

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

COL-30-34.07

CITY OF EAST LIVERPOOL COLUMBIANA COUNTY

FEDERAL PROJECT NUMBER

E161557

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

REPLACEMENT OF THE EXISTING BRIDGE COL-30-3407 SUPERSTRUCTURE AND INCREASING THE VERTICAL CLEARANCE OF WEST 9TH STREET OVER US 30, CONVERTING THE ABUTMENTS TO SEMI-INTEGRAL, AND REPLACEMENT OF APPROACH PAVEMENT AND NEW GUARDRAIL.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 0.75 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.25 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: 1.00 ACRES

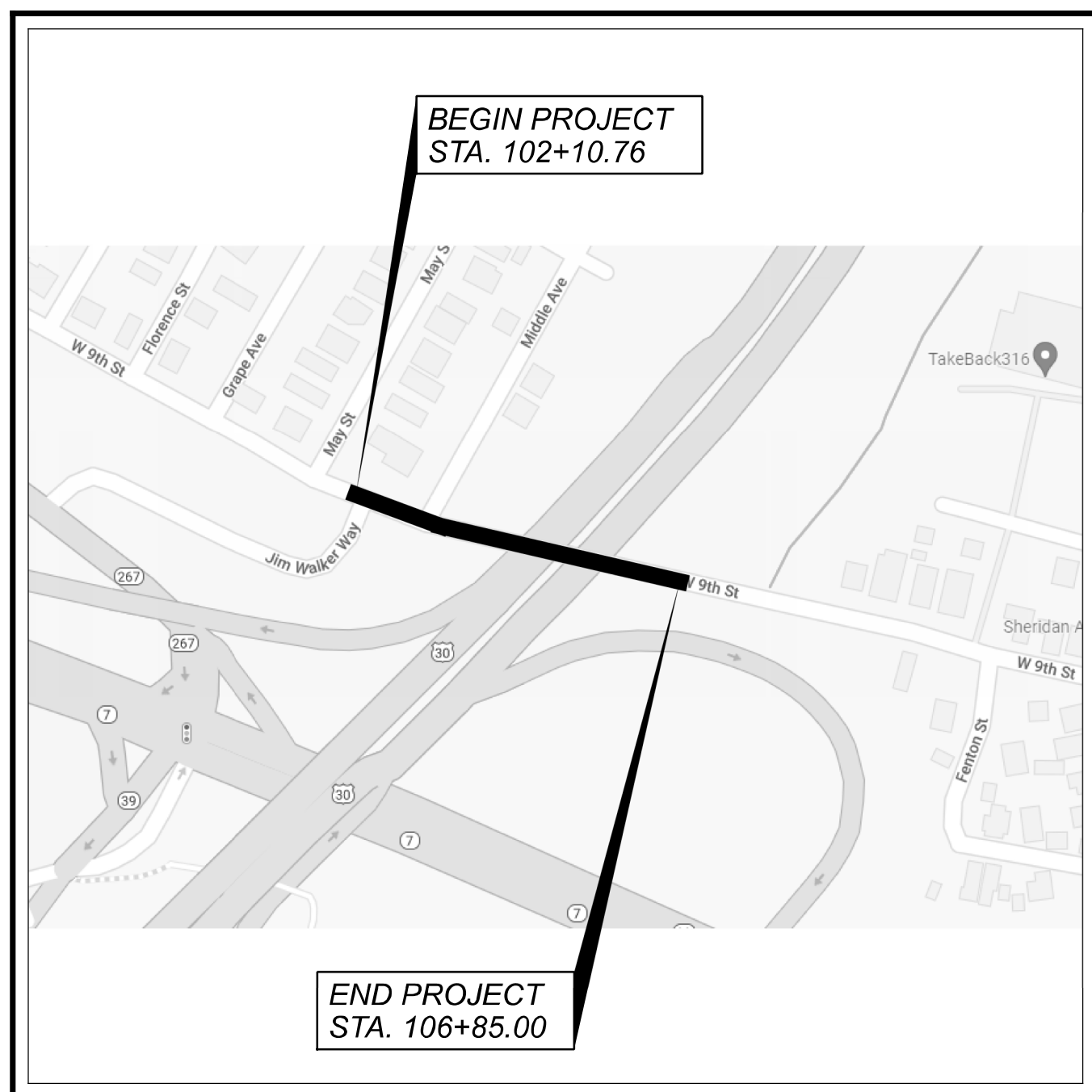
LIMITED ACCESS

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

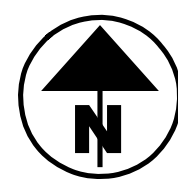
THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING OF 9TH ST. TO TRAFFIC, AS NOTED ON SHEET P.09-P.14, THAT DETOURS WILL BE PROVIDED AS SHOWN HEREIN, AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.



LOCATION MAP

LATITUDE: 40°37'30"N LONGITUDE: 80°35'05"W



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

DESIGN DESIGNATION

CURRENT ADT (2024)	1,000
DESIGN YEAR ADT (2044)	1100
DESIGN HOURLY VOLUME (2044)	121
DIRECTIONAL DISTRIBUTION	50
TRUCKS (24 HOUR B&C)	1.00%
DESIGN SPEED	50 MPH (US 30); 25 MPH (W 9TH ST)
LEGAL SPEED	50 MPH (US 30); 25 MPH (W 9TH ST)

DESIGN FUNCTIONAL CLASSIFICATION:

RURAL MAJOR COLLECTOR	
NHS PROJECT	YES (US 30) NO (W 9TH ST)

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:



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ENGINEER'S SEAL
BRIDGE
STATE OF OHIO
