FOR LOCATION MAP, SEE SHEET 2

LOCATION MAP

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

NONE REQUIRED



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

		57	ANDARD	CONSTRUCTION	DRAWINGS	SUPPI SPECII	EMENTAL	SPECIAL PROVISIONS	
DM-4.3	1/15/16 TC-	-41.20	10/18/13			800	7/19/24		
DM-4.4	1/15/16 TC-	2-42.10	10/18/13			808	7/19/24		
	TC-	2-42.20	10/18/13			832	7/19/24		
	TC-	-52.10	10/18/13			843	1/19/24		ENGINEER'S SEAL
	TC-	-52.20	1/15/21			848	7/19/24		
MT-095.40	7/21/23	\sim	\sim			908	10/20/17		
MT-096.11	7/21/23 AS-	5-1-15	1/20/23	2		921	7/19/24		
MT-096.20	7/21/23 PCI	CB-91	7/17/20	$\boldsymbol{\mathcal{A}}$					TE OF OX
MT-097.10	4/19/19 DB	3R-3-11	7/15/11	\langle					
MT-101.60	4/21/23 SBI	R-3-11	7/19/24	3					
	T BF	R-1-11	1/18/13	ス					SCHECKELHOFF
MT-101.70	7/19/24			$\boldsymbol{\mathcal{A}}$					RECURSO
MT-101.75	7/21/2 3 BP-	P-3.1	1/19/24	$\boldsymbol{\mathcal{A}}$					SSIONAL ENG
MT-101-90	7/17/20 BP-	P-5.1	7/15/22	3					
MT-104.10	1/19/24	m	uu						
MT-105.10	1/17/20								

ΜЧ 2.38 TIME /2024 DATE: x22 (in.) 습. eet-

D01

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

D01-0L-FY25

ALLEN AND DEFIANCE COUNTIES

INDEX OF SHEETS:

TITLE SHEET	1
LOCATION MAP	2
GENERAL NOTES	3
MANTENANCEOFTRAFFIC	m ABm
C GENERAL SUMMARY	9, 9A, & 10 🔾
> GUARDRAIL DETAILS	10A-10I
STRUCTURES OVER 20'SPAN	Man Man

NONE

PROJECT DESCRIPTION

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

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY EXCEPT AS NOTED ON SHEETS 4-8, AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.



FEDERAL PROJECT NUMBER

E240(638)

RAILROAD INVOLVEMENT

OVERLAY BRIDGE DECKS ON VARIOUS STRUCTURES THROUGHOUT DISTRICT ONE.

EARTH DISTURBED AREAS

0.0 ACRES 0.0 ACRES N/A (NOI 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.

Christiples a Highes

Christopher A. Hughes, P.E. District 01 Deputy Director

amela Bolatyn Pamela Boratyn

Director, Department of Transportation







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.

THE CONTRACTOR SHOULD BE AWARE OF THE EXISTING BRIDGE LIGHTING FACILITIES. THERE ARE EXISTING LIGHTING CONDUITS, CABLE, AND PULL-BOXES IN THE WORK AREA. THE ORIGINAL CONSTRUCTION PLANS ARE AVAILABLE FOR REFERENCING THE APPROXIMATE LOCATIONS. THE CON-TRACTOR SHALL USE CAUTION WHEN WORKING NEAR THESE FACILITIES.

EXISTING PLANS

EXISTING PLANS MAY BE INSPECTED IN THE ODOT DISTRICT 1 OFFICE IN LIMA.

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.

TEMPORARY SEDIMENT AND EROSION CONTROL

THE FOLLOWING ITEMS HAVE BEEN INCLUDED IN THE GENERAL SUMMARY TO PERFORM THIS ITEM OF WORK:

ITEM 832, EROSION CONTROL = 1000 EACH

REVIEW OF DRAINAGE FACILITIES

PRIOR TO THE START OF WORK AND AGAIN BEFORE FINAL ACCEPTANCE. PERFORM AN INSPECTION WITH REPRESENTATIVES OF THE DEPARTMENT, CONTRACTOR AND LOCALS OF ALL EXISTING DRAINAGE FACILITIES THAT ARE TO REMAIN IN SERVICE WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES IS DETERMINED FROM FIELD **OBSERVATIONS. RECORDS OF THE INSPECTION ARE MAINTAINED BY** THE DEPARTMENT.

CONFIRM ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES ARE MAINTAINED AND LEFT IN A CONDITION COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. THE CONTRACTOR IS RESPONSIBLE TO CORRECT ANY CHANGE IN THE CONDITION RESULTING FROM THEIR OPERATIONS AS DIRECTED AND APPROVED BY THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

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.

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 251 - PARTIAL DEPTH PAVEMENT REPAIR (441)

A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THE ITEM SHALL CONSIST OF RE-PAIRING AREAS EXHIBITING SURFACE DETERIORATION ADJACENT TO THE APPROACH SLABS BEING OVERLAID AND PLACING ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (449), PG64-22. IN ADDITION, THIS ITEM SHALL BE USED TO PROVIDE A SMOOTH TRANSITION INTO THE OVERLAID APPROACH SLABS AS DIRECTED BY THE ENGINEER. FOR PLACEMENT OF ITEM 441, A PG64-22 BINDER IS REQUIRED, AND IT SHALL BE PLACED IN TWO ONE AND HALF INCH LIFT THICKNESS. THE ENGINEER SHALL DETERMINE WHICH ARE TO BE REPAIRED. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, THIS ITEM SHALL BE PERFORMED AFTER THE COMPLETION OF THE ABUTTING APPROACH SLAB OVERLAY WORK.

PAYMENT SHALL BE BASED ON THE ACTUAL NUMBER OF SQUARE YARDS OF SURFACE PAVEMENT REPAIR. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 251, PARTIAL DEPTH PAVEMENT REPAIR (441), 2510 SY

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ITEM 253 - PAVEMENT REPAIR

A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THIS ITEM SHALL CONSIST OF CUT-TING AND REMOVING DETERIORATED PAVEMENT FULL DEPTH ADJACENT TO THE APPROACH SLABS BEING OVERLAID AND PLACING 301 ASPHALT CONCRETE BASE, PG64-22. THE MAXIMUM COMPACTED DEPTH OF ANY ONE LAYER SHALL BE 6 INCHES. THE FULL DEPTH PAVEMENT REPAIRS SHALL HAVE A SURFACE COURSE APPLIED PER THE NOTE AND REQUIREMENTS FOR ITEM 251, PARTIAL DEPTH PAVEMENT REPAIR (441). PAYMENT FOR THE SURFACE COURSE SHALL BE INCLUDED WITH ITEM 251. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, THIS ITEM SHALL BE PERFORMED AFTER THE COMPLETION OF THE ABUTTING APPROACH SLAB OVERLAY WORK.

