06-14-2019 LETTING ITEM 048

INDEX OF SHEETS

- COVER SHEET
- GENERAL NOTES SUMMARY OF QUANTITIES
- WESTPORT PUMP STATION ELECTRICAL PLAN AND DETAILS
- WESTPORT PUMP STATION ELECTRICAL ONE-LINE DIAGRAM
- EFFINGHAM PUMP STATION ELECTRICAL PLAN AND DETAILS
- EFFINGHAM PUMP STATION ELECTRICAL ONE-LINE DIAGRAM DECATUR PUMP STATION ELECTRICAL PLAN AND DETAILS
- DECATUR PUMP STATION ELECTRICAL ONE-LINE DIAGRAM

HIGHWAY STANDARDS

000001-07 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

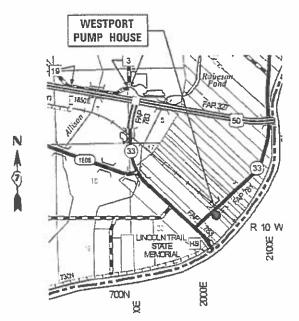
STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

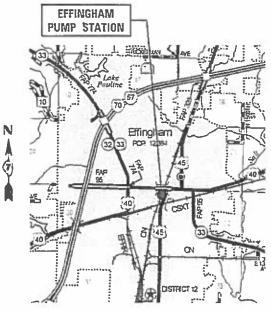
PROPOSED HIGHWAY PLANS

VARIOUS ROUTES SECTION D7 PUMP STATION 2019 NEW AUTOMATIC TRANSFER SWITCHES AND MISC. IMPROVEMENTS LAWRENCE, EFFINGHAM, AND MACON COUNTIES

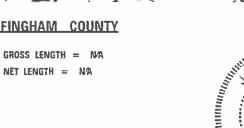
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LAWRENCE COUNTY



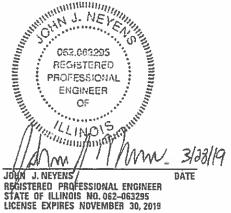
EFFINGHAM COUNTY



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.

DECATUR PUMP HOUSE

MACON_COUNTY



SECTION YAR. DT PUMP STATIONS 2019 NELHOIS CONTRACT NO. 46529

· LAWRENCE/EFFINGHAM/MACON

D-7

LOCATION OF SECTION INDICATED THUS: -

KLINGNEA & ASSOCIATES, P.C.

Engineers · Architects · Surveyors

Quincy, Illinois Galesaury, IL Bictington, IA Peta IA Itanabal I/O Cerumbu, I/O STATE OF ILUNOIS DESIGN FIRM NO. 184-2728

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 46529

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

PROJECT MANAGER: KIMBERLY BLAIR 217-342-8265

J.U.L.LE.

1-800-892-0123

- PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD, AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING MATERIALS.
- 2. THE CONTRACTOR SHALL SECURE ANY LOCAL, STATE, COUNTY PERMITS NEEDED FOR THIS PROJECT.
- . THE CONTRACTOR SHALL PERFORM ALL CONSTRUCTION FOR THE PROJECT IN A MANNER AND SEQUENCE THAT ARE BASED ON ACCEPTED INDUSTRY STANDARDS THAT RECOGNIZE THE INTERACTION OF THE COMPONENTS THAT COMPRISE THE STRUCTURE, WITHOUT CAUSING DISTRESS, UNANTICIPATED MOVEMENTS OR IRREGULAR LOAD PATHS AS A RESULT OF THE CONSTRUCTION MEANS AND METHODS EMPLOYED.
- 4. CONSTRUCTION LOADS SHALL NOT EXCEED DESIGN LIVE LOAD. THE CONTRACTOR IS RESPONSIBLE FOR ALL DESIGN REQUIRED TO SUPPORT CONSTRUCTION EQUIPMENT USED IN CONSTRUCTING THIS PROJECT. SHORING AND RESHORING IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INCLUDED WITH THE COST OF FURNISHING AND ERECTING STRUCTURAL STEEL, SPECIAL.
- 5. 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 J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

* *

MEMBERS OF J.U.L.I.E. CALL TOLL FREE (800) 892-0123 OR 811 AND ARE INDICATED BY *. NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY

- 6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENFORCE ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
- 7. ALL CONTRACTORS ARE REQUIRED TO EXAMINE THE DRAWINGS AND SPECIAL PROVISIONS CAREFULLY, VISIT THE SITE AND FULLY INFORM THEMSELVES AS TO ALL EXISTING CONDITIONS AND LIMITATIONS, PRIOR TO AGREEING TO PERFORM THE WORK. FAILURE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AND LIMITATIONS WILL IN NO WAY RELIEVE THE CONTRACTOR FROM FURNISHING ANY MATERIALS OR PERFORMING ANY WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS WITHOUT ADDITIONAL COST TO THE OWNER.
- 8. DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE EXISTING PUMP STATION BUILDING.
- 9. DRAWINGS ARE NOT TO SCALE.
- 10. THE DEPARTMENT RESERVES THE RIGHT TO NOTIFY THE CONTRACTOR TO CHANGE THE CONSTRUCTION SCHEDULE IF NEEDED TO ENSURE PROPER DEWATERING NEEDS FOR THE DEPARTMENT.
- 11. 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 HCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.

• LAWRENCE/EFFINGHAM/MACON

& ASSOCIATES, P. C.
Engineers - Architects - Surveyors
10 N24TH ST. OUNCY, LLMOIS 82201 217 223-9670

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

			100% STATE	CONSTRUCTION TYPE CODE			
					LAWRENCE	EFFINGHAM	MACON
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0044	0044	0044
				QUANTITI	RURAL	URBAN	URBAN
*	50606701	CLEANING AND PAINTING STRUCTURAL STEEL, LOCATION 1	L SUM	1	1		
							G.
*	50606702	CLEANING AND PAINTING STRUCTURAL STEEL, LOCATION 2	L SUM	1			1
	67100100	MODILIZATION	L CHA	1	0.22	0.22	0.24
	67100100	MOBILIZATION	L SUM	1	0.33	0.33	0.34
	X0783300	PUMP STATION ELECTRICAL WORK	L SUM	1	0.27	0.34	0.39
*	Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1		
*	Z0007102	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 2	L SUM	1			1
4	1		-		4		
- 3	9		-	1	*	4	7
			ľ		7		
3	-		-		7		
10	4						

★ SPECIALTY ITEM

REV. - MS

• LAWRENCE/EFFINGHAM/MACON

LINGS USE

A S S O C I A T E S, P. C.

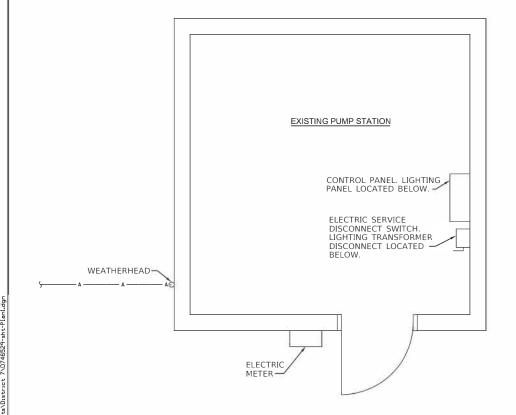
Engineers · Architects · Surveyors

616 N 24TH ST. OUNCY, LLINGIS 62301 217 223 3670

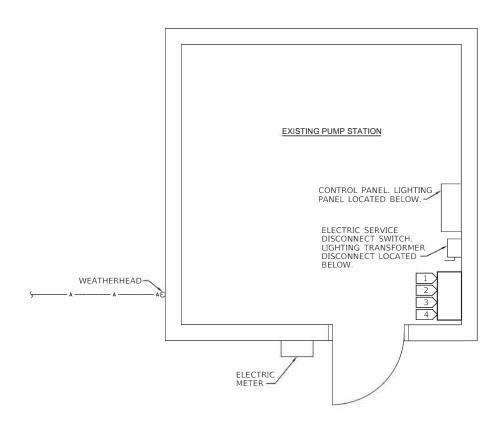
STATE OF LUNGIS PERMON 1844-7738

PLOT

U SE R NA ME bagu	DESIGNED - JNN	REVISED -
	DRAWN - AMS	REVISED -
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PLOT DATE = 3/25/2019	DATE -	REVISED -



EXISTING ELECTRICAL PLAN
SCALE: 1/2"=1'-0"

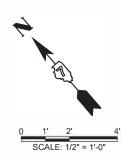


PROPOSED ELECTRICAL PLAN

SCALE: 1/2"=1'-0"

