GENERAL NOTES
1. THE CONTRACTOR SHALL HAVE AT LEAST ONE (1) FULLY EXECUTED COPY OF THE CONTRACT DOCUMENTS AT THE JOB SITE AT ALL TIMES.
2. ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH THE STANDARDS OF THE CITY OF TULSA ENGINEERING DEPARTMENT.
3. CONTRACTOR SHALL SUBMIT A CONSTRUCTION SAFETY PLAN TO THE ENGINEER PRIOR TO COMMENCEMENT OF WORK. THE SAFETY PLAN SHALL ADDRESS BUT NOT BE LIMITED TO ISSUES SUCH AS TRAFFIC CONTROL, WORKSITE SAFETY, MANHOLE AND STRUCTURE VENTILATION, CONFINED SPACE ENTRY, WORKER PROTECTIVE EQUIPMENT, FIRST AID, HYGIENE, AND OTHER RELATED TOPICS. CONTRACTOR WILL BE EXPECTED TO FOLLOW THE SAFETY PLAN AND PERFORM THE WORK IN A MANNER THAT BEST PROTECTS THE SAFETY OF WORKERS, INSPECTORS, BYSTANDERS, AND OTHERS WHO MAY BE IN THE VICINITY OF THE PROJECT.
4. CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE AND DOCUMENT THE LOCATION OF ALL EXISTING UTILITY LINES, PIPING, CONDUITS AND STRUCTURES (BURIED OR EXPOSED) REGARDLESS OF WHETHER OR NOT THEY ARE SHOWN ON THE DRAWINGS. DURING CONSTRUCTION, CONTRACTOR SHALL CARRY OUT OPERATIONS IN A MANNER THAT WILL PREVENT DAMAGE TO ALL EXISTING UTILITIES OR STRUCTURES. ANY SUCH DAMAGE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. IF THERE IS ANY INTERFERENCE TO THE ALIGNMENT OR ELEVATION OF NEW FACILITIES, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER SUCH THAT THE CONFLICT CAN BE RESOLVED. A LIST OF UTILITY COMPANIES WHICH MAY HAVE FACILITIES IN THE PROJECT AREA ARE LISTED ON THE PROJECT CONTACT LIST SHOWN ON THE COVER SHEET.
5. CONTRACTOR SHALL MAINTAIN ALL PLANT FACILITIES IN SERVICE AT ALL TIMES EXCEPT WHEN TEMPORARY REMOVED FROM SERVICE TO ALLOW CONNECTIONS OR MODIFICATIONS AS SHOWN ON THE DRAWINGS OR ADRESSED IN THE SPECIFICATIONS. CONTRACTOR SHALL BE SUBJECT TO THE SEQUENCING REQUIREMENTS OF THESE DRAWINGS AND THE SPECIFICATIONS AND SHALL PROVIDE THE OWNER AND OPERATOR FOURTEEN (14) DAYS NOTICE BEFORE THE COMMENCEMENT OF WORK WHICH WILL REQUIRE ANY PUMPING UNIT, TREATMENT UNIT, WATER LINE, SEWER, FORCE MAIN OR OTHER FACILITY TO BE TAKEN OUT OF SERVICE. THE CONTRACTOR SHALL ALSO NOTIFY THE OPERATOR AT LEAST 24 HOURS IN ADVANCE WHEN THE OPERATION OF ANY EQUIPMENT, VALVES, PUMPS OR OTHER FACILITIES ASSOCIATED WITH THE FACILITY IS REQUIRED. ALL OPERATIONS SHALL BE PERFORMED ONLY BY THE OPERATOR'S STAFF.
6. CONTRACTOR SHALL CARRY OUT CONSTRUCTION OPERATIONS IN A MANNER THAT WILL PREVENT DAMAGE TO ALL EXISTING FACILITIES. ANY SUCH DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
7. CONTRACTOR SHALL EXPOSE ALL EXISTING PIPING THAT SHALL BE MODIFIED OR CONNECTED TO NEW PIPING. CONTRACTOR SHALL, CONFIRM THE TYPE OF PIPING, JOINTS IN USE, DIMENSIONS AND LOCATIONS (BOTH HORIZONTALLY AND VERTICALLY), AND GATHER ALL OTHER INFORMATION REQUIRED FOR PROPER INSTALLATION AND INSTALLATION OF THE CONNECTIONS OR MODIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO RECON CER THE NEW PIPING TO THE CONDITIONS FOUND.
8. ALL DIMENSIONS AND ELEVATIONS WITH A, OR ATTRIBUTED TO AN EXISTING ITEMS SHALL BE CONFIRMED BY THE CONTRACTOR. ADJUSTMENTS TO ACCOMMODATE DIFFERENCES IN ACTUAL ELEVATIONS OR DIMENSIONS TO THOSE SHOWN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ADJUSTMENTS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE THE WORK PROGRESSES.
9. CONSTRUCTION ITEMS SHOWN ON THE DRAWINGS OR OTHERWISE REQUIRED BY CODE BUT ARE NOT SPECIFICALLY INCLUDED IN THE SUMMARY OF BEST ITEMS AND QUANTITIES SHALL BE CONSIDERED INCIDENTAL, CONSTRUCTION ITEMS, AND THEIR COST SHALL BE INCLUDED IN THE COST OF THE BEST ITEMS PROVIDED.
10. ALL SIGNAL, CONTROL AND ELECTRICAL WORK SHALL BE IN STRICT ACCORDANCE WITH ALL N.E.C. AND CITY OF TULSA CODES AND SHALL BE PERFORMED BY AN ELECTRICAL CONTRACTOR LICENSED IN THE STATE OF OKLAHOMA.
11. CONTRACTOR SHALL PROVIDE AND INSTALL PHENOLIC TAGS FOR THE NEW EQUIPMENT NUMBERS AND DESCRIPTIONS AS SHOWN ON THE EQUIPMENT TAG SCHEDULE ON THE DRAWINGS AND REQUIRED BY THE SPECIFICATIONS. OTHER ITEMS WHICH ARE NOT SPECIFICALLY SHOWN ON THE TAG SCHEDULE BUT ARE PART OF THE WORK SHALL BE TAGGED AT NO ADDITIONAL COST TO THE OWNER. ALL TAG DATA SHALL BE APPROVED BY THE ENGINEER AND OWNER BEFORE THE TAGS ARE PREPARED.
12. PRIMARY CONTACT FOR NOTIFICATION, SCHEDULING AND COORDINATION OF PLANT IS COLIN WILMERING, NSWWT# 915-591-4578 (colinwilmering@tulsa.ok.gov).
13. SALVAGED ITEMS SHALL BE TURNED OVER TO THE CITY OF TULSA TO BE PLACED IN STORAGE.

