| UTILITY AND EMERGENCY PHO | | | | | |
|-----------------------------|----------------|--|--|--|--|
| Agency | Contact Number | | | | |
| City of Cedar Rapids, lowa | | | | | |
| Public Works: | (319) 286-5802 | | | | |
| Engineering | | | | | |
| Traffic Engineering | | | | | |
| Sewer Maintenance Program | | | | | |
| Utilities Department | | | | | |
| Water Division | (319) 286-5910 | | | | |
| Police Department | | | | | |
| Business | (319) 286-5491 | | | | |
| Emergency | 911 | | | | |
| Fire Department | | | | | |
| Business | (319) 286-5200 | | | | |
| Emergency | 911 | | | | |
| lowa One Call (Utilities) | (800) 292-8989 | | | | |
| MidAmerican Energy | | | | | |
| Business | (319) 286-5162 | | | | |
| Emergency | (800) 595-5325 | | | | |
| Centurylink | | | | | |
| Engineer | (319) 399-7600 | | | | |
| Alliant (Electric, Steam) | | | | | |
| Business | (319) 398-4406 | | | | |
| Locates | (800) 292-8989 | | | | |
| Mediacom | | | | | |
| Business | (319) 395-9699 | | | | |
| Locates | (800) 292-8989 | | | | |
| AT&T (Telephone) | (319) 364-6111 | | | | |
| ImOn Communications | (2 2) 2 2 | | | | |
| Business | (319) 261-4640 | | | | |
| Emergency | (800) 298-6484 | | | | |
| Linn County REC | | | | | |
| Business | (319) 377-1587 | | | | |
| (Leave Message After Hours) | 1, 1, 1 | | | | |

CITY OF CEDAR RAPIDS THIS ENGINEERING DOCUMENT IS RECOMMENDED FOR FILING WITH THE CITY CLERK CITY ENGINEER OR DESIGNEE DATE UTILITIES ENGINEER OR DESIGNEE DATE CITY TRAFFIC ENGINEER OR DESIGNEE DATE



PLANS PREPARED BY:

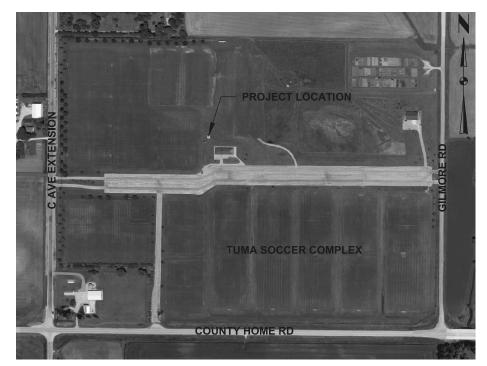
CITY OF CEDAR RAPIDS UTILITIES - WATER ENGINEERING

1111 SHAVER RD NE, CEDAR RAPIDS, IA 52402 PHONE: 319-286-5950 PLANS OF IMPROVEMENTS FOR:

2016

TUMA SOCCER COMPLEX METER INSTALLATION CITY OF CEDAR RAPIDS, IOWA

CIP NUMBER NO. 621-621010-522104 CHARTFIELD NO. 2016087-01



LOCATION MAP

PLANS PREPARED FOR:



CITY COUNCIL:

MAYOR: RON CORBETT
AT LARGE: SUSIE WEINACHT
AT LARGE: ANN POE
AT LARGE: RALPH RUSSELL
DISTRICT 1: KRIS GULICK
DISTRICT 3: PAT SHEY
DISTRICT 4: SCOTT OLSON
DISTRICT 5: JUSTIN SHIELDS

| INDEX OF SHEETS | | | | |
|-----------------|----------------------------------|--|--|--|
| SHEET NO. | DESCRIPTION | | | |
| A. 1 | TITLE SHEET | | | |
| A. 2 | GENERAL PLAN, LEGEND AND NOTES | | | |
| C. 1 | QUANTITY TABULATIONS | | | |
| C. 2 | EXISTING LAYOUT AND REMOVAL PLAN | | | |
| U. 1 | PROPOSED IMPROVEMENTS | | | |

NOTE

THE PROPOSED IMPROVEMENTS INCLUDED IN THESE DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE CEDAR RAPIDS METROPOLITAN AREA DESIGN STANDARDS MANUAL (LATEST EDITION) WITH NO EXCEPTIONS.



