



ARCHITECTURE
ENGINEERING

June 13, 2018

DELAWARE STATE POLICE – TROOP 7

Lewes, Sussex County, Delaware
2011116.01

ADDENDUM FIVE

The addendum forms a part of the contract documents and modifies the original bidding documents, dated May 17, 2018 as distributed at the Pre-Bid Meeting on May 22, 2018 as noted below.

GENERAL

1) **Bidding Schedule**

- a. **Last Day for Bidder Questions** – Wednesday June 13, 2018. Questions shall be received by 5:00 pm EST.
- b. **Last Addendum Issued** – Friday June 15, 2018.
- c. **Bids Due / Bid Opening** – Wednesday June 20, at 2:00 pm EST.

CLARIFICATIONS

- 1) **Room 123:** name REVISED to “OFFICE”, ceiling devices adjusted to align with ceiling grid on A104.
- 2) **Guardrails / Handrails:** Type 1 – 42” guard w/ handrail, Type 2 - Wall mounted handrail, Type 3 – 42”, Handrail, Type 4 – 36” guard/handrail. Refer to A002, detail 4.
- 3) **Addendum 04:** Drawings E101 and ES101 were noted to be provided with Addendum_04 per responses to questions 4 & 13 in Addendum 04. They are included as part of this addendum.

SUBSTITUTION REQUESTS

- 1) **Engine Generator:** Kohler is an acceptable alternative manufacturer.

* It is the contractor’s responsibility for any costs associated with deviating from the basis of design that subsequently become apparent or that are apparent now. Costs associated could include but are not limited to additional structure, space constraints for equipment service, electrical power requirements (breaker/fuse sizing and wire sizing changes), and piping connection location modifications. The contractor shall ensure approved as equal equipment meets or exceeds all requirements found both on the drawings and in the specifications provided for this project. Any approved as equal equipment submitted may be rejected that does not satisfy the specifications. The Architect / Engineer has not redesigned the project around this substitution.



ARCHITECTURE
ENGINEERING

BIDDER QUESTIONS & RESPONSES

- 1) Sheet A802 details reference to structural drawings for the roof deck, however the 2 sheets S801 and S802 that correspond with the maintenance building don't address. Are we to assume 1 ½" B-Deck specifications on the main building S001 is the same type of roof deck for the maintenance building?

Response: The type of roof deck is anticipated to be 1 ½" deep, the final type of deck shall be determined by the Metal Building Manufacturer through their Delegated Design Engineer as outlined in the specification section 133419 to meet the performance requirements.

- 2) Are the interior columns recessed at column lines 1-5, and if so by how much?

Response: The baseplates for the interior columns shall be recessed a min. of 8" from the finished floor or as required to ensure bolts to not conflict with slab.

- 3) Where is the power factor correction capacitor that is indicated on single line drawings E500 located?

Response: Locate the PF correction capacitor in Electrical Room 145 adjacent to the fire alarm control panel (see revised plan 1/E301 issued in Addendum 4)

- 4) Is there an A/V specification or specific drawing? E000 A/V Symbol says to provide components for cabling but details are not provided?

Response: Provide components for A/V outlet as indicated on SEC drawings. There is an allowance for the A/V to be purchased and installed, refer to specification section 012100 Allowances.

- 5) Sheet A104 shows "P" in Rooms 131A, 131B, and 134A. What does the "P" mean?

Response: P is a short form Room Name designation for "Plumbing" refer to the finish schedule.

- 6) Detail 17/S202 shows the catwalk and railing referring to architectural. Architectural drawings Sheet A102 shows Catwalk 203 with Guardrail Type 2, Detail 6/A303 shows Catwalk 203 with Guardrail type 1 while detail 3/A304 shows Catwalk 203 with Guardrail Type 3. Please confirm what type of Guardrail, and provide details.

Response: The Catwalk Guardrail shall be Type 3, refer to detail 4/A002 for guard / railing types. 4/A002 has been revised and issued as part of Addendum_0.5

- 7) Are the concrete benches by the Detention Furniture contractor or the concrete contractor? There is no information in the Detention Furniture specification for the concrete benches. There are no details or reference to architectural on the structural drawings. Please clarify.

Response: Concrete bench is part of the work. See detail 6/A401.

