



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

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February 21, 2012

ADDENDUM NUMBER FIVE

RFQ # 7449435

TITLE: RENOVATIONS TO THE ART CENTER AT RI COLLEGE

Closing Date and Time: 3/6/12 at 1:45 PM

**Per the issuance of this ADDENDUM # 5
(37 pages, including this cover sheet)**

Specification Change / Addition / Clarification

**ADDENDUM NUMBER 5
TO CONTRACT DOCUMENTS FOR**

**Art Center Renovation – Rhode Island College
600 Mount Pleasant Avenue
Providence, Rhode Island**

DESIGN PARTNERSHIP OF CAMBRIDGE
500 Rutherford Avenue
Charlestown, MA 02129

ADDENDUM DATE

2012 February 17

TO ALL BIDDERS:

This Addendum modifies, amends and supplements designated parts of the Contract Documents for the subject project, and is hereby made a part thereof by reference and shall be as binding as though inserted in its entirety in the locations and designated herein. It shall be the responsibility of each General Bidder to notify all Sub-Contractors and suppliers he proposes to use for the various parts of the work of any changes or modifications contained in this Addendum. No claim for additional compensation because of lack of knowledge of the contents of this Addendum will be considered. Except as the bid documents are modified by this and other numbered Addenda, no representation by the Architect or others may be taken as modifying the Contract Documents for the purpose of bidding.

The number of this and all other Addenda shall be acknowledged on the Proposal.

This Addendum, Number 5 consists of:

Changes to the Project Manual & Written Changes to the Drawings

Changes to the Project Manual:	ADDENDUM #5-2 through #5-4
Architectural Written Changes to the Drawings:	ADDENDUM #5-4
HVAC Written Changes to the Drawings:	ADDENDUM #5-4
Plumbing Written Changes to the Drawings:	ADDENDUM #5-4
Electrical Written Changes to the Drawings:	ADDENDUM #5-5 through #5-9

Substitution Requests:

ADDENDUM #5-9

Sketch Changes / Additions to the Drawings:

Plumbing:	SKA-P-014 through SKA-E-017
Electrical:	SKA-E-000 through SKA-E-022

CHANGES TO THE PROJECT MANUAL:

01 2300 ALTERNATES

ITEM 1: At Page 01 2300 – 2, revise Paragraph 3.1 to read as follows:

“PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES – Bid Alternates are prioritized as follows:

- #1 Alternate No. 1: Heavy Metal Waste Collection.
 - 1. Base Bid: Provide heavy metal waste collection at each remote location indicated on the Drawings and as specified in Section 11 2700 “Photographic Processing Equipment”.
 - 2. Alternate: Provide a dedicated system for collecting heavy metals waste including piping and a central containment station, as specified in Section 22 0000 “Plumbing”, instead of collection at each remote location.
 - a. Add \$_____

- #2 Alternate No. 2: ATC System.
 - 1. Base Bid: Provide automatic temperature controls indicated on the Drawings and specified in Section 25 0000 “Building Automation System.”
 - 2. Alternate: Use only a Siemens automatic temperature control system.
 - a. Add \$_____

- #3 Alternate No. 3: Projection Screens.
 - 1. Base Bid: Provide manual projection screens in studios and classrooms indicated on Drawings and specified in Section 11 5213 “Projection Screens. Only Lecture Hall Rm. 138 will have a motorized projection screen with controls as part of the Base Bid.
 - 2. Alternate: Add motorized projection screen units with controls in studios and classrooms instead of manual units. Include electrical power and controls to all locations to projection screens as part of the Alternate.”
 - a. Add \$_____

- #4 Alternate No. 4: Cover Board.
 - 1. Base Bid: Include the ½ inch cover board under the entire new roof membrane indicated on the Drawings and as specified in Section 07 5419 “Polyvinyl-Chloride (PVC) Roofing.”
 - 2. Alternate: Delete the 1/2 inch cover board under the new roof membrane at Roof System A areas only as indicated on the Drawings and as specified in Section 07 5419 “Polyvinyl-Chloride (PVC) Roofing.”
 - a. Deduct \$_____”

END OF SECTION”

10 1423 PANEL SIGNAGE

ITEM 1: At Page 10 1423 – 3, revise Paragraph 2.2A to read as follows:

“2.2 SIGNS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide Etched Zinc by Advance Corporation; Braille-Tac Division, or a comparable product by one of the following or equal:
 - 1. Dixie Graphics.
 - 2. Etchcraft, Inc.
 - 3. ASI Sign Systems, Inc.
 - 4. Impact Architectural Signs.
 - 5. ID3 Architectural Signage.

ITEM 2: At Page 10 1423 – 3, revise Paragraph 2.2B to read as follows:

“1. “Zinc Sheet: 0.125 inch thick.”

ITEM 3: At Page 10 1423 – 3, revise Paragraph 2.2C to read as follows:

“1. “Zinc Sheet: 0.125 inch thick.”

22 0000 - PLUMBING

ITEM 1: Page 22 0000-12, at end of fixture list add the following,

“Outlets – Natural Gas and Compressed Air

- G1 Gas Outlet – Deck (With integral check valve)
Chicago No. 980-909CAGP-E7TC single gas outlet
Chicago No. 981-909CAGP-E7TC double gas outlet.
- G2 Gas Outlet - Wall (With integral check valve)
Chicago No. 909-CAGCP-E7TC single gas outlet
Chicago No. 987-909CAGCP-E7TC double gas outlet.
- A-1 Compressed Air Outlet – Deck
Chicago No. 980 WS -937CHAG VCP single compressed air outlet.
Chicago No. 982-937CHAG VCP double compressed air outlet.
- A-2 Compressed Air Outlet – Wall
Chicago No. 986-937CHAG VCP single compressed air outlet.
Chicago No. 987-937CHAG VCP double compressed air outlet.”

26 0000 Electrical

- ITEM 1:** Modify this section to incorporate the attached Rhode Island College Telecommunication Cabling Standards.
- ITEM 2:** The contractor shall pay particular attention to the commissioning requirements in 01 9113 General Commissioning Requirements.
- ITEM 3:** Add 1.06 N Medium Voltage Distribution: The contractor should note that the campus medium voltage distribution service contractor is Pajan Services, Inc phone number (401) 935 6919 and is encouraged to contract with Pajan to provide the medium voltage distribution work indicated on this project.
- ITEM 4:** Add 2.05 I Pole Mounted Cutouts: Provide ABB Series expulsion dropout fuse (cutouts). Provide 3 cutouts with cross bar and 450 amp expulsion fuses on the pole identified on E0.01 Electrical Site Plan.
- ITEM 5:** Add 2.15 N Panelboard with integrated lighting relay control: For Panels ELP-1, ELP-2, and ELP-3 provide a panelboard with integrated relay switching equal to Crestron Green Light Power Switching GLPS series panels. Panels shall consist of thermal magnetic branch circuit breakers for conductor protection and programmable 120/277V, 16amp relays for individual control of lighting circuits. Refer to panel schedules for number of circuits in each panel. Provide number of relays equal to the number of circuits. The assembly shall be integrated into a single NEMA 1 enclosure and shall be assembled and manufactured by single manufacturer. Each panel shall have an integrated controller allowing for programmable time schedules using an astronomical time clock to individually control relays. The controller shall also allow for remote control with a keypad or other field devices such as low voltage switches, occupancy sensors or photo cells. Controllers shall be field programmable without the need for a external computer through keystroke entrees at the panel.
- ITEM 6:** Delete 2.18.B Power output ratings. Refer to the Electrical Power Riser Diagram for ratings of generator
- ITEM 7:** Modify 2.18.C and replace “Natural Gas” with “Diesel”. The generator shall be diesel fueled.
- ITEM 8:** Modify 2.18.G.1 and replace “Natural Gas” with “Diesel”. The generator shall be diesel fueled.
- ITEM 9:** Add 2.18.Q Base Mounted Fuel Oil Tank:

- Q. Factory installed and piped, complying with UL 142 fuel oil tank. Features include the following:
1. Tank level indicator.
 2. Capacity: Fuel for 24 hours' continuous operation at 100 percent rated power output.
 3. Vandal-resistant fill cap.
 4. Containment Provisions: Comply with requirements of authorities having jurisdiction.

ITEM 10: Modify 2.19.B Ratings to delete "250A, 3 pole, 480V" . Refer to the Electrical Power Riser Diagram for ratings of automatic transfer switches.

ITEM 11: Delete 2.22.C

CHANGES TO THE DRAWINGS:

ARCHITECTURAL

D0.1 DEMO NOTES & SALVAGE SCHEDULE

ITEM 1: At Demolition Legend, at note "SALV-#", change text to correctly read :
"SALVAGED ITEM. MOVED, STORED, RELOCATED **& REINSTALLED** BY G.C.
REFER TO SALVAGE SCHEDULE ON THIS SHEET."

A14.1 SIGNAGE PLAN & SCHEDULE

ITEM 1: At sign type "L", change horizontal dimension that reads 2'-0" to correctly read 3'-0". Also change vertical dimension that reads 1'-6" to correctly read 2'-0".

HVAC

H2.1

ITEM 1: At Gas Kiln Room 108H, change note that reads "BAILEY SOURCE CAPTURE RESIDUAL FUME HOOD" to correctly read "BAILEY SOURCE CAPTURE RESIDUAL FUME HOOD, OWNER-FURNISHED, INSTALLED BY HVAC CONTRACTOR."

PLUMBING

ITEM 1: SKA- P-014 Revision to Drawing P2.1.

ITEM 2: SKA-P-015 Revision to Drawing P2.1.

ITEM 3: SKA-P-016 Revision to Drawing P2.1.

ITEM 4: SKA-P-017 Revision to Drawing P2.1.

ELECTRICAL

E0.00 DRAWING ELECTRICAL LEGEND & GENERAL NOTES

ITEM 1: LIGHTING FIXTURE SCHEDULE change catalog numbers for the following fixture types and change lamp types from 54T5HO to 28T5 or 21T5 as noted;

FIXTURE TYPE	CATALOG NUMBER	LAMP TYPE
F	ES3255DP-1-T5-8-W-UNV-DM	28T5-4100K
F1	ES3255DP-1-T5-8-W-UNV-DM	28T5-4100K
F2	ES3255DP-1-T5-8-W-UNV-DM	28T5-4100K
F3	ES3255DP-1-T5-8-W-UNV-DM	28T5-4100K
G	ES225-R-D-FL(TRIM)-1T5-4-P12-WHT-UNV	28T5-4100K
G1	ES225-R-D-FL(TRIM)-1T5-4-P12-WHT-UNV-EM	28T5-4100K
J	NO CHANGE	28T5-4100K
K	PMC-3094-D-FL/T(SEE NOTE)-1-T5-8-WHT-UNV	28T5-4100K
KK	PMC-3094-D-FL/T(SEE NOTE)-1-T5-8-WHT-UNV	28T5-4100K
K1	PMC-3094-D-FL/T(SEE NOTE)-1-T5-4-WHT-UNV	28T5-4100K
K2	PMC-3094-D-FL(TSEE NOTE)-1-T5-3-WHT-UNV	28T5-4100K
M	NO CHANGE	28T5-4100K
T	NO CHANGE	28T5-4100K
AA	NO CHANGE	28T5-4100K
BB	NO CHANGE	28T5-4100K
AA1	NO CHANGE	28T5-4100K
BB1	NO CHANGE	28T5-4100K

ITEM 2: LIGHTING FIXTURE SCHEDULE; Fixture type “Y” add to catalog luminaire number the pole catalog number “RAS4-T2-T300-BK” for a 12”0” high 4” round black pole.

ITEM 3: Added fixture type “CC” to FIXTURE SCHEDULE. Fixture type “CC” shall be as manufactured by “Simkar”, Catalog number 380T5(28)-2-4-UNV, 2-28T5, 4000K lamps, 277V, and explosion proof.

E0.01 DRAWING ELECTRICAL SITE PLAN

ITEM 1: Change exterior lighting circuit number from LPSP1-2 to LSP1-2.

E0.02 DRAWING ELECTRICAL SITE DETAILS

ITEM 1: Add dimensions to Detail #2 “PAD MOUNTED GENERATOR” of 157” long by 55” wide.

E1.00 DRAWING ELECTRICAL BASEMENT LIGHTING PLAM

ITEM 1: Change Panelboard and circuit designation for exterior light fixture types “S” from ELP2-23 to ES4G-25.

E1.01 DRAWING ELECTRICAL FIRST FLOOR LIGHTING PLAM

ITEM 1: Room #117 and #121 add two dimmer switches for over head track lighting.

ITEM 2: Change Panelboard and circuit designation for exterior light fixture types “V” and “L” from ELP2-23 to ES4G-25.

ITEM 3: In Vestibule #142 install 2 switch for building lighting control of “Crestron” panelboards ELP1 and ELP2.

ITEM 4: Room 105D install two three-way switches, one at each door and an “OS” (occupancy sensor switch) at the ceiling in the center of room.

ITEM 5: Room 105G at and “OS” at the ceiling in the center of the room.

ITEM 6: Room 105J change Sos to a S and add an “OS” at the ceiling in the center of the room.

- ITEM 7:** Corridor 108E add a "S3d" on wall at column lines "XF" and "18.3" for control of corridor lighting and add another "S3d" at entrance door to room 108 for same lighting.
- ITEM 8:** Room 108G change "S" to an "Sos" weatherproof type.
- ITEM 9:** Room 108H change "S" to an "Sos" weatherproof type.

