# **STATE OF OHIO DEPARTMENT OF TRANSPORTATION**



LOCATION MAP LATITUDE: 40°50'45" LONGITUDE: 83°52'30"



## **PROJECT LOCATIONS:**

1	VAN-118-5.98	OVER TOWN CREEK
2	VAN-30-20.41	CR 418 OVER US 30
3	PUT-189-7.39	OVER LEATHERWOOD DITCH
4	PUT-115-14.31	OVER BLANCHARD RIVER
5	ALL-117-12.41	OVER OTTAWA RIVER
6	HAN-75-3.78	SR 235 OVER IR 75
7	HAN-15-17.91 L	OVER CSX/CONRAIL RR
8	WYA-67-1.09	OVER LITTLE TYMOCHTEE CREEK
9	WYA-37-9.23	OVER TYMOCHTEE CREEK
10	WYA-67-4.18	OVER BRANCH OF TYMOCHTEE CREEK
11	WYA-199-8.21	OVER LITTLE TYMOCHTEE CREEK
12	HAN-75-1.22 L	OVER CR 33 & ABANDONED RR
13	ALL- <b>7</b> 5-3.29	MCCLAIN RD OVER IR75
14	PUT-634-10.21	OVER AUGLAIZE RIVER
15	DEF-24-6.97	SR 66 OVER US 24

### DESIGN EXCEPTIONS

NONE REQUIRED

### ADA DESIGN WAIVERS

NONE REQUIRED



PLAN PREPARED BY: OHIO DEPT. OF TRANSPORTATION, DISTRICT 1 1885 N. MCCULLOUGH ST. LIMA, OHIO 45801

# D01-BM-FY24

ALLEN, DEFIANCE, HANCOCK, PUTNAM, VAN WERT AND WYANDOT COUNTIES

### **INDEX OF SHEETS:**

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NONE

PROJECT EARTH DISTURBED AREA: ESTIMATED CONTRACTOR EARTH DISTURBED AREA: NOTICE OF INTENT EARTH DISTURBED AREA: **\*ROUTINE MAINTENANCE PROJECT** 

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 EXCEPT AS NOTED ON SHEETS 3-9 AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.





	SPECIAL PROVISIONS	EMENTAL CATIONS		DRAWINGS	UCTION	CONSTR	ANDARD	ST		
1	WATERWAY PERMIT	7/21/23	800		10/18/13	TC-42.10	7/21/23	TST-2-21	7/16/21	MGS-1.1
	12/12/23	4/20/12	821		10/18/13	TC-42.20			1/19/18	MGS-2.1
		7/21/23	832		10/18/13	TC-52.10	1/15/16	DM-4.3	1/19/18	MGS-3.1
ENGINE		10/18/19	843		1/15/21	TC-52.20	1/15/16	DM-4.4	7/16/21	MGS-3.3
2.10.112		4/17/15	846		7/19/19	TC-61.30			1/18/13	MGS-4.3
		1/15/21	848				7/19/19	MT-095.30	7/15/16	MGS-5.3
		4/20/18	858		7/21/23	HL-30.11	7/21/23	MT-096.11		
IN SALE		4/20/12	921		4/17/20	HL-30.21	7/21/23	MT-096.20	4/17/20	RM-4.2
15					1/15/21	HL-30.22	1/18/19	MT-096.26	$\gamma\gamma$	(
					7/15/22	HL-50.21	1/20/17	MT-097.11	7/21/17	CPP-1-08
= ★ SCHE							4/21/23	MT-101.60	λλ	
= 70					4/21/23	ITS-14.10	4/21/23	MT-101.70	7/15/22	DS-1-92
							7/21/23	MT-101.75		
							1/17/20	MT-105.10	7/21/23	EXJ-4-87
Ein Studelliff										
an strategy							10/18/13	TC-41.20		



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### FEDERAL PROJECT NUMBER

NON-FEDERAL

### RAILROAD INVOLVEMENT

### **PROJECT DESCRIPTION**

PERFORM MISCELLANEOUS BRIDGE MAINTENANCE ACTIVITIES ON VARIOUS BRIDGES IN DISTRICT 1.

## EARTH DISTURBED AREAS

0.1 ACRES 0.1 ACRES N/A (NOI NOT REQUIRED)\*

## LIMITED ACCESS

( histoples a Higher

Christopher A. Hughes, P.E. District 1 Deputy Director

løck Marchbanks, PhD Director, Department of Transportation









### ROUNDING

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

### UTILITIES

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

### 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.

### CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

### AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PUBLIC USE AIRPORT OR HELIPORT. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED A HEIGHT OF 25 FT. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, FURTHER COORDINATION WITH THE FEDERAL AVIATION ADMINISTRATION (FAA), AND THE ODOT OFFICE OF AVIATION, WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO FILE A NEW FAA FORM 7460-1, ADVISING THE FAA THAT AERONAUTICAL STUDY NUMBER \_\_\_\_\_ IS BEING RESUBMITTED AND THAT AN ALTERATION TO THE ORIGINAL SUBMISSION IS REQUESTED.

NOTIFY THE ODOT OFFICE OF AVIATION WHEN RESUBMITTING FAA FORM 7460-1. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL A COPY OF THE FAA APPROVAL AND THE ODOT OFFICE OF AVIATION PERMIT HAS BEEN FURNISHED TO THE PROJECT ENGINEER.

FAA APPROVAL MAY TAKE UP TO 45 DAYS. ALL SUBMISSIONS SHALL BE DIRECTED TO THESE OFFICES:

FEDERAL AVIATION ADMINISTRATION SOUTHWEST REGIONAL OFFICE **OBSTRUCTION EVALUATION GROUP** 10101 HILLWOOD PARKWAY FORT WORTH, TX 76177 FAX: (817) 222-5920 HTTP://CEAAA.FAA.GOV

OHIO DEPARTMENT OF TRANSPORTATION OFFICE OF AVIATION 2829 WEST DUBLIN-GRANVILLE ROAD COLUMBUS. OHIO 43235

### PERSONAL PROTECTION EQUIPMENT (PPE)

THE CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF SECTIONS XXIV AND XXXIV OF THE OHIO DEPARTMENT OF TRANSPORTATION SAFETY & HEALTH STANDARD OPERATING PROCEDURE 220-006(SP) EFFECTIVE: NOVEMBER 1, 2018 (EXCEPT AS AMENDED BELOW) AND ALL SUBSEQUENT UPDATES POSTED AT THE FOLLOWING WEBSITE:

HTTP://WWW.DOT.STATE.OH.US/POLICY/POLICIESANDSOPS/ POLICIES/220-006(SP).PDF

AMENDMENTS TO THE REQUIREMENTS OF THIS DOCUMENT ARE: XXIV.

HEAD PROTECTION (HARD HATS):

ALL PERSONS WITHIN THE RIGHT-OF-WAY OF ANY HIGHWAY OR ANY OTHER TYPE OF ROADWAY OR CONSTRUCTION SITE WHO ARE EXPOSED TO EITHER TRAFFIC (VEHICLES USING THE HIGHWAY FOR PURPOSES OF TRAVEL) OR CONSTRUCTION EQUIPMENT WITHIN THE WORK AREA, REGARDLESS OF JOB TYPE, SHALL WEAR APPROPRIATE HEAD PROTECTION. ALL HARD HATS MUST MEET OR EXCEED ANSI Z89.1-2009 TYPE 1, CLASS E-G REQUIREMENTS. XXXIV.

### SAFETY APPAREL AND VEST (HIGH VISIBILITY):

ALL PERSONS WITHIN THE RIGHT-OF-WAY OF ANY HIGHWAY OR ANY OTHER TYPE OF ROADWAY OR CONSTRUCTION SITE WHO ARE EXPOSED TO EITHER TRAFFIC (VEHICLES USING THE HIGHWAY FOR PURPOSES OF TRAVEL) OR CONSTRUCTION EQUIPMENT WITHIN THE WORK AREA. REGARDLESS OF JOB TYPE. SHALL WEAR A HIGH VISIBILITY SAFETY VEST THAT MEETS THE PERFORMANCE CLASS II OR CLASS III REQUIREMENTS OF THE ANSI/ISEA 107-2015 PUBLICATION ENTITLED "AMERICAN NATIONAL STANDARD FOR HIGH-VISIBILITY SAFETY APPAREL AND ACCESSORIES. "WORKERS MAY WEAR AN ANSI CLASS II OR ANSI CLASS III AP-PROVED RAIN SUIT, JACKET OR OTHER APPAREL WITHOUT A SAFETY VEST OVER IT.

