

DESCRIPTION	SEE	L CULA TED	HECKED
	SHEET	C G L	MCK

DESCRIPTION	SEE SHEET NO.	CALCULAT CGL CHECKEI MCK
DRAINAGE		
N OUTLETS		
ND 6" WEIR		
UTLET RUCTURE, TYPE 1		
PAVEMENT		۲۶
(449)		IMAF
RSE, TYPE 1, (449), PG64-22		SUN
COURSE, TYPE 2, (449) EMENT, CLASS QC MS		GENERAL SUMMARY
	3	ENE
WATER WORK		G
LIGHTING		
TAPE		
		1.42
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		C.R.
		HAM-C.R. 23 - 1.42
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REF NO.	SHEET NO.	STAT	TION	SIDE	OFFSET	ELEVATION	CRETE BLOCK H TYPE 2 'MENT	CONCRETE MASONRY	SIFIED PIPE AINS	IPE AINS	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	CONDUIT, TYPE B	ЛТ, ТҮРЕ С	SIN, NO. 2-2B	2-A-6	. 2-A-8	NO. 3
					0	ELE	TIED CONCRETE B MAT WITH TYPE 2 UNDERLAYMENT	CONCRETE	6" UNCLASSIFIED UNDERDRAINS	6" BASE PIPE UNDERDRAINS	6" CONDUI	12" CONDL	12" CONDUIT,	CATCH BASIN, NO.	INLET, NO.	INLET, NO.	MANHOLE, NO. 3
		FROM	TO				SY	CY	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH
D-1	18	1+59.00	2+39.31								(Y Y Y	68	1			
D-2 D-3	18 18	3+75						0.01			10	14	1			1	
D-3 D-4	18	3+75.00 3+75.00	3+88.15 6+50.00					0.21			10	275	19		1		
D-4 D-5	19	10+23.00	10+50.00					0.21			10	215	30				1
53	10	10123.00	10100.00					0.21									· ·
D-6	20	10+50.00	11+75.00								10	13	128		1		1
D-7	20	11+75.00	13+50.00								10	13	175		1		1
		-	_														
E-1	19	7+86.00	7+91.50				35.7										
E-2	19	10+37.00	10+42.50				31.8										
UD-1	18	2+25.36	3+72.41	LT	27.4	584.28			15	125	10						
UD-2	18	3+75.00	6+47.50	LT	12.0	589.90				273							
UD-3	19	6+50.00	7+88.60	LT	12.0	600.37				144							
UD-4	19	10+39.41	11+75.00	LT	12.0	600.54				141							
UD-5	20	11+81.75	13+50.00	LT	12.0	594.44				173							
UD-6	20	13+56.75	16+50.00	LT	21.0	584.27				294	25						
UD-6 UD-7	20	20+44.67	20+59.33		31.0 35.4	575.76				294	25						
UD-8	21	20+83.75	20+98.26	LT	38.5	575.64				30							
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TOT	ALS CARRIED	TO GENERAL SU	JMMARY				67	0.42	15	1205	75	315	420	1	3	1	3
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	611	611	836	895	BEN	DS &	CALCULATED CGL CGL MCK
	MANHOLE, NO. 3 WITH 84" Q BASE I.D. AND 6" WEIR	e.	SEEDING AND EROSION 9, 2 CONTROL W/ TURF REINFORCING MAT, TYPE 1	ER	for info	CHES rmation ly)	CALO CALO CALO
	WITH	PRECAST REINFORCED CONCRETE OUTLET	SEEDING AND EROSION CONTROL W/ TURF REINFORCING MAT, TYP	MANUFACTURED WATER D QUALITY STRUCTURE, TYPE 1	on	ly)	
	0. 3 D 6"		D ER TUR G MA	RED		0	
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GENERAL NOTES: STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS:

REFERENCE SHALL BE MADE TO THE FOLLOWING STANDARD BRIDGE DRAWINGS:

I LNLNUL JNALL	DL MADL IU	THE TOLLOWING
GSD-1-19	DATED	1/15/21
BR-2-15	DATED	1/21/22
RB-1-55	DATED	7/19/13
VPF-1-90	REVISED	7/20/18
EXJ-4-87	REVISED	1/19/18

DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO 9th EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATION" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020 AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

DESIGN LOADING:

PEDESTRIAN LIVE LOAD: 90 POUNDS PER SQUARE FOOT.