KEY NOTES (APPLICABLE TO THIS SHEET ONLY)

- 1) INSTALL NEW CONUIT/CONDUCTORS FROM SERVICE DISCONNECT TO NEW TRANSFER SWITCH.
- 2 NEW AUTOMATIC TRANSFER SWITCH.
- 3 NEW GENERATOR QUICK CONNECTION ENCLOSURE.
- 4) INSTALL NEW CONDUIT/CONDUCTORS FROM TRANSFER SWITCH TO CONTROL PANEL AND LIGHTING TRANSFORMER DISCONNECT.
- 5 CLEAN AND PAINT STRUCTURAL STEEL ROOF BEAMS. COST INCLUDED IN CLEANING AND PAINTING STRUCTURAL STEEL LOCATION 1



REV. - MS

• LAWRE NŒ/EFFINGHAM/MACON

LINGRIER

4 ASSOCIATES, r.c.

Engineers · Architects · Surveyors
616 N 24TH ST QUINCY, ILLINOIS 62301 277 223 5870
STATE OF ILLINOIS DESIGN FL. RM NO. 184-2738

PLOT DATE = 3/25/2019

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WESTPORT PUMP STATION
ELECTRICAL PLAN AND DETAILS

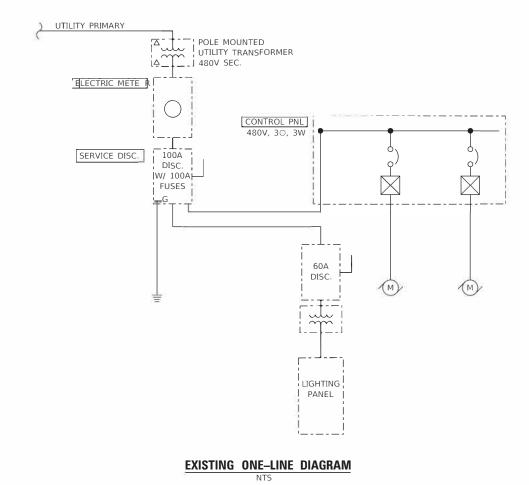
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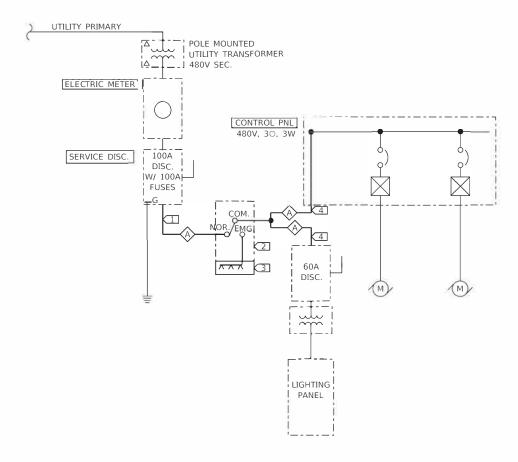
TO STA.

F.A.I. SECTION COUNTY TOTAL SHEETS NO.

VAR. D7 PUMP STATIONS 2019 • 9 4

CONTRACT NO. 46529





PROPOSED ONE-LINE DIAGRAM

FEEDER SCHEDULE								
TAG	NUMBER OF SETS	PHASE CON QUANTITY	NDUCTORS_ SIZE	NEUTRAL	EGC/ GEC	CONDUIT		
\Diamond	1	3	#1 AWG	0	#8 AWG	1.5"		

REV. - MS

LAWRENCE/EFFINGHAM/MACON

KEY NOTES (APPLICABLE TO THIS SHEET ONLY)

3 NEW GENERATOR QUICK CONNECTION ENCLOSURE.

TO NEW TRANSFER SWITCH.