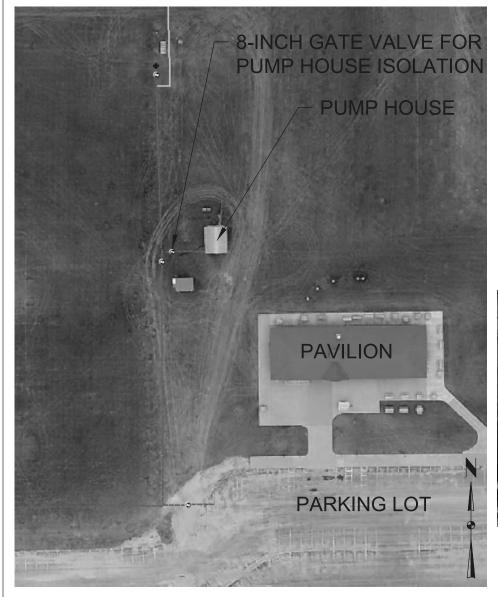
I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

KENNETH J. RUSSELL, P.E. & L.S. LICENSE NUMBER: 19353

MY LICENSE RENEWAL DATE IS: DECEMBER 31, 2016

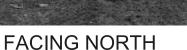
PAGES OR SHEETS COVERED BY THIS SEAL: ALL

EXISTING SITE PLAN



PUMP HOUSE EXTERIOR







FACING WEST

PUMP HOUSE INTERIOR







FACING SOUTHWEST



FACING NORTHWEST

GENERAL NOTES (ENTIRE PROJECT):

- 1. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CEDAR RAPIDS METROPOLITAN AREA STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC IMPROVEMENTS, LATEST EDITIONS.
- 2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING UTILITIES AND PAVED AREAS, INCLUDING ANY NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER IF ANY CONFLICTS WITH THE DRAWINGS OCCUR. ANY DAMAGE TO EXISTING UTILITIES, SOD, LANDSCAPE AND/OR PAVED AREAS CAUSED BY TRENCHING, GRADING, AND PAVING OPERATIONS NOT IDENTIFIED FOR REPLACEMENT SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. EXISTING UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE.
- 3. PROVIDE POSITIVE DRAINAGE AT ALL TIMES WITHIN THE CONSTRUCTION AREAS. DO NOT ALLOW WATER TO DRAIN OR TO POND ONTO ADJOINING PROPERTY OR PUBLIC RIGHT-OF-WAY.
- 4. ALL DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS SHALL BE PROPERLY DISPOSED OF OFF-SITE.
- 5. ALL WORK TO BE COMPLETED WITHIN EASEMENTS AND PUBLIC R.O.W.
- 6. WORK ITEMS NOT SPECIFICALLY CALLED OUT FOR PAYMENT SHALL BE INCIDENTAL TO CONTRACT ITEMS.

