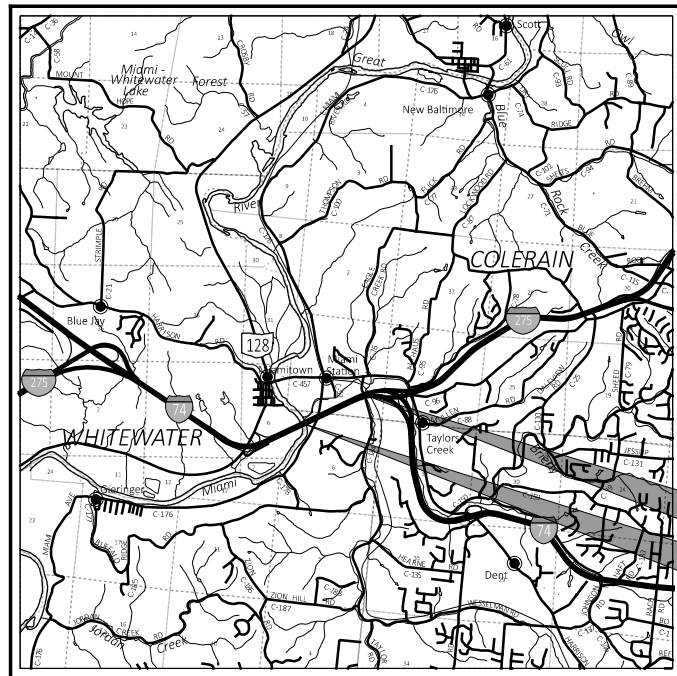


STATE OF OHIO DEPARTMENT OF TRANSPORTATION

HAM-IR 74-8.38/9.11

WHITEWATER TOWNSHIP
HAMILTON COUNTY



LOCATION MAP

LATITUDE: N39°12'35" LONGITUDE: W84°41'54"



PORTION TO BE IMPROVED	_____
INTERSTATE HIGHWAY	=====
FEDERAL ROUTES	=====
STATE ROUTES	=====
COUNTY & TOWNSHIP ROADS	=====
OTHER ROADS	_____

DESIGN DESIGNATION	HAM-74-8.04 - 8.44	HAM-74-8.44 - 9.23
CURRENT ADT (20)	83,000	83,000
DESIGN YEAR ADT (20)	94,500	93,000
DESIGN HOURLY VOLUME (20)	12,500	12,500
DIRECTIONAL DISTRIBUTION	64.5%	58.5%
TRUCKS (24 HOUR B&C)	18,900	18,600
DESIGN SPEED	70 MPH	70 MPH
LEGAL SPEED	65 MPH	65 MPH
DESIGN FUNCTIONAL CLASSIFICATION:		
(01) URBAN INTERSTATE		
NHS PROJECT	YES	YES

DESIGN EXCEPTIONS

NONE

ADA DESIGN WAIVERS

NONE

UNDERGROUND UTILITIES
Contact Two Working Days
Before You Dig

OHIO811.org
Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

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

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STANDARD CONSTRUCTION DRAWINGS		SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
RM-4.2	4/17/20	800-2023 7/20/24	ASBESTOS INSPECTION REPORT 6/7/24
BR-1-13	1/17/14	832 7/21/23	
GSD-1-19	1/15/21	809 1/19/24	
PCB-91	7/17/20	909 1/19/24	
MT-95.30	7/19/19		
MT-95.40	7/21/23		
MT-95.45	7/21/23		
MT-97.10	4/19/19		
MT-103.10	1/21/22		
MT-105.10	1/17/20		
MT-101.70	4/21/23		
MT-101.75	7/21/23		

DISTRICT DEPUTY DIRECTOR

Tammy K. Campbell
Tammy K. Campbell

DIRECTOR, DEPARTMENT OF TRANSPORTATION

Pamela Boratyn
Pamela Boratyn

ENGINEER'S SEAL
ALL PLAN SHEETS



FEDERAL PROJECT NUMBER

E230030

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

PAINT BRIDGE HAM-74-0838L/R WHICH CARRIES I-74 OVER THE GREAT MIAMI RIVER AND REPAIR STRUCTURAL STEEL FOR HAM-74-0911L WHICH CARRIES WB I-74 OVER WESSELMAN ROAD AND TAYLOR CREEK. PERFORM OTHER MINOR BRIDGE AND RETAINING WALL MAINTENANCE.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 0.1 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.0 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: 0.1 ACRES
N.O.I NOT REQUIRED

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.

