03-06-2020 LETTING ITEM 111

INDEX OF SHEETS

1 COVER SHEET

0

- 2 GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4 ELECTRICAL LEGEND
- 5 GREY'S FARM PUMP STATION ELECTRICAL PLAN
- 6 GREY'S FARM PUMP STATION CONTROL SCHEMATIC
- 7 COLLINSVILLE *1 PUMP STATION ELECTRICAL PLAN 8 COLLINSVILLE *1 PUMP STATION CONTROL SCHEMATIC
- 9 COLLINSVILLE *1 PUMP STATION VENTILATION CHANGES
- 10 COLLINSVILLE *2 PUMP STATION ELECTRICAL PLAN
- 11 COLLINSVILLE "2 PUMP STATION CONTROL SCHEMATIC 12 COLLINSVILLE "2 PUMP STATION VENTILATION CHANGES

HIGHWAY STANDARDS

000001-07 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

PLANS PREPARED B

& ASSOCIATES, P.C.

Engineers · Architects · Surveyors

Quincy, Illinois www.klingner.com
618 North Zeth Street Celestery, II. Burington, M.
217 223.3670 Pote, IA. Hennibel, MO Columbie, MO
STATE OF ALLINOIS DESIGN FIRM NO. 164-2738



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.

3 11 1 1 1

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

OR 811

PROJECT ENGINEER HERVE GELIN
PROJECT MANAGER PHILLIP SAWYER

618-346-3175 618-346-3275

CONTRACT NO. 76L47

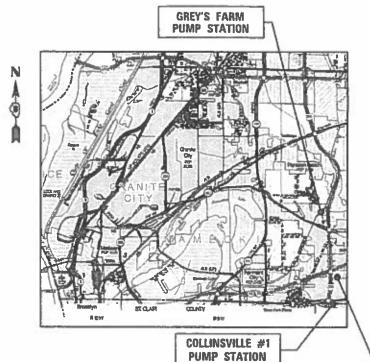
STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

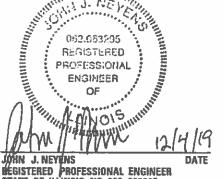
FAI ROUTE 255 (I-255)
SECTION 60-(7,8)PS-1
MOTOR STARTER REPLACEMENTS
MADISON COUNTY

C-98-236-18



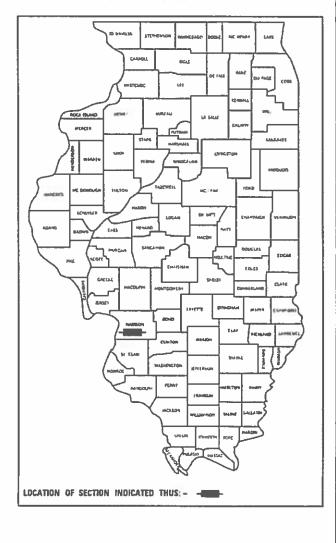
MADISON_COUNTY

COLLINSVILLE #2
PUMP STATION



MEGISTERED PROFESSIONAL ENGINEER STATE OF ILLINOIS NO. 062-063295 LICENSE EXPIRES NOVEMBER 30, 2021

D-98-060-18



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED

20

20

REGIONAL ENGINEER

ENGINEER OF DESIGN AND ENVIRONMENT

20

DIRECTOR OF MICHIWAYS PROJECT IMPLEMENTATIONS

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

GENERAL NOTES

- 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.
- 3. 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.
- 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:

- * Ameren Illinois (GAS & ELECTRIC)
- * AT&T Illinois (COMMUNICATIONS)
- * CenturyLink, Inc. (COMMUNICATIONS)
- * City of East St. Louis (LIGHTING)
- * ILLINOIS AMERICAN WATER CO. (WATER)

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.

KLINGNER	F
	ŀ
	l
616 N.24TH ST. QUINCY, ILLINOIS 62301 217 223 3670 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738	
	& ASSOCIATES, P.C. Engineers · Architects · Surveyors 610 N.24TH ST. OUNCY, ILLINOIS 62001 217.223.3670

USER NAME = ams	DESIGNED	-	AMS	REVISED -
	DRAWN	-	AMS	REVISED -
PLOT SCALE = 2:0 '-:' / in.	CHECKED	-	EBB	REVISED -
PLOT DATE = 12/4/2019	DATE	-	12/4/2019	REVISED -

STATE	OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

	CENEDAL NOTES						F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	GENERAL NOTES				255	60-(7,8)PS-1	MADISON	12	2		
									CONTRACT	NO.	76L47
SCALE:	NONE	SHEET 1	OF	1 SHEI	TS STA.	TO STA.		ILLINOIS FED. AID PROJECT			

ion Blanket Agreement/District 8 Motor Starters/Plans/Sheets/D876L47-sht-gennotes.

