ITEM 614, MAINTAINING TRAFFIC

ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CURRENT EDITION). COPIES ARE AVAILABLE FROM,

THE OHIO DEPARTMENT OF TRANSPORTATION
BUREAU OF TRAFFIC,
1980 WEST BROAD STREET
COLUMBUS, OHIO 43223

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK LISTED IN THE GENERAL SUMMARY FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER.

LANE CLOSURES AND RESTRICTIONS SHALL ADHERE TO THE TIMES LISTED IN THE LANE VALUE CONTRACT TABLES. THE MAXIMUM ALLOWABLE CLOSURE LENGTH IS 2 MILES AT ANY GIVEN TIME. CLOSURES OR RESTRICTIONS SHALL BE REMOVED FROM THE ROADWAY AT THE END OF WORKING HOURS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR APPROVED BY THE ENGINEER. LANE CLOSURES OR RESTRICTIONS SHALL BE LIMITED TO AREAS WHERE WORK IS BEING PERFORMED. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

CONSTRUCTION OPERATIONS SHALL NOT BEGIN UNTIL ALL TRAFFIC CONTROL IS IN PLACE AND APPROVED BY ODOT PERSONNEL. THE CONSTRUCTION INSPECTOR SHALL APPROVE ALL TEMPORARY TRAFFIC CONTROL DEVICES FOR CONDITION AND LOCATION BEFORE THE CONTRACTOR WILL BE ALLOWED TO BEGIN WORK. IF THE CONTRACTOR DOES NOT COMPLY WITH THE STANDARDS, HIS PERMIT SHALL BE REVOKED AND ALL WORK SHALL BE TERMINATED.

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY USE OF WORK ZONE TRAFFIC SIGNALS AND A COMBINATION OF EXISTING PAVEMENT, THE COMPLETED PAVEMENT, ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, AND TEMPORARY SURFACES USING ITEMS 410 AND 614, EXCEPT FOR A PERIOD NOT TO EXCEED 30 CONSECUTIVE CALENDAR DAYS FOR THE 0.36 SITE AND 75 CONSECUTIVE CALENDAR DAYS FOR THE 3.48 SITE WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEETS P.20A &P.21. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT SHOWN IN THE WINDOW CONTRACT TABLE ON THIS SHEET. THE 0.36 AND 3.48 SITES SHALL NOT BE CONCURRENTLY CLOSED.

CONTRATOR SHALL CONSIDER THE 1.49 AND 1.56 SITE LOCATIONS TO BE A SINGLE WORK ZONE AND SHALL CONSTRUCT BOTH LOCATIONS SIMULTANEOUSLY.

THE 3.25 SITE SHALL UTILIZE FLAGGERS AS PER SCD MT-97.10 TO PERFORM ALL CONSTRUCTION OPERATIONS. A MINIMUM OF ONE LANE IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES WHEN CONSTRUCTION ACTIVITIES ARE NOT BEING PERFORMED. FLAGGERS SHALL ALSO BE USED TO COMPLETE THE BRIDGE OVERLAY WORK FOR THE 0.93 STRUCTURE AND SHALL BE LIMITED TO NIGHTTIME AND WEEKEND HOURS ONLY.

NO WORK SHALL BE PERFORMED AND THE SAME NUMBER OF LANES AS WERE AVAILABLE AT THE START OF THE PROJECT SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR SPECIAL EVENTS:

NEW YEAR'S (OBSERVED)
MEMORIAL DAY
FOURTH OF JULY (OBSERVED)
LABOR DAY
GENERAL/REGULAR ELECTION DAY (NOV)
THANKSGIVING
CHRISTMAS (OBSERVED)

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR SPECIAL EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY OR EVENT	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
TUESDAY (GEN/REG ELECTION)	5:00 AM TUESDAY THROUGH 12:00 AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY
THURSDAY (THANKSGIVING ONLY)	6:00 AM WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY

ITEM 614, MAINTAINING TRAFFIC (CONTINUED)

SPECIAL EVENTS

DELAWARE COUNTY FAIR – LANE OR SHOULDER CLOSURES ARE NOT PERMITTED DURING THE DELAWARE COUNTY FAIR 6AM-10PM DAILY ON THE FOLLOWING ROUTES:
SR 229 BETWEEN US 23 AND PETERS ROAD (CR 250)

DURING THE SAME PERIODS, MAINTAIN PEDESTRIAN ACCESS IF PEDESTRIAN ACCESS WAS PRESENT PRIOR TO CONSTRUCTION.

NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRY WIDE, OR FOR LABOR STRIKES, UNLESS SUCH STRIKES ARE AREA WIDE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF $100 FOR EACH MINUTE THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED.

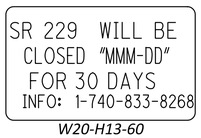
BEFORE THE WORK BEGINS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER THE NAME(S) AND TELEPHONE NUMBER(S) OF A PERSON OR PERSONS WHO CAN BE CONTACTED TWENTY-FOUR (24) HOURS PER DAY BY THE OHIO DEPARTMENT OF TRANSPORTATION AND ALL INTERESTED POLICE AGENCIES. THIS PERSON OR PERSONS SHALL BE RESPONSIBLE FOR PLACING OR REPLACING NECESSARY TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW.

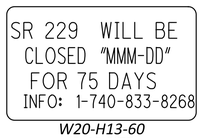
ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
ROAD CLOSURES	≥ 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	≤ 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE.

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.



W20-H13-60
(0.36 SITE)



W20-H13-60
(3.48 SITE)

WINDOW CONTRACT TABLE

DESCRIPTION OF CRITICAL WORK	CALENDAR DAYS TO COMPLETE	DISINCENTIVE $ PER DAY	WORK WINDOW START	WORK WINDOW END
ALL PROPOSED WORK AT THE 0.36 SITE	30	$3,200	9/1/2026	8/1/2027
ALL PROPOSED WORK AT THE 3.48 SITE EXCEPT STRUCTURAL STEEL PAINTING, NON-EPOXY SEALER, AND BRIDGE DECK GROOVING	75	$3,200	9/1/2026	8/1/2027

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:

- AT THE LIMITS OF THE WORK AREA FOR THE 0.36 SITE ON S.R 229
- AT THE LIMITS OF THE WORK AREA FOR THE 3.48 SITE ON S.R 229

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 PLAN.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

SEQUENCE OF CONSTRUCTION ON S.R. 229

THE FOLLOWING IS A SUGGESTED SEQUENCE OF CONSTRUCTION FOR THIS PROJECT:

IT IS THE INTENT OF THE FOLLOWING SEQUENCE OF CONSTRUCTION TO PROVIDE A WORK AREA FOR THE CONTRACTOR WHILE ALSO MANTAINING TRAFFIC IN THE MANNER WHICH IS SAFE FOR THE TRAVELING PUBLIC. ALL WORK ZONE OR PERMANENT PAVEMENT MARKINGS SHALL BE IN PLACE BEFORE ANY PAVEMENT IS OPEN TO TRAFFIC. CONTRACTOR SHALL ERECT ALL TRAFFIC CONTROL DEVICES AND ENSURE THEY ARE IN GOOD WORKING ORDER PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES ON THE BRIDGE . PRIOR TO ERECTING PORTABLE BARRIER, PAVEMENT FOR MAINTAINING TRAFFIC SHALL BE PLACED AS SHOWN, ON SHEET P.15-P.20.

ALL WORK ZONE SIGNING AND STRIPING SHALL BE IN PLACE PRIOR TO ERECTING BARRIER, AS WELL AS THE WORK ZONE TRAFFIC SIGNAL INSTALLATIONS.

THE WORK ZONE TRAFFIC SIGNALS SHALL INITIALLY BE TIMED ACCORDING TO THE SIGNAL PHASING DIAGRAM INCLUDED IN THE PLAN OR AS PROVIDED BY ENGINEER. THE CONTRACTOR SHALL PERIODICALLY MONITOR THE SIGNAL OPERATION TO DETERMINE FAILURE OR INEFFICIENT OPERATION. AT THE BEGINNING OF EACH PHASE, THE ENGINEER SHALL OBSERVE THE INITIAL FUNCTIONING OF THE TIMING PLAN TO ENSURE IT IS WORKING PROPERLY, AND ACCOMPLISHING THE ABOVE STATED INTENT, AS WELL AS AVOIDING UNREASONABLY LONG TRAFFIC QUEUES AT EITHER END. IF NECESSARY, THE TIMING SHALL BE ADJUSTED IF UNREASONABLY LONG TRAFFIC QUEUES ARE OBSERVED ON EITHER SIDE. THE ENGINEER AND CONTRACTOR SHALL MAKE PERIODIC OBSERVATIONS (AT LEAST BI-WEEKLY) TO ENSURE THAT THE SIGNALS ARE CONTINUING TO FUNCTION AS PLANNED. THE CONTRACTOR SHALL COMPLETE ALL WORK AS SHOWN IN THE TABLE:

