

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

TITLE SH TYPICAL GENERA MAINTE GENERA ESTIMA CROSS. SUPERE TRAFFIC STRUCT

INTERSTATE HIGHWAY______ FEDERAL ROUTES ._____-COUNTY & TOWNSHIP ROADS _______ OTHER ROADS ______

PORTION TO BE IMPROVED ._____

LATITUDE: 39° 02' 55" LONGITUDE: -84° 23' 21"

DESIGN DESIGNATION

SEE SHEETS 30 & 31

DESIGN EXCEPTIONS

DESIGN FEATURE HORIZONTAL CURVE RADIUS 3-11-2024 SUPERELEVATION RATE

3-11-2024

ADA DESIGN WAIVERS

NONE REQUIRED



PLAN PREPARED BY: OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 8 ENGINEERING 505 SOUTH S.R. 741 LEBANON, OHIO 45036

APPROVAL DATE SHEET NUMBERS 27

			STANDARD	SUPPLEMENTALSPECIALSPECIFICATIONSPROVISIONS					
BP-3.1	1/19/24	TC-41.20 TC-42.20	10/18/13 10/18/13			800-2023 1/19/24	1/19/24	ASBESTOS INSPECTION REPORT	
NIVI-4.2	4/1//20	TC-52.10 TC-52.20	10/18/13					//28/2024	FNGINF
EXJ-4-87	1/19/24	TC-65.10	1/17/14	K					
GSD-1-19	1/15/2	TC-65.11	1/19/24	K					
PCB-91	7/17/20	<u>h</u>							
		DM-4.3	1/15/16						::'ÀTE
MT-95.40	7/21/23	DM-4.4	1/15/16						:5
MT-95.41	7/21/23								FRE GA
MT-98.29	1/17/20								
MT-101.60	4/21/23								
MT-101.70	4/21/23								ESSIO
MT-101.90	7/17/20	R							· ////
MT-101.75	7/21/23	7							
MT-105.10	1/17/20								

USER: РΜ 2.06.04 DA 35.89 52 US HAM

HAM-52-35.89

ANDERSON TOWNSHIP

HAMILTON COUNTY

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NONE

PROJECT DESCRIPTION

IMPROVEMENT OF A STRUCTURE CARRYING U.S.R. 52 OVER KELLOGG AVENUE BY REPAIRING BUMP AT THE BRIDGE JOINT AND RAISING OF THE APPROACH ROADWAY PROFILE. BRIDGE REPAIR CONSISTS OF REPLACEMENT OF THE EXISTING BEARINGS, REPLACEMENT OF EXISTING EXPANSION JOINTS AND END PORTIONS OF THE REINFORCED CONCRETE DECK. **PROJECT INCLUDES THE INSTALLATION OF NEW CURVE WARNING SIGNAGE**

PROJECT EARTH DISTURBED AREA: ESTIMATED CONTRACTOR EARTH DISTURBED AREA: NOTICE OF INTENT EARTH DISTURBED AREA:

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS, CHANGES LISTED IN THE PROPOSAL, AND THE SUPPLEMENTAL SPECIFICATION 800 VERSION INDICATED ON THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

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





FEDERAL PROJECT NUMBER

E240420

RAILROAD INVOLVEMENT

EARTH DISTURBED AREAS

0.06 ACRES 0.25 ACRES N/A (NOI NOT REQUIRED)

Tany K Canpell

Tammy K. Campbell, P.E. District 08 Deputy Director

Jack Marchbanks, PhD Director, Department of Transportation



SHEET TITLE

ESIGN AGENCY



UTILITIES

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

TRAFFIC LIGHTING: ODOT DISTRICT 8 TRAFFIC OPERATIONS DEPT. 505 S. STATE ROUTE 741 LEBANON, OH 45036 JIM JUDD 513-933-6692

DUKE ELECTRIC 139 EAST 4TH STREET, ROOM 467A CINCINNATI, OHIO 45202 *OFFICE: 513-421-9500* FAX: 513-287-1743/513-287-4189 2010 DANA AVENUE CINCINNATI, OHIO 45207 CINCINNATI, OHIO 45207 *CELL: 513-508-9609 (SHANE ERHART)*

FIBER: CINCINNATI BELL TELEPHONE (ALTAFIBER) 221 EAST 4TH STREET, BLDG. 121-900 CINCINNATI, OHIO 45201 DIRECT: (513) 397-0548 (JASON BURNS) EMAIL: ROADPROJECTS@ALTAFIBER.COM

SEWER: CINCINNATI METROPOLITAN SEWER DISTRICT 1600 GEST STREET CINCINNATI, OHIO 45204 513-557-7188 (ROB FRANKLIN)

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.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

EXISTING PLANS

THE EXISTING STRUCTURE PLANS ARE AVAILABLE ONLINE THROUGH THE FOLLOWING WEBSITE: https://ftp.dot.state.oh.us/pub/Contracts/Attach/HAM-119272/REFERENCE%20FILES/

IT IS THE RESPONSIBLITY OF THE CONTRACTOR TO BECOME FAMILIAR WITH ALL PERTINENT EXISTING DRAWINGS AND DETAILS RELEVANT TO THIS PROJECT.

PERMANENT PAVEMENT MARKINGS

THE CONTRACTOR SHALL REFERENCE ALL PAVEMENT MARKINGS WITHIN THE WORK LIMITS BEFORE THE REMOVAL OF CONFLICTING PAVEMENT MARKINGS NECESSARY TO IMPLEMENT THE MAINTENANCE OF TRAFFIC PHASES. THIS WILL BE NECESSARY TO ASSURE CORRECT PLACEMENT OF MARKINGS IN THEIR ORIGINAL LOCATIONS.

PAYMENT FOR THIS OPERATION SHALL BE INCLUDED WITH EACH RESPECTIVE PAVEMENT MARKING ITEM.

<u>ROUNDING</u>

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS, EVEN THOUGH OTHERWISE SHOWN.

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, TOPSOIL 167 CU. YD. 659, SEEDING AND MULCHING 1500 SQ. YD. 659, REPAIR SEEDING AND MULCHING 75 SQ. YD. 659, COMMERCIAL FERTILIZER 0.20 TON 659, LIME 0.31 ACRES 8.3 M. GAL. *659, WATER*

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-**OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE** EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

ITEM 253 - PAVEMENT REPAIR

AN ESTIMATED QUANTITY OF 10 CUBIC YARDS OF ITEM 253 PAVEMENT REPAIR HAS BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER IN THE SHOULDER PAVEMENT ADJACENT TO BACKWALL REMOVALS IN THE SHOULDER. THIS OPERATION SHALL BE PERFORMED BEFORE THE RESURFACING OF THE ROADWAY.

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ITEM SPECIAL MISC.: CONSULTANT FOR CONCRETE QUALITY CONTROL **INCLUDING TESTING AND INSPECTION**

ALL CONCRETE SHALL BE TESTED. ALL TESTING, INSPECTION AND QUALITY CONTROL FOR CONCRETE, NOT INCLUDED UNDER QC/QA PAY ITEMS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE A CONCRETE TESTING CONSULTANT WITH PREVIOUS EXPERIENCE AND FAMILIARITY IN ODOT PROCEDURES, CONCRETE TESTING REQUIREMENTS AND CONCRETE TESTING DOCUMENTATION. AT LEAST 30 DAYS PRIOR TO CONCRETE PLACEMENT, SUBMIT TO THE ENGINEER FOR APPROVAL, THE PROPOSED CONCRETE TESTING CONSULTANT ALONG WITH THE RESUMES OF THE PROPOSED TESTING PERSONNEL.

TESTING CONCRETE FOR STRUCTURES AND PORTLAND CEMENT CONCRETE PAVEMENT SHALL BE PERFORMED AS OUTLINED IN CMS SPECIFICATIONS 455 RESPECTIVELY.

