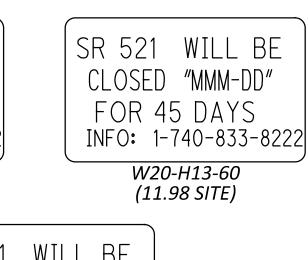
ITEM 614, MAINTAINING TRAFFI	C	ITEM 614, MAIN	TAINING TRAFFIC (C	CONTINUED)			ITEM 614, MAINTA	INING TRAFFIC (CONTINUED))
-	THE CONTRACTOR IN ACCORDANCE	<u>SPECIAL EVENTS</u> DELAWARE COUNTY FAIR – LANE OR SHOULDER CLOSURES ARE NOT PERMITTED DURING THE DELAWARE COUNTY FAIR 6AM-10PM DAILY ON THE FOLLOWING ROUTES:				THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN SCD MT-101.60 AT THE FOLLOWING LOCATIONS DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC:			
THE OHIO DEPARTMENT OF TRAI BUREAU OF TRAFFIC,	NSPORTATION	SR 521 BETWEEN	US 36 AND SR 61					THE WORK AREA FOR THE 10	22 SITE ON S P 521
1980 WEST BROAD STREET COLUMBUS, OHIO 43223			1E PERIODS, MAINT ESS WAS PRESENT F				- AT THE LIMITS OF	THE WORK AREA FOR THE 10 THE WORK AREA FOR THE 11 THE WORK AREA FOR THE 12	.38 SITE ON S.R 521
LISTED IN THE GENERAL SUMMA	RDER MATERIALS OR PERFORM WORK RY FOR ITEMS DESIGNATED BY PLAN BY THE ENGINEER" UNLESS AUTHORIZED	DELIVERIES, UNLI	OF TIME SHALL BE G ESS SUCH DELAYS A SUCH STRIKES ARE	RE INDUSTRY WIDE			THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND TYPE III BARRICADES OF THE TYPE AND LOCATION AS SHOWN ON THE DETOUR PLANS.		
ENGTH AND DURATION OF LAN E AT THE APPROVAL OF THE EN HE IMPACT TO THE TRAVELING ESTRICTIONS OVER SEGMENTS NTICIPATED WITHIN A REASONA HE ENGINEER, SHALL NOT BE PE	E CLOSURES AND RESTRICTIONS SHALL GINEER. IT IS THE INTENT TO MINIMIZE PUBLIC. LANE CLOSURES OR OF THE PROJECT IN WHICH NO WORK IS ABLE TIME FRAME, AS DETERMINED BY ERMITTED. THE LEVEL OF UTILIZATION OF CES SHALL BE COMMENSURATE WITH	THE CONTRACTO OF \$100 FOR EAC RESTRICTIONS AF BEFORE THE WOI ENGINEER THE N PERSONS WHO C DAY BY THE OHIO	RK BEGINS, THE COL AME(S) AND TELEP AN BE CONTACTED DEPARTMENT OF T	ED A DISINCENTIVE OVE DESCRIBED LAI NTRACTOR SHALL S HONE NUMBER(S) TWENTY-FOUR (24 TRANSPORTATION A	IN THE AMC NE CLOSURE UBMIT TO TH OF A PERSON) HOURS PER ND ALL	UNT HE I OR	ALL WORK AND TRA WITH C&MS 614 AI SPECIFICATIONS, AS CONTROL DEVICES. MATERIALS SHALL E	AFFIC CONTROL DEVICES SHA ND OTHER APPLICABLE PORTI S WELL AS THE OHIO MANUAL PAYMENT FOR ALL LABOR, EQ BE INCLUDED IN THE LUMP SU INTAINING TRAFFIC, UNLESS S	LL BE IN ACCORDANCE ONS OF THE L OF UNIFORM TRAFFIC QUIPMENT AND JM CONTRACT PRICE
	ALL NOT BEGIN UNTIL ALL TRAFFIC OVED BY ODOT PERSONNEL. THE	RESPONSIBLE FOI CONTROL DEVICE	CE AGENCIES. THIS R PLACING OR REPL S IN ACCORDANCE C CONTROL DEVICE	ACING NECESSARY WITH THE OHIO M	TRAFFIC		NOTIFICATION OF 1	TRAFFIC RESTRICTIONS	
CONTROL DEVICES FOR CONDITIC CONTRACTOR WILL BE ALLOWED DOES NOT COMPLY WITH THE ST	TO BEGIN WORK. IF THE CONTRACTOR ANDARDS, HIS PERMIT SHALL BE	NOTICE OF CLOSU CONTRACTOR PR	JRE SIGNS (W20-H1 IOR TO THE SCHEDU TH THE NOTICE OF	13) SHALL BE ERECT ULED ROAD CLOSUI	RE IN		SHALL NOTIFY THE RESTRICTIONS AND THE CONTRACTOR S	DURATION OF THE PROJECT, PROJECT ENGINEER IN WRITH UPCOMING MAINTENANCE SHALL ENSURE THE WRITTEN	NG OF ALL TRAFFIC OF TRAFFIC CHANGES. NOTIFICATION IS
REVOKED AND ALL WORK SHALL	RAFFIC IN EACH DIRECTION SHALL BE	ITEM DURA	ATION OF CLOSURE	SIGN DISPLA	YED TO PUB		TO MEET THE REQU	MELY MANNER TO ALLOW TH JIRED TIME FRAMES SET FORT	TH IN THE TABLE
AINTAINED AT ALL TIMES, EXCE	OR THE 10.32 SITE, 45 CONSECUTIVE	_	VEEKS	14 CALEND TO CLOSUR	AR DAYS PRIC	DR	(HAULING.PERMITS	1 THE SPECIAL HAULING PERN 5@DOT.OHIO.GOV) AND THE ICE (PIO). THIS NOTIFICATION	DISTRICT PUBLIC
ALENDAR DAYS FOR THE 11.98 S HE 12.75 SITE, WHEN THROUGH N SHEETS P.10-P.11. A DISINCE	SITE, AND 60 CONSECUTIVE DAYS FOR I TRAFFIC MAY BE DETOURED AS SHOWN NTIVE SHALL BE ASSESSED IN THE	CLUSURES	HOURS & < 2 WEEF HOURS	KS 7 CALENDA TO CLOSUR 2 BUSINESS	R DAYS PRIOI E DAYS PRIOR	?	THE PROJECT ENGI APPLICABLE SIGNS	NEER PRIOR TO THE PHYSICAL OR MESSAGE BOARDS.	SETUP OF ANY
