

<u>Addendum</u>

Mahopac Central School District Mahopac, New York

Reconstruction at Mahopac High School Mahopac Middle School Mahopac Falls School Bus Garage New Pump House

Tt Project No. 121111-19002

Cornell Business + Technology Park 10 Brown Road Ithaca, New York 14850 Tel. (607) 277-7100 Fax (607) 277-1410

SED NO. 48-01-01-06-0-004-020 48-01-01-06-0-006-013 48-01-01-06-0-003-008 48-01-01-06-5-010-009

48-01-01-06-7-026-001

BID Addendum No. 6 to Drawings and Project Manual

March 5, 2021

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To: BIDDERS

This ADDENDUM forms a part of the BIDDING AND CONTRACT DOCUMENTS and modifies the following documents: Original DRAWINGS dated August 21, 2020.

PROJECT MANUAL dated August 21, 2020, BID ADDENDUM NO. 1, dated February 12, 2021, BID ADDENDUM NO. 2, dated February 16, 2021, BID ADDENDUM NO. 3, dated February 22, 2021, BID ADDENDUM NO. 4, dated March 1, 2021 and BID ADDENDUM NO. 5, dated March 2, 2021

Acknowledge receipt of the ADDENDUM in the space provided on the FORM OF PROPOSAL

This ADDENDUM consists of (7) pages and the following:

ATTACHMENTS

PRE-BID REQUEST FOR INFORMATION QUESTIONS/ANSWERS

REISSUED PROJECT MANUAL SECTIONS

SECTION 00 41 03 - BID FORM – MECHANICAL WORK SECTION 26 27 26 - WIRING DEVICES

REISSUED DRAWINGS (30 x 42)

AE600 Schedules

PROJECT MANUAL MODIFICATIONS

ITEM 6-C-1: Refer to SECTION 01 12 00 - SUMMARY OF PROJECT

- 1. Paragraph 1.8, A., 5., b., <u>AMEND</u> to read as follows:
 - "b. Provide water lines, gas lines, vacuum lines, and acid waste lines as shown. Plumbing contractor to provide all plumbing fixtures for sinks and gas cocks as specified."
- 2. Paragraph 1.8, A., 5., <u>ADD</u> the following:
 - "n. Provide Facility Ground-Mounted, Potable Water Storage Tank and associated foundation. This foundation is a delegated design. Reference Div. 3 Concrete for applicable information. Reference civil drawings for applicable information.
 - o. Provide above ground piping as shown from Facility Ground-Mounted, Potable Water Storage Tank to pumps within the pump house. Reference civil drawings for applicable information."
- 3. Paragraph 1.13, B., 8., <u>AMEND</u> to read as follows:
 - "8. Division 32 Exterior Improvements all Sections. *The new synthetic turf including installation will be purchased off of state contract by the Owner. Strict coordination will be required.*"

ITEM 6-C-2: Refer to SECTION 01 21 00 - ALLOWANCES

- 1. Paragraph 3.8, <u>ADD</u> the following:
 - "B. Allowance No. SC-2 Contingency Allowance: Include the sum of \$50,000 for use in rock removal."

ITEM 6-C-3: Refer to SECTION 01 23 00 - ALTERNATES

- 1. Paragraph 3.1, <u>ADD</u> the following:
 - "D. Alternate No. 4: Temperature Controls
 - 1. This Alternate affects one Contract, as follows:
 - a. **Mechanical Contract**: Provide temperature controls as specified in Section 23 09 00 INSTRUMENTATION AND CONTROL FOR HVAC."

ITEM 6-C-4: Refer to SECTION 01 50 00 – TEMPORARY FACILITIES & CONTROLS

- 1. Paragraph 2.2, G., <u>AMEND</u> to read as follows:
 - "G. Each Prime Contractor is responsible to provide a trailer or suitable work space as needed to properly manage their respective scope of work."
- 2. Paragraph 3.3, A., <u>AMEND</u> the first sentence to read as follows:
 - "A. Each Prime Contractor is responsible to provide a trailer or suitable work space as needed to properly manage their respective scope of work. Locate field offices, . . ."

- 3. Paragraph 3.3, C., <u>AMEND</u> to read as follows:
 - "C. Each prime contractor shall provide, if necessary to properly manage their work, an insulated, weathertight temporary office of sufficient size to accommodate required office personnel at the Project Site. Keep the ..."

PROJECT MANUAL MODIFICATIONS - PLUMBING

ITEM 6-C-5: Refer to SECTION 22 16 23 - NATURAL GAS PIPING.

- 1. Paragraph 2.5, <u>ADD</u> the following:
 - "H. Gas Cock Type "B": Deck mounted turret with one outlet.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide Chicago Faucets; a Geberit company; Model 980-VP909CAGCP or comparable product by one of the following:
 - a. T & S Brass and Bronze Works, Inc.
 - b. WaterSaver Faucet Company.
 - c. Zurn Plumbing Products Group.
 - 2. Service Fittings: Provide units that comply with SEFA 7, "Laboratory and Hospital Fixtures Recommended Practices." Provide fittings complete with washers, locknuts, nipples, and other installation accessories. Include wall and deck flanges, escutcheons, handle extension rods, and similar items.
 - a. Provide units that comply with "Vandal-Resistant Faucets and Fixtures" recommendations in SEFA 7.
 - b. Provide units certified for gas service per ANSI Z21.15B-2006/CSA by the Canadian Standards Association.
 - 3. Materials: Fabricated from cast or forged red brass unless otherwise indicated.
 - 4. Finish: Chromium plated.
 - 5. Ball Valves: Chrome-plated ball and PTFE seals. Handle requires no more than 5 lbf (22 N) to operate. Provide units designed for working pressure up to 75 psig (520 kPa), with serrated outlets with integral ball check.
 - 6. Handles: Provide lever-type handles for ball valves unless otherwise indicated. Lever handle aligns with outlet when valve is closed and is perpendicular to outlet when valve is fully open.
 - 7. Service-Outlet Identification: Provide color-coded plastic discs with embossed identification, secured to each service-fitting handle to be tamper resistant. Comply with SEFA 7 for colors and embossed identification."

ITEM 6-C-6: Refer to SECTION 22 42 16.16 - COMMERCIAL SINKS

- 1. Paragraph 2.1, D., 1., <u>AMEND</u> to read as follows:
 - "1. Fixture: Refer to Specification Section 12 32 13 Manufactured Wood-Veneer-Faced Casework for epoxy..."
- 2. Paragraph 2.1, E., 1., <u>AMEND</u> to read as follows:
 - "1. Fixture: Refer to Specification Section 12 32 13 Manufactured Wood-Veneer-Faced Casework for epoxy. . ."
- 3. Paragraph 2.1, F., 1., <u>AMEND</u> to read as follows:
 - "1. Fixture: Refer to Specification Section 12 32 13 Manufactured Wood-Veneer-Faced Casework for epoxy..."

- 4. Paragraph 2.1, G., 1., <u>AMEND</u> to read as follows:
 - "1. Fixture: Refer to Specification Section 12 32 13 Manufactured Wood-Veneer-Faced Casework for epoxy. . ."

PROJECT MANUAL MODIFICATIONS - MECHANICAL

ITEM 6-C-7: Refer to SECTION 23 09 00 – INSTRUMENTATION AND CONTROL FOR HVAC

1. Paragraph 1.2, <u>AMEND</u> to read as follows:

"1.2 SUMMARY

- A. By Base-Bid, the Mechanical Contractor (MC) is to provide temperature controls as shown and as specified herein and in section 01 12 00 SUMMARY OF PROJECT in coordination with others.
- B. The Owner intends to solicit temperature controls work through a State Contract agreement. Refer to the scope of work described herein as Temperature Controls Contractor (TCC) and 01 12 00 SUMMARY OF PROJECT.
- C. By Bid Alternate #4 Temperature Controls (Mechanical Work Alternate), a Temperature Controls Contractor (TCC) is to provide temperature controls. Refer to the scope of work described herein as Temperature Controls Contractor (TCC) and refer also to 01 12 00 SUMMARY OF PROJECT. The delineation of Scope of Work between the Temperature Controls Contractor (TCC) and Mechanical Contractor (MC) is as follows:
 - State Education Department public bidding requirements include publicly bid installation of standardized equipment purchased by the Owner. Provide installation of the Energy Management and Control System (EMCS) in full accordance with this specification, by a fully qualified Temperature Controls Contractor (TCC) as described in quality assurance below and as approved by the Architects and Engineers, to be paid for by the Contractor responsible for HVAC Work as a part of their work. Include both removals of existing controls as specified below and installation of new controls as described herein:
 - 2. The TCC shall furnish controls equipment to MC:
 - a. Loose dampers associated with louvers, exhaust fans and gravity hoods.
 - b. Control valves.
 - c. Sensor wells to fit their sensors.
 - d. All operator workstations, controllers, control panels enclosures, and field wiring.
 - e. Exception: actuated devices or sensors that must be an integral part of the equipment (ex: factory installed mixing box dampers, or internal packaged refrigeration system safety controls/ shall be by MC.
 - 3. The MC shall install controls equipment including the following (all final designed and furnished by the TCC).
 - a. Loose dampers, control valves, piping sensor wells and duct penetration interface as required to maintain the integrity of their piping and ductwork.
 - 4. MC shall furnish control components associated with the VRF system.
 - 5. TCC shall install control components associated with the VRF system and provide controls project management, software, programming, installation instructions, check out/installation verification and controls commissioning.