THROUGH THE CONTRACTOR, THE CONSULTANT SHALL BE RESPONSIBLE FOR ENSURING THAT ALL CONCRETE PLACED IS IN ACCORDANCE WITH THE SPECIFICATIONS. SUCH WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE CONSTRUCTION AND MATERIAL SPECIFICATIONS AND THE ODOT CONSTRUCTION INSPECTION MANUAL OF PROCEDURES FOR CONCRETE. THE CONCRETE CONSULTANT SHALL PROVIDE THE NECESSARY TRAINED TECHNICIAN(S), ALL EQUIPMENT, AND SHALL FURNISH THE PROJECT ENGINEER WITH TWO (2) COPIES OF ALL TEST **RESULTS WITHIN 24 HOURS AFTER COMPLETION OF CONCRETE** PLACEMENT.

THE TECHNICIAN SHALL BE ACI LEVEL 1 CERTIFIED AND WILL BE REQUIRED TO DEMONSTRATE HIS/HER COMPETENCE AND EXPERIENCE LEVELS TO THE ENGINEER PRIOR TO BEGINNING WORK. THE ENGINEER WILL ORDER THE CONTRACTOR TO REPLACE ANY TECHNICIAN THAT IS NOT VERSED IN THE REQUIRED TESTING PROCEDURE.

THE TECHNICIAN SHALL VERBALLY NOTIFY THE ODOT PROJECT ENGINEER OF ANY FAILING TEST AND SHALL SUBMIT FOLLOW-UP WRITTEN NOTIFICATION TO THE PROJECT ENGINEER OF REMEDIAL ACTION(S) TAKEN. TESTS SHALL BE TAKEN AS SPECIFIED WITHIN THE CONSTRUCTION AND MATERIAL SPECIFICATIONS, CONCRETE MANUAL OR APPROPRIATE SUPPLEMENTAL SPECIFICATION AS LISTED IN THE PROPOSAL GOVERNING THE PROJECT. IT SHALL BE THE SOLE **RESPONSIBILITY OF THE CONTRACTOR TO MAKE IMMEDIATE** CORRECTIONS OR ADJUSTMENTS TO THE CONCRETE MIX VIA DIRECT COMMUNICATION WITH THE CONCRETE SUPPLIER'S PLANT PERSONNEL TO MAINTAIN UNINTERRUPTED COMPLIANCE WITH THE SPECIFICATIONS UPON NOTIFICATION OF CONCRETE MIX NON-COMPLIANCE BY THE CONSULTANT TECHNICIAN. THE PROJECT ENGINEER MAY REQUIRE MORE FREQUENT TESTING AS CONDITIONS WARRANT.

UPON COMPLETION OF DAILY CONCRETE PLACEMENT(S), THE CONCRETE CONSULTANT SHALL PROVIDE THE PROJECT ENGINEER WITH DAILY TEST REPORTS, TE-45'S, INSPECTORS DAILY REPORT AND SUPPORTING DOCUMENTATION FOR EACH ITEM OF CONCRETE WORK PERFORMED SEPARATED BY MIX DESIGN. SUBSEQUENTLY, UPON COMPLETION OF AN ENTIRE CONCRETE SPECIFICATION ITEM, THE CONCRETE CONSULTANT SHALL ALSO PROVIDE THE PROJECT ENGINEER WITH TWO (2) COPIES OF AN ADDITIONAL INSPECTION REPORT BY A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO, WHICH CONTAINS THE TESTING-RESULTS SUMMARY FOR EACH ITEM BY CONTRACT REFERENCE NUMBER AND THE CONSULTANT'S CONCLUSIONS RELATIVE TO SPECIFICATION COMPLIANCE FOR ALL CONCRETE-TESTING WORK.

THE ODOT PROJECT ENGINEER RESERVES THE RIGHT TO MAKE UNANNOUNCED QUALITY-CONTROL TESTS TO VERIFY PROCEDURES USED AND RESULTS BEING OBTAINED BY THE CONTRACTOR.

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THE TECHNICIAN SHALL HAVE THE FULL EFFECT AND AUTHORITY OF AN ODOT PROJECT INSPECTOR IN DETERMINING ACCEPTABILITY OF MATERIAL AND CONCRETE PLACEMENT PRACTICES.

REFUELING AREAS. FUELS, TOXIC/HAZARDOUS MATERIALS, AND CHEMICALS SHALL NOT BE STORED NEAR DRAINAGE WAYS, DITCHES, OR STREAMS. A SPILL KIT IS TO BE MAINTAINED ON-SITE THROUGHOUT CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL IMMEDIATELY TAKE STEPS TO MITIGATE ANY EVENT, SUCH AS A SPILL OF FUELS, OILS, OR CHEMICALS, THAT COULD THREATEN TO CONTAMINATE THE DRINKING WATER SUPPLY. ANY SUCH SPILL OR EVENT SHALL BE REPORTED IMMEDIATELY TO THE GREATER CINCINNATI WATER WORKS (513-591-7970). IF THE SPILL IS A REPORTABLE AMOUNT (PER OHIO EPA'S RELEASE REPORTING REQUIREMENTS), THE CONTRACTOR SHALL CONTACT THE ANDERSON TOWNSHIP FIRE DEPARTMENT (513-688-8400) OR THE OHIO EPA'S SPILLS HOTLINE 1-800-282-9378 FOR CLEAN-UP OF THE SPILL.

M SPECIAL MISC.: CONSULTANT FOR CONCRETE OUALITY CONTROL	
CLUDING TESTING AND INSPECTION (CONTINUED)	
E CONCRETE TECHNICIAN SHALL WORK UNDER THE DIRECTION OF A	
GISTERED PROFESSIONAL ENGINEER, STATE OF OHIO, WHO WILL	
ONITOR THE CONCRETE TEST RESULTS. THE FINAL INSPECTION	
PORTS FOR EACH COMPLETED ITEM SHALL BE SIGNED BY A	
GISTERED PROFESSIONAL ENGINEER, STATE OF OHIO, CERTIFYING	
AT ALL CONCRETE TESTS PROVIDED BY THE CONTRACTOR MET	
PLICABLE CONTRACT REQUIREMENTS. A FINAL REPORT ISSUED BY	
E CONSULTING FIRM SHALL CONTAIN A CERTIFIED STATEMENT OF	
MPLIANCE WITH ODOT SPECIFICATIONS AND ANY OTHER	
NCLUSIONS REGARDING THE CONCRETE MATERIALS INCORPORATED	
TO THE PROJECT. SUCH STATEMENT SHALL BE SIGNED BY A	
GISTERED PROFESSIONAL ENGINEER, STATE OF OHIO. AND, THE	
NCRETE CONSULTANT SHALL BE REQUIRED TO ATTEND MONTHLY	
OGRESS MEETINGS AS REQUIRED BY THE PROJECT ENGINEER.	
DITIONALLY, THE CONTRACTOR SHALL BE REQUIRED TO KEEP A	
STED LIST OF BEAM AND CYLINDER IDENTIFICATION NUMBERS FOR	
E PURPOSE OF IDENTIFYING THE CORRESPONDING PLACEMENT	
CATION AND CONCRETE SPECIFICATION ITEM.	
YMENT SHALL BE BID AS LUMP SUM FOR ITEM SPECIAL MISC.	
NSUITANT FOR CONCRETE OUALITY CONTROL INCLUDING TESTING	
ID INSPECTION. THE ITEM WILL BE PAID FOR AS FOLLOWS:	
UPON APPROVAL OF CONSULTANT	S
PROGRESSIVE EQUIVALENT PAYMENTS 50%	نب
UPON SUBMISSION OF FINAL REPORT	
	ーラ

