

- 1. 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 VERIEY 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.
- 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

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, UNLESS NOTED OTHERWISE.
- 10. THE DEPARTMENT RESERVES THE RIGHT TO NOTIFY THE CONTRACTOR TO CHANGE THE CONSTRUCTION SCHEDULE IF NEEDED TO ENSURE PROPER DEWATERING NEEDS FOR THE
- 11. THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, MWOMEN 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.
- 12. DURING DEMOLITION AND CONSTRUCTION, THE CONTRACTOR SHALL USE TRAFFIC CONTROL AND PROTECTION STANDARD 701201, AS DIRECTED BY THE ENGINEER.

STRUCTURAL NOTES

DESIGN LOADS: A. OCCUPANCY CATEGORY II B. ROOF LOADS I. DEAD LOAD = 100 PSF (SELF WEIGHT) II. * LIVE LOAD = 60 PSF C. ROOF SNOW LOAD

I. * GROUND SNOW LOAD, PG = 20 PSF

* DESIGN IS BASED ON MOST CRITICAL EFFECT OF ROOF LIVE LOAD OR ROOF SNOW LOAD.

D. WIND LOADING I. BASIC WIND SPEED (3 SECOND GUST) = 115 MPH II. EXPOSURE CATEGORY B III. IMPORTANCE FACTOR, IW = 1.0 IV. DIRECTIONAL FACTOR, KD = 0.85IW. TOPOGRAPHIC EFFECT, KZ = 1.0V. INTERNAL PRESSURE COEFFICIENT, GCPI = ± 0.55 (PARTIALLY ENCLOSED) SEISMIC LOADING - EQUIVALENT LATERAL FORCE PROCEDURE I.IMPORTANCE FACTOR, IE = 1.0 II.SITE CLASS D III.SDS = 0.199 (SS = 18.7%)IV.SD1 = 0.098 (S1 = 9.8%)V.SEISMIC DESIGN CATEGORY B VI.BASE SHEAR A. RESISTING SYSTEM - ORDINARY REINFORCED MASONRY SHEAR WALLS

B. RESPONSE COEFFICIENT, R = 2

C. DEFLECTION AMPLIFICATION FACTOR, CD = 1.75

D. SYSTEM OVERSTRENGTH FACTOR. Ω O = 2.5

E. BASE SHEAR, V = 0.099W

STRUCTURAL STEEL

- DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO THE AISC SPECIFICATIONS AND STANDARD CODE OF PRACTICE.
- 2. STEEL FABRICATION AND ERECTION SHALL FOLLOW OSHA REQUIRMENTS.
- STRUCTURAL STEEL:
 - a. STEEL ANGLES, RODS, AND PLATES ASTM A36 (Fy=36 ksi)
 - b. WASHERS ASTM F436
 - c. NUTS ASTM A563
 - d. ANCHOR BOLTS ASTM F1554 GRADE 36 (Fy=36 ksi)
- 4. ALL STEEL SHALL BE HOT DIPPED GALVANIZED.
- REPAIR GALVANIZED SURFACES PER ASTM A780.
- ALL STEEL SHALL BE FURNISHED IN ACCORDANCE WITH ARTICLE 505 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
- 7. EPOXY ANCHORS SHALL FOLLOW ARTICLE 584 OF THE STANDARD SPECIFICATIONS.

MASONRY

- ALL MASONRY SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (ACI 530/ASCE 5/TMS 402) AND "SPECIFICATIONS FOR MASONRY STRUCTURES" (ACI 530.1/ASCE 6/TMS 602).
- GROUT TO FILL CORES SHALL BE ASTM C476, COARSE GROUT (3/8" MAXIMUM AGGREGATE) WITH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 28 DAYS.
- CONCRETE MASONRY UNITS SHALL BE UNITS CONFORMING TO ASTM C90, GRADE N, TYPE I, NORMAL WEIGHT (DENSITY OF UNIT=135 pcf), MIN. BLOCK COMPRESSIVE STRENGTH = 2400 psi, SPECIFIED DESIGN STRENGTH OF MASONRY fm'=1500
- ASTM C270 TYPE "S" MORTAR WITH A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI SHALL BE USED FOR ALL MASONRY
- REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.
- ALL CORES WITH REINFORCEMENT SHALL BE FILLED SOLID WITH GROUT. PLACE REINFORCEMENT BARS BEFORE GROUTING. CONSOLIDATE GROUT BY MECHANICAL VIBRATION.
- PROPERLY SECURE VERTICAL REINFORCEMENT BARS TO ENSURE BAR IS LOCATED IN THE CENTER OF THE CMU CELL
- ALL CMU SHALL BE TEMPORARILY BRACED DURING CONSTRUCTION. TEMPORARY BRACING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. COST SHALL BE INCLUDED IN "MASONRY WALL CONSTRUCTION". THE CONTRACTOR IS RESPONSIBLE FOR ALL COST ASSOCIATED WITH REPAIRS RESULTING FROM IMPROPER OR INSUFFICIENT BRACING
- THE COST OF THE EXISITING BRICK MASONRY DEMOLITION SHALL BE INCLUDED IN "MASONRY REMOVAL".

PRECAST STRUCTURAL CONCRETE

- PRECAST STRUCTURAL CONCRETE CONSTRUCTION SHALL CONSIST OF THE DESIGN, MANUFACTURE, TRANSPORTATION, AND ERECTION OF THE STRUCTURAL PRECAST ROOF PANEL.
- DESIGN OF PRECAST MEMBERS SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF 1042 OF THE STANDARD SPECIFICATIONS
- PRECAST MEMBERS MAY BE CONVENTIONALLY REINFORCED AND/OR PRESTRESSED, CONSISTENT WITH THE DESIGN LOADS, SPANS, HANDLING STRESSES, ETC. DESIGN LOADS ARE SHOWN ON
- PRECAST CONTRACTOR SHALL FURNISH COMPLETE DESIGN CALCUALTIONS SIGNED BY A LICENSED STRUCTURAL ENGINEER LICENSED IN ILLINOIS. INCLUDING DETAILS OF CONNECTIONS.
- PRECAST CONTRACTOR SHALL FURNISH AND PLACE ANY TEMPORARY SHORING, BRACING, ETC. REQUIRED FOR ERECTION OF PRECAST WORK.
- PRECAST CONTRACTOR SHALL FURNISH ALL THREADED INSERTS, LIFTING ANCHORS, LIFTING COVERS, ETC.. REQUIRED TO CONNECT THE PRECAST TO THE STRUCTURAL STEEL ANGLES.
- PRECAST MANUFACTURER SHALL CAST IN STRUCTURAL INSERTS AND LIFTING ANCHORS AS SHOWN ON THE STRUCTURAL DESIGN PLANS.

