

INVITATION TO BID

NKCC-01-20



Student Union Renovation – Sbarro Pizza

September 26, 2019

ATTENTION: This is not an order. Read all instructions, terms and conditions carefully.

Proposal NO: NKCC-01-20
Issue Date: 9/26/2019
Purchasing Officer: Blaine Gilmore
Phone: 859.572.6449

RETURN ORIGINAL COPY OF PROPOSAL TO:

**Northern Kentucky University
 Procurement Services
 1 Nunn Drive
 617 Lucas Administrative Center
 Highland Heights, KY 41099**

IMPORTANT: BIDS MUST BE RECEIVED BY: 10/18/2019 BEFORE 2:00 P.M. HIGHLAND HEIGHTS, KY time.

NOTICE OF REQUIREMENTS

1. The University's General Terms and Conditions and Instructions to Bidders, viewable at the [NKU Procurement Website](#), apply to this Request for Proposal.
2. Contracts resulting from this ITB must be governed by and in accordance with the laws of the Commonwealth of Kentucky.
3. Any agreement or collusion among Offerors or prospective Offerors, which restrains, tends to restrain, or is reasonably calculated to restrain competition by agreement to bid at a fixed price or to refrain from offering, or otherwise, is prohibited.
4. Any person who violates any provisions of KRS 45A.325 shall be guilty of a felony and shall be punished by a fine of not less than five thousand dollars nor more than ten thousand dollars, or be imprisoned not less than one year nor more than five years, or both such fine and imprisonment. Any firm, corporation, or association who violates any of the provisions of KRS 45A.325 shall, upon conviction, may be fined not less than ten thousand dollars or more than twenty thousand dollars.

AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION AND NON-CONFLICT OF INTEREST

I hereby swear (or affirm) under the penalty for false swearing as provided by KRS 523.040:

1. That I am the offeror (if the offeror is an individual), a partner, (if the offeror is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the offeror is a corporation);
2. That the attached proposal has been arrived at by the offeror independently and has been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other Contractor of materials, supplies, equipment or services described in the Request for Proposal, designed to limit independent bidding or competition;
3. That the contents of the proposal have not been communicated by the offeror or its employees or agents to any person not an employee or agent of the offeror or its surety on any bond furnished with the proposal and will not be communicated to any such person prior to the official closing of the ITB;
4. That the offeror is legally entitled to enter into contracts with the Northern Kentucky University and is not in violation of any prohibited conflict of interest, including those prohibited by the provisions of KRS 45A.330 to .340, 164.390, and
5. That the Offeror, and its affiliates, are duly registered with the Kentucky Department of Revenue to collect and remit the sale and use tax imposed by Chapter 139 to the extent required by Kentucky law and will remain registered for the duration of any contract award
6. That I have fully informed myself regarding the accuracy of the statement made above.

SWORN STATEMENT OF COMPLIANCE WITH FINANCE LAWS

In accordance with KRS45A.110 (2), the undersigned hereby swears under penalty of perjury that he/she has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky and that the award of a contract to a bidder will not violate any provision of the campaign finance laws of the Commonwealth of Kentucky.

CONTRACTOR REPORT OF PRIOR VIOLATIONS OF KRS CHAPTERS 136, 139, 141, 337, 338, 341 & 342

The Contractor by signing and submitting a proposal agrees as required by 45A.485 to submit final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341 and 342 that have occurred in the previous five (5) years prior to the award of a contract and agrees to remain in continuous compliance with the provisions of the statutes during the duration of any contract that may be established. Final determinations of violations of these statutes must be provided to the University by the successful Contractor prior to the award of a contract.

CERTIFICATION OF NON-SEGREGATED FACILITIES

The Contractor, by submitting a proposal, certifies that he/she is in compliance with the Code of Federal Regulations, No. 41 CFR 60-1.8(b) that prohibits the maintaining of segregated facilities.

RECIPROCAL PREFERENCE

- (1) Prior to a contract being awarded to the lowest responsible and responsive bidder on a contract by a public agency, a resident bidder of the Commonwealth shall be given a preference against a nonresident bidder registered in any state that gives or requires a preference to bidders from that state. The preference shall be equal to the preference given or required by the state of the nonresident bidder.
- (2) A resident bidder is an individual, partnership, association, corporation, or other business entity that, on the date the contract is first advertised or announced as available for bidding:
 - (a) Is authorized to transact business in the Commonwealth; and
 - (b) Has for one (1) year prior to and through the date of the advertisement, filed Kentucky corporate income taxes, made payments to the Kentucky unemployment insurance fund established in KRS 341.490, and maintained a Kentucky workers' compensation policy in effect.
- (3) A nonresident bidder is an individual, partnership, association, corporation, or other business entity that does not meet the requirements of subsection (2) of this section.
- (4) If a procurement determination results in a tie between a resident bidder and a nonresident bidder, preference shall be given to the resident bidder.
- (5) This section shall apply to all contracts funded or controlled in whole or in part by a public agency.
- (6) The Finance and Administration Cabinet shall maintain a list of states that give to or require a preference for their own resident bidders, including details of the preference given to such bidders, to be used by public agencies in determining resident bidder preferences. The cabinet shall also promulgate administrative regulations in accordance with KRS Chapter 13A establishing the procedure by which the preferences required by this section shall be given.
- (7) The preference for resident bidders shall not be given if the preference conflicts with federal law.
- (8) Any public agency soliciting or advertising for bids for contracts shall make KRS 45A.490 to 45A.494 part of the solicitation or advertisement for bids

DEFINITIONS

As used in KRS 45A.490 to 45A.494: (1) "Contract" means any agreement of a public agency, including grants and orders, for the purchase or disposal of supplies, services, construction, or any other item; and
 (2) "Public agency" has the same meaning as in KRS 61.805.

SIGNATURE REQUIRED: This proposal cannot be considered valid unless signed and dated by an authorized agent of the offeror. Type or print the signatory's name, title, address, phone number and fax number in the spaces provided. Offers signed by an agent are to be accompanied by evidence of his/her authority unless such evidence has been previously furnished to the issuing office. Your signature is acceptance to the Terms and conditions above.

DELIVERY TIME:	NAME OF COMPANY:	DUNS #
PROPOSAL FIRM THROUGH:	ADDRESS:	Phone/Fax:
PAYMENT TERMS:	CITY, STATE & ZIP CODE:	E-MAIL:
SHIPPING TERMS: F.O.B. DESTINATION - PREPAID AND ALLOWED	FEDERAL EMPLOYER ID NO.:	WEB ADDRESS:

READ CAREFULLY - SIGN IN SPACE BELOW - FAILURE TO SIGN INVALIDATES BID or OFFER

AUTHORIZED SIGNATURE: _____

NAME (Please Print Legibly): _____

TITLE: _____ DATE: _____

State of _____)

County of _____)

The foregoing statement was sworn to me this _____ day of _____, 20____, by
 _____.

(Notary Public)
 My Commission expires: _____

THIS DOCUMENT MUST BE NOTORIZED

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1.0 DEFINITIONS

The term "ITB" means Invitation to Bid or this document

The term "addenda" means written or graphic instructions issued by the Northern Kentucky University prior to the receipt of proposals that modify or interpret the ITB documents by additions, deletions, clarifications and/or corrections.

The terms "offer" or "bid" mean the offeror's/offers' response to this ITB.

The term "offeror" means the entity or contractor group submitting the proposal.

The term "contractor" means the entity receiving a contract award.

The term "purchasing agent" means Northern Kentucky University appointed contracting representative.

The term "responsible offeror" means a person, company or corporation that has the capability in all respects to perform fully the contract requirements and the integrity and reliability that will assure good faith performance. In determining whether an offeror is responsible, the University may evaluate various factors including (but not limited to): financial resources; experience; organization; technical qualifications; available resources; record of performance; integrity; judgment; ability to perform successfully under the terms and conditions of the contract; adversarial relationship between the offeror and the University that is so serious and compelling that it may negatively impact the work performed under this ITB; or any other cause determined to be so serious and compelling as to affect the responsibility of the offeror.

The term "solicitation" means ITB.

The term "University" means Northern Kentucky University.

General Terms & Conditions Available to view / download at:

https://inside.nku.edu/content/dam/Procurement/docs/forms/General%20Terms%20%20Conditions_RS_jg11-1-18.pdf

An electronic version of the ITB, in .PDF format only, is available through Northern Kentucky University's Plan Room at <https://www.nkuplanroom.com/purchasing/View/Login>.

2.0 GENERAL OVERVIEW

2.1 Intent and Scope

Northern Kentucky University is seeking a Contractor to provide all materials, labor, tools, supervision, and equipment required to: Provide services for renovation of former national franchise pizza operation being retrofitted to accommodate Sbarro’s full service in-line operations. Work must achieve Final Completion by Jan 6, 2019.

2.2 University Information

Information regarding Northern Kentucky University can be found at <https://inside.nku.edu/>

3.0 Special Conditions to Bidder

All work and cleaning to be completed by date outlined in 3.1 as Final Completion in order to allow adequate timing for testing by owner/Sbarro’s equipment.

Temporary Construction

Bidders to include temporary barricade, door, and draping as part of bid number in order to maintain construction area as a dust free zone for duration of construction. Adjacent food service areas and dining will be in active use throughout the construction period.

Application made for Payment

Application for Payment shall be submitted with a schedule of values for the Work covered by the applications and certificate of payment that has been completed in accordance with the contract documents.

Change Orders

All change orders must be approved by the Project Manager for revised/additional scope to the contract documents before Work may be completed. Description must be submitted with contractor pricing of proposed change.

3.1 Key Project Dates

Release of ITB	9/26/2019
Pre-Bid Conference (Optional)	NONE
Deadline for Written Questions	Noon Eastern Time on 10/04/2019
Deadline for Written Response/Addenda	Noon Eastern Time on 10/10/2019
BIDS DUE	2 p.m. Eastern Time on 10/17/2019
Contract Award*	10/25/2018

***Project Dates:**

Start Date shall be November 27, 2019

Substantial Completion shall be December 30, 2019

Final Completion shall be January 6, 2019

3.2 Offeror Communication

Information relative to this project obtained from other sources, including other university administration, faculty or staff may not be accurate, will not be considered binding and could adversely affect the potential for selection of your bid. All requests for information, questions or comments relative to this project should be directed, in writing to:

Ryan Straus
Coordinator, Contracts & Bidding
Procurement Services
Lucas Administrative Center, Suite 617
Northern Kentucky University
Highland Heights, KY 41099
Strausr2@nku.edu

3.3 Pre-Proposal Conference

There will be no pre-bid conference for this project. Please email Ryan Straus, Coordinator, Procurement Services strausr2@nku.edu with any questions.

3.4 Preparation of Offers

The offeror is expected to follow all specifications, terms, conditions and instructions in this ITB.

The offeror will furnish all information required by this solicitation.

Proposals should be prepared simply and economically, providing a description of the offeror's capabilities to satisfy the requirements of the solicitation. Emphasis should be on completeness and clarity of content. All documentation submitted with the proposal should be bound in the single volume except as otherwise specified.

3.5 Bid Submission and Deadline

The bidder shall submit, by the time and date specified via US Postal Service, courier or other delivery service, its bid response in a **sealed package** addressed to:

Blaine Gilmore
Director, Procurement Services
Lucas Administrative Center, Suite 617
1 Nunn Drive
Northern Kentucky University
Highland Heights, KY 41099

Both inner and outer envelopes/packages should bear respondent's name and address, and clearly marked on package(s) as follows:

ITB NKCC-01-20
(SU RENOVATION – SBARRO PIZZA)

Note: Bids received after the closing date and time will not be considered. In addition, proposals received via fax or e-mail are not acceptable.

3.6 Modification or Withdrawal of Offer

An offer and/or modification of offer received at the office designated in the solicitation after the exact hour and date specified for receipt will not be considered.

An offer may be modified or withdrawn by written notice before the exact hour and date specified for receipt of offers. An offer also may be withdrawn in person by an offeror or an authorized representative, provided the identity of the person is made known and the person signs a receipt for the offer, but only if the withdrawal is made prior to the exact hour and date set for receipt of offers.

3.7 Acceptance or Rejection and Award of Proposal

The University reserves the right to accept or reject any or all bids, to waive any informalities or technicalities, to clarify any ambiguities in bids in the proposal. In case of error in extension or prices or other errors in calculation, the unit price shall govern. Further, the University reserves the right to make a single award, split awards, multiple awards or no award, whichever is in the best interest of the University.

3.8 Rejection

Grounds for the rejection of proposals include (but shall not be limited to):

- a) Failure of a bid to conform to the essential requirements of the ITB.
- b) Imposition of conditions that would significantly modify the terms and conditions of the solicitation or limit the offeror's liability to the University on the contract awarded on the basis of such solicitation.
- c) Failure of the offeror to sign the University ITB. This includes the Authentication of Proposal and Statement of Non-Collusion and Non-Conflict of Interest statements. (pages 1 & 2)
- d) Failure to sign the Bid Form / Form of Proposal
- e) Receipt of bid after the closing date and time specified in the ITB.

3.19 Addenda

Any addenda or instructions issued by the purchasing agent prior to the time for receiving proposals shall become a part of this ITB. Such addenda shall be acknowledged on the bid form or form of proposal. No instructions or changes shall be binding unless documented by a proper and duly issued addendum.

3.10 Disclosure of Offeror's Response

The ITB specifies the format, required information and general content of proposals submitted in response to this ITB. The purchasing agent will not disclose any portions of the proposals prior to contract award to anyone outside the Office of Procurement Services, the University's administrative staff, representatives of

the state or federal government (if required) and the members of the committee evaluating the proposals. After a contract is awarded in whole or in part, the University shall have the right to duplicate, use or disclose all proposal data submitted by offerors in response to this ITB as a matter of public record.

Any submitted proposal shall remain valid for 90 days after the proposal due date.

3.11 Restrictions on Communications with University Staff

From the issue date of this ITB until a contractor is selected and a contract award is made, offerors are not allowed to communicate about the subject of the ITB with any University administrator, faculty, staff or members of the board of regents except: the purchasing agent representative, any University purchasing official representing the University administration, others authorized in writing by the Office of Procurement Services and University representatives during offeror presentations. If violation of this provision occurs, the University reserves the right to reject the offeror's proposal.

3.12 Cost of Preparing Bid or Proposal

Costs for developing the bids or proposals and any subsequent activities prior to contract award are solely the responsibility of the offerors. The University will provide no reimbursement for such costs.

3.13 Questions

All questions should be submitted by either fax or e-mail to the purchasing agent listed in Section 3.2 no later than the date listed in Section 3.1.

3.14 No Contingent Fees

No person or selling agency shall be employed or retained or given anything of monetary value to solicit or secure this contract, except bona fide employees of the offeror or bona fide established commercial or selling agencies maintained by the offeror for the purpose of securing business. For breach or violation of this provision, the University shall have the right to reject the proposal, annul the contract without liability, or, at its discretion, deduct from the contract price or otherwise recover the full amount of such commission, percentage, brokerage or contingent fee or other benefit.

3.15 Proposal Addenda and Rules for Withdrawal

Prior to the date specified for receipt of offers, a submitted proposal may be withdrawn by submitting a written request for its withdrawal to the University purchasing office, signed by the offeror. Unless requested by the University, the University will not accept revisions or alterations to proposals after the proposal due date.

3.16 Effective Date

The effective date of the contract shall be the date upon which the parties execute it and all appropriate approvals, including that of the (if applicable) Commonwealth of Kentucky Legislative Contracts Review Committee, have been received.

3.17 Contractor Cooperation in Related Efforts

The University reserves the right to undertake or award other contracts for additional or related work to other entities. The contractor shall fully cooperate with such other contractors and University employees and carefully fit its work to such additional work. The contractor shall not commit or permit any act which will interfere with the performance of work by any other contractor or by University employees. This clause shall be included in the contracts of all contractors with whom this contractor will be required to cooperate. The University shall equitably enforce this clause to all contractors to prevent the imposition of unreasonable burdens on any contractor.

3.18 Governing Law

The contractor shall conform to and observe all laws, ordinances, rules and regulations of the United States of America, Commonwealth of Kentucky and all other local governments, public authorities, boards or offices relating to the property or the improvements upon same (or the use thereof) and will not permit the same to be used for any illegal or immoral purposes, business or occupation. The resulting contract shall be governed by Kentucky law and any claim relating to this contract shall only be brought in the Franklin Circuit Court in accordance with KRS 45A.245.

3.19 Kentucky's Personal Information Security and Breach Investigation Procedures and Practices Act

To the extent Company receives Personal Information as defined by and in accordance with Kentucky's Personal Information Security and Breach Investigation Procedures and Practices Act, KRS 61.931, 61.932 and 61.933 (the "Act"), Company shall secure and protect the Personal Information by, without limitation: (i) complying with all requirements applicable to non-affiliated third parties set forth in the Act; (ii) utilizing security and breach investigation procedures that are appropriate to the nature of the Personal Information disclosed, at least as stringent as University's and reasonably designed to protect the Personal Information from unauthorized access, use, modification, disclosure, manipulation, or destruction; (iii) notifying University of a security breach relating to Personal Information in the possession of Company or its agents or subcontractors within seventy-two (72) hours of discovery of an actual or suspected breach unless the exception set forth in KRS 61.932(2)(b)2 applies and Company abides by the requirements set forth in that exception; (iv) cooperating with University in complying with the response, mitigation, correction, investigation, and notification requirements of the Act, (v) paying all costs of notification, investigation and mitigation in the event of a security breach of Personal Information suffered by Company; and (vi) at University's discretion and direction, handling all administrative functions associated with notification, investigation and mitigation.

3.20 Termination for Convenience

Northern Kentucky University, Office of Procurement Services, reserves the right to terminate the resulting contract without cause with a thirty (30) day written notice. Upon receipt by the contractor of a “notice of termination,” the contractor shall discontinue all services with respect to the applicable contract. The cost of any agreed upon services provided by the contractor will be calculated at the agreed upon rate prior to a “notice of termination” and a fixed fee contract will be pro-rated (as appropriate).

3.21 Termination for Non-Performance**a) Default**

The University may terminate the resulting contract for non-performance, as determined by the University, for such causes as:

- Failing to provide satisfactory quality of service, including, failure to maintain adequate personnel, whether arising from labor disputes, or otherwise any substantial change in ownership or proprietorship of the Contractor, which in the opinion of the University is not in its best interest, or failure to comply with the terms of this contract;
- Failing to keep or perform, within the time period set forth herein, or violation of, any of the covenants, conditions, provisions or agreements herein contained;
- Adjudicating as a voluntarily bankrupt, making a transfer in fraud of its creditors, filing a petition under any section from time to time, or under any similar law or statute of the United States or any state thereof, or if an order for relief shall be entered against the Contractor in any proceeding filed by or against contractor thereunder. In the event of any such involuntary bankruptcy proceeding being instituted against the Contractor, the fact of such an involuntary petition being filed shall not be considered an event of default until sixty (60) days after filing of said petition in order that Contractor might during that sixty (60) day period have the opportunity to seek dismissal of the involuntary petition or otherwise cure said potential default; or
- Making a general assignment for the benefit of its creditors, or taking the benefit of any insolvency act, or if a permanent receiver or trustee in bankruptcy shall be appointed for the Contractor.

b) Demand for Assurances

In the event the University has reason to believe Contractor will be unable to perform under the Contract, it may make a demand for reasonable assurances that Contractor will be able to timely perform all obligations under the Contract. If Contractor is unable to provide such adequate assurances, then such failure shall be an event of default and grounds for termination of the Contract.

c) Notification

The University will provide ten (10) calendar days written notice of default. Unless arrangements are made to correct the non-performance issues to the University’s satisfaction within ten (10) calendar days, the

University may terminate the contract by giving forty-five (45) days notice, by registered or certified mail, of its intent to cancel this contract.

3.22 Funding Out

The University may terminate this contract if funds are not appropriated or are not otherwise available for the purpose of making payments without incurring any obligation for payment after the date of termination, regardless of the terms of the contract. The University shall provide the contractor thirty (30) calendar days' written notice of termination under this provision.

3.23 Assignment and Subcontracting

The Contractor(s) may not assign or delegate its rights and obligations under any contract in whole or in part without the prior written consent of the University. Any attempted assignment or subcontracting shall be void.

3.24 Permits, Licenses, Taxes

The contractor shall procure all necessary permits and licenses and abide by all applicable laws, regulations and ordinances of all federal, state and local governments in which work under this contract is performed.

The contractor must furnish certification of authority to conduct business in the Commonwealth of Kentucky as a condition of contract award. Such registration is obtained from the Secretary of State, who will also provide the certification thereof. However, the contractor need not be registered as a prerequisite for responding to the ITB.

The contractor shall pay any sales, use, personal property and other tax arising out of this contract and the transaction contemplated hereby. Any other taxes levied upon this contract, the transaction or the equipment or services delivered pursuant hereto shall be the responsibility of the contractor.

The contractor will be required to accept liability for payment of all payroll taxes or deductions required by local and federal law including (but not limited to) old age pension, social security or annuities.

3.25 Attorneys' Fees

In the event that either party deems it necessary to take legal action to enforce any provision of the contract and in the event that the University prevails, the contractor agrees to pay all expenses of such action including attorneys' fees and costs at all stages of litigation.

3.26 Royalties, Patents, Copyrights and Trademarks

The Contractor shall pay all applicable royalties and license fees. If a particular process, products or device is specified in the contract documents and it is known to be subject to patent rights or copyrights, the existence of such rights shall be disclosed in the contract documents and the Contractor is responsible for payment of all associated royalties. To the fullest extent permitted by law the Contractor shall indemnify,

hold the University harmless, and defend all suits, claims, losses, damages or liability resulting from any infringement of patent, copyright, and trademark rights resulting from the incorporation in the Work or device specified in the Contract Documents.

Unless provided otherwise in the contract, the Contractor shall not use the University's name nor any of its trademarks or copyrights, although it may state that it has a Contract with the University.

3.27 Indemnification

The contractor shall indemnify, hold and save harmless the University, its affiliates and subsidiaries and their officers, agents and employees from losses, claims, suits, actions, expenses, damages, costs (including court costs and attorneys' fees of the University's attorneys), all liability of any nature or kind arising out of or relating to the Contractor's response to this ITB or its performance or failure to perform under the contract awarded from this ITB. This clause shall survive termination for as long as necessary to protect the University.

3.28 Insurance

If awarded, bidder / proposer must provide NKU with an insurance certificate listing NKU as a certificate holder and additionally insured.

**Northern Kentucky University
617 Lucas Administrative Center
1 Nunn Drive
Highland Heights, KY 41099**

The Contractor shall furnish the University the Certificates of Insurance and guarantee the maintenance of such coverage during the term of the contract. The Contractor shall provide an original policy endorsement of its CGL insurance naming Northern Kentucky University and the directors, officers, trustees, and employees of the University as additional insured on a primary and non-contributory basis as their interest appears. Additionally, the Contractor shall provide an original policy endorsement for Waiver of subrogation in favor of the Northern Kentucky University its directors, officers, trustees, and employees as additional insured.

Our basic insurance requirements are:

Workers' Compensation insurance with Kentucky's statutory limits and Employers' Liability insurance with at least \$100,000 limits of liability.

Comprehensive General Liability (CGL) Insurance the limits of liability shall not be less than \$500,000 each occurrence for bodily injury and \$250,000 property damage.

Comprehensive Automobile Liability Insurance: To cover all owned, hired, leased or non-owned vehicles used on the Project. Coverage shall be for all vehicles including off the road tractors, cranes and rigging equipment and include pollution liability from vehicle upset or overturn. Policy limits shall not be less than \$500,000 for bodily injury and \$100,000 for property damage.

Excess liability insurance in an umbrella form for excess coverages shall have a minimum of \$1,000,000 combined single limits for bodily injury and property damage for each.

If accessing NKU Student, Employee, or other personal records, vendor needs Security and Privacy Liability Insurance with limits no less than \$1,000,000.

If accessing NKU Student, Employee, or other personal records, vendor needs Evidence Breach Response Services coverage with limits no less than \$5,000,000.

3.29 Method of Award

It is the intent of the University to award a contract to the qualified offeror whose bid, conforming to the conditions and requirements of the ITB, is determined to be the lowest.

Notwithstanding the above, this ITB does not commit the University to award a contract from this solicitation. The University reserves the right to reject any or all offers and to waive formalities and minor irregularities in the bid received.

3.30 Reciprocal Preference

In accordance with KRS 45A.494, a resident offeror of the Commonwealth of Kentucky shall be given a preference against a nonresident offeror. In evaluating proposals, the University will apply a reciprocal preference against an offeror submitting a proposal from a state that grants residency preference equal to the preference given by the state of the nonresident offeror. Residency and non-residency shall be defined in accordance with KRS 45A.494(2) and 45A.494(3), respectively. Any offeror claiming Kentucky residency status shall submit with its proposal a notarized affidavit affirming that it meets the criteria as set forth in the above reference statute.

An affidavit is provided and attached, for your convenience to this ITB.

3.31 Reports and Auditing

The University, or its duly authorized representatives, shall have access to any books, documents, papers, records or other evidence which are directly pertinent to this contract for the purpose of financial audit or program review.

3.32 Confidentiality

The University recognizes an offeror's possible interest in preserving selected information and data included in the proposal; however, the University must treat such information and data as required by the Kentucky Open Records Act, KRS 61.870, et seq.

If the offeror declares information provided in their response to be proprietary in nature and not available for public disclosure, the offeror shall declare in their response the inclusion of proprietary information and shall noticeably label as confidential or proprietary each sheet containing such information. Proposals containing information declared by the offeror to be proprietary or confidential, either wholly or in part, not excluded by the Kentucky Open Records Act, KRS 61.870 may be deemed non-responsive and may be rejected.

The University's General Counsel shall review each offeror's information claimed to be confidential and, in consultation with the offeror (if needed), make a final determination as to whether or not the confidential or proprietary nature of the information or data complies with the Kentucky Open Records Act.

3.33 Conflict of Interest

When submitting and signing a proposal, an offeror is certifying that no actual, apparent or potential conflict of interest exists between the interests of the University and the interests of the offeror. A conflict of interest (whether contractual, financial, organizational or otherwise) exists when any individual, contractor or subcontractor has a direct or indirect interest because of a financial or pecuniary interest, gift or other activities or relationships with other persons (including business, familial or household relationships) and is thus unable to render or is impeded from rendering impartial assistance or advice, has impaired objectivity in performing the proposed work or has an unfair competitive advantage.

Questions concerning this section or interpretation of this section should be directed to the University purchasing agent identified in this ITB.

3.34 Personal Service Contract Policies

This ITB is for consulting or other personal services. Kentucky law requires a Personal Services Contract to be signed by the vendor and filed with the Legislative Research Commission in Frankfort prior to any work beginning. [KRS 45A.690](#) defines a Personal Service Contract as "an agreement whereby an individual, firm, partnership, or corporation is to perform certain services requiring professional skill or professional judgment for a specified period of time at a price agreed upon."

After Determination but prior to award, a Personal Services Contract will be sent to the winning offeror for signature. Please be sure to sign and return the **original** contract promptly to Northern Kentucky University. A Notice of Award will not be issued until the signed Personal Services Contract has been received by Procurement Services and filed with the Legislative Research Commission in Frankfort, KY.

REGARDING PERSONAL SERVICE CONTRACT INVOICING

House Bill 387 has now amended Kentucky Revised Statute 45A.695(10)(A) with the following language, "No payment shall be made on any personal service contract unless the individual, firm, partnership, or corporation awarded the personal service contract submits its invoice for payment on a form established by the committee". The Personal Service Contract Invoice Form shall be used for this purpose and for your convenience we have added fields so that it can be filled in online and printed. This form can be located on NKU's Procurement Services website at: www.lrc.ky.gov/statcomm/contracts/PSC%20INVOICE%20form.pdf

3.35 Parking Permits

Contractor must obtain parking permits for all vehicles that will be parked on campus. Permits can be obtained at the Welcome Center for \$80/month per vehicle.

<http://parking.nku.edu/rules/guidelines.html>

3.36 Tobacco Free Campus

Effective January 1st, 2014, NKU will be a tobacco free campus. The use of all tobacco products shall be prohibited in all campus buildings and outside areas on campus.

3.37 Statutory Authority

Selection of firms to provide professional services to Northern Kentucky University are governed by the provisions of the Kentucky Revised Statutes, KRS 45A.085, <http://www.lrc.ky.gov/KRS/045A00/085.PDF>

3.38 Foreign Corporations

Foreign corporations are defined as corporations that are organized under laws other than the laws of the commonwealth of Kentucky. Foreign corporations doing business within the commonwealth of Kentucky are required to be registered with the Secretary of State, New Capitol Building, Frankfort, Kentucky and must be in good standing.

The Foreign Corporate Proposer, if not registered with the Secretary of State at the time of the bid submittal, shall be required to become registered and be declared in good standing prior to the issuance or receipt of a contract.

3.39 Domestic Corporations

Domestic corporations are required to be in good standing

3.40 Occupational License

Northern Kentucky University was annexed by the city of Highland Heights in 2008. All contractors performing work for NKU must possess a Campbell County Occupational License and a city of Highland Heights Occupational License (administered by Campbell County) and must also pay applicable payroll taxes. For further information, call 859-572-6605.

3.41 Bid Bonds:

A 5% bid bond is required with submission of this ITB.

3.42 Payment and Performance Bonds

100% Payment and Performance Bonds will be required for work arising from this ITB.

3.43 Completion Dates or Liquidated Damages if applicable

It is understood and agreed that time is of the essence. The Contractor will efficiently, diligently, and expeditiously conduct the work in a manner that will satisfy compliance with approved project schedules and completion by the completion date appearing in the body of this bid.

Substantial Completion shall be December 30, 2019

Final Completion shall be January 6, 2019

All work and cleaning to be completed by January 6th in order to allow adequate timing for testing by owner/Sbarro's equipment.

3.44 Coordination of Work

The Vendor shall be responsible for coordinating all work with the **NKU Project Manager**. The Contractor shall cooperate completely with the Owner's security forces and measures.

3.45 Damage and Repairs

The Contractor shall exercise particular care to avoid damage to his own work, the Owner's property, and adjacent property of every description. He shall make good any damage resulting from or caused by the work under this contract at his sole expense in a manner satisfactory and without extra cost to the Owner including, but not limited to, finishes, furnishings, and landscaping.

3.46 Hazardous Materials

No asbestos containing materials, lead based paints, or other hazardous materials shall be furnished or installed in this work.

3.47 Examination of Site

Each vendor shall fully acquaint and familiarize themselves with the conditions as they exist and the character of the operation to be carried on under the proposed contract and has made such investigation as may be reasonably necessary so that the vendor shall fully understand the facilities, physical conditions and restrictions attending to the work under the contract. The specifications furnished represent a fair approximation of the material needed but all quotations submitted should take into account knowledge gained as a result of the above referenced visual inspection.

3.48 Examination of Contract

Each vendor shall also thoroughly examine and become familiar with the specifications and associated contract documents. By submitting a bid, the vendor agrees that they have carefully examined the specifications and have thereupon decided that from their own investigation Contractor has satisfied themselves as to the nature and location of work, the general and local conditions and all matters which may in any way affect the work or its performance and that as a result of such examination and investigation, vendor fully understands the intent and purpose of the documents and conditions of the bidding. Claims for additional compensation and/or extension of time because of the vendor's failure to follow the foregoing procedure and to familiarize themselves with the Contract Documents and all conditions which might affect work will not be allowed.

