LOCATION MAP

LATITUDE: 40° 16′ 53″ / LONGITUDE: 81° 52′ 30″

PORTION TO BE IMPROVED______

STATE & FEDERAL ROUTES ______

COUNTY & TOWNSHIP ROADS ._____

OTHER ROADS_____

INTERSTATE HIGHWAY._______

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

END PROJECT
EASTBOUND & WESTBOUND LANES
S.R. 16
S.L.M. 9.84
COSHOCTON COUNTY

MUS-16-11.70 COS-16-0.00

PROJECT DESCRIPTION:

2 LANE AND 4 LANE DIVIDED ASPHALT CONCRETE RESURFACING, AND RELATED WORK ON S.R. 16 IN MUSKINGUM & COSHOCTON COUNTIES

Project Earth Disturbed Area = N/A (Maintenance Project)
Estimated Contractor Earth Disturbed Area = N/A (Maintenance Project)
Notice of Intent Earth Disturbed Area = N/A (Maintenance Project)

CASS, VIRGINIA & JACKSON TOWNSHIPS MUSKINGUM & COSHOCTON COUNTY

BEGIN PROJECT EASBOUND & WESTBOUND LANES S.L.M. II.70 MUSKINGUM COUNTY

ENGINEERS SEAL:

ROADWAY

SIGNED: Menery a. Siter.

DATE: 03/09/2009

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DESIGN DESIGNATION	S.R. 16
Functional Classification	PRINCIPAL ARTERIAL RURAL
Opening Year ADT (2009)	10,500
Design Year ADT (2021)	18,100
Design Hourly Volume (2021)	1,810
Directional Distribution	50%
Trucks (24 Hour B&C)	20%
Design Speed	55 MPH
Legal Speed	55 MPH

DESIGN EXCEPTIONS: NONE

I	UNDERGROUND UTILITIES
Γ	CONTACT BOTH SERVICES
	CALL TWO WORKING DAYS
	BEFORE YOU DIG
	CALL
	(第三年 1-800-362-2764 報意)
	(TOLL FREE)
	OHIO UTILITIES PROTECTION SERVICE
	NON-MEMBERS
	MUST BE CALLED DIRECTLY
-	
	OIL & GAS PRODUCERS PROTECTIVE
1	CEDVICE CALLS 1_200_025_0088

PLAN PREPARED BY: OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 5 PRODUCTION OFFICE

	STAN	IDARD CONST	RUCTION DRA	WINGS	I	EMENTAL FICATIONS
	BP-3.1	10/19/07	TC-65.10	1/21/05	800	4/17/09
			TC-65.11	1/21/05	832	5/05/09
Ì			TC-71.10	1/16/09		
	MT-35.10	4/20/01	TC-72.20	1/21/05		
	MT-95.30	9/5/06	TC-73.10	1/19/01		
	MT-97.10	9/5/06				
	MT-97.12	9/5/06				
-	MT-98.10	10/19/07			.1	ECIAL
	MT-98.11	10/19/07			PRO	VISIONS
	MT-98.20	10/19/07				
Ì	MT-98.22	10/19/07				
	MT-98.28	10/19/07				
	MT-98.29	10/19/07				
	MT-99.20	1/16/09				
	MT-101.90	1/16/09				
2 _	MT-105.10	1/16/09				

2008 SPECIFICATIONS

THE STANDARD 2008 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.

APPROVED William 71 Fileston

DATE <u>03/06/2009</u> DISTRICT DEPUTY DIRECTOR

DATE 5/7/09 DIRECTOR, DEPARTMENT OF

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UNDERCROUND UTILITIES

SERVICE CALL: 1-800-925-0988

UTILITIES

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

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

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER"

UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

FEATHERING

FEATHERING OF THE ASPHALT CONCRETE SHALL BE DONE IN ACCORDANCE WITH SCD DRAWING BP-3.1, 10-19-07.

ITEM 617 COMPACTED AGGREGATE, AS PER PLAN

ALL AGGREGATE SHALL BE 100% CRUSHED LIMESTONE. ALL QUALITY REQUIREMENTS EXCEPT SHALE SHALL 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.

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. DOCUMENTATION OF PAVEMENT MARKING SHALL BE SUPPLIED TO THE ENGINEER BEFORE COMMENCEMENT OF ANY OPERATION WHICH WILL REMOVE/OBLITERATE MARKINGS. ALL NEW DIAGONAL/TRANSVERSE LINES SHALL FOLLOW THE CURRENT SPACING REQUIREMENTS AS DESCRIBED IN SECTION 301-14 OF ODOT'S TRAFFIC ENGINEERING MANUAL (INCLUDING THE MOST CURRENT REVISIONS).

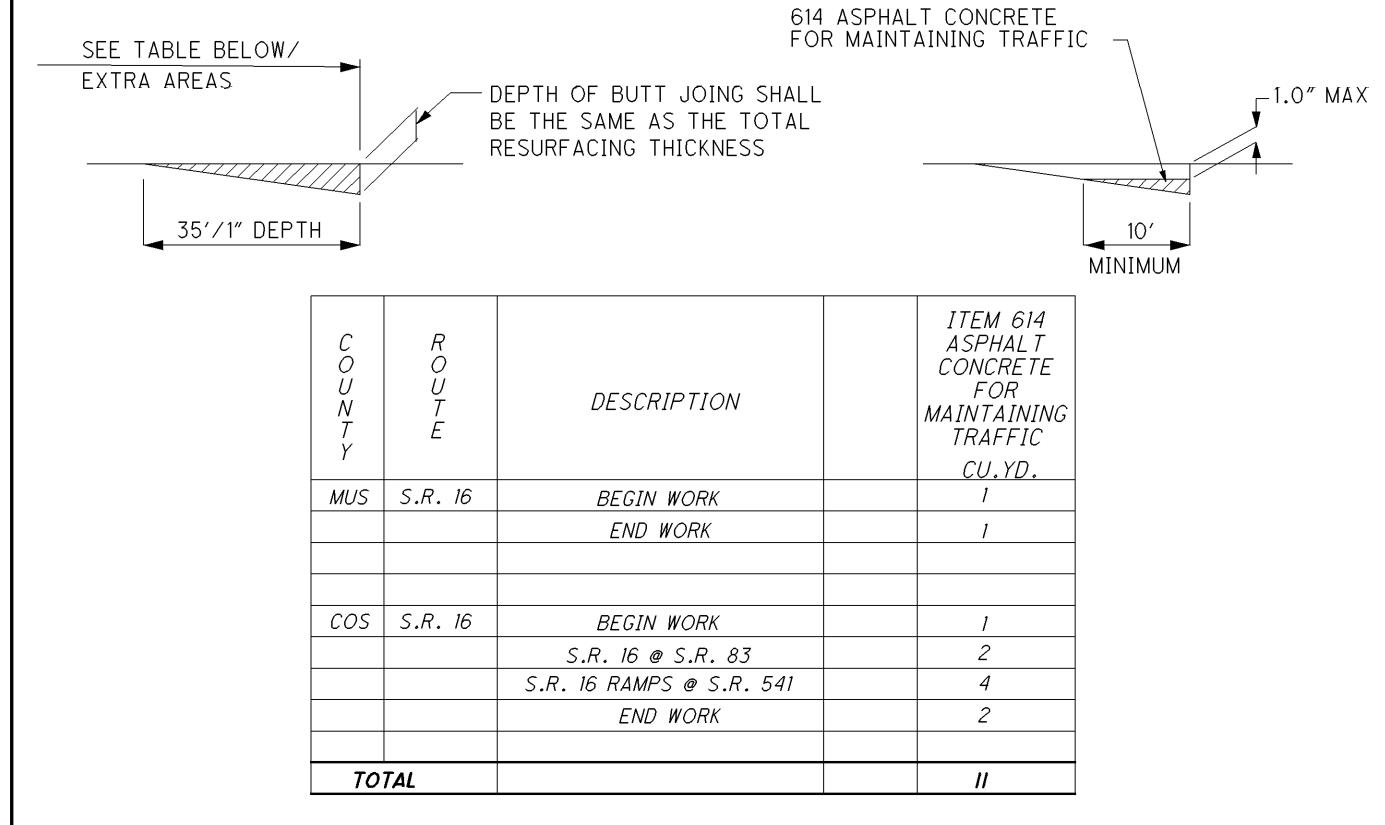
COOPERATION BETWEEN CONTRACTORS

AT ANY TIME, THE DEPARTMENT MAY CONTRACT FOR OTHER WORK ON OR NEAR THIS PROJECT. SEPARATE CONTRACTORS WORKING WITHIN THE LIMITS OF THIS PROJECT SHALL CONDUCT THEIR WORK WITHOUT INTERFERING WITH OR HINDERING THE PROGRESS OR COMPLETION OF THE WORK BEING PERFORMED BY OTHER CONTRACTORS AND SHALL COOPERATE WITH EACH OTHER AS DIRECTED BY THE ENGINEER.