E1.02 DRAWING ELECTRICAL SECOND FLOOR LIGHTING PLAN

- ITEM 1:** Room 204 move occupancy sensor and rewire to control switch legs "a" and "b" only
- ITEM 2:** Room 204 add an occupancy sensor and wire to control switch legs "c" and "d" only.
- ITEM 3:** Room 204 change row of lighting to be controlled by switch legs "c" and "d" to be controlled by switch legs "a" and "b"
- ITEM 4:** Room 201 delete 2 switches that control switch legs "e" and "f".
- ITEM 5:** Room 201 add switch legs and circuit numbers to unistrut mounted receptacles such that every other receptacle is on circuit 36 switch leg "b" or circuit 38 switch leg "a".
- ITEM 6:** Room 203 add switch legs and circuit numbers to unistrut mounted receptacles such that every other receptacle is on circuit 44 switch leg "e" or circuit 46 switch leg "f".
- ITEM 7:** Room 201 wire exit sign to fixture type "A" at classroom entrance.
- ITEM 8:** Room 201 wire lighting fixture circuit to wall mounted dimmer switch
- ITEM 9:** Room 202 Change lighting fixture type from "U" to type "CC".
- ITEM 10:** All exterior building lighting circuits shall be changed from ELP2-23 to ES4G-25.
- ITEM 11:** Room 212 provide type "A1" fixtures, occupancy sensor and wall switches in addition to unistrut hung type "Z" fixtures. See SKA-E-016.
- ITEM 12:** At Stair #2 entrance install 1 switch for building lighting control of "Crestron" panelboard ELP3.
- ITEM 13:** At Stair #1 entrance install 1 switch for building lighting control of "Crestron" panelboard ELP3

E2.00 DRAWING ELECTRICAL BASEMENT POWER PLAN

- ITEM 1:** Add wiring for plumbing equipment. See sketch SKA-E-000.
- ITEM 2:** Add weatherproof receptacle to airway near column line 12-B at 48" AFF and wire to P2G1 circuit breaker # 9.

E2.01 DRAWING ELECTRICAL FIRST FLOOR POWER PLAN

- ITEM 1:** .Change all projector screen dimensions from 14'-0" to 14'-0" from screen location.
- ITEM 2:** Added Saw Dust Collector in Wood Shop see sketch SKA-E-005
- ITEM 3:** Add wiring homerun to corridor nightlight (NL) fixture outside room number 135 to panelboard ELP1 circuit breaker 25.
- ITEM 4:** Add wiring homerun to corridor normal fixture outside room number 135 to panelboard ELP1 circuit breaker 8.

- ITEM 5:** Add wiring homerun to corridor nightlight (NL) fixture outside room number 135 to panelboard ELP1 circuit breaker 25.
- ITEM 6:** Add wiring homerun to corridor nightlight (NL) fixture outside room number 135 to panelboard ELP1 circuit breaker 25.
- ITEM 7:** For the "DARK ROOM IN USE" lights located over the doors to rooms 134C and 134I add a switch for each just inside door and label "DARK ROOM IN USE". Also for the "DARK ROOM IN USE" light located over the entrance door to the maze in room 134G add the switch for this sign within room 134H at the opposite entrance to the maze within that room and also label "DARK ROOM IN USE".
- ITEM 8:** Add note to "SPRAY ROOM #109 to read; "ALL POWER WITHIN THIS AREA TO BE INSTALLED WITH EXPLOSION PROOF FITTINGS & add two dimmer switches for over head track lighting.
- ITEM 9:** In Mechanical Enclosure area the emergency generator shall be no closer than 3'-0" to any wall or other piece of equipment to maintain working clearances.
- ITEM 10:** As a "BID ALTERNATE" provisions shall be provided at each projector screen for connections to power screens, with 3/4" conduit from designated panelboard to a junction box located up at the screen motor connection and 3/4" conduit from junction box down to control switch mounted to the right of screen at 48" AFF and to the motor. The units will be fed with 2#12 and 1#12G 3/4" EMT to locations in the following rooms with designated panelboard and circuit numbers: Room#103 P212-43, 104 P212-45, 105E P212-47, 105J P212-49, 106 P212-51, 107 P212-53, 108 P212-55, 117 P212-57, 121 P212-5996, 134 P211-35, 134A P211-37, 135 P212-39, 136 P211-41, and 140 P211-43.
- ITEM 11:** Room #E103 at column line "A.6" and "18.3" add equipment connection for 'CM45". See SKA-E-021.
- ITEM 12:** Add "CM45" to Panelboard "PCM" as shown on SKA-E-022.

E2.02 DRAWING ELECTRICAL SECOND FLOOR POWER PLAN

- ITEM 1:** Change projector screen dimensions from 14'-0" to 14'-0" from screen location.
- ITEM 2:** Added Spray Booth to "SPRAY BOOTH ROOM #202". See SKA-E-005.
- ITEM 3:** As a "BID ALTERNATE" provisions shall be provided at each projector screen for connections to power screens, with 3/4" conduit from designated panelboard to a junction box located up at the screen motor connection and 3/4" conduit from junction box down to control switch mounted to the right of screen at 48" AFF and to the motor. The units will be fed with 2#12 and 1#12G 3/4" EMT to locations in the following rooms with designated panelboard and circuit numbers: Room#201 P221-30, 203 P221-32, 206 P221-34, 207 P221-36, 208 P221-38, and 212 P221-40.

E2.03 DRAWING ELECTRICAL ROOF PLAN POWER PLAN

- ITEM 1:** EF-7 change horsepower from 1.5 to 3/4 horsepower.
- ITEM 2:** EF-7, from starter/disconnect switch run control wiring down to explosion proof pushbutton in room #202. Install extra contacts in starter for ON/OFF control.

E3.01 DRAWING ELECTRICAL FIRST FLOOR FIRE ALARM PLAN

- ITEM 1:** Elevator Machine Room Smoke Detector; refer to drawing E7.00 detail #11, note #10 pertains to this smoke detector.

E4.00 DRAWING ELECTRICAL POWER RISER DIAGRAM

- ITEM 1:** Power Riser Diagram change elevator #1 horsepower to 40hp and cable size that reads #9 to correctly read #13 and circuit breaker size that reads 100A to correctly read 125A. See SKA-E-001.
- ITEM 2:** Power Riser Diagram Dust Collector wired to circuit breaker #4 with combination motor starter/disconnect switch and conduit and cable as shown. See SKA-E-006.
- ITEM 3:** Power Riser Diagram: install time clock adjacent to panelboard "LSP1" for control of pole lighting on circuit #2.
- ITEM 4:** Power Riser Diagram: install time clock adjacent to panelboard "ES4G" for control of exterior building lighting on circuit #ES4G-25.
- ITEM 5:** Change Diesel Generator size from 100kW to 150kVA.

E4.01 DRAWING ELECTRICAL PANELBOARD SCHEDULES 1 OF 2

- ITEM 1:** Panelboard "P4G1" change circuit breaker numbers 13, 15, 17 from SPARE 20A-3P to AIR COMPRESSOR 35A-3P as indicated on sketch SKA-E-002
- ITEM 2:** Panelboard "P4G1" change circuit breaker numbers 14, 16, 18 from SPARE 20A-3P to AIR COMPRESSOR 35A-3P AS indicated on sketch SKA-E-002.
- ITEM 3:** Panelboard "P2G1" change circuit breaker #3, 5, 6, 7, 8, 9, and 10 from SPARES to connections as indicated on sketch SKA-E-003.
- ITEM 4:** Panelboard "P211"; Change circuit breaker #35, 37, 39 and 41 from SPARE 20A-1P to PROJECTOR SCREEN 20A, 1P with .2kW load. Increase the size of panelboard from 42 circuits to 84 circuits all 20A-1P. Circuit breaker #43 shall be labeled "PROJECTOR SCREEN, all others shall be labeled "SPARE".

E4.02 DRAWING ELECTRICAL PANELBOARD SCHEDULES 2 OF 2

- ITEM 1:** Panelboard "ES4G" change circuit breaker numbers 20, 22, 24 from SPARE 20A-1P to SEWAGE EJECTOR PUMP, 20A-3P circuit breaker and change circuit breakers 26, 28, 30 from SPARE 20A-1P to BOOSTER PUMP, 20A-3P circuit breaker and change circuit breaker #25 from spare to exterior lighting with time clock and photocell control on roof as shown on SKA-E-004.
- ITEM 2:** Panelboard ES2G change circuit breaker 16 from a SPARE to SPARK CONTROL PANEL. See sketch SKA-E-007.
- ITEM 3:** Panelboard "ELP1" change panelboard type to an 18 circuit with module switching control built into panelboard as shown in amended specification section 26 0000. See SKA-E-017
- ITEM 4:** Panelboard "ELP2" change panelboard type to an 18 circuit with module switching control built into panelboard as shown in amended specification section 26 0000. See SKA-E-018.
- ITEM 5:** Panelboard "ELP3" change panelboard type to an 18 circuit with module switching control built into panelboard as shown in amended specification section 26 0000. See SKA-E-019.

E6.00 DRAWING ELECTRICAL EQUIPMENT SCHEDULE

- ITEM 1:** Change schedule title from "Classroom Equipment Schedule" to "Equipment Schedule"
- ITEM 2:** Add equipment #CM45 to class room equipment schedule, see SKA-E-020.

E7.00 DRAWING ELECTRICAL DETAILS

ITEM 1: Modify the Communication Faceplate Details to incorporate the Rhode Island College Telecommunications standard (see changes to project manual). The half-filled triangle shall be a Type 2 outlet. Delete the requirements for the half-filled triangle with a "2" superscript. All other faceplate details shall remain and the Contractor shall refer to the Rhode Island College Telecommunications standards for additional outlet requirements.

E8.00 DRAWING ELECTRICAL SECURITY DOOR WIRING DIAGRAM

ITEM 1: Security door wiring detail: Single door security alarm as shown on SKA-E-008.

ITEM 2: Security door wiring detail: as shown on SKA-E-009.

ITEM 3: Security door wiring detail: as shown on SKA-E-010.

ITEM 4: Security door wiring detail: as shown on SKA-E-011.

ITEM 5: Security door wiring detail: as shown on SKA-E-012.

ITEM 6: Security door wiring detail: as shown on SKA-E-013.

ITEM 7: Security door wiring detail: as shown on SKA-E-014.

ITEM 8: Security door wiring detail: as shown on SKA-E-015.

SUBSTITUTION REQUESTS:

SECTION 07 2726 FLUID APPLIED MEMBRANE AIR BARRIERS

ITEM 1: **Product:** PROSOCO R GUARD MVP **Status:** "NOT Approved"

Submitted By: PROSOCO

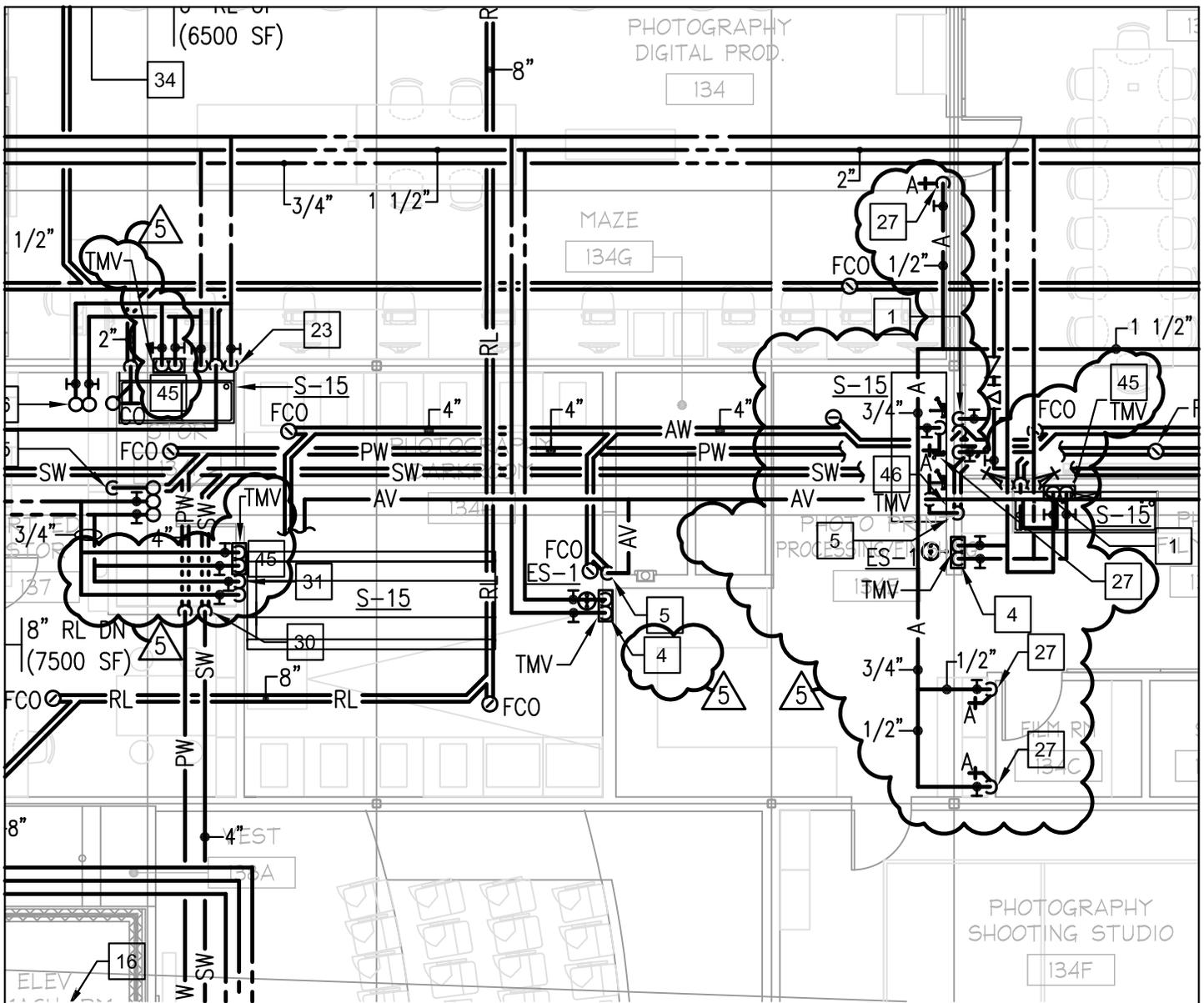
Notes: Submitted product does not demonstrate compliance with physical properties as specified in Section 07 2726 2.3.A.2.c (Ultimate Elongation ASTM - D412).

SECTION 12 4816 ENTRANCE FLOOR GRILLES

ITEM 1: **Product:** KDCP Aluminum Entrance Grid **Status:** "Approved"

Submitted By: KADEE Industries

Notes: N/A



45 1/2" HW & CW DROPS TO SUPPLY MIXING VALVE P.C. SHALL PROVIDE 1/2" TEMPERED WATER CONNECTION TO HAND HELD SAFETY EYE/FACE WASH ASSEMBLY AS REQUIRED. SAFETY EYE/FACE WASH ASSEMBLY EQUIPMENT SUPPLIED BY DARKROOM CONSULTANT.