DRINKING WATER PROTECTION AREA

THIS PROJECT IS LOCATED IN A DRINKING WATER PROTECTION AREA. IN ORDER TO MINIMIZE THE POTENTIAL FOR CONTAMINATION, THE CONTRACTOR SHALL UTILIZE PROPER CONTAINMENT AND DIKING IN

ESIGN AGENCY



119272 HEET TOTAL 42 4

	ITEM 614, MAINTA	INING TRAFFIC					<u>ITEM 614, MA</u>	NINTAINING TRAFFI	C (CONTI			
	A MINIMUM OF 1 L MAINTAINED AT AL THE COMPLETED PA	ANE OF TRAFFIC L TIMES BY USE (AVEMENT.	C IN EACH OF THE EX	DIRECTION S XISTING PAVE	SHALL BE EMENT AND		NOTICE OF CLOSURE SIGNS (W20-H13) SH PRIOR TO THE SCHEDULED ROAD OR RAM NOTICE OF CLOSURE TIME TABLE. AT THE J CHANGEARI E MESSAGE SIGNS MAY BE US					
	NO WORK SHALL BE OPEN TO TRAFFIC D OR SPECIAL EVENTS	E PERFORMED AI DURING THE FOLI S:	ND ALL E. LOWING	XISTING LANI DESIGNATED	ES SHALL BE HOLIDAYS		FLATSHEET SIG SHALL BE EREC TRAFFIC. THEY	N FOR CLOSURE DU TED ON THE RIGHT SHALL BE PLACED S	IRATIONS -HAND S SO AS NC			
	NEW YEAR'S (OBS MEMORIAL DAY FOURTH OF JULY LABOR DAY	SERVED) (OBSERVED)		ELECTION DA THANKSGIVIN CHRISTMAS ((NY ((NOV) IG OBSERVED)		ANY OTHER TR AT OR NEAR THE I RAMPS AS LON	POINT OF CLOSURE.	THE SIG			
	THE PERIOD OF TIM THE DAY OF THE WI FALLS. THE FOLLOW	1E THAT THE LAN EEK ON WHICH T /ING SCHEDULE S	IES ARE T THE HOLII SHALL BE	O BE OPEN D DAY OR SPECI USED TO DE	DEPENDS ON IAL EVENT TERMINE		MERGE AREA 1	MPS, THE SIGN SHA TO AVOID DISTRACT	IL BE ER			
	THIS PERIOD:	τιλε διι ιδνιε	-5				NOTICE OF CLO ITEM	DSURE SIGN TIME T DURATION	ABLE SIGN L			
	OR SPECIAL EVEN	T MUST BE OPE	EN TO TRA	AFFIC			RAMP &	>=2 WEEKS	14 CAI			
	SUNDAY 12:00N MONDAY 12:00 TUESDAY 12:00N	I FRIDAY THROU N FRIDAY THROU N MONDAY THRO	GH 6:00 A JGH 6:00 DUGH 6:0	AM MONDAY AM TUESDAY 0 AM WEDNI	, Y ESDAY		CLOSURES	> 12 HOURS & < 2 WEEKS <= 12 HOURS	7 CALI 2 BUS			
	TUESDAY (GEN./ 5:00 AM TU WEDNESDAY 12:0 THURSDAY 12:00 THURSDAY (THAI 6:00 AM WI	(REG. ELECTION) IESDAY THROUGI DON TUESDAY TH DN WEDNESDAY T NKSGIVING ONLY EDNESDAY THRO	H 12:00 A ROUGH 6 THROUGI () DUGH 6:00	M WEDNESE 5:00 AM THU H 6:00 AM FR 0 AM MOND	DAY RSDAY RIDAY AY		THE SIGN SHAL AND THE NUM H13 SIGN LISTS ADDITIONAL IN DISTRICT RATH	L DISPLAY THE DAT BER OF DAYS OF TH S A PHONE NUMBER NFORMATION. THIS ER THAN THE GENE	E OF THE IE CLOSU R WHICH IS TO BE ERAL SWI			
	FRIDAY 12:00N SATURDAY 12:00	THURSDAY THRC	DUGH 6:0 JGH 6:00	O AM MOND AM MONDA	AY Y		ALL WORK ANI WITH C&MS 62	D TRAFFIC CONTRO 14 AND OTHER APP	L DEVICE. LICABLE			
	LANE/RAMP CLOSU HOURS AFTER ALL E GLOW, FIRE UP THE CONEY ISLAND; ANI	RES ARE NOT PE EVENTS AT RIVER E NIGHT, AND CH D, KENTUCKY DE	RMITTED RBEND M IRISTMAS RBY VIEV	2 HOURS BE USIC CENTER, S NIGHTS OF I VING AT BELT	FORE TO 2 ; BALLOON LIGHTS AT ERRA PARK.		SPECIFICATION CONTROL DEV MATERIALS SH FOR ITEM 614, IN THE PLAN	<i>IS, AS WELL AS THE ICES. PAYMENT FOR ALL BE INCLUDED II MAINTAINING TRA</i>	OHIO M/ ALL LAB N THE LU FFIC, UN			
	RAMP CLOSURES FO	OR INSTALLATION	N OF PHA	SE 1 AND PH	ASE 2							
	PHASE 1A CONSTRU	JCTION OF PAVE	AND RAN MENT WI	EDGE ARE RE	STRICTED		SEQUENCE OF	CONSTRUCTION				
	FROM 6AM TO 9PN DISINCENTIVE IN TH IS RESTRICTED FROI RESTRICTED TIME P	1. THE CONTRAC HE AMOUNT OF ; M FULL USE BY T PERIOD.	TOR SHAI \$XXX FOF THE TRAVI	LL BE ASSESSI R EACH MINU ELING PUBLIC	ED A TE THE RAMP C WITHIN THE	(PRE-PHASE 1A PLANE APPROA ELEVATION PER FOR MAINTAIN	ACH PAVEMENT ANI R BP-3.1. PROVIDE A IING TRAFFIC, CLAS.	D TRANSI A BUTT JO S B.			
	SHOULD THE CONT THE CONTRACTOR S FLEXIBLE WINDOW	RACTOR FAIL TO SHALL BE ASSESS CONTRACT (PN .	MEET AN SED A DIS 129).	IY OF THESE I INCENTIVE PL	REQUIREMENTS ER THE	5,	PRE-PHASE 1B REMOVE AND	REPLACE ALL EXISTI	NG FORV			
	LENGTH AND DURA BE AT THE APPROVA THE IMPACT TO THE RESTRICTIONS OVER IS ANTICIPATED WIT BY THE ENGINEER, S UTILIZATION OF MA OF TRAFFIC DEVICES PROGRESS.	TION OF LANE C AL OF THE ENGIN E TRAVELING PUI R SEGMENTS OF THIN A REASONA SHALL NOT BE PE NINTENANCE S SHALL BE COM	LOSURES NEER. IT IS BLIC. LAN THE PRO BLE TIMI ERMITTEI	AND RESTRIC S THE INTENT IE CLOSURES JECT IN WHIC E FRAME, AS D. THE LEVEL	CTIONS SHALL TO MINIMIZE OR CH NO WORK DETERMINED OF HE WORK IN	(PHASE 1 PLACE ALL TRA AS SHOWN IN PLANING IN TH WESTBOUND U RECONSTRUCT US-52 AND WE DIMENSIONS (SHALL REMAIN	FFIC CONTROL ITEN THE PLANS. PERFOR IE OUTSIDE LANE A JS-52. CONSTRUCT DECK ENDS IN THE ESTBOUND US-52. P ND ELEVATIONS SH	AS FOR N RM ALL S ND SHOL BACKWA OUTSID PLACE AS			
	TRAFFIC SHALL BE N ALL TIMES AND SHA CONTRAOL DEVICES BY THE ENGINEER.	MAINTAINED AT A ALL BE CONTROL S AS REQUIRED A	ALL INTER LED WITH AND SHAL	RSECTIONS AI H FLAGGERS A L BE SUBJECT	ND DRIVES AT AND TRAFFIC T TO APPROVAL		PHASE 2 PLACE ALL TRA AS SHOWN IN	FFIC CONTROL ITEN	/IS FOR N RM ALL S			
E	WINDOW CONTRA	CT TABLE				3	PLANING IN TH WESTBOUND U	<i>IE INSIDE LANE ANE JS-52. CONSTRUCT</i>) SHOULI BACKWA			
	USE THE FOLLOWIN DESCRIPTION OR LOCATION	CALENDER DAYS TO COMPLETE	ERRED TO NCENTIVE PER DAY	V IN THE PRO	POSAL: WINDOW END	~~~~	RECONSTRUCT US-52 AND WE DIMENSIONS &	DECK ENDS IN THE STBOUND US-52. P ND ELEVATIONS SH	INSIDE L LACE ASI QWN IN			
						$\prec \langle \langle \rangle$	SHALL REMAIN	I OPEN.				