- 6. TCC shall provide controls project management, software, programming, installation instructions, check out/installation verification and controls commissioning.
- 7. TCC shall provide Owner instruction.
- D. This section describes the requirements for a complete Energy Management and Control System (EMCS) for building mechanical systems and components, based upon Direct Digital Control (DDC) logic including WEB served operator interface via one new as well as the existing computer Operator Work Stations, distributed microprocessor controls, and integrated electronic components, interfaces, and actuation, all installed complete as specified.
- E. Perform all work in cooperation with the Owner, Architect, Construction Manager, and other Prime Contractors. Coordinate all work with the construction schedule established by the Owner, Architect, and Construction Manager, and immediately report any delays including circumstances causing the delays.
- F. It is the Owner's intent to extend the School District's existing Johnson Controls Facility Explorer Energy Management System (EMCS). This shall be accomplished through:
 - 1. Removal of existing stand-alone electronic control systems included in the work areas indicated on the drawings.
 - 2. Removal of all existing pneumatic control components included in the work areas indicated on the drawings.
 - 3. Providing new controls included in the work areas indicated on the drawings complete as specified herein.
 - 4. Provide new programming and graphic displays for all new controls, and custom configure graphic displays to meet Owner and Engineer requirements.
 - 5. Provide extension of (EMCS) communication network to the work areas indicated on the drawings as required to furnish a complete interoperable control system.
 - 6. Provide full control capability as described in the sequence of operation for new equipment via field mounted controls or interfacing with equipment furnished with BACnet communication capability.
 - 7. Provide wireless control capability for the District Bus Garage and Pump House to the EMCS.
- G. Provide each of the following portions of the complete EMCS as a standalone system that can communicate with any other Direct Digital Control (DDC) system which is following the same protocol:
 - 1. <u>Operator Work Stations (OWS)</u>: Provide one desk top computer as a complete OWS, installed at a location of the Owner's choosing; and integrate this project's controls complete with the EMCS at the District's facilities offices and other buildings. Provide software and programming for new OWS and update software at existing EMCS complete to incorporate this addition. Provide guaranteed seamless two way communications from each, including full control, with the EMCS provided as a part of this project and the existing campus EMCS.
 - 2. The OWS shall monitor, display, and control information from the EMCS through one software package. Rebooting of the OWS, or opening a separate program to access the existing building's multiple systems is not acceptable.
 - 3. The new OWS shall meet the hardware and performance requirements of this specification.
 - 4. The OWS shall allow customization of the system as described in this specification.

- 5. The OWS shall:
 - a. Provide new color graphic control panels for all equipment provided or modified as part of this project, as outlined below and on the drawings,
 - b. Allow operators to view and work with all DDC points associated with all DDC equipment provided or modified as part of this project,
 - c. Allow operators to create custom graphics and/or control programming generation for any and all new equipment.
- 6. Network Control Unit (NCU): Provide central processor WEB server capability for and fully integrated two way communications with all energy use and management equipment provided or modified by this project, along with any third party stand alone controls provided by the manufacturers of the Air Handlers, Refrigeration Machinery, Boilers, and Variable Speed Drives. NCU shall be capable of supporting a minimum of 127 field devices, providing reserve capacity for addition of future points and expansion of DDC system into building. The DDC system's NCU shall communicate with the OWS entirely using the BACnet protocol, with a conformance class of 5, as defined in the latest officially amended version of ANSI/ASHRAE 135-2004.
- 7. Distributed Controls: System controls shall include but not be limited to all controllers, sensors, devices, wiring, and all other hardware and software required to perform all of the functions and controls described later in this specification and on the drawings, including fully integrated two-way control of boilers, chiller, condensing units, pumps, VSDs, heat exchanger, and all associated temperatures, pressures, and other controllable parameters of mechanical equipment and systems provided or modified as part of this project. Provide control through the EMCS as outlined in the general controls sequences of operations below, as shown on the project drawings, and with controls similar to as shown where the exact configuration is not explicitly covered by the drawing and specification sequence of operations.
- 8. Engineer's Office: Provide password and any other hardware and software as required to enable Engineer to communicate directly, with full graphics and control capability, with the EMCS from the Engineer's office over an internet browser interface. Install complete early in project. Engineer will utilize to check progress of installation, to check operation of system during the punch list period, and to monitor system operation after completion of the work."

PROJECT MANUAL MODIFICATIONS - ELECTRICAL

- ITEM 6-C-8: Refer to SECTION 26 27 26 WIRING DEVICES
- 1. <u>DELETE</u> section in its entirety and, <u>ADD</u> new section attached to this addendum.

DRAWING MODIFICATIONS - LANDSCAPE

ITEM 6-C-9: Refer to DRAWING AC100

- 1. Site Phasing Note 6, <u>AMEND</u> to read as follows:
 - "6. AT STAGING AND OTHER TEMPORARY AREAS ON EXISTING PAVING: CONTRACTOR TO DOCUMENT EXISTING PAVEMENT CONDITIONS. PROVIDE PAVEMENT SEALING. IF PAVEMENT IS SUBSTANTIALLY DAMAGED DURING CONSTRUCTION, MILL 1 ½" OF EXISTING PAVING AND REPLACE WITH 1 ½" TOP COURSE. WORK IS TO OCCUR SUMMER 2022."

ITEM 6-C-10: Refer to DRAWING ZC504

1. Detail 2, <u>AMEND</u> Note which reads "6" FND ABOVE FINISH GRADE" to read as follows:

"TOP OF FOUNDATION 6" ABOVE FINISHED GRADE. REFER TO 22 12 19 FOR FOUNDATION DESIGN."

DRAWING MODIFICATIONS – ELECTRICAL

ITEM 6-C-11: Refer to DRAWING AE600

1. <u>DELETE</u> drawing in its entirety and, <u>ADD</u> new drawing attached to this addendum.

END OF ADDENDUM



SUBMIT FORM BY EMAIL TO INE.Mahopac@tetratech.com

Project No.: 121111-19002.

P

Date: 3/2/2021

Project Name: Reconstruction to Mahopac High School, Mahopac Middle School, Mahopac Falls School, Bus Garage, and New Pump House

	Lephon Vizing mols que Unlimital Fac.
Bidder Email Address: M	2 LUIS Q G Mail , Ga
Question Pertains to: Well	and pump specs. FYI - we drilled a well
Drawing Number:	Reper in 1917 at the
Plan Area: Room Number:	school which went 425 deep
Drawing Detail Number:	with 75 Gallons per min 2
Specification Section:	with 75 Gallons per min. Is it possibly the same well?
Question: (Please be specific) • CHR15 BEAL	How many gallon per min. do we expect well to
F BEAL & SONS, INC	What horsepower pump is currently in use?
4 PUTNAM AVENUE	Is the power supply single phace or threephace
BREWSTER MY 10509	IS the place Day of the service
845-279-2460 11	three Phase 2300 or 4600?
Review by Architect/Engineers	Responded By: DCG Date: <u>3/4/2021</u>

1. It could be the same well. The well for this project is by the HS tennis courts.

- 2. We expect it to be more than the current 50 GPM.
- 3. Current pump is reported to be 3 horsepower
- 4. Power supply to new well pump is 208 volt, 3 phase.



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Project No.: 121111-19002

Date:

Project Name: Reconstruction to Mahopac High School, Mahopac Middle School, Mahopac Falls School, Bus Garage, and New Pump House

Bidder Contact Person: Nick Lopilato Bidder Company Name: Clean Air Quality Service, Inc. Bidder Phone: 914-769-7700 x102 Bidder Email Address: nlopilato@caqs.com

Question Pertains to:

Drawing Number: HP051 & BP050 Plan Area: Room Number: N/A Drawing Detail Number: HP051 - 4 - "Water Treatment Hydraulic Schematic & "BP050 - 1 - "Second Floor Key Plan" Specification Section: 01 12 00

Question: (Please be specific)

HP051

Which contractor is responsible for furnishing and installing the new 57,000 aboveground potable water storage tank? This question was asked in Addendum #2 (PDF page 6 of 44) & Addendum #4 (PDF page 24 of 76) with answers pointing to specification sections. There is no conclusive answer to this question on the drawings or specifications. Please provide an answer.

<u>BP050</u>

Which contractor is responsible for the removal of existing 12,000 gallon underground water storage tank? Usually it would be the responsibility of the site contractor but there are no specifications for removal or a clear "summary of work" for this task.

Review by Architect/Engineers:	L Rodriguez/C Glaubitz Responded By:	Date:	3/4/21
Refer to Addendum #6.			



SUBMIT FORM BY EMAIL TO INE.Mahopac@tetratech.com

Project No.: 121111-19002

Date:

Project Name: Reconstruction to Mahopac High School, Mahopac Middle School, Mahopac Falls School, Bus Garage, and New Pump House

Bidder Contact Person: Nick Lopilato Bidder Company Name: Clean Air Quality Service, Inc. Bidder Phone: 914-769-7700 x102 Bidder Email Address: nlopilato@caqs.com

Question Pertains to:

Drawing Number: HP051 & BP050 Plan Area: Room Number: N/A Drawing Detail Number: HP051 - 4 - "Water Treatment Hydraulic Schematic & "BP050 - 1 - "Second Floor Key Plan" Specification Section: 01 12 00

Question: (Please be specific)

HP051

Which contractor is responsible for furnishing and installing the new 57,000 aboveground potable water storage tank? This question was asked in Addendum #2 (PDF page 6 of 44) & Addendum #4 (PDF page 24 of 76) with answers pointing to specification sections. There is no conclusive answer to this question on the drawings or specifications. Please provide an answer.

<u>BP050</u>

Which contractor is responsible for the removal of existing 12,000 gallon underground water storage tank? Usually it would be the responsibility of the site contractor but there are no specifications for removal or a clear "summary of work" for this task.

