\bigcirc		
\bigcirc		
\bigcirc		
0		
	LOCATION MAP	
	LATITUDE: N40°49'29" LONGITUDE: W84°03'07"	
	SLALE IN MILES	
	PORTION TO BE IMPROVED	
	INTERSTATE HIGHWAY	
	STATE ROUTES Q COUNTY & TOWNSHIP ROADS	
<u>.</u> {	E OTHER ROADS	
Mag	DESIGN DESIGNATION (U.S. 30)	
, , , ,	ير CURRENT ADT (2021) 12000 DESIGN YEAR ADT (2041) 16800	
	DESIGN HOURLY VOLUME (2041) 1270 DIRECTIONAL DISTRIBUTION 0.51	
	TRUCKS (24 HOUR B&C) 0.48	
	LEGAL SPEED 70 MPH	
	المعادي الم معادي المعادي المع معادي المعادي المعا معادي المعادي المع	
	NHS PROJECT YES	
0+0 9 7	NONE REQUIRED	
N N 11		
+ 0 0	Contact Two Working Days	
	Before You Dig	
		GINEERS
	Girage Before You Dig	TE O/
C 4 4	OHIO811, 8-1-1, or 1-800-362-2764 (Non-members must be called directly)	MARK
		LIMBAU E-801
	PLAN PREPARED BY: Image: Comparison of the prepared by: OHIO DEPARTMENT OF TRANSPORTATION Image: Compared by:	POFESSIONAL
	DISTRICT ONE LIMA, OHIO	D: Mart.
2		

STATE OF OHIO DEPARTMENT OF TRANSPORTATION



INDEX OF SHEETS:

TITLE SHEET	1
GENERAL NOTES	2
MAINTENANCE OF TRAFFIC	3-4
GENERAL SUMMARY	5
STRUCTURE OVER 20 FOOT SPAN	6-14A

LITIES Davs				STANDARD CONST	RUCTION DRAWIN	IGS	SUPPL SPECIF	EMENTAL	SPE PROV
		GSD-1-19 BR-1-67 RB-1-55	1/18/19 2/1/69 7/19/13				800 832 849	1/15/21 10/19/18 1/18/13	A SB. REF 1/1
rg	ENGINEERS SEAL:	SD-1-65 MT-95.30	11/8/65 7/19/19						
6 2 - 27 6 4 rectly)	MARK A.	MT-95.45 MT-95.50 MT-95.60	1/17/20 7/21/17 4/19/19						
	E-80141	MT-101.60 MT-105.10	1/17/20 1/17/20						
RTATION	SIGNED: Mark Lubray								

		1
	PROJECT DESCRIPTION THIS STRUCTURE IS LOCATED OVER U.S. 30 IN ALLEN COUNTY. REPAIR DAMAGED BRIDGE (RESULT OF OVER-HEIGHT VEHICLE HIT) BY REPLACING PORTION OF EXTERIOR BEAM, CROSSFRAMES, PORTION OF DECK, PARAPET, SCUPPERS, AND ROCKER BEARINGS. HEAT STRAIGHTEN INTERIOR BEAM. PAINT REPLACEMENT BEAM, CROSSFRAMES, AND DAMAGED HEAT STRAIGHTENED BEAM.	FEDERAL PROJECT NO. NON-FEDERAL
	PROJECT EARTH DISTURBED AREA: 0.00 ACRES ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.25 ACRES NOTICE OF INTENT EARTH DISTURBED AREA: N/A (NOI NOT REQUIRED) * * = MAINTENANCE PROJECT	PID NO. 114446
	2019 SPECIFICATIONS THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.	CONSTRUCTION PROJECT NO.
	I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DE- TOURS WILL BE PROVIDED AS INDICATED ON SHEET 3.	RAILROAD INVOLVEMENT NONE
ECIAL VISIONS PESTOS PORT 11/21	APPROVED <u>Christiples A Hughes</u> DATE <u>0211212021</u> DISTRICT DEPUTY DIRECTOR	ALL-30-14.93
	APPROVED DATE DIRECTOR, DEPARTMENT OF TRANSPORTATION	1

