



University Information Technology Services (UITS)

Request for Proposals for Structured Cabling and Equipment Installation Services in the Phoenix Area

**Please mark all proposal submission
Files with the following information**

**Sealed RFP # L302603
Due on February 13th, 2026, no later than 1:00 PM, MST**

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For
REQUEST FOR PROPOSALS NO. L302603

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PROCUREMENT AND CONTRACTING SERVICES REQUEST FOR PROPOSALS, RFP #L302603

1.0 STATEMENT OF WORK

- 1.1 **Summary.** The Arizona Board of Regents (ABOR), on behalf of the University of Arizona, is soliciting proposals from interested vendors to furnish the University with Structured Cabling and Equipment Installation Services in the Phoenix Area.
- 1.2 **Coverage and Participation.** The intended coverage of this RFP and any Agreement resulting from this solicitation shall be for the use of University of Arizona's University Information Technology Services.

2.0 DEFINITIONS

- 2.1 **Agreement / Contract.** All types of agreements entered into by the Arizona Board of Regents, regardless of what they may be called, for the procurement of materials, services or construction, or the disposal of materials. Meaning is interchangeable.
- 2.2 **Customer.** Unless otherwise implied by the context of the specific provision within this RFP, "Customer" means a customer of the vendor, other than the University.
- 2.3 **Contractor.** Same as Successful Vendor.
- 2.4 **May, Should.** Indicates something that is not mandatory but permissible, recommended, or desirable.
- 2.5 **MST.** Mountain Standard Time. We **do not** observe Daylight Savings Time.
- 2.6 **Must, Shall, Will.** Indicates a mandatory requirement. Failure to meet these mandatory requirements may result in the rejection of your proposal as non-responsive.
- 2.7 **Proposal.** The entirety of the vendor's responses to each point of this RFP, including any and all supplemental offers or information not explicitly requested within this RFP.
- 2.8 **Proprietary Information.** Information held by the owner that if released to the public or anyone outside the owner's organization, would be detrimental to its interests. It is an issue of fact rather than opinion. Pricing and/or revenues cannot be considered proprietary or confidential.
- 2.9 **Provider.** Same as Vendor.
- 2.10 **Request for Proposals (RFP).** A competitive process under which discussions and negotiations are allowed, it is not to be confused with a Request for Bid (RFB), in which goods or services are precisely specified and price is the only competitive factor. This RFP provides

the University the flexibility to negotiate to arrive at a mutually agreeable relationship. Price will be considered but will not be the only factor of evaluation.

2.11 Respondent. Same as Vendor.

2.12 Response. Same as Proposal.

2.13 Responsible Vendor. A person who has the capability, including necessary experience, to perform the contract requirements; who has the integrity and reliability which will ensure good faith performance and appropriate quality of the materials, services, construction or construction services, to be provided; and who is in compliance with any and all licensing requirements of the State of Arizona.

2.14 Responsive Vendor. A person who submits a proposal which conforms in all material respects to the Request for Proposals.

2.15 Successful Vendor. Any vendor selected by the University to receive a notice of award as a result of this RFP and to enter into a contract to provide the University with the products or services sought by this RFP.

2.16 Supplemental Agreement. Any supplemental terms and conditions agreed to by the parties in writing, which take precedence over all other documents governing the transaction.

2.17 Supplier. Same as Vendor.

2.18 University. Arizona Board of Regents (ABOR), a body corporate, for and on behalf of the University of Arizona.

2.19 Vendor. For purposes of this RFP, "Vendor" means any entity responding to this RFP with the intention of winning the resulting award of contract, performing the work, and/or delivering the goods specified herein.

2.20 Vendor's Proposal. Same as Proposal.

2.21 Vendor's Response. Same as Proposal.

3.0 GENERAL INFORMATION AND INSTRUCTIONS TO PROPOSERS

3.1 Original RFP Document. The Office of Procurement and Contracting Services shall retain the RFP, and all related terms and conditions, exhibits and other attachments, in their original form in an archival copy. Any modification of these, in the vendor's submission, is grounds for immediate disqualification.

3.2 About the University. For information about the University of Arizona, please visit the University's Internet web page at: www.arizona.edu/. For specific demographic information, visit <http://uair.arizona.edu/content/overview>.

University Purpose and Core Values. The University of Arizona's purpose is working together to expand human potential, explore new horizons and enrich life for all. To fulfill this purpose, the University has adopted Core Values that apply to all faculty, staff, and students,

as well as to those doing business with the University. The Core Values are central to the culture of the University, and Vendors are encouraged to review and uphold the following:

- Integrity – Be honest respectful and just
- Compassion – Choose to Care
- Exploration – Be insatiably curious
- Adaptation – Stay open-minded and eager for what's next
- Inclusion – Harness the power of diversity
- Determination – Bear Down

For additional information regarding the University's Purpose and Core Values, please visit <https://www.arizona.edu/purpose-values>.

3.3 Schedule of Events. The following is the tentative schedule that will apply to this RFP but may change in accordance with the University's needs.

01-09-2026 Issuance of RFP
01-23-2026 **Mandatory Pre-Proposal Conference(REMOTE)**
Location: Please email zfforier@arizona.edu for Zoom link
Time: 1:00 PM – 2:00 PM, Arizona Standard time
01-30-2026 Technical Questions/Inquiries due no later than 1:00 PM, MST
02-13-2026 RFP is Due, no later than 1:00 PM, MST

3.4 Pre-Proposal Conference. A mandatory remote pre-proposal conference will be held for vendors who intend to respond to this RFP. The purpose of the conference is to provide questions and answers regarding terms, conditions, or specifications of the RFP. The University will not be responsible for additional compensation because the vendor did not acquaint themselves with all the available conditions and information nor shall it relieve the vendor from any responsibility for properly performing the project work.

Notification of attendance should be made to Zane Forier, at telephone # 520-626-2405, or email: zfforier@arizona.edu.

Date: January 23rd, 2026
Time: 1:00 PM – 2:00 PM, Arizona Standard time
Place: Zoom Link will be provided on request.

The University will not accept a proposal from any vendor who did not have a representative attend the mandatory pre-proposal conference.

The Buyer may choose to call for additional pre-proposal conference(s) if, in the sole judgment of the Buyer, there is a need for such conference(s) in order to promote competition. The Buyer may choose to call for additional pre-proposal site visit(s) if, in the sole judgment of the Buyer, there is a need for such visit(s) in order to promote competition.

3.5 Accommodations for People with Disabilities. If the vendor or any of the vendor's employees participating in this RFP need or have questions about the University's accommodations for people with disabilities, please make arrangements with Zane Forier at telephone # 520-626-2405, email address zfforier@arizona.edu. Such requests should be made as early as possible to allow time to arrange the accommodation(s).

3.6 PROPOSAL PREPARATION INSTRUCTIONS

- 3.6.1 Vendor's Understanding of the RFP.** In responding to this RFP, the vendor accepts the responsibility fully to understand the RFP in its entirety, and in detail, including making any inquiries to the University as necessary to gain such understanding. The University reserves the right to disqualify any vendor who demonstrates less than such understanding. Further, the University reserves the right to determine, at its sole discretion, whether the vendor has demonstrated such understanding. Related to this, the University's right extends to cancellation of award if award has been made. Such disqualification and/or cancellation shall be at no fault, cost, or liability whatsoever to the University.
- 3.6.2 University Provides Information in Good Faith without Liability.** All information provided by the University in this RFP is offered in good faith. Individual items are subject to change at any time. The University makes no certification that any item is without error. The University is not responsible or liable for any use of the information, or for any claims attempted to be asserted therefrom.
- 3.6.3 Verbal versus Written Communication.** Verbal communication shall not be effective unless formally confirmed in writing by the specified University procurement official in charge of managing this RFP's process. In no case shall verbal communication override written communication.
- 3.6.4 Questions, Communications and Inquiries between the University and Vendors.** **All Vendor inquiries, questions and requests for clarification related to this RFP are to be directed, in writing via email, ONLY to the Buyer listed below.** Once this RFP has been sent out, Vendors **are not to contact any University Department,** other than Procurement and Contracting Services, concerning this RFP, **or risk disqualification (see Section 3.7.1 above):**

Attn: Zane Forier
Telephone No. 520-626-2405
Email Address: zfforier@arizona.edu

Applicable terms and conditions herein shall govern communications and inquiries between the University and vendors, as they relate to this RFP.

Informal communications shall include but are not limited to requests from/to vendors or vendors' representatives of any kind or capacity, to/from any University employee or representative of any kind or capacity, **with the exception of the Purchasing Department**, for information, comments, speculation, etc. Inquiries for clarifications and information that will not require addenda may be submitted verbally to the Buyer named above, at any time.

Formal communications shall include but are not limited to the following.

- Questions concerning this RFP must be submitted in writing, and be received **no later than January 30th, 2026.**
- Errors and omissions in this RFP and enhancements. Vendors shall bring to the University's attention any discrepancies, errors, or omissions that may exist within this RFP. Vendors shall recommend to the University any enhancements in respect to this RFP, which might be in the University's best interests. These must be submitted in writing and be received **no later than January 30th, 2026.**

- Inquiries about technical interpretations must be submitted in writing and be received **no later than January 30th, 2026.**
- Inquiries for clarifications / information that will **not** require addenda may be submitted verbally to the Buyer named above at any time during this process.
- Verbal and/or written presentations and pre-award negotiations under this RFP.
- Addenda to this RFP.

Informal communications shall cease on the date of distribution of this RFP and formal communications shall commence. On the date that the University notifies responding vendors of this RFP's results and executes the resulting contract with the successful Vendor, informal communications may resume, and formal communications may cease.

- 3.6.5 Addenda and the University's Response to Communications from Vendor.** The University will make a good-faith effort to provide a written response to each question or request for clarification that requires addenda within five (5) University business days.

All addenda will be posted to our web site only:

<https://vendors.arizona.edu/rfpb-opportunities>

- ***Vendors who want the addenda supplied to them in another form must notify Zane Forier. Otherwise, it will be the vendor's responsibility to check the web site for any additional information and addenda concerning this RFP.***

The University will not respond to any questions / requests for clarification that require addenda, if received by the University after January 30th, 2026.

- 3.6.6 Pricing and/or Revenue Proposal.** Vendors shall indicate pricing and/or revenue offers in the appropriate spaces and/or areas provided in this RFP. The University may presume and hold as the vendor's final offer all pricing and/or revenue offerings, whether stated as amounts or percentages, and/or whether or not offered on an all-or-none basis, if not specified by the vendor. The University may accept or reject in part or entirely the vendor's pricing and/or revenue offerings when such offerings are not on an all-or-none basis. Vendor's pricing and/or revenue proposals may not be modified after the RFP Due date and time unless University at its sole discretion decides that future negotiations will only enhance the Vendor's offer to University. Should University decide that such negotiations would not be in University's best interests, pricing and revenue offer by Vendor at Due date and time may be considered by University as the Vendor's best and final offer. Unless otherwise specifically proposed by the vendor, the University reserves the right to hold such pricing and/or revenue proposal as effective for the entire intended contract term. The University may prescribe the manner and method by which pricing and/or revenue offerings shall be communicated in the vendor's proposal. The University may reject any proposal in which the pricing and/or revenue offering does not conform to such prescribed manner and method. Vendors shall indicate pricing and/or revenue offers in the appropriate spaces and/or areas provided in this RFP. Vendors shall ensure that any departure from this condition results in an offer that is clearly cross-referenced to the applicable sections within this RFP. For any material departure from this condition, vendors shall provide clear and unambiguous explanations how the departure relates in detail to the

applicable sections within this RFP. If the vendor responds with an "All-or-None" proposal, it shall be clearly and unambiguously marked as such.

- 3.6.7 Revisions to the RFP.** The University may revise any part of this RFP for any reason by issuing addenda. **The University will communicate additional information and addenda to this RFP by posting them on our web site.**

<https://vendors.arizona.edu/rfpb-opportunities>

- **Vendors that want the revisions supplied to them in another way must notify the Buyer listed in this document of that request. Otherwise, it will be the vendor's responsibility to check the web site for any additional information and addenda concerning this RFP.**

Vendors are responsible for the information contained in such addenda, whether or not they acknowledge receipt. The University is under no obligation to communicate such addenda to vendors who notify the University that they will not be responding to this RFP. The University may determine whether an addendum will be considered as part of this RFP and/or as part of any resultant contract. **The University shall reject vendors' responses to addenda if such responses are received after the RFP Due date and time.**

- 3.6.8 Attention to Terms and Conditions.** Vendors are cautioned to thoroughly understand and comply with all matters covered under the Terms and Conditions section of this RFP. The successful Vendor is expected to enter into a form of agreement approved by the Arizona Board of Regents. The University agreement terms and conditions included in this RFP are intended to be incorporated into this agreement. **Proposals that are contingent upon any changes to these terms and conditions may be deemed to be non-responsive and may be rejected.**

- 3.6.9 Required Signatures.** The University may reject any vendor's response if it is not signed as indicated and/or required by the areas, spaces, or forms provided within this RFP.

- 3.6.10 Proposal Organization.** Vendors shall present proposals in a format that can be readily incorporated into a contract. Vendors may present narrative proposals provided that such proposals follow the same outline and numbering scheme of this RFP, including full descriptive cross-references to all requirements listed in [Section 5.0](#). **Vendors should ensure that their proposals include page numbers and are organized in a manner that will facilitate the University's evaluation of them. The University reserves the right to reject without prior notice and without liability of any kind or amount any proposal that it deems overly complex, disorganized, or difficult to evaluate.** The University reserves the right to make such a decision without any input or communication from any other party. Vendors shall ensure that, at a minimum, their proposals contain the components set forth in the following list.

- Original required sections from this RFP (Signed forms in this document, Attachment A, Narrative Response and references)
- Any additional responses in corresponding sequence order
- Any additional supporting data

- 3.6.11 Collusion Prohibited.** In connection with this RFP, vendor collusion with other vendors or employees thereof, or with any employee of the University, is prohibited

and may result in vendor disqualification and/or cancellation of award. Any attempt by the vendor, whether successful or not, to subvert or skirt the principles of open and fair competition may result in vendor disqualification and/or cancellation of award. Such disqualification and/or cancellation shall be at no fault or liability whatsoever to the University.

3.6.12 Improper Business Relationships / Conflict of Interest Prohibited. In connection with this RFP, each vendor shall ensure that no improper, unethical, or illegal relationships or conflict of interest exists between or among the vendor, the University, and any other party to this RFP. The University reserves the right to determine the materiality of such relationships, when discovered or disclosed, whether intended or not; and to decide whether or not vendor disqualification and/or cancellation of award shall result. Such disqualification and/or cancellation shall be at no fault or liability whatsoever to the University.

3.6.13 Corrections, Changes, and Providing Information on Forms within the RFP. Vendors shall ensure that an authorized individual initials each correction using pen and ink. Vendors shall use pen and ink or typewriter in providing information directly on pages, or copies thereof, contained within this RFP.

3.6.14 Proposal Bond. Not Applicable.

3.6.15 Performance and / or Payment Bonds. Not Applicable.

3.6.16 Anti-Kickback. In compliance with FAR 52.203-7, the University has in place and follows procedures designed to prevent and detect violations of the Anti-Kickback Act of 1986 in its operations and direct business relationships.

3.7 PROPOSAL SUBMISSION AND SUBSEQUENT ACTION

Proposals must be received by the date / time and uploaded to the University's Online secure box no later than **February 13th 2026, 1:00PM MST**.

Vendors, please be advised that it is **your sole responsibility** to ensure that your proposal is received as described in the paragraph above. The University shall not be responsible for any delays that may occur.

Proposals must be **uploaded** to:

Box Secure Upload:

<https://arizona.app.box.com/f/e912413537374befb32bc92568c21402>

Please title your response in the upload folder as:

RFP#L302603_VendorName_Response

****Vendor please note: no more than two files should be uploaded:**

- **a PDF response that includes your narrative proposal and all required documents, references, certificates and licences. All forms requiring signatures should be signed and included in this PDF.**
- **A completed Attachment A spreadsheet. Ensure all Tabs have been completed.**

- **You may include a redacted copy if necessary provided it is submitted per the requirements in section 3.7.3****

no later than February 13th 2026, 1:00PM MST. The University shall, at the specified Due date and time, accept all proposals that are otherwise in order. The University will allow interested parties to be present via zoom for the purpose of identifying which vendors have responded, if requested. The University will make no immediate decision at such time, and **there will be no disclosure of any information contained in any proposal until after formal notice of award and execution of any contract resulting from this RFP.** When multiple solicitations have been scheduled to open at the same date and time, the University will open solicitations that have interested individuals present in sequential order by solicitation number. **The University will hold unopened any proposals received after the Due date and time and will not consider such proposals.** The University reserves the right to retain or dispose of such proposals at its discretion; however, the University may return such proposals to their related vendors, but only at such vendor's request and at no cost or expense whatsoever to the University.

