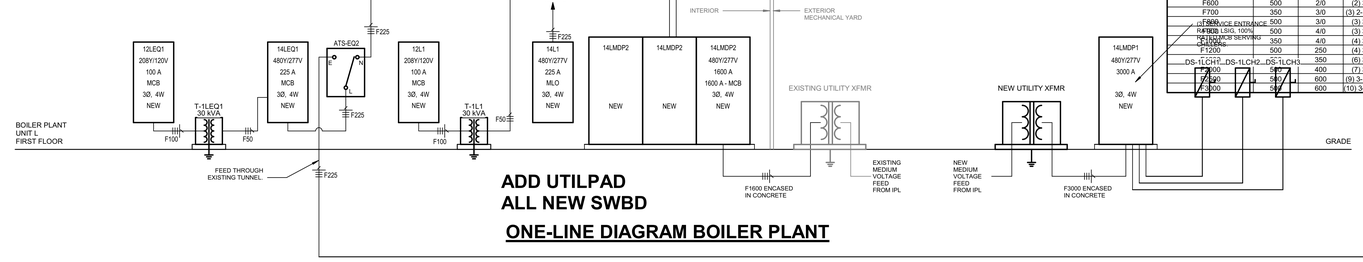

ADD UTILPAD
ALL NEW SWBD

ONE-LINE DIAGRAM BOILER PLANT

FEEDER SCHEDULE (ALUMINUM)

FEEDER LABEL	CONDUCTOR SIZE PER CONDUIT: PHASE & NEUTRAL	CONDUCTOR SIZE PER CONDUIT: EQUIP/SERV GROUND	CONDUIT SIZE & QUANTITY: 3P,1G	3P,1N,1G	3P,2N,1G
F100	1/0	6	1-1/2"	2"	2"
F110	1/0	4	1-1/2	2"	2"
F125	2/0	4	1-1/2"	2"	2"
F150	3/0	4	2"	2"	2-1/2"
F175	4/0	4	2"	2-1/2"	2-1/2"
F200	250	4	2"	2-1/2"	3"
F225	300	2	2-1/2"	3"	3"
F250	350	2	2-1/2"	3"	3"
F300	500	2	3"	3"	3-1/2"
F350	4/0	1	(2) 2"	(2) 2-1/2"	(2) 2-1/2"
F400	250	1	(2) 2-1/2"	(2) 2-1/2"	(2) 3"
F450	300	1/0	(2) 2-1/2"	(2) 3"	(2) 3"
F500	350	1/0	(2) 2-1/2"	(2) 3"	(2) 3"
F600	500	2/0	(2) 3"	(2) 3-1/2"	(2) 3-1/2"
F700	350	3/0	(3) 2-1/2"	(3) 3"	(3) 3"
F800	500	3/0	(3) 3"	(3) 3-1/2"	(3) 3-1/2"
F900	500	4/0	(3) 3"	(3) 3-1/2"	(3) 3-1/2"
F1000	350	4/0	(4) 3"	(4) 3-1/2"	(4) 3-1/2"
F1200	500	250	(4) 3"	(4) 3-1/2"	(4) 3-1/2"
F1600	500	350	(6) 3"	(6) 3-1/2"	(6) 4"
F2000	500	400	(7) 3"	(7) 3-1/2"	(7) 4"
F2500	500	600	(9) 3-1/2"	(9) 3-1/2"	(9) 4"
F3000	500	600	(10) 3-1/2"	(10) 3-1/2"	(10) 4"

FEEDER & BRANCH CIRCUIT SCHEDULE (COPPER)