- 8) The exterior stair shown on Sheet A402 shows Guardrail Type 1 and 3. Please provide details.

Response: Refer to detail 4/A002.



ARCHITECTURE
ENGINEERING

- 9) Detail 6/A402 shows Handrail Type 2 at ramp. Is this handrail metal or wood? Please provide details.

Response: Refer to detail 4/A002.

- 10) Detail 9/A402 shows a ships ladder at Equipment Platform 201. Please provide specification for this item.

Response: See specification section 055000 – METAL FABRICATIONS.

- 11) Is the self-closing safety gate shown in details 9 & 11/A402 to be part of the guardrail system at Equipment Platform 201? Please provide specification / details.

Response: Safety Gate is part of railing work. Basis-of-Design for gate is McMaster-Carr, model # 4073K13, or equivalent.

- 12) Can the AWI certification for the millwork be waived?

*Response: The following Fabricators and Installers are pre-approved to waive AWI QCP participation and certification requirements, otherwise the AWI may **NOT** be waived.*

- A. *Bowmar Millwork Corporation, Princess Anne, Maryland*
- B. *Cabinetry Unlimited, Selbyville, Delaware.*

- 13) In the Traffic / Patrol 113 on sheet E101, there is a Key Note 6 referencing under-slab conduits and refers to detail 5/E704 which shows a floor box, not shown on E101. Key Note 9 on sheet E101 states to install these same devices into the furniture millwork and refers to the Architectural Drawings. Architectural drawings state the furniture is by others. Please clarify how the furniture in the Traffic/Patrol 113 gets wired.

Response: Notes on sheet E101 have been updated.

- 14) Can the substitution process be modified for the Spray Foam Air Barrier under Specification Section 072736 to allow those contractors who are certified under ABAA within the State as an acceptable alternative? If not, can the date to request substitution as prescribed in the specification be extended?

Response: The specification section 072736 – Sprayed Foam Air Barrier, has been REVISED per Addendum_05 to include the following additional approved installers:

Capital Insulation Services

8265 Patuxent Range Rd

Jessup, MD 20794

Robert Procida – (240) 712-1734 – Robert.Procida@truteam.com

Summit Insulation & Contracting

8246 Beachwood Rd.

Baltimore, MD 21222

Dan Biser (o) (410) 64-8000 – (c) (443) 632-8565 –

dan@summitinsulation.com



ARCHITECTURE
ENGINEERING

- 15) Can the ABAA project requirement as outlined in Specification Section 072736 be waived so long as the ABAA quality standards are met as

Response: No.

- 16) Please confirm which ceilings get metal ceilings. What type of ceilings do TLT Rm 118 and SOFT INT. Rm 119 receive?

Response: Finish schedule has been REVISED as part of Addendum_05 to clarify ceiling types. TLT Rm 118 and SOFT INT. RM 119 shall be metal security ceilings, Type 5.

- 17) E202 – Uniform Storage 158, fixture note typed. Please advise.

Response: Fixture is type "C3" plans have been updated to reflect.

- 18) E201 – just below Interview 108E, there is a fixture fed from COLP1-16 that is not typed. Please advise.

Response: Fixture type "WE" plans have been updated.

- 19) ES101 – Will the fuel dispensing system be part of Alternate # 1 Maintenance Building.

Response: No, the components in the contract for the fuel dispensing system shall be provided as part of Base Bid.

- 20) ES101 – Note 3, how can this be done if Alternate # 1 is not taken?

Response: Base Bid shall include duct bank to 5' outside of maintenance building.

- 21) We do not see the specifications for the following items: Interior and Exterior Lighting, Surface Raceway (Wiremold), Heat Trace. Please advise.

Response: Refer to lighting schedule for lighting fixture requirements. An updated raceway specification & a new heat trace specification is included in this Addendum.

- 22) E801 – Elec./Mech Rm 108. HWH & HWRP no circuit shown on DWG or panel.

Response: Wire water heater and recirc pump together. Assign to circuit "corp3-60" using ¾" c: 2#12, #12gnd.

- 23) E101 – Note 25. Is there an EM switch for this?

Response: Yes, include switch.

- 24) E102 – Evidence Processing 172, Note 10, will a disconnect switch be required as shown on floor plan for the 120v, 20a, equipment?

Response: No, removed from drawings.