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

			100% STATE URBAN	CONSTR	UCTION TYPE	CODE
CODE NO.	ITEM UN	IT	TOTAL QUANTITY	MADISON 0044		
67100100	MOBILIZATION L SU	UM	1	1		
X0783300	PUMP STATION ELECTRICAL WORK L SU	UM	1	1		

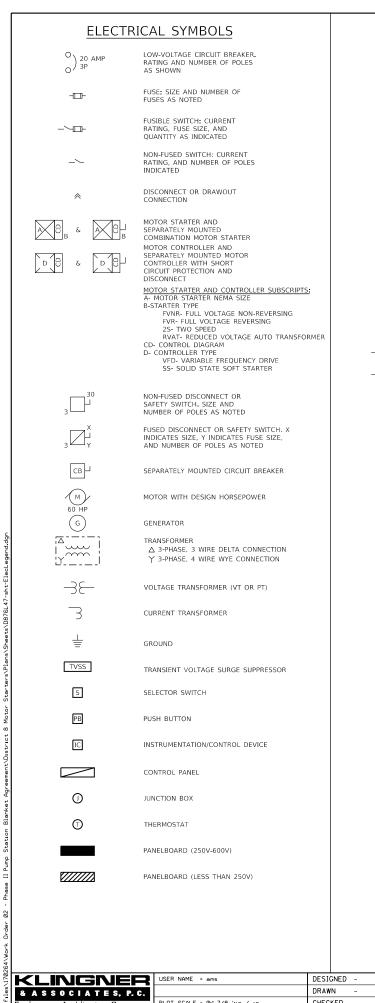
er 02 - Phase II Pump Station Blanket Agreement\District 8 Motor Starters\Plans\Sheets\D8

USER NAME = ams	DESIGNED - JNN	REVISED -
	DRAWN - AMS	REVISED -
PLOT SCALE = 2:0 '-:" / in.	CHECKED - JNN	REVISED -
PLOT DATE = 12/4/2019	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

			;	SUM	MA	RY OF	QUANTITIES
SCALE:	NONE	SHEET	1	OF	1	SHEETS	STA.

TO STA.



ngineers • Architects • Surveyors 616 N.24TH ST. QUINCY, ILLINOIS 62301 217.223.3870 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738 PLOT DATE = 12/4/2019

ELEC	TDICAL SYMBOLS		CONTROL SYMBOLS
ELEC	TRICAL SYMBOLS		CONTROL STMBOLS
\$	LIGHT SWITCH	—	ELECTRICAL CONNECTION
\$ x	LIGHT SWITCH, X WAY		NO ELECTRICAL CONNECTION
•	FLOOR BOX WITH DUPLEX RECEPTACLE	어Ю	NORMALLY OPEN CONTACT
\times	FLOOR BOX FOR DATA/COMMUNICATION	01/40	NORMALLY CLOSED CONTACT
A	WALL BOX FOR DATA/COMMUNICATION	20	NORMALLY OPEN TIME DELAY RELAY CONTACT. CLOSES UPON TIME DELAY AFTER ACTIVATING COIL
€	DUPLEX RECEPTACLE OUTLET	070	NORMALLY CLOSED TIME DELAY RELAY CONTACT. OPENS UPON TIME DELAY AFTER ACTIVATING COIL
⊕ GFCI	DUPLEX RECEPTACLE OUTLET WITH GROUND FAULT INTERRUPTER	20	NORMALLY OPEN TIME DELAY RELAY CONTACT. OPENS UPON TIME DELAY AFTER DE-ACTIVATING COIL
⊕- WP	WEATHERPROOF RECEPTACLE OUTLET WITH CFCI PROTECTION	010	NORMALLY CLOSED TIME DELAY RELAY CONTACT. CLOSES UPON TIME DELAY AFTER DE-ACTIVATING COIL
⊕ =	QUAD RECEPTACLE OUTLET	00	NORMALLY OPEN TEMPERATURE SWITCH: CLOSES ON RISING TEMPERATURE
X:##	CIRCUITING NOTATION: X DENOTES PANEL AND ## DENOTES CIRCUIT NUMBER	0-50	NORMALLY CLOSED TEMPERATURE SWITCH: OPENS ON RISING TEMPERATURE
\smile	DENOTES CIRCUITING FOR STANDARD ELECTRICAL DEVICES	0,0	NORMALLY OPEN FLOW SWITCH: CLOSES ON INCREASING FLOW
A —	OVERHEAD ELECTRIC	0- <u>t</u> 0	NORMALLY CLOSED FLOW SWITCH: OPENS ON INCREASING FLOW
—— Е—	UNDERGROUND ELECTRIC	0,0	NORMALLY OPEN LEVEL SWITCH: CLOSES ON INCREASING LEVEL
		070	NORMALLY CLOSED LEVEL SWITCH: OPENS ON INCREASING LEVEL
			NORMALLY OPEN PRESSURE SWITCH: CLOSES ON INCREASING PRESSURE
		070	NORMALLY CLOSED PRESSURE SWITCH: OPENS ON INCREASING PRESSURE
		~0	NORMALLY OPEN LIMIT SWITCH: CLOSES UPON REACHING LIMIT
		0-0	NORMALLY CLOSED LIMIT SWITCH: OPENS ON REACHING LIMIT
		PLC	MICROPROCESSOR INPUT
		PLC OH DO	MICROPROCESSOR OUTPUT
		D	FIELD WIRING EXTERNAL TO CONTROL PANEL
		H O A	
		O TO X00	3-POSITION SELECTOR SWITCH, MAINTAINED CONTACTS
		O O 000X	MAINTAINED CONTACTS
		0 0	NORMALLY OPEN PUSHBUTTON, MOMENTARY CONTACT
		010	NORMALLY CLOSED PUSHBUTTON, MOMENTARY CONTACT
		a(x)o	INDICATING LIGHT, X INDICATES COLOR
		0 (x)0	PUSH TO TEST INDICATING LIGHT, X INDICATES COLOR
			LENS COLOR: R- RED Y-YELLOW G- GREEN W-WHITE B-BLUE A- AMBER
		0-1-0	SOLENOID VALVE
		\propto	THERMAL OVERLOAD ELEMENT
		N N	THERMAL OVERLOAD ELEMENT RELAY CONTACT
		ETM	ELAPSED TIME METER
		MSC	MOTOR STARTS COUNTER

