

| EXISTING | |
|----------|---|
| | RIGHT OF WAY |
| | PERMANENT EASEMENT |
| | PROPERTY LINE |
| | HORIZONTAL CONTROL POINT |
| | BENCHMARK |
| | SURVEY MARKER |
| | SOIL BORING |
| | SANITARY SEWER AND MANHOLE |
| | FORCE MAIN AND LIFT STATION |
| | SANITARY SEWER SERVICE & CLEANOUT |
| | WATER MAIN, HYDRANT, VALVE AND MANHOLE |
| | WATER SERVICE AND CURB STOP BOX |
| | STORM SEWER, MANHOLE AND CATCH BASIN |
| | CULVERT AND APRON ENDWALL |
| | GAS MAIN, VALVE, VENT AND METER |
| | HANDHOLE |
| | BURIED FIBER OPTIC CABLE AND MANHOLE |
| | BURIED PHONE CABLE, PEDESTAL AND MANHOLE |
| | BURIED TV CABLE, PEDESTAL AND MANHOLE |
| | BURIED ELECTRIC CABLE, PEDESTAL, MANHOLE, TRANSFORMER AND METER |
| | OVERHEAD WIRE, POLE AND GUY WIRE |
| | LIGHT POLE |
| | TRAFFIC SIGNAL |
| | STREET NAME SIGN |
| | SIGN (NON STREET NAME) |
| | RAILROAD TRACKS |
| | DECIDUOUS AND CONIFEROUS TREE |
| | BUSH / SHRUB AND STUMP |
| | EDGE OF WOODED AREA |
| | WETLAND |
| | BUILDING |
| | FENCE (UNIDENTIFIED) |
| | BARBED WIRE FENCE |
| | CHAIN LINK FENCE |
| | ELECTRIC WIRE FENCE |
| | WOOD FENCE |
| | WOVEN WIRE FENCE |
| | PLATE BEAM GUARDRAIL |
| | CABLE GUARDRAIL |
| | POST / BOLLARD |
| | RETAINING WALL |
| PROPOSED | |
| | STREET CENTERLINE |
| | RIGHT-OF-WAY |
| | PERMANENT EASEMENT |
| | TEMPORARY EASEMENT |
| | CONSTRUCTION LIMITS |
| | SANITARY SEWER, BULKHEAD AND MANHOLE |
| | FORCE MAIN |
| | SANITARY SERVICE AND CLEANOUT |
| | WATER MAIN, TEE, HYDRANT, BULKHEAD AND VALVE |
| | WATER VALVE MANHOLE, REDUCER, BEND AND CROSS |
| | WATER SERVICE AND CURB STOP BOX |
| | STORM SEWER, MANHOLE AND CATCH BASIN |
| | CULVERT AND APRON ENDWALL |
| | DRAIN TILE |
| | DITCH / SWALE |
| | RIPRAP |
| | STREET NAME SIGN |
| | SIGN (NON STREET NAME) |
| | RETAINING WALL |

