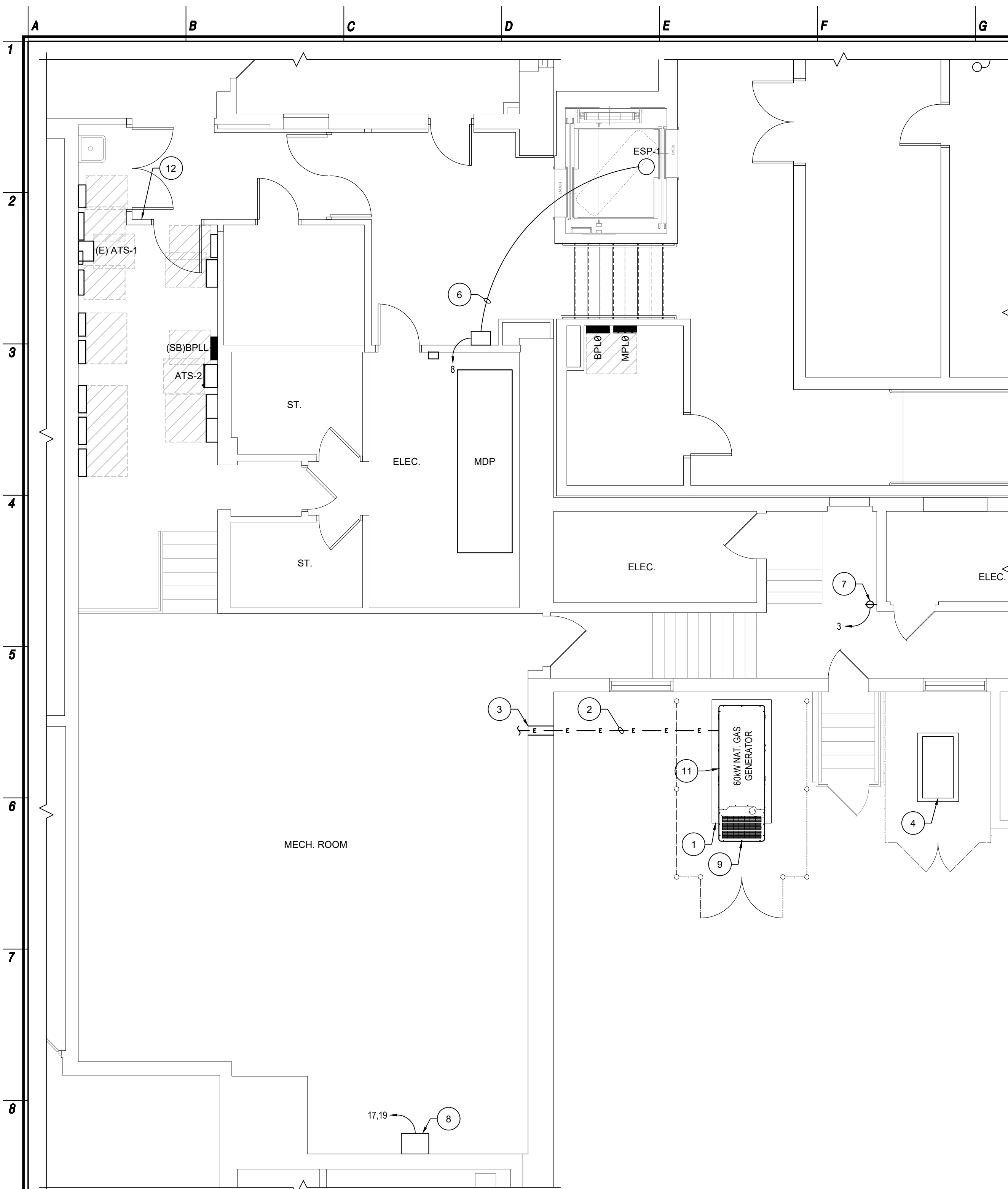


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Proposed Generator Power Plan - Lower Level

