**ADDENDUM NO. 3**
**TO**
**CONTRACT DOCUMENTS**
**FOR**
**CITY OF GRAND ISLAND, NE**
**WASTEWATER TREATMENT PLANT FLOW IMPROVEMENTS**

**DATE OF ISSUE: March 10th, 2022**

**REVISED DATE OF BID OPENING: March 15th, 2022, 2:15 PM**

**TO: PROSPECTIVE BIDDERS AND OTHER INTERESTED PARTIES**

**Items Included and Attached with this Addendum:**

THE CONTRACT DOCUMENTS ARE HEREBY MODIFIED BY THE FOLLOWING ITEMS:

## CHANGES TO SPECIFICATIONS

AD-3 Item 1 Section 40 61 93A Process Control System Input/Output List

A. Append the following to the I/O list (cells transposed to fit on this sheet.)

| | |
|---|---|
| idx | 116 |
| Instrument | CP 0271 |
| Equipment | Aeration Basin Dewatering Pump Station |
| Description | Control Panel Current Draw |
| Extended Description | (CT at Power Panel 9) |
| P&ID | n/a |
| Destination | RTU 02 / LCP 01 |
| Wired / Comms | Wired |
| Protocol | n/a |
| Destination Location | Blower Building #3 |
| PLC | PLC-1 |
| Type | AI |
| PLC Lower Range Value | 0 |
| PLC Upper Range Value | TBD |
| Units | Amps |

## CHANGES TO DRAWINGS

AD-3 Item 2 DRAWING 04X102 SOUTH AERATION BASIN – REMOVAL PLAN

A. REPLACE sheet 04X102 with attached updated sheet 04X102

AD-3 Item 3 DRAWING 04E102 SOUTH AERATION BASIN – REMOVAL PLAN

A. REPLACE sheet 04E102 with attached updated sheet 04E102

AD-3 Item 4 DRAWING 04E103 SOUTH AERATION BASIN – REMOVAL PLAN

A. REPLACE sheet 04E103 with attached updated sheet 04E103

AD-3 Item 5 DRAWING 04E104 SOUTH AERATION BASIN – REMOVAL PLAN

A. REPLACE sheet 04E104 with attached updated sheet 04E104

AD-3 Item 6 DRAWING 04E105 SOUTH AERATION BASIN – REMOVAL PLAN

A. REPLACE sheet 04E105 with attached updated sheet 04E105

AD-3 Item 7 DRAWING 04E503 SOUTH AERATION BASIN – REMOVAL PLAN

A. REPLACE sheet 04E503 with attached updated sheet 04E503

AD-3 Item 8 DRAWING 04E601 SOUTH AERATION BASIN – REMOVAL PLAN

A. REPLACE sheet 04E601 with attached updated sheet 04E601

AD-3 Item 9 DRAWING 04E603 SOUTH AERATION BASIN – REMOVAL PLAN

A. REPLACE sheet 04E603 with attached updated sheet 04E603

AD-3 Item 10 DRAWING 04E607 SOUTH AERATION BASIN – REMOVAL PLAN

A. REPLACE sheet 04E607 with attached updated sheet 04E607

AD-3 Item 11 DRAWING 04E608 SOUTH AERATION BASIN – REMOVAL PLAN

A. REPLACE sheet 04E608 with attached updated sheet 04E608

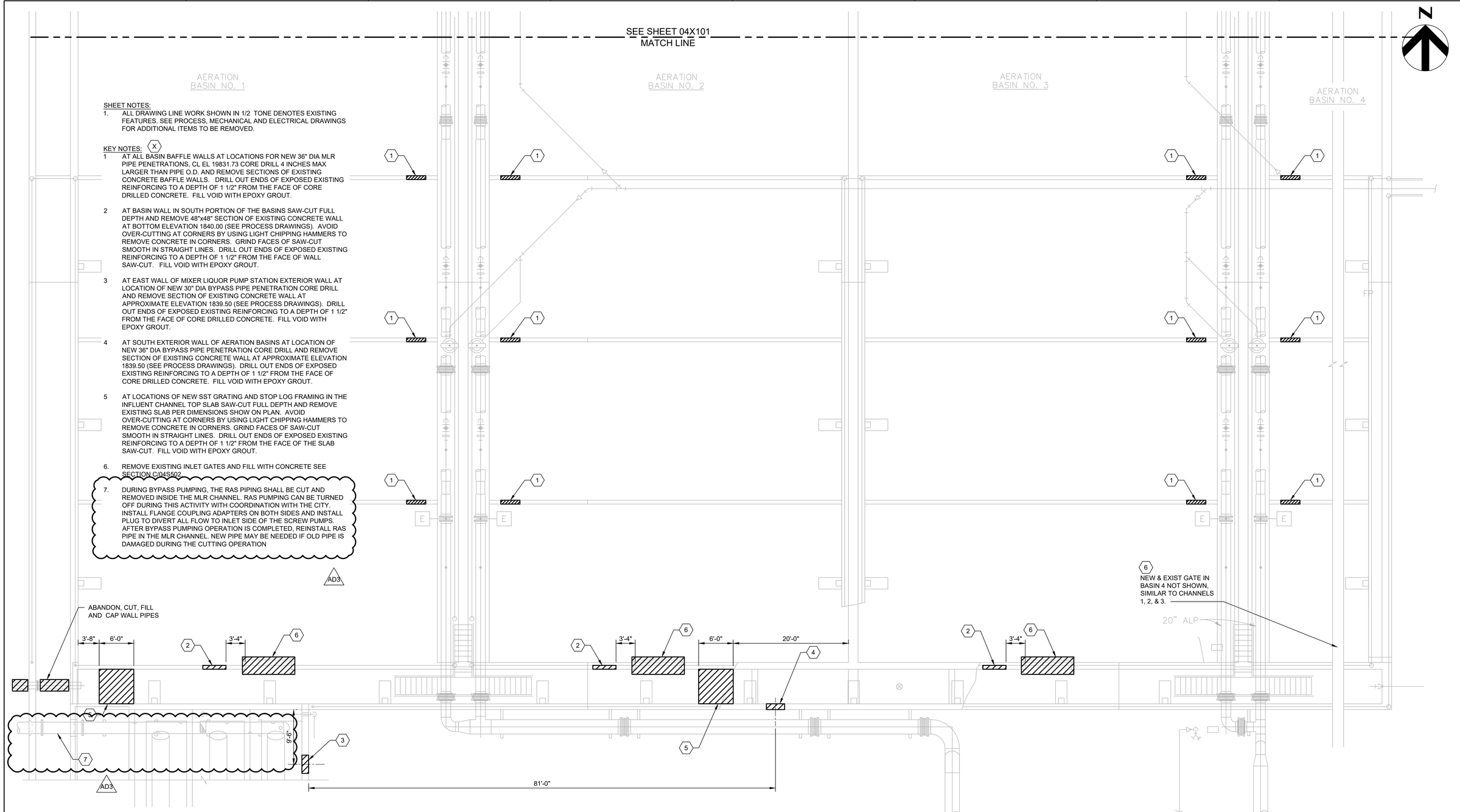
ALL ITEMS IN CONFLICT WITH THE ADDENDA ARE HEREBY DELETED.

THIS ADDENDUM IS MADE PART OF THE CONTRACT DOCUMENTS AND SHALL BE NOTED ON THE BID FORM

HDR ENGINEERING, INC.

