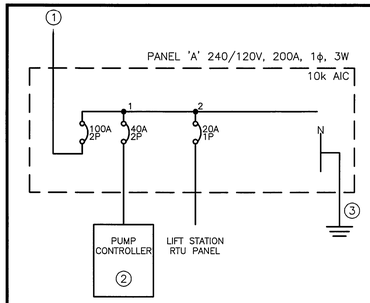


○ KEYED NOTES

1. COORDINATE AND MEET ALL UTILITY COMPANY REQUIREMENTS.
2. PUMP CONTROLLER BY OTHERS. INSTALLED AND WIRED BY EC.
3. 3/4" COPPER CLAD GROUND, TWO COUPLED FOR 20' STRAIGHT LENGTH.

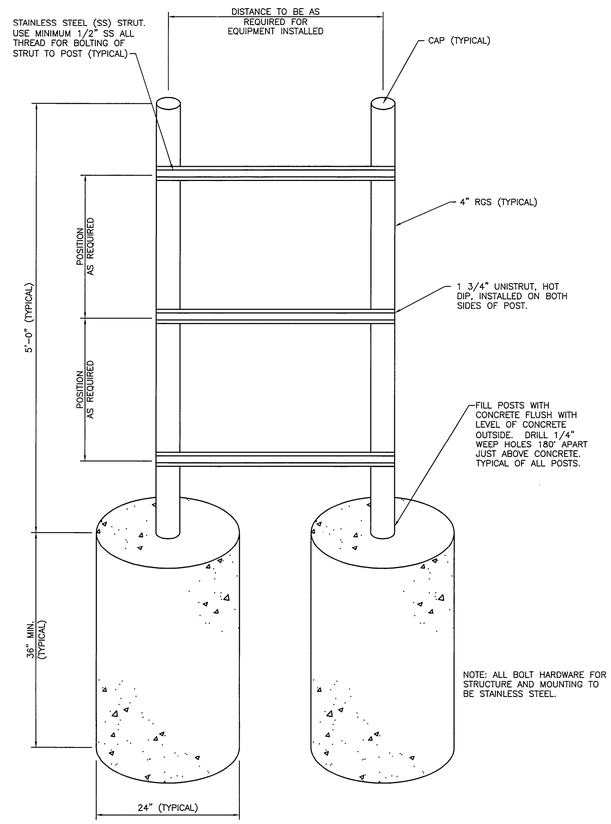
GENERAL NOTES

1. COORDINATE WITH PUMP INSTALLER AND PUMP SPECIFICATIONS PROVIDE AND INSTALL NECESSARY WIRING.

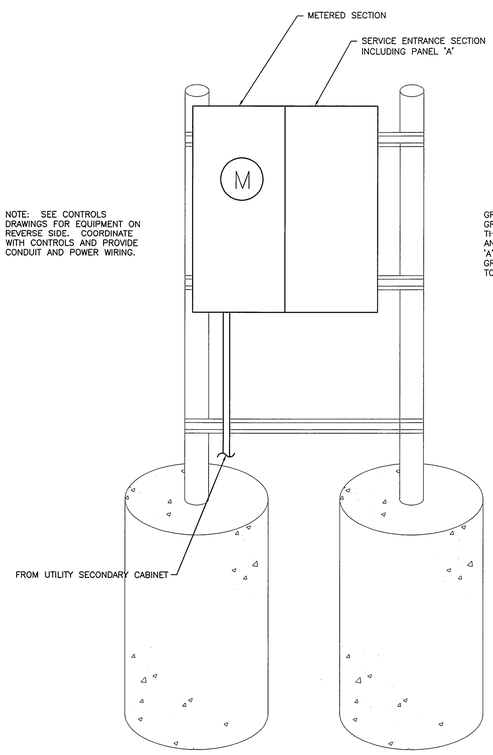
ONE-LINE DIAGRAM LEGEND

- THERMAL MAGNETIC SHORT CIRCUIT PROTECTION
- MT — BUS METER
- M — UTILITY METER
- GF — GROUND FAULT RELAY & SHUNT TRIP
- ST — SHUNT TRIP BREAKER TO TRIP WHEN FIRE SUPRESSION SYSTEM IS ACTIVATED
- SPD/TVSS
- NON-FUSED SAFETY SWITCH
- FUSED OR C.B. SAFETY SWITCH
- TRANSFORMER
- CONDUIT STUB UP/OUT

