

**Project: White Deer Run Reservoir**  
**Project #: PW2017.010**  
**Bid Number: #23002**  
**Addendum #3**  
**Date: April 5, 2023**

### **BID DUE DATE EXTENSION**

The bid due date is extended to April 18th, 2023, at 2:00 pm.

### **QUESTIONS RECEIVED**

Question 19: The project tech spec section 02223-2 3.01.C states if the bottom of excavations consist of unstable material, the additional excavation and backfilling will be paid for as Extra Work. The General Notes on sheet S001 for Soils/Footings refers to the Geotech report, which is a recommendation, shows possible undercuts ranging from 3.5' to 9'. Please clarify how removal and replacement of unsuitable materials will be handled.

Answer 19: Note B.1. on Sheet S001 states, "...Footings to bear on suitable undisturbed soils or engineered fill capable of supporting the stated safe allowable bearing pressure." Paragraph 02223 3.01.C. states, "If the bottom of excavations consists of material unstable to such a degree that, in the opinion of the E/A, it cannot adequately support the structure, over excavation and backfill with well-compacted granular fill or lean (2,500 psi) concrete. Where excavation and backfill below the Limits of Excavation defined on the Contract Drawings is ordered in writing by the E/A, such additional excavation and backfill will be paid for as Extra Work. Where the Limit of Excavation is not defined, the Limit shall be taken as the base of the footing." Therefore, if undisturbed soil at the elevation of the bottom of the footing cannot provide the stated safe allowable bearing pressure, over excavation and backfilling in accordance with the preceding Paragraph 02223 3.01.C will be required, and as the Limit of Excavation is defined as the base of the footing, any over excavation and backfill below that elevation will be Extra Work and paid for as such. The Bid Form has been revised to include a line item for undercuts and aggregate fill should they be needed.

Question 20: Refer to Sheet C103. The invert for the 12" DIP CL-52 Suction Line is shown to be at EL. 693.50 at the Reservoir & at EL. 687.25 at the Pump Station. This is a difference of 6.25' over 40'. Similarly, the invert for the 8" DIP CL-52 Fill Line is

shown to be at EL. 693.33 at the Reservoir & at EL. 687.08 at the Pump Station. This is a difference of 6.25' over 28'. Please clarify, confirm the elevations to be correct.

Answer 20: The elevations are correct. The contractor will need to provide fittings as necessary from the valve vault to the reservoir. This transition will need to be coordinated with the reservoir tank contractor.

Question 21: Per Instruction to Bidders, Article 18, 18.01, "All Bids will remain subject to acceptance for the period of time stated in the Bid form, ...". The Bid Form does not address this subject. Please advise as to the period of time all bids will remain subject to acceptance.

Answer 21: All Bids will remain subject to acceptance for the period of time 90 days.

Question 22: Regarding Spec Section 02485-4 3.04 A in Lawn and Grasses, "Immediately after rolling seeded areas, place erosion control blanket over all areas that have been seeded. Unless otherwise indicated, also place erosion control blanket at sides and bottom of ditches, swales, and all areas within 10 feet of catch basins in seeded areas." Please clarify exact areas where erosion control blankets are needed, as the plans do not designate exact seeding or erosion control blanket areas?

Answer 22: Paragraph 02485 1.04.A. states, "All lawn areas disturbed by Contractor's construction activities shall be resorted to a grass cover by seeding." In addition, Sheet C102 clearly indicates proposed ditches and swales. Contractor needs to determine how much area they will disturb during the course of construction. The disturbed areas should be within the silt fence area delineated on Sheet C101 and is estimated to be 2.17 acres. See Sheet C101 Addendum No. 3 as attached.

Question 23: Regarding Spec Section 02270-6 2.02 G in Soil Erosion and Sediment Control and page C106 of the plans, are "Portable Sediment Containment Systems" required for this project?

Answer 23: Paragraph 02270 2.02G.1. states, "Portable sedimentation containment systems shall be used to trap and retain sediment prior to pumping the water to drainageways, adjoining properties, and rights-of-way below the rock discharge tank and when other sediment trapping practices cannot be installed due to lack of space or other reasons." If Contractor's means and methods require pumping the water to drainageways, adjoining properties and rights-of-way below the rock discharge tank, or Contractor's means and methods do not allow sufficient space for other sediment trapping practices, then a portable sedimentation containment system will be necessary.

Question 24: Sheet C 103 references the waterlines from valve vaults to edge of tank reservoir. The invert differences are 6' in approx. 20'. This seems excessive without the necessary pipe fittings/bends. Should the contractor include these fitting/bends?

Answer 24: The contractor will need to provide fittings as necessary from the valve vault to the reservoir. This transition will need to be coordinated with the reservoir tank contractor.

Question 25: PCT Specification 12000 2.10 A 9 states the aluminum dome handrail is to be anodized. We respectfully request that this requirement be eliminated. Comment: The anodizing process has become very expensive and causing delays on tank projects. It is our opinion that aluminum is already very resistant to corrosion and that this process is unnecessary.

Answer 25: Aluminum handrail will not be required to be anodized.

Question 26: Please confirm minimum freeboard height above the design liquid level shall be per ACI 372 and AWWA D110 and not as shown on sheet RS102. Comment: Freeboard is a function of the dome/wall interface and is covered by the ACI 372 and AWWA D110. 11" is the minimum for a precast dome roof, while 6" is the minimum for CIP dome roofs.

Answer 26: The freeboard in the reservoir shall be in accordance with AWWA D110.

Question 27: What site class is the project considered?

Answer 27: Site Classification D.

Question 28: Please provide the elevation corresponding to the minimum excavation depth for the preparation of the tank subgrade?

Answer 28: See answer 19.

Question 29: Please replace the term "Tank Contractor" with "Contractor" in Section 12000 3.03.

