Project Name: Horizon Uptown
General Order No:
Negotiation No: DNIM1003X8K1
Alternate No: 0008

Item No.	Qty	Product	Description	Unit Quote Price	Extended Quote
	1	EESS Services	EESS Short Circuit and Coordination Studies: Arc Flash Hazard Analysis, Arc Flash Labels - Standard	**$2,791.59**	**$2,791.59**

See Approval Drawings for Clarifications and Exceptions
Anna McNeeley

Qty	List of Materials
1	ESS Study-BidManager
1	2 Weeks Lead Time for Data Request Submittal
1	3-4 Weeks Lead Time for Study Completion
1	Quoted by Bid Manager
1	Arc Flash study
1	Arc Flash Labels - Standard

Item No.	Qty	Product	Description	Unit Quote Price	Extended Quote
	1	EESS SAT		**$2,745.82**	**$2,745.82**

See Approval Drawings for Comments and Clarifications
Start-up Contact: Other
Anna McNeeley
Estimated Start-up Date:
A Coordination Study does not exist.

Qty	List of Materials
1	
1	EESS Office: Denver, CO, quote as of
1	
1	Jobsite: , Aurora, Colorado 80010
1	Drive Time: 0.50 Hours
11	Pow-R-Line2a
5	Pow-R-Line1a
1	Pow-R-Line4
1	Pow-R-Line3a

Item No.	Qty	Product	Description	Unit Quote Price	Extended Quote
	1	Panelboards	42 Circuits, 800A, Fully Rated, 208Y/120V 3Ph 4W, Aluminum Bus, 35kAIC, 800A, Main Lugs Only[Top Fed], Surface Mounted	**$2,115.30**	**$2,115.30**

Catalog No P4A800LT48AH01
Designation C1 SECT. 1

Qty	List of Materials
1	800A, Main Lugs Only
1	800A, Through-Feed Lugs
5	15A, 2P GHB Branch Breaker
1	20A, 2P GHB Branch Breaker
24	20A, 1P GHQ Branch Breaker
2	225A, 3P FD Branch Breaker
1	Std. Bolted Al Ground Bar (Al/Cu Cable)
1	Painted Box - ANSI 61
1	Panel Nameplate - White with Black Letters
1	Type 1 Enclosure: BX2490P
1	Standard Covers

Project Name: Horizon Uptown
General Order No:
Negotiation No: DNIM1003X8K1
Alternate No: 0008

Item No.	Qty	Product	Description	Unit Quote Price	Extended Quote
	1	Panelboards	41 Circuits, 800A, Fully Rated, 208Y/120V 3Ph 4W, Silver Plated Copper Bus, 35kAIC, 800A, Main Lugs Only[Bottom Fed], Surface Mounted	**$1,374.78**	**$1,374.78**

Catalog No P3A800LB4201
Designation C1 SECT. 2

Qty	List of Materials
1	800A, Main Lugs Only
2	70A, 3P GHB Branch Breaker
2	15A, 3P GHB Branch Breaker
15	20A, 1P GHQ Branch Breaker
2	40A, 2P GHB Branch Breaker
2	30A, 2P GHB Branch Breaker
2	20A, 3P GHB Branch Breaker
1	Silver-Plated Copper Main Bus, 800 Amps
1	Std. Bolted Al Ground Bar (Al/Cu Cable)
1	Panel Nameplate - White with Black Letters
1	Type 1 Enclosure: EZB2872R
1	EZ Trim, Door in Door, Concealed Hardware: EZTV2872S

Item No.	Qty	Product	Description	Unit Quote Price	Extended Quote
	1	Panelboards	42 Circuits, 225A, Fully Rated, 208Y/120V 3Ph 4W, Aluminum Bus, 35kAIC, 225A, Main Lugs Only[Top Fed], Surface Mounted	**$759.68**	**$759.68**