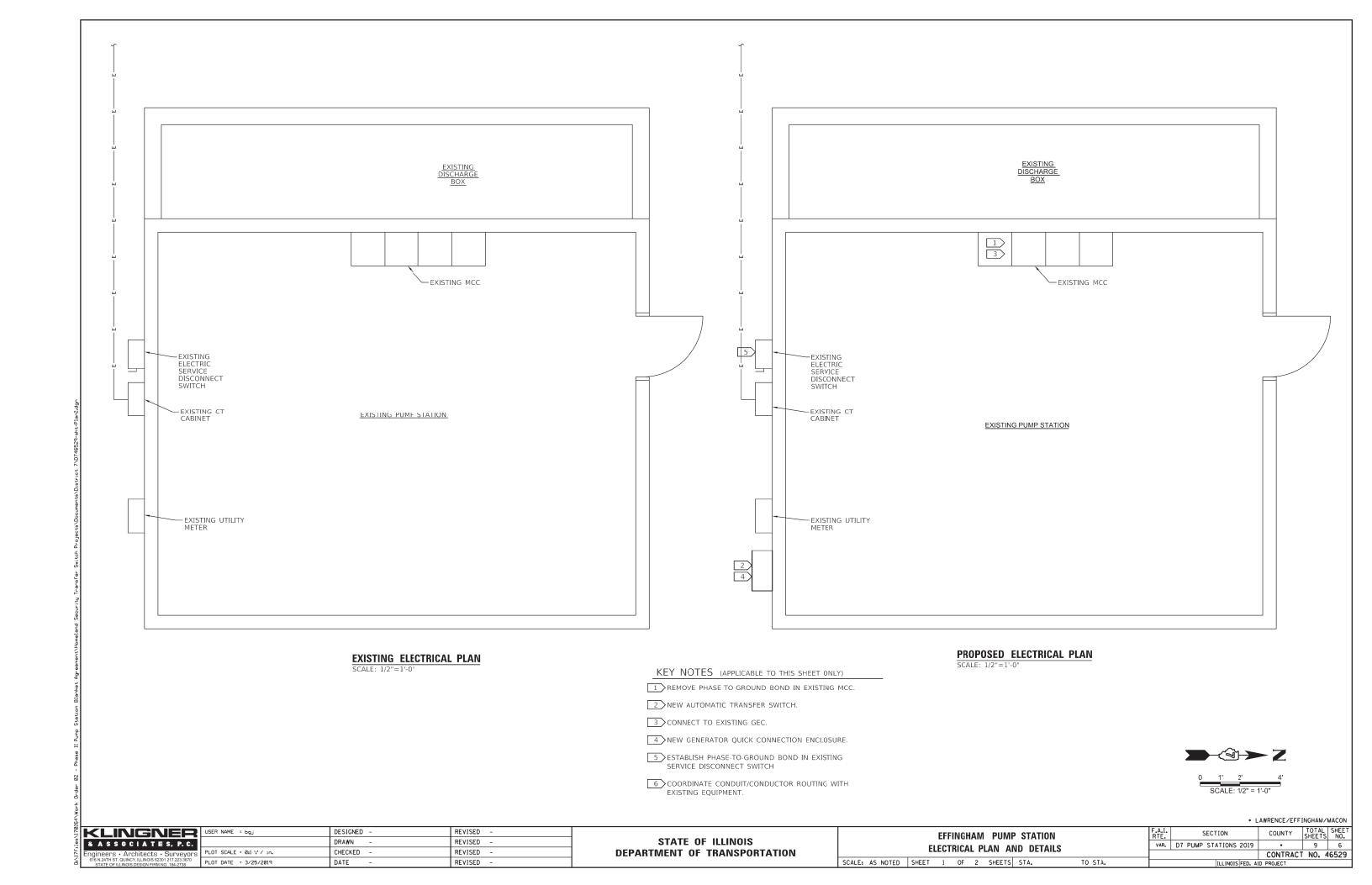
2 NEW AUTOMATIC TRANSFER SWITCH.