Answer 29: The term "Tank Contractor" shall be synonymous with "Contractor".

Question 29: Cast in place Concrete Spec Section 03 00. Is the 10-year warranty required for the floor treatments required by the WVRA admixture manufacturer for this project?

- Answer 29: The warranty is such that the WVRA manufacturer is responsible for damage to flooring due to water vapor permeating from the slab.
- Question 30: Cast in place Concrete Spec Section 03 00. Is the Integral Waterproofing Admixtures (IWPA) required for this project? Is it required in all mixes? Can a dosage rate per CY be provided by the engineer?
- Answer 30: This product is not required and would be included at the concrete supplier's discretion.
- Question 31: Cast in place Concrete Spec Section 03 00. Is the Water Vapor Reducing Admixtures (WVRA) required for this project? Is it required in all mixes? Can a dosage rate per CY be provided by the engineer?
- Answer 31: WVRA is not required for this project. If provided, per the spec the WVRA supplier would need to approve the mix design and provide a dosage rate.
- Question 32: Sheet S 201 references under cuts in Detail 9. What is the depth of the undercut?
- Answer 32: Based on the soils report and the depth of the footings significant undercuts are not anticipated. The detail was provided should they be required based on testing during excavation and site preparation. The design bearing pressure required for the footings is 3000 psf which falls within the soils engineer's limit.
- Question 33: Sheet S 202 references a gravel mat'l under the footings on all details. What is this material? Can a note be provided on plan set for such material?
- Answer 33: Details graphically show a CA6 crushed stone base as required to accommodate required bearing conditions, however if the soils meet bearing requirements, then the footings can be cast on undisturbed soil.
- Question 34: Sheet GI 001 references a fire sprinkler system. Will a fire alarm system be required also? Can a spec section be provided for the fire alarm system?
- Answer 34: Sheet SP01 identifies the sprinkler system scope. Yes, a fire alarm system is required. Sheet E1.0 shows the general fire alarm scope and electrical devices including the fire alarm devices. The shop drawing for the sprinkler system and fire alarm system will be required to be submitted to the Countryside Fire Protection District for approval.

Question 35: Please confirm the reservoir inlet and outlet terminate at 6" above the Finished Floor Elevation?

Answer 35: Yes, the reservoir inlet and outlet are to terminate at minimum of 6" above the finished floor elevation of the reservoir.

Question 36: The location of the PLC seems to be missing.

Answer 36: The PLC will be in the SCADA panel.

Question 37: There is no panel schedule for MDP.

Answer 37: See attached revised sheet E1.0, Addendum No. 3.

Question 38: Sheet E101 from HMG shows an MCC in the electrical room. Please confirm there is no MCC on this project.

Answer 38: See attached revised sheet E1.0, Addendum No. 3.

Question 39: The electrical room #104 layout shown on HMG plan sheet E101 & Cartland & Kraus plan sheet E1.0 do not match. It appears Cartland & Kraus plan sheet E1.0 is correct based off of the sheet Asaturian Eaton site plan sheet E1.0.

Answer 39: See attached revised sheet E1.0, Addendum No. 3.

Question 40: Asaturian Eaton Plan Sheet E1.0:

- A. Is there a panel schedule for MDP showing breaker ratings and sizes?
- B. There is not a conduit tag for the Com Ed primary conduit from the pole to the transformer. Please confirm if the EC is to furnish and install an empty conduit form the Com Ed furnished and installed primary cable, and if so please confirm the size.
- C. The cable from the MDP to the VFD is called out as TAG #12 which is "Drive Flex Cable". Please confirm if "Drive Flex Cable" is needed from the MDP to the VFD, or only from the VFD load side to the pump.
- D. The tank access hatch sensors are not shown on this plan, but shown on Hezner sheet T100. Please confirm conduit and cable to these sensors.

- E. The photo metric Hezner sheet ES100 shows a site light pole and head. Please confirm conduit and cable pathway and size of conduit and cable.

Answer 40: See attached revised sheet E1.0, Addendum No. 3 for Items A through C. Item D, see sheet E101 Conduit Schedule. Item E, see sheet E101 Conduit Schedule.

Question 41: HMG Sheet E101 & E102

- A. E101: Each pump shows a disconnect switch, however pump disconnects are not shown Asaturian Eaton 1-line plan sheet E1.0. If disconnects are required please confirm amperage and NEMA rating.
- B. Can the equipment tags off of the P&ID E102 be shown on the equipment schedule shown on plan sheet E101?
- C. E102: Why is the Fill Valve WDR-FV-0511 Greyed out?
- D. Please confirm the intent is to combine analog and digital signals in the same conduit.

Answer 41: See attached revised sheet E1.0, Addendum No. 3 for Item A. Item B, equipment tags will not be added to equipment schedule. Item C, drafting error the fill valve should not be greyed out. Item D, no, the analog and digital signals are separated. The only 2 conduits with analog and digital are C5 and C6 from the flow meters for the flow rate and totalizer pulse.

Question 42: Lake County Contractor Qualification Form, Page CQF-1, Item 2: Please confirm that the U.S. Department of Labor Registration Number for Proposed Major Subcontractors can be provided after the bid upon award of the project.

Answer 42: The Contractor Qualification Form including the U.S. Department of Labor Registration Number must be submitted with your bid.

Question 43: Sheet C103 references a tie-in for the gas line from Greggs Parkway. Can a location at Greggs Pkwy be provided? Can the size of gas line be provided? Does this scope need to be open cut installation?

Answer 43: The gas line connection at the generator is anticipated to be 3-inch. The location of the tie and routing to the site will need to be coordinated with Northshore Gas. There is a gas main along the south side of Greggs Parkway. We anticipate the gas line will be directionally drilled to the site.