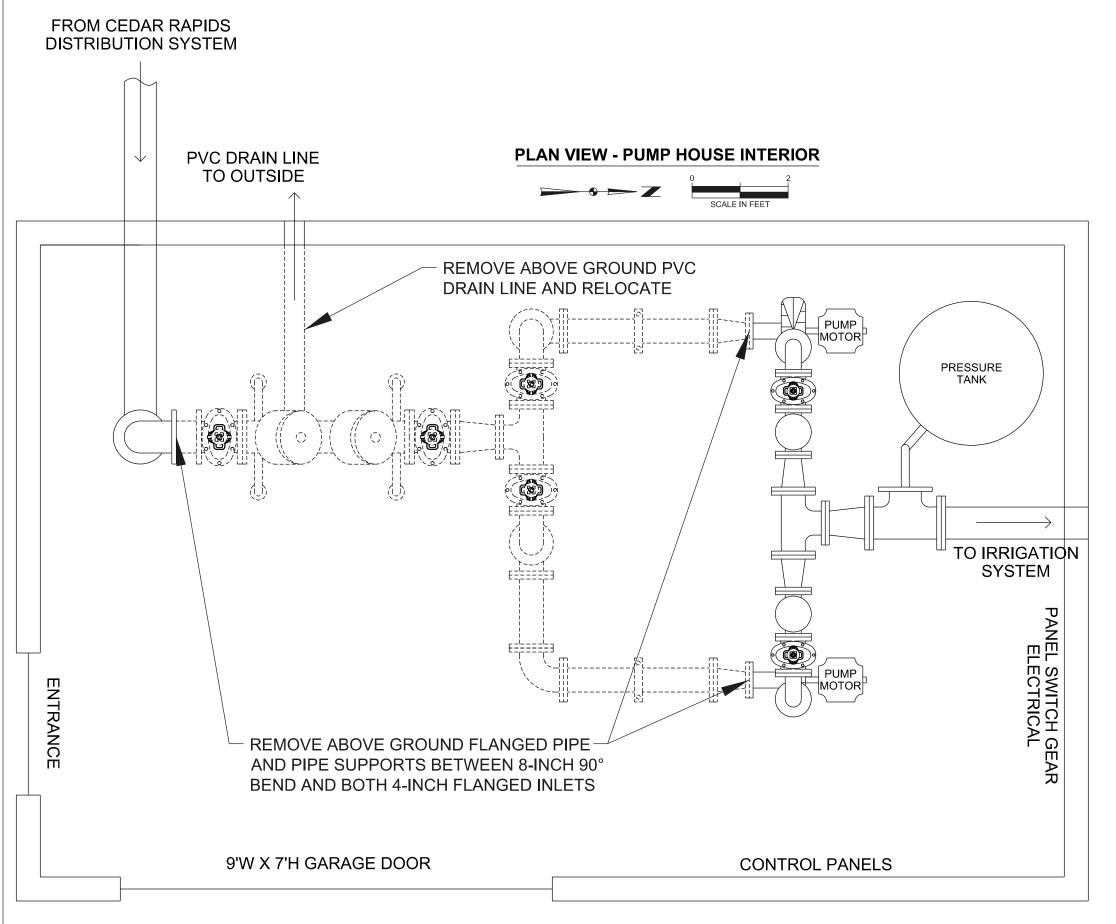


| ITEM NO. | DESCRIPTION | EST. QTY. | UNIT | ESTIMATE REFERENCE INFORMATION |
|----------|---|-----------|------|---|
| 01400-39 | REMOVAL AND RELOCATION OF PVC DRAIN PIPE | 7 | LF | 1. PIPE TO BE SCHEDULE 40 PVC |
| 01400-63 | REMOVAL AND SALVAGE OF EXISITING FLANGED PIPE, FITTINGS, AND VALVES | 1 | LS | 1. ITEMS TO BE SALVAGED AND REUSED IN PROPOSED LAYOUT ARE NOTED ON SHEETS C.1 AND U.1 |
| 02500-02 | RE-INSTALLATION OF SALVAGED FLANGED PIPE, FITTINGS, AND VALVES | 1 | LS | 1. REPLACE ALL REMOVED FLANGE GASKETS AND HARDWARE |
| 02300-02 | INC-INSTALLATION OF SALVAGED FLANGED FIFE, FITTINGS, AND VALVES | | | 2. HARDWARE TO BE 304 STAINLESS STEEL HEX HEAD NUTS/BOLTS |
| | | | 2 EA | 1. RPZ STANDS TO BE SCHEDULE 40 BLACK PIPE |
| | | | | 2. EACH RPZ STAND, TO CONSIST OF: |
| 02500-03 | FURNISH AND INSTALLATION OF 8-INCH RPZ STANDS | 2 | | A. (2) FLOOR FLANGES WITH CONCRETE ANCHORS |
| 02300-03 | FURNISH AND INSTALLATION OF 8-INCH RPZ STANDS | 2 | | B. (2) UPRIGHT PIPES |
| | | | | C. (2) 90° BENDS |
| | | | | D. (1) HORIZONTAL SUPPORT |
| | FURNISH AND INSTALLATION OF 6-INCH VALVE STANDS | 2 | 2 EA | 1. VALVE STANDS TO BE SCHEDULE 40 BLACK PIPE |
| | | | | 2. EACH VALVE STAND, TO CONSIST OF: |
| 02500-04 | | | | A. (1) FLOOR FLANGE ATTACHED WITH CONCRETE ANCHORS |
| | | | | B. (1) UPRIGHT PIPE |
| | | | | C. (1) VALVE SUPPORT |
| | FURNISH AND INSTALLATION OF 4-INCH PIPE CLAMPS | 2 | 2 EA | 1. PIPE CLAMPS TO BE STEEL |
| 02500-05 | | | | 2. TWO-BOLT TYPE |
| | | | | 3. ATTACHED WITH (2) THREADED CONCRETE ANCHORS |
| 02500-22 | INSTALLATION OF 8-INCH STRAINER | 1 | EA | 1. CITY TO SUPPLY 8-INCH STRAINER |
| 02500-23 | INSTALLATION OF 8-INCH METER | 1 | EA | 1. CITY TO SUPPLY 8-INCH METER |