### ITEM SPECIAL - PIPE CLEANOUT, OVER 48"

THIS WORK CONSISTS OF REMOVING SEDIMENT AND DEBRIS FROM THE EXISTING DRAINAGE CONDUITS SPECIFIED IN THE PLANS. DISPOSE OF ALL MATERIAL PER 105.16 AND 105.17. CLEAN OUT TO THE APPROVAL OF THE ENGINEER.

CLEANOUT OF THE PIPE IS PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL, PIPE CLEANOUT. THIS PRICE INCLUDES THE COST FOR MATERIAL, EQUIPMENT, LABOR, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CLEANOUT.

ESTIMATED QUANTITIES ARE SHOWN ON THE TABLE ON THIS SHEET AND ARE INCLUDED IN THE GENERAL SUMMARY FOR THE ABOVE NOTED WORK.

### CONTACT INFORMATION

THE CONTRACTOR SHALL NOT BEGIN WORK ON THE FIELD PAVING IN A COUNTY UNTIL CONTACTING THE COUNTY MANAGER AND PROJECT ENGINEER. BELOW IS A CONTACT LIST FOR COUNTY MANAGERS:

<u>ALLEN COUNTY</u>				
CONTACT	TITLE	OFFICE NUMBER	CELL NUMBER	
BRIAN RADER	DEPARTMENT MANAGER	(419) 999-6717	-	
JASON DICKMAN	TRANSPORT MGR1	(419) 999-6715	-	
ANDREW WITA	TRANSPORT MGR2	(419) 999-6712	-	

CONTACT	TITLE	OFFICE NUMBER	CELL NUMBER
IASON HOSCHAK	DEPARTMENT MANAGER	(419) 999-6711	(419) 438-4615
BRITTNI RIVERS	TRANSPORT MGR2	(419) 999-6722	(419) 250-3403
JEFFREY HOLTSBERRY	TRANSPORT MGR2	(419) 999-6728	(419) 549-7781
	HANCOCK	COUNTY	
CONTACT	TITLE	OFFICE NUMBER	CELL NUMBER
DEIDRA MILLER	DEPARTMENT MANAGER	(419) 999-6731	-
IAMES HEACOCK	TRANSPORT	(419) 999-6738	
TODD NOIROT	TRANSPORT MGR1	(419) 999-6732	(419) 549-6019
	PUTNAM	COUNTY	
CONTACT	TITLE	OFFICE NUMBER	CELL NUMBER
PAUL LEHMAN	DEPARTMENT MANAGER	(419) 999-6761	(419) 231-2811
LARRY SCHROEDER	TRANSPORT MGR2	(419) 999-6762	(419) 549-2579
KENNETH WILLIAMSON	TRANSPORT MGR2	(419) 999-6768	(419) 231-2888
	VAN WERT	<u>COUNTY</u>	
CONTACT	TITLE	OFFICE NUMBER	CELL NUMBER
KYLE FIELDS	DEPARTMENT MANAGER	(419) 999-6771	-

DEFIANCE COUNTY

KYLE FIELDS	MANAGER	(419) 999-6771	-
BRYAN HOERSTEN	TRANSPORT MGR2	(419) 999-6778	(419) 549-2635
PATRICK MCCONN	TRANSPORT MGR2	(419) 999-6772	(419) 605-8508
	WYANDO1	<u>COUNTY</u>	
CONTACT	TITLE	OFFICE NUMBER	CELL NUMBER
MATTHEW CLAY	DEPARTMENT MANAGER	(419) 999-6781	-
MARK YOST	TRANSPORT MGR1	(419) 999-6788	(419) 549-6072
GEENA SNOW	TRANSPORT MGR2	(419) 999-6782	(419) 294-7651

### ITEM 611 - FIELD PAVING EXISTING PIPE

THE EXISITING PIPES DESIGNATED TO BE FIELD PAVED SHALL BE COMPLETED ACCORDING TO CMS 611.11 AND SHALL BE PAVED TO THE HEIGHT MEASURED FROM THE TOP OF INVERT OF THE PIPE TO THAT LISTED IN THE LOCATION SPECIFIC TABLE LISTED BELOW. IF DURING LAYOUT IT IS NOTED THAT THE SPECIFIED HEIGHT STOPS AT THE BOTTOM OF A ROW OF BOLTS. EXTEND THE PAVING TO COVER THE EXISTING BOLTS BY 3". ANY ADDITIONAL MATERIAL REQUIRED TO EXTEND THE FIELD PAVING SHALL BE INCIDENTAL TO THE WORK. CARE SHALL BE TAKEN TO ANGLE THE TOP OF THE CONCRETE ENSURE NO WATER OR DEBRIS WILL COLLECT AT THIS LOCATION. EXISTING FENCE MAY NEED TO BE TEMPORARILY RELOCATED TO GAIN ACCESS TO THE PIPES. REMOVAL AND REERECTION OF THE FENCE. AS NEEDED, SHALL BE INCLUDED IN THE UNIT COST FOR ITEM 611 - FIELD PAVING EXISTING PIPE AND SHALL BE USED ONLY AS REQUIRED.

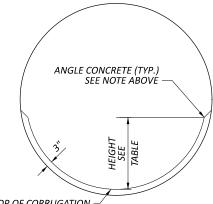
### EXISTING PLANS

EXISTING PLANS MAY BE INSPECTED IN THE ODOT DISTRICT 1 OFFICE IN LIMA, OH. EXISTING PLANS MAY ALSO BE INSPECTED AT THE OFFICE OF CONTRACTS FTP SITE FOR THE PROJECT.

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THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.



TOP OF CORRUGATION

STRUCTURE NO. 8803218				
PROJECT LOCATIONS	SIZE AND TYPE	HEIGHT	LENGTH	
WYA-199-08.21 (REAR BARREL)	96" CMP	36"	80	
TEM SPECIAL - PIPE CLEANOUT, OVER 48"				
TEM 611 - FIELD PAVING				

NOTE: ESTIMATED QUANTITY CARRIED TO GENERAL SUMMARY

### ITEM 606 - MGS BRIDGE TERMINAL ASSEMBLY, TYPE TST-2, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ITEM 606 AND STANDARD CONSTRUCTION DRAWING MGS-3.3, THIS ITEM REQUIRES THE USE OF STEEL POSTS. ALL COSTS ASSOCIATED WITH PROVIDING AND INSTALLING STEEL POSTS SHALL BE INCLUDED IN THE UNIT BID FOR ITEM 606, MGS BRIDGE TERMINAL ASSEMBLY, TYPE TST-2, AS PER PLAN

### ITEM 606 - GUARDRAIL, TYPE MGS, WITH LONG POSTS, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ITEM 606, THIS ITEM REQUIRES STEEL POSTS AND COMPOSITE OR POLYMER ALTERNATIVE BLOCKOUTS. THE BLOCKOUTS SHALL BE FROM THE APPROVED PRODUCTS LIST THAT IS MAINTAINED BY THE OFFICE OF ROADWAY ENGINEERING AND INSTALLED PER CMS 606 AND ALL PERTINENT STANDARD DRAWINGS. ALL COSTS ASSOCIATED WITH PROVIDING AND INSTALLING STEEL POSTS AND APPROVED ALTERNATIVE MGS BLOCKOUTS SHALL BE INCLUDED IN THE UNIT BIDS FOR ITEM 606, GUARDRAIL, TYPE MGS, WITH LONG POSTS, AS PER PLAN.

### ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.



DESIGNER	
MJ	К
REVIEV	NER
EJS MN	/I-DD-Y
PROJECT ID	
1077	768
SHEET	TOTAL
P.2	18

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

### ENVIRONMENTAL COMMITMENTS

ODOT WILL ACQUIRE ALL NECESSARY WATERWAY PERMITS PRIOR TO THE START OF CONSTRUCTION. CONDITIONS OF THESE PERMITS WILL BE PROVIDED IN THE CONTRACT AS SPECIAL PROVISIONS. ODOT WILL PROVIDE THE WATERWAY PERMITS TO THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL THE SPECIAL PROVISIONS OF THE WATERWAY PERMITS THROUGHOUT THE DURATION OF THE CONTRACT.

### EROSION CONTROL

THE QUANTITY BELOW HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR EROSION CONTROL.

ITEM 832 EROSION CONTROL 1200 EACH

## • STRUCTURE GROUNDING SYSTEM (PUT-189-7.39)

DUE TO THE STEEL RAILING, THIS STRUCTURE REQUIRES A GROUNDING SYSTEM CONFORMING TO SCD NUMBER HL-50.21. USE ALTERNATE METHOD AT ABUTMENTS, DETAIL B. ALL COSTS NECESSARY TO CONSTRUCT THIS SYSTEM ARE PAID PER EACH WITH ITEM 625 -STRUCTURE GROUNDING SYSTEM.