Question 44: Please change Section 12000 2.09 A and 3.12 A to read "A. All exterior precast exterior dome surfaces shall be given a two-coat finish consisting of one coat of damp proofing product such as "Tamoseal with AKKR0-7T" or equal, and one coat of "Tammscoat Smooth", Modac Acrylic, or equal. All exterior cast-in-place dome surfaces and exposed wall surfaces shall be given a two-coat finish of a noncementitious 100 percent acrylic such as "Tammscoat Smooth", Modac Acrylic, or equal. Work shall be performed by workmen skilled in the application of these types of products. The manufacturer's application instructions shall be submitted to the Engineer for approval. The Contractor shall confer with the manufacturer's representatives regarding application techniques and shall follow the manufacturer's instructions implicitly."

Answer 44: The specification section will not be amended.

Question 45: Sheet C103 references a sanitary sewer tie-in on the golf course. Are there any special requirements required for this scope?

Answer 45: The connection to the 8-inch sanitary sewer is within a Lake County easement on the northside of the property line and very south edge of the driving range. No special restoration is required. Restoration to include topsoil, seed and blanket.

Question 46: Limited detail for the generator is shown in the Plans. On projects with similar scope, the generator required exhaust ductwork for the radiator, a muffler/silencer, an exhaust stack through the roof or wall, motor operated damper on the intake louver that closed when the generator was not running so the room wouldn't get so cold in the winter. Please provide comment, confirm all requirements for the generator.

Answer 46: The generator shall be supplied with motorized intake and exhaust louver/dampers, exhaust ductwork and wall thimble and discharge shroud. See attached typical section drawing for the generator as attached.

Question 47: Does the electrician install the underground conduit from the onsite ComEd Transformer to the service drop / pole at the road and what size and how many conduits?

Answer 47: See attached revised sheet E1.0, Addendum No. 3.

Question 48 Does the reservoir need to be designed for uplift? Is the anticipated potential vertical rise (PVR) less than 1"? Is the anticipated differential settlement less than 2"? Is the anticipated total settlement less than 6"?

Answer 48: The magnitude of settlement is dependent upon a combination of factors which include foundation design, foundation elevation, magnitude of load applied to the soil at that elevation, underlying soil type, soil strength and condition, subsurface water condition and other considerations. A preliminary estimate based upon initial design information suggests for a properly constructed subbase the vertical rise should be less than 1", differential settlement should be less than 2" and total differential settlement should be less than 6".

## **TO THE CONTRACT DOCUMENTS**

1. Instruction to Bidders, Article 18, 18.01, Page IB-9 add the following "All Bids will remain subject to acceptance for the period of time 90 days."
2. Supplementary Conditions – Amend the Supplementary Conditions as follows:

### **SC 6.06. – WAIVER OF RIGHTS**

Amend Paragraph 6.06.A of the General Conditions by deleting "Paragraph 6.05" in the 1st line and inserting "SC 6.03" in its place.

### **SC 6.07. – RECEIPT AND APPLICATION OF PROPERTY INSURANCE PROCEEDS**

Amend Paragraph 6.07.A. of the General Conditions by deleting "Paragraph 6.05" in the 2nd line and inserting "SC 6.03" in its place.

Amend Paragraph 6.07.B. of the General Conditions by deleting "Paragraph 6.05" in the 5th line and inserting "SC 6.03" in its place.

## **ARTICLE 7 – CONTRACTOR'S RESPONSIBILITIES**

### **SC 7.02**

Amend Paragraph 7.02.B of the General Conditions as follows: '...during regular working hours, Monday through Friday between the hours of 7:00 a.m. and 3:30 p.m. and Saturday 8:30 a.m. and 3:30 p.m. Absolutely no work will be allowed on Sundays or holidays, including Martin Luther King Jr. Day and Juneteenth, unless prior approval of the Owner and Village of Vernon Hills has been given.'

## **ARTICLE 13 – COST OF THE WORK; ALLOWANCES; UNIT PRICE WORK**

### **SC 13.01.**

Amend Paragraph 13.01.B.5.f of the General Conditions by deleting "Paragraph



6.05" in the 5th line and inserting "SC 6.03" in its place.

**ARTICLE 15 – PAYMENTS TO CONTRACTORS; SET-OFFS; COMPLETION;  
CORRECTION PERIOD**

**SC 15.04.**

Amend Paragraph 15.04.A.4 of the General Conditions by deleting "Paragraph 6.05" in the 2nd line and inserting "SC 6.03" in its place.

3. Replace the Bid Form in its entirety and replace it with the attached Addendum No. 3 Bid Form.

**TO THE SPECIFICATIONS**

1. Section 11285 – MECHANICAL MIXING SYSTEM, Page 11285-2, Article 2.01.A amend as follows:  
  
"A. Manufacturers: Big Wave Technologies, Ixom Watercare, Inc., Kasco and Pax Water Technologies."
2. Section 11285 – MECHANICAL MIXING SYSTEM, Page 11285-3, Article 2.02.C amend as follows:  
  
"C. Number of units required to meet the project objectives; the following number of mixers are required; one (1) submersible mixing inside the 2.0 million gallon reservoir."

**TO THE DRAWINGS**

1. See revisions to Sheet E1.0 Addendum No. 3 as attached to this Addendum.
2. See revisions to Sheet C101 Addendum No. 3 as attached to this Addendum. Added location of construction entrance and Note 4.
3. Sheet C103: Revise the following for the 6-inch and 8-inch sanitary sewer; the 6-inch and 8-inch sanitary sewer shall be SDR21.

