



## INVITATION TO BID ADDENDUM TO THE ITB

**Project Name: FROB Building Renovations**  
**Project Number: 2013-0222-1851**

|   |                      |
|---|----------------------|
| <b>ADDENDUM #:</b> 1                          |                      |
| <b>CURRENT BID OPENING DATE:</b> May 22, 2013 | 2:00 p.m. Local time |

|  |                      |
|--|----------------------|
| <b>PREVIOUS ADDENDA:</b>                       | None                 |
| <b>PREVIOUS BID OPENING DATE:</b> May 22, 2013 | 2:00 p.m. Local time |

|                   |   |   |
|-------------------|---|---|
| <b>ISSUED BY:</b> | <b>Statewide Facilities</b><br><b>Physical Address:</b><br>Department of Administration<br>Division of General Services<br>550 West 7th Avenue, Suite<br>1970 Anchorage, Alaska 99501 | <b>Mailing Address:</b><br>Department of Administration<br>Division of General Services<br>550 West 7th Avenue, Suite<br>1970 Anchorage, Alaska 99501 |
|-------------------|---|---|

|   |
|---|
| <b>DATE ADDENDUM ISSUED:</b> May 10, 2013 |
|---|

The following items of the ITB are modified as herein indicated. All other items remain the same.

### Clarifications

|                   |   |
|-------------------|---|
| <b>Item No.1:</b> | Project Storage – see section 01 14 13 – pg 3 Contractors Work and Storage Area item C. and Section 011000 Summary of work Sec. 1.7 Use of Premises Items A & B.  |
|                   | Coordinate with Mike Bratten for any items to be turned over to the State and where to put them. As for construction material there is no onsite storage area other than within the work area on the second floor. When bringing tools equipment and materials to the work site there is a loading dock on south side of building that can be used for offloading and a staging area – but all must then be moved to the work area. With that said there will be made available to the contractor a small room across the hall/Lobby on 2 <sup>nd</sup> fl. Approximate size is 3’6” x 7’ – ceiling height is 7’6”. |
| <b>Item No.2:</b> | Parking – see section 01 14 13 – pg. 3 Parking item A and Section 011000 Summary of work Sec. 1.7 Use of Premises Item E.   |
|                   | There is no on-site parking available during normal business hours. After 4 pm metered areas are free and south side of building the opposite side of the street is non-metered. For afterhours work (5pm to 6 am) parking in the under building garage will be permitted.  |

## Clarifications con't.

|  |   |
|--|---|
| <b>Item No.3:</b>  | Electrical Specialty Items – see Drawings E1.2 Note 6 and Drawing E2.3 Note 4 & 5                             |
| All work, including demolition and reinstallation, of the Card Access system and CCTV Cameras will be performed by Alcantel, Inc. under the SOA Electrical Services Contract. Rough-ins are to be performed by Contractor as noted.  |   |
| <b>Item No.4:</b>  | Existing Demountable Wall System  |
| The 2 Demountable walls encompassing office in SE corner of the worksite is to be salvaged and turned over to SOA, to include track, wall panels, relites, door and door frame. This is new generation wall system and is used throughout the 2nd fl. All other Demountable wall system in the work area is old vintage and can be discarded. See attached revised drawing SKA-1 |   |
| <b>Item No.5:</b>  | Door Hardware   |
| Door Lock Hardware will be removed, labeled and stored by the SOA. Contractor to co-ordinate with SOA for reuse/installation by the Contractor. Door Hardware Schedule has been revised see attached revised drawing A12.0   |   |
| <b>Item No.7:</b>  | Work above Ceilings on first floor – see Drawing A4.0 and M2.1  |
| All work above the ceiling needs to be done after hours. Ceiling must be put back each night to maintain Fire rated assembly while space is occupied during normal business hours.   |   |
| <b>Item No.8:</b>  | Dumpster – see Section 011000 Summary of Work Item 1.7 Use of Premises No. 6                                  |
| The SOA will be providing a dumpster for the demolition portion of the project only. After demolition the contractor will need to make their own arrangements for moving offsite any trash.  |   |
| <b>Item No.9:</b>  | Ceiling Tile – see Section 09-5100 Acoustical Ceilings – Part 2 Products Item A.5 Item B.5                    |
| Owner will <b><i>not</i></b> be providing any ceiling tile. All is to be provided by Contractor.   |   |
| <b>Item No.10:</b>   | Permits – see General Conditions Article 7 Section 7.2.1 and Section 02 4100 Part 3 Section 3.02 Item No. A.1 |
| The SOA will provide the primary building permit. The Contractor will be responsible to provide all other permitting requirements for subs.  |   |
| <b>Item No.11:</b>   | Privacy wall in DOL 2 <sup>nd</sup> fl west of the work site.   |
| See attached drawings SKA-1 and SKA-2 – The work in this area has been changed   |   |
| <b>Item No.12:</b>   | See Drawing A9.0 Demolition Notes   |
| Demolition Keynote 1 should read "existing grid and demountable partition track may need additional support. Provide adequate support as necessary."   |   |
| <b>Item No.13:</b>   | See Drawing A9.0 Demolition Notes   |
| A9.0 Demolition notes; Delete reference to retaining ceiling tile marked for removal. Do not retain any doors except as specifically noted.  |   |
| <b>Item No.14:</b>   | See Drawing M0.2  |
| Revise tag for exhaust fan from "EF-1" to "EF-2" in Fan Schedule.  |   |
| <b>Item No.15:</b>   | See Drawing M0.3  |
| Revise Section 1.A under Waste and Vent Piping and Specialties to read, "cispi 301 hub-less, cast iron pipe with cispi 310, neoprene gasket and four-band stainless steel clamp-and-shield assemblies. Husky series 4000."   |   |

## Clarifications con't.

|  |                  |
|--|------------------|
| <b>Item No.16:</b>   | See Drawing M0.3 |
| Revise tag for exhaust fan from "EF-1" to "EF-2".  |                  |
| <b>Item No.14:</b>   | See Drawing M0.3 |
| All air boxes to be DDC controlled using owner provided Micro Flows and Thermisters.                         |                  |
| <b>Item No.14:</b>   | See Drawing M2.2 |
| Revise tag for exhaust fan serving Toilet (210) from "EF-1" to "EF-2".                                       |                  |
| <b>Item No.14:</b>   | See Drawing M2.1 |
| The vertical 4" w/v line behind wall in womens room is determined to be ok to connect the new waste line to. |                  |

## Answers to Submitted Questions

|  |   |
|--|---|
| <b>QuestionNo.1:</b>   | Electrical in floor - are we going to provide red line drawings of existing under floor duct system?  |
| Answer: Yes in Addendum #2 – it will include the original as-builts  |   |
| <b>QuestionNo.2:</b>   | Detail for privacy wall in DOL to protect their area from construction noise dust etc.  |
| Answer: See attached drawings SKA-1 and SKA-2 – The work in this area has been changed   |   |
| <b>QuestionNo.3:</b>   | Doors - plans call out reuse where possible; door schedule calls out aluminum frames, specs call out steel welded. What would the State like us to give a price on?   |
| Answer: Door Schedule has been updated see Attachment # 3 A12.0  |   |
| <b>QuestionNo.4:</b>   | A12.0 GN #8 calls out corner guards, what kind would the State like?  |
| Answer: This will be addressed in Addendum #3  |   |
| <b>QuestionNo.5:</b>   | Sheet note 6 on E2.2 calls out an electric door lock, but none in hardware group 4? Also, if this is a pwr lock, door 214 shares the same hardware group, but E2.2 doesn't call for a power run...  |
| Answer: This will be addressed in Addendum #3  |   |
| <b>QuestionNo.6:</b>   | The specs include section 08 8717, safety and security glazing films, but paragraph 2.02 A. 3 calls it to be applied to exterior windows, which this project doesn't seem to have. How would you like us to bid this?   |
| Answer: Safety and security glazing is to be applied to existing exterior windows.   |   |
| <b>QuestionNo.7:</b>   | Is there going to be any other work going on in the FROB building at the same time that we will have to schedule or work around?  |
| Answer: No   |   |
| <b>QuestionNo.8:</b>   | Per summary of work, para 1.7E and section 011413 there appears to be no parking, laydown, storage...do we truly have no support from the State on this? Where are we to put our dumpster, job-shack, parking, storage for the owner's salvaged material etc? |
| Answer: See Clarifications #1, #2 and #8 on Addendum No.1  |   |
| <b>QuestionNo.9:</b>   | Summary of work para 1.9 A seems to imply this is a night job. Is that correct?   |
| Answer: Work can be performed during the day (normal business hours) Monday through Friday and Saturdays, Sundays and State Holidays, as long as it is not disruptive to occupying tenants, i.e. no core drilling, Hilti guns, odiferous painting, etc. All noisy smelly disruptive work must be done after hours. |   |

## Answers to Submitted Questions con't.

|  |   |
|--|---|
| <b>QuestionNo.10:</b>  | Is the job going to be managed out of Fairbanks or Anchorage?   |
| Answer: Both. Dan Reynolds will be the primary contact for the Contractor and has the delegated authority to alter and or change the work. Mike Bratten will be on-site and can deal with immediate issues and or the logistics of working in and around the building. Specifically any issues that need feedback from Owner, Architects and Engineers are to be channeled through Dan Reynolds. |   |
| <b>QuestionNo.11:</b>  | LD's are TBD per SC11.8, are there going to be LD's? If so how much?  |
| Answer: Yes as follows: \$210 per day  |   |
| <b>QuestionNo.12:</b>  | Please provide specific requirements for the accomplishing the plumbing run on 1st floor...ceilings, hours, etc   |
| Answer: See Clarification #7 above   |   |
| <b>QuestionNo.13:</b>  | Please clarify what demo items to be salvaged for owner.  |
| Answer: The only demo items to be retained are the southeast office demountable partitions and door and track and relites, the existing corridor door with all hardware, ceiling light fixtures for reuse within this project – (See E1.2 and E2.1), and locksets for all the doors.   |   |
| <b>QuestionNo.14:</b>  | During the walkthrough, the plumbing run appeared to me to be one of the most awkward items to accomplish, due to its routing through occupied space and the size of pipe. Is the State at all open to a possible alternative routing / system? |
| Answer: A/E group looked at several different options for this plumbing run and elected to go with the one designed on the drawings. For now please Bid as designed.   |   |
| <b>QuestionNo.15:</b>  | Do the S2 wall type need Deflection track at the top deck? If so what would be the gap need for from deck to sheet rock?  |
| Answer: Contractor provide a deflection track that allows for ¾" movement.   |   |

## PROJECT SPECIFICATIONS

|  |  |
|--|--|
| Item No. 1:  | See attached revised specifications on drawings SKA-1, SKA-2, A12.0, SKE-1, 2, 3, 4, 5, 6, & 7 |
| In addition to the clarifications and questions answered within this addendum #1 there are other changes as well so be sure to review the attached drawings carefully. |  |

## PROJECT DRAWINGS

|  |  |
|--|--|
| Item No. 1:  | See attached revised drawings SKA-1, SKA-2, A12.0, SKE-1, 2, 3, 4, 5, 6, & 7 |
| In addition to the clarifications and questions answered within this addendum #1 there are other changes as well so be sure to review the attached drawings carefully. |  |

## NOTED ATTACHMENTS (10) FOLLOW

END OF ADDENDUM No. 1

By: *Dan Reynolds*

Dan Reynolds , Facilities Contracting Officer

Total number of pages contained within this Addendum: 4 + 10 attachments

# DEMOLITION LEGEND & NOTES

————— EXISTING TO REMAIN

----- EXISTING TO BE REMOVED

ALL RELITES, & FRAMES NOTED FOR DEMOLITION ARE TO BE REMOVED, STORED, & PROTECTED FOR FUTURE USE

PATCH/REFINISH WALLS WHERE ELECTRICAL & COMMUNICATIONS ITEMS HAVE BEEN REMOVED TO LIKE NEW CONDITION

ALL ITEMS THAT ARE REMOVED, INCLUDING TRIM, DOORS, RELITES, LIGHTS, AND HARDWARE ARE TO BE PROTECTED AND TURNED OVER TO BUILDING MANAGEMENT.

ALL FLOORING WITHIN AREA OF WORK TO BE REMOVED, UNLESS NOTED OTHERWISE.

SEE MECHANICAL/ELECTRICAL FOR ADDITIONAL DEMOLITION WORK.

# DEMOLITION KEYNOTES

1. REMOVE EXISTING WALL ASSEMBLY/DEMOUNTABLE PARTITION AS SHOWN. PATCH AND REPAIR WALL FINISHES TO MATCH ADJOINING SURFACES. REPLACE FLOOR FINISH OUTSIDE OF AREA OF WORK AS REQUIRED TO PROVIDE A COMPLETE FINISHED ASSEMBLY.

2. EXISTING FIRE EXTINGUISHER CABINET AND HOSE TO BE REMOVED. SEE 'NEW WORK' PLANS FOR REQUIRED LOCATIONS OF FIRE EXTINGUISHERS. CONTRACTOR TO VERIFY ALL REQUIRED EXTINGUISHER CABINET LOCATIONS PRIOR TO PURCHASE.

