

ITEM 632 - DETECTOR LOOP, AS PER PLAN

THE CONTRACTOR SHALL CONTACT THE CITY OF AKRON (330-375-2015) THREE WORKING DAYS PRIOR TO ANY PLANING OR TRENCHING AT THE FOLLOWING INTERSECTIONS:

SR 764 @ VIRGINIA AVE
SR 764 @ SEIBERLING ST

LOOP DETECTORS DISTURBED BY PAVEMENT PLANING OR TRENCHING SHALL BE ABANDONED IN PLACE. THE LOOP DETECTOR WIRE WILL BE CUT INTO THE PAVEMENT AFTER THE PROPOSED SURFACE COURSE HAS BEEN PLACED. ALL STOP LINE INDUCTANCE DETECTOR LOOPS SHALL BE THE POWERHEAD CONFIGURATION SHOWN ON TC-82.10. THE WIDTH SHALL BE AS SPECIFIED ON TC-82.10 AND THE LENGTH SHALL BE AS SPECIFIED BELOW. THE LOCATION OF THESE LOOPS SHALL BE SUCH THAT THE POWERHEAD IS LOCATED AT THE STOP LINE, NOT PAST IT. ALL DILEMMA ZONE INDUCTANCE DETECTOR LOOPS CALLED FOR IN THE PLANS SHALL BE THE ANGULAR DESIGN DETECTION (ADD) LOOP AS SHOWN ON TC-82.10. DIMENSIONS SHALL BE AS SPECIFIED ON TC-82.10 AND THE LOOP SHALL BE PLACED AT THE SAME LOCATION AS THE EXISTING LOOPS.

THE QUANTITIES LISTED BELOW HAVE BEEN CARRIED TO THE GENERAL SUMMARY. THE NEW LOOP DETECTOR WIRES SHALL BE RUN INTO THE EXISTING CONTROL BOX OR THE EXISTING PULLBOX. INCLUDED IN THIS ITEM IS THE POURED EPOXY TYPE CABLE SPLICE KIT (CONFORMING TO 725.15E) THAT MUST BE USED IN MAKING THESE CONNECTIONS. ALL NECESSARY MATERIAL, LABOR, SPLICE KITS AND EQUIPMENT SHALL BE INCIDENTAL TO PAYMENT OF THESE ITEMS.

632 DETECTOR LOOP, AS PER PLAN, 4 EACH
(4 EACH, POWERHEAD, 25')

ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL OR BIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARDS APPROVED PRODUCTS WEB PAGE.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS AND CARRIED TO THE GENERAL SUMMARY:

ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS, (UNIDIRECTIONAL) 2 EACH

DELINEATION OF PORTABLE AND PERMANENT BARRIER

BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE BARRIER (PB) USED FOR TRAFFIC CONTROL; AND, ON PERMANENT CONCRETE BARRIER (INCLUDING BRIDGE PARAPETS) LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE.

BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THE SPACING SHALL BE AS PER TRAFFIC SCD MT-101.70. OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614.03 AND SCD MT-101.70. WHEN THE PB CONTAINS GLARE SCREEN, ONE SET OF THREE VERTICAL STRIPES OF SHEETING SHALL BE CONSIDERED EQUIVALENT TO AN OBJECT MARKER, ONE-WAY.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS AND CARRIED TO THE GENERAL SUMMARY:

ITEM 614, BARRIER REFLECTOR, TYPE 1 (BIDIRECTIONAL) 6 EACH
ITEM 614, OBJECT MARKER, TWO-WAY 6 EACH

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING EACH OF THE ABOVE ITEMS.

Added Notes

DESIGN AGENCY



DESIGNER

CMW

REVIEWER

MJA 2-18-22

PROJECT ID

102737

SHEET TOTAL

P.8 24

CALC:	CMW	DATE:	12/28/2021
CHECKED:	MJA	DATE:	2/18/2022

ESTIMATED QUANTITIES

BRIDGE NO. / STRUCTURE FILE NO.							ITEM	EXTENSION	UNIT	DESCRIPTION	SEE SHEET
SUM-764-0375 7711225 05/S>2/BR											
	LS					201	11001		CLEARING AND GRUBBING, AS PER PLAN		1/4
	1					202	42000	EACH	ANCHOR ASSEMBLY REMOVED, TYPE A		
	662					512	10050	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)		
	662					512	74000	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES		
	720					513	90000	LB	STRUCTURAL STEEL, MISC.: REPLACEMENT OF DAMAGED CROSSFRAMES		
	100					513	90000	LB	STRUCTURAL STEEL, MISC.:STEEL BEAM REPAIRS		
	LS					514	00200		FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT		
	LS					514	00300		FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT		
	LS					514	00400		FIELD PAINTING STRUCTURAL STEEL, FINISH COAT		
	14					514	00504	MNHR	GRINDING FINIS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL		
	6					514	10000	EACH	FINAL INSPECTION REPAIR		
	LS					514	00100		SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL		
	LS					516	47001		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN		1/4
	12					516	45305	EACH	REFURBISH BEARING DEVICE, AS PER PLAN		1/4
	72					516	10901	FT	ELASTOMERIC COMPRESSION SEAL, AS PER PLAN		1/4
	450					519	11101	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN		2/4
	1					606	26150	EACH	ANCHOR ASSEMBLY, MGS TYPE E, MASH 2016		
	1					630	80100	SF	SIGN, FLAT SHEET, 730.20		
	6					630	80100	SF	SIGN, FLAT SHEET		
	3					630	84900	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL		
	21					630	02100	FT	GROUND MOUNTED SUPPORT, NO. 2 POST		
	2					630	86002	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL		
	20					SPECIAL	53000500	HOOR	STRUCTURES, SALT REMEDIATION FOR STRUCTURE STEEL PAINTING		
	150					SPECIAL	51900100	SF	COMPOSITE FIBER WRAP SYSTEM		
	20					SPECIAL	53000800	SY	STRUCTURES, CONCRETE SPALL REMOVAL		

150
20

Updated quantity

BRIDGE ESTIMATED QUANTITIES
 SUM-764-03.75
 OVER METRO RTA RR

DESIGN AGENCY



DESIGNER

CMW

REVIEWER

MJA 2-18-22

PROJECT ID

102737

SUBSET TOTAL

3 4

SHEET TOTAL

P.23 24