4. Sheet C104: Revise the Pipe Bedding and Trench Backfill as follows; delete "CA-7 or CA-11 placed in 6" layers and compacted (No Recycled Material)" and replace with "CA-7 crushed limestone aggregate placed in 6" layers and compacted (No Recycled Material)"

# **BID FORM**

**(Addendum No. 3)**

**BID NUMBER: 23002**

**PROJECT NAME: White Deer Run Reservoir**

**Project Number: PW#2017.010**

for the Lake County Public Works Department  
Lake County, Illinois

THIS BID IS SUBMITTED TO:

Lake County Public Works Department  
650 West Winchester Road  
Libertyville, IL 60048

(hereinafter called OWNER)

- 1) The undersigned Bidder proposes and agrees, if this bid is accepted, to enter into an Agreement with OWNER in the form included in the Contract Documents to perform and furnish all Work as specified or indicated in the Contract Documents for the Bid Price and within the Bid Times indicated in this Bid and in accordance with the other terms and conditions of the Contract Documents.
- 2) Bidder accepts all of the terms and conditions of the Official Notice to Bidders and Instructions to Bidders, including without limitation those dealing with the disposition of the Bid Security. This Bid will remain open for 90 days after the bid opening. Bidder will sign and deliver the required number of counterparts of the Agreement with the Bonds, evidence of insurance coverage, and other documents required by the Bidding Requirements within 10 days after the date of OWNER's Notice of Award.
- 3) In submitting this Bid, Bidder represents, as more fully set forth in the Agreement, that:
  - a) Bidder has examined and carefully studied all the Bidding Documents and Addenda, receipt of all which is acknowledged.
  - b) Bidder has visited the site and become familiar with and satisfied itself as to the general, local, and site conditions that may affect cost, progress, performance and furnishing of the Work;
  - c) Bidder is familiar with and has satisfied itself as to all federal, state, and local laws and regulations that may affect cost, progress, performance, and finishing of the Work.

- d) Bidder acknowledges that OWNER and ENGINEER do not assume responsibility for the accuracy or completeness of information and data shown or indicated in the Bidding Documents with respect to Underground Facilities at or contiguous to the site. Bidder has obtained and carefully studied (or assumes responsibility for having done so) all such examinations, investigations, explorations, tests, studies, and data concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the site or otherwise which may affect cost, progress, performance or furnishing of the Work or which relates to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder and safety precautions and programs incident thereto. Bidder does not consider that any additional examinations, investigations, explorations, tests, studies or data are necessary for the determination of this Bid for performance and furnishing of the Work in accordance with the time, price, and other items and conditions of the Contract Documents.
  - e) Bidder is aware of the general nature of the Work to be performed by OWNER and others at the site that relates to Work for which the Bid is submitted as indicated in the Contract Documents.
  - f) Bidder has correlated the information known to Bidder from information and observation obtained from visits to the site, reports, and drawings identified in the Contract Documents and all additional examinations, investigations, explorations, tests, studies, and data with the Contract Documents.
  - g) Bidder has given ENGINEER written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Contract Documents and the written resolution thereof by ENGINEER is acceptable to Bidder, and the Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performing and furnishing the Work for which the Bid is submitted.
  - h) This Bid is genuine and not made in the interest or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, or organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any person, firm or a corporation to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over OWNER.
  - i) Bidder certifies that Bidder is not barred from bidding on this Contract as a result of a conviction for either bid-rigging or bid-rotating under the provisions contained in chapter 38, Paragraphs 33E-3 and 33E-4 of the Illinois Revised Statutes.
- 4) Bidder will complete the work in accordance with the Contract Documents for the following lump sum price.

## Bid Form

Item	Description	Unit	Bid Price
1	Site Work, Yard Piping, Site Utilities including but not limited to; grading, access drive, fencing, gates, site piping, fittings, fire hydrants, manholes, valves, valve vaults, trenching and backfill and site restoration.	LS	
2	Ground Storage Reservoir including but not limited to; site preparation, foundation, concrete, piping, tank accessories and painting.	LS	
3	Booster Pump Station Building including but not limited to; site preparation, foundation, concrete, masonry, building utilities, building accessories, and painting.	LS	
4	Booster Pumps and Equipment including but not limited to; pumps, control valves, chlorine analyzers, dehumidifiers, chemical metering pumps, flow meters and reservoir mixer.	LS	
5	Interior Piping and Valves including but not limited to; pipe, fittings, valves, pipe supports, sample lines, sample taps and painting.	LS	
6	SCADA System including but not limited to; panels, hardware, software, and programming.	LS	
7	Electrical and Instrumentation including but not limited to; conduit, wiring, MCC's, panels, generator, gauges, level sensors, pressure switches and pressure monitoring.	LS	
8	Undercuts for the Reservoir Tank Area 2,700 cu.yd. including but not limited to excavation, excavation stabilization, dewatering, hauling to onsite disposal area and grading and shaping of onsite disposal area.	LS	
9	Undercut Aggregate Fill for the Reservoir Tank Area 2,700 cu.yd. including but not limited to the placement and compaction of the aggregate structural fill for the undercut areas associated with the tank subbase preparation.	LS	
10	Owner Directed Allowance – This item is reserved to be used at the Owner's discretion for unforeseen conditions. The Bidder shall not factor the allowance into their bid for performing the required work.	LS	\$100,000.00
	<b>Total Bid Amount</b> The Total Bid Amount is the Owner Directed Allowance (Line Item 10) plus All Other Bid Items (Line Items 1 through 9 in the Bid Form)		

TOTAL BID AMOUNT FOR THE DETERMINATION OF THE LOWEST BID

(written) \_\_\_\_\_

(\$ \_\_\_\_\_ (figures))

Note 1) TO BE CONSIDERED RESPONSIVE, BIDDER MUST SUPPLY PRICING INFORMATION FOR EVERY SECTION OF THIS CONTRACT AND MUST COMPLY WITH ALL THE REQUIREMENTS IN THE BIDDING DOCUMENTS. IF BIDDER SUPPLIES PRICING FOR MORE THAN ONE ALTERNATE CONSTRUCTION METHOD FOR ANY SECTION, AWARD SHALL BE BASED UPON THE LOWEST COST METHOD FOR THAT SECTION.

