

UTAH DIVISION OF WILDLIFE RESOURCES  
NEW LOA FISH HATCHERY  
DFCM PROJ. NO.: 24204520



**DEFERRED SUBMITTALS:**

- SHOP DRAWINGS OR REPORTS FOR THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD PRIOR TO FABRICATION OR CONSTRUCTION (AS APPLICABLE) U.N.O. SEE SECTION O. ON SHEET ST2.
  - CONCRETE CYLINDER TESTS
  - MASONRY & GROUT SPECIFICATIONS
  - REINFORCING STEEL
  - CONCRETE MIX DESIGN
  - STRUCTURAL STEEL
- SEISMIC BRACING FOR SUSPENDED PIPING SYSTEMS. (SECTION 220548 & 230548).
- STRUCTURAL CALCULATIONS FOR ELECTRICAL SYSTEMS.
- HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS (SECTION 260529).
- SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS (SECTION 260548.16).
- DIGITAL ADDRESSABLE FIRE ALARMS SYSTEM (SECTION 280721).
- VIBRATION AND SEISMIC CONTROLS FOR HVAC (SECTION 230548).
- FIRE ALARM SYSTEM (SECTION 284621.11).
- RACEWAY METAL BUILDING.
- DEGASSER METAL BUILDING
- DEWATERING TANK
- LIQUEFIED PETROLEUM GAS DESIGN (SECTION 231126).

**NOTE:**

- THE CONTRACTOR SHALL PROVIDE DEFERRED SUBMITTALS TO INCLUDE DETAILS AND ENGINEERING CALCULATIONS FOR ALL PLUMBING & MECHANICAL EQUIPMENT AND THEIR SUPPORT ATTACHMENTS.
- THESE SUBMITTALS SHALL BE SUPPLIED TO THE BUILDING OFFICIAL FOR REVIEW WITH AN ACCOMPANIED LETTER FROM THE ENGINEER/ARCHITECT STATING THAT THE DRAWINGS ARE IN CONFORMANCE WITH THE DESIGN.
- THE WORK RELATED TO THE DEFERRED SUBMITTALS SHALL NOT COMMENCE UNTIL THE BUILDING OFFICIAL HAS APPROVED THE SUBMITTAL.

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PROJECT NAME:

UTAH DIVISION OF  
WILDLIFE  
RESOURCES  
LOA HATCHERY  
PROJECT

ENGINEER'S STAMP

DFCM APPROVAL

|                                                                  |      |             |
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| G001                                                             |      |             |
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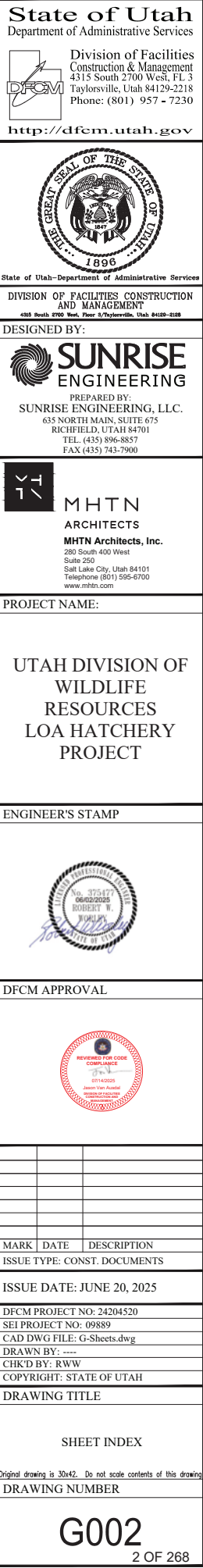
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| SITE PLAN LEGEND                                                                               |                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | DIRECT BURIED OR CONCRETE EMBEDDED CONDUIT                                                                                                                                                          |
|               | CONDUIT RUN EXPOSED                                                                                                                                                                                 |
|               | PROCESS FLOW                                                                                                                                                                                        |
|               | PNEUMATIC SIGNAL                                                                                                                                                                                    |
|               | ELECTRICAL SIGNAL                                                                                                                                                                                   |
|               | PANEL OR ENCLOSURE                                                                                                                                                                                  |
|  <p>X-YYY</p> | <p>CONDUIT IDENTIFICATION, REFER TO CONDUIT AND CONDUCTOR SCHEDULE FOR QUANTITY AND FILL:<br/> X = CONDUIT TYPE<br/> P=POWER<br/> C=CONTROL<br/> F=FIBER OPTIC CABLE<br/> X=OTHER<br/> YYY = ID</p> |

| SYMBOL LEGEND                                                                       |                                          |
|-------------------------------------------------------------------------------------|------------------------------------------|
|    | BALL VALVE                               |
|    | BUTTERFLY VALVE                          |
|    | GATE VALVE                               |
|    | PLUG VALVE                               |
|    | MOTOR OPERATED VALVE                     |
|    | THREE WAY VALVE                          |
|    | CHECK VALVE                              |
|    | PRESSURE OPERATED VALVE                  |
|    | BACK PRESSURE REGULATOR INTERNAL TAP     |
|    | BACK PRESSURE REGULATOR EXTERNAL TAP     |
|    | PRESSURE REDUCING REGULATOR INTERNAL TAP |
|    | PRESSURE REDUCING REGULATOR EXTERNAL TAP |
|    | PRESSURE RELIEF VALVE                    |
|   | AIR-VAC ASSEMBLY                         |
|  | PIPE REDUCER                             |
|  | PUMP                                     |
|  | PERISTALTIC PUMP                         |
|  | MAGNETIC FLOW METER                      |
|  | TURBINE PROPELLER FLOW METER             |
|  | ULTRASONIC FLOW METER                    |
|  | FILTER / SCREEN                          |
|  | ORIFICE / DIFFERENTIAL FLOW METER        |
|  | STATIC MIXER                             |
|  | INTERLOCK                                |