PROPOSED WORK	COMPLETION DATE	DISINCENTIVE $ PER DAY
ALL PROPOSED WORK AT 0.93, 1.49, 1.56, 2.298, AND 3.25 SITES	11/1/2026	$2,000

0.93 SITE

PRE-PHASE:
DURING PRE-PHASE, CONSTRUCT ALL TEMPORARY PAVEMENT ALONG THE SOUTHERN SHOULDER TO THE LIMITS SHOWN ON SHEET P.15. CONTRACTOR IS TO MAINTAIN TWO-WAY TRAFFIC USING THE EXISTING PAVEMENT AS WELL AS MAINTAIN ACCESS TO THE "NORTON RUN FISHING AREA AND KAYAK LAUNCH" DRIVE DURING PHASE 1 CONSTRUCTION.

PHASE 1:
DURING PHASE 1, TRAFFIC WILL BE SHIFTED TO THE EXISTING PAVEMENT ON THE SOUTH SIDE (EASTBOUND) OF S.R. 229 AND REDUCED TO A SIGNALIZED ONE LANE, TWO-WAY TRAFFIC TO ALLOW CONSTRUCTION TO BE PERFORMED ON THE NORTH SIDE OF S.R. 229. THROUGHOUT THE WORK AREA, THE LANE SHALL BE 10.0' WITH 1.0' PORTABLE BARRIER OFFSET AND A 2.0' SHOULDER MAXIMUM. THE CONTRACTOR SHALL INSTALL ALL PORTABLE BARRIER, SIGNS, AND PAVEMENT MARKINGS AS SHOWN ON SHEET P.15. INSTALL THE TEMPORARY TRAFFIC SIGNALS AS SHOWN TO BE USED DURING PHASES 1 AND 2. FOR THE DEL-00229-00.930 PART-WIDTH CONSTRUCTION DETAILS, SEE SHEET P.87. THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE "NORTON RUN FISHING AREA AND KAYAK LAUNCH" DRIVE. REFER TO SHEET P.14 FOR ADDITIONAL NOTES REGARDING CANOE AND BOATING TRAFFIC TEMPORARY CLOSURES DURING SPECIFIC CONSTRUCTION ACTIVITIES .CONSTRUCT TEMPORARY PAVEMENT ON THE NORTH SIDE OF S.R. 229 TO THE LIMITS SHOWN ON SHEET P.16 TO BE USED DURING PHASE 2.

PHASE 2:
DURING PHASE 2, TRAFFIC WILL BE SHIFTED TO THE EXISTING PAVEMENT ON THE NORTH SIDE (WESTBOUND) OF S.R. 229 AND REDUCED TO A SIGNALIZED ONE LANE, TWO-WAY TRAFFIC TO ALLOW CONSTRUCTION TO BE PERFORMED ON THE SOUTH SIDE OF S.R. 229. THROUGHOUT THE WORK AREA, THE LANE SHALL BE 10.0' WITH 1.0' PORTABLE BARRIER OFFSET AND A 2.0' SHOULDER MAXIMUM. THE CONTRACTOR SHALL INSTALL ALL PORTABLE BARRIER, SIGNS, AND PAVEMENT MARKINGS AS SHOWN ON SHEET P.16. FOR THE DEL-00229-00.930 PART-WIDTH CONSTRUCTION DETAILS, SEE SHEET P.88. THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE "NORTON RUN FISHING AREA AND KAYAK LAUNCH" DRIVE. REFER TO SHEET P.14 FOR ADDITIONAL NOTES REGARDING CANOE AND BOATING TRAFFIC TEMPORARY CLOSURES DURING SPECIFIC CONSTRUCTION ACTIVITIES .

PHASE 3:
CONTRACTOR SHALL REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES USED IN THE PREVIOUS PHASE PRIOR TO BEGINNING PHASE 3 WORK. FLAGGERS AS PER SCD MT-97.10 SHALL BE USED TO COMPLETE THE BRIDGE OVERLAY AND MISCELLANEOUS WORK. THIS WORK SHALL BE LIMITED TO NIGHTTIME AND WEEKEND CLOSURES ONLY.

CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING PRIOR TO ANY CLOSURES AS OUTLINED IN THE "NOTIFICATION OF TRAFFIC RESTRICTIONS" NOTE.

CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES AND RETURN THE FLOW OF TRAFFIC TO THE TYPICAL CONFIGURATION ONCE ALL PROPOSED WORK HAS BEEN COMPLETED. PLACE THE FINAL PAVEMENT MARKINGS PRIOR TO OPENING TRAFFIC FOR S.R. 229.

0.1.49/1.56 SITE

PRE-PHASE:
DURING PRE-PHASE, CONSTRUCT ALL TEMPORARY PAVEMENT ALONG THE SOUTHERN SHOULDER TO THE LIMITS SHOWN ON SHEET P.17. CONTRACTOR IS TO MAINTAIN TWO-WAY TRAFFIC USING THE EXISTING PAVEMENT AS WELL AS MAINTAIN ACCESS TO "GEARHISER ROAD" AND THE FIELD DRIVE ON THE NORTH SIDE OF S.R. 229 DURING PHASE 1 CONSTRUCTION.

PHASE 1:
DURING PHASE 1, TRAFFIC WILL BE SHIFTED TO THE EXISTING PAVEMENT ON THE SOUTH SIDE (EASTBOUND) OF S.R. 229 AND REDUCED TO A SIGNALIZED ONE LANE, TWO-WAY TRAFFIC TO ALLOW CONSTRUCTION TO BE PERFORMED ON THE NORTH SIDE OF S.R. 229. THROUGHOUT THE WORK AREA, THE LANE SHALL BE 10.0' WITH 1.0' PORTABLE BARRIER OFFSET AND A 2.0' SHOULDER MAXIMUM. THE CONTRACTOR SHALL INSTALL ALL PORTABLE BARRIER, SIGNS, AND PAVEMENT MARKINGS AS SHOWN ON SHEET P.17. INSTALL THE TEMPORARY TRAFFIC SIGNALS AS SHOWN TO BE USED DURING PHASES 1 AND 2. FOR THE DEL-00229-01.490 PART-WIDTH CONSTRUCTION DETAILS, SEE SHEET P.100. THE CONTRACTOR SHALL MAINTAIN ACCESS TO "GEARHISER ROAD" AND THE FIELD DRIVE. CONSTRUCT TEMPORARY PAVEMENT ON THE NORTH SIDE OF S.R. 229 TO THE LIMITS SHOWN ON SHEET P.18 TO BE USED DURING PHASE 2.

PHASE 2:
DURING PHASE 2, TRAFFIC WILL BE SHIFTED TO THE EXISTING PAVEMENT ON THE NORTH SIDE (WESTBOUND) OF S.R. 229 AND REDUCED TO A SIGNALIZED ONE LANE, TWO-WAY TRAFFIC TO ALLOW CONSTRUCTION TO BE PERFORMED ON THE SOUTH SIDE OF S.R. 229. THROUGHOUT THE WORK AREA, THE LANE SHALL BE 10.0' WITH 1.0' PORTABLE BARRIER OFFSET AND A 2.0' SHOULDER MAXIMUM. THE CONTRACTOR SHALL INSTALL ALL PORTABLE BARRIER, SIGNS, AND PAVEMENT MARKINGS AS SHOWN ON SHEET P.18. FOR THE DEL-00229-00.930 PART-WIDTH CONSTRUCTION DETAILS, SEE SHEET P.101. THE CONTRACTOR SHALL MAINTAIN ACCESS TO "GEARHISER ROAD" AND THE FIELD DRIVE.

CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES AND RETURN THE FLOW OF TRAFFIC TO THE TYPICAL CONFIGURATION ONCE ALL PROPOSED WORK HAS BEEN COMPLETED. PLACE THE FINAL PAVEMENT MARKINGS PRIOR TO OPENING TRAFFIC FOR S.R. 229.

2.298 SITE

PRE-PHASE:
DURING PRE-PHASE, CONSTRUCT ALL TEMPORARY PAVEMENT ALONG THE SOUTHERN SHOULDER TO THE LIMITS SHOWN ON SHEET P.19. CONTRACTOR IS TO MAINTAIN TWO-WAY TRAFFIC USING THE EXISTING PAVEMENT AS WELL AS MAINTAIN ACCESS TO THE ASPHALT AND GRAVEL DRIVES ON THE SOUTH SIDE OF S.R. 229 DURING PHASE 1 CONSTRUCTION.