Catalog No P2A225LT42AH01
Designation C2

Qty	List of Materials
1	225A, Main Lugs Only
6	20A, 2P GHB Branch Breaker
3	15A, 2P GHB Branch Breaker
20	20A, 1P GHQ Branch Breaker
4	1P GHQ Branch Provision Only
1	Std. Bolted Al Ground Bar (Al/Cu Cable)
1	Panel Nameplate - White with Black Letters
1	Type 1 Enclosure: EZB2042R
1	EZ Trim, Door in Door, Concealed Hardware: EZT2042S

Item No.	Qty	Product	Description	Unit Quote Price	Extended Quote
	3	Panelboards	42 Circuits, 225A, Fully Rated, 208Y/120V 3Ph 4W, Aluminum Bus, 35kAIC, 225A, Main Lugs Only[Top Fed], Surface Mounted	**$924.48**	**$2,773.44**

Catalog No P2A225LT42AH3R
Designation HPA

Qty	List of Materials
1	225A, Main Lugs Only
5	20A, 2P GHB Branch Breaker
1	40A, 2P GHB Branch Breaker
30	20A, 1P GHQ Branch Breaker
1	Std. Bolted Al Ground Bar (Al/Cu Cable)
1	Panel Nameplate - White with Black Letters
1	Type 3R Enclosure: LWPQ2042

Item No.	Qty	Product	Description	Unit Quote Price	Extended Quote
	2	Panelboards	60 Circuits, 225A, Fully Rated, 208Y/120V 3Ph 4W, Aluminum Bus, 35kAIC, 225A, Main Lugs Only[Top Fed], Surface Mounted	**$1,205.12**	**$2,410.24**

Catalog No P2A225LT60AH3R
Designation HPC

Qty	List of Materials
1	225A, Main Lugs Only
9	20A, 2P GHB Branch Breaker
42	20A, 1P GHQ Branch Breaker
1	Std. Bolted Al Ground Bar (Al/Cu Cable)
1	Panel Nameplate - White with Black Letters
1	Type 3R Enclosure: LWPQ2060

Item No.	Qty	Product	Description	Unit Quote Price	Extended Quote
	1	Panelboards	42 Circuits, 225A, Fully Rated, 208Y/120V 3Ph 4W, Aluminum Bus, 35kAIC, 225A, Main Lugs Only[Top Fed], Surface Mounted	**$893.76**	**$893.76**

Catalog No P2A225LT42AH3R
Designation HPD

Qty	List of Materials
1	225A, Main Lugs Only
6	20A, 2P GHB Branch Breaker
27	20A, 1P GHQ Branch Breaker
3	1P GHQ Branch Provision Only
1	Std. Bolted Al Ground Bar (Al/Cu Cable)
1	Panel Nameplate - White with Black Letters
1	Type 3R Enclosure: LWPQ2042

Item No.	Qty	Product	Description	Unit Quote Price	Extended Quote
	1	Panelboards	42 Circuits, 225A, Fully Rated, 208Y/120V 3Ph 4W, Aluminum Bus, 42kAIC, 225A, Main Lugs Only[Top Fed], Surface Mounted	**$925.76**	**$925.76**

Catalog No P2A225LT42AH3R
Designation HPE

Qty	List of Materials
1	225A, Main Lugs Only
6	20A, 2P GHB Branch Breaker
1	40A, 2P GHB Branch Breaker
27	20A, 1P GHQ Branch Breaker
1	1P GHQ Branch Provision Only
1	Std. Bolted Al Ground Bar (Al/Cu Cable)
1	Panel Nameplate - White with Black Letters
1	Type 3R Enclosure: LWPQ2042

Item No.	Qty	Product	Description	Unit Quote Price	Extended Quote
	1	Panelboards	60 Circuits, 225A, Fully Rated, 208Y/120V 3Ph 4W, Aluminum Bus, 35kAIC, 225A, Main Lugs Only[Top Fed], Surface Mounted	**$1,004.48**	**$1,004.48**