ARCHITECTURE
ENGINEERING

25) E102 – Detail 2: What is the location for the heat trace controller?

Response: Refer to heat trace diagram on e102. Locate nearby on exterior wall.

26) M601 – VAV Boxes, will they require 120v power?

Response: No, the VAV boxes will be powered thru the BAS.

27) E103 – AHU-1 – what size conduit and wire?

Response: ¾" c: 3#12,#12gnd as stated on drawing.

28) E103 – AHU-1 – will this unit require a VFD as called for on untie 2,3,4, and 5?

Response: No

29) E103 – ERU-1 – This unit is fed by a 3p 20a Circuit Breaker, but calls for #8 wire, is this correct?

Response: Yes

30) E301 – Detail 1, Electrical Rm 144 shows as disconnect in dashed lines. Please advise what this is for.

Response: This has been removed from drawing.

31) E301 – Detail 2, Just outside Fire Pump Rm 146 show a “U” type symbol. Please advise.

Response: Reference location of fire system Siamese connection

32) Section 101416 Plaques, Part 3.2 Building Commemoration Plaque layouts are missing, please provide layouts.

Response: The Final layout for the Commemoration Plaque will be determined as the project nears completion. We anticipate the plaque to include at a minimum, the Facility Name and Date, Names of 5 State Leaders and their Titles, as well as the Architect and General Contractor.

33) Sheet A201, Elevation 2, is the Dedication Plaque to be provided under Part 101416 Plaques? If so, provide specs

Response: Dedication Plaque as indicated on Sheet A201, Elevation 2 shall be provided per Specification Section 057000 Decorative Metal, which was issued in Addendum_01.

34) Specification Section 263213-2.04.I: Is Kohler Power Armor Plus coating acceptable for the sub-base tank?

Response: Yes

35) Specification Section 263213-2.04.K indicates to provide a complete fuel recirculating system for the generator sub-base fuel tank. Please confirm if this is required for this project. If so, where is this to be installed / mounted? Outside near generator tank or inside generator enclosure? This likely will not fit



ARCHITECTURE
ENGINEERING

inside generator enclosure and would need to be mounted outside the enclosure. Please advise location.

Response: Yes, outside the enclosure, Connect to 120v circuit.

- 36) Specification Section 263213-2.04.I.1.C mentions "Tramont Corporation" under the tank coatings section. Is the generator sub-base tank and enclosure to be manufactured by Tramont? There is no mention of a named manufacturer for the generator enclosure or sub-base tank anywhere else in the specification. Please advise.

Response: The sub-base tank and enclosure shall be from the generator vendor.

- 37) Regarding the wall lites, standard sizes are 5' or 10', is 10' acceptable?

Response: 5'-0" tall lites are acceptable.

- 38) Based on drawing A801 issued with Addendum_04, please confirm if there are metal panels between the Maintenance and Tactical Bays.

Response: No, that wall has been revised per Addendum_04 to be wall types and 5A and 1D (refer to plan for locations)

- 39) Specification Section 271005 – Structured Cabling System: As this is a State of Delaware Project, does the contractor performing the work need to be compliant with the following State of Delaware Specification: Standard ID: NE-Cabling-002 Title: Structured Cabling System Standards and Specifications for State-Managed Facilities Domain: Network and Storage Discipline: Cabling Revision Date: Revision no.: Original date: 1/8/2016 & 7/21/2008

Response: The following NE-Cabling-002 specification sections shall be followed in this project:

- PART 9 B2, B6 ,B7, D1, D2, D3
- PART 10
- PART 11 B
- PART 12
- PART 13
- PART 14
- PART 19

- 40) Does the contractor for this work need to be a recognized State of Delaware Cabling Vendor as outlined in: State of Delaware Contract - Data and Voice Structured Cabling, Contract No. GSS16441-DATA_CBL

Response: Yes

- 41) Section 271005-2.01 – manufacturers – Are Hubbell, Leviton, and Ortronics also allowed?

Response: See NE-Cabling-002 specification for additional vendors.

- 42) Drawing E-000 – Telecommunications outlet – Symbol is shown as a solid triangle – and that the number depicted next to indicates the number of category 6 cables at that outlet. Most all of these shown on the drawings do not have a number next to them to indicate the number of category 6 cables at that outlet. The description for this outlet also does not clearly indicate the number of category 6 cables to be at each outlet (the default / base values). Please advise as the number of category 6 voice cables and the number of category 6 data cables to be at each of these outlet locations?