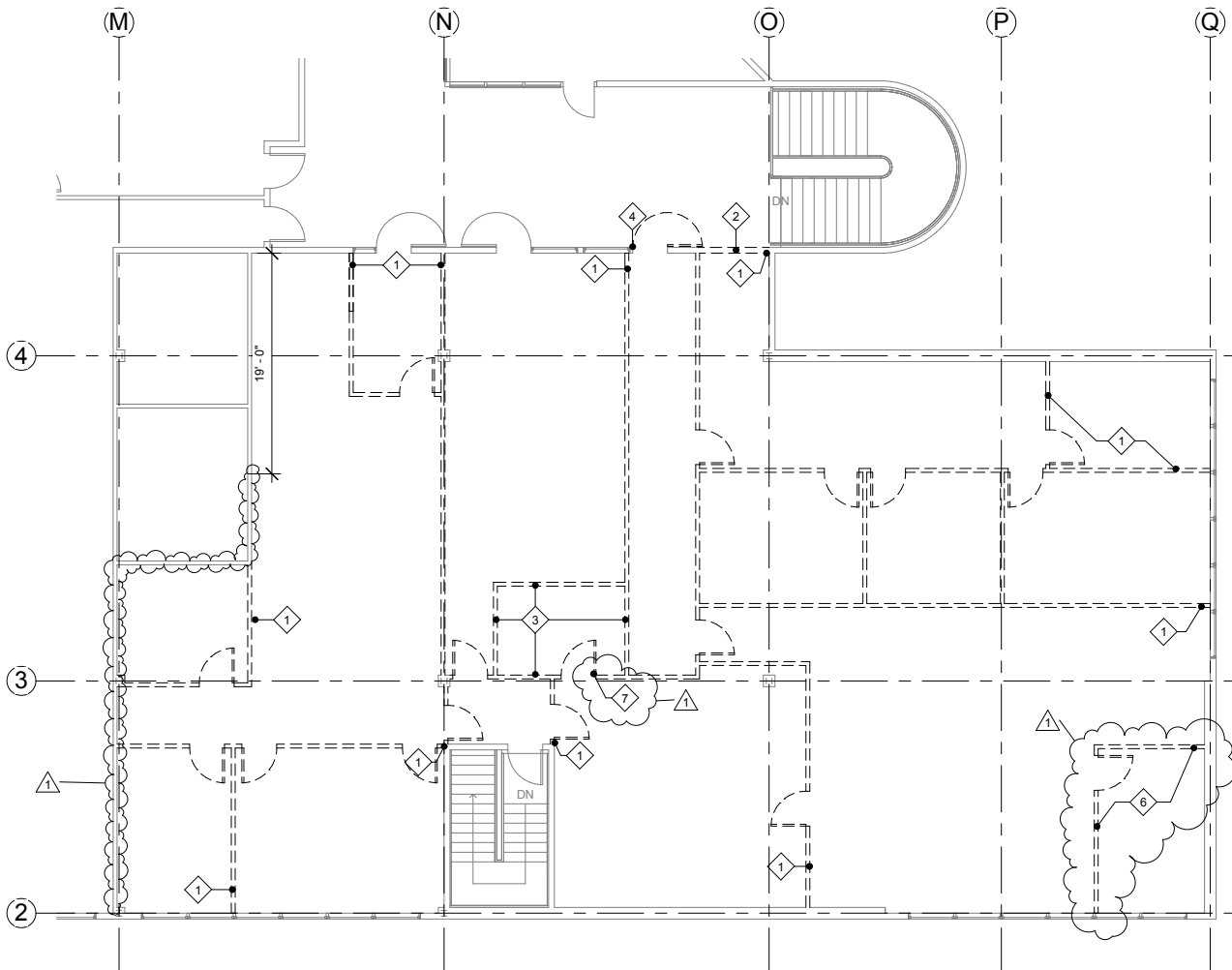
3. EXISTING SECURE STORAGE CAGE TO BE REMOVED FROM ALL WALLS AND CEILING.

4. REMOVE, STORE, PROTECT DOOR FOR REUSE. PATCH FIRE RATED WALL, ENSURE FIRE RATING MAINTAINED.

5. DEMOLISH PLUMBING UP TO FIRE HOSE ON SECOND LEVEL. CAP WATER TIGHT. SEE MECHANICAL DRAWINGS. PATCH AND PAINT WALL TO LIKE NEW CONDITION.

6. DEMOUNTABLE PARTITIONS AND DOOR; THIS OFFICE ONLY: PROTECT, STORE, AND TURN OVER TO BUILDING MANAGEMENT FOR FUTURE REUSE.

7. DEADBOLT TO BE REMOVED FROM EXISTING DOOR BY BUILDING MANAGEMENT, LABELLED, STORED, AND REINSTALLED IN NEW DOOR 214 BY CONTRACTOR; SEE DOOR SCHEDULE A12.0



1 SECOND FLOOR DEMOLITION PLAN  
1/16" = 1'-0"



101 West Benson Blvd., Ste. 306  
Anchorage, AK 99503  
907.561.5543 p  
907.562.3213 f  
www.ecihyer.com

## STATE OF ALASKA FROB BUILDING RENOVATIONS

ADDENDUM #1

SECOND FLOOR DEMOLITION PLAN

Project number 11-0013.24

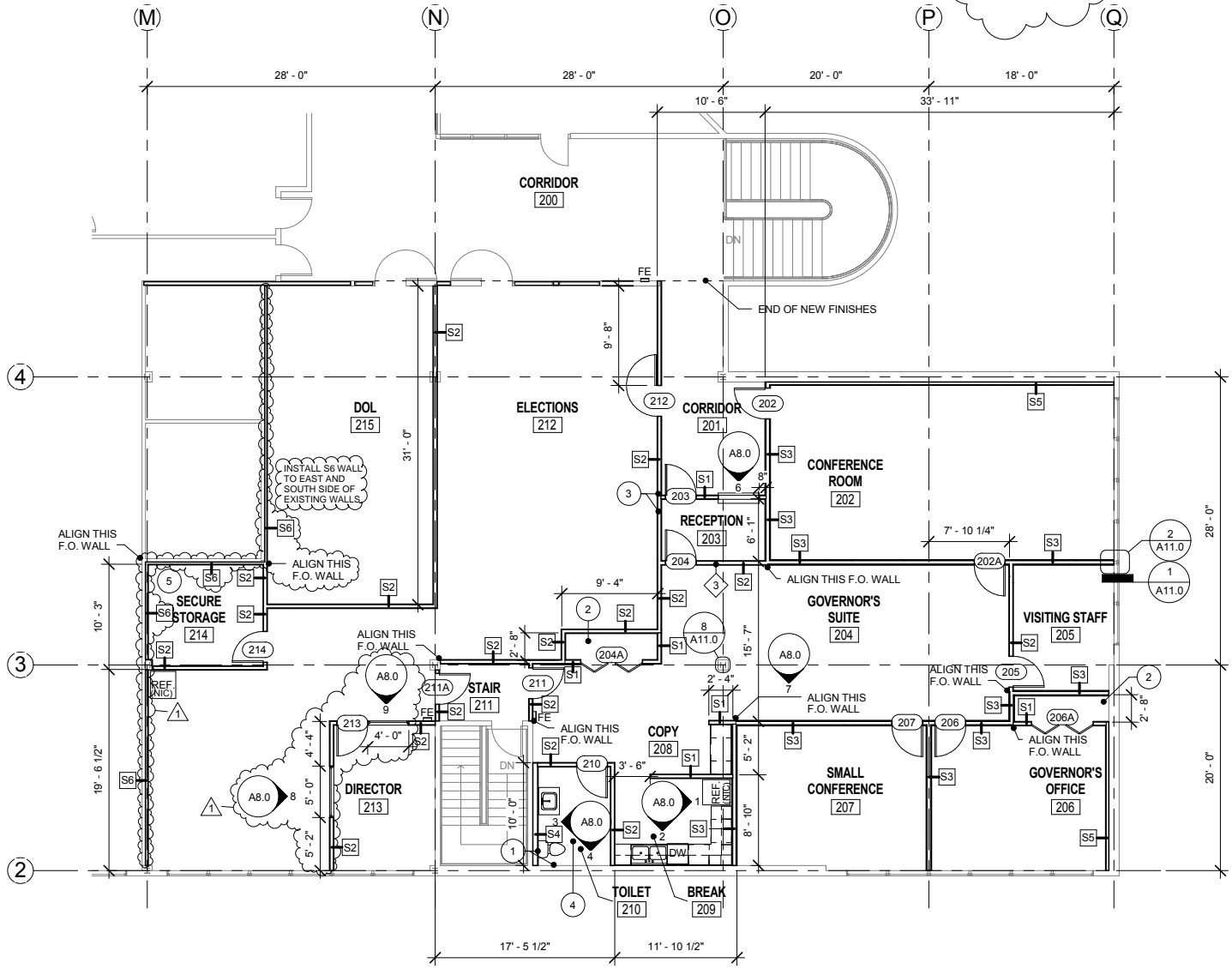
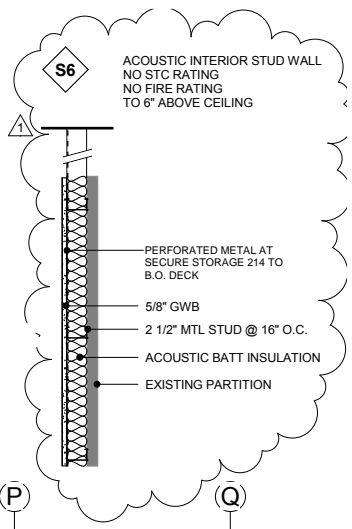
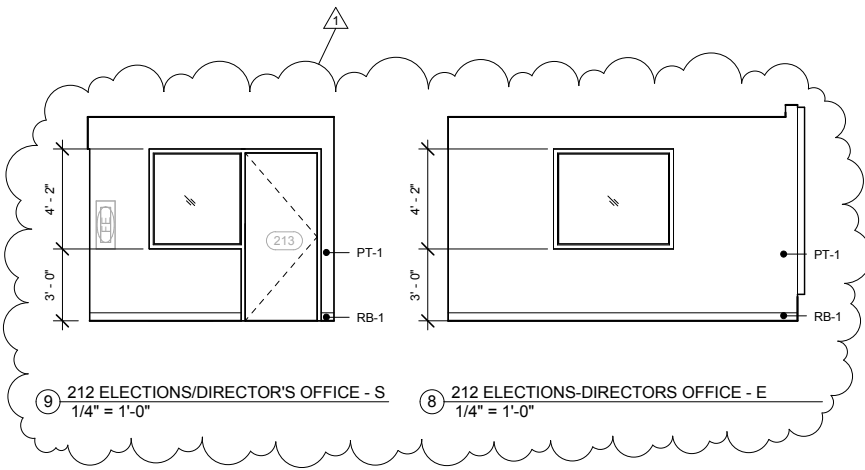
Date 05.09.2013

Drawn by CD

Checked by JS

SKA-1

Scale 1/16" = 1'-0"



1 PARTIAL SECOND FLOOR PLAN  
1/16" = 1'-0"

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STATE OF ALASKA  
**FROB BUILDING  
RENOVATIONS**

|                                     |              |
|-------------------------------------|--------------|
| ADDENDUM #1                         |              |
| PARTIAL FLOOR PLAN AND S6 WALL TYPE |              |
| Project number 11-0013.24           | <b>SKA-2</b> |
| Date 05.09.2013                     |              |
| Drawn by CD                         |              |
| Checked by JS                       |              |
| Scale 1/16" = 1'-0"                 |              |

| REVISION SCHEDULE |            |
|-------------------|------------|
| REVISION          | DATE       |
| ADDENDUM 1        | 05.09.2013 |

TITLE: SCHEDULES  
 FILE NAME:  
 AUTHOR: CD  
 REVISIONS: 1  
 05.09.2013  
 CHECKED: JS

- ### GENERAL FINISH NOTES
- EXISTING FINISHES (WALLS, BASE, & FLOOR) TO BE PROTECTED AT ALL TIMES DURING WORK.
  - ALL WALL PAINT TO BE HIGH PERFORMANCE ARCHITECTURAL LATEX WITH EG-SHIEL FINISH. ONE COAT LATEX PRIMER/SEALER WITH TWO LATEX FINISH COATS. DOOR FRAME PAINT TO BE HIGH PERFORMANCE ACRYLIC WITH SEMI-GLOSS FINISH.
  - PATCH/PAINT ALL HOLES & WALL DAMAGE FROM REMOVED WALL-HUNG OBJECTS.
  - ALL PATCHED WALLS & NEW WALLS ARE TO RECEIVE PRIMER AND MINIMUM OF TWO FINISH PAINT COATS.
  - PROTECT EXISTING CEILING GRID TILES AT ALL TIMES DURING WORK.
  - TURN OVER ALL USABLE EXCESS MATERIALS TO BUILDING MANAGER.
  - REMOVE ALL EXISTING FLOOR FINISHES IN AREA OF WORK.
  - CORNER GAUARDS AT ALL OUTSIDE CORNERS EXCEPT OFFICES.

- ### DOOR, FRAME, & HARDWARE NOTES
- REUSE DOOR LOCKSETS ONLY, EXCEPT AS NOTED.
  - IN LOCATIONS WHERE IT IS NOT POSSIBLE TO REUSE EXISTING DOORS, DOOR FRAMES, AND DOOR HARDWARE, THESE ITEMS MAY BE AVAILABLE FROM BUILDING STORAGE; COORDINATE WITH BUILDING MANAGER.
  - COORDINATE NEW KEYING WITH BUILDING MANAGER.
  - ALL DOORS TO HAVE THREE (3) BUTT HINGES.
  - PATCH AND REPAIR ALL NEW AND EXISTING DOOR FRAME FINISHES WITH FINISH TO MATCH EXISTING.
  - DOOR OPENING FORCE NOT TO EXCEED 5 POUNDS FOR ALL DOORS.
  - ALL DOOR FRAMES TO BE PAINTED PT-1 UNLESS NOTED OTHERWISE.