REVISED -

REVISED

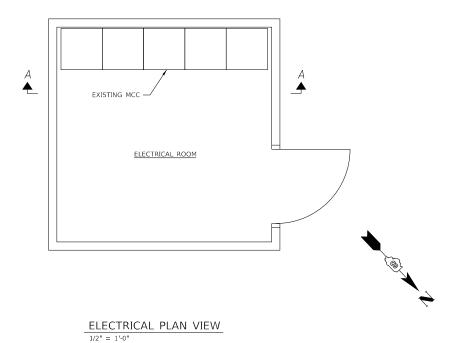
REVISED

REVISED -

CHECKED -

DATE

	DEPARTMENT OF TI	KANSPUKTATIUN	SCALE: NONE	SHEET 1 OF 1 SHEETS STA.	TO STA.	ILLINOIS FED. A	CONTRACT NO. 76L47 AID PROJECT
	STATE OF I			ELECTRICAL LEGEND		255 60-(7,8)PS-1	MADISON 12 4
						F.A.I. SECTION	COUNTY TOTAL SHEET NO.
	MSC	MOTOR STARTS COUNTER					
	ETM	ETM ELAPSED TIME METER					
	∬ OL	CONTACT					
	OL THERMAL OVERLOAD ELEMENT RELAY						
	∞	THERMAL OVERLOAD ELEMENT					
	0-√0	SOLENOID VALVE					
G- GREEN W-WHITE B-BLUE A- AMBER							



SECTION D SECTION E1 SECTION D SECTION C1 SECTION B1 SECTION A1 E2.1 E2.2 SECTION D3 SECTION E SECTION D

SECTION A1: EXISTING MAIN DISCONNECT

 $\underline{\sf SECTION\ B1}.$ LIFT PUMP P-2. ORIGINAL MOTOR STARTER PREVIOUSLY REPLACED. NO WORK IN THIS CONTRACT

 $\underline{\text{SECTION C1}}\text{:}$ LIFT PUMP P-1. MOTOR STARTER TO BE REPLACED UNDER THIS CONTRACT.

SECTION D1: LIFT PUMP P-3. ORIGINAL MOTOR STARTER PREVIOUSLY REPLACED. NO WORK IN THIS CONTRACT

SECTION D2: RELAY SECTION

 $\underline{\text{SECTION D3}}\text{:}$ LIFT PUMP P-4. MOTOR STARTER TO BE REPLACED UNDER THIS CONTRACT.