⚠ REVISED SHEET 6-3-2019

COUNTY

LOGAN 5 2

CONTRACT NO. 46528

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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SECTION **GENERAL NOTES** 320 D6 PUMP STATION 2019 SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA. ILLINOI S FED AID PROJECT

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

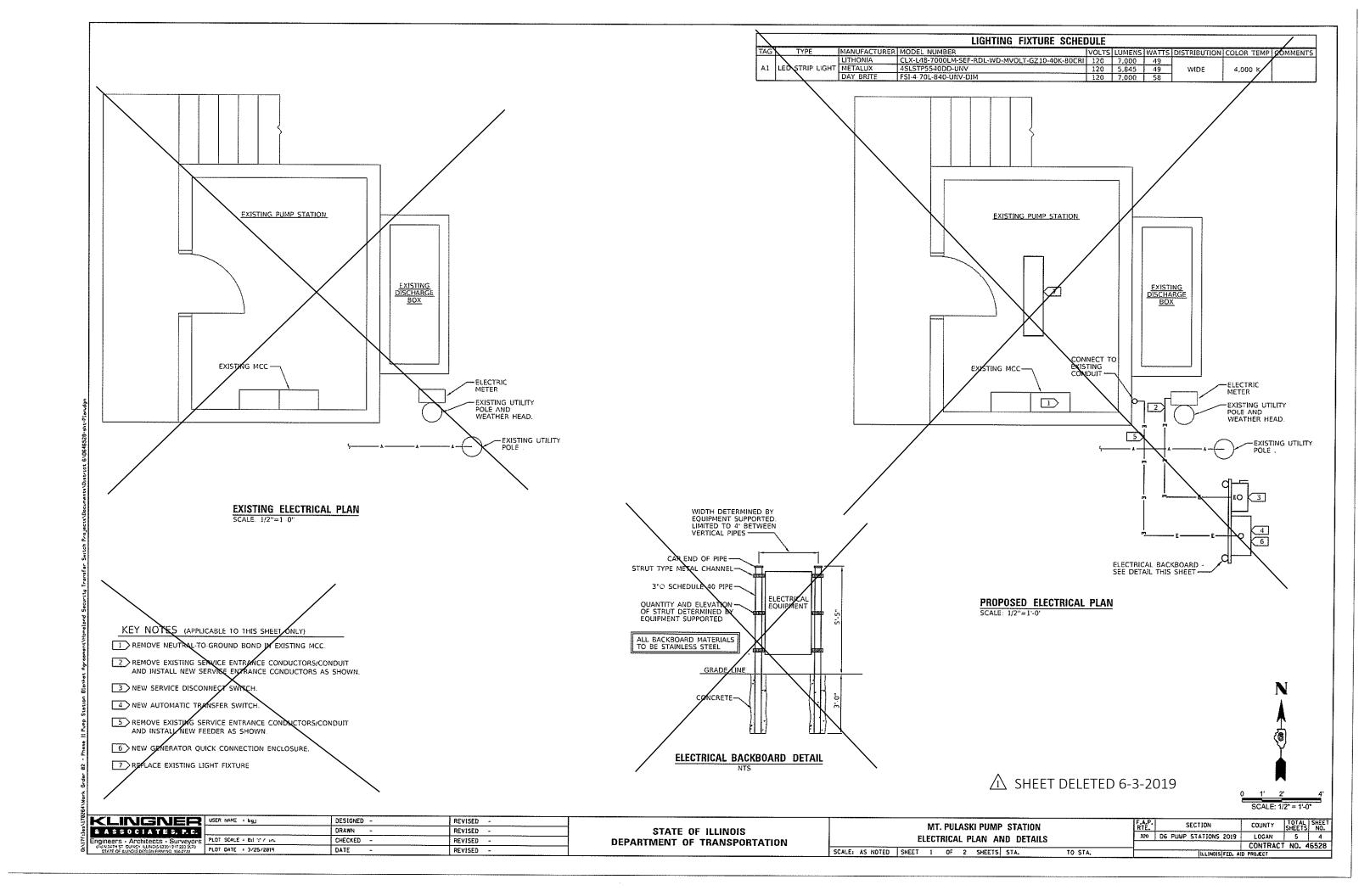
		1 1111				
			100% STATE	CONSTR	RUCTION TYPE	CODE
- Marine III				LOGAN		
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0044		
67100100	MOBILIZATION	L SUM	1	1		
X0325528	REMOVE AND REINSTALL LIGHTING EQUIPMENT	1 CLIM	1	7	N. I. P. G. L.	
X0323326	REMOVE AND REINSTALL LIGHTING EQUIPMENT	L SUM	1	1		
X0783300	PUMP STATION ELECTRICAL WORK	L SUM	1	1		
			mm		N	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1 1	1	3	
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	186	186	3	
58700300	CONCRETE SEALER	SQ FT	330	330	3	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	3	**************************************
X0335700	PUMP STATION GENERAL WORK	L SUM		1	3	
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	0.8	0.8	3	
Z0034100	MASONRY WALL CONSTRUCTION	SQ FT	130	130		
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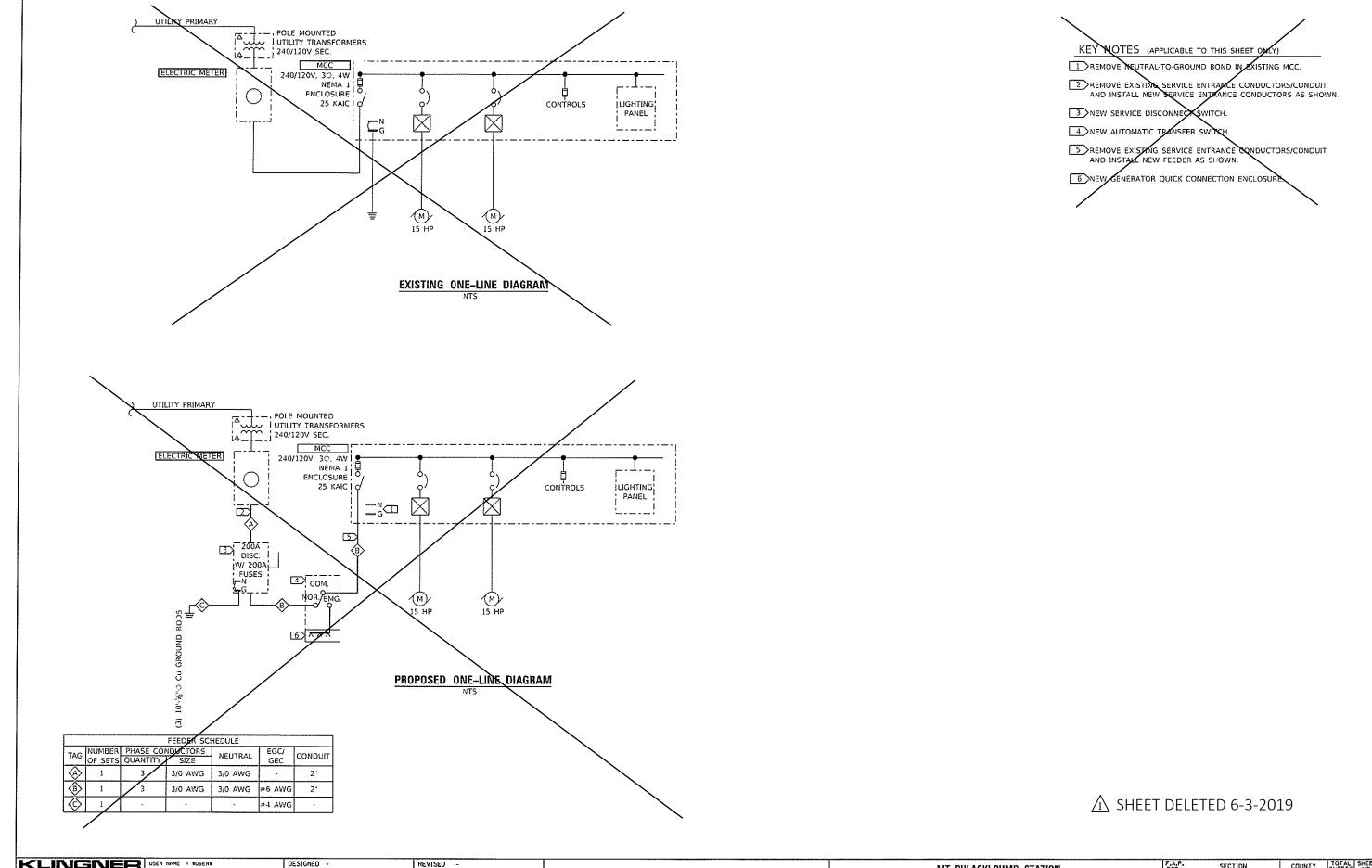
⚠ REV. 6-3-2019

