DATE: March 16, 2020

State of Illinois
CAPITAL DEVELOPMENT BOARD

Farnsworth Group Inc.
One NW Old State Capitol Plaza
Springfield, IL 62701
217-528-3661

TO: PROSPECTIVE BIDDERS

SUBJECT: ADDENDUM NO. ONE TO THE BIDDING DOCUMENTS FOR

CDB-756-030-001
Illinois Treasury Department Relocation
One East Old State Capitol Plaza
Springfield, Illinois 62701

This addendum forms a part of the bidding and contract documents and modifies the original bidding documents, dated March 05, 2020. Acknowledge receipt of this addendum in space provided on Bid Form. FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION.

PROJECT MANUAL:

1. SECTION 01 51 50 “Use of Existing Facilities”:
   a. Revised to eliminate need for phased construction between open office areas on 2nd and 3rd floors,
   b. Revised to clarify no requirements or limitations on work hours,
   c. Revised to require limited access to Mother’s Room #344,
   d. Revised to indicate size and capacity of existing freight elevator.
   e. See attached, revised specification.

2. SECTION 01 74 23 “Final Cleaning: revised to indicate waxing of VCT. See attached, revised specification.

3. SECTION 08 71 00 “Door Hardware”: revised to clarify that door number 0353A as shown in the Door Hardware Schedule and Door Index is actually door number 053A.
   a. Heading #27 on page 08 71 00 – 20: replace 0353A with 053A.
   b. Door Index page 08 71 00 – 29: add Mark 053A with Heading #27
   c. Door Index Page 08 71 00 – 31: remove/strike-through Mark 0353A Heading #27

4. SECTION 26 27 26 “Wiring Devices”: revised to add smoke detectors, emergency pull stations and sight/hearing impaired notification systems requirements. See attached, revised specification.

CDB-00 91 00 January 2015

CDB 756-030-001 00 91 01-1 Addendum No. 1
BIDDING & CONTRACT REQUIREMENTS

Document 00 91 01 - Addendum No. 1

DRAWINGS:

1. SHEET A2.1.0 Lower Level Floor Plan:
   a. Toilet Room #069 added to scope of work.
   b. See attached revised drawing.

2. SHEET A2.2.0 – Lower Level Reflected Ceiling Plan:
   a. Toilet Room #056 adjusted area of work to match the Room Finish Schedule scope of work.
   b. Toilet Room #069: Added to scope of work.
   c. See attached revised drawing.

3. SHEET A2.2.3 – Third Floor Reflected Ceiling Plan:
   a. Office #384: Added ceiling repairs at limited areas to scope of work for existing 12” x12” concealed spline ceiling.
   b. See attached revised drawing.

4. SHEET A5.1.1 – Interior Elevations
   a. Reprint of drawing to make legible the casework detail call-outs that were obscured in the original issued for bid printing.
   b. See attached revised drawing.

5. SHEET A7.1.1 – Room Finish Schedule
   a. Toilet Room #069 added to scope of work.
   b. See attached revised drawing.

6. SHEET a7.1.3 – Room Finish Schedule
   a. Added general note #5 clarifying extents of paint at door frame for wall color vs. door frame color.
   b. See attached revised drawing.

7. A7.3.0 – Lower Level Finish Floor Plan
   a. Toilet Room #069 added to scope of work.
   b. See attached revised drawing.

8. SHEET H0.0.1 – General Notes, Symbols & Abbreviations
   a. See attached revised drawing.

9. SHEET H1.1.2 – Second Floor Heating Demolition Plan
   a. See attached revised drawing.

10. SHEET H 2.1.0 – Lower Level Heating Renovation Plan
    a. See attached revised drawing.

11. SHEET H2.1.2 – Second Floor Heating Renovation Plan
    a. See attached revised drawing.

12. SHEET E0.0.1 – General Notes, Symbols & Abbreviations
    a. See attached revised drawing.

13. SHEET E1.1.2 – Second Floor Electrical Demolition Plan
    a. See attached revised drawing.

14. SHEET E1.1.3 – Third floor Electrical Demolition Plan
    a. See attached revised drawing.

15. SHEET E2.1.1 – First Floor Electrical Renovation Plan
    a. See attached revised drawing.

16. SHEET E2.1.2 – Second Floor Electrical Renovation Plan
    a. See attached revised drawing.

CDB-00 91 00  January 2015
CLARIFICATIONS

1. Existing 12” x 12” ceiling tile glued to underside of concrete slab is existing to remain.

2. Existing abandoned utilities not shown on the drawings will be handled on a case by case basis when discovered.

3. The previously scheduled additional access to the building on March 17, 2020 from 9:00 a.m. to noon, has been cancelled and will be rescheduled.

