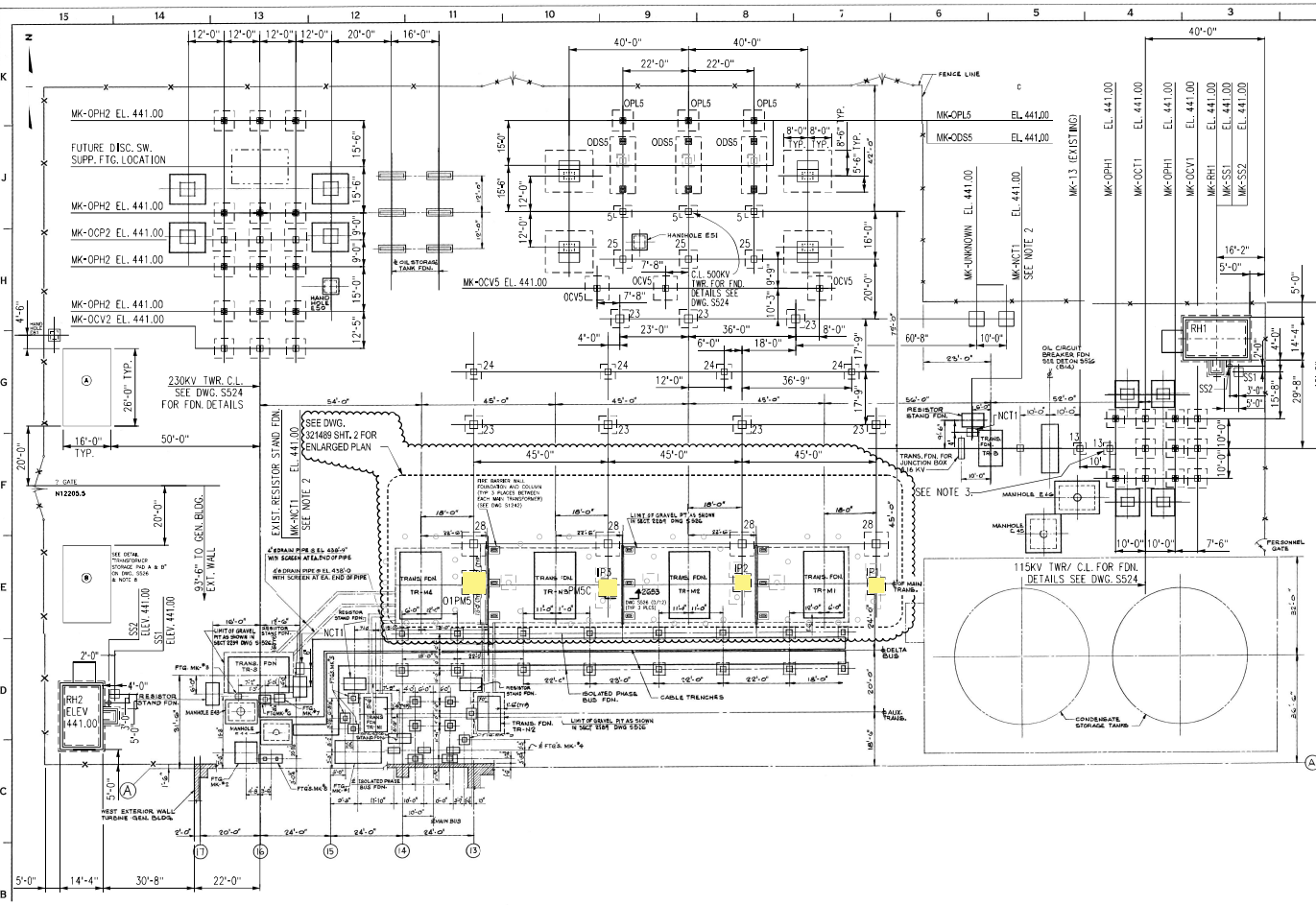

FOOTING SCHEDULE FOR BPA DESIGN WORK ONLY

MARK	TYPE OF STRUCTURE	NO.	DETAIL ON DWG.
OPH1	115KV INSULATOR SUPPORT (HIGH)	5	265516 SHT. 1
OCT1	115KV CT SUPPORT	3	264141 SHT. 1
OCV1	115KV CVT SUPPORT	3	264141 SHT. 1
OPH2	230KV INSULATOR SUPPORT (HIGH)	12	265516 SHT. 1
OCP2	230KV PT/CT SUPPORT	3	264141 SHT. 1
RH1	RELAY HOUSE	1	321490 SHT. 1 & 2
RH2	RELAY HOUSE	1	321490 SHT. 1 & 2
OCV2	230KV CVT SUPPORT	3	264141 SHT. 1
SS1	STATION SERVICE EQUIPMENT	2	321491 SHT. 1
SS2	STATION SERVICE EQUIPMENT	2	321491 SHT. 1
NCT1	NEUTRAL CT SUPPORT	2	321491 SHT. 1
OCV5	CCVT SUPPORT	3	264142 SHT. 1
ODS5	500KV DISCONNENT SWITCH SUPPORT	3	265165 SHT. 1
OPL5	500KV INSULATOR PEDESTAL (LOW)	3	264385 SHT. 2
01PM5	500KV INSULATOR PEDESTAL (MID)	1	351952 SHT. 2
IP1	500KV INSULATOR PEDESTAL (MID)	1	362627 SHT. 1
IP2	500KV INSULATOR PEDESTAL (MID)	1	362627 SHT. 1
IP3	500KV INSULATOR PEDESTAL (MID)	1	362627 SHT. 1

NOTE:

1. ELEVATIONS AND CENTER LINES REFER TO TOPS OF FOOTINGS UNLESS OTHERWISE NOTED.
2. MK-NCT1 TO BE CAST AGAINST EXISTING FOUNDATION WHEN LOCATED 6 INCHES OR LESS FROM EDGE OF EXISTING FOUNDATION.
3. EXISTING MK-13 TO BE USED AS FOOTING FOR NEW 115KV HIGH INSULATOR SUPPORT (BPA CAT. I.D. 1002239 MK-115H WITH BASEPLATE PUNCHED TO MATCH MK-13 ANCHOR BOLTS). DESIGN AND ANALYSIS OF FOOTING AND STEEL SUPPORT STRUCTURE BY ENERGY NORTHWEST NOT BONNEVILLE POWER ADMINISTRATION.