PHASE 1:
DURING PHASE 1, TRAFFIC WILL BE SHIFTED TO THE EXISTING PAVEMENT ON THE NORTH SIDE (WESTBOUND) OF S.R. 229 AND REDUCED TO A SIGNALIZED ONE LANE, TWO-WAY TRAFFIC TO ALLOW CONSTRUCTION TO BE PERFORMED ON THE SOUTH SIDE OF S.R. 229. THROUGHOUT THE WORK AREA, THE LANE SHALL BE 10.0' WITH 1.0' PORTABLE BARRIER OFFSET AND A 2.0' SHOULDER MAXIMUM. THE CONTRACTOR SHALL INSTALL ALL PORTABLE BARRIER, SIGNS, AND PAVEMENT MARKINGS AS SHOWN ON SHEET P.19. INSTALL THE TEMPORARY TRAFFIC SIGNALS AS SHOWN TO BE USED DURING PHASES 1 AND 2. CONTRACTOR SHALL COMPLETE ALL ROADWAY AND PROPOSED CULVERT WORK TO THE LIMITS SHOWN DURING THIS PHASE. THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE ASPHALT AND GRAVEL DRIVES AT ALL TIME. CONSTRUCT TEMPORARY PAVEMENT ON THE SOUTH SIDE OF S.R. 229 TO THE LIMITS SHOWN ON SHEET P.20 TO BE USED DURING PHASE 2.

PHASE 2:
DURING PHASE 2, TRAFFIC WILL BE SHIFTED TO THE NEWLY CONSTRUCTED PAVEENT AND EXISTING PAVEMENT ON THE SOUTH SIDE (EASTBOUND) OF S.R. 229 AND REDUCED TO A SIGNALIZED ONE LANE, TWO-WAY TRAFFIC TO ALLOW CONSTRUCTION TO BE PERFORMED ON THE NORTH SIDE OF S.R. 229. THROUGHOUT THE WORK AREA, THE LANE SHALL BE 10.0' WITH 1.0' PORTABLE BARRIER OFFSET AND A 2.0' SHOULDER MAXIMUM. THE CONTRACTOR SHALL INSTALL ALL PORTABLE BARRIER, SIGNS, AND PAVEMENT MARKINGS AS SHOWN ON SHEET P.20. CONTRACTOR SHALL COMPLETE ALL ROADWAY AND PROPOSED CULVERT WORK TO THE LIMITS SHOWN DURING THIS PHASE. THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE ASPHALT AND GRAVEL DRIVES AT ALL TIME.

CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES AND RETURN THE FLOW OF TRAFFIC TO THE TYPICAL CONFIGURATION ONCE ALL PROPOSED WORK HAS BEEN COMPLETED. PLACE THE FINAL PAVEMENT MARKINGS PRIOR TO OPENING TRAFFIC FOR S.R. 229.

MAINTENANCE OF TRAFFIC NOTES

DESIGN AGENCY
BG
www.bgenggroup.com
5960 WILCOX PLACE, SUITE C
DUBLIN, OHIO 43016

DESIGNER JEP
REVIEWER RG 11-18-25
PROJECT ID 107754
SHEET P.12 TOTAL P.136

DEL-229-0.45 AND VARIOUS

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 4/2/2026 TIME: 9:31:23 AM USER: lafluru
P:\Transportation\WorkSets\107754_DEL-229-00021400-Engineering\MOT\Sheets\107754_MN001.dgn

SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P.13	P.14		P.79		P.83B		P.86				OFFICE CALCS	01/STR	02/STR						
25												25		253	02000	25	CY	PAVEMENT REPAIR	
											547	135	412	254	01000	547	SY	PAVEMENT PLANING, ASPHALT CONCRETE (1.5")	
											353	94	259	301	56000	353	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
											319	87	232	304	20000	319	CY	AGGREGATE BASE	
50											368	172	246	407	20000	418	GAL	NON-TRACKING TACK COAT	
	10												10	410	12000	10	CY	TRAFFIC COMPACTED SURFACE, TYPE A OR B	
25											170	81	114	441	70000	195	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	
25												25		617	10100	25	CY	COMPACTED AGGREGATE	
																		TRAFFIC CONTROL	
			6									2	4	621	00100	6	EACH	RPM	
			6									2	4	621	54000	6	EACH	RAISED PAVEMENT MARKER REMOVED	
			18									18		626	00102	18	EACH	BARRIER REFLECTOR, TYPE 1 (BI-DIRECTIONAL)	
			41									22	19	626	00112	41	EACH	BARRIER REFLECTOR, TYPE 3 (BI-DIRECTIONAL)	
			35									23	12	630	03100	35	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
			1										1	630	08600	1	EACH	SIGN POST REFLECTOR	
			21.5									12.5	9	630	80100	21.5	SF	SIGN, FLAT SHEET	
			4									2	2	630	84900	4	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
			3									2	1	630	86002	3	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
			0.54									0.34	0.2	642	00104	0.54	MILE	EDGE LINE, 6", TYPE 1	
0.1			0.27									0.27	0.1	642	00300	0.37	MILE	CENTER LINE, TYPE 1	
																		STRUCTURE 20 FOOT SPAN AND UNDER (DEL-00229-00.360)	
					LS								LS	202	11201	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	P.83A
					76								76	202	23500	76	SY	WEARING COURSE REMOVED	
					LS								LS	503	11100	LS		COFFERDAMS AND EXCAVATION BRACING	
					89								89	503	21100	89	CY	UNCLASSIFIED EXCAVATION	
					7,663								7,663	509	10000	7,663	LB	EPOXY COATED STEEL REINFORCEMENT	
					944								944	509	25000	944	LB	UNCOATED STEEL REINFORCEMENT	
					148								148	510	10001	148	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN	P.83A
					40								40	511	33412	40	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE	
					4								4	511	45710	4	CY	CLASS QC1 CONCRETE, ABUTMENT	
					179								179	512	10050	179	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	
					36								36	516	13200	36	SF	½" PREFORMED EXPANSION JOINT FILLER	
					30								30	516	13600	30	SF	1" PREFORMED EXPANSION JOINT FILLER	
					11								11	516	13900	11	SF	2" PREFORMED EXPANSION JOINT FILLER	
					82								82	516	14020	82	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	
					72								72	516	31011	72	FT	2" DEEP JOINT SEALER, AS PER PLAN	P.83A
					50								50	518	21200	50	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
					32								32	SPECIAL	51822300	32	FT	STEEL DRIP STRIP	P.83E
																		STRUCTURE OVER 20 FOOT SPAN (DEL-00229-00.930)	
							LS					LS		202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	P.85
							LS					LS		503	11100	LS		COFFERDAMS AND EXCAVATION BRACING	
							20,537					20,537		509	10000	20,537	LB	EPOXY COATED STEEL REINFORCEMENT	
							100					100		509	20001	100	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN	P.85
							303					303		509	26001	303	LB	GALVANIZED STEEL REINFORCEMENT, AS PER PLAN	P.85
							120					120		510	10001	120	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN (9" DOWELS)	P.85
							119					119		511	34444	119	CY	CLASS QC2 CONCRETE, BRIDGE DECK	
							3					3		511	40510	3	CY	CLASS QC1 CONCRETE, PIER ABOVE FOOTINGS	

GENERAL SUMMARY

DEL-229-0.45 AND VARIOUS

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 4/2/2026 TIME: 9:31:36 AM USER: lalluru
P:\Transportation\WorkSets\107754_DEL-229-0021\400-Engineering\Roadway\Sheets\107754_GG002.dgn

