

LEDGEND (PLAN SYMBOLS FOR BLDGS. C-100, 101, 200, 400, 710, 720 & 750) (PLAN SYMBOLS FOR BLDG. C-635 & 6 ARE SHOWN ON DWG. ESE-14179-002)

ELECTRICAL WORK REFERENCE DRAWING LIST

BUILDING NO	BUILDING NAME	PLAN DRAWING NO
C-100	ADMINISTRATION BLDG.	ESE-14951-0002
C-101	CAFETERIA	ESE-14951-0002
C-200	FIRE AND GUARD	ESE-14951-0003
C-400	CLEANING BLDG.	ESE-14951-0004 ESE-14951-0005 ESE-14951-0006 ESE-14951-0007
C-635-6	PUMP HOUSE	ESE-14179-0001 ESE-14179-0002 ESE-14179-0003
C-710	TECHNICAL SERVICES	ESE-14951-0009
C-720	MAINTENANCE & STORES	ESE-14951-0010 ESE-14951-0011 ESE-14951-0012 ESE-14951-0013
C-750	GARAGE	ESE-14951-0015
	VALVE PITS NO 200, 400, 720, 750	ESE-14179-0005

- NEW CONDUIT & WIRE (EXPOSED)
- - - - EXISTING CONDUIT WITH NEW WIRE AS INDICATED
- - E - - EXISTING CONDUIT WITH EXISTING WIRE TO REMAIN (FOR REFERENCE ONLY)
- - R - - EXISTING CONDUIT & WIRE TO BE REMOVED
- CONDUIT (NOTE 2)
- GROUNDING CONDUCTOR (NOTE 3)
- POWER WIRES (NOTE 4)
- CONTROL WIRES (NOTE 5)
- ☒ NEW COMBINATION - MAGNETIC MOTOR STARTER WITH CIRCUIT BREAKER DISCONNECT.
- ☒ EXISTING COMBINATION - MAGNETIC MOTOR STARTER WITH CIRCUIT BREAKER DISCONNECT TO REMAIN. CONTROL WIRING TO BE MODIFIED PER NEW ELEMENTARY DIAGRAMS.
- ☐ NEW ELECTRIC THERMOSTAT
- ☐ EXISTING ELECTRIC THERMOSTAT TO REMAIN. (CONNECT PER NEW ELEMENTARY DIAGRAMS)
- ☐ EXISTING LIMIT SWITCH
- ☐ NEW JUNCTION BOX OR CONDUIT BODY
- ☐ EXISTING JUNCTION BOX OR CONDUIT BODY TO REMAIN.
- NEW HAND-OFF-AUTO SELECTOR SWITCH
- ☐ NEW NON-FUSED DISCONNECT SWITCH
- ☐ NEW MANUAL MOTOR STARTER SINGLE-PHASE FRACTIONAL HORSEPOWER
- Ⓜ MOTOR - SINGLE PHASE } NUMBER DENOTES HORSEPOWER
- Ⓜ MOTOR - THREE PHASE }

