

NOTES:

- CONCRETE TO BE 4000 psi. (MIN.) ASTM C150 TYPE I.
- REINFORCING STEEL TO BE ASTM A615 GRADE 60.
- EXTEND 2/0 AWG Cu 6" OUTSIDE PAD PERIMETER AT 4 LOCATIONS. COIL ADJACENT TO PAD FOR FUTURE CONNECTION BY OTHERS.
- POUR PAD AGAINST UNDISTURBED EARTH. EXCAVATION SHOULD SHOW UNIFORM STIFF FINE SANDY CLAY. COLOR MAY VARY ORANGE-BROWN AND GRAY. IF OTHER CONDITIONS ARE FOUND IMMEDIATELY NOTIFY ENGINEER. FILL ANY OVER-EXCAVATION WITH COMPACTED CRUSHER RUN (ABC) STONE.
- VERTICAL REBARS MUST MAINTAIN MINIMUM CLEARANCE OF 3" FROM FORMS.
- MAKE 3 SAMPLE CYLINDERS FROM EACH TRUCK AFTER ANY SITE MIX ADJUSTMENTS. SITE MIX ADJUSTMENTS NOT RECOMMENDED. RECORD CYLINDER NUMBERS, DATE, TIME AND TRUCK IDENTIFICATION.
- REBARS FORMED FOR 4" CLEARANCE ON EACH END. MINIMUM ALLOWABLE CLEARANCE TO FORM IS 3" AFTER CONCRETE PLACEMENT AND VIBRATION.
- ADD REBAR ITEM #5 IN PAD @ 24" CENTERS TO FACILITATE CONSTRUCTION.
- SITE OIL CONTAINMENT PROVISIONS NOT SHOWN. SEE OIL CONTAINMENT DETAILS.

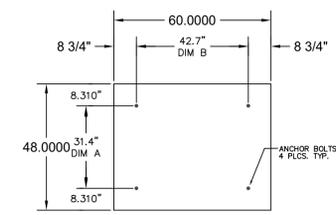


REBAR TABLE

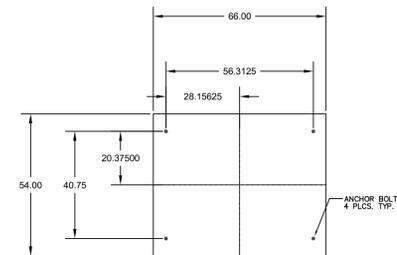
PAD No. "7"				TOTAL No. REQ'D - 1		
ITEM NO.	SIZE OF REBAR	NO. REQ'D PER FDN	LENGTH DIM A	DIM B	WEIGHT - LBS. TOTAL REBAR PER FOOTER PER FDN	
1	#5	13	14'-4"	STRAIGHT	14'-4"	14.95
2	#5	18	9'-4"	STRAIGHT	9'-4"	9.73
3	#4	13	14'-4"	STRAIGHT	14'-4"	9.57
4	#4	18	9'-4"	STRAIGHT	9'-4"	6.23
5	#3	30	1'-0"	3'-10"	1.57	18.82
TOTAL WEIGHT OF REBAR PER FDN =					597.97	
TIMES TOTAL No. OF FDN'S REQ'D =					597.97	

FD-7
SCHEDULE FOR TYPICAL PAD DETAIL

PAD No.	TOTAL REQ'D	PAD SIZE		ANCHOR BOLT PLAN	CU YDS CONCRETE PER FDN	TOTAL
		LENGTH x WIDTH	DEPTH			
4	1	15'-0" x 10'-0"	2'-6"	NA	13.89	13.89



PLAN VIEW
(ANCHOR BOLTS)
AB-5



PLAN VIEW
(ANCHOR BOLTS)
AB-7

REBAR TABLE

PAD No. "10"				TOTAL No. REQ'D - 4		
ITEM NO.	SIZE OF REBAR	NO. REQ'D PER FDN	LENGTH DIM A	DIM B	WEIGHT - LBS. TOTAL REBAR PER FOOTER PER FDN	
1	#4	8	4'-6"	STRAIGHT	4'-6"	3.00
2	#4	12	3'-0"	STRAIGHT	3'-0"	2.00
3	#3	16	1'-6"	0'-6"	2'-6"	1.67
TOTAL WEIGHT OF REBAR PER FDN =					74.72	
TIMES TOTAL No. OF FDN'S REQ'D =					298.88	