Amit Shrivastava

Amit Shrivastava, P.E.




| ISSUE | DATE | DESCRIPTION |
|---|---|---|
| | 03/10/2022 | ADDENDUM 3 |
| | 01/11/2022 | ISSUED FOR BID |
| | 11/23/2021 | ISSUED FOR 100% REVIEW |
| | 10/18/2021 | ISSUED FOR 90% CLIENT REVIEW |
| | 6/30/2021 | ISSUED FOR 50% CLIENT REVIEW |

| | |
|---|---|
| PROJECT MANAGER | A. SHRIVASTAVA |
| PROCESS | D. DEVITT |
| STRUCTURAL | A. GINZBURG |
| ELECTRICAL | J. ANDERSEN |
| CIVIL | B. HINDLEY |
| INSTRUMENTATION | E. SANDERS |
| | |
| | |
| PROJECT NUMBER | 10273453 |

PROFESSIONAL CIVIL ENGINEER
AMIT SHRIVASTAVA
E-11398
STATE OF NEBRASKA
1/11/22

CITY OF GRAND ISLAND

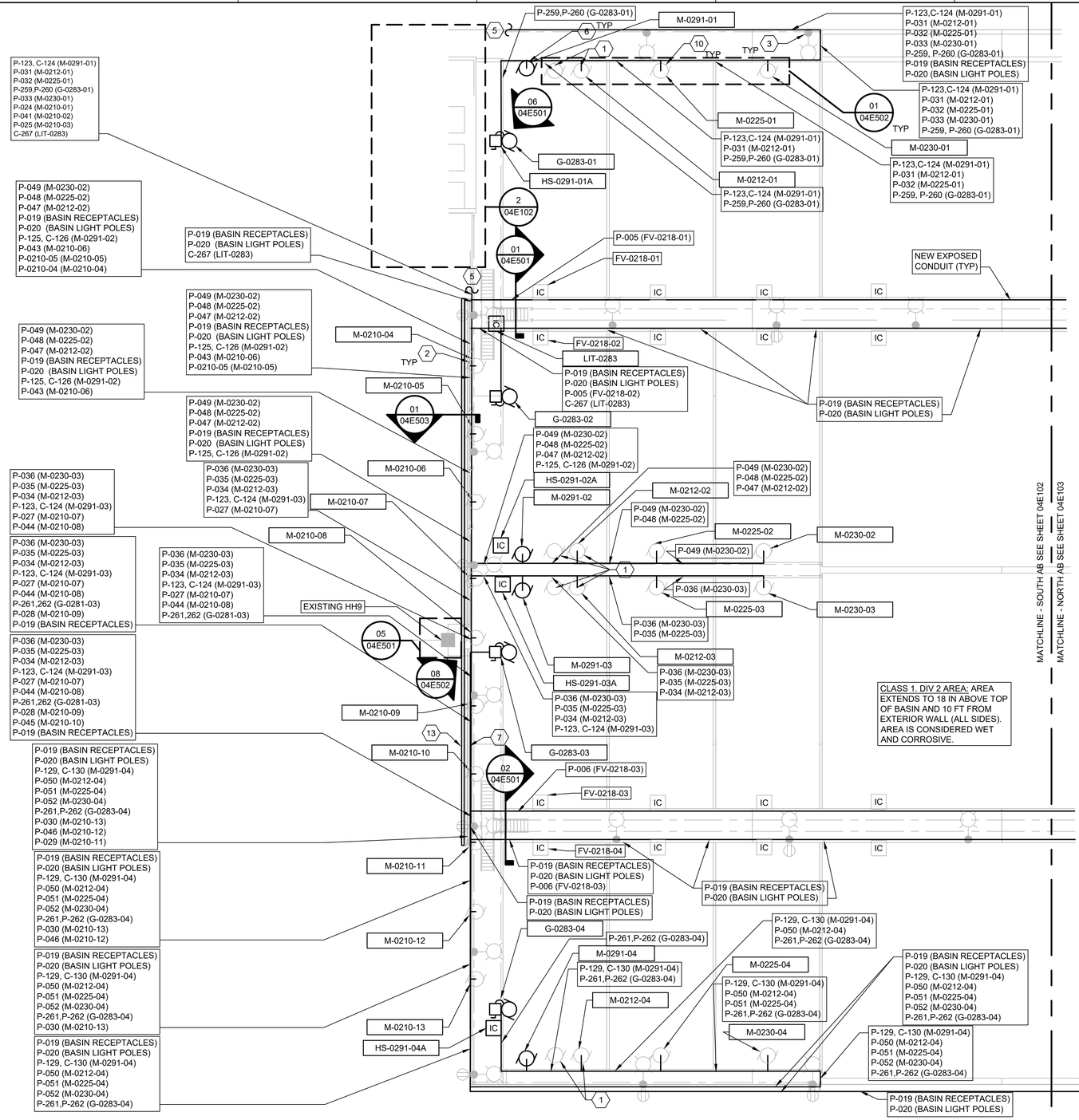
**CITY OF GRAND ISLAND**
**WASTEWATER TREATMENT PLANT**
**FLOW IMPROVEMENTS**

# SOUTH AERATION BASIN - REMOVAL PLAN

0 1" 2"

FILENAME 04X102.dwg
SCALE 1/8" = 1'-0"

SHEET 04X102




GENERAL NOTES

1 PROVIDE EXPANSION JOINTS IN CONDUITS WHEN THEY ARE ROUTED OVER CONCRETE EXPANSION JOINTS. SEE SHEETS 04D101 AND 04D102 FOR EXPANSION JOINT LOCATIONS.

2 MAINTAIN CONNECTIONS TO ALL EQUIPMENT.

3 REMOVE CONDUCTORS FROM CONDUITS IN SLAB AND REPLACE WITH CONDUCTORS ROUTED THROUGH EXPOSED CONDUIT MOUNTED ABOVE SLAB.

4 AFTER CONDUCTOR REMOVAL, FILL ABANDONED ELECTRICAL BOXES IN THE FLOOR SLAB WITH CONCRETE TO BE EVEN WITH THE SURROUNDING SLAB.

5 CUT BACK TO CONCRETE SLAB ANY CONDUIT TO BE ABANDONED THAT FEEDS ELECTRICAL DEVICES. PLUG AND FILL END WITH CONCRETE SO END RESULT IS EVEN WITH SURROUNDING SLAB.

6 REFER TO ONE-LINE DIAGRAM SHEETS 04E601 OR CONDUIT ROUTING.

KEYNOTES (#)

1 RELOCATED SUBMERSIBLE MIXER AND DISCONNECT. PROVIDE CONDUCTORS AND CONDUIT TO EXTEND TO NEW LOCATION.

2 REUSE SUPPORT FOR CONDUIT SUPPLYING MOTOR. TYPICAL OF ALL M-0210-XX

3 DISCONNECT LIGHTING FIXTURE AND RECEPTACLE (IF APPLICABLE), RECONNECT TO NEW CIRCUIT. PROVIDE JUNCTION BOX, SIZE AS REQUIRED.

4 RE-ROUTE CONDUIT AND CONDUCTORS TO BE ON EAST SIDE OF WALKWAY. RECONNECT ELECTRICAL DEVICES SERVED BY CONDUIT.

5 CONTINUATION ON INFLUENT PUMP STRUCTURE PLAN ON SHEET 04E104.

6 SEE ONE-LINE DIAGRAM SHEETS 04E601

7 EXISTING WIREWAY. CONTRACTOR TO VERIFY EXACT LOCATION.

8 NOT USED.

9 SEE ONE-LINE DIAGRAM SHEET 04E601.

10 REPLACE EXISTING FIBERGLASS JUNCTION BOX, ON/OFF SWITCH, AND ASSOCIATED CONDUIT WITH A STAINLESS STEEL 12"X8"X8" JUNCTION BOX WITH 1/4 TURN KNOB AND TERMINAL STRIP FOR MOTOR CONNECTION. PLACE ON/OFF SELECTOR SWITCH WITH LABEL ON HINGED BOX LID. ADD EQUIPMENT IDENTIFICATION TAG ACCORDING TO MOTOR IT SERVES. EXAMPLE: "M-0291-XX" WHERE XX REPRESENTS THE MOTOR NUMERICAL IDENTIFICATION. THIS NOTE APPLIES TO ALL EXISTING MIXERS. EVEN THOSE WHERE NO OTHER WIRING CHANGES ARE BEING MADE.

11 REMOVE WIRING. CUT BACK CONDUIT AND PLUG OPENING. TYPICAL FOR ALL FV-0218-0X.

12 NOT USED.

13 NEW WIREWAY. SEE DETAIL 01 ON SHEET 04E503.

| ISSUE | DATE | DESCRIPTION |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |
| | 03/10/2022 | ADDENDUM #3 |
| | 01/11/2022 | ISSUED FOR BID |

| | |
|---|---|
| **PROJECT MANAGER** | A. SHRIVASTAVA |
| PROCESS | D. DEVITT |
| STRUCTURAL | A. GINZBURG |
| ELECTRICAL | J. ANDERSEN |
| CIVIL | B. HINDLEY |
| INSTRUMENTATION | E. SANDERS |
| | |
| **PROJECT NUMBER** | 10273453 |