Review by Architect/Engineers:	C Glaubitz Responded By:	Date: 3/4/21
HP051 - Refer to Addendum #6. BP050 - P drawings are assigned to the p	lumbing contractor per 01	12 00.



SUBMIT FORM BY EMAIL TO INE.Mahopac@tetratech.com

Project No.: 121111-19002

Date:

Project Name: Reconstruction to Mahopac High School, Mahopac Middle School, Mahopac Falls School, Bus Garage, and New Pump House

Bidder Contact Person: Nick Lopilato Bidder Company Name: Clean Air Quality Service, Inc. Bidder Phone: 914-769-7700 x102 Bidder Email Address: nlopilato@caqs.com Question Pertains to: Drawing Number: BP050 Plan Area: Room Number: N/A Drawing Detail Number: "BP050 - 1 - "Second Floor Key Plan" Specification Section: 01 12 00 Question: (Please be specific) BP050 Since the plumbing contractor is responsible for the removal of the 12,000 gallon tank (based on previous RFI response), is the excavation, backfill, finish and grading by the plumbing contractor as well? If so, can you provide specifications/requirements of the

	L Rodriguez/C	
Review by Architect/Engineers:	Responded By:	Date: 3/5/21
Refer to 01 12 00 paragraph 1.6,		
The Site Work Construction Contract sh	nall provide shoring and bracing	and excavation for
all work outside of the existing building,	, and all excavation and backfill	for other contractors
related to site renovation work and athle	etic field work.	

demolition, disposal, site requirements for excavation, type of backfill, finish, grading, etc.?



SUBMIT FORM BY EMAIL TO INE.Mahopac@tetratech.com

Project No.: 121111-19002

Date: 3/2/21

Project Name: Reconstruction to Mahopac High School, Mahopac Middle School, Mahopac Falls School, Bus Garage, and New Pump House

 Bidder Contact Person:
 Karen Panarella

 Bidder Company Name:
 Joe Lombardo Plumbing & Heating of Rockland Inc

 Bidder Phone:
 845-357-6537

 Bidder Email Address:
 karen@josephlombardo.com

 Ouestion Pertains to:
 D. 1./E.1./F.1./G.1. Fixture: Refer to Specification Section 12 32 16 "Manufactured Plastic-Laminate-Faced-Casework" for epoxy resin sink bowls.

 Drawing Number:
 D.2./E.2./F.2./G.2. Faucet(s): Accessible manual type, two-lever-handle mixing valve with restricted swing spout.

 Room Number:
 Drawing Detail Number:

 Specification Section:
 SECTION 22 42 16.16 - COMMERCIAL SINKS

Question: (Please be specific)

There is no Spec Section 12 32 16 listed. Does this section exist? Please advise who is responsible for providing the sinks & faucets regarding the missing spec section as described above?

Review by Architect/Engineers: Responded By: FEI Date: 41614243

1. Tghgt '\q'f tcy kpi 'CC324. 'P qvg'N'hqt 'ukpnikphqto cvkqp0'Cf f kkqpcn'kphqto cvkqp'ku'kpenvf gf 'kp forthcoming addendum."

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SUBMIT FORM BY EMAIL TO INE.Mahopac@tetratech.com

Project No.: 121111-19002

Date: 3/2/21

Project Name: Reconstruction to Mahopac High School, Mahopac Middle School, Mahopac Falls School, Bus Garage, and New Pump House

Review by Architect/Engineers:

Responded By: DCG **Date:** 3/4/2021

1. Type B gas cocks will be included in forthcoming addendum. Single outlet assembly.

2. Safety station: Refer to specification section 12 32 13, Paragraph 2.7, L



SUBMIT FORM BY EMAIL TO INE.Mahopac@tetratech.com

Project No.: 121111-19002

Date: 2/25/21

Project Name: Reconstruction to Mahopac High School, Mahopac Middle School, Mahopac Falls School, Bus Garage, and New Pump House

Bidder Contact Person: Carlos Flores Bidder Company Name: Mehl Electric Bidder Phone: 845 735 4004 Bidder Email Address: carlos@mehlnet.com

Question Pertains to: Summer 2021 Panel install Schedule

Drawing Number: Plan Area: Room Number: Drawing Detail Number: Specification Section:

<u>Question: (Please be specific)</u> 1 Does all the Gear need to be replace during the summer of 2021, with procurement, submittals, covid delays, depending on when a contract is issued. It seems aggressive to get all those panels and MDP fursnished/submitted/delivered/intalled/tested this summer. Could the Gear be split into the job over the 2 summers or even throughout the school year 2021 going into the winter 2022? Please advise if this is acceptable?

Review by Architect/Engineers:

3/4/21 - Response by L Rodriguez/C Glaubitz: Adjustments to the installation schedule can be negotiated, provided that systems including life safety, HVAC and power are operational as required in the documents including the schedule.

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SUBMIT FORM BY EMAIL TO INE.Mahopac@tetratech.com

Project No.: 121111-19002

Date: 3/1/21

Project Name: Reconstruction to Mahopac High School, Mahopac Middle School, Mahopac Falls School, Bus Garage, and New Pump House

Bidder Contact Person: Carlos Flores Bidder Company Name: Mehl Electric Bidder Phone: 845 735 4004 Bidder Email Address: carlos@mehlnet.com ------Question Pertains to: Panel replacement

Drawing Number: Plan Area: Room Number: Drawing Detail Number: Specification Section:

<u>Question: (Please be specific)</u> 1 Your answer to RFI 22 states that there is no work required with panel SDP listed on both AE700 and AE600, but your addendum 4 drawings still show the panel listed in the schedule, and per your answer to RFI 15 you stated all panels shown on AE600 are to be replace. Please clarify what the scope is for panel SDP shown on both AE700 & AE600, Gear vendors are asking what to quote for this specific panel? or if its even a panel at all, please clarify/ confirm scope?

Review by Architect/Engineers:

REFER TO BID ADDENDUM NO 6

CREGA 3/2/21

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SUBMIT FORM BY EMAIL TO INE.Mahopac@tetratech.com

Project No.: 121111-19002

Date: 3/2/21

Project Name: Reconstruction to Mahopac High School, Mahopac Middle School, Mahopac Falls School, Bus Garage, and New Pump House

Bidder Contact Person: Carlos Flores Bidder Company Name: Mehl Electric Bidder Phone: 845 735 4004 Bidder Email Address: carlos@mehlnet.com

<u>Question Pertains to:</u> Communications

-

Drawing Number: Plan Area: Room Number: Drawing Detail Number: Specification Section: 27 15 00

<u>Question:</u> (Please be specific) 1 Please verify the type of cable required, as CAT6 is called out 27 15 00 2.4 B, but CAT6A for patchcords 27 15 00 2.5 E. Which do we need to use CAT6 or CAT6A?

Review by Architect/Engineers:

CAT6A FOR ALL

CREGA

3/2/21

-Sulfitie Taginistic choy less than 5-working days priver to the specified Bid-Opening date and the specific the this present that this present on one of the Bidding Documents, such written information of the Bidding Documents of the Bid



SUBMIT FORM BY EMAIL TO INE.Mahopac@tetratech.com

Project No.: 121111-19002

Date: 3/2/21

Project Name: Reconstruction to Mahopac High School, Mahopac Middle School, Mahopac Falls School, Bus Garage, and New Pump House

Bidder Contact Person: Carlos Flores Bidder Company Name: Mehl Electric Bidder Phone: 845 735 4004 Bidder Email Address: carlos@mehlnet.com

Question Pertains to: Fire Alarm

Drawing Number: AE050, AE200 Plan Area: Room Number: Drawing Detail Number: Specification Section:

<u>Question: (Please be specific)</u> 1 Please confirm if we are replacing exiting FACP with new? Addendum 3 plan AE200 removed the note to replace panel, but AE050 still shows note 2 to replace existing next to FACP? Are we replacing, or using existing FACP panel.

2. Is the Existing FACP panel adequate to fit all the new devices shown on plans?

3. Can we use any notifier vendor to supply the parts and smarts for the addition of devices to the existing system.

Review by Architect/Engineers:

1. NEW DEVICES ADDED TO EXISTING PANEL2. REFER TO BID ADDENDUM NO 3 AND 4 THAT LISTS CONTACTINFORMATION FOR MANFACTURER.CREGA3/2/21

-Sulfitie Ferries and the source of the specified and the specified and the specified and the second the specific that this presentation of the Bidding Documents, such written information after the second second



SUBMIT FORM BY EMAIL TO INE.Mahopac@tetratech.com

Project No.: 121111-19002

Date: 2/26/21

Project Name: Reconstruction to Mahopac High School, Mahopac Middle School, Mahopac Falls School, Bus Garage, and New Pump House

Bidder Contact Person: MIKE DEMARTINO Bidder Company Name: NICKERSON CORP. Bidder Phone: 631-666-0200 X235 Bidder Email Address: demartino@nickersoncorp.com

Question Pertains to:

Drawing Number: Plan Area: Room Number: Drawing Detail Number: Specification Section: CONTRACT 6 - CASEWORK AND LAB EQUIPMENT CONTRACT

Question: (Please be specific)

- Contract 6 - Casework and Lab Equipment Note 1.12.A.4 notes Temporary Facilities as noted in Section 015000. Note 2.2.G and H of Section 015000 indicates Temporary Offices and Temporary Toilet Units. Please confirm Temporary Offices and Temporary Toilet Units are required for Contract 6 - Casework and Lab Equipment Contract.

	_L Rodriguez/C Glaubitz	
Review by Architect/Engineers:	Responded By:	Date: 3/4/21
GC is required by 3.1, F to provide sanitary	facilities. Refer to Addend	lum #6 for
temporary offices.		