BID DATE:

1. This Addendum does not alter the previously published bid date.

*Except as modified herein, the originally issued bid documents shall remain in full force and effect.

Very truly yours,

Cynthia J. Petheram AIA
This addendum consists of 31 pages.

Attachments:
Specifications:
  01 51 50 – “Use of Existing Facilities”
  01 74 23 – “Final Cleaning”
  26 27 26 – “Wiring Devices”
Drawings:
A2.1.0 – Lower Level Floor Plan
A2.2.0 – Lower Level Reflected Ceiling Plan
A2.2.3 – Third Floor Reflected Ceiling Plan
A5.1.1 – Interior Elevations
A7.1.1 – Room Finish Schedule
A7.1.3 – Room Finish Schedule & Materials List
A7.3.0 – Lower Level Finish Floor Plan

H0.0.1 – General Notes, Symbols & Abbreviations
H1.1.2 – Second Floor Heating Demolition Plan
H 2.1.0 – Lower Level Heating Renovation Plan
H 2.1.2 – Second Floor Heating Renovation Plan

E0.0.1 – General Notes, Symbols & Abbreviations
E1.1.2 – Second Floor Electrical Demolition Plan
E1.1.3 – Third floor Electrical Demolition Plan
E2.1.1 – First Floor Electrical Renovation Plan
E2.1.2 – Second Floor Electrical Renovation Plan
DIVISION 1 – GENERAL REQUIREMENTS

01 51 50 – Use of Existing Facilities

1. GENERAL

1.1 The project will be constructed at an unoccupied facility. These requirements supplement the Standard Documents for Construction and other sections of the Project Manual.

1.2 The Using Agency will occupy area(s) for purpose of accessing storage and implementing Using-Agency provided work during the entire construction period but will not have people stationed in the building for full time work except for security personnel.

1.3 REQUIREMENTS INCLUDE: Contractor provide:

A. Scheduling
B. Security and site regulations
C. Entrances
D. Use of stairs and elevators
E. Temporary enclosures and barriers
F. Fences
G. Temporary utilities
H. Access roads & parking areas & trash container locations
I. Traffic regulation
J. Construction Cleaning
K. Field Offices
L. Storage
M. Close-out

1.4 RELATED REQUIREMENTS

A. Specified elsewhere:
   1. 01 54 00 – “Construction Aids”
   2. 01 73 29 – “Cutting and Patching”
   3. 01 74 23 – “Final Cleaning”
   4. 01 78 39 – “Project Record Documents”

2. EXECUTION

2.1 SCHEDULING

A. There are no requirements or limitations on hours or on days during which work may be performed.

B. Schedule noisy or hazardous work to avoid problems with Using Agency's operations.

C. Using Agency will move furniture remaining in the building. Coordinate with Using Agency for scheduling of furniture moving in areas of construction.

2.2 SECURITY AND SITE REGULATIONS
A. Confer with the Using Agency's representative and obtain full knowledge of all site rules and regulations affecting work.

B. Provide control of all persons and vehicles entering and leaving project site. The building is located in a downtown area with potential for certain persons to try and gain access to the building for shelter or in the mistaken belief the building still houses a bank. The parking lot is for use only by those vehicles associated with the project (Contractor/Subcontractors, Suppliers, A/E, Using Agency) and is not to be used for public parking. Reasonable proof of identification shall be required of the visitors by the contractor's site superintendent. Entrances to the building that are left unlocked shall be monitored to prevent the intrusion of persons not associated with the project.

C. Limit access to the west executive office area on the 3rd floor only to personnel associated with work in that area and only while work is being performed in that area.

D. Limit access to the board room and associated rooms on floor 3.5 only to personnel associated with work in those rooms and only while work is being performed in those rooms.

E. Limit access to the Mother’s Room #344 only to personnel associated with work in that room and only while work is being performed in that room. Do not use Mother’s Room #344 for through-access from other rooms to the corridor.