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 ELIMINATED BY IMMEDIATELY PLACING THE PROPOSED INTERMEDIATE COURSE TO WITHIN 1.0" OF EXISTING PAVEMENT ELEVATION AFTER PLANING OPERATION OR BY PLACING AN ASPHALT CONCRETE WEDGE. BUTT JOINTS SHALL BE AS PER SCD BP-3.1, 10-19-07. GRINDING FOR BUTT JOINTS SHALL BE INCLUDED WITH PAVEMENT PLANING QUANTITIES.



ITEM 621 RPM REMOVED

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.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 621 RPM REMOVED 1,206 EACH

ITEM 254, PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN

DEPTH OF PLANING SHALL BE 3.25" FULL WIDTH OF PAVEMENT AND PAVED SHOULDERS, UNLESS OTHERWISE SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

RAMPS SHALL BE PLANED 2" IN DEPTH. THE ROADWAY SHALL BE PLANED SUCH THAT POSITIVE DRAINAGE IS CREATED FROM THE LANE LINE TO THE EDGE OF PAVEMENT IN TANGENT SECTIONS AND SHALL FOLLOW EXISTING SUPERELEVATIONS WHERE APPLICABLE. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE PAVEMENT IS PLANED TO A DEPTH THAT DOES NOT LEAVE A "SLIVER" OF THIN ASPHALT (LESS THAN OR EQUAL TO ONE HALF INCH). IF SUCH "SLIVERS" ARE OBVIOUS AFTER THE PAVEMENT IS MILLED AND BROOMED, ADDITIONAL MILLING SHALL BE PERFORMED TO REMOVE SAID "SLIVERS" AT THE CONTRACTOR'S OWN EXPENSE. ALL REQUIREMENTS OF ITEM 254 SHALL APPLY.

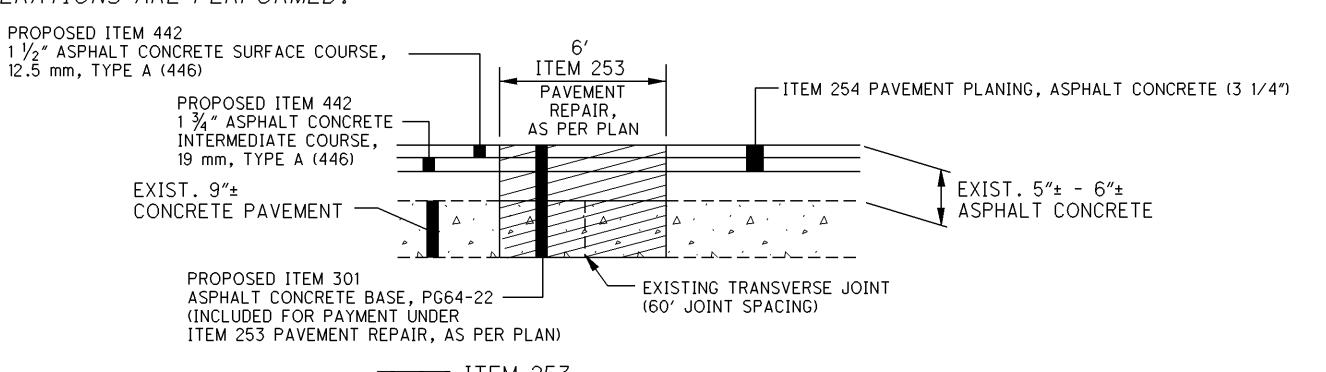
ITEM 253 PAVEMENT REPAIR, AS PER PLAN

S.R. 16 - COSHOCTON COUNTY - S.L.M. 0.00 TO SL.M. 5.00 (2-LANES) S.R. 16 - COSHOCTON COUNTY - S.L.M. 7.36 TO S.L.M. 9.84 (4-LANES)

THIS ITEM SHALL CONSIST OF REMOVING THE EXISTING CONCRETE PAVEMENT AND EXISTING ASPHALT AT THE TRANSVERSE JOINTS ON S.R. 16 IN THE WESTBOUND AND EASTBOUND LANES, AS DETAILED BELOW.

THE INTENT IS TO REPLACE THE DAMAGED CONCRETE AND TO CREATE A SMOOTH SURFACE BEFORE PLACING THE PROPOSED ASPHALT COURSES. THE REPLACEMENT MATERIAL WILL BE ITEM 301 ASPHALT CONCRETE BASE, PG64-22 AND SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 253 PAVEMENT REPAIR, AS PER PLAN, AT THE DIRECTION OF THE PROJECT ENGINEER.

THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL REMOVED
MATERIALS AS PER ITEM 202 AND WILL BE INCLUDED FOR PAYMENT UNDER ITEM 253 PAVEMENT REPAIR, AS PER PLAN.
ITEM 253 PAVEMENT REPAIR, AS PER PLAN SHALL BE PERFORMED BEFORE THE PAVEMENT PLANING AND RESURFACING
OPERATIONS ARE PERFORMED.



PAVEMENT REPAIR, AS PER PLAN

CALCULATIONS:

(2-LANE)- 24' x 6' / 9 = 16 SY/JOINT & (4-LANE) - 48' x 6' / 9 = 32 SY/JOINT (2-LANES SECTION) = 440 JOINTS x 16 S.Y./JOINT = 7,040 S.Y. (4-LANE SECTION) = 220 JOINTS x 32 S.Y./JOINT X 2 E.B. & W.B. LANES = 14,080 S.Y. TOTAL 21,120 S.Y.

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

ITEM 253 PAVEMENT REPAIR, AS PER PLAN 21,120 SQ. YD.

ITEM 632 DETECTOR LOOP, AS PER PLAN

ALL DETECTOR LOOPS SHALL BE CUT INTO THE PLANED SURFACE OR THE PROPOSED INTERMEDIATE COURSE AT A DEPTH OF 4" FROM THE PROPOSED SURFACE ELEVATION. IF THE CONTRACTOR SO CHOOSES, THEY MAY CUT THE DETECTOR LOOPS INTO THE EXISTING ASPHALT SURFACE COURSE BEFORE PLANING BUT SHALL MAKE SURE THE MATERIAL USED TO FILL THE SAW CUT IS LEFT FAR ENOUGH BELOW THE SURFACE COURSE THAT IT WILL NOT BE DISTURBED DURING THE PLANING OPERATION. THE CONTRACTOR SHALL TEST ALL LEAD-IN CABLES PRIOR TO MAKING FINAL SPLICE. PLACEMENT SHALL BE AS PER SPECIFICATION 632.10. FINAL LOCATIONS, SIZE AND ORIENTATION WILL BE VERIFIED IN THE FIELD AT THE TIME OF CONSTRUCTION. ALL MATERIALS, LABOR, TOOLS, EQUIPMENT, TRAFFIC CONTROL AND INCIDENTALS NECESSARY TO PERFORM THE WORK DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 632 DETECTOR LOOP, AS PER PLAN.

ITEM 632 DETECTOR LOOP, AS PER PLAN

6 EACH

LOCATIONS:

S.R. 16 AT EXISTING AUTOMATED TRAFFIC RECORDER 4 EACH S.R. 16 @ S.R. 83 2 EACH



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

S.R. 16 - 80,630 FT.

ITEM 614. PORTABLE CHANGEABLE MESSEGE SIGNS. AS PER PLAN

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

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

THE PROBABLE PCMS LOCATIONS AND WORK LIMITS FOR THOSE LOCATIONS ARE SHOWN ON SHEET(S) OF THE PLAN. PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL. AT THE DIRECTION OF THE ENGINEER. RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME. THE PCMS SHALL BE TURNED.

FACING AWAY FROM ALL TRAFFIC, AND SHALL DISPLAY ONE OR MORE TYPE G YELLOW RETROREFLECTIVE SHEETING SURFACES OF 9-INCH BY 15-INCH MINIMUM SIZE FACING TRAFFIC.

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

ITEM 614. PORTABLE CHANGEABLE MESSEGE SIGNS, AS PER PLAN(cont'd)

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

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

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

(THE PCMS SHALL CONTAIN A CELLULAR TELEPHONE DATA LINK WHICH WILL (IN ACTIVE CELLULAR PHONE AREAS) ALLOW REMOTE SIGN ACTIVATION, MESSAGE CHANGES, MESSAGE ADDITIONS AND REVISIONS TO TIME OF DAY PROGRAMS. THE SYSTEM SHALL ALSO PERMIT VERIFICATION OF CURRENT AND PROGRAMMED MESSAGES. ONE REMOTE DATA INPUT DEVICE (LAPTOP COMPUTER PLUS MODEM OR EQUIVALENT) SHALL BE FURNISHED FOR USE BY THE DISTRICT TRAFFIC ENGINEER, OR EQUIVALENT, AND SHALL BE INSURED AGAINST THEFT.)