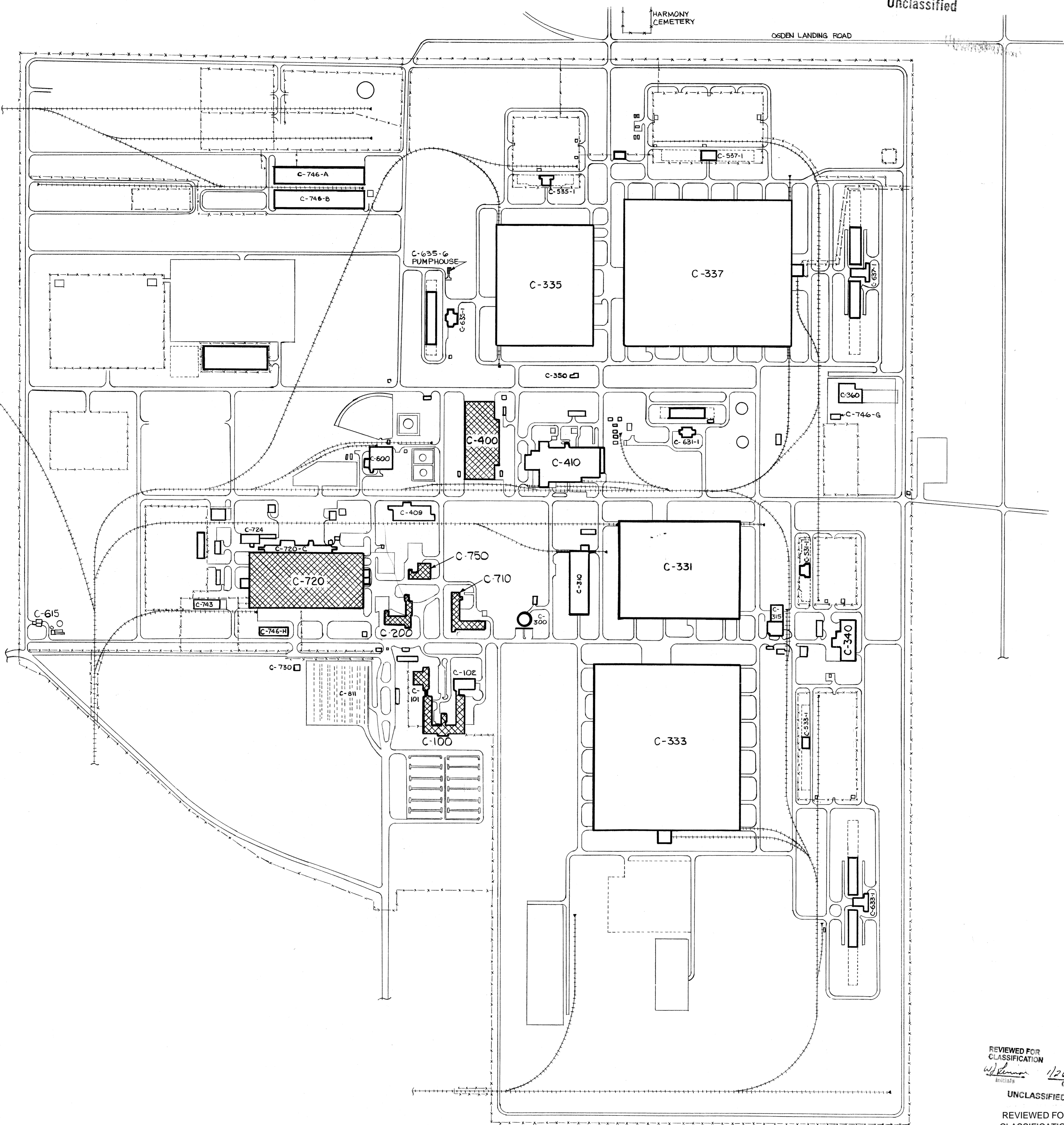
GENERAL NOTES

1. ALL CONTROL WIRING FOR NEW AND EXISTING EQUIPMENT TO BE CONNECTED AS INDICATED ON ELEMENTARY DIAGRAMS
2. NUMBERS IN DIAMOND SYMBOL ARE TYPICAL ELEMENTARY DIAGRAMS SHOWN ON DRAWINGS ESE-14951-0016 & 0017. DETAIL INFORMATION FOR INDIVIDUAL EQUIPMENT DEVICES ARE LISTED IN SCHEDULE UNDER SCHEME NUMBERS.
3. ALL CONDUIT TO BE 3/4" MINIMUM UNLESS OTHERWISE NOTED
4. ALL GROUNDING CONDUCTORS TO BE #12 AWG, MINIMUM UNLESS OTHERWISE INDICATED.
5. ALL POWER WIRES FOR 460, 200 AND 120 VOLT MOTORS TO BE #12 AWG, TYPE THWN MINIMUM UNLESS OTHERWISE NOTED.
6. ALL 120VOLT CONTROL WIRES TO BE #14 AWG AND INDICATED AS SHOWN IN LEGEND
7. NEW BRANCH CIRCUITS SERVED BY EXISTING LIGHTING & POWER PANELBOARDS:
 - a. CONTRACTOR (UCC-ND) WILL PROVIDE ALL MATERIAL AND DO ALL WORK IN EXISTING LIGHTING AND POWER PANELBOARDS. SUB-CONTRACTOR TO TERMINATE ALL NEW BRANCH CIRCUIT CONDUIT WITH A 6" X 6" X 4" HINGED COVER JUNCTION BOX LOCATED APPROX. 18" FROM SERVING PANELBOARD. BRANCH CIRCUIT CONDUCTORS TO BE COILED IN JUNCTION BOX FOR FINAL EXTENSION & CONNECTION BY UCC-ND.
 - b. SUB-CONTRACTOR TO PROVIDE GROUND SCREEN INSIDE NEW 6" X 6" X 4" JUNCTION BOX FOR TERMINATION OF NEW BRANCH CIRCUIT GROUNDING CONDUCTOR, EXTEND GROUNDING CONDUCTOR OUTSIDE RACEWAY SYSTEM TO NEAREST EXISTING GROUND GRID CABLE AND TERMINATE WITH 'CADWELD' OR EQUAL CONNECTION.