DESIGN DATA:

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CONCRETE, QC/QA CLASS QC2 - COMPRESSIVE STRENGTH 4500 PSI (SUPERSTRUCTURE) CONCRETE, QC/QA CLASS QC2 - COMPRESSIVE STRENGTH 4500 PSI (PARAPET) CONCRETE, CLASS QC1 - COMPRESSIVE STRENGTH 4000 PSI (SUBSTRUCTURE) REINFORCING STEEL - ASTM A615 OR A996, GRADE 60, MINIMUM YIELD STRENGTH 60000 PSI STRUCTURAL STEEL - ALL NEW STEEL, ASTM A709 GRADE 50, YIELD STRENGTH 50000 PSI. EXISTING STEEL, ASTM A570, YIELD STRENGTH 33000 PSI

DECK PROTECTION METHOD:

EPOXY COATED REINFORCING STEEL

CONCRETE COVER

2½2″ CONURETE UOVER 2½2″ MICRO-SILICA MODIFIED CONCRETE OVERLAY (OVER EXISTING)

MONOLITHIC WEARING SURFACE:

IS ASSUMED, FOR DESIGN PURPOSES, TO BE 1 INCH THICK.

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 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.

EXISTING BRIDGE PLANS:

EXISTING BRIDGE PLANS CAN BE VIEWED AT ODOT DISTRICT 8 OFFICE.

PROPOSED WORK:

THE FOLLOWING IS A GENERAL SUMMARY OF THE PROPOSED WORK FOR THIS STRUCTURE: INCIDENTAL ITEMS ARE NOT INCLUDED.

- 1. WIDEN EXISTING ABUTMENTS TO ACCOMODATE A 7'-O" PEDESTRIAN WALKWAY ON THE WEST SIDE.
- ADD NEW CAP AND COLUMN PIERS TO ACCOMODATE ONE ADDITIONAL BEAM LINE.
- 3. ADD NEW ROCKER AND BOLSTER BEARINGS TO SUPPORT NEW BEAM LINE. 4. ADD ONE CONTINUOUS STEEL BEAM LINE.
- DOWEL INTO EXISTING DECK ON THE WEST SIDE AND WIDEN DECK FOR NEW PEDESTRIAN WALKWAY.
- 6. INSTALL NEW BRIDGE SIDEWALK RAILING AND 12' CURVED VANDAL PROTECTION FENCE.
- REMOVE EXISTING VANDAL PROTECTION FENCE ON THE WEST SIDE OF THE BRIDGE.
- SEAL ABUTMENTS, NEW PIER COLUMNS, NEW PIER CAP EXTENSION, NEW BRIDGE PARAPET, EDGE OF DECK WITH AN EPOXY-URETHANE.
 SEAL AND SIDEWALK WITH NON-EPOXY SEALER.

INSPECTION OF EXISTING STRUCTURAL STEEL:

THE ENGINEER WILL VISUALLY INSPECT ALL EXISTING BUTT-WELDED SPLICES AND/OR TOP FLANGE MOMENT FILLET WELDS TO ENSURE THE WELDS, PLATES AND BEAMS 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, BRIDGE DECK CONCRETE. 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.