MATTHEW J. LAWLOR
60508
REGISTERED PROFESSIONAL ENGINEER
Digitally signed by Matt Lawlor Date: 2024.03.01 12:10:31-05'00'

ENGINEER'S SEAL
ROADWAY
STATE OF OHIO
CHAD S. RUNDLE
E-67475
REGISTERED PROFESSIONAL ENGINEER
Digitally signed by Chad Rundle Date: 2024.03.01 12:17:54-05'00'

STANDARD CONSTRUCTION DRAWINGS										SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS	
BP-2.1	1/21/22	MGS-3.1	1/19/18	TVPF-1-18	7/20/18	TC-52.20	1/15/21	HL-10.11	7/21/23	800-23	10/20/23	ASBESTOS INSPECTION REPORT 09/23/2021	
BP-2.2	1/15/21	MGS-4.2	7/19/13	VPF-1-90	7/21/23	TC-61.30	7/19/19	HL-10.12	7/21/23	813	7/21/23		
BP-3.1	1/21/22	MGS-6.1	1/19/18	TC-71.10	4/21/23	HL-10.13	1/20/23	825	4/21/23	825	4/21/23		
BP-4.1	7/19/13			MT-97.10	4/19/19	TC-74.10	7/21/23	HL-20.14	4/17/20	832	7/15/22		
BP-5.1	7/15/22	MH-3	7/21/23	MT-101.60	4/21/23			HL-30.11	7/21/23	844	4/20/18		
BP-7.1	7/21/23	CB-3	7/16/21	MT-105.10	1/17/20	RM-4.4	7/21/23	HL-30.21	4/17/20	902	7/19/19		
		RM-1.1	1/20/23	MT-110.10	7/19/13			HL-30.22	1/15/21	913	4/16/21		
DM-4.1	7/17/20							HL-30.31	7/21/23				
DM-4.2	7/16/21	AS-1-15	1/20/23	TC-15.116	7/21/23			HL-30.41	1/21/22				
DM-4.3	1/15/16	AS-2-15	7/21/23	TC-21.50	4/17/20			HL-40.10	7/21/23				
DM-4.4	1/15/16	BR-2-15	1/21/22	TC-41.20	10/18/13			HL-50.11	1/16/15				
		GSD-1-19	1/15/21	TC-41.30	4/21/23			HL-50.21	7/15/22				
F-1.1	7/19/13	HW-2.2	7/20/18	TC-42.20	10/18/13			HL-60.11	7/21/17				
		SBR-1-20	7/21/23	TC-51.11	1/15/16			HL-60.12	7/21/23				
MGS-1.1	7/16/21	SICD-1-21	1/21/22	TC-51.12	1/15/16			HL-60.31	7/21/23				
MGS-2.1	1/19/18	SICD-2-14	1/15/21	TC-52.10	10/18/13								

