STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP ROUTE 788 (IL 3) SECTION 27T-9

PUMP STATION IMPROVEMENTS MADISON COUNTY

C-98-011-13

RIOW RECHANG DRIDOR RECHANG

GROSS LENGTH = NANET LENGTH = NA

PLANS PREPARED 5Y: KLINGNER

Engineers - Architects - Surveyors

616 North 24th Street, Outrop, IL
| 510 Peris Crowl Road, Hornfield, MO
| 510 N. 4th Street, Sold Sold Hornfield, MO
| 510 N. 4th Street, Sold 500, Burleyon, IA
| 514 South Prish Street, Soldbolug I.
| bitternet Address's
| STATE OF ILL NOIS DESIGN FIRM # 1842/38

REGISTERED PROFESSIONAL ENGINEER STATE OF ILLINOIS NO. 062-063295 LICENSE EXPIRES NOVEMBER 30. 2019

062.063295 REGISTERED

PROFESSIONAL

D-98-012-13



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED

DEPUT DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER

20

ENGINEER OF DESIGN AND ENVIRONMENT

20

DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- 1 COVER SHEET 2 GENERAL NOTES
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- 7 PROPOSED ELECTRICAL PLAN
- -9 ONE-LINE DIAGRAMS
- 10 CONTROLS DIAGRAM

HIGHWAY STANDARDS

000001-05 664001-02 830026

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000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

664001-02 CHAIN LINK FENCE

TEMPORARY ROADWAY LIGHTING

0 100' 200' 360' — 1"= 100'
0 100' — 1"= 10'
0 50' 100' — 1"= 50'
0 50' 100' — 1"= 40'
0 50' 100' — 1"= 30'
0 50' 100' — 1"= 20

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: PATTI LEBEAU 618-346-3179
PROJECT MANAGER: PHILLIP SAWYER 618-346-3275
SQUAD LEADER: MICHAEL PRESTON 618-346-3143

CONTRACT NO. 76G12

GENERAL NOTES

- 1. THE STANDARDS AND REVISION NUMBERS SHALL APPLY TO THIS PROJECT.
- 2. CONTRACTOR SHALL FIELD VERIFY ALL CABLE LENGTHS BEFORE ORDERING EQUIPMENT AND MATERIALS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE OPERATION OF THE PUMP STATION AND KEEPING WATER OFF OF THE PROTECTED PAVEMENT DURING CONSTRUCTION. THIS WORK SHALL NOT BE PAID FOR SEPERATELY BUT SHALL BE INCLUDED IN THE PUMP STATION ELECTRICAL WORK PAY ITEM.
- 4. THE CONTRACTOR SHALL HAVE A 150 KW GENERATOR ON SITE TO PROVIDE POWER FOR ONE OF THE WELLS DURING THE POWER OUTAGE FROM THE MCC SWITCHOVER. SEE SHEET *8 FOR ELECTRICAL SWITCHOVER NOTES.
- 5. THE CONTRACTOR SHALL SECURE ANY LOCAL, STATE, COUNTY PERMITS NEEDED FOR THIS PROJECT.
- 6. THE CONTRACTOR SHALL FOLLOW ALL NEC AND LOCAL ELECTRICAL CODES FOR ALL CONDUIT AND ELECTRICAL WIRES.
- 7. THE CONTRACTOR SHALL REMOVE ANY SEDIMENT/DEBRIS IN THE WET WELL PRIOR TO CONSTRUCTION ACTIVITIES. AT 6 MONTH INTERVALS, AND THE END OF CONSTRUCTION ACTIVITIES.
- 8. AN OPEN HOUSE FOR ALL CONTRACTORS TO VIEW THE PUMP STATION WILL BE HELD PER THE BULLETIN NOTICE.
- THE CONTRACTOR WILL NOT PERFORM ANY EXCAVATION WORK. ALL REQUIRED EXCAVATION TO BE PERFORMED BY DISTRICT 8 STAFF. ALL EXCAVATION SHALL BE COORDINATED THROUGH THE RESIDENT ENGINEER.
- 10. UTILITIES LOCATIONS / INFORMATION ON PLANS

ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE TO BE GIVEN TO UTILITIES BEFORE DIGGING, FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING JULLIE, OFR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

- AMEREN ILLINOIS (GAS & ELECTRIC)

 AT&T ILLINOIS (COMMUNICATIONS)

 CHARTER COMMUNICATIONS (CABLE TV)

 CLEARWAYE COMMUNICATIONS (COMMUNICATIONS)

 CONSOLIDATED COMMUNICATIONS (COMMUNICATIONS)

 ENABLE MISSISSIPPI RIVER TRANSMISSION (PIPELINE)

 ILLINOIS AMERICAN WATER CO. (WATER)

 LACLEDE PIPELINE COMPANY (PIPELINE)

 LEVEL 3 COMMUNICATIONS (COMMUNICATIONS)

 SHO-ME TECHNOLOGIES (COMMUNICATIONS)

 OWEST SOLUTIONS CENTER (COMMUNICATIONS)

 SPRINT/EXTEL (COMMUNICATIONS)

 YERIZON BUSINESS (COMMUNICATIONS)

 ZAYO FIBER SOLUTIONS (COMMUNICATIONS)

 CITY OF VENICE (SANITARY SEWER)

(MEMBERS OF J.U.L.I.E. (800) 892-0123 ARE INDICATED BY . NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED DIRECTLY.)