IONS	PROVISIONS
5/21 9/18 8/13	ASBESTOS REPORT 1/11/21

	SHEET	F NUM.		PART.	ITEM	ITEM	GRAND		DESCRIPTION
2	3	4	7	01/NFP/BR		EXT	TOTAL	UNIT	DESCRIPTION
									EROSION CONTROL
1 0 0 0				1.000	070	70000	1.000	FAOU	
1,000				1,000	832	30000	1,000	EACH	
									STRUCTURE OVER 20 FOOT SPAN (ALL-30-14.93)
			15	15	202	11201	15		PORTIONS OF STRUCTURE REMOVED AS PER PLAN
			34,917	34,917	509	10001	34,917	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN
			117	117	511	34444	117	CY	CLASS QC2 CONCRETE, BRIDGE DECK
			197	27	511	10100	27	CY SY	CLASS QUZ CONCRETE, BRIDGE DECK (PARAPET) SEALING OF CONCRETE SUBFACES (EPOXY-UBETHANE)
				101	OIL	10100	101	51	
			6	6	512	10300	6	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN
			17,600	17,600	513	10261	17,600	E V C H	STRUCTURAL STEEL MEMBERS, LEVEL 3, AS PER PLAN
			131	131	514	00050	131	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL
			131	131	514	00056	131	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT
			1 234	1 234	514	00000	1 234	SE.	FIELD PAINTING STRUCTURAL STEEL INTERMEDIATE COAT
			1,234	1,234	514	00066	1,234	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT
			2	2	514	10000	2	EACH	FINAL INSPECTION REPAIR
			2	2	516	46200	2	EACH	BEARING DEVICE, ROCKER
			5	5	010	46700	5	EACH	
			LS	LS	516	46930	LS		BEARING DEVICE, MISC.:TEMPORARY BEARINGS
			LS	LS	516	47000	LS	EACU	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE
			4	4	518 614	13310	4	EACH EACH	BARRIER REFLECTOR, TYPE 1 (BI-DIRECTIONAL)
			0.03	0.03	642	00300	0.03	MILE	CENTER LINE, TYPE 1
					0.40	10000			
					849	10500			SURFACE PREPARATION
			7	7	849	10600	7	HOUR	REPAIRING DAMAGED MEMBERS BY GRINDING
			LS	LS	849	10700	LS		STRAIGHTENING DAMAGED MEMBERS
									MAINTENANCE OF TRAFFIC
	80			80	614	11110	80	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE
	1			1	614	12500	1	EACH	REPLACEMENT SIGN
	1	_		1	614	12600	1	EACH	REPLACEMENT DRUM
		3		3	614	18600	3	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN
		1.25		1.25	614	22210	1.25	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I
		420		420	614	24402	420	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 740.06, TYPE I
									INCIDENTALS
				LS	614	11000	LS		MAINTAINING TRAFFIC
				3	619 623	16010	3	MNIH	FIELD OFFICE, TYPE B
				LS	624	10000	LS		MOBILIZATION
			-					<u> </u>	
	-	-	-	-	-	-	-	-	

SEE	LATEI AL CKED AB
SHEET NO.	ALCU CHEC
2	
 0	
8	
8	
9	
	n l
	₹
	≧
	SI
	· ·
14 A	A L
0	2
9	<u> </u>
	ច
3	
	6
	6
 	4
	30
	I Ĭ.
	A
	$\begin{pmatrix} 5 \\ 14 \end{pmatrix}$

ITEM		01/NFP/BR	LINIT	DESCRIPTION	ADUT	DIEDS	SLIDED	CEN	CII
	EXTENSION	TOTAL	UNIT	DESCRIPTION	ADUT.	FIERS	SUFER.	GEN.	
202	11201	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN			LUMP		
509	10001	34,917	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN			34,917		
511	34444	117	СҮ	CLASS QC2 CONCRETE, BRIDGE DECK			117		
511	34448	27	СҮ	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)			24		
512	10100	197	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)			197		
512	10300	6	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN			6		
513	10261	17,600	LB	STRUCTURAL STEEL MEMBERS, LEVEL 3, AS PER PLAN			17600		
513	21001	1	EACH	TRIMMING OF BEAM END, AS PER PLAN			1		
514	00050	131	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL			131		
514	00056	131	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT			131		
E14	00000	1.07.4					1.074		_
514	00060	1,234	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			1,234		_
514	00066	1,234	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			1,234		_
514	10000	2	EACH	FINAL INSPECTION REPAIR	1	1			
516	46200	2	EACH	BEARING DE VICE, ROCKER		1			
516	46700	5	EACH	RESE BEARING	3	2			_
F 10	40070								_
516	46930	LS		BEAKING DEVICE, MISC.: TEMPORART BEAKINGS				LUMP	
516	47000	LS	E A QUI	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE					
518	12301	4	EACH	SUDPPERS, INCLUDING SUPPORTS, AS PER PLAN			4		_
6/2	15510	4	MILE	BARRIER REFLECTOR, TYPE T			4		_
042	00300	0.05					0.05		
849	10000	LS		DAMAGE ASSESSMENT			LUMP		
849	10500	LS		SURFACE PREPARATION			LUMP		
849	10600	7	HOUR	REPAIRING DAMAGED MEMBERS BY GRINDING			7		
849	10700	LS		STRAIGHTENING DAMAGED MEMBERS			LUMP		