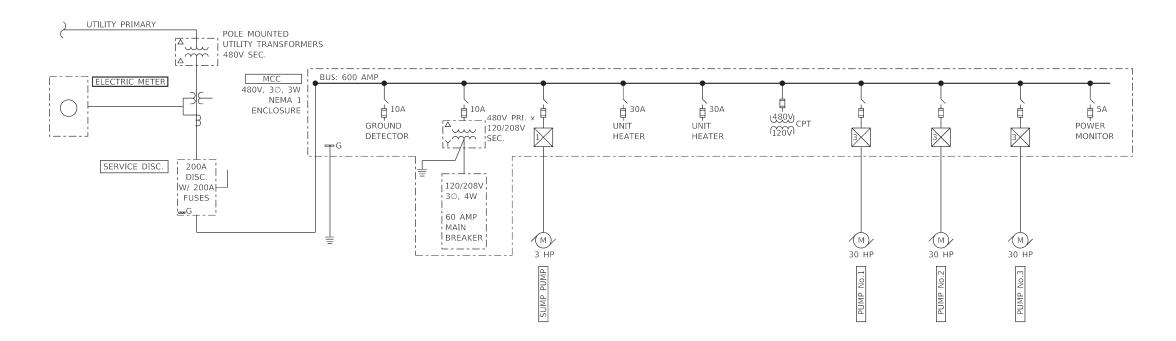
1 INSTALL NEW CONDUIT/CONDUCTORS FROM SERVICE DISCONNECT

4 INSTALL NEW CONUIT/CONDUCTORS FROM TRANSFER SWITCH TO CONTROL PANEL AND LIGHTING TRANSFORMER DISCONNECT.

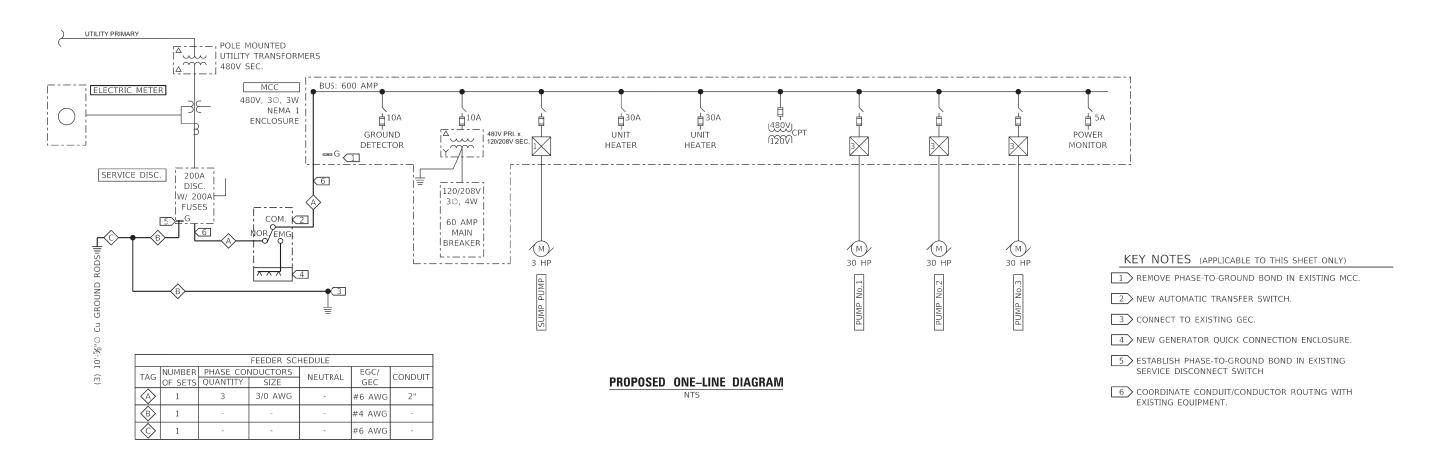
& ASSOCIATES, P.C. USER NAME = bgj REVISED F.A.I. SECTION

VAR. D7 PUMP STATI ONS 2019 DESIGNED -WESTPORT PUMP STATION STATE OF ILLINOIS DRAWN REVISED **ELECTRICAL ONE-LINE DIAGRAM** PLOT SCALE = 0:1'1/1. n CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 46529 SHEET 2 OF 2 SHEETS STA. TO STA. PLOT DATE = 3/25/2019 DATE SCALE: NONE REVISED