ALL CIRCUITS IN THIS AREA REFER TO PANEL BPLL UNLESS NOTED OTHERWISE

PANEL SCHEDULE - PANEL (SB)BPLL

FED FROM MDP & GENERATOR VIA ATS-2 208/120V

OCFD					Conductors					Load		Load per Phase(A)			Voltage
CT#	Load Description	Type	Poles	Rated	Current	Neutral	Ground	Raceway	Voltage	kVA	Phase A	Phase B	Phase C	Drop %	
1	MUSIC ROOM SUMP PUMP	Std	1	20A	(1) 12 ga	(1) 12 ga	(1) 12 ga	3/4 in. EMT	120	0.53	5.22			0.96%	
2	GENERATOR BATTERY CHARGER	Std	1	20A	(1) 12 ga	(1) 12 ga	(1) 12 ga	3/4 in. EMT	120	0.6	5			1.25%	
3	CORRIDOR SUMP PUMP	Std	1	20A	(1) 12 ga	(1) 12 ga	(1) 12 ga	3/4 in. EMT	120	0.53		5.22		0.96%	
4	GENERATOR ALTERNATOR HEATER	Std	1	20A	(1) 12 ga	(1) 12 ga	(1) 12 ga	3/4 in. EMT	120	1.2		10		2.50%	
5	SUMP PUMP - SP-1	Std	1	20A	(1) 12 ga	(1) 12 ga	(1) 12 ga	3/4 in. EMT	120	0.53			5.22	0.96%	
6	GENERATOR COOLANT JKT HTR	Std	1	20A	(1) 12 ga	(1) 12 ga	(1) 12 ga	3/4 in. EMT	120	1.92			16	4.00%	
7	SUMP PUMP - SP-2	Std	1	20A	(1) 12 ga	(1) 12 ga	(1) 12 ga	3/4 in. EMT	120	0.53	5.22			0.96%	
8	ELEV SUMP PUMP - ESP-1	Std	1	20A	(1) 12 ga	(1) 12 ga	(1) 12 ga	3/4 in. EMT	120	0.35	3.45			0.64%	
9/11	GYM SP-5	Std	2	20A	(2) 12 ga	none	(1) 12 ga	1 in. EMT	208	0.8		4.52	4.52	0.56%	
10/12	GYM SP-3	Std	2	20A	(2) 12 ga	none	(1) 12 ga	1 in. EMT	208	0.8		4.52	4.52	0.56%	
13/15	GYM SP-6	Std	2	20A	(2) 12 ga	none	(1) 12 ga	1 in. EMT	208	0.8	4.52	4.52		0.56%	
14/16	GYM SP-4	Std	2	20A	(2) 12 ga	none	(1) 12 ga	1 in. EMT	208	0.8	4.52	4.52		0.56%	
17/19	(E) SEWAGE EJECTOR PUMP	Std	2	30A	(2) 10 ga	(1) 10 ga	(1) 10 ga	3/4 in. EMT	208	2.13	12.06		12.06	0.90%	
18															
20-42															
Total Circuits					18	Connected Loads: 11,520 VA					39.1 A	33 A	42 A		

Voltage: 120 / 208
Circuits: 18 / 42
Neutral Buss: No
Ground Buss: Yes
Buss Capacity: 200 A
NEMA Type 1

Main Connection: breaker
Load KVA: 12
OCPD Size: 200A
OCPD Type: Std
Location:
Remarks:

3-Phase Connection			
Voltage Drop % for 30 Feet is 0.08%	Current	Neutral	Ground
Raceway: 2 in. dia. EMT	(3) 3/0 ga. THHN	(1) 3/0 ga. THHN	(1) 6 ga. THHN



