



To: Marshall Fire Department
201 East Saratoga Street
Marshall, MN 56258

Attention: Quentin Brunsvold
Fire Chief
Quentin.Brunsvold@ci.marshall.mn.us

Project: 2020 Fire Station Electrical Up-Grades

Location: 201 Esat Saratoga Street

Subject: Proposal – in accordance with owner provided **scope of work** Rev. 4 TA dated 6/5/2020

Description: As listed below

MARSHALL FIRE STATION 2020 NEW SERVICE AND GEAR
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ITEM	DESCRIPTION	QTY.
1	A. PROVIDE AND INSTALL 600V 400A 208/120V 3PH AUTOMATIC TRANSFER SWITCH ASCO 300 OPEN TRANSITION NEMA 3R ENCLOSURE	1
	LOCATE EXITING SECONDARY SERVICE CONDUIT AND CONDUCTORS	1
	AUGUR 18" DIA X 60" DEEP OPENING FOR TRANSFER SWITCH SUPPORT FOUNDATION	2
	INSTALL 18" DIA SONO TUBE IN AUGURED OPENINGS	8
	POUR CONCRETE FOUNDATIONS 4000LBS GRANITE	1
	PROVIDE AND INSTALL ANCHORED BOLTS IN POURED FOUNDATIONS	8
	INSTALL TRANSFER SWITCH CUSTOM FABRICATED SUPPORT STRUCTURE (PROVIDE BY BEND-RITE)	1
	INSTALL TRANSFER SWITCH ON CUSTOM FABRICATED SUPPORT STRUCTURE	LOT
	SHUT-DOWN 1	
	REMOVE EXITING SECONDARY CONDUCTORS FROM UTILITY TRANSFORMER TO EXISTING MAIN CIRCUIT BREAKER	1
	EXCAVATE ON EITHER SIDE OF NEW TRANSFER SWITCH TO EXPOSE EXISTING SECONDARY CONDUITS	1

Electrical Contracting and Service

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	INTERCEPT EXISTING SECONDARY CONDUITS, CUT AND MODIFY EXISTING CONDUITS AS NECESSARY AND EXTENT TO THE NEW TRANSFER SWITCH	1
	PROVIDE AND INSTALL NEW SECONDARY SERVICE LATERAL FROM UTILITY TRANSFORMER TO NEW TRANSFER SWITCH	1
	SOUTHWIRE 250MCM XHHW ALU (8) RUNS	180'
	PROVIDE AND INSTALL NEW 5-WIRE FEEDER CONDUCTORS FROM NEW TRANSFER SWITCH TO EXISTING MAIN SWITCH ***UTILIZING THE EXISTING UNDERGROUND CONDUITS AND RISER***	
	SOUTHWIRE 250MCM XHHW ALU (8) RUNS	880'
	SOUTHWIRE #1AWG XHHW ALU (2) RUNS	220'

	PROVIDE AND INSTALL GROUNDING ELECTRODES AND CONDUCTORS PER CODE AT NEW TRANSFER SWITCH	1
	REMOVE MAIN BONDING JUMPER IN EXISTING MAIN DISTRIBUTION PANEL	1
	SEPARATE GROUNDED CONDUCTORS FROM EQUIPMENT GROUND WIRES IN EXISTING MAIN DISTRIBUTION PANEL	1

	ENERGIZE NEW SERVICE TOT TRANSFER SWITCH	1
	ENERGIZE EXISTING MAIN DISTRIBUTION PANEL FROM	1
	CONFIRM ROTATION	1

SHUT-DOWN 2

2	REMOVE EXISTING STEP-DOWN TRANSFORMER	1
	MMU REMOVES AND REPLACES THEIR EXISTING 225HVA TRANSFORMER WITH A NEW 75KVA 120/208V Y 3PH RE-TERMINATES EXISTING SECONDARY CONDUCTORS	1
	PROVIDE AND INSTALL NEW 112.5KVA 208:480V STEP-UP TRANSFORMER	1
	PROVIDE AND INSTALL NEW 350A BRANCH CIRCUIT FROM MDC ENCLOSURE TO NEW TRANSFORMER	LOT

