

UNCLASSIFIED

Unclassified

13.8 KV UNDERGROUND CABLE SCHEDULE

CUTTING LENGTH NO.	CABLE LENGTH	SIZE	TYPE	FROM MANHOLE NO.	TO MANHOLE NO.	PRIMARY CABLE CIRCUIT NO.	SUBSTATION NUMBER	SUBSTATION KVA	SECONDARY EMF	REMARKS
1	535	500 MCM	PILC	C31-PS	1	25C				MINIMUM 18" BY OTHERS SPALICE BY THIS CONTRACTOR
2	295	500 MCM	PILC	1	1	25C				
3	295	500 MCM	PILC	2	1	25C				
4	125	500 MCM	H	2	0 2	25C	C710-A	500/667	120/208V	DAY TYPE SUBSTATION
5	125	500 MCM	H	0 2	2	25C	C710 A			
6	340	500 MCM	PILC	1	3	25C				
7	340	500 MCM	PILC	8	1	25C				
8	160	500 MCM	H	3	01	25C	C100 B	500	120/208V	DAY TYPE SUBSTATION
9	160	500 MCM	H	01	3	25C	C100 B	500	120/208V	
10	840	500 MCM	PILC	1	5	25C				THIS LENGTH PASSES THRU MH#4 (NO SPALICE)
11	430	500 MCM	PILC	5	6	25C				
12	185	500 MCM	PILC	6	7	25C				
13	185	500 MCM	PILC	7	15	25C				
14	335	500 MCM	PILC	C31 PS	1	25C				MINIMUM 18" BY OTHERS SPALICE BY THIS CONTRACTOR
15	295	500 MCM	PILC	1	2	25C				
16	295	500 MCM	PILC	2	1	25C				
17	125	500 MCM	H	2	02	25C	710 B	500/667	120/208V	DAY TYPE SUBSTATION
18	125	500 MCM	H	02	2	25C				
19	340	500 MCM	PILC	1	3	25C				
20	340	500 MCM	PILC	3	1	25C				
21	150	500 MCM	H	3	01	25C	C100 A	500	120/208V	
22	150	500 MCM	H	01	3	25C	C100 A	500	120/208V	
23	540	500 MCM	PILC	1	5	25C				THIS LENGTH PASSES THRU MH#4 (NO SPALICE)
24	430	500 MCM	PILC	5	6	25C				
25	185	500 MCM	PILC	6	7	25C				
26	185	500 MCM	PILC	7	15	25C				

CUTTING LENGTH NO.	CABLE LENGTH	SIZE	TYPE	FROM MANHOLE NO.	TO MANHOLE NO.	PRIMARY CABLE CIRCUIT NO.	SUBSTATION NUMBER	SUBSTATION KVA	SECONDARY EMF	REMARKS
27	385	500 MCM	PILC	C31-QQ	14	26D				MINIMUM 18" BY OTHERS SPALICE BY THIS CONTRACTOR
28	375	500 MCM	PILC	14	11	26D				
29	135	500 MCM	H	11	24	26D				TERMINATE IN NY SPALICE BOX IN E 4
30	135	500 MCM	H	24	11	26D				TERMINATE IN NY SPALICE BOX IN E 4
31	200	500 MCM	PILC	11	12	26D				
32	575	500 MCM	PILC	12	8	26D				
33	300	500 MCM	PILC	8	9	26D				
34	65	500 MCM	H	9	01	26D	C600-B	1500	480V	DAY TYPE SUBSTATION
35	385	500 MCM	PILC	C31-RQ	14	26A				MINIMUM 18" BY OTHERS SPALICE BY THIS CONTRACTOR
36	375	500 MCM	PILC	14	11	26A				
37	200	500 MCM	PILC	11	12	26A				
38	140	500 MCM	PILC	12	13	26A				
39	440	500 MCM	PILC	13	12	26A				
40	575	500 MCM	PILC	12	8	26A				NOTE 2
41	300	500 MCM	PILC	8	9	26A				
42	65	500 MCM	H	9	01	26A	C6400 B	1500	2400V	DAY TYPE SUBSTATION
43	385	500 MCM	PILC	C31-QQ	14	26A				MINIMUM 18" BY OTHERS SPALICE BY THIS CONTRACTOR
44	375	500 MCM	PILC	14	11	26A				
45	135	500 MCM	H	11	24	26A				TERMINATE IN NY SPALICE BOX IN E 4
46	135	500 MCM	H	24	11	26A				TERMINATE IN NY SPALICE BOX IN E 4
47	200	500 MCM	PILC	11	12	26A				
48	575	500 MCM	PILC	12	8	26A				
49	300	500 MCM	PILC	8	9	26A				
50	200	500 MCM	PILC	7	6	26A				
51	430	500 MCM	PILC	6	5	26A				
52	75	500 MCM	H	5	6	26A				GANG OPERATED PAI SW (15KV, 400A) ON POLE "P 1" NOTE 9

