

DATE	REVISIONS	BY



WABASH VALLEY HEALTH CENTER, INC.
 1436 LOCUST STREET
 TERRE HAUTE, INDIANA 47807
 BUILDING ADDITIONS & RENOVATION

MICHAEL R. WALDBIESER
 ENGINEER AND CONSULTING INC.
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 TERRE HAUTE, INDIANA 47807
 PHONE: (812) 232-0510

SCALE: 3/16" = 1'-0"
 DATE: 09-11-19
 DRAWN BY: MRW
 APPROVED BY: MRW

PROJECT: 18-20
 FILE: Elec #F
E1.0

SYMBOL LEGEND

D	DEMO EXISTING LIGHT FIXTURE COMPLETE	D \oplus D \oplus D \oplus D \oplus	DEMO EXISTING RECEPTACLE COMPLETE
D	DEMO EXISTING LIGHT FIXTURE COMPLETE	D \$ D \$ ₃	DEMO EXISTING LIGHT SWITCH COMPLETE
D	DEMO EXISTING LIGHT FIXTURE COMPLETE	EX \oplus EX \oplus EX \oplus EX \oplus	EXISTING RECEPTACLE REMAINS
D	DEMO EXISTING LIGHT FIXTURE COMPLETE	EX \$ EX \$ ₃	EXISTING LIGHT SWITCH REMAINS
D	DEMO EXISTING EMERGENCY FIXTURE COMPLETE		
EX	EXISTING LIGHT FIXTURE REMAINS		
EX	EXISTING LIGHT FIXTURE REMAINS		
EX	EXISTING LIGHT FIXTURE REMAINS		
EX	EXISTING LIGHT FIXTURE REMAINS		
EX	EXISTING EMERGENCY FIXTURE REMAINS		

NUMBERED NOTES:

- ① DISCONNECT POWER TO EXISTING GAS FURNACE. RE-CONNECT TO NEW GAS FURNACE AFTER INSTALLATION BY M.C.
- ② EXISTING PANEL 'A'
 200 AMP MLD
 120 / 240 VOLT
 40 CIRCUIT
 EXISTING BREAKERS
 1 - 50 AMP 2P EXISTING A/C TO BE REMOVED COMPLETE
 2 - 20 AMP 2P UNKNOWN
 3 - 30 AMP 2P ELECTRIC HEATER NORTH ENTRANCE
 4 - 30 AMP 2P WATER HEATER
 1 - 30 AMP 2P FOR SNOW MELT - EAST STEPS & NORTH ENTRY TO BE REMOVED COMPLETE
 1 - 20 AMP 2P FOR SNOW MELT - EAST STEPS & NORTH ENTRY TO BE REMOVED COMPLETE
 1 - 20 AMP 1P FOR SNOW MELT - EAST STEPS & NORTH ENTRY TO BE REMOVED COMPLETE
 REMAINDER ARE 20 AMP 1P EXISTING VARIOUS
- ③ EXISTING PANEL 'B'
 200 AMP MLD
 120 / 240 VOLT
 40 CIRCUIT
 EXISTING BREAKERS
 1 - 90 AMP 2P EXISTING SUB PANEL 'C'
 1 - 20 AMP 2P HEATER AT MAIN ENTRANCE WEST TO BE REMOVED COMPLETE
 2 - 50 AMP 2P EXISTING ELECTRIC OVENS IN KITCHEN
 1 - 100 AMP 2P EXISTING SUB PANEL 'B1'
 30 - 20 AMP 1P EXISTING VARIOUS
- ④ EXISTING PANEL 'B1'
 100 AMP MLD
 120 / 240 VOLT
 12 CIRCUIT
 EXISTING BREAKERS
 1 - 20 AMP 2P EXISTING DRYER
 6 - 20 AMP 1P EXISTING VARIOUS
 FED FROM PANEL 'B'
- ⑤ EXISTING PANEL 'C'
 100 AMP MLD
 120 / 240 VOLT
 6 CIRCUIT
 3 - 20 AMP 2P EXISTING BREAKERS
 FED FROM PANEL 'B'
- ⑥ EXISTING PANEL 'S'
 SNOW MELT PANEL
 100 AMP MLD
 120 / 240 VOLT
 4 - 30 AMP 2P EXISTING
 1 - 20 AMP 2P EXISTING
 1 - 20 AMP 1P EXISTING CONTROLS
 FED FROM EXISTING PANEL 'A'
 TO BE REMOVED COMPLETE INCLUDING FEEDS FROM PANEL 'A'
- ⑦ REMOVE EXISTING WALL MOUNTED OCCUPANCY SENSOR.
- ⑧ DISCONNECT EXISTING EXHAUST FAN RE-CONNECT AFTER INSTALLED IN NEW CEILING

NOTE:
 REFER TO SITE UTILITY DRAWING AND SITE LIGHTING DRAWING FOR ADDITIONAL WORK BY THE ELECTRICAL CONTRACTOR. ALSO REFER TO ARCHITECTURAL ELEVATIONS.

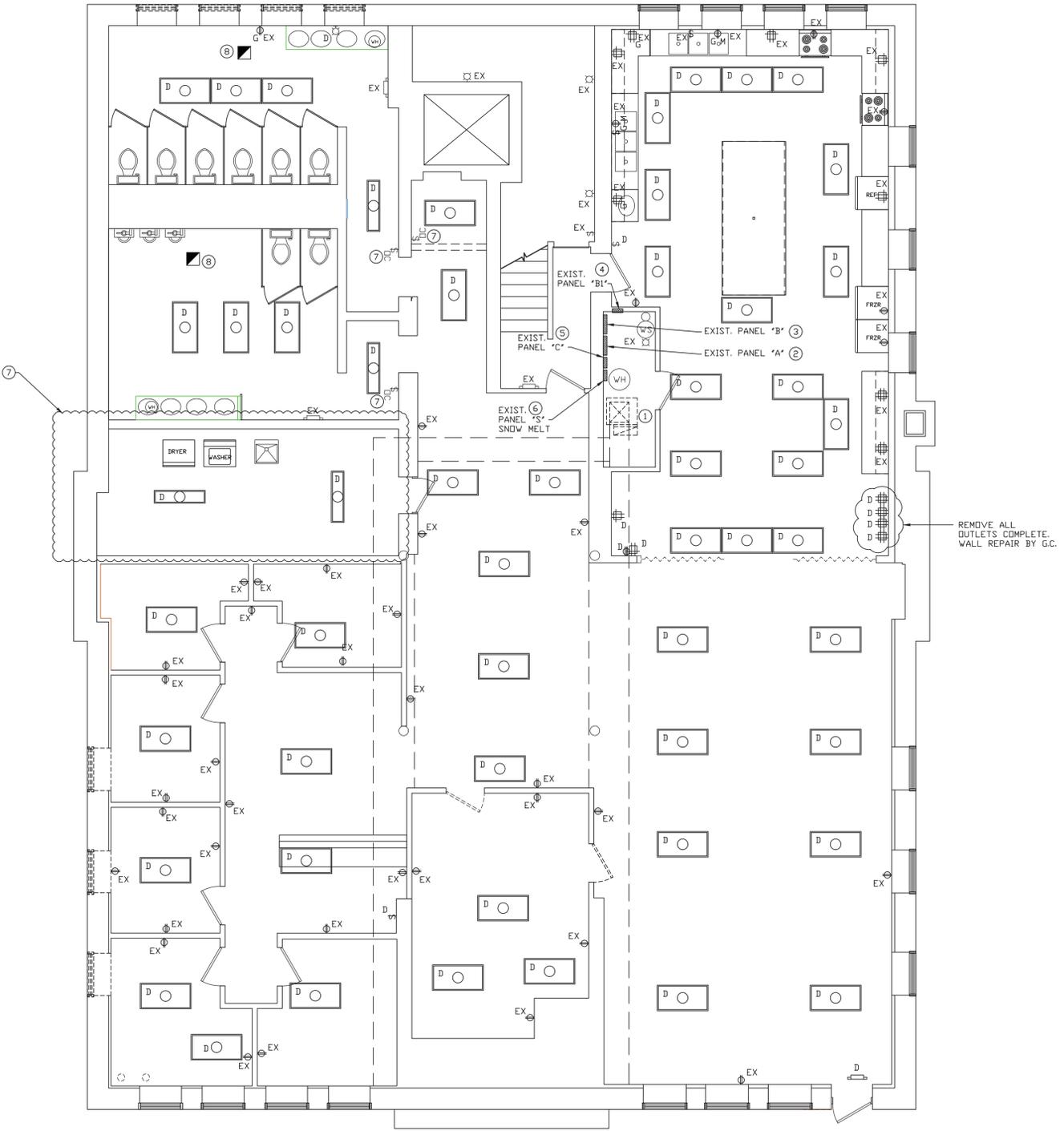
CONSTRUCTION PHASING NOTE:
 REFER TO CONSTRUCTION PHASING DRAWINGS #PH1, #PH2, AND #PH3 FOR THE CONSTRUCTION SEQUENCE OF THE PROJECT.

GENERAL NOTES:

1. ALL CONTRACTORS AND SUB-CONTRACTORS SHALL REVIEW ALL DRAWINGS FOR WORK PERFORMED BY THAT CONTRACTOR.
 2. ALL WALLS INDICATED ON THE ARCHITECTURAL PLANS AS FIRE RATED SHALL BE PROPERLY FIRE CAULKED FOR ALL PENETRATIONS.
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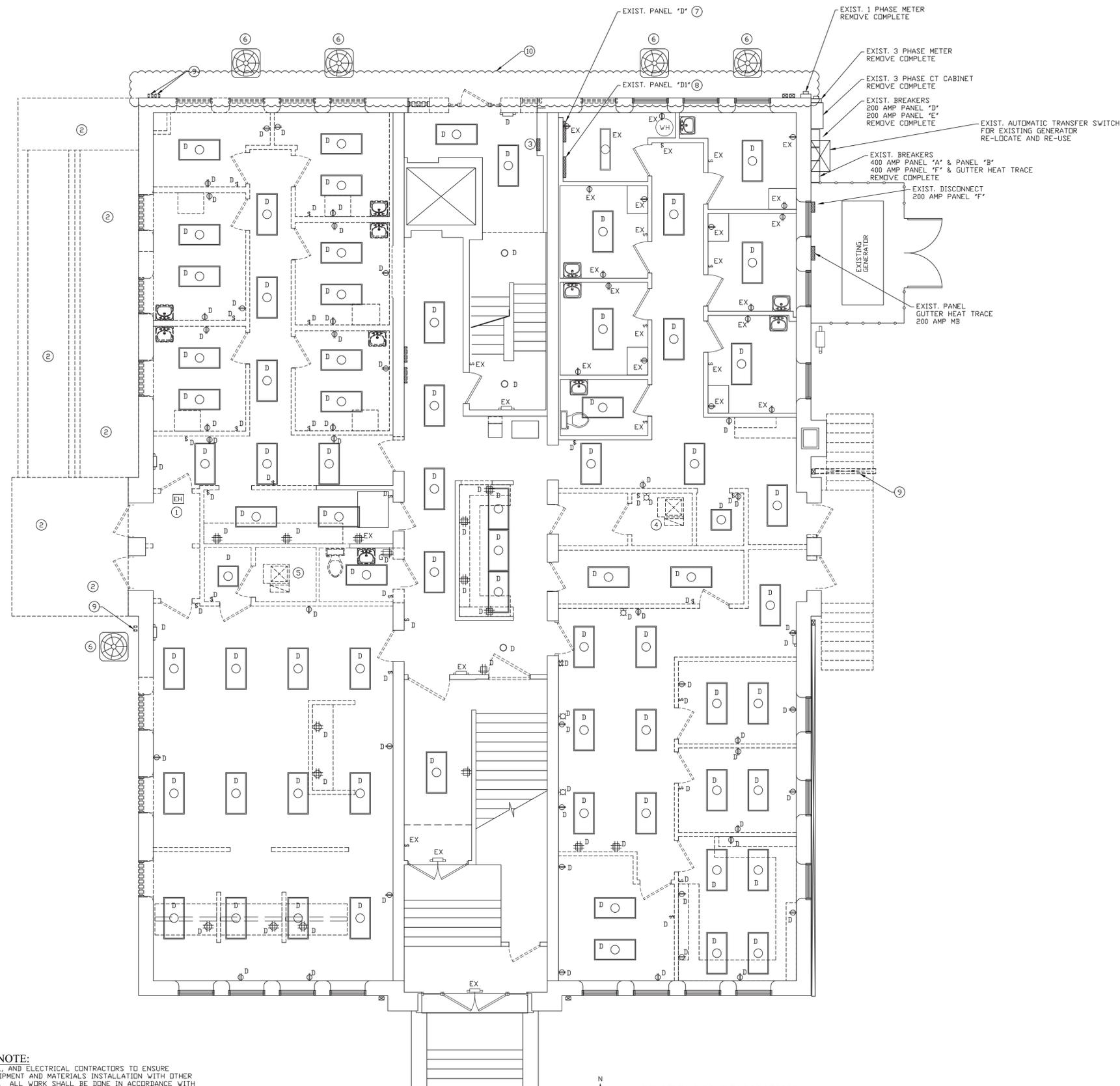
GOVERNING CODES

- 2014 INDIANA BUILDING CODE (IBC 2012 EDITION - WITH INDIANA AMENDMENTS)
- 2014 INDIANA FIRE CODE (IFC 2012 EDITION - WITH INDIANA AMENDMENTS)
- 2012 INDIANA PLUMBING CODE (IPC 2006 EDITION - WITH INDIANA AMENDMENTS)
- 2014 INDIANA MECHANICAL CODE (IMC 2012 EDITION - WITH INDIANA AMENDMENTS)
- 2010 INDIANA ENERGY CONSERVATION CODE (ANSI/ASHRAE 90.1 - 2007 EDITION - WITH INDIANA AMENDMENTS)
- 2009 INDIANA ELECTRICAL CODE (NEC 2008 EDITION - WITH INDIANA AMENDMENTS)



LOWER LEVEL DEMOLITION ELECTRICAL PLAN
 SCALE: 3/16" = 1'-0"

GENERAL MEP NOTE:
 PLUMBING, MECHANICAL, AND ELECTRICAL CONTRACTORS TO ENSURE COORDINATION OF EQUIPMENT AND MATERIALS INSTALLATION WITH OTHER BUILDING COMPONENTS. ALL WORK SHALL BE DONE IN ACCORDANCE WITH STATE, COUNTY, CITY BUILDING REGULATIONS AND CODES AS WELL AS INDUSTRY STANDARD PRACTICE. THESE REQUIREMENTS ARE CONSIDERED PART OF THE PLANS AND SPECIFICATIONS AND SHALL PREVAIL SHOULD THEY DIFFER FROM THE PLANS AND SPECIFICATIONS. PRIOR TO BID SUBMISSION, THE CONTRACTOR SHOULD DIRECT THE ENGINEER'S ATTENTION TO ANY DISCREPANCY. SHOULD THE PRIME CONTRACTOR NOT SO NOTIFY THE ENGINEER, THE CONTRACTORS SHALL FULLY COMPLY WITHOUT CLAIM FOR EXTRA COSTS. REFER TO DRAWINGS FOR GOVERNING BUILDING CODES.



SYMBOL LEGEND

D	DEM'D EXISTING LIGHT FIXTURE COMPLETE	D ⊕ D ⊕ D ⊕ D ⊕	DEM'D EXISTING RECEPTACLE COMPLETE
D	DEM'D EXISTING LIGHT FIXTURE COMPLETE	D \$ D \$	DEM'D EXISTING LIGHT SWITCH COMPLETE
D	DEM'D EXISTING LIGHT FIXTURE COMPLETE	EX ⊕ EX ⊕ EX ⊕ EX ⊕	EXISTING RECEPTACLE REMAINS
D	DEM'D EXISTING LIGHT FIXTURE COMPLETE	EX \$ EX \$	EXISTING LIGHT SWITCH REMAINS
D	DEM'D EXISTING EMERGENCY FIXTURE COMPLETE		
EX	EXISTING LIGHT FIXTURE REMAINS		
EX	EXISTING LIGHT FIXTURE REMAINS		
EX	EXISTING LIGHT FIXTURE REMAINS		
EX	EXISTING EMERGENCY FIXTURE REMAINS		

NUMBERED NOTES:

- 1 REMOVE EXISTING CEILING MOUNTED ELECTRICAL HEATER COMPLETE, INCLUDING ALL CONTROLS.
- 2 DISCONNECT AND COMPLETELY REMOVE EXISTING RAMP HEATING SYSTEM.
- 3 EXISTING ELECTRICAL WALL HEATER REMAINS.
- 4 DISCONNECT POWER TO EXISTING GAS FURNACE. RE-CONNECT TO NEW GAS FURNACE GF-3 AFTER INSTALLATION BY M.C. EXTEND POWER WIRING AS REQUIRED.
- 5 DISCONNECT POWER TO EXISTING GAS FURNACE. REMOVE POWER WIRING BACK TO ELECTRICAL PANEL.
- 6 DISCONNECT POWER TO EXISTING AIR CONDITIONER. REMOVE ALL DISCONNECTS, CONNECTIONS, POWER WIRING, AND BREAKER IN EXISTING ELECTRICAL PANEL. NEW AIR CONDITIONERS WILL BE FED FROM NEW ELECTRICAL PANELS IN BUILDING ADDITION.
- 7 EXISTING PANEL 'D' 200 AMP MB 120 / 240 VOLT 40 CIRCUIT EXISTING BREAKERS
 1 - 50 AMP 2P EXISTING A/C UNIT TO BE REMOVED COMPLETE
 1 - 50 AMP 2P EXISTING A/C UNIT TO BE REMOVED COMPLETE
 3 - 30 AMP 2P EXISTING SNOW MELT ON WEST SIDE TO BE REMOVED COMPLETE
 1 - 20 AMP 1P EXISTING SNOW MELT ON WEST SIDE - CONTROLS TO BE REMOVED COMPLETE
 1 - 100 AMP 2P EXISTING PANEL 'D1'
 1 - 30 AMP 2P EXISTING HOT WATER HEATER
 REMAINDER ARE 20 AMP 1P EXISTING VARIOUS
- 8 EXISTING PANEL 'D1' 100 AMP MB OR MLP 120 / 240 VOLT 24 CIRCUIT 12 - 20 AMP 1P EXISTING BREAKERS FED FROM PANEL 'D'
- 9 EXISTING HEAT TRACE WILL NEED TO BE REWORKED IN EXISTING DOWNSPUT. PROVIDE WORK AS REQUIRED.
- 10 REMOVE ALL EXISTING SURFACE MOUNTED CONDUITS, WIRING, AND LIGHT FIXTURES ON THIS ENTIRE BUILDING ELEVATION.