 \bigcirc

 \bigcirc

tructure\sheets\114446EQ001.dgn Sheet 05-MAR-2021 3:09PM mlim

 \bigcirc

 \bigcirc



STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWING(S):

NEI EN IO INE	I OLLOWING STANDARD	DRIDOL DRAMINO(S)	
GSD-1-96	DA TED/REVISED	1/18/19	
BR-1-67	<i>DA TED/REVISED</i>	2/1/69	
RB-1-55	<i>DA TED/REVISED</i>	7/19/13	
SD-1-65	<i>DA TED/REVISED</i>	11/8/65	
SEE PROJECT	REFERENCE-ONLY FILES	FOR DRAWINGS ABOVE.	

REFER TO THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS:

00	DATED	1/15/21
49	DATED	1/18/13

EXISTING BRIDGE PLANS

THE EXISTING BRIDGE PLANS MAY BE INSPECTED IN THE OFFICE OF STRUCTURAL ENGINEERING IN COLUMBUS, OHIO OR AT THE ODOT DISTRICT 1 OFFICE. 1885 McCULLOUGH STREET. LIMA. OHIO 45801. ALSO SEE REFERENCE-ONLY FILES - FTP SERVER

DESIGN LOADING

SUPERSTRUCTURE: HS-20 AND ALTERNATE MILITARY LOADING (AML)

DESIGN DATA

 \bigcirc

 \bigcirc

 \bigcirc

 \bigcirc

STRUCTURAL STEEL (NEW WF36X135 AND WF36X170 BEAMS): ASTM A709 GRADE 36 OR GRADE 50 OR GRADE 50W

STRUCTURAL STEEL (CROSSFRAMES): ASTM A36

STRUCTURAL STEEL (EXISTING STRUCTURE) ASTM A36

STEEL RESTRAINT OR PRELOAD LIMITS: EXISTING ASTM A36 -DO NOT SUBJECT ANY PART OF THE STRUCTURE TO A JACKING, PULLING OR RESTRAINING UNIT STRESS EXCEEDING 18,000 PSI (124.1 MPA)

CONCRETE QC2- COMPRESSIVE STRENGTH 4500 PSI (SUPERSTRUCTURE)

REINFORCING STEEL - ASTM A615 OR A996, GRADE 60, MINIMUM YIELD STRENGTH 60,000 PSI

DECK PROTECTION METHOD

EPOXY COATED REINFORCING STEEL

PROPOSED WORK:

- 1.) REMOVE ALL THE REMAINING CONCRETE DECK AND PARAPETS NORTH OF THE MEDIAN PIER CENTERLINE. TAKE CARE TO AVOID DAMAGE TO THE SOUTHERN HALF OF THE DECK TO
- REMAIN. IF USING LAPS INSTEAD OF MECHANICAL
- CONNECTORS, TAKE CARE TO AVOID DAMAGE TO THE EXISTING REBAR THAT WILL BE USED TO LAP.
- 2.) REMOVE DAMAGED CROSSFRAMES
- 3.) PREPARE SURFACES FOR HEAT STRAIGHTENING AND GRIND TO REMOVE SHARP EDGES FROM GROOVES AND GOUGES IN DAMAGED BEAM.
- 4.) HEAT STRAIGHTEN BEAM 3 OVER W.B. US 30 PER SUPPLEMENTAL SPECIFICATION 849.
- 5.) CUT END OF BEAM 4 TO AN EVEN, STRAIGHT END.
- 6.) INSTALL NEW BEAM 4 SECTIONS AND SPLICE PLATES BETWEEN CUT END TO NORTH ABUTMENT; INSTALL NEW ROCKER BEARINGS.
- 7.) RESET OUT-OF-ADJUSTMENT ROCKER BEARINGS
- 8.) REPLACE THE REMOVED CROSSFRAMES
- 9.) REPLACE SCUPPERS
- 10.) SURFACE PREP. AND PAINT REPLACED BEAM, DAMAGED AREA OF BEAMS AND REPLACED CROSSFRAMES
- 11.) PLACE FORMS, REINFORCING STEEL & MECHANICAL CONNECTORS (IF USED INSTEAD OF LAP SPLICING WITH EXISTING REINFORCING STEEL), AND REPLACE CONCRETE DECK 12.) REPLACE PARAPETS
- 13.) SEAL PORTION OF DECK WHERE OLD AND NEW MEET WITH HMWM RESIN
- 14.) SEAL PARAPET. DECK EDGE. AND 6" UNDER DECK EDGE WITH EPOXY-URETHANE SEALER