- ### HARDWARE GROUPS
- SET 01-SECURE PRIVACY  
 - SOUND HINGE SET  
 - LOCK SET  
 - CLOSER  
 - O.H. DOOR STOP  
 - ACOUSTIC AUTOMATIC DOOR BOTTOM
- SET 02-PRIVACY  
 - SOUND HINGE SET  
 - WALL STOP  
 - LOCK SET  
 - ACOUSTIC AUTOMATIC DOOR BOTTOM
- SET 03-STANDARD  
 - HINGE SET  
 - LEVER, BOTH SIDES  
 - WALL STOP
- SET 04-SECURE  
 - HINGE SET  
 - O.H. DOOR STOP  
 - LOCK SET  
 - CLOSER
- SET 05-CLOSET (BIFOLD)  
 - TRACK WITH HANGER AND GUIDE  
 - 2X HINGE SET  
 - KNOB
- SET 06-SECURE STORAGE  
 - HINGE SET  
 - O.H. DOOR STOP  
 - LOCK SET  
 - DEAD BOLT  
 - CLOSER

| ROOM SCHEDULE |                   |       |       |           |         |                |          |
|---------------|-------------------|-------|-------|-----------|---------|----------------|----------|
| NO.           | NAME              | BASE  | FLOOR | WALL      | CEILING | CEILING HEIGHT | COMMENTS |
| 200           | CORRIDOR          | EXIST | EXIST | EXIST     | EXIST   |                |          |
| 201           | CORRIDOR          | RB-1  | CPT-1 | PT-1      | ACT-2   | 8' - 10"       | 1        |
| 202           | CONFERENCE ROOM   | RB-1  | CPT-2 | PT-1/PT-3 | ACT-1   | 8' - 10"       | 4        |
| 203           | RECEPTION         | RB-1  | CPT-2 | PT-1      | ACT-1   | 8' - 10"       |          |
| 204           | GOVERNOR'S SUITE  | RB-1  | CPT-2 | PT-1      | ACT-1   | 8' - 10"       |          |
| 205           | VISITING STAFF    | RB-1  | CPT-2 | PT-1      | ACT-1   | 8' - 10"       |          |
| 206           | GOVERNOR'S OFFICE | RB-1  | CPT-2 | PT-1      | ACT-1   | 8' - 10"       |          |
| 207           | SMALL CONFERENCE  | RB-1  | CPT-2 | PT-1/PT-2 | ACT-1   | 8' - 10"       | 3        |
| 208           | COPY              | RB-1  | CPT-2 | PT-1      | ACT-1   | 8' - 10"       |          |
| 209           | BREAK             | RB-1  | LIN-2 | PT-1      | ACT-1   | 8' - 10"       |          |
| 210           | TOILET            | -     | LIN-1 | PT-1/PL-1 | GWB     | 8' - 10"       | 2        |
| 211           | STAIR             | -     | EXIST | EXIST     | EXIST   |                |          |
| 212           | ELECTIONS         | RB-1  | CPT-1 | PT-1      | ACT-1   | 8' - 10"       |          |
| 213           | DIRECTOR          | RB-1  | CPT-1 | PT-1      | ACT-1   | 8' - 10"       |          |
| 214           | SECURE STORAGE    | RB-1  | CPT-1 | PT-1      | ACT-1   | 8' - 10"       |          |
| 215           | DOL               | RB-1  | CPT-1 | PT-1      | ACT-1   | 8' - 10"       |          |

### ROOM FINISH LEGEND

| ABBREVIATION | TYPE                   | SPECIFICATION                            |
|--------------|------------------------|--|
| RB-1         | RUBBER BASE            | ROPPE                                    |
| CPT-1        | CARPET TILE            | BIGELOW; FIRST ONE UP                    |
| CPT-2        | CARPET TILE            | BIGELOW; FIRST ONE UP                    |
| PT-1         | PAINT                  | SHERWIN WILLIAMS                         |
| PT-2         | ACCENT PAINT           | SHERWIN WILLIAMS                         |
| PT-3         | ACCENT PAINT           | SHERWIN WILLIAMS                         |
| ACT-1        | ACT                    | ARMSTRONG FISSURED 2' X 4'               |
| ACT-2        | ACT                    | ARMSTRONG CORTEGA SECOND LOOK II 2' X 4' |
| GWB          | GWB                    | PAINTED GWB CEILING-COLOR: PT-1          |
| LIN-1        | LINOLEUM SHEET         | FORBO MCS                                |
| LIN-2        | LINOLEUM TILE          | FORBO MCT                                |
| PL-1         | PLASTIC LAMINATE       | FORMICA TRIM-SCHLUTER-QUADEC OR EQUAL    |
| SSM-1        | SOLID SURFACE MATERIAL | FORMICA 1/2" THICK                       |

### RESTROOM ACCESSORIES

|        |   |               |   |
|--------|---|---------------|---|
| MIRROR | MFG-GATCO<br>STYLE-MAX<br>SIZE-23.5" X 31.5"<br>FINISH-SATIN NICKEL | TISSUE HOLDER | MFG-GATCO<br>STYLE-MAX<br>FINISH-SATIN NICKEL |
|--------|---|---------------|---|

### ROOM FINISH COMMENTS

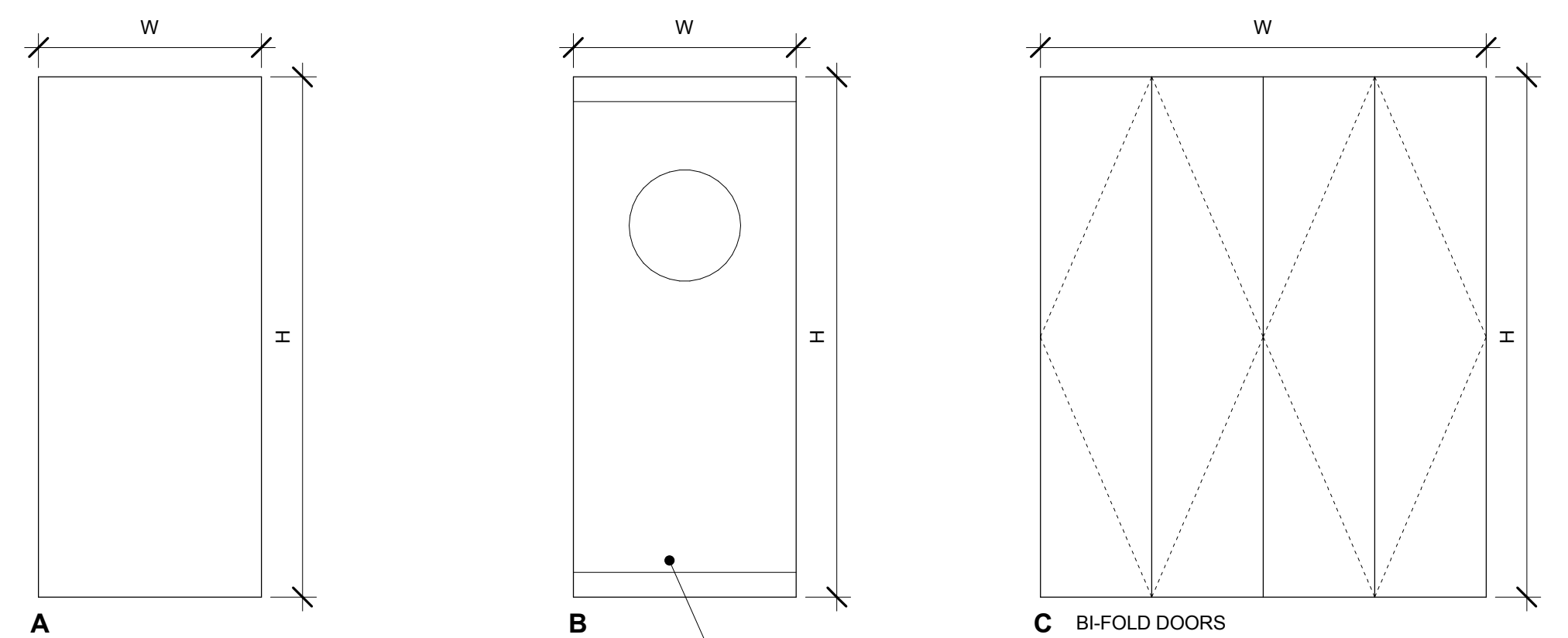
- RETAIN EXISTING FINISHES-MATCH EXISTING
- GOVE LIN-1 UP WALL 4"
- WEST WALL TO BE PT-2
- WEST WALL TO BE PT-3

### DOOR SCHEDULE

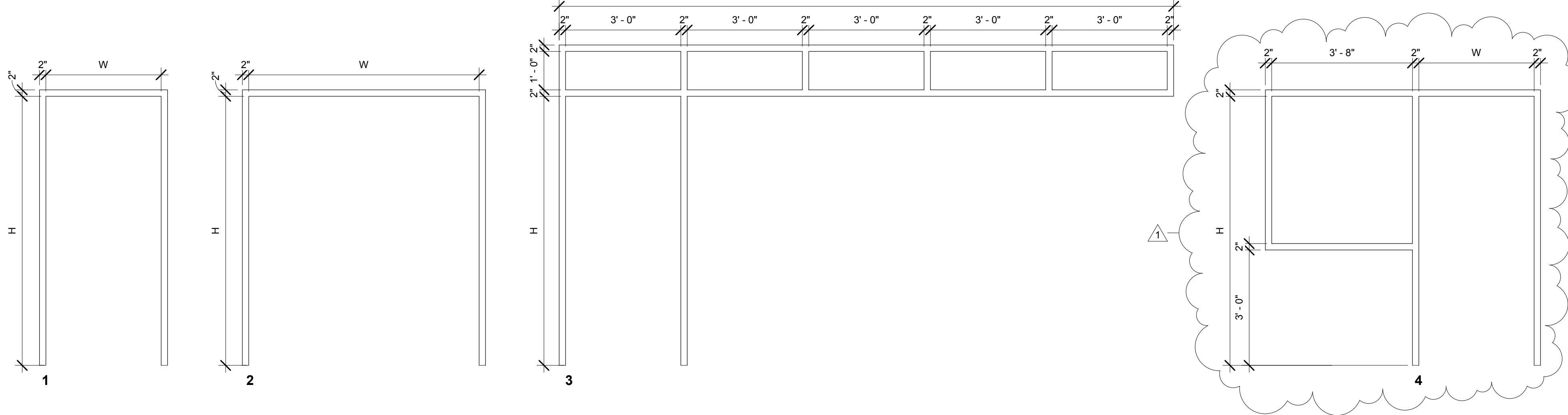
| MARK | TYPE | HEIGHT  | WIDTH   | THICK       | MATERIAL | FRAME TYPE | FIRE RATING | FRAME MATERIAL | HARDWARE GROUP | COMMENTS |
|------|------|---------|---------|-------------|----------|------------|-------------|----------------|----------------|----------|
| 202  | A    | 7' - 0" | 3' - 0" | 0' - 1 3/4" | WD       | 1          | 1 HR        | ALUM           | 01             | 1,3      |
| 202A | A    | 7' - 0" | 3' - 0" | 0' - 1 3/4" | WD       | 1          |             | ALUM           | 01             | 1,3      |
| 203  | B    | 7' - 0" | 3' - 0" | 0' - 1 3/4" | GLASS    | 1          |             | ALUM           | 04             |          |
| 204  | A    | 7' - 0" | 3' - 0" | 0' - 1 3/4" | WD       | 1          | 1 HR        | ALUM           | 01             |          |
| 204A | C    | 7' - 0" | 6' - 0" | 0' - 1 1/2" | WD       | 2          |             | ALUM           | 05             |          |
| 205  | A    | 7' - 0" | 3' - 0" | 0' - 1 3/4" | WD       | 1          |             | ALUM           | 03             |          |
| 206  | A    | 7' - 0" | 3' - 0" | 0' - 1 3/4" | WD       | 1          |             | ALUM           | 02             | 1        |
| 206A | C    | 7' - 0" | 6' - 0" | 0' - 1 1/2" | WD       | 2          |             | ALUM           | 05             |          |
| 207  | A    | 7' - 0" | 3' - 0" | 0' - 1 3/4" | WD       | 3          |             | ALUM           | 02             | 1        |
| 210  | A    | 7' - 0" | 3' - 0" | 0' - 1 3/4" | WD       | 1          |             | ALUM           | 02             |          |
| 211  | A    | 7' - 0" | 3' - 0" | 0' - 1 3/4" | WD       | 1          |             | ALUM           | 01             |          |
| 211A | A    | 7' - 0" | 3' - 0" | 0' - 1 3/4" | WD       | 1          |             | ALUM           | 01             |          |
| 212  | A    | 7' - 0" | 3' - 0" | 0' - 1 3/4" | WD       | 1          | 1HR         | ALUM           | EXISTING       | 2        |
| 213  | A    | 7' - 0" | 3' - 0" | 0' - 1 3/4" | WD       | 4          |             | ALUM           | 03             | 4        |
| 214  | A    | 7' - 0" | 3' - 0" | 0' - 1 3/4" | WD       | 1          |             | ALUM           | 06             | 4        |

- ### COMMENTS
- USE WELDED FRAME, FILL FRAME WITH ACOUSTIC INSULATION AND ACOUSTICALLY SEAL JOINTS
  - REUSE EXISTING CORRIDOR DOOR, FRAME, AND HARDWARE
  - PORTION OF FRAME INSIDE ROOM 202 TO BE PT-3 PAINT
  - REUSE EXISTING DEADBOLT RETAINED BY BUILDING MANAGEMENT