P-10
SCHEDULE FOR TYPICAL FOUNDATION DETAIL

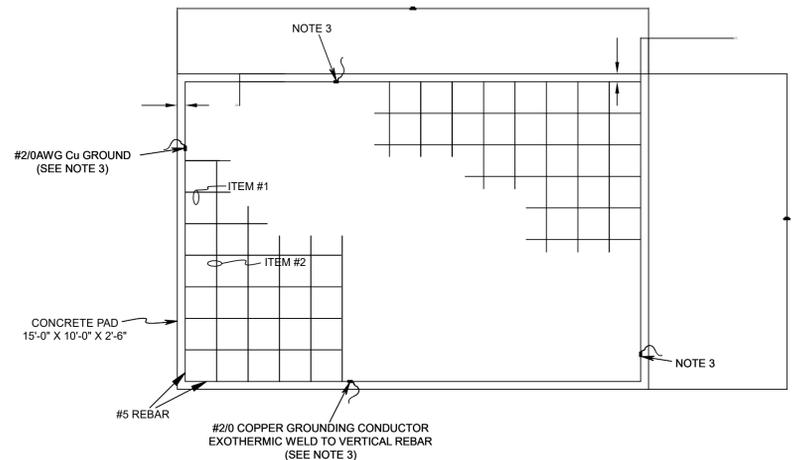
PAD No.	TOTAL REQ'D	PAD SIZE		ANCHOR BOLT PLAN	CU YDS CONCRETE PER FDN	TOTAL
		LENGTH x WIDTH	DEPTH			
10	4	5'-0" x 4'-0"	2'-0"	AB-5	1.48	5.93

REBAR TABLE

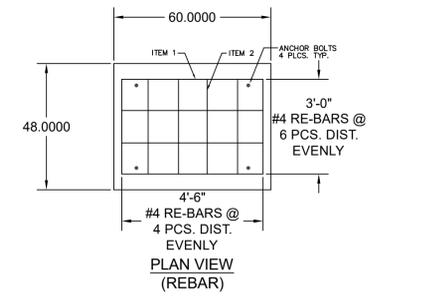
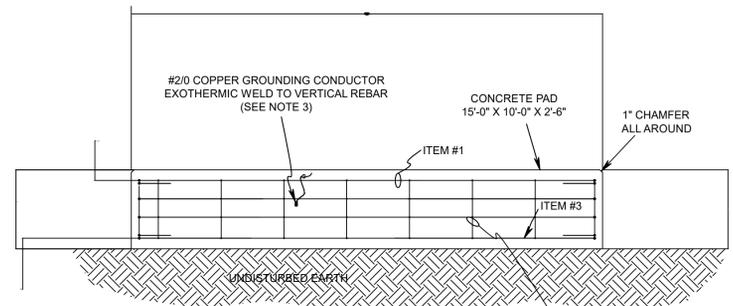
PAD No. "11"				TOTAL No. REQ'D - 1		
ITEM NO.	SIZE OF REBAR	NO. REQ'D PER FDN	LENGTH DIM A	DIM B	WEIGHT - LBS. TOTAL REBAR PER FOOTER PER FDN	
1	#4	8	4'-6"	STRAIGHT	4'-6"	3.00
2	#4	12	3'-0"	STRAIGHT	3'-0"	2.00
3	#3	16	1'-6"	0'-6"	2'-6"	1.67
TOTAL WEIGHT OF REBAR PER FDN =					74.72	
TIMES TOTAL No. OF FDN'S REQ'D =					74.72	

P-11
SCHEDULE FOR TYPICAL FOUNDATION DETAIL

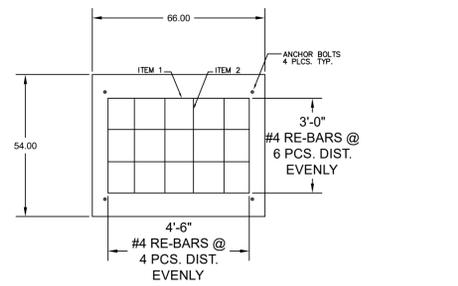
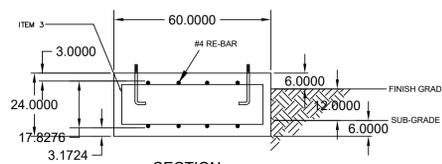
PAD No.	TOTAL REQ'D	PAD SIZE		ANCHOR BOLT PLAN	CU YDS CONCRETE PER FDN	TOTAL
		LENGTH x WIDTH	DEPTH			
11	1	5'-6" x 4'-6"	2'-0"	AB-6	1.83	1.83



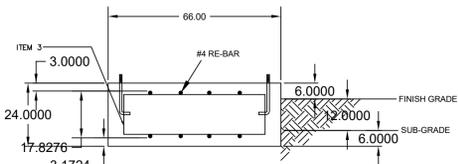
PAD No. 7
TRANSFORMER No. 1
1 REQ'D



PAD No. 10
BREAKERS
4 REQ'D



PAD No. 11
BREAKERS
1 REQ'D



ASTM STANDARD REBAR WEIGHTS

#3	0.376 LBS PER FOOT
#4	0.668 LBS PER FOOT
#5	1.043 LBS PER FOOT
#6	1.502 LBS PER FOOT
#7	2.044 LBS PER FOOT
#8	2.670 LBS PER FOOT

NO.	REVISIONS
1A	BOVIET SUBSTATION PRELIMINARY DESIGN RWC 3/23/2026

PRELIMINARY

GREENVILLE UTILITIES
Greenville, North Carolina

BOVIET SUBSTATION
115 TO 15 kV
TRANSFORMER No.1 & 2, BKBR, & FBKR
FOUNDATION DETAIL

DWN.	DATE	DWG. NO.
CKD.	APPD.	
SCALE: Drawn 1:1; Print 3/8" = 1"		