

PROJECT MANUAL

GENERATOR REPLACEMENT Riverside & Waterfall High-Rises

ELKHART HOUSING AUTHORITY

ALLIANCE
ARCHITECTS

February 13, 2025

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DIVISION 0
Bidding and Contract Requirements

NOTICE TO BIDDERS

1. The Housing Authority of the City of Elkhart, Indiana will receive sealed Bids in its offices at 1396 Benham Avenue, Elkhart, Indiana 46516, until the hour of 3:00 p.m., local time, March 6, 2025. A public bid opening will occur at that time. Any bid received after the above designated time will be returned unopened. The work shall be performed as per Plans and Specifications prepared by Alliance Architects, 929 Lincolnway East, Suite 200, South Bend, Indiana, and Bids are desired for Generator Replacement in Elkhart, Indiana.
2. Work includes replacement of generators for the Riverside and Waterfall High-Rises.
3. All prime Contractors submitting Bids on the Project shall encourage qualified minority subcontractors to perform any portion of the Work in the Project which is not performed by the Contractor's own forces. All bidders shall comply with HUD Section 3 Clause of regulation 24 C.F.R. Part 75.
4. Said Housing Authority of the City of Elkhart, Indiana is not obligated to accept the lowest or any other Bid submitted and reserves the right to reject any and all Proposals, to waive informalities in any Proposal if it shall be in the judgment of the Housing Authority of the City of Elkhart so to do and to defer the acceptance or rejection until the financial arrangements for said Project are completed.
5. Plans and Specifications may be obtained from Alliance Architects, 929 Lincolnway East, Suite 200, South Bend, Indiana, on or after February 13, 2025. Electronic Plans and Specifications are available upon request. If hard copies are required, deposits to be made out to Housing Authority of the City of Elkhart in the amount of Fifty Dollars (\$50.00) will be required of Prime Contractors for each set of Drawings and Specifications, which amount shall be returned in full in case the following two conditions are complied with:
 - a. The return of Drawings and Specifications within ten (10) days after the date of receiving Bids and
 - b. The Drawings and Specifications are in usable condition as determined by the Architect.Should any Bidder fail in the observance of EITHER CONDITION, he shall forfeit the FULL AMOUNT of his deposit.
6. A Pre-Bid Meeting will be held February 19, 2025, at 9:00 a.m. (local time), beginning at the Riverside High-Rise located at 181 N. Elkhart Avenue, Elkhart, Indiana, with Waterfall immediately after. Site visits that are necessary after this date will be by appointment only and should be made through the Housing Authority of the City of Elkhart, Indiana by contacting Mr. Erik Mathavan, Director of Comprehensive Improvements at 574-295-8392.
7. Instructions to Bidders, Plans, and Specifications including General Conditions are on file at:
 - a. Alliance Architects
929 Lincolnway East, Suite 200
South Bend, Indiana 46601
 - b. Housing Authority of the City of Elkhart
1396 Benham Avenue
Elkhart, Indiana 46516
www.ehai.org/open-public-bids.html

- c. MACIAF
212 W. Colfax Ave.
South Bend, IN 46601
- d. Dodge Data & Analytics
300 American Metro Blvd., Suite 185
Hamilton, NJ 08619
- e. ConstructConnect (f/k/a Construction Journal)
3825 Edwards Road #800
Cincinnati, OH 45209
- f. CMD Group, LLC
30 Technology Parkway South, Suite 100
Norcross, GA 30092-2912

**SECTION 00 20 00
INSTRUCTIONS TO BIDDERS**

THE "INSTRUCTION TO BIDDERS", HUD DOCUMENT HUD-5369, PAGES 1-4, OCTOBER 2002 EDITION, ARE HEREBY MADE A PART OF THE CONTRACT DOCUMENTS, EXCEPT AS THEY MAY BE MODIFIED BY THE SUPPLEMENTAL INSTRUCTIONS TO BIDDERS AND THE SPECIFIC PROVISIONS OF THESE DOCUMENTS.

END OF SECTION

**U.S. Department of Housing and
Urban Development**
Office of Public and Indian Housing

**Instructions to Bidders for Contracts
Public and Indian Housing Programs**

Instructions to Bidders for Contracts

Public and Indian Housing Programs

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1. Bid Preparation and Submission

(a) Bidders are expected to examine the specifications, drawings, all instructions, and, if applicable, the construction site (see also the contract clause entitled **Site Investigation and Conditions Affecting the Work** of the *General Conditions of the Contract for Construction*). Failure to do so will be at the bidders' risk.

(b) All bids must be submitted on the forms provided by the Public Housing Agency/Indian Housing Authority (PHA/IHA). Bidders shall furnish all the information required by the solicitation. Bids must be signed and the bidder's name typed or printed on the bid sheet and each continuation sheet which requires the entry of information by the bidder. Erasures or other changes must be initialed by the person signing the bid. Bids signed by an agent shall be accompanied by evidence of that agent's authority. (Bidders should retain a copy of their bid for their records.)

(c) Bidders must submit as part of their bid a completed form HUD-5369-A, "Representations, Certifications, and Other Statements of Bidders."

(d) All bid documents shall be sealed in an envelope which shall be clearly marked with the words "Bid Documents," the Invitation for Bids (IFB) number, any project or other identifying number, the bidder's name, and the date and time for receipt of bids.

(e) If this solicitation requires bidding on all items, failure to do so will disqualify the bid. If bidding on all items is not required, bidders should insert the words "No Bid" in the space provided for any item on which no price is submitted.

(f) Unless expressly authorized elsewhere in this solicitation, alternate bids will not be considered.

(g) Unless expressly authorized elsewhere in this solicitation, bids submitted by telegraph or facsimile (fax) machines will not be considered.

(h) If the proposed contract is for a Mutual Help project (as described in 24 CFR Part 905, Subpart E) that involves Mutual Help contributions of work, material, or equipment, supplemental information regarding the bid advertisement is provided as an attachment to this solicitation.

2. Explanations and Interpretations to Prospective Bidders

(a) Any prospective bidder desiring an explanation or interpretation of the solicitation, specifications, drawings, etc., must request it at least 7 days before the scheduled time for bid opening. Requests may be oral or written. Oral requests must be confirmed in writing. The only oral clarifications that will be provided will be those clearly related to solicitation procedures, i.e., not substantive technical information. No other oral explanation or interpretation will be provided. Any information given a prospective bidder concerning this solicitation will be furnished promptly to all other prospective bidders as a written amendment to the solicitation, if that information is necessary in submitting bids, or if the lack of it would be prejudicial to other prospective bidders.

(b) Any information obtained by, or provided to, a bidder other than by formal amendment to the solicitation shall not constitute a change to the solicitation.

3. Amendments to Invitations for Bids

(a) If this solicitation is amended, then all terms and conditions which are not modified remain unchanged.

(b) Bidders shall acknowledge receipt of any amendment to this solicitation (1) by signing and returning the amendment, (2) by identifying the amendment number and date on the bid form, or (3) by letter, telegram, or facsimile, if those methods are authorized in the solicitation. The PHA/IHA must receive acknowledgement by the time and at the place specified for receipt of bids. Bids which fail to acknowledge the bidder's receipt of any amendment will result in the rejection of the bid if the amendment(s) contained information which substantively changed the PHA's/IHA's requirements.

(c) Amendments will be on file in the offices of the PHA/IHA and the Architect at least 7 days before bid opening.

4. Responsibility of Prospective Contractor

(a) The PHA/IHA will award contracts only to responsible prospective contractors who have the ability to perform successfully under the terms and conditions of the proposed contract. In determining the responsibility of a bidder, the PHA/IHA will consider such matters as the bidder's:

- (1) Integrity;
- (2) Compliance with public policy;
- (3) Record of past performance; and
- (4) Financial and technical resources (including construction and technical equipment).

(b) Before a bid is considered for award, the bidder may be requested by the PHA/IHA to submit a statement or other documentation regarding any of the items in paragraph (a) above. Failure by the bidder to provide such additional information shall render the bidder nonresponsible and ineligible for award.

5. Late Submissions, Modifications, and Withdrawal of Bids

(a) Any bid received at the place designated in the solicitation after the exact time specified for receipt will not be considered unless it is received before award is made and it:

(1) Was sent by registered or certified mail not later than the fifth calendar day before the date specified for receipt of offers (e.g., an offer submitted in response to a solicitation requiring receipt of offers by the 20th of the month must have been mailed by the 15th);

(2) Was sent by mail, or if authorized by the solicitation, was sent by telegram or via facsimile, and it is determined by the PHA/IHA that the late receipt was due solely to mishandling by the PHA/IHA after receipt at the PHA/IHA; or

(3) Was sent by U.S. Postal Service Express Mail Next Day Service - Post Office to Addressee, not later than 5:00 p.m. at the place of mailing two working days prior to the date specified for receipt of proposals. The term "working days" excludes weekends and observed holidays.

(b) Any modification or withdrawal of a bid is subject to the same conditions as in paragraph (a) of this provision.

(c) The only acceptable evidence to establish the date of mailing of a late bid, modification, or withdrawal sent either by registered or certified mail is the U.S. or Canadian Postal Service postmark both on the envelope or wrapper and on the original receipt from the U.S. or Canadian Postal Service. Both postmarks must show a legible date or the bid, modification, or withdrawal shall be processed as if mailed late. "Postmark" means a printed, stamped, or otherwise placed impression (exclusive of a postage meter machine impression) that is readily identifiable without further action as having been supplied and affixed by employees of the U.S. or Canadian Postal Service on the date of mailing. Therefore, bidders should request the postal clerk to place a hand cancellation bull's-eye postmark on both the receipt and the envelope or wrapper.

(d) The only acceptable evidence to establish the time of receipt at the PHA/IHA is the time/date stamp of PHA/IHA on the proposal wrapper or other documentary evidence of receipt maintained by the PHA/IHA.

(e) The only acceptable evidence to establish the date of mailing of a late bid, modification, or withdrawal sent by Express Mail Next Day Service-Post Office to Addressee is the date entered by the post office receiving clerk on the "Express Mail Next Day Service-Post Office to Addressee" label and the postmark on both the envelope or wrapper and on the original receipt from the U.S. Postal Service. "Postmark" has the same meaning as defined in paragraph (c) of this provision, excluding postmarks of the Canadian Postal Service. Therefore, bidders should request the postal clerk to place a legible hand cancellation bull's eye postmark on both the receipt and Failure by a bidder to acknowledge receipt of the envelope or wrapper.

(f) Notwithstanding paragraph (a) of this provision, a late modification of an otherwise successful bid that makes its terms more favorable to the PHA/IHA will be considered at any time it is received and may be accepted.

(g) Bids may be withdrawn by written notice, or if authorized by this solicitation, by telegram (including mailgram) or facsimile machine transmission received at any time before the exact time set for opening of bids; provided that written confirmation of telegraphic or facsimile withdrawals over the signature of the bidder is mailed and postmarked prior to the specified bid opening time. A bid may be withdrawn in person by a bidder or its authorized representative if, before the exact time set for opening of bids, the identity of the person requesting withdrawal is established and the person signs a receipt for the bid.

6. Bid Opening

All bids received by the date and time of receipt specified in the solicitation will be publicly opened and read. The time and place of opening will be as specified in the solicitation. Bidders and other interested persons may be present.

7. Service of Protest

(a) Definitions. As used in this provision:

"Interested party" means an actual or prospective bidder whose direct economic interest would be affected by the award of the contract.

"Protest" means a written objection by an interested party to this solicitation or to a proposed or actual award of a contract pursuant to this solicitation.

(b) Protests shall be served on the Contracting Officer by obtaining written and dated acknowledgement from —

Ms. Angelia M. Washington
Executive Director
Elkhart Housing Authority
1396 Benham Avenue
Elkhart, IN 46516

[Contracting Officer designate the official or location where a protest may be served on the Contracting Officer]

(c) All protests shall be resolved in accordance with the PHA's/IHA's protest policy and procedures, copies of which are maintained at the PHA/IHA.

8. Contract Award

(a) The PHA/IHA will evaluate bids in response to this solicitation without discussions and will award a contract to the responsible bidder whose bid, conforming to the solicitation, will be most advantageous to the PHA/IHA considering only price and any price-related factors specified in the solicitation.

(b) If the apparent low bid received in response to this solicitation exceeds the PHA's/IHA's available funding for the proposed contract work, the PHA/IHA may either accept separately priced items (see 8(e) below) or use the following procedure to determine contract award. The PHA/IHA shall apply in turn to each bid (proceeding in order from the apparent low bid to the high bid) each of the separately priced bid deductible items, if any, in their priority order set forth in this solicitation. If upon the application of the first deductible item to all initial bids, a new low bid is within the PHA's/IHA's available funding, then award shall be made to that bidder. If no bid is within the available funding amount, then the PHA/IHA shall apply the second deductible item. The PHA/IHA shall continue this process until an evaluated low bid, if any, is within the PHA's/IHA's available funding. If upon the application of all deductibles, no bid is within the PHA's/IHA's available funding, or if the solicitation does not request separately priced deductibles, the PHA/IHA shall follow its written policy and procedures in making any award under this solicitation.

(c) In the case of tie low bids, award shall be made in accordance with the PHA's/IHA's written policy and procedures.

(d) The PHA/IHA may reject any and all bids, accept other than the lowest bid (e.g., the apparent low bid is unreasonably low), and waive informalities or minor irregularities in bids received, in accordance with the PHA's/IHA's written policy and procedures.

(e) Unless precluded elsewhere in the solicitation, the PHA/IHA may accept any item or combination of items bid.

(f) The PHA/IHA may reject any bid as nonresponsive if it is materially unbalanced as to the prices for the various items of work to be performed. A bid is materially unbalanced when it is based on prices significantly less than cost for some work and prices which are significantly overstated for other work.

(g) A written award shall be furnished to the successful bidder within the period for acceptance specified in the bid and shall result in a binding contract without further action by either party.

9. Bid Guarantee (applicable to construction and equipment contracts exceeding \$25,000)

All bids must be accompanied by a negotiable bid guarantee which shall not be less than five percent (5%) of the amount of the bid. The bid guarantee may be a certified check, bank draft, U.S. Government Bonds at par value, or a bid bond secured by a surety company acceptable to the U.S. Government and authorized to do business in the state where the work is to be performed. In the case where the work under the contract will be performed on an Indian reservation area, the bid guarantee may also be an irrevocable Letter of Credit (see provision 10, Assurance of Completion, below). Certified checks and bank drafts must be made payable to the order of the PHA/IHA. The bid guarantee shall insure the execution of the contract and the furnishing of a method of assurance of completion by the successful bidder as required by the solicitation. Failure to submit a bid guarantee with the bid shall result in the rejection of the bid. Bid guarantees submitted by unsuccessful bidders will be returned as soon as practicable after bid opening.

10. Assurance of Completion

(a) Unless otherwise provided in State law, the successful bidder shall furnish an assurance of completion prior to the execution of any contract under this solicitation. This assurance may be [Contracting Officer check applicable items] —

(1) a performance and payment bond in a penal sum of 100 percent of the contract price; or, as may be required or permitted by State law;

(2) separate performance and payment bonds, each for 50 percent or more of the contract price;

(3) a 20 percent cash escrow;

(4) a 25 percent irrevocable letter of credit; or,

(5) an irrevocable letter of credit for 10 percent of the total contract price with a monitoring and disbursements agreement with the IHA (applicable only to contracts awarded by an IHA under the Indian Housing Program).

(b) Bonds must be obtained from guarantee or surety companies acceptable to the U.S. Government and authorized to do business in the state where the work is to be performed. Individual sureties will not be considered. U.S. Treasury Circular Number 570, published annually in the Federal Register, lists companies approved to act as sureties on bonds securing Government contracts, the maximum underwriting limits on each contract bonded, and the States in which the company is licensed to do business. Use of companies listed in this circular is mandatory. Copies of the circular may be downloaded on the U.S. Department of Treasury website <http://www.fms.treas.gov/c570/index.html>, or ordered for a minimum fee by contacting the Government Printing Office at (202) 512-2168.

(c) Each bond shall clearly state the rate of premium and the total amount of premium charged. The current power of attorney for the person who signs for the surety company must be attached to the bond. The effective date of the power of attorney shall not precede the date of the bond. The effective date of the bond shall be on or after the execution date of the contract.

(d) Failure by the successful bidder to obtain the required assurance of completion within the time specified, or within such extended period as the PHA/IHA may grant based upon reasons determined adequate by the PHA/IHA, shall render the bidder ineligible for award. The PHA/IHA may then either award the contract to the next lowest responsible bidder or solicit new bids. The PHA/IHA may retain the ineligible bidder's bid guarantee.

11. Preconstruction Conference (applicable to construction contracts)

After award of a contract under this solicitation and prior to the start of work, the successful bidder will be required to attend a preconstruction conference with representatives of the PHA/IHA and its architect/engineer, and other interested parties convened by the PHA/IHA. The conference will serve to acquaint the participants with the general plan of the construction operation and all other requirements of the contract (e.g., Equal Employment Opportunity, Labor Standards). The PHA/IHA will provide the successful bidder with the date, time, and place of the conference.

12. Indian Preference Requirements (applicable only if this solicitation is for a contract to be performed on a project for an Indian Housing Authority)

(a) HUD has determined that the contract awarded under this solicitation is subject to the requirements of section 7(b) of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 450e(b)). Section 7(b) requires that any contract or subcontract entered into for the benefit of Indians shall require that, to the greatest extent feasible

(1) Preferences and opportunities for training and employment (other than core crew positions; see paragraph (h) below) in connection with the administration of such contracts or subcontracts be given to qualified "Indians." The Act defines "Indians" to mean persons who are members of an Indian tribe and defines "Indian tribe" to mean any Indian tribe, band, nation, or other organized group or community, including any Alaska Native village or regional or village corporation as defined in or established pursuant to the Alaska Native Claims Settlement Act, which is recognized as eligible for the special programs and services provided by the United States to Indians because of their status as Indians; and,

(2) Preference in the award of contracts or subcontracts in connection with the administration of contracts be given to Indian organizations and to Indian-owned economic enterprises, as defined in section 3 of the Indian Financing Act of 1974 (25 U.S.C. 1452). That Act defines "economic enterprise" to mean any Indian-owned commercial, industrial, or business activity established or organized for the purpose of profit, except that the Indian ownership must constitute not less than 51 percent of the enterprise; "Indian organization" to mean the governing body of any Indian tribe or entity established or recognized by such governing body; "Indian" to mean any person who is a member of any tribe, band, group, pueblo, or community which is recognized by the Federal Government as eligible for services from the Bureau of Indian Affairs and any "Native" as defined in the Alaska Native Claims Settlement Act; and Indian "tribe" to mean any Indian tribe, band, group, pueblo, or community including Native villages and Native groups (including

corporations organized by Kenai, Juneau, Sitka, and Kodiak) as defined in the Alaska Native Claims Settlement Act, which is recognized by the Federal Government as eligible for services from the Bureau of Indian Affairs.

(b) (1) The successful Contractor under this solicitation shall comply with the requirements of this provision in awarding all subcontracts under the contract and in providing training and employment opportunities.

(2) A finding by the IHA that the contractor, either (i) awarded a subcontract without using the procedure required by the IHA, (ii) falsely represented that subcontracts would be awarded to Indian enterprises or organizations; or, (iii) failed to comply with the contractor's employment and training preference bid statement shall be grounds for termination of the contract or for the assessment of penalties or other remedies.

(c) If specified elsewhere in this solicitation, the IHA may restrict the solicitation to qualified Indian-owned enterprises and Indian organizations. If two or more (or a greater number as specified elsewhere in the solicitation) qualified Indian-owned enterprises or organizations submit responsive bids, award shall be made to the qualified enterprise or organization with the lowest responsive bid. If fewer than the minimum required number of qualified Indian-owned enterprises or organizations submit responsive bids, the IHA shall reject all bids and readvertise the solicitation in accordance with paragraph (d) below.

(d) If the IHA prefers not to restrict the solicitation as described in paragraph (c) above, or if after having restricted a solicitation an insufficient number of qualified Indian enterprises or organizations submit bids, the IHA may advertise for bids from non-Indian as well as Indian-owned enterprises and Indian organizations. Award shall be made to the qualified Indian enterprise or organization with the lowest responsive bid if that bid is -

(1) Within the maximum HUD-approved budget amount established for the specific project or activity for which bids are being solicited; and

(2) No more than the percentage specified in 24 CFR 905.175(c) higher than the total bid price of the lowest responsive bid from any qualified bidder. If no responsive bid by a qualified Indian-owned economic enterprise or organization is within the stated range of the total bid price of the lowest responsive bid from any qualified enterprise, award shall be made to the bidder with the lowest bid.

(e) Bidders seeking to qualify for preference in contracting or subcontracting shall submit proof of Indian ownership with their bids. Proof of Indian ownership shall include but not be limited to:

(1) Certification by a tribe or other evidence that the bidder is an Indian. The IHA shall accept the certification of a tribe that an individual is a member.

(2) Evidence such as stock ownership, structure, management, control, financing and salary or profit sharing arrangements of the enterprise.

(f) (1) All bidders must submit with their bids a statement describing how they will provide Indian preference in the award of subcontracts. The specific requirements of that statement and the factors to be used by the IHA in determining the statement's adequacy are included as an attachment to this solicitation. Any bid that fails to include the required statement shall be rejected as nonresponsive. The IHA may require that comparable statements be provided by subcontractors to the successful Contractor, and may require the Contractor to reject any bid or proposal by a subcontractor that fails to include the statement.

(2) Bidders and prospective subcontractors shall submit a certification (supported by credible evidence) to the IHA in any instance where the bidder or subcontractor believes it is infeasible to provide Indian preference in subcontracting. The acceptance or rejection by the IHA of the certification shall be final. Rejection shall disqualify the bid from further consideration.

(g) All bidders must submit with their bids a statement detailing their employment and training opportunities and their plans to provide preference to Indians in implementing the contract; and the number or percentage of Indians anticipated to be employed and trained. Comparable statements from all proposed subcontractors must be submitted. The criteria to be used by the IHA in determining the statement(s)'s adequacy are included as an attachment to this solicitation. Any bid that fails to include the required statement(s), or that includes a statement that does not meet minimum standards required by the IHA shall be rejected as nonresponsive.

(h) Core crew employees. A core crew employee is an individual who is a bona fide employee of the contractor at the time the bid is submitted; or an individual who was not employed by the bidder at the time the bid was submitted, but who is regularly employed by the bidder in a supervisory or other key skilled position when work is available. Bidders shall submit with their bids a list of all core crew employees.

(i) Preference in contracting, subcontracting, employment, and training shall apply not only on-site, on the reservation, or within the IHA's jurisdiction, but also to contracts with firms that operate outside these areas (e.g., employment in modular or manufactured housing construction facilities).

(j) Bidders should contact the IHA to determine if any additional local preference requirements are applicable to this solicitation.

(k) The IHA [] does [] does not [Contracting Officer check applicable box] maintain lists of Indian-owned economic enterprises and Indian organizations by specialty (e.g., plumbing, electrical, foundations), which are available to bidders to assist them in meeting their responsibility to provide preference in connection with the administration of contracts and subcontracts.

**SECTION 00 21 00
SUPPLEMENTAL INSTRUCTIONS TO BIDDERS**

PART 1 GENERAL

1.01 SUPPLEMENTS

- A. The following supplements modify, change, delete from or add to the "Instructions to Bidders for Contracts, Public and Indian Housing Programs". HUD-5369, 10/2002. All other clauses remain enforced.

1.02 CONDITIONS AFFECTING THE WORK

- A. Each bidder shall make a careful examination of the Plans and Specifications, visit the sites of the proposed construction and acquaint himself with all the conditions before submitting his proposal. He/she will be held responsible for any and all errors in his proposal resulting from his failure to make such examination. No "Request for Extras" will be entertained as a result of the bidder failing to examine the Plans and Specifications and inspecting the site. Any discrepancies between actual field conditions and work specified in Contract Documents shall be brought to the attention of the Architect prior to bidding. The Contractor shall be responsible for verifying all conditions and dimensions and shall be responsible for this work conforming to existing conditions. In order to facilitate site examinations, the Architect will be available to accompany bidders on the date and time as stated in the Pre-Bid Site Visit/Accessibility paragraph on page 00 10 00 NOTICE TO BIDDERS.
- B. By submission of a bid, a bidder warrants that he has visited the site to investigate the actual site conditions and made a careful examination of the Plans and Specifications. Additionally, the successful bidder agrees to enter into a Form of Agreement Between the Owner and Contractor as prescribed in 00 52 00 FORM OF CONTRACT. See Section 00 80 00 SUPPLEMENTARY GENERAL CONDITIONS for sales tax status.

1.03 BID GUARANTEE

- A. A bid guarantee for an amount of not less than five percent (5%) of the base bid and all add alternates shall be submitted with the proposal. The submitted guarantee shall be forfeited in case of failure of any bidder to enter into the Contract and furnish a satisfactory bond or guarantee in an amount equal to the Contract price within ten (10) days after notification of the acceptance of his proposal. The bid guarantee shall be a certified check, bank draft, U.S. Government Bonds at par value or a bid bond secured by a surety company. The surety or indemnity company must be authorized to do business in the State of Indiana. See Section 00 80 00 SUPPLEMENTARY GENERAL CONDITIONS; 1.04 APPROVED SURITY.

1.04 WAGE RATES

- A. Wage rates on this work shall not be less than the prescribed scale of wages as determined pursuant to the provisions of the U.S. Department of Housing and Urban Development. Refer to 00 21 50 PREVAILING WAGE REQUIREMENTS included herein.
- B. Documentation of payroll and fringe benefits will be required for this project. The Contractor and its Subcontractors will be required to complete and submit either Payroll Form (WH-347) (manual payroll systems) or Statement of Compliance (WH-348) (computerized payroll system) for each work week during the course of the work. Review of these documents and requirements will be included at the pre-construction conference.

1.05 REQUIREMENTS FOR SIGNING PROPOSALS, BID BOND, AND PERFORMANCE AND PAYMENT BONDS

- A. Submitted by an Individual
- B. When submitted by an individual, said proposal shall be signed by the person making such proposal or the proposal must have attached thereto a Power-of-Attorney evidencing authority to sign the bid in the name of the person for whom it is signed.
- C. Submitted by a Partnership

1. When submitted by a partnership, said proposal shall be signed by all of the partners or by an Attorney-In-Fact. If signed by an Attorney-In-Fact, there must be attached to the proposal a Power-of-Attorney for the individuals for whom it is signed.
- D. Submitted by a Corporation
1. When submitted by a Corporation, said proposal shall have the correct corporate name thereof and the signature of the president or other authorized officer of the corporation manually written below the corporate name, the attesting signature of the secretary of the corporation and shall have affixed the impression of the corporate seal. If such proposal is manually signed by an official other than the president of the corporation, a certified copy of a resolution of the board of directors evidencing the authority of such official to sign the bid should be attached.

1.06 WITHDRAWAL OF PROPOSALS

- A. Any bidder may withdraw his proposal at any time prior to the opening of bids.

1.07 PROPOSAL IRREGULARITIES

- A. Any error and/or omission in the proposal form or any other irregularity as a result of negligent preparation shall not furnish cause for relief for any damages resulting therefrom nor in any way relieve the Contractor from fulfillment of all contractual obligations as provided for in the Contract Documents.

1.08 COMPLETION TIME CONSIDERATION

- A. The anticipated date for award of the project is January 3, 2025. All work must be completed by June 30, 2025, including close-out documents, punch list repairs, and Owner training.

1.09 SUBSTANTIAL COMPLETION

- A. Substantial Completion is the stage in the progress of the work when the work or designated portion thereof is sufficiently complete in accordance with the Contract Documents so the Owner can occupy or utilize the work for its intended use.

1.10 ALTERNATES

- A. Each bidder must provide a bid on all alternates listed in the Specifications (see Section 01 23 00) or noted on the Plans.
- B. The price to be added and/or deducted shall include all labor, materials, equipment, services, facilities and all other items required to complete the work as indicated on the Drawings and as specified herein.
- C. Each bidder is encouraged to submit voluntary alternates for materials, procedures and equipment that benefit the project and produce a savings to the Owner.

1.11 UNIT PRICES

- A. All unit prices listed on the bid form shall be included with the submission of the bid. Unit pricing found not to be in the best interest of the Elkhart Housing Authority may be grounds for rejection of proposal.
- B. All unit prices quoted shall include the sum of all additional costs of labor, materials, overhead, profit, fees and such other costs incidental to the work described.
- C. Unit prices shall be used to replace products, materials, etc., which cannot be repaired or reused as indicated on the Drawings and Specifications. Unit prices shall also be used to repair or replace products, materials, etc., which have been found unacceptable during field surveys and inspections after the Contract has been awarded, but prior to performing the addition work.

1.12 "OR EQUAL"

- A. Where the phrase "or equal", or "or equal as approved by the Architect" or "or Architect approved equal" occurs in the Contract Documents, do not assume that material, equipment or methods will be approved as equal by the Architect unless the item has been approved for this work in writing by the Architect.

- B. If “equal” products are permitted by the Contract Documents, submit all relevant technical information necessary to evaluate said products versus the specified products to the Architect a minimum of ten (10) business days prior to the bid due date.
- C. Any products which have not been reviewed by the Architect within the time frame noted above which the Contractor desires to use will be considered substitution requests and will be governed by Section 01 60 00 SUBSTITUTIONS.

1.13 FEES, PERMITS AND TAXES

- A. Bids prices and alternates shall include the cost of all permits, inspections, mandatory testing, and related fees.
- B. This program is not subject to Indiana State Sales Tax, Use Tax and Federal Excise Tax on materials used in construction.

1.14 RESPONSIBILITY OF PROSPECTIVE CONTRACTOR

- A. In addition to the Housing Authority's proposal form, include Form 96, Contractor's Bid for Public Work. Refer to pages 00 42 00-1 thru 00 42 00-6.

1.15 FORM OF CONTRACT

- A. The Agreement Form between the Housing Authority and the Contractor shall be per the Housing Authority’s approved Contract form, where the basis of payment is a stipulated sum. See Section 00 52 00 FORM OF CONTRACT.

1.16 SUBMITTAL REQUIREMENTS AT TIME OF BID SUBMITTAL

- A. From time to time, the Owner finds it necessary to reject a bid because it does not comply with HUD requirements. In preparing your bid, please use the following checklist in order to make sure the bid has been prepared in the proper manner. ALL BIDS SHALL INCLUDE ONE ORIGINAL AND ONE COPY OF ALL OF THE FOLLOWING:

- _____ Proposal for Construction form (refer to pages 00 41 00-1 and 00 41 00-2) properly executed and notarized, including all Alternates and Unit Prices.
- _____ Contractor's Bid for Public Work - Form 96 (refer to pages 00 42 00-1 thru 00 42 00-6).
- _____ Acknowledgment of all Addenda on Proposal form.
- _____ Completion Time reference on Proposal form for base bid and each alternate to obtain substantial completion.
- _____ Bidders shall review the requirements for alternates, allowances, unit prices, and include all in their bid.
- _____ Equal Employment Opportunity/Affirmative Action Statement of Policy (refer to page 00 45 00-1).
- _____ Certificate as to Corporate Principal (page 00 45 00-2) (if bid is submitted by a Corporation).
- _____ MBE/WBE Clause Certification (refer to pages 00 45 00-3 thru 00 45 00-4).
- _____ MBE/WBE Clause Certification: Schedule of Intended Participation (refer to page 00 45 00-5). Schedule may be submitted at time of bid submittal or submitted to the Architect within five (5) calendar days after the time and date of bid submittal (see page 00 10 00 NOTICE TO BIDDERS).
- _____ MBE/WBE Clause Certification: Certificate of Good Faith Efforts (refer to page 00 45 00-6).
- _____ Representations, Certifications, and Other Statements of Bidders (HUD-5369-A, pages 1-3) (see page 00 45 00-7).
- _____ Non-Debarred Certification (refer to page 00 45 00-8) or proof of active registration with the U.S. Government System for Award Management.
- _____ Proposed Subcontractors and Suppliers (refer to page 00 45 00-9).

- _____ Proposed Wage Rates for unlisted classifications (refer to page 00 45 00-10). Rates may be submitted at time of bid or submitted to Architect within five (5) calendar days of time and date of bid submittal.
- _____ Drug-Free Workplace Certificate (refer to pages 00 45 00-13 and 00 45 00-14).
- _____ Evidence of active and current status under System Award Management (SAM).
- _____ Proposals shall be enclosed in a sealed envelope, properly labeled with the project name and forwarded with adequate time to enable it to arrive before the time and date noted on 00 10 00 NOTICE TO BIDDERS to:

**GENERATOR REPLACEMENT
RIVERSIDE & WATERFALL HIGH-RISES
ELKHART HOUSING AUTHORITY
ELKHART, INDIANA**

**DELIVER TO:
MS. ANGELIA M. WASHINGTON
EXECUTIVE DIRECTOR
ELKHART HOUSING AUTHORITY
1396 BENHAM AVENUE
ELKHART, INDIANA 46516**

**ALL BIDS RECEIVED AFTER THE LEGALLY PUBLISHED DEADLINE WILL BE REJECTED.
END OF SECTION**

00 21 50 PREVAILING WAGE REQUIREMENTS

- A. Prevailing wage requirements for these projects have been determined by the U.S. Department of Labor and have been adopted by the U.S. Department of Housing and Urban Development and the Elkhart Housing Authority. Wage rates for these projects shall not be less than the prescribed scale of wages included herein:

General Decision Number IN20250005
Modification Number 0, Dated 01/03/2025

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards clauses (Title 29, part 5. CFR).

For purposes of submitting a bid, unlisted classifications shall be included as proposed on 00 45 00-13 PROPOSED WAGE RATE FOR UNLISTED CLASSIFICATIONS.

B. Prevailing Wages

Prevailing wages must be paid to all employees working on the job site. The Contractor is responsible for paying the applicable wage rates and ensure that any subcontractors pay the applicable rates. The Federal Labor Standard Provisions as well as the general wage determination must be included in subcontractor and lower-tier subcontractor contracts.

C. Payroll Report

The Contractor shall submit a certified payroll report and compliance statement to the Elkhart Housing Authority each week during the contract period. If no work is performed on the project during a given week, submit payrolls indicating "No Work". Weekly payrolls shall be numbered sequentially and the final payroll marked "final".

On the first payroll submitted, the address and social security number must be reported for each employee, updated for each new employee used during the project.

D. On-Site Employee Interviews

The enforcement of labor standards provisions is as important as other requirements of the contract specifications, and that compliance with such labor standards is mandatory by contractors and subcontractors. The Elkhart Housing Authority will be on the job site conducting employee interviews to ensure compliance with Federal Regulations. Each employee must be able to show their wage rate via payroll stubs and other acceptable means.

E. Posting

The U.S. Department of Labor "Red Poster" (WH-1321) will be required to be posted on the job site along with the General Wage Decision for this project. This posting informs employees of their rights and indicates that complaints will be received by the Elkhart Housing Authority. Your cooperation in this matter is mandatory.

"General Decision Number: IN20250005 01/03/2025

Superseded General Decision Number: IN20240005

State: Indiana

Construction Type: Building

Counties: Elkhart, Jasper, Kosciusko, Lagrange, Marshall, Newton, Pulaski and Starke Counties in Indiana.

LAGRANGE COUNTY

BUILDING CONSTRUCTION PROJECTS (does not include single family homes and apartments up to and including 4 stories).

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(1).

<p>If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:</p>	<p>. Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least \$17.75 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2025.</p>
<p>If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:</p>	<p>. Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least \$13.30 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2025.</p>

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at

http://www.dol.gov/whd/govcontracts.

Modification Number Publication Date
 0 01/03/2025

ASBE0017-008 06/01/2024

NEWTON COUNTY:

	Rates	Fringes
ASBESTOS WORKER/HEAT & FROST INSULATOR.....	\$ 55.02	35.75
HAZARDOUS MATERIAL HANDLER (INCLUDES PREPARATION, WETTING, STRIPPING REMOVAL SCRAPPING, VACUUMING, BAGGING AND DISPOSAL OF ALL INSULATION MATERIALS, WHETHER THEY CONTAIN ASBESTOS OR NOT, FROM MECHANICAL SYSTEMS).....	\$ 44.02	32.76

 ASBE0041-001 07/01/2024

LAGRANGE COUNTY

	Rates	Fringes
HAZARDOUS MATERIAL HANDLER (includes preparation, wettings, stripping, removal, scrapping, vaccuming, bagging & disposing of all insulation materails, whether they contain asbestos or not, from mechanical systems).....	\$ 35.10	19.39
Insulator/asbestos worker (Includes application of all insulating materials, protective coverings, coatings and finishings to all types of mechanical systems).....	\$ 35.10	19.39

 ASBE0075-001 06/01/2023

REMAINING COUNTIES

	Rates	Fringes
ASBESTOS WORKER/HEAT & FROST INSULATOR.....	\$ 39.00	27.54
HAZARDOUS MATERIAL HANDLER (includes preparation, wetting, stripping, removal, scrapping, vaccuming, bagging, and disposal of all insulation materials, whether they contain asbestos or not, from mechanical systems).....	\$ 39.00	27.54

BOIL0374-004 01/01/2024

	Rates	Fringes
BOILERMAKER.....	\$ 42.41	35.72

BRIN0006-001 06/01/2023

JASPER, NEWTON & STARKE COUNTIES

	Rates	Fringes
BRICKLAYER (Including Stonemason, and Pointer, Caulker & Cleaner).....	\$ 42.05	28.22
Tile, Marble & Terrazzo Worker...	\$ 42.05	28.22

BRIN0018-003 06/01/2023

MARSHALL and PULASKI COUNTIES

	Rates	Fringes
Bricklayer, Caulker, Cleaner, Pointer.....	\$ 34.00	19.71
Terrazzo Worker Finisher.....	\$ 32.50	21.11
TERRAZZO WORKER/SETTER.....	\$ 34.50	23.62
Tile & Marble Finisher.....	\$ 32.50	21.11
Tile, Marble Setter.....	\$ 34.50	23.62

BRIN0018-004 06/01/2021

	Rates	Fringes
BRICKLAYER		
BRICKLAYERS, POINTER, CLEANER & CAULKERS.....	\$ 31.11	18.40
TERRAZZO FINISHERS.....	\$ 30.00	15.54
TILE AND MARBLE FINISHERS...	\$ 31.00	19.16
TILE AND MARBLE WORKERS.....	\$ 33.00	22.33

CARP0232-002 06/01/2024

Lagrange County

	Rates	Fringes
Carpenter & Piledrivermen.....	\$ 31.74	24.48

CARP0413-001 06/01/2024

ELKHART, KOSCIUSKO and MARSHALL COUNTIES

	Rates	Fringes
Carpenter & Piledrivermen.....	\$ 33.11	24.28

CARP1010-001 06/01/2024

JASPER, NEWTON, PULASKI & STARKE COUNTIES

Rates Fringes

CARPENTER.....	\$ 43.58	34.66
MILLWRIGHT.....	\$ 45.68	35.63

 CARP1029-001 06/01/2024

ADAMS, ALLEN, CASS, DEKALB, ELKHART, FULTON, GRANT, HOWARD,
 HUNTINGTON, KOSCIUSKO, LAGRANGE, MARSHALL, MIAMI, NOBLE, ST.
 JOSEPH, STEUBEN, TIPTON, WABASH, WELLS and WHITLEY COUNTIES

	Rates	Fringes
MILLWRIGHT.....	\$ 33.90	29.08

 ELEC0153-003 06/01/2023

ELKHART, KOSCIUSKO and MARSHALL COUNTIES

	Rates	Fringes
Communication Technician.....	\$ 26.50	18.33
ELECTRICIAN.....	\$ 38.00	26.47

Includes the installation, operation, inspection, modification, maintenance and repair of systems used for the transmission and reception of signals of any nature, for any purpose, including but not limited to , sound and voice transmission/transference systems, communication systems that transmit or receive information and /or control systems, television and video systems, micro-processor controlled fire alarm systems, and security systems and the performance of any task directly related to such installation or service. The scope of work shall exclude the installation of electrical power wiring and the installation of conduit raceways exceeding fifteen (15) feet in length.

 ELEC0305-001 12/01/2023

LAGRANGE COUNTIES

	Rates	Fringes
ELECTRICIAN.....	\$ 38.31	27.43%+10.66

 ELEC0531-002 05/31/2023

JASPER, PULASKI, and STARKE COUNTIES

	Rates	Fringes
ELECTRICIAN.....	\$ 43.50	30.64

 ELEC0697-002 06/01/2024

NEWTON COUNTY

	Rates	Fringes
ELECTRICIAN.....	\$ 48.10	31.28

ELEC0697-005 08/31/2024

NEWTON COUNTY

	Rates	Fringes
Telecommunication Technician.....	\$ 39.50	29.87

Work covers low voltage installation, maintenance and removal of telecommunication facilities (voice, sound, data and video) including, telephone and data inside wire, interconnect, terminal equipment, central offices, PABX, fiber optic cable and equipment, micro waves, V/SAT, bypass, CATV, WAN (wide area networks), LAN (local area networks), and ISDN (integrated system digital network). Work does not cover any work which properly comes under the work description of Inside JW (Journeyman Wireman), but shall cover the pulling of wire in raceways, ut not the installation of raceways.

ELEV0034-005 01/01/2024

JASPER, NEWTON and PULASKI COUNTIES

	Rates	Fringes
ELEVATOR MECHANIC.....	\$ 57.68	37.885+a+b

- a) PAID HOLIDAYS: New Year's Day, Memorial Day, Independence Day, Labor Day, Vetern's Day, Thanksgiving Day, the Friday after Thanksgiving, and Christmas Day.
- b) Employer contributes 8% of regular hourly rate to vacation pay credit for employee with more than 5 years of service; 6% for less than 5 years' service.

ELEV0044-003 01/01/2024

ELKHART, KOSCIUSKO, LAGRANGE, MARSHALL and STARKE COUNTIES

	Rates	Fringes
ELEVATOR MECHANIC.....	\$ 59.71	37.885+a+b

- a) PAID HOLIDAYS: New Year's Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, the Friday after Thanksgiving, and Christmas Day.
- b) Employer contributes 8% of regular hourly rate to vacation pay credit for employee with more than 5 years of service; 6% for less than 5 years' service.

ENGI0150-002 06/01/2024

	Rates	Fringes
POWER EQUIPMENT OPERATOR ELKHART, KOSCIUSKO,		

LAGRANGE AND MARSHALL
COUNTIES

GROUP 1.....	\$ 33.15	37.30
GROUP 2.....	\$ 31.80	37.30
GROUP 3.....	\$ 31.00	37.30
GROUP 4.....	\$ 30.20	37.30
GROUP 5.....	\$ 27.60	37.30

JASPER, NEWTON, PULASKI &
STARKE COUNTIES

GROUP 1.....	\$ 46.55	44.48
GROUP 2.....	\$ 45.75	44.48
GROUP 3.....	\$ 41.45	44.48
GROUP 4.....	\$ 39.25	44.48
GROUP 5.....	\$ 33.80	44.48

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Mechanic, Asphalt Plant, Auto Grader; Batc Plant, Benoto (requires 2 Engineers), Boiler and Throttle Valve, Boring Machine, (Mining machine Caisson Rigs, Central Redi-mix Plant, Combination Backhoe, Endloader with Backhoe Bucket over 1/2 cu. yd., Combination Tugger Hoist and Air Compressor, Compressor and Throttle, Concrete Breaker (Truck Mounted), Concrete Conveyor (truck mounted), Concrete Paver 27E cu. ft. and under, Concrete Paver over 27E cu. ft., Concrete Pump/grout pump with boom (Truck Mounted), Concrete Tower, Cranes and backhoes (all), Cranes, Hammerhead Tower, Crete Crane, Derricks (all), Derricks (traveling) Forklift, Lull Type, Forklift (10 ton & over, Hoist 1, 2, and 3 drums, Hoist, 2 Tugger one floor, Hydraulic Boom Truck, :aser screed, Locomotives, All Motor Patrol, Mucking Machine, Pile Driving & Skid Rig, Pit Machines, Pre-Stress Machines, Pump Cretes & Similar Types, Rock Drill (Self- Propelled), Rock Drill (Truck Mounted), Slip-Form Paver, Straddle Buggies, Tractor with Boom & Side Boom, Trenching Machine, Winch Tractor

GROUP 2: Air compressors (30 feeding and common receivers, Asphalt Spreader, Boilers, Bulldozers, Combination Backhoe-end loader with Backhoe bucket 1/2 cu. ft. an under, Grader-Elevating, Greaser Engineer, Guard rail post driver, Grouting Machines; Highlift Shovels or Front Endloader Hoist (automatic), Corboy Drilling Machines, Hoist (all Elevators), Hoists drawn, Stone Crushers, Tounapull, Winch Trucks, Tugger single frum, post hole digger, rollers (all), scoops, tractor drawn .

GROUP 3: Concrete Mixer (2 bag and over), Conveyor, Portable, Steam Generators, Tractors (farm and similar type), Air Compressor (small 150 and under - 1 to 5 to exceed a total of 300 ft., Air Compressor (large over 150), Combination (small equipment operator), Forklift (under 10 tons), Generator, Pumps (1 to 3 not to exceed a total of 300 ft., Pumps (well points), Welding Machines (2 through 5, Winches (4 electric Drill Winches).

GROUP 4: Heaters, Mechanical (1 to 5), Oilers, Swithmen, Bull Gang (crane erection crew).

GROUP 5: Forklifts

For ELKHART, KOSCIUSKO, LAGRANGE AND MARSHALL COUNTIES

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Mechanic, Asphalt Plant, Asphalt Spreader, Auto Grader; Batch Plant, Benoto (requires 2 Engineers), Boiler and Throttle Valve, Boring Machine (road), Bulldozers with engines of 140net horsepower or more, Caisson Rigs, Central Redi-mix plant, Concrete Conveyor Systems, Concrete Paver (over 27E cu. ft.), Conctete Paver (27E cu. ft. and under), Concrete placer, concrete placing boom, Concrete Pumps (Truck Mounted), Concrete Tower, Cranes and backhoes (all attachments), Cranes, Hammerhead, Creter Crane, Derricks (all), Forklift (capble of hoisting and mechanically moving forks horizontally), Grader, Elevating, Highlift Shovels or Front End Loaders, Hoists (2 or more drums), Lazer screed, Locomotives (all), Motor Patrol, Pile Drivers and Skid Rig, Pre-Stress Machines, Rock Drill (Self- Propelled), Rock Drill (Truck Mounted), Scoops (tractor drawn), Slip-form Paver, Tournapull, Tractor with Boom & Side Boom, Trenching Machine (12 or more inches in width), Combination Backhoe Front End Loader Machine with 1/2 cu. yd. or attachments.

GROUP 2: Air Compressor (600 cu. ft. and over), Bob Cat (over 3/4 cu. yd.), Boilers, Broom (all powered propelled), Bull Dozers with engines less than 140 net horsepower, Combination backhoe frontend machine 1/2 cu yd backhoe bucket oir under or with attachments Compressor and Throttle Valve, Concrete Breaker (truck mounted), Concrete Mixer (of moore than 21 cu. ft. capacity), Forklift (with fixed or tilt mast), Greaser, Highlift shovel or frontend loader (3 yd bucket and under), Hoists (1 drum), Hydraulic Boom Truck, Post Hole Digger (vehicle mounted), Pumps Cretes (squeeze crete type pumps, Gypsum bulker and pump), Rollers (all), Steam Generators, Stone Crushers, Straddle Buggies, Tractors, Winch Trucks (with ""a"" frame).

GROUP 3: Buck Hoist, Combination (small equipment operator), Conveyor (portable), Grouting Machine, Hoist Elevators (material and personnel), Hydraulic Power Units, Grouting and Pile Driving, Stud Welder, Trenching Machines less than 12 inches in width, Welding Machines (8 through 15).

GROUP 4: Bobcat (up to and including 3/4 cu. yd.). Compressor (over 210 cu. ft. and less than 600 cu. ft.), Generator (over 50 kw.), Heaters, Mechanical, Hoists (all elevator, permanent installation), Hoist (automatic), Hoist (tugger single drum), Oilers, Pumps, Well Points and electric submersible, Small Rubber Tired End Loaders (1/4 cu. yd. and under), Tractors (farm type) Welding Machines (2 through 8).

GROUP 5: Bobcats and forklifts (commercial or residential

IRON0022-007 06/01/2024

JASPER (SOUTHEASTERN 1/2), NEWTON (SOUTHERN HALF), PULASKI (REMAINDER OF COUNTY)

Rates Fringes

IRONWORKER.....\$ 36.70 26.09

The following holidays shall be observed: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and the day after Thanksgiving and Christmas Day. Any holiday which occurs on a Sunday shall be observed the following Monday, unless the legal observance of these holidays is changed by law.

IRON0147-005 06/01/2024

KOSCIUSKO (REMAINDER OF COUNTY) and LAGRANGE (REMAINDER OF COUNTY)

	Rates	Fringes
IRONWORKER.....	\$ 34.20	26.39

IRON0292-004 06/01/2024

ELKHART, KOSCIUSKO (Northwest Half excluding Warsaw), LAGRANGE (Western Half including city of Lagrange), MARSHALL, MIAMI (Northwestern Tip), NOBLE (Northwestern Tip), PULASKI (Northeast Half), and STARKE COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 37.83	24.75

IRON0395-002 06/01/2024

JASPER (NORTHERN 1/2), NEWTON (NORTHERN 1/2), PULASKI (NORTHWESTERN TIP) COUNTIES

	Rates	Fringes
IRONWORKER		
IRONWORKERS.....	\$ 46.33	39.67
SHEETER.....	\$ 46.58	39.67

LABO0041-002 06/01/2024

JASPER and NEWTON COUNTIES

	Rates	Fringes
Laborers:		
GROUP 1.....	\$ 39.26	28.90
GROUP 2.....	\$ 40.75	28.90
GROUP 3.....	\$ 41.26	28.90

LABORER CLASSIFICATIONS

GROUP 1: Building and Construction Laborers; Scaffold Builders (other than for Mason or Plasterers); Mechanic Tenders; Rodmen and Chainmen, Railroad Workers, Masonry Wall Workers, (interior & exterior); Roofer Tenders, Cement

Finisher Tenders, Carpenter Tenders, Portable Water, Pumps with discharge up to 3 inches; Waterproofing; Hauling of Creosote Lumber or Lutemen; Asphalt Rakers; Kettlem, Earth Compactors; Jackman and Sheetmen in Ditches more than 6 ft. deep; Laborers in ditches 6' deep or deeper; Assembly of Uncrete Pump; Tile Layers (sewer or field); Sewer Pipe Layers; Motor driven Wheelbarrows and Concrete Buggies; Hyster Operator; Pump Crete Assemblers; Core Drill Operator; Cement, Line or Silica Clay Handers; Handling of Toxic Materials damaging to clothing; Pneumatic Spikers; Deck Engine and Winch Operator; Water Main and Cable Ducking; Screed Man or Screw Operator on Asphalt Paver; Chain Saw and Demolition Saw Operator; Concrete Conveyor Assembler.

GROUP 2: Plaster Tenders, Masons Tenders; Mortar Mixers; Welders (acetylene or electric); Cutting Torch or Burner; Cement Nozzle; Cement Gun; Scaffold Builders when working for Plasterers, and Mason; Water Blast Machine Operator; Air Tool Operators and all Pheumatic Tool Operators; Air and Electric Vibrators and Chipping Hammer Operators; Asbestos Removal; Hazardous Waste Removal

GROUP 3: Dynamite Men; Drillers, Air Track or Wagon Drilling for explosives; Laborer Specialist

LAB00081-005 06/01/2024

STARKE COUNTY

	Rates	Fringes
LABORERS		
GROUP 1.....	\$ 39.26	28.90
GROUP 2.....	\$ 40.01	28.90
GROUP 3.....	\$ 40.26	28.90

LABORER CLASSIFICATIONS (BUILDING CONSTRUCTION)

GROUP 1: Building and Construction Laborers; Scaffold Builders (other than for Mason or Plasterers); Mechanic Tenders; Rodmen and Chainmen, Railroad Workers, Masonry Wall Workers, (interior & exterior); Roofer Tenders, Cement Finisher Tenders, Carpenter Tenders, Portable Water, Pumps with discharge up to 3 inches; Waterproofing; Hauling of Creosote Lumber or Lutemen; Asphalt Rakers; Kettlem, Earth Compactors; Jackman and Sheetmen in Ditches more than 6 ft. deep; Laborers in ditches 6' deep or deeper; Assembly of Uncrete Pump; Tile Layers (sewer or field); Sewer Pipe Layers; Motor driven Wheelbarrows and Concrete Buggies; Hyster Operator; Pump Crete Assemblers; Core Drill Operator; Cement, Line or Silica Clay Handers; Handling of Toxic Materials damaging to clothing; Pneumatic Spikers; Deck Engine and Winch Operator; Water Main and Cable Ducking; Screed Man or Screw Operator on Asphalt Paver; Chain Saw and Demolition Saw Operator; Concrete Conveyor Assembler.

GROUP 2: Plaster Tenders, Masons Tenders; Mortar Mixers; Welders (acetylene or electric); Cutting Torch or Burner; Cement Nozzle; Cement Gun; Scaffold Builders when working

for Plasterers, and Mason; Water Blast Machine Operator; Air Tool Operators and all Pneumatic Tool Operators; Air and Electric Vibrators and Chipping Hammer Operators; Asbestos Removal; Hazardous Waste Removal

GROUP 3: Dynamite Men; Drillers, Air Track or Wagon Drilling for explosives; Laborer Specialist

LAB00274-002 06/01/2024

PULASKI COUNTY

	Rates	Fringes
Laborers:		
GROUP 1.....	\$ 26.98	18.00
GROUP 2.....	\$ 27.73	18.00
GROUP 3.....	\$ 28.48	18.00

LABORER CLASSIFICATIONS

GROUP 1: Building and Construction Laborers; Scaffold Builders (other than for Mason or Plasterers); Mechanic Tenders; Rodmen and Chainmen, Railroad Workers, Masonry Wall Workers, (interior & exterior); Roofer Tenders, Cement Finisher Tenders, Carpenter Tenders, Portable Water, Pumps with discharge up to 3 inches; Waterproofing; Hauling of Creosote Lumber or Lutemen; Asphalt Rakers; Kettlem, Earth Compactors; Jackman and Sheetmen in Ditches more than 6 ft. deep; Laborers in ditches 6'deep or deeper; Assembly of Uncrete Pump; Tile Layers (sewer or field); Sewer Pipe Layers; Motor driven Wheelbarrows and Concrete Buggies; Hyster Operator; Pump Crete Assemblers; Core Drill Operator; Cement, Line or Silica Clay Handers; Handling of Toxic Materials damaging to clothing; Pneumatic Spikers; Deck Engine and Winch Operator; Water Main and Cable Ducking; Screed Man or Screw Operator on Asphalt Paver; Chain Saw and Demolition Saw Operator; Concrete Conveyor Assembler.

GROUP 2: Plaster Tenders, Mortar Mixers; Welders (acetylene or electric); Cutting Torch or Burner; Cement Nozzle; Cement Gun; Scaffold Builders when working for Plasterers, and Mason; Water Blast Machine Operator; Air Tool Operators and all Pneumatic Tool Operators; Air and Electric Vibrators and Chipping Hammer Operators; Asbestos Removal; Hazardous Waste Removal.

GROUP 3: Dynamite Men; Drillers, Mason Tenders; Air Track or Wagon Drilling for explosives; Laborer Specialist.

LAB00645-003 06/01/2024

BUILDING CONSTRUCTION

REMAINING COUNTIES

	Rates	Fringes
Laborers:		

GROUP 1.....	\$ 28.43	18.00
GROUP 2.....	\$ 28.93	18.00
GROUP 3.....	\$ 30.43	18.00

BUILDING CONSTRUCTION

GROUP 1: Building and Construction Laborers; Scaffold Builders (other than for Plasterers); Mechanic Tenders; Window Washers and cleaners; Waterboys and Toolhousemen; Roofers Tenders; Railroad Workers; Masonry Wall Washers (interior and exterior); Cement Finisher Tenders; Carpenter Tenders; All Portable Water pumps with discharge up to (3) inches; Plaster Tenders; Flag & Signal Person.

GROUP 2: Waterproofing; Handling of Creosot Lumber or like treated material (excluding railroad material); Asphalt Rakers and Lutemen; Kettlemen; Air Tool Operators and all Pneumatic Tool Operators; Air and Electric Vibrators and Chipping Hammer Operators; Earth Compactors Jackmen and Sheetmen working Ditches deeper than (6) ft.in depth; Laborers working in ditches (6) ft.in depth or deeper; Assembly of Unicrete Pump; Tile Layers (sewer or field) and Sewer Pipe Layer (metallic or non-metallic); Motor driven Wheelbarrows and Concrete Buggies; Hyster Operators; Pump Crete Assemblers; Core Drill Operators; Cement, Lime or Silica Clay Handlers (bulk or bag); Handling of Toxic Materials damaging to clothing; Pneumatic Spikers; Deck Engine and Winch Operators; Water Main and Cable Ducking (metallic and non-metallic); Screed Man or Screw Operator on Asphalt Paver; Chain and Demolition Saw Operators; Concrete Conveyor Assemblers.

GROUP 3: Water Blast Machine Operator; Mortar Mixers; Welders (Acetylene or electric); Cutting Torch or Burner; Cement Nozzle. Laborers; Cement Gun Operator; Scaffold Builders when Working for Plasterers. Dynamite Men; Drillers - Air Track or Wagon Drilling for explosives Hazardous and Toxic material handler, Mason Tenders, asbestos removal or handler.

PAIN0027-005 06/01/2024

NEWTON COUNTY, West of Highway #41

	Rates	Fringes
GLAZIER.....	\$ 51.55	43.99

PAIN0091-006 06/01/2024

	Rates	Fringes
PAINTER		
Brush & Roller, Drywall		
Taping & Finishing,		
Vinyl/Paper Hanging.....	\$ 31.00	18.62
Spray.....	\$ 31.50	18.62

PAIN0460-001 06/01/2024

JASPER, NEWTON, PULASKI AND STARKE COUNTIES:

	Rates	Fringes
Painters:		
Brush & Roller.....	\$ 39.00	28.76
Drywall Finisher.....	\$ 39.80	30.96

PAIN0469-003 06/01/2023		

LAGRANGE COUNTY

	Rates	Fringes
Painters:		
Brush, Roller, Paperhanger, & Drywall Finishing.....	\$ 25.04	15.32
Lead Abatement.....	\$ 30.24	15.32
Spray & Sandblast Pot Tenders and Ground Personnel.....	\$ 25.04	15.32
Spray, Sandblast, Power Tools, Waterblast, & Steam Cleaning.....	\$ 25.04	15.32

PAIN1165-006 07/01/2024		

JASPER, NEWTON (EAST OF HIGHWAY #41)

	Rates	Fringes
GLAZIER.....	\$ 42.09	29.23

PAIN1165-011 07/01/2024		

ELKHART, KOSCIUSKO, LAGRANGE, MARSHALL, PULASKI, and STARKE COUNTY

	Rates	Fringes
GLAZIER.....	\$ 32.22	23.57

PLAS0101-004 06/01/2018		

MARSHALL COUNTY AND PULASKI (SOUTHERN 1/2)

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 28.84	14.48
PLASTERER.....	\$ 26.81	12.40

PLAS0101-005 06/01/2018		

ELKHART, KOSCIUSKO AND LAGRANGE COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 28.84	14.48
PLASTERER.....	\$ 25.69	11.75

PLAS0165-002 07/01/2018		

NEWTON COUNTY

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 37.28	18.53
PLASTERER.....	\$ 32.70	17.70

 PLAS0406-002 07/01/2018

JASPER (REMAINDER OF COUNTY, INCLUDING WHEATFIELD), PULASKI (N 1/2) and STARKE COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 35.48	21.68
PLASTERER.....	\$ 33.28	17.32

 PLAS0438-002 06/01/2018

PULASKI (NORTHERN 2/3), JASPER (N. EASTERN PORTION OF, WEST TO, BUT NOT INCLUDING WHEATFIELD), STARKE (ENTIRETY)

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 36.01	25.40

 PLUM0166-002 06/01/2024

ELKHART, KOSCIUSKO, and LAGRANGE COUNTIES

	Rates	Fringes
PLUMBER.....	\$ 41.50	21.66

 PLUM0172-001 06/01/2024

JASPER (S of the N. Side of the City of Rensselear), MARSHALL, PULASKI and STARKE COUNTIES

	Rates	Fringes
Plumber, Pipefitter, Steamfitter.....	\$ 40.78	23.09

 PLUM0210-003 09/01/2024

JASPER (to the City of Rensselaer) and NEWTON COUNTIES

	Rates	Fringes
PLUMBER.....	\$ 47.52	28.41

 PLUM0597-004 06/01/2018

JASPER (Excluding the city limits of Rensselear), AND NEWTON (Entire County)

	Rates	Fringes
PIPEFITTER.....	\$ 48.50	31.12

ROOF0023-001 06/01/2024		

ELKHART, KOSCIUSKO, LAGRANGE, MARSHALL, PULASKI, and STARKE COUNTIES

	Rates	Fringes
ROOFER		
COMPOSITION.....	\$ 34.55	21.04
SLATE & TILE.....	\$ 36.05	21.04

ROOF0026-001 06/01/2024		

JASPER AND NEWTON COUNTIES

	Rates	Fringes
ROOFER.....	\$ 45.97	26.06

SFIN0669-002 04/01/2024		

	Rates	Fringes
SPRINKLER FITTER.....	\$ 45.40	27.29

SHEE0020-006 07/01/2023		

	Rates	Fringes
SHEET METAL WORKER		
Elkhart, Kosciusko, & Marshall.....	\$ 38.40	28.05
Jasper, Newton, Pulaski, & Starke.....	\$ 47.60	29.31
Lagrange.....	\$ 37.82	26.37

TEAM0135-005 04/01/2024		

JASPER and NEWTON COUNTIES

	Rates	Fringes
Truck drivers:		
GROUP 1.....	\$ 32.10	a
GROUP 2.....	\$ 32.60	a
GROUP 3.....	\$ 32.80	a
GROUP 4.....	\$ 32.95	a
GROUP 5.....	\$ 33.45	a

A: \$36.40 PER DAY & 450.00 PER WEEK.

TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Single Axle Trucks seven (7) cu.yds. or less than ten and one-half (10 1/2) tons, dumpsters, scoop-mobiles five (5) cu.yds. and under or less than seven and one-half (7 1/2) tons, mixer trucks three (3) cu.yds. and under,

air compressors and welding machines, including those pulled by separate units, batch trucks-wet or dry-2 ""34-E"" batches or less, truck driver helpers, warehousemen, mechanic's helpers, greasers and tiremen, all pick- up trucks and other vehicles. Drivers on dumpsters or similar dumpsters, mounted on four (4) wheel truck rated two (2) cu.yds. or less, and small pallet type fork-lift operator and drivers on pallet jacks or similar type equipment.

GROUP 2: Drivers on tandem axle eighteen (18) cu.yds. or twenty-four (24) tons gross, six (6) wheel trucks, Koehring or similar dumpsters, tract rucks, Euclids, hug bottom dumps, tournapulls, tournatrailers, trounarockers, or similar equipment when used for transportation purposes under nine (9) cu.yds. or less than thirteen and one-half (13 1/2) tons, tandems and semi-trailer service trucks, mixer trucks over three (3) cu.yds.,fork lift, four (4) wheel A-frame trucks when used for transportation purposes, four (4) wheel winch trucks, pavement breakers, batch trucks-wet or dry-over 2 up to and including 4 - ""34-E"" batches two (2) men oil distributors, fork-lift under four (4) ton and vacuum trucks.

GROUP 3: Koehring or similar dumpsters, tract trucks, semi-trailer water trucks, Euclids, hug bottom dumps, tournapulls, tournatrailers, tournarockers, tractor-trailers, tandems Q-frame winch trucks, hydrolift trucks or similar equipment when used for transportation purposes, mixer trucks over six and one-half (6 1/2) cu.yds. batch trucks wet or dry over 4 - ""34-E"" batches single axle low boy trailers, and Contractor's mechanics when working on equipment operated by employees within this Bargaining Unit. Six (6) wheel pole trailers and one (1) man oil distributors, fork-lift over four (4) ton and mobile mixers.

GROUP 4: Drivers on heavy equipment over sixteen (16) cu.yds. or twenty-four ton, such as Koehring or similar dumpsters, tract trucks, Euclids, hug bottom dumps, trounapulls, tournarockers or similar equipment when used for transportation purposes, pole trailers over six (6) wheels, water pulls, low-boy trailers, tandem axles, quad axle or more no-weight limitation, diseal and/or heavy equipment mechanics when working on equipment operated by employees with this Bargaining unit.

GROUP 5: Mechanic furnishing his own tools.

TEAM0364-001 06/01/2024

BUILDING

ELKHART, KOSCIUSKO, LAGRANGE & MARSHALL COUNTIES:

	Rates	Fringes
TRUCK DRIVER		
GROUP 1.....	\$ 32.75	a+b
GROUP 2.....	\$ 32.95	a+b
GROUP 3.....	\$ 33.25	a+b
GROUP 4.....	\$ 33.75	a+b

FOOTNOTE:

a. FRINGE BENEFITS: \$422.50 per week

b. HOLIDAYS: New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day and Christmas Day

TRUCK DRIVERS BUILDING CLASSIFICATIONS

- GROUP 1: Pickup Trucks
- GROUP 2: Single Axle Trucks
- GROUP 3: Tandem, Triaxle and Fuel Trucks
- GROUP 4: Semi Trailer Trucks

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

The body of each wage determination lists the classifications and wage rates that have been found to be prevailing for the type(s) of construction and geographic area covered by the wage determination. The classifications are listed in alphabetical order under rate identifiers indicating whether the particular rate is a union rate (current union negotiated rate), a survey rate, a weighted union average rate, a state adopted rate, or a supplemental classification rate.

Union Rate Identifiers

A four-letter identifier beginning with characters other than ""SU"", ""UAVG"", ?SA?, or ?SC? denotes that a union rate was

prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2024. PLUM is an identifier of the union whose collectively bargained rate prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2024 in the example, is the effective date of the most current negotiated rate.

Union prevailing wage rates are updated to reflect all changes over time that are reported to WHD in the rates in the collective bargaining agreement (CBA) governing the classification.

Union Average Rate Identifiers

The UAVG identifier indicates that no single rate prevailed for those classifications, but that 100% of the data reported for the classifications reflected union rates. EXAMPLE: UAVG-OH-0010 01/01/2024. UAVG indicates that the rate is a weighted union average rate. OH indicates the State of Ohio. The next number, 0010 in the example, is an internal number used in producing the wage determination. The date, 01/01/2024 in the example, indicates the date the wage determination was updated to reflect the most current union average rate.

A UAVG rate will be updated once a year, usually in January, to reflect a weighted average of the current rates in the collective bargaining agreements on which the rate is based.

Survey Rate Identifiers

The ""SU"" identifier indicates that either a single non-union rate prevailed (as defined in 29 CFR 1.2) for this classification in the survey or that the rate was derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As a weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SUFL2022-007 6/27/2024. SU indicates the rate is a single non-union prevailing rate or a weighted average of survey data for that classification. FL indicates the State of Florida. 2022 is the year of the survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 6/27/2024 in the example, indicates the survey completion date for the classifications and rates under that identifier.

?SU? wage rates typically remain in effect until a new survey is conducted. However, the Wage and Hour Division (WHD) has the discretion to update such rates under 29 CFR 1.6(c)(1).

State Adopted Rate Identifiers

The ""SA"" identifier indicates that the classifications and prevailing wage rates set by a state (or local) government were adopted under 29 C.F.R 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications

and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 01/03/2024 in the example, reflects the date on which the classifications and rates under the ?SA? identifier took effect under state law in the state from which the rates were adopted.

WAGE DETERMINATION APPEALS PROCESS

1) Has there been an initial decision in the matter? This can be:

- a) a survey underlying a wage determination
- b) an existing published wage determination
- c) an initial WHD letter setting forth a position on a wage determination matter
- d) an initial conformance (additional classification and rate) determination

On survey related matters, initial contact, including requests for summaries of surveys, should be directed to the WHD Branch of Wage Surveys. Requests can be submitted via email to davisbaconinfo@dol.gov or by mail to:

Branch of Wage Surveys
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

Regarding any other wage determination matter such as conformance decisions, requests for initial decisions should be directed to the WHD Branch of Construction Wage Determinations. Requests can be submitted via email to BCWD-Office@dol.gov or by mail to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2) If an initial decision has been issued, then any interested party (those affected by the action) that disagrees with the decision can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Requests for review and reconsideration can be submitted via email to dba.reconsideration@dol.gov or by mail to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3) If the decision of the Administrator is not favorable, an

interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210.

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END OF GENERAL DECISION"

EXECUTIVE ORDER 11246
"NOTICE AND EQUAL EMPLOYMENT OPPORTUNITY CLAUSE"

The Executive Order 11246 Notice calls to the attention of the offeror or bidder the affirmative action requirements of the Contract Specifications and sets forth the goals and timetables for minority and female participation in the Contractor's work force in each trade on all construction work in the designated geographical area (or "reporting county").

The Contract Specifications provide (in paragraph 14): The Contractor shall designate a responsible official to monitor all employment related activity to ensure that equal employment be required and to keep certain records.

The notices and Contract Specifications which all recipients of Federal funding must include in their solicitations for offers and bids on all contracts or subcontracts are attached.

GENERAL CONTRACTOR'S REQUIREMENTS
FOR MINORITY PARTICIPATION

NOTICE OF REQUIREMENTS FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY
(EXECUTIVE ORDER 11246)

1. The Offeror's or Bidders' attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Construction Contract Specifications" set forth herein.
2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate work force in each trade on all construction work in the covered area, have been set by the Public Housing Authority as follows:

<u>Timetables</u>	<u>Goals for Minority participation for each trade (percent)</u>
Life of Contract	20%

The Contractor's compliance with the Executive Order and the regulations in 41 CFR Part 604 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3 (a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from meeting the Contractor's goals shall be a violation of the contract, the Executive Order, and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

STANDARD FEDERAL EQUAL OPPORTUNITY CONSTRUCTION
CONTRACT SPECIFICATIONS
(EXECUTIVE ORDER 11246)

1. As used in these specifications:
 - a. "Covered area" means the geographical area described in the solicitation from which this contract results.
 - b. "Director" means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority.
 - c. "Employer Identification Number" means the Federal Social Security Number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.
 - d. "Minority" includes:
 - (i) Black (all persons having origins in any of the Black African racial groups not of Hispanic Origin);
 - (ii) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish Culture or origin, regardless of race);
 - (iii) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, southeast Asia, the Indian Subcontinent of the Pacific Islands); and
 - (iv) American Indian or Alaskan Native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).
2. Whenever the Contractor, or any Subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract the provision of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.
3. If the Contractor is participating (pursuant of 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or Subcontractor participating in any approved Plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractors or subcontractors toward a goal in an approved Plan does not excuse any covered Contractor's or Subcontractor's failure to take good faith effort to achieve the Plan goals and timetables.
4. The Contractor shall implement the specific affirmative action standards provided in paragraphs "a" through "p" of these specifications. The goals set forth in the solicitation from which this contract resulted in expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. The Contractor is expected to make substantially uniform progress toward its goals in each craft during the period specified.

STANDARD FEDERAL EQUAL OPPORTUNITY CONSTRUCTION
CONTRACT SPECIFICATIONS
(EXECUTIVE ORDER 11246) (continued)

5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.
6. In order for the nonworking training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.
7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:
 - a. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foreman, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment with specific attention to minority or female individuals working at such sites or in such facilities.
 - b. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available and maintain a record of the organizations responses.
 - c. Maintain a current file on the names, addresses and telephone number of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason thereof, along with whatever additional actions the Contractor may have taken.
 - d. Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor minority persons or women sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
 - e. Develop on-the-job training opportunities and/or participation in training programs for the area which expressly include minorities and women including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Dept. of Labor. The Contractor shall provide notice of these programs to the sources compiled under 7b above.
 - f. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.

STANDARD FEDERAL EQUAL OPPORTUNITY CONSTRUCTION
CONTRACT SPECIFICATIONS
(EXECUTIVE ORDER 11246) (continued)

- g. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with on site supervisory personnel such as Superintendents, General Foreman, etc. prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meeting persons attending, subject matter discussed, and disposition of the subject matter.
- h. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female new media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.
- i. Direct its recruitment efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs.

Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.

- j. Encourage present minority and female employees to recruit other minority persons and women, and where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's workforce.
 - k. Validate all test and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.
 - l. Conduct at least annually an inventory and evaluation of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for thorough appropriate training, etc., such opportunities.
 - m. Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.
 - n. Ensure that all facilities and company activities are nonsegregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
 - o. Document and maintain record of all solicitations of offers for subcontractors from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.
 - p. Conduct a review, at least annually, of all supervisor's adherence to and performance under the Contractor's EEO policies and affirmative action obligations.
8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (7a thru p.). The efforts of contractor associations, joint contractor-union, contractor-community, or other similar group of which the contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under 7a thru p of these specifications provided that the contractor actively participates in the group, makes every effort to assure that the group has a positive

STANDARD FEDERAL EQUAL OPPORTUNITY CONSTRUCTION
CONTRACT SPECIFICATIONS
(EXECUTIVE ORDER 11246) (continued)

impact on the employment of minorities and women in the industry, ensure to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.

9. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if a specific minority group of women is under utilized).
10. The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, or national origin.
11. The Contractor shall not enter into any Subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.
12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal contract Compliance Programs. Any contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.
13. The Contractor, in fulfilling its obligations under these specifications shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.
14. The Contractor shall designate a responsible official to monitor all employment related activities to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government and to keep records. Records shall include for each employee the name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g. mechanic, apprentices, trainee, helper or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.
15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g. those under the Public Work Employment Act of 1977 and the Community Development Block Grant Program).

SUBPART B - CONTRACTOR'S AGREEMENT

During the performance of this Contract, the Contractor agrees as follows:"

- (1) The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex or national origin. Such action will include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates or pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause.
- (2) The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex or national origin.
- (3) The Contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract of understanding, a notice, to be provided by the agency contracting officer, advising the labor union or workers' representative of the Contractor's commitments under Section 202 of Executive Order No. 11246 of September 24, 1965, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- (4) The Contractor will comply with all provisions of Executive Order No. 11246 of September 24, 1965, and of the rules and regulations, and relevant orders of the Secretary of Labor.
- (5) The Contractor will furnish all information and reports required by Executive Order No. 11246 of September 24, 1965, and by the rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the contracting agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- (6) In the event of the Contractor's noncompliance with the nondiscrimination clause of this contract or with any of such rules, regulations, or orders, in this contract may be cancelled, terminated or suspended in whole or in part and the Contractor may be declared ineligible for further Government contracts in accordance with procedures authorized in Executive Order No. 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked* as provided in Executive Order No. 11246 of September 24, 1965, or by rule, regulations, or order of the Secretary of Labor, or as otherwise provided by law.
- (7) The Contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) thru (7) in every subcontract or purchase order unless exempted by rules, regulations, or others of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The Contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions including sanctions for noncompliance: Provided, however, that in the event a Contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result direction by the administering agency, the Contractor may request the United States of enter into such litigation to protect the interests of the United States.

The applicant further agrees that it will be bound by the above equal opportunity clause with respect to its own employment practices when it participates in federally assisted construction work: Provided, that if the applicant so participating is a State of local government, the above equal opportunity clause is not applicable to any agency, instrumentality or subdivision of such government which does not participate in work on or under the contract.

SUBPART B - CONTRACTOR'S AGREEMENT (continued)

The applicant agrees that it will assist and cooperate actively with the administering agency and the Secretary of Labor in obtaining the compliance of contractors and subcontractors with the equal opportunity clause and the rules, regulations, and relevant orders of the Secretary of Labor, that it will furnish and administering agency and the Secretary of Labor such information as they may require for the supervision of such compliance, and that it will otherwise assist the administering agency in the discharge of the agency's primary responsibility for securing compliance.

The applicant further agrees that it will refrain from entering into any contract or contract modification subject to Executive Order 11246 of September 24, 1965, with a contractor debarred from, or who has not demonstrated eligibility for, Government contracts and federally assisted construction contracts pursuant to the Executive Order and will carry out such sanctions and penalties for violation of the equal opportunity clause as may be imposed upon contractors and subcontractors by the administering agency or the Secretary of Labor pursuant to Part II, Subpart D of the Executive Order. In addition, the applicant agrees that if it fails or refuses to comply with these undertakings, the administering agency may take any or all of the following actions: Conceal, terminate, or suspend in whole or in part this grant (contract, loan, insurance, guarantee); refrain from extending any further assistance to the applicant under the program with respect to which the failure or refund occurred until satisfactory assurance of future compliance has been received from such applicant; and refer to case to the Department of Justice for appropriate legal proceedings.

* Corrected to read "invoked". In the original text the word "involved" was printed in error.

SECTION 3 CLAUSE

All Section 3 covered contents shall include the following clause (referred to as the Section 3 Clause):

- A. The work to be performed under this contract is subject to the requirements of Section 3 of the Housing and Urban Development Act of 1968, as amended, 12 U.S.C. 1701u (Section 3). The purpose of Section 3 is to ensure that employment and other economic opportunities generated by HUD assistance or HUD-assisted projects covered by Section 3, shall, to the greatest extent feasible, be directed to low-and very low-income persons, particularly persons who are recipients of HUD assistance for housing.
- B. The parties to this contract agree to comply with HUD's regulations in 24 CFR part 135, which implements Section 3. As evidenced by their execution of this contract, the parties to this contract certify that they are under no contractual or other impediment that would prevent them from complying with the part 135 regulations.
- C. The Contractor agrees to send to each labor organization or representative of workers with which the Contractor has a collective bargaining agreement or other understanding, if any, a notice advising the labor organization or workers' representative of the Contractor's commitments under this Section 3 clause, and will post copies of the notice in conspicuous places at the work site where both employees and applicants for training and employment positions can see the notice. The notice shall describe the Section 3 preference, shall set forth minimum number and job titles subject to hire, availability of apprenticeship and training positions, the qualifications for each; and the name and location of the persons(s) taking applications for each of the positions; and the anticipated date the work shall begin.
- D. The Contractor agrees to include this Section 3 clause in every subcontract subject to compliance with regulations in 24 CFR part 135, and agrees to take appropriate action, as provided in an applicable provision of the subcontract or in this Section 3 clause, upon a finding that the subcontractor is in violation of the regulations in 24 CFR part 135. The Contractor will not subcontract with any subcontractor where the Contractor has notice or knowledge that the subcontractor has been found in violation of the regulations in 24 CFR part 135.
- E. The Contractor will certify that any vacant employment positions, including training positions, that are filled (1) after the Contractor is selected but before the contract is executed, and (2) with persons other than those to whom the regulations of 24 CFR part 135 require employment opportunities to be directed, were not filled to circumvent the Contractor's obligations under 24 CFR part 135.
- F. Noncompliance with HUD's regulations in 24 CFR part 135 may result in sanctions, termination of this contract for default, and debarment or suspension from future HUD assisted contracts.
- G. With respect to work performed in connection with Section 3 covered Indian housing assistance, Section 7(b) of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 450e) also applies to the work to be performed under this Contract. Section 7(b) requires that to the greatest extent feasible (i) preference and opportunities for training and employment shall be given to Indians, and (ii) preference in the award of contracts and subcontracts shall be given to Indian organization and Indian-owned Economic Enterprises. Parties to this contract that are subject to the provisions of Section 3 and Section 7(b) agree to comply with Section 3 to the maximum extent feasible, but not in derogation of compliance with Section 7(b).
- H. Pursuant to 24 CFR 905.70(b), compliance with Section 3 requirements shall be to the maximum extent consistent with, but not in derogation of compliance with Section 7(b) of the Indian Self-Determination and Education Assistance, 25 U.S.C. Section 450e(b) when this law is applicable.

SPECIAL NOTICE TO CONTRACTORS
REGARDING SECTION 3

Section 3 requires that, to the greatest extent feasible, opportunities for job training and employment be given to lower income residents of the Section 3 area and contracts for work in connection with the Section 3 covered project be awarded to business concerns which are located in or owned in substantial part by persons residing in the Section 3 area.

Section 3 requires that a recipient/contractor take affirmative steps to give preference to qualified Section 3 area residents and business concerns in providing training, employment and contracting in connection with Section 3 covered projects.

If, in bidding this project, you anticipate using local subcontractors, the Elkhart Housing Authority will provide you with names of Section 3 business concerns.

In the event additional employees will be added to your work force, in addition to those employees outlined in Specification Section 01 10 00 SUMMARY OF WORK, please target recruitment by:

1. Notifying the Elkhart Housing Authority of job openings
2. Advertising in local media
3. Contacting local job training and placement centers
4. Notify community organizations serving Section 3 residents
5. Developing on-the-job training opportunities

Once you have taken these steps, please provide documentation of your actions to the Elkhart Housing Authority for our project records.

**SECTION 00 40 00
BID FORMS**

THIS SECTION CONTAINS BLANK FORMS, SAMPLE FORMS AND STATEMENTS FOR COMPLIANCE - ALL REQUIRED SUBMITTALS FOR THIS PROJECT. REFER TO SECTION 00 20 00 INSTRUCTIONS TO BIDDERS FOR DOCUMENTS TO BE SUBMITTED AT TIME OF BID SUBMITTAL.

END OF SECTION

Official Company Name and Address:

Bidder's Company Name: _____

Bidder's Address: _____

Bidder's Cell Phone No: _____

Bidder's Office Phone No: _____

Signature: _____

Printed Name: _____

Title: _____

Date: _____



CONTRACTOR'S BID FOR PUBLIC WORK - FORM 96

State Form 52414 (R2 / 2-13) / Form 96 (Revised 2013)

Prescribed by State Board of Accounts

PART I

(To be completed for all bids. Please type or print)

Date (month, day, year): _____

1. Governmental Unit (Owner): _____

2. County : _____

3. Bidder (Firm): _____

Address: _____

City/State/ZIPcode: _____

4. Telephone Number: _____

5. Agent of Bidder (if applicable): _____

Pursuant to notices given, the undersigned offers to furnish labor and/or material necessary to complete the public works project of _____

(Governmental Unit) in accordance with plans and specifications prepared by _____

_____ and dated _____ for the sum of
_____ \$ _____

The undersigned further agrees to furnish a bond or certified check with this bid for an amount specified in the notice of the letting. If alternative bids apply, the undersigned submits a proposal for each in accordance with the notice. Any addendums attached will be specifically referenced at the applicable page.

If additional units of material included in the contract are needed, the cost of units must be the same as that shown in the original contract if accepted by the governmental unit. If the bid is to be awarded on a unit basis, the itemization of the units shall be shown on a separate attachment.

The contractor and his subcontractors, if any, shall not discriminate against or intimidate any employee, or applicant for employment, to be employed in the performance of this contract, with respect to any matter directly or indirectly related to employment because of race, religion, color, sex, national origin or ancestry. Breach of this covenant may be regarded as a material breach of the contract.

CERTIFICATION OF USE OF UNITED STATES STEEL PRODUCTS (If applicable)

I, the undersigned bidder or agent as a contractor on a public works project, understand my statutory obligation to use steel products made in the United States (I.C. 5-16-8-2). I hereby certify that I and all subcontractors employed by me for this project will use U.S. steel products on this project if awarded. I understand that violations hereunder may result in forfeiture of contractual payments.

ACCEPTANCE

The above bid is accepted this _____ day of _____, _____, subject to the following conditions: _____

Contracting Authority Members:

PART II

(For projects of \$150,000 or more – IC 36-1-12-4)

Governmental Unit: _____

Bidder (Firm) _____

Date (month, day, year): _____

These statements to be submitted under oath by each bidder with and as a part of his bid. Attach additional pages for each section as needed.

SECTION I EXPERIENCE QUESTIONNAIRE

1. What public works projects has your organization completed for the period of one (1) year prior to the date of the current bid?

Contract Amount	Class of Work	Completion Date	Name and Address of Owner

2. What public works projects are now in process of construction by your organization?

3. Have you ever failed to complete any work awarded to you? _____ If so, where and why?

4. List references from private firms for which you have performed work.

Contract Amount	Class of Work	Expected Completion Date	Name and Address of Owner
-----------------	---------------	--------------------------	---------------------------

SECTION II PLAN AND EQUIPMENT QUESTIONNAIRE

1. Explain your plan or layout for performing proposed work. *(Examples could include a narrative of when you could begin work, complete the project, number of workers, etc. and any other information which you believe would enable the governmental unit to consider your bid.)*

2. Please list the names and addresses of all subcontractors *(i.e. persons or firms outside your own firm who have performed part of the work)* that you have used on public works projects during the past five (5) years along with a brief description of the work done by each subcontractor.

3. If you intend to sublet any portion of the work, state the name and address of each subcontractor, equipment to be used by the subcontractor, and whether you will require a bond. However, if you are unable to currently provide a listing, please understand a listing must be provided prior to contract approval. Until the completion of the proposed project, you are under a continuing obligation to immediately notify the governmental unit in the event that you subsequently determine that you will use a subcontractor on the proposed project.

4. What equipment do you have available to use for the proposed project? Any equipment to be used by subcontractors may also be required to be listed by the governmental unit.

5. Have you entered into contracts or received offers for all materials which substantiate the prices used in preparing your proposal? If not, please explain the rationale used which would corroborate the prices listed.

SECTION III CONTRACTOR'S FINANCIAL STATEMENT

Attachment of bidder's financial statement is mandatory. Any bid submitted without said financial statement as required by statute shall thereby be rendered invalid. The financial statement provided hereunder to the governing body awarding the contract must be specific enough in detail so that said governing body can make a proper determination of the bidder's capability for completing the project if awarded.

SECTION IV CONTRACTOR'S NON – COLLUSION AFFIDAVIT

The undersigned bidder or agent, being duly sworn on oath, says that he has not, nor has any other member, representative, or agent of the firm, company, corporation or partnership represented by him, entered into any combination, collusion or agreement with any person relative to the price to be bid by anyone at such letting nor to prevent any person from bidding nor to include anyone to refrain from bidding, and that this bid is made without reference to any other bid and without any agreement, understanding or combination with any other person in reference to such bidding.

He further says that no person or persons, firms, or corporation has, have or will receive directly or indirectly, any rebate, fee, gift, commission or thing of value on account of such sale.

SECTION V OATH AND AFFIRMATION

I HEREBY AFFIRM UNDER THE PENALTIES FOR PERJURY THAT THE FACTS AND INFORMATION CONTAINED IN THE FOREGOING BID FOR PUBLIC WORKS ARE TRUE AND CORRECT.

Dated at _____ this _____ day of _____, _____

(Name of Organization)

By _____

(Title of Person Signing)

ACKNOWLEDGEMENT

STATE OF _____)
) ss
COUNTY OF _____)

Before me, a Notary Public, personally appeared the above-named _____ and swore that the statements contained in the foregoing document are true and correct.

Subscribed and sworn to before me this _____ day of _____, _____.

Notary Public

My Commission Expires: _____

County of Residence: _____

BID OF

(Contractor)

(Address)

FOR

PUBLIC WORKS PROJECTS

OF

Filed _____

Action taken _____

EQUAL EMPLOYMENT OPPORTUNITY/AFFIRMATIVE ACTION PLAN
STATEMENT OF POLICY

It is the policy of this company, _____, to provide equal employment opportunity without regard to race, religion, color, national origin, handicap, age, or sex, through a program of positive action affecting all employees. In this program, our company carries out the requirements of Federal Executive Orders 11246 and 11375, Civil Rights Act of 1964, Equal Employment Act of 1972 and all other applicable laws and indicates its active support of the principle of equal opportunity in employment.

At present, _____% of our workforce are minorities and _____% of our workforce are females and we will attempt to utilize minorities and females through a positive, continuing program in all jobs for which we contract in the future.

Our company will utilize referrals from the Owner for use of lower income/poverty residents regarding any future job vacancies.

It is also our intent to make efforts to purchase supplies or equipment from small business concerns located in or owned in substantial part by the persons residing in the project area.

_____ is the official who will be responsible for implementing the above policy statement. _____ will be designated as the Equal Opportunity Officer in our company responsible for submission of all required equal employment opportunity documents. In addition, _____ is hereby authorized to sign the payrolls as well as our company's officers. (Note: If only officers will be authorized to sign payrolls, please fill in "no one" in the space.)

Federal I.D. Number

(Name of Organization)

(Title of Person Signing)

(Signature)

(Printed Name of Person Signing)

Dated this _____ day of _____, 20____

CERTIFICATE AS TO CORPORATE PRINCIPAL
(When Principal is a Corporation)

I, _____, certify that I am the _____
of the corporation named as Principal in the Bond included within; that _____, who
signed said Bond on behalf of the Principal, was then _____ of said corporation; that I know
his/her signature, and his/her signature thereto is genuine; and that said Bond was duly signed, sealed and attested
to for and on behalf of said corporation by authority of its governing body.

_____ (SEAL)

MBE/WBE CLAUSE CERTIFICATION

To be eligible for award of contract for above project(s), the bidders must execute and submit as a part of his/her bid, the following MBE/WBE Clause Certification which will be deemed a part of the resulting contract.

Warning: This certification is vital, and if not submitted, the Contractor's bid will be considered to be non-responsive. Similarly, if a false certification is submitted, the Contractor's bid will be considered to be non-responsive.

The Contractor agrees to use his good faith efforts as defined in the Owner's MBE/WBE plan, to utilize MBE/WBE firms in the award of his/her subcontracts and owner/operator work to the fullest extent with the suggested goals for this project. Under this MBE/WBE Clause Certification, the bidder agrees to maintain records to document contracts and specific efforts made to seek out and identify potential MBE/WBE contractors. The bidder agrees to make good faith effort to replace a MBE/WBE subcontractor, who is unable to perform successfully, with another MBE/WBE.

DEFINITIONS

For the purposes of this certification, the following terms are defined:

1. Minority: A person who is a citizen or lawful permanent resident of the United States and who is:
 - a. Black (a person having origins in any of the black racial groups of Africa).
 - b. Hispanic (a person of Spanish or Portuguese culture with origins in Mexico, South or Central America or the Caribbean Islands, regardless of race).
 - c. Asian American (a person having origins in any of the original peoples of the Far East, Southeast Asia, the India Subcontinent or the Pacific Islands).
 - d. American Indian and Alaskan Native (a person having origin in any of original peoples of North American).
 - e. Members of other groups or other individuals found to be socially disadvantaged by the Small Business Administration under Section 8(a) of Small Business Act as amended (15 U.S.C. 637(a)).

2. MBE/WBE: A business concern which is owned and controlled by one (1) more minority or woman owned enterprise.
 - a. Which is at least 51 per centum owned by one or more minorities or in the case of publicly owned business, at least 50 per centum of the stock of which is owned by one or more minorities and
 - b. Whose management and daily business operations are controlled by one or more such individuals.
 - c. In the case of a joint venture between a minority-controlled enterprise meeting the requirements (1) above and a non-minority controlled enterprise, the joint venture shall be found to be a minority contractor if the enterprise meeting the requirements of (1) above shall have more than one-half control over management of the project bid upon and shall have the right to receive more than one-half of the profit deriving from the project.

The Owner's suggested contract goal for MBE/WBE utilization on this contract is 10%.

These goals are established in accordance with Executive Orders 11246, 11625 (26 FR 1976), and 12432 so that "not less than Ten percent of the funds authorized to be appropriated under the Executive Order shall be expended with small business concerns owned and controlled by socially and economically disadvantaged individuals".

On all contracts, the bidder agrees to take affirmative actions to seek out and utilize MBE/WBE firms.

MBE/WBE CLAUSE CERTIFICATION (continued)

On contracts with suggested goals, the bidder must complete the "Schedule of Intended Participation by Minority/Woman Business Enterprise". If the MBE/WBE participation submitted on the form does not meet the contract goals, the bidder must complete the "Certification of Good Faith Efforts" form. Refer to attached forms (0030-10).

Name of Firm or Individual (Type or Print)

Corporate Seal

Business Address

Authorized Agent (Signature in Ink)

Title

Date at _____, _____ this _____ day of _____, 20____.
(city) (state)

MBE/WBE CLAUSE CERTIFICATION (continued)

SCHEDULE OF INTENDED PARTICIPATION BY
MINORITY/WOMAN BUSINESS ENTERPRISES

NAME AND ADDRESS OF MINORITY FIRMS AND FEDERAL ID NO.	TYPE OF WORK	Total Price	
		DOLLARS	CENTS
Total Amount to be Paid to MBE/WBE Firms			

Percent of total bid price including alternates which is to be paid to MBE/WBE firms for work performed, materials and/or supplies furnished under this contract: _____%

MBE/WBE CLAUSE CERTIFICATION (continued)

CERTIFICATE OF GOOD FAITH EFFORTS

Bidder has used his/her good faith efforts to use MBE/WBE firms as evidenced by the following actions taken. Check those which have been done:

- Bidder has attended pre-bid meetings that were scheduled by Owner to inform MBE/WBE firms of contracting and subcontracting opportunities.
- Bidder has advertised in general circulation, trade association or minority-focus media concerning subcontracting opportunities.
- Bidder has provided written notice to specific MBE/WBE firms that their interest in the contract was being solicited in sufficient time to allow MBE/WBE's to participate.
- Bidder has contacted MBE/WBE firms who expressed interest to determine with certainty whether they were in fact interested.
- Bidder has selected specific portions of the work to be performed for solicitation of MBE/WBE participation.
- Bidder has provided interested MBE/WBE firms with information about the plans, specifications and requirements of the project.
- Bidder has negotiated in good faith with interested MBE/WBE firms for specific portions of the work to be performed on this project.
- Bidder has made efforts to assist interested MBE/WBE firms in obtaining bonding, lines of credit or insurance required in order to perform work on this project.
- Bidder has used the services of minority community organizations, minority contractor groups or governmental minority business assistance offices.

Please describe any additional or other efforts bidder has taken which were used to obtain MBE/WBE participation in this contract.

The Representations, Certifications, and Other Statements of Bidders, HUD-5369-A (11/92), are hereby made a part of the Contract Documents, except as they may be modified by Section 00 80 00 SUPPLEMENTARY GENERAL CONDITIONS and the specific provisions of these documents.

Refer to insert:

HUD-5369-A (11/92) pages 1-3

**U.S. Department of Housing
and Urban Development**
Office of Public and Indian Housing

**Representations, Certifications,
and Other Statements of Bidders**
Public and Indian Housing Programs

Representations, Certifications, and Other Statements of Bidders

Public and Indian Housing Programs

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1. Certificate of Independent Price Determination

(a) The bidder certifies that--

(1) The prices in this bid have been arrived at independently, without, for the purpose of restricting competition, any consultation, communication, or agreement with any other bidder or competitor relating to (i) those prices, (ii) the intention to submit a bid, or (iii) the methods or factors used to calculate the prices offered;

(2) The prices in this bid have not been and will not be knowingly disclosed by the bidder, directly or indirectly, to any other bidder or competitor before bid opening (in the case of a sealed bid solicitation) or contract award (in the case of a competitive proposal solicitation) unless otherwise required by law; and

(3) No attempt has been made or will be made by the bidder to induce any other concern to submit or not to submit a bid for the purpose of restricting competition.

(b) Each signature on the bid is considered to be a certification by the signatory that the signatory--

(1) Is the person in the bidder's organization responsible for determining the prices being offered in this bid or proposal, and that the signatory has not participated and will not participate in any action contrary to subparagraphs (a)(1) through (a)(3) above; or

(2) (i) Has been authorized, in writing, to act as agent for the following principals in certifying that those principals have not participated, and will not participate in any action contrary to subparagraphs (a)(1) through (a)(3) above.

_____ [insert full name of person(s) in the bidder's organization responsible for determining the prices offered in this bid or proposal, and the title of his or her position in the bidder's organization];

(ii) As an authorized agent, does certify that the principals named in subdivision (b)(2)(i) above have not participated, and will not participate, in any action contrary to subparagraphs (a)(1) through (a)(3) above; and

(iii) As an agent, has not personally participated, and will not participate in any action contrary to subparagraphs (a)(1) through (a)(3) above.

(c) If the bidder deletes or modifies subparagraph (a)2 above, the bidder must furnish with its bid a signed statement setting forth in detail the circumstances of the disclosure.

[] [Contracting Officer check if following paragraph is applicable]

(d) Non-collusive affidavit. (applicable to contracts for construction and equipment exceeding \$50,000)

(1) Each bidder shall execute, in the form provided by the PHA/IHA, an affidavit to the effect that he/she has not colluded with any other person, firm or corporation in regard to any bid submitted in response to this solicitation. If the successful bidder did not submit the affidavit with his/her bid, he/she must submit it within three (3) working days of bid opening. Failure to submit the affidavit by that date may render the bid nonresponsive. No contract award will be made without a properly executed affidavit.

(2) A fully executed "Non-collusive Affidavit" [] is, [] is not included with the bid.

2. Contingent Fee Representation and Agreement

(a) Definitions. As used in this provision:

"Bona fide employee" means a person, employed by a bidder and subject to the bidder's supervision and control as to time, place, and manner of performance, who neither exerts, nor proposes to exert improper influence to solicit or obtain contracts nor holds out as being able to obtain any contract(s) through improper influence.

"Improper influence" means any influence that induces or tends to induce a PHA/IHA employee or officer to give consideration or to act regarding a PHA/IHA contract on any basis other than the merits of the matter.

(b) The bidder represents and certifies as part of its bid that, except for full-time bona fide employees working solely for the bidder, the bidder:

(1) [] has, [] has not employed or retained any person or company to solicit or obtain this contract; and

(2) [] has, [] has not paid or agreed to pay to any person or company employed or retained to solicit or obtain this contract any commission, percentage, brokerage, or other fee contingent upon or resulting from the award of this contract.

(c) If the answer to either (a)(1) or (a)(2) above is affirmative, the bidder shall make an immediate and full written disclosure to the PHA/IHA Contracting Officer.

(d) Any misrepresentation by the bidder shall give the PHA/IHA the right to (1) terminate the contract; (2) at its discretion, deduct from contract payments the amount of any commission, percentage, brokerage, or other contingent fee; or (3) take other remedy pursuant to the contract.

3. Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions (applicable to contracts exceeding \$100,000)

(a) The definitions and prohibitions contained in Section 1352 of title 31, United States Code, are hereby incorporated by reference in paragraph (b) of this certification.

(b) The bidder, by signing its bid, hereby certifies to the best of his or her knowledge and belief as of December 23, 1989 that:

(1) No Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress on his or her behalf in connection with the awarding of a contract resulting from this solicitation;

(2) If any funds other than Federal appropriated funds (including profit or fee received under a covered Federal transaction) have been paid, or will be paid, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress on his or her behalf in connection with this solicitation, the bidder shall complete and submit, with its bid, OMB standard form LLL, "Disclosure of Lobbying Activities;" and

(3) He or she will include the language of this certification in all subcontracts at any tier and require that all recipients of subcontract awards in excess of \$100,000 shall certify and disclose accordingly.

(c) Submission of this certification and disclosure is a prerequisite for making or entering into this contract imposed by section 1352, title 31, United States Code. Any person who makes an expenditure prohibited under this provision or who fails to file or amend the disclosure form to be filed or amended by this provision, shall be subject to a civil penalty of not less than \$10,000, and not more than \$100,000, for each such failure.

(d) Indian tribes (except those chartered by States) and Indian organizations as defined in section 4 of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 450B) are exempt from the requirements of this provision.

4. Organizational Conflicts of Interest Certification

The bidder certifies that to the best of its knowledge and belief and except as otherwise disclosed, he or she does not have any organizational conflict of interest which is defined as a situation in which the nature of work to be performed under this proposed contract and the bidder's organizational, financial, contractual, or other interests may, without some restriction on future activities:

- (a) Result in an unfair competitive advantage to the bidder; or,
- (b) Impair the bidder's objectivity in performing the contract work.

[] In the absence of any actual or apparent conflict, I hereby certify that to the best of my knowledge and belief, no actual or apparent conflict of interest exists with regard to my possible performance of this procurement.

5. Bidder's Certification of Eligibility

(a) By the submission of this bid, the bidder certifies that to the best of its knowledge and belief, neither it, nor any person or firm which has an interest in the bidder's firm, nor any of the bidder's subcontractors, is ineligible to:

(1) Be awarded contracts by any agency of the United States Government, HUD, or the State in which this contract is to be performed; or,

(2) Participate in HUD programs pursuant to 24 CFR Part 24.

(b) The certification in paragraph (a) above is a material representation of fact upon which reliance was placed when making award. If it is later determined that the bidder knowingly rendered an erroneous certification, the contract may be terminated for default, and the bidder may be debarred or suspended from participation in HUD programs and other Federal contract programs.

6. Minimum Bid Acceptance Period

(a) "Acceptance period," as used in this provision, means the number of calendar days available to the PHA/IHA for awarding a contract from the date specified in this solicitation for receipt of bids.

(b) This provision supersedes any language pertaining to the acceptance period that may appear elsewhere in this solicitation.

(c) The PHA/IHA requires a minimum acceptance period of [Contracting Officer insert time period] calendar days.

(d) In the space provided immediately below, bidders may specify a longer acceptance period than the PHA's/IHA's minimum requirement. The bidder allows the following acceptance period: calendar days.

(e) A bid allowing less than the PHA's/IHA's minimum acceptance period will be rejected.

(f) The bidder agrees to execute all that it has undertaken to do, in compliance with its bid, if that bid is accepted in writing within (1) the acceptance period stated in paragraph (c) above or (2) any longer acceptance period stated in paragraph (d) above.

7. Small, Minority, Women-Owned Business Concern Representation

The bidder represents and certifies as part of its bid/ offer that it --

(a) [] is, [] is not a small business concern. "Small business concern," as used in this provision, means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding, and qualified as a small business under the criteria and size standards in 13 CFR 121.

(b) [] is, [] is not a women-owned business enterprise. "Women-owned business enterprise," as used in this provision, means a business that is at least 51 percent owned by a woman or women who are U.S. citizens and who also control and operate the business.

(c) [] is, [] is not a minority business enterprise. "Minority business enterprise," as used in this provision, means a business which is at least 51 percent owned or controlled by one or more minority group members or, in the case of a publicly owned business, at least 51 percent of its voting stock is owned by one or more minority group members, and whose management and daily operations are controlled by one or more such individuals. For the purpose of this definition, minority group members are:

(Check the block applicable to you)

- | | |
|------------------------|------------------------------|
| [] Black Americans | [] Asian Pacific Americans |
| [] Hispanic Americans | [] Asian Indian Americans |
| [] Native Americans | [] Hasidic Jewish Americans |

8. Indian-Owned Economic Enterprise and Indian Organization Representation (applicable only if this solicitation is for a contract to be performed on a project for an Indian Housing Authority)

The bidder represents and certifies that it:

(a) [] is, [] is not an Indian-owned economic enterprise. "Economic enterprise," as used in this provision, means any commercial, industrial, or business activity established or organized for the purpose of profit, which is at least 51 percent Indian owned. "Indian," as used in this provision, means any person who is a member of any tribe, band, group, pueblo, or community which is recognized by the Federal Government as eligible for services from the Bureau of Indian Affairs and any "Native" as defined in the Alaska Native Claims Settlement Act.

(b) [] is, [] is not an Indian organization. "Indian organization," as used in this provision, means the governing body of any Indian tribe or entity established or recognized by such governing body. Indian "tribe" means any Indian tribe, band, group, pueblo, or

community including Native villages and Native groups (including corporations organized by Kenai, Juneau, Sitka, and Kodiak) as defined in the Alaska Native Claims Settlement Act, which is recognized by the Federal Government as eligible for services from the Bureau of Indian Affairs.

9. Certification of Eligibility Under the Davis-Bacon Act (applicable to construction contracts exceeding \$2,000)

(a) By the submission of this bid, the bidder certifies that neither it nor any person or firm who has an interest in the bidder's firm is a person or firm ineligible to be awarded contracts by the United States Government by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(b) No part of the contract resulting from this solicitation shall be subcontracted to any person or firm ineligible to be awarded contracts by the United States Government by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(c) The penalty for making false statements is prescribed in the U. S. Criminal Code, 18 U.S.C. 1001.

10. Certification of Nonsegregated Facilities (applicable to contracts exceeding \$10,000)

(a) The bidder's attention is called to the clause entitled **Equal Employment Opportunity** of the General Conditions of the Contract for Construction.

(b) "Segregated facilities," as used in this provision, means any waiting rooms, work areas, rest rooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees, that are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, or national origin because of habit, local custom, or otherwise.

(c) By the submission of this bid, the bidder certifies that it does not and will not maintain or provide for its employees any segregated facilities at any of its establishments, and that it does not and will not permit its employees to perform their services at any location under its control where segregated facilities are maintained. The bidder agrees that a breach of this certification is a violation of the Equal Employment Opportunity clause in the contract.

(d) The bidder further agrees that (except where it has obtained identical certifications from proposed subcontractors for specific time periods) prior to entering into subcontracts which exceed \$10,000 and are not exempt from the requirements of the Equal Employment Opportunity clause, it will:

(1) Obtain identical certifications from the proposed subcontractors;

(2) Retain the certifications in its files; and

(3) Forward the following notice to the proposed subcontractors (except if the proposed subcontractors have submitted identical certifications for specific time periods):

Notice to Prospective Subcontractors of Requirement for Certifications of Nonsegregated Facilities

A Certification of Nonsegregated Facilities must be submitted before the award of a subcontract exceeding \$10,000 which is not exempt from the provisions of the Equal Employment Opportunity clause of the prime contract. The certification may be submitted either for each subcontract or for all subcontracts during a period (i.e., quarterly, semiannually, or annually).

Note: The penalty for making false statements in bids is prescribed in 18 U.S.C. 1001.

11. Clean Air and Water Certification (applicable to contracts exceeding \$100,000)

The bidder certifies that:

(a) Any facility to be used in the performance of this contract [] is, [] is not listed on the Environmental Protection Agency List of Violating Facilities:

(b) The bidder will immediately notify the PHA/IHA Contracting Officer, before award, of the receipt of any communication from the Administrator, or a designee, of the Environmental Protection Agency, indicating that any facility that the bidder proposes to use for the performance of the contract is under consideration to be listed on the EPA List of Violating Facilities; and,

(c) The bidder will include a certification substantially the same as this certification, including this paragraph (c), in every nonexempt subcontract.

12. Previous Participation Certificate - Not Used

13. Bidder's Signature

The bidder hereby certifies that the information contained in these certifications and representations is accurate, complete, and current.

(Signature and Date)

(Typed or Printed Name)

(Title)

(Company Name)

(Company Address)

NON-DEBARRED CERTIFICATION

GENERATOR REPLACEMENT
Riverside & Waterfall High-Rises
Elkhart Housing Authority
Elkhart, Indiana

Date: _____

Signature of: _____

Owner if Bidder is a Sole Proprietor
Partner if Bidder is a Partnership
Officer if Bidder is a Corporation

Name of Bidder's Company

Address

Location

This is to certify that the above signed Bidder is not nor has been debarred, suspended, or otherwise prohibited from contracting or entering into construction/modernization agreements with any Federal, State or Local Agency, including the U.S. Department of HUD.

PROPOSED WAGE RATE FOR
UNLISTED CLASSIFICATIONS

	<u>Classification</u>	<u>Rate</u>	<u>Fringe</u>
1)			
2)			
3)			
4)			
5)			
6)			
7)			
8)			
9)			
10)			

FROM PUBLIC LAW 110-690, NOV. 1988, TITLE 5,
DRUG-FREE WORKPLACE ACT OF 1988

DRUG-FREE WORKPLACE REQUIREMENTS FOR FEDERAL CONTRACTORS

A. Drug-Free Workplace Requirements:

1. Requirement for Persons Other Than Individuals - No person, other than an individual shall be considered a responsible source, under the meaning of such term as defined in section 4(8) of the Office of Federal Procurement Policy Act [41 U.S.C. 403(8)], for the purposes of being awarded a contract for the procurement of any property or services of a value of \$25,000 or more from any Federal agency unless such person has certified to the contracting agency that it will provide a drug-free workplace by:
 - a. publishing a statement notifying employees that the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance is prohibited in the person's workplace and specifying the actions that will be taken against employees for violations of such prohibition;
 - b. establishing a drug-free awareness program to inform employees about:
 - i. the dangers of drug abuse in the workplace;
 - ii. the person's policy of maintaining a drug-free workplace;
 - iii. any available drug counseling, rehabilitation, and employee assistance programs;
 - and
 - iv. the penalties that may be imposed upon employees for drug abuse violations;
 - c. making it a requirement that each employee be engaged in the performance of such contract be given a copy of the statement required by subparagraph (a).
 - d. notifying the employee in the statement required by subparagraph (a), that as a condition of employment on such contract the employee will:
 - i. abide by the terms of the statement; and
 - ii. notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five (5) days after such conviction;
 - e. notifying the contracting agency within 10 days after receiving notice under subparagraph (d), (ii), from an employee or otherwise receiving actual notice of such conviction;
 - f. imposing a sanction on, or requiring the satisfactory participation in a drug abuse assistance or rehabilitation program by any employee who is convicted as required by section 5154; and
 - g. making a good faith effort to continue to maintain a drug-free workplace through implementation of subparagraph (a), (b), (c), (d), (e), and (f).
2. Requirements for Individuals - No Federal agency shall enter into a contract with an individual unless such contract includes a certification by the individual that the individual will not engage in the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance in the performance of the contract.

B. Suspension, Termination, or Debarment of the Contractor.

1. Grounds for Suspension, Termination, or Debarment - Each contract awarded by a Federal agency shall be subject to suspension of payments under the contract or termination of the contract, or both, and the contractor thereunder or the individual who entered the contract with the Federal agency, as applicable, shall be subject to suspension or debarment in accordance with the requirements of this section if the head of the agency determines that:
 - a. the contractor or individual has made a false certification under subsection (A);
 - b. the contractor violates such certification by failing to carry out the requirements of subparagraph (a), (b), (c), (d), (e), or (f) of subsection (a), (l) or
 - c. such a number of employees of such contractor have been convicted of criminal drug statutes for violations occurring in the workplace as to indicate that the contractor has failed to make a good faith effort to provide a drug-free workplace as required by subsection (A).
2. Conduct of Suspension, Termination, and Debarment Proceedings.
 - a. if an contracting officer determines, in writing, that cause for suspension of payments, termination, or suspension or debarment exists, an appropriate action shall be initiated by a contracting officer of the agency, to be conducted by the agency concerned in accordance with Federal Acquisition Regulation and applicable agency procedures.
 - b. the Federal Acquisition Regulation shall be revised to include rules for conducting suspension and debarment proceedings under this subsection, including the rules providing notice the opportunity to respond in writing or in person, and such other procedures as may be necessary to provide a full and fair proceeding to a contractor or individual in such proceeding.
3. Effect of Debarment - Upon issuance of any final decision under this subsection requiring debarment of a contractor or individual, such contractor or individual shall be ineligible for award of any contract by any Federal agency, and for the participation in any future procurement by any Federal agency for a period specified in the decision not to exceed five (5) years.

Certification for a Drug-Free Workplace

Public reporting burden. Public reporting burden for this collection of information is estimated to average 0.25 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Comments regarding the accuracy of this burden estimate and any suggestions for reducing this burden can be sent to: U.S. Department of Housing and Urban Development, Office of the Chief Data Officer, R, 451 7th St SW, Room 8210, Washington, DC 20410-5000. Do not send completed forms to this address. This agency may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number. HUD is authorized to collect this information under the authority cited in the Notice of Funding Opportunity for this grant program. The information collected will provide proposed budget data for multiple programs. HUD will use this information in the selection of applicants. This information is required to obtain the benefit sought in the grant program. This information will not be held confidential and may be made available to the public in accordance with the Freedom of Information Act (5 U.S.C. §552).

Applicant Name

Program/Activity Receiving Federal Grant Funding

Acting on behalf of the above named Applicant as its Authorized Official, I make the following certifications and agreements to the Department of Housing and Urban Development (HUD) regarding the sites listed below:

I certify that the above named Applicant will or will continue to provide a drug-free workplace by:

a. Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the Applicant's workplace and specifying the actions that will be taken against employees for violation of such prohibition.

b. Establishing an on-going drug-free awareness program to inform employees ---

(1) The dangers of drug abuse in the workplace;

(2) The Applicant's policy of maintaining a drug-free workplace;

(3) Any available drug counseling, rehabilitation, and employee assistance programs; and

(4) The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace.

c. Making it a requirement that each employee to be engaged in the performance of the grant be given a copy of the statement required by paragraph a.;

d. Notifying the employee in the statement required by paragraph a. that, as a condition of employment under the grant, the employee will ---

(1) Abide by the terms of the statement; and

(2) Notify the employer in writing of his or her conviction for a violation of a criminal drug statute occurring in the workplace no later than five calendar days after such conviction;

e. Notifying the agency in writing, within ten calendar days after receiving notice under subparagraph d.(2) from an employee or otherwise receiving actual notice of such conviction. Employers of convicted employees must provide notice, including position title, to every grant officer or other designee on whose grant activity the convicted employee was working, unless the Federal agency has designated a central point for the receipt of such notices. Notice shall include the identification number(s) of each affected grant;

f. Taking one of the following actions, within 30 calendar days of receiving notice under subparagraph d.(2), with respect to any employee who is so convicted ---

(1) Taking appropriate personnel action against such an employee, up to and including termination, consistent with the requirements of the Rehabilitation Act of 1973, as amended; or

(2) Requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State, or local health, law enforcement, or other appropriate agency;

g. Making a good faith effort to continue to maintain a drug-free workplace through implementation of paragraphs a. thru f.

2. Sites for Work Performance. The Applicant shall list (on separate pages) the site(s) for the performance of work done in connection with the HUD funding of the program/activity shown above: Place of Performance shall include the street address, city, county, State, and zip code. Identify each sheet with the Applicant name and address and the program/activity receiving grant funding.)

Check here if there are workplaces on file that are not identified on the attached sheets.

I/We, the undersigned, certify under penalty of perjury that the information provided above is true and correct.

WARNING: Anyone who knowingly submits a false claim or makes a false statement is subject to criminal and/or civil penalties, including confinement for up to 5 years, fines, and civil and administrative penalties. (18 U.S.C. §§ 287, 1001, 1010, 1012, 1014; 31 U.S.C. §3729, 3802).

Name of Authorized Official		Title	
Signature		Date	
X			

form HUD-50070 (3/98)
ref. Handbooks 7417.1, 7475.13, 7485.1 & .3

FORM OF CONTRACT

AGREEMENT made this _____ day of _____, in the year Two Thousand _____, by and between _____, a corporation organized and existing under the laws of the state of _____, a partnership consisting of _____, or individual trading as _____, hereinafter called the "Contractor" and _____ (Housing Authority/Commission's Name, Address, City, State & Zip], hereinafter called the "PHA".

WITNESSETH, That the Contractor and the PHA for the consideration stated herein mutually agree as follows:

ARTICLE 1. Statement of Work. The Contractor shall furnish all labor, material, equipment and services, and perform and complete all work required for the Elkhart Housing Authority, in strict accordance with the Specifications, Addenda thereto, and Drawings referred to therein, all as prepared by Alliance Architects and enumerated under Article 4 below, which said Specifications, Addenda and Drawings are incorporated herein by reference and made a part hereof.

ARTICLE 2. Contract Price. The PHA shall pay the Contractor for the performance of the Contract, in current funds, subject to additions and deductions as provided in the Specifications, the sum of _____ Dollars (\$ _____).

ARTICLE 3. Contract Time: The work shall be completed within _____ calendar days after the date of the Notice to Proceed issued to the Contractor by the Owner.

ARTICLE 4. Contract Documents. The contract shall consist of the following component parts:

- a. This Instrument
- b. Contractors Bid/Proposal and Bid Bond
- c. General Conditions of the Contract for Construction
- d. Special Conditions
- e. General Requirements
- f. Prevailing Wage Decision
- g. Technical Specifications
- h. Drawings
- i. Any and All Addenda

This instrument, together with the other documents enumerated in this Article 4, which said other documents are as fully a part of the Contract as if hereto attached or herein repeated, form the Contract. In the event that any provision in any component part of this Contract conflicts with any provision of any other component part, the provision of the component part first enumerated in this Article 4 shall govern, except as otherwise specifically stated. The various provisions in Addenda shall be construed in the order of preference of the component part of the Contract which each modifies.

ARTICLE 5. Liquidated Damages. The Contractor is responsible for completing the project within the time established in the Construction Contract as stipulated in Article 3 unless time extensions are authorized by the Architect and the Owner and documented via executed Change Order. If the work is not completed by the contract date, the Contractor shall be liable for liquidated damages resulting from such unexcused delays.

Liquidated damages shall be assessed at a rate not to exceed \$200.00 per day for each calendar day the contract time exceeds that set forth in Article 3 of the Agreement. These liquidated damages are payable to the Owner on demand and the Owner may, at its option, be paid from any retainage owed to Contractor on the Job, whether held in escrow or not, or retain the amount of such damages from any additional payments which Contractor is otherwise entitled to receive under this Agreement.

Liquidated damages shall reflect monetary losses by Owner as a result of the failure by Contractor to complete the work by the contract date. The Architect will review the total amount of liquidated damages being assessed and will advise both Owner and Contractor as to his opinion whether the amount of damages established by the Owner is reasonable.

Contractor agrees that the maximum liquidated damages amount established herein is reasonable. Contractor further agrees that it will pay assessed liquidated damages to Owner upon request together with Owner's costs of collection, including but not limited to its attorney's fees and expenses.

IN WITNESS WHEREOF, the parties hereto have caused This Instrument to be executed for three original counterparts as of the day and year first above written.

Attest:

(Contractor)

By: _____

Title:

Title:

(PRINT OR TYPE THE NAMES AND TITLES OF ALL SIGNATORIES)

Business Address:

(Street)

(City) (Zip Code)

CERTIFICATION

I, _____, certify that I am the _____ of the corporation named as Contractor herein; that _____, who signed said Contract on behalf of the Contractor was then _____ of said corporation; that I know this signature, and his signature thereto is genuine; and that said Contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate power.

(Corporate Seal)

ELKHART HOUSING AUTHORITY

By: _____
Angelia M. Washington

Title: Executive Director

Business Address:

1396 Benham Avenue
Elkhart, Indiana 46516

HOLD HARMLESS AGREEMENT

The Housing Authority named below and _____ (Contractor) agree that, with regard to indemnification issues, the following language shall take precedence over any indemnification language contained within the Contract Document itself:

In addition to the PHA, its officers and agents, clause 2, article (d) and clause 16, article (j) of the HUD General Conditions, the Contractor shall defend, indemnify and hold harmless to the fullest extent permitted by law the Owner, Architect, Architect's Consultants, and Agents and Employees of any of them from any and all loses, costs, damages, liability and expenses including reasonable attorney fees in connection with claims or suits for damage to property and/or injury to persons, including death, alleged or claimed to have been caused by or through the performance of the work or operations incidental to the work, by the Contractor, his agents or employees, or by his subcontractors of any tier, their agents or employees, whether through negligence or willful act; and the Contractor shall at the request of the Owner and/or Architect undertake to investigate and defend any and all such claims or suits against the Owner, Architect, Architect's Consultants, and Agents and Employees of any of them. The indemnification obligation under the paragraph shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the Contractor or its subcontractor under Worker's Compensation Acts, Disability Acts, or other Employee Benefit Acts.

ACCEPTED:

(Housing Authority/Commission Name)

(Contractor Name)

Signed: _____

Signed: _____

By: _____
(Printed Name)

By: _____
(Printed Name)

Title: _____

Title: _____

Date: _____

Date: _____

NOTICE TO PROCEED

_____ Date: _____
_____ Project No.: _____
_____ Location: _____

RE:

Gentlemen:

Pursuant to terms of your contract, dated _____, 20_____, for the above-referenced project, you are hereby notified to commence work thereunder not later than _____, 20_____. The time for completion set forth in the contract is _____ calendar days, including the starting day, which establishes _____, 20_____, as the date by which Substantial Completion must be achieved.

Please note carefully and fulfill the requirements of the General Conditions relative to the submittal and approval of Workmen's Compensation, Manufacturer's and Contractor's Public Liability Insurance. This Notice is issued based upon the acceptability of the previously submitted documentation and certification outlined herein.

You are informed that _____ has been appointed Contracting Officer and is duly authorized to administer your contract for, and in the name of, this Housing Authority.

Promptly acknowledge receipt of this Notice by signing, dating and returning all copies promptly of this office.

Very Truly Yours,
HOUSING AUTHORITY

Enclosures By: _____

Accepted: Title: Executive Director

_____ By: _____
ALLIANCE ARCHITECTS

Title: _____

Date: _____ By: _____

**Equal Employment
Opportunity Certification**
Excerpt From 41 CFR §60-1.4(b)

**U.S. Department of Housing
and Urban Development**
Office of Housing
Federal Housing Commissioner

Department of Veterans Affairs
OMB Control No. 2502-0029
(exp. 4/30/2020)

The applicant hereby agrees that it will incorporate or cause to be incorporated into any contract for construction work, or modification thereof, as defined in the regulations of the Secretary of Labor at 41 CFR Chapter 60, which is paid for in whole or in part with funds obtained from the Federal Government or borrowed on the credit of the Federal Government pursuant to a grant, contract, loan insurance, or guarantee, or undertaken pursuant to any Federal program involving such grant, contract, loan, insurance, or guarantee, the following equal opportunity clause:

During the performance of this contract, the contractor agrees as follows:

- (1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin, such action shall include, but not be limited to the following: Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
- (2) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive considerations for employment without regard to race, color, religion, sex, or national origin.
- (3) The contractor will send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- (4) The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations and relevant orders of the Secretary of Labor.
- (5) The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to its books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

- (6) In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
- (7) The contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance: **Provided, however,** That in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency the contractor may request the United States to enter into such litigation to protect the interests of the United States.

The applicant further agrees that it will be bound by the above equal opportunity clause with respect to its own employment practices when it participates in federally assisted construction work:

Provided, That if the applicant so participating is a State or local government, the above equal opportunity clause is not applicable to any agency, instrumentality or subdivision of such government which does not participate in work on or under the contract.

The applicant agrees that it will assist and cooperate actively with the administering agency and the Secretary of Labor in obtaining the compliance of contractors and subcontractors with the equal opportunity clause and the rules, regulations, and relevant orders of the Secretary of Labor, that it will furnish the administering agency and the Secretary of Labor such information as they may require for the supervision of such compliance, and that it will otherwise assist the administering agency in the discharge of the agency's primary responsibility for securing compliance.

The applicant further agrees that it will refrain from entering into any contract or contract modification subject to Executive Order 11246 of September 24, 1965, with a contractor debarred from, or who has not demonstrated eligibility for, Government contracts and Federally-assisted construction contracts pursuant to the Executive order and will carry out such sanctions and penalties for violation of the equal opportunity clause as may be imposed

Firm Name and Address	By
	Title

upon contractors and subcontractors by the administering agency or the Secretary of Labor pursuant to Part II, Subpart D of the Executive order. In addition, the applicant agrees that if it fails or refuses to comply with these undertakings, the administering agency may take any or all of the following actions: Cancel, terminate, or suspend in whole or in part this grant (contract, loan, insurance, guarantee); refrain from extending any further assistance to the applicant under the program with respect to which the failure or refund occurred until satisfactory assurance of future compliance has been received from such applicant; and refer the case to the Department of Justice for appropriate legal proceedings.

Excerpt from HUD Regulations

200.410 Definition of term "applicant".

- (a) In multifamily housing transactions where controls over the mortgagor are exercised by the Commissioner either through the ownership of corporate stock or under the provisions of a regulatory agreement, the term "applicant" as used in this subpart shall mean the mortgagor.
- (b) In transactions other than those specified in paragraph(a) of this section, the term "applicant" as used in this subpart shall mean the builder, dealer or contractor performing the construction, repair or rehabilitation work for the mortgagor or other borrower.

200.420 Equal Opportunity Clause to be included in contracts and subcontracts.

- (a) The following equal opportunity clause shall be included in each contract and subcontract which is not exempt:

During the performance of this contract, the contractor agrees as follows:

- (1) The contractor will not discriminate against any employee or applicant for employment because of race, creed, color, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, creed, color, or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of the nondiscrimination clause.

- (2) The contractor will in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard race, creed, color, or national origin.

- (3) The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice, to be provided, advising the said labor union or workers' representative of the contractor's commitments under this section, and shall post copies of the notices in conspicuous places available to employees and applicants for employment.

- (4) The contractor will comply with all provisions of Executive Order 10925 of March 6 1961, as amended, and of the regulations, and relevant orders of the President's Committee on Equal Employment Opportunity created thereby.