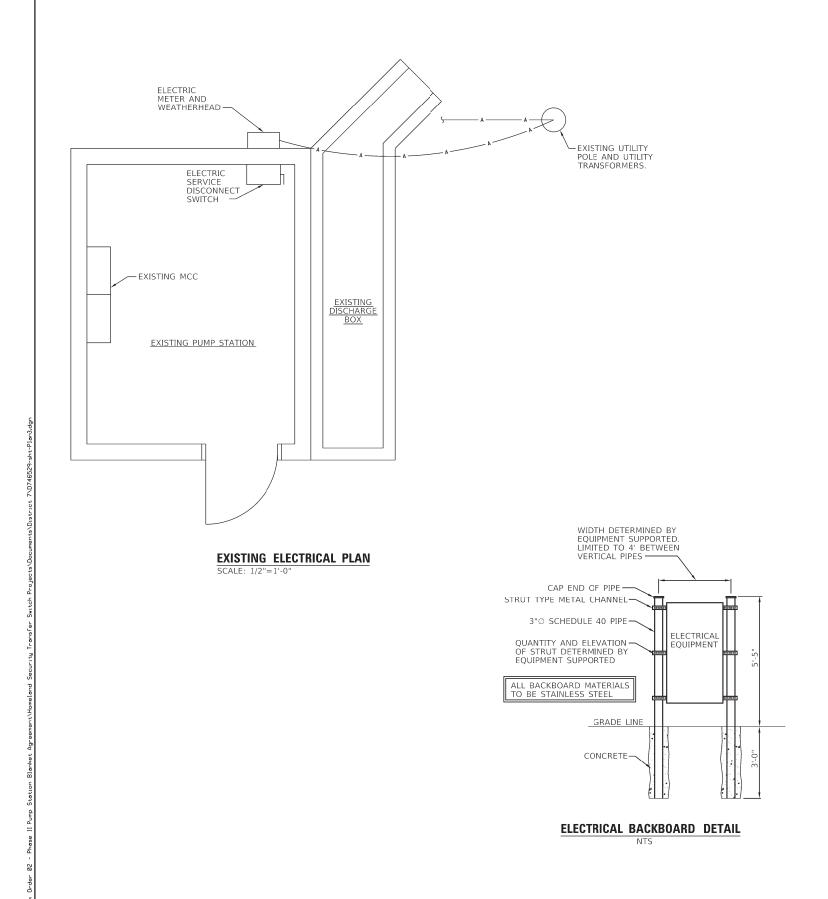


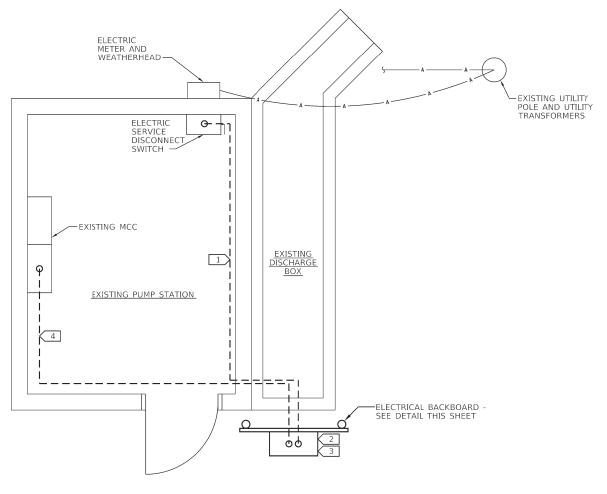
EXISTING ONE-LINE DIAGRAM



• LAWRENCE/EFFINGHAM/MACON

KLINGNER DESIGNED REVISED SECTION COUNTY **EFFINGHAM PUMP STATION** STATE OF ILLINOIS & ASSOCIATES, P.C. DRAWN REVISED VAR. D7 PUMP STATIONS 2019 9 7 **ELECTRICAL ONE-LINE DIAGRAM** CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 46529 SCALE: NONE SHEET 2 OF 2 SHEETS STA. TO STA. PLOT DATE = 3/25/2019 DATE REVISED



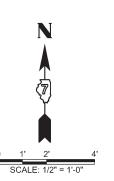


PROPOSED ELECTRICAL PLAN

SCALE: 1/2"=1'-0"

KEY NOTES (APPLICABLE TO THIS SHEET ONLY)

- 1 INSTALL NEW CONUIT/CONDUCTORS FROM SERVICE DISCONNECT TO NEW TRANSFER SWITCH. COORDINATE CONDUIT ROUTING WITH EXISTING EQUIPMENT AND MAINTAIN EQUIPMENT MAINTENANCE AND REMOVAL PATHWAYS WITHIN PUMP STATION
- 2 NEW AUTOMATIC TRANSFER SWITCH.
- 3 NEW GENERATOR QUICK CONNECTION ENCLOSURE.
- (4) INSTALL NEW CONUIT/CONDUCTORS FROM TRANSFER SWITCH TO MCC.
 COORDINATE CONDUIT ROUTING WITH EXISTING EQUIPMENT AND MAINTAIN
 EQUIPMENT MAINTENANCE AND REMOVAL PATHWAYS WITHIN PUMP STATION
- 5 CLEAN AND PAINT STRUCTURAL STEEL ROOF BEAMS. COST INCLUDED IN CLEANING AND PAINTING STRUCTURAL STEEL LOCATION 2