46 1/2" HW & CW DROPS TO SUPPLY MIXING VALVE P.C. SHALL PROVIDE 1/2" TEMPERED WATER CONNECTION TO HAND HELD SAFETY EYE/FACE WASH ASSEMBLY AS REQUIRED. TMV NOT SHOWN FOR DRAWING CLARITY. SAFETY EYE/FACE WASH ASSEMBLY EQUIPMENT SUPPLIED BY DARKROOM CONSULTANT.

Designpartnership
OF CAMBRIDGE INC

ART CENTER RENOVATION R.I.C.
PROVIDENCE, R.I.

Scale: 1/8" = 1'-0"

Date: 02/16/2012

Dwn by: CG/DFR

Title: FIRST FLOOR PLUMBING

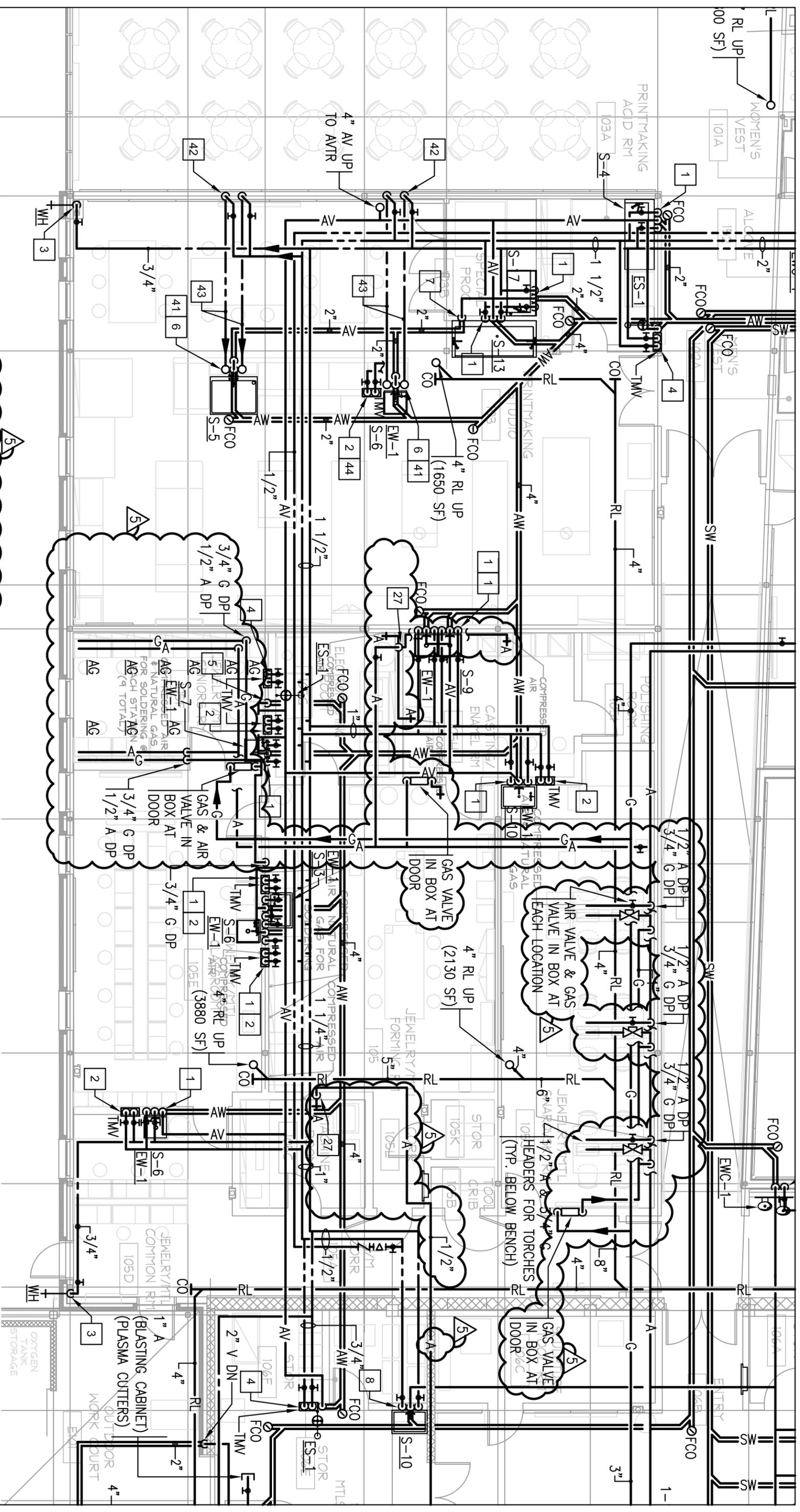
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ARCHITECTURE
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INTERIOR DESIGN

CLARIFICATION SKETCH

REVISION TO DRAWING P2.1

SKA-P-014



NOTE:
 REFER TO EQUIPMENT PLANS AND ARCHITECTURAL PLANS FOR FINAL LOCATION OF ALL GAS AND COMPRESSED AIR TERMINATION POINTS.

Design partnership
 OF CAMBRIDGE INC.

ART CENTER RENOVATION R.I.C.
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CLARIFICATION SKETCH

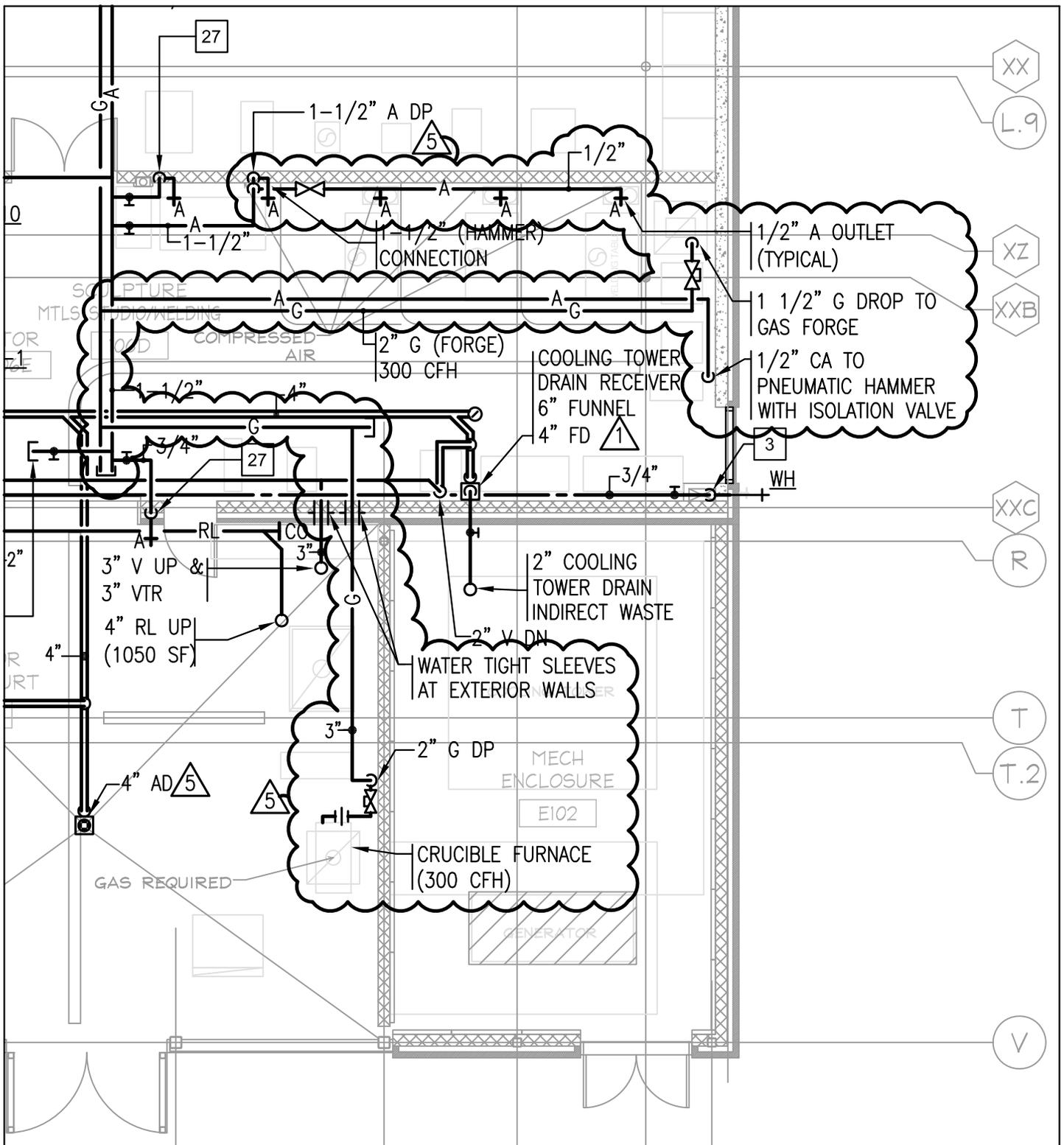
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Scale: 1/8" = 1'-0"
 Date: 02/16/2012
 Dwn by: CG/DFR
 Title: FIRST FLOOR PLUMBING

REVISION TO DRAWING P.2.1

SKA-P-015



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ART CENTER RENOVATION R.I.C.
PROVIDENCE, R.I.

Scale: 1/8" = 1'-0"

Date: 02/16/2012

Dwn by: CG/DFR

Title: FIRST FLOOR
PLUMBING

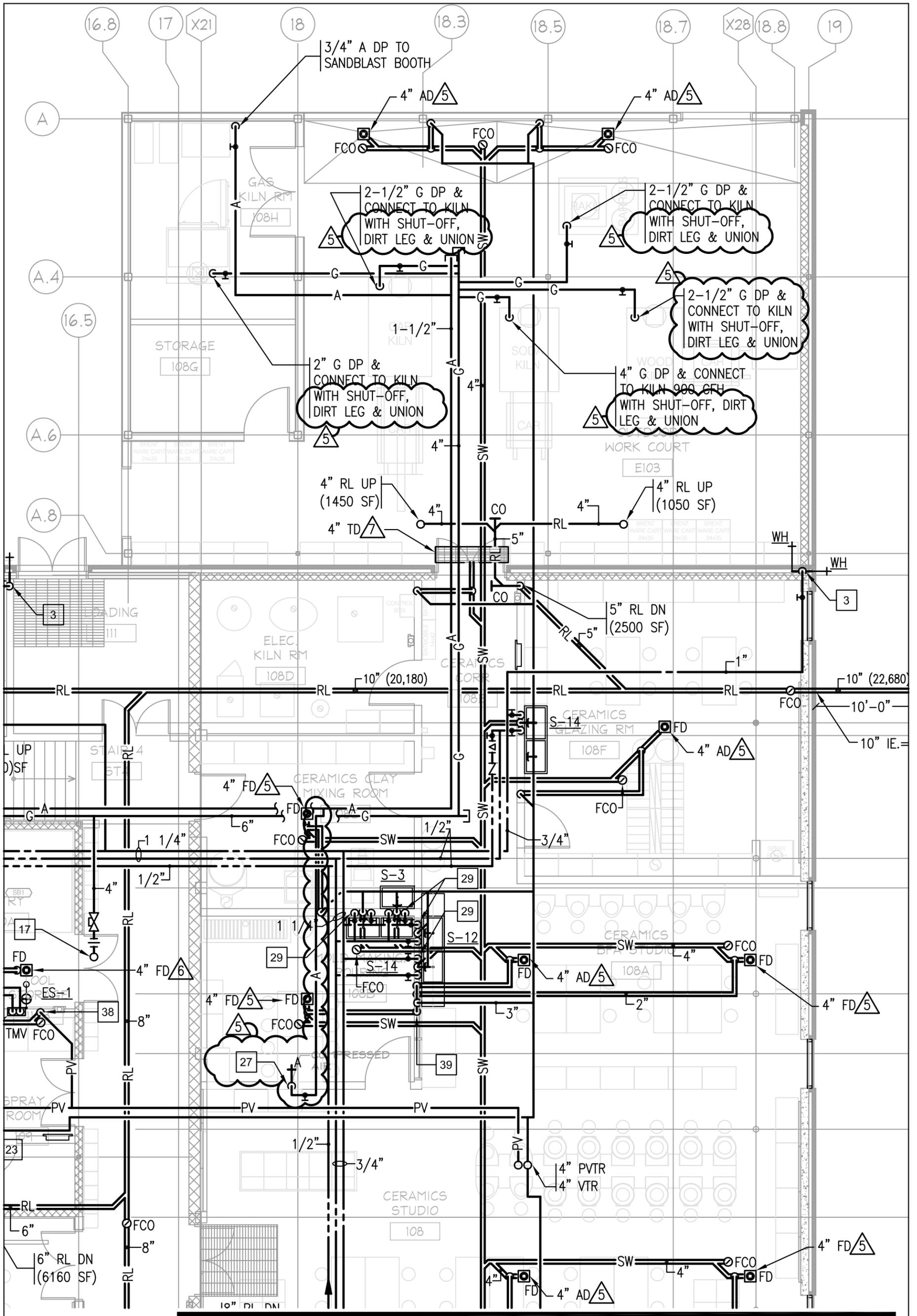
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CLARIFICATION SKETCH