PAYMENT SHALL BE BASED ON THE ACTUAL NUMBER OF CUBIC YARDS OF PAVEMENT REPAIR. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 253, PAVEMENT REPAIR, 45 CY

PAVEMENT MARKINGS

PAVEMENT MARKINGS MUST BE IN PLACE PRIOR TO OPENING THE ROAD TO TRAFFIC. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER FOURTEEN (14) CALENDAR DAYS IN ADVANCE OF THE NEED TO PLACE THE PAVEMENT MARKINGS. THE PROJECT ENGINEER SHALL CONTACT THE DISTRICT ROADWAY SERVICES ENGINEER (419-999-6857, DERRICK.SCHIERLOH@DOT.OHIO.GOV) TO SCHEDULE PAVEMENT MARKING PLACEMENT PRIOR TO THE OPENING TO TRAFFIC.

ITEM 606 - GUARDRAIL, TYPE 5, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ITEM 606 AND DRAWING GR-1.1 AND GR-2.1, SHEET 10A AND 10B, THIS ITEM REQUIRES STEEL POSTS AND COMPOSITE OR POLYMER ALERNATIVE 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 BLOCKOUTS SHALL BE INCLUDED IN THE UNIT BIDS FOR ITEM 606, GUARDRAIL, TYPE 5, AS PER PLAN

ITEM 606 - BRIDGE TERMINAL ASSEMBLY, TYPE 1, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF DRAWING GR-3.1, SHEET 10C, 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, BRIDGE TERMINAL ASSEMBLY, TYPE 1, AS PER PLAN.

ITEM 606 - BRIDGE TERMINAL ASSEMBLY, TYPE 3, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF DRAWING GR-3.3, SHEET 10D, 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, BRIDGE TERMINAL ASSEMBLY, TYPE 3, AS PER PLAN.

IN ADDITION TO THE REQUIREMENTS OF DRAWING GR-4.2. SHEET 10E. THIS ITEM REQUIRES STEEL POSTS AND COMPOSITE OR POLYMER ALERNATIVE 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 BLOCKOUTS SHALL BE INCLUDED IN THE UNIT BIDS FOR ITEM 606, ANCHOR ASSEMBLY, AS PER PLAN



ITEM 606 - ANCHOR ASSEMBLY, TYPE T, AS PER PLAN

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	-								
ASON DICKMAN	TRANSPORT MGR1	(419) 999-6715	-								
ANDREW WITA	TRANSPORT MGR2	(419) 999-6712	-								
	DEFIANCE	COUNTY									
CONTACT	TITLE	OFFICE NUMBER	CELL NUMBER								
ASON HOSCHAK	DEPARTMENT MANAGER	(419) 999-6711	-								
JEFFERY HOLTSBERRY	TRANSPORT MGR2	(419) 999-6728	-								

ES NOT ENERAL **()**





WORK ZONE PAVEMENT MA	VEMENT MARKING ARKING SHALL BE COMPLETE AND IN	ALL WORK AND TRAFFIC (ACCORDANCE WITH C&M PORTIONS OF THE SPECIF
PLACE ON ALL NEW PAVEMI	ENT PRIOR TO EXPOSING IT TO TRAFFIC.	MANUAL OF UNIFORM TI
THE FOLLOWING ESTIMATED	D QUANTITY FOR THIS ITEM HAS BEEN	FOR ALL LABOR, EQUIPM
PROVIDED FOR USE AS DIRE	CTED BY THE ENGINEER.	INCLUDED IN THE LUMP S
		MAINTAINING TRAFFIC, U
ITEM 614 - WORK ZONE CEN	NTER LINE, CLASS II = 0.81 MILE	PLAN.
ITEM 614, MAINTAINING TI	RAFFIC (LANES OPEN DURING HOLIDAYS	DUST CONTROL
OR SPECIAL EVENTS)		THE CONTRACTOR SHALL
NO WORK SHALL BE PERFOR	RMED ON US-30 AND ALL EXISTING LANES	CONTROL AS DIRECTED B
SHALL BE OPEN TO TRAFFIC	DURING THE FOLLOWING DESIGNATED	ESTIMATED QUANTITIES H
HOLIDAYS OR SPECIAL EVEN	ITS:	CONTROL PURPOSES:
NEW YEAR'S (OBSERVED)	GENERAL/REGULAR ELECTION DAY (NOV)	TTEIVI 616, VVATER = 2 IVIG
TOTAL SOLAR ECLIPSE	THANKSGIVING	
(4/8/24)		IIEM 614, PORIABLE CHA
MENAORIAL DAV	CHRISTMAS (OBSERVED)	PER PLAN
		THE CONTRACTOR SHALL
FOURTH OF JULY		REMOVE, WHEN NO LON
(OBSERVED)		SIGN. THE SIGN SHALL BE
		APPROVED PCMS UNITS A
LABOR DAY		MATERIALS MANAGEMEN
		CLASS A AND B UNITS WI
THE PERIOD OF TIME THAT	THE LANES ARE TO BE OPEN DEPENDS ON	800 FEET AND 650 FEET, I
THE DAY OF THE WEEK ON V	VHICH THE HOLIDAY OK SPECIAL EVENT	FACH SIGN SHALL BE TRA
THIS PERIOD.	ILDOLL SHALL DE OSED TO DETENMINE	A FUNCTIONAL DIMMING
		DARKNESS, AND A TAMPE
DAY OF HOLIDAY	TIME ALL LANES MUST	EACH SIGN SHALL BE PRO
<u>OR SPECAL EVENT</u>	<u>BE OPEN TO TRAFFIC</u>	AND OPERATION INSTRUC
SUNDAY	12:00N FRIDAY THROUGH 6:00 AM	TO OPERATE AND TROUB
	MONDAY	ALSO BE CAPABLE OF BEII
		SERVICE DROP FROM A LO
MONDAY	12:00N FRIDAY THROUGH 6:00 AM TUESDAY	SHALL BE DELINEATED IN
		THE PORTABLE PCMS LOC
MONDAY	12:00N MONDAY THROUGH 6:00AM	LOCATIONS ARE SHOWN
(TOTAL SOLAR ECLIPSE)	WEDNESDAY	PLACEMENT, OPERATION,
		THE SIGNS BY THE CONTR
TUESDAY	12:00N MONDAY THROUGH 6:00 AM	ENGINEER. THE PCMS SH
	WEDNESDAY	
ΤΗΕςΠΛΥ		DCMS TO IMPROVE VISIBI
(GEN./REG. FIFCTION)	WEDNESDAY	CONDITIONS. WHEN NOT
(01////120/11/0///		OFF. ADDITIONALLY, WHE
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM THURSDAY	OF TIME, THE PCMS SHAL
		THE ENGINEER SHALL BE
THURSDAY	12:00N WEDNESDAY THROUGH 6:00 AM	AND SHALL BE PROVIDED
	FRIDAY	OPERATION INSTRUCTION
THUKSDAY (THANKSGIVING ONLY)	6:00 AIVI WEDINESDAY THROUGH 6:00 AM MONDAY	WESSAGES, IF NECESSARY
		ALL MESSAGES TO BE DIS
FRIDAY	12:UUN THURSDAY THROUGH 6:00 AM	PROVIDED BY THE ENGIN
	WONDAY	PROGRAMMED MESSAGE
ς <i>λτι φ</i> ηλν	12·ΛΛΝ ΕΒΙΠΑΥ ΤΗΒΟΙ ΙΩΗ ΕΥΛΛ ΑΝΑ	ALTHE PROJECT PRECONS
JAIUNDAI	12.00ΝΤΝΙΖΑΓΤΓΙΝΟΟΘΠ 0.00 ΑΙΝΙ ΜΟΝΠΑΥ	ΣΠΑLL ΠΑΥΕ Ι ΠΕ CAPABIL
		RFIOST AS A RESILLT OF L
SHOULD THE CONTRACTOR	FAIL TO MEET ANY OF THESE	COMPLITER THE SIGN I FI
	RACTOR SHALL BE ASSESSED A	CHANGED IN THE FIELD. T

DISINCENTIVE PER THE LANE VALUE CONTRACT (PN1 127).