Note 2) THE OWNER RESERVES THE RIGHT TO REMOVE ANY SECTION FROM THE CONTRACT AWARD FOLLOWING DETERMINATION OF THE LOW BIDDER BASED UPON THE SUM OF ALL SECTIONS.

- 5) Bidder agrees that the work will be substantially completed and ready for final payment in accordance with Paragraph 15.06B1 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.
- 6) Bidder accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the work within the times specified in the Agreement.
- 7) The following document is attached and made a condition of this Bid:

Required Bid Security in the form of \_\_\_\_\_  
(Certified Check or Bid Bond)

in the amount of \_\_\_\_\_  
(Dollars or Percent)

- 8) Communications concerning this Bid shall be addressed to the Bidder as indicated below:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

State: \_\_\_\_\_

Telephone No.: \_\_\_\_\_

- 9) The terms used in this Bid are defined in the General Conditions of the Construction Contract or the Instructions to Bidders.



\_\_\_\_\_  
Phone No.: \_\_\_\_\_

***A Joint Venture:*** By (Written) \_\_\_\_\_  
(Typed) (Name)  
\_\_\_\_\_  
(Address)

By (Written) \_\_\_\_\_  
(Typed) (Name)  
\_\_\_\_\_  
(Address)

Phone number and address for receipt of official communications:

\_\_\_\_\_  
\_\_\_\_\_

(Each joint venturer must sign. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in the manner indicated above).

Sworn and subscribed to before me this

\_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_ .

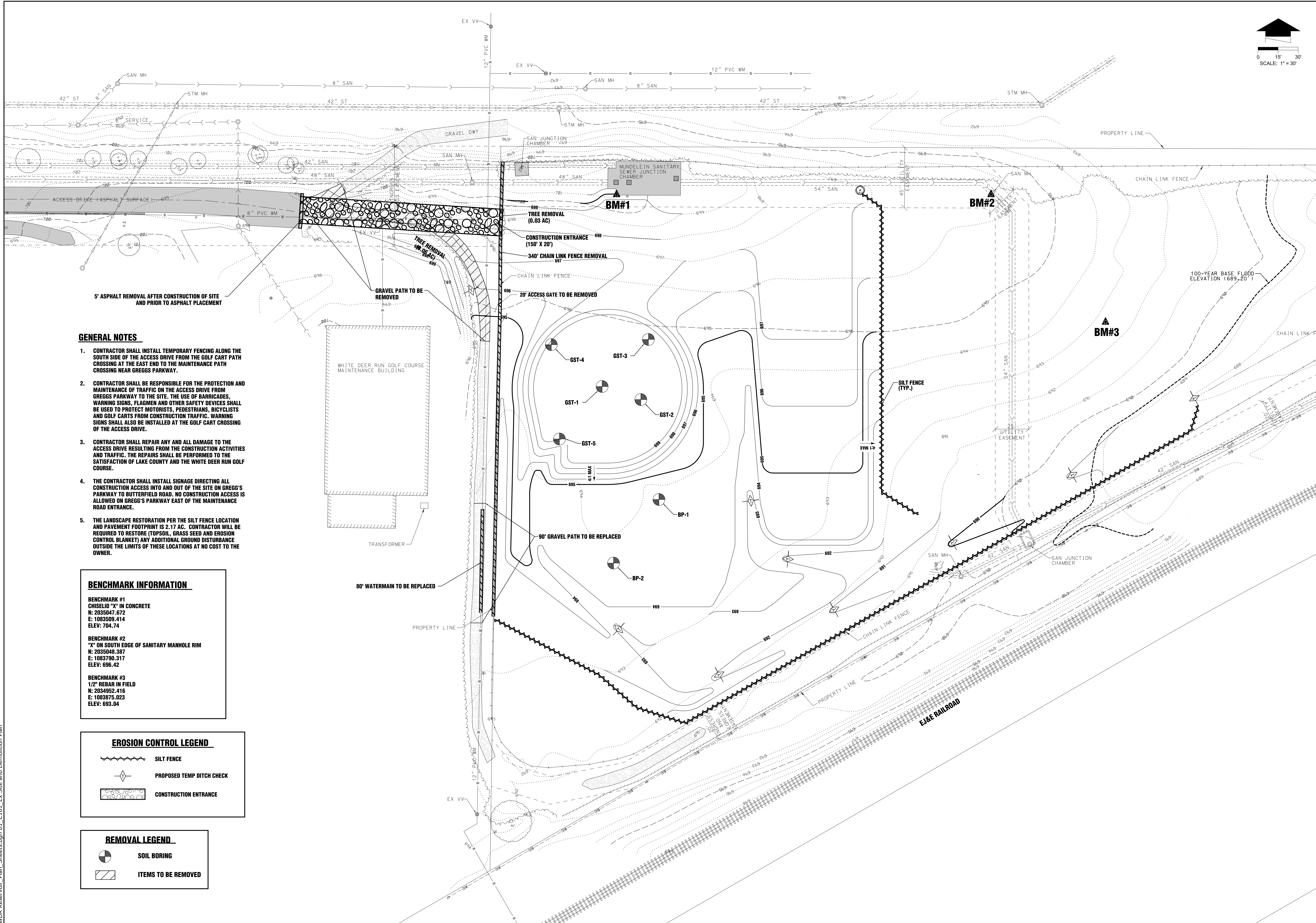
\_\_\_\_\_  
Notary or other officer authorized to administer oaths

My commission expires: \_\_\_\_\_

Bidders shall not add any conditions or qualifying statements to this Bid as otherwise the Bid may be declared irregular as being not responsive to the advertisement. BIDDERS SHALL USE THIS BID FORM IN SUBMITTING THEIR BIDS.