Thomas D. Corey
Thomas D. Corey
District 11 Deputy Director

Jack Marchbanks
Jack Marchbanks, PhD
Director, Department of Transportation

TITLE SHEET

DESIGN AGENCY



DESIGNER

SA

REVIEWER

CSR 09-20-23

PROJECT ID

101098

SHEET

P.01

TOTAL

85

COL-30-34.07

MODEL: Sheet PAPER: 34x22 (in.) DATE: 3/1/2024 TIME: 10:10:54 AM USER: emoradiya X:\Projects\2022\2222\100100 ODOT COL-30-34.07\101098\400-Engineering\Roadway\Sheets\101098_G1001.dgn

ITEM 614, MAINTAINING TRAFFIC

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 150 CONSECUTIVE CALENDAR DAYS, WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEET 9. DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$1000 PER DAY FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT. SHOULDER CLOSURES AND ROAD CLOSURES WILL BE REQUIRED TO PERFORM THIS WORK. THE CLOSURE OF W. 9TH STREET SHALL BE AS DETAILED IN THE MAINTENANCE OF TRAFFIC PLANS.

WHEN SHOULDER AND LANE CLOSURES OF US 30 IS REQUIRED, THE CONTRACTOR SHALL MAINTAIN TRAFFIC IN ACCORDANCE WITH ODOT SCD MT-95.40 AND SCD MT-95.45.

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 CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN SCD MT-101.60 AT THE LOCATIONS AS SHOWN IN THE PLAN DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC.

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND TYPE III BARRICADES OF THE TYPE AND LOCATION AS SHOWN IN THE PLAN.

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. [AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.]

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

NOTICE OF CLOSURE SIGN TIME TABLE

ITEM	DURATION OF CLOSURE	SIGN TO BE DISPLAYED TO PUBLIC
RAMP & ROAD CLOSURES	>=2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	>12 HOURS & <2 HOURS	7 CALENDAR DAYS PRIOR TO CLOSURE
	<=12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

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.

DETOUR SIGNING

THE CONTRACTOR SHALL PROVIDE, MAINTAIN AND SUBSEQUENTLY REMOVE ALL REQUIRED DETOUR SIGNING AND SUPPORTS AS SHOWN IN THE PLANS AND IN ACCORDANCE WITH THE CMS 614, MAINTAINING TRAFFIC.

THE SIGNS SHALL BE ERECTED ALONG THE OFFICIAL DETOUR ROUTE AND SHALL BE ASSEMBLED AS SHOWN. ALL DETOUR SIGNING SHALL BE INSTALLED BEFORE COMMENCING OF THE PROPOSED DETOUR.

EACH SIGN ASSEMBLY SHALL BE PLACED 100 FEET IN ADVANCE OF THE IMPENDING CHANGE OF ROUTE OR AS DIRECTED. OFFSETS OF THE SIGN ASSEMBLY SHALL BE PER SCD TC-42.20.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, DETOUR SIGNING, UNLESS SEPARATELY ITEMIZED IN THE PLANS.

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY AND INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616, WATER ----- 10 M. GAL.

WORK ZONE MARKINGS AND 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.

