



Construction Contract Administration, Procurement, Contracts & Materials Management (PCMM)
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October 7, 2016

Oregon State University
Construction Contracts Administration
Gill Coliseum Seating Install

ADDENDUM NO. 1

THIS ADDENDUM IS BEING ISSUED for clarification and/or revisions of the drawings and specifications as noted. This document is hereby made a part of the Contract Documents to the extent as though it was originally included herein.

The following changes shall be made to the SCOPE CHANGE:

- Item 1 In Division 1, section 011100 1.01 B, Summary of Work, change to: Priority of the seating installation should go as follows: Work is to be sequenced with the south side first, east side second, then west, and finally north. Work must be fully completed for the south and the east side by **12:00PM Local Time, November 4, 2016**. The remaining two sides (west and north) must be fully completed by **12:00PM Local Time, December 23, 2016**. Work must be coordinated/ scheduled during the following times: There are three windows in the calendar to complete the work. The first is October 18, 2016 to November 3, 2016. Though there are home volleyball games on the 28th and 30th, work can occur. No floor seating will be available during that time. The 2nd window is November 29, 2016 thru December 9th. The third window is December 15, 2016 thru December 23, 2016. (See attached athletic master schedule - included).
- Item 2 Added Division 26 00 00 Basic Electrical Materials and Methods. Contractor to update the power to be 208. It will take pulling an additional wire thru the existing conduit. The outlet is currently a 20amp plug, which is the new requirement also. (Electrical Spec. included.)

QUESTIONS/CLARIFICATIONS:

- Item 3 OSU will store the new Irwin Seats and frames until they ready to be installed. It will be the contractor's responsibility to move the seats and frames to the installation location in Gill Coliseum when they are ready to be installed.
- Item 4 Contractor is also responsible for their parking permits.

END OF ADDENDUM NO. 1

OSU Athletics MASTER CALENDAR (spectator events): 2016-17

		Men's Soccer		Women's Soccer		Volleyball		Men's Basketball		Women's Basketball		All Times Eastern	
		Swimming		Baseball		Softball		Track & Field		Rowing		Gymnastics	
		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
		Monday											
AUGUST		1	2	3	4	5	6	7	8	9	10	11	12
8	9	10	11	11	11	12	12	12	12	13	13	14	14
15	16	17	18	18	18	19	19	19	19	20	20	21	21
22	23	24	25	25	25	26	26	26	26	27	27	28	28
29	30	31	1	1	1	2	2	2	2	3	3	4	4
5	6	7	8	8	8	9	9	9	9	10	10	11	11
12	13	14	15	15	15	16	16	16	16	17	17	18	18
19	20	21	22	22	22	23	23	23	23	24	24	25	25
26	27	28	29	29	29	30	30	30	30	1	1	2	2
3	4	5	6	6	6	7	7	7	7	8	8	9	9
10	11	12	13	13	13	14	14	14	14	15	15	16	16
17	18	19	20	20	20	21	21	21	21	22	22	23	23
24	25	26	27	27	27	28	28	28	28	29	29	30	30
31	1	2	3	3	3	4	4	4	4	5	5	6	6
7	8	9	10	10	10	11	11	11	11	12	12	13	13
14	15	16	17	17	17	18	18	18	18	19	19	20	20
21	22	23	24	24	24	25	25	25	25	26	26	27	27
28	29	30	1	1	1	2	2	2	2	3	3	4	4
5	6	7	8	8	8	9	9	9	9	10	10	11	11
12	13	14	15	15	15	16	16	16	16	17	17	18	18
19	20	21	22	22	22	23	23	23	23	24	24	25	25
26	27	28	29	29	29	30	30	30	30	31	31	1	1
2	3	4	5	5	5	6	6	6	6	7	7	8	8
9	10	11	12	12	12	13	13	13	13	14	14	15	15
16	17	18	19	19	19	20	20	20	20	21	21	22	22
23	24	25	26	26	26	27	27	27	27	28	28	29	29
30	31	1	2	2	2	3	3	3	3	4	4	5	5
6	7	8	9	9	9	10	10	10	10	11	11	12	12
JANUARY		13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	28	28	29	29	29	29	30	30	31	31
FEBRUARY		1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	16	16	17	17	17	17	18	18	19	19
20	21	22	23	23	23	24	24	24	24	25	25	26	26
27	28	29	30	30	30	1	1	1	1	2	2	3	3
4	5	6	7	7	7	8	8	8	8	9	9	10	10
11	12	13	14	14	14	15	15	15	15	16	16	17	17
18	19	20	21	21	21	22	22	22	22	23	23	24	24
25	26	27	28	28	28	29	29	29	29	30	30	31	31