DEMOLITION DEBRIS

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

DECK PLACEMENT DESIGN ASSUMPTIONS:

THE FOLLOWING ASSUMPTIONS OF CONSTRUCTION MEANS AND METHODS WERE MADE FOR THE ANALYSIS AND DESIGN OF THE SUPERSTRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF THE FALSEWORK SUPPORT SYSTEM WITHIN THESE PARAMETERS AND WILL ASSUME RESPONSIBILITY FOR SUPERSTRUCTURE ANALYSIS FOR DEVIATION FROM THESE DESIGN ASSUMPTIONS.

AN EIGHT WHEEL FINISHING MACHINE WITH A MAXIMUM WHEEL LOAD OF 2.2 KIPS FOR A TOTAL MACHINE LOAD OF 17.6 KIPS. A MIN. OUT-TO-OUT WHEEL SPACING AT EACH END OF THE MACHINE OF 103".

A MAX. SPACING OF OVERHANG FALSEWORK BRACKETS OF 48"

A MAXIMUM DISTANCE FROM THE CENTERLINE OF THE FASCIA GIRDER TO THE FACE OF THE SAFETY HANDRAIL OF 65".

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, 105.02 AND 513.04. BASE CONTRACT BID PRICES UPON RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PRE-BID 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.

INSPECTION OF EXISTING STRUCTURAL STEEL

THE ENGINEER WILL VISUALLY INSPECT ALL EXISTING TOP FLANGE COVER PLATE FILLET WELDS TO ENSURE THE WELDS, PLATES ANDBEAMS OR GIRDERS ARE FREE OF DEFECTS AND CRACKS. IF NECESSARY, REMOVE ALL DECK SLAB HAUNCH FORMS IMMEDIATELY ADJACENT TO SUCH WELDS THAT MAY INTERFERE WITH THE ENGINEER'S INSPECTION. THE INSPECTION WILL NOT TAKE PLACE UNTIL THE TOP FLANGES ARE CLEANED ACCORDING TO 511.10, BUT IT WILL BE DONE BEFORE THE DECK SLAB REINFORCEMENT IS INSTALLED. THE DEPARTMENT WILL PAY FOR THE COST ASSOCIATED WITH THIS INSPECTION WITH ITEM 511, CLASS QC2 CONCRETE, BRIDGE DECK. THE ENGINEER WILL REPORT ALL CRACKS FOUND TO THE OFFICE OF CONSTRUCTION ADMINISTRATION, BRIDGE CONSTRUCTION SPECIALIST, ALONG WITH SPECIFIC INFORMATION ON LOCATION OF THE CRACKS, LENGTH, AND DEPTH SO AN EVALUATION AND REPAIR OR REPLACEMENT RECOMMENDATION CAN BE MADE.

CUT LINE CONSTRUCTION JOINT PREPARATION

SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS 1 INCH DEEP. REMOVE CONCRETE TO A ROUGH SURFACE. LEAVE THE EXISTING REINFORCING STEEL, IF REQUIRED IN THE PLANS, IN PLACE. 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 REINFORCING STEEL 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.

