

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	DIST 8 DEEP WELLS 2024-1	ST. CLAIR/MADISON	11	1
* = VARIOUS		ILLINOIS	CONTRACT NO. 76R57	

D-98-100-22

INDEX OF SHEETS

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- 10 LOCATION NOS. 1, 2, 3: TYPICAL WELL DETAILS
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HIGHWAY STANDARDS

- 000001-08
- 001006
- 701400-11
- 701401-13
- 701428-01
- 701601-09
- 701901-08

PROPOSED  
HIGHWAY PLANS

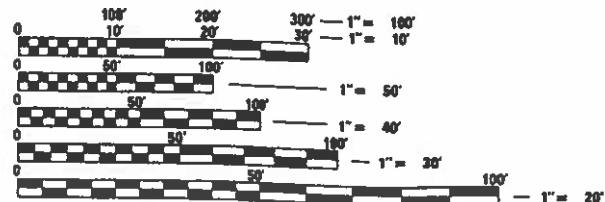
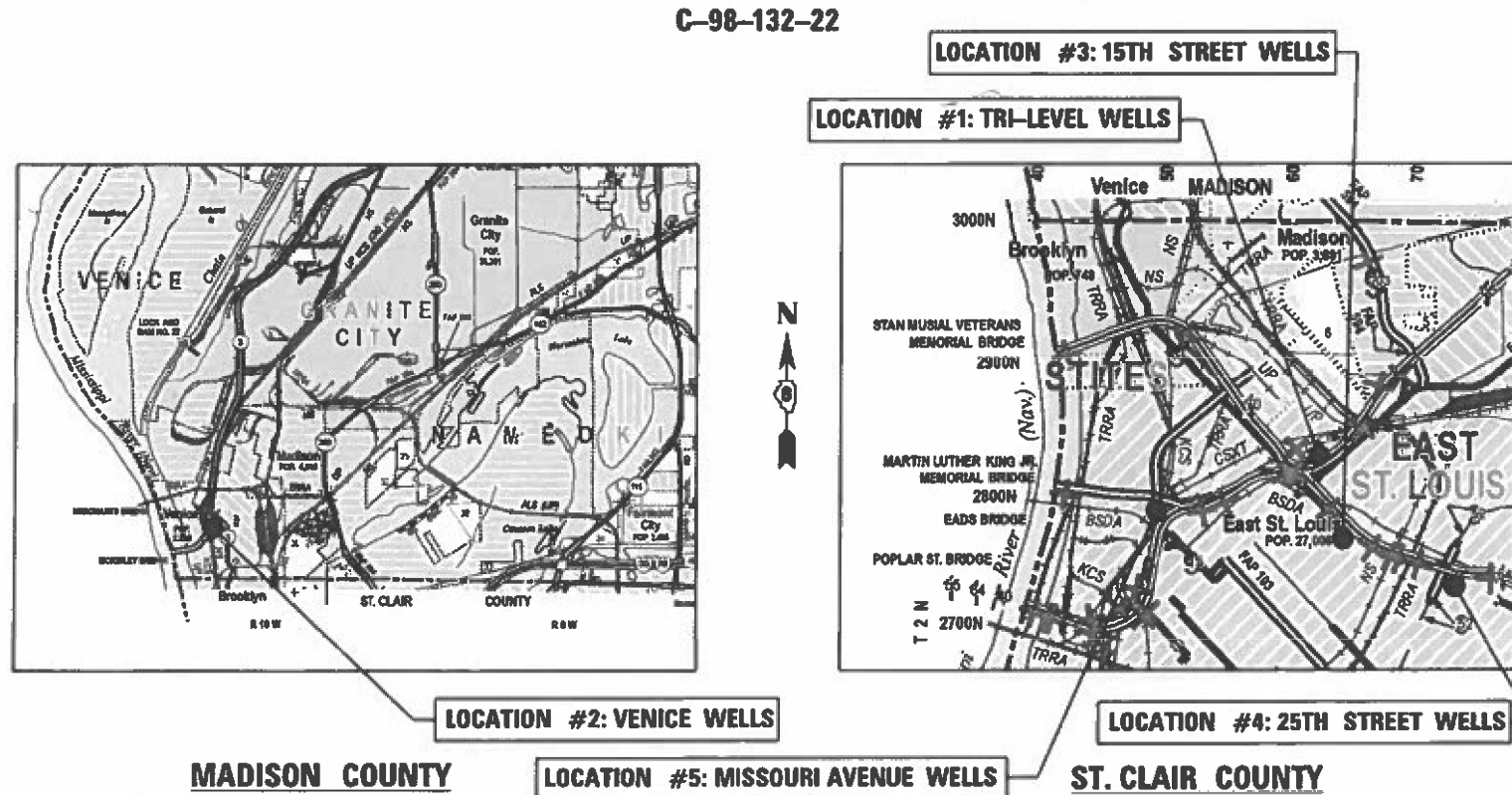
VARIOUS ROUTES  
SECTION DIST 8 DEEP WELLS 2024-1  
WELL TREATMENT  
ST. CLAIR & MADISON COUNTIES