REVISION TO DRAWING P2.1

SKA-P-016



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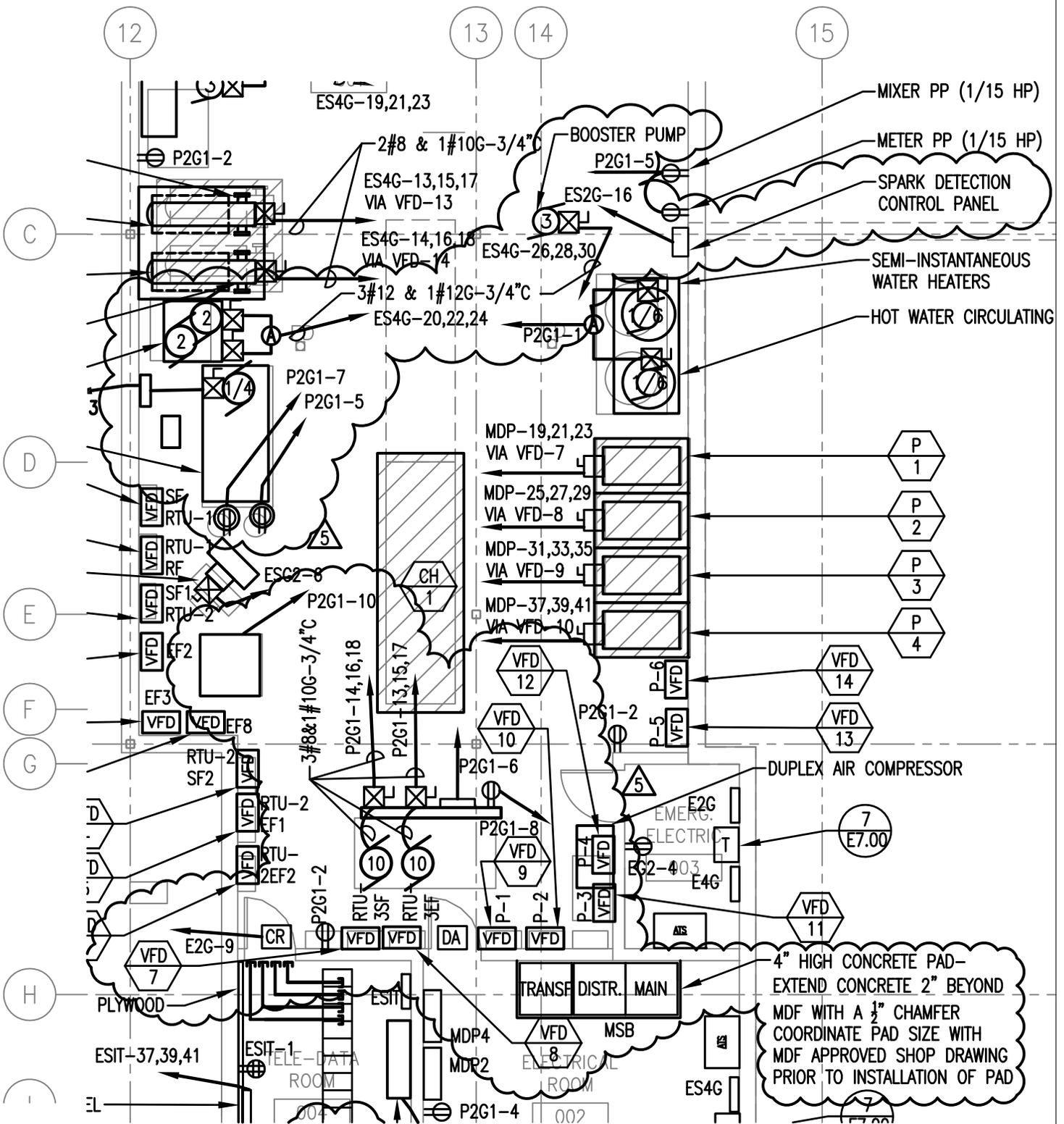
ARCHITECTURE
 PROGRAMMING
 MASTER PLANNING
 INTERIOR DESIGN

CLARIFICATION SKETCH

Scale: 1/8" = 1'-0"
 Date: 02/16/2012
 Dwn by: CG/DFR
 Title: FIRST FLOOR PLUMBING

REVISION TO DRAWING P2.1

SKA-P-017



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ART CENTER RENOVATION R.I.C.
PROVIDENCE, R.I.

Scale: 1/8" = 1'-0"
Date: 02/22/2012
Dwn by: AC
Title: ADDENDA #5
ITEM 1

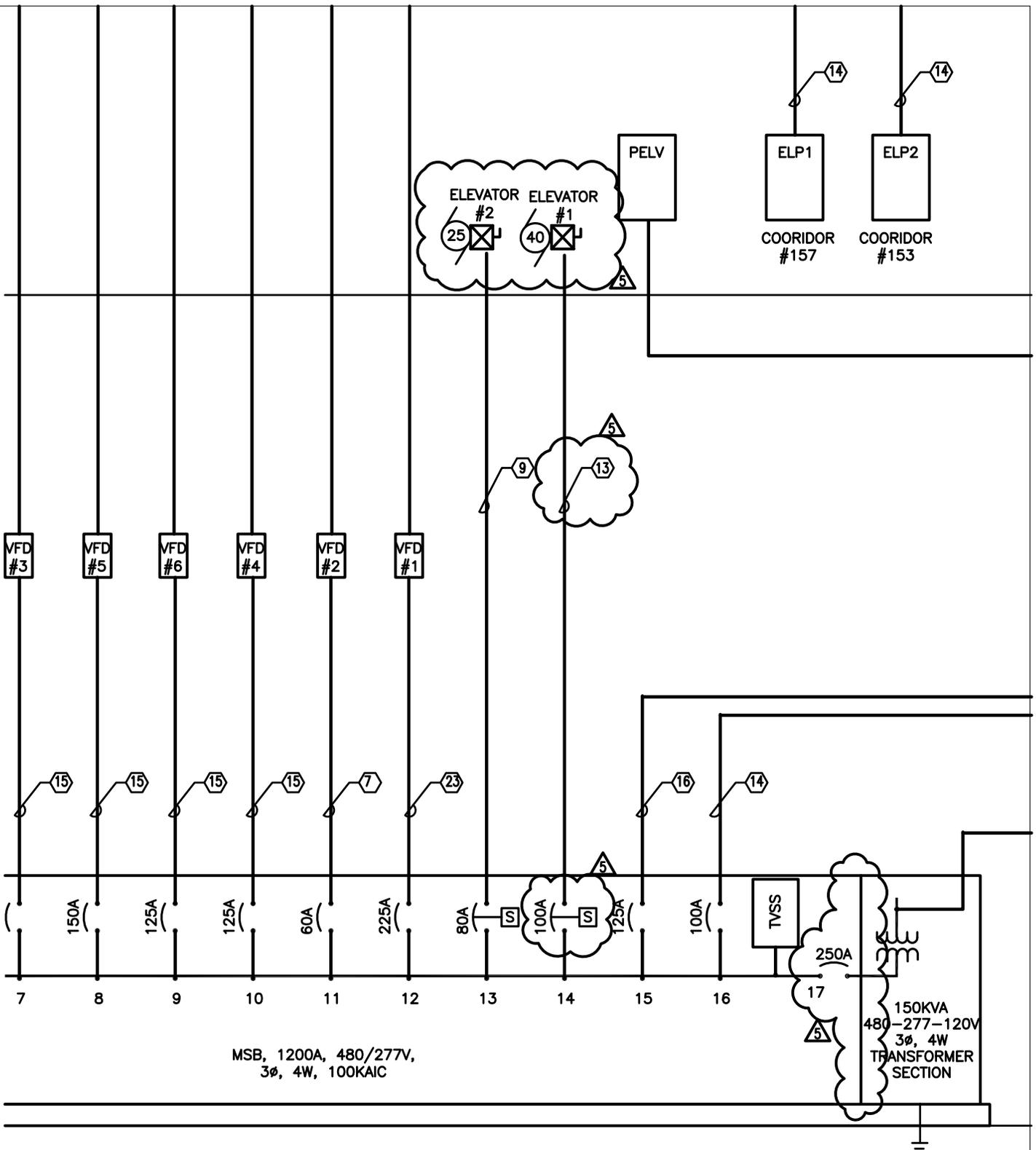
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CLARIFICATION SKETCH

REVISION TO DRAWING E-200

SKA-E-000



Designpartnership
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ART CENTER RENOVATION R.I.C.
PROVIDENCE, R.I.

Scale: NONE
Date: 02/22/2012
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Title: ADDENDA #5
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REVISION TO DRAWING E-400

SKA-E-001

PANEL BOARD SCHEDULE

PANEL# P4G1	<input type="checkbox"/> DOUBLE WIDTH	LOCATION RM 002 ELECTRICAL ROOM BSMT	MAINS BREAKER <u>100AMP</u> <u>3</u> POLE	ENCLOSURE NEMA <u>1</u>
SERVICE <u>277/480</u> VOLT <u>3</u> PHASE <u>4</u> WIRE			LUGS <u>7</u> AMP <u>3</u> POLE	<input type="checkbox"/> FLUSH MOUNTED
			<input checked="" type="checkbox"/> TOP	<input type="checkbox"/> BOTTOM
			<input checked="" type="checkbox"/> SURFACE MOUNTED	

CKT	FOR	BREAKER			KVA	CKT	FOR	BREAKER			KVA
		TRIP	POLES	VOLTS				TRIP	POLES	VOLTS	
1	LIGHTING	20	1	277	1.170	2					
3	SPARE	20	1	277		4	RTU-3 SUPPLY FAN (7.5HP)	20	3	480	9.16
5	SPARE	20	1	277		6					
7						8					
9	EF-7 (1.5HP)	15	3	480	2.83	10	RTU-3 EXHAUST FAN (7.5HP)	15	3	480	6.32
11						12					
13	AIR COMPRESSOR (10HP)	35	3	480	11.64	14	AIR COMPRESSOR (10HP)	35	3	480	11.64
15						16					
17						18					
19						20					
21	EF-5 (2HP)	15	3	480	2.83	22	EF-2 (3HP)	20	3	480	3.99
23					24						
25						26	EF-3 (2HP)	15	3	480	2.83
27	EF-9 (1/2 HP)	15	3	480	.914	28					
29						30					
31						32					
33	SPARE	20	3	480	-	34	EF-4 (2HP)	15	3	480	2.83
35						36					
37	SPARE	20	1	277		38	EF-6 (2HP)	15	3	480	2.83
39	SPARE	20	1	277		40					
41	SPARE	20	1	277		42					
TOTAL KVA - LEFT SIDE					7.404	TOTAL KVA - RIGHT SIDE					23.46

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Dwn by: AC
Title: ADDENDA #5
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CLARIFICATION SKETCH

REVISION TO DRAWING E-401

SKA-E-002

PANEL BOARD SCHEDULE

PANEL# P2G1	<input type="checkbox"/> DOUBLE WIDTH	LOCATION RM 002 ELECTRICAL ROOM BSMT	MAINS BREAKER <u>100</u> AMP <u>3</u> POLE	ENCLOSURE NEMA <u>1</u>
SERVICE <u>120/208</u> VOLT <u>3</u> PHASE <u>4</u> WIRE			LUGS <u> </u> AMP <u> </u> POLE	<input type="checkbox"/> FLUSH MOUNTED
			<input checked="" type="checkbox"/> TOP	<input type="checkbox"/> BOTTOM
			<input checked="" type="checkbox"/> SURFACE MOUNTED	

CKT	FOR	BREAKER			KVA	CKT	FOR	BREAKER			KVA
		TRIP	POLES	VOLTS				TRIP	POLES	VOLTS	
1	HOT WTR CIRC RP	20	1	120	.400	2	RECEPTACLES	20	1	120	.72
3	ACID CNTR PNL	20	1	120	.200	4	RECEPTACLES	20	1	120	.360
5	ACID REAGENT	20	1	120	.200	6	AIR CNTR PNL	20	1	120	.200
7	ALKALINE REAGENT	20	1	120	.20	8	AIR DRYERS	20	1	120	1.0
9	EXTERIOR RECEPT	20	1	120	.180	10	SEDIMENT CONTR	20	1	120	.20
11	SPARE	20	1	120	-	12	SPARE	20	1	120	-
13	SPARE	20	1	120	-	14	SPARE	20	1	120	-
15	SPARE	20	1	120	-	16	SPARE	20	1	120	-
17	SPARE	20	1	120	-	18	SPARE	20	1	120	-
19	SPARE	20	1	120	-	20	SPARE	20	1	120	-
21	SPARE	20	1	120	-	22	SPARE	20	1	120	-
23	SPARE	20	1	120	-	24	SPARE	20	1	120	-
25	SPARE	20	1	120	-	26	SPARE	20	1	120	-
27	SPARE	20	1	120	-	28	SPARE	20	1	120	-
29	SPARE	20	1	120	-	30	SPARE	20	1	120	-
31	SPARE	20	1	120	-	32	SPARE	20	1	120	-
33	SPARE	20	1	120	-	34	SPARE	20	1	120	-
35	SPARE	20	1	120	-	36	SPARE	20	1	120	-
37	SPARE	20	1	120	-	38	SPARE	20	1	120	-
39	SPARE	20	1	120	-	40	SPARE	20	1	120	-
41	SPARE	20	1	120	-	42	SPARE	20	1	120	-
TOTAL KVA - LEFT SIDE					--	TOTAL KVA - RIGHT SIDE					-

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Scale: NONE
Date: 02/22/2012
Dwn by: AC
Title: ADDENDA #5
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CLARIFICATION SKETCH

REVISION TO DRAWING E-401

SKA-E-003

PANEL BOARD SCHEDULE

PANEL# ES4G (STAND <input type="checkbox"/> DOUBLE BY WIDTH)						LOCATION RM 002 BASEMENT						MAINS BREAKER 100AMP 3 POLE						ENCLOSURE NEMA 1					
SERVICE 277/480 VOLT 3 PHASE 4 WIRE						LUGS AMP POLE						<input type="checkbox"/> FLUSH MOUNTED <input checked="" type="checkbox"/> TOP <input type="checkbox"/> BOTTOM <input checked="" type="checkbox"/> SURFACE MOUNTED											
CKT	FOR	BREAKER			KVA	CKT	FOR	BREAKER			KVA												
		TRIP	POLES	VOLTS				TRIP	POLES	VOLTS													
1	ES2G TRANSFORMER	20	3	480	14.67	2	LIGHTING	20	1	277	.834												
3						4	SPARE	20	1	277	-												
5						6	SPARE	20	1	277													
7	EF-1 (2HP)	15	3	480	2.83	8	EF-8 (2HP)	15	3	480	2.83												
9						10																	
11						12																	
13	P-5 (15HP)	50	3	480	17.46	14	P-6 (15HP)	50	3	480	17.46												
15						16																	
17						18																	
19	CP-1 (2 @ 3HP)	50	3	480	3.99	20	SEWAGE EJECTOR PUMP (2HP)	20	3	480	-												
21						22																	
23						24																	
25	EXTERIOR LTG	20	1	277	1.208	26	BOOSTER PP (3HP)	20	3	480	3.99												
27	SPARE	20	1	277	-	28																	
29	SPARE	20	1	277	-	30																	
31	SPARE	20	1	277	-	32	SPARE	20	1	277	-												
33	SPARE	20	1	277	-	34	SPARE	20	1	277	-												
35	SPARE	20	1	277	-	36	SPARE	20	1	277	-												
37	SPARE	20	1	277	-	38	SPARE	20	1	277	-												
39	SPARE	20	1	277	-	40	SPARE	20	1	277	-												
41	SPARE	20	1	277	-	42	SPARE	20	1	277	-												
TOTAL KVA - LEFT SIDE						34.96	TOTAL KVA - RIGHT SIDE						22.28										