- 11. ALL MATERIALS THAT ARE TO BE SALVAGED SHALL BE THE PROPERTY OF THE STATE OF ILLINOIS AND DELIVERED BY THE CONTRACTOR TO: BOWMAN AVENUE PUMP STATION 728 EXCHANGE AVE. EAST ST. LOUIS, IL CONTACT PETE SAWYER AT (618) 304-2082 TO SCHEDULE DELIVERY
- 12. THE DEPARTMENT RESERVES THE RIGHT TO NOTIFY THE CONTRACTOR TO CHANGE THE CONSTRUCTION SCHEDULE IF NEEDED TO ENSURE PROPER DEWATERING NEEDS FOR THE DEPARTMENT.

FILE !	NAME =	USER NAME & seb	DESIGNED -	SEB	REVISED - 5-4-15		GENERAL NOTES					F.A.P. RTÉ.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
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ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

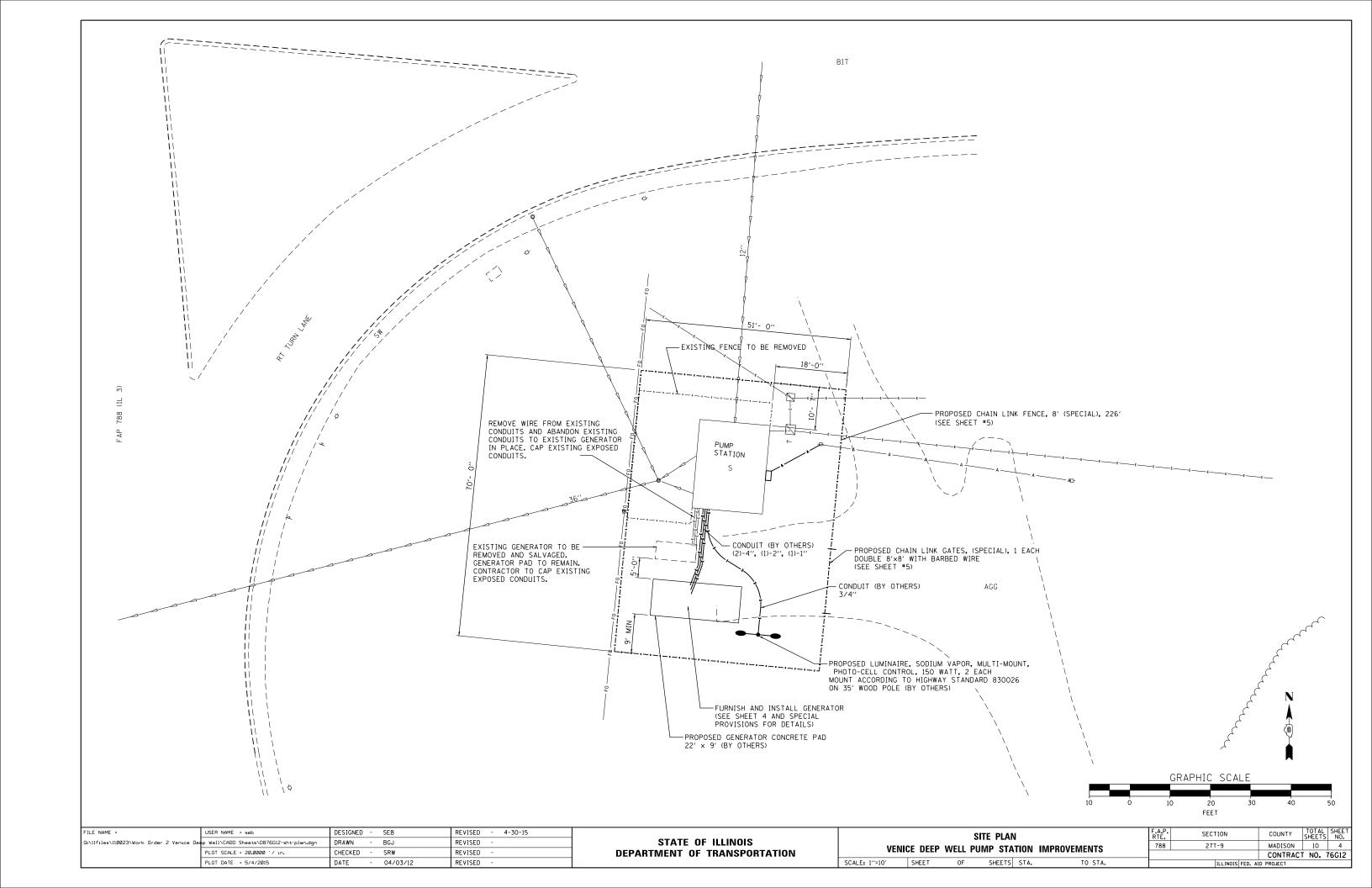
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67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12	
67100100	MOBILIZATION	L SUM	1	1	
82104150	LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, PHOTO-CELL CONTROL, 150 WATT	EACH	2	2	
X0783300	PUMP STATION ELECTRICAL WORK	L SUM	1	1	
X6640308	CHAIN LINK GATES (SPECIAL)	EACH	1	1	
X6640570	CHAIN LINK FENCE, 8' (SPECIAL)	FOOT	226	226	
Z0022800	FENCE REMOVAL	FOOT	90	90	111111111111111111111111111111111111111
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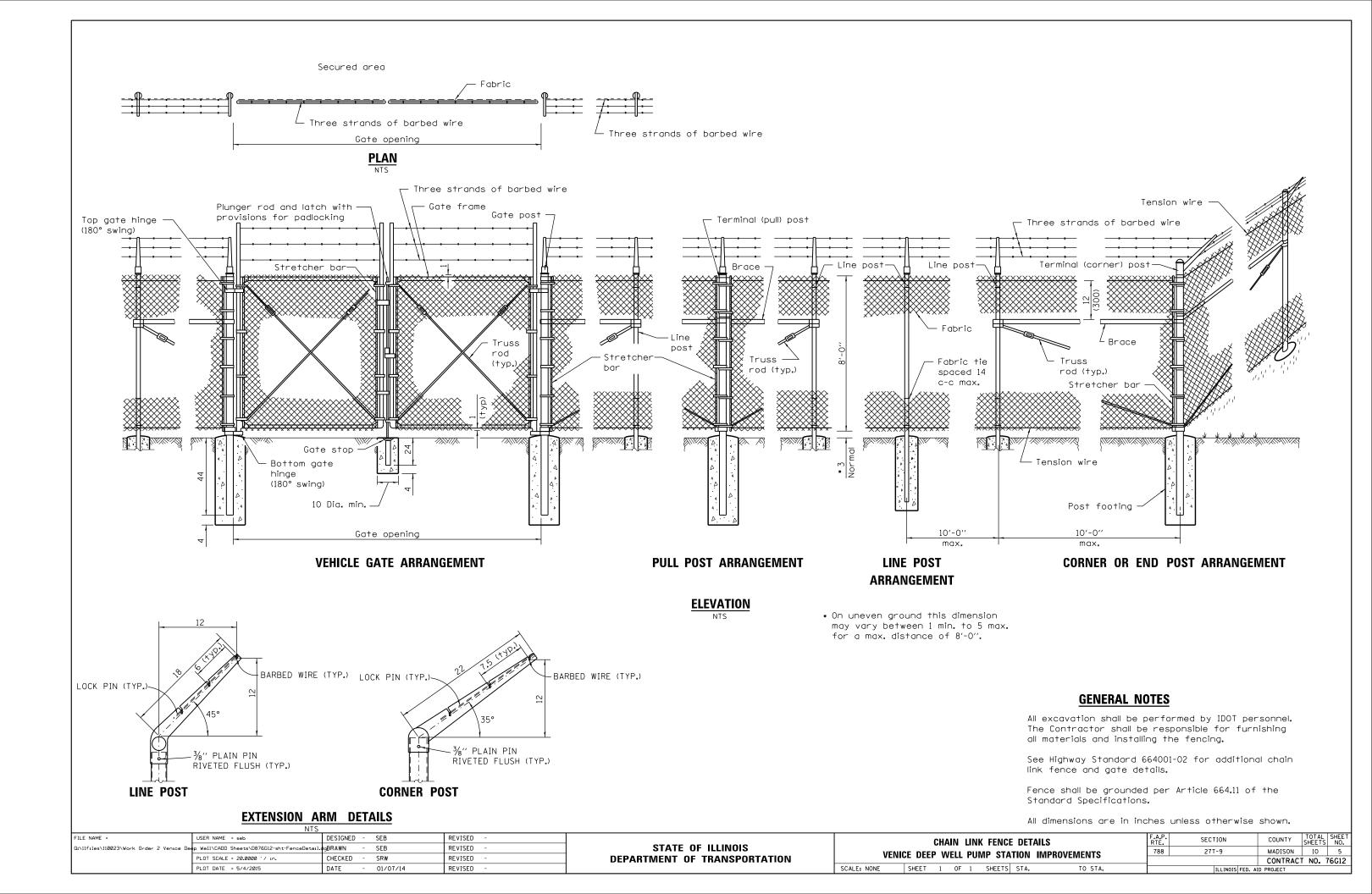
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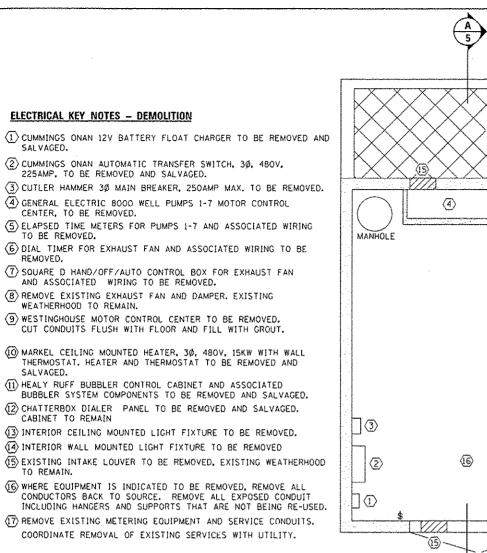
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

