SHEET NUM.										l 0==:==	PART. ITEM			ITEM			UNIT DESCRIPTION			
4	5		13	14	15	24	29		50	OFFICE CALCS	01/CMQ/04	02/BRF/11	112	EXT	TOTAL	01121		SHEET NO.	CALCULA	
						1											ROADWAY		4	
LS											LS		201	11000	LS		CLEARING AND GRUBBING		-	
			4								4		202	20010	4		HEADWALL REMOVED		4	
			60			277				967	1,244		202	23000	1,244		PAVEMENT REMOVED		4	
			60 56								60 56		202 202	32500 32800	60 56		CURB AND GUTTER REMOVED CONCRETE SLOPE PROTECTION REMOVED		\dashv	
			42								42		202	35100	42		PIPE REMOVED, 24" AND UNDER		1	
			21								21		202	35200	21		PIPE REMOVED, OVER 24"		4	
			180								180		202 202	38000 42001	180 1		GUARDRAIL REMOVED ANCHOR ASSEMBLY REMOVED, TYPE A, AS PER PLAN	4	-	
			LS								LS		202	98000	LS	LACIT	REMOVAL MISC.: FIREPLACE	4	\exists	
			LS								LS		202	98000	LS		REMOVAL MISC.: DRIVEWAY BOX CULVERT STRUCTURE	4		
																			7	
					127						127		203	10000	127		EXCAVATION AS PER PLAN		4	
					109 1,205	1					109 1,205		203 203	10001 20000	109 1,205		EXCAVATION, AS PER PLAN EMBANKMENT	5	\dashv	
+					109	1					109		203	20001	109		EMBANKMENT, AS PER PLAN	5	\dashv	
											25		203	98000	25		ROADWAY, MISC.: STRUCTURAL BACKFILL, TYPE 1	4	\Box	
						200				4.000	0.000		20.1	40000	0.000	0)/	CUIDODADE COMPLOTION		4	
						300				1,966	2,266 40		204 204	10000 13000	2,266 40		SUBGRADE COMPACTION EXCAVATION OF SUBGRADE		\dashv	
											40		204	20000	40		EMBANKMENT EMBANKMENT		┨	
											1		204	45000	1	HOUR	PROOF ROLLING			
											60		204	50000	60	SY	GEOTEXTILE FABRIC		4	
			400								400		606	15050	400	FT	CHADDDAIL TYPE MCS		\dashv	
			1								1		606	26050	1		GUARDRAIL, TYPE MGS ANCHOR ASSEMBLY, MGS TYPE B		\dashv	
\top			3								3		606	26550	3		ANCHOR ASSEMBLY, MGS TYPE T		٦	
																			1	
						1			1		1		623	38500	1	EACH	MONUMENT ASSEMBLY, TYPE C		4	
			4								4		SPECIAL	69050100	4	EACH	MAILBOX SUPPORT SYSTEM, SINGLE	5	1	
											1.0		070	05000	1.0		INCRECTION AND COMPACTION TESTING OF UNDOUND MATERIALS		4	
											LS		878	25000	LS		INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS EROSION CONTROL		+	
																			1	
			6								6		601	11000	6	SY	RIPRAP, TYPE D		1	
											0		CEO	00400	0	FACIL	COLLANAL VOIC TECT		4	
0						1					300		659 659	00100 00300	300	EACH CY	SOIL ANALYSIS TEST TOPSOIL		┨	
5											2,695		659	10000	2,695		SEEDING AND MULCHING		┪	
1											0.4		659	20000	0.4	TON	COMMERCIAL FERTILIZER		コ	
\perp													050	04000		4005	Linus.		4	
-						+					0.6 15		659 659	31000 35000	0.6 15		LIME WATER		┨	
<u> </u>											10		000	00000	10	WICHE			┨	
			49								49		670	00700	49	SY	DITCH EROSION PROTECTION		4	
											21,000		832	30000	21,000	EACH	EROSION CONTROL		+	
																	DRAINAGE		7	
				1.01							1.01		602	20000	1.01	CY	CONCRETE MASONRY		\exists	
)9											400		005	04400	400		ACCOPECATE DDAING		4	
+											109		605	31100	109	FT	AGGREGATE DRAINS		┨	
	050						100				100		611	00400	100		4" CONDUIT, TYPE B		4	
	250 250										250 250		611 611	00900 01100	250 250		6" CONDUIT, TYPE B 6" CONDUIT, TYPE C		\dashv	
	100										100		611	01500	100		6" CONDUIT, TYPE F		_	
\bot													241	0.100			LOW CONDITION TWO TO		4	
				5 72	-	-					5 72		611	04600 { 06400 }	5 72		12" CONDUIT, TYPE C REV. DATE DESCRIPTION 15" CONDUIT, TYPE D R1 2-3-23 UPDATED SIZE OF CONDUIT		\dashv	
-				12	+	+	1			1	12		611 <u>/</u> Ri\	00400	12	FI	15" CONDUIT, TYPE D R1 2-3-23 UPDATED SIZE OF CONDUIT		+	
				169							169		611	53100	169		43" X 68" CONDUIT, TYPE A, 706.04			
_				101	_						101		611	53200	101		48" X 76" CONDUIT, TYPE A, 706.04		十	
				15 1	-	1				-	15		611 611	97400 98470	15 1		CONDUIT, MISC.: 3" ROOF DRAIN CATCH BASIN, NO. 2-2B	4]	