- (5) The contractor will furnish all information and reports required by Executive Order 10925 of March 6, 1961, as amended, and by the regulations, and orders of the said Committee, or pursuant thereto, and will permit access to his books, records, and accounts by HUD and the Committee for purposes of investigation to ascertain compliance with such regulations, and orders.

- (6) In the event of the contractor's non-compliance with the nondiscrimination clause of this contract or with any of the said regulations, or orders, this contract may be cancelled, terminated or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or Federally-assisted construction contracts in accordance with procedures authorized in Executive Order 10925 of March 6, 1961, as amended, and such other sanctions may be imposed and remedies invoked provided in the said Executive Order or by regulations, or order of the President's Committee on Equal Employment Opportunity, or as otherwise provided by law.

- (7) The contractor will include the provisions of Paragraphs(1) through (7) in every subcontract or purchase order unless exempted by regulations, or orders of the President's Committee on Equal Employment Opportunity issued pursuant to Section 303 of Executive Order 10925 of March 6, 1961, as amended, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase orders as HUD may direct as a means of enforcing such provisions, including sanctions for noncompliance: Provided, however, that in the event the contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by HUD, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

- (b) Except in subcontracts for the performance of construction work at the site of construction, the clause is not required to be inserted in subcontracts below the second tier. Subcontracts may incorporate by reference to the equal opportunity clause.

200.425 Modification in and exemptions from the regulations in this subpart.

- (a) The following transactions and contracts are exempt from the regulations in this subpart:

- (1) Loans, mortgages, contracts and subcontracts not exceeding \$10,000.

- (2) Contract and subcontracts not exceeding \$100,000 for standard commercial supplies or raw material;

- (3) Contracts and subcontracts under which work is to be or has been performed outside the United States and where no recruitment of workers within the United States is involved. To the extent that work pursuant to such contracts is done within the United States, the equal opportunity clause shall be applicable;

- (4) Contracts for the sale of Government property where no appreciable amount of work is involved; and

- (5) Contracts and subcontracts for an indefinite quantity which are not to extend for more than one year if the purchaser determines that the amounts to be ordered under any such contract or subcontract are not reasonably expected to exceed \$100,000 in the case of contracts or subcontracts for standard commercial supplies and raw materials, or \$10,000 in the case of all other contracts and subcontracts.

SECTION 3 PLAN

1. Overview of Section 3 Requirements

A. WHAT IS SECTION 3?

Section 3 is a provision of the Housing and Urban Development Act of 1968 (12 U.S.C. 1701u) that is regulated by the provisions of 24 CFR 75. Section 3 regulations ensure that employment and other economic opportunities generated by certain HUD financial assistance shall, to the greatest extent feasible, and consistent with existing Federal, State and local laws and regulations, be directed to low- and very low-income persons, particularly those who are recipients of government assistance for housing, and to business concerns which provide economic opportunities to low- and very low-income persons.

B. PURPOSE OF THIS DOCUMENT

This plan outlines how the Housing Authority City of Elkhart (HACE) and its subrecipients, contractors and subcontractors will comply with HUD's Section 3 requirements in implementing HUD funded programs. Bidder will, to the greatest extent feasible, ensure that employment and other economic opportunities are directed to low- and very low-income persons (Section 3 workers and Targeted Section 3 workers) and to eligible businesses (Section 3 Businesses) and requires the same of its contractors.

Housing Authority City of Elkhart may amend its Section 3 Policies and Procedures document as necessary to ensure continued compliance with HUD's requirements and/or to reflect updated Section 3 guidance and outreach strategies.

C. APPLICABILITY

For public housing financial assistance, all funding is covered, regardless of the amount of expenditure or size of a contract. This plan applies to development assistance, operating funds, capital funds, and all mixed-finance development.

For housing and community development financial assistance, this plan applies to housing rehabilitation, housing construction, and other public construction projects that exceed \$200,000 or more of housing and community development financial assistance from one or more HUD programs. Applicability is determined at the project level.

For projects funded with Lead and Hazard Control and Healthy Homes Programs, this plan applies to projects that exceed \$100,000.

This plan also applies to projects that include multiple funding sources. Multiple funding source projects include projects that include public housing financial assistance, housing and community development financial assistance for single or multiple recipients, and the Lead Hazard Control and Healthy Homes Program.

Section 3 requirements **do not** apply to: 1) Material Supply Contracts - § 75.3(b), 2) Indian and Tribal Acknowledgments - § 75.3(c), and 3) Other HUD assistance and other Federal assistance not subject to Section 3 §75.3 (d). However, for financial assistance that is not subject to Section 3, recipients are encouraged to consider ways to support the purpose of Section 3.

SECTION 3 COORDINATOR

Housing Authority City of Elkhart Section 3 Coordinator serves as the central point of contact for Section 3 compliance for the PHA and its subrecipients, contractors and subcontractors supporting the program. Subrecipients, contractors, subcontractors and others are encouraged to reach out to the HACE Section 3 Coordinator with questions regarding Section 3 compliance:

Erik Mathavan
Director, Comprehensive Improvements
Erik.Mathavan@ehai.org

2. Employment, Training, and Contracting Goals

A. SAFE HARBOR COMPLIANCE

Bidder will be considered to have complied with the Section 3 requirements and met safe harbor, if they certify that they followed the required prioritization of effort and met or exceeded the Section 3 benchmarks, absent evidence of the contrary.

Prior to the beginning of work, contractors and subcontractors will be required to certify that they will follow the required prioritization of effort for Section 3 workers, Targeted Section 3 workers, and Section 3 business concerns as outlined below in Section C. After completion of the project, on the Section 3 Cumulative Report, contractors and subcontractors will be required to certify that they followed the prioritization of effort requirements.

If the contractor and subcontractor does not meet the safe harbor requirements, they must provide evidence that they have made qualitative efforts to assist low and very low-income persons with employment and training opportunities.

B. SAFE HARBOR BENCHMARKS

Bidder has established employment and training goals that subrecipients, contractors, and subcontractors should meet to comply with Section 3 requirements outlined in 24 CFR Part 75.9 - for public housing financial assistance. The safe harbor benchmark goals are as follows:

- 1) Twenty-five (25) percent or more of the total number of labor hours worked by all workers employed with public housing financial assistance in the PHA's fiscal year are Section 3 workers;

Section 3 Labor Hours/Total Labor Hours = 25%

And

- 2) Five (5) percent or more of the total number of labor hours worked by all workers employed with public housing financial assistance in the PHA's fiscal year are Targeted Section 3 workers, as defined at 24 CFR Part 75.11.

Targeted Section 3 Labor Hours/Total Labor Hours = 5%

HUD establishes and updates Section 3 benchmarks for Section 3 workers and/or Targeted Section 3 workers through a document published in the Federal Register, not less frequently than once every 3 years. Given that the Section 3 benchmarks are subject to change every three years or sooner, Housing Authority City of Elkhart will review and update the Section 3 Plan every 6 years/months, as needed.

It is the responsibility of contractors to implement efforts to achieve Section 3 compliance. Any contractor that does not meet the Section 3 benchmarks must demonstrate why meeting the benchmarks were not feasible. All contractors submitting bids or proposals to the Housing Authority City of Elkhart are required to certify that they will comply with the requirements of Section 3.

C. CERTIFICATION OF PRIORITIZATION OF EFFORT FOR EMPLOYMENT, TRAINING, AND CONTRACTING

EMPLOYMENT AND TRAINING

Under the HACE Section 3 Program, contractors and subcontractors should make best efforts to provide employment and training opportunities to Section 3 workers in the priority order listed below:

- 1) To residents of the public housing projects for which the public housing financial assistance is expended;
- 2) To residents of other public housing projects managed by the PHA that is providing the assistance or for residents of Section 8-assisted housing managed by the PHA;
- 3) To participants in YouthBuild programs; and
- 4) To low- and very low-income persons residing within the metropolitan area (or nonmetropolitan county) in which the assistance is expended.

Low and very low-income within Elkhart County, IN, is defined as residents within the following income levels for FY 2022 (Median Income = \$83,600):

[Table No. 1]

Income Limit Category	(1) Person	(2) Persons	(3) Persons	(4) Persons	(5) Persons	(6) Persons	(7) Persons	(8) Persons
Very Low (50%)	\$26,450	\$30,200	\$34,000	\$37,750	\$40,800	\$43,800	\$46,850	\$49,850
Extremely Low (30%)	\$15,900	\$18,310	\$23,030	\$27,750	\$32,470	\$37,190	\$41,910	\$46,630
Low (80%)	\$42,300	\$48,350	\$54,400	\$60,400	\$65,250	\$70,100	\$74,900	\$79,750

Income Limit figures are based on FY2022 Fair Market Rent (FMR). For a detailed account of how these limits are derived, please see our associated FY2022 FMR documentation.

CONTRACTING

Under the HACE Section 3 Program, contractors and subcontractors must make their best efforts to award contracts and subcontracts to business concerns that provide economic opportunities to Section 3 workers in the following order or priority:

- 1) Section 3 business concerns that provide economic opportunities for residents of public housing projects for which the assistance is provided;
- 2) Section 3 business concerns that provide economic opportunities for residents of other public housing projects or Section-8 assisted housing managed by the PHA that is providing assistance;
- 3) YouthBuild programs; and
- 4) Section 3 business concerns that provide economic opportunities to Section 3 workers residing within the metropolitan area (or nonmetropolitan county) in which the assistance is provided.

Contractors and subcontractors will be required to certify that they will and have made best efforts to follow the prioritization of effort requirements prior to the beginning work and after work is completed.

3. Section 3 Eligibility and Certifications

Individuals and businesses that meet Section 3 criteria may seek Section 3 acknowledgement from HACE or its contractors/subcontractors for training, employment, or contracting opportunities generated by public housing financial assistance. To qualify as a Section 3 worker, Targeted Section 3 worker, or a Section 3 business concern, each must self-certify that they meet the applicable criteria.

Businesses who misrepresent themselves as Section 3 business concerns and report false information to HACE may have their contracts terminated as default and be barred from ongoing and future considerations for contracting opportunities.

A. SECTION 3 WORKER AND TARGETED SECTION 3 WORKER CERTIFICATION

A Section 3 worker seeking certification shall submit self-certification documentation to the recipient contractor or subcontractor, that the person is a Section 3 worker or Targeted Section 3 worker as defined in 24 CFR Part 75. For the purposes of Section 3 worker eligibility, HACE will use individual income rather than family/household income to determine eligibility. The income limits will be determined annually using the guidelines published at <https://www.huduser.org/portal/datasets/il.html>.

Persons seeking the Section 3 worker acknowledgment shall demonstrate that it meets one or more of the following criteria currently or when hired within the past five years, as documented:

- 1) A low or very low-income resident (the worker's income for the previous or annualized calendar year is below the income limit established by HUD); or
- 2) Employed by a Section 3 business concern; or
- 3) A YouthBuild participant.

Persons seeking the Targeted Section 3 worker acknowledgment shall demonstrate that it meets one or more of the following criteria:

Employed by a Section 3 business concern or

- 1) Currently meets or when hired met at least one of the following categories as documented within the past five years:
 - a) A resident of public housing; or
 - b) A resident of other public housing projects or Section 8-assisted housing; or
 - c) A YouthBuild participant.

The individual must contact the Housing Authority City of Elkhart or developer from which they are seeking employment or contracting opportunities. They should identify themselves as a Section 3 worker or Targeted Section 3 worker and provide the documentation required for certification procedures.

Prospective Section 3 workers may self-certify that they meet the requirements as defined in the regulations.

There are many ways that a worker can be certified as either a Section 3 Worker or Targeted Section 3 Worker under 24 CFR part 75:

- (1) For a worker to qualify as a Section 3 worker, one of the following must be maintained:
 - (i) A worker's self-certification that their income is below the income limit from the prior calendar year;
 - (ii) A worker's self-certification of participation in a means-tested program such as public housing or Section 8-assisted housing;
 - (iii) Certification from a PHA, or the owner or property manager of project-based Section 8-assisted housing, or the administrator of tenant-based Section 8-assisted housing that the worker is a participant in one of their programs;

- (iv) An employer's certification that the worker's income from that employer is below the income limit when based on an employer's calculation of what the worker's wage rate would translate to if annualized on a full-time basis; or
 - (v) An employer's certification that the worker is employed by a Section 3 business concern.
- (2) For a worker to qualify as a Targeted Section 3 worker, one of the following must be maintained:
- (i) A worker's self-certification of participation in public housing or Section 8-assisted housing programs;
 - (ii) Certification from a PHA, or the owner or property manager of project-based Section 8-assisted housing, or the administrator of tenant-based Section 8-assisted housing that the worker is a participant in one of their programs;
 - (iii) An employer's certification that the worker is employed by a Section 3 business concern; or
 - (iv) A worker's certification that the worker is a YouthBuild participant.

The documentation must be maintained for the period required for record retentions in accordance with applicable program regulations or, in the absence of applicable program regulations, in accordance with 2 CFR § 200.334, Retention Requirements for Records (www.ecfr.gov/cgi-bin/retrieveECFR?n=se2.1.200_1334), which provides for retaining records for at least three years, as described in detail in that regulation. HACE or Bidder may report on Section 3 workers and Targeted Section 3 workers for five years from when their certification as a Section 3 worker or Targeted Section 3 worker is established.

HUD does not prescribe any specific forms of evidence to establish Section 3 eligibility. Acceptable documentation includes, but is not limited to the following:

- Proof of residency in a public housing project; or
- Evidence of participation in the YouthBuild program.

B. SECTION 3 BUSINESS CONCERN CERTIFICATION

Businesses that believe they meet the Section 3 Business requirements can/may self-register in the HUD Business registry, here: <http://www.hud.gov/Sec3Biz> as well as the HACE website here: <https://www.ehai.org/business-concern-certification---section-3.html>. Businesses may seek Section 3 Business Concern acknowledgment by demonstrating that it meets one or more of the following criteria:

- 1) At least 51 percent of the business is owned and controlled by low- or very low-income persons; or
- 2) At least 51 percent of the business is owned and controlled by current public housing residents or residents who currently live in Section 8-assisted housing; or
- 3) Over 75 percent of the labor hours performed for the business over the prior three-month period are performed by Section 3 workers.

Businesses that seek Section 3 acknowledgment shall certify, or demonstrate to the Housing Authority City of Elkhart, contractors, or subcontractors, that they meet the definitions provided in the above.

Businesses may demonstrate eligibility by submitting the Section 3 Business Concern Certification Form attached.

Section 3 Business Concern Certification Forms must be submitted at the time of bid/proposal. If the HACE previously approved the business concern to be Section 3 certified, then the certification can be submitted along with the bid, as long as the form is submitted within the prescribed expiration date. The Section 3 Business Concern Certification Form will expire after 12 months. Establishing a 12 month certification of eligibility period allows the HACE the ability to assess contractor performance to ensure the business is striving to meet the required goals.

SECTION 3 COMPLIANCE AND BUSINESS CONCERN
ACKNOWLEDGMENT EXPLANATION

A. IS PARTICIPATION IN SECTION 3 OPTIONAL?

- Except for purchases or contracts solely for commodities and equipment, as a part of the solicitation the Housing Authority City of Elkhart (HACE) will offer all bidders and proposers the option of an Acknowledgement.
- In response to a competitive solicitation (quotes; bids; RFP's), bidders and proposers are not required to respond to the HACE with a claim of an Acknowledgement (meaning, such claim is optional and failure to respond with a claim of an Acknowledgement will not cause the bidder or proposer to be deemed non-responsive); however, if a bidder or proposer does claim an Acknowledgement, then the HACE will consider, investigate, and determine the validity of each such claim for a Acknowledgement.
- Regardless of whether or not a bidder or proposer claims an Acknowledgement in response to a solicitation, the recipient of the award will be required to, "to the greatest extent feasible," implement the requirements of Section 3 during the ensuing awarded contract term.

B. ACKNOWLEDGEMENT AWARD

- A Business which obtains the Business Concern Certification will be recognized for their outstanding effort and achievement amongst our community.
- Certification shall serve as a tiebreaker in the event of two or more firms equally qualified sharing the same lowest winning bid.
- To apply for Business Concern Certification, go to ehai.org, under Comprehensive Improvements, select Business Concern Certification - Section 3 or go to the following link:
<https://www.ehai.org/business-concern-certification---section-3.html>
 - o Certification form must be completed by time of sealed bid submission.

C. SECTION 3 COMPLIANCE & PROGRAM ACKNOWLEDGEMENT*

*(The following must be signed regardless of Business Concern certification/eligibility.)

I have read the Section 3 Plan provided. I am aware that an award as the result of this competitive solicitation, even though I may not receive a Acknowledgement from the HACE because of my Business Concern status, I am still required to, to the greatest extent feasible, provide training, employment, contracting and other economic opportunities to low and very low-income persons, especially recipients of government assistance for housing, and to businesses/subcontractors that provide economic opportunities to low and very low-income persons.

Whether or not I apply for Section 3 Business Concern Certification for Contracting, I may be required to provide HACE an estimate number of Section 3 Labor Hours to arise as a result of my business participation on this project.

Print Name: _____

Signature: _____

Date: _____

Copies of this notice will be posted by the Contractor in conspicuous places available to employees and applicants for employment.

COPIES OF THIS NOTICE ARE TO BE FURNISHED BY THE CONTRACTOR TO LABOR UNIONS OR OTHER ORGANIZATIONS OR WORKERS, APPRENTICESHIP AND TRAINING PROGRAM SPONSORS, AND EMPLOYMENT REFERRAL AGENCIES.

NOTICE OF NONDISCRIMINATION IN EMPLOYMENT

TO: _____
(Employees of Contractor, union or organization of workers, employment referral agencies, and training program sponsors)

The undersigned currently holds, or represents contractors or subcontractors who currently hold, contract or subcontracts and may in the future bid on contracts or subcontracts which are subject to the provisions of Executive Orders 10925 of March 6, 1961, as amended, and 11114 of June 22, 1963 and 11246 as amended on September 25, 1965.

You are advised that, under the provisions of these contracts and in accordance with these Executive Orders, contractors and subcontractors are obliged to take affirmative action to provide equal employment opportunity without regard to race, creed, color, or national origin. This obligation includes, but is not limited to the following:

HIRING, PLACEMENT, UPGRADING, TRANSFER, OR DEMOTION, RECRUITMENT, ADVERTISING, OR SOLICITATION FOR EMPLOYMENT, TREATMENT DURING EMPLOYMENT RATES OR PAY OR OTHER FORMS OF COMPENSATION. SELECTION FOR TRAINING INCLUDING APPRENTICESHIP, LAYOFF OR TERMINATION.

This obligation extends, so far as the responsibility of the undersigned is concerned, to any arrangement under which journeymen or apprentices are selected and referred for work on its projects.

This notice is furnished you pursuant to the provisions of such contracts or subcontracts and Executive Orders 10925 and 11114 and 11246.

(Contractor or Subcontractor)

(Date)

SUBCONTRACTS AWARDED

PROJECT _____

PRIME CONTRACTOR _____

		The Following are Required for all Subcontractors and Sub-Subcontractors		
Subcontractor & Supplier Name, Address, Tax I.D. Number & Minority Status	Dollar Amount of Subcontract	Request for Acceptance of Subcontractor Form	Non-Collusive Affidavit for Subcontractor	Certificate of Liability Insurance

REQUEST FOR ACCEPTANCE OF SUBCONTRACTOR

TO: _____

Date: _____

Project No.: _____

(Project Name)

(Project Location)

In accordance with our prime Contract for _____ of this project, we request acceptance of the following proposed subcontractor to perform work and to supply material as indicated below:

1. _____
(Name)

(Street Address) (City) (State) (Zip Code)

2. Scope of work (state kind of work, if labor, or material, or both, and give Specification reference):

3. The subcontractor's non-collusive affidavit in the form required by our Contract is furnished herewith (original only, attached to the original of this request).

4. We warrant that the provisions required by our Contract with the Owner will be inserted in each subcontract for all of our subcontractors.

5. We certify that this proposed subcontractor is not ineligible to receive awards of contracts from the United States as evidenced by the lists of such contractors maintained by HUD.

6. There will be no assignment of interest in this subcontract except as follows (if none, so state):

7. Terms of payment: _____ Price: \$ _____

8. Remarks: _____
(Prime Contractor)

9. Federal ID # _____ By: _____
Title: _____

* If a sales agent, identify the manufacturer under "Remarks". If for a subcontractor, identify principal subcontractor under "Remarks".

ACCEPTANCE OR REJECTION

The proposed subcontractor named above is _____.

If accepted, the contracting party giving such acceptance assumes no responsibility in connection with the form or terms of the subcontract nor the performance of the subcontractor, and this form will not be returned.

If rejected, the reason(s) will be briefly stated herein, and this form will be returned within 10 days after receipt.

(Date)

(Contracting Officer)

**Certificate from Contractor Appointing
Officer or Employee to Supervise
Payment of Employee**

**U.S. Department of Housing
and Urban Development**
Office of Public and Indian Housing

Project Name _____ Date (mm/dd/yyyy) _____

Location _____ Project No. _____

(I) (We) hereby certify that (I am) (we are) (the prime contractor) (a subcontractor) for _____

(specify "General Construction," "Plumbing," "Roofing," etc.) in connection with construction of the above-mentioned Low-Rent Housing Project,

and that (I) (we) have appointed _____, whose signature

appears below, to supervise the payment of (my) (our) employees beginning (Date: mm/dd/yyyy) _____ ;

That he/she is in a position to have full knowledge of the facts set forth in the payroll documents and in the statement of compliance

required by the so-called Kick-Back Statue which he/she is to execute with (my) (our) full authority and approval until such time as (I)

(we) submit to the (Name of Local Authority) _____

a new certificate appointing some other person for the purposes hereinabove stated.

(Identifying Signature of Appointee)

Attest (If required)

(Name of Firm or Corporation)

(Signature)

By _____
(Signature)

(Title)

(Title)

(Date: mm/dd/yyyy)

(Date: mm/dd/yyyy)

Note: This certificate must be execute by an authorized officer of a corporation or by a member of a partnership, and shall be executed prior to and be submitted with the first payroll. Should the appointee be changed, a new certificate must accompany the first payroll for which the new appointee executes a statement of compliance required by the Kick-Back Statue.

CONTRACTOR'S CERTIFICATION
CONCERNING EQUAL EMPLOYMENT OPPORTUNITY REQUIREMENTS

To: Assistant Regional Administrator
U.S. Dept. of Housing & Urban Dev.

Date: _____

Project No.: _____

Project Name: _____

Attn: Director, Compliance and Enforcement

The undersigned, having executed a contract with _____ for
_____ (nature of work) in the amount of \$ _____
in the construction of the above-identified project:

1. Certified that the applicable Bid Conditions and EEO Clause are included in the aforesaid contract.
2. Certifies that he was notified in writing, prior to beginning construction, of his respective obligations under Parts I and II of the Bid Conditions as applicable.
3. Agrees to include by reference the EEO Clause and applicable Bid Conditions in all advertisements or other solicitations for bids and shall include the EEO Clause and applicable Bid Conditions in all contracts.
4. Agrees to immediately report to the appropriate authority any refusal or failure of any subcontractor to fulfill his obligations under the Bid Conditions, including his reporting obligations.

Contractor

Printed Name & Title

By: _____

WARNING: U.S. Criminal Code, Section 1010, Title 18, U.S.C., "Federal Housing Administration Transactions" provides in part: "Whoever, for the purpose of ... influencing in any way the action of such Administration ... makes, passes, utters or publishes any statement, knowing the same to be false ... shall be fined not more than \$5,000 or imprisoned not more than two years, or both."

INSTRUCTIONS FOR PREPARATION
OF STATEMENT OF COMPLIANCE

This statement of compliance meets needs resulting from the amendment of the Davis-Bacon Act to include fringe benefits provisions. Under this amended law, the contractor is required to pay fringe benefits as predetermined by the Department of Labor, in addition to payment of the minimum rates. The contractor's obligation to pay fringe benefits may be met by payment of the fringes to the various plans, funds, or programs or by making these payments to the employees as cash in lieu of fringes.

The contractor should show on the face of his payroll all monies paid to the employees whether as basic rates or as cash in lieu of fringes. The contractor shall represent in the statement of compliance that he is paying to others fringes required by the contract and not paid as cash in lieu of fringes. Detailed instructions follow:

Contractors who pay all required fringe benefits:

A contractor who pays fringe benefits to approved plans, funds, or programs in amounts not less than were determined in the applicable wage decision of the Secretary of Labor shall continue to show on the face of his payroll the basic cash hourly rate and overtime rate paid to his employees, just as he has always done. Such a contractor shall check paragraph 4(a) of the statement to indicate that he is also paying to approved plans, funds, or programs not less than the amount predetermined as fringe benefits for each craft. Any exception shall be noted in Section 4(c).

Contractors who pay no fringe benefits:

A contractor who pays no fringe benefits shall pay to the employee and insert in the straight time hourly rate column of his payroll an amount not less than the predetermined rate for each classification plus the amount of fringe benefits determined for each classification in the applicable wage decision. Inasmuch as it is not necessary to pay time and a half on cash paid in lieu of fringes, the overtime rate shall be not less than the sum of the basic predetermined rate, plus the half time premium on the basic or regular rate plus the required cash in lieu of fringes at the straight time rate. To simplify computation of overtime, it is suggested that the straight time basic rate and cash in lieu of fringes be separately stated in the hourly rate column, thus \$3.25/.40. In addition, the contractor shall check paragraph 4(b) of the statement or indicate that he is paying fringe benefits in cash directly to his employees. Any exceptions shall be noted in Section 4(c).

Use of Section 4(c), Exceptions

Any contractor who is making payment to approved plans, funds, or programs in amounts less than the wage determination requires is obliged to pay the deficiency directly to the employees as cash in lieu of fringes. Any exceptions to Section 4(a) or 4(b), whichever the contractor may check, shall be entered in Section 4(c). Enter in the Exception column the craft, and enter in the Explanation column the hourly amount paid the employees as cash in lieu of fringes, and the hourly amount paid to plans, funds, or programs as fringes.

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Washington, D.C. 20402 - Price \$1.25 per pad of 100

STATEMENT OF COMPLIANCE

Date _____

I, _____, _____ Do hereby state:
(Name of signatory party) (Title)

(1) That I pay or supervise the payment of the persons employed by _____ on the _____
(Contractor or Subcontractor)
that during the payroll period commencing on the ____ day of _____, 20____, all persons employed on said project have been paid the full weekly wages earned that no rebates have been or will be made either directly or indirectly to or on behalf on said _____
(Contractor or Subcontractor)
from the full weekly wages earned by any person and that no deductions have been made either directly or indirectly from the full wages earned by any person, other than permissible deductions as defined in Regulations, Part 3 (29 CFR Subtitle A), issued by the Secretary of Labor under the Copeland Act as Amended (48 Stat. 948, 63 Stat. 108, 72 Stat. 967; 76 Stat. 357; 40 U.S.C. 276c). and described below:

(2) That any payrolls otherwise under this contract required to be submitted for the above period are correct and complete; that the wage rates for laborers or mechanics contained therein are not less than the applicable wage rates contained in any wage determination incorporated into the contract; that the classifications set forth therein for each laborer or mechanic conform with the work he performed.

(3) That any apprentices employed in the above period are duly registered in a bona fide apprenticeship program registered with a State apprenticeship agency recognized by the Bureau of Apprenticeship and Training, United States Department of Labor, or if no such recognized agency exists in a State, are registered with the Bureau of Apprenticeship and Training, United States Department of Labor.

(4) That:

(a) WHERE FRINGE BENEFITS ARE PAID TO APPROVED PLANS, FUNDS, OR PROGRAMS

In addition to the basic hourly wage rates paid to each laborer or mechanic listed in the above referenced payroll payments of fringe benefits as listed in the contract have been or will be made to appropriated programs for the benefit of such employees, except as noted in Section 4(c) below.

(b) WHERE FRINGE BENEFITS ARE PAID IN CASH

Each Laborer or mechanic listed in the above referenced payroll has been paid as indicated on the payroll, an amount not less than the sum of the applicable basic hourly wage rate plus the amount of the required fringe benefits as listed in the contract, except as noted in Section 4(c) below.

(c) EXCEPTIONS

EXCEPTIONS (CRAFT)	
Remarks	

Name and Title	Signature
----------------	-----------

The wilful falsification of any of the above statements may subject the contractor or subcontractor to civil or criminal prosecution. See Section 1001 of title 18 and Section 231 of title 31 of the United States code.

Form WH-348 (1/68) Purchase this form directly from the Supt. Of Documents

**U.S. DEPARTMENT OF LABOR
WAGE AND HOUR DIVISION
INSTRUCTIONS FOR COMPLETING PAYROLL FORM, WH-347**

General: The use of the WH-347 payroll form is not mandatory. This form has been made available for the convenience of contractors and subcontractors required by their Federal or Federally-aided construction-type contracts and subcontracts to submit weekly payrolls. Properly filled out, this form will satisfy the requirements of Regulations, Parts 3 and 5 (29 CFR, Subtitle A), as to payrolls submitted in connection with contracts subject to the Davis-Bacon and related Acts.

This form meets needs resulting from the amendment of Davis-Bacon Act to include fringe benefits provisions. Under this amended law, the contractor is required to pay not less than fringe benefits as predetermined by the Department of Labor, in addition to payment of not less than the predetermined rates. The contractor's obligation to pay fringe benefits may be met either by payment of the fringes to the various plans, funds or programs or by making these payments to the employees as cash in lieu of fringes.

This payroll provides for the contractor's showing on the face of the payroll all monies to the employees, whether as basic rates or as cash in lieu of fringes and provides for the contractor's representation in the statement of compliance on the rear of the payroll that he is paying to other fringes required by the contract and not paid as cash in lieu of fringes. Detailed instructions concerning the preparation of the payroll follow:

Contractor or Subcontractor: Fill in your firm's name and check appropriate box.

Address: Fill in your firm's address.

Column 1 - Name, Address, and Social Security number of Employee: The employee's full name must be shown on each weekly payroll submitted. The employee's address must also be shown on the payroll covering the first week in which the employee works on the project. The address need not be shown on subsequent weekly payrolls unless his address changes. Although not required by Regulations, Parts 3 and 5, space is available in the name and address section so that Social Security numbers may be listed.

Column 2 - Withholding Exemptions: This column is merely inserted for the employer's convenience and is not a requirement of Regulations, Part 3 and 5.

Column 3 - Work Classifications: List classification descriptive of work actually performed by employees. Consult classification and minimum wage schedule set forth in contract specifications. If additional classifications are deemed necessary, see Contracting Officer or Agency representative. Employee may be shown as having worked in more than one classification provided accurate breakdown or hours so worked is maintained and shown on submitted payroll by use of separate entries.

Column 4 - Hours worked: On all contracts subject to the Contract Work Hours Standard Act enter as overtime hours worked in excess of 8 hours per day and 40 hours a week.

Column 5 - Total: Self-explanatory

Column 6 - Rate of Pay, including Fringe Benefits: In straight time box, list actual hourly rate paid the employee for straight time worked plus in cash in lieu of fringes paid the employee. When recording the straight time hourly rate, any cash paid in lieu of fringes may be shown separately from the basic rate, thus \$3.25/.40. This is of assistance in correctly computing overtime. See "Fringe Benefits" below. In overtime box shown overtime hourly rate paid, plus any cash in lieu of fringes paid the employee. See "Fringe Benefits" below. Payment of not less than time and one-half the basic or regular rate paid is required for overtime under the Contract Work Hours Standard Act of 1962. In addition to paying no less than the predetermined rate for the classification which the employee works, the contractor shall pay to approved plans, funds or programs or shall pay as cash in lieu of fringes amounts predetermined as fringe benefits in the wage decision made part of the contract. See "FRINGE BENEFITS" below.

FRINGE BENEFITS - Contractors who pay all required fringe benefits: A contractor who pays fringe benefits to approved plans, funds, or programs in amounts not less than were determined in the applicable wage decision of the Secretary of labor shall continue to show on the face of the payroll the basic cash hourly rate and overtime rate paid to his employees just as he has always done. Such a contractor shall check paragraph 4(a) of the statement on the reverse of the payroll to indicate that he is also paying to approved plans, funds or programs not less than the amount predetermined as fringe benefits for each craft. Any exceptions shall be noted in section 4(c).

Contractors who pay no fringe benefits: A contractor who pays no fringe benefits shall pay to the employee, and insert in the straight time hourly rate column of the payroll, an amount not less than the predetermined rate for each classification plus the amount of fringe benefits determined for each classification in the applicable wage decision. Inasmuch as it is not necessary to pay time and a half on cash paid in lieu of fringes, the overtime rate shall be not less than the sum of the basic predetermined rate, plus the half time premium on basic or regular rate, plus the required cash in lieu of fringes at the straight time rate. In addition, the contractor shall check paragraph 4(b) of the statement on the reverse of the payroll to indicate that he is paying fringe benefits in cash directly to his employees. Any exceptions shall be noted in Section 4(c).

Use of Section 4(c), Exceptions

Any contractor who is making payment to approved plans, funds, or programs in amounts less than the wage determination requires is obliged to pay the deficiency directly to the employees as cash in lieu of fringes. Any exceptions to Section 4(a) or 4(b), whichever the contractor may check, shall be entered in section 4(c). Enter in the Exception column the craft, and enter in the Explanation column the hourly amount paid the employee as cash in lieu of fringes and the hourly amount paid to plans, funds, or programs as fringes. The contractor shall pay, and shall show that he is paying to each such employee for all hours (unless otherwise provided by applicable determination) worked on Federal or Federally assisted project an amount not less than the predetermined rate plus cash in lieu of fringes as shown in Section 4(c). The rate paid and amount of cash paid in lieu of fringe benefits per hour should be entered in column 6 on the payroll. See paragraph on "Contractors who pay no fringe benefits" for computation of overtime rate.

Column 7 - Gross Amount Earned: Enter gross amount earned on this project. If part of the employees' weekly wage was earned on projects other than the project described on this payroll, enter in column 7 first the amount earned on the Federal or Federally assisted project and then the gross amount earned during the week on all projects, thus \$63.00/\$120.00.

Column 8 - Deductions: Five columns are provided for showing deductions made. If more than five deduction should be involved, use first 4 columns; show the balance deductions under "Other" column; show actual total under "Total Deductions" column: and in the attachment to the payroll describe the deduction contained in the "Other" column. All deductions must be in accordance with the provisions of the Copeland Act Regulations, 29 CFR, Part 3. If the employee worked on other jobs in addition to this project, show actual deductions from his weekly gross wage, but indicate that deductions are based on his gross wages.

Column 9 - Net Wages Paid for Week: Self-explanatory

Totals - Space has been left at the bottom of the columns so that totals may be shown if the contractor so desires.

Statement Required by Regulations, Parts 3 and 5: While this form need not be notarized, the statement on the back of the payroll is subject to the penalties provided by 18 USV 1001, namely, possible imprisonment of 5 years or \$10,000.00 fine or both. Accordingly, the party signing this statement should have knowledge of the facts represented as true.

Space has been provided between item (1) and (2) of the statement for describing any deductions made. If all deductions made are adequately described in the "Deductions" column above, state "See Deductions column in this payroll." See paragraph entitled "FRINGE BENEFITS" above for instructions concerning filling out paragraph 4 of the statement.

Persons are not required to respond to the collection of information unless it displays a currently valid OMB control number.

NAME OF CONTRACTOR OR SUBCONTRACTOR ADDRESS PROJECT OR CONTRACT NO.

OMB No. 1235-0008
Expires 09/30/2026

PAYROLL NO. PROJECT AND LOCATION

(1) NAME AND INDIVIDUAL IDENTIFYING NUMBER (e.g., LAST FOUR DIGITS OF SOCIAL SECURITY NUMBER) OF WORKER	(2) EXEMPTIONS OR DEDUCTIONS	(3) WORK CLASSIFICATION	(4) DAY AND DATE							(5) TOTAL HOURS	(6) RATE OF PAY	(7) GROSS AMOUNT EARNED	(8) DEDUCTIONS			(9) NET WAGES PAID FOR WEEK		
													FICA	WITH- HOLDING TAX	OTHER		TOTAL DEDUCTIONS	

While completion of Form WH-347 is optional, it is mandatory for covered contractors and subcontractors performing work on Federally financed or assisted construction contracts to respond to the information collection contained in 29 C.F.R. §§ 3.3, 5.5(a). The Copeland Act (40 U.S.C. § 3145) contractors and subcontractors performing work on Federally financed or assisted construction contracts to "furnish weekly a statement with respect to the wages paid each employee during the preceding week." U.S. Department of Labor (DOL) regulations at 29 C.F.R. § 5.5(a)(3)(ii) require contractors to submit weekly a copy of all payrolls to the Federal agency contracting for or financing the construction project, accompanied by a signed "Statement of Compliance" indicating that the payrolls are correct and complete and that each laborer or mechanic has been paid not less than the proper Davis-Bacon prevailing wage rate for the work performed. DOL and federal contracting agencies receiving this information review the information to determine that employees have received legally required wages and fringe benefits.

Public Burden Statement
We estimate that it will take an average of 55 minutes to complete this collection, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. If you have any comments regarding these estimates or any other aspect of this collection, including suggestions for reducing this burden, send them to the Administrator, Wage and Hour Division, U.S. Department of Labor, Room S3502, 200 Constitution Avenue, N.W. Washington, D.C. 20210

Date _____

I, _____ (Name of Signatory Party) _____ (Title)
do hereby state:

(1) That I pay or supervise the payment of the persons employed by _____ on the _____
(Contractor or Subcontractor) _____; that during the payroll period commencing on the _____
(Building or Work) _____ day of _____, _____ and ending the _____ day of _____,
all persons employed on said project have been paid the full weekly wages earned, that no rebates have
been or will be made either directly or indirectly to or on behalf of said

_____ from the full _____
(Contractor or Subcontractor)
weekly wages earned by any person and that no deductions have been made either directly or indirectly
from the full wages earned by any person, other than permissible deductions as defined in Regulations, Part
3 (29 C.F.R. Subtitle A), issued by the Secretary of Labor under the Copeland Act, as amended (48 Stat. 948,
63 Stat. 108, 72 Stat. 967; 76 Stat. 357; 40 U.S.C. § 3145), and described below:

(2) That any payrolls otherwise under this contract required to be submitted for the above period are
correct and complete; that the wage rates for laborers or mechanics contained therein are not less than the
applicable wage rates contained in any wage determination incorporated into the contract; that the classifications
set forth therein for each laborer or mechanic conform with the work he performed.

(3) That any apprentices employed in the above period are duly registered in a bona fide apprenticeship
program registered with a State apprenticeship agency recognized by the Bureau of Apprenticeship and
Training, United States Department of Labor, or if no such recognized agency exists in a State, are registered
with the Bureau of Apprenticeship and Training, United States Department of Labor.

(4) That:
(a) WHERE FRINGE BENEFITS ARE PAID TO APPROVED PLANS, FUNDS, OR PROGRAMS

- in addition to the basic hourly wage rates paid to each laborer or mechanic listed in
the above referenced payroll, payments of fringe benefits as listed in the contract
have been or will be made to appropriate programs for the benefit of such employees,
except as noted in section 4(c) below.

(b) WHERE FRINGE BENEFITS ARE PAID IN CASH

- Each laborer or mechanic listed in the above referenced payroll has been paid,
as indicated on the payroll, an amount not less than the sum of the applicable
basic hourly wage rate plus the amount of the required fringe benefits as listed
in the contract, except as noted in section 4(c) below.

(c) EXCEPTIONS

EXCEPTION (CRAFT)	EXPLANATION

REMARKS:

NAME AND TITLE SIGNATURE

THE WILLFUL FALSIFICATION OF ANY OF THE ABOVE STATEMENTS MAY SUBJECT THE CONTRACTOR OR
SUBCONTRACTOR TO CIVIL OR CRIMINAL PROSECUTION. SEE SECTION 1001 OF TITLE 18 AND SECTION 3729 OF
TITLE 31 OF THE UNITED STATES CODE.

INSTRUCTIONS FOR FILING MONTHLY EMPLOYMENT UTILIZATION REPORT (CC-257)

The Monthly Utilization Report is to be completed by each subject contractor (both prime and sub) and signed by a responsible official of the company. The reports are to be filed by the 5th day of each month during the term of the contract, and they shall include the total work-hours for each employee classification in each trade in the covered area for the monthly reporting period. The prime contractor shall submit a report for its aggregate work force and collect and submit reports for each subcontractor's aggregate work force to the Federal compliance agency that has Executive Order 11246 responsibility. (Additional copies of this form may be obtained from the U.S. Department of Labor, Employment Standards Administration, OFCCP's regional office for your area.)

Compliance Agency	U.S. Government agency assigned responsibility for equal employment opportunity. (Secure this information from the contracting officer.)
Federal Funding Agency	U.S. Government agency funding project (in whole or in part). If more than one agency list all.
Contractor	Any contractor who has a construction contract with the U.S. Government of a contract funded in whole or in part with Federal funds.
Minority	Includes Blacks, Hispanics, American Indians, Alaskan Natives, and Asian and Pacific Islanders - both men and women.
1. Covered Area	Geographic area identified in Notice required under 41 CFR 60-4.2.
2. Employer's identification Number	Federal Social Security Number used on Employer's Quarterly Federal Tax Return (U.S. Treasury Department Form 941).
3. Current Goals (Minority & Female)	See contract Notification.
4. Reporting Period	Monthly, or as directed by the compliance agency, beginning with the effective date of the contract.
5. Construction Trade	Only those construction crafts which contractor employees in the covered area.
6. Work-Hours of Employment (a-b)	a. The total number of male hours and the total number of female hours worked by employees in each classification. b-a. The total number of male hours and the total number of female hours worked by each specified group of minority employees in each classification.
Classification	The level of accomplishment or status of the worker in the trade (Journey Worker, Apprentice, Trainee)
7. Minority Percentage	The percentage of total minority work-hours of all work-hours (the sum of columns 6b, 6c, 6d, and 6e divided by column 6a; just one figure for each construction trade).
8. Female Percentage	For each trade the number reported in 6a. F divided by the sum of the numbers reported in 6a. M and F.
9. Total Number of Employees	Total number of male and total number of female employees working in each classification of each trade in the contractor's aggregate work force during reporting period.
10. Total Number of Minority Employees	Total number of male minority employees and total number of female minority employees working in each classification in each trade in the contractor's aggregate work force during reporting period.

Monthly Employment Utilization Report

U.S. Department of Labor

Employment Standards Administration
Office of Federal Contract Compliance Programs

OMB No. 1215-01633
Expires: 12/13/92

2. Employers I.D. No.

This report is required by Executive Order 11246, Sec. 203. Failure to report can result in contracts being cancelled, terminated or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts of federally assisted construction contracts.

3. Current Goals
Minority **6.9%**
Female _____

4. Reporting Period
From _____ To _____

5. Name and Location of Contractor _____

6. Federal Funding Agency _____

5. CONSTRUCTION TRADE	6a. Total All Employees By Trade	6b. Black (Not of Hispanic Origin)		6c. Hispanic		6d. Asian or Pacific Islander		6e. American Indian or Native American		7. Minority Percentage	8. Female Percentage	9. Total Number of Employees		10. Total Number of Minority Employees	
		M	F	M	F	M	F	M	F			M	F	M	F
Classifications															
Journey Worker															
Apprentice															
Trainee															
Sub-Total															
Journey Worker															
Apprentice															
Trainee															
Sub-Total															
Journey Worker															
Apprentice															
Trainee															
Sub-Total															
Journey Worker															
Apprentice															
Trainee															
Sub-Total															
Journey Worker															
Apprentice															
Trainee															
Sub-Total															
Total Journey Worker															
Total Apprentices															
Total Trainees															
Grand Total															

11. Company Official's Signature and Title _____

12. Telephone Number (Include area code) _____

13. Date Signed _____ Page _____ of _____

Application and Certificate for Payment

TO OWNER: PROJECT: _____ **APPLICATION NO:** _____ **Distribution to:**
PERIOD TO: _____ **OWNER**
FROM CONTRACTOR: VIA ARCHITECT: _____ **CONTRACT FOR:** ARCHITECT
CONTRACT DATE: _____ **CONTRACTOR**
PROJECT NOS: _____ / _____ / _____ **FIELD**
OTHER

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract. AIA Document G703®, Continuation Sheet, is attached.

1. ORIGINAL CONTRACT SUM \$ _____
 2. NET CHANGE BY CHANGE ORDERS \$ _____
 3. CONTRACT SUM TO DATE (Line 1 ± 2) \$ _____
 4. TOTAL COMPLETED & STORED TO DATE (Column G on G703) \$ _____
 5. RETAINAGE:
 - a. _____% of Completed Work
(Columns D + E on G703) \$ _____
 - b. _____% of Stored Material
(Column F on G703) \$ _____
- Total Retainage (Lines 5a + 5b, or Total in Column I of G703) \$ _____

6. TOTAL EARNED LESS RETAINAGE \$ _____
(Line 4 minus Line 5 Total)
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT \$ _____
(Line 6, from prior Certificate)
8. CURRENT PAYMENT DUE \$ _____
9. BALANCE TO FINISH, INCLUDING RETAINAGE
(Line 3 minus Line 6) \$ _____

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner	\$ _____	\$ _____
Total approved this month	\$ _____	\$ _____
TOTAL	\$ _____	\$ _____
NET CHANGES by Change Order	\$ _____	\$ _____

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: _____ Date: _____
 By: _____ State of: _____
 County of: _____
 Subscribed and sworn to before
 me this _____ day of _____
 Notary Public: _____
 My commission expires: _____

ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising this application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED \$ _____
 (Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)

ARCHITECT: _____ Date: _____
 By: _____
 This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.



AIA[®] Document G703[®] – 1992

Continuation Sheet

AIA Document G702[®]-1992, Application and Certificate for Payment, or G732[™]-2009, Application and Certificate for Payment, Construction Manager as Adviser Edition, containing Contractor’s signed certification is attached.

In tabulations below, amounts are in US dollars.

Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION NO:

APPLICATION DATE:

PERIOD TO:

ARCHITECT’S PROJECT NO:

A ITEM NO.	B DESCRIPTION OF WORK	C SCHEDULED VALUE	D WORK COMPLETED		E THIS PERIOD	F MATERIALS PRESENTLY STORED <i>(Not in D or E)</i>	G TOTAL COMPLETED AND STORED TO DATE <i>(D+E+F)</i>	H BALANCE TO FINISH <i>(G – G)</i>	I RETAINAGE <i>(If variable rate)</i>
			FROM PREVIOUS APPLICATION <i>(D + E)</i>						
	GRAND TOTAL								

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CONTRACTOR'S CERTIFICATION

Date

(Name)
Executive Director
(Housing Authority)
(Street Address)
(City, State, Zip Code)

Re: (Title of Project)
(Project Location)
(Project No.)

I hereby certify, to the best of my knowledge and belief, that:

- (1) The amounts requested are only for performance in accordance with the specifications, terms, and conditions of the Contract.
- (2) Payments to subcontractors and suppliers have been made from previous payments received under the Contract, and timely payments will be made from the process of the payment covered by this certification; in accordance with subcontractor agreements; and,
- (3) This request for progress payments does not include any amounts which the Prime Contractor intends to withhold or retain from a subcontractor or supplier in accordance with the terms and conditions of the subcontract.

Company

Name

Title

Date

AFFIDAVIT AND WAIVER OF LIEN

_____ FINAL _____ PARTIAL

STATE OF _____ }
 } SS:
COUNTY OF _____ }

_____ being duly sworn states that he is the _____ of
_____ having contracted with _____
_____ to furnish _____ for a project known
as _____, located at _____,
owned by _____ and does further state:

Partial Waiver: That the balance due from the Owner is the sum of _____
_____ dollars (\$ _____)

_____ Receipt of which is hereby acknowledged.

Final Waiver: That the final balance due from the Owner is the sum of _____
_____ dollars (\$ _____)

_____ Receipt of which is hereby acknowledged.

Therefore, the undersigned waives and releases unto the Owner of said premises any and all lien or claim whatsoever on the above-described property and improvements thereon on account of labor and material or both, furnished by the undersigned thereto, and further certifies that no other party has any claim or right to a lien on account of any work performed or material furnished to the undersigned for said project, and within the scope of this affidavit and waiver.

COMPANY NAME

Signature

Title

ACKNOWLEDGMENT

STATE OF _____)
) SS:
COUNTY OF _____)

Before me, a Notary Public, personally appeared the above-named and swore that the statements contained in the foregoing document are true and correct.

Subscribed and sworn to me this _____ day of _____, 20_____

Notary Public Signature

My Commission Expires: _____

AFFIDAVIT OF COMPLETION

I, (name) , President of (company name) , certify that all work has been completed in accordance with the terms and Contract Documents for the (type of work as stated in Contract) at (address) by (company name) and further state that, to the best of my knowledge and belief, all claims for materials, labor and equipment, or any work performed by subcontractors, have been fully paid.

(signature)

 (name and title)
 (name of company)

ACKNOWLEDGMENT

STATE OF _____)
) SS:
 COUNTY OF _____)

Before me, a Notary Public, personally appeared the above-named and swore that the statements contained in the foregoing document are true and correct.

Subscribed and sworn to me this _____ day of _____, 20____

 Notary Public Signature

My Commission Expires: _____

CONTRACTOR'S CERTIFICATE OF GUARANTEE

Date

(Name)
Executive Director
(Housing Authority)
(Street Address)
(City, State, Zip Code)

Re: (Title of Project)
(Project Location)
(Project No.)

Dear

In accordance with the Contract Documents for the above-referenced project, we as the General Contractor do herein guarantee the following:

1. All materials, equipment and workmanship are as specified and/or shown on the drawings or as amended by change orders, field orders or contract modifications.
2. If in the course of one year (or other extended time as specified) from the date of substantial completion, the materials, equipment or workmanship fails to perform in a satisfactory manner, we will correct, repair or replace said materials, equipment or workmanship to perform in a satisfactory manner.
3. Notifications to correct, repair or replace shall be from the Owner, in writing to the Contractor.
4. Failure to take appropriate action within seven (7) days after written notification shall be automatic authorization for the Owner to have the corrections made at the expense of the undersigned.

ATTEST: _____
(Signature of an officer of the Contractor)

(Type name and title of signatory)

(Type name of company)

State of: _____, County of: _____

ACKNOWLEDGMENT

STATE OF _____)
) SS:
COUNTY OF _____)

Before me, a Notary Public, personally appeared the above-named and swore that the statements contained in the foregoing document are true and correct.

Subscribed and sworn to me this _____ day of _____, 20_____

Notary Public Signature

My Commission Expires: _____

LETTER OF RELEASE

Date

(Name)
Executive Director
(Housing Authority)
(Street Address)
(City, State, Zip Code)

Re: (Title of Project)
(Project Location)
(Project No.)

Dear

As per HUD requirements (7460.8, Rev.-1 1/93) we hereby release and certify to the following:

1. The work has been completed in accordance with the Contract Documents (drawings and specifications) including all modifications, field orders and change orders.
2. The total and final amount of the Construction Contract is \$_____ (original Contract plus all change orders).
3. The final payment that is due under this Contract is \$_____, and there are no separately stated amounts of any unpaid bills or unsettled claims against the Public Housing Authority or its agents.
4. The Public Housing Authority is herein released of all claims except the final payment.
5. Wages paid to laborers and mechanics were consistent with the wage rate requirements of the Contract and there are no outstanding claims for unpaid wages.

ATTEST: _____
(Signature of an officer of the Contractor)

(Type name and title of signatory)

(Type name of company)

State of _____, County of _____

ACKNOWLEDGMENT

STATE OF _____)
) SS:
COUNTY OF _____)

Before me, a Notary Public, personally appeared the above-named and swore that the statements contained in the foregoing document are true and correct.

Subscribed and sworn to me this _____ day of _____, 20____

Notary Public Signature

My Commission Expires: _____



AIA[®] Document G707[™] – 1994

Consent of Surety to Final Payment

PROJECT: *(Name and address)*

ARCHITECT'S PROJECT NUMBER:

OWNER

CONTRACT FOR:

ARCHITECT

CONTRACTOR

TO OWNER: *(Name and address)*

CONTRACT DATED:

SURETY

OTHER

In accordance with the provisions of the Contract between the Owner and the Contractor as indicated above, the
(Insert name and address of Surety)

on bond of
(Insert name and address of Contractor)

, SURETY,

hereby approves of the final payment to the Contractor, and agrees that final payment to the Contractor shall not relieve
the Surety of any of its obligations to
(Insert name and address of Owner)

, CONTRACTOR,

as set forth in said Surety's bond.

, OWNER,

IN WITNESS WHEREOF, the Surety has hereunto set its hand on this date:
(Insert in writing the month followed by the numeric date and year.)

(Surety)

(Signature of authorized representative)

Attest:
(Seal)

(Printed name and title)

CAUTION: You should sign an original AIA Contract Document, on which this text appears in RED. An original assures that changes will not be obscured.

FORM OF CONTRACTOR'S CERTIFICATE AND RELEASE

FROM: _____ (name of contractor)

TO: _____ (name of owner)

REFERENCE: CONTRACT NO. _____ ENTERED INTO THE _____ DAY _____

OF _____, 20____, _____ BETWEEN THE _____

(name of Owner)

OF _____ (city) _____ (state) _____,

HEREINAFTER CALLED THE PHA _____,

AND _____ (name of Contractor) _____

OF _____ (city) _____ (state) _____

HEREINAFTER CALLED THE CONTRACTOR,

FOR THE _____ (type of construction) _____

OF _____ (name of project), PROJECT NO. _____,

LOCATED IN _____ (city) _____ (state) _____.

KNOW ALL MEN BY THESE PRESENTS:

1. The undersigned hereby certifies that there is due and payable under the Contract and duly approved Change Orders and modifications the undisputed balance of \$_____.

2. The undersigned further certifies that, in addition to the amount set forth in paragraph 1 hereof, there are outstanding and unsettled the following items which he claims are just and due and owing by the PHA to the Contractor:

(a) _____

(b) _____

(c) _____

(Itemized claims and amounts claimed. If none, so state.)

3. The undersigned further certifies that all work required under this Contract including work required under Change Order numbered _____ has been performed in accordance with the terms thereof, and that there are no claims of laborers or mechanics for unpaid wages arising out of the performance of this Contract, and that the wage rates paid by the Contractor and all subcontractors were in conformity with the Contract provisions relating to said wage rates.

4. The undersigned further certifies that all subcontractors and material suppliers (of whatever tier) have been fully paid and that they have no claims under the Contract, except:

Name

Amount

- (a)
(b)
(c)

5. Except for the amount stated in paragraphs 1 and 2 hereof, the undersigned has received from the PHA all sums of money payable to the undersigned under or pursuant to the aforementioned Contract or any change or modification hereof.

6. That in consideration of the payment of the amount stated in paragraph 1 hereof, the undersigned does hereby release the PHA from any and all claims arising under or by virtue of this Contract except the amounts listed in paragraph 2 hereof; provided, however, that if for any reason the PHA does not pay in full the amount stated in paragraph 1 hereof, said deduction shall not affect the validity of this release, but the amount so deducted shall be automatically included under paragraph 2 as an amount which the Contractor has not released but will release upon payment thereof. The Contractor further certifies that, upon payment of the amounts listed in paragraph 2 hereof, and of any amount which may be deducted from paragraph 2 hereof, he will release the PHA from any and all claims of any nature whatsoever arising out of said Contract or modification thereof, and will execute such further releases of assurances as the PHA may request.

IN WITNESS WHEREOF, the undersigned has signed and sealed this instrument this _____ day of _____, 20____.

Name of Contractor (SEAL)

Signature and Title of Officer

_____, being first duly sworn on oath, deposes and says, first, that he is
(Affiant)

the _____ of the _____, and second, that he has read
(Title) (Name of Contractor)

the foregoing Certificate and Release by him subscribed as _____ of the
(Title)

(Name of Contractor)

**SECTION 00 70 00
GENERAL CONDITIONS**

THE GENERAL CONDITIONS FOR CONSTRUCTION CONTRACTS - PUBLIC HOUSING PROGRAMS, HUD-5370 (1/2014), ARE HEREBY MADE A PART OF THE CONTRACT DOCUMENTS, EXCEPT AS THEY MAY BE MODIFIED BY SECTION 00 80 00 SUPPLEMENTARY GENERAL CONDITIONS AND THE SPECIFIC PROVISIONS OF THESE DOCUMENTS

REFER TO INSERT:

HUD-5370 (1/2014), PAGES 1-19

END OF SECTION

General Conditions for Construction Contracts - Public Housing Programs

U.S. Department of Housing and Urban
Development
Office of Public and Indian Housing
OMB Approval No. 2577-0157 (exp. 1/31/2027)

**Applicability. This form is applicable to any
construction/development contract greater than \$250,000.**

Public reporting burden for this collection of information is estimated to average 1.0 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Comments regarding the accuracy of this burden estimate and any suggestions for reducing this burden can be sent to the Reports Management Officer, Office of Policy Development and Research, REE, Department of Housing and Urban Development, 451 7th St SW, Room 4176, Washington, DC 20410-5000. When providing comments, please refer to OMB Approval No. 2577-0157. This form includes those clauses required by OMB's common rule on grantee procurement, implemented at HUD in 2 CFR 200, and those requirements set forth in Section 3 of the Housing and Urban Development Act of 1968 and its amendment by the Housing and Community Development Act of 1992, implemented by HUD at 24 CFR Part 75. The form is required for construction contracts awarded by Public Housing Agencies (PHAs). The form is used by Housing Authorities in solicitations to provide necessary contract clauses. If the form were not used, PHAs would be unable to enforce their contracts. Responses to the collection of information are required to obtain a benefit or to retain a benefit. The information requested does not lend itself to confidentiality. HUD may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB number.

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1. Definitions

- (a) "Architect" means the person or other entity engaged by the PHA to perform architectural, engineering, design, and other services related to the work as provided for in the contract. When a PHA uses an engineer to act in this capacity, the terms "architect" and "engineer" shall be synonymous. The Architect shall serve as a technical representative of the Contracting Officer. The Architect's authority is as set forth elsewhere in this contract.
- (b) "Contract" means the contract entered into between the PHA and the Contractor. It includes the forms of Bid, the Bid Bond, the Performance and Payment Bond or Bonds or other assurance of completion, the Certifications, Representations, and Other Statements of Bidders (form HUD-5370), these General Conditions of the Contract for Construction (form HUD-5370), the applicable wage rate determinations from the U.S. Department of Labor, any special conditions included elsewhere in the contract, the specifications, and drawings. It includes all formal changes to any of those documents by addendum, change order, or other modification.
- (c) "Contracting Officer" means the person delegated the authority by the PHA to enter into, administer, and/or terminate this contract and designated as such in writing to the Contractor. The term includes any successor Contracting Officer and any duly authorized representative of the Contracting Officer also designated in writing. The Contracting Officer shall be deemed the authorized agent of the PHA in all dealings with the Contractor.
- (d) "Contractor" means the person or other entity entering into the contract with the PHA to perform all of the work required under the contract.
- (e) "Drawings" means the drawings enumerated in the schedule of drawings contained in the Specifications and as described in the contract clause entitled Specifications and Drawings for Construction herein.
- (f) "HUD" means the United States of America acting through the Department of Housing and Urban Development including the Secretary, or any other person designated to act on its behalf. HUD has agreed, subject to the provisions of an Annual Contributions Terms and Conditions (ACC), to provide financial assistance to the PHA, which includes assistance in financing the work to be performed under this contract. As defined elsewhere in these General Conditions or the contract documents, the determination of HUD may be required to authorize changes in the work or for release of funds to the PHA for payment to the Contractor. Notwithstanding HUD's role, nothing in this contract shall be construed to create any contractual relationship between the Contractor and HUD.
- (g) "Project" means the entire project, whether construction or rehabilitation, the work for which is provided for in whole or in part under this contract.
- (h) "PHA" means the Public Housing Agency organized under applicable state laws which is a party to this contract.
- (j) "Specifications" means the written description of the technical requirements for construction and includes the criteria and tests for determining whether the requirements are met.
- (l) "Work" means materials, workmanship, and manufacture and fabrication of components.

2. Contractor's Responsibility for Work

- (a) The Contractor shall furnish all necessary labor, materials, tools, equipment, and transportation necessary for performance of the work. The Contractor shall also furnish all necessary water, heat, light, and power not made available to the Contractor by the PHA pursuant to the clause entitled Availability and Use of Utility Services herein.
- (b) The Contractor shall perform on the site, and with its own organization, work equivalent to at least [] (12 percent unless otherwise indicated) of the total amount of work to be performed under the order. This percentage may be reduced by a supplemental agreement to this order if, during performing the work, the Contractor requests a reduction and the Contracting Officer determines that the reduction would be to the advantage of the PHA.
- (c) At all times during performance of this contract and until the work is completed and accepted, the Contractor shall directly superintend the work or assign and have on the work site a competent superintendent who is satisfactory to the Contracting Officer and has authority to act for the Contractor.
- (d) The Contractor shall be responsible for all damages to persons or property that occur as a result of the Contractor's fault or negligence, and shall take proper safety and health precautions to protect the work, the workers, the public, and the property of others. The Contractor shall hold and save the PHA, its officers and agents, free and harmless from liability of any nature occasioned by the Contractor's performance. The Contractor shall also be responsible for all materials delivered and work performed until completion and acceptance of the entire work, except for any completed unit of work which may have been accepted under the contract.
- (e) The Contractor shall lay out the work from base lines and bench marks indicated on the drawings and be responsible for all lines, levels, and measurements of all work executed under the contract. The Contractor shall verify the figures before laying out the work and will be held responsible for any error resulting from its failure to do so.
- (f) The Contractor shall confine all operations (including storage of materials) on PHA premises to areas authorized or approved by the Contracting Officer.
- (g) The Contractor shall at all times keep the work area, including storage areas, free from accumulations of waste materials. After completing the work and before final inspection, the Contractor shall (1) remove from the premises all scaffolding, equipment, tools, and materials (including rejected materials) that are not the property of the PHA and all rubbish caused by its work; (2) leave the work area in a clean, neat, and orderly condition satisfactory to the Contracting Officer; (3) perform all specified tests; and, (4) deliver the installation in complete and operating condition.
- (h) The Contractor's responsibility will terminate when all work has been completed, the final inspection made, and the work accepted by the Contracting Officer. The Contractor will then be released from further obligation except as required by the warranties specified elsewhere in the contract.

3. Architect's Duties, Responsibilities, and Authority

- (a) The Architect for this contract, and any successor, shall be designated in writing by the Contracting Officer.

