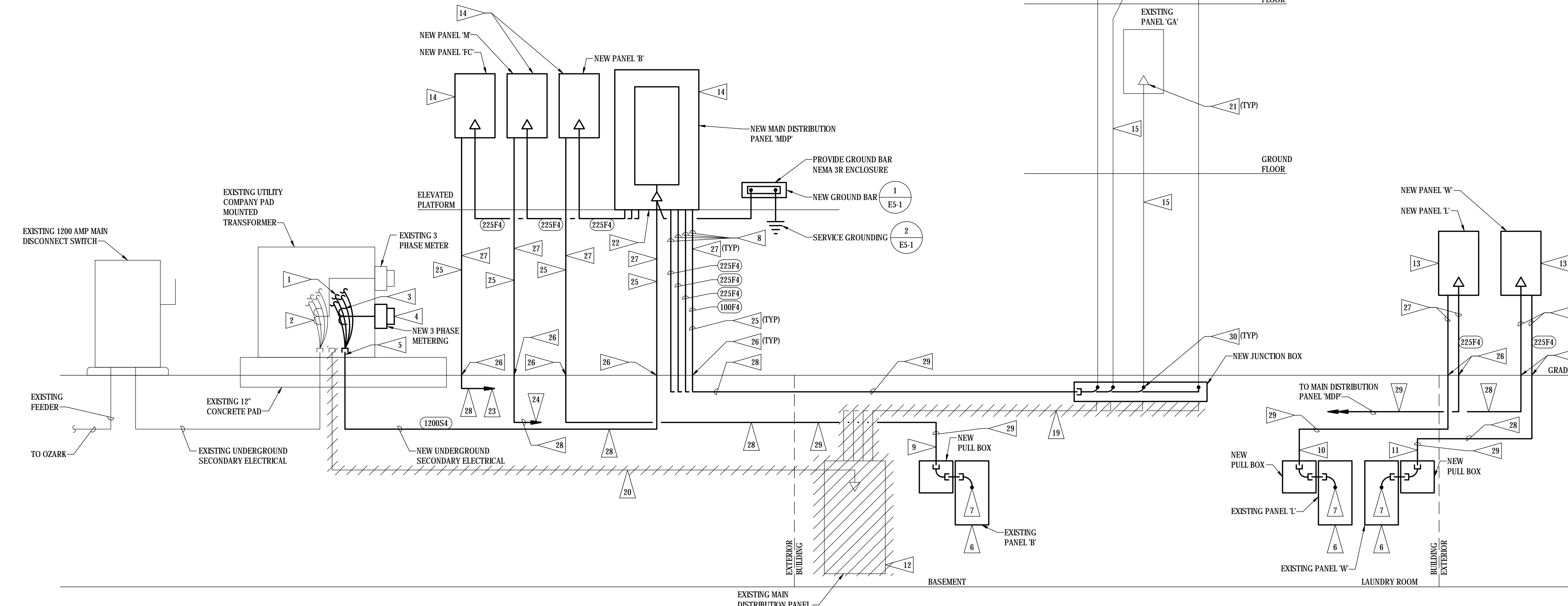


EMERGENCY ONE LINE DIAGRAM
NO SCALE



ONE LINE DIAGRAM
NO SCALE

- FLAG NOTES**
- 1 UTILITY COMPANY TO MAKE FINAL CONNECTION OF SECONDARY ELECTRICAL CONDUCTORS.
 - 2 EXISTING CURRENT TRANSFORMERS.
 - 3 NEW CURRENT TRANSFORMERS PROVIDED BY UTILITY COMPANY.
 - 4 NEW METERING PROVIDED BY UTILITY COMPANY.
 - 5 PROVIDE OPENING IN EXISTING 12" THICK CONCRETE PAD FOR ADDITIONAL SECONDARY ELECTRICAL CONDUITS.
 - 6 REMOVE EXISTING LUGS, BUSBARS, AND CIRCUIT BREAKERS FROM EXISTING PANEL AND CONVERT INTO A JUNCTION BOX. EXISTING BRANCH FEEDERS AND CIRCUITS TO REMAIN.
 - 7 SPLICE NEW CONDUCTORS TO EXISTING CONDUCTORS.
 - 8 PROVIDE THE FOLLOWING FEEDERS FOR EXISTING LOADS:
1-100/3 THIRD FLOOR PANEL '3B' 100F4
1-225/3 FIRST FLOOR PANEL 'GA' 225F4
1-225/3 SECOND FLOOR PANEL '2A' 225F4
1-225/3 THIRD FLOOR PANEL '3A' 225F4
 - 9 PROVIDE THE FOLLOWING BRANCH CIRCUITS FOR EXISTING LOADS:
8-20/1 20 #10, 1 #10 GROUND IN 2" C
10-20/1 20 #10, 1 #10 GROUND IN 2" C
10-20/1 20 #10, 1 #10 GROUND IN 2" C
1-40/2, 1-30/2, 1-20/1 GFCL 1-20/1 SPARE 2 #6, 2 #8, 4 #10, 1 #8 GROUND IN 2" C
3-20/2, 6 #12, 1 #12 GROUND IN 3/4" C
 - 10 PROVIDE THE FOLLOWING BRANCH CIRCUITS FOR EXISTING LOADS:
8-20/1 GFCL 16 #10, 1 #10 GROUND IN 2" C
8-20/1 GFCL 16 #10, 1 #10 GROUND IN 2" C
6-20/1 SPARES 12 #10, 1 #10 GROUND IN 1 1/2" C
1-20/2, 1-20/1 4 #12, 1 #12 GROUND IN 3/4" C
 - 11 PROVIDE THE FOLLOWING BRANCH CIRCUITS FOR EXISTING LOADS:
2-30/3 6 #10, 1 #10 GROUND IN 1 1/4" C
5-20-3 15 #10, 1 #10 GROUND IN 2" C
1-30/3 SPARE, 1-20/3 SPARE 6 #10, 1 #10 GROUND IN 1 1/4" C
 - 12 REMOVE EXISTING MAIN DISTRIBUTION PANEL.
 - 13 MOUNT ON GROUND MOUNTED UNISTRUT FRAMEWORK, SEE DETAIL 7/E5-1.
 - 14 MOUNT ON UNISTRUT FRAMEWORK, ATTACHED TO ELEVATED PLATFORM AND RAILING.
 - 15 REMOVE EXISTING FEEDER CONDUCTORS, PROVIDE 4 #40, 1 #4 GROUND IN EXISTING CONDUIT.
 - 16 REMOVE EXISTING FEEDER CONDUCTORS, PROVIDE 4 #2, 1 #6 GROUND IN EXISTING CONDUIT.
 - 17 PROVIDE A NATURAL GAS POWERED 45KW, 208/120V 3 PHASE 4 WIRE EMERGENCY GENERATOR WITH WEATHERPROOF ENCLOSURE.