ITEM 614 - WORK ZONE CENTERLINE, CLASS I, 642 PAINT---- 0.50 MILE
ITEM 614 - WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT--- 0.50 MILE
ITEM 614 - WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT--- 0.50 MILE
ITEM 614 - WORK ZONE STOP LINE, CLASS I, 642 PAINT----- 72 FT

ASPHALT CONCRETE FOR MAINTAINING TRAFFIC (PEDESTRIAN)

THE FOLLOWING QUANTITY HAS BEEN PROVIDED IN THE PLAN FOR MAINTENANCE OF PEDESTRIAN TRAFFIC IN ALL PHASES.

ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC----- 20 CY

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 THE 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 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 OF TRAFFIC RESTRICTIONS TIME TABLE

ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
RAMP & ROAD CLOSURES	>=2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	>12 HOURS & <2 HOURS	14 CALENDAR DAYS PRIOR TO CLOSURE
	<=12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>=2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	<2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

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

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 ODOT INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE ODOT, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC, OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE ODOT, 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).

FOR OPERATIONS WITHOUT POSITIVE PROTECTION OCCURRING WITHIN 10 FEET OF AN OPEN TRAVELED LANE THAT MEET ALL OF THE FOLLOWING CRITERIA:

ON A MULTI-LANE DIVIDED INTERSTATE, OTHER FREEWAY OR EXPRESSWAY; AND AN AUTHORIZED SPEED LIMIT OF 45 MPH OR GREATER THAT IS IN EFFECT AT THE TIME OF THE OPERATION; AND, AADT OF 50,000 (OR AADT OF 30,000 WITH 25% OR 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. 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.

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.

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. 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.

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

DESIGNATED LOCAL DETOUR ROUTE

IN ADDITION TO THE OFFICIAL, SIGNED DETOUR ROUTE, A LOCAL ROUTE HAS BEEN DETERMINED TO BE THE SECONDARY, UNSIGNED DETOUR ROUTE OR "DESIGNATED LOCAL DETOUR ROUTE." THIS ROUTE IS SHOWN ON "DETOUR PLAN 2 OF 2". DURING THE TIME THAT TRAFFIC IS DETOURED, THE CONTRACTOR SHALL MAINTAIN THIS ROUTE IN A CONDITION WHICH IS REASONABLY SMOOTH AND FREE FROM HOLES, RUTS, RIDGES, BUMPS, DUST AND STANDING WATER. ONCE THE DETOUR IS REMOVED AND TRAFFIC RETURNED TO ITS NORMAL PATTERN, THE DESIGNATED LOCAL DETOUR ROUTE SHALL BE RESTORED TO A CONDITION THAT IS EQUIVALENT TO THAT WHICH EXISTED PRIOR TO ITS USE FOR THIS PURPOSE. ALL SUCH WORK SHALL BE PERFORMED WHEN AND AS DETERMINED BY THE ENGINEER.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY AND ARE PROVIDED FOR USE AS DETERMINED BY THE ENGINEER TO MAINTAIN AND SUBSEQUENTLY RESTORE THE DESIGNATED LOCAL DETOUR ROUTE.

ITEM 304, AGGREGATE BASE ----- 150 CY
ITEM 301, ASPHALT CONCRETE BASE, PG64-22 (449) ----- 200 CY
ITEM 441, ASPHALT CONC. SURF. COURSE, TYPE 1, (449) PG64-22 ----- 250 CY
ITEM 407, TACK COAT ----- 300 GAL
ITEM 614, ASPHALT CONCRETE FOR MAINTAINING TRAFFIC ----- 100 CY
ITEM 617, COMPACTED AGGREGATE, TYPE A ----- 50 CY