If the University determines that due to an insufficient number of proposals received, it would be in the University's best interest, the University may extend the Due date to determine why other vendors did not respond and to encourage other vendors to respond.

- 3.7.1 Proposal Costs.** The University is not liable in any manner or to any extent for any cost or expense incurred by any vendor in the preparation, submission, presentation, or any other action connected with proposing or otherwise responding to this RFP. Such exemption from liability applies whether such costs are incurred directly by the vendor or indirectly through the vendor's agents, employees, assigns or others, whether related or not to the vendor.
- 3.7.2 Withdrawal of RFP.** Vendors may withdraw their proposals any time prior to the RFP Due date and time. Vendors may request to withdraw their proposals after the RFP Due date and any time prior to selection and notice of award. The University shall have sole authority to grant or deny such a request. In the event the University grants such a request, it may withhold issuing future RFPs to such vendors.
- 3.7.3 University's Right to Use Vendor's Ideas / Proprietary Information.** If the vendor needs to submit proprietary information with the proposal, the vendor **shall ensure that it is enclosed in a separate redacted file from the proposal and that it is clearly designated and conspicuously labeled as such. The vendor may submit a full PDF for the committee and a redacted file for proprietary and confidential information within the guidelines below.**

The University shall have the right to use any ideas that are contained in any proposal received in response to this RFP, along with any adaptation of such ideas. Selection or rejection of the proposal shall not affect the University's right of use. Provided, however, that the University will, in good faith, honor any vendor information that is **redacted and saved as a separate file from the proposal and clearly designated and conspicuously labeled as proprietary, and the University concurs that the information is proprietary. The file must also contain the reason(s) why the enclosed material is to be considered proprietary.**

Trade secrets or other proprietary data contained in the proposal documents shall be maintained as confidential in accordance with procedures promulgated by the Procurement Officer and subject to limitations in Arizona or Federal law. **Pricing**

information cannot be considered proprietary or confidential. The University shall not be liable in any manner or in any amount for disclosing proprietary information if such information is not clearly so designated and conspicuously so labeled. The University shall likewise not be liable if it did not know or could not have reasonably known that such information was proprietary. **At no time will the entire proposal be considered proprietary and be kept confidential. If the entire proposal is marked as confidential and/or proprietary and no redacted copy is sent, the University will not consider any part of the proposal confidential.**

3.8 EVALUATION PROCESS AND AWARD

- 3.8.1 Contractual Intent / Right to Terminate and Recommence RFP Process.** The University intends to contract with one or more vendors whose proposal(s) are considered to be in the best interests of the University. However, the University may terminate this RFP process at any time up to notice of award, without prior notice, and without liability of any kind or amount. Further, the University reserves the right to commence one or more subsequent RFP processes seeking the same or similar products or services covered hereunder.
- 3.8.2 Effective Period of Proposals.** Under this RFP, the University shall hold that vendors' responses to this RFP shall remain in effect for a period of ninety (90) days following the Due date, in order to allow time for evaluation, approval, and award of the contract. Any vendor who does not agree to this condition shall specifically communicate in its proposal such disagreement to the University, along with any proposed alternatives. The University may accept or reject such proposed alternatives without further notification or explanation.
- 3.8.3 Proposal Acceptance/Rejection.** The University reserves the right to reject any or all proposals. Such rejection may be without prior notice and shall be without any liability of any kind or amount to the University. The University shall not accept any proposal that the University deems not to be in its best interests. The University shall reject proposals submitted after the Due date and time.
- 3.8.4 Errors and Omissions in Vendors Proposals.** The University may accept or reject any vendor's proposal, in part or in its entirety, if such proposal contains errors, omissions, or other problematic information. The University may decide upon the materiality of such errors, omissions, or other problematic information.
- 3.8.5 Determination of and Information Concerning Vendor's Qualifications.** The University reserves the right to determine whether a vendor has the ability, capacity, and resources necessary to perform in full any contract resulting from this RFP. The University may request from vendors information it deems necessary to evaluate such vendors' qualifications and capacities to deliver the products and/or services sought hereunder. The University may reject any vendor's proposal for which such information has been requested but which the vendor has not provided. Such information may include but is not limited to:
- Financial resources
 - Personnel resources
 - Physical resources
 - Internal financial, operating, quality assurance, and other similar controls and policies

- Resumes of key executives, officers, and other personnel pertinent to the requirements of the RFP
- Customer references
- Disclosures of complaints or pending actions, legal or otherwise, against the vendor

3.8.6 Apparently Conflicting Information Obtained by Vendor. The University is under no obligation whatsoever to honor or observe any information that may apparently conflict with any provision herein, regardless of whether such information is obtained from any office, agent, or employee of the University. Such information shall not affect the vendor's risks or obligations under a contract resulting from this RFP.

3.8.7 Rejection of Vendor Counter-offers, Stipulations and Other Exceptions. Any vendor exception, stipulation, counter-offer, requirement, and/or other alternative term or condition shall be considered rejected unless specifically accepted in writing by the University and thereafter incorporated into any contract resulting from this RFP.

3.8.8 Method of Award. Each response to this RFP will be reviewed for its overall competence, compliance, format, and organization. Proposals which the University deems overly complex, disorganized, or difficult to evaluate may be rejected in accordance with [Section 3.6.10](#) of this RFP. The award shall be made to the responsive and responsible vendor whose proposal is determined to be the most advantageous to the University of Arizona, taking into consideration the following evaluation criteria listed in the relative descending order of importance. Pricing must be a criterion. However, the University is under no obligation whatsoever to select, as most responsive the proposal that demonstrates the lowest pricing.

Evaluation Criteria

Limiting Criteria. *All submissions that fail to meet the Limiting Criteria will not receive further evaluation.*

- Contractors are required to have a valid State of Arizona C-67 (or other Arizona equivalent) contracting license.
- Contractors are to be registered with Arizona Corporation Commission for a minimum period of four years.
- Contractors are required to be a current Commscope Systimax Certified Installer AND authorized to participate in the Commscope Systimax 25-year Warranty Program.

Evaluation Criteria

- Prior Experience
- Pricing
- Staff Resources
- Quality Control Plan
- Response Time – Emergency Call Out
- Response Time- Estimate Requests

The contract will consist of the University's RFP, the proposal with any and all revisions, award letter, and/or purchase order, and/or the signed agreement between the parties, as stated in that agreement.

- 3.8.9 Selection, Negotiation, Additional Information.** Although the University reserves the right to negotiate with any vendor or vendors to arrive at its final decision and/or to request additional information or clarification on any matter included in the proposal, it also reserves the right to select the most responsive and responsible vendor or vendors without further discussion, negotiation, or prior notice. The University may presume that *any proposal is a best-and-final offer*.
- 3.8.10 Pre-Award Presentations.** The University reserves the right to require presentations from the highest ranked vendors, in which they may be asked to provide information in addition to that provided in their proposals.
- 3.8.11 Pre-Award Negotiations.** The University reserves the right to negotiate prior to award with the highest ranked vendors for purposes of addressing the matters set forth in the following list, which may not be exhaustive.
- Resolving minor differences and scrivener's errors
 - Clarifying necessary details and responsibilities
 - Emphasizing important issues and points
 - Receiving assurances from vendors
 - Obtaining the lowest and best pricing and/or revenue agreement
- 3.8.12 Notification of Non-Selection.** The University reserves the right not to notify vendors whose RFP responses are not selected for further consideration or notice of award. If the University decides to notify such vendors in writing, it will send the notifications to the email contact address indicated in each such vendor's proposal. Once the award has been finalized, a notice of award may be posted on our [website](#).
- 3.8.13 Vendor's Need to Use Proprietary Rights of the University.** All information proprietary to the University and disclosed by the University to any vendor shall be held in confidence by the vendor and shall be used only for purposes of the vendor's performance under any contract resulting from this RFP.
- 3.8.14 Public Record.** After the award and execution of a contract resulting from this RFP, vendors' proposals become public record and are available for review during the University's regular office hours. The University will, in good faith and to the extent allowed by law, honor any vendor information that is clearly designated and conspicuously labeled as proprietary, and the University agrees that the information is proprietary. If the vendor needs to submit proprietary information with the proposal, the vendor **shall ensure that it is enclosed in a separate file from the proposal and that it is clearly designated and conspicuously labeled as such. The file must also contain the reason(s) why the enclosed material is to be considered proprietary.** At no time shall the entire proposal be considered proprietary and be kept confidential. The University shall not be liable in any manner or in any amount for disclosing proprietary information if such information is not clearly so designated and conspicuously so labeled. The University shall likewise not be liable if it did not know or could not have reasonably known that such information was proprietary. **Pricing information cannot be considered proprietary or confidential.**
- 3.8.15 Certification.** By signature on the "Proposal Certification" form included herein, the Vendor certifies that the submission of the proposal did not involve collusion or other anti-competitive practices. The Vendor has not given, offered to give, nor intends to give at any time hereafter any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to a public servant in connection with

the submitted proposal. In addition, Vendor certifies whether or not any employee of the University has, or has a relative who has, a substantial interest in any Agreement that may result from this RFP. Vendor also certifies their status with regard to debarment, or suspension by any Federal entity.

Failure to provide a valid signature affirming the stipulations required by this clause shall result in the rejection of the submitted proposal and, if applicable, any resulting Agreement. Signing the certification with a false statement shall void the proposal and, if applicable, any resulting Agreement. Any resulting Agreement may be subject to legal remedies provided by law. Vendor agrees to promote and offer to the University only those services and/or materials as stated in and allowed for under resulting Agreement(s).

4.0 AGREEMENT TERMS AND CONDITIONS

The following are the Terms and Conditions that will become part of any Agreement consummated between the University and the Successful Vendor. **In the event of a conflict between any provisions contained in any of the documents governing this transaction, the following shall be the order of precedence: Supplemental Agreement; Request for Proposals; Proposal.**

- 4.1 Actions of Successful Vendor.** The University is under no obligation whatsoever to be bound by the actions of any Successful Vendor with respect to third parties. The Successful Vendor is not a division or agent of the University.
- 4.2 Advertising.** The Successful Vendor shall not advertise or publish information concerning the Agreement without prior written consent of the University. The University shall not unreasonably withhold permission.
- 4.3 Americans with Disabilities Act and Rehabilitation Act.** The Successful Vendor will comply with all applicable provisions of the Americans with Disabilities Act, the Rehabilitation Act, and all applicable federal regulations.

All electronic and information technology and products and services to be used by University faculty/staff, students, program participants, or other University constituencies must be compliant with the Americans with Disabilities Act as amended and the Rehabilitation Act. Compliance means that a disabled person can acquire the same information, engage in the same interactions, and enjoy the same services as a nondisabled person, in an equally effective and integrated manner, with substantially equivalent ease of use.

- 4.3.1 Electronic and Information Technology.** Any acquisition considered electronic and information technology (EIT) as defined by the Access Board at 36 CFR 1194.4 and in the FAR at 2.101 must comply with Section 508 (36 CFR Part 1194) and, for web-based applications, WCAG 2.0, Level AA Guidelines. In addition, the submission of a completed Voluntary Product Accessibility Template (VPAT) is required so the University of Arizona may ascertain conformance. Proposals or bids without a completed VPAT may be disqualified from competition. The UA Guide to the VPAT and the templates themselves are available to assist vendors in this process. See information at <http://itaccessibility.arizona.edu/guidelines/purchasing/vpat>.

EIT is information technology (IT) and any equipment or interconnected system or subsystem of equipment that is used in the creation, conversion, or duplication of data or information. EIT includes, but is not limited to:

- telecommunication products, such as telephones;

- information kiosks and transaction machines;
- World Wide Web sites;
- software;
- multimedia (including videotapes); and
- office equipment, such as copiers and fax machines.

The University of Arizona reserves the right to perform real-world testing of a product or service to validate vendor claims regarding Section 508 conformance. To facilitate testing, the vendor will, upon request, provide the University with access to the product being considered for purchase for a period of at least 30 calendar days.

4.3.2 Services and Products. An accessible *service or product* is one that can be used by as many people as possible, taking into account their physical, cognitive, emotional, and sensory differences.

Services provided include, but are not limited to:

- education and training;
- cultural and athletic events;
- vehicle rentals
- event space and lodging; and
- parking and transportation.

Products include, but are not limited to:

- office equipment;
- office and classroom furniture; and
- kiosks

4.4 Conflict of Interest. Pursuant to the provisions of Arizona Revised Statute § 38-511, the Arizona Board of Regents may, within three years after its execution, cancel the Agreement without penalty or further obligation if any person significantly involved in negotiating, drafting, securing or obtaining the Agreement for or on behalf of the Arizona Board of Regents becomes an employee in any capacity of any other party or a consultant to any other party with reference to the subject matter of the Agreement while the Agreement or any extension thereof is in effect.

4.5 Drug Free Workplace. The Successful Vendor agrees that in the performance of the Agreement, neither the Successful Vendor nor any employee of the Successful Vendor shall engage in the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance in conducting any activity covered by the Agreement. The University reserves the right to request a copy of the Successful Vendor's Drug Free Workplace Policy. The Successful Vendor further agrees to insert a provision similar to this statement in all subcontracts for services required.

4.6 Equal Opportunity. The provisions of Section 202 of Executive Order 11246.41 C.F.R. Sec. 60-1.4.41 C.F.R. Sec. 60-250.4 and 41 C.F.R. Sec. 60-741.4 are incorporated herein by reference and shall be applicable to the Agreement unless the Agreement is exempted under the rules, regulations, or orders of the U.S. Secretary of Labor.

4.7 Federal, State, and Local Taxes, Licenses and Permits. Successful Vendor is solely responsible for complying with all laws, ordinances, and regulations on taxes, licenses, and

permits, as they may apply to any matter under this RFP. The Successful Vendor must demonstrate that they are duly licensed by whatever regulatory body may so require during the performance of the Agreement. Prior to the commencement of Agreement, the Successful Vendor shall be prepared to provide evidence of such licensing as may be requested by the University. Successful Vendor shall, at no expense to the University, procure and keep in force during the entire period of the Agreement all such permits and licenses.

- 4.8 Inspection and Audit.** Pursuant to the provisions of Arizona Revised Statute § 35-214, all books, accounts, reports, files and other records relating to the Agreement shall be subject at all reasonable times to inspection and audit by the Arizona Board of Regents, The University of Arizona or the Auditor General of the State of Arizona, or their agents for five (5) years after completion or termination of the Agreement.
- 4.9 Liens.** Each Successful Vendor shall keep the University free and clear from all liens asserted by any person or entity for any reason arising out of the furnishing of services or materials by or to the Successful Vendor.
- 4.10 Modifications.** The Agreement can be modified or rescinded only by a writing signed by both parties or their duly authorized agents.
- 4.11 Non-Discrimination.** The parties shall comply with all applicable state and federal statutes and regulations governing equal employment opportunity, non-discrimination, and immigration.
- 4.12 Sales and Use Tax.** The Successful Vendor agrees to comply with and to require all of his subcontractors to comply with all the provisions of applicable law. The Successful Vendor further agrees to indemnify and hold harmless the University from any and all claims and demands made against it by virtue of the failure of the Successful Vendor or any subcontractors to comply with the provisions of any and all said laws. The University is not exempt from state sales and use tax, except for equipment purchased for research or development. Any equipment ordered as tax exempt shall be invoiced separately from taxable systems, even if purchased on the same purchase order as issued by the University.
- 4.13 Prohibited Harassment.** Federal law and the policies of the University prohibit sexual harassment of University employees or students. Sexual harassment includes any unwelcome sexual advance toward a University employee or student, any request for a sexual favor from a University employee or student, or any other verbal or physical conduct of a sexual nature that is so pervasive as to create a hostile or offensive working environment for University employees, or a hostile or offensive academic environment for University students. University vendors, subcontractors and suppliers for this project are required to exercise control over their employees so as to prohibit acts of sexual harassment of University employees and students. The employer of any person who the University, in its reasonable judgment, determines has committed an act of sexual harassment agrees as a term and condition of the Agreement to cause such person to be removed from the project site and from University premises and to take such other action as may be reasonably necessary to cause the sexual harassment to cease.
- 4.14 Small Business Utilization Program.** The University is committed to its [Small Business Utilization Program](#) and to the development of Small Business. If subcontracting is necessary, the Successful Vendor will make every effort to use Small Businesses in the performance of the Agreement.
- 4.15 Smoking and Tobacco Policy.** This policy applies to the University of Arizona main campus in Tucson, the Arizona Health Sciences Center, the Phoenix Biomedical Center, the College of

Applied Science and Technology (UA South) and all University vehicles. This policy applies to University students, faculty, employees, contractors, volunteers, and visitors on its campuses and in its vehicles. To view the complete policy, click on <https://policy.arizona.edu/ethics-and-conduct/smoking-and-tobacco-policy>. The Successful Vendor is expected to respect this tobacco free policy and fully comply with it.

