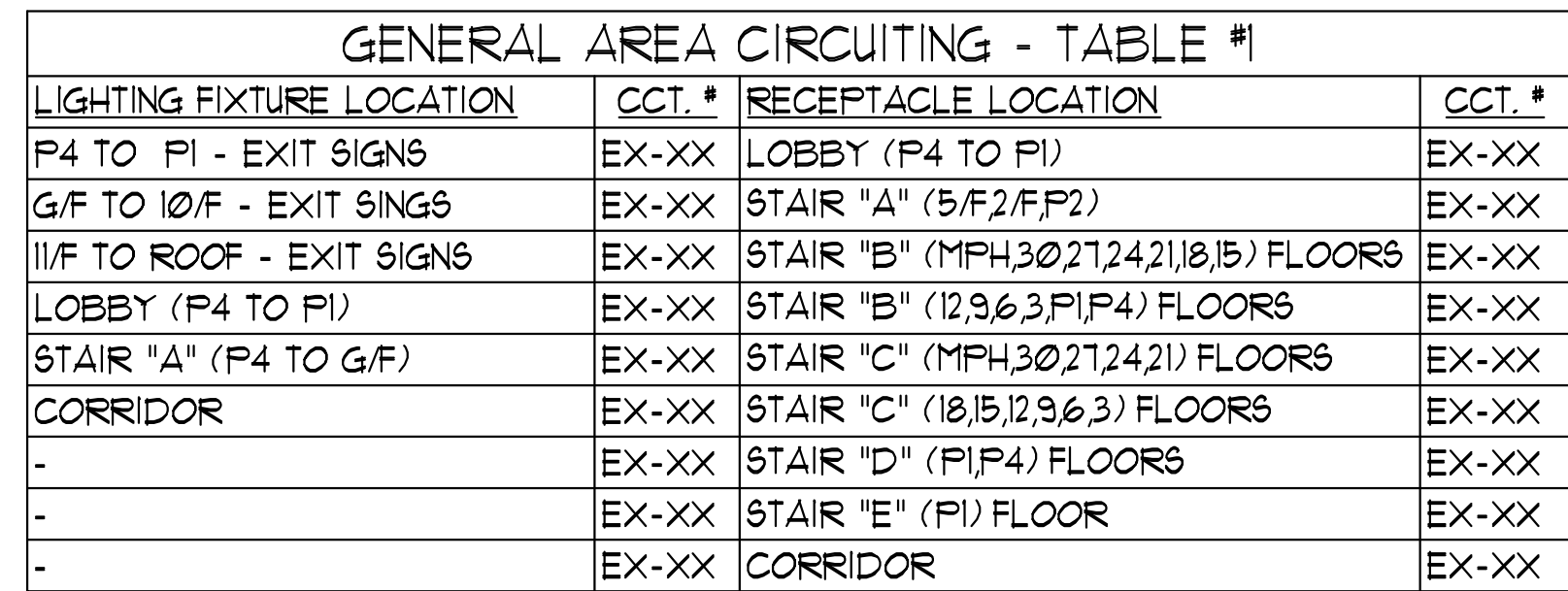




SHALL BE CONNECTED TO THE UTILITY COMPANY'S SYSTEMS WHEN REQUIRED BY THE UTILITY COMPANY. RULE 2-034.

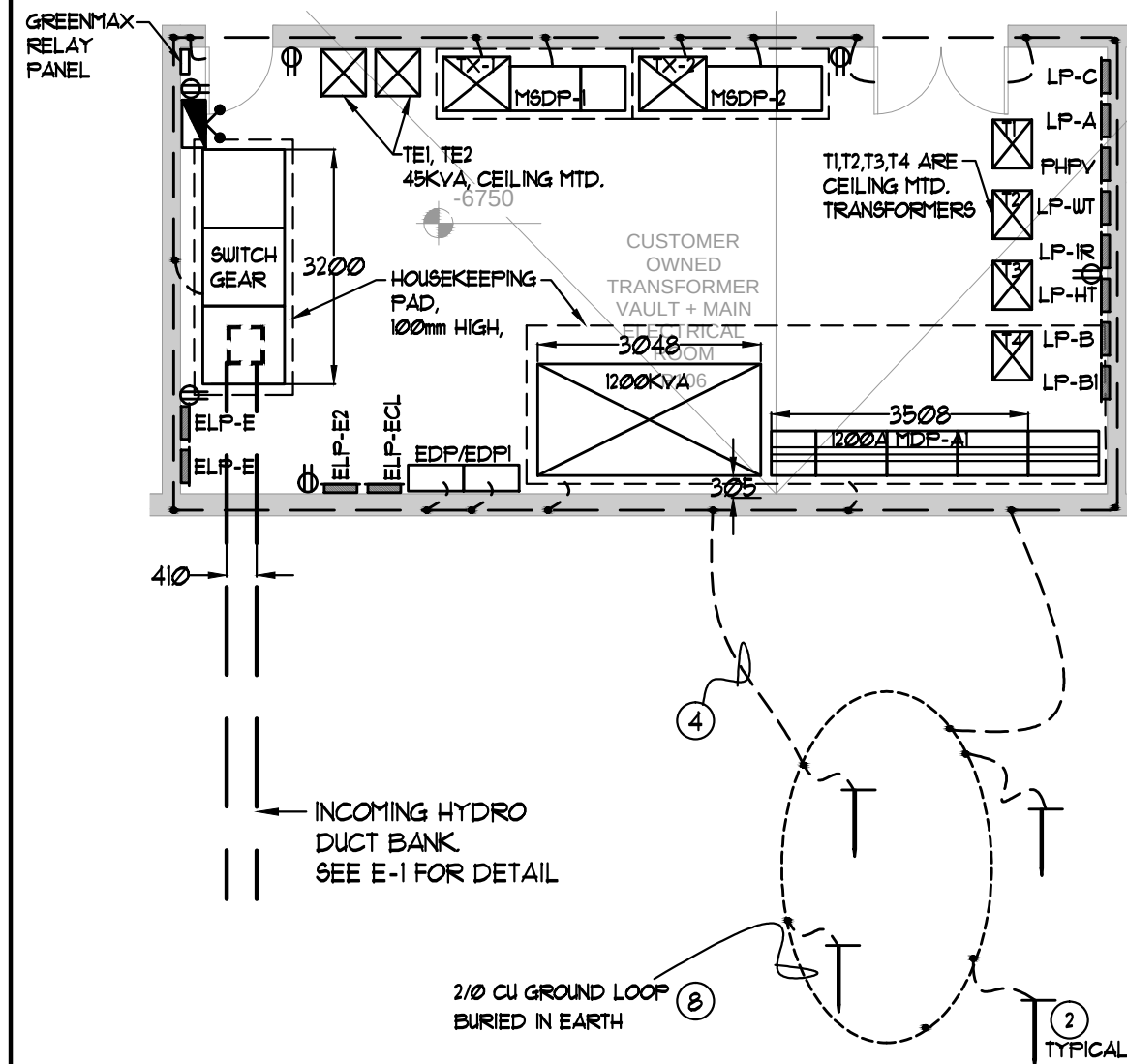
DIV. 16 CONTRACTOR, THIS CONTRACTOR SHALL SUPPLY UNDER SLAB CONDUITS FOR POWER AND CONTROL WIRING FROM CONTROL PANELS TO SANITARY/SUMP PIT.