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 SHEET NUM.										PA	RT.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET
	13	14			24	27		OFFICE CALCS		01/CMQ/04	02/BRF/11	11211	EXT	TOTAL	01111		NO.
																PAVEMENT	
								240		240		301	FC000	240	CV	ACRUALT CONCRETE BACE, DCC4 22 (440)	
								312		312		301	56000	312	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
					50			319		369		304	20000	369	CY	AGGREGATE BASE	
								111		111		407	20000	111	GAL	NON-TRACKING TACK COAT	
												107			0,12		
			+		7			64 90		71 90		441 441	70000 70300	71 90	CY CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)	
								90		30		441	70300	90	01	ASITIALI CONCILIL INTLINVILDIATE COURSE, TITE 2, (449)	
					216					216		452	10010	216	SY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
	10		+ +							10		609	12000	10	FT	COMBINATION CURB AND GUTTER, TYPE 2	
			+														
																WATER WORK	
		4								1		202	75610	1	EACH	VALVE BOX REMOVED	
		1	+ +							1		202	75610	1	EACH	VALVE BOX REMOVED	
		15 168								15 168		638 638	00700 02500	15 168	FT FT	6" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, MECHANICAL JOINTS AND FITTINGS 12" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, MECHANICAL JOINTS AND FITTINGS	
		100								100		638	04800	100	FT	3/4" COPPER SERVICE BRANCH	
		60	+							60		638	06708	60	FT	24" STEEL PIPE ENCASEMENT, OPEN CUT	
		1								1		638	08620	1	EACH	12" INSERTING VALVE AND VALVE BOX	
		2	+ +							2		638 638	10600 10900	2	EACH EACH	FIRE HYDRANT AND GATE VALVE REMOVED AND RESET SERVICE BOX ADJUSTED TO GRADE	
		1								1		638	11100	1	EACH	METER AND CHAMBER REMOVED AND RESET	
			+														
			+ +													TRAFFIC CONTROL	
						0				0		004	00400	0	EAGU	DDM	
			+			2 2				2		621 621	00100 54000	2 2	EACH EACH	RPM RAISED PAVEMENT MARKER REMOVED	
	12									12		626	00110	12	EACH	BARRIER REFLECTOR, TYPE 2 (BIDIRECTIONAL)	
						88				88		630	03100	88	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
						2				2		630	08600	2	EACH	SIGN POST REFLECTOR	
			+ +			36				36		630	80100	36	SF	SIGN, FLAT SHEET	
						8				8		630	84900	8	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
						6				6		630 630	85100 86002	6	EACH EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
						2				2		630	86272	2	EACH	REMOVAL OF GROUND MOUNTED PIPE SUPPORT AND DISPOSAL	
						0.45				0.15		644	00100 6	0.15	NAIL E	EDOE LINE AT (AMUTE)	
					<u>/R1\</u>	0.15			<u>/R1\</u> {	0.15		644 644	00100 /R 00300	0.15	MILE MILE	EDGE LINE, 4" (WHITE) CENTER LINE (DOUBLE YELLOW)	
						229				229		644	00400	229	FT	CHANNELIZING LINE, 8"	
						169				169		644	00500	169	FT	STOP LINE	
						160				160		644	00700	160	FT	TRANSVERSE/DIAGONAL LINE (YELLOW)	
						6				6		644	01300	6	EACH	LANE ARROW	
			+ +			155				155		644	01510	155	FT	DOTTED LINE, 6"	
						20				20		644	30000	20	FT	REMOVAL OF PAVEMENT MARKING	
			+			3				3		644	30020	3	EACH	REMOVAL OF PAVEMENT MARKING REV. DATE DESCRIPTION	
																R1 2-3-23 UPDATED QUANTITY	
 1	1	l						1			I	I	1				