SCALE 1"=20'-0" 0 10' 20' 40' 60'

NO.	FA	W.O.	REVISION	BY	DATE	APPROVED
6	FA	629712	ADD:1-MK-01PM5, 1-MK-IP1, 1-MK-IP2, 1-MK-IP3 AND ENLARGED TRANS PLAN ON SHEET 2.	BPA/ RJH	5/12/26	BPA/ PMB BPA/ ROW TELD
5	C	595129	REMOVED: 3-MK-27 FOOTINGS. ADDED: 3-MK-OPL5 & 3-MK-ODS5 FOOTINGS	BPA/ RJH	10/16/24	BPA/ PJC BPA/ CTB TELD
4	C	477396	CHANGED LOCATION OF 3-MK-OCV5 ADDED IN REV. 3	DFA	12/6/18	SMR PJC DEO
3	C	477396	ADD 3-MK-OCV5	DFA	10/18/18	SMR PJC DEO
	R		ADDED CAD ELEMENTS FOR 4 EA. 500KV TWR. FTGS. FROM BURNS & ROE DWG. S524. ADDED CAD ELEMENTS FOR FTGS. FROM DIS-TRAN DWG. 501: 3-MK-5, 7-MK-23, 4-MK-24, 3-MK-25, 3-MK-27, 4-MK-28. ADDED 2 EA. UNKNOWN FTGS. FROM SITE VISIT.			
2	C	358090	REVISIONS 0 AND 1 NOT INSTALLED. ALL WORK SHOWN IN REVISION CLOUDS IS NOW COMBINED INTO REVISION 2: ADD: 1-RH1, 1-RH2, 5-OPH1, 3-OCT1, 3-OCV1, 12-OPH2, 3-OCP2, 3-OCV2, 2-SS1, 2-SS2 AND 2-NCT1. ADDED NOTES 1, 2 & 3. EXISTING FOOTING MK-13 MARKED FOR REUSE.	DFA	3-28-16	ROW JMG DEO

• C - CONTRACT CONSTRUCTION, FA - FORCE ACCOUNT, R - RECORD

NOTES: ENERGY NORTHWEST HISTORICAL DATA

1- FOR DETAILS OF MANHOLES AND HANDHOLES, SEE DWG. S517 & S518.
2- FOR DETAILS OF CABLE TRENCHES, SEE ELECTRICAL DWG. & S15, SH.1
3- FOR FENCE AND GATE DETAILS, SEE DWG. C509.
4- WORK THIS DWG. WITH DWG. S5244 S526.
5- FOR EMBEDDED ELECTRICAL CONDUITS IN TRANSFORMER FOUNDATIONS, SEE ELECTRICAL DWG. E45, SH.2.
6- FOR ADDITIONAL NOTES, SEE DWG. S524.
7- SEE DWG S5GO FOR ANCHOR BOLT DETAILS, EXCEPT AS NOTED FOR TRANSMISSION TOWER FOUNDATIONS ON DWG. S524.
8- FOR TRANSFORMER STORAGE PADS "A" & "B", CONCRETE STRENGTH IS 4000 PSI (MIN) @ 28 DAYS. REINFORCING STEEL IS #10 OR SM. MIN BEND LENGTH FOR REBAR IS TO BE EQUAL DEVELOPMENT LENGTH FOR #7 BAR SIZE LD=21". INSTALL A SUB-GRADE OF 1 1/4" MINUS GRAVEL LEVELED & COMPACTED APPROX 6"-8" BELOW CONCRETE PADS.

REV	DATE	DESCRIPTION	DWN	CHK	APVD
6	6-15-07	REV PER 55243-109 (E-4/13-15, H/1-2). SCANNED DRAWING	W.AL	KB	DRG
5	3-24-10	REV PER 08474-300 (E-4/7-11)	W.AL	KB	SMP

BURNS AND ROE, INC. ORADELL, N.J. HEMPSTEAD, N.Y. LOS ANGELES, CALIF.
STRUCTURAL TRANSFORMER AREA FOUNDATIONS SHEET-1
WASHINGTON PUBLIC POWER SUPPLY SYSTEM HANFORD No. 2
W.O. 2808 DWG. S525 REV. 6

362659	1	BILL OF MATERIAL (W.O. 629712)
DRAWING NO.	SHEET	TITLE

REFERENCE DRAWINGS

DSGN	R.O. WAHRGREN
DRWN	D.F. ALLEN
CHKD	J.M. GRUNKEMEIER
REVW	
CNCR	
APPR	D.E. O'CLAIRE
DATE	3-28-2016

UNITED STATES DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
HEADQUARTERS, PORTLAND, OREGON

COLUMBIA GENERATING STATION FOOTING PLAN TRANSFORMER AREA

Serial	Source	Size	Sheet	Revision
321489	SFS	A1	1 OF 2	6