- (b) The Architect shall serve as the Contracting Officer's technical representative with respect to architectural, **Schedule** engineering, and design matters related to the work performed under the contract. The Architect may provide direction on contract performance. Such direction shall be within the scope of the contract and may not be of a nature which: (1) institutes additional work outside the scope of the contract; (2) constitutes a change as defined in the Changes clause herein; (3) causes an increase or decrease in the cost of the contract; (4) alters the Construction Progress Schedule; or (5) changes any of the other express terms or conditions of the contract.
- (c) The Architect's duties and responsibilities may include but shall not be limited to:
- (1) Making periodic visits to the work site, and on the basis of his/her on-site inspections, issuing written reports to the PHA which shall include all observed deficiencies. The Architect shall file a copy of the report with the Contractor's designated representative at the site;
 - (2) Making modifications in drawings and technical specifications and assisting the Contracting Officer in the preparation of change orders and other contract modifications for issuance by the Contracting Officer;
 - (3) Reviewing and making recommendations with respect to - (i) the Contractor's construction progress schedules; (ii) the Contractor's shop and detailed drawings; (iii) the machinery, mechanical and other equipment and materials or other articles proposed for use by the Contractor; and, (iv) the Contractor's price breakdown and progress payment estimates; and,
 - (4) Assisting in inspections, signing Certificates of Completion, and making recommendations with respect to acceptance of work completed under the contract.

4. Other Contracts

The PHA may undertake or award other contracts for additional work at or near the site of the work under this contract. The Contractor shall fully cooperate with the other contractors and with PHA employees and shall carefully adapt scheduling and performing the work under this contract to accommodate the additional work, heeding any direction that may be provided by the Contracting Officer. The Contractor shall not commit or permit any act that will interfere with the performance of work by any other contractor or by PHA employees

Construction Requirements

5. Pre-construction Conference and Notice to Proceed

of the work, and that it has investigated and satisfied itself

- (a) Within ten calendar days of contract execution, and prior to the commencement of work, the Contractor shall attend a preconstruction conference with representatives of the PHA, its Architect, and other interested parties convened by the PHA. The conference will serve to acquaint the participants with the general plan of the construction operation and all other requirements of the contract. The PHA will provide the Contractor with the date, time, and place of the conference.
- (b) The contractor shall begin work upon receipt of a written Notice to Proceed from the Contracting Officer or designee. The Contractor shall not begin work prior to receiving such notice.

6. Construction Progress

- (a) The Contractor shall, within five days after the work commences on the contract or another period of time determined by the Contracting Officer, prepare and submit to the Contracting Officer for approval three copies of a practicable schedule showing the order in which the Contractor proposes to perform the work, and the dates on which the Contractor contemplates starting and completing the several salient features of the work (including acquiring labor, materials, and equipment). The schedule shall be in the form of a progress chart of suitable scale to indicate appropriately the percentage of work scheduled for completion by any given date during the period. If the Contractor fails to submit a schedule within the time prescribed, the Contracting Officer may withhold approval of progress payments or take other remedies under the contract until the Contractor submits the required schedule.
- (b) The Contractor shall enter the actual progress on the chart as required by the Contracting Officer, and immediately deliver three copies of the annotated schedule to the Contracting Officer. If the Contracting Officer determines, upon the basis of inspection conducted pursuant to the clause entitled Inspection and Acceptance of Construction, herein that the Contractor is not meeting the approved schedule, the Contractor shall take steps necessary to improve its progress, including those that may be required by the Contracting Officer, without additional cost to the PHA. In this circumstance, the Contracting Officer may require the Contractor to increase the number of shifts, overtime operations, days of work, and/or the amount of construction plant, and to submit for approval any supplementary schedule or schedules in chart form as the Contracting Officer deems necessary to demonstrate how the approved rate of progress will be regained.
- (c) Failure of the Contractor to comply with the requirements of the Contracting Officer under this clause shall be grounds for a determination by the Contracting Officer that the Contractor is not prosecuting the work with sufficient diligence to ensure completion within the time specified in the Contract. Upon making this determination, the Contracting Officer may terminate the Contractor's right to proceed with the work, or any separable part of it, in accordance with the Default clause of this contract.

7. Site Investigation and Conditions Affecting the Work

- (a) The Contractor acknowledges that it has taken steps reasonably necessary to ascertain the nature and location as to the general and local conditions which can affect the work or its cost, including but not limited to, (1) conditions bearing upon transportation, disposal, handling, and storage of materials; (2) the availability of labor, water, electric power, and roads; (3) uncertainties of weather, river stages, tides, or similar physical conditions at the site; (4) the conformation and conditions of the ground; and (5) the character of equipment and facilities needed preliminary to and during work performance. The Contractor also acknowledges that it has satisfied itself as to the character, quality, and quantity of surface and subsurface materials or obstacles to be encountered insofar as this information is

reasonably ascertainable from an inspection of the site, including all exploratory work done by the PHA, as well as from the drawings and specifications made a part of this contract. Any failure of the Contractor to take the actions described and acknowledged in this paragraph will not relieve the Contractor from responsibility for estimating properly the difficulty and cost of successfully performing the work, or for proceeding to successfully perform the work without additional expense to the PHA.

- (b) The PHA assumes no responsibility for any conclusions or interpretations made by the Contractor based on the information made available by the PHA. Nor does the PHA assume responsibility for any understanding reached or representation made concerning conditions which can affect the work by any of its officers or agents before the execution of this contract, unless that understanding or representation is expressly stated in this contract.

8. Differing Site Conditions

(a) The Contractor shall promptly, and before the conditions are disturbed, give a written notice to the Contracting Officer of (1) subsurface or latent physical conditions at the site which differ materially from those indicated in this contract, or (2) unknown physical conditions at the site(s), of an unusual nature, which differ materially from those ordinarily encountered and generally recognized as inhering in work of the character provided for in the contract.

(b) The Contracting Officer shall investigate the site conditions promptly after receiving the notice. Work shall not proceed at the affected site, except at the

Contractor's risk, until the Contracting Officer has provided written instructions to the Contractor. If the conditions do materially so differ and cause an increase or decrease in the Contractor's cost of, or the time required for, performing any part of the work under this contract, whether or not changed as a result of the conditions, the Contractor shall file a claim in writing to the PHA within ten days after receipt of such instructions and, in any event, before proceeding with the work. An equitable adjustment in the contract price, the delivery schedule, or both shall be made under this clause and the contract modified in writing accordingly.

(c) No request by the Contractor for an equitable adjustment to the contract under this clause shall be allowed, unless the Contractor has given the written notice required; provided, that the time prescribed in (a) above for giving written notice may be extended by the Contracting Officer.

(d) No request by the Contractor for an equitable adjustment to the contract for differing site conditions shall be allowed if made after final payment under this contract.

9. Specifications and Drawings for Construction

(a) The Contractor shall keep on the work site a copy of the drawings and specifications and shall at all times give the Contracting Officer access thereto. Anything mentioned in the specifications and not shown on the drawings, or shown on the drawings and not mentioned in the specifications, shall be of like effect as if shown or mentioned in both. In case of difference between drawings and specifications, the specifications shall govern. In case of discrepancy in the figures, in the drawings, or in the specifications, the matter shall be

promptly submitted to the Contracting Officer, who shall promptly make a determination in writing. Any adjustment by the Contractor without such a determination shall be at its own risk and expense. The Contracting Officer shall furnish from time to time such detailed drawings and other information as considered necessary, unless otherwise provided.

(b) Wherever in the specifications or upon the drawings the words "directed", "required", "ordered", "designated", "prescribed", or words of like import are used, it shall be understood that the "direction", "requirement", "order", "designation", or "prescription", of the Contracting Officer is intended and similarly the words "approved", "acceptable", "satisfactory", or words of like import shall mean "approved by", or "acceptable to", or "satisfactory to" the Contracting Officer, unless otherwise expressly stated.

(c) Where "as shown" "as indicated", "as detailed", or words of similar import are used, it shall be understood that the reference is made to the drawings accompanying this contract unless stated otherwise. The word "provided" as used herein shall be understood to mean "provide complete in place" that is "furnished and installed".

(d) "Shop drawings" means drawings, submitted to the PHA by the Contractor, subcontractor, or any lower tier subcontractor, showing in detail (1) the proposed fabrication and assembly of structural elements and (2) the installation (i.e., form, fit, and attachment details) of materials of equipment. It includes drawings, diagrams, layouts, schematics, descriptive literature, illustrations, schedules, performance and test data, and similar materials furnished by the Contractor to explain in detail specific portions of the work required by the contract. The PHA may duplicate, use, and disclose in any manner and for any purpose shop drawings delivered under this contract.

(e) If this contract requires shop drawings, the Contractor shall coordinate all such drawings, and review them for accuracy, completeness, and compliance with other contract requirements and shall indicate its approval thereon as evidence of such coordination and review. Shop drawings submitted to the Contracting Officer without evidence of the Contractor's approval may be returned for resubmission. The Contracting Officer will indicate an approval or disapproval of the shop drawings and if not approved as submitted shall indicate the PHA's reasons therefore. Any work done before such approval shall be at the Contractor's risk. Approval by the Contracting Officer shall not relieve the Contractor from responsibility for any errors or omissions in such drawings, nor from responsibility for complying with the requirements of this contract, except with respect to variations described and approved in accordance with (f) below.

(f) If shop drawings show variations from the contract requirements, the Contractor shall describe such variations in writing, separate from the drawings, at the time of submission. If the Architect approves any such variation and the Contracting Officer concurs, the Contracting Officer shall issue an appropriate modification to the contract, except that, if the variation is minor or does not involve a change in price or in time of performance, a modification need not be issued.

(g) It shall be the responsibility of the Contractor to make timely requests of the PHA for such large scale and full size drawings, color schemes, and other additional information, not already in his possession, which shall be

required in the planning and production of the work. Such requests may be submitted as the need arises, but each such request shall be filed in ample time to permit appropriate action to be taken by all parties involved so as to avoid delay.

- (h) The Contractor shall submit to the Contracting Officer for approval four copies (unless otherwise indicated) of all shop drawings as called for under the various headings of these specifications. Three sets (unless otherwise indicated) of all shop drawings, will be retained by the PHA and one set will be returned to the Contractor. As required by the Contracting Officer, the Contractor, upon completing the work under this contract, shall furnish a complete set of all shop drawings as finally approved. These drawings shall show all changes and revisions made up to the time the work is completed and accepted.
- (i) This clause shall be included in all subcontracts at any tier. It shall be the responsibility of the Contractor to ensure that all shop drawings prepared by subcontractors are submitted to the Contracting Officer.

10. As-Built Drawings

- (a) "As-built drawings," as used in this clause, means drawings submitted by the Contractor or subcontractor at any tier to show the construction of a particular structure or work as actually completed under the contract. "As-built drawings" shall be synonymous with "Record drawings."
- (b) As required by the Contracting Officer, the Contractor shall provide the Contracting Officer accurate information to be used in the preparation of permanent as-built drawings. For this purpose, the Contractor shall record on one set of contract drawings all changes from the installations originally indicated, and record final locations of underground lines by depth from finish grade and by accurate horizontal offset distances to permanent surface improvements such as buildings, curbs, or edges of walks.
- (c) This clause shall be included in all subcontracts at any tier. It shall be the responsibility of the Contractor to ensure that all as-built drawings prepared by subcontractors are submitted to the Contracting Officer.

11. Material and Workmanship

- (a) All equipment, material, and articles furnished under this contract shall be new and of the most suitable grade for the purpose intended, unless otherwise specifically provided in this contract. References in the contract to equipment, material, articles, or patented processes by trade name, make, or catalog number, shall be regarded as establishing a standard of quality and shall not be construed as limiting competition. The Contractor may, at its option, use any equipment, material, article, or process that, in the judgment of, and as approved by the Contracting Officer, is equal to that named in the specifications, unless otherwise specifically provided in this contract.
- (b) Approval of equipment and materials.
- (1) The Contractor shall obtain the Contracting Officer's approval of the machinery and mechanical and other equipment to be incorporated into the work. When requesting approval, the Contractor shall furnish to the Contracting Officer the name of the manufacturer, the model number, and other information concerning the performance, capacity, nature, and rating of the

machinery and mechanical and other equipment. When required by this contract or by the Contracting Officer, the Contractor shall also obtain the Contracting Officer's approval of the material or articles which the Contractor contemplates incorporating into the work. When requesting approval, the Contractor shall provide full information concerning the material or articles. Machinery, equipment, material, and articles that do not have the required approval shall be installed or used at the risk of subsequent rejection.

- (2) When required by the specifications or the Contracting Officer, the Contractor shall submit appropriately marked samples (and certificates related to them) for approval at the Contractor's expense, with all shipping charges prepaid. The Contractor shall label, or otherwise properly mark on the container, the material or product represented, its place of origin, the name of the producer, the Contractor's name, and the identification of the construction project for which the material or product is intended to be used.
- (3) Certificates shall be submitted in triplicate, describing each sample submitted for approval and certifying that the material, equipment or accessory complies with contract requirements. The certificates shall include the name and brand of the product, name of manufacturer, and the location where produced.
- (4) Approval of a sample shall not constitute a waiver of the PHA right to demand full compliance with contract requirements. Materials, equipment and accessories may be rejected for cause even though samples have been approved.
- (5) Wherever materials are required to comply with recognized standards or specifications, such specifications shall be accepted as establishing the technical qualities and testing methods, but shall not govern the number of tests required to be made nor modify other contract requirements. The Contracting Officer may require laboratory test reports on items submitted for approval or may approve materials on the basis of data submitted in certificates with samples. Check tests will be made on materials delivered for use only as frequently as the Contracting Officer determines necessary to insure compliance of materials with the specifications. The Contractor will assume all costs of retesting materials which fail to meet contract requirements and/or testing materials offered in substitution for those found deficient.
- (6) After approval, samples will be kept in the Project office until completion of work. They may be built into the work after a substantial quantity of the materials they represent has been built in and accepted.
- (c) Requirements concerning lead-based paint. The Contractor shall comply with the requirements concerning lead-based paint contained in the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. 4821-4846) as implemented by 24 CFR Part 35.

12. Permits and Codes

- (a) The Contractor shall give all notices and comply with all applicable laws, ordinances, codes, rules and regulations. Notwithstanding the requirement of the Contractor to comply with the drawings and specifications in the contract, all work installed shall comply with all applicable codes and regulations as amended by any

waivers. Before installing the work, the Contractor shall examine the drawings and the specifications for compliance with applicable codes and regulations bearing on the work and shall immediately report any discrepancy it may discover to the Contracting Officer.

Where the requirements of the drawings and specifications fail to comply with the applicable code or regulation, the Contracting Officer shall modify the contract by change order pursuant to the clause entitled Changes herein to conform to the code or regulation.

- (b) The Contractor shall secure and pay for all permits, fees, and licenses necessary for the proper execution and completion of the work. Where the PHA can arrange for the issuance of all or part of these permits, fees and licenses, without cost to the Contractor, the contract amount shall be reduced accordingly.

13. Health, Safety, and Accident Prevention

(a) In performing this contract, the Contractor shall:

- (1) Ensure that no laborer or mechanic shall be required to work in surroundings or under working conditions which are unsanitary, hazardous, or dangerous to his/her health and/or safety as determined under construction safety and health standards promulgated by the Secretary of Labor by regulation;
- (2) Protect the lives, health, and safety of other persons;
- (3) Prevent damage to property, materials, supplies, and equipment; and,
- (4) Avoid work interruptions.

(b) For these purposes, the Contractor shall:

- (1) Comply with regulations and standards issued by the Secretary of Labor at 29 CFR Part 1926. Failure to comply may result in imposition of sanctions pursuant to the Contract Work Hours and Safety Standards Act (Public Law 91-54, 83 Stat. 96), 40 U.S.C. 3701 et seq.; and
- (2) Include the terms of this clause in every subcontract so that such terms will be binding on each subcontractor.

(c) The Contractor shall maintain an accurate record of exposure data on all accidents incident to work performed under this contract resulting in death, traumatic injury, occupational disease, or damage to property, materials, supplies, or equipment, and shall report this data in the manner prescribed by 29 CFR Part 1904.

(d) The Contracting Officer shall notify the Contractor of any noncompliance with these requirements and of the corrective action required. This notice, when delivered to the Contractor or the Contractor's representative at the site of the work, shall be deemed sufficient notice of the noncompliance and corrective action required. After receiving the notice, the Contractor shall immediately take corrective action. If the Contractor fails or refuses to take corrective action promptly, the Contracting Officer may issue an order stopping all or part of the work until satisfactory corrective action has been taken. The Contractor shall not base any claim or request for equitable adjustment for additional time or money on any stop order issued under these circumstances.

(e) The Contractor shall be responsible for its subcontractors' compliance with the provisions of this clause. The Contractor shall take such action with respect to any subcontract as the PHA, the Secretary of Housing and Urban Development, or the Secretary of Labor shall direct as a means of enforcing such provisions.

14. Temporary Heating

The Contractor shall provide and pay for temporary heating, covering, and enclosures necessary to properly protect all work and materials against damage by dampness and cold, to dry out the work, and to facilitate the completion of the work. Any permanent heating equipment used shall be turned over to the PHA in the condition and at the time required by the specifications.

15. Availability and Use of Utility Services

(a) The PHA shall make all reasonably required amounts of utilities available to the Contractor from existing outlets and supplies, as specified in the contract. Unless otherwise provided in the contract, the amount of each utility service consumed shall be charged to or paid for by the Contractor at prevailing rates charged to the PHA or, where the utility is produced by the PHA, at reasonable rates determined by the Contracting Officer. The Contractor shall carefully conserve any utilities furnished without charge.

(b) The Contractor, at its expense and in a manner satisfactory to the Contracting Officer, shall install and maintain all necessary temporary connections and distribution lines, and all meters required to measure the amount of each utility used for the purpose of determining charges. Before final acceptance of the work by the PHA, the Contractor shall remove all the temporary connections, distribution lines, meters, and associated paraphernalia.

16. Protection of Existing Vegetation, Structures, Equipment, Utilities, and Improvements

(a) The Contractor shall preserve and protect all structures, equipment, and vegetation (such as trees, shrubs, and grass) on or adjacent to the work site, which are not to be removed under this contract, and which do not unreasonably interfere with the work required under this contract.

(b) The Contractor shall only remove trees when specifically authorized to do so, and shall avoid damaging vegetation that will remain in place. If any limbs or branches of trees are broken during performance of this contract, or by the careless operation of equipment, or by workmen, the Contractor shall trim those limbs or branches with a clean cut and paint the cut with a tree-pruning compound as directed by the Contracting Officer.

(c) The Contractor shall protect from damage all existing improvements and utilities (1) at or near the work site and (2) on adjacent property of a third party, the locations of which are made known to or should be known by the Contractor. Prior to disturbing the ground at the construction site, the Contractor shall ensure that all underground utility lines are clearly marked.

(d) The Contractor shall shore up, brace, underpin, secure, and protect as necessary all foundations and other parts of existing structures adjacent to, adjoining, and in the vicinity of the site, which may be affected by the excavations or other operations connected with the construction of the project.

(e) Any equipment temporarily removed as a result of work under this contract shall be protected, cleaned, and replaced in the same condition as at the time of award of this contract.

- (f) New work which connects to existing work shall correspond in all respects with that to which it connects and/or be similar to existing work unless otherwise required by the specifications.
- (g) No structural members shall be altered or in any way weakened without the written authorization of the Contracting Officer, unless such work is clearly specified in the plans or specifications.
- (h) If the removal of the existing work exposes discolored or unfinished surfaces, or work out of alignment, such surfaces shall be refinished, or the material replaced as necessary to make the continuous work uniform and harmonious. This, however, shall not be construed to require the refinishing or reconstruction of dissimilar finishes previously exposed, or finished surfaces in good condition, but in different planes or on different levels **Construction** when brought together by the removal of intervening work, unless such refinishing or reconstruction is specified in the plans or specifications.
- (i) The Contractor shall give all required notices to any adjoining or adjacent property owner or other party before the commencement of any work.
- (j) The Contractor shall indemnify and save harmless the PHA from any damages on account of settlement or the loss of lateral support of adjoining property, any damages from changes in topography affecting drainage, and from all loss or expense and all damages for which the PHA may become liable in consequence of such injury or damage to adjoining and adjacent structures and their premises.
- (k) The Contractor shall repair any damage to vegetation, structures, equipment, utilities, or improvements, including those that are the property of a third party, resulting from failure to comply with the requirements of this contract or failure to exercise reasonable care in performing the work. If the Contractor fails or refuses to repair the damage promptly, the Contracting Officer may have the necessary work performed and charge the cost to the Contractor.

17. Temporary Buildings and Transportation of Materials

- (a) Temporary buildings (e.g., storage sheds, shops, offices, sanitary facilities) and utilities may be erected by the Contractor only with the approval of the Contracting Officer and shall be built with labor and materials furnished by the Contractor without expense to the PHA. The temporary buildings and utilities shall remain the property of the Contractor and shall be removed by the Contractor at its expense upon completion of the work. With the written consent of the Contracting Officer, the buildings and utilities may be abandoned and need not be removed.
- (b) The Contractor shall, as directed by the Contracting Officer, use only established roadways, or use temporary roadways constructed by the Contractor when and as authorized by the Contracting Officer. When materials are transported in prosecuting the work, vehicles shall not be loaded beyond the loading capacity recommended by the manufacturer of the vehicle or prescribed by any federal, state, or local law or regulation. When it is necessary to cross curbs or sidewalks, the Contractor shall protect them from damage. The Contractor shall repair or pay for the repair of any damaged curbs, sidewalks, or roads.

18. Clean Air and Water

The contractor shall comply with the Clean Air Act, as amended, 42 USC 7401 et seq., the Federal Water Pollution Control Water Act, as amended, 33 U.S.C. 1251 et seq., and standards issued pursuant thereto in the facilities in which this contract is to be performed.

19. Energy Efficiency

The Contractor shall comply with mandatory standards and policies relating to energy efficiency which are contained in the energy conservation plan issued in compliance with the Energy Policy and Conservation Act (Pub.L. 94-163) for the State in which the work under the contract is performed.

20. Inspection and Acceptance of

- (a) Definitions. As used in this clause -
- (1) "Acceptance" means the act of an authorized representative of the PHA by which the PHA approves and assumes ownership of the work performed under this contract. Acceptance may be partial or complete.
- (2) "Inspection" means examining and testing the work performed under the contract (including, when appropriate, raw materials, equipment, components, and intermediate assemblies) to determine whether it conforms to contract requirements.
- (3) "Testing" means that element of inspection that determines the properties or elements, including functional operation of materials, equipment, or their components, by the application of established scientific principles and procedures.
- (b) The Contractor shall maintain an adequate inspection system and perform such inspections as will ensure that the work performed under the contract conforms to contract requirements. All work is subject to PHA inspection and test at all places and at all reasonable times before acceptance to ensure strict compliance with the terms of the contract.
- (c) PHA inspections and tests are for the sole benefit of the PHA and do not: (1) relieve the Contractor of responsibility for providing adequate quality control measures; (2) relieve the Contractor of responsibility for loss or damage of the material before acceptance; (3) constitute or imply acceptance; or, (4) affect the continuing rights of the PHA after acceptance of the completed work under paragraph (j) below.
- (d) The presence or absence of the PHA inspector does not relieve the Contractor from any contract requirement, nor is the inspector authorized to change any term or condition of the specifications without the Contracting Officer's written authorization. All instructions and approvals with respect to the work shall be given to the Contractor by the Contracting Officer.
- (e) The Contractor shall promptly furnish, without additional charge, all facilities, labor, and material reasonably needed for performing such safe and convenient inspections and tests as may be required by the Contracting Officer. The PHA may charge to the Contractor any additional cost of inspection or test when work is not ready at the time specified by the Contractor for inspection or test, or when prior rejection makes reinspection or retest necessary. The PHA shall perform all inspections and tests in a manner that will not unnecessarily delay the work. Special, full size, and performance tests shall be performed as described in the contract.

- (f) The PHA may conduct routine inspections of the construction site on a daily basis.
- (g) The Contractor shall, without charge, replace or correct work found by the PHA not to conform to contract requirements, unless the PHA decides that it is in its interest to accept the work with an appropriate adjustment in contract price. The Contractor shall promptly segregate and remove rejected material from the premises.
- (h) If the Contractor does not promptly replace or correct rejected work, the PHA may (1) by contract or otherwise, replace or correct the work and charge the cost to the Contractor, or (2) terminate for default the Contractor's right to proceed.
- (i) If any work requiring inspection is covered up without approval of the PHA, it must, if requested by the Contracting Officer, be uncovered at the expense of the Contractor. If at any time before final acceptance of the entire work, the **Construction PHA** considers it necessary or advisable, to examine work already completed by removing or tearing it out, the Contractor, shall on request, promptly furnish all necessary facilities, labor, and material. If such work is found to be defective or nonconforming in any material respect due to the fault of the Contractor or its subcontractors, the Contractor shall defray all the expenses of the examination and of satisfactory reconstruction. If, however, such work is found to meet the requirements of the contract, the Contracting Officer shall make an equitable adjustment to cover the cost of the examination and reconstruction, including, if completion of the work was thereby delayed, an extension of time.
- (j) The Contractor shall notify the Contracting Officer, in writing, as to the date when in its opinion all or a designated portion of the work will be substantially completed and ready for inspection. If the Architect determines that the state of preparedness is as represented, the PHA will promptly arrange for the inspection. Unless otherwise specified in the contract, the PHA shall accept, as soon as practicable after completion and inspection, all work required by the contract or that portion of the work the Contracting Officer determines and designates can be accepted separately. Acceptance shall be final and conclusive except for latent defects, fraud, gross mistakes amounting to fraud, or the PHA's right under any warranty or guarantee.

21. Use and Possession Prior to Completion

- (a) The PHA shall have the right to take possession of or use any completed or partially completed part of the work. Before taking possession of or using any work, the Contracting Officer shall furnish the Contractor a list of items of work remaining to be performed or corrected on those portions of the work that the PHA intends to take possession of or use. However, failure of the Contracting Officer to list any item of work shall not relieve the Contractor of responsibility for complying with the terms of the contract. The PHA's possession or use shall not be deemed an acceptance of any work under the contract.
- (b) While the PHA has such possession or use, the Contractor shall be relieved of the responsibility for (1) the loss of or damage to the work resulting from the PHA's possession or use, notwithstanding the terms of the clause entitled Permits and Codes herein; (2) all maintenance costs on the areas occupied; and, (3) furnishing heat, light, power, and water used in the areas

occupied without proper remuneration therefore. If prior possession or use by the PHA delays the progress of the work or causes additional expense to the Contractor, an equitable adjustment shall be made in the contract price or the time of completion, and the contract shall be modified in writing accordingly.

22. Warranty of Title

The Contractor warrants good title to all materials, supplies, and equipment incorporated in the work and agrees to deliver the premises together with all improvements thereon free from any claims, liens or charges, and agrees further that neither it nor any other person, firm or corporation shall have any right to a lien upon the premises or anything appurtenant thereto.

23. Warranty of

- (a) In addition to any other warranties in this contract, the Contractor warrants, except as provided in paragraph (j) of this clause, that work performed under this contract conforms to the contract requirements and is free of any defect in equipment, material, or workmanship performed by the Contractor or any subcontractor or supplier at any tier. This warranty shall continue for a period of _____ (one year unless otherwise indicated) from the date of final acceptance of the work. If the PHA takes possession of any part of the work before final acceptance, this warranty shall continue for a period of (one year unless otherwise indicated) from the date that the PHA takes possession.
- (b) The Contractor shall remedy, at the Contractor's expense, any failure to conform, or any defect. In addition, the Contractor shall remedy, at the Contractor's expense, any damage to PHA-owned or controlled real or personal property when the damage is the result of—
- (1) The Contractor's failure to conform to contract requirements; or
 - (2) Any defects of equipment, material, workmanship or design furnished by the Contractor.
- (c) The Contractor shall restore any work damaged in fulfilling the terms and conditions of this clause. The Contractor's warranty with respect to work repaired or replaced will run for (one year unless otherwise indicated) from the date of repair or replacement.
- (d) The Contracting Officer shall notify the Contractor, in writing, within a reasonable time after the discovery of any failure, defect or damage.
- (e) If the Contractor fails to remedy any failure, defect, or damage within a reasonable time after receipt of notice, the PHA shall have the right to replace, repair or otherwise remedy the failure, defect, or damage at the Contractor's expense.
- (f) With respect to all warranties, express or implied, from subcontractors, manufacturers, or suppliers for work performed and materials furnished under this contract, the Contractor shall:
- (1) Obtain all warranties that would be given in normal commercial practice;
 - (2) Require all warranties to be executed in writing, for the benefit of the PHA; and,
 - (3) Enforce all warranties for the benefit of the PHA.
- (g) In the event the Contractor's warranty under paragraph (a) of this clause has expired, the PHA may bring suit at its own expense to enforce a subcontractor's, manufacturer's or supplier's warranty.

- (h) Unless a defect is caused by the negligence of the Contractor or subcontractor or supplier at any tier, the Contractor shall not be liable for the repair of any defect of material or design furnished by the PHA nor for the repair of any damage that results from any defect in PHA furnished material or design.
- (i) Notwithstanding any provisions herein to the contrary, the establishment of the time periods in paragraphs (a) and (c) above relate only to the specific obligation of the Contractor to correct the work, and have no relationship to the time within which its obligation to comply with the contract may be sought to be enforced, nor to the time within which proceedings may be commenced to establish the Contractor's liability with respect to its obligation other than specifically to correct the work.
- (j) This warranty shall not limit the PHA's rights under the Inspection and Acceptance of Construction clause of this contract with respect to latent defects, gross mistakes or fraud.

24. Prohibition Against Liens

The Contractor is prohibited from placing a lien on the PHA's property. This prohibition shall apply to all subcontractors at any tier and all materials suppliers.

Administrative Requirements

25. Contract Period

this contract within _____ calendar days of the effective date of the contract, or within the time schedule established in the notice to proceed issued by the Contracting Officer.

26. Order of Provisions

accordance with the terms and conditions of the

In the event of a conflict between these General Conditions and the Specifications, the General Conditions shall prevail. In the event of a conflict between the contract and any applicable state or local law or regulation, the state or local law or regulation shall prevail; provided that such state or local law or regulation does not conflict with, or is less restrictive than applicable federal law, regulation, or Executive Order. In the event of such a conflict, applicable federal law, regulation, and Executive Order shall prevail.

27. Payments

retain ten (10) percent of the amount of progress

- (a) The PHA shall pay the Contractor the price as provided in this contract.
- (b) The PHA shall make progress payments approximately every 30 days as the work proceeds, on estimates of work accomplished which meets the standards of quality established under the contract, as approved by the Contracting Officer. The PHA may, subject to written determination and approval of the Contracting Officer, make more frequent payments to contractors which are qualified small businesses.
- (c) Before the first progress payment under this contract, the Contractor shall furnish, in such detail as requested by the Contracting Officer, a breakdown of the total contract price showing the amount included therein for each principal category of the work, which shall substantiate the payment amount requested in order to provide a

basis for determining progress payments. The breakdown shall be approved by the Contracting Officer and must be acceptable to HUD. If the contract covers more than one project, the Contractor shall furnish a separate breakdown for each. The values and quantities employed in making up this breakdown are for determining the amount of progress payments and shall not be construed as a basis for additions to or deductions from the contract price. The Contractor shall prorate its overhead and profit over the construction period of the contract.

- (d) The Contractor shall submit, on forms provided by the PHA, periodic estimates showing the value of the work performed during each period based upon the approved submitted not later than _____ days in advance of the date set for payment and are subject to correction and revision as required. The estimates must be approved by the Contracting Officer with the concurrence of the Architect prior to payment. If the contract covers more than one project, the Contractor shall furnish a separate progress payment estimate for each.
- (e) Along with each request for progress payments and the required estimates, the Contractor shall furnish the following certification, or payment shall not be made: I hereby certify, to the best of my knowledge and belief, that:

- (1) The amounts requested are only for performance in accordance with the specifications, terms, and conditions of the contract;
- (2) Payments to subcontractors and suppliers have been made from previous payments received under the contract, and timely payments will be made from the proceeds of the payment covered by this certification, in accordance with subcontract agreements; and,
- (3) This request for progress payments does not include any amounts which the prime contractor intends to withhold or retain from a subcontractor or supplier in subcontract.

Name:

Title:

Date:

- (f) Except as otherwise provided in State law, the PHA shall payments until completion and acceptance of all work under the contract; except, that if upon completion of 50 percent of the work, the Contracting Officer, after consulting with the Architect, determines that the Contractor's performance and progress are satisfactory, the PHA may make the remaining payments in full for the work subsequently completed. If the Contracting Officer subsequently determines that the Contractor's performance and progress are unsatisfactory, the PHA shall reinstate the ten (10) percent (or other percentage as provided in State law) retainage until such time as the Contracting Officer determines that performance and progress are satisfactory.
- (g) The Contracting Officer may authorize material delivered on the site and preparatory work done to be taken into consideration when computing progress payments.

Material delivered to the Contractor at locations other than the site may also be taken into consideration if the Contractor furnishes satisfactory evidence that (1) it has acquired title to such material; (2) the material is properly stored in a bonded warehouse, storage yard, or similar suitable place as may be approved by the Contracting Officer; (3) the material is insured to cover its full value; and (4) the material will be used to perform this contract. Before any progress payment which includes delivered material is made, the Contractor shall furnish such documentation as the Contracting Officer may require to assure the protection of the PHA's interest in such materials. The Contractor shall remain responsible for such stored material notwithstanding the transfer of title to the PHA.

- (h) All material and work covered by progress payments made shall, at the time of payment become the sole property of the PHA, but this shall not be construed as (1) relieving the Contractor from the sole responsibility for all material and work upon which payments have been made or the restoration of any damaged work; or, (2) waiving the right of the PHA to require the fulfillment of all of the terms of the contract. In the event the work of the Contractor has been damaged by other contractors or persons other than employees of the PHA in the course of their employment, the Contractor shall restore such damaged work without cost to the PHA and to seek redress for its damage only from those who directly caused it.
- (i) The PHA shall make the final payment due the Contractor under this contract after (1) completion and final acceptance of all work; and (2) presentation of release of all claims against the PHA arising by virtue of this contract, other than claims, in stated amounts, that the Contractor has specifically excepted from the operation of the release. Each such exception shall embrace no more than one claim, the basis and scope of which shall be clearly defined. The amounts for such excepted claims shall not be included in the request for final payment. A release may also be required of the assignee if the Contractor's claim to amounts payable under this contract has been assigned.
- (j) Prior to making any payment, the Contracting Officer may require the Contractor to furnish receipts or other evidence of payment from all persons performing work and supplying material to the Contractor, if the Contracting Officer determines such evidence is necessary to substantiate claimed costs.
- (k) The PHA shall not; (1) determine or adjust any claims for payment or disputes arising there under between the Contractor and its subcontractors or material suppliers; or, (2) withhold any moneys for the protection of the subcontractors or material suppliers. The failure or refusal of the PHA to withhold moneys from the Contractor shall in no wise impair the obligations of any surety or sureties under any bonds furnished under this contract.

28. Contract Modifications

- (a) Only the Contracting Officer has authority to modify any term or condition of this contract. Any contract modification shall be authorized in writing.
- (b) The Contracting Officer may modify the contract unilaterally (1) pursuant to a specific authorization stated in a contract clause (e.g., Changes); or (2) for administrative matters which do not change the rights or

responsibilities of the parties (e.g., change in the PHA address). All other contract modifications shall be in the form of supplemental agreements signed by the Contractor and the Contracting Officer.

- (c) When a proposed modification requires the approval of HUD prior to its issuance (e.g., a change order that exceeds the PHA's approved threshold), such modification shall not be effective until the required approval is received by the PHA.

29. Changes

- (a) The Contracting Officer may, at any time, without notice to the sureties, by written order designated or indicated to be a change order, make changes in the work within the general scope of the contract including changes:
 - (1) In the specifications (including drawings and designs);
 - (2) In the method or manner of performance of the work;
 - (3) PHA-furnished facilities, equipment, materials, services, or site; or,
 - (4) Directing the acceleration in the performance of the work.
- (b) Any other written order or oral order (which, as used in this paragraph (b), includes direction, instruction, interpretation, or determination) from the Contracting Officer that causes a change shall be treated as a change order under this clause; provided, that the Contractor gives the Contracting Officer written notice stating (1) the date, circumstances and source of the order and (2) that the Contractor regards the order as a change order.
- (c) Except as provided in this clause, no order, statement or conduct of the Contracting Officer shall be treated as a change under this clause or entitle the Contractor to an equitable adjustment.
- (d) If any change under this clause causes an increase or decrease in the Contractor's cost of, or the time required for the performance of any part of the work under this contract, whether or not changed by any such order, the Contracting Officer shall make an equitable adjustment and modify the contract in writing. However, except for an adjustment based on defective specifications, no proposal for any change under paragraph (b) above shall be allowed for any costs incurred more than 20 days (5 days for oral orders) before the Contractor gives written notice as required. In the case of defective specifications for which the PHA is responsible, the equitable adjustment shall include any increased cost reasonably incurred by the Contractor in attempting to comply with the defective specifications.
- (e) The Contractor must assert its right to an adjustment under this clause within 30 days after (1) receipt of a written change order under paragraph (a) of this clause, or (2) the furnishing of a written notice under paragraph (b) of this clause, by submitting a written statement describing the general nature and the amount of the proposal. If the facts justify it, the Contracting Officer may extend the period for submission. The proposal may be included in the notice required under paragraph (b) above. No proposal by the Contractor for an equitable adjustment shall be allowed if asserted after final payment under this contract.
- (f) The Contractor's written proposal for equitable adjustment shall be submitted in the form of a lump sum proposal supported with an itemized breakdown of all increases and decreases in the contract in at least the following details:

- (1) Direct Costs. Materials (list individual items, the quantity and unit cost of each, and the aggregate cost); Transportation and delivery costs associated with materials; Labor breakdowns by hours or unit costs (identified with specific work to be performed); Construction equipment exclusively necessary for the change; Costs of preparation and/ or revision to shop drawings resulting from the change; Worker's Compensation and Public Liability Insurance; Employment taxes under FICA and FUTA; and, Bond Costs when size of change warrants revision.
- (2) Indirect Costs. Indirect costs may include overhead, general and administrative expenses, and fringe benefits not normally treated as direct costs.
- (3) Profit. The amount of profit shall be negotiated and may vary according to the nature, extent, and complexity of the work required by the change. The allowability of the direct and indirect costs shall be determined in accordance with the Contract Cost Principles and Procedures for Commercial Firms in Part 31 of the Federal Acquisition Regulation (48 CFR 1-31), as implemented by HUD Handbook 2210.18, in effect on the date of this contract. The Contractor shall not be allowed a profit on the profit received by any subcontractor. Equitable adjustments for deleted work shall include a credit for profit and may include a credit for indirect costs. On proposals covering both increases and decreases in the amount of the contract, the application of indirect costs and profit shall be on the net-change in direct costs for the Contractor or subcontractor performing the work.
- (g) The Contractor shall include in the proposal its request for time extension (if any), and shall include sufficient information and dates to demonstrate whether and to what extent the change will delay the completion of the contract in its entirety.
- (h) The Contracting Officer shall act on proposals within 30 days after their receipt, or notify the Contractor of the date when such action will be taken.
- (i) Failure to reach an agreement on any proposal shall be a dispute under the clause entitled Disputes herein. Nothing in this clause, however, shall excuse the Contractor from proceeding with the contract as changed.
- (j) Except in an emergency endangering life or property, no change shall be made by the Contractor without a prior order from the Contracting Officer.

30. Suspension of Work

- (a) The Contracting Officer may order the Contractor in writing to suspend, delay, or interrupt all or any part of the work of this contract for the period of time that the Contracting Officer determines appropriate for the convenience of the PHA.
- (b) If the performance of all or any part of the work is, for an unreasonable period of time, suspended, delayed, or interrupted (1) by an act of the Contracting Officer in the administration of this contract, or (2) by the Contracting Officer's failure to act within the time specified (or within a reasonable time if not specified) in this contract an adjustment shall be made for any increase in the cost of performance of the contract (excluding profit) necessarily caused by such unreasonable suspension, delay, or interruption and the contract modified in writing accordingly. However, no adjustment shall be made under this clause for any suspension, delay, or interruption to the extent that performance would have

- been so suspended, delayed, or interrupted by any other cause, including the fault or negligence of the Contractor or for which any equitable adjustment is provided for or excluded under any other provision of this contract.
- (c) A claim under this clause shall not be allowed (1) for any costs incurred more than 20 days before the Contractor shall have notified the Contracting Officer in writing of the act or failure to act involved (but this requirement shall not apply as to a claim resulting from a suspension order); and, (2) unless the claim, in an amount stated, is asserted in writing as soon as practicable after the termination of the suspension, delay, or interruption, but not later than the date of final payment under the contract.

31. Disputes

- (a) "Claim," as used in this clause, means a written demand or written assertion by one of the contracting parties seeking, as a matter of right, the payment of money in a sum certain, the adjustment or interpretation of contract terms, or other relief arising under or relating to the contract. A claim arising under the contract, unlike a claim relating to the contract, is a claim that can be resolved under a contract clause that provides for the relief sought by the claimant. A voucher, invoice, or other routine request for payment that is not in dispute when submitted is not a claim. The submission may be converted to a claim by complying with the requirements of this clause, if it is disputed either as to liability or amount or is not acted upon in a reasonable time.
- (b) Except for disputes arising under the clauses entitled Labor Standards - Davis Bacon and Related Acts, herein, all disputes arising under or relating to this contract, including any claims for damages for the alleged breach thereof which are not disposed of by agreement, shall be resolved under this clause.
- (c) All claims by the Contractor shall be made in writing and submitted to the Contracting Officer for a written decision. A claim by the PHA against the Contractor shall be subject to a written decision by the Contracting Officer.
- (d) The Contracting Officer shall, within 60 (unless otherwise indicated) days after receipt of the request, decide the claim or notify the Contractor of the date by which the decision will be made.
- (e) The Contracting Officer's decision shall be final unless the Contractor (1) appeals in writing to a higher level in the PHA in accordance with the PHA's policy and procedures, (2) refers the appeal to an independent mediator or arbitrator, or (3) files suit in a court of competent jurisdiction. Such appeal must be made within (30 unless otherwise indicated) days after receipt of the Contracting Officer's decision.
- (f) The Contractor shall proceed diligently with performance of this contract, pending final resolution of any request for relief, claim, appeal, or action arising under or relating to the contract, and comply with any decision of the Contracting Officer.

32. Default

- (a) If the Contractor refuses or fails to prosecute the work, or any separable part thereof, with the diligence that will insure its completion within the time specified in this contract, or any extension thereof, or fails to complete said work within this time, the Contracting Officer may, by written notice to the Contractor, terminate the right to

proceed with the work (or separable part of the work) that has been delayed. In this event, the PHA may take over the work and complete it, by contract or otherwise, and may take possession of and use any materials, equipment, and plant on the work site necessary for completing the work. The Contractor and its sureties shall be liable for any damage to the PHA resulting from the **Convenience** Contractor's refusal or failure to complete the work within the specified time, whether or not the Contractor's right to proceed with the work is terminated. This liability includes any increased costs incurred by the PHA in completing the work.

- (b) The Contractor's right to proceed shall not be terminated or the Contractor charged with damages under this clause if—
- (1) The delay in completing the work arises from unforeseeable causes beyond the control and without the fault or negligence of the Contractor. Examples of such causes include (i) acts of God, or of the public enemy, (ii) acts of the PHA or other governmental entity in either its sovereign or contractual capacity, (iii) acts of another contractor in the performance of a contract with the PHA, (iv) fires, (v) floods, (vi) epidemics, (vii) quarantine restrictions, (viii) strikes, (ix) freight embargoes, (x) unusually severe weather, or (xi) delays of subcontractors or suppliers at any tier arising from unforeseeable causes beyond the control and without the fault or negligence of both the Contractor and the subcontractors or suppliers; and
- (2) The Contractor, within days (10 days unless otherwise indicated) from the beginning of such delay (unless extended by the Contracting Officer) notifies the Contracting Officer in writing of the causes of delay. The Contracting Officer shall ascertain the facts and the extent of the delay. If, in the judgment of the Contracting Officer, the findings of fact warrant such action, time for completing the work shall be extended by written modification to the contract. The findings of the Contracting Officer shall be reduced to a written decision which shall be subject to the provisions of the Disputes clause of this contract.
- (c) If, after termination of the Contractor's right to proceed, it is determined that the Contractor was not in default, or that the delay was excusable, the rights and obligations of the parties will be the same as if the termination had been for convenience of the PHA.

33. Liquidated Damages

- (a) If the Contractor fails to complete the work within the time specified in the contract, or any extension, as specified in the clause entitled Default of this contract, the Contractor shall pay to the PHA as liquidated damages, the sum of \$ _____ [Contracting Officer insert amount] for each day of delay. If different completion dates are specified in the contract for separate parts or stages of the work, the amount of liquidated damages shall be assessed on those parts or stages which are delayed. To the extent that the Contractor's delay or nonperformance is excused under another clause in this contract, liquidated damages shall not be due the PHA. The Contractor remains liable for damages caused other than by delay.
- (b) If the PHA terminates the Contractor's right to proceed, the resulting damage will consist of liquidated damages until such reasonable time as may be required for final

completion of the work together with any increased costs occasioned the PHA in completing the work.

- (c) If the PHA does not terminate the Contractor's right to proceed, the resulting damage will consist of liquidated damages until the work is completed or accepted.

34. Termination for

- (a) The Contracting Officer may terminate this contract in whole, or in part, whenever the Contracting Officer determines that such termination is in the best interest of the PHA. Any such termination shall be effected by delivery to the Contractor of a Notice of Termination specifying the extent to which the performance of the work under the contract is terminated, and the date upon which such termination becomes effective.
- (b) If the performance of the work is terminated, either in whole or in part, the PHA shall be liable to the Contractor for reasonable and proper costs resulting from such termination upon the receipt by the PHA of a properly presented claim setting out in detail: (1) the total cost of the work performed to date of termination less the total amount of contract payments made to the Contractor; (2) the cost (including reasonable profit) of settling and paying claims under subcontracts and material orders for work performed and materials and supplies delivered to the site, payment for which has not been made by the PHA to the Contractor or by the Contractor to the subcontractor or supplier; (3) the cost of preserving and protecting the work already performed until the PHA or assignee takes possession thereof or assumes responsibility therefore; (4) the actual or estimated cost of legal and accounting services reasonably necessary to prepare and present the termination claim to the PHA; and (5) an amount constituting a reasonable profit on the value of the work performed by the Contractor.
- (c) The Contracting Officer will act on the Contractor's claim within days (60 days unless otherwise indicated) of receipt of the Contractor's claim.
- (d) Any disputes with regard to this clause are expressly made subject to the provisions of the Disputes clause of this contract.

35. Assignment of Contract

The Contractor shall not assign or transfer any interest in this contract; except that claims for monies due or to become due from the PHA under the contract may be assigned to a bank, trust company, or other financial institution. Such assignments of claims shall only be made with the written concurrence of the Contracting Officer. If the Contractor is a partnership, this contract shall inure to the benefit of the surviving or remaining member(s) of such partnership as approved by the Contracting Officer.

36. Insurance

- (a) Before commencing work, the Contractor and each subcontractor shall furnish the PHA with certificates of insurance showing the following insurance is in force and will insure all operations under the Contract:
- (1) Workers' Compensation, in accordance with state or Territorial Workers' Compensation laws.
- (2) Commercial General Liability with a combined single limit for bodily injury and property damage of not less than \$ _____ [Contracting Officer insert amount]

per occurrence to protect the Contractor and each subcontractor against claims for bodily injury or death and damage to the property of others. This shall cover the use of all equipment, hoists, and vehicles on the site(s) not covered by Automobile Liability under (3) below. If the Contractor has a "claims made" policy, then the following additional requirements apply: the policy must provide a "retroactive date" which must be on or before the execution date of the Contract; and the extended reporting period may not be less than five years following the completion date of the Contract.

- (3) Automobile Liability on owned and non-owned motor vehicles used on the site(s) or in connection therewith for a combined single limit for bodily injury and property damage of not less than \$ _____

[Contracting Officer insert amount] per occurrence.

- (b) Before commencing work, the Contractor shall furnish the PHA with a certificate of insurance evidencing that Builder's Risk (fire and extended coverage) Insurance on all work in place and/or materials stored at the building site(s), including foundations and building equipment, is in force. The Builder's Risk Insurance shall be for the benefit of the Contractor and the PHA as their interests may appear and each shall be named in the policy or policies as an insured. The Contractor in installing equipment supplied by the PHA shall carry insurance on such equipment from the time the Contractor takes possession thereof until the Contract work is accepted by the PHA. The Builder's Risk Insurance need not be carried on excavations, piers, footings, or foundations until such time as work on the superstructure is started. It need not be carried on landscape work. Policies shall furnish coverage at all times for the full cash value of all completed construction, as well as materials in place and/or stored at the site(s), whether or not partial payment has been made by the PHA. The Contractor may terminate this insurance on buildings as of the date taken over for occupancy by the PHA. The Contractor is not required to carry Builder's Risk Insurance for modernization work which does not involve structural alterations or additions and where the PHA's existing fire and extended coverage policy can be endorsed to include such work.
- (c) All insurance shall be carried with companies which are financially responsible and admitted to do business in the State in which the project is located. If any such insurance is due to expire during the construction period, the Contractor (including subcontractors, as applicable) shall not permit the coverage to lapse and shall furnish evidence of coverage to the Contracting Officer. All certificates of insurance, as evidence of coverage, shall provide that no coverage may be canceled or non-renewed by the insurance company until at least 30 days prior written notice has been given to the Contracting Officer.

37. Subcontracts

- (a) Definitions. As used in this contract -
- (1) "Subcontract" means any contract, purchase order, or other purchase agreement, including modifications and change orders to the foregoing, entered into by a subcontractor to furnish supplies, materials, equipment, and services for the performance of the prime contract or a subcontract.

- (2) "Subcontractor" means any supplier, vendor, or firm that furnishes supplies, materials, equipment, or services to or for the Contractor or another subcontractor.
- (b) The Contractor shall not enter into any subcontract with any subcontractor who has been temporarily denied participation in a HUD program or who has been suspended or debarred from participating in contracting programs by any agency of the United States Government or of the state in which the work under this contract is to be performed.
- (c) The Contractor shall be as fully responsible for the acts or omissions of its subcontractors, and of persons either directly or indirectly employed by them as for the acts or omissions of persons directly employed by the Contractor.
- (d) The Contractor shall insert appropriate clauses in all subcontracts to bind subcontractors to the terms and conditions of this contract insofar as they are applicable to the work of subcontractors.
- (e) Nothing contained in this contract shall create any contractual relationship between any subcontractor and the PHA or between the subcontractor and HUD.

38. Subcontracting with Small and Minority Firms, Women's Business Enterprise, and Labor Surplus Area Firms

The Contractor shall take the following steps to ensure that, whenever possible, subcontracts are awarded to small business firms, minority firms, women's business enterprises, and labor surplus area firms:

- (a) Placing qualified small and minority businesses and women's business enterprises on solicitation lists;
- (b) Ensuring that small and minority businesses and women's business enterprises are solicited whenever they are potential sources;
- (c) Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses and women's business enterprises;
- (d) Establishing delivery schedules, where the requirements of the contract permit, which encourage participation by small and minority businesses and women's business enterprises; and
- (e) Using the services and assistance of the U.S. Small Business Administration, the Minority Business Development Agency of the U.S. Department of Commerce, and State and local governmental small business agencies.

39. Equal Employment Opportunity

During the performance of this contract, the Contractor/Seller agrees as follows:

- (a) The Contractor/Seller shall not discriminate against any employee or applicant for employment because of race color, religion, sex, sexual orientation, gender identity, disability, or national origin.
- (b) The Contractor/Seller shall take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, sexual orientation, gender identity, disability, or national origin. Such action shall include, but not be limited to, (1) employment, (2) upgrading demotion, (4) transfer, (5) recruitment or recruitment advertising, (6) layoff or termination, (7) rates of pay or other forms of compensation, and (8) selection for training, including apprenticeship

(c) The Contractor/Seller agrees to post in conspicuous places available to employees and applicants for employment the notices to be provided by the Contracting Officer setting forth the provisions of this nondiscrimination clause.

(d) The Contractor/Seller shall, in all solicitations or advertisements for employees placed by or on behalf of the Contractor/Seller, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.

(e) The Contractor/Seller shall send, to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding, the notice to be provided by the Contracting Officer advising the labor union or workers' representative of the Contractor's commitments under this clause, and post copies of the notice in conspicuous places available to employees and applicants for employment.

(f) The Contractor/Seller shall comply with Executive Order 11246, as amended, and the rules, regulations, and orders of the Secretary of Labor.

(g) The Contractor/Seller shall furnish all information and reports required by Executive Order 11246, as amended, Section 503 of the Rehabilitation Act of 1973, as amended, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto. The Contractor/Seller shall permit

access to its books, records, and accounts by the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

(h) In the event of a that the Contractor/Seller is in noncompliance with the nondiscrimination clauses of this contract or with any of such rules, regulations, or orders, this contract may be canceled, terminated or suspended in whole or in part and the contractor/seller may be declared ineligible for further Government contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

(i) The contractor/seller will include the provisions of paragraphs (a) through (h) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each sub[contractor/seller] or vendor. The [contractor/seller] will take such action with respect to any subcontract or purchase order as may be directed by the Secretary of Labor as a means of enforcing such provisions including sanctions for noncompliance: Provided, however, that in the event the [contractor/seller] becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction, the [contractor/seller] may request the United States to enter into such litigation to protect the interests of the United States.

(j) Compliance with the requirements of this clause shall be to the maximum extent consistent with, but not in derogation of, compliance with section 7(b) of the Indian Self-Determination and Education Assistance Act and the Indian Preference clause of this contract.

40. Employment, Training, and Contracting Opportunities for Low-Income Persons, Section 3 of the Housing and Urban Development Act of 1968.

(a) The work to be performed under this contract is subject to the requirements of Section 3 of the Housing and Urban Development Act of 1968, as amended, 12 U.S.C. 1701u (section 3). The purpose of section 3 is to ensure that employment and other economic opportunities generated by HUD assistance or HUD-assisted projects covered by Section 3, shall, to the greatest extent feasible, be directed to low- and very low-income persons, particularly persons who are recipients of HUD assistance for housing.

(b) The parties to this contract agree to comply with HUD's regulations in 24 CFR Part 75, which implement Section 3. As evidenced by their execution of this contract, the parties to this contract certify that they are under no contractual or other impediment that would prevent them from complying with the Part 75 regulations.

(c) The contractor agrees to send to each labor organization or representative of workers with which the contractor has a collective bargaining agreement or other understanding, if any, a notice advising the labor organization or workers' representative of the contractor's commitments under this section 3 clause and will post copies of the notice in conspicuous places at the work site where both employees and applicants for training and employment positions can see the notice. The notice shall describe the Section 3 prioritization requirements and shall state the minimum percentages of labor hour requirements established in the Benchmark Notice (FR-6085-N-04).

(d) The contractor agrees to include this section 3 clause in every subcontract subject to compliance with regulations in 24 CFR Part 75, and agrees to take appropriate action, as provided in an applicable provision of the subcontract or in this section 3 clause, upon a finding that the subcontractor is in violation of the regulations in 24 CFR Part 75. The contractor will not subcontract with any subcontractor where the contractor has notice or knowledge that the subcontractor has been found in violation of the regulations in 24 CFR Part 75.

(e) Noncompliance with HUD's regulations in 24 CFR Part 75 may result in sanctions, termination of this contract for default, and debarment or suspension from future HUD assisted contracts.

(f) Contracts, subcontracts, grants, or subgrants subject to Section 7(b) of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 5307(b)) or subject to tribal preference requirements as authorized under 101(k) of the Native American Housing Assistance and Self-Determination Act (25 U.S.C. 4111(k)) must provide preferences in employment, training, and business opportunities to Indians and Indian organizations, and are therefore not subject to the requirements of 24 CFR Part 75.

41. Interest of Members of Congress

No member of or delegate to the Congress of the United States of America shall be admitted to any share or part of this contract or to any benefit that may arise therefrom.

42. Interest of Members, Officers, or Employees and Former Members, Officers, or Employees

No member, officer, or employee of the PHA, no member of the governing body of the locality in which the project is situated, no member of the governing body of the locality in which the PHA was activated, and no other public official of such locality or localities who exercises any functions or responsibilities with respect to the project, shall, during his or her tenure, or for one year thereafter, have any interest, direct or indirect, in this contract or the proceeds thereof.

43. Limitations on Payments made to Influence Certain Federal Financial Transactions

- (a) The Contractor agrees to comply with Section 1352 of Title 31, United States Code which prohibits the use of **Acts** Federal appropriated funds to pay any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, and officer or employee of Congress, or an employee of a Member of Congress in connection with any of the following covered Federal actions: the awarding of any Federal contract; the making of any Federal grant; the making of any Federal loan; the entering into of any cooperative agreement; or the modification of any Federal contract, grant, loan, or cooperative agreement.
- (b) The Contractor further agrees to comply with the requirement of the Act to furnish a disclosure (OMB Standard Form LLL, Disclosure of Lobbying Activities) if any funds other than Federal appropriated funds (including profit or fee received under a covered Federal transaction) have been paid, or will be paid, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with a Federal contract, grant, loan, or cooperative agreement.

44. Royalties and Patents

The Contractor shall pay all royalties and license fees. It shall defend all suits or claims for infringement of any patent rights and shall save the PHA harmless from loss on account thereof; except that the PHA shall be responsible for all such loss when a particular design, process or the product of a particular manufacturer or manufacturers is specified and the Contractor has no reason to believe that the specified design, process, or product is an infringement. If, however, the Contractor has reason to believe that any design, process or product specified is an infringement of a patent, the Contractor shall promptly notify the Contracting Officer. Failure to give such notice shall make the Contractor responsible for resultant loss.

45. Examination and Retention of Contractor's Records

- (a) The PHA, HUD, or Comptroller General of the United States, or any of their duly authorized representatives shall, until 3 years after final payment under this contract, have access to and the right to examine any of the Contractor's directly pertinent books, documents, papers, or other records involving transactions related to this contract for the purpose of making audit, examination, excerpts, and transcriptions.
- (b) The Contractor agrees to include in first-tier subcontracts under this contract a clause substantially the same as paragraph (a) above. "Subcontract," as used in this clause, excludes purchase orders not exceeding \$10,000.
- (c) The periods of access and examination in paragraphs (a) and (b) above for records relating to (1) appeals under the Disputes clause of this contract, (2) litigation or settlement of claims arising from the performance of this contract, or (3) costs and expenses of this contract to which the PHA, HUD, or Comptroller General or any of their duly authorized representatives has taken exception shall continue until disposition of such appeals, litigation, claims, or exceptions.

46. Labor Standards - Davis-Bacon and Related

If the total amount of this contract exceeds \$2,000, the Federal labor standards set forth in the clause below shall apply to the development or construction work to be performed under the contract.

- (a) Minimum Wages.
 - (1) All laborers and mechanics employed under this contract in the development or construction of the project(s) involved will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR Part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the Contractor and such laborers and mechanics. Contributions made or costs reasonably anticipated for bona fide fringe benefits under Section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of 29 CFR 5.5(a)(1)(iv); also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the regular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits in the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein; provided, that the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under 29 CFR 5.5(a)(1)(ii) and the Davis-Bacon poster (WH-1321) shall

be posted at all times by the Contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

(2) (i) Any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. HUD shall approve an additional classification and wage rate and fringe benefits therefor only when all the following criteria have been met: (A) The work to be performed by the classification requested is not performed by a classification in the wage determination; and (B) The classification is utilized in the area by the construction industry; and (C) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(ii) If the Contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and HUD or its designee agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by HUD or its designee to the Administrator of the Wage and Hour Division, Employee Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise HUD or its designee or will notify HUD or its designee within the 30-day period that additional time is necessary.

(iii) In the event the Contractor, the laborers or mechanics to be employed in the classification or their representatives, and HUD or its designee do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), HUD or its designee shall refer the questions, including the views of all interested parties and the recommendation of HUD or its designee, to the Administrator of the Wage and Hour Division for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise HUD or its designee or will notify HUD or its designee within the 30-day period that additional time is necessary.

(iv) The wage rate (including fringe benefits where appropriate) determined pursuant to subparagraphs (a)(2)(ii) or (iii) of this clause shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in classification.

(3) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the Contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

(4) If the Contractor does not make payments to a trustee or other third person, the Contractor may consider as part of the wages of any laborer or mechanic the

amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program; provided, that the Secretary of Labor has found, upon the written request of the Contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the Contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

(b) Withholding of funds. HUD or its designee shall, upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the Contractor under this contract or any other Federal contract with the same prime Contractor, or any other Federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime Contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the Contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working in the construction or development of the project, all or part of the wages required by the contract, HUD or its designee may, after written notice to the Contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased. HUD or its designee may, after written notice to the Contractor, disburse such amounts withheld for and on account of the Contractor or subcontractor to the respective employees to whom they are due.

(c) Payrolls and basic records.

(1) Payrolls and basic records relating thereto shall be maintained by the Contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working in the construction or development of the project. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made, and actual wages paid. Whenever the Secretary of Labor has found, under 29 CFR 5.5(a)(1)(iv), that the wages of any laborer or mechanic include the amount of costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the Contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

(2) (i) The Contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the Contracting Officer for transmission to HUD or its designee. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under subparagraph (c)(1) of this clause. This information may be submitted in any form desired. Optional Form WH-347 (Federal Stock Number 029-005-00014-1) is available for this purpose and may be purchased from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. The Contractor is responsible for the submission of copies of payrolls by all subcontractors. (Approved by the Office of Management and Budget under OMB Control Number 1214-0149.)

(ii) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the Contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

- (A) That the payroll for the payroll period contains the information required to be maintained under paragraph (c) (1) of this clause and that such information is correct and complete;
 - (B) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in 29 CFR Part 3; and
 - (C) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.
- (iii) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirements for submission of the "Statement of Compliance" required by subparagraph (c)(2)(ii) of this clause.
- (iv) The falsification of any of the above certifications may subject the Contractor or subcontractor to civil or criminal prosecution under Section 1001 of Title 18 and Section 3729 of Title 31 of the United States Code.