IING TRAFFIC (CONTI

ЛЕ Т/	IE TABLE							
	SIGN DISPLAYED							
ΡE	TO PUBLIC							
	14 CALENDAR DAYS PRIOR TO CLOSURE							
S KS	7 CALENDAR DAYS PRIOR TO CLOSURE							
RS	2 BUSINESS DAYS PRIOR TO CLOSURE							

ING TRAFFI	<u>C (CONTINUED)</u>	WORK ZONE MARKINGS AND SIGNS	DELINEATION OF PORTABLE AND PERMANENT BARRIER	
IGNS (W20-) ILED ROAD (IME TABLE. E SIGNS MA CLOSURE DU	H13) SHALL BE ERECTED BY THE CONTRACTOR OR RAMP CLOSURE IN ACCORDANCE WITH THE AT THE APPROVAL OF THE ENGINEER, PORTABLE AY BE USED IN LIEU OF THE STANDARD WRATIONS OF LESS THAN 1 WEEK. THE SIGNS	THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS IDENTIFIED BY THE ENGINEER FOR WORK ZONE PAVEMENT MARKINGS AND SIGNS PER THE REQUIREMENTS OF C&MS 614.04 AND 614.11.	BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE BARRIER (PB) USED FOR TRAFFIC CONTROL; AND, ON PERMANENT CONCRETE BARRIER (INCLUDING BRIDGE PARAPETS) LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE.	
BE PLACED S	O AS NOT TO INTERFERE WITH THE VISIBILITY C)F	BARRIER REFLECTORS SHALL CONFORM TO C&MS 626.	
ONTROL SIG OF CLOSURE. HEY ARE VIS IE SIGN SHA D DISTRACT	SNS. ON ROADWAYS, THEY SHOULD BE ERECTED THE SIGNS MAY BE ERECTED ANYWHERE ON IBLE TO THE MOTORISTS USING THE RAMP. ON LL BE ERECTED WELL IN ADVANCE OF THE ING MOTORISTS.	FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHTTIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO ENSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK SITE EACH NIGHT WHEN THE LIGHTING IS IN PLACE AND OPERATIVE PRIOR TO	EXCEPT THAT THE SPACING SHALL BE AS PER TRAFFIC SCD MT-101.70. OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614.03 AND SCD MT-101.70. WHEN THE PB CONTAINS GLARE SCREEN, ONE SET OF THREE VERTICAL STRIPES OF SHEETING SHALL BE CONSIDERED EQUIVALENT TO AN OBJECT MARKER, ONE-WAY.	
		COMMENCING ANY WORK. IF GLARE IS DETECTED, THE LIGHT	INCREASED BARRIER DELINEATION, AS SPECIFIED HEREIN,	
TIGN TIME T RATION CLOSURE WEEKS WEEKS 2 HOURS 2 WEEKS 12 HOURS	ABLE SIGN DISPLAYED TO PUBLIC 14 CALENDAR DAYS PRIOR TO CLOSURE 7 CALENDAR DAYS PRIOR TO CLOSURE 2 BUSINESS DAYS PRIOR TO CLOSURE	PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.	SHALL BE INSTALLED ON ALL PB AND PERMANENT CONCRETE BARRIER LOCATED WITHIN 5 FEET OF THE EDGE OF THE TRAVELED LANE UNDER EITHER OF THE FOLLOWING CONDITIONS: ALONG TAPERS AND TRANSITION AREAS; OR ALONG CURVES (OUTSIDE ONLY) WITH DEGREE OF CURVATURE GREATER THAN OR EQUAL TO 3 DEGREES.	NOTES
AY THE DATI DAYS OF TH	E OF THE CLOSURE IN MMM-DD FORMAT IE CLOSURE. THE LAST LINE OF THE W20-	ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL OR BIDIRECTIONAL)	THE INCREASED BARRIER DELINEATION SHALL CONSIST OF EITHER DELINEATION PANELS OR THE TRIPLE STACKING OF WORK ZONE BARRIER REFLECTORS.	AFFIC
ATION. THIS N THE GENE	IS TO BE A SPECIFIC OFFICE WITHIN THE RAL SWITCHBOARD NUMBER.	THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S ADDROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM	DELINEATION PANELS SHALL CONSIST OF PANELS OF DELINEATION, APPROXIMATELY 34 INCHES LONG AND 6 INCHES WIDE AND SHALL BE "CRIMPED." PANELS SHALL BE INSTALLED	E OF TF
IC CONTROL OTHER APP	L DEVICES SHALL BE IN ACCORDANCE LICABLE PORTIONS OF THE	THE ROADWAY STANDARDS APPROVED PRODUCTS WEB PAGE.	AND SPACED PER TRAFFIC SCD MT-101.70.	S
ELL AS THE YMENT FOR NCLUDED IN AINING TRA	OHIO MANUAL OF UNIFORM TRAFFIC ALL LABOR, EQUIPMENT AND N THE LUMP SUM CONTRACT PRICE FFIC, UNLESS SEPARATELY ITEMIZED	INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.	TRIPLE-STACKED BARRIER REFLECTORS SHALL CONSIST OF ALIGNING THREE BARRIER REFLECTORS VERTICALLY, AT LOCATIONS WHERE A SINGLE BARRIER REFLECTOR WOULD BE OTHERWISE ATTACHED. THERE SHALL BE NO OPEN SPACE	INTENA
<u>RUCTION</u>		THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT. WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED. THE	BETWEEN THE ADJACENT BARRIER REFLECTORS. THE TRIPLE- STACKED BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THEY SHALL BE SPACED AND ALIGNED PER TRAFFIC SCD MT-101.70.	MA
ΈΝΛΕΝΙΤ ΛΝΙ	TRANSITION TO THE EXISTING BRIDGE DECK	CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.	ALONG RUNS OF INCREASED BARRIER DELINEATION WHERE	
. PROVIDE / AFFIC, CLAS	BUTT JOINT AS PER BP-3.1, INSTALL PAVEMENT	WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.	AS THE ENTIRE LENGTH OF THE RUN OF INCREASED BARRIER DELINEATION, INCLUDING THE SPACES BETWEEN THE INDIVIDUAL DELINEATION PANELS OR STACKS OF BARRIER REFLECTORS.	
E ALL EXISTI	NG FORWARD AND REAR ABUTMENT BEARINGS	5. THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.	PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING. INSTALLING. MAINTAINING AND REMOVING EACH	
NTROL ITEN NS. PERFOR IDE LANE A ONSTRUCT NDS IN THE ND US-52. P VATIONS SH	AS FOR MAINTAINING TRAFFIC RM ALL STRUCTURE REMOVALS & PAVEMENT ND SHOULDER OF EASTBOUND US-52 AND BACKWALL, INSTALL EXPANSION JOINTS, & OUTSIDE LANE AND SHOULDER OF EASTBOUNE LACE ASPHALT SURFACE COURSE TO THE OWN IN THE CROSS SECTIONS. ALL RAMPS	PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.	OF THE ABOVE ITEMS.	
				DESIGN AGENCY
NITOOL ITEN	AS EOD NANINITAINING TRAFFIC	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN		
NIKULITEN	IS FUK WAINTAINING TRAFFIC	۶ ۲		