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

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

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR. MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

A TOTAL OF 2 PCMS SHALL BE REQUIRED FOR THIS PROJECT.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO GENERAL SUMMARY.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN 10 SIGN-MONTH

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR

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

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED IN THIS NOTE WILL NOT GENERALLY BE PERMITTED AT PROJECT COST UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE ENGINEER. LEOS SHOULD NOT BE USED WHERE THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD) INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR CONTROLLING TRAFFIC FOR THE FOLLOWING TASKS:

 FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS. SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED. IN GENERAL, LEOS SHOULD BE POSITIONED AT THE POINT OF LANE RESTRICTION OR ROAD CLOSURE AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH INTERSECTIONS IN WORK ZONES.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A LIST OF THE APPROPRIATE LAW ENFORCEMENT AGENCY(S), INCLUDING ADDRESS AND TELEPHONE NUMBER.

THE LEO SHOULD REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING THE SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF THE SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHOULD NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF THE SHIFT.

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

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR 200 HOURS

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

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR.

ITEM 614, MAINTAINING TRAFFIC

ONE LANE OF TRAFFIC IN EACH DIRECTION WILL BE MAINTAINED ON S.R. 16 AT ALL TIMES. EXCEPT AS NOTED BELOW:

LANE CLOSURES FOR THE PURPOSE OF PLACING DRUMS IN ORDER FOR THE CONTRACTOR TO COMPLETE THE WORK AS DESCRIBED IN THE PLANS WILL BE PERMITTED AS FOLLOWS:

LANE CLOSURES WILL ONLY BE IMPLEMENTED AT THE TIMES LISTED ON THE OHIO DEPARTMENT OF TRANSPORTATION'S WEB SITE, "PERMITTED LANE CLOSURE TIMES" SECTION, LOCATED AT THE ADDRESS SHOWN BELOW:

http://plcm.dot.state.oh.us//plcm/plcm_web.jsp

THE PERMITTED CLOSURE TIMES LISTED ON THE WEBSITE. 14 CALENDAR DAYS PRIOR TO THE BID LETTING DATE WILL BE IN EFFECT FOR THIS PROJECT.

NO WORK WITHIN ACTIVE TRAVEL LANES OR WHICH WILL SLOW TRAFFIC IS PERMITTED AT ANY OTHER TIMES.

WHEN NECESSARY. LANE CLOSURES WILL BE ACCOMPLISHED IN ACCORDANCE WITH THE STANDARD DRAWINGS.

IT IS THE INTENT TO RESTRICT LANE CLOSURES TO THE MINIMUM AMOUNT OF TIME NECESSARY TO PERFORM THE WORK AS DESCRIBED IN THE PLANS. THE CONTRACTOR WILL NOT COMMENCE ANY LANE CLOSURE BEFORE THE HOURS AS SPECIFIED OR COMMENCE ANY CLOSURE AT A TIME WHICH WILL NOT ALLOW COMPLETION OF THE WORK PRIOR TO THE HOURS SPECIFIED.

SHOULD THE CONTRACTOR CLOSE THE LANES BEFORE THE ALLOWABLE TIME AND/OR FAIL TO RE-OPEN ALL LANES TO TRAFFIC. BY THE ALLOWABLE TIME A DISINCENTIVE AS DESIGNATED IN THE LANE VALUE CONTRACT TABLE AND PROPOSAL NOTE 127 WILL BE ASSESSED.

LANE VALUE CONTRACT TABLE - S.R.16

DESCRIPTION OF CRITICAL LANE TO BE MAINTAINED	RESTRICTED TIME PERIOD	TIME UNIT	DISINCENTIVE \$ PER TIME UNIT
S.R.16	ODOT WEB SITE: PERMITTED LANE CLOSURE TIMES	HOUR	\$ 5,000.00

THE CONTRACTOR WILL HAVE ON SITE AND IN WORKING AND OR SUITABLE CONDITION; ALL EQUIPMENT, TOOLS, LABORERS, LEO'S, TRAFFIC CONTROL DEVICES AND INCIDENTALS NECESSARY TO EFFICIENTLY PERFORM THE CLOSURE BEFORE INITIALIZING THE LANE CLOSURE.

THERE SHALL BE NO LANE CLOSURES ON HOLIDAYS OR HOLIDAY WEEKENDS. THE FOLLOWING ARE CONSIDERED HOLIDAYS. MEMORIAL DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING, CHRISTMAS , NEW YEARS, EASTER. NO LANE CLOSURES ARE ALLOWED AFTER 12 NOON ON THE DAY PRECEDING A HOLIDAY. FOR HOLIDAY WEEKENDS NO LANE CLOSURES ARE ALLOWED AFTER 12 NOON ON THE DAY PRECEDING THE HOLIDAY WEEKEND UNTIL 12 PM THE DAY AFTER THE HOLIDAY WEEKEND. EX. HOLIDAY FALLS ON A MONDAY THEN NO LANE CLOSURES FROM 12 NOON ON FRIDAY UNTIL 12 PM TUESDAY

AREAS THAT ARE PLANED SHALL NOT BE OPENED TO TRAFFIC. ALL PLANED AREAS MUST BE INLAID WITH PROPOSED COURSE OF ITEM 442 ASPHALT CONCRETE PRIOR TO BEING OPENED TO TRAFFIC. OVERNIGHT CLOSURES MUST MEET SPECIFICATIONS AS OUTLINED IN THE CONSTRUCTION AND MAINTENANCE OPERATIONS SECTION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, ROADWAY SHALL NOT BE OPENED TO TRAFFIC WITHOUT EITHER THE PERMANENT OR WORK ZONE MARKINGS IN PLACE.

ITEM 614, MAINTAINING TRAFFIC (con't.)

NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRY-WIDE, OR FOR LABOR STRIKES, UNLESS SUCH STRIKES ARE AREA-WIDE. SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED LIQUIDATED DAMAGES IN ACCORDANCE WITH CMS 108.07.

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

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.

ITEM 614 WORK ZONE MARKING SIGNS 120 EACH

ITEM 614, WORK ZONE PAVEMENT MARKINGS

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED TO BE USED AS DIRECTED BY THE ENGINEER TO MAINTAIN TRAFFIC DURING CONSTRUCTION. (QUANTITIES ARE FOR TWO (2) APPLICATIONS)

ITEM 614 WORK ZONE STOP LINE, CLASS III, 642 PAINT

1,808 FT.

ITEM 614 WORK ZONE CHANNELIZING LINE, CLASS III, 642 PAINT

4,042 FT.

ITEM 614 WORK ZONE LANE LINE, CLASS III, 642 PAINT

9.02 MILE

ITEM 614 WORK ZONE CENTER LINE, CLASS III, 642 PAINT

21.84 MILE

ITEM 614. REPLACEMENT DRUM

DRUMS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS. SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT DRUMS SHALL BE NEW.

PAYMENT FOR THE NEW DRUMS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT DRUM. AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF THE DAMAGED DRUM. AND PROVIDING AND MAINTAINING THE REPLACEMENT DRUM IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS FOR THE ORIGINAL DRUM.

AN ESTIMATED QUANTITY OF 20 EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

DROPOFFS IN WORK ZONES

DROPOFFS THAT DEVELOP DURING CONSTRUCTION OPERATIONS AND THAT ARE NOT OTHERWISE PROVIDED FOR IN THE PLANS SHALL BE TREATED AS SHOWN ON STANDARD DRAWING MT-101.90. WHERE THE PLANS DO NOT PROVIDE SPECIFIC ITEMS FOR LABOR, EQUIPMENT, OR MATERIALS TO IMPLEMENT THE DROP-OFF TREATMENTS SPECIFIED, THEY SHALL BE INCLUDED FOR PAYMENT IN THE LUMP SUM BID FOR ITEM 614, MAINTAINING TRAFFIC.

ITEM 614 MODIFIED AMERICAN RECOVERY AND REINVESTMENT ACT (ARRA) SIGN. FREEWAY/EXPRESSWAY

THIS ITEM SHALL CONSIST OF THE FURNISHING AND INSTALLING. AND SUBSEQUENT REMOVAL. OF MODIFIED AMERICAN RECOVERY AND REINVESTMENT ACT (ARRA) SIGNS ON YIELDING POST SUPPORTS.