| IDENTIFIER | DESCRIPTION                            | PLC I/O |
|------------|----------------------------------------|---------|
| AE         | ANALYTICAL ELEMENT                     |         |
| AI         | ANALYTICAL INSTRUMENT INDICATOR        | AI      |
| AT         | ANALYTICAL INSTRUMENT TRANSMITTER      | AI      |
| FE         | FLOW ELEMENT                           |         |
| FI         | FLOW INDICATOR                         | AI      |
| FIQ        | FLOW QUANTITY INDICATOR                | DI      |
| FIT        | FLOW INDICATING TRANSMITTER            | AI      |
| FT         | FLOW TRANSMITTER                       | AI      |
| HS         | HAND SWITCH                            | DI      |
| LAL        | LEVEL ALARM HIGH                       | DI      |
| LAL        | LEVEL ALARM LOW                        | DI      |
| LI         | LEVEL INDICATOR                        | AI      |
| LIT        | LEVEL INDICATING TRANSMITTER           | AI      |
| LT         | LEVEL TRANSMITTER                      | AI      |
| PIT        | PRESSURE INDICATING TRANSMITTER        | AI      |
| SI         | SPEED INDICATOR (FEEDBACK)             | AI      |
| SC         | SPEED COMMAND (OUTPUT)                 | AO      |
| TAH        | TEMPERATURE ALARM HIGH                 | DI      |
| TI         | TEMPERATURE INDICATOR                  | AI      |
| WAH        | WEIGHT/FORCE/TORQUE HIGH ALARM         | DI      |
| WI         | WEIGHT/FORCE/TORQUE INDICATOR          | AI      |
| YA         | EVENT ALARM                            | DI      |
| YI         | EVENT INDICATOR                        | DI      |
| YS         | EVENT SWITCH                           | DI      |
| YX         | EVENT EXECUTE (RUN COMMAND)            | DO      |
| ZI         | POSITION INDICATOR (POSITION FEEDBACK) | AI      |
| ZSC        | POSITION LIMIT SWITCH CLOSED           | DI      |
| ZSO        | POSITION LIMIT SWITCH OPEN             | DI      |
| ZX         | POSITION REFERENCE                     | AO      |
| ZXC        | POSITION EXECUTE CLOSE (CLOSE COMMAND) | DO      |
| ZXO        | POSITION EXECUTE OPEN (OPEN COMMAND)   | DO      |

| CONTROL ELEMENTS              |             |                  |                    |
|-------------------------------|-------------|------------------|--------------------|
| PRIMARY LOCATION              | FIELD MOUNT | PRIMARY LOCATION | AUXILIARY LOCATION |
| DISCRETE INSTRUMENTS          |             |                  |                    |
| SHARED DISPLAY SHARED CONTROL |             |                  |                    |
| COMPUTER FUNCTION             |             |                  |                    |
| PROGRAMMABLE LOGIC CONTROL    |             |                  |                    |

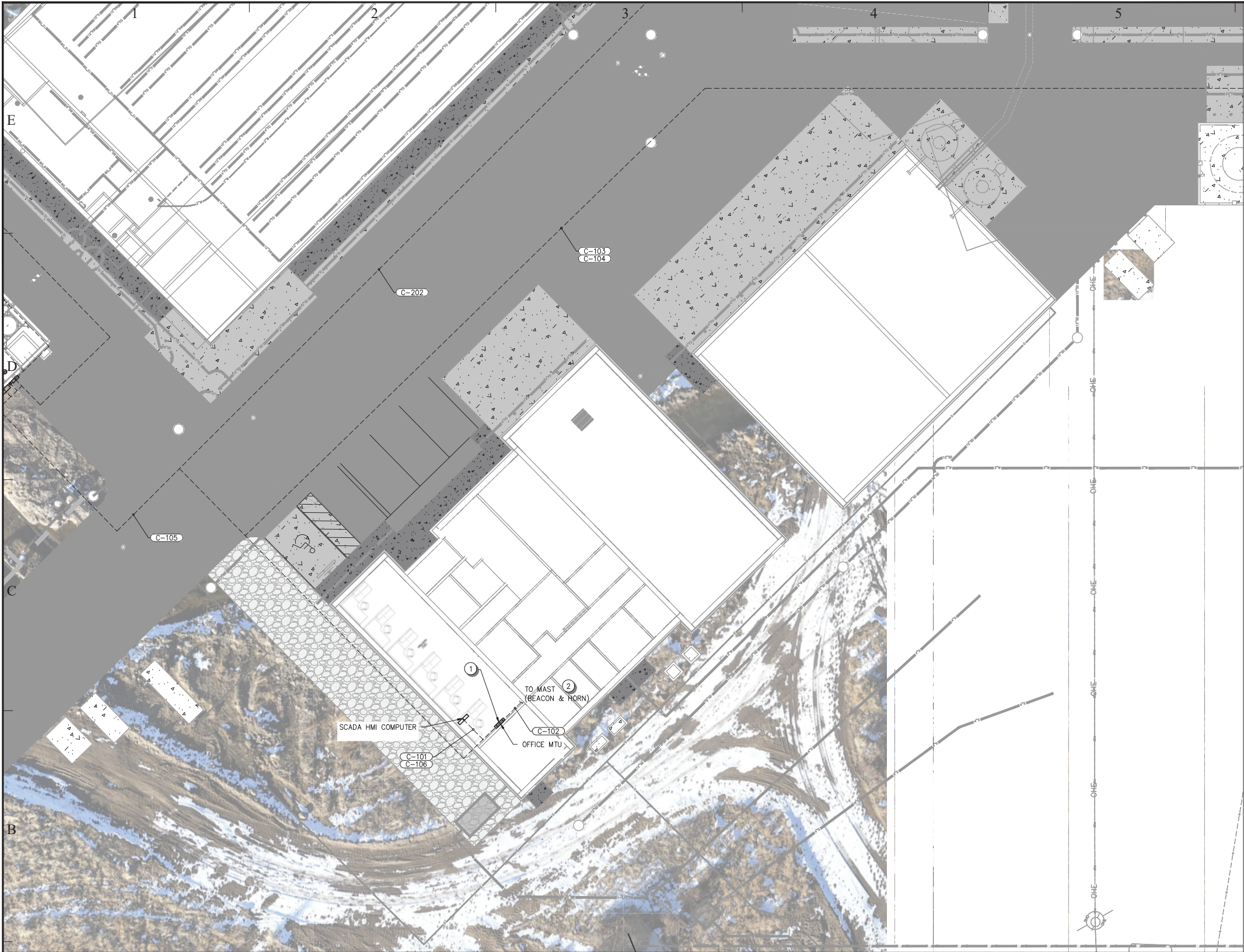
| FLUID SERVICE CODES |                       |
|---------------------|-----------------------|
| IDENTIFIER          | DESCRIPTION           |
| CAR                 | COMPRESSED AIR        |
| CBW                 | CLEAN BACKWASH WATER  |
| CFD                 | CAUSTIC RAW FEED      |
| CL2                 | CHLORINE              |
| DBW                 | DIRTY BACKWASH WATER  |
| DRN                 | PROCESS DRAIN         |
| FEW                 | FILTER EFFLUENT WATER |
| FIW                 | FILTER INFLUENT WATER |
| IRR                 | IRRIGATION WATER      |
| NAG                 | NATURAL GAS           |
| PAR                 | PROCESS AIR           |
| PWR                 | POTABLE WATER         |
| STO                 | STORM DRAIN           |
| VNT                 | VENT (GENERAL USE)    |
| WWR                 | WASTEWATER            |