HAM-IR 74-8.38/9.11

MODEL: Sheet PAPER SIZE: 17x11 (in.) DATE: 10/14/2024 TIME: 5:43:02 PM USER: chowara4 pwc:\ohio\dot-pw-bentley.com\shoto\dot-pw-02\Documents\01 Active Projects\District 08\Hamilton\114650400-Engineering\Roadway\Sheets\114650_GTO01.dgn

TITLE SHEET

DESIGN AGENCY



DESIGNER
CAH

REVIEWER
JTO 02-01-24

PROJECT ID
114650

SHEET	TOTAL
01	22

ITEM 614- MAINTAINING TRAFFIC

WESSELMAN ROAD

MAINTAIN A MINIMUM OF 1 LANE OF TWO-WAY TRAFFIC USING FLAGGERS DURING WORK HOURS.

I-74

MAINTAIN ALL EXISTING LANES IN EACH DIRECTION AT ALL TIMES, EXCEPT LANE CLOSURES ARE PERMITTED IN ACCORDANCE WITH THE LANE VALUE CONTRACT TABLE, BY USE OF THE EXISTING PAVEMENT.

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR SPECIAL EVENTS:

Table with 2 columns: Holiday/Event and Date/Day. Includes New Year's, Memorial Day, Fourth of July, Labor Day, General/Regular Election Day, Thanksgiving, Christmas, and Other Holiday or Special Event.

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR SPECIAL EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

Table with 2 columns: Day of Holiday or Special Event, Time All Lanes Must Be Open to Traffic. Lists days from Sunday to Saturday with corresponding time ranges.

DURING THE SAME PERIODS, MAINTAIN PEDESTRAIN ACCESS IF PEDESTRIAN ACCESS WAS PRESENT PRIOR TO CONSTRUCTION. SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE PER THE LANE VALUE CONTRACT (PN 127).

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC TO CLOSE A SHOULDER AND LANE USING PORTABLE BARRIER PER MT-95.40 AND MT-95.45 AT HAM-74-0838L/R AND HAM-74-0911L. PORTABLE BARRIER SHALL BE USED TO PROTECT EQUIPMENT STAGING IN THE MEDIAN.

- ITEM 614 - WORK ZONE IMPACT ATTENUATOR = 4 EACH
ITEM 622 - PORTABLE BARRIER = 3,000 FT
ITEM 202 - BRIDGE TERMINAL ASSEMBLY REMOVED = 3 EACH
ITEM 202 - GUARDRAIL REMOVED = 500 FT
ITEM 202 - IMPACT ATTENUATOR REMOVED = 2 EACH
ITEM 202 - ANCHOR ANCHOR ASSEMBLY REMOVED = 2 EACH
ITEM 606 - IMPACT ATTENUATOR, TYPE 1 (CAT SYSTEM) = 2 EACH
ITEM 606 - BRIDGE TERMINAL ASSEMBLY, TYPE 1 = 3 EACH
ITEM 606 - GUARDRAIL, TYPE 5 = 500 FT
ITEM 606 - ANCHOR ASSEMBLY, TYPE 'T' (TEMPORARY) = 2 EACH

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 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.