2.3 ENTRANCES: Contractor may use any of the entrances to the building, however all entrances must be monitored if left unlocked. Note that the entrances on the first floor main building have glass doors and are not to be damaged.

2.4 USE OF STAIRS AND ELEVATORS

A. All stairs in existing building may be used by construction personnel if the floorcoverings, walls, railings and other aspects of the stairs are protected from damage and soiling.

B. The building has 4 elevators. The Contractor shall protect all elevators used during construction from damage and soiling.

1. The freight elevator in the southwest corner shall be the primary elevator used for transportation of materials and personnel to the Lower Level and the 2nd and 3rd floors. **The freight elevator has a 4,000 lb capacity and is approximately 5'-6” wide x 8’-0” long.**

2. The bank of two elevators off of the main 1st floor lobby may be used for transportation of personnel and some small amounts of materials.

3. The small elevator near the west entry shall not be used.

2.1 TEMPORARY ENCLOSURES AND BARRIERS Contractor:

A. Provide temporary enclosures to separate work areas from existing building areas that are not in the scope of work and to protect certain areas of the building from dust, and damage including the main Atrium/Lobby, the 3rd
DIVISION 1 – GENERAL REQUIREMENTS
01 51 50 – Use of Existing Facilities

floor west executive offices, the board room on floor 3.5 and its associated rooms.

B. Provide and maintain suitable barriers to prevent unauthorized entry and to protect the work.

2.2 TEMPORARY UTILITIES

A. Using Agency will authorize use of existing facilities or services:
   1. Heating.
   2. Ventilating.
   3. Electrical power service.
   4. Lighting.
   5. Water service.
   6. Toilets.

B. Make written arrangements with Using Agency's representative.

C. Prevent interference with Using Agency's normal use of system if Using Agency requires use of the system during the construction period.

D. Modify, supplement and extend systems to meet temporary utility requirements for project, subject to approval of Architect/Engineer and Using Agency. Modifications shall be at contractor's expense.

E. Using Agency will pay all costs of consumables used for construction purposes for utilities it furnishes.

F. Contractor requiring facilities or services beyond those available from the User shall provide and pay for extension or modification of services to perform the work, and for restoration of services at completion of work.

2.3 ACCESS ROADS & PARKING AREAS & TRASH CONTAINER LOCATIONS

A. Existing driveways from 6th Street and Washington Street may be used for construction traffic. Note that these are one-way streets. Maintain existing condition.

B. Existing parking facilities at the parking lot on the south side of the building and at the former drive-through teller lanes may be used for parking of construction personnel's private vehicles and of contractor's lightweight (not exceeding a B plate) vehicles. Note that these areas occur over the top of the lower level of the building. Coordinate parking with striping work at the parking lots. Access to the parking area is also available via an alley off of Adams Street.

C. Large capacity trash containers are not to be put on the buildings parking lots. Trash container location is to be arranged with the City of Springfield by the Contractor with all fees to the city to be paid by the contractor.
D. Maintain roads, walks and parking areas in a sound, clean condition. Restore to original condition upon work completion prior to Final Acceptance.

E. Control vehicular parking to preclude interference with public traffic or parking, access by emergency vehicles, Using Agency's operations or construction operations.

2.4 TRAFFIC REGULATION Contractor provide traffic control and directional signs, mounted on barricades or standard posts:

A. At each change of direction of a roadway and at parking areas.

B. Provide qualified and suitably equipped flaggers when construction operations encroach on traffic lanes, as required for traffic regulation.

2.5 CONSTRUCTION CLEANING

A. Contractor provide cleaning and disposal of waste materials, debris and rubbish during construction.

B. Contractor provide covered containers for deposit of waste materials, debris and rubbish.

2.6 FIELD OFFICES

A. The Using Agency will authorize use of existing space for temporary office. Make arrangements with Using Agency's Representative.

B. Make arrangements with User Agency Representative for use of Conference Room for project meetings.

2.7 STORAGE Make arrangements with Using Agency's Representative for any on-site storage of materials and equipment to be installed in project. Protection and security for stored materials and equipment is solely each contractor's responsibility.

2.8 CLOSEOUT

A. Upon completion of need to use existing user-provided facilities, or when directed by Architect/Engineer, restore each to original or specified condition.