ITEM 202, PORTIONS OF STRUCTURE REMOVED, AS PER PLAN

THE PROVISIONS OF ITEM 202 APPLY EXCEPT AS SPECIFIED BY THE FOLLOWING NOTES. PERFORM WORK CAREFULLY DURING REMOVALS TO PROTECT PORTIONS OF SUCH SYSTEMS THAT ARE TO BE SALVAGED AND INCORPORATED INTO THE PROPOSED STRUCTURE. THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE RAM TYPE OF EQUIPMENT IS PROHIBITED. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

PORTION TO BE REMOVED, AS PER PLAN
ALL DECK & PARAPET NORTH OF MEDIAN PIER & SCU
1 FULL SET OF CROSSFRAMES, 6 SETS OF CROSSFRAI
ANGLE REMNANT STUBS WHERE PREVIOUSLY CUT AND
REMOVED WITH EXTERIOR BEAM PORTION, 2 DAMAGED
ANGLE SECTIONS FROM END CROSSFRAME

ITEM 202 - PORTIONS OF STRUCTURE REMOVED. AS PER PLAN

DECK AND PARAPET

THE RIGHT (EAST) PARAPET HAS BEEN REMOVED FROM APPROXIMATELY 16 FEET NORTH OF PIER 2 (MEDIAN PIER) TO THE FORWARD (NORTH) ABUTMENT. THE EXTERIOR BAY OF BRIDGE DECK HAS BEEN REMOVED IN THIS AREA TO WITHIN ±1 FOOT FROM BEAM 3 (WESTERN INTERIOR) BY PROJECT PID 114404.

SAWCUT THE DECK ALONG THE € OF BEARING AT PIER 2 AND REMOVE THE REMAINING NORTH HALF OF THE BRIDGE DECK AND PARAPET FROM PIER 2 TO THE FORWARD ABUTMENT. EITHER PRESERVING THE REQUIRED 43" LAP LENGTH FOR EXISTING LONGITUDINAL BARS AT THE CUT TO FORM A LAP SPLICE OR USING A MECHANICAL CONNECTOR PER C&MS 509 AND NOTE ON THE TRANSVERSE DECK SECTION SHEET.

CROSS-FRAMES

FLAME OR SAW CUT THE EXISTING MEMBERS TO WITHIN 1/8 INCH OF THE EXISTING MAIN MATERIAL USING A MECHANLICAL GUIDE ACCORDING TO C&MS 513.12. PROVIDE SHIELDING AS NECESSARY TO PREVENT DAMAGE TO MAIN OR SECONDARY MEMBERS THAT REMAIN. GRIND THE EXISTING MAIN OR SECONDARY MEMBER SMOOTH IN PREPARATION FOR COMPLETE PENETRATION OR FILLET WELDING. PROVIDE A SURFACE FINISH ACCORDING TO ANSI B46.1 OF 250 MIL (TO ACCOMMODATE THE PROPOSED REPLACEMENT MATERIALS). DETERMINE FINAL QUANTITIES BY FIELD MEASUREMENTS.

PROTECTION OF STEEL SUPPORT SYSTEMS: BEFORE DECK SLAB CUTTING IS PERMITTED, DRAW THE OUTLINE OF PRIMARY STEEL MEMBERS IN CONTACT WITH THE BOTTOM OF THE DECK ON THE SURFACE OF DECK. DRILL SMALL DIAMETER PILOT HOLES 2 INCHES OUTSIDE THESE LINES TO CONFIRM THE LO-CATION OF FLANGE EDGES. DECK CUTS OVER OR WITHIN 2-INCHES OF FLANGE EDGES SHALL NOT EXTEND LOWER THAN THE BOTTOM LAYER OF DECK SLAB REINFORCING STEEL. CUTS MADE OUTSIDE 2 INCHES OF FLANGE EDGES MAY EXTEND THE FULL DEPTH OF THE DECK. PERFORM WORK CAREFULLY DUR-ING CUTTING OF THE DECK SLAB TO AVOID DAMAGING STEEL MEMBERS THAT ARE TO BE INCORPORATED INTO THE PROPOSED STRUCTURE. REPLACE OR REPAIR STEEL MEMBERS DAMAGED BY THE DECK SLAB CUTTING OPERATIONS AT NO COST TO THE PROJECT. AT LEAST 7 DAYS BEFORE PERFORMING REPAIR WORK, SUBMIT A PROPOSED REPAIR PLAN, DEVELOPED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER TO THE DIRECTOR. OBTAIN THE DIRECTOR'S APPROVAL BEFORE PERFORMING REPAIR.