LOCATION OF SECTION INDICATED THUS: - [Symbol] -

PLANS PREPARED BY:  
**KLINGNER & ASSOCIATES, P.C.**

Engineers • Architects • Surveyors  
 616 North 24th Street, Quincy, IL Ph (217)223-3870 - Fax (217)223-3803  
 4510 Pate Gravel Road, Hannibal, MO Ph (573)221-0220 - Fax (573)221-0012  
 610 N. 4th Street, Suite 100, Burlington, IA Ph (319)753-1636 - Fax (319)752-3505  
 48 North Prairie Street, Galesburg, IL Ph (309)342-4042 - Fax (309)341-3781  
 804 Liberty Street, Suite 125, Pella, IA Ph (515)812-7402  
 507 East Ash Street, Columbia, MO Ph (573)365-2888  
 2150 West Main Street, Carbondale, IL Ph (618)331-4050  
 Internet Address: www.klingner.com  
 STATE OF ILLINOIS DESIGN FIRM # 1842738



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.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

PROJECT ENGINEER CHERYL KEPLAR  
PROJECT MANAGER PHILLIP SAWYER

CONTRACT NO. 76R57

**AARON M. SCHAFER**  
062-065354  
REGISTERED PROFESSIONAL ENGINEER  
OF ILLINOIS

5/25/2023  
DATE

AARON M. SCHAFER  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF ILLINOIS NO. 062-065354  
LICENSE EXPIRES NOVEMBER 30, 2023

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED June 30 2023  
Kirk H. Brown  
REGIONAL ENGINEER

August 18, 2023  
SAE A. ETK  
ENGINEER OF DESIGN AND ENVIRONMENT

August 18, 2023  
Stephen M. Smith  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

GENERAL NOTES

1. WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THE LOCATION.
2. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE TO BE GIVEN TO UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. (1-800-892-0123 OR 811) OR FOR NON-MEMBERS THE UTILITY COMPANY DIRECTLY.
3. ALL WELLS REQUIRE SEALING OF MISCELLANEOUS OPENINGS IN THE WELL HEAD TO PREVENT LEAKAGE DURING TREATMENT OPERATIONS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN COST OF THE SPECIFIED TREATMENT METHODS.
4. THE DEPARTMENT RESERVES THE RIGHT TO NOTIFY THE CONTRACTOR TO CHANGE THE SEQUENCE OF WELL CLEANING IF NEEDED TO ENSURE PROPER DEWATERING NEEDS FOR THE DEPARTMENT. THE CONTRACTOR SHALL ALLOW 24 HOURS BETWEEN WELL TREATMENTS. THE CONTRACTOR SHALL INSTALL THE TEMPORARY DISCHARGE PIPES BACK INTO THE WELL DISCHARGE PIPES. ALL DISCHARGE WATER SHALL BE DISCHARGED INTO THE WELL FORCE MAINS.
5. THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS 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 COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A 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 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.

FUNCTIONAL CLASSIFICATION: URBAN MINOR ARTERIAL

LOCATION 1	LOCATION 2
NB/SB: 2020 ADT = 6500	2021 ADT = 7600
S.U.=13.0% M.U.=7.9%	S.U.=8.8% M.U.=5.3%

LOCATION 3	LOCATION 4
WB RAMP: 2020 ADT = 30000	NB/SB: 2020 ADT = 7400
S.U.=2.2% M.U.=7.3%	S.U.=4.1% M.U.=2.9%
EB RAMP: 2020 ADT = 30000	
S.U.=2.2% M.U.=7.3%	

COMMITMENTS  
NONE

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USER NAME = aschaefer	DESIGNED AMS	REVISED -
	DRAWN AMS	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED EBB	REVISED -
PLOT DATE = 4/19/2023	DATE 7/11/2022	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, COMMITMENTS AND ADT

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	DIST 8 DEEP WELLS 2024-1	ST. CLAIR/MADISON	11	2
* VARIOUS			CONTRACT NO. 76R57	
		ILLINOIS	FED. AID PROJECT	

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CODE NO.	ITEM	UNIT	100% STATE TOTAL QUANTITY	CONSTRUCTION CODE					
				LOCATION 1	LOCATION 2	LOCATION 3	LOCATION 4	LOCATION 5	
				TRI-LEVEL	VENICE	15TH STREET	25TH STREET	MISSOURI AVENUE	
				ROADWAY	ROADWAY	ROADWAY	ROADWAY	ROADWAY	
				0044	0044	0044	0044	0044	
				URBAN	URBAN	URBAN	URBAN	URBAN	
67100100	MOBILIZATION	L SUM	1	0.20	0.20	0.20	0.20	0.20	
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	0.5		0.5			
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1		0.5		0.5		
X0300358	ADDITIONAL TREATMENT NO. 1	EACH	10	3	2	2	3		
X0300359	ADDITIONAL TREATMENT NO. 2	EACH	10	3	2	2	3		
X0325850	SONAR-JET TREATMENT	EACH	2	1	1				
X0943700	WELL CHEMICAL TREATMENT	EACH	8	2	1	2	3		
X1200211	DEEP WELL VIDEO INSPECTION	L SUM	1					1	

