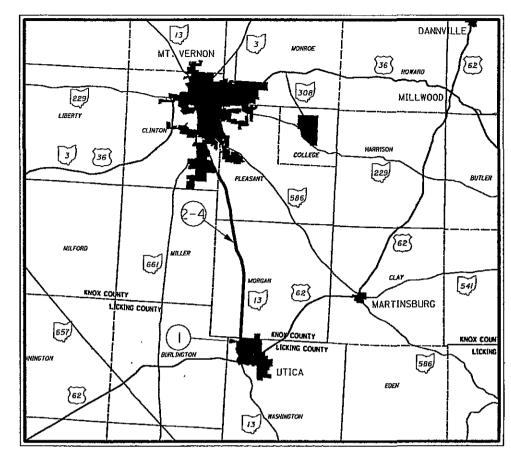
# LOCATION MAP



PORTION TO BE IMPROVED LATTITUDE N40° 18' 03" LONGITUDE W82° 27' 20"

UNDERGROUND UTILITIES CONTACT BOTH SERVICES CALL TWO WORKING DAYS BEFORE YOU DIG OF SHIP 1-800-362-2764 (TOLL FREE) OHIO UTILITIES PROTECTION SERVICE NON-MEMBERS MUST BE CALLED DIRECTLY OIL & GAS PRODUCERS PROTECTIVE SERVICE CALL: I-800-929-0988

DESIGN EXCEPTIONS: NONE

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# STATE OF OHIO DEPARTMENT OF TRANSPORTATION

LIC-13-22.39 KNO-13-0.00

VILLAGE OF UTICA CITY OF MOUNT VERNON CLINTON/MORGAN/ PLEASANT/WASHINGTON TOWNSHIP LICKING/KNOX COUNTY

PROJECT DESCRIPTION: 2-LANE ASPHALT CONCRETE RESURFACING AND RELATED WORK.

LOCATION	COUNTY	ROUTE	SECTIONS	NET LENGTH MILES	CITY	VILLAGE
1	LIC	SR 13	22.39-23.58	1.19		UTICA
2	KNO	SR 13	0.00-7.37, 7.98-8.16, 8.22-8.30, 8.50-8.71	7.84		
3	KNO	SR I3	7.37-7.98, 8.16-8.22, 8.30-8.42, 8.71-9.00	1.08	MT.VERNON	
4	KNO	SR 13	8.42-8.50, 9.00-9.16	0.24	MT.VERNON	

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#### MAINTENANCE PROJECT

PROJECT EDA = N/A ESTIMATED CONTRACTOR EDA = N/A NOTICE OF INTENT EDA = N/A (EDA = INTENT EARTH DISTURBED AREA)

#### 2005 SPECIFICATIONS

THE STANDARD 2005 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. PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

DOUGLAS N. MORGAN . PLAN PREPARED BY: istrici 6/19/2007 Production

OPA = Other Principal Arterial (Rural) LOCATION DESIGN DESIGNATION LICKING CO KNOX CO Functional Classification OPA OPA Current ADT (2007) 5800 5300 Design Year ADT (2019) 6500 5900 Design Hourly Volume (2019) 650 590 Directional Distribution 50% 50% Trucks (24 Hour B&C) 7% 10% 55mph Design Speed 55mph Legal Speed 55mph 55mph

STAN DRAN	DARD VINGS	STANDARD DRAWINGS				
BP-3.1	7-16-04	TC-65.10	<i>I-2I-05</i>			
BP-4.1	7-16-04	TC-65.11	<i>1-21-05</i>			
BP-7.1	1-19-07	TC-71.10	1-21-05			
BP-7.2	1-19-07	TC-73.10	1-19-01			
DS-1-92	07-18-03	SUPPLE	MENTAL			
MT-97.10	4-19-02	SPECIFIC	CATIONS			
MT-97.11	4-19-02	800	7-20-07			
MT-99.20M	1-30-95	832	4-25-06			

DATE 6/19/2007 DISTRICT DEPUTY DIRECTOR

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#### 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 PROJECT LIMITS AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT OWNERS AND VERIFY LOCATIONS:

AEP DISTRIBUTION 850 TECH CENTER DRIVE GAHANNA, OHIO 43230 ATTN: RICK ECKLE 614-883-6829

COLUMBIA GAS OHIO 920 GOODALE BLVD. COLUMBUS. OHIO 43212 ATTN: LYLE WHITTEMORE 614-460-2170

INSITE CABLE 3770 EAST LIVINGSTON AVE. COLUMBUS, OHIO 43227 ATTN: JOHN WINTERS 614-501-9432 EXT 207

**EMBARQ** 441 WEST BROAD STREET PATASKALA, OHIO 43062 ATTN: Brandon Walters 419-755-7532

AEP TRANSMISSION 700 MORRISON ROAD GAHANNA, OHIO 43230 ATTN: TOD WICK 614-552-1899

COLUMBIA GAS TRANSMISSION 301 MAPLE STREET SUGAR GROVE, OHIO 43155 ATTN: JIM SWATZFI 740-746-2297

NATIONAL GAS AND OIL CORP. 1500 GRANVILLE ROAD P.O. BOX 4970 NEWARK. OHIO 43058-4970 ATTN:GREG WILSON 740-348-1254

# 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 LANF RESTRICTIONS.

SEND NOTIFICATION TO:

01300mgnl.dgn

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

## CONSTRUCTION SCHEDULE

NO WORK SHALL BEGIN ON THIS PROJECT UNTIL MAY 01, 2008.

## ITEM 617 COMPACTED AGGREGATE, 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 PERMITTED, 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 SOUARE YARD FOR ESTIMATING PURPOSES ONLY.

#### 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 LINEESS OTHERWISE DIRECTED BY THE ENGINEER. DOCUMENTATION OF PAVEMENT MARKING SHALL BE SUPPLIED TO THE ENGINEER BEFORE COMMENCEMENT OF ANY OPERATION WHICH WILL REMOVE/OBLITERATE MARKINGS.

#### 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.

# CONVERSION OF STANDARD CONSTRUCTION DRAWINGS

CONVERT THE ENGLISH STANDARD DRAWINGS REFERENCED IN THIS PLAN TO METRIC UNITS USING THE ENGLISH TO SI (METRIC) CONVERSION FACTORS PROVIDED IN SECTION 109.02 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS. CONVERSIONS WILL BE APPROPRIATELY PRECISE AND REFLECT STANDARD INDUSTRY SI (METRIC) VALUES WHERE SUITABLE.



## 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	LC	CATIC	NS
WORK ZONE MARKING SIGNS	1	2	
W8-H12a (NO EDGE LINES)	2	11	
R4-1 (DO NOT PASS)	2	26	
R4-2 (PASS WITH CARE)		4	
W20-1 (ROAD WORK AHEAD)	7	41	
G20-2 (END ROAD WORK)	7.	41	
TOTAL	18	123	

## **FEATHERING**

05/18/07

Date

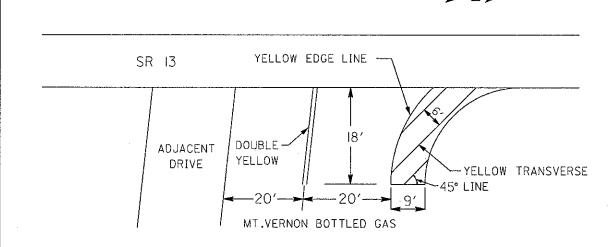
01300MGN2.DGN

FEATHERING OF THE ASPHALT CONCRETE SHALL BE DONE IN ACCORDANCE WITH SCD DRAWING BP-3.1, 7-16-04.

#### PAVEMENT MARKING DETAIL

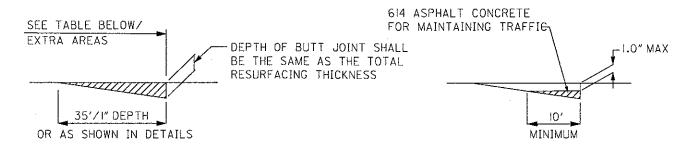
THE FOLLOWING DETAIL IS FOR PAVEMENT MARKING AT DRIVEWAY FOR "MT. VERNON BOTTLED GAS". THE INTENT IS TO RESTRICT THE TRAFFIC FLOW FOR SAFETY PURPOSES. ALL MARKINGS IN THIS AREA SHALL BE ITEM 642 FAST DRY EXCEPT FOR THE TRANSVERSE/DIAGONAL LINE WHICH SHALL BE ITEM 644 THERMOPLASTIC. THE FOLLOWING ESTIMATED QUANTITIES ARE CARRIED TO THE GENERAL SUMMARY.

LOCATION 1
ITEM 642 EDGE LINE 0.01 MILE (29 FT.)
ITEM 642 CENTER LINE 0.01 MILE (18 FT.)
ITEM 644 TRANSVERSE LINE 50 FT.



#### 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 SURFACE 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, 7-16-04 UNLESS OTHERWISE SHOWN IN THE PLANS.



LOCATION	ROUTE	DESCRIPTION	SLM	202 WEARING COURSE REMOVED * SO. YD.	614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC CU.YD.
2	SR 13	BEGIN WORK	0.00	164	0.9
2	SR 13	RR CROSSING #152059J	3.88	164	0.9
2	SR 13	RR CROSSING #152059J	3.88	164	0.9
TOT.	AL CARRIED	TO SHEET 19		492	2.7
4	SR 13	END WORK	9.16	164	0.9
TOTA	L CARRIED	TO SHEET 21		164	0.9

<sup>\*</sup>INCLUDES QUANTITY FOR SHOULDERS

#### 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, 7-16-04.

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 442 ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (448), AS PER PLAN.

#### ITEM 442

ASPHALT CONCRETE SURFACE COURSE, 12.5mm, TYPE A (448), AS PER PLAN LOCATION 2 - 50 CU.YD.

LOCATION 3 - 7 CU. YD.

LOCATION 4 - 1 CU. YD.