D01

ROL DEVICES SHALL BE IN AND OTHER APPLICABLE DNS, AS WELL AS THE OHIO C CONTROL DEVICES. PAYMENT ND MATERIALS SHALL BE ONTRACT PRICE FOR ITEM 614, S SEPARATELY ITEMIZED IN THE

ISH AND APPLY WATER FOR DUST ENGINEER. THE FOLLOWING BEEN INCLUDED FOR DUST

ABLE MESSAGE SIGNS, AS

ISH, INSTALL, MAINTAIN AND EEDED, A CHANGEABLE MESSAGE TYPE SHOWN ON A LIST OF BLE ON THE OFFICE OF B PAGE. THE LIST CONTAINS NIMUM LEGIBILITY DISTANCES OF CTIVELY.

MOUNTED AND EQUIPPED WITH HANISM, TO DIM THE SIGN DURING D VANDAL PROOF ENCLOSURE. WITH APPROPRIATE TRAINING S TO ENABLE ON-SITE PERSONNEL DOT THE UNIT. THE SIGN SHALL WERED BY AN ELECTRICAL JTILITY COMPANY. THE PCMS RDANCE WITH C&MS 614.03.

IS AND WORK LIMITS FOR THOSE EETS 6-8 OF THE PLAN. NTENANCE AND ALL ACTIVATION OF R SHALL BE AS DIRECTED BY THE E LOCATED IN A HIGHLY VISIBLE M TRAFFIC. THE CONTRACTOR HE ENGINEER, RELOCATE THE DR ACCOMMODATE CHANGED E, THE PCMS SHALL BE TURNED T IN USE FOR EXTENDED PERIODS URNED AWAY FROM ALL TRAFFIC.

DED ACCESS TO EACH SIGN UNIT APPROPRIATE TRAINING AND ENABLE ODOT PERSONNEL TO THE UNIT, AND TO REVISE SIGN

O ON THE SIGN WILL BE LIST OF ALL REQUIRED PRE-L BE GIVEN TO THE CONTRACTOR TION CONFERENCE. THE SIGN D STORE UP TO 99 MESSAGES. OGRAMMED DISPLAYS SHALL NOT R FAILURES TO THE ON-BOARD SHALL BE CAPABLE OF BEING -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.

TIME NEEDED TO COMPLETE THE WORK.