ITEM 202. PORTIONS OF STRUCTURE REMOVED. OVER 20 FOOT SPAN. AS PER PLAN:

- A. THIS WORK CONSISTS OF THE REMOVAL OF PORTIONS OF THE CONCRETE PIER CAPS, AND ABUTMENT CURTAIN WALLS. 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 CMS 501.05.
- B. SUBSTRUCTURE CONCRETE REMOVAL: REMOVE CONCRETE BY MEANS OF APPROVED PREUMATIC HAMMERS EMPLOYING POINTED AND BLUNT CHISEL TOOLS. HYDRAULIC HOE-RAM TYPE HAMMERS WILL NOT BE PERMITTED. THE WEIGHT OF THE HAMMER SHALL NOT BE MORE THAN 35 POUNDS FOR REMOVAL WITHIN 18 INCHES OF PORTIONS TO BE PRESERVED. OUTSIDE THE 18 INCH LIMIT, THE CONTRACTOR MAY USE HAMMERS NOT EXCEEDING 90 POUNDS UPON THE APPROVAL OF THE ENGINEER. DO NOT PLACE PNEUMATIC HAMMERS IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE.
- C. 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 ABRÁSIVELY 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 ALL PACK AND LOOSE RUST. THOROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING NEW CONCRETE.
- D. 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, OVER 20 FOOT SPAN, AS PER PLAN.

ITEM 601 - CRUSHED AGGREGATE SLOPE PROTECTION, AS PER PLAN:

THE THICKNESS FOR CRUSHED AGGREGATE SLOPE PROTECTION SHALL BE 1'-O" MINIMUM. THE EXISTING STONE MATERIAL SHALL BE REUSED AND PLACED AS SHOWN ON SHEET SI/SIS ACCORDING TO 601.06 AND PLACED ONLY IN AREAS WHERE NEEDED OR AS DIRECTED BY THE ENGINEER. ADDITIONAL MATERIAL AND FILTER FABRIC WILL BE NECESSARY. THE ESTIMATED QUANTITY IS PER SQUARE YARD AND IS CALCULATED BASED ON AN ESTIMATED REPAIR AREA OF 48 SQUARE YARDS.

PILE DRIVING:

THE MINIMUM RATED ENERGY OF THE HAMMER USED TO INSTALL THE PILES SHALL BE (1) FOOT-POUNDS. ENSURE THAT STRESSES IN THE PILES DURING DRIVING DO NOT EXCEED (2) POUNDS PER SQUARE INCH.

DECK PLACEMENT 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. A MINIMUM OUT-TO-OUT WHEEL SPACING AT EACH END OF THE MACHINE OF 103". A MAXIMUM SPACING OF OVERHANG FALSEWORK BRACKETS OF 48 IN. A MAXIMUM DISTANCE FROM THE CENTERLINE OF THE FASCIA GIRDER TO THE FACE OF THE SAFETY HANDRAIL OF 65".

ITEM 503 - COFFERDAMS AND EXCAVATION BRACING. AS PER PLAN

THE DESIGN SHOWN ON THE PLANS FOR TEMPORARY SUPPORT OF EXCAVATION IS ONE CONTRACTOR MAY CONSTRUCT THE DESIGN SHOWN ON THE PLANS OR PREPARE AN ALTERNATE DESIGN TO SUPPORT THE SIDES OF EXCAVATION. IF CONSTRUCTING AN ALTERNATE DESIGN FOR TEMPORARY SUPPORT OF EXCAVATION, FREPARE AND PROVIDE PLANS IN ACCORDANCE WITH C&MS 501.05. THE DEPARTMENT WILL PAY FOR THE TEMPORARY SUPPORT OF EXCAVATION AT THE CONTRACT LUMP SUM PRICE FOR COFFERDAMS AND EXCAVATION BRACING. AS PER PLAN. THE DEPARTMENT WILL NOT MAKE ADDITIONAL PAYMENT FOR PROVIDING AN ALTERNATE DESIGN.

PILE DESIGN LOADS (ULTIMATE BEARING VALUE):

THE ULTIMATE BEARING VALUE IS 59.0 KIPS PER PILE FOR THE REAR ABUTMENT AND FORWARD ABUTMENT PILES. THE ULTIMATE BEARING VALUE IS 146 KIPS PER PILE FOR THE PIER 1, PIER 2 AND PIER 3 PILES.