NOTES

- SEE DWG 23-612-222 AND 223 FOR SPECIAL DETAILS
- SEE DWG 23-612-224 AND 225 FOR SPECIAL DETAILS
- TYPE "A" CABLE (FOR STATIC HAZARD) IS STANDARD PILC IMPREGUATED WITH A SUTURANT OR SUCH VISCOUSITY AS TO PREVENT BLEEDING BY CUTTING OR DRIPPING IN VERTICAL INSTALLATIONS
- FINAL, ACCURATE ELEVATIONS OF MANHOLES
- CONCRETE SHALL BE OBTAINED IN FIELD
- PROVIDE TRANSPOSITION ON ALL OVERHEAD WIRE AT POLES PER LOCATION
- PROVIDE WINDOW ONLY FOR NUMBER OF PICTS INDICATED
- SEE DWG 23-612-226 FOR DETAILS OF MH 13
- SEE DWG 23-612-227 FOR DETAILS
- SEE DWG CS 13 E FOR DETAILS

POWER MANHOLE SCHEDULE

MANHOLE NO.	LOCATION	TYPE	STREET LOCATION	ELEV	HEIGHT	NO. OF DUCTS NORTH	NO. OF DUCTS SOUTH	NO. OF DUCTS EAST	NO. OF DUCTS WEST	SIZE DUCTS
1	4475W 2850S C 4 WAY		OHIO AVE	373.03	6'6"	6	6	6	6	5"
2	4475W 2850S A 3 WAY		TENTH ST	371.03	6'6"	4	6	6	6	5"
3	4475W 3143 BS A 3 WAY		ADMINISTRATION BLDG SERVICE ROAD	373.03	6'6"	6	6	6	6	5"
4	4725W-2850S A 3 WAY		OHIO AVE	370.33	6'6"	6	4-4	6	6	5"
5	5000W 2850S C 4 WAY		OHIO AVE	374.33	6'6"	8	4	4	4	5"
6	5000W 2143S A 3 WAY		EIGHTH ST	373.0	6'6"	9	8	4-4	4	5"
7	5000W 2197IS A 3 WAY		EIGHTH ST	374.08	6'6"	6	9	4	4	5"
8	5000W 1814S C 4 WAY		TENNESSEE AVE	372.00	6'0"	6	6	6	1	5"
9	5000W 15494S D 30"		STEAM PLANT SERVICE ROAD	375.5	10'0"	6	6	6	6	5"
10										
11	4294W 1814S A 3 WAY		TENNESSEE AVE	377.33	7'0"	6	6	6	6	5"
12	4454W 1814S C 4 WAY		TENNESSEE AVE	373.83	7'6"	4	6	6	6	5"
13	4454W 1817S NOTE 7		TENTH ST	370.45	7'6"	4-5" NOTE 1	4-5" NOTE 1	10" NOTE 2	6	5"
14	3750W-1814S A 3 WAY		11TH & TENNESSEE	377.33	6'6"	6	6	6	6	5"
15	5042W 2091S A ST TRAV		NOTE 8	376.25	6'0"	4	4	4	4	5"
16	5042W 1605S B ST TRAV		NOTE 1	373.00	6'0"	4 STEEL CONDUITS NOTE 7	4 STEEL CONDUITS NOTE 7	4	4	5"
17										

INDEX OF DRAWINGS

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C5-6-E	13.8 KV - SCHEMATIC
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C5-9-E	DUCT PROFILES - NORTH & SOUTH
C5-10-E	DUCT PROFILES - EAST & WEST
C5-11-E	13.8 KV - OVERHEAD - SCHEDULES
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C5-14-E	DETAILS - POLES

ELECTRICAL DISTRIBUTION - PRIMARY

"C" PLANT - KENTUCKY AREA PADUCAH, KENTUCKY

UNITED STATES ATOMIC ENERGY COMMISSION

REVIEWED FOR CLASSIFICATION TWP 04/30/2014
Initials Date UNCLASSIFIED

BT Images, Inc
00001314

CLASSIFICATION REVIEW

CLASSIFIED BY: [Signature] DATE: 8/7/97

DECLASSIFIED BY: [Signature] DATE: 2/3/98

CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION CHANGED TO **Unclassified**

DATE: 8/7/97

BY: [Signature]

REASON: [Signature]

REV NO	DATE	ISSUED FOR	BY APP DATE
0	11/3/53	DR 301E AS BUILT	ENI 11/3/53
7	9/1/51	REVISION REQUEST NO 738	10/3/52
6	3/3/51	REVISION REQUEST NO 429	4/3/52
5	1/8/51	REVISION REQUEST NO 270	2/11/52
4	1/10/51	REQ NO 122E AND REV REQ NO 188	1/14/52
3	1/16/51	REVISION REQUEST NO 74	1/19/51
2	10/16/51	CONSTRUCTION	10/19/51
1	10/16/51	22220FAL	1

UNITED STATES ATOMIC ENERGY COMMISSION

SMITH, HINCHMAN & GRYLLS, INC
ARCHITECTS & ENGINEERS
DETROIT 26 MICHIGAN

DRAWING TITLE
13.8 KV UNDERGROUND-SCHEDULES

DRAWING APPROVED: DATE: 10/6/51
DRAWING APPROVED: DATE: 10/9/51
DRAWING APPROVED: DATE: 10/10/51

PROJECT: "C" PLANT
SHEET: 13.8 KV DISTRIBUTION C5-1-E

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