SUBMIT FORM BY EMAIL TO INE.Mahopac@tetratech.com

Project No.: 121111-19002

Date: 3-3-2020

Project Name: Reconstruction to Mahopac High School, Mahopac Middle School, Mahopac Falls School, Bus Garage, and New Pump House

Bidder Contact Person:	PETER MADDOX
Bidder Company Name:	RICHARDS CORPORATION
Bidder Phone:	860-583-9229
Bidder Email Address:	pmaddox@richardscorp.com
Question Pertains to:	

Drawing Number: Plan Area: Room Number: Drawing Detail Number: AC100 PHASING NOTE 6 Specification Section:

Question: (Please be specific)

PHASING NOTE 6 ON AC 100 CALLS FOR THE CONTRACTOR TO REMOVE AND REPLACE EXISTING PAVING USED FOR STAGING. THE HS SITE LOGISTICS PLAN PROVIDED IN ADDENDUM 4 SHOWS A STAGING AREA ON AN EXISTING PARKING LOT.

WILL THE SITEWORK CONTRACTOR BE REQUIRED TO REMOVE AND REPLACE THIS ASPHALT?

	L Rodriguez/C Gla	
Review by Architect/Engineers:	Responded By:	Date: 3/4/21
Refer to Addendum #6 for adjust	stment to this note.	



SUBMIT FORM BY EMAIL TO INE.Mahopac@tetratech.com

Project No.: 121111-19002

Date:

Project Name: Reconstruction to Mahopac High School, Mahopac Middle School, Mahopac Falls School, Bus Garage, and New Pump House

Bidder Contact Person: Dylan ScannellBidder Company Name: S&L Plumbing and Heating, corp.Bidder Phone:914.574.7771Bidder Email Address:DScannell@SLplumbing.net
Question Pertains to:
Drawing Number: HVAC Plan Area: Room Number: Drawing Detail Number: Specification Section:

Question: (Please be specific)

The existing BMS is a Johnson Control Facility explorer utilizing a LON network . Do we include the control price in our contract for HVAC?

	L Rodriguez/C Gla	ubitz
Review by Architect/Engineers:	Responded By:	Date: 3/4/21
Refer to Addendum #6.		



SUBMIT FORM BY EMAIL TO INE.Mahopac@tetratech.com

Project No.: 121111-19002

Date: 2/16/21

Project Name: Reconstruction to Mahopac High School, Mahopac Middle School, Mahopac Falls School, Bus Garage, and New Pump House

Bidder Contact Person: Jim Sass III Bidder Company Name: J&J Sass Electric Inc. Bidder Phone: 845-331-8666 Bidder Email Address: jimsass3@jjsass.com
Question Pertains to:
Drawing Number: AE165 Plan Area: Room Number: Drawing Detail Number: Specification Section:
Question: (Please be specific) Please provide a make and model # or specs for the cord reels

Review by Architect/Engineers:

Responded By: CREGA Date: 3/2/21

REFER TO BID ADDENDUM NO 6.



SUBMIT FORM BY EMAIL TO INE.Mahopac@tetratech.com

Project No.: 121111-19002

Date: 2/16/21

Project Name: Reconstruction to Mahopac High School, Mahopac Middle School, Mahopac Falls School, Bus Garage, and New Pump House

Bidder Contact Person: Jim Sass III Bidder Company Name: J&J Sass Electric Inc. Bidder Phone: 845-331-8666 Bidder Email Address: jimsass3@jjsass.com
Question Pertains to:
Drawing Number: AE200, AE201, AE202 Plan Area: Room Number: Drawing Detail Number: Specification Section:
Question: (Please be specific) Please confirm if each computer outlet gets 1 CAT 6 cable back to the nearest network rack. Are all the network racks existing and will any additional patch panels be needed?
Review by Architect/Engineers: Responded By: CREGA Date: 3/2/21 AE200-202 ARE FIRE ALARM DEVICES ONLY- REFER TO BID ADDENDUMS. YES ONE TO FIRE ALARM PANEL.



SUBMIT FORM BY EMAIL TO INE.Mahopac@tetratech.com

Project No.: 121111-19002

Date: 2/18/21

Project Name: Reconstruction to Mahopac High School, Mahopac Middle School, Mahopac Falls School, Bus Garage, and New Pump House

Bidder Contact Person: Andrew Ross
Bidder Company Name: Tristate Contract Sales LLC Bidder Phone: ⁸⁴⁵⁻⁷⁸²⁻²⁶¹⁴
Bidder Email Address: andrew@tristatecontractsales.com
Question Pertains to: Contract 6 CE / Casework
Drawing Number:
Plan Area:
Room Number:
Drawing Detail Number:
Specification Section: 123213,115363,123217,125651
Question: (Please be specific)
Contract 6CE casework
Section 115363 – Laboratory Equipment and Accessories describe Fire Blankets and First Aid Kits. I don't see either item on the architectural detai are they required if so where are they shown on the drawings.
Section 123213 -Wood casework the spec calls for label holders for all drawers as shown on drawings. None are shown on the drawings. Are they required if so where on the drawers .
Also they state lable holders to be on mailbox units. Please clarify where the mailbox units can be found on the drawings .
Please clarify where counter top grilles and toe kick grilles are required. No grilles or fin tube is shown on the layout drawings. Is it at all window elevations?
Review by Architect/Engineers: Responded By: mhhunt Date: 3-2-21
Keylew by Architect/Engineers. Kesponded by: <u>minute</u> Date:

Refer to upcoming addendum for questions regarding label holder.

Fire blankets and kits are to be per each science room as indicated in notes and located during construction phase. Refer to all drawings and casework details and sections for requirement regarding grilles.



SUBMIT FORM BY EMAIL TO INE.Mahopac@tetratech.com

Project No.: 121111-19002

Date: 3/2/21

Project Name: Reconstruction to Mahopac High School, Mahopac Middle School, Mahopac Falls School, Bus Garage, and New Pump House

_____ Bidder Contact Person: Andrew Ross Bidder Company Name: Tristate Contract Sales LLC Bidder Phone: 845-782-2614 Bidder Email Address: andrew@tristatecontractsales.com _____ _____ Question Pertains to: Contract 6 CE / Casework

Drawing Number: AA103, AA400 **Plan Area: Room Number: Drawing Detail Number: Specification Section: 123217**

-----_____ **Question: (Please be specific)**

Casework Contract 6 Music casework spec section 123217 are doors required on the Wenger music casework . It is not clear on the drawings or in the specification Please clarify.

Review by Architect/Engineers:

Responded By: ^{mhhunt} Date: 3-2-21

REFER TO ELEVATON AND MODEL NUMBERS



SUBMIT FORM BY EMAIL TO INE.Mahopac@tetratech.com

Project No.: 121111-19002

Date: 3/2/21

Project Name: Reconstruction to Mahopac High School, Mahopac Middle School, Mahopac Falls School, Bus Garage, and New Pump House

_____ Bidder Contact Person: Andrew Ross Bidder Company Name: Tristate Contract Sales LLC Bidder Phone: 845-782-2614 Bidder Email Address: andrew@tristatecontractsales.com Question Pertains to: Contract 6 CE / Casework Drawing Number: AA103, AA400 **Plan Area: Room Number: Drawing Detail Number: Specification Section: 123217** _____ **Question: (Please be specific) Casework Contract 6** Music casework spec section 123217 are doors required on the Wenger music casework . It is not clear on the drawings or in the specification Please clarify I don't understand your Answer : The elevations list Ultra storage #5,8,9,10,4,5 ETC they all come with no doors as drawn , Metal grille doors , slab doors. So if they require doors which style. It is drawn with no doors what is correct.

Review by Architect/Engineers:	Responded By: ^{mhhunt}	Date:	3-2-21	-
REFER TO ELEVATON AND MODEL NUMBERS			3-2-21	

DOORS WOULD HAVE BEEN DRAWN ON THE ELEVATIONS IF REQUIRED -



SUBMIT FORM BY EMAIL TO INE.Mahopac@tetratech.com

Project No.: 121111-19002

Date:

Project Name: Reconstruction to Mahopac High School, Mahopac Middle School, Mahopac Falls School, Bus Garage, and New Pump House

Bidder Contact Person: Andrew Ross Bidder Company Name: Tristate Contract Sales LLC Bidder Phone: ⁸⁴⁵⁻⁷⁸²⁻²⁶¹⁴ Bidder Email Address: andrew@tristatecontractsales.com
Question Pertains to: Contract 6 CE / Casework
Drawing Number: Plan Area: Room Number: Drawing Detail Number: Specification Section: ¹²³²¹³
Question: (Please be specific) Epoxy Resin Counter tops Durcon the specified manufacturer and fabricator of epoxy resin counter tops has just issued a letter stating that they expect problems and long lead times providing Epoxy Resin Counter tops this summer and Fall. Lead times could be as much 20 weeks from VIF. Will you accept Phenolic Resin as an equal to maintain the schedule.

Review by Architect/Engineers:

Responded By: mhhunt Date: 3-5-21

it is impossible to accurately predict lead times for the summer - the products are to be bid as specified and lead time issues/products will be revised at the time of shop drawings and approvals.