REAR AND FORWARD ABUTMENT, 12" DIA. CIP PILES 10 PILES 25 FEET LONG, ORDER LENGTH PER ABUTMENT 1 DYNAMIC LOAD TESTING FOR REAR ABUTMENT

PIER 1 AND 3. 12" DIA. CIP PILES 8 PILES 20 FEET LONG, ORDER LENGTH PER PIER

4 PILES 15 FEET LONG, ORDER LENGTH 1 DYNAMIC LOAD TESTING FOR PIER 2

PIER 2, 12" DIA. CIP PILES

ITEM 513 - STRUCTURAL STEEL MEMBERS. LEVEL UF. 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 **RIN** DEPARTMENT WILL NOT REQUIRE THE CONTRACTOR PERFORMING FIELD FABRICATION TO BE PRE-QUALIFIED AS SPECIFIED IN SUPPLEMENT 1078. SUBMIT A WRITTEN LETTER OF DE FRE-GOALIFIED AS SFECIFIED IN SUFFEEMENT 1076. SUBMIT A WATTEN 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. IF NECESSARY, 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 AND DATED, ALONG WITH MICROFILM, TO THE OFFICE OF STRUCTURAL ENGINEERING FOR RECORD PURPOSES. THE FOLLOWING MEMBERS ARE INCLUDED IN THIS ITEM: PROPOSED EXPANSION JOINT MOUNTING ARMOR, AND PROPOSED END CROSS FRAMES, AND INTERMEDIATE CROSSFRAMES. ITEM 519 - PATCHING CONCRETE STRUCTURES. AS PER PLAN: 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 REINFORCING STEEL. ACCEPTABLE METHODS INCLUDE HIGH-PRESSURE WATER BLASTING WITH OR WITHOUT ABRASIVES IN WATER, ABRASIVE BLASTING WITH CONTAINMENT, OR VACUUM ABRASIVE BLASTING. THE PATCH IS BEING MADE TO SMOOTH THE SURFACE OF THE BARRIER. EVEN THOUGH THE EXISTING CONCRETE IS NOT DISINTEGRATED, REMOVE THE FACE OF THE EXISTING BARRIER TO BELOW THE EXISTING REINFORCING STEEL (4" MIN.). REINFORCE WITH WIRE AND BLAST CLEAN PER ITEM 519 BEFORE POURING THE CLASS QC5 CONCRETE. DECK SLAB PAY QUANTITIES: THE ESTIMATED QUANTITY OF DECK SLAB CONCRETE IS BASED ON A CONSTANT DEPTH SLAB THICKNESS, AS SHOWN, PLUS THE QUANTITY OF CONCRETE THAT FORMS EACH BEAM HAUNCH. THE ESTIMATE ASSUMES A CONSTANT BEAM HAUNCH DEPTH OF 2" AND A HAUNCH WIDTH EQUAL TO THE TOP FLANGE WIDTH. DEVIATE FROM THIS HAUNCH THICKNESS AS NECESSARY TO PLACE THE DECK SURFACE AT FINISHED GRADE. THE HAUNCH THICKNESS WAS MEASURED AT THE CENTERLINE OF THE BEAM FROM THE SURFACE OF THE DECK TO THE BOTTOM OF THE TOP FLANGE MINUS THE DECK SLAB THICKNESS. THE AREA OF ALL EMBEDDED STEEL PLATES HAS BEEN DEDUCTED FROM THE HAUNCH QUANTITY IN ACCORDANCE WITH 511.23. 0230 ITEM 516 - JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN: RALVNO. THIS WORK CONSISTS OF TEMPORARILY SUPPORTING THE EXISTING STRUCTURES TO CUT THE PIER CAPS UNDER THE EXISTING BEARINGS IN ORDER TO EXTEND THE CAPS AS SHOWN HAM-OVER IN THESE PLANS. SUBMIT CONSTRUCTION PLANS IN ACCORDANCE WITH CMS 501.05. N0. 23 DURING THE JACKING OPERATIONS, CRACKING OF THE CONCRETE SUPERSTRUCTURE, BRIDGE C.R. SEPARATION OF THE CONCRETE DECK FROM THE STELL STRINGERS, OR OTHER DAMAGE TO THE STRUCTURE IS VISUALLY OBSERVED, IMMEDIATELY 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 THE DISTANCE OF THE SEPARATION IN ACCORDANCE WITH CMS 512.07. THE DEPARTMENT WILL NOT PAY FOR THE COST OF THIS EPOXY INJECTION OR OTHER REQUIRED REPAIRS. THE BRIDGE BEARINGS SHALL BE FULLY SEATED AT 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 A 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. STANDARD ABBREVIATIONS: CENTER TO CENTER C/C _ ۰**4**2 ISTRUCTION JOINT PRUGATED PLASTIC PIPE 23-1. ΔR METER 37 H FACE Ě TING PID: FACE Ö WARD ABUTMENT HAM 'TMI IM ТМІЛ R FACE SIDE DIAMETER FORMED EXPANSION JOINT FILLER S2/S1 R ABUTMENT CING/SPACES TCAL 56