* TIME CLOCK CONTROL WITH PHOTOCELL CONTROL ON ROOF 5

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Scale: NONE
Date: 02/22/2012
Dwn by: AC
Title: ADDENDA #5
ITEM 1

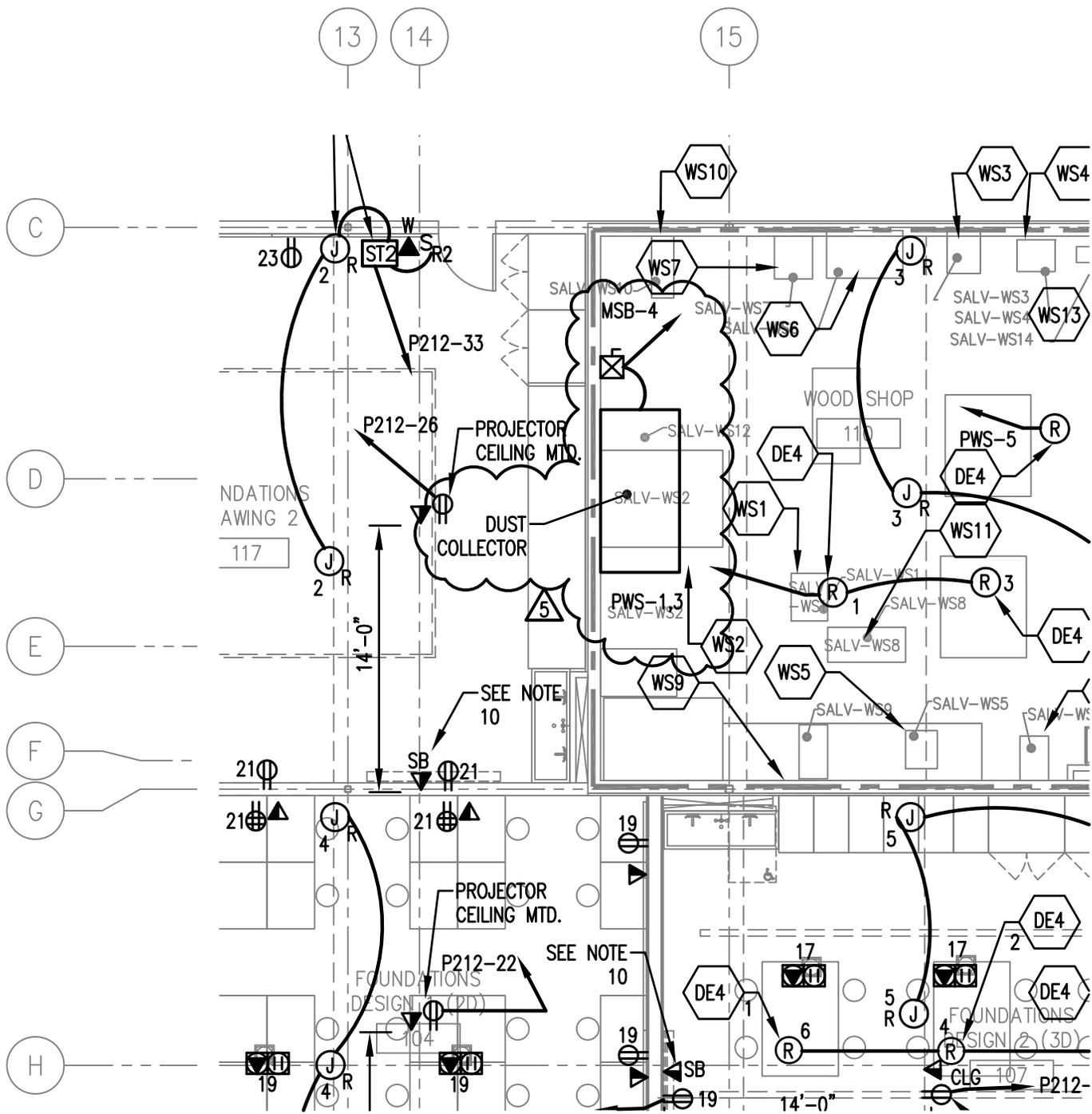
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CLARIFICATION SKETCH

REVISION TO DRAWING E-402

SKA-E-004



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Scale: 1/8" = 1'-0"
Date: 02/22/2012
Dwn by: AC
Title: ADDENDA #5
ITEM 2

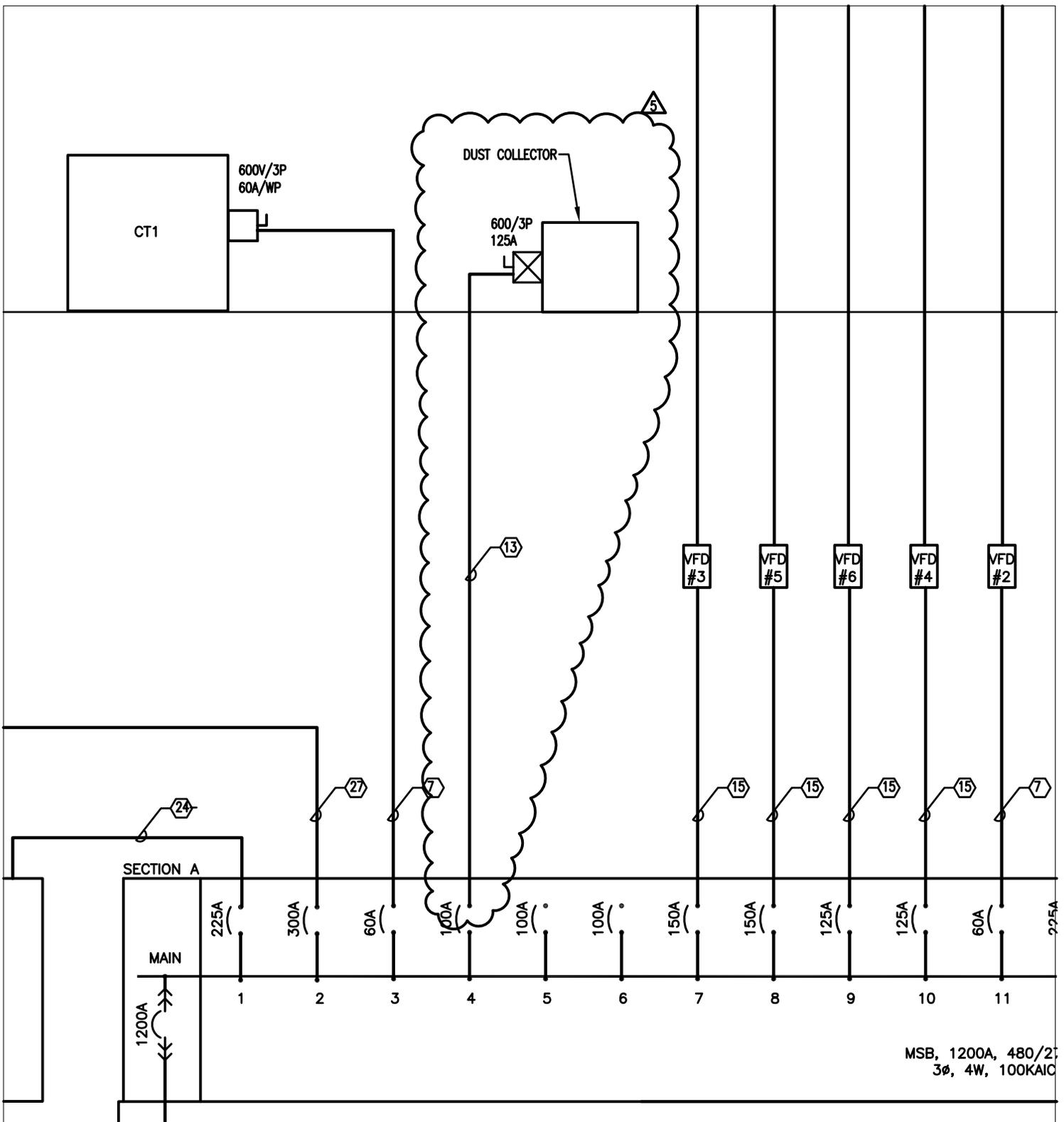
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REVISION TO DRAWING E-201

SKA-E-005



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Scale: NONE
Date: 02/22/2012
Dwn by: AC
Title: ADDENDA #5
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CLARIFICATION SKETCH

REVISION TO DRAWING E-400

SKA-E-006

PANEL BOARD SCHEDULE

PANEL# ES2G (STAND BY)	<input type="checkbox"/> DOUBLE WIDTH	LOCATION 002 BASEMENT	MAINS BREAKER 100 AMP 3 POLE LUGS — AMP — POLE <input checked="" type="checkbox"/> TOP <input type="checkbox"/> BOTTOM	ENCLOSURE NEMA 1 <input type="checkbox"/> FLUSH MOUNTED <input checked="" type="checkbox"/> SURFACE MOUNTED
SERVICE 120/208 VOLT 3 PHASE 4 WIRE				

CKT	FOR	BREAKER			KVA	CKT	FOR	BREAKER			KVA		
		TRIP	POLES	VOLTS				TRIP	POLES	VOLTS			
1	CAMERS	20	1	120	1.0	2	ATC PANEL	30	1	120	2.0		
3	CAMERS	20	1	120	1.0	4	RECEPTACLES	20	1	120	.360		
5	DOOR CONTROL	20	1	120	1.0	6	UH-1	20	1	120	.016		
7	SPARE	20	1	120	—	8	PELV	50	3	208	4.958		
9	AC1	15	2	208	.158	10							
11						12							
13	ACCU-1	20	2	208	3.54	14	CHU1 UH1, CHU-2 (3)			20	1	120	576
15						16	SPARK CONTROL PNL	20	1	120	.200		
17	SPARE	20	1	120	—	18	SPARE	20	1	120	—		
19	SPARE	20	1	120	—	20	SPARE	20	1	120	—		
21	SPARE	20	1	120	—	22	SPARE	20	1	120	—		
23	SPARE	20	1	120	—	24	SPARE	20	1	120	—		
25	SPARE	20	1	120	—	26	SPARE	20	1	120	—		
27	SPARE	20	1	120	—	28	SPARE	20	1	120	—		
29	SPARE	20	1	120	—	30	SPARE	20	1	120	—		
31	SPARE	20	1	120	—	32	SPARE	20	1	120	—		
33	SPARE	20	1	120	—	34	SPARE	20	1	120	—		
35	SPARE	20	1	120	—	36	SPARE	20	1	120	—		
37	SPARE	20	1	120	—	38	SPARE	20	1	120	—		
39	SPARE	20	1	120	—	40	SPARE	20	1	120	—		
41	SPARE	20	1	120	—	42	SPARE	20	1	120	—		
TOTAL KVA — LEFT SIDE					7.69	TOTAL KVA — RIGHT SIDE					6.97		

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Scale: NONE
Date: 02/22/2012
Dwn by: AC
Title: ADDENDA #5
 ITEM 2

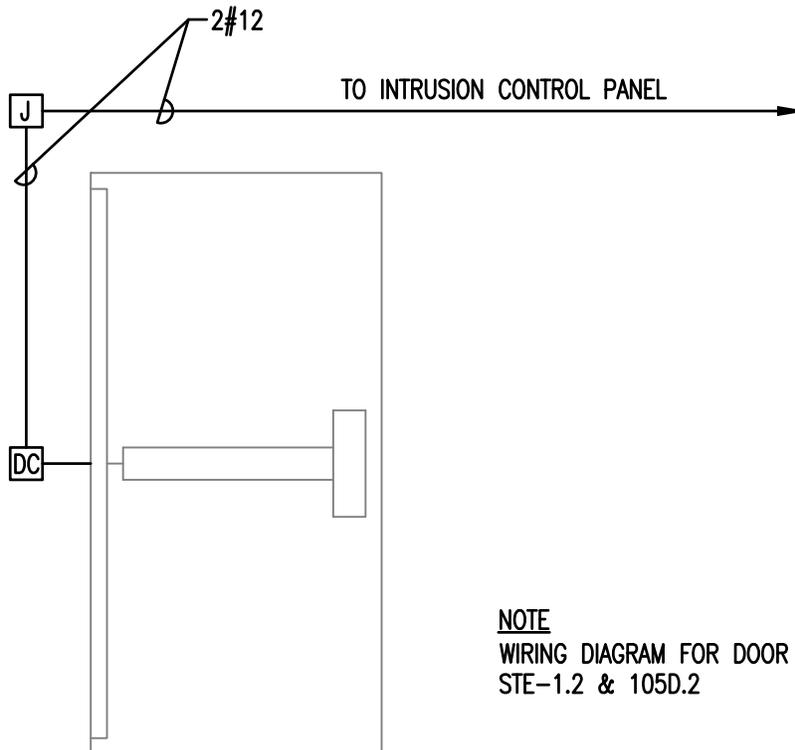
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CLARIFICATION SKETCH

REVISION TO DRAWING E-402

SKA-E-007



NOTE
 WIRING DIAGRAM FOR DOOR #E101.2
 STE-1.2 & 105D.2

⑥ SINGLE DOOR INTRUSION ALARM
 NTS

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Scale: NONE
Date: 02/22/2012
Dwn by: AC
Title: **ADDENDA #5**
ITEM 1