3.49 Field Verification

It is the Vendor's responsibility to verify all measurements.

3.50 Hours of Work

Working days at Northern Kentucky University are Monday through Friday, 8:00am to 4:30pm. Deviation from these working hours must be approved by said project manager.

3.51 Warranty

Offeror shall stand behind installed system for period of 1 year from Date of Substantial Completion against all the conditions indicated below as part of but not limited to Description of Work outlined in 4.0. Offeror is not responsible for warranty of OFCI equipment or signage. When notified in writing from Owner, Offeror shall, promptly and without inconvenience and cost to Owner correct said deficiencies.

4.0 DESCRIPTION OF WORK

- A. The Work of the Project is defined by the Contract Documents and consists of the following:
 - 1. The Work for Northern Kentucky University / Sbarro's – 2nd Floor Student Union Renovation consists of retrofitting the existing food service venue to accommodate Sbarro's full service in-line operation.
 - 2. Specific tasks for this renovation include but are not limited to the following:
 - a. Remove existing service equipment not to be used for new construction. Salvage equipment to be turned over to Owner representative.
 - b. Selective demolition within the construction zone as outlined herein (no Work to existing concrete building structures or envelope required except unless noted otherwise in drawing for any E/P systems upgrades)
 - c. Selective demolition of interior finishes and E/P systems.
 - d. New partial wall construction to be gypsum board on metal stud walls
 - e. Construction of new casework for in-line food service.
 - f. New finishes include but not limited to wood wall accents/casework, porcelain tile, painted gypsum boards walls and ceilings, and new acoustical panel ceiling as applicable per construction.
 - g. Partial update to electrical system
 - h. Construction of new electrical panel
 - i. Partial update to plumbing systems in order to tie in new service equipment
 - j. Equipment and signage to be furnished to offeror by Owner.
 - k. Menu boards to be furnished by Owner and installed by offeror.
 - l. Coordination of install of signage provided by Owner.
 - m. Replace any damaged finishes as a result of construction activities including ceiling grid, painted surfaces, floor finishes and wall base, or any other damage to premises caused by contractor and subcontractors.

5.0 BID DOCUMENTS

- a) References Form
- b) Subcontractors Form
- c) Materials
- d) Bid Bond Form
- e) Form of Proposal / Bid Form

5.1 REFERENCES

Bidder Qualifications: The bidder is required to submit a list of completed projects where he has performed similar work to that specified herein.

Organization: _____

Contact Name: _____

Phone Number: _____

Date Work Completed: _____ **Value of Contract:** _____

Project Manager assigned to this project: _____

Brief Project Description: _____

Organization: _____

Contact Name: _____

Phone Number: _____

Date Work Completed: _____ **Value of Contract:** _____

Project Manager assigned to this project: _____

Brief Project Description: _____

Organization: _____

Contact Name: _____

Phone Number: _____

Date Work Completed: _____ **Value of Contract:** _____

Project Manager assigned to this project: _____

Brief Project Description: _____

5.2 SUBCONTRACTORS (IF APPLICABLE)

SUBCONTRACTORS: The following is a list of subcontractors proposed by the bidder to be used to complete the project. All subcontractors are subject to approval by Northern Kentucky University. Failure to submit this list completely filled out may invalidate bid. **SUBCONTRACTORS MAY NOT BE CHANGED AFTER CONTRACT AWARD WITHOUT APPROVAL BY NKU.**

BRANCH OF WORK

NAME, ADDRESS AND TELEPHONE OF SUBCONTRACTORS

Interior Architectural Woodwork	
Metal Studs/ Drywall	
Porcelain/Ceramic Tiling	
Interior Painting	
Plumbing	
Electric	
Data and Voice Cabling	

**5.3 List of Materials and Equipment
(Must be submitted within 24 hours after bid opening)**

Every item listed under the different phases of this project must be clearly identified so that Northern Kentucky University will definitely know what the bidder proposes to furnish. Bidders be hereby advised that this list shall be required to be filled out completely by the apparent low bidder within twenty-four (24) hours from the close of the official reading of the bids.

The above requirement does not preclude any bidder from submitting this list, fully executed, at the time the bids are submitted.

The use of the manufacturers' dealer's name only, or stating "as per plans and specifications", will not be considered as sufficient identification. Where more than one "Make or Brand" is listed for any one item, the Owner has the right to select the one to be used.

Failure to submit a proper list may result in rejection of the Bidder's Proposal.

Porcelain Tiling	
Wood Wall Accents/ Casework	
Plumbing Fixtures	
Electric Panels/Gear	
Data Cabling	

5.3 List of Unite Prices

List of Unit Prices. Unit prices shall include the furnishing of all labor, materials, suppliers, services, and shall include all items of cost, overhead and profit for the Trade Contractor and any Subcontractor involved, and shall be used uniformly without modification for either additions or deductions. The Unit Price as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes or extra work performed under the Contract. Failure to completely fill out the unit prices requested will result in Bid rejection.

ITEM DESCRIPTION	UNIT	UNIT PRICE
ARCHITECTURAL		
1. Paint	S.F.	\$ _____
2. Porcelain Tile	S.F.	\$ _____
3. Terrazzo Tile	S.F.	\$ _____
4. Wood Wall Paneling	S.F.	\$ _____
ELECTRICAL		
1. Provide duplex receptacle and circuit with all necessary conduit, outlet box, junction boxes, receptacles, and 100' of 3 conductor, 10 AWG wire, circuit breaker and labor.	EA	\$ _____
2. Provide type "PS16" and "PS19" light fixture installed and circuited with all necessary conduit, outlet box, junction boxes, receptacles, and 100' of 3 conductor, AWG wire, circuit breaker and labor.	EA	\$ _____

5.4

Bid Bond
5% of Contract Price

KNOW ALL MEN BY THESE PRESENTS, that we (here insert full name and address or legal title of Contractor) as Principal, hereinafter called the Principal, and (here insert full name and address or legal title of Surety) a corporation duly organized under the laws of the State of Kentucky as Surety, hereinafter called Surety, are held and firmly bound unto **Northern Kentucky University** as Obligee, hereinafter called Obligee, in the sum of :

_____ Dollars (\$_____),

representing 5% of the Principal's total bid price and for the payment of which sum well and truly to be made, the said Principal and the said Surety, bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has submitted a bid for _____ (Here insert full name, address and description of project) NOW THEREFORE, if the Obligee shall accept the bid of the Principal within the period specified, or if no period is specified, within 45 days after its opening, and the Principal shall enter into a Contract with the Obligee in accordance with the terms of such bid, and give such bid or bonds as may be specified in the bidding or Contract Documents with good and sufficient surety for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof, or in the event of the failure of the Principal to enter such Contract and give such bonds or bonds, if the Principal shall pay to the Obligee the difference not to exceed the penalty hereof between the amount specified in said bid and such larger amount for which the Obligee may in good faith contract with another party to perform the Work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect.

Signed and sealed this day of _____ 2019		
(Principal)	(Seal)	(Witness)
_____ (Title)		
(Surety)	(Seal)	(Witness)
_____ (Title)		

THIS DOCUMENT MUST BE NOTORIZED
This is only an example. Other forms may be used.

5.4 FORM OF PROPOSAL

LUMP SUM BASE BID

The Bidder agrees to furnish all labor, materials, supplies, supervision and services required to perform this contract in a workmanlike manner. These services to be provided in accordance with Specifications and Contract Documents, and any duly issued Addenda for the **LUMP SUM BASE BID** set forth below:

_____ Dollar _____ Cents
 (USE WORDS) (USE WORDS)

\$ _____
 (USE NUMBERS)

This offer is for, at minimum, _____ calendar days from the date this offer is opened. In submitting the above it is expressly agreed that upon proper acceptance by Northern Kentucky University of any or all items offered, a contract shall thereby be created with respect to the items accepted.

THIS BID SUBMITTED BY:

 (Name and Address of Bidder)

DATE: _____ AUTHORIZED SIGNATURE: _____

NOTE: *The Authentication of Bid and Statement of Non-Collusion and Non-Conflict of Interest must be properly executed for this Bid to be valid.*

This Bidder, in compliance with this Request for Bid, and having carefully examined the complete contract documents, as well as the specifications for the work as prepared by Northern Kentucky University, hereby proposes to furnish all labor, supervision, materials, supplies and services required to perform the specifics of the Contract Documents, within the time set forth herein and for the final negotiated price.

The Bidder, hereby acknowledges receipt of the following Addenda:

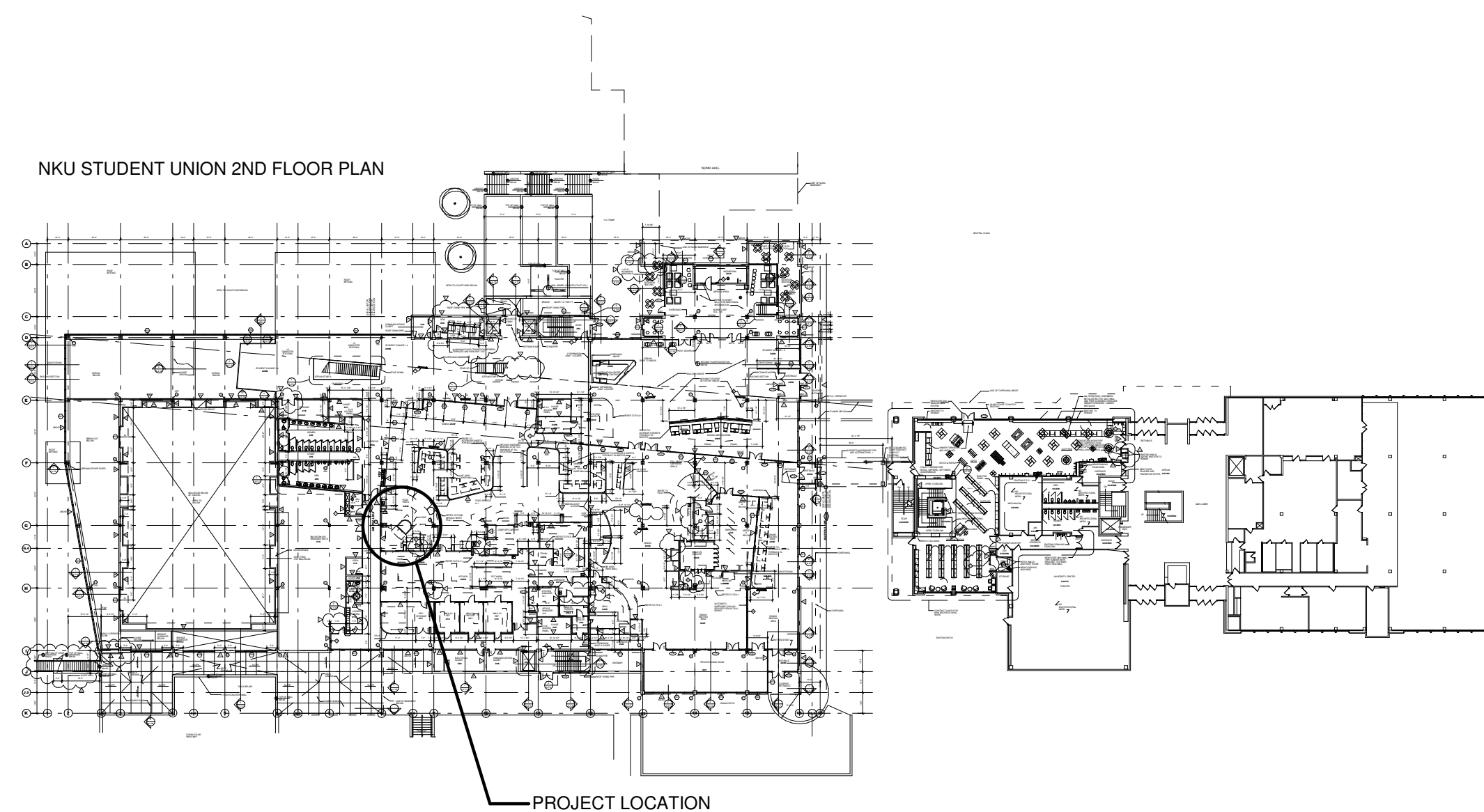
ADDENDUM NO. _____ DATED _____ ADDENDUM NO. _____ DATE _____



NORTHERN KENTUCKY UNIVERSITY

STUDENT UNION RENOVATION - SBARRO PIZZA

NKU BID NUMBER: NKCC-01-20



CONTRACT DOCUMENTS SEPTEMBER 2019

Architect:
nectō | architecture, PSC
310 Old Vine Street, Suite 100A
Lexington, Kentucky 40507
859-338-4835

Engineer:
KLH Engineers
1538 Alexandria Pike, Suite 11
Ft. Thomas, Kentucky 41075
859-442-8050

DRAWING LIST

- G1.0 - COVERSHEET
- G1.1 - GENERAL NOTES
- ARCHITECTURE
 - A1.0 - DEMOLITION AND NEW WORK PLANS
 - A1.1 - DETAILS
- ELECTRICAL
 - E-001 - ELECTRICAL COVERSHEET
 - E-701 - ELECTRIC SPECIFICATIONS
 - E-702 - ELECTRIC SPECIFICATIONS
 - EL100 - ELECTRIC LIGHTING - SECOND FLOOR
 - EP100 - ELECTRIC POWER - SECOND FLOOR
 - EP601 - ELECTRIC POWER - SINGLE LINE DIAGRAM
 - EP602 - ELECTRIC POWER - PANEL SCHEDULES
- PLUMBING
 - P-100 - PLUMBING - SECOND FLOOR PLAN
 - P-101 - PLUMBING - SPECIFICATIONS

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REVISIONS:

No.	Description	Date

CONSULTANTS:



ARCHITECT:



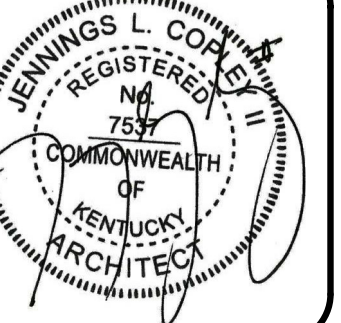
CLIENT:



PROJECT NAME:

NORTHERN KENTUCKY UNIVERSITY STUDENT UNION RENOVATION - SBARRO PIZZA

STAMP:



SHEET TITLE:

COVER SHEET

GENERAL

PROJECT NO.: 2019-003

DRAWN BY: JC

CHECKED BY: JC

SCALE:

DATE: SEPTEMBER 2019

SHEET NUMBER:

G1.0

CONTRACT DOCUMENTS

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ARCHITECTURAL ABBREVIATIONS

PL	property line	DEG.	degree	H.B.	hose bib	(N)	new	SHTG.	sheathing
&	and	DBL	double	HC.	handcapped	N	north	SIM.	similar (to)
CL	center line	D.F.	drinking fountain	HDR.	header	N.I.C.	not in contact	S.M.	sheet metal
Ø	diameter	DIAG.	diagonal	HDWR.	hardware	N.O.	number	S.M.S.	sheet metal screw(s)
@	pound or number at	DIA.	diameter	H.R.	hand rail	NOM.	nominal	S.O.G.	slab on grade
L	angle	DIM.	dimension	H.I.P.	high impact plastic	N.T.S.	not to scale	S.D.	smoke detector
A.B.	anchor bolt	DN.	down	H.M.	hollow metal	OBS.	obscure	SPEC.	specification(s)
A.C.	asphalt concrete	D.S.	downspout	HORIZ.	horizontal	O.C.	on center(s)	S.S.	stainless steel
ACC.	accessory	DTL.	detail	H.P.	high point	OCC.	occupancy	S.T.C.	sound transmission coef.
ADD.	additive alternate	DWGS.	drawing(s)	HR.	hour	O.D.	outside diameter	STD.	standard
ADD'L	additional	DWR.	drawer	HRWD.	hardwood	O.F.D.	overflow drain	STL.	steel
ADJ.	adjustable / adjacent	E	east	HT.	height	O.F.O.I.	owner furn., owner installed	STRUCT.	structure(al)
ADH.	adhear(ed)	E.A.	each	H.V.A.C.	heating/ventilating/air cond.	O.F.C.I	owner furn., cont. installed	SUSP.	suspended or suspension
A.F.F.	above finish floor	E.F.	each face	H.W.H.	hot water heater	OH.	overhead	S.A.T.	suspended acoustical tile
ALUM.	aluminum	E.S.	expansion joint	I.D.	inside diameter	OPG.	opening	SYM.	symmetry(ical)
ALT.	alternate	EL.	elevation	I.G.	insulated glass	OPP.	opposite	SYS.	system
ANO.	anodized	ELEC.	electric(al)	IN.	inch	PK.	parking	T	tread
APPROX.	approximate	EQ.	equal	INCL.	include(d), (ing)	PL.	plate	T&B	top and bottom
ARCH.	architectural	EQUIP.	equipment	INFO.	information	P.L.	plastic laminate	T.G.	tempered glass
ATT.	attenuation	E.S.	each side	INSUL.	insulate(d), (ing), (ion)	PLUMB.	plumbing	T&G	tongue and groove
BD.	board	EXP.	expansion	INT.	interior	PNL.	panel	TEL.	telephone
BLDG.	building	EXT.	exterior	INV.	invert	PTD.	painted	TEMP.	temporary
BLK.	block	JAN.	janitor	JAN.	janitor	PR.	pair	THK.	thick(ness)
BLKG.	blocking	JST.	joist	JST.	joist	PREP.	preparation	T.O.P.	top of parapet
B.M.	bench mark	JT.	joint	JT.	joint	PROP.	property	T.O.S.	top of structure
BM.	beam	LB.	load bearing	LB.	load bearing	PT.	point	T.O.C.	top of concrete or curb
BOT.	bottom	LAB.	laboratory	LAB.	laboratory	P.F.E.	portable fire extinguisher	T.O.W.	top of wall
B.O.S.	bottom of structure	LAM.	laminated	LAM.	laminated	PTN.	partition	TYP.	typical
B.S.	both sides	LAV.	lavatory	LAV.	lavatory	PLY.WD.	plywood	UG.	underground
BTWN.	between	L.	left	L.	left	R	riser	UR.	unless noted otherwise
B.U.	built-up	FIX.	fixture	L.F.	linear foot	RECOM.	recommend(ed)	UR.	urinal
CAB.	cabinet	FLR.	floor(ing)	LOC.	location	R.A.	return air	VERT.	vertical
CARP.	carpet	F.O.C.	face of concrete	L.P.	low point	RAD.	radius	V.I.F.	verify in field
C.I.P.	cast in place	F.O.F.	face of finish	LT.	light	R.C.P.	reflected ceiling plan	WC.T.	west composition tile
C.B.	catch basin	F.O.M.	face of masonry	MANUF.	manufacture(r)	RT.	right	W.C.T.	with composition tile
CLKG.	caulking	F.O.S.	face of stud (or structure)	M.H.	man hole	R.D.	root drain	W.	with
C.F.	cubic foot	F.R.P.	fiberglass reinforced panel	M.H.	man hole	RDWD.	redwood	W.A.	wedge anchors
C.Y.	cubic yard	F.S.	finished slab	MAT.	material(s)	REF.	reference, refer	W/O	without
C.J.	construction joint	FT.	feet or foot	MAX.	maximum	REF.	reference, refer	W.C.	water closet
C.L.F.	chain link fence	FTG.	footing	M.B.	machine bolt	REF.	reference, refer	WD.	wood
CLG.	ceiling	GA.	gage or gauge	M.C.	machine cabinet	REF.	reference, refer	W.H.	water heater
CLR.	clear(ance)	G.C.	general contractor	MECH.	mechanic(al)	RES.	resilient	W.I.	wrought iron
C.M.U.	concrete masonry unit	G.C.	general contractor	MED.	medium	REF.	reference, refer	W.M.	wire mesh
COL.	column	GALV.	galvanized	MET.	metal	REF.	reference, refer	W.P.	water proofing
CONC.	concrete	G.F.I.	ground fault interrupter	MEMB.	membrane	REF.	reference, refer	W.P.T.	working point
CONN.	connection	G.I.	galvanized iron	MISC.	miscellaneous	REQ.	required	WSCT.	wainscot
CONSTR.	construction	GL.	glass or glazing	MIR.	mirror	RES.	resilient	WT.	weight
CONT.	continuous or continue	GRID	grid line	MIR.	mirror	REF.	reference, refer	YD.	yard
CONTR.	contractor	G.L.B.	glue laminated beam	MTD.	mounted	REF.	reference, refer		
COORD.	coordinate / coordination	G.V.P. BD.	gypsum board	M.O.	masonry opening	REF.	reference, refer		
C.T.	ceramic tile	GYP. RD.	gypsum rail	MTL.	metal	REF.	reference, refer		
CTSK.	countersink			MUL.	mullion	REF.	reference, refer		

GENERAL NOTES

- CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CURRENT AND APPLICABLE CODES.
- DIMENSIONS ARE NOT ADJUSTABLE WITHOUT APPROVAL.
- "TYPICAL" MEANS IDENTICAL FOR ALL COMPARABLE CONDITIONS UNLESS NOTED OTHERWISE. DETAILS NOTED AS TYPICAL ON ARCHITECTURAL SHEETS SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE.
- "SIMILAR" MEANS SIMILAR CHARACTERISTICS FOR AN ITEM NOTED. VERIFY DIMENSIONS AND ORIENTATION ON PLAN. WHERE NO SPECIFIC DETAIL IS SHOWN, THE FRAMING OR CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION IN THE PROJECT.
- DIMENSIONS NOTED "CLEAR" OR "CLR." ARE MINIMUM REQUIRED DIMENSIONS FOR CLEARANCE AND MUST BE ACCURATELY MAINTAINED. CLEAR DIMENSIONS ARE TO FACE OF FINISH UNLESS NOTED OTHERWISE.
- WRITTEN DIMENSIONS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND OWNER REPRESENTATIVE MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING.
- CONTRACTOR TO COORDINATE AND VERIFY ALL DIMENSIONS WITHIN THIS SET OF DOCUMENTS PRIOR TO LAYOUT. ARCHITECT TO BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING.
- ALL DETAILS ARE REFERRED BACK TO THE PRIMARY DRAWING FROM WHICH THEY ORIGINATE.
- WHERE REQUIRED, SHOP DRAWINGS MUST BE SUBMITTED FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.
- ALL WORK SHALL BE DONE IN A MANNER WHICH PROTECTS ADJOINING SPACES.
- CONSTRUCTION NOTED AS "EXISTING" IS TO REMAIN, UNLESS NOTED OTHERWISE. PROTECT AS REQUIRED. "EXISTING" CONSTRUCTION REMOVED BY CONTRACTOR FOR ANY REASON IS TO BE REPLACED TO MATCH EXISTING AT NO ADDITIONAL COST TO THE OWNER.
- ALL WORK SHALL BE DONE SAFELY AND IN A MANNER APPROPRIATE TO THE ANTICIPATED CONSTRUCTION.
- CHANGES TO APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A CHANGE ORDER APPROVED BY THE ARCHITECT.
- CONTRACTOR SHALL REVIEW THE DRAWINGS FOR COORDINATION AMONG TRADES AND CONSISTENCY BETWEEN DISCIPLINES AND OBTAIN WRITTEN CLARIFICATION FROM THE ARCHITECT PRIOR TO THE PERFORMANCE OF THE WORK WHEN INFORMATION FROM ONE DISCIPLINE CONFLICTS WITH THE INFORMATION FROM ANOTHER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE COMPLETE SETS OF DOCUMENTS TO EACH TRADE WHERE AS INFORMATION AFFECTING THE WORK OF ONE TRADE MAY BE LOCATED ON DRAWINGS OTHER THAN THOSE DEALING SPECIFICALLY WITH THE WORK OF A GIVEN TRADE.
- CONTRACTOR SHALL REVIEW THE DRAWINGS FOR CONSISTENCY WITH OBSERVED FIELD AND / OR EXISTING BUILDING CONDITIONS AND REPORT AND DISCREPANCIES TO THE ARCHITECT IN WRITING PRIOR TO COMMENCING THE WORK. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND ACCOUNT FOR OBSERVABLE EXISTING CONDITIONS AS THEY MAY AFFECT THEIR WORK.
- CONTRACTOR SHALL CONSULT WITH THE OWNER'S REPRESENTATIVE TO COORDINATE ACCESS, WORKING HOURS AND OTHER OPERATIONAL ISSUES. CONTRACTOR SHALL BECOME FAMILIAR WITH SCOPE OF WORK TO BE PROVIDED BY THE OWNER AND INCLUDE SUCH WORK AS PART OF THE OVERALL PROJECT SCHEDULE TO INSURE ORDERLY SEQUENCING.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES, INCLUDING BUT NOT LIMITED TO INSTALLATION OF TEMPORARY BARRICADES, DOORS, SIGNAGE, SECURITY LIGHTING.
- CONTRACTOR SHALL CONTACT ALL PUBLIC AND PRIVATE UTILITY COMPANIES THAT ARE TO PROVIDE SERVICE TO THE PROJECT, INCLUDING, BUT NOT LIMITED TO ELECTRICITY. UNLESS NOTED OTHERWISE IN DOCUMENTS CONTRACTOR SHALL PAY FOR ALL UTILITY CONNECTION FEES AS REQUIRED. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITY HOOK-UP WITH THE APPROPRIATE AGENCIES.
- ALL PRODUCTS TO BE USED ON THE PROJECT SHALL BE SUBMITTED (AS A SHOP DRAWING) TO ARCHITECT FOR APPROVAL BY THE ARCHITECT/OWNER PRIOR TO INSTALLATION. ANY NON-CONFORMING PRODUCTS INSTALLED WITHOUT PRIOR APPROVAL SHALL BE REMOVED AS REQUESTED BY THE ARCHITECT/OWNER AND REPLACED WITH CONFORMING PRODUCTS AT THE CONTRACTORS SOLE EXPENSE.

DEMOLITION NOTES:

- DURING DEMOLITION, ALL MATERIAL SHALL BE HANDLED WITHIN THE BUILDING AREA OR WITHIN THE AN AREA BOUNDED BY A BARRICADE.
- DURING DEMOLITION, ALL DEBRIS SHALL BE SUFFICIENTLY WET AT THE TIME OF HANDLING TO PREVENT DUST FROM ARISING.
- CONTRACT TO DETERMINE EXTENT OF DEMOLITION NECESSARY FOR WORK TO PERFORMED PRIOR TO BID UNLESS NOTED OTHERWISE.
- THE DOCUMENTS HAVE BEEN PREPARED FROM AVAILABLE RECORD DRAWINGS AND SITE OBSERVATIONS. ALTHOUGH EVERY EFFORT HAS BEEN MADE TO VERIFY EXISTING CONDITIONS, DISCREPANCIES BETWEEN THE DOCUMENTS AND ACTUAL FIELD CONDITIONS MAY EXIST. THE CONTRACTOR SHALL INSPECT ALL SITE CONDITIONS AS PART OF THE BIDDING PROCESS AND NOTIFY THE ARCHITECT IN WRITING WHEREVER DISCREPANCIES ARE OBSERVED WHICH MIGHT AFFECT THE IMPLEMENTATION OF THE WORK.
- THE CONTRACTOR SHALL INVESTIGATE THE SCOPE OF DEMOLITION REQUIRED AND IDENTIFY ANY CONDITIONS WHERE THE WORK AS INDICATED IN THE CONTRACT DOCUMENTS CANNOT BE PERFORMED DUE TO EXISTING FIELD CONDITIONS.
- THE TERMS 'REMOVE' AND 'DEMOLISH' AS USED IN THE DOCUMENTS ARE EQUAL IN MEANING AND UNLESS NOTED OTHERWISE INDICATE COMPLETE DEMOLITION AND REMOVAL OF THE ITEM IDENTIFIED. THE TERM 'DEMOLITION ACTIVITIES' OR 'DEMOLITION OPERATION' SHALL MEAN BOTH THE DEMOLITION AND RELATED RECONSTRUCTION WORK AS MAY BE APPLICABLE.
- DEMOLITION OF EXISTING CONSTRUCTION SHALL BE LIMITED TO THE ITEMS INDICATED TO BE DEMOLISHED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING IMPROVEMENTS TO REMAIN WHICH COULD POTENTIALLY BE DAMAGED AS A RESULT OF DEMOLITION ACTIVITIES. PROTECTION MEASURES SHALL BE AT THE CONTRACTORS DISCRETION SUBJECT TO OWNERS APPROVAL. CONTRACTOR SHALL REPLACE OR REPAIR ANY DAMAGES AT NO COST TO THE OWNER.
- CONTRACTOR SHALL COORDINATE DEMOLITION OPERATIONS IN SUCH A MANNER AS TO MINIMIZE HARDSHIP TO TENANTS, USERS AND OTHER TRADES. AS PART OF THE BIDDING PROCESS, THE CONTRACTOR SHALL BECOME AWARE OF ANY POTENTIAL LIMITATIONS IN SCHEDULING, ACCESS AND SEQUENCE OF WORK VIA CONSULTATION WITH THE OWNER'S REPRESENTATIVE AND THE ARCHITECT AS REQUIRED.
- DISPOSAL OF ALL DEBRIS SHALL BE CONDUCTED IN A LAWFUL MANNER AND IN ACCORDANCE WITH LOCAL, STATE FEDERAL REGULATIONS.
- PORTABLE FIRE EXTINGUISHERS WITH A RATING NOT LESS THAN 2-A OR 2-A 10 ABC SHALL BE PROVIDED AND LOCATED WITHIN A 75 FOOT TRAVEL DISTANCE TO ALL PORTIONS OF THE BUILDING. PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 20 ABC SHALL BE PROVIDED. PROVIDE ADDITIONAL FIRE EXTINGUISHERS AS REQUIRED BY STATE FIRE MARSHAL REPRESENTATIVE.

RESPONSIBILITY:

- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTING THE BUILDING ELEMENTS, AND ANY ANCILLARY STRUCTURAL ELEMENTS IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. BEFORE COMMENCING WITH CONSTRUCTION AND FABRICATION DRAWINGS, THE CONTRACTOR SHALL VERIFY GOVERNING DIMENSIONS, ELEVATIONS, EXISTING CONDITIONS AND CONSTRUCTABILITY OF THE CONSTRUCTION AS DEFINED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S RESPONSIBILITIES INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:
 - THE SAFETY OF THE CONSTRUCTION SITE AND CONSTRUCTION PERSONNEL.
 - THE PROTECTION, PROPER HANDLING AND INSTALLATION OF CONSTRUCTION MATERIALS.
 - THE SEQUENCE OF CONSTRUCTION (UNLESS SPECIFICALLY SPECIFIED OTHERWISE).
 - THE MEANS, METHODS AND PROCEDURES EMPLOYED IN IMPLEMENTING THE REQUIRED CONSTRUCTION (UNLESS SPECIFICALLY SPECIFIED OTHERWISE).
 - THE STRUCTURAL DESIGN OF ALL ITEMS USED IN THE CONSTRUCTION WHICH MAY OR MAY NOT BE A PERMANENT PART THEREOF.
 - THE SCHEDULING OF CONSTRUCTION ACTIVITIES (UNLESS SPECIFICALLY SPECIFIED OTHERWISE).