CONTRATOR SHALL CLOSE BOTH SIMULTANEOUSLY. THE SIMULTAI 12.75 SITES SHALL STILL RESULT I CONSECUTUVE CALENDAR DAYS	DW CONTRACT TABLE ON THIS SHEET. THE 10.32 AND 12.75 WORK AREAS NEOUS CLOSURE OF THE 10.32 AND N A MAXIMUM CLOSURE OF 60 FOR THE 12.75 SITE ONLY.	FACING TRAFFIC. WITH THE VISIBIL ROADWAYS, THEY CLOSURE.	BE ERECTED ON TH THEY SHALL BE PLA ITY OF ANY OTHER SHOULD BE ERECT	ACED SO AS NOT TO TRAFFIC CONTROL TED AT OR NEAR TH	E OF THE RC INTERFERE SIGNS. ON E POINT OF	PAD	CONSTRUCTION AC TRAFFIC AND SHALL STATUS, DATE AND NUMBER OF LANES MINIMUM VERTICA PAVEMENT, DETOU	DULD INCLUDE, BUT IS NOT LII TIVITIES THAT IMPACT OR INT L LIST THE SPECIFIC LOCATION TIME OF RESTRICTION, DURA MAINTAINED, NUMBER OF L AL CLEARANCE, MINIMUM WI R ROUTES, IF APPLICABLE, AN DUESTED BY THE PROJECT ENG	TERFERE WITH I, TYPE OF WORK, ROAD TION OF RESTRICTION, ANES CLOSED, DTH OF DRIVABLE ID ANY OTHER
IN EACH DIRECTION SHALL BE MA CONSTRUCTION ACTIVITIES ARE I		FORMAT AND TH OF THE W20-H13 MAY CALL FOR AL OFFICE WITHIN T	DISPLAY THE DATE (E NUMBER OF DAYS SIGN LISTS A PHON DDITIONAL INFORM HE DISTRICT RATHE	S OF THE CLOSURE. NE NUMBER WHICH 1ATION. THIS IS TO	THE LAST LII I A MOTORIS BE A SPECIFIC	T	<u>ITEM</u> ROAD	DURATION OF CLOSURE >= 2 WEEKS	NOTICE DUE TO <u>PERMITS & PIO</u> 21 CALENDAR DAYS PRIOF
VERE AVAILABLE AT THE START C RAFFIC DURING THE FOLLOWIN EVENTS:						CLOSURES	> 12 HOURS & < 2 WEEKS <= 12 HOURS	TO CLOSURE 14 CALENDAR DAYS PRIOR TO CLOSURE 4 BUSINESS DAYS PRIOR	
NEW YEAR'S (OBSERVED) MEMORIAL DAY FOURTH OF JULY (OBSERVED) ABOR DAY	GENERAL/REGULAR ELECTION DAY (NON THANKSGIVING CHRISTMAS (OBSERVED)	FOR 90	MMM-DD"	SR 521 WIL CLOSED "MM FOR 45 DA INFO: 1-740-	M-DD″ AYS		LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS < 2 WEEKS	<i>TO CLOSURE 14 CALENDAR DAYS PRIOR TO CLOSURE 5 BUSINESS DAYS PRIOR</i>
	ANES ARE TO BE OPEN DEPENDS ON THE E HOLIDAY OR SPECIAL EVENT FALLS.		13-60	W20-H13- (11.98 SI7	60		START OF	N/A	TO CLOSURE
THE FOLLOWING SCHEDULE SHA	LL BE USED TO DETERMINE THIS PERIOD:	(10.52		[LL BE]	- /		CONSTRUCTION & TRAFFIC PATTERN CHANGES		TO IMPLEMENTATION
DAY OF HOLIDAY OR EVENT	TIME ALL LANES MUST BE OPEN TO TRAFFIC 12:00N FRIDAY THROUGH		CLOSED "MI FOR 60 D	MM-DD″			TRAFFIC RESTRICTIO	CONDITIONS NOT SPECIFIED I ONS SHALL ALSO BE REPORTE	D TO THE PROJECT
SUNDAY	6:00 AM MONDAY		INFO: 1-740				ENGINEER USING T	HE NOTIFICATIONS TIME TABI	LE.
MONDAY	12:00N FRIDAY THROUGH 6:00 AM TUESDAY		W20-H13 (12.75 S				WORK SITE LIGHTII	NG:	
TUESDAY	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY			TRACT TABLE			DURING NIGHTTIM	F THE WORK SITE FOR OPERA E PERIODS SHALL BE ACCOM	PLISHED SO THAT THE
TUESDAY (GEN/REG ELECTION)	5:00 AM TUESDAY THROUGH 12:00 AM WEDNESDAY					WINDOW	ENSURE THE ADEQ	USE GLARE TO THE DRIVERS (UACY OF THE FLOODLIGHT PL) THE ENGINEER SHALL DRIVE	ACEMENT, THE
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM THURSDAY	DESCRIPTION OF CRITICAL WORK	CALENDAR DAY TO COMPLETE	S DISINCENTIVE \$ PER DAY	START	END	SITE EACH NIGHT W	VHEN THE LIGHTING IS IN PLA VHEN THE LIGHTING IS IN PLA NCING ANY WORK. IF GLARE IS HIELDING SHALL BE ADJUSTEI	CE AND OPERATIVE S DETECTED, THE LIGHT
THURSDAY	12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY	ALL PROPOSED WORK	90	\$6,500	4/1/2025	10/1/2025	OF THE ENGINEER L	BEFORE WORK PROCEEDS. PA T, AND MATERIALS SHALL BE	AYMENT FOR ALL
THURSDAY (THANKSGIVING ONLY)	6:00 AM WEDNESDAY THROUGH 6:00 AM MONDAY	AT THE 10.32 SITE	45	\$6,500	4/1/2025	10/1/2025		ÁCT PRICE FOR ITEM 614, MA	
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY	AT THE 11.98 SITE		<i></i>					
SATURDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY	ALL PROPOSED WORK AT THE 12.75 SITE ALL WORK ON PROJECT	60	\$6,500	4/1/2025	10/1/2025	THE DROPOFF ADJACENT TO THE TRAVELED LANE SHALL MEET THE CRITERIA OUTLINED IN STANDARD DRAWING MT-101.90. NO ADDITIO COMPENSATION SHALL BE MADE FOR MATERIALS, LABOR OR EQUIPM NECESSARY TO MEET THE REQUIREMENTS OF MT-101.90.		
		(INCLUDING WORK	180	\$600 (PER SITE)	4/1/2025	10/1/2025			