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FIRST FLOOR DEMOLITION ELECTRICAL PLAN
 SCALE: 3/16" = 1'-0"

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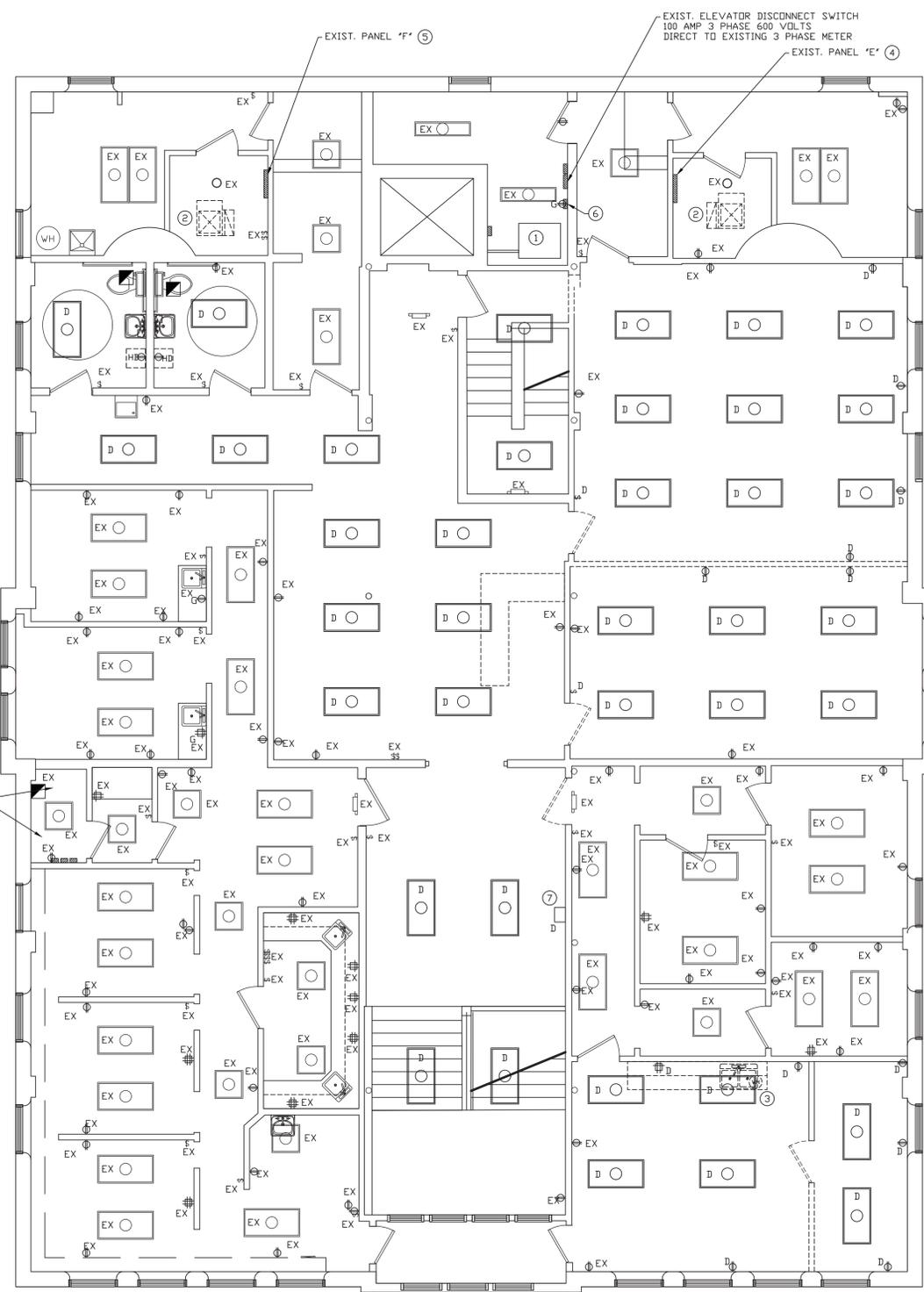


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 1436 LOCUST STREET
 TERRE HAUTE, INDIANA 47807
 BUILDING ADDITIONS & RENOVATION

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E1.1



EXISTING EQUIPMENT IS SET UP FOR 240 VOLT RELOCATE ALL EQUIPMENT TO NEW PANEL 'G' AS REQUIRED. MAKE CHANGES TO CONTROLLERS AS REQUIRED.

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SECOND FLOOR DEMOLITION ELECTRICAL PLAN
 SCALE: 3/16" = 1'-0"

SYMBOL LEGEND

D 	DEMO EXISTING LIGHT FIXTURE COMPLETE	D Φ D Φ D Φ D Φ	DEMO EXISTING RECEPTACLE COMPLETE
D 	DEMO EXISTING LIGHT FIXTURE COMPLETE	D \$ D \$ ₃	DEMO EXISTING LIGHT SWITCH COMPLETE
D 	DEMO EXISTING LIGHT FIXTURE COMPLETE	EX Φ EX Φ EX Φ EX Φ	EXISTING RECEPTACLE REMAINS
D 	DEMO EXISTING LIGHT FIXTURE COMPLETE	EX \$ EX \$ ₃	EXISTING LIGHT SWITCH REMAINS
D 	DEMO EXISTING EMERGENCY FIXTURE COMPLETE		
EX 	EXISTING LIGHT FIXTURE REMAINS		
EX 	EXISTING LIGHT FIXTURE REMAINS		
EX 	EXISTING LIGHT FIXTURE REMAINS		
EX 	EXISTING LIGHT FIXTURE REMAINS		
EX 	EXISTING EMERGENCY FIXTURE REMAINS		

NUMBERED NOTES:

- ① EXISTING ELEVATOR MOTOR ASSEMBLY. 208 VOLT 3 PHASE. 20 HP 208 VOLT 3 PHASE
- ② DISCONNECT POWER TO EXISTING GAS FURNACE. RE-CONNECT TO NEW GAS FURNACE AFTER INSTALLATION BY MC.
- ③ DISCONNECT POWER TO EXISTING UNDER COUNTER WATER HEATER. CONNECT TO NEW UNIT AND EXTEND POWER WIRING AS REQUIRED.
- ④ EXISTING PANEL 'E'
 200 AMP MLD
 120 / 240 VOLT
 40 CIRCUIT
 EXISTING BREAKERS
 2 - 60 AMP 2P EXISTING A/C TO BE REMOVED COMPLETE
 1 - 20 AMP 2P EXISTING VACUUM TO BE RELOCATED TO PANEL 'G'
 1 - 20 AMP 2P EXISTING HWH
 1 - 30 AMP 2P EXISTING VACUUM TO BE RELOCATED TO PANEL 'G'
 1 - 20 AMP 2P EXISTING DENTAL EQUIPMENT TO BE RELOCATED TO PANEL 'G'
 13 - 20 AMP 1P TANDEM EXISTING VARIOUS REMAINING ARE 20 AMP 1P EXISTING VARIOUS
- ⑤ EXISTING PANEL 'F'
 200 AMP MLD
 120 / 240 VOLT
 42 CIRCUIT
 20 - 20 AMP 1P EXISTING DENTAL
 1 - 30 AMP 2P ELECTRIC HEATER
- ⑥ EXISTING ELEVATOR CAB LIGHTS JUNCTION BOX
 CIRCUIT 10
 FED FROM GFI
 CHANGE CIRCUIT FEEDING THIS JB TO STAND ALONE CIRCUIT FED FROM PANEL 'E' OR PANEL 'F'
- ⑦ REMOVE EXISTING SURFACE MOUNTED BELL AND WIRING COMPLETE

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 TERRE HAUTE, INDIANA 47807
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MICHAEL R. WALDBIESER
 ENGINEER & CONSULTING, INC.
 STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING
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SCALE: 3/16" = 1'-0"
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E1.2

DATE	REVISIONS	BY

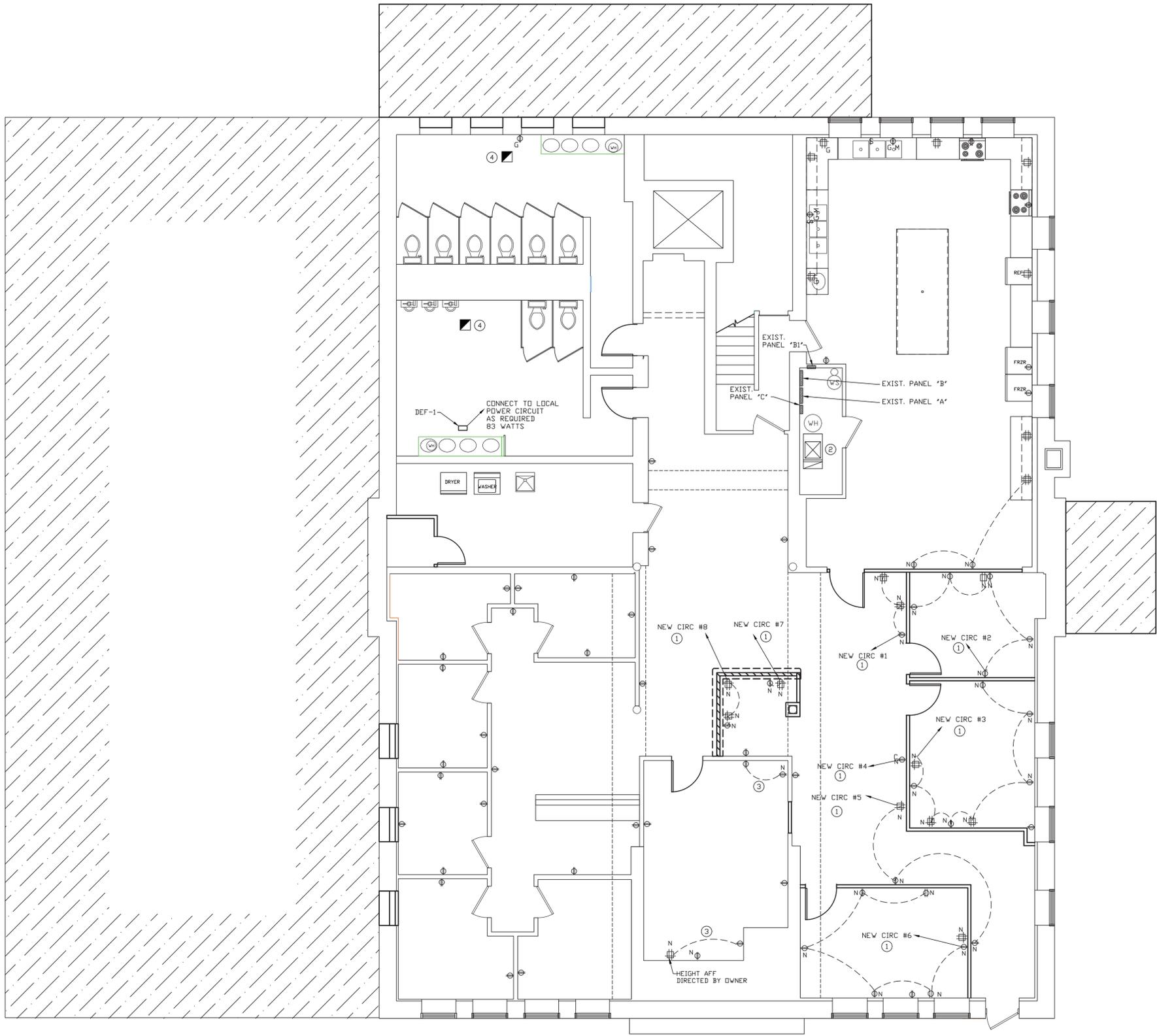


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- NUMBERED NOTES:**
- CONNECT TO EXISTING LOWER LEVEL PANELS AS REQUIRED. PROVIDE ADDITIONAL BREAKERS AND TANDEM BREAKERS AS REQUIRED.
 - CONNECT EXISTING POWER TO NEW GAS FURNACE. PROVIDE NEW SWITCH FOR DISCONNECT. ALSO RE-CONNECT POWER FROM EXISTING CONDENSATE PUMP TO NEW CONDENSATE PUMP AS REQUIRED.
 - CONNECT TO POWER TO EXISTING EXHAUST FAN WHICH HAS BEEN REINSTALLED IN NEW CEILING.

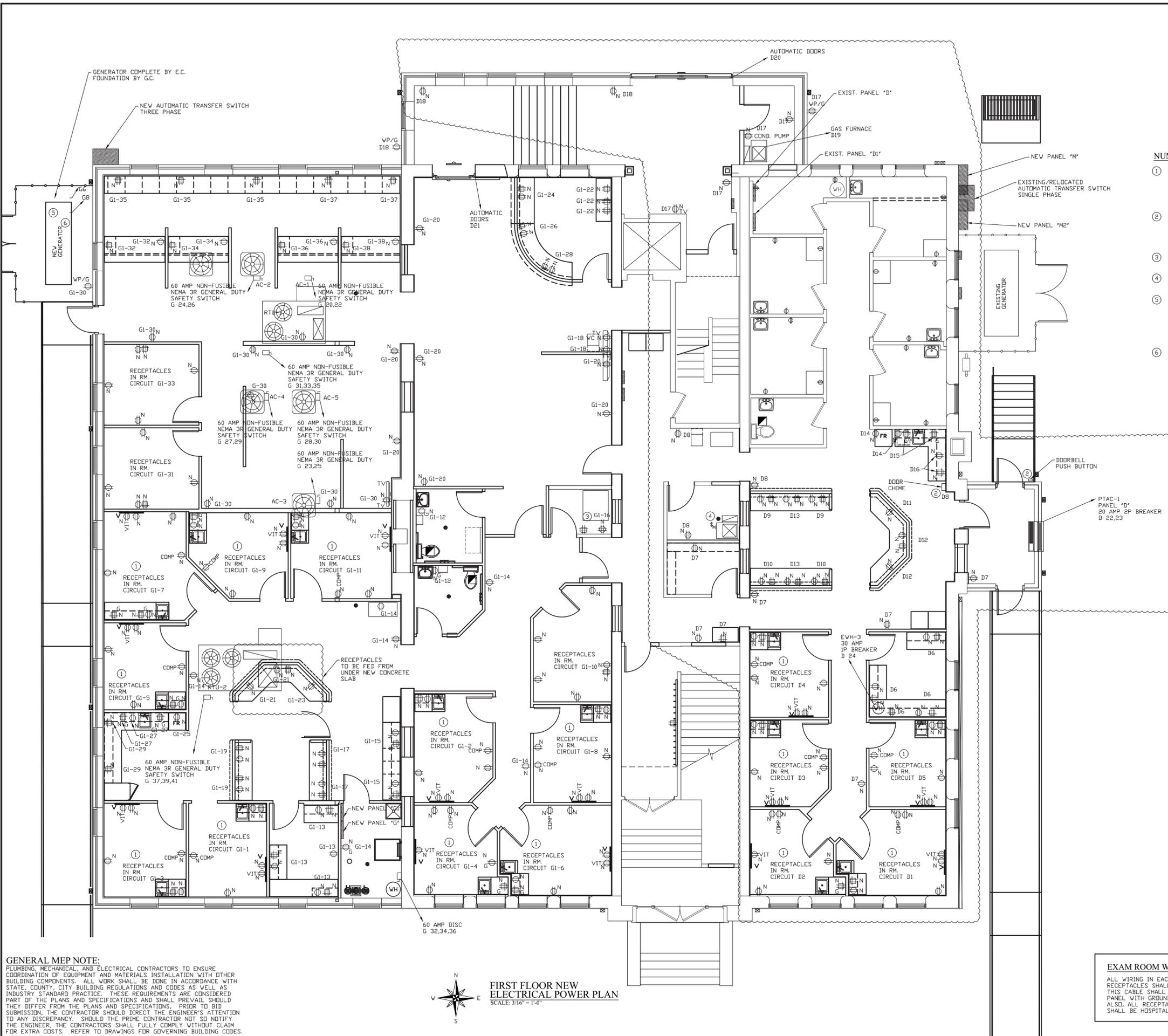
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LOWER LEVEL NEW ELECTRICAL POWER PLAN
 SCALE: 3/16" = 1'-0"

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NUMBERED NOTES:

- ① ALL WIRING IN EACH EXAM ROOM FOR ALL RECEPTACLES SHALL BE HEALTHCARE MC CABLE. THIS CABLE SHALL EXTEND BACK TO ELECTRICAL PANEL WITH GROUNDING PER THE NEC. ALSO, ALL RECEPTACLES IN ALL EXAM ROOMS SHALL BE HOSPITAL GRADE.
- ② NUTONE #BK115LWH DOOR CHIME KIT WITH CHIME, TRANSFORMER, AND LIGHTED PUSH BUTTON. PROVIDE 120 VOLT POWER TO TRANSFORMER. PROVIDE AND INSTALL LOW VOLTAGE WIRING BETWEEN CHIME AND LIGHTED PUSH BUTTON AS REQUIRED.
- ③ LOCATE 2 NEW RECEPTACLES IN THE IT ROOM AT LOCATION DIRECTED BY THE OWNER.
- ④ CONNECT GAS FURNACE TO EXISTING GAS FURNACE CIRCUIT AS REQUIRED.
- ⑤ GAS GENERATOR COMPLETE BY ELECTRICAL CONTRACTOR 120/208 VOLT, 60 HERTZ, 3 PHASE 130KW ON NATURAL GAS WITH SERVICE ENTRANCE RATED 400 AMP AUTOMATIC TRANSFER SWITCH REFER TO WRITTEN SPECIFICATIONS FOR MORE INFORMATION.
- ⑥ PROVIDE CONDUIT AND STARTING WIRES BETWEEN NEW GENERATOR AND NEW MECHANICAL ROOM #143 ALSO PROVIDE SPARE CONDUIT AS REQUIRED FOR ANNUNCIATOR. REFER TO WIRING DIAGRAM ON DRAWING #E6.2

ALL CIRCUITS SHOWN ARE GENERIC IN FORM AND GO BACK TO PANEL "D1" OR PANEL "D1". REMOVE ALL TANDEM BREAKERS IF ALLOWED BY SPACE. REMOVE UNUSED BREAKERS. PROVIDE BLANKS AS REQUIRED. PROVIDE NEW BREAKERS AS REQUIRED.