ONTROL ITEMS FOR I ANS. PERFORM ALL STRUCTURE REMOVALS & PAVEMENT E LANE AND SHOULDER OF EASTBOUND US-52 AND CONSTRUCT BACKWALL, INSTALL EXPANSION JOINTS, & NDS IN THE INSIDE LANE AND SHOULDER OF EASTBOUND ND US-52. PLACE ASPHALT SURFACE COURSE TO THE VATIONS SHOWN IN THE CROSS SECTIONS. ALL RAMPS

> THE TEMPORARY PAVEMENT WILL REMAIN IN PLACE. THEREFORE, 6" OF AGGREGATE SHALL BE PLACED AND SHALL NOT BE SUBSTITUTED WITH ASPHALT.



PER PLAN THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A CHANGEABLE MESSAGE SIGN. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS AVAILABLE ON THE OFFICE OF MATERIALS MANAGEMENT WEB PAGE. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 800 FEET AND 650 FEET, RESPECTIVELY.

ITEM 614. PORTABLE CHANGEABLE MESSAGE SIGNS. AS

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. THE PCMS SHALL BE DELINEATED IN ACCORDANCE WITH C&MS 614.03.

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

(THE CONTRACTOR SHALL IMPLEMENT A SYSTEM WHEREBY CHANGEABLE MESSAGES WILL BE IMPLEMENTED WITHIN 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 C&MS 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.

NOTIFICATION OF TRAFFIC RESTRICTIONS

PER PLAN (CONTINUED)

REQUIRES THEIR USE.

DESCRIBED WORK.

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE LISTED CONTACTS. THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS. INFORMATION SHOULD INCLUDE. BUT IS NOT LIMITED TO. ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION. DURATION OF RESTRICTION. NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION TIME TABLE							
	DURATION OF	NOTICE DUE TO					
	CLOSURE	LISTED CONTACTS					
		21 CALENDAR DAYS					
	>- Z WEENS	PRIOR TO CLOSURE					
RAMP & ROAD	> 12 HOURS &	14 CALENDAR DAYS					
CLOSURES	< 2 WEEKS	PRIOR TO CLOSURE					
		4 BUSINESS DAYS					
	< 12 HOUKS	PRIOR TO CLOSURE					
		14 CALENDAR DAYS					
LANE CLOSURES &	>= 2 WLLN3	PRIOR TO CLOSURE					
RESTRICTIONS		5 BUSINESS DAYS					
	< Z WEEKS	PRIOR TO CLOSURE					
START OF		11 CALENDAD DAVS					
CONSTRUCTION &	NI/A						
TRAFFIC PATTERN	1 1/74						
CHANGES							

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE. CONTACT THE FOLLOWING: -DISTRICT PUBLIC INFORMATION OFFICER BY EMAIL AT DOT.D08.PIO@DOT.OHIO.GOV -DISTRICT PERMIT SECTION BY EMAIL AT D08.PERMITS@DOT.OHIO.GOV -CENTRAL OFFICE SPECIAL HAUL PERMITS SECTION BY EMAIL AT HAULING.PERMITS@DOT.OHIO.GOV -STEVE SIEVERS, ANDERSON TOWNSHIP BY EMAIL AT SSIEVERS@ANDERSONTOWNSHIPOH.GOV

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS

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

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

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN _4_ SIGN MONTH ASSUMING _2_ PCMS SIGN(S) FOR _2_ MONTH(S)

DELINEATION OF TEMPORARY AND PERMANENT GUARDRAIL	ľ
BARRIER REFLECTORS SHALL BE INSTALLED ON ALL	F
TEMPORARY GUARDRAIL USED FOR TRAFFIC CONTROL; AND,	
ON ALL PERMANENT GUARDRAIL LOCATED WITHIN 5 FEET	
OF THE EDGE OF THE ADJACENT TRAVEL LANE. BARRIER REELECTORS SHALL CONFORM TO CRIMS 626 AND THE	
SPACING SHALL CONFORM TO CAMIS 020 AND THE	
OBJECT MARKERS SHALL BE INSTALLED ON ALL TEMPORARY	
AND PERMANENT GUARDRAIL LOCATED WITHIN 5 FEET OF THE	
EDGE OF THE ADJACENT TRAVEL LANE. GUARDRAIL-MOUNTING	
OF OBJECT MARKERS SHALL BE MADE BY INSTALLING THE	
OBJECT MARKERS ON THE EXTENSION BLOCKS RATHER THAN	
DIRECTLY ONTO THE GUARDRAIL ITSELF. OBJECT MARKERS	
SHALL CONFORM TO C&MS 614.03 AND THE SPACING SHALL BE	
APPROXIMATELY 50 FEET WITH A 25 FOOT OFFSET FROM THE	
BARRIER REFLECTORS.	
PATIVIENT SHALL BE FULL CUIVIPENSATION FOR ALL WATERIAL, LABOR INCIDENTALS AND FOLLIDMENT NECESSARY FOR	
FURNISHING, INSTALLING. MAINTAINING AND REMOVING THE	L
ABOVE ITEM(S).	í C
TENA 61A I ANAI ENICODOCRACHIT OFFICED (MUTU DATDOL CAD)	C
FOR ASSISTANCE DI IRING CONSTRI ICTION ODEDATIONS	٨
	Z
USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS	-
UTHER THAN THE USES SPECIFIED BELOW WILL NOT BE	L
REKIVILLED AL PROJECT COST. LEUS SHOULD NOT BE USED WHERE THE OMILITOD INITENDS THAT ELACCEDS DE LISED	ה היי
WITCHE THE OWNTED INTENDS THAT FLAGGERS DE USED.	
IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE	٨
UNIVICE, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR	
COMPLETE MARKINGS OF THE ADDODDIATE LAND ENFORCEMENT	7
AGENCY) SHALL RE PROVIDED FOR THE FOLLOW/ING TRAFFIC	7
CONTROL TASKS:	S
DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE	Ļ
SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS	F.
REQUIRED.	F ,
DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING	<i>ב</i>
THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF	I
TRAFFIC, OR WHEN TRAFFIC NEEDS TO BE DIRECTED	F
THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO	7
THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH	, C
A KED LIGHT).	_
ΙΝ Αυσιτιών το της κευωκείνεντ ογ σωνία ΑΝΟ ΤΗΣ ΟΜΠΤΩΣ Α ΠΝΙΕΩΡΜΕΣΤΕΩ ΜΊΤΗ ΑΝ ΩΕΕΙΩΙΑΙ ΒΑΤΡΩΙ ΔΑΡ	7
CAR WITH TOP-MOLINITED FMFRGENCY FLASHING LIGHTS AND	7
COMPLETE MARKINGS OF THE APPROPRIATE I AW FNFORCEMENT	F
AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC	S
CONTROL TASKS AS APPROVED BY THE ENGINEER:	F
EAR LANE CLASHRES, DHRING INITIAL SET HID DEDIADS	F
TEAR DOWN PERIODS SURSTANTIAL SEI-UP PERIODS,	S I
POINT OR WHEN NEW LANE CLOSURF ARRANGEMENTS ARE	L F
INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR	, 7
THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC	, C
CONTROL SETUP).	_
FOR OPERATIONS WITHOUT POSITIVE PROTECTION	L
OCCURRING WITHIN 10 FEET OF AN OPEN TRAVELED LANE	٨
THAT MEET ALL OF THE FOLLOWING CRITERIA:	F
ON A MULTI-LANE DIVIDED INTERSTATE, OTHER	C
FREEWAY OR EXPRESSWAY; AND	Ε
AN AUTHORIZED SPEED LIMIT OF 45 MPH OR GREATER	S
ΙΗΑΙ ΙΣ ΙΝ ΕΕΕΕ(.Ι ΑΙ ΤΗΕ ΤΙΜΕ ()Ε ΤΗΕ ()ΡΕΚΔΤΙΟΝΕ	