INSTALL ONE ARRA SIGN NEAR THE BEGINNING OF THE PROJECT IN EACH ROUTE DIRECTION IN A LOCATION AS APPROVED BY THE ENGINEER. THE ARRA SIGN CONSISTS OF ONE 120" X 84" WHITE ON GREEN EXTRUSHEET SIGN WITH PICTOGRAPHS, ONE 120" X 24" BLACK ON ORANGE EXTRUSHEET SIGN, AND ONE 24" X 24" DIAMOND FLAT SHEET SIGN. THE SIGN FABRICATION DETAILS ARE FOUND AT:

HTTP://WWW.DOT.STATE.OH.US/DIVISIONS/HIGHWAYOPS/TRAFFIC/ PAGES/OTEHOMEPAGE.ASPX

INSTALL THE SIGN ON THREE NO. 3 YIELDING POSTS AS PER STANDARD DRAWING TC-41.20, WITH ONE POST ON SIGN CENTERLINE AND ONE POST 12" FROM EACH END. SIGNS IN PROTECTED LOCATIONS MAY BE INSTALLED ON OTHER SUPPORTS AS APPROVED BY THE ENGINEER. USED SIGNS ARE ALLOWED PROVIDED THEY ARE IN A CONDITION ACCEPTABLE TO THE ENGINEER. REMOVE THE ARRA SIGNS AND SUPPORTS AT THE END OF THE PROJECT. REMOVED ARRA SIGNS AND SUPPORTS ARE THE PROPERTY OF THE CONTRACTOR.

PAYMENT SHALL BE INCLUDED IN THE CONTRACT LUMP SUM BID PRICE FOR ITEM 614 MAINTAINING TRAFFIC AND SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS (INCLUDING SUPPORTS). TOOLS AND OTHER INCIDENTALS TO PROVIDE FOR A COMPLETE AND ACCEPTED ITEM OF WORK.

SEQUENCE OF OPERATIONS: (2-LANE SECTION)

PHASE 1: (2-LANE SECTION) W.B. LANE

(1) INSTALL NECESSARY TRAFFIC CONTROL DEVICES, CLOSE W.B. LANE AND MAINTAIN TRAFFIC BY USE OF THE FLAGGERS, AS PER STANDARD CONSTRUCTION DRAWING MT-97.10.

(2) PERFORMED JOINT REPAIR, AS DETAILED

PHASE 2: (2-LANE SECTION) E.B. LANE

(1) INSTALL NECESSARY TRAFFIC CONTROL DEVICES, CLOSE E.B. LANE AND MAINTAIN TRAFFIC BY USE OF THE FLAGGERS, AS PER STANDARD CONSTRUCTION DRAWING MT-97.10.

(2) PERFORMED JOINT REPAIR, AS DETAILED

PHASE 3: (2-LANE SECTION) W.B. LANE

(1) INSTALL NECESSARY TRAFFIC CONTROL DEVICES, CLOSE W.B. LANE AND MAINTAIN TRAFFIC BY USE OF THE FLAGGERS. AS PER STANDARD CONSTRUCTION DRAWING MT-97.12

(2) PLANÉ W.B. LANE AND SHOULDER, 3 1/4" DEEP AS DETAILED.

(3) IMMEDIATELY PLACE 1.75" OF ITÉM 442 ASPHALT CONCRETE INTERMEDIATE COURSE FOR W.B. LANE AND SHOULDER.

(4) INSTALL TEMPORARY PAVEMENT MARKINGS

(5) REMOVE TRAFFIC CONTROL DEVICES FOR CLOSING W.B. LANE.

PHASE 4: (2-LANE SECTION) E.B. LANE

(1) INSTALL NECESSARY TRAFFIC CONTROL DEVICES, CLOSE E.B. LANE AND MAINTAIN TRAFFIC BY USE OF THE FLAGGERS, AS PER STANDARD CONSTRUCTION DRAWING MT-97.12

(2) PLANE E.B. LANE AND SHOULDER, 3 1/4" DEEP AS DETAILED.

(3) IMMEDIATELY PLACE 1.75" OF ITEM 442 ASPHALT CONCRETE INTERMEDIATE COURSE FOR E.B. LANE AND SHOULDER.

(4) INSTALL TEMPORARY PAVEMENT MARKINGS

(5) REMOVE TRAFFIC CONTROL DEVICES FOR CLOSING E.B. LANE.

PHASE 5: (2-LANE SECTION) W.B. LANE

(1) INSTALL NECESSARY TRAFFIC CONTROL DEVICES, CLOSE W.B. LANE, AND MAINTAIN TRAFFIC BY USE OF FLAGGERS, AS PER STANDARD DRAWING MT-97.12

(2) PLACE 1.5" OF ITEM 442 ASPHALT CONCRETE SURFACE COURSE ON W.B. LANE AND PAVED SHOULDER, AS PER TYPICAL SECTION.

(3) INSTALL TEMPORARY PAVEMENT MARKINGS

(4) REMOVE TRAFFIC CONTROL DEVICES FOR CLOSING W.B. LANE.

PHASE 6: (2-LANE SECTION) E.B. LANE

(1) INSTALL NECESSARY TRAFFIC CONTROL DEVICES, CLOSE E.B. LANE, AND MAINTAIN TRAFFIC BY USE OF FLAGGERS, AS PER STANDARD DRAWING MT-97.12

(2) PLACÉ 1.5" OF ITEM 442 ASPHALT CONCRETE SURFACE COURSE ON E.B. LANE AND PAVED SHOULDER, AS PER TYPICAL SECTION.

(3) INSTALL TEMPORARY PAVEMENT MARKINGS

(4) REMOVE TRAFFIC CONTROL DEVICES FOR E.B. CLOSING LANE.

PHASE 7: (2-LANE SECTION) E.B. & W.B. LANES

(1) PLACE ALL PERMANENT PAVEMENT MARKINGS AND RAISED PAVEMENT MARKERS. OPEN ROADWAY TO UNRESTRICTED TRAFFIC.

GENERAL:

IT IS THE INTENT OF THIS SEQUENCE OF OPERATIONS TO PROVIDE A WORK AREA FOR THE CONTRACTOR WHILE ALSO MAINTAINING TRAFFIC IN A MANNER WHICH IS SAFE FOR THE TRAVELING PUBLIC (SEE WORK RESTRICTIONS AND LANE CLOSURES SHEET 5).

IF THE CONTRACTOR SO ELECTS, HE/SHE MAY SUBMIT ALTERNATE METHOD FOR THE MAINTENANCE OF TRAFFIC, PROVIDED THE INTENT OF THE ABOVE PROVISIONS ARE FOLLOWED AND NO ADDITIONAL INCONVENIENCE TO THE TRAVELING PUBLIC RESULTS THEREFROM. NO ALTERNATE PLAN SHALL BE PLACED INTO EFFECT UNTIL APPROVAL HAS BEEN GRANTED, IN WRITING, BY THE ENGINEER.

ALL TEMPORARY OR PERMANENT PAVEMENT MARKINGS SHALL BE IN PLACE BEFORE ANY PAVEMENT IS OPENED TO TRAFFIC.

SEQUENCE OF OPERATIONS: (4-LANE DIVIDED SECTION)

PHASE 1: (4-LANE DIVIDED SECTION)

(1) INSTALL NECESSARY TRAFFIC CONTROL DEVICES, CLOSE INSIDE LANE AND MAINTAIN TRAFFIC BY USE OF THE OUTSIDE LANE AND PAVED SHOULDER, AS PER STANDARD CONSTRUCTION DRAWING MT-95.30.

(2) PERFORMED JOINT REPAIR, AS DETAILED

(3) REMOVE TRAFFIC CONTROL DEVICES FOR CLOSING INSIDE LANE.

PHASE 2: (4-LANE DIVIDED SECTION)

(1) INSTALL NECESSARY TRAFFIC CONTROL DEVICES, CLOSE OUTSIDE LANE, AND MAINTAIN TRAFFIC BY USE OF THE INSIDE LANE AND PAVED SHOULDER, AS PER STANDARD CONSTRUCTION DRAWING MT-95.30.

(2) PERFORM JOINT REPAIR, AS DETAILED

(3) REMOVE TRAFFIC CONTROL DEVICES FOR CLOSING OUTSIDE LANE.

PHASE 3: (4-LANE DIVIDED SECTION)

(1) INSTALL NECESSARY TRAFFIC CONTROL DEVICES, CLOSE INSIDE LANE AND MAINTAIN TRAFFIC BY USE OF THE OUTSIDE LANE AND PAVED SHOULDER, AS PER STANDARD CONSTRUCTION DRAWING MT-95.30.