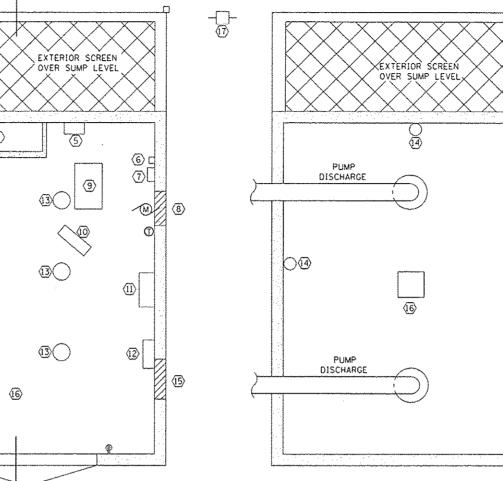
		IES						
	VENICE	DEEP	WELL	PUMP	STAT	TION	IMPROVEM	ENTS
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	271-9	MADISON	10	3
		CONTRAC	" NO. "	/6G12
	ILLINOIS FED. AL	O PROJECT		***************************************









(8) EXISTING METAL LOUVER -4 (9) (11) CONTROL LEVEL EL=408.00 **INTERMEDIATE** LEVEL EL=396.42 INFLOW STORM WATER STORM WATER PUMP PUMP EXISTING BUBBLER SYSTEM

> SECTION SCALE: 1/4" = 1'-0"

PUMP STATION DEMOLITION ELECTRICAL PLAN - CONTROL LEVEL

ELECTRICAL KEY NOTES - DEMOLITION

CENTER. TO BE REMOVED.