VG
EACH
IG)

### ITEM 253 - PAVEMENT REPAIR, AS PER PLAN

IN ADDITION TO CMS 253, THE THIS ITEM IS FOR PAVEMENT REPAIRS ADJACENT TO APPROACH SLABS (PUT-189-7.39) AND OTHER AREAS AS PER THE DIRECTION OF THE PROJECT ENGINEER. THE BUILD UP OF THE PAVEMENT REPAIR COVERED BY THIS ITEM SHALL BE PER THE DETAILS SHOWN ON PLAN SHEET 17.

THE QUANTITY BELOW HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR ITEM 253 - PAVEMENT REPAIR, AS PER PLAN.

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ITEM 253 - PAVEMENT REPAIR, AS PER PLAN

GENERAL NOTES	
DESIGN AGENCY DESIGNER MJK REVIEWER XXX MM-DD-YY PROJECT ID 107768 SHEET TOTAL P.2A 18	

### ITEM 614 - WORK ZONE PAVEMENT MARKING

WORK ZONE PAVEMENT MARKING SHALL BE COMPLETE AND IN PLACE ON ALL NEW PAVEMENT PRIOR TO EXPOSING IT TO TRAFFIC. THE FOLLOWING ESTIMATED QUANTITY FOR THIS ITEM HAS BEEN PROVIDED FOR USE AS DIRECTED BY THE ENGINEER.

ITEM 614 - WORK ZONE CENTER LINE, CLASS II = 0.81 MILE

### ITEM 614, MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS)

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

NEW YEAR'S (OBSERVED)	GENERAL/REGULAR ELECTION DAY (NOV)
TOTAL SOLAR ECLIPSE (4/8/24)	THANKSGIVING
MEMORIAL DAY	CHRISTMAS (OBSERVED)
FOURTH OF JULY (OBSERVED)	

LABOR DAY

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:

DAY OF HOLIDAY <u>OR SPECAL EVENT</u>	TIME ALL LANES MUST <u>BE OPEN TO TRAFFIC</u>
SUNDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00 AM TUESDAY
MONDAY	12:00N MONDAY THROUGH 6:00AM
(TOTAL SOLAR ECLIPSE)	WEDNESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
TUESDAY	5:00 AM TUESDAY THROUGH 12:00 AM
(GEN./REG. ELECTION)	WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY
THURSDAY	6:00 AM WEDNESDAY THROUGH
(THANKSGIVING ONLY)	6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00 AM

MONDAY

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE PER THE LANE VALUE CONTRACT (PN1 127).

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.

### DUST CONTROL

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

ITEM 616, WATER = 12 MGAL

# TITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS

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.

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

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. 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.

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WINDOW CONTRACT TABLE (PN 129)											
			WORK WINDOW								
DESCRIPTION OF CRITICAL WORK	CALENDAR DAYS TO COMPLETE	DISINCENTIVE \$ PER DAY	START	END							
CLOSURE OF ROADWAY FOR WORK ON PUT-115-14.31	30	\$5,000	COMPLETED CONTRACT	COMPLETION DATE							
CLOSURE OF ROADWAY FOR WORK ON PUT-189-7.39	45	\$1,500	COMPLETED CONTRACT	COMPLETION DATE							
CLOSURE OF ROADWAY FOR WORK ON WYA-37-9.23	30	\$7,500	COMPLETED CONTRACT	COMPLETION DATE							
CLOSURE OF ROADWAY FOR WORK ON WYA-67-1.08	30	\$1,500	COMPLETED CONTRACT	COMPLETION DATE							
CLOSURE OF ROADWAY FOR WORK ON WYA-67-4.17	30	\$3,000	COMPLETED CONTRACT	COMPLETION DATE							
CLOSURE OF LANE FOR WORK ON HAN-SR 15-17.19 L	7	\$10,000	COMPLETED CONTRACT	COMPLETION DATE							

LANE VALUE CONTRACT TABLE (PN 127)												
DESCRIPTION OF CRITICAL LANE RESTRICTED TIME TIME UNIT DISINCENTIVE TO BE MAINTAINED PERIOD TIME UNIT												
2 LANES OF SB HAN-IR 75 FROM MM 0 TO MM 3	6 AM - 9 PM	EACH HOUR	10,000									

D01-BM-FY24 MODEL: Sheet PAPERSIZE: 17X11 (In.) DATE: 2/5/2024 TIME: 2:32:30 PM USER: eschedie 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 12 SIGN MONTHS (ASSUMING 2 PCMS SIGN(S) FOR 6 MONTH(S))

### COORDINATING MAINTENANCE OF TRAFFIC WITH ADJACENT PROJECTS

DURING THE CONSTRUCT/ON OF THIS PROJECT, OTHER CONSTRUCTION PROJECTS WILL BE ONGOING:

- PID NO. 113032(DEF 127/18/66/281 VAR. RESURFACING)
- PID NO. 114926 (HAN/WYA-US 30-12.22/0.00 PAVEMENT REPAIR PROJECT) PID NO. 112280 (HAN-US 68/SR 15 INTERCHANGE)
- PID NO. 112280 (HAN-03 08/3K 13 INTERCHANGE) PID NO. 107873 (HAN/WYA-US68/SR15/US23-VAR.-MICROSURFACING PROJECT).

THE CONTRACTOR SHALL COORDINATE MAINTENANCE OF TRAFFIC WITH THE CONTRACTORS OF THESE OTHER PROJECTS.

THE CONTRACTOR SHALL COOPERATE WITH THE CONTRACTORS FOR THESE PROJECTS IN A MANNER TO NOT HINDER THE PROGRESS OR COMPLETION OF THE WORK BEGIN PERFORMED BY EACH OTHER. THE TIMING OF THESE PROJECT SHALL BE COORDINATED TO ALLOW FOR COMPLETION OF EACH PROJECTS WORK AS DEFINED IN THE CONSTRUCTION PLANS AND RELATED BID DOCUMENTS. MAINTENANCE OF TRAFFIC GENERAL NOTES