SHEET NUM.											PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.		
P.06	P.08	P.17	P.18	P.22	P.23	P.35	P.36				01/NHS/10	EXT	TOTAL						
LS											OFFICE CALCS	LS	201	11000	LS		ROADWAY		
		720										720	202	23000	720	SY	CLEARING AND GRUBBING		
		605										605	202	30000	605	SF	PAVEMENT REMOVED		
						91						91	202	30700	91	FT	WALK REMOVED		
		81										81	202	32000	81	FT	CONCRETE BARRIER REMOVED		
		347										347	202	32500	347	FT	CURB REMOVED		
																	CURB AND GUTTER REMOVED		
		123	39									162	202	35100	162	FT	PIPE REMOVED, 24" AND UNDER		
		396				88						484	202	38000	484	FT	GUARDRAIL REMOVED		
		1										1	202	58000	1	EACH	MANHOLE REMOVED		
		3										3	202	58100	3	EACH	CATCH BASIN REMOVED		
												222	202	75000	222	FT	FENCE REMOVED		
												1,415	203	10000	1,505	CY	EXCAVATION		
												967	203	10001	967	CY	EXCAVATION, AS PER PLAN	P.07	
												148	203	20000	148	CY	EMBANKMENT		
											718	1,051	204	10000	1,051	SY	SUBGRADE COMPACTION		
												380	204	50000	380	SY	GEOTEXTILE FABRIC		
		260										440	606	15050	440	FT	GUARDRAIL, TYPE MGS		
		2										2	606	25000	2	EACH	ANCHOR ASSEMBLY, TYPE A		
												1	606	26100	1	EACH	ANCHOR ASSEMBLY, TYPE E (MASH 2016)		
		3										4	606	35002	4	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1		
												215	607	23000	215	FT	FENCE, TYPE CLT		
												1	607	61200	1	EACH	GATE, TYPE CLT		
												657	608	10000	657	SF	4" CONCRETE WALK		
												143	608	52000	143	SF	CURB RAMP (TYPE B1)		
												2	622	10201	2	EACH	BARRIER TRANSITION, AS PER PLAN	P.36	
2												2	623	38500	2	EACH	MONUMENT ASSEMBLY, TYPE C		
																	EROSION CONTROL		
												14	601	34400	14	CY	ROCK CHANNEL PROTECTION, WITH GROUT, TYPE A		
2												2	659	00100	2	EACH	SOIL ANALYSIS TEST		
42												42	659	00300	42	CY	TOPSOIL		
376												1,242	659	10000	1,242	SY	SEEDING AND MULCHING		
19												19	659	14000	19	SY	REPAIR SEEDING AND MULCHING		
0.05												0.05	659	20000	0.05	TON	COMMERCIAL FERTILIZER		
0.08												0.08	659	31000	0.08	ACRE	LIME		
1												1	659	35000	1	MGAL	WATER		
												LS	832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN		
												LS	832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS		
												LS	832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE		
												25,000	832	30000	25,000	EACH	EROSION CONTROL		
																	DRAINAGE		
												0.4	602	20000	0.4	CY	CONCRETE MASONRY		
												347	605	14000	347	FT	6" BASE PIPE UNDERDRAINS		
												148	611	05900	148	FT	15" CONDUIT, TYPE B		
												42	611	07400	42	FT	18" CONDUIT, TYPE B		
												10	611	07600	10	FT	18" CONDUIT, TYPE C		
												3	611	98150	3	EACH	CATCH BASIN, NO. 3		
												2	611	99574	2	EACH	MANHOLE, NO. 3		
																	PAVEMENT		
												87	287	301	56000	287	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
												144	365	304	20000	365	CY	AGGREGATE BASE	
												300	407	10000	300	GAL	TACK COAT		