- 4.16 Export Control.** Each party shall comply with all applicable export control laws and economic sanctions programs. Applicable export control or economic sanctions programs may include U.S. export control laws such as the Export Administration Regulations and the International Traffic in Arms Regulations, and U.S. economic sanctions programs that are or may be maintained by the U.S. Government. The parties will comply with U.S. export control and U.S. economic sanctions laws with respect to the export (including a deemed export) or re-export of U.S. origin goods, software, services and/or technical data, or the direct product thereof.
- 4.17 No Boycott of Goods or Services from Israel.** If the Goods/Services provided under this Agreement include the acquisition of services, supplies, information technology or construction with a value of at least \$100,000 and Supplier is engaged in for-profit activity and has 10 or more full-time employees, then, to the extent required by ARS § 35-393.01, Supplier certifies it is not currently engaged in, and during the term of this Agreement will not engage in, a boycott of goods or services from Israel.
- 4.18 No Forced Labor of Ethnic Uyghurs.** To the extent required by A.R.S. § 35-394, Successful Vendor certifies it is not currently, and during the term of this Agreement will not use: 1) the forced labor of ethnic Uyghurs in the People's Republic of China; 2) any goods or services produced by the forced labor of ethnic Uyghurs in the People's Republic of China; or 3) any contractors, subcontractors or suppliers that use the forced labor or any goods or services produced by the forced labor of the ethnic Uyghurs in the People's Republic of China. If the Successful Vendor becomes aware during the term of the awarded agreement that it is not in compliance with this written certification, it shall notify UArizona within five (5) business days of becoming aware of the non-compliance.
- 4.19 Safety Standards.** To the extent applicable to the services to be performed under this Agreement, Contractor represents and warrants that all articles and services furnished under this Agreement meet or exceed the safety standards established and promulgated under the Federal Occupational Safety and Health Law (Public Law 91-596) and its regulations, in effect or proposed as the date of this Agreement, which shall include the following guidance provided by OSHA, available at the following link <https://www.osha.gov/coronavirus/safework>. In addition, Contractor, Contractor employees, and/or subcontractors who will be performing work in University of Arizona locations, indoor or outdoor, must review and abide by the mask requirements listed at: <https://covid19.arizona.edu/face-coverings>.
- 4.20 Arbitration.** The parties agree to arbitrate disputes filed in Arizona Superior Court that are subject to mandatory arbitration pursuant to ARS § 12-133.
- 4.21 Travel.** If authorized as part of any resulting contract, all reimbursable travel expenses must be authorized in writing by the University in advance of the planned travel and must be consistent with University Financial Policy 9.12 Independent Contractors, <https://policy.fso.arizona.edu/fsm/900/912> items 33-42. Each request for reimbursement shall be itemized and accompanied by copies of original receipts. If applicable, reimbursements for airfare shall be for standard airline coach travel only. If applicable, reimbursement for auto travel and per diem shall be made at the rate permitted for State of Arizona employees. Note that the purchase of alcohol shall not be permitted as a reimbursable expense under this Contract. Vendor will submit all receipts and any required backup documentation to the

University within 90 days after the applicable expenses were incurred. The University will not be required to reimburse Vendor for any expenses, invoices, or receipts for expenses received after that time.

- 4.22 Administrative (Legal) Remedies.** The Arizona Board of Regents has promulgated [Administrative \(Legal\) Remedies](#) for alleged breaches or disputes arising from the Agreement. These remedies are exclusive and must be exhausted before the filing of any legal action.
- 4.23 Assignment-Delegation.** No right or interest in the Agreement shall be assigned or delegation of any obligation made by Successful Vendor without the written permission of the University. Any attempted assignment or delegation by Successful Vendor shall be wholly void and totally ineffective for all purposes unless made in conformity with this paragraph.
- 4.24 Assignment of Anti-Trust Overcharge Claims.** The parties recognize that in actual economic practice overcharges resulting from anti-trust violations are in fact borne by the ultimate purchaser; therefore, Successful Vendor hereby assigns to the University any and all claims for such overcharges.
- 4.25 Date for Reckoning Prompt-Payment Discount.** For purposes of determining whether a prompt-payment discount, if applicable, may be taken by the University, the starting date of such reckoning period shall be the later of the date of a properly executed invoice or the date of completion of service and/or delivery of product.
- 4.26 Force Majeure.** Neither party shall be held responsible for any losses resulting if the fulfillment of any terms or provisions of the Agreement are delayed or prevented by any cause not within the control of the party whose performance is interfered with, and which by the exercise of reasonable diligence, said party is unable to prevent. Neither the Supplier / Contractor nor the University shall be liable for failure to perform if such failure is caused by or due to acts or regulations of public authorities, labor difficulties, civil tumult, strike, epidemic, pandemic, or any cause beyond the control of Supplier / Contractor or the University. Neither party shall be under any further obligation to the other.
- 4.27 Indemnification / Hold Harmless.** The Successful Vendor shall indemnify, defend, and hold harmless to the fullest extent allowed by law the State of Arizona, the Arizona Board of Regents and the University, its officers, agents, and employees ("Indemnitees") from any and all claims, demands, suits, actions, proceedings, loss, cost, and damages of every kind and description, including attorneys' fees and/or litigation expenses, which may be brought or made against or incurred on account of breach, or loss of or damage to any property, or for injuries to or death of any person, or financial loss incurred by Indemnitees, caused by, arising out of, or contributed to, in whole or in part, by reasons of any act, omission, professional error, fault, mistake, or negligence of Successful Vendor, its employees, agents, representatives, or subcontractors, their employees, agents, or representatives in connection with or incident to the performance of the Agreement, or arising out of Workers Compensation claims, Unemployment Compensation claims, or Unemployment Disability Compensation claims of employees of Successful Vendor and/or its subcontractors of claims under similar such laws and obligations. Successful Vendor's obligation under this provision shall not extend to any liability caused by the sole negligence of the State of Arizona, Arizona Board of Regents, University or its officers, agents, and employees. Such indemnification shall specifically include infringement claims made against any and all intellectual property supplied by Successful Vendor and third-party infringement under the Agreement.
- 4.28 Indemnification by the University.** Arizona Revised Statute § 35-154 prohibits persons from incurring obligations against the state for which funds have not been appropriated or allocated.

Arizona Attorney General's Opinion 67-36-L interprets this statute to prohibit the state and its agencies from agreeing to hold harmless or indemnify third parties. The University shall be liable for claims, damages or suits arising from the acts, omissions or negligence of its officers, agents, and employees.

4.29 Insurance Requirements. Without limiting any liabilities or any other obligations of Successful Vendor, the Successful Vendor shall provide and maintain the minimum insurance coverage listed below unless otherwise agreed to in writing. Coverage shall be provided with forms and insurers acceptable to the University until all obligations under the Agreement are satisfied.

- Commercial General Liability (CGL) insurance with minimum limits of ONE MILLION DOLLARS (\$1,000,000) each occurrence and TWO MILLION DOLLARS (\$2,000,000) general aggregate.
- Commercial Automobile Liability insurance with a minimum combined single limit of ONE MILLION DOLLARS (\$1,000,000) each occurrence.

The insurance policies required in the two statements above shall be endorsed to name the State of Arizona, Arizona Board of Regents on behalf of the University of Arizona as additional insured and shall stipulate that the insurance afforded the Successful Vendor shall be primary insurance and that any insurance carried by the State of Arizona, the Arizona Board of Regents and the University of Arizona, their agents, officials or employees shall be excess and not contributory insurance to that provided by Successful Vendor.

- If applicable, Worker's Compensation insurance in accordance with applicable Arizona Statutes, for any employees engaged in the performance of Agreement; and
- Employer's Liability insurance with a minimum limit of FIVE HUNDRED THOUSAND DOLLARS (\$500,000).

A certificate of insurance acceptable to the University shall be furnished to the University prior to the commencement of Agreement as evidence that policies providing the required coverage, conditions and limits are in full force and effect.

4.30 Additional Insurance Requirements (Consultants, Lawyers, Architects and Engineers Agreements). Not Applicable.

4.31 Additional Insurance Requirements (Medical Services Agreement). Not Applicable.

4.32 Additional Insurance Requirements (Handling Hazardous Wastes). Not Applicable.

4.33 Intellectual Property. It is understood and agreed that ownership of intellectual property developed as a result of fulfilling the requirements of this Request for Proposals belongs solely and exclusively to the Arizona Board of Regents on behalf of the University of Arizona. Documents/drawings used in this proposal belong to the Arizona Board of Regents on behalf of the University of Arizona and/or are being used with permission. Intellectual property as used herein, means all forms of legally protectable intellectual property, including copyrights, trademarks, inventions, patent applications, patents and mask works, drawings, and/or blueprints. It is also understood and agreed that anything created as a result of an award of this proposal is considered a work for hire under the U.S. copyright laws and as such, the Arizona Board of Regents on behalf of the University of Arizona will own the copyright.

4.34 Labor Disputes. Successful Vendor shall give prompt notice to the University of any actual or potential labor dispute which delays or may delay performance of the Agreement.

- 4.35 Laws and Regulations.** Successful Vendors are solely responsible for keeping themselves fully informed of and faithfully observing all laws, ordinances, and regulations affecting the rights of their employees, and shall protect and indemnify the University, its officers, and agents against any claims of liability arising from or based on any violation thereof.
- 4.36 No Waiver of Right by the University.** No waiver by University of any breach of the provisions of the Agreement by the Successful Vendor shall in any way be construed to be a waiver of any future breach or bar the University's right to insist on strict performance of the provisions of the Agreement
- 4.37 Parking.** The Successful Vendor shall obtain all parking permits and/or decals that may be required while performing project work on University premises. The Successful Vendor should contact [Parking and Transportation Services](#) located at 1117 E. Sixth St., Tucson AZ 85721-0181.
- 4.38 Performance and / or Payment Bonds.** Not Applicable.
- 4.39 Payment Terms.** Payments by the University shall be subject to the provision of Title 35 of Arizona Revised Statutes relating to time and manner of submission of claims. The University's obligation is payable only and solely from funds appropriated for the purpose of the Agreement. Unless otherwise stated herein, the payment terms for the Agreement are Net 30 days.
- 4.40 Price Adjustment for Multi-Year Contracts.** Price changes will normally only be considered at the end of one Agreement period and the beginning of another. Price change requests shall be in writing, submitted at least sixty (60) days prior to the end of the current Calander Year, and shall be supported by written evidence of increased costs to the Successful Vendor. The University will not approve unsupported price increases that will merely increase the gross profitability of the Successful Vendor at the expense of the University. Price change requests shall be a factor in the Agreement extension review process. The University shall, in its sole opinion, determine whether the requested price increase or an alternate option is in the best interest of the University.
- 4.41 Prior Course of Dealings.** No trade usage, prior course of dealing, or course of performance under other agreements shall be a part of any agreement resulting from this RFP; nor shall such trade usage, prior course of dealing, or course of performance be used in the interpretation or construction of such resulting agreement.
- 4.42 Referencing of Orders.** For each order issued against an agreement resulting hereunder, the University intends in good faith to reference this RFP for pricing, terms and conditions, delivery location, and other particulars. However, in the event the University fails to do so, the University's right to such terms, conditions, and particulars shall not be affected, and no liability of any kind or amount shall accrue to the University.
- 4.43 Remedies and Applicable Law.** The Agreement shall be governed by and construed in accordance with the laws of the State of Arizona. University and Successful Vendor shall have all remedies afforded each by said law. The venue in any action or litigation commenced to enforce the Agreement shall be instituted in the appropriate courts in Arizona.
- 4.44 Right of Assurance.** Whenever one party to the Agreement in good faith has reason to question the other party's intent to perform, he may demand that the other party give a written assurance of their intent to perform. In the event that a demand is made, and no written assurance is given within ten calendar (10) days, the demanding party may treat this failure as an anticipatory repudiation of the Agreement.

4.45 Right of Offset. The University shall be entitled to offset against any sums due the Successful Vendor, any expenses or costs incurred by the University, or damages assessed by the University concerning the Successful Vendor's non-conforming performance or failure to perform the Agreement, or any other debt owing the University, including expenses, costs and damages described in the termination provisions contained herein.

4.46 Termination

4.46.1 Convenience. The University reserves the right to terminate the Agreement in whole or in part at any time when in the best interests of the University without penalty or recourse. Upon receipt of the written notice, the Successful Vendor shall immediately stop all work as directed in the notice, notify all subcontractors of the effective date of the termination, and minimize all further costs to the University. In the event of termination under this provision, all documents, data, and reports prepared by the Successful Vendor under the Agreement shall become the property of and delivered to the University. The Successful Vendor shall be entitled to receive just and equitable compensation for work in progress, work completed, and materials accepted before the effective date of termination. Such compensation shall be the Successful Vendor's sole remedy against the University in the event of termination under this provision.

4.46.2 Cause. The resulting agreement may be terminated by either party for cause in the event of: (a) breach by the other party of a material obligation under the Agreement which is not remedied within thirty (30) days after written notice.

4.46.3 Suspension or Debarment. The University may by written notice to the Successful Vendor immediately terminate the Agreement if the University determines that the Successful Vendor has been debarred, suspended or otherwise lawfully prohibited from participating in any public procurement activity, including but not limited to, being disapproved as a subcontractor Vendor of any public procurement unit or other governmental body.

4.46.4 Default. The University reserves the right to terminate the Agreement in whole or in part due to the failure of the Successful Vendor to comply with any term or condition of the Agreement, to acquire and maintain all required insurance policies, bonds, licenses, and permits, or to make satisfactory progress in performing the Agreement. The University shall provide written notice of the termination and the reasons for it to the Successful Vendor. Upon termination under this provision, all goods, materials, documents, data, and reports prepared by the Successful Vendor under the Agreement shall become the property of and be delivered to the University on demand. The University may, upon termination of the Agreement, procure, on terms and in the manner that it deems appropriate, materials or services to replace those under the Agreement. The Successful Vendor shall be liable to the University for any Excess Costs incurred by the University in re-procuring the materials or services.

4.46.5 Gratuities. The University may, by written notice to the Successful Vendor, cancel the Agreement if it is discovered by the University that gratuities, in the form of entertainment, gifts or other, were offered or given by the Successful Vendor, or any agent or representative of the Successful Vendor, to any officer or employee of the University with a view toward securing an Agreement or securing favorable treatment with respect to the awarding or amending, or the making of any determinations with respect to the performing of such Agreement. In the event the Agreement is canceled by the University pursuant to this provision, University shall be entitled, in addition to

any other rights and remedies, to recover or withhold the amount of the cost incurred by Successful Vendor in providing such gratuities.

4.46.6 Insolvency. The University shall have the right to terminate the Agreement at any time in the event Successful Vendor files a petition in bankruptcy; or is adjudicated bankrupt; or if a petition in bankruptcy is filed against Successful Vendor and not discharged within thirty (30) days; or if Successful Vendor becomes insolvent or makes an assignment for the benefit of its creditors or an arrangement pursuant to any bankruptcy law; or if a receiver is appointed for Successful Vendor or its business.

4.46.7 Lack of Funding. The Agreement may be canceled without further obligation on the part of the Arizona Board of Regents and the University of Arizona in the event that sufficient appropriated funding is unavailable to assure full performance of the terms. The Successful Vendor shall be notified in writing of such non-appropriation as soon as reasonably possible. No penalty shall accrue to the Board or the University in the event this cancellation provision is exercised. This cancellation provision shall not be construed so as to permit the University to terminate the Agreement in order to acquire similar equipment, material, supplies or services from another party.