	SMOKE DETECTOR
	FIRE ALARM DUCT TYPE SMOKE DETECTOR
	FIRE ALARM HEAT DETECTOR
	FIXED TEMP. 68 °C DEGREE HEAT DETECTOR
	MOISTURE PROOF HEAT DETECTOR
	CO ALARM
	COMBINATION SMOKE & CO ALARM
	CO SENSOR / NO SENSOR
	FIRE ALARM MANUAL PULL STATION
	FIREFIGHTERS HANDSET
	FIRE ALARM STROBE-HORN, WALL MTD.
	FIRE ALARM MTN-HORN, WALL MTD.
	FIRE ALARM SPEAKER/STROBE CEILING MTD.
	FIRE ALARM SPEAKER, CEILING MTD.
	FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM CONTROL PANEL

- ① GROUND LOOP PER ONT. ELEC. SAFETY CODE SECTION 10.
- ② PROVIDE 3/4" X 10 FT STEEL GROUND RODS BURIED IN EARTH & CONNECT TO GROUND BUS BY 2-2/0 STRANDED COPPER WIRE. MIN. OF GROUND RODS SHALL BE SPACED AT LEAST 3 METERS APART.
- ③ ALL DOOR FRAMES, SWITCHGEAR FRAMES & OTHER METAL OBJECTS SHALL BE BONDED TO THE GROUND BUS. METAL FRAME OF BUILDING TO BE CONNECTED TO GROUND GRID BY MIN. OF 2-2/0 CU. CONDUCTORS.
- ④ CONNECT STATION GROUND WITH IN-EARTH GROUND LOOP BY MIN. OF 2 LEADS SEPARATED BY A MINIMUM OF 2 METERS.
- ⑤ WARNING SIGNS TO BE POSTED AS PER ONT. ELEC. SAFETY CODE RULES: 36-006, 36-100(4), 2-100, 14-506(D) BULLETIN 36-12-0, BULLETIN 36-6-1
- ⑥ LOW VOLTAGE NEUTRAL 'XO' OF TRANSFORMER MUST BE GROUND TO THE SUBSTATION ELECTRODE WITH 3/0 ALUM COPPER AND THE NEUTRAL INSTALLED TO THE SERVICE EQUIPMENT. THE 'XO' SHALL ALSO BE BONDED TO THE TRANSF. ENCLOSURE/GROUND BUS WITH A MIN. 500 MCM COPPER CONDUCTOR.

- ① ALL CONNECTIONS TO THE STATION GROUND ELECTRODE THAT ARE TO BE PERMANENTLY BURIED MUST BE MADE WITH AN APPROVED THERMITE WELD, COMPRESSION CONNECTORS OR AN APPROVED MECHANICAL CONNECTOR.
- ② GROUND LOOP SIZE SHALL BE EQUIVALENT TO THE FOOT PRINT OF THE TRANSFORMER VAULT.
- ③ THE ELECTRICAL CONTRACTOR SHALL SUBMIT SHOP DRAWING 4 ROUTING DETAILS OF HV CABLES INSIDE THE SUBSTATION PRIOR TO INSTALLATION.
- ④ THE GROUND GRID CONDUCTORS SHALL BE BARE COPPER BURIED TO A MAXIMUM DEPTH OF 600MM BELOW ROUGH STATION GRADE AND A MINIMUM DEPTH OF 150 MM BELOW THE FINISHED STATION GRADE.

- 11 PROVIDE HYDRO METER BASE CUTLAR HAMMER (EATON) TSU-13 IN 12"x12" ELEC. BOX± C/W 1/2" EMT. PROVIDE 1-1/2" EMT TO UTILITY COMPARTMENT OF MAIN SWITCHBOARD.



A ELECTRICAL & SWITCH GEAR ROOM PLAN VIEW & GROUNDING DETAILS
E-2 SCALE 1:100

ONLY FOR P-1
(OR FLOOR
WITH HV
TRANSFORMER)
FREEZE FOR
OTHER
PARKING
LEVELS.