

PUBLIC BUILDING COMMISSION OF CHICAGO

ADDENDUM NO. 2 TO CONTRACT NO. 1495

For

ENGINE COMPANY 109  
2343 S KEDZIE AVENUE  
CHICAGO, ILLINOIS 60623  
CITY OF CHICAGO FIRE STATION

DATE: October 30, 2009

**NOTICE OF CHANGES IN CONTRACT DOCUMENTS**

The following changes are hereby made in the Contract Documents.

**Changes to Book 3: TECHNICAL SPECIFICATIONS:**

ITEM NO. 1 SECTION 02550 - PERMEABLE PAVERS

- A. Subparagraph 2.2.B.2, add table indicating ASTM 8 requirements for paver joint material as per ATTACHMENT SECTION 02550 – PERMEABLE PAVERS.

ITEM NO. 2 SECTION 09967 – INTUMESCENT PAINTING

- A. Subparagraph 2.1.A.1 add the following Subparagraph 2.1.A.1.a: "Locations: Where required or indicated in areas other than the apparatus bay."
- B. Paragraph 2.1.A add the following Subparagraph 2.1.A.2: CAFCO SprayFilm WB4; Isolatek International for 1-hour UL designated rating.
- C. Subparagraph 2.1.A.2 add the following Subparagraph 2.1.A.2.a: "Locations: Where required or indicated in the apparatus bay."

ITEM NO. 3 SECTION 10511 – METAL LOCKERS

- A. Subparagraph 2.3.B.1 delete the words "# inches high" and substitute "6 feet high (not including base and sloped tops)".
- B. Subparagraph 2.3.K.1.a add the following Subparagraph 2.3.K.1.a.1): "Location: Officers' Quarters."
- C. Subparagraph 2.3.K.1.b add the following Subparagraph 2.3.K.1.b.1): "Location: Men's Locker Room and Women's Locker Room."

ITEM NO. 4 SECTION 15747 – GROUND HEAT EXCHANGER (GHEX) DESIGN

- A. Paragraph 1.4D add the following sentence: "Alternate designs must stay within the well field footprint limits outlined on the drawings."

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- B. Article 2.1 add the following Paragraph 2.1.D:
  - "D. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
    1. MuoviTech
    2. Charter Plastics
    3. Centennial Plastics
    4. Isco Industries"

### ITEM NO. 5 SECTION 15765 – LOW INTENSITY INFRARED RADIANT TUBE HEATERS

- A. Article 3.1 add the following Paragraph 3.1.G: "Provide manufacturer's standard Side Shield option for all heaters. Coordinate length and depth with heaters and surrounding building infrastructure."

### ITEM NO. 6 SECTION 16289 – TRANSIENT VOLTAGE SUPPRESSION

- A. Paragraph 2.3.C modify to read: "Peak Single-Impulse Surge Current Rating 240 kA per mode/480 kA per phase."
- B. Paragraph 2.4.C modify to read: "Peak Single-Impulse Surge Current Rating: 120 kA per mode/240 kA per phase."

### Changes to DRAWINGS:

#### ITEM NO. 7 DRAWING C3.2 – SITE EROSION AND SEDIMENTATION CONTROL PLAN

- A. Modify drawing as indicated on ATTACHMENT CSK-4.

#### ITEM NO. 8 DRAWING L2.0 – LANDSCAPE DETAILS AND PLANT SCHEDULE

- A. Revise Plant Schedule to incorporate "144 \_ HE \_ Hedera Helix \_ English Ivy \_ #1 pot \_ 12" O. C. " to match quantity currently indicated on L1.0.

#### ITEM NO. 9 DRAWING A2.1 – REFLECTED CEILING PLANS AND DETAILS

- A. REFLECTED CEILING PLAN – FIRST LEVEL
  1. Near column lines E-6, delete the ceiling finish tag indicating "GWB" and substitute "EFS".