LAWRENCE/EFFINGHAM/MACON

 USER NAME = bg.j
 DESIGNED REVISED

 DRAWN REVISED

 PLOT SCALE = 0:1 ': / in.
 CHECKED REVISED

 PLOT DATE = 3/25/2019
 DATE REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

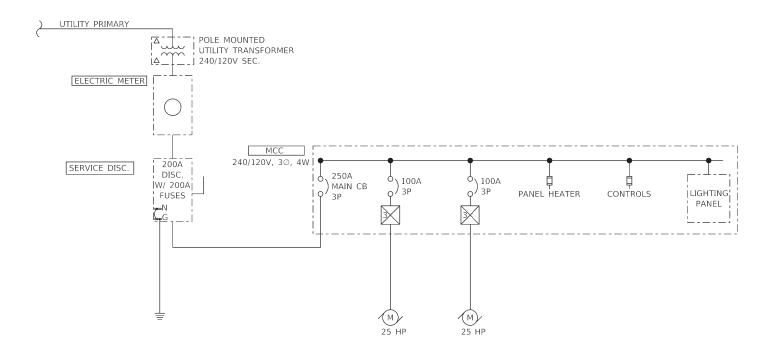
DECATUR PUMP STATION
ELECTRICAL PLAN AND DETAILS

SCALE: AS NOTED SHEET 1 OF 2 SHEETS STA.

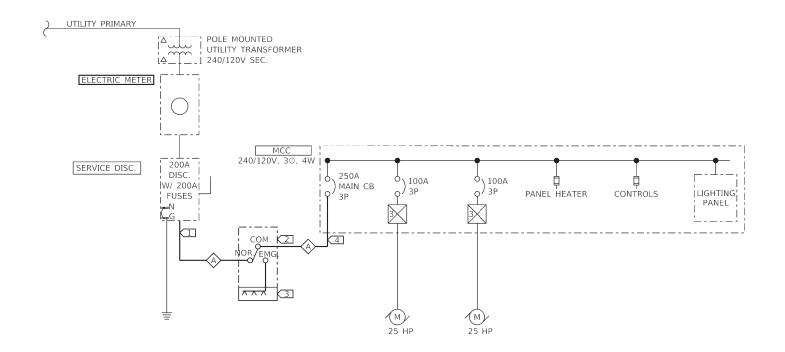
TO STA.

F.A.I. SECTION COUNTY TOTAL SHEET NO.
VAR. D7 PUMP STATIONS 2019 • 9 8

CONTRACT NO. 46529



EXISTING ONE-LINE DIAGRAM



PROPOSED ONE-LINE DIAGRAM

FEEDER SCHEDULE								
TAG	NUMBER	PHASE CONDUCTORS		NEUTRAL	EGC/	CONDUIT		
IAG	OF SETS	QUANTITY	SIZE	NEOTRAL	GEC	CONDOIT		
\Diamond	1	3	3/0 AWG	3/0 AWG	#6 AWG	2"		

•	LAWRENCE/EFFINGHAM/MACON

KEY NOTES (APPLICABLE TO THIS SHEET ONLY)

3 NEW GENERATOR QUICK CONNECTION ENCLOSURE.

TO NEW TRANSFER SWITCH.

2 NEW AUTOMATIC TRANSFER SWITCH.

1 INSTALL NEW CONUIT/CONDUCTORS FROM SERVICE DISCONNECT

4 INSTALL NEW CONUIT/CONDUCTORS FROM TRANSFER SWITCH TO MCC.

~											
170	KLINGNER	USER NAME = bgJ	DESIGNED -	REVISED -		DECATUR PUMP STATION	F.A.I.	SECTION	COUNTY TOT	TAL SH	Ē
les	& ASSOCIATES, P.C.		DRAWN -	REVISED -	STATE OF ILLINOIS		VAR.	D7 PUMP STATIONS 2019	• /	9	9
17f.	Engineers • Architects • Surveyors	PLOT SCALE = 0:1 ':' / 10.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	ELECTRICAL ONE-LINE DIAGRAM			CONTRACT NO	10. 465	ž
616 N.24TH ST. QUINCY, ILLINOIS 62301 217.223.36 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738		PLOT DATE = 3/25/2019	DATE -	REVISED -		SCALE: NONE SHEET 2 OF 2 SHEETS STA. TO STA.		ILLINOIS FED. AID	D PROJECT		_