DESIGN AGENCY
BG
www.bgengroup.com
5960 WILCOX PLACE, SUITE C
DUBLIN, OHIO 43016

DESIGNER JEP

REVIEWER RG 9-9-25

PROJECT ID 107754

SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P.74		P.86		P.99		P.113						01/STR	02/STR						
		161										161		512	10050	161	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	
		6										6		512	10600	6	FT	CONCRETE REPAIR BY EPOXY INJECTION	
		66										66		516	10501	66	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC COMPRESSION SEAL, AS PER PLAN	P.85
		8										8		516	46201	8	EACH	BEARING DEVICE, ROCKER, AS PER PLAN	P.85
		LS										LS		516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	P.85
		562										562		517	70100	562	FT	RAILING (THREE STEEL TUBE BRIDGE RAILING)	
		684										684		SPECIAL	51822300	684	FT	STEEL DRIP STRIP	P.92
		331										331		519	11101	331	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	P.85
		5										5		601	32100	5	CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	
		860										860		848	10201	860	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (1.75" THICK)	P.85
		680										680		848	20001	680	SY	SURFACE PREPARATION USING HYDRODEMOLITION, AS PER PLAN	P.85
		6										6		848	30201	6	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	P.85
		102										102		848	50001	102	SY	HAND CHIPPING, AS PER PLAN	P.85
		LS										LS		848	50101	LS		TEST SLAB, AS PER PLAN	P.85
		4										4		848	50201	4	CY	FULL DEPTH REPAIR, AS PER PLAN	P.95
																		STRUCTURE OVER 20 FOOT SPAN (DEL-00229-01.490)	
				LS								LS		202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	P.98
				22,922								22,922		509	10000	22,922	LB	EPOXY COATED STEEL REINFORCEMENT	
				580								580		509	20001	580	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN	P.98
				74								74		511	32210	74	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE	
				62								62		512	10050	62	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	
				28								28		512	10600	28	FT	CONCRETE REPAIR BY EPOXY INJECTION	
				272								272		517	70100	272	FT	RAILING (THREE STEEL TUBE BRIDGE RAILING)	
				314								314		SPECIAL	51822300	314	FT	STEEL DRIP STRIP	P.105
				100								100		519	11101	100	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	P.98
				520								520		848	10201	520	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (2" THICK)	P.98
				380								380		848	20001	380	SY	SURFACE PREPARATION USING HYDRODEMOLITION, AS PER PLAN	P.98
				4								4		848	30201	4	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	P.98
				57								57		848	50001	57	SY	HAND CHIPPING, AS PER PLAN	P.98
				LS								LS		848	50101	LS		TEST SLAB, AS PER PLAN	P.98
				11								11		848	50201	11	CY	FULL DEPTH REPAIR, AS PER PLAN	P.107
				380								380		848	50320	380	SY	EXISTING CONCRETE OVERLAY REMOVED (1 ¼" THICK)	
																		STRUCTURE 20 FOOT SPAN AND UNDER (CFN 1997557)	
LS													LS	503	11100	LS		COFFERDAMS AND EXCAVATION BRACING	
60													60	503	21100	60	CY	UNCLASSIFIED EXCAVATION	
2,789													2,789	509	10000	2,789	LB	EPOXY COATED STEEL REINFORCEMENT	
6													6	511	46010	6	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING	
19													19	511	46510	19	CY	CLASS QC1 CONCRETE, FOOTING	
1													1	511	46610	1	CY	CLASS QC1 CONCRETE, HEADWALL	
32													32	512	10050	32	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	
95													95	512	33000	95	SY	TYPE 2 WATERPROOFING	
81													81	512	33010	81	SY	TYPE 3 WATERPROOFING	
24													24	516	13600	24	SF	1" PREFORMED EXPANSION JOINT FILLER	

GENERAL SUMMARY

DEL-229-0.45 AND VARIOUS

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 4/2/2026 TIME: 9:31:36 AM USER: lialuru
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DESIGN AGENCY
BG
www.bgengroup.com
5960 WILCOX PLACE, SUITE C
DUBLIN, OHIO 43016