| FIRST LETTERS                  |                                |                                    | SUCCEEDING LETTERS              |                                                      |                      |
|--------------------------------|--------------------------------|------------------------------------|---------------------------------|------------------------------------------------------|----------------------|
| MEASURED / INITIATING VARIABLE | DESCRIPTION                    | VARIABLE                           | READOUT / PASSIVE FUNCTION      | OUTPUT / ACTIVE FUNCTION                             | FUNCTION MODIFIER    |
| A                              | ANALYSIS                       |                                    | ALARM                           |                                                      |                      |
| B                              | BURNER COMBUSTION              |                                    | USER'S CHOICE                   | USER'S CHOICE                                        | USER'S CHOICE        |
| C                              | COMMUNICATION, CONDUCTIVITY    |                                    |                                 | CONTROL                                              | CLOSE                |
| D                              | DENSITY                        | DIFFERENCE DIFFERENTIAL            |                                 |                                                      | DEVIATION            |
| E                              | VOLTAGE                        |                                    | SENSOR, PRIMARY ELEMENT         |                                                      |                      |
| F                              | FLOW, FLOW RATE                | RATIO                              |                                 |                                                      |                      |
| G                              | USER'S CHOICE                  |                                    | GLASS, GAUGE, VIEWING DEVICE    |                                                      |                      |
| H                              | HAND                           |                                    |                                 |                                                      | HIGH                 |
| I                              | CURRENT                        |                                    | INDICATE                        |                                                      |                      |
| J                              | POWER                          | SCAN                               |                                 |                                                      |                      |
| K                              | TIME, SCHEDULE                 | TIME RATE OF CHANGE                |                                 | CONTROL STATION                                      |                      |
| L                              | LEVEL                          |                                    | LIGHT                           | STATUS                                               | LOW                  |
| M                              | MOISTURE, MANUAL, MULTI, MOTOR | OVERRIDE                           |                                 |                                                      | MIDDLE, INTERMEDIATE |
| N                              | USER'S CHOICE                  |                                    | USER'S CHOICE                   | USER'S CHOICE                                        | USER'S CHOICE        |
| O                              | OVERLOAD                       |                                    | ORIFICE                         |                                                      | OPEN                 |
| P                              | PRESSURE, VACUUM               |                                    | POINT (TEST CONNECTION)         |                                                      |                      |
| Q                              | QUANTITY                       | INTEGRATE, TOTALIZE                | INTEGRATE, TOTALIZE             |                                                      |                      |
| R                              | RADIATION, RESTRICTION         |                                    | RECORD                          |                                                      | RUN                  |
| S                              | SPEED, FREQUENCY               | SAFETY                             |                                 | SWITCH                                               | STOP                 |
| T                              | TEMPERATURE                    |                                    |                                 | TRANSMIT                                             |                      |
| U                              | MULTI-VARIABLE                 |                                    | MULTIFUNCTION                   | MULTIFUNCTION                                        |                      |
| V                              | VIBRATION, MECHANICAL ANALYSIS |                                    |                                 | VALVE, DAMPER, LOUVER                                |                      |
| W                              | WEIGHT, FORCE                  |                                    | WELL, PROBE                     |                                                      |                      |
| X                              | UNCLASSIFIED, MISCELLANEOUS    | X-AXIS                             | ACCESSORY DEVICES, UNCLASSIFIED | EXECUTE                                              | UNCLASSIFIED         |
| Y                              | EVENT, STATE, PRESENCE         | Y-AXIS                             |                                 | RELAY, COMPUTING DEVICE                              |                      |
| Z                              | POSITION, DIMENSION            | Z-AXIS, SAFETY INSTRUMENTED SYSTEM |                                 | DRIVER, ACTUATOR, UNCLASSIFIED FINAL CONTROL ELEMENT |                      |

## P&ID LINE LEGEND

|                                                                                       |                                |
|---------------------------------------------------------------------------------------|--------------------------------|
|  | MAIN PROGRESS LINE             |
|  | MINOR PROGRESS LINE            |
|  | ELECTRICAL CONNECTION          |
|  | DATA LINK (PROTOCOL SPECIFIED) |
|  | PNEUMATIC SIGNAL               |
|  | CAPILLARY TUBE                 |
|  | MECHANICAL LINK                |
|  | USER DEFINED                   |

## 259 OF 268



SHEET NOTES:

1. THE CONTRACTOR WILL BE RESPONSIBLE TO LOCATE ALL EXISTING UNDERGROUND UTILITIES BEFORE ANY EXCAVATION IS PERFORMED. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED TO NEW CONDITION OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
2. NOT ALL CONDUITS ARE SHOWN. REFER TO CONDUIT AND CONDUCTOR SCHEDULE FOR INDIVIDUAL CONDUIT FILL REQUIREMENTS. CONDUIT LAYOUT SHOWN IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL FIELD ROUTE AS NECESSARY TO ACCOMMODATE FIELD CONDITIONS AND AVOID OTHER STRUCTURES AS REQUIRED.
3. (X) DENOTES INSTRUMENTATION EQUIPMENT IDENTIFICATION.

KEY NOTES

1. CONTRACTOR SHALL COORDINATE WITH OWNER TO CONFIRM WIRE CONNECTION POINT INSIDE CONTAINERS.
2. CONTRACTOR SHALL COORDINATE WITH OWNER TO CONFIRM LOCATION OF ROOF PENETRATION.