DESIGN AGENCY



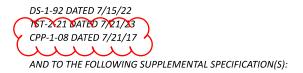
P.4 18

					SHEET	NUM.		$\sim$				P/	ART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET
	2	2A	3		4		12	12A	15	18	OFFICE CALCS.	01/NFP/13	02/IMS/13		EXT	TOTAL			NO.
								$\mathcal{V}$										ROADWAY	
							377					LS 377	LS	201 202	11000 38000	LS 377	FT	CLEARING AND GRUBBING GUARDRAIL REMOVED	
	80						5//					80		SPECIAL	20270130	80	FT	PIPE CLEANOUT OVER 48"	2
							450					450		606	15101	450	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS, AS PER PLAN	2
							4					4		606	26151	4	EACH	ANCHOR ASSEMBLY, MGS TYPE E, AS PER PLAN, (MASH 2016)	2
							4					4		606	34601	4	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE TST-2, AS PER PLAN	2
																		EROSION CONTROL	
		1,200										1,000	200	832	30000	1,200	EACH	EROSION CONTROL	
						-c	$\sim$	$\leftarrow$							-				
						<u> </u>	· ·	136	<u>ک</u>			136		625	25600	136	FT	TRAFFIC SIGNALS	
								130	$\prec$			130		625	25900	149	FT	CONDUIT, JACKED OR DRILLED, 4"	
								136	ノ			136		625	29002	136	FT	TRENCH, 24" DEEP	
								2				2		625	30706	2	EACH	PULL BOX, 725.08, 24"	
	80								7			80		611	96550	80	FT	DRAINAGE FIELD PAVING OF EXISTING PIPE, 96" CMP	
-	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	$\uparrow \sim$	$\uparrow \uparrow \uparrow$	$\sim$	$\gamma \gamma \gamma$	1 m	$\sim$	$\uparrow \uparrow \uparrow$	1 m	$\sim$	$\uparrow \uparrow \uparrow \uparrow$	m m	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	$\gamma\gamma$
	-		60									60		253	01000	60	SY	PAVEMENT REPAIR	
<u> </u>	20							ļ				20		253	01001	20	SY	PAVEMENT REPAIR, AS PER PLAN	2
`	$\sim$	$\mathcal{A}$	$\mathcal{L}$	$\mathcal{L}$	$\mathcal{L}$	L L	27	μυ	$\mathcal{P}$	$\mathcal{X}$	$\sim$	27	$\sim$	304	20000	27	CY	PAVEMENT ALANANG, ASPHALT CONCAETE XT=1/s")	$\mathcal{P}$
							2/					27		504	20000	21	Cr		
							60 28					60 28		407 441	20000 50000	60 28	GAL CY	NON-TRACKING TACK COAT ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	
		$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	$+ \sim$	$+ \sim$	$\sim$	$\sim$	m	$\neg \gamma$	h	$ \longrightarrow $	$h \sim$	$\neg$	$h \sim$	ELECTRICAL	
	(	4	• •	· · · ·	•••	•••	<u> </u>		• • •	•••		4	· ·	625	33000	4	EACH		
	(													025	33000	لت			
		$\sim$		$\sim$	$\sim$	$\sim$			$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$		TRAFFIC CONTROL	
							4					4		620	00500	4	EACH	DELINEATOR, POST GROUND MOUNTED	
							6					6		620	40200	6	EACH	REFLECTOR	
							0.26					0.26		642 642	00104	0.26	MILE	EDGE LINE, 6", TYPE 1 CENTER LINE, TYPE 1	
																		STRUCTURE REPAIR (ALL-75-0329, SFN: 0201723)	
											LS		LS	202	11202	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN	
									514		50		514	509	10001	514	LB	EPOXY COATED STEEL REINFORCEMENT, AS PER PLAN	13
											50 6		50 6	509 511	20001 34411	50 6	LB CY	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN CLASS QC2 CONCRETE, SUPERSTRUCTURE, AS PER PLAN	13
											77		77	511	71200	77	SF	CONCRETE, MISC.: FORMING OF ROUGH CUT STONE FINISH USING FORMLINERS	15
											17 3		17 3	512 512	10051 10101	17 3	SY SY	SEALING OF CONCRETE SURFACES (NON-EPOXY), AS PER PLAN SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	13 13
+											80	80		516	14600	80	FT (	STRUCTURAL JOINT OR JOINT SEALER, MISC.: PRECOMPRESSED EXPANSION JOINT FILLER	
														L.	V		(		
														<b>F</b> 4.2	04000			STRUCTURE REPAIR (HAN-15-1791 L, SFN: 3200485)	
-+								+			36	36		516	01301	36	FT	ELASTOMERIC STRIP SEAL WITHOUT STEEL EXTRUSIONS, AS PER PLAN	14
								1						m	tr		/	\$TRUCTUKE REPAIR/HAN-75-01224, SPM: 3202259	$\cap$
											58	58		<b>y</b> 516	14600	58	FT	STRUCTURAL JOINT OR JOINT SEALER, MISC.: PRECOMPRESSED EXPANSION JOINT FILLER	14
														LL L	V			mmmm	
							<u> </u>	1			70	70		E4.0	01201	70		STRUCTURE REPAIR (HAN-75-0378, SFN: 3204448)	
											72	72		516	01301	72	FT	ELASTOMERIC STRIP SEAL WITHOUT STEEL EXTRUSIONS, AS PER PLAN	14
										1	$\sim$	$\sim$	$\uparrow \uparrow \uparrow$	$\uparrow \uparrow \uparrow \uparrow$	$\uparrow \uparrow \uparrow \uparrow$	$\uparrow \uparrow \uparrow$	$\uparrow \uparrow \uparrow \uparrow$	STRUCTURE REPAIR (PUXT-11%-1431, SPN: 6901298)	$\rightarrow$
											80	80		509	10001	80	LB	EPOXY COATED STEEL REINFORCEMENT, AS PER PLAN	13
							L			(	130	130		509	20001	130	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN	13
										<b>(</b>	40	40		512	10600		FT ک	CONCRETE REPAIR BY EPOXY INJECTION	$\neg$
							1	1			LS	LS	$\sim$	516	47001		$\overline{\gamma}$	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	
							1	1			525	525		SPECIAL	51900100	525	SF	COMPOSITE FIBER WRAP SYSTEM	PN 519
											100	100		519	11101	100	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	<b>y</b> 13
							1	1			30	30		843	50000	30	SF	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR	

				SHEET NUM.				PA	RT.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET			
2	2A	3		4		12	12A _	15	18	OFFICE CALCS.	01/NFP/13	02/IMS/13	11 2101	EXT	TOTAL	onn		NO.
							$\overline{\mathbf{h}}$										STRUCTURE REPAIR (PUT-189-0739, SFN: 6901387)	
							$\cup$		LS		LS		202	11202	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN	
						_			147		147		202	38500	147	FT	BRIDGE RAILING REMOVED	
									9,363		9,363		509	10001	9,363	LB	EPOXY COATED STEEL REINFORCEMENT, AS PER PLAN	13
									94 31		94 31		509 511	20001	94 31	LB CY	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN	13
									51		51		511	34410	51	Cr	CLASS QC2 CONCRETE, SUPERSTRUCTURE	
									44		44		512	10100	44	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
									33		33		512	10300	33	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
									77		77		516	31000	77	FT	JOINT SEALER	
									154.3		154.3		517	70100	154.3	FT	RAILING (THREE STEEL TUBE BRIDGE RAILING)	
									177		177		SPECIAL	51822300	177	FT	STEEL DRIP STRIP	DS-1-92
									243		243		519	11100	243	SF	PATCHING CONCRETE STRUCTURE	
									2,308		2,308		SPECIAL	53000300	2,308	LB	STRUCTURES WELDED WIRE REINFORCEMENT	13
									344		344		848	10200	344	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, (T=7")	13
									404		404		848	20000	404	SY	SURFACE PREPARATION USING HYDRODEMOLITION, (T=1")	
			L						10		10		848	30200	10	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY	
							1		17		17		848	50000	17	SY	HAND CHIPPING	<b> </b>
							+		LS 2		LS 2		848 848	50100 50200	LS 2	CY	TEST SLAB FULL-DEPTH REPAIR	<u> </u>
						1			404		404		848	50200	404	SY	WEARING COURSE REMOVED, ASPHALT, (T=6")	+
					L	1	1											
																	STRUCTURE REPAIR (PUT-634-1027, SFN: 6901956)	
										85.15	85.15		516	01301	85.15	FT	ELASTOMERIC STRIP SEAL WITHOUT STEEL EXTRUSIONS, AS PER PLAN	14
										170	170		SDECIAL	E0771200	170	FT	STRUCTURE REPAIR (VAN-118-0598, SFN: 8101868)	14
										170	170		SPECIAL	50771200	170	FI	PILE ENCASEMENT	14
										$\sim$	$\neg \gamma$	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	TTRUCTURE REVAIR (VAN(418-4701)(SFN(8104239))	
										250	250		509	20001	250	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN	13
										20	20		512	10600	20	FT	CONCRETE REPAIR BY EPOXY INJECTION	
										L.	L	$\mathcal{L}$	<u> </u>	LLL	LLL	<u> </u>		
										269	269		SPECIAL	51900100	269	SF	COMPOSITE FIBER WRAP SYSTEM	PN 519
										461 92	461		519 843	11101	461	SF SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR	13
										56	92 56		845	50000 00110	92 56	CF	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM	
													010	00110		01		
										$\frown$	$\sim$				$\frown$		STRUCTURE REPAIR (WYA-37-0923, SFN: 8801657)	
										<b>&gt;</b> 10	10 🗸		516	45305	<b>Y</b> 10	EACH	REFURBISH BEARING DEVICE, AS PER PLAN	14
										LS	LE J		516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	14
						-				36	36		519	11101	36	SF SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	13
										36	36		843	50000	36	55	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR	
																	STRUCTURE REPAIR (WYA-67-0109, SFN: 8801983)	
										93	93		512	10600	93	FT	CONCRETE REPAIR BY EPOXY INJECTION	
										34	34		519	11101	34	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	13
										555	555		858	10000	555	SY	THIN POLYMER EPOXY OVERLAY	
										70	70		512	10600	70	FT	STRUCTURE REPAIR (WYA-67-0418, SFN: 8802025) CONCRETE REPAIR BY EPOXY INJECTION	<u> </u>
						1				19	19		512	10600	19	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	13
					L	1				342	342		858	10000	342	SY	THIN POLYMER EPOXY OVERLAY	
			1			1	1											
																	MAINTENANCE OF TRAFFIC	
		60									60		253	02000	60	CY	PAVEMENT REPAIR	
		60									60		407	10000	60	GAL		ļ
		30									30		441	70000	30	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	<b> </b>
		56									56		614	11110	56		LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
			1	12		1	1				12	· · ·	614	18601	12	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	4
				0.81		1					0.8	لالا	入 64 入	21,00	12 1081 V	入 MUE 入		
				12							12		616	10000	12	MGAL	WATER	
		150									150		617	10100	150	CY	COMPACTED AGGREGATE	
1							1						C14	11000				<b> </b>
			1	1			1				LS	LS	614	11000	LS		MAINTAINING TRAFFIC	<b>I</b>
											LS	LS	624	10000	LS		MOBILIZATION	1 1

### STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWING(S):



848 DATED 1/15/21 843 DATED 10/18/19 858 DATED 4/20/18

### DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 9th EDITION\* OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPOR-TATION OFFICIALS, 2020\* AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

### DESIGN DATA

CONCRETE CLASS QC2: COMPRESSIVE STRENGTH 4.5 KSI (SUPERSTRUCTURE)

CONCRETE REINFORCEMENT: EPOXY COATED STEEL REINFORCEMENT - MINIMUM YIELD STRENGTH 60-KSI

### DECK PROTECTION METHOD (PUT-189-07.39)

-EPOXY COATED STEEL REINFORCEMENT - C&MS 709.00 -MINIMUM CONCRETE COVER OF 2.5" -CLASS QC2 CONCRETE -SUPERPLASTICIZED DENSE CONCRETE OVERLAY -STAINLESS STEEL DRIP STRIPS

### DEMOLITION DEBRIS

THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID AND/OR LIMIT DEMOLITION FROM ENTERING THE WATERWAY/RIVER. ANY MATERIAL THAT DOES ENTER THE WATERWAY/RIVER SHALL BE IMMEDIATLY REMOVED.