WILDCAT BLUFF

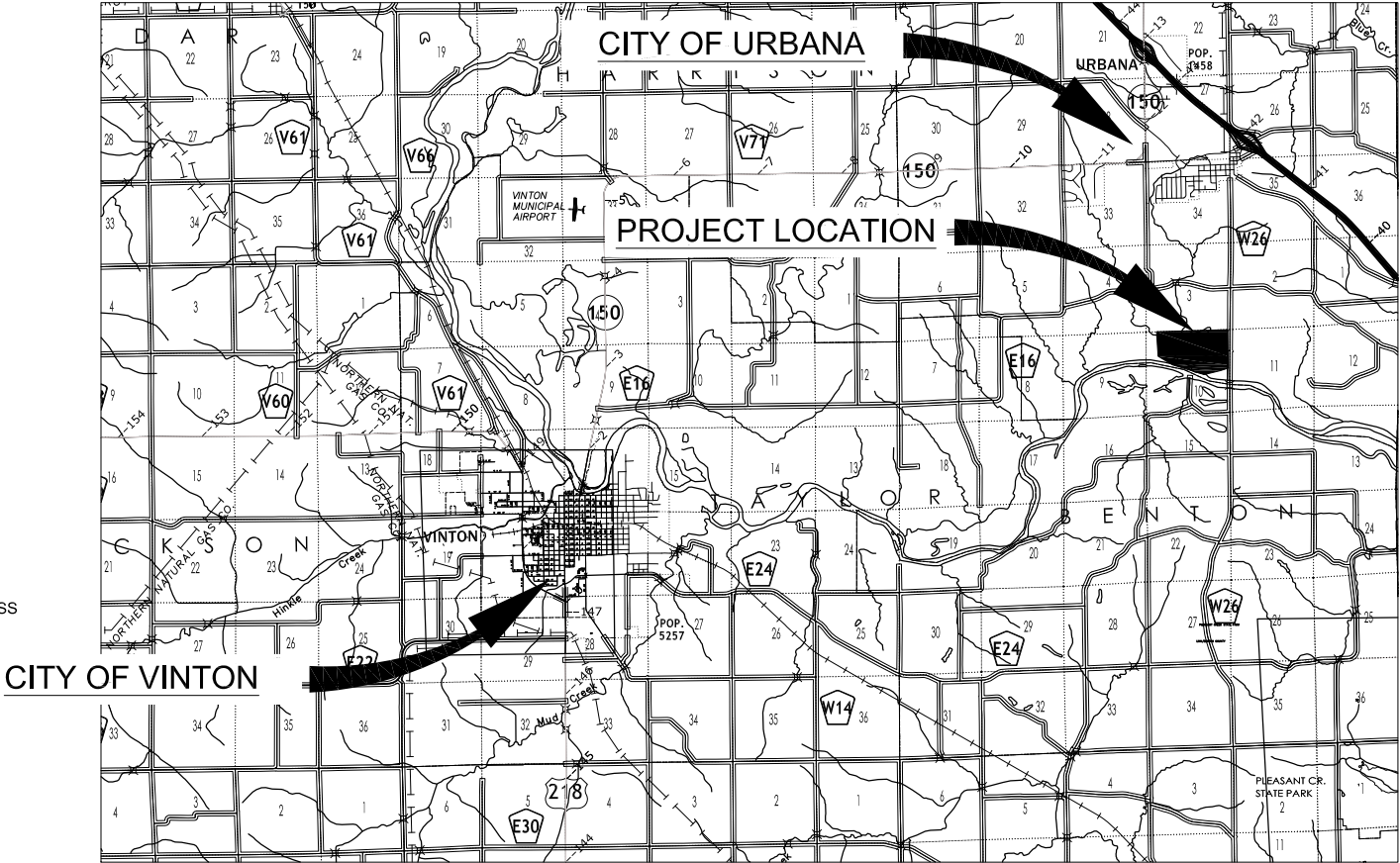
BENTON COUNTY CONSERVATION BOARD

CENTER POINT, IOWA

CONSTRUCTION PLANS FOR

WATER DISTRIBUTION

SYSTEM IMPROVEMENTS



| SHEET NO. | INDEX |
|-----------|---|
| A.1 | COVER SHEET |
| C.1 | SITE PLAN |
| C.2 | SYSTEM SCHEMATIC AND UTILITY BUILDING DETAILS |