GENERAL SUMMARY

DESIGN AGENCY	
DESIGNER	CAM
REVIEWER	SA 07-09-23
PROJECT ID	101098
SHEET	TOTAL
P.15	85

COL-30-34.07

MODEL: GG002 PAPER SIZE: 34x22 (in.) DATE: 3/19/2024 TIME: 11:04:19 AM USER: cmoradiya
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SHEET NUM.											PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.	
P.08	P.32	P.35	P.36	P.37	P.38	P.39					OFFICE CALCS	01/NHS/10	EXT	TOTAL				
											568	568	407	20000	568	GAL	PAVEMENT NON-TRACKING TACK COAT	
250												250	441	70000	250	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	
											18	18	441	70100	18	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG70-22M, 1.25"	
											26	26	441	70300	26	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449) , 1.75"	
											192	192	452	12010	192	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
											347	347	609	12000	347	FT	COMBINATION CURB AND GUTTER, TYPE 2	
											81	81	609	26000	81	FT	CURB, TYPE 6	
50												50	617	10100	50	CY	COMPACTED AGGREGATE, TYPE A	
																	STRUCTURE OVER 20 FOOT SPAN STRUCTURE No. 1502344 GENERAL SUMMARY	P.46
																	LIGHTING	
				4								4	625	00450	4	EACH	CONNECTION, FUSED PULL APART	
				6								6	625	00480	6	EACH	CONNECTION, UNFUSED PERMANENT	
				2								2	625	10490	2	EACH	LIGHT POLE, CONVENTIONAL, A18B32	
				2								2	625	10614	2	EACH	LIGHT POLE ANCHOR BOLTS ON STRUCTURE	
				768								768	625	23200	768	FT	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	
				200								200	625	23400	200	FT	NO. 10 AWG POLE AND BRACKET CABLE	
				20								20	625	24320	20	FT	1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES	
				225								225	625	25400	225	FT	CONDUIT, 2", 725.04	
				2								2	625	26253	2	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN	P.39
				11								11	625	29002	11	FT	TRENCH, 24" DEEP	
				2								2	625	29900	2	EACH	JUNCTION BOX	
				2								2	625	30706	2	EACH	PULL BOX, 725.08, 24"	
				1								1	625	31510	1	EACH	PULL BOX REMOVED	
				1								1	625	32000	1	EACH	GROUND ROD	
				1								1	625	34001	1	EACH	POWER SERVICE, AS PER PLAN	P.38
				11								11	625	36010	11	FT	UNDERGROUND WARNING/MARKING TAPE	
					LS							LS	SPECIAL	62540000	LS		MAINTAIN EXISTING LIGHTING	P.38
					1							1	SPECIAL	62540010	1	EACH	REPLACEMENT OF EXISTING LIGHTING UNIT	P.38
				2								2	625	75506	2	EACH	LUMINAIRE REMOVED	
				1								1	625	75510	1	EACH	POWER SERVICE REMOVED	
				2								2	625	75520	2	EACH	LUMINAIRE SUPPORT REMOVED	
				1								1	625	75801	1	EACH	DISCONNECT CIRCUIT, AS PER PLAN	P.38
										1		1	625	76000	1	EACH	ARC FLASH CALCULATIONS AND LABEL	
												60	632	69910	60	FT	SERVICE CABLE, 3 CONDUCTOR, WITH GROUND, NO. 4 AWG	
																	TRAFFIC CONTROL	
												3	626	00110	3	EACH	BARRIER REFLECTOR, TYPE 2, (ONE WAY)	
												38	630	02100	38	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
												2	630	08600	2	EACH	SIGN POST REFLECTOR	
												1	630	72410	1	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN 1	
												14	630	80100	14	SF	SIGN, FLAT SHEET	
												328	630	80224	328	SF	SIGN, OVERHEAD EXTRUSHEET	
												1	630	84010	1	EACH	CONCRETE BARRIER MEDIAN OVERHEAD SIGN SUPPORT FOUNDATION, TYPE TC-21.50	
												2	630	84900	2	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
												2	630	86002	2	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
												3	630	86310	3	EACH	REMOVAL OF STRUCTURE MOUNTED SIGN AND DISPOSAL	
												0.1	646	10200	0.1	MILE	CENTER LINE	
												25	646	10400	25	FT	STOP LINE	
												22	646	10510	22	FT	CROSSWALK LINE, 12"	
																	MAINTENANCE OF TRAFFIC	
												250	614	11110	250	hour	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
												3	614	12380	3	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
												LS	614	12420	LS		DETOUR SIGNING	
												120	614	13000	120	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	