KLINGNER	U!
& ASSOCIATES. P.C.	
Engineers · Architects · Surveyors	?
616 N.Z4TH ST, GUBNOY, JULINOIS 62301 217,223,3870 STATE DE NUNCHS DESIGN FIRM NO. 184,2733	2

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BASSOCIATES.P.C.

Engineers - Architects - Surveyors

on HAM 15 (JOHN SKILLE) 17 723 JUTO
1574 OF RENOSDESSEN SKINLO 164273 PLOT DATE 4 - SCALES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MT. PULASKI PUMP STATION

ELECTRICAL ONE—LINE DIAGRAM

SCALE: NONE SHEET 2 OF 2 SHEETS STA. TO STA.

ELECTRICAL SYMBOLS

LOW-VOLTAGE CIRCUIT BREAKER. RATING AND NUMBER OF POLES AS SHOWN

-

FUSE: SIZE AND NUMBER OF FUSES AS NOTED

QUANTITY AS INDICATED

NON-FUSED SWITCH: CURRENT RATING, AND NUMBER OF POLES INDICATED

DISCONNECT OR DRAWOUT CONNECTION

COMBINATION MOTOR STARTER MOTOR CONTROLLER AND SEPARATELY MOUNTED MOTOR CONTROLLER WITH SHORT CIRCUIT PROTECTION AND

DISCONNECT

MOTOR STARTER AND CONTROLLER SUBSCRIPTS:
A- MOTOR STARTER NEMA SIZE
B-STARTER TYPE
FVNR- FULL VOLTAGE NON-REVERSING
FVR- FULL VOLTAGE REVERSING
2S- TWO SPEED
RVAT- REDUCED VOLTAGE AUTO TRANSFORMER
CD- CONTROL DIAGRAM
D- CONTROLLER TYPE
VFD- VARIABLE FREQUENCY DRIVE
SS- SOLID STATE

3 1 NUMBER OF POLES AS NOTED

FUSED DISCONNECT OR SAFETY SWITCH, X INDICATES SIZE, Y INDICATES FUSE SIZE, AND NUMBER OF POLES AS NOTED

SEPARATELY MOUNTED CIRCUIT BREAKER

M 60 HP MOTOR WITH DESIGN HORSEPOWER

△ 3-PHASE, 3 WIRE DELTA CONNECTION Y 3-PHASE, 4 WIRE WYE CONNECTION

 $\exists \vdash$

VOLTAGE TRANSFORMER (VT OR PT)

CURRENT TRANSFORMER

СВ

G

TVSS

TRANSIENT VOLTAGE SURGE SUPPRESSOR

S РΒ

SELECTOR SWITCH PUSH BUTTON



INSTRUMENTATION/CONTROL DEVICE



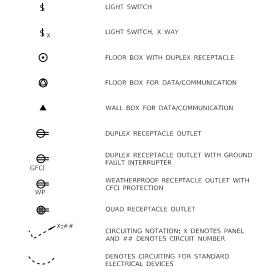
CONTROL PANEL

0 1

JUNCTION BOX THERMOSTAT

PANELBOARD (LESS THAN 250V)