Response: Refer to general notes on E101 & E102.

- 43) Drawing E-000 – Ceiling Mounted Wireless Access Point outlet – Please specify the type and quantity of cables to be at this outlet location. Also I do not see any of these on the drawings. Are there to be any in the building? Does the contractor own providing the actual Wireless Access point also or just the cabling? If required to provide the WAP please specify Manufacturer and Model.

Response: Each access point shall receive (1) CAT6 homerun to rack.

- 44) Drawing E-000 – Ceiling Mounted Telecommunications outlet - Please specify the type and quantity of cables to be at this outlet location.

Response: (2) as per general notes on E101 & E102.

- 45) Drawing E-801 – Half Shaded Triangles – I assume these are Telecom Outlet locations – these are not defined on Drawing E-000 Legend - Please specify the type and quantity of cables to be at this outlet location.

Response: Same as Main Building. Each shall receive (2) connections unless noted otherwise.

- 46) Maint. Bldg – The site plan shows conduits between the buildings for telecommunications – but I see no specific information in either the specifications or drawings for any actual Telecommunication tie cables to be installed between the buildings. Is this correct? If there are to be cables installed for this please specify types etc...

Response: The contractor shall utilize 6 strand multi-mode fiber (OM3 standard), and 6 strand single-mode fiber from the main building to the maintenance garage.

- 47) Specification Section 074113.16-2.4.C. Is there any tapered insulation required for the project? Is SecureRock cover-board required? Please clarify the rigid insulation over the metal roof deck is to be R-30 flat insulation over structurally sloped metal decking.

Response: Tapered insulation is not required. Cover board is not required. The rigid insulation is to be installed over structurally sloped metal decking. Refer to drawings for additional details. Specification section 074113.16 REVISED as part of Addendum_05.

- 48) Specification Section 074213.13-2.2.B.1. None of the listed Manufacturer's can meet the criteria of the specification nor any other Manufacturer's that we are aware of, other than the basis of design product, thus making this a proprietary specification. Will a revised specification / product be provided for the Metal Wall panels? Please advise.

Response: The IMETCO ELEMENT Wall Panel Systems is an acceptable product. The specification section has been REVISED per this addendum.

- 49) Is a roofing cover board required over the Polyisocyanurate roof insulation?

Response: No.

- 50) Please provide wall elevation for ceramic wall tile in rooms 103, 104, 160, 161, 162, 163, 164, 165

Response: The pattern for all tiled walls shall be the same as shown in Women's Toilet 163 – West interior elevation, 4/A702. (CT-2 from FF to 3'-4" AFF with CT-1 from 3'-4" AFF to ceiling)

- 51) Schluter EB is called for at the bottom of the ceramic to resinous wall base. Details 3&4/A702 show wall tile to the floor. Which detail is correct? Which type of Schluter EB brushed stainless steel is required?

Response: Provide wall tile to the floor. Specification REVISED to delete Schluter EB as part of Addendum_05.

- 52) The ceramic tile specification calls for waterproofing of backer board in Men's Locker 160 and Women's Locker 164, shouldn't it be in the shower rooms 161 and 165?

Response: Yes, specification revised as part of Addendum_05.

- 53) Addendum 4 Q & A 20 states the contractor owns installing the meter pit, meter and remaining work downstream of the meter (refer to note w-10 on drawing C301). The answer to this questions interpreted literally puts the start of the contract responsibility where the water service splits Domestic / Fire approx.. 410' from the property line of the site measured from Mulberry Knoll Rd. Assuming this is incorrect, please clarify where this contract is to start ownership of the water main work. If the answer in Addendum 4 is correct, please confirm all work upstream of note w-10 including fire hydrant and lateral piping is not owned under this contract.

Response: Correct, the previous contract owns from Route 24, all the way into the site, including the split of domestic and fire. Their contract terminates at the WV on the Fire and WV on the domestic (prior to the meter). Therefore, this contract owns everything from the 2 valves. Please refer to detail A-2 on sheet C-904, the previous contract terminates at the curb stop/curb box prior to the meter.