(3) The Contractor or subcontractor shall make the records required under subparagraph (c)(1) available for inspection, copying, or transcription by authorized representatives of HUD or its designee, the Contracting Officer, or the Department of Labor and shall permit such representatives to interview employees during working hours on the job. If the Contractor or subcontractor fails to submit the required records or to make them available, HUD or its designee may, after written notice to the Contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to

make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

- (d) (1) Apprentices. Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship and Training, Employer and Labor Services (OATELS), or with a State Apprenticeship Agency recognized by OATELS, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by OATELS or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the Contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated in this paragraph, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the Contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator of the Wage and Hour Division determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event OATELS, or a State Apprenticeship Agency recognized by OATELS, withdraws approval of an apprenticeship program, the Contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.
- (2) Trainees. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under

- the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed in the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate in the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate in the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate in the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the Contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.
- (3) Equal employment opportunity. The utilization of apprentices, trainees, and journeymen under this clause shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR Part 30.
- (e) Compliance with Copeland Act requirements. The Contractor shall comply with the requirements of 29 CFR Part 3, which are hereby incorporated by reference in this contract.
- (f) Contract termination; debarment. A breach of this contract clause may be grounds for termination of the contract and for debarment as a Contractor and a subcontractor as provided in 29 CFR 5.12.
- (g) Compliance with Davis-Bacon and related Act requirements. All rulings and interpretations of the Davis-Bacon and related Acts contained in 29 CFR Parts 1, 3, and 5 are herein incorporated by reference in this contract.
- (h) Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this clause shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR Parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the Contractor (or any of its subcontractors) and the PHA, HUD, the U.S. Department of Labor, or the employees or their representatives.
- (i) Certification of eligibility.
- (1) By entering into this contract, the Contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the Contractor's firm is a person or firm ineligible to be awarded contracts by the United States Government by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).
- (2) No part of this contract shall be subcontracted to any person or firm ineligible for award of a United States Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).
- (3) The penalty for making false statements is prescribed in the U. S. Criminal Code, 18 U.S.C. 1001.
- (j) Contract Work Hours and Safety Standards Act. As used in this paragraph, the terms "laborers" and "mechanics" include watchmen and guards.
- (1) Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics, including watchmen and guards, shall require or permit any such laborer or mechanic in any workweek in which the individual is employed on such work to work in excess of 40 hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of 40 hours in such workweek.
- (2) Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the provisions set forth in subparagraph (j)(1) of this clause, the Contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such Contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic (including watchmen and guards) employed in violation of the provisions set forth in subparagraph (j)(1) of this clause, in the sum of \$27 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of 40 hours without payment of the overtime wages required by provisions set forth in subparagraph (j)(1) of this clause. DOL posts current fines at: <https://www.dol.gov/whd/govcontracts/cwhssa.htm#cmp>
- (3) Withholding for unpaid wages and liquidated damages. HUD or its designee shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the Contractor or subcontractor under any such contract or any Federal contract with the same prime Contractor, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime Contractor, such sums as may be determined to be necessary to satisfy any liabilities of such Contractor or subcontractor for unpaid wages and liquidated damages as provided in the provisions set forth in subparagraph (j)(2) of this clause.
- (k) Subcontracts. The Contractor or subcontractor shall insert in any subcontracts all the provisions contained in this clause, and such other clauses as HUD or its designee may by appropriate instructions require, and also a clause requiring the subcontractors to include these provisions in any lower tier subcontracts. The prime Contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all these provisions.

47. Non-Federal Prevailing Wage Rates

(a) Any prevailing wage rate (including basic hourly rate and any fringe benefits), determined under State or tribal law to be prevailing, with respect to any employee in any trade or position employed under the contract, is inapplicable to the contract and shall not be enforced against the Contractor or any subcontractor, with respect to employees engaged under the contract whenever such non-Federal prevailing wage rate exceeds:

(1) The applicable wage rate determined by the Secretary of Labor pursuant to the Davis-Bacon Act (40 U.S.C. 3141 et seq.) to be prevailing in the locality with respect to such trade;

(b) An applicable apprentice wage rate based thereon specified in an apprenticeship program registered with the U.S. Department of Labor (DOL) or a DOL-recognized State Apprenticeship Agency; or

(c) An applicable trainee wage rate based thereon specified in a DOL-certified trainee program.

48. Procurement of Recovered Materials.

(a) In accordance with Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act, the Contractor shall procure items designated in guidelines of the Environmental Protection Agency (EPA) at 40 CFR Part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition. The Contractor shall procure items designated in the EPA guidelines that contain the highest percentage of recovered materials practicable unless the Contractor determines that such items: (1) are not reasonably available in a reasonable period of time; (2) fail to meet reasonable performance standards, which shall be determined on the basis of the guidelines of the National Institute of Standards and Technology, if applicable to the item; or (3) are only available at an unreasonable price.

() Paragraph (a) of this clause shall apply to items purchased under this contract where: (1) the Contractor purchases in excess of \$10,000 of the item under this contract; or (2) during the preceding Federal fiscal year, the Contractor: (i) purchased any amount of the items for use under a contract that was funded with Federal appropriations and was with a Federal agency or a State agency or agency of a political subdivision of a State; and (ii) purchased a total of in excess of \$10,000 of the item both under and outside that contract.

**SECTION 00 80 00
SUPPLEMENTARY GENERAL CONDITIONS**

SUPPLEMENTS

1.01 SUPPLEMENTS

- A. The following Supplements add to the "General Conditions for Construction Contracts" (HUD-5370, 01/2013). Where any article, paragraph, sub-paragraph, or clause of the General Conditions is modified or deleted by these supplements, the unaltered provisions shall remain in effect.

1.02 CONTRACTOR'S RESPONSIBILITY FOR WORK

- A. In addition to the PHA, its officers and agents, clause 2, article (d) and clause 16, article (j) of the HUD General Conditions, the Contractor shall defend, indemnify and hold harmless to the fullest extent permitted by law the Owner, Architect, Architect's Consultants, and Agents and Employees of any of them from any and all losses, costs, damages, liability and expenses including reasonable attorney fees in connection with claims or suits for damage to property and/or injury to persons, including death, alleged or claimed to have been caused by or through the performance of the work or operations incidental to the work, by the Contractor, his agents or employees, or by his subcontractors of any tier, their agents or employees, whether through negligence or willful act; and the Contractor shall at the request of the Owner and/or Architect undertake to investigate and defend any and all such claims or suits against the Owner, Architect, Architect's Consultants, and Agents and Employees of any of them. The indemnification obligation under the paragraph shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the Contractor or its subcontractor under Worker's Compensation Acts, Disability Acts, or other Employee Benefit Acts.
- B. Refer to Hold Harmless Agreement, Form 00540-1.

1.03 DISPUTES

- A. Clause 31, disputes paragraph (e), page 10 of 18, shall be changed to read as follows:
" (e) The Contracting Officer's decision shall be final unless the Contractor (1) appeals in writing to a higher level in the PHA/IHA in accordance with the PHA's/IHA's policy and procedures or (2) files suit in a court of competent jurisdiction. Such appeal must be made within thirty (30) days after receipt of the Contracting Officer's decision."

1.04 APPROVED SURETY

- A. No security is required on this project.

1.05 INSURANCE

- A. The types and amounts of insurance to be provided shall be as stated in 00 85 00 CONTRACTOR'S INSURANCE.

1.06 OCCUPATIONAL SAFETY & HEALTH ACT

- A. Each Contractor and all subcontractors are hereby reminded that this project is subject to the procedures and regulations of the Williams-Stegler Occupational Safety & Health Act, current edition with pertinent amendments.
- B. Each Contractor and all subcontractors are further reminded that the implementation of the procedures and regulations pertaining to the above-mentioned act are his complete responsibility. Neither the Owner, nor the Architect, shall be responsible for enforcement violations thereof, or the legal consequences resulting from violations thereof.

1.07 CODES

- A. All work on this project shall be in accordance with all applicable federal, state and local codes and regulations having jurisdiction over this project.

1.08 CONTRACT DOCUMENTS

- A. Where a deviation from the Contract Documents is permitted by the Architect with regard to any portion of the services, materials, labor and/or equipment required for the work, such permission shall not be construed to be a precedent for the handling of any subsequent interpretation or application of the provisions of the Contract Documents.
- B. All portions of the Contract Documents are intended to cooperate and agree. If the Drawings disagree within themselves or with the Specifications, the better quality or greater quantity of work or materials shall be estimated upon and, unless amended in writing, shall be provided. Any discrepancy between portions of the Contract Documents shall be brought to the Architect's attention. The Architect will provide a written interpretation or resolution which will become part of the Contract Documents.
- C. Anything shown on the Drawings and not mentioned in the Project Manual or vice versa must be furnished by the Contractor without extra compensation. Furthermore, if any materials or work is required which is absolutely necessary to carry out the full meaning and intent of the Drawings and Specifications, the Contractor hereby agrees to consider and allow for the same as fully as if they are so noted and to perform the work without extra charge or claim for extra compensation.
- D. The Contractor is not to scale the Drawings to establish an intended dimension or to presume any dimension not given. However, if a conflict exists between the drawing scale and the noted dimension, generally the written dimension shall govern. Any discrepancy related to drawing scale and dimensions, or any missing dimensions, shall be brought to the Architect's attention for resolution.
- E. The Specifications are, in part, of the brief or "streamlined" type and include incomplete sentences. Words "as per" shall mean "in accordance with". Words "shall" or "shall be" are inferred where a colon(:) is used within a sentence or phrase. Words "provide" and "work" shall mean furnish, install and connect up complete, in operative condition and ready for use, all materials, equipment, apparatus and required appurtenances of the particular item to which it has reference. Whenever the words "approved", "satisfactory", "directed", "submitted", "inspected", or similar words or phrases are used, it shall be assumed that the word "Architect" follows the verb as the object of the clause, such as "approved by the Architect" and "submitted to the Architect".

1.09 CONTRACTOR'S RESPONSIBILITY FOR WORK

- A. Equipment, Final Connections, Etc.: Unless otherwise shown and/or selected, all special furnishings and/or equipment will be furnished and installed by the equipment contractor. Each equipment vendor shall furnish all switches, outlet boxes, trim, safety devices, tail pieces, etc., unless specifically noted otherwise. Unless otherwise noted, the Contractor will bring services to indicated locations and make final connections to all equipment, and this will include labor and material from the rough-in location to tail pieces, outlet boxes, etc.
- B. Adjustment to Building Conditions: The locations and arrangement of the various parts of the installations are indicated on the Drawings and the parts shall be installed as approximately shown thereon. Any change necessary to pass immovable obstructions shall be made by the Contractor without additional cost. Under no circumstances shall any sizes be decreased or changes be made in any part of the installation without the written consent of the Architect.
- C. Anchor Bolts, Sleeves, Etc.: Where any equipment to be installed requires anchor bolts or frames to be cast in concrete, these shall be furnished by the respective subcontractor whose equipment requires same for other trades to install. The equipment subcontractor shall coordinate such anchor installations to insure proper positioning.

Each subcontractor to install steel pipe or sheet metal sleeves at all locations where their installation will require the penetration of a concrete or masonry wall, floor or roof structure.

Where such installations penetrate a wall, floor or roof which is fire rated, subcontractor is to provide a fire-stopping assembly approved for use for items scheduled to penetrate the structural assembly. Where portions of the fire-rated assembly or any sleeves are required to

be set or cast-in-place by another trade, the aforementioned subcontractor to provide all required materials and coordinate the layout and installation of these materials.

- D. Lifting Devices and Hoisting Facilities: Each subcontractor shall provide his own cranes, hoists, towers, and other lifting devices necessary for the proper and efficient movement of his materials; provide qualified operating personnel for equipment as required; provide equipment with proper guys, bracing and other safety devices as required by federal, local or state codes; and remove towers and hoisting equipment when they are no longer needed.
- E. Barricades and Warnings: Each Contractor shall construct and maintain all barricades as required to provide protection to the public and to the work. Danger signals, warning signs, red flags, lanterns and lights shall be provided and maintained as needed. All the above shall comply with all applicable codes and ordinances.
- F. Temporary Bracing: At all times during the construction and/or erection of the project and/or its component parts, prior to the completion of the structural frame of this project and/or the placement and permanent connection of the component members of the structural frame, each contractor shall provide, install and maintain properly designed and constructed temporary bracing of adequate strength to prevent dislocation, distorting, cracking, falling of, or any other damage to their work on the project and/or its component parts due to excessive wind forces.
- G. Lead Paint: No lead-based paint shall be used on this project, and no new material or product that contains lead-based paint shall be used on this project.

Per EPA regulations, in all renovation, repair, and painting jobs on pre-1978 housing and child-occupied facilities, Contractor must be certified by the EPA to conduct lead-based paint activities and renovations and utilize lead-safe work practices.

- H. Asbestos Materials: No asbestos or asbestos-containing materials or products shall be used on this project. Further, the Architect and/or the Owner shall have the right to demand from the Contractor, subcontractor, material supplier and/or manufacturer a dated, signed and notarized certification stating that the building product contains no asbestos materials. Failure or refusal on the part of the Contractor, subcontractor, material supplier or manufacturer to furnish said certification shall be just cause to withhold future payments or release of retainage to the Contractor.
- I. Cleaning Up: In addition to the requirements of the General Conditions, the General Contractor shall do the following cleaning for all trades at the completion of the work in accordance with Section 01 34 00 CUTTING AND PATCHING and Section 01 74 00 CLEANING.

Cleanup shall be accomplished in all areas of work and in areas affected by the work as described herein and in Contract Documents.

In order to protect residents during the construction process, the Contractor shall clean the site at the conclusion of each work day and render same free from debris and construction materials not incorporated in the work.

1.10 MATERIAL AND WORKMANSHIP

- A. Specified Products: Products are generally specified by ASTM or other referenced standard, and/or by manufacturer's name and model number or trade name. When specified only by reference standard, the Contractor may select any product or manufacturer as specified as being equally acceptable. The Contractor has the option of using any product and manufacturer combination listed. (When only one product and manufacturer is specified, this is the basis of the Contract, without substitution or exception). Where "or equal" or "or equal as approved by the Architect" or "Architect approved equal" is used in the Specifications, it shall mean that, prior to using the product on the project, it has been approved by the Architect in writing through the same process described for substitutions.
- B. Color Selection: Unless the precise color is specifically described in the Contract Documents, whenever a choice of color is desired, submit accurate color charts and samples to the Architect for review and selection.

- C. Availability of Specified Items: Verify, prior to bidding, that all specified items will be available in the time table required for orderly and timely installation so as not to impede the progress of the work. In the event specified item or items will not be available, so notify the Architect a minimum ten (10) working days prior to receipt of bids
- D. Sales Tax Statement: All Materials purchased by the Contractor and/or subcontractor for construction, which become affixed to the realty, WILL NOT BE SUBJECT TO STATE SALES TAX.

1.11 SUBSTITUTIONS

- A. The Contract is based on the products, materials, equipment and methods described in the Contract Documents. The Architect will consider proposals for substitutions for materials, equipment and methods only when such proposals are accompanied by full and complete technical data and all other information required by the Architect to evaluate the proposed substitutions.
- B. Do not substitute materials or methods, unless such substitution has been specifically approved for this work by the Architect in writing. Such requests for submittals and substitutions must be submitted in time for Architect to evaluate – a minimum ten (10) working days prior to bid due date. After bid award, product substitutions will be allowed as per section 01 60 00 SUBSTITUTIONS.

1.12 WARRANTIES AND GUARANTEES

- A. Each Contractor shall guarantee his work for a period of one (1) year from the date of Substantial Completion except where a longer guarantee is specified. Neither the final certificate of payment nor any provision in the Contract Documents shall relieve the Contractor of responsibility for negligence, faulty material or workmanship within the extent and period provided by said guarantees or by law, whichever is longer.
- B. The guarantee period shall begin on the date of substantial completion of the project as identified on the "Certificate of Substantial Completion" (AIA G704, latest edition). The Contractor's guarantee for construction shall be submitted to the Architect for the Owner on the Contractor's company letterhead in the form prescribed by the Architect.
- C. Refer to individual specification sections for additional guarantee requirements which act in conjunction with the Contractor's guarantee.

1.13 PERMITS AND FEES

- A. As required by federal, state, or local codes and/or ordinances, each Contractor shall pay all costs for permits and fees required for their respective trades, and include such costs in their bids. Each bidder shall be responsible for contacting the local governing agency for such cost information. No work shall be started until all permits have been obtained and all costs and fees have been paid. The Owner will provide any state approvals required for the project unless noted otherwise in the Contract Documents.

1.14 PROJECT SUPERINTENDENT

- A. The project superintendent shall be satisfactory to the Owner; thus, the Contractor shall assign a superintendent only after the Owner has reviewed the superintendent's qualifications, is aware of who the superintendent will be and approves of such. A change in the superintendent can occur only after written authorization of the Owner.

1.15 PROGRESS SCHEDULE

- A. The General Contractor shall provide a progress schedule (such as bar chart) for Architect's review and shall update same as required throughout the course of the project. The Contractor shall generally conform to the most recent schedule.

1.16 ADJUSTMENTS TO THE CONTRACT

- A. In accordance with Clause 29; paragraph (f), item (3) of the General Conditions: The Contractor may include an equitable percentage of profit in his proposal for changes to the

Contract Price, but in no case shall the profit requested exceed the following, unless the Contractor demonstrates entitlement to a higher percentage:

Indirect

	Cost	Profit	Commission
To Contractor on work performed by other than its own forces	0%	0%	10%
To first tier subcontractor on work performed by its subcontractor	0%	0%	10%
To Contractor and/or the sub-contractor for that portion of the work performed with their respective forces	To Be Negotiated 5% Max	10%	0%

- B. Not more than four percentage points will be allowed regardless of the number of tier subcontractors. The Contractor shall not be allowed a commission on the commission received by first tier subcontractor.

1.17 INDIANA SALES TAX

- A. This Project is tax exempt. The successful bidder will be furnished with the PHA Tax Exempt Number for purchasing of materials pertaining to this project.

1.18 LIQUIDATED DAMAGES

- A. The Contractor is responsible for completing the project within the time established in the Construction Contract as stipulated in Article 3 unless time extensions are authorized by the Architect and the Owner and documented via executed Change Order. If the work is not completed by the Contract Date, the Contractor shall be liable for liquidated damages resulting from such unexcused delays.
- B. Liquidated damages shall be assessed at a rate not to exceed \$200.00/per day for each calendar day the Contract Time exceeds that set forth in Article 3 of the Agreement. These liquidated damages are payable to the Owner on demand and the Owner may, at its option, be paid from any retainage owed to Contractor on the job, whether held in escrow or not, or retain the amount of such damages from any additional payments which Contractor is otherwise entitled to receive under this Agreement.
- C. Liquidated damages shall reflect monetary losses by Owner as a result of the failure by Contractor to complete the work by the Contract Date related to the daily cost to relocate some of the residents. The Architect will review the total amount of liquidated damages being assessed and will advise both Owner and Contractor as to his opinion whether the amount of damages established by the Owner is reasonable.
- D. Contractor agrees that the maximum liquidated damages amount established herein is reasonable. Contractor further agrees that it will pay assessed liquidated damages to Owner upon request together with Owner's costs of collection, including but not limited to its attorney's fees and expenses.
- E. When a change in Contract Time is approved which was the result of a delay caused by the Contractor, or by his failure to act on a timely basis or subcontractors actions, he shall have no claim against the Owner or Architect for an increase in the Contract Sum, nor a claim against the Owner or Architect for a payment or allowance of any kind for damage, loss or expense resulting from such delay. The only remedy available to the Contractor shall be the

aforementioned modification of Contract Time.

1.19 PRE-CONSTRUCTION CONFERENCE

- A. A pre-construction conference will be scheduled within fifteen(15) working days after official notification of the Contract Award.
- B. In addition to the bond requirements noted under 00 21 00 SUPPLEMENTAL INSTRUCTIONS TO BIDDERS, paragraph 5, at the time of the pre-construction conference, the Contractor shall submit one original and one copy of each of the following to the Owner:
- _____ Hold Harmless Agreement.
 - _____ Equal Employment Opportunity Certification.
 - _____ Certificate of Insurance for Contractor and all subcontractors and their sub-subcontractors.
 - _____ Three (3) copies of Contractor's Section 3 recruitment plan and supporting information.
 - _____ Notice of Nondiscrimination.
 - _____ Contractor's Notification of Subcontracts Awarded.
 - _____ Certificate from Contractor Appointing Officer or Employee to Supervise Payment of Employee.
 - _____ Contractor's Certification Concerning Equal Employment Opportunity Requirements.
 - _____ Request for Acceptance of Subcontractor (one for each subcontractor and sub-subcontractor).
 - _____ Non-Collusive Affidavit for Subcontractor and their sub-subcontractors (one for each subcontractor and sub-subcontractor).
 - _____ Schedule of Construction (bar graph preferred, 3 copies).
 - _____ Schedule of Amounts for Contract Payments (AIA G703). The Contractor shall submit to the Architect a schedule of values allocated to the various portions of the work, prepared on AIA G703 and supported by such data to substantiate its accuracy as the Architect may require. This schedule, unless objected to by the Architect, shall be used only as a basis for the Contractor's applications for payment.

1.20 PAYMENTS AND COMPLETION

- A. On or about the fifteenth day of each month (or as agreed upon by all parties at the Pre-Construction Conference), the Owner will pay to the Contractor ninety percent (90%) of the value of all work performed and all materials suitably stored on the site, up to the first day of the previous month less the aggregate of previous payments. No payments will be made for materials stored off site. In order to be considered timely, Contractor shall submit copies of the following to Architect, unless noted otherwise, no more than four (4) working days after the first day of the month:
- _____ Three (3) copies of invoice utilizing latest revised edition of AIA Documents G702 and G703 (sample on page 00 62 00-22 and 00 62 00-23).
 - _____ Three (3) sets of Form CC-257 Monthly Employment Utilization Report (sample on pages 00 62 00-20 and 00 62 00-21).
 - _____ Three (3) copies of Contractor's Invoice Form (at Contractor's option).
 - _____ Three (3) copies of Contractor's Certification as required by Paragraph 27(e) of General Conditions for Construction Contracts (sample on page 00 62 00-24).
 - _____ Three (3) copies each of partial waivers of lien from Contractor for the current month's pay request and all subcontractors for the previous month's payment.
 - _____ Three (3) copies of Contractor's Section 3 recruitment report and supporting information.

- B. The following forms shall be completed weekly and forwarded to the Owner:
1. Two (2) sets of either Form WH-348 Statement of Compliance (sample on pages 00 62 00-13 thru 00 62 00-14) for computer payroll systems, or two (2) set of U.S. Department of Labor Form WH-347 Payroll Form (sample on pages 00 62 00-15 thru 00 62 00-17) for manual payroll systems.
- C. After final inspection and acceptance of the work by the Architect and the Owner, the Contractor shall submit for final payment. Final payment will be paid sixty (60) days after the following close-out documents are received:
- _____ Three (3) sets of Final Request for Payment, AIA Documents G702 and G703 (sample on pages 00 62 00-22 thru 00 62 00-23).
 - _____ Three (3) copies each of final waivers of liens from Contractors and all subcontractors.
 - _____ Three (3) copies of Contractor's Certification as required by Paragraph 27(e) of General Conditions for Construction Contracts (sample on page 00 62 00-24).
 - _____ Three (3) copies of Affidavit of Completion (refer to page 00 64 00-1).
 - _____ Three (3) copies of Contractor's Certificate of Guarantee (refer to page 00 64 00-2)
 - _____ Three (3) copies of Contractor's Letter of Release (refer to page 00 64 00-3).
 - _____ Three (3) copies of Consent of Surety Company to Final Payment (refer to page 00 64 00-4).
 - _____ Three (3) copies of Form of Contractor's Certificate and Release (refer to pages 00 64 00-5 and 00 64 00-6).
 - _____ Three (3) copies of all manufacturer's warranties.
 - _____ Three (3) sets of all operation/maintenance manuals.
 - _____ Three (3) copies of record drawings ("as-builts").
 - _____ Signed receipt (by Owner) indicating all "attic stock" material has been received by Owner. See item 1.27 below.
 - _____ Three (3) copies of letter from local building department stating that all permits are closed that relate to this work. (NOTE: If no permit was required, Contractor must submit a letter from the local building department stating that no permit was required.)
 - _____ Three (3) copies of final Section 3 report, indicating total amount paid to each Section 3 resident.

1.21 LIENS

- A. The Contractor and subcontractors are prohibited from placing a lien on the PHA property.
- B. Partial lien waivers must be submitted with each Periodical Estimate showing proof of payment for labor and materials. A final lien waiver is required upon completion of payment to same. All lien waivers must be submitted in original form with notarized signatures.

1.22 RETAINAGE

- A. The Retainage withheld shall be 10%. When the project is 50% complete, the Contractor may request that no future retainage be withheld. If, in the opinion of the Architect/Engineer, the Contractor's work has been satisfactory to date, this request will be approved.

1.23 OFF-SITE STORAGE

- A. The Owner shall not pay for any materials which are stored off the site.

1.24 BUY AMERICAN

- A. Contractor shall, wherever possible, follow the "Buy American" regulations as set forth by HUD in Section 1605 of the Recovery Act.

1.25 SECTION 3 IMPLEMENTATION

- A. The work to be performed under this contract is on a project assisted under a program providing direct Federal financial assistance from the Department of Housing and Urban Development and is subject to the requirements of Section 3 of the Housing and Urban Development Act of 1968, as amended, 12 U.S.C. 1701u. Section 3 requires that to the greatest extent feasible, opportunities for training and employment be given to lower income residents of the area of the Section 3 covered project, and contracts for work in connection with the project be awarded to business concerns which are located in, or owned in substantial part by persons residing in the area of the Section 3 covered project.
- B. The parties to this contract will comply with the provisions of said Section 3 and the regulations issued pursuant thereto by the Secretary of Housing and Urban Development set forth in 24 CFR Part 135, and all applicable rules and orders of the Department issued thereunder prior to the execution of this contract. The parties to this contract certify and agree that they are under no contractual or other disability which would prevent them from complying with these requirements.
- C. The Contractor will send to each labor organization or representative of workers with which he has a collective bargaining agreement or other contract or understanding, if any, a notice advising the said labor organization or workers' representative of his commitment under this Section 3 clause and shall post copies of the notice in conspicuous places available to employees and applicants for employment or training.
- D. The Contractor will include this Section 3 clause in every subcontract for work in connection with the project and will, at the direction of the applicant for or recipient of Federal financial assistances, take appropriate action pursuant to the subcontract upon a finding that the subcontractor is in violation of regulations issued by the Secretary of Housing and Urban Development, 24 CFR Part 135. The Contractor will not subcontract with any subcontractor where it has notice or knowledge that the latter has been found in violation of regulations under 24 CFR Part 135 and will not let any subcontract unless the subcontractor has first provided it with a preliminary statement of ability to comply with the requirements of these regulations.
- E. Compliance with the provisions of Section 3, the regulations set forth in 24 CFR Part 135, and all applicable rules and orders of the Department issued thereunder prior to the execution of the contract, shall be a condition of the Federal financial assistance provided to the project, binding upon the applicant or recipient, its contractors and subcontractors, its successors, and assigns to those sanctions specified by the grant or loan agreement or contract through which Federal assistance is provided, and to such sanctions as are specified by 24 CFR Part 135.
- F. The Contractor will complete the "Statement of Compliance Certification" prior to beginning the project. A copy of the statement is included in this Specification.

1.26 RECORD DRAWINGS/OPERATION & MAINTENANCE MANUAL

- A. At the completion of the project, each Contractor shall submit three (3) sets of prints which have been marked in red to indicate all changes made which deviate from the original Contract documenting construction.
- B. The Contractor shall furnish a minimum of three (3) complete sets of operation/maintenance manuals to the Architect for Owner's use. See Section 01 72 00 PROJECT RECORD DOCUMENTS for further requirements.

1.27 PROGRESS MEETING

- A. The Owner may request at will that all principals of performing contractors be gathered in a meeting for the purpose of discussion relating to work progress, coordination of operation delays, clarification, time schedules, etc. Notification will be issued by an authorized person and attendance will be mandatory ... one (1) per every other week (maximum).

1.28 ATTIC STOCK

- A. All opened cartons, paint cans and non-returnable items shall be turned over to the Owner. Also, refer to each Specification section for additional requirements.

END OF SECTION

**SECTION 00 85 00
CONTRACTOR'S INSURANCE**

PART 1 GENERAL

1.01 SCOPE

- A. Contractor shall be required to carry insurance including but not limited to:
 - Workers' Compensation
 - General Liability
 - Automobile Liability
 - Umbrella Liability
 - Aircraft Liability
 - Builder's Risk/Property Insurance
- B. Proof of Carriage of Insurance
 - 1. Certificates of Insurance:
 - a. The Contractor shall submit two (2) certificates of insurance to the Architect. To provide evidence of coverage, utilize the latest edition ACORD Certificate of Insurance Form 25 or Form 25S showing the requisite insurance limits. Insurance shall be placed with satisfactory carriers (Best Rating of A or better) licensed in the state where the work is to be performed, and countersigned by a resident in that state. Certificates are required from Contractor and all subcontractors.
 - b. The Contractor's certificate should specifically reference the project and also show evidence of coverage for explosion, collapse, and underground liability, as well as Independent Contractor's Liability.
 - c. Certificates are to include a statement that the additional insured parties are to be expressly endorsed onto the policy as cancellation notice recipients.
 - d. No work will be performed on the project until the Contractor's certificates of insurance showing the required insurance is in force and until such insurance has been approved by the Owner and Architect.
 - e. The Contractor shall take responsibility for obtaining and submitting subcontractors' certificates of insurance evidencing the same coverage and limits of liability required of the Contractor prior to the subcontractor beginning work on the project.
 - 2. Notice Upon Renewal: When renewing insurance coverage during the course of the project, it will be the Contractor's responsibility to provide the Owner with written certification 15 days prior to the policy expiration date. The Contractor shall provide the Architect with a copy of a Binder of Insurance listing coverage limits and any endorsements. Allowing the insurance to expire constitutes negligence on the part of the Contractor and shall be grounds for the Owner to immediately stop the work. Furnish copies of any endorsements that are subsequently issued amending coverage or limits.
 - 3. Term of Insurance Coverage: All insurance shall be maintained in full force and effect until the work has been fully and completely performed and shall remain in effect for a period of one (1) year from date of Substantial Completion.

1.02 CONTRACTOR'S INSURANCE

- A. All such policies and insurance will name the Owner and Architect as additional insured parties as pertains to work performed at the site, and certificates endorsing the same shall be forwarded to each party. Contractor's insurance shall be primary and contractor's policies and certificates of insurance shall include such language.
- B. The types and amounts of insurance to be provided for by the Contractor shall be adequate for the project. However, the following are minimums unless agreed to in writing by both the Owner and Architect:
 - 1. Worker's Compensation Insurance:
 - a. The Contractor shall provide worker's compensation and occupational disease insurance including employer's liability. Such policy shall specifically include coverage in the state in which the work is to be performed. The employer's liability

limit shall be a minimum of:
\$100,000 Each Accident
\$500,000 Policy Limit
\$100,000 Each Employee

The Worker's Compensation policy shall contain the following endorsement, unless specifically prohibited by compensation insurance authorities having jurisdiction:

"Whereas, Contractor may undertake to perform work for the Owner, and whereas, said Owner may exercise some degree of jurisdiction or control over the employees of Contractor engaged in such work, it is agreed that, subject to the conditions and limitations of this policy, said Owner is named as an additional insured employer under this policy, but only as respects employees of Contractor whose names appear on the payroll records of Contractor while performing such work for said company."

2. General Liability Insurance:
 - a. The Contractor shall maintain a commercial general liability form of insurance with minimum limits (or higher limits if required by the umbrella liability carrier to satisfy underlying requirements) of:
 - \$2,000,000 General Aggregate (Per Project Aggregate Endorsement)
 - \$2,000,000 Products/Completed Operations Aggregate
 - \$1,000,000 Personal & Advertising Injury
 - \$1,000,000 Each Occurrence
 - b. General Liability Insurance to include Owner and Architect as additional insured, including products/completed operations, on a primary/non-contributory basis. This additional insured coverage to be provided under ISO CG 20 10 11/85 or an equivalent endorsement.
 - c. The policy shall include:
 - 1) Contractor's operations coverage,
 - 2) Independent contractor's protective liability on a "blanket" basis to cover the operations of any Subcontractor,
 - 3) Completed operations coverage,
 - 4) Blanket broad form contractual liability coverage shall be obtained specifically to include coverage for the "hold harmless" clause contained elsewhere in the Contract, and evidence of this coverage shall appear on the certificate (Contractual Liability Coverage at least as broad as coverage provided under ISO CG 00 01 12/07),
 - 5) Personal injury liability including employees,
 - 6) Broad form property damage liability including completed operations (to be specifically noted on the certificate), and
 - 7) Explosion, collapse, and underground liability.
3. Automobile Liability Insurance:
 - a. Contractor shall maintain comprehensive automobile liability insurance with minimum limits of \$1,000,000 (Combined Single Limit) BI/PD each accident. The automobile liability insurance must include coverage for all owned, non-owned, and hired automobiles.
4. Umbrella Liability Insurance:
 - a. An umbrella policy shall be furnished in the minimum amount of \$5,000,000 per occurrence with a \$5,000,000 aggregate limit.
5. Aircraft Liability Insurance:
 - a. If any aircraft is to be used by the Contractor in connection with this Contract either as a conveyance to or from the location of the job site or for use in the course of construction, liability insurance in amounts acceptable to the Owner shall be obtained by the Contractor, and this liability coverage shall be shown on the insurance certificate.
6. Builder's Risk/Property Insurance:

- a. The Contractor shall maintain "All Risk" insurance (Builder's Risk Completed Value Form Insurance) which shall include, but not be limited to, fire, lightning, extended coverage perils, vandalism and malicious mischief, collapse, water damage from bursting pipes, and theft of building materials from the job site upon the modernization which is the subject of this Contract. Coverage shall extend to materials stored off-site or in route to the site, purchased solely for the project.
- b. Coverage shall include items of labor and materials connected therewith whether in or within 100 feet of the structure insured, materials in place or to be used as part of the permanent construction, including surplus materials, protective fences, bridges, temporary structures, miscellaneous materials and supplies incidental to the work, and such scaffolding, staging, towers, forms, and equipment which is not owned or rented by the Contractor, the cost of which is included in the cost of the work.
- c. The Contractor shall provide insurance coverage for portions of the work stored off-site and also for that portion of the work in transit that is not covered by the Builder's Risk policy. The Owner and Contractor waive all rights against each other for damages caused by the perils covered by such insurance.
- d. Furthermore, it is the Contractor's responsibility to insure himself against those claims for theft, vandalism and other such items which are not covered in the Builder's Risk Policy. Each Contractor shall at his own expense insure himself against claims for the theft and vandalism of materials and equipment including items owned, leased or borrowed, stored on the site in trailers, buildings, etc., which are not intended to become a permanent part of the work.
- e. The policy shall insure the Owner and shall also include the interest of the Contractor, subcontractors, and sub-subcontractors during the course of construction until completed and accepted by the Owner.
- f. Loss, if any, is to be adjusted both with and payable to the Owner as trustee for the insured parties as their interest may appear, except in such cases as may require payment of all or a portion of such insurance to be made to the mortgagee, as his interest may appear. The Contractor shall pay any deductibles.
- g. Exclusions: The insurance does not cover any tools owned by mechanics or any tools, equipment, scaffolding, staging, towers, and forms owned or rented by the Contractor (the capital value of which is not included in the cost of the work) or Contractor's sheds or other structures that are erected for housing the workmen.
- h. Subrogation Clause: It is hereby stipulated that this insurance shall not be invalidated should the insured waive in writing prior to a loss any and all such rights of recovery against any party for any loss occurring to the property described herein.

END OF SECTION

DIVISION I
General Requirements

**SECTION 01 10 00
SUMMARY OF WORK**

PAT 1 GENERAL

1.01 SCOPE

- A. The scope of work includes providing all labor, tools, equipment, materials and supervision necessary to complete the work as follows:
Replacement of generators for the Riverside and Waterfall High-Rises.

1.02 JOB REQUIREMENTS

- A. The requirements set forth in Division 0 (Bidding and Contract Requirements) shall apply to all Contractors and/or Subcontractors.
- B. Throughout the body of the documents, the terms "General Contractor", "Contractor", "Subcontractor", etc., are used, and these terms shall indicate general and specific areas of responsibility. No "request for extra" will be entertained from any Contractor which arises out of interpretation of this language. The work will be bid and pursued under one (1) General Construction Contract.
- C. Products not specified but meeting the specifications may be incorporated in the work provided they are approved in advance by the Architect.
- D. Throughout the body of the specifications, from time to time, work required in one section and/or division of work is referred to from another section and/or division of work. All bidders are required to refer to all divisions of these specifications.
- E. The Contractor shall notify the Architect of the existence of any discrepancies found between the information contained in these plans and specifications and actual field conditions. Notification shall be in writing seven (7) business days prior to the Initiation of Work. Failure to do so indicates acceptance by the Contractor of the information listed.
- F. This Manual was prepared in accordance with U.S. Department of Housing and Urban Development (HUD) Notice PIH 88-27 (PHA), issued September 21, 1988 and HUD regulations in effect as of this date, 24 CFR Parts 35 and 965 (sub part H), and all work shall be performed to meet these regulations.

1.03 SPECIAL REQUIREMENTS

- A. All work, except as noted otherwise, may be performed from 8:00 a.m. to 5:00 p.m. Exterior work may be performed from dawn to dusk.
- B. Work will be conducted in and around occupied residential buildings. The Contractor shall make every effort to keep public areas clean, safe, free of obstructions, avoid undue noise, take all necessary precautions and be responsible for the protection of the residents and their property during the course of the project.
- C. At the end of each day, all work that can be completed shall be complete prior to leaving; remove all waste material, e.g. boxes, packing, debris, etc., and leave the area broom clean.
- D. Nails, screws, sheet metal cut-offs and other sharp material shall be cleaned up regularly during the work. No such material shall remain at the end of the day.
- E. Parking arrangements shall be arranged with the Housing Authority prior to initiation of work. If deemed necessary, construction vehicles may be required to park off site.

1.04 SEQUENCE OF CONSTRUCTION

- A. The Contractor will submit a work schedule and coordinate with the Owner, to provide notification of residents four days prior to beginning work.

END OF SECTION

**SECTION 01 22 00
ALLOWANCES**

THE FOLLOWING CASH ALLOWANCES WILL BE INCLUDED IN THE BASE BID. LABOR (UNLESS NOTED OTHERWISE) FOR HANDLING, UNLOADING, INSTALLATION, OVERHEAD, PROFIT AND OTHER EXPENSES CONTEMPLATED FOR THE STATED ALLOWANCE AMOUNT SHALL BE INCLUDED IN THE CONTRACT SUM AND NOT IN THE ALLOWANCE.

1.01 GENERAL REQUIREMENTS

An allowance amount shall be included in the base bid. This amount shall include labor and materials necessary to complete work of an undetermined scope but which is anticipated due to the requirement that new work be modified to meet existing, indeterminable conditions.

Nothing in this allowance shall be construed to relieve Contractor of the responsibility to review the site of the proposed work and verify existing conditions. No approvals will be granted to utilize this allowance amount to compensate for contractor's lack of knowledge of conditions which are observable at the site. \$5,000.00

END OF SECTION

**SECTION 01 23 00
ALTERNATES**

THE CONTRACTOR SHALL STATE THE AMOUNT THAT SHALL BE ADDED TO OR DEDUCTED FROM THE BASE BID FOR EACH OF THE FOLLOWING ALTERNATES. ALL ALTERNATES SHALL INCLUDE LABOR, MATERIAL, EQUIPMENT, AND SUPERVISION FOR SPECIFIC WORK.

VOLUNTARY ALTERNATES

3.01 CONTRACTOR IS ENCOURAGED TO SUBMIT VOLUNTARY ALTERNATES FOR PROCEDURES, MATERIALS OR EQUIPMENT THAT PRODUCE SAVINGS FOR THE OWNER. EACH VOLUNTARY ALTERNATE IS TO BE ACCOMPANIED BY NECESSARY BROCHURES, SHOP DRAWINGS, ENGINEERING, ETC., FOR THE ARCHITECT'S AND OWNER'S USE IN EVALUATING SUCH ALTERNATES. THE OWNER MAY AWARD CONTRACTS TAKING INTO ACCOUNT ANY AND ALL VOLUNTARY ALTERNATES RECEIVED. ANY VOLUNTARY ALTERNATE SUBMITTED MAY BE USED TO THE BENEFIT OF THE OWNER EVEN THOUGH THE BIDDER SUBMITTING THE ALTERNATE MAY NOT BE AWARDED THE CONTRACT.

END OF SECTION

**SECTION 01 33 00
SUBMITTALS**

PART 1 GENERAL

1.01 REQUIREMENTS

- A. Contractors and subcontractors that are required to submit information shall submit the following:
 - 1. Drawings: Minimum four (4) sets of prints. Two (2) will be returned.
- B. Product Information: Minimum four (4) complete sets of all the manufacturers' literature, data and/or catalog cuts pertaining to the item(s) to be used and the item(s) highlighted. Two (2) will be returned.
- C. In lieu of paper submittals, Contractor may elect to deliver submittals electronically, in the form of .PDF files. If this option is selected, one (1) file shall be submitted per required Specification section, Drawing, or product information literature, data and/or catalog cut sheet. Upon review, Architect or Consultant will return a reviewed file to the Contractor. Contractor shall be responsible for distribution to office, field and subcontractors. Submittals requiring physical samples shall have samples delivered under separate cover to the Architect for review.
- D. The Contractor shall prepare, review and stamp with their approval all submittals before sending them to the Architect for review. Any submittals forwarded to the Architect without such review and approval will be returned without review. Also, submittals found to be "rubber stamped" without actual review by the Contractor but with clear and obvious errors will be similarly returned without review by the Architect.
- E. Contractors and subcontractors submitting drawings and/or product information shall allow fifteen (15) working days processing time for the Architect to review and return such submittals. The Architect will not be held responsible for delays in construction resulting from the Contractor and subcontractor being required to resubmit drawings and/or product information. Contractors and subcontractors shall correct and return to Architect submittals marked either "Note Markings", "Resubmit", "Rejected", or "Not Reviewed" within fifteen (15) calendar days.
- F. Contractor shall take the following action for each respective marking:
 - 1. **NO EXCEPTIONS TAKEN** - Copies may be distributed.
 - 2. **NOTE MARKINGS/RESUBMIT** - Contractor may proceed with fabrication, taking into account the necessary corrections. Corrected shop drawings shall be resubmitted before fabrication of this work is complete to obtain a different action marking. Do not allow drawings marked "Resubmit" to be used in connection with installation of the work.
 - 3. **NOTE MARKINGS/CONFIRM** - Final but Restricted Release; Contractor may proceed with fabrication, taking into account the necessary corrections on submittal and in conformance with Contract Documents.
 - 4. **REJECTED** - Contractor will be required to resubmit shop drawings in their entirety. No fabrication or installation shall be started until shop drawings so marked have been completely revised, resubmitted, and marked by Architect.
 - 5. **NOT REVIEWED** - Products not as specified; or substitution submittal without justification; or submittal not required.
- G. Material Safety Data Sheets are not acceptable submittals. Any product submitted which does not match the Specification will be rejected unless it is accompanied by a proper Substitution Request as outlined in Section 01 60 00 SUBSTITUTIONS.
- H. Submittals not requested by the Architect shall be returned without action.

END OF SECTION

**SECTION 01 34 00
CUTTING AND PATCHING**

PART 1 GENERAL

1.01 RELATED REQUIREMENTS SPECIFIED ELSEWHERE:

- A. Section 01 10 00 SUMMARY OF WORK.

1.02 EXECUTE CUTTING, INCLUDING EXCAVATING, FITTING AND/OR PATCHING OF WORK REQUIRED TO:

- A. Make several parts fit properly.
- B. Uncover work to provide for installation of ill-timed work.
- C. Remove and replace defective work.
- D. Remove and replace work not conforming to the requirements of the Contract Documents.
- E. Remove samples of installed work as specified for testing.
- F. Install specified work in existing construction.

1.03 ARCHITECT'S ACCESS:

- A. In addition to the Contract requirements, the Contractor shall, upon written instructions from the Architect, uncover work to provide for the Architect's observation of covered work, remove samples of installed materials for testing and remove work to provide for alteration of existing work.

1.04 CUTTING AND PATCHING:

- A. The Contractor shall be responsible for any cutting, fitting and patching that may be required to complete his work, except as otherwise specified.

1.05 SUBMITTALS:

- A. Prior to cutting that affects the structural safety of the project or work of another subcontractor, submit written notice to the Architect requesting consent to proceed. The notice shall include:
 - 1. Identification of the project.
 - 2. Description of the affected work.
 - 3. Necessity for cutting.
 - 4. Affect on other work and/or structural integrity.
 - 5. Description of the proposed work designating the scope of cutting and patching, the Contractor and trade to execute the work, products proposed for use, and the extent of refinishing.
 - 6. Alternatives to the proposed cutting and patching.
 - 7. Designation of party responsible for cost of cutting and patching.
- B. Prior to cutting and patching done on the instructions of the Architect or the Owner, submit cost estimate.
- C. Should conditions of work or schedule indicate a change of materials or methods, submit a written recommendation to the Architect stating the conditions necessitating the change, recommendations for alternative materials or methods, and submittals as required for substitutions.
- D. Notify the Architect in writing when covered work will be uncovered for observations.

1.06 PAYMENT OF COSTS:

- A. Costs incurred as a result of ill-timed or defective work, or work not conforming to the requirements of the Contract Documents, including the costs for additional services of the Architect, shall be the responsibility of the party responsible for the ill-timed or defective work, or the rejected, non-conforming work.
- B. The cost for work done on instructions of the Architect or Owner, other than defective or non-conforming work, will be the responsibility of the Owner.

PART 2 PRODUCTS

2.01 MATERIALS:

- A. Materials for replacement of work removed shall comply with the specifications for that type of work.

PART 3 EXECUTION

3.01 INSPECTION:

- A. Inspect existing conditions of work, including all elements subject to movement or damage during cutting and patching, and excavating and backfilling. After work is uncovered, inspect conditions affecting the installation of new products.

3.02 PREPARATION:

- A. Prior to cutting, provide shoring, bracing and support as required to maintain structural integrity, protection for other portions of the work, and protection from the elements.

3.03 PERFORMANCE:

- A. Execute fitting and adjustment of products to provide a finished installation in compliance with specified tolerances and finishes.
- B. Execute cutting and demolition by methods which will prevent damage to other work and will provide the proper surfaces to receive the new work and installation of repairs.
- C. Restore work which has been cut or removed; installed new products to provide completed work in accordance with the requirements of the Contract Documents.
- D. Refinish (paint) areas patched as necessary to provide a uniform finish.

END OF SECTION

**SECTION 01 50 00
TEMPORARY FACILITIES**

PART 1 GENERAL

1.01 SANITATION, LIGHT, POWER, HEAT AND WATER

- A. Contractor may use water, electric (but not in apartments) and public toilet facilities at each site. The Contractor shall take such means as the Architect may direct to effectually prevent the creation of a nuisance on the work or on any part of the property of the Owner.

1.02 OFFICE, STORAGE AND FACILITIES FOR ARCHITECT'S REPRESENTATIVE

- A. The Contractor shall take charge of the areas of work during construction. Additionally, the Contractor shall provide an office area, at an approved location. This area shall have copies of all correspondence, construction drawings and specifications including all changes, revisions and shop drawings.
- B. Storage sheds and trailers on site may be installed only with prior approval of the Owner. Locate as directed.

1.03 TELEPHONE SERVICE

- A. The Contractor shall provide either a portable telephone (cellular phone) or a telephone at a fixed location on the job during the operations for his own use in the work and the use of all subcontractors engaged in the work. Toll charges will be paid by the persons making the long-distance calls. The superintendent shall carry either a cordless phone or a pager so that he may be contacted any time during working hours.
- B. The Owner and the Architect shall be able to contact the project superintendent at all times during the work day by pager and/or cellular phone.

1.04 DISPOSAL FACILITIES

- A. The Contractor shall provide a dumpster at the project for the duration of the project, located as directed by Owner. Use of the Owner's dumpsters is forbidden. The Contractor may choose to remove all refuse on a daily basis in lieu of providing a dumpster.

1.05 BARRICADES AND WARNINGS

- A. The General Contractor shall construct and maintain all barricades as required to provide protection to the public and to the work. Danger signals, warning signs, red flags, lanterns and lights shall be provided and maintained as needed. All the above shall comply with all applicable codes and ordinances and shall be as approved by the Owner and the Architect.

1.06 STORAGE TRAILERS

- A. The Contractor may provide storage trailers for material storage. Trailers shall be located on site as directed by the Owner.

END OF SECTION

**SECTION 01 60 00
SUBSTITUTIONS**

PART 1 GENERAL

1.01 SCOPE

- A. Refer to Section 00 80 00 SUPPLEMENTARY GENERAL CONDITIONS of these specifications for additional requirements.
1. Contractor is advised that the proposal and subsequent Contract for Construction are based on the products, materials, equipment and methods described in the Contract Documents. The Architect will consider proposals for substitutions submitted more than ten (10) calendar days prior to the bid date and for a limited period of five (5) working days after the Notice to Proceed provided that such proposals are submitted in accordance with stipulations outlined herein.
 2. Proposals for substitutions will be considered only if said proposals increase the quality of the project, decrease the expenditure on the part of the Owner or are clearly superior to the products, materials, equipment, and methods specified herein. Proposals for substitutions which appear to be submitted only to decrease the expenditures on the part of the Contractor without a corresponding proposal for a reduction in the Contract amount will not be entertained. No substitutions will be accepted after the initial period for submittals of such substitutions.
 3. It is the responsibility of the Contractor to verify, prior to bidding, that specified items will be available during orderly and timely progress of the work. No request for an extension of the time of completion will be entertained by the Architect if such an extension is a result of the Contractor's lack of knowledge of the availability of the specified items. If a substitution is proposed resulting from availability problems with specified materials, proposals should also include consideration for modifications to the Contract amount on behalf of the Owner.
- B. All substitution requests shall address the following issues as a minimum for consideration:
1. Provide complete manufacturer's product information as required by Section 01 33 00 SUBMITTALS.
 2. List the specified product which is to be substituted.
 3. If the product is equal to that specified, state the proposed credit to the Owner.
 4. If the product is superior to that specified, explain in detail the advantages as well as any disadvantages.

END OF SECTION

SUBSTITUTION REQUEST FORM

To: _____

Project: _____

We hereby submit for your consideration the following product substitution:

Section	Paragraph	Specified Item
_____	_____	_____

Proposed Substitution: _____

Attach complete technical data for the proposed product, including laboratory tests if applicable.

Include complete information, including changes to drawings and/or specifications which proposed substitution requires for proper installation.

Fill in blanks below; use additional sheets if necessary:

A. Is the substitution product superior to specified?

Yes? In what way? _____

B. Is the substitution product equal to the specified product?

If yes, what is the reduction in Contract amount? \$ _____

C. Is the specified product no longer available?

If yes, explain circumstances: _____

The undersigned states that the function, appearance and quality of the proposed product are equivalent or superior to the specified item.

Submitted By:

Signature

Firm: _____

Address: _____

Telephone: _____

For Use by Design Consultant:

- | | |
|---------------------------------------|--|
| <input type="checkbox"/> Accepted | <input type="checkbox"/> Accepted as Noted |
| <input type="checkbox"/> Not Accepted | <input type="checkbox"/> Received Too Late |

By: _____

Date: _____

Remarks: _____

**SECTION 01 72 00
PROJECT RECORD DOCUMENTS**

PART 1 GENERAL

1.01 SCOPE

- A. Contract Documents:
- B. One complete set of contract documents shall be maintained at the project site upon which all changes, errors and corrections shall be noted.
 - 1. All contractors shall make complete and accurate entries for their respective work. Record documents shall be maintained and submitted in accordance with the following:
 - a. At completion of the project, these shall be brought up to date and the title sheets shall be certified by the Contractor that the information is true and correct.
 - b. Certified documents representing the Contractor shall then be submitted to the Architect for review and disposition. These record documents must be in reproducible form - one set of full sized prints and scans of the same sheets in PDF format.
- C. Approvals: Contractor's project record documents shall be reviewed by the Architect prior to processing final Certificate for Payment.

END OF SECTION

**SECTION 01 74 00
CLEANING**

PART 1 GENERAL

1.01 SCOPE:

- A. Related Requirements: As specified elsewhere:
 - 1. Section 00 80 00 SUPPLEMENTARY GENERAL CONDITIONS.
 - 2. Section 01 10 00 SUMMARY OF WORK.
 - 3. Section 01 34 00 CUTTING AND PATCHING.
 - 4. Cleaning for specific products or work.
 - 5. Specification section for that work.
- B. All cleaning shall be the responsibility of the Contractor unless specifically noted otherwise.
- C. Contractor shall police and clean up on a continuing basis, during his presence in the project, in all areas in which he is performing work; maintain premises and public properties free from accumulation of waste, debris and rubbish.
- D. At the completion of the work, Contractor shall remove waste materials, rubbish, tools, equipment, machinery, and surplus materials, and clean all sight-exposed surfaces. Leave project clean and ready for final cleaning.

1.02 REQUIREMENTS OF REGULATORY AGENCIES:

- A. Maintain project in accordance with Occupational Safety and Health Act, latest edition, as it applies to cleanup.
- B. Conduct cleaning and disposal operations in compliance with local ordinances and anti-pollution laws.
 - 1. Do not burn or bury rubbish and waste materials on site.
 - 2. Do not dispose of volatile waste, such as mineral spirits, oil, or paint thinner, in storm or sanitary drains.

PART 2 PRODUCTS

2.01 MATERIALS:

- A. Use only cleaning materials recommended by manufacturer for surface to be cleaned, and use cleaning materials only on surfaces recommended by cleaning material manufacturer.

PART 3 EXECUTION

3.01 DURING CONSTRUCTION:

- A. Execute cleaning to ensure that the building, grounds, and public properties are maintained free from accumulation of waste and rubbish.
 - 1. Wet down dry materials and rubbish to lay dust and prevent blowing dust.
 - 2. At reasonable intervals during progress of work, clean site and public properties, and dispose of waste materials, debris and rubbish.
 - 3. Provide on-site containers for collection of waste materials, debris and rubbish.
 - 4. Remove waste materials, debris and rubbish from site and legally dispose of at a public or private dumping area off Owner's property.
 - 5. Handle materials in a controlled manner with as few handlings as possible; do not drop or throw materials from heights.
 - 6. Schedule cleaning operations so that dust and other contaminants resulting from cleaning process will not fall on wet, newly painted surfaces.
- B. Final Cleaning: The Contractor shall be responsible for final cleaning.
 - 1. Employ experienced workmen, or professional cleaners for final cleaning.
 - 2. In preparation for substantial completion or occupancy, conduct final inspection of sight-exposed exterior surfaces and of concealed spaces.

3. Remove grease, dust, dirt, stains, labels, fingerprints, and other foreign materials from sight-exposed surfaces; polish surfaces so designated to shine finish.
4. Repair, patch and touch up marred surfaces to specified finish to match adjacent surfaces.
5. Remove all foreign materials from site areas.
6. Broom clean paved surfaces; rake clean other surfaces of grounds.
7. Remove snow and ice from access to building if applicable.
8. Contractor shall be responsible for cleaning all equipment installed.
9. Maintain cleaning until project or portion thereof is occupied by Owner.

END OF SECTION

DIVISION II
Not Used

DIVISION III
Concrete

**SECTION 03 10 00
CONCRETE FORMWORK**

PART 1 GENERAL

1.01 SCOPE

- A. This section specifies formwork and consists of furnishing all labor, equipment and services required for forming all cast-in-place concrete indicated on the Drawings and subsequent removal of all such forms described in this section.
- B. Related Documents: Drawings and general provisions of the Contract, including General Conditions and Division 1 Specification sections, apply to this section.
 - 1. Related Sections:
 - a. Section 03 20 00 CONCRETE REINFORCEMENT.
 - b. Section 03 30 00 CAST-IN-PLACE CONCRETE.
- C. Quality Assurance: Design, fabrication, installation and removal of all formwork shall be in accordance with "Recommended Practice for Concrete Formwork", publication ACI 347 of the American Concrete Institute.

PART 2 PRODUCTS

2.01 FORM MATERIALS AND ACCESSORIES:

- A. All forms shall be wood, metal or other acceptable panel-type materials, unless otherwise specifically approved by the Architect.
- B. Coat steel forms with a non-staining, rust preventative material. Rust-stained steel formwork is not acceptable.
- C. Form ties shall be factory fabricated, adjustable length, snap-off metal form ties, designed to prevent form deflection and to prevent spalling of concrete upon removal. The metal after breaking should be at least 1" from the face of the wall.
- D. Form Release Agent: Non-staining, low toxicity, VOC-compliant, and compatible with indicated finishes and surfaces.
 - 1. Standards:
 - a. Magic Kote, Symons by Dayton Superior.
 - b. Formshield PURE by Euclid Chemical.
 - c. Or similar approved equal.
- E. Formwork bracing and shoring shall be selected by the Contractor consistent with safety requirements and the quality required in the finished work. The Contractor is responsible for the design, safety and serviceability of all formwork.
- F. All other materials, not specifically described but required for proper completion of concrete formwork, shall be as selected by the Contractor subject to the advance approval of the Architect.

PART 3 EXECUTION

3.01 CONSTRUCTION OF FORMS:

- A. Design, erect, support, brace and maintain formwork to support vertical and lateral, static and dynamic loads that might be applied until concrete structure can support such loads. Construct formwork so concrete members and structures are of correct size, shape, alignment, elevation, and position. Maintain formwork construction tolerances complying with ACI 347.
- B. Construct forms to sizes, shapes, lines, and dimensions shown and to obtain accurate alignment, location, grades, level, and plumb work in finished structures. Provide for openings, offsets, sinkages, keyways, recesses, moldings, rustications, reglets, chamfers, blocking, screeds, bulkheads, anchorages and inserts, and other features required in work. Use selected materials to obtain required finishes. Solidly butt joints and provide backup at joints to prevent leakage of cement paste.

- C. Set all required steel frames, angles, grilles, bolts, inserts, and other such items required to be anchored in the concrete before the concrete is placed.
- D. Fabricate forms for easy removal without hammering or prying against concrete surfaces. Provide crush plates or wrecking plates where stripping may damage cast concrete surfaces.
- E. Provide temporary openings where interior area of formwork is inaccessible for cleanout, for inspection before concrete placement, and for placement of concrete.
- F. Chamfer exposed corners and edges as indicated using wood, metal, PVC, or rubber chamfer strips fabricated to produce uniform smooth lines and tight edge joints.
- G. Provisions for Other Trades: Provide openings in concrete formwork to accommodate work of other trades. Determine size and location of opening, recesses, and chases from trades providing such items. Accurately place and securely support items built into forms.
- H. Cleaning and Tightening: Thoroughly clean forms and adjacent surfaces to receive concrete. Remove chips, wood, sawdust, dirt, or other debris just before concrete is placed. Retighten forms and bracing before concrete placement, as required, to prevent mortar leaks and maintain proper alignment.

3.02 REMOVAL OF FORMS:

- A. Forms shall be removed in an approved manner under competent supervision so as to avoid damage to the concrete. Particular care shall be taken to avoid spalling.
- B. General: Formwork not supporting weight of concrete, such as sides of beams, walls, columns, and similar parts of the work, may be removed after cumulatively curing at not less than 50F (10C) for 24 hours after placing concrete, provided concrete is sufficiently hard to not be damaged by form removal operations, and provided curing and protection operations are maintained.
- C. Formwork supporting weight of concrete, such as beam soffits, joists, slabs, and other structural elements, may not be removed in less than 14 days and until concrete has attained at least 75% of design minimum compressive strength at 28 days. Determine potential compressive strength of in-place concrete by testing field-cured specimens representative of concrete location or members.
- D. Form-facing material may be removed 4 days after placement only if shores and other vertical supports have been arranged to permit removal of form-facing material without loosening or disturbing shores and supports.

3.03 REUSE OF FORMS:

- A. Clean and repair surfaces of forms to be reused in work. Split, frayed, delaminated, or otherwise damaged form-facing material will not be acceptable for exposed surfaces. Apply new form-coating compound as specified for new formwork.
- B. When forms are extended for successive concrete placement, thoroughly clean surfaces, remove fins and laitance, and tighten forms to close joints. Align and secure joint to avoid offsets. Do not use "patched" forms for exposed concrete surfaces except as specifically approved by the Architect.

END OF SECTION

**SECTION 03 20 00
CONCRETE REINFORCEMENT**

PART 1 GENERAL

1.01 SCOPE

- A. Furnish all labor, material, equipment and services necessary to complete fabrication and installation of all concrete reinforcement and associated accessories in accordance with the Drawings and herein specified.
- B. Related Documents:
 - 1. Drawings and general provisions of the Contract, including General Conditions and Division 1 Specification sections, apply to this section.
 - 2. Related Sections:
 - a. Section 03 10 00 CONCRETE FORMWORK.
 - b. Section 03 30 00 CAST-IN-PLACE CONCRETE.
- C. Quality Assurance:
 - 1. Codes and Standards:
 - a. "Manual of Standard Practice for Detailing Reinforced Concrete Structures" ACI 315-80.
 - b. "Building Code Requirements for Reinforced Concrete" ACI 318.
 - c. CRSI Manual of Standard Practice.
- D. Submittals:
 - 1. Shop Drawings:
 - a. Prepare shop drawings defining fabrication details and placement. These shop drawings must be approved by the Architect prior to any reinforcement being fabricated or placed.
 - b. Shop drawings will be checked by the Architect for correct interpretation of the Drawings, but this check shall not relieve the Contractor of his primary responsibility to provide the correct number of properly detailed bars in all members.
 - c. Refer to the typical details and general notes on the Structural Drawings. These details and notes provide additional information for the detailer and identify areas where extra reinforcing is required.
 - d. Provide a floor plan for all concrete slabs with the slab reinforcing shown. Do not schedule reinforcing.
 - e. Provide a 1/4" scale elevation of all walls and beams with the reinforcing shown. Do not schedule reinforcing.
 - f. Provide bar bending diagrams for all bent bars.
 - g. Sections through walls, beams and slabs shall be provided showing bar positions and clearances to forms. On wall sections, indicate spacers used to maintain clearances for vertical wall steel. On wall sections, show clearances for vertical wall steel.
 - h. If dowel bar replacement system is used, provide fabrication and installation details with the shop drawing submittal. Provide manufacturer's literature, product samples, and certified test reports verifying compliance with this Specification.
- E. Product Handling:
 - 1. Protection:
 - a. Use all means necessary to protect reinforcing steel before, during and after installation.
 - b. Store reinforcing steel properly to prevent excessive rusting and fouling with dirt, grease and other bond-breaking coatings.