10 Brown Rd Ithaca, NY 14850 (607)277-7100

Ithaca, New York Farmingdale, New York Albany, New York

BID FROM (Bidder's Name)	:
(Address)	:
Bidder's Telephone	:
Bidder's Facsimile (Fax)	:
Bidder's E-mail Address (if applicable)	:

BID FORM (submit in duplicate)

CONTRACT: CONTRACT 3 HC – MECHANICAL WORK

- **PROJECT TITLE:** RECONSTRUCTION TO MAHOPAC HIGH SCHOOL MAHOPAC MIDDLE SCHOOL MAHOPAC FALLS SCHOOL BUS GARAGE NEW PUMP HOUSE
 - **DATE:** AUGUST 21, 2020

PROJECT NO.: 121111-19002

BID TO: Board of Education Mahopac Central School District 179 East Lake Boulevard Mahopac, New York 10541

The Bidder hereby certifies that it has examined and fully understands the requirements and intent of the Bidding Documents, including the Bidding Requirements and proposed Contract Documents; and proposes to furnish all labor, materials, and equipment necessary to complete the Work on, or before, the dates specified in the Contract Documents for the **BASE BID** sum of:

(words)		
	(\$)
		(figures)

Show all amounts in both words and figures; in the event of a discrepancy between amounts written in words and figures, the amount written in words shall govern.

Refer to Division 01 Section "Allowances" for description of allowances to be included in the Base Bid above.

ALTERNATES

Indicate in the spaces provided below the amount to be added to or the amount to be deducted from (as applicable) the Base Bid if the Owner accepts the following Alternates described in Division 01 Section "Alternates".

Include in the amount of each Alternate, all labor, materials, overhead and profit, modification of Work specified in the Contract Documents, and additional work that may be required by acceptance of the Alternate.

ALTERNATE NO. 4 – TEMPERATURE CONTROLS

ADD to the Base Bid the sum of:

(words)

(figures)

(\$

LIST OF ADDENDA RECEIVED

No	Date	No	Date
No	Date	No	Date
No	Date	No	Date

BID ATTACHMENTS

Enclosed with this Bid are the following attachments:

Attachment #1 - Non-Collusive Bidding Certification. Attachment #2 - Certified Corporate Resolution. Attachment #3 – Iranian Energy Divestment Certification

BID SECURITY

Enclosed with this Bid is bid security in the amount of five percent of the Base Bid.

EXECUTION OF CONTRACT

If written notice of the acceptance of this Bid is transmitted to the undersigned within 45 days following the Bid opening, the undersigned will, within 10 days following the Notice of Award, execute and transmit a Contract in the form as required by the Architect.

This Bid may be withdrawn at any time prior to the Bid opening.

SIGNATURE

((()))	NAME OF BIDDER (Corporate Name)
(Corporate Seal)	SIGNATURE (Corporate Officer)
(()))	
()	DATE:

BID FORM ATTACHMENT #1

GENERAL CONDITIONS TO BID NON-COLLUSIVE BIDDING CERTIFICATION

No bid will be accepted that does not have this form completely executed.

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of knowledge and belief:

- (a) The prices in this bid have been arrived at independently without collusion, consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or any competitor;
- (b) Unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the bidder and will not knowingly be disclosed by the bidder prior to opening, directly or indirectly, to any other bidder or to any competitor;
- (c) No attempt has been made or will be made by the bidder to induce any other person, partnership, or corporation to submit or not to submit a bid for the purpose of restricting competition;
- (d) The person signing this bid or proposal certifies that he has fully informed himself regarding the accuracy of the statements contained in this certification, and under the penalties of perjury, affirms the truth thereof, such penalties being applicable to the bidder as well as to the person signing in its behalf;
- (e) That attached hereto (if corporate bidder) is a certified copy of resolution authorizing the execution of this certified by the signature of this bid or proposal in behalf of the corporate bidder.

(Individual)

(Corporation)

Dated:_____ By ____

(Signature of Officer)

This Non-Collusive Bidding Certificate must be submitted with the bid.

BID FORM ATTACHMENT #2

CERTIFIED CORPORATE RESOLUTION

RESOLVED THAT ______ be authorized to sign and submit the bid or proposal of this corporation for the following project:

and to include in such bid or proposal the certificate as to non-collusion required by section one hundred three-d (103-d) of the general municipal law as to the act and deed of such corporation, and for any inaccuracies or mis-statements in such certificate this corporate bidder shall be liable under the penalties of perjury.

The foregoing is a true and correct copy of the resolution and adopted by

_____ at a meeting of its board of directors held on the

_____day of ______20__.

(Secretary)

BID FORM ATTACHMENT #3

IRANIAN ENERGY DIVESTMENT CERTIFICATION

Pursuant to Section 103-g Of the New York State General Municipal Law

- A. By submission of this bid/proposal, each bidder/proposer and each person signing on behalf of any bidder/proposer certifies, and in the case of a joint bid, each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to paragraph (b) of subdivision 3 of Section 165-a of the New York State Finance Law.
- B. A Bid/Proposal shall not be considered for award, nor shall any award be made where the condition set forth in Paragraph A above has not been complied with; provided, however, that in any case the bidder/proposer cannot make the foregoing certification set forth in Paragraph A above, the bidder/proposer shall so state and shall furnish with the bid a signed statement which sets forth in detail the reasons therefore. Where Paragraph A above cannot be complied with, the Purchasing Unit to the political subdivision, public department, agency or official thereof to which the bid/proposal is made, or his designee, may award a bid/proposal, on a case by case business under the following circumstances:
 - 1. The investment activities in Iran were made before April 12, 2012, the investment activities in Iran have not been expanded or renewed after April 12, 2012, and the Bidder/Proposer has adopted, publicized and is implementing a formal plan to cease the investment activities in Iran and to refrain from engaging in any new investments in Iran; or
 - 2. The political subdivision makes a determination that the goods or services are necessary for the political subdivision to perform its functions and that, absent such an exemption, the political subdivision would be unable to obtain the goods or services for which the contract is offered. Such determination shall be made in writing and shall be a public document.

Signature

Title

Date

Company

SECTION 26 27 26 - WIRING DEVICES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Receptacles, receptacles with integral GFCI, and associated device plates.
 - 2. Weather-resistant receptacles.
 - 3. Snap switches.

1.3 DEFINITIONS

- A. EMI: Electromagnetic interference.
- B. GFCI: Ground-fault circuit interrupter.
- C. Pigtail: Short lead used to connect a device to a branch-circuit conductor.
- D. RFI: Radio-frequency interference.
- E. TVSS: Transient voltage surge suppressor.
- F. UTP: Unshielded twisted pair.

1.4 ADMINISTRATIVE REQUIREMENTS

- A. Coordination:
 - 1. Receptacles for Owner-Furnished Equipment: Match plug configurations.

1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: List of legends and description of materials and process used for premarked wall plates.

1.6 INFORMATIONAL SUBMITTALS

A. Field quality-control reports.

1.7 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: For wiring devices to include in all manufacturers' packinglabel warnings and instruction manuals that include labeling conditions.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. <u>Manufacturers'</u> Names: Shortened versions (shown in parentheses) of the following manufacturers' names are used in other Part 2 articles:
 - 1. <u>Cooper Wiring Devices; Division of Cooper Industries, Inc. (Cooper)</u>.
 - 2. Hubbell Incorporated; Wiring Device-Kellems (Hubbell).
 - 3. Leviton Mfg. Company Inc. (Leviton).
 - 4. <u>Pass & Seymour/Legrand (Pass & Seymour)</u>.
- B. Source Limitations: Obtain each type of wiring device and associated wall plate from single source from single manufacturer.

2.2 GENERAL WIRING-DEVICE REQUIREMENTS

- A. Wiring Devices, Components, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. Comply with NFPA 70.
- C. Devices that are manufactured for use with modular plug-in connectors may be substituted under the following conditions:
 - 1. Connectors shall comply with UL 2459 and shall be made with stranded building wire.
 - 2. Devices shall comply with the requirements in this Section.

2.3 STRAIGHT-BLADE RECEPTACLES

- A. Convenience Receptacles, 125 V, 20 A: Comply with NEMA WD 1, NEMA WD 6 Configuration 5-20R, UL 498, and FS W-C-596.
 - 1. <u>Products:</u> Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. <u>Cooper; 5351 (single), CR5362 (duplex)</u>.
 - b. Hubbell; HBL5351 (single), HBL5352 (duplex).
 - c. <u>Leviton; 5891 (single), 5352 (duplex)</u>.
 - d. <u>Pass & Seymour; 5361 (single), 5362 (duplex)</u>.

2.4 GFCI RECEPTACLES

- A. General Description:
 - 1. Straight blade, feed and non-feed-through type.
 - 2. Comply with NEMA WD 1, NEMA WD 6, UL 498, UL 943 Class A, and FS W-C-596.
 - 3. Include indicator light that shows when the GFCI has malfunctioned and no longer provides proper GFCI protection.
- B. Duplex GFCI Convenience Receptacles, 125 V, 20 A:
 - 1. <u>Products</u>: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. <u>Cooper; VGF20</u>.
 - b. <u>Hubbell; GFR5352L</u>.
 - c. <u>Pass & Seymour; 2095</u>.
 - d. <u>Leviton; 7590</u>.

2.5 TOGGLE SWITCHES

- A. Comply with NEMA WD 1, UL 20, and FS W-S-896.
- B. Switches, 120/277 V, 20 A:
 - 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. <u>Single Pole:</u>
 - 1) <u>Cooper; AH1221</u>.
 - 2) <u>Hubbell; HBL1221</u>.
 - $3) \qquad \underline{\text{Leviton; } 1221-2}.$
 - 4) <u>Pass & Seymour; CSB20AC1</u>.
 - b. <u>Two Pole:</u>
 - 1) <u>Cooper; AH1222</u>.
 - 2) <u>Hubbell; HBL1222</u>.
 - 3) <u>Leviton; 1222-2</u>.
 - 4) <u>Pass & Seymour; CSB20AC2</u>.
 - c. <u>Three Way:</u>
 - 1) <u>Cooper; AH1223</u>.
 - 2) <u>Hubbell; HBL1223</u>.
 - 3) <u>Leviton; 1223-2</u>.
 - 4) <u>Pass & Seymour; CSB20AC3</u>.