WEATHERHOOD TO REMAIN.

TO BE REMOVED.

REMOVED.

SALVAGED.

CABINET TO REMAIN

FOR LOCATION SEE SITE PLAN

(2) CUMMINGS ONAN AUTOMATIC TRANSFER SWITCH, 30, 480V, 225AMP, TO BE REMOVED AND SALVAGED.

(4) GENERAL ELECTRIC 8000 WELL PUMPS 1-7 MOTOR CONTROL

TSOUARE D HAND/OFF/AUTO CONTROL BOX FOR EXHAUST FAN

(9) WESTINGHOUSE MOTOR CONTROL CENTER TO BE REMOVED. CUT CONDUITS FLUSH WITH FLOOR AND FILL WITH GROUT.

(I) HEALY RUFF BUBBLER CONTROL CABINET AND ASSOCIATED

(3) INTERIOR CEILING MOUNTED LIGHT FIXTURE TO BE REMOVED.

COORDINATE REMOVAL OF EXISTING SERVICES WITH UTILITY.

(4) INTERIOR WALL MOUNTED LIGHT FIXTURE TO BE REMOVED

AND ASSOCIATED WIRING TO BE REMOVED. (B) REMOVE EXISTING EXHAUST FAN AND DAMPER, EXISTING

SCALE: 3/8" = 1'-0"



ELECTRICAL SYMBOLS											
EXISTING	TYPE/COMMENT	PROPOSED									
\$	LIGHT SWITCH	\$									
⊕≖ GFCI	GROUND FAULT CIRCUIT INTERRUPTER	GFCI									
₩.	WEATHER PROOF RECEPTACLE OUTLET	\$									
X-##	CIRCUITING NOTATION: X DENOTES PANEL AND ## DENOTES CIRCUIT NUMBER.	X-##									
)	DENOTES CIRCUITING FOR STANDARD ELECTRICAL DEVICES.										
(®)	MOTOR LOAD	√® ∕									

EXISTING

GENERATOR

480v. 3Ø. 3W

TO BE REMOVED AND SALVAGED

ELECTRICAL NOTES:

- 1. ALL CONDUIT MOUNTED TO WALL WITH 5/8" METAL FRAMING TO PROVIDE AIR SPACE BETWEEN WALL AND CONDUIT.
- 2. MINIMUM WIRE SIZE *12 AWG UNLESS NOTED.

PUMP STATION DEMOLITION

SCALE: 3/8" = 1'-0"

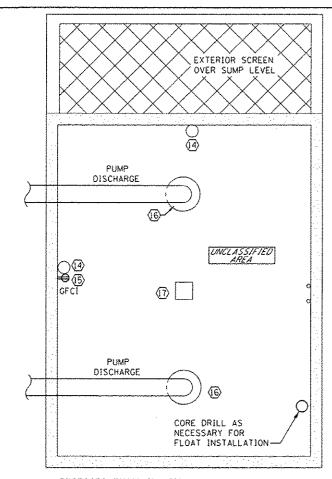
ELECTRICAL PLAN - INTERMEDIATE LEVEL

- 3. DRAWINGS ARE SCHEMATIC AND SHOW APPROXIMATE LOCATIONS OF ELECTRICAL EQUIPMENT. EXACT LOCATIONS SHALL BE COORDINATED BY THE CONTRACTOR AND VERIFIED IN THE FIELD PRIOR TO ROUGH-IN.
- 4. INSTALLATION OF ELECTRICAL DEVICES SHALL BE COORDINATED WITH OTHER TRADES AS NECESSARY TO PREVENT ANY CONFLICTS DURING

ELECTRICAL NOTES (CONT):

- 5. INSTALLATIONS WHICH INCLUDE ELECTRICAL FIXTURES, DEVICES. CONDUIT, SWITCHES, PANELS, HANGERS, WIRE, CABLE, STANDARDS, ETC., MUST BE ENTIRELY SUITABLE FOR TEMPERATURES, HUMIDITY, DAMP AREAS. VOLTAGE, FREQUENCY. AND ALL INSTALLATION CONDITIONS ENCOUNTERED.
- 6. INSTALLATION MUST BE ENTIRELY SAFE IN EVERY RESPECT, AND MUST NOT CREATE ANY CONDITIONS OF ANY KIND WHICH WILL BE HARMFUL TO ANY OCCUPANT OF THE BUILDING. IF CONTRACTOR BELIEVES THAT INSTALLATION WILL NOT BE SAFE FOR ALL PEOPLE, HE/SHE SHALL SO REPORT IN WRITING TO ENGINEER BEFORE ANY EQUIPMENT IS PURCHASED OR WORK IS INSTALLED, GIVING EXACT RECOMMENDATIONS. AND REASONS FOR THEM.
- 7. GROUNDING: ALL GROUNDING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC).
- EQUIPMENT GROUNDING CONDUCTORS SHALL BE PULLED WITH ALL BRANCH CIRCUITS, CONDUIT SHALL NOT BE USED AS A GROUND UNLESS NOTED OTHERWISE.
- ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS, ACCESSORIES, TOOLS, EQUIPMENT, TRANSPORTATION, LABOR, SERVICES AND OPERATIONS NECESSARY FOR A COMPLETE ELECTRICAL SYSTEM.
- 10. ELECTRICAL CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND ARRANGE FOR ALL INSPECTIONS REQUIRED BY STATE OR LOCAL AUTHORITIES.
- 11. MATERIALS MUST BE NEW, IN FIRST CLASS CONDITION,
 12. CONDUIT SHALL BE SEPARATELY HUNG AND ANCHORED, FREE TO EXPAND AND CONTRACT QUIETLY, WITHOUT IMPOSING STRAINS ON STRUCTURE. DEVICES, AND EQUIPMENT, CONDUIT SHALL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES.
- 13. WET WELL IS CLASSIFIED AS A CLASS 1. DIVISION 1 LOCATION.