4.46.8 Stop Work Order. The University may at any time, by written order to the Successful Vendor, require the Successful Vendor to stop all or any part of the work called for by the Agreement for a period of ninety (90) days after the order is delivered to the Successful Vendor, and for any further period to which the parties may agree. The order shall be specifically identified as a Stop Work Order issued under this provision. Upon receipt of the order, the Successful Vendor shall immediately comply with its terms and take all reasonable steps to minimize the incidence of costs allocable to the work covered by the order during the period of work stoppage. If a Stop Work Order issued under this provision is canceled or the period of the order or any extension expires, the Successful Vendor shall resume work. The University shall make an equitable adjustment in the delivery schedule or Agreement price, or both, and the Agreement shall be amended in writing accordingly.

4.47 Continuation of Performance through Termination. The Successful Vendor shall continue to perform, in accordance with the requirements of Agreement, up to the date of termination, as directed in the termination notice.

4.48 Confidentiality. The parties shall comply with 20 USC Section 1232(g), the Buckley Amendment to the Family Educational Right and Privacy Act of 1974. Therefore, Vendor shall not be entitled to receive Employee or Student information directly from University, other than public information available in University directories which is not protected by federal or state privacy or confidentiality statutes or regulations. Vendor may solicit Employee and Student information directly from Employees and Students subject to prior disclosures by Vendor of all intended uses of such information. Regardless of the Employee or Student personal information, even if such information is publicly available via directories, Vendor shall under no circumstances sell, duplicate, market, or give to any person or persons, entities, or other companies a list or other personal information of any or all Employees or Students. All identities and personal information Employees and Students shall remain confidential. And disclosure by Vendor occurring without the express prior written consent of the Employee or Student shall result in the immediate termination of this agreement.

4.49 Data Use, Ownership, and Privacy. The terms of this section apply if Supplier receives, has access to, stores, or analyzes any UA Data (as defined below). As between the parties, UA will

own, or retain all of its rights in, all data and information that UA provides to Supplier, as well as all data and information managed by Supplier on behalf of UA, including all output, reports, analyses, and other materials relating to, derived from, or generated pursuant to the Agreement, even if generated by Supplier, as well as all data obtained or extracted through UA's or Supplier's use of such data or information (collectively, UA Data). UA Data also includes all data and information provided directly to Supplier by UA students and employees, and includes personal data, metadata, and user content.

UA Data will be UA's Intellectual Property and Supplier will treat it as UA Confidential Information (as defined below). Supplier will not use, access, disclose, or license, or provide to third parties, any UA Data, except: (i) to fulfill Supplier's obligations to UA hereunder; or (ii) as authorized in writing by UA. Without limitation, Supplier will not use any UA Data, whether or not aggregated or de-identified, for product development, marketing, profiling, benchmarking, or product demonstrations, without, in each case, UA's prior written consent. Supplier will not, directly, or indirectly: (x) attempt to re-identify or de-aggregate de-identified or aggregated information; or (y) transfer de-identified and aggregated information to any third party unless that third party agrees not to attempt re-identification or de-aggregation. For UA Data to be considered de-identified, all direct and indirect personal identifiers must be removed, including names, ID numbers, dates of birth, demographic information, location information, and school information. Upon request by UA, Supplier will deliver, destroy, and/or make available to UA, any, or all UA Data.

Notwithstanding the foregoing, if the Agreement allows Supplier to provide aggregated and de-identified data to third parties, then Supplier may provide such data solely to the extent allowed in the Agreement, and, unless otherwise stated herein, only if such data is aggregated with similar data of others (i.e. is not identified as UA, ABOR, or Arizona-specific).

4.50 Non-Discrimination, Affirmative Action. Contractor and subcontractor shall abide by the requirements of 41 CFR §§ 60-1.4(a), 60-300.5(a) and 60-741.5(a). These regulations prohibit discrimination against qualified individuals based on their status as protected veterans or individuals with disabilities and prohibit discrimination against all individuals based on their race, color, religion, sex, or national origin. Moreover, these regulations require that covered prime contractors and subcontractors take affirmative action to employ and advance in employment individuals without regard to race, color, religion, sex, national origin, protected veteran status or disability.

4.51 Clean Air and Federal Water Pollution Control Act. The successful vendor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401–7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C.1251–1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).

4.52 COVID-19 Safety Protocols. The successful vendor must comply with FAR 52.223-99.

4.53 PCI DSS AND PABP COMPLIANCE. Contractor acknowledges, warrants and will maintain all applicable PCI DSS requirements to the extent the service provider handles, has access to, or otherwise stores, processes, or transmits the customer's cardholder data and/or sensitive authentication data and/or can affect security of those entities that store, process, or transmit cardholder data (e.g. Managed Services).

Furthermore, Contractor must certify at time of contract/agreement to be in compliance and continue to meet all applicable requirements by providing validation either by appearing on the VISA Global Registry of Service Providers (CISP), Payment Card Industry Security Standards

Council Validated Payment Applications list (if applicable), or provide a completed and signed Attestation of Compliance (AOC) signed by a PCI approved Quality Security Assessor (QSA). Any change in Contractor's certification requires prompt (within thirty (30) days) written notification to the University of Arizona.

Furthermore, Contractor agrees to provide to the University of Arizona upon request, any supporting compliance documentation such as but not limited to Approved Scan Vendor (ASV) Attestation of Compliance (AOC), external scan results, penetration testing results, and/or a completed Service Provider Self-Assessment Questionnaire (SAQ) D (if not completing a third-party assessment).

Contractor agrees to indemnify the University of Arizona for any breach of its cardholder data attributed to the application, system, or Contractor controlled interface to CHD or service provided by the Contractor. Contractor agrees to notify the University of Arizona authorized representative within 24 hours in the event of unauthorized release of cardholder data.

Contractor must provide written documentation, which outlines the specific PCI DSS compliance responsibilities of both the Contractor and the University of Arizona.

4.54 Assignment. Not Applicable.

4.55 Pre-Existing Materials. Not Applicable.

5.0 SCOPE OF WORK, SPECIFICATIONS, TECHNICAL REQUIREMENTS

5.1 Purpose of RFP and Submittal Details.

The University of Arizona University Information Technology Services (UITS) Department is inviting proposals to establish an on-call list of qualified telecommunications contractors and pricing to perform the tasks listed in the specifications and in this Request for Proposal.

5.2 Term Options.

The University will identify Proposers who can accommodate this program for a potential period of five years. The initial contract will be five (5) years, with the ability to terminate early at the University's discretion.

5.3 Background Information.

UITS is responsible for providing and maintaining the University of Arizona telecommunications/network systems including building Structured Cabling infrastructure, outside cable plant, wireless, voice, and data services.

5.4 Design Specifications and Standards.

The attached section 6.1. The UITS-PHX-Design and Specification Standards and the most recent version of the National Electrical Code adopted by the University of Arizona shall govern performance of work.

5.5 Demonstration of Ability.

5.5.1 Contractor Qualifications. Prospective vendors shall submit documentation of their qualifications to perform the work described in this RFP. Contractors must also submit a company profile that includes training, experience, and abilities of all personnel expected to be involved in project management, installation, and quality control. It is the Contractors responsibility to update this information as required to be kept current for the duration of the contract period.

- 5.5.1.1** Contractors are required to have been registered with the Arizona Corporation Commission for a minimum period of four years and hold a valid State of Arizona C-67 (or other Arizona equivalent) contracting license. Documentation shall include the vendor's Arizona Corporation Commission entity ID number and Arizona C-67 (or other Arizona equivalent) license number.
- 5.5.1.2** Contractors are required to be a current Commscope Systimax Certified Installer, authorized to participate in the Commscope Systimax Certification 25-year Warranty Program. Documentation shall include Commscope Systimax certifications.
- 5.5.1.3** Profile shall identify the individuals proposed to be assigned to this work, along with their roles and responsibilities. The University values the increased levels of responsiveness and local conditions knowledge typically provided by local firms, and desires to maximize local business participation. If the proposal includes team members who are not located in the Phoenix metropolitan area, please describe how they will work to ensure timely and responsive service to all aspects of the work.
- 5.5.1.4** Provide expected response times to site, from receipt of request for: (1) Emergency work requests, (2) Estimate requests for daily, move/add/change type requests.
- 5.5.1.5** Profile shall include a summary of your quality control plan as it will be applied to this work.

5.6 Prior Experience. Documentation submitted shall include a list of projects performed for the University of Arizona, and a list of projects of similar scope/nature performed for other clients. Documentation of experience shall include only projects completed within the last 8 years. Prior experience on University of Arizona projects will be weighted more heavily than other projects.

5.7 Single Point of Contact. Proposal shall designate who within their organization is authorized to represent and speak for their organization in all business and contractual matters related to this RFP. Provide a primary point of contact, and a secondary point of contact to be utilized in the event the primary contact is not available. Awarded contractors are to notify UITS of any point of contact changes in a timely manner.

5.8 University Buildings and Interior Room Access. Keys must be obtained from the Phoenix Biomedical Campus Facilities Management Department, located at the PBC. UITS Engineering will provide Facilities Management contact information to awarded contractors.

UITs will not compensate or pay additional charges for the contractor's staff to obtain keys or arrange access, as it is understood that the contractor has factored this service into their pricing.

5.9 Work Assignment, Inspections, and Standards.

- 5.9.1.1** UITS will provide a point of contact for the contractor for a given project or work assignment. The contact person will provide any interface the contractor will need with the University.

- 5.9.1.2** Upon request, the contractor shall submit the lead time required to start a project and may be required to commit to work start and completion schedules.
- 5.9.1.3** The UITs project manager will observe the contractor's performance relating to workmanship and shall have the authority to require the contractor to instigate and maintain procedures to ensure that persons performing work are skilled and knowledgeable in methods and craftsmanship needed to produce quality work. The contractor shall comply with workmanship standards specified and recognized in the telecommunications industry for the applications indicated. The contractor shall at their expense remove and replace any materials damaged or deteriorated by faulty workmanship.
- 5.9.1.4** Cabling test results demonstrating that cabling installation work has been performed in accordance with the specifications shall be submitted prior to payment for work performed.
- 5.9.1.5** Upon request of UITs, a Commscope Systimax 25-year Warranty shall be submitted for cabling projects.

5.10 Work Hours/Schedule.

- 5.10.1.1** Business Hours: Work is generally to be performed during regular business hours, Monday through Friday. Some work that is time-sensitive, or in areas that have limited access may need to be performed outside of normal business hours. Contractor(s) shall coordinate in advance with UITs the time and date of any after-hours work.
- 5.10.1.2** Work Restrictions: In addition to the above provision, Contractor(s) may be required to restrict work activities during certain critical periods of the University's operations. The University reserves the right to restrict the Contractor(s) work activities as required to ensure proper and uninterrupted operation of the University's facilities. UITs will attempt to coordinate the Contractor's schedule with the University's schedule of activities to minimize any unscheduled restrictions of work. Contractors shall coordinate daily work schedules with UITs for any work performed in or close proximity to all University dormitories. Contractors are required to coordinate with UITs prior to any confined space entry on University property.

5.11 Clean-up Requirements. After completing work, the contractor shall deliver replaced equipment and excess materials to the UITs representative at the work site.. Contractor shall remove from the job site all debris and expended job materials related to their work and dispose of these materials in an appropriate manner.

5.12 Options for Delivery of Services:

5.12.1 Unit price and/or fixed labor rates. Unit prices and fixed labor rates shall be submitted for the lists of tasks below. The contractor is cautioned to inspect the architecture of several buildings before establishing unit prices or fixed labor rates. The contractor's pricing shall be a composite which factors the least difficult, average, and most difficult work conditions into a single pricing. Unit pricing and fixed labor rates are based on the work being performed in the Phoenix, AZ metropolitan area. Any charges for travel, per diem, parking, etc. shall be factored into the unit prices and/or labor rates. No additional

compensation will be provided to cover travel expenses. All pricing shall include transaction privilege taxes, sales/use taxes, and/or all other applicable taxes.

5.12.1.1 Submit a unit price for each of the following items below.

Tasks 1-9, and 12 shall include all labor, cable, jack and pathway materials, leaving a pull string in horizontal pathway, and fire stopping materials. Cables shall be run from outlet location to the termination block/patch panel in the telecom room serving the room in which the outlet is located. For the purposes of this RFP, jack materials are defined to include female RJ-45 termination modules (jacks), blank modules, faceplates, 110 connecting blocks (or patch panel equivalent), cable, labels, and designation strips. "Pathway materials" are defined as J-Hooks, sleeves, pull strings and fire stop materials in areas where existing pathway has been established. For locations where existing pathways do not exist, or do not meet standards, the use of Tasks 14 - 15 may be required to complete work. Note: Task 14 contractor provided labor and Task 15 contractor provided materials.

Task 1: Install a single Cat. 6 jack (one RJ-45 termination module, one cable, pathway materials, etc.)

Task 2: Install a duplex Cat. 6 jack (two RJ-45 termination modules, two cables, pathway materials, etc.)

Task 3: Install a triplex Cat. 6 jack (three RJ-45 termination modules, three cables, pathway materials, etc.)

Task 4: Install a quad Cat. 6 jack (four RJ-45 termination modules, four cables, pathway materials, etc.)

Task 5: Install a single Cat. 6A jack (one RJ-45 termination module, one cable, pathway materials, etc.)

Task 6: Install a duplex Cat. 6A jack (two RJ-45 termination modules, two cables, pathway materials, etc.)

Task 7: Triplex Cat. 6A jack (three RJ-45 termination modules, three cables, pathway materials, etc.)

Task 8: Quad Cat. 6A jack (four RJ-45 termination modules, four cables, pathway materials, etc.)

Task 9: Submit a unit price for a single cable Coax RG6 with F-type termination at both ends. Coax wiring and termination equipment shall be rated for RG6 Quad Shield. Provide a quad frame for each outlet, with blank inserts provided for unused openings. Provide 12 in. of cable slack at each outlet, plus an additional 10 ft. of slack in the telecommunications room, neatly arranged in a loop above (not on) the TTB.

Task 10: Submit a unit price for the removal of an existing voice/data outlet and associated wiring from the outlet to the telecom room termination. Work shall include removal/modification of all associated labels.

Task 11: Submit a unit price for the installation of a wireless access point (AP) at an indoor location. Work shall include AP mounting to a ceiling or wall, and patching of the

AP to an existing jack with a patch cord. The AP, applicable bracket, and patch cord will be furnished by UITS; all other materials shall be provided by the contractor. APs mounted in suspended (grid) ceilings shall be provided with a tie wire support independent of the grid structure.

Task 12: Submit a unit price for the installation of a wireless access point (AP) at an indoor location. Work shall include AP mounting to a ceiling or wall, installing a duplex jack (two cables) at the AP location, and patching the AP to the jack with a patch cord. The AP, applicable bracket, and patch cord will be furnished by UITS; all other materials shall be provided by contractor. APs mounted in suspended (grid) ceilings shall be provided with a tie wire support independent of the grid structure.

Task 13: Submit a unit price for removal of existing indoor AP and installing replacement indoor AP at same location. Work shall include removal of existing AP, installing new AP, and patching AP to an existing jack with existing patch cord. The AP will be furnished by UITS; all other materials shall be provided by contractor.

Task 14: Submit per hour labor pricing for the installation of telecommunications materials and equipment including, but not limited to the following:

- Copper cabling termination hardware (patch panels, 110 blocks, etc.).
- Optical fiber termination hardware (enclosures, LIU's, etc.)
- Plywood backboards
- Equipment enclosures and cabinets
- Equipment racks
- Cable runway
- Cable tray
- Conduit raceway
- Surface raceway
- Innerduct
- Copper indoor / riser multi-pair cable and terminations
- Optical fiber indoor / riser cabling and terminations
- Point to point cables
- Outdoor wireless access points and/or antennae
- Wireless access point enclosures
- Wall or ceiling penetration sleeves
- Fire-stopping
- Multipair armored, outside rated, gel-filled copper cabling
- Protectors
- Armored and/or non-armored outside rated optical fiber cabling
- Armored and/or non-armored indoor/outdoor rated optical fiber cabling
- Innerduct
- Aerial drop cables, both copper and optical fiber
- Cable splicing, both copper and optical fiber
- Placement of handholes and pedestals

Task 15: Contractor supplied miscellaneous equipment and materials. These materials are not included in Tasks 1 – 13. For the purpose of this RFP, provide your maximum percentage margin applied to supplied equipment and materials. The Contractor agrees to provide itemized receipts for equipment and materials, within 5 business days, upon the Universities request to verify margin percentage.