FAPART 1 -GENERAL**1.1 WORK INCLUDED**

- A. The intent of Division 26 00 00 Specifications and the accompanying Drawings is to provide a complete and workable facility with complete systems as shown, specified and required by applicable codes. Include all work specified in Division 26 00 00 and shown on the accompanying Drawings, including appurtenances, connections, etc., in the finished job.
- B. The Division 26 00 00 Specifications and the accompanying Drawings are complementary and what is called for by one shall be as binding as if called for by both. Items shown on the Drawings are not necessarily included in the Specifications and vice versa.
- C. Imperative language is frequently used in Division 26 00 00 Specifications. Except as otherwise specified, requirements expressed imperatively are to be performed by the Contractor.
- D. Provide complete ground systems as specified herein and shown on the Drawings. Include conduit system, transformer housings, switchboard frame and neutral bus, motors, and miscellaneous grounds required.
- E. Clearly and properly identify the complete electrical system to indicate the loads served or the function of each item of equipment completed under this work.

1.2 RELATED WORK

- A. The General and Supplemental Conditions apply to this Division, including but not limited to:
 - 1. Drawings and Specifications.
 - 2. Public Ordinances, Permits.
 - 3. Payments and fees required by governing authorities for work included in this Division.
 - 4. Change Orders.
- B. Division 1, General Requirements apply to this Division.
- C. All Sections of Division 26 00 00, Electrical Specifications, are interrelated and shall be considered in their entirety when interpreting any material, method or direction listed in any Section of Division 16.
- D. Where specified materials or methods exceed minimum standards allowed by applicable codes, the more stringent requirement shall apply.

1.3 APPLICABLE PUBLICATIONS

- A. The latest adopted revisions of the publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.
 - 1. Oregon Specialty Codes
 - 2. National Electrical Code (NEC).
 - 3. National Fire Protection Association (NFPA).

4. National Electrical Manufacturers Association (NEMA).
5. National Electrical Contractors Association (NECA).
6. American National Standards Institute (ANSI).
7. Institute of Electrical and Electronic Engineer.
8. Underwriters Laboratories (UL).
9. Federal Specifications (Fed. Spec.).
10. Oregon Administrative Rules (OAR).
11. American Disabilities Act (ADA).

1.4 SITE VISITATION

- A. The Contractor shall visit the site prior to bidding and become familiar with existing conditions and all other factors which may affect the execution of the work. Include all related costs in the bid.

1.5 COORDINATION OF WORK

- A. Conduct work in a manner to cooperate with all other trades for proper installation of all items of equipment. Consult the Drawings of all other trades or crafts to avoid conflicts with cabinets, counters, equipment, structural members, etc. In general, the architectural drawings govern but conflicts shall be resolved with the Owner's Authorized Representative prior to rough-in.
- B. Verify the physical dimension of each item of electrical equipment to fit the available space. Coordination of the equipment to fit into the available space and the access routes through the construction shall be the Contractor's responsibility. V
- C. Coordinate rough-in and wiring requirements for all equipment provided under other divisions of the work and requiring electrical connections with equipment supplier and installer. Make installation and connections in accordance with rough-in and wiring diagrams provided for Contractor's use. Arrange raceways, wiring and equipment to permit ready access to switches, motors and control components. Doors and access panels shall be kept clear.
- D. Coordinate all aspects of the electrical, telephone and other utility services with the appropriate serving utility. No additional compensation will be allowed the Contractor for connection fees or additional work or equipment not covered in the Drawings or Specifications which are a result of policies of the serving utility.

1.6 WARRANTY

- A. Provide a written warranty covering the work done under this Division as required by the General Conditions. Incandescent lamps will be excluded from this warranty.