HIGHER PERCENT TRUCKS) "WITHOUT POSITIVE PROTECTION" MEANS USE OF DRUMS, CONES, SHADOW VEHICLE, ETC, WITHOUT PROTECTION FROM PORTABLE BARRIER OR OTHER RIGID BARRIER ALONG THE WORK AREA. THIS PHRASE DOES NOT APPLY TO CASES WHERE POSITIVE PROTECTION IS REQUIRED. MOBILE OPERATIONS ARE REGARDED AS "WITHOUT POSITIVE PROTECTION". FOR WORK ZONES USING A COMBINATION OF BARRIER AND TEMPORARY TRAFFIC CONTROL DEVICES (CONES, DRUMS, ETC), THE DESIGNATION SHALL BE BASED UPON THE TYPE OF DEVICES USED IN THE AREA THAT WORKERS ARE LOCATED.

AND, AADT OF 50,000 (OR AADT OF 30,000 WITH 25% OR

ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS (CONTINUED) IF MULTIPLE ACTIVE LOCALIZED QUALIFYING WORK AREAS OCCUR WITHOUT POSITIVE PROTECTION, PER MAINLINE TRAFFIC DIRECTION, PROVIDE A UNIFORMED LEO AND OFFICIAL PATROL CAR IN ADVANCE OF	
THE FIRST ACTIVE WORK AREA THAT DRIVERS WILL ENCOUNTER; OR THE ACTIVE WORK AREA LATERALLY CLOSEST TO THE OPEN TRAVELED LANE; OR OTHER LOCATION AS APPROVED BY THE ENGINEER. THE UNIFORMED LEO AND OFFICIAL PATROL CAR MAY RELOCATE AMONG THE LISTED LOCATIONS AS APPROPRIATE AS THE OPERATIONS PROCEED IN THE LOCALIZED QUALIFYING WORK AREAS.	
IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION (OR AT THE POINT OF ROAD CLOSURE), AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONES.	NOTES
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.	F TRAFFIC
THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES 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.	1AINTENANCE O
ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.	2
THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE THAT SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.	
LEOS (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) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.	DESIGN AGENCY
ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 200 HOURS	
THE HOURS PAID SHALL INCLUDE ANY 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 A LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

ESIGNER GTF

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REF NO.	SIDE	WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL) FOR 24" WIDE HAZARDS	WORK ZONE DOTTED LINE, CLASS I, 8", 740.06, TYPE I	WORK ZONE EDGE LINE, CLASS I, 740.06, TYPE I	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 740.06, TYPE I	BARRIER REFLECTOR, TYPE 1 (ONE WAY)	
		EACH	FT	FT	FT	EACH	E,
AT-1	RT	1					_
PCB-1	RT					5	+
PCB-2	LT					2	
EW-1	RT			715			
EW-2	RT			890			1
EY-1	RT			1065		25	1
EY-2	LT			165			
DL-1	RT		315				
СН-1	RT				355		
PV-1	RT						
PV-2	LT						<u> </u>
OTALS C	CARRIED TO	1	315	2835	355	27	





		614	614	614	614	615	
REF NO.	SIDE	WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL) FOR 24" WIDE HAZARDS	WORK ZONE EDGE LINE, CLASS I, 740.06, TYPE I	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 740.06, TYPE I	BARRIER REFLECTOR, TYPE 1 (ONE WAY)	PAVEMENT FOR MAINTINAING TRAFFIC , CLASS B	
		EACH	FT		EACH	SQ YD	
AT-1	LT	1					
PCB-1	RT				6		
PCB-2	LT				10		
EY-1	RT		425				<u> </u>
EY-2	LT		800				
EW-1	RT		250				
EW-2	LT		940				
EW-3	LT		215				
СН-1	LT			215			
PV-1						20	
PV-2						15	
PV-3						95	
PV-4						260	
TALS C	ARRIED TO	1	2630	215	16	390	



IODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/7/2024 TIME: 1:34:13 PM USER: gfreeman v:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\119272\400-Engineering\MOT\Sheets\25075MI



HAM US 52 35.89

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/7/2024 TIME: 9:44:36 AM USER: gfreeman pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 08\Hamilton\119272\400-Engineering\MOT\Sheets\25



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ZING TYPE I			DNIN			1. SEE STA FOR ADD	ANDARD CONST ITIONAL DETAIL	TRUCTION DRA LS NOT SHOWI	WING MT- V ON SHEET
VNELIZ 40.06,	ECTOR WAY)	ECTOR WAY)	NNTAL SS B	RRIER, RED		2. FOR MA	AINTENANCE O T 8.	F TRAFFIC SEC	TIONS,
CHAI 2", 7.	REFLI	REFLI	R MA	LE BA		3. THE LE	FT DOWN ARRO	OW SHALL BE	COVERED W
ZONE SS I, 1	RRIER PE 1	RRIER PE 2	NT FC RAFFI	RTABI UNAN		A LANE CI SIGN (US-	LOSED OVERLA -52 EAST TO NE E IS CLOSED TO	Y ON THE EAST W RICHMONE	D) SINCE TH
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FI	EACH		SQYD	FI			WORK AREA		
		9			-		PAVEMENT FC	DR MAINTAINII	NG TRAFFIC
		8				XXX	COVER CONFL	ICTING PAVEN	IENT MARK
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	Δ			170					
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	C	H-1)				Col (	NEX	(EW-3)	(PV-2)
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			$\frac{}{\cdot \cdot \cdot}  \underbrace{ $	<u>S. 52</u>	· - · - ·	· · ·	- • • •	• • •	• • •
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uu						<i>EW-2</i> (	PV-1		0 0/0
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		614	614	614	614	614	6.
REF NO.	SIDE	WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL) FOR 24" WIDE HAZARDS	WORK ZONE EDGE LINE, CLASS I, 740.06, TYPE I	WORK ZONE DOTTED LINE, CLASS I, 8", 740.06, TYPE I	BARRIER REFLECTOR, TYPE 1 (ONE WAY)	BARRIER REFLECTOR, TYPE 2 (ONE WAY)	OBJECT MARKER
		EACH	FT		EACH	EACH	ΕÆ
EW-1	LT		250		4	2	
EW-2	RT		555		4	9	-
EY-1	LT		1170				
EY-2	RT		570				
DL-1	LT			725			
AT-1	RT	1					
PCB-1	RT				10		-
PCB-2	LT				11		
PV-1	LT				10		
PV-2	RT				11		
TOTALS C. Subsumma	ARRIED TO RY	1	2545	725	29	11	4



