06-14-2024 LETTING ITEM 086

INDEX OF SHEETS:

COVER SHEET

0

0

0

0

- HIGHWAY STANDARDS, GENERAL NOTES, AND COMMITMENTS
- SUMMARY OF QUANTITIES
- OVERALL SITE PLAN
- STRUCTURAL PROCESS SITE PLAN STRUCTURAL - PROCESS VAULT PLAN
 - **ELECTRICAL INSTRUMENTATION & CONTROL**

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

PROPOSED HIGHWAY PLANS

FAI 064 (I-64) SEC 82-1-I 25TH STREET FLOW METER ST. CLAIR COUNTY



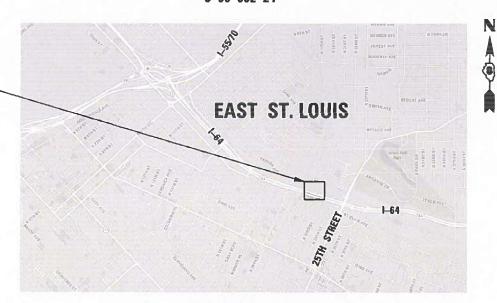
03/01/2024

DATE: EXPIRATION:

03/01/2024

PROJECT LOCATION

LATITUDE: 38°37'23.54"N LONGITUDE: 90°7'38.53"W C-98-052-24



ST. CLAIR COUNTY

LOCATION MAP (NTS)

GROSS LENGTH = N/A NET LENGTH = N/A

DATE: **EXPIRATION:** 11/30/25

SHEET NUMBERS: 1 TO 6

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

OR 811

PROJECT ENGINEER: RICHARD BARBEE SQUAD LEADER: PHILIP SAWYER

CONTRACT NO. 76T47

COUNTY SHEETS NO.

ST. CLAIR 7 1

ILLINOIS CONTRACT NO. 76T47 SECTION 064 82-1-I

D-98-016-24



DONOHUE

230 WEST MONROE STREET, SUITE 2925 CHICAGO, IL 60606 312-236-9147

	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
SU	BMITTED March 19 20 24
	REGIONAL ENGINEER
	May 10, 2024 San E.A. E.K.
	ENGINEER OF DESIGN AND ENVIRONMENT
	May 10, 2024
	DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

STATE HIGHWAY STANDARDS:

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS DECIMAL OF AN INCH AND OF A FOOT 000001-08 001006

280001-07 TEMPORARY EROSION CONTROL SYSTEMS

PARTIAL EXIT RAMP CLOSURE, FREEWAY/EXPRESSWAY

701901-09 TRAFFIC CONTROL DEVICES

GENERAL NOTES:

- 1. NOTE THAT DURING CONSTRUCTION, THE CONTRACTOR SHALL KEEP THE EXISTING GROUNDWATER WELLS OPERATIONAL. SHORT-TERM SHUTDOWN WILL BE PERMITTED WITH SPECIFIC WRITTEN PERMISSION (SEE SPECIAL PROVISIONS AND
- 2. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL TEMPORARY FACILITIES WITH THE FINAL LOCATION OF THE NEW WORK.
- 3. ANY NOTIFICATION TO ANY AGENCY MUST BE MADE THROUGH THE CONSTRUCTION MANAGER. NOTIFICATION SHALL BE MADE TO THE AGENCIES AND UTILITIES AT LEAST 10 DAYS PRIOR TO ANY CONSTRUCTION IN THE AREA AND SHALL COMPLY WITH ALL RESTRICTIONS FOR EQUIPMENT MOVEMENTS AND CLEARANCES IN REGARDS TO THEIR FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF ALL EMERGENCY SERVICES.
- ILLINOIS STATE LAW REQUIRES A 48 HOUR NOTICE BE GIVEN TO UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY.

UTILITIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA:

AMEREN ILLINOIS ELECTRIC CHARTER/SPECTRUM COMM CITY OF EAST ST. LOUIS CLEARWAVE FIBER LLC IL AMERICAN WATER - EAST ST. LOUIS

- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE AT THE CONTRACTORS EXPENSE.
- IDOT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUBCONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSE WORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A S CAREER IN THE HIGHWAY CONSTRUCTION TRADES, GRADUATES ARE WELL TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 681-346-3360 AND/OR THE HCCTP COORDINATOR AT 619-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.
- 7. A FULL SURVEY WAS NOT PERFORMED AND THE PLANS WERE CREATED USING MICROFILM AND FIELD MEASUREMENTS.

COMMITMENTS:

1. NONE THIS CONTRACT

	USEF
DONOHUE	
DONOUS	PLOT
	DI 07

E	

COUNTY

ST. CLAIR

7

CONTRACT NO. 76T47

100% STATE

- 0	CONS	TR.	COI
-----	------	-----	-----

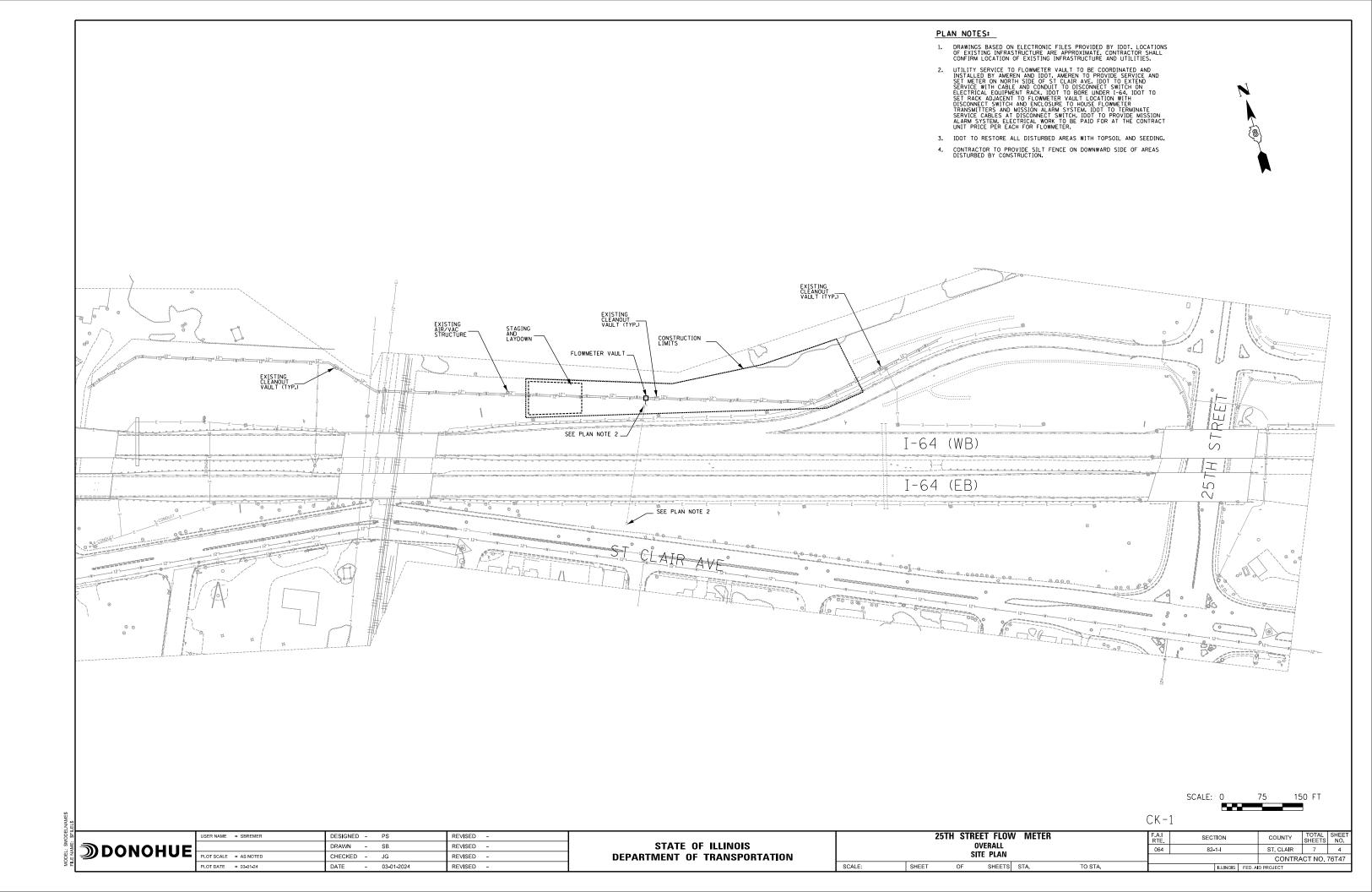
				ST. CLAIR
				ROADWAY
CODE			TOTAL	0044
NO.	ITEM	UNIT	QUANTITY	URBAN
20200100	EARTH EXCAVATION	CU YD	50	50
20800150	TRENCH BACKFILL	CU YD	10	10
28000400	PERIMETER EROSION BARRIER	FOOT	750	750
67100100	MOBILIZATION	L SUM	1	1
70100825	TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	L SUM	1	1
X5610018	FLOW METER	EACH	2	2
x6026629	FORCEMAIN CLEANOUT VAULT	EACH	1	1