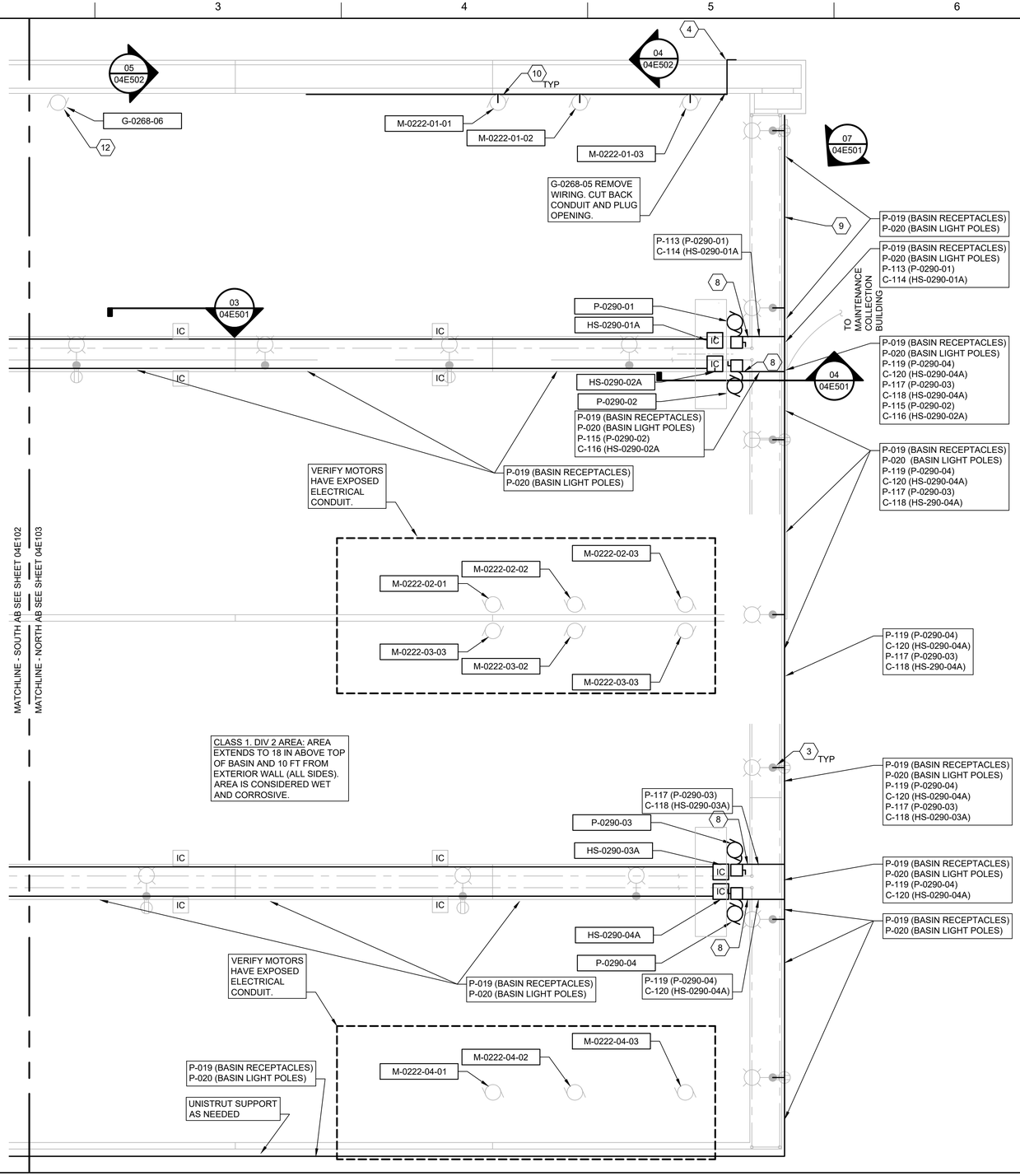
CITY OF GRAND ISLAND

**CITY OF GRAND ISLAND**
**WASTEWATER TREATMENT PLANT**
**FLOW IMPROVEMENTS**

# AERATION BASIN ELECTRICAL PLAN SOUTH PORTION

0 1" 2"

| | |
|---|---|
| **FILENAME** | 04E102.DWG |
| **SCALE** | 1/16"=1'-0" |
| **SHEET** | **04E102** |




N

GENERAL NOTES

1 PROVIDE EXPANSION JOINTS IN CONDUITS WHEN THEY ARE ROUTED OVER CONCRETE EXPANSION JOINTS. SEE SHEETS 04D101 AND 04D102 FOR EXPANSION JOINT LOCATIONS.

2 MAINTAIN CONNECTIONS TO ALL EQUIPMENT.

3 REMOVE CONDUCTORS FROM CONDUITS IN SLAB AND REPLACE WITH CONDUCTORS ROUTED THROUGH EXPOSED CONDUIT MOUNTED ABOVE SLAB.

4 AFTER CONDUCTOR REMOVAL, FILL ABANDONED ELECTRICAL BOXES IN THE FLOOR SLAB WITH CONCRETE TO BE EVEN WITH THE SURROUNDING SLAB.

5 CUT BACK TO CONCRETE SLAB ANY CONDUIT TO BE ABANDONED THAT FEEDS ELECTRICAL DEVICES. PLUG AND FILL END WITH CONCRETE SO END RESULT IS EVEN WITH SURROUNDING SLAB.

6 REFER TO ONE-LINE DIAGRAM SHEETS 04E601 OR CONDUIT ROUTING.

KEYNOTES (#)

1 NOT USED.
2 NOT USED.

3 DISCONNECT LIGHTING FIXTURE AND RECEPTACLE (IF APPLICABLE), RECONNECT TO NEW CIRCUIT. PROVIDE JUNCTION BOX, SIZE AS REQUIRED.

4 RE-ROUTE CONDUIT AND CONDUCTORS TO BE ON EAST SIDE OF WALKWAY. RECONNECT ELECTRICAL DEVICES SERVED BY CONDUIT.

5 NOT USED.

6 SEE ONE-LINE DIAGRAM SHEET 04E601

7 NOT USED.

8 ROUTE CONDUIT UNDERNEATH WALKWAY.

9 SEE ONE-LINE DIAGRAM SHEETS 04E601.

10 REPLACE EXISTING FIBERGLASS JUNCTION BOX, ON/OFF SWITCH, AND ASSOCIATED CONDUIT WITH A STAINLESS STEEL 12"X8"X8" JUNCTION BOX WITH 1/4 TURN KNOB AND TERMINAL STRIP FOR MOTOR CONNECTION. PLACE ON/OFF SELECTOR SWITCH WITH LABEL ON HINGED BOX LID. ADD EQUIPMENT IDENTIFICATION TAG ACCORDING TO MOTOR IT SERVES. EXAMPLE: "M-0291-XX" WHERE XX REPRESENTS THE MOTOR NUMERICAL IDENTIFICATION. THIS NOTE APPLIES TO ALL EXISTING MIXERS. EVEN THOSE WHERE NO OTHER WIRING CHANGES ARE BEING MADE.

11 NOTUSED.

12 DISCONNECT CONDUCTORS TO MOTOR AND CONTROLS. SEE SHEET 0X501.

| ISSUE | DATE | DESCRIPTION |
|---|---|---|
| | 03/10/2022 | ADDENDUM #3 |
| | 01/11/2022 | ISSUED FOR BID |

| | |
|---|---|
| PROJECT MANAGER | A. SHRIVASTAVA |
| PROCESS | D. DEVITT |
| STRUCTURAL | A. GINZBURG |
| ELECTRICAL | J. ANDERSEN |
| CIVIL | B. HINDLEY |
| INSTRUMENTATION | E. SANDERS |
| | |
| PROJECT NUMBER | 10273453 |

