINT	LENGTH MILES	LENGTH LIN. FT.	WP FEET	TYPICAL	EXISTING TYPE PAVEMENT	PAVEMENT AREA SQ. YD.	PROPOSED PAVEMENT 407 TACK COAT @ 0.075 GAL./S. Y. GAL.	407 TACK COAT FOR INTERMEDIATE COURSE @ 0.05 GAL./S. Y. GAL.	857 ASPHALT CONCRETE THICK INCHES	857 WITH GILSONITE INTERMEDIATE COURSE, TYPE I CU. YD.	857 THICK INCHES	857 WITH GILSONITE SURFACE COURSE, TYPE I CU. YD.	448 ASPHALT CONCRETE THICK INCHES	448 INTERMEDIATE COURSE, TYPE I, PG 64-22 CU. YD.	448 THICK INCHES	448 SURFACE COURSE, TYPE I, PG 64-22 CU. YD.	614 WORK ZONE CENTER LINE, CLASS II MILE	254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN *1.5" TO 2" SQ. YD.
1	S.R. 188	FAI	14.48 - 14.90	0.42	2,218	36	3	448	8,872	665.4	443.6	1	246.4	1	246.4					0.84	8,872
1	S.R. 188	FAI	14.90 - 16.02	1.12	5,914	32	1	448	21,028	1,577.1	1,051.4	1	584.1	1	584.1					2.24	21,028
1	S.R. 188	FAI	16.53 - 16.74	0.21	1,109	21	2	448	2,588	194.1	129.4					1	71.9	1	71.9	0.42	
			DEDUCT FOR BRIDGES							(-54)	(-36)		(-20)		(-20)						(-723)
TOTALS LOCATION 1 (CARRIED TO THE GENERAL SUMMARY)										2,382.6	1,588.4		810.5		810.5		71.9		71.9	3.50	29,177

F188001.MAC 2/11/03

CALCULATED / CHECKED

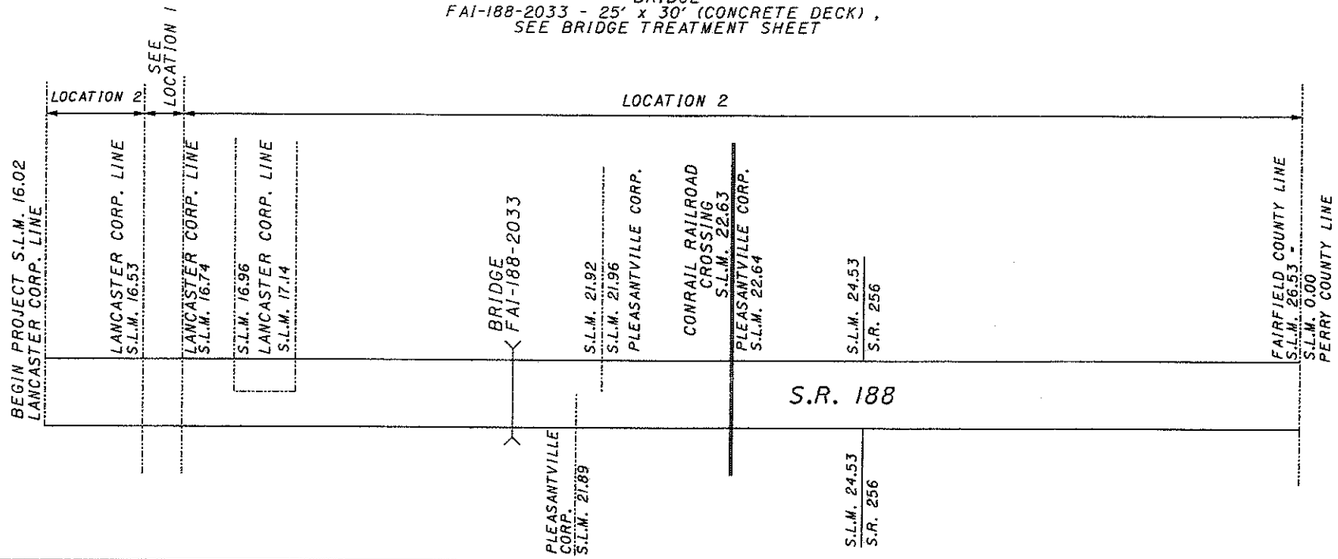
PAVEMENT CALCULATIONS

FAI-188-14.48
FAI-188-16.02
PER-188-0.00

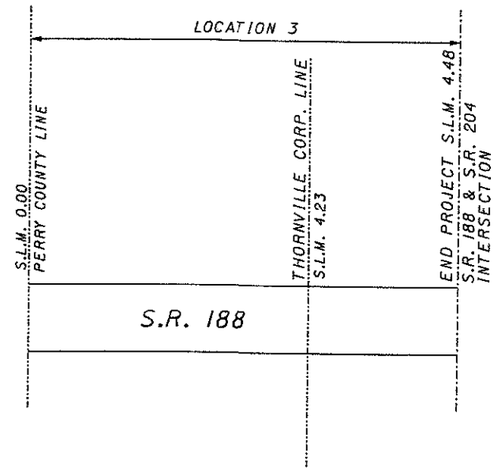
11
32

ASPHALT CONCRETE

BRIDGE
FAI-188-2033 - 25' x 30' (CONCRETE DECK),
SEE BRIDGE TREATMENT SHEET



BRIDGE
PER-188-0120 - 19' x 28' (CONCRETE DECK) MEET



PAVEMENT DATA

LOCATION	ROUTE	CO.	LOG POINT TO LOG POINT	LENGTH MILES	LENGTH LIN. FT.	WP FEET	TYPICAL	EXISTING TYPE PAVEMENT	PAVEMENT AREA SQ. YD.	PROPOSED PAVEMENT 407 TACK COAT @ 0.075 GAL./S. Y. GAL.	407 TACK COAT FOR INTERMEDIATE COURSE @ 0.05 GAL./S. Y. GAL.	448 ASPHALT CONCRETE THICK INCHES	448 INTERMEDIATE COURSE, TYPE I, PG 64-22 CU. YD.	448 THICK INCHES	448 SURFACE COURSE, TYPE I, PG 64-22 CU. YD.	857 ASPHALT CONCRETE THICK INCHES	857 WITH GILSONITE INTERMEDIATE COURSE, TYPE I CU. YD.	857 THICK INCHES	857 WITH GILSONITE SURFACE COURSE, TYPE I CU. YD.	614 WORK ZONE CENTER LINE, CLASS II MILE	254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN 2" SQ. YD.
2	S.R. 188	FAI	16.02 - 16.04	0.02	106.0	32	1	448	377	28.3	18.9					1	10.5	1	10.5	0.04	377
			16.04 - 16.07	0.03	159.0	32	2	448	566	42.5	28.3	1	15.7	1	15.7					0.06	
			16.07 - 16.53	0.46	2,429.0	21	2	448	5,668	425.1	283.4	1	157.4	1	157.4					0.92	
			16.74 - 21.89	5.15	27,192.0	21	2	448	63,448	4,758.6	3,172.4	1	1,762.4	1	1,762.4					10.30	
			21.89 - 21.92	0.03	159.0	23	2	448	407	30.5	20.4	1	11.3	1	11.3					0.06	
			21.92 - 22.04	0.12	634.0	23	2	448	1,621	121.6	81.1	1	45.0	1	45.0					0.24	1,621
			22.04 - 22.06	0.02	106.0	24	4	448	283	21.2	14.2	1	7.9	1	7.9					0.04	283
			22.06 - 22.09	0.03	159.0	24	3	448	424	31.8	21.2	1	11.8	1	11.8					0.06	424
			22.09 - 22.17	0.08	423.0	24	4	448	1,128	84.6	56.4	1	31.3	1	31.3					0.16	1,128
			22.17 - 22.24	0.07	370.0	24	2	448	987	74.0	49.4	1	27.4	1	27.4					0.14	987
			22.24 - 22.30	0.06	317.0	36	4	448	1,268	95.1	63.4	1	35.2	1	35.2					0.12	1,268
			22.30 - 22.64	0.34	1,796.0	24	2	448	4,790	359.3	239.5	1	133.1	1	133.1					0.68	4,790
			22.64 - 26.53	3.89	20,540.0	20	2	448	45,645	3,423.4	2,282.3	1	1,267.9	1	1,267.9					7.78	
			DEDUCT FOR BRIDGE							(-4.4)	(-3.0)		(-1.6)		(-1.6)						
			SUB TOTALS LOCATION 2							9,491.6	6,327.9		3,504.8		3,504.8		10.5		10.5	20.60	10,878
3	S.R. 188	PER	0.00 - 3.86	3.86	20,381	18	2	448	40,762	3,057.2	2,038.1	1	1,132.3	1	1,132.3					7.72	
			3.86 - 4.20	0.34	1,796.0	24	2	448	4,790	359.3	239.5	1	133.1	1	133.1					0.68	
			4.20 - 4.23	0.03	159.0	24	2	448	424	31.8	21.2	1	11.8	1	11.8					0.06	
			4.23 - 4.27	0.04	212.0	27	3	448	636	47.7	31.8	1	17.7	1	17.7					0.08	636
			4.27 - 4.35	0.08	423.0	24	2	448	1,128	84.6	56.4	1	31.3	1	31.3					0.16	1,128
			4.35 - 4.37	0.02	106.0	35	4	448	413	31.0	20.7	1	11.5	1	11.5					0.04	413
			4.37 - 4.38	0.01	53.0	28	2	448	165	12.4	8.3	1	4.6	1	4.6					0.02	165
			4.38 - 4.43	0.05	264.0	30	4	448	880	66.0	44.0	1	24.4	1	24.4					0.10	880
			4.43 - 4.48	0.05	264.0	36	3	448	1,056	79.2	52.8	1	29.3	1	29.3					0.10	1,056
			DEDUCT FOR BRIDGE							(-2.9)	(-1.9)		(-1.1)		(-1.1)						
			SUB TOTALS LOCATION 3							3,766.3	2,510.9		1,394.9		1,394.9					8.96	4,278
			TOTALS LOCATIONS 2 & 3 (CARRIED TO THE GENERAL SUMMARY)							13,257.9	8,838.8		4,899.7		4,899.7		10.5		10.5	29.56	15,156