PAYMENT FOR ACCEPTED QUANTITIES WILL BE MADE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL BE FOR ALL MATERIALS, LABOR, INCIDENTALS AND EQUIPMENT FOR FURNISHING, PROPER SIGN PLACEMENT AND SIZING, TIMELY ERECTING AND/OR UNCOVERING OF SIGNS, MAINTAINING SIGNS, AND TIMELY COVERING AND/OR REMOVING SIGNS AND SUPPORTS. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614 - DETOUR SIGNING

IN ADDITION TO THE OFFICIAL, SIGNED DETOUR ROUTE, LOCAL ROUTES HAVE BEEN DETERMINED TO BE THE SECONDARY, UNSIGNED DETOUR ROUTE OR "DESIGNATED LOCAL DETOUR ROUTE." THESE ROUTES ARE SHOWN ON SHEETS P.10-P.11. DURING THE TIME THAT TRAFFIC IS DETOURED, THE CONTRACTOR SHALL MAINTAIN THIS ROUTE IN A CONDITION WHICH IS REASONABLY SMOOTH AND FREE FROM HOLES, RUTS, RIDGES, BUMPS, DUST AND STANDING WATER. ONCE THE DETOUR IS REMOVED AND TRAFFIC RETURNED TO ITS NORMAL PATTERN, THE DESIGNATED LOCAL DETOUR ROUTE SHALL BE RESTORED TO A CONDITION THAT IS EQUIVALENT TO THAT WHICH EXISTED PRIOR TO ITS USE FOR THIS PURPOSE. ALL SUCH WORK SHALL BE PERFORMED WHEN AND AS DETERMINED BY THE ENGINEER.