THE PCMS SHALL CONTAIN AN A	ACCURATE CLOCK AND		IF THE WO	RK ZONE MEET	S THESE MINIMUN	1 CRITERIA, IT	SHALL BE
PROGRAMMING LOGIC WHICH	WILL ALLOW THE SIGN	ТО	ANALYZED	FURTHER USIN	IG TABLE 1 BELOW	TO DETERMIN	IE IF AND
BE ACTIVATED, DEACTIVATED OF	R MESSAGES CHANGED)	WHEN IT C	QUALIFIES FOR A	A SPEED LIMIT RED	UCTION. DEPI	ENDING ON
AUTOMATICALLY AT DIFFERENT	TIMES OF THE DAY FOF	?	THE ORIGI	NAL POSTED SP	PEED LIMIT, THE TY	PE OF TEMPO	RARY TRAFFIC
DIFFERENT DAYS OF THE WEEK.			CONTROL	USED, AND WH	IETHER OR NOT WO	ORKERS ARE P	RESENT, A
			WARRANT	ED WZSZ WILL	VARYIN THE APPRO	OVED SPEED L	IMIT TO BE
ALLOW REMOTE SIGN ACTIVATIO	ON, MESSAGE CHANGE	ES, MESSAGE	POSTED O	VER TIME.			
ADDITIONS AND REVISIONS TO	TIME OF DAY PROGRAM	MS. THE					
SYSTEM SHALL ALSO PERMIT VE	RIFICATION OF CURREI	NT AND	C&MS ITEI	M 614, PARAGR	APH 614.02(B), INI	DICATES THAT	TWO
PROGRAMMED MESSAGES. TH	E PCMS UNIT SHALL BE		DIRECTION	IS OF A DIVIDE	D HIGHWAY ARE CO	DNSIDERED SE	PARATE
MAINTAINED IN GOOD WORKIN	G ORDER BY THE CONT	TRACTOR	HIGHWAY	SECTIONS. THE	REFORE, IF THE WO	DRK ON A MU	LTI-LANE
IN ACCORDANCE WITH THE PRC	VISIONS OF C&MS 614	4.07.	DIVIDED H	IGHWAY IS LIM	ITED TO ONLY ONE	DIRECTION, A	A SPEED LIMIT
THE CONTRACTOR SHALL, PRIOF	? TO ACTIVATING THE L	JNIT,	REDUCTIO	N IN THE DIREC	CTION OF THE WOR	K DOES NOT	
MAKE ARRANGEMENTS, WITH A	AN AUTHORIZED SERVI	CE	AUTOMAT	ICALLY CONSTIT	TUTE A SPEED LIMI	T REDUCTION	IN THE
AGENT FOR THE PCMS, TO ASSL	IRE PROMPT SERVICE II	N THE	OPPOSITE	DIRECTION. EA	CH DIRECTION SHA	LL BE ANALYZ	ΈD
EVENT OF FAILURE. ANY FAILUR	E SHALL NOT RESULT IN	N THE SIGN	INDEPEND	ENTLY FROM E	ACH OTHER.		
BEING OUT OF SERVICE FOR MC	RE THAN 12 HOURS, II	NCLUDING					
WEEKENDS. FAILURE TO COMPL	Y MAY RESULT IN AN O	RDER	ALL WZSZS	S FLUCTUATE BE	ETWEEN TWO APPF	ROVED REDUC	CED SPEED
TO STOP WORK AND OPEN ALL	TRAFFIC LANES AND/O	R IN THE	LIMITS OR	BETWEEN AN A	APPROVED REDUCE	ED SPEED LIM	IT AND THE
DEPARTMENT TAKING APPROPR	IATE ACTION TO SAFEL	Y CONTROL	ORIGINAL	POSTED SPEED	LIMIT. ONLY ONE C	OF TWO SIGNI	NG STRATEGIES
TRAFFIC. THE ENTIRE COST TO C	ONTROL TRAFFIC, ACC	RUED BY	SHALL BE U	JSED TO IMPLE	MENT A WZSZ.		
THE DEPARTMENT DUE TO THE	CONTRACTOR'S NONCO	OMPLIANCE,					
WILL BE DEDUCTED FROM MON	IEYS DUE, OR TO BECO	ME DUE	WZSZS USI	ING DSL SIGN A	SSEMBLIES SHALL I	BE IN ACCORD	DANCE WITH
THE CONTRACTOR ON HIS CONT	TRACT.		THIS NOTE	, APPROVED LIS	ST, SUPPLEMENTAL	. SPECIFICATIC	ONS (SS) 808
			AND 908, /	AND TRAFFIC S	CD MT-104.10.		
THE CONTRACTOR SHALL BE RES	SPONSIBLE FOR 24-HOU	UR-PER-					
DAY OPERATION AND MAINTEN	ANCE OF THESE SIGNS	ON THE	ONLY ONE	WARRANTED S	SPEED LIMIT APPLIE	S AT ANY ONE	E TIME; SPEED
PROJECT FOR THE DURATION O	THE PHASES WHEN T	HE PLAN	LIMIT RED	UCTIONS ARE N	NOT CUMULATIVE.	WZSZS SHALL	NOT BE USED
REQUIRES THEIR USE.			FOR MOVI	NG/MOBILE AC	CTIVITIES, AS DEFIN	ED IN OMUTC	D PART 6.
PAVMENT FOR THE ABOVE DESC	RIBEN ITEM SHALL RE	ΛΤ ΤΗ Γ	WHEN LOC			K 70NE SDEEL	
CONTRACT LINIT PRICE PAYMEN	NT SHΔIT INCLUDE ΔΙΤ	IAROR	ΔΙ Μ/ΔΥς ΙΙ	SE THE ORIGINA	ΔΙ ΡΒΕΓΟΝΙΣΤΒΙΙΟΙ	TION POSTED	SPEED LIMIT
MATERIALS FOLLIPMENT FLIFL	S TUBRICATING OUS S	OFTWARF		SE A PRIOR OR	CLIRRENT WORK 7	ONE SPEED I II	MIT AS A LOOK
HARDWARE AND INCIDENTALS	TO PERFORM THE ARO	VF	LIP VALLIF	IN THE TABLE I	POSITIVE PROTECTI	ON IS GENER	4//Y
DESCRIBED WORK.			REGARDE) AS PORTABLE	BARRIER OR OTHE	R RIGID BARR	IFR IN USF
			ALONG TH	F WORK ARFA	WITHIN THE SUBIE	CT WARRANT	FD WORK
ITEM 614. PORTABLE CHANGEA	BLE MESSAGE SIGN. AS	SPER	ZONE CON	DITION. WITH	OUT POSITIVE PROT	ECTION IS GE	NERALLY
PLAN (ASSUMING 2 PCM	S SIGN(S) FOR 6 MONT	H(S) = 12 SNMT	REGARDEL	DAS USING DRU	JMS. CONES. SHAD	OW VEHICLE.	ETC., ALONG
,			THE WORK	AREA WITHIN	THE SUBJECT WAR	RANTED WOF	, RK ZÓNE
ITEM 614, WORK ZONE SPEED I	IMIT SIGN		CONDITIO	N. WORKERS AI	RE CONSIDERED AS	BEING PRESE	NT WHEN ON-
			SITE, WOR	KING WITHIN T	THE SUBJECT WARR	ANTED WORK	<i>XZONE</i>
THE FOLLOWING WORK ZONE S	PEED ZONE (WZSZ) SPE	EED LIMIT	CONDITIO	N. WHEN THE V	NORK ZONE CONDI	TION REDUCI	NG THE
REVISIONS(S) HAVE BEEN APPRO	OVED FOR USE ON THIS	S PROJECT	EXISTING F		Y OF THE TRAVEL LA	ANES OR SHOU	ULDERS IS
WHEN WORK ZONE CONDITION	S AND FACTORS ARE N	1ET AS	REMOVED	, THESPEED LIN	AIT DISPLAYED SHA	LL RETURN TO) THE
DESCRIBED BELOW:			ORIGINAL	POSTED SPEED	LIMIT.		
WZSZ REVISION NUWBER(S) CO	UNTY-ROUTE-SECTION	(S) DIRECTION(S)	IABLE I: V	VARKANTED VVO	URK ZUNE SPEED LI (55 MDU OD CDEA)	IVIIIS (IVIPH) I TED) MILIITI I /	-UR WURK ZUNE ANE LIGUWAVS
14/7-	NII_30_9 271 /9 31R	вотн	0	N IIIGII-SFLLD	(JJ WIFTI ON GALA	ILN) WOLTI-LA	ANL MIGHVAIS
VVZ-	ALL-30-9.27L/9.31N	вотп	OPICINAL				
DOTENTIAL WIZSZ LOCATIONS SH			POSTED	PRO	TECTION	PRO	TECTION
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THREE HOURS IS REOUIRED TO	BALANCE THE ADDITIO	NAL EXPOSURF	FSTIM	ATING 4 DSI SI	GN ASSEMBLIES FC	R 3 MONTHS	
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DESIGN AGENCY