PART 2 PRODUCTS

2.01 STEEL REINFORCEMENT:

- A. All steel reinforcement materials shall comply with the following reference standards:

1. Main Reinforcing Bars: ASTM A615 Grade 60.
 2. Stirrups and Column Tie Bars: ASTM A615 Grade 60.
 3. Wire Reinforcement: ASTM A82.
 4. Welded Wire Fabric: ASTM A185.
- B. Accessories:
1. Provide bar supports, ties, blocking and accessories in accordance with CRSI "Manual of Standard Practice".
 2. Bar supports shall be stainless steel or protected with plastic in contact area. When underneath side of floor is to be exposed and painted, bar supports shall be stainless steel.
- C. Mechanical Butt Splices:
1. Mechanical butt splices shall conform to ACI 318.
 - a. Standards:
 - 1) Lenton Rebar Splicing - Erico.
 - 2) Grip Twist System - Dayton Barsplice, Inc.
 - 3) Cadweld, C-Series - Erico.

2.02 FIBER "MESH" REINFORCEMENT:

- A. Furnish fibrillated polypropylene fibers for reinforcement of concrete where indicated in the Drawings and as specified herein.
1. Polypropylene Fibers: 100% collated fibrillated polypropylene fibers with an average length of 3/4", a minimum specific gravity of 0.9, and a minimum tensile strength of 80 ksi. Polypropylene fibers shall be added to the concrete mix at a rate of 1-1/2 pounds per cubic yard.
 - a. Products; subject to compliance with requirements, provide one of the
 - 1) Fibermesh 300: Propex Concrete Systems, Chattanooga, Tennessee.
 - 2) "Econo-Mono": Forta Corporation, Grove City, Pennsylvania.
 - 3) "Grace Fibers": W.R. Grace & Co.-Conn., Cambridge, Massachusetts.
 2. Fiber reinforcement is to be used in slabs-on-grade and in exterior concrete walks in addition to welded wire mesh.

PART 3 EXECUTION

3.01 STEEL REINFORCEMENT:

- A. Fabrication: Fabrication of steel reinforcement shall comply with the requirements of ACI 318, ACI 315 and CRSI "Manual of Standard Practice".
- B. Installation:
1. Clean reinforcement of loose rust and mill scale, earth, ice, and other materials that reduce or destroy bond with concrete.
 2. Install reinforcement in the position shown on the Engineering Drawings and in accordance with CRSI standards. Provide all supports needed to secure every bar against displacement prior to placing concrete.
 3. Accurately position, support, and secure reinforcement against displacement. Locate and support reinforcing by metal chairs, runners, bolsters, spacers and hangers, as approved by the Architect.
 4. Place reinforcement to maintain minimum coverages as indicated for concrete protection. Where minimum coverages are not indicated, comply with the requirements of ACI 318. Arrange, space, and securely tie bars and bar supports to hold reinforcement in position during concrete placement operations. Set wire ties so ends are directed into concrete, not toward exposed concrete surfaces.
 5. Splicing of main reinforcement is not permitted unless the splices are shown on the Structural Drawings or have been approved by the Architect.
 6. In the event conduits, piping, inserts, sleeves or any other items interfere with placing reinforcement as indicated on the Drawings or as otherwise required, immediately consult

the Architect and obtain approval of new procedure before placing concrete.

C. Notification:

1. Contractor shall notify the Architect when reinforcement for a pour is nearing completion so that reinforcing steel in place may be reviewed.
 - a. Allow sufficient time for setters to make adjustments or corrections so that reinforcing steel correct in size, shape and position will be in place when concreting operations are started.

END OF SECTION

**SECTION 03 30 00
CAST-IN-PLACE CONCRETE**

PART 1 GENERAL

1.01 SCOPE

- A. Provide all materials, labor and equipment required for placing, finishing and curing all cast-in-place concrete work as shown and indicated.
 - 1. This section specifies cast-in-place concrete, including mix design, placement procedures, and finishes.
- B. Provide installation of all specified items to be embedded in cast-in-place concrete.
- C. Related Documents:
 - 1. Drawings and general provisions of the Contract, including General Conditions and Division 1 Specification sections, apply to this section.
 - 2. Related Sections:
 - a. Section 03 10 00 CONCRETE FORMWORK.
 - b. Section 03 20 00 CONCRETE REINFORCEMENT.
- D. Quality Assurance:
 - 1. Codes and Standards: Comply with provisions of following codes, specifications, and standards, except where more stringent requirements are shown or specified.
 - a. ACI 301, "Specifications for Structural Concrete".
 - b. ACI 303.1, "Specification for Cast-in-Place Architectural Concrete"
 - c. ACI 305, "Hot Weather Concreting".
 - d. ACI 306, "Cold Weather Concreting".
 - e. ACI 318, "Building Code Requirements for Structural Concrete".
 - f. ASTM C31, "Making and Curing Concrete Test Specimens in the Field".
 - g. ASTM C33, "Concrete Aggregates".
 - h. ASTM C39, "Test for Compressive Strength of Cylindrical Concrete Specimens".
 - i. ASTM C94, "Ready-Mixed Concrete"
 - j. ASTM C143, "Test for Slump of Hydraulic Cement Concrete".
 - k. ASTM C150, "Portland Cement".
 - l. ASTM C171, "Sheet Materials for Curing Concrete".
 - m. ASTM C172, "Sampling Freshly Mixed Concrete".
 - n. ASTM C173, "Test for Air Content of Freshly Mixed Concrete by the Volumetric Method".
 - o. ASTM C231, "Test for Air Content of Freshly Mixed Concrete by the Pressure Method".
 - p. ASTM C260, "Air-Entraining Admixtures for Concrete".
 - q. ASTM C309, "Liquid Membrane-Forming Compounds for Curing Concrete".
 - r. ASTM C494, "Chemical Admixtures for Concrete".
 - s. ASTM C618, "Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete".
 - t. ASTM D994, "Expansion Joint Fillers for Concrete Paving and Structural Construction".
 - u. ASTM D1751, Standard Specification for Preformed Expansion Joint Filler for Concrete Paving and Structural Construction (Nonextruding and Resilient Bituminous Types).
 - v. ASTM E1155, "Standard Test Method for Determining Floor Flatness and Levelness Using the F-Numbers System".
- E. Submittals:
 - 1. Submit the following in accordance with Conditions of Contract and Division 1 Specification sections:

- a. Concrete Mix Designs: Contractor shall submit mix designs to the Architect allowing sufficient time for the review and approval process prior to start of any concrete placement operations.
 - 1) Contractor shall submit a mix design for each class of concrete required for the project including:
 - (a) Standard deviation analysis, required average strength and documentation of average strength verifying compliance with ACI 318.
 - (b) Mix proportions by weight, water-cement ratio, slump and air content.
 - (c) Sieve analyses of fine and coarse aggregates.
 - (d) Complete list of materials specified with product information demonstrating compliance with specified requirements.
 - 2. Product Data: Contractor shall submit data for proprietary materials and items specified under the provisions of Division 1 and demonstrating compliance with the requirements of this Specification.
- F. Environmental Requirements:
 - 1. Do not place concrete during rain, sleet or snow unless adequate protection is provided.
 - 2. Hot Weather: Perform work in accordance with ACI 305.
 - 3. Cold Weather: Perform work in accordance with ACI 306.

PART 2 PRODUCTS

2.01 CONCRETE MATERIALS:

- A. Portland Cement: ASTM C150, Type I, II, or III.
- B. Fly Ash: ASTM C618, Type C.
 - 1. Maximum loss on ignition: 1.5%.
 - 2. Maximum amount retained when wet sieved on No. 325 sieve: 30%.
- C. Aggregates: ASTM C33:
 - 1. Fine aggregates shall be natural sand, clean, hard, durable particles well graded from coarse to fine. Sand as defined by Texas Department of Transportation, Standard Specifications, granular material having at least 90% passing through No. 4 sieve and predominantly retained by the No. 200 sieve.
 - 2. Coarse aggregates shall be crushed gravel or crushed stone, clean, hard, durable particles retained on a No. 10 sieve per Texas Department of Transportation, Standard Specifications, 3/4" maximum size.
 - a. Crushed limestone shall be used for all exterior concrete work including concrete pads, pavement, drives, slabs and walks on grade.
- D. Water: Fresh, clean, potable, free of oil, acid, alkali, salts or any other foreign matter.
- E. Air-Entraining Admixture: ASTM C260.
 - 1. Standards:
 - a. Master Air AE 200 by BASF Construction Chemicals/Master Builders.
 - b. Darex II by W. R. Grace & Co.
 - c. Daravair 1400 by W. R. Grace & Co.
- F. Water-Reducing Admixture: ASTM C494, Type A.
 - 1. Standards:
 - a. MasterPozzolith 322 or MasterPozzolith 200 by BASF Construction Chemicals/Master Builders.
 - b. WRDA Series by W. R. Grace & Co.
- G. Mid-Range Water Reducing Admixture: ASTM C494, Type A.
 - 1. Manufacturers/Standards:
 - a. MasterPolyheed by BASF Construction Chemicals/Master Builders.
 - b. Daracem 55 or 65 by W. R. Grace & Co.
- H. Accelerating Admixture: ASTM C494, Type C.

1. Standards:
 - a. MasterSet AC 534 or MasterSet FP 20 by BASF Construction Chemicals/ Master Builders (Non-chloride).
 - b. Polarset by W. R. Grace & Co. (Non-chloride)
- I. Water-Reducing and Retarding Admixture: ASTM C494, Type D.
 1. Standards:
 - a. MasterSet R 122 by BASF Construction Chemicals/Master Builders.
 - b. Daratard-17 by W. R. Grace & Co.
- J. High Range Water-Reducing Admixture: ASTM C494, Type F or G.
 1. Manufacturers:
 - a. MasterGlenium by BASF Construction Chemicals/Master Builders.
 - b. W. R. Grace & Co.

2.02 RELATED MATERIALS:

- A. Curing Compound - ASTM C309:
 1. Non-staining acrylic type curing compound.
 2. Compatible with applied sealers and finishes specified for the concrete surfaces to be cured.
- B. Moisture Retention Cover - ASTM C171: Waterproof paper or polyethylene film.
- C. Evaporation Retardant:
 1. Apply in accordance with manufacturer's instructions.
 2. Standard:
 - a. MasterKure ER 50 by Master Builders
 - b. EUCOBAR by the Euclid Chemical Co.
- D. Epoxy Bonding Adhesive:
 1. Two-part structural epoxy adhesive.
 2. Use to bond fresh, plastic concrete or patching mortar to hardened concrete.
 3. Standard: Sikadur 32, Hi-Mod by Sika Corporation.
- E. Adhesive Anchors:
 1. Moisture insensitive epoxy.
 2. Use to anchor reinforcing steel or anchor rods into hardened concrete.
 3. Standards:
 - a. HILTI HIT-HY 150 Max by Hilti Inc.
 - b. Hilti HIT-RE 500-SD by Hilti Inc.
 - c. Architect-approved equal; submit literature including depth of embedment to develop reinforcing bars and anchor bolts.
 4. Drilled hole size and installation procedure shall conform to manufacturer's instructions.
- F. Patching Material - General:
 1. Use to repair honeycombed and other defective concrete.
 - a. May also be utilized to repair and level the top of the existing foundation perimeter wall (see article H below).
 2. Product Standards:
 - a. Five Star Structural Concrete by U.S. Grout Corporation.
 - b. MasterEmaco S C477CI by BASF Construction Chemicals/Master Builders.
 3. Where patching material is being placed in thicknesses greater than 2", it may be extended with pea gravel aggregate in accordance with the manufacturer's recommendations.
- G. Patching Material for Vertical or Overhead Surfaces:
 1. Standards:
 - a. Five Star Structural Concrete V/O by U.S. Grout Corporation
 - b. MasterEmaco S 488CI by BASF Construction Chemicals/Master Builders

- H. Self Leveling Patching Material:
 - 1. Used to repair and level the top of the existing foundation perimeter wall prior to installation of new work.
 - 2. Products: Super Flo-Top by Euclid Chemical Company
 - 3. Primer / Bonding Agent: EucoWeld by Euclid Chemical Company
- I. Joint Filler: ASTM D1751.
 - 1. Fibre expansion joint filler, width of filler equal to full depth of slab.
 - 2. Standards: Sealtight Fibre by W. R. Meadows, Inc.
- J. Waterstops:
 - 1. PVC flat ribbed or dumbbell type with 6" minimum width required.
 - a. Standards:
 - 1) Greenstreak Plastic Products Company
 - 2) Vinylex Corporation
 - 2. Waterstop for Cold Joint Applications:
 - a. Standard: Akwastop by Cetco Company. Install in accordance with the manufacturer's recommendations using AS-100 adhesive.
- K. Vapor Barrier:
 - 1. Vapor barrier shall have all of the following qualities:
 - a. Maintain permeance of less than 0.01 Perms as tested in accordance with mandatory conditioning tests per ASTM E1745.
 - 2. Other Performance Criteria:
 - a. Strength: ASTM E1745 Class A.
 - b. Thickness: 15 mils minimum.
 - c. Approved Manufacturers:
 - 1) Stego Wrap Vapor Barrier by Stego Industries, LLC.
 - 2) Perminator by W.R. Meadows.
 - 3) Products meeting or exceeding the Specifications may be submitted for consideration by the Architect.
 - 3. Accessories: Shall be provided by the vapor barrier system as follows:
 - a. Seams: Shall be provided by the vapor barrier system as follows:
 - 1) Stego Tape by Stego Industries, LLC.
 - 2) Perminator tape by W.R. Meadows.
 - b. Sealing Penetrations of Vapor Barrier:
 - 1) Stego Mastic by Stego Industries, LLC.
 - 2) Stego Tape by Stego Industries, LLC.
 - 3) Mel-Rol LM or pointing mastic by W.R. Meadows.
 - c. Perimeter/Edge Seal: Term Bar by Stego Industries, LLC. or W.R. Meadows

2.03 PROPORTIONING AND DESIGN OF MIXES:

- A. Prepare design mixes for each type and strength of concrete by either laboratory trial batch or field experience methods as specified in ACI 301. Develop concrete proportions with the required average strength based upon the appropriate amount of overdesign as required by Section 5.3 of ACI 318.
- B. Use a water reducing admixture or high-range water-reducing admixture (Superplasticizer) in all mix designs as required for placement and workability. Use in strict accordance with manufacturer's instructions.
- C. Use an air-entraining admixture in mix designs for all concrete exposed to freezing and thawing during service and for all concrete which during the initial construction period will be exposed to cold weather prior to attaining its specified compressive strength. Add air-entraining admixture at manufacturer's prescribed rate to result in concrete at point of placement having total air content with a tolerance of plus or minus 1% of the specified value.

- D. Base mix design on saturated surface dry aggregates. Adjust the amount of mixing water added at the batch plant for the moisture condition of the aggregates.
- E. Fly ash use shall be a minimum of 15% and maximum of 20% of cement content by weight.
- F. Water Soluble Chloride Ion Content:
 - 1. Maximum percent allowed in concrete by weight of cement:
 - a. 0.15% for reinforced concrete exposed to earth or weather.
 - b. 0.30% for other reinforced concrete.
- G. Slump Limits:
 - 1. Proportion and design mixes to result in concrete slump at point of placement as follows:
 - a. Mixes containing water-reducing admixture: Not less than 4" and not more than 6".
 - b. Mixes containing high range water-reducing admixture (superplasticizer): Not less than 5" and not more than 8".
 - c. Pier slump limits shall not be less than 4" and not more than 7".
- H. Concrete Mix Classes:
 - 1. Class A Concrete:
 - a. Use for spread footing foundations, curbs, and equipment bases
 - b. Compressive strength at 28 days: 3,000 psi.
 - c. Minimum cement content: 517 lbs./cu.yd.
 - d. Maximum water-cement ratio: 0.48.
 - e. Air content: 6 + 1%.
 - f. Water-reducing admixture required.
 - 2. Class B Concrete:
 - a. Use for structural columns, piers, walls, slabs and beams, slab topping and where concrete mix class is not otherwise indicated.
 - b. Compressive strength at 28 days: 3,000 psi.
 - c. Minimum cement content: 564 lbs/cu.yd.
 - d. Maximum water-cement ratio: 0.40.
 - e. Air content: None added, 6 + 1% for exterior structures.
 - f. Water-reducing admixture required.
 - 3. Class C Concrete:
 - a. Use for interior slabs on grade
 - b. Compressive strength at 28 days: 3,500 psi.
 - c. Minimum cement content: 470 lb./cu.yd. (20% fly ash)
 - d. Maximum water-cement ratio: 0.48.
 - e. Air content: none added.
 - f. Mid-range water-reducing admixture if required.
 - g. Synthetic fiber reinforcing is required where steel reinforcing is not specified.
 - 4. Concrete Mixing: Batch and mix concrete in accordance with the requirements of ASTM C94, and as specified.

PART 3 EXECUTION

3.01 PREPARATION:

- A. Install items to be embedded in concrete. Position accurately and secure against displacement.
- B. Do not place sleeves through concrete beams or structural floors unless they are shown on the drawings, or approved by the Architect.
- C. Remove ice, snow, frost, standing water and construction debris from areas in which concrete is to be placed.
- D. Dampen sub-grade prior to placing concrete on grade.

- E. Prevent groupings of conduits, pipes and sleeves in concrete that would significantly impair the strength of the concrete.
- F. Notify the Architect when concrete placement is planned. Allow sufficient time for review of formwork, reinforcement and embedded items, and for any required corrective work.

3.02 PLACING CONCRETE:

A. General:

1. Do not place on frozen ground, mud or debris. Place concrete in a continuous operation until a section is completed. Unplanned cold joints shall be avoided.
2. Reinforcement: Clean mud, ice, and other coating from reinforcement. Maintain cover conforming to ACI standard practice.
3. Conveying: Convey concrete from the mixer to the place of final deposit by methods which will prevent the loss or separation of the materials.
4. Comply with ACI 304, "Recommended Practice for Measuring, Mixing, Transporting, and Placing Concrete," and as herein specified.
5. Deposit concrete continuously or in layers of such thickness that no concrete will be placed on concrete that has hardened sufficiently to cause the formation of seams or planes of weakness. If a section cannot be placed continuously, provide construction joints as herein specified. Deposit concrete to avoid segregation at its final location.

B. Placing Concrete in Forms:

1. Deposit concrete in forms in horizontal layers not deeper than 2' and in a manner to avoid inclined construction joints. Where placement consists of several layers, place each layer while preceding layer is still plastic to avoid cold joints.
2. Consolidate placed concrete by mechanical vibrating equipment supplemented by hand-spading, rodding, or tamping. Use equipment and procedures for consolidation of concrete in accordance with ACI 309.
3. Do not use vibrators to transport concrete inside forms. Insert and withdraw vibrators vertically at uniformly spaced locations not farther than visible effectiveness of machine. Place vibrators to rapidly penetrate placed layer and at least 6" into preceding layer. Do not insert vibrators into lower layers of concrete that have begun to set. At each insertion limit duration of vibration to time necessary to consolidate concrete and complete embedment of reinforcement and other embedded items without causing segregation of mix.

C. Placing Concrete Slabs:

1. Deposit and consolidate concrete slabs in a continuous operation, within limits of construction joints, until the placing of a panel or section is completed.
2. Consolidate concrete during placing operations so that concrete is thoroughly worked around reinforcement and other embedded items and into corners.
3. Bring slab surfaces to correct level with straightedge and strike off. Use bull floats or darbies to smooth surface, free of humps or hollows. Do not disturb slab surfaces prior to beginning finishing operations.
4. Maintain reinforcing in proper position during concrete placement.

3.03 FINISHING SLABS:

A. Float Finish:

1. Apply float finish to monolithic slab surfaces to receive trowel finish and other finishes as hereinafter specified; slab surfaces to be covered with membrane or elastic waterproofing, membrane or elastic roofing, or sand-bed terrazzo; and as otherwise indicated.
2. After screeding, consolidating, and leveling concrete slabs, do not work surface until ready for floating. Begin floating, using float blades or float shoes only, when surface water has disappeared, when concrete has stiffened sufficiently to permit operation of power-driven floats, or both. Consolidate surface with power-driven floats or by hand-floating if area is small or inaccessible to power units. Check and level surface plane to tolerances of Ff 18 - FI 15. Cut down high spots and fill low spots. Uniformly slope surfaces to drains.

Immediately after leveling, refloat surface to a uniform, smooth, granular texture.

- B. Trowel Finish:
 - 1. Apply trowel finish to monolithic slab surfaces to be exposed to view and slab surfaces to be covered with resilient flooring, carpet, ceramic or quarry tile, paint, or other thin film finish coating system.
 - 2. After floating, begin first trowel finish operation using a power-driven trowel or hand-troweling if area is small or inaccessible to power units. Begin final troweling when surface produces a ringing sound as trowel is moved over surface. Consolidate concrete surface by final hand-troweling operation, free of trowel marks, uniform in texture and appearance, and with surface leveled to tolerances of Ff 25 - FI 20. Grind smooth surface defects that would telegraph through applied floor covering system.
- C. Trowel and Fine Broom Finish: Where ceramic or quarry tile is to be installed with thin-set mortar, apply trowel finish as specified then immediately follow with slightly scarifying surface by fine brooming.
- D. Nonslip Broom Finish:
 - 1. Apply nonslip broom finish to exterior concrete platforms, steps, and ramps, and elsewhere as indicated.
 - 2. Immediately after float finishing, slightly roughen concrete surface by brooming with fiber-bristle broom perpendicular to main traffic route producing a coarse, scored, slip-resistant texture. Coordinate required final finish with Architect before application.
- E. Tolerances:
 - 1. Finish level slabs to conform to the following F - numbers:
 - a. All slabs Ff = 25, FI = 20.
 - 2. Perform compliance tests for all slabs.
 - a. Testing and computation of F - numbers shall be by an independent testing laboratory and shall conform to ASTM E1155.
 - b. Compliance tests shall be performed using the Dipstick Floor Profiler or the Face Floor Profileograph.
 - c. Compliance tests shall be completed within 24 hours after the final finishing is complete.

3.04 FINISH OF FORMED SURFACES:

- A. Rough Form Finish: For formed concrete surfaces not exposed to view in the finished work or concealed by other construction.
 - 1. This is the concrete surface having texture imparted by form-facing material used.
 - 2. Rub down or chip off all fins and other projections exceeding 1/4" in height.
 - 3. Repair all defective areas in accordance with this Specification.
 - 4. Fill all tie holes solid with patching mortar. Match mortar color to surrounding concrete.
- B. Smooth Form Finish: For formed concrete surfaces to be covered with a coating material applied directly to concrete, or a covering material applied directly to concrete, such as waterproofing, damp proofing, veneer plaster, painting, or other similar system.
 - 1. This is an as-cast concrete surface obtained with selected form-facing material, arranged in an orderly and symmetrical manner with a minimum of seams.
 - 2. Completely remove and smooth all fins and projections.
 - 3. Repair all defective areas in accordance with this specification.
 - 4. Fill all tie holes solid with patching mortar. Match mortar color to surrounding concrete.
 - 5. Apply grout clean down treatment to surface areas with light honey-combing and air holes, completely filling all voids. Match grout color with that of the surrounding concrete.
- C. Smooth Rubbed Finish: For concrete surfaces exposed to view, provide smooth rubbed finish to concrete surfaces, which have received smooth form finish treatment, not later than one day after form removal.
 - 1. Following the Smooth Form Finish described above, moisten concrete surfaces and rub with carborundum brick or other abrasive until a uniform color and texture is produced.

2. Do not apply cement grout other than that created by the rubbing process.
- D. Related Unformed Surfaces: At tops of walls, horizontal offsets, and similar unformed surfaces occurring adjacent to formed surfaces.
 1. Strike-off smooth and finish with a texture matching adjacent formed surfaces.
 2. Continue final surface treatment of formed surfaces uniformly across adjacent unformed surfaces unless otherwise indicated.

3.05 CONCRETE CURING AND PROTECTION:

- A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Maintain concrete in a moist condition for at least 5 days at temperature above 70F and at least 7 days at temperatures above 50F.
- B. Curing Slabs and Other Unformed Surfaces:
 1. In hot, dry, and windy weather, protect concrete from rapid moisture loss before and during finishing operations with an evaporation-control material. Apply in accordance with manufacturer's instructions after screeding and bull floating, but before power floating and troweling.
 2. Start initial curing as soon as free water has disappeared from concrete surface after placing and finishing. Weather permitting, keep continuously moist for not less than 7 days.
 3. Curing Methods: Perform curing of concrete by curing and sealing compound or by moisture retaining cover curing.
 - a. Provide curing and sealing compound as follows:
 - 1) Apply specified curing and sealing compound to the concrete surfaces as soon as final finishing operations are complete (within 2 hours and after surface water sheen has disappeared). Apply uniformly in continuous operation by power spray or roller in accordance with manufacturer's directions. Recoat areas subjected to heavy rainfall within 3 hours after initial application. Maintain continuity of coating and repair damage during curing period.
 - b. Provide moisture-retaining cover curing as follows:
 - 1) Cover concrete surfaces with moisture-retaining cover for curing concrete, placed in widest practicable width with sides and ends lapped at least 6" and sealed by waterproof tape or adhesive. Immediately repair any holes or tears during curing period using cover material and waterproof tape.
- C. Curing Formed Surfaces:
 1. Cure formed concrete surfaces, including underside of beams, supported slabs, and other similar surfaces, by moist curing with forms in place for full curing period or until forms are removed. During hot, dry, and windy weather keep forms moist by sprinkling with water.
 2. If forms are removed prior to the end of the curing period apply curing compound as described above to formed surfaces.

3.06 JOINTS:

- A. Construction Joints:
 1. Locate and install construction joints so as not to impair strength and appearance of the structure, as acceptable to Architect.
 2. Continue reinforcement across all construction joints.
 3. Provide keyways at least 1 1/2" deep in construction joints in vertical construction joint surfaces. Accepted bulkheads designed for this purpose may be used for slabs.
 4. Thoroughly clean the concrete surface at construction joints and remove laitance before placing adjoining concrete.
 5. In slabs on grade with control joints, locate construction joints at control joint locations.
- B. Slab-on-Grade Contraction Joints:
 1. Contraction Joints in Slabs-on-Ground:
 - a. Sawcut Control Joints:

- 1) Construct contraction joints in slabs-on-ground to form panels of patterns as shown. Use saw cuts 1/8" wide by 1/4" of the slab thickness in depth, sawing in straight and uniform lines. Install joints as soon as possible after slab finishing as may be safely done without dislodging aggregate.
 - 2) If joint pattern is not shown, provide joints not exceeding 15' in either direction and located to conform to bay spacing wherever possible (at column centerlines, half bays, third bays).
 - b. Hand-Tooled Contraction Joints: Tool joints with hand groovers in straight lines to avoid unsightly joints.
2. Isolation Joints in Slabs-on-Ground: Construct isolation joints in slabs-on-ground at points of contact between slabs-on-ground and vertical surfaces, such as column pedestals, foundation walls, grade beams, and elsewhere as indicated.

3.07 MISCELLANEOUS CONCRETE ITEMS:

- A. Filling In: Fill in holes and openings left in concrete structures for passage of work by other trades, unless otherwise shown or directed, after work of other trades is in place. Mix, place, and cure concrete as herein specified, to blend with in-place construction. Provide other miscellaneous concrete filling shown or required to complete work.
- B. Curbs: Provide monolithic finish to interior curbs by stripping forms while concrete is still green and steel-troweling surfaces to a hard, dense finish with corners, intersections and terminations slightly rounded.
- C. Equipment Bases and Foundations: Provide machine and equipment bases and foundations, as shown on drawings. Set anchor bolts for machines and equipment to template at correct elevations, complying with certified diagrams or templates of manufacturer furnishing machines and equipment.

3.08 PROTECTION:

- A. Protect finished concrete surfaces from damage by construction equipment, materials or methods and by rain or running water.
- B. Protect new and existing floor slabs from staining. Provide protection boards and tarps to protect floors.
- C. Do not load self-supporting members in such a way as to overstress the concrete.

3.09 CONCRETE SURFACE REPAIRS:

- A. Repairing Defective Areas:
 1. Repair and patch defective areas with cement mortar immediately after removal of forms, when acceptable to Architect.
 2. Cut out honeycomb, rock pockets, voids over 1/4" in any dimension, and holes left by tie rods and bolts, down to solid concrete but in no case to a depth of less than 1". Make edges of cuts perpendicular to the concrete surface. Thoroughly clean, dampen with water, and brush-coat the area to be patched with specified epoxy bonding agent. Place patching mortar before bonding compound has dried.
 3. For exposed-to-view surfaces, blend white portland cement and standard portland cement so that, when dry, patching mortar will match color surrounding. Provide test areas at inconspicuous location to verify mixture and color match before proceeding with patching. Compact mortar in place and strike-off slightly higher than surrounding surface.
 4. Repair concealed formed surfaces, where possible, that contain defects that affect the durability of concrete. If defects cannot be repaired, remove and replace concrete.
 5. Apply curing to the repaired surface as soon as possible and maintain for a minimum of 2 days.
- B. Repairing Existing Concrete Surfaces:
 1. Match repairs to color, texture, and uniformity of surrounding surfaces and to approved mockup repairs.

2. Repair and level the top of the existing perimeter foundation wall where new construction is being installed on top of existing concrete surfaces utilizing a self leveling or flowable patching material.
3. Repair existing concrete surfaces where indicated on the drawings and where defects are discovered that are exposed to view or that affect the overall quality of the work.
4. Procedure:
 - a. Remove areas showing signs of distress, unsoundness, or delamination by hand chipping. Removal shall be stopped when it is determined that sound concrete is being removed.
 - b. Remove all rust from exposed reinforcing steel.
 - c. Saw cut or grind the perimeter of the removal area to a depth of 1/2" perpendicular to the original concrete surface where self leveling patching material is not being used. Remove concrete inside the area to be repaired to a minimum depth of 1/2" from the original concrete surface.
 - d. Roughen areas of sound concrete within the area to be repaired by hand chipping.
 - e. The area to be patched shall be thoroughly cleaned of all dirt, foreign materials, and loose concrete to the extent necessary to produce a firm surface for the adherence of the new concrete.
 - f. Thoroughly wet the existing concrete surface prior to patching. All existing concrete shall be in a saturated surface dry condition at the time of patching.
 - g. Apply epoxy bonding agent, recommended primer, or thoroughly scrub a thin bond coat of patching mortar into the area to be repaired with a stiff bristled brush. Do not apply more of the bond coat than can be covered with mortar before the bond coat dries.
 - h. Immediately after the application of the bonding agent, primer, or bond coat trowel or pour patching material into the area to be repaired. If the repair area is greater than 1-1/2" in depth, apply patching material in 1" lifts. Succeeding lifts may be placed after patching material has developed an initial set. Surfaces between lifts shall be rough finished and shall not be allowed to dry out.
 - i. Finish the repair area to match the existing concrete surface.
 - j. Cure with two coats of sprayed on curing compound as recommended by the patching material manufacturer. The first coat shall be applied immediately after finishing and the second coat shall be applied the following day.

3.10 FIELD QUALITY CONTROL:

- A. Scope: The Owner shall engage a qualified testing agency to perform concrete testing as described herein. Scheduling and coordination of testing shall be the responsibility of the Contractor.
- B. Testing Laboratory: Conduct testing and write reports as outlined in this Article under provisions of Division.
 1. Additional strength tests taken to determine the early strength of placed concrete to facilitate the Contractor's operations shall be taken and tested at the Contractor's expense.
 2. Laboratory Test Reports: Submit to the Architect Field Quality Control Reports within 3 days after completion of the 7-day and 28-day tests.
- C. Strength Tests:
 1. During the progress of the work, take samples of concrete for strength tests in accordance with ASTM C172.
 2. Make and cure a minimum of 4 cylinders in accordance with ASTM C31 for each of the following:
 - a. Each 50 cubic yards of concrete.
 - b. Each 3,000 s.f. of surface area for slabs and walls.
 - c. Each class of concrete placed in a day's work.
 3. Test each group of 4 cylinders in accordance with ASTM C39 as follows:

- a. One field cured cylinder to be tested at 7 days or just before anticipated time of form removal.
- b. Two laboratory cured cylinders to be tested at 28 days.
- c. One laboratory cured cylinder to be held as spare
- 4. A strength test is the average of the strengths of two cylinders made from the same sample of concrete and tested at 28 days.
- 5. The strength level of an individual class of concrete will be considered satisfactory if both of the following requirements are met:
 - a. Average of all sets of three consecutive strength tests equal or exceed the specified compressive strength.
 - b. No individual strength test (average of two cylinders) falls below the specified compressive strength by more than 500 psi.
- 6. If the strength level of an individual class of concrete is found to be unsatisfactory, conduct core testing in accordance with ASTM C42, impactometer testing or load testing on the area of concrete in question as required by the Architect. If such additional testing does not produce acceptable results, corrective measures will be required to ensure structural adequacy.
 - a. Make appropriate adjustments to the concrete mix designs as required.
- D. Slump Tests:
 - 1. Make one slump test in accordance with ASTM C143 with each group of 4 cylinders.
 - 2. When concrete is pumped, make the slump test at the point of discharge.
 - 3. Keep a slump cone available at the site for additional testing as required.
- E. Air Content Tests: Make one air content test in accordance with ASTM C173 or ASTM C231 with each group of 4 cylinders for air-entrained concrete mixes.
- F. Field Quality Control Test Reports:
 - 1. Include the following information in test reports:
 - a. Project identification.
 - b. Specific location where concrete is being placed
 - c. Concrete mix class and specified compressive strength requirements.
 - d. Weather conditions and air temperature.
 - e. Concrete temperature, slump and air content test results.
 - f. Dates of placing and testing.
 - g. The time of day that the concrete was batched
 - h. The time of day that the concrete was placed
 - i. Method of curing (field or laboratory).
 - j. Strength test results.
 - k. Technician's name, certification number with expiration date.

3.11 VAPOR BARRIER INSTALLATION:

- A. Preparation:
 - 1. Ensure that subsoil is approved by Architect.
 - a. Level and compact base material.
- B. Installation:
 - 1. Install vapor barrier in accordance ASTM E1643.
 - a. Unroll vapor barrier with the longest dimension parallel with the direction of the concrete placement and face laps away from the expected direction of the placement whenever possible.
 - b. Extend vapor barrier to the perimeter of the slab. If practicable, terminate it at the top of the slab, otherwise (a) at a point acceptable to the Architect or (b) where obstructed by impediments, such as dowels, waterstops, or any other site condition requiring early termination of the vapor barrier. At the point of termination, seal vapor barrier to the foundation wall, grade beam or slab itself.

- 1) Seal vapor barrier to the entire perimeter wall or footing/grade beam with both Term Bar and Perimeter Tape, per manufacturer's instructions. Ensure the concrete is clean and dry prior to adhering tape.
- c. Overlap joints 6 inches and seal with manufacturer's seam tape.
- d. Apply seam tape to a clean and dry vapor barrier.
- e. Seal all penetrations (including pipes) per manufacturer's instructions.
- f. For interior forming applications, avoid the use of non-permanent stakes driven through vapor barrier. Use blunt-end and/or threaded nail stakes (screed pad posts) and insert them into Beast Foot. Ensure Beast Foot's peel-and-stick adhesive base is fully adhered to the vapor barrier.
- g. If non-permanent stakes are driven through vapor retarder, repair as recommended by vapor retarder manufacturer.
- h. Use reinforcing bar supports with base sections that eliminate or minimize the potential for puncture of the vapor barrier.
- i. Repair damaged areas with vapor barrier material of similar (or better) permeance, puncture and tensile.

END OF SECTION

**DIVISION IV thru DIVISION XXV
Not Used**

DIVISION XXVI
Electrical

SECTION 260000
ELECTRICAL

PART 1: GENERAL

1.1 GENERAL

- A. The work indicated in this division and on the Electrical Drawings is subject to the requirements of the Bidding and Contract Requirements (Division 0) and General Requirements (Division 1). These are hereby included by reference. The Contractor is directed to examine all portions of the Bid Documents as they pertain to the Work covered by this division of the Specifications and to include all costs in Bid for all Electrical Work as called for by the complete Bid Documents.
- B. Provide all required labor, materials, equipment and Contractor services necessary for the complete installation of equipment indicated herein and on the Drawings, complete with all related services. Review all existing building conditions as they relate to Electrical work and include costs in bid. Coordinate requirements with other Trades as required. In general the primary work scope is removal and replacement of the existing generators and transfer switches with new equipment and also includes various related equipment and accessories.
- C. The Electrical Contractor/Trade shall be responsible for coordination and distribution of work to his subcontractors and shall verify completeness of submittals and work.

1.2 CONTRACT DOCUMENTS

- A. The Drawings listed in the Drawing Index, together with these specifications, are an integral part of the Contract. What is called for in one is as binding as if called for in both. In case of conflict, the greater quantity or better quality is to prevail, subject to the approval of the Engineer/Architect.
- B. The Drawings are diagrammatic only, but are to be followed as closely as actual construction of the project and work of other trades will permit. Minor changes from these Drawings, necessary to coordinate with the work of all trades and to make the work of this Contractor conform to the project as constructed, are to be made at no additional cost to the Owner.
- C. The Drawings are not to be scaled for the purpose of equipment installation. All measurements to be derived from Architectural and shop drawings and coordinated with actual field conditions. All measurements must be verified. The Contractor is responsible for all work fitting into place in a satisfactory and workmanlike manner.
- D. Increased cost of wiring resulting from increased electrical ratings over that shown on

the Electrical Drawings is to be borne by the Contractor furnishing the equipment.

- E. Arrange work for maximum clearance and accessibility to all work of this trade as well as other trades. Coordinate with existing conditions.

1.3 ALLOWANCES

- A. See Division 1 of the Specifications.

1.4 CODES, STANDARDS AND PERMITS

- A. All work shall be in accordance with National, State and Local codes in force at time of bidding, including but not limited to the National Electrical Code. In addition, the Contractor shall be responsible for obtaining all necessary permits and inspection approvals as the work progresses. Any work which is completed without these approvals and found to be unacceptable shall be corrected by the Contractor at no additional cost.
- B. The Contractor shall be responsible for payment of all fees associated with inspections, permits and utility connections unless otherwise indicated.
- C. All standards referenced in this Division or on the Drawings shall comply with the latest edition in force. Material and equipment furnished and installed under these Specifications which, in the opinion of the Engineer/Architect, do not comply with the standards of the organizations listed, are to be replaced without additional cost to the Owner. Standards shall include but not be limited to the following:

NFPA	National Fire Protection Association
UL	Underwriters' Laboratories
NEMA	National Electrical Manufacturer's Association
IEEE	Institute of Electrical and Electronics Engineers
ICEA	Insulated Cable Engineers Associations
ASTM	American Society for Testing and Materials

1.5 MATERIALS AND EQUIPMENT

- A. Where "approved equal" clause is indicated, it means material, apparatus, equipment and supplies having recognized standards of quality and performance which, in the judgement of the Engineer/Architect, will meet the design and specification requirements. Material and equipment by manufacturers other than those listed in the Plans or Specifications must be submitted to the Engineer/Architect for approval not later than TEN (10) working days prior to the due date for bids.
- B. Where "or equal" clause is indicated, it means material and equipment of equal or better quality and performance than that listed in the Plans and Specifications, except that no approval prior to bidding is required.

1.6 SHOP DRAWINGS AND SUBMITTALS

- A. Provide all submittals as called for in Division 1 of the Specifications, including shop drawings, samples, material lists, Schedule of Value, etc. SHOP DRAWINGS SHALL BE COMPLETELY REVIEWED AND APPROVED BY THE CONTRACTOR AND TRADE FURNISHING THE EQUIPMENT (INDICATED BY THE CONTRACTOR'S APPROVAL STAMP) PRIOR TO SUBMITTING TO THE ENGINEER/ARCHITECT.
- B. Review and approval of shop drawings by the Engineer/Architect is for general conformity to design intent only. This review does not authorize changes to the contract sum or relieve the Contractor in any way of his contract obligations.

1.7 ELECTRICAL

- A. Coordinate all Work requiring electrical connection with the Contractor providing the equipment. Except as otherwise indicated, additional internal wiring, automatic control wiring, protective devices, etc. associated with work furnished by the other Trades shall be furnished by the Trade supplying the equipment.
- B. Verify voltage and phase characteristics of the electrical service and coordinate with mechanical equipment as required.
- C. Where electrical ratings of equipment increase over those indicated on the approved Construction Documents, the Contractor providing the equipment shall pay additional costs of wiring and electrical equipment for proper electrical service to the equipment.
- D. Provide submittals for the following:
 - 1. Raceways
 - 2. Generators and associated equipment
 - 3. Automatic Transfer Switches
 - 4. Firestopping
- E. Provide Arc Flash Warning Labels on Electrical Equipment as required by the National Electrical Code. Electrical Equipment shall include but is not limited to the following:
 - 1. Generators
 - 2. Automatic Transfer Switches

1.8 PAINTING AND FINISHING

- A. Unless otherwise indicated in other Divisions of the Specifications, at no additional cost to the Owner, repaint all patched areas to match original finish where holes or chases

have been cut to receive electrical work. Repaint patched areas with two (2) coats of paint to match surrounding areas; blend as required.

- B. Unless otherwise indicated in other Divisions of the Specifications, at no additional cost to the Owner, give all fabricated steel supports, hangers, brackets and platforms installed under this Contract two (2) coats of high-grade enamel.
- C. Touch up marred surfaces of equipment housing with enamel of a color to match.

1.9 DEMOLITION

- A. Before starting demolition work, review all requirements for final remodeling work so that usable existing system components, as required for completion of the new work, are not destroyed. Coordinate all work with the other Contractors.
- B. All electrical equipment and circuits that are damaged or destroyed during demolition, and are not called out to be removed on the drawings, must be restored to original condition.
- C. Provide all labor, materials and necessary coordination for demolition work as called for by the Contract Documents. Removal shall be partial or complete as called for and shall be coordinated with other trades and new construction. Work shall also include miscellaneous items related to work indicated where not reused for new construction.
- D. The condition of the site, buildings and surroundings shall be accepted as found. Responsibility for conditions are solely the responsibility of the Contractor.
- E. Work practices and job conditions shall meet all State, Federal and Local requirements to protect life and property.
- F. Plug, cap or disconnect active lines and services as applicable. Work shall be performed by qualified, licensed personnel.
- G. If any materials which might be classified as hazardous waste are located, the Owner shall be notified. The Contractor shall then wait until notified that hazardous waste has been removed before continuing with work.
- H. Debris shall be removed from the site on a regular basis. If debris remains after completion of demolition or is allowed to obstruct other operations, the Owner and Engineer/Architect reserve the right to have material removed. All costs of said removal will be billed to the Contractor or charged against Contractor pay requests at the discretion of the Owner and Engineer/Architect. Leave site in a neat and orderly condition.

- I. Protect areas to remain from weather. Weather damage shall be repaired by the Contractor at no additional cost to the Owner.

1.10 RECORD DRAWING

- A. Provide Electrical record drawings as called for in Division 1 and include all pertinent information not shown and all changes from the original plans: route of all underground and overhead feed conduits from the main switchboard to the various panels and equipment; interconnecting conduits between branch circuit, junction boxes, and panels (actual route of conduit is not required, except for concealed panel and major equipment feeders, only how the various branch items are interconnected with conduit and number of wires); circuit numbers for all items where they do not agree with the plans. Circuit numbers on record drawings and panelboard directories must agree.

1.11 CHANGES, CONTRACT DOCUMENTS

- A. The Contract Document may be superseded by later revised Drawings or Specification Addenda prepared by the Engineer/Architect, and all reasonable changes (up to 3 feet) in location of equipment prior to its installation, shall be made without additional cost to the owner.

1.12 OPERATING AND MAINTENANCE MANUALS AND INSTRUCTION

- A. Provide one (1) bound set and (2) PDF sets (on flash drive) of complete Installation, Operating, and Maintenance Instructions or as outlined in Division 1 of these specifications. Manuals shall also include submittal data stating equipment rating and selected options for each piece of equipment, complete parts lists, a complete narrative explaining how each system is intended to operate, copies of original shop drawings, Electrical Contractor's name and address with Subcontractor Lists of names and addresses, Warranties, Warnings, etc. Generic instructions shall highlight applicable sections, when needed, to differentiate from non-relevant equipment.
- B. Upon completion of the Work, and at a designated time, provide instructions to the Owner's representative in Operation and Maintenance of all mechanical equipment. Notify Engineer/Architect of scheduled time and place.
- C. Turn over to Owner all tools supplied with equipment.

1.13 WORKMANSHIP

- A. Install all materials and equipment in a neat and workmanlike manner and in accordance with the manufacturer's recommendations, as approved by the Engineer/Architect to conform with the Contract Documents.

- B. Provide testing and start-up for all equipment as recommended by Manufacturer unless directed otherwise.

1.14 SUPERVISION

- A. Have a thoroughly competent superintendent in charge of the work at all times, experienced in the work to be done under this Contract. Replace anyone not deemed capable by the Engineer/Architect upon request immediately, by one who is satisfactory. A satisfactory superintendent, once assigned, is not to be removed without the consent of the Engineer/Architect.

1.15 TESTS

- A. After the installation is completed, and at such time as the Engineer/Architect may direct, the Contractor is to conduct an operating test for approval. Demonstrate equipment to operate in accordance with the requirements of this Specification. Perform tests in the presence of the Engineer/Architect or his authorized representative. The Contractor is to furnish all instruments and personnel required for the tests. The Contractor is to submit, in writing, to the Engineer/Architect upon completion of the Project, the measured ground resistance of each ground rod, including location of the rod and the resistance and soil conditions at the time the measurements were made.

1.16 GUARANTEES AND WARRANTIES

- A. All labor, materials and equipment shall be guaranteed by the Contractor and warranted by the manufacturer for a period of one year from the date of final acceptance by the Owner, unless longer period is specified for specific equipment. Lamp guarantee is limited to replacing all defective or non-operating lamps installed under this contract at time of substantial completion.
- B. The Contractor shall make all necessary repairs and alterations during the guarantee period as may be required by the Owner or Architect for correct system operation and to comply with the Drawings and Specifications. These repairs and alterations shall be at no additional cost to the Owner.
- C. The Owner reserves the right to make emergency system repairs without voiding the Contractor's guarantee.

1.17 TEMPORARY SERVICE

- A. Furnish and maintain temporary power and lighting system for work within boundaries of construction. Remove at completion of project. Verify safe use of system. Temporary lighting shall meet OSHA minimum levels for type of work being performed.

1.18 UTILITY COORDINATION

- A. The term utility shall apply to electrical, telephone, natural gas or cable television utilities, as required by work of this contract.
- B. Coordinate any electric utility outage with the Owner. Furnish temporary power connections as required to maintain Owner operations for extended outages exceeding 8 hours. Contractor shall include in Base Bid cost all expenses to perform after-hours pre-arranged outages.

PART 2: PRODUCTS

2.1 RACEWAYS

- A. Provide and install raceways as required for the new work. All conduits will be concealed below grade or within the structural elements of the building. Raceways will be Rigid Metal Conduit (RMC), Intermediate Metallic Conduit (IMC), or Electrical Metallic Tubing (EMT) as allowed by the NEC. Minimum raceway size will be three-quarter (3/4) inch.
- B. Heavy wall PVC conduit shall be used below grade, in concrete slabs or where not exposed to physical damage. Provide Rigid Metal Conduit (RMC) where installed above grade and exposed to elements.

2.2 CONDUCTORS

- A. Conductors will be THHN, THWN, or XHHW, sized as indicated and installed in accordance with the NEC. No. 12 AWG will be the minimum conductor size allowed for branch circuit wiring. Branch circuit lengths exceeding one hundred feet (100') for 120-volt circuits and of 277 volts, more than two hundred thirty feet (230') long, from panel to load center, to be No. 10 AWG minimum.
- B. Class 1 remote-control and signal circuit conductors will not be less than No. 14 AWG. Class 2 low-energy remote-control and signal circuit conductors will not be less than No. 16 AWG.
- C. Provide identifying wire colors as follows:

Color code wire for 120/208 volt, three phase, four wire systems as follows:

- 1. A-Phase: Black
- 2. B-Phase: Red
- 3. C-Phase: Blue
- 4. Neutral: White

5. Ground: Green

Color code wire for 277/480 volt, three phase, four wire systems as follows:

1. A-Phase: Brown
2. B-Phase: Orange
3. C-Phase: Yellow
4. Neutral: Grey
5. Ground: Green

2.3 GENERATORS; ALL SITES

A. DESCRIPTION

1. Provide a factory built, prototype tested, production tested, field tested, complete and operable emergency electric generating system, including all devices and equipment specified herein, shown on the drawings, and/or as required for each service.

B. TYPE OF SYSTEM

1. Materials and equipment shall be new and current, delivered to the site completely wired, tested, and ready for installation. This system shall include the following:
 - a. Engine-generator set rated as shown on the plans.
 - b. Engine-generator control console resiliently mounted on each generating set with complete engine start-stop control and solid-state monitoring system.
 - c. Starting batteries with battery charger for each engine-generator set.
 - d. Mounted and loose accessories, control devices, and other equipment as specified herein and/or as shown on drawings.
 - e. Such other components, accessories, parts, tests, documents, and services, as needed to meet the performance requirements of this specification.
2. The generator set and all controls shall provide for completely automatic unattended operation for the duration of a loss of normal utility power.
3. All controls shall be the standard of the manufacturer, who is engaged in the

manufacture of generators and has them available for sale on the open market. Control parts shall be identified by part numbers of this manufacturer and shall have second source listing where applicable. Control systems that are supplied by a subvendor or subcontractor of the vendor and not incorporated within the documentation drawings of the generator manufacturer are not acceptable. No dealer assembled sets are acceptable.

C. QUALITY ASSURANCE

1. This equipment, including engine-generator sets, generators, and generator controls, shall be manufactured by a single manufacturer who has been regularly engaged in the production of engine-generator sets, generators, engine auxiliaries, and controls for a minimum of ten (10) years.
2. The emergency electric generating system described herein, including these components shall be factory built, factory tested, and shipped by this single manufacturer, so there is one source of supply and responsibility for warranty, parts, and service. No dealer assembled sets are acceptable.
3. This manufacturer shall have a local representative within 120 miles of the project site, who can provide factory trained servicemen, required stock of replacement parts, and technical assistance.
4. The responsibility for performance to this specification in its entirety cannot be split up among individual suppliers of components comprising the system, but must be assumed solely by the supplier of the system.

D. SUBMITTALS

1. Where successful bidder is proposing to provide equipment as specified herein by brand name, he shall provide complete and detailed submittal data adequate to determine compliance with specifications for components of the emergency power system. Information shall show dimensions, weights, ratings, manufacturer's model numbers, wiring diagram, and other data as required for generator sets, transfer switches, and major auxiliary equipment.
2. The manufacturer shall furnish schematic and wiring diagrams for the engine-generator set; and an interconnection wiring diagram showing all connections to each individual piece of equipment which constitutes the emergency power system.
3. The manufacturer shall have printed literature and brochures describing the standard series specified (not a one of a kind fabrication), with all performance data and other information. Performance data shall be the result of test procedures in accordance with nationally recognized standards, plus such other

procedures that are judged necessary by the manufacturer to insure maximum service reliability for emergency systems, and shall be available for inspection by the Engineer upon request.

E. FACTORY TESTING

1. The intent of this specification is to provide equipment of proven reliability and compatibility. Two (2) separate series of tests shall be performed; Prototype Model Tests and Factory Production Model Tests.
2. Prototype Model Tests: The power system consisting of prime mover, generator, transfer switches, and all necessary controls must be tested as complete systems on representative engineering prototype models. The tests, being potentially damaging to the equipment tested, must not be performed on equipment sold, but on separate prototype models. A certificate certifying that this prototype testing has been accomplished, shall be submitted along with submittal data for approval. These tests shall have included:
 - a. Maximum power level (Maximum KW).
 - b. Maximum motor starting capacity (maximum KVA).
 - c. Structural soundness.
 - d. Torsigraph analysis per MIL-STD 705B, method 504.2 A torsional analysis shall be calculated using data from actual tests by the generator set manufacturer to verify freedom from torsional stresses within +10% of rated speed. Results shall be made available to the Engineer for inspection upon request. Actual torsional fatigue test must be performed on the complete prototype generator set. Calculations based on engine and generator data separately are not acceptable.
 - e. Engine-generator cooling air flow.
 - f. Transient response and steady-state governing.
 - g. Alternator temperature rise by imbedded thermocouples and by resistance method per NEMA MG1-22.40.
 - h. Harmonic analysis and voltage wave form deviation per MIL-STD-705B, method 601.4
 - i. Short-circuit test for mechanical and electrical strength. With system operating at rated volts, amps, power factor, and speed,

the generator terminals must be short circuited ten times on all phases for a duration of thirty seconds. Generator set must build up and perform normally without manual interventions of any kind such as resetting of circuit breakers or other tripping devices when the short circuit is removed.

- j. Failure mode test for voltage regulator. With generator set operating at no load, rated speed and voltage, the AC sensing circuit to the regulator must be disconnected for a period of at least one (1) hour. The generator set must be fully operative after the test, and without evidence of any kind of damage.
 - k. Endurance testing at rated load and speed is required without significant damage or failures of electrical or mechanical components occurring.
3. Production Model Tests: Before shipment of the equipment, the generator set and system components shall be tested under rated load and power factor for performance and proper functioning of control and interfacing circuits. Testing at unity power factor only (resistance banks only) is not acceptable, since KW output is affected by the higher generator efficiency at unity power factor, and the KVAR for motor starting and regulation is not correlatable between unity and rated power factor. Other tests shall include:
- a. Single step load pickup per NFPA 76A.
 - b. Transient response and steady state governing.
 - c. Alternator temperature rise by resistance method.
 - d. Functional compatibility between gen-set controls and transfer switch controls.
 - e. Fuel consumption.

F. WARRANTY

- 1. The complete standby electric power system, including engine- generator set equipped with set exerciser, and running time meter shall be warranted for a period of two (2) years or fifteen hundred (1,500) operating hours, whichever occurs first, from the date of initial start-up.
- 2. Multiple warranties for individual components (engine, generator, controls, etc.) will not be acceptable. Satisfactory warranty documents must be provided. This warranty shall be as detailed in available written documents.

3. In the judgment of the specifying authority, the manufacturer supplying the warranty for the complete system must have necessary financial strength and technical expertise with all components supplied to provide adequate warranty support.

G. ACCEPTABLE MANUFACTURERS

1. Cummins/Onan
2. Kohler.
3. Caterpillar
4. Generac
5. Pre-approved equal

2.4 GENERATOR; WATERFALL SITE

A. GENERAL

1. Each engine-generator set shall be mounted on suitable structural steel base to maintain proper alignment between components, and each set shall incorporate vibration isolators of type and quality as specified by set manufacturer.

B. ENGINE

1. Engine shall be stationary, liquid-cooled, four cycle, diesel for use with number 2 diesel fuel. Engine shall be certified by the engine manufacturer as capable of driving a generator yielding a KW rating as called for on the Drawings.
2. Engine shall be capable of driving the generator of this rating on a continuous standby basis for duration of normal utility source interruptions for ambient conditions of 85 deg. F (29.7 deg. C), 29.92 inches Hg (101 Kpa) barometric pressure, and 500 ft. elevation. Intake and exhaust valves shall be free-rotating type with exhaust valve inserts provided. Fuel injection and valves shall not require adjustment while in service. Engine shall be arranged for direct connection to an alternating current generator.

C. ENGINE EQUIPMENT

1. Starting system shall consist of a remote, two wire negative ground system with a positive shift, gear-engaging, electric starter. Two independent systems shall be provided to disconnect the starting circuit upon engine starting. Starting system shall be 24V D.C. for 100 KW and larger sizes.
2. Lubrication system shall be provided by a positive displacement, mechanical full pressure oil pump, oil cooler, full flow oil filters with replaceable elements and dipstick oil level indicator.
3. Fuel system shall provide for primary and secondary fuel filters with replaceable elements, fuel pump, automatic fuel shutoff, all mounted on the engine.

4. Replaceable dry element air cleaner.
5. Electronic governor to maintain alternator frequency; speed regulation isochronous from no-load to full-load gen-set output; with steady state regulation of plus or minus 0.25% frequency; automatic overspeed shutdown.
6. Necessary protective devices shall have necessary sensing elements located on the engine to interface with the solid-state engine monitor, as specified under "Engine-Generator Control" herein.
7. Engine gauges, including water temperature and oil pressure gauges and battery charging ammeter.
8. Battery charging alternator, with transistorized voltage regulator.
9. Engine mounted thermostatically controlled water jacket heater and oil heater for each engine to aid in quick starting. Water jacket heater shall be rated 120 volts, single phase, 60 Hz, 1500 watts. Oil heater shall be rated 120 volts, single phase, 60 HZ, 300 watts. Heaters shall be disconnected by an oil pressure switch mounted on engine whenever engine starts. Contractor shall provide proper branch circuit from normal utility power source as required.

D. ENGINE COOLING SYSTEM

1. Engine shall be radiator cooled by engine mounted (except as noted) radiator system including belt-driven pusher fan, coolant pump, and thermostat temperature control, coolant corrosion resistor filters with replaceable elements. Performance of components shall be as required by set manufacturer. Radiators shall be provided with a duct adapter flange permitting the attachment of air discharge duct directing the discharge of radiator air through the wall.
2. Provide 50% corrosion inhibited ethylene glycol antifreeze solution to fill engine cooling system.
3. Provide automatic motorized dampers for inlet air and radiator discharge air located and sized as shown on Drawings.
4. Contractor shall mount and install all exhaust components as shown on drawings and as required for code compliance. All components shall be properly sized to assure proper operation without excessive back pressure when installed as shown on the drawings. Make provisions as required for pipe expansion and contraction.

E. ENGINE EXHAUST SYSTEM

1. Exhaust silencer shall be provided for engine of size as recommended by manufacturer.

Silencer shall be chambered construction of the (industrial) type meeting Level II requirements. Silencer will be mounted inside the enclosure such that its weight is not supported by the Engine.

2. Flexible exhaust connection shall be provided as required for connection between engine exhaust manifold and exhaust line.
3. Provide suitable rain cap at the stack outlet. Provide all necessary flanges and special fittings, etc., for proper installation.
4. Contractor shall mount and install all exhaust components as shown on drawings and as required for code compliance. All components shall be properly sized to assure proper operation without excessive back pressure when installed as shown on drawings. Make provisions as required for pipe expansion and contraction.

F. ENGINE FUEL SUPPLY SYSTEM

1. Contractor shall provide all fuel system piping, which shall be black iron pipe and shall be sized per drawings or as required for proper fuel flow to engine. Contractor shall provide all supply, return, vent, and fill lines as shown on the drawings, along with all fittings. Provide flexible connections for connecting fuel system to engine.
2. Provide a UL 142 listed, minimum capacity double wall base mounted fuel tank as recommended by gen-set manufacturer with float switch and 500 gallon capacity. Tank shall be coated inside with an epoxy type material which is not affected by fuel oil. Provide with rupture alarm switch connected to annunciator panel.
3. A low fuel supply sensing device, to signal the electric set alarm annunciator panel specified herein, shall be installed on the main fuel tank. The sensing device shall be adjusted to signal low fuel level when the tank contains less than a three hour supply. The three hour supply level shall be as recommended by the manufacturer of the electric set.

G. GENERATOR SYSTEM

1. Generator shall be single-bearing, self-aligning, four-pole, synchronous type, revolving field, with amortisseur windings, with direct drive centrifugal blower for proper cooling and minimum noise with temperature compensated solid-state voltage regulator, with brushless rotating rectifier exciter system. No brushes will be allowed. Generator shall be directly connected to engine flywheel housing and driven through a flexible coupling to insure permanent alignment; gear driven generators are not acceptable under this specification. Insulation shall meet NEMA standards for Class F and additionally the maximum hot spot temperature rise shall not exceed 100 deg. C. at 40 deg. C. ambient. Generator design shall prevent potentially damaging shaft current.
2. The three-phase, broad range, reconnectible generator shall have 12 leads, brought out to

a bus bar reconnection assembly to allow connection by user to obtain any of the available voltages for the unit.

3. Voltage regulator shall be solid-state design and provide no load to full load regulation with plus or minus 1.0% of rated voltage during steady-state conditions. The generator set and regulator must sustain at least 90% of no load voltage for ten (10) seconds with 250% of rated load at near zero power factor connected to its terminals. A rheostat shall provide a minimum of plus or minus 5% voltage adjustment from rated value.
4. The alternator, exciter, and voltage regulator shall be designed and manufactured by the generator set manufacturer so that the characteristics shall be matched to the torque curve of the prime mover.
5. Generator design shall be of the self-protecting type, as demonstrated by the prototype short-circuit test as described under "Testing" herein.

H. ENGINE-GENERATOR CONTROL

1. Provide a lighted, unit mounted control console that is factory built, wired, tested, and shock-mounted by the generator manufacturer. Control console shall be a rigid metal enclosure, mounted on the generator end of the set, containing all devices as specified herein, shown on the drawings, and as required for described functions. Control console shall include a control section, control panel, and cable termination box. Hinged front-opening doors shall provide required access to all components; removable top and side panels shall provide required access to cable entry and terminations. Control wire shall have termination identification on each wire for ease of tracing. Terminal blocks for control wires which run between generator set controls and automatic transfer switches shall have identical terminal on both ends. Nameplates shall be provided to identify each device or function and shall be silkscreened white on a black background. Metal enclosures shall be chemically treated and painted manufacturer's standard color with black control panels.
2. Engine-generator control shall include the following for each unit:
 - a. DC engine controls including oil pressure gauge, coolant temperature gauge, and charge rate ammeter.
 - b. A manual selector switch providing three (3) control positions: RUN-STOP-REMOTE. The Run position shall permit the engine to be started locally at the set and run unloaded; the STOP position shall serve as the RESET for alarm shutdown conditions. REMOTE position allows starting from transfer switches.
 - c. Complete two-wire start-stop controls will start the engine on closing contact, and stop the engine on opening contact.