# ITEM 604 CATCH BASIN ADJUSTED TO GRADE ITEM 604 MANHOLE ADJUSTED TO GRADE

THESE ITEMS SHALL BE USED TO ADJUST CATCH BASINS AND MANHOLES LOCATED
THROUGH -OUT THE PROJECT LIMITS AS DIRECTED BY THE ENGINEER. ALL MATERIALS,
LABOR EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THE WORK DESCRIBED
SHALL BE INCLUDED FOR PAYMENT WITH THE ITEMS LISTED BELOW.

ANY GAS VALVE BOXES AND TELEPHONE COMPANY MANHOLES ON THIS PROJECT SHALL BE ADJUSTED TO GRADE BY THE RESPECTIVE OWNERS.

ITEM 604 CATCH BASIN ADJUSTED TO GRADE LOCATION 1 - 6 EACH

ITEM 604 MANHOLE ADJUSTED TO GRADE LOCATION 1 - 1 EACH

# ITEM 202 RAISED PAVEMENT MARKER REMOVED

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE PLANS TO REMOVE RAISED PAVEMENT MARKERS FOR DISPOSAL BY THE CONTRACTOR.

RPM REMOVAL SHALL NOT OCCUR SOONER THAN 10 DAYS PRIOR TO RESURFACING OF THE ROADWAY. ALL RPM'S REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

ITEM 202 RAISED PAVEMENT MARKER REMOVED LOCATION 2 - 552 EACH LOCATION 3 - 77 EACH LOCATION 4 - 19 EACH

## ITEM 209 LINEAR GRADING

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.

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. ALL EQUIPMENT, LABOR, OR INCIDENTALS REQUIRED TO COMPLETE THIS ITEM SHALL BE INCLUDED FOR PAYMENT IN THE UNIT PRICE BID FOR ITEM 209 LINEAR GRADING. THIS WORK MAY BE INTERMITTENT AND SPREAD THROUGHOUT THE PROJECT LIMITS, AS DIRECTED BY THE ENGINEER. ALL LINEAR GRADING WORK SHALL BE DONE BEFORE PLACING THE ASPHALT SURFACE COURSE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE ABOVE PURPOSES.

ITEM 209 LINEAR GRADING LOCATION 2 - 3 MILES

## RESIDENCE AND COMMERCIAL DRIVES

AN ESTIMATED QUANTITY OF ITEM 442 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 PAVEMENT OR PAVED SHOULDER IF PRESENT). 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 UNLESS OTHERWISE DIRECTED BY THE ENGINEER. CONCRETE AND ASPHALT DRIVES SHALL HAVE BUTT JOINTS OR AS SHORT AN ASPHALT TAPER AS POSSIBLE (PREFERRED 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 AS POSSIBLE (PREFERRED 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. ALL GRADING, 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 442 ASPHALT CONCRETE SURFACE COURSE, 12.5mm, TYPE A PG76-22 (448), AS PER PLAN.

ITEM 442
ASPHALT CONCRETE SURFACE COURSE, 12.5mm, TYPE A (448), AS PER PLAN
LOCATION 2 - 60 CU.YD.

# 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 WHERE THE EXISTING PAVEMENT HAS DETERIORATED. FINAL LOCATIONS OF PAVEMENT REPAIR SHALL BE DETERMINED BY THE ENGINEER AT THE TIME OF CONSTRUCTION. DEPTH OF EXCAVATION SHALL BE APPROXIMATELY 8". AFTER EXCAVATION HAS BEEN COMPLETED, THE FACE OF THE REPAIR SHALL BE COATED WITH ITEM 407 TACK COAT. REPLACEMENT MATERIAL WILL BE 8" OF ITEM 301 BITUMINOUS AGGREGATE BASE, PG 64-22 (PLACED AND COMPACTED AS DIRECTED BY THE ENGINEER). 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. AFTER ALL PAVEMENT REPAIR HAS BEEN ACCOMPLISHED, THE ENTIRE SURFACE WILL BE OVERLAID WITH 1.5" OF ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (448), AS PER PLAN.

LOCATION 1
ITEM 253 PAVEMENT REPAIR. AS PER PLAN 230 SQ. YD.

LOCATION 2 ITEM 253 PAVEMENT REPAIR, AS PER PLAN 1515 SQ. YD.

LOCATION 3 ITEM 253 PAVEMENT REPAIR, AS PER PLAN 209 SQ. YD.

LOCATION 4
ITEM 253 PAVEMENT REPAIR, AS PER PLAN 46 SQ. YD.

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ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN
DEPTH OF PAVEMENT PLANING SHALL BE AS SHOWN BELOW OR 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
SUPERELEVATIONS WHERE APPLICABLE. THIS MAY REQUIRE ADDITIONAL MILLING DEPTH DUE
TO EXISTING GRADER PATCHES AND PAVEMENT REPAIR. ALL SPECIFICATIONS OF ITEM 254 SHALL
APPLY, EXCEPT, THE SURFACE COURSE SHALL BE PLACED IMMEDIATELY AFTER THE MILLING
OPERATION. NO TRAFFIC SHALL BE ALLOWED TO TRAVEL ON THE MILLED SURFACE.

SR 13 SLM 22.39 TO 23.58 = 1.19 MILE - PLANE 1.5" IN DEPTH (QUANTITY SHOWN ON SHEET 7)

540 TONS OF THE RACP (GRINDINGS) SHALL BE DELIVERED TO THE OHIO DEPARTMENT OF TRANSPORTATION, UTICA OUTPOST, IN UTICA, OHIO. THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN.

# AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PUBLIC USE AIRPORT OR HELIPORT. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED A HEIGHT OF 68 FEET. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, FURTHER COORDINATION WITH THE FEDERAL AVIATION ADMINISTRATION (FAA), AND ODOT OFFICE OF AVIATION, WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT FORM 7460-1 TO THE FAA. A COPY OF THE SUBMISSION AND TWO COPIES OF FORM 7460-1 SHALL BE FORWARDED TO THE ODOT OFFICE OF AVIATION. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL A COPY OF THE FAA APPROVAL AND ODOT OFFICE OF AVIATION PERMIT HAS BEEN FURNISHED TO THE PROJECT ENGINEER.

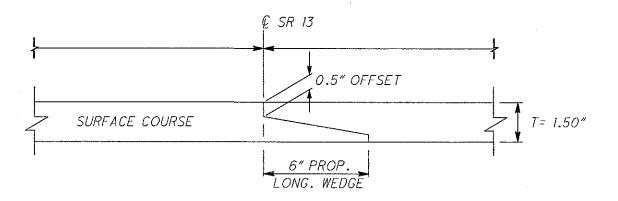
Express Processing Center
The Federal Aviation Administration
Southwest Regional Office
Air Traffic Airspace Branch ASW-520
2601 Meachan Blvd.
Fort Worth, TX 76137-4298

Ohio Department of Transportation Office of Aviation 2829 West Dublin-Granville Road Columbus, Ohio 43235 614-387-2346

# ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (448), AS PER PLAN

THE ASPHALT BINDER FOR THE SURFACE COURSE SHALL BE PG 76-22M IN LIEU OF PG 70-22.

CONSTRUCTION OF THE SURFACE COURSE WILL INCLUDE CREATING A WEDGE ALONG THE LONGITUDINAL JOINT BETWEEN THE NORTH AND SOUTH BOUND LANES AS SHOWN IN DETAIL BELOW. THE FIRST LANE CONSTRUCTED SHALL INCLUDE THE WEDGE WHICH EXTENDS 6 INCHES INTO THE ADJACENT LANE. THE PROPOSED WEDGE SHALL REMAIN IN PLACE DURING PLACEMENT OF THE SURFACE COURSE FOR THE ADJACENT LANE.



#### LONGITUDINAL JOINT DETAIL FOR SURFACE COURSE

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MODIFY
STANDARD PAVING EQUIPMENT SUCH THAT THE LONGITUDINAL JOINTS MAY
BE CREATED AS SHOWN IN THE DETAIL ABOVE. THE SURFACE COURSE SHALL
BE COMPACTED WITH A ROLLER NOT EXTENDING MORE THAN 2" BEYOND THE
TOP OF THE UNCONFINED EDGE. AFTER A LIFT HAS BEEN PLACED FOR A
SECTION OF S.R. 13, THEN A LIFT FOR THE ADJACENT LANE SHALL BE
CONSTRUCTED SUCH THAT THE LONGITUDINAL JOINT IS COMPLETED WITHIN
24 HOURS. ALL MATERIALS, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS
NECESSARY TO PERFORM ALL WORK AS DESCRIBED WITHIN GIVEN PLAN NOTE
SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 442 ASPHALT CONCRETE
SURFACE COURSE, 12.5MM, TYPE A (448), AS PER PLAN.

#### PROFILE AND ALIGNMENT

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



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#### ITEM SPECIAL - MAILBOX SUPPORT

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

WOOD POSTS SHALL BE NOMINAL 4" BY 4" SQUARE OR 4 1/2" DIAMETER ROUND, AND CONFORM TO 710.14.

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

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

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

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.

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERM-ANENT INSTALLATIONS. TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.10. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY. MAILBOX SUPPORTS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL MAILBOX SUPPORT SYSTEM, (SINGLE) (DOUBLE).