### WORK ON STRUCTURES OVER WATERWAYS

UNLESS COVERED BY THE WATERWAY PERMITS, WORK IS NOT PERMITTED IN THE WATERWAYS. HOWEVER, WORK IS PERMITTED A THE ABUTMENTS AND AT THE TOPS OF THE BANKS OF THE WATERWAYS. ADDITIONALLY, NO WORK, MATERIALS, EQUIPMENT AND/OR INCIDENTALS ARE PERMITTED WITHIN OR BELOW THE ORDINARY HIGH WATER MARK (OHWM).

IF NEEDED, THE OHWM CAN BE STAKED BY ODOT, DISTRICT 1, PLANNING AND ENGINEERING DEPARTMENT PRIOR TO INITIATING WORK AT THE STRUCTURES OVER WATERWAYS. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER AND REQUEST THE OHWM STAKING 14 DAYS PRIOR TO STARTING WORK. THE PROJECT ENGINEER WILL NOTIFY THE DISTRICT ENVIRONMENTAL COORDINATOR AND DISTRICT SURVEY OPERATIONS MANAGER TO REQUEST THE STAKING OF THE OHWM BY ODOT, DISTRICT 1, PLANNING AND ENGINEERING DEPARTMENT.

ALL SPALLING CONCRETE REMOVAL OF MID SPAN, UNDERSIDE DECK SECTIONS SHALL BE DONE IN A MANNOR TO ENSURE THAT NO MATERIALS OR EQUIPMENT ENTER THE WATERWAY.

### ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN

THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SPARATELY LISTED FOR PAYMENT, EXCEPT FOR WEARING COURSE REMOVAL. ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER. THE DEPARTMENT WILL NOT PERMIT THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE-RAMS WILL NOT BE PERMITTED. DO NOT BEGIN WORK UNTIL THE ENGINEER ACCEPTS THE METHOD OF REMOVAL AND THE WEIGHT OF HAMMER SHALL BE APPROVED BY THE ENGINEER. PERFORM ALL WORK IN A MANNER THAT WILL NOT CUT, ELONGATE OR DAMAGE THE EXISTING CONCRETE REINFORCEMENT TO BE PRESERVED. CHIPPING HAMMERS SHALL NOT BE HEAVIER THAN THE NOMINAL 90-POUND CLASS. PNEUMATIC HAMMERS SHALL NOT BE PLACED IN DIRECT CONTACT WITH CONCRETE REINFORCEMENT THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE. SUBMIT CONSTRUCTION PLANS ACCORDING TO C&MS 501.05.

### CUT LINE CONSTRUCTION JOINT PREPARATION:

SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS 1 INCH DEEP. REMOVE CONCRETE TO A ROUGH SURFACE. LEAVE THE EXISTING CONCRETE REINFORCEMENT, IF REQUIRED IN THE PLANS, IN PLACE. INSTALL DOWEL BARS IF SPECIFIED. PRIOR TO CONCRETE PLACEMENT ABRASIVELY CLEAN JOINT SURFACES AND EXISTING EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTEGRATED CONCRETE AND LOOSE RUST. THOROUGHLY CLEAN THE JOINT SURFACE AND EXPOSED REINFORCEMENT OF ALL DIRT, DUST, RUST, OR OTHER FOREIGN MATERIAL BY THE USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE SATISFACTORY RESULTS. EXISTING STEEL REINFORCEMENT DOES NOT HAVE TO HAVE A BRIGHT STEEL FINISH BUT REMOVE ALL PACK AND LOOSE RUST. THOROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING CONCRETE.

THIS ITEM INCLUDES THE REMOVAL OF 3'-8"± OF THE EXISTING DECK EDGES AS SHOWN ON THE PLANS. THE EXISTING TRANSVERSE DECK REINFORCING STEEL SHALL REMAIN. THE CONTRACTOR SHALL CHIP ALL EXISTING CONCRETE OFF OF THE EXPOSED REINFORCING STEEL THAT IS TO REMAIN TO CREATE A CLEAN SURFACE TO ENSURE PROPER ADHESION OF NEW CONCRETE.

### ITEM 509 - CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN

REPLACE ALL EXISTING REINFORCING BARS DEEMED BY THE ENGINEER TO BE UNUSABLE BECAUSE OF CORROSION. THE DEPARTMENT WILL MEASURE THE REPLACEMENT CONCRETE REINFORCEMENT BY THE NUMBER OF POUNDS ACCEPTED IN PLACE. REPLACE ALL EXISTING STEEL REINFORCEMENT BARS WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND ARE DEEMED BY THE ENGINEER TO BE MADE UNUSABLE BY CONCRETE REMOVALOPERATIONS WITH NEW CONCRETE REINFORCEMENT OF THE SAME SIZE, COATING, AND MATERIAL AT NO COST TO THE DEPARTMENT.

### FINISHING EQUIPMENT SUPPORT PLAN

THE CONTRACTOR IS HEREBY ADVISED THAT HE/SHE SHALL NOT BE PERMITTED TO USE THE EXISTING OR PROPOSED RAILING TO SUPPORT THE FINISHING EQUIPMENT. THE CONTRACTOR SHALL SUBMIT TO THE DISTRICT CONSTRUCTION ENGINEER FOR APPROVAL BY THE DIRECTOR A PLAN DETAILING THE METHOD TO BE USED TO SUPPORT THE FINISHING EQUIPMENT. THIS PLAN SHALL BE SUBMITTED AND APPROVED PRIOR TO THE PLACING OF PROPOSED DECK OVERLAY.