Proposed Standby Power Plan - Lower Level

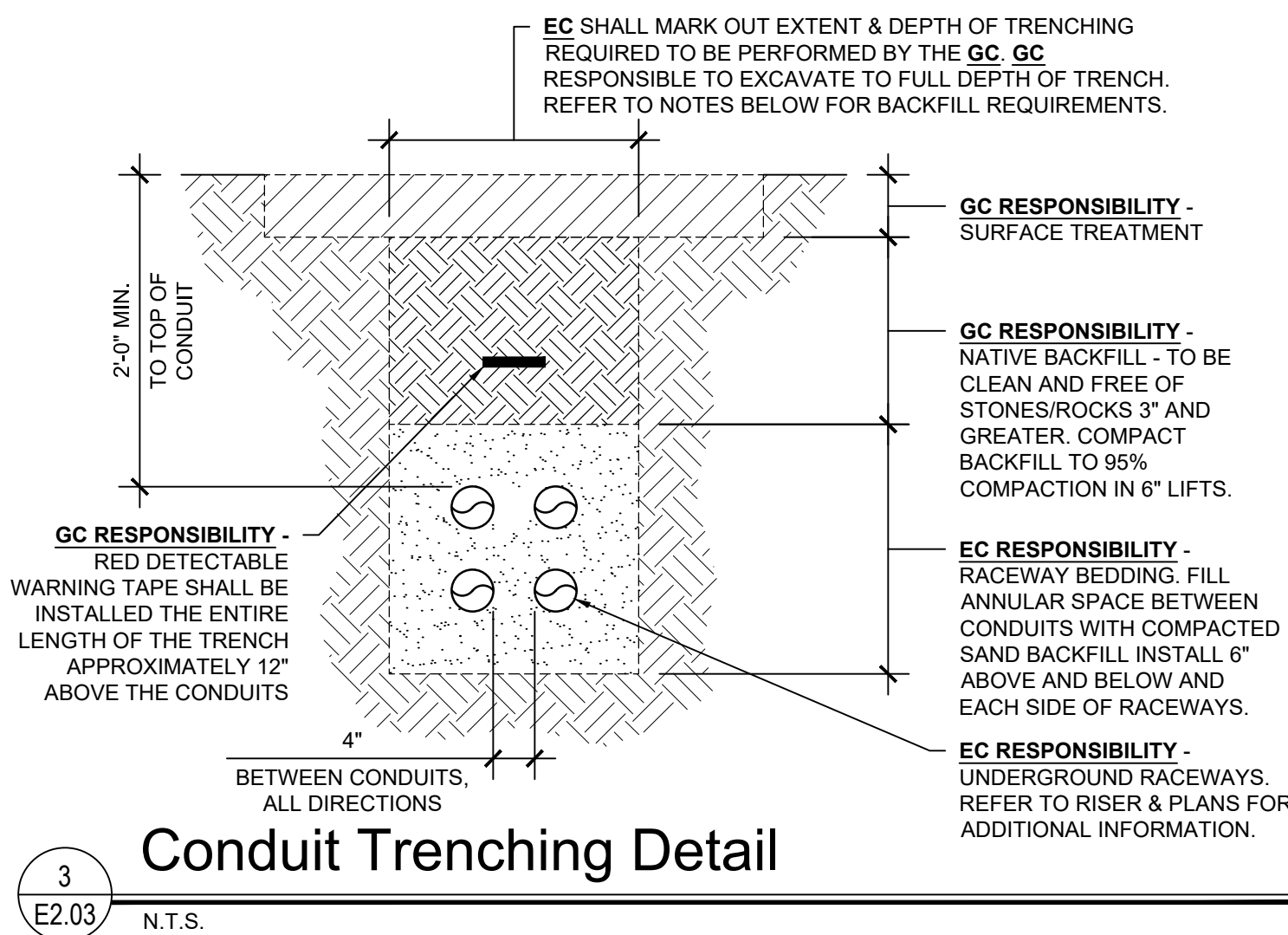
3/32" = 1'-0"