Catalog No P2A225LT60AH01
Designation HPF

Qty	List of Materials
1	225A, Main Lugs Only
8	20A, 2P GHB Branch Breaker
41	20A, 1P GHQ Branch Breaker
3	1P GHQ Branch Provision Only
1	Std. Bolted Al Ground Bar (Al/Cu Cable)
1	Panel Nameplate - White with Black Letters
1	Type 1 Enclosure: EZB2060R
1	EZ Trim, Door in Door, Concealed Hardware: EZT2060S

Item No.	Qty	Product	Description	Unit Quote Price	Extended Quote
	1	Panelboards	54 Circuits, 225A, Fully Rated, 208Y/120V 3Ph 4W, Aluminum Bus, 35kAIC, 225A, Main Lugs Only[Top Fed], Surface Mounted	**$1,058.56**	**$1,058.56**

Catalog No P2A225LT54AH3R
Designation HPG

Qty	List of Materials
1	225A, Main Lugs Only
6	20A, 2P GHB Branch Breaker
1	40A, 3P GHB Branch Breaker
34	20A, 1P GHQ Branch Breaker
5	1P GHQ Branch Provision Only
1	Std. Bolted Al Ground Bar (Al/Cu Cable)
1	Panel Nameplate - White with Black Letters
1	Type 3R Enclosure: LWPQ2048

Item No.	Qty	Product	Description	Unit Quote Price	Extended Quote
	1	Panelboards	42 Circuits, 225A, Fully Rated, 208Y/120V 3Ph 4W, Aluminum Bus, 35kAIC, 225A, Main Lugs Only[Top Fed], Surface Mounted	**$861.76**	**$861.76**

Catalog No P2A225LT42AH3R
Designation HPH

Qty	List of Materials
1	225A, Main Lugs Only
5	20A, 2P GHB Branch Breaker
27	20A, 1P GHQ Branch Breaker
5	1P GHQ Branch Provision Only
1	Std. Bolted Al Ground Bar (Al/Cu Cable)
1	Panel Nameplate - White with Black Letters
1	Type 3R Enclosure: LWPQ2042

Item No.	Qty	Product	Description	Unit Quote Price	Extended Quote
	2	Panelboards	60 Circuits, 225A, Fully Rated, 208Y/120V 3Ph 4W, Aluminum Bus, 22kAIC, 225A, Main Lugs Only[Top Fed], Surface Mounted	**$728.96**	**$1,457.92**

Catalog No P1A225LT60AH3R
Designation HPB

Qty	List of Materials
1	225A, Main Lugs Only
39	20A, 1P QBHW Branch Breaker
8	20A, 2P QBHW Branch Breaker
1	100A, 3P QBHW-H Branch Breaker
1	40A, 2P QBHW Branch Breaker

Qty	List of Materials
1	Std. Bolted Al Ground Bar (Al/Cu Cable)
1	Panel Nameplate - White with Black Letters
1	Type 3R Enclosure: LWPQ2060

Item No.	Qty	Product	Description	Unit Quote Price	Extended Quote
	2	Panelboards	42 Circuits, 100A, Fully Rated, 208Y/120V 3Ph 4W, Aluminum Bus, 22kAIC, 100A, 3P EDB Main Breaker[Top Fed], Surface Mounted	**$584.00**	**$1,168.00**

Catalog No P1A100BT42AH3R
Designation MAINT

Qty	List of Materials
1	100A, 3P EDB Main Breaker
16	20A, 1P QBHW Branch Breaker
2	20A, 2P QBHW Branch Breaker
22	1P QBHW Branch Provision Only
1	Std. Bolted Al Ground Bar (Al/Cu Cable)
1	Panel Nameplate - White with Black Letters
1	Type 3R Enclosure: LWPQ2048

Item No.	Qty	Product	Description	Unit Quote Price	Extended Quote
	1	Panelboards	60 Circuits, 225A, Fully Rated, 208Y/120V 3Ph 4W, Aluminum Bus, 10kAIC, 225A, Main Lugs Only[Top Fed], Surface Mounted	**$621.76**	**$621.76**