DESIGNER
JEP

REVIEWER
RG 9-9-25

PROJECT ID
107754

SHEET P.24 TOTAL P.136

ESTIMATED QUANTITIES						CALCULATED BY GLA DATE 10/16/2024			CHECKED BY SB DATE 10/23/2024	
ITEM	ITEM EXT.	TOTAL	PART. 01/STR	UNITS	DESCRIPTION	STRUCTURE FILE NUMBER 2102730 ABUTS.	PIERS	SUPER.	GENERAL	SHT. REF.
202	11203	LUMP	LUMP		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LUMP	2, 4, 5
503	11100	LUMP	LUMP		COFFERDAMS AND EXCAVATION BRACING				LUMP	
509	10000	20537	20537	LB	EPOXY COATED STEEL REINFORCEMENT			20537		
509	20001	100	100	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN			100		2
509	26001	303	303	LB	GALVANIZED STEEL REINFORCEMENT, AS PER PLAN		303			2
510	10001	120	120	EA	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN (9" DOWELS)		120			2
511	34444	119	119	CY	CLASS QC2 CONCRETE, BRIDGE DECK			119		
511	40510	3	3	CY	CLASS QC1 CONCRETE, PIER ABOVE FOOTINGS		3			
512	10050	161	161	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)		18	143		
512	10600	6	6	FT	CONCRETE REPAIR BY EPOXY INJECTION	6				
516	10501	66	66	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC COMPRESSION SEAL, AS PER PLAN			66		2
516	46201	8	8	EA	BEARING DEVICE, ROCKER, AS PER PLAN			8		2
516	47001	LUMP	LUMP		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN			LUMP		2
517	70100	562	562	FT	RAILING (THREE STEEL TUBE BRIDGE RAILING)			562		
518	22300	684	684	FT	SPECIAL - STEEL DRIP STRIP			684		
519	11101	331	331	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN		331			2
848	10201	860	860	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (1 3/4" THICK)			860		
848	20001	680	680	SY	SURFACE PREPARATION USING HYDRODEMOLITION, AS PER PLAN			680		
848	30201	6	6	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN			6		
848	50001	102	102	SY	HAND CHIPPING , AS PER PLAN			102		
848	50101	LUMP	LUMP		TEST SLAB, AS PER PLAN			LUMP		
848	50201	4	4	CY	FULL DEPTH REPAIR, AS PER PLAN			4		12

NOTE: ROCK CHANNEL PROTECTION AND PORTABLE BARRIER QUANTITIES CARRIED WITH ROADWAY QUANTITIES.

ESTIMATED QUANTITIES
BRIDGE NO. DEL-00229-00.930
S.R. 229 OVER OLENTANGY RIVER

SFN 2102730

DESIGN AGENCY
BG
www.bgeenggroup.com
5960 WILCOX PLACE, SUITE C
DUBLIN, OHIO 43016

DESIGNER	CHECKER
GLA	RG

REVIEWER
GTB 10-30-24

PROJECT ID
107754

SUBSET	TOTAL
3	13

SHEET	TOTAL
P.86	P.136

DEL-229-0.45 AND VARIOUS

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 4/2/2026 TIME: 9:31:43 AM USER: tatluru
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ESTIMATED QUANTITIES						CALCULATED BY GLA DATE 10/16/2024			CHECKED BY SB DATE 10/23/2024	
						STRUCTURE FILE NUMBER 2102765				
ITEM	ITEM EXT.	TOTAL	PART. 01/STR	UNITS	DESCRIPTION	ABUTS.	PIERS	SUPER.	GENERAL	SHT. REF.
202	11203	LUMP	LUMP		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LUMP	2, 4
509	10000	22922	22922	LB	EPOXY COATED STEEL REINFORCEMENT			22922		
509	20001	580	580	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN			580		2
511	32210	74	74	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE			74		
512	10050	62	62	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)			62		
512	10600	28	28	FT	CONCRETE REPAIR BY EPOXY INJECTION	28				
517	70100	272	272	FT	RAILING (THREE STEEL TUBE BRIDGE RAILING)			272		
518	22300	314	314	FT	SPECIAL - STEEL DRIP STRIP			314		
519	11101	100	100	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	100				2
601	32100	5	5	CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	5				
848	10201	520	520	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (2" THICK)			520		
848	20001	380	380	SY	SURFACE PREPARATION USING HYDRODEMOLITION, AS PER PLAN			380		
848	30201	4	4	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN			4		
848	50001	57	57	SY	HAND CHIPPING, AS PER PLAN			57		
848	50101	LUMP	LUMP		TEST SLAB, AS PER PLAN			LUMP		
848	50201	380	380	CY	FULL DEPTH REPAIR, AS PER PLAN			11		11
848	50320	380	380	SY	EXISTING CONCRETE OVERLAY REMOVED (1 ¼" THICK)			380		

NOTE: PORTABLE BARRIER QUANTITIES CARRIED WITH ROADWAY QUANTITIES.

ESTIMATED QUANTITIES
BRIDGE NO. DEL-00229-01.490
S.R. 229 OVER BRONDIGE RUN

SFN 2102765

DESIGN AGENCY
BG
www.bgenggroup.com
5960 WILCOX PLACE, SUITE C
DUBLIN, OHIO 43016

DESIGNER	CHECKER
GLA	RG

REVIEWER GTB 10-30-24

PROJECT ID 107754

SUBSET	TOTAL
3	13

SHEET	TOTAL
P.99	P.136

DEL-229-0.45 AND VARIOUS

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 4/2/2026 TIME: 9:31:44 AM USER: ltalluru
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