\* SPECIALTY ITEM

REV. - MS



USER NAME = aschafer	DESIGNED AMS	REVISED -
	DRAWN AMS	REVISED -
P LOT SCALE = 100.0000' / in.	CHECKED EBB	REVISED -
P LOT DATE = 4/19/2023	DATE 7/11/2022	REVISED -

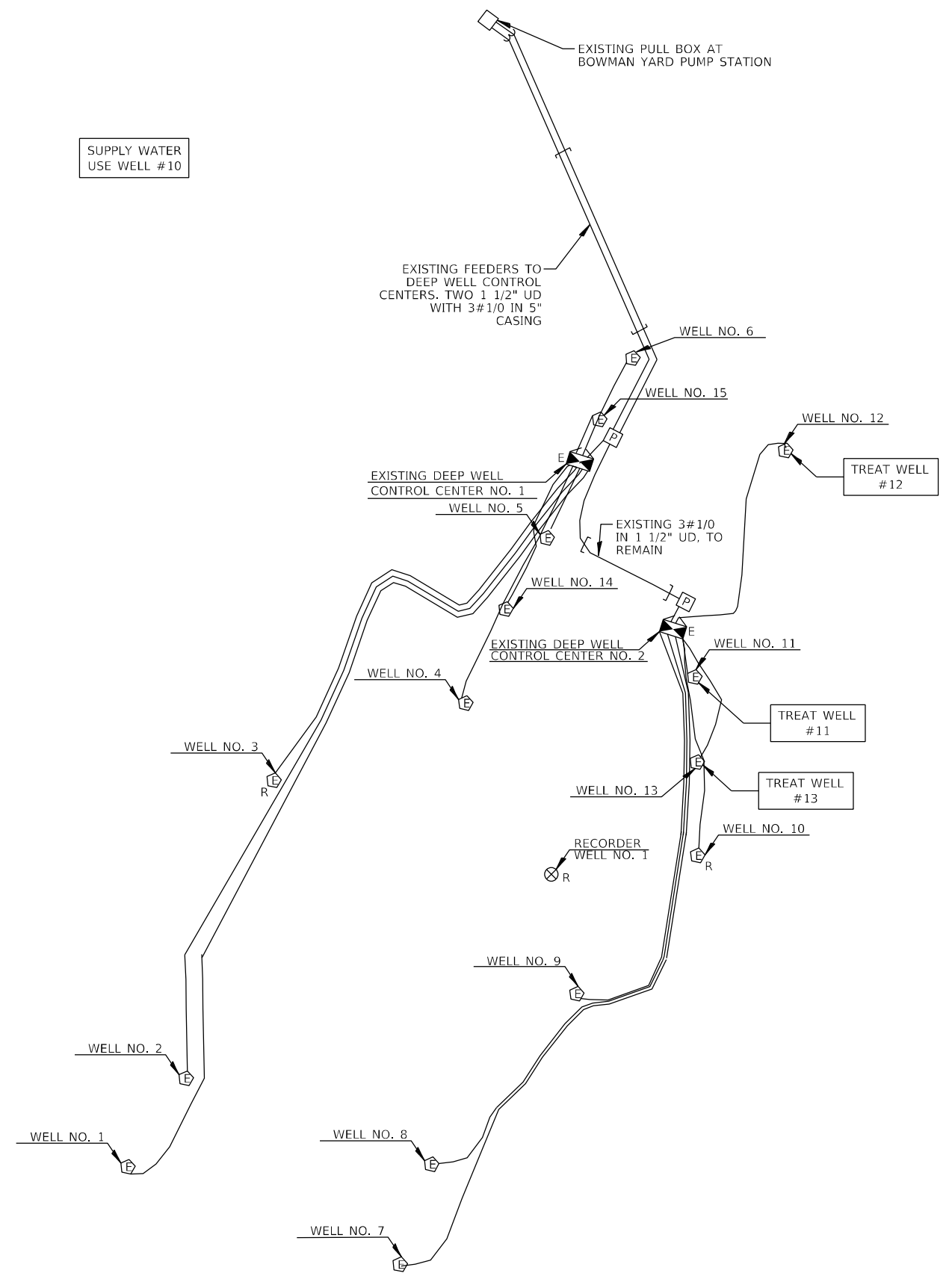
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

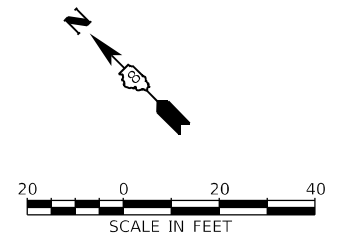
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	DIST 8 DEEP WELLS 2024-1	ST. CLAIR/MADISON	11	3
* VARIOUS			CONTRACT NO. 76R57	
ILLINOIS		FED. AID PROJECT		

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LOCATION	ADDITIONAL TREATMENT NO. 1	ADDITIONAL TREATMENT NO. 2	WELL CHEMICAL TREATMENT	SONAR JET TREATMENT
WELL #11	X	X	X	
WELL #12	X	X	X	
WELL #13	X	X		X