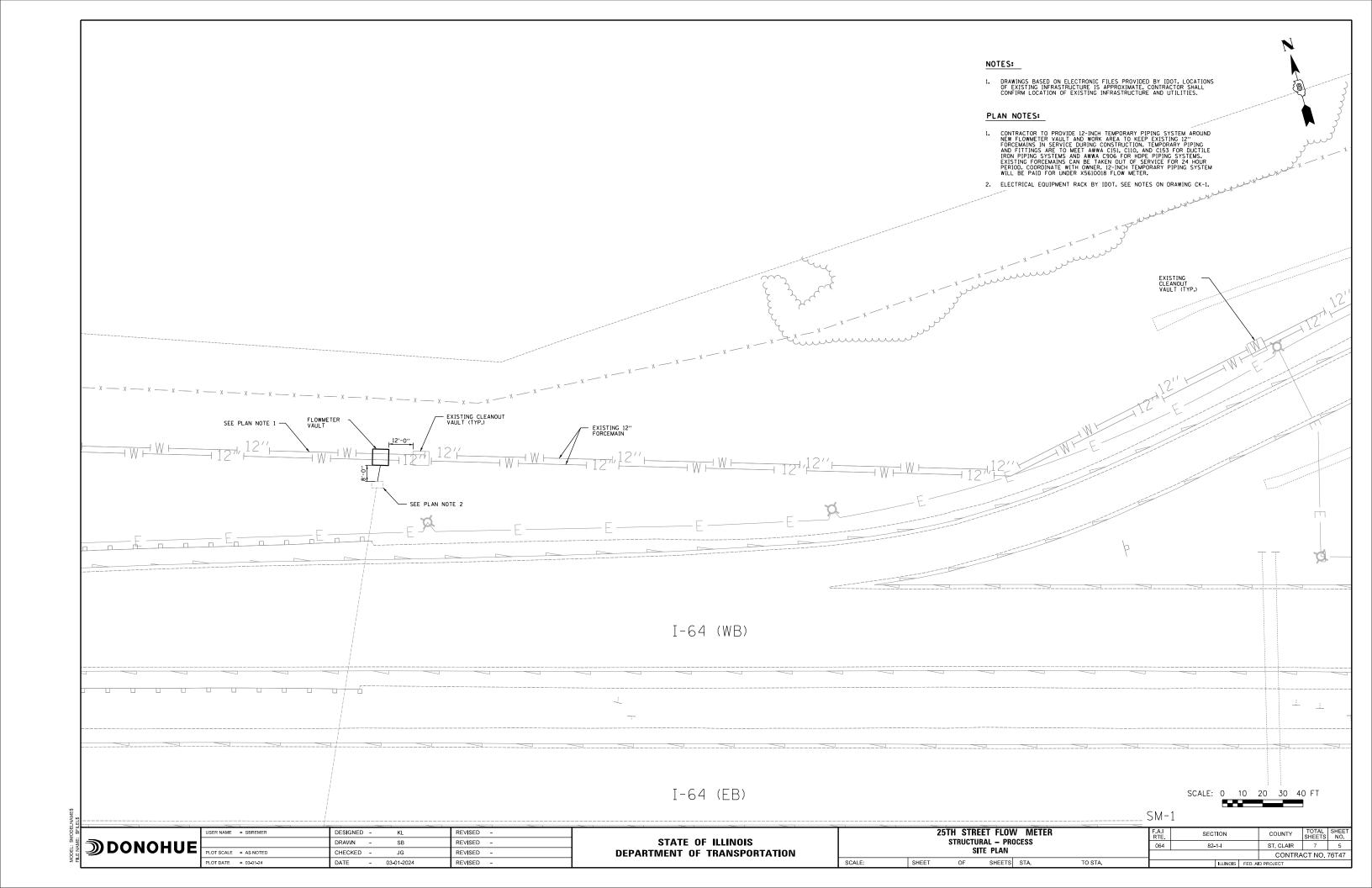
SPECIALTY ITEM

REV. - MS

\$₽		USE
AME:	⋑DONOHUE	
LEN	# DONOHOE	PLC
Ē		PLC

USER NAME = SBREMER	DESIGNED - KL	REVISED -
	DRAWN - SB	REVISED -
PLOT SCALE = AS NOTED	CHECKED - JG	REVISED -
PLOT DATE = 03-01-24	DATE - 03-01-2024	REVISED -



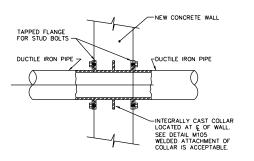




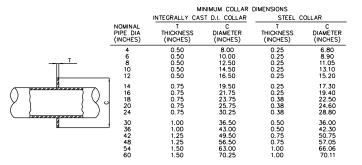
- CONTRACTOR TO PROVIDE SUPPORTS FOR PIPING AND EQUIPMENT, SEE SPECIAL PROVISIONS.