REMOVAL METHODS: THE CONTRACTOR MAY REMOVE CONCRETE BY CUTTING AND BY MEANS OF HAND OPERATED PNEUMATIC HAMMERS EMPLOYING POINTED OR BLUNTED CHISEL TYPE TOOLS. FOR REMOVALS OVER STRUCTURAL MEMBERS (STEEL BEAM), THE CONTRACTOR MAY USE A HAMMER HEAVIER THAN 35 POUNDS BUT NOT TO EXCEED 90 POUNDS UNLESS APPROVED BY THE ENGINEER. REMOVAL METHODS OVER STRUCTURAL MEMBERS SHALL ENSURE ADEQUATE DEPTH CONTROL AND PREVENT NICKING OR GOUGING THE PRIMARY STRUCTURAL MEMBERS.



DUE TO THE POSSIBLE PRESENCE OF ATTACHMENTS (E.G., FINISHING MACHINE, FORM SUPPORTS, ETC.) TO EXISTING STRUCTURAL MEMBERS, PERFORM WORK CAREFULLY DURING DECK REMOVAL TO AVOID DAMAGING STRUCTURAL MEM-BERS THAT ARE TO REMAIN. REPLACE OR REPAIR STRUCTURAL MEMBERS DAMAGED BY THE REMOVAL OPERATIONS AT NO COST TO THE PROJECT. AT LEAST 7 DAYS BEFORE PERFORMING REPAIR WORK, SUBMIT A PROPOSED REPAIR PLAN, DEVELOPED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER TO THE DIRECTOR. OBTAIN THE DIRECTOR'S APPROVAL BEFORE PER-FORMING REPAIR.

EXISTING WELDED ATTACHMENTS: REMOVE EXISTING WELDED ATTACHMENTS (E.G., FINISHING MACHINE AND FORM SUPPORTS) LOCATED ON THE TOP FLANGES OF EXISTING STEEL MEMBERS AND GRIND THE FLANGE SURFACES SMOOTH. CAREFULLY GRIND PARALLEL TO THE FLANGES.

MEASUREMENT & PAYMENT: THE DEPARTMENT WILL MEASURE THE QUANTITY OF REMOVALS ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES OF REMOVALS AT THE CONTRACT PRICE FOR ITEM 202, PORTIONS OF STRUCTURE REMOVED. AS PER PLAN.

ITEM 509 - EPOXY COATED REINFORCING STEEL, AS PER PLAN

ITEM 509 - EPOXY COATED REINFORCING STEEL, AS PER PLAN: IN ADDITION TO THE PROVISIONS OF ITEM 509, FIELD BEND AND/OR FIELD CUT THE REINFORCING STEEL 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 709.00.

ITEM 512 - SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN

APPLY HMWM RESIN TO AN AREA 2 FEET WIDE, CENTERED ON THE JUNCTION OF THE EXISTING CONCRETE DECK AND REPLACED CONCRETE DECK SURFACE OVER PIER 2 (MEDIAN PIER).

ITEM 513 - STRUCTURAL STEEL MEMBERS. LEVEL 3. AS PER PLAN: ALL REQUIREMENTS OF 513 APPLY TO SHOP FABRICATED MEMBERS. PERFORM WORK FOR FIELD FABRICATED MEMBERS ACCORDING TO ITEM 513, EXCEPT AS MODIFIED HEREIN. THE DEPARTMENT WILL NOT REQUIRE THE CONTRACTOR PERFORMING FIELD FABRICATION TO BE PRE-QUALIFIED AS SPECIFIED IN SUPPLEMENT 1078. SUBMIT A WRITTEN LETTER OF MATERIAL ACCEPTANCE, 501.06, TO THE ENGINEER. PROVIDE SHOP DRAWINGS ACCORDING TO 513.06 OR SUPPLY THE ENGINEER WITH "AS BUILT" DRAWINGS MEETING 513.06 AFTER COMPLETION OF FIELD FABRICATION. THE ENGINEER WILL REVIEW THE SUBMITTED DRAWINGS FOR CONCURRENCE WITH THE FINAL AS-BUILT CONDITION. THE ENGINEER MAY CONTACT THE OFFICE OF STRUCTURAL ENGINEERING FOR TECHNICAL ASSISTANCE. IF THE ENGINEER IS SATISFIED WITH THE "AS-BUILT" DRAWINGS AND THE DELIVERED MATERIALS. SUPPLY A COPY OF THE DRAWINGS, STAMPED, SEALED AND DATED, ACCORDING S1002, TO THE STRUCTURAL, WELDING AND METALS SECTION OF THE OFFICE OF MATERIAL MANAGEMENT FOR RECORD PURPOSES. THE MEMBERS INCLUDED IN THIS ITEM ARE PROVIDED IN TABLE 2 AND 3.