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REVISIONS:

No.	Description	Date

CONSULTANTS:

KLH ENGINEERS

ARCHITECT:

necto | architecture
310 Old Vine Street
Lexington, KY 40507
607.258.4635

CLIENT:

NKU
NORTHERN KENTUCKY UNIVERSITY

PROJECT NAME:

NORTHERN KENTUCKY UNIVERSITY STUDENT UNION RENOVATION - SBARRO PIZZA

MATERIAL LEGEND

	EARTH
	SAND / MORTAR / PLASTER
	CONCRETE
	CONCRETE BLOCK
	BRICK / EXISTING CONSTRUCTION
	PLYWOOD
	STEEL
	ALUMINUM
	GLASS
	FINISH GRADE WOOD
	CONTINUOUS ROUGH WOOD
	WOOD BLOCKING
	RIGID INSULATION
	BATT INSULATION / FIRE BLOCKING / SOUND ATTENUATION

SHEET SYMBOLS KEY

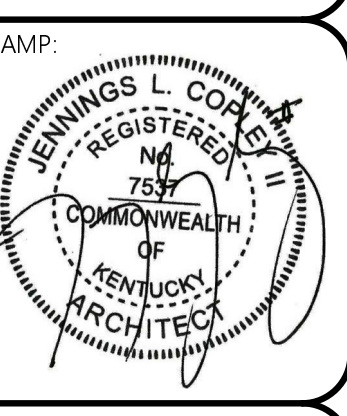
	PROJECT GRID LINE
	DOOR IDENTIFICATION NUMBER
	DEMOLITION TAG
	WALL TYPE TAG
	KEY NOTE TAG
	FIXTURE / APPLIANCE TAG
	KEYNOTE TAG
	CSI SPECIFICATION NUMBER
	ROOM TAG
	BUILDING SECTION REFERENCE
	DETAIL REFERENCE
	ENLARGED DETAIL REFERENCE
	ELEVATION REFERENCE

PROJECT DESCRIPTION:

This project consists of limited demolition of existing equipment and installation of new equipment and finishes for the purposes of renovating an existing tenant space for a new tenant.

APPLICABLE CODES:

BUILDING INTERNATIONAL BUILDING CODE (IBC) 2015
KENTUCKY BUILDING CODE (KBC) 2018

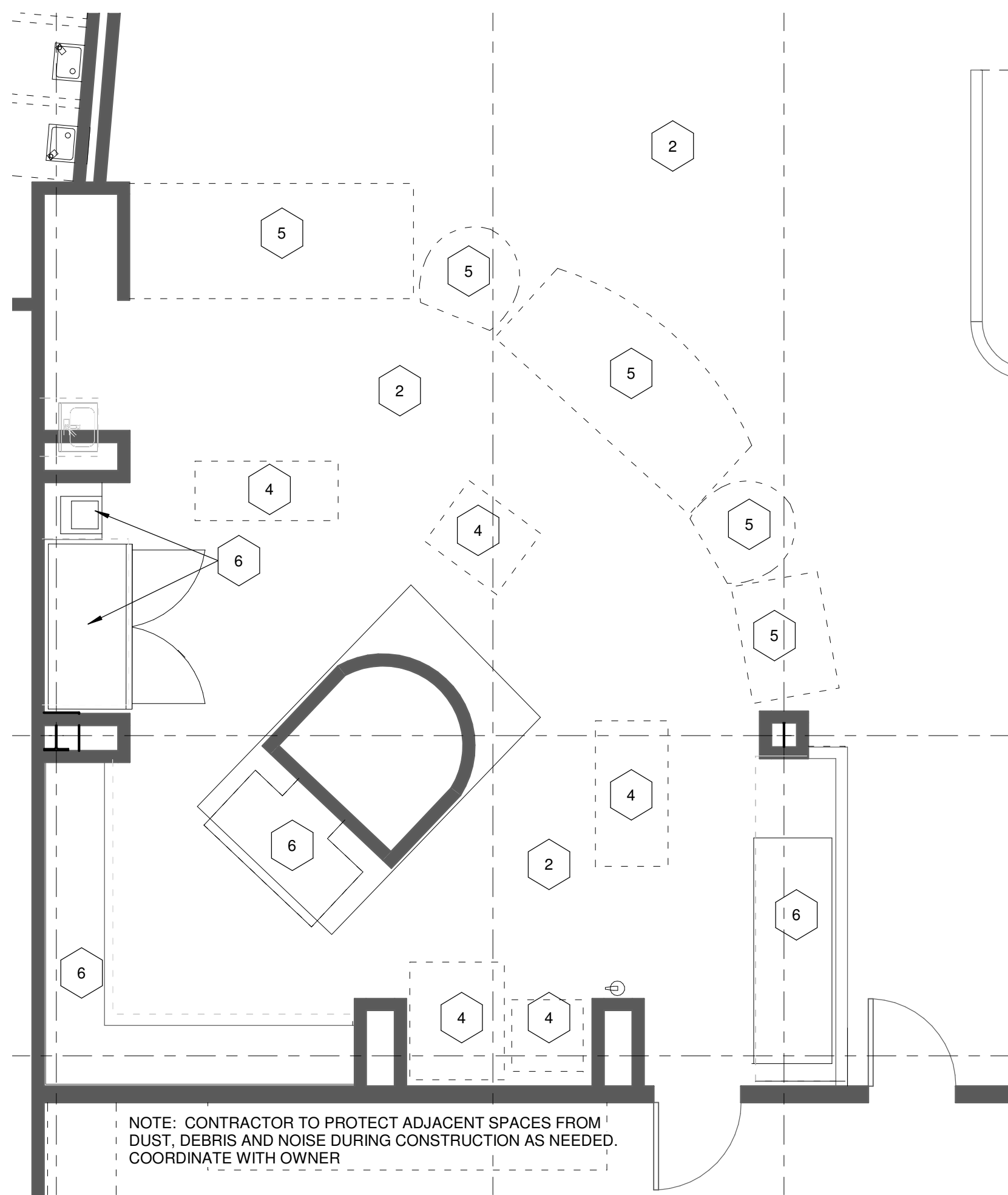


SHEET TITLE:
GENERAL NOTES

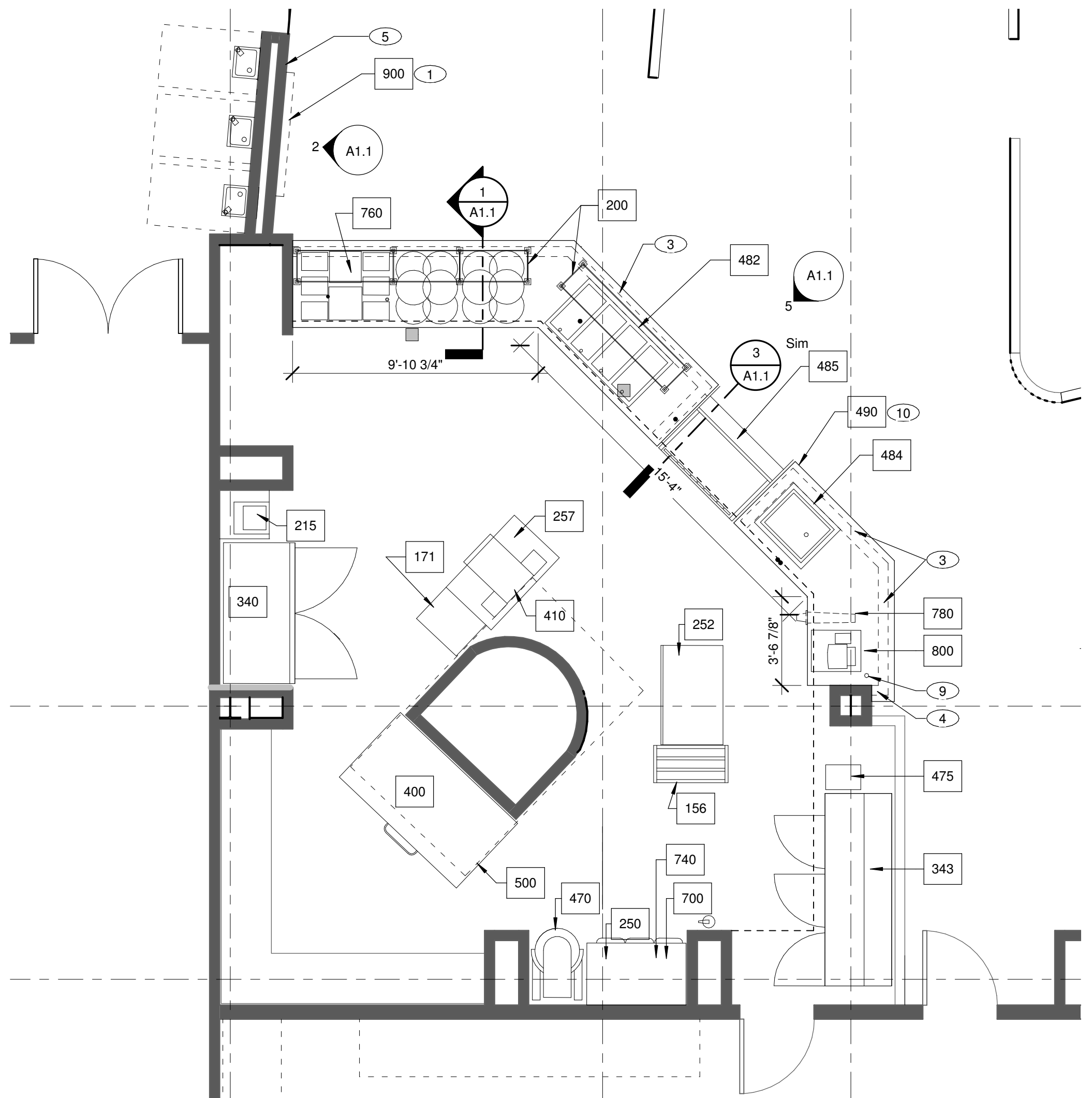
GENERAL

PROJECT NO.: 2019-003
DRAWN BY: JC
CHECKED BY: JC
SCALE:
DATE: SEPTEMBER 2019
SHEET NUMBER:

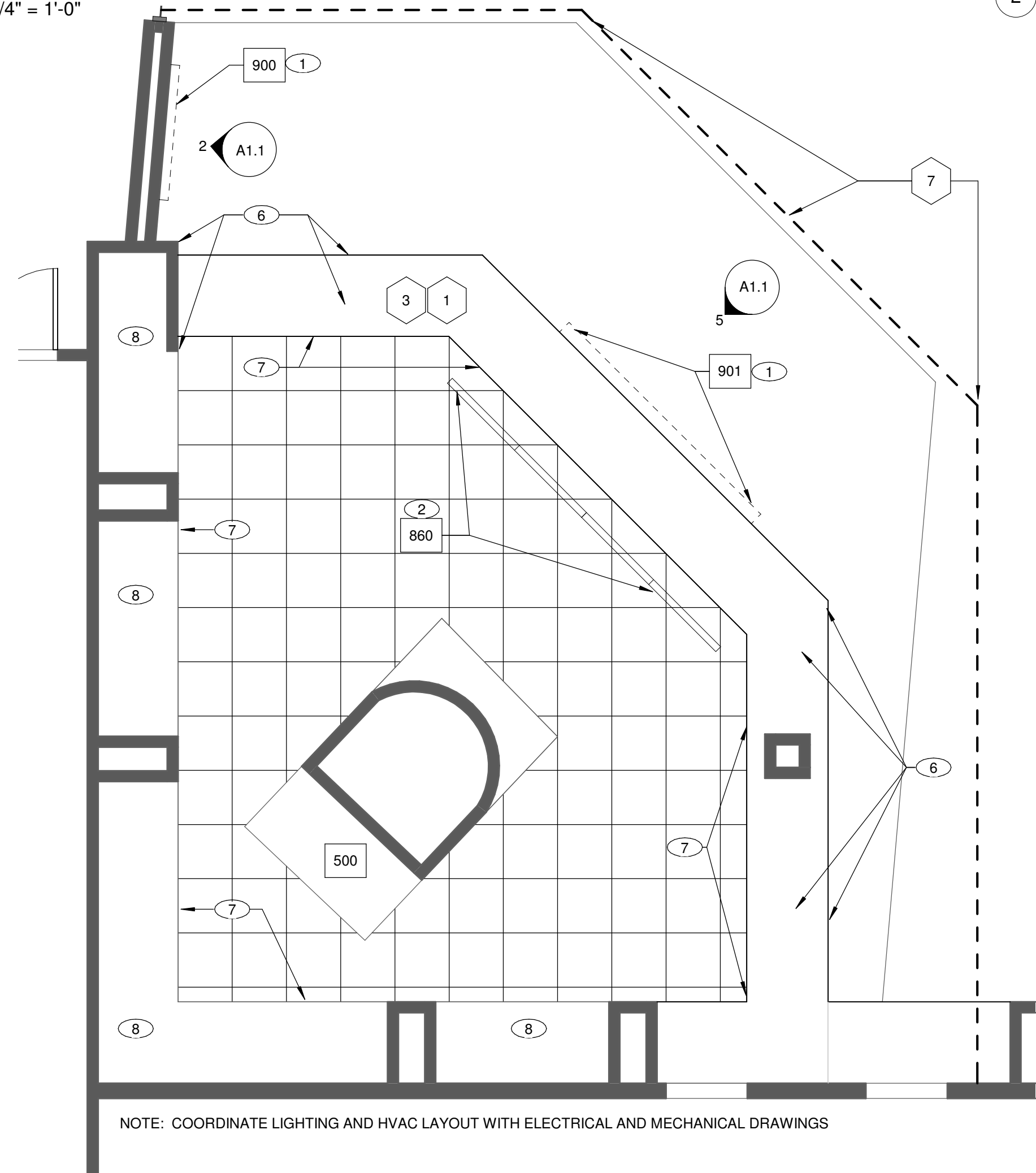
G1.1



DEMOLITION FLOOR PLAN
1/4" = 1'-0"



NEW WORK FLOOR PLAN
1/4" = 1'-0"



REFLECTED CEILING FLOOR PLAN
1/4" = 1'-0"

ITEM NO	QTY	EQUIPMENT CATEGORY	MANUFACTURER	MODEL NO
156	1	DUNNAGE RACK	NEW AGE INDUSTRIAL	2020
171	1	MOBILE WORK TOP PAN RACK	NEW AGE INDUSTRIAL	1313
200	1	SNEEZE GUARD W/ LED	BY OTHERS	BY OTHERS
215	1	HAND SINK	EXISTING	EXISTING
250	1	PREP TABLE	ADVANCE/TABCO	TKMS-304, NO BOTTOM SHELF
252	1	PREP TABLE	ADVANCE/TABCO	TKMS-304
257	1	48"x30" STAINLESS STEEL TABLE	ADVANCE/TABCO	CUSTOM S/S FABRICATION SPECIAL HEIGHT
340	1	2 DOOR REACH IN REFRIGERATION	EXISTING	EXISTING
343	1	REFRIGERATED PIZZA PREP	EXISTING	EXISTING
400	1	DECK PIZZA OVEN	EXISTING	EXISTING
410	1	CONVEYOR OVEN	TURBOCHEF	HCS-1618 STD-36 W/ (2) HCT-4099
470	1	DOUGH MIXER	PRECISION MIXERS	HD60.3
475	1	CHEESE HOG	PALAZZOLO	GS-1 AUTOMATIC MACHINE
482	1	HOT WELL, (4) 4/3 PAN	WELLS BLOOMFIELD	MOD-427TDMAF
484	1	DROP-IN COLD FOOD WELL	WELLS	ICP-200
485	1	REFRIGERATED DISPLAY CASE	FEDERAL INDUSTRIES	CGR5048CD
490	1	CUSTOM COUNTER	CUSTOM	CUSTOM
500	1	EXHAUST HOOD	EXISTING	EXISTING
700	1	PIZZA SCALE	EDLUND	EPZ-10
740	3	FLOUR BIN	WINHOLT	148 PIB
760	1	PIZZA DISPLAY PACKAGE	BY OTHERS	BY OTHERS
780	2	IN-COUNTER CUP DISPENSER	SAN JAMAR	C2410C
800	1	P.O.S TERMINAL	ALOHA	
860	1	MENU BOARDS	DIGITAL (4- 48" MONITORS)	
900	1	SIGNAGE	RUGGLES SIGNS	6'-0" ROUND SBARRO SIGN TO ILLUMINATED SOFFIT MOUNTED SIGN-SIZE TBD, ILLUMINATED
901	1	SIGNAGE	RUGGLES SIGNS	

NOTE: SCHEDULE SHOWN FOR REFERENCE ONLY. COORDINATE WITH OWNER SUPPLIED EQUIPMENT AND ELECTRICAL/PLUMBING DRAWINGS

EQUIPMENT SCHEDULE
1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES:

- REFER TO SHEET A1.1 FOR PRODUCT SPECIFICATIONS FOR PROJECT MATERIALS.
- REFER TO THE REFLECTED CEILING PLAN FOR THE EXTENT OF THE CEILING WORK.
- CONTRACTOR/OWNER SHALL COORDINATE THE REVIEW OF THESE DOCUMENTS WITH ALL OF THE REQUIRED ENTITIES TO ENSURE NECESSARY BUILDING PERMITS FOR CONSTRUCTION.
- REFER TO ELECTRICAL DRAWINGS FOR NEW POWER LOCATIONS. CONTRACTOR TO COORDINATE ANY AND ALL DISTURBANCE IN ELECTRIC POWER WITH THE OWNER.
- CONTRACTOR RESPONSIBLE TO COORDINATE ALL WORK ASSOCIATED WITH DEMOLITION, REMOVAL, DISCONNECTION, RECONNECTION OR REVISIONS TO ALL ELECTRIC POWER, HVAC, NETWORK, COMMUNICATIONS, DATA, I.T., TV AND FIRE ALARM SYSTEMS.
- CONTRACTOR TO REMOVE ANY SALVAGE FROM THE BUILDING PRIOR TO DEMOLITION ACTIVITIES. OWNER TO VERIFY SALVAGE IS COMPLETE PRIOR TO START OF DEMOLITION WORK.
- ALL DIMENSIONS ARE TO THE FINISH FACE OF THE WALLS. FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY DEVIATIONS FROM WHAT IS INDICATED ON THE DRAWINGS TO THE OWNER/ARCHITECT PRIOR TO CONSTRUCTION.
- CAFE TO BE TAKEN DURING DEMOLITION TO NOT DAMAGE AND SURFACES TO REMAIN. CONTRACTOR SHALL PATCH AND REPAIR ANY AREAS TO REMAIN AFFECTED BY DEMOLITION TO MATCH ADJACENT FINISH SURFACES.
- PAINT ALL WALL SURFACES NOT INDICATED. OWNER TO SELECT COLOR. PROVIDE TWO ADDITIONAL PAINT COLORS FOR ALL WALLS VISIBLE WITHIN PROJECT AREA NOT INDICATED TO BE PAINTED.

DEMOLITION KEY NOTES:

- REFER TO ELECTRICAL DRAWINGS FOR ITEMS TO BE REMOVED DURING DEMOLITION. ANY WALLS OR CEILING AFFECTED BY DEMOLITION SHALL BE REPAIRED TO LIKE NEW CONDITION.
- EXISTING TILE FLOORING TO REMAIN.
- REFER TO ELECTRICAL DRAWINGS FOR PENDANT LIGHTS TO BE REMOVED. SOFFIT TO BE PATCHED TO MATCH ADJACENT SURFACES. SALVAGE EXISTING LIGHTS TO BE REMOVED, TURN OVER TO THE OWNER.
- REMOVE EXISTING EQUIPMENT INDICATED. COORDINATE WITH ELECTRICAL/PLUMBING DEMOLITION DRAWINGS.
- REMOVE EXISTING CASEWORK AS INDICATED. REPAIR ANY DAMAGE TO FINISH SURFACES TO REMAIN. CLEAN FINISH SURFACES TO REMAIN.
- EXISTING EQUIPMENT/FIXTURES TO REMAIN.
- INSTALL TEMPORARY CONSTRUCTION PARTITION/WALL TO RETAIN NOISE, DUST AND DEBRIS FROM AFFECTING OPERATION OF ADJACENT SPACES (W/ DOOR)

FLOOR PLAN KEY NOTES:

- NEW SIGNAGE TO BE PROVIDED AND INSTALLED BY OWNER/SUPPLIER. COORDINATE POWER WITH ELECTRICAL DWGS.
- NEW MENU BOARDS TO BE PROVIDED BY OWNER. SUSPEND MENU BOARDS FROM STRUCTURE ABOVE EXISTING CEILING. CONTRACTOR TO SUSPEND MENU BOARDS FROM STRUCTURE ABOVE EXISTING CEILING. COORD. PROPER ANCHORAGE TO EXISTING STRUCTURE (PROVIDE MENU BOARD MOUNTING AS REQUIRED BY MANUFACTURER). COORDINATE SUPPORT LOCATIONS/CEILING PENETRATIONS WITH EXISTING CEILING GRID/TILE. COORDINATE REMOVAL AND REINSTALLATION OF EXISTING CEILING AS NEEDED TO COMPLETE MENU BOARD INSTALLATION. COORDINATE WITH EXISTING SERVICES IN/ABOVE EXISTING CEILING TO REMAIN (HVAC, ELECTRICAL, PLUMBING, FIRE PROTECTION, ETC.). CONTACT THE OWNER/ARCHITECT IF EXISTING CONDITIONS PREVENT INSTALLATION AS INDICATED. COORDINATE POWER WITH ELECTRICAL DRAWINGS.
- EXISTING FLOOR SURFACES TO REMAIN. NOTE TRANSITION IN EXISTING FLOOR TILE PRIOR TO CONSTRUCTING NEW KNEE WALL AT NEW CASEWORK. REPORT TO OWNER/ARCHITECT IF EXISTING FLOOR TRANSITION IS GOING TO BE VISIBLE FROM FRONT SIDE OF NEW COUNTER. THE DESIGN INTENT IS THAT THE EXISTING TRANSITION IN THE FLOOR TILE OCCURS ON THE EMPLOYEE SIDE OF THE NEW COUNTER.
- RETURN KNEE WALL AT COUNTER TO COLUMN.
- WOOD PANELS, RUN HORIZONTALLY (WD-1)
- PAINT SOFFIT/WALL (PT-1)
- PAINT SOFFIT/WALL (PT-2)
- PAINT SOFFIT/WALL/CLG. (PT-3)
- COORDINATE LOCATION OF GROMMETS IN COUNTERTOP WITH REQUIRED POWER FOR EQUIPMENT ON THE COUNTER.
- REFER TO SHEET A1.1 FOR COUNTER LAYOUT DETAILS.

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REVISIONS:

No.	Description	Date

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NKU
NORTHERN KENTUCKY UNIVERSITY

PROJECT NAME:

NORTHERN KENTUCKY UNIVERSITY STUDENT UNION RENOVATION - SBARRO PIZZA

STAMP:

REGISTERED ARCHITECT
NA 754
COMMONWEALTH OF KENTUCKY
ARCHITECT

SHEET TITLE:
DEMOLITION AND NEW WORK PLANS

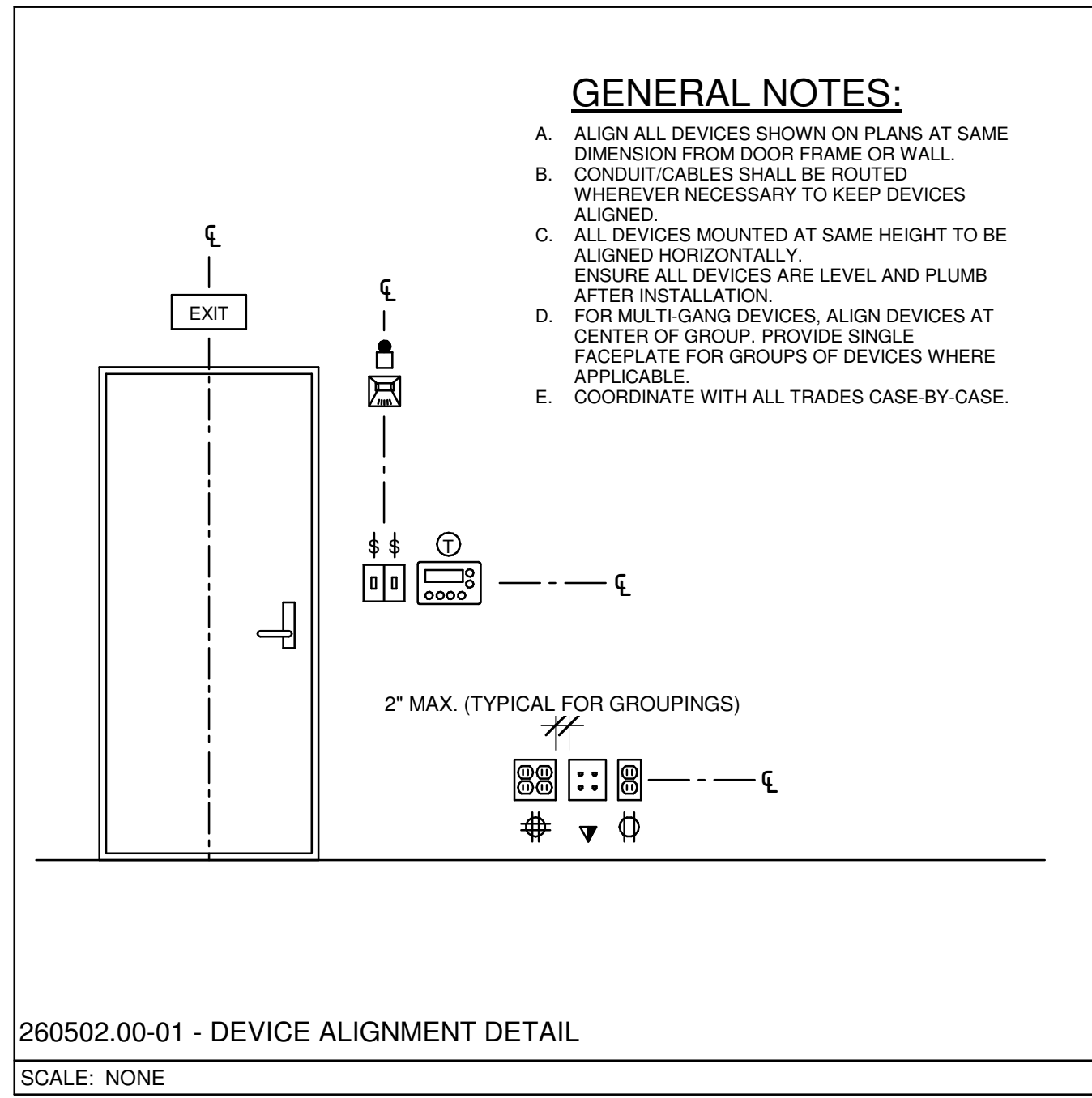
ARCHITECTURAL

PROJECT NO.: 2019-003
DRAWN BY: JC
CHECKED BY: JC
SCALE:
DATE: SEPTEMBER 2019
SHEET NUMBER:
A1.0

CONTRACT DOCUMENTS

9/20/2019 5:31:12 PM

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ELECTRIC LEGEND			
SYMBOL	DESCRIPTION		
LIGHTING AND LIGHTING CONTROLS			
	LUMINAIRE (REFER TO THE LUMINAIRE SCHEDULE) NOTE THAT OTHER SHAPES MAY ALSO BE USED TO REPRESENT LUMINAIRES		
	A = LUMINAIRE TYPE, NL = NIGHT-LIGHT (UNSWITCHED), a = SWITCHING DESIGNATION, EL = EGRESS LUMINAIRE (ILLUMINATES PATH OF EGRESS, ON ALL TIMES SPACE IS OCCUPIED)		
	LIGHTING SWITCH KEYS: 2 = 2-POLE, 3 = 3-WAY, 4 = 4-WAY, D-DIMMER, K-KEYED, LV = LOW VOLTAGE M = MOMENTARY-CONTACT 1PDT W/CENTER-REST, P = SWITCH W/PILOT LIGHT, T = TIMER SWITCH		
RECEPTACLES AND MISCELLANEOUS OUTLETS			
	SINGLE ("SIMPLEX"), DUPLEX, AND DOUBLE DUPLEX ("QUAD") RECEPTACLE RESPECTIVELY		
	GFI / GFCI RECEPTACLES		
	CEILING MOUNTED RECEPTACLES		
	FLOOR OUTLET - POWER AND / OR TECHNOLOGY		
	SPECIAL PURPOSE RECEPTACLE		
	RECEPTACLE ATTRIBUTES 42" = MOUNT RECEPTACLE AT THIS HEIGHT ABOVE GRADE / FINISHED FLOOR C = INSTALL ABOVE COUNTER AND BACKSPASH H = INSTALL RECEPTACLE HORIZONTALLY L = LIT (PROVIDE ILLUMINATED FACE OR INDICATOR LIGHT TO INDICATE THERE IS POWER TO RECEPTACLE) SW = SPLIT WIRED T = TAMPER-RESISTANT W = WEATHER PROOF WHILE IN USE COVER AND WEATHER RESISTANT RECEPTACLE		
FIRE ALARM DEVICES			
	FIRE ALARM SYSTEM SPEAKER / STROBE DEVICE (PROVIDE CANDELA (cd) RATING FOR STROBE AS INDICATED ON DRAWINGS)		
MISCELLANEOUS			
	INDICATES DIRECT CONNECTION TO EQUIPMENT		
	HEAVY DUTY DISCONNECT SWITCH (NON-FUSED) (LEFT) HEAVY DUTY DISCONNECT SWITCH (FUSED) (RIGHT)		
	ELECTRICAL SWITCHBOARD OR SWITCHGEAR (DIMENSIONS MAY VARY)		
	ELECTRICAL PANELBOARD OR DISTRIBUTION BOARD (DIMENSIONS MAY VARY / FLUSH OR SURFACE MOUNTED AS INDICATED)		
	DRY TYPE TRANSFORMER		
SINGLE LINE DIAGRAM			
	GROUNDING ELECTRODE PER NFPA 70 ARTICLE 250 MINIMUM		
	HEAVY DUTY DISCONNECT SWITCH (NON-FUSED)(LEFT) (FUSED)(RIGHT) SIZES MAY BE SHOWN ONLY IN SCHEDULE		
	ELECTRICAL PANELBOARD OR DISTRIBUTION BOARD		
	ELECTRICAL SWITCHBOARD OR SWITCHGEAR		
	SURGE PROTECTIVE DEVICE		
WIRE / CABLE / RACEWAY			
	BRANCH CIRCUIT HOME RUN WITH PANEL NAME AND CIRCUIT NUMBER(S)		
	CABLING / RACEWAY INSTALLED CONCEALED IN WALLS OR ABOVE CEILING		
	CABLING / RACEWAY INSTALLED BELOW FLOOR OR GRADE		
	CONDUIT UP OR DOWN		
ABBREVIATIONS			
(R)	RELOCATE FIXTURE, EQUIPMENT OR DEVICE	IG	ISOLATED GROUND
42"	DISTANCE ABOVE FINISHED FLOOR / GRADE / PAVEMENT	LR	LEGALLY REQUIRED STANDBY
AF	AMP FRAME OF FUSED SWITCH OR CIRCUIT BREAKER	LI	LONG - INSTANTANEOUS
AFCI	ARC-FAULT CIRCUIT INTERRUPTER	LSI	LONG - SHORT - INSTANTANEOUS
AIC	AMPS INTERRUPTING CURRENT	LSIG	LONG - SHORT - INSTANTANEOUS - GROUND FAULT
AT	AMP TRIP OF FUSED SWITCH OR CIRCUIT BREAKER	MCB	MAIN CIRCUIT BREAKER
ATS	AUTOMATIC TRANSFER SWITCH	MFR	MANUFACTURER
BAS	BUILDING AUTOMATION SYSTEM	MLO	MAIN LUGS ONLY
C.T.C.	WORK UNDER DIVISION 27 OR 28 AS APPLICABLE	MTS	MANUAL TRANSFER SWITCH
CB	CIRCUIT BREAKER	MW	MICROWAVE OVEN
CH	COUNTER HEIGHT OR SPECIAL HEIGHT DEVICE	NIC	NOT IN CONTRACT (SHOWN FOR REFERENCE ONLY)
DW	DISHWASHER	NTS	NOT TO SCALE
E	EMERGENCY	OFE	OWNER-FURNISHED EQUIPMENT - INSTALLED AND WIRED BY E.C.
E.C.	WORK UNDER DIVISION 26	OS	OPTIONAL STANDBY
EMS	ENERGY MANAGEMENT SYSTEM	P.C.	WORK UNDER DIVISION 22
EPO	EMERGENCY POWER OFF	S.C.	WORK UNDER DIVISION 21
ER	EQUIPMENT ROOM	SCCR	SHORT CIRCUIT CURRENT RATING
ERM	ENERGY REDUCTION MAINTENANCE SWITCH	SPD	SURGE PROTECTIVE DEVICE
ESP	EMERGENCY STANDBY RATING	ST	SHUNT TRIP
ETR	EXISTING TO REMAIN	TAAC	TO ABOVE ACCESSIBLE CEILING
EWC	ELECTRIC WATER COOLER	TR	TAMPER RESISTANT
EX	EXISTING	TTB	TELEPHONE TERMINAL BOARD
FBO	FURNISHED BY OTHERS - INSTALLED AND WIRED BY E.C.	TYP	TYPICAL
FIBO	FURNISHED AND INSTALLED BY OTHERS - WIRED BY E.C.	UCR	UNDER COUNTER REFRIGERATOR
FP	RECEPTACLE TO BE USED FOR A FLAT PANEL DISPLAY	UL	UNDERWRITERS LABORATORY
FWE	FURNISHED WITH EQUIPMENT BY OTHERS - INSTALLED AND WIRED BY E.C.	U.L.S.E.	LISTED FOR SERVICE ENTRANCE
GD	GARBAGE DISPOSAL	UNO	UNLESS NOTED OR INDICATED OTHERWISE ON DRAWINGS OR IN SPECIFICATIONS
GFEP	GROUND FAULT EQUIPMENT PROTECTION	VFD / VSD	VARIABLE FREQUENCY / SPEED DRIVE
GFI / GFCI	GROUND FAULT CIRCUIT INTERRUPTER DEVICE	VIF	VERIFY IN FIELD
GND	GROUND	VM	VENDING MACHINE
H.C.	WORK UNDER DIVISION 23	VP	VANDAL PROOF
H.O.A.	"HAND - OFF - AUTO" SWITCH	W / WP	WEATHERPROOF
		WG	WIRE GUARD
		WR	WEATHER RESISTANT
PLAN-VIEW AND GRAPHIC LINE TYPES			
WORK SHOWN BOLD-CONTINUOUS INDICATES NEW WORK (UNLESS OTHERWISE INDICATED)			
WORK SHOWN FADED INDICATES EXISTING WORK TO REMAIN OR NEW WORK BY OTHERS AS APPLICABLE (UNLESS OTHERWISE INDICATED)			
WORK SHOWN BOLD-DASHED INDICATES SELECTIVE DEMOLITION WORK (UNLESS OTHERWISE INDICATED)			