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	Wayls			4								
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		PART.		ITEM	GRAND		
		01/NHS/21		EXT	TOTAL	UNIT	
		0.09	200	15050	0.09	NALLE	
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		ستب	<u> </u>		<del>ui</del> u		
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		10	253	02000	10	СҮ	PAVEMENT REPAIR
		4,886	254	01001	4,886	SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PL
		504	407	13900	504	GAL	TACK COAT, 702.13
					257		ASPHALI CUNCRETE SURFACE CUURSE, 12.5 MINI, 14
							E
		167	659	00300	167	СҮ	TOPSOIL
		1,500	659	10000	1,500	SY	SEEDING AND MULCHING
		75	659	14000	75	SY	REPAIR SEEDING AND MULCHING
		0.2	654	11000	0.2	TON	COMMERCIAL FERTILIZER
		0.31	659	31000	0.31	ACRE	
YYYY	YYYY	8.3	$\begin{array}{c} 659 \\ 7 7 823 \\ 7 7 7 7 7 7 \\ 7 7 7 7 7 7 7 7 7 7 7 $	35000	8.3	MGAL	
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		15	621	00100	15	EACH	RPM
		15	621	54000	15	EACH	RAISED PAVEMENT MARKER REMOVED
		60	630	03100	60	FT	GROUND MOUNTED SUPPORT, NO. 3 POST
		44.5	630	80100	44.5	SF	SIGN, FLAT SHEET
$\gamma \gamma \gamma \gamma \gamma$	Y Y Y Y			( YOTOF Y			
		0.44	644	00104	0.44		EDGE LINE, 6"
·····	·····						
							STRUCTURE OVE
							SEE SHEET 34
							MAIN
$\sim$	$\sim$	200	614		200	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR
		4	614	12380	4	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZAR
		91 28	614	13310	28		BARRIER REFLECTOR, TYPE I (ONE WAY)
		81	614	13350	81	FACH	OBJECT MARKER, ONE WAY
$\dots$	uu	uiu	min				
$\sim$	$\sim$	2.66	614	22200	2.66	MILE	WORK ZONE EDGE LINE, CLASS 1, 4", 740.06, TYPE 1
		2,910	614	24404	2,910	FT	WORK ZONE DOTTED LINE, CLASS I, 8", 740.06, TYPE
		1,080	614	23410	1,080	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 740.0
		4	614	18600	4	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN
		1,540	615	25001	1,540	<u> </u>	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS
·····	·····	2,080			2,080		PURIABLE BARRIER, UNANCHURED
		LUMP	108	10000	LS		CPM PROGRESS SCHEDULE
		LUMP	614	11000	LS		MAINTAINING TRAFFIC
		LUMP	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING
		LUMP	624	10000	LS		MOBILIZATION

	SEE	
DESCRIPTION	SHEET NO.	
ROADWAY		
~ RAVEMENT		
LAN (D=2.0")	2	
PE A (448)		
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		AL 5
FR 20 FOOT SPAN (HAM-52-3589)	\mathcal{S}	ER/
		EN
ITENANCE OF TRAFFIC		ש
ASSISTANCE		
(UNIDIRECTIONAL)		
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D6, TYPE I		
PER PLAN	5	
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INCIDENTALS		
		DESIGN AGENCY
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		119272 SHEET ТОТАІ
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							209	┼──┼		204	407			442	<u>.</u>			611		
	S	STATION	_		PAVEMENT				PAVEME			AS	PHALT CONCRET	E ASPHAL		SURFACE		2	К	
			GTF	PAVEMENT	AREA (CADD	PAVEMENT	RESHAPING			CONCRETE, FR PLAN	TACK COAT,		FACE COURSE, 12 MM TYPE & (448)	2.5 COURSE	E, 12.5 MM, ΤΥ Λαρίδρι ε τηι	́РЕА, (448) СК)		C INLET	1 2	
ROUTE				AREA	GENERATED	WIDTH	UNDER		AS F		0.08 GAL/SQ		·····, 117 ⊑ A, (440)	(GR.)		ADJUSTED	TO CONTES	
	EDOM	то			AREA) Surface	•	GUARDRAIL				YD	ТНІС	СК-	AVE. THI	ск-			GRADE	2	
	FROM	10							DEPIN			NES	SS	NESS				8	3	
			FT	SQ YD	SQ FT	FT	MILE		INCHES	SQ YD	GAL	INCH	ES CU YD	INCHE	S	CU YD		EACH		
			-		-	-				SEASON 1			_				-	2		
WB HAM SR 52	1804+31.82	1804+56.72	25	66	598	24'			2.00	66	5.3			0.75		1.4			TRANSITION & BUTT JOINT PER BP-3.1	
VVB HAIVI SR 52	1806+18.88	1806+45.91	21	12	649	24			2.00	12	5.8			0.75		1.5		<u>}</u>	KANSITION & BUTT JOINT PER BP-3.1	
EB HAM SR 52	1804+01.39	1804+26.39	25	67	600	24'			2.00	67	5.3			2.00		3.7		8	TRANSITION & BUTT JOINT PER BP-3.1	
EB HAM SR 52	1805+87.59	1806+12.83	25	67	606	24'			2.00	67	5.4			2.00		3.7		ξ	RANSITION & BUTT JOINT PER BP-3.1	
																		<u> </u>		
										SEASON 2								Ę		
																		2	WEDGE COURSE TAPERS TO 0" AT	
WB HAM SR 52	1803+60.00	1804+31.70	72	303	2725	38'	0.01		2.00	303	48.4	2.0	0 17	0.75		6.3		8	BEGINNING	
																		ξ	1.50" MAX. THICKNESS	
WB HAM SR 52	1804+31.70	1804+56.72	25	67	600	24'	0.005		2.00	67	10.7	2.0	$\begin{array}{c c} 0 & 4 \\ \hline 0 & 4 \end{array}$	1.00		1.9		<u>{</u>		
WB HAM SR 52	1806+18.88	1806+43.64	25	66	594	24' 8' (LT)	0.005		2.00	66	10.6	2.0	0 4	1.00		1.8		<u>}</u>		
WB HAM SR 52	1806+18.88	1806+43.64	25	36	322	5' (RT)	0.005		2.00	36	5.7	2.0	0 2	1.00		1.0		8	В	S ::
						- (/												ξ	WEDGE COURSE TAPERS TO 0" AT BEGINNING	
WB HAM SR 52	1806+43.64	1806+75.00	31	153	1380	44'					12.3			0.50		2.1		8	AND END	
																		ξ	2.25" MAX. THICKNESS	z
WBHAMSR 52	1806+43.64	1807+12.50	69	337	3030		~~ 9.01~~	\cdots	2.00	1424	4445	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	0, <u>19</u>	\sim				<u></u>		
(WB HAM SR 52)	1807+12.50	1810+51.39 入人人人人人人人人人	339			38			2.00		114.5 X X X X X X X X X X X		$\begin{array}{c} 0 \\ \end{array}$					<u> </u>		
																		2	WEDGE COURSE TAPERS TO 0" AT	
EB HAM SR 52	1803+26.59	1804+01.39	75	316	2842	38'	0.01		2.00	316	50.5	2.0	0 18	1.25		11.0		5	BEGINNING	
																		2	3.00" MAX. THICKNESS	
EB HAM SR 52	1804+01.39	1804+26.39	25	36	325	8' (LT)	0.005		2.00	36	5.8	2.0	0 2	2.25		2.3		8	2	
	4004+04-00	1001:00.00		07	000	5' (RT)	0.005		0.00	07	40.7			0.05		4.0		<u> </u>		
EB HAM SR 52 EB HAM SR 52	1804+01.39	1804+26.39	25	67	600	24'	0.005		2.00	67	10.7	2.0	$\begin{array}{c c} 0 & 4 \\ \hline 0 & 4 \end{array}$	2.25		4.2		-{		ST
EB HAM SR 52	1805+87.59	1806+12.83	25	36	328	8' (ËT)	0.005		2.00	36	5.8	2.0	0 2	2.00		2.0		7		L Ū
						5' (RT)												8	WEDGE COURSE TAPERS TO 0" AT	
EB HAM SR 52	1806+12.83	1806+75.00	62	262	2362	38'					21.0			2.00		14.6		ξ	Đ ND	
																		<u>}</u>	3.00" MAX. THICKNESS	
EB HAM SR 52	1806+12.83	1807+12.50	100	421	3787	38'	0.02		2.00	421	33.7	2.0	0 23					Ę	2	
EB HAIVI SR 52	1607+12.50	1010+01.39	339	1431	12070	30			2.00	1431	114.5	2.0	0 79							
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	JIALS CAI	RRIED TO GEN	IERAL 5				0.09			4000	504		257			01		<u> </u>		
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COUNTY-	STA			LANE	LINE 6"	EDGI	E LINE 6"	EDGE LINE	6"			5	ROUTE					I L L L L L L L L L L L L L L L L L L L	3	
ROUTE	• • •		-		1		-	i		REMAF	RKS	کل ا		FROM	ТО				WHITE/	
				DASHED								3							RED	
	FROM	то	MILE	MILE		WHITE		YELLOW		-		ξ				FT	EACH	EACH	EACH	DESIGN AGEN
WB HAM SR 52	1803+60.00	1804+56.72	0.02	0.02		0.02		0.02					WB HAM SR 52	2 1803+60.00	1804+31.70	72	1	1		
WB HAM SR 52	1804+56 72	1806+18 88								BRIDGE No.: HAM-52-3589	(EXISTING PAVEMENT	ξ		2 1804+31.70	1804+56.72	25				
	1000-10-00	4007:40.50	0.02	- 0.00		- 0.00				WARNINGS IU KEMAIN)		_	WB HAM SR 52	2 1806+43 64	1807+12.50	69		1		
WR HAM SR 52	<u> </u>	1810+51 30	0.07	<u>, √0.₩Z</u> 0 07		<u> </u>	\square	0.07				- ζ	WB HAM SR 52	2 1807+12.50	1810+51.39	339	5	5	5	
	1001 12.00		۰.0 <i>.</i> ۸ ۸ ۸ ۸									- 2							】	
EB HAM SR 52	1803+26.59	1804+26.39	0.02	0.02		0.02		0.02				- γ	EB HAM SR 52	1803+26.59	1804+01.39	75	1	1	1 3	
FR HAM SR 52	1804+26 20	1805+87 59								BRIDGE No.: HAM-52-3589	(EXISTING PAVEMENT	7 2	EB HAM SR 52	1804+01.39	1804+26.39	25			REAR APPROACH SLAB	
			0.00	0.00						MARKINGS TO REMAIN)			EB HAM SR 52	1805+87.59	1806+12.83	25			FORWARD APPROACH SLAB	REVIEW/
EB HAM SR 52	1805+87.59 1807±1250	1807+12.50	0.02	0.02		0.02		0.02				- <u>}</u>		1800+12.83	1810±51 20	100 220	5	<u>ک</u> ج	<u> </u>	JDO MM-
	1007 12.00	1010101.08	0.07	0.07	<u>I</u>	0.07		0.07										J		PROJECT ID
TOTALS CAR	RRIED TO	GENERAL SUM	1MARY	().22).22	0.22				ζ I				KAL	15	15	15	
												<u>}</u>		SUMMA	КĬ				Ź	1.8
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HAM US 52 35.89