ELECTRICAL SYMBOLS



CONTROL SYMBOLS

3-POSITION SELECTOR SWITCH, MAINTAINED CONTACTS

NORMALLY OPEN PUSHBUTTON, MOMENTARY CONTACT

NORMALLY CLOSED PUSHBUTTON, MOMENTARY CONTACT

INDICATING LIGHT, X INDICATES COLOR

W-WHITE A- AMBER

SCALE: NONE

PUSH TO TEST INDICATING LIGHT, X INDICATES COLOR

THERMAL OVERLOAD ELEMENT THERMAL OVERLOAD ELEMENT RELAY CONTACT

LENS COLOR: R- RED G- GREEN

ELAPSED TIME METER

MOTOR STARTS COUNTER

B-BLUE

SOLENOID VALVE



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MSC

⚠ SHEET ADDED 6-3-2019

KLINGNER & ASSOCIATES, P.C. igineers • Architects • Surveyor 316 N.24TH ST. QUINCY, ILLINOIS 62301 217.223.3670

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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
	ELECTRI	ICAL LEGEND		320	D6 PUMP STATION 2019	LOGAN	5	5A
						CONTRACT	NO. 4	6528
SHEET 1	0F 4 S	HEETS STA.	TO STA.		TILLINOIS FED. A	D PROJECT		

EXISTING ELECTRICAL PLAN

KEY NOTES (APPLICABLE TO THIS SHEET ONLY)

- ☐ INSTALL NEW SERVICE ENTRANCE CONDUCTORS AS SHOWN
- $\hfill \hfill \hfill$
- 3 NEW SERVICE DISCONNECT SWITCH.
- 4 NEW AUTOMATIC TRANSFER SWITCH.
- 5 INSTALL NEW FEEDER AS SHOWN.
- 6 NEW GENERATOR QUICK CONNECTION ENCLOSURE.
- REMOVE EXISTING LIGHT FIXTURE AND PREPARE CIRCUIT FOR RE-USE.
- 8 NEW MCC. MODIFY EXISTING HOUSEKEEPING PAD IF NECESSARY TO ACCOMMODATE NEW MCC DIMENSIONS.
- The second of the salvaged and re-installed.
- 10) REMOVE/REINSTALL EXISTING CONDUIT AND ELECTRICAL EQUIPMENT LOCATED ON ROOF AND UPPER WALLS AS NECESSARY TO FACILITATE BUILDING MODIFICATIONS.

GENERAL NOTES

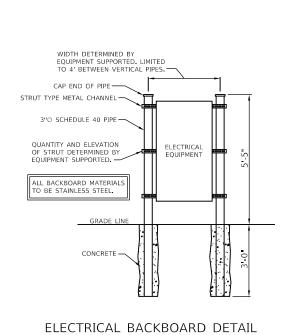
- EXISTING ELECTRICAL EQUIPMENT, CIRCUITS, AND CONDUITS NOT NOTED TO BE MODIFIED SHALL REMAIN AND BE RECONNECTED TO NEW ELECTRICAL EQUIPMENT AS APPLICABLE, THIS INCLUDES BUT IS NOT LIMITED TO WATER LEVEL MEASUREMENT SYSTEM, RECEPTACLES, AND LOWER LEVEL LIGHTING.
- LEVEL MEASUREMENT SYSTEM, RECEPTACLES, AND LOWER LEVEL DIGHTING.

 2. AN ELECTRICAL SHOCK AND ARC FLASH HAZARD ANALYSIS SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST VERSION OF NFPA-70E AND IEEE-1584 FOR ALL OWNER OWNED EQUIPMENT FROM THE SERVICE ENTRANCE UP TO AND INCLUDING THE MCC. WRITTEN RESULTS OF THE ANALYSIS SHALL BE PROVIDED TO THE OWNER AND NFPA-70 E COMPLIANT ARC FLASH WARNING LABELS APPLIED TO THE EQUIPMENT. MINIMUM INFORMATION REQUIRED FOR LABELS IS AS FOLLOWS:

 A. VOLTAGE EXPOSURE

 B. LIMITED APPROACH BOUNDARY
 C. RESTRICTED APPROACH BOUNDARY
 D. INCIDENT ENERGY AT THE WORKING DISTANCE OR ARC FLASH PPE CATEGORY
 E. ARC FLASH PROTECTION BOUNDARIES
 F. REQUIRED PPE AND GLOVE RATING
 G. EQUIPMENT NAME
 H. DATE PREPARED

- H. DATE PREPARED



PROPOSED ELECTRICAL PLAN

<u>_____A2</u>,

EXISTING PUMP STATION

WITHIN MCC.

PNB-3

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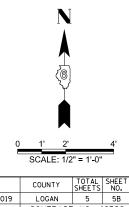
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TO MCC

[5]

- EXISTING UTILITY POLE AND WEATHER HEAD TO REMAIN.

EXISTING UTILITY POLE TO REMAIN.



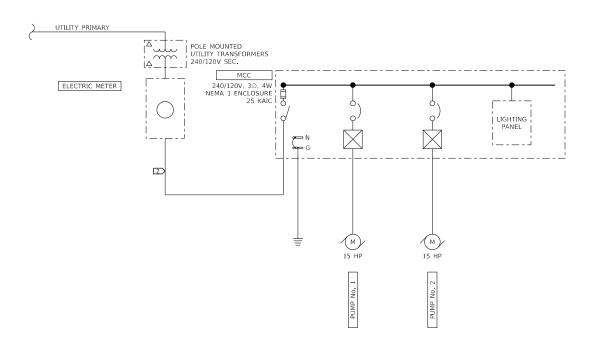
CONTRACT NO. 46528

1/10	KLINGNER
iles	& ASSOCIATES, P.C.
	Engineers • Architects • Surveyors 616 N.24TH ST. QUINCY, ILLINOIS 62301 217.223.3670
2	STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

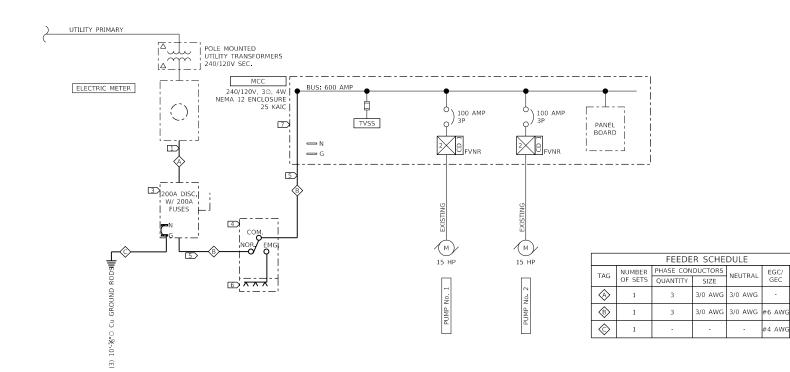
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

						F.A.P. RTE.	SECTION	
	ELI	ECTRICAL	PLAN A	AND DE	TAILS	320	D6 PUMP STATION 2019	Γ
								Г
SCALE: 1/2" = 1'-0	SHEET 2	OF 4	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ĪD



EXISTING ONE-LINE DIAGRAM



PROPOSED ONE-LINE DIAGRAM

KEY NOTES (APPLICABLE TO THIS SHEET ONLY)

☐ INSTALL NEW SERVICE ENTRANCE CONDUCTORS AS SHOWN.