SECTION D4: SPACE

SECTION D5: SPACE

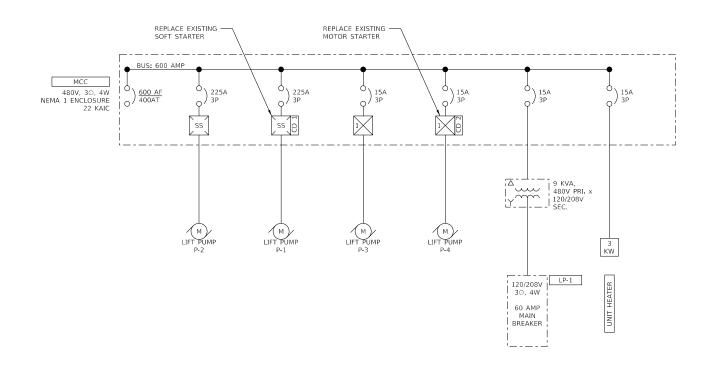
SECTION E1: LIGHTING PANEL

SECTION E2.1: LIGHTING XFMR OCPD

SECTION E2.2: UNIT HEATER OCPD

SECTION E3: LIGHTING XFMR

A MCC ELEVATION



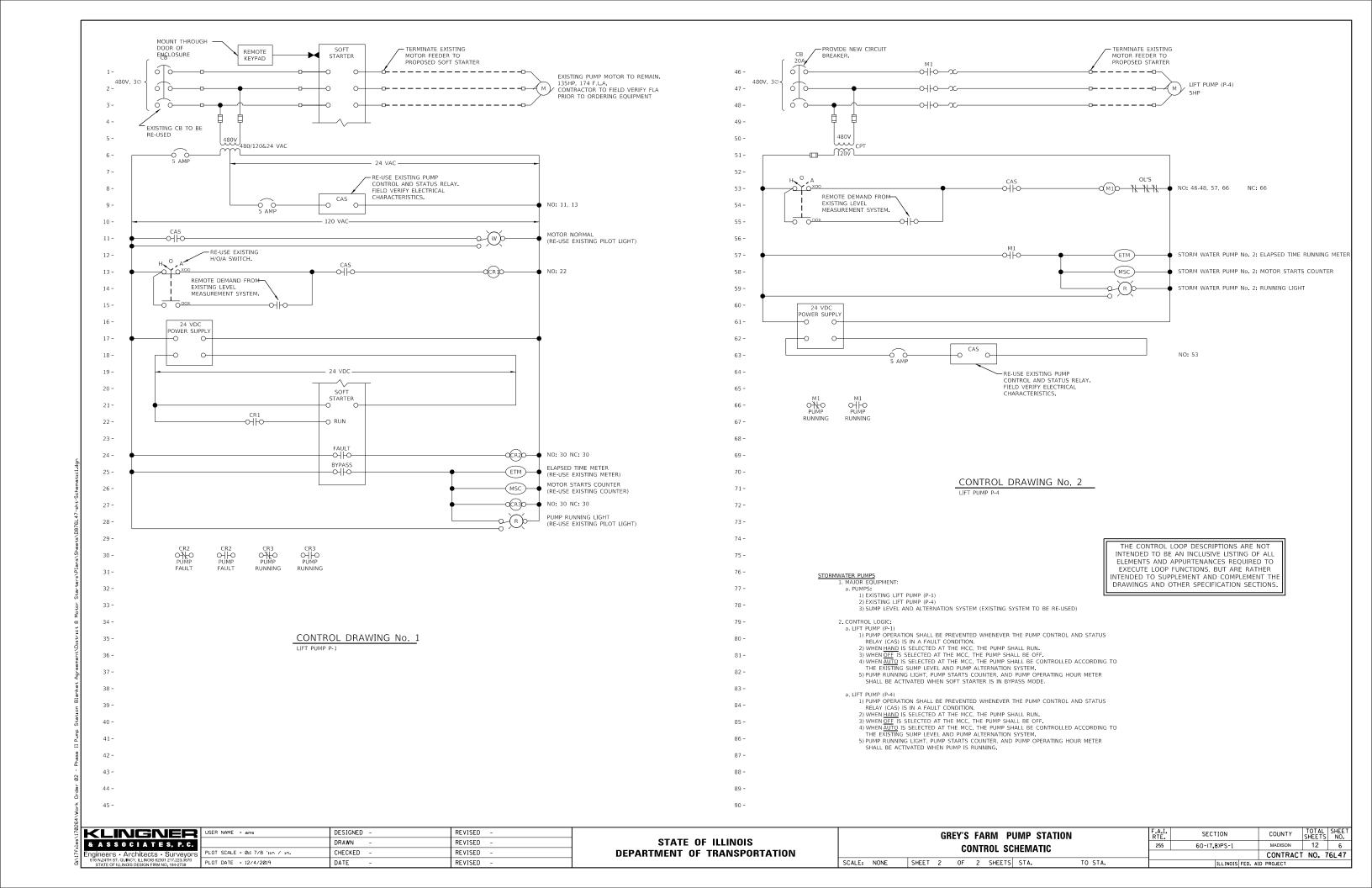
MCC ONE-LINE DIAGRAM

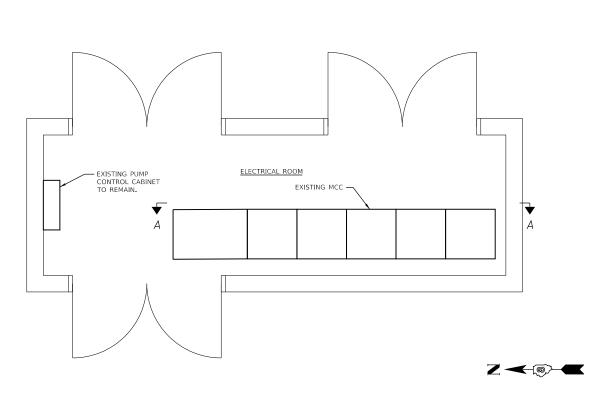
NTS

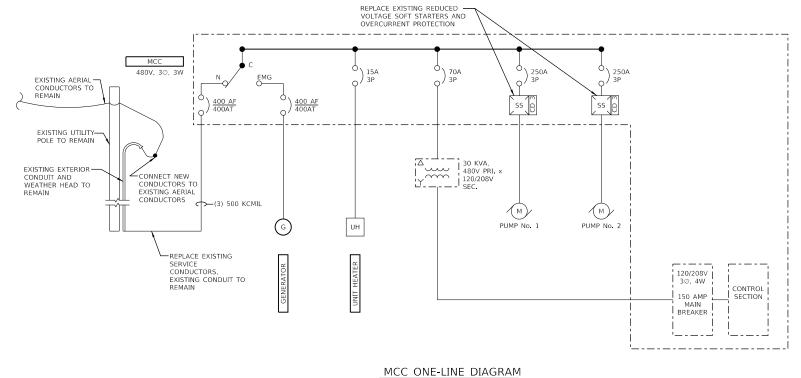
WER NAME = ams

8 ASSOCIATES, P.C. COUNTY TOTAL SHEET NO.

MADISON 12 5 DESIGNED -REVISED -**GREY'S FARM PUMP STATION** SECTION STATE OF ILLINOIS DRAWN REVISED 255 60-(7,8)PS-1 Engineers • Architects • Surveyors 616 N.24TH ST. OUNCY, ILLINOIS 62301 217.223.3670 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738 PLOT DATE = 12/4/2019 **ELECTRICAL PLAN** CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 76L47 SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA. DATE ILLINOIS FED. AID PROJECT REVISED