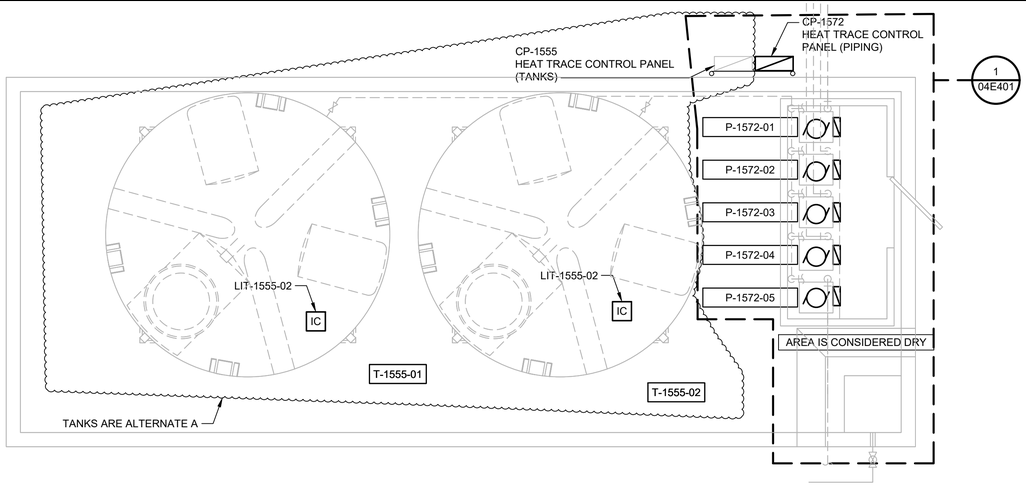
CITY OF GRAND ISLAND
WASTEWATER TREATMENT PLANT
FLOW IMPROVEMENTS

# AERATION BASIN ELECTRICAL PLAN NORTH PORTION

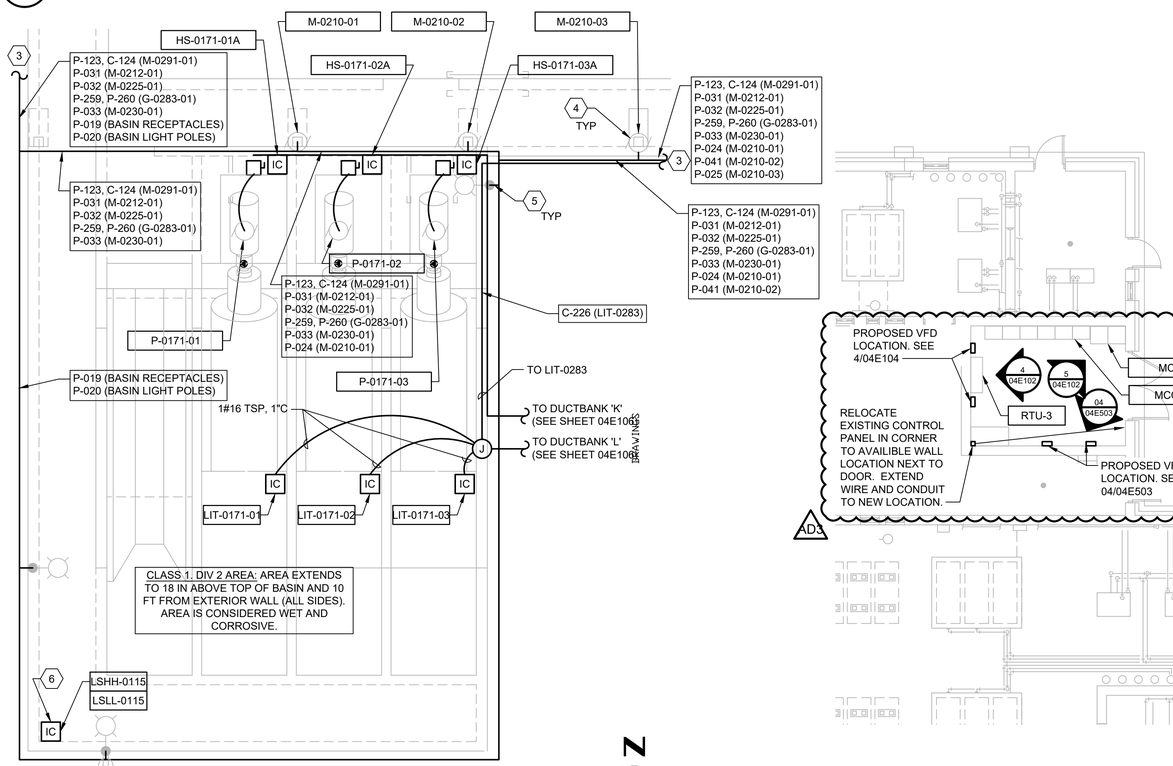
0 1" 2"

FILENAME 04E103.DWG
SCALE 1/16"=1'-0"

SHEET 04E103




1 - MICRO-C STRUCTURE ELECTRICAL PLAN
3/8"-1'-0"




2 - INFLUENT PUMP STRUCTURE
3/8"-1'-0"




3 - MAINTENANCE COLLECTION BUILDING
3/8"-1'-0"


4 - MAINTENANCE COLLECTION BUILDING VFD MOUNTING LOCATIONS
NOT TO SCALE

KEYNOTES (#)

1. INSTALL NEW 15HP VFD ON MAINTENANCE COLLECTION BUILDING WALL LOCATION SHOWN.
2. INSTALL FOUR NEW 40A 3P CIRCUIT BREAKERS IN EXISTING MCC 11A.
3. SEE AERATION BASIN ELECTRICAL PLAN FOR CONTINUATION. REMOVE CONDUCTORS FROM CONDUITS IN SLAB AND REPLACE WITH CONDUCTORS ROUTED THROUGH EXPOSED CONDUIT MOUNTED ABOVE SLAB.
4. REUSE SUPPORT FOR CONDUIT SUPPLYING MOTOR. SEE PHOTO 06 ON SHEET 04E501.
5. DISCONNECT LIGHTING FIXTURE AND RECEPTACLE (IF APPLICABLE), RECONNECT TO NEW CIRCUIT. PROVIDE JUNCTION BOX, SIZE AS REQUIRED. SEE DETAIL 03 ON SHEET 04E502.
6. TO REPLACE EXISTING INSTRUMENTATION. EXACT LOCATION TO BE DETERMINED.


5 - EXISTING MOTOR CONTROL CENTER NO. 11A
NOT TO SCALE

| ISSUE | DATE | DESCRIPTION |
|---|---|---|
| | | |
| | | |
| | 03/10/2022 | ADDENDUM #3 |
| | 01/11/2022 | ISSUED FOR BID |
| | 11/23/2021 | ISSUED FOR 100% REVIEW |
| | 10/18/2021 | ISSUED FOR 90% CLIENT REVIEW |
| | 6/25/2021 | ISSUED FOR 50% CLIENT REVIEW |

| | |
|---|---|
| PROJECT MANAGER | A. SHRIVASTAVA |
| PROCESS | D. DEVITT |
| STRUCTURAL | A. GINZBURG |
| ELECTRICAL | J. ANDERSEN |
| CIVIL | B. HINDLEY |
| INSTRUMENTATION | E. SANDERS |
| | |
| | |
| PROJECT NUMBER | 10273453 |

CITY OF GRAND ISLAND

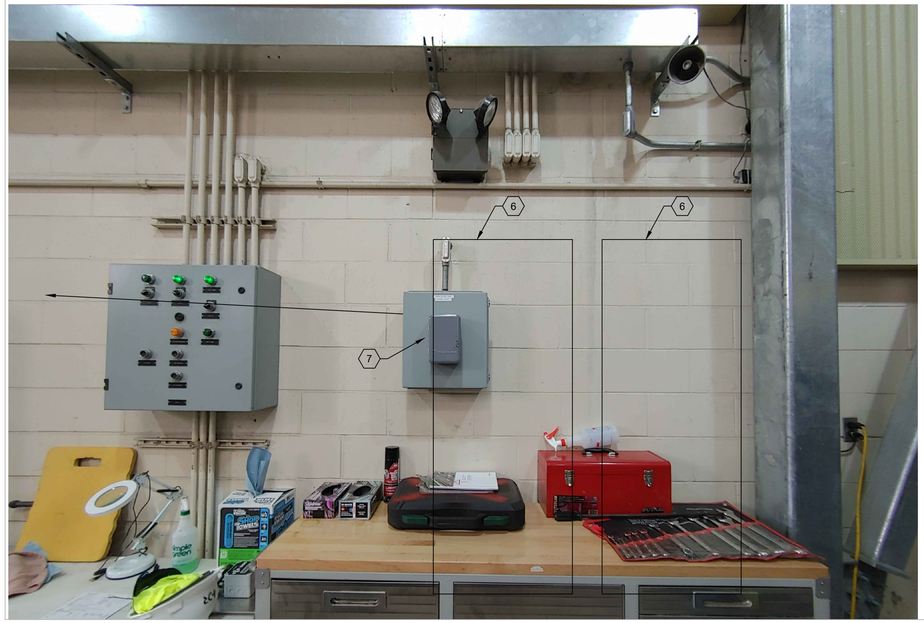
CITY OF GRAND ISLAND
WASTEWATER TREATMENT PLANT
FLOW IMPROVEMENTS

# AERATION BASIN STRUCTURES ELECTRICAL PLAN

0 1" 2"

FILENAME 04E104.DWG
SCALE AS NOTED

SHEET 04E104




AD3

1 - BLOWER BUILDING VFD MOUNTING LOCATIONS
NOT TO SCALE


2 - EXISTING MOTOR CONTROL CENTERS NO. 7 AND 8
NOT TO SCALE

GENERAL NOTES

1 SEE ONE-LINE DIAGRAM 04E601 FOR LOADS CONNECTED TO NEW STARTERS AND BREAKERS

KEYNOTES (#)

1 INSTALL NEW SIZE 1 MOTOR STARTER IN EXISTING MCC7.

2 INSTALL NEW SIZE 1 MOTOR STARTER IN EXISTING MCC8.

3 INSTALL NEW 25A 3P CIRCUIT BREAKER IN MCC8.

4 FOR ALTERNATE B, INSTALL NEW 200A, 3P CIRCUIT BREAKER IN MCC9. INSTALL NEW BLANK DOORS TO COVER ANY REMAINING OPEN SECTION SPACE.