**KLINGNER & ASSOCIATES, P.C.**  
 Engineers • Architects • Surveyors  
 616 N. 24TH ST. QUINCY, ILLINOIS 62301 217.223.3670  
 STATE OF ILLINOIS DESIGN FIRM NO. 164-2738

USER NAME = aschaefer	DESIGNED AMS	REVISED -
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PLOT SCALE = 100,0000' / in.	CHECKED EBB	REVISED -
PLOT DATE = 4/19/2023	DATE 7/11/2022	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

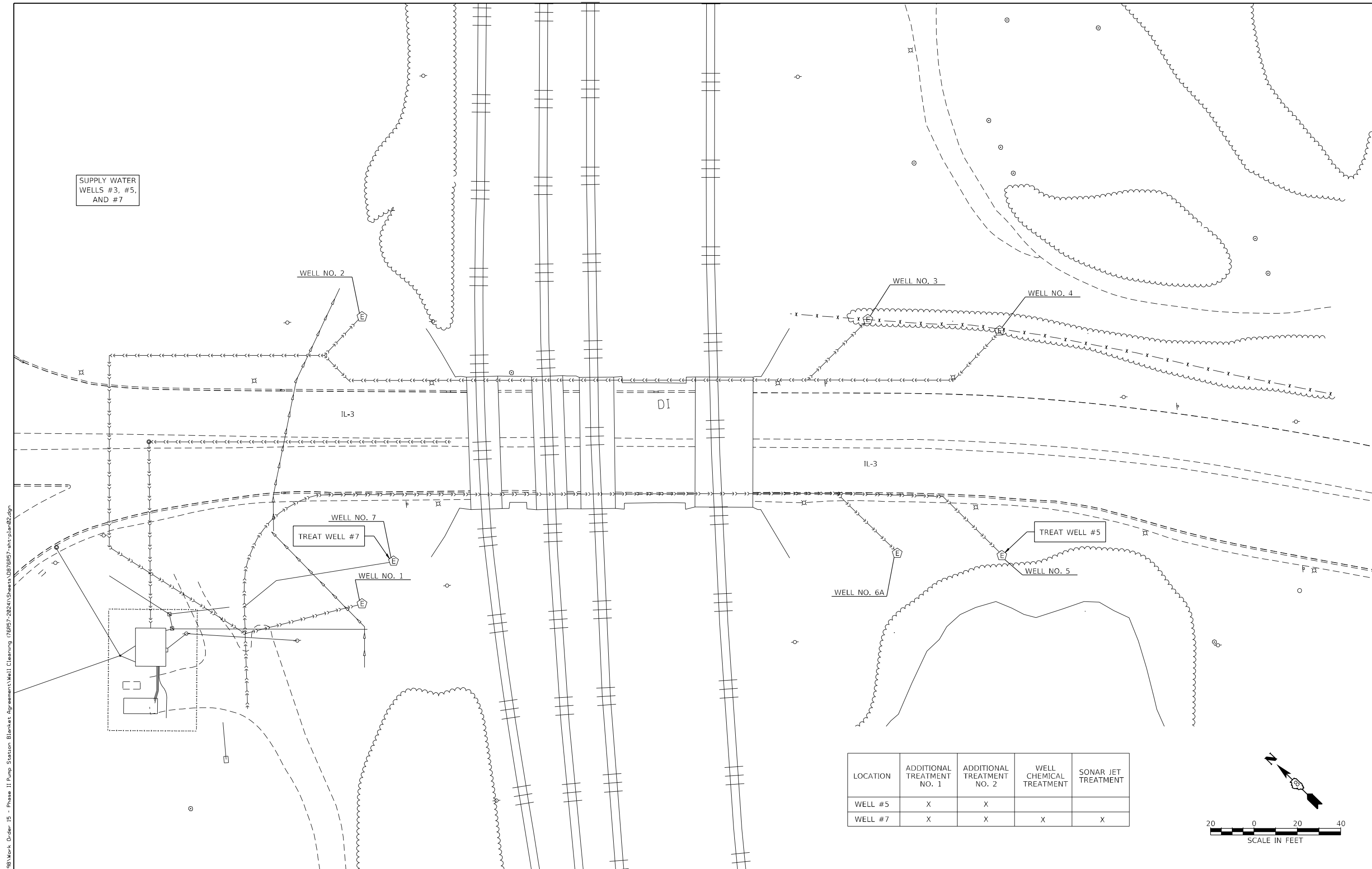
LOCATION NO. 1: SITE PLAN  
 TRI-LEVEL WELLS

SCALE: 1" = 20' SHEET 1 OF 8 SHEETS STA. TO STA.