ITEM 614 - DETOUR SIGNING

SIZE AND PLACEMENT OF DETOUR SIGNS (M4-9) SHOULD FOLLOW THE REQUIREMENTS OF THE OMUTCD SECTION 6F.03, SECTION 2A.11 AND TABLE 6F-01.

DETOUR SIGNING SHALL PROVIDE DRIVERS ADEQUATE TIME TO CLEARLY READ THE SIGNS AND MAKE THE PROPER DECISIONS AT EACH REQUIRED TURNING MOVEMENT. THE DESIGNATED DETOUR ROUTE SHALL BE SIGNED IN ACCORDANCE WITH THE REQUIREMENTS BELOW:

• APPROXIMATELY 1500 FEET PRIOR TO TIP OF THE PAINTED GORE AT AN INTERCHANGE WHEN EXITING A HIGH SPEED (45 MPH OR HIGHER) FACILITY.

• AT OR NEAR THE EXISTING SIGN IN THE GORE OF AN INTERCHANGE RAMP.

• AT OR NEAR THE FIRST EXISTING LANE ASSIGNMENT SIGN ON AN INTERCHANGE EXIT RAMP.

• AT OR NEAR THE EXISTING LANE ASSIGNMENT SIGN OR EXISTING ROUTE MARKER AT THE END OF AN EXIT RAMP.

• APPROXIMATELY 500 FEET PRIOR TO A REQUIRED TURN AT AN INTERSECTION NOT CONTROLLED BY A STOP SIGN (FOR 45 MPH OR HIGHER ONLY).

• AT OR NEAR THE EXISTING LANE ASSIGNMENT SIGN OR EXISTING ROUTE MARKER AT AN INTERSECTION.

• EVERY TWO MILES ALONG A TANGENT SECTION BETWEEN TURNING MOVEMENTS OUTSIDE A CITY.

• EVERY TWO BLOCKS ALONG A TANGENT SECTION BETWEEN TURNING MOVEMENTS WITHIN A CITY.

• AT ANY OTHER INTERSECTION OR DECISION POINT WHERE THE DETOUR ROUTE IS CONTRARY TO THE NORMAL, EXPECTED TURNING MANEUVER OR OTHERWISE UNCLEAR.

DETOUR SIGNS SHALL BE PLACED, WHEN POSSIBLE, NEXT TO BUT NOT BLOCKING EXISTING ROUTE MARKERS OR LANE ASSIGNMENT SIGNS. DETOUR SIGNS SHALL NOT OBSCURE OR BE OBSCURED BY OTHER EXISTING OR TEMPORARY SIGNS.