- 5.12.1.2** Contractor supplied materials. At the University's option, the contractor(s) may be requested to supply materials that are not included in the scope of Tasks 1-13.

When supplying materials, to the extent possible, the contractor shall:

- Obtain materials at the most advantageous prices available with due regard to securing prompt delivery of satisfactory materials: and
- Take into account all cash and trade discounts, rebates, allowances, credits, salvage commissions, and other benefits in pricing the materials.
- Upon request of UITS, provide a copy of the vendor's invoices for any or all materials supplied.

5.13 Firm Price Quotes. The University may request firm project price quotes that could include add / deduct unit pricing from multiple contractors awarded on this proposal for any or all of the types of work included in the scope and specifications, and award work based on these quotes. Award of a contract under this RFP does not guarantee that a given vendor will be requested to provide a firm price quote for a given project; selection of vendor(s) for firm price quotes will be dependent on factors including, but not limited to, the scope of the project, current vendor work load, and availability. Contractors awarded projects via a firm price quote process are to invoice project costs based on their firm price quote figures for the awarded project.

5.14 UITS Supplied Materials. (Section Removed)

5.15 University Performed Work. The University reserves the right to perform any or all of the work included in the scope and specifications using University personnel. Awards based on this RFP do not constitute any guarantee that any work will be awarded to successful proposers.

5.15.1 Detailed Pricing. Please submit pricing using the Attachment A:

5.16 Method of Payment & Discount for Early Payment. The University's preferred method of payment is via credit card. The University would issue a Purchase Order and upon receipt of goods or services, pay subsequent invoices by credit card.

Awarded Vendor must agree to waive any credit card processing fees.

Will you accept payment via credit card? Yes _____ No _____

Do you offer an early payment discount? Yes _____ No _____

If yes, what is your offer? _____ % if paid within _____ days after the University receives a proper, accurate and uncontested Invoice for Payment.

If payment via credit card is accepted and an early payment discount is offered, would the University receive the discount if paying by credit card? Yes _____ No _____

6.0 CERTIFICATIONS AND FORMS (Vendor to complete and return with proposal)

6.1 UITS-PHX-Design and Specification Standards

6.2 Certification of Proposal

6.3 Legal Workers Certification (Required for all Contracts for: Services; Construction or Maintenance of Structure, Building or Transportation Facility; or Improvements to Real Property costing \$100K and over)

6.4 Certification Regarding Debarment, Suspension, Proposed Debarment, and other Responsibility Matters (Mar 1996 as amended) (Applicable to Federal Grants and Contracts >\$30k)

6.5 Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions (Apr 1991 as amended) (Applicable to Federal Grants and Contracts >\$150k)

6.1 UITS-PHX- Design and Specification Standards

TELECOMMUNICATIONS

Part 1 - General

- 1.1 The scope of this project includes providing all material and labor to install a complete telecommunication system. The systems shall include riser cables, station wiring, terminations, and termination devices and grounding.
- 1.2 In any case where the specifications or drawings are not perfectly clear to contractors submitting a proposal, it is the responsibility of the contractor to obtain clarification from UITS-Engineering & Field Operations. The drawings are diagrammatic and are not complete in every detail. The contractor shall be responsible for determining how to perform all indicated work included in the scope of the project and shall not make any additional charges for any work or material required for a complete installation. The drawings and specifications are complementary, and what is called for on one shall be binding as if called for by both.
- 1.3 Coordinate size and location of telecommunications rooms with the architect to be in compliance with this document and NEC Article 800.
- 1.4 For projects which require "Blue Light" emergency phones, refer to Section 16705, *Blue Light Phones*.
- 1.5 Refer to project plans and specifications for grounding and power requirements.

1.6 General Requirements

- 1.6.1 Codes & License Compliance: The completed installation shall be in compliance with all applicable electrical and fire codes and ordinances, the Williams-Steiger Occupational Safety and Health Act of 1970, and University Standards.
- 1.6.2 Telecommunications contractor must have a current State of Arizona CR-67 Low Voltage Communications Systems license (or other State of Arizona equivalent), have **been** registered with the Arizona Corporation Commission for a minimum period of four years, and be a Systimax Certified Installer. Only contractors approved by UITS-Engineering & Field Operations will be permitted to perform telecommunications installation work in University owned facilities.
- 1.6.3 New & Listed Materials: All materials shall be new and shall be listed as being suitable for the purpose by Underwriters Laboratories, Inc. or equivalent testing agency known to and approved by the University.
- 1.6.4 Workmanship: All work shall be executed according to these specifications in a workmanlike manner and shall present a neat mechanical appearance when complete.
- 1.6.5 Quality Assurance: At least one person directly employed by the prime contractor shall be on site daily to monitor the daily activities of workers to assure the quality of the work performed.
- 1.6.6 Acceptance Inspection: All work must pass functional and workmanship inspections prior to acceptance. The contractor shall make all required corrections, at no additional cost, before the system is put into service.
- 1.6.7 Clean up & Repair: Contractor shall be responsible for clean-up and repair of job site. Damaged false ceilings, pencil or chalk marks, handprints, gouges and tool makers, plaster dust, etc. shall be repaired, cleaned, removed, or painted as required. Penetrated fire barriers shall be resealed in an approved manner.
- 1.6.8 Submittal: Complete materials lists, manufacturer's literature, required drawings, and other

required information shall be submitted for approval no less than 10 working days before such materials are required to be ordered for the work. UITS-Engineering & Field Operations must approve submittal prior to starting the installation. Submit through the University Project Manager.

- 1.6.9 Guarantee: Upon completion of the work and acceptance by the University, the contractor shall submit his warranty effective for one year guaranteeing to replace without additional cost to the University any work or material which is found to be defective within the warranty period.
- 1.6.10 Structured Cabling System Warranty: upon request of UITS, contractor shall provide a 25-year CommScope Systimax Warranty covering the performance of the connectivity hardware and cable used in the structured cabling system.
- 1.6.11 As-Built Drawings & Documents: The contractor shall maintain daily up to date specifications and drawings. The contractor shall submit to UITS-Engineering & Field Operations a complete set of As-Built drawings showing the location and identification number of all jacks installed as part of the project. As-Built drawings shall be submitted in AutoCAD and .pdf format. In all new construction projects and major renovation projects, a laminated 24"x36" or 30"x42" copy of the as-builts for each TR shall be provided in the TR by the installation contractor.
- 1.6.12 Changes: No changes shall be made from the work as called for by these specifications and drawings, except by a written order approved by the Construction Project Manager and UITS-Engineering & Field Operations.
- 1.6.13 Splicing: All cable splicing must be done by a qualified cable splicer, with a minimum of 5 years' experience splicing large pair count copper cables. The cable splicer's name and qualifications must be submitted to UITS- Engineering & Field Operations for verification and approval prior to any splicing work. Provide a minimum of 48 hours advance notice to UITS-Engineering & Field Operations prior to performing any splicing to existing campus cabling infrastructure.
- 1.6.14 Grounding for telecommunications systems and equipment shall be provided in accordance with the requirements of the most recent version of the National Electrical Code, and with The University of Arizona DSS Manual Specification Section 16450.
- 1.6.15 Equipment shall be installed in such a manner that it does not impede the spray pattern of fire sprinkler heads.

1.7 Telecommunications Room Requirements

- 1.7.1 Install floor tile or seal the concrete floor to avoid dust.
- 1.7.2 The minimum ceiling height is 8 feet, 6 inches. Telecom rooms shall not have lift-out ceilings.
- 1.7.3 When ceiling distribution systems are used, design the telecom rooms with adequate conduit or openings through beams or other obstructions into the accessible ceiling space.
- 1.7.4 Design doorway opening with a minimum opening of 3 ft. wide and 6 ft. 8 inches high, and doors shall be hinged to open outwards. If not possible, increase room size for door swing.
- 1.7.5 Locate the telecom rooms in areas above the threat of flooding.
- 1.7.6 Provide a No. 6 AWG minimum ground wire in each closet. Terminate ground wire to a 6-inch copper buss bar which has provisions for additional ground connections.
- 1.7.7 Design lighting to provide a minimum equivalent of 50 footcandles measured at 1 meter AFF.
- 1.7.8 Telecom rooms shall be equipped with Cat Card access and keyed to the restricted campus telecommunications key plan, accessible only to personnel authorized by UITS.
- 1.7.9 If possible, locate riser closet in the center of the building or within 150 feet of each tenant space. Multiple riser telecom rooms may be required on each floor.
- 1.7.10 In a multi-floor building the telecom rooms shall be aligned vertically. Locate telecom rooms so building structure beams and other trades equipment does not interfere with placing riser sleeves/conduits within six inches from wall.
- 1.7.11 Minimum size for floor (IDF) telecom rooms shall be 9 ft. x 11 ft. Larger sizes may be required for high density applications (more than 300 jacks), or if Distributed Antenna System (DAS) equipment will be utilized. No windows should be permitted in IDF or BET rooms.

- 1.7.12 Minimum size for main (BET) Building Entrance room shall be 10 ft. x 12 ft. Larger sizes may be required if a large number of telecom rooms are served from the BET, if the BET is also used as an IDF with more than 300 jacks, or if the BET serves more than one building. No windows shall be permitted in IDF or BET rooms.
- 1.7.13 Line all walls with 3/4-inch, 4 ft. X 8 ft. A-C grade plywood, mounted at 6" AFF. Plywood shall be treated on all sides with at least two coats of fire-resistant paint (white) or shall be fire-rated and painted with standard white paint. The fire-rating label on the plywood shall be left visible.
- 1.7.14 Provide a minimum of (1) 20A/120V duplex receptacle on each wall of each telecommunications room. Above each freestanding equipment rack, provide a minimum of (1) 20A/120V NEMA 5-20R dedicated receptacle. In addition, above four post freestanding racks, provide (2) 30A/208V NEMA L6-30R dedicated receptacles. In telecommunications rooms containing more than 192 station cable terminations, provide an additional 5-20R dedicated receptacle above each freestanding equipment rack. In buildings with emergency generator systems, half of the 120V and half of the 208V receptacles shall be connected to the building's emergency power system.
- 1.7.15 Entrance conduits to the BET from the outside point of connection to campus cable plant shall consist of a minimum of (4) 4-inch conduits. One of the four conduits shall be filled with (4) 1" innerducts.
- 1.7.16 Locate riser sleeves/slots on the immediate left side of the closet. This will enhance the use of wall space from left to right. Riser sleeves/slots shall be aligned vertically from floor to floor. Riser sleeves/slots shall be: (4) 4-inch sleeves or 4 in. by 16 in. slots. Additional sleeves may be required in large buildings. All riser sleeves shall have bushings installed for cable protection. Sleeves shall extend 4 inches AFF.
- 1.7.17 Telecom rooms shall be dedicated to telecommunications equipment and shall not be used as a passageway to other rooms. Energy management systems, fire alarm, sound systems, audio-visual, and HVAC control systems equipment shall not be located in the telecommunications rooms.
- 1.7.18 Telecom rooms are not to be used for HVAC piping (other than for room-serving equipment located in the room), plumbing piping, fire sprinkler piping, or electrical riser systems.
- 1.7.19 Telecom rooms shall not be used for materials storage or for storage of janitorial equipment.
- 1.7.20 User equipment requiring an attendant, monitoring, or frequent attendance shall not be placed in telecommunications rooms. Fire alarm control panels, energy management panels and other equipment requiring access by trades other than telecommunications shall not be located in telecom rooms. Electrical circuit breaker panels shall not be located in telecom rooms unless the panels are dedicated to the telecom equipment in that room. Servers and other local area network equipment not maintained and managed by UITS shall not be located in telecommunications rooms.
- 1.7.21 All telecommunications rooms shall be served by the building HVAC system. Temperature in telecommunications rooms that house active equipment shall be maintained within the range of 64 to 81 degrees F, at no more than 60% relative humidity. Telecommunications rooms shall have dedicated environmental controls, providing conditioning 24 hours a day, 7 days a week. All fan coils should be located outside of IDF rooms
- 1.7.22 Telecommunications rooms shall be sized and laid out in such a manner that there is a minimum of 3 ft. clearance in front of all telecommunications equipment, cross-connect fields, patch panels, etc.

Part 2 - Description of Work

2.1 Telecom Room Build-Out:

- 2.1.1 Vertical cable runs are to be supported at a maximum of 5 ft. centers. Horizontal cable runs are to be supported at a maximum of 3 ft. centers.

- 2.1.2 Horizontal station cable terminations shall be marked with final University room numbers. Obtain entry cable and riser cable pair count information from UITS Engineering & Field Operations.
- 2.1.3 Metal closed loop D-rings (2, 4, and 6 inch as required) shall be installed in quantities sufficient to produce an orderly cable and wire installation for vertical runs of backbone cabling within telecommunications rooms. Note that D-rings are not an acceptable means of horizontal cable support. Distributing posts are not acceptable.
- 2.1.4 Cables shall be routed in such a way as to minimize interference with cross connect wiring and future equipment additions. Entrance cable shall be routed to and terminated to the bottom group of termination blocks. Horizontal distribution cables shall be routed to and terminated to the top group of termination blocks.
- 2.1.5 Cable management D-rings, brackets, and horizontal and vertical cable managers shall be installed to maintain an orderly appearance for cables or wires running between backboards, racks or to common equipment.
- 2.1.6 Riser cable splice cases are not considered part of a TTB and shall be located so as not to interfere with backboards or common equipment.
- 2.1.7 All wall mounted equipment shall be securely fastened to TTB/DTB. Suspension by connection to other equipment is not acceptable.
- 2.1.8 Complete telecommunication room layout drawings shall be included as part of the project submittal. Layouts shall be designed to allow all four walls of the telecommunications room to be used for mounting telecommunications equipment.
- 2.1.9 Equipment racks, cable runway and other conductive equipment shall be grounded with a minimum #6 AWG connection to the ground bus in each telecom room. Free standing equipment racks (two post and four post) shall be provided with an equipment rack grounding strip and ESD port. Grounding connections shall be made using two-hole compression lugs. Two post equipment racks: provide 7 ft. x 19" freestanding welded steel equipment rack, flat black. Four post equipment racks shall be 7 ft. high, 19" EIA width, 29" depth, black.
- 2.1.10 Vertical cable managers: freestanding equipment racks shall be provided with 7' high, double-sided cable managers 6" or 10" as indicated on the drawings, black in color, Chatsworth MCS series.
- 2.1.11 Cable runway shall be 12" minimum width with junction splice kits, end caps, runway mounting plates, and support brackets. 12" minimum width with 2" minimum depth. Provide intersection preformed fittings on all 90 degree and 'Tee' junctions, cable dropouts per each vertical wire manager, and manufactured supports.
- 2.1.12 When ceiling distribution systems are used, design the telecom rooms with adequate conduit or openings through beams or other obstructions into the accessible ceiling space.
- 2.1.13 Provide fire stopping for all floor penetrations and all penetrations of fire rated walls/partitions occupied by telecommunications cabling. Fire stopping of existing sleeves/penetrations shall be made using caulk or putty type materials. All new fire-rated sleeves/penetrations shall be made using re-enterable type sleeves. Fire stopping materials shall be UL listed and shall be installed in accordance with the manufacturer's installation requirements. Fire stop materials and installation methods shall also comply with all applicable local building codes and requirements as adopted and enforced by the Authority Having Jurisdiction (AHJ)

2.2 Entrance Cabling:

- 2.2.1 Copper entrance cabling shall be PE-39, Type ANMW, ASP, filled, direct burial, 24 AWG solid conductor, with REA color code.
- 2.2.2 Splice cases and/or closures shall be provided for copper entrance cabling as required, with prior approval by submittal required. Provide transition splice to non-filled cable prior to building entrance termination. Filling compound shall be re-enterable.
- 2.2.3 Copper entrance cabling shall be provided with station protectors installed in accordance with NEC 800 requirements. Protectors for multi-pair entrance cables shall have 110-in and 110-

out connectors, and unless otherwise noted on the construction documents, shall be rack mounted, Protector modules shall be 4B1EW type.