ALL CIRCUITS IN THIS AREA REFER TO PANEL BPLL UNLESS NOTED OTHERWISE

Electrical Key Notes

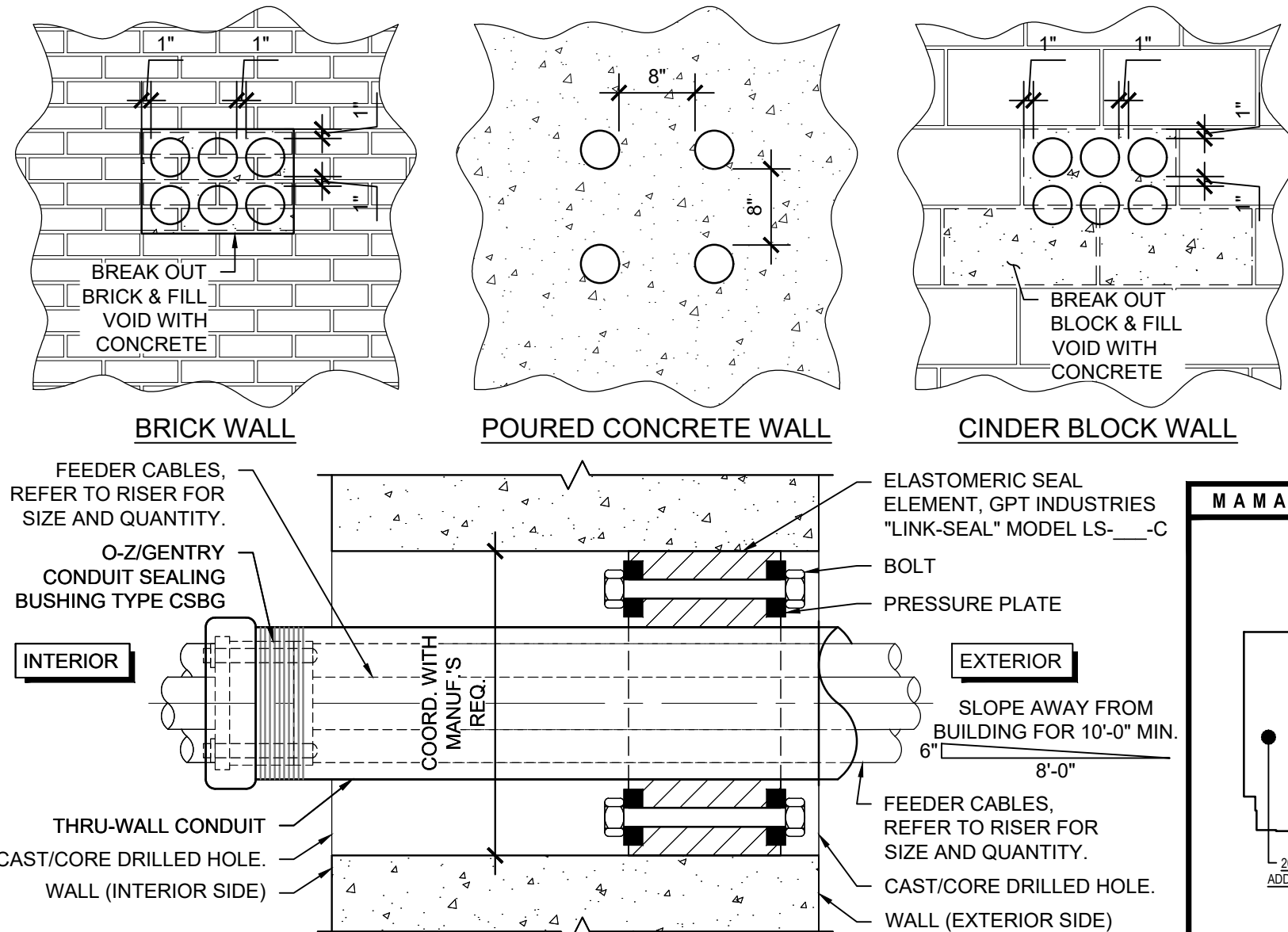
- CONCRETE PAD BY GC. EC TO COORDINATE CONDUIT ENTRY POINTS.
- UNDERGROUND RACEWAY(S). REFER TO DETAILS 2 & 3/E2.03 FOR ADDITIONAL REQUIREMENTS.
- SUMP PUMP - SP-1
- GENERATOR COOLANT JKT HTR
- SUMP PUMP - SP-2
- ELEV SUMP PUMP - ESP-1
- GYM SP-5
- GYM SP-3
- GYM SP-6
- GYM SP-4
- (E) SEWAGE EJECTOR PUMP
- EXISTING GENERATOR TO BE DISCONNECTED AND TO REMAIN IN PLACE.
- EXISTING ATS SWITCH FOR SUMP PUMP SP-1 & SP-2 CONTROLLER. CONTRACTOR TO REFEED WITH NEW GENERATOR. CONNECT CONTROL WIRES TO NEW GENERATOR AS REQUIRED TO PROVIDE A START SIGNAL AT LOSS OF POWER.
- (2) #12 & (1) #12 GND TO EACH PUMP. REFER TO PLUMBING DRAWINGS AND
- MANUFACTURER'S REQUIREMENTS FOR ADDITIONAL REQUIREMENTS.
- 1" C W/ (8) #12 & (1) #12 GND FOR PUMPS SP-3, 4, 5, & 6. CURRENT CARRYING CONDUCTORS HAVE BEEN DERATED AS PER NEC TABLE 310.15(B)(3)(a).
- REFEED EXISTING SEWAGE EJECTOR PUMP CONTROLLER. CONFIRM POWER REQUIREMENTS IN FIELD.
- RADIATOR AIRFLOW COOLED, VERTICAL FLOW, 50KW LOAD BANK
- MOUNTED TO TOP OF GENERATOR. 3/4" C W/ (4) #12 & (1) #12 GND FOR PUMPS SP-5, & 6. CURRENT CARRYING CONDUCTORS HAVE BEEN DERATED AS PER NEC TABLE 310.15(B)(3)(a).
- GENERATOR. REFER TO DWG E6.01 FOR ADDITIONAL INFORMATION.
- INSTALL GENERATOR ANNUNCIATOR IN THIS AREA. CONFIRM EXACT LOCATION WITH OWNER'S AUTHORIZED REP. IN FIELD.