B. At completion of work in each area, provide final cleaning and return space to a condition suitable for use of User.

END 01 51 50
1. GENERAL

1.1 REQUIREMENTS INCLUDE

A. Contractor: Provide final cleaning:

1. At completion of work, or at such other times as directed by the Coordinating Contractor or Using Agency, remove all waste, debris, rubbish, tools, equipment, machinery and surplus materials. Clean all sight exposed surfaces; leave work clean and ready for occupancy.

B. Coordinating Contractor:

1. Supervise and coordinate the cleaning operations of all Assigned Contractors.
2. At project completion, leave project clean, ready for occupancy.

1.2 RELATED REQUIREMENTS

A. Specified elsewhere:

1. Specific specification sections - cleaning for specific products or work.

2. PRODUCTS

2.1 Cleaning agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.

3. EXECUTION

3.1 FINAL CLEANING

A. Employ professional cleaners for final cleaning.

B. Remove grease, dust, dirt, stains, labels, fingerprints, protection and other foreign materials from sight-exposed interior and exterior finished surfaces; polish surfaces so designated to specified finish.

1. In preparation for substantial completion or occupancy, conduct final inspection of sight-exposed interior and exterior surfaces, and of concealed spaces to ensure performance.

C. Repair, patch and touch up marred surfaces to specified finish, to match adjacent surfaces.

D. Contractor soft broom clean all exposed concrete surfaces clean; other paved areas with soft or stiff broom as directed. Rake clean other surfaces on grounds.
E. Contractor sweep and mop clean all (existing & new) resilient, ceramic, exposed concrete and stone flooring. **Apply final wax to all (existing & new) VCT.**

F. Contractor clean existing guardrails adjacent to Atrium/Lobby spaces and polish the top rail to remove all dust, dirt and fingerprints.

G. Contractor vacuum clean all carpet.

H. Contractor remove snow and ice from access to building.

I. Contractor replace air handling (conditioning) filters if units were operated during construction.

J. Contractor vacuum clean ducts, blowers and coils, when directed by A/E.

K. Contractor clean all surfaces, existing and new, of the reception desk in Lobby 101 including surfaces below the counter.

L. Maintain finally cleaned areas until project, or designated portion thereof, is accepted by Using Agency.

END 01 74 23.
1. GENERAL

1.1 WORK INCLUDES

A. Base Bid:

1. General Contractor Provide:
   a. Switches.
   b. Receptacles.
   c. Wall Covers.
   d. **Smoke Detector.**
   e. **Emergency Pull Station.**
   f. **Sight/Hearing Impaired Notification System.**

1.2 RELATED WORK

A. Specified elsewhere:

   1. 26 05 00 - Common Work Results for Electrical Systems.
   2. 26 05 19 - Low-Voltage Electrical Power Conductors and Cables.
   3. 26 05 26 - Grounding & Bonding for Electrical Systems.
   4. 26 05 33 - Raceway & Boxes for Electrical Systems.
   5. 26 05 53 - Identification for Electrical Systems.
   6. 26 51 00 - Interior Lighting.
   7. 27 13 40 - Communication Systems.

1.3 QUALITY ASSURANCE

A. Regulatory Requirements: All materials: NRTL listed or labeled.

B. Comply with NEMA WD 1.

C. Comply with NFPA 70.

1.4 REFERENCES

A. Specified references, or cited portions thereof, current at date of bidding documents unless otherwise specified, govern the work. In conflict between referenced standards and contract documents, notify A/E immediately. Confirm notification in writing. Do not proceed with the work until the A/E issues written instructions.

B. National Electrical Manufacturers Association (NEMA):

   1. WD-1 - General Purpose Wiring Devices.
   2. WD-2 - Semi-Conductor Dimmers for Incandescent Lamps.
   3. WD-5 - Specific Purpose Wiring Devices.

D. Nationally Recognized Testing Laboratory: All materials NRTL listed and labeled.

E. Manufacturers’ Catalogs: Specified manufacturers’ catalogs are incorporated by reference to same force and effect as if repeated herein in full.

1.5 SUBMITTALS

A. Comply with Section Division 01 requirements.

B. Product Data

C. Shop Drawings

D. Manufacturer’s Installation Instructions.

1.6 OPERATING AND MAINTENANCE

A. Submit operation data under provisions of Division 01.

B. Include manufacturer’s descriptive literature, start-up and operating instruction, maintenance and repair data, and parts listing.