- d. <u>Four Way:</u>
 - 1) <u>Cooper; AH1224</u>.
 - 2) <u>Hubbell; HBL1224</u>.
 - 3) <u>Leviton; 1224-2</u>.
 - 4) <u>Pass & Seymour; CSB20AC4</u>.
- C. Key-Operated Switches, 120/277 V, 20 A:
 - 1. <u>Products:</u> Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. <u>Cooper; AH1221L</u>.
 - b. <u>Hubbell; HBL1221L</u>.
 - c. <u>Leviton; 1221-2L</u>.
 - d. Pass & Seymour; PS20AC1-L.
 - 2. Description: Single pole, with factory-supplied key in lieu of switch handle.
- D. Single-Pole, Double-Throw, Momentary-Contact, Center-off Switches: 120/277 V, 20 A; for use with mechanically held lighting contactors.
 - 1. <u>Products:</u> Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. <u>Cooper; 1995</u>.
 - b. <u>Hubbell; HBL1557</u>.
 - c. <u>Leviton; 1257</u>.
 - d. <u>Pass & Seymour; 1251</u>.
- E. Key-Operated, Single-Pole, Double-Throw, Momentary-Contact, Center-off Switches: 120/277 V, 20 A; for use with mechanically held lighting contactors, with factory-supplied key in lieu of switch handle.
 - 1. <u>Products</u>: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. <u>Cooper; 1995L</u>.
 - b. <u>Hubbell; HBL1557L</u>.
 - c. <u>Leviton; 1257L</u>.
 - d. Pass & Seymour; 1251L.

2.6 WALL PLATES

- A. Single and combination types shall match corresponding wiring devices.
 - 1. Plate-Securing Screws: Metal with head color to match plate finish.
 - 2. Material for Finished Spaces: 0.035-inch- (1-mm-) thick, satin-finished, Type 302 stainless steel.

- 3. Material for Unfinished Spaces: Galvanized steel.
- 4. Material for Damp Locations: Cast aluminum with spring-loaded lift cover, and listed and labeled for use in wet and damp locations.
- B. Wet-Location, Weatherproof Cover Plates: NEMA 250, complying with Type 3R, weatherresistant, die-cast aluminum with lockable cover.
- C. Cover Plates:
 - 1. Stainless Steel Cover Plates: Type 302 or 304, satin finish, 0.040 inch thick, accurately die cut, protected with release paper. Flush mounting plates shall be beveled with smooth rolled outer edge. Surface mounting plates shall be beveled and pressure formed for smooth edge to fit box. Single and combination plates as required to match types and sizes of specified wiring devices.
 - 2. Weatherproof Cover Plates: Receptacles in wet locations shall be installed with a hinged outlet cover/enclosure clearly marked "Suitable For Wet Locations While in Use" and "UL Listed". There must be a gasket between the enclosure and the mounting surface, and between the hinged cover and the mounting plate/base to assure proper seal. The installation shall be in compliance with NEC Article 410-57(b). Specification Grade die cast aluminum (copper free alloy 360)as manufactured by Hubbell Corp. (or approved equal).
- D. Material for unfinished spaces: Galvanized steel.

2.7 CORD REEL

- A. Cord Reel For Receptacle
 - 1. Standard duty cord reel constructed with oversize main shaft, bearings, and main spring; heavy gauge cable drum and housing. High capacity slip rings, oversize brushes, and copper graphite contact points, anchored in floating brush holder.
 - 2. Instant action automatic lock providing positive foolproof stop at desired point, regardless of mounting position or speed of retraction
 - 3. Convert easily to constant tension by rotating external control
 - 4. Lead-in and working cables of No. 14 AWG 250 volt oil resisting safety yellow SJO cord.
 - 5. Large internal radius of cable guide casting to prevent snubbing and abrasion of cable.
 - 6. External tension adjustment to permit spring tension to be increased or decreased to meet job requirements.
 - 7. Lifetime lubricated, self-contained main motor springs.
 - 8. Declutching feature to eliminate breakage on rewind.

- 9. 35 ft. of 3-conductor cable.
- 10. Similar to "Cord Reel No. 990" by Daniel Woodhead Company.

2.8 FINISHES

- A. Device Color:
 - 1. Wiring Devices Connected to Normal Power System: To match existing.
 - 2. Wiring Devices Connected to Emergency Power System: Red.
- B. Wall Plate Color: For plastic covers, match device color.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Comply with NECA 1, including mounting heights listed in that standard, unless otherwise indicated.
- B. Coordination with Other Trades:
 - 1. Protect installed devices and their boxes. Do not place wall finish materials over device boxes and do not cut holes for boxes with routers that are guided by riding against outside of boxes.
 - 2. Keep outlet boxes free of plaster, drywall joint compound, mortar, cement, concrete, dust, paint, and other material that may contaminate the raceway system, conductors, and cables.
 - 3. Install device boxes in brick or block walls so that the cover plate does not cross a joint unless the joint is troweled flush with the face of the wall.
 - 4. Install wiring devices after all wall preparation, including painting, is complete.
- C. Conductors:
 - 1. Do not strip insulation from conductors until right before they are spliced or terminated on devices.
 - 2. Strip insulation evenly around the conductor using tools designed for the purpose. Avoid scoring or nicking of solid wire or cutting strands from stranded wire.
 - 3. The length of free conductors at outlets for devices shall meet provisions of NFPA 70, Article 300, without pigtails.

- 4. Existing Conductors:
 - a. Cut back and pigtail, or replace all damaged conductors.
 - b. Straighten conductors that remain and remove corrosion and foreign matter.
 - c. Pigtailing existing conductors is permitted, provided the outlet box is large enough.

D. Device Installation:

- 1. Replace devices that have been in temporary use during construction and that were installed before building finishing operations were complete.
- 2. Keep each wiring device in its package or otherwise protected until it is time to connect conductors.
- 3. Do not remove surface protection, such as plastic film and smudge covers, until the last possible moment.
- 4. Connect devices to branch circuits using pigtails that are not less than 6 inches in length.
- 5. When there is a choice, use side wiring with binding-head screw terminals. Wrap solid conductor tightly clockwise, two-thirds to three-fourths of the way around terminal screw.
- 6. Use a torque screwdriver when a torque is recommended or required by manufacturer.
- 7. When conductors larger than No. 12 AWG are installed on 15- or 20-A circuits, splice No. 12 AWG pigtails for device connections.
- 8. Tighten unused terminal screws on the device.
- 9. When mounting into metal boxes, remove the fiber or plastic washers used to hold device-mounting screws in yokes, allowing metal-to-metal contact.
- E. Receptacle Orientation:
 - 1. Install ground pin of vertically mounted receptacles down, and on horizontally mounted receptacles to the right.
- F. Device Plates: Do not use oversized or extra-deep plates. Repair wall finishes and remount outlet boxes when standard device plates do not fit flush or do not cover rough wall opening.
- G. Arrangement of Devices: Unless otherwise indicated, mount flush, with long dimension vertical. Group adjacent switches under single, multigang wall plates.

3.2 GFCI RECEPTACLES

A. Install non-feed-through-type GFCI receptacles where protection of downstream receptacles is not required.

3.3 IDENTIFICATION

- A. Comply with Section 26 05 53 "Identification for Electrical Systems."
- B. Identify each receptacle with panelboard identification and circuit number. Use hot, stamped, or engraved machine printing with black-filled lettering on face of plate, and durable wire markers or tags inside outlet boxes.

3.4 FIELD QUALITY CONTROL

- A. Perform the following tests and inspections:
 - 1. Test Instruments: Use instruments that comply with UL 1436.
 - 2. Test Instrument for Convenience Receptacles: Digital wiring analyzer with digital readout or illuminated digital-display indicators of measurement.
- B. Tests for Convenience Receptacles:
 - 1. Line Voltage: Acceptable range is 105 to 132 V.
 - 2. Percent Voltage Drop under 15-A Load: A value of 5 percent or higher is unacceptable.
 - 3. Ground Impedance: Values of up to 2 ohms are acceptable.
 - 4. GFCI Trip: Test for tripping values specified in UL 1436 and UL 943.
 - 5. Using the test plug, verify that the device and its outlet box are securely mounted.
 - 6. Tests shall be diagnostic, indicating damaged conductors, high resistance at the circuit breaker, poor connections, inadequate fault current path, defective devices, or similar problems. Correct circuit conditions, remove malfunctioning units and replace with new ones, and retest as specified above.
- C. Wiring device will be considered defective if it does not pass tests and inspections.
- D. Prepare test and inspection reports.