FILE NAME 2	USER NAME # set	DESIGNED -	KAE, RMV. JJN	REVISED - 5-4-15		DEMOLITION ELECTRICAL PLAN	F.A.P SE	ECTION	COUNTY C	OTAL SHEET
O:\lifiles\li@823\Work Order 2 Venice De-	p Well\CAGO Sheets\D876G12-sht-ElecGemo.dg	DRAWN -	BGJ	REVISED - 5-11-15 JJN	STATE OF ILLINOIS		790 2	277-0	MADISON	HEE IS NO.
	PLOT SCALE . 514 '1' / In.	CHECKED -	SRW	REVISED -	DEPARTMENT OF TRANSPORTATION	VENICE DEEP WELL PUMP STATION IMPROVEMENTS		21179	CONTRACT :	NO 76C12
	PLOT DATE . 5/11/2015	DATE -	04/03/12	REVISED -		SCALE: AS NOTED SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AID	PROJECT	102 70012



PROPOSED PUMP STATION

ELECTRICAL PLAN - INTERMEDIATE LEVEL

SCALE: 3/8" = 1'-0"

ELECTRICAL KEY NOTES - PROPOSED EQUIPMENT

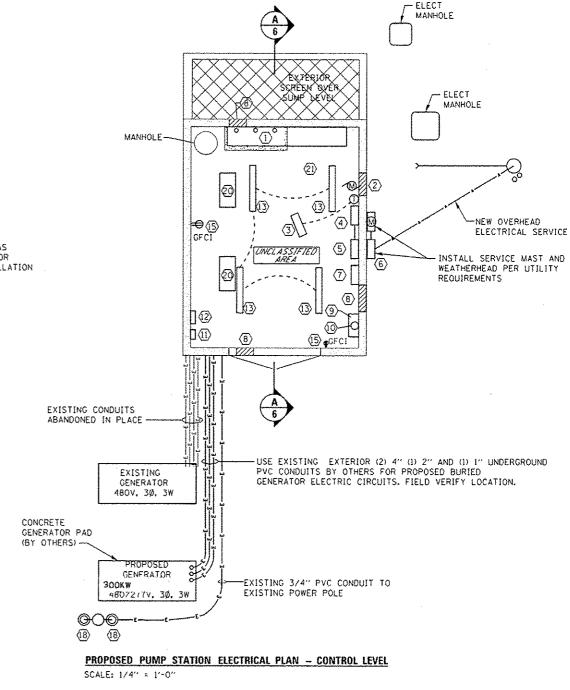
- (1) NEW MOTOR CONTROL CENTER 480V, 600 A 30. 4W, NEMA 12 EXTEND CONCRETE PAD EAST AS NELESSARY TO ACCOMMODATE NEW MCC.
- (2) NEW EXHAUST FAN WITH BACKDRAFT DAMPER, EXISTING WEATHERHOOD TO BE RE-USED. FAN TO BE INTERLOCKED WITH BACKDRAFT & AIR INTAKE DAMPERS TO PREVENT FAN FROM STARTING UNTIL ALL DAMPERS ARE OPEN. FAN TO OPERATE CONTINUOUSLY.
- (3) NEW CEILING MOUNTED 15KW . 480V UNIT HEATER WITH WALL MOUNTED THERMOSTAT. CONNECT TO EXISTING BRANCH CIRCUIT.
- (4) NEW GOOA AUTOMATIC TRANSFER SWITCH 3-POLE W/ SOLID NEUTRAL.
- (5) NEW 800A FUSIBLE DISCONNECT NEMA 4
- (6) NEW CURRENT TRANSFORMER CABINET AND METER PER ELECTRICAL UTILITY REQUIREMENTS.
- (7) NEW DIALER PANEL, LOCATE IN EXISTING HEALY-RUFF ENCLOSURE. CONNECT TO EXISTING TELEPHONE LINE.
- (8) NEW AIR INTAKE LOUVER WITH ACTUATED DAMPER TO BE INTERLOCKED WITH EXHAUST FAN SO THAT DAMPER IS OPEN BEFORE FAN IN RUNNING. PROVIDE NEW BRANCH CIRCUIT. EXISTING WEATHERHOOD TO BE RE-USED.
- 9 NEW STORMWATER PUMP FLOAT CONTROL PANEL.
- (©) NEW FLOOR PENETRATION FOR FLEXIBLE CORD ACCESS TO FLOAT CONTROLS. FIELD VERIFY SIZE OF FLOOR PENETRATION NEFDED. COVER PENETRATION WITH 3/8" TREAD PLATE AND CUT PLATE AS NEEDED FOR CONTROL CORD PENETRATION, ANCHOR PLATE TO CONCRETE FLOOR WITH (8) EIGHT FLATHEAD MACHINE SCREWS AND CONCRETE SLEEVES. SEE DETAIL THIS SHEET.
- (1) NEW GENERATOR BATTERY CHARGER, CONNECT TO EXISTING BRANCH CIRCUIT.
- (12) NEW GENERATOR ANNUNCIATOR PANEL.
- (3) NEW LINEAR LIGHT FIXTURE. CONNECT TO EXISTING BRANCH CIRCUIT AND CONTROLLED BY EXISTING SWITCH.
- 1 NEW WALL MOUNT LIGHT FIXTURE, CONNECT TO EXISTING BRANCH CIRCUIT.