ELECTRICAL ROOM PLAN VIEW

1/2" = 1'-0"

	SECTION B1				
				SECTION E1	
SECTION A1	SECTION B2	SECTION C1	SECTION D1		SECTION F1
				SECTION E2	
	SECTION B3				

SECTION A1: SERVICE ENTRANCE AND TRANSFER SWITCH

SECTION B1: ELECTRIC HEAT OCPD

SECTION B2: SPACE

SECTION B3: LIGHTING XFMR OCPD

 $\underline{\sf SECTION}$ C1: PUMP No. 1 MOTOR STARTER TO BE REPLACED UNDER THIS CONTRACT.

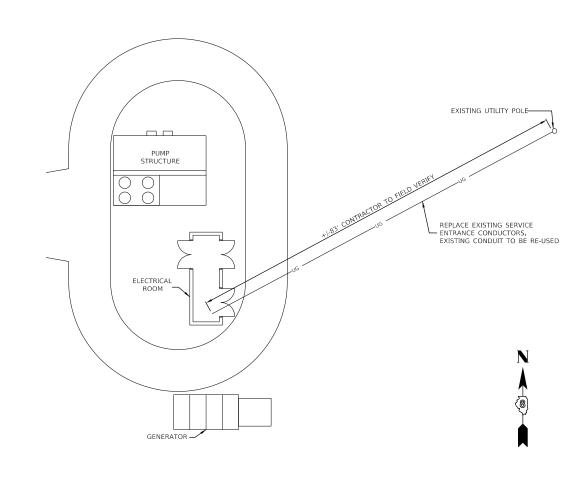
 $\underline{\text{SECTION D1}};$ PUMP No. 2 MOTOR STARTER TO BE REPLACED UNDER THIS CONTRACT.

SECTION E1: LIGHTING PANEL

SECTION E2: LIGHTING PANEL XFMR

SECTION F1: CONTROLS

A MCC ELEVATION NTS



ELECTRICAL SITE PLAM

3/32" = 1'-0"

_					_			
	SCAL	E: 1/2" = 1'-0"	SCALE: 3/32" = 1'-0"					
	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEI NO			
	255	60-(7,8)PS-1	MADISON	12	7			
			CONTRACT	NO. 7	6L4			

0 5' 10'

7	KLINGNER	ŀ
les	& ASSOCIATES, P.C.	ŀ
3:\17f	Engineers • Architects • Surveyors 616 N.24TH ST. QUINCY, ILLINOIS 62301 217.223.3670 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738	ŀ
- 1	STATE OF IEEMOIS DESIGN FIRMING, 104-2730	_

USER NAME = ams	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0:1 7/8 ':in / in.	CHECKED -	REVISED -
PLOT DATE = 12/4/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