F18800.MAC 2/11/03

CALCULATED

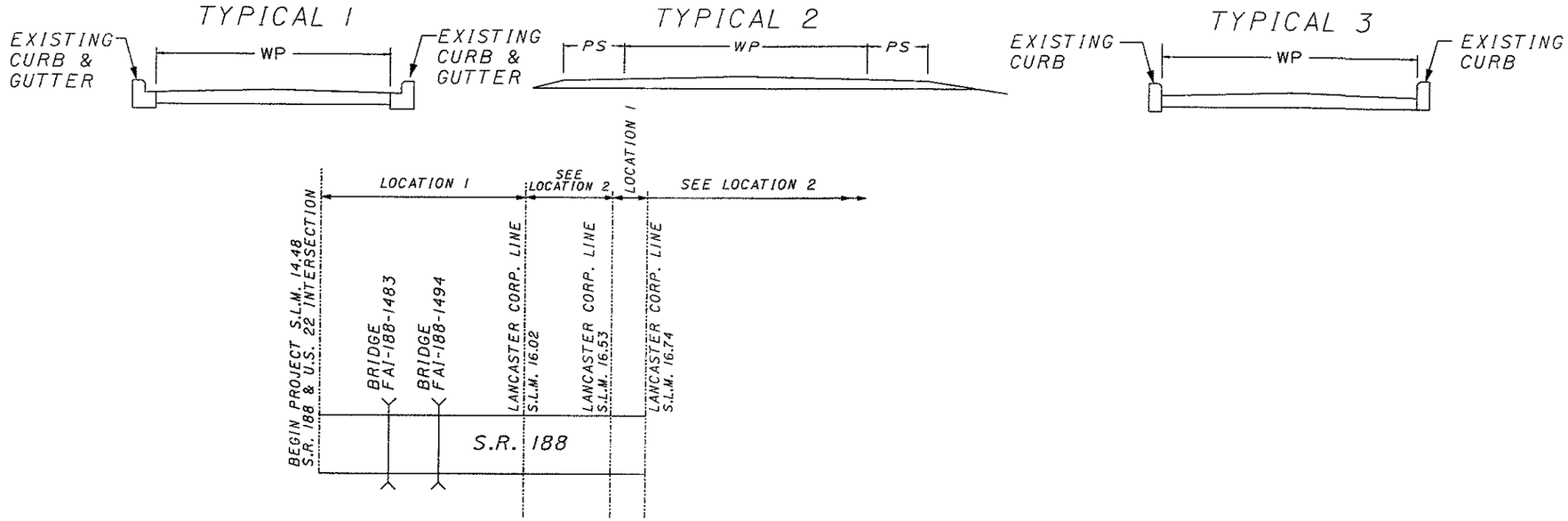
CHECKED

PAVEMENT CALCULATIONS

FAI-188-14.48
FAI-188-16.02
PER-188-0.00

12
32

SHOULDER TREATMENT



SHOULDER DATA

LOCATION	ROUTE	LOG POINT TO LOG POINT	LENGTH MILES	LENGTH LIN. FT.	TYPICAL	EXISTING TYPE - WIDTH (FT.) A TYPE	A WIDTH	B TYPE	B WIDTH	AREA SQ. YD.	PROPOSED PAVEMENT 407 TACK COAT @ 0.075 GAL./S.Y. GAL.	407 TACK COAT FOR INTERMEDIATE COURSE @ 0.05 GAL./S.Y. GAL.	448 ASPHALT CONCRETE THICK INCHES	448 INTERMEDIATE COURSE, TYPE 1, PG 64-22 CU. YD.	448 THICK INCHES	448 SURFACE COURSE, TYPE 1, PG 64-22 CU. YD.	617 COMPACTED AGGREGATE, TYPE A AS PER PLAN (3" DEPTH) (TO BACK UP PAVED SHOULDER OR PAVEMENT) CU.YD.
1	S.R. 188	16.53 - 16.74	0.21	1109	2	448	2	448	2	493	37	25	1	14	1	14	42
TOTALS LOCATION 1 (CARRIED TO THE GENERAL SUMMARY)											37	25		14		14	42

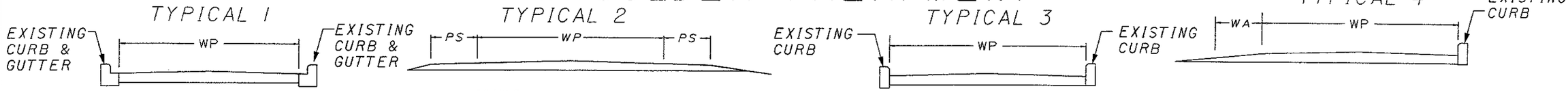
F1B80.MPS 2/6/03

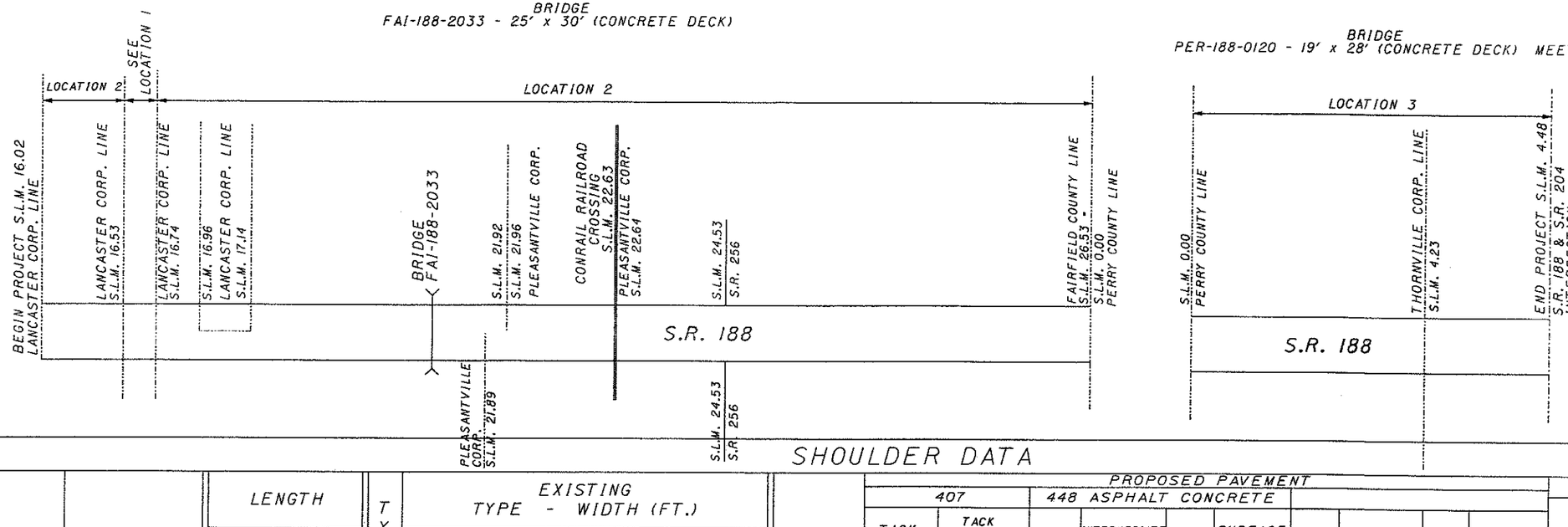
CALCULATED | CHECKED

SHOULDER CALCULATIONS

FAI-188-14.48
FAI-188-16.02
PER-188-0.00

SHOULDER TREATMENT





SHOULDER DATA

LOCATION	ROUTE	LOG POINT TO LOG POINT	LENGTH MILES	LENGTH LIN. FT.	TYPICAL	EXISTING TYPE - WIDTH (FT.) A TYPE	A WIDTH	B TYPE	B WIDTH	AREA SQ. YD.	PROPOSED PAVEMENT 407 TACK COAT @ 0.075 GAL./S.Y. GAL.	407 TACK COAT FOR INTERMEDIATE COURSE @ 0.05 GAL./S.Y. GAL.	448 ASPHALT CONCRETE THICK INCHES	448 INTERMEDIATE COURSE, TYPE I, PG 64-22 CU. YD.	448 THICK INCHES	448 SURFACE COURSE, TYPE I, PG 64-22 CU. YD.	617 COMPACTED AGGREGATE, TYPE A AS PER PLAN (3" DEPTH) (TO BACK UP PAVED SHOULDER OR PAVEMENT) CU.YD.
2	S.R. 188	16.04 - 16.53	0.49	2,588	2	448	2	448	2	1,151	87	58	1"	32	1"	32	96
2	S.R. 188	16.74 - 21.89	5.15	27,192	2	448	2	448	2	12,086	907	605	1"	336	1"	336	1,007
2	S.R. 188	21.89 - 21.92	0.03	159	2			448	2	36	3	2	1"	1	1"	1	3
2	S.R. 188	21.92 - 22.04	0.12	634	2	448	2	448	2	282	22	14	1"	8	1"	8	24
2	S.R. 188	22.04 - 22.06	0.02	106	4	448	2			24	2	1	1"	1	1"	1	2
2	S.R. 188	22.09 - 22.17	0.08	423	4	448	2			94	7	5	1"	3	1"	3	8
2	S.R. 188	22.17 - 22.24	0.07	370	2	448	2	448	2	165	13	9	1"	5	1"	5	14
2	S.R. 188	22.24 - 22.30	0.06	317	4	448	2			71	6	4	1"	2	1"	2	6
2	S.R. 188	22.30 - 26.53	4.23	22,335	2	448	2	448	2	9,927	745	497	1"	276	1"	276	828
2	S.R. 188	(DEDUCT FOR BRIDGE)									(-1.0)	(-0.6)		(-0.5)		(-0.5)	(-1.0)
2	**S.R. 188**	**SUB TOTALS (LOCATION 2)**									**1,791**	**1,194.4**		**663.5**		**663.5**	**1,987**
3	S.R. 188	0.00 - 4.23	4.23	22,335	2	448	2	448	2	9,927	745	497	1	276	1	276	828
3	S.R. 188	(DEDUCT FOR BRIDGE)									(-1.0)	(-0.6)		(-0.5)		(-0.5)	(-1.0)
3	S.R. 188	SUB TOTALS (LOCATION 3)									744	496.4		275.5		275.5	827
TOTALS LOCATIONS 2 & 3 (CARRIED TO THE GENERAL SUMMARY)											2,535	1,690.8		939		939	2,814

F1880I.MPS 2/6/03

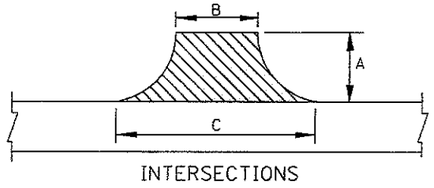
CALCULATED | CHECKED

SHOULDER CALCULATIONS

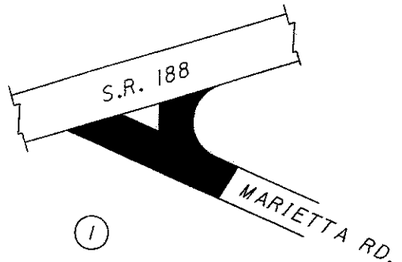
FAI-188-14.48
FAI-188-16.02
PER-188-0.00

14
32

EXTRA AREAS



INTERSECTIONS



* = AREA CALCULATED BY COMPUTER

LOCATION	COUNTY	ROUTE	SIDE	DESCRIPTION	INTERSECTIONS A IN FEET	INTERSECTIONS B IN FEET	INTERSECTIONS C IN FEET	AREA IN SQ. YD.	PROPOSED PAVEMENT 407 TACK COAT @ 0.075 GAL./S. Y. GAL.	407 TACK COAT FOR INTERMEDIATE COURSE @ 0.05 GAL./S. Y. GAL.	857 ASPHALT CONCRETE WITH GILSONITE THICK INCHES	INTERMEDIATE COURSE, TYPE I CU. YD.	THICK INCHES	SURFACE COURSE, TYPE I CU. YD.	202 WEARING COURSE REMOVED (6'x"B"÷9)= SQ. YD.	254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (2") SQ. YD.
				IN LANCASTER												
1	FAI	S.R. 188	RT.	ANGLE ST.	25	30	45	104	7.8	5.2	1	2.9	1	2.9		104
1	FAI	S.R. 188	LT.	WHEELING ST.	23	38	53	116	8.7	5.8	1	3.2	1	3.2		116
1	FAI	S.R. 188	LT.	ALLEY	11	17	26	26	2.0	1.3	1	0.7	1	0.7		26
1	FAI	S.R. 188	LT.	MULBERRY ST.	20	32	48	89	6.7	4.4	1	2.5	1	2.5		89
1	FAI	S.R. 188	RT.	ALLEY	11	10	17	17	1.3	1.0	1	0.5	1	0.5		
1	FAI	S.R. 188	LT.	ALLEY	16	20	28	43	3.2	2.2	1	1.2	1	1.2		43
1	FAI	S.R. 188	RT.	ALLEY	10	14	21	19	1.4	1.0	1	0.5	1	0.5		
1	FAI	S.R. 188	LT.	KING ST.	11	30	43	45	3.4	2.3	1	1.3	1	1.3		45
1	FAI	S.R. 188	LT.	FIFTH AVE.	12	34	45	53	4.0	2.7	1	1.5	1	1.5		53
1	FAI	S.R. 188	RT.	GOSLIN DR.	10	33	46	44	3.3	2.2	1	1.2	1	1.2		44
1	FAI	S.R. 188	RT.	EWING ST.	25	35	82	163	12.2	8.2	1	4.5	1	4.5		163
1	FAI	S.R. 188	RT.	BALDWIN DR.	13	59	90	108	8.1	5.4	1	3.0	1	3.0		108
1	FAI	S.R. 188	RT.	KEMPER AVE.	28	27	67	146	11.0	7.3	1	4.1	1	4.1		146
1	FAI	S.R. 188	RT.	KANAWHA RD.	29	37	85	197	14.8	9.9	1	5.5	1	5.5		197
1	FAI	S.R. 188	RT.	MARIETTA RD ①				700*	52.5	35.0	1	19.4	1	19.4		700
1	FAI	S.R. 188	RT.	WHEELING RD.	54	26	91	351	26.3	17.6	1	9.8	1	9.8		351
1	FAI	S.R. 188	LT.	LYNN DR.	37	30	81	228	17.1	11.4	1	6.3	1	6.3		228
TOTALS LOCATION 1 (CARRIED TO THE GENERAL SUMMARY)									183.8	122.9		68.1		68.1		2,413.0