WDR Reservoir Plan Sheets.dgn 01\_C101\_ Ex Site and Demolition Plan



4/5/2023

REVISIONS

1

ADDENDUM NO. 3

EXISTING SITE & DEMOLITION PLAN

LAKE COUNTY PUBLIC WORKS DEPARTMENT  
WHITE DEER RUN RESERVOIR

IL PROFESSIONAL DESIGN FIRM NO. 184-000899  
WWW.HMENGINEERS.COM

HMG

ENGINEERS

SURVEY

DAA

DESIGN

SEZ

DRAWN

RWM

CHECKED

WRR

DATE

DECEMBER 30, 2022

SHEET

C101

JOB NO.

22002150

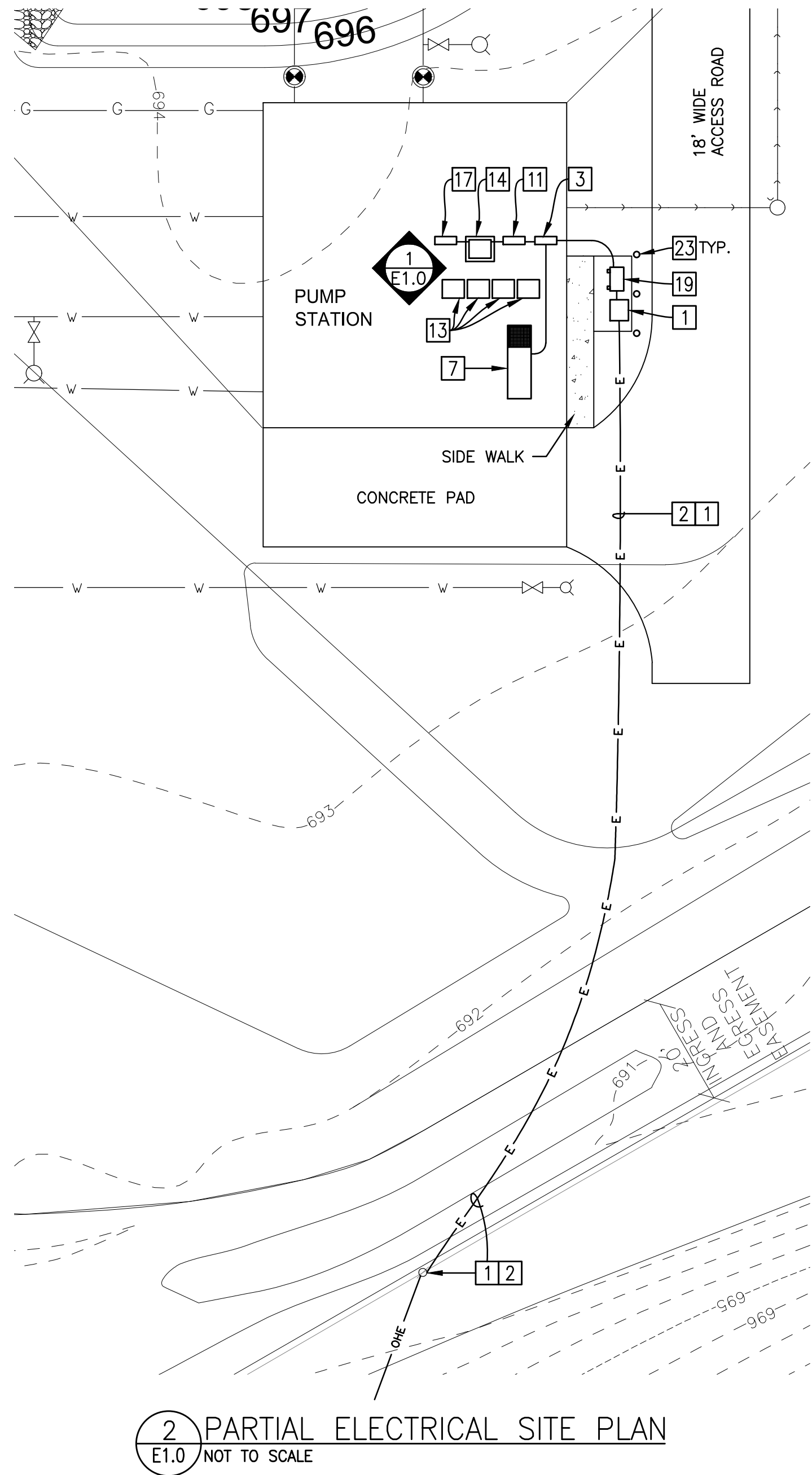


TRANSFORMER SCHEDULE										
MARK	KVA	PHASE	PRIMARY	SECONDARY	MAX. DIM. HxWxD	FULL CAP. TAPS	K FACTOR	°C RISE	WEIGHT	ENCLOSURE
T-1	112.5	3Ø	480V	120/208V	44x32x27	6 2.5% 2+, 4-	K4	115°	925	NEMA 1

TRANSFER SWITCH SCHEDULE											
DESIGNATIONS	LOAD	UNIT TYPE (NOTE 1)	RATINGS							ENCLOSURE TYPE	NOTES
			VOLTS	CURRENT AMPS MINIMUM	MAIN CB AMPS	PH	POLES	CLOSING AND WITHSTAND			
								AMPS (NOTE 4)	CYCLES		
ATS-1	MDP	SERVICE RATED AUTOMATIC TRANSFER	277/480	600	600	3	3	40K	3	NEMA 1 INDOOR	1 - 5
NOTES: 1. DELAYED TRANSITION SWITCH ACTION. 2. PROTECTED BY MOLDED CASE CIRCUIT BREAKER, BOTH SOURCES. 3. CLOSING AND WITHSTAND CURRENT RATINGS ARE MINIMUM SYMMETRICAL AMPERES. RATINGS MAY BE ATTAINED BY USING ATS MANUFACTURERS CLOSING AND WITHSTANDING RATINGS. 4. PROVIDE ENGINE STARTUP AND SHUTDOWN CONTACTS. 5. PROVIDE INTEGRAL TVSS (240KA) WITH SURGE COUNTER.											