EXAM ROOM WIRING NOTE:
ALL WIRING IN EACH EXAM ROOM FOR ALL RECEPTACLES SHALL BE HEALTHCARE MC CABLE. THIS CABLE SHALL EXTEND BACK TO ELECTRICAL PANEL WITH GROUNDING PER THE NEC. ALSO, ALL RECEPTACLES IN ALL EXAM ROOMS SHALL BE HOSPITAL GRADE.

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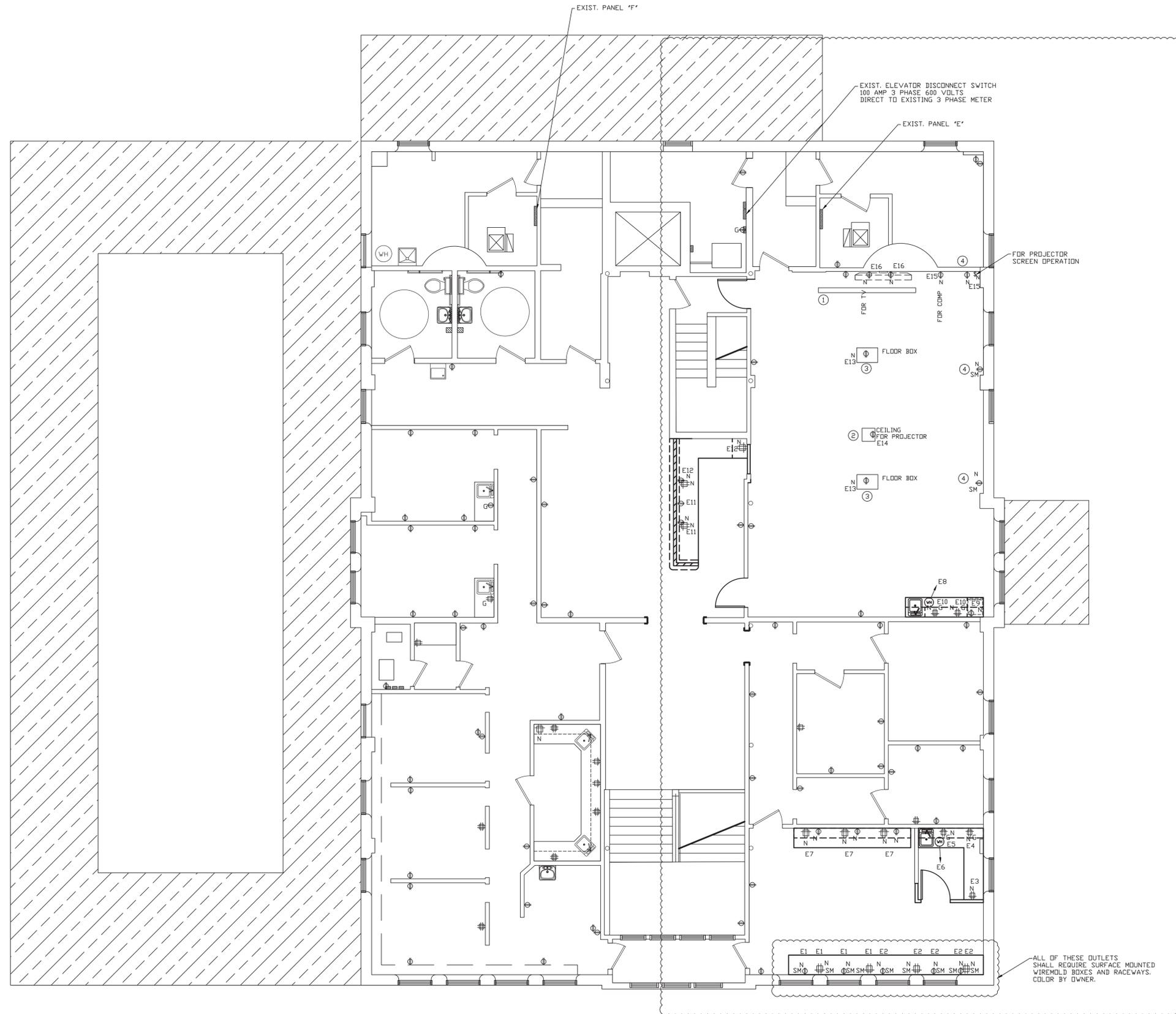
SCALE: 3/16" = 1'-0"
 DATE: 09-11-19
 DRAWN BY: MRW
 APPROVED BY: MRW

PROJECT: 18-20
 FILE: Elec #F
E2.2

NUMBERED NOTES:

- PROJECTOR SCREENED SUPPLIED BY THE OWNER. INSTALLED BY E.C. COMPLETE. UNIT WILL BE POWERED WITH WALL SWITCH.
- CEILING HUNG PROJECTOR SUPPLIED BY THE OWNER. INSTALLED BY E.C. COMPLETE. MOUNTING/SUSPENSION ITEMS BY OWNER. INSTALLED BY E.C.
- NEW SYSTEM ONE MODULAR IN FLOOR SYSTEM. PROVIDE WITH THE FOLLOWING:
 - ROUND MULTI-SERVICE PVC FLOOR BOX
 - CARPET ASSEMBLY UNIVERSAL COVER
 - COLOR SELECTED BY OWNER
 - SUB-PLATE FOR POWER, DATA, AND TELEPHONE CONNECTIONS.
- CONNECT TO EXISTING CIRCUIT USED FOR REMOVED RECEPTACLE AT THIS LOCATION.

ALL CIRCUITS SHOWN ARE GENERIC IN FORM AND GO BACK TO PANEL 'E' OR PANEL 'F'. REMOVE ALL TANDEM BREAKERS IF ALLOWED BY SPACE. REMOVE UNUSED BREAKERS. PROVIDE BLANKS AS REQUIRED. PROVIDE NEW BREAKERS AS REQUIRED.



ALL OF THESE OUTLETS SHALL REQUIRE SURFACE MOUNTED WIREMOLD BOXES AND RACEWAYS. COLOR BY OWNER.

GENERAL MEP NOTE:
 PLUMBING, MECHANICAL, AND ELECTRICAL CONTRACTORS TO ENSURE COORDINATION OF EQUIPMENT AND MATERIALS INSTALLATION WITH OTHER BUILDING COMPONENTS. ALL WORK SHALL BE DONE IN ACCORDANCE WITH STATE, COUNTY, CITY BUILDING REGULATIONS AND CODES AS WELL AS INDUSTRY STANDARD PRACTICE. THESE REQUIREMENTS ARE CONSIDERED PART OF THE PLANS AND SPECIFICATIONS AND SHALL PREVAIL SHOULD THEY DIFFER FROM THE PLANS AND SPECIFICATIONS. PRIOR TO BID SUBMISSION, THE CONTRACTOR SHOULD DIRECT THE ENGINEER'S ATTENTION TO ANY DISCREPANCY. SHOULD THE PRIME CONTRACTOR NOT SO NOTIFY THE ENGINEER, THE CONTRACTORS SHALL FULLY COMPLY WITHOUT CLAIM FOR EXTRA COSTS. REFER TO DRAWINGS FOR GOVERNING BUILDING CODES.

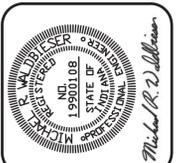
SECOND FLOOR NEW ELECTRICAL POWER PLAN
 SCALE: 3/16" = 1'-0"

GENERAL NOTES:

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- ALL WALLS INDICATED ON THE ARCHITECTURAL PLANS AS FIRE RATED SHALL BE PROPERLY FIRE CAULKED FOR ALL PENETRATIONS.

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DATE	REVISIONS	BY



WABASH VALLEY HEALTH CENTER, INC.
 1436 LOCUST STREET
 TERRE HAUTE, INDIANA 47807
 BUILDING ADDITIONS & RENOVATION

MICHAEL R. WALDBIESER
 ENGINEER & CONSULTING, INC.
 STRUCTURAL, MECHANICAL, ELECTRICAL & PLUMBING
 SYCAMORE BUILDING
 19 SOUTH 665 STREET, SUITE #84
 TERRE HAUTE, INDIANA 47807
 PHONE: (812) 232-6510

SCALE: 3/16" = 1'-0"
 DATE: 09-11-19
 DRAWN BY: MRW
 APPROVED BY: MRW

PROJECT: 18-20
 FILE: Elec #F
E3.0

NUMBERED NOTES:

- PROVIDE AND INSTALL NEW WALL MOUNTED OCCUPANCY SENSOR FOR CONTROL OF NEW LED LIGHTING. DIMMING CONTROL NOT REQUIRED.
- PROVIDE AND INSTALL NEW WALL MOUNTED COMPATIBLE DIMMER.



GENERAL MEP NOTE:
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LOWER LEVEL NEW ELECTRICAL LIGHTING PLAN
 SCALE: 3/16" = 1'-0"

- GENERAL NOTES:**
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 - ALL WALLS INDICATED ON THE ARCHITECTURAL PLANS AS FIRE RATED SHALL BE PROPERLY FIRE CALLED FOR ALL PENETRATIONS.
 - CONNECT ALL LIGHT FIXTURES TO EXISTING LIGHTING CIRCUITS AS REQUIRED.

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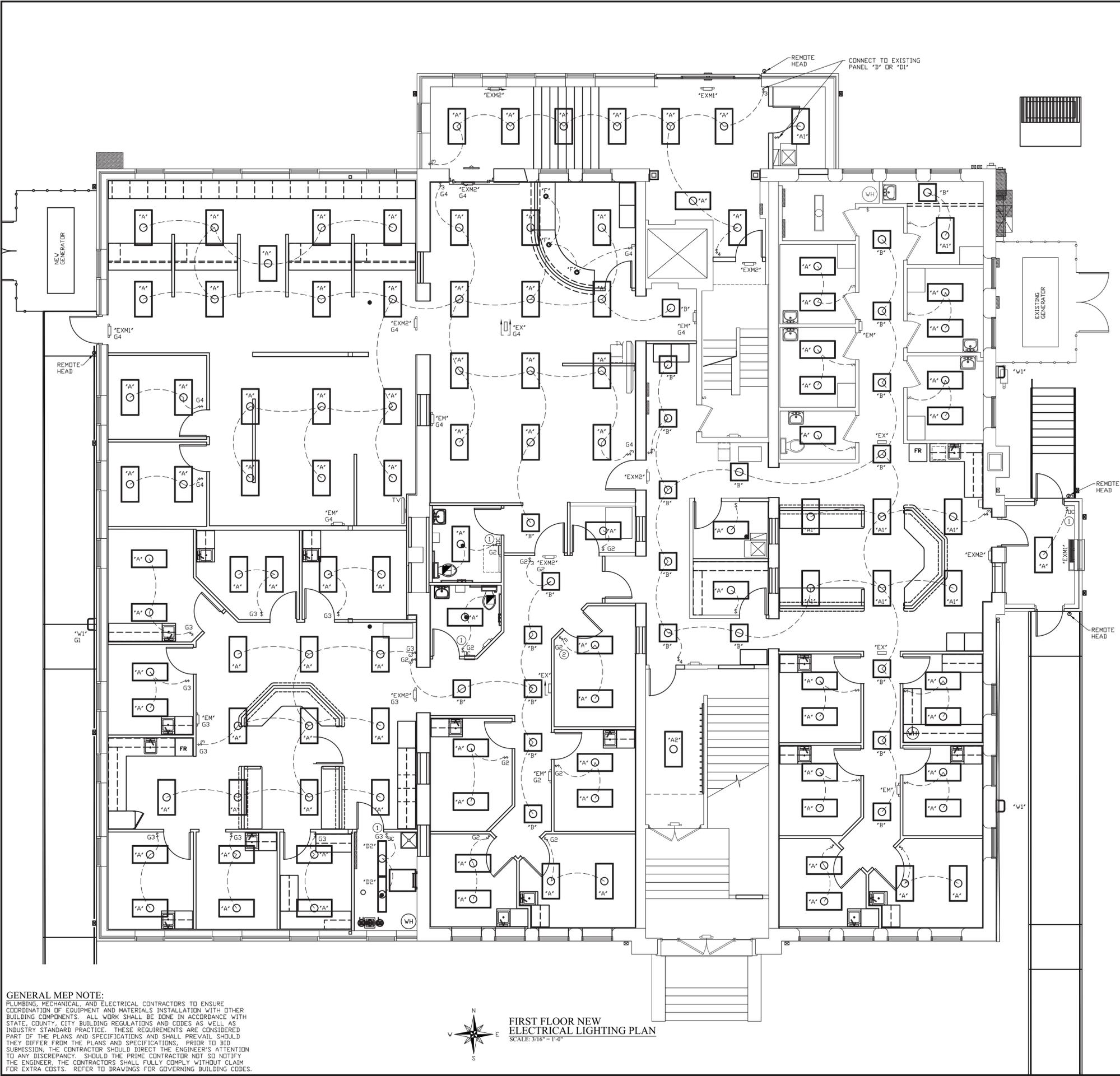


WABASH VALLEY HEALTH CENTER, INC.
 1436 LOCUST STREET
 TERRE HAUTE, INDIANA 47807
 BUILDING ADDITIONS & RENOVATION

MICHAEL R. WALDBIESER
 ENGINEER & CONSULTING, INC.
 19 SOUTH 66TH STREET, SUITE #4
 TERRE HAUTE, INDIANA 47807
 PHONE: (812) 232-0510

SCALE: 3/16" = 1'-0"
 DATE: 09-11-19
 DRAWN BY: MRW
 APPROVED BY: MRW

PROJECT: 18-20
 FILE: Elec #F
E3.1



- NUMBERED NOTES:**
1. PROVIDE AND INSTALL NEW WALL MOUNTED OCCUPANCY SENSOR FOR CONTROL OF NEW LED LIGHTING. DIMMING CONTROL NOT REQUIRED.
 2. PROVIDE AND INSTALL NEW WALL MOUNTED COMPATIBLE DIMMER.

GENERAL MEP NOTE:
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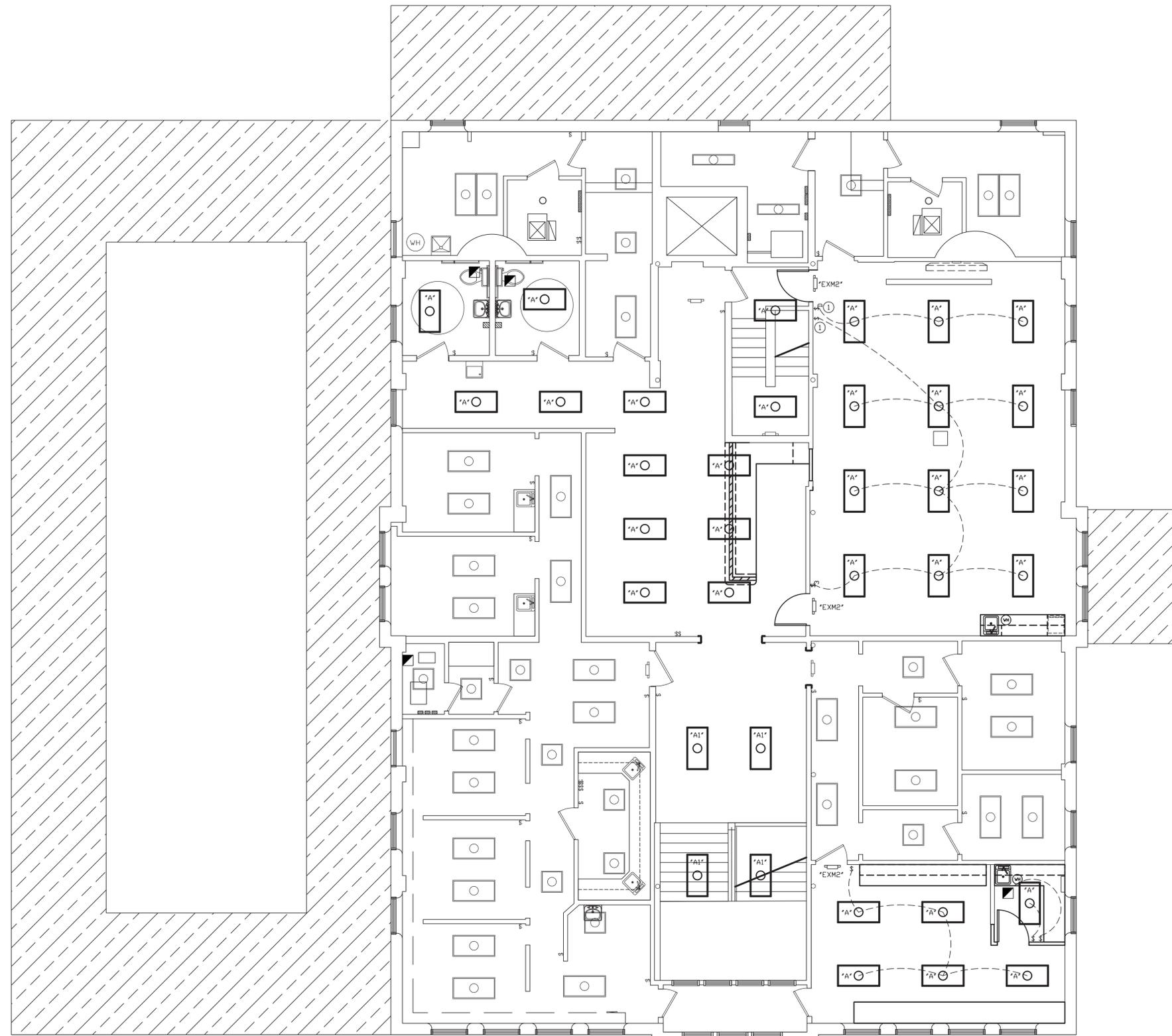


FIRST FLOOR NEW ELECTRICAL LIGHTING PLAN
 SCALE: 3/16" = 1'-0"

GENERAL NOTES:

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3. CONNECT ALL LIGHT FIXTURES TO EXISTING LIGHTING CIRCUITS AS REQUIRED.

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NUMBERED NOTES:

- ① PROVIDE AND INSTALL NEW WALL MOUNTED COMPATIBLE DIMMER.