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 202 - MAILBOX REMOVED

LOCATION 2 - 1 EACH

ITEM SPECIAL - MAILBOX SUPPORT SYSTEM, SINGLE

LOCATION 2 - 1 EACH

# ITEM 408 PRIME COAT, AS PER PLAN

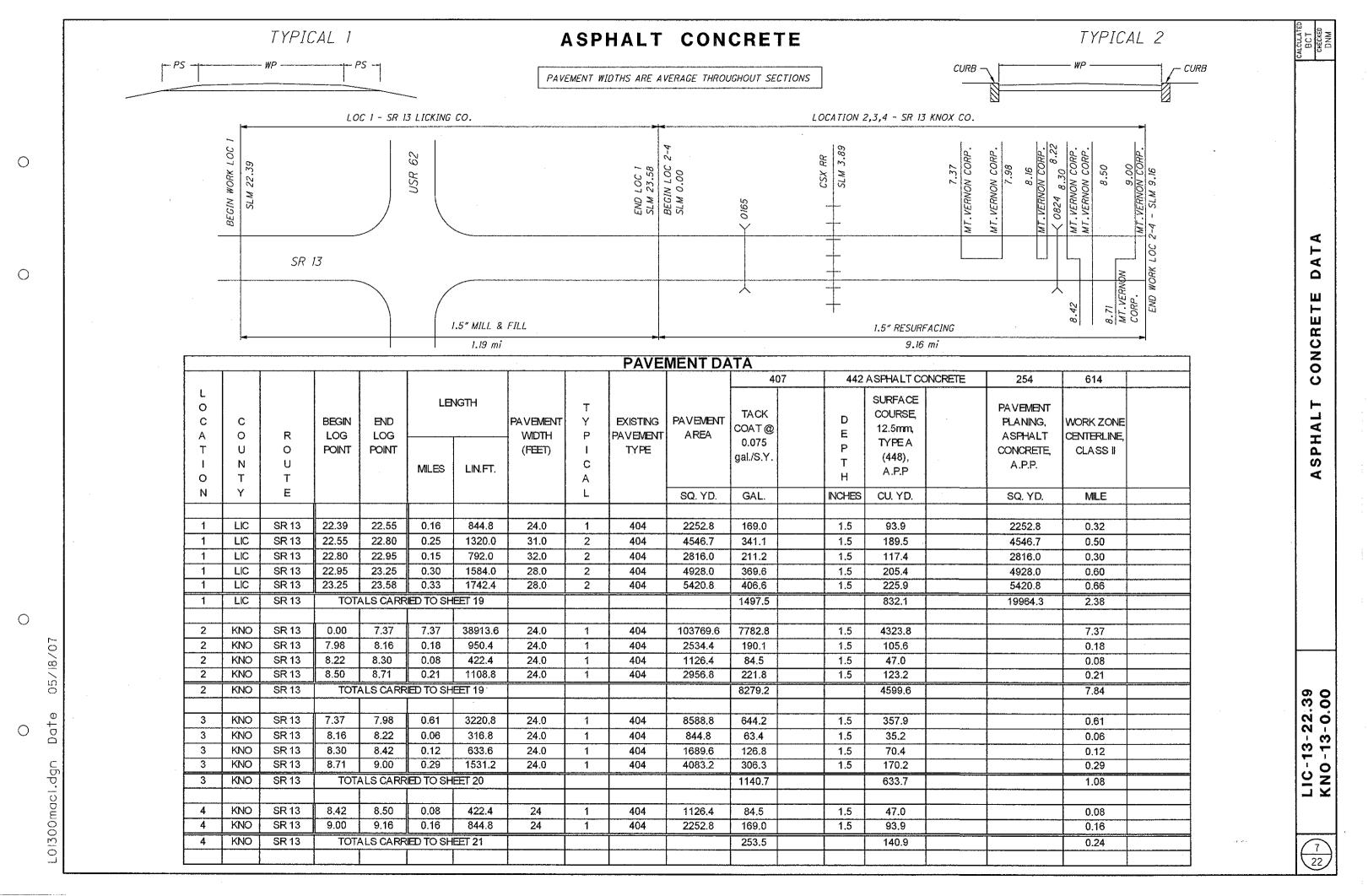
THE CONTRACTOR SHALL APPLY ONE COAT OF MC-70 (AS PER SECTION 702) AT A RATE OF 0.40 GALLON PER SQUARE YARD TO THE COMPLETED AGGREGATE SHOULDER (ITEM 617) AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A SHIELD TO PREVENT THE SPRAYING OR DRIFTING OF LIQUID BITUMINOUS MATERIAL ONTO THE EDGE 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 2 - 1022.4 SY X 0.40 = 409 GAL. LOCATION 3 - 141.3 SY X 0.40 = 57 GAL. LOCATION 4 - 31.7 SY X 0.40 = 13 GAL.

# PAVING AT RAILROAD CROSSING

WORK THE CROWN OUT OF THE PROPOSED PAVEMENT ON EACH SIDE OF THE RAILROAD CROSSING, BEGINNING 50 FEET [15 METERS] FROM THE NEAREST RAIL, BY RAISING THE EDGES OF THE NEW PAVEMENT TO MEET THE PLATFORM ELEVATION.

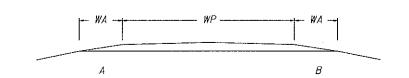


# SHOULDER TREATMENT

TYPICAL 1

TYPICAL 2

TYPICAL 3





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									······································			SHOL	ILDER DATA					
													407	442	ASPHALT CONCRETE		617	254
L O				p 1 p	LEN	NGTH	Т	PROI	POSED	WIDTI-	I (FT.)	SHOULDED	TACK	5	SURFACE COURSE,		COMPACTED	PAVEMENT
C A T O	C O U N T	R O U T	BEGIN LOG POINT	LOG	MILES	LIN.FT.	Y P I C A	A	В	С	D	SHOULDER AREA	COAT @ 0.075 GAL./SQ . YD.	D E P T H	12.5MM, TYPE A (448), A.P.P.	AVG. DEPTH	AGGREGATE, AS PER PLAN (2' AVERAGE WIDTH)	PLANING, ASPHALT CONCRETE, AS PER PLAN
N	Υ	E					L		1			SQ. YD.	GAL.	IN.	CU. YD.	IN.	CU. YD.	SQ. YD.
1	LIC	SR 13	22.39	22.55	0.16	844.8	1	5	4			844.8	63.4	1.5	35.2			844.8
1	LIC	SR 13	23.50	23.58	0.08	422.4	1	2	2			187.7	14.1	1.5	7.9	***************************************		187.7
1	LIC	SR 13	Т	OTALS C	ARRIED TO	SHEET 19	) 						77.5		43.1			1032.5
2	KNO	SR 13	0.00	7.37	7.37	38913.6	1	2	2			17294.9	1297.2	1.5	720.7	2.0	960.9	
2	KNO	SR 13	7.98	8.16	0.18	950.4	1	2	2		.,	422.4	31.7	1.5	17.6	2.0	23.5	
2	KNO	SR 13	8.22	8.30	0.08	422.4	1	2	2			187.7	14.1	1.5	7.9	2.0	10.5	
2	KNO	SR 13	8.50	8.55	0.05	264.0	1	2	5			205.3	15.4	1.5	8.6	2.0	6.6	
2	KNO	SR 13	8.55	8.71	0.16	844.8	1	2	2			375.5	28.2	1.5	15.7	2.0	20.9	
2	KNO	SR 13	T	OTALS C	A RRIED TO	O SHEET 19	1						1386.6		770.5		1022.4	
3	KNO	SR 13	7.37	7.98	0.61	3220.8	1	2	2	<u> </u>		1431.5	107.4	1.5	59.7	2.0	79.6	
3	KNO	SR 13	8.16	8.22	0.06	316.8	1	2	2			140.8	10.6	1.5	5.9	2.0	7.9	
3	KNO	SR 13	8.30	8.38	0.08	422.4	1	2	2			187.7	14.1	1.5	7.9	2.0	10.5	
3	KNO	SR 13	8.38	8.41	0.03	158.4	1	2	10			211.2	15.9	1.5	8.8	2.0	4.0	
3	KNO	SR 13	8.41	8,42	0.01	52.8	1	13	10			134.9	10.2	1.5	5.7	2.0	1.4	
3	KNO	SR 13	8.71	9.00	0.29	1531.2	1	2	2			680.5	51.1	1.5	28.4	2.0	37.9	
3	KNO	SR 13	Т	OTALS C	ARRIED TO	SHEET 20							209.3		116.4		141.3	
									<u>                                     </u>		-							
4	KNO	SR 13	8.42	8.44	0.02	105.6	1	13	10	<u> </u>		269.9	20.3	1.5	11.2	2.0	2.7	
4	KNO	SR 13	8.44	8.46	0.02	105.6	1	2	10			140.8	10.6	1.5	5.9	2.0	2.7	
4	KNO	SR 13	8.46	8.49	0.03	158.4	1	2	2			70.4	5.3	1.5	2.9	2.0	4.0	
4	KNO KNO	SR 13 SR 13	8.49	8.50 9.16	0.01	52.8	1 1	2	5		•	41.1	3.1	1.5	1.7	2.0	1.4	
	<del> </del>		9.00		<u> </u>	844.8	<u> </u>	2	2		<del></del>	375.5	28.2	1.5	15.6	2.0	20.9	
4	KNO	SR 13	1 1	JIALS G	AKKIED I	O SHEET 21	Ι	<u> </u>					67.5		37.3	<u> </u>	31.7	

Date

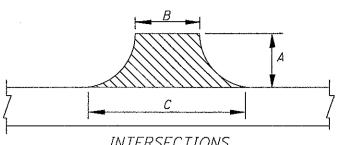
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DATA AREAS EXTRA