### DOOR TYPES



### FRAME TYPES



**ELECTRICAL SPECIFICATIONS**

**ELECTRICAL SPECIFICATIONS**

- 1) PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR COMPLETE, SAFE WORKABLE ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS. COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND APPLICABLE LOCAL, STATE AND NATIONAL CODES AND STANDARDS.
- 2) MATERIALS SHALL BE NEW, FULL WEIGHT, AMERICAN MADE AND BEAR THE UL LABEL.
- 3) USE THE DRAWINGS AS A GUIDE FOR QUANTITY, APPROXIMATE EQUIPMENT LOCATIONS AND DESIGN CRITERIA. COORDINATE WORK WITH OTHER TRADES AND ARCHITECTURAL FEATURES TO PROVIDE SYMMETRICAL APPEARANCE. IMMEDIATELY NOTIFY THE OWNER IN WRITING SHOULD CLARIFICATION BE REQUIRED DUE TO A CONFLICT OF QUANTITY, COORDINATION, LOCATION, ETC. THE OWNER'S DECISION IS FINAL AND BINDING. EXTRA COSTS INVOLVED TO COMPLY WITH THE SPECIFICATIONS AND DRAWINGS CAUSED BY A CONFLICT NOT BROUGHT TO THE ATTENTION OF THE OWNER IMMEDIATELY UPON DISCOVERY SHALL BE BORNE BY THE ELECTRICAL CONTRACTOR UNLESS EXTRA COST IS APPROVED IN WRITING.
- 4) CONDUCT A SITE VISIT PRIOR TO SUBMISSION OF BID AND EXAMINE DRAWINGS AND SPECIFICATIONS FOR DISCREPANCIES BETWEEN THIS AND OTHER DIVISIONS OF THE WORK AND THE SITE. REPORT IN WRITING FIVE WORKING DAYS PRIOR TO BID OPENING ANY DISCREPANCIES WHICH THE CONTRACTOR BELIEVES ARE CONTRARY TO CODE OR THAT WILL NOT FUNCTION AS SHOWN. IF NONE ARE REPORTED IT IS ASSUMED THAT THE ABOVE CONDITIONS HAVE BEEN MET AND THE CONTRACTOR WILL BE RESPONSIBLE FOR A COMPLETE INSTALLATION WITH NO ADDITIONAL COST TO THE OWNER.
- 5) OBTAIN AND PAY FOR ALL PERMITS AND REQUIRED INSPECTIONS.
- 6) EMPLOY WORKMEN SKILLED IN THE TRADE AND FAMILIAR WITH TECHNIQUES REQUIRED TO COMPLETE THE WORK IN A NEAT AND WORKMANLIKE MANNER. WORKMANSHIP IS SUBJECT TO APPROVAL BY THE OWNER.
- 7) FURNISH A ONE YEAR GUARANTEE FOR ALL ELECTRICAL MATERIALS AND LABOR. GUARANTEE SHALL COMMENCE AT FINAL PAYMENT. MAKE ALL NECESSARY REPAIRS IN A TIMELY MANNER AT NO COST TO THE OWNER.
- 8) WIRING SHALL BE COPPER, 10HW, THHN/THWN INSULATION MINIMUM MINIMUM WIRE SIZE #12 AWG. ALL CONDUCTORS USED ON THIS PROJECT SHALL BE COPPER, SOLID OR STRANDED FOR WIRING #10 OR SMALLER, STRANDED FOR #8 OR LARGER.
- 9) WIRING SHALL BE IN METAL RACEWAYS. PROVIDE PROPERLY SIZED AND BONDED GROUNDING CONDUCTORS WITH POWER CIRCUITS.
- 10) FEEDERS ARE SIZED FOR AMPACITY ONLY. THE CONTRACTOR SHALL INCREASE FEEDER SIZES IF REQUIRED TO PREVENT FEEDER VOLTAGE DROP FROM EXCEEDING 3%. VOLTAGE DROP AT OUTLETS SHALL NOT EXCEED 5%.
- 11) WIRING DEVICES SHALL BE SPECIFICATION GRADE. COLOR SELECTED BY THE DEPARTMENT. FOR NON DEDICATED CIRCUITS, CONNECT A MAXIMUM OF FOUR DUPLEX RECEPTACLES TO A SINGLE CIRCUIT.
- 12) FURNISH NEATLY TYPED, FULLY DETAILED BRANCH CIRCUIT DIRECTORY IN PANEL. ODD CIRCUITS ON LEFT, EVEN ON RIGHT.
- 13) LIGHTING FIXTURES SHALL COMPLY WITH THE REQUIREMENTS OF N.E.C. ARTICLE 410. PROVIDE SAFETY HANGAR WIRES FOR FIXTURES, AS FOLLOWS:
  - a) PROVIDE SAFETY WIRES (A MINIMUM OF TWO 12 GAUGE HANGERS) OR EQUIVALENT CHAINS FOR EACH LIGHT FIXTURE WEIGHING LESS THAN 56 POUNDS INSTALLED IN T-BAR OR OTHER CEILING SUSPENSION SYSTEMS. SAFETY WIRES AND CHAINS SHALL BE SECURELY ATTACHED TO DIAGONALLY OPPOSITE CORNERS OF EACH FIXTURE AND TO STRUCTURE. FIXTURES WEIGHING 56 POUNDS OR MORE SHALL BE SUPPORTED FROM STRUCTURE.
  - b) SURFACE MOUNTED LIGHTING FIXTURES SUPPORTED FROM T-BAR GRID SHALL BE ATTACHED TO THE GRID WITH A POSITIVE CLAMP DEVICE THAT COMPLETELY SURROUNDS THE SUPPORTING MEMBER SIMILAR TO CADDY "DS". PROVIDE SAFETY WIRES AS SPECIFIED IN THE FOREGOING.
  - c) PROVIDE SAFETY WIRES (A MINIMUM OF TWO 12 GAUGE HANGERS) OR EQUIVALENT AIRCRAFT CABLE FOR EACH PENDANT MOUNTED FIXTURE. HANGARS OR CABLE SHALL BE SECURELY ATTACHED TO FIXTURE, THEN ROUTED THROUGH STEM AND SECURELY ATTACHED TO STRUCTURE.
- 14) FLUORESCENT LAMPS SHALL BE PREMIUM ENERGY SAVING TYPE, CRI = 80 OR BETTER, COLOR TEMPERATURE = 4100K. ALL BALLASTS SHALL BE ELECTRONIC WITH THD <10%.
- 15) THE TELECOMMUNICATION INSTALLATION FOR THIS PROJECT SHALL COMPLY WITH THE STATE OF ALASKA DEPARTMENT OF ADMINISTRATION STANDARDS FOR LEASED SPACES.
- 16) TELECOMMUNICATIONS OUTLETS SHALL HAVE THE FOLLOWING MINIMUM FEATURES:
  - a) BE PROVIDED COMPLETE WITH BOXES, BOX MUD RINGS, RACEWAYS, BUSHINGS, AND UNTERMINATED CABLES WITH SLACK AT BOTH ENDS. AT HEAD END, PROVIDE ADEQUATE SLACK FOR TERMINATION.
  - b) BOXES SHALL BE MINIMUM 4-11/16" SQ BY 2-1/8" DEEP.
  - c) RACEWAYS SHALL BE MINIMUM 1" EMT.
  - d) RACEWAY STUBS AND SLEEVES SHALL BE EQUIPPED WITH INSULATING BUSHINGS.
  - e) RACEWAYS SHALL BE PROVIDED INSIDE WALLS AND FOR TRANSITION FROM ABOVE CEILING TO THE HEAD END EQUIPMENT. ALL RACEWAYS SHALL BE PROPERLY FIRESTOPPED. OPEN PLENUM-RATED CABLE SHALL BE PROVIDED ABOVE THE CEILING. SUPPORT OPEN CABLES IN "J" HOOKS.
  - f) CABLES SHALL BE 4-PAIR CATEGORY 5e, PLENUM RATED. QUANTITIES AS SHOWN ON THE PLANS. NO FACTORY OR OTHER SPLICES ARE ALLOWED.
  - g) THE INSTALLER OF THE TELECOM CABLES AND RACEWAYS SHALL HAVE AT LEAST FIVE (FIVE) YEARS EXPERIENCE WITH SIMILAR INSTALLATIONS.
  - h) ALL WORK SHALL COMPLY WITH APPLICABLE ANSI/TIA/EIA AND BICSI STANDARDS, SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS, AND SHALL BE ACCEPTABLE TO THE DATA SYSTEM AND THE TELEPHONE SYSTEM PROVIDERS.
  - i) TERMINATE DIRECTLY AT PATCH PANEL(S).

**17) DEMOLITION**

a) EXAMINATION: DRAWINGS INVOLVING EXISTING CONDITIONS ARE BASED ON BUILDING RECORD DRAWINGS AND/OR LIMITED FIELD OBSERVATION. CONDUCT A SITE INSPECTION PRIOR TO SUBMISSION OF BID TO BECOME THOROUGHLY FAMILIARIZED WITH THE SCOPE OF WORK. REPORT DISCREPANCIES TO OWNER BEFORE DISTURBING EXISTING INSTALLATION. VERIFY FIELD MEASUREMENTS AND CIRCUITING ARRANGEMENTS. VERIFY THAT ABANDONED WIRING AND EQUIPMENT SERVE ONLY ABANDONED FACILITIES. BEGINNING OF DEMOLITION IMPLIES CONTRACTOR ACCEPTS EXISTING CONDITIONS.

**18) PREPARATION**

- a) DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL.
- b) COORDINATE UTILITY SERVICE OUTAGES WITH UTILITY COMPANY AND CONTRACTING AGENCY.
- c) PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS.
- d) EXISTING ELECTRICAL SERVICE: MAINTAIN EXISTING SYSTEMS IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR SERVICE. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER AT LEAST 24 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. CONTRACTOR SHALL NOT BE ENTITLED TO ANY ADDITIONAL COMPENSATION DUE TO INABILITY OF OWNER TO GRANT AN OUTAGE AT THE DESIRED TIME. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA.

**19) FIRE ALARM SYSTEM**

- a) EXISTING FIRE ALARM SYSTEM: MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS ACCEPTED. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. NOTIFY OWNER AND APPLICABLE FIRE DEPARTMENT AUTHORITIES AT LEAST 24 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA.
- b) PROVIDE, REMOVE OR RELOCATE EXISTING FIRE ALARM DEVICES AS SHOWN ON THE PLANS. NEW DEVICES SHALL BE IDENTICAL TO EXISTING SIMILAR DEVICES AND UL LISTED WITH THE EXISTING FIRE ALARM SYSTEM.
- c) IDENTIFY FIRE ALARM CONDUIT AND BOXES WITH RED PAINT.
- d) PROVIDE REQUIRED EQUIPMENT, CARDS, PROGRAMMING, BATTERIES, ETC. AT THE EXISTING FIRE ALARM SYSTEM CONTROL PANEL(S) AND THE REMOTE SYSTEM FRONT END TERMINALS TO SUPPORT REVISED FIRE ALARM SYSTEM. SUBMIT BATTERY CALCULATIONS FOR REVISED SYSTEM. FIRE ALARM WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 72.
- e) PERFORM REACCEPTANCE TESTING OF THE FIRE ALARM SYSTEM IN ACCORDANCE WITH NFPA 72, CHAPTER 7. COORDINATE TESTING WITH THE OWNER. PROVIDE A MINIMUM OF 72 HOURS NOTICE. CONTRACTOR SHALL NOT BE ENTITLED TO ANY ADDITIONAL COMPENSATION DUE TO INABILITY OF OWNER TO SCHEDULE TEST AT THE DESIRED TIME. SUBMIT FINAL TEST RESULTS.

**20) DEMOLITION OF EXISTING ELECTRICAL WORK**

- a) REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
- b) REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY.
- c) REMOVE EXPOSED ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. CUT CONCEALED CONDUIT FLUSH WITH WALLS AND FLOORS, AND PATCH SURFACES.
- d) DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVICING THEM IS ABANDONED AND REMOVED. PROVIDE BLANK COVER FOR ABANDONED OUTLETS WHICH ARE NOT REMOVED. IN FINISHED AREAS, BLANK COVERS SHALL BE BLANK PLATES MATCHING THE DEVICE PLATES SPECIFIED FOR NEW WORK, UNLESS OTHERWISE NOTED OR SPECIFIED.
- e) DISCONNECT AND REMOVE ELECTRICAL DEVICES AND EQUIPMENT SERVING UTILIZATION EQUIPMENT THAT HAS BEEN REMOVED.
- f) DISCONNECT AND REMOVE ABANDONED LUMINAIRES. REMOVE BRACKETS, STEMS, HANGERS, AND OTHER ACCESSORIES.
- g) REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK.
- h) MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANELS AS APPROPRIATE.
- i) RESTORE CIRCUITS AND SYSTEMS THAT REMAIN THAT ARE AFFECTED IN ANY WAY BY DEMOLITION WORK SUCH AS LOADS DOWNSTREAM OF DEMOLISHED EQUIPMENT, SWITCHED LIGHTING CIRCUITS WHERE SELECTED LIGHT FIXTURES ARE DEMOLISHED, ETC.
- j) SALVAGE OR DISPOSAL OF REMOVED ITEMS SHALL BE AS NOTED ON THE DRAWINGS OR AS DIRECTED BY THE CONTRACTING AGENCY. ITEMS WHICH THE OWNER DOES NOT DESIRE TO RETAIN SHALL BE DISPOSED OF AT A LEGAL DISPOSAL SITE.

**21) CLEANING AND REPAIR**

- a) CLEAN AND REPAIR EXISTING MATERIALS AND EQUIPMENT WHICH REMAIN OR ARE TO BE REUSED OR ARE AFFECTED BY THIS WORK.
- b) MODIFICATIONS TO SPECIAL SYSTEMS (I.E., INTERCOM, PUBLIC ADDRESS) SHALL BE CERTIFIED AND THE SYSTEM PERFORMANCE SHALL BE CERTIFIED TO BE EQUAL OR BETTER TO PERFORMANCE PRIOR TO CONSTRUCTION BY THE SYSTEM MANUFACTURER'S AUTHORIZED REPAIR/SERVICE PERSONNEL.

