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DESCRIPTION	SEE SHEET NO.	CALCULATED JAS CHECKED BBB
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EXISTING REINFORCING STEEL, AS PER PLAN	14	
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STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS:

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWING(S): REVISED GSD-1-19 01-15-21

HL-20.13 DATED 04-17-21 HL-30.33 04-17-21 DATED

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATION(S): NONE

DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 9TH EDITION 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2021 ÉDITION, INCLUDING REVISIONS THROUGH JANUARY 2021.

DESIGN DATA:

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH, 4500 PSI (SUPERSTRUCTURE)

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

DESIGN LOADING:

HS-20-44

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM THE PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASURMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CRMS SECTIONS 102.05 AND 10 C OF DRAFT OF DRAFT PLO PROFE UPON A DECOMPLIAN AND 105.03. BASE CONTRACT BID PRICE 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.

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

DESCRIPTION:

DESCRIPTION: THIS WORK CONSISTS OF THE REMOVAL OF PORTIONS OF THE EXISTING CONCRETE DECK, ABUTMENTS, AND MEDIAN BARRIER. THE PROVISIONS OF ITEM 202 APPLY EXCEPT AS SPECIFIED BY THE FOLLOWING NOTES. PERFORM WORK CAREFULLY DURING DECK 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 C&MS 501.05.

CUT LINE JOINT PREPARATION:

SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS LINCH DEEP. REMOVE CONCRETE TO A ROUGH SURFACE. LEAVE TINCH DEEP. REMOVE CONCRETE TO A ROUGH SURFACE. LEAVE THE EXISTING REINFORCING STEEL, 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. THROUGHLY CLEAN THE JOINT SURFACE AND EXPOSED REINFORCEMENT OF ALL DIRT, DUST, RUST OR OTHER FOREIGN MATERIAL BY THE LUSE 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. THROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING CONCRETE.

REMOVAL METHODS:

THE CONTRACTOR MAY REMOVE CONCRETE BY CUTTING AND BY MEANS OF HAND OPERATED PNEUNATIC HAMMERS EMPLOYING POINTED OR BLUNTED CHICEL TYPE TOOLS. FOR REMOVALS OVER STRUCTURAL MEMBERS, 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.

DECK EDGE REMOVAL ALONG THE EXPANSION JOINT SHALL PRESERVE THE EXISTING REINFORCING STEEL BARS. IF REQUIRED FOR PROPER FIT UP OF THE PROPOSED EXPANSION JOINT THE EXISTING REINFORCING STEEL BARS MAY BE TRIMMED WITH APPROVAL FROM THE ENGINEER.

IF AN EXISTING REINFORCING STEEL BAR IS DAMAGED OR DETERMINED UNUSEABLE BY THE ENGINEER, THEN IT SHALL BE REPLACED BY THE USE OF A MECHANICAL CONNECTOR AND A REINFORCING STEEL BAR OF THE SAME SIZE AND LENGTH THAT WAS DAMAGED AT NO ADDITIONAL COST TO THE DEPARTMENT.

THE EXISTING BEAM ENDS SHALL HAVE A MINIMUM OF 3 INCHES OF CLEARANCE FROM THE EXISTING BACKWALL. IF THERE IS LESS THEN 3 INCHES OF CLEARANCE, THE EXISTING BEAM ENDS SHALL BE TRIMMED TO ALLOW FOR A MINIMUM OF 3 INCHES OF CLEARANCE.

THE EXISTING BRIDGE RAILING AND TERMIAL ASSEMBLY MAY BE REMOVED IF NEEDED TO COMPLETE THE PROPOSED WORK. THE REMOVAL SHALL BE DONE IN MANNER AS NOT TO DAMAGE THE EXISTING RATI ING.