ELECTRIC DESIGN CRITERIA	
APPLICABLE BUILDING CODES	
2018 KENTUCKY BUILDING CODE (BASED ON THE INTERNATIONAL BUILDING CODE)	
2017 NFPA 70 - NATIONAL ELECTRICAL CODE	
2010 NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE	
2012 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)	

GENERAL ELECTRICAL INSTALLATION NOTES

- CODE COMPLIANCE:** PROVIDE ALL ELECTRICAL WORK COMPLIANT WITH ALL PREVAILING CODES.
- LISTINGS:** PROVIDE MATERIALS, COMPONENTS AND ASSEMBLED COMPONENTS WITH LISTINGS AND LABELS FROM A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL), MANUFACTURED, LISTED AND LABELED FOR THEIR INTENDED USE.
- RATED BUILDING SURFACES:** SEPARATE DEVICE BOXES BY A MINIMUM OF 6 INCHES WHERE INSTALLED BACK-TO-BACK WITHIN DEMISING WALLS TO MAINTAIN REQUIRED FIRE AND SOUND RATING (TYPICAL OF ALL DEVICE BOXES INSTALLED ON DEMISING WALLS). PROVIDE LISTED FIRE-RATED WRAPS AROUND ALL RECESSED OUTLET, DEVICE AND EQUIPMENT BOXES IN FIRE/SMOKE RATED WALLS, CEILINGS AND FLOORS TO MEET OR EXCEED THE RESPECTIVE FIRE/SMOKE RATING OF THE SURFACE.
- RATED PENETRATIONS:** SEAL ALL PENETRATIONS THROUGH FIRE-RATED AND/OR SMOKE-RATED MEMBRANES (FLOORS, WALLS, CEILING, ETC.) USING SEALANT PRODUCTS THAT MEET OR EXCEED THE RATING OF THE RESPECTIVE MEMBRANE.
- GANGED DEVICES:** INSTALL WIRING DEVICES GANGED WHEREVER POSSIBLE FOR INSTANCES WHERE THEY ARE SHOWN TOGETHER. THIS INCLUDES LOCATIONS ABOVE COUNTERS AND WORK SURFACES WHERE APPLICABLE.
- OUTLET BOXES NEAR CORNERS:** INSTALL WALL-MOUNTED SWITCHES, CONTROLS, RECEPTACLES, OUTLETS, ETC. AT LEAST 6 INCHES FROM WALL CORNERS.
- CONCEALMENTS:** CONCEAL ALL CONDUIT DROPS AND RISES WITHIN WALLS, AND PROVIDE FLUSH-MOUNTED WALL OUTLET BOXES UNLESS OTHERWISE INDICATED.
- DOCUMENTS OF OTHER TRADES:** REVIEW DOCUMENTS OF OTHER TRADES, INCLUDING ARCHITECTURAL, PRIOR TO SUBMITTING A BID. PROVIDE ELECTRICAL WORK FOR EQUIPMENT, DEVICES, ETC. OF OTHER TRADES AS REQUIRED TO RENDER THEM FULLY OPERATIONAL. REFER TO ARCHITECTURAL ELEVATIONS FOR INTENDED LOCATIONS AND MOUNTING HEIGHTS FOR EQUIPMENT AND OUTLETS, ETC. PRIOR TO COMMENCING WITH ANY RELATED ROUGH-IN WORK.
- SCHEMATIC REPRESENTATIONS:** CIRCUITING WORK SHOWN ON DRAWINGS IS FOR SCHEMATIC GENERAL GRAPHIC REPRESENTATION ONLY. DETERMINE SPECIFICS IN FIELD (POINT-TO-POINT ROUTING, HOME-RUN LOCATIONS, METHODS OF CONCEALMENT, ETC.). LOCATIONS AND ROUTING INDICATED ON PLANS ARE SCHEMATIC AND DIAGRAMMATIC IN NATURE. LAYOUT AND INSTALL ALL ELECTRICAL WORK IN STRICT COMPLIANCE WITH CHAPTER 1, PART II, ARTICLE 110.26 OF THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70).
- HOME-RUN DESIGNATIONS:** HOME-RUN DESIGNATIONS INDICATED ON PLANS ARE SCHEMATIC DESIGNATIONS ONLY. DETERMINE EXACT CIRCUIT ASSIGNMENTS IN FIELD BASED ON FIELD CONDITIONS. PROVIDE COLOR-CODED CONDUCTOR INSULATION ACCORDINGLY. CODED PROPERLY DEPENDING ON SYSTEM, PHASE, NEUTRAL, ETC. PROVIDE EQUIPMENT AND PANELBOARD SCHEDULES THAT ACCURATELY INDICATE INSTALLED CONDITIONS.
- LOCAL DISCONNECTS AND CONTROLS AT EQUIPMENT:** LOCAL DISCONNECTS AND LOCAL CONTROLS SHOWN AT OR ON EQUIPMENT IN PLAN-VIEW ARE SHOWN FOR SCHEMATIC ASSOCIATIONS ONLY. AVOID INSTALLING DISCONNECTS OR CONTROLS ON EQUIPMENT ENCLOSURES. INSTALL ON ADJACENT WALLS OR BUILDING STRUCTURE, OR PROVIDE FIELD-FABRICATED UNISTRUT OR EQUIVALENT ASSEMBLIES AS NEEDED. PROVIDE FIELD COORDINATION WITH SITE CONDITIONS AND OTHER TRADES, AND PROVIDE ALL RELATED WORK IN STRICT COMPLIANCE WITH NFPA 70, INCLUDING ARTICLE 110.26.
- EQUIPMENT & LOAD COORDINATION:** REFER TO AND COORDINATE WITH POWER FLOOR PLANS, EQUIPMENT SCHEDULES (INCLUDING EQUIPMENT COORDINATION SCHEDULES), DRAWINGS OF ALL TRADES, ALL DIVISIONS AND SECTIONS OF SPECIFICATIONS AND INSTALLERS OF ALL TRADES, BASED ON ACTUAL EQUIPMENT BEING PROVIDED. DETERMINE AND PROVIDE APPROPRIATE BREAKERS, FUSES, CONDUCTORS, CONTROLS, POWER DISTRIBUTION EQUIPMENT, ETC. PERFORM THESE SERVICES PRIOR TO FURNISHING POWER DISTRIBUTION EQUIPMENT SUBMITTALS.
- EXTERIOR ELECTRICAL WORK AND WORK SUBJECT TO MOISTURE:** EXTERIOR ELECTRICAL WORK SHALL BE WEATHERPROOF AND WATER-TIGHT, AND SHALL BE RUST-RESISTANT. PROVIDE XHHW-2 CONDUCTORS FOR ALL APPLICATIONS THAT ARE BELOW GRADE OR SUBJECT TO MOISTURE. PROVIDE MINIMUM NEMA 3R ENCLOSURES FOR ALL OUTDOOR EQUIPMENT AND ALL INDOOR EQUIPMENT THAT IS SUBJECT TO MOISTURE. PROVIDE NEMA 1 ENCLOSURES FOR ALL OTHER INDOOR EQUIPMENT.
- EQUIPMENT GROUNDING CONDUCTORS:** PROVIDE EQUIPMENT GROUNDING CONDUCTORS IN STRICT COMPLIANCE WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70), INCLUDING ARTICLE 250 AND TABLE 250.122. THESE CONDUCTORS MAY OR MAY NOT BE INDICATED ON SINGLE-LINE DIAGRAMS OR ELSEWHERE, BUT SHALL BE PROVIDED UNDER BASE BID NEVERTHELESS.
- OVERHEAD WORK:** HOLD ALL NEW OVERHEAD ELECTRICAL WORK AS TIGHTLY AS POSSIBLE TO THE BOTTOM OF THE OVERHEAD STRUCTURE. DO NOT INSTALL ANY ELECTRICAL WORK WITHIN SIX INCHES OF ROOF DECKING.
- COORDINATION DRAWINGS:** LAYOUT ALL PROPOSED RACEWAY ROUTING, ELEVATIONS, INSTALLATION METHODS, ETC. ON COORDINATION DRAWINGS AND COORDINATE ALL PROPOSED RACEWAY ROUTING WITH ALL AFFECTED TRADES PRIOR TO COMMENCING WITH WORK. IN ADDITION, REVIEW THE INFORMATION WITH ARCHITECT, ENGINEER AND OWNER FOR ALL AREAS WHERE THE RACEWAYS WILL BE VISIBLE AFTER COMPLETION OF CONSTRUCTION.
- JUNCTION AND PULL BOXES:** LOCATE JUNCTION AND PULL BOXES SO THAT THEY REMAIN ACCESSIBLE AFTER ALL CONSTRUCTION WORK IS COMPLETE. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO COMMENCEMENT OF THE WORK. LOCATE BOXES IN A MANNER THAT AVOIDS HAVING TO USE ACCESS PANELS. IF ACCESS PANELS ARE INEVITABLE, PROVIDE THEM RATED TO MEET OR EXCEED THE FIRE AND/OR SMOKE RATINGS OF THE RESPECTIVE CEILING OR WALL, AND OBTAIN APPROVAL OF DESIGN PROFESSIONALS FOR EACH LOCATION.
- CONDUCTOR TERMINATIONS:** IN CASES WHERE CONDUCTOR SIZES ARE TOO LARGE TO FIT INTO LUGS/TERMINALS, PROVIDE APPROPRIATE FACTORY LUG KITS FOR AFFECTED EQUIPMENT IF AVAILABLE. ELSEWHERE, PROVIDE INSULATED BUTT-SPLICERS OR EQUIVALENT METHOD, WITH TAILS SIZED TO FIT LUGS/TERMINALS. PROVIDE SPLICES IN SEPARATE BOXES IF REQUIRED BASED ON FIELD CONDITIONS, BOX SIZE LIMITATIONS, ETC. CONCEAL BOXES IN ACCESSIBLE OVERHEAD JOIST SPACES IN FINISHED REGULARLY OCCUPIED AREAS.

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NORTHERN KENTUCKY UNIVERSITY

PROJECT NAME:

NORTHERN KENTUCKY UNIVERSITY
STUDENT UNION RENOVATION - SBARRO PIZZA

STAMP:

SHEET TITLE:

ELECTRIC COVER SHEET

ELECTRICAL

PROJECT NO.: 2019-003
DRAWN BY: RTT
CHECKED BY: DTJ
SCALE: 1/8" = 1'-0"
DATE: SEPTEMBER 2019
SHEET NUMBER:

E-001

KLH PROJ. #21271.00

CONTRACT DOCUMENTS

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All equipment and system identification nomenclature shown on drawings or listed herein is shown for general design and installation reference only. The actual nameplate, etc. nomenclature for this project shall be verified by electrical contractor in field prior to fabrication and where applicable, shall be an extension of existing nomenclature used on the site as determined in field by electrical contractor.

Equipment to Be Labeled: All enclosures for all electrical equipment furnished or installed under Divisions 26 and 28; Remote-controlled switches, dimmer modules, and control devices, via engraved wall plates; Miscellaneous Control Stations; Access doors and panels for concealed electrical items; Other similar equipment designated by owner's representative, architect or engineer in field.

26 24 16.00 – PANELBOARDS

Submittal Requirements

Product Data: For each provide bus configuration, current ratings, voltage ratings, SCCR Ratings, overcurrent protective device(s), surge suppression device(s), accessory, and components indicated. Include dimensions and manufacturers' technical data on features, performance, electrical characteristics, ratings, accessories, and finishes.

Subject to compliance with requirements, provide panelboard products of one of the following (for each type and rating of panelboard and enclosure): Square D Company, General Electric Company, Siemens, Eaton/Cutler-Hammer.

Panelboards shall bear UL labels for their specific applications. Panelboards shall be suitable for service voltage with number of branch circuits of capacity scheduled. Unless otherwise indicated, panelboards and sections thereof, if any, shall have main-lugs-only of capacity equal to, or greater than, the rating or setting of the over the current protective device next back on the line. All circuit breaker panelboard bus assemblies shall be of the distributed (sequence) bussing type throughout, so that any 2 adjacent single pole breakers and/or spaces shall be replaceable by a 2-pole internal common trip breaker, and any 3 adjacent single pole breakers and/or spaces shall be replaceable by a 3 pole internal common trip breaker, 15 amp through 70 amp inclusive, without disturbing any other breaker. All panelboards shall be UL listed and labeled for use as service entrance equipment where being used as such.

480Y/277V panelboards shall be equal to Square D NF with bolt-on branch breakers
208Y/120V panelboards shall be equal to Square D NQ with bolt-on branch breakers

All bussing shall be copper or aluminum.

All branch circuit breakers shall be full ambient compensated thermal magnetic molded case with quick-make and quick-break action and positive handle trip indication, both on manual and on automatic operation. Breakers shall be of the over-the-center toggle operating type with the handle going to a position between "on" and "off" to indicate automatic tripping. All breakers shall be bolt-on type.

All circuit breakers shall be full size. "Tandem" or "split" breakers shall not be permitted. All multi-pole breakers shall have internal common trip with all load side box lugs of one breaker in the same gutter. All circuit breakers shall have sealed cases to prevent tampering. All 15 and 20 ampere branch circuit breakers shall be UL Listed as SWD (switching duty). All 15-70 ampere branch circuit breakers shall be HACR Type. All GFCI circuit breakers shall be UL Class A with maximum threshold of 5 mA. All branch circuit breakers serving all ballasted (fluorescent/HID) lighting loads shall be HID rated.

Provide all electrical distribution related equipment with appropriately braced bussing and properly rated breakers, fuses, etc. for the available fault currents. In existing buildings where fault current values are not indicated on drawings, coordinate with existing "upstream" distribution equipment provide equipment AIC ratings to meet or exceed same.

Fill out panelboard's circuit directory card upon completion of installation work. Directories shall be neatly typewritten. All panelboard directories shall include the actual room names/numbers that are selected for interior signage/designation.

All recessed panelboards shall be provided with a minimum of three 1-1/4" empty conduits terminated to a single 12" X 12" X 6" deep junction box above accessible ceiling.

26 27 26.00 - WIRING DEVICES

Submittal Requirements

Product Data: For each type include electrical characteristics, configurations, ratings, markings, colors, etc.

General:

Unless specifically indicated otherwise, or directed otherwise in field, provide black color for normal utility wiring devices.

Provide grounded ("neutral") conductors in all wall switch, dimmer and other lighting control outlet boxes, even if not immediately utilized.

Provide wall plates with engraved legends where indicated on drawings and/or where required per 26 05 53.00 - IDENTIFICATION FOR ELECTRICAL SYSTEMS Section. All device wall plates shall be standard size; "midway", "oversized" ("jumbo") or "extra deep" wall plates shall not be acceptable. Construct with metal screws for securing plates to devices; screw heads colored to match finish of plates. Except where/it indicated otherwise on drawings, wall plates in finished areas shall be commercial specification grade, satin finish stainless steel, with beveled edges, equal to Leviton Type 430 series. Wall plates in unfinished areas shall be galvanized steel unless otherwise noted. Refer to architectural finish schedules and owner representative for additional information.

Wall-Box Type Lighting Controls:

Provide wall switches, that are flush self-grounding with green ground screw and color-coded cover, snap toggle type, back and side wired, specification grade. Provide wall switches rated 20A, 120/277 volts, 1 HP at 120V, A.C. quiet type.

LED Dimmers: Specification grade; modular; thin profile; compatible with dimming drivers; dimmer-driver combination capable of consistent full-range dimming. Provide dimming drivers and dimmer switches that are fully compatible with each other. Do not break off side heat-sink sections when ganging dimmers. Provide dimmer and wall plate colors that match other wiring devices in the respective room. Multiple wallbox dimmers may be used sporadically throughout the project on common circuits; provide compatible dimmers accordingly. Install dimmers within terms of their listing. Verify that dimmers used for fan speed control are listed for that application. Provide dedicated neutrals for circuits serving loads controlled by dimmers. Provide unshared neutral conductors on line and load side of dimmers according to manufacturers' device listing conditions in the written instructions.

Receptacles:

Special purpose receptacles shall be of the size, type and manufacturer as indicated on the plans or as determined in field.

Duplex and Single Specification Grade Receptacles: 2-pole, 3-wire grounding, self-grounding, green grounding screw, ground terminals and poles internally connected to mounting yoke, color coded base, 20-amperes, 125-volts, with metal plaster ears, back and side wiring, NEMA configuration 5-20R. Provide duplex receptacles equal to Leviton #5362 series. For receptacle circuits protected with 15A breakers, provide NEMA 5-15R equivalents. Provide receptacles equal to Leviton #5361 series for simplex (single) applications. Provide clock hanger receptacles equal to Leviton #5361-CH.

Self-Grounding Commercial Specification grade, Duplex Receptacles, Ground-Fault Circuit Interrupters: Feed-thru type, capable of protecting connected downstream receptacles on single circuit, grounding type UL-rated 943, Class A, Group 1, specification grade, 20-amperes rating (device and feed-thru), 125-volts, 60 Hz; with solid-state ground-fault sensing and signaling (maximum threshold of 5mA at 0.025 seconds maximum); equip with 20-ampere plug configuration, NEMA 5-20R. Provide ground fault circuit interrupter duplex receptacles equal to Leviton #8898 series. For receptacle circuits protected with 15A breakers, provide NEMA 5-15R equivalents. Where GFCI protected receptacles are shown on drawings, provide a separate GFCI receptacle for each one shown. Do not feed downstream receptacles from load-side (GFCI-protected) terminals of upstream receptacles.

26 51 00.00 - LIGHTING

Submittal Requirements

Product Data: For each type include detailed product information, light source, color temperature, color rendering index, lumen outputs, life, driver manufacturer, model and type, ceiling connection details, integral controls as applicable, drawings of custom fixtures or components, wiring diagrams, warranty, etc. Arrange luminaire submittals in booklet form with separate sheets for each luminaire, assembled by luminaire "type" in alphabetical order.

All recessed luminaires shall be equipped with necessary plaster frames and surface trim.

All junction boxes and serviceable components for recessed luminaires shall be readily accessible for service or replacement from below the ceiling, without removing any ceiling components (other than tiles).

All luminaires utilized for emergency and/or egress lighting shall be connected ahead of switching. All drivers of the same type shall be of the same manufacturer and catalog number. All LED modules of the same type shall be of the same manufacturer and catalog number.

Light Emitting Diode (LED) Systems: Provide factory installed LED modules that are specifically designed for, and matched and mated to, the respective luminaire in which they are used. Provide LED modules that can easily be replaced in the field and are readily accessible for replacement. Provide color temperature as indicated in Luminaire Schedule. Provide factory installed driver(s) for the LED source utilized that are specifically coordinated to the LED source and luminaire in which they are used. Provide driver(s) having specific operating characteristics defined in the Luminaire Schedule. Provide driver(s) that can easily be replaced in the field and are readily accessible for replacement. Provide specification sheet for the specific driver as part of the Luminaire Submittal. Provide Total Harmonic Distortion (THD) rating of less than 20 percent. Provide factory-installed integral filtering system to ensure THD does not exceed 20 percent regardless of quantities and/or mixes with other manufactured LED systems.

All surface and recessed ceiling luminaires installed on grid or tile ceilings shall be installed to agree with module of ceiling either displacing a tile, or unit on center of tile, or centered on grid lines.

Provide luminaires and/or luminaire outlet boxes with hangers to properly support luminaire weight. All luminaires installed in or on suspended ceiling systems shall be anchored directly to the building structural system above. Such anchoring shall be independent of the ceiling support system. All luminaires shall be installed plumb and level. Support surface mounted luminaires greater than 2 feet in length at a point in addition to the outlet box luminaire stud.

Occupancy Adjustments: When requested within 12 months of date of Substantial Completion, provide on-site assistance in adjusting aimable luminaires to suit actual occupied conditions. Provide up to two visits to Project during other-than-normal occupancy hours for this purpose. Some of this work may be required after dark. Adjust aimable luminaires in the presence of Owner's Representative and Design Professionals.

END OF SPECIFICATION

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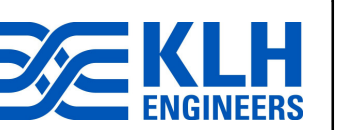
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REVISIONS:

No.	Description	Date

CONSULTANTS:



ARCHITECT:



CLIENT:



PROJECT NAME:

NORTHERN KENTUCKY UNIVERSITY STUDENT UNION RENOVATION - SBARRO PIZZA

STAMP:



SHEET TITLE:

ELECTRIC SPECIFICATIONS

ELECTRICAL

PROJECT NO.: 2019-003

DRAWN BY: RTT

CHECKED BY: DTJ

SCALE: DATE: SEPTEMBER 2019

SHEET NUMBER: E-702

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PROJECT NAME:
 NORTHERN KENTUCKY UNIVERSITY STUDENT UNION RENOVATION - SBARRO PIZZA

STAMP:

 09/19/19

SHEET TITLE:
 ELECTRIC LIGHTING - SECOND FLOOR

ELECTRICAL
 PROJECT NO.: 2019-003
 DRAWN BY: RTT
 CHECKED BY: DTJ
 SCALE: 1/4" = 1'-0"
 DATE: SEPTEMBER 2019
 SHEET NUMBER:

EL100
 KLH PROJ. #21271.00

ELECTRIC LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER / SERIES	SIZE	HOUSING / MOUNTING	MATERIAL	LENS DESCRIPTION	LAMP QTY	LAMP TYPE	LAMP BASE	BALLAST / DRIVER QTY	BALLAST / DRIVER	FINISH	COMMENTS	FIXTURE LOAD	VOLTAGE
PS16	TABLE MOUNT LINEAR	VODE WINGRAIL TABLE ARM 107	6'x2.12'x1.14"	TABLE MOUNT	ALUMINUM	CLEAR	1	6.1W/FT LED, 4000K, 90+ CRI	512 LUMENS PER FOOT	1	INTEGRAL ELECTRONIC, MVOLT, DIMMABLE, COMPATIBLE WITH SPECIFIED LIGHTING CONTROLS	CLEAR	FIELD REPLACEABLE LED MODULE AND DRIVER, COORDINATE FINAL LENGTH AND LOCATION OF LUMINAIRE WITH SNEEZE GUARD.	37 VA	120 V
PS19	TABLE MOUNT LINEAR	VODE WINGRAIL TABLE ARM 107	9'x2.12'x1.14"	TABLE MOUNT	ALUMINUM	CLEAR	1	6.1W/FT LED, 4000K, 90+ CRI	512 LUMENS PER FOOT	1	INTEGRAL ELECTRONIC, MVOLT, DIMMABLE, COMPATIBLE WITH SPECIFIED LIGHTING CONTROLS	CLEAR	FIELD REPLACEABLE LED MODULE AND DRIVER, COORDINATE FINAL LENGTH AND LOCATION OF LUMINAIRE WITH SNEEZE GUARD.	55 VA	120 V

Interior Lighting Compliance Certificate

2012 IECC Section 1: Project Information

Project Type: Alterations

Section 2: Interior Lighting and Power Calculation

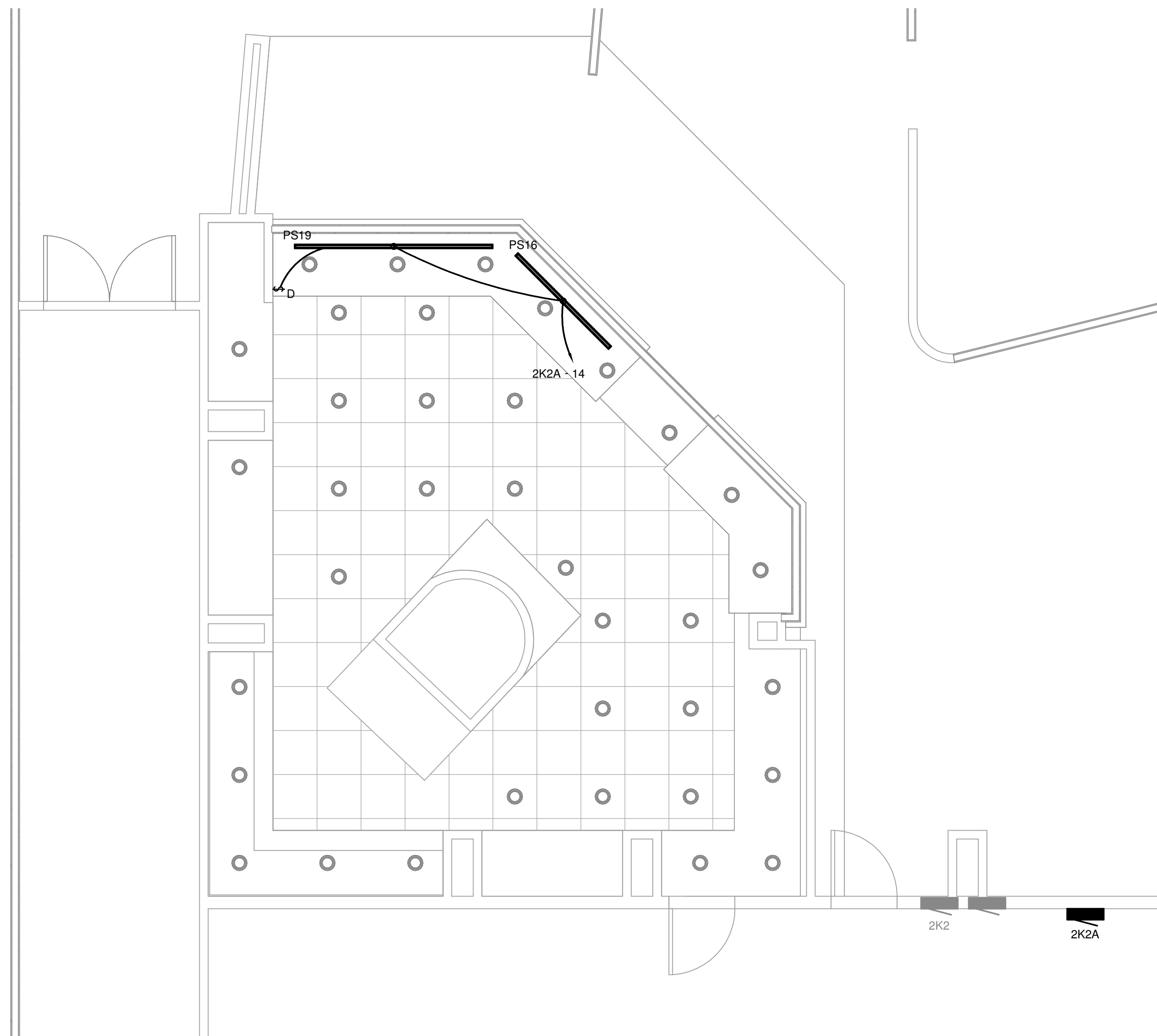
Floor Area (sq. ft.)	Watts per sq. ft.	Allowed Watts	Proposed Watts	Complies
900	1.4	1260	See Below	Yes

Section 3: Interior Lighting Fixture Schedule

TYPE	LAMP TYPE	BALLAST / DRIVER	LAMP QTY	COUNT	LOAD	TOTAL LOAD
DOWNLIGHT	EXISTING	EXISTING	1	36	32 VA	1152 VA
PS16	6.1W/FT LED, 4000K, 90+ CRI	INTEGRAL ELECTRONIC, MVOLT, DIMMABLE, COMPATIBLE WITH SPECIFIED LIGHTING CONTROLS	1	1	37 VA	37 VA
PS19	6.1W/FT LED, 4000K, 90+ CRI	INTEGRAL ELECTRONIC, MVOLT, DIMMABLE, COMPATIBLE WITH SPECIFIED LIGHTING CONTROLS	1	1	55 VA	55 VA
						1244 VA

GENERAL NOTES

- REFER TO DRAWINGS FOR MOUNTING TYPE, NUMBER OF FACES AND ARROWS OF EXIT SIGNS. VERIFY IN FIELD PRIOR TO INSTALLATION.
- VERIFY COMPATIBILITY WITH VOLTAGE, CONTROLS, ETC. FOR ALL LUMINAIRE COMPONENTS.
- COORDINATE EACH LUMINAIRE LOCATION WITH THE ARCHITECTURAL REFLECTED CEILING PLANS, CEILING INSTALLERS, ETC. AND PROVIDE APPROPRIATE MOUNTING SYSTEM REQUIRED FOR EACH LUMINAIRE. ALSO, PROVIDE PLASTER FRAMES, WALL BRACKETS, SUPPORTS, OR OTHER APPURTENANCES AS REQUIRED FOR PROPER AND COMPLETE INSTALLATIONS.
- WEAR CLEAN WHITE COTTON GLOVES WHEN HANDLING EXPOSED REFLECTIVE LUMINAIRE SURFACES. REMOVE PLASTIC SHIPPING BAGS ONLY AFTER INTERIOR WORK IS COMPLETE. AND CLEAN ALL SURFACES WITH CLEAN DRY CHEESECLOTH.
- MOUNTING HEIGHTS INDICATED ARE TO THE BOTTOM OF THE LUMINAIRE, UNLESS OTHERWISE NOTED.
- PRODUCTS: PROVIDE PRODUCTS INDICATED ON DRAWINGS AND SCHEDULES. WHERE MULTIPLE MANUFACTURER SERIES/MODEL NUMBERS ARE LISTED FOR A SINGLE LUMINAIRE, PROVIDE ONE OF THOSE LISTED. WHERE A SPECIFIC MANUFACTURER SERIES/MODEL NUMBER IS LISTED AS BASIS-OF-DESIGN, AND WHERE IT IS STATED THAT EQUIVALENTS WILL BE CONSIDERED, ANY PROPOSED NON-LISTED LUMINAIRES ARE SUBJECT TO REVIEW BY DESIGN PROFESSIONAL(S), SUBMITTALS FOR WHICH SHALL BE FURNISHED AT LEAST (10) DAYS PRIOR TO BID DUE DATE OR THEY WILL NOT BE CONSIDERED. THESE PRE-BID SUBMITTALS SHALL CLEARLY STATE EXACTLY WHAT IS BEING PROPOSED AND SHALL DEMONSTRATE COMPLIANT EQUIVALENCY. SIMILAR REQUESTS FOR PROPOSED SUBSTITUTIONS MAY BE MADE ONLY AFTER BIDS ARE RECEIVED, AND ONLY IF OWNER CHOOSES TO CONSIDER SUBSTITUTION REQUESTS. DESIGN PROFESSIONAL(S) AND OWNER RESERVE THE RIGHT TO REJECT ALL PRODUCTS THAT ARE NOT DEEMED TO BE FULLY EQUIVALENT TO THE BASIS-OF-DESIGN LISTING(S). SUBMIT ALL REQUESTS AND QUESTIONS THROUGH THE FORMALLY ESTABLISHED BIDDING PROCESS, NOT DIRECTLY TO ENGINEER.