1 NO SCALE — **ELECTRICAL ONE-LINE DIAGRAM**



2 NO SCALE — **ELECTRICAL PANEL SUPPORT**



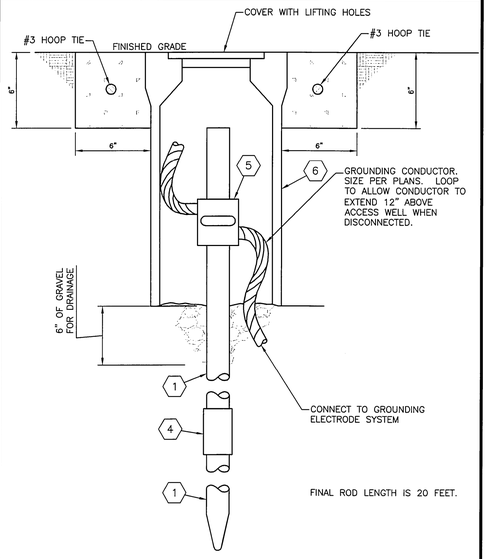
NOTE: SEE CONTROLS DRAWINGS FOR EQUIPMENT ON REVERSE SIDE. COORDINATE WITH CONTROLS AND PROVIDE CONDUIT AND POWER WIRING.

GROUNDING: INSTALL TWO GROUND RODS PER DETAIL 4 THIS SHEET, 20 FEET APART AND BOND NEUTRAL IN PANEL 'A' TO GROUND. EXTEND GROUND TO ANTENNA. REFER TO CONTROLS DRAWINGS.

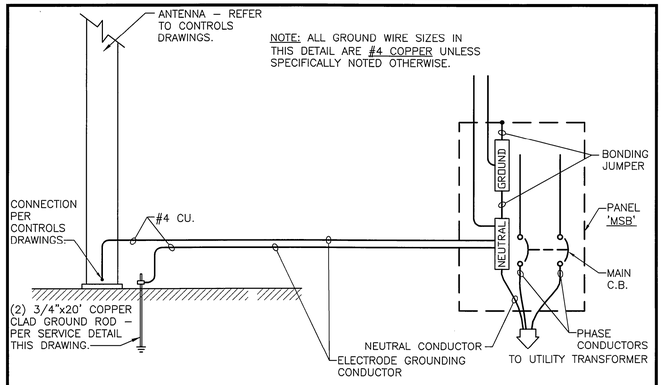
3 NO SCALE — **ELECTRICAL SERVICE DETAIL**

GROUNDING EQUIPMENT SCHEDULE

SYM	#	DESCRIPTION
1	2	SECTIONAL GROUND ROD, COPPER CLAD, 3/4"øX10', HARGER #3410.
	1	DRIVING STUD, FOR 3/4"ø COUPLERS, HARGER #317. NOT SHOWN AS IT IS REMOVED ONCE ROD IS FULLY INSERTED.
4	1	GROUND ROD COUPLER, FOR 3/4"ø SECTIONALS, HARGER #312.
5	1	WIRE CONNECTION TO GROUND ROD – DETACHABLE SO GROUND ROD CAN BE DISCONNECTED AND TESTED. SINGLE WIRE OR THROUGH WIRE IS BLACKBURN # GUV5825 OR HARGER # 305.
6	1	ACCESS WELL, REINFORCED CONCRETE, LOCKING GRADE RING WITH TELESCOPING EXTENSIONS, COVER WITH LIFTING HOLES, RATED FOR H20 TRAFFIC 20,000 LBS, HARGER #362 PBG.



4 NO SCALE — **GROUND ROD DETAIL**



5 NO SCALE — **GROUNDING DETAIL**

MKEC ENGINEERING CONSULTANTS, INC.
411 N. WEBB ROAD
WICHITA, KS. 67206
316 - 684 - 9600

JOHN W. BARNARD LICENSED 12564 7/6/10 KANSAS PROFESSIONAL ENGINEER

SANITARY SEWER LIFT STATION AND FORCE MAIN

BOTANICA - THE WICHITA GARDENS

STREETS AND UTILITIES

ELECTRICAL DETAILS

SHEET TITLE

468–84683

PROJECT NUMBER

BWB / JJB / BWB
DESIGNED DRAWN CHECKED

ISSUED
July 2010

REVISED

SHEET NO.
9 of 29

PLOTTED: Tuesday, July 06, 2010 @ 02:39PM

J:\Civil\08603\DWG\ELEC\08603_E2_0.DWG

J:\Civil\08603\DWG\ELEC\08603_E2_1.dwg, 7/6/2010 2:39:15 PM, 1:1