#### ITEM NO. 10 DRAWING A3.1 – EXTERIOR BUILDING ELEVATIONS

- A. Elevation 13 - WEST ELEVATION – RECYCLE
  1. Modify drawing as per ATTACHMENT ASK-3.
- B. Elevation 24 - NORTH ELEVATION
  1. Modify drawing as per ATTACHMENT ASK-4.
- C. Elevation 63 - WEST ELEVATION – PATIO
  1. Modify drawing as per ATTACHMENT ASK-5.
- D. Elevation 64 - SOUTH ELEVATION
  1. Modify drawing as per ATTACHMENT ASK-6.

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### ITEM NO. 11 DRAWING A5.4 – WALL SECTIONS AND DETAILS

- A. Drawing 54 – WALL SECTION – CANOPY 2
  - 1. Modify drawing as per ATTACHMENT ASK-7.

### ITEM NO. 12 DRAWING A6.1 – EXTERIOR PLANS, SECTIONS AND ELEVATIONS

- A. Detail 24 - METAL LOGO DETAIL
  - 1. Modify drawing as per ATTACHMENT ASK-8.
- B. Detail 34 – METAL LOGO DETAIL
  - 1. Modify drawing as per ATTACHMENT ASK-9.

### ITEM NO. 13 DRAWING A8.4 – ENLARGED INTERIOR PLANS, SECTIONS AND DETAILS

- A. Where solid surfacing countertop material is indicated at the watchtower, color is to be “SSM1” as identified in the specifications.

### ITEM NO. 14 DRAWING A8.5 - ENLARGED INTERIOR PLANS, SECTIONS AND DETAILS

- A. Elevation 52 - ADA OFFICER'S QUARTERS – EAST
  - 1. Modify drawing as per ATTACHMENT ASK-10.

### ITEM NO. 15 DRAWING A10.0 – INTERIOR ELEVATION

- A. Elevation 31 - INTERIOR CORRIDOR 101 – EAST
  - 1. Modify drawing as per ATTACHMENT ASK-11.

### ITEM NO. 16 DRAWING A12.1 – DOOR AND FRAME SCHEDULE & DETAILS

- A. Detail 33 – Detail – Jamb
  - 1. Add detail as per ATTACHMENT ASK-12.

### ITEM NO. 17 DRAWING A13.1 – ROOM FINISH, SIGNAGE SCHEDULE AND FINISH PLAN

- A. SIGNAGE ELEVATIONS
  - 1. Modify Sign “H” as per ATTACHMENT ASK-13.
  - 2. Add Sign “Q” as per ATTACHMENT ASK-14.

### ITEM NO. 18 DRAWING A13.2 – FINISH PLANS AND DETAILS.

- A. Delete drawing and substitute as per ATTACHMENT A13.2.

### ITEM NO. 19 DRAWING S2.3 – MISCELLANEOUS DETAILS

- A. DETAIL 2 - ROOF FRAMING PLAN AT GENERATOR ENCLOSURE
  - 1. Revise note #1 as follows:

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"G1 - Indicates span direction of galvanized welded steel bar grating with 2"x3/16" bearing bar size and 1 3/16" bearing bar spacing and 4" cross bar spacing."

2. Revise W12x26 T/Steel Elevation from T/St. = 111'-6" to T/St. = 111'-5 1/2"

### B. DETAIL 6 - T/GENERATOR ENCLOSURE WALL SECTION

1. Revise Bar Grating depth from 1 1/2" to 2".

### ITEM NO. 20 DRAWING S3.2 – MASONRY DETAILS

#### A. DETAIL 12 - SECTION AT WF BEAM TO MASONRY WALL CONNECTION

1. Revise Bar Grating depth from 1 1/2" to 2".

### ITEM NO. 21 DRAWING M1.2 – HVAC FLOOR PLAN

- A. Add mounting height of 19'-0" AFF for infrared heaters in Apparatus Bay.
- B. Add keynote 16 as follows: "Provide manufacturer's standard Side Shield at all heaters to protect structural members from direct heat radiation. Side shield depth shall be flush with bottom of truss. Coordinate penetrations in side shield with truss cross bracing."