		SHEET NUM.						PA	RT.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION		
		6	7			41		01/CMQ/04 02/BRF/11	EXT	TOTAL	UNII	DESCRIPTION				
														STRUCTURE OVER 20 FOOT SPAN (SFN: 8360546)		-
						LS			LS	202	11002	LS	0)/	STRUCTURE REMOVED, OVER 20 FOOT SPAN		1
						86			86	202	23500	86	SY	WEARING COURSE REMOVED		-
						LS			LS LS	503 503	11100 21300	LS LS		COFFERDAMS AND EXCAVATION BRACING RIVER UNCLASSIFIED EXCAVATION		-
_																_
\subset						11,044			11,044	509	10000	11,044	LB	EPOXY COATED STEEL REINFORCEMENT		4
						81			81	511	46510	81	CY	CLASS QC1 CONCRETE, FOOTING		1
						77 8			77 8	511 511	46610 50210	77 8	CY CY	CLASS QC1 CONCRETE, HEADWALL CLASS QC1 CONCRETE, SUBSTRUCTURE		-
						400			400	540	40400	100	CV			1
						100 185			100 185	512 512	10100 33000	100 185	SY SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) TYPE 2 WATERPROOFING		1
						285			285	512	33010	285	SY	TYPE 3 WATERPROOFING		-
\supset						102			102	516	13600	102	SF	1" PREFORMED EXPANSION JOINT FILLER		∦ ≿
						18			18	<i></i>	21201	<u>/</u> Ri	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC, AS PER PLAN	41	∤ ₹
											•				.,	O M M
7						51 55			51 55	601 601	32100 34100	51 55	CY CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER ROCK CHANNEL PROTECTION, TYPE B WITHOUT FILTER		∤ ≥ ⊃
>0															44	၂ ပ
+						80			80	611	70001	80	FT	CONDUIT, TYPE A, PRECAST REINFORCED CONCRETE THREE SIDED FLAT TOPPED CULVERT, AS PER PLAN (28'-0" SPAN x 8'-0" RISE)	41	┨
≥ A																R A
9:50														MAINTENANCE OF TRAFFIC		Ш
23		20						20		410	12000	20	CY	TRAFFIC COMPACTED SURFACE, TYPE A OR B		Z
.02/2																GE
2		60 LS						60 LS		614 614	11110 12420	60 LS	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE DETOUR SIGNING		-
+		10 16						10 16		614 614	13000 18600	10 16	CY SNMT	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC PORTABLE CHANGEABLE MESSAGE SIGN		1
5		10						10		014	10000	10	SINIVI	FOR TABLE CHAINGEABLE MESSAGE SIGN		_
4.dar		30						30		616	10000	30	MGAL	WATER		-
9000		180						180		622	41100	180	FT	PORTABLE BARRIER, UNANCHORED		_
) 224																4
.90I\														INCIDENTALS		1
0 + 0 S		LS	LS					LS		614	11000	LS		MAINTAINING TRAFFIC		_
Sh																-
																1
Roac								LS		623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING		4
,ian	h							LS		624	10000	LS		MOBILIZATION		╆
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R123.																5.55
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3C+D			_	<u> </u>												│
ر 6																A
0T\P														REV. DATE DESCRIPTION R1 2-2-23 ADDED QUANTITY FOR COFFERDAMS AND EXCAVATION BRACING.		┨⋛
4\0Di														CHANGED UNIT AND ITEM EXTENSION OF POROUS BACKFILL.		1 −
10554																—
8//8/																12 57
0				1												$-1\sqrt{57}$

DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO THE 8TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2017 AND THE ODOT BRIDGE DESIGN MANUAL, 2019.

OPERATIONAL IMPORTANCE:

A LOAD MODIFIER OF 1.0 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL. 2019.

DESIGN LOADING:

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BRIDGE UNITS: HL-93 AND FUTURE WEARING SURFACE (FWS) OF 60 PSF HEADWALLS: EARTH PRESSURE + LIVE LOAD SURCHARGE

DESIGN DATA:

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI (HEADWALL, CULVERT FOOTING, AND PEDESTAL

REINFORCING STEEL -MINIMUM YIELD STRENGTH 60 KSI (EPOXY COATED)

PRECAST STRUCTURES - FOR PRECAST REINFORCED THREE SIDED STRUCTURES, SEE CMS SECTION 611

FOUNDATION BEARING RESISTANCE:

CULVERT FOOTINGS, AS DESIGNED, PRODUCE A MAXIMUM SERVICE LIMIT STATE BEARING PRESSURE OF 1.06 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LIMIT STATE BEARING PRESSURE OF 1.49 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 4.0 KIPS PER SQUARE FOOT.

HEADWALL FOOTINGS, AS DESIGNED, PRODUCE A MAXIMUM SERVICE LIMIT STATE BEARING PRESSURE OF 1.68 KIPS PER SOUARE FOOT AND A MAXIMUM STRENGTH LIMIT STATE BEARING PRESSURE OF 2.57 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 4.0 KIPS PER SQUARE FOOT.

THREE SIDED STRUCTURE WALL AND TOP SLAB THICKNESS:

THE WALL AND TOP SLAB THICKNESSES SHOWN IN THE PLANS WERE OBTAINED FROM THE MANUFACTURERS AT THE TIME THE PLANS WERE PREPARED. IF THE WALL AND/OR TOP SLAB THICKNESSES OF THE PROPOSED CULVERT ARE DIFFERENT FROM WHAT IS SHOWN IN THE PLANS, A MARKED COPY OF THE PROJECT PLANS, INCLUDING ALL PLAN NOTES AND DETAILS SHOWING ALL ITEMS AFFECTED BY THE DIFFERENT CULVERT DIMENSIONS, SHALL BE SUBMITTED FOR APPROVAL WITH THE SHOP DRAWINGS. ALL WORK REQUIRED TO ACCOMMODATE ANY REVISED DIMENSIONS SHALL BE AT NO EXTRA

<u> ITEM 518 - POROUS BACKFILL WITH GEOTEXTILE FABRIC, AS PER PLAN</u>

THEM 516 - PURUUS BACKFILL WITH GEVIENTILE FABRIC, AS FER FLAN 1'-6" THICK POROUS BACKFILL SHALL BE PLACED BEHIND THE HEADWALLS ONLY AND SHALL EXTEND TO 12" BELOW THE EMBANKMENT SURFACE OF THE FINISHED GROUND, GEOTEXTILE FABRIC TYPE D SHALL BE PLACED BETWEEN THE POROUS BACKFILL AND REPLACED EXCAVATION ADJACENT TO THE STRUCTURE, IT SHALL TURN UNDER THE BOTTOM OF THE POROUS BACKFILL AND RETURN 6" ABOVE THE TOP ELEVATION OF THE WEEPHOLE.