A OFFICE SITE PLAN  
SCALE 1" = 10' AT SHEET SIZE 30" x 42"

| CONDUIT AND CONDUCTOR SCHEDULE |                                       |                    |                      |              |      |                         |     |                              |
|--------------------------------|---------------------------------------|--------------------|----------------------|--------------|------|-------------------------|-----|------------------------------|
| CONDUIT TAG                    | DESCRIPTION                           | ROUTING            |                      | MIN. CONDUIT |      | CONDUCTORS (CU) PER C.  |     | REMARKS OR REFERENCE DRAWING |
|                                |                                       | FROM               | TO                   | QTY          | SIZE | (QTY) & SIZE            | GND |                              |
| C-101                          | SCADA HMI COMPUTER TO MTU             | SCADA HMI COMPUTER | OFFICE MTU           | 1            | 1"   | (1) CAT6                |     |                              |
| C-102                          | MTU BEACON & HORN                     | OFFICE MTU         | BEACON & HORN        | 1            | 1"   | (4) #14 AWG             | #14 | CTRL                         |
| C-103                          | FISH WASTE LIFT STATION SYSTEM STATUS | OFFICE MTU         | FISH WASTE LIFT RTU  | 1            | 1"   | (2) CAT6                |     | CTRL                         |
| C-104                          | DEWATERING SYSTEM STATUS              | OFFICE MTU         | DEWATERING RTU       | 1            | 1"   | (2) CAT6                |     | CTRL                         |
| C-105                          | DEGASSING SYSTEM STATUS               | OFFICE MTU         | DEGASSING RTU        | 1            | 1"   | (2) CAT6                |     | CTRL                         |
| C-106                          | FISH FOOD CONTROLLER                  | OFFICE MTU         | FISH FOOD CONTROLLER | 1            | 1"   | (4) #14 AWG<br>(1) CAT6 | #14 | CTRL                         |

| INSTRUMENTATION EQUIPMENT SCHEDULE |               |          |                       |                   |          |
|------------------------------------|---------------|----------|-----------------------|-------------------|----------|
| (X)                                | DESCRIPTION   | QUANTITY | MODEL / SPECIFICATION | MANUFACTURER      | COMMENTS |
| 1                                  | MTU           | 1        | 17100                 |                   |          |
| 2                                  | BEACON & HORN | 1        | 17503                 | EDWARDS SIGNALING |          |



DESIGNED BY:

PROJECT NAME:

UTAH DIVISION OF  
WILDLIFE  
RESOURCES  
LOA HATCHERY  
PROJECT

ENGINEER'S STAMP



DFCM APPROVAL



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ISSUE TYPE: CONST. DOCUMENTS

ISSUE DATE: JUNE 20, 2025

DFCM PROJECT NO: 24204520  
SEI PROJECT NO: S09889  
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DRAWING TITLE

CONTROLS  
OFFICE SITE PLAN

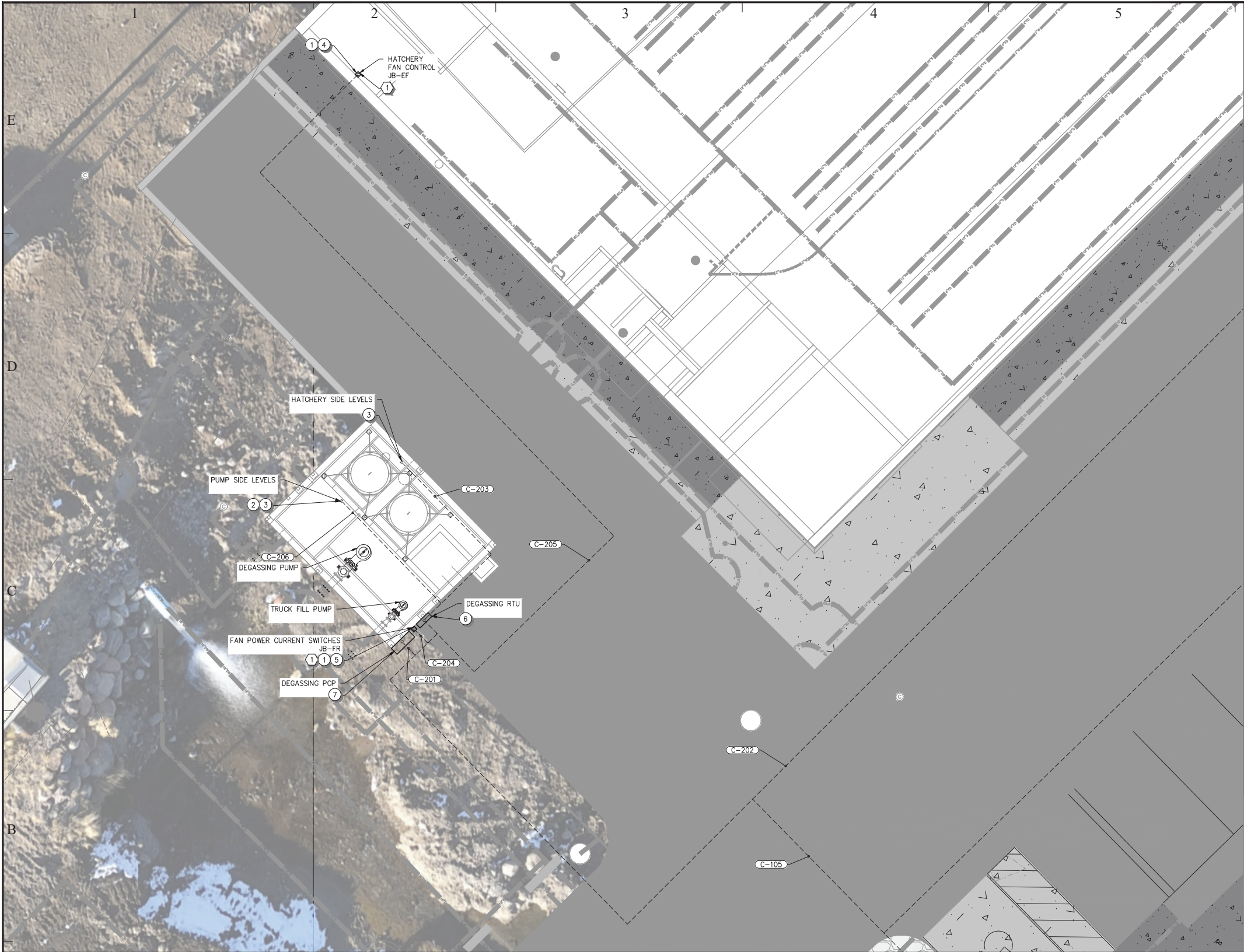
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DRAWING NUMBER

1201

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SHEET NOTES:

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3. (X) DENOTES INSTRUMENTATION EQUIPMENT IDENTIFICATION.