GENERAL SUMMARY

DESIGN AGENCY
DLZ

DESIGNER
CAM

REVIEWER
CSR 03-13-24

PROJECT ID
101098

SHEET TOTAL
P.16 85


COL-30-34.07

MODEL: GG003 PAPER SIZE: 34x22 (in.) DATE: 3/13/2024 TIME: 11:03:15 AM USER: cmoradiya
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SHEET NUM.										PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
P.08	P.12	P.13	P.14	P.36							EXT	TOTAL				
MAINTENANCE OF TRAFFIC																
0.5											614	20110	0.5	MILE	WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT	
0.5											614	21100	0.5	MILE	WORK ZONE CENTER LINE, CLASS I, 642 PAINT	
0.5											614	22110	0.5	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT	
72											614	26200	72	FT	WORK ZONE STOP LINE, CLASS I, 642 PAINT	
10											616	10000	10	MGAL	WATER	
	180	100	180	844							622	41100	1,304	FT	PORTABLE BARRIER, UNANCHORED	
INCIDENTALS																
LS											614	11000	LS		MAINTAINING TRAFFIC	
											619	16010	18	MNTH	FIELD OFFICE, TYPE B	
											623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
											624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

DESIGN AGENCY

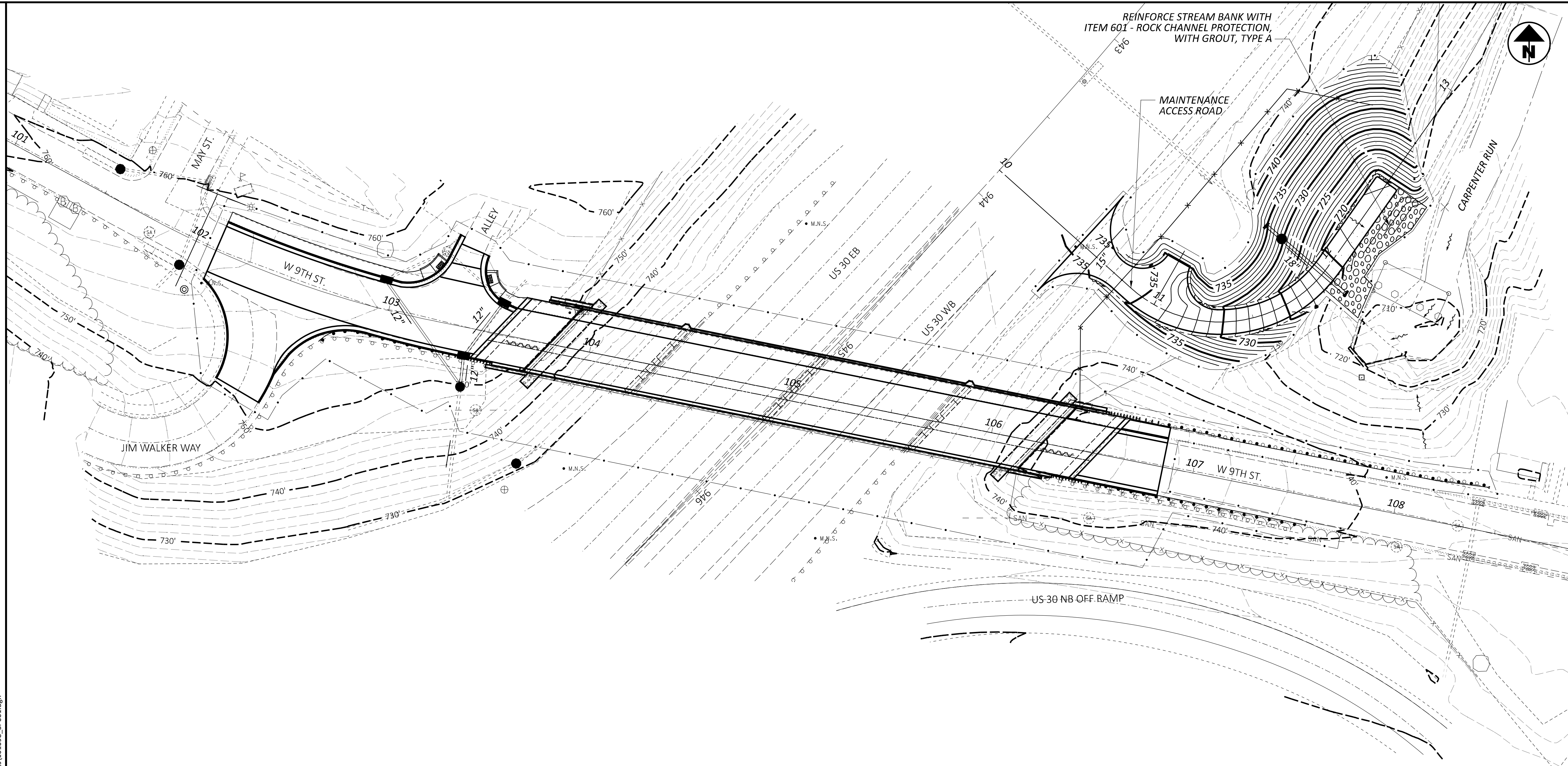


DESIGNER
CAM

REVIEWER
CSR 03-13-24

PROJECT ID
101098

SHEET TOTAL
P.16A 85



PROJECT DESCRIPTION