5 FOR ALTERNATE B, INSTALL NEW 200A, 3P CIRCUIT BREAKER IN MCC10. INSTALL NEW BLANK DOORS TO COVER ANY REMAINING OPEN SECTION SPACE.

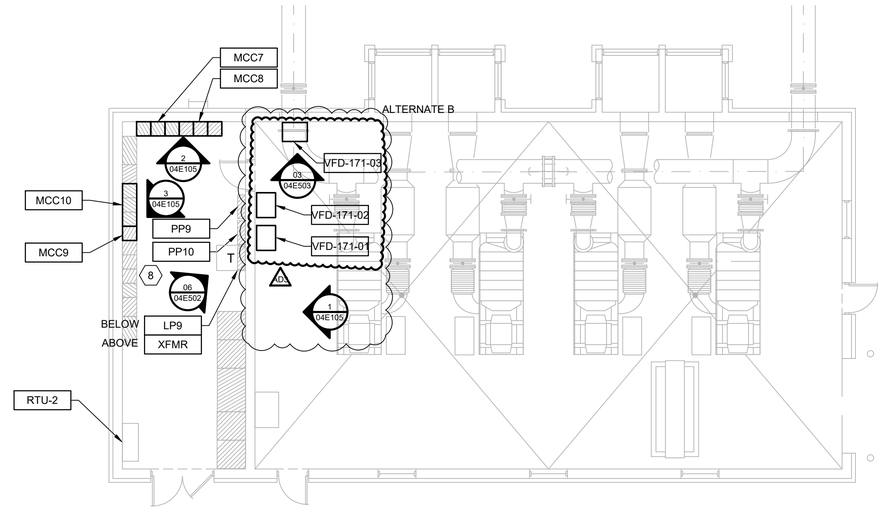
6 INSTALL NEW 125 HP VFD ON AT APPROXIMATE LOCATION SHOWN ON A 4" CONCRETE HOUSE KEEPING PAD. SEE DETAIL 1/00E501.

7 RELOCATE TIME SWITCH AND ENCLOSURE TO AVAILABLE WALL SPACE ON OTHER SIDE OF EXISTING CONTROL PANEL TO ALLOW SPACE FOR NEW VFDS.

AD3

8 PROVIDE CONDUIT AND JUNCTION BOX TO SPLIT CONDUCTORS GOING TO SCREW PUMPS. SEE 02 ON SHEET 04E104 FOR SCREW PUMP LOCATION. ROUTE CONDUCTORS TO ASSOCIATED MCC AND ASSOCIATED VFD FOR EACH SCREW PUMP.


3 - EXISTING MOTOR CONTROL CENTERS NO. 9 AND 10
NOT TO SCALE




4 - BLOWER BUILDING ELECTRICAL PLAN
3/8"-1'-0"

N

| ISSUE | DATE | DESCRIPTION |
|---|---|---|
| | 03/10/2022 | ADDENDUM #3 |
| | 01/11/2022 | ISSUED FOR BID |
| | 11/23/2021 | ISSUED FOR 100% REVIEW |
| | 10/18/2021 | ISSUED FOR 90% CLIENT REVIEW |
| | 6/25/2021 | ISSUED FOR 50% CLIENT REVIEW |

| | |
|---|---|
| **PROJECT MANAGER** | A. SHRIVASTAVA |
| PROCESS | D. DEVITT |
| STRUCTURAL | A. GINZBURG |
| ELECTRICAL | J. ANDERSEN |
| CIVIL | B. HINDLEY |
| INSTRUMENTATION | E. SANDERS |
| | |
| **PROJECT NUMBER** | 10273453 |

CITY OF GRAND ISLAND

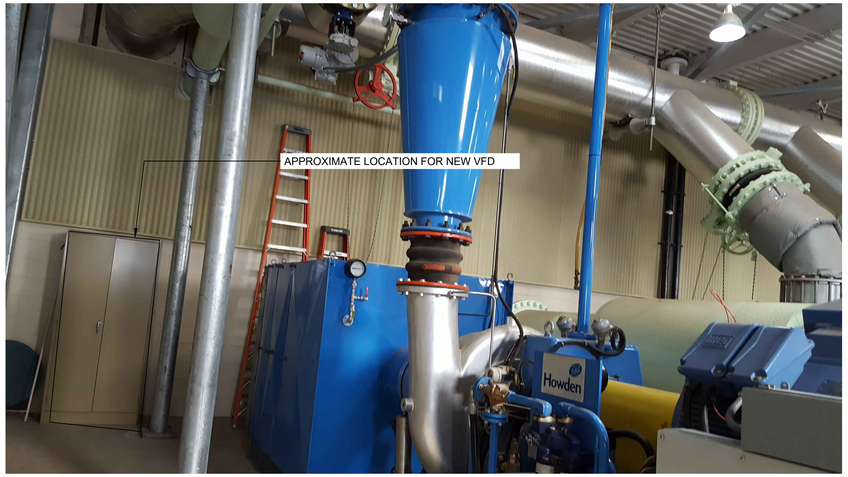
**CITY OF GRAND ISLAND**
**WASTEWATER TREATMENT PLANT**
**FLOW IMPROVEMENTS**

**AERATION BASIN**
**BLOWER BUILDING**
**ELECTRICAL PLAN**

0 1" 2"

**FILENAME** 04E105.DWG
**SCALE** AS NOTED

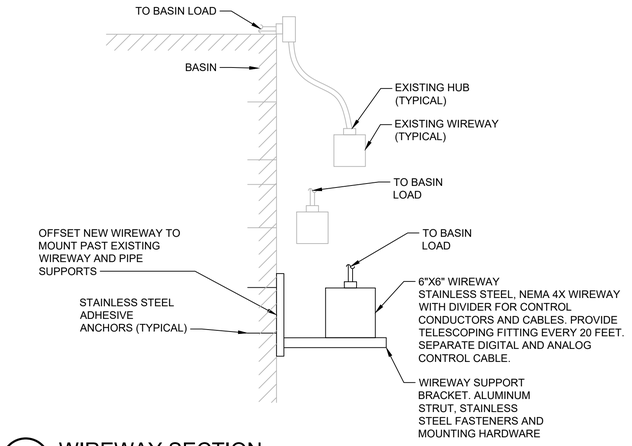
**SHEET**
**04E105**



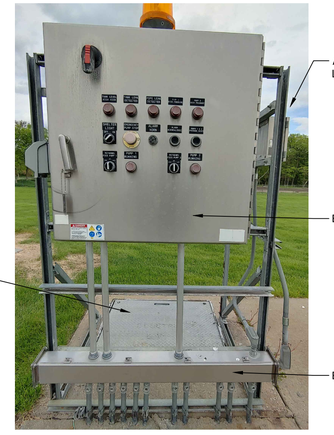

03 - BLOWER ROOM PHOTO
NOT TO SCALE

ADD 1


04 - MAINTENANCE COLLECTION BUILDING PHOTO
NOT TO SCALE




01 - WIREWAY SECTION
NOT TO SCALE




02 - MICRO-C STRUCTURE RTU-10
NOT TO SCALE

| ISSUE | DATE | DESCRIPTION |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |
| | 03/10/2022 | ADDENDUM #3 |
| | 01/11/2022 | ISSUED FOR BID |
| | 11/23/2021 | ISSUED FOR 100% REVIEW |

| | |
|---|---|
| **PROJECT MANAGER** | A. SHRIVASTAVA |
| PROCESS | D. DEVITT |
| STRUCTURAL | A. GINZBURG |
| ELECTRICAL | J. ANDERSEN |
| CIVIL | B. HINDLEY |
| INSTRUMENTATION | E. SANDERS |
| | |
| | |
| **PROJECT NUMBER** | 10273453 |