CALCULATED

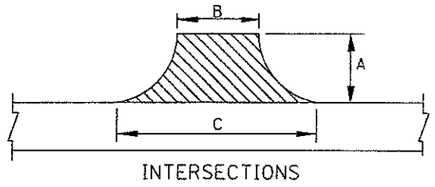
CHECKED

APPROACH ROAD AREAS

FAI-188-14.48
FAI-188-16.02
PER-188-0.00

F16600I.MEA 1/5/03

EXTRA AREAS



INTERSECTIONS

LOCATION	COUNTY	ROUTE	SIDE	DESCRIPTION	INTERSECTIONS A IN FEET	INTERSECTIONS B IN FEET	INTERSECTIONS C IN FEET	AREA IN SQ. YD.	PROPOSED PAVEMENT 407 TACK COAT @ 0.075 GAL./S. Y. GAL.	407 TACK COAT FOR INTERMEDIATE COURSE @ 0.05 GAL./S. Y. GAL.	448 ASPHALT CONCRETE THICK INCHES	448 INTERMEDIATE COURSE, TYPE I, PG 64-22 CU. YD.	448 THICK INCHES	448 SURFACE COURSE, TYPE I, PG 64-22 CU. YD.			202 WEARING COURSE REMOVED (6'x"B"÷9)= SQ. YD.	254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (2") SQ. YD.
2	FAI	S.R. 188	LT.	CONCORDIA DR.	24	38	87	167	12.5	8.5	0.5	2.3	1	4.6			25.3	
2	FAI	S.R. 188	LT.	TIKI LANE	34	26	93	225	16.9	11.3	0.5	3.2	1	6.3			17.3	
2	FAI	S.R. 188	LT.	RIDGEVIEW COURT	25	35	79	158	11.9	7.9	0.5	2.2	1	4.4			23.3	
2	FAI	S.R. 188	XX	HANOVER COURT	20	30	58	98	7.4	4.9	0.5	1.4	1	2.7			20.0	
2	FAI	S.R. 188	RT.	MUD HOUSE RD.	31	26	97	212	15.9	10.6	0.5	1.5	1	2.9			17.3	
2	FAI	S.R. 188	LT.	RAINBOW DR.	39	21	76	210	15.8	10.5	0.5	2.9	1	5.8			14.0	
2	FAI	S.R. 188	LT.	BARRY DR.	36	22	70	184	13.8	9.2	0.5	2.6	1	5.1			14.7	
2	FAI	S.R. 188	RT.	PLEASANT WAY	19	23	50	77	5.8	3.9	0.5	1.1	1	2.1			15.3	
2	FAI	S.R. 188	LT.	COONPATH RD. (CO. RD. 31)	34	20	61	153	11.5	7.7	0.5	2.2	1	4.3			13.3	
2	FAI	S.R. 188	RT.	COONPATH RD. (CO. RD. 31)	57	21	24	143	10.8	7.2	0.5	2.0	1	4.0			14.0	
2	FAI	S.R. 188	RT.	BEATTY RD.	18	15	37	52	3.9	2.6	0.5	0.5	1	1.4			10.0	
2	FAI	S.R. 188	LT.	CAROL EASTERN RD.	20	20	51	79	6.0	4.0	0.5	1.1	1	2.2			13.3	
2	FAI	S.R. 188	RT.	CAROL EASTERN RD.	21	15	39	63	4.8	3.2	0.5	0.9	1	1.8			10.0	
				IN PLEASANTVILLE														
2	FAI	S.R. 188	RT.	RICHLAND RD. (CO. RD. 19)	37	22	77	204	15.3	10.2	1	5.7	1	5.7				204
2	FAI	S.R. 188	RT.	ACADEMY ST.	23	22	42	82	6.2	4.1	1	2.3	1	2.3				82
2	FAI	S.R. 188	RT.	ALLEY	4	15	15	7	0.5	0.4	1	0.2	1	0.2				7
2	FAI	S.R. 188	RT.	ALLEY	10	10	13	13	1.0	0.7	1	0.4	1	0.4				13
2	FAI	S.R. 188	LT.	ALLEY	10	9	20	16	1.2	0.8	1	0.4	1	0.4				16
2	FAI	S.R. 188	LT.	WALNUT ST.	22	30	44	90	6.8	4.5	1	2.5	1	2.5				90
2	FAI	S.R. 188	RT.	WALNUT ST.	7	23	25	19	1.5	1.0	1	0.5	1	0.5				19
2	FAI	S.R. 188	LT.	COLUMBUS ST.	13	28	37	47	3.5	2.4	1	1.3	1	1.3				47
2	FAI	S.R. 188	RT.	COLUMBUS ST.	6	40	40	27	2.0	1.4	1	0.8	1	0.8				27
2	FAI	S.R. 188	RT.	EXTRA AREA AT COLUMBUS ST.	167	23		213	16.0	10.7	1	5.9	1	5.9				213
2	FAI	S.R. 188	RT.	ALLEY	14	10	20	23	1.7	1.2	1	0.6	1	0.6				23
2	FAI	S.R. 188	RT.	ALLEY	8	13	22	16	1.2	0.8	1	0.4	1	0.4				16
2	FAI	S.R. 188	RT.	ALLEY	4	13	25	8	1.0	0.4	1	0.2	1	0.2				8
2	FAI	S.R. 188	RT.	HIGH ST.	20	22	41	70	5.3	3.5	1	1.9	1	1.9				70
2	FAI	S.R. 188	LT.	SUMMIT ST.	34	18	50	128	11.9	6.4	1	3.6	1	3.6				128
2	FAI	S.R. 188	LT.	MUSSER RD.	42	15	72	203	15.2	10.2	0.5	2.8	1	5.6			10.0	
2	FAI	S.R. 188	RT.	LAKE RD. (CONNECTOR)	26	15	42	82	6.2	4.1	0.5	1.2	1	2.3			10.0	
2	FAI	S.R. 188	RT.	LAKE RD.	29	16	48	103	7.7	5.2	0.5	1.5	1	2.9			10.7	
2	FAI	S.R. 188	LT.	LAKE RD. (CO. RD. 62)	80	20	113	591	44.3	29.6	0.5	8.2	1	16.4			13.3	
LOCATION 2 CONTINUED ON NEXT SHEET																		
TOTALS (LOCATION 2) (CARRIED TO SHEET 17)									285.5	189.1		64.3		101.5			251.8	963.0

CALCULATED

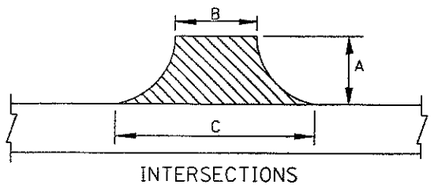
CHECKED

APPROACH ROAD AREAS

FAI-188-14.48
FAI-188-16.02
PER-188-0.00

F188001.MEA 1/5/03

EXTRA AREAS



INTERSECTIONS

LOCATION	COUNTY	ROUTE	SIDE	DESCRIPTION	INTERSECTIONS A IN FEET	INTERSECTIONS B IN FEET	INTERSECTIONS C IN FEET	AREA IN SQ. YD.	PROPOSED PAVEMENT 407 TACK COAT @ 0.075 GAL./S. Y. GAL.	407 TACK COAT FOR INTERMEDIATE COURSE @ 0.05 GAL./S. Y. GAL.	448 ASPHALT CONCRETE THICK INCHES	448 INTERMEDIATE COURSE, TYPE I, PG 64-22 CU. YD.	448 THICK INCHES	448 SURFACE COURSE, TYPE I, PG 64-22 CU. YD.			202 WEARING COURSE REMOVED (6'x"B"÷9)= SQ. YD.	254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (2") SQ. YD.
2	FAI	S.R. 188	RT.	S.R. 256	13	26	55	59	4.4	3.0	0.5	0.8	1	1.6			17.3	
2	FAI	S.R. 188	LT.	S.R. 256	18	26	59	85	6.4	4.3	0.5	1.2	1	2.4			17.3	
2	FAI	S.R. 188	RT.	CATTAIL RD.	32	16	52	121	9.1	6.1	0.5	1.7	1	3.4			10.7	
2	FAI	S.R. 188	LT.	CATTAIL RD.	39	20	74	204	15.3	10.2	0.5	2.9	1	5.7			13.3	
2	FAI	S.R. 188	LT.	WATER ST.	17	15	46	58	4.4	2.9	0.5	0.8	1	1.6			10.0	
2	FAI	S.R. 188	RT.	NEW SALEM RD.	31	21	72	160	12.0	8.0	0.5	2.2	1	4.4			14.0	
2	FAI	S.R. 188	LT.	CANAL RD. (CO. RD. 82)	29	21	69	145	10.9	7.3	0.5	2.0	1	4.0			14.0	
2	FAI	S.R. 188	LT.	EAST ST.	23	16	44	77	5.8	3.9	0.5	1.1	1	2.1			10.7	
2	FAI	S.R. 188		SUB TOTALS (THIS SHEET)					68.3	45.7		12.7		25.2			107.3	
2	FAI	S.R. 188		SUB TOTALS (FROM SHEET 16)					285.5	189.1		64.3		101.5			251.8	963.0
TOTALS (LOCATION 2) (CARRIED TO THE GENERAL SUMMARY)									353.8	234.8		77.0		126.7			359.1	963.0

CALCULATED

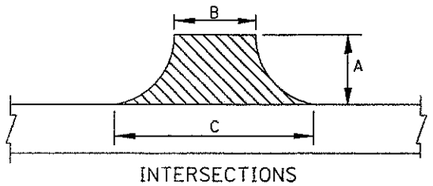
CHECKED

APPROACH ROAD AREAS

FAI-188-14.48
FAI-188-16.02
PER-188-0.00

F18800I.MEA 1/5/03

EXTRA AREAS



INTERSECTIONS

LOCATION	COUNTY	ROUTE	SIDE	DESCRIPTION	INTERSECTIONS A IN FEET	INTERSECTIONS B IN FEET	INTERSECTIONS C IN FEET	AREA IN SQ. YD.	PROPOSED PAVEMENT 407 TACK COAT @ 0.075 GAL./S. Y. GAL.	407 TACK COAT FOR INTERMEDIATE COURSE @ 0.05 GAL./S. Y. GAL.	448 ASPHALT CONCRETE THICK INCHES	448 INTERMEDIATE COURSE, TYPE I, PG 64-22 CU. YD.	448 THICK INCHES	448 SURFACE COURSE, TYPE I, PG 64-22 CU. YD.			202 WEARING COURSE REMOVED (6'x"B"÷9)= SQ. YD.	254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (2") SQ. YD.
3	PER	S.R. 188	LT.	NEW SALEM RD.	98	26	96	664	49.8	33.2	0.5	9.2	1	18.4			17.3	
3	PER	S.R. 188	RT.	TWP. RD. 88	162	12	156	1,512	113.4	75.6	0.5	21.0	1	42.0			8.0	
3	PER	S.R. 188	RT.	HIGH POINT RD.	34	18	46	121	9.1	6.1	0.5	1.7	1	3.4			12.0	
3	PER	S.R. 188	LT.	HIGH POINT RD.	34	16	44	113	8.5	5.7	0.5	1.6	1	3.1			10.7	
3	PER	S.R. 188	LT.	TWP. RD. 82	41	13	40	121	9.1	6.1	0.5	1.7	1	3.4			8.7	
3	PER	S.R. 188	LT.	TWP. RD. 81	42	18	44	145	10.9	7.3	0.5	2.0	1	4.0			12.0	
3	PER	S.R. 188	RT.	TWP. RD. 15	66	11	57	249	18.7	12.5	0.5	3.5	1	6.9			7.3	
3	PER	S.R. 188	LT.	TWP. RD. 390	60	17	55	120	9.0	6.0	0.5	1.7	1	3.3			11.3	
3	PER	S.R. 188	RT.	RIDENOUR RD.	55	18	92	336	25.2	16.8	0.5	4.7	1	9.3			12.0	
3	PER	S.R. 188	LT.	TWP. RD. 80	47	16	60	198	14.9	9.9	0.5	2.8	1	5.5			10.7	
3	PER	S.R. 188	RT.	THORNHILL	28	35	75	171	12.8	8.6	0.5	2.4	1	4.8			23.3	
				IN THORNVILLE														
3	PER	S.R. 188	LT.	ALLEY	20	12		27	2.0	1.4	1	1.0	1	1.0				27
3	PER	S.R. 188	LT.	W. SOUTH ST.	26	21	37	84	6.3	4.2	1	2.3	1	2.3				84
3	PER	S.R. 188	RT.	E. SOUTH ST.	33	32	127	292	22.0	14.6	1	8.1	1	8.1				292
3	PER	S.R. 188	RT.	FIRST ST.	27	18	23	62	4.7	3.1	1	1.7	1	1.7				62
3	PER	S.R. 188	LT.	FIRST ST.	25	13	26	54	4.0	2.7	1	1.5	1	1.5				54
3	PER	S.R. 188	RT.	S.R. 204	20	36	36	80	6.0	4.0	1	2.2	1	2.2				80
3	PER	S.R. 188	LT.	S.R. 204	20	35	35	78	5.9	3.9	1	2.2	1	2.2				78
3	PER	S.R. 188		MAIN ST.	20	35	35	78	5.9	3.9	1	2.2	1	2.2				78
TOTALS (CARRIED TO THE GENRAL SUMMARY)									338.2	225.6		73.5		125.3			133.3	755

CALCULATED

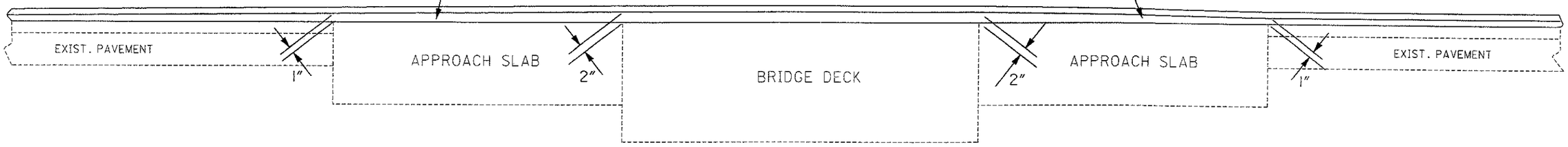
CHECKED

APPROACH ROAD AREAS

FAI-188-14.48
FAI-188-16.02
PER-188-0.00

F166001.MEA 1/5/03

PROPOSED INTERMEDIATE COURSE SHALL BE TAPERED
FROM 1" OVERLAY TO 2" IN 25' AT BRIDGE DECK,
SO AS TO OVERLAY WITH 2" INTERMEDIATE COURSE OVER THE
ENTIRE BRIDGE DECK.
PROPOSED SURFACE COURSE SHALL BE PLACED AT 1" THICKNESS
OVER THE ENTIRE BRIDGE DECK.



BRIDGE NO.
FAI-188-2033

									BRIDGE DECK DATA									
									407		448 ASPHALT CONCRETE				512			
LOCATION	COUNTY, ROUTE, BRIDGE NO.	LENGTH (BRIDGE LIMITS) LIN.FT.	WIDTH LIN.FT.	BRIDGE DECK AREA SQ.YDS.					TACK COAT @ 0.075 GAL./S.Y. GAL.	TACK COAT FOR INTERMEDIATE COURSE @ 0.05 GAL./S.Y. GAL.	THICK 1" INCH	SURFACE COURSE TYPE I, PG 64-22 CY.YD.	THICK 2" INCH	INTERMEDIATE COURSE TYPE I, PG 64-22 CY.YD.	TYPE 3 WATERPROOFING SQ.YD.			
2	FAI-188-2033	25	30	84					6.3	4.2	1"	2.3	2"	4.7	84			
TOTALS LOCATION 2 (CARRIED TO THE GENERAL SUMMARY)									6.3	4.2		2.3		4.7	84			

CALCULATED | CHECKED

BRIDGE DECK TREATMENT

FAI-188-14.48
FAI-188-16.02
PER-188-0.00

19
32

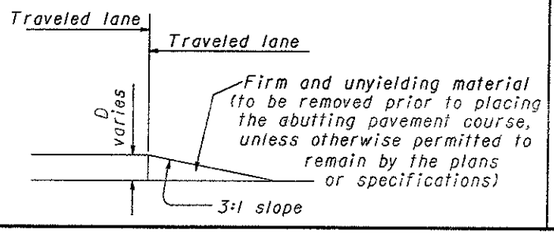
F188001.mbt 3/3/03

GENERAL NOTES

1. It is intended that this drawing be used for treatment of drop-offs that develop during construction operations, and that are not otherwise provided for in the construction plans. Where the plans do not provide specific items for labor, equipment, or materials to implement the drop-off treatments specified hereon, they shall be included for payment in the lump sum bid for Item 614 - Maintaining Traffic.
2. While the need for certain advisory signing is noted hereon, it is not intended that this be indicative of all signing that may be required to advise or warn motorists, and all requirements of the Ohio Manual of Uniform Traffic Control Devices (OMUTCD) must be fulfilled.
3. In urban or otherwise heavily developed areas where pedestrians and/or bicyclists may be present in significant numbers, additional signing and protective measures other than those shown hereon may be required.
4. The drop-off treatment selected for use at any given location shall be as appropriate for the prevailing conditions at the site.
5. Where concrete barrier is specified, it shall be in accordance with Standard Construction Drawing MC-9.2 and Item 622.
6. When drums are specified for a dropoff condition, a minimum number of four drums shall be used. Spacing shall be as indicated in the plans or as specified in the OMUTCD.
7. When OW-151 (Low Shoulder) signs or OW-171 (Uneven Lanes) and OWP-171 signs are required, they shall be placed 750' in advance of the condition, on all intersecting entrance ramps within the limits of the condition and immediately beyond all intersecting roadways within the limits of the condition. When the dropoff condition extends more than one-half mile, additional signs should be erected at intervals of one mile or less.
8. For locations, such as at ramps, lane shifts, lane closures, etc., where traffic is required to negotiate any difference in elevation between pavements, a 3:1 slope treatment similar to the Optional Wedge Treatment shall be provided.
9. Portable concrete barrier shall be placed on the same level as the traffic surface and shall not encroach on lane width(s) designated as the minimum required for traffic use. Where drums are used, and their presence would reduce traveled lane widths to less than 10', drums may be placed on the opposite level from that of traffic provided the dropoff depth does not exceed 5" and approval is granted by the Project Engineer.
10. Pavement Repairs (or similar work):
    a. Lengths greater than 60 feet - utilize appropriate treatment from Condition I.
    b. Lengths of 60 feet or less - repairs shall be effected in accordance with 255.08. Drums may be used as a separator adjacent to the traveled lane.

OPTIONAL WEDGE TREATMENT
(MILLING OR RESURFACING)

1. This treatment may be used when permitted for Condition I only.
2. OW-171 and OWP-171 signs required.



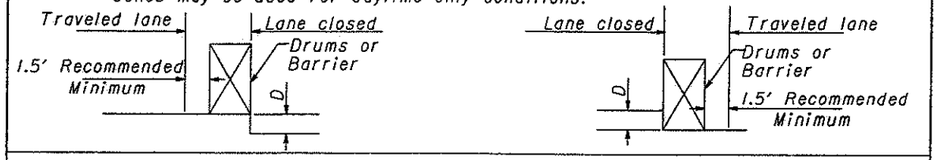
P13DROP.DGN 2/6/03

CONDITION I
DROPOFFS BETWEEN TRAVELED LANES

1. These treatments are to be used for resurfacing, pavement planing, excavation, etc. between or within traveled lanes.

D (In.)	Treatment
≤1½	Erect OW-171 and OWP-171 signs.
>1½-3	1) Lane closure utilizing drums* as shown below OR 2) Optional Wedge Treatment
>3-5	Lane closure utilizing drums as shown below.
>5	Lane closure utilizing portable concrete barrier as shown below.

*Cones may be used for daytime only conditions.

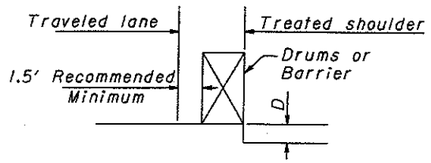


CONDITION II
DROPOFFS WITHIN GRADED SHOULDER AREA

1. The treatments indicated below are for use in conjunction with resurfacing, planing, or excavations within the graded shoulder area.
2. The graded shoulder area is that flat or gradually sloping area between the edge of a normally traveled lane and the more steeply sloping ditch foreslope or embankment slope. Its surface may be soil or turf, and/or it may be inclusive of a "treated" area (improved with aggregates, asphaltic materials, or concrete). For the purposes herein, its maximum width shall be considered to be twelve (12) feet.

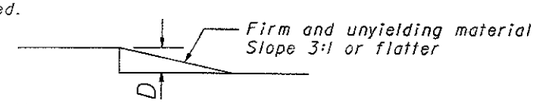
D (In.)	Treatment
≤1½	1) If edgelines are present, no treatment necessary OR 2) Erect OW-171 and OWP-171 signs.
>1½-5	1) If min.* lane width requirements can be met, maintain lanes utilizing drums as shown below OR 2) If min.* lane width requirements cannot be met, close adjacent lane utilizing drums OR 3) Optional Shoulder Treatment.
>5-12 Daylight only	If min.* lane width requirements can be met, maintain lanes utilizing drums as shown below.
>5-24	1) If min.* lane width requirements can be met, maintain lanes utilizing portable concrete barrier as shown below. OR 2) If min.* lane width requirements cannot be met, close adjacent lane utilizing drums.
>24	Lane closure utilizing portable concrete barrier as shown below.

*Minimum lane widths shall be 10' unless otherwise specified in the plans.



OPTIONAL SHOULDER TREATMENT

1. This treatment may not be used within a bituminous shoulder where a hot longitudnal joint per 401.15 is required.
2. OW-151 signs required.

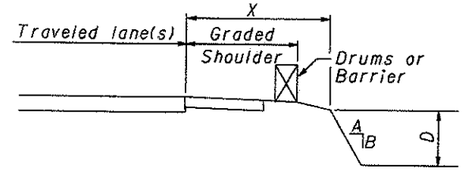


CONDITION III
DROPOFFS BEYOND GRADED SHOULDER OR BACK OF CURB

1. See Note 2 under Condition II.
2. Use Chart A or B below, as applicable.

CHART A

USE FOR:
1. Uncurbed Facilities.
2. Curbed Facilities, where:
   a. Curbs are less than 6" in height.
   b. Curbs are 6" or greater in height and the legal speed is greater than 40 mph.

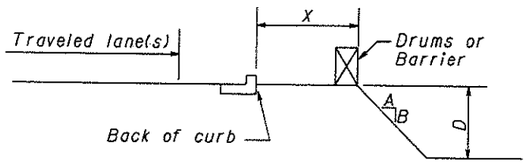


X (Ft.)	D (In.)	A/B	Treatment Required	
			Day	Night
0-4	Any	Any	(a)	(a)
4-30	Any	3:1 or Flatter	None	None
4-12	≤3	Steeper than 3:1	None	None
4-12	>3-≤12	Steeper than 3:1	Drums	Drums
4-12	>12	Steeper than 3:1	Drums	Barrier
>12-20	≤12	Steeper than 3:1	None	None
>12-20	>12-≤24	Steeper than 3:1	Drums	Drums
>12-20	>24	Steeper than 3:1	Drums	Barrier
>20-30	≤24	Steeper than 3:1	None	Drums
>20-30	>24	Steeper than 3:1	Drums	Barrier
>30	Any	Any	None	None

(a) Use treatment specified under Condition II.

CHART B

USE FOR: Curbed facilities, where the curb is 6" or greater in height and the legal speed is 40 mph or less.



X (Ft.)	D (In.)	A/B	Treatment Required	
			Day	Night
0-10	≤12	Any	None	Drums
0-10	>12	Any	Drums	Drums
>10	Any	Any	None	None

CALCULATED | CHECKED

DROPOFFS IN WORK ZONES

FAI-188-14.48
FAI-188-16.02
PER-188-0.00

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
BUREAU OF LOCATION AND DESIGN

DROPOFFS IN WORK ZONES

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED

RPM GENERAL NOTES

MATERIALS SUPPLIED BY THE DEPARTMENT

ALL MATERIALS ARE TO BE CONTRACTOR FURNISHED, EXCEPT THAT THE DEPARTMENT SHALL SUPPLY RAISED PAVEMENT MARKING CASTINGS IN THE QUANTITIES SHOWN HEREIN TO THE CONTRACTOR. PAY ITEMS FOR THE DEPARTMENT SUPPLIED MATERIALS SHALL BE INDICATED IN "INSTALLATION ONLY". THE QUANTITY AND TYPE OF DEPARTMENT SUPPLIED MATERIALS ARE SHOWN ON SHEETS 22-23.

THE CONTRACTOR SHALL PICK UP THE SUPPLIED RAISED PAVEMENT MARKER MATERIALS AT THE

O.P.I.
315 PHILLIPI RD.
COLUMBUS, OHIO 45895

FOR TRANSPORT TO THE WORK SITE OR TO THE CONTRACTOR'S STORAGE FACILITY. THE RECYCLED RAISED PAVEMENT MARKER (RPM) AUTHORIZATION FORM (SS 1082) IS TO BE SIGNED BY THE DISTRICT CONSTRUCTION ENGINEER PRIOR TO PICK UP OF THE RPM'S. THE CONTRACTOR SHALL NOTIFY THE DISTRICT AND/OR THE PARTIES LISTED ON THE AUTHORIZATION FORM IN WRITING AT LEAST FIVE CALENDAR DAYS PRIOR TO PICK UP OF THE DEPARTMENT SUPPLIED MATERIALS. THE CONTRACTOR SHALL STORE THE RPM'S WITHOUT DAMAGE OR CONTAMINATION WITH FOREIGN MATTER. A DEDUCTION IN THE AMOUNT OF THE ACTUAL COST TO THE DEPARTMENT SHALL BE MADE FOR THE MATERIALS DAMAGED BY THE CONTRACTOR OR FOR CASTINGS RECEIVED BY THE CONTRACTOR WHICH WERE NOT INSTALLED AND WERE NOT RETURNED TO THE DEPARTMENT.

RETURN OF NON-PERFORMED RAISED PAVEMENT MARKER MATERIALS SUPPLIED BY THE DEPARTMENT

RAISED PAVEMENT MARKER MATERIALS SUPPLIED BY THE DEPARTMENT, THAT ARE NON-PERFORMED, SHALL BE CAREFULLY PACKED OR REPACKED IN THE BOXES SUPPLIED BY THE RAISED PAVEMENT MARKER RECYCLER. BOXES SHALL BE MARKED WITH THE RECYCLER'S PART OR CATALOG NUMBER, THE ODOT PROJECT NUMBER, THE STYLE OF THE CASTING, AND THE COLOR OF THE PRISMATIC RETRO-REFLECTOR. THE RECYCLER'S CATALOG OR PART NUMBERS MAY BE OBTAINED FOR THE OFFICE OF TRAFFIC ENGINEERING IN COLUMBUS, OHIO. CASTING STYLES SHALL NOT BE MIXED WITHIN A BOX. ANY BOXES NOT PROPERLY PACKED OR MARKED WILL NOT BE ACCEPTED AT THE RECYCLER'S WAREHOUSE.

THE BOXES SHALL BE PLACED ON SKIDS OR PALLETS WITH ONLY ONE STYLE (LOW PROFILE OR CONVENTIONAL, REFLECTORIZED OR NON-REFLECTORIZED) AND NO MORE THAN TWENTY-ONE BOXES (420 RPM'S) ON EACH SKID.

NON-PERFORMED MATERIALS SHALL BE RETURNED, TO A LOCATION SPECIFIED BY THE DISTRICT CONSTRUCTION ENGINEER, WITHIN THIRTY CALENDAR DAYS OF THE COMPLETION OF THE PROJECT.

THE ABOVE WORK INCLUDING ALL LABOR, EQUIPMENT, AND MATERIAL NEEDED TO PERFORM THE WORK, SHALL BE CONSIDERED INCIDENTAL TO THE RESPECTIVE PAY ITEM.

IF THE DEPARTMENT HAS TO REPACKAGE THE RPM'S CORRECTLY, THE CONTRACTOR WILL BE ASSESSED THE ACTUAL COST FOR REPACKAGING THE MATERIALS BY THE DEPARTMENT'S FORCES.

LOADING OF MATERIALS SUPPLIED BY THE DEPARTMENT OF THE RECYCLER'S WAREHOUSE

TRUCKS SHALL HAVE A LOADING HEIGHT OF 48 INCHES AND BE ABLE TO BACK UP FLUSH TO THE LOADING DOCK. TRUCKS SHALL NOT HAVE ANY OBSTRUCTIONS THAT PREVENT THE LOADING BY A STANDARD FORKLIFT OR LIFT TRUCK.

SEMI-TRUCKS OR 20 FOOT COMMERCIAL TRUCKS ARE THE MOST APPROPRIATE TRUCKS FOR LOADS IN EXCESS OF FOUR PALLETS (ONE PALLET=21 BOXES=2100 POUNDS).

STAKE BODY TRUCKS ARE APPROPRIATE TO LOAD LESS THAN FOUR PALLETS, PROVIDED THE TRUCK IS RATED FOR THE LOAD AND THE LOAD CAN BE SAFELY SECURED FOR TRANSPORT BY CHAINING OR STRAPPING DOWN AS NEEDED.

PICKUP TRUCKS ARE APPROPRIATE FOR LOADS OF APPROXIMATELY ONE PALLET, PROVIDED THE PICKUP TRUCK IS RATED FOR THE LOAD AND THE LOAD CAN BE SAFELY SECURED FOR TRANSPORT.

DUMP TRUCKS, TILT BED TRUCKS, AND NON COMMERCIAL MOVING VANS WILL NOT BE LOADED BY THE RECYCLER'S WAREHOUSE.

THE WAREHOUSE SUPERVISOR WILL REFUSE TO LOAD ANY TRUCK THAT IS UNSAFE TO LOAD OR UNSUITABLE FOR THE LOAD BEING PLACED ON THE TRUCK.

CALCULATED SAB
CHECKED LME

GENERAL NOTES

FAI-188-14.48
FAI-188-16.02
PER-188-0.00

21
32

F188004.MGN 02/6/03

LOCATION SUB-SUMMARY

DETAIL	
1	TAPERED ACCELERATION LANE
2	DECELERATION LANE
3	MULTILANE DIVIDED/ CONTROLLED ACCESS

DETAIL	
4	4 LANE DIVIDED TO 2 LANE TRANSITION
5	4 LANE UNDIVIDED TO 2 LANE TRANSITION
6	ONE LANE BRIDGE
7	STOP APPROACH
8	THRU APPROACH
9	TWO WAY LEFT TURN LANE

DETAIL	
10	APPROACH W/LT. TURN LANE
11	HORIZONTAL CURVE 40' (NOTE 2)
12	HORIZONTAL CURVE ALT. (NOTE 3)
GAP	CENTERLINE AT 80' TYP.

LOCATION NUMBER	LOCATION				DETAIL	RPM	ITEM QUANTITIES INSTALLATION ONLY			PRISMATIC RETRO-REFLECTOR	PRISMATIC RETRO-REFLECTOR COLORS					REMARKS
	COUNTY	ROUTE	S.L.M. MILES FROM	S.L.M. MILES TO			RPM	RPM CASTING	PRISMATIC RETRO-		ONE-WAY WHITE	ONE-WAY YELLOW	TWO-WAY YELLOW/YELLOW	TWO-WAY WHITE/RED	TWO-WAY YELLOW/RED	
2	FAI	SR 188	16.02	16.40	GAP		25						25			START LANCASTER EAST CORP.
	FAI	SR 188	16.40	16.49	11		12						12			PC 16.40 PT 16.49 L=475' DEG 6
	FAI	SR 188	16.49	16.76	GAP		18						18			
	FAI	SR 188	16.76	19.96	12		29						29			PC 16.85 PT 16.87 L=106' DEG 12
	FAI	SR 188	19.96	17.13	GAP		11						11			
	FAI	SR 188	17.13	17.33	12		29						29			PC 17.22 PT 17.24 L=106' DEG 23
	FAI	SR 188	17.33	17.36	GAP		2						2			
	FAI	SR 188	17.36	17.40	11		5						5			PC 17.36 PT 17.40 L=211' DEG 9
	FAI	SR 188	17.40	17.74	GAP		22						22			
	FAI	SR 188	17.74	17.95	12		32						32			PC 17.83 PT 17.86 L=158' DEG 28
	FAI	SR 188	17.95	18.22	GAP		18						18			
	FAI	SR 188	18.22	18.30	11		11						11			PC 18.22 PT 18.30 L= 422' DEG 9
	FAI	SR 188	18.30	19.35	GAP		69						69			
	FAI	SR 188	19.35	19.54	12		29						29			PC 19.44 PT 19.47 L=158' DEG 16
	FAI	SR 188	19.54	19.56	11		3						3			PC 19.54 PT 19.56 L=106' DEG 9
	FAI	SR 188	19.56	20.12	GAP		37						37			
	FAI	SR 188	20.12	20.32	12		29						29			PC 20.21 PT 20.23 L=106' DEG 21
	FAI	SR 188	20.32	20.38	GAP		4						4			
	FAI	SR 188	20.38	20.42	11		5						5			PC 20.38 PT 20.42 L=211' DEG 7
	FAI	SR 188	20.42	20.59	12		26						26			PC 20.47 PT 20.50 L=158' DEG 13
	FAI	SR 188	20.59	21.30	GAP		47						47			
	FAI	SR 188	21.30	21.38	11		11						11			PC 21.30 PT 21.38 L=422' DEG 6
	FAI	SR 188	21.38	21.61	GAP		15						15			
	FAI	SR 188	21.61	21.63	11		3						3			PC 21.61 PT 21.63 L=106' DEC9
	FAI	SR 188	21.63	22.77	GAP		75						75			
	FAI	SR 188	22.77	22.98	12		32						32			PC 22.86 PT 22.89 L=158' DEG 12
	FAI	SR 188	22.98	24.54	GAP		103						103			
	FAI	SR 188	24.54	24.75	12		32						32			PC 24.63 PT 24.66 L=158' DEG 11
	FAI	SR 188	24.75	25.96	GAP		80						80			
	FAI	SR 188	25.96	26.17	12		32						32			PC 26.05 PT 26.08 L=158' DEG 13
	FAI	SR 188	26.17	26.53	GAP		24						24			
2	TOTALS CARRIED TO GENERAL SUMMARY						870						870			

CALCULATED SAB
CHECKED LME

RPM LOCATION SUB-SUMMARY

FAI-188-14.48
FAI-188-16.02
PER-188-0.00

22
32

03-17-03

FAI188001.TRM

CALC. BY SAB
DATE 07-02-02

CHKD. BY_____
DATE _____

LOCATION SUB-SUMMARY

DETAIL	
1	TAPERED ACCELERATION LANE
2	DECELERATION LANE
3	MULTILANE DIVIDED/ CONTROLLED ACCESS

DETAIL	
4	4 LANE DIVIDED TO 2 LANE TRANSITION
5	4 LANE UNDIVIDED TO 2 LANE TRANSITION
6	ONE LANE BRIDGE
7	STOP APPROACH
8	THRU APPROACH
9	TWO WAY LEFT TURN LANE

DETAIL	
10	APPROACH W/LT. TURN LANE
11	HORIZONTAL CURVE 40' (NOTE 2)
12	HORIZONTAL CURVE ALT. (NOTE 3)
GAP	CENTERLINE AT 80' TYP.

LOCATION NUMBER	LOCATION				DETAIL	RPM	ITEM QUANTITIES INSTALLATION ONLY			PRISMATIC RETRO-REFLECTOR	PRISMATIC RETRO-REFLECTOR COLORS					REMARKS
	COUNTY	ROUTE	S.L.M. MILES FROM	S.L.M. MILES TO			RPM	RPM CASTING	PRISMATIC RETRO-REFLECTOR		ONE-WAY WHITE	ONE-WAY YELLOW	TWO-WAY YELLOW/YELLOW	TWO-WAY WHITE/RED	TWO-WAY YELLOW/RED	
3	PER	SR 188	0.00	0.11	GAP		7						7			START FAIRFIELD COUNTY
	PER	SR 188	0.11	0.36	12		42						42			PC 0.20 PT 0.27 L=370' DEG 14
	PER	SR 188	0.36	0.55	12		31						31			PC 0.42 PT 0.46 L=211' DEG 14
	PER	SR 188	0.55	0.71	GAP		11						11			
	PER	SR 188	0.71	0.75	11		5						5			PC 0.71 PT 0.75 L=211' DEG 7
	PER	SR 188	0.75	3.63	GAP		190						190			
	PER	SR 188	3.63	3.67	11		5						5			PC 3.63 PT 3.67 L=211' DEG 9
	PER	SR 188	3.67	3.74	GAP		5						5			
	PER	SR 188	3.74	3.78	11		5						5			PC 3.74 PT 3.78 L=211' DEG 8
	PER	SR 188	3.78	4.03	GAP		17						17			
	PER	SR 188	4.03	4.15	12		20						20			PC 4.12 PT 4.15 L=158' DEG 15
	PER	SR 188	4.15	4.29	12		24						24			PC 4.16 PT 4.20 L=211' DEG 12
	PER	SR 188	4.29	4.48	GAP		12						12			
3	TOTALS CARRIED TO GENERAL SUMMARY						374						374			

CALCULATED SAB
CHECKED LME

RPM LOCATION SUB-SUMMARY

FAI-188-14.48
FAI-188-16.02
PER-188-0.00

23
32

P188001.TRM 03-17-03

PART	ROUTE	SIDE	ITEM 644 THERMOPLASTIC																REMARKS
			8" CHANNELIZING LINE	STOP LINE	12" CROSSWALK LINE	24" TRANSVERSE LINE		ISLAND MARKING	RAILROAD SYMBOL MARKING	SCHOOL SYMBOL MARKING		LANE ARROW				WORD ON PAVEMENT, "ONLY"		
				24"		WHITE	YELLOW	YELLOW		72"	96"	TURN LEFT	TURN RIGHT	THRU	COMB.	72"	96"	
			FT.	FT.	FT.	FT.	FT.	SQ. FT.	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	
FAI.	S.R. 188 (URBAN)																	
	IN LANCASTER																	
1	ON CHERRY ST. (S.R. 188) @ MAIN ST. (U.S. 22)		100	24	82													SEE SHEET 29
1	ALLEY	LT.																NO EXISTING PAVEMENT MARKINGS
1	ALLEY	RT.																NO EXISTING PAVEMENT MARKINGS
1	ANGLE ST.	RT.		26	90													REPLACE AT EXISTING LOCATION
1	WHEELING ST.	LT.		12	84													REPLACE AT EXISTING LOCATION
1	ON CHERRY ST. (S.R. 188) AFTER WHEELING ST.				72													REPLACE AT EXISTING LOCATION
1	ALLEY	LT.			34													REPLACE AT EXISTING LOCATION
1	MULBERRY ST.	LT.		15	70													REPLACE AT EXISTING LOCATION
1	ALLEY	LT.			30													REPLACE AT EXISTING LOCATION
1	ALLEY	RT.			20													REPLACE AT EXISTING LOCATION
1	ALLEY	LT.			40													REPLACE AT EXISTING LOCATION
1	ALLEY	LT.																NO EXISTING PAVEMENT MARKINGS
1	KING ST.	LT.		12	64													REPLACE AT EXISTING LOCATION
1	FIFTH AVE.	LT.		15	72													REPLACE AT EXISTING LOCATION
1	ON CHERRY ST. (S.R. 188) @ SIXTH AVE.		420	20	180								2		2	1		SEE SHEET 29
1	SHERIDAN DR.	LT.		21								1			1			SEE SHEET 29
1	ON PLEASANTVILLE RD. (S.R. 188) BEFORE GOSLIN DR.		64	37	174							1			1	1		SEE SHEET 29
1	GOSLIN DR.	RT.		22	82													SEE SHEET 29
1	TURN LANE TO HOSPITAL PARKING	RT.	140										2			1		SEE SHEET 29
1	ON PLEASANTVILLE RD. (S.R. 188) AFTER GOSLIN DR.		320	22											8			SEE SHEET 30
1	ON PLEASANTVILLE RD. (S.R. 188) BEFORE EWING ST.			12				77	57									SEE SHEET 30
1	EWING ST.	RT.	40	24														REPLACE AT EXISTING LOCATION
1	ON PLEASANTVILLE RD. (S.R. 188) AFTER EWING ST.		81	22				54				1		1		2		SEE SHEET 30
1	BALDWIN DR.	RT.		29														REPLACE AT EXISTING LOCATION
1	KEMPER AVE.	RT.		16														REPLACE AT EXISTING LOCATION
1	ON PLEASANTVILLE RD. (S.R. 188) BEFORE KANAWHA RD.							65	57									SEE SHEET 30
1	KANAWHA RD.	RT.		35														REPLACE AT EXISTING LOCATION
1	ON PLEASANTVILLE RD. (S.R. 188) AFTER KANAWHA RD.							65				1		1		2		SEE SHEET 30
1	MARIETTA RD.	RT.		38														REPLACE AT EXISTING LOCATION
1	WHEELING RD.	RT.		21														REPLACE AT EXISTING LOCATION
1	LYNN DR.	LT.		25														REPLACE AT EXISTING LOCATION
	SUB-TOTALS							261				4	4	2	12			
	TOTALS (LOCATION 1)(CARRIED TO GENERAL SUMMARY)		1,165	448	1,094	261		114				22				7		

CALCULATED

CHECKED

PAVEMENT MARKING SUB-SUMMARY

FAI-188-14.48
FAI-188-16.02
PER-188-0.00

F188PMSZ.DGN 3/12/03

PART	ROUTE	SIDE	ITEM 644 THERMOPLASTIC																REMARKS
			8" CHANNELIZING LINE	STOP LINE	12" CROSSWALK LINE	24" TRANSVERSE LINE		ISLAND MARKING	RAILROAD SYMBOL MARKING	SCHOOL SYMBOL MARKING		LANE ARROW				WORD ON PAVEMENT, "ONLY"		
												TURN		THRU	COMB.			
				24"		WHITE	YELLOW	YELLOW		72"	96"	LEFT	RIGHT			72"	96"	
			FT.	FT.	FT.	FT.	FT.	SQ. FT.	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	
FAI.	S.R. 188 (RURAL)																	
2	CONCORDIA DR.	LT.		26														REPLACE AT EXISTING LOCATION
2	TIKI LANE	LT.		22														REPLACE AT EXISTING LOCATION
2	RIDGEVIEW CT.	LT.		20														REPLACE AT EXISTING LOCATION
2	HANOVER CT.	LT.		17														REPLACE AT EXISTING LOCATION
2	ON S.R. 188										1							REPLACE AT EXISTING LOCATION
2	ON S.R. 188										1							REPLACE AT EXISTING LOCATION
2	MUD HOUSE RD.	RT.		30														REPLACE AT EXISTING LOCATION
2	RAINBOW DR.	LT.		16														REPLACE AT EXISTING LOCATION
2	BARRY DR.	LT.		25														REPLACE AT EXISTING LOCATION
2	PLEASANT WAY	RT.		16														REPLACE AT EXISTING LOCATION
2	ON S.R. 188 BEFORE COONPATH RD.			18														REPLACE AT EXISTING LOCATION
2	COONPATH RD. (CO. RD. 31)	LT.		22														REPLACE AT EXISTING LOCATION
2	COONPATH RD. (CO. RD. 31)	RT.		18														REPLACE AT EXISTING LOCATION
2	ON S.R. 188 AFTER COONPATH RD.			18														REPLACE AT EXISTING LOCATION
2	BEATTY RD.	RT.		14														REPLACE AT EXISTING LOCATION
2	CARROL EASTERN RD.	LT.		14														REPLACE AT EXISTING LOCATION
2	CARROL EASTERN RD.	RT.		14														REPLACE AT EXISTING LOCATION
	IN PLEASANTVILLE																	
2	RICHLAND RD. (CO. RD. 19)	RT.		31														REPLACE AT EXISTING LOCATION
2	ON S.R. 188									1								REPLACE AT EXISTING LOCATION
2	ACADEMY ST.	RT.		11	62													REPLACE AT EXISTING LOCATION
2	ALLEY	RT.		7														REPLACE AT EXISTING LOCATION
2	ALLEY	RT.		7														REPLACE AT EXISTING LOCATION
2	ALLEY	LT.		7														REPLACE AT EXISTING LOCATION
2	WALNUT ST.	LT.		18	78													REPLACE AT EXISTING LOCATION
2	WALNUT ST.	RT.			44													REPLACE AT EXISTING LOCATION
2	ON S.R. 188 AFTER WALNUT ST.				74													REPLACE AT EXISTING LOCATION
2	ON S.R. 188 BEFORE COLUMBUS ST.				82													REPLACE AT EXISTING LOCATION
2	COLUMBUS ST.	LT.		14	74													REPLACE AT EXISTING LOCATION
2	COLUMBUS ST.	RT.		20	80													REPLACE AT EXISTING LOCATION
2	ON S.R. 188 AFTER COLUMBUS ST.				100													REPLACE AT EXISTING LOCATION
2	ON S.R. 188									1								REPLACE AT EXISTING LOCATION
2	ALLEY	RT.		7														REPLACE AT EXISTING LOCATION
2	ALLEY	RT.		7														REPLACE AT EXISTING LOCATION
2	ALLEY	RT.		7														REPLACE AT EXISTING LOCATION
2	ON S.R. 188 BEFORE HIGH ST.				52													REPLACE AT EXISTING LOCATION
2	HIGH ST.	RT.		11	44													REPLACE AT EXISTING LOCATION
2	ON S.R. 188								1									REPLACE AT EXISTING LOCATION
2	SUMMIT ST.	LT.		10														REPLACE AT EXISTING LOCATION
2	ON S.R. 188								1									REPLACE AT EXISTING LOCATION
2	MUSSER RD.	LT.		29														REPLACE AT EXISTING LOCATION
2	LAKE RD. (CONNECTOR)	RT.		17														REPLACE AT EXISTING LOCATION
2	LAKE RD.	RT.		22														REPLACE AT EXISTING LOCATION
2	LAKE RD. (CO. RD. 62)	LT.		17														REPLACE AT EXISTING LOCATION
2	S.R. 256	LT.		17														REPLACE AT EXISTING LOCATION
2	S.R. 256	RT.		17														REPLACE AT EXISTING LOCATION
2	CATTAIL RD.	LT.		19														REPLACE AT EXISTING LOCATION
2	CATTAIL RD.	RT.		13														REPLACE AT EXISTING LOCATION
	TOTALS (LOCATION 2)(CARRIED TO SHEET 26)			598	690				2	2	2							

CALCULATED

CHECKED

PAVEMENT MARKING SUB-SUMMARY

FAI-188-14.48
FAI-188-16.02
PER-188-0.00

F188FMS2.DGN 3/12/03

PART	ROUTE	SIDE	ITEM 644 THERMOPLASTIC															REMARKS
			8" CHANNELIZING LINE	STOP LINE	12" CROSSWALK LINE	24" TRANSVERSE LINE		ISLAND MARKING	RAILROAD SYMBOL MARKING	SCHOOL SYMBOL MARKING		LANE ARROW				WORD ON PAVEMENT, "ONLY"		
				24"		WHITE	YELLOW	YELLOW		72"	96"	TURN LEFT	TURN RIGHT	THRU	COMB.	72"	96"	
			FT.	FT.	FT.	FT.	FT.	SQ. FT.	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	
FAI.	S.R. 188 (RURAL)(CON'T.)																	
2	WATER ST.	LT.		8														
2	NEW SALEM RD.	RT.		12														REPLACE AT EXISTING LOCATION
2	CANAL RD. (CO. RD. 82)	LT.		12														REPLACE AT EXISTING LOCATION
2	EAST ST.	LT.		8														REPLACE AT EXISTING LOCATION
																		REPLACE AT EXISTING LOCATION
2	NEW SALEM RD. (CO. RD. 82)	LT.		10														REPLACE AT EXISTING LOCATION
TOTALS (LOCATION 2)(THIS SHEET)				50														
TOTALS (LOCATION 2)(FROM SHEET 25)				598	690				2	2	2							
TOTALS (LOCATION 2)				648	690				2	2	2							
PER.	S.R. 188																	
3	TWP. RD. 88	RT.		33														REPLACE AT EXISTING LOCATION
3	HIGH POINT RD. (CO. RD. 29)	LT.		10														REPLACE AT EXISTING LOCATION
3	HIGH POINT RD. (CO. RD. 29)	RT.		16														REPLACE AT EXISTING LOCATION
3	TWP. RD. 82	LT.		13														REPLACE AT EXISTING LOCATION
3	TWP. RD. 81	LT.		15														REPLACE AT EXISTING LOCATION
3	TWP. RD. 15	RT.		13														REPLACE AT EXISTING LOCATION
3	TWP. RD. 390	LT.		17														REPLACE AT EXISTING LOCATION
3	RIDENOUR RD. (CO. RD. 28)	RT.		24														REPLACE AT EXISTING LOCATION
3	TWP. RD. 80	LT.		16														REPLACE AT EXISTING LOCATION
3	THORNHILL SUB-DIVISION	RT.		20														REPLACE AT EXISTING LOCATION
	IN THORNVILLE																	
3	ALLEY	LT.		6	24													REPLACE AT EXISTING LOCATION
3	W. SOUTH ST.	LT.		13	50													REPLACE AT EXISTING LOCATION
3	E. SOUTH ST.	RT.		16	66													REPLACE AT EXISTING LOCATION
3	FIRST ST.	LT.		11	26													REPLACE AT EXISTING LOCATION
3	FIRST ST.	RT.		9	36													REPLACE AT EXISTING LOCATION
3	S.R. 188 BEFORE S.R. 204			11	68													REPLACE AT EXISTING LOCATION
3	S.R. 204	LT.		12	70													REPLACE AT EXISTING LOCATION
3	S.R. 204	RT.		12	70													REPLACE AT EXISTING LOCATION
3	MAIN ST. (AFTER S.R. 204)				68													REPLACE AT EXISTING LOCATION
TOTALS (LOCATION 3)				267	478													
TOTALS (CARRIED TO GENERAL SUMMARY)				915	1,168				2	2	2							

CALCULATED

CHECKED

PAVEMENT MARKING SUB-SUMMARY

FAI-188-14.48
FAI-188-16.02
PER-188-0.00

F188PMS2.DGN 3/12/03

CALCULATED | CHECKED

CENTER LINE SUB-SUMMARY

COUNTY	ROUTE	S.L.M. FROM	S.L.M. TO	ITEM 644 CENTER LINE, QUANTITIES: TOTAL MILES	ITEM 644 CENTER LINE, QUANTITIES: EQUIVALENT SOLID LINE	PARTICIPATION TYPE: IRG	PARTICIPATION TYPE: FG	PARTICIPATION TYPE: RSG	PARTICIPATION TYPE: NON-FEDERAL (STATE)	CENTER LINE TOTAL MILES	REMARKS
		IN LANCASTER									
FAIRFIELD	S.R. 188	14.48	16.02	1.64	3.280					1.64	MAIN ST. (BEGIN S.R. 188) TO LANCASTER EAST CORP. LINE
TOTALS (LOCATION 1)				1.64	3.280					1.64	
TOTALS (CARRIED TO GENERAL SUMMARY)					3.280 (*)					1.64	

(*) - FOR INFORMATION ONLY

COUNTY	ROUTE	S.L.M. FROM	S.L.M. TO	ITEM 642 CENTER LINE, TYPE 1 QUANTITIES: TOTAL MILES	ITEM 642 CENTER LINE, TYPE 1 QUANTITIES: EQUIVALENT SOLID LINE	PARTICIPATION TYPE: IRG	PARTICIPATION TYPE: FG	PARTICIPATION TYPE: RSG	PARTICIPATION TYPE: NON-FEDERAL (STATE)	CENTER LINE TOTAL MILES	REMARKS
FAIRFIELD	S.R. 188	16.02	26.53	10.51	16.344					10.51	LANCASTER EAST CORP. LINE TO FAIRFIELD/PERRY CO. LINE
TOTALS (LOCATION 2)				10.51	16.344					10.51	
PERRY	S.R. 188	0.00	4.48	4.48	8.124					4.48	FAIRFIELD/PERRY CO. LINE TO S.R. 204 (END S.R. 188)
TOTALS (LOCATION 3)				4.48	8.124					4.48	
TOTALS (CARRIED TO GENERAL SUMMARY)					24.468 (*)					14.99	

(*) - FOR INFORMATION ONLY

FAI-188-14.48
FAI-188-16.02
PER-188-0.00

FIBRCLSS.DGN 3/12/03

COUNTY	ROUTE	S.L.M. FROM	S.L.M. TO	ITEM 642 EDGE LINE, TYPE 1 QUANTITIES (WHITE) TOTAL MILES	HIGHWAY	RAMP	PARTICIPATION TYPE IRG	FG	RSG	NON-FEDERAL (STATE)	EDGE LINE TOTAL MILES	REMARKS
FAIRFIELD	S.R. 188	16.02	26.53	10.51	10.51						21.02	LANCASTER EAST CORP. LINE TO FAIRFIELD/PERRY CO. LINE
TOTALS (LOCATION 2)				10.51	10.51						21.02	
PERRY	S.R. 188	0.00	4.48	4.48	4.48						8.96	FAIRFIELD/PERRY CO. LINE TO S.R. 204 (END S.R. 188)
TOTALS (LOCATION 3)				4.48	4.48						8.96	
TOTALS (CARRIED TO GENERAL SUMMARY)											29.98	

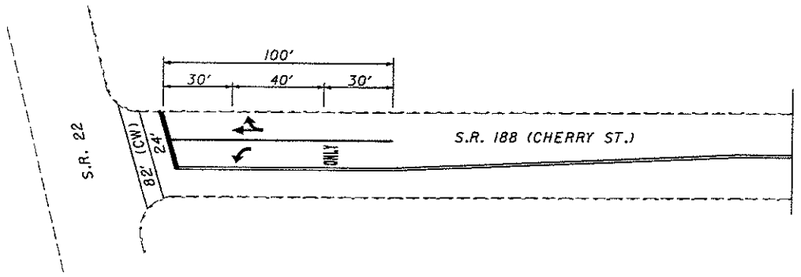
CALCULATED

CHECKED

EDGE LINE SUB-SUMMARY

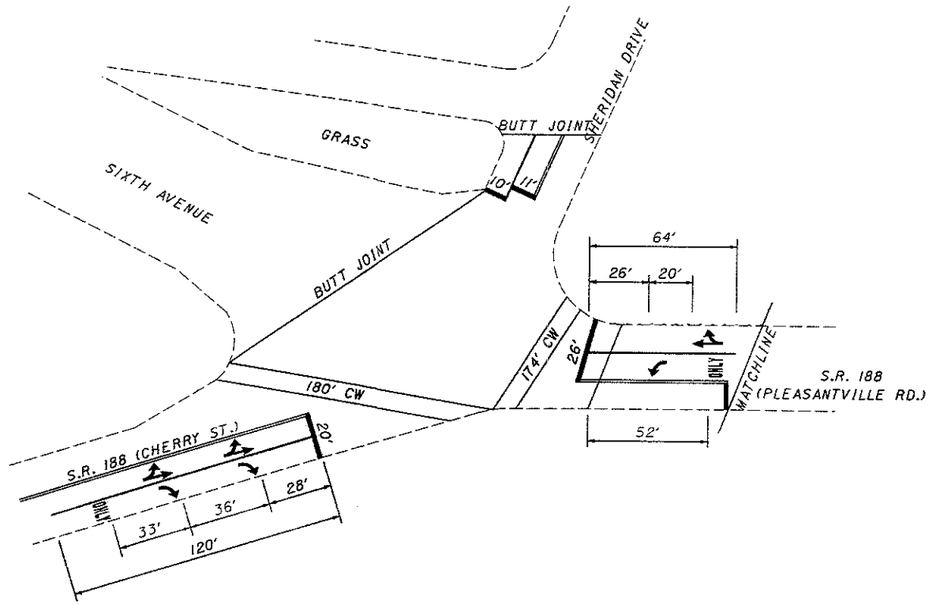
FAI-188-14.48
FAI-188-16.02
PER-188-0.00

FI88ELSS.DGN 3/11/03



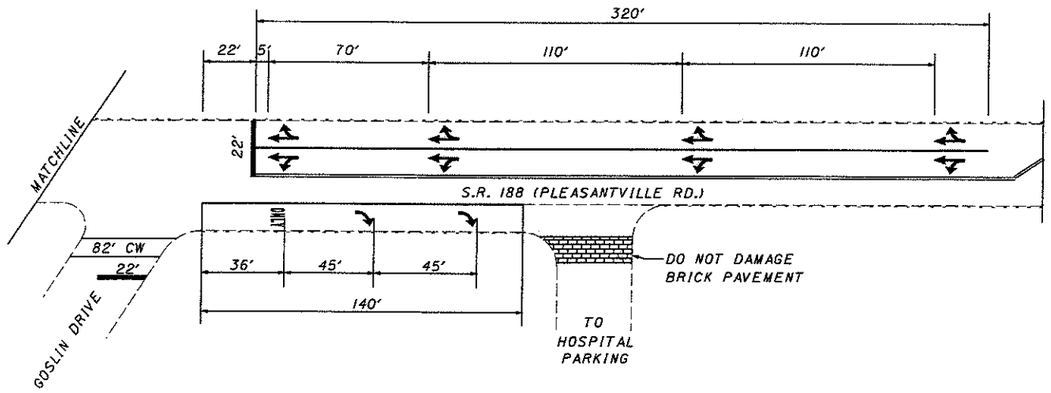
S.R. 188 AND S.R. 22 (IN LANCASTER)

FOR PAVEMENT MARKING QUANTITIES
SEE SHEETS 24-26.



S.R. 188 AND SIXTH AVENUE (IN LANCASTER)

FOR PAVEMENT MARKING QUANTITIES
SEE SHEETS 24-26.



S.R. 188 AND GOSLIN DRIVE (IN LANCASTER)

FOR PAVEMENT MARKING QUANTITIES
SEE SHEETS 24-26.

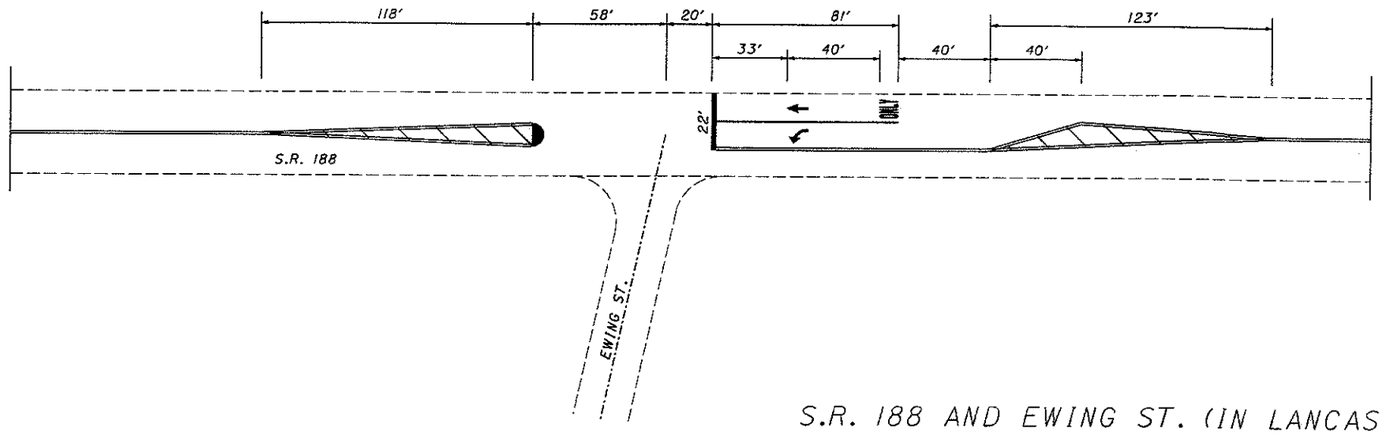
CALCULATED
CHECKED

PAVEMENT MARKING DETAILS

FAI-188-14.48
FAI-188-16.02
PER-188-0.00

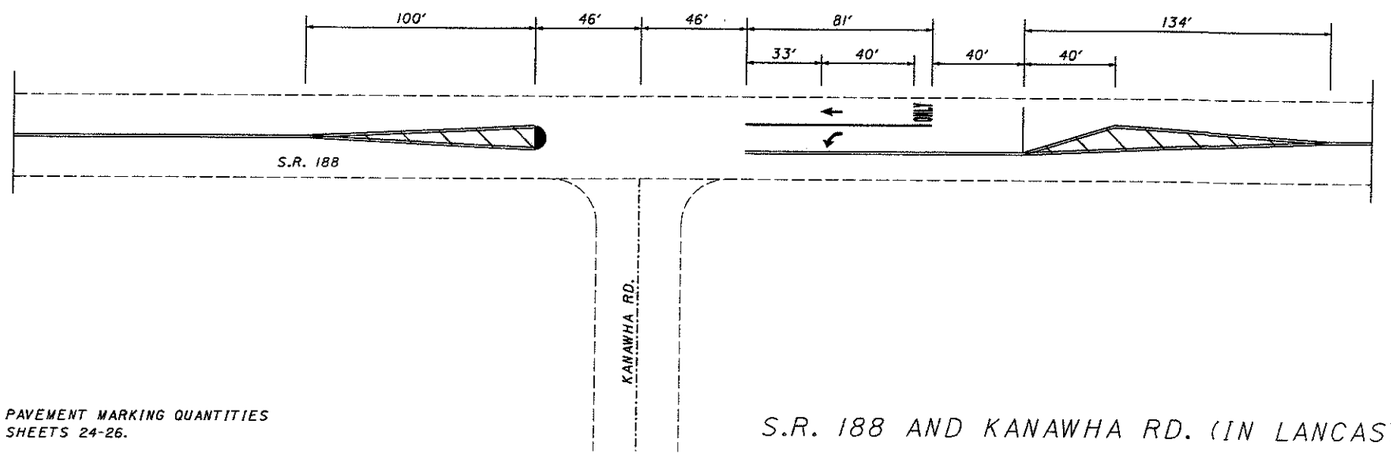
29
32

F188PMSJ.DGN 3/10/05



S.R. 188 AND EWING ST. (IN LANCASTER)

FOR PAVEMENT MARKING QUANTITIES
SEE SHEETS 24-26.



S.R. 188 AND KANAWHA RD. (IN LANCASTER)

FOR PAVEMENT MARKING QUANTITIES
SEE SHEETS 24-26.

CALCULATED
CHECKED

PAVEMENT MARKING DETAILS

FAI-188-14.48
FAI-188-16.02
PER-188-0.00

P188PMSS.DGN 3/10/03

GENERAL SUMMARY

SHEET NUMBER 2	3	4	5	6	8	9	11	12	13	14	15	17	18	19	PARTICIPATION 100% STATE	20% LANC. 80% STATE	100% LANC.	ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
		950											134		1,084			202	23500	1,084	SQ. YD.	WEARING COURSE REMOVED	
					2,579	2,348											4,927	202	30000	4,927	SQ. FT.	WALK REMOVED	
					435	53									53		435	202	32000	488	FT.	CURB REMOVED	
	1,354														1,354			202	54100	1,354	EACH	RAISED PAVEMENT MARKER REMOVED FOR STORAGE	
100															100			202	98300	100	SQ. YD.	REMOVAL MISC.: RESIDENCE AND COMMERCIAL DRIVES	
	18														16	2		SPECIAL	20363000	18	HOUR	GRADER RENTAL	3
	9														8	1		SPECIAL	20363500	9	HOUR	LOADER RENTAL	3
	2,500														2,000	500		253	01001	2,500	SQ. YD.	PAVEMENT REPAIR, AS PER PLAN	3
							29,177	15,156			2,413	963	755		16,874	31,590		254	01001	48,464	SQ. YD.	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN	3
				512											512			301	46000	512	CU. YD.	ASPHALT CONCRETE BASE, PG 64-22	
		45					2,383	13,258	37	2,535	184	354	339	7	16,528	2,614		407	10000	19,142	GALLON	TACK COAT	
				154			1,589	8,839	25	1,691	123	235	226	5	11,150	1,737		407	14000	12,887	GALLON	TACK COAT FOR INTERMEDIATE COURSE	
			87,289												78,048	9,241		407	98000	87,289	FT.	TACK COAT, MISC.: FOR LONGITUDINAL JOINT	5
72	350	115		86			72	4,900	14	939		77	74	5	6,531	173		448	46020	6,704	CU. YD.	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG64-22	
72		115		86			72	4,900	14	939		127	126	3	6,331	123		448	47020	6,454	CU. YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22	
														84	84			512	33010	84	SQ. YD.	TYPE 3 WATERPROOFING	
		12													10		2	604	09000	12	EACH	CATCH BASIN ADJUSTED TO GRADE	
		14													5		9	604	20600	14	EACH	INLET ADJUSTED TO GRADE	
		2															2	604	20601	2	EACH	INLET ADJUSTED TO GRADE, AS PER PLAN	4
		25													14		11	604	34500	25	EACH	MANHOLE ADJUSTED TO GRADE	
					1,447	890									890		1,447	608	12000	2,337	SQ. FT.	5" CONCRETE WALK	
					1,060	1,810									1,810		1,060	608	52000	2,870	SQ. FT.	CURB RAMP	
					164	232									232		164	608	98000	396	SQ. FT.	WALKWAY MISC.: TRUNCATED DOMES ON CURB RAMPS	7
					13	4									4		13	608	98200	17	EACH	WALKWAY MISC.: TRUNCATED DOMES	7
					304												304	609	26000	304	FT.	CURB, TYPE 6	
							811	11			69				11	880		857	10000	891	CU. YD.	ASPHALT CONCRETE WITH GILSONITE, SURFACE COURSE, TYPE 1	
							811	11			69				11	880		857	19000	891	CU. YD.	ASPHALT CONCRETE WITH GILSONITE, INTERMEDIATE COURSE, TYPE 1	
			50												50			614	11100	50	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR	
		588													468	120		614	12460	588	EACH	WORK ZONE MARKING SIGN	
		45													35	10		614	13000	45	CU. YD.	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
							3.50	29.56							29.56	3.50		614	21400	33.06	MILE	WORK ZONE CENTER LINE, CLASS II	
	1,165															1,165		614	23200	1,165	FT.	WORK ZONE CHANNELIZING LINE, CLASS I, 642 PAINT	
	812														364	448		614	26200	812	FT.	WORK ZONE STOP LINE, CLASS I, 642 PAINT	
	2,262														1,168	1,094		614	27200	2,262	FT.	WORK ZONE CROSSWALK LINE, CLASS I, 642 PAINT	
	22															22		614	30200	22	EACH	WORK ZONE LANE ARROW, CLASS I, 642 PAINT	

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SHEET NUMBER													PARTICIPATION			ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
2	4	6	10	13	14	22	23	24	26	27	28		100% STATE	20% LANC. 80% STATE	100% LANC.						
		58		42	2,814								2,872	42		617	10101	2,914	CU. YD.	COMPACTED AGGREGATE, TYPE A, AS PER PLAN	5
						870	374						1,244			621	00200	1,244	EACH	RPM, INSTALLATION ONLY	
10															10	632	26501	10	EACH	DETECTOR LOOP, AS PER PLAN	2
	31												8		23	638	10800	31	EACH	VALVE BOX ADJUSTED TO GRADE	
											29.98		29.98			642	00100	29.98	MILE	EDGE LINE, TYPE I	
										14.99			14.99			642	00300	14.99	MILE	CENTER LINE, TYPE I	
										1.64				1.64		644	00300	1.64	MILE	CENTER LINE	
								1,165						1,165		644	00400	1,165	FT.	CHANNELIZING LINE	
								448	915				915	448		644	00500	1,363	FT.	STOP LINE	
								1,094	1,168				1,168	1,094		644	00600	2,262	FT.	CROSSWALK LINE	
								261						261		644	00700	261	FT.	TRANSVERSE LINE	
								114						114		644	00900	114	SQ. FT.	ISLAND MARKING	
									2				2			644	01000	2	EACH	RAILROAD SYMBOL MARKING	
									2				2			644	01100	2	EACH	SCHOOL SYMBOL MARKING, 72"	
									2				2			644	01110	2	EACH	SCHOOL SYMBOL MARKING, 96"	
								22						22		644	01300	22	EACH	LANE ARROW	
								7						7		644	01400	7	EACH	WORD ON PAVEMENT, 72"	
			5										5			SPECIAL	69050100	5	EACH	MAILBOX SUPPORT SYSTEM, SINGLE	
5													5			SPECIAL	69098800	5	TON	MISC.: #57 LIMESTONE FOR DRIVES	
																614	11000	LUMP		MAINTAINING TRAFFIC	
													3			619	16000	3	MONTH	FIELD OFFICE, TYPE A	
																623	10000	LUMP		CONSTRUCTION LAYOUT STAKES	
																624	10000	LUMP		MOBILIZATION	

CALCULATED

CHECKED

GENERAL SUMMARY

FAI-188-14.48
FAI-188-16.02
PER-188-0.00

F188001.MGS 3/17/03