SYMBOL INDICATES KEY NOTE



Conduit Trenching Detail

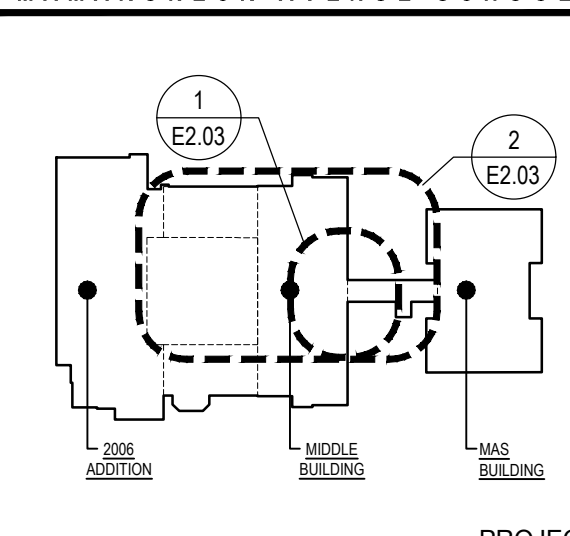
N.T.S.



Thru Wall Conduit Seal

N.T.S.

MAMARONECK AVENUE SCHOOL



Key Plan

NOT TO SCALE

MICHAEL J. MCGOVERN, R.A.
REGISTERED ARCHITECT
License No. 022257-1

Revisions:
ISSUE TO BO
11/23/20

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PROPOSED GENERATOR PLANS
2019 BOND REFERENDUM
MAMARONECK AVENUE ELEMENTARY SCHOOL
MAMARONECK UNION FREE SCHOOL DISTRICT
850 MAMARONECK AVENUE, MAMARONECK, NY 10543

Job No. 4.1092.72.2

File No. 10927202E203

E2.03

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