D01-OL-FY25 MODEL: Sheet_SurvFt PAPERSIZI

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					SHEE	T NUM.						PA	RT.		ITEM	GRAND		
				3	4		12					01/STR/47	02/NHS/47		EXT	TOTAL	UNII	
							\sim					rtor	misn	201	11000	JS		CLEARING AND GRUBBING
							975	\mathbf{I}				325	650	202	38000	975	FT	GUARDRAIL REMOVED
											\sim	fran	~8~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	202~~	47000	1222	EACH	BRIDGE FERMINAL ASSEMBLY REMOVED
							975				7	325	650	606	13001	975	FT	GUARDRAIL, TYPE 5. AS PER PLAN
							2				<u> </u>	2		606	26501	2	FACH	ANCHOR ASSEMBLY, TYPE T, AS PER PLAN
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							141						141	516	14600	141	FT	STRUCTURAL JOINT OR JOINT SEALER, MISC.: USIN
							141						141	519	11101	141	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN
							101						101	843	50000	101	SF	PATCHING CONCRETE STRUCTURES WITH TROWEL
																		STRUCTURE RE
							LS						LS	202	11200	LS		PORTIONS OF STRUCTURE REMOVED
							978						978	202	23500	978	SY	WEARING COURSE REMOVED (T=1.25")
							63						63	516	14600	63	FT	STRUCTURAL JOINT OR JOINT SEALER, MISC.: USIN
uť							541.5						541.5	517	72750	541.5	FT	RAILING (THRIE BEAM RETROFIT)
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ст О	/ 						35						35	843	50000	35	SF	PATCHING CONCRETE STRUCTURES WITH TROWEL
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ABLE MORTAR		JER,
PAIR (ALL-30-7.90, SFN: 0200247)		GEN
G DOW CORNING 902		
ABLE MORTAR ODEMOLITION (T=2.25") I (T=1")		
HICKNESS), MATERIAL ONLY	ξ	
PAIR (ALL-30-8.81, SFN: 0200301)	ξ	
G DOW CORNING 902		
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ABLE MORTAR ODEMOLITION (T=2.25")		DESIGN AGENCY
HICKNESS), MATERIAL ONLY		
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														STRUCTURE REPAIR (ALL-30-9.27L, SFN: 0200336)	
					424				424	202	23500	424	SY	WEARING COURSE REMOVED (T=1.75")	
					12				12	512	10050	12	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	
									150	517	75600	150	FT	DEEP BEAM BRIDGE RETROFIT RAILING	
					130				130	SPECIAL	51822300	130	FT	STEEL DRIP STRIP	(11)
															{
					154				154	519	11101	154	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	
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					424				424	848	10100	424	SY SY	LATEX MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION (T=2.75")	<del>\</del>
	 				424				424 22 E	848	20000	424		SURFACE PREPARATION USING HYDRODEMOLITION (1=1")	
					52.5				52.5	040	50100	52.5	Cr	LATEN WODIFIED CONCRETE OVERLAT (VARIABLE THICKNESS), WATERIAL UNLT	<del>} }</del>
					64				64	848	50000	64	SY	HAND CHIPPING	
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					424				424	202	23500	424	SY	WEARING COURSE REMOVED (T=1.75")	Ç
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														STRUCTURE REPAIR (DEF-249-0.094, SFN: 2002280)	5
					654			654		202	23500	654	SY	WEARING COURSE REMOVED (T=1.25")	63
					400			400		202	38500	400	FT	BRIDGE RAILING REMOVED	<u> </u>
					5,412			5,412		509	10000	5,412	LB	EPOXY COATED STEEL REINFORCEMENT	
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	 					uu	hun	24		511	34448			CLASS QCZ CUNCRETE, BRIDGE DECK (PARAPET)	
					40 26 5			40 26 5		510	14000	26 5		DATCHING CONCRETE STRUCTURE AS DER DIAN	
	 				20.5			20.5		515	11101	20.5	JI	FAICHING CONCRETE STRUCTURE, AS FER FEAN	
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1190					654			654		848	10100	654	SY	LATEX MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION (T=2.25")	
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ly/Sh					40.9			40.9		848	30100	40.9	CY	LATEX MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY	$\langle \cdot \rangle$
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New York	-		_					32.5						32.5	848	30100	32.5	CY	LATEX MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY		3
Image: state in the s	-							64						64	848	50000	64	SY	HAND CHIPPING	$\left\{ \begin{array}{c} \xi \\ \xi \end{array} \right\}$	3
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	-							$\frac{1}{20}$	$\cdots$	$\sim$	$\sim$	$\sim$	~ <del>1,120</del> 24		510	34448		EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN		
Total         Total <td< td=""><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td>48</td><td>h</td><td>·····</td><td></td><td>$\dots$</td><td>48</td><td></td><td>516</td><td>14600</td><td>48</td><td>FT</td><td>STRUCTURAL JOINT OR JOINT SEALER, MISC.: USING DOW CORNING 902</td><td>(11)</td><td></td></td<>	-							48	h	·····		$\dots$	48		516	14600	48	FT	STRUCTURAL JOINT OR JOINT SEALER, MISC.: USING DOW CORNING 902	(11)	
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<u> </u>		<u> </u>	56	614	11110	<u> </u>	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FO
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		۷	0.81	614	21400	0.81	MILE	WORK ZONE CENTER LINE CLASS II
			5.14	614	22326	5.14	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 873
		$\sim$	$\sim$			$( \cdots )$		
		<pre></pre>	5,040	614	24122	5,040	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 873
				616	10000	<u>}</u> 2	MGAL	WATER
		50	100	617	10100	150	СҮ	COMPACTED AGGREGATE
			11,820	618	40100	11,820	FT	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)
			2,400	622	41100	2,400	FI	PORTABLE BARKIER, UNANCHORED
			17	<u> </u>	18700	17		DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY
			L	000	10/00	12		
		LS	LS	614	11000	LS		MAINTAINING TRAFFIC
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DESCRIPTION	SEE SHEET NO.	
NTENANCE OF TRAFFIC		
8) DC64-22 (1 1/2")		
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**POSTS:** Post posts may be

Use round woo round posts s and not more taper.

Fabricated w if required, 1 set.

Steel posts o Use the same project unles permitted by

All posts are the Contract or may be dr

WELDED BEAM for Item 606, are as shown comply with A MPa yield poin

Sec. 7.2

Sec. 12

Sec. 13

ALTERNATE PO. NCHRP 350 cri **Management's** alternate whe instructions ( List.

**BLOCKOUTS:** B Wood Blockou CMS 710.14. B may be used list is mainte

**WASHERS:** Inst washers on th

DELINEATION:

MISCELLANEOU

Sizə Rolled W6> Rolled W6x Welded 6x Welded 6x

Beam r	$\wedge \wedge \top \top \square$	7			
	ail meeting A	. <b>.</b> ASHTO M 180	) Турө II Cla	155	
ed in C 5 may 1	CMS 606. be constructe	ed of wood	or steel. N	Vood	
round	or 6"x8" squa	are-sawed.	• · · · · ·		
oa pos shall b than :	ıs on runs of e 8″±1 in diam 3″ larger at 1	single-sid eter at the he butt wi	ea rail. The e top th a uniform	1	
ood po ated a trim th	sts with squc s per CMS 710 ne tops of po	are ends. H 14. Bore L sts after	Posts shall i bolt holes a the posts ai	be nd, re	
are to e type ss othe the E	be W6x9 or M of post thro erwise specif. ngineer.	V6x8.5 galve ughout the ied in the p	anized steel length of t plans or	the	
e 6'-0" Docum iven to	long unless s nent. Posts i pgrade.	pecified of may be set	therwise in in drilled he	oles	
<b>POSTS:</b> , Guard here. 1STM A nt] wit	Welded beam rail, provided Welding of † 769, Class 1, h the followi	guardrail p d the web c he web to using Grad ing excepti	oosts may be and flange si the flanges e 36 steel [ ons:	e used zes must 250	ET NENTS
Test r each l	reports of te ot shall acco	ensile prope ompany each	erties for 5 shipment.		SHE 5A
Beams by wei in Iter	that have im Iding shall no m 606.	perfection t be accep	s repaired ted for use		SERT CON 5 &
Randor Depart the pr design	n samples sha tment from m oject site, c ated by the d	all be teste aterials de or other loc Laboratory	ed by the livered to cations •		LAN IN RAIL TYPE
STS: E iteria, Appro en inst and wit	ngineered gud and listed or ved List are alled accordi hin the limite	nrdrail post the <b>Offic</b> permitted ng to the N ations show	ts having me t <b>e of Materi</b> as an equal Manufacturer In on the Ap _l	t <b>als</b> oroved	GUA
Blockou ts are ore bo in lieu vined by	t dimensions to be pressu It holes. Ap of the wood the <b>Office</b>	are depend re treated proved alte blockouts <b>of Roadwa</b> g	lent on post l as specifie ernate block shown. The o <b>y Engineering</b>	used. ed in couts approved <b>1</b> •	
all app ne nut	propriate size side of bolts	ed standard s installed	d galvanized on wood pos	steel ts.	
ie nai	rrier reflecte	ors, see CN	15 626.		
For ba. <b>S:</b> For	Sinor guarar				
For ba S: For	EL BEAM POST.	S (English)			
For ba S: For STEL	EL BEAM POST Beam depth	S (English) Flange width	Flange	Web	DESIGN AGENCY
For ba S: For STEL	EL BEAM POST Beam depth 5.8″	S (English) Flange width 3.94″	Flange thickness 0.193″	Web thickness 0.170″	DESIGN AGENCY
For ba S: For STEL	EL BEAM POST.         Beam         depth         5.8"         5.9"         6.0"	S (English) Flange width 3.94″ 3.94″	Flange thickness 0.193″ 0.215″	<b>Web</b> <b>thickness</b> 0.170″ 0.170″	DESIGN AGENCY