① ELECTRIC LIGHTING - SECOND FLOOR
 1/4" = 1'-0"

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REVISIONS:

No.	Description	Date

CONSULTANTS:

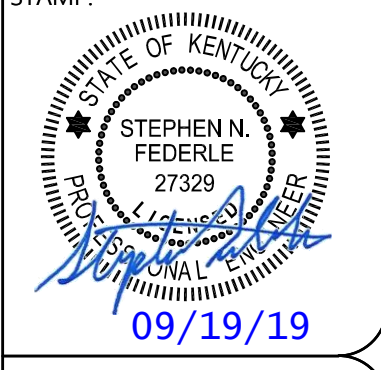

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PROJECT NAME:
 NORTHERN KENTUCKY UNIVERSITY STUDENT UNION RENOVATION - SBARRO PIZZA

STAMP:


SHEET TITLE:
 ELECTRIC POWER - SECOND FLOOR

ELECTRICAL

PROJECT NO.:	2019-003
DRAWN BY:	RTT
CHECKED BY:	DTJ
SCALE:	1/4" = 1'-0"
DATE:	SEPTEMBER 2019
SHEET NUMBER:	

EP100
 KLH PROJ. #21271.00

GENERAL NOTES

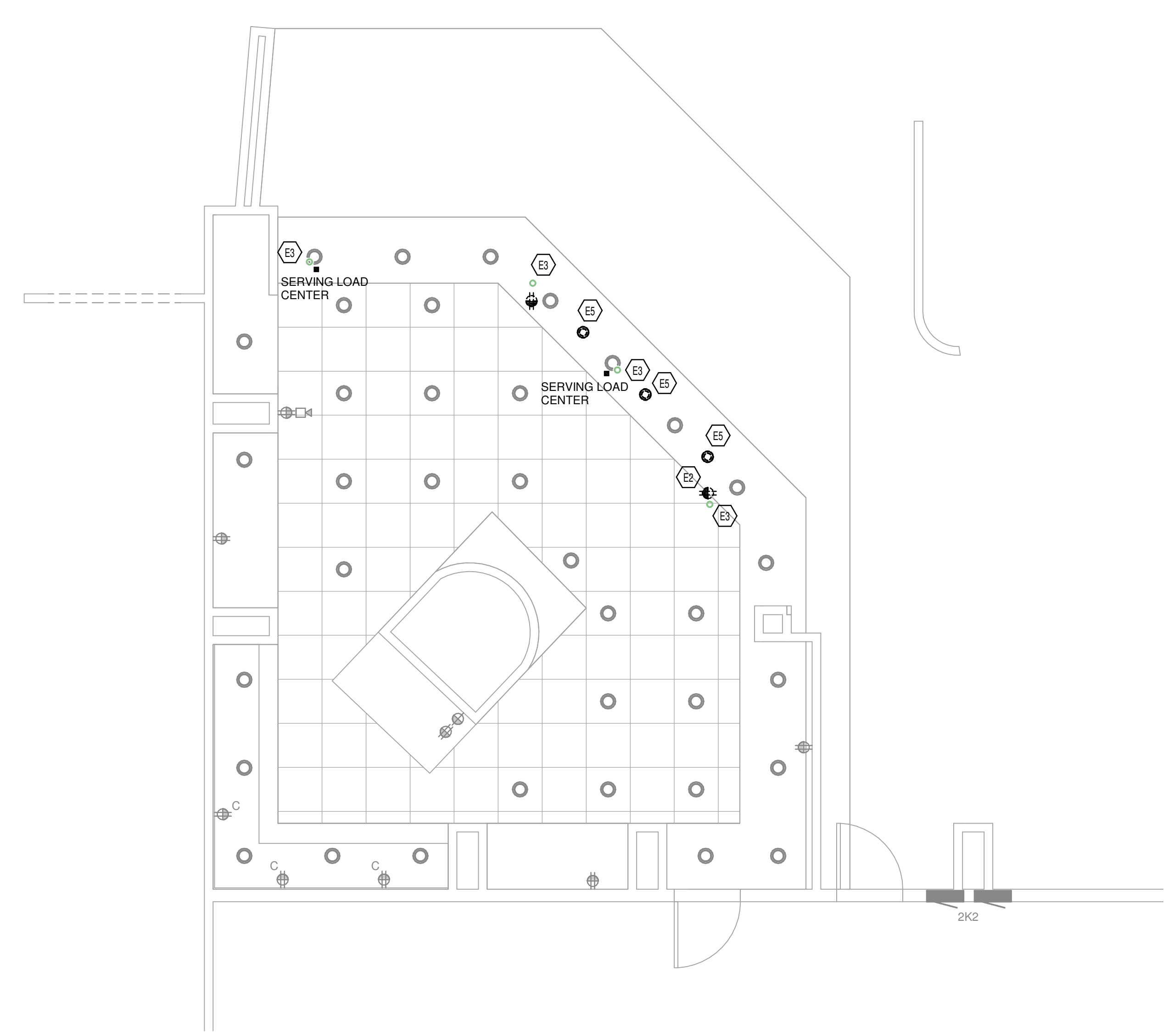
- A. COORDINATE LOCATION OF ALL NEW DEVICES WITH NEW CASEWORK, WALLS, AND EQUIPMENT IN FIELD. ENSURE NEW DEVICES ARE ACCESSIBLE AND ALL EQUIPMENT CONNECTIONS CAN BE MADE.

KEYED NOTES

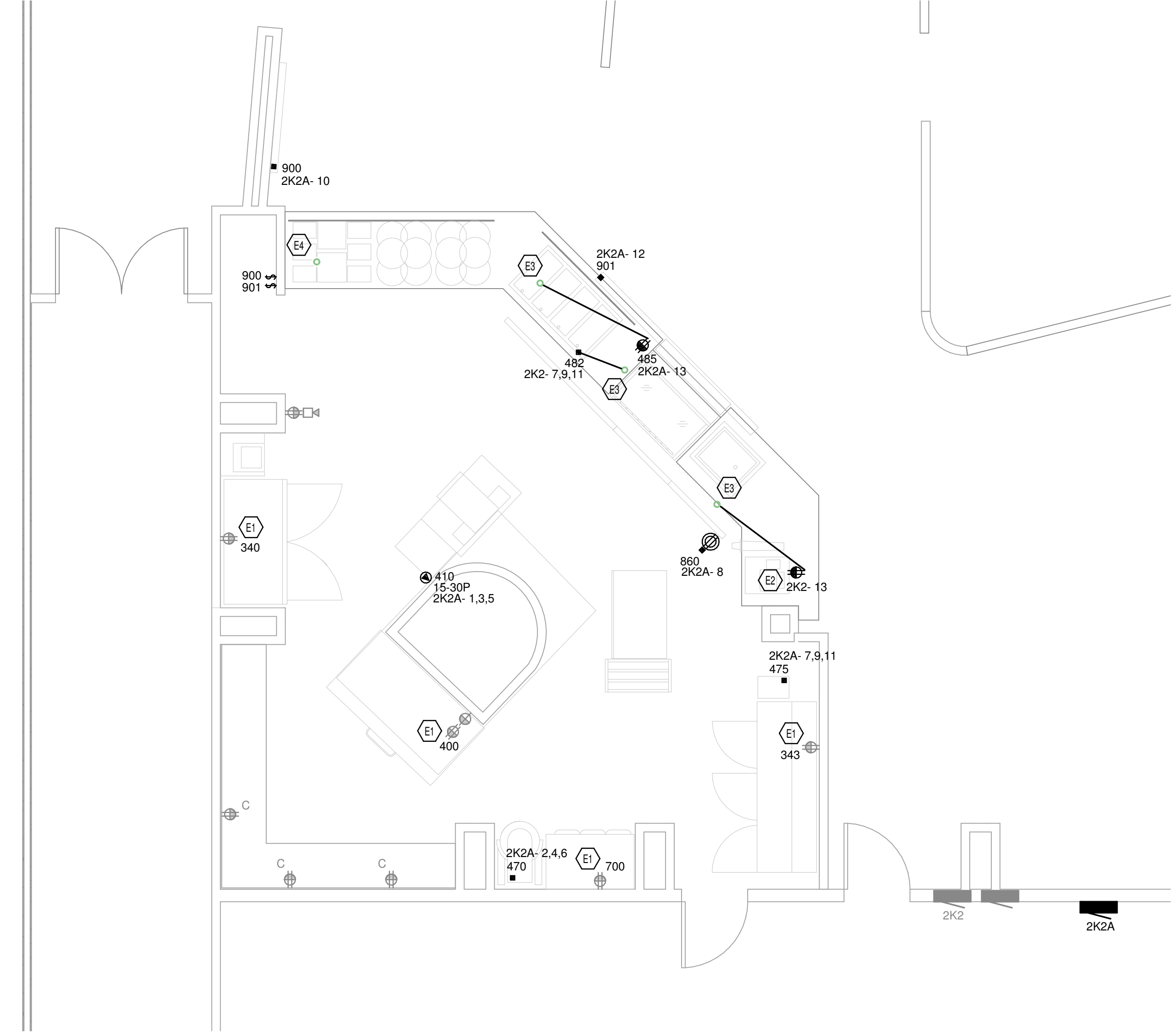
- E1 EQUIPMENT SHALL BE POWERED FROM EXISTING RECEPTACLE AND CIRCUIT.
- E2 RELOCATE EXISTING RECEPTACLE AND DATA FROM DEMOLISHED P.O.S. LOCATION TO NEW LOCATION SHOWN. UTILIZE EXISTING CIRCUITING AND EXTEND/MODIFY AS NECESSARY. NO CUTTING OR TRENCHING OF FLOOR SHALL OCCUR. LINE SHOWN IS TO INDICATE DESTINATION AND NOT ACTUAL PATH. PROVIDE CONDUIT FOR EXTENSION OF CIRCUITING.
- E3 EXISTING CONDUIT STUB UP. STUB UP SHALL BE USED FOR NEW CIRCUITING TO EQUIPMENT SHOWN. NO CUTTING OR TRENCHING OF FLOOR SHALL OCCUR. LINE SHOWN IS TO INDICATE DESTINATION AND NOT ACTUAL PATH. PROVIDE CONDUIT FOR EXTENSION OF CIRCUITING.
- E4 EXISTING CONDUIT STUB UP. STUB UP NOT NEEDED FOR NEW EQUIPMENT IN THIS LOCATION. REMOVE WIRING FOR EXISTING CIRCUIT AND REPLACE WITH PULL STRING THROUGH CONDUIT IN CASE OF FUTURE NEED.
- E5 REMOVE EXISTING PENDANT DOWNLIGHTS. MODIFY EXISTING CIRCUITING TO MAINTAIN POWER TO REMAINING DEVICES ON CIRCUIT. COORDINATE PATCHING AND PAINTING OF SOFFIT WITH GENERAL CONTRACTOR.

KITCHEN EQUIPMENT SCHEDULE

Equipment Mark	Description	Voltage	Phase	Load	Supply From	Supply From Circuit Number
340	2 DOOR REACH IN REFRIGERATION	120 V	1	1000 VA		EXISTING
343	REFRIGERATED PIZZA PREP	120 V	1	1000 VA		EXISTING
400	DECK PIZZA OVEN	120 V	1	500 VA		EXISTING
410	CONVEYOR OVEN	208 V	3	8276 VA	2K2A	1.3,5
470	DOUGH MIXER	208 V	3	5793 VA	2K2A	2,4,6
475	CHEESE HOG	208 V	3	5398 VA	2K2A	7,9,11
482	HOT WELL	208 V	3	4960 VA	2K2	7,9,11
485	REFRIGERATED DISPLAY CASE	120 V	1	1536 VA	2K2A	13
700	PIZZA SCALE	120 V	1	500 VA		EXISTING
860	MENU BOARDS	120 V	1	500 VA	2K2A	8
900	SIGNAGE	120 V	1	500 VA	2K2A	10
901	SIGNAGE	120 V	1	500 VA	2K2A	12



② ELECTRIC DEMOLITION - SECOND FLOOR
 1/4" = 1'-0"



① ELECTRIC POWER - SECOND FLOOR
 1/4" = 1'-0"

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REVISIONS:

No.	Description	Date



PROJECT NAME:
NORTHERN KENTUCKY UNIVERSITY STUDENT UNION RENOVATION - SBARRO PIZZA



SHEET TITLE:
ELECTRIC POWER - SINGLE LINE DIAGRAM

ELECTRICAL

PROJECT NO.: 2019-003
DRAWN BY: RTT
CHECKED BY: DTJ
SCALE: 1/8" = 1'-0"
DATE: SEPTEMBER 2019
SHEET NUMBER:

EP601

ELECTRIC SINGLE LINE EQUIPMENT SCHEDULE

EQUIPMENT	PHASE	POWER BRANCH	EQUIPMENT TYPE	SUPPLY FROM	SPACE NUMBER	SPACE NAME	VOLTAGE	POLES	WIRES	DEMAND (kVA)	DEMAND (A)	MAINS RATING (A)	MAINS FRAME RATING (A)	MAINS TYPE	FEEDER ID	FEEDER	VD %	SPD	ULSE	GEC	ENCLOSURE TYPE	200% NEUTRAL	K-RATING	FAULT CURRENT (A)	SHORT CIRCUIT RATING (A)	NOTES
750 KVA TXFRMR	New Construction	NORMAL	750 kVA Transformer				480	3																		
PA	Existing	NORMAL	Switchboard	750 KVA TXFRMR			480	3	4	628.4 kVA	756 A	1200	1200	FUSED - BOLTED PRESSURE	XC-MANUAL	EXISTING FEEDER, (4) #4/0 15KV CABLES, (1) #4/0 AWG CU GND.	0.269				NEMA 1			25775		
DT3	Existing	NORMAL	Safety Switch	PA			480	3	4	292.4 kVA	352 A	450	450	MAIN LUGS ONLY	XC-310-4A	EXISTING FEEDER, (4) #500 KCMIL AL, (1) #2 AWG AL GND. IN 4" CONDUIT	0.86				NEMA 1			18076	EXISTING	
T3	Existing	NORMAL	300 kVA Transformer	DT3			480	3	3	292.4 kVA	352 A	450	450	MAIN LUGS ONLY	XC-310-3A	EXISTING FEEDER, (3) #500 KCMIL AL, (1) #2 AWG AL GND. IN 4" CONDUIT	0.93				NEMA 1			15006	EXISTING	
KD2	Existing	NORMAL	Distribution Panelboard	T3			208	3	4	219.5 kVA	609 A	800	800	THERMAL MAGNETIC	XC-620-4A	EXISTING FEEDER, (2) SETS OF (4) #500 KCMIL AL, (1) #2 AWG AL GND. IN 4" CONDUIT EACH	1.112				NEMA 1			14661	EXISTING	EXISTING EATON PRL4 DISTRIBUTION PANELBOARD
2K2	Existing	NORMAL	Branch Panelboard	KD2			208	3	4	58.4 kVA	162 A	200	200	MAIN LUGS ONLY	XC-155-4A	EXISTING FEEDER, (4) #3/0 AWG AL, (1) #2 AWG AL GND. IN 2" CONDUIT	2.49				NEMA 1			7256	EXISTING	EXISTING EATON PRL1A PANELBOARD
2K2A	New Construction	NORMAL	Branch Panelboard	KD2			208	3	4	24.1 kVA	67 A	200	200	MAIN LUGS ONLY	200-4A	(4) #250 KCMIL AL, (1) #4 AWG AL GND. IN 3" CONDUIT	1.466				NEMA 1			8953	22000	

GENERAL ELECTRICAL POWER DISTRIBUTION NOTES

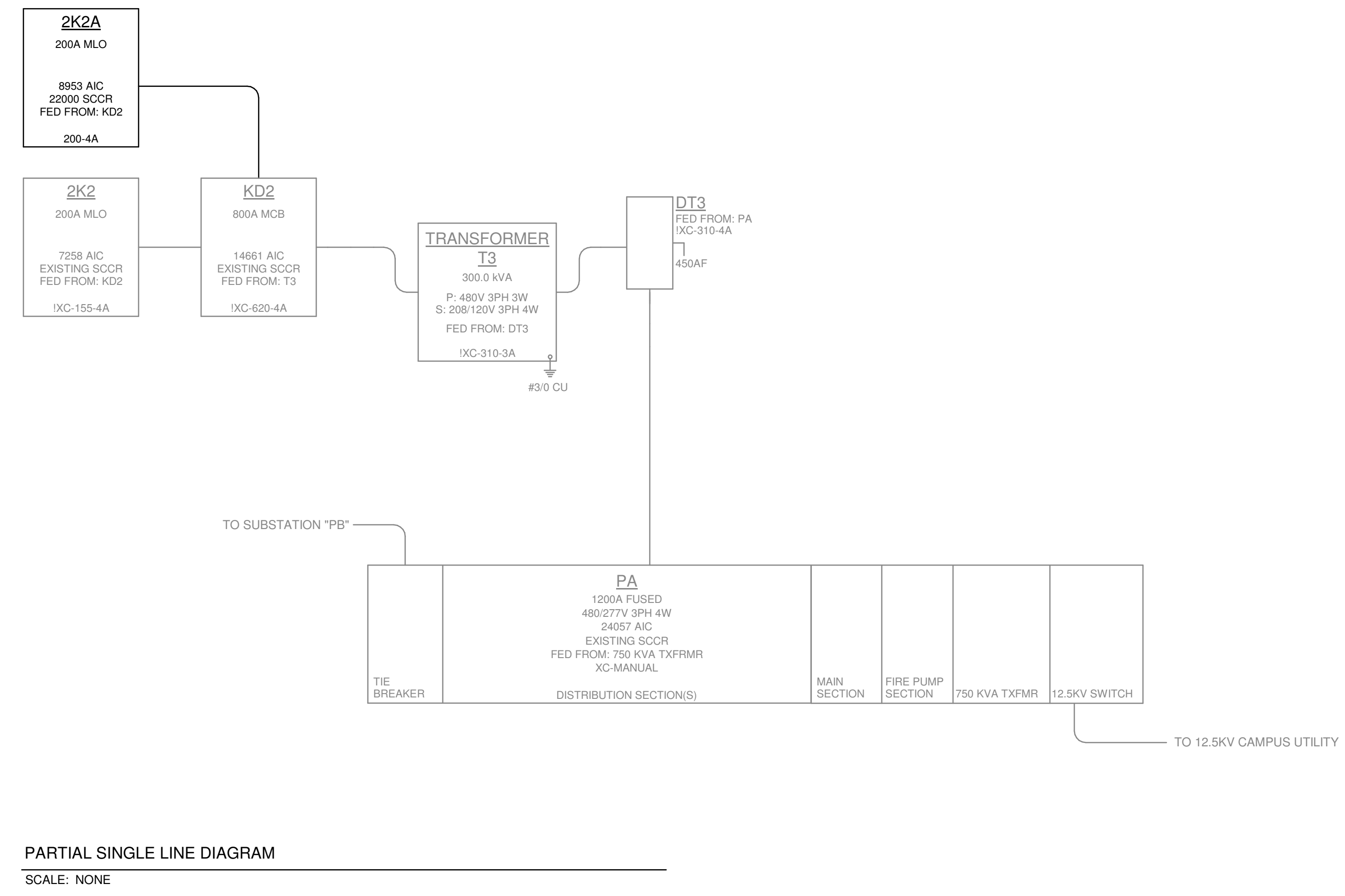
A. OVERCURRENT PROTECTION RATINGS: UNLESS INDICATED OTHERWISE, PROVIDE FULLY-RATED OR SERIES-RATED OVERCURRENT PROTECTION (OCP) AS REQUIRED TO COMPLY WITH ALL APPLICABLE REQUIREMENTS OF NFPA 70. PROVIDE EQUIPMENT AND OCP RATED TO MEET OR EXCEED THE AVAILABLE SERIES-RATED FAULT CURRENT AT THE RESPECTIVE NODE IN THE POWER DISTRIBUTION SYSTEM. SERIES-RATED BREAKERS/SYSTEMS ARE NOT PERMITTED WHERE PROHIBITED BY PREVAILING CODES AND STANDARDS, INCLUDING APPLICATIONS INVOLVING MOTOR CONTRIBUTION AS ADDRESSED IN ARTICLE 240.86(C) OF NFPA 70. FURNISH ELECTRONIC COPIES OF THE ELECTRICAL DOCUMENTS TO THE MANUFACTURER'S REPRESENTATIVE AND/OR EQUIPMENT SUPPLIER SO THAT PROPERLY RATED AND BRACED EQUIPMENT IS PROVIDED UNDER BASE BID. IF FAULT CURRENT VALUES ARE NOT INDICATED ON PLANS, ALSO PROVIDE FAULT CURRENT CALCULATIONS AND FURNISH RESULTS WITH EQUIPMENT SUBMITTALS.

B. POWER DISTRIBUTION EQUIPMENT LABELS: IN ADDITION TO LABELS REQUIRED WITHIN THE SPECIFICATIONS, INCLUDE CORRESPONDING MAXIMUM AIC (AVAILABLE INRUSH CURRENT) AND SHORT-CIRCUIT CURRENT RATING (SCCR) FOR EACH PIECE OF POWER DISTRIBUTION EQUIPMENT, ALONG WITH ARC FLASH LABELS COMPLIANT WITH ARTICLE 110.16 OF NFPA 70. ALSO INCLUDE CONDUCTOR COLOR CODING FOR THE BUILDING AND PHASE ROTATION AS APPLICABLE.

C. CONDUCTOR TERMINATIONS: IN CASES WHERE CONDUCTOR SIZES ARE TOO LARGE TO FIT INTO LUGS/TERMINALS, PROVIDE APPROPRIATE FACTORY LUG KITS FOR AFFECTED EQUIPMENT IF AVAILABLE. ELSEWHERE, PROVIDE INSULATED BUTT-SPLICERS OR EQUIVALENT METHOD, WITH TAILS SIZED TO FIT LUGS/TERMINALS. PROVIDE SPLICES IN SEPARATE BOXES IF REQUIRED BASED ON FIELD CONDITIONS, BOX SIZE LIMITATIONS, ETC. CONCEAL BOXES IN ACCESSIBLE OVERHEAD JOIST SPACES IN FINISHED REGULARLY OCCUPIED AREAS.

D. ALUMINUM CONDUCTORS: PROVIDE THE FOLLOWING SUPPLEMENTAL WORK FOR ALUMINUM CONDUCTOR ELECTRICAL EQUIPMENT CONNECTIONS, REGARDLESS OF WHO FURNISHES THE EQUIPMENT: REVIEW EQUIPMENT SUBMITTALS, INSTALLATION DOCUMENTS AND NAMEPLATES TO DETERMINE IF THERE ARE ANY WARRANTY OR UL LIMITATIONS REGARDING COPPER VERSUS ALUMINUM WIRING CONNECTIONS AT EQUIPMENT; IF THERE ARE ANY LIMITATIONS, PROVIDE LOCAL DISCONNECT AT OR NEAR EQUIPMENT (EXTERNAL TO THE EQUIPMENT) AND TERMINATE ALUMINUM CONDUCTORS TO THE LINE-SIDE LUGS/TERMINALS OF THE DISCONNECT SWITCH; PROVIDE COPPER CONDUCTORS FROM LOAD-SIDE LUGS/TERMINALS OF THE DISCONNECT SWITCH TO THE RESPECTIVE EQUIPMENT FACTORY DISCONNECT OR LUG/TERMINALS AS APPLICABLE; COORDINATE ALL RELATED WORK WITH ALL AFFECTED INSTALLERS.

E. BREAKER FRAME SIZES: AMPERE RATINGS INDICATED ON DRAWINGS FOR CIRCUIT BREAKERS ARE SHOWN TO DEFINE OVERCURRENT REQUIREMENTS/TRIP RATINGS. PROVIDE BREAKER FRAMES IN SIZES AND TYPES GREATER THAN THE DESIGNATED OVERCURRENT TRIP RATINGS WHERE NECESSARY TO ACHIEVE THE REQUIRED SELECTIVE COORDINATION, AND/OR AS NECESSARY FOR OTHER APPLICABLE REASONS.



REVISIONS:

No.	Description	Date



ARCHITECT:



CLIENT:



PROJECT NAME:

NORTHERN KENTUCKY UNIVERSITY STUDENT UNION RENOVATION - SBARRO PIZZA

STAMP:



SHEET TITLE:

ELECTRIC POWER - PANEL SCHEDULES

ELECTRICAL

PROJECT NO.: 2019-003
DRAWN BY: RTT
CHECKED BY: DTJ
SCALE:
DATE: SEPTEMBER 2019
SHEET NUMBER:

EP602

KLH PROJ. #21271.00

PANEL NAME: KD2		SUPPLY FROM: T3		MAINS RATING (A): 800		FAULT CURRENT (A): 14661		SURGE SUPPRESSION: ULSE:											
LOCATION: 208/120V 3PH 4W		MAINS TYPE: THERMAL MAGNETIC		SHORT CIRCUIT RATING (A): EXISTING		LUGS TYPE: EXISTING		ISOLATED GROUND: 200% NEUTRAL:											
FEEDER: EXISTING FEEDER, (2) SETS OF (4) #500 KCMIL AL, (1) #2 AWG AL GND, IN 4" CONDUIT...		FEEDER ID: IXC-620-4A		ENCLOSURE TYPE: NEMA 1		ISOLATED GROUND:													
CKT	CIRCUIT DESCRIPTION	VD%	AWG	GND	TRIP	FRAME	POLE	A	B	C	POLE	FRAME	TRIP	GND	AWG	VD%	CIRCUIT DESCRIPTION	CKT	
1								0.00	0.00								SPACE	2	
3	(EX) SPARE	--	--	--	100 A	--	3										SPACE	4	
5																	SPACE	6	
7	(EX)	--	--	--	20 A	--	1	1.00	0.00								SPACE	8	
9	SPACE	--	--	--	--	--	--										SPACE	10	
11	SPACE	--	--	--	--	--	--										SPACE	12	
13								4.90	0.00								SPACE	14	
15	(EX) 2K5	--	--	--	100 A	--	3		4.90	0.00							SPACE	16	
17																	SPACE	18	
19								17.30	32.37								SPACE	20	
21	(EX) 2K1	--	--	--	200 A	--	3		17.30	37.09							(EX) 2K2 NON-CONTINUOUS	22	
23																	SPACE	24	
25								20.37	15.40								SPACE	26	
27	(EX) 2K3	--	--	--	200 A	--	3		20.37	15.40							(EX) 2K4	28	
29																	SPACE	30	
31								0.00	8.62								SPACE	32	
33	(EX) HALTON LDS	--	--	--	200 A	--	3		0.00	6.99							SPACE	34	
35																	SPACE	36	
		TOTAL CONNECTED LOAD:		100.0 KVA		102.0 KVA		103.0 KVA											
LOAD CLASSIFICATION		CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		NOTES:		BREAKER QUANTITIES (NEW ONLY)									
Continuous		0 VA		0.00%		0 VA		EXISTING EATON PRL1A DISTRIBUTION PANELBOARD		(1) 200A / 3P									
Cooling		0 VA		0.00%		0 VA													
Heating		0 VA		0.00%		0 VA													
Kitchen Equipment		6496 VA		100.00%		6496 VA													
Lighting		92 VA		125.00%		114 VA													
Motor		11191 VA		112.94%		12639 VA													
Non-Continuous		8276 VA		100.00%		8276 VA													
Receptacle		1680 VA		100.00%		1680 VA													
		PANEL TOTALS																	
EXISTING CONNECTED LOAD:		277310 VA																	
EXISTING LOAD DEMAND FACTOR:		75.00%																	
ADDED CONNECTED LOAD:		27735 VA																	
DEMOLISHED DEMAND:		14160 VA																	
DEMAND CALCULATION NOTES:		75% EXISTING, LESS DEMOLISHED DEMAND																	
TOTAL DEMAND:		219488 VA																	
TOTAL DEMAND AMPS:		609 A																	