**22) PANELBOARDS**

a) THE BASIS OF DESIGN IS EQUIPMENT FROM SQUARE D COMPANY TO SET A STANDARD FOR QUALITY. EQUIPMENT FROM CUTLER-HAMMER, SIEMENS ENERGY & AUTOMATION, GEFRA, FLETCHER, OR ALTERNATIVE SYSTEMS WILL BE CONSIDERED PROVIDED THAT

c) THE PANELBOARD INTERIOR ASSEMBLY SHALL BE DEAD FRONT WITH PANELBOARD FRONT REMOVED.

d) PANELBOARD BUS STRUCTURE AND MAIN LUGS SHALL HAVE CURRENT RATINGS AS SHOWN ON THE PANELBOARD SCHEDULE. BUS STRUCTURE SHALL ALLOW 1 AND/OR 2 POLE BREAKERS OF VARIOUS FRAME SIZES TO BE MOUNTED IN ANY LOCATION AND IN ANY COMBINATION UP TO THE CAPABILITY OF THE PANEL.

e) EACH PANELBOARD, AS A COMPLETE UNIT, SHALL HAVE A SHORT CIRCUIT CURRENT RATINGS (SCCR) EQUAL TO OR GREATER THAN 10,000 AMPS AT 240 VOLTS, AND 14,000 AMPS AT 480 VOLTS.

f) BRANCH CIRCUIT BREAKERS SHALL BE AS NOTED IN PANEL SCHEDULES.

g) PANELBOARD SHALL BE EQUIPPED WITH AN INSULATED NEUTRAL TERMINAL BAR.

h) PANELBOARD SHALL BE EQUIPPED WITH AN EQUIPMENT GROUNDING TERMINAL BAR TO TERMINATE EQUIPMENT GROUNDING CONDUCTORS.

i) PROVIDE PANELBOARD WITH INTEGRAL SPD DEVICES.

j) INTEGRAL SPD DEVICES SHALL BE FACTORY INSTALLED IN THE PANELBOARD.

k) VERIFY MOUNTING ARRANGEMENTS FOR EACH LOCATION SHOWN ON THE PLANS. WHERE CABINETS ARE RECESSED, VERIFY ADEQUATE THICKNESS OF WALL AND MAKE ARRANGEMENTS FOR FURRING OR TRIM AS REQUIRED. IN GENERAL, ALL CONDUITS SHALL ENTER THE TOP OR BOTTOM OF PANEL.


**23) OVERCURRENT PROTECTIVE DEVICES**

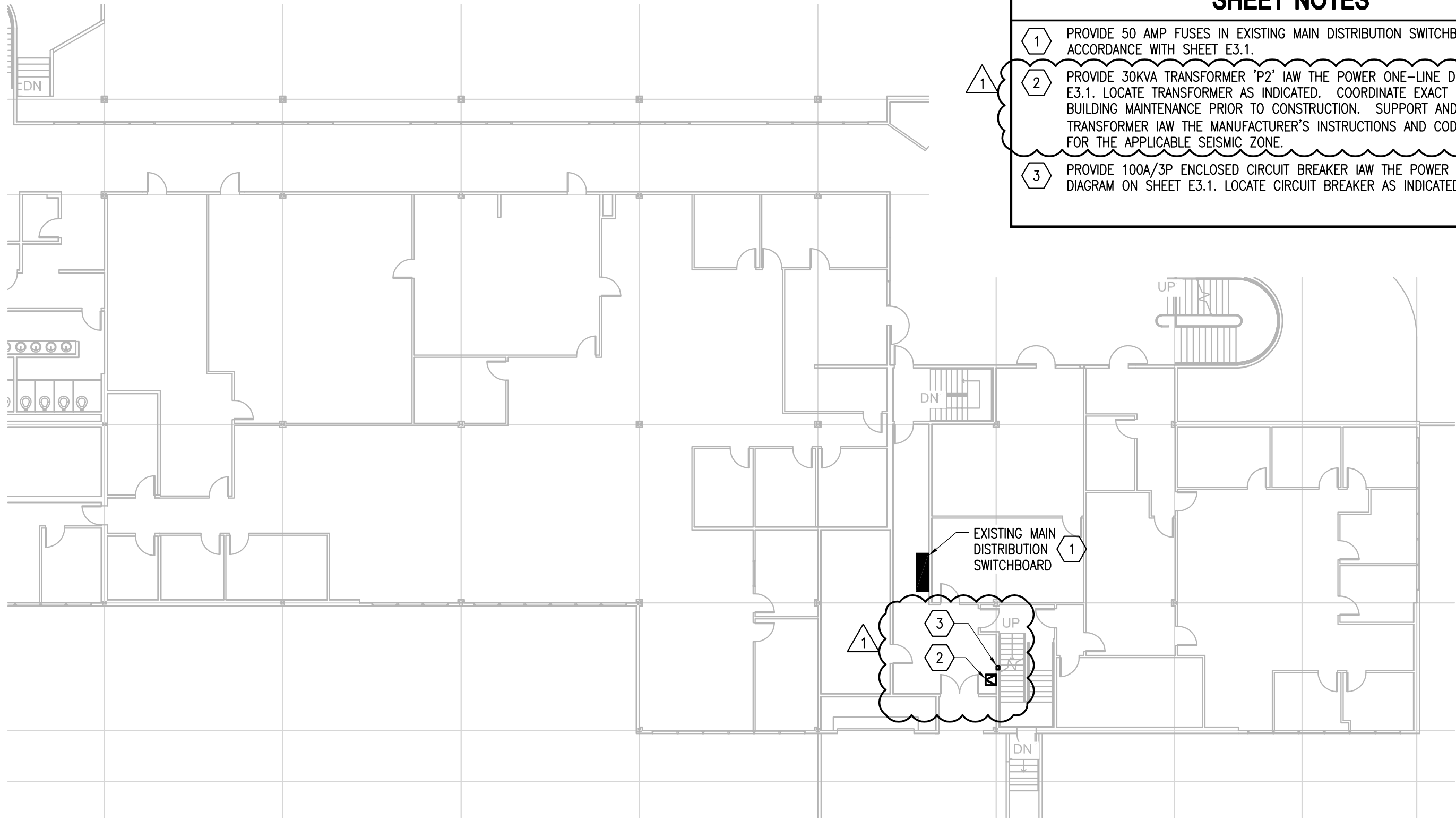
- a) CIRCUIT PROTECTIVE DEVICES SHALL BE MOLDED CASE CIRCUIT BREAKERS SAME MANUFACTURER AS PANELBOARD. RATINGS SHALL BE AS SHOWN ON PANEL SCHEDULES AND/OR DRAWINGS.
- b) CIRCUIT BREAKERS SHALL HAVE A PERMANENT TRIP UNIT CONTAINING INDIVIDUAL THERMAL AND MAGNETIC TRIP ELEMENTS IN EACH POLE.

**24) PANELBOARD SURGE PROTECTIVE DEVICE (SPD)**

- a) THE SPD SHALL HAVE A WARRANTY PERIOD OF FIVE YEARS, INCORPORATING UNLIMITED REPLACEMENTS OF SUPPRESSOR PARTS IF THEY ARE DESTROYED BY TRANSIENTS DURING THE WARRANTY PERIOD.
- b) ACCEPTABLE MANUFACTURERS INCLUDE: ADVANCED PROTECTION TECHNOLOGIES, LIEBERT, CURRENT TECHNOLOGY, OR APPROVED EQUAL. THE MANUFACTURER SHALL BE REGULARLY ENGAGED IN THE MANUFACTURE OF SPD DEVICES FOR ANSI C82.41 B AND C EXPOSURE CATEGORIES FOR AT LEAST FIVE YEARS. NOTE SPECIFIC PRODUCTS ARE SUBJECT TO APPROVAL.
- c) WHERE SPD DEVICES ARE SPECIFIED AS AN INTEGRAL PART OF DISTRIBUTION EQUIPMENT, THE MANUFACTURER OF THE SPD DEVICE SHALL BE PARTNERED WITH THE DISTRIBUTION EQUIPMENT MANUFACTURER IN PROVIDING A UL LISTED DEVICE.
- d) SPD SHALL BE COMPATIBLE WITH THE ELECTRICAL SYSTEM VOLTAGE, CURRENT, CONFIGURATION AND INTENDED APPLICATION.
- e) SPD SHALL BE PARALLEL IN DESIGN.
- f) SPD SHALL BE MODULAR IN DESIGN. EACH SUPPRESSION ELEMENT SHALL BE A USER REPLACEABLE SURGE CURRENT DIVERSION MODULE (MOV BASED). EACH SURGE CURRENT DIVERSION MODULE SHALL BE FUSED WITH 200,000 AIR RATED FUSES.
- g) SPD SHALL HAVE A MAXIMUM CONTINUOUS OPERATION VOLTAGE (MCOV) NOT LESS THAN 115% OF THE NOMINAL RMS VOLTAGE CONTINUOUSLY WITHOUT DEGRADATION. FOR EXAMPLE, DEVICES THAT USE 130V MOV'S FOR 120V SYSTEMS ARE NOT ACCEPTABLE.
- h) SPD SHALL HAVE A MINIMUM EMI/RFI FILTERING OF -50DB AT 100KHZ WITH AN INSERTION RATIO OF 50:1 USING MIL STD. 220A METHODOLOGY.
- i) SPD SHALL PROVIDE BOTH VISUAL AND AUDIBLE INDICATION OF PROPERLY PERFORMING PROTECTION FOR EACH PHASE.
- j) SPD SHALL PROVIDE FULL CYCLE TRACKING CIRCUITRY TO PROVIDE TIGHT TRANSIENT CLAMPING REGARDLESS OF THE TRANSIENT POSITION ON THE SINE WAVE.
- k) SPD MODULES SHALL BE FUSED AND SPD SHALL BE CAPABLE OF SAFELY INTERRUPTING THE POWER SYSTEM'S AVAILABLE FAULT CURRENT.
- l) SPD SHALL INCORPORATE A LOW IMPEDANCE SURGE DIVERSION PLATFORM FOR THE SURGE CURRENT PATH. THE SURGE CURRENT SHALL BE SYMMETRICALLY DISBURSED TO ALL SUPPRESSION ELEMENTS TO INSURE EQUAL STRESSING AND MAXIMUM PERFORMANCE OF THE SUPPRESSION ELEMENTS. THE SURGE DIVERSION PLATFORM SHALL PROVIDE EQUAL IMPEDANCE PATHS TO EACH SUPPRESSION ELEMENT FOR SHUNTING OF HIGH FREQUENCY SURGES. THE SURGE CURRENT DIVERSION MODULES SHALL BE BOLTED DIRECTLY TO THE PLATFORM TO INSURE RELIABLE LOW IMPEDANCE CONNECTIONS. SMALL GAUGE ROUND WIRING OR PLUG-IN CONNECTIONS SHALL NOT BE USED IN THE PATH FOR SURGE CURRENT DIVERSION.
- m) SPD SHALL BE TESTED AGAINST ANSI C82.41 CATEGORY B3 IMPULSE AND CATEGORY B3 RINGWAVE TRANSIENTS.
- n) SPD SHALL BE CAPABLE OF SURVIVING 5000 SEQUENTIAL ANSI C82.41 B3 IMPULSES, WITHOUT FAILURE OR DEGRADATION OF UL 1449 SUPPRESSED VOLTAGE RATING BY MORE THAN 10%.
- o) SPD SHALL HAVE A U.L. 1449 SUPPRESSED VOLTAGE RATING (SVR) OR CLAMP RATING AS FOLLOWS: 400 VOLTS (L-N AND N-G) FOR 120/208 VOLT SYSTEMS. SPD SHALL HAVE A MINIMUM SINGLE IMPULSE CURRENT RATING OF 180,000 AMPS PER PHASE.
- p) PROVIDE OVERCURRENT PROTECTION AND A MEANS OF DISCONNECT FOR THE SPD. OVERCURRENT AND DISCONNECT DEVICES SHALL BE EXCLUSIVELY UTILIZED FOR SPD. SIZE OVERCURRENT PROTECTION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- q) SPD SHALL BE COMPONENT RECOGNIZED IN ACCORDANCE WITH UL 1449, STANDARD FOR SAFETY, TRANSIENT VOLTAGE SURGE SUPPRESSORS.
- r) THE SPD DIAGNOSTIC MONITORING DEVICES SHALL BE MOUNTED ON THE FRONT OF THE DISTRIBUTION EQUIPMENT ENCLOSURE.

| PANEL SCHEDULE                             | NEMA | FLUSH MOUNTED |      |         |      |                     |      | PROVIDE SPD IN PANEL                            |
|--|------|---------------|------|---------|------|---------------------|------|---|
| 208Y/120 VOLTS, 3-PH, 225 AMP LUG          | 1    | 10K A.I.R.    |      |         |      |                     |      |   |
| CIRCUIT DESCRIPTION                        | KVA  | AMP           | POLE | ABC     | KVA  | AMP                 | POLE | CIRCUIT DESCRIPTION                             |
| REC - TOILET 210                           | 0.20 | 20            | 1    | 1+--2   | 1.59 | 25                  | 1    | FOOD WASTE DISPOSER (3/4 HP) - BREAK 209        |
| REC - COPIER - COPY 208 (DEDICATED)        | 1.20 | 20            | 1    | 3+--4   | 2.00 | 25                  | 1    | WATER HEATER WH-1 - BREAK 209                   |
| REC - COPY 208, BREAK 209                  | 0.72 | 20            | 1    | 5+--6   | 1.02 | 15                  | 1    | REC - WATER CLOSET PH-1H (2 HP, DEDICATED)      |
| REC - FRIDGE - BREAK 209 (DEDICATED)       | 1.00 | 20            | 1    | 7+--8   | 0.50 | 20                  | 1    | REMOTE DOOR LOCK - RECEPTION 203                |
| REC - ELECTIONS 212 SW, SECURE STORAGE 214 | 0.72 | 20            | 1    | 9+--10  | 0.20 | 20                  | 1    | FSD - RECEPTION 203                             |
| REC - ELECTIONS 212 SW                     | 0.72 | 20            | 1    | 11+--12 | 0.86 | 20                  | 1    | REC - UNDER SINK PUMP US-1 (1/3 HP) - BREAK 209 |
| REC - SMALL CONFERENCE 207                 | 0.90 | 20            | 1    | 13+--14 | 1.00 | 20                  | 1    | REC - DISHWASHER                                |
| REC - FLOOR - SMALL CONFERENCE 207         | 0.72 | 20            | 1    | 15+--16 | ---  | 20                  | 1    | SPARE   |
| REC - GOVERNOR'S OFFICE 206                | 0.90 | 20            | 1    | 17+--18 | ---  | 20                  | 1    | SPARE   |
| REC - GOVERNOR'S SUITE 204                 | 1.08 | 20            | 1    | 19+--20 | ---  | 20                  | 1    | SPARE   |
| REC - VISITING STAFF 205                   | 0.90 | 20            | 1    | 21+--22 | ---  | 20                  | 1    | SPARE   |
| REC - CONFERENCE ROOM 202                  | 0.90 | 20            | 1    | 23+--24 | ---  | 20                  | 1    | SPARE   |
| REC - CONFERENCE ROOM 202                  | 1.08 | 20            | 1    | 25+--26 | ---  | 20                  | 1    | SPARE   |
| REC - RECEPTION 203, CORRIDOR 201          | 0.72 | 20            | 1    | 27+--28 |      |                     |      | SPACE   |
| REC - ELECTIONS 212                        | 0.72 | 20            | 1    | 29+--30 |      |                     |      | SPACE   |
| REC - ELECTIONS 212                        | 0.90 | 20            | 1    | 31+--32 |      |                     |      | SPACE   |
| REC - DOL 215                              | 1.26 | 20            | 1    | 33+--34 |      |                     |      | SPACE   |
| REC - DOL 215                              | 1.44 | 20            | 1    | 35+--36 |      |                     |      | SPACE   |
| REC - DIRECTOR 213                         | 0.90 | 20            | 1    | 37+--38 |      |                     |      | SPACE   |
| REC - DOL 215                              | 1.08 | 20            | 1    | 39+--40 |      |                     |      | SPACE   |
| REC - BREAK 209                            | 0.18 | 20            | 1    | 41+--42 |      |                     |      | SPACE   |
| TOTAL CONNECTED LOADS - A                  |      |               |      | 9.1     | KVA  | 34 POLE SPACES USED |      |   |
| " - B                                      |      |               |      | 8.8     | "    |                     |      |   |
| " - C                                      |      |               |      | 7.5     | "    |                     |      |   |
| " - ALL                                    |      |               |      | 25.4    | "    | 71                  | AMPS | 208 VOLTS, 3-PHASE                              |
| TOTAL LOAD WITH NEC FACTORS                |      |               |      | 24.3    | "    | 67                  | AMPS |   |