REMOVE EXISTING SERVICE ENTRANCE CONDUCTORS/CONDUIT DOWNSTREAM OF EXISTING METER.

3 NEW SERVICE DISCONNECT SWITCH.

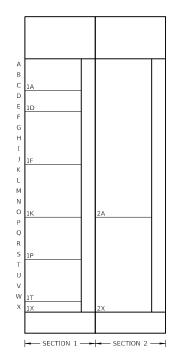
4 NEW AUTOMATIC TRANSFER SWITCH.

5 INSTALL NEW FEEDER AS SHOWN.

6 NEW GENERATOR QUICK CONNECTION ENCLOSURE.

SCALE: NONE

7 NEW MCC



PROPOSED MCC ELEVATION

NTS

					MC		СН	ΙΕΓ) I II	F											
ID					MO	А	UX LKS	F	USI	C	SE	TROL	TOR	_	S NDIC LIG			0	THE	:R	
SECTION	CELL	STARTER, CLASS, OR DESCRIPTION	SIZE (INCHES)	CB TRIP/FUSE CLIPS (A)	HP RATING	NO	NC	START-STOP	FWD-REV-STOP	FAST-SLOW-STOP	HAND-OFF-AUTO	ON-OFF	FAST-OFF-SLOW	GREEN	RED	AMBER	PUSH TO TEST	ELAPSED TIME METER	MOTOR STARTS COUNTER	CURRENT SWITCH	NAMEPLATE IDENTIFICATIONS
1	Α	MAIN LUGS	9										T	t	1						MAIN LUGS
1	D	TVSS	6																		TVSS
1	F	COMB. FVNR STARTER	15	100	15						Х			X		Х	Х	Χ	Х	Χ	PUMP No. 1
1	K	COMB. FVNR STARTER	15	100	15						Х		Т	X		Х	Х	Х	Χ	Χ	PUMP No. 2
1	Р	SPACE	12																		SPACE
1	Т	SPACE	12																		SPACE
1	Х	SPACE	3																		SPACE
2	Α	RELAY SECTION	45																		CONTROLS
2	Х	PANELBOARD	27	100																	PANELBOARD

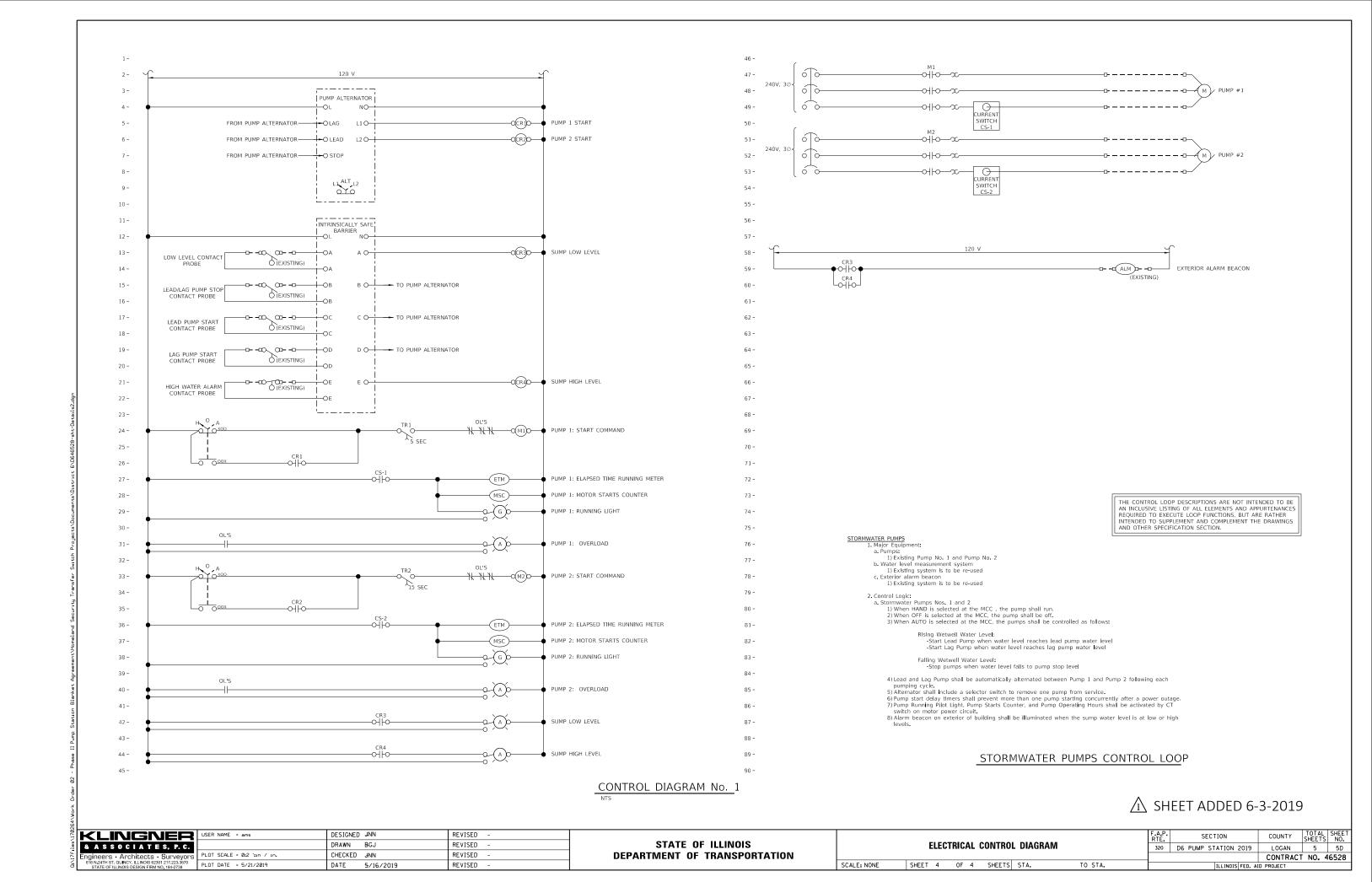
	PANELBOARD						Area	PUMP STATION	
	PANELBOARD						Served	l:	
Location:				100 A	120/240 \	1 Ph	3 Wire	100AMP MAIN BREAKER	
MCC				Fault Ra	ting: 25,0	000			
		Brkr.		Lo	ad		Brkr.	•	
No.	Description	Amps	Α	В	В	Α	Amps	Description	No
1	PANEL HEATERS	20	400			100	20	LEVEL MEASUREMENT	2
3	LIGHTS	20		500	100		20	CONTROLS	4
5	RECEPTACLES	20	720			100	20	ALARM BEACON	6
7	SPARE	20					20	SPARE	8
9	SPARE	20					20	SPARE	10
11	SPACE							SPACE	12
13	SPACE							SPACE	14
15	SPACE							SPACE	16
17	SPACE							SPACE	18
			1120	500	100	200			
	Totals	Phas	se A	Pha	se B	Total Wa	ttage(V	A) Capacity	
		13:	20	60	0	19	920	24000	