							PAVE	EMENT DA	TA					
					INTE	ERSECTI	ONS			407		442 ASPI	HALT CONCRETE	202
L 0 0	0					IL DIMEN			TACK COAT		D	SURFACÉ COURSE	1 i	WEARING
CATIO	C O U N T	R O U T	SIDE	DESCRIPTION	А	В	С	AREA	@ 0.075 GAL./ SQ. YD.		E P T H	12.5 MM, TYPE A (448), A.P.P.		COURSE
N	Y	E			FT	FT	FT	SQ. YD.	GAL.		IN	CU. YD.		SQ. YD.
1	LIC	SR 13	RT	BLACKSNAKE RD.	33	21	52	133.9	10.1		1.5	5.6		133.9
1	LIC	SR 13	RT	MILL ST.	10	31	43	41.2	3.1		1.5	1.8		41.2
1	LIC	SR 13	RT	ALLEY	12	13	20	22.0	1.7		1.5	1.0		22.0
1	LIC	SR 13	LT	ALLEY	10	12	20	17.8	1.4		1.8	0.8		17.8
1	LIC	SR 13	LT	ALLEY	12	8	18	17.4	1.4		1.5	8.0		17.4
1	LIC	SR 13	RT	ALLEY	12	14	22	24.0	1.8		1.5	1.0		24.0
1	LIC	SR 13	LT	ALLEY	10	22	30	28.9	2.2		1.5	1.3		28.9
1	LIC	SR 13	RT	SPRING ST.	10	22	42	35.6	2.7		1.5	1.5		35.6
1	LIC	SR 13	LT	ALLEY	10	21	28	27.3	2.1		1.5	1.2		27.3
1	LIC	SR 13	LT	ALLEY	14	11	28	30.4	2.3		1.5	1.3		30.4
1	LIC	SR 13	RT	ALLEY	13	14	21	25.3	1.9		1.5	1.1		25,3
1	LIC	SR 13	LT	ALLEY	12	15	22	24.7	1.9		1.5	1.1		24.7
1	LIC	SR 13	RT	ALLEY	12	12	22	22.7	1.8		1.5	1.0		22.7
1	LIC	SR 13	LT	ALLEY	12	14	22	24.0	1.8		1.5	1.0		24.0
1	LIC	SR 13	RT	CHURCH ST.	15	28	54	68.4	5.2		1.5	2.9		68.4
1	LIC	SR 13	LT	ALLEY	15	12	15	22.5	1.7		1.5	1.0		22.5
1	LIC	SR 13	LT	ALLEY	13	13	27	28.9	2.2		1.5	1.3		28.9
1	LIC	SR 13	RT	MAPLE AVE.	14	24	44	52.9	4.0	· · · · · · · · · · · · · · · · · · ·	1.5	2.3		52.9
1	LIC	SR 13	RT	NORTH ST.	23	28	63	116.3	8.8		1.5	4.9		116.3
1	LIC	SR 13	RT	CRESTVIEW DR.	20	17	37	60.0	4.5		1.5	2.5		60.0
1	LIC	SR 13	LT	KIRKPATRICK RD.	75	12	96	450.0	33.8		1.5			450.0
1	LIC	SR 13		TOTALS CARRIED TO SHEET 19			Ī		96.4			54.2		1274.2

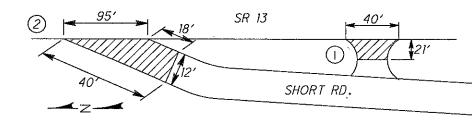
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# EXTRA AREAS



-	INTE	RSECTI	ONS						•		_ <del></del>	
						PAVE	MENT D	ATA				
1					IN.	TERSECTIO	NS		407	7 44	2 ASPHALT CONCRE	TE
0 C A	C	R	SIDE	DESCRIPTION	DETAIL DIMENSION			AREA	TACK COAT @ 0.075	D E	SURFACE COURSE 12.5 MM, TYPEA	
1 1 0	U N T	O U T			Α	В	С		GAL./ SQ. YD.	т Н	(448), A.P.P.	
N	Y	E			FT	FT	FT	SQ. YD.	GAL.	IN.	CU. YD.	
j												
2	KNO	SR 13	LT	VANCE RD CR 29	30	22	64	143.4	10.8	1.5	6.0	
2	KNO	SR 13	LT	TUMA RD TR 140	58	16	89	338.4	25.4	1.5	14.1	
2	KNO	SR 13	RT	A RRINGTON RD CR 30	30	20	71	151.7	11.4	1.5	6.4	
2	KNO	SR 13	LT	SHORT RD TR 427 (DETAIL 1)	21	16	40	65.4	5.0	1.5	2.8	
2	KNO	SR 13	LT	SHORT RD TR 427 (DETAIL 2)	SEE	DETAIL AB	OVE	173.0	13.0	1.5	7.3	
2	KNO	SR 13	RT	SHORT RD TR 427	26	16	49	93.9	7.1	1.5	4.0	
2	KNO	SR 13	LT	TULLOSS RD TR 138	35	22	62	163.4	12.3	1.5	6.9	
2	KNO	SR 13	RT	TULLOSS RD TR 138	30	22	70	153.4	11.6	1.5	6.4	
2	KNO	SR 13	RT	MORGAN CENTER RD CR 28	85	20	140	755.6	56.7	1.5	31.5	
2	KNO	SR 13	RT	SYCAMORE RD CR 27	35	20	87	208.1	15.7	1.5	8.7	
2	KNO	SR 13	LT	SYCAMORE RD CR 27	30	20	83	171.7	12.9	1.5	7.2	
2	KNO	SR 13	LT	ESTHER LN TR 137	20	11	33	48.9	3.7	1.5	2.1	
2	KNO	SR 13	RT	ROAD AT BOWLING CENTER	35	18	93	215.9	16.2	1.5	9.0	
2	KNO	SR 13	RT	MURRAY RD CR 64	60	19	116	450.0	33.8	1.5	18.8	
2	KNO	SR 13	LT	RANGE LINE RD CR 57	55	22	116	421.7	31.7	1.5	17.6	
2	KNO	SR 13	RT	BROOKWOOD RD TR 611	30	16	68	140.0	10.5	1.5	5.9	
2	KNO	SR 13	LT	WINNEY DR.	40	19	75	208.9	15.7	1.5	8.8	
2	KNO	SR 13	RT	SOUTHRIDGE RD.	30	19	70	148.4	11.2	1.5	6.2	
2	KNO	SR 13	RT	CLUB DR TR 610	40	20	83	228.9	17.2	1.5	9.6	
2	KNO	SR 13	RT	MILLSTONE LN.	25	22	73	132.0	9.9	1.5	5.5	
2	KNO	SR 13	RT	LA KEVIEW DR.	25	16	70	119.5	9.0	1.5	5.0	
2	KNO	SR 13	RT	GLEN RD TR 257	30	16	82	163.4	12.3	1.5	6.9	
2	KNO	SR 13	TC	OTALS CARRIED TO SHEET 19					353.1		196.7	
4	KNO	SR 13	LT	BLACKJACK RD SR 661	40	26	100	280,0	21.0	1.5	11.7	
4	KNO	SR 13	LT	INDUSTRIAL PARK DR.	30	30	100	216.7	16.3	1.5	9.1	
4	KNO	SR 13	LT	PROGRESS DR.	37	28	105	273.4	20.6	1.5	11.4	
4	KNO	SR 13	RT	DIXIE DR.	40	20	92	248.9	18.7	1.5	10.4	
4	KNO	SR 13	LT	GREENWAY DR.	30	16	60	126.7	9.6	1.5	5.3	
4	KNO	SR 13	LT	MELICK ST.	30	20	78	163.4	12.3	1.5	6.9	
4	KNO	SR 13	TC	OTALS CARRIED TO SHEET 21	·				98.5		54.8	

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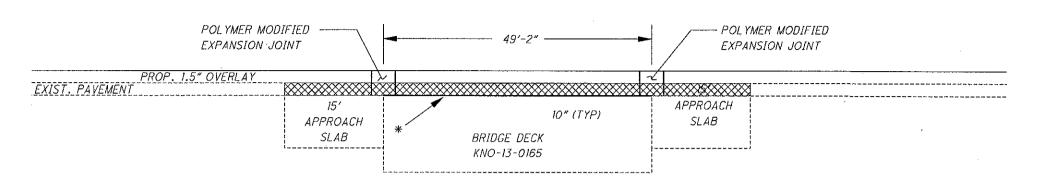
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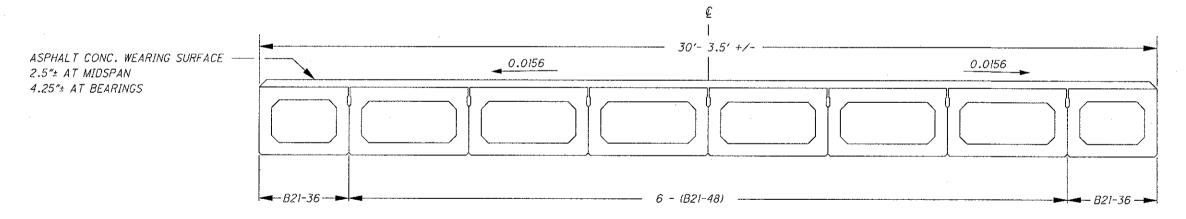
## DETAIL I



NOTE: CARE SHALL BE TAKEN WHEN REMOVING ASPHALT CONCRETE SO AS NOT TO DAMAGE BOX BEAMS. ASPHALT DEPTH ON DECK VARIES FROM 2.5" TO 4.25" IN DEPTH. ANY DAMAGE THAT OCCURS TO THE EXISTING BOX BEAMS SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE AS DIRECTED BY THE ENGINEER, AS PER CMS 519 OR SS 843.

- 202 WEARING COURSE REMOVED

\* - TYPE D WATERPROOFING SHALL BE STOPPED 10" (INCHES) FROM EACH APPROACH SLAB TO ALLOW FOR INSTALLATION OF A POLYMER MODIFIED EXPANSION JOINT SYSTEM.



TRANSVERSE SECTION

ITEM 202 - WEARING COURSE REMOVED
[2(15' X (22'+6') + (51' X 30)] / 9 = 263.3 SQ.YD.

ITEM 512 - TYPE D WATERPROOFING 30.29' x (49.17'-2(10/12)) = 1438.9 SQ. FT. 1438.9 SQ. FT./9 = 159.9 SQ. YD. ITEM 518 - SPECIAL - STEEL DRIP STRIP (2(49.17' + 8(1.5'))) = 122.3 FT

**QUANTITIES CARRIED TO SHEET 12 OF 22** 

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NO STRUCTURES

#### LOCATION 2

KNO-13-0165: WEARING COURSE REMOVED, INSTALL
WATERPROOFING AND POLYMER MODIFIED EXPANSION
JOINT, RESURFACE (SURFACE COURSE QUANTITIES
INCLUDED IN ROADWAY CALCULATIONS ON SHEETS 7 & 8).

KNO-13-0334: PAVE OVER, SAME AS ROADWAY (RESURFACING QUANTITIES INCLUDED WITH ROADWAY CALCULATIONS ON SHEETS 7 & 8).

KNO-13-0824: PAVE OVER, SAME AS ROADWAY (RESURFACING QUANTITIES INCLUDED WITH ROADWAY CALCULATIONS ON SHEETS 7 & 8).