### ITEM NO. 22 DRAWING M2.1 – HVAC PIPING FLOOR PLAN

- A. Modify drawing as per ATTACHMENT MSK-1

### ITEM NO. 23 DRAWING M5.1 – MECHANICAL SCHEDULES

- A. Modify drawing as per ATTACHMENT MSK-2
- B. Water Source Heat Pump (Water to Air), Water Source Heat Pump (Water to Water) note 3 and Makeup Air Unit note 4 revised to read:  
  
"Provide all possible points as shown on IAS drawings. Any points not available through Ionworks card shall be the responsibility of SI contractor."

### ITEM NO. 24 DRAWING E4.2 – ELECTRICAL SCHEDULES

- A. Modify light fixture schedule for light fixture type "O". The light fixture shall have a standard 18W lamp instead of a 26W lamp. Special modification to the fixture no longer required.

### ITEM NO. 25 DRAWING P1.1 – PLUMBING UNDERGROUND PLAN

- A. Modify drawing as per ATTACHMENT PSK-7

### ITEM NO. 26 DRAWING P0.0 – PLUMBING SCHEDULES

- A. Modify drawing as per ATTACHMENT PSK-8

### ITEM NO. 27 DRAWING P1.5 – PLUMBING ROOF PLAN

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A. Modify drawing as per ATTACHMENT PSK-9

ITEM NO. 28 DRAWING GC1.0 – GEOTHERMAL SITE PLAN

A. Modify drawing as per ATTACHMENT GC1.0.

ITEM NO. 29 DRAWING IAS4.01 – IAS DETAILS AND POINTS LISTS

A. Modify drawing as per ATTACHMENT IAS4.01

ITEM NO. 30 DRAWING IAS4.02 – IAS DETAILS AND POINTS LISTS

A. Modify drawing as per ATTACHMENT IAS4.02

ITEM NO. 31 DRAWING IAS4.03 – IAS DETAILS AND POINTS LISTS

A. Modify drawing as per ATTACHMENT IAS4.03.

ITEM NO. 32 DRAWING IAS4.06 – IAS DETAILS AND POINTS LISTS

A. Modify drawing as per ATTACHMENT IAS4.06.

ITEM NO. 33 DRAWING IAS4.07 – IAS DETAILS AND POINTS LISTS

A. Modify drawing as per ATTACHMENT IAS 4.07.

ITEM NO. 34 DRAWING IAS4.08 – MONITORING & SEC. DETAILS & POINT LISTS

A. Modify drawing as per ATTACHMENT IAS4.08.

### QUESTIONS & ANSWERS:

A. QUESTION: Drawing TP.1 shows the potential locations of existing building footings that we need to remove for portions of our scope of work. There is a note on the drawing that states that a color version of the drawing is available upon request. Could you please provide that color version so that we can more easily see where potential existing footings may be located?

1. RESPONSE: Cushing has these files and can print them for you upon request. Please also review the as-built surveys provided with Addendum 1 for additional foundation locations identified as part of the site preparation scope of work.

B. QUESTION: Please refer to sheet A3.1, the elevations are calling for a graffiti coating. I could not find any product information in the specifications. Please provide.

1. RESPONSE: Please review specification 07190 – WATER REPELLANTS and the remainder of the contract documents.

C. QUESTION: Are the countertops and sinks in the locker room, common toilet, and the officer's quarter to be stainless steel with an integral sink?

1. RESPONSE: Yes. Please review all of the drawings, including and sections and details at these locations to fully understand the design intent.