### STRUCTURE GROUNDING SYSTEM

SYSTEM CONFORI	MING TO SCD NU DNSTRUCT THIS S	TRUCTURE REQUIRES A GROUNDING MBER HL-50.21. ALL COSTS YSTEM ARE PAID PER EACH WITH NG SYSTEM.	IN FIE NE BA RE
ITEM SPECIAL - ST	TRUCTURE, MISC	: WELDED WIRE REINFORCEMENT	
		TS OF FURNISHING AND PLACING	ITI
		WIRE OF THE TYPE AND SIZE	A
		HIPPING, GALVANIZING AND	AN
PLACEMENT IN TH	HE BRIDGE DECK.		ITE
			M
MATERIALS: FURN REQUIREMENTS (		CONFORMING TO THE ND CMS 709.12.	AS
			PA
		CATING THE WELDED WIRE	SQ
		DRAWINGS ACCORDING TO CMS TAININGS ALL NECESSARY	TR M
FABRICATION DET	AILS, MATERIAL L	ISTS, MATERIAL DESIGNATIONS, AND R ANY SECURING MATERIALS.	W
FABRICATION: FAI	BRICATOR IS TO C	ONFORM TO SUPPLEMENTAL	ITI
		I TOLERANCES SHALL BE IN	
ACCORDANCE WI	TH THE REQUIRE	MENTS OF ACI 318.	Th
MATERIAL IDENTI		EINFORCEMENT BUNDLES, TAGGED	IN OI
		TH THE CRSI "MANUAL OF STANDARD	
PRACTICE .			PA SC
HANDLING AND S	TORAGE: STORE	REINFORCEMENT ABOVE GROUND	UF
ON PLATFORMS, S	SKIDS, OR OTHER	SUPPORTS AND PROTECT THE	M
		ROM MECHANICAL INJURY AND	W
		BY EXPOSURE TO CONDITIONS EINFORCEMENT SHALL BE HANDLED	
		VILL NOT DAMAGE THE COATING.	ITI
		OR DRAGGED. PRIOR TO PLACEMENT	
OF DECK CONCRE	TE, ALL REINFOR	CEMENT SHALL BE FREE FROM DIRT	
		T REDUCE BOND. WIRE	Th
		CUT AND/OR DAMAGED SHALL BE	FC
REPAIRED IN ACCO	JRDANCE WITH A	ASTM A780 METHOD A1 OR A3.	1.
PLACEMENT: ACC	URATELY PLACE S	TEEL REINFORCEMENT AS SHOWN	1. 2.
		RMLY HOLD THE REINFORCEMENT IN	3.
POSITION DURING	G THE PLACING A	ND FINISHING OF THE OVERLAY	4.
		S WILL NOT BE PERMITTED. PROVIDE	
		TIE WIRES, CHAIRS, SUPPLEMENTARY	PA
		M SPACERS AND OTHER APPROVED REINFORCEMENT AS SHOWN ON THE	BE
		ALL BE PLACED, INSPECTED, AND	
		DRE PLACING OF OVERLAY MATERIAL	ΙΤΙ
BEGINS.			A
METHOD OF MEA	SUREMENT: THE	DEPARTMENT WILL MEASURE THE	OF
WELDED WIRE RE	INFORCEMENT B	Y THE NUMBER OF POUNDS	DE
REQUIRED. WEIG PAY WEIGHT.	HT OF WELDS AN	D GALVANIZING NOT INCLUDED IN	PR
	T DAVA		PR
		THIS WORK INCLUDES GALVANIZING	HC
,		V DRAWINGS AND ALL ACCEPTED NCLUDING MATS AND SINGLE WIRES	TC AC
COMPLETE IN PLA			W
			W
ITEM:	UNIT:	DESCRIPTION:	
ITEM SPECIAL	POUND	STRUCTURE, MISC.: WELDED	PA
		WIRE REINFORCEMENT	SC W
			W. IN
			111

### ITEM 509 - EPOXY COATED STEEL REINFORCEMENT, AS PER PLAN

IN ADDITION TO THE PROVISIONS OF ITEM 509, FIELD BEND AND/OR FIELD CUT THE STEEL REINFORCEMENT DESIGNATED IN THE PLANS, AS NECESSARY, IN ORDER TO MAINTAIN THE REQUIRED CLEARANCES AND BAR SPACINGS. REPAIR ALL DAMAGE TO THE EPOXY COATING, AS A RESULT OF THIS WORK, ACCORDING TO C&MS 709.00.

### TEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR

A QUANTITY IS INCLUDING IN THE ESTIMATED QUANTITIES TO REPAIR ANY DETERIORATED AREAS ON THE PIERS, CAPS AND WINGWALLS WITH ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR, WHERE THE DEPTH OF PATCH IS EQUAL TO OR LESS THAN 3", AS LOCATED BY AND TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER SQ FT FOR ITEM 843 - PATCHING CONCRETE STRUCTURE WITH TROWELABLE MORTAR WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

### TEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

THE CONTRACTOR SHALL SEAL ALL LOCATIONS THAT HAVE QUANTITIES INCLUDED IN THE STRUCTURES GENERAL SUMMARIES FOR THE AREAS ON BRIDGES NOTED IN THE PLANS.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER SQ YD FOR ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

### TEM 512 - SEALING OF CONCRETE SURFACES (NON-EPOXY CLEAR, AS PER PLAN)

HE NON-EPOXY (CLEAR) SEALER SHALL BE USED ON THE OLLOWING SURFACES ACCORDING TO THE DETAILS IN PLANS:

ABUTMENT AND WINGWALL FACES. PIERS. DECK AND PARAPETS. TOWER FACES.

PAYMENT FOR SEALING SURFACES OF ITEMS 1, 2, 3, AND 4 SHALL BE INCLUDED IN THIS ITEM 512.

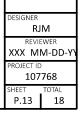
### EM 519 - PATCHING CONCRETE STRUCTURE, AS PER PLAN

A QUANTITY OF THIS ITEM IS INCLUDED IN THE ESTIMATED QUANTITIES OF EACH STRUCTURE TO REPAIR ANY DETERIORATED AREAS WHERE THE DEPTH OF THE PATCH IS GREATER THAN 3", AS LOCATED BY THE PROJECT ENGINEER.

PRIOR TO THE SURFACE CLEANING SPECIFIED IN 519.04 AND WITHIN 24 HOURS OF PLACING PATCHING MATERIAL, BLAST CLEAN ALL SURFACES TO BE PATCHED INCLUDING THE EXPOSED REINFORCING STEEL. ACCEPTABLE METHODS INCLUDE HIGH-PRESSURE WATER BLASTING WITH OR WITHOUT ABRASIVES IN THE WATER, ABRASIVE BLASTING WITH CONTAINMENT, OR VACUUM ABRASIVE BLASTING.

AYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER Q FT FOR ITEM 519 - PATCHING CONCRETE STRUCTURE, AS PER PLAN WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND NCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK. DESIGN AGENCY





### ITEM 516 - JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN

THIS WORK CONSISTS OF RAISING OR RE-POSITIONING EXISTING STRUCTURES TO THE DIMENSIONS AND REQUIREMENTS DEFINED IN THE PROJECT PLANS. SUBMIT CONSTRUCTION PLANS IN ACCORDANCE WITH C&MS 501.05. IF, DURING THE JACKING OPERATIONS, CRACKING OF THE CONCRETE SUPERSTRUCTURE. SEPARATION OF THE CONCRETE DECK FROM THE STEEL STRINGERS, OR OTHER DAMAGE TO THE STRUCTURE IS VISUALLY OBSERVED, IMMEDIATLY CEASE THE JACKING **OPERATION AND INSTALL SUPPORTS TO THE SATISFACTION OF THE** ENGINEER. ANALYZE THE DAMAGE AND SUBMIT A METHOD OF CORRECTION TO THE ENGINEER FOR APPROVAL. EPOXY INJECT ALL BEAMS THAT SEPARATE FROM THE DECK FOR A DISTANCE OF THE SEPARATION IN ACCORDANCE WITH C&MS 512.07. THE BRIDGE BEARINGS SHALL BE FULLY SEATED ALL CONTACT AREAS. IF FULL SEATING IS NOT ATTAINED, SUBMIT A REPAIR PLAN TO THE ENGINEER. THE DEPARTMENT WILL NOT PAY FOR THE COST OF THIS EPOXY INJECTION OR OTHER REQUIRED REPAIRS. THE BRIDGE BEARINGS SHALL BE FULLY SEATED ALL CONTACT AREAS. IF FULL SEATING IS NOT ATTAINED, SUBMIT A REPAIR PLAN TO THE ENGINEER. THE DEPARTMENT WILL NOT PAY FOR THE REPAIR COSTS TO ENSURE FULL SEATING ON BEARINGS. THE DEPARTMENT WILL MEASURE THIS WORK ON LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 516, JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN.

### **EXISTING STRUCTURE VERIFICATION**

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO C&MS, SECTIONS 102.05 AND 105.02. BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER. THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD. COPIES OF THE EXISTING PLANS ARE ON FILE AND AVAILABLE TO BE INSPECTED AT THE DISTRICT 1 OFFICE IN LIMA.

### ITEM 516 - REFURBISHING BEARING DEVICES, AS PER PLAN

THIS ITEM SHALL INCLUDE ALL WORK NECESSARY TO PROPERLY ALIGN BRIDGE BEARINGS, AS WELL AS THEIR CLEANING AND PAINTING. INCLUDED SHALL BE THE DISASSEMBLY OF THE BEARINGS, HAND TOOL CLEANING (GRINDING IF NECESSARY), PAINTING ACCORDING TO ITEM 514, REPLACEMENT OF ANY DAMAGED SHEET LEAD WITH PREFORMED BEARING PADS (C&MS 711.21), INSTALLATION OF ANY NECESSARY STEEL SHIMS OF THE SAME SIZE AS THE BEARINGS TO PROVIDE A SNUG FIT, REALIGNMENT OF THE UPPER BEARING PLATE BY REMOVING EXISTING WELDS AND REWELDING SO THAT THE BEARINGS ARE VERTICALLY ALIGNED AT 60 DEGREES FARENHEIT. LUBRICATING SLIDING SURFACES. AND REASSEMBLY OF THE BEARINGS. ASSURE ALL BEARINGS ARE SHIMMED ADEQUATELY AND THAT NO BEAMS AND/OR BEARING DEVICES ARE "FLOATING". AT NO ADDITIONAL COST TO THE STATE, THE CONTRACTOR MAY INSTALL NEW BEARINGS OF THE SAME TYPE AS THE EXISTING IN PLACE OF REFURBISHING THE BEARINGS ALL WORK SHALL BE TO THE SATISFACTION OF THE ENGINEER. PAYMENT FOR ALL OF THE ABOVE DESCRIBED LABOR AND MATERIALS WILL BE MADE AT THE CONTRACT PRICE BID FOR ITEM 516 - REFURBISH BEARING DEVICES, AS PER PLAN.