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SECOND FLOOR NEW ELECTRICAL LIGHTING PLAN
 SCALE: 3/16" = 1'-0"

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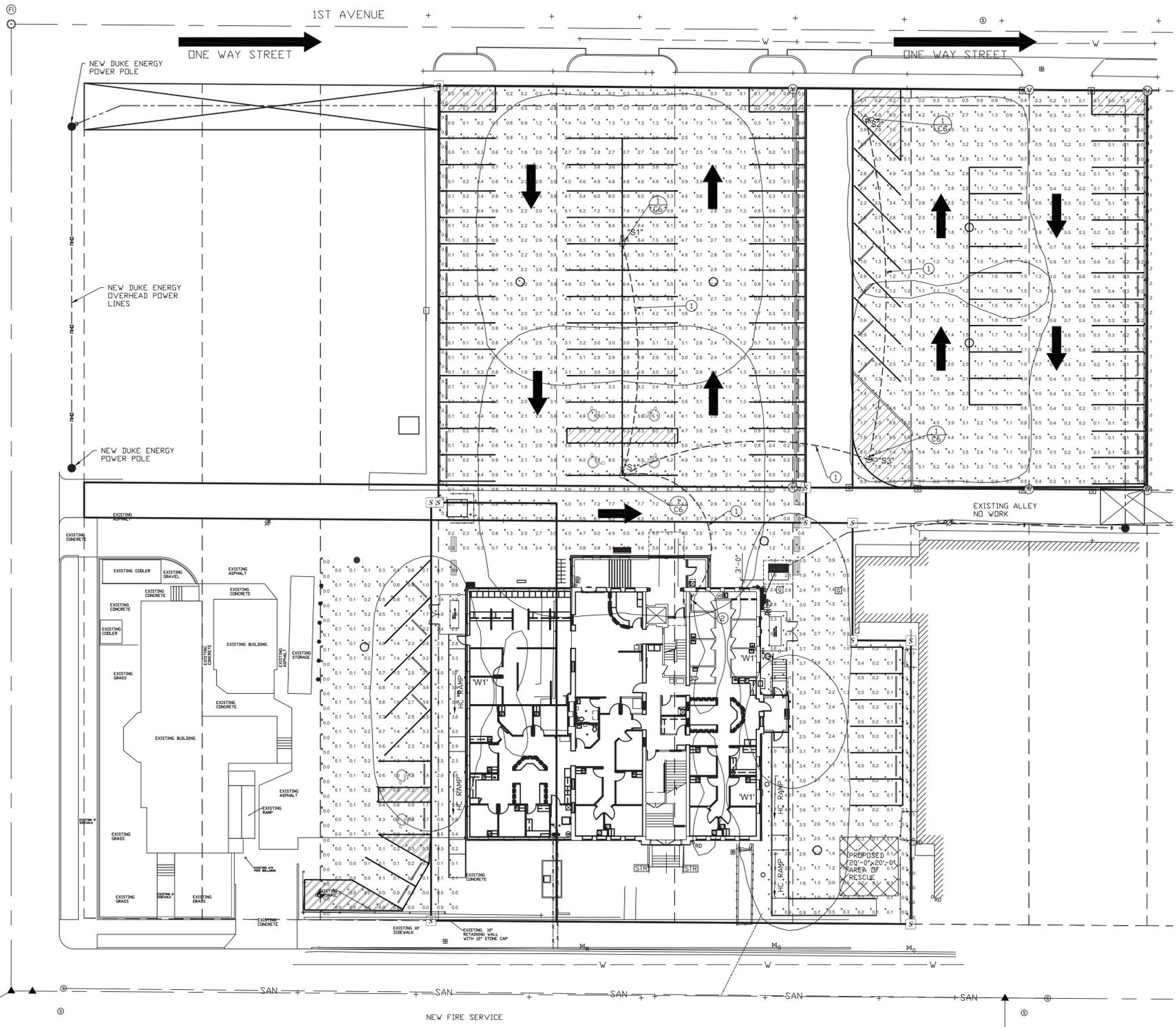


WABASH VALLEY HEALTH CENTER, INC.
 1436 LOCUST STREET
 TERRE HAUTE, INDIANA 47807
 BUILDING ADDITIONS & RENOVATION

MICHAEL R. WALDBIESER
 ENGINEER & CONSULTING, INC.
 STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING
 SYCAMORE BUILDING
 19 SOUTH 665 STREET, SUITE #4
 TERRE HAUTE, INDIANA 47807
 PHONE: (812) 232-6510

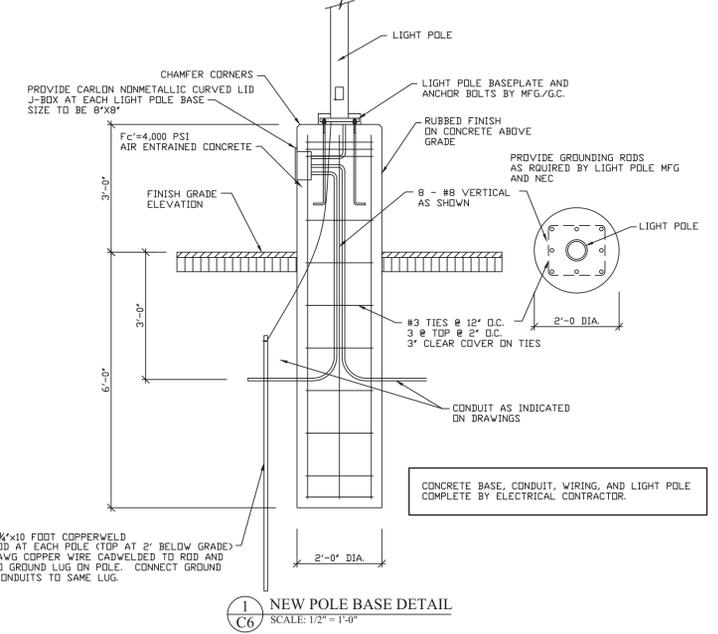
SCALE: 3/16" = 1'-0"
 DATE: 09-11-19
 DRAWN BY: MRW
 APPROVED BY: MRW

PROJECT: 18-20
 FILE: Elec #F
E3.2



Symbol	Label	Quantity	Manufacturer	Catalog Number	Lumens Per Lamp	Light Loss Factor	Wattage
□	W1	3	Lithonia Lighting	DSXW2 LED 20C 1000 40K T2S MVOLT	7874	0.92	73
□	S1	2	Lithonia Lighting	DSX1 LED P9 40K T8S MVOLT - 20' POLE	28706	0.92	241
□	S2	1	Lithonia Lighting	DSX1 LED P6 40K LCCO MVOLT - 20' POLE	11614	0.92	163
□	S3	1	Lithonia Lighting	DSX1 LED P6 40K RCCO MVOLT - 20' POLE	11614	0.92	163

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Lighting Area 1_Grade	+	1.5 fc	7.9 fc	0.0 fc	N/A	N/A
Lighting Area 2_Grade	+	2.5 fc	8.5 fc	0.0 fc	N/A	N/A
Lighting Area 3_Grade	+	1.5 fc	4.1 fc	0.0 fc	N/A	N/A
Lighting Area 4_Grade	+	0.9 fc	4.1 fc	0.0 fc	N/A	N/A
PL-Northeast_Grade	X	0.1 fc	0.2 fc	0.0 fc	N/A	N/A
PL-Northwest_Grade	X	0.0 fc	0.1 fc	0.0 fc	N/A	N/A
PL-Southwest_Grade	X	0.0 fc	0.1 fc	0.0 fc	N/A	N/A
PL-Southwest_Grade	X	0.1 fc	0.1 fc	0.0 fc	N/A	N/A



- NUMBERED NOTES:**
- NEW 3/4" CONDUIT WITH 2 - #12 CU THHN WIRES AND 1 - #12 CU GROUND
 - CONNECT TO NEW 2P BREAKER IN EXISTING PANEL. LIGHTS SHALL BE CONNECTED TO 208 VOLT 1 PHASE.



811
Know what's below.
Call before you dig.

CAUTION
LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, VALVES, AND MARKS MADE UPON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

CALL 811 OR 1-800-382-5544
48 HOURS BEFORE DIGGING

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DATE	REVISIONS	BY



WABASH VALLEY HEALTH CENTER, INC.
1436 LOCUST STREET
TERRE HAUTE, INDIANA 47807
BUILDING ADDITIONS & RENOVATION

MICHAEL R. WALDBIESER
ENGINEER & CONSULTING, INC.
STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING

SYCAMORE BUILDING
19 SOUTH 6th STREET, SUITE 804
TERRE HAUTE, INDIANA 47807

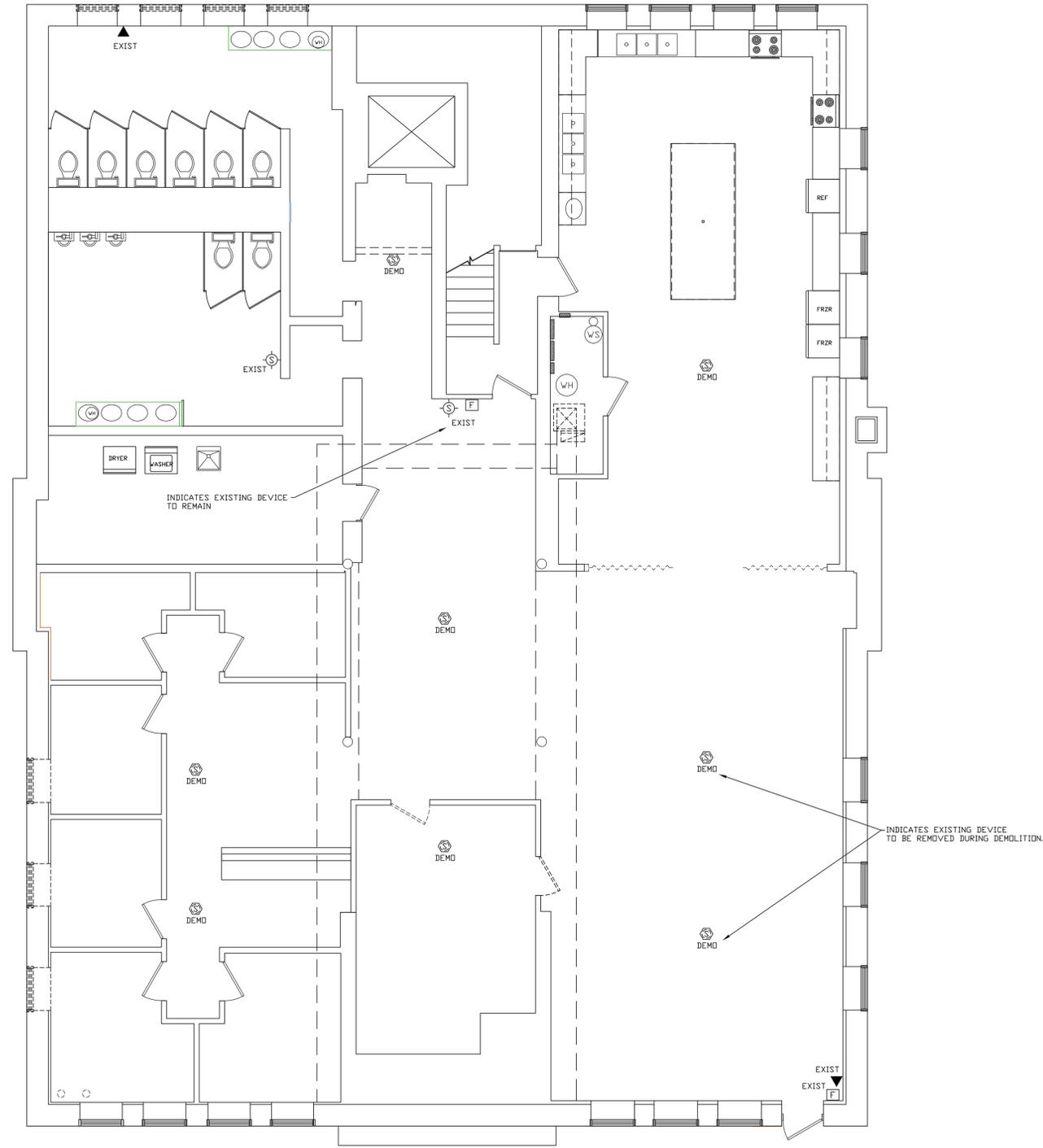
PHONE: (812) 232-6510

SCALE: 1" = 20'-0"
DATE: 09-11-19
DRAWN BY: MRW
APPROVED BY: MRW

PROJECT: 18-20
FILE: NSite #F
E3.3

ALARM SYSTEM DEVICE SCHEDULE	
F	PULL STATION
P	POST INDICATING VALVE - AS REQUIRED FOR SPRINKLER SYSTEM
FS	FLOW SWITCH - AS REQUIRED FOR SPRINKLER SYSTEM
TS	TAMPER SWITCH - AS REQUIRED FOR SPRINKLER SYSTEM
AR	3 ADDRESSABLE RELAYS FOR ELEVATOR
S	SMOKE DETECTOR
S _s	SMOKE DETECTOR WITH SOUNDER
S _c	SMOKE DETECTOR WITH CO2 SENSOR
H	HEAT DETECTOR
D	DUCT DETECTOR - WITH SAMPLING TUBE
SL	STROBE LIGHT
SLH	HORN/STROBE LIGHT

PLAN NOTE:
 1. PROVIDE AND INSTALL ALL WIRING AS REQUIRED FOR COMPLETE AND OPERATING FIRE ALARM SYSTEM.
 2. ALL NEW DEVICES SHALL BE MATCH EXISTING AND BE COMPATIBLE WITH EXISTING SYSTEM. FIELD VERIFY AS REQUIRED AND COORDINATE WITH OWNER. MAY USE EXISTING DEVICES WHICH ARE REMOVED DURING DEMOLITION IF IN GOOD OPERATING ORDER. MAY ALSO REUSE EXISTING WIRING IF IN GOOD OPERATING ORDER.



GENERAL MEP NOTE:
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**LOWER LEVEL DEMOLITION
 FIRE ALARM PLAN**
 SCALE: 3/16" = 1'-0"

GENERAL NOTES:
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E4.0

ALARM SYSTEM DEVICE SCHEDULE	
F	PULL STATION
P	POST INDICATING VALVE - AS REQUIRED FOR SPRINKLER SYSTEM
FS	FLOW SWITCH - AS REQUIRED FOR SPRINKLER SYSTEM.
TS	TAMPER SWITCH - AS REQUIRED FOR SPRINKLER SYSTEM.
AR	3 ADDRESSABLE RELAYS FOR ELEVATOR
S	SMOKE DETECTOR
S _s	SMOKE DETECTOR WITH SOUNDER
S _c	SMOKE DETECTOR WITH CO2 SENSOR
H	HEAT DETECTOR
D	DUCT DETECTOR - WITH SAMPLING TUBE
SL	STROBE LIGHT
SLH	HORN/STROBE LIGHT

PLAN NOTE:
 1. PROVIDE AND INSTALL ALL WIRING AS REQUIRED FOR COMPLETE AND OPERATING FIRE ALARM SYSTEM.
 2. ALL NEW DEVICES SHALL BE MATCH EXISTING AND BE COMPATIBLE WITH EXISTING SYSTEM. FIELD VERIFY AS REQUIRED AND COORDINATE WITH OWNER. MAY USE EXISTING DEVICES WHICH ARE REMOVED DURING DEMOLITION IF IN GOOD OPERATING ORDER. MAY ALSO REUSE EXISTING WIRING IF IN GOOD OPERATING ORDER.

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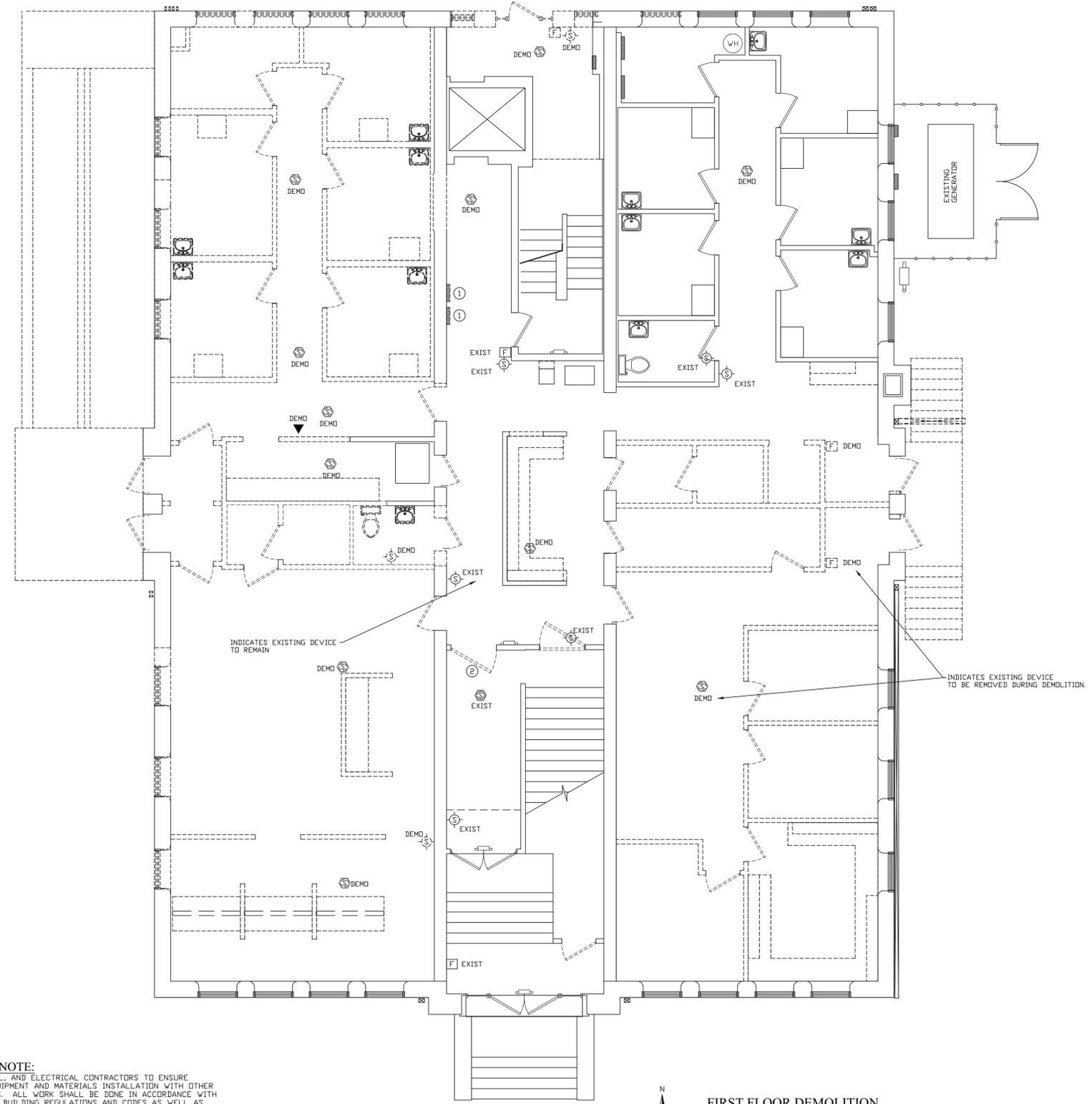
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PROJECT: 18-20
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E4.1

NUMBERED NOTES:
 ① LOCATION OF THE EXISTING FIRE ALARM PANELS. BOTH PANELS WILL NEED TO BE REMOVED FROM THE WALL FOR THE REMOVAL OF THE PLASTER BEHIND WHICH CONTAINS LEAD. THEN A NEW WALL CONSISTING OF METAL STUDS AND PAINTED GYPSUM DRYWALL WILL BE INSTALLED. THEN THE EXISTING PANELS WILL RE-INSTALLED AT THE SAME LOCATION.
 IT IS THE FINAL RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO DETERMINE IF THE EXISTING FIRE ALARM PANELS CAN ACCEPT THE ADDITIONAL DEVICES SHOWN ON THE DRAWINGS.
 IF REQUIRED, ADD TO THE EXISTING FIRE ALARM PANELS OR PROVIDE NEW.
 ② REMOVE EXISTING HOLD OPEN FROM EXISTING DOOR. WILL NOT BE RE-INSTALLED ON NEW DOOR.