REPLACEMENT CROSSFRAME MEMBERS ARE TO BE PAINTED PER CMS 514 FIELD PAINTING AS NOTED IN THESE PLANS.

IF SPLICE PLATE BOLTS ARE LOOSTENED OR REMOVED. THEY MUST BE REPLACED WITH NEW BOLTS PER CMS 711.09.

THE DEPARTMENT WILL INCLUDE ALL MATERIALS, TOOLS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK FOR PAYMENT WITH ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL 3, AS PER PLAN: POUND.

A A L I _ <u>_</u> œ 0 4 5 0 ¥ 0 0 0 m MAL т Δ 0 Ϋ́, Ϋ́, μŪ, ◄ Ш Ш μĻ Т zŪ οĀ S E S T 0 3 6 4 Ο 3 ◄ 14

TRIM THE EXTERIOR BEAM AT THE EXISTING TORCH CUT LOCATION TO A SQUARE STRAIGHT CUT READY FOR SPLICING WITH THE REPLACEMENT BEAM. ENSURE THAT THE LENGTH REMOVED DOES NOT PREVENT THE REPLACEMENT BEAM FROM MEETING AT THE NEW SPLICE LOCATION.

ITEM 514 - SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL ITEM 514 - FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT ITEM 514 - FIELD PAINTING OF EXISTING STRUCTURAL STEEL, INTERM. COAT ITEM 514 - FIELD PAINTING OF EXISTING STRUCTURAL STEEL, FINISH COAT ITEM 514 - FINAL INSPECTION REPAIR

NEW REPLACEMENT EXTERIOR BEAM 4, REPLACEMENT CROSSFRAMES, AND REPLACEMENT ROCKER BEARINGS SHALL BE DELIVERED SHOP COATED WITH PRIME COAT PER C&MS 513.27 & 513.30.

TRIMMED END OF EXISTING BEAM, EXISTING MEMBER PAINT REMOVAL / PAINT DAMAGE AREAS AT REPLACEMENT CROSSFRAME CONNECTIONS, AND BEAM 3 AREA OF PAINT REMOVAL / PAINT DAMAGE AT HEAT STRAIGHTENING REPLACEMENT CROSSFRAME CONNECTION AREAS WILL RECEIVE SURFACE PREPARATION AND PRIME COAT PER C&MS ITEM 514.

INTERMEDIATE AND FINISH COAT PAINT PER C&MS ITEM 514 THE FOLLOWING AREAS:

REPLACEMENT EXTERIOR BEAM 4 (INCLUDING SPLICES AND PAINT REMOVAL / PAINT DAMAGE AREA AT TRIMMED END OF EXISTING BEAM, ALL REPLACEMENT CROSSFRAME MEMBERS (AND EXISTING MEMBER PAINT REMOVAL / PAINT DAMAGE AREAS AT REPLACEMENT CROSSFRAME CONNECTIONS), BEAM 3 AREA OF PAINT REMOVAL / PAINT DAMAGE AT HEAT STRAIGHTENING LOCATION, REPLACED ROCKER BEARINGS

ITEM 516 - BEARING DEVICE, ROCKER

PROVIDE ROCKERS ACCORDING TO STD. DWG. RB-1-55. USE R-100 ROCKER AT BEAM 4 FORWARD ABUTMENT (NORTH) AND R-175 ROCKER AT BEAM 4 PIER 3 (NORTH SHOULDER)

ITEM 516 - RESET BEARING

RESET ALL 3 REMAINING FORWARD (NORTH) ABUTMENT BEARINGS AND RESET BEAM 3 (EAST INTERIOR) BEARING AT PIER 3 (NORTH SHOULDER) AND BEAM 4 (EAST EXTERIOR) AT PIER 2 (MEDIAN).

ITEM 518 - SCUPPERS, INCLUDING SUPPORTS, AS PER PLAN

REPLACE SCUPPERS AT LOCATIONS SHOWN ON SHEET 10. USE TYPE 1 SCUPPERS PER DRAWING SD-1-65 REV. 11/8/65 IN THE REFERENCE-ONLY FILES.