KEY NOTES

- (1) CURRENT SWITCH TO BE INSTALLED ON FAN POWER WIRES AND MOUNTED IN JUNCTION BOX.

6



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CONTROLS  
DEGASSING SITE PLAN

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1202

261 OF 268

**DEGASSING SITE PLAN**  
SCALE 1" = 5' AT SHEET SIZE 30" x 42"

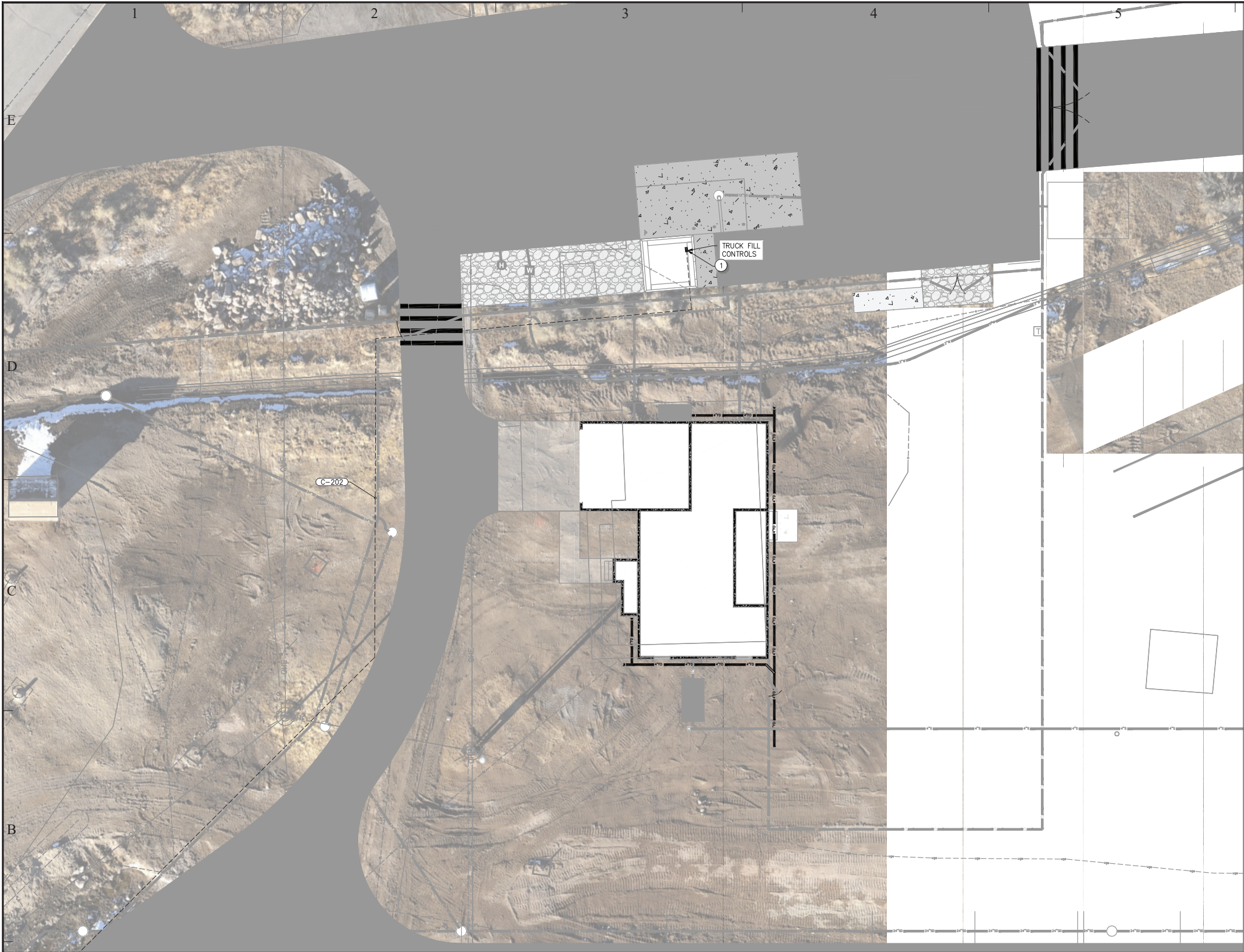
INSTRUMENTATION EQUIPMENT SCHEDULE

| (X) | DESCRIPTION             | QUANTITY | MODEL / SPECIFICATION         | MANUFACTURER              | COMMENTS |
|-----|-------------------------|----------|-------------------------------|---------------------------|----------|
| 1   | CURRENT SWITCH          | 4        | 17350                         | VERIS HAWKEYE OR EQUAL    |          |
| 2   | LEVEL SENSORS           | 1        | 17310                         | KELLER ACCULEVEL OR EQUAL |          |
| 3   | FLOAT SWITCH            | 2        | 17315                         | MJK 7030 OR EQUAL         |          |
| 4   | JUNCTION BOX (6"x6"x4") | 1        | SEE ELECTRICAL SPECIFICATIONS |                           |          |
| 5   | JUNCTION BOX (8"x8"x4") | 1        | SEE ELECTRICAL SPECIFICATIONS |                           |          |
| 6   | RTU                     | 1        | 17100                         |                           |          |
| 7   | PUMP CONTROL PANEL      | 1        | 17051SP                       |                           |          |
| 8   | BUBBLER CONTROL PANEL   | 1        | 11403SP                       |                           |          |