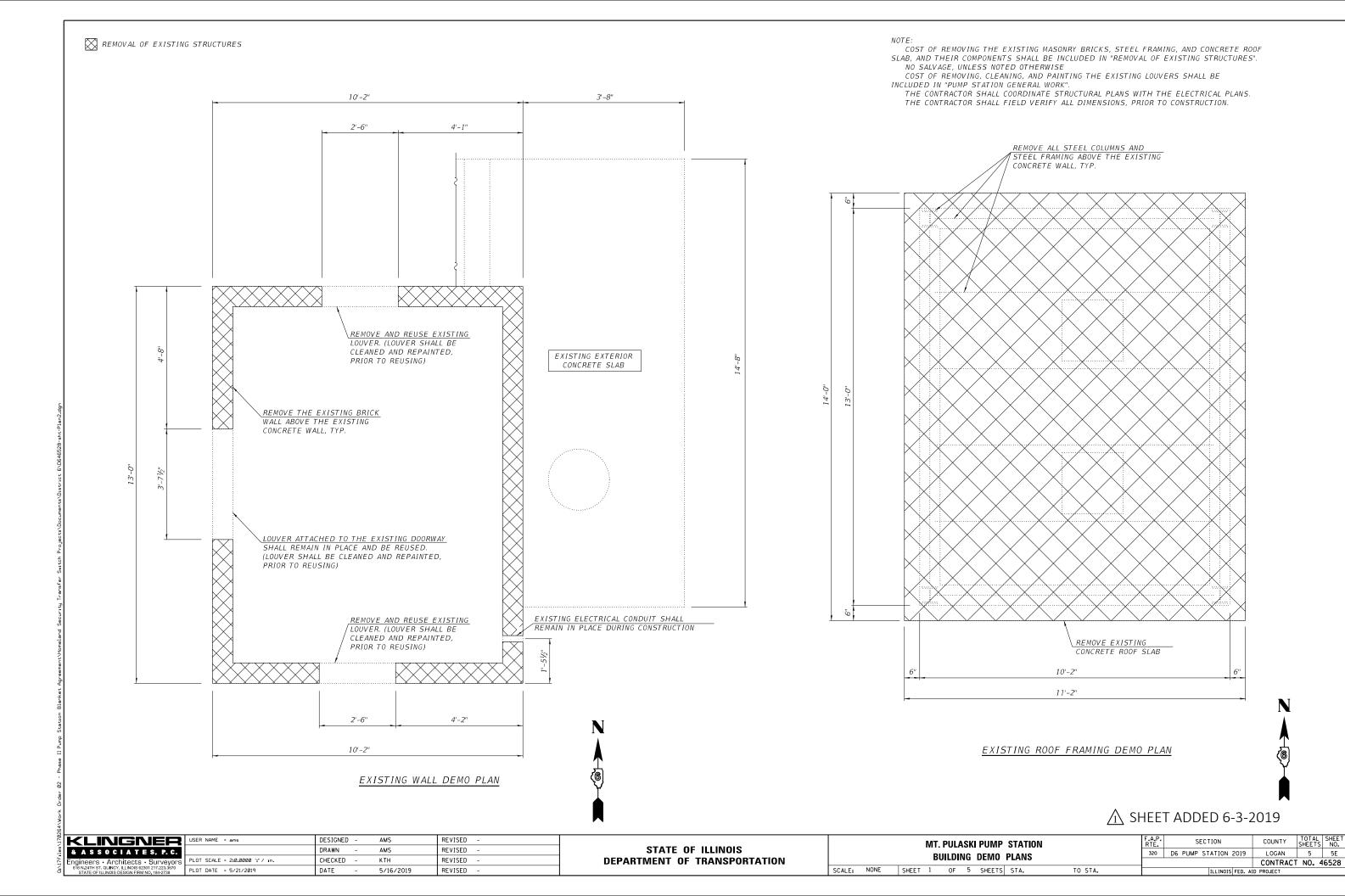
	LIGHTING FIXTURE SCHEDULE										
TAG	TYPE	MANUFACTURER	MODEL NUMBER	VOLTS	LUMENS	WATTS	DISTRIBUTION	COLOR TEMP	COMMENTS		
		LITHONIA	CLX-L48-7000LM-SEF-RDL-WD-MVOLT-GZ10-40K-80CRI	120	7,000	49					
A1	LED STRIP LIGHT	METALUX	4SLSTP5540DD-UNV	120	5,845	49	WIDE	4,000 K			
		DAY BRITE	FSI-4-70L-840-UNV-DIM	120	7,000	58					
		LITHONIA	OLWX1 LED 20W 40K PE	120	2,697	20			PROVIDE WITH INTEGRAL		
A2	LED WALL PACK	LUMARK	XTOR2B	120	2,135	18		4,000 K	PHOTOCELL. DARK BRONZE		
		RAB	SLIM18N/PC	120	2,556	18	7		FINISH.		
		•			•	•					