- 5. WALL PENETRATION PER DETAIL MI03

GENERAL NOTES:

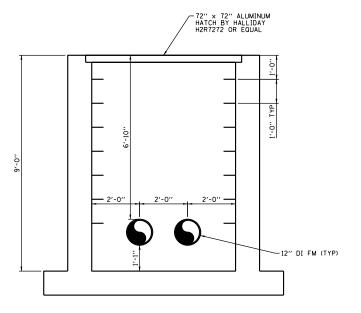
1. PRECAST DESIGNER TO DESIGN STRUCTURE FOR UPLIFT ASSUMING GROUNDWATER AT GRADE.



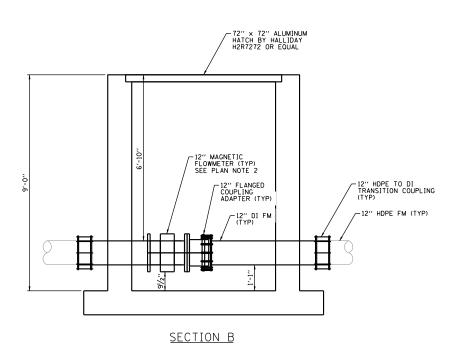
FLG / FLG DUCTILE IRON WALL PIPE DETAIL M103



DUCTILE IRON WALL AND FLOOR TYPE COLLAR DIMENSIONS DETAIL



SECTION A



-12" HDPE TO DI TRANSITION COUPLING (TYP)

-12" HDPE FM (TYP)

_12" DI FM (TYP)