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# NOTES

GENERAL: For additional details, see SCD GR-1.1.

**APPLICATION:** Use Type 1 Bridge Terminal Assembly to connect guardrail runs to bridges having deflector Parapet Type Bridge Railing (see **Structural Engineering's SCD BR-1).** It may also be used to connect guardrail runs to the approach ends of Concrete Barrier (see **SCD RM-4.6).** 

On undivided, bi-directional roadways, Type 1's may be used to anchor guardrail runs to the trailing end of Deflector Parapets or Concrete Barrier installations.

**THRIE BEAM TRANSITION:** Symmetrical W-Beam to Thrie Beam transition panel shall be 10 gauge.

**POSTS:** Posts may be set in drilled holes or driven to grade. See **SCD GR-1.1** for additional Post embedment details.

WOOD POSTS – Use square sawed pressure treated wood as per CMS 710.14 and fabricate with square ends. Bore bolt holes and trim the tops of posts, if required, after the posts are set.

STEEL POSTS - are allowed as an alternate. Use W8x24 for 10"x10" wood posts and use W6x25 for 8"x8" posts. Use same post material throughout assembly.

BLOCKOUTS: Use wood blockouts only, steel or plastic blockouts are not permitted. Use notched blockouts with steel posts.

**CURB:** Provide a Type 4A or 4C concrete curb minimum of 20', or longer as shown on plans, including a 10' taper (from curb height to flush). Front of curb to be flush with face of guardrail.

**FLARED GUARDRAIL:** Begin Standard Guardrail Flares as shown on **SCD GR-5.1** preferably at or beyond Post No. 7; however, the flare may begin at Post No. 5.

**PAYMENT: Item 606 – Bridge Terminal Assembly, Type 1, Each,** includes the cost of extra components, in excess of normal guardrail, for additional and different size of posts and blockouts, nested Thrie-Beam, transition and connector sections, Bearing Plate, bolts, washers, nuts, and other hardware.

The curb is required in this design, and is paid separately under **Item 609 – Curb, Type 4A (or 4C), per Foot,** for the curb and taper sections, including materials, forming and labor needed to construct as shown.

PLAN INSERT SHEET GUARDRAIL DETAILS

ESIGN AGENCY









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REVIEWER XXX MM-DD

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#### SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWING(S):

DBR-3-11 DATED 7/15/11 *PSB-91 DATED 7/17/20* SBR-3-20 DATED 7/19/24 *TBR-1-11 DATED 1/18/13* 

**REFER TO THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS:** 

843 DATED 10/18/19 848 DATED 1/15/21

#### **DECK PROTECTION METHOD**

LATEX MODIFIED CONCRETE OVERLAY

#### EXISTING BRIDGE PLANS

EXISTING PLANS ARE AVAILABLE AND MAY BE INPECTED IN THE ODOT DISTRICT 1 OFFICE IN LIMA.

#### **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.

#### FINISHING EQUIPMENT SUPPORT PLAN

THE CONTRACTOR IS HEREBY ADVISED THAT HE/SHE SHALL NOT BE PERMITTED TO USE THE RETROFIT 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.

#### ITEM 512 - SEALING OF CONCRETE SURFACES (NON-EPOXY)

THE CONTRACTOR SEAL ALL LOCATIONS DESCRIBED IN THE TABLE BELOW AND SHOWN ON THE TRANSVERSE SECTION ON SHEET 13.

STRUCTURE	SEALING LOCATIONS
ALL-30-1.130	SUPERSTRUCTURE

PAYMENT FOR SEALING THE LOCATIONS ABOVE SHALL BE AT THE UNIT PRICE BID PER SY FOR ITEM 512 - SEALING OF CONCRETE SURFACES (NON-EPOXY) WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MAT-ERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

#### **DEMOLITION DEBRIS**

34x22 (in.)

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DO

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 IMMEDIATELY REMOVED.

#### **ITEM 848 - SURFACE PREPARATION USING HYDRODEMOLITION,** AS PER PLAN

THIS ITEM SHALL FOLLOW SUPPLEMENTAL SPECIFICATION 848 EXCEPT THAT THE TOP SURFACE OF THE CONCRETE BRIDGE DECK SHALL BE COMPLETELY REMOVED TO A DEPTH "D" OF 1.25".

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

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

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

A LIST OF ESTIMATED LOCATIONS AND ESTIMATED QUANTITIES FOR PATCHING ARE LISTED IN THE STRCUTURE PLAN SHEETS AND ESTIMATED QUANTITIES.

PAYMENT FOR PATCHING AS DESCRIBED ABOVE SHALL BE AT THE UNIT PRICE BID PER SF FOR ITEM 519 - PATCHING CONCRETE STRUCTURE, AS PER PLAN WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

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

A QUANTITY IS INCLUDED IN THE ESTIMATED QUANTITIES TO REPAIR ANY DETERIORATED AREAS ON THE LEFT AND RIGHT PARAPETS AND SAFETY CURBS, AND THE DECK EDGES WITH ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWEL-ABLE MORTAR WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.

#### ITEM 510 - DOWL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN

IN ADDITION TO THE PROVISIONS OF ITEM 510, USE EITHER OF THE BELOW APPROVED ADHESIVE ANCHORING SYSTEMS PROVIDED OR AN APPROVED EQUIVALENT. SUSBSTITUTE ADHESIVE ANCHORING SYSTEMS SHALL MEET THE REQUIREMENTS OF ICCES AC308 TABLE 3.8.

- DEWALT - POWERS FASTERNERS - PURE110+ EPOXY ADHESIVE ANCHOR SYSTEM AND POST-INSTALLED REINFORCING BAR CONNECTION SYSTEM IN CRACKED AND UNCRACKED CONCRETE.