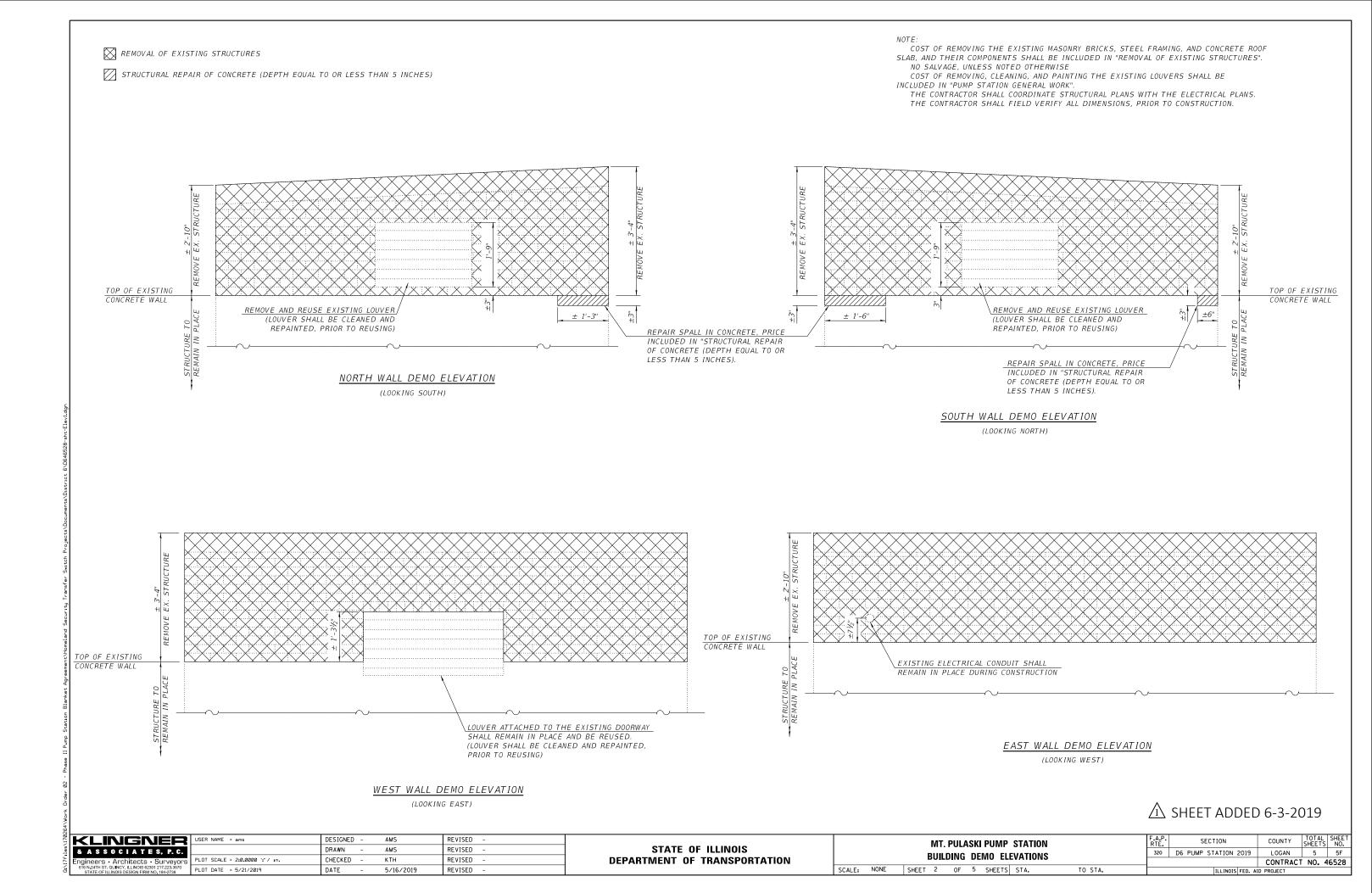
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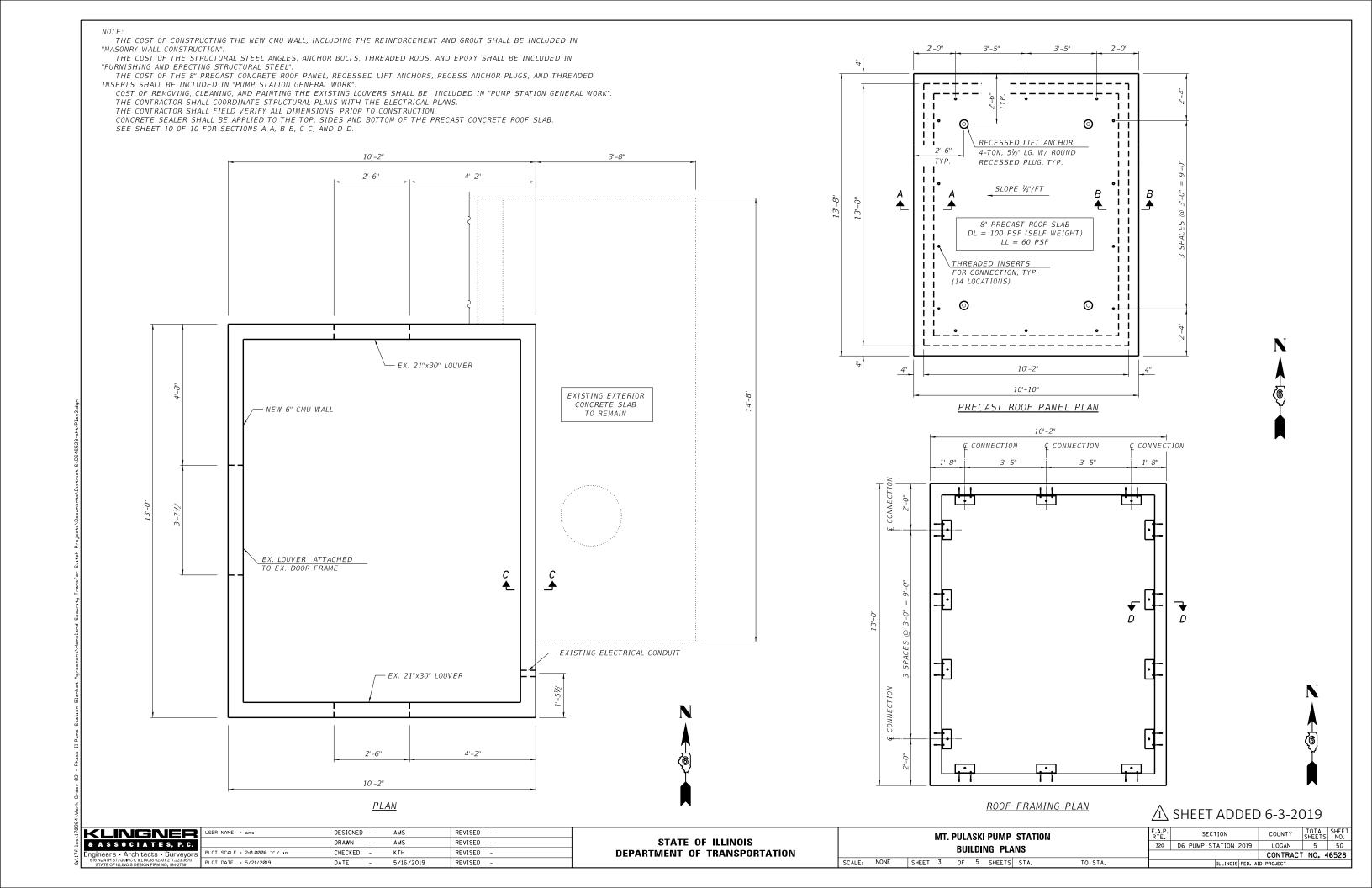