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- D. QUESTION: Please confirm that board of underground approval is not required for the permit process.  
1. RESPONSE: OUC approval is required for the Communications Tower and if the Contractor decides on means of methods of construction that would require OUC approval.
- E. QUESTION: What is an acceptable time frame that the PBC will approve in the schedule for obtaining the building permit once all contractor provided information is received?  
1. RESPONSE: Refer to Book 2, Article 6 for the contractor's permit responsibilities. Thirty (30) days from. Notice to Proceed would be an acceptable time frame to include in the project schedule.
- F. QUESTION: Please confirm the telecommunications tower will be permitted separately from the building permit?  
1. RESPONSE: Yes.
- G. QUESTION: Can the Project Manager or Superintendent act as the MEP coordinator?  
1. RESPONSE: No. Refer to Book 2, Section 9.05.
- H. QUESTION: Can the Project Manager or Superintendent act as the LEED AP?  
1. RESPONSE: Per Book 1-01352-1.5.A. Prior to engaging in the work the GC would have to demonstrate that the individual has the qualifications and will provide a consistent presence and participation throughout the job. The PBC will reserve the right to require additional manpower if the LEED tasks are not addressed.
- I. QUESTION: Will the "steel angle overhead door supports" (33/A4.1) in the apparatus room receive the intumescent paint or just paint to match P2?  
1. RESPONSE: The steel angle overhead door supports do not require the intumescent paint system.
- J. QUESTION: Is Walk off Mat by GC? Can you please provide specification for the Walk off mat?  
1. RESPONSE: Specification Section 12486 – ENTRANCE FOOT GRILLES is included in the bid documents.
- K. QUESTION: Are window shades by GC? Can you please provide specification for the window shades?  
1. RESPONSE: Specification Section 12241 – ROLLER WINDOW SHADES is included in the bid documents.
- L. QUESTION: 4/A6.0 – Will the "concrete topped metal deck" (4/A6.3) in the apparatus room receive the intumescent paint? Or just the structural steel?  
1. RESPONSE: No. Only structural steel supporting the roof, columns and other members identified on Drawing G0.3 throughout the building require the intumescent paint system.
- M. QUESTION: On sheet L1.0, there is a plant label HE (at the parking lot entrance). This item is not on the plant list on sheet L2.0, please clarify what perennial and size this is.  
1. RESPONSE: 144 HE Hedera Helix English Ivy #1 pot 12" O. C. Information and changes are incorporated with Addendum 2.
- N. QUESTION: On sheet L1.0, there are two areas listed as Buffalo Grass, and the landscaping specs list sod as the only turf material. We are not aware of any supplier that grows Buffalo Grass sod. Please clarify if this is correct, or if the sod is a different type (RTF, bluegrass, etc.).  
1. RESPONSE: The species type is correct and our understanding is Buffalo Grass can be laid as sod and has been laid at recent public projects.