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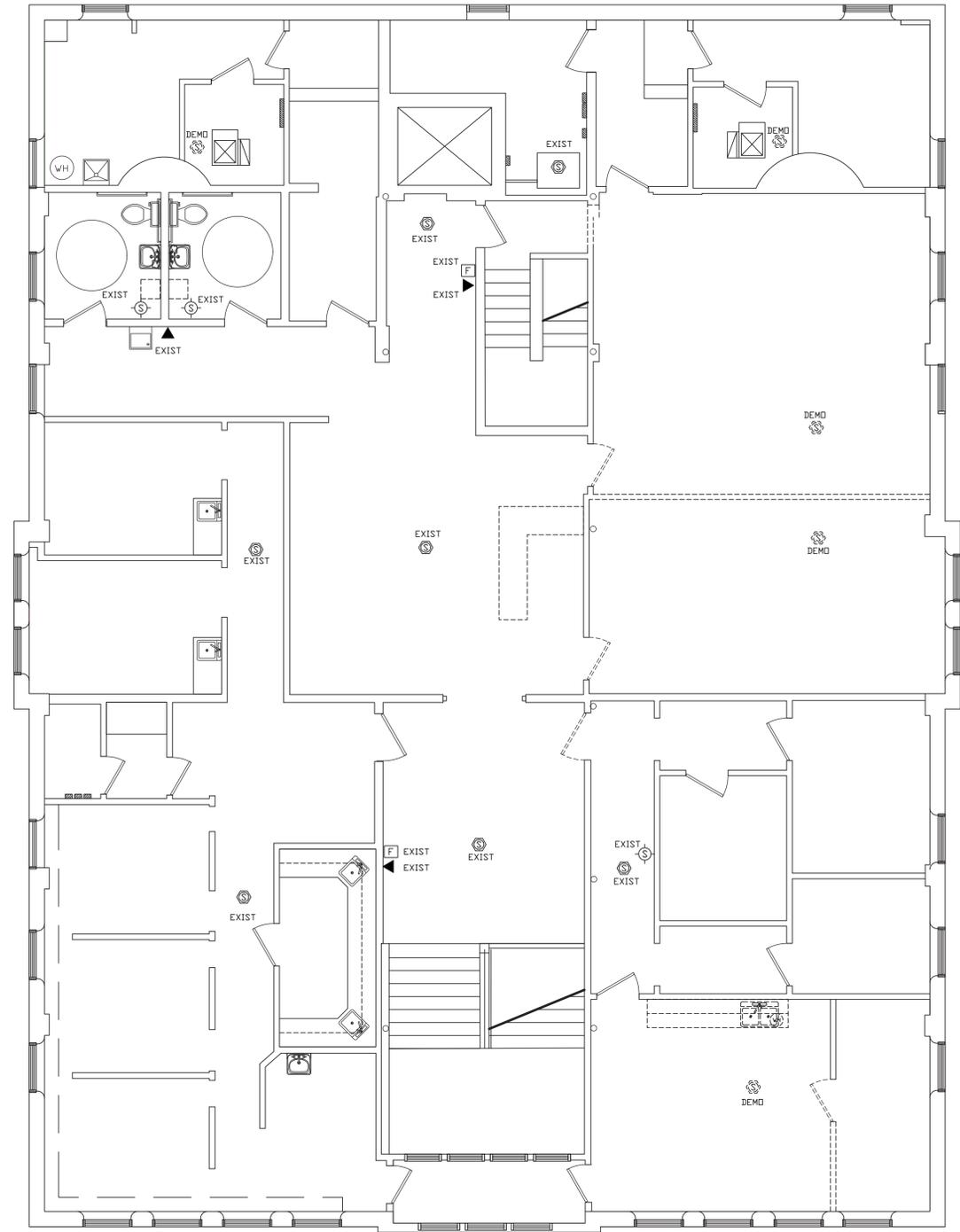


GENERAL MEP NOTE:
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**FIRST FLOOR DEMOLITION
 FIRE ALARM PLAN**
 SCALE: 3/16" = 1'-0"

ALARM SYSTEM DEVICE SCHEDULE	
F	PULL STATION
P	POST INDICATING VALVE - AS REQUIRED FOR SPRINKLER SYSTEM
FS	FLOW SWITCH - AS REQUIRED FOR SPRINKLER SYSTEM.
TS	TAMPER SWITCH - AS REQUIRED FOR SPRINKLER SYSTEM.
AR	3 ADDRESSABLE RELAYS FOR ELEVATOR
S	SMOKE DETECTOR
S _S	SMOKE DETECTOR WITH SOUNDER
S _C	SMOKE DETECTOR WITH CO2 SENSOR
H	HEAT DETECTOR
D	DUCT DETECTOR - WITH SAMPLING TUBE
SL	STROBE LIGHT
SLH	HORN/STROBE LIGHT

PLAN NOTE:
 1. PROVIDE AND INSTALL ALL WIRING AS REQUIRED FOR COMPLETE AND OPERATING FIRE ALARM SYSTEM.
 2. ALL NEW DEVICES SHALL BE MATCH EXISTING AND BE COMPATIBLE WITH EXISTING SYSTEM. FIELD VERIFY AS REQUIRED AND COORDINATE WITH OWNER. MAY USE EXISTING DEVICES WHICH ARE REMOVED DURING DEMOLITION IF IN GOOD OPERATING ORDER. MAY ALSO REUSE EXISTING WIRING IF IN GOOD OPERATING ORDER.



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**SECOND FLOOR DEMOLITION
 FIRE ALARM PLAN**
 SCALE: 3/16" = 1'-0"

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DATE	REVISIONS	BY



WABASH VALLEY HEALTH CENTER, INC.
 1436 LOCUST STREET
 TERRE HAUTE, INDIANA 47807
 BUILDING ADDITIONS & RENOVATION

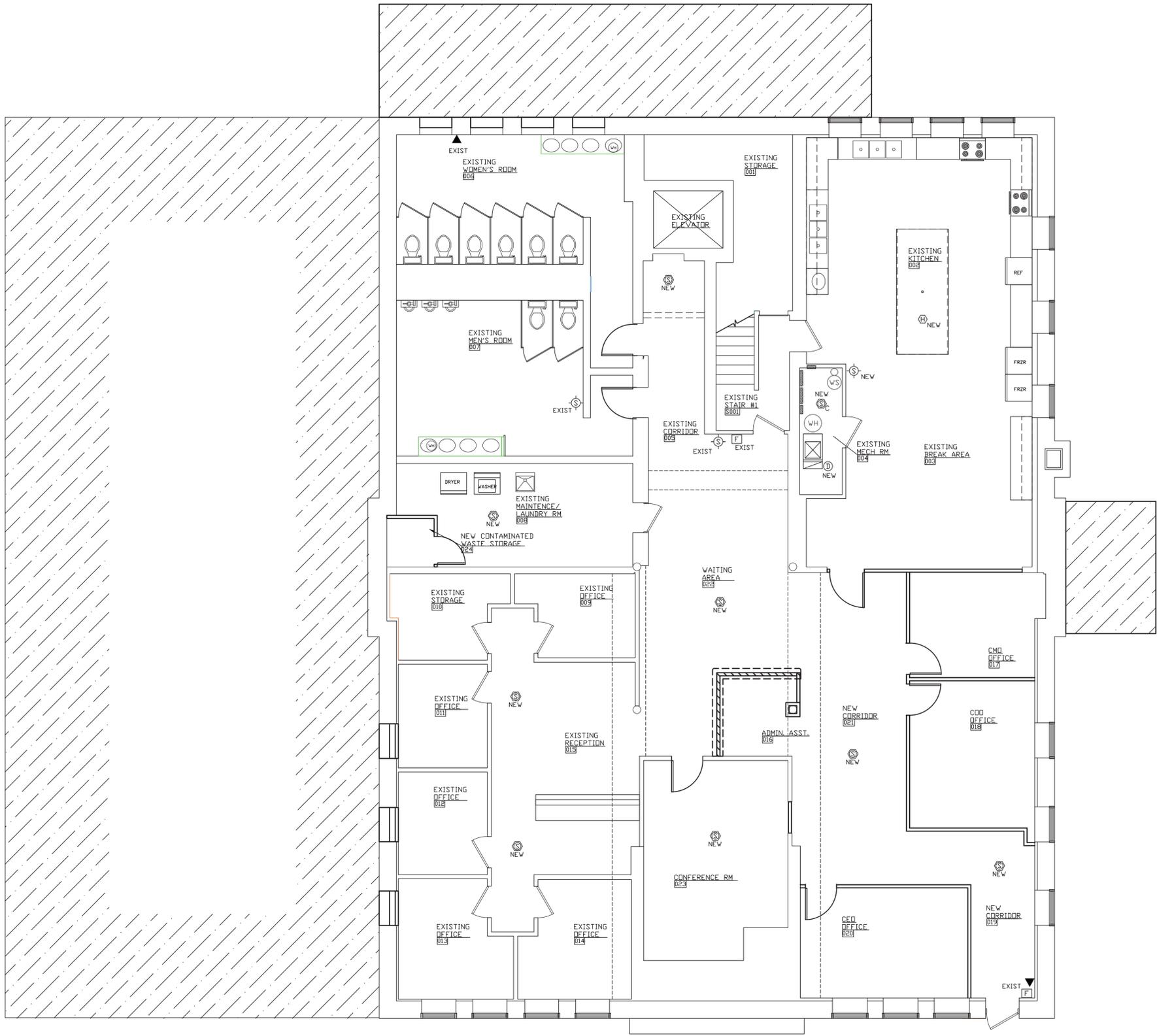
MICHAEL R. WALDBIESER
 ENGINEER & CONSULTING, INC.
STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING
 SYCAMORE BUILDING
 19 SOUTH 665 STREET, SUITE #4
 TERRE HAUTE, INDIANA 47807
 PHONE: (812) 232-6510

SCALE: 3/16" = 1'-0"
 DATE: 09-11-19
 DRAWN BY: MRW
 APPROVED BY: MRW

PROJECT: 18-20
 FILE: Elec #F
E4.2

ALARM SYSTEM DEVICE SCHEDULE	
F	PULL STATION
P	POST INDICATING VALVE - AS REQUIRED FOR SPRINKLER SYSTEM
FS	FLOW SWITCH - AS REQUIRED FOR SPRINKLER SYSTEM.
TS	TAMPER SWITCH - AS REQUIRED FOR SPRINKLER SYSTEM.
AR	3 ADDRESSABLE RELAYS FOR ELEVATOR
S	SMOKE DETECTOR
S _s	SMOKE DETECTOR WITH SOUNDER
S _c	SMOKE DETECTOR WITH CO2 SENSOR
H	HEAT DETECTOR
D	DUCT DETECTOR - WITH SAMPLING TUBE
SL	STROBE LIGHT
SLH	HORN/STROBE LIGHT

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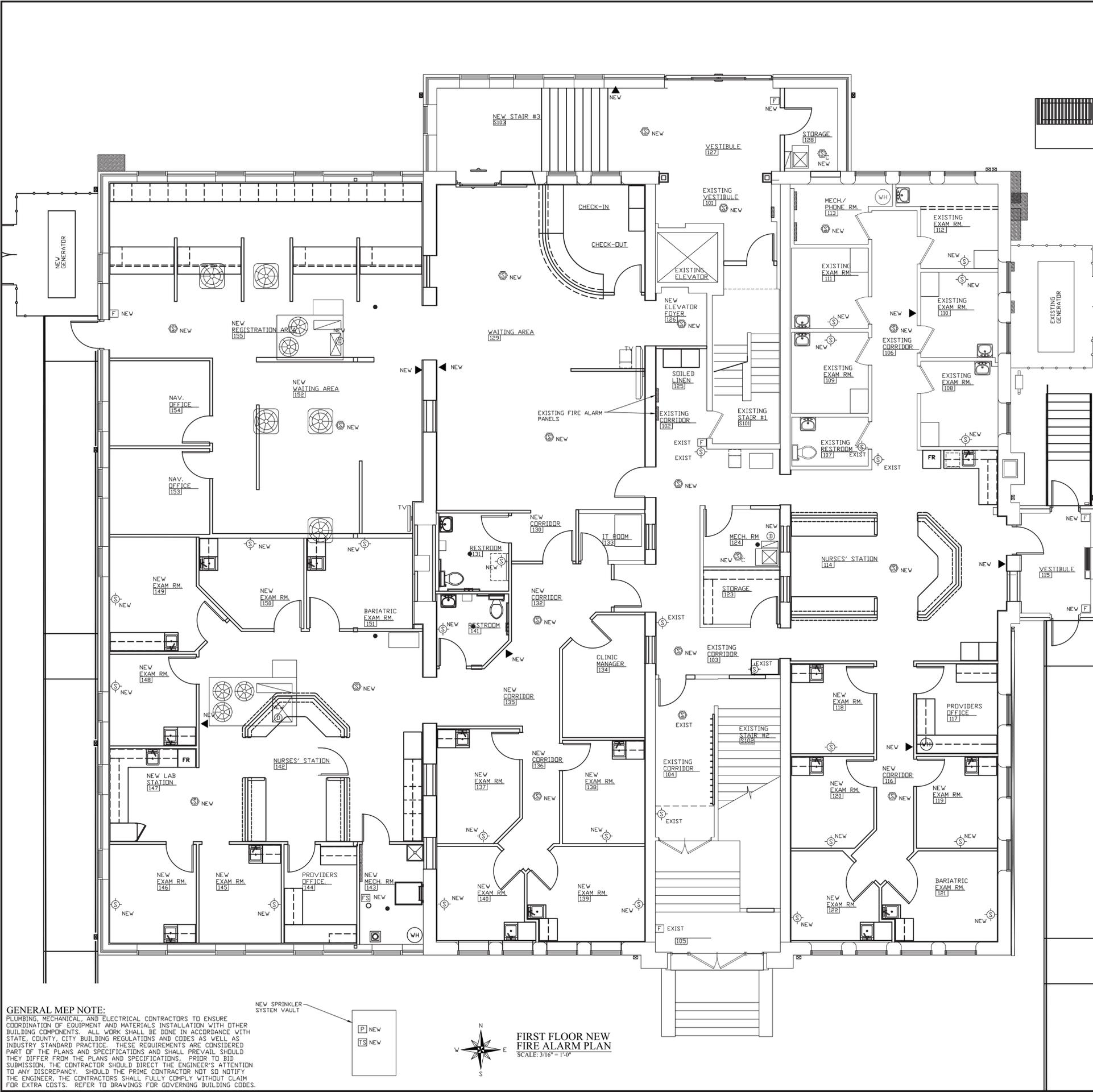


WABASH VALLEY HEALTH CENTER, INC.
 1436 LOCUST STREET
 TERRE HAUTE, INDIANA 47807
 BUILDING ADDITIONS & RENOVATION

MICHAEL R. WALDBIESER
 ENGINEER & CONSULTING, INC.
 19 SOUTH 66TH STREET, SUITE #4
 TERRE HAUTE, INDIANA 47807
 PHONE: (812) 232-0510

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 DATE: 09-11-19
 DRAWN BY: MRW
 APPROVED BY: MRW

PROJECT: 18-20
 FILE: Elec #F
E4.3



ALARM SYSTEM DEVICE SCHEDULE	
F	PULL STATION
P	POST INDICATING VALVE - AS REQUIRED FOR SPRINKLER SYSTEM
FS	FLOW SWITCH - AS REQUIRED FOR SPRINKLER SYSTEM
TS	TAMPER SWITCH - AS REQUIRED FOR SPRINKLER SYSTEM
AR	3 ADDRESSABLE RELAYS FOR ELEVATOR
S	SMOKE DETECTOR
S+S	SMOKE DETECTOR WITH SOUNDER
S+C	SMOKE DETECTOR WITH CO2 SENSOR
H	HEAT DETECTOR
D	DUCT DETECTOR - WITH SAMPLING TUBE
SL	STROBE LIGHT
H/SL	HORN/STROBE LIGHT

PLAN NOTE:
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 1436 LOCUST STREET
 TERRE HAUTE, INDIANA 47807
 BUILDING ADDITIONS & RENOVATION

MICHAEL R. WALDBIESER
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 PHONE: (812) 232-0510

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FIRST FLOOR NEW FIRE ALARM PLAN
 SCALE: 3/16" = 1'-0"

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 DRAWN BY: MRW
 APPROVED BY: MRW

PROJECT: 18-20
 FILE: Elec #F
E4.4

ALARM SYSTEM DEVICE SCHEDULE	
F	PULL STATION
P	POST INDICATING VALVE - AS REQUIRED FOR SPRINKLER SYSTEM
FS	FLOW SWITCH - AS REQUIRED FOR SPRINKLER SYSTEM
TS	TAMPER SWITCH - AS REQUIRED FOR SPRINKLER SYSTEM
AR	3 ADDRESSABLE RELAYS FOR ELEVATOR
S	SMOKE DETECTOR
S _s	SMOKE DETECTOR WITH SOUNDER
S _c	SMOKE DETECTOR WITH CO2 SENSOR
H	HEAT DETECTOR
D	DUCT DETECTOR - WITH SAMPLING TUBE
SL	STROBE LIGHT
SLH	HORN/STROBE LIGHT