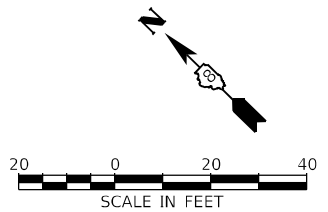
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*	DIST 8 DEEP WELLS 2024-1	ST. CLAIR/MADISON	11	4
* VARIOUS			CONTRACT NO. 76R57	
ILLINOIS		FED. AID PROJECT		



SUPPLY WATER  
WELLS #3, #5,  
AND #7



LOCATION	ADDITIONAL TREATMENT NO. 1	ADDITIONAL TREATMENT NO. 2	WELL CHEMICAL TREATMENT	SONAR JET TREATMENT
WELL #5	X	X		
WELL #7	X	X	X	X



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STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

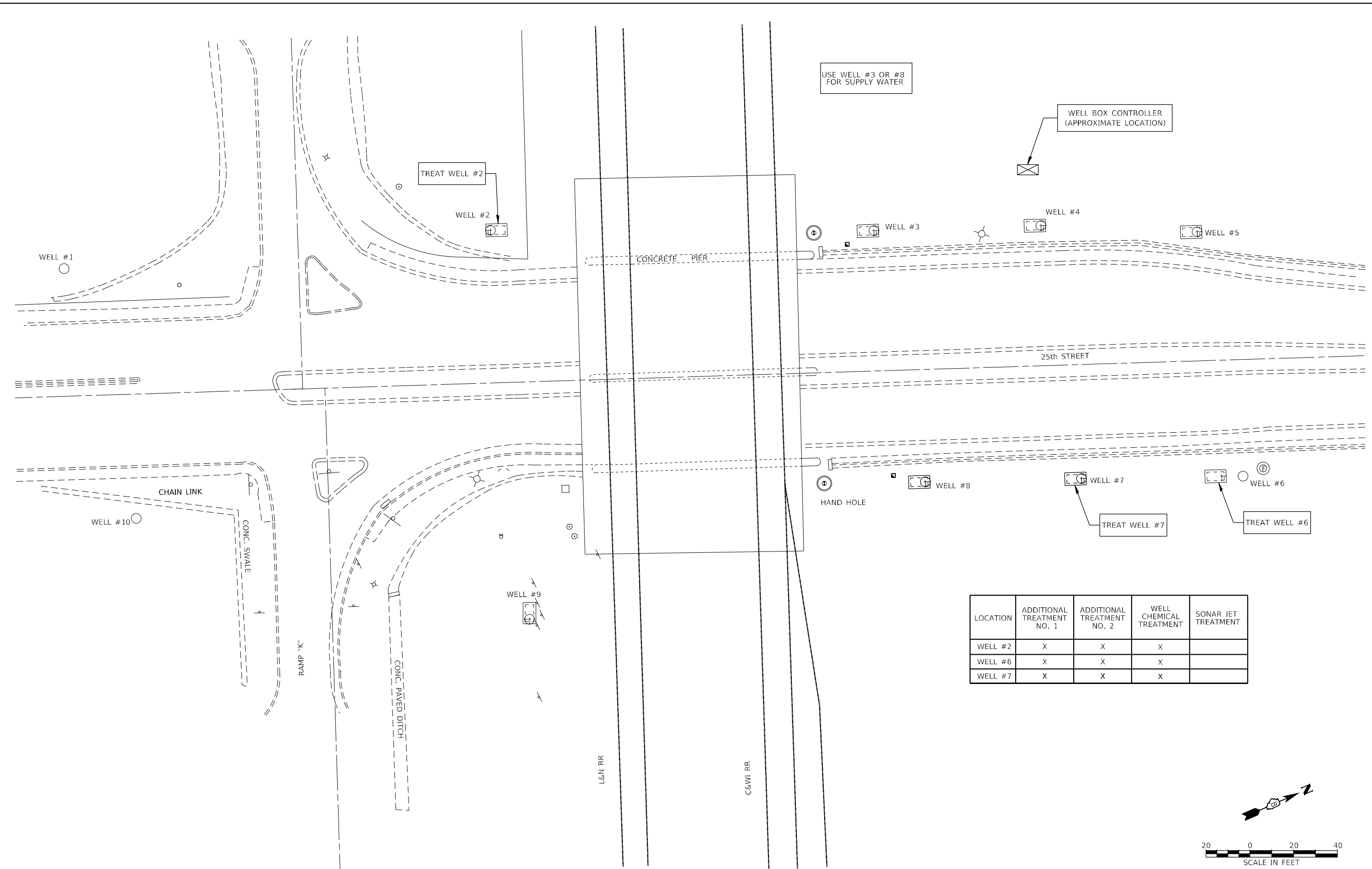
LOCATION NO. 2: SITE PLAN  
VENICE WELLS

SCALE: 1" = 20' SHEET 2 OF 8 SHEETS STA. TO STA.