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- O. QUESTION: Do we need to use epoxy mortar or is this set acceptable?  
1. RESPONSE: Please follow the specifications.
- P. QUESTION: Are we responsible for the existing foundation removal for utilities and will this be part of base bid or site allowance? If base bid could you please supply a detail to show the existing foundation where the tie-ins exist?  
1. RESPONSE: Please refer to the utility plan for design intent on utility tie-in locations. The site demolition plan outlines the criteria for removal of foundations required for penetrations.
- Q. QUESTION: Specification section 07520 item 2.1 lists American Hydrotech as the only acceptable manufacturer of the green roof system and then also lists that no substitutions are allowed. Please confirm that the PBC is listing American Hydrotech as the sole manufacturer of the green roof system. If the PBC is not solely specifying American Hydrotech, please revise the specification to allow other products to be used  
1. RESPONSE: The specifications are inclusive of the manufacturers currently approved.
- R. QUESTION: Are the specifications for ADA metal lockers (ML-3) any different in size than the standard lockers (ML-2)?  
1. RESPONSE: Drawing A8.1 outlines the four different locker types. ML-3 is an accessible locker and must meet all applicable code requirements for accessibility, but with the design intent established.
- S. QUESTION: What size are the lockers in the Officer's Quarters? Is ML-4 the ADA locker? Please clarify the quantity of the ML-4 lockers. There are four shown on 52/A8.5, but only one shown on sheet A16.2 in the furniture schedule.  
1. RESPONSE: Drawing A8.1 outlines the four different locker types. ML-4 is an accessible locker. The legend is to help identify the various items tagged throughout the contract documents. Clarification on tagged lockers between 52/A8.5 and A16.2 is clarified as part of Addendum 2.
- T. QUESTION: Provide the specifications/description for the LCD television (E-1).  
1. RESPONSE: Please review the AV Equipment specifications.
- U. QUESTION: Are the costs for the telecommunications tower to be included for the design that is shown on S2.3?  
1. RESPONSE: Yes. The project bid should be based on the current drawings. When a tower manufacturer is chosen and final design loads and caisson design for the Communication Tower are provided by the manufacturer, the caisson depth can be revised as needed.
- V. QUESTION: C2.0 – Can the sidewalk along the east side of S Kedzie Ave be closed during the full duration of construction and pedestrian traffic routed to the west side of S Kedzie Ave?  
1. RESPONSE: The General Contractor is responsible for the means and methods of construction on, around and in the public way. The General Contractor will be responsible to review proposed methods of site logistics and means and methods of construction with CDOT officials for approval of proposed methods and logistics.
- W. QUESTION: C2.0 - Can the sidewalk along the north side of W 24<sup>th</sup> St be closed during the full duration of construction and pedestrian traffic routed to the S side of W 24<sup>th</sup> street?  
1. RESPONSE: The General Contractor is responsible for the means and methods of construction on, around and in the public way. The General Contractor will be responsible to review proposed

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methods of site logistics and means and methods of construction with CDOT officials for approval of proposed methods and logistics.

- X. QUESTION: 1/C4.0 – Note indicates “trench box by others”. Who is to provide the trench box?  
1. RESPONSE: This note was removed in Addendum 1; however, the answer remains that the General Contractor is responsible for means and methods of construction for excavation on the site. A trench box could be one method the GC could use on the site, and thus the GC would be responsible for providing all necessary items for the means and methods chosen.
- Y. QUESTION: A1.1 details 53 and 56 call out for 4” metal Z furring 16ga. Drywall supply houses are confirming that they do not carry 4” 16ga Z furring. They only carry up to 2-1/2” 20ga Z furring.  
1. RESPONSE: The scope/use of the 4” Z’s is limited on the building. The contractors may need to ask manufacturers such as Dietrich or others to custom break and form to size indicated.
- Z. QUESTION: Has there been another source approved for CU Structural Soil other than Midwest Trading Horticultural Supplies, inc.?  
1. RESPONSE: To our knowledge, there is only one supplier for this Chicago required CU Structural Soil.
- AA. QUESTION: Please clarify the Commissioning requirement for LEED certification: Will the Owner provide the Commissioning Agent, or is that an expense we should include in the bid?  
1. RESPONSE: The PBC will provide the Commissioning Agent. The Commissioning Agent for the Engine 109 project is ECUBE. Per Book 1, Section 01352.A, the Contractor is to engage the LEED Coordinator.
- BB. QUESTION: My engineer is concerned with what is below/ attached. I am working with some erectors to see if they are concerned. If just some welds/sizes of plates were changed it would go away but there may be some underlying reason the engineers want it done this way that we don’t know about. Also, can you confirm it will be acceptable to shop splice the truss to ship out full 76’ truss to jobsite. Attached is a proposed alternate for connecting the 76’ long roof trusses to supporting columns. Bid drawings don’t give the reasoning behind the restrictions/requirements of detail 8/S4.2. However, its use of field welding and joint configuration (1.) requires truss-to-column connection end plates (called out to be of a varying thickness) to be shipped loose, (2.) requires very expensive shoring and falsework--if the work is to be done in the air (and it may have to be!), (3.) blocks field welding access to all-around full penetration welds of the HSS 8x8x1/2 on struts that frame to column faces and are perpendicular to the trusses and (4.) does not include end reactions on which to base required strength of temporary erection seat connections. The sketched alternate makes some assumptions--most should be apparent by the sketch details. To provide a competitive bid price and prevent the successful shop/erector team from being burned REALLY bad, some coordination between shop/erector needs to occur and also some qualification (perhaps inclusion of the sketch before or with the bid) needs to be made.  
1. RESPONSE: No sketch was provided with the RFI. TGRWA’s response is limited to the question noted in the RFI. 1) The varying end connection plate thickness shown in 8/S4.2 is intended to help with construction tolerances of the truss / column connections at each end of the truss. 2 & 4) A temporary erection seat by the Contractor is conceptually shown to be used while the permanent connections shown on the Contract Documents are completed. The temporary erection seat is to be designed & detailed by the Contractor, including the temporary means and methods loading during construction. 3) For bidding purposes, the truss should be detailed as shown on the Contract Documents. 4) It is acceptable to shop splice the truss. The splices shall be made with full penetration welds and the details of the proposed splices and their locations shall be submitted to the architect and engineer for review and approval.