## LOCATION 3

NO STRUCTURES

# LOCATION 4

KNO-13-0843: PAVE OVER, SAME AS ROADWAY (RESURFACING OUANTITES INCLUDED WITH ROADWAY CALCULATIONS ON SHEETS 7 & 8).

#### **NOTES**

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D. THERE ARE NO ROADWAY DEDUCTIONS FOR STRUCTURES.

2). THERE IS NO INTERMEDIATE COURSE INCLUDED IN THE PLANS FOR STRUCTURE LIC-13-0165. ONCE THE CONTRACTOR HAS APPLIED THE NEW TYPE D WATERPROOFING, HE/SHE SHALL RESURFACE THE STRUCTURE USING ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448) AS PER PLAN IN MULTIPLE LIFTS. THE MAXIMUM LIFT THICKNESS SHALL BE 2-1/2 INCHES. THE 1-1/2 INCH OVERLAY SHALL BE PLACED IN A CONTINUOUS OPERATION AND SHALL NOT BE INCLUDED IN THE BRIDGE WORK.

## ITEM 202 WEARING COURSE REMOVED, AS PER PLAN

THE CONTRACTOR SHALL TAKE SPECIAL CARE IN REMOVING THE ASPHALT CONCRETE FROM THE TOP OF THE BOX BEAMS, SO AS NOT DAMAGE THE BOX BEAMS. ANY DAMAGE DONE TO THE EXISTING BOX BEAMS BY THE CONTRACTOR SHALL BE REPAIRED AT HIS/HER EXPENSE. DUE TO THE CAMBER IN THE BOX BEAMS, THE ASPHALT IS (13/47) THICKER AT THE BRIDGE ABUTMENTS. AFTER THE ASPHALT IS REMOVED, THE CONTRACTOR SHALL REMOVE THE EXISTING TYPE D WATERPROOFING AND STEEL DRIP STRIP. ALL LABOR, TOOLS, MATERIALS AND INCIDENTALS NECESSARY TO REMOVE THE ASPHALT CONCRETE, TYPE D WATERPROOFING AND STEEL DRIP STRIP SHALL BE INCLUDED FOR PAYMENT IN ITEM 202 WEARING COURSE REMOVED, AS PER PLAN.

1						BRIDGE D	<b>ECK DATA</b>						
L					202			407		442 ASPHALT	CONCRETE	512	SPECIAL
O C A T I O	COUNTY, ROUTE, BRIDGE NO.	LENGTH (BRIDGE LIMITS) LIN.FT.	WIDTH LIN. FT.	AREA	WEARING COURSE REMOVED, AP.P.	DESCRIPTION	TACK COAT @ 0.075 GAL./SQ.YD.	TACK COAT FOR INTERMEDIATE COURSE @ 0.05 GAL./SQ. YD.	DEPTH	SURFACE COURSE, 12.5 mm, TYPE A (448), AP.P.		TYPE D WATER- PROOFING	STEEL DRIP STRIP
N				SQ. YD.	SQ. YD.		GAL.	GAL.	INCHES			SQ. YD.	FT.
2	KNO-13-0165	49.2	30.3	165.7	263.3	DETAIL 1 (SHEET 11)	12.5		3.375	15.6		159.9	122.3
	KNO-13-0334		NO ADDITI	ONAL WORK									
	KNO-13-0824		NO ADDITI	ONAL WORK									
4	KNO-13-0843		NO ADDIT	L IONAL WORK	(								
QI	JANTITES CARRIED TO SHEET 19				263.3		12.5			15.6		159.9	122.3
											1		

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#### GENERAL NOTES AND DETAILS FOR POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM

ITEM SPECIAL - POLYMER-MODIFIED ASPHALT EXPANSION JOINT SYSTEM

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

PRODUCT NAME	SUPPLIER	ADDRESS	PHONE NO.
THORMA-JOINT	DYNAMIC SURFACE APPLICATIONS, LTD	373 VILLAGE RD. PENNSDALE, PA 17756	(570)546~6041
MATRIX 502	CRAFCO INC.	420 N. ROOSEVELT AVE. CHANDLER, AZ 85226	(800)528-8242
EXPANDEX JOINT SYSTEM	WATSON-BOWMAN ACME	95 PINEVIEW DR. AMHERST, NY 14228	(716)691-7566
APJ ASPHALTIC PLUG EXPANSION JOINT	WYOMING EQUIPMENT SALES	281 SIXTH STREET P.O. BOX 287 WEST WYOMING, PA 18644	(570)693-2810

#### MATERIALS:

BRIDGING PLATE:

MILD STEEL 18" OR 14" THICK PLATE, 8" WIDE OR 18 GAUGE ALUMINUM, 8" WIDE.

#### BINDER:

TYPF: POLYMER MODIFIED ASPHALT SOFTENING POINT: 180 DEGREES F. MIN. 3 mm. MAX. AT 140 DEGREES F. FLOW: PENETRATION: 9 mm. MAX. AT 77 DEGREES F. 1 mm. MIN AT O DEGREES F. ASTM D 3407 DUCTILITY: 40 cm. MIN. ASTM D 113 RESILIENCE: 60% MIN. AT 77 DEGREES F. TENSILE ADHESION: 700% MIN. SPECIFIC GRAVITY: 1.10 \* 0.05

#### AGGREGATE:

TYPE:

CRUSHED, DOUBLE WASHED, AND DRIED GRANITE OR BASALT

350 - 390 DEGREES F.

GRADATION:

POURING TEMP:

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

#### BACKER ROD:

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

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

#### INSTALLATION PROCEDURES:

#### SAWING AND SURFACE PREPARATION:

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

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

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

THE EXPANSION JOINT GAP IS TO BE SEALED AND A BRIDGING PLATE CENTERED ALONG IT. A VERY NARROW GAP WILL BE SEALED BY POURING HOT BINDER INTO THE GAP. GAPS OF 1/6 " OR MORE WILL FIRST BE FILLED WITH AN APPROPRIATELY SIZED BACKER ROD. THE BACKER ROD WILL BE INSTALLED SO THAT IT IS BETWEEN 1/6 " AND 11/6 " BELOW THE TOP OF THE EXISTING GAP. THE GAP WILL THEN BE FILLED WITH BINDER.

#### BOND BREAKER:

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

#### BINDER COAT:

SEAL ALL PREPARED, EXPOSED SURFACES OF THE JOINT WITH BINDER. POUR THE HOT BINDER OVER THE FLOOR AREA OF THE JOINT AND
SPREAD TO COAT ALL EXPOSED SURFACES. THE BINDER WILL BE
A MINIMUM OF 1/32 " THICK ON THE BOTTOM OF THE JOINT CAVITY,
WITH POOLS OF GREATER THICKNESS WHERE SURFACE IRREGULARITIES THE BINDER APPLICATION TEMPERATURE WILL BE BETWEEN 350 AND 390 DEGREES F. THE BINDER WILL NOT BE ALLOWED TO BE HEATED ABOVE 410 DEGREES F. NOR ALLOWED TO EXCEED 390 DEGREES F. FOR MORE THAN I HOUR. A DOUBLE JACKETED OIL MELTER WILL BE USED TO HEAT THE BINDER. THE MELTER WILL BE EQUIPPED WITH A CONTINUOUS AGITATION SYSTEM, TEMPERATURE CONTROLS, AND A CALIBRATED THERMOMETER. ALSO A SYSTEM FOR ACCURATELY MEASURING THE WEIGHTS OF THE BINDER AND THE AGGREGATE WILL BE REQUIRED.

#### BUILD-UP OF JOINT LAYERS:

#### AGGREGATE PREPARATION:

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

#### AGGREGATE PROPORTION AND LAYER THICKNESS:

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

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

#### MAINTENANCE OF TRAFFIC:

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

#### TESTING:

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

#### METHOD OF MEASUREMENT AND BASIS OF PAYMENT:

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

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

DESIGNER TO USE ONLY ONE AND MODIFY SHEET ACCORDINGLY.

OFFICE OF STRUCTURAL ENGINEERING

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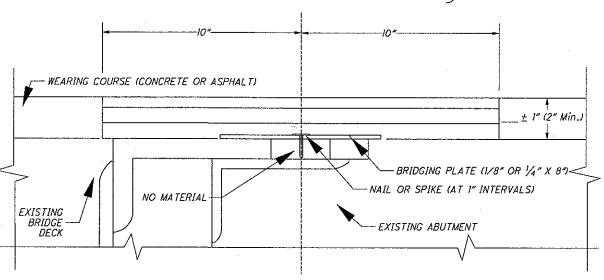
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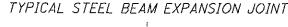
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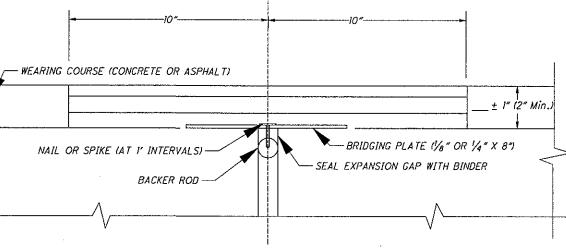
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TYPICAL PRESTRESSED BOX BEAM OR CONCRETE SLAB JOINT

N o N 3 Ţ 3 0 O Ž

DETAIL	SEE STANDARD DRAWING TC-65.11
1	ENTRANCE RAMP
2	EXIT RAMP
3	MULTILANE DIVIDED HIGHWAY
4	4-LANE DIVIDED TO 2-LANE TRANSITION

DETAIL	SEE STARNDARD DRAWING TC-65.11
5	4-LANE UNDIVIDED TO 2-LANE TRANSITION
6	ONE LANE BRIDGE
7	STOP APPROACH
8	THRU APPROACH

DETAIL	SEE STANDARD DRAWING TC-65.11
9	TWO WAY LEFT TURN LANE
10	APPROACH W/LEFT TURN LANE
11	HORIZONTAL CURVE 40' (NOTE 6)
12	HORIZONTAL CURVE 20' (NOTE 6)
GAP	CENTERLINE AT 80' TYP.