3	REMOVE MDP LEFT-SIDE	1
	RELOCATE / EXTEND EXISTING VEHICLE EXHAUST CIRCUITS TO NEW 2LP PANEL ENCLOSURE	1
	RELOCATE / EXTEND EXISTING SCBA AIR COMPRESSOR CIRCUITS TO NEW 2LP PANEL ENCLOSURE	1

4	REMOVE EXISTING MDP RIGHT SIDE INTERIOR	1
	PROVIDE AND INSTALL NEW RETRO-FILL MDC AND CUSTOM COVER	1
	CONNECT MDC 400A MAIN CIRCUIT BREAKER TO EXISTING (NEW) 5-WIRE FEEDER	1

5	REPLACE EXISTING PANEL P1 WITH NEW RETROFILL PANEL 120/208V 3PH 225A MLO	1
	PROVIDE AND INSTALL NEW 225A FEEDER FROM NEW MDC TO NEW PANEL P1	LOT
	RE-CONNECT 3-POLE CIRCUIT BREAKERS	6

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	RE-CONNECT 2-POLE CIRCUIT BREAKERS	2
	RELOCATE / EXTEND EXISTING AIR COMPRESSOR CIRCUITS TO NEW P1 PANEL ENCLOSURE	1

6	REPLACE EXISTING PANEL 2LP WITH NEW RETROFILL 2LP 480V 3PH 100A MCB 42-CKT AND CUSTOM COVER	1
	RECONNECT EXISTING 3-POLE CIRCUITS	4
	RE-CONNECT EXISTING 1-POLE CIRCUITS	18
	FEED NEW PANEL LP2 FROM NEW 112.5 KVA TRANSFORMER 100A 4-WIRE	LOT

7	REPLACE EXISTING PANEL LP2 WITH NEW RETROFILL 120/208V 3PH 100A MLO AND CUSTOM COVER	1
	RECONNECT EXISTING 2-POLE CIRCUITS	3
	RE-CONNECT EXISTING 1-POLE CIRCUITS	16

8	REMOVE EXISTING PANEL 120/208V PANEL E1	
	RELOCATE EXISTING 120V CIRCUITS TO PANEL P1	4

9	REMOVE TRANSFORMER T2 (SMALL WAL MOUNT)	1
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10	REMOVE EXISTING PANEL 2E	
	RELOCATE EXISTING 480V 3-POLE NORTH AND SOUTH DOOR CIRCUIT TO NEW PANEL 2LP	2
	RELOCATE EXISTING 480V 1-POLE CIRCUITS TO NEW PANEL 2LP	3

11	ADD 3-WAY SWITCH TO TOP OF MEZZANINE LEVEL	1
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PROPOSAL TOTAL INCLUDING SALES TAX AND ELECTRICAL INSPECTION FEES		\$ 31,740.00
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ALTERNATE ADD ITEM - MARSHALL FIRE STATION 2020 NEW STANDBY GENERATOR

ITEM	DESCRIPTION	QTY.
	100KW 120/208V 3PH OUT-DOOR GENERATOR	1
	CONTROL CIRCUITS TO ATS	LOT
	SHORE POWER FROM KITCHEN PANEL TO GENERATOR	LOT
	(CONCRETE PAD PROVIDED AND INSTALLED BY OWNER)	0
	(NATURAL GAS CONNECTION AND REGULATORS INSTALLED AND PROVIDED BY OTHERS)	0

PROPOSAL TOTAL INCLUDING SALES TAX AND ELECTRICAL INSPECTION FEES		\$ 35,040.00
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Mike Meier

This proposal is Valid for 30 days

ACCEPTANCE OF PROPOSAL

The above prices, specifications and conditions are hereby accepted. You are authorized to do the work as specified.

ACCEPTED:	Name and Title	_____
	Signature	_____
	Date:	_____

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