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- CC. QUESTION: On drawing S2.3, detail 8, the communication tower foundation shows a bottom of caisson at elevation 50'0" (-35.6 CCD) with a design bearing capacity of 10,000 PSF. After reviewing soil boring CTB-01, BL-05 and BL-06, rock was encountered at -43'6" to -45'6" below ground. Will the caisson be required to core into rock? Do we need to reach -50'0" or can the caisson stop above the rock and sand layer, in the silty clay layer at -40'0"?
1. RESPONSE: The drawings call out a depth of caisson of 50' which will core into the weathered bedrock ~3'. The project bid should be based on the current drawings. When a tower manufacturer is chosen and final design loads and caisson design for the Communication Tower are provided by the manufacturer, the caisson depth can be revised as needed.
- DD. QUESTION: Regarding showing non-load bearing masonry walls on the structural drawings.
1. RESPONSE: All of the structural CMU walls are shown on the structural drawings. Additionally, a thickened slab-on-grade is specified below interior non-load-bearing masonry walls with a typical slab detail. The Contractor shall refer to the Architectural drawings for locations of all non-load-bearing masonry walls, as this is how the walls are located in the building.
- EE. QUESTION: Regarding geothermal warranties on piping.
1. RESPONSE: Manufacturers that are available for manufacturing pipe to meet the project specifications are included in Addendum 2, Item 4 and 28. The specifications are very specific that alternate designs, for the GHEX are acceptable, but require several submittals to certify the design. Please review the specifications carefully to understand the requirements.
- FF. QUESTION: Ref. P1.1, by cols. 11 and J, and note a 3' diameter basin with backwater valve. No details on these are shown on P drawings. In spec sect. 15160, 2.8, it says the valve is to be encased in concrete, with a solid, steel cover. I believe this means installed in the concrete basin. No other information is provided (mfg., depth, etc.). 15160, 3.5, D, 3, says backwater valve is spec'd in div. 15 "plumbing specialties". No such section exists. Please provide more information so that the basin can be priced correctly
1. RESPONSE: Provide 3'x5' Fiberglass basin with flange with bolted, flush mounted steel cover. Backwater valve shall be J.R. Smith model 7022S. Refer to attachment PSK-7.
- GG. Contract drawing P1.4 shows the 3" horz. Storm piping inside of the tower comm room. Please advise if a drip pan system needs to be installed under this piping and if so where the drain from the drip pan is to be run to
1. Piping shall be Type M copper with solder fittings as indicated on sheet P1.4, no drain pan required
- HH. On drawing P1.5, canopy roof drains are not shown please provide location and type.
1. Provide RD-2 at canopy roof drains; refer to attachments PSK-8 and PSK-9.
- II. 1) The CCTV Specification indicates that the controlling equipment is to be Analogue base and the specified cameras are IP based. What is your intention of how these two different technologies are to be integrated? 2) An Axis 233D is specified to be installed. How is this camera to be integrated into this analogue system? If this IP camera is to be controlled by another system, what is that system and how will this camera integrate? 3) Who is responsible for the integration software, hardware and programming of any of site controlling systems for these cameras? What systems will be controlling these cameras off site? 4) Is this CCTV system to be Analogue or IP based?
1. We have specified the UTP cables between CCTV cameras and equipment so that cabling infrastructure is capable for either analog or IP system. The cameras specified in the drawing T5.1 are analog cameras with an ability to add IP network capability. In future, if IP cameras are desired by OEMC, equipment like network switch, NVR should be purchased separately without any