B. Apparatus:

1. Free of defects of material and workmanship and in accord with the Contract Documents.
2. Built and installed to deliver its full rated capacity at the efficiency for which it was designed.
3. Operate at full capacity without objectionable noise or vibration.

C. Systems: Any system damage caused by failures of any system component shall be included.

PART 2- PRODUCTS**2.1 MATERIALS**

- A. Electrical products installed in this project shall be listed by a recognized testing laboratory or approved in writing by the local inspection authority as required by governing codes and ordinances.
- B. Materials shall be new, of the best quality and American made. The materials shall be manufactured in accordance with NEMA, ANSI, U.L. or other applicable standards.

PART 3 -EXECUTION**3.1 INSTALLATION**

- A. Provide a complete properly operating system for each item of equipment called for under this Work. Installations shall be in accord with the equipment manufacturer's instructions, the best industry practices and the contract documents. Where a conflict in these guides appear, the Owner's Authorized Representative shall be requested to provide proper clarification before work is roughed in and that decision will be final. Work installed without such clarification shall be removed and corrected by the Contractor at no cost to the Owner.
- B. Make installation in a neat, finished and safe manner, according to the latest published NECA Standard of Installation under competent supervision.
- C. Install intumescent material around ducts, conduits, etc. to prevent spread of smoke or fire where installed in sleeves or block-outs penetrating rated fire barriers. The penetration sealing system must be capable of passing a 3-hour test per ASTM E-814 (UL 1479) and must consist of a material capable of expanding nominally eight times when exposed to temperatures of 250-350°F. An alternate method utilizing intumescent materials in caulk and/or putty form may be used.

3.2 NOISE CONTROL

- A. Outlet boxes at opposite sides of partitions shall not be placed back to back nor straight through boxes be employed, except where specifically permitted on the Drawings by note, to minimize transmission of noise between occupied spaces.
- B. All penetrations through sound rated partitions shall be, grouted solid and airtight. Conduits within sound rated partitions shall be flexible metallic type.

- C. Contactors, transformers, starters and similar noise producing devices shall not be placed on walls which are common to occupied spaces unless specifically called for on the Drawings. Where such devices must be mounted on walls common to occupied spaces, they shall be shock mounted or isolated in such a manner as to effectively prevent the transmission of their inherent noise to the occupied space.
- D. Ballasts, contactors, starters, transformers and like equipment which are found to be noticeably noisier than other similar equipment on the project will be deemed defective and shall be replaced.

3.3 EQUIPMENT CONNECTIONS

- A. Provide complete electrical connections for all items of equipment requiring such connections, including incidental wiring, materials, devices and labor necessary for a finished working installation.
- B. Verify the location and method for connecting to each item of equipment prior to roughing-in. Check the voltage and phase of each item of equipment before connecting.
- C. Make motor connections for the proper direction of rotation. Minimum size flex for mechanical equipment shall be 1/2 inch except at small control devices where 3/8-inch flex may be used. Exposed motor wiring shall be jacketed metallic flex with 6 inches minimum slack loop.
- D. Control devices and wiring relating to the HVAC systems will be furnished and installed under Division 15 except for provisions or items specifically noted on the electrical Drawings or specified herein.

3.4 EQUIPMENT SUPPORT

- A. Each fastening device and support for electrical equipment, luminaires, panels, outlets and cabinets shall be capable of supporting not less than four times the ultimate weight of the object or objects fastened to or suspended from the building structure.
- B. Properly and adequately support luminaires installed under this work from the building structure. Supports shall provide proper alignment and leveling of luminaires. Flexible connections where permitted to exposed luminaires shall be neat and straight, without excess slack, attached to the support device.
- C. Support all junction boxes, pull boxes or other conduit terminating housings located above the suspended ceiling from the floor above, roof or structure to prevent sagging or swaying.

3.5 ALIGNMENT

- A. Install panels, cabinets and equipment level and plumb, parallel with structural building lines. Switch gear panels and all electrical enclosures shall fit neatly without gaps, openings or distortion. Properly and neatly close all unused openings with approved devices.
- B. Fit surface panels, devices and outlets with neat, appropriate trims, plates or covers, without over-hanging edges, protruding corners or raw edges, to leave a finished appearance.