DETOUR SIGNS SHALL BE ERECTED AND/OR UNCOVERED PRIOR TO THE ROAD OR RAMP BEING CLOSED TO TRAFFIC BUT NO EARLIER THAN FOUR HOURS PRIOR TO THE CLOSURE. DETOUR SIGNS SHALL BE COVERED AND/OR REMOVED NO LATER THAN FOUR HOURS FOLLOWING THE ROAD OR RAMP RE-OPENING TO TRAFFIC.

LUMP SUM

DESIGNATED LOCAL DETOUR ROUTE

DURING THE TIME THAT TRAFFIC IS DETOURED, THOSE ROUTES THAT ARE PART OF THE OFFICAL STATE DETOUR ROUTE THROUGH MUNICIPAL CORPORATIONS, THE CONTRACTOR SHALL MAINTAIN THESE ROUTES IN A CONDITION WHICH IS REASONABLY SMOOTH AND FREE FROM HOLES, RUTS, RIDGES, BUMPS, DUST, AND STANDING WATER.

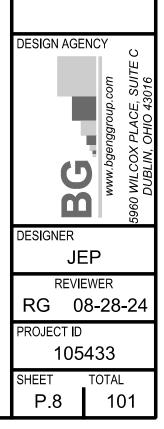
THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED FOR USE AS DETERMINED BY THE ENGINEER TO MAINTAIN AND SUBSEQUENTLY RESTORE THE DESIGNATED STATE AND LOCAL DETOUR ROUTES.

ITEM 441, ASPHALT CONCRETE SURFACE COURSE, *TYPE 1, (449), PG64-22* ITEM 407, NON TRACKING TACK COAT ITEM 614, ASPHALT CONCRETE FOR MAINTAINING TRAFFIC ITEM 617, COMPACTED AGGREGATE ITEM 642, CENTER LINE, TYPE 1