END OF SECTION 26 27 26

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	ANEL NAME	AREA IN SUILDING	ROOM	MOUNTING EXG NUM OF SPACES		VOLTAGE / PHASE	PANEL RATIN (A)	PANEL LUG RATING MAIN CIRCUI BREAKER	(RATING) (RATING)	1P15 1P20	1P20 GFC 1P30 1P50 2P15	2P20 2P30	2P50 2P60 2P100	2P100 3P15 3P20	3P30 3P40 3P50	3P50 3P60	3P70 3P80	3P100 3P150	3P175 3P200 3P225	3P250 3P300	3P350 3P400	3P3000		NOTES	A
		Basement Custo		urface 24 urface 12		120/208/3P		100A	- 10F - 10F		2			1											
	GB1 KP SECTION 1	Basement Teache	her's Work Rm030 S	urface 42 ecessed 36	2 42	120/208/3P 120/208/3P	225A	225A 400A	- 10H - 10H	IK 1 25		2	2	2 1	2	1	1								-
	KP SECTION 2 SH1 SECTION 1			ecessed 42 urface 7	2 42 7 7	120/208/3P 120/208/3P		400A - 22	- 10ł 25A 10ł			1		1 1	2				1						~
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5	SH2 SECTION 1 SH2 SECTION 2			ecessed 7 ecessed 12	7 7 2 42	120/208/3P 120/208/3P		- 25 400A	50A 10H - 10H					2	1	1			1						_
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	SH3 SECTION 2		Cafeteria Re codial Storage 019 S	urface 15	9 9 5 15	120/208/3P		225A - 200A	- 10ł - 10ł						2			1							
		TBD		urface 30	0 / 30	120/208/3P	100A	100A 60														RROVID	DE (0)30A 3P BBE	AKERS	
	MDP2 AP		Storage 186		board Switchboa	ard 120/208/3P	800A		00A 10H - 10H	К		6			8	4		4	6		5				_
	1A1 1A2	1st Floor Jani	nitor Closet 129 Re Corridor 131 Re			120/208/3P		225A 225A	- 10ł - 10ł		1	1		1											
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	1B1 1B2		vay across 186 Rm Re dor across 184 Rm Re					400A 400A	- 10H - 10H					1 1	1	1									
	1B3 1B4	1st Floor Corrido	dor outside 189 Rm Re dor outside 199 Rm Re	ecessed 42	2 54	120/208/3P	225A	400A 225A	- 10H - 10H	K 45	2	2 1	2 1	1 2 1											 -
	SP 2A1 SECTION 1	2nd Floor Corrido	Corridor 131 Re dor outside 218 Rm Re	ecessed 24	4 24		225A	400A 225A	- 10ł - 10ł	Ж 14	4	2		1 2											
	2A1 SECTION 2 2A2	2nd Floor Corrido	dor outside 218 Rm Re dor across 201 Rm Re	ecessed 42		120/208/3P	225A	225A 225A	- 10ł - 10ł	IK 1 37	1			1											 ш
	2B1 2B2	2nd Floor Corrido	dor outside 242 Rm Re dor outside 268 Rm Re	ecessed 30	6 36 0 30	120/208/3P	400A	400A 400A	- 10H - 10H	К 22		1		2											
	2B3 SECTION 1 2B3 SECTION 2	2nd Floor Corrido	dor outside 253 Rm Re dor outside 253 Rm Re dor outside 260 Rm Re	ecessed 30	0 42 0 42 2 42	120/208/3P 120/208/3P 120/208/3P	200A		00A 10H 00A 10H - 10H	К 36			1	1											-
	LPSC1	2nd Floor Ch	Chemistry 263 S		4 24		60A	60A 100A	- 10F - 10F	K 22															
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(1 Panel Re	eplacement	Schedule																						
	1 Panel Re	eplacement	Schedule			LUMIN							NUMBER A	ACTURER AND MARE PROVIDED DESIGN ONLY.	D TO SHOW										
		eplacement		ITEM		***ALL	LUMINAIRES	ARE 120V MPS					NUMBER A BASIS OF [ARE PROVIDED	D TO SHOW										
	ITEM					***ALL	LUMINAIRES LA NS WAT	ARE 120V MPS TAGE T	TYPE	NAME	MODEL O	SERIES	NUMBER A BASIS OF I	ARE PROVIDED DESIGN ONLY.	D TO SHOW										
	ITEM 5	SYMBOL	2' X 2' RE	CESSED TROFF		***ALL	LUMINAIRES LA NS WAT	ARE 120V MPS TAGE T 2 I	TYPE LED	NAME SIGNIFY	MODEL O 2FXP-45L-835-	SERIES -DS-UNV-DIM	NUMBER A BASIS OF I	ARE PROVIDED DESIGN ONLY.	D TO SHOW										
	ITEM 5	SYMBOL	2' X 2' RE 2' X 2' RECESSED BAT	CESSED TROFF TROFFER WITH TERY BACKUP	TH INTEGRAL	***ALL LUME 4500	LUMINAIRES LA NS WAT 0 42	ARE 120V MPS TAGE T 2 I 2 I	TYPE	NAME SIGNIFY SIGNIFY	MODEL O 2FXP-45L-835- 2FXP-45L-835-2 EMI	-DS-UNV-DIM -DS-UNV-DIM- -DS-UNV-DIM- ED	NUMBER A BASIS OF I	ARE PROVIDED DESIGN ONLY.	D TO SHOW										U
	ITEM 5	SYMBOL	2' X 2' RE 2' X 2' RECESSED BAT 2.25" APERAT	CESSED TROFF	TH INTEGRAL	***ALL	LUMINAIRES LA NS WAT 0 42	ARE 120V MPS TAGE T 2 I 2 I	TYPE LED	NAME SIGNIFY SIGNIFY FINELITE	MODEL O 2FXP-45L-835-2 2FXP-45L-835-2 EMI HP-2-B-P-D-4'-835-F	SERIES -DS-UNV-DIM -DS-UNV-DIM- ED SC-FC-10%-C	A-FE	ARE PROVIDED DESIGN ONLY.	D TO SHOW										U
	ITEM	SYMBOL	2' X 2' RE 2' X 2' RECESSED BAT 2.25" APERAT	CESSED TROFF TROFFER WITH TERY BACKUP URE WITH 12" SUSPENDED LI	TH INTEGRAL BAFFLE LINEAR	***ALL LUME 4500 4500 1655	LUMINAIRES LA INS WAT 0 42 0 42 5 4.	ARE 120V MPS TAGE T 2 I 6 I	TYPE	NAME SIGNIFY SIGNIFY FINELITE	MODEL O 2FXP-45L-835-2 2FXP-45L-835-2 EMI HP-2-B-P-D-4'-835-F BSL3	SERIES -DS-UNV-DIM -DS-UNV-DIM- ED SC-FC-10%-C SC-FC-10%-C4 0LP	A-FE	ARE PROVIDED DESIGN ONLY.	D TO SHOW										
	ITEM 5	SYMBOL	2' X 2' RE 2' X 2' RECESSEE BAT 2.25" APERAT ACOUSITIC 2.25" APERATURE USPENDED LINEAR A 2.25" X 4' APE DIFFUSER SU	CESSED TROFF TROFFER WITH TERY BACKUP URE WITH 12" SUSPENDED LI WITH 12" BAFFL ND INTEGRAL B RATURE REGRE RFACE MOUNT	TH INTEGRAL "BAFFLE LINEAR "LE ACOUSITIC BATTERY BAC RESSED 1" T LINEAR	***ALL LUME 4500 4500 1655	LUMINAIRES LA ENS WAT 0 42 0 42 5 4. 5 4.	ARE 120V MPS TAGE T 2 I 6 I 6 I	TYPE LED LED LED	NAME SIGNIFY SIGNIFY FINELITE	MODEL O 2FXP-45L-835- 2FXP-45L-835-2 EMI HP-2-B-P-D-4'-835-F	SERIES -DS-UNV-DIM -DS-UNV-DIM- ED SC-FC-10%-C SC-FC-10%-C 0LP RG-D-120-SC-	A-FE	ARE PROVIDED DESIGN ONLY.	D TO SHOW										
	ITEM 3 1 [1EM 2 2 [2EM 3 3 [SYMBOL	2' X 2' RE 2' X 2' RECESSEE BAT 2.25" APERAT ACOUSITIC 2.25" APERATURE USPENDED LINEAR A 2.25" X 4' APE DIFFUSER SU 2.25" X 4' APE DIFFUSER SURF	CESSED TROFF TROFFER WITH TERY BACKUP URE WITH 12" SUSPENDED LI WITH 12" BAFFL ND INTEGRAL B RATURE REGRE RFACE MOUNT RATURE 1" REG	TH INTEGRAL BAFFLE LINEAR LINEAR ELE ACOUSITIC BATTERY BAC BATTERY BAC BATTERY BAC BATTERY BAC BATTERY BAC BATTERY BAC BATTERY BAC BATTERY BAC BATTERY BAC	***ALL LUME 4500 4500 1658 XUP	LUMINAIRES LA SNS WAT 0 42 5 4. 5 4. 6 4.	ARE 120V MPS TAGE T 2 I 6 I 6 I 6 I	TYPE LED LED LED LED	NAME SIGNIFY SIGNIFY FINELITE FINELITE	MODEL O 2FXP-45L-835-2 2FXP-45L-835-2 EMI HP-2-B-P-D-4'-835-F BSL3 HP-2-SM-D-4-B-835	SERIES -DS-UNV-DIM -DS-UNV-DIM- ED SC-FC-10%-C SC-FC-10%-C 0LP RG-D-120-SC 4-FE RG-D-120-SC	NUMBER A BASIS OF I 4-FE 4-FE-	ARE PROVIDED DESIGN ONLY.	D TO SHOW										