- 2.2.4 Ground entrance cable shield to an approved provable ground as close to the entrance as possible in accordance with NEC requirements.
- 2.2.5 Terminal blocks shall be permanently marked with pair count numbers for entry cable terminations.
- 2.2.6 Optical fiber entrance cables shall be singlemode 8.2/125 Micron, 900 Micron buffered, OS2 rated. Entrance fiber shall be terminated on a rack mount enclosure. In buildings with legacy ST connectors, new connectors shall be ST. In new buildings, or buildings without legacy optical fiber, new connectors shall be LC. All associated hardware shall be provided, including ground clamps, labels, vertical troughs, horizontal troughs, connector panels, blank panels, etc. Adapter panels shall have 6 or 12 duplex adapters, with zirconia ceramic split sleeves, OM3/OM4 or OS2 rated for multimode and singlemode fiber respectively.
- 2.2.7 Optical fiber cable construction: provide indoor/outdoor riser rated cable with interlocking armor for building entrance cables that are run to a splice case within 300 ft. of the building entrance. For backbone cables traversing more than 300 ft. of outside duct and/or tunnel pathway, cable shall be single armor, double jacket. All outside plant optical fiber cables shall be gel-free, with loose tube construction.
- 2.2.8 Minimum strand count for optical fiber entrance cables shall be 24 strands singlemode per building.
- 2.2.9 Ground entrance cable shield to an approved provable ground as close to the entrance as possible in accordance with NEC requirements.
- 2.2.10 All optical fiber cable splicing shall be done using the fusion splice method.
- 2.2.11 All optical fiber connectors shall utilize fusion splice-on connectors. Mechanical ("cam") type connectors are not acceptable.

2.3 Riser Cabling:

- 2.3.1 Fiber Optic Riser Cable shall be OFNR or OFNP, tight buffered.
- 2.3.2 Multimode riser cables shall be 50 micron, OM4 rated, with LC connectors. New singlemode riser cable shall be OS2 rated, with LC connectors. Connectors shall be fusion splice-on type.
- 2.3.3 Provide a minimum strand count of 24MM/24SM to each telecom room on the riser. Optical fiber riser cables shall be terminated on a rack mounted enclosure, unless specifically noted otherwise on project plans and specifications. All associated hardware shall be provided, including ground clamps, labels, vertical troughs, horizontal troughs, connector panels, blank panels, etc. Adapter panels shall have 6 or 12 duplex adapters, with zirconia ceramic split sleeves, OM3/OM4 or OS2 rated for multimode and singlemode fiber respectively.
- 2.3.4 Multi-pair copper riser cable shall be shielded, type ARMM, 24AWG, solid conductor, Cat. 3 rated, terminated on 110 blocks.

2.4 Station Wiring:

- 2.4.1 Provide a faceplate with blank inserts provided for unused openings. HORIZONTAL STATION WIRING MUST BE IN COMPLIANCE WITH ANSI/TIA-568.2-E HORIZONTAL WIRING DISTANCE SPECIFICATIONS. The maximum horizontal cable length shall be 90 meters (295 ft.). This is the cable length from the mechanical termination of the cable in the telecommunications closet to the telecommunications outlet in the work area. The maximum distance includes all wiring that is part of the horizontal wiring. Provide 12 in. of cable slack at the outlet end, plus an additional 10 ft. of slack in the telecommunications room, neatly arranged in a loop.

- 2.4.2 Station wiring and termination equipment shall be rated Category 6A for new construction or in existing facilities where the predominant cabling is Category 6A. Where Category 6, Category 5e or older cable is the predominant cabling, and the scope of the new cabling represents less than 30% of the existing cabling, the new cabling shall be Category 6 rated unless specifically noted otherwise on the drawings/specifications.
- 2.4.3 Station cable shall be 4 pair, solid conductor, REA color code, plenum rated, UL Listed type "CMP" w/FEP insulation. Cable must comply with ANSI/TIA-568.2-E.
- 2.4.4 Station cables for outdoor installations where the cable is in conduit that is not concrete encased shall be a flooded type cable and shall be provided with protector modules at both ends where required by code.
- 2.4.5 Outlet jack shall be an eight-position modular jack meeting the specifications of FCC Regulations Part 68.500. All jacks shall be wired according to the T568B wiring schematic.
- 2.4.6 Station cables must not be spliced. Cable runs are to be direct home runs to the IDF and shall not pass through any other station outlet box. The cable bend radius for station cabling shall not be less than four times the outside diameter of the cable.
- 2.4.7 Install cables in conduit, and raceways as specified and supplied and installed by the electrical contractor. All conduits and sleeves shall have insulated bushings installed to protect wire and cables from damage. Installed cables shall not be bundled together.
- 2.4.8 Station cable and wiring shall comply with ANSI/TIA-568.2-E, standards. (UTP Category 6A or 6).
- 2.4.9 Install and terminate fiber optic cable station cabling where specifically indicated in the project plans and/or specifications.

2.5 Wiring Practices:

- 2.5.1 Station cables shall terminate on a rack mounted patch panel, or wall mounted patch panel if no racks are present in an existing telecom space.
- 2.5.2 Wireless access points in hard ceiling areas shall be mounted to a 4" square outlet box, using the manufacturer's mounting plate best suited to minimize the gap between AP and ceiling.
- 2.5.3 Wireless access points in lift-out ceiling areas shall be mounted to the ceiling grid using the manufacturer's ceiling grid clips best suited for the type of grid (recessed or flush). The access points shall be mounted at grid intersection points. An independent means of support (e.g., seismic support wire) shall be run from the building structure above to each access point. Cables for wireless access points shall be terminated on the station end with a female modular jack (not a male RJ-45 plug) to allow standards-compliant permanent link testing.
- 2.5.4 Cable and wire above ceiling shall be run parallel or perpendicular to the walls. Diagonal runs will not be accepted. Riser cables shall be run parallel to riser system. Do not install cables in close proximity to fixtures or equipment that may cause RFI or EMI. To reduce the effects of EMI, the following minimum distances shall be adhered to:
 - 5" from power lines of 2kVA or less.
 - 18" from high voltage lighting (including fluorescent).
 - 39" from transformers, motors, and power lines of 5kVA or greater
- 2.5.5 Cables and wire shall not be attached to conduit, pipes, ceiling grid/hanger wire, light fixture hangers, HVAC duct work, etc.
- 2.5.6 All horizontal UTP cables shall be pulled by hand. During pulling operation, an adequate number of workers shall be present to allow cable observation at all points of raceway entry and exit, as well as the point at which cable is "payed out" from the box or reel, and around corners.
- 2.5.7 Pull cables in accordance with manufacturer's recommendations and ANSI/IEEE C2 Standards. Manufacturer recommendations shall be part of cable submittal. Recommended

pulling tensions and bend radius shall not be exceeded. Any cables bent or kinked to radius less than recommended dimensions are not allowed and shall be replaced at no expense to the owner.

- 2.5.8 Cables that show signs of being bent or kinked beyond recommendations then straightened are also not allowed and shall be replaced at no expense to the owner.
- 2.5.9 Cables that show damage to the jacket in any manner shall be replaced at no expense to the owner.
- 2.5.10 Cable and wire above ceiling shall be suspended from approved hangers as required and be routed as close to upper ceiling as practical. Supports shall be installed at a maximum of 3 ft. centers using metal "J" hooks with a wide base design and beveled edges. "D" rings shall not be installed as a means of horizontal cable support.
- 2.5.11 "J Hooks" and other similar cable support devices shall be attached using corrosion resistant screws, #8 minimum. Drywall screws shall not be used for fastening "J-Hooks".
- 2.5.12 Cables shall not be installed in such a manner that they rest upon ceiling tiles, mechanical equipment, or other systems.
- 2.5.13 Fire Stop – all fire rated partitions shall be fire stopped. Caulks and sealants shall be listed for the intended application. Contractor shall be certified by the manufacturer of the firestop system(s) utilized, and installation shall be in full compliance with manufacturer's requirements for the intended application.

2.6 Raceway Requirements:

- 2.6.1 Conduit fill: In new installations, conduit fill shall not exceed 40%. In retrofit installations, conduit fill may exceed 50% provided that the necessary pulling tension does not exceed the cable rating, and that compression of the cable jacket does not occur.
- 2.6.2 All conduits and sleeves must have UL approved insulated end bushings installed prior to installation of cables or station wire.
- 2.6.3 All riser sleeves/conduits and penetrations of fire rated partitions shall be fire stopped using approved methods and materials.
- 2.6.4 All cables shall be installed in compliance with manufacturers' pull tension and bend radius specifications.
- 2.6.5 Station cables shall have individual pair twists preserved to point of termination. Cable jacket and inter-pair twists shall be continuous to within ½" of termination. Cables should not be routed in tightly cinched bundles. Avoid over-tensioning or twisting cable during installation.
- 2.6.6 Wall boxes shall be flush mounted, standard metal 4-inch square, deep type, with a single gang plaster ring. Conduit from the wall box shall be concealed and stubbed out above accessible ceiling, to riser closet, or to the telecommunications cable tray. Conduit shall be 1" minimum. Conduit end shall be fitted with a UL approved insulated bushing.
- 2.6.7 Any additional service requirements that will not operate over the standard University building telephone/data network shall use a separate conduit and wall outlet.

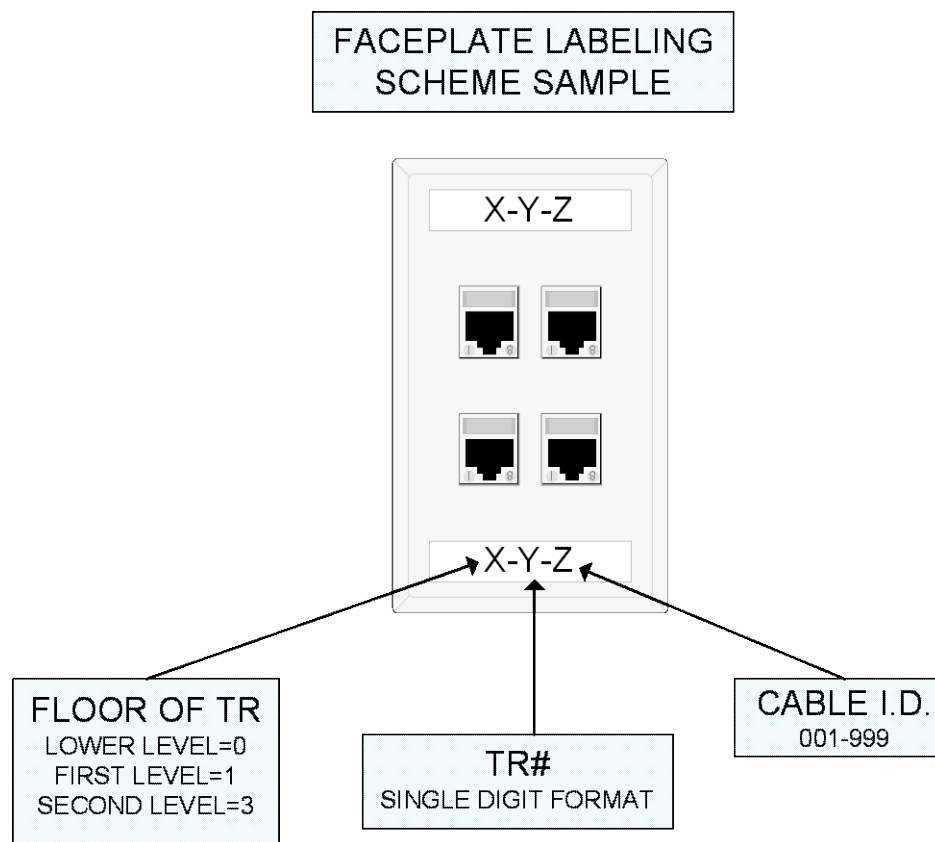
2.7 Telecommunications Cable Tray

- 2.7.1 Telecommunications cable trays are for the containment and support of telecommunications cables only. Cable trays shall not be used for the support of electrical power cables and conduits. Cable trays shall be bonded to ground in accordance with electrical code requirements.
- 2.7.2 System shall be designed and installed to allow accessibility for adds, moves, and changes.

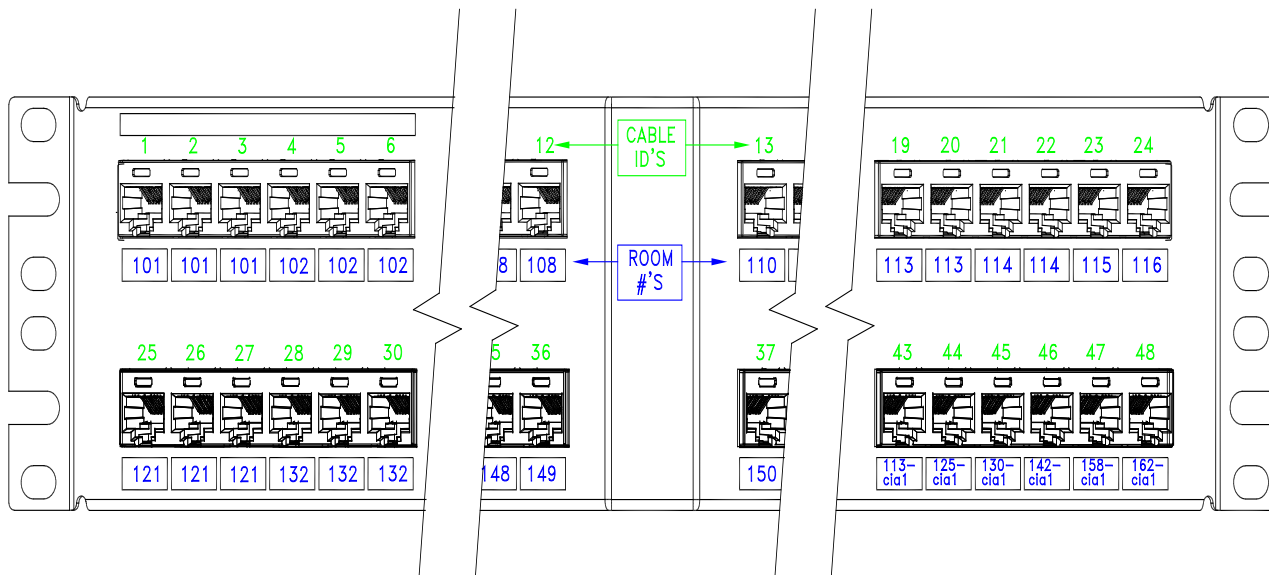
- 2.7.3 Wire mesh (basket) type cable trays shall be used outside of telecom rooms. Ladder style cable runway shall be used in telecom rooms unless otherwise indicated on the project plans and specifications.
- 2.7.4 Trays may be supported by cantilever brackets, trapeze, or individual rod suspension. Supports shall be installed on five-foot centers maximum. A support shall be placed within two feet on each side of any connection to a fitting. Center hung supports shall be used only with prior approval from UITS Engineering.
- 2.7.5 The inside of the cable tray shall be free of burrs, sharp edges, and projections that can damage cable insulation.
- 2.7.6 A minimum of 12 inch access headroom shall be provided and maintained above the complete cable tray system. Cable trays must have adequate side access for initial cable installation and for future cable adds, moves, and changes.
- 2.7.7 Cable tray “tees” and 90’s shall have wide radius junctions.
- 2.7.8 Care should be taken to ensure that other building components do not restrict access to the cable tray.
- 2.7.9 Cable trays shall be level and have supports if required to prevent horizontal movement.
- 2.7.10 System shall be designed and installed to allow compliance with ANSI/TIA-568.2-E horizontal wiring distance standards.

2.8 Labeling:

- 2.8.1 All labels shall be machine generated (printer or handheld label machine).
- 2.8.2 All cables shall be permanently identified at both ends.
- 2.8.3 Labeling for cabling, pathways, and hardware shall conform to TIA 606-D.



Patch Panel Labeling Diagram



2.8.4 Outlet labeling shall be in accordance with the diagram above:

2.8.5 Copper and optical fiber risers shall be labeled in accordance with the existing labeling scheme used at the PBC. This labeling scheme consists of the building number/sequential cable number/pair (or strand) range. Copper termination blocks shall be labeled with the pair counts and cable identifier. Optical fiber enclosures shall be labeled with an enclosure identification, the strand counts, and cable identifier.

2.8.6 Prior approval of final labeling scheme must be received from UITs Engineering & Field Operations. Labels shall be applied at the time of cable acceptance testing.