FORESLOPE WALL ANCHOR DOWELS:

ANCHOR PER CMS 510 WITH NONSHRINK, NONMETALLIC GROUT CONFORMING TO CMS 705.20 AND TO A DEPTH SPECIFIED IN THE PLANS. PAYMENT FOR DOWEL HOLES, GROUT, AND INSTALLATION SHALL BE INCLUDED WITH ITEM 511.

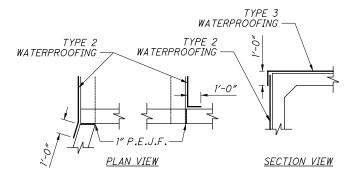
THREADED INSERTS OR NON-PROTRUDING MECHANICAL CONNECTORS CAPABLE OF DEVELOPING AT LEAST 125 PERCENT OF THE SPECIFIED YIELD STRENGTH OF THE REINFORCEMENT SHOWN ARE AN ACCEPTABLE ALTERNATIVE TO RESIN BONDING. MAINTAIN A MINIMUM COVER OF 3
INCHES AT THE BOTTOM OF THE CULVERT SLAB. MECHANICAL
CONNECTORS SHALL HAVE AN L-SHAPED BAR INSIDE THE CULVERT WITH A MINIMUM HORIZONTAL LENGTH OF 12 INCHES. THE DEPARTMENT WILL CONSIDER PAYMENT FOR INSERTS OR MECHANICAL CONNECTORS AS INCIDENTAL TO ITEM 611.

WATERPROOFING:

TYPE 2 WATERPROOFING, PER CMS 512 AND 711.25, SHALL EXTEND VERTICALLY DOWN THE ENTIRE SIDES OF THE PRECAST CULVERT SECTIONS FOR ALL PORTIONS OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL. APPLY TYPE 2 WATERPROOFING TO THE ENTIRE SIDE OF THE PEDESTAL WALL IN CONTACT WITH FILL FROM TOP OF FOOTING TO CULVERT. PAYMENT FOR THE MEMBRANE WATERPROOFING SHALL BE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR ITEM 512 - TYPE 2 WATERPROOFING.

IN ADDITION, TYPE 2 WATERPROOFING SHALL BE APPLIED ALONG THE JOINT BETWEEN THE PRECAST CULVERT UNIT AND THE CAST-IN-PLACE PEDESTAL INCLUDING BETWEEN THE JOINT PERIPHERY OF THE ELLIPTICAL PIPE AND THE PEDESTAL, AS SHOWN ON SHEETS 3 AND 8 OF 9.

TYPE 3 WATERPROOFING, PER CMS 512 AND 711.29 SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE PRECAST CULVERT SECTIONS AND SHALL EXTEND ONE FOOT VERTICALLY DOWN THE SIDES FOR ALL PORTIONS OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL. PAYMENT FOR THE MEMBRANE WATERPROOFING SHALL BE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR ITEM 512 -TYPE 3 WATERPROOFING.

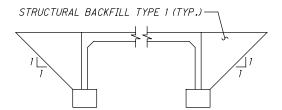


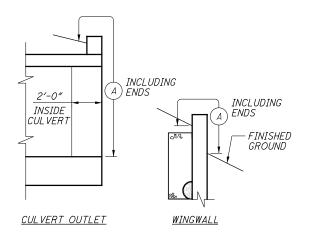
WATERPROOFING DETAILS

ITEM 611 - CONDUIT. TYPE A. PRECAST REINFORCED CONCRETE THREE SIDED FLAT TOPPED CULVERT (28' SPAN X 8' RISE), AS PER PLAN FOLLOW ALL REQUIREMENTS OF CMS 611 AND 706.051

STRUCTURAL BACKFILL TYPE 1 THAT MEETS THE GRADATIONS OF ITEM 304 SHALL BE PLACED AS SHOWN IN THE DETAIL BELOW. QUANTITY SHALL BE PLACED AS SHOWN IN THE DETAIL BELOW.