25 CU. YD. <u>50</u> GAL.

50 CU. YD. 25 CU. YD. <u>0.10</u> MI.

S



ŧ			SHEE	T NUM.		ı -	I	 PA	RT.	ITEM	ITEM	GRAND	UNIT	D
P.57	P.74	P.80						01/STR/10	02/STR/04		EXT	TOTAL		
LS								 LS		202	11002	LS		STRUCTURE REMOVED, OVER 20 FOOT SPAN
111								111		202	22900	111	SY	APPROACH SLAB REMOVED
LS								LS		503	11100	LS		COFFERDAMS AND EXCAVATION BRACING
LS			_					 LS		503	21300	LS		UNCLASSIFIED EXCAVATION
LS			_					LS		505	11100	LS		PILE DRIVING EQUIPMENT MOBILIZATION
560								 560		507	00100	560	FT	STEEL PILES HP10X42, FURNISHED
480								480		507	00150	480	FT	STEEL PILES HP10X42, DRIVEN
31,405								31,405		509	26000	31,405	LB	GALVANIZED STEEL REINFORCEMENT
105								105		511	34444	105	CY	CLASS QC2 CONCRETE, BRIDGE DECK
78								 78		511	43510	78	СҮ	CLASS QC1 CONCRETE, ABUTMENT INCLUDING FOOT
89								89		512	10050	89	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)
11								11		512	33000	11	SY	TYPE 2 WATERPROOFING
48,000								 48,000		513	10261	48,000	LB	STRUCTURAL STEEL MEMBERS, LEVEL 3, AS PER PLAN
1,026								 1,026		513	20000	1,026	EACH	WELDED STUD SHEAR CONNECTORS
86								86		516	13200	86	SF	¹ / ₂ " PREFORMED EXPANSION JOINT FILLER
86								86		516	13600	86	SF	1" PREFORMED EXPANSION JOINT FILLER
38								 38		516	13900	38	SF	2" PREFORMED EXPANSION JOINT FILLER
107								 107		516	14020	107	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL
12			_					 12		516	44000	12	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES
132								132		517	70100	132	FT	RAILING (THREE STEEL TUBE BRIDGE RAILING)
4								4		518	21200	4	СҮ	POROUS BACKFILL WITH GEOTEXTILE FABRIC
127								 127		SPECIAL	51822300	127	FT	STEEL DRIP STRIP
121 52								 121 52		518 518	40000 40010	121 52	FT FT	6" PERFORATED CORRUGATED PLASTIC PIPE 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, IN
								52		510	40010	JZ		
178								178		526	15001	178	SY	REINFORCED CONCRETE APPROACH SLABS (T=13"), A
80								 80		526	90031	80	FT	TYPE C INSTALLATION, AS PER PLAN
										625	33000	L	EACH	STRUCTURE GROUNDING SYSTEM
										202	11000			STRUCTURE 20 FOOT SP
	LS								LS LS	202 503	11000 11100	LS LS		STRUCTURE REMOVED COFFERDAMS AND EXCAVATION BRACING
	63								63	503	21100	63	СҮ	UNCLASSIFIED EXCAVATION
	3,696								3,696	509	10000	3,696	LB	EPOXY COATED STEEL REINFORCEMENT
	12								12	511	46000	12	SY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT
			_						27	F44	46540	27		
	27								27	511 511	46510 46610	27	CY CY	CLASS QC1 CONCRETE, FOOTING CLASS QC1 CONCRETE, HEADWALL
	41								41	512	10050	41	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)
	189								189	512	33000	189	SY	TYPE 2 WATERPROOFING
	26		_						26	516	13600	26	SF	1" PREFORMED EXPANSION JOINT FILLER
	6 72								6 72	518 611	21200 94936	6 72	CY FT	POROUS BACKFILL WITH GEOTEXTILE FABRIC
									12	011	94930	12		9' X 4' CONDUIT, TYPE A, 706.05
														STRUCTURE OVER 2
		LS						 LS		202	11002	LS		STRUCTURE REMOVED, OVER 20 FOOT SPAN
		111 LS						 111 LS		202 503	22900 11100	111 LS	SY	APPROACH SLAB REMOVED COFFERDAMS AND EXCAVATION BRACING
		605						605		503	21100	605	СҮ	UNCLASSIFIED EXCAVATION BRACING
		19,112						19,112		509	10000	19,112	LB	EPOXY COATED STEEL REINFORCEMENT
		171						 171		511	46512	171	СҮ	
		171						 171		511	46512	171	CY CY	CLASS QC1 CONCRETE WITH QC/QA, FOOTING CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT
		2						2		511	46610	2	СҮ	CLASS QC1 CONCRETE, HEADWALL
		82						82		512	10050	82	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)
		161	_					 161		512	33000	161	SY	TYPE 2 WATERPROOFING
		289				+		 289		512	33010	289	SY	TYPE 3 WATERPROOFING
		31						31		516	13600	31	SF	1" PREFORMED EXPANSION JOINT FILLER
		13						13		518	21200	13	СҮ	POROUS BACKFILL WITH GEOTEXTILE FABRIC
		72						72		611	70000	72	FT	CONDUIT, TYPE A, PRECAST REINFORCED CONCRETE
	+													
					I	1 1	I	 1	1		1		I	

	-	
DESCRIPTION	SEE SHEET NO.	
20 FOOT SPAN (DEL-00521-10.320)		1
	P.54	
DTING		
AN	P.54	
L ES AND LOAD PLATE (NEOPRENE) (12" X 12" X 1.914")		GENERAL SUMMARY
	P.66	'T ST
INCLUDING SPECIALS		RA
, AS PER PLAN	P.70 P.70	GENE
SPAN AND UNDER (DEL-00521-11.980)		
T INCLUDING FOOTING		
		-
20 FOOT SPAN (DEL-00521-12.750)		
		MILCOX PLACE, SUITE C
		2960
		DESIGNER JEP
E THREE SIDED FLAT TOPPED CULVERT (34'-0" SPAN X 10'-0" RISE)		REVIEWER RG 08-28-24
		PROJECT ID 105433 SHEET TOTAL
		P.13 101

GENERAL NOTES:

DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 9th EDITION, 2020, SUPPLEMENTAL SPECIFICATIONS 800, 832, AND 902, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS:

REFER TO THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS: 800-2023 REVISED 1/19/2024 *REVISED* 7/21/2023 832 REVISED 7/19/2019 902

DESIGN LOADING:

HL93 AND THE ALTERNATE MILITARY LOADING. FUTURE WEARING SURFACE (FWS) OF 60 POUNDS PER SQUARE FOOT.