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DATE	REVISIONS	BY



WABASH VALLEY HEALTH CENTER, INC.
 1436 LOCUST STREET
 TERRE HAUTE, INDIANA 47807
 BUILDING ADDITIONS & RENOVATION

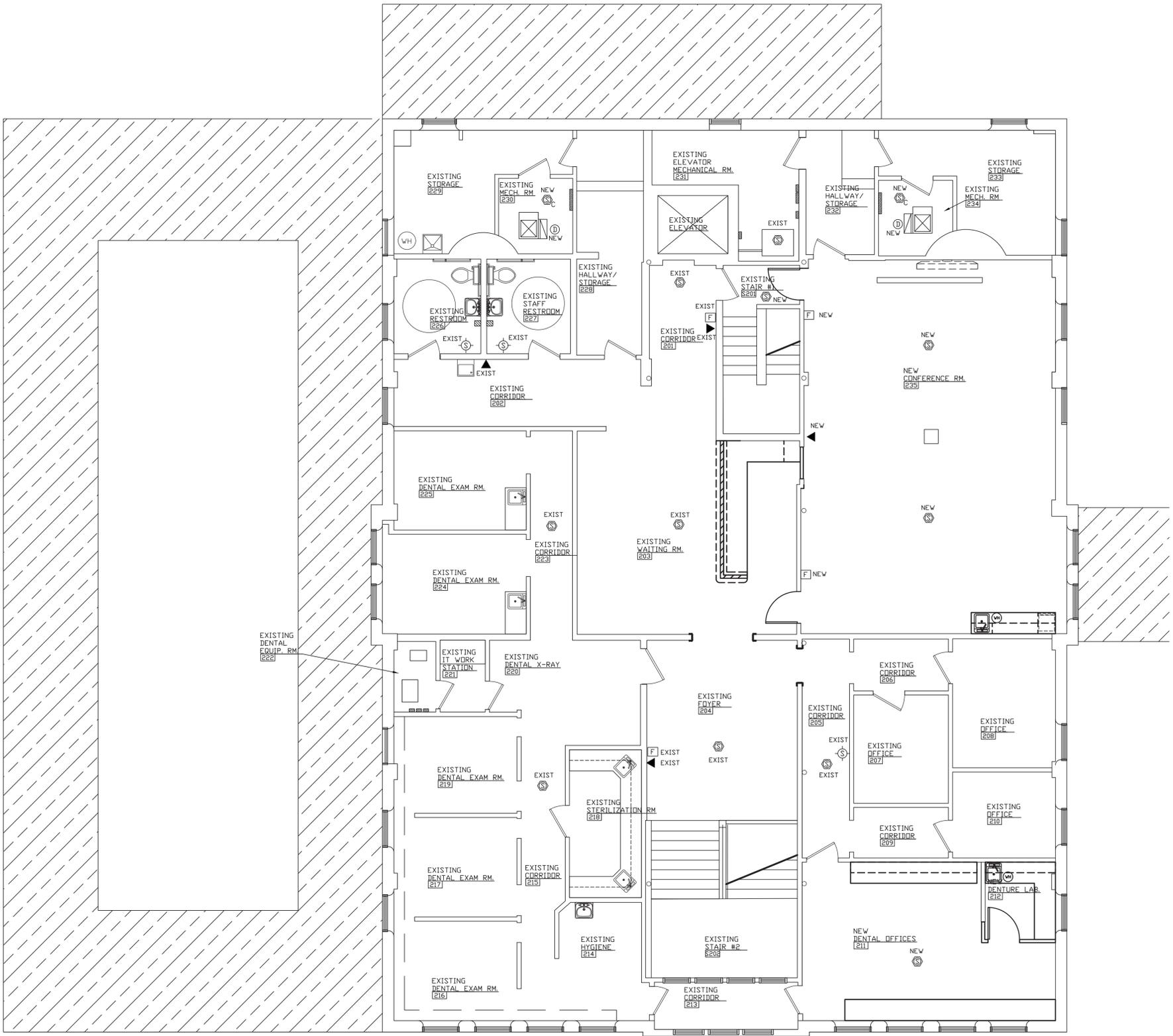
MICHAEL R. WALDBIESER
 ENGINEER & CONSULTING, INC.
 19 SOUTH 66TH STREET, SUITE #4
 TERRE HAUTE, INDIANA 47807
 PHONE: (812) 232-0510

SCALE: 3/16" = 1'-0"
 DATE: 09-11-19
 DRAWN BY: MRW
 APPROVED BY: MRW

PROJECT: 18-20
 FILE: Elec #F
E4.5

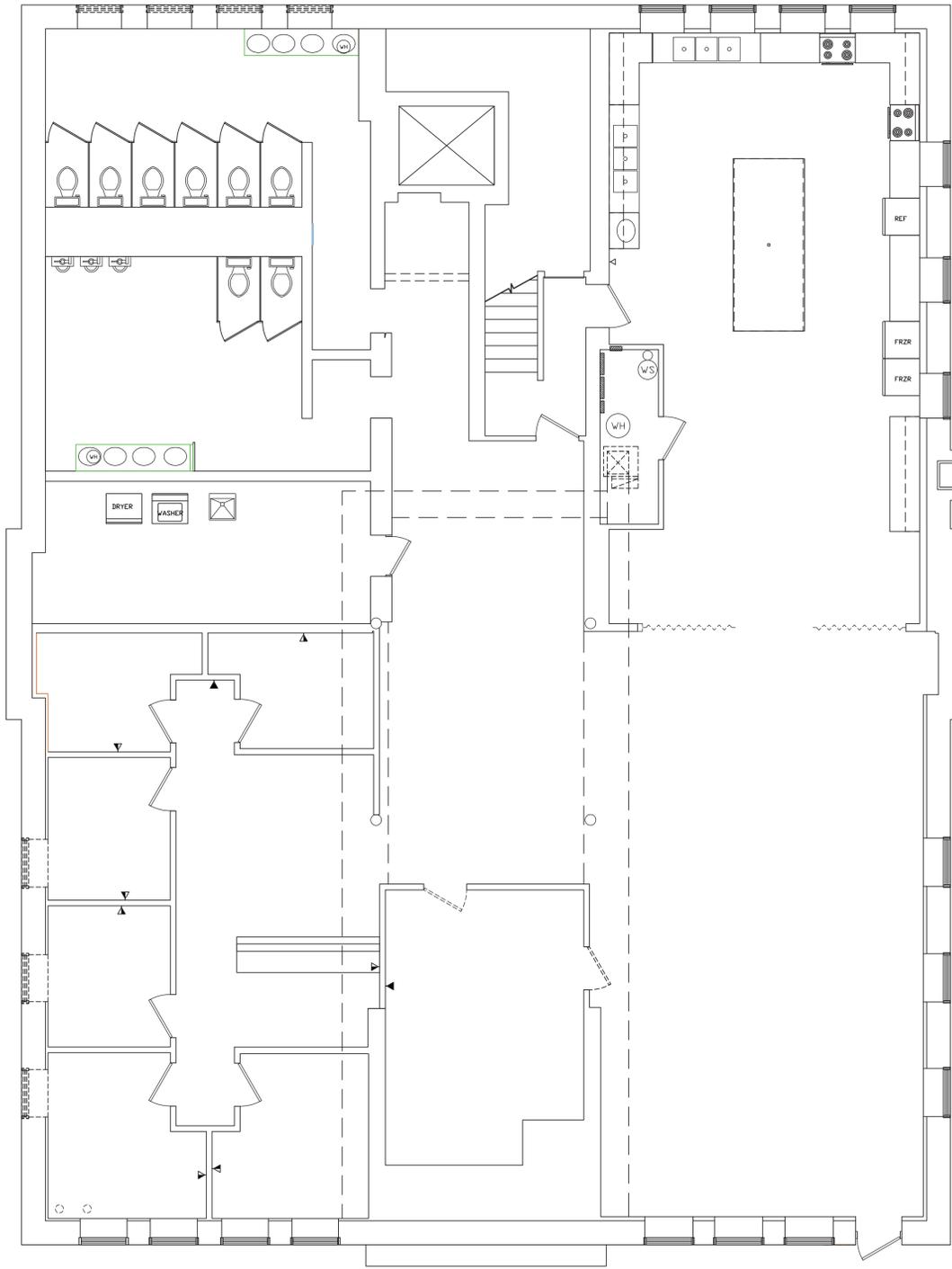
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SECOND FLOOR NEW FIRE ALARM PLAN
 SCALE: 3/16" = 1'-0"



DATA / TELECOM SCHEDULE	
▼ _D	EXISTING DATA DROP TO BE REMOVED COMPLETE
▼ _D	EXISTING TELEPHONE DROP TO BE REMOVED COMPLETE
▼ _D	EXISTING COMBINATION DATA/TELEPHONE DROP TO BE REMOVED COMPLETE
▼	EXISTING DATA DROP TO REMAIN
▼	EXISTING TELEPHONE DROP TO REMAIN
▼	EXISTING COMBINATION DATA / TELEPHONE DROP TO REMAIN

DATE	REVISIONS	BY



WABASH VALLEY HEALTH CENTER, INC.
 1436 LOCUST STREET
 TERRE HAUTE, INDIANA 47807
 BUILDING ADDITIONS & RENOVATION

MICHAEL R. WALDBIESER
 ENGINEER & CONSULTING, INC.
 STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING
 SYCAMORE BUILDING
 19 SOUTH 66TH STREET, SUITE #4
 TERRE HAUTE, INDIANA 47807
 PHONE: (812) 232-6510

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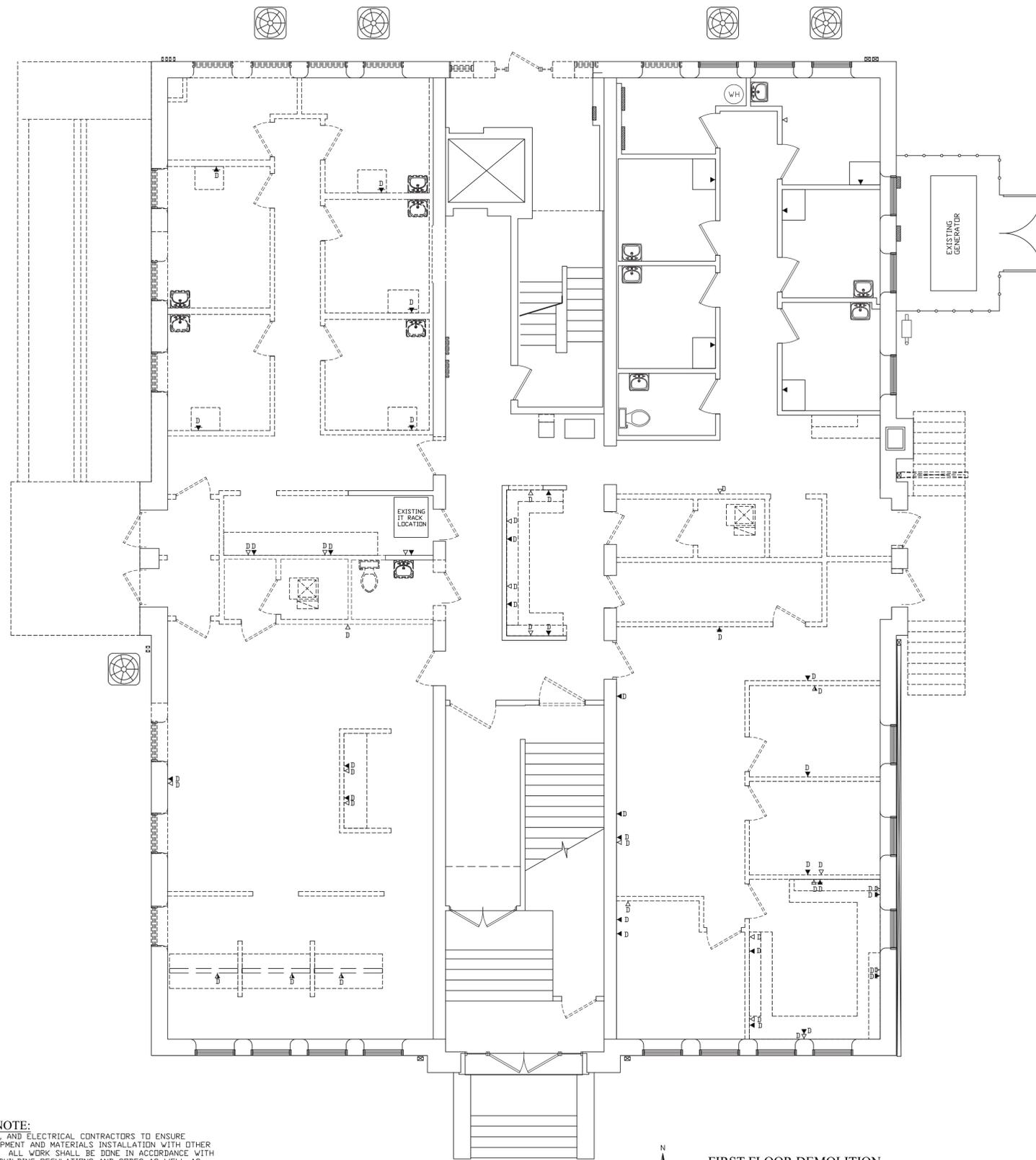
LOWER LEVEL DEMOLITION DATA/COMMUNICATION PLAN
 SCALE: 3/16" = 1'-0"

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SCALE: 3/16" = 1'-0"
 DATE: 09-11-19
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 APPROVED BY: MRW

PROJECT: 18-20
 FILE: Elec #F
E5.0



DATA / TELECOM SCHEDULE	
▽ _D	EXISTING DATA DROP TO BE REMOVED COMPLETE
▽ _D	EXISTING TELEPHONE DROP TO BE REMOVED COMPLETE
▽ _D	EXISTING COMBINATION DATA/TELEPHONE DROP TO BE REMOVED COMPLETE
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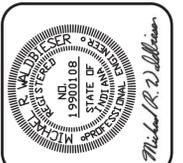


**FIRST FLOOR DEMOLITION
 DATA / COMMUNICATION PLAN**
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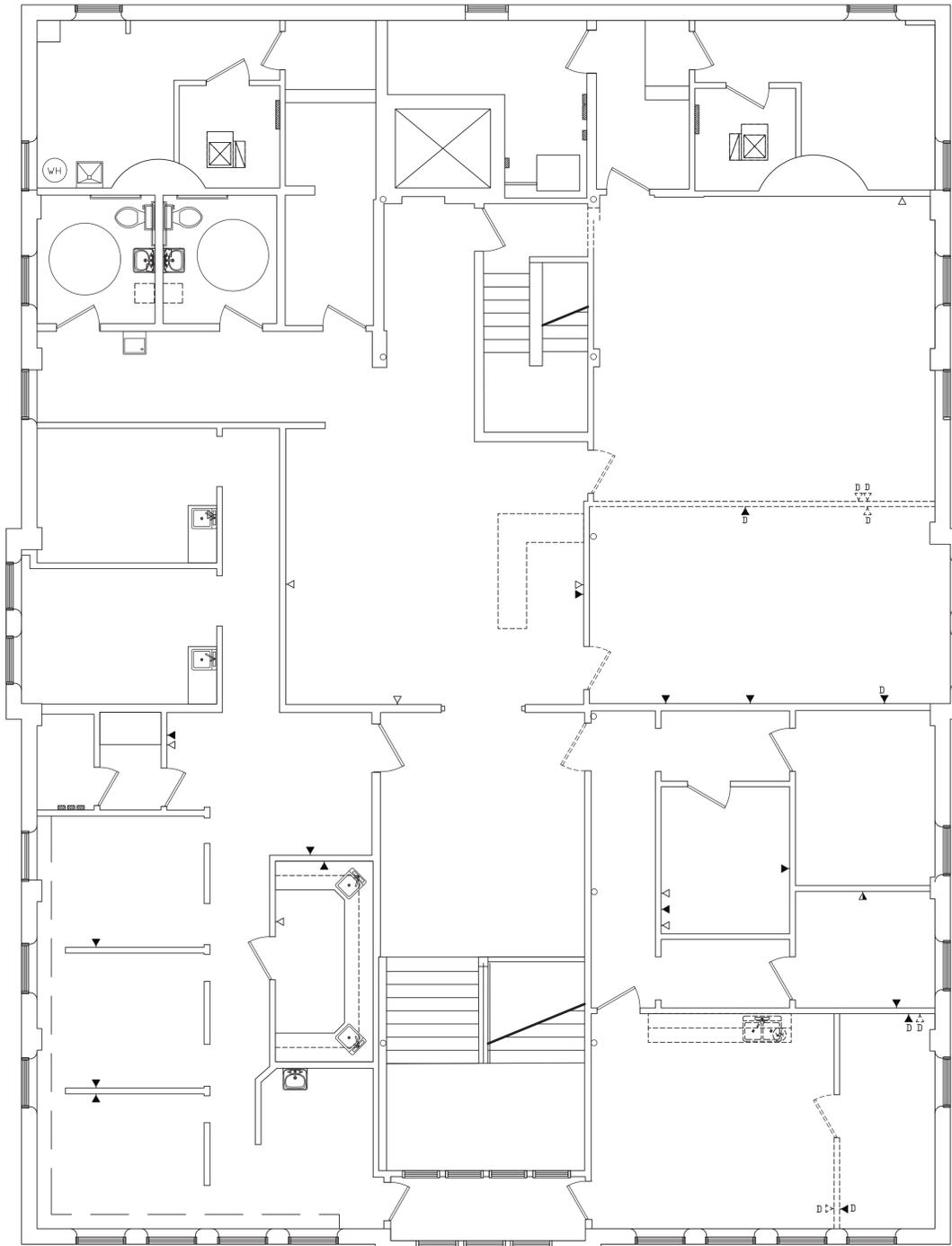


WABASH VALLEY HEALTH CENTER, INC.
 1436 LOCUST STREET
 TERRE HAUTE, INDIANA 47807
 BUILDING ADDITIONS & RENOVATION

MICHAEL R. WALDBIESER
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STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING
 SYCAMORE BUILDING
 19 SOUTH 665 STREET, SUITE #4
 TERRE HAUTE, INDIANA 47807
 PHONE: (812) 232-6510

SCALE: 3/16" = 1'-0"
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 APPROVED BY: MRW

PROJECT: 18-20
 FILE: Elec #F
E5.1



DATA / TELECOM SCHEDULE	
▼ _D	EXISTING DATA DROP TO BE REMOVED COMPLETE
▼ _T	EXISTING TELEPHONE DROP TO BE REMOVED COMPLETE
▼ _D	EXISTING COMBINATION DATA/TELEPHONE DROP TO BE REMOVED COMPLETE
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**SECOND FLOOR DEMOLITION
 DATA / COMMUNICATION PLAN**
 SCALE: 3/16" = 1'-0"