FEEDER/BRANCH CIRCUIT LABEL	CONDUCTOR SIZE PER CONDUIT: PHASE & NEUTRAL	CONDUCTOR SIZE PER CONDUIT: EQUIP/SERV GROUND	CONDUIT SIZE & QUANTITY: 1P,1N,1G 2P,1G	2P,1N,1G 3P,1G	3P,1N,1G	3P,2N,1G	3P,3N,1G	3P,1N,2G
F20	12	12	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
F30	10	10	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
F40	8	10	3/4"	3/4"	1"	1"	1"	1"
F50	6	10	1"	1"	1"	1-1/4"	1-1/4"	1"
F60	4	10	1"	1"	1-1/4"	1-1/4"	1-1/4"	1-1/4"
F70	4	8	1"	1-1/4"	1-1/4"	1-1/4"	1-1/2"	1-1/4"
F80	3	8	1"	1-1/4"	1-1/4"	1-1/2"	1-1/2"	1-1/4"
F90	2	8	1"	1-1/4"	1-1/2"	1-1/2	2"	1-1/2"
F100	1	8	1-1/4"	1-1/2"	1-1/2"	2"	2"	2"
F110	1	6	1-1/4"	1-1/2"	2"	2"	2-1/2"	2"
F125	1/0	6	1-1/4"	1-1/2"	2"	2"	2-1/2"	2"
F150	1/0	6	1-1/4"	1-1/2"	2"	2"	2-1/2"	2"
F175	2/0	6	1-1/2"	2"	2"	2-1/2"	2-1/2"	2"
F200	3/0	6	1-1/2"	2"	2"	2-1/2"	3"	2-1/2"
F225	4/0	4	2"	2"	2-1/2"	3"		2-1/2"
F250	250	4	2"	2-1/2"	3"	3"		3"
F300	350	4	2"	2-1/2"	3"	3-1/2"		3"
F350	500	3	2-1/2"	3"	3-1/2"	4"		3-1/2"
F400	3/0	3	(2) 1-1/2"	(2) 2"	(2) 2-1/2"	(2) 2-1/2"		(2) 2-1/2"
F450	4/0	2	(2) 2"	(2) 2"	(2) 2-1/2"	(2) 3"		(2) 2-1/2"
F500	250	2	(2) 2"	(2) 2-1/2"	(2) 3"	(2) 3"		(2) 3"
F600	350	1	(2) 2-1/2"	(2) 3"	(2) 3"	(2) 3-1/2"		(2) 3"
F700	500	1/0	(2) 2-1/2"	(2) 3"	(2) 3-1/2"	(2) 4"		(2) 3-1/2"
F800	350	1/0	(3) 2-1/2"	(3) 3"	(3) 3"	(3) 3-1/2"		(3) 3"
F900	350	2/0	(3) 2-1/2"	(3) 3"	(3) 3"	(3) 3-1/2"		
F1000	500	2/0	(3) 2-1/2"	(3) 3"	(3) 3-1/2"	(3) 4"		
F1200	350	3/0	(4) 2-1/2"	(4) 3"	(4) 3"	(4) 3-1/2"		
F1600	500	4/0	(5) 3"	(5) 3"	(5) 3-1/2"	(5) 4"		
F2000	500	250	(6) 3"	(6) 3"	(6) 3-1/2"	(6) 4"		
F2500	500	350	(7) 4"	(7) 3-1/2"	(7) 3-1/2"	(7) 4"		
F3000	500	500	(8) 4"	(8) 3-1/2"	(8) 4"	(8) 4"		

GENERAL POWER NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.
B	FOR CIRCUITS TO REMAIN PREVIOUSLY FED FROM PANELBOARDS REMOVED DURING DEMOLITION, EXTEND NEW CIRCUITS FROM NEW PANELBOARD. VERIFY AND COORDINATE VOLTAGE, AND PROVIDE NEW CIRCUIT BREAKERS OF SIZE, TYPE, AND COORDINATE VOLTAGE, WIRE SIZE, AND CIRCUIT BREAKER RATING WITH EXISTING CONDITIONS.

ONE-LINE PLAN NOTES

#	NOTES
1	EXTEND FEEDER TO NEW SWITCHBOARD.
2	EXTEND EXISTING FEEDER TO NEW REPLACEMENT MDP2 WHEN MDP1 IS DEMOLISHED.
3	EXTEND EXISTING FEEDER TO NEW 12DPJ1 WHEN 1LD1 IS DEMOLISHED.
4	EXTEND NEW FEEDER FROM NEW SWITCHBOARD 14DPJ1 PRIOR TO DEMOLITION OF 1HD1.
5	EXTEND NEW FEEDER FROM NEW SWITCHBOARD 12DPJ1 TO THIS PANELBOARD TO REMAIN PRIOR TO DEMOLITION OF 1LD2.
6	EXTEND NEW FEEDER FROM NEW SWITCHBOARD 12DPJ2 TO THIS PANELBOARD TO REMAIN PRIOR TO DEMOLITION OF 1LD2.
7	EXTEND EXISTING FEEDER TO NEW REPLACEMENT 14DPLS1 WHEN XDP IS DEMOLISHED.
8	PROVIDE SHUNT TRIP MAIN CIRCUIT BREAKER THIS PANELBOARD.

1A **ONE-LINE DIAGRAM**
NO SCALE

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Project No. 2018-050.LCH
Project Date 05.05.2020
Produced JTH EAG

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Sarah K Hempstead

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#	Revision	Date
1	Addendum #1	05.14.2020

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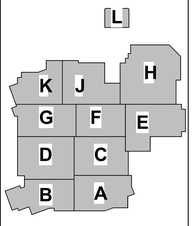

KEY PLAN

MSD OF LAWRENCE TOWNSHIP

ADDITIONS AND RENOVATIONS TO LAWRENCE CENTRAL HIGH SCHOOL

ONE-LINE DIAGRAM - EXISTING BUILDING

E-602