CONTRACTOR SITE ACCESS/STAGING

ACCESS TO/FROM THE MEDIAN EAST OF THE STRUCTURE (BETWEEN THE GREAT MIAMI RIVER AND E MIAMI RIVER ROAD) IS PROHIBITED WHEN ALL LANES ARE OPEN. IF ACCESS TO THIS AREA IS NEEDED, THE LEFT LANE SHALL BE CLOSED TO PROVIDE DECELERATION/ACCELERATION SIMILAR TO MT-103.10.

ACCESS TO/FROM THE MEDIAN WEST OF THE STRUCTURE (BETWEEN THE SR 128 AND THE GREAT MIAMI RIVER) SHALL BE MADE BY ACCELERATING/DECELERATING ALONG THE EXISTING SHOULDER(S) SIMILAR TO MT-103.10. WRONG WAY TRAVEL ON THE OPEN SHOULDER IS PROHIBITED; THERE ARE NO TRAVEL RESTRICTIONS ON THE GRASSED MEDIAN.

PROVIDE PORTABLE BARRIER ALONG ONE OR BOTH MEDIAN SHOULDERS TO PROTECT EQUIPMENT PER 614.035. THE EXISTING MEDIAN GUARDRAIL MAY BE REMOVED AND REINSTALLED TO IMPROVE SITE ACCESS. IF GUARDRAIL IS REMOVED, THE EASTBOUND LEFT SHOULDER SHALL BE CLOSED WITH PORTABLE BARRIER AS SHOWN ON SHEET 5. PAYMENT FOR PORTABLE BARRIER AND GUARDRAIL AS DESCRIBED IN THIS NOTE SHALL BE MADE AT THE UNIT PRICE BID FOR THESE ITEMS.

ACCESS BEHIND GUARDRAIL

REMOVE AND RE-ERECT GUARDRAIL AS NECESSARY FOR ACCESS TO A WORK LOCATION. REMOVE GUARDRAIL ONLY WHEN IT CAN BE REPLACED ON THE SAME DAY. OBTAIN APPROVAL FROM THE ENGINEER FOR EACH LOCATION, PRIOR TO PERFORMING THE WORK. THIS WORK INCLUDES REMOVAL OF EXISTING GUARDRAIL AND POSTS AND RE-ERECTION OF THE SAME MATERIALS. EXISTING RAIL ELEMENTS AND BARRIER REFLECTORS MAY BE RE-USED. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO PERFORM THIS WORK SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

FLOODLIGHTING

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 COMMENCING ANY WORK. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER. PAYMENT FOR ALL LABOR, EQUIPMENT BEFORE WORK PROCEEDS. AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

MEDIAN WORK AREA

TEMPORARY PLACEMENT AND REMOVAL OF STONE, ETC. IN THE MEDIAN TO ACCOMMODATE CONSTRUCTION VEHICLES AND STORAGE SHALL BE CONSIDERED INCIDENTAL TO ITEM 614 - MAINTAINING TRAFFIC.

NOTIFICATION OF TRAFFIC RESTRICTIONS

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 SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). 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 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.

Table with 3 columns: ITEM, DURATION OF CLOSURE, NOTICE DUE TO OFFICE OF COMMUNICATIONS. Includes rows for Ramp & Road Closures, Lane Closure & Restrictions, and Start of Construction & Traffic Pattern Changes.

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTICE TO OFFICE OF COMMUNICATIONS TIME TABLE.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS 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.

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.

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. 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 USE.

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.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN 6 SIGN MONTHS ASSUMING 3 PCMS SIGN(S) FOR 2 MONTH(S) PLACE A SIGN AT THE I-275 WB & I-74 WB APPROACH TO HAM-74-9.11L. PLACE A SIGN AT THE I-275 EB APPROACH TO HAM-74-8.38R.

DESIGN AGENCY



DESIGNER CAH

REVIEWER SK MM-DD-YY

PROJECT ID 114650

SHEET 03

TOTAL 22

ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS)

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENT OF C&MS 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 THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

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 FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

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.

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 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.