PANEL NAME: 2K2A		SUPPLY FROM: KD2		MAINS RATING (A): 200		FAULT CURRENT (A): 8953		SURGE SUPPRESSION: ULSE:											
LOCATION: 208/120V 3PH 4W		MAINS TYPE: MAIN LUGS ONLY		SHORT CIRCUIT RATING (A): 22000		LUGS TYPE: EXISTING		ISOLATED GROUND: 200% NEUTRAL:											
FEEDER: (4) #250 KCMIL AL, (1) #4 AWG AL GND, IN 3" CONDUIT		FEEDER ID: 200-4A		ENCLOSURE TYPE: NEMA 1		ISOLATED GROUND:													
CKT	CIRCUIT DESCRIPTION	VD%	AWG	GND	TRIP	FRAME	POLE	A	B	C	POLE	FRAME	TRIP	GND	AWG	VD%	CIRCUIT DESCRIPTION	CKT	
1								2.76	1.93										
3	(G) 410 NON-CONTINUOUS	2.584	#10	#10	30 A	30 A	3		2.76	1.93							(G) 470 MOTOR	2	
5																			
7								1.80	0.50										
9	(G) 475 MOTOR	2.188	#12	#12	20 A	20 A	3		1.80	0.50							2.006 860 MENU BOARDS	6	
11																			
13	(G) 475 MOTOR	2.188	#12	#12	20 A	20 A	3		1.80	0.50							2.531 900 SIGNAGE	8	
15																			
17																			
19	485 KITCHEN EQUIPMENT	3.586	#12	#12	20 A	20 A	1	1.54	0.09								2.248 901 SIGNAGE	10	
21																			
23																			
25																			
27																			
29																			
31																			
33																			
35																			
		TOTAL CONNECTED LOAD:		8.6 KVA		7.0 KVA		7.0 KVA											
LOAD CLASSIFICATION		CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		NOTES:		BREAKER QUANTITIES (NEW ONLY)									
Kitchen Equipment		1536 VA		100.00%		1536 VA				(5) 20A / 1P, (1) 20A / 3P (G), (1) 25A / 3P (G), (1) 30A / 3P (G)									
Lighting		92 VA		125.00%		114 VA													
Motor		11191 VA		112.94%		12639 VA													
Non-Continuous		8276 VA		100.00%		8276 VA													
Receptacle		1500 VA		100.00%		1500 VA													
		PANEL TOTALS																	
TOTAL CONNECTED LOAD:		22.6 KVA																	
DEMAND CALCULATION NOTES:		70% EXISTING, LESS DEMOLISHED DEMAND																	
TOTAL DEMAND:		24.1 KVA																	
TOTAL DEMAND AMPS:		67 A																	

PANEL NAME: 2K2		SUPPLY FROM: KD2		MAINS RATING (A): 200		FAULT CURRENT (A): 7258		SURGE SUPPRESSION: ULSE:											
LOCATION: 208/120V 3PH 4W		MAINS TYPE: MAIN LUGS ONLY		SHORT CIRCUIT RATING (A): EXISTING		LUGS TYPE: EXISTING		ISOLATED GROUND: 200% NEUTRAL:											
FEEDER: EXISTING FEEDER, (4) #30 AWG AL, (1) #2 AWG AL GND, IN 2" CONDUIT		FEEDER ID: IXC-155-4A		ENCLOSURE TYPE: NEMA 1		ISOLATED GROUND:													
CKT	CIRCUIT DESCRIPTION	VD%	AWG	GND	TRIP	FRAME	POLE	A	B	C	POLE	FRAME	TRIP	GND	AWG	VD%	CIRCUIT DESCRIPTION	CKT	
1								0.00	0.00										
3	(EX) SPARE	--	--	--	50 A	--	3		0.00	5.50							(EX) SHUNT TRIP	2	
5																			
7																			
9	(G) 482 KITCHEN EQUIPMENT	3.568	#12	#12	20 A	20 A	3	1.65	5.50								(EX) COMFORT SERVING COUNTER	4	
11																			
13	(#) CASH REGISTER SBARRO	2.614	#12	#12	20 A	20 A	1	0.18	0.50								(EX) SHUNT TRIP	6	
15	(EX) SODA MACHINE	--	--	--	20 A	--	1	0.50	2.20								(EX) HOOD LIGHTS	8	
17	(EX) DELI CASE	--	--	--	30 A	--	1			2.00	2.20						(EX) CASH REGISTER	10	
19	(EX) HEATED CABINET	--	--	--	20 A	--	1	0.50	2.20								(EX) CARVERY SERVING COUNTER	12	
21	(EX) PIZZA TABLES	--	--	--	20 A	--	1	0.50	0.00								(EX) SHUNT TRIP	14	
23	(EX) DOUGH PRESS	--	--	--	20 A	--	1	0.50	0.00								(EX) INDUCTION COOK HOOD	16	
25	(EX) OUTLETS ROOM 200P	--	--	--	20 A	--	1	0.50	0.00								(EX) SHUNT TRIP	18	
27	(EX) REFRIGERATOR	--	--	--	20 A	--	1	0.50	0.50								(EX) SHUNT TRIP	20	
29	(EX) CONVEYOR OVEN	--	--	--	20 A	--	1	0.50	0.00								(EX) ROTISSERIE HOOD	22	
31	(EX) SHUNT TRIP	--	--	--	20 A	--	1	0.00	0.50								(EX) SHUNT TRIP	24	
33	(EX) SODA MACHINE	--	--	--	20 A	--	1	0.50	0.50								(EX) COOKING SUITE HOOD	26	
35	(EX) PIZZA OVEN	--	--	--	20 A	--	1	0.50	0.50								(EX) COMFORT CARVERY/CASH REGISTER	28	
37	(EX) REFRIGERATOR	--	--	--	20 A	--	1	0.50	0.50								(EX) OUTLETS ABOVE COUNTER	30	
39																			
41	(EX) PROOFER	--	--	--	30 A	--	2	2.40	0.50								(EX) OUTLETS KITCHEN 240K	32	
43																			
45	(EX) DISPOSAL	--	--	--	20 A	--	3	1.33	0.50								(EX) UNDER COUNTER REFRIGERATOR	34	
47																			
49																			
51	(EX) CHINESE WARMER	--	--	--	30 A														

REVISIONS:

No.	Description	Date

CONSULTANTS:
KLH ENGINEERS

ARCHITECT:
nec̄o | architecture
310 Old Vine Street
Suite 100A
Lexington, KY 40507
859-338-4835

CLIENT:
NKU
NORTHERN KENTUCKY UNIVERSITY

PROJECT NAME:
NORTHERN KENTUCKY UNIVERSITY STUDENT UNION RENOVATION - SBARRO PIZZA

STAMP:
MICHAEL V. ALBANESE
2007
09/19/19

SHEET TITLE:
PLUMBING - SECOND FLOOR PLAN

PLUMBING
PROJECT NO.: 2019-003
DRAWN BY: DMR
CHECKED BY: DJT
SCALE: As indicated
DATE: SEPTEMBER 2019
SHEET NUMBER:

P-100
KLH PROJ. #21271.00

KEYED NOTES

- P01 EXISTING SINK TO REMAIN.
- P02 EXISTING FLOOR SINK TO REMAIN.
- P03 EXISTING VENT PIPING SERVING ADJACENT FLOOR SINK TO REMAIN.
- P04 EXISTING COLD WATER LINE THROUGH EXISTING FLOOR TO REMAIN. CONNECT NEW COLD WATER LINE TO EXISTING COLD WATER LINE TO SERVE NEW HOT WELL.

KEYED NOTES

- P05 NEW GREASE WASTE PIPING FROM NEW HOT WELL TO DRAIN INDIRECT TO EXISTING FLOOR SINK.
- P06 NEW GREASE WASTE PIPING FROM NEW COLD FOOD WELL TO DRAIN INDIRECT TO EXISTING FLOOR SINK.

KEYED NOTES

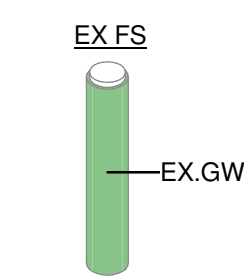
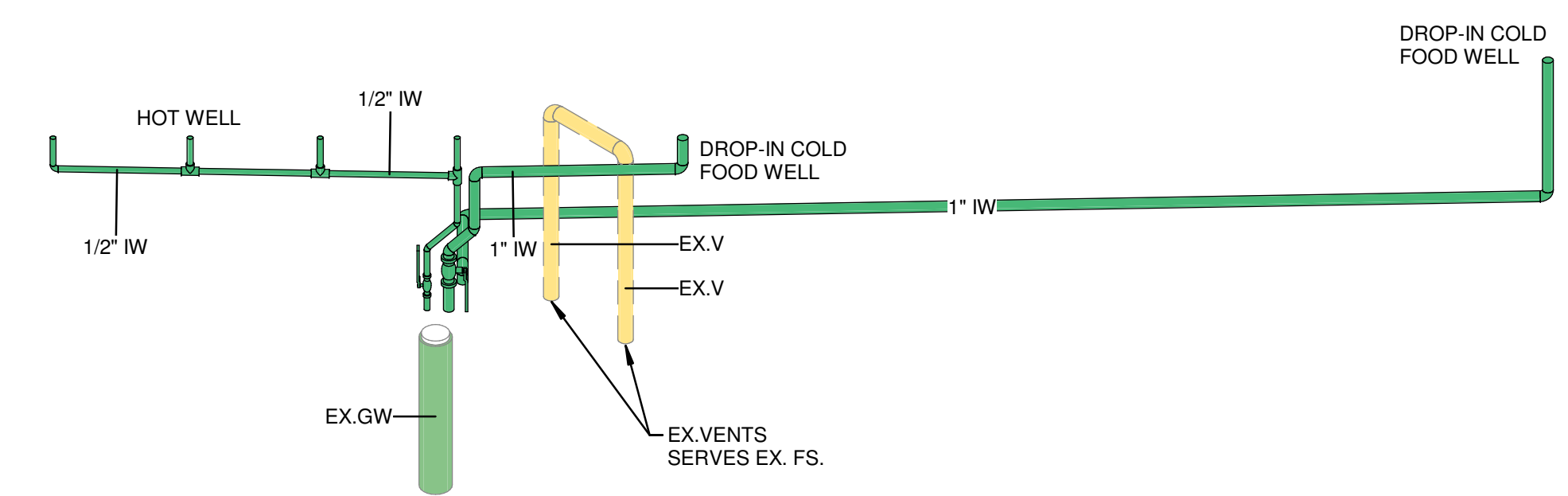
- P07 EXISTING PIZZA OVEN WITH EXISTING NATURAL GAS CONNECTION AND LOAD TO REMAIN.
- P08 PROVIDE ASSE 1032 RATED DUAL CHECK BACKFLOW PREVENTER TO SERVE COLD WATER LINE TO NEW HOT WELL (482).

ABBREVIATIONS

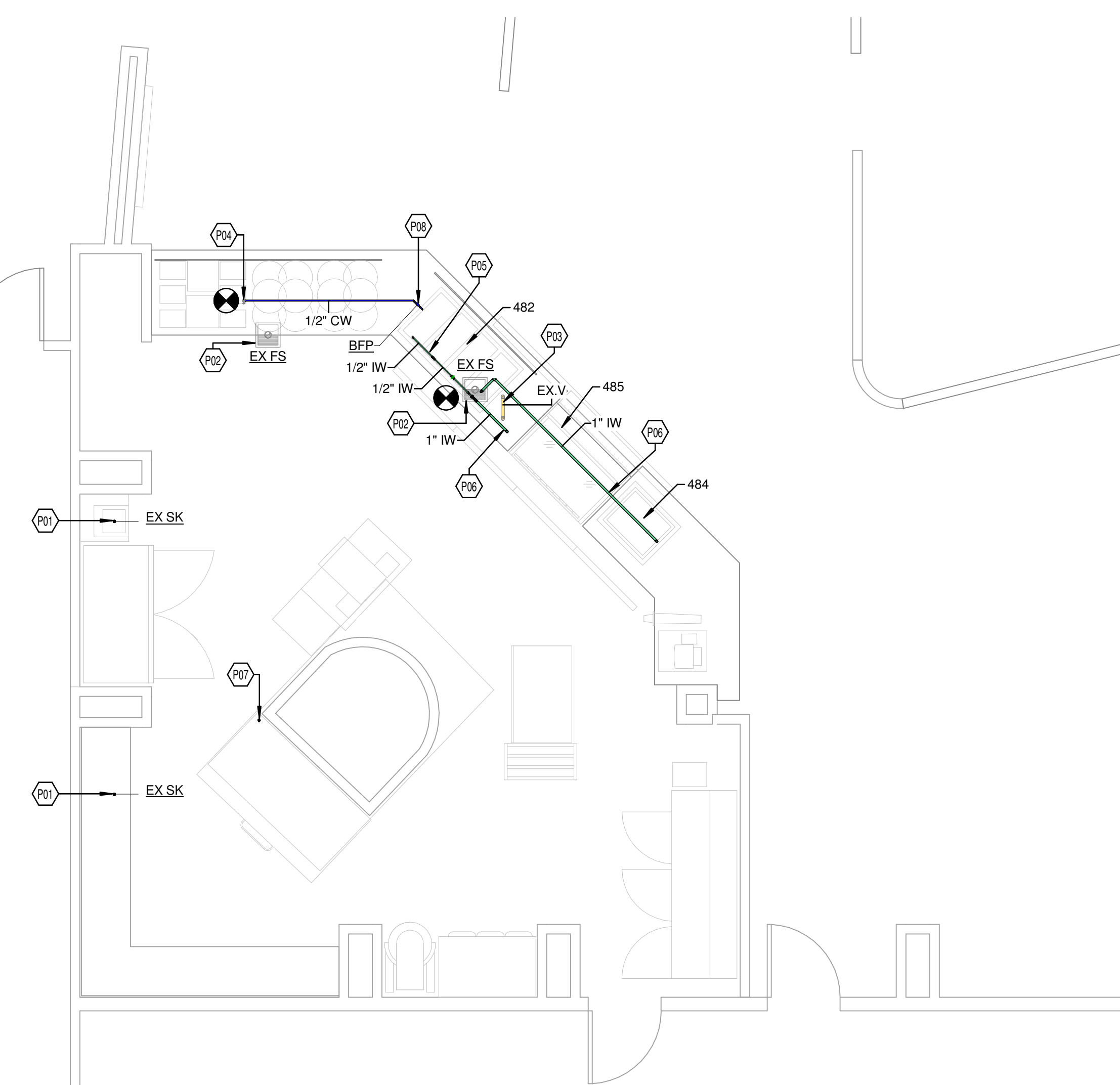
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS
BFP	BACKFLOW PREVENTER
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CO	CLEAN OUT
CPVC	CHLORINATED POLYVINYL CHLORIDE
CW	COLD WATER (POTABLE)
EC	ELECTRICAL CONTRACTOR
EX	EXISTING
F	FAHRENHEIT
FCO	FLOOR CLEAN OUT
FLA	FULL LOAD AMPERES
FS	FLOOR SINK
FT	FEET
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GPR	GAS PRESSURE REGULATOR
GW	GREASE WASTE
GWJ	GREASE WASTE INTERCEPTOR
HDPE	HIGH DENSITY POLYETHYLENE
HW	HOT WATER
IN WC	INCH WATER COLUMN
KW	KILOWATT
KWH	KILOWATT HOUR
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MBH	1000 BTUH
MIN	MINIMUM
MOC	MAXIMUM OVERCURRENT PROTECTION
NG	NATURAL GAS
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	OVER CURRENT PROTECTION
PC	PLUMBING CONTRACTOR
PRV	PRESSURE REGULATING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH - ABSOLUTE
PSIG	POUNDS PER SQUARE INCH - GAGE
PVC	POLYVINYL CHLORIDE
S	SANITARY
SK	SINK
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
UR	URINAL

PLUMBING LEGEND

SYMBOL	DESCRIPTION
PLAN-VIEW LINE TYPES	
	WORK SHOWN FADED INDICATES EXISTING WORK TO REMAIN OR NEW WORK BY OTHERS AS APPLICABLE
	WORK SHOWN BOLD-DASHED INDICATES SELECTIVE DEMOLITION WORK
	WORK SHOWN BOLD-CONTINUOUS INDICATES NEW WORK
	DIRECTION OF FLOW
PIPING LINE TYPES	
	SANITARY VENT PIPING
	INDIRECT WASTE PIPING
	GREASE WASTE PIPING
	DOMESTIC COLD WATER PIPING
PLUMBING ACCESSORIES & VALVES	
	FLOOR SINK
	CONTROL VALVE, SHUT-OFF VALVE
PLUMBING SYMBOLS	
	PIPE UP
	PIPE DOWN
	PIPE TEE DOWN
	PIPE TEE UP
	CONNECT TO EXISTING (FIELD VERIFY EXISTING UTILITY SERVICE TYPE, PRIOR TO MAKING CONNECTION)



2 PLUMBING - ISOMETRIC - SANITARY AND VENT



1 PLUMBING - SECOND FLOOR - OVERALL PLAN
1/4" = 1'-0"

DIVISION 22 - PLUMBING SPECIFICATION

SECTION 22 05 00.00 - COMMON WORK RESULTS FOR PLUMBING

GENERAL

The General Provisions of the Contract including the General and Supplemental Conditions and General Requirements apply to the work in this section. Before submitting a bid, examine documents of all other trades, visit the site and get acquainted with all conditions that may in any way affect the execution of this contract. Contractor shall obtain and pay for all permits, certificates of inspection and approvals required. Submittal of a bid indicates that the contractor has examined the drawings, specifications, and had an opportunity to visit the site to be able to provide a comprehensive complete bid to include providing all materials, labor, tools, and equipment required to provide complete plumbing systems as outlined in Division-22. Clearly state all full load amps (FLA), voltages and model numbers on all submittals. Include rated capacities, operating characteristics, electrical characteristics, and furnished specialties and accessories. Provide wiring diagrams: For power, signal, and control wiring.

APPLICABLE STANDARDS

The installation of all plumbing work shall conform to all the following, but not limited, applicable local and municipal utility standards, rules and regulations, plumbing codes and statutes having jurisdiction. All plumbing fixtures, equipment, accessories, and appurtenances shall be NSF/ANSI 61-372 compliant. Kentucky Building Code; Kentucky Plumbing Code; American Society for Test Materials (ASTM); National Sanitation Foundation (NSF); American Standards Association (ASA); Underwriters Laboratories (UL); National Fire Protection Association (NFPA); National Electric Code (NEC);

PLANS AND SPECIFICATIONS

Obtain the latest design and construction standards document(s) from the owner. Comply with all owner-specific requirements in addition to requirements set forth in these specifications and accompanying drawings. Should there be a conflict, the owner's standards shall take precedence, unless prevailing codes and regulations mandate otherwise. The drawings that accompany these specifications are diagrammatic. Whenever possible make use of submittal data and verify all dimensions on site. Provide additional fittings as required by site conditions and codes at no additional cost to conform to the structure, avoid obstructions, provide required service clearances and preserve headroom. Do not scale from drawings, all measurements should be taken in the field.

EXISTING CONDITIONS

Where new plumbing systems are required to be connected to existing plumbing systems, provide all camera scoping and dye testing necessary to verify the exact location, size, invert elevation, pressure, pipe integrity, and system type to ensure a proper connection is executed. The contractor shall notify the engineer immediately if it is found a proper connection cannot be executed.

CUTTING, PATCHING AND DEMOLITION

The contractor shall be responsible for damages to the grounds, walks, road, building, piping systems, electrical systems, and their equipment and contents, caused by leaks in the piping systems being installed or having been installed by him. The contractor shall repair at his expense all damaged so caused. All repair work shall be done as directed by and in such manner as satisfactory to the architect. Owner reserves the right to make emergency repairs as required to keep equipment in operation without voiding the contractor's guarantee bond nor relieving the contractor of his responsibilities during the bonding period. Cut and drill all openings in roofs, walls, and floors required for the installation. Neatly patch all openings cut. Hold cutting and patching to a minimum by arranging with other contractors for all sleeves and openings before construction is started. When drilling/cutting concrete slabs, utilize ground penetrating radar (GPR) and/or X-ray scanning equipment to verify the location is free from obstructions, including but not limited to structural rebar/strands/tendons, electrical conduit/wiring, and/or piping/ductwork.

EXCAVATION AND BACKFILL

Perform all excavation and backfilling required for this work. Contractor shall consult with utility company prior to beginning excavation. At a minimum, all piping shall be laid on a bed of sand, 6" deep, well tamped into place and properly graded to permit the pipe to have an even bearing throughout its entire length. Sand shall be installed around the piping in 6" lifts to a point 6" above the piping.

INTERRUPTION OF EXISTING SERVICES

Interruption of Existing Plumbing Services: Do not interrupt service to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary service according to requirements indicated: Notify, Architect, Construction Manager, and Owner no fewer than seven days in advance of proposed interruption of service. Do not proceed with interruption of service without Architect's written permission.

WARRANTY

This contractor shall warrant that all work under this section shall be free of defective work, materials and parts for a period of one year after acceptance of the work and shall repair, revise, and replace, at no cost to the owner, any such defects occurring within the warranty period. Use of Electronic Drawings from the Owner's Design Team If expressly permitted by the Owner and the terms of the Contract, editable electronic drawings may be made available for the creation of shop and as-built drawings upon request. Drawings will be made available at the discretion of the Engineer. "Request Drawings" form can be accessed, filled out and submitted at <http://www.khengers.com> (right hand side of page - Contractor Resources). Direct access to this form can be found here: <http://files.khengers.com/requestdrawings.html>

22 05 03.00 - SUBMITTALS FOR PLUMBING

Provide submittals in accordance with the Contract Documents. In addition to Division 01, the Contractor is advised to review and comply with the requirements articulated within each Division and within each section of that Division. Some Divisions may include a division-specific "Submittal Requirements for ..." section. Where this section exists, it

articulates additional requirements for submittals that apply to the work of that Division. The following requirements help to identify, track and keep the project organized for all parties involved. They are necessary to ensure a timely turnaround and an appropriate technical review. Submittals that do not conform to the administrative requirements are rejected and returned, without technical review. Supply submittals for each section: Submittals shall be supplied on a section-by-section and type-by-type basis. For example, independent product data submittals shall be furnished for each section that requires product data submittals. Independent shop drawing submittals shall be furnished for each section that requires shop drawings. Separate PDF file packages shall be supplied for each section, for each submittal type. Each PDF shall represent a single standalone submittal. Include a transmittal: Transmittals shall enumerate each submittal for each section of each type and iteration. Include cover sheet / title page: The cover sheet shall include the information identified in the contract documents. It shall be included as the first page of each electronic and/or hardcopy document-based submittal. An editable and printable PDF form created with editable fields and specification compliant appearance is available from KLH upon request. It is also downloadable from the KLH website at www.khengers.com. Include an index: The index shall enumerate the contents of the submittal. Include checklists: Where checklists are included with the specifications, complete and include them within the appropriate submittal. Supply complete submittals: Complete submittals of each type are required. Partial submittals will be rejected. Where a section requires a product data submittal, all product data for that section shall be supplied together, at one time, as one complete submittal. When resubmittal is required (e.g. Revise and Resubmit) the revised submittal shall be more complete, more accurate and more contract-compliant than its rejected predecessor. The submittal number (for each section and type) shall increment for each subsequent submittal (00 - Original submission, 01 - First Resubmission, 02 - Second Resubmission, etc...). Resubmittals shall include a copy of the reviewers comments supplied with the prior submittal rejection and shall be amended with a description of the specific action taken to comply with the reviewer's comments. The absence of this on resubmittal is cause for rejection. Name electronic files to match the submittal ID and cover sheet: The electronic file name of submittals shall match the submittal ID included on the submittals cover page. For example: The original/first product data submittal for Section 220523 would be labeled as "220523.00-PD-00"; the first resubmittal of same shall be labeled "220523.00-PD-01". The original/first shop drawings submittal file for the same section would be labeled "220523.00-SD-00"; the first resubmittal of same shall be labeled "220523.00-SD-01". If expressly permitted by the Owner and the terms of the Contract, editable electronic drawings may be made available for the creation of shop and as-built drawings upon request. Drawings will be made available at the discretion of the Engineer. "Request Drawings" form can be accessed, filled out and submitted at <http://www.khengers.com> (right hand side of page - Contractor Resources). Direct access to this form can be found here: <http://files.khengers.com/requestdrawings.html>

22 05 23.00 - GENERAL DUTY VALVES

SUBMITTAL REQUIREMENTS
Product Data: For each type of product indicated.

GENERAL
Provide stops or isolation valves on domestic water supplies to isolate hot and cold water to each fixture, including all equipment and equipment provided by others. Access shall be provided to all valves. Provide fire-rated access panel(s) to maintain full access to concealed valves. Ball valves - 2 inch and smaller: Lead-Free, 600 psi CWP, 100 psi at 300°F, cast bronze body, blowout-proof stem. Butterfly Valves - 3" and up: Ductile Iron Butterfly Valve, 200 WOG, Lug Body, Lever Operator. Approved Manufacturers: Milwaukee Valve, NIBCO, and Watts Water Technologies Co. Valves to conform to: MSS-SP-110 Type I/ MSS-SP-67 Type I, NSF/ANSI -61/372.

CHECK VALVES
Check valves to be same size as system piping it accompanies. Lead-free, bronze body, 250 WOG, non-shock, spring check valve. Conforms to the following standard(s): MSS-SP-80 I, NSF/ANSI -61/372

22 05 29.00 - HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT

GENERAL
Provide hangers, supports, clamps, attachments, and structural steel members where required to support piping and equipment from building structure. Support of piping from the decking or equipment is prohibited. Arrange for grouping of parallel runs of horizontal piping supported together on field-fabricated, heavy-duty trapeze hangers where possible. Trapeze hangers shall conform to: MSS SP-69, Type 59. Hangers shall be sized to allow insulation to pass through unobstructed. Hangers and supports shall be placed at all changes in direction, valves and equipment. The maximum horizontal spacing of cast-iron pipe hangers can be 10' where 10-foot lengths of pipe are installed. Piping shall also be supported at each change in direction, valves and equipment. Clevis-type hangers shall and supports shall conform to: MSS SP-58, Type 1-58.

22 05 53.00 - IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT

PIPING
Provide self-adhesive pipe labels with white background and black lettering, contact type with permanent adhesive backing. Include identification of piping service using same designations or abbreviations as used on the drawings and an arrow indicating flow direction.

EQUIPMENT
Provide self-adhesive plastic equipment labels with white background and black lettering, contact type with permanent adhesive backing, 160 degree F temperature. Include equipment's drawing designation and specification section number where equipment is specified.

22 07 19.00 - PLUMBING SYSTEM INSULATION

GENERAL
Insulation shall be listed and labeled per ASTM E 84 for plenum installations employing slip on techniques. Provide insulation materials, accessories, and finishes with smooth, straight, and even surfaces; free of voids throughout the length of piping including fittings, valves, and specialties. Surface Preparation: Clean and dry surfaces to receive insulation. Remove materials that will adversely affect insulation application.

PIPING SYSTEMS REQUIRING INSULATION
Insulate domestic cold water piping, associated fittings and valves with flexible elastomeric 1/2" wall thickness insulation. Insulate domestic hot water piping, associated fittings and valves with 1" thick flexible elastomeric, 1-1/2" thick fiberglass insulation or per local energy code, whichever greater. Insulate waste piping above ceilings that receive condensate with 1/2" wall thickness insulation. Insulate exposed sanitary drains, domestic water, domestic hot water, and stops for plumbing fixtures for people with disabilities.

FLEXIBLE ELASTOMERIC INSULATION
Closed-cell, sponge- or expanded-rubber materials. Comply with ASTM C 534, Type I for tubular materials and Type II for sheet materials. Adhesives, Sealers, and Protective Finishes: As recommended by insulation manufacturer for applications indicated. Manufacturers: Subject to compliance with requirements, available products that may be incorporated into the work include, and are limited to, the following: Aeroflex USA, Inc.; Aerocel, Armacell LLC; AP Amalfex, K-Flex USA;

FIBERGLASS INSULATION
Fiberglass piping insulation: ASTM C 547, Class 1 Encase pipe fittings insulation with one-piece pre-molded PVC fitting covers. Vapor Barrier Material: Paper-backed aluminum foil, except as otherwise indicated, strength and permeability rating equivalent to adjoining pipe insulation jacketing. Staples, Bands, Wires, and Cement: As recommended by insulation manufacturer for applications indicated. Adhesives, Sealers, and Protective Finishes: As recommended by insulation manufacturer for applications indicated. Manufacturers: Subject to compliance with requirements, available products that may be incorporated into the work include, and are limited to, the following: Armstrong World Industries, Inc., Owens-Corning Fiberglass Corp., Johns Manville.

ADHESIVES
Materials shall be compatible with insulation materials, jackets, and substrates and for bonding insulation to itself and to surfaces to be insulated, unless otherwise indicated. Insulation for handicap accessible fixtures All handicap lavatory p-trap and angle stop assemblies shall be insulated with trap wrap protective kit manufactured by Profo model PF202WH or equal. Abrasion resistant, anti-microbial vinyl exterior cover shall be smooth. For traps, the insulation shall have a cleanout nut cap to allow service to the trap without disassembly. For stops, the insulation shall have a lock lid that prevents tampering but allows access without removal of the insulation. Fasteners shall remain substantially out of sight. Manufacturers: subject to compliance with requirements: Profo, Truebro, Plumberex

22 11 16.00 - DOMESTIC WATER PIPING

SUBMITTAL REQUIREMENTS
Product Data: For each type of product indicated.

GENERAL
Install piping concealed from view unless noted otherwise, free of sags and bends. Do not enclose, cover, or put piping into operation until it has been inspected and approved by authorities having jurisdiction. Clean and disinfect potable domestic water piping using approved procedures by authorities having jurisdiction. Install at right angles; diagonal runs are prohibited unless otherwise shown. Install piping above accessible ceilings to allow sufficient space for ceiling panel removal. Coordinate all piping with all other trades. Provide water pressure regulators where necessary to limit the incoming water pressure to 80 psi inside the building.

DOMESTIC WATER PIPING ABOVE GROUND
Hard copper tube, ASTM B 88, Type L; wrought-copper, solder-joint fittings; and soldered joints. Solder Filler Metals: ASTM B 32, lead-free alloys. Flux: ASTM B 813, water flushable. Type "L"; copper pressure-seal joint; and pressure-seal joint systems.

CATHODIC PROTECTION
Provide dielectric insulation at points where copper or brass pipe comes in contact with ferrous piping, reinforcing steel or other dissimilar metal in structure.

22 11 19.00 - DOMESTIC WATER PIPING SPECIALTIES

SUBMITTAL REQUIREMENTS
Product Data: For each type of product indicated. Manufacturers: Subject to compliance with requirements, available products that may be incorporated into the work include, and are limited to, the following: Conbraco Industries, Inc., Watts Water Technologies Co., Zum Industries, LLC., Thermomatech, Acom Engineering Co., and Caleffi, N. America., MIFAB, Inc., Precision Plumbing Products, Inc., Sioux Chief Manufacturing Company, Inc., Jay R. Smith Mfg. Co., Provent Systems, Rector Seal.

BACKFLOW PREVENTER
Provide a continuous pressure dual check valve backflow preventer with stainless steel body, threaded connections and complies with ASSE 1032.

WATER HAMMER ARRESTERS
Provide water-hammer arresters in water piping according to PDI-WH 201 Standard: ASSE 1010 or PDI-WH 201. Type: Metal bellows or copper tube with piston. Size: ASSE 1010, sizes AA and A through F, or PDI-WH 201, sizes A through F.

22 16 13.00 - NATURAL GAS PIPING SYSTEMS

SUBMITTAL REQUIREMENTS
Product Data: For each type of product indicated.

GENERAL

Insulation shall be listed and labeled per ASTM E 84 for plenum installations employing slip on techniques. Provide insulation materials, accessories, and finishes with smooth, straight, and even surfaces; free of voids throughout the length of piping including fittings, valves, and specialties. Surface Preparation: Clean and dry surfaces to receive insulation. Remove materials that will adversely affect insulation application.

PIPING SYSTEMS REQUIRING INSULATION
Insulate domestic cold water piping, associated fittings and valves with flexible elastomeric 1/2" wall thickness insulation. Insulate domestic hot water piping, associated fittings and valves with 1" thick flexible elastomeric, 1-1/2" thick fiberglass insulation or per local energy code, whichever greater. Insulate waste piping above ceilings that receive condensate with 1/2" wall thickness insulation. Insulate exposed sanitary drains, domestic water, domestic hot water, and stops for plumbing fixtures for people with disabilities.