(2) PLANE INSIDE LANE AND SHOULDER, 3 1/4" DEEP AS DETAILED.

(3) IMMEDIATELY PLACE 1.75" OF ITEM 442 ASPHALT CONCRETE INTERMEDIATE COURSE FOR INSIDE LANE AND SHOULDER.

(4) INSTALL TEMPORARY PAVEMENT MARKINGS

(5) REMOVE TRAFFIC CONTROL DEVICES FOR CLOSING INSIDE LANE.

PHASE 4: (4-LANE DIVIDED SECTION)

(1) INSTALL NECESSARY TRAFFIC CONTROL DEVICES, CLOSE OUTSIDE LANE, AND MAINTAIN TRAFFIC BY USE OF THE INSIDE LANE AND PAVED SHOULDER, AS PER STANDARD CONSTRUCTION DRAWING MT-95.30

(2) PLANE OUTSIDE LANES AND SHOULDER, RAMP AREAS, 3 1/4" DEEP, AS DETAILED.

(3) IMMEDIATELY PLACE 1.75" OF ITEM 442 INTERMEDIATE COURSE FOR OUTSIDE LANE, SHOULDER AND FOR RAMP AREAS WHERE APPLICABLE, COMPLETE ALL OTHER RELATED WORK AS PER TYPICAL SECTION.

(4) INSTALL TEMPORARY PAVEMENT MARKINGS

(5) REMOVE TRAFFIC CONTROL DEVICES FOR CLOSING OUTSIDE LANE.

PHASE 5: (4-LANE DIVIDED SECTION)

(1) INSTALL NECESSARY TRAFFIC CONTROL DEVICES, CLOSE INSIDE LANE, AND MAINTAIN TRAFFIC BY USE OF THE OUTSIDE LANE AND PAVED SHOULDER, AS PER STANDARD CONSTRUCTION DRAWING MT-95.30.

(2) PLACE 1.5" OF ITEM 442 ASPHALT CONCRETE SURFACE COURSE ON INSIDE LANE AND SHOULDER

(3) INSTALL TEMPORARY PAVEMENT MARKINGS

(4) REMOVE TRAFFIC CONTROL DEVICES FOR CLOSING INSIDE LANE.

PHASE 6: (4-LANE DIVIDED SECTION)

(1) INSTALL NECESSARY TRAFFIC CONTROL DEVICES, CLOSE OUTSIDE LANE, AND MAINTAIN TRAFFIC BY USE OF THE INSIDE LANE AND PAVED SHOULDER, AS PER STANDARD CONSTRUCTION DRAWING MT-95.30
(2) PLACE 1.5" OF ITEM 442 ASPHALT CONCRETE SURFACE COURSE ON OUTSIDE LANES, PAVED SHOULDER AND RAMP AREAS WHERE APPLICABLE.

(3) INSTALL TEMPORARY PAVEMENT MARKINGS

(4) REMOVE TRAFFIC CONTROL DEVICES FOR CLOSING OUTSIDE LANE.

PHASE 7: (4-LANE DIVIDED SECTION) E.B. & W.B. LANES

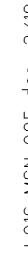
(1) PLACE ALL PERMANENT PAVEMENT MARKINGS AND RAISED PAVEMENT MARKERS. OPEN ROADWAY TO UNRESTRICTED TRAFFIC.

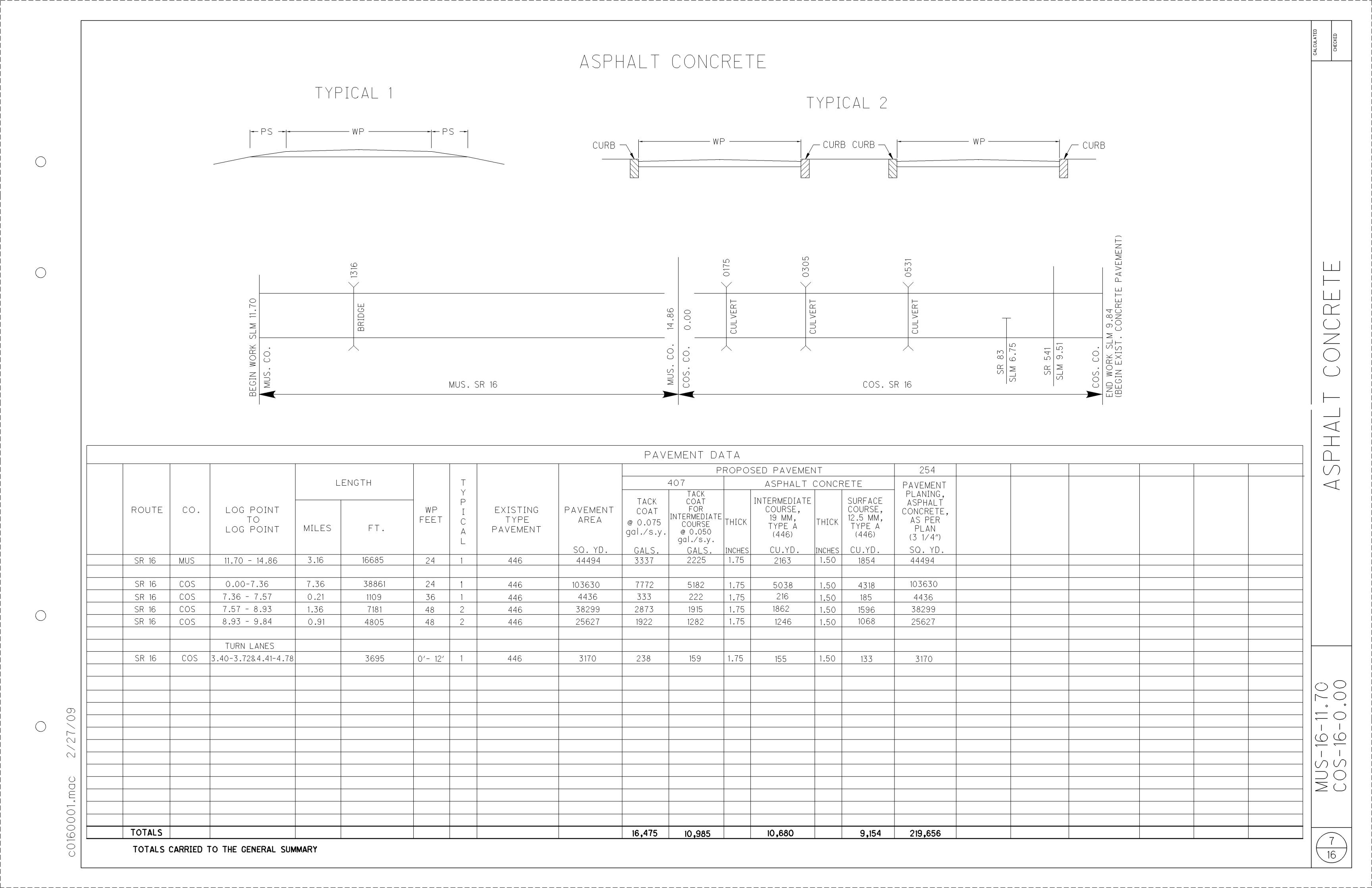
GENERAL:

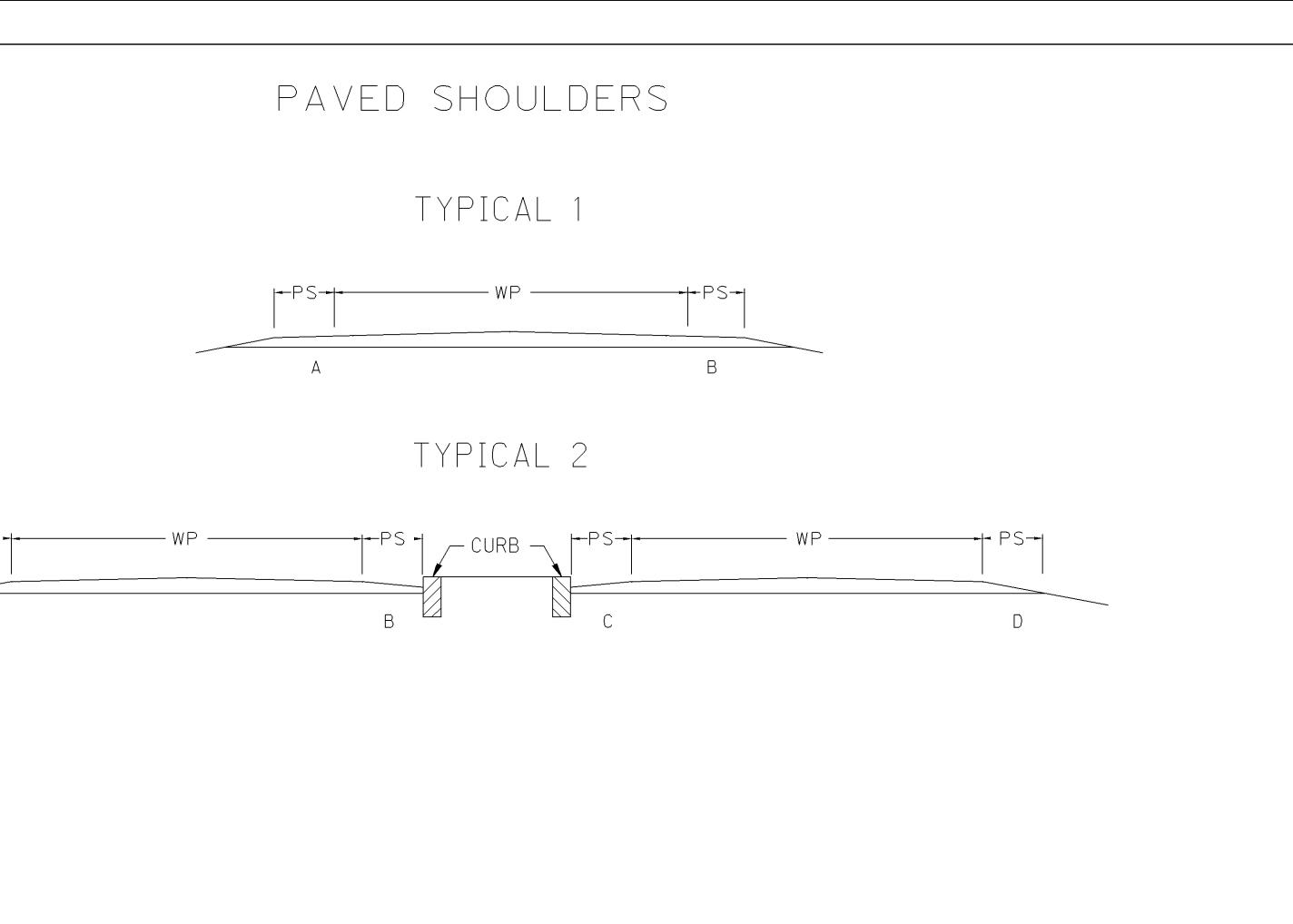
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IF THE CONTRACTOR SO ELECTS, HE/SHE MAY SUBMIT ALTERNATE METHOD FOR THE MAINTENANCE OF TRAFFIC, PROVIDED THE INTENT OF THE ABOVE PROVISIONS ARE FOLLOWED AND NO ADDITIONAL INCONVENIENCE TO THE TRAVELING PUBLIC RESULTS THEREFROM. NO ALTERNATE PLAN SHALL BE PLACED INTO EFFECT UNTIL APPROVAL HAS BEEN GRANTED, IN WRITING, BY THE ENGINEER.

ALL TEMPORARY OR PERMANENT PAVEMENT MARKINGS SHALL BE IN PLACE BEFORE ANY PAVEMENT IS OPENED TO TRAFFIC.







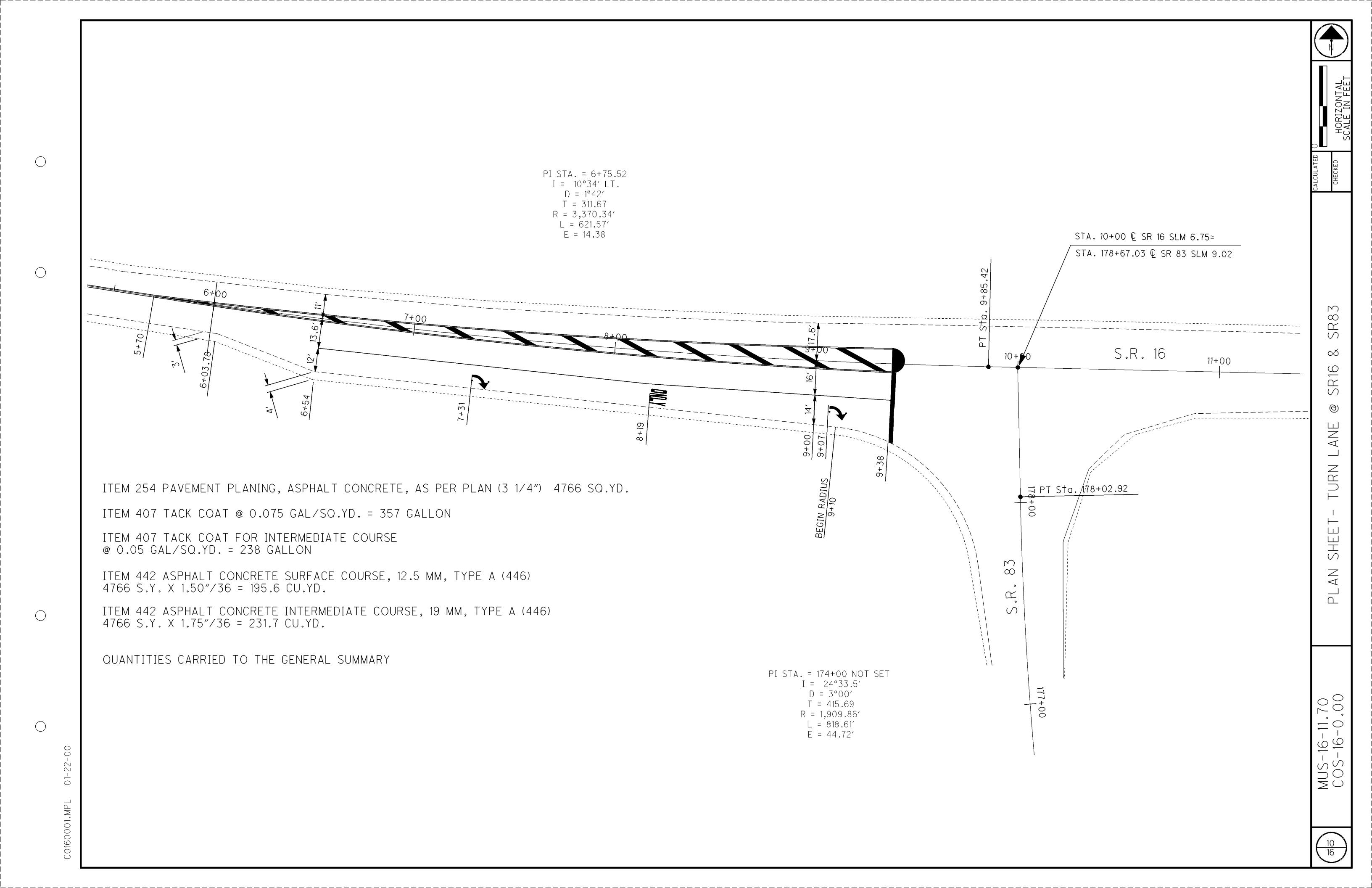
												PAVED SH	OULDER	DATA					
							″W	//			407	407		4.	42		254	617	
COL			LEI	NGTH	T Y	PROF		D WIDT	Н		TACK COAT FOR INTERMEDIATE	TACK COAT		ASPH CON(HALT CRETE		PAVEMENT PLANING, ASPHALT CONCRETE,	COMPACTED AGGREGATE, AS PER PLAN	
N T Y	ROUTE	LOG POINT TO LOG POINT	MILES	FT.	P I C A L	A	В	С	1	DULDER AREA Q.YDS.	O.05 gal./s.y.	0.075 gal./s.y.	THICK	INTERMEDIATE COURSE, 19 MM, TYPE A (446)	THICK	SURFACE COURSE 12.5 MM, TYPE A (446)	AS PER PLAN (3 1/4")	2' X 2.0" AVER. THICKNESS TO BACK UP PAVED SHOULDERS	
											GALLON	GALLON	INCHES	CU.YD.	INCHES	CU.YD.	SQ.YD.	CU.YD	
MU	S SR 16	11.70 - 14.86	3.16	16685	1	3	3		1	1124	557	835	1.75	541	1.50	464	11124	412	
	S SR 16	0.00-6.57	6.57	34690	1	3	3		2	3127	1157	1735	1.75	1125	1.50	964	23127	857	
	S SR 16	6.57-6.67	0.10	528	1 1	4	4			469	24	35	1.75	23	1.50	20	469	13	
	S SR 16	6.67-6.75	0.08	422	1	4	4			375	19	28	1.75	19	1.50	16	375	10	
CO		6.75-7.36	0.61	3221	1	3	3			2147	108	161	1.75	105	1.50	90	2147	80	
СО	S SR 16	7.36-7.57	0.21	1109	1	4	4			986	50	74	1.75	48	1.50	41	986	28	
CO	S SR 16	7.57-9.84	2.27	11986	2	4	1.5	1.5	4 14	1650	733	1099	1.75	713	1.50	611	14650	296	
		TOTALS									2,648	3,967		2,574		2,206	52,878	1,696	