MEASURMENT & PAYMENT:

THE DEPARTMENT WILL MEASURE THE QUANTITY OF REMOVALS ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES OF REMOVAL AT THE CONTRACT PRICE FOR ITEM 202, PORTIONS OF STRUCTURE REMOVED, AS PER PI AN

WASTE WATER

THE CONTRACTOR SHALL CONTAIN, AND PROPERLY DISPOSE OF (OFF SITE) ALL WASTE WATER GENERATED DURING THE WORK. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO ALL WATER USED TO CURE CONCRETE AND ALL WATER GENERATED DURING THE CONCRETE CURE CONCRETE AND ALL WATER GENERATED DURING THE CONCRETE SAWING/DRILLING OPERATIONS. AS SUCH, THE CONTRACTOR IS REQUIRED TO SUBMIT A PLAN TO THE ENGINEER DESCRIBING THE METHOD TO BE USED TO CONTAIN, COLLECT AND DISPOSE OF ALL WASTE WATER DURING WORK. THE DESCRIPTION MUST INCLUDE, BUT IS NOT LIMITED TO, ALL CONCRETE SAW WASTE WATER AND ALL WATER CURING WORK. THE PLAN IS TO BE SUBMITTED AND ACCEPTED DATE FOR FUEL PRODUCTION TO ACTIVITY ON THE EXISTING STRUCT BY THE ENFINEER PRIOR TO ANY ACTIVITY ON THE EXISTING STRUCTURE.

ITEM 509 REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN:

REPLACE ALL EXISTING REINFORCING BARS DEEMED BY THE ENGINEER TO BE UNUSABLE BECAUSE OF CORROSION. THE DEPARTMENT WILL MEASURE THE REPLACEMENT REINFORCING STEEL BY THE NUMBER OF POUNDS ACCEPTED IN PLACE.

REPLACE ALL EXISTING REINFORCING STEEL BARS WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND ARE DEEMED BY THE ENGINEER TO BE MADE UNUSABLE BY CONCRETE REMOVAL OPERATIONS WITH NEW EPOXY COATED REINFORCING STEEL OF THE SAME SIZE AT NO COST TO THE DEPARTMENT.

A QUANTITY OF 259 POUNDS HAS BEEN INCLUDED IN THE PLANS FOR PAYMENT.

ITEM 511 CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK, AS PER PLAN:

THE CONCRETE QUANTITY FOR ABUTMENT DIAPHRAGMS SHALL BE INCLUDED WITH DECK CONCRETE FOR PAYMENT.

				ESTIMATED QUANTITIES
ITEM	EXT.	QUANTITY	UNIT	DESCRIPTION
202	11203	LUMP	LUMP	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN
202	22900	39		APPROACH SLAB REMVOED
509	10000	25,881	POUND	EPOXY COATED REINFORCING STEEL
509	20001	259	POUND	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN
509	30030	2,176	FT	NO. 5 GFRP DEFORMED BARS
511	34447	66	CU YD	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK, AS PER PLAN
511	34448	70	CU YD	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)
512	10100	253	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
516	13600	19	SQ FT	1" PREFORMED EXPANSION JOINT FILLER
516	13900	19	SQ FT	2" PREFORMED EXPANSION JOINT FILLER
518	12300	10	EACH	SCUPPERS, INCLUDING SUPPORTS
526	25000	39	SQ YD	REINFORCED CONCRETE APPROACH SLABS (T=15″)
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847	50000	70	SQ YD	HAND CHIPPING
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ABBREVIATIONS: ABUT ABUTMENT A.S APPROACH SLAB BRG BEARING C/C - CENTER TO CENTER C.J CONSTRUCTION JOINT C.I.P CAST-IN-PLACE CONC CONCRETE CONST CONSTRUCTION DIA DIAMETER EL ELEVATION EX EXISTING EXP EXISTING EXP EXPANSION F.A FORWARD ABUTMENT F/F - FACE TO FACE FWD FORWARD IN INCH L.F LEFT FORWARD LT LEFT MID MIDDLE MIN MINIMUM NB - NORTHBOUND PROP PROPOSED R.A REAR ABUTMENT												
RT RIGHT SB - SOUTHBOUND SDC - SUPERPLASTICIZED DENSE CONCRETE SPA SPACES STA STATION SUPER SUPERSTRUCTURE T/T - TOE TO TOE TYP TYPICAL VERT VERTICAL W/ - WITH												
CHECKE	ATED BY: MMS D BY: JGM BUT. SUPER. LUMP 39 25,881 259 2,176			2/14/2021 SHEET NO. 2/9 2/9	-	GENERAL NOTES & BRIDGE N SR 315 OVER						
	66 70 7 246 19 19 19 10 30			2/9		FRA-315-04.15 PID No. 114985						
	<i>39</i> 70 70				-	2/9						