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. ONCE THE LEO HAS COMPLETED THE DUTIES DESCRIBED ABOVE AND STILL HAS TIME REMAINING ON HIS/HER SHIFT, THE LEO MAY BE ASKED TO PATROL THROUGH THE WORK ZONE (WITH FLASHING LIGHTS OFF) OR BE PLACED AT A LOCATION TO DETER MOTORISTS FROM SPEEDING. 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 WHICH 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.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 250 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 AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

DELINEATION OF PORTABLE AND PERMANENT BARRIER

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.

BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, 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.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS AND CARRIED TO THE GENERAL SUMMARY:

ITEM 614, BARRIER REFLECTOR, TYPE 1 (ONE-WAY) 60 EACH
ITEM 614, OBJECT MARKER, ONE-WAY 60 EACH

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING EACH OF THE ABOVE ITEMS.

PROJECT COORDINATION

THE CONTRACTOR SHALL COMPLETE ALL WORK BY 10/1/25 TO AVOID INTERFERENCE WITH PAVING PROJECT HAM-74-7.05 (PID 110539) WHICH WILL BE CONSTRUCTED IN 2026.

LANE VALUE CONTRACT TABLE			
DESCRIPTION OF CRITICAL LANE/RAMP TO BE MAINTAINED	RESTRICTED TIME PERIOD	TIME UNIT	DISINCENTIVE \$ PER TIME UNIT PER LANE
EB IR-74: ALL LANES OPEN TO TRAFFIC (3:2)	MON-FRI: 6AM-9AM & MON-FRI: 3PM - 6PM SAT-SUN: NO RESTRICTIONS	1 MINUTE PERIOD	\$235
EB IR-74: TWO LANES OPEN TO TRAFFIC (3:1)	MON-FRI: 5AM-8PM SAT-SUN: 8AM TO 8PM	1 MINUTE PERIOD	\$210
WB IR-74: ALL LANES OPEN TO TRAFFIC (3:2)	MON-FRI: 1PM-6PM SAT-SUN: NO RESTRICTIONS	1 MINUTE PERIOD	\$235
WB IR-74: TWO LANES OPEN TO TRAFFIC (3:1)	MON-FRI: 6AM-9PM SAT-SUN: 8AM TO 9PM	1 MINUTE PERIOD	\$210

NOTE:

1: A MINIMUM OF 1 LANE SHALL BE MAINTAINED AT ALL TIMES.

ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL OR BIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARDS APPROVED PRODUCTS WEB PAGE. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

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.

DESIGN AGENCY



DESIGNER

CAH

REVIEWER

SK MM-DD-YY

PROJECT ID

114650


SHEET TOTAL

04 | 22

SHEET NUM.											PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
2	3	4									01/IMS/13	EXT	TOTAL				
ROADWAY																	
LUMP											LUMP	201	11001	LS		CLEARING AND GRUBBING, AS PER PLAN	2
	500										500	202	38000	500	FT	GUARDRAIL REMOVED	
	2										2	202	42206	2	EACH	ANCHOR ASSEMBLY REMOVED	
	3										3	202	47000	3	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED	
	2										2	202	47800	2	EACH	IMPACT ATTENUATOR REMOVED	
	500										500	606	13000	500	FT	GUARDRAIL, TYPE 5	
	2										2	606	26500	2	EACH	ANCHOR ASSEMBLY, TYPE T	
	3										3	606	35000	3	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 1	
	2										2	606	60012	2	EACH	IMPACT ATTENUATOR, TYPE 1 (BIDIRECTIONAL) (CAT SYSTEM)	
EROSION CONTROL																	
											12,000	832	30000	12,000	EACH	EROSION CONTROL	
ENVIRONMENTAL / REMEDIATION																	
LUMP											LUMP	SPECIAL	69098400	LS		MISC.: WORK INVOLVING ASBESTOS CONTAINING MATERIALS	2
TRAFFIC CONTROL																	
0.15											0.15	644	00104	0.15	MILE	EDGE LINE, 6"	
0.53											0.53	646	10010	0.53	MILE	EDGE LINE, 6"	
STRUCTURE REPAIR (HAM-74-0838L)																	
																	15
STRUCTURE REPAIR (HAM-74-0838R)																	
																	15
STRUCTURE REPAIR (HAM-74-0911L)																	
																	15
MAINTENANCE OF TRAFFIC																	
		250									250	614	11110	250	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	4
	4										4	614	12380	4	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	4
	60										60	614	13310	60	EACH	BARRIER REFLECTOR, TYPE 1 (UNI-DIRECTIONAL)	
	60										60	614	13350	60	EACH	OBJECT MARKER, ONE WAY	
	6										6	614	12004	6	MM	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	3
	3,000										3,000	622	41100	3,000	FT	PORTABLE BARRIER, UNANCHORED	
INCIDENTALS																	
LUMP	LUMP										LUMP	614	11000	LS		MAINTAINING TRAFFIC	
											LUMP	623	10001	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN	2
											LUMP	624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