 - 18 PROVIDE TWO 120X240 INPUT, 16X32 OUTPUT 12 KVA BUCK/BOOST TRANSFORMERS WITH NEMA 3R ENCLOSURE TO BOOST VOLTAGE FROM 208V 3 PHASE TO 230V 3 PHASE OUTPUT.
 - 19 REMOVE EXISTING FEEDER CONDUCTORS AND CONDUITS.
 - 20 REMOVE EXISTING SERVICE ENTRANCE CONDUCTORS, ABANDON UNDERGROUND CONDUIT.
 - 21 TERMINATE NEW FEEDER CONDUCTORS ON EXISTING LUGS.
 - 22 NEW DISTRIBUTION PANEL SHALL HAVE A FACTORY INSTALLED BOTTOM.
 - 23 MULTIPLE CIRCUITS TO NEW FAN COIL UNITS. REFER TO MECHANICAL/ELECTRICAL COORDINATE SCHEDULE ON SHEET E6-1 AND PANEL 'FC' SCHEDULE ON SHEET E6-2.
 - 24 MULTIPLE CIRCUITS TO NEW MECHANICAL EQUIPMENT. REFER TO MECHANICAL/ELECTRICAL COORDINATE SCHEDULE ON SHEET E6-1 AND PANEL SCHEDULE 'M' ON SHEET E6-3.
 - 25 PROVIDE GROUND MOUNTED AND ELEVATED PLATFORM MOUNTED UNISTRUT FRAMEWORK TO SUPPORT VERTICAL CONDUIT FROM GRADE UP TO ELEVATED PLATFORM.
 - 26 PROVIDE FIBERGLASS CONDUIT EXPANSION FITTING(S).
 - 27 CONDUIT ABOVE GRADE SHALL BE FIBERGLASS, PRIME AND PAINT WITH TWO COATS OF BLACK PAINT AS RECOMMENDED BY THE MANUFACTURER.
 - 28 CONDUIT BELOW GRADE SHALL BE FIBERGLASS.
 - 29 CONDUIT INSIDE THE BUILDING SHALL BE ELECTRICAL METALLIC TUBING EMT.
 - 30 ROUTE NEW FEEDER CONDUCTORS INTO EXISTING FEEDER CONDUIT.

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 DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS and clearances from ARCHITECTURAL, STRUCTURAL, shop and other appropriate drawing or at site. lay out and coordinate all work prior to installation to provide clearances required for operation, maintenance, and codes and verify non-interference with other work. DO NOT FABRICATE PRIOR TO VERIFICATION OF CLEARANCE FOR ALL TRADES. READ SPECIFICATIONS.

FINAL CONSTRUCTION DOCUMENTS

A/E FIRM PRIME: KENNETH HAHN ARCHITECTS, INC. OMAHA, NE. SUBCONTRACTOR: ALVINE ENGINEERING OMAHA, NE.	DESIGNED: RCF	SUB SHEET NO. E4-1	TITLE OF SHEET ONE LINE DIAGRAMS BUCKSTAFF BATHHOUSE HVAC HOT SPRINGS NATIONAL PARK HOT SPRINGS, AK	DRAWING NO. XXX/XXXX
	DRAWN BY: JAS			PMIS NO. 177425
	TECH. REVIEW: GAN			SHEET
	DATE: 2/15/2024			47 OF 60

February 16, 2024, 11:06am 20239955_E4-1.dwg gpc/mrm