	ITEM 3 1 [1EM 1 2 2EM 1 3 3EM 1 20	SYMBOL	2' X 2' RE 2' X 2' RECESSEE BAT 2.25" APERAT 2.25" APERATURE USPENDED LINEAR A 2.25" X 4' APE DIFFUSER SURF INTEGRA 2.25" X 4' APERAT	CESSED TROFF TROFFER WITH TERY BACKUP URE WITH 12" SUSPENDED LI WITH 12" BAFFL ND INTEGRAL B RATURE REGRE RFACE MOUNT RATURE 1" REG ACE MOUNT LIN BATTERY BAC	TH INTEGRAL "BAFFLE LINEAR "LE ACOUSITIC BATTERY BAC BATTERY BAC BATTERY BAC BATTERY BAC INEAR WITH CKUP T DIFFUSER	***ALL LUME 4500 4500 1655 CKUP 1486	LUMINAIRES LA SNS WAT 0 42 0 42 5 4. 5 4. 6 4. 6 4.	ARE 120V MPS TAGE T 2 I 6 I 6 I 6 I 6 I	TYPE	NAME SIGNIFY SIGNIFY FINELITE FINELITE FINELITE	MODEL O 2FXP-45L-835-2 2FXP-45L-835-2 EMI HP-2-B-P-D-4'-835-F BSL3 HP-2-SM-D-4-B-835 FC-10%-0	SERIES -DS-UNV-DIM -DS-UNV-DIM- ED SC-FC-10%-C SC-FC-1	NUMBER A BASIS OF I - - - -	ARE PROVIDED DESIGN ONLY.	LENGTH AND										
	ITEM ITEM 1 [1EM [2 [2EM [3 [3EM [3A [SYMBOL	2' X 2' RE 2' X 2' RECESSEE BAT 2.25" APERAT 2.25" APERATURE USPENDED LINEAR A 2.25" X 4' APE DIFFUSER SURF INTEGRA 2.25" X 4' APERAT	CESSED TROFF TROFFER WITH TERY BACKUP URE WITH 12" SUSPENDED LI WITH 12" BAFFL ND INTEGRAL B RATURE REGRE RFACE MOUNT RATURE 1" REG ACE MOUNT LIN BATTERY BAC URE SURFACE ESSED LINEAR	TH INTEGRAL BAFFLE LINEAR ELE ACOUSITIC BATTERY BAC RESSED 1" T LINEAR GRESSED INEAR WITH CKUP E 1" DIFFUSER	***ALL LUME 4500 4500 1655 CKUP 1486 1486	LUMINAIRES LA SNS WAT 0 42 0 42 5 4. 5 4. 6 4. 6 4. 6 4. 6 4.	ARE 120V MPS TAGE T 2 I 6 I 6 I 6 I 6 I 6 I 6 I	TYPE LED LED LED LED	NAME SIGNIFY SIGNIFY FINELITE FINELITE FINELITE FINELITE	MODEL O 2FXP-45L-835- 2FXP-45L-835-2 EMI HP-2-B-P-D-4'-835-F BSL3 HP-2-SM-D-4-B-835 FC-10%-C4-FE HP-2-SM-D-4-B-835 FC-10%-C4-FE	SERIES -DS-UNV-DIM -DS-UNV-DIM- ED SC-FC-10%-C SC-FC-1	A-FE A-FE A-FE- C C C C C C C C C C C C C C C C C C C	ARE PROVIDED DESIGN ONLY. NOTE	LENGTH AND										
	ITEM 3 1 [1EM 1 2 [2EM 1 3 [3EM 1 3A [4 [SYMBOL	2' X 2' RECESSEE 2' X 2' RECESSEE BAT 2.25" APERAT 2.25" APERATURE USPENDED LINEAR A 2.25" X 4' APEI DIFFUSER SURF INTEGRAI 2.25" X 4' APERATUR 2.25" X 4' APERATURE	CESSED TROFF TROFFER WITH TERY BACKUP URE WITH 12" SUSPENDED LI WITH 12" BAFFL ND INTEGRAL B RATURE REGRE RFACE MOUNT RATURE 1" REG ACE MOUNT LIN BATTERY BAC URE SURFACE ESSED LINEAR	TH INTEGRAL "BAFFLE LINEAR "LE ACOUSITIC BATTERY BAC BATTERY BATTERY BAC BATTERY BATTERY BAC BATTERY BATTERY BAC BATTERY BATTERY B	***ALL LUME 4500 4500 1655 CKUP 1486 1486 1486	LUMINAIRES LA INS WAT 0 42 0 42 0 42 5 4. 5 4. 6 4. 6 4. 6 4. 6 4. 6 4. 6 4.	ARE 120V MPS TAGE T 2 I 6 I 6 I 6 I 6 I 6 I 6 I 6 I 6 I	TYPE I LED I <td>NAME SIGNIFY SIGNIFY FINELITE FINELITE FINELITE FINELITE FINELITE FINELITE FINELITE</td> <td>MODEL O 2FXP-45L-835-2 2FXP-45L-835-2 EMI HP-2-B-P-D-4'-835-F BSL3 HP-2-SM-D-4-B-835 FC-10%-C HP-2-SM-D-4-B-835 FC-10%-C4-FE HP-2-SM-D-2-B-835 FC-10%-C4-FE</td> <td>2 SERIES -DS-UNV-DIM -DS-UNV-DIM- ED SC-FC-10%-C4 SC-FC-10%-C4 0LP RG-D-120-SC4 -FE RG-D-120-SC4 BSL310LP RG-D-120-SC4 -FE -SCFC-10%-C4 SCFC-10%-C4</td> <td>NUMBER A BASIS OF I 4-FE 4-FE 4-FE - - - REFER T 4-FE</td> <td>ARE PROVIDED DESIGN ONLY. NOTE</td> <td>LENGTH AND</td> <td></td>	NAME SIGNIFY SIGNIFY FINELITE FINELITE FINELITE FINELITE FINELITE FINELITE FINELITE	MODEL O 2FXP-45L-835-2 2FXP-45L-835-2 EMI HP-2-B-P-D-4'-835-F BSL3 HP-2-SM-D-4-B-835 FC-10%-C HP-2-SM-D-4-B-835 FC-10%-C4-FE HP-2-SM-D-2-B-835 FC-10%-C4-FE	2 SERIES -DS-UNV-DIM -DS-UNV-DIM- ED SC-FC-10%-C4 SC-FC-10%-C4 0LP RG-D-120-SC4 -FE RG-D-120-SC4 BSL310LP RG-D-120-SC4 -FE -SCFC-10%-C4 SCFC-10%-C4	NUMBER A BASIS OF I 4-FE 4-FE 4-FE - - - REFER T 4-FE	ARE PROVIDED DESIGN ONLY. NOTE	LENGTH AND										
	ITEM	SYMBOL	2' X 2' RECESSEE 2' X 2' RECESSEE BAT 2.25" APERAT 2.25" APERATURE USPENDED LINEAR A 2.25" X 4' APEI DIFFUSER SURF INTEGRAI 2.25" X 4' APERATUR 2.25" X 4' APERATURE	CESSED TROFF TROFFER WITH TERY BACKUP URE WITH 12" SUSPENDED LI WITH 12" BAFFL ND INTEGRAL B RATURE REGRE RFACE MOUNT ACTURE 1" REG ACE MOUNT LIN BATTERY BAC URE SURFACE ESSED LINEAR RE WITH SUSPEND BATTERY BAC	TH INTEGRAL	***ALL LUME 4500 4500 1658 CKUP 1486 1486 1486	LUMINAIRES LA INS WAT 0 42 0 42 5 4. 5 4. 6 4. 6 4. 6 4. 6 4. 6 4. 6 4. 6 4. 6 4.	ARE 120V MPS TAGE T 2 I 2 I 6 I	TYPE I LED I <td>NAME SIGNIFY SIGNIFY FINELITE FINELITE FINELITE FINELITE FINELITE FINELITE FINELITE</td> <td>MODEL O 2FXP-45L-835-2 2FXP-45L-835-2 EMI HP-2-B-P-D-4'-835-F BSL3 HP-2-SM-D-4-B-835 FC-10%-C HP-2-SM-D-4-B-835 FC-10%-C4-FE HP-2-SM-D-2-B-835 FC-10%-C4-FE HP-2-B-P-D-4'-835-F HP-2-SM-D-4-B-835 HP-2-SM-D-4-B-835 HP-2-SM-D-4-B-835 HP-2-SM-D-4-B-835 HP-2-SM-D-4-B-835 HP-2-SM-D-4-B-835 HP-2-SM-D-4-B-835 HP-2-SM-D-4'-835-F</td> <td>SERIES -DS-UNV-DIM DS-UNV-DIM- D SC-FC-10%-C4 0LP RG-D-120-SC4 -FE RG-D-120-SC4 BSL310LP RG-D-120-SC4 -FE SCFC-10%-C4 SCFC-10%-C4 0LP</td> <td>NUMBER A BASIS OF I - 4-FE -</td> <td>ARE PROVIDED DESIGN ONLY. NOTE</td> <td>LENGTH AND</td> <td></td>	NAME SIGNIFY SIGNIFY FINELITE FINELITE FINELITE FINELITE FINELITE FINELITE FINELITE	MODEL O 2FXP-45L-835-2 2FXP-45L-835-2 EMI HP-2-B-P-D-4'-835-F BSL3 HP-2-SM-D-4-B-835 FC-10%-C HP-2-SM-D-4-B-835 FC-10%-C4-FE HP-2-SM-D-2-B-835 FC-10%-C4-FE HP-2-B-P-D-4'-835-F HP-2-SM-D-4-B-835 HP-2-SM-D-4-B-835 HP-2-SM-D-4-B-835 HP-2-SM-D-4-B-835 HP-2-SM-D-4-B-835 HP-2-SM-D-4-B-835 HP-2-SM-D-4-B-835 HP-2-SM-D-4'-835-F	SERIES -DS-UNV-DIM DS-UNV-DIM- D SC-FC-10%-C4 0LP RG-D-120-SC4 -FE RG-D-120-SC4 BSL310LP RG-D-120-SC4 -FE SCFC-10%-C4 SCFC-10%-C4 0LP	NUMBER A BASIS OF I - 4-FE -	ARE PROVIDED DESIGN ONLY. NOTE	LENGTH AND										
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