SUMMARY

SUB

OCATION

RPM

LIC-13-22.39 KNO-13-0.00

NOTE: DETAIL 12 REQUIRES 12 RPM'S AT 40' SPACING ON EITHER SIDE OF THE 20' SPACING. THEREFORE 6 ADDITIONAL RPM'S HAVE BEEN PROVIDED FOR EITHER SIDE OF THE 20' SPACING IN ORDER TO REDUCE THE SPACING FROM 80' TO 40'.

								RPM L	OCATION	SUB-SUM	MARY			
		÷						CO4 ITTE 84	f	PRISMATIC RE	ETRO-REFLEC	TOR COLOR	s	
00	С		BEGIN LOG	END LOG	LEN	IGTH	D	621 ITEM QUANTITIES	ONE-	-WAY		TWO-WAY		
A T I O	0 U N T	R O U H	POINT SLM	POINT SLM	MILES	LIN.FT.	E T A	RPM	WHITE	YELLOW	YELLOW / YELLOW	WHITE / RED	YELLOW / RED	REMARKS
N	Υ	Е					L	EACH						
	IO DDM'S	FOR LOCAT	ION 1											
	VO REIVI	FOR LOCAT	ION I											
2	KNO	SR 13	0.00	3.72	3.72	19642	GAP	247			247			
2	KNO	SR 13	3.72	3.94	0.22	1162	12	36			36			PC 3.81 TO PT 3.85, L=211 FT, 11 DEGREES
2	KNO	SR 13	3.94	6.94	3	15840	GAP	199			199			
2	KNO	SR 13	6.94	7.00	0.06	317	11	9			9			PC 6.941 TO PT 7.00, L=317 FT, 5 DEGREES
2	KNO	SR 13	7.00	7.37	0.37	1954	GAP	26			26			
2	KNO. KNO	SR 13 SR 13	7.98 8.22	8.16 8.30	0.18 0.08	950 422	GAP GAP	13 7			13 7			
2	KNO	SR 13	8.22	8.30	0.08	1109	GAP	15			15			
	1010		N 2 TOTALS		1		I OAr	552	<u> </u>		552		<u> </u>	
<b>—</b>						<u>*</u>								
3	KNO	SR 13	7.37	7.98	0.61	3221	GAP	42			42			
3	KNO	SR 13	8.16	8.22	0.06	317	GAP	5			5			
3	KNO	SR 13	8.30	8.42	0.12	634	GAP	9			9		·	
3	KNO	SR 13	8.71	9.00	0.29	1531	GAP	21			21			
		LOCATIO	V3 TOTALS	CARRIED T	O SHEET 20	0	1	77			77			
4	KNO	SR 13	8.42	8.50	0.08	422	GAP	7		-	7			
4	KNO	SR 13	9.00	9.16	0.16	845	GAP	12			12			STOP AT MELICK STREET IN MOUNT VERNON
		LOCATIO	V4 TOTALS	CARRIED T	O SHEET 2	1		19	···	]	19			

				ITEM 642	FAST DRY	CENTER LINE S	UB-SUMMA	RY
L			SI	_M	CENTER I	INE QUANTITIES		
0047-02	C O U N T Y	R O U T E	FROM	то	TOTAL MILES	EQUIVALENT SOLID LINE	TOTAL CENTER LINE MILES	REMARKS
1	LIC	SR 13	22.39	23.58	1.19	2.38	2.38	BRIDGE LIC-13-2223 TO KNOX COUNTY LINE
<u> </u>		2111				4,40		E III CE E IO TO LEED TO TOTAL OCCUPATION OC
	LOCATION	11 TOTALS (	CARRIED TO SHEE	T 19			2.38	
2	KNO	SR 13	0.00	7.37	7.37	9.88	9.88	KNOX COUNTY LINE TO MOUNT VERNON SOUTH CORP.
2	KNO	SR 13	7.98	8.16	0.18	0.25	0.25	BOTH LANES OUTSIDE MOUNT VERNON CORP.
2	KNO	SR 13	8.22	8.30	0.08	0,11	0.11	BOTH LANES OUTSIDE MOUNT VERNON CORP.
2	KNO	SR 13	8.50	8.71	0.21	0.29	0.29	BOTH LANES OUTSIDE MOUNT VERNON CORP.
	LOCATION	12 TOTALS (	CARRIED TO SHEE	Т19			10.53	
3	KNO	SR 13	7.37	7.98	0.61	0.82	0.82	SB LANE - MOUNT VERNON / NB LANE - ODOT
3	KNO	SR 13	8.16	8.22	0.06	0.09	0.09	SB LANE - MOUNT VERNON / NB LANE - ODOT
3	KNO	SR 13	8.30	8.42	0.12	0.17	0.17	SB LANE - MOUNT VERNON / NB LANE - ODOT
3	KNO	SR 13	8.71	9.00	0.29	0.39	0.39	NB LANE - MOUNT VERNON / SB LANE - ODOT
	LOCATION	3 TOTALS (	CARRIED TO SHEE	Τ20			1.47	
4	KNO	SR 13	8.42	8.50	0.08	0,11	0.11	BOTH LANES INSIDE MOUNT VERNON CORP.
4	KNO	SR 13	9.00	9.16	0.16	0.22	0.22	BOTH LANES INSIDE MOUNT VERNON CORP.
	LOCATION	14 TOTALS (	CARRIED TO SHEE	T 21			0.33	