1.7 DELIVERY, STORAGE AND HANDLING

A. Materials shall be suitably packaged by manufacturer to prevent damage during shipment. Damaged materials will not be acceptable for use.

B. Store materials on site in clean, dry storage area.

C. Handle all materials carefully to preclude damage during installation.

2. PRODUCTS

2.1 WALL SWITCHES

A. Specification grade, 20a, 120-277 v., quiet type, slow make-slow break design, back and side wired, toggle handle. Color Ivory.

B. Acceptable Manufacturers:

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<tr>
<th>S.P.</th>
<th>D.P.</th>
<th>3 Way</th>
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<td>1. Bryant Electric Co.</td>
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<td>4902-1</td>
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<td>3. General Electric</td>
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<td>5952-2G</td>
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<td>4. Harvey Hubbell, Inc.</td>
<td>#1221-1</td>
<td>1222-1</td>
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<tr>
<td>5. Leviton, Inc.</td>
<td>#1221-1</td>
<td>1222-1</td>
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<tr>
<td>6. Pass &amp; Seymour</td>
<td>#20ACI-1</td>
<td>20AC2-1</td>
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2.2 RECEPTACLES

A. Duplex, flush, straight blade, 3 wire grounding, specification grade, 20 a., 125 v. NEMA 5-20R, designed for split feed. Color: Ivory.

B. Acceptable Manufacturers:

1. Bryant Electric #5362-1.
4. Harvey Hubbell #5362-1.
5. Leviton #5362-1.

C. Ground Fault Circuit Interrupter:

1. General duty feed through type capable of protecting downstream receptacles on same circuit, grounding type, UL class A-Group 1, 20 a. 125 v.
2. Solid state ground fault sensing and signaling, 5 ma. trip level.
4. Provide matching cover plate.
5. Acceptable Manufacturers:

   a. Bryant Electric #GFR52FT.
   b. Hubbell #GF8220.
   c. Leviton #6198.
   d. Pass & Seymour #1591-F.

D. Provide isolated ground type where scheduled. Color: Orange.

1. Acceptable Manufacturers:

   a. Arrow Heart: IG26362.
   b. Leviton: 5362-IG.
   c. Marinco: 5262IG.
   d. Pass and Seymour: IG26362.

E. Special purpose devices shall be of amperage rating and configuration for equipment served. Provide matching plug with receptacle.

1. Acceptable Manufacturers:

   a. Bryant Electric.
   b. Hubbell.
   c. Leviton.
   d. Pass & Seymour.

2.3 WALL PLATES

A. Acceptable Manufacturers:

1. Arrow Hart.
2. Hubbell.
3. Leviton.
B. Flush Mounted Cover Plate: Ivory thermoplastic cover plates.

C. Weatherproof Cover Plate: “While in-use” type with gasketed cast metal plate with hinged and gasketed device cover.

2.4 SMOKE DETECTOR

A. Product Description: NFPA 72E, photoelectric type ceiling smoke detector with the following features:
   1. Adjustable sensitivity.
   2. Plug-in base.
   3. Auxiliary relay contact.
   4. Integral thermal element rated 135º F.
   7. Furnish four-wire detector with separate power supply and signal circuits.

B. Acceptable Manufacturers:
   1. Fenwal, Inc.
   2. Honeywell, Inc.
   3. Notifier Co.
   4. Simplex.

2.5 EMERGENCY PULL STATION

A. Combination outside flasher and horn shall be 120 volt, rated damp location, semi-flush mounted, plain white lens incandescent lamp (150 cd), high output modular horn (90 dBA), with white finish.

2.6 SIGHT/HEARING IMPAIRED NOTIFICATION SYSTEM

A. Push buttons shall be low voltage, brass construction, momentary contact with screw terminal connection.

B. Low voltage cable shall be 2 conductor, 300 volt, 20 gauge.

C. Light and buzzer package shall be Housing Devices, Inc. Cat. No. ADA-120 and shall consist of 120/24 transformer, control/timing relay, buzzer, strobe light, light emitting diode (LED), on/off switch and reset button. Timing relay shall be adjustable from 0 to 30 seconds. Surface mounted unit shall have a NEMA I enclosure.