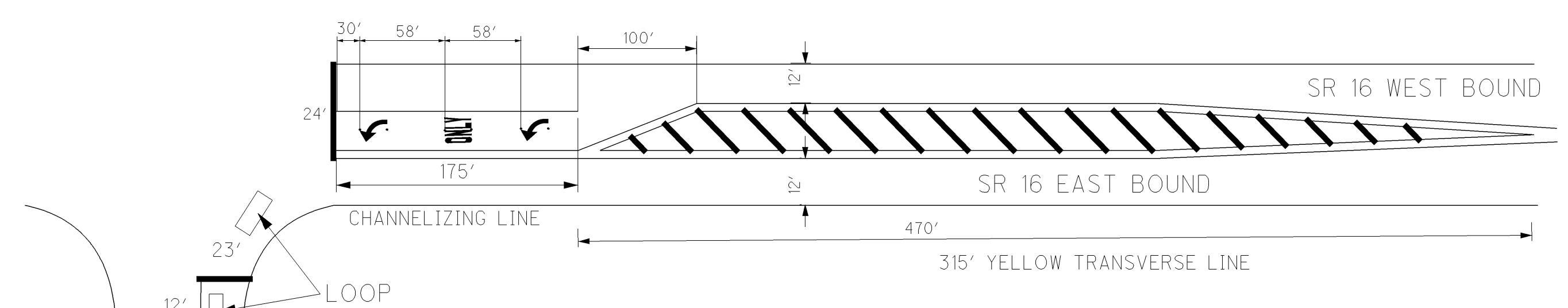
TOTALS CARRIED TO THE GENERAL SUMMARY

9

MUS-COS

TOTALS CARRIED TO THE GENERAL SUMMARY





SR 83

CENTER LINE SUB-SUMMARY

		S 1	_ 。M 。	CENT QUA	ER LINES ANTITIES		TOTAL	
CO.	ROUTE	<i>→</i> 。L	_	TOTAL	EQUIVALENT		CENTER LINE	REMARKS
		FROM	TO	MILES	SOLID LINE		MILES	
MUS	SR16	11.700	14.860	3.160	1.583			
COS	SR16	0.000 7.370	7.370 7.590	7.53	5.353 0.570			
	TOTAL			10.920				

TOTAL CARRIED TO THE GENERAL SUMMARY

EDGE LINE SUB-SUMMARY

		S.L	. M .	WHITE	EDGE LINE	E QU.	YELLOW	EDGE LINE QU.	ED(
	CO. ROUTE	FROM	ТО	TOTAL MILES	HIGHWAY	RAMP	TOTAL MILES	HIGHWAY RAMP	TOT MIL	TAL
N	MUS SR16	11.70	14.86	6.32	6.32				6.3	32
	COS SR16 SR16-E.B. & W.B.	0.00	7.36 9.84	14.72	14.72 2.84		2.84	2.84	14.	
	RAMPS			0.61		0.61	0.61	0.61	1.2	22
	TOTAL								32.	.180

TOTAL CARRIED TO THE GENERAL SUMMARY

<u> </u>		T	
		SLM	QUANTITIES
	. ROUTE		
		FROM TO	
COS	SR 16 (E.B.)	7.60 TO 9.84	2.24 2.24
	SR 16 (W.B.)	7.57 TO 9.84	2.27 2.27
	TOTAL		4.51

TOTAL CARRIED TO THE GENERAL SUMMARY

PAVEMENT MARKING SUB-SUMMARY

### Part			64	4 THERMOPLAST	IC			
FOUR PROPERTY FOUR PROPERT			STOP 12" 8" CROSSWALK CROSSWALK	WORD ON PAVEMENT	LANE ARRO)WS		
### ### #### #########################	ROUTE	SIDE LINES		ONLY SCHOO		THRU	I	REMARKS
Exist FD FT FD FD FD FD FD FD	SR 16 MUSKINGUM COUNTY							
BASE RD								
BASE RD								
CORP. LEW 11 12 2 2 2 2 2 2 2								
STILET 13 ST								
STREET IN ADAPT NOTES P								
STREET IN LARGE SET 2								
BRIDGS STREET R ST ST ST ST ST ST ST		1 \ 1						
## ## ## ## ## ## ## ## ## ## ## ## ##								
SIMPLE STANDARD MEDICAL STANDARD MEDIC		DT						
SHAPE N ADMAN 8 5 6 1 1 1 1 1 1 1 1 1								
STREET IN ADMASS MIL. STRE		1 \ 1						
STREET OF ADMIN MALES 37								
SUB-TOTAL 270		1 \ 1						
SUB-TOTAL SR 18 COS-COTON COUNTY CORD 75		PT						
SA 16 COS OCTON COUNTY C OR 70 75	IVOAD							TEACE ZZ TROW SR 10 CE
CO FD 75	SUB-TOTAL		270					
CORD 75								
CORD 75 LT 36 PLACE 26' FROW SR 16 CL TWP 4830 RT 1 50 PLACE 26' FROW SR 16 CL TWP 288 LT 388 RT 50 PLACE 27' FROM SR 16 CL TWP 762 LT 28 PLACE 27' FROM SR 16 CL PLACE 20' FROM SR 16 CL PLACE 21' FR								
TWP 283	SR 16 COSHOCTON COUNTY							
TWP 483C RT 50 PLACE 22' FROM SR' 8 CL WP 286 RT 50 PLACE 22' FROM SR' 8 CL TWP 286 RT 50 PLACE 22' FROM SR' 8 CL TWP 288 RT 50 PLACE 24' FROM SR' 8 CL TWP 287 RT 50 PLACE 20' FROM SR' 8 CL TWP 287 RT 50 PLACE 20' FROM SR' 8 CL TWP 287 RT 50 PLACE 20' FROM SR' 8 CL TWP 287 RT 50 PLACE 20' FROM SR' 8 CL TWP 287 RT 50 PLACE 20' FROM SR' 8 CL TWP 480 RT 50 PLACE 22' FROM SR' 8 CL TWP 480 RT 50 PLACE 22' FROM SR' 8 CL TWP 285 LT 50 PLACE 22' FROM SR' 8 CL TWP 285 LT 50 PLACE 22' FROM SR' 8 CL TWP 285 LT 50 PLACE 22' FROM SR' 8 CL TWP 287 RT 50 PLACE 22' FROM SR'								
TWP 288 RT 50 B PLACE 25' FROM SR 16 CL WP 288 RT 50 B PLACE 27' FROM SR 16 CL TWP 287 LT 50 B PLACE 27' FROM SR 16 CL TWP 287 LT 50 B PLACE 27' FROM SR 16 CL TWP 287 RT 50 B PLACE 27' FROM SR 16 CL TWP 287 RT 50 B PLACE 27' FROM SR 16 CL TWP 287 RT 50 B PLACE 27' FROM SR 16 CL TWP 480 RT 50 B PLACE 27' FROM SR 16 CL TWP 483 LT 50 B PLACE 27' FROM SR 16 CL TWP 483 LT 50 B PLACE 27' FROM SR 16 CL TWP 285 LT 50 B PLACE 27' FROM SR 16 CL TWP 285 LT 50 B PLACE 27' FROM SR 16 CL TWP 387	CO RD 75	LT	36					PLACE 26' FROM SR 16 CL
TWP 288	TWP 483C	RT	30					PLACE 22' FROM SR 16 CL
TWP 162 LT 29 PLACE 2' FROM SR 16 CL TWP 267 LT 30 PLACE 2' FROM SR 16 CL TWP 267 RT 26 PLACE 2' FROM SR 16 CL TWP 480 RT 24 PLACE 2' FROM SR 16 CL TWP 483 LT 29 PLACE 2' FROM SR 16 CL TWP 265 LT 36 PLACE 2' FROM SR 16 CL CYCLOPS RD RT 42 PLACE 2' FROM SR 16 CL TWP 347 LT 14 PLACE AS DIRECTED TWP 279 RT 17 PLACE AS DIRECTED TWP 347 LT 26 PLACE 2' FROM SR 16 CL TWP 347 LT 26 PLAC	TWP 288	LT	38					PLACE 25' FROM SR 16 CL
TWP 287	TWP 288	RT	50					PLACE 24' FROM SR 16 CL
TWP 287 RT 28 PLACE 24' FROM SR 16 CL TWP 480 RI 24 PLACE 22' FROV SR 16 CL TWP 483 LT 29 PLACE 22' FROV SR 16 CL TWP 285 LT 36 PLACE 22' FROV SR 16 CL CYCLOPS RD RT 42 PLACE 22' FROV SR 16 CL TWP 347 LT 14 PLACE AS DIRECTED TWP 347 LT PLACE AS DIRECTED TWP 347 LT 30 PLACE 24' FROM SR 16 CL TWP 347 LT 30 PLACE 24' FROM SR 16 CL TWP 347 LT 28 PLACE 22' FROM SR 16 CL TWP 347 LT 28 PLACE 22' FROM SR 16 CL TWP 347 LT 28 PLACE 22' FROM SR 16 CL TWP 347 LT 28 PLACE 22' FROM SR 16 CL TWP 347 LT 29 STAN STAN STAN STAN STAN STAN STAN STAN		LT	29					PLACE 21' FROM SR 16 CL
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TWP 285 LT 36		RT						
CYCLOPS RD RT 42 SPLACE 24' FROM SR 16 CL TWP 347 LT 14 PLACE AS DIRECTED TWP 279 RT 17 PLACE 24' FROM SR 16 CL TWP 347 LT 26 PLACE 22' FROM SR 16 CL TWP 347 LT 30 PLACE 22' FROM SR 16 CL ON SR 16 AT SR 83 170 35 1 2 284 SEE DETAIL SHEET SR 83 5 35 75 SEE DETAIL SHEET SEE DETAIL SHEET ON SR 16 AT SR 83 SLM 315 24 1 2 175 SEE DETAIL SHEET N LANES ON SR 16 @ (3,40-3,7284,41-4,78) 1400 3 6 690 REPLACE AT SAME LOCATION AS EXIST. SUB-TOTALS 1885 551 5 8 2 1224		LT						
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ON SR 16 AT SR 83 170 35 1 2 284 SEE DETAIL SHEET SR 83 35 35 1 2 175 SEE DETAIL SHEET ON SR 16 AT SR 83 SLM 315 24 1 2 175 SEE DETAIL SHEET RN LANES ON SR 16 @ (3.40-3.72&4.41-4.78) 1400 3 6 690 REPLACE AT SAME LOCATION AS EXIST. SUB-TOTALS 1885 551 5 8 2 1224		LT						
SR 83 35 1 2 175 SEE DETAIL SHEET ON SR 16 AT SR 83 SLM 315 24 1 2 175 SEE DETAIL SHEET RN LANES ON SR 16 @ (3.40-3.72&4.41-4.78) 1400 3 6 690 REPLACE AT SAME LOCATION AS EXIST. SUB-TOTALS 1885 551 5 8 2 1224		LT	 					
ON SR 16 AT SR 83 SLM RN LANES ON SR 16 @ (3.40-3.72&4.41-4.78) SUB-TOTALS 315 24 1 2 1 75 SEE DETAIL SHEET 690 REPLACE AT SAME LOCATION AS EXIST. 5 8 2 1224		170		1	2			
RN LANES ON SR 16 @ (3.40-3.72&4.41-4.78) 1400 3 6 690 REPLACE AT SAME LOCATION AS EXIST. SUB-TOTALS 1885 551 5 8 2 1224			+ + + + + + + + + + + + + + + + + + + +					
SUB-TOTALS 1885 551 5 8 2 1224			24	1	2			
			554	3	6			REPLACE AT SAME LOCATION AS EXIST.
SR 16 RAMPS @ S.R. 541 170 88 335 1 1 1 797 PLACE AS DIRECTED	SUB-TOTALS	1003	551	5	8 2		1224	
SIN IO INAIVII S & SIN SIN PLACE AS DIRECTED	SR 16 RAMPS @ S R 5/11	170	90 775			1	707	DI ACE AC DIDECTED
	JIV IV IVAIVII J & J.IV. J41	110	00 335				131	FLACE AS DIKECTED
						 		