| 02500-32 | FURNISH AND INSTALLATION OF 4-INCH DIAMETER FLANGED SPOOL | 2 | EA | |
| 02500-60 | DISINFECTION AND HYDROSTATIC TESTING | 1 | LS | |

D BY: CITY OF CEDAR RAPIDS UTILITIES - WATER ENGINEERING 1111 SHAVER RD NE, CEDAR RAPIDS, IA 52402 PHONE; 319-286-5950

REVISION DESCRIPTION





REVISION DESCRIPTION

| | | REMOVALS | |] |
|---------|-------------------|----------------------|-----------------|---|
| F | ROM EXISTI | NG 90° BEND TO EXIST | ING TEE | |
| QTY | DIAMETER (IN.) | TYPE | END | |
| 1 | 8 | SILENT CHECK | PBE | |
| 1 | 8 | GATE VALVE | FLG X FLG | * |
| 1 | N/A | RPZ STAND | N/A | |
| 1 | | PVC DRAIN LINE | N/A | |
| 1 | 8 | RPZ ASSEMBLY | FLG X FLG | * |
| 1 | N/A | RPZ STAND | N/A | |
| 1 | 8 | GATE VALVE | FLG X FLG | * |
| 1 | 8 X 6 | ECCENTRIC REDUCER | FLG X FLG | * |
| 1 | 6 | TEE | FLG X FLG X FLG | * |
| | | | | |
| FROM EX | (ISTING TEE | TO EXISTING PUMP IN | ILET (EAST LEG) | |
| QTY | DIAMETER (IN.) | TYPE | END | |
| 1 | 6 | GATE VALVE | FLG X FLG | * |
| 1 | N/A | VALVE STAND | N/A | |
| 1 | 6 | 90° BEND | FLG X FLG | * |
| 1 | 6 | SPOOL | FLG X FLG | * |
| 1 | 6 | 90° BEND | FLG X FLG | * |
| 1 | 6 | SPOOL | FLG X FLG | * |
| 1 | 6 | 90° BEND | FLG X FLG | * |
| 1 | 6 | SPOOL | FLG X FLG | |
| 1 | 6 | PIPE CLAMP | N/A | |
| 1 | 6 X 4 | ECCENTRIC REDUCER | FLG X FLG | * |
| FROM EX | ISTING TEE | TO EXISTING PUMP IN | LET (WEST LEG) | |
| QTY | DIAMETER (IN.) | TYPE | END | |
| 1 | 6 | GATE VALVE | FLG X FLG | * |
| 1 | N/A | VALVE STAND | N/A | |
| 1 | 6 | 90° BEND | FLG X FLG | * |
| 1 | 6 | SPOOL | FLG X FLG | * |
| 1 | 6 | 90° BEND | FLG X FLG | * |
| 1 | 6 | SPOOL | FLG X FLG | |
| 1 | 6 | PIPE CLAMP | N/A | |
| 1 | 6 X 4 | ECCENTRIC REDUCER | FLG X FLG | * |
| | | | | |