3. EXECUTION

3.1 INSTALLATION

A. Comply with NECA 1, including the mounting heights listed in that standard, unless otherwise noted.

B. Coordination with Other Trades:

   1. Take steps to insure that devices and their boxes are protected. Do not place wall finish materials over device boxes and do not cut holes for boxes with routers that are guided by riding against outside of the boxes.
2. Keep outlet boxes free of plaster, drywall joint compound, mortar, cement, concrete, dust, paint, and other material that may contaminate the raceway system, conductors, and cables.
3. Install device boxes in brick or block walls so that the cover plate does not cross a joint unless the joint is troweled flush with the face of the wall.
4. Install wiring devices after all wall preparation, including painting, is complete.

C. Conductors:

1. Do not strip insulation from conductors until just before they are spliced or terminated on devices.
2. Strip insulation evenly around the conductor using tools designed for the purpose. Avoid scoring or nicking of solid wire or cutting strands from stranded wire.
3. The length of free conductors at outlets for devices shall meet provisions of NFPA 70, Article 300, without pigtails.
4. Existing Conductors:
   a. Cut back and pigtail, or replace all damaged conductors.
   b. Straighten conductors that remain and remove corrosion and foreign matter.
   c. Pigtailing existing conductors is permitted provided the outlet box is large enough.

D. Device Installation:

1. Replace all devices that have been in temporary use during construction or that show signs that they were installed before building finishing operations were complete.
2. Keep each wiring device in its package or otherwise protected until it is time to connect conductors.
3. Do not remove surface protection, such as plastic film and smudge covers, until the last possible moment.
4. Connect devices to branch circuits using pigtails that are not less than 6 in. in length.
5. When there is a choice, use side wiring with binding-head screw terminals. Wrap solid conductor tightly clockwise, 2/3 to 3/4 of the way around terminal screw.
6. Use a torque screwdriver when a torque is recommended or required by the manufacturer.
7. When conductors larger than No. 12 A WG are installed on 15- or 20-A circuits, splice No. 12 A WG pigtails for device connections.
8. Tighten unused terminal screws on the device.
9. When mounting into metal boxes, remove the fiber or plastic washers used to hold device mounting screws in yokes, allowing metal-to-metal contact.

E. Receptacle Orientation:

1. Install ground pin of vertically mounted receptacles up, and on horizontally mounted receptacles to the left.

F. Device Plates: Do not use oversized or extra-deep plates. Repair wall finishes and remount outlet boxes when standard device plates do not fit flush or do not cover rough wall opening.

G. Arrangement of Devices: Unless otherwise indicated, mount flush, with long dimension vertical and with grounding terminal of receptacles on bottom. Group adjacent switches under single, multigang wall plates.

H. Switches:

1. Switches shall be ganged when they are together at one (1) location.
2. Lighting switches/dimmers shall be located 6 in. horizontally from door jamb, unless otherwise indicated.
3. Switches shall be installed with the OFF position down.
4. Cover plates shall be installed flush and level.

3.2 IDENTIFICATION

A. Comply with Division 26 Section "Identification for Electrical Systems:"
1. Receptacles: Identify panelboard and circuit number from which served. Use hot, stamped or engraved machine printing with black-filled lettering on face of plate, and durable wire markers or tags inside outlet boxes.

3.3 FIELD QUALITY CONTROL

A. Perform tests and inspections and prepare test reports:
1. Test Instruments: Use instruments that comply with UL 1436.
2. Test Instrument for Convenience Receptacles: Digital wiring analyzer with digital readout or illuminated LED indicators of measurement.

B. Tests for Convenience Receptacles:
1. Line Voltage: Acceptable range is 105 to 132 Volt.
2. Percent Voltage Drop under 15-A Load: A value of 6 percent or higher is not acceptable.
3. Ground Impedance: Values of up to 2 ohms are acceptable.
4. GFCI Trip: Test for tripping values specified in UL 1436 and UL 943.
5. Using the test plug, verify that the device and its outlet box are securely mounted.
6. The tests shall be diagnostic, indicating damaged conductors, high resistance at the circuit breaker, poor connections, inadequate fault current path, defective devices, or similar problems. Correct circuit conditions, remove malfunctioning units and replace with new ones, and retest as specified above.

3.4 INSTRUCT OWNER’S PERSONNEL

A. Provide instruction to Owner’s personnel in complete operation of occupancy sensors, gas detection monitoring system and paddle fans. Provide one period of four hours.

B. Training session shall be videotaped by Electrical Contractor. Video shall be turned over to the Using Agency.

END 26 27 26