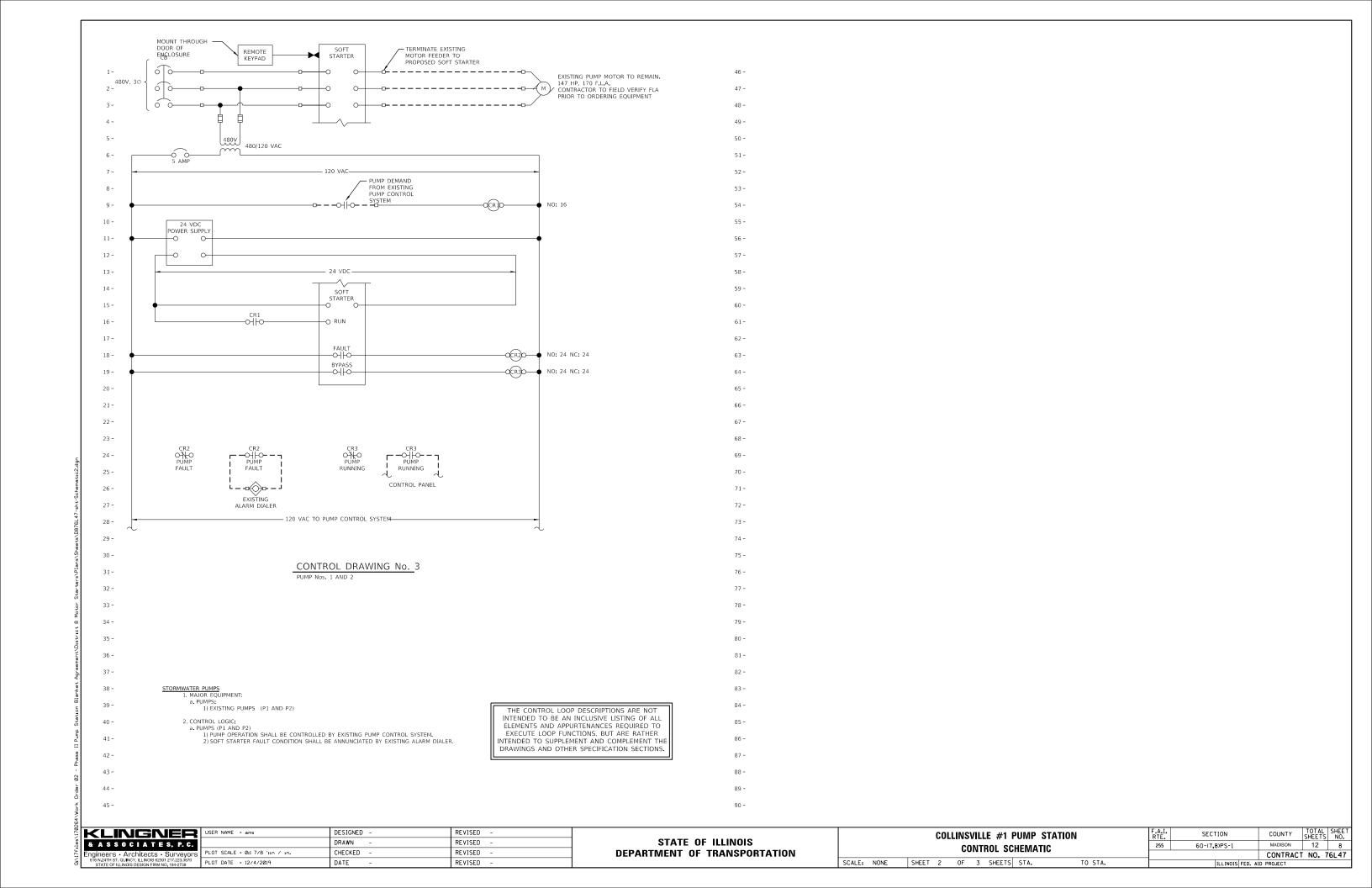
COLLINSVILLE #1 PUMP STATION

ELECTRICAL PLAN

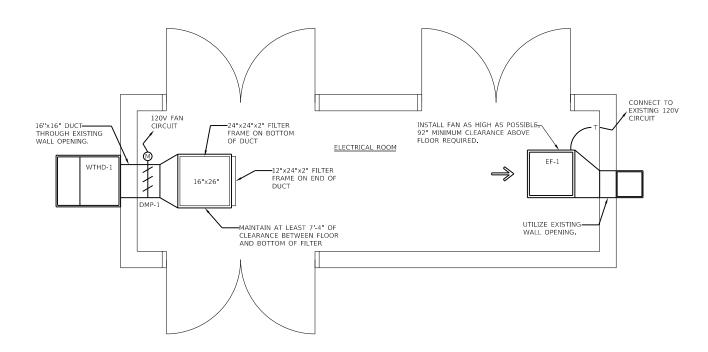
SCALE: NONE SHEET 1 OF 3 SHEETS STA. TO STA.

TO STA. | ILLINOIS FED. AID PROJECT

0 1' 2'



MECHANICAL DEMOLITION PLAN



PROPOSED MECHANICAL PLAN 1/2" = 1'-0"



	DAMPER	SCHEDULE		
TAG	TYPE	HEIGHT	WIDTH	COMMENTS
DMP-1	PARALLEL BLADE CONTROL DAMPER	16"	16"	1
COMMEN	rs			
1	PROVIDE WITH 120V, FAIL CLOSED ACTUA	ATOR		

1112	COMMENT
WTHD-1 90 DEGREE WEATHERHOOD 23" x 29"	
	1
COMMENTS	
1 PROVIDE WITH BIRDSCREEN	

VENTILATION SEQUENCE OF OPERATION 1. MAJOR EQUIPMENT: a. EXHAUST FAN (EX-1)

- b. SUPPLY CONTROL DAMPER (DMP-1) c. THERMOSTAT

- 2. CONTROL LOGIC:
 a. WHEN THE SPACE TEMPERATURE RISES ABOVE THE SETPOINT (80°F, ADJUSTABLE)
 1) THE SUPPLY CONTROL DAMPER SHALL OPEN.
 2) EXHAUST FAN SHALL TURN ON
 b. WHEN THE SPACE TEMPERATURE FALLS BELOW THE SETPOINT (80°F, ADJUSTABLE)
 1) THE SUPPLY CONTROL DAMPER SHALL CLOSE.
 2) EXHAUST FAN SHALL TURN OFF.





KLINGNER & ASSOCIATES, P.C. ngineers • Architects • Surveyors

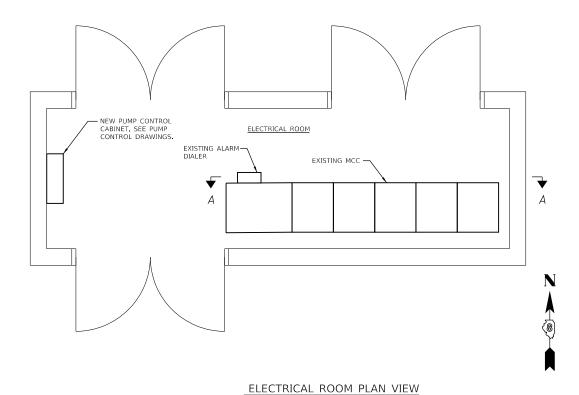
DESIGNED -REVISED USER NAME = ams DRAWN REVISED CHECKED REVISED PLOT DATE = 12/4/2019 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

COLLINSVILLE #1 PUMP STATION **VENTILATION CHANGES** SCALE: NONE SHEET 3 OF 3 SHEETS STA. TO STA.