- 54) Confirm note W-9 on sheet C301 does not apply to this contract

Response: All of the work within the Right-of-way is not in this contract. That would include the jack and bore, casing, etc.



ARCHITECTURE
ENGINEERING

55) Confirm a water meter is not required for the 8” Fire Protection Service?

Response: Correct, fire protection is not metered.

56) C301 Note W-18 references a detail that does not exist, please clarify.

Response: Install gate valve in accordance with Tidewater standards and specifications, where shown on plans. Detail is A-18 on sheet C-904.

57) C301 Note W-17 incorrectly references the wrong drawing sheet, please clarify.

Response: Install hydrant and hydrant lead in accordance with Tidewater standards and specifications. Detail is A-7 on sheet C-904. In addition, only 1 is required in this contract per previous water scope clarifications.

58) A Maintenance of Traffic plan is not provided on the plans. Please provide additional information.

Response: Recommended MOT applications are located on C-603, note #26. Please reference standard DelDOT Typical applications. A maintenance of traffic plan was not required of this project by DelDOT as typical applications can be utilized by contractor.

59) Note G-17 references a detail that is not provided, please clarify

Response: Detail is located on Sheet C-901

PROJECT MANUAL VOLUMES 1, 2 AND 3

1) **SECTION 000110 – TABLE OF CONTENTS**

- a. ADD following section to TOC: SECTION 262933 – ELECTRICAL HEAT TRACING FOR PIPING

2) **SECTION 123200 – MANUFACTURED WOOD CASEWORK**

- a. ADD Paragraph 1.6.C.2:
2. Alternative Qualifications: The following Fabricators and Installers are pre-approved to waive AWI QCP participation and certification requirements in this section.
 - a. Bowmar Millwork Corporation, Princess Anne, Maryland
 - b. Cabinetry Unlimited, Selbyville, Delaware

3) **SECTION 072736 – SPRAYED FOAM AIR BARRIER**

- a. ADD Paragraph 1.5.A.1.a.5): Capital Insulation Services., 8265 Patuxent Range Rd, Jessup, MD 20794; Attn: Robert Procida – (240) 712-1734 – Robert.Procida@truteam.com
- b. ADD Paragraph 1.5.A.1.a.6): Summit Insulation & Contracting., 8246 Beachwood Rd., Baltimore, MD 21222; Attn: Dan Biser (o) (410) 64-8000 – (c) (443) 632-8565 – dan@summitinsulation.com

4) **SECTION 074113.16 – STANDING SEAM METAL ROOF PANELS**

- a. REPLACE paragraph 2.4.C.2 with the following:
2. Thickness: 3.0 inch base layer insulation. 2.5 inch second layer of insulation.
 - a. All insulation meeting R-value minimum R-30



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- 5) SECTION 074213.13 – FORMED METAL WALL PANELS
 - a. ADD Paragraph 2.2.B.1.f: IMETCO (Innovative Metals Company, Inc.) – ELEMENT Wall Panel Systems.
- 6) SECTION 093013 – CERAMIC TILING
 - a. DELETE Paragraph 2.8.A
 - b. DELETE Paragraph 3.3.J
 - c. REPLACE Paragraph 3.7.A.1.d.1) with: 1) Men’s Shower – 161
 - d. REPLACE Paragraph 3.7.A.1.d.2) with: 2) Women’s Shower – 165
- 7) SECTION 260535 – SURFACE RACEWAYS
 - a. Replace section.
- 8) SECTION 262933 – ELETRICAL HEAT TRACING FOR PIPING
 - a. Add section.