<u>_ 16</u> _

2,021

170

1,885

335

TOTALS

	LO	CATION			ITEM QUANTITIES	PRIS	MATIC RET	RO-REFLECTO	R COLORS		
		S.L.M. MILES	,				-WAY	TWO-W		REMARKS	
COUNTY	ROUTE	FROM	ТО	RPM	RPM	WHITE	YELLOW	YELLOW/ WHI ⁻ YELLOW REI	TE/ YELLOW/ RED		
MUS	SR 16	11.70	14.86		210			210			
COS	SR 16	0.00	0.13		9			9			
COS	SR 16	0.13	0.20		9			9		PC 0.13 PT 0.20 L=370′ DEG 7	
COS	SR 16 SR 16	0.20	6.67 6.75		427	16		427		APPROACH AT SR 83	
COS COS	SR 16	6.67 6.75	6.87		35 35	16		15		APPROACH AT SR 83	
COS	SR 16	6.87	7.36		32			32			
COS	SR 16	7.36	7.61		131	66	56	6 3	,		
COS	SR 16	7.61	8.94		176			17	6		
COS	SR 16	TURN LANES			142			120 2	2		
					1,206	98	56	839 21	3		
	TOTAL				1,206						

C0160001.TRM

						SHEI	ET NU	UMBEI	R		T	_	 ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEE No.
3	4	5 7	8	3	9	10	12	13	14	15				EXT.	TOTAL			NO
,120													253	01001	21,120	SO YD	PAVEMENT REPAIR, AS PER PLAN	
,120													233	01001	21,120	30, 10,	TAVEINENT REPAIR, AS TER TEAR	
		219,656	52,8	878 1	7,752	4,766							254	01001	295,052	SQ. YD.	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN	3
+		9,154	2,2	06	740	196							442	10000	12,296	CU.YD.	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446)	
		10,680											442	10100	14,350		ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (446)	
		16,475	3 9	67	1 345	357						-	407	10000	22,144	GALLON	TACK COAT	
		10,985											407	14000	14,770	GALLON	TACK COAT FOR INTERMEDIATE COURSE	
	80,630	,											407	98000	80,630	FT.	TACK COAT, MISC.: FOR LONGITUDINAL JOINT	4
+			1.0	0.0									617	10101	1,000	CU.YD.	COMPACTED AGGREGATE, AS PER PLAN	
			1,0	96									017	10101	1,696	CO.ID.	COMPACIED AGGREGATE, AS FER FLAN	
																	TRAFFIC CONTROL	
										1,206			621	00100	1,206	EACH	RPM	
206													621	54000	1,206	EACH	RAISED PAVEMENT MARKER REMOVED	
6													632	26501	6	EACH	DETECTOR LOOP, AS PER PLAN	7
													032	20301	0	LACII	DETECTOR EOOF, AS LERTEAN	
							32.180	1					644	00100	32.180	MILE	EDGE LINE	
							10.920	4.510					644 644	00200	4.510	MILE MILE	LANE LINE CENTER LINE	
+							10.320		2,021				644	00400	2,021	FT.	CHANNELIZING LINE	
+									909				644 644	00500 00600	909 335	FT.	STOP LINE CROSSWALK LINE	
									2,055				644	00700	2,055	FT.	TRANSVERSE/DIAGONAL LINE	
									11				644	01300	11	EACH	LANE ARROW	
									5			1	644	01410	5	EACH	WORD ON PAVEMENT, 96"	
+																		
+																	MAINTENANCE OF TRAFFIC	
																	MAINTENANCE OF THAT IS	
	200												614	11100	200	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR	
+		120											614	12460	120	EACH	WORK ZONE MARKING SIGN	
		20											614	12600	20		REPLACEMENT DRUM	
11													614	13000	11	CU.YD.	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
	10												614	18601	10	SIGN MNTH	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	4
		0.02										-	614	20550	0.00	NATI F	WORK ZONE LANE LINE CLASS III 642 DAINT	
		9.02											614 614	20550 21550	9.02	MILE MILE	WORK ZONE LANE LINE, CLASS III, 642 PAINT WORK ZONE CENTER LINE, CLASS III, 642 PAINT	
		4,042											614	23680	4,042	FT.	WORK ZONE CHANNELIZING LINE, CLASS III, 642 PAINT	
		1,808											614	26610	1,808	FT.	WORK ZONE STOP LINE, CLASS III, 642 PAINT	
+																		
+		LUMP					-					-	614	11000	LUMP		MAINTAINING TRAFFIC	
													619	16000	5	MONTH	FIELD OFFICE, TYPE A	
													623	10000	LUMP		CONSTRUCTION LAYOUT STAKES	
														.5555	201411			
													624	10000	LUMP		MOBILIZATION	