ITEM 642 - CENTER LINE, TYPE 1

MATCH EXISTING CENTER LINE MARKINGS ON REPLACED PORTION OF DECK

 \bigcirc

 \bigcirc

 \bigcirc

DESIGNED CHECKED ODOT D1 EJS CAPITAL MAL REVIEWED PROGRAMS
PLAN INSERT SHEET COLLISION REPAIR AND HEAT STRAIGHTENING NOTES
ALL-30-14.93



	LIDAR	LIDAR ADJUSTED	plan value	
abutment to shoulder pier 3	47.7948	47.75	47.75	feet
shoulder pier 3 to cut	51.9527	51.9975	52.00	feet
cut to median pier 2	15.9222	16.00	16.00	feet

SCD SD-1-65 extra beam length beyond bearing - from bearing to 3" clearance from backwall

FINAL BEAM DIMENSIONS WF36x135

WF36x170



NOTE: ODOT SURVEY LIDAR SCAN POINT CLOUD OF BEAM IS AVAILABLE IN REFERENCE-ONLY CADD FILES.







NOTES:

DUE TO ANTICIP INSTALLED AT T ITEM 516 - BEAF PERMENANT BEA

BASIS OF PAYME NECESSARY TO F PRICE FOR ITEM

THE STEEL LOAL 50 STEEL

THE LUBRICANT AND CONSIST ON LUBRICATING BI CHEMICAL OR EL COMPRESSED IN THE DESIGN UNI

PROVIDE FOUR

ALL TEMPORARY NEOPRENE PADS

WHEN ROCKER RI DAMAGED PAINT ON SHEET 9/14. CONSIDERED INC

	DESIGN AGENCY	<u>ODOT, DISTRICT ONE,</u>	CAPITAL PROGRAMS
	REVIEWED DATE	JRU 3/2/2021	STRUCTURE FILE NUMBER 0200549
	DRAWN	MAL	REVISED MAL
	DESIGNED	A I	CHECKED
PATED RB-1-55 BEARING AVAILABILITY DELAYS, TEMPORARARY BEARINGS SHALL BE THE REPLACEMENT BEAM 4 PIER 3 AND FORWARD ABUTMENT BEARING LOCATIONS UNTIL RING DEVICE, ROCKER RB-1-55 R-100 AND R-175 CAN BE DELIVERED AND INSTALLED AS ARINGS. HENT: THE UNIT BID PRICE SHALL INCLUDE ALL MATERIALS, LABOR, AND INCIDENTALS FURNISH AND INSTALL TEMPORARY BEARINGS. PAYMENT WILL BE AT THE CONTRACT M 516, BEARING DEVICE, MISC.: TEMPORARY BEARINGS, LUMP SUM. D PLATES, MASONRY PLATES, AND HP SECTIONS SHALL BE ASTM A572/A709, GRADE CUSED BETWEEN BOTTOM FLANGE AND THE LOAD PLATE SHALL BE OF THE SOLID TYPE F GRAPHITE, METALLIC SUBSTANCES HAVING LUBRICATING OPCORTIES AND A INDER. MATERIALS WHICH DO NOT HAVE LUBRICATING OPCORTIES OR WHICH PROMOTE LECTROLYTIC REACTIONS WILL NOT BE ACCEPTABLE. THE LUBRICANT SHALL BE IT O THE LUBRICATION RECESSES WITH HYDRAULIC PRESSURE OF AT LEAST FIVE TIMES IT LOADING TO FORM A DENSE, NON-PLASTIC LUBRICANT. EXTRA 1/8" NEOPRENE PADS IN CASE ADDITIONAL SHIM THICKNESS IS REQUIRED. Y BEARING STEEL LOAD PLATES, MASONRY PLATES, HP 12 x 53 STEEL SHAPES, 1/8" S, FASTNERS, AND LUBRICANT ARE INCLUDED WITH THIS ITEM FOR PAYMENT. RB-1-55 R-100 AND R-175 ARE DELIVERED AND INSTALLED AS PERMENANT BEARINGS, O MHE DEAMS SHALL BE REPAIRED IN ACCORDANCE WITH ITEM 514 PAINTING NOTES LOADAGED PAINT REPAIR RELATED TO RECORDANCE WITH ITEM SIA PAINTING NOTES CINDENTAL TO ITEM 516, BEARING DEVICE, MISC. LUMP SUM	TEMPORARY BEARING DETAILS	2071-02-114	CR 165 SLABTOWN ROAD OVER U.S. 30
	ALL-20-14 03	ALL - 30 - 14.83	PID No. 114446
	9/	4/ 14	9
	ト	14	ブ