2.9 Outside Plant work

2.9.1 Underground Conduit:

- Underground conduit shall be 4" minimum, unless otherwise specified. Conduit shall be heavy-wall Schedule 40, UL listed for direct burial and concrete encasement
- Conduit bends shall be sweeps, 12 times the conduit diameter. Bends shall be concrete encased PVC Schedule 40, or rigid galvanized steel double wrapped with 10 mil PVC tape.
- Conduit pole risers shall be rigid galvanized steel from below grade to a minimum of 10' above grade, mounted to the pole with standoff brackets. Pole risers shall be located in a pole quadrant opposite the traffic side of the pole.
- Conduits shall be installed in continuous sections, with no continuous sections to exceed 500 feet without pull points.
- Conduits shall have no more than three 90-degree sweeps (or 270 degrees total bends) between pull points.
- All conduits shall be mandrel tested prior to acceptance by the University. Conduits that do not pass a mandrel test shall be repaired or replaced and re-tested at no cost to the University. Notification of mandrel testing shall be provided to the UITs project manager 24 hours in advance of testing and shall be witnessed by a UITs representative if requested.
- Empty conduits shall be provided with 2500 lb. mule tape with footage markers, secured with at least 4 ft. of slack at each pull point or termination point.

- Underground conduits shall be installed a minimum of 24 inches below grade, separated from other utilities with a minimum of 12" well packed earth, 4" of masonry, or 3" of concrete.
- Provide 6" orange, traceable underground warning tape labeled "Caution- Buried Fiber Optic (or Telephone) Cable Below" above all conduits or duct banks, installed 12" below finished surface.
- Innerducts for use in underground conduits shall be corrugated, PVC, 1" or 1-1/4" as specified.
- Conduits and innerducts shall be sealed at termination points using watertight, corrosion-proof, removable and re-usable duct plugs as manufactured by Jackmoon or equivalent.
- Building entry conduits shall slope downward away from the building and shall be sealed to prevent entry of moisture, rodents, etc.

2.9.2 Maintenance Vaults (Manholes)

- Maintenance vaults shall be dedicated for telecommunications systems use; joint use with electric or other utilities are not permitted.
- Maintenance vaults shall be pre-cast concrete, with galvanized interior hardware to include entry ladder, pulling eyes, bonding inserts and struts for racking. Pre-cast neck and shaft extensions shall be provided as required to bring the cover to the finished elevation.
- All maintenance vaults shall be provisioned with Neenah Foundry #R-1751-C frame, with solid outer lid and gasketed inner lid with lock bar. Outer lid shall be permanently marked "Communications".
- Manholes for utilization with multiple conduit duct banks shall have a minimum interior size of 8'x10', Utility Vault Co #510-TA or equivalent. With prior approval from UITs, manholes for utilization with less than 4 conduits may be smaller, 4'x4' nominal exterior dimensions, Utility Vault Co. #444-LA or equivalent.
- Conduits shall enter vaults through single duct knockouts, with the space between the conduit and the knockout filled to form a watertight seal.

2.9.3 Handholes

- Handholes are intended for use as pull points only and shall not be used as splice points without prior written permission from UITs Engineering and Field Operations.
- Handholes shall be polymer concrete, with H-20 traffic rated cover.
- Provide handholes with lockable, vandal resistant galvanized steel insert, as manufactured by McCain Inc. or equivalent.
- Joint use of handholes with electric or other utilities is not permitted.

Part 3 - Products

3.1 Approved Materials List:

All items not specifically covered in these specifications must have the concurrence of the University UITs-Engineering & Field Operations Department before placement or implementation.

3.1.1	Cat. 6A station cables, 0.25" OD	CommScope 760259757 2091SDB YEL C6A 4/23 U/UTP W1000
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3.1.2	Cat. 6 station cables for use in legacy Cat. 6 environments	Cat 6 Systimax #2071E BL 4/23 W1000 (blue jacket)
3.1.3	Outdoor station cables for below grade use	Cat6a, Commscope, CS44P-IO
3.1.4	Multi-Pair Copper Riser Termination blocks	Commscope, 110Connect XC System Category 5e Rack Mount Panel Assembly, 1U, xc wiring block, 100 pair, black, 558635-1
3.1.5	Connecting blocks for multipair copper riser cable 5-pair, PCB, 110 punchdown, white	Commscope, 110Connect XC System Connector Block, 5-pair, PCB, 110 punchdown, white 558402-1
3.1.6	Patch panels angled for station cabling:	Cat. 6, Systimax 360-IPR-1100A-E-GS3-2U-48
		Cat 6A, Systimax 360-IPR-1100A-E-GS6-2U-48
3.1.7	Cat. 6A outlets:	Cat 6A, Systimax #MGS600-262
3.2.1	Cat. 6 outlets: (for use in existing buildings with legacy Cat. 6 cabling):	Cat. 6, Systimax #MGS400-262
3.2.2	Faceplates: Systimax L-Type	M10L-262 (simplex)
	Note: the specified part numbers are for white	M12L-262 (duplex)
	faceplates. If faceplate colors used for adjacent	M13L-262 (triplex)
	outlets are a different color, the color for new	M14L-262 (quadraplex)
	faceplates shall match the color used in the	M20AP series dust covers
	adjacent areas.	
3.2.3	Surface mount jack enclosure for use in emergency phone pedestals, wireless access points.	Blue Light phone jacks, wireless access points, Systimax M202SMB-262.
3.2.4	Blank cover plate:	Single gang, Pass & Seymour #SS14 (single gang)
		Double gang, Pass & Seymour #SS24
3.3.1	Fire Stop	High-capacity sleeves, STI EZ-Path
		High-capacity sleeves, 3M Quick Pass
		High-capacity sleeves, Wiremold FlameStopper
		Caulks and sealants, STI
		Caulks and sealants, 3M
		Caulks and sealants, Nelson
3.3.2	Cable shield connector	Shield Connector w/insert shoe, 3M 4460-S
3.3.3	Bonding & Ground cable/wire	Green Ground Wire, #6 AWG minimum
		Bonding Cable - #6 AWG rated flexible braid with eyelets

3.3.4	Splice case filling compound	Re-enterable type, 3M 4442.
3.3.5	Heat Shrink Tubing	Highly Flame Resistant, semi rigid, polyvinylidene fluoride, Kynar
3.3.6	Cable Ties	Plenum type where required by code, Panduit hook and loop type
3.3.7	Cross Connect Wire	Cat. 5e, 2 pair, solid copper, polyethylene or PVC insulation
3.4.1	Fiber Optic enclosures, rack mount accessories	Systimax G2 Mod Shelves Series. All associated hardware shall be provided, including ground clamp, labels, vertical troughs, horizontal troughs, connector panels, blank panels, etc.
3.4.2	Fiber Optic Connector: LC, fusible splice-on type,	Commscope, Quick-Fuse type LC OS2 760258745 (singlemode)
		Commscope, Quick-Fuse type LC OM4 760258743 (multimode)
3.4.3	Rack mount optical fiber enclosures for riser cable applications	Systimax G2 Optical Fiber Shelves, with duplex LC adapter panels.
3.4.4	Optical fiber riser cable shall be riser rated unless a plenum rating is required by code based on the installation environment. Multimode shall be OM4, singlemode OS2.	OM4 CommScope LazrSPEED 550 (multimode) OS2 CommScope TeraSPEED (singlemode)
3.4.5	Optical fiber outside plant cable installed in tunnels, duct banks, or aerial construction shall be gel free,	Systimax TeraSpeed.
3.4.6	Optical fiber building entrance cable, shall be riser rated, gel free with interlocking armor, tight buffered.	Systimax TeraSPEED.
3.5.1	Surface raceway: Steel or aluminum only.	Wiremold 2400
3.5.2	“D” Rings	Allen Tel GB13A (2 in.), GB13B (4 in.), GB13C (6 in.)
3.5.3	Cable hangers:	nVent/Caddy Cat HP J-Hooks
3.5.4	Wire Basket Cable Tray	Cablofil EZTray
		Eaton Metals Flextray.

		nVent CADDY WBT Performance Cable Tray
3.5.5	Cable Runway for use in Telecom Rooms	Chatsworth Universal Cable Runway series, 12" minimum width with junction splice kits, end caps, runway mounting plates, waterfalls, and support brackets.
3.6.1	Two post equipment racks shall be 7 ft. x 19" freestanding equipment rack, with 6" channel, black in color.	Systimax, Chatsworth, or approved equal
3.6.2	Vertical cable managers	7' high, double-sided cable mangers 6" or 10" as indicated on the drawings, black in color, Chatsworth MCS series
3.6.3	Horizontal cable managers	High capacity cable managers shall be Panduit #NMF4
		Standard size cable managers shall be Panduit #NMF2
		Small cable managers shall be Panduit #NCMHF1.
3.6.4	Blank filler plates for equipment racks	Panduit #CPAF1BLY, provided one per freestanding equipment rack, aligned with MCS Series vertical cable manager hinges as indicated on the drawings.
3.6.5	Four post equipment racks	7 ft. high, 19" EIA width, 29" depth, black Chatsworth #50120-703.
3.6.6	Equipment rack grounding strips	Panduit #RGS134-1Y
		ESD ports shall be Panduit #RGESD2-1,
		with #RGE SDWS wrist strap.
3.6.7	Protectors for multi-pair entrance cable	110-in and 110-out connectors, and unless otherwise noted on the construction documents, shall be rack mounted, Porta Systems 19050-110-110.
	Protector Modules	4B1EW type
3.6.8	Modular protectors for station cables	ITWLinx MC04110 for voice service
		ITWLinx Cat6LAN for Cat6 data service
		ITWLinx Cat6ALAN-75 for Cat6a data service

Part 4 - Acceptance Testing

- 4.1 End-to-end testing of all cable pairs, optical fiber strands, and coax cables shall be performed after completion of installation and termination. UTP station wiring shall be in compliance with

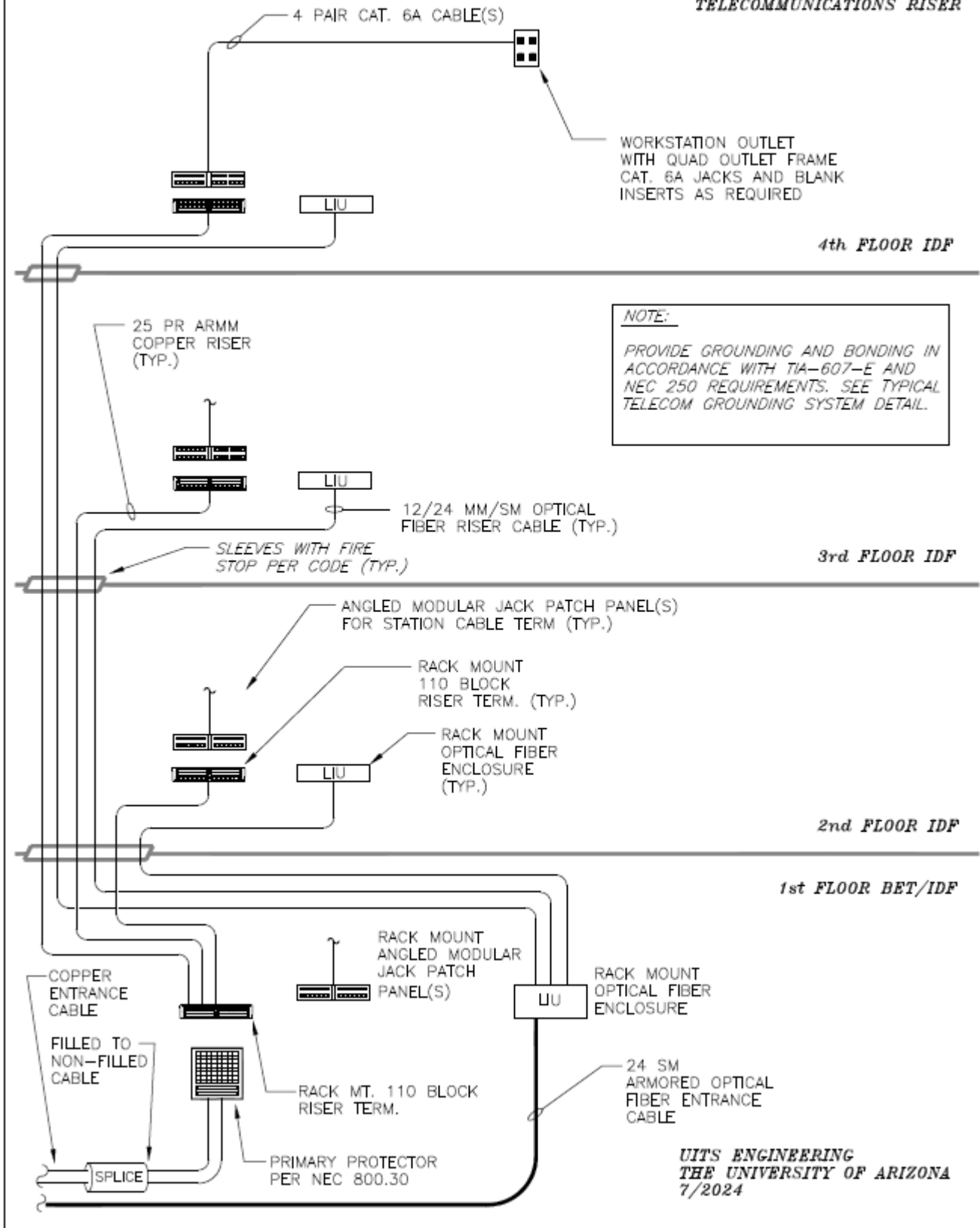
the ANSI/TIA-568.2-E standard for the level of cable being tested (Cat. 6, Cat. 6A). Labels shall be applied at or before the time acceptance testing is performed.

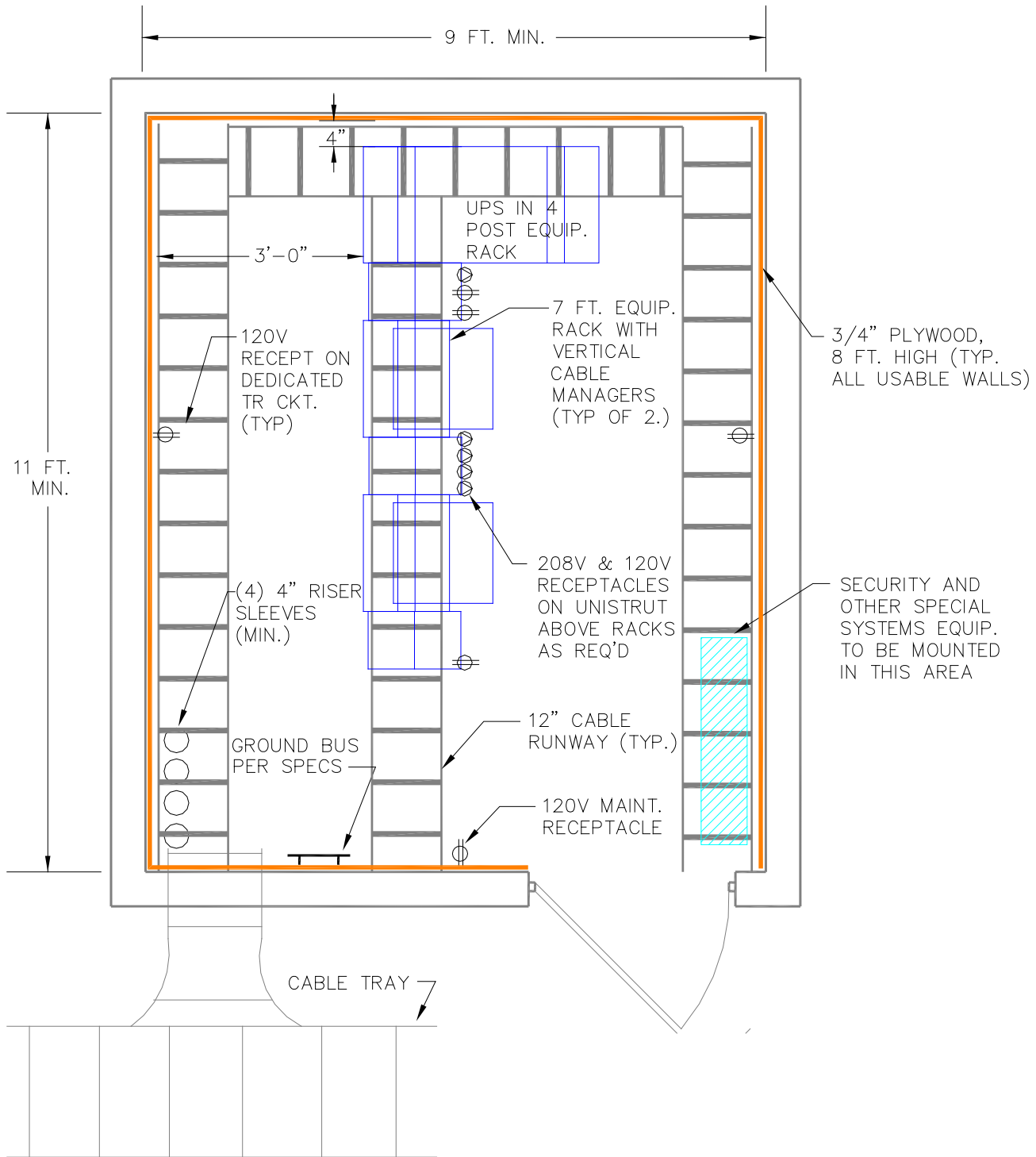
- 4.2 Cable testing shall be performed with the terminating hardware at both ends inserted into the final patch panel, enclosure, or outlet position. For example, testing fiber strands from the back of the fiber enclosure prior to inserting the connector into the adapter panel mounted in its final resting place is not acceptable.
- 4.3 Cable testing shall be performed using Fluke Versiv series test equipment.
- 4.4 Copper station cable tests shall be "Permanent Link" tests, performed with the appropriate test adapters/cords. "Basic Link" and "Channel" tests are not acceptable.
- 4.5 End-to-end attenuation testing of each optical fiber strand shall be made using an optical power meter and optical light source. Multimode fibers shall be tested at 850 and 1300nm. Singlemode fibers shall be tested at 1310 and 1550nm. Attenuation tests shall be performed in both directions.
- 4.6 UITS-Engineering & Field Operations must approve test documentation. Documentation shall be submitted in Fluke LinkWare Database electronic format.
- 4.7 Test result documentation shall indicate the final cable/outlet number assigned to each item tested, as well as identify the project and the telecommunications room serving each item tested. The test result submittal shall be organized by telecommunications room, with the test results in sequential order based on jack id. Test results that are incomplete or that are not organized in sequential order will not be accepted.