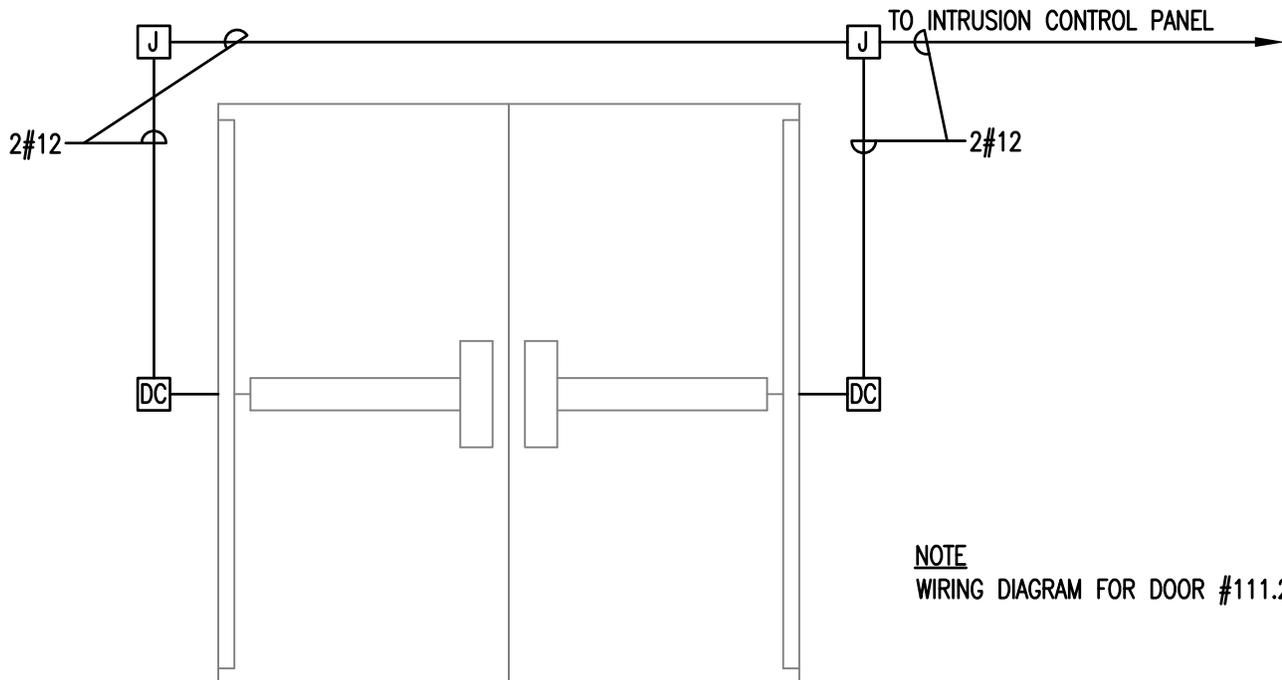
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REVISION TO DRAWING E-800

SKA-E-008



⑦ DOUBLE DOOR INTRUSION ALARM
NTS

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Scale: NONE
Date: 02/22/2012
Dwn by: AC
Title: **ADDENDA #5**
ITEM 2

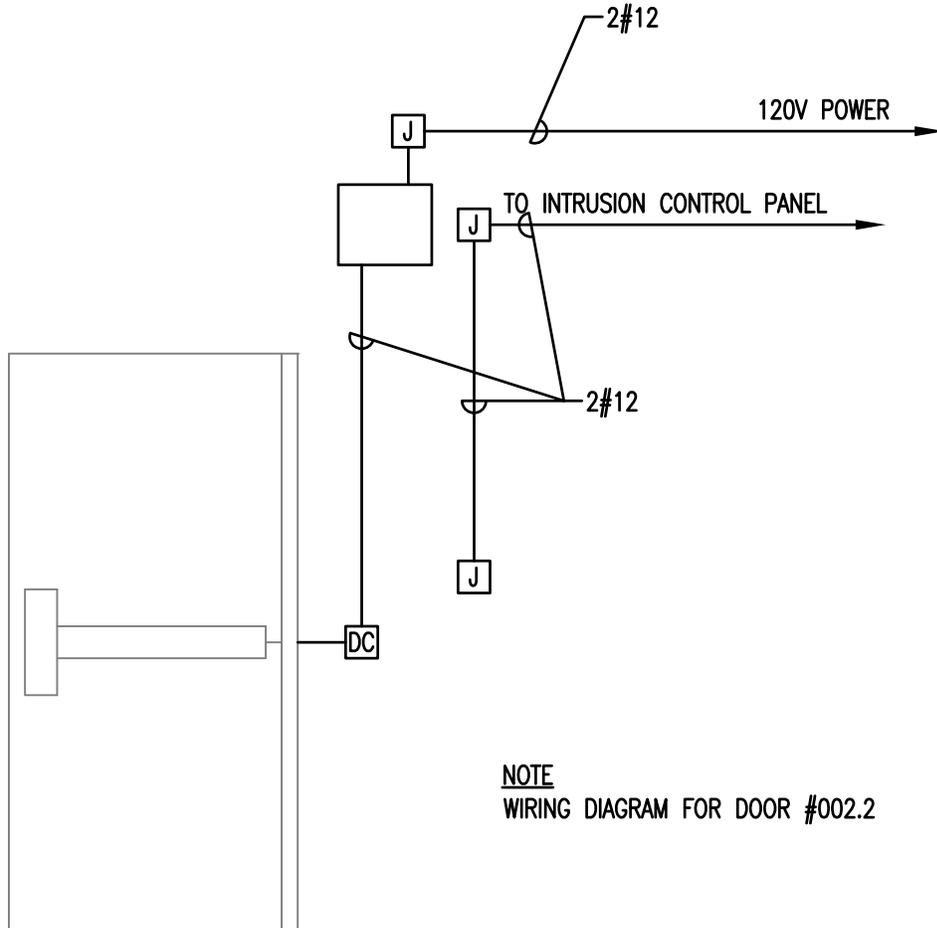
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REVISION TO DRAWING E-800

SKA-E-009



NOTE
WIRING DIAGRAM FOR DOOR #002.2

③ EMERGENCY EGRESS/INTRUSION ALARM
NTS

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Scale: NONE
Date: 02/22/2012
Dwn by: AC
Title: **ADDENDA #5**
ITEM 3

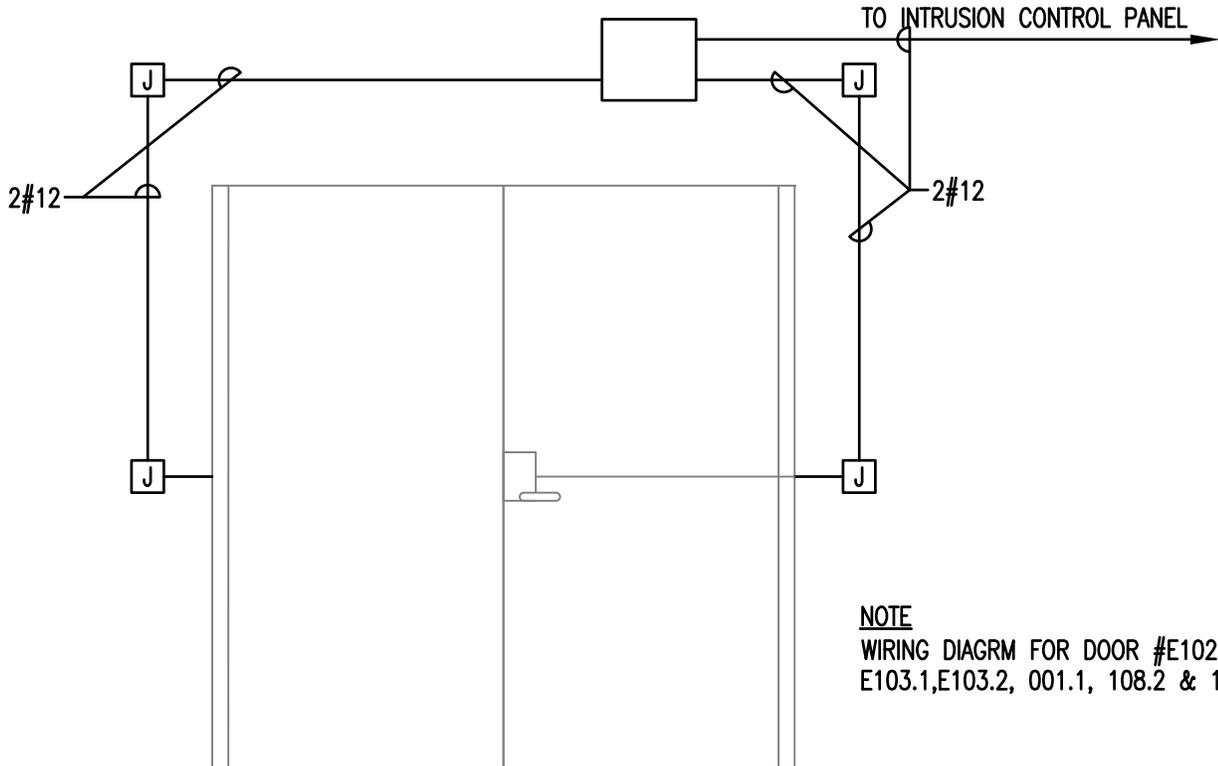
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CLARIFICATION SKETCH

REVISION TO DRAWING E-800

SKA-E-010



NOTE
 WIRING DIAGRM FOR DOOR #E102.1,
 E103.1,E103.2, 001.1, 108.2 & 108H.1

⑧ DOUBLE DOOR INTRUSION ALARM
 NTS

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Scale: NONE
Date: 02/22/2012
Dwn by: AC
Title: **ADDENDA #5**
ITEM 4

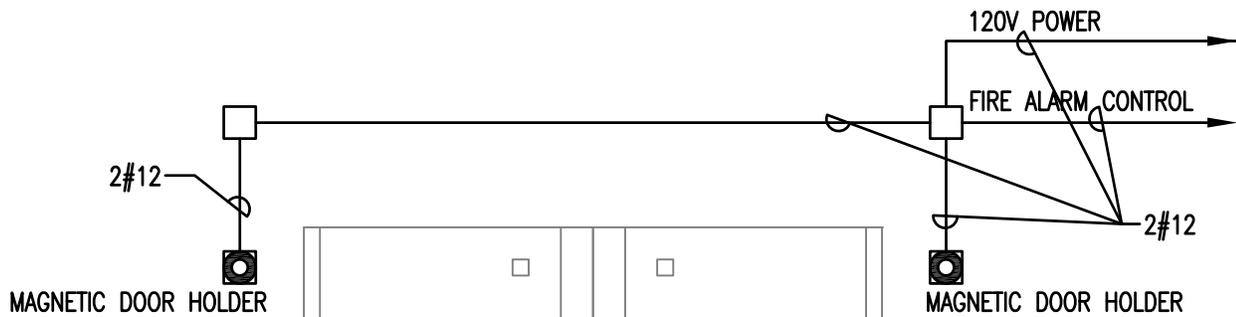
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REVISION TO DRAWING E-800

SKA-E-011



NOTE
 WIRING DIAGRAM FOR DOOR #105.1,
 153.1, 157.1, 160.1 & 214.1

⑨ DOUBLE CORRIDOR FIRE DOORS
 NTS

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Scale: NONE
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Dwn by: AC
Title: ADDENDA #5
 ITEM 5

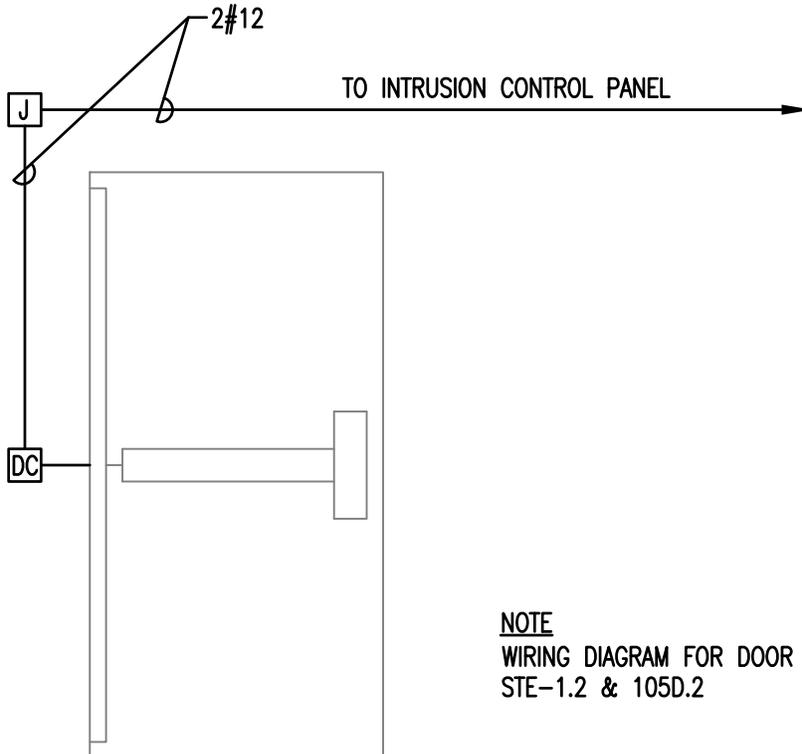
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CLARIFICATION SKETCH