PANEL: MDP			MFGR:			MOUNTED: SURFACE			LOCATION: ELECTRIC RM.		
AMPS: 600			VOLTS: 277/480			PHASE/WIRE: 3Ø/4W			MAINS: 600A MCB		
LOAD	LOAD, KW			WIRE	BKR	POLE	CIRC	CIRC	POLE	BKR	WIRE
	A	B	C								
BRSP-1	34.3			3/0	200	3	1	2	3	200	3/0
---		34.3					3	4			
---			34.3				5	6			
BRSP-2	34.3			3/0	200	3	7	8	3	200	3/0
---		34.3					9	10			
---			34.3				11	12			
T-1/P-1	12.09				175	3	13	14	1	20	
---		10.80					15	16	1	20	
---			10.50				17	18			
SPARE	0.00				20	1	19	20			
SPARE		0.00			20	1	21	22			
200A 3P SPACE			0.00				23	24			
---	0.00						25	26			
---		0.00					27	28			
---			0.00				29	30			
---	0.00						31	32			
---		0.00					33	34			
---			0.00				35	36			
---	0.00						37	38			
---		0.00					39	40			
---			0.00				41	42			
SUBTOTAL	80.69	79.40	79.10							149.29	
										148.00	
										147.70	
										444.99	
WITH 200 KA INTEGRAL TVSS WITH COUNTER, ALARM & TEST BUTTON				TOTAL PHASE A =				149.29			
				TOTAL PHASE B =				148.00			
				TOTAL PHASE C =				147.70			
				TOTAL PANEL				444.99			