Catalog No P1A225LT60AH3R
Designation POOL

Qty	List of Materials
1	225A, Main Lugs Only
2	20A, 3P BAB-H Branch Breaker
54	20A, 1P BAB Branch Breaker
1	Std. Bolted Al Ground Bar (Al/Cu Cable)
1	Panel Nameplate - White with Black Letters
1	Type 3R Enclosure: LWPQ2060

Item No.	Qty	Product	Description	Unit Quote Price	Extended Quote
	39	Loadcenters	BR PON LOADCENTER, 125A, MLO, 30 SPACE	**$360.93**	**$14,076.27**

Catalog No BRP30L125
Designation 3BD

Catalog No	Qty	List of Materials
BRP30L125	1	BR PON LOADCENTER, 125A, MLO, 30 SPACE
BR120	2	Type BR Breaker 20A/1 Pole 120/240V 10k
BR215	2	Type BR Breaker 15A/2 Pole 120/240V 10
BR230	1	Type BR Breaker 30A/2 Pole 120/240V 10K
BR240	1	Type BR Breaker 40A/2 Pole 120/240V 10K
BR115	1	Type BR Breaker 15A/1 Pole 120/240V 10K
BRP120DF	7	BR DUAL FUNCTION AF/GF 1P 20A
BRP115AF	5	BR COMBO AFCI, 1P, 15A, 10KAIC, PLUG-ON NEUTRAL
GBKP2120	1	21 TERMINAL GROUND BAR + (1) 2/0 LUG - CH/BR PON

Project Name: Horizon Uptown
General Order No:
Negotiation No: DNIM1003X8K1
Alternate No: 0008

Item No.	Qty	Product	Description	Unit Quote Price	Extended Quote
	143	Loadcenters	BR PON LOADCENTER, 125A, MLO, 30 SPACE	**$338.85**	**$48,455.55**

Catalog No BRP30L125
Designation 2BD

Catalog No	Qty	List of Materials
BRP30L125	1	BR PON LOADCENTER, 125A, MLO, 30 SPACE
BR120	2	Type BR Breaker 20A/1 Pole 120/240V 10k
BR215	2	Type BR Breaker 15A/2 Pole 120/240V 10
BR230	1	Type BR Breaker 30A/2 Pole 120/240V 10K
BR240	1	Type BR Breaker 40A/2 Pole 120/240V 10K
BR115	1	Type BR Breaker 15A/1 Pole 120/240V 10K
BRP120DF	7	BR DUAL FUNCTION AF/GF 1P 20A
BRP115AF	4	BR COMBO AFCI, 1P, 15A, 10KAIC, PLUG-ON NEUTRAL
GBKP2120	1	21 TERMINAL GROUND BAR + (1) 2/0 LUG - CH/BR PON

Item No.	Qty	Product	Description	Unit Quote Price	Extended Quote
	246	BR RESIDENTIAL BREAKERS	Type BR Breaker 125A/2 Pole Com. Trip 120/240V 42K	**$93.83**	**$23,082.18**

Catalog No BRHH2125

Qty	List of Materials
246	Type BR Breaker 125A/2 Pole Com. Trip 120/240V 42K

Item No.	Qty	Product	Description	Unit Quote Price	Extended Quote
	64	Loadcenters	BR PON LOADCENTER, 125A, MLO, 30 SPACE	**$316.76**	**$20,272.64**

Catalog No BRP30L125
Designation 1BD

Catalog No	Qty	List of Materials
BRP30L125	1	BR PON LOADCENTER, 125A, MLO, 30 SPACE
BR120	2	Type BR Breaker 20A/1 Pole 120/240V 10k
BR215	2	Type BR Breaker 15A/2 Pole 120/240V 10
BR230	1	Type BR Breaker 30A/2 Pole 120/240V 10K
BR240	1	Type BR Breaker 40A/2 Pole 120/240V 10K
BR115	1	Type BR Breaker 15A/1 Pole 120/240V 10K
BRP120DF	7	BR DUAL FUNCTION AF/GF 1P 20A
BRP115AF	3	BR COMBO AFCI, 1P, 15A, 10KAIC, PLUG-ON NEUTRAL
GBKP2120	1	21 TERMINAL GROUND BAR + (1) 2/0 LUG - CH/BR PON

Eaton Selling Policy 25-000 applies.