3.6 SEISMIC RESTRAINT

- A. Provide structural bracing of equipment to resist lateral earthquake forces based on Oregon Structural Specialty Code requirements. Design and construct seismic bracing in accordance with the following and as shown on the drawings.
 - 1. Latest edition of Oregon Structural Specialty Code.

2. Submit shop drawings showing seismic bracing of conduits and cable tray and anchorage of equipment including restraints and bolt sizing with calculations with stamp and seal of engineer registered in the State of Oregon.
3. All conduit crossing building seismic joints are to be provided with anchors and flexible connectors.

3.7 CUTTING AND PATCHING

- A. Include cutting, patching and restoration of finishes necessary for this work. Surfaces damaged by this Work and spaces around conduits passing through floors and walls shall be neatly patched and finished to match the adjacent construction, including painting or other finishes. Clean up and remove all dirt and debris. This work shall all be performed to the satisfaction of the Owner's Authorized Representative.
- B. Where equipment installations or connections require the installation of an access panel, arrange with Contractor to provide a properly sized and installed access panel similar to those used for mechanical equipment access.

3.8 PROTECTION OF WORK

- A. Protect all electrical work and equipment installed under this Division against damage by other trades, weather conditions or any other causes. Equipment found damaged or in other than new condition will be rejected as defective.
- B. Switch gear, transformers, panels, luminaires and all electrical equipment shall be kept covered or closed to exclude dust, dirt and splashes of plaster, cement or paint and shall be free of all such contamination before acceptance. Enclosures and trims shall be in new condition, free of rust, scratches and other finish I defects. Properly refinish in a manner acceptable to the Owner's Authorized Representative, if damaged.

3.9 MAINTENANCE OF SERVICE

- A. Electrical service shall be maintained to all functioning portions of the building throughout construction, except as noted below, during all normal working hours of the building occupants. Outages to occupied areas shall be kept to a minimum and be pre-arranged with the Owner's Authorized Representative. Contractor will be liable for any damages resulting from unscheduled outages or for those not confined to the pre-arranged times.
- B. Signal and communication systems and equipment shall be kept in operation wherever these serve occupied or functional portions of the building. Outages of these facilities shall be treated the same as electrical power outages.
- C. Telephone services where required during the construction work will be maintained by the Owner's communications personnel. This work shall be coordinated with the Owner's Authorized Representative and in such a manner that service, as required by the building occupants, can be readily installed and maintained.
- D. Include all costs for temporary facilities, overtime labor and necessary provisions to maintain electrical services in the initial bid proposal. Temporary wiring and facilities, if used, shall be removed and the site left clean before final acceptance.

3.10 DEMOLITION AND SALVAGE

- A. Remove all electrical panelboards, bus risers, equipment, associated feeders, luminaires to include disposal of lamps and ballasts, etc. as may be encountered in remodeled areas in the existing construction affected by this work. Disconnect electrical service to hard wired equipment scheduled for removal under other Divisions of Work. Wiring which serves usable existing outlets shall be restored and routed clear of the construction or demolition. Safely cut off and terminate all wiring to be abandoned and remove to leave site clean.
- B. Existing concealed conduits in good condition may be reused for installation of new wiring where available. Existing undamaged, properly supported surface conduits may be reused where surface conduits are called for, provided the installation meets all workmanship requirements of the Specifications. Where new wiring is added or existing wiring disturbed in existing branch circuit raceways, all existing wires shall be replaced with new.
- C. Removed materials shall become the property of the Contractor for removal from the site.
- D. All branch circuit conduit, wire and devices shall be disconnected from service by Division 26 00 00.
- E. Maintain all power and communication services routed through areas scheduled for demolition required to serve occupied spaces during phased construction.

3.11 ASBESTOS-BEARING MATERIALS

- A. If during the course of work, the Contractor observes the existence of asbestos or asbestos-bearing materials, the Contractor shall immediately terminate further work on the project and notify the Owner of the condition. The Owner will determine a further course of action.

3.12 COMPLETION AND TESTING

- A. Upon completion, systems shall be tested to show the equipment installed operates as designed and specified, free of faults and unintentional grounds. The system tests shall be set up for as many at one time as possible to work into construction phasing.
- B. A written record of performance tests shall be compiled, dated, witnessed, and submitted along with operating and maintenance data, to the Owner prior to final acceptance.

END OF SECTION 26 00 00