- d. Solid-state engine monitoring system of modular design with individual status indicating lamps and signal circuits for connection to remote annunciator, and common alarm terminal. Status lamps shall have lamp test switch and shall indicate:

Overcrank lockout	red
Low oil pressure pre-alarm and shutdown.	red
Overspeed shutdown	red
High water temp, pre-alarm and shutdown	red
Low engine temperature alarm lamp only	red

Contacts for remote indication of pre-alarm and engine shutdown, all at remote annunciator.

- e. Cranking limiter with 45 second cranking cycle with lockout.
- f. Solid-state voltage regulator.
- g. Manual reset field circuit breaker.
- h. All wiring for connection to remote devices (including automatic transfer switches and annunciators) all wired to identically numbered and labeled terminal blocks. Contractor shall install stranded control wires for remote devices, properly sized per manufacturer's recommendations.
- i. Panel light and switch.
- j. AC output controls include:
 - Voltmeter - 3-1/2", 2%.
 - Ammeter - 3-1/2", 2%.
 - Voltmeter - Ammeter phase selector switch with "OFF" position.
 - Frequency Meter
 - Running Time Meter
 - Voltage Adjusting Rheostat
 - Speed Control Potentiometer

I. AUXILIARY EQUIPMENT

- 1. Starting Batteries: A heavy-duty, diesel-starting, lead-acid battery set shall be provided for each engine and shall be mounted as recommended by the gen-set manufacturer, provide battery trays as required. Provide all intercell and connecting battery cables. Batteries shall be supplied dry-charged, and electrolyte added shortly prior to start-up. Battery ampere-hour ratings shall be SAE 20 hour rates. Provide two 12V, 225 A.H. batteries for 24V DC system.

2. Battery Charger(s): Provide an SCR voltage regulated battery charger with float, taper, and equalize charge settings for each engine- generator set. Contractor shall provide a 120 VAC circuit from normal power. Where 24V chargers are required, provide 6A charge rate.
3. A clock exerciser shall be furnished to automatically start the electric set at regular intervals and allow it to run for a preset time period, minimum of 30 minutes per week. The clock shall operate from a 120 VAC, 60 Hz normal power circuit; contractor shall provide circuit as required.
4. A 120 VAC heater with thermostat shall be provided within generator set control panel to eliminate condensation. Contractor shall provide 120 volt circuit from normal utility source as required.

J. REMOTE ANNUNCIATOR

1. Provide remote annunciators for generator sets as shown on Drawings with light emitting diode (L.E.D.) Indicators of proper type and voltage.
2. Annunciators shall include the following:
 - a. Generating.
 - b. Overcrank.
 - c. Low Oil Pressure.
 - d. High Coolant Temperature.
 - e. Low Coolant Temperature.
 - f. Overspeed.
 - g. Low Fuel.
 - h. Low Battery Voltage.
 - i. High Battery Voltage.

K. WEATHERPROOF HOUSING

1. Provide a primed and painted minimum 16 gauge steel Level II, Sound attenuating enclosure around the engine-generator and controls. The housing shall provide for full ventilation during operation. Provide lockable access panels and doors for inspection and servicing components.
2. Level II shall operate at a max of 78 dBA.
3. Level II shall be achieved by acoustic barriers, insulation, isolation mounts, silencer interior enclosure mounting, and cooling air attenuation.

2.4 GENERATOR; RIVERSIDE SITE

A. GENERAL

1. Each engine-generator set shall be mounted on suitable structural steel base to maintain proper alignment between components, and each set shall incorporate vibration isolators of type and quality as specified by set manufacturer.

B. ENGINE

1. Engine shall be stationary, liquid-cooled, four cycle, diesel for use with number 2 diesel fuel. Engine shall be certified by the engine manufacturer as capable of driving a generator yielding a KW rating as called for on the Drawings.
2. Engine shall be capable of driving the generator of this rating on a continuous standby basis for duration of normal utility source interruptions for ambient conditions of 85 deg. F (29.7 deg. C), 29.92 inches Hg (101 Kpa) barometric pressure, and 500 ft. elevation. Intake and exhaust valves shall be free-rotating type with exhaust valve inserts provided. Fuel injection and valves shall not require adjustment while in service. Engine shall be arranged for direct connection to an alternating current generator.

C. ENGINE EQUIPMENT

1. Starting system shall consist of a remote, two wire negative ground system with a positive shift, gear-engaging, electric starter. Two independent systems shall be provided to disconnect the starting circuit upon engine starting. Starting system shall be 12V D.C. for 15 to 60 KW sizes, 24V D.C. for 100 KW and larger sizes.
2. Lubrication system shall be provided by a positive displacement, mechanical full pressure oil pump, oil cooler, full flow oil filters with replaceable elements and dipstick oil level indicator.
3. Fuel system shall provide for primary and secondary fuel filters with replaceable elements, electric fuel transfer pump, automatic fuel shutoff, all mounted on the engine.
4. Replaceable dry element air cleaner.
5. Electronic governor to maintain alternator frequency; speed regulation isochronous from no-load to full-load gen-set output; with steady state regulation of plus or minus 0.25% frequency; automatic overspeed shutdown.
6. Necessary protective devices shall have necessary sensing elements located on the engine to interface with the solid-state engine monitor, as specified under "Engine-Generator Control" herein.
7. Engine gauges, including water temperature and oil pressure gauges and battery charging ammeter.
8. Battery charging alternator, 35-amp, of proper D.C. voltage, with transistorized voltage regulator.

9. Engine mounted thermostatically controlled water jacket heater and oil heater for each engine to aid in quick starting. Water jacket heater shall be rated 120 volts, single phase, 60 Hz, 1500 watts. Oil heater shall be rated 120 volts, single phase, 60 HZ, 300 watts. Heaters shall be disconnected by an oil pressure switch mounted on engine whenever engine starts. Contractor shall provide proper branch circuit from normal utility power source as required.

D. ENGINE COOLING SYSTEM

1. Engine shall be radiator cooled by engine mounted (except as noted) radiator system including belt-driven pusher fan, coolant pump, and thermostat temperature control, coolant corrosion resistor filters with replaceable elements. Performance of components shall be as required by set manufacturer. Radiators shall be provided with a duct adapter flange permitting the attachment of air discharge duct directing the discharge of radiator air through the wall.
2. Provide 50% corrosion inhibited ethylene glycol antifreeze solution to fill engine cooling system.
3. Provide automatic motorized dampers for inlet air and radiator discharge air located and sized as shown on Drawings.
4. Contractor shall mount and install all exhaust components as shown on drawings and as required for code compliance. All components shall be properly sized to assure proper operation without excessive back pressure when installed as shown on the drawings. Make provisions as required for pipe expansion and contraction.

E. ENGINE EXHAUST SYSTEM

1. Exhaust silencer shall be provided for engine of size as recommended by manufacturer. Silencer shall be chambered construction of the (industrial) type meeting Level II requirements. Silencer will be mounted inside the enclosure such that its weight is not supported by the Engine.
2. Flexible exhaust connection shall be provided as required for connection between engine exhaust manifold and exhaust line.
3. Provide suitable rain cap at the stack outlet. Provide all necessary flanges and special fittings, etc., for proper installation.
4. Contractor shall mount and install all exhaust components as shown on drawings and as required for code compliance. Connect generator exhaust to existing exhaust stack as shown on drawings in accordance with applicable codes and standards. All components shall be properly sized to assure proper operation without excessive back pressure when installed as shown on drawings. Make provisions as required for pipe expansion and contraction. Contractor to include all required intermediate supports required for proper

support of exhaust extension.

F. ENGINE FUEL SUPPLY SYSTEM

1. Contractor shall provide all fuel system piping, which shall be black iron pipe and shall be sized per drawings or as required for proper fuel flow to engine. Contractor shall provide all supply, return, vent, and fill lines as shown on the drawings, along with all fittings. Provide flexible connections for connecting fuel system to engine.
2. Provide a UL 142 listed, minimum capacity double wall base mounted fuel tank as recommended by gen-set manufacturer with float switch and 500 gallon capacity. Tank shall be coated inside with an epoxy type material which is not affected by fuel oil. Provide with rupture alarm switch connected to annunciator panel.
3. A low fuel supply sensing device, to signal the electric set alarm annunciator panel specified herein, shall be installed on the main fuel tank. The sensing device shall be adjusted to signal low fuel level when the tank contains less than a three hour supply. The three hour supply level shall be as recommended by the manufacturer of the electric set.

G. GENERATOR SYSTEM

1. Generator shall be single-bearing, self-aligning, four-pole, synchronous type, revolving field, with amortisseur windings, with direct drive centrifugal blower for proper cooling and minimum noise with temperature compensated solid-state voltage regulator, with brushless rotating rectifier exciter system. No brushes will be allowed. Generator shall be directly connected to engine flywheel housing and driven through a flexible coupling to insure permanent alignment; gear driven generators are not acceptable under this specification. Insulation shall meet NEMA standards for Class F and additionally the maximum hot spot temperature rise shall not exceed 100 deg. C. at 40 deg. C. ambient. Generator design shall prevent potentially damaging shaft current.
2. The three-phase, broad range, reconnectible generator shall have 12 leads, brought out to a bus bar reconnection assembly to allow connection by user to obtain any of the available voltages for the unit.
3. Voltage regulator shall be solid-state design and provide no load to full load regulation with plus or minus 1.0% of rated voltage during steady-state conditions. The generator set and regulator must sustain at least 90% of no load voltage for ten (10) seconds with 250% of rated load at near zero power factor connected to its terminals. A rheostat shall provide a minimum of plus or minus 5% voltage adjustment from rated value.
4. The alternator, exciter, and voltage regulator shall be designed and manufactured by the generator set manufacturer so that the characteristics shall be matched to the torque curve of the prime mover.

5. Generator design shall be of the self-protecting type, as demonstrated by the prototype short-circuit test as described under "Testing" herein.

H. ENGINE-GENERATOR CONTROL

1. Provide a lighted, unit mounted control console that is factory built, wired, tested, and shock-mounted by the generator manufacturer. Control console shall be a rigid metal enclosure, mounted on the generator end of the set, containing all devices as specified herein, shown on the drawings, and as required for described functions. Control console shall include a control section, control panel, and cable termination box. Hinged front-opening doors shall provide required access to all components; removable top and side panels shall provide required access to cable entry and terminations. Control wire shall have termination identification on each wire for ease of tracing. Terminal blocks for control wires which run between generator set controls and automatic transfer switches shall have identical terminal on both ends. Nameplates shall be provided to identify each device or function and shall be silkscreened white on a black background. Metal enclosures shall be chemically treated and painted manufacturer's standard color with black control panels.

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- a. DC engine controls including oil pressure gauge, coolant temperature gauge, and charge rate ammeter.
- b. A manual selector switch providing three (3) control positions: RUN-STOP-REMOTE. The Run position shall permit the engine to be started locally at the set and run unloaded; the STOP position shall serve as the RESET for alarm shutdown conditions. REMOTE position allows starting from transfer switches.
- c. Complete two-wire start-stop controls will start the engine on closing contact, and stop the engine on opening contact.
- d. Solid-state engine monitoring system of modular design with individual status indicating lamps and signal circuits for connection to remote annunciator, and common alarm terminal. Status lamps shall have lamp test switch and shall indicate:

Overcrank lockout	red
Low oil pressure pre-alarm and shutdown.	red
Overspeed shutdown	red
High water temp, pre-alarm and shutdown	red
Low engine temperature alarm lamp only	red

Contacts for remote indication of pre-alarm and engine shutdown, all at remote annunciator.

- e. Cranking limiter with 45 second cranking cycle with lockout.
- f. Solid-state voltage regulator.
- g. Manual reset field circuit breaker.
- h. All wiring for connection to remote devices (including automatic transfer switches and annunciators) all wired to identically numbered and labeled terminal blocks. Contractor shall install stranded control wires for remote devices, properly sized per manufacturer's recommendations.
- i. Panel light and switch.
- j. AC output controls include:
 - Voltmeter - 3-1/2", 2%.
 - Ammeter - 3-1/2", 2%.
 - Voltmeter - Ammeter phase selector switch with "OFF" position.
 - Frequency Meter
 - Running Time Meter
 - Voltage Adjusting Rheostat
 - Speed Control Potentiometer

I. AUXILIARY EQUIPMENT

1. Starting Batteries: A heavy-duty, diesel-starting, lead-acid battery set shall be provided for each engine and shall be mounted as recommended by the gen-set manufacturer, provide battery trays as required. Provide all intercell and connecting battery cables. Batteries shall be supplied dry-charged, and electrolyte added shortly prior to start-up. Battery ampere-hour ratings shall be SAE 20 hour rates. Provide two 6V, 135 A.H. batteries for 12V DC system. Provide two 12V, 225 A.H. batteries for 24V DC system.
2. Battery Charger(s): Provide an SCR voltage regulated battery charger with float, taper, and equalize charge settings for each engine- generator set. Contractor shall provide a 120 VAC circuit from normal power. Where 12V chargers are required, provide 10A charge rate. Where 24V chargers are required, provide 6A charge rate.
3. A clock exerciser shall be furnished to automatically start the electric set at regular intervals and allow it to run for a preset time period, minimum of 30 minutes per week. The clock shall operate from a 120 VAC, 60 Hz normal power circuit; contractor shall provide circuit as required.
4. A 120 VAC heater with thermostat shall be provided within generator set control panel to eliminate condensation. Contractor shall provide 120 volt circuit from normal utility source as required.

J. REMOTE ANNUNCIATOR

1. Provide remote annunciators for generator sets as shown on Drawings with light emitting diode (L.E.D.) Indicators of proper type and voltage.
2. Annunciators shall include the following:
 - a. Generating.
 - b. Overcrank.
 - c. Low Oil Pressure.
 - d. High Coolant Temperature.
 - e. Low Coolant Temperature.
 - f. Overspeed.
 - g. Low Fuel.
 - h. Low Battery Voltage.
 - i. High Battery Voltage.

K. WEATHERPROOF HOUSING

1. Provide a primed and painted minimum 16 gauge steel Level II, Sound attenuating enclosure around the engine-generator and controls. The housing shall provide for full ventilation during operation. Provide lockable access panels and doors for inspection and servicing components.
2. Level II shall operate at a max of 78 dBA.
3. Level II shall be achieved by acoustic barriers, insulation, isolation mounts, silencer interior enclosure mounting, and cooling air attenuation.

2.5 AUTOMATIC TRANSFER SWITCH

A. SUBMITTALS AND GENERAL REQUIREMENTS

1. Product Data: For each type of product indicated. Include rated capacities, weights, operating characteristics, furnished specialties, and accessories. Data is required for the transfer switch mechanism, control system, cabinet, and protective devices specifically listed for use with each transfer switch. Include steady state and fault current ratings, weights, operating characteristics, and furnished specialties and accessories.
2. Shop Drawings: Dimensioned plans, elevations, sections, and details showing minimum clearances, conductor entry provisions, gutter space, installed features and devices, and material lists for each switch specified. Drawings to also indicate Internal electrical wiring and control drawings, interconnection wiring diagrams, showing recommended conduit runs and point-to-point terminal connections to generator set and installation and mounting instructions,

including information for proper installation of equipment to meet seismic requirements.

3. **Manufacturer and Supplier Qualification Data:** The manufacturer of this equipment shall have produced similar equipment for a minimum period of 10 years. When requested, an acceptable list of installations with similar equipment shall be provided demonstrating compliance with this requirement.
4. **Operation and Maintenance Data:** For each type of product to include in emergency, operation, and maintenance manuals. In addition to items specified in Division 01 Section "Operation and Maintenance Data," include: Features and operating sequences, both automatic and manual; List of all factory settings of relays, timers and protective devices; provide setting and calibration instructions where applicable.
5. **Warranty documents:** The manufacturer's standard warranty shall in no event be for a period of less than two (2) years from date of initial start-up of the system and shall include repair parts, labor, and reasonable travel expense necessary for repairs at the job site. Submittals received without written warranties as specified will be rejected in their entirety. Note that start-up for this system may be delayed by up to 6 months after generator delivery. The generator supplier shall be responsible for providing and coordinating this warranty. The warranty shall be comprehensive. No deductibles shall be allowed for travel time, service hours, repair parts cost, and etc. during the minimum noted warranty period described above.

B. QUALITY ASSURANCE

1. **Manufacturer Qualifications:** The equipment supplier shall maintain a service center capable of providing training, parts, maintenance and emergency repairs to equipment, including transfer switch, generator sets and remote monitoring equipment at the site within a response period of less than eight hours from time of notification. The transfer switch shall be serviced by technicians employed by, and specially trained and certified by, the generator set supplier and the supplier shall have a service organization that is factory-certified in both generator set and transfer switch service. The supplier shall maintain an inventory of critical replacement parts at the local service organization, and in service vehicles. The service organization shall be on call 24 hours per day, 365 days per year.
2. **Manufacturers:** Subject to compliance with requirements, provide products by the following:
 - a. ASCO
 - b. Onan
 - c. Pre-approved equal.

3. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked as suitable for use in emergency, legally required or optional standby use as appropriate for the connected load.
4. All transfer switches are to be obtained through one source from a single manufacturer. The generator set manufacturer shall warrant transfer switches to provide a single source of responsibility for products provided.

C. GENERAL TRANSFER-SWITCH PRODUCT REQUIREMENTS

1. Indicated Current Ratings: Apply as defined in UL 1008 for continuous loading and total system transfer.
2. Fault-Current Closing and Withstand Ratings: UL 1008 WCR ratings must be specifically listed as meeting the requirements for use with protective devices at installation locations, under specified fault conditions. Withstand and closing ratings shall be based on use of the same set of contacts for the withstand test and the closing test.
3. Solid-State Controls: All settings should be accurate to +/- 2% or better over an operating temperature range of - 40 to + 60 degrees C (- 40 to + 140 degrees F).
4. Resistance to Damage by Voltage Transients: Components shall meet or exceed voltage-surge withstand capability requirements when tested according to IEEE C62.41. Components shall meet or exceed voltage-impulse withstand test of NEMA ICS 1.
5. Electrical Operation: Accomplished by a non-fused, momentarily energized solenoid or electric motor operator mechanism, mechanically and electrically interlocked in both directions (except that mechanical interlock is not required for closed transition switches).
6. Switch Characteristics: Designed for continuous-duty repetitive transfer of full-rated current between active power sources.
 - a. Transfer switches shall be double-throw and mechanically held in the Source 1 and Source 2 positions.
 - b. Main switch contacts shall be high pressure silver alloy. Contact assemblies shall have arc chutes for positive arc extinguishing. Arc chutes shall have insulating covers to prevent inter-phase flashover.
 - c. Contacts shall be operated by a high-speed electrical mechanism that causes contacts to open or close within three electrical cycles from signal.
 - d. The transfer switch operation shall include the ability to switch to an open position (both sources disconnected) for the purpose of load shedding from the generator set.
 - e. The power transfer mechanism shall include provisions for manual

operation under load with the enclosure door closed. Manual operation may be electromechanical or mechanical, but must be coordinated with control function.

- f. Transfer switch shall be provided with flame retardant transparent covers to allow viewing of switch contact operation but prevent direct contact with components that could be operating at line voltage levels.
- g. The transfer switch shall include the mechanical and control provisions necessary to allow the device to be field-configured for operating speed. Transfer switch operation with motor loads shall be as is recommended in NEMA MG1.
 - i. Phase angle monitoring/timing equipment is not an acceptable substitute for this functionality
- 7. Control: Transfer switch control shall be capable of communicating with the genset control, other switches and remote programming devices over a high-speed network interface. Provide all required cabling, software, connectors and programming.
- 8. Factory wiring: Transfer switch internal wiring shall be composed of pre-manufactured harnesses that are permanently marked for source and destination. Harnesses shall be connected to the control system by means of locking disconnect plug(s), to allow the control system to be easily disconnected and serviced without disconnecting power from the transfer switch mechanism
- 9. Terminals: Terminals shall be pressure type and appropriate for all field wiring. Control wiring shall be equipped with suitable lugs, for connection to terminal strips.
- 10. Enclosures: All enclosures shall be third-party certified for compliance to NEMA ICS 6 and UL 508, unless otherwise indicated:
 - a. The enclosure shall provide wire bend space in compliance to the latest version of NFPA70, regardless of the direction from which the conduit enters the enclosure.
 - b. Exterior cabinet doors shall provide complete protection for the system's internal components. Doors must have permanently mounted key-type latches. Bolted covers or doors are not acceptable.
 - c. Transfer switches shall be provided in enclosures that are third party certified for their intended environment per NEMA requirements.

D. AUTOMATIC TRANSFER SWITCHES

- 1. Comply with requirements for Type 10 (10 second transfer), Level 1 equipment according to NFPA 110.
- 2. Indicated current ratings:
 - a. Main contacts shall be rated for 600 VAC minimum.
 - b. Transfer switches shall be rated to carry 100% of rated current

continuously in the enclosure supplied, in ambient temperatures of -40 to +60 degrees C (-40 to +140 degrees F), relative humidity up to 95% (non-condensing), and altitudes up to 10,000 feet (3000 meters).

3. Manual Switch Operation: Manual operation may be electromechanical or mechanical, but must be coordinated with control function
4. Control: Transfer switch control shall be provided with necessary equipment and software to communicate with the genset control, other transfer switches, remote annunciation equipment, and other devices over a high speed control network.
5. Transfer switches shall be provided with a neutral bus and lugs. The neutral bus shall be sized to carry 100% of the current designated on the switch rating.
6. Automatic Transfer Switch Control Features
 - a. The transfer switch control system shall be configurable in the field for any operating voltage level up to 480VAC. Voltage sensing shall be monitored based on the normal voltage at the site. Systems that utilize voltage monitoring based on standard voltage conditions that are not field configurable are not acceptable.
 - b. The transfer switch shall be configurable to accept a relay contact signal and a network signal from an external device for load shedding purposes. On receipt of this signal, the transfer switch shall switch to a neutral position when connected to Source 2. If Source 1 is available when the load-shed signal is received, the transfer switch shall connect to Source 1.
 - c. The transfer switch shall be configurable to accept a relay contact signal and a network signal from an external device to prevent transfer to the generator service.
 - d. The transfer switch shall provide a relay contact signal prior to transfer or re-transfer. The time period before and after transfer shall be adjustable in a range of 0 to 60 seconds.
 - e. The control system shall be designed and prototype tested for operation in ambient temperatures from - 40 degrees C to + 60 degrees C (- 40 to +140 degrees F). It shall be designed and tested to comply with the requirements of the noted voltage and RFI/EMI standards.
 - f. The control shall have optically isolated logic inputs, high isolation transformers for AC inputs and relays on all outputs, to provide optimum protection from line voltage surges, RFI and EMI.
7. Transfer Switch Control Panel: The transfer switch shall have a microprocessor-based control with a sealed membrane panel incorporating pushbuttons for operator-controlled functions, and LED lamps for system status indicators. The panel shall also include an alphanumeric display for detailed system information. Panel display and indicating lamps shall include permanent labels.
 - a. The indicator panel LEDs shall display:
 - i. Which source the load is connected to (Source 1 or Source 2)

- ii. Which source or sources are available
 - iii. When switch is not set for automatic operation, the control is disabled or the bypass switch is in use
 - iv. When the switch is in test/exercise mode
 - b. The indicator shall have pushbuttons that allow the operator to activate the following functions:
 - i. Activate pre-programmed test sequence
 - ii. Override programmed delays, and immediately go to the next operation
 - iii. Reset the control by clearing any faults
 - iv. Test all of the LEDs by lighting them simultaneously
 - c. The display panel shall be password-protected, and allow the operator to view and make adjustments and:
 - i. Set nominal voltage and frequency for the transfer switch
 - ii. Adjust voltage and frequency sensor operation set points
 - iii. Set up time clock functions
 - iv. Set up load sequence functions
 - v. Enable or disable control functions including program transition
 - vi. View real-time clock data, operation log (hours connected, times transferred, failures) and service history
- 8. Control Functions: Functions managed by the control shall include:
 - a. Software adjustable time delays:
 - i. Engine start (prevents nuisance genset starts in the event of momentary power fluctuation): 0 to 120 seconds (default 3 sec)
 - ii. Transfer normal to emergency (allows genset to stabilize before load is transferred): 0 to 120 seconds (default 3 sec)
 - iii. Re-transfer emergency to normal (allows utility to stabilize before load is transferred from genset): 0 to 30 minutes (default 3 sec)
 - iv. Engine cooldown: 0 to 30 minutes (default 10 min)
 - v. Programmed transition: 0 to 60 seconds (default 3 sec)
 - b. Undervoltage sensing: three-phase normal, three-phase emergency source.
 - i. Pickup: 85 to 98% of nominal voltage (default 90%)
 - ii. Dropout: 75 to 98% of nominal voltage (default 90%)
 - iii. Dropout time delay: 0.1 to 1.0 seconds (default 0.5 sec)
 - iv. Accurate to within +/- 2% of nominal voltage
 - c. Over-voltage sensing: three-phase normal, three-phase emergency source.
 - i. Pickup: 95 to 99% of dropout setting (default 95%)
 - ii. Dropout: 105 to 135% of nominal voltage (default 110%)
 - iii. Dropout time delay: 0.5 to 120 seconds (default 3 sec)

- iv. Accurate to within +/- 2% of nominal voltage
 - d. Over/under frequency sensing:
 - i. Pickup: +/- 5 to +/-20% of nominal frequency (default 10%)
 - ii. Dropout: +/-1% beyond pickup (default 1%)
 - iii. Dropout time delay: 0.1 to 15.0 seconds (default 5 sec)
 - iv. Accurate to within +/- 0.05 Hz
 - e. Voltage imbalance sensing:
 - i. Dropout: 2 to 10% (default 4%)
 - ii. Pickup: 90% of dropout
 - iii. Time delay: 2.0 to 20 seconds (default 5 sec)
 - f. Phase rotation sensing:
 - i. Time delay: 100 msec
 - g. Loss of single-phase detection:
- 9. Control features shall include:
 - a. Programmable genset exerciser: A field-programmable control shall periodically start and run the generator with or without transferring the load for a preset time period, then re-transfer and shut down the generator after a preset cool-down period.
 - b. In event of a loss of power to the control, all control settings, real-time clock setting and the engine start-time delay setting will be retained.
 - c. The system continuously logs information including the number of hours each source has been connected to the load, the number of times transferred, and the total number of times each source has failed. An event recorder stores information, including time and date-stamp, for up to 50 events.
- 10. Control Interface
 - a. Provide one set Form C auxiliary contacts on both sides, operated by transfer switch position, rated 10 amps 250 VAC.
 - b. The transfer switch shall be provided with a network communication card, and configured to allow network-based communication with the transfer switch and other network system components, including the generator set(s) provided for the Project.
 - c. Unassigned Auxiliary Contacts: Two normally open, 1-pole, double-throw contacts for each switch position, rated 10A at 250 VAC.
- 11. Engine Starting Contacts
 - a. One isolated and normally closed pair of contacts rated 10A at 32 VDC minimum.

E. REMOTE CONTROL/ANNUNCIATER PANEL

- 1. Coordinate any interface and wiring requirements with the generator provider.

PART 3: EXECUTION

3.1 GENERAL

- A. Install all equipment in accordance with the manufacturer's recommendations, UL listing requirements and accepted practices.
- B. Provide appropriate firestopping material around all penetrations through fire-rated walls.

3.2 COORDINATION

- A. To avoid conflicts, coordinate exact placement of electrical items and elevation of conduit routes with other trades prior to installation. Any conflicts that cannot be resolved between trades must be brought to the attention of the Engineer/Architect in writing and resolved before proceeding.
- B. Temperature control wiring as called for or referenced by the Electrical Drawings and Specifications will be provided by the Electrical Contractor. All additional wiring required to provide a complete system of temperature regulation is to be provided by the Temperature Control Trade. The Temperature Control Trade will provide all necessary drawings and coordination to the Electrical Contractor for determining panel locations, connection points, wire counts, etc.

3.3 ACCESSIBILITY

- A. Maintain accessibility to all equipment for operation, maintenance and repair.

3.4 CUTTING AND PATCHING

- A. Lay out work carefully in advance. Where cutting channeling, chasing or drilling of floors, walls, partitions, ceilings or other surfaces is necessary, the work is to be carefully done. Any damage to the building, piping or other equipment is to be repaired by skilled mechanics of the trades involved at no additional cost to the Owner. This Contractor/Trade will be responsible for all cutting and patching related to the Work of this Division of the Specifications.
- B. Give all fabricated steel supports, hangers, brackets, exposed conduits, panelboard boxes and platforms installed under this Contract, two (2) coats of high grade enamel.

3.5 INSTALLATION; TRANSFER SWITCH

- A. Coordinate installation requirements with installing contractor. Provide telephone and email support to the installing contractor as required to assure proper installation procedures and requirements.
- B. Coordinate start-up schedule with the installing contractor, construction manager and generator start-up personnel.

3.6 INSTALLATION AND TESTING; GENERATOR

A INSTALLATION

1. Emergency electric generating set, and all components shall be installed, including all connections, as indicated on drawings and wiring diagrams, or specified herein, and in accordance with approved shop drawings, manufacturer's instructions, and manufacturer's standard specification and dimension sheets.
2. The Contractor shall provide the fuel for the initial fill of the main storage tank.
3. Contractor shall mount and install all exhaust components as shown on drawings and as required for code compliance. Connect generator exhaust to existing exhaust stack as shown on drawings in accordance with applicable codes and standards. All components shall be properly sized to assure proper operation without excessive back pressure when installed as shown on drawings. Make provisions as required for pipe expansion and contraction. Contractor to include all required intermediate supports required for proper support of exhaust extension.

B. FIELD TESTS

1. The complete installation shall be initially started and checked out for operational compliance by factory-trained representative of the manufacturer of the generator set. The engine lubrication oil and antifreeze, as recommended by the manufacturer, for operation under environmental conditions specified, shall be provided by the supplier of the generator set. Technical representatives of the generator set manufacturer shall be present during the field tests to verify operational compliance with the transfer switches specified elsewhere.
2. Upon completion of the initial start-up and system checkout, the supplier of the generator shall perform a field test, with the Engineer notified in advance, to demonstrate load carrying capability, stability, voltage and frequency.
3. The generator set shall be run for six hours continuously with a load bank. Load shall not exceed 50% of gen-set rating for first one-half (1/2) hour, during first initial run for

proper engine break-in. Records shall be maintained throughout this period to record water temperature, oil pressure, ambient air temperature, voltage, current, frequency, kilowatts, and power factor. The above data shall be recorded at 15 minute intervals throughout the test. There shall be a 10 minute unloaded run at the conclusion of the test to allow engine to cool before shutdown. Three (3) copies of the field test data shall be furnished to the Engineer. The Contractor shall make all necessary hookups to accomplish field tests and shall furnish all fuel necessary for field test and startup.

4. Simulated power failure test - generator set shall be made ready for the automatic operation and started by means of the test transfer switches on the automatic transfer switch. Unit shall run for the duration of all time delays and then automatically shut down.

C. OWNER'S INSTRUCTIONS

1. Instructions, Drawings, Parts, and Operation Information: Two copies of complete instructions shall be supplied to owner prior to final acceptance. Material shall be in booklet form and shall consist of operating and maintenance manuals, parts manuals, dimensional drawings, unit wiring diagrams and schematics, interconnection wiring diagrams, and necessary information for proper operation, service, and maintenance of the equipment and major components supplied.
2. Owner Orientation: A representative of the supplier shall meet with a representative of the Owner at the time of final acceptance tests and shall review the operation and parts books, correct starting and control methods, and recommend preventive maintenance procedures.

LOAD BANK TEST RESULTS

Time (hours)	Volts	Amps	Kilowatts	Power Factor	Freq.	Oil Pressure	Water Temp	Ambient Temp
0.25								
0.50								
0.75								
1.00								
1.25								
1.50								
1.75								
2.00								
2.25								
2.50								
2.75								
3.00								
3.25								
3.50								
3.75								
4.00								

Generator
 Manufacturer _____

Generator
 Size _____

Fuel Type _____

Company _____

Name _____

Date _____

END OF SECTION

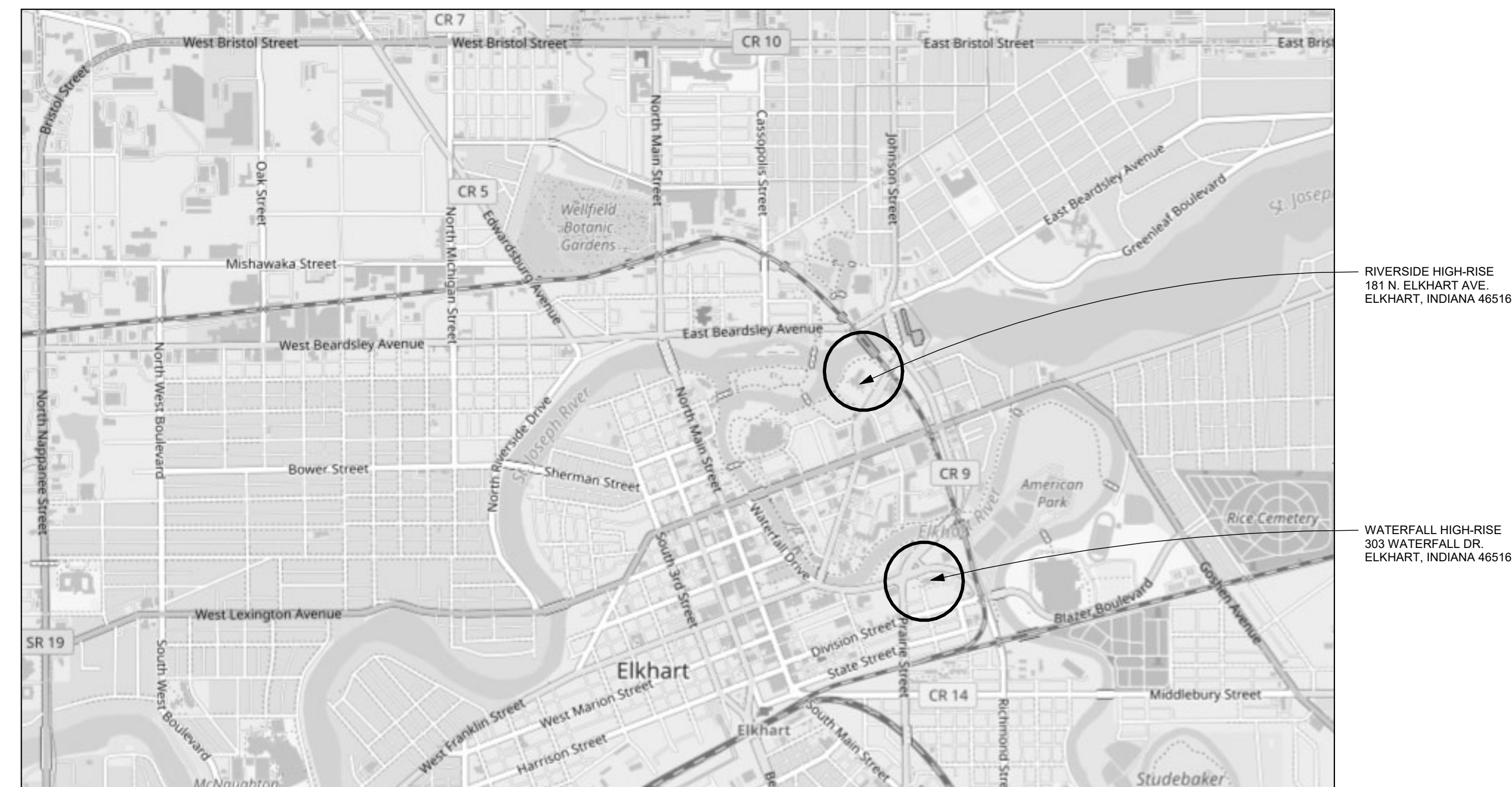
**DIVISION XXVII thru DIVISION XXXII
Not Used**

RIVERSIDE HIGH-RISE AND WATERFALL HIGH-RISE GENERATOR REPLACEMENT

ELKHART HOUSING AUTHORITY

RIVERSIDE HIGH-RISE
181 N. ELKHART AVE.
ELKHART, INDIANA 46516

WATERFALL HIGH-RISE
303 WATERFALL DR.
ELKHART, INDIANA 46516



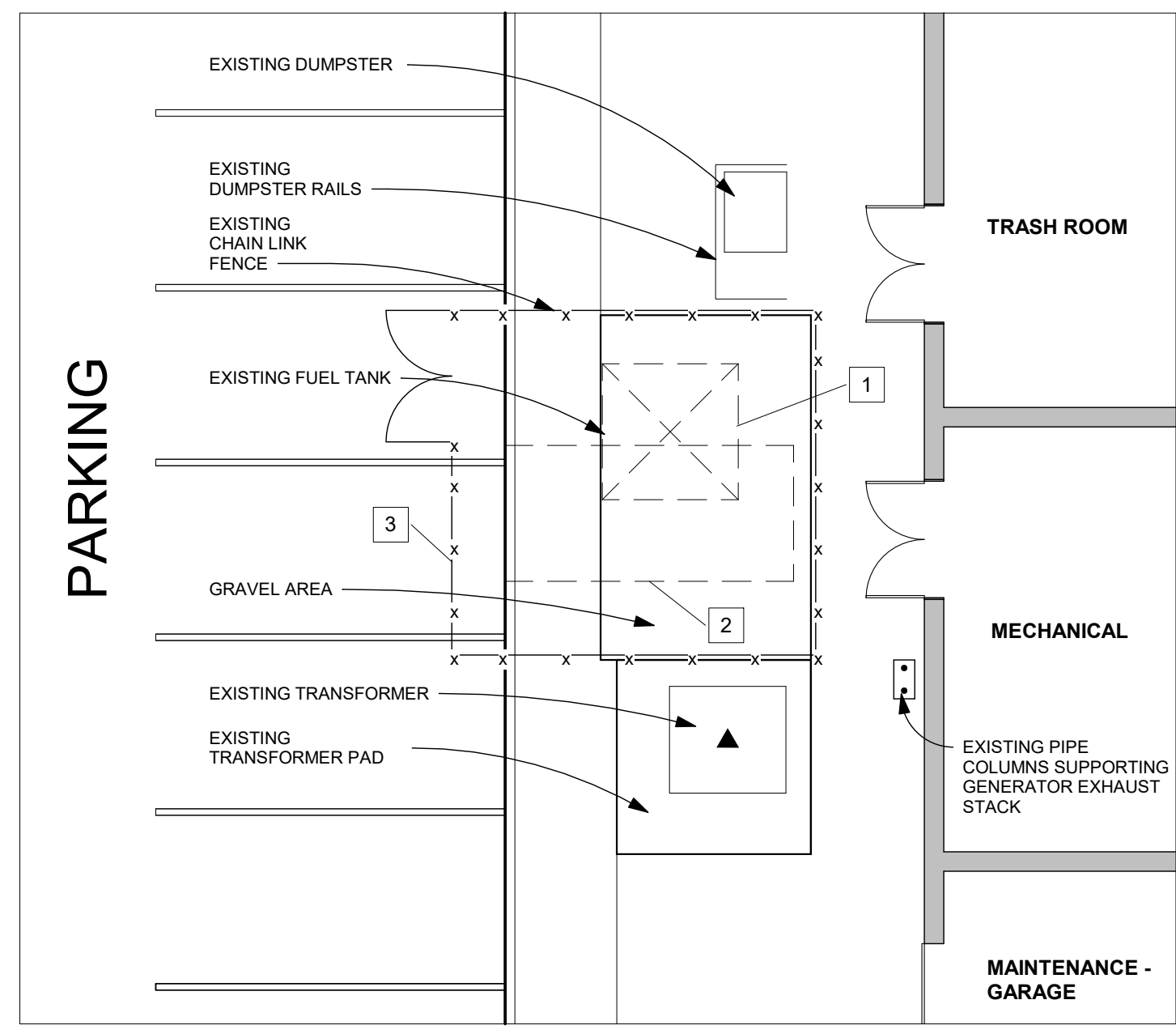
PROJECT LOCATION MAP

INDEX OF DRAWINGS

- GENERAL
 - G1.0 COVER SHEET
- ARCHITECTURAL
 - A1.0 RIVERSIDE HIGH-RISE SITE PLAN
- ELECTRICAL
 - E0.1 GENERAL ELECTRICAL NOTES
 - E1.0 RIVERSIDE DEMOLITION PLANS
 - E1.1 RIVERSIDE POWER PLAN AND DIAGRAM
 - E2.0 WATERFALL DEMOLITION PLANS
 - E2.1 WATERFALL POWER PLAN AND DIAGRAM

SCOPE OF WORK

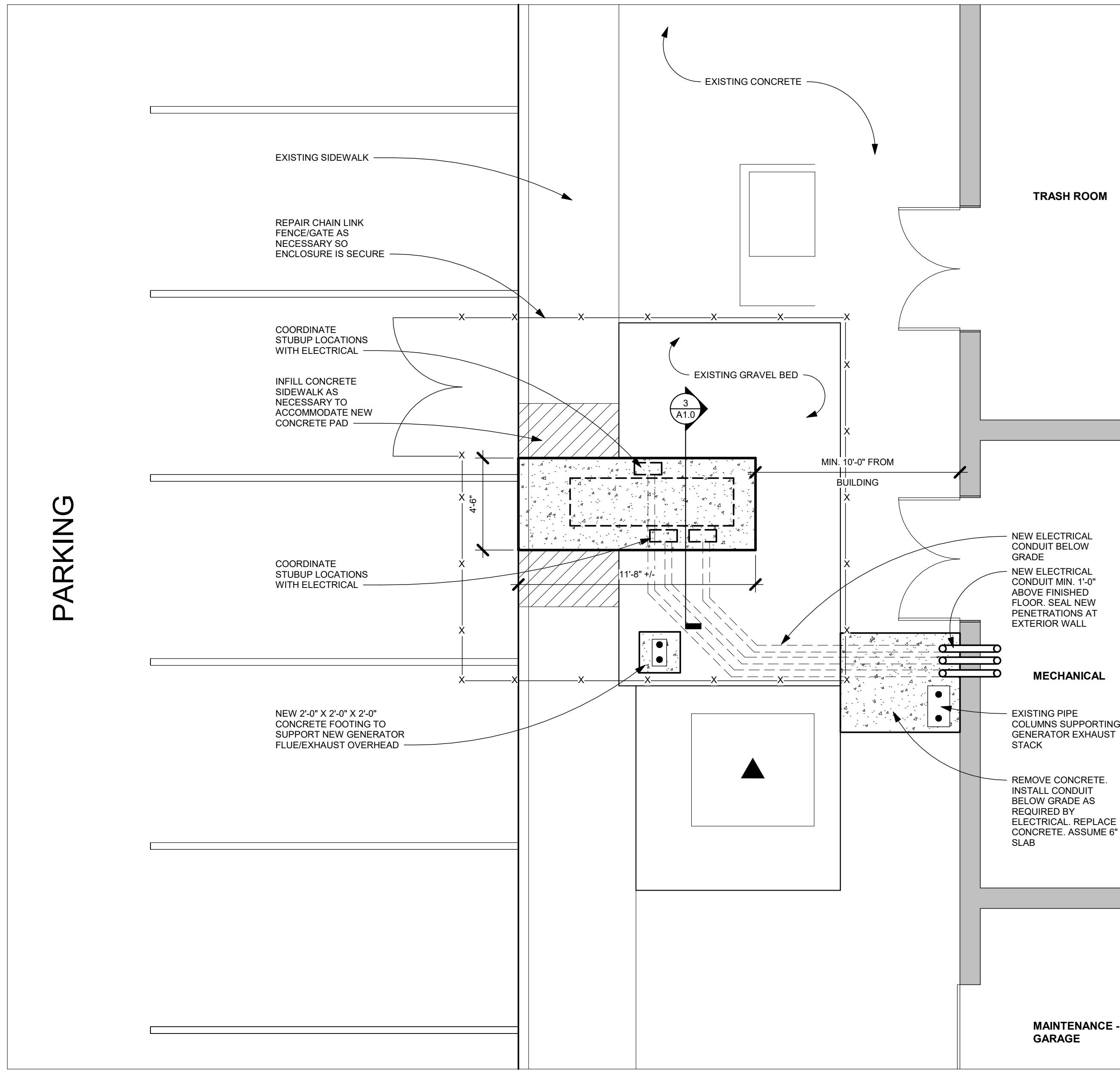
1. REPLACE THE EXISTING EMERGENCY GENERATOR AT WATERFALL HIGH-RISE AND RIVERSIDE HIGH-RISE.
2. TEST AND CONFIRM COMPLIANCE OF GENERATOR MODELS, FUEL LINES, AND GROUND TESTING TO COMPLY WITH LOCAL CODES AND PERMITS.
3. PREPARE SITE AREA WITH NEW CONCRETE PAD TO RECEIVE THE NEW GENERATOR AT RIVERSIDE HIGH-RISE.
4. PROPERLY DISPOSE ALL OLD EQUIPMENT OFF-SITE.



**RIVERSIDE HIGH-RISE
SITE DEMOLITION PLAN**

SCALE: 1/8" = 1'-0"

1
A1.0



RIVERSIDE HIGH-RISE SITE PLAN

SCALE: 1/4" = 1'-0"

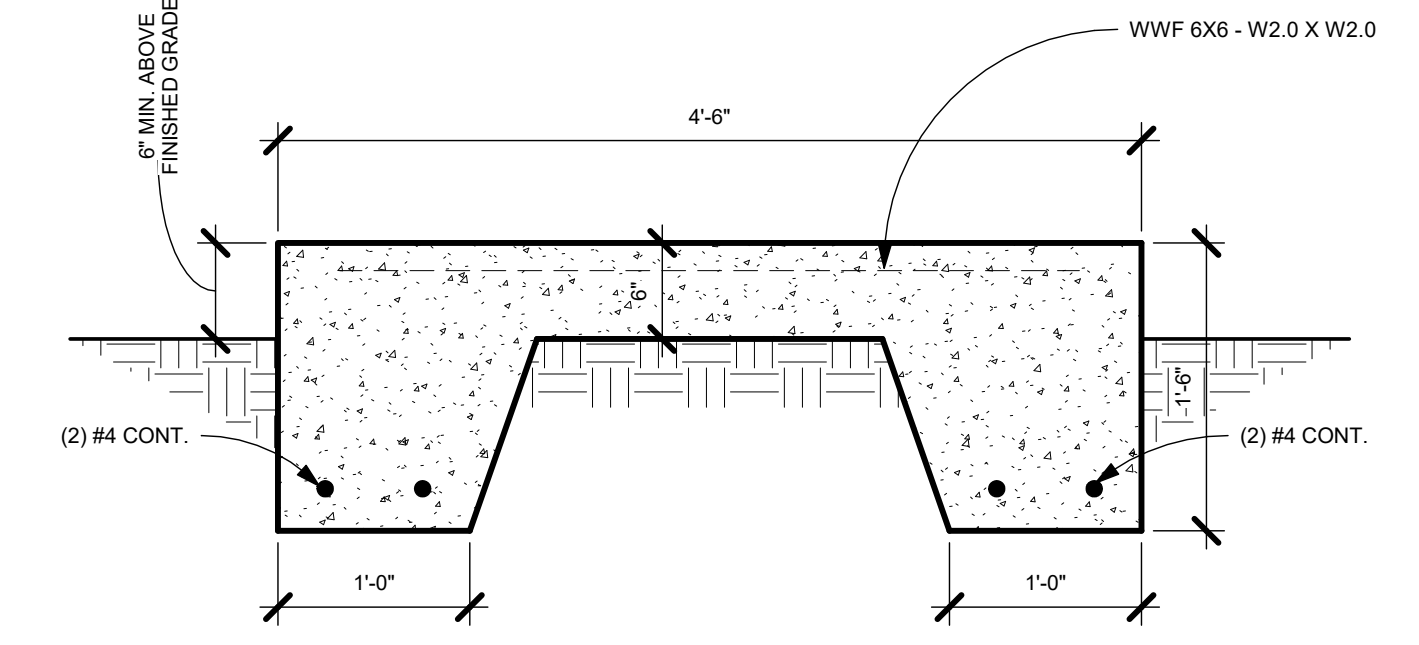
2
A1.0

GENERAL DEMOLITION NOTES

1. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS. PROVIDE DEMOLITION OF ALL EXISTING ITEMS WHICH ARE NECESSARY TO ACHIEVE THE INTENT OF THE DRAWINGS WHETHER SPECIFICALLY SHOWN OR NOT.
2. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS SHALL GOVERN.
3. REFERENCE ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION NOTES.

SITE DEMOLITION KEYNOTES

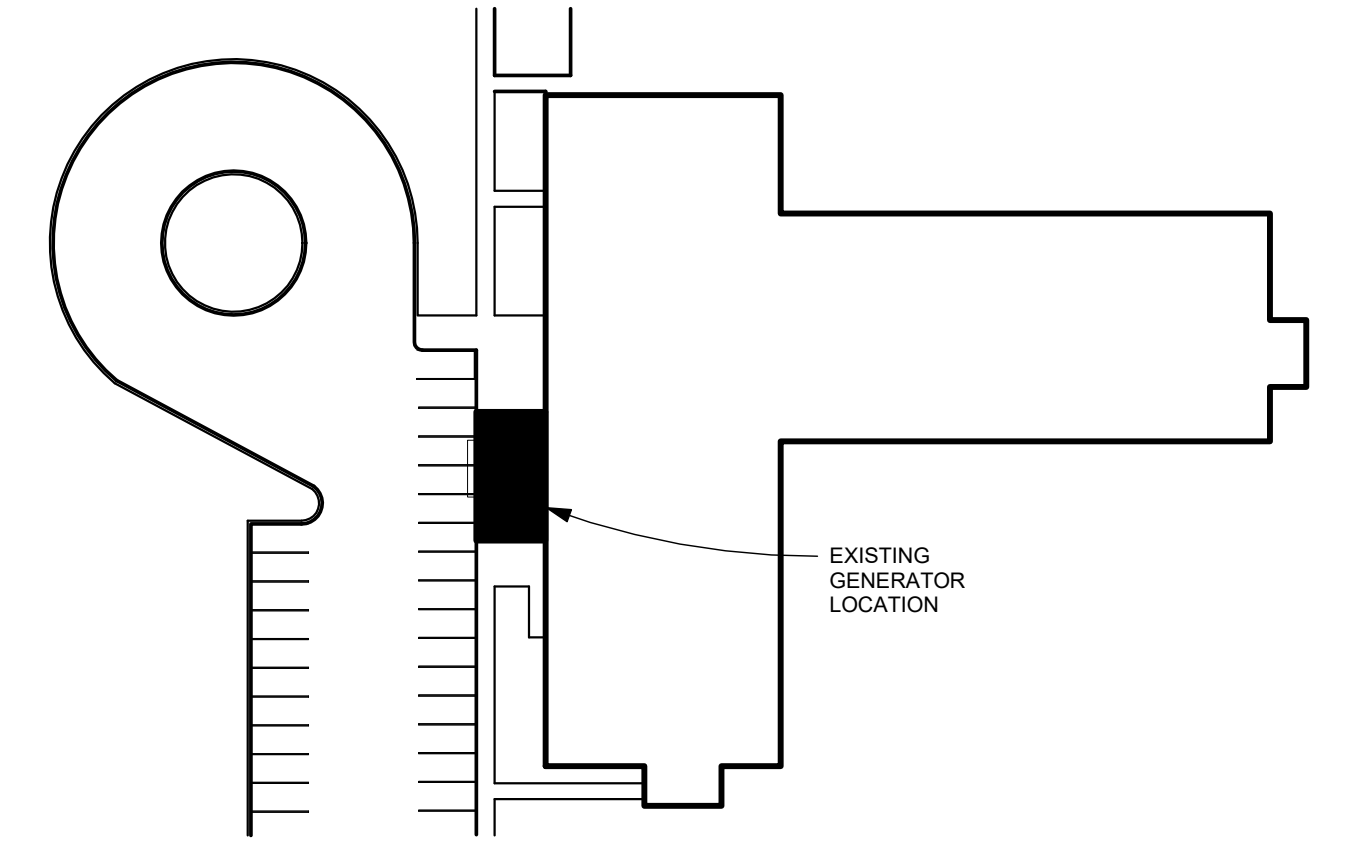
- 1 REMOVE EXISTING FUEL TANK. REMOVE ALL FUEL FROM TANK AND CONNECTIONS TO EXISTING GENERATOR. SALVAGE FUEL IN TANK AND RETURN TO OWNER. CAP ABANDONED LINES.
- 2 REMOVE EXISTING SIDEWALK, CURB, PAVING, AND ROCK AS NECESSARY FOR THE INSTALLATION OF NEW GENERATOR PAD.
- 3 TEMPORARILY REMOVE CHAIN LINK FENCING AND POSTS AS NECESSARY TO COMPLETE CONCRETE WORK AND INSTALLATION OF NEW GENERATOR.



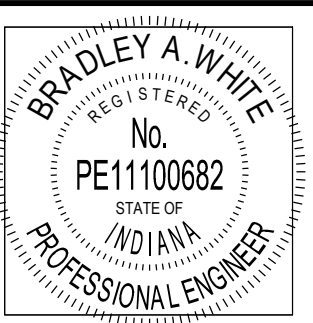
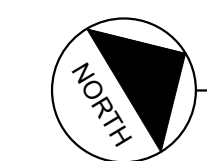
CONCRETE PAD SECTION

SCALE: 1" = 1'-0"

3
A1.0



**RIVERSIDE HIGH-RISE
KEY PLAN**



DATE:
2/13/2025

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ELECTRICAL LEGEND

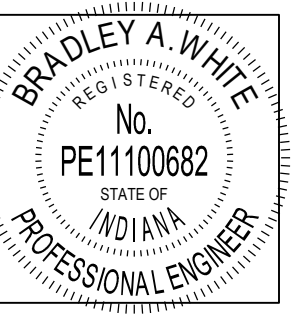
A.F.F.	ABOVE FINISHED FLOOR
C	CONDUIT
C.B.	CIRCUIT BREAKER
COMB.	COMBINATION
DISC.	DISCONNECT
E.C.	ELECTRICAL CONTRACTOR/TRADE
EXT'G	EXISTING ITEM
G.C.	GENERAL CONTRACTOR/TRADE
M.C.	MECHANICAL CONTRACTOR/TRADE
M.D.P.	MAIN DISTRIBUTION PANELBOARD
O.L.	OVERLOAD
RCPT.	RECEPTACLE
XFMR	TRANSFORMER
W.P.	WEATHERPROOF
#	EXISTING BRANCH CIRCUIT
WP	"WP" AT ANY RECEPTACLE SYMBOL INDICATES IT IS A WEATHERPROOF DEVICE WITH INTEGRAL GROUND FAULT CURRENT PROTECTION.
⊞	CONTROL/POWER CONNECTION
⊕	JUNCTION BOX
⊖	THERMOSTAT
	POWER DISTRIBUTION PANELBOARD
■	SURFACE MOUNTED PANELBOARD
■	RECESSED PANELBOARD
⊞	RELAY
⊞	REMOTE ANNUNCIATOR PANEL
3/10 - 3/4"	WIRE AND CONDUIT SIZE OTHER THAN MINIMUM SPECIFIED.
—	CONDUIT SIZE
—	WIRE SIZE
—	NUMBER OF WIRES
—	CONDUIT AND WIRE
—	CONDUIT AND WIRE RUN TO BE CONTINUED ON THE DRAWING OF ADJACENT AREAS.
—	HOME RUN TO PANELBOARD. A1,3 = PANELBOARD "A", CIRCUITS 1 AND 3, THREE CROSS LINES = 3 WIRES. UNLESS OTHERWISE NOTED, THE CONDUIT AND WIRE SIZES ARE THE MINIMUM AS REQUIRED BY THE SPECIFICATIONS. LONG CROSS LINE = NEUTRAL.

GENERAL ELECTRICAL NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH NATIONAL, STATE, AND LOCAL CODES IN FORCE AT THE TIME OF BIDDING, INCLUDING, BUT NOT LIMITED TO, THE INDIANA CONSTRUCTION RULES AND NATIONAL ELECTRICAL CODE.
- INSTALL A SEPARATE GROUNDING CONDUCTOR, INSULATED GREEN, IN ALL CONDUITS. WHERE WIRING COUNTS ARE INDICATED ON DRAWINGS, THESE WIRING COUNTS EXCLUDE THE GROUNDING CONDUCTOR, HOWEVER, GROUNDING CONDUCTOR IS REQUIRED. WHERE MC CABLE IS ALLOWED, PROVIDE WITH GREEN INSULATED GROUND CONDUCTOR. TYPE "MCAP" CABLE SHALL NOT BE USED.
- MAINTAIN ACCURATE RECORDS OF ALL CHANGES MADE DURING CONSTRUCTION. PROVIDE A NEATLY MARKED SET OF BLUEPRINTS TO THE ENGINEER/ARCHITECT AT COMPLETION OF THE PROJECT, INDICATING ALL FIELD CHANGES.
- ALL DEVICES, EQUIPMENT, FIXTURES, ETC., MUST BE GROUNDED BY USE OF A PROPERLY SIZED GROUNDING CONDUCTOR. MECHANICAL/ELECTRICAL BONDS OF THE METALLIC RACEWAY SYSTEM SHALL ALSO BE MAINTAINED.
- PROVIDE "SEAL-OFFS" WHEN PIPING PASSES THROUGH AREAS OF DIFFERENT AMBIENT TEMPERATURES AND/OR HAZARDOUS AREAS.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CUTTING AND PATCHING REQUIRED FOR THE PROPER INSTALLATION, SUPPORT, OR ANCHORAGE OF ELECTRICAL EQUIPMENT. THE E.C. SHALL LAYOUT CAREFULLY IN ADVANCE WHERE CUTTING, CHANNELING OR DRILLING IS NECESSARY FOR THE PROPER COMPLETION OF ELECTRICAL WORK. COORDINATE WITH OTHER TRADES AS REQUIRED.
- CONNECTION OF BUILDING GROUNDING SYSTEM TO BE DOCUMENTED WITH PHOTOGRAPHS AND ENGINEER/OWNER SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO BACKFILLING/POURING CONCRETE TO ALLOW VERIFICATION.
- EXISTING SYSTEMS ARE SHOWN BASED ON INFORMATION MADE AVAILABLE TO THE DESIGN TEAM. FIELD VERIFY ALL SYSTEMS, EQUIPMENT AND CONDITIONS. COORDINATE NEW WORK WITH EXISTING FIELD CONDITIONS AND ACTUAL EQUIPMENT PROVIDED.

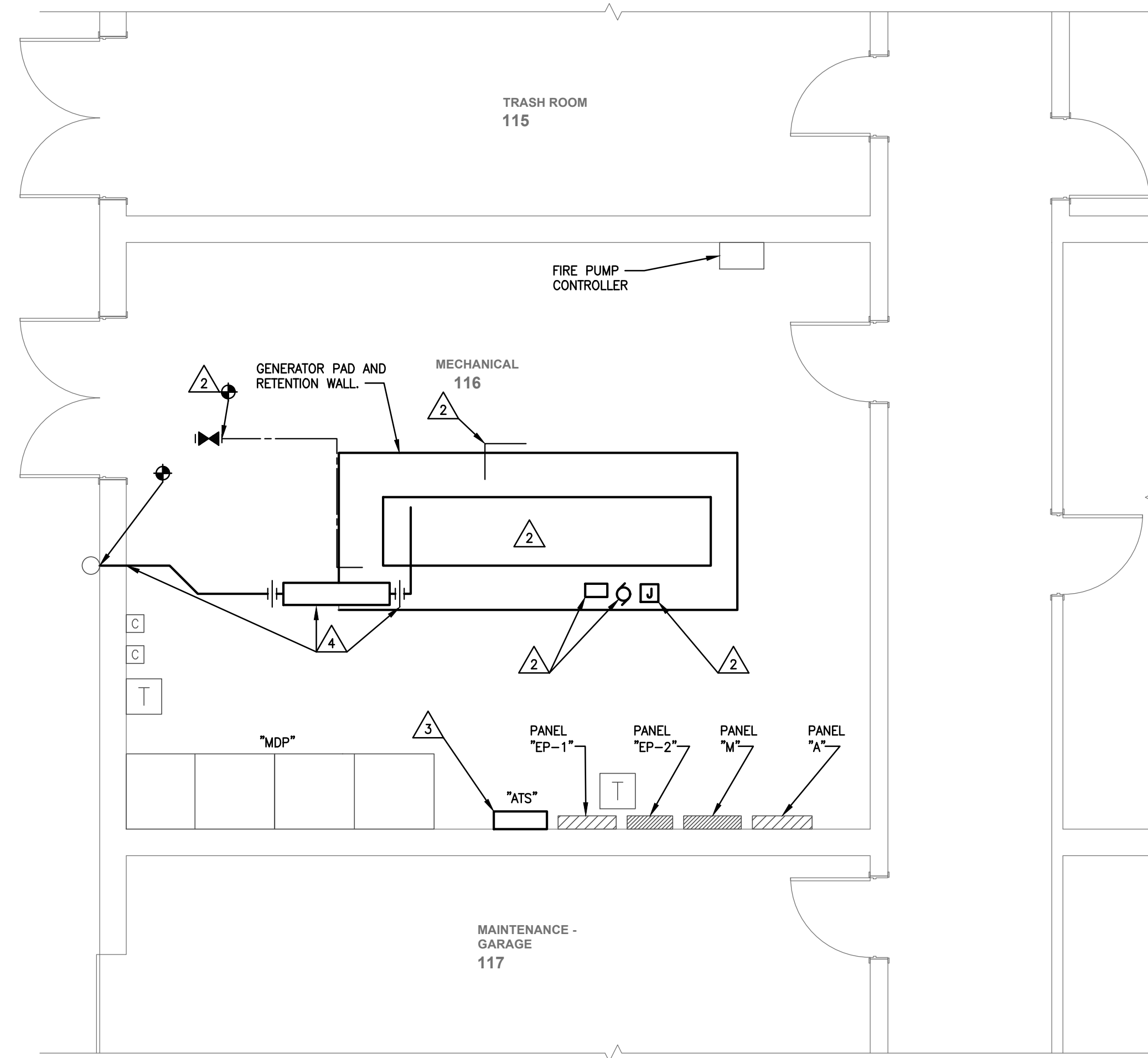
GENERAL ELECTRICAL DEMOLITION NOTES

- THE ELECTRICAL DEMOLITION DRAWINGS INDICATE MAJOR ELECTRICAL ITEMS TO BE REMOVED. THE DRAWINGS ARE INTENDED TO INDICATE THE GENERAL SCOPE OF ELECTRICAL DEMOLITION WORK REQUIRED AND DO NOT INDICATE EVERY LIGHT FIXTURE, ELECTRICAL OUTLET, CONDUIT, WIRE OR OTHER ELECTRICAL DEVICE THAT MUST BE REMOVED, RELOCATED OR OTHERWISE MODIFIED TO FACILITATE NEW CONSTRUCTION. THE ELECTRICAL CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING A BID AND DETERMINE THE EXACT SCOPE OF DEMOLITION WORK.
- WHERE WALLS TO REMAIN ARE DAMAGED BY THE REMOVAL OF ANY ELECTRICAL EQUIPMENT, THIS CONTRACTOR SHALL PATCH AS REQUIRED TO MATCH ADJACENT SURFACES.
- THE OWNER RETAINS FIRST SALVAGE RIGHTS TO ALL EQUIPMENT. ITEMS THAT THE OWNER WISHES TO RETAIN SHALL BE DELIVERED TO THE OWNERS STORAGE AREA. ALL OTHER MATERIALS SHALL BE REMOVED FROM THE SITE IMMEDIATELY.
- COORDINATE SCHEDULE OF DEMOLITION WORK WITH THE OWNER, ARCHITECT AND OTHER TRADES. COORDINATE SHUTDOWN OF MAIN SERVICES WITH OWNER (I.E. POWER, TELEPHONE, ETC.) AT LEAST SEVEN (7) DAYS IN ADVANCE OF SERVICE OUTAGE. SERVICE OUTAGES SHALL NOT EXCEED FOUR (4) HOURS IN LENGTH.
- PIPING SHOWN ON DRAWINGS IS INTENDED TO INDICATED GENERAL PIPING EXTENT AND LAYOUT OF MAJOR COMPONENTS ONLY. FIELD VERIFY ACTUAL CONDITIONS, LOCATIONS, ARRANGEMENT, ETC.
- ITEMS SHOWN ON THE DEMOLITION DRAWINGS IN BOLD LINE WEIGHT ARE TO BE EITHER REMOVED OR RELOCATED. ITEMS SHOWN LIGHT ARE TO REMAIN UNCHANGED.
- IF EXISTING CIRCUITS TO REMAIN ARE DISRUPTED DURING DEMOLITION OR CONSTRUCTION REPAIR AND REROUTE AS REQUIRED.