All orders must be released for manufacture within 90 days of date of order entry. If approval drawings are required, drawings must be returned approved for release within 60 days of mailing. If drawings are not returned accordingly, and/or if shipment is delayed for any reason, the price of the order will increase by 1.0% per month or fraction thereof for the time the shipment is delayed.

Seller shall not be responsible for any failure to perform, or delay in performance of, its obligations resulting from the COVID-19 pandemic or any future epidemic, and Buyer shall not be entitled to any damages resulting thereof.

EESS Short Circuit and Coordination Studies

ESS Study-BidManager

SCOPE OF WORK

This quote and associated scope of work may not satisfy all requirements listed in the contract specifications. Contact your local EESS office if you need assistance interpreting the job specifications to determine whether or not the Bid Manager studies will meet the job requirements, or if the Bid Manager takeoff does not offer the types of studies being requested.

The selected options for power system studies would be detailed only for proposed equipment supplied by the Eaton sales office. New equipment supplied by others is not included. Existing or future equipment is not included. All equipment to be covered in the study must first be completely and correctly priced into Bid Manager – before the EESS Studies takeoff is selected and within the same Job Alternate as the study item.

The Bid Manager studies will be performed using SKM Systems Analysis software package Power*Tools for Windows.

This quotation does not include the following:

a. Existing equipment or new equipment supplied by others

b. On-site data collection for required information on the new & existing electrical systems

c. Settings for protective relay logic, programmable logic controllers, software configuration, metering, monitoring, or control devices

d. Field service for start-up, testing, training or adjusting protective device settings

e. Equipment modifications for conformance to the recommendations of the proposed study

f. Study software

g. On-site project meetings

The accuracy and delivery of the study are greatly dependent upon timely receipt of accurate field information provided by others. For an example of the types of information needed, see Generic Data Request near the end of this document.

SHORT CIRCUIT AND OVERCURRENT COORDINATION

Three-phase and line-to-ground short circuit currents would be calculated and compared to the proposed equipment interrupting ratings down to the low voltage panelboards. This equipment evaluation table would be based on the

PREPARED BY: Anna McNeeley	DATE: 12/23/2020	**Eaton**			
APPROVED BY:	DATE:	JOB NAME: Horizon Uptown			
		DESIGNATION:			
	VERSION: 1.0.0.0	TYPE: CHESS_ST		DRAWING TYPE: Customer Appr.	
NEG-ALT Number: DNIM1003X8K1-0008	REVISION:	DWG SIZE: A	G.O.:	ITEM:	SHEET: 1 of 5

system operating configuration that produces maximum fault currents. Protective devices will have short circuit interrupting ratings as indicated in the contract documents unless specifically listed otherwise in Eaton's Bill of Material. Load centers and safety switches will not be covered in the studies. Existing equipment or new equipment provided by others is not included. For jobs where the new equipment is being installed as part of an upgrade or addition, only existing information regarding immediately upstream available fault current and system motor contribution will be lump-sum/group-modeled to determine the adequacy of the short circuit ratings of the new equipment.

Overcurrent coordination will be based on the specific protective device frame sizes shown on the contract drawings unless specifically listed otherwise in our Bill of Material. Where only circuit breaker trip sizes and/or fuse sizes are shown on the contract drawings, Eaton's quotation is based on the minimum frame size breaker or fusible switch which can accommodate those trip sizes/fuse sizes unless specifically listed otherwise in our Bill of Material. Phase and ground overcurrent coordination plots and recommended settings would be provided for the proposed Eaton adjustable-trip protective devices.