REPLACEMENT OF EXISTING BRIDGE COL-30-3407 SUPERSTRUCTURE AND INCREASING THE VERTICAL CLEARANCE OF WEST 9TH STREET OVER US 30, CONVERTING THE ABUTMENTS TO SEMI-INTERGAL, AND REPLACEMENT OF APPROACH PAVEMENT AND NEW GUARDRAIL. PROJECT ALSO INCLUDES THE CONSTRUCTION OF MAINTENANCE ACCESS ROAD.

USGS MAP: EAST LIVERPOOL SOUTH QUADRANGLE
 EAST LIVERPOOL, OHIO

LATITUDE: 40° 37' 30" N *
 LONGITUDE: 80° 35' 05" W *

* LATITUDE AND LONGITUDE TO APPROX. CENTER OF PROJECT

LEGEND

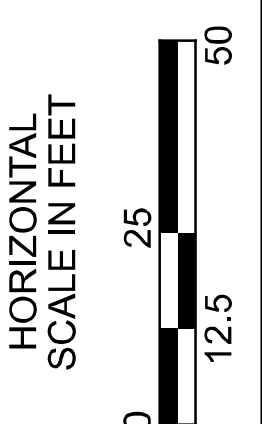
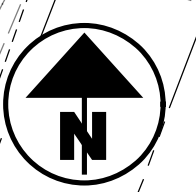
- CATCH BASIN, CB-3
- HEADWALL, HW-2.2
- MANHOLE

PROJECT DATA

Total Area (Right-Of-Way) ——— 1.28 Ac	Runoff Coefficient for Pre-Construction Site ——— 0.70
Project Earth Disturbed Area — 0.75 Ac	Runoff Coefficient for Post-Construction Site ——— 0.78
Estimated Contractor Earth Disturbed Area — 0.25 Ac	Post Construction BMP ——— Not Required
Notice of Intent Earth Disturbed Area ——— 1.0 Ac	Immediate Receiving Water — Carpenter Run
Impervious (Paved) Area for Pre-Construction Site — 0.44 Ac	Subsequent Receiving Water — Ohio River
Impervious (Paved) Area for Post Construction Site — 0.53 Ac	

REINFORCE STREAM BANK WITH ITEM 601 - ROCK CHANNEL PROTECTION, WITH GROUT, TYPE A

MAINTENANCE ACCESS ROAD



PROJECT SITE PLAN

DESIGN AGENCY



DESIGNER
CAM

REVIEWER
CSR 02-23-24

PROJECT ID
101098

SHEET TOTAL
P.18A 85