COUNTY TOTAL SHEETS NO.

MADISON 12 9 SECTION 255 60-(7,8)PS-1 CONTRACT NO. 76L47 ILLINOIS FED. AID PROJECT



SECTION B1

SECTION A1 SECTION B2 SECTION C1 SECTION D1

SECTION B3

SECTION B3

SECTION A1: SERVICE ENTRANCE AND TRANSFER SWITCH

SECTION B1: ELECTRIC HEAT OCPD

SECTION B2: SPACE

SECTION B3: MAIN CIRCUIT BREAKER

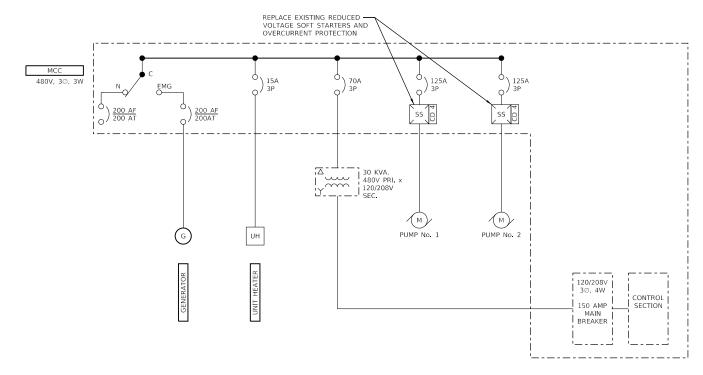
 $\underline{\text{SECTION C1}}.$ PUMP No. 1 MOTOR STARTER TO BE REPLACED UNDER THIS CONTRACT.

 $\underline{\text{SECTION D1}}\text{: PUMP No. 2 MOTOR STARTER TO BE REPLACED UNDER THIS CONTRACT.}$

SECTION E1: LIGHTING PANEL

SECTION E2: LIGHTING PANEL XFMR

SECTION F1: EXISTING PUMP CONTROLS SHALL BE REMOVED. INSTALL PAINTED STEEL COVER PLATES OVER FORMER DOOR OPENINGS.



MCC ONE-LINE DIAGRAM

A MCC ELEVATION

0 1' 2' 4' SCALE: 1/2" = 1'-0"

N		
1702	KLINGNER	USER
les	& ASSOCIATES, P.C.	
17f.	Engineers • Architects • Surveyors	PLOT
ö	616 N.24TH ST. QUINCY, ILLINOIS 62301 217.223.3670 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738	PLOT

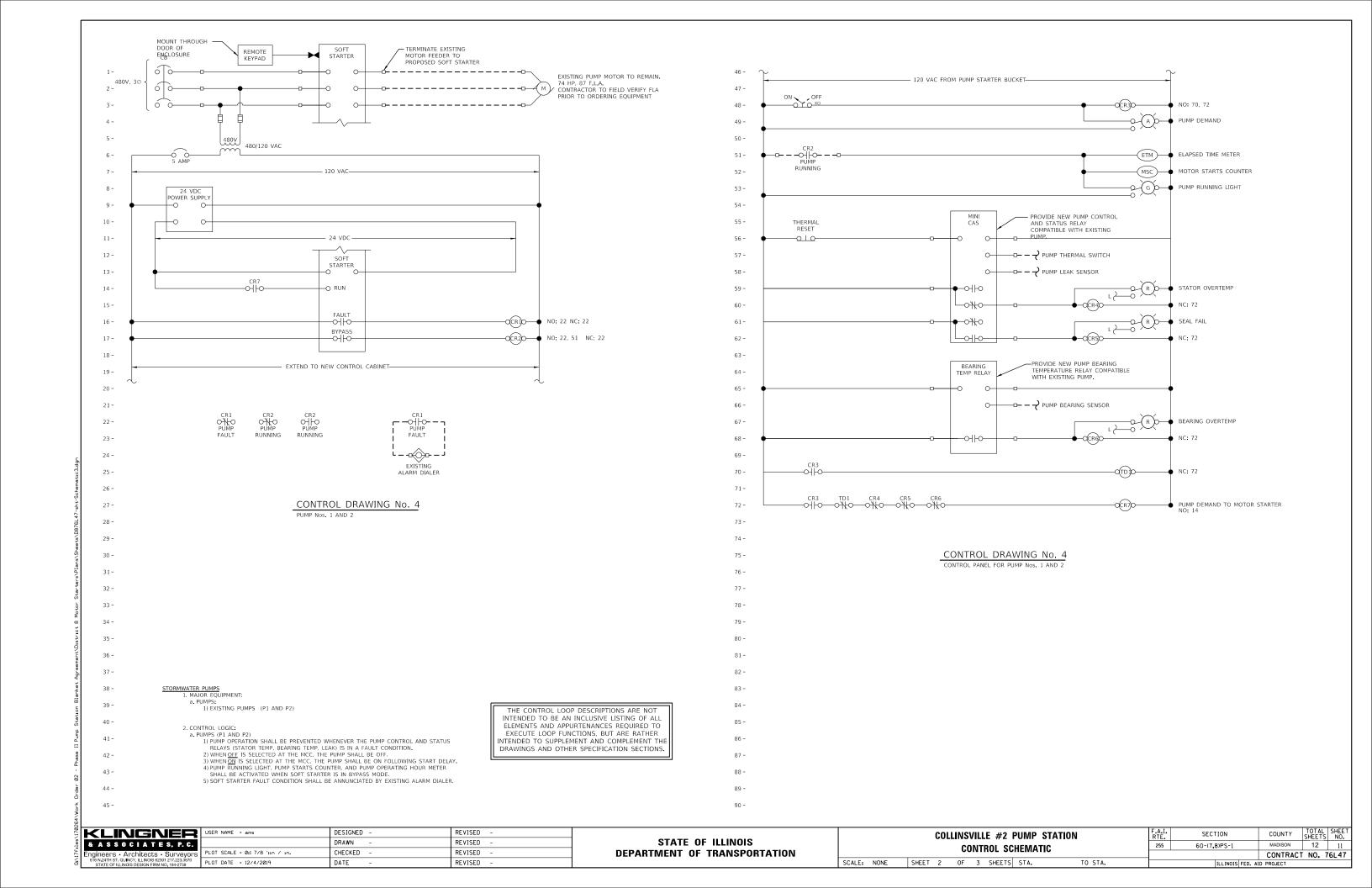
	USER NAME = ams	DESIGNED -	REVISED -
i		DRAWN -	REVISED -
3	PLOT SCALE = 0:1 7/8 ':in / in.	CHECKED -	REVISED -
	PLOT DATE = 12/4/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