CONDUIT AND CONDUCTOR SCHEDULE

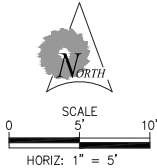
| CONDUIT AND CONDUCTOR SCHEDULE |                                                          |               |                                 |              |      |                            |     |         |                                                           |
|--------------------------------|----------------------------------------------------------|---------------|---------------------------------|--------------|------|----------------------------|-----|---------|-----------------------------------------------------------|
| CONDUIT TAG                    | DESCRIPTION                                              | ROUTING       |                                 | MIN. CONDUIT |      | CONDUCTORS (CU) PER C.     |     | VOLTAGE | REMARKS OR REFERENCE DRAWING                              |
|                                |                                                          | FROM          | TO                              | QTY          | SIZE | (QTY) & SIZE               | GND |         |                                                           |
| C-105                          | DEGASSING SYSTEM STATUS                                  | OFFICE MTU    | DEGASSING RTU                   | 1            | 1"   | (2) CAT6                   |     | CTRL    | CONDUIT TO BE RUN IN SAME TRENCH AS TRUCK FILL WATER LINE |
| C-201                          | DEGASSING PUMP, TRUCK FILL PUMP, & BUBBLER PUMP CONTROLS | DEGASSING RTU | DEGASSING PCP                   | 1            | 1"   | (6) #14 AWG<br>(1) CAT6    | #14 | CTRL    |                                                           |
| C-202                          | TRUCK FILL HAND CONTROL                                  | DEGASSING PCP | TRUCK FILL STATION              | 1            | 1"   | (4) #14 AWG                | #14 | CTRL    |                                                           |
| C-203                          | HATCHERY SIDE WATER LEVEL                                | DEGASSING RTU | HATCHERY SIDE WATER LEVEL       | 1            | 1"   | (2) #14 AWG                | #14 | CTRL    |                                                           |
| C-204                          | RADON EXHAUST FANS                                       | DEGASSING RTU | RADON EXH. FAN J-BOX            | 1            | 1"   | (4) #14 AWG                | #14 | CTRL    |                                                           |
| C-205                          | HATCHERY BUILDING FAN CONTROL PANEL                      | DEGASSING RTU | HATCHERY BUILDING CONTROL PANEL | 1            | 1"   | (2) #14 AWG                | #14 | CTRL    |                                                           |
| C-206                          | PUMP SIDE WATER LEVELS                                   | DEGASSING RTU | PUMP SIDE WATER LEVELS          | 1            | 1"   | (2) #14 AWG<br>(1) #16 TSP | #14 | CTRL    |                                                           |
|                                |                                                          |               |                                 |              |      |                            |     |         |                                                           |





SHEET NOTES:

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3. (X) DENOTES INSTRUMENTATION EQUIPMENT IDENTIFICATION.



**A** TRUCK FILL SITE PLAN  
SCALE 1" = 5' AT SHEET SIZE 30" x 42"

INSTRUMENTATION EQUIPMENT SCHEDULE

| (X) | DESCRIPTION                      | QUANTITY | MODEL / SPECIFICATION | MANUFACTURER | COMMENTS |
|-----|----------------------------------|----------|-----------------------|--------------|----------|
| 1   | TRUCK FILL CONTROLS BUTTON PANEL | 1        | 17051SP               |              |          |

CONDUIT AND CONDUCTOR SCHEDULE

| CONDUIT TAG | DESCRIPTION             | ROUTING       | MIN. CONDUIT QTY   | CONDUCTORS (CU) PER C. (QTY) & SIZE | VOLTAGE         | REMARKS OR REFERENCE DRAWING                                   |
|-------------|-------------------------|---------------|--------------------|-------------------------------------|-----------------|----------------------------------------------------------------|
|             |                         | FROM          | TO                 | SIZE                                | GND             |                                                                |
| C-202       | TRUCK FILL HAND CONTROL | DEGASSING PCP | TRUCK FILL STATION | 1 1"                                | (4) #14 AWG #14 | CTRL CONDUIT TO BE RUN IN SAME TRENCH AS TRUCK FILL WATER LINE |



DESIGNED BY:

PROJECT NAME:

UTAH DIVISION OF  
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RESOURCES  
LOA HATCHERY  
PROJECT

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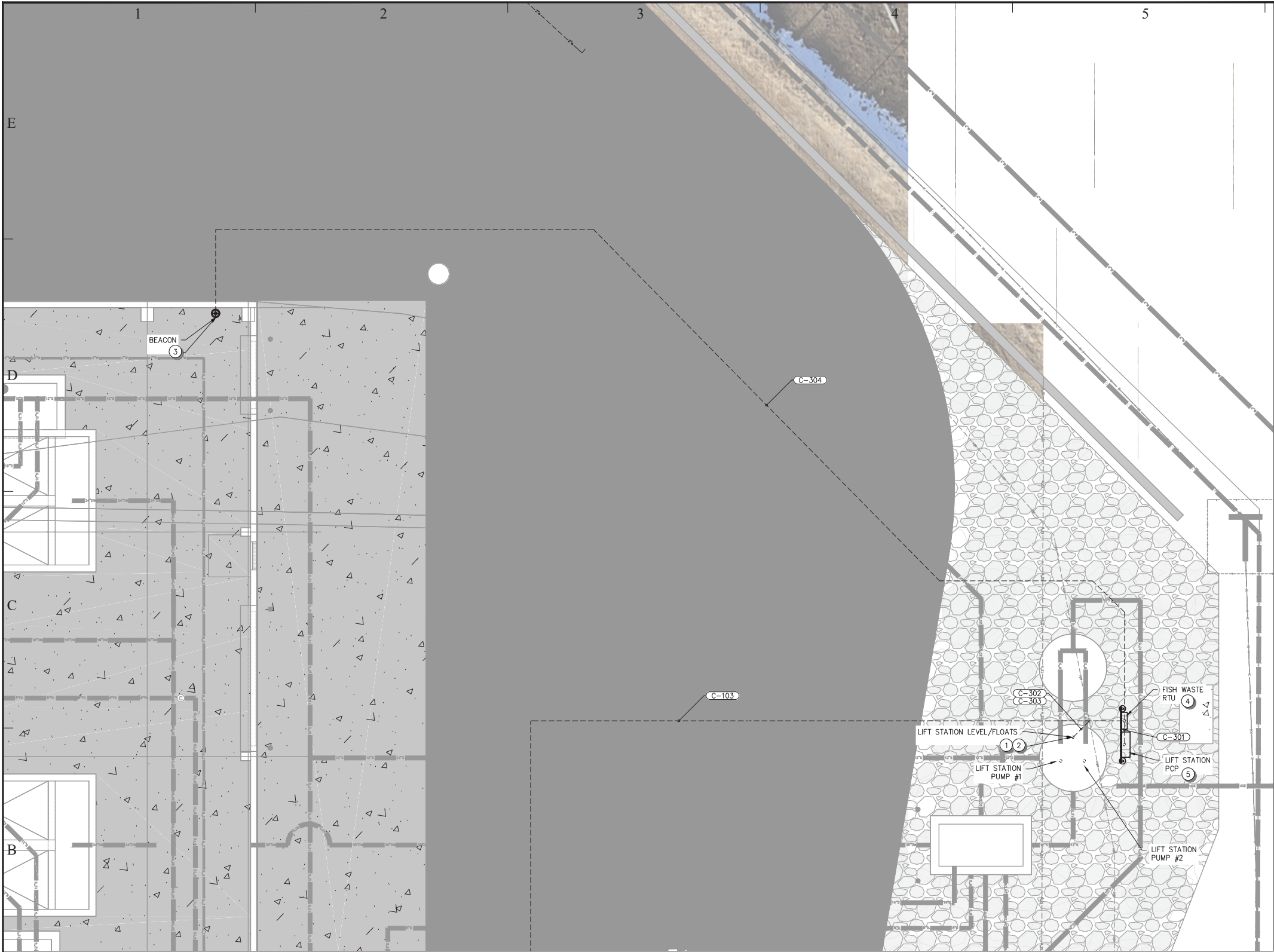
CONTROLS  
TRUCK FILL SITE PLAN