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 TERRE HAUTE, INDIANA 47807
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MICHAEL R. WALDBIESER
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 SYCAMORE BUILDING
 19 SOUTH 665 STREET, SUITE #84
 TERRE HAUTE, INDIANA 47807
 PHONE: (812) 232-6510

SCALE: 3/16" = 1'-0"
 DATE: 09-11-19
 DRAWN BY: MRW
 APPROVED BY: MRW

PROJECT: 18-20
 FILE: Elec #F
E5.2

DATE	REVISIONS	BY

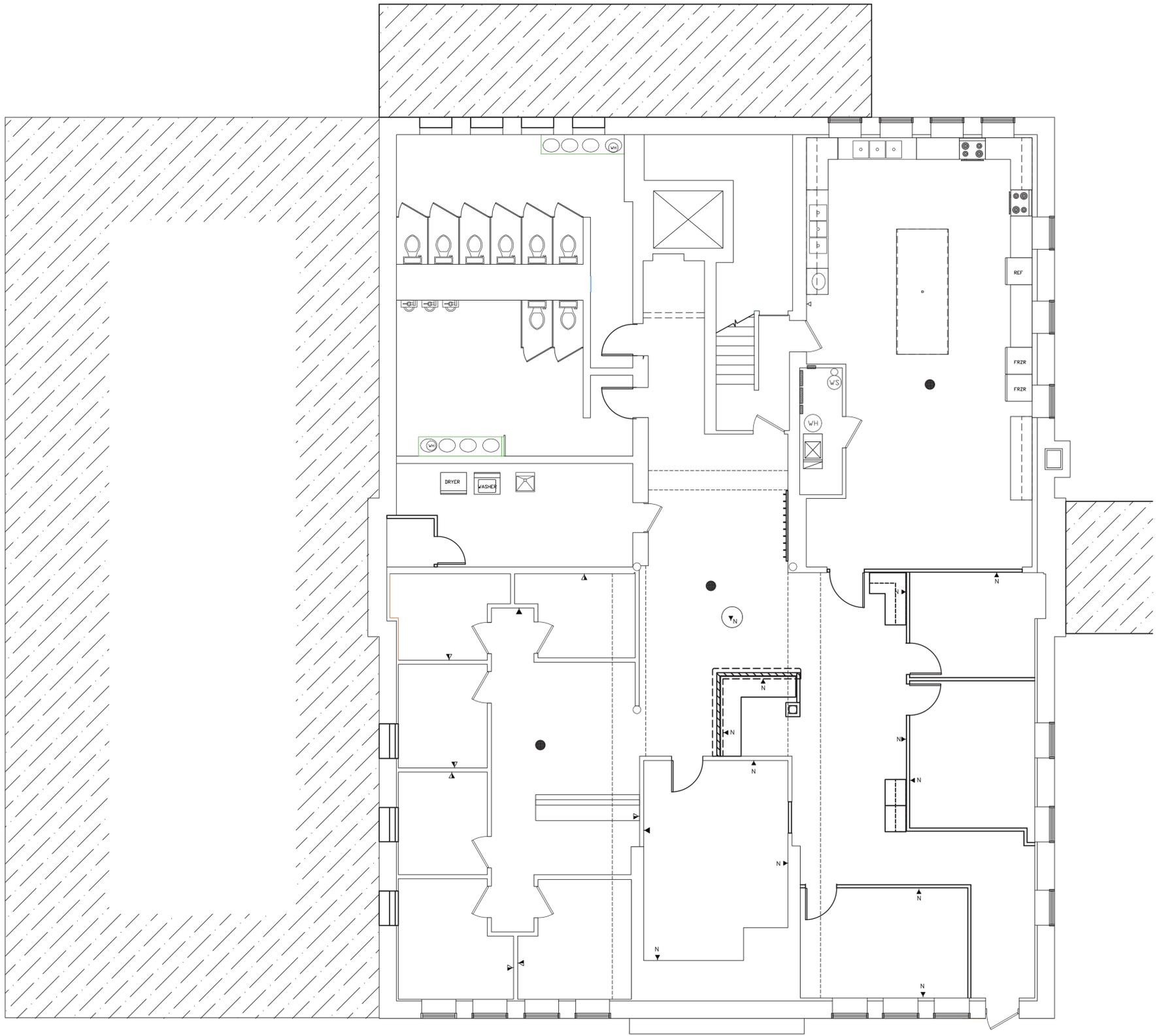


WABASH VALLEY HEALTH CENTER, INC.
 1436 LOCUST STREET
 TERRE HAUTE, INDIANA 47807
 BUILDING ADDITIONS & RENOVATION

MICHAEL R. WALDBIESER
 ENGINEER & CONSULTING, INC.
 STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING
 SYCAMORE BUILDING
 19 SOUTH 66th STREET, SUITE #84
 TERRE HAUTE, INDIANA 47807
 PHONE: (812) 232-0510

SCALE: 3/16" = 1'-0"
 DATE: 09-11-19
 DRAWN BY: MRW
 APPROVED BY: MRW

PROJECT: 18-20
 FILE: Elec #F
E5.3



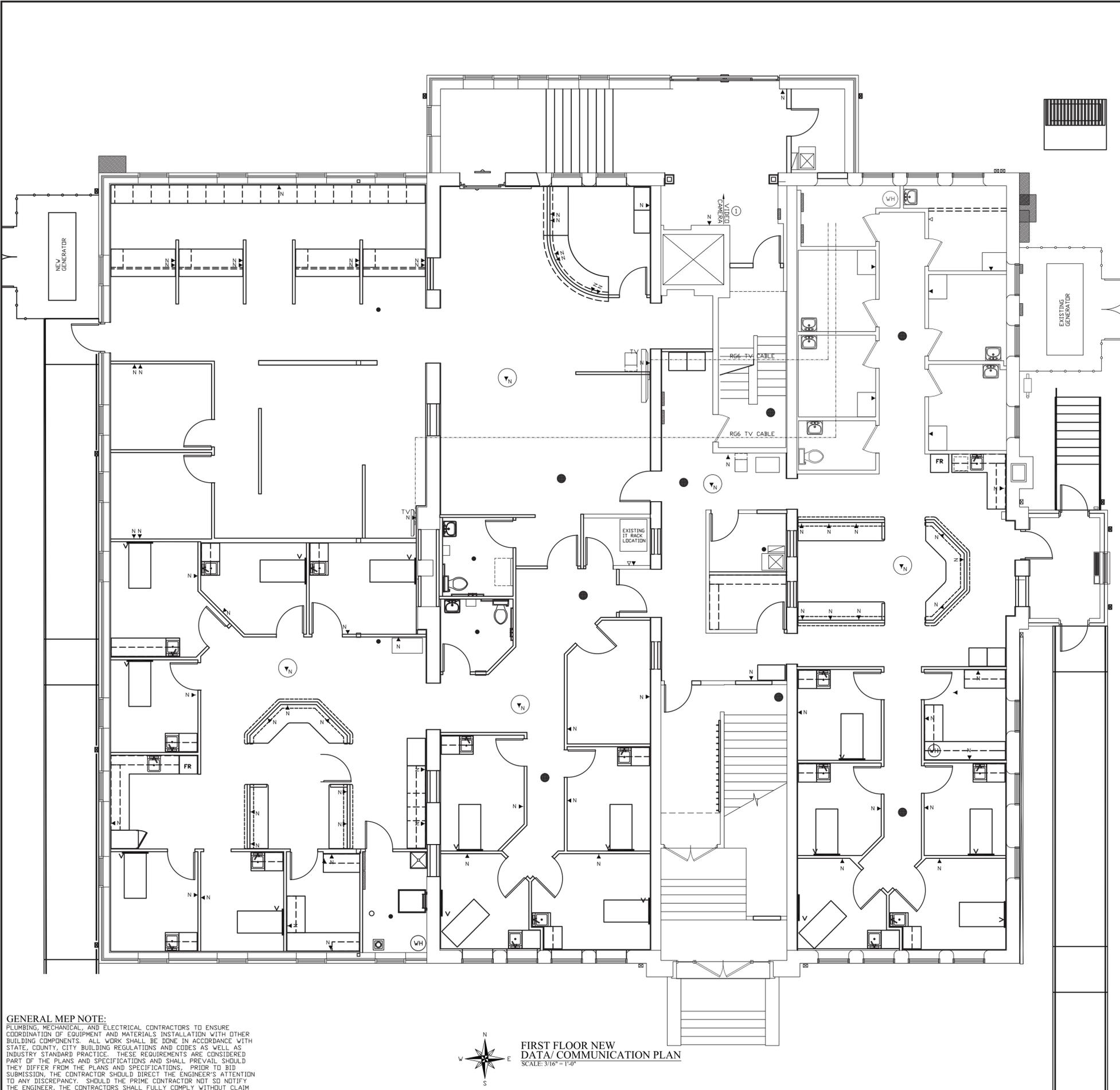
DATA / TELECOM SCHEDULE	
▽	EXISTING DATA DROP TO REMAIN
▽	EXISTING TELEPHONE DROP TO REMAIN
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LOWER LEVEL NEW
 DATA COMMUNICATION PLAN
 SCALE: 3/16" = 1'-0"

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●	NEW PAGING SPEAKER LOCATION PROVIDED AND INSTALLED BY E.C. WIRING PROVIDED AND INSTALLED TO EXISTING OWNERS EQUIPMENT COMPLETE BY E.C.

NUMBERED NOTES:

- ① SECURITY CAMERA SHALL BE PROVIDED BY THE OWNER AND INSTALLED COMPLETE BY THE ELECTRICAL CONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL RUN COPPER CAT6E CABLE FROM NEW CAMERA LOCATION BACK TO EXISTING IT RACK LOCATION
- CONNECTION TO EXISTING IT RACK COMPLETE BY OWNER.
- PROVIDE EXTRA 10'-0" ON EACH END OF CABLE FOR POSSIBLE CAMERA RELOCATION.

GENERAL NOTES:

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FIRST FLOOR NEW DATA / COMMUNICATION PLAN
SCALE: 3/16" = 1'-0"

DATE	REVISIONS	BY



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PHONE: (812) 232-6510

SCALE: 3/16" = 1'-0"
DATE: 09-11-19
DRAWN BY: MRW
APPROVED BY: MRW

PROJECT: 18-20
FILE: Elec #F
E5.4

DATE	REVISIONS	BY



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 BUILDING ADDITIONS & RENOVATION

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PROJECT: 18-20
 FILE: Elec #F
E5.5

DATA / TELECOM SCHEDULE	
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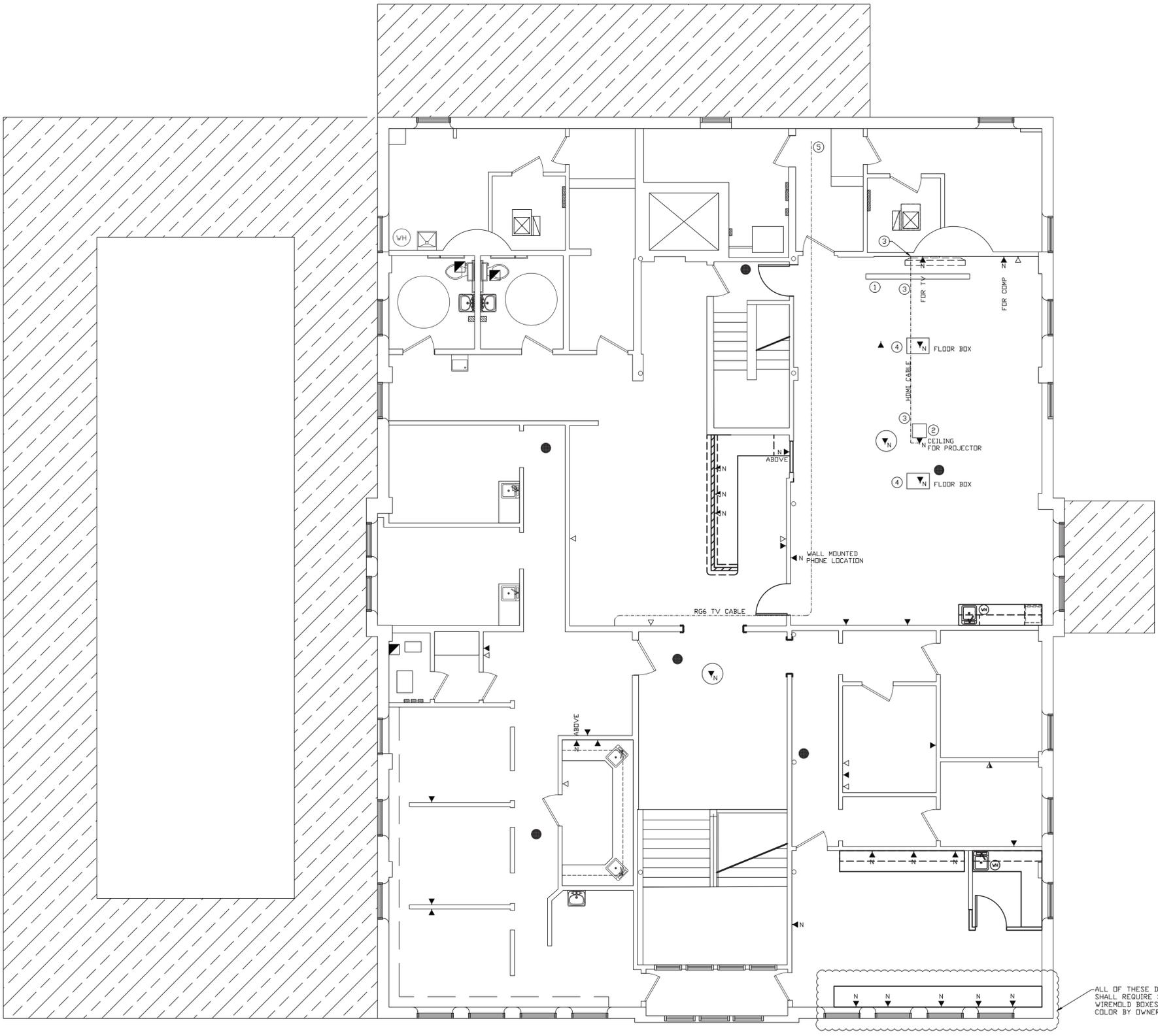
NUMBERED NOTES:

- PROJECTOR SCREENED SUPPLIED BY THE OWNER. INSTALLED BY E.C. COMPLETE. UNIT WILL BE POWERED WITH WALL SWITCH CONTROL.
- CEILING HUNG PROJECTOR SUPPLIED BY THE OWNER. INSTALLED BY E.C. COMPLETE. MOUNTING/SUSPENSION ITEMS BY E.C. COMPLETE. INSTALLED BY E.C.
- PROVIDE BOX IN WALL WITH CONDUIT TO ABOVE CEILING. PROVIDE AND INSTALL HDMI CABLE BETWEEN THIS BOX AND THE NEW CEILING MOUNTED PROJECTOR PROVIDED BY OWNER. PROVIDE TERMINATIONS AS REQUIRED.
- NEW SYSTEM ONE MODULAR IN FLOOR SYSTEM. PROVIDE WITH THE FOLLOWING:
 - ROUND MULTI-SERVICE PVC FLOOR BOX
 - CARPET ASSEMBLY UNIVERSAL COVER COLOR SELECTED BY OWNER
 - SUB-PLATE FOR POWER, DATA, AND TELEPHONE CONNECTIONS.
 - CATEGORY 6E, PHONE, AND 20 AMP RECEPTACLE
- TERMINATE NEW CABLE TV CABLE IN EXISTING FIRST FLOOR MECHANICAL ROOM

GENERAL NOTES:

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ALL OF THESE DATA DROPS SHALL REQUIRE SURFACE MOUNTED WIREMOLD BOXES AND RACEWAYS. COLOR BY OWNER.

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SECOND FLOOR NEW DATA/COMMUNICATION PLAN
 SCALE: 3/16" = 1'-0"

SECTION 16000 - ELECTRICAL

PART 1: GENERAL. The General Conditions and other Contract Documents are hereby made a part of this Section to the same extent as if written out in full.

- 1.1 MANUFACTURER'S DESIGNATION**
When manufacturer catalog numbers are given, they are for assistance to the bidder. In case of discrepancies in catalog numbers, the Contractor shall contact the Engineer of Record.
- 1.2 SUPERVISION**
The Electrical Contractor shall, at all times throughout the construction period, maintain proper supervision of his employees, make orderly disposition of his materials, maintain high-class workmanship, systematically remove debris, cooperate fully with other contractors and subcontractors and avoid the creation of hazards to others on the job.
- 1.3 GUARANTEE**
The Electrical Contractor shall make good any defects due to faulty material or workmanship; he shall correct any malfunction not due to misuse or abuse after date of acceptance which develops in his work, for a period on one (1) year from date of acceptance. The date of final payment shall be recognized as the date of acceptance.
- 1.4 EQUIPMENT MARKING AND PAINTING**
All panels shall have card holders for circuit identification. Circuit legend shall be typewritten.
- 1.5 RULES, REGULATIONS AND PERMITS**
Each outlet and switch shall have circuit identification marked on back of plate.
- 1.6 TEMPORARY SERVICE**
The Electrical Contractor shall furnish and install all systems as hereinafter specified and shown on the drawings.
- 1.7 SYSTEM SCHEDULE**
The work intended under this DIVISION consists of the provision of all labor and material required for the installation of complete systems all in accordance with the specifications and the accompanying drawings. Each system shall be constructed to be complete after all components are in place, and all in working order as approved by the Engineer. Furnish and install all electrical systems specified herein and as shown on the drawings.
- 1.8 SCOPE**
All electrical work to be installed according to the National Electrical Code, current issue, and with service requirements of the Electric Company for this project.