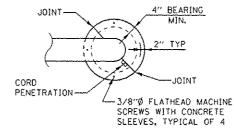
(9) CONTROL LEVEL EL=408.00 CHASE FOR FORMER FLOAT ALARM CORE DRILL AS NECESSARY FOR FLOAT INSTALLATION INTERMEDIATE LEVEL EL=396.42 (19)STORM WATER PUMP (19)STORM WATER PUMP INFLOW HIGH LEVEL FLOAT EL=396.00 LAG PUMP ON FLOAT EL=395.50 LEAD PUMP ON FLOAT EL=393.50 OFF FLOAT EL=391.50 LOW LEVEL FLOAT EL=390.50 (ANCHOR A SUMP LEVEL EL=388.42 SECTION SCALE: 1/4" = 1'-0"

2

- (5) REPLACE EXISTING RECEPTACLE WITH GFCI RECEPTACLE.
- (6) EXISTING CIRCULAR INTERMEDIATE LEVEL FLOOR PENETRATION TO BE COVERED WITH 3/8" TREAD PLATE, FIELD VERIFY SIZE AND GEOMETRY OF PLATE TO ENSURE 4" OF BEARING ON ALL SIDES AND CORD PENETRATION(S), ANCHOR PLATE TO CONCRETE FLOOR WITH (4) FOUR FLATHEAD MACHINE SCREWS AND CONCRETE SLEEVES, SEE DETAIL THIS SHEET,
- (T) EXISTING RECTANGULAR INTERMEDIATE LEVEL FLOOR PENETRATION TO BE COVERED WITH 3/8" TREAD PLATE. FIELD VERIFY SIZE AND GEOMETRY OF PLATE TO ENSURE 4" OF BEARING ON ALL SIDES AND CORD PENETRATION(S), ANCHOR PLATE TO CONCRETE FLOOR WITH (8) EIGHT FLATHEAD MACHINE SCREWS AND CONCRETE SLEEVES, SEE DETAIL THIS SHEET.
- (8) PROPOSED LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, PHOTO-CELL CONTROL, 150 WATT, 2 EACH, MOUNT ACCORDING TO HIGHWAY STANDARD 830026 ON 35' WOOD POLE (BY OTHERS)
- (9) PUMPS SHALL BE REMOVED FOR MAINTENANCE AND INSPECTION PER THE SPECIAL PROVISIONS. FOLLOWING INSPECTION THE PUMP SHALL BE RE-INSTALLED. ONE PUMP SHALL BE IN OPERATION AT ALL TIMES DURING THE MAINTENANCE AND INSPECTION OF THE OTHER PUMP.
- PROVIDE NEW FEEDERS FROM THE MCC TO THE FLYGT STORMWATER PUMP MOTOR CABINET.
- (21) CONDUITS AND BRANCH CIRCUITS PREVIOUSLY TERMINATED WITHIN THE STORMWATER MCC HOUSE PANEL SHALL BE RE-ROUTED AND EXTENDED AS NECESSARY TO TERMINATE AT THE NEW HOUSE PANEL LOCATION.

SEE SHEET *9 FOR ELECTRICAL SWITCH OVER NOTES





NOTES:

1.) FIELD VERIFY SIZE AND GEOMETRY OF PLATE TO ENSURE 4" OF BEARING ON ALL SIDES AND CORD PENETRATION(S) AS NEEDED.