PREPARED BY:

CITY OF CEDAR RAPIDS UTILITIES - WATER ENGINEERING 1111 SHAVER RD NE, CEDAR RAPIDS, IA 52402 PHONE: 319-286-5950

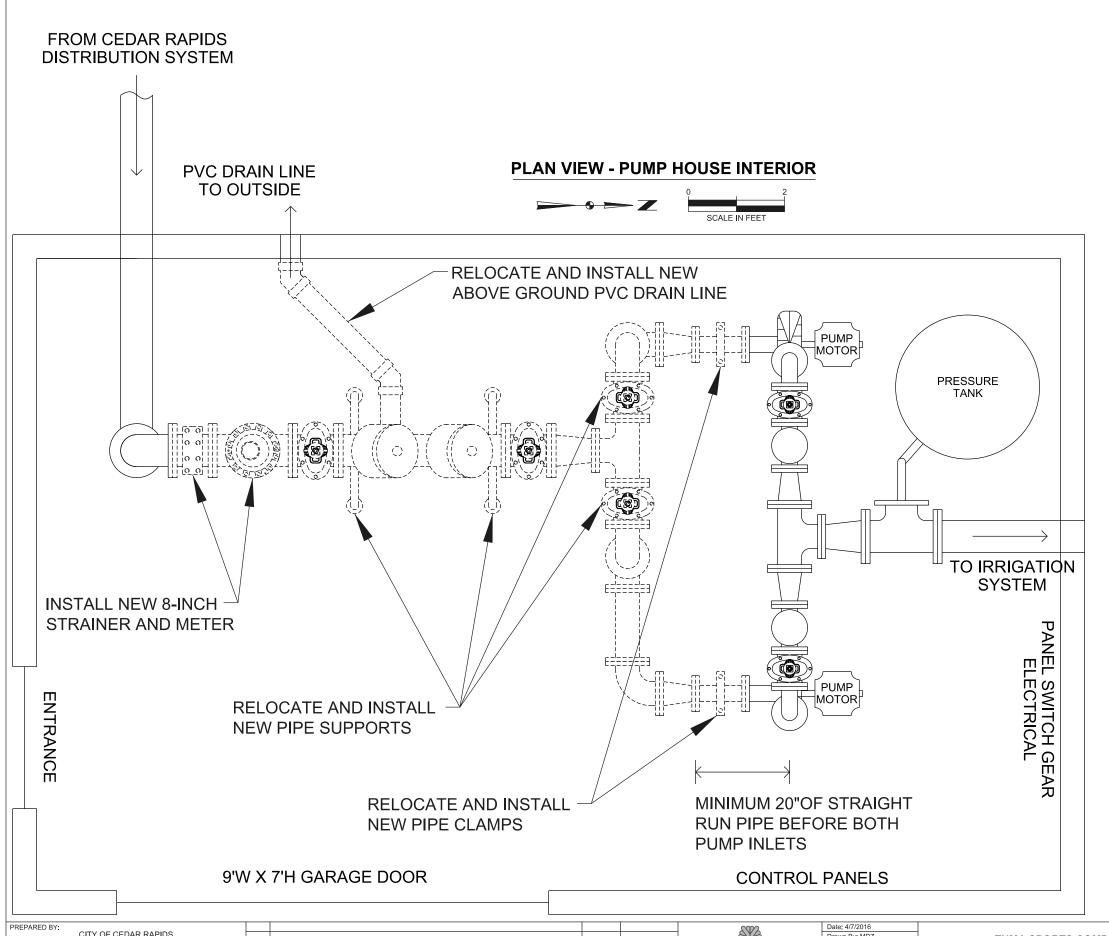


Date: 4/7/2016
Drawn By: MDZ
Approved By: KJR
PROJECT No: 2016087-01

TUMA SPORTS COMPLEX METER INSTALLATION

SHEET No.

EXISTING LAYOUT AND REMOVAL PLAN



REVISION DESCRIPTION

| | | INSTALLS | | 1 |
|---------|---------------------------|---------------------|-----------------|---|
| FR | OM EXISTIN | IG 90° BEND TO PROP | OSED TEE | 1 |
| QTY | DIAMETER (IN.) | TYPE | END | |
| 1 | 8 | STRAINER | FLG X FLG | |
| 1 | 8 | METER | FLG X FLG | • |
| 1 | 8 | GATE VALVE | FLG X FLG | * |
| 1 | N/A | RPZ STAND | N/A | • |
| 1 | 8 | RPZ ASSEMBLY | FLG X FLG | * |
| 1 | N/A | RPZ STAND | N/A | |
| 1 | 8 | GATE VALVE | FLG X FLG | * |
| 1 | 8 X 6 | ECCENTRIC REDUCER | FLG X FLG | * |
| 1 | 6 | TEE | FLG X FLG | * |
| | | | | |
| FROM PR | OPOSED TEI | TO EXISTING PUMP I | NLET (EAST LEG) | |
| QTY | DIAMETER (IN.) | TYPE | END | |
| 1 | 6 | GATE VALVE | FLG X FLG | * |