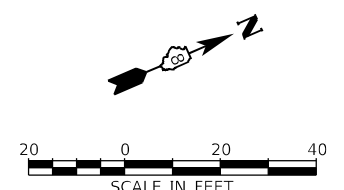
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	DIST 8 DEEP WELLS 2024-1	ST. CLAIR/MADISON	11	5
* VARIOUS			CONTRACT NO. 76R57	
ILLINOIS FED. AID PROJECT				



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LOCATION	ADDITIONAL TREATMENT NO. 1	ADDITIONAL TREATMENT NO. 2	WELL CHEMICAL TREATMENT	SONAR JET TREATMENT
WELL #2	X	X	X	
WELL #6	X	X	X	
WELL #7	X	X	X	



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 DRAWN AMS  
 CHECKED EBB  
 DATE 7/11/2022  
 PLOT SCALE = 100,0000' / in.  
 PLOT DATE = 4/19/2023

REVISED -  
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 REVISED -  
 REVISED -

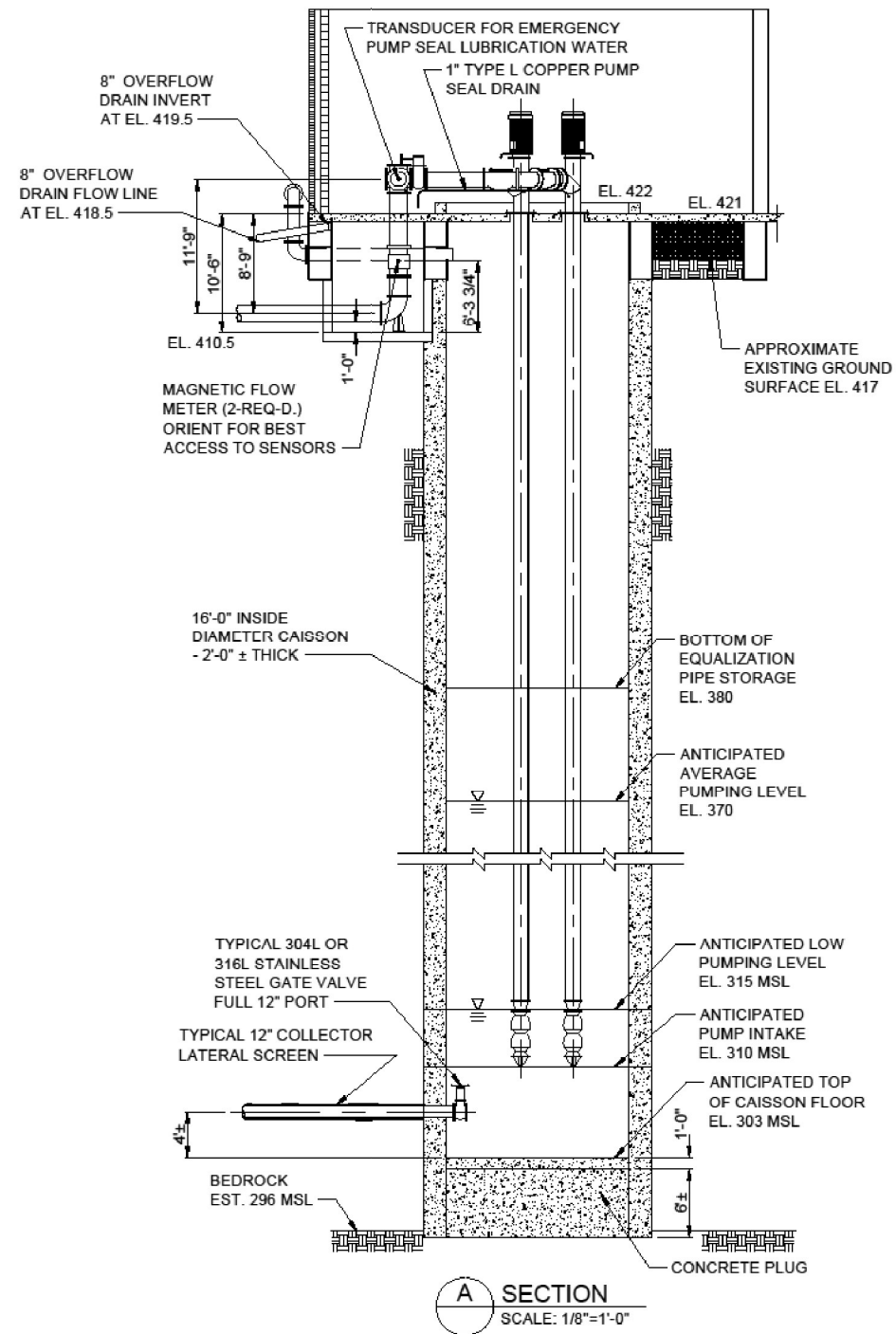
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

LOCATION NO. 4: SITE PLAN  
 25TH ST. WELLS

SCALE: 1" = 20' SHEET 4 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	DIST 8 DEEP WELLS 2024-1	ST. CLAIR/MADISON	11	7
* VARIOUS			CONTRACT NO. 76R57	
ILLINOIS FED. AID PROJECT				