FLEXIBLE ELASTOMERIC INSULATION
Closed-cell, sponge- or expanded-rubber materials. Comply with ASTM C 534, Type I for tubular materials and Type II for sheet materials. Adhesives, Sealers, and Protective Finishes: As recommended by insulation manufacturer for applications indicated. Manufacturers: Subject to compliance with requirements, available products that may be incorporated into the work include, and are limited to, the following: Aeroflex USA, Inc.; Aerocel, Armacell LLC; AP Amalfex, K-Flex USA;

FIBERGLASS INSULATION
Fiberglass piping insulation: ASTM C 547, Class 1 Encase pipe fittings insulation with one-piece pre-molded PVC fitting covers. Vapor Barrier Material: Paper-backed aluminum foil, except as otherwise indicated, strength and permeability rating equivalent to adjoining pipe insulation jacketing. Staples, Bands, Wires, and Cement: As recommended by insulation manufacturer for applications indicated. Adhesives, Sealers, and Protective Finishes: As recommended by insulation manufacturer for applications indicated. Manufacturers: Subject to compliance with requirements, available products that may be incorporated into the work include, and are limited to, the following: Armstrong World Industries, Inc., Owens-Corning Fiberglass Corp., Johns Manville.

ADHESIVES
Materials shall be compatible with insulation materials, jackets, and substrates and for bonding insulation to itself and to surfaces to be insulated, unless otherwise indicated. Insulation for handicap accessible fixtures All handicap lavatory p-trap and angle stop assemblies shall be insulated with trap wrap protective kit manufactured by Profo model PF202WH or equal. Abrasion resistant, anti-microbial vinyl exterior cover shall be smooth. For traps, the insulation shall have a cleanout nut cap to allow service to the trap without disassembly. For stops, the insulation shall have a lock lid that prevents tampering but allows access without removal of the insulation. Fasteners shall remain substantially out of sight. Manufacturers: subject to compliance with requirements: Profo, Truebro, Plumberex

22 11 16.00 - DOMESTIC WATER PIPING

SUBMITTAL REQUIREMENTS
Product Data: For each type of product indicated.

GENERAL
Install piping concealed from view unless noted otherwise, free of sags and bends. Do not enclose, cover, or put piping into operation until it has been inspected and approved by authorities having jurisdiction. Clean and disinfect potable domestic water piping using approved procedures by authorities having jurisdiction. Install at right angles; diagonal runs are prohibited unless otherwise shown. Install piping above accessible ceilings to allow sufficient space for ceiling panel removal. Coordinate all piping with all other trades. Provide water pressure regulators where necessary to limit the incoming water pressure to 80 psi inside the building.

DOMESTIC WATER PIPING ABOVE GROUND
Hard copper tube, ASTM B 88, Type L; wrought-copper, solder-joint fittings; and soldered joints. Solder Filler Metals: ASTM B 32, lead-free alloys. Flux: ASTM B 813, water flushable. Type "L"; copper pressure-seal joint; and pressure-seal joint systems.

CATHODIC PROTECTION
Provide dielectric insulation at points where copper or brass pipe comes in contact with ferrous piping, reinforcing steel or other dissimilar metal in structure.

22 11 19.00 - DOMESTIC WATER PIPING SPECIALTIES

SUBMITTAL REQUIREMENTS
Product Data: For each type of product indicated. Manufacturers: Subject to compliance with requirements, available products that may be incorporated into the work include, and are limited to, the following: Conbraco Industries, Inc., Watts Water Technologies Co., Zum Industries, LLC., Thermomatech, Acom Engineering Co., and Caleffi, N. America., MIFAB, Inc., Precision Plumbing Products, Inc., Sioux Chief Manufacturing Company, Inc., Jay R. Smith Mfg. Co., Provent Systems, Rector Seal.

BACKFLOW PREVENTER
Provide a continuous pressure dual check valve backflow preventer with stainless steel body, threaded connections and complies with ASSE 1032.

WATER HAMMER ARRESTERS
Provide water-hammer arresters in water piping according to PDI-WH 201 Standard: ASSE 1010 or PDI-WH 201. Type: Metal bellows or copper tube with piston. Size: ASSE 1010, sizes AA and A through F, or PDI-WH 201, sizes A through F.

22 16 13.00 - NATURAL GAS PIPING SYSTEMS

SUBMITTAL REQUIREMENTS
Product Data: For each type of product indicated.

GENERAL

Plumbing contractor shall be responsible for installing gas piping run-outs to all gas-fired equipment, including equipment supplied by the HVAC and electric contractors. Piping shall be installed full-size (as indicated on the drawings) to each unit's gas inlet connection, burner, regulator, etc. Plumbing subcontractor shall provide gas cock and make final connections. Connections to each gas-fired equipment item shall include a drip leg and shutoff gas cock. Comply with equipment manufacturer's instructions. For connections to gas-fired rooftop equipment, plumbing contractor shall be responsible for the roof penetration and shall install the gas piping through the roof in a location that has been coordinated with the HVAC contractor.

BUILDING DISTRIBUTION PIPING
All piping from meter/regulator to gas fired equipment connections shall be black steel. Steel Pipe: ASTM A 53/A 53M, black steel, Schedule 40, Type E or S, Grade B. Pipe size 2" and smaller: Malleable-Iron Threaded Fittings Malleable-Iron Threaded Fittings: ASME B16.3, Class 150, standard pattern. Press-Connect fittings: Carbon steel, cold-pressed, ANSI LC4/CSA 6.32 Pipe size 2-1/2" and larger: Wrought-Steel Welding Fittings for butt welding and socket welding. Wrought-Steel Welding Fittings: ASTM A 234/A 234M for butt welding and socket welding.

GENERAL DUTY VALVES
Metallic valves 2 inches and smaller shall comply with ASME B16.33, cold working pressure of 125 psig. Metallic valves larger than 2 inches shall comply with ASME B16.38, cold working pressure of 125 psig. Provide one-piece ball valves with bronze body, chrome-plated brass ball, blowout proof stem and seat, and bronze trim complying with MSS SP-110. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the work include, and limited to, the following: Milwaukee valve, NIBCO, and Watts Water Technologies co.

22 13 16.00 - SANITARY, WASTE AND VENT PIPING SYSTEM

SUBMITTAL REQUIREMENTS
Product Data: For each type of product indicated.

GENERAL
Provide a complete soil, waste and vent system in the building and on the site as indicated on the drawings and as specified herein. Above ground soil, waste and vent piping within buildings including soil stacks, vent stacks, horizontal branches, traps, and connections to fixtures and drains. Underground building drain piping including mains, branches, traps, connections to fixtures and drains, and connections to stacks, terminating at connection to existing sanitary sewer.

INTERIOR PIPING
No-Hub cast iron soil, waste, and vent piping and fittings 1-1/2" and larger shall conform to ASTM A-888. Hub and Spigot cast iron soil, waste, and vent piping and fittings 2" and larger shall conform to ASTM A-74 with ASTM C-564 gasketed joints. Soil, waste and vent piping smaller than 1-1/2" shall be Type "M" copper and conform to ASTM B-306. No-hub cast iron pipe and fittings may be used aboveground for soil, waste, and vent piping. Hub and spigot cast iron pipe may be used underground for soil, waste, and vent piping. Piping alignment shall be as indicated on the drawings using approved vye branches or eight bands for direction changes and shall be surely supported or secured to maintain such alignment. Pitch of sanitary piping shall be uniform at a minimum of 1/8" per foot for building drains, drainage piping greater than 2" and as indicated on the drawings. Pitch of sanitary piping shall be uniform at a minimum of 1/4" per foot for drainage piping 2" and smaller and as indicated on the drawings. Protection shall be given all footings, other structural elements during underground work adjacent to such items. Refer to architectural and/or structural drawings for locations. Vent all fixtures, connect branch vents to main vent risers at least six inches above flood rim of fixtures. Pitch vent lines back to soil or waste pipe, free of drops and sags. Cleanouts shall be full size of pipe up to 4", and 4" for larger sizes. For underground and concealed lines, provide cleanouts in accessible positions at each right angle turn and at intervals not to exceed fifty feet. In floors, install flush with finish floor with extension pipe from cleanout vye.

BUILDING DISTRIBUTION PIPING
All piping from meter/regulator to gas fired equipment connections shall be black steel. Steel Pipe: ASTM A 53/A 53M, black steel, Schedule 40, Type E or S, Grade B. Pipe size 2" and smaller: Malleable-Iron Threaded Fittings Malleable-Iron Threaded Fittings: ASME B16.3, Class 150, standard pattern. Press-Connect fittings: Carbon steel, cold-pressed, ANSI LC4/CSA 6.32 Pipe size 2-1/2" and larger: Wrought-Steel Welding Fittings for butt welding and socket welding. Wrought-Steel Welding Fittings: ASTM A 234/A 234M for butt welding and socket welding.

GENERAL DUTY VALVES
Metallic valves 2 inches and smaller shall comply with ASME B16.33, cold working pressure of 125 psig. Metallic valves larger than 2 inches shall comply with ASME B16.38, cold working pressure of 125 psig. Provide one-piece ball valves with bronze body, chrome-plated brass ball, blowout proof stem and seat, and bronze trim complying with MSS SP-110. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the work include, and limited to, the following: Milwaukee valve, NIBCO, and Watts Water Technologies co.

22 13 16.00 - SANITARY, WASTE AND VENT PIPING SYSTEM

SUBMITTAL REQUIREMENTS
Product Data: For each type of product indicated.

GENERAL
Provide a complete soil, waste and vent system in the building and on the site as indicated on the drawings and as specified herein. Above ground soil, waste and vent piping within buildings including soil stacks, vent stacks, horizontal branches, traps, and connections to fixtures and drains. Underground building drain piping including mains, branches, traps, connections to fixtures and drains, and connections to stacks, terminating at connection to existing sanitary sewer.

INTERIOR PIPING
No-Hub cast iron soil, waste, and vent piping and fittings 1-1/2" and larger shall conform to ASTM A-888. Hub and Spigot cast iron soil, waste, and vent piping and fittings 2" and larger shall conform to ASTM A-74 with ASTM C-564 gasketed joints. Soil, waste and vent piping smaller than 1-1/2" shall be Type "M" copper and conform to ASTM B-306. No-hub cast iron pipe and fittings may be used aboveground for soil, waste, and vent piping. Hub and spigot cast iron pipe may be used underground for soil, waste, and vent piping. Piping alignment shall be as indicated on the drawings using approved vye branches or eight bands for direction changes and shall be surely supported or secured to maintain such alignment. Pitch of sanitary piping shall be uniform at a minimum of 1/8" per foot for building drains, drainage piping greater than 2" and as indicated on the drawings. Pitch of sanitary piping shall be uniform at a minimum of 1/4" per foot for drainage piping 2" and smaller and as indicated on the drawings. Protection shall be given all footings, other structural elements during underground work adjacent to such items. Refer to architectural and/or structural drawings for locations. Vent all fixtures, connect branch vents to main vent risers at least six inches above flood rim of fixtures. Pitch vent lines back to soil or waste pipe, free of drops and sags. Cleanouts shall be full size of pipe up to 4", and 4" for larger sizes. For underground and concealed lines, provide cleanouts in accessible positions at each right angle turn and at intervals not to exceed fifty feet. In floors, install flush with finish floor with extension pipe from cleanout vye.

END OF SPECIFICATION

REVISIONS:

No.	Description	Date



ARCHITECT:
necto | architecture
310 Old Vine Street
Suite 100A
Lexington, KY 40507
859-338-4833



PROJECT NAME:
NORTHERN KENTUCKY UNIVERSITY STUDENT UNION RENOVATION - SBARRO PIZZA

STAMP:
MICHAEL V. RUBENEC
2007
09/19/19

SHEET TITLE:
PLUMBING - SPECIFICATIONS

PLUMBING

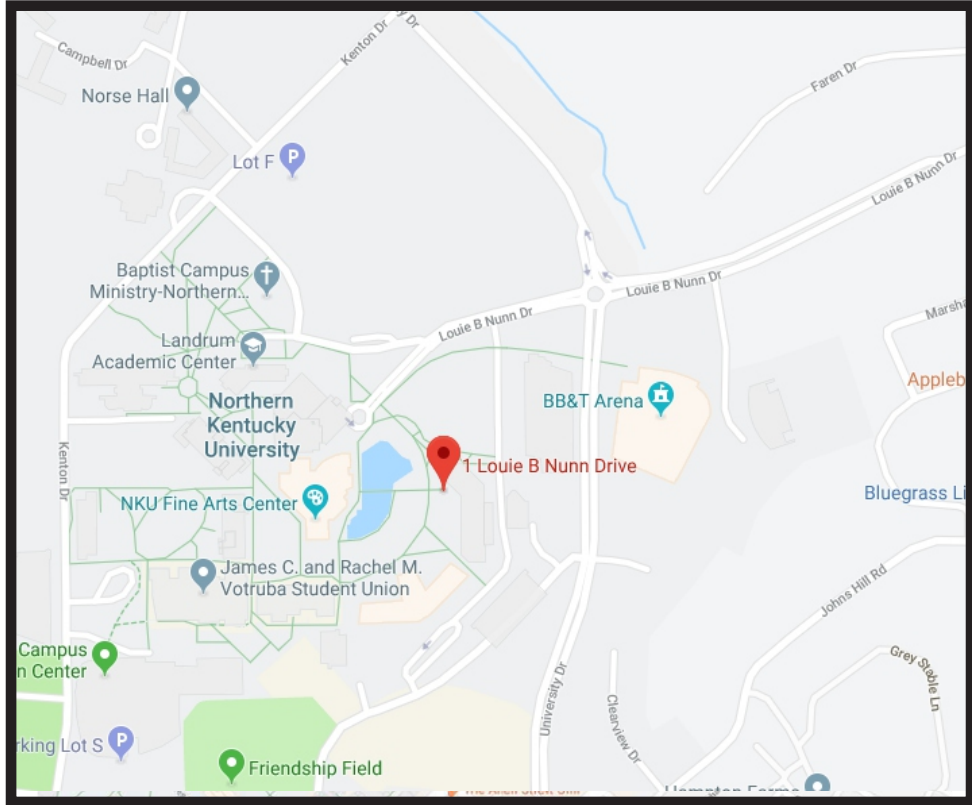
PROJECT NO.: 2019-003
DRAWN BY: DMR
CHECKED BY: DIT
SCALE:
DATE: SEPTEMBER 2019
SHEET NUMBER:



SBARRO

**STORE
SPACE**

**1 LOUIE B NUNN DRIVE
HIGHLAND HEIGHTS, KY 41099**



93 Industry Drive
PO Box 349
Versailles, KY 40383
859.879.1199



SBARRO

STORE
SPACE

1 LOUIE B NUNN DRIVE
HIGHLAND HEIGHTS, KY 41099

This sign is intended to be installed in accordance with the requirements of Article 600 of the National Electrical Code and/or other applicable local codes. This includes proper grounding and bonding of the sign.

RUGGLES SIGN DOES NOT PROVIDE PRIMARY ELECTRICAL TO SIGN LOCATION!



Submittal Date: 09/12/19
Acct Rep: Seth Cambron
Designer: Heather Hisle

REVISIONS

R1: _____	R6: _____
R2: _____	R7: _____
R3: _____	R8: _____
R4: _____	R9: _____
R5: _____	R10: _____

STOREFRONT - ELEVATION

Scale: N.T.S.



93 Industry Drive
PO Box 349
Versailles, KY 40383
859.879.1199



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Submittal Date: 09/12/19
Acct Rep: Seth Cambron
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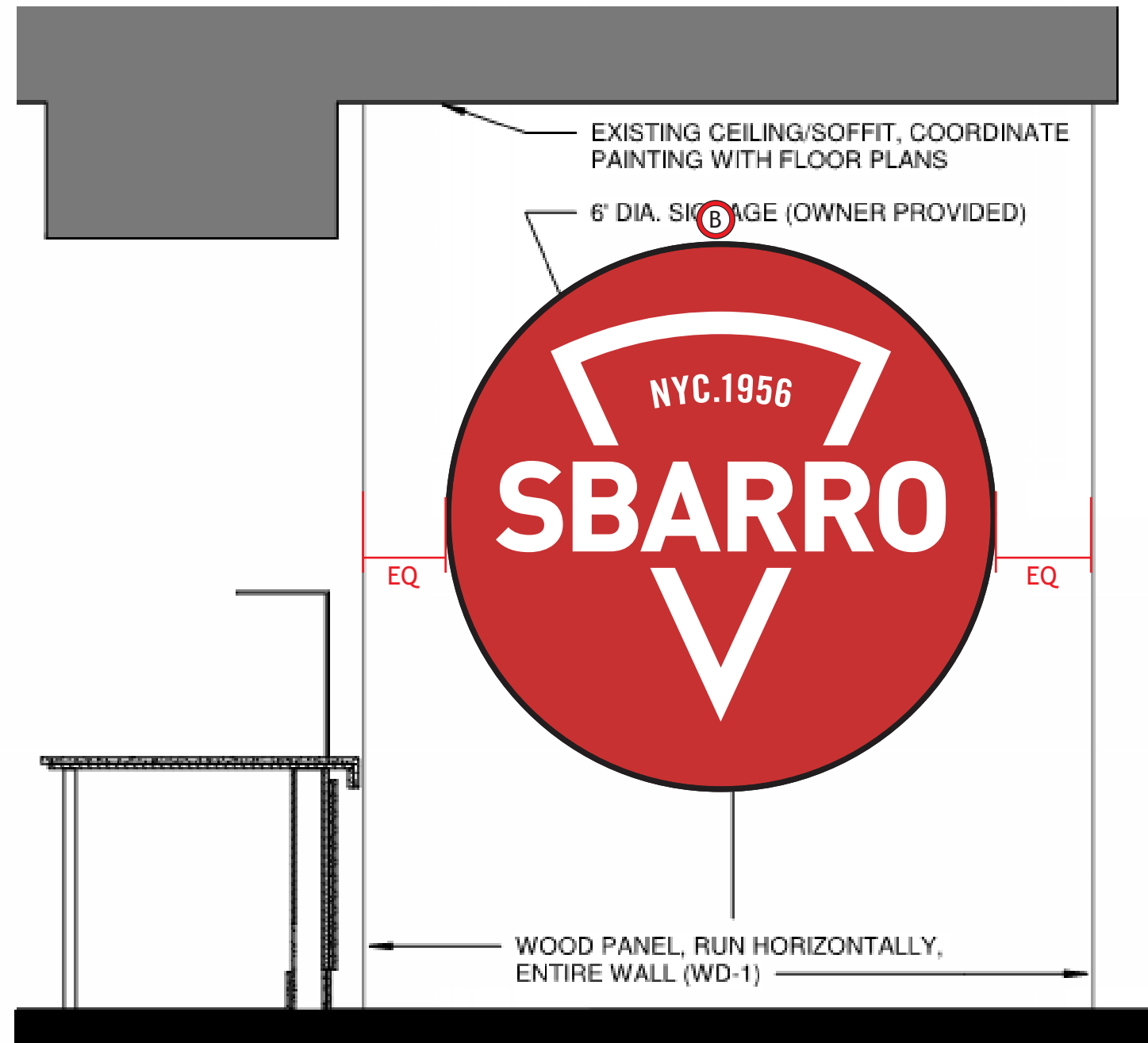
REVISIONS

R1: _____	R6: _____
R2: _____	R7: _____
R3: _____	R8: _____
R4: _____	R9: _____
R5: _____	R10: _____

A1 SBA13FL RPT
Qty - 1

A2 SBA PT CB36.625
Qty - 1

B SBA FL PT CB72 shoebox
Qty - 1



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PO Box 349
Versailles, KY 40383
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REVISIONS

R1: _____	R6: _____
R2: _____	R7: _____
R3: _____	R8: _____
R4: _____	R9: _____
R5: _____	R10: _____

- A1 SBA13FL RPT Qty - 1
- A2 SBA PT CB36.625 Qty - 1
- B SBA FL PT CB72 shoebox Qty - 1

A FACE LIT CHANNEL LETTERS / ILLUM. CABINET - ELEVATION
Scale: 3/4" = 1' - 0"



CHANNEL LETTERS - DETAILS

- 1 3" DEEP ALUMINUM LETTERS WITH ROUNDED ALUMINUM BACKS PAINTED TO MATCH SATIN BLACK, INTERIOR SURFACES PAINTED HIGH GLOSS WHITE
- 2 LETTER RETURNS & BACKS ARE CAULKED TO ELIMINATE LIGHT LEAKS
- 3 3/8" THICK ROUNDED LIGHT DIFFUSING ACRYLIC (SATIN ICE) REVERSE PUSH THRU FACE SECURED TO RETURNS WITH SET SCREW AT TOP RETURN
- 4 BITRO LITE 6500K WHITE LED UNITS TO ILLUMINATE LETTERS
- 5 BITRO ASU-60-12U LED DRIVER (120-277 VOLT) CONTAINED IN PAIGE 980054C SNAP 2 ENCLOSURE
- 6 10-24 RIVET NUT, WITH 3/16" ALL THREAD ROD, SILICONE APPLIED TO STUDS AND LETTER BACK WITH DOUBLE SIDE TAPE TO SECURE LETTER FLUSH TO STOREFRONT

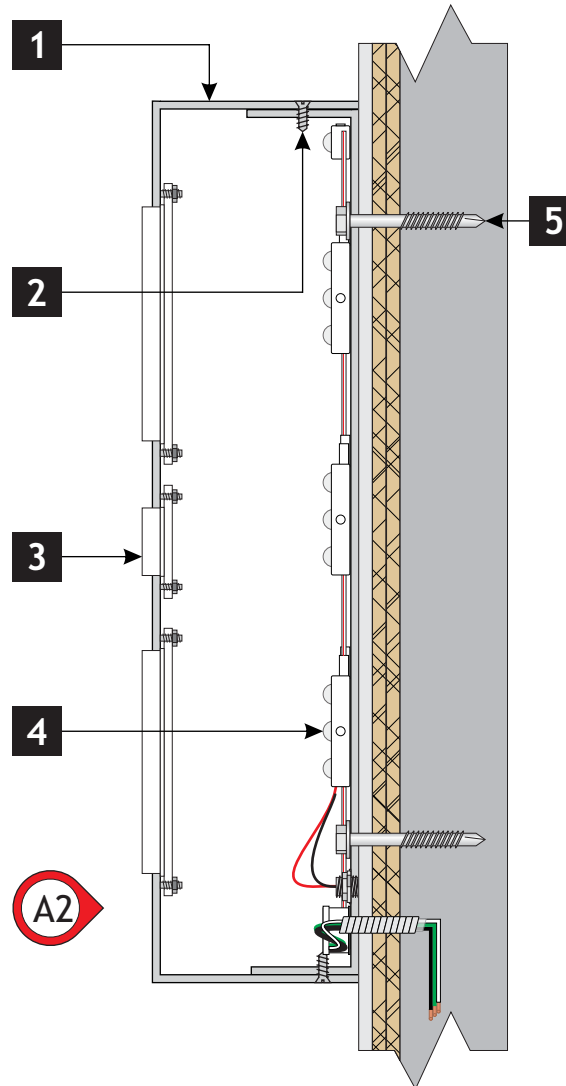
A1

CABINET - DETAILS

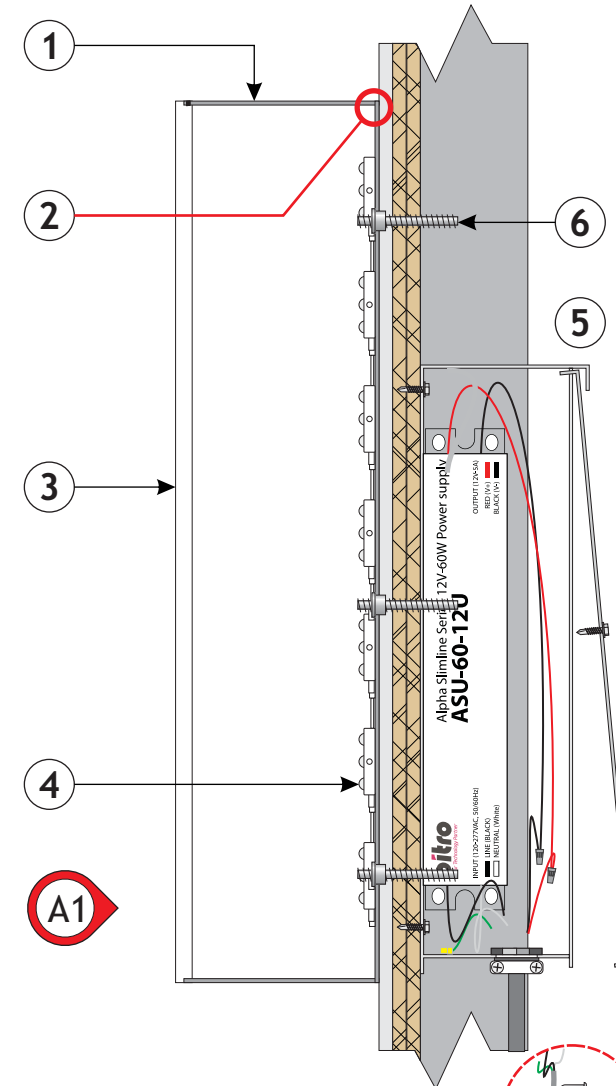
- 1 3" DEEP ROUNDED ALUMINUM "shoebox" BOX PAINTED SATIN BLACK ON ALL SIDES. INTERIOR OF SIGN IS PAINTED HIGH GLOSS WHITE
- 2 BOX RETURNS ATTACH TO BROKE ALUMINUM BACK WITH COUNTERSUNK SCREWS PAINTED SATIN BLACK TO MATCH
- 3 1/2" THICK PUSH THRU ACRYLIC LETTERS. WITH SANDED EDGES AND FROSTED FACES. 3/16" WHITE MODIFIED ACRYLIC DIFFUSER PANEL HELD INTO PLACE WITH THREADED STUDS AND NUTS ON BACK SIDE
- 4 Bitro OpticsPro Lite 6500K WHITE LED UNITS MOUNTED TO ALUMINUM BACK
- 5 SIGN BOX MOUNTS FLUSH TO RACEWAY WITH BOLTS AND NUTS ON THE BACK SIDE

A2

CABINET - SECTION
Scale: N.T.S.



FACE-LIT LETTERS - SECTION
Scale: N.T.S.



DEDICATED PRIMARY SIGN CIRCUIT AND DISCONNECT PROVIDED BY ELECTRICIAN



93 Industry Drive
PO Box 349
Versailles, KY 40383
859.879.1199



SBARRO

STORE SPACE

1 LOUIE B NUNN DRIVE
HIGHLAND HEIGHTS, KY 41099

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RUGGLES SIGN DOES NOT PROVIDE PRIMARY ELECTRICAL TO SIGN LOCATION!

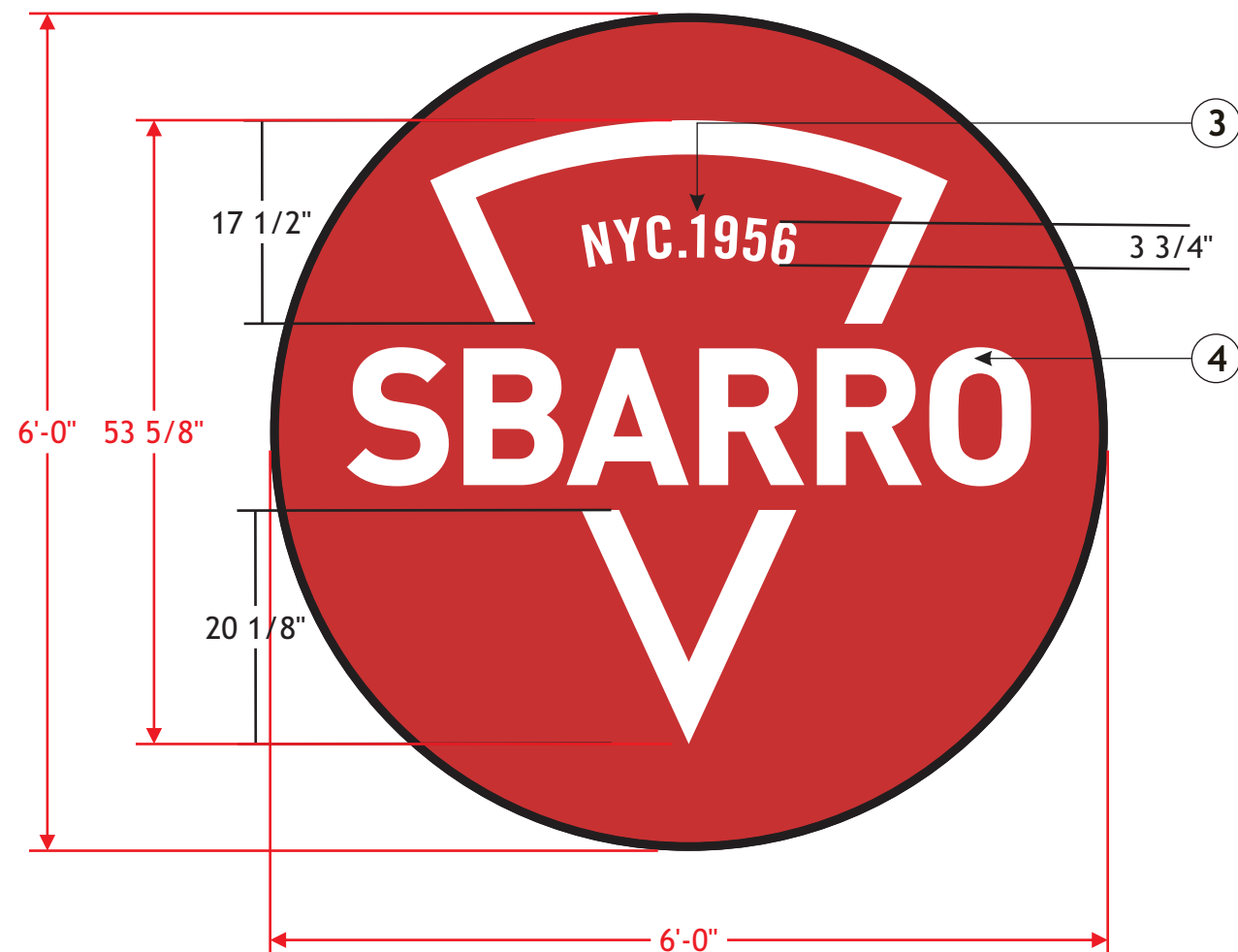


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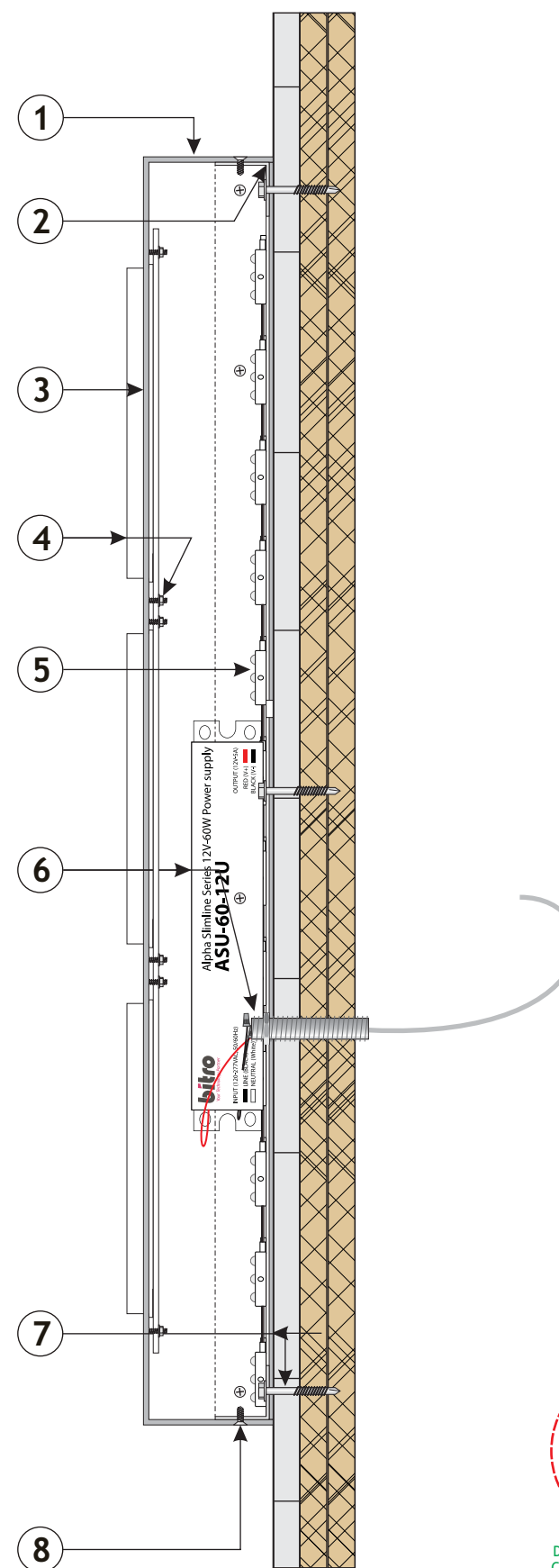
REVISIONS

R1: _____	R6: _____
R2: _____	R7: _____
R3: _____	R8: _____
R4: _____	R9: _____
R5: _____	R10: _____

B ILLUMINATED CABINET SIGN - ELEVATION
Scale: 3/4" = 1' - 0"



SIGN - SECTION



SIGN - DETAILS

- ① 3" DEEP FABRICATED ALUMINUM "SHOEBOX" CABINET WITH ROUTED FACE, RETURNS AND 3/8" BORDER ON FACE PAINTED MATTE BLACK. FACE PAINTED TO MATCH PMS 186C RED, ALL INTERIOR SURFACES PAINTED HIGH GLOSS WHITE.
- ② .090" ALUMINUM BACK WITH 1 1/2" ANGLE ALL THE WAY AROUND PAINTED TO MATCH CABINET
- ③ FORWARD CUT, MATTE WHITE VINYL "NYC. 1956" APPLIED FIRST SURFACE TO FACE OF CABINET
- ④ 1/2" THICK ROUTED CLEAR ACRYLIC "SBARRO" AND "PIZZA" SHAPE PUSH THRU LETTERS WITH SANDED FACES AND EDGES, 1/8" THICK WHITE POLYCARBONATE BACKER PANEL SECURED TO INSIDE OF CABINET WITH POP-STUDS AND WIZ NUT FASTENERS
- ⑤ BITRO OPTICS PRO LITE 6500K WHITE LED UNITS
- ⑥ BITRO ASU-60-12U LED DRIVER (120-277 VOLT) SELF-CONTAINED POWER SUPPLY, G.C. TO PROVIDE ELECTRIC TO SIGN
- ⑦ CABINET MOUNTS FLUSH TO STOREFRONT WALL WITH LAG BOLT FASTENERS THROUGH THE BACK
- ⑧ FACE SHOEBOXES OVER BACK AND IS SECURED WITH COUNTERSUNK SCREWS AROUND PERIMETER, TOUCHED UP UPON INSTALL



DEDICATED PRIMARY SIGN
CIRCUIT AND DISCONNECT
PROVIDED BY ELECTRICIAN



93 Industry Drive
PO Box 349
Versailles, KY 40383
859.879.1199



SBARRO

STORE
SPACE

1 LOUIE B NUNN DRIVE
HIGHLAND HEIGHTS, KY 41099

This sign is intended to be installed in accordance with the requirements of Article 600 of the National Electrical Code and/or other applicable local codes. This includes proper grounding and bonding of the sign.