APPROVAL TO CONSTRUCT

PERMIT NO 2024-0197W

DATE 02/23/2024

IDNR ENVIRONMENTAL SERVICES DIVISION

BY

PERMIT ISSUED WITHOUT REVIEW

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

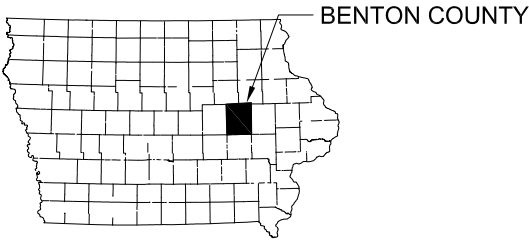
9/22/2023

Thomas K. Madden - Licence #15573 Date

My License renewal date is December 31, 2024

Pages or sheets covered by this seal: ALL

PROJECT LOCATION



THIS PROJECT IS COVERED BY THE IOWA DEPARTMENT OF NATURAL RESOURCES NPDES GENERAL PERMIT NO. 2. THE CONTRACTOR SHALL CARRY OUT THE TERMS AND CONDITIONS OF GENERAL PERMIT NO. 2 AND THE STORM WATER POLLUTION PREVENTION PLAN WHICH IS PART OF THESE CONTRACT DOCUMENTS. REFER TO SECTION 2602 OF THE IOWA DOT STANDARD SPECIFICATIONS FOR ADDITIONAL INFORMATION.

NOTE:
THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-2, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

THE CONTRACTOR SHALL CALL IOWA ONE CALL SYSTEM AT 811 BEFORE COMMENCING EXCAVATION.



THE IOWA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, SERIES 2009, PLUS GENERAL SUPPLEMENTAL SPECIFICATIONS; AND APPLICABLE SUPPLEMENTAL SPECIFICATIONS, DEVELOPMENTAL SPECIFICATION AND SPECIAL PROVISIONS SHALL APPLY TO CONSTRUCTION ON THIS PROJECT.

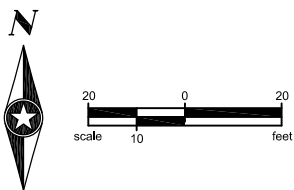
WILDCAT BLUFF



PHONE: 641.424.6344
215 NORTH ADAMS AVENUE
MASON CITY, IA 50401-3119
www.sehinc.com

FILE NO.
BENCC
173778

A.1



NOTE: CONNECT EXISTING WATER SERVICE TO RANGER HOUSE AFTER WATER METER AND RAW WATER SAMPLE TAP



215 NORTH ADAMS AVENUE
MASON CITY, IOWA 50401
PHONE 561.424.6344
www.sehinc.com

WATER DISTRIBUTION SYSTEM
IMPROVEMENTS
WILDCAT BLUFF RECREATION AREA
BENTON COUNTY CONSERVATION
BOARD
CENTER POINT, IOWA

| MARK | DATE | DESCRIPTION |
|-----------|------|-------------|
| REVISIONS | | |

| | |
|------------------|-----------------|
| SEH FILE NO. | BENCC-173778 |
| CITY PROJECT NO. | |
| ISSUE DATE | SEPTEMBER, 2023 |
| DESIGNED BY | TKM |
| DRAWN BY | dk- |