**A SECTION**  
SCALE: 1/8"=1'-0"

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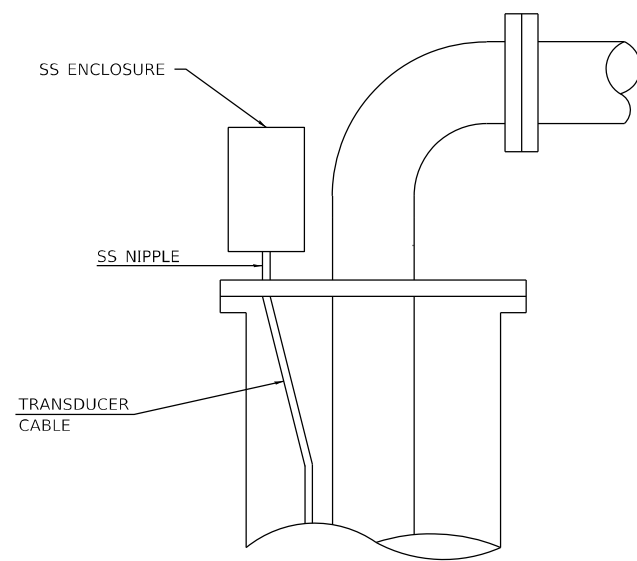
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	DATE 7/11/2022	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

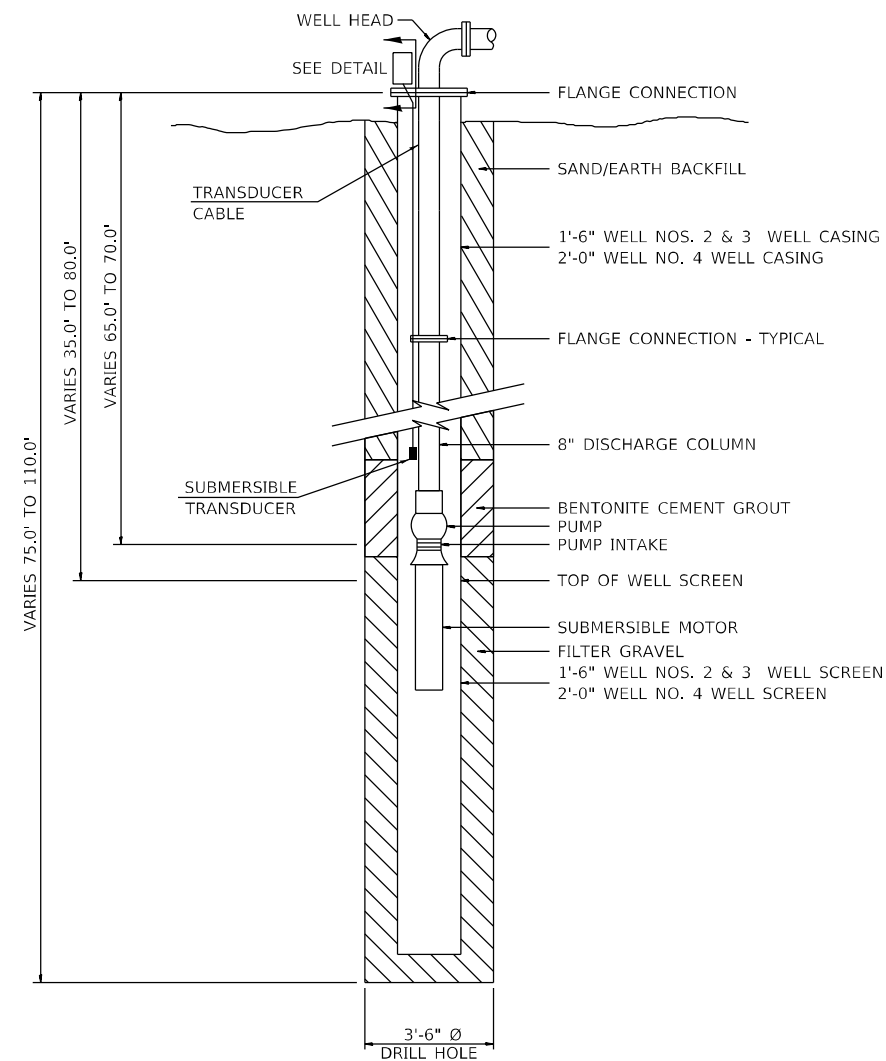
LOCATION NO. 5:  
WELL HOUSE BUILDING - CAISSON DETAILS

SCALE: NONE SHEET 6 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	DIST 8 DEEP WELLS 2024-1	ST. CLAIR/MADISON	11	9
* VARIOUS			CONTRACT NO. 76R57	
		ILLINOIS	FED. AID PROJECT	



WELL HEAD DETAIL



EXISTING

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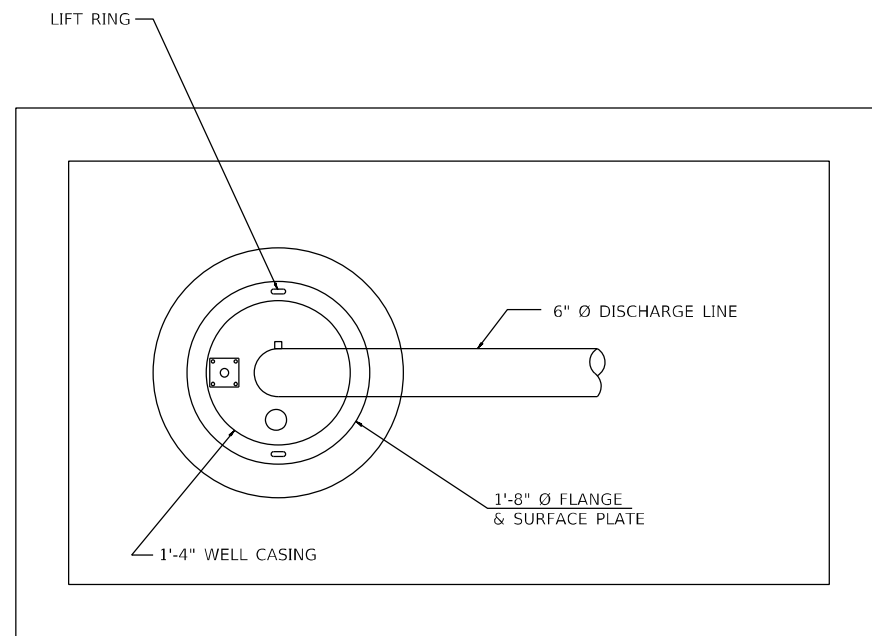
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