### ITEM SPECIAL - PILE ENCASEMENT

ENCASE ALL STEEL H-PILES FOR THE CAPPED PILE PIERS IN CONCRETE CONFORMING TO C&MS 511 (F'C = 4.0 KSI). PROVIDE A CONCRETE SLUMP BETWEEN 6 TO 8 INCHES WITH THE USE OF A SUPERPLASTICIZER. PLACE THE CONCRETE WITHIN A FORM THAT CONSISTS OF POLYETHYLENE PIPE (707.33), OR PVC PIPE (707.42). THE ENCASEMENT SHALL EXTEND FROM 3 FEET BELOW THE FINISHED GROUND SUFACE UP TO THE CONCRETE PIER CAP. POSITION THE PIPE SO THAT AT LEAST 3 INCHES OF CONCTRETE COVER IS PROVIDED AROUND THE EXTERIOR OF THE PILE .

THE DEPARTMENT WILL MEASURE PILE ENCASEMENT BY THE NUMBER OF FEET. THE DEPARTMENT WILL DETERMINE THE SUM AS THE LENGTH MEASURED ALONG THE AXIS OF EACH PILE FROM THE BOTTOM OF THE ENCASEMENT TO THE BOTTOM OF THE PIER CAP. THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM - SPECIAL, PILE ENCASEMENT.

### ITEM 516 - ELASTOMERIC STRIP SEAL WITHOUT STEEL EXTRUSION, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ITEM 516 AND STANDARD CONSTRUCTION DRAWING EXJ-4-87, THIS ITEM SHALL ALSO INCLUDE ALL MATERIAL, EQUIPMENT, AND LABOR REQUIRED TO REMOVE THE EXISTING STRIP SEAL AND CLEAN THE EXISTING STEEL RETAINER FOR INSTALLATION OF THE REPLACEMENT STRIP SEAL.

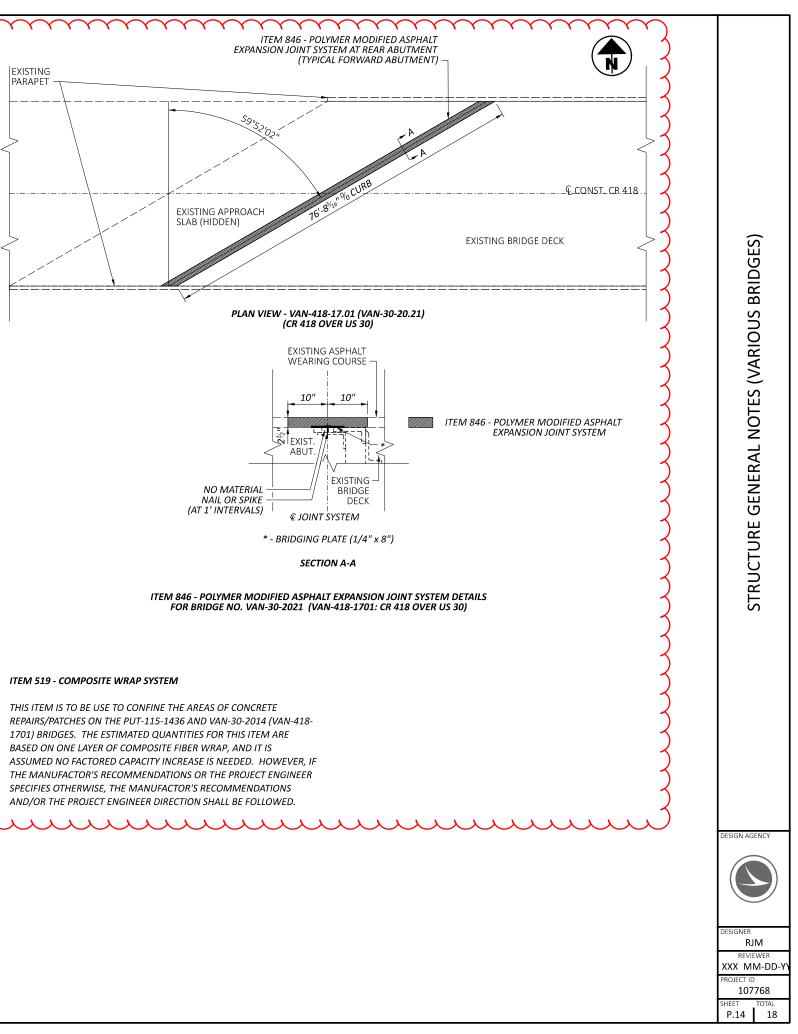
PAYMENT FOR THE WORK ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID PER FT FOR ITEM 516 - ELASTOMERIC STRIP SEAL WITHOUT STEEL EXTRUSION, AS PER PLAN, WHICH SHALL INCLUDE ALL MATERIAL, EQUIPMENT, LABOR, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.

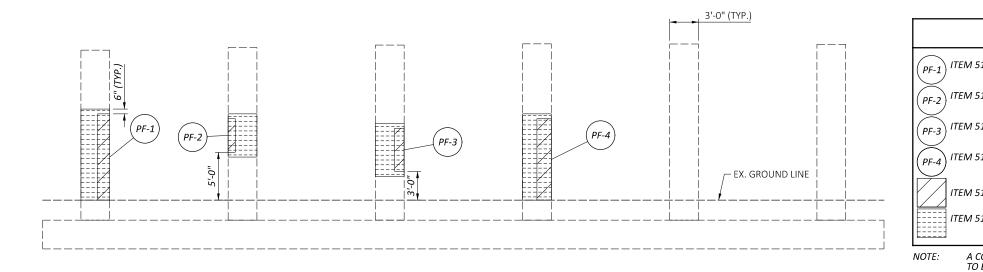
### ITEM 516 - STRUCTURAL JOINT OR JOINT SEALER, MISC:

PRECOMRESSED EXPANSION JOINT FILLER, AS PER PLAN

- FOR THE ALL-117-12.41 STRUCTURE, IN ADDITION TO THE REQUIREMENTS OF ITEM 516 AND STANDARD CONSTRUCTION DRAWINGS EXS-2-81 AND EXS-3-82, THIS ITEM SHALL ALSO INCLUDE ALL MATERIAL, EQUIPMENT, AND LABOR REQUIRED
- TO REMOVE THE EXISTING COMPRESSION SEAL AND CLEAN THE EXISTING STEEL RETAINER FOR INSTALLATION OF THE REPLACEMENT COMPRESSION SEAL.
- FOR THE HAN-75-1.22L STRUCTURE, IN ADDITION TO THE
- REQUIREMENTS OF ITEM 516 AND STANDARD CONSTRUCTION DRAWINGS FXS-2-81 AND FXS-3-82 THIS ITEM SHALL ALSO
- INCLUDE ALL MATERIAL, EQUIPMENT, AND LABOR REQUIRED
- TO REMOVE THE EXISTING COMPRESSION SEAL AND CLEAN
- THE EXISTING ARMOR STEEL FOR INSTALLATION OF THE
- REPLACEMENT EMSEAL COMPRESSION JOINT OR EQUAL. THE REPLACEMENT EMSEAL COMPRESSION JOINT OR EQUAL SHALL
- BE SIZED TO ACCOMMODATE 3 INCHES OF MOVEMENT AND
- ADHERE TO THE SIDE OF THE EXISTING ARMOR STEEL. THE
- CONTRACTOR SHALL FIELD VERIFY THE EXISTING OPENING
- AND SIZE OF SEAL BASED ON MANUFACTURER'S
- RECOMMENDATION.

PAYMENT FOR THE WORK ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID PER FT FOR ITEM 516 - STRUCTURAL JOINT OR JOINT SEALER, MISC: PRECOMRESSED EXPANSION JOINT FILLER, AS PER PLAN, WHICH SHALL INCLUDE ALL MATERIAL, EQUIPMENT, LABOR, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.