JOINT

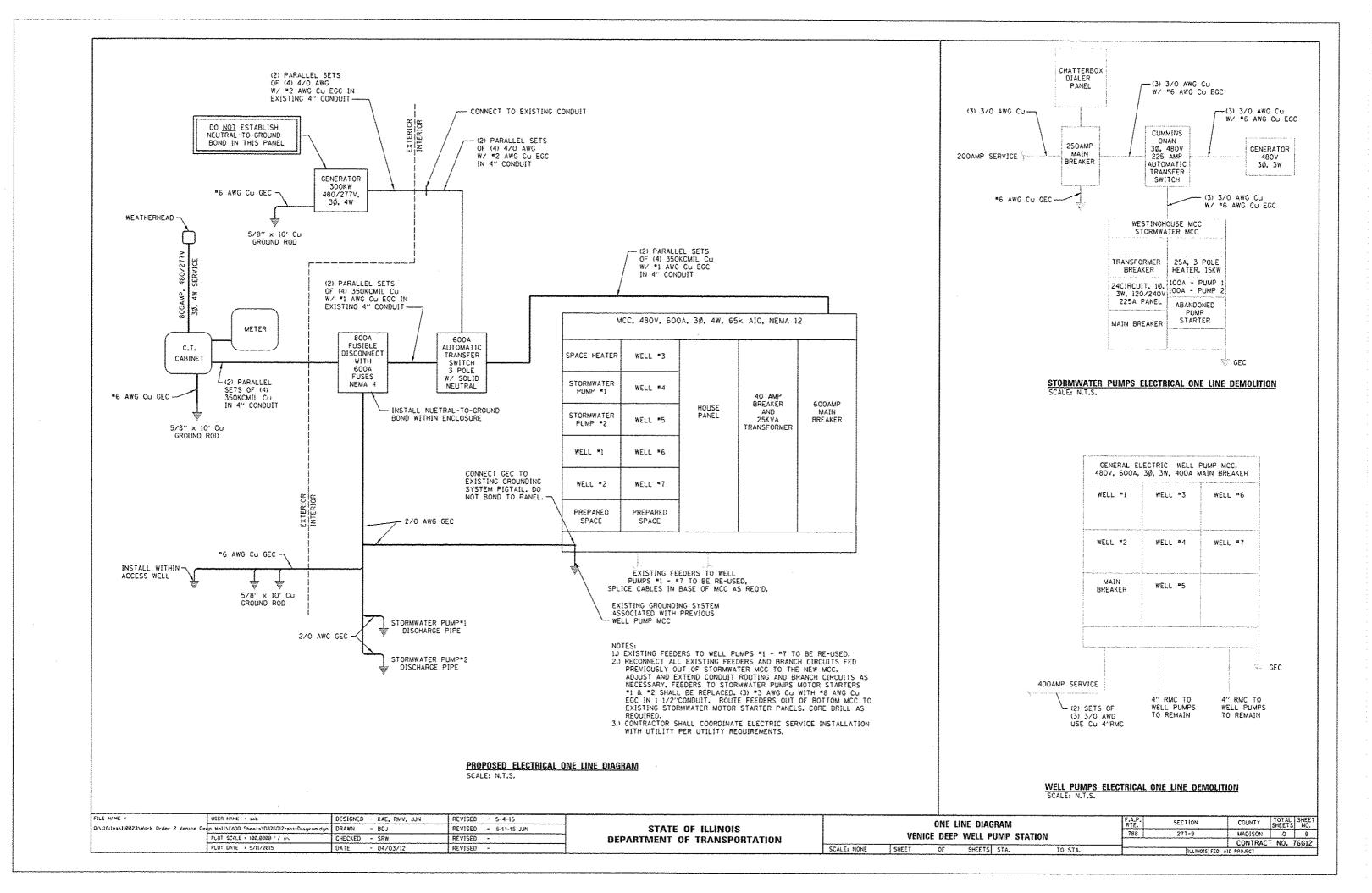
4" BEARING

3/8"Ø FLATHEAD MACHINE
SCREWS WITH CONCRETE
SLEEVES, TYPICAL OF 8

2.) UTILIZE SEALANT AROUND ALL JOINTS, BEARING SURFACES, HOLES, ETC... OF TREAD PLATES TO MAKE GAS TIGHT.

TYPICAL TREAD-PLATE ANCHOR DETAIL CIRCULAR AND RECTANGULAR FLOOR PENETRATIONS

SCALE: 1/2" = 1'-0' FILE NAME : DESIGNED - KAE, RMV. JUN REVISED - 5-4-15 SHEETS NO. PROPOSED ELECTRICAL PLAN STATE OF ILLINOIS Qt\IIFiles\II8023\Work Grder 2 Venice WollNCADD SheetsNDB7GG12-sht-ElecProp.dom DRAWN - BGJ REVISED - 5-11-15 JUN 788 271-9 MADISON 10 7 VENICE DEEP WELL PUMP STATION PLOT SCALE = 514 7/ in CHECKED * SRW REVISED -**DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 76G12 PLOT DATE = 5/11/2015 DATE - 04/03/12 REVISED SCALE: AS NOITED SHEET OF SHEETS STA. ILLINOIS FED. ALD PROJECT



ELECTRICAL SWITCH OVER NOTES

THE CONTACTOR SHALL NOTIFY AND RECEIVE WRITTEN APPROVAL FROM THE OWNER 48 HOURS PRIOR TO ANY POWER INTERRUPTION TO THE PUMP STATION.

CONTRACTOR SHALL HAVE A 150 KW GENERATOR ON SITE DURING ALL POWER OUTAGES IMPACTING THE WELLS. OWNER AND ENGINEER WILL PROVIDE CONTRACTOR WITH DETERMINATION OF WHETHER WELL OPERATION IS REQUIRED DURING THE POWER OUTAGE AND CONTRACTOR IS RESPONSIBLE FOR CONNECTING THE OWNER DESIGNATED WELL TO THE GENERATOR.

CONTRACTOR IS RESPONSIBLE FOR MOTOR STARTER, CONDUCTORS, AND OTHER ANCILLARY EQUIPMENT AS MAY BE REQUIRED TO CONNECT THE GENERATOR TO THE DESIGNATED PUMP.