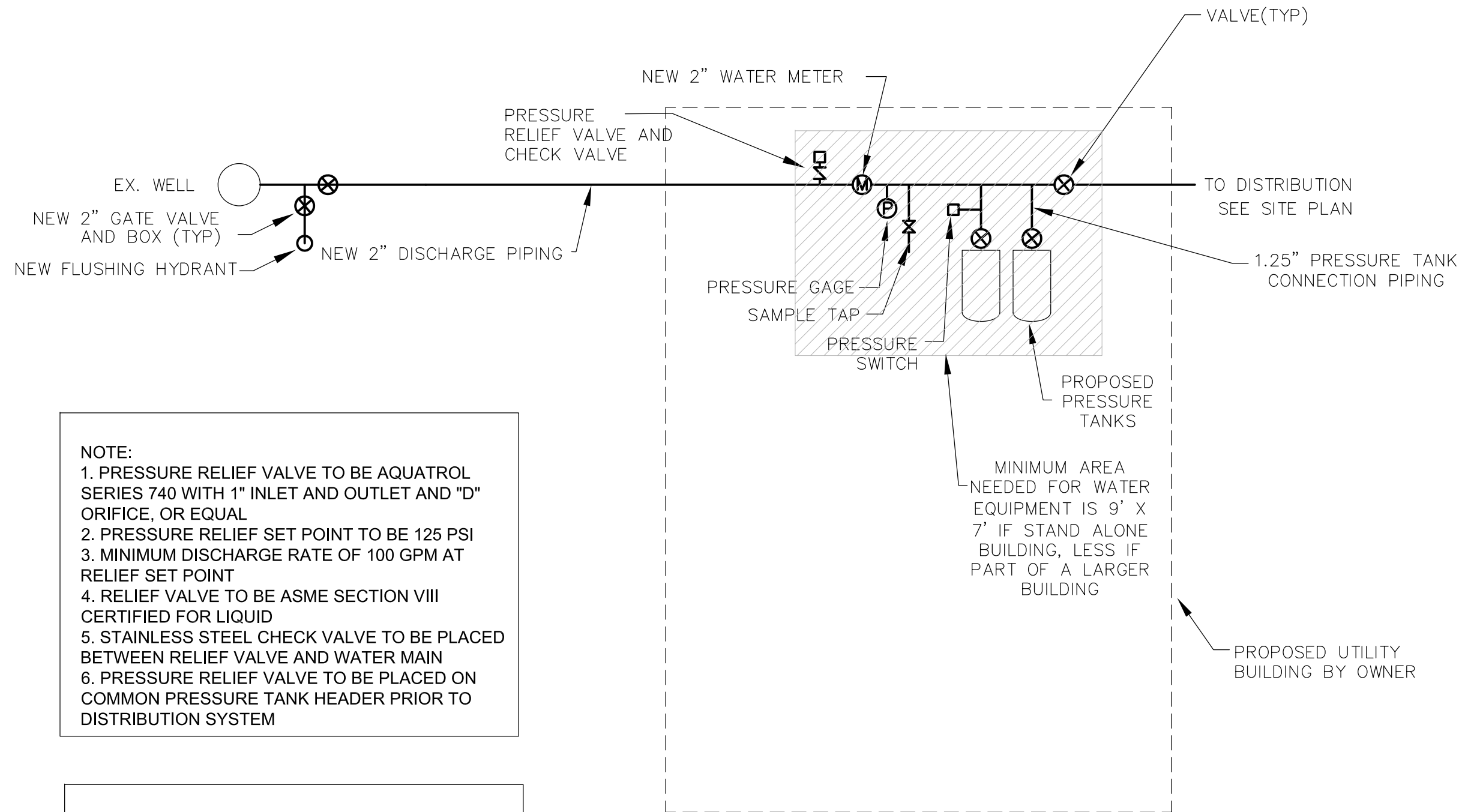
Shon Elliott Hendrickson, Inc. © (SEH)

SHEET TITLE
SITE PLAN

SHEET

C.1

X:\AEB\BENCC\173778\5-final-dsgn\51-drawings\10-Civil\cad\dwg_C3D\2022\BENCC-173778 DESIGN.dwg 9/19/2023 11:03 PM Imadden



NOTE:

1. PRESSURE RELIEF VALVE TO BE AQUATROL SERIES 740 WITH 1" INLET AND OUTLET AND "D" ORIFICE, OR EQUAL
2. PRESSURE RELIEF SET POINT TO BE 125 PSI
3. MINIMUM DISCHARGE RATE OF 100 GPM AT RELIEF SET POINT
4. RELIEF VALVE TO BE ASME SECTION VIII CERTIFIED FOR LIQUID
5. STAINLESS STEEL CHECK VALVE TO BE PLACED BETWEEN RELIEF VALVE AND WATER MAIN
6. PRESSURE RELIEF VALVE TO BE PLACED ON COMMON PRESSURE TANK HEADER PRIOR TO DISTRIBUTION SYSTEM

NOTE: THIS IS A SCHEMATIC REPRESENTATION OF THE WATER SYSTEM TO SHOW THE REQUIRED COMPONENTS. SEE SITE PLAN FOR ORIENTATION AND PROJECT MANUAL FOR TECHNICAL SPECIFICATIONS