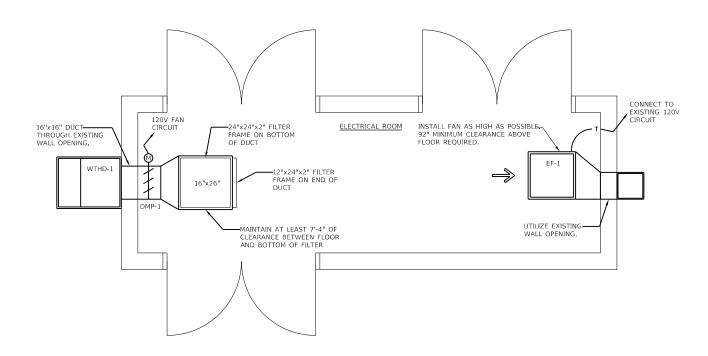
			CO				PUMP : L PLAN	STATION
SCALE:	NONE	SHEET	1	OF	3	SHEETS	STA.	TO STA.

SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
60-(7,8)PS-1	MADISON	12	10
	CONTRACT	NO. 7	6L47
THE INDIC FED. AT	ID DDO IECT		

F.A.I. RTE. 255



MECHANICAL DEMOLITION PLAN



PROPOSED MECHANICAL PLAN

1 PROVIDE WITH FACTORY MOUNTED DISCONNECT SWITCH 2 PROVIDE WITH INLET GUARD
3 PROVIDE WITH GRAVITY BACKDRAFT DAMPER 4 PROVIDE WITH HANGING NEOPRENE ISOLATORS AND ALL OTHER HANGING ACCESSORIES TO SUSPEND FAN FROM CEILING 5 PROVIDE WITH LINE VOLTAGE THERMOSTAT

FAN SCHEDULE

HP

RPM

MOTOR

VOLTS

PHASE

COMMENTS

PERFORMANCE

(INCHES WG)

0.75

CFM PRESSURE

3,033

TAG	TYPE	HEIGHT	WIDTH	COMMENTS
DMP-1	PARALLEL BLADE CONTROL DAMPER	16"	16"	- 1

TAG	TYPE	OPEN AREA	COMMENTS
WTHD-1	90 DEGREE WEATHERHOOD	23" x 29"	1

DIRECT DRIVE, CENTRIFUGAL INLINE EXHAUST FAN

VENTILATION SEQUENCE OF OPERATION

1. MAJOR EQUIPMENT:
a. EXHAUST FAN (EX-1)
b. SUPPLY CONTROL DAMPER (DMP-1) c. THERMOSTAT

2. CONTROL LOGIC:

a. WHEN THE SPACE TEMPERATURE RISES ABOVE THE SETPOINT (80°F, ADJUSTABLE)

1) THE SUPPLY CONTROL DAMPER SHALL OPEN.

2) EXHAUST FAN SHALL TURN ON

b. WHEN THE SPACE TEMPERATURE FALLS BELOW THE SETPOINT (80°F, ADJUSTABLE)

1) THE SUPPLY CONTROL DAMPER SHALL CLOSE.

2) EXHAUST FAN SHALL TURN OFF.





EASSOCIATES, P.C.

DESIGNED -REVISED USER NAME = ams DRAWN REVISED CHECKED REVISED PLOT DATE = 12/4/2019 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

COLLINSVILLE #2 PUMP STATION VENTILATION CHANGES SCALE: NONE SHEET 3 OF 3 SHEETS STA.

COUNTY TOTAL SHEETS NO.

MADISON 12 12 SECTION 255 60-(7,8)PS-1 CONTRACT NO. 76L47

TO STA. ILLINOIS FED. AID PROJECT