REVISION TO DRAWING E-800

SKA-E-012



NOTE
 WIRING DIAGRAM FOR DOOR #E101.2
 STE-1.2 & 105D.2

④ DOUBLE DOOR CARD ACCESS & ADA
 NTS

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 △ **PROVIDENCE, R.I.**

Scale: NONE
Date: 02/22/2012
Dwn by: AC
Title: **ADDENDA #5**
ITEM 6

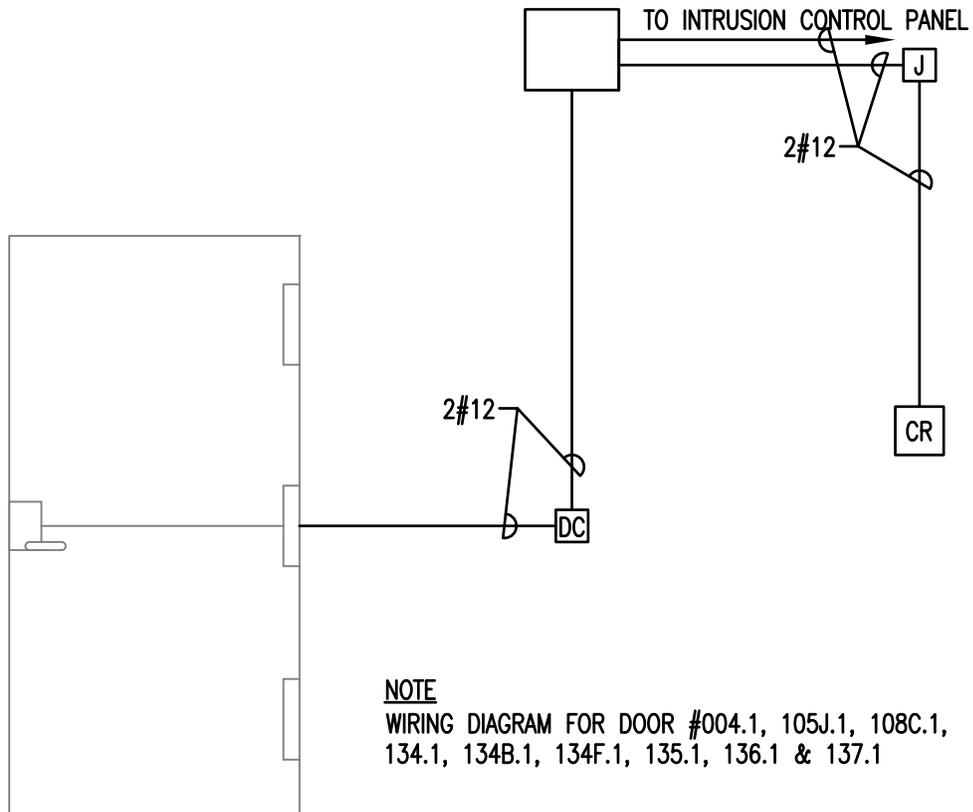
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REVISION TO DRAWING E-800

SKA-E-013



② SINGLE DOOR CARD ACCESS & SECURITY
 NTS

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Scale: NONE
Date: 02/22/2012
Dwn by: AC
Title: **ADDENDA #5**
ITEM 7

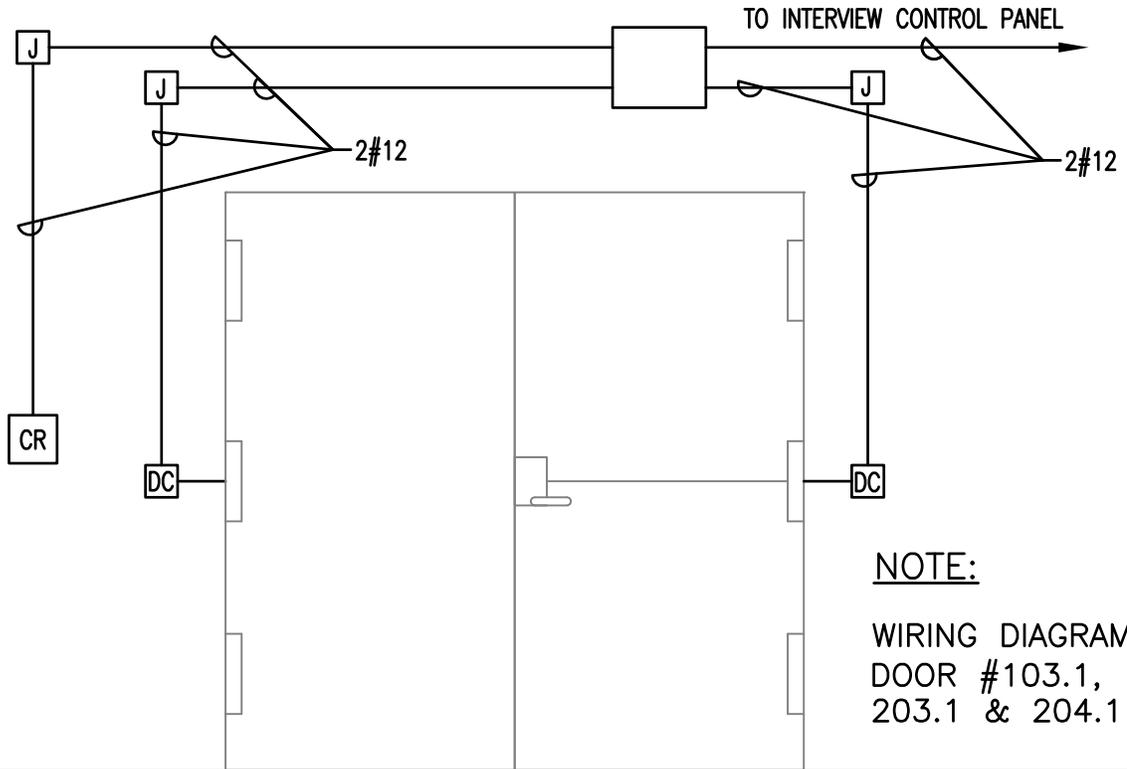
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SKA-E-014



⑩ DOUBLE DOOR CARD ACCESS
NTS

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Scale: NONE
Date: 02/22/2012
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Title: **ADDENDA #5**
ITEM 8

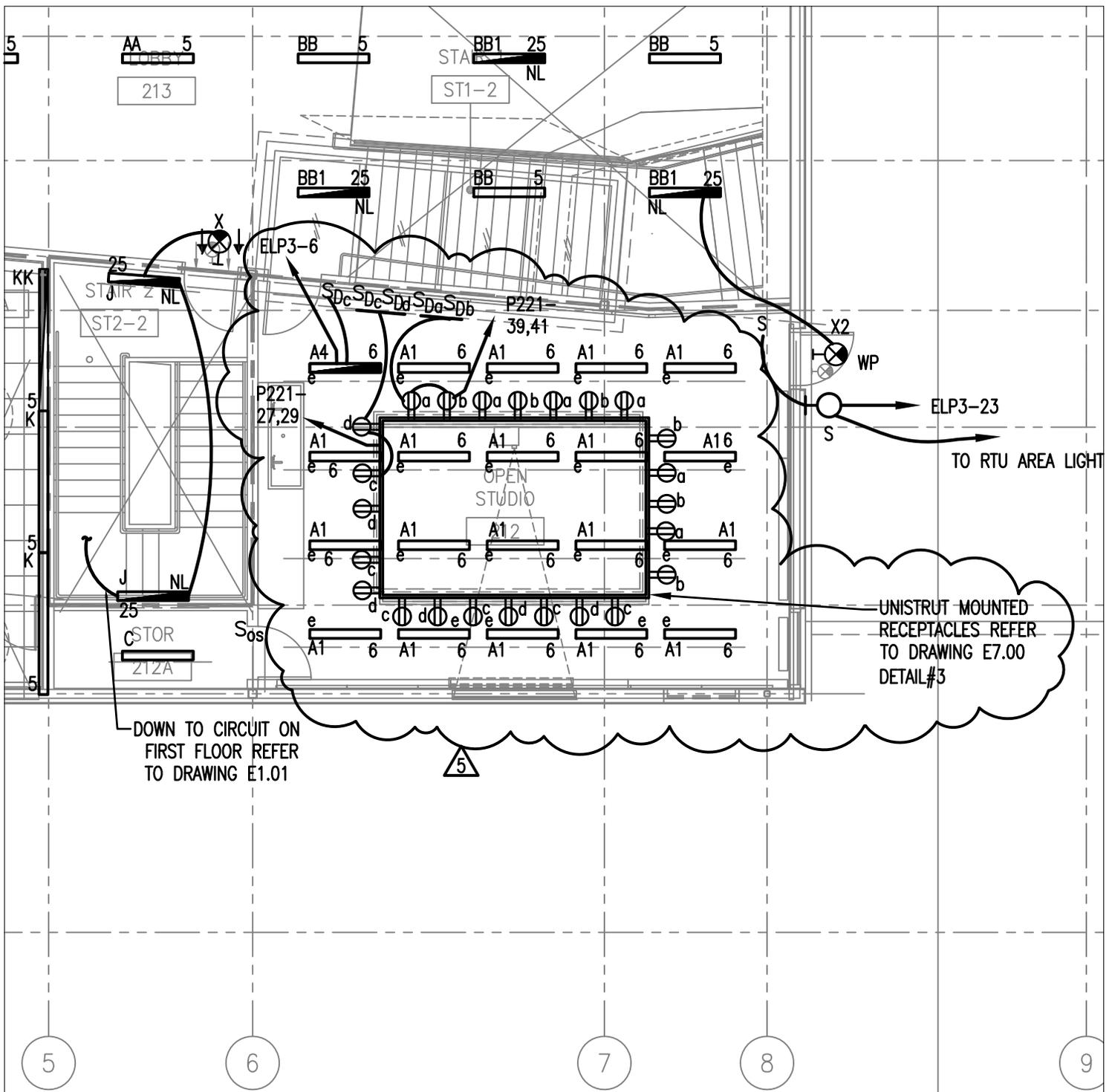
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REVISION TO DRAWING E-800

SKA-E-015



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Scale: 1/8" = 1'-0"
Date: 02/22/2012
Dwn by: AC
Title: ADDENDA #5
ITEM 11

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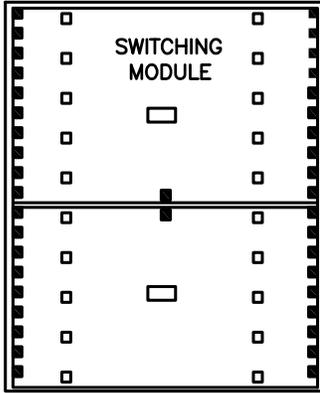
REVISION TO DRAWING E-102

SKA-E-016

PANEL BOARD SCHEDULE

PANEL# ELP1	<input type="checkbox"/> DOUBLE WIDTH	LOCATION CORR 157 PHASE 2 FIRST FLOOR	MAINS BREAKER 100 AMP 3 POLE	ENCLOSURE NEMA 1
SERVICE 277/480 VOLT 3 PHASE 4 WIRE			LUGS — AMP — POLE	
			<input type="checkbox"/> TOP <input checked="" type="checkbox"/> BOTTOM	
			<input checked="" type="checkbox"/> FLUSH MOUNTED <input type="checkbox"/> SURFACE MOUNTED	

CKT	FOR	BREAKER				KVA	CKT	FOR	BREAKER				KVA
		TRIP	POLES	VOLTS					TRIP	POLES	VOLTS		
1	LIGHTING	20	1	277	3.03	2	LIGHTING	20	1	277	2.536		
3	LIGHTING	20	1	277	3.6	4	LIGHTING	20	1	277	1.536		
5	LIGHTING	20	1	277	2.0	6	LIGHTING	20	1	277	1.555		
7	LIGHTING	20	1	277	.144	8	LIGHTING	20	1	277	2.47		
9	SPARE	20	1	277	—	10	SPARE	20	1	277	—		
11	SPARE	20	1	277	—	12	SPARE	20	1	277	—		
13	SPARE	20	1	277	—	14	SPARE	20	1	277	—		
15	SPARE	20	1	277	—	16	SPARE	20	1	277	—		
* 17	NIGHT LIGHTING	20	1	277	2.295	18	SPARE	20	1	277	—		



TOTAL KVA — LEFT SIDE 9.978 TOTAL KVA — RIGHT SIDE 8.097

* CIRCUIT NOT TO BE SWITCHED

5

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ART CENTER RENOVATION R.I.C.
PROVIDENCE, R.I.

Scale: 1/8" = 1'-0"
Date: 02/22/2012
Dwn by: AC
Title: ADDENDA #5
ITEM 3

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CLARIFICATION SKETCH

REVISION TO DRAWING E-402

SKA-E-017

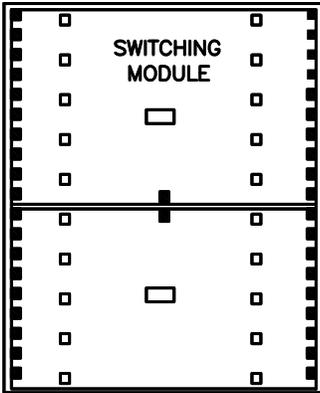
PANEL BOARD SCHEDULE

PANEL# ELP2	<input type="checkbox"/> DOUBLE WIDTH	LOCATION CORR 133 PHASE 1 FIRST FLOOR	MAINS BREAKER 100AMP 3_POLE	ENCLOSURE NEMA 1 <input checked="" type="checkbox"/> FLUSH MOUNTED <input type="checkbox"/> SURFACE MOUNTED
SERVICE 277/480 VOLT 3 PHASE 4 WIRE			<input type="checkbox"/> TOP <input checked="" type="checkbox"/> BOTTOM	

PANEL
ELP2
SERV
277

CKT	FOR	BREAKER				KVA	CKT	FOR	BREAKER				KVA
		TRIP	POLES	VOLTS					TRIP	POLES	VOLTS		
1	LIGHTING	20	1	277	2.177	2	LIGHTING	20	1	277	2.37		
3	LIGHTING	20	1	277	3.712	4	LIGHTING	20	1	277	2.112		
5	LIGHTING	20	1	277	4.096	6	LIGHTING	20	1	277	3.648		
7	LIGHTING	20	1	277	1.408	8	LIGHTING	20	1	277	2.432		
9	LIGHTING	20	1	277	.558	10	LIGHTING	20	1	277	2.2		
11	SPARE	20	1	277	-	12	SPARE	20	1	277	-		
13	SPARE	20	1	277	-	14	SPARE	20	1	277	-		
15	SPARE	20	1	277	-	16	SPARE	20	1	277	-		
* 17	NIGHT LIGHTING	20	1	277	1.404	18	SPARE	20	1	277	-		