AIC 42,000, COPPER BUSSING, DOOR IN DOOR COVER, MAX. LOAD WITH THREE PUMPS RUNNING 487 APMS

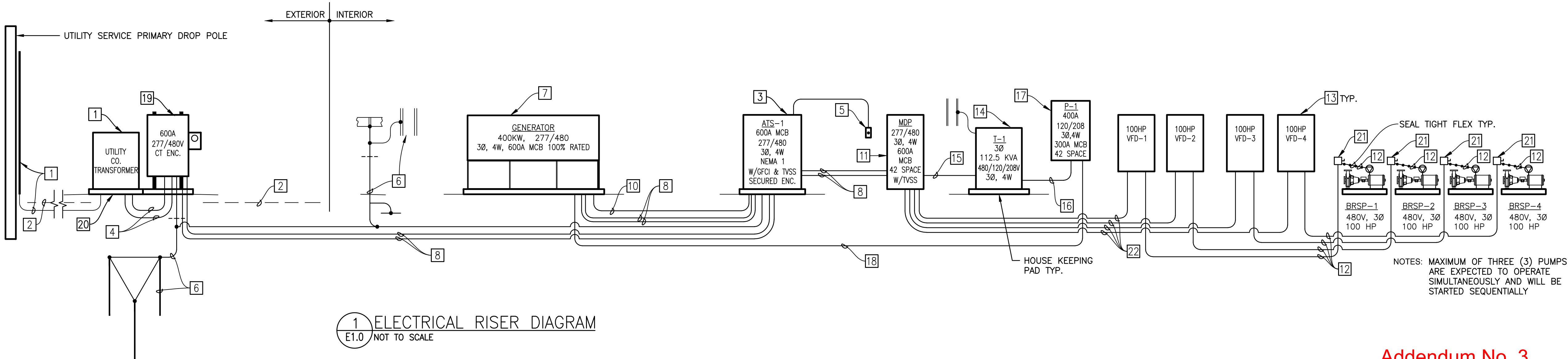


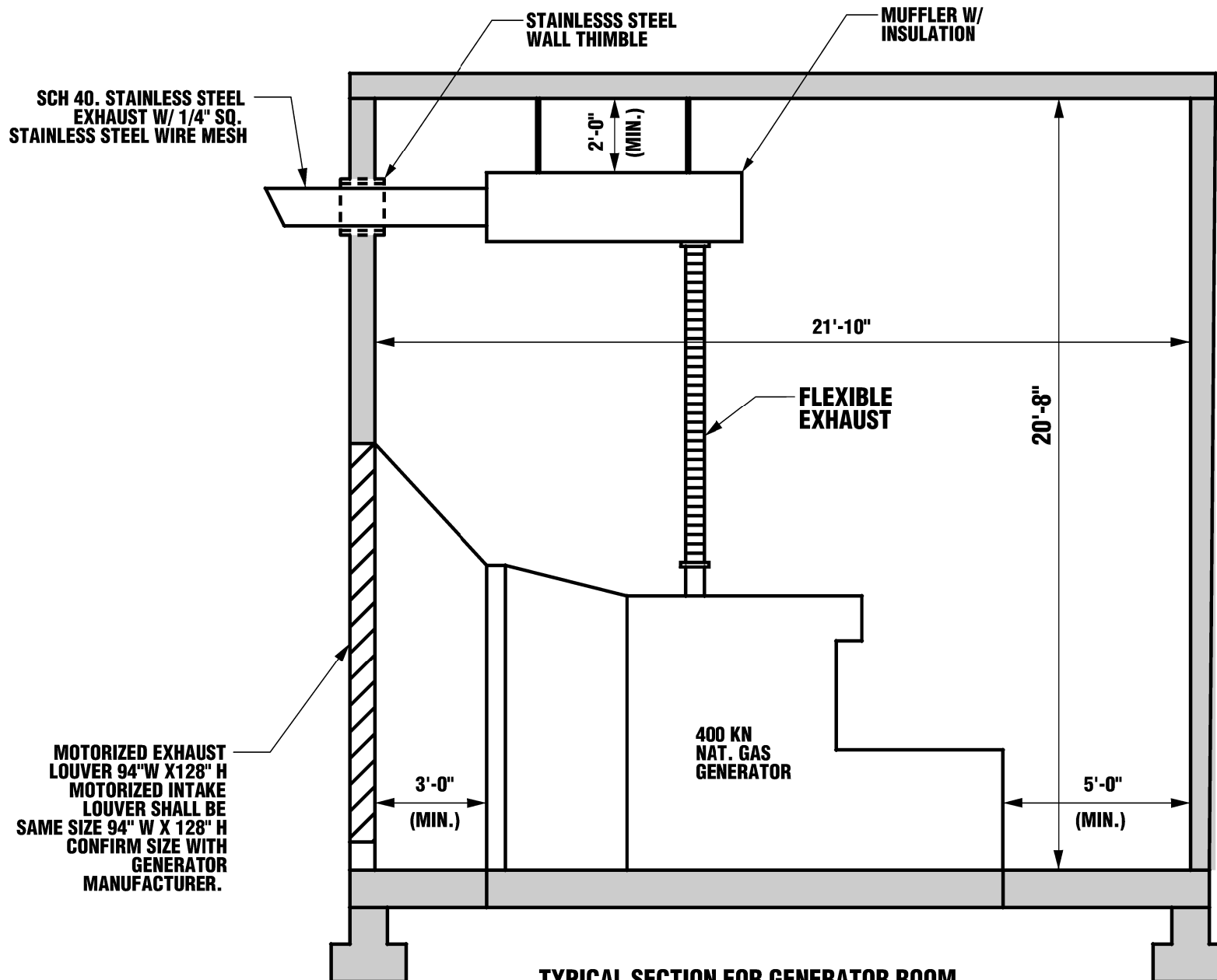
2 PARTIAL ELECTRICAL SITE PLAN  
E1.0 NOT TO SCALE

KEYED NOTES FOR SHEET E1.0:

- UTILITY COMPANY COM ED PRIMARY SERVICE OVER HEAD DROP POLE AND TRANSFORMER. CONTRACTOR TO PROVIDE 4"Ø PRIMARY CONDUIT DROP, LONG RADIUS BENDS, 4" UNDER GROUND CONDUIT WITH PULL TAPE ALL AS PER COM ED REQUIREMENTS. COM ED TO PROVIDE POLE AND PRIMARY CONDUCTORS FROM DROP TO TRANSFORMER.
- PROVIDE LOCATABLE WARNING TAPE OVER UNDERGROUND ELECTRIC AT 6" BELOW GRADE.
- PROVIDE SERVICE RATED TRANSFER SWITCH AS SCHEDULED.
- PROVIDE 4-350 MCM IN 3" CONDUIT.
- PROVIDE GENERATOR EMERGENCY STOP SWITCH OUTSIDE EQUIPMENT ROOM.
- PROVIDE 2/0 GROUNDING CONDUCTORS IN 1" CONDUIT CONNECTED TO CONCRETE REINFORCING, METALLIC WATER PIPING AND THREE ELECTRODE (5/8"x10' LONG CLAD WITH EXOTHERMIC WELDED CONNECTIONS) GROUNDING FIELD.
- PROVIDE NATURAL GAS GENERATOR AS SPECIFIED.
- PROVIDE 4-350 MCM & #2 GROUND IN 3" CONDUIT.
- NOT USED.
- PROVIDE ALL POWER AND CONTROL WIRING BETWEEN GENERATOR AND TRANSFER SWITCH.
- PROVIDE MAIN DISTRIBUTION. PANEL MDP AS SCHEDULED AND SPECIFIED.
- PROVIDE 4-3/0 & #6 GRD. LUTZE DRIVE FLEX CABLE IN 2" CONDUIT.
- PROVIDE 100 HP WALL MOUNTED VFD AS SPECIFIED.
- PROVIDE DRY TYPE TRANSFORMER AS SHOWN AND SCHEDULED.
- PROVIDE 3-3/0 & #6 GROUND IN 2" CONDUIT.
- PROVIDE 4-350 MCM & #2 GND. IN 3" CONDUIT.
- PROVIDE PANEL P-1 AS SHOWN AND SCHEDULED, SEE SHEET E1.1.
- PROVIDE ALL POWER FOR CHARGER AND BLOCK HEATER WIRING TO GENERATOR AS REQUIRED.
- PROVIDE 600A, 277/480V CT/ METERING ALUMINUM ENCLOSURE WITH METER BASE AND EQUIPMENT STRUT RACK SUPPORT AS PER UTILITY COMPANY COM ED REQUIREMENTS ON CONCRETE PAD WITH STRUT RACK SUPPORT.
- PROVIDE CONCRETE CAST IN PLACE TRANSFORMER PAD AS PER COM ED REQUIREMENTS. COORDINATE ALL WORK WITH COM ED. TRANSFORMER INSTALLED BY COM ED.
- PROVIDE 3 POLE NON-FUSE 200A, NEMA 1, HEAVY DUTY TYPE DISCONNECT AND STRUT RACK MOUNTING SUPPORT.
- PROVIDE (4)3/0 & #6 GRD. IN 2"Ø.
- PROVIDE BOLLARD, SEE DETAIL 5/AE-201.

- NOTES:  
1. ALL CONDUCTOR SIZING IS BASED ON N.E.C. TABLES FOR COPPER CONDUCTORS AT 75°C (167°F).  
2. ALL EXTERIOR CONDUIT TO BE AT MINIMUM 30" BURIAL.





**TYPICAL SECTION FOR GENERATOR ROOM**  
**SCALE: 1/4" = 1'-0"**