DESIGN STRESSES:

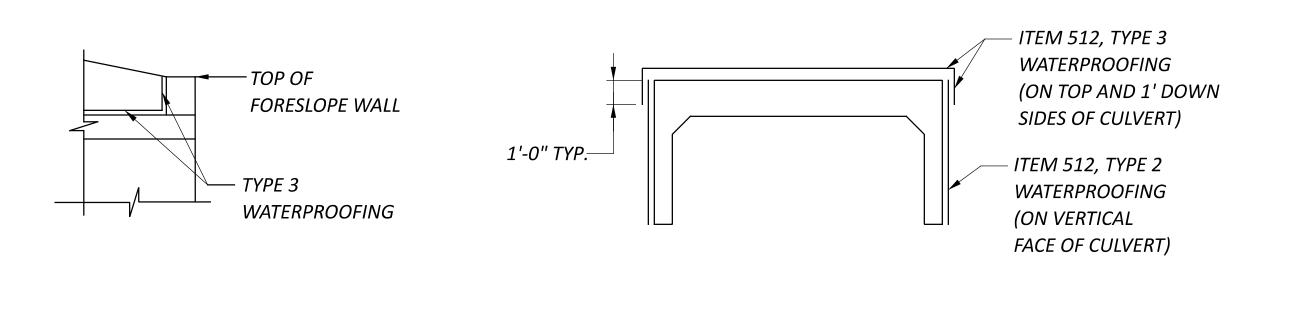
CAST-IN-PLACE STRUCTURES: CONCRETE CLASS "QC1" - fc = 4,000 PSI SUBSTRUCTURE REINFORCING STEEL - ASTM A615 OR A996 - Fy = 60,000 PSI

FOUNDATION BEARING RESISTANCE:

REAR AND FORWARD CULVERT FOOTINGS, AS DESIGNED, PRODUCE A MAXIMUM SERVICE LIMIT STATE BEARING PRESSURE OF 5.1 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LIMIT STATE BEARING PRESSURE OF 8.1 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 11.2 KIPS PER SQUARE FOOT.

STANDARD ABBREVIATIONS:

BRGS.	-	BEARINGS
C/C	-	CENTER TO CENTER
С.Ј.	-	CONSTRUCTION JOINT
CPP.	-	CORRUGATED PLASTIC PIPE
CLR.	-	CLEAR
DIA.	-	DIAMETER
E.F.	-	EACH FACE
EQ.	-	EQUAL
EXIST.	-	EXISTING
EXP.	-	EXPANSION
F.A.	-	FORWARD ABUTMENT
<i>F.F.</i>	-	FAR FACE
<i>F.S.</i>	-	FIELD SPLICE
MIN.	-	MINIMUM
N.F.	-	NEAR FACE
PEJF	-	PERFORMED EXPANSION JOINT FILLER
R.A.	-	REAR ABUTMENT
SPA.	-	SPACING/SPACES
TYP.	-	TYPICAL
MAX.	-	MAXIMUM
SER.	-	SERIES
STR.	-	STRAIGHT
(T).	-	ТОР
(B).	-	BOTTOM
(T&B).	-	TOP AND BOTTOM
INC.	-	INCREMENT



THREE-SIDED CULVERT WALL AND TOP SLAB THICKNESS:

THE WALL AND TOP THICKNESSES SHOWN ON THE PLANS WERE OBTAINED FROM THE MANUFACTURERS AT THE TIME PLANS WERE PREPARED. IF THE WALL AND/OR TOP THICKNESS OF THE CULVERT PROPOSED 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 COST TO THE STATE.

ITEM 512, TYPE 2 WATERPROOFING:

MEMBRANE WATERPROOFING (SHEET TYPE 2) SHALL EXTEND VERTICALLY DOWN ALL SIDES OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL. THE EXTERIOR JOINT GAP ON THE TOP AND SIDES BETWEEN THE PRECAST CULVERT SECTIONS SHALL BE FILLED WITH PORTLAND CEMENT MORTAR PRIOR TO INSTALLING THE MEMBRANE WATERPROOFING. JOINT WRAP AS SPECIFIED IN 611.08 AND CONCRETE SEALING AS SPECIFIED IN 611.09 ARE NOT REQUIRED UNDER THE LIMITS OF THE MEMBRANE WATERPROOFING. PAYMENT FOR THE MEMBRANE WATERPROOFING SHALL BE AT THE CONTRACT PRICE AND BID PER SQUARE YARD FOR ITEM 512, TYPE 2 WATERPROOFING.