- HILTI INC. - HILTI HIT-HY 200 ADHESIVE ANCHORS AND POST-INSTALLED REINFORCING BAR CONNECTIONS IN CONCRETE.

#### 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 CLEARENCES AND BAR SPACINGS. REPAIR ALL DAMAGE TO THE EPOXY COATING, AS A RESULT OF THIS WORK, ACCORDING TO C&MS 709.00

#### ITEM 516 - STRUCTURAL JOINT OR JOINT SEALER. MISC.: USING DOWSIL 902 (RCS)

ALL NECESSARY LABOR. MATERIALS AND EQUIPMENT TO CLEAN AND SEAL THE EXISTING SLIDING DECK JOINTS.

THE SEALANT SHALL BE DOWSIL 902 RCS OR APPROVED EQUIVALENT.

JOINTS SHALL BE THOROUGHLY CLEANED BY ABRASIVE BLASTING AND/OR POWER TOOLS AND WITH A SUFFICIENT AMOUNT OF COMPRESSED AIR TO REMOVE ANY DIRT OR DELETERIOUS MATTER WHEN THE SURFACES ARE THOROUGHLY CLEAN AND DRY. JUST PRIOR TO PLACING THE JOINT SEALER, COMPRESSED AIR HAVING A PRESSURE OF AT LEAST 90 P.S.I. SHALL BE USED TO BLOW OUT THE JOINT AND REMOVE ALL TRACES OF DUST.

AFTER CLEANING AND DRYING. THE JOINT SHALL BE PRIMED WITH CARBOLINE CARBOGUARD 635 OR EQUIVALENT. DOW CORNING® 902 RCS JOINT SEALANT INSTALLATION GUIDELINES (FORM NO. 62-272). AFTER PLACEMENT OF THE CARBOLINE CARBOGUARD 635 OR EQUIVALENT WAIT A MINIMUM OF 1 HOUR BEFORE APPLYING JOINT SEALANT OR ALLOWING TRAFFIC TO PASS OVER THE PRIMED JOINT. A BOND-BREAKER MATERIAL SHALL BE APPLIED TO THE BOTTOM OF THE JOINT.

THE SILICONE SEALANT MATERIALS SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS. EXCEPT AS MODIFIED BY THESE NOTES. THE SEALANT SHALL BE INSTALLED WHEN THE AMBIENT TEMPERATURE IS 60 DEGREES F OR HIGHER. TRAFFIC SHALL NOT BE ALLOWED ON THE JOINT FOR ONE HOUR AFTER THE APPLICATION OF THE SEALANT.

SEE BRIDGE PLAN SHEET 9 (PLAN SHEET 19) FOR ADDITIONAL DETAILS.

PAYMENT FOR ALL EQUIPMENT. MATERIALS, AND LABOR REQUIRED TO PERFORM THE WORK OUTLINED ABOVE AND AS SHOWN ON BRIDGE PLAN SHEET 9 (PLAN SHEET 19), INCLUDING THE PRIMER (CARBOLINE CARBOGUARD 635) FOR THE JOINT, SHALL BE INCLUDED IN THE UNIT PRICE BID PER FT FOR ITEM 516 - STRUCTURAL JOINT OR JOINT SEAL, MISC.: USING DOWSIL 902 RCS, UNLESS SEPARATELY ITEMIZED IN THE PLANS.



			I	ESTIMATED QUANTITIES (CARRIED TO GENERAL SUMMARY)											ESTIMATED QUANTITIES (CARRIED TO G
ΓΕΜ	EXTENSION	TOTAL	UNIT	DESCRIPTION	APP. SLAB	ABUT.	SUPER.	GEN.	PIER	SHEET #		1			ALL-30-9.268L
				ALL-30-1.130							202	23500	424	SY	WEARING COURSE REMOVED (T=1.7
512	73500	1316	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN (AND APP. SLABS)	257		1059				409	30000	80	FT	SAWING AND SEALING ASPHALT CONCRETE PAV
12	10050	6	SY	SEALING OF CONCRETE SURFACES (NONEPOXY)					6		512	10050	12	SY	SEALING OF CONCRETE SURFACES (NON
.6	14600	104	FT	STRUCTURAL JOINT OR JOINT SEALER, MISC.: USING DOW CORNING 902		104				2 (11/19)	517	75600	150	FT	DEEP BEAM BRIDGE RETROFIT RAILI
)	11101	141	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN		78		23	40	2 (11/19)	SPECIAL	51822300	130	FT	STEEL DRIP STRIP
3	50000	141	SF	PATCHNG CONCRETE STRUCTURES WITH TROWELABLE MORTAR		78		23	40	2 (11/19)	519	11101	154	SF	PATCHING CONCRETE STRUCTURE, AS PE
				ALL-30-7.897							843	50000	154	SF	PATCHNG CONCRETE STRUCTURES WITH TROWE
)2	11200	LS		PORTIONS OF STRUCTURE REMOVED			LS				848	10100	424	SY	LATEX MODIFIED CONCRETE OVERLAY USING HYDROD
)2	23500	978	SY	WEARING COURSE REMOVED (T=1.25")	178		800				848	20000	424	SY	SURFACE PREPARATION USING HYDRODEMOLI
)2	38000	325	FT	GUARDRAIL REMOVED #				325			848	30100	32.5	CY	LATEX MODIFIED CONCRETE OVERLAY (VARIABLE THICK
2	47000	4	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED #				4			848	50000	64	SY	HAND CHIPPING
<u>.</u>	14600	63	FT	STRUCTURAL JOINT OR JOINT SEALER MISC. : USING DOW CORNING 902		63				2 (11/19)	848	50100	LS		TEST SLAB
	72750	541.5	FT	RAILING (THRIE BEAM RETROFIT)			541.5				848	50200	1	СҮ	FULL-DEPTH REPAIR
	11101	35	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN			35			2 (11/19)		•			ALL-30-9.306R
	13001	325	FT	GUARDRAIL, TYPE 5, AS PER PLAN #				325		(3/19)	202	23500	424	SY	WEARING COURSE REMOVED (T=1.7
	35121	4	FACH	BRIDGE TERMINAL ASSEMBLY, TYPE 3, AS PER PLAN #				4		(3/19)	409	30000	80	FT	SAWING AND SEALING ASPHALT CONCRETE PAV
	110	10	FACH	BARRIER REFLECTOR. TYPE 2 (BIDERECTIONAL) #				10		(0/10/	517	75600	150	FT	DEEP BEAM BRIDGE RETROFIT RAIL
	50000	35	SE	PATCHNG CONCRETE STRUCTURES WITH TROWELABLE MORTAR			35	10		2 (11/19)	SPECIAL	51822300	130	FT	STEEL DRIP STRIP
	10100	978	SV SV	LATEX MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION (T=2.25")	178		800				848	10100	474	SY	LATEX MODIFIED CONCRETE OVERLAY USING HYDROD
	20000	070	sv	SURFACE PREPARATION USING HYDRODEMOLITION (T=1.0")	178		800				8/18	20000	/24	SV SV	
	20000				11 2		500				8/18	30100	32 5		
	50100	60			60		50				040 8/18	50100	55	sv	
	50000		51		00			10			8/R	50000	15	51	TFST SLAB
	50100	LS						LS			040	50100			
	11200	10					10				040	50200	<b>⊥</b>	Cr	
	11200		CV CV		124						202	22500	CE A	CV CV	
	23500	/50			134		622	225			202	25500	225		
	38000	325	FI					325			202	38500	325		
	47000	4	EACH					4			202	38500	400		
	10050	8	5Y	SEALING OF CONCRETE SURFACES (NONEPOXY)					8	0 (44 (40)	202	47000	4	EACH	
	14600	49	FI	STRUCTURAL JOINT OR JOINT SEALER MISC. : USING DOW CORNING 902		49				2 (11/19)	509	10000	5808	LB	
	72750	507	FT	RAILING (THRIE BEAM RETROFIT)			507				510	10001	1120	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC G
	11101	103	SF	PAICHING CONCRETE STRUCTURE, AS PER PLAN			63		40	2 (11/19)	511	34448	25.2	CY	CLASS QC2 CONCRETE, BRIDGE DECK (P
	13001	325	FT	GUARDRAIL, TYPE 5, AS PER PLAN #				325		(3/19)	516	14600	48	FT	STRUCTURAL JOINT OR JOINT SEALER MISC. : USING
	35121	4	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 3, AS PER PLAN #				4		(3/19)	519	11101	26.5	SF	PATCHING CONCRETE STRUCTURE, AS P
	110	10	EACH	BARRIER REFLECTOR, TYPE 2 (BIDERECTIONAL) #				10			606	13001	325	FT	GUARDRAIL, TYPE 5, AS PER PLAN
	50000	103	SF	PATCHNG CONCRETE STRUCTURES WITH TROWELABLE MORTAR			63		40	2 (11/19)	606	26501	2	EACH	ANCHOR ASSEMBLY, TYPE T, AS PER P
	10100	756	SY	LATEX MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION (T=2.25")	134		622				606	35001	4	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 1, AS I
	20000	756	SY	SURFACE PREPARATION USING HYDRODEMOLITION (T=1.0")	134		622				609	23000	72	FT	COMBINATION CURB AND GUTTER, TY
	30100	48	СҮ	LATEX MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY	9		39				626	00102	6	EACH	BARRIER REFLECTOR, TYPE 1 (BIDIRECTI
	50000	60	SY	HAND CHIPPING	60						626	00110	6	EACH	BARRIER REFLECTOR, TYPE 2 (BIDIRECTI
	50100	LS		TEST SLAB				LS			843	50000	26.5	SF	PATCHNG CONCRETE STRUCTURES WITH TROW
							848	10100	654	SY	LATEX MODIFIED CONCRETE OVERLAY USING HYDROE				
# - ROADWAY ITEMS INCLUDED WITH STRUCTURE ITEMS AND CARRIED TO GENERAL SUMMARY AND								848	20000	654	SY	SURFACE PREPARATION USING HYDRODEMOL			
PLACED UNDER ROADWAY, PAVEMENT OR TRAFFIC CONTROL SECTIONS.							848	30100	40.9	CY	LATEX MODIFIED CONCRETE OVERLAY (VARIABLE THICH				
							848	50000	45	SY	HAND CHIPPING				
	NOTE: FOR SHEET #, THE FIRST DIGIT IS THE BRIDGE PLAN SHEET NUMBER, THE FOLLOWING NUMBERS							848	50100	15		TEST SLAB			
								-			0+0	50100	LJ		