						ITEM (	642 FAS	ST DRY	EDGE	LINE S	UB-SU	MMARY	·
L O			SI	_M	WHITE	EDGE LI	NE QUAI	VITIES	YELLOV	V EDGE	LINE QUA	ANTITIES	
C A T I O N	C O U N T Y	R O U T E	FROM	то	TOTAL MILES	HIGH- WAY MILES	RAMP MILES	HIGH- WAY MILES	TOTAL MILES	HIGH- WAY MILES	RAMP MILES	HIGH- WAY MILES	REMARKS
1	LIC	SR 13	22.39	22.55	0.16	0.32							BRIDGE LIC-13-2223 TO SR 62 INTERSECTION
1	LIC	SR 13	23.22	23,58	0.36	0.36							SLM 23.22 TO KNOX COUNTY LINE (NORTH BOUND LANE ONLY)
	LOCATIO	N 1 TOTALS	CARRIEDT	OSHEET 1	9	0.68							
. 2	KNO	SR 13	0.00	7.37	7.37	14.74	·						KNOX COUNTY LINE TO MOUNT VERNON SOUTH CORP.
2	KNO	SR 13	7.98	8.16	0.18	0.36							BOTH LANES OUTSIDE MOUNT VERNON CORP.
2	KNO	SR 13	8.22	8.30	0.08	0.16							BOTH LANES OUTSIDE MOUNT VERNON CORP.
			8.50	8.71	0.21	0.42	-						BOTH LANES OUTSIDE MOUNT VERNON CORP.
	LOCATIO	N 2 TOTALS	CARRED T	O SHEET 1	9	15.68							
3	KNO	SR 13	7.37	7.98	0.61	1.22							SB LANE - MOUNT VERNON / NB LANE - ODOT
3	KNO	SR 13	8.16	8.22	0,06	0.12							SB LANE - MOUNT VERNON / NB LANE - ODOT
3	KNO	SR 13	8.30	8.42	0.12	0.24							SB LANE - MOUNT VERNON / NB LANE - ODOT
3	KNO	SR 13	8.71	9.00	0.29	0.58							NB LANE - MOUNT VERNON / SB LANE - ODOT
~~~~	LOCATIO	N 3 TOTALS	CARRIED T	OSHEET 2	0	2.16							
4	KNO	SR 13	8,42	8.50	0.08	0.16							BOTH LANES INSIDE MOUNT VERNON CORP.
4	KNO	SR 13	9.00	9.16	0.16	0.32						:	BOTH LANES INSIDE MOUNT VERNON CORP.
	LOCATIO	N 4 TOTALS	CARRIED T	O SHEET 2	1	0.48							
												T	

L0i300†cli.dgn Date 05/18/07

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CENTER/EDGE LINE SUB-SUMMARY

LIC-13-22.55 KNO-13-0.00

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# PAVEMENT MARKING SUB-SUMMARY

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	<del>,</del>	· · · · · · · · · · · · · · · · · · ·		<u> </u>	,				<del>,</del>		PLASTIC					,	
L 0 C	С				STOP LINE	12" CROSS WALK	I .	RD ON MENT	SYN	IOOL IBOL KING		LAN	IE ARRO	)WS		RAILROAD	
A	0	R	DESCRIPTION	SIDE	Α	LINES	ONLY	ONLY	ONLY	ONLY	сомві	NOTTAN		TURN		SYMBOL MARKING	REMARKS
	N N	U			24"	WHITE	72"	96"	72"	96"	LT/TH	RТ/ТН	LT	RT	TH		I
0 N	T Y	T E			FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	I
1	LIC	SR 13	BLACKSNAKE RD.	RT	17											,	PLACE 21' FROM CL OF SR 13
1	LIC	SR 13	SR 13/US 62 INTERSECTION	a.	34									ì			PLACE AS DIRECTE (17' SR 13 NB & 17' SR 13 SB)
1	LIC	SR 13	SR 13 /MILL ST. INTERSECTION	a.	31												PLACE AS DIRECTED (15.5' SR 13 NB & 15.5' SR 13 SB), CROSSWALKS ELIMINATED
1	LIC	SR 13	MILL ST.	RT		62											PLACE AS DIRECTED
1	LIC	SR 13	ALLEY	RT		26											PLACE AS DIRECTED
1	LIC	SR 13	ALLEY	LT		30		·									PLACE AS DIRECTED
1	LIC	SR 13	ALLEY	LT		16											PLACE AS DIRECTED
1	LIC	SR 13	ALLEY	RT		28											PLACE AS DIRECTED
11	LIC	SR 13	SR 13/ALLEY INTERSECTION (SLM 22.82)	a.		62											PLACE AS DIRECTED, CROSSWALK SOUTH SIDE OF INTER, ONLY
1	LIC	SR 13	ALLEY	LT		44											PLACE AS DIRECTED
111	LIC	SR 13	SPRING ST.	RT		44											PLACE AS DIRECTED
1	LIC	SR 13	SR 13/SPRING ST. INTERSECTION	a_	32	62											STOP LINE 16' EACH LANE, CROSSWALK SOUTH SIDE OF INTER. ONLY
1	LIC	SR 13	ALLEY	LT		42								,			PLACE AS DIRECTED
1	LIC	SR 13	ALLEY	LT		28											PLACE AS DIRECTED
1	LIC	SR 13	ALLEY	RT		24											PLACE AS DIRECTED
1	LIC	SR 13	ALLEY	LT		30											PLACE AS DIRECTED
1	LIC	SR 13	ALLEY	RT		24											PLACE AS DIRECTED
1	LIC	SR 13	ALLEY	LT		24					<u> </u>						PLACE AS DIRECTED
1	LIC	SR 13	CHURCH ST.	RT		62											PLACE AS DIRECTED
1	LIC	SR 13	ALLEY	LT		24	<u> </u>										PLACE AS DIRECTED
11	LIC	SR 13	ALLEY	LT		26											PLACE AS DIRECTED
1	LIC	SR 13	MAPLE AVE.	RT		56											PLACE AS DIRECTED
11	LIC	SR 13	NORTH ST.	RT	18												PLACE 19' FROM CL OF SR 13
11	LIC	SR 13	CRESTVIEW DR.	RT	11												PLACE 18' FROM CL OF SR 13
1	LIC	SR 13	KIRKPATRICK RD.	LT	35						<u> </u>						PLACE 20" FROM CL OF SR 13
	····	LOCA	ATION 1 TOTALS CARRIED TO SHEET 19		178	714											

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# PAVEMENT MARKING SUB-SUMMARY

									644 Tr	HERMOP	LASTIC						
L O					STOP LINE	12" CROSS WALK	1	RD ON MENT	SYM	IOOL MBOL KING		LAN	IE ARRO	)WS		RAILROAD	
A	0	R	DESCRIPTION	SIDE	Α	LINES	ONLY	ONLY	ONLY	ONLY	COMBI	NATION		TURN		SYMBOL MARKING	REMARKS
T I	U N	U			24"	WHITE	72"	96"	72"	96"	LT/TH	RT/TH	LT	RT	TH		
0 N	Y	T E			FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	
2	KNO	SR 13	VANCE RD CR 29	LT	12	<del> </del>				<u> </u>		ļ					PLACE AS DIRECTED
2	KNO	SR 13	TUMA RD TR 140	LT	10												PLACE AS DIRECTED
2	KNO	SR 13	ARRINGTON RD CR 30	RT	12	ļ											PLACE AS DIRECTED
2	KNO	SR 13	SHORT RD TR 427	LT	14						<u>.</u>						PLACE AS DIRECTED
2	KNO	SR 13	SHORT RD TR 427	RT	14												PLACE AS DIRECTED
2	KNO	SR 13	TULLOSS RD TR 138	LT	22												PLACE 19' FROM CL SR 13
2	KNO	SR 13	RR CROSSING @ SLM 3.89 CSX	a_												2	PLACE AS DIRECTED
2	KNO	SR 13	TULLOSS RD TR 138	RT	19												PLACE 19' FROM CL SR 13
2	KNO	SR 13	MORGAN CENTER RD CR 28	RT	20												PLACE 26' FROM CL SR 13
2	KNO	SR 13	SYCAMORE RD CR 27	RT	20									<u> </u>			PLACE 20' FROM CL SR 13
2 .	KNO	SR 13	SY CAMORE RD CR 27	LT	18												PLACE 20' FROM CL SR 13
2	KNO	SR 13	ESTHER LN TR 137	LT	12												PLACE 17' FROM CL SR 13
2	KNO	SR 13	ROAD AT BOWLING CENTER	RT	20												PLACE 21' FROM CL. SR 13
2	KNO	SR 13	MURRAY RD CR 64	RT	24												PLACE 24' FROM CL SR 13
2	KNO	SR 13	RANGE LINE RD CR 57	LT	30												PLACE 20' FROM CL SR 13
2	KNO	SR 13	BROOKWOOD RD TR 611	RT	14				:								PLACE 20' FROM CL SR 13
2	KNO	SR 13	WINNEY DR.	LT	16												PLACE 18' FROM CL SR 13
2	KNO	SR 13	SOUTHRIDGE RD.	RT	19												PLACE 19' FROM OL SR 13
2	KNO	SR 13	CLUB DR TR 610	RT	20												PLACE 20' FROM CL SR 13
2	KNO	SR 13	MILLSTONE LN.	RT	16												PLACE 17' FROM CL SR 13
2	KNO	SR 13	LAKEVIEW DR.	RT	17												PLACE 19' FROM CL SR 13
2	KNO	SR 13	GLEN RD TR 257	RT	19												PLACE 20' FROM CL SR 13
		LOC	CATION 2 TOTALS CARRIED TO SHEET 19		368											2	
													1				
4	KNO	SR 13	BLACKJACK RD SR 661	LT	27												PLACE 21' FROM CL SR 13
4	KNO	SR 13	INDUSTRIAL PARK DR.	LT	30	1						1	l				PLACE 18' FROM CL SR 13
4	KNO	SR 13	PROGRESS DR.	LT	24						·						PLACE 27' FROM CL, SR 13
4	KNO	SR 13	DIXIE DR.	RT	23								<u> </u>				PLACE 20' FROM CL SR 13
4	KNO	SR 13	GREEWAY DR.	LT	12	†											PLACE 19' FROM CL SR 13
4	KNO	SR 13	MELICK ST.	LT	18	<del> </del>		<del> </del>						<u>†                                     </u>			PLACE 20' FROM CL SR 13
			ON 4 TOTALS CARRIED TO SHEET 21		134		<u> </u>		<del> </del>	<u> </u>	I	1					I be two as I I NOM On Set City

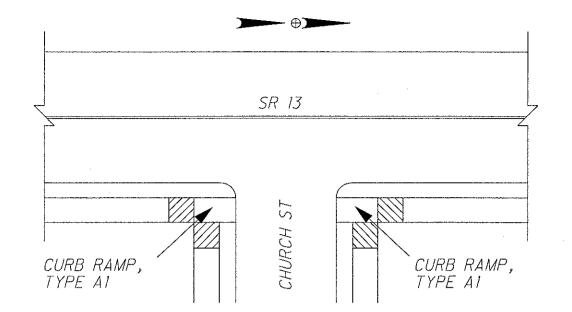
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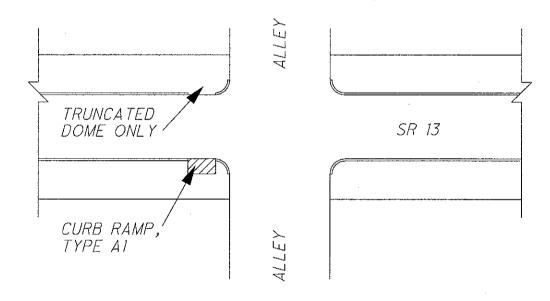
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CURB

LIC-13-22.39 KNO-13-0.00



## SR 13/CHURCH ST. INTERSECTION



# SR 13/ALLEY INTERSECTION (SLM 22.82)



# SR13 @ CHURCH ST (SE CORNER):

ITEM 202 CURB REMOVED: 18 FT ITEM 202 WALK REMOVED: 25 x 2 = 50 SF ITEM 608 CURB RAMP, TYPE A1: 66 SF + 50 SF = 116 SF

THE FOLLOWING AVERAGE QUANTITIES ARE USED FOR CALCULATING REMOVAL OF EXISTING WALK/ CURB AND CURB RAMP INSTALLATION: TYPE A1 RAMPS = 66 SQ.FT. . 18 FT. CURB

## SR13 @ CHURCH ST (NE CORNER):

ITEM 202 CURB REMOVED: 18 FT ITEM 202 WALK REMOVED: 25 x 2 = 50 SF ITEM 608 CURB RAMP, TYPE A1: 66 SF + 50 SF = 116 SF

## SR13 @ ALLEY (SE CORNER):

ITEM 202 CURB REMOVED: 18 ET ITEM 202 WALK REMOVED: 25 = 25 SF ITEM 608 CURB RAMP, TYPE A1: 66 SF + 25 SF = 91 SF

## TOTAL:

ITEM 202 CURB REMOVED: 18 + 18 + 18 = 54 FT ITEM 202 WALK REMOVED: 50 + 50 + 25 = 125 SF ITEM 608 CURB RAMP, TYPE A1: 116 + 116 + 91 = 323 SF

# TRUNCATED DOMES (ONLY):

SR13 & MAPLE ST (SE CORNER) 1 EACH SR13 & ALLEY @ SLM 22.82 (SE CORNER) 1 EACH SR13 & SPRING ST (NE CORNER. SW CORNER AND (2) AT THE SE CORNER) 4 EACH SR13 & MILL ST (NE & SE CORNERS) 2 EACH ITEM 608 TRUNCATED DOME TOTAL = 8 EACH