CITY OF GRAND ISLAND

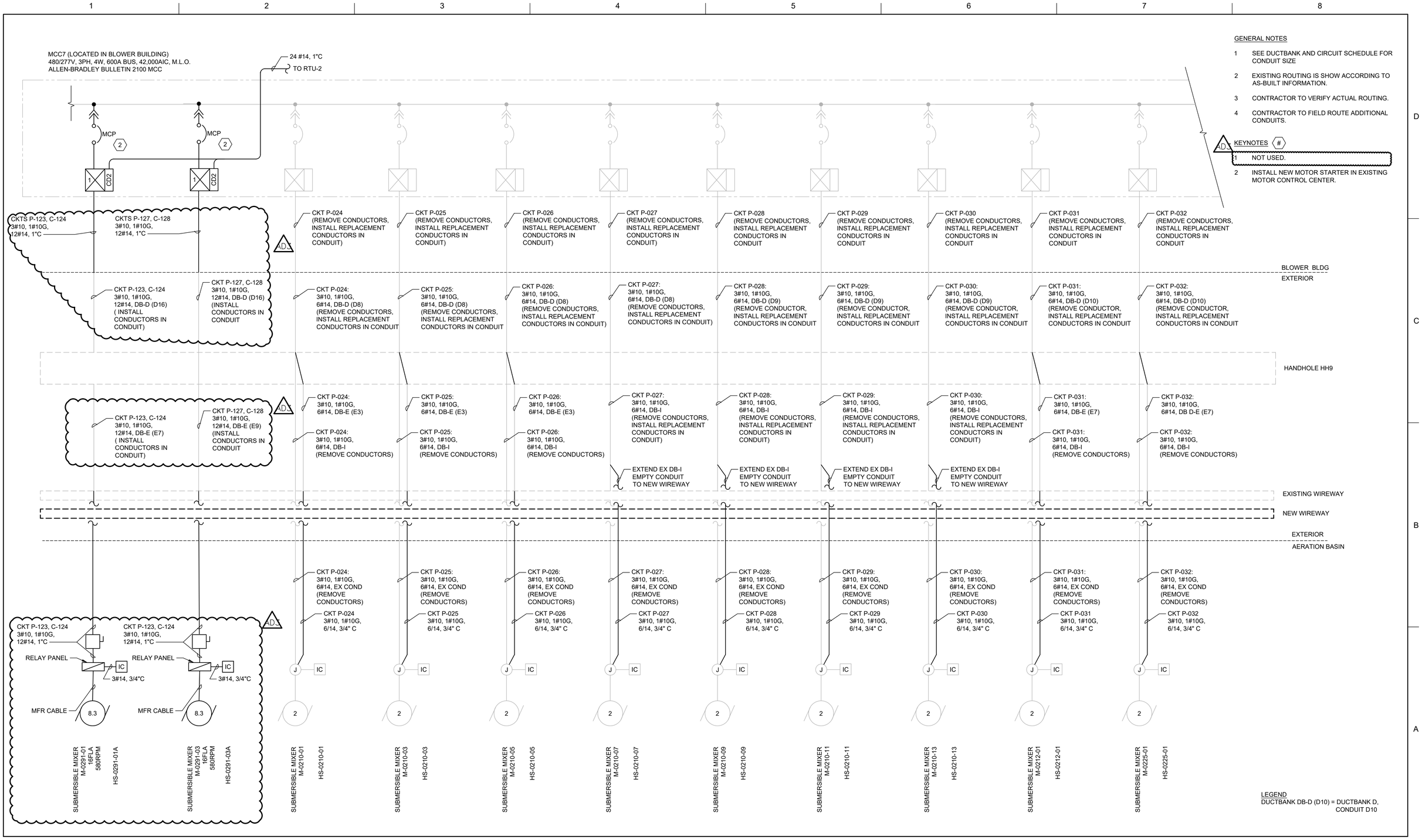
**CITY OF GRAND ISLAND**
**WASTEWATER TREATMENT PLANT**
**FLOW IMPROVEMENTS**

# ELECTRICAL DETAILS

0 1" 2"

**FILENAME** 04E503.DWG
**SCALE** AS NOTED

**SHEET**
**04E503**




| ISSUE | DATE | DESCRIPTION |
|---|---|---|
| | 03/10/2022 | ADDENDUM #3 |
| | 01/11/2022 | ISSUED FOR BID |

| | |
|---|---|
| PROJECT MANAGER | A. SHRIVASTAVA |
| PROCESS | D. DEVITT |
| STRUCTURAL | A. GINZBURG |
| ELECTRICAL | J. ANDERSEN |
| CIVIL | B. HINDLEY |
| INSTRUMENTATION | E. SANDERS |
| | |
| PROJECT NUMBER | 10273453 |

PROFESSIONAL ELECTRICAL ENGINEER
JAMES J. ANDERSEN
E-8957
STATE OF NEBRASKA
1-11-22

CITY OF GRAND ISLAND

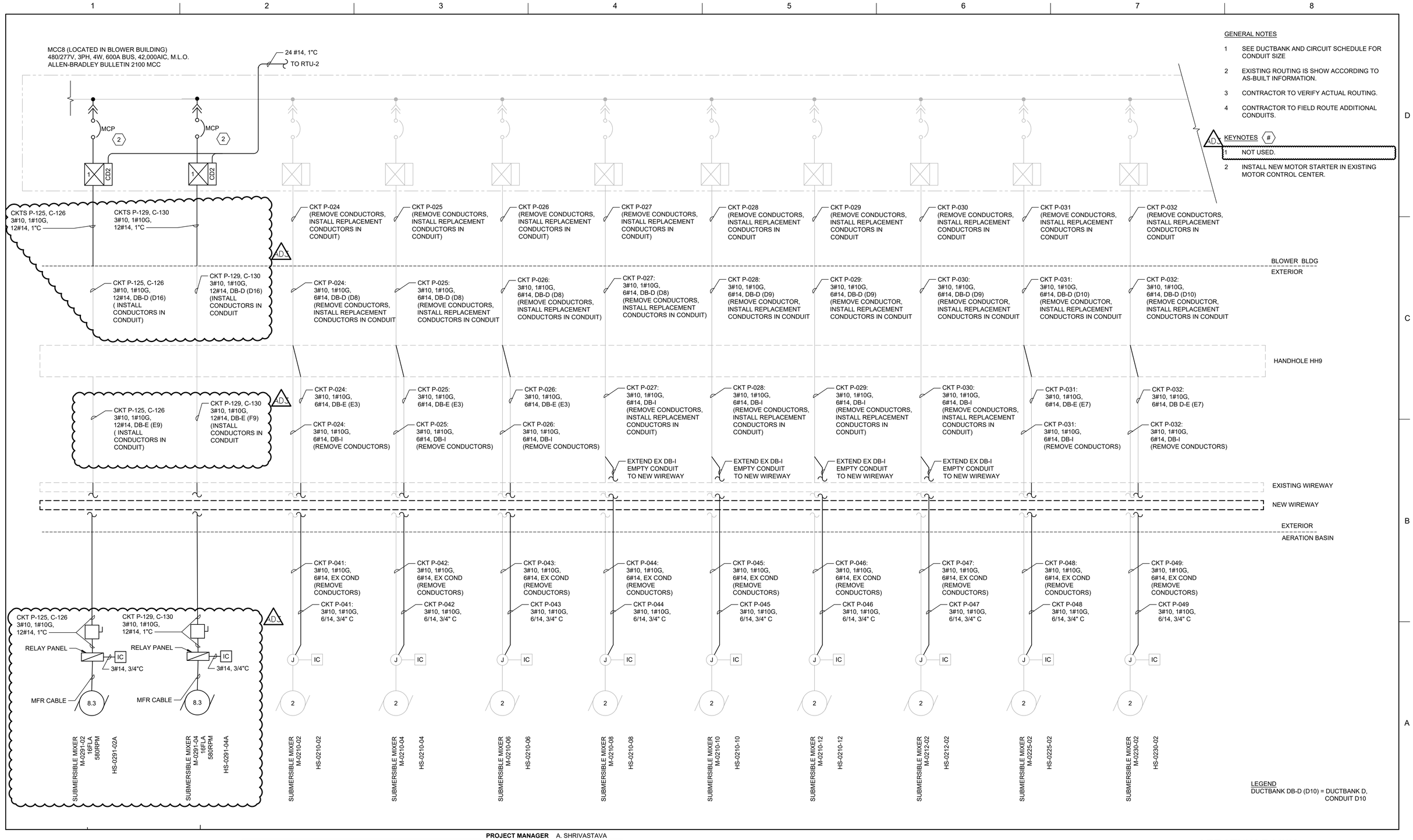
**CITY OF GRAND ISLAND**
**WASTEWATER TREATMENT PLANT**
**FLOW IMPROVEMENTS**

# AERATION BASIN ONE-LINE DIAGRAM

0 1" 2"