ITEM 512, TYPE 3 WATERPROOFING:

MEMBRANE WATERPROOFING (SHEET TYPE 3) SHALL BE APPLIED TO THE TOP SURFACE OF THE PRECAST CULVERT SECTIONS. THE EXTERIOR JOINT GAP ON THE TOP AND SIDES BETWEEN THE PRECAST CULVERT SECTIONS SHALL BE FILLED WITH PORTLAND CEMENT MORTAR PRIOR TO INSTALLING THE MEMBRANE WATERPROOFING. JOINT WRAP AS SPECIFIED IN 611.08 AND CONCRETE SEALING AS SPECIFIED IN 611.09 ARE NOT REQUIRED UNDER THE LIMITS OF THE MEMBRANE WATERPROOFING. PAYMENT FOR THE MEMBRANE WATERPROOFING SHALL BE AT THE CONTRACT PRICE AND BID PER SQUARE YARD FOR ITEM 512, TYPE 3 WATERPROOFING.

ASBESTOS NOTIFICATION

AN ASBESTOS SURVEY OF THE DEL-521-12.75 BRIDGE (SFN 2103664) WAS CONDUCTED BY A CERTIFIED ASBESTOS HAZARD EVALUATION SPECIALIST. THE SURVEY DETERMINED THAT NO ASBESTOS IS PRESENT AT THE BRIDGE.

A COPY OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) NOTIFICATION OF DEMOLITION AND RENOVATION FORMS, PARTIALLY COMPLETED AND SIGNED BY THE BRIDGE OWNER. WILL BE PROVIDED TO THE SUCCESSFUL BIDDER. THE CONTRACTOR SHALL COMPLETE THE FORM AND SUBMIT IT TO THE OEPA ELECTRONICALLY OR VIA US MAIL TO:

OHIO EPA DAPC-ASBESTOS P.O. BOX 1049 *COLUMBUS, OHIO* 43216-1049

AT LEAST TEN (10) WORKING DAYS PRIOR TO THE START OF ANY DEMOLITION AND/OR REHABILITATION. THE CONTRACTOR SHALL PROVIDE A COPY OF THE COMPLETED FORM TO THE ENGINEER.

INFORMATION REQUIRED ON THE FORM WILL INCLUDE: 1) THE CONTRACTORS NAME AND ADDRESS, 2) THE SCHEDULED DATES FOR THE START AND COMPLETION OF THE BRIDGE REMOVAL AND 3) A DESCRIPTION OF THE PLANNED DEMOLITION WORK AND THE METHOD(S) TO BE USED.

THE CONTRACTOR SHALL FURNISH ALL FEES, LABOR, AND MATERIAL NECESSARY TO COMPLETE AND SUBMIT THE OEPA NOTIFICATION FORM.

ITEM	EXTENSION	TOTAL	UNIT	
202	11002	LUMP	LUMP	STRUCTURE REMOVED, OVER 20 FOOT SPAN
202	22900	111	SY	APPROACH SLAB REMOVED
503	11100	LUMP	LUMP	COFFERDAMS AND EXCAVATION BRACING
503	21100	605	СҮ	UNCLASSIFIED EXCAVATION
509	10000	19112	LB	EPOXY COATED STEEL REINFORCEMENT
511	46010	13	СҮ	CLASS QC1 CONCRETE, RETAINING/WINGWALL NO
511	46512	171	СҮ	CLASS QC1 CONCRETE WITH QC/QA, FOOTING
511	46610	2	СҮ	CLASS QCI CONCRETE, HEADWALL
512	10050	82	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)
512	33000	161	SY	TYPE 2 WATERPROOFING
512	33010	289	SY	TYPE 3 WATERPROOFING
516	13600	31	SF	1" PREFORMED EXPANSION JOINT FILLER
518	21200	13	СҮ	POROUS BACKFILL WITH GEOTEXTILE FABRIC
611	70000	72	FT	CONDUIT, TYPE A, PRECAST REINFORCED CONCRE

DESCRIPTION	
INCLUDING FOOTING	
え	
E THREE SIDED FLAT TOPPED CULVERT (34'-0" SPAN x 10'-0" RISE)	

GENERAL NOTES AND ESTIMATED QUANTITIES	BRIDGE NO. DEL-00521-12.750	S.R. 521 OVER LITTLE WALNUT CREEK
SFN 2	10366	35
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