## TOTALS - LOCATION 1

ITEM 202 CURB REMOVED: 54 FT ITEM 202 WALK REMOVED: 125 SF ITEM 608 CURB RAMP, TYPE A1: 323 SF ITEM 608 TRUNCATED DOMES: 8 EACH

QUANTITIES CARRIED TO THE SHEET 19 OF 22

									(1	80%							IFUR	L.OCA	HONTA	AND LOCA	TION Z	T		CEE
3	4	LOC 6	ATION 7	1 SHEI 8	ET TOT	ALS 15	16	18	3	4	6	OCATI	ON 2 S 8	HEET 10	TOTAL 12	_S 	15	17	ITEM	ITEM EXT. NO.	GRAND TOTALS	UNIT	DESCRIPTION	SEE SHEET NO.
-+					1275				492						-	$\vdash$			202	23500	1767	SQ. YD.	WEARING COURSE REMOVED	1.07
-+									1			<b></b>			264				202	23501	264	SQ. YD.	WEARING COURSE REMOVED, AS PER PLAN	12
								125											202	30000	125	SQ. FT.	WALK REMOVED	
								54											202	32000	54	FT.	CURB REMOVED	
											1								202	53100	1	EACH	MAILBOX REMOVED	
		,								552									202	54000	552	EACH	RAISED PAVEMENT MARKER REMOVED	<u> </u>
_										0.00								 	209	60500	3.00	MILE	LINEAR GRADING	ļ
-+		<u>u-u-u-u-u</u>								3.00						<b></b>			209	60500	3.00	IVILE	LINEAR GRADING	
	230	-			<u> </u>					1515									253	01001	1745	SQ. YD.	PAVEMENT REPAIR, AS PER PLAN	6
十			19965	1033			<u> </u>												254	01001	20998	SQ. YD.	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN	5
									<u> </u>			0000	400=		10				40-	40000	44707	0.11	TARKORAT	<u> </u>
			1498	78	97				ļ		400	8280	1387	354	13	<u> </u>			407 408	10000	11707 409	GAL.	TACK COAT PRIME COAT, AS PER PLAN	6
										<b></b>	409								400	10001	409	GAL.	PRIVIE COAT, AS PER PLAIN	
$\dashv$			833	44	55				50	60		4600	771	197	16			,	442	20001	6626	CU.YD.	A SPHALT CONCRETE SURFACE COURSE, 12.5 mm,	5
$\dashv$																							TYPEA (448), AS PER PLAN	
																								<u> </u>
					ļ				ļ						160	ļ ·		<u> </u>	512	55800	160	<del></del>	TYPE D WATERPROOFING	ļ
					-										123	<u> </u>			SPECIAL	518E22300	123	FT.	STEEL DRIP STRIP	ļ
$\dashv$	6							<u> </u>											604	09000	6	EACH	CATCH BASIN ADJUSTED TO GRADE	
	1							<u> </u>											604	34500	1		MANHOLE ADJUSTED TO GRADE	
													,											<u> </u>
							ļ	323											608	52010	323		CURB RAMP, TYPE A1	
								8								<b> </b>		<u> </u>	608	53000	8	EACH	TRUNCATED DOMES	<del> </del>
ε			ļ						123						<u> </u>				614	12460	141	EACH	WORK ZONE MARKING SIGN	<del> </del>
-	:							1	3										614	13000	3	<del></del>	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	<del> </del>
-			2.38									7.84							614	21400	10.22	<del></del>	WORK ZONE CENTER LINE, CLASS II	
							<u> </u>						1023			ļ			617	10101	1023	CU. YD.	COMPACTED AGGREGATE, AS PER PLAN	2
																552			621	00100	552	EACH	RPM	<u> </u>
	*				<u> </u>							<b> </b>	:											
01						0.68											15.68		642	00100	16.37	MILE	EDGE LINE, TYPE 1	
01						2.38				<u> </u>					<u> </u>	<u> </u>	10.53	<u> </u>	642	00300	12.92	MILE	CENTER LINE, TY PE 1	<u> </u>
			-				170			ļ						<del> </del>		260	644	00500	546		CTODINE	
							178 714					-	*	<del> </del>		<del> </del>		368	644 644	00500 00600	714	FT.	STOP LINE CROSSWALK LINE	
c					<u> </u>		714					<del>                                     </del>		-				<b> </b>	644	00700	50	FT.	TRANSVERSE/DIAGONAL LINE	
										<del>                                     </del>	<del> </del>			<del> </del>	<del> </del>			2	644	01000	2	<del>- </del>	RAILROAD SYMBOL MARKING	
				ļ	<u> </u>	<u> </u>	<u> </u>				1	1		<u> </u>		<u> </u>		<u> </u>	SPECIAL	. 690E50100	11	EACH	MAILBOX SUPPORT SYSTEM, SINGLE	<u> </u>
					<u> </u>											ļ						-		-
		1			Ι.	l		I	H	1	1	1			1	1	1		1	1	1 .	I		1

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			LOCATIO	N 3 SHEET	TOTALS			/ 10% LOC	ITEM	GRAND			SHEET
3	4	6	7	8	14	15		ITEM	EXT. NO.		UNIT	DESCRIPTION	NO.
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						<u> </u>							
										,			
***	7-7								E 4000	77	FAOU	DA (OED DA) (EAST) F MA DI (ED DESMO) (ED	
1-	77	· · · · · · · · · · · · · · · · · · ·						202	54000	77	EACH	RAISED PAVEMENT MARKER REMOVED	
,													
*	200							253	01001	000	00 VD	DAVEMENT DEPAID AS DED DI ANI	
	209							253	01001	209	SQ. YD.	PAVEMENT REPAIR, AS PER PLAN	6
							·						
*:			1111	0.1.0					10000				
		57	1141	210				407 408	10000	1351 57	GAL. GAL.	TACK COAT PRIME COAT, AS PER PLAN	6
7	·		634	117				442	20001	758	CU.YD.	ASPHALT CONCRETE SURFACE COURSE, 12.5 mm,	5
												TYPE A (448), AS PER PLAN	
~ <del></del>							,						
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e-													
				·									
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1e2			1.08			:		614	21400	4.00		WORK ZONE CENTER LINE, CLASS II	
			1.00					014	21400	1.08	FT.	WORK ZUNE CENTER LINE, CLASS II	
				142				617	10101	142	CU. YD.	COMPACTED AGGREGATE, AS PER PLAN	2
					77				00400	777	FACUL		:
,								621	00100	77	EACH	RPM	
v						2.16		642	00100	2.16	MILE	EDGE LINE, TYPE 1	
						1.47		642	00300	1.47	MILE	CENTER LINE, TYPE 1	
·			<u> </u>										
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SEE							PARTICIPATION		LOCATION	LOCATION	OCATION
SEE HEET NO.	DESCRIPTION	UNIT	GRAND TOTALS	ITEM EXT. NO.	ITEM	80% FEDERAL / 20% LOCAL	80% FEDERAL / 10% STATE / 10% LOCAL	80% FEDERAL / 20% STATE	4 SHEET 21	3 SHEET 20	1 & 2 SHEET 19
	WEARING COURSE REMOVED	SQ. YD.	1931	23500	202	164		1767	164		1767
12	WEARING COURSE REMOVED, AS PER PLAN	SQ. YD.	264	23501	202			264			264
	WALK REMOVED	SQ. FT.	125	30000	202			125			125
	CURB REMOVED	FT.	54	32000	202			54	<del>- , , , , , , , , , , , , , , , , , , ,</del>		54
	MAILBOX REMOVED	EACH	1	53100	202			1			1
	RAISED PAVEMENT MARKER REMOVED	EACH	648	54000	202	19	77	552	19	77	552
	LINEAR GRADING	MILE	3.00	60500	209			3.00			3.00
6	PAVEMENT REPAIR, AS PER PLAN	SQ. YD.	2000	01001	253	46	209	1745	46	209	1745
5	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN	SQ. YD.	20998	01001	254			20998			20998
	TACK COAT	GAL.	13479	10000	407	421	1351	11707	421	1351	11707
6	PRIME COAT, AS PER PLAN	GAL.	479	10001	408	13	57	409	13	57	409
	FRINE COAT, AS PER PEAR	GAL.	4/3	10001	400	10	31	409	!	J/	409
5	A SPHALT CONCRETE SURFACE COURSE, 12.5 mm,	CU.YD.	7619	20001	442	235	758	6626	235	758	6626
	TYPEA (448), AS PER PLAN										
	TY PE D WATERPROOFING	SQ, YD.	160	55800	512			160			160
<del></del>	STEEL DRIP STRIP	FT.	123	518E22300	SPECIAL			123			123
	STEEL DRIF STRIF	F I.	120	318E22300	SPECIAL		-	123			120
<del></del>	CATCH BASIN ADJUSTED TO GRADE	EACH	6	09000	604			6			6
	MANHOLE ADJUSTED TO GRADE	EACH	1	34500	604			1			1
	CURB RAMP, TYPE A1	SQ. FT.	323	52010	608			323			323
			8	53000	608			8			8
	TRUNCATED DOMES	EACH	0	55000	000			C .			0
	WORK ZONE MARKING SIGN	EACH	141	12460	614			141			141
	A SPHALT CONCRETE FOR MAINTAINING TRAFFIC	CU,YD.	4	13000	614	1 .		3	1	,	3
	WORK ZONE CENTER LINE, CLASS II	MLE	11.54	21400	614	0.24	1.08	10.22	0.24	1.08	10.22
2	COMPACTED AGGREGATE, AS PER PLAN	CU, YD,	1197	10101	617	32	142	1023	32	142	1023
	RPM	EACH	648	00100	621	19	77	552	19	77	552
· · · · ·	EDGE LINE, TYPE 1	MILE	19.01	00100	642	0.48	2.16	16.37	0.48	2.16	16.37
	· · · · · · · · · · · · · · · · · · ·	MLE	14.72	00300	642	0.33	1.47	12.92	0.48	1.47	12.92
	CENTER LINE, TYPE 1	WILE	14.72	00300	042	0.33	1.47	12.52	0.55	1.47	12.52
	STOP LINE	FT.	680	00500	644	134		546	134		546
	CROSSWALK LINE	FT.	714	00600	644			714			714
	TRANSVERSE/DIAGONAL LINE	FT.	50	00700	644			50			50
		EACH	2	01000	644			2			2
	RAILROAD SYMBOL MARKING		,				i I	i			
	RAILROAD SYMBOL MARKING  MAILBOX SUPPORT SYSTEM, SINGLE	EACH	1	690E50100	SPECIA L			1			1
	MAILBOX SUPPORT SYSTEM, SINGLE	EACH	1					1			1
	MAILBOX SUPPORT SYSTEM, SINGLE  MAINTAINING TRAFFIC		1 LUMP	11000	614			1 LUMP			1
	MAILBOX SUPPORT SYSTEM, SINGLE	EA CH MONTH	1 LUMP 3 LUMP					LUMP 3 LUMP			T

L01300mgs3.dgn Date 06/22/07

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