THE INITIAL POWER OUTAGE IS LIMITED TO 72 HOURS DURING THIS TIME THE CONTRACTOR SHALL:

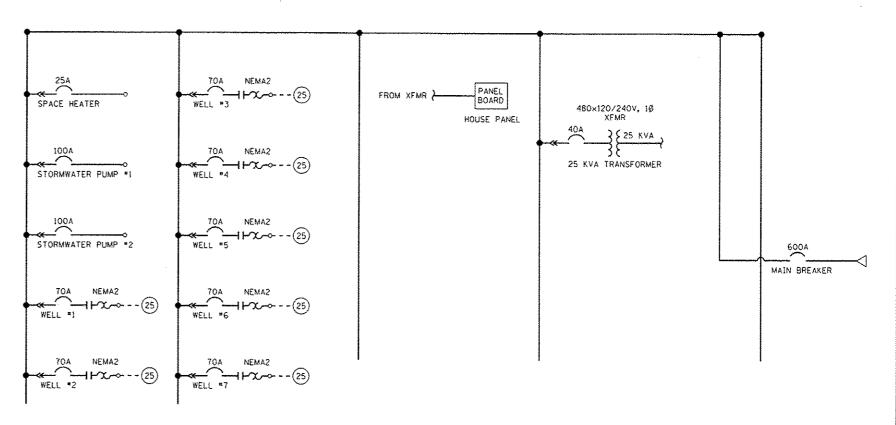
-) REMOVE EXISTING WELL PUMP MCC COORDINATE WITH UTILITY TO INSTALL NEW METERING EQUIPMENT AND SERVICE NEUTRAL CONDUCTOR
- 3) INSTALL NEW MCC, TEST MCC AND CONNECT WELL PUMP FEEDERS TO NEW MCC
- 4) ENERGIZE NEW SERVICE

THE EXISTING GENERATOR SERVING THE STORM WATER PUMP SHALL REMAIN OPERATIONAL DURING INITIAL POWER OUTAGE. IF STORM WATER PUMP OPERATION IS REQUIRED DURING THE POWER OUTAGE. POWER SHALL BE SUPPLIED BY THE EXISTING GENERATOR.

THE STORM WATER PUMPS SHALL BE CONNECTED TO THE NEW MCC WITHIN 48 HOURS FOLLOWING ENERGIZING OF THE NEW ELECTRICAL SERVICE. IF RAIN IS FORECASTED DURING THE INITIAL 48 HOURS FOLLOWING ENERGIZING OF THE NEW ELECTRICAL SERVICE, THE STORM WATER PUMP SWITCHOVER MAY BE DELAYED WITH THE WRITTEN APPROVAL OF THE OWNER AND ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OPERATING THE STORM WATER PUMPS MANUALLY WHENEVER AUTOMATIC CONTROL OF THE PUMPS IS NOT AVAILABLE FROM EITHER THE EXISTING OR PROPOSED CONTROL SYSTEMS.

THE PROPOSED GENERATOR SHALL BE CONNECTED TO THE PROPOSED MCC AND MADE OPERATIONAL WITHIN ONE WEEK OF THE STORM WATER PUMP SWITCHOVER.



MCC ONE-LINE DIAGRAM

С	LECTRICAL DANIEL.	04			^^ .	•	Area	_	·				
	LECTRICAL PANEL:	Sto	rmwa	ater IVI	CCF	louse	Served	: HOUSE	HOUSE				
Loca	ation:	1		225 A	120/240	/ 1Ph	3 Wire	-					
STO	ORMWATER MCC		-	Fault Ra	ting 18,0	000	:	-					
T		Brkr.		Lo	ad	······································	Brkr.		Т				
No.	Description	Amps	Α	В	В	A	Amps	Description	No				
4	EXISTING LIGHTS (INT. AND SOUTH EXT.)	20					20	EXHAUST FAN/LOUVERS	2				
3	EXISTING OUTLETS	20				250	20	SPARE	4				
5	MCC SPACE HEATER	20					20	SPARE	6				
7	SPARE	20					20	SPARE	8				
9	SPARE	20					20	MONITOR PANEL (DIALER)	10				
11	SPARE	20					20	EXISTING EXTERIOR LIGHTS E,W,N	12				
13	SPARE	20					20	STORMWATER PUMP CONTROL	14				
15	EXISTING BATTERY CHARGER	20					20	SPARE	16				
17	GENERATOR	50					20	EXTERIOR POLE LIGHTS	18				
19	GENERATOR	50					20	SPARE	20				
21	SPARE	20					20	SPARE	22				
23	SPARE	20					20	SPARE	24				
			C	0	() (<u></u>				
	Totals	Pha	se A	Phas	se B	Total Wa	attage(V/	Capacity					
		()	0	0			54000					

Contractor to verify load served matches existing circuit labels. Update labels as necessary. If circuit is not used, label as "Spare."

	r					·											
FILE NAME :	USER NAME = sets	DESIGNED	- KAE, RMV, JJN	REVISED	~ 5-4-15	ł		ONE LINE DIAGRAM VENICE DEEP WELL PUMP STATION		F.A.P.	SECTION	COUNTY	TOTAL SHE	ÆT]			
Di\lifelas\lie823\Work Order 2 Venice Oc	p Well\CADD Sheeta\D876612-sht-Diegram,don	DRAWN	~ BGJ	REVISED	- 5-11-15 JJN	TA?	TE OF ILLINOIS			RIE.			SHEETS NO	٠. ا			
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	PLOT SCALE + 100.0000 ' / so.	CHECKED	- SRW	REVISED	~] DEPARTMEN	OF TRANSPORTATION	VEHICL DEEP VALLE POINT STATION					CONTRACT	T NO. 76G	12		
	PLOT DATE = 5/12/2015	DATE	- 04/03/12	REVISED	1	1		SCALE: NONE SHEET OF SHEETS STA. TO ST		TO STA,	 	TILLINOIS FF	O. AID PROJECT	1 140. 100			
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