

A d d e n d u m

Iowa Department of Transportation
Office of Contracts

Date of Letting: March 17, 2015
Date of Addendum: March 16, 2015

B.O.	Proposal ID	Proposal Work Type	County	Project Number	Addendum
154	11-7422-617	HMA PAVEMENT WIDENING / HMA RESURFACING	BUENA VISTA	STP-U-7422(617)--70-11	17MAR154.A02

Make the following changes to the Plans:

Replace sheet N.01 with the attached sheet.

BILL OF MATERIALS

ITEM	ITEM CODE	DESCRIPTION	UNIT	TOTAL QUANTITY	AS BUILT QUANTITY
CONTROLLER CABINET		16 PHASE CABINET W/ACCESSORIES	EACH	1	
DETECTOR UNITS		CABINET MOUNTED POWER DISCONNECT BOX/METER SOCKET	EACH	1	
TRAFFIC SIGNAL HEADS		VIDEO TRAFFIC DETECTOR	EACH	4	
		RESTRICTION PUSHBUTTON	EACH	2	
		12" LED R.Y.G. MASTARM MOUNT	EACH	3	
		12" LED R.Y.G. SIDE OF POLE MOUNT	EACH	4	
		12" LED R.Y.G. MASTARM MOUNT	EACH	2	
		12" LED R.Y.G. SIDE OF POLE MOUNT	EACH	2	
		12" LED R.Y.G. MASTARM MOUNT	EACH	1	
		12" LED R.Y.G. SIDE OF POLE MOUNT	EACH	1	
HANDHOLES		PRECAST CONCRETE HANDHOLE (TYPE 1)	EACH	6	
		SIGNAL - 700 #14	FT.	300	
		SIGNAL - 12" #14 (RR)	FT.	95	
		SIGNAL - 12" #10 (LUM)	FT.	400	
		VIDEO - 30" #16	FT.	300	
		VIDEO - 30" #16	FT.	300	
WIRE AND CABLE		POWER - 1C #6	FT.	253	
		GROUND - 1C #6 (INSULATED)	FT.	323	
		TRACER - 1C #10	FT.	485	
DETECTOR SARCUT		2" PVC, TRENCHED	FT.	130	
		3" PVC, TRENCHED	FT.	15	
		2" PVC, TRENCHED	FT.	155	
		4" PVC, PUSHED	FT.	120	
CONDUIT		CONDUCTOR SHALL BE RIGID P.V.C. OR INNERDUCT CONDUIT, UNLESS OTHERWISE NOTED.			
		CONTROLLER CABINET FOOTING	EACH	1	
		3'-0" DIA. X 11'-0" (TYPE A)	EACH	4	
CONCRETE FOOTINGS		SIGNAL MASTARM - 15 feet	EACH	1	
		SIGNAL MASTARM - 35 feet	EACH	1	
		COMBO SIGNAL/LIGHTING POLE - 30' MASTARM	EACH	1	
		COMBO SIGNAL/LIGHTING POLE - 35' MASTARM	EACH	1	
TRAFFIC SIGNAL POLES		LUMINAIRE-LED	EACH	2	
		0-1 SIGN (18" X 84")	EACH	2	
		0-2 SIGN (18" X 80")	EACH	2	
		0-3 SIGN (18" X 18")	EACH	2	
		R10-1 SIGN (12" X 18")	EACH	4	
		R10-3ML SIGN (9" X 12")	EACH	1	
		R10-3MR SIGN (9" X 12")	EACH	1	
		R10-X12 SIGN (36" X 48")	EACH	2	
		SIGNAL MOUNTING BRACKET (SIDE OF POLE MOUNT)	EACH	7	