PAVEMENT MARKING CALCULATIONS											
	STATION		TOTAL			6					
COUNTY-				LANE LINE 6"		EDGE LINE 6"		EDGE LINE 6"		REMARKS	
				DASHED							
	FROM	ТО	MILE	MILE		WHITE		YELLOW			
WB HAM SR 52	1803+60.00	1804+56.72	0.02	0.02		0.02		0.02			
WB HAM SR 52	1804+56.72	1806+18.88								BRIDGE No.: HAM-52-3589 (EXISTING PAVEMENT MARKINGS TO REMAIN)	
WB HAM SR 52	1806+18.88	1807+12.50	~~P.Q2~~	$- \theta.\theta 2 - $	\sim	~~0.02~~	\sim	~~~0,02~~~	L C		
WB HAM SR 52	1807+12.50	1810+51.39	0.07	0.07		0.07		0.07	7		
Jun	uu	·····	·····	·····	uuu	·····	·····	·····	7		
EB HAM SR 52	1803+26.59	1804+26.39	0.02	0.02		0.02		0.02			
EB HAM SR 52	1804+26.39	1805+87.59								BRIDGE No.: HAM-52-3589 (EXISTING PAVEMENT MARKINGS TO REMAIN)	
EB HAM SR 52	1805+87.59	1807+12.50	0.02	0.02		0.02		0.02			
EB HAM SR 52	1807+12.50	1810+51.39	0.07	0.07		0.07		0.07			
TOTALS CARRIED TO GENERAL SUMMARY				0.22		0.22		0.22			

							\sim				
		442				$\left[\begin{array}{c} \cdot \cdot \cdot \cdot \\ \cdot \end{array}\right]$	611	<u>д</u>			
SPHALT CONCRETE RFACE COURSE, 12.5 MM, TYPE A, (448) AVE THICK			LT CONCRETE E, 12.5 MM, TY VARIABLE THI	SURFACE PE A, (448) CK.)	RFACE A, (448)		NLET JSTED TO GRADE		NOTES		
ESS	-	AVE. THI NESS	S			2		3			
CHES	S CU YD	INCHE	S	CU YD			EACH	13			
		0.75		1.4 1.5			1	TRANSITION	& BUTT JOINT PER BP-3.1 & BUTT JOINT PER BP-3.1		
		2.00		3.7 3.7				TRANSITION	& BUTT JOINT PER BP-3.1 & BUTT JOINT PER BP-3.1		
						$\frac{2}{5}$		3			
.00	17	0.75		6.3				WEDGE COURSE TAPERS TO 0" AT BEGINNING 1.50" MAX. THICKNESS			
.00	4	1.00		1.9				REAR APPROACH SLAB			
00	2	1.00		1.0							
.00		0.50		2.1				VEDGE COURSE TAPERS TO 0" AT BEGINNING AND END 1.25" MAX. THICKNESS			ANTITIE
.00	79							WEDGE COURSE TAPERS TO 0" AT) QU
.00	18	1.25	1.25			<u>}</u>		BEGINNING 3.00" MAX. THICKNESS BEAR APPROACH SLAB FORWARD APPROACH SLAB			STIMATED
.00	2	2.25		2.3		5					
.00	4	2.25	2.25			- <u></u>					
.00	2 2.00			2.0							l ŭ
		2.00	2.00					WEDGE COURSE TAPERS TO 0" AT END 3.00" MAX. THICKNESS			
.00 .00	23 79										
\checkmark	257			61		5	1			_	
\sim									~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
							RPM CALCULATIONS				
					ITEM 621					3	3
							PRISMA REFLEC	TOR COLORS			
Γ		STA	STATION			EMOVED	TWO-WAY		REMARKS	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
	ROUTE				Ľ	RPM R					
		FROM	ТО	ET			N N	/HITE/ RED			
┢	WB HAM SR 52	1803+60.00	1804+31.70	72	1	1		1		-13	DESIGN AGENCY
	WB HAM SR 52	1804+31.70	1804+56.72	25					REAR APPROACH SLAB]2	
\vdash	WB HAM SR 52 WB HAM SR 52	1806+18.88 1806+43.64	1806+43.64 1807+12.50	25 69	1	1		1	FORWARD APPROACH SLAB	-12	
	WB HAM SR 52	1807+12.50	1810+51.39	339	5	5		5			
	EB HAM SR 52	1803+26.59	1804+01.39	75	1	1		1			
	EB HAM SR 52	1804+01.39	1804+26.39	25						-13	designer GTF
┢	EB HAM SR 52	1806+12.83	1807+12.50	 100	2	2		2		-13	REVIEWER
	EB HAM SR 52	1807+12.50	1810+51.39	339	5	5		5			JDU MM-DD-
TOTALS CARRIED TO GENERAL SUMMARY				15	15		15		33	119272 SHEET TOTAL	
										—)	±0 4Z