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THE COST OF CONSTRUCTING THE NEW CMU WALL, INCLUDING THE REINFORCEMENT AND GROUT SHALL BE INCLUDED IN "MASONRY WALL CONSTRUCTION".

"MASONRY WALL CONSTRUCTION".

THE COST OF THE STRUCTURAL STEEL ANGLES, ANCHOR BOLTS, THREADED RODS, AND EPOXY SHALL BE INCLUDED IN
"FURNISHING AND ERECTING STRUCTURAL STEEL".

THE COST OF THE 8" PRECAST CONCRETE ROOF PANEL, RECESSED LIFT ANCHORS, RECESS ANCHOR PLUGS, AND THREADED
INSERTS SHALL BE INCLUDED IN "PUMP STATION GENERAL WORK".

COST OF REMOVING, CLEANING, AND PAINTING THE EXISTING LOUVERS SHALL BE INCLUDED IN "PUMP STATION GENERAL WORK".

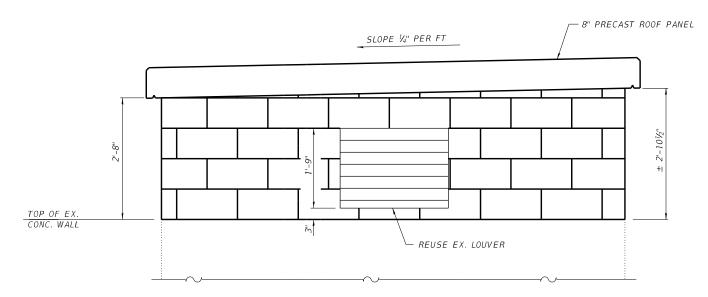
THE CONTRACTOR SHALL COORDINATE STRUCTURAL PLANS WITH THE ELECTRICAL PLANS.

THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, PRIOR TO CONSTRUCTION.

CONCRETE SEALER SHALL BE APPLIED TO THE TOP, SIDES, AND BOTTOM OF THE PRECAST CONCRETE ROOF PANEL.

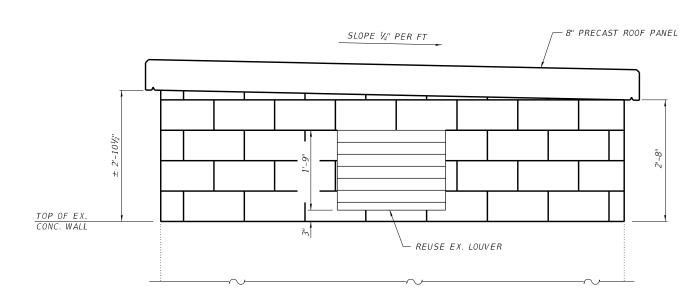
MASONRY WALL FINISH AND COLOR SHALL BE SELECTED BY THE "OWNER"

MASONRY UNITS SHALL BE FABRICATED WITH INTEGRAL WATER REPELLANT ADDITIVE.



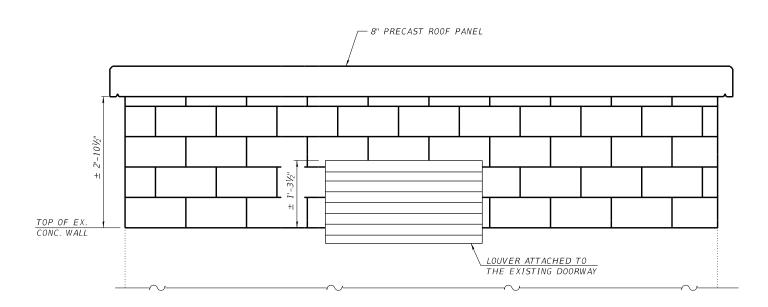
NORTH ELEVATION

(LOOKING SOUTH)



SOUTH ELEVATION

(LOOKING NORTH)



- 8" PRECAST ROOF PANEL TOP OF EX. EXISTING ELECTRICAL CONDUIT SHALL

<u>WEST ELEVATION</u>

(LOOKING EAST)

EAST ELEVATION

(LOOKING WEST)

⚠ SHEET ADDED 6-3-2019

KLINGNER	I
& ASSOCIATES, P.C.	ŀ
Engineers • Architects • Surveyors	l
616 N.24TH ST. QUINCY, ILLINOIS 62301 217.223.3670 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738	Γ

USER NAME = ams	DESIGNED	-	AMS	REVISED -
	DRAWN	-	AMS	REVISED -
PLOT SCALE = 2:0.0000 ':' / in.	CHECKED	-	KTH	REVISED -
PLOT DATE = 5/21/2019	DATE	-	5/16/2019	REVISED -
PLUI DATE = 5/21/2019	DATE	-	5/16/2019	KENIZED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

MT. PULASKI PUMP STATION									
	BUILDING ELEVATIONS								
SCALE:	NONE	SHEET	4	OF	5	SHEETS	STA.	TO STA.	

CONTRACT NO. 46528								
320	D6	PUMP	STATION	2019	LOGAN	5	5H	
RTE.		S	ECTION		COUNTY	SHEETS	NO.	