DESIGN AGENCY

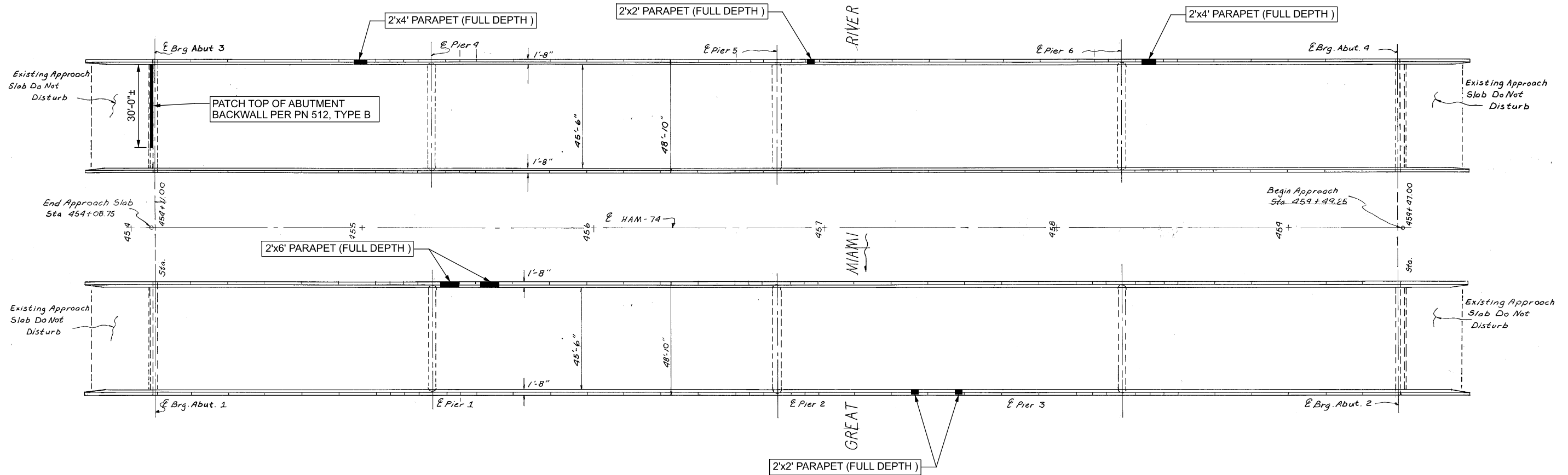


DESIGNER
CAH

REVIEWER
JTO 02-01-24

PROJECT ID
114650

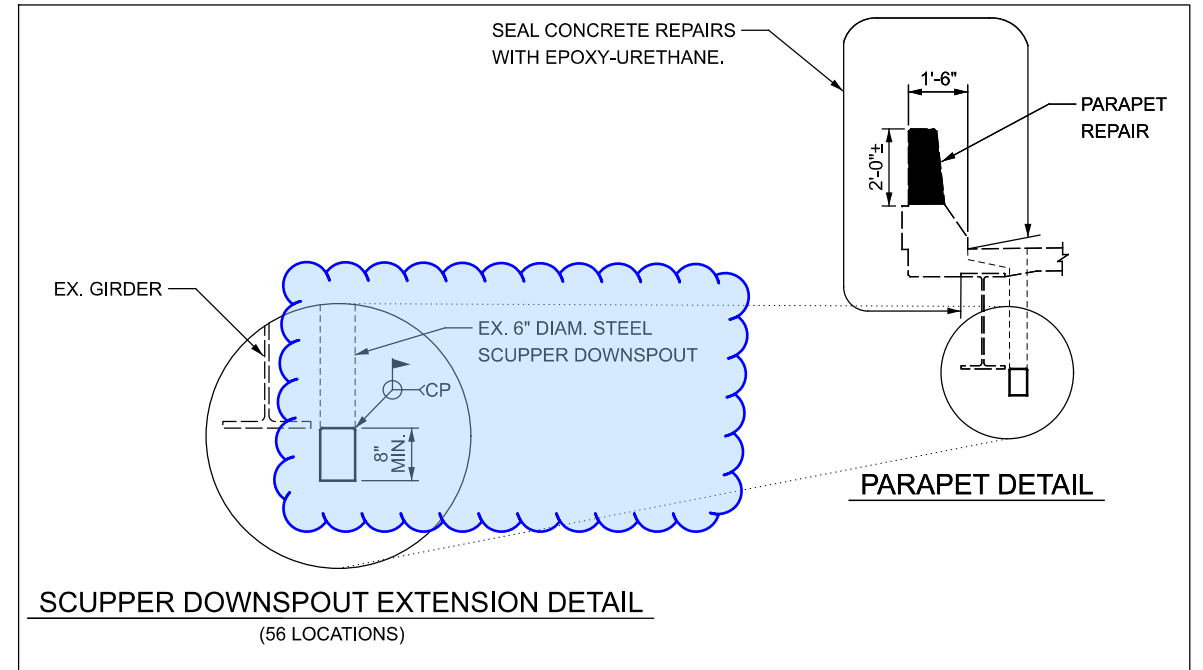
SHEET TOTAL
06 | 22



PLAN

NOTES:

1. PARAPET REPAIR DIMENSIONS ARE CALLED OUT AS DEPTH FROM TOP OF PARPET BY LENGTH ALONG PARAPET.
2. REMOVE ALL EXISTING CONCRETE SEALER ON PARAPETS. RE-SEAL CONCRETE PARAPETS WITH EPOXY-URETHANE PER CMS 512.
3. EXTEND EXISTING SCUPPER DOWNSPOUTS TO 8" MIN. BELOW BOTTOM FLANGE. MATCH EXISTING PIPE TYPE AND DIAMETER.
4. DETAILS ON THIS SHEET ARE TAKEN FROM EXISTING PLANS AND SHOULD BE USED FOR INFORMATION PURPOSES ONLY.
5. PERFORM ONLY THE WORK AS INDICATED IN THE FRAMED TEXT AND/OR DESCRIBED IN THE GENERAL NOTES.



6. REMOVALS PAID FOR UNDER ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN FOR PAYMENT.
7. CAREFULLY REMOVE CONCRETE FROM PARAPETS. SALVAGE EXISTING REBAR FOR REUSE. CUTTING EXISTING REBAR AND DOWELING IN OF NEW REBAR SHALL NOT BE ALLOWED.
8. CONCRETE FOR PARAPET REPAIRS PAID FOR UNDER ITEM 513 - CLASS QC2 CONCRETE, SUPERSTRUCTURE.

LEGEND

■ QC 2 CONCRETE REPAIR

SFN	3108252
SFN	3108287
DESIGN AGENCY	



DESIGNER	CHECKER
CAH	GTF
REVIEWER	
AMS	12-18-23
PROJECT ID	114650
SUBSET	TOTAL
4	4
SHEET	TOTAL
19	22