COMBINATION MOTOR STARTER & CIRCUIT BREAKER RATING SCHEDULE

VOLTAGE (3 PHASE)	MOTOR HORSEPOWER	STARTER NEMA SIZE	BREAKER TRIP RATING AMPS
200	2 AND BELOW	1	15
	3	1	20
	5	1	40
	7 1/2	1	50
460	3 AND BELOW	1	15
	5	1	20
	7 1/2	1	30
	10	1	35
	20	2	60

THE CIRCUIT BREAKER TRIP RATINGS ABOVE ARE SELECTED BASED ON THE 1978 NATIONAL ELECTRICAL CODE REQUIREMENTS FOR SQUIRREL-CAGE MOTORS WITHOUT CODE LETTERS.



REVIEWED FOR CLASSIFICATION
 Initials: *W. Noack* Date: 1/26/98

UNCLASSIFIED
 REVIEWED FOR CLASSIFICATION
 CRB 06/13/2014
 Initials: _____ Date: _____
 UNCLASSIFIED

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1	AS-BUILT	2/26/98	W. NOACK
0	CERTIFIED FOR CONSTRUCTION	3/27/79	D. G. CRAFTS
REV. NO.	ISSUE PURPOSE (FPEC-6279)	A.E. OPERATOR	DOE APPROVAL
UNITED STATES DEPARTMENT OF ENERGY A. M. KINNEY, INC. CONSULTING ENGINEERS CINCINNATI, OHIO <small>DOE CONTRACT NO. EW-78-C-05-5886 A/E PROJECT NO. 02436</small>			
ELECTRICAL SITE PLAN LEGEND AND GENERAL NOTES			
SUBMITTED - DATE	APPROVAL RECOMMENDED - DATE	DRAWING APPROVED - DATE	
2-16-79	2-27-79	3/27/79	
ARCHITECT-ENGINEER	OPERATOR	DOE-ENGINEER	
J. KOERNER	R. M. LANGDON	D. G. CRAFTS	
DATE	DATE	DATE	SCALE
10-26-79	2-4-79	2-4-79	1"=300'
PLANT	CHIEF	DATE	
PADUCAH	H. W. NOACK	2-4-79	
PROJECT	DRAWING NUMBER	REV. NO.	
PROCESS WASTE HEAT UTILIZATION	ESE-14951-0001	1	