- TRAFFIC SIGNAL GENERAL NOTES:
- ALL QUANTITIES SHOWN IN THE PLANS AND SPECIFICATIONS ARE FOR INFORMATIONAL AND ESTIMATING PURPOSES ONLY. THE CONTRACTOR'S LUMP SUM BID FOR THIS PROJECT SHALL INCLUDE ALL LABOR AND MATERIAL NECESSARY TO PROVIDE A COMPLETE AND FUNCTIONAL TRAFFIC SIGNAL INSTALLATION, IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS.
 - THE PLAN LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO EXCAVATION ON THE PROJECT TO ESTABLISH LOCATIONS.
 - THE LOCATIONS OF ALL FOOTINGS, HANDHOLES, DETECTOR LOOPS, AND CONDUIT ARE TO BE COORDINATED WITH THE ENGINEER AND ARE SUBJECT TO ADJUSTMENT IN THE FIELD BY THE ENGINEER.
 - THE CONTRACTOR SHALL FURNISH AND INSTALL ONE SIGNAL CABLE FROM EACH SIGNAL HEAD TO THE BASE OF THE POLE. A CONDUCTOR CABLE SHALL BE USED IN THE POLE FOR A SECTION OF THE SIGNAL HEAD. A 5-CONDUCTOR CABLE SHALL BE USED IN THE POLES FOR ALL OTHER 3 AND 4-SECTION VEHICLE HEADS.
 - THE BODY OF THE SIGNAL HEAD HOUSING SHALL BE OF THE BLACK POLYCARBONATE TYPE.
 - INSTALL A NO. 6 A.W.G. BARE COPPER GROUND WIRE BETWEEN THE GROUND RODS IN THE SIGNAL FOOTINGS AND THE CONTROLLER CABINET TO FORM A CONTINUOUSLY GROUNDED SYSTEM. THE GROUND WIRE SHALL BE INSTALLED IN ALL CONDUITS WITH THE EXCEPTION OF THE 1 INCH CONDUIT BETWEEN THE DETECTOR LOOPS AND THE HANDHOLE, AND ANY CONDUIT CONTAINING ONLY DETECTOR LEAD-IN CABLE.
 - ALL CONDUIT SHALL BE RIGID P.V.C. OR INNERDUCT CONDUIT, UNLESS OTHERWISE NOTED.
 - CONTROLLERS AND CABINET HARDWARE SHALL BE EXPANSIBLE TO PROVIDE THE NUMBER OF PHASES AS INDICATED ON THE TRAFFIC SIGNAL PHASING AND TIMING SHEET.
 - ALL DETECTOR UNITS SHALL BE PROVIDED WITH DELAY AND EXTENSION TIMING. THE DELAY INHIBIT ON EACH UNIT SHALL BE IN EFFECT DURING THE ASSOCIATED GREEN PHASE.
 - ALL SECONDARY SERVICE POINTS WILL BE FIELD LOCATED. PROVIDE METER SOCKET ON CONTROLLER CABINET AND CONSTRUCT SERVICE RISERS FOR SIGNALS. ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO ESTABLISH SECONDARY SERVICE SHALL BE INCLUDED IN THE TRAFFIC SIGNALIZATION ITEM.
 - CONTRACTOR SHALL FURNISH A SCHEDULE OF UNIT PRICES FOR EACH ITEM LISTED IN THE ESTIMATE OF TRAFFIC SIGNAL QUANTITIES.
 - THE NEW COMBO SIGNAL/LIGHTING POLE SHALL HAVE A 30' MOUNTING HEIGHT, 15' MASTARMS, AND AN LED FIXTURE.
 - MATERIALS AND CONSTRUCTION SHALL COMPLY WITH IOWA SUDAS STANDARD SPECIFICATIONS FOR TRAFFIC SIGNALS.
 - THE TRAFFIC SIGNAL SHALL BE INTERCONNECTED TO THE RAILROAD. THE CONTRACTOR SHALL COORDINATE DIRECTLY WITH HARLAN ARTIANS OF CANADIAN NATIONAL RAILROAD.
 - PUSHBUTTONS 801 AND 802 SHALL BE INSTALLED TO ENABLE CROSSING THE INTERSECTION NORTH/SOUTH. THE PUSHBUTTONS WILL TURN THE PHASE 8 VEHICLE INDICATIONS GREEN BUT WILL INTERNALLY USE THE WALK/BOOT WALK TIMINGS.
 - SIGNAL EQUIPMENT SHALL MATCH THE CITY OF STORM LAKE EXISTING EQUIPMENT INVENTORY AS SUPPLIED BY GENERAL TRAFFIC CONTROLS. THIS INCLUDES PEEL TRAFFIC CONTROLLER MODEL ATC1000, PEEL CONFLICT MONITOR MODEL CD-MMU, PEEL ALUMINUM NATURAL FINISH TRAFFIC SIGNAL CABINET WITH OPS, AND PEEL VIDEO TRAKTO DETECTION EQUIPMENT TO MAINTAIN UNIFORMITY AND ENSURE COMPATIBILITY FOR MAINTENANCE ACTIVITIES.
 - LED LUMINAIRES SHALL BE AMERICAN ELECTRIC LIGHTING ATB2-60BLEDE10-WVOLT-R3-NL-P7-SH, COPPER LIGHTING, NVA-ME-30-02-U-2R-10K-700-4N7-AP-INNDOT, PHILIPS RWI90112LEDK-R-LE2-UNIV-AP1-(RC-0201)-PH9-GY3, OR APPROVED EQUAL BY THE ENGINEER.
 - ALL ELECTRICAL EQUIPMENT AND CONNECTIONS SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE.
 - FURNISH AND INSTALL PRECAST CONCRETE COLLARS WITH ALL HANDHOLES.
 - NEW SIGNAL MASTARM POLES AND LUMINAIRE EXTENSIONS SHALL BE GALVANIZED.
 - SIGNAL HEAD HOUSINGS SHALL BE BLACK POLYCARBONATE.