CKT
1
3
5
7
9
11
13
15
* 17



TOTAL KVA - LEFT SIDE 11.39 TOTAL KVA - RIGHT SIDE 12.76

TOTA

* CIRCUIT NOT TO BE SWITCHED



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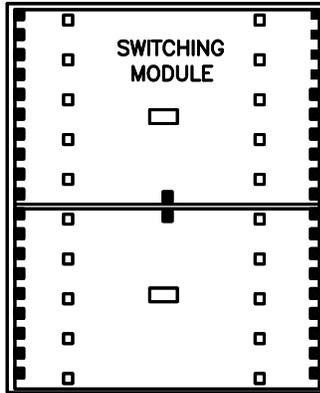
REVISION TO DRAWING E-402

SKA-E-018

PANEL BOARD SCHEDULE

PANEL # ELP3		<input type="checkbox"/> DOUBLE WIDTH	LOCATION CORR 214 PHASE 2 SECOND FLOOR		MAINS BREAKER 100AMP_3_POLE		ENCLOSURE NEMA 1	
SERVICE 277/480 VOLT 3 PHASE 4 WIRE						LUGS AMP_POLE		<input checked="" type="checkbox"/> FLUSH MOUNTED
						<input checked="" type="checkbox"/> TOP <input type="checkbox"/> BOTTOM		<input type="checkbox"/> SURFACE MOUNTED

CKT	FOR	BREAKER				KVA	CKT	FOR	BREAKER				KVA
		TRIP	POLES	VOLTS					TRIP	POLES	VOLTS		
1	LIGHTING	20	1	277	2.816	2	LIGHTING	20	1	277	3.72		
3	LIGHTING	20	1	277	1.96	4	LIGHTING	20	1	277	2.95		
5	LIGHTING	20	1	277	1.6	6	LIGHTING	20	1	277	1.856		
7	LIGHTING	20	1	277	1.5	8	LIGHTING	20	1	277	1.5		
9	LIGHTING	20	1	277	1.5	10	LIGHTING	20	1	277	1.5		
11	SPARE	20	1	277	-	12	SPARE	20	1	277	-		
13	SPARE	20	1	277	-	14	SPARE	20	1	277	-		
15	SPARE	20	1	277	-	16	SPARE	20	1	277	-		
* 17	NIGHT LIGHTING	20	1	277	.596	18	SPARE	20	1	277	-		



TOTAL KVA - LEFT SIDE

- TOTAL KVA - RIGHT SIDE -

* CIRCUIT NOT TO BE SWITCHED



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SKA-E-019

CLASS ROOM EQUIPMENT SCHEDULE

REF. DES.	RM#	EQUIPMENT DESCRIPTION	QTY	PANELBOARD AND CIRCUIT NUMBER	ELECTRICAL CHARACTERISTICS					CONNECTIONS		NEMA CONFIG	REMARKS
					HP	KW	Ø	VOLTS	AMPS	FLEX.	HARD WIRED		
CERAMICS (CM)													
CM1	108	POTTERS WHEELS (1 THRU 12)	12	SEE FLOOR PLAN	1/4	-	1	120	-	-	-	L5-20R EACH	MOUNT RECEPTACLES ON EXTENDED CONDUIT UNDER WHEELS
CM3	108C	ELECTRIC KILN	1	PCM-37,39,41	-	14.3	3	240	47A	-	X		60A DISCONNECT SWITCH 3#6 & 1#10G-3/4"C
CM4	108C	ELECTRIC KILN (OVAL)	1	PCM-34,36	-	14.3	1	240	-	-	X		80A DISCONNECT SWITCH 2#4 & 1#8G-1"C
CM5	108C	ELECTRIC KILN	1	PCM-38,40,42	-	-	3	240	-	-	X		60A DISCONNECT SWITCH 3#6 & 1#10G-3/4"C
CM6	108C	BARTLETT ELECTRIC KILN	1	PCM-26,28,30	-	-	3	240	54A	-	X		60A DISCONNECT SWITCH 3#6 & 1#10G-3/4"C
CM7	108H	GEIL GAS KILN	1	PCM-8	-	-	1	120	20A	-	X		20A DISCONNECT SWITCH 2#12 & 1#12G-3/4"C
CM11	108C	VANHO PUGMILL	1	PCM-31,33,35	-	-	3	208	30A	-	-		30A DISCONNECT SWITCH 3#10 & 1#10G-3/4"C
CM20	108	SOLDNERS POTTERS WHEELS 1 THRU 4	4	SEE FLOOR PLAN	1/4	-	1	120	-	-	-	L5-20R	2#12 & 1#12G-3/4"C
CM20	108A	SOLDNERS POTTERS WHEELS 5 THRU 10	6	SEE FLOOR PLAN	1/4	-	1	120	-	-	-	L5-20R	2#12 & 1#12G-3/4"C
CM22	108	CEILING MOUNTED RETRACTABLE CORD REAL 1 THRU 3	3	SEE FLOOR PLAN	-	1.6	+	128	-	-	X		2#12 & 1#12G-3/4"C
CM22	108A	CEILING MOUNTED RETRACTABLE CORD REAL 4 & 5	2	SEE FLOOR PLAN	-	1.5	1	120	-	-	X		2#12 & 1#12G-3/4"C
CM23	108F	SPRAY BOOTH	1	PCM-20	1/4	-	1	120	-	-	X		2#12 & 1#12G-3/4"C
CM24	108F	WALL MOUNTED GLAZE MIXER	1	PCM-22	1/2	-	1	120	-	-	X		2#12 & 1#12G-3/4"C
CM25	108F	SHIMPO SMALL BATCH GLAZE MIXER	1	PCM-17	-	.2	1	110	-	-	-	5-20R	2#12 & 1#12G-3/4"C
CM26	108F	ALPINE BALL MILL	1	PCM-25,27,29	-	2.2	3	240	-	-	X		DISCONNECT SWITCH 3#12 & 1#12G -3/4"C
CM30	108D	DOUBLE FUME VENT SYSTEM 1 THRU 3	3	PCM-24	-	.2	1	120	-	-	X		2#12 & 1#12G-3/4"C
CM31	108D	NABERTHERM N150 ELECTRIC KILN	1	PCM-19,21,23	-	11.0	3	240	-	-	X		DISCONNECT SWITCH 3#8 & 1#10G-3/4"C
CM32	108D	SKUTT TEST KILN	1	PCM-43,45	3.6	-	1	208	30A	-	-	14-30R	2#10 & 1#10G-3/4"C
CM35	108H	SANDBLASTING BOOTH	1	PCM-32	-	-	1	120	12A	-	-	5-20R	2#12 & 1#12G-3/4"C
CM37	108C	PETER PUGGER MIXER/PUGGER	1	PCM-47,49	3	-	1	208	16A	-	-	5-20R	3#12 & 1#12G-3/4"C
CM38	108C	CASTING PUMP TABLE	1	PCM-44	-	-	1	120	-	-	-	5-20R	2#12 & 1#12G-3/4"C
CM39	108C	SLIP MIXING TANK	1	PCM-46	1/3	-	1	120	-	-	-	5-20R	2#12 & 1#12G-3/4"C
CM41	108E	BOURRY BOX WOOD KILN	1	PCM-48	-	-	1	120	20A	-	X		CONTROL ONLY 2#12 & 1#12 G-3/4"C
CM42	108E	GEIL SHUTTLE GAS KILN	1		-	-	1	120	20A	-	X		
CM43	108E	SODA SHUTTLE KILN	1		-	-	1	120	20A	-	X		
CM44	108E	OLYMPIC LIFT CHAMBER WOOD KILN	1		-	-	1	120	20A	-	X		
CM45	E103	HOIST	1	PCM-51	2	-	1	120	30A	-	X		2#12 & 1#10G-3/4"C
ART HISTORY (AH)													

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ITEM 11

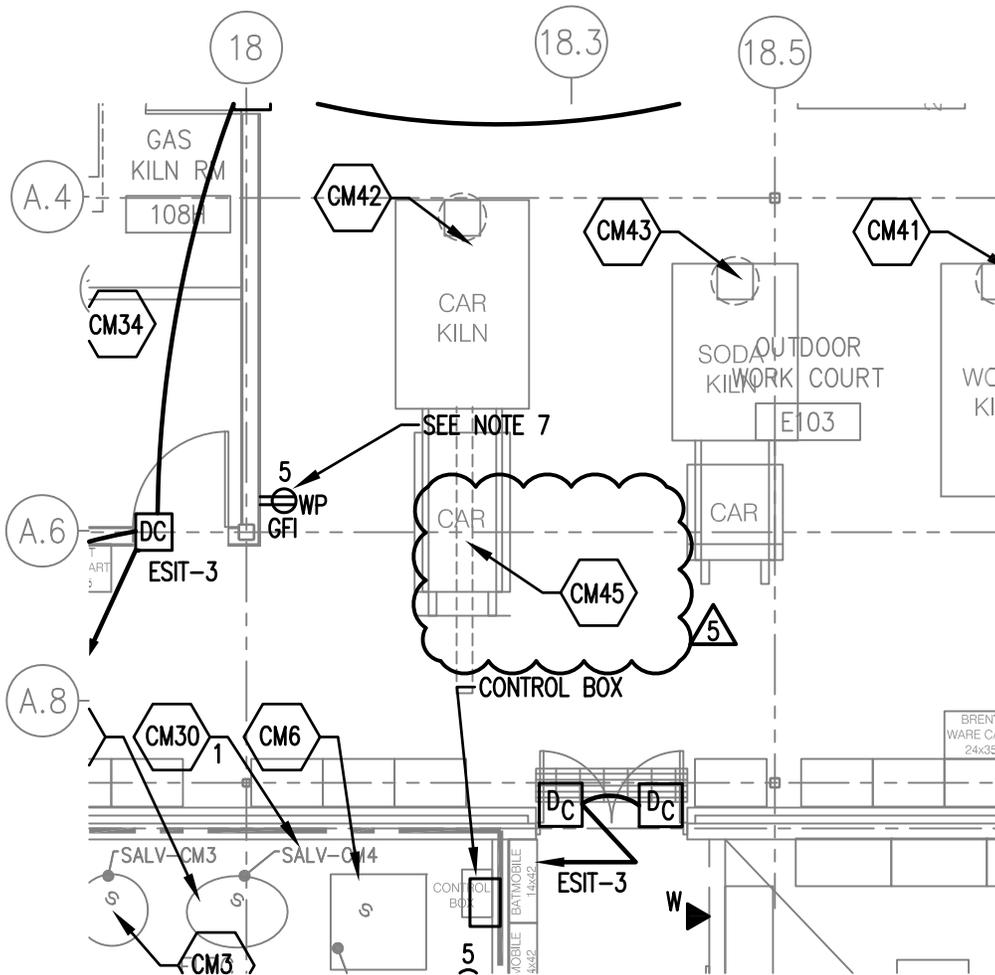
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SKA-E-021

PANEL BOARD SCHEDULE

PANEL# PCM	<input type="checkbox"/> DOUBLE WIDTH	LOCATION RM 108E CERAMICS	MAINS BREAKER 200 AMP 3 POLE	ENCLOSURE NEMA 1
SERVICE 120/208 VOLT 3 PHASE 4 WIRE			LUGS — AMP — POLE <input checked="" type="checkbox"/> FLUSH MOUNTED	
			<input checked="" type="checkbox"/> TOP <input type="checkbox"/> BOTTOM <input type="checkbox"/> SURFACE MOUNTED	

CKT	FOR	BREAKER			KVA	CKT	FOR	BREAKER			KVA
		TRIP	POLES	VOLTS				TRIP	POLES	VOLTS	
1	CM20 POTTERS WHEEL	20	1	120	1.392	2	CM1 POTTERS WHEEL	20	1	120	1.392
3	CM20 POTTERS WHEEL	20	1	120	1.392	4	CM1 POTTERS WHEEL	20	1	120	1.392
5	CM1 POTTERS WHEEL	20	1	120	1.392	6	CM1 POTTERS WHEEL	20	1	120	1.392
7	CM1 POTTERS WHEEL	20	1	120	1.392	8	CM7 KILN	20	1	120	.2
9	CM1 POTTERS WHEEL	20	1	120	1.392	10	CM22 POWER REEL	20	1	120	1.5
11	CM20 POTTERS WHEEL	20	1	120	1.392	12	CM22 POWER REEL	20	1	120	1.5
13	CM20 POTTERS WHEEL	20	1	120	1.392	14	CM22 POWER REEL	20	1	120	1.5
15	CM20 POTTERS WHEEL	20	1	120	1.392	16	CM22 POWER REEL	20	1	120	1.5
17	CM25 GLAZE MIXER	20	1	120	.2	18	CM22 POWER REEL	20	1	120	1.5
19	CM31					20	CM23 SPRAY BOOTH	20	1	120	.696
21	KILN	40	3	120		22	CM24 GLAZE MIXER	20	1	120	1.176
23						24	CM30	20	1	120	.6
25	CM26					26	CM6				
27	BALL M14	20	3	208	2.2	28	KILN	60	1	120	
29						30	SPARE				
31						32	CM35 SANDBLASTING BOOTH	20	1	120	1.440
33	CM11 PUGMILL 30	30	3	208		34	CM4	80	2	208	1.43
35						36	KILN	80	2	208	1.43
37			1	120		38					
39	CM3 KILN	60	3	208	14.3	40	CM5 KILN	60	3	20	
41	SPARE	20	1	120		42					
43	CM32	30	2	203	6.1	44	CM38 PUMP TABLE	20	1	120	.50
45	KILN	30	2	203	6.1	46	CM39 MIXING TANK	20	1	120	.864
47	CM 37	20	2	120	3.328	48	KILN CONTROL	20	1	120	.80
49	MIXER/PUGGER	20	2	120	3.328	50	CM22 POWER REAL	20	1	120	1.5
51	CM45	30	1	120	1.80	52	CM22 POWER REAL	20	1	120	1.5
53	SPARE	20	1	120		54	CM22 POWER REAL	20	1	120	1.5
55	SPARE	20	1	120		56	CM22 POWER REAL	20	1	120	1.5
57	SPARE	20	1	120		58	CM22 POWER REAL	20	1	120	1.5

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Scale: NONE
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Dwn by: AC
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