- PART 2: MATERIALS AND METHODS**
- 2.1 PRODUCTS**
ELECTRIC SERVICE: Service shall be as outlined on the electrical drawings for voltage, phase and number of wires. This Contractor will extend branches as indicated.
- FEEDER CIRCUITS:** Feeder circuits shall be installed as shown on the drawings. All conduit shall be concealed except where necessary to use for connections to equipment and panel boards. Each feeder shall be protected with fuses and switches as shown on the drawings.
- BRANCH CIRCUITS:** Branch circuits shall be run from panels as shown with convenience outlet circuits. Outlets shall be grouped on circuits as shown on the drawings.
- PANELS:** As indicated on the drawings. Panels and main breakers shall have integrated equipment short circuit rating as required by the local electrical utility and match the existing panels.
- RECEPTACLES:** See device specifications on drawings.
- SWITCHES:** See device specifications on drawings.
- LIGHTING FIXTURES:** See schedule on drawings. To be installed with a complete complement of lamps.
- Before roughing-in outlets for various fixtures, this Contractor shall make certain that the fixture to be supplied is fitted with the proper hanging accessories to suit the purpose intended.**
- Flush type or recessed fixtures shall be installed with proper plaster rings or ceiling alighting guides for the ceilings to which they are to be attached, and shall be correctly spaced for symmetry with the surrounding ceiling pattern.
- All recessed fixtures shall be light-tight under the surface trim; if not inherently leakproof by manufacturer's design, they shall be corrected by the use of adhering type gaskets which will not mar the ceiling surfaces.
- Surface type fixtures shall have adequate knockouts, symmetrically spaced to insure access to the wiring space in the outlet above. Surface fixture bodies shall be effectively grounded by (1) fixture support, (2) two screws into the appliance or plaster cover, or (3) bare bonding wire from a ground bushing in the outlet box to the fixture body.
- The Electrical Contractor shall furnish and install, complete with all glassware and lamps of sizes indicated by wattage, all fixtures as shown in the fixture schedule on the drawings.
- All fixtures shall bear the Underwriters' Laboratories Label.
- SAFETY SWITCHES:** Provide proper size, heavy duty safety switches for motors and equipment where indicated and not in proximity of the panel from which fed. Switches to be of the non-fused type. Switches on outdoor equipment shall have NEMA 3R enclosures.
- MISCELLANEOUS WIRING:** Provide and install service feeders for air conditioning units, exhaust and ventilating fans, water heater, etc., as indicated. Temperature control wiring to be provided and installed by the Electrical Contractor. Control wiring connections to thermostats and mechanical units to be by the Mechanical Contractor. All equipment provided for this project are to be as specified on the drawings. Other manufacturer's may be substituted as long as the product is an approved "equal" by the Engineer of Record.
- DATA / INTERNET SYSTEMS:** AS SHOWN ON DRAWINGS
- FIRE ALARM SYSTEM:** AS SHOWN ON DRAWINGS
- TELEPHONE SYSTEM:** BY OWNER COMPLETE
- VIDEO SYSTEM:** AS SHOWN ON DRAWINGS
- GROUNDING:** Grounding of all interior metallic water piping is to be per NEC. Grounding of all steel buildings is to be in strict accordance with NEC. Grounding of interior gas piping as required by Code.

- 2.2 WIRING PLAN**
The Electrical Contractor may use the accompanying drawings as his working drawings. In this case, the general plan and circuiting shall be substantially followed except for deviations due to mechanical and structural interference.
- The Contractor shall, however, furnish additional drawings as hereinafter designated, or wherever directed, to bring out detail to a greater degree than that given on the accompanying drawings, or where alternate equipment, as furnished, does not fit the layout as planned on the original drawings.
- The Contractor may elect to furnish complete working drawings of his own. In this case, he shall furnish prints for approval before the work has begun. Any work installed before Engineer's approval of the drawings may be subject to rejection, if in the Engineer's opinion, it does not conform with the intent of these specifications and the accompanying drawings.
- 2.3 DRAWINGS**
The Electrical Contractor shall furnish "Shop Drawings" in accordance with the requirements of DIVISION 1, GENERAL CONDITIONS and all amendments thereto. He shall obtain, ahead of job progress, the necessary manufacturer's drawings, wiring diagrams, and operating instructions for other Contractor's equipment to which he is to connect. He shall also maintain a complete set of general, structural, electrical and mechanical drawings during the progress of the job. He shall also maintain a clean set of electrical drawings for record purposes, upon which he shall mark, legibly, all deviations from the Contract Documents. This set shall be turned over to the Engineer at the termination of the job for an "As Built" set.
- 2.4 FIELD LAYOUT**
The intent of the drawings and these specifications is to cover circuiting, outlet location, and system coordination rather than to cover the exact location of each conduit; therefore, where interference with mechanical equipment and with the lines of other contractors are encountered, this Contractor shall at all times plan his work far enough in advance to avoid interfering with heavy equipment and large piping which cannot be readily shifted.
- 2.5 TYPE OF INSTALLATION**
The basic wiring system shall be installed in accordance with the National Electrical Code. All wiring shall be THHN in EMT conduit where exposed. All concealing wiring may be MC Cable. Shared neutrals are not allowed.
- 2.6 CONDUIT AND FITTINGS**
Conduit for mains and feeders 2" IPS and larger shall be rigid galvanized heavy wall, threaded. All conduits exposed to weather, exposed through floors subject to hose cleaning and mopping, or exposed in earth filled spaces, shall be heavy wall galvanized. Other non-exposed conduits may be installed with either rigid conduit or electrical metallic tubing hereinafter referred to as EMT.
- Conduits laid under/over indoors may be bare galvanized.
- In case of cast in slab work, all runs of EMT which may be bent or broken by removal of forms shall be carefully installed.
- All boxes shall be galvanized steel for use with MC Cable or EMT Conduit. Fiberglass boxes shall be used for all NM-B installations. Blue plastic PVC boxes are prohibited on this project.
- 2.7 BASIC WIRING SYSTEM**
The basic wiring system shall be fabricated as specified on the electrical drawings or in this specification. Wiring shall be sized as required to conform to the requirements of the latest National Electrical Code. All wire in conduit to be type THHN copper with all sizes larger than #8 AWG to be stranded.
- A. For wire #8 and smaller, provide solid wire; for wire larger than #8, provide stranded wire.
- B. Connectors shall be Thomas-Betts, Appleton, or Metalflectrics.
- C. Conductors shall be Triangle, Anaconda, Phelps Dodge, Columbia, Hatfield or Parantite and shall be sized per the requirements of NEC.
- No conductor to be smaller than #12 AWG.
- All wire in conduit to be THHN copper with all sizes larger than #8 AWG to be stranded.
- No conductor smaller than #12.
- Back-Wiring is strictly prohibited. All wiring connections to be properly made at screw terminals with all units wrapped in electrical tape to cover all exposed terminals. Power service to be as specified on the electrical drawings.
- The Contractor shall not charge as an extra, relocation of devices and fixtures, if new location is not over six feet from the original location.
- Grounding of all interior metallic water piping to be per NEC.
- Exterior outlets and outlets indicated near sinks and lavatories shall be protected by approved "Ground Fault Circuit Interrupters" (GFI) typical throughout. GFIs installed where required by the National Electrical Code.

- 2.8 LOCATION OF OUTLETS AND EQUIPMENT CONNECTIONS**
All outlets, as shown on the drawings, are intended to be in proper relative positions as far as symbol standards and the scale of the drawings permit. The exact positioning and final locations of these outlets, however, shall be as directed by the Engineer. This Contractor shall obtain the necessary horizontal and vertical dimensions of the outlets before roughing-in begins. This Contractor shall also obtain all necessary drawings and rough-in dimensions from the other contractors whose equipment is to be fitted.
- 2.9 CUTTING AND PATCHING**
The Electrical Contractor shall do all the necessary cutting and fitting required for the proper installation of his work and shall repair any damage done by him or his workmen to the satisfaction of the Engineer.
- 2.10 DEMOLITION**
The Electrical Contractor shall dispose of all material in a legal matter, including any existing fluorescent tubes and ballasts.

- PART 3: EXECUTION**
- All work on this project must be complete of all parts and supplies and hook-ups to make a complete operating job when the project is finished.
- All equipment shall be installed in strict accordance with the manufacturer's installation instructions.
- Verify voltage and amperage requirements for all equipment with Mechanical Contractor prior to start of the project.
- Compaction of soil shall be as stated in the General Written Specifications for all trenching.
- All trenching required for installation of products specified in this section of work shall be done by the Electrical Contractor. Backfilling after trenching shall be done in accordance with the General Written Specifications by the Electrical Contractor. After backfilling, the Electrical Contractor shall finish grade the area disturbed by the trenching to match that of the site prior to trenching.

END OF SECTION

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ELECTRICAL DEVICE SCHEDULE	
\$	PASS & SEYMOUR CSB20AC1 - SINGLE POLE SWITCH
\$2	PASS & SEYMOUR CSB20AC2 - DOUBLE POLE SWITCH
\$3	PASS & SEYMOUR CSB20AC3 - THREE WAY SWITCH
\$4	PASS & SEYMOUR CSB20AC4 - FOUR WAY SWITCH
\$5	DIMMER CAPABLE WITH LIGHT FIXTURES SPECIFIED
\$6	PASS & SEYMOUR WSP200 OCCUPANCY SENSOR
\$7	INTERMATIC FF60MHC COMMERCIAL SPRING WOUND TIMER
\$8	PASS & SEYMOUR CSB20AC4 - GAS FURNACE CONNECTION
\$9	PASS & SEYMOUR CR20 RECEPTACLE
\$10	PASS & SEYMOUR CR20 QUAD
\$11	PASS & SEYMOUR CR20 RECEPTACLE - MOUNT ABOVE BACKSPLASH
\$12	PASS & SEYMOUR CR20 RECEPTACLE FOR DEDICATED COPIER
\$13	PASS & SEYMOUR CR20 RECEPTACLE CEILING MOUNTED
\$14	MICROWAVE OVEN CONNECTION AS REQUIRED
\$15	DISH WASHER CONNECTION AS REQUIRED
\$16	PASS & SEYMOUR CR20 RECEPTACLE W/ FLUSH MOUNTED COVER
\$17	PASS & SEYMOUR CR20 WITH WEATHERPROOF COVER
\$18	PASS & SEYMOUR CR20 FOR TV - HEIGHT DIRECTED BY OWNER A.F.F.
\$19	PASS & SEYMOUR CR20 RECEPTACLE SURFACE MOUNTED WITH VIREMOLD METAL RACEWAYS AND BOXES. COLOR BY OWNER
\$20	PASS & SEYMOUR 8300 RECEPTACLE - HOSPITAL GRADE
\$21	PASS & SEYMOUR TR20 - TAMPER RESISTANT
\$22	PASS & SEYMOUR 535E TVSS/ISOLATED GROUND RECEPTACLE
\$23	PASS & SEYMOUR 2095T GFCI RECEPTACLE - TAMPER RESISTANT
\$24	PASS & SEYMOUR 2095T GFCI RECEPTACLE - MOUNT ABOVE BACKSPLASH
\$25	PASS & SEYMOUR 2095T GFCI RECEPTACLE W/ WEATHERPROOF COVER
\$26	PASS & SEYMOUR 3890 DR 3894 50 AMP FLUSH MOUNTED RANGE RECEPTACLE COORDINATE WITH OWNER EQUIPMENT
\$27	PASS & SEYMOUR 3860 DR 3864 30 AMP FLUSH MOUNTED DRYER RECEPTACLE COORDINATE WITH OWNER EQUIPMENT
\$28	PASS & SEYMOUR 8300 RECEPTACLE - HOSPITAL GRADE FOR VITALS MONITOR. HEIGHT AFF AND LOCATION AS DIRECTED BY THE OWNER.
\$29	PASS & SEYMOUR 8300 RECEPTACLE - HOSPITAL GRADE FOR COMPUTER MONITOR. HEIGHT AFF AND LOCATION AS DIRECTED BY THE OWNER.
\$30	2 GANG CDMB DATA/VOICE W/ 1" CONDUIT TO ACCESSIBLE CEILING
\$31	SINGLE GANG BOX W/ 3/4" CONDUIT TO ATTIC AREA - 16" ABOVE CEILING
\$32	SINGLE GANG BOX W/ 3/4" CONDUIT TO ATTIC AREA - 16" ABOVE CEILING MOUNT AT 50" A.F.F.
\$33	2 GANG TV OUTLET BOX WITH 3/4" CONDUIT TO ACCESSIBLE CEILING
\$34	TELEPHONE TERMINAL BOARD LOCATION E.C. TO PROVIDE AND INSTALL 48"X48" 3/4" PLYWOOD WALL MOUNTED
\$35	GARBAGE DISPOSAL CONNECTION
\$36	FURNACE BY M.C. WIRED BY E.C.
\$37	MOTDR CONNECTION AS NOTED BY E.C.
\$38	PASS & SEYMOUR CSM1000 DUAL TECHNOLOGY CEILING OCCUPANCY SENSOR WITH WSP2100 220 VOLT POWER PACK AS REQUIRED
\$39	EXHAUST FAN - CONTROLLED AS SHOWN.

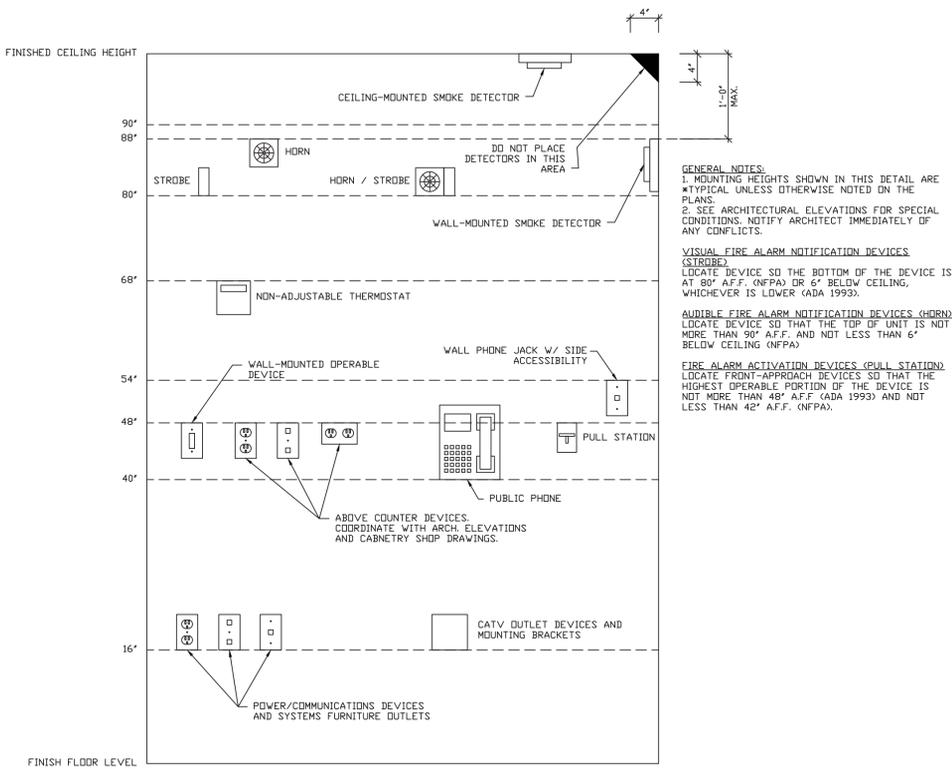
ELECTRICAL DEVICE NOTES:

- COLOR OF DEVICES AS SELECTED BY THE OWNER.
- WALL PLATES SHALL BE PASS & SEYMOUR THERMOSET PLASTIC - STANDARD SIZE.
- FIELD COORDINATE DEVICE LOCATION WITH ARCHITECTURAL CASEWORK DRAWINGS.
- DEVICES AS LISTED OR APPROVED EQUALS.

LIGHT FIXTURE SCHEDULE							
MARK	MFG.	MODEL	DESCRIPTION	VOLTAGE	INPUT WATTS	LAMPS	REMARKS
'A'	LITHONIA	2BLT4-40L-ADP-GZ1-LP840	2'-0"x4'-0" RECESSED LED FIXTURE WITH VOLUMETRIC DISTRIBUTION 4064 LUMENS	120 VOLT	31 WATTS	4000K 82CRI	CONTROLLED BY COMPATIBLE WALL MOUNTED DIMMER AT LOCATIONS SHOWN.
'A1'	LITHONIA	2BLT4-48L-ADP-GZ1-LP840	2'-0"x4'-0" RECESSED LED FIXTURE WITH VOLUMETRIC DISTRIBUTION 5039 LUMENS	120 VOLT	38 WATTS	4000K 82CRI	CONTROLLED BY COMPATIBLE WALL MOUNTED DIMMER AT LOCATIONS SHOWN.
'A2'	LITHONIA	2BLT4-48L-ADP-GZ1-LP840	2'-0"x4'-0" SURFACE MOUNTED LED FIXTURE WITH VOLUMETRIC DISTRIBUTION 5039 LUMENS	120 VOLT	38 WATTS	4000K 82CRI	CONTROLLED BY COMPATIBLE WALL MOUNTED DIMMER AT LOCATIONS SHOWN.
'B'	LITHONIA	2BLT2-20L-ADP-GZ1-LP840	2'-0"x2'-0" RECESSED LED FIXTURE WITH VOLUMETRIC DISTRIBUTION 2065 LUMENS	120 VOLT	16 WATTS	4000K 82CRI	CONTROLLED BY COMPATIBLE WALL MOUNTED DIMMER AT LOCATIONS SHOWN.
'C'	LITHONIA	BLT4-30L-ADP-GZ1-LP840	1'-0"x4'-0" RECESSED LED FIXTURE WITH VOLUMETRIC DISTRIBUTION 2965 LUMENS	120 VOLT	23 WATTS	4000K 82CRI	-
'D'	LITHONIA	LBL4-4000LM-80CRI-40K	10"x4'-0" SURFACE LED FIXTURE LDW PROFILE CURVED BASKET 4253 LUMENS	120 VOLT	33 WATTS	4000K 80CRI	-
'D1'	LITHONIA	LBL4-3000LM-80CRI-40K	10"x4'-0" SURFACE LED FIXTURE LDW PROFILE CURVED BASKET 3288 LUMENS	120 VOLT	26 WATTS	4000K 80CRI	-
'D2'	LITHONIA	LBL4-4000LM-80CRI-40K	10"x4'-0" SURFACE LED FIXTURE LDW PROFILE CURVED BASKET 4253 LUMENS	120 VOLT	33 WATTS	4000K 80CRI	CHAIN HUNG FROM STRUCTURE AS REQUIRED
'EM'	LITHONIA	ELM2-LED-SD	QUANTUM THERMOPLASTIC EMERGENCY LIGHT. WHITE IN COLOR WITH SELF-DIAGNOSTICS	120 VOLT	3.0 WATTS	2 - 1.5W 3.6V WHITE LED	-
'EXM1'	LITHONIA	LHQM-LED-G-HO-SD WITH ELA-QWP-L0309SD REMOTE HEAD.	QUANTUM THERMOPLASTIC EXIT/UNIT COMBO WITH SELF-DIAGNOSTICS. WHITE IN COLOR WITH REMOTE HEAD.	120 VOLT	3.0 WