MORRIS

MILLER

PID NO. 23942

SHE

OHIO DEPARTMENT OF TRANSPORTATION

KNO-62-0.00/LIC-62-18.48 KNOX/LICKING COUNTIES

MORGAN, CLAY, HARRISON, BUTLER, UNION AND WASHINGTON TOWNSHIPS

2 LANE ASPHALT CONCRETE RESURFACING AND RELATED WORK. Project Earth Disturbed Area = N/A (Maintenance Project) Estimated Contractor Earth Disturbed Area : N/A (Maintenance Project)
Notice of Intent Earth Disturbed Area :

PROJECT DESCRIPTION:



				N/A	A (MainTenai	nce Project)	•
LOCATION	COUNTY	ROUTE	SECTIONS -	PROJECT	TERMINI	NET	
LUCATION		NOOTE	350110143	BEGIN	END	LENGTH MILES	VILLAGE
	KNO	US 62	(0.00-22.18)	0.00	22.87	*22.66	MARTINSBURG, DANVILLE, GANN
2	LIC	US 62	(18.48-19.61)	18.48	20.68	2.20	UTICA
		·					

* SLM EQUATION 4.28B=4.46A DEDUCT 0.18 * SLM EQUATION 14.92B=14.95A DEDUCT 0.03

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2002 SPECIFICATIONS

THE STANDARD 2002 SPECIFICATIONS OF THE STATE OF OHIO DEPART-MENT 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 PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS INDICATED IN THE PROPOSAL.

DISTRICT DEPUT PDIRECTOR

DATE 9-16-03 DIRECTOR, DEPARTMENT OF TRANSPORTATION

DESIGN EXCEPTIONS: NONE

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

PORTION TO BE IMPROVED

BUTLER

JACKSON

FALLSBURY

LOCATION MAP

HARRISON

MONROE

COLLEGE

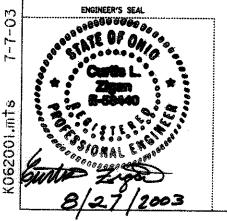
KNOX COUNTY

LICKING COUNTY

PLEASANT

MORGAN

HOWARD



DESIGN DESIGNATION	LOCATION	LOCATION 2
Current ADT (2003)	5700	4600
Design Year ADT (2015)	7300	6000
Design Hourly Volume (2015)	730	600
Directional Distribution	50%	50%
Trucks (24 Hour B&C)	6%	6%
Design Speed	55 mph	55 mph
Legal Speed	55 mph	35/55mph

STAN DRAW		STAN DRAW		SUPPL SPECIF	EMENTAL ICATIONS
BP-4.I 7-28-00 TC-65.II		TC-65.10	10-19-01	832	2-12-03
BP-4.1	7-28-00	TC-65.11	10-19-01	833	2-12-03
		TC-65.12	10-19-01	857	7-19-02
MT-97.10	4-19-02	TC-71.10	4-19-02		
MT-97.11	4-19-02	TC-73.10	01-19-01	908	4-19-02
VT-99.20M	1-30-95				1

PLAN PREPARED BY:



UTILITIES

THERE ARE NO UNDERGROUND UTILITIES SHOWN ON THIS PLAN. THE NATURE OF THE WORK REQUIRED BY THIS PROJECT SHOULD NOT AFFECT ANY KNOWN UNDERGROUND UTILITIES THAT EXIST UNDER OR ADJACENT TO THE WORK AREA. BELOW IS A LIST OF UTILITIES LOCATED WITHIN THE WORK AREA AND IT IS THE RESPONSIBILITY OF THE CON-TRACTOR TO CONTACT OWNERS AND VERIFY LOCATIONS:

GATHERCO INC.

P.O. BOX 218 ATHENS, OH. 45701

ATTN: DEAN HARRIS

PHONE: (740) 593-5016

ENERGY COOPERATIVE

LICKING RURAL ELECTRIFICATION, INC.

P.O. BOX 455

UTICA, OH. 43080-455

ATTN: STEVE WILLIAMS, ENG. SUPV. PHONE: 1-800-542-1140 EXT. 1288

AEP (OHIO POWER CO) 850 TECH CENTER DRIVE GAHANNA, OH, 43230-6605 ATTN: RICK ECKLE

SPRINT UNITED TELEPHONE 15 EAST GAMBIER STREET MT. VERNON, OH. 43050 ATTN: MIKE WALTERS PHONE: (740) 397-3715

ALLTEL OHIO, INC. 66 NORTH FOURTH ST. P.O. BOX 3005

PHONE: (614) 883-6829

NEWARK, OH. 43058-3005 ATTN: CHARLIE WADE

PHONE: (740) 349-8827

COLUMBIA GAS TRANSMISSION

8462 STATE ROUTE 179

P.O. BOX 85

LAKEVILLE, OH. 44638

ATTN: JACK ROHRBAUGH, LAND AGENT

PHONE: (419) 827-1209

FEATHERING

FEATHERING OF THE ASPHALT CONCRETE SHALL BE DONE IN ACCORDANCE WITH SCD DRAWING BP-3.1, 7-28-00

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 JACKSONSTOWN, OH 43030 PHONE: (740) 323-4400 EXT. 5241

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.

PROFILE AND ALIGNMENT

THE PROPOSED PAVEMENT RESURFACING SHALL FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT.

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 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.

MAINTENANCE OF TRAFFIC

PLACING OF THE ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE SHALL OCCUR AS CLOSE BEHIND THE PLANING OPERATION AS POSSIBLE, WHERE APPLICABLE, SUCH THAT TRAFFIC SHALL NOT BE MAINTAINED ON THE PLANED SURFACE AT THE END OF THE WORK DAY.

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	LOC.I	LOC. 2
OW-167 (NO EDGE LINES)	22	2
R-33 (DO NOT PASS)	64	2
R-34 (PASS WITH CARE)	53	
OW-128 (BEGIN ROAD CONSTRUCTION AHEAD)	50	5
OC-8 (END ROAD CONSTRUCTION)	50	5
TOTAL	239	14

PAVEMENT MARKING

STOP LINES, CROSSWALK LINES, CHANNELIZING LINES, ETC., SHOWN IN THE PLANS ARE TAKEN FROM EXISTING MARKINGS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DOCUMENT EXISTING MARKING LOCATIONS (i.e. BY USE OF VIDEO, PICTURES) AND PLACE NEW PAVEMENT MARKINGS AS NEAR AS POSSIBLE TO THE EXISTING LOCATIONS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN

THE ROADWAY SURFACE SHALL BE PLANED AS DESCRIBED BELOW: LOCATION I:

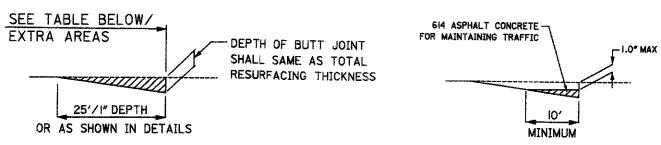
FROM SLM 10.46 TO SLM 10.68, PLANE 1.25" IN DEPTH. FROM SLM 14.53 TO SLM 18.50, PLANE 1.0" IN DEPTH. LOCATION 2:

FROM SLM 18.48 TO SLM 20.68, PLANE 2.0" IN DEPTH. THIS WORK SHALL BE AS DIRECTED BY THE ENGINEER. THE ROADWAY SHALL BE PLANED SUCH THAT POSITIVE DRAINAGE IS CREATED FROM THE CENTER LINE TO THE EDGE OF PAVEMENT IN TANGENT SECTIONS AND SHALL FOLLOW EXISTING SUPER-ELEVATIONS WHERE APPLICABLE. THIS MAY REQUIRE ADDITIONAL MILLING DEPTH DUE TO EXISTING GRADER PATCHES AND PAVEMENT REPAIR. ALL SPECIFICATIONS OF ITEM 254 SHALL APPLY.

THE QUANTITIES FOR ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN ARE SHOWN ON SHEETS 9, 10 AND 11 AND ARE CARRIED TO THE SUB-SUMMARIES FOR THE ABOVE DESCRIBED PURPOSE. 1000 TONS OF GRINDINGS FROM THE PLANING OPERATION SHALL BE DELIVERED TO THE OHIO DEPARTMENT OF TRANSPORTATION: KNOX COUNTY GARAGE LOCATED ON US 36 MT. VERNON, OHIO AND 1000 TONS SHALL BE DELIVERED TO THE MILLWOOD OUTPOST ON US 62 IN MILLWOOD. THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN.

BUTT JOINT

A BUTT JOINT WILL BE REQUIRED AT LOCATIONS SPECIFIED BELOW AND AT EXTRA AREAS WITH WEARING COURSE REMOVED. AFTER THE JOINT IS CONSTRUCTED, THE DROP OFF CREATED SHALL BE MINIMIZED BY IMMEDIATELY PLACING THE PROPOSED 448 INTERMEDIATE COURSE TO WITHIN 1.0" OF EXISTING ROADWAY SURFACE OR BY PLACING WEDGE AS SHOWN. BUTT JOINTS SHALL BE AS PER SCD BP-3.1, 7-28-00.



LOCATION	ROUTE	DESCRIPTION	SLM	614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC
1	US 62	BRIDGE DECK	10.46	CU.YD.
	US 62	BRIDGE APPROACH	14.46	1.2
	US 62	BRIDGE DECK	17.54	1.2
	US 62	BRIDGE APPROACH	18.01	2.2
	US 62	BRIDGE DECK	19.04	1.2
	US 62	BRIDGE APPROACH	22.14	1.2
	·	TOTAL		8.2
2	US 62	BRIDGE APPROACH	18.48	1.4

CONVERSION OF METRIC DRAWINGS

THE METRIC STANDARD DRAWINGS REFERENCED IN THIS PLAN SHALL BE CONVERTED TO ENGLISH UNITS USING THE SI (METRIC) OF THE 2002 CONSTRUCTION AND MATERIALS SPECIFICATIONS. TO ENGLISH CONVERSION FACTORS PROVIDED IN SECTION 109.02 IEEE/ASTM SI 10 SHALL BE UTILIZED FOR ANY ADDITIONAL CONVERSION FACTORS REQUIRED. CONVERSIONS SHALL BE APPROPRIATELY PRECISE AND SHALL REFLECT STANDARD INDUSTRY ENGLISH VALUES WHERE SUITABLE.

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.

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. If the asphalt apron cannot be paved over(for example, broken into small pieces) as determined by the Engineer, it shall be removed before being paved back 4' into the driveway. Except as noted under Item 202 Removal Misc.: Residence and Commercial Drives, any prime or tack coat, materials, labor, equipment tools and incidentals necessary to complete the drives shall be included in the unit price bid for Item 448 Asphalt Concrete Surface Course, Type I, PG 64-22

ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22 LOCATION 1 - 71CU.YD. LOCATION 2 - 6 CU.YD.

QUANTITY CARRIED TO GENERAL SUMMARY

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ITEM 202 REMOVAL MISC .: RESIDENCE AND COMMERCIAL DRIVES

This item shall cover the cost of grading, excavating, milling, material, labor, equipment, tools, and incidentals 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 Location 1 - 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 Location I - 8 Ton

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 1, PG 64-22 AND ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22

ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG 64-22 LOCATION 1 - 44 CU.YD. LOCATION 2 - 2 CU.YD.

ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22 LOCATION 1 - 44 CU.YD. LOCATION 2 - 2 CU.YD.

QUANTITY CARRIED TO GENERAL SUMMARY

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 KNOX COUNTY MANAGER SHALL BE CONTACTED FOR INSTRUCTIONS ON WHERE TO DELIVER THE RAISED PAVEMENT MARKERS.

ITEM 202 RAISED PAVEMENT MARKERS, REMOVED FOR STORAGE: LOCATION 1 - 1252 EACH LOCATION 2 - 71 EACH

SPOT LEVELING

THE FOLLOWING ESTIMATED QUANTITY IS TO BE USED AS DIRECTED BY THE ENGINEER TO RESTORE ROADWAY CROWN/PROFILE WHERE NO PLANING OCCURS. PLACING OF SPOT LEVELING MATERIAL SHALL TAKE PLACE PRIOR TO PLACING OF THE 1.0" INTERMEDIATE COURSE.

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

0

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. REPAIRS SHALL TAKE PLACE PRIOR TO ANY PAVEMENT PLANING OPERATION. THERE MAY BE A NEED TO MAKE FURTHER REPAIRS IF MORE FAILURES ARE PRESENT AFTER PLANING AND/OR PAVING OF THE INTERMEDIATE COURSE. THE INTENT OF THIS OPERATION IS TO REPAIR THOSE AREAS OF PAVEMENT WHICH HAVE COMPLETELY FAILED (PUMPING OF SUBBASE MATERIAL) AND NOT TO CORRECT SURFACE IRREGULARITIES. 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, TRAFFIC CONTROL, 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 2000 SQ.YD. LOCATION I

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.

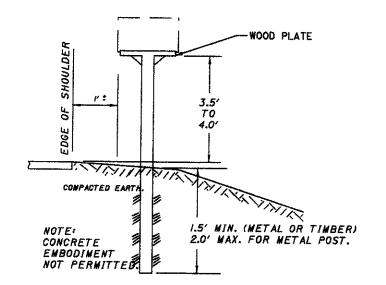
ITEM 407 TACK COAT, MISC.: FOR LONGITUDINAL JOINT LOCATION 1 - 119645 FT.

LOCATION 2 - 11616 FT.

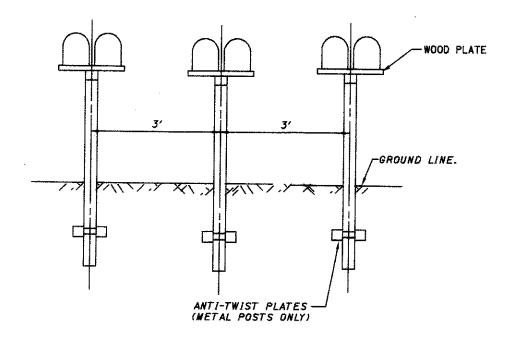
ITEM 408 PRIME COAT, AS PER PLAN

THE CONTRACTOR SHALL APPLY ONE COAT OF MC-70 (AS PER SECTION 702) AT A RATE OF 0.40 GALLON PER SQUARE YARD TO THE COMPLETED AGGREGATE SHOULDER (ITEM 617) AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A SHIELD TO PREVENT THE SPRAYING OR DRIFTING OF LIQUID BITUMINOUS MATERIAL ONTO THE EDGE OF PAVEMENT OR EDGE LINE. THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO 107.10 OF THE SPECIFICATIONS. THE FOLLOWING QUANTITY OF PRIME COAT, AS PER PLAN SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT TO PERFORM THE ABOVE MENTIONED WORK.

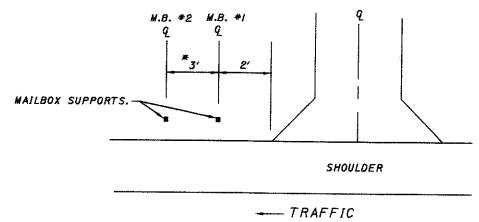
ITEM 408 PRIME COAT, AS PER PLAN LOCATION I - 157065' X 4' / 9 X 0.40 = 27923 GAL. LOCATION 2 - 11616' X 4' / 9 X 0.40 = 2065 GAL. KNO LIC-



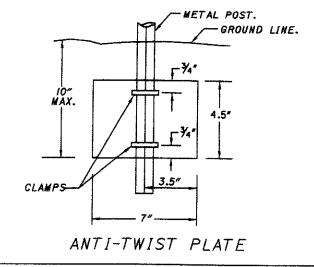
TYPICAL MAILBOX LOCATION AND MOUNTING HEIGHT



GROUP MAILBOX INSTALLATION



* ADD 3' FOR EACH ADDITIONAL MAILBOX.



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" × 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

QUANTITY

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR THE ABOVE PURPOSE

SPECIAL MAILBOX SUPPORT SYSTEM SINGLE LOCATION 1- 4 EACH SPECIAL MAILBOX SUPPORT SYSTEM DOUBLE LOCATION 1-2 EACH

8-6-03

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<u>6</u> 33,

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 SHEET 25

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

0.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.

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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):

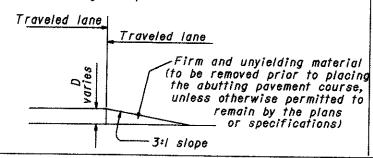
a. Lengths greater than 60 feet - utilize appropriate treatment from Condition I.

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.



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
≤11/2	Erect OW-I7I and OWP-I7I signs.
>11/2-3	 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. Traveled lane Lane closed Traveled lane Lane closed *⊏Drums* or Drums or 1.5' Recommended Barrier Barrier Minimum 1.5' Recommended Minimum

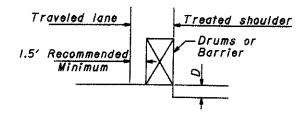
CONDITION II DROPOFFS WITHIN GRADED SHOULDER AREA

I. 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	 If edgelines are present, no treatment necessary OR 2) Erect OW-I7I and OWP-I7I signs.
<i>≯'/₂-5</i>	 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 wid†h requirements can be met, maintain lanes utilizing drums as shown below.
>5-24	 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

I. This treatment may not be used within a bituminous shoulder where a hot longitudinal joint per 401.15 is required.

2. OW-/5/ signs required.



KNO-62-0.00 LIC-62-18.48

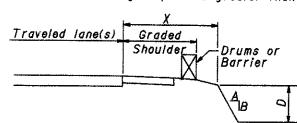
CONDITION III

DROPOFFS BEYOND GRADED SHOULDER OR BACK OF CURB

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

CHART A

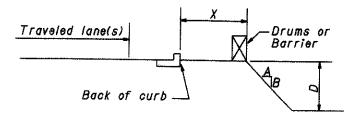
- USE FOR: I. Uncurbed Facilities.
 - 2. Curbed Facilities, where:
 - a. Curbs are less than 6" in height.
 - b. Curbs are 6" or greater in height and the legal speed is greater than 40 mph.



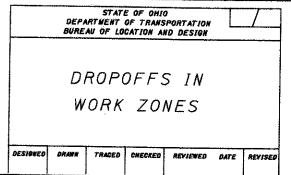
Χ	D	A/B	Treatment	Required
(Ft.)	(In.)		Day	Night
0-4	Any	Any	(a)	(a)
4-30	Any	3:1 or Flatter	None	None
4-12	<u> </u>	Steeper than 3:1	None	None
4-12		Steeper than 3:/	Drums	Drums
4-12	<i>>12</i>	Steeper than 3:/	Drums	Barrier
<u>>12-20</u>	<u> </u>	Steeper than 3:/	None	None
>/2-20	<i>>12-</i> <u>\</u> 24	Steeper than 3:/	Drums	Drums
>12-20	>24	Steeper than 3:/	Drums	Barrier
20-30	₹24	Steeper than 3:/	None	Drums
20-30	>24	Steeper than 3:/	Drums	Barrier
>30	Any	Any	None	None

CHART R

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

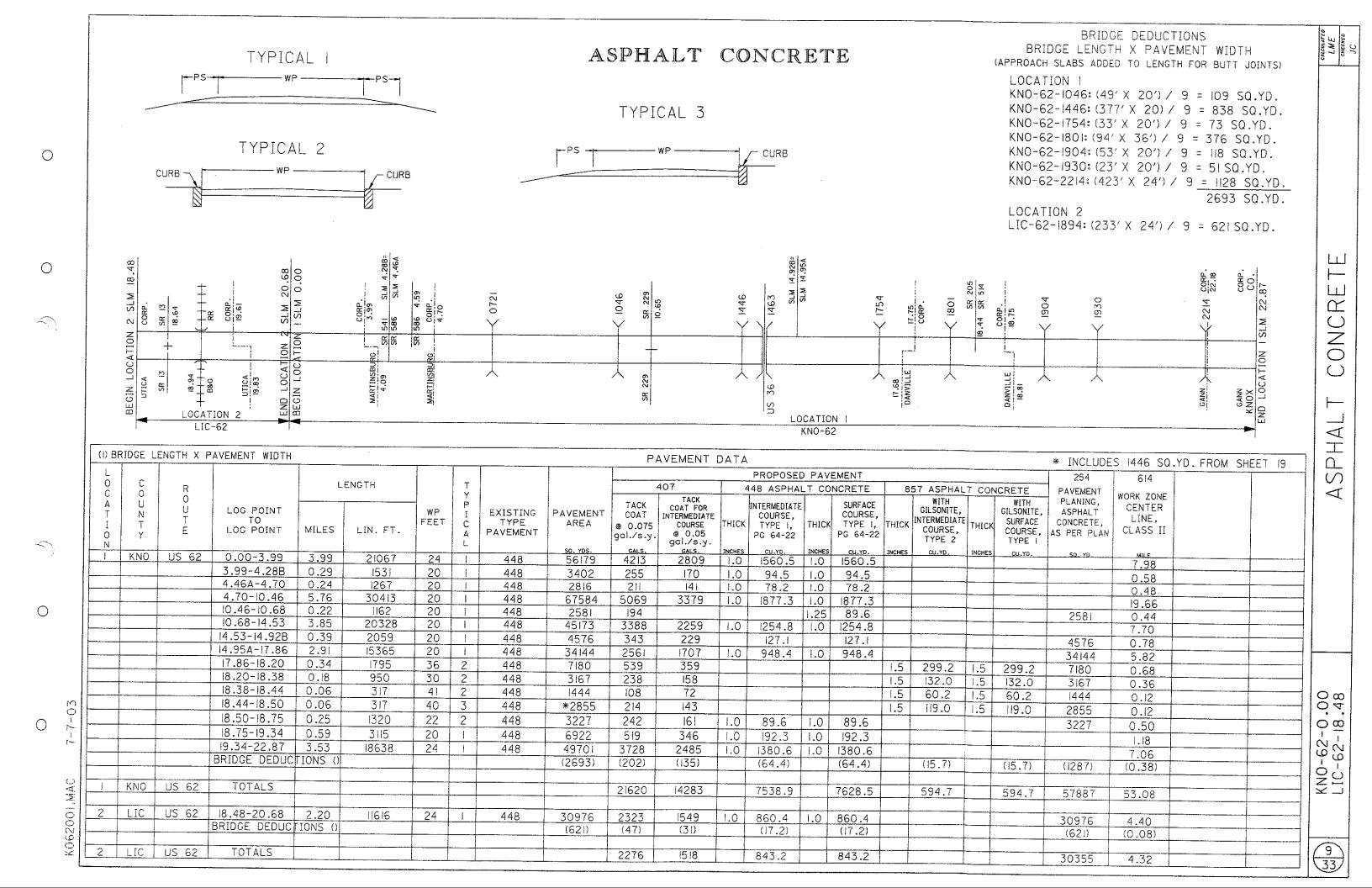


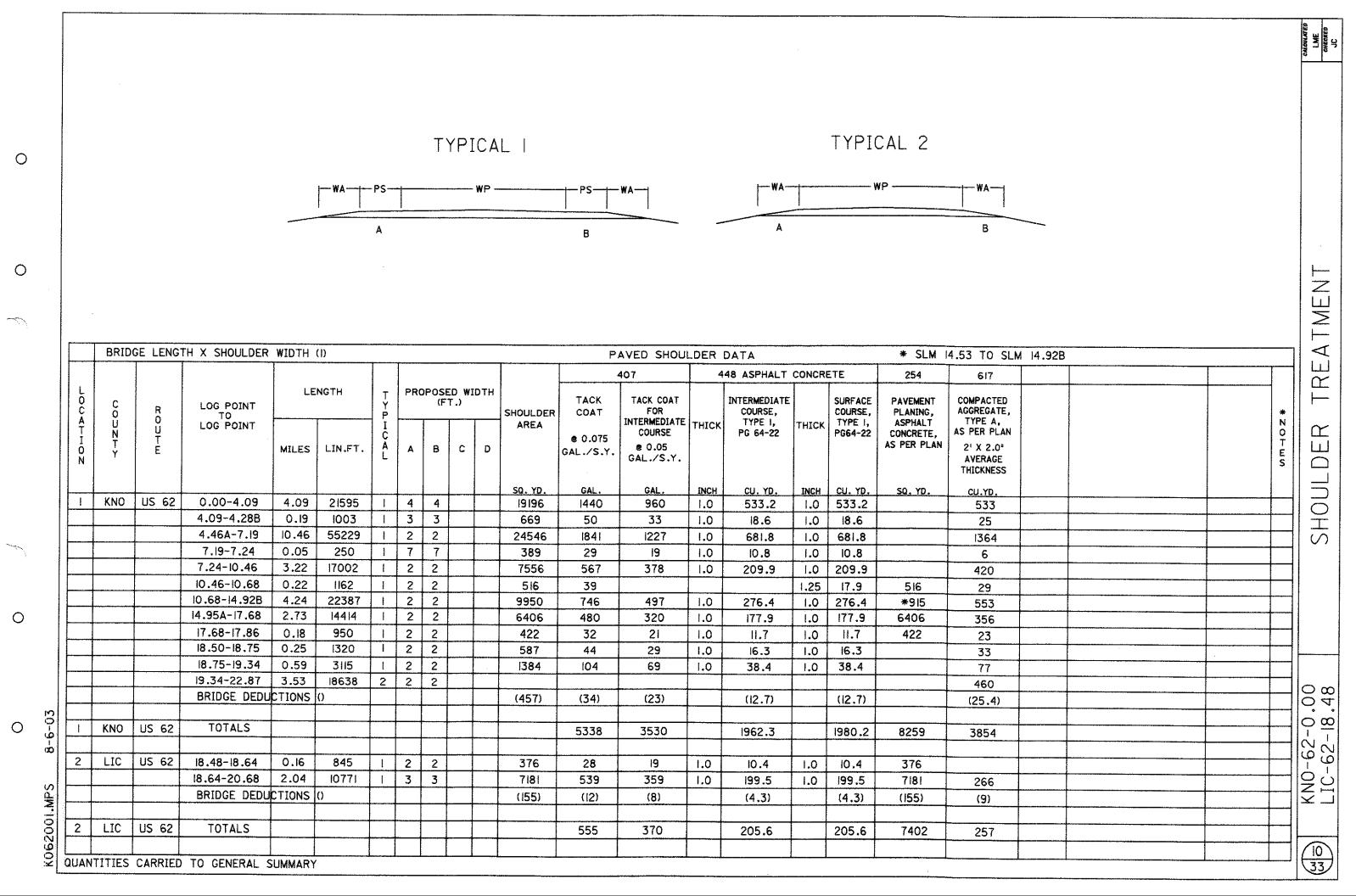
X	D	A/B	Treatment	Required		
(Ft.)	7.) (In.)	~ ~ D	Day	Night		
<u> </u>	<12	Any	None	Drums		
0-/0	>12	Any	Drums	Drums		
210	Any	Any	None	None		



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	RT	CLUTTER RD	45	21	91	280	21				2.0	15.6					
	LT	WHITE OAK	35	14	48	121	9				2.0	6.7	1				
	LT	HOSS RD	53	22	77	292	22				2.0	16.2					
	LT	HOSS RD	27	23	64	131	10				2.0	7.3					
	LT	ARRINGTON RD	65	18	79	350	26				2.0	19.4					
	RT	WEST ST	20	15	33	53	4				2.0	2.9	53	W. T. W. W. T. W. W. T. W. W. T. W. W. T. W. W. T. W. W. T. W. W. T. W. W. T. W. W. T. W. W. T. W. W. T. W. W. T. W. W. T. W. W. T. W. T. W. T. W. T. W. T. W.			
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	T LT	ALLEY	10	10	20	17	+				2.0	2.8 0.9	51 17				
	LT	SR 586	31	24	54	134	10				2.0	7.4	134				
	RT	MECHANIC ST	22	10	29	48	4				2.0	2.7	48	<u> </u>			
	RT	NORTH ST	21	12	28	47	4					· · · · · · · · · · · · · · · · · · ·					
	LT	GROVE CHURCH RD (2)	43	21		50	4				2.0	2.8					
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			LT	BLACK RD	40	28	91	264	20			2.		14.7	13				-
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			LT	MAIN ST	40	23	85	240	18			2.0		16.4 13.3					
			RT	HUNTER RD	40	19	80	220	17			2.0		12.2					+
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LOCATION |

KNO-62-1046: BUTT JOINT AT BRIDGE DECK

KNO-62-1446: BUTT JOINT AT APPROACH SLABS

KNO-62-1754: BUTT JOINT AT BRIDGE DECK

KNO-62-1801: BUTT JOINT AT APPROACH SLABS

KNO-62-1904: BUTT JOINT AT BRIDGE DECK

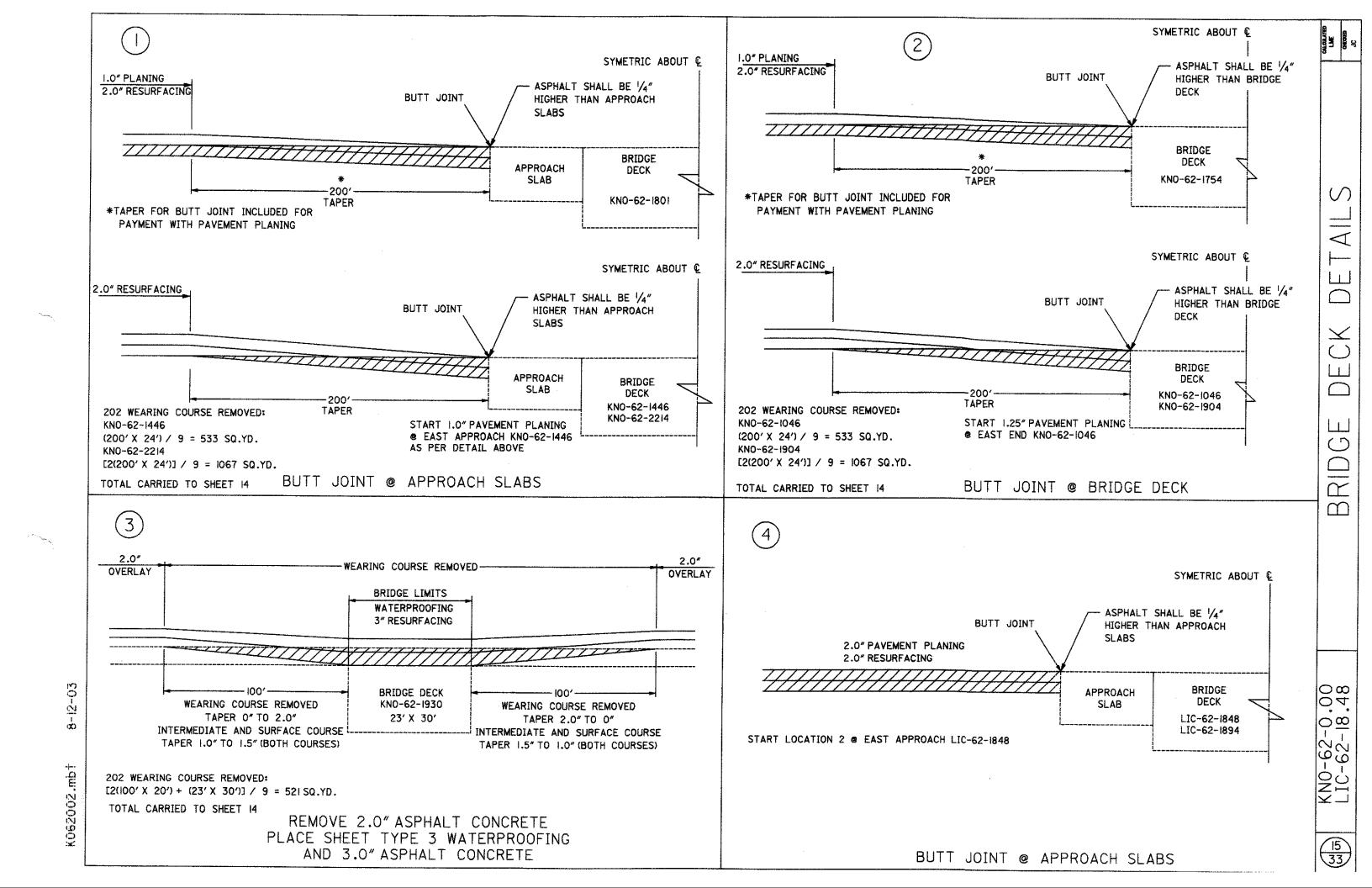
KNO-62-1930: REMOVE 2.0" ASPHALT, PLACE WATERPROOFING AND 3.0" ASPHALT

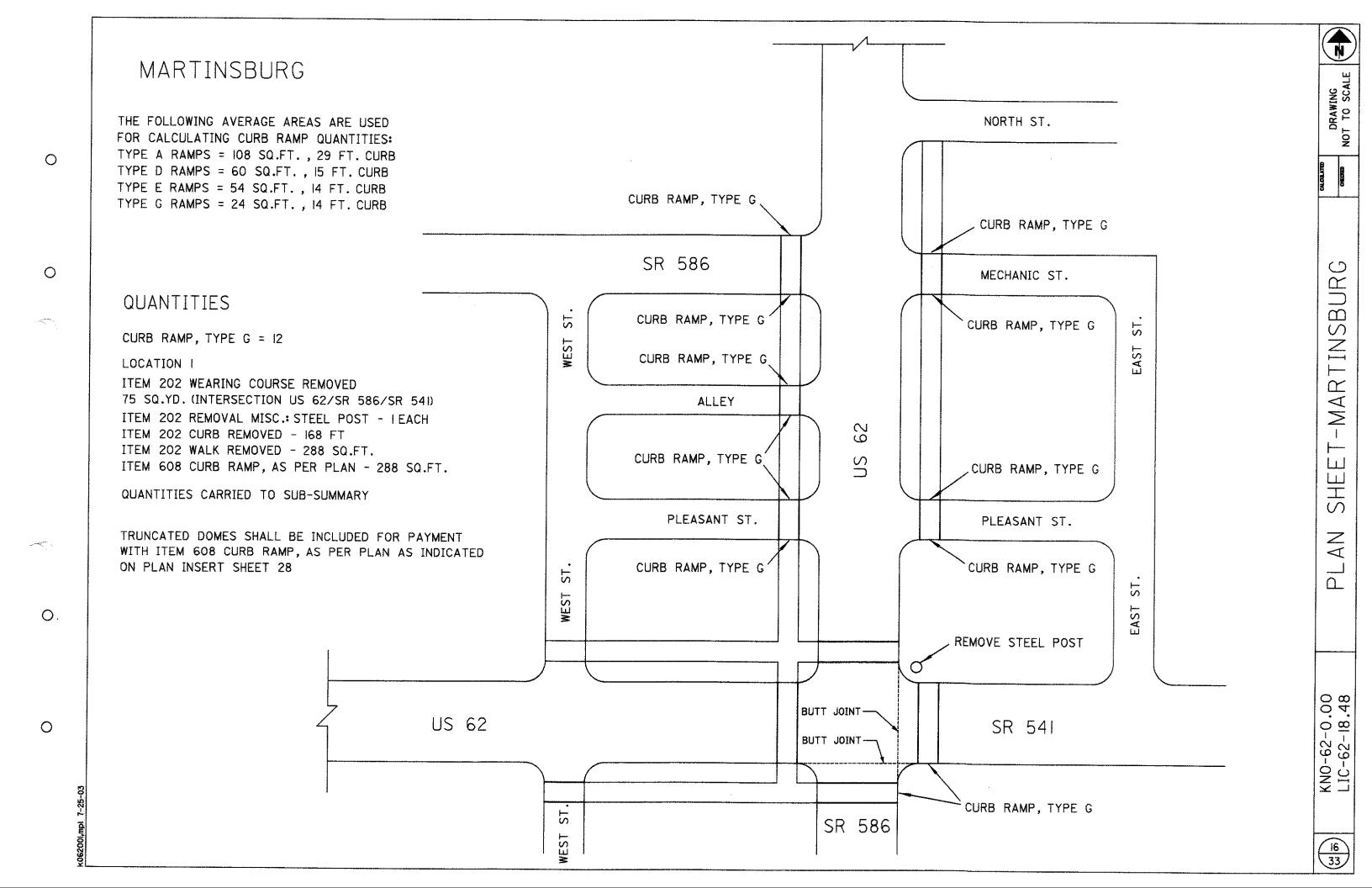
KNO-62-2214: BUTT JOINT AT APPROACH SLABS

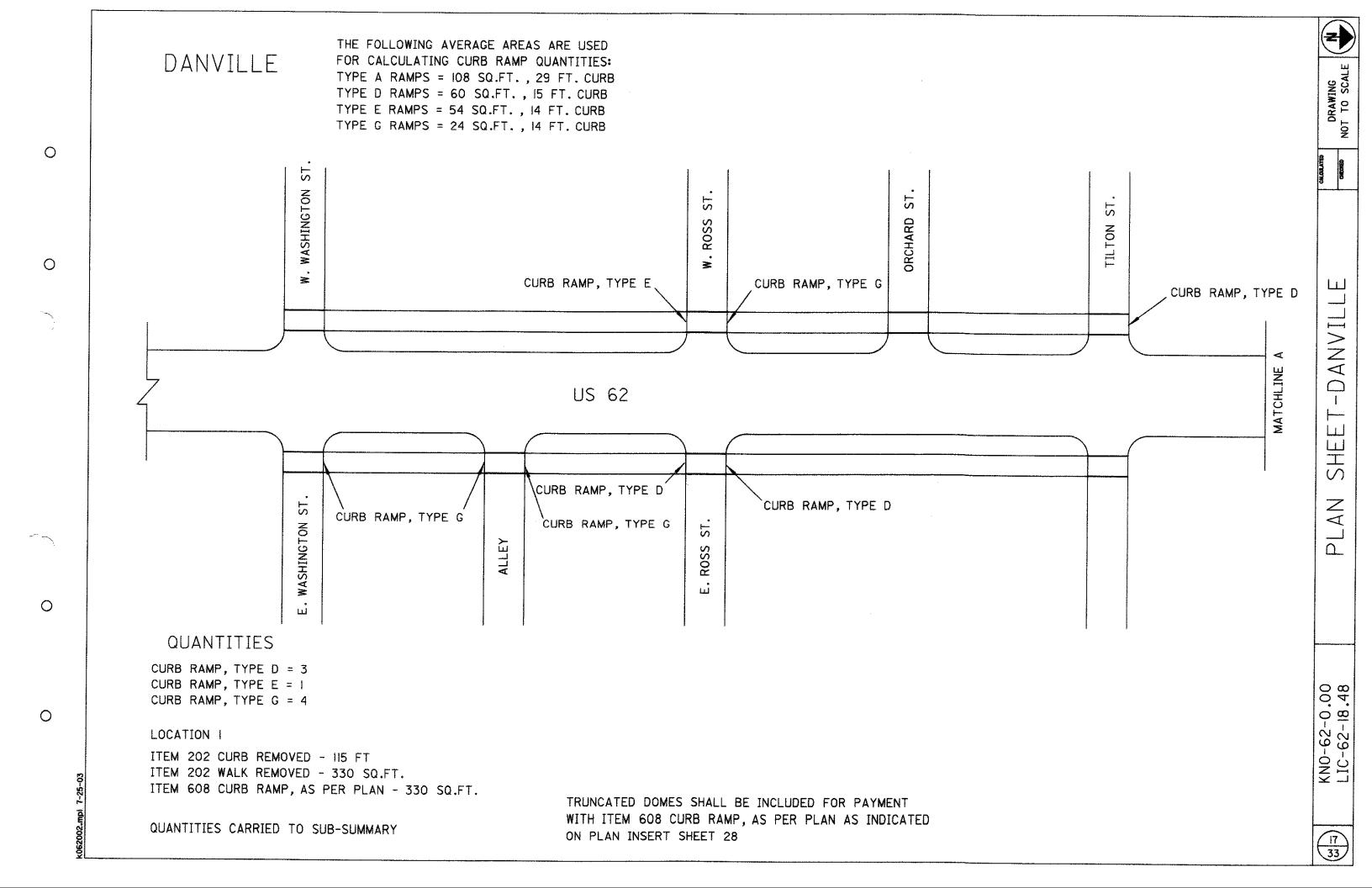
LOCATION 2

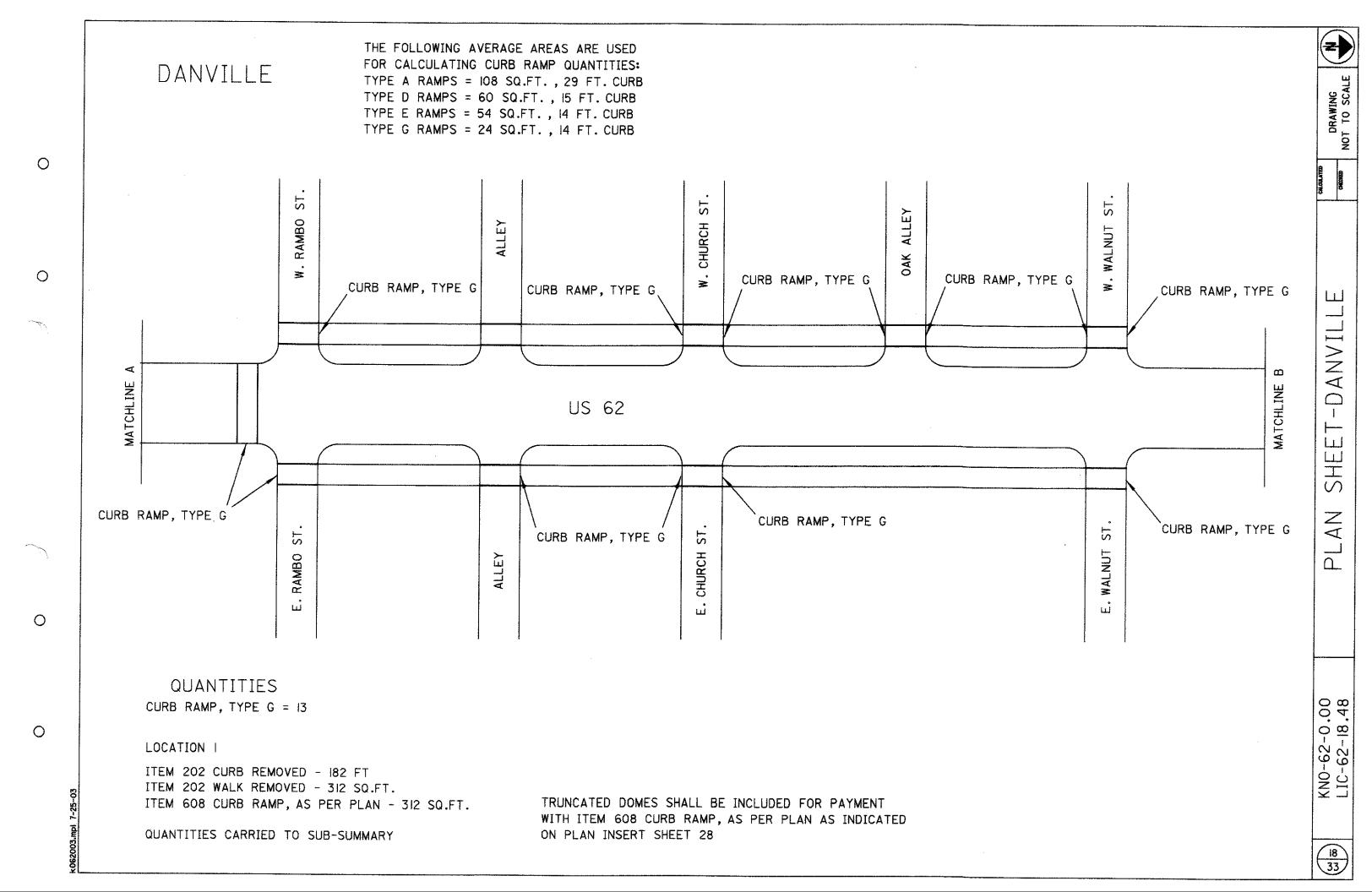
LIC-62-1894: BUTT JOINT AT APPROACH SLABS

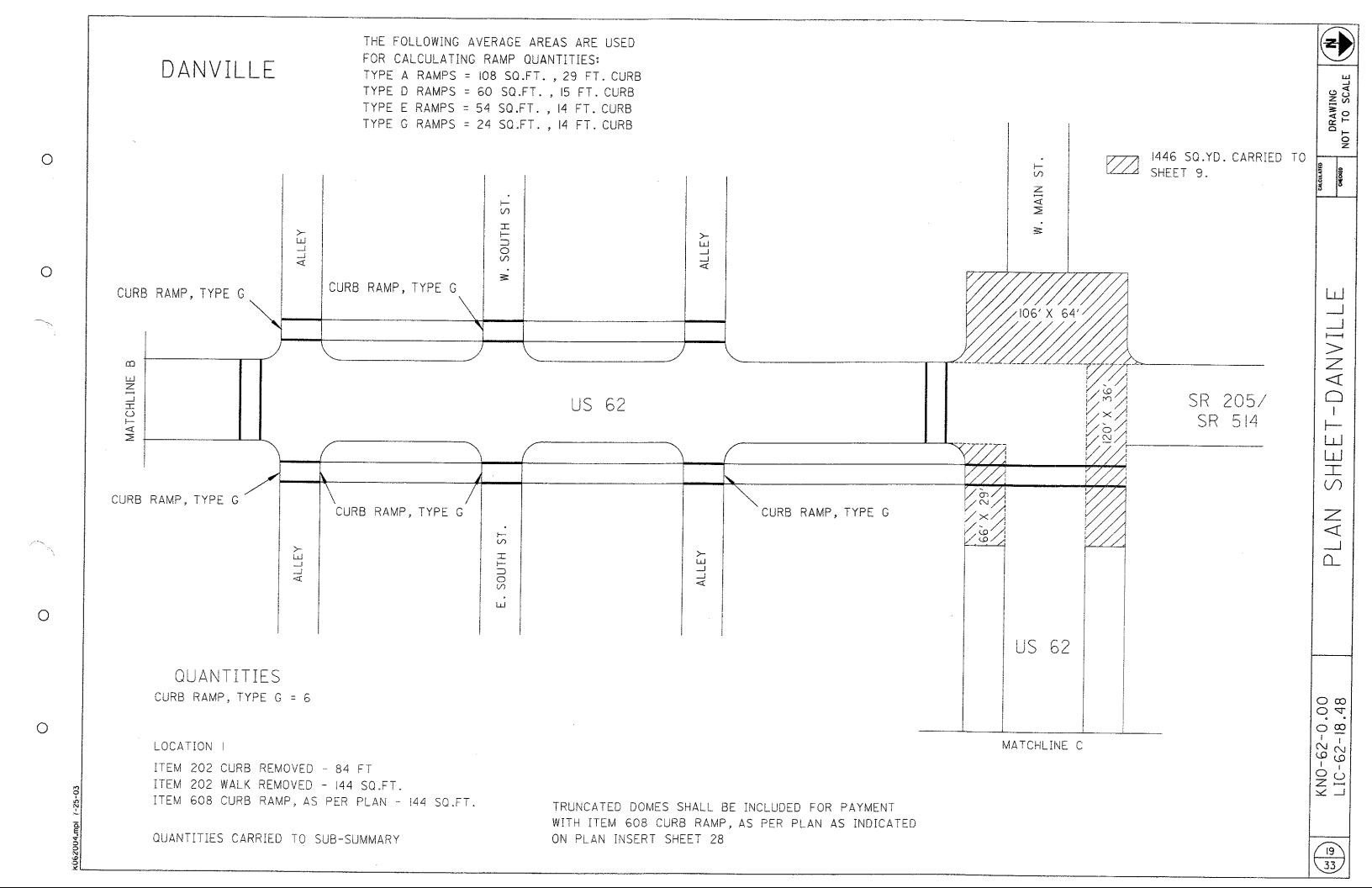
	* INCLI	UDED FO	R PAY	MENT V	VITH PAV	EMENT PLANING	BRIC	GE DECK DA	TA					
					202			407		448 ASPHALT	CONC	RETE		
OC A T	COUNTY, ROUTE, BRIDGE NO.	LENGTH (BRIDGE LIMITS)	WIDTH	BRIDGE DECK	WEARING COURSE REMOVED		TACK COAT	TACK COAT FOR INTERMEDIATE COURSE		INTERMEDIATE COURSE,		SURFACE COURSE,	512 TYPE 3	
Ö	BRIDGE NO.				DEPTH VAR.	BRIDGE DETAILS ON SHEET 15	@ 0.075 GAL./S.Y.	@ 0.05 GAL./S.Y.	THICK	TYPE I, PG 64-22	THICK	TYPE I, PG 64-22	WATERPROOFING	
-	KNO 60 1046				SQ.YDS.		GAL.	GAL.	INCH		INCH	CU.YD.	SQ.YDS.	
	KN0-62-1046	49	30	163	533	DETAIL (2)		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
	KN0-62-1446 KN0-62-1754	327 33	34	1235	533	DETAIL ()								
	KN0-62-1754	54	30 36	110	*	DETAIL ②							,	
	KNO-62-1904	53	29	216 171	*	DETAIL ()						···		
	KNO-62-1904	23	30		*	DETAIL ②								
	KNO-62-1930	373	32	77 1326	521	DETAIL 3		4	1.5	3.2	1.5	3.2	80	
	KNO 02 2214	3/3	JL	1326	1067	DETAIL ()								
T	TOTALS				2654			4		3.2		3.2	80	
								-T		3.2		٦٠٢	80	
2	LIC-62-1894	183	28	569	*	DETAIL 4								
							 							
						, , , , , , , , , , , , , , , , , , ,	†							
							† -							
						· · · · · · · · · · · · · · · · · · ·								
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KNO-62-0.00 LIC-62-18.48

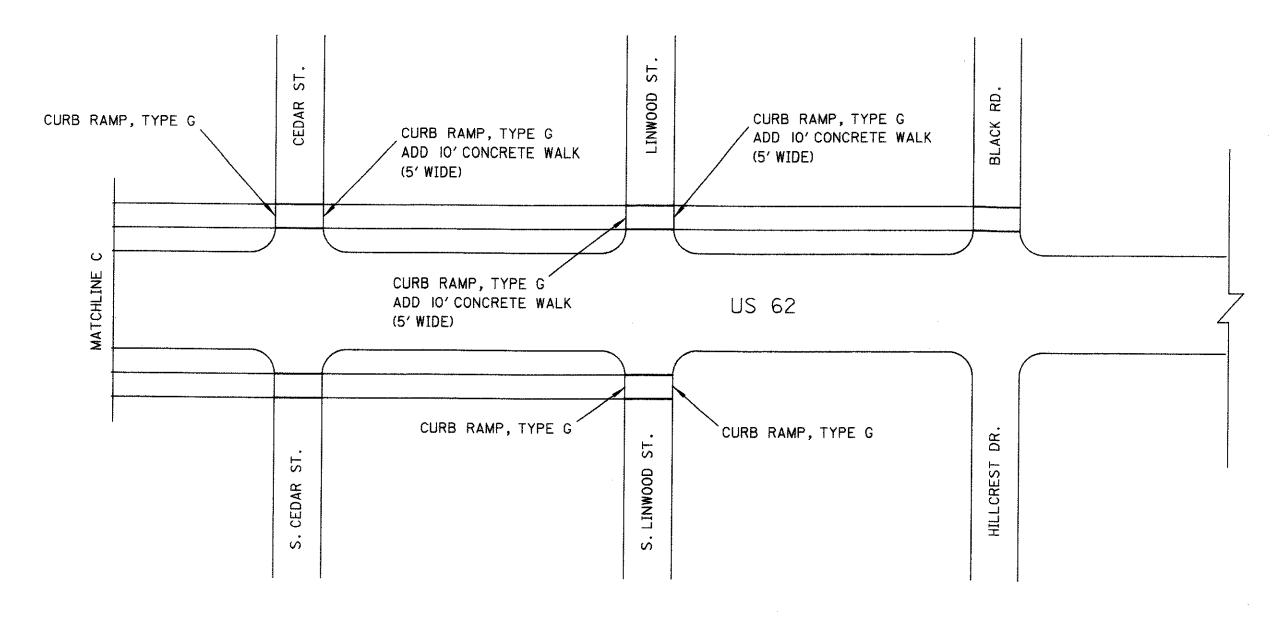
THE FOLLOWING AVERAGE AREAS ARE USED FOR CALCULATING RAMP QUANTITIES:

TYPE A RAMPS = 108 SQ.FT., 29 FT. CURB

TYPE D RAMPS = 60 SQ.FT., 15 FT. CURB

TYPE E RAMPS = 54 SQ.FT., 14 FT. CURB

TYPE G RAMPS = 24 SQ.FT., 14 FT. CURB



QUANTITIES CURB RAMP, TYPE G = 6

DANVILLE

NOTE: NO CURB IN THIS SECTION

LOCATION I

ITEM 202 WALK REMOVED - 144 SQ.FT. ITEM 608 CURB RAMP, AS PER PLAN - 144 SQ.FT. ITEM 608 4" CONCRETE WALK - 150 SQ.FT.

QUANTITIES CARRIED TO SUB-SUMMARY

TRUNCATED DOMES SHALL BE INCLUDED FOR PAYMENT WITH ITEM 608 CURB RAMP, AS PER PLAN AS INDICATED ON PLAN INSERT SHEET 28

2001 TEI 8-14-0

ITEM 642 FAST DRY CENTER LINE SUB-SUMMARY

* QUANTITIES INCLUDE CENTER LINE AROUND OUTSIDE OF PAINTED ISLAND

LOC	CC	R	S.L.	M	CEN QUA	TER LINE ANTITIES	PAR	TICIPA	TION	ГҮРЕ	TOTAL	
A T I O N) N T Y	DUTE	FROM	TO	TOTAL MILES	EQUIVALENT SOLID LINE	IRG	FG	RSG	NON FED STATE	CENTER LINE MILES	REMARKS
ì	KNO	US 62	0.00	4.28B	4.28	3.55					4.28	
			4.46A	14.92B	10.46	17.05					10.46	
			14.95A	22.87	7.92	11.09	"	******			7.92	
447723	KNO	US 62	TOTALS CARRIED) TO SUB-SUMN	ARY						22.66	
2	LIC	US 62	18.48	20.68	2.20	2.28					2.20	

TOTALS CARRIED TO SUB-SUMMARY

NOTE: KNO-62-18.44 TO 18.50 EDGE LINE LEFT SIDE ONLY

ITEM 642 FAST DRY EDGE LINE SUB-SUMMARY

LOC	CO	R	S.I	M.	WHITE	EDGE LIN	IE QU.	YELLOW	EDGE LI	NE QU.	PART	TICIP	ATION	N TYPE	l	
A T I O N	Ŭ N T Y	Ŭ T E	FROM	то	TOTAL	HIGHWAY	RAMP	TOTAL MILES	HIGHWAY	RAMP	IRG	FG	RSG	NON FED STATE	LINE TOTAL MILES	REMARKS
1	KNO	US 62	0.00 4.46A 14.95A 18.44	4.28B 4.92B 7.86 22.87	8.56 20.92 5.82 8.80	8.56 20.92 5.82 8.80									8.56 20.92 5.82 8.80	
	KNO	US 62	TOTALS	CARRIED	TO SUB-SL	MMARY									44,10	
2	LIC	US 62	18.48	20.68	4.40	4.40									4.40	

TOTALS CARRIED TO SUB-SUMMARY



ITEM 644 AUXILIARY PAVEMENT MARKING SUB-SUMMARY

CALCULATED
LIME
CHECKED
JC

Ç	R				TRAN:	24" ISVERSE	STOP		KIPAVEN	MENT	SCHO SYMB	BOL I	Į.	ANE AF			RAILROAD	8"	TSI AND	24"	
Ŭ Ņ	ROUT	DESCRIPTION	SLM	SIDE	E	INES YELLOW	LINE 24"	LINES WHITE			72"		COMBIN	7	T	г	RAILROAD SYMBOL MARKING	CHANNEL LINE	MARKING	DOTTEI LINE	REMARKS
Ý	É					FEET	FEET	FEET	+ +		+	├ ┈──	EACH	ļ					(YELLOW)		
KNO	US 62			RT			8														PLACE AS DIRECTED
		MORGAN CENTER RD		LT		J	10						i								PLACE AS DIRECTED
·		CLUTTER RD		LT			25														PLACE 23' FROM US 62 C
		CLUTTER RD		RT		Ţ	22						i								PLACE 21' FROM US 62 C
		WHITE OAK		LT			12						<u></u>								PLACE 25' FROM US 62 C
		HOSS RD		LT		Ţ	20														PLACE 26' FROM US 62 C
		HOSS RD		LT			20							1							PLACE 26' FROM US 62 Q
······································		ARRINGTON RD		LT			20						i								PLACE 27' FROM US 62 C
		WEST ST		RT			7	30	T				*************************************					···			PLACE AS DIRECTED
		WEST ST		LT			10	46	T									- ".			PLACE AS DIRECTED
		ON US 62 AT SR 586/SR 541		Œ			14	82													PLACE AS DIRECTED
		ON US 62 AFTER SR 586/541	1	Ę.			12	44					·								PLACE AS DIRECTED
		PLEASANT ST		RT			9	28													PLACE AS DIRECTED
		PLEASANT ST	1	LT			10	28								1					PLACE AS DIRECTED
		ALLEY		LT			10	20													PLACE AS DIRECTED
		SR 586	1	LT			17	48			\Box					1 1					PLACE AS DIRECTED
		MECHANIC ST	(RT			6	24	++							+					PLACE AS DIRECTED
		NORTH ST		RT			7		1							+					PLACE AS DIRECTED
		GROVE CHURCH RD		LT			21	<u> </u>	 												PLACE AS DIRECTED
		DEAL RD	(RT			10		+												PLACE 27' FROM US 62 Q
·		DEAL RD	<u> </u>	LT			12		+	$\overline{}$						+					PLACE 38' FROM US 62 Q
		BURTNETT RD		LT		$\overline{}$	12	-	+ +	-+						+					**************************************
		CHADWICK RD	 	T LT			12		++							╅					PLACE AS DIRECTED
		HOPEWELL RD		LT			12		++		$\neg \uparrow$	-				+ +					PLACE AS DIRECTED PLACE 21' FROM US 62 C
		DENNIS CHURCH RD		RT			12		 							+					PLACE 24' FROM US 62 C
		BILLMAN RD		RT			18		+ +		$\neg \uparrow$										PLACE 25' FROM US 62 C
		CHADWICK RD		LT	1		10	<u> </u>	+ +		\neg	-			_	+					PLACE 25' FROM US 62 C
		SR 229	, 	RT			20			$\overline{}$		-				1					PLACE 21' FROM US 62 Q
		SR 229		LT			21		†							1 1					PLACE 19' FROM US 62 Q
		LEPLEY RD	,	RT			13			一十		$\overline{}$				++					PLACE 23' FROM US 62 C
		LEPLEY RD	,	LT			15		1	-+						+ +					
		CAVES RD	, 	LT			21			-	_				-	+ +					PLACE 21' FROM US 62 ©
·····		AUSTIN RD		RT	 		12			-+		-				╁┈┼					PLACE 24' FROM US 62 C
		HAZEL DELL RD		RT	+		22					-+			_	+ +					PLACE AS DIRECTED
		MILLWOOD RD		LT		<u> </u>	20		+	\dashv		-+				+					PLACE 25' FROM US 62 Q
		CAVALLO RD	-	RT	 		23		++-						_	+ +					PLACE 29' FROM US 62 Q
		ON US 62 AT CONNECTOR RD.		r	 		23		+	+	-					++		110			PLACE AS DIRECTED
		BOESHART RD		LT	+		20				-+	-				+		110			PLACE AS DIRECTED
		BOESHART RD		RT	+				-												PLACE 22' FROM US 62 C
		FLAT RUN RD			 		14		+-+	-+						-					PLACE 23' FROM US 62 €
		WASHINGTON ST		RT	+		16		\vdash	\longrightarrow						+		L			PLACE AS DIRECTED
				LT		<i></i>	0 0	48	 							-					PLACE AS DIRECTED
	[WASHINGTON ST	,	RT	1 1		10	54	1 1	- 1	1		1		j	1 1			F		PLACE AS DIRECTED

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ITEM 644 AUXILIARY PAVEMENT MARKING SUB-SUMMARY

	<u> </u>	T	T						64	4 THE	RMO	PLAS	TIC		,,,,,,								
L O C A	COD	ROU	DESCRIPTION	SIM	SIDE	TRAN	24" SVERSE NES	STOP LINE	12" CROSSWALI LINES	WORD PAVEN ONLY	/ENT	SCHOOL SYMBOL MARKING	. 1		ARRO		RAI	LROAD MBOI	8" CHANNEI	ISLAND MARKING	24"		
ļ	N T Y	Ë	5250N2. 120N	SLM	SIDE	WHITE	YELLOW	24"	WHITE	72"	96" 7	72" 96	" LT/	TH RT/	TH LT	RT	1177			(TELLUW)	WH YEL	\\ <u>-</u>	
l	KNO	115 62	TOTALS FROM PREVIOUS SHEET	1		FEEI	FEET	FEET	FEET	EACHE	ACH E	ACH EAC	H EAC	H EAC	H EA	- EA	EA. E	ACH	FEET	SQ. FT.	FT. FT.		
		00 02	ALLEY		RT			595	452	+	!								110				
			W ROSS ST		LT	 		8 7	24	-												PLACE AS DIRECTED	
	1		E ROSS ST		RT	 		······································	28	+												PLACE AS DIRECTED	
			ORCHARD ST					<u> 17</u>	76	+						1 1						PLACE AS DIRECTED	
			TILTON ST		LT			15	64 64	1						+			***************************************			PLACE AS DIRECTED	
			ON US 62 @ SLM 18.12±		 			16	64	+		-, -				┼┼						PLACE AS DIRECTED	
			ON US 62 BEFORE RAMBO ST						72	+-+	-					1						PLACE AS DIRECTED	
			W RAMBO ST		+			17	70	+-+			_			+	\perp					PLACE AS DIRECTED	
			E RAMBO ST	 	RT			12	48	+						+-+	-			ļ		PLACE AS DIRECTED	
			ON US 62 AFTER RAMBO ST	-	L()			14	60		-			_		+	\perp					PLACE AS DIRECTED	
_			ON US 62 @ SLM 18.24±					· · · · · · · · · · · · · · · · · · ·	1 00			_				+			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			PLACE AS DIRECTED	
			ALLEY		LT			7	30	+		'- 				-						PLACE AS DIRECTED	
			ALLEY		RT			6	28			-				+						PLACE AS DIRECTED	
			W CHURCH ST		LT			10	46	╆			-			 	_					PLACE AS DIRECTED	
			E CHURCH ST		RT			10	46	-		+-				+				· · · · · · · · · · · · · · · · · · ·		PLACE AS DIRECTED	
٦	·		ALLEY		LT			6	30	-			-	_		-						PLACE AS DIRECTED	
			W WALNUT ST		LT			11		 -		_				ـــــــــــــــــــــــــــــــــــــ						PLACE AS DIRECTED	
7			E WALNUT ST		RT RT			11	44 50				-			-						PLACE AS DIRECTED	
7			ALLEY		LT			10				<u> </u>										PLACE AS DIRECTED	
7			ALLEY					12	30	-			_			 						PLACE AS DIRECTED	
+			W SOUTH ST		RT			12	30	<u> </u>												PLACE AS DIRECTED	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
+			E SOUTH ST		LT			11	48							ļļ						PLACE AS DIRECTED	
1			ALLEY		RT LT			10 8	48 30													PLACE AS DIRECTED	
1			ALLEY		RT			8	30							ļļ.	_					PLACE AS DIRECTED	
+			ON US 62 BEFORE W. MAIN ST		- 71			-	94				 		_		_					PLACE AS DIRECTED	
1			W. MAIN ST		LT			15	60		-		 			ļļ						PLACE AS DIRECTED	
1			SR 205		LT			16	94			_				-						PLACE AS DIRECTED	
1			ON US 62 AFTER SR 205		<u> </u>			10	218				-			 						PLACE AS DIRECTED	
1			CEDAR ST		LT			12	48				-		_	 						PLACE AS DIRECTED	
1			S CEDAR ST		RT			16	66				+		<u> </u>							PLACE AS DIRECTED	
1			LINWOOD ST		IT I			10	40				-									PLACE AS DIRECTED	
7			S LINWOOD ST		RT			10	58													PLACE AS DIRECTED	
7			BLACK RD		LT			22	20				 				_					PLACE AS DIRECTED	
1			HILLCREST DR		RT			10														PLACE AS DIRECTED	
1			BODY RD		LT			19			-	+	 	+			4					PLACE 20' FROM US 62 ©	
1			BUCKEYE RD		RT RT			28	1					-								PLACE 23' FROM US 62 €	
T			MICKLEY RD		RT			32			+		 	-	+							PLACE 25' FROM US 62 C	
1			MICKLEY RD	-	IT			24			+-		 		+							PLACE 22' FROM US 62 C	
			MICKLEY RD		RT			27				 	 	-								PLACE 21' FROM US 62 C	
1			PRITCHARD RD		LT L			29			_			+	- 							PLACE 18' FROM US 62 C	
T			BRINKHAVEN RD		<u></u>			40					-		+							PLACE 21' FROM US 62 C	
T	KNO L	JS 62 T	OTALS CARRIED TO NEXT SHEET						2120		_ + _	. -	 				 					PLACE 18' FROM US 62 @	
+			, , , , , , , , , , , , , , , , , , ,					1119	2126		1 2		-		1				110				

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ITEM 644 AUXILIARY PAVEMENT MARKING SUB-SUMMARY

			· · · · · · · · · · · · · · · · · · ·								4 THE													
Ç	C		R				TRAN	24" ISVERSE NES	STOP LINE	I2" CROSSWALI LINES	WORD K PAVEM	ON SI	CHOOL YMBOL		ANE AF			RAILROAD	8"	ISI AND	24"			
Ā	COUNT		ROUT	DESCRIPTION	SLM	SIDE		YELLOW	ľ	WHITE		NLY MA			RT/TH		ТН	SYMBOL MARKING	CHANNE	ISLAND MARKING (YELLOW)	LINE	ED E	REMARKS	
Ň	Y		E				FEET	FEET	FEET	FEET	EACH E	ACH EAG	CHEACH	EACH	EACH	EA. EA	1. EA.	EACH	FEET	SQ. FT.	FT. F	т.		
	KN	o us	S 62	TOTALS FROM PREVIOUS SHEET					1119	2126	1 1	1 2				ŀ	1		110					
				MAIN ST		LT			26					1				<u> </u>				F	PLACE 22' FROM US 62 Q	
				HUNTER RD		RT			21														PLACE 20'FROM US 62 Q	·
				STATE ST		ΙT			36		1 1			1	1				1			F	PLACE 20' FROM US 62 Q	
				STATE ST		LT			27					†	†			1		 			PLACE 20' FROM US 62 C	_
										<u> </u>													TAGE 20 TROM 03 02 E	
1	KN	0 US	S 62	TOTALS TO SUB-SUMMARY					1229	2126		1 2		T		1	1		110					
																	1							
													1	 	1 1									
					· · · · · · · · · · · · · · · · · ·						† †			†				 						
2	LIC	c Jus	\$ 62	ON US 62 @ SR 13		£	T	1	22	<u> </u>	1 1		 				+			 			PLACE 28' FROM SR 13 C	
				ON US 62 @ SR 13		<u>ç</u>		†	24	 	 	-	 	 	† – †		+						PLACE 22' FROM SR 13 Q	
				WELLS AVE.		LT	1	1	19	 			+	†	 		+			 			PLACE 24' FROM US 62 Q	
				WELLS AVE.		RT			21	<u> </u>	 		1	 			+-	<u> </u>						
				MILL ST.		LT			39				 	 			+						PLACE 24' FROM US 62 Q	
	1			UTICA RD.		LT			37		+ +			 	 								PLACE 22' FROM US 62 C	
				UTICA RD.		RT	 	 	30	-			+	 								12	PLACE 25' FROM US 62 ©	
	<u> </u>					1(1							 	 		_	<u> </u>					P	PLACE 22' FROM US 62 ©	
2	LIC	clus	62	TOTALS TO SUB-SUMMARY					192		+			 	·		-							
	+	+		TOTALO TO SOB SOMMANT					132		+ +	_		-			+		· · · · · · · · · · · · · · · · · · ·					
	+										-	_												
	†	_							···		 		 	<u> </u>										
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8-25-03

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LOCATION SUB-SUMMARY

DETAIL	
ı	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.

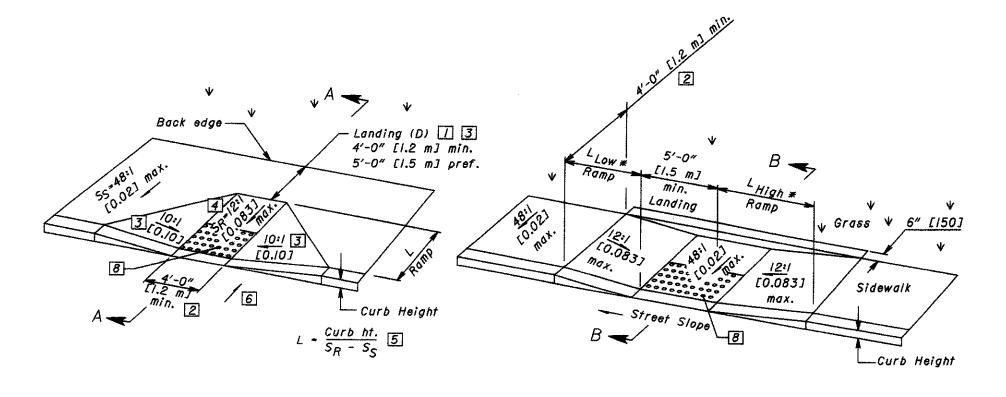
SUB-SUMMARY

LOCU		LO	CATION		D E			TEM QUA	NTITIES ON ONLY		PRISA	MATIC RE	TRO-REF	LECTOR	COLORS		
A M T B I E	COUNTY	ROUTE	S.L MIL	M. _ES T	T A		ļ	RPM	PRISMATIC	PRISMATIC RETRO-	ONE-		L	O-WAY		REMARKS	
O R			FROM	ТО	Ĺ	RPM	RPM	CASTING	RETRO- REFLECTOR	REFLECTOR	WHITE	YELLOW	YELLOW/	WHITE/ RED	YELLOW/ RED		1
!	KNO	US 62	0.00	4.09	GAP		270						270			LIC. CO. TO MARTINSRURG WEST CORP	
	KNO KNO	US 62 US 62	4.70	4.90	12		29						29			PC 4.79 PT 4.81L=106' DEG 26	V
1	KNO	US 62	4.90 7.40	7.40 7.44	GAP		165 5						165 5				
	KNO KNO	US 62	7.44	12.43	GAP	***	329						329			PC 7.40 PT 7.44 L=2IP DEG 5	
	KNO	US 62 US 62	12.43 12.48	12.48 12.78	GAP		7 20						7 20			PC 2.43 PT 2.48 L=264' DEG 5	
I.	KNO	US 62	12.69	12.91	12		34						34			PC 12.78 PT 12.82 L=211' DEG 19	
	KNO KNO	US 62 US 62	12.91 17.29	17.29 17.40	GAP		289 4		-				289				
	KNO	US 62	17.40	17.45	GAP		3			 			14 3			PC 17.29 PT 17.40 L=581 DEG 5	
	KNO KNO	US 62 US 62	17.45 17.51	17.51			8		·				8			PC 17.45 PT 17.51 L=317' DEG 7	
1	KNO	US 62	18.75	17.68 19.45	GAP GAP	<u> </u>	46			 			11 46			SLM TO DANVILLE W. CORP.	
1	KNO KNO	US 62	19.45	19.64	11		25						25			DANVILLE E. CORP. TO SLM PC 19.45 PT 19.64 L=1003' DEG 5	
-	KNU	US 62	19.64	22.87	GAP		213						213			END HOLMES COUNTY	
1	TOTALS	CARRIED TO	SUB-SUMMARY				1468						1468				
				·													
	170	110.00															
2	LIC	US 62	19.61	20.68	GAP		71						71			UTICA E. CORP. TO KNOX COUNTY	
				 		· · · · · · · · · · · · · · · · · · ·											
					+												00.
																	—— • <u>¤</u>
					-												
																	—— ° ° °
		<u> </u>		7/8/d/W													KN0-62-
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																	33

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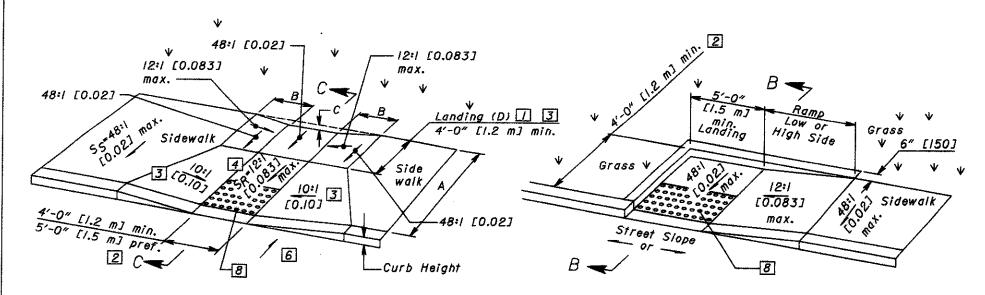
Ramp Length @ I"/ft [0.083] Street Slope LLOW SIDE * LHIGH SIDE* 0.01 5'-5" [1.6 m] 6'-10" [2.1 m] 0.02 4'-10" [1.5 m] 7'-11" [2.4 m] 0.03 4'-5" [1.3 m] 9'-5" [2.9 m] 0.04 4'-1" [1.2 m] //'-8" [3.6 m] 3'-9" [l.l m] 15'-2" [4.6 m] * Measured along the back of a 6" [150] high curb.

Curb ht. 0.083 - Street Slope

Curb ht. 0.083 + Street Slope

See Sht. 3/3 for SECTION A-A PERPENDICULAR CURB RAMP DETAIL

See Sht. 3/3 for SECTION B-B PARALLEL CURB RAMP DETAIL (DOUBLE)



LEGEND

May be reduced to 3'-0" [915] in existing sidewalks if the landing is unconstrained along the back edge.

May be reduced to 3'-4" [1.02 m] in existing sidewalks to better fit the walk configuration or where site conditions are restricted by narrow walks, pole foundations, drainage inlets, etc. The width may be tapered.

Where landing width (D) has been reduced to 3'-0" [915] the flared sides shall have a maximum slope of |21 [0.083].

Flared sides are not required where the edges of a curb ramp are protected by landscaping or other barriers to travel by wheel chair users or pedestrians across the edge of the curb ramp. However, if the flared sides are used in these areas, they may be of any slope.

The slope of the ramp toward the curb is preferred to be 12:1 [0.083] or flatter related to the horizontal, but the maximum slope shall be 12:1 [0.083] relative to the existing or proposed walk slope.

In existing sidewalks, where the maximum ramp slope (Sp) is not feasible, it may be reduced as follows:

10:1 [0.10] for a max. rise of 6" [150] 8:| [0.125] for a max. rise of 3" [75], 6:| [0.167] over a max. run of 2'-0" [6|0] for historic areas where a flatter slope is not feasible.

The minimum length of a perpendicular ramp is 6' [2.0 m] from the back of a 6" [150] curb and may be increased where feasible to obtain a flatter ramp slope or to better blend with the walk configuration.

Gutter counter slopes at the foot of perpendicular curb ramps should not exceed 20:1 [0.05] over a distance of 2'-0" [6/0] from the curb.

7 Dimensions derived by equation are nominal. Construct ramps to meet required slopes and existing conditions.

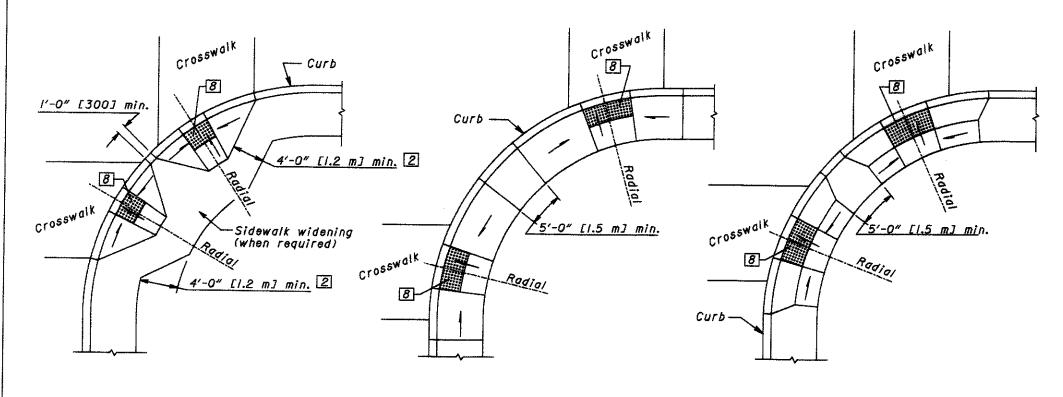
in the location shown. Dimensions of the domes are 24" [610] from the back of the curb by the width of the ramp. See NOTES on sheet 3.

See Sht. 3/3 for SECTION C-C COMBINED CURB RAMP DETAIL

B - C / 0.083 $C = [Curb \ ht. + A(S_C)] - [(A-D)S_R + D(0.02)]$

See Sht. 3/3 for SECTION B-B PARALLEL CURB RAMP DETAIL (SINGLE)

Detectable Warnings (truncated domes) are to be installed



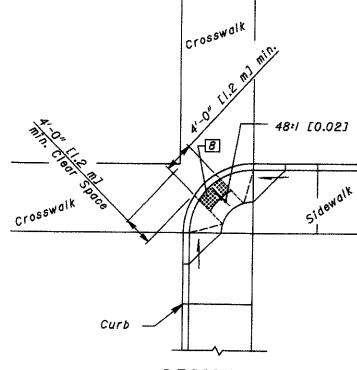
DESIGN A PERPENDICULAR RAMP

DESIGN B PARALLEL RAMP

DESIGN C COMBINATION RAMP

CORNER CURB RAMP DESIGNS

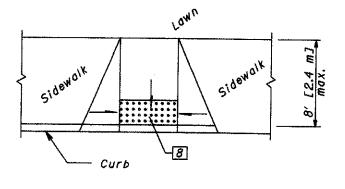
(See Curb Ramp Details on Sht. 1/3 for additional requirements.)



DESIGN D DIAGONAL RAMP

Use in existing walks only and when site constraints prohibit other designs. The diagonal ramp may be perpendicular, parallel or combination.

Avoid using where curb radii are less than 20'-0" [6.0 m].



Landing 5'-0" [1.5 m] min.

Lawn

Lawn

Sidewalk

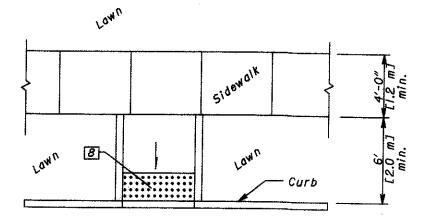
Sidewalk

Curb

Curb

Curb

For LEGEND, See sheet i.



DESIGN E PERPENDICULAR RAMP

DESIGN F PARALLEL RAMP

DESIGN G PERPENDICULAR RAMPS W/o FLARES

MID BLOCK CURB RAMP DESIGNS

(See Curb Ramp Details on Sht. 1/3 for additional requirements.)



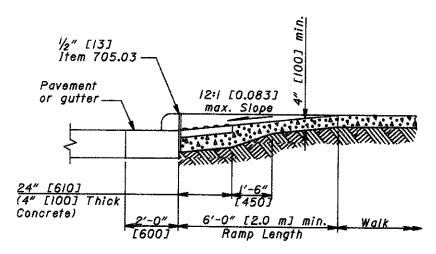
NOTES

SURFACE TEXTURE: Texture of concrete surfaces shall be obtained by coarse brooming transverse to the ramp slopes and shall be rougher than adjacent walk.

TRUNCATED DOMES: Install detectable warnings (truncated domes) for a distance of 24" [610] from the back of the curb for the entire width of the ramp opening as shown on details on Sheet I.

Pavers will meet ASTM C 902 Class SX, Type I, or C 936, or C 1272 Type R.

Acceptable manufacturers and products are: 1) Whitacre-Greer Fireproofing Company, 1400 S. Mahoning Ave, Alliance, OH, 44601, (800) WG PAVER ADA Paver, 4"x8"x2-1/4", Clear Red (Rustic) #30.



SECTION A-A NORMAL DETAIL See Sheet I of 3. (Gutter shown)

SECTION A-A

EXISTING WALK DETAIL

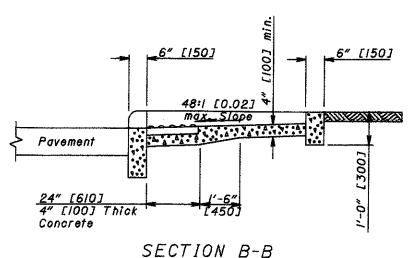
See Sheet I of 3.

2) Hanover Architectural Products, 240 Bender Rd., Hanover, PA, 17331, (717) 637-0500 Detectable Warning Paver, 12"x12"x2", or 24"x24"x2" Red or Quarry Red.

3) Endicott Clay Products. PO Box 17, Fairbury, NE, 68352, (402) 729-5804 Handicap Detectable Warning Paver, 4"x8"x2-1/4", Red Blend.

Pavers will laid on top of a 4" [100] unreinforced concrete base. Setting bed and joints to be mortared in accordance with manufacturer's instruction, or with a maximum 1/2" [13] thick bed of latex modified cement mortar. Mortar joints to a width not greater than 3/2" [4] and not less than 1/16" [1.5]. Pavers shall not be directly touching each other unless they have spacing bars.

Mortared 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.



See Sheet | of 3.

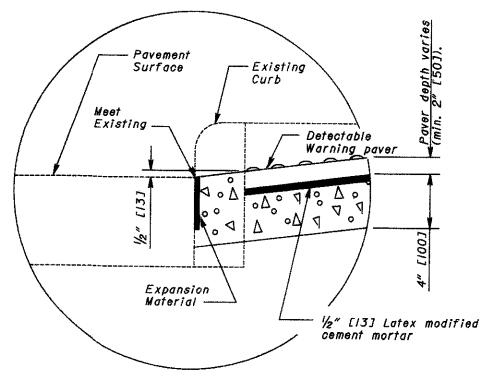
Adjacent to P.C.C. - ½" [13] Preformed Joint material Item 705.03 with Joint See DETAIL A Sealer applied per SCD BP-5.1. ½″ [13] Item 705.03 Remove Existing 6" [150] 12:1 [0.083] Curb max. Slope V. 14 . 2 48:1 [0.02] 12:1 [0.083] max. Slope Existing Pavemax. Slope ment or Gutter Saw Cut if Curb is Monolithic with **Pavement** Pavement or Gutter <u>2'-0" [6|0]</u> 4" [|00] thick 24" [6|0] (4" [100] Thick Concrete [450] 6'-0" [2.0 m] min. Congrete) Ramp Length Payment Length

> SECTION C-C See Sheet I of 3.

The surface of any two adjacent units should not differ by more than $\frac{1}{8}$ " [3] in height. Bricks shall be placed in a running bond pattern. Face of all brick shall be clean of cement and protected so as to avoid chipping during constructionn.

EXPANSION JOINTS: shall be provided in the curb ramp as extensions of walk joints and consistent with Item 608.03 requirements for a new concrete walk. A 1/2" [13] Item 705.03 expansion joint filler shall be provided around the edge of ramps built in existing concrete walk. Lines shown on this drawing indicate the ramp edge and slope changes and are not necessarily joint lines.

PAYMENT: Walk and curb, Items 608 and 609, shall be measured through the curb ramp area paid for under their respective Items. Item 608 - Curb Ramp, As Per Plan, Each constructed in new curb and walk shall include the cost of any additional materials and installation (including truncated domes), grading, forming and finishing. Item 608 -Curb Ramp. As Per Plan, Square Foot [Meter], constructed in existing curb and walk shall include the cost of furnishing and installing all materials (including truncated domes). grading, forming, and finishing of the curb and walk of the curb ramp. Removal of existing curb and walk shall be paid for under Item 202.



DETAIL A

KNO-62-LIC-62-1

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S3.00 4.32 6 4 2 400 57.40 MILE WORK ZONE CENTER LINE, CLASS II				614	13000	9.6	CU.YD.		-
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22.66 2.20 642 00300 24.86 MILE CENTER LINE, TYPE I 9 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	σ <u> </u>	44.10	4.40	6/12	00100	40.50	1411 =	Sport the Type	
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LOCATION L	OCATION 2	ITEM	ITEM EXT. NO.	GRAND TOTALS	UNIT	DESCRIPTION	JAME ONTOTIVA ED
110		644	00400	110	FT	CHANNELIZING LINE	
1229	192	644	00500	1421	FT	STOP LINE	
2 26		644	00600	2126	FT	CROSSWALK LINE	
2		644	01100	2	EACH	SCHOOL SYMBOL MARKING, 72"	
		644	01300	1	EACH	LANE ARROW	
<u> </u>		644	01410	l	EACH	WORD ON PAVEMENT, 96", "ONLY"	
4							
2		SPECIAL			EACH	MAILBOX SUPPORT SYSTEM, SINGLE	
8		SPECIAL			EACH	MAILBOX SUPPORT SYSTEM, DOUBLE	>
0		SPECIAL	69098800	8	TON	MISC.: #57 LIMESTONE FOR DRIVES	
		614	11000	LUMP		MAINTAINING TRAFFIC	
		619	16000		MONTH		
		623	10000	LUMP		CONSTRUCTION LAYOUT STAKES	
		624	10000	LUMP		MOBILIZATION	
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