LOWER PLAN

12" MAGNETIC -FLOWMETER (TYP) SEE PLAN NOTE 2

SEE PLAN NOTE 5-

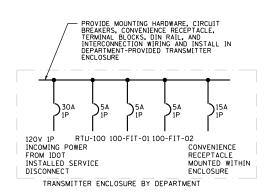
GRADE PLAN

JSER NAME = SBREMER DESIGNED -**DONOHUE** DRAWN CHECKED -

REVISED -SB REVISED -REVISED -DATE REVISED -- 03-01-2024

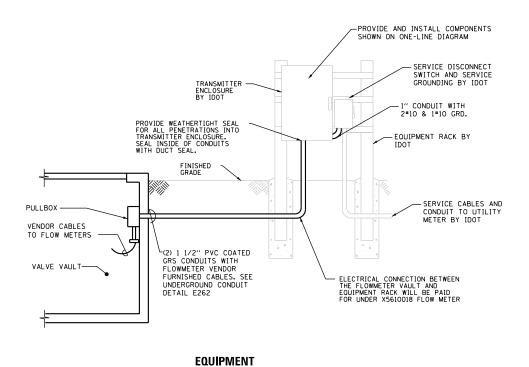
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 25TH STREET FLOW METER STRUCTURAL - PROCESS **VAULT PLAN** OF SHEETS STA. TO STA. SM-2 TOTAL SHEET NO. 7 6 SECTION COUNTY 064 82-1-I ST. CLAIR CONTRACT NO. 76T47

PRECAST FLOWMETER VAULT



ONE-LINE DIAGRAM

NTS



MOUNTING DETAIL

NTS

E061

UNDERGROUND **CONDUIT DETAIL**

NTS

 \bigcirc

24" MIN.

- EARTH BACKFILL

SAND BEDDING

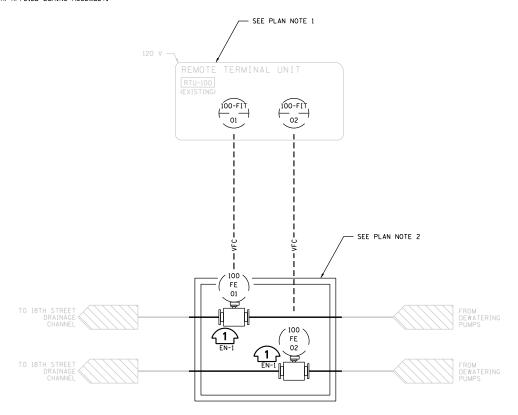
E262

- PVC COATED GRS CONDUIT. UNDERGROUND CONDUIT WILL BE PAID FOR UNDER X5610018 FLOW METER

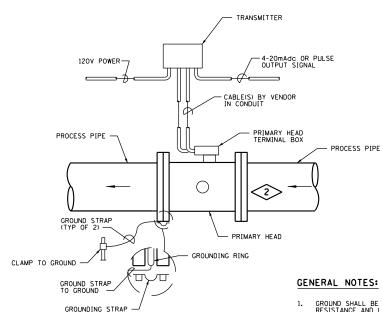
FINISHED GRADE

PLAN NOTES:

- DEPARTMENT-PROVIDED AND INSTALLED EXISTING ENCLOSURE. COORDINATE INSTALLATION OF FLOW TRANSMITTERS WITH THE DEPARTMENT. TRANSMISSION AND INTERROGATION OF SIGNALS AT REMOTE LOCATION IS RESPONSIBILITY OF THE DEPARTMENT.
- ALL FASTENERS INSTALLED BELOW GRADE SHALL BE STAINLESS STEEL AND INCLUDE GENERAL PURPOSE ANTI-SEIZE LUBRICANT (LOCTITE C5-A) APPLIED DURING ASSEMBLY.



FLOWMETER VAULT



- GROUND SHALL BE LESS THAN 0.5 OHM RESISTANCE AND LESS THAN 100 MILLIVOLT WHEN TESTED WITH STANDARD METHODS.
- 2. LENGTH OF COIL DRIVE AND FIELD CURRENT CABLES SHALL NOT EXCEED MAXIMUM LENGTH AS ESTABLISHED BY MANUFACTURER.

ELECTROMAGNETIC FLOWMETER W/REMOTE CONVERTOR/TRANSMITTER EN-1

SCALE:

EN-1

DONOHUE

SER NAME = SBREMER DESIGNED - FM REVISED -DRAWN - SB REVISED -CHECKED -REVISED LOT DATE = 03-01-24 REVISED -DATE - 03-01-2024

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

25TH STREET FLOW METER **ELECTRICAL - INSTRUMENTATION & CONTROL** PLAN TO STA. SHEETS STA.

SECTION COUNTY ST. CLAIR 7 064 82-1-I CONTRACT NO. 76T47 ILLINOIS FED. AID PROJECT