FORWARD PIER - VAN-30-20.41

- DIRECTION OF TRAVEL FOR EASTBOUND TRAFFIC

JSER: TIME: 1:19:07 PM DATE: 2/3/2024 17x11 (in.) D01-BM-FY24

### PROPOSED LEGEND

ITEM 519 - PATCHING CONCRETE STRUCTURES, AS PER PLAN (2'-6" x 9'-0" AROUND RADIUS)

ITEM 519 - PATCHING CONCRETE STRUCTURES, AS PER PLAN (1'-6" x 3'-6" AROUND RADIUS)

ITEM 519 - PATCHING CONCRETE STRUCTURES, AS PER PLAN (2'-0" x 4'-6" AROUND RADIUS)

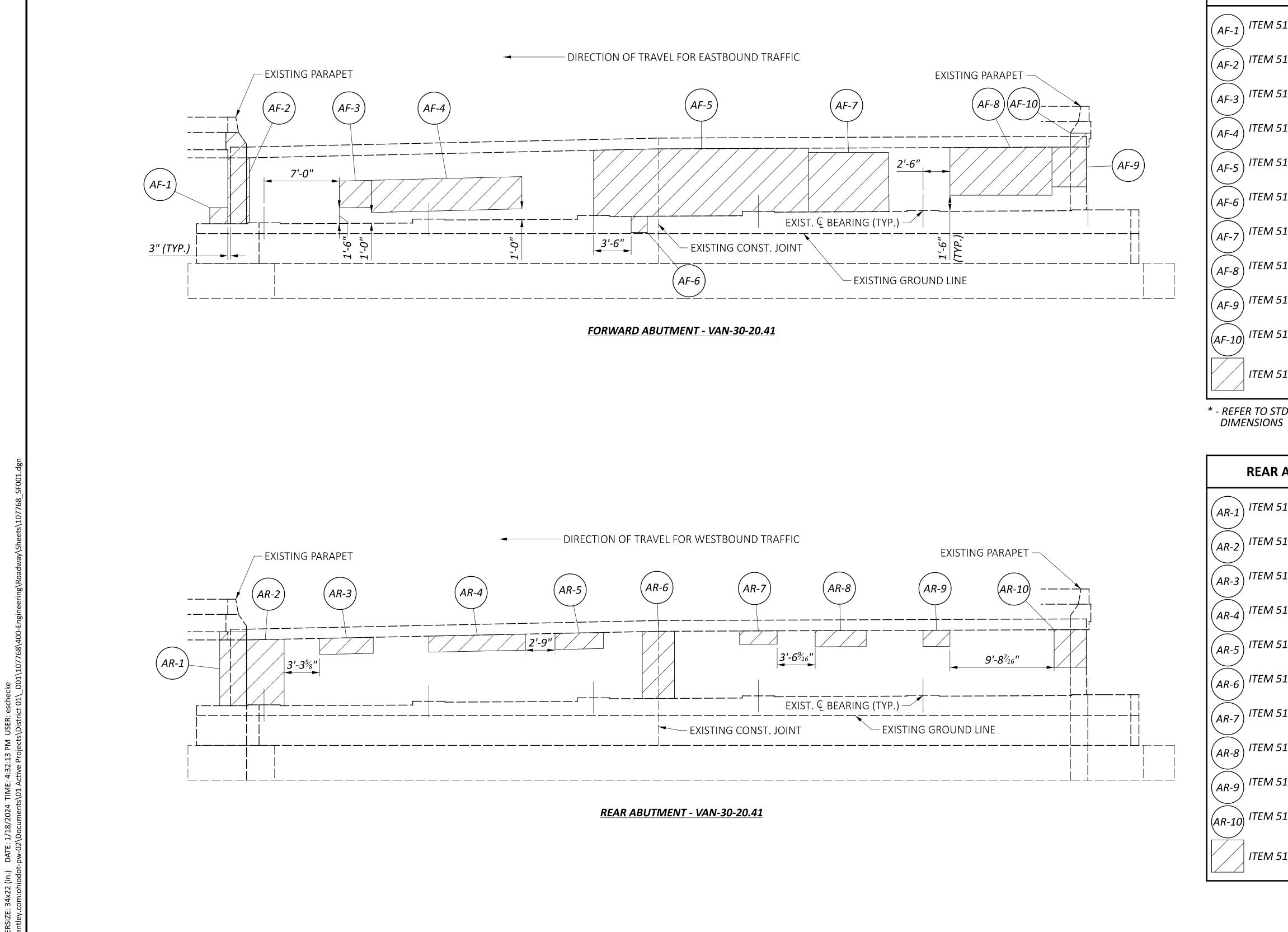
ITEM 519 - PATCHING CONCRETE STRUCTURES, AS PER PLAN (3'-0" x 8'-6" AROUND RADIUS)

ITEM 519 PATCHING AREA

ITEM 519 - COMPOSITE FIBER WRAP SYSTEM AREA (SEE NOTE)

A COMPOSITE FIBER WRAP SYSTEM SHALL BE USED TO ENCASE THE CONCRETE PATCHES ONCE CURED. THE WRAP SHALL ENCASE THE ENTIRE CIRCUMF-ERENCE OF THE COLUMN AND PROVIDE ENOUGH DEPTH TO COVER THE PATCHED AREA, PLUS AN ADDITIONAL 6" FROM THE PAICHED AREA, PLOS AN ADDITIONAL 6" FROM THE TOP AND BOTTOM EDGES OF THE PATCHES (DISREGARD THE BOTTOM EDGE IF THERE IS LESS THAN 6" OF CLEARANCE BETWEEN THE EXISTING GROUND LINE AND THE BOTTOM EDGE).

AN ESTIMATED QUANTITY OF 20 FT OF ITEM 512 -CONCRETE REPAIR BY EPOXY INJECTION IS PROVIDED FOR USE AS DIRECTED BY THE ENGINEER IN AREAS WHERE ITEM 519 - COMPOSITE WRAP SYSTEM IS APPLIED.



-BM-FY24

D01

## FORWARD ABUTMENT PROPOSED LEGEND

- ITEM 519 PATCHING CONCRETE STRUCTURES, AS PER PLAN (1'-8" x 1'-6")
- ITEM 519 PATCHING CONCRETE STRUCTURES, AS PER PLAN (2''-0'' x 8'-6'')\*
- ITEM 519 PATCHING CONCRETE STRUCTURES, AS PER PLAN (3'-0" x 2'-6")
- ITEM 519 PATCHING CONCRETE STRUCTURES, AS PER PLAN (14'-0" x 3'-0")
- ITEM 519 PATCHING CONCRETE STRUCTURES, AS PER PLAN (20'-0" x 6'-0")
- ITEM 519 PATCHING CONCRETE STRUCTURES, AS PER PLAN (1'-6" x 1'-6")
- ITEM 519 PATCHING CONCRETE STRUCTURES, AS PER PLAN (7'-6" x 5'-6")
- ITEM 519 PATCHING CONCRETE STRUCTURES, AS PER PLAN (9'-6" x 4'-6")
- ITEM 519 PATCHING CONCRETE STRUCTURES, AS PER PLAN (3'-3" x 3'-9")
- ITEM 519 PATCHING CONCRETE STRUCTURES, AS PER PLAN (1'-11" x 1'-4")\*

ITEM 519 PATCHING AREA

\* - REFER TO STD. DWG. BR-1-67 SHEET 1 FOR PARAPET

## **REAR ABUTMENT PROPOSED LEGEND**

- ITEM 519 PATCHING CONCRETE STRUCTURES, AS PER PLAN (2'-6" x 6'-11")
- ITEM 519 PATCHING CONCRETE STRUCTURES, AS PER PLAN (3'-6" x 6'-2")
- ITEM 519 PATCHING CONCRETE STRUCTURES, AS PER PLAN (5'-0" x 1'-6")
- ITEM 519 PATCHING CONCRETE STRUCTURES, AS PER PLAN (9'-0" x 1'-6")
- ITEM 519 PATCHING CONCRETE STRUCTURES, AS PER PLAN (4'-6" x 1'-6")
- ITEM 519 PATCHING CONCRETE STRUCTURES, AS PER PLAN (3'-0" x 6'-3")
- ITEM 519 PATCHING CONCRETE STRUCTURES, AS PER PLAN (3'-6" x 1'-3")
- ITEM 519 PATCHING CONCRETE STRUCTURES, AS PER PLAN (4'-9" x 1'-6")
- ITEM 519 PATCHING CONCRETE STRUCTURES, AS PER PLAN (2'-6" x 1'-6")
- ITEM 519 PATCHING CONCRETE STRUCTURES, AS PER PLAN (3'-0" x 3'-6")

ITEM 519 PATCHING AREA

BRIDGE NO. VAN-30-20.41 CR 418 OVER US 30	
DESIGNER MJK REVIEWER XXX MM-DD-YY PROJECT ID 107768	
SHEET TOTAL P.16B 18	