|   |                                  |                |                           |              |
|---|----------------------------------|----------------|---------------------------|--------------|
|  <p>101 West Benson Blvd., Ste. 306<br/>Anchorage, AK 99503<br/>907.561.5543 p<br/>907.562.3213 f<br/>www.echyer.com</p> | <b>FROB BUILDING RENOVATIONS</b> |                | ADDENDUM #1               |              |
|   |                                  |                | E0.2                      |              |
|   |                                  |                | Project number 11-0013.24 |              |
|   |                                  |                | Date 05.09.2013           |              |
|   |                                  |                | Drawn by CHA              |              |
|   |                                  | Checked by KAC |                           | <b>SKE-1</b> |
|   |                                  | Scale          |                           | NONE         |

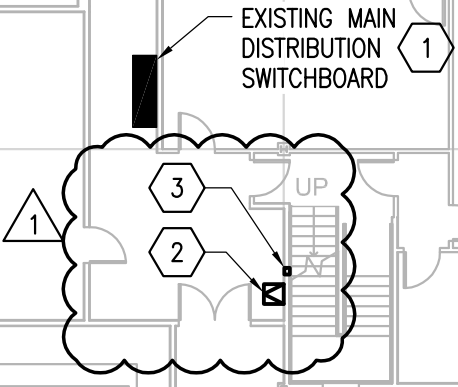


**SHEET NOTES**

1 PROVIDE 50 AMP FUSES IN EXISTING MAIN DISTRIBUTION SWITCHBOARD IN ACCORDANCE WITH SHEET E3.1.

2 PROVIDE 30KVA TRANSFORMER 'P2' IAW THE POWER ONE-LINE DIAGRAM ON SHEET E3.1. LOCATE TRANSFORMER AS INDICATED. COORDINATE EXACT LOCATION WITH BUILDING MAINTENANCE PRIOR TO CONSTRUCTION. SUPPORT AND BRACE TRANSFORMER IAW THE MANUFACTURER'S INSTRUCTIONS AND CODE REQUIREMENTS FOR THE APPLICABLE SEISMIC ZONE.

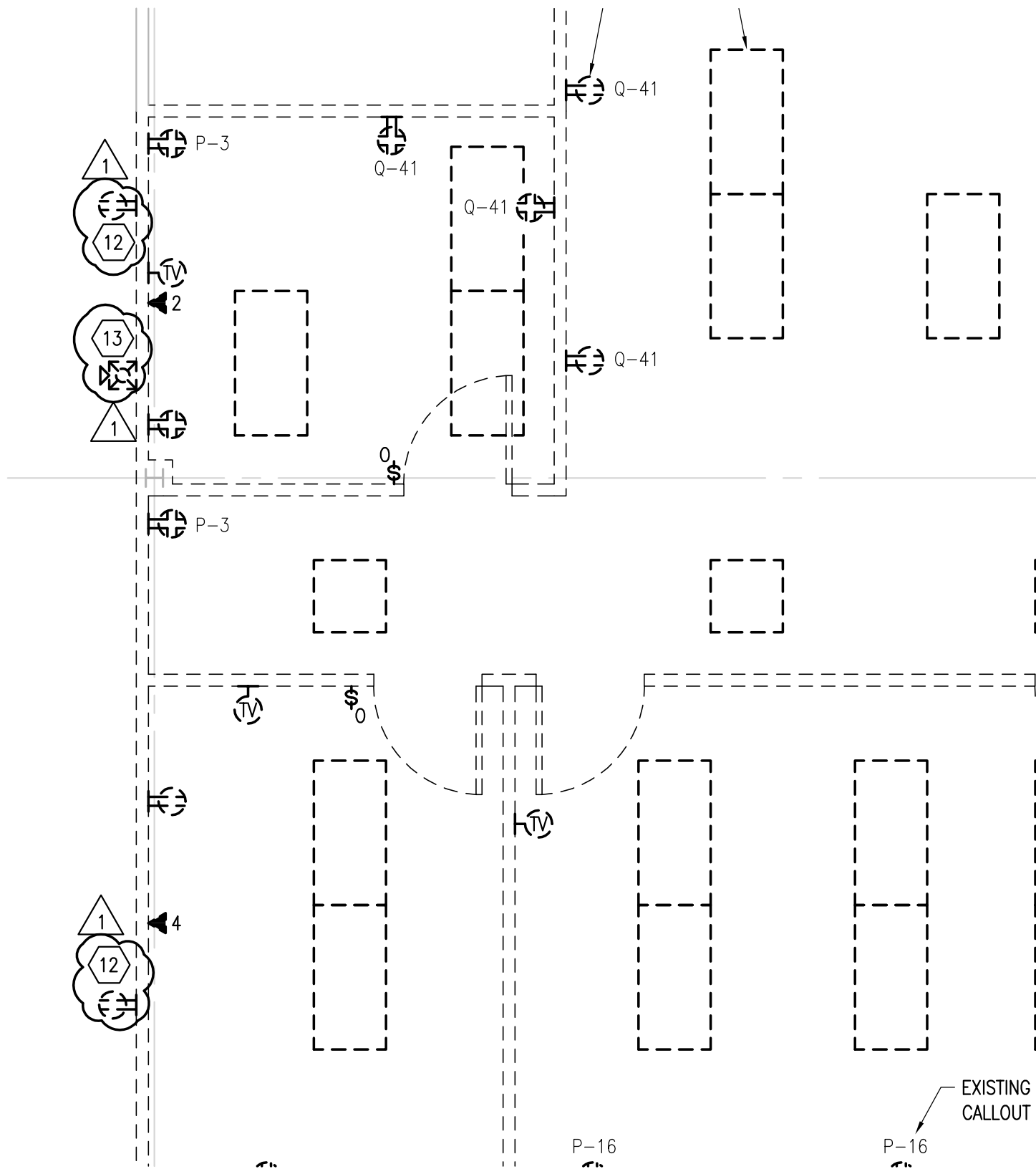
3 PROVIDE 100A/3P ENCLOSED CIRCUIT BREAKER IAW THE POWER ONE-LINE DIAGRAM ON SHEET E3.1. LOCATE CIRCUIT BREAKER AS INDICATED.




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**FROB BUILDING  
 RENOVATIONS**

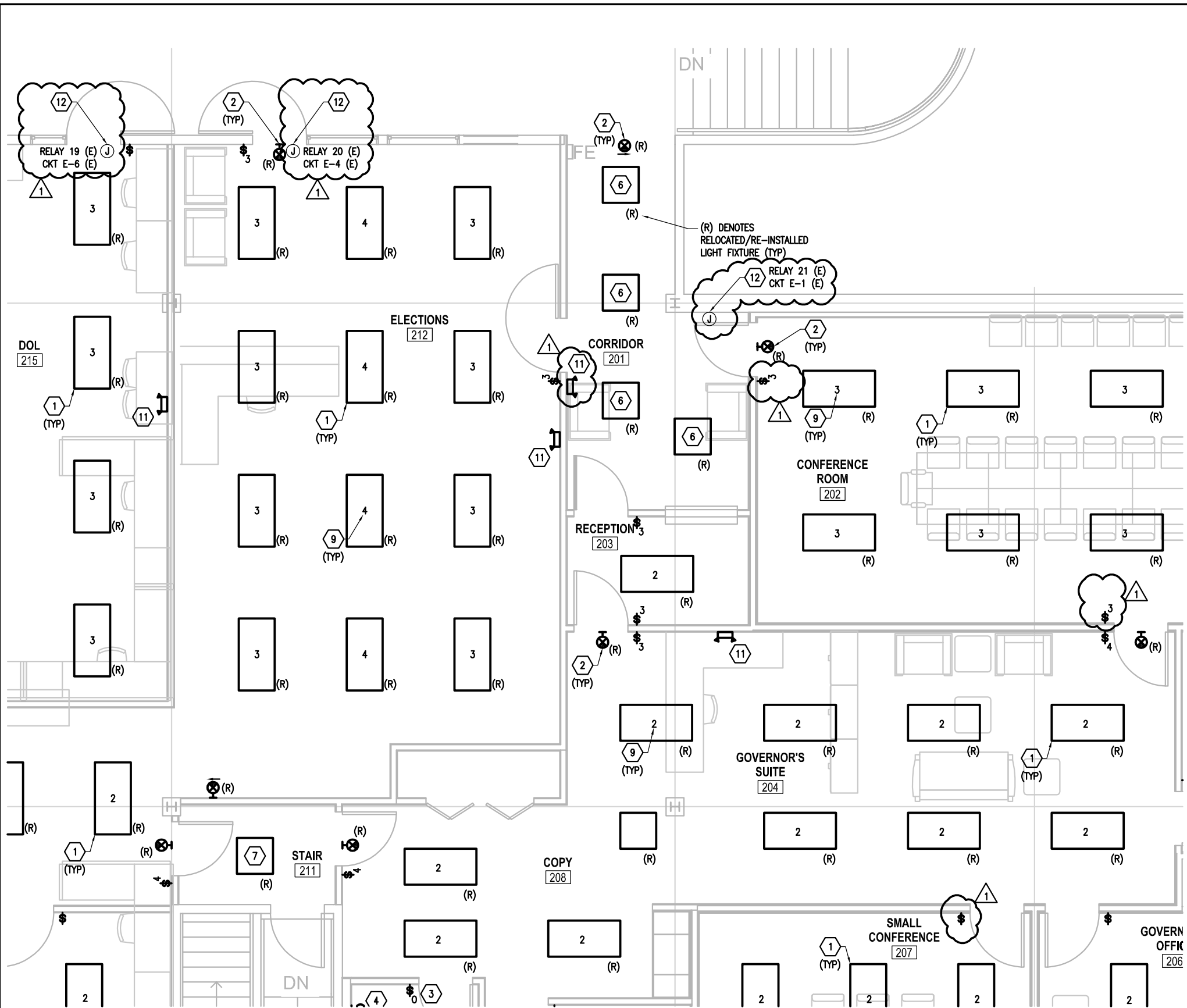
|                           |              |
|---------------------------|--------------|
| <b>ADDENDUM #1</b>        |              |
| E1.1                      |              |
| Project number 11-0013.24 | <b>SKE-2</b> |
| Date 05.09.2013           |              |
| Drawn by CHA              |              |
| Checked by KAC            |              |
| Scale 1/16" = 1'-0"       |              |



### SHEET NOTES

- 1 DEMOLISH EXISTING RECEPTACLE. DEMOLISH EXISTING RECEPTACLE CIRCUIT BACK TO LAST DEVICE TO REMAIN OR TO SOURCE PANEL AND MAKE SAFE.
- 2 DEMOLISH EXISTING TELECOM OUTLET. DEMOLISH EXISTING TELECOM CABLE BACK TO SOURCE PATCH PANEL. REFER TO SHEET E1.1 FOR TELECOM ROOM LOCATION.
- 3 REMOVE EXISTING FIRE ALARM SYSTEM HORN/STROBE AND RETAIN FOR RE-INSTALLATION IAW SHEET E2.3. RETAIN EXISTING FIRE ALARM SYSTEM NOTIFICATION APPLIANCE CIRCUIT (NAC) CIRCUIT FOR RECONNECTION TO RELOCATED DEVICES IAW SHEET E2.3.
- 4 REMOVE EXISTING LIGHT FIXTURE AND ASSOCIATED LIGHT SWITCHES. DEMOLISH EXISTING LIGHTING CIRCUIT BACK TO LAST DEVICE TO REMAIN OR TO SOURCE PANEL AND MAKE SAFE. RETAIN LIGHT FIXTURE FOR RE-INSTALLATION IAW SHEET E2.1.
- 5 REMOVE EXISTING EXIT SIGN. DEMOLISH EXISTING EXIT SIGN CIRCUIT BACK TO LAST DEVICE TO REMAIN OR TO SOURCE PANEL AND MAKE SAFE. RETAIN EXIT SIGN FOR RE-INSTALLATION IAW SHEET E2.1.
- 6 EXISTING CCTV CAMERA AND ASSOCIATED TELECOM TO BE REMOVED AND RE-INSTALLED BY OTHERS.
- 7 REMOVE EXISTING REMOTE DOOR LOCK RELEASE PUSHBUTTON, DOOR LOCK, AND ASSOCIATED EQUIPMENT AND RETAIN FOR RE-INSTALLATION IAW E2.2.
- 8 DEMOLISH EXISTING EMERGENCY LIGHTING FIXTURE. DEMOLISH EXISTING EMERGENCY LIGHTING CIRCUIT BACK TO LAST DEVICE TO REMAIN OR TO SOURCE PANEL AND MAKE SAFE.
- 9. DEMOLISH EXISTING CABLE TV CONNECTIONS AND CABLING WITHIN WALLS MARKED FOR DEMOLITION.
- 10 DEMOLISH EXISTING MAGNETIC DOOR HOLDER. DEMOLISH EXISTING CIRCUIT BACK TO LAST DEVICE TO REMAIN OR TO SOURCE PANEL AND MAKE SAFE.
- 11 REMOVE EXISTING FIRE ALARM SYSTEM MANUAL PULL STATION AND RETAIN FOR RE-INSTALLATION IAW SHEET E2.3. RETAIN EXISTING FIRE ALARM SYSTEM CIRCUIT FOR RECONNECTION TO RELOCATED DEVICES IAW SHEET E2.3.
- 12 REMOVE EXISTING SURFACE WIREMOLD-MOUNTED RECEPTACLE, DEMOLISH WIREMOLD, AND RETAIN RECEPTACLE FOR REINSTALLATION IAW SHEET E2.3. EXISTING CIRCUIT TO REMAIN.
- 13 REMOVE EXISTING SURFACE WIREMOLD MOUNTED FIRE ALARM HORN/STROBE, DEMOLISH WIREMOLD, AND RETAIN HORN/STROBE FOR REINSTALLATION IAW SHEET E2.3.