FILENAME 04E601.DWG
SCALE NONE

SHEET
**04E601**




| ISSUE | DATE | DESCRIPTION |
|---|---|---|
| | 03/10/2022 | ADDENDUM #3 |
| | 01/11/2022 | ISSUED FOR BID |

| | |
|---|---|
| **PROJECT MANAGER** | A. SHRIVASTAVA |
| PROCESS | D. DEVITT |
| STRUCTURAL | A. GINZBURG |
| ELECTRICAL | J. ANDERSEN |
| CIVIL | B. HINDLEY |
| INSTRUMENTATION | E. SANDERS |
| **PROJECT NUMBER** | 10273453 |

PROFESSIONAL ELECTRICAL ENGINEER
JAMES J. ANDERSEN
E-8857
STATE OF NEBRASKA
1-11-22

CITY OF GRAND ISLAND

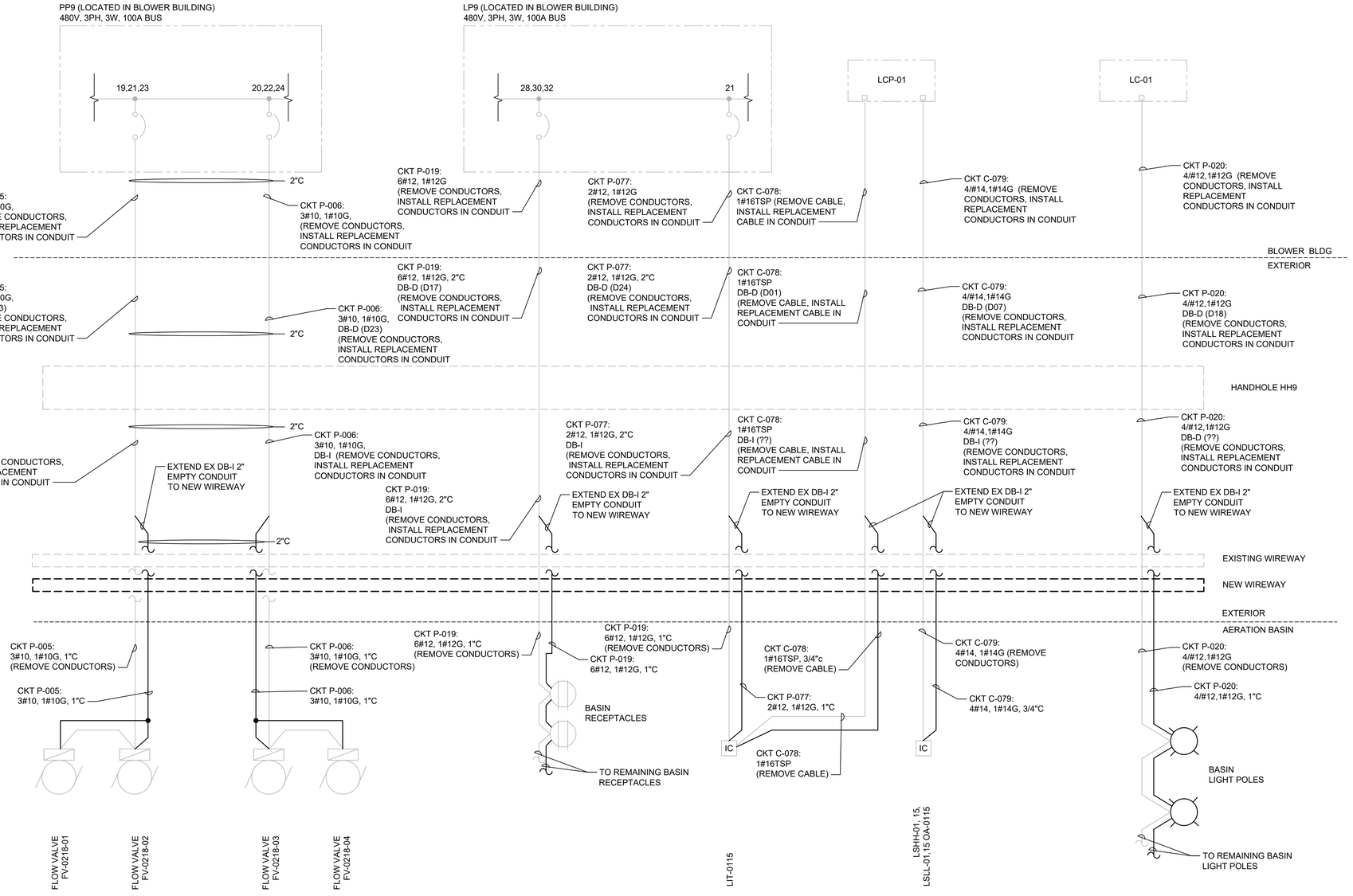
**CITY OF GRAND ISLAND**
**WASTEWATER TREATMENT PLANT**
**FLOW IMPROVEMENTS**

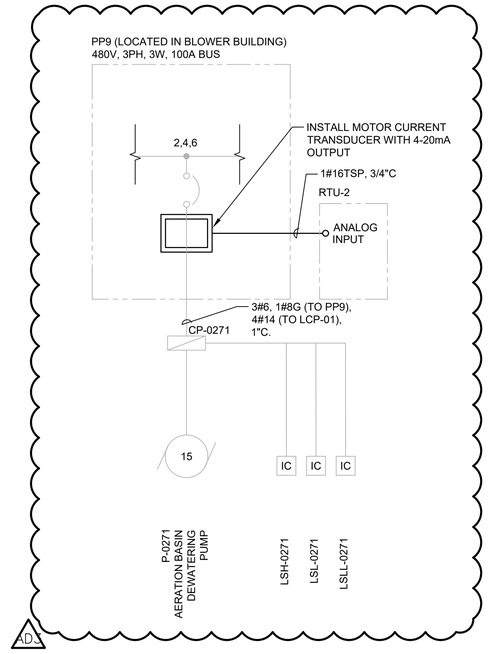
# AERATION BASIN ONE-LINE DIAGRAM

0 1" 2"

**FILENAME** 04E603.DWG
**SCALE** NONE

**SHEET** 04E603




GENERAL NOTES

1. SEE DUCTBANK AND CIRCUIT SCHEDULE FOR CONDUIT SIZE
2. EXISTING ROUTING IS SHOW ACCORDING TO AS-BUILT INFORMATION.
3. CONTRACTOR TO VERIFY ACTUAL ROUTING.
4. CONTRACTOR TO FIELD ROUTE ADDITIONAL CONDUITS.

LEGEND
DUCTBANK DB-D (D10) = DUCTBANK D, CONDUIT D10

| ISSUE | DATE | DESCRIPTION |
|---|---|---|
| | 03/10/2022 | ADDENDUM #3 |
| | 01/11/2022 | ISSUED FOR BID |

| | |
|---|---|
| PROJECT MANAGER | A. SHRIVASTAVA |
| PROCESS | D. DEVITT |
| STRUCTURAL | A. GINZBURG |
| ELECTRICAL | J. ANDERSEN |
| CIVIL | B. HINDLEY |
| INSTRUMENTATION | E. SANDERS |
| | |
| PROJECT NUMBER | 10273453 |