Part 5 – Demolition

- 5.1 All abandoned telecommunications cables within a project's boundaries shall be completely removed back to the termination block, including multi-pair cabling, coaxial Ethernet cabling, and station cabling.
- 5.2 Tele/data outlets shown on demolition drawings to be removed shall be removed completely including outlet and wiring to the originating IDF termination point. Termination labels shall be revised to reflect all changes.

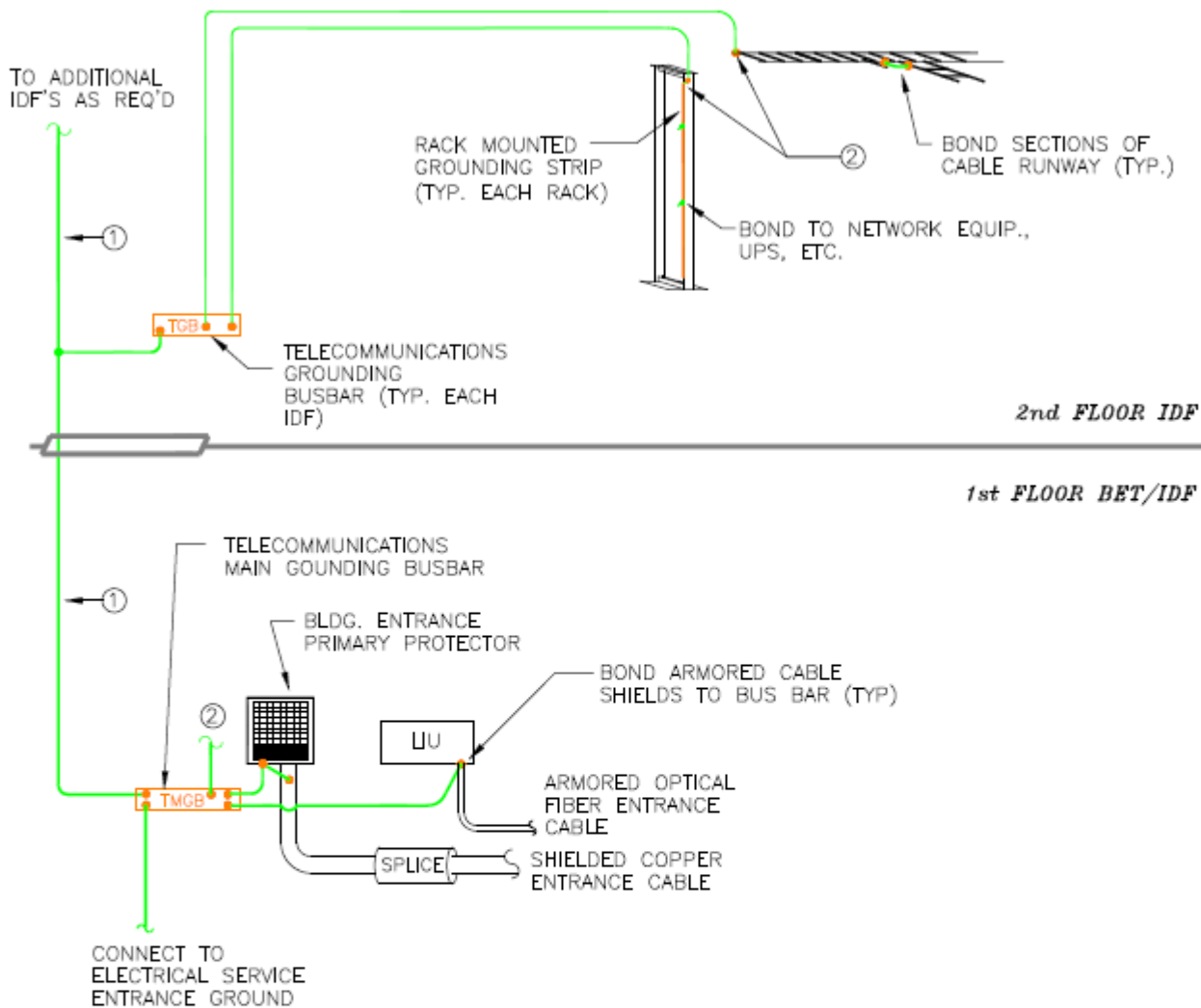
TELECOMMUNICATIONS RISER





TYPICAL TELECOMMUNICATIONS ROOM

TELECOMMUNICATIONS GROUNDING SYSTEM



KEYNOTES

- ① TELECOMMUNICATIONS BONDING BACKBONE. SIZE PER TIA-607-E; #4 AWG MINIMUM.
- ② BOND TO EQUIPMENT RACKS, CABLE RUNWAY, CABLE TRAY, SHIELDED CABLE, ETC. #6 AWG MINIMUM, TYP. OF ALL IDF'S AND BET

NOTE:

GROUNDING AND BONDING SHALL BE IN ACCORDANCE WITH TIA-607-E AND NEC 250 REQUIREMENTS.

UITS ENGINEERING
THE UNIVERSITY OF ARIZONA
7/2024

6.2. Certification of Proposal (vendor to complete and return with proposal)

Explanation. This certification attests to the vendor's awareness and agreement to the content of this RFP and all accompanying provisions contained herein.

Action. Vendor is to ensure that the following certificate is duly completed and correctly executed by an authorized officer of your company.

This proposal is submitted in response to Request for Proposals # RFP L302603 issued by the University of Arizona. The undersigned, as a duly authorized officer, hereby certifies that _____ (Vendor Name), located at _____ (address), agrees to be bound by the content of this proposal and agrees to comply with the terms, conditions and provisions of the referenced Request for Proposals (RFP) and any addenda thereto in the event of an award. Exceptions are to be noted as stated in the RFP. The proposal shall remain in effect for a period of ninety-(90) calendar days as of the Due Date for responses to the RFP.

The undersigned certifies that to the best of his/her knowledge: (check one)

☐ There is no officer or employee of the University of Arizona who has, or whose relative has, a substantial interest in any Contract award subsequent to this proposal.

☐ The names of any and all public officers or employees of the University of Arizona who have, or who's relative has, a substantial interest in any Contract award subsequent to this proposal are identified by name as part of this submittal.

The undersigned further certifies that their firm (check one) ☐ IS **or** ☐ IS NOT currently debarred, suspended, or proposed for debarment by any federal entity. The undersigned agrees to notify the University of any change in this status, should one occur, until such time as an award has been made under this procurement action.

In accordance with [Purchasing Policy 4.3](#) – Small Business Utilization Program, the Undersigned further certifies that your business (check the appropriate areas) ☐ does **or** ☐ does not meet the Federal (S.B.A.) Small Business definition (FAR 19.001) and size standards (FAR 19.102). If it does, please “CHECK” one of the following: ☐ Small Business ☐ Small Disadvantaged ☐ Small Business Women-Owned ☐ Women-Owned Disadvantaged ☐ Veteran owned ☐ HUB Zone ☐ Disabled Veteran Owned ☐ Alaska Native Corp. ☐ Historically Black Colleges and Universities and Minority Institutions

[Arizona Small Business](#) (has less than 100 fulltime employees, including employees employed in any subsidiary or affiliated corporation) please “CHECK one of the following: ☐ AZ. Small Business ☐ AZ. Women Owned ☐ AZ Disadvantaged ☐ AZ Disadvantaged Women-owned.

The undersigned further certifies that as a duly authorized officer, is authorized to negotiate in good faith on behalf of this firm for purposes of this Request for Proposals.

Name: _____ Title: _____

Signature: _____ Date: _____ Email: _____

F.E.I.N: _____

RFP Email and Notification Contact: _____

6.3. LEGAL WORKER CERTIFICATION

Required for all Contracts, Services, Construction or Maintenance of any Structure, Building or Transportation Facility; or Improvements to Real Property costing \$100K and over.

Date: _____

Procurement and Contracting Services
University of Arizona
PO Box 210300
Tucson, AZ 85721-0300

As required by Arizona Revised Statutes §41-4401 the University is prohibited after September 30, 2008, from awarding a contract to any contractor who fails, or whose subcontractors fail, to comply with Arizona Revised Statutes § 23-214-A. The undersigned entity warrants that it complies fully with all federal immigration laws and regulations that relate to its employees, that it shall verify, through the employment verification pilot program as jointly administered by the U.S. Department of Homeland Security and the Social Security Administration or any of its successor programs, the employment eligibility of each employee hired after December 31, 2007, and that it shall require its subcontractors to provide the same warranties to the below entity.

The undersigned acknowledges that a breach of this warranty by the below entity or by any subcontractor(s) under any Contract resulting from this solicitation shall be deemed a material breach of the Contract and is grounds for penalties, including termination of the Contract by the University. The University retains the right to inspect the records of the below entity, subcontractor(s) and employee(s) who perform work under the Contract, and to conduct random verification of the employment records of the below entity and any subcontractor(s) who perform work under the Contract, to ensure that the below entity and each subcontractor is complying with the warranties set forth above. Contractor shall be responsible for all costs associated with compliance with such programs.

(Firm)

(Address)

(Signature Required)

(Phone)

(Print Name)

(Fax)

(Print Title)

(Federal Taxpayer ID Number)

(November 3, 2009)

6.4. CERTIFICATION REGARDING DEBARMENT SUSPENSION, PROPOSED DEBARMENT AND OTHER RESPONSIBILITY MATTERS (MAR 1996)

In accordance with FAR 52.209.5, complete the following certification regarding debarment suspension, proposed debarment and other responsibility matters and **return the completed certification with your solicitation response**. (Applicable to Federal Contracts and Grants >\$30k)

(a) Certification Regarding Debarment Suspension, Proposed Debarment, and Other Responsibility Matters (Mar 1996 as amended)

- (1) The Offeror certifies, to the best of its knowledge and belief, that
 - (i) The Offeror and/or any of its Principals
 - (A) **Are** ☐ **Are Not** ☐ presently debarred, suspended, proposed for debarment, or declared ineligible for the award of contracts by any Federal agency,
 - (B) **Have** ☐ **Have Not** ☐, within a three-year period preceding this offer, been convicted of or had a civil judgment rendered against them for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, state, or local) contract or subcontract, violation of Federal or state antitrust statutes relating to the submission of offers; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, tax evasion, or receiving stolen property; and
 - (C) **Are** ☐ **Are Not** ☐ presently indicted for, or otherwise criminally or civilly charged by a governmental entity with, commission of any of the offenses enumerated in subdivision (a)(1)(i)(B) of this provision.
 - (ii) The Offeror **Has** ☐ **Has Not** ☐, within a three-year period preceding this offer, had one or more contracts terminated for default by any Federal agency.
 - (2) "Principals", for the purposes of this certification, means officers; directors, owners, partners; and persons having primary management or supervisory responsibilities within a business entity (e.g., general manager; plant manager; head of a subsidiary, division, or business segment and similar positions). This Certification Concerns a Matter Within the Jurisdiction of an Agency of the United States and the Making of a False, Fictitious, or Fraudulent Certification May Render the Maker Subject to Prosecution Under Section 1001, Title 18, United States Code.
- (b) The Offeror shall provide immediate written notice to the Contracting Officer if, at any time prior to contract award, the Offeror learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
 - (c) A certification that any of the items in paragraph (a) of this provision exists will not necessarily result in withholding of an award under this solicitation. However, the certification will be considered in connection with a determination of the Offeror's responsibility. Failure of the Offeror to furnish a certification or provide such additional information as requested by the Contracting Officer may render the Offeror non-responsible.
 - (d) Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render, in good faith, the certification required by paragraph (a) of this provision. The knowledge and information of an Offeror is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
 - (e) The certification in paragraph (a) of this provision is a material representation of fact upon which reliance was placed when making award. If it is later determined that the Offeror knowingly rendered an erroneous certification, in addition to other remedies available to the Government the Contracting Officer may terminate the contract resulting from this solicitation for default. (End of Provision)

(NAME OF FIRM)

(ADDRESS, CITY, STATE, ZIP)

(SIGNATURE)

(DATE)

(PRINT OR TYPE - NAME AND TITLE)

6.5. CERTIFICATION AND DISCLOSURE REGARDING PAYMENTS TO INFLUENCE CERTAIN FEDERAL TRANSACTIONS (APR 1991 as amended)

In accordance with FAR 52.203-11 and FAR 52.203-12 entitled "Limitation on Payments to Influence Certain Federal Transactions (Jun 1997 as amended), the following certification and disclosure regarding these FAR provisions are hereby incorporated and made a part of this bid/proposal solicitation requirement. (Applicable to Federal Grants and Contracts >\$150k)

- (a) The definitions and prohibitions contained in the clause, at FAR 52.203.12, Limitation on Payments to Influence Certain Federal Transactions, included in this solicitation, are hereby incorporated by reference in paragraph (b) of this certification.
- (b) The Offeror, **by signing its offer**, hereby certifies to the best of his or her knowledge and belief that on or after December 23, 1989
 - (1) No Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress on his or her behalf in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment or modification of any Federal contract, grant, loan, or cooperative agreement;
 - (2) If any funds other than Federal appropriated funds (including profit or fee received under a covered Federal transaction) have been paid, or will be paid, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress on his or her behalf in connection with this solicitation, the Offeror shall complete and submit, with its offer, OMB standard form LLL, Disclosure of Lobbying Activities, to the Contracting Officer; and
 - (3) He or she will include the language of this certification in all subcontract awards at any tier and require that all recipients of subcontract awards in excess of \$ 100,000 shall certify and disclose accordingly
- (c) Submission of this certification and disclosure is a prerequisite for making or entering into this contract imposed by section 1352, title 31, United States Code. Any person who makes expenditure prohibited under this provision or who fails to file or amend the disclosure form to be filed or amended by this provision, shall be subject to a civil penalty of not less than \$10,000, and not more than \$100,000, for each such failure.

(NAME OF FIRM)

(STREET ADDRESS)

(SIGNATURE)

(MAILING ADDRESS)

(TYPED OR PRINTED NAME)

(CITY, STATE, ZIP)

(DATE)