Multi-function protective relays have many options of control, logic, metering, monitoring, virtual inputs and configuration, but this quotation includes recommended ANSI/IEEE protective device function settings (as listed on the contract single line diagrams) to provide adequate system protection and coordination with the equipment in the scope of work. The customer or local installation contractor should determine any additionally required settings, such as logic, virtual inputs and configuration. Fuses and other non-adjustable trip devices would only be shown in the Time-Current-Characteristic (TCC) plots if they are immediately upstream or immediately downstream of an Eaton adjustable-trip protective device that has been priced into Bid Manager.

Individual motor circuit protectors would only be shown in the TCC plots and settings table if they are immediately downstream of an Eaton adjustable-trip circuit breaker that has been priced into Bid Manager. The contractor is expected to use motor nameplate information to set the remaining motor circuit protectors and electronic motor overloads. For jobs where the new equipment is being installed as part of an upgrade or addition, one level of existing upstream and/or existing downstream overcurrent device information would be modeled to determine overcurrent coordination with the proposed Eaton adjustable protective devices. In order to minimize the number of short circuit bus nodes and coordination plots, similar documentation may be used for system redundancy.

ARC FLASH STUDY

The arc flash incident energy analysis will be conducted for the proposed equipment supplied by the Eaton sales office and listed in the Bill of Materials , down to the low voltage panelboards. Load centers are not included. Existing equipment or new equipment provided by others is not included. The arc flash incident energy analysis will be conducted in accordance. with the procedures stated in NFPA 70E-2018 and IEEE 1584-2018. The analysis is performed in conjunction with the short circuit and protective coordination studies. Minimum and maximum fault current duties and protective device clearing times are required to perform the arc flash incident energy analysis and will be obtained from the Short Circuit and Protective Device Coordination studies.

Results of the arc flash study are used to define the flash boundary and the incident energy at electrical distribution equipment locations as defined by the scope of work. Safe working distances will be specified for calculated fault locations based upon the calculated arc flash boundary considering an incident energy of 1.2 cal/cm2. To ensure conservative results and a consistent approach in the adoption of IEEE 1584-2018, Eaton's power systems engineering group has defined standard electrode configurations, equipment dimensions, and bus bar gaps that will be used for all equipment to be included in the arc flash incident energy analysis. If the calculated incident energy at some equipment locations is unacceptable to the customer, further investigation, outside the scope of this study, is

recommended to determine the most effective means of reducing the incident energy while maintaining the highest desired degree of reliability.

ARC FLASH LABELS - STANDARD

Our standard label reflects the latest requirements listed in NFPA 70E-2018 and CSA Z462. One Arc flash warning label will be provided for each panelboard, motor control center, switchboard, switchgear, and MV switch included in the scope of work. Labels will be 4 in. x 4 in. thermal transfer type label of high adhesion polyester for each work location analyzed and will be machine printed, with no field markings. The label shall have an orange header with the wording, "WARNING: SHOCK & ARC FLASH HAZARD", and shall include the following:

* Location designation
* Nominal voltage
* Arc flash boundary
* Calculated incident energy
* Working distance
* Limited approach boundary
* Restricted approach boundary
* Engineering report number, revision number and issue date.

STUDY LEAD TIMES

Lead time for job-specific data request = within 2 weeks of receipt of one-line, specifications,detailed bill of material, and vista order paper.Lead time for final study results = 4-6 weeks after all remaining data received, includingequipment submittals and answers to job-specific data request.

REPORT/STUDY RESULTS

Maximum of four hardcopies using permanent velo binding system or emailed report file submittal would include the following.