PROFESSIONAL ELECTRICAL ENGINEER
JAMES J. ANDERSEN
E-8957
STATE OF NEBRASKA
1-11-22

CITY OF GRAND ISLAND

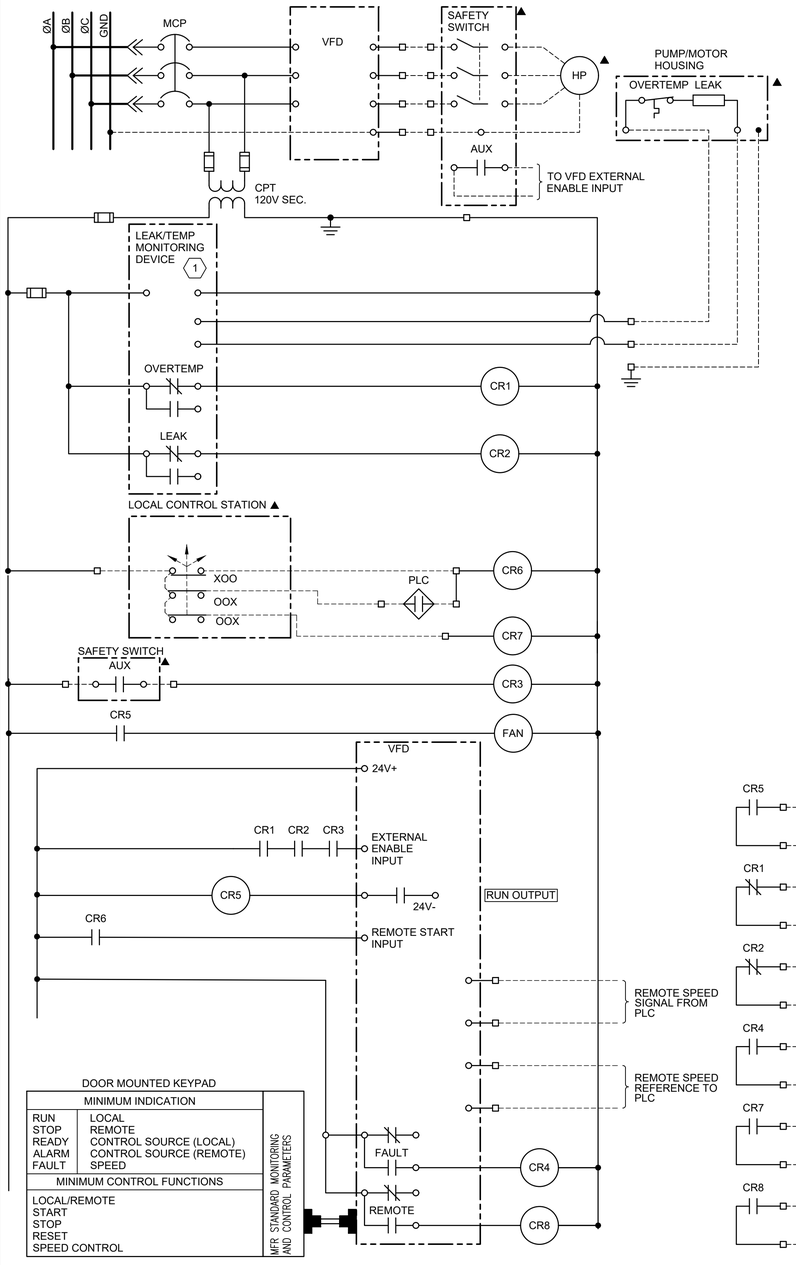
**CITY OF GRAND ISLAND**
**WASTEWATER TREATMENT PLANT**
**FLOW IMPROVEMENTS**

# AERATION BASIN ONE-LINE DIAGRAM

0 1" 2"

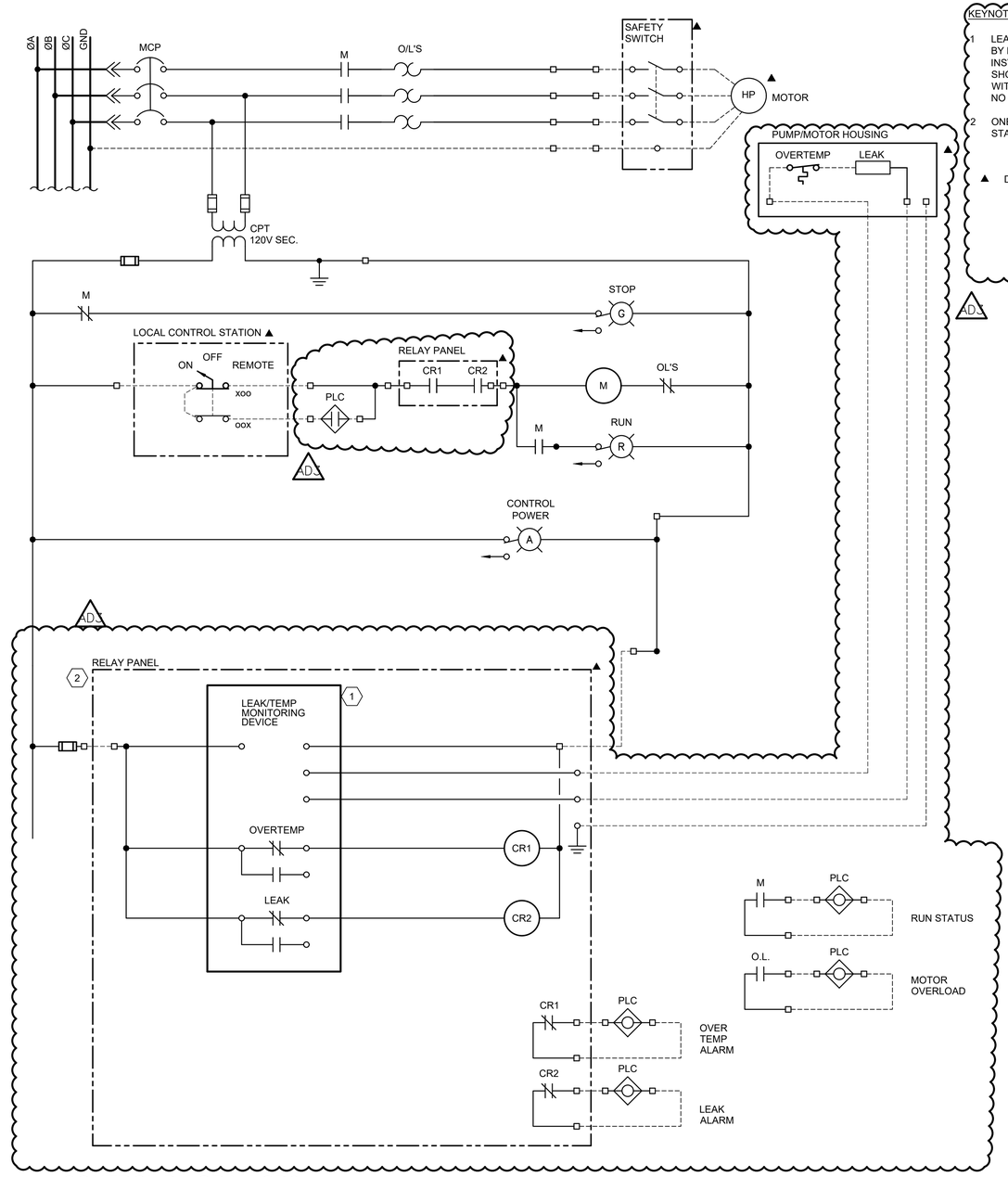
FILENAME 04E607.DWG
SCALE NONE

SHEET
**04E607**




## CONTROL DIAGRAM CD1

MIXED LIQUOR PUMPS:
P-0290-01
P-0290-02
P-0290-03
P-0290-04




## CONTROL DIAGRAM CD2

MIXERS:
M-0291-01
M-0291-02
M-0291-03
M-0291-04

KEYNOTES: (#)

1. LEAK/OVERTEMP MONITOR FURNISHED BY PUMP MANUFACTURER AND INSTALLED IN VFD OR RELAY PANEL AS SHOWN. OUTPUT CONTACTS ARE SHOWN WITH CONTROL POWER SUPPLIED AND NO ALARM CONDITION PRESENT.
2. ONE RELAY PANEL PER VFD / MOTOR STARTER

▲ DENOTES FIELD DEVICE.

| ISSUE | DATE | DESCRIPTION |
|---|---|---|
| | | |
| | | |
| | 03/10/2022 | ADDENDUM #3 |
| | 01/11/2022 | ISSUED FOR BID |
| | 11/23/2021 | ISSUED FOR 100% REVIEW |
| | 10/18/2021 | ISSUED FOR 90% CLIENT REVIEW |
| | 6/30/2021 | ISSUED FOR 50% CLIENT REVIEW |

| | |
|---|---|
| PROJECT MANAGER | A. SHRIVASTAVA |
| PROCESS | D. DEVITT |
| STRUCTURAL | A. GINZBURG |
| ELECTRICAL | J. ANDERSEN |
| CIVIL | B. HINDLEY |
| INSTRUMENTATION | E. SANDERS |
| | |
| PROJECT NUMBER | 10273453 |

PROFESSIONAL ELECTRICAL ENGINEER
JAMES J. ANDERSEN
E-9897
STATE OF NEBRASKA
1-11-22

CITY OF GRAND ISLAND
WASTEWATER TREATMENT PLANT
FLOW IMPROVEMENTS

# AERATION BASIN CONTROL DIAGRAMS

0 1" 2"

FILENAME 04E608.DWG
SCALE NONE

SHEET 04E608