| 1 | N/A | VALVE STAND | N/A | 1 |
| 1 | 6 | 90° BEND | FLG X FLG | * |
| 1 | 6 | SPOOL | FLG X FLG | * |
| 1 | 6 | 90° BEND | FLG X FLG | * |
| 1 | 6 | SPOOL | FLG X FLG | * |
| 1 | 6 | 90° BEND | FLG X FLG | * |
| 1 | 6 X 4 | ECCENTRIC REDUCER | FLG X FLG | * |
| 1 | 4 | SPOOL | FLG X FLG | |
| 1 | 4 | PIPE CLAMP | N/A | |
| | | | | - |
| FROMPRO | | TO EXISTING PUMP II | NLET (WEST LEG) | - |
| QTY | DIAMETER (IN.) | TYPE | END | |
| 1 | 6 | GATE VALVE | FLG X FLG | * |
| 1 | N/A | VALVE STAND | N/A | |
| 1 | 6 | 90° BEND | FLG X FLG | * |
| 1 | 6 | SPOOL | FLG X FLG | * |
| 1 | 6 | 90° BEND | FLG X FLG | * |
| 1 | 1 6 X 4 ECCENTRIC REDUCER | | FLG X FLG | * |
| 1 | 4 | SPOOL | FLG X FLG | |
| 1 | 4 | PIPE CLAMP | N/A | I |

- 1. * DENOTES ITEM TO BE REUSED FROM EXISTING LAYOUT
- 2. REPLACE ALL EXISTING FLANGE GASKETS AND HARDWARE
- 3. ECCENTRIC REDUCERS TO BE INSTALLED WITH TOP FLAT

CITY OF CEDAR RAPIDS
UTILITIES - WATER ENGINEERING
1111 SHAVER RD NE, CEDAR RAPIDS, IA 52402
PHONE: 319-286-5950