SUMMARY OF CONTRACT QUANTITIES

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>DESCRIPTION</th>
<th>SPEC.</th>
<th>PAY ITEM NOTE</th>
<th>UNIT</th>
<th>EST. QUANTITY</th>
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<tr>
<td>1</td>
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<td>ALLOW</td>
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PAY ITEM NOTES
1. INCLUDES DEMOLITION OF ALL STRUCTURAL, MECHANICAL, AND ELECTRICAL ITEMS NECESSARY TO INSTALL AND INTEGRATE THE NFX000-C80 HIGH SPEED BLOWER INTO THE NORTHEAST WASTEWATER TREATMENTS AERATION SYSTEM AS SHOWN IN THE CONSTRUCTION DRAWINGS. SEE DEMOLITION SHEETS.

EQUIPMENT OBSOLETE BY THIS PROJECT
CHECK VALUE: N400-0120-002
VALVE: N400-0120-003
EQUIPMENT REPLACED BY THIS PROJECT
BLOWER: N400-0120-012
NEW EQUIPMENT
VP303: N400-0120-025
CHECK VALUE: N400-0120-0030
VALVES: N400-0120-0031

GENERAL NOTES
TMLA PROJECT NO. ES 2022-05
NORTHERN AERATION JACKET BLOWER ADDITION
CITY OF TULSA, OKLAHOMA
WATER AND SEWER DEPARTMENT
PLANS AND SPECIFICATIONS
TETRA TECH

ISSUED DATE: 08/23/2022
SHEET 1 OF 22
REVISION 0
NOTES:

1. DEMOLISH FLEXIBLE CONDUIT FROM FLOOR STUB UP TO BLOWER. REMOVE WIRE BACK TO THE MEDIUM VOLTAGE STARTER. PROTECT CONDUIT STUB UP FOR REUSE.
4.16KV MOTOR CONTROL CENTER MCCD1 FRONT ELEVATION

EX. STARTER IS CH AMPGARD, CAT # 941000555
ORDER # 4FLD13227-007

NOTES:
1. AFTER DEMOLITION, TURN OVER RUPS AND MPR
   TO OWNER.
2. WORK INTERNAL TO THE STARTER ENCLOSURE
   SHALL BE PERFORMED BY EATON PERSONNEL
   ONLY. EATON SHALL RE-UL CERTIFY THE MCC.
3. COORDINATE WITH OWNER FOR THE
   DE-ENERGIZING OF B BUS TO ALLOW FOR
   REPLACEMENT OF BLOWER #2 STARTER. PROVIDE
   48-HOURS NOTICE OF DESIRED SHUTDOWN. ONCE
   SHUTDOWN COMMENCES, WORK SHALL NOT
   CEASE UNTIL UPGRADE HAS BEEN COMPLETED.
1. TOC CONTACTS SHOWN WITH BREAKER IN TEST POSITION.
2. REFER TO EATON INSTRUCTION BOOK I.B. 32-251-1C FOR TYPICAL BREAKER OPERATION AND DEVICE LEGEND.
NOTES:
1. EXISTING TWO PRESSURE SIGNALS SHALL BE EXTENDED TO THE NEW LOCAL CONTROL PANEL. REFER TO PID FOR CLARIFICATION.
2. UPDATE PROGRAMMING IN BIMC TO REMOVE CONTROL AND MONITORING OF BLOWER #2. UPDATE PROGRAMMING OF HM SCREENS IN CONTROL ROOM TO MONITOR THE NEW BLOWER, ALLOW FOR MONITORING AND TRENDS OF 25 VARIABLES. UPDATE HM PROGRAMMING TO ALLOW FOR PRESSURE SIGNAL SELECTION AT NEW BLOWER LCP.
NOTES:

1. PROVIDE TWO 4-20 MA SIGNAL SPLITTER/TRANSMITTERS. OUTPUTS FROM EACH TRANSMITTER SHALL BE RECONNECTED TO BMCP PLC AND NEW CONNECTIONS TO PNC03. PROVIDE POWER WIRING UPDATES INSIDE BMCP TO POWER CURRENT TRANSMITTERS.