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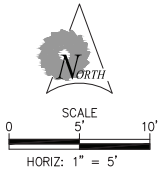
1203





SHEET NOTES:

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3.  DENOTES INSTRUMENTATION EQUIPMENT IDENTIFICATION.



**FISH WASTE LIFT SITE PLAN**  
SCALE 1" = 5' AT SHEET SIZE 30" x 42"

| INSTRUMENTATION EQUIPMENT SCHEDULE                                                 |                          |          |                       |                            |          |
|------------------------------------------------------------------------------------|--------------------------|----------|-----------------------|----------------------------|----------|
|  | DESCRIPTION              | QUANTITY | MODEL / SPECIFICATION | MANUFACTURER               | COMMENTS |
| 1                                                                                  | FLOAT SWITCH             | 2        | 17315                 | MJK 7030 OR EQUAL          |          |
| 2                                                                                  | RADAR LEVEL SENSOR       | 1        | 17312SP               | PULSAR REFLECT OR EQUAL    |          |
| 3                                                                                  | BEACON                   | 1        | 17503                 | EDWARDS SIGNALING OR EQUAL |          |
| 4                                                                                  | RTU                      | 1        | 17100                 |                            |          |
| 5                                                                                  | PUMP CONTROL PANEL (PCP) | 1        | 17051SP               |                            |          |

| CONDUIT AND CONDUCTOR SCHEDULE |                                       |               |                     |                  |              |                        |     |         |                              |
|--------------------------------|---------------------------------------|---------------|---------------------|------------------|--------------|------------------------|-----|---------|------------------------------|
| CONDUIT TAG                    | DESCRIPTION                           | ROUTING       |                     | MIN. CONDUIT QTY | CONDUIT SIZE | CONDUCTORS (CU) PER C. |     | VOLTAGE | REMARKS OR REFERENCE DRAWING |
|                                |                                       | FROM          | TO                  |                  |              | (QTY) & SIZE           | GND |         |                              |
| C-103                          | FISH WASTE LIFT STATION SYSTEM STATUS | OFFICE MTU    | FISH WASTE LIFT RTU | 1                | 1"           | (2) CAT6               |     | CTRL    |                              |
| C-301                          | LIFT STATION PUMP CONTROL PANEL       | FISHWASTE RTU | LIFT STATION PCP    | 1                | 1"           | (2) CAT6               |     | CTRL    |                              |
| C-302                          | LIFT STATION LEVEL                    | FISHWASTE RTU | LIFT STATION LEVEL  | 1                | 1"           | (1) #16 TSP            |     | CTRL    |                              |
| C-303                          | LIFT STATION FLOATS                   | FISHWASTE RTU | LIFT STATION FLOATS | 1                | 1"           | (4) #14 AWG            | #14 | CTRL    |                              |
| C-304                          | LIFT STATION BEACON                   | FISHWASTE RTU | LIFT STATION BEACON | 1                | 1"           | (2) #14 AWG            | #14 | CTRL    |                              |

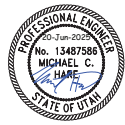


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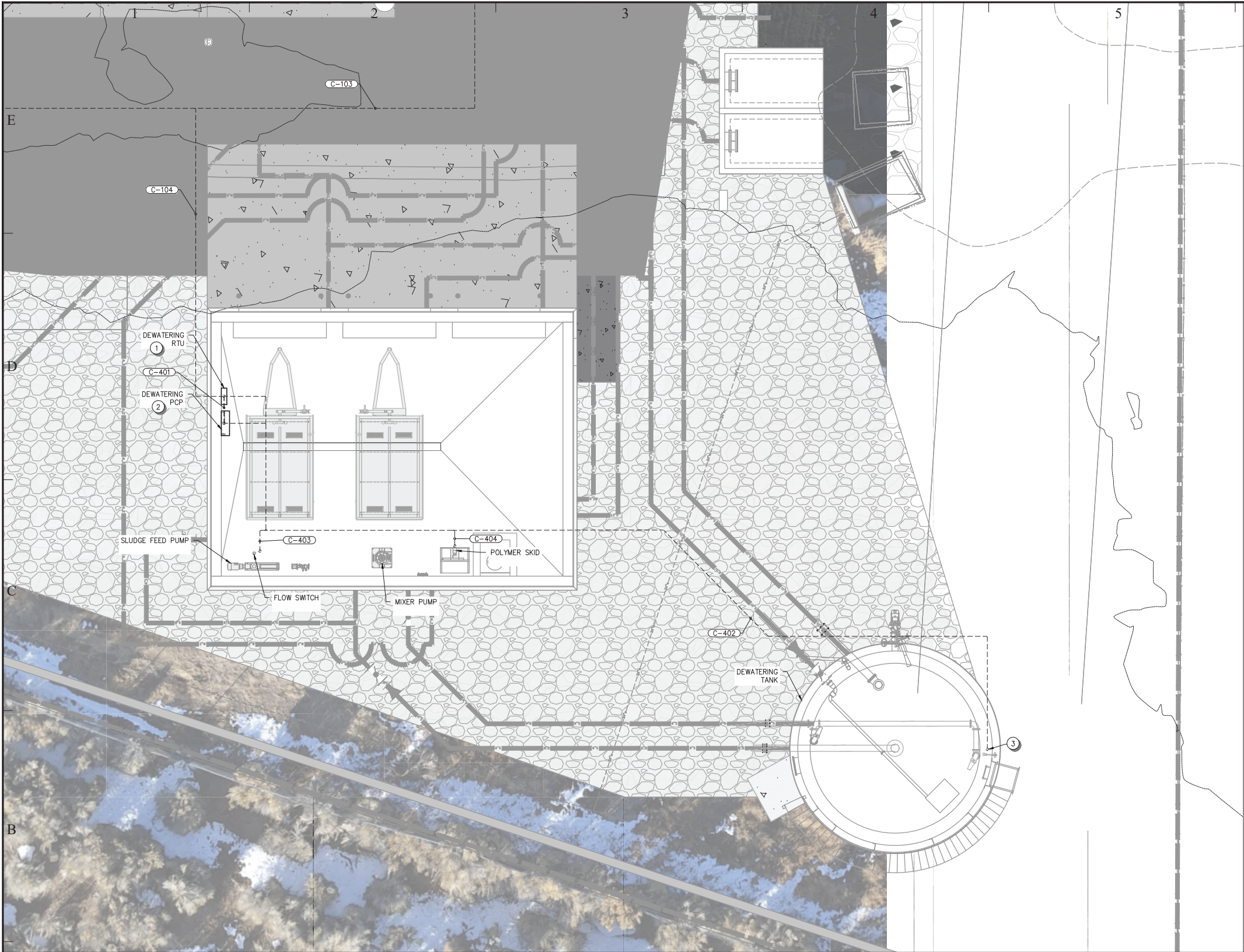
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CONTROLS  
FISH WASTE LIFT SITE PLAN