QUANTITY SHALL BE BASED ON A TRENCH LENGTH CONSISTING OF
THE LENGTH OF PAVEMENT PLUS 4 FEET OF ADDITIONAL LENGTH PER
SIDE, MEASURED ALONG THE CENTERLINE OF THE CULVERT. PAYMENT
FOR STRUCTURAL BACKFILL TYPE 1 AND THE EXCAVATION REQUIRED
FOR THE PLACEMENT OF THE STRUCTURAL BACKFILL SHALL BE INCLUDED WITH ITEM 611 FOR PAYMENT.





LIMITS OF 512 - SEALING CONCRETE SURFACES

- SEAL ENTIRE CONCRETE SURFACE AREA

ABBREVIATIONS:

CENTERLINE - DIAMETER - FLOWLINE

BOT. - BOTTOM CLR. - CLEAR, CLEARANCE CONST. - CONSTRUCTION CU. FT. - CUBIC FEET

CFS - CUBIC FEET PER SECOND CY - CUBIC YARDS

E.F. - EACH FACE EMBED. - EMBEDMENT EL. - ELEVATION - EDGE OF PAVEMENT

EQ. SPA. - EQUAL SPACES
F.F. - FAR FACE
FT. - FEET

HW - HIGH WATER
IN. - INCH
KSF - KIPS PER SO - KIPS PER SQUARE FOOT KSI - KIPS PER SQUARE INCH

LB. - POUNL LS - LUMP S LT. - LEFT - POUND - LUMP SUM MAX. - MAXIMUM MIN. - MINIMUM

N.F. - NEAR FACE OHWM - ORDINARY HIGH WATER MARK

P.E.J.F. - PREFORMED EXPANSION JOINT FILLER - PREFABRICATED RETAINING WALL SYSTEM

RT. - RIGHT SER. - SERIES SY - SQUARE YARDS STA. - STATION T&B - TOP AND BOTTOM T/FTG - TOP OF FOOTING TYP. - TYPICAL VAR. - VARIES W/ - WITH

ESTIMATED QUANTITIES **ITFM** ITEM EXT. TOTAL UNIT DESCRIPTION SHEET REF STRUCTURE REMOVED, OVER 20 FOOT SPAN 202 11002 23500 86 WEARING COURSE REMOVED 202 COFFERDAM AND EXCAVATION BRACING } 503 11100 LS 21300 UNCLASSIFIED EXCAVATION 503 LS 509 10000 11044 LB EPOXY COATED STEEL REINFORCEMENT 511 46510 CLASS QC1 CONCRETE, FOOTING 511 77 CLASS QC1 CONCRETE, HEADWALL 46610 511 50210 CLASS QC1 CONCRETE, SUBSTRUCTURE 512 10100 SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) 100 512 33000 185 SY TYPE 2 WATERPROOFING 512 285 TYPE 3 WATERPROOFING 33010 1" PREFORMED EXPANSION JOINT FILLER 516 13600 102 518 21201 POROUS BACKFILL WITH GEOTEXTILE FABRIC, AS PER PLAN 2/9 601 32100 51 CY ROCK CHANNEL PROTECTION, TYPE B WITH FILTER ROCK CHANNEL PROTECTION, TYPE B WITHOUT FILTER 601 34100 55 70001 80 CONDUIT, TYPE A, PRECAST REINFORCED CONCRETE 2/9 611 THREE SIDED FLAT TOPPED CULVERT (28' SPAN X 8' RISE). AS PER PLAN

ALL QUANTITIES ARE CARRIED TO THE ROADWAY GENERAL SUBSUMMARY.

REV.	DATE	DESCRIPTION
R1	2-2-23	COFFERDAM AND EXCAVATION BRACING ADDED

QUANTITIES 1.10 ESTIMATED C . WAR-BEAL-00.1 య

NOTES BRIDGE N

WAR-123-28.55 106224 ŝ

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