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) GENERAL SUMMARY)						3
						2
l.75")	135		289			4
AVEMENT JOINTS		80				3
ONEPOXY)			12			2
ILING			147			$\mathcal{L}$
			130			~
PER PLAN			154		2 (11/19)	4
VELABLE MORTAR			154			3
DEMOLITION (T=2.75")	135		289			2
DLITION (T=1.0")	135		289			2
CKNESS), MATERIAL ONLY	10.4		22.1			$\lambda$
	55		9			4
				LS		3
			1			2
75")	135		289			2
AVEMENT JOINTS		80				2
LING			147			4
			130			3
DEMOLITION (T=2.75")	135		289			3
LITION (T=1.0")	135		289			2
KNESS), MATERIAL ONLY	10.4		22.1			2
	55					~
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2511	124		<b>5</b> 20			
25")	134		520			
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			400	Δ		$\langle \leq \rangle$
			F000	4		
			5808		2/11/10	YU E
GRUUT, AS PER PLAN			1120		2 (11/19)	
			25.2			<u>Д</u> П,
G DOW CORNING 902		48			2 (11/19)	
			26.5		2 (11/19)	
				325	(3/19)	$1 \geq \frac{1}{2}$
PLAN #				2	(3/19)	)⊏ °
PER PLAN #				4	(3/19)	$\sum_{i}$
				72		<u>γ</u> ш -
IUNAL) #				6		~
IONAL) #				6		4
			26.5		2 (11/19)	3
DEMOLITION (T=2.25")	134		520			3
LITION (T=1.0")	134		520			2
KNESS), MATERIAL ONLY	8.4		32.5			2
	45					4
				LS		4
			1			4

DESIGN AG	ENCY					
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119	043					
SUBSET	TOTAL					
2	9					
SHEET	TOTAL					
12	19					



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- 2.25" LATEX MODIFIED CONCRETE OVERLAY

- ITEM 519 - PATCHING CONCRETE STRUCTURE - CY

## NOTES

DETAILS SHOWN ARE TAKEN FROM EXISTING PLANS AND ARE FOR REFERENCE ONLY.

ALL DIMENSIONS CONSIDERED APPROXIMATE.

# - ONE PROPOSED GUARDRAIL APPROACH AND TRANSITION DETAIL SHOWN, BUT APPPLIES TO ALL FOUR GUARDRAIL APPROACHES AND

#### **PROPOSED WORK**

1.) REMOVE 1.25"± MICRO-SIL. CONCRETE

- 2.) OVERLAY THE DECK AND APPROACH SLABS WITH
- 2.25" OF LATEX MODIFIED CONCRETE
- 3.) SEAL EXP. JOINT DOW CORNING
- 5.) PATCH AND SEAL THE LEFT REAR PIER COLUMN.

# **EXISTING STRUCTURE**

TYPE: 4 SPAN CONTINUOUS STEEL BEAM WITH REINFORCED CONCRETE DECK AND

SPANS: 48'-0" , 68'-6" , 68'-6" , 48'-0"

ROADWAY: 24'-0" F/F; 2'-0" SAFETY CURBS

WEARING SURFACE: 1.25" MICRO-SIL. CONC.

APPROACH SLABS: 25'-0" LONG (SPECIAL)

STRUCTURAL FILE NUMBER: 0200301

DISPOSITION: TO BE REHABILITATED



USE PM IME: /2024 (in.)

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