RUGGLES SIGN DOES NOT PROVIDE PRIMARY ELECTRICAL TO SIGN LOCATION!



Submittal Date: 09/12/19
Acct Rep: Seth Cambron
Designer: Heather Hisle

REVISIONS

R1: _____	R6: _____
R2: _____	R7: _____
R3: _____	R8: _____
R4: _____	R9: _____
R5: _____	R10: _____

\Orchestrating a brighter world

NEC

40", 48" and 55" Commercial Displays Ideal for Digital Signage Applications

NEC Commercial Large Format Displays



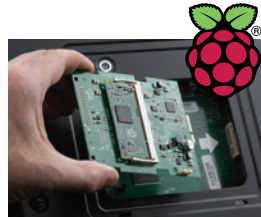
Brand new aesthetically-focused design allows for seamless integration into any digital signage environment while maintaining the professional ruggedness necessary for the retail, education and restaurant

Beyond Standard Signage

Create maximum visual impact through seamless simplicity with the new professional NEC V Series products. New contemporary and slim mechanical design with focused aesthetics allows for the smooth and stylistic integration into any type of environment. Their full metal chassis coupled with real-time temperature sensors and integrated cooling fans maintain the professional quality necessary for commercial environments. With a wide range of the latest connectivity interfaces including resolution support up to Ultra High Definition at 60Hz, these displays offer the future-proofing necessary for the investment. These displays also include expandability options such as the Open Pluggable Specification (OPS) and Raspberry Pi Compute Module slots for source integration directly into the display. The NEC V Series boasts 500 cd/m² brightness along with a new anti-glare surface that allows for efficient readability in normal ambient light situations and is ideal for 24/7 signage in retail, education and restaurants applications.

Scalable Computing Power

Integrated computing options allow for cable free signage for any type of situation. The on-board multimedia player can be utilized for simple signage applications by allowing auto-play off of USB or SD card and content transfer via LAN. For more advanced signage systems, these displays contain an industry first ability to integrate a Raspberry Pi Compute module for near limitless potential and application. Finally, each display adheres to the Open Pluggable Specification that gives the ability to seamlessly integrate a full PC, HDBaseT receiver or other options directly into the unit.

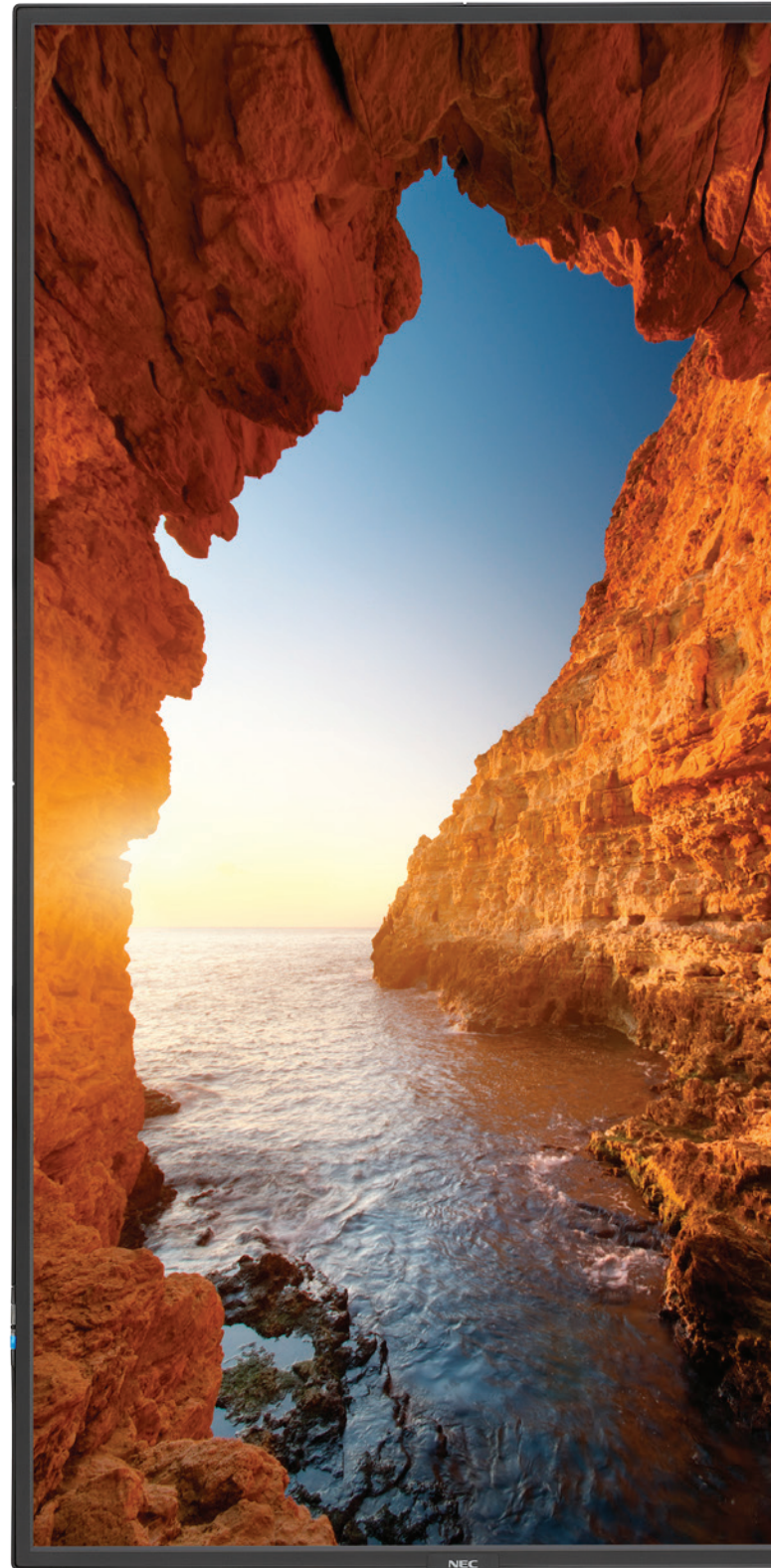
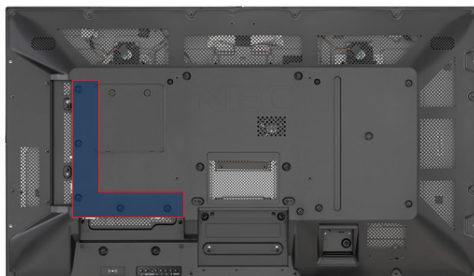


Advanced Heat Management

Monitoring and managing the temperature of each display is crucial to secure reliability and longevity. An industrial-strength, premium-grade panel with additional thermal protection, internal temperature sensors with self-diagnostics, and fan-based technology allows for 24/7 operation, and protects your display investment. Without thermal management, displays can be prone to damaging heat over time. This damaging heat will lower the picture quality and life expectancy of the product. Integrated cooling fans automatically turn on and stay on when high internal temperatures are detected. These will stay on until the heat is properly dissipated and the display remains under proper temperature thresholds.

L-Shaped Connectivity

Connectivity is located on both the bottom and side of the display to allow for easy access regardless of orientation



Blue ON LED and Ambient Light Sensor

New mechanical structure allows for sleeker LED and ambient light sensor design. Auto dimming of the LED backlights can be utilized through the ambient light sensor allowing for the brightness to change depending on the external lux in the room of installation.



Proof of Play

This function provides accurate proof that displays are working as established when checking from an external location. Information regarding video source, time on, audio source and more can be pulled through the display when coupled with NaViSet Administrator 2.

SpectraView Engine

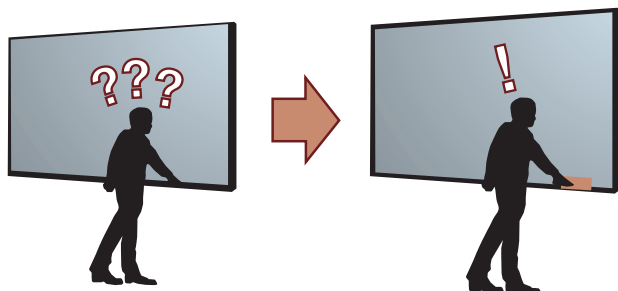
Enhanced imaging performance through advanced settings of all relevant parameters allow full control of brightness, color, gamma and uniformity via integrated color-critical chipset.

Auto TileMatrix, Auto ID and Auto IP Address Technologies

Auto IP Address simplifies control setup by setting the static IP address on the first display then initiating the feature so that the IP Addresses of consecutive displays follow the LAN daisy chain. These displays also have Auto TileMatrix and Auto ID that can, in the case of a video wall, automatically scale up to a UHD signal across the entirety of the wall through DisplayPort 1.2 while individually IDing each screen, saving time and overall cost of installation.

Key Guide

New Key Guide function allows for easier access to buttons when manually controlling the unit via the buttons on the back of the display by adding a graphic on the screen that directs the customer to the correct button layout in both landscape and portrait modes.



(EXIT) (▼) (▲) (—) (+) (SET) (MUTE) (|)

NaViSet Administrator 2

This software is an all-in-one remote support solution that runs from a central location and provides monitoring, asset management and control functionality of the majority of NEC display devices and Windows computers. It is ideal for multi-device installations over larger infrastructures.



Dedicated Color Calibration Software

As the brightness and color temperature of the LCD change with time, colors may not match across multiple screens. The NEC Display Wall Calibrator software ensures color uniformity and fidelity across multiple screens, creating a perfectly matched image in tiled environments.

NEC Display Wall Calibrator

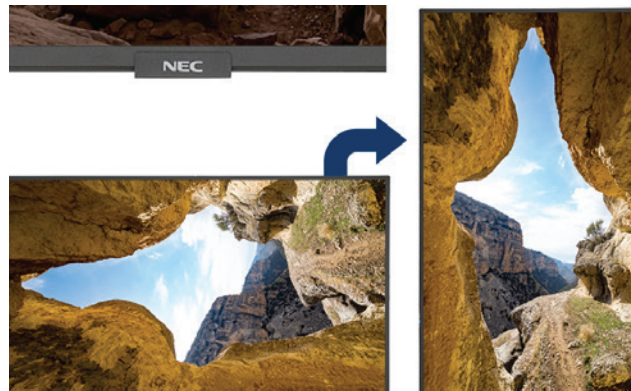
Intelligent Wireless Data Function

The built-in near field communication (NFC) chip allows data to be read and written via a mobile phone or tablet PC. Users can significantly reduce installation costs as displays can be easily configured and serviced using the NEC NFC Android app. This is extremely useful for larger rollouts as it can be utilized even when the display is powered off.



Removable Logo

When mounting from Landscape to Portrait orientation, there is now the ability to change the orientation of the logo or remove it all together



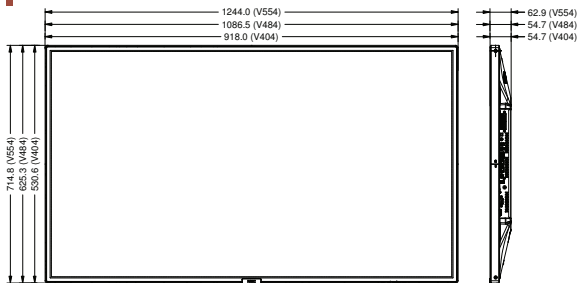
	V404	V484	V554
LCD MODULE			
Panel Technology	SPVA		S-IPS
Viewable Image Size	40"	48"	55"
Native Resolution	1920 x 1080		
Brightness (Typical/Minimum)	400 cd/m ² / 500 cd/m ²		
Contrast Ratio (Typical)	4000:1		1300:1
Viewing Angle	178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR>10		
Aspect Ratio	16:9		
Displayable Colors	Over 1.07 Billion		
Orientation	Landscape, Portrait, Face Up, Face Down		
Panel Haze (%)	25		44
CONNECTIVITY			
Input Terminals	Digital	HDMI 2.0 x2 (with HDCP), DVI-D (with HDCP), DisplayPort x2 (with HDCP)	
	Analog	VGA 15-pin D-SUB, RCA Composite	
	Audio	3.5mm Audio Mini Jack x2, DisplayPort Audio x2, HDMI Audio x2	
	External Control	LAN (100Mbit), 3.5 Mini Jack IR Remote, RS232C	
	Data	microSD (Media Player), USB 2.0 (Media Player), USB 2.0 (Service), USB Type-B (Upstream), USB 2.0 x2 (Compute Module, Powered SV/2A)	
Output Terminals	Digital	DisplayPort (Outputs DisplayPort or OPS)	
	Audio	3.5mm Audio Mini Jack	
	External Control	LAN (100Mb)	
POWER CONSUMPTION			
On (Typ/Max)	75W/95W	85W/105W	110W/150W
Network Standby	3W		
Normal Standby	<0.5W		
Current Rating	2.7A - 1.1A @ 100V - 240V	2.7A - 1.1A @ 100V - 240V	3.3A - 1.4A @ 100V - 240V
Speaker Rating	Integrated 10W x 10W, Optional 15W x 2		
PHYSICAL SPECIFICATIONS			
Bezel Width (L/R, T/B)	13.2mm/13.2mm/13.2mm/13.2mm		14.2mm/14.2mm/14.2mm/14.2mm
Net Dimensions (Without stand; W x H x D)	36.1 x 20.9 x 2.2 in. 918.0 x 530.6 x 54.7mm	42.8 x 24.6 x 2.2 in. 1086.5 x 625.3 x 54.7mm	49.0 x 28.1 x 2.5 in. 1244.0 x 714.8 x 62.9mm
Net Weight (Without Stand)	31.5lbs / 14.3kg	38.8lbs / 17.6kg	54.2lbs / 24.6kg
VESA Hole Configuration	4x M6 x 12mm (300 x 300)		
SENSORS			
Ambient Light Sensor	Integrated and programmable		
Human Sensor	Optional through KT-RC2 Accessory		
Temperature Sensor	Integrated and programmable; linked to cooling fans		
NFC Sensor	Integrated; works in conjunction with free NEC Intelligent Wireless Data Application		
ENVIRONMENTAL CONDITIONS			
Operating Temperature	0 to 40C		
Operating Humidity	20-80%		
Operating Altitude	3000m (9843ft)		
LIMITED WARRANTY			
	3 years Advanced Replacement		
ADDITIONAL FEATURES			
	Ambient Light Sensor, AMX Support, Auto ID/Auto TileMatrix, Automated Email Alert Function, CEC Support through HDMI, Crestron Roomview Support, DICOM Simulation, Display Browser Control, Display Wall Calibrator Compatible, High Haze Panel, Image Flip, Intelligent Wireless Data (NFC), Key Guide, Media Player through Browser Control/SD Card/USB, Multi Picture Mode, Naviset Administrator 2 Compatible, OSD Rotation for Portrait Orientation, OPS Compatible, PJ Link Support, Point Zoom Function, Power USB Port (SV/2A), Programmable LUT x3, Raspberry Pi Compute Module Compatible, Removeable Logo Ornament, Real Time Clock, SpectraView Engine Support, SNMP Support, 24-Hour Scheduler Function, UHD Support through HDMI/DisplayPort		
SHIPS WITH			
	3m AC Power Cord, 1.8m DVI Cable, IR Remote Control, Batteries, CD-ROM (User Manual)		
OPTIONAL ACCESSORIES			
	Table Top Stand (ST-401), Optional Speakers (SPTF1), All OPS Option Cards, Raspberry Pi Compute Module 1 and 3 with optional NEC Interface Board, Wall Mount (WMK-3257), Slim Wall Mount (WMK-3255S), Human Sensor (KT-RC2)		



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Dimensions



Options

OPS PC's

- OPS-APIC-PS
- OPS-PCIB-PS
- OPS-TCIS-PS

- OPS-PCAEQ-PS
- OPS-APIS-PS



SDI

- HD-SDI **SB-01HC**
- 3G-SDI **SB-04HC**



HDBaseT

- SB-07BC**



Compute Module

- Compute Module Interface Board **DS1-IF10CE**
- NEC Raspberry Pi Compute Module **RP3CM16GB**



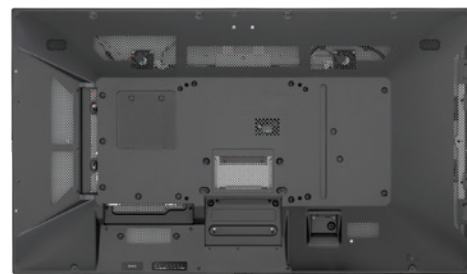
Tabletop Stand

- ST-401**



Speaker

- SP-TF1**



Input Panels

- | | |
|--------------------------------------|------------------|
| 1. DVI-D | 13. USB2 |
| 2. HDMI IN2 | 14. USB CM1 (2A) |
| 3. DisplayPort IN2 | 15. USB CM2 |
| 4. DisplayPort IN1 | 16. LAN1 |
| 5. DisplayPort OUT | 17. LAN2 |
| 6. VGA (RGB, YPbPr) | 18. VIDEO IN |
| 7. Audio IN1 | 19. USB MP |
| 8. Audio IN2 | 20. microSD |
| 9. External Speaker Terminal | 21. REMOTE IN |
| 10. Internal/External Speaker Switch | 22. RS-232C |
| 11. Audio OUT | 23. HDMI IN1 |
| 12. USB1 | |






STRATEGIC

Project:
Sbarro - NKU - Equipment Package

From:
Tyler Francisco
2801 South Valley Parkway Suite
200
Lewisville, TX 75067
Main Line - 469-240-7200
Direct Line -469-240-7251

Project Code: 6362


Job Reference Number: 5194

Item	Qty	Description	Sell	Sell Total
156	1 ea	DUNNAGE RACK New Age Model No. 2020 Dunnage Rack, 36"W x 18"D x 12"H, all welded aluminum construction, 1-1/2" x 1-3/4" x 0.070 tubing, welded aluminum caps on feet, weight capacity 3000 lbs., NSF, Made in USA 	\$89.69	\$89.69
	1 ea	Lifetime warranty against rust & corrosion, 5 year workmanship and material defects warranty, standard		
			ITEM TOTAL:	\$89.69
171	1 ea	MOBILE WORK TOP PAN RACK New Age Model No. 1313 Bun Pan Rack, mobile, undercounter, all welded aluminum construction, open sides, 8-pan capacity, accommodates 18" x 26", 14" x 18", or 13" x 18" pans, slides on 3" centers, end loading, stainless steel top, reinforced uprights, (4) 5" stem swivel casters, NSF, Made in USA 	\$340.77	\$340.77
	1 ea	Lifetime warranty against rust & corrosion, 5 year workmanship and material defects warranty, standard		
			ITEM TOTAL:	\$340.77
200	1 ea	SNEEZE GUARD By Others Model No. CUSTOM		<By Other>
215	1 ea	HAND SINK Existing Equipment Model No. EXISTING		<Existing>
250	1 ea	WORK TABLE, STAINLESS STEEL TOP Advance Tabco Model No. TKMS-304 Work Table, 48"W x 30"D, 16 gauge 304 stainless steel top with 5"H backsplash, stainless steel legs with side & rear crossrails, adjustable stainless steel bullet feet, NSF 	\$717.95	\$717.95
			ITEM TOTAL:	\$717.95
252	1 ea	WORK TABLE, STAINLESS STEEL TOP	\$717.95	\$717.95



Foodservice Equipment, Supplies and Design

STRATEGIC

Item	Qty	Description	Sell	Sell Total
		Advance Tabco Model No. TKMS-304 Work Table, 48"W x 30"D, 16 gauge 304 stainless steel top with 5"H backsplash, stainless steel legs with side & rear crossrails, adjustable stainless steel bullet feet, NSF		
			ITEM TOTAL:	\$717.95
257	1 ea	WORK TABLE, STAINLESS STEEL TOP Advance Tabco Model No. KMS-304 Work Table, 48"W x 30"D, 16 gauge 304 stainless steel top with 5"H backsplash, 18 gauge stainless steel adjustable undershelf, stainless steel legs & adjustable bullet feet, NSF	\$709.00	\$709.00
	1 ea	TA-33 Special working height (per table) - Reduce to 24" aff		
			ITEM TOTAL:	\$709.00
340	1 ea	REFRIGERATOR, REACH-IN Existing Equipment Model No. EXISTING		<Existing>
343	1 ea	PIZZA PREP TABLE Existing Equipment Model No. EXISTING		<Existing>
410	1 ea	CONVEYOR OVEN, ELECTRIC Turbochef Model No. HCS-9500-23-V High h Conveyor 1618™ Conveyor Oven, Rapid Cook, electric, countertop, single deck, 36" conveyor length, 16" wide by 18" length cook chamber, Catalytic converter, variable speed motor, idle mode, built-in self diagnostics, smart voltage sensor technology, cool to touch covers and panels, stainless steel front, top, sides and back, stainless steel interior, cULus, CE, UL EPH Classified, ANSI/NSF 4, TUV (ventless)	\$9,201.84	\$9,201.84
	1 ea	All items FOB: Carrollton, Texas: Consumable/accessory orders less than \$5,000 will incur a handling fee. Orders shipping standard ground will incur a \$15.00 handling fee. Orders shipping other than standard ground will incur \$25.00 handling fee		
	1 ea	One year parts and labor warranty		
	1 ea	208/6 foot cord (nominal), , standard		
	2 ea	HCS-4099 JetPlate, Standard, Top or Bottom, HhC 1618 Oven		
			ITEM TOTAL:	\$9,201.84
470	1 ea	MIXER Precision N. America Model No. HD60.3 80 Quart Precision Pizza Mixer, 3 Phase, 208/240v. Includes 8060-quart hook, safety guard, timer, #12 hub, and 80-quart stainless	\$9,460.50	\$9,460.50

Initial: _____

STRATEGIC

Item	Qty	Description	Sell	Sell Total
	1 ea	steel mixing bowl. 1-year parts and labor, 3-year parts on motor, drive-train, and transmission, 7-year parts on gears and shafts in the planetary and transmission. GS-12 Cheese Grater Attachment, #12 Hub		
			ITEM TOTAL:	\$9,460.50
475	1 ea	CHEESE HOG BY OWNER Model No. PALAZZOLO GS-1 owner to buy direct		<By Owner>
482	1 ea	HOT FOOD WELL UNIT, DROP-IN, ELECTRIC Wells Model No. MOD-427TDM/AF Food Warmer, top-mount, built-in, electric, auto-fill, (4) openings to hold (4) 1/3 size pans, manifold drains with one valve, wet/dry operation, double control panel, thermostatic control, stainless steel interior, aluminum steel housing, cULus	\$3,262.07	\$3,262.07
	1 ea	Limited 2 year parts & 1 year labor warranty, standard		
	1 ea	Note: Must specify voltage and phase		
	1 ea	208/or 3-ph, 1.24/per well, field wired (field convertible)		
			ITEM TOTAL:	\$3,262.07
485	1 ea	DISPLAY CASE, REFRIGERATED DELI Federal Industries Model No. CGR5048CD Curved Glass Refrigerated Deli Case, 50"W x 35"D x 48"H, self contained refrigeration with condensate evaporator, adjustable temperature control, curved thermopane tilt-front glass, LED top light & lighted shelf, adjustable stainless steel mezzanine shelf, glass sliding rear doors, white scratch resistant display deck, tempered glass ends, removable rear wrapping board, choice of laminate, black trim, designed for continuous lineups, 1/2 HP, UL, UL EPH CLASSIFIED	\$11,263.18	\$11,263.18
	1 ea	One year parts & labor warranty		
	1 ea	Self-contained refrigeration standard		
	1 ea	1/2 hp		
	1 ea	Five year compressor warranty, standard (for self-contained units only)		
	1 ea	Laminate standard color - Black		
	1 ea	Casters, 2-1/2", includes cord & plug		
			ITEM TOTAL:	\$11,263.18
486	1 ea	COUNTER Custom Model No. CUSTOM		<By Other>

STRATEGIC

Item	Qty	Description	Sell	Sell Total
487	1 ea	EXHAUSE HOOD Existing Equipment Model No. CUSTOM		<Existing>
700	1 ea	PORTION SCALE Edlund Model No. EPZ-10 Pizza Scale, digital, 1" LCD display, 12-1/4" x 12-1/2" platform, four display options: 10 lbs. x 0.005 lbs./ 5 kg x 0.002 kg/ 10 lbs. x 0.1 oz./ 160 oz. x 0.1 oz., reads: lbs., oz. & grams, wall mounting bracket, stainless steel, NSF, CE	\$356.80	\$356.80
	1 ea	1 year limited warranty, standard		
			ITEM TOTAL:	\$356.80
740	3 ea	INGREDIENT BIN Rubbermaid Commercial Products Model No. FG360088WHT (27088) ProSave® Ingredient Bin, 2-3/4 cu. ft., 13-1/8"W x 29-1/4"D x 28"H, mobile, slant front with sliding lid, 32 oz scoop, seamless construction, 3" extra wide casters front fixed & rear swivel, white base/clear lid, USDA, FDA, NSF, S.O.S. (Special Order Smallwares) product; see SOS document for details, Made in USA (CANNOT BREAK CASE)	\$399.11	\$1,197.33
	3 ea	ZZARUBBERPROP65 WARNING: This product can expose you to chemicals, which is known to the State of California to cause cancer and/or other reproductive harm. For more information go to www.P65Warnings.ca.gov .		
	3 ea	FG9F7700CLR (27089) ProSave® Ingredient Bin Lid, 29"W x 12-1/10"D x 1-9/10"H, fits #3600 ingredient bin, includes 32 oz. scoop, clear, S.O.S. (Special Order Smallwares) product; see SOS document for details, NSF (CANNOT BREAK CASE)		
			ITEM TOTAL:	\$1,197.33
760	1 ea	PIZZA DISPLAY PACKAGE By Others Model No. CUSTOM		<By Other>
780	2 ea	DISPOSABLE CUP DISPENSER San Jamar Model No. C2410C (46338) Packed 6 ea EZ-Fit® One Size Fits All Dispenser, in-counter mount, 23-1/4"L tube, 5-3/4" diameter counter hole, for 8 to 46 oz. paper/plastic/foam cups with rim diameter of 2-7/8" to 4-3/4", vertical or horizontal, high-impact plastic, NSF	\$87.60	\$175.20
	2 pk	C24XC Euro EZ-Fit® Rings, for C2410C, metal finish (bagged with header card) (2 each per pack)		
			ITEM TOTAL:	\$175.20
800	2 ea	POS TERMINAL By Others Model No. BY OTHER		<By Other>



Foodservice Equipment, Supplies and Design

STRATEGIC

Item	Qty	Description	Sell	Sell Total
860	1 ea	MENU BOARDS By Others Model No. BY OTHER		<By Other>
900	1 ea	SIGNAGE By Others Model No. BY OTHER		<By Other>
901	1 ea	SIGNAGE By Others Model No. BY OTHER		<By Other>
s1	1 ea	CONSOLIDATION/DELIVER TRIMARK STRATEGIC Model No. CUSTOM price to consolidate for 2 months and delivery equipment package in one trip with liftgate during normal business hours monday - friday 8am - 5pm. any storage periods after 2 months or additional delivery trips will be charged accordingly.	\$1,920.80	\$1,920.80

ITEM TOTAL: \$1,920.80

Merchandise	\$39,413.08
Freight	\$1,589.99
Subtotal	\$41,003.07
Total	\$41,003.07

Acceptance: _____ Date: _____

Printed Name: _____