|   |   |   |  |   |  |
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|   |   |   |  |   |  |
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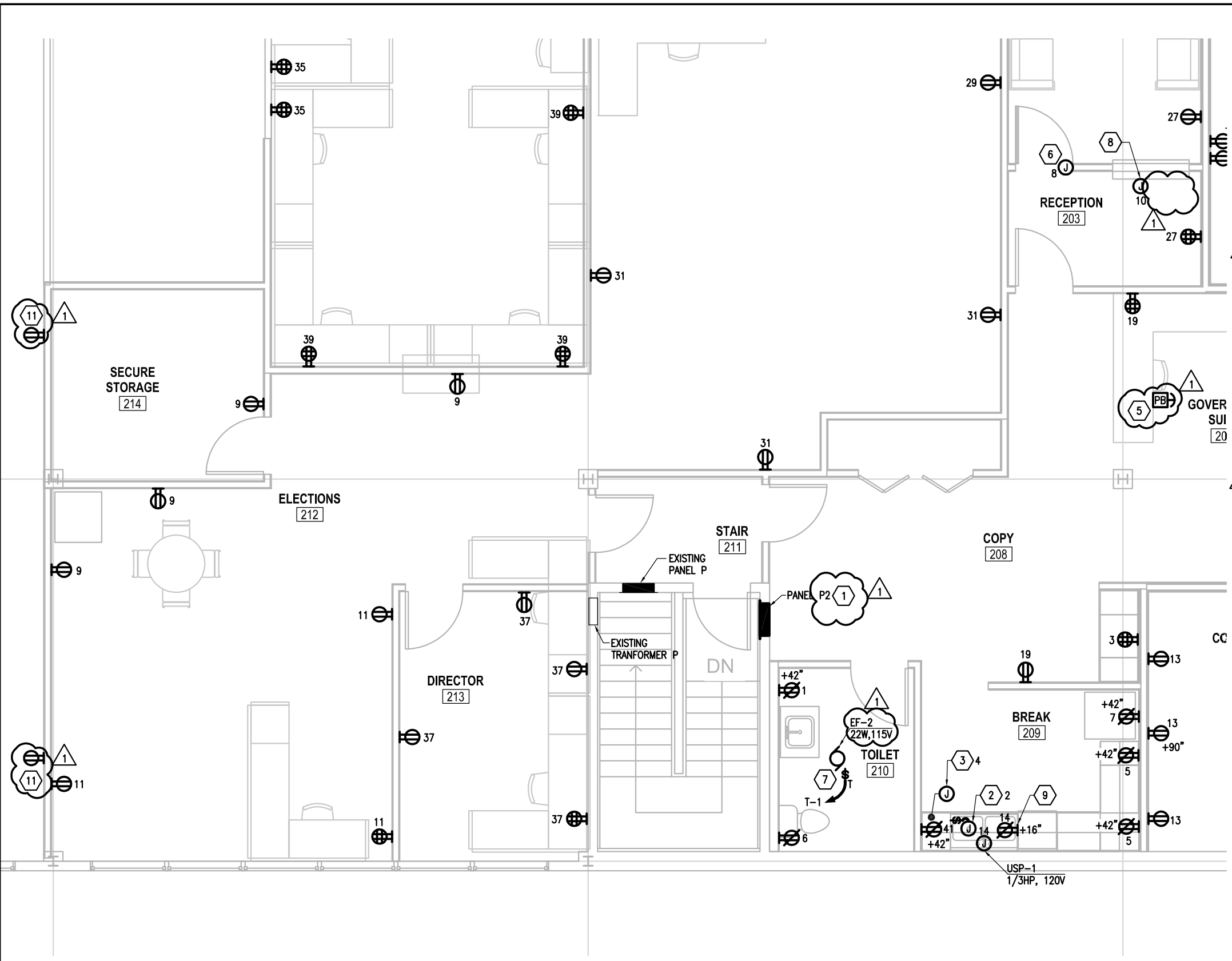
(R) DENOTES  
RELOCATED/RE-INSTALLED  
LIGHT FIXTURE (TYP)

- ### SHEET NOTES
- 1 INSTALL EXISTING LIGHT FIXTURE RETAINED FOR RE-INSTALLATION IAW SHEET E1.2.
  - 2 INSTALL EXISTING EXIT SIGN RETAINED FOR RE-INSTALLATION IAW SHEET E1.2.
  - 3 PROVIDE DUAL CONTACT OCCUPANCY SENSOR SWITCH, ONE CONTACT FOR LIGHTING, ONE CONTACT FOR OPERATION OF THE EXHAUST FAN PROVIDED UNDER DIVISION 15.
  - 4 PROVIDE WALL MOUNTED GATCO MAX COLLECTION 1-LIGHT SCENCE IN SATIN NICKEL FINISH. MOUNT FIXTURE AT 6'-0" AFF AND EQUALLY CENTER/SPACE ON VANITY/SINK/FURNITURE AS SHOWN. PROVIDE A TYPE LED LAMP OF EQUIVALENT INCANDESCENT LUMEN OUTPUT. REFER TO ARCHITECTURAL ELEVATIONS FOR ADDITIONAL INFORMATION.
  - 5 PROVIDE GOTHAM LIGHTING (#EVO-41-14-6AR-277), 6-INCH LED DOWNLIGHT FIXTURE, 1400 LUMENS, SEMI-SPECULAR FINISH. INTERCEPT EXISTING UNSWITCHED LEG OF LOCAL LIGHTING CIRCUIT, EXTEND, AND CONNECT TO LIGHTS VIA OCCUPANCY SENSOR PROVIDED IAW SHEET NOTE 3.
  - 6 SWITCH RELOCATED 2 FOOT x 2 FOOT CORRIDOR H FIXTURES WITH EXISTING CORRIDOR 200 LIGHTING (NOT SHOWN).
  - 7 SWITCH RELOCATED 2 FOOT x 2 FOOT FIXTURE WITH EXISTING STAIR 211 LIGHTING (NOT SHOWN).
  8. CONNECT ALL LIGHTING TO EXISTING LIGHTING CIRCUIT(S) SERVING AREA. PROVIDE SWITCHING AS NOTED.
  - 9 NUMBER INDICATES NUMBER OF LAMPS WITHIN RELOCATED 2 FOOT x 4 FOOT FIXTURE. 2 = 2-LAMP, 3 = 3-LAMP, 4 = 4-LAMP.
  - 10 AREAS NOT CONTROLLED BY THE EXISTING LIGHTING CONTROL PANEL (SEE NOTE 12 BELOW) ARE TO HAVE LINE VOLTAGE SWITCHING. CONNECT LIGHT FIXTURES IN ROOMS 204, 205, 206, AND 207 TO CIRCUIT E-3. CONNECT LIGHT FIXTURES IN ROOMS 201, 203, 208, 209, 210, 211, AND 213 TO CIRCUIT E-5. BOTH CIRCUITS ARE EXISTING ABOVE THE JBOX OUTSIDE CONFERENCE ROOM 202 PER SHEET NOTE 12.
  - 11 PROVIDE EMERGENCY LIGHT FIXTURE (EMERGI-LITE PRO-2) AT LOCATION INDICATED. CONNECT TO UNSWITCHED LEG OF LOCAL AREA LIGHTING CIRCUIT.
  - 12 EXISTING JUNCTION BOX CONTAINING NOTED EXISTING LIGHTING CIRCUITS AND RELAY(S) FOR LIGHT FIXTURE CONNECTION TO EXISTING LIGHTING CONTROL PANEL VIA RELAY AND CIRCUIT (INDICATED). CONNECT FIXTURES IN RM 202 TO CIRCUIT E-1 VIA RELAY 21. CONNECT FIXTURES IN RM 212 TO EXISTING CIRCUIT E-4 VIA EXISTING RELAY 20. CONNECT FIXTURES IN RM 215 TO EXISTING CIRCUIT E-6 VIA EXISTING RELAY 19. PROVIDE LEVITON #1256-1 LOW VOLTAGE LIGHT SWITCHES FOR THESE AREAS IAW THE LIGHTING PLAN AND EXTEND TO THE EXISTING RELAY(S) NOTED. REFER TO DETAIL 2 ON SHEET E3.1 FOR ADDITIONAL INFORMATION.

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## FROB BUILDING RENOVATIONS

|                           |              |
|---------------------------|--------------|
| ADDENDUM #1               |              |
| E2.1                      |              |
| Project number 11-0013.24 | <b>SKE-4</b> |
| Date 05.09.2013           |              |
| Drawn by CHA              | Scale NONE   |
| Checked by KAC            |              |



- SHEET NOTES**
- 1 PROVIDE 225A, 208Y/120V, 3Ø, 4W, PANEL "P2" IAW THE POWER ONE-LINE DIAGRAM ON SHEET E3.1 AND THE PANEL SCHEDULE ON SHEET E0.2.
  - 2 CONNECT GARBAGE DISPOSAL TO CIRCUIT NOTED, VIA SWITCH LOCATED BENEATH SINK.
  - 3 CONNECT WATER HEATER WH-1 PROVIDED UNDER DIVISION 15 TO CIRCUIT NOTED.
  - 4 PROVIDE FLUSH-MOUNT FIRE RATED POKETHROUGH WITH DOUBLE DUPLEX RECEPTACLE. CIRCUIT AS NOTED. PROVIDE TELECOM OUTLETS IAW SHEET E2.3.
  - 5 RE-INSTALL PUSHBUTTON FOR REMOTE DOOR LOCK RELEASE (REMOVED IAW SHEET E1.2) AT RECEPTION DESK. FIELD VERIFY EXACT MOUNTING LOCATION. CONNECT TO DOOR LOCK RELEASE IAW MANUFACTURER RECOMMENDATIONS.
  - 6 CONNECT REMOTE OPERATED ELECTRIC DOOR LOCK TO CIRCUIT NOTED IAW MANUFACTURER RECOMMENDATIONS. CONNECT TO RE-INSTALLED PUSHBUTTON IAW SHEET NOTE 5.
  - 7 CONNECT EXHAUST FAN TO SPARE CONTACT OF OCCUPANCY SENSOR PROVIDED IAW SHEET E2.1.
  - 8 CONNECT FIRE SMOKE DAMPER TO CIRCUIT NOTED.
  - 9 PROVIDE RECEPTACLE BENEATH SINK FOR CONNECTION TO DISHWASHER. CONNECT TO CIRCUIT NOTED.
  10. CONNECT DEVICES AND EQUIPMENT ON THIS SHEET TO PANEL P2 PROVIDED IAW SHEET E3.1.
  - 11 RE-INSTALL RECEPTACLES REMOVED IAW SHEET E1.2. PROVIDE FLUSH-MOUNT JUNCTION BOX FOR RE-INSTALLATION. EXTEND EXISTING CIRCUIT AS NECESSARY AND RE-CONNECT.