1. Introduction describing the background, objectives, and scope of the study

2. Executive summary with clear, concise conclusions and recommendations

3. Philosophy and basis of each analysis module that was chosen and priced within Bid manager

4. Short circuit data and calculations

5. Table comparing calculated short circuit duties and protective device interrupting ratings

6. Coordination time-current plots of protective device curves and associated single line

7. Table listing coordinated settings for adjustable-trip protective devices

8. Selective coordination evaluation summary table (if chosen and priced)

9. Arc flash incident energy analysis summary table (if chosen and priced)

10.Arc flash labels (if chosen and priced)

11.System single line diagram per latest version of SKM Power*Tools for Windows software

Report revisions that are required due to project changes or incorrect information that was provided to Eaton's Power Systems Engineering group would require an appropriate change order.

GENERIC DATA REQUEST

In order to prepare an official Data Request, need legible copy of single line diagrams, accurate Bid Manager file containing all proposed equipment, and interunit order paper for the study. Others would supply necessary data for the electrical system, for example:

EATON'S PROJECT GROUP

1. Complete and up-to-date information on Eaton equipment being provided.

2. Accurate factory drawings for all MVA, MVS, Ampgard, and LVA switchgear.

3. Legible copy of electrical single line diagrams

4. Transformer schedules

5. Motor control center horsepower schedules

UTILITY

1. Utility contact name, phone number, and email address

2. Utility three-phase & line-to-ground fault current with associated X/R ratios & system voltage

3. Utility transformer primary fuse manufacturer, type, amp rating, and speed rating

4.Utility transformer winding (delta-wye ground, etc.), kVA rating, impedance %Z, kV ratings

ELECTRICAL CONTRACTOR

PREPARED BY: Anna McNeeley	DATE: 12/23/2020	**Eaton**			
APPROVED BY	DATE	JOB NAME: Horizon Uptown			
		DESIGNATION			
VERSION: 1.0.0.0		TYPE: CHESS_ST		DRAWING TYPE: Customer Appr.	
NEG-ALT Number: DNIM1003X8K1-0008	REVISION	DWG SIZE: A	G.O.	ITEM	SHEET: 4 of 5

1. Using contract one-line or riser diagram as reference, provide cable lengths, phase conductor sizes (AWG, MCM), # of sets per phase, types (AL or CU), whether single-conductor cable or three-conductor cable, and whether raceway is Magnetic or Non-magnetic.

2. If customer owns incoming transformer: winding (delta-wye ground, etc.), kVA rating, impedance %Z, kV ratings.

3. If customer owns incoming transformer: primary fuse manufacturer, type, amp rating, and speed rating.

4.Generator submittal including X"d reactances, current decrement curve, and withstand curve

5. Generator local-mounted breaker manufacturer, type, ampere rating, trip unit type, functions

6. Non-Eaton supplied ATS manufacturer, type, ampere rating, & short circuit withstand rating

7.If any Chillers, Elevators, AHU's, AC's, or RTU's, need motor horsepower rating, and if not indicated - where connected to system single line diagram

8. Summary of any additional motor hp that may be connected to distribution panels but not shown on single line or riser diagram

9. For other than Eaton supplied fuses: manufacturer, type, catalog number, and ampere rating

10. For existing overcurrent devices that are immediately upstream or downstream of the proposed Eaton equipment (if circuit breakers need manufacturer, type, plug rating, trip unit type, existing adjustable settings, & setting ranges, if fuses need manufacturer, type, catalog number, and ampere ratings, if relays need phase and ground overcurrent relay manufacturers, style numbers, phase and ground CT ratios, existing adjustable settings, and setting ranges)

Notes:

Comments Clarifications:

PREPARED BY: Anna McNeeley	DATE: 12/23/2020	**Eaton**			
APPROVED BY	DATE	JOB NAME: Horizon Uptown			
		DESIGNATION			
VERSION: 1.0.0.0		TYPE: CHESS_ST		DRAWING TYPE: Customer Appr.	
NEG-ALT Number: DNIM1003X8K1-0008	REVISION	DWG SIZE: A	G.O.	ITEM	SHEET: 5 of 5