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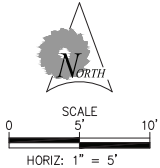
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3. (X) DENOTES INSTRUMENTATION EQUIPMENT IDENTIFICATION.



**A** DEWATERING SITE PLAN  
SCALE 1" = 5' AT SHEET SIZE 30" x 42"

| INSTRUMENTATION EQUIPMENT SCHEDULE |                          |          |                       |                         |          |
|------------------------------------|--------------------------|----------|-----------------------|-------------------------|----------|
| (X)                                | DESCRIPTION              | QUANTITY | MODEL / SPECIFICATION | MANUFACTURER            | COMMENTS |
| 1                                  | RTU                      | 1        | 17100                 |                         |          |
| 2                                  | PUMP CONTROL PANEL (PCP) | 1        | 17051SP               |                         |          |
| 3                                  | RADAR LEVEL SENSOR       | 1        | 17312SP               | PULSAR REFLECT OR EQUAL |          |

| CONDUIT AND CONDUCTOR SCHEDULE |                               |                |                        |                  |      |                        |     |         |                              |
|--------------------------------|-------------------------------|----------------|------------------------|------------------|------|------------------------|-----|---------|------------------------------|
| CONDUIT TAG                    | DESCRIPTION                   | ROUTING        |                        | MIN. CONDUIT QTY | SIZE | CONDUCTORS (CU) PER C. |     | VOLTAGE | REMARKS OR REFERENCE DRAWING |
|                                |                               | FROM           | TO                     |                  |      | (QTY) & SIZE           | GND |         |                              |
| C-104                          | DEGASSING SYSTEM STATUS       | OFFICE MTU     | DEGASSING RTU          | 1                | 1"   | (2) CAT6               |     | CTRL    |                              |
| C-401                          | DEWATERING PUMP CONTROL PANEL | DEWATERING RTU | DEWATERING PCP         | 1                | 1"   | (10) #14 AWG           | #14 | CTRL    |                              |
| C-402                          | DEWATERING TANK LEVEL         | DEWATERING RTU | DEWATERING TANK LEVEL  | 1                | 1"   | (1) CAT6               |     | CTRL    |                              |
| C-403                          | FLOW SWITCH STATUS            | DEWATERING RTU | FLOW SWITCH            | 1                | 1"   | (1) #16 TSP            |     | CTRL    |                              |
| C-404                          | POLYMER INJECTION SKID        | DEWATERING RTU | POLYMER INJECTION SKID | 1                | 1"   | (4) #14 AWG            | #14 | CTRL    |                              |



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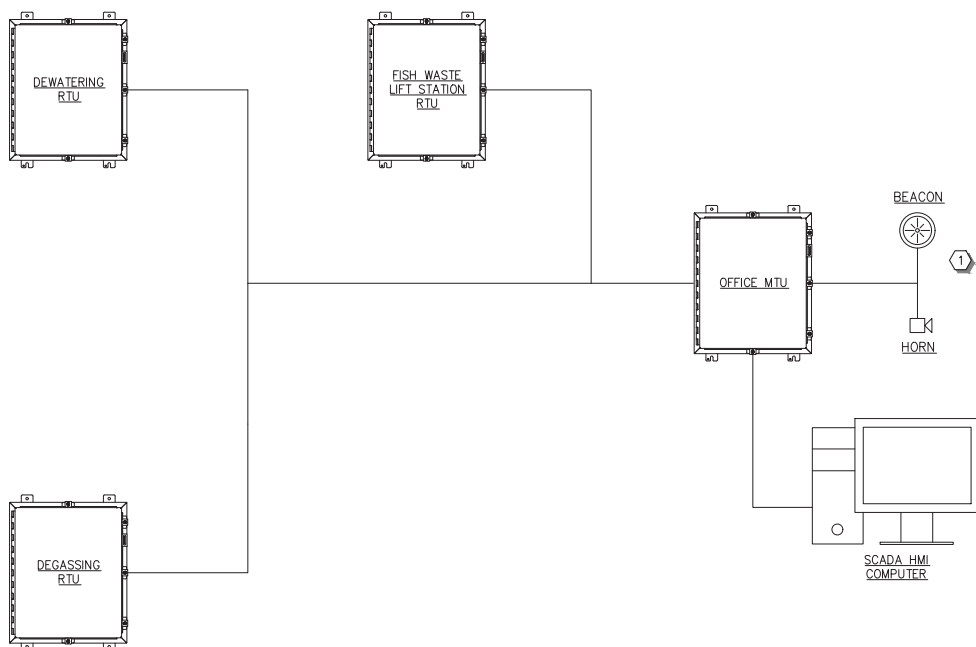
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CONTROLS  
DEWATERING SITE PLAN



**NOTE:**  
BEACON AND HORN TO BE BACKED UP  
BY RTU BATTERY BACKUP SYSTEM.



**Division of Facilities  
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<http://dfcm.utah.gov>



State of Utah—Department of Administrative Services

## DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

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CONTROLS  
COMMUNICATION DIAGRAM

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