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O.D.	-	OUT.
PEJF	-	PREF
R.A.	-	REAF
SPA.	-	SPAC
TYP.	-	TYP

			ESTIMATED QUANTITIES			-	CALC. HM	DATE 01/28/22	PART.	PART.
ITEM	ITEM EXT.	UNIT	DESCRIPTION	ABUTMENTS	PIERS	SUPERSTR.	GENERAL	TOTAL	01/SAF/O T	02/SAF/O T
202	11203	LUMP	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LS			LS
503	11101	LS	COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN							LS
503	21100	 CY	UNCLASSIFIED EXCAVATION	42	73		LS	115		115
000	21100	01		72	15			110		115
507	00500	FT	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	200	160			360		360
507	00550	FT	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	250	220			470		470
	10.0.0			7004	0105	00750		40047		100.17
509	10000	LB	EPOXY COATED REINFORCING STEEL	3904	8185	28758		40847		40847
510	10000	EA	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	50	42	914		1006		1006
511	34446		CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK			57		57		57
511	34450		CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)			29		29		29
511	41012		CLASS QCI CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS		24			24		24
511	44112		CLASS QCI CONCRETE WITH QC/QA, ABUTMENT NOT INCLUDING FOOTING	19				19		19
511	46512	СҮ	CLASS QCI CONCRETE WITH QC/QA, FOOTING	13	20			33		33
<i></i>	10.050	<u></u>				170		175		175
512	10050	SY SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)		70	175		175		175 292
512	10100	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	46	76	170		292		
512	33000	SY	TYPE 2 WATERPROOFING	6				6		6
513	10201	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN			9586		9586		9586
513	10240	LB	STRUCTURAL STEEL MEMBERS, LEVEL 2			35024		35024		35024
513	20000	EACH	WELDED STUD SHEAR CONNECTORS			843		843		843
516	11211	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN	17				17		17
516	13600	SF	1" PREFORMED EXPANSION JOINT FILLER	20		25		45		45
516	46000	EACH	BEARING DEVICE, BOLSTER		1			1		1
576	45200	YEARTY	BEARWIT DE WICE X ROOKER Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	YZY	\sim	\sim	\sim	\sim	
516	47001	LUMP	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN				LUMP			LUMP
518	21200	Jer	porois backfile with deotextile habric	γ_{4}	\sum	\mathcal{N}		MALL AND		
518	40000	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	23				23		23
518	40010	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	31				31		31
519	60000	LS	SPECIAL - PATCHING CONCRETE STRUCTURE			LS		LS		LS
523	20000	EACH	DYNAMIC LOAD TESTING	1	1			2		2
<u> </u>	20000	CV		10				10		40
601	20000	SY	CRUSHED AGGREGATE SLOPE PROTECTION	48				48		48
607	39930	FT	VANDAL PROTECTION FENCE, 12' CURVED, COATED FABRIC			224		224		224
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				1						

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