DRAWINGS

- 1) L101 – LANDSCAPE PLAN
 - a. Rear parking lot plantings relocated
 - b. River Jack Gravel Mulch added to flag pole area with corresponding detail added to the sheet.
 - c. (11) Sweetbay Magnolia trees added to plant list.
- 2) A002 – INTERIOR WALL TYPES AND DETAILS
 - a. 4/A002 – ADD description for TYPE-4, revise notation regarding Type 1 rail.
- 3) A101 – FIRST FLOOR PLAN
 - a. REVISE EWC type and fixture / wall positions at PUBLIC MENS 103 / PUBLIC WOMENS 104. REFER TO details 3/A501 and 1/A402 issued as part of Addendum_05.
- 4) A102 – PENTHOUSE AND CLERESTORY PLAN
 - a. REVISE note for Guardrail at CATWALK 203 to “TYPE-3”
- 5) A302 – BUILDING SECTIONS
 - a. 1/A302 – REVISE note for Guardrail at CATWALK 203 to “TYPE-3”
- 6) A303 – WALL SECTIONS
 - a. 6/A303 – REVISE note for Guardrail at CATWALK 203 to “TYPE-3”
- 7) A401 – ENLARGED PLANS AND SECTIONS
 - a. 1/A401 – REVISE guardrail type to “HANDRAILL TYPE-4”
 - b. 1/A403 – ADD note “TRENCH DRAIN – SEE PLUMB.”
- 8) A402 – ENLARGED PLANS AND SECTIONS
 - a. 1/A401 – REVISE EWC type, Wall types, fixture positions.
- 9) A501 – PLAN DETAILS
 - a. 3/A501 – REVISE EWC type and chase size.



ARCHITECTURE
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- 10) A601 – FINISH AND CASEWORK SCHEDULE
 - a. FINISH SCHEDULE – REVISE Ceiling Types / Notes at RM’s 116, 117, 118, 119, 121, 122, 123, 124, 125, 132, 133, 134, 135, 136, 137, 138, 139
- 11) P000 - PLUMBING - EQUIPMENT SCHEDULES & LEGENDS
 - a. Updated plumbing fixture schedule.
- 12) P101A - PLUMBING - AREA A FLOOR PLAN SANITARY PIPING
 - a. Updated fixture tags.
- 13) P101B - PLUMBING - AREA B FLOOR PLAN SANITARY PIPING
 - a. Updated fixture tags.
- 14) P102A - PLUMBING - SERVICE PIPING AREA A
 - a. Updated fixture tags.
- 15) P102B - PLUMBING - SERVICE PIPING AREA B & PENTHOUSE
 - a. Updated fixture tags.
- 16) E101 - FLOOR PLAN - POWER AND COMMUNICATIONS - AREA A
 - a. Edited notes.
- 17) E102 - FLOOR PLAN - POWER AND COMMUNICATIONS - AREA B
 - a. Edited notes, remove disconnect in processing room.
- 18) E201 - FLOOR PLAN - LIGHTING - AREA A
 - a. Added tag to light fixture near entrance.
- 19) E202 - FLOOR PLAN - LIGHTING - AREA B
 - a. Added tag to light fixture in room 158.
- 20) E301 - PARTIAL PLANS
 - a. Remove disconnect shown in electrical room.
- 21) E801 - ELECTRICAL - MAINTENANCE BUILDING POWER PLAN
 - a. Tied water heater and recirculation pump together.
- 22) E804 - ELECTRICAL - MAINTENANCE BUILDING - PANEL SCHEDULES
 - a. Added circuit for WH & HWRP.



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Attachments:

SECTION 260535 - SURFACE RACEWAYS
SECTION 262933 - ELECTRICAL HEAT TRACING FOR PIPING
DTI Standard: NE-Cabling-002
L101 – LANDSCAPE PLAN
A002 – INTERIOR WALL TYPES AND DETAILS
A401 – ENLARGED PLANS AND SECTIONS
A402 – ENLARGED PLANS AND SECTIONS
A501 – PLAN DETAILS
A601 – FINISH AND CASEWORK SCHEDULE
P000 - PLUMBING - EQUIPMENT SCHEDULES & LEGENDS
P101A - PLUMBING - AREA A FLOOR PLAN SANITARY PIPING
P101B - PLUMBING - AREA B FLOOR PLAN SANITARY PIPING
P102A - PLUMBING - SERVICE PIPING AREA A
P102B - PLUMBING - SERVICE PIPING AREA B & PENTHOUSE
E101 - FLOOR PLAN - POWER AND COMMUNICATIONS - AREA A
E102 - FLOOR PLAN - POWER AND COMMUNICATIONS - AREA B
E201 - FLOOR PLAN - LIGHTING - AREA A
E202 - FLOOR PLAN - LIGHTING - AREA B
E301 - PARTIAL PLANS
E801 - ELECTRICAL - MAINTENANCE BUILDING POWER PLAN
E804 - ELECTRICAL - MAINTENANCE BUILDING - PANEL SCHEDULES

END OF ADDENDUM FIVE

201111601_Addendum_05