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changes to cameras or cabling infrastructure. 2: CCTV-5 (Axis 233D) will be resolved in the future addendum. 3: Refer to Specification section 16781 1.4 b.2

- JJ. 16781, E1.1 shown a total of 9 cameras, on T3.1, camera CCTV-5 is not shown. Is CCTV-5 considered future? 17320, The spec calls out for (25) speaker phones & (4) single line phones which seems excessive for the amount of tele data locations shown on T1.2 & E2.1. 17410, the spec calls out for Twisted Pair but on the drawing T3.1 (Diagram 1) it references RG6. Please clarify the media required for the project. 17410, If twisted pair is required; drawing T3.1 (Diagram 1), Under the Keyed Note 6, We would like to substitute a Lynx 040-0102 16-Port broadband hub for the Endeleo TVM1600. The Endeleo system is a very expensive system. The Endeleo system is approximately \$6000.00 and people need to be trained to be able to use this system after installed and Lynx system is \$1000.00 and after the Lynx system is installed requires no upkeep. 17410, If RG6 is required; drawing T3.1 (Diagram 1), Keyed Notes 3, 4, 5, 6, 8, 9 & 10 would be deleted. The RG6 is the system that was put into Engine 121, 18, 70 & 102.
- 1: CCTV-5 (Axis 233D) will be resolved in the future addendum 3.2. Specification Section 17320 1.2 A has been updated. Provide tele/data devices as indicated on the drawings. 3. Twisted pair and RG6 cabling shall be used as indicated on T3.1 diagram 1. 4. All substitutions from products not listed in the specifications or drawings shall be submitted to the PBC for approval. Refer to Book 1 for form and documentation requirements for all substitutions.
- KK. I need clarification regarding the TD1 for the subject job. Do you need any finish on the rails or grates for TD1?
1. The trench drain rail and grates for TD-1 are to be stainless steel, no finish is required. Refer to attachment PSK-8.
- LL. I do have a question regarding the surge suppression. In section 16289 of the written specifications for service entrance suppressors the surge current capacity requirement is 320kA per mode minimum which would be 640kA per phase. Specifications are typically consistent on how performance criteria are clearly defined for bidding purposes. I am bringing this to your attention as for the panel board suppressors it lists 160kA per phase. Usually surge current ratings (kA ratings) are listed per mode or per phase for all locations. I am only assuming here but I believe that the 320kA per mode is a typo. I believe it should read 320kA per phase just as the panelboard per phase ratings read - 160kA/phase. Please advise what is required on the service entrance suppressor - 320kA per mode or 320kA per phase.
1. Service entrance rating revised to: 240 kA per mode/480 kA per phase. Panelboard rating revised to: 120 kA per mode/240 kA per phase. Refer to Addendum 2 revisions to specification section 16289.

### List of Attachments:

SECTION 02550 – PERMEABLE PAVERS

CSK-4

ASK-3

ASK-4

ASK-5

ASK-6

ASK-7

ASK-8

ASK-9

ASK-10

ASK-11

ASK-12

ASK-13

ASK-14

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A13.2  
MSK-1  
MSK-2  
PSK-7  
PSK-8  
PSK-9  
GC1.0  
IAS4.01  
IAS4.02  
IAS4.03  
IAS4.06  
IAS4.07  
IAS4.08

END OF ADDENDUM NO. 2