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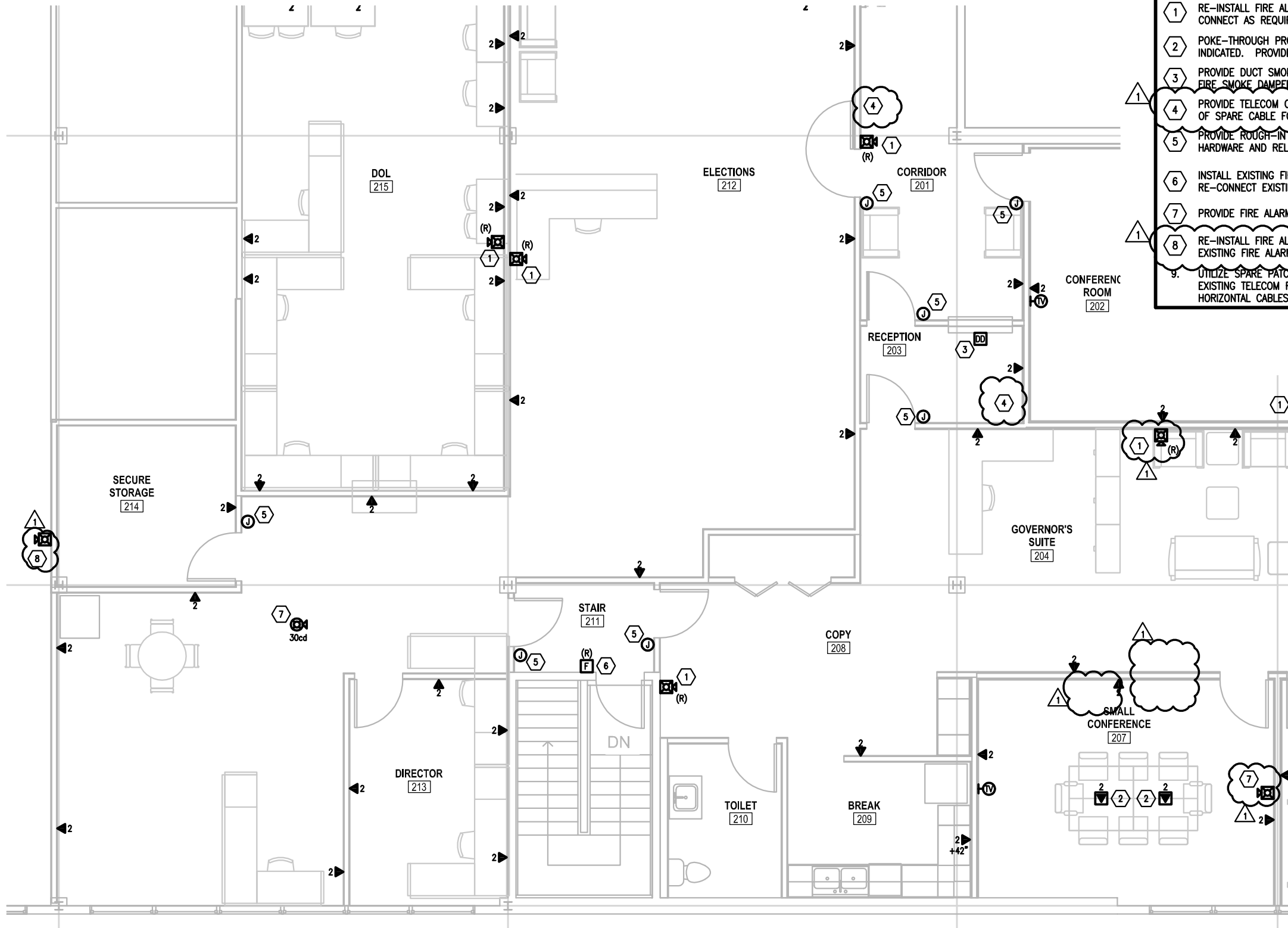
**FROB BUILDING  
 RENOVATIONS**

|                |            |
|----------------|------------|
| ADDENDUM #1    |            |
| E2.2           |            |
| Project number | 11-0013.24 |
| Date           | 05.09.2013 |
| Drawn by       | CHA        |
| Checked by     | KAC        |
| Scale          | NONE       |

**SKE-5**

### SHEET NOTES

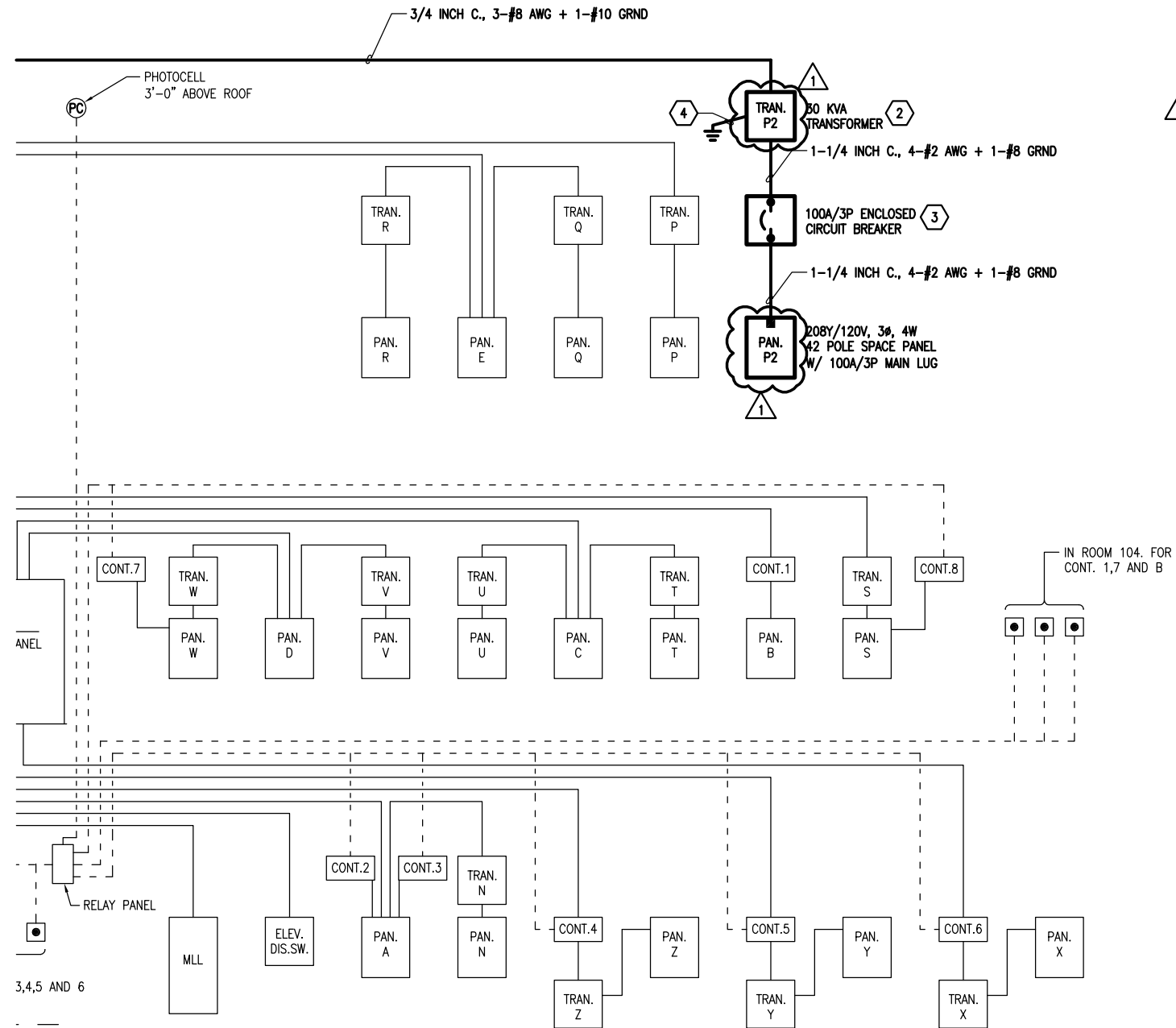
- 1 RE-INSTALL FIRE ALARM HORN/STROBE REMOVED IAW SHEET E1.2. INTERCEPT EXISTING FIRE ALARM SYSTEM NAC CIRCUIT, EXTEND, AND CONNECT AS REQUIRED.
- 2 POKE-THROUGH PROVIDED IN ACCORDANCE WITH SHEET E2.2. PROVIDE TELECOM OUTLET IN FLOOR BOX, NUMBER OF TELECOM JACKS AS INDICATED. PROVIDE RECEPTACLES IAW SHEET E2.2.
- 3 PROVIDE DUCT SMOKE DETECTOR FOR CONTROL OF FIRE SMOKE DAMPER PROVIDED UNDER DIVISION 15. INSTALL DETECTOR WITHIN 5 FEET OF FIRE SMOKE DAMPER WITH NO AIR INLETS OR OUTLETS BETWEEN DETECTOR AND DAMPER. CONNECT TO FIRE ALARM SYSTEM.
- 4 PROVIDE TELECOM CABLING TO FUTURE CCTV CAMERA LOCATION CONNECTED TO EXISTING PATCH PANEL IN TELECOM ROOM. PROVIDE 15- FEET OF SPARE CABLE FOR CONNECTION TO CAMERA.
- 5 PROVIDE ROUGH-IN FOR ACCESS CONTROLLED DOORS IAW THE DOOR HARDWARE SCHEDULES, AND DIVISION 8. ACCESS CONTROL SYSTEM HARDWARE AND RELATED CABLING PROVIDED BY THE DEPARTMENT OF ADMINISTRATION ACCESS CONTROL SYSTEM CONTRACTOR.
- 6 INSTALL EXISTING FIRE ALARM SYSTEM MANUAL PULL STATION RETAINED FOR RE-INSTALLATION IAW SHEET E1.2. INTERCEPT, EXTEND, AND RE-CONNECT EXISTING FIRE ALARM CIRCUIT AS REQUIRED.
- 7 PROVIDE FIRE ALARM SYSTEM HORN/STROBE TO MATCH EXISTING TYPE. CONNECT TO LOCAL FIRE ALARM SYSTEM NAC CIRCUIT.
- 8 RE-INSTALL FIRE ALARM HORN/STROBE REMOVED IAW SHEET E1.2. PROVIDE FLUSH MOUNT JUNCTION BOX FOR RE-INSTALLATION. INTERCEPT EXISTING FIRE ALARM SYSTEM NAC CIRCUIT, EXTEND, AND CONNECT AS REQUIRED.
- 9 UTILIZE SPARE PATCH PANEL PORTS MADE AVAILABLE UNDER THE DEMOLITION PORTION OF THIS CONTRACT IN EXISTING TELECOM RACK IN EXISTING TELECOM ROOM. PROVIDE ADDITIONAL SPARE PATCH PANELS IN SUFFICIENT QUANTITY TO FULLY TERMINATE AND TEST TELECOM HORIZONTAL CABLES PROVIDED UNDER THIS CONTRACT.



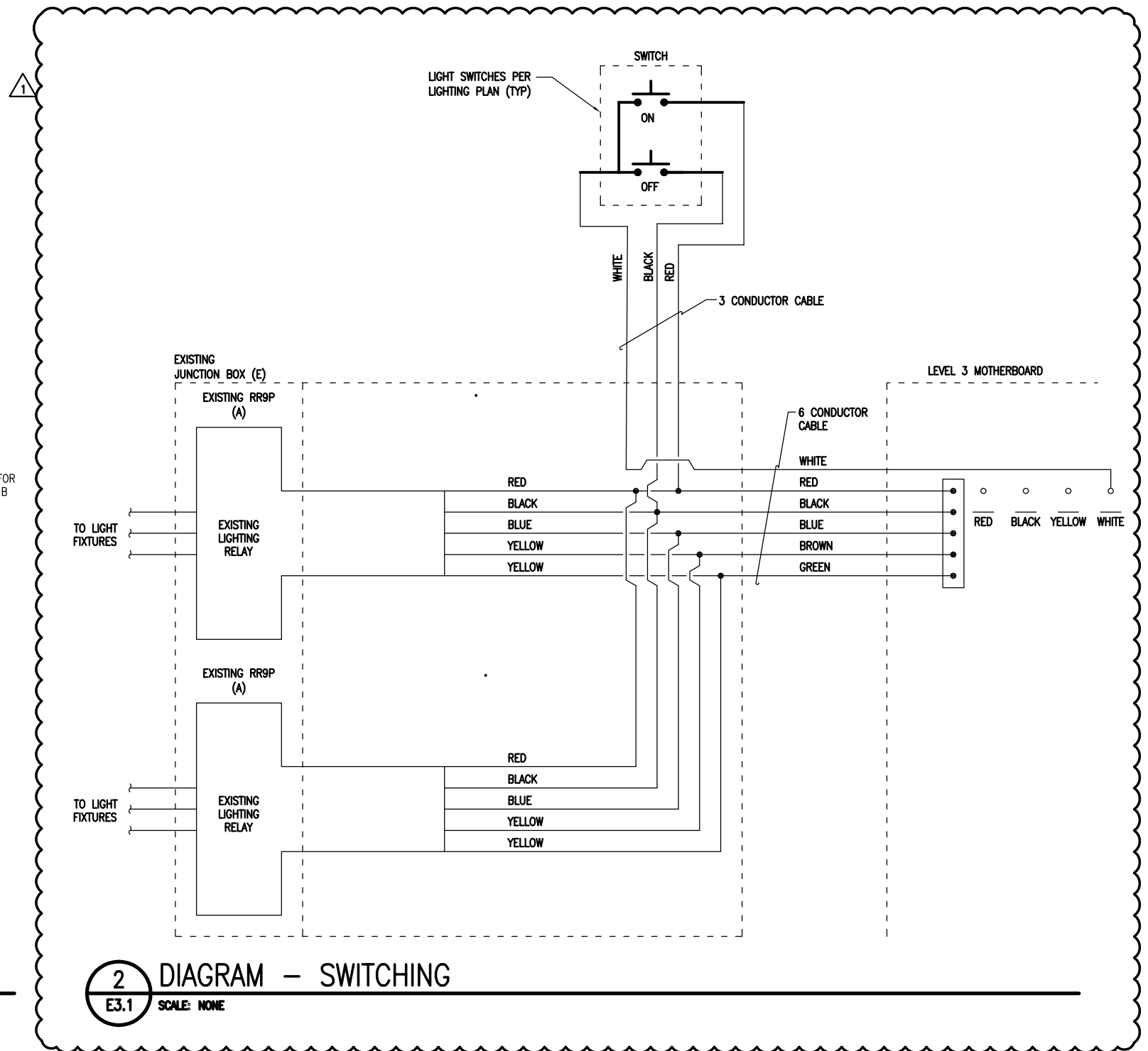

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## FROB BUILDING RENOVATIONS

|                           |       |
|---------------------------|-------|
| ADDENDUM #1               |       |
| E2.3                      |       |
| Project number 11-0013.24 | SKE-6 |
| Date 05.09.2013           |       |
| Drawn by CHA              |       |
| Checked by KAC            |       |
| Scale                     | NONE  |



**NER ONE-LINE**



**2** DIAGRAM - SWITCHING  
E3.1 SCALE: NONE

|   |   |       |                |            |                     |
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|   |   |       | E3.1           |            | <p><b>SKE-7</b></p> |
|   |   |       | Project number | 11-0013.24 |                     |
|   |   |       | Date           | 05.09.2013 |                     |
|   |   |       | Drawn by       | CHA        |                     |
| Checked by  | KAC   | Scale | NONE           |            |                     |