LOCATIONS NOS. 1, 2, 3:  
 TYPICAL WELL DETAILS

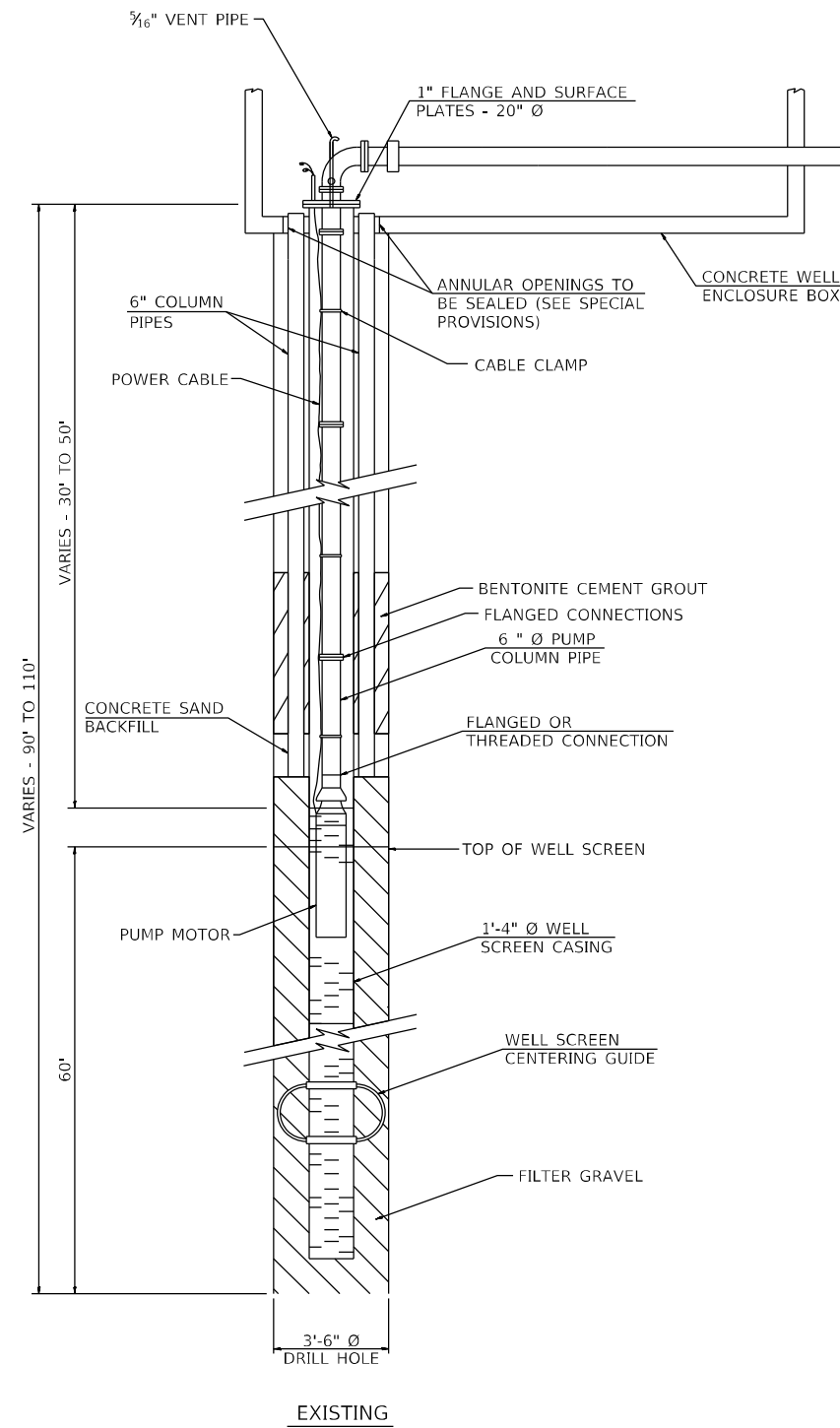
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	DIST 8 DEEP WELLS 2024-1	ST. CLAIR/MADISON	11	10
* VARIOUS			CONTRACT NO. 76R57	
ILLINOIS			FED. AID PROJECT	

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WELL HEAD DETAIL



EXISTING