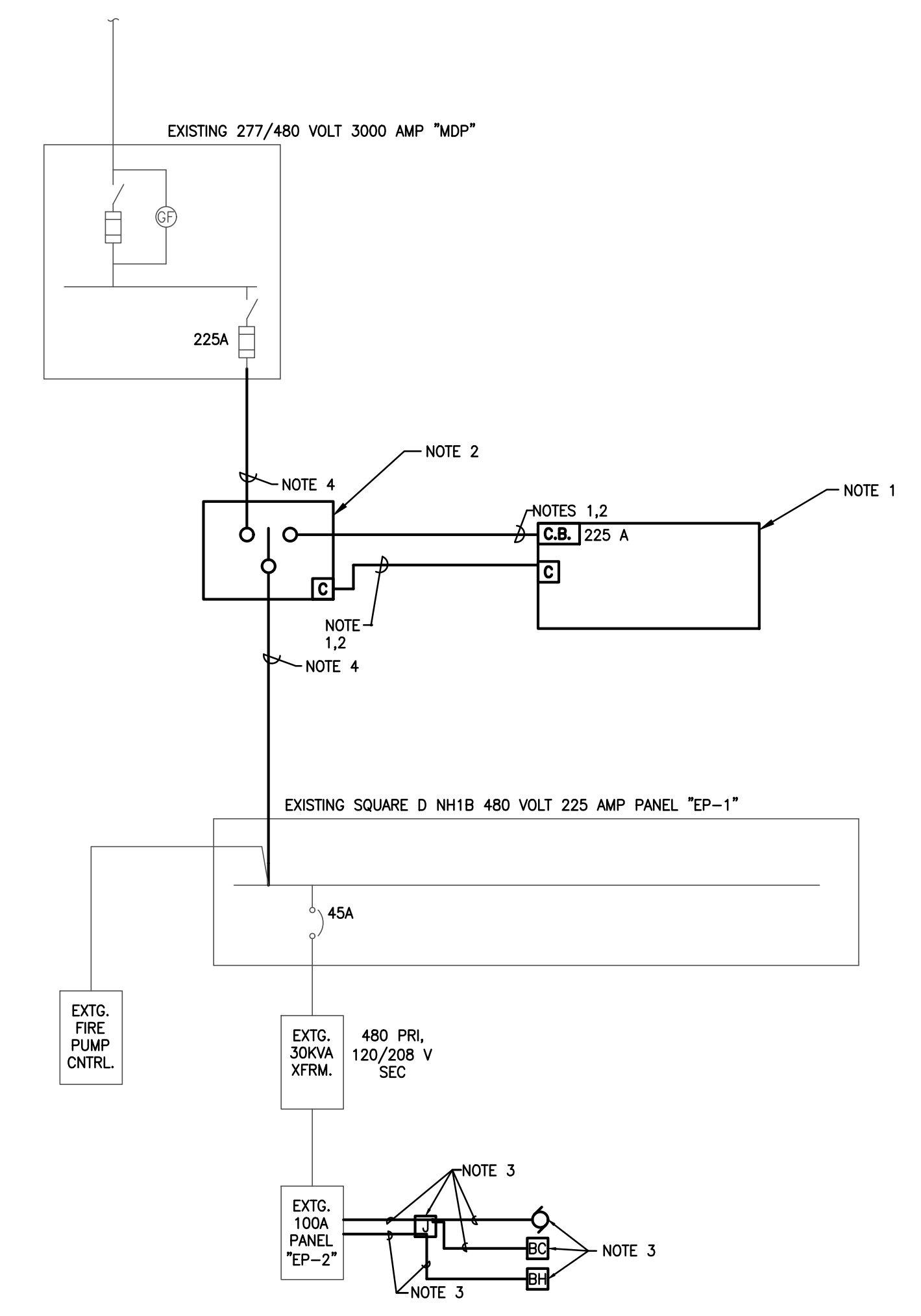
ELECTRICAL DEMOLITION NOTES

- 1. NOT USED.
- 2. DISCONNECT AND REMOVE GENERATOR, WIRING AND CONDUIT TO REMAIN UNLESS OTHERWISE INDICATED. REMOVE ASSOCIATED COOLING WATER PIPING TO SHUT OF VALVE, AND DISCHARGE PIPING TO DRAIN. REMOVE ASSOCIATED HEAT EXCHANGER AND EXPANSION TANK. REMOVE ALL ASSOCIATED WIRING AND CONDUIT. REMOVE DAY TANK, PUMP, AND RETENTION WALL. REMOVE FUEL PIPING AND OUTDOOR TANK. WHERE CONDUIT AND PIPING, FLOOR MOUNTING HARDWARE, AND ETC CANNOT BE REMOVED, REMOVE TO 1/2" BELOW FINISHED SURFACE, AND FILL WITH GROUT TO FINISH LEVEL.
- 3. DISCONNECT AND REMOVE AUTOMATIC TRANSFER SWITCH. REMOVE ASSOCIATED WIRING AND CONDUIT FROM GENERATOR FEED. REUSE OTHER WIRING AND CONDUIT WHERE PRACTICAL. WHERE CONDUIT FROM GENERATOR CANNOT BE REMOVED, REMOVE TO 1/2" BELOW FINISHED FLOOR AND FILL WITH GROUT TO FINISH LEVEL.
- 4. DISCONNECT AND REMOVE EXHAUST PIPING AND MUFFLER TO BUILDING EXTERIOR. FILL OPENING WITH GROUT.
- 5. SEE SITE PLANS FOR FUEL TANK REMOVAL INFORMATION.



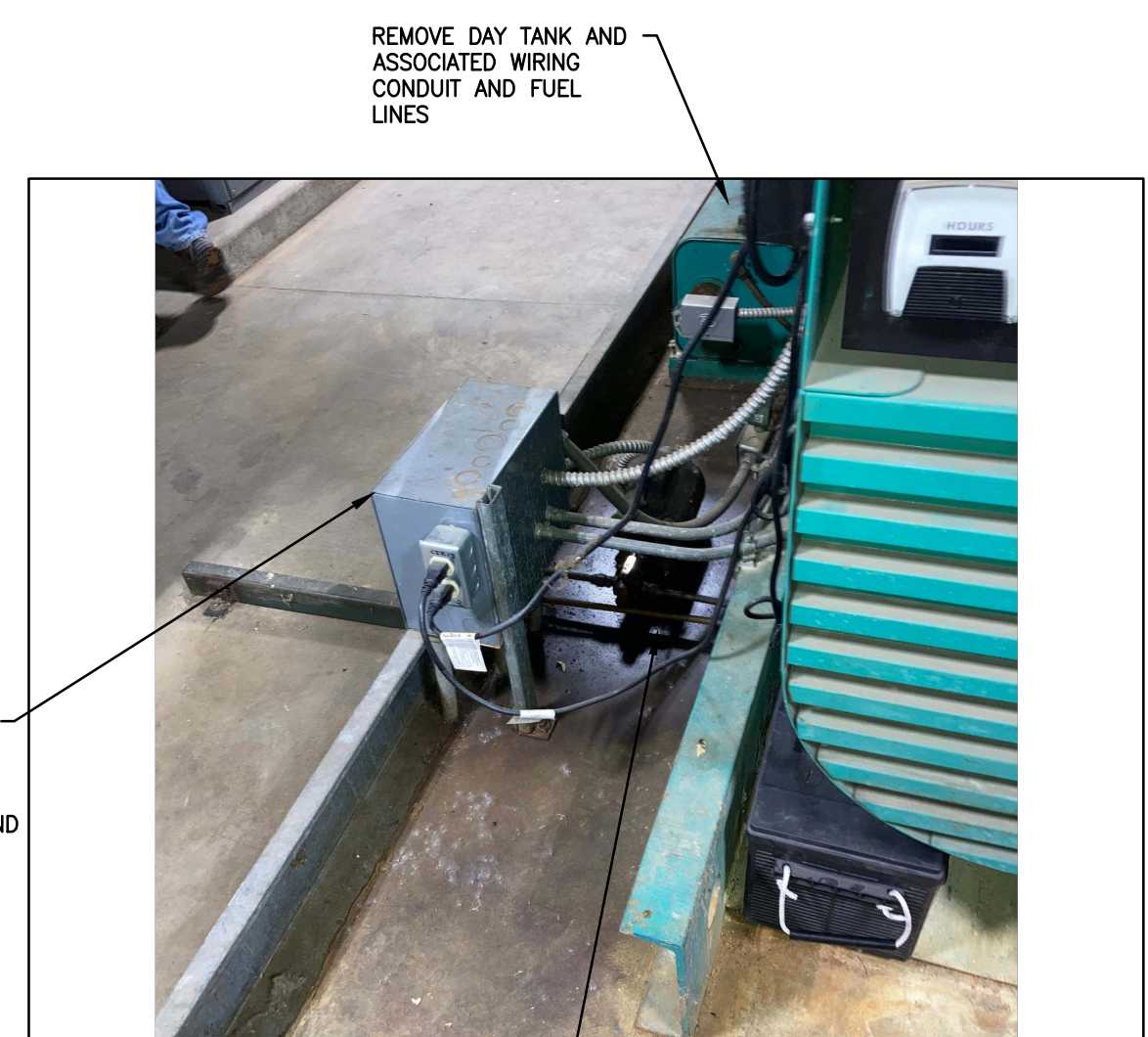
RIVERSIDE
 ELECTRICAL ROOM DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"

NOTE:
 ITEMS SHOWN LIGHT ARE EXISTING TO REMAIN.



- NOTES:
1. DISCONNECT AND REMOVE GENERATOR, WIRING, CONDUIT, FUEL LINES, WATER LINES AND ETC.
 2. DISCONNECT AND REMOVE AUTOMATIC TRANSFER SWITCH. REMOVE ASSOCIATED POWER, CONTROL, AND ACCESSORY WIRING AND CONDUIT TO SOURCE.
 3. DISCONNECT AND REMOVE FUEL PUMP, BATTERY CHARGER, AND BLOCK HEATER. REMOVE ALL ASSOCIATED, CONDUIT AND PIPING.
 4. DISCONNECT WIRING AND CONDUIT FOR RECONNECTION TO NEW AUTOMATIC TRANSFER SWITCH.

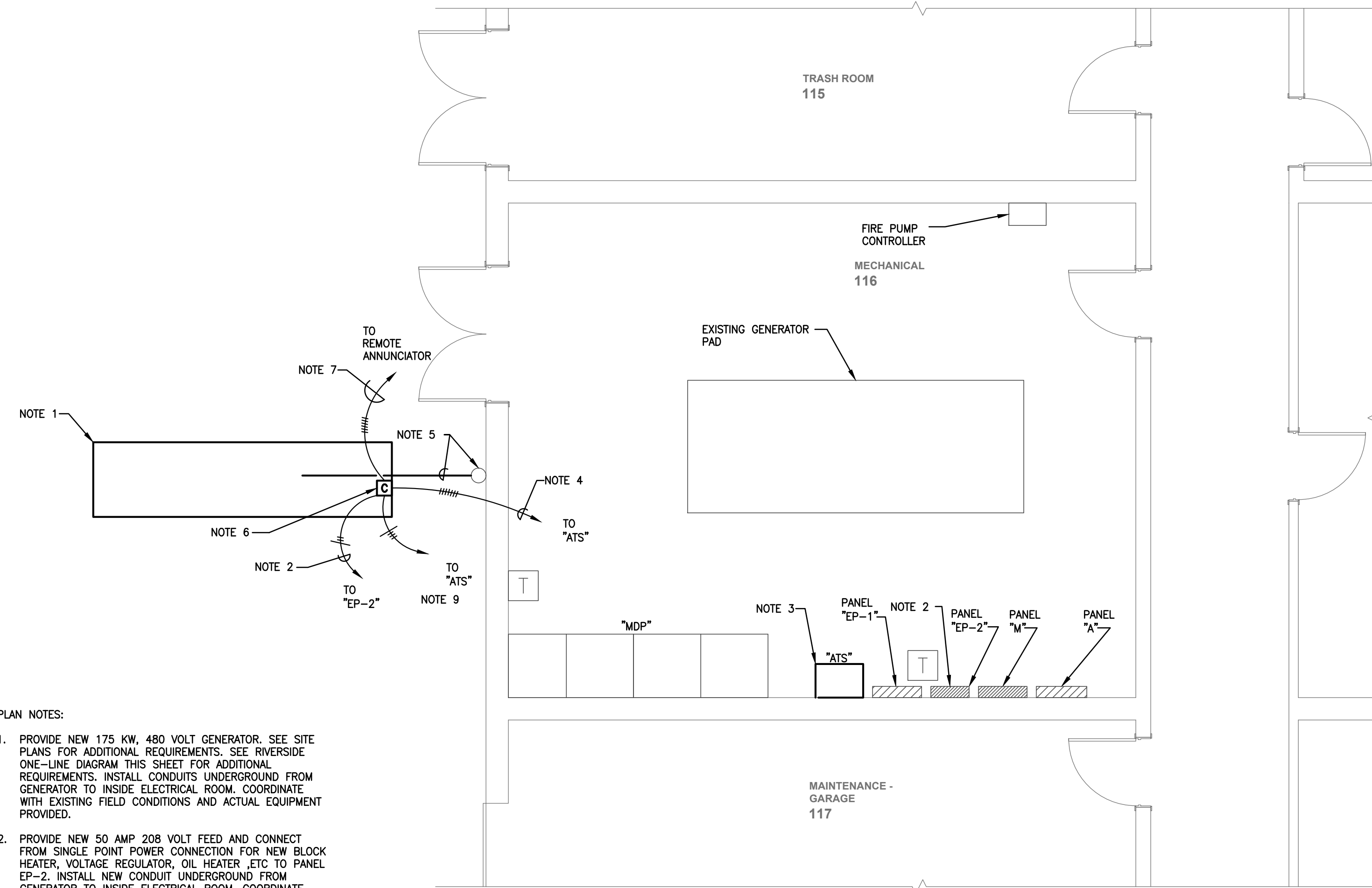
RIVERSIDE
 PARTIAL ONE-LINE DEMOLITION DIAGRAM
 NOT TO SCALE



REMOVE J-BOX AND ASSOCIATED WIRING AND CONDUIT FOR CONNECTION OF BATTERY CHARGER AND BLOCK HEATER.

REMOVE AUXILIARY FUEL PUMP AND ASSOCIATED WIRING, CONDUIT AND FUEL LINES TO SOURCE.

RIVERSIDE
 AUX. TANK, PUMP AND J-BOX DEMOLITION PLAN
 NOT TO SCALE



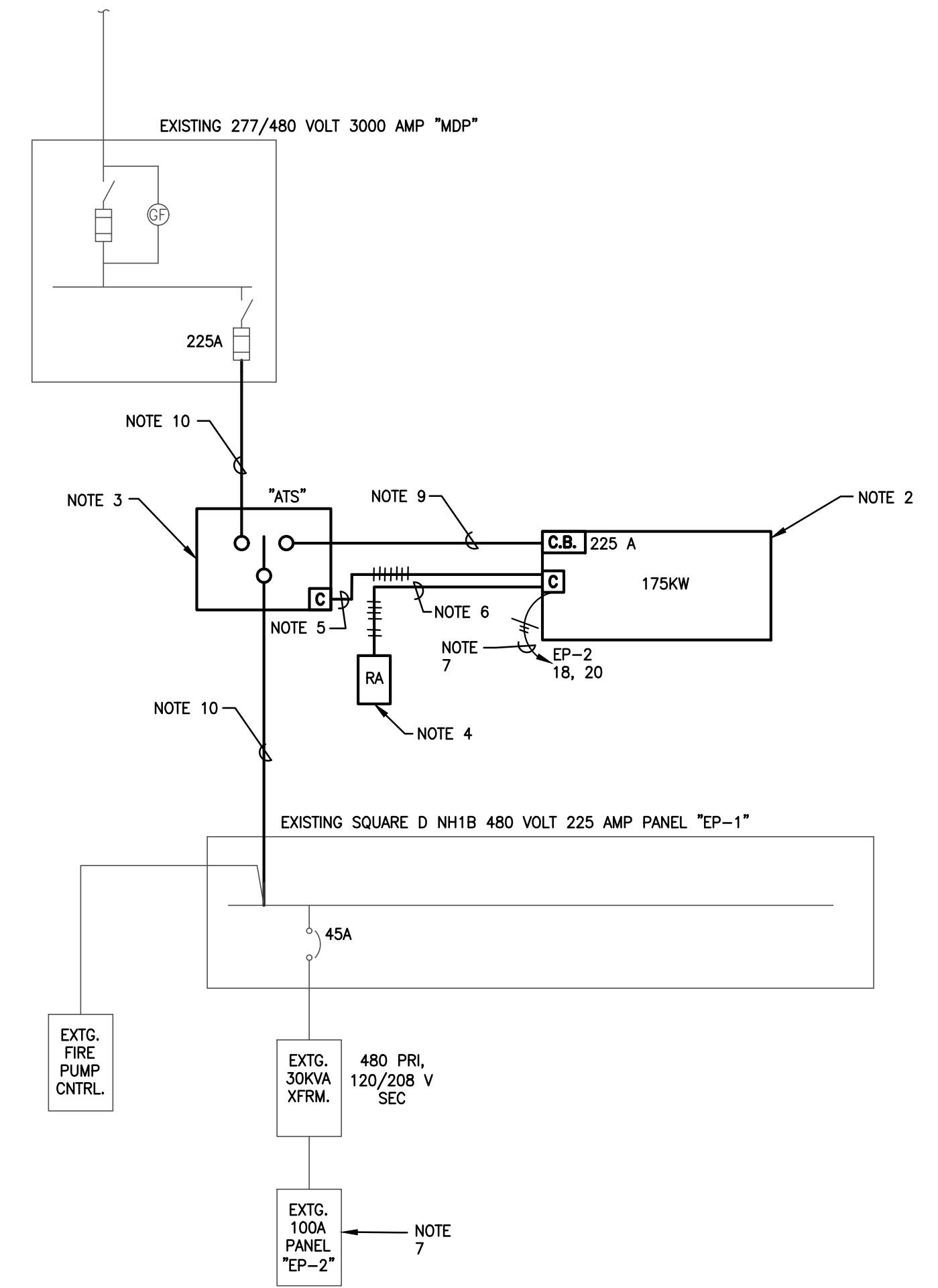
PLAN NOTES:

1. PROVIDE NEW 175 KW, 480 VOLT GENERATOR. SEE SITE PLANS FOR ADDITIONAL REQUIREMENTS. SEE RIVERSIDE ONE-LINE DIAGRAM THIS SHEET FOR ADDITIONAL REQUIREMENTS. INSTALL CONDUITS UNDERGROUND FROM GENERATOR TO INSIDE ELECTRICAL ROOM. COORDINATE WITH EXISTING FIELD CONDITIONS AND ACTUAL EQUIPMENT PROVIDED.
2. PROVIDE NEW 50 AMP 208 VOLT FEED AND CONNECT FROM SINGLE POINT POWER CONNECTION FOR NEW BLOCK HEATER, VOLTAGE REGULATOR, OIL HEATER, ETC TO PANEL EP-2. INSTALL NEW CONDUIT UNDERGROUND FROM GENERATOR TO INSIDE ELECTRICAL ROOM. COORDINATE WITH EXISTING FIELD CONDITIONS AND ACTUAL EQUIPMENT PROVIDED. SEE RIVERSIDE PARTIAL ONE-LINE DIAGRAM THIS SHEET FOR ADDITIONAL INFORMATION.
3. PROVIDE NEW 300 AMP 480 VOLT AUTOMATIC TRANSFER SWITCH. RECONNECT EXISTING 480 VOLT NORMAL POWER CONDUCTORS. PROVIDE ADDITIONAL MATERIALS AS REQUIRED.
4. PROVIDE NEW (7) #14 THHN IN CONDUCTORS FROM GENERATOR TO AUTOMATIC TRANSFER SWITCH FOR CONTROL. RUN NEW CONDUIT UNDERGROUND INTO ELECTRICAL ROOM. COORDINATE WITH ACTUAL EQUIPMENT PROVIDED.
5. CONNECT NEW MUFFLER AND EXHAUST PIPING TO EXISTING 5" EXHAUST PIPING STACK. COORDINATE EXISTING FIELD CONDITIONS WITH NEW EQUIPMENT AND PROVIDE ALL REQUIRED MATERIALS. FINAL CONNECTION TO GENERATOR SHALL FLEXIBLE.
6. PROVIDE (2) #14 TO BATTERY FOR REMOTE ANNUNCIATOR POWER.
7. (2) #14 AND (1) BELDEN #9729 COMMUNICATION CABLE IN 3/4" C TO REMOTE ANNUNCIATOR.
8. INSTALL REMOTE GENERATOR ANNUNCIATOR IN STAFF OFFICE AREA, NO MORE THAN 250' FROM GENERATOR. FIELD VERIFY EXACT LOCATION WITH OWNER/ENGINEER.
9. (2) #4/0, #4G IN 2 1/2" C



RIVERSIDE ELECTRICAL ROOM POWER PLAN

SCALE: 1/4" = 1'-0"

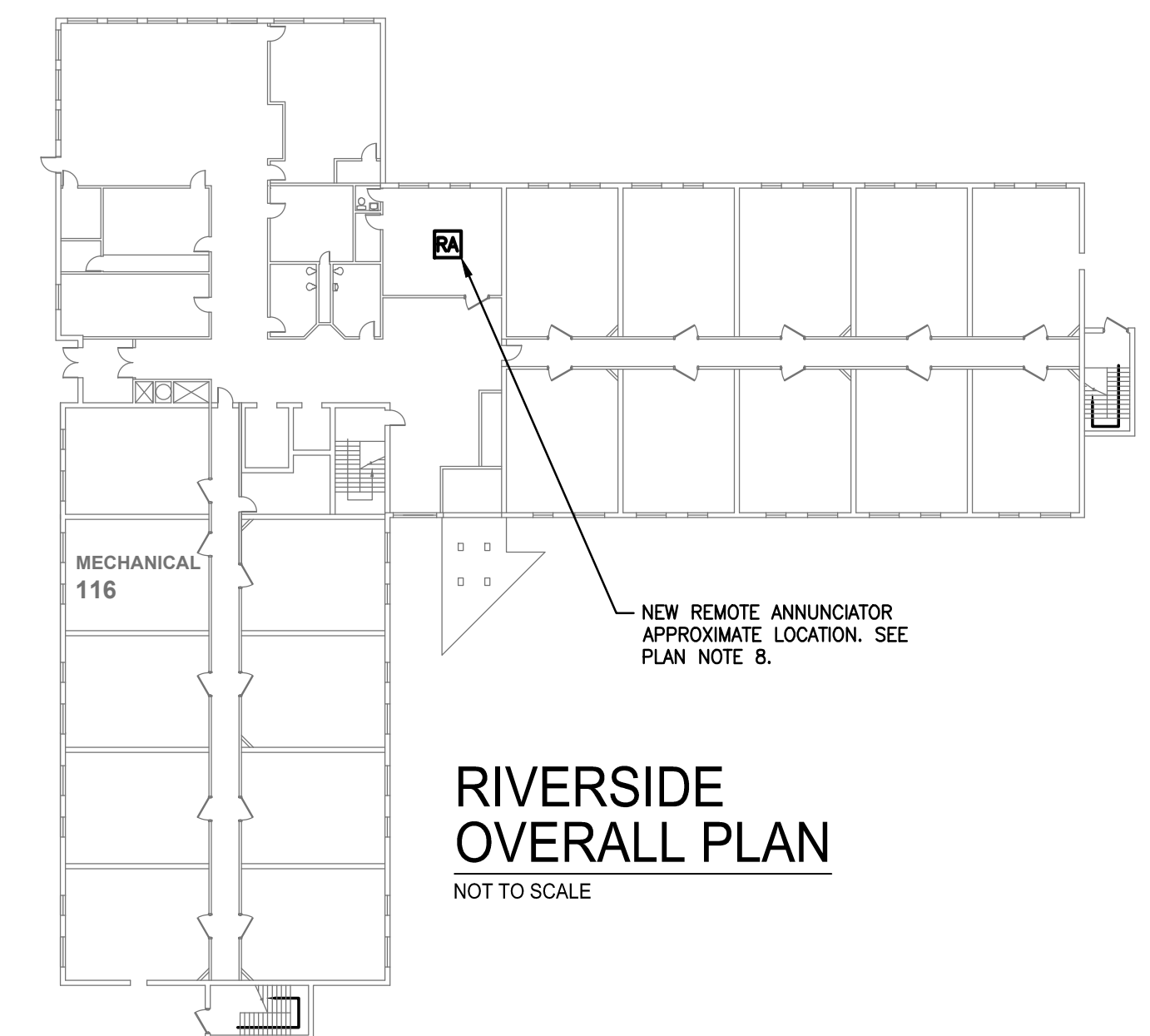


NOTES:

1. SEE RIVERSIDE ELECTRICAL ROOM PLAN THIS SHEET FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE NEW 175 KW 480 VOLT GENERATOR. SEE SITE DRAWINGS FOR LOCATION AND ADDITIONAL REQUIREMENTS.
3. PROVIDE NEW 300 AMP AUTOMATIC TRANSFER SWITCH. COORDINATE EXACT LOCATION WITH EXISTING FIELD CONDITIONS AND ACTUAL EQUIPMENT PROVIDED.
4. PROVIDE NEW REMOTE ANNUNCIATOR. SEE PLAN NOTE 8.
5. (7) #14 AWG IN 1" C. CONNECT TO GENERATOR AND AUTOMATIC TRANSFER SWITCH CONTROLS PER MANUFACTURER'S REQUIREMENTS.
6. (2) #14 AWG, FOR DC POWER, AND (1) BELDEN 9729 CABLE, FOR COMMUNICATION, IN 1" C TO NEW REMOTE ANNUNCIATOR.
7. PROVIDE (3) #6, #10 G IN 1". CONNECT TO SINGLE POINT POWER CONNECTION FOR BATTERY CHARGER, BLOCK HEATER, OIL HEATER, AUX. FUEL PUMP ETC ON GENERATOR. CONNECT TO CIRCUITS INDICATED. PROVIDE NEW 50 AMP 2-POLE C.B. IN EXISTING PANEL EP-2. ARRANGE EXISTING CIRCUITS AND BREAKERS AS REQUIRED. COORDINATE NEW WORK WITH ACTUAL EQUIPMENT PROVIDED AND EXISTING FIELD CONDITIONS AS REQUIRED.
8. PROVIDE (2) #12, #12G IN 1/2" SEALTITE CONDUIT FROM GENERATOR CONTROL CABINET TO EXISTING LARGE J-BOX, ADJACENT TO GENERATOR, AND RECONNECT EXISTING AUX. FUEL PUMP.
9. (4) #4/0, #4G IN 2 1/2" C.
10. CONNECT EXISTING 480 VOLT WIRING AND CONDUIT TO NEW AUTOMATIC TRANSFER SWITCH. PROVIDE ADDITIONAL MATERIALS AND REWORK AS REQUIRED.

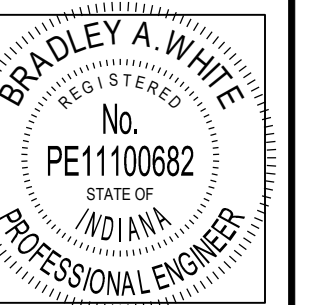
RIVERSIDE PARTIAL ONE-LINE DIAGRAM

NOT TO SCALE



RIVERSIDE OVERALL PLAN

NOT TO SCALE

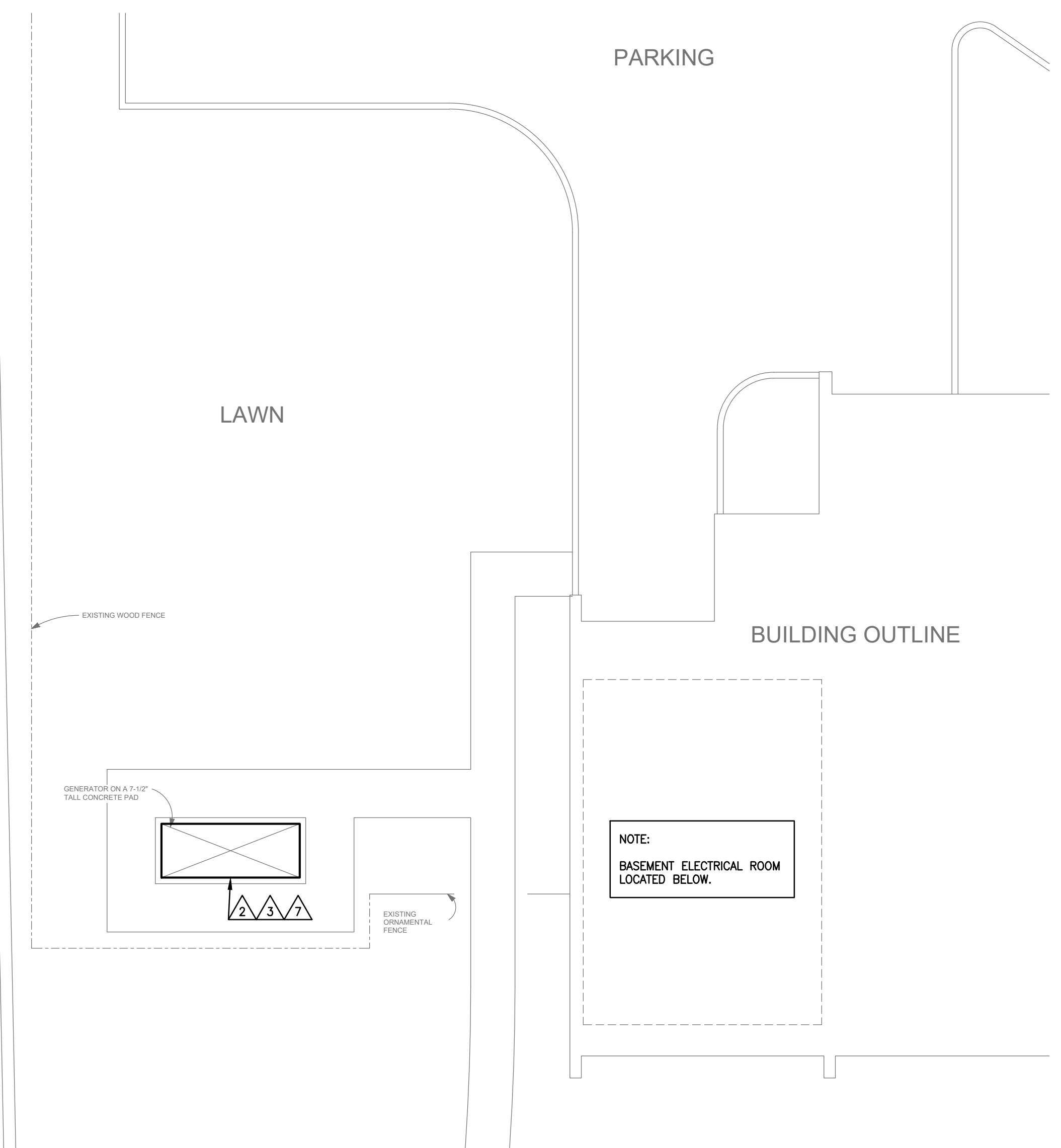


DATE:
02/13/2025

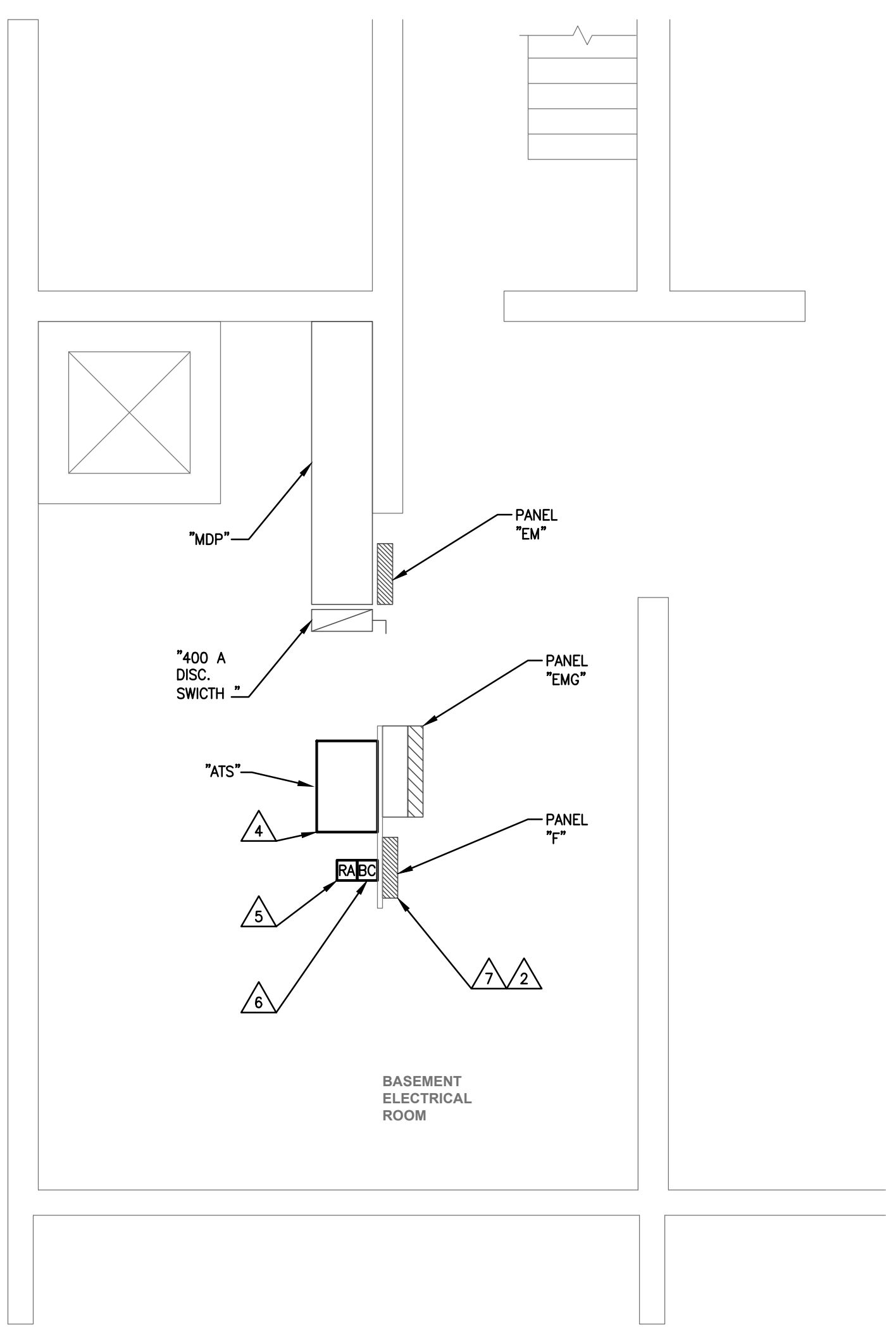
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SHEET NO.

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WATERFALL ELECTRICAL SITE PLAN
 SCALE: 1/8" = 1'-0"

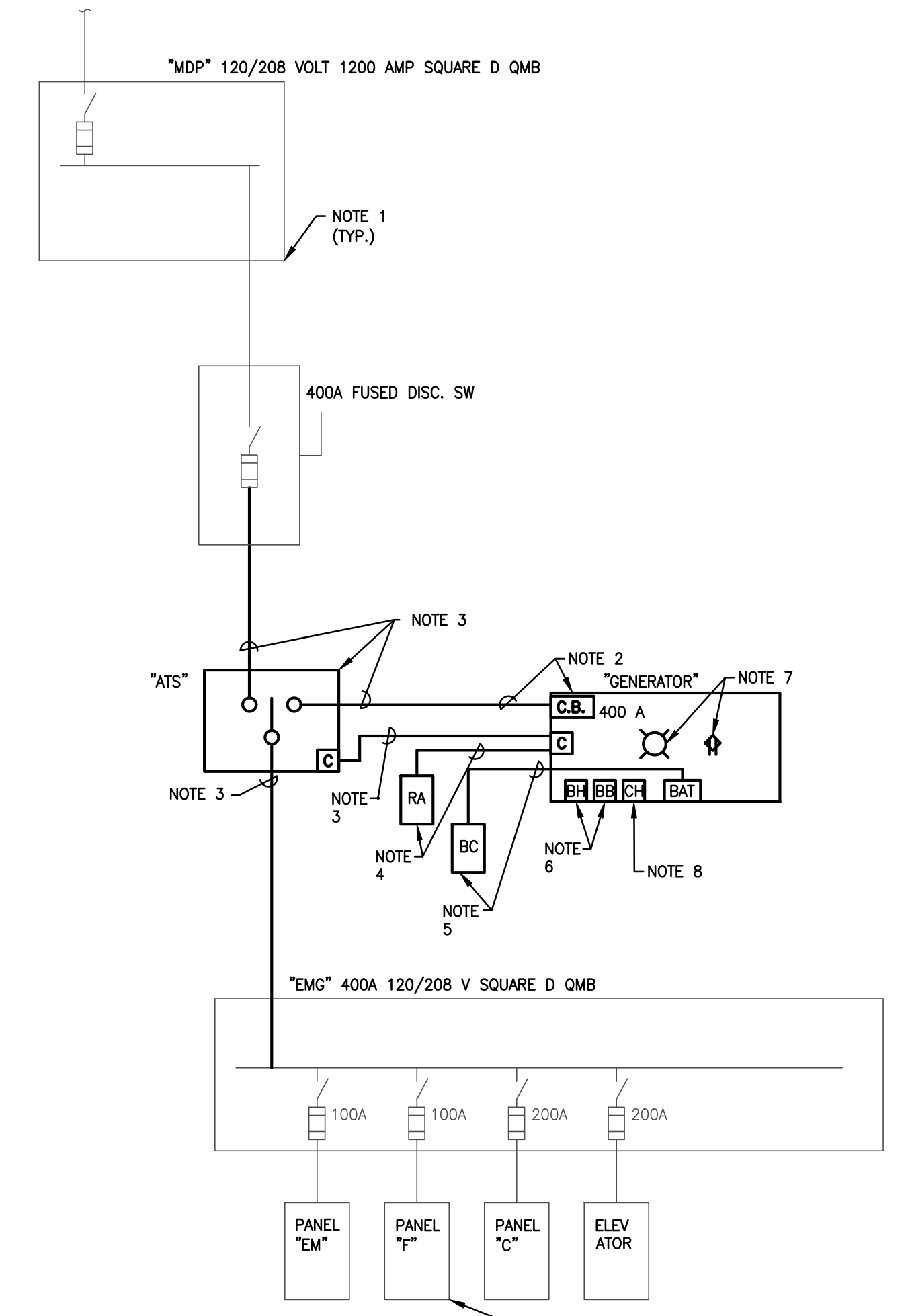


WATERFALL ELECTRICAL ROOM DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"

ELECTRICAL DEMOLITION NOTES

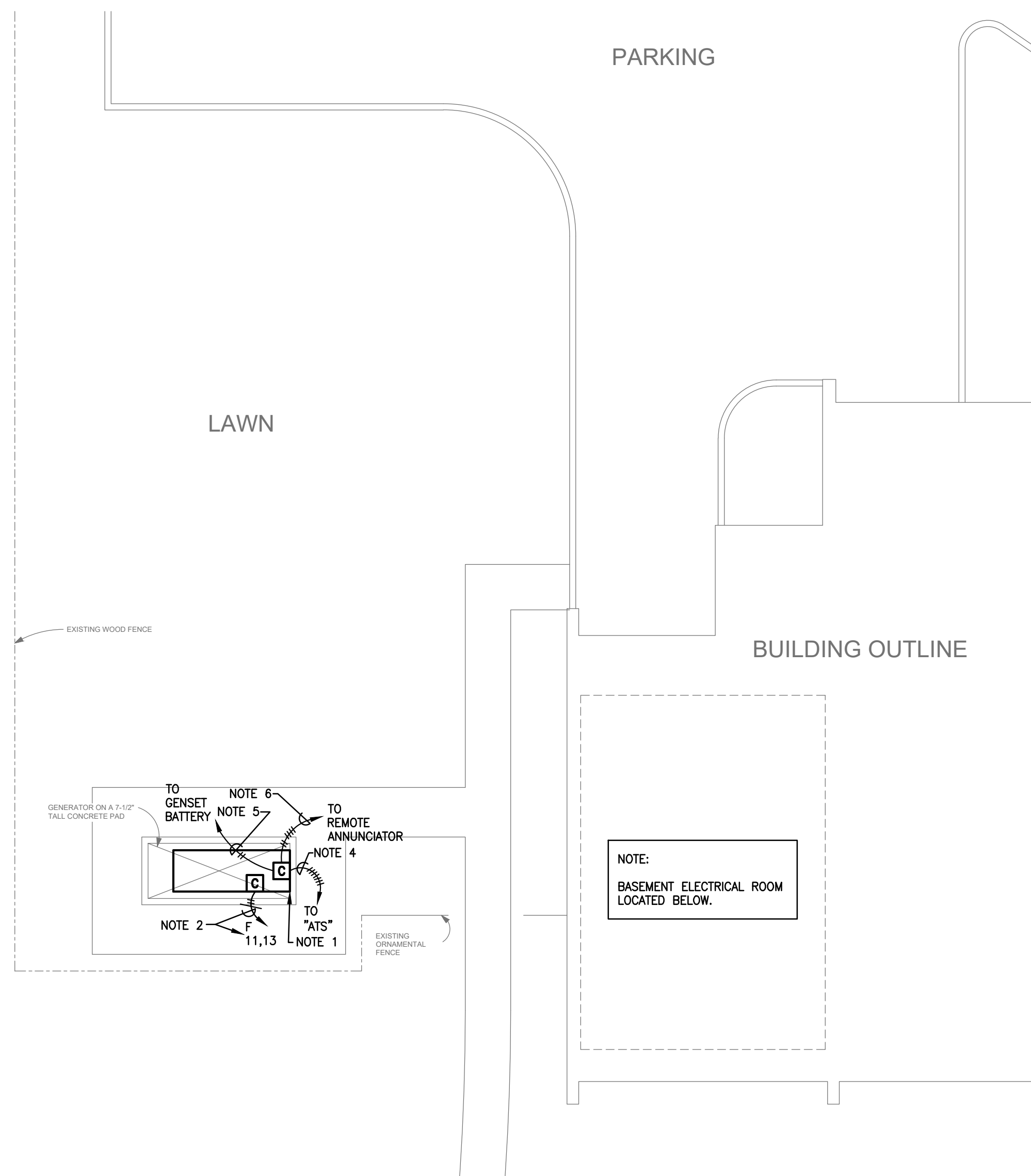
1. NOT USED.
2. SEE ONE-LINE DEMOLITION DIAGRAM THIS SHEET FOR ADDITIONAL REQUIREMENTS.
3. DISCONNECT AND REMOVE GENERATOR INCLUDING ENCLOSURE, MUFFLER AND SUB BASE FUEL TANK. WIRING AND CONDUIT TO REMAIN FOR RECONNECTION TO NEW GENERATOR. SALVAGE FUEL TO OWNER.
4. DISCONNECT AND REMOVE AUTOMATIC TRANSFER SWITCH. POWER WIRING AND CONDUIT TO REMAIN FOR CONNECTION TO NEW AUTOMATIC TRANSFER SWITCH. CONTROL WIRING TO GENERATOR TO BE REMOVED. CONDUIT TO REMAIN.
5. DISCONNECT AND REMOVE REMOTE ANNUNCIATOR AND ASSOCIATED WIRING. CONDUIT TO REMAIN.
6. DISCONNECT AND REMOVE BATTERY CHARGER. REMOVE ASSOCIATED WIRING AND CONDUIT.
7. DISCONNECT AND REMOVE BRANCH CIRCUIT WIRING FOR GENERATOR LIGHT, RECEPTACLE, BLOCK HEATER, BATTERY BLANKET, AND CONTROL CABINET HEATER ORIGINATE FROM PANEL "F". CONDUIT TO REMAIN.

NOTE:
 ITEMS SHOWN LIGHT ARE EXISTING TO REMAIN.



- NOTES:
1. ITEMS SHOWN WITH A LIGHT ARE TO EXISTING TO REMAIN.
 2. DISCONNECT AND REMOVE GENERATOR INCLUDING ENCLOSURE, MUFFLER AND SUB BASE FUEL TANK. WIRING AND CONDUIT FOR RECONNECTION TO NEW GENERATOR. SALVAGE FUEL TO OWNER.
 3. DISCONNECT AND REMOVE AUTOMATIC TRANSFER SWITCH. POWER WIRING AND CONDUIT TO REMAIN FOR CONNECTION TO NEW AUTOMATIC TRANSFER SWITCH. CONTROL WIRING TO GENERATOR TO BE REMOVED. CONDUIT TO REMAIN. REWORK AS REQUIRED.
 4. DISCONNECT AND REMOVE REMOTE ANNUNCIATOR AND ASSOCIATED WIRING AND CONDUIT.
 5. DISCONNECT AND REMOVE BATTERY CHARGER. REMOVE ASSOCIATED WIRING. CONDUIT UNLESS REUSED.
 6. DISCONNECT BLOCK HEATER AND BATTERY BLANKET HEATER. REMOVE ASSOCIATED WIRING. CONDUIT TO REMAIN.
 7. DISCONNECT AND REMOVE GENERATOR ENCLOSURE RECEPTACLE AND LIGHT FIXTURE BRANCH CIRCUIT WIRING. CONDUIT TO REMAIN.
 8. DISCONNECT AND REMOVE GENERATOR ENCLOSURE CONTROL CABINET HEATER BRANCH CIRCUIT WIRING. CONDUIT TO REMAIN.
 9. BRANCH CIRCUITS FOR GENERATOR LIGHT, RECEPTACLE, BLOCK HEATER, BATTERY BLANKET, AND CONTROL CABINET HEATER ORIGINATE FROM PANEL "F"

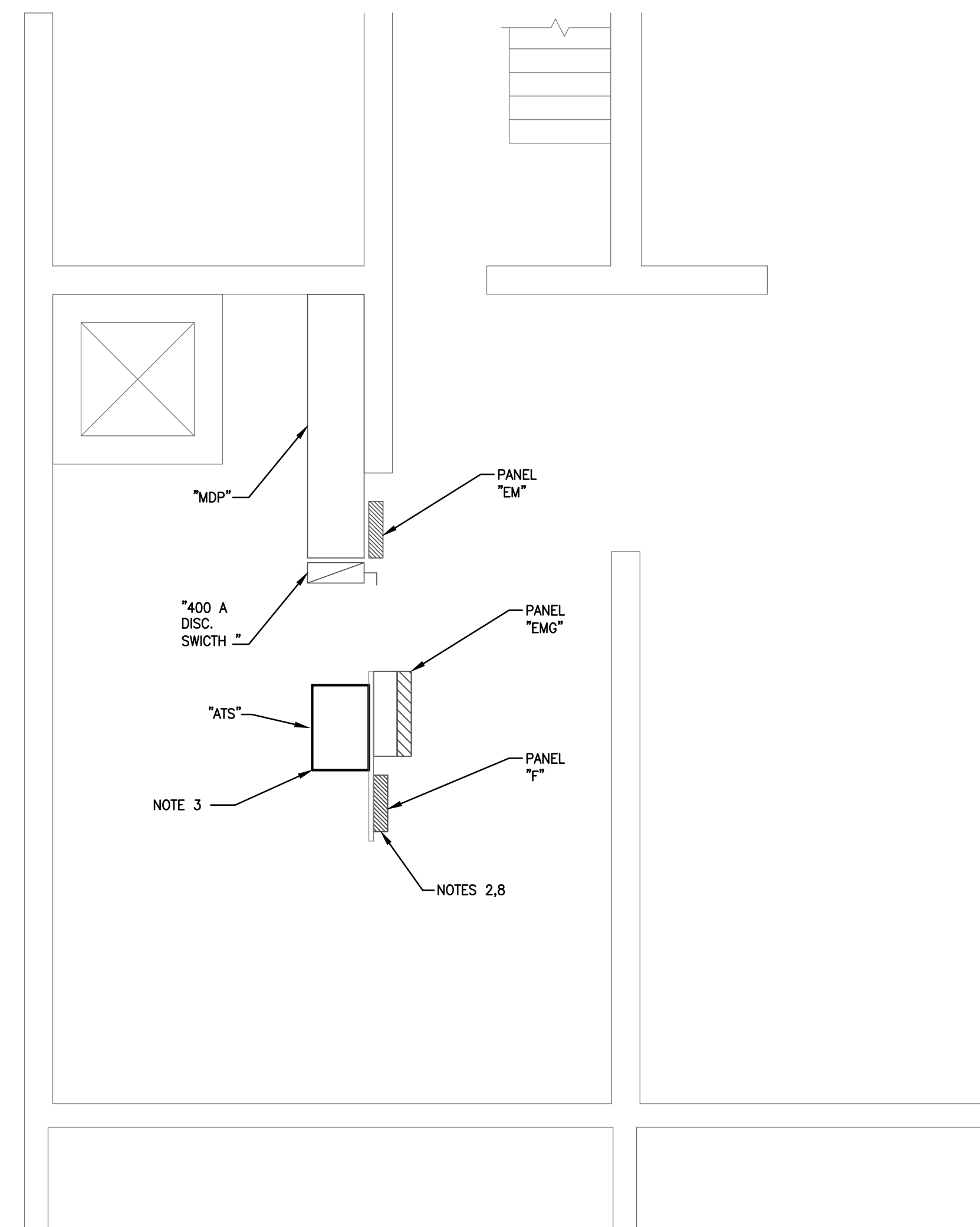
WATERFALL PARTIAL ONE-LINE DEMOLITION DIAGRAM
 NOT TO SCALE



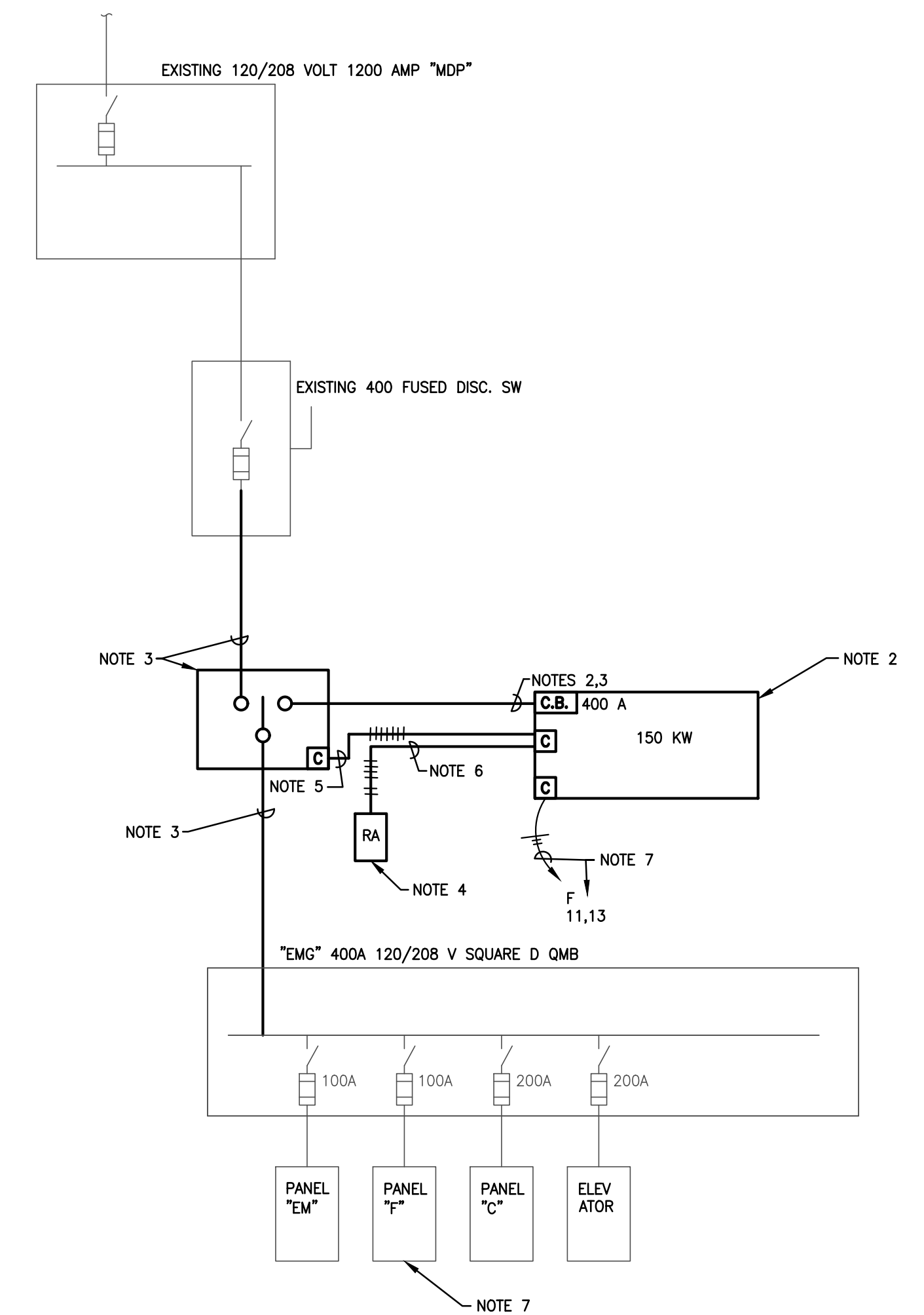
WATERFALL ELECTRICAL SITE PLAN
SCALE: 1/8" = 1'-0"

PLAN NOTES (SITE, FIRST FLOOR, AND ELECTRICAL ROOM):

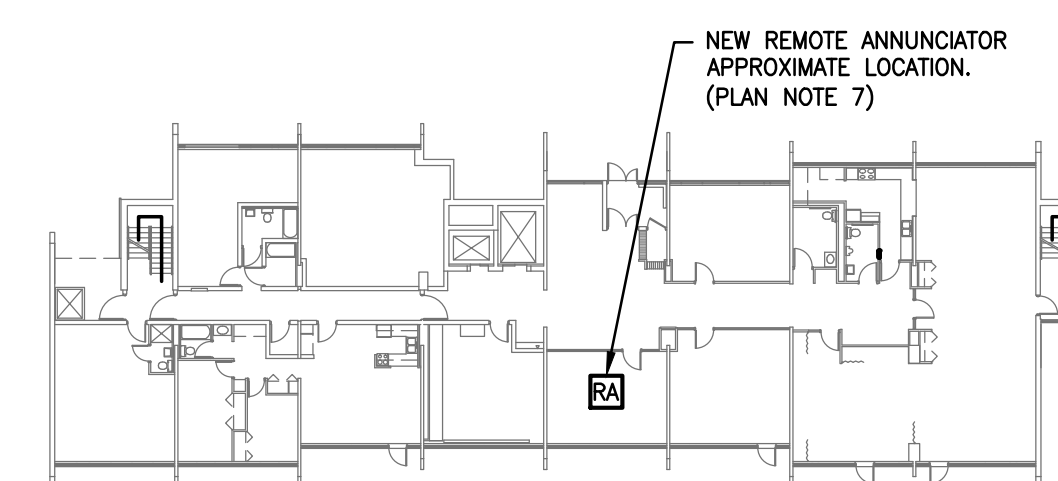
1. PROVIDE NEW GENERATOR. RECONNECT EXISTING 208 VOLT POWER CONDUCTORS. WHERE EXISTING CONDUCTORS AND CONDUIT DO NOT MEET REQUIREMENTS OF NEW GENERATOR CONFIGURATION, PROVIDE NEW QUAZITE, OR EQUAL, DIRECT BURY PULL BOX, AND EXTENDED NEW CONDUCTORS AND CONDUIT TO NEW LOCATION AS REQUIRED. COORDINATE WITH ACTUAL EQUIPMENT PROVIDED, AND EXISTING FIELD CONDITIONS, AS REQUIRED. INCLUDE ALL COSTS.
2. (2) #8, #10 G IN EXISTING CONDUIT TO GENERATOR 50 AMP SINGLE POINT POWER CONNECTION FOR GENERATOR WATER HEATER, OIL HEATER, BATTERY CHARGER, CABINET HEATER, FUEL TANK HEATER, ETC FROM CIRCUIT INDICATED IN EXTG PANEL "F". PROVIDE NEW 240 VOLT 2-POLE 50 AMP C.B. IN EXTG PANEL "F" FOR CIRCUITS INDICATED. COORDINATE NEW WORK WITH ACTUAL EQUIPMENT PROVIDED AND EXISTING FIELD CONDITIONS AS REQUIRED.
3. PROVIDE NEW 400 AMP 208 VOLT AUTOMATIC TRANSFER SWITCH. RECONNECT EXISTING 208 VOLT POWER CONDUCTORS. PROVIDE ADDITIONAL MATERIALS AS REQUIRED.
4. PROVIDE NEW (7) #14 THHN CONDUCTORS FROM GENERATOR TO AUTOMATIC TRANSFER SWITCH FOR CONTROL. UTILIZE EXISTING RACEWAY. COORDINATE WITH ACTUAL EQUIPMENT PROVIDED.
5. (2) #14 TO BATTERY FOR REMOTE ANNUNCIATOR POWER.
6. (2) #14 AND (1) BELDEN #9729 COMMUNICATION CABLE IN 3/4" C TO REMOTE ANNUNCIATOR.
7. INSTALL REMOTE GENERATOR ANNUNCIATOR IN STAFF OFFICE AREA ON FIRST FLOOR, NO MORE THAN 250' FROM GENERATOR. FIELD VERIFY EXACT LOCATION WITH OWNER/ENGINEER.
8. PROVIDE COMPLETE NEW TYPED PANEL SCHEDULE FOR UPDATED CIRCUITS.



WATERFALL ELECTRICAL ROOM POWER PLAN
SCALE: 1/4" = 1'-0"



- NOTES (ONE-LINE DIAGRAM ONLY):**
1. SEE WATERFALL ELECTRICAL ROOM PLAN AND SITE PLAN THIS SHEET FOR ADDITIONAL REQUIREMENTS.
 2. PROVIDE NEW 150 KW, 208 VOLT 3Ø GENERATOR. RECONNECT EXISTING POWER CONDUCTORS WHERE EXISTING CONDUCTORS AND CONDUIT DO NOT MEET REQUIREMENTS OF NEW GENERATOR CONFIGURATION, PROVIDE NEW QUAZITE, OR EQUAL, DIRECT BURY PULL BOX, AND EXTENDED NEW CONDUCTORS AND CONDUIT TO NEW LOCATION AS REQUIRED. COORDINATE WITH ACTUAL EQUIPMENT PROVIDED, AND EXISTING FIELD CONDITIONS, AS REQUIRED. INCLUDE ALL COSTS.
 3. PROVIDE NEW 400 AMP, 240 VOLT AUTOMATIC TRANSFER SWITCH. RECONNECT EXISTING POWER CONDUCTORS. PROVIDE ADDITIONAL MATERIALS AND REWORK AS REQUIRED.
 4. PROVIDE NEW REMOTE ANNUNCIATOR. SEE PLAN NOTE 7.
 5. (7) #14 AWG IN EXISTING CONDUIT. CONNECT TO GENERATOR AND AUTOMATIC TRANSFER SWITCH CONTROLS PER MANUFACTURER'S REQUIREMENTS.
 6. (2) #14 AWG, FOR DC POWER, AND (1) BELDEN #9729 CABLE, FOR COMMUNICATION, IN 1" CONDUIT TO NEW REMOTE ANNUNCIATOR.
 7. (2) #8, #10 G IN EXISTING CONDUIT TO GENERATOR 50 AMP SINGLE POINT POWER CONNECTION FOR GENERATOR WATER HEATER, OIL HEATER, BATTERY CHARGER, CABINET HEATER, FUEL TANK HEATER, ETC FROM CIRCUIT INDICATED IN EXTG PANEL "F". PROVIDE NEW 240 VOLT 2-POLE 50 AMP C.B. IN EXTG PANEL "F" FOR CIRCUITS INDICATED. COORDINATE NEW WORK WITH ACTUAL EQUIPMENT PROVIDED AND EXISTING FIELD CONDITIONS AS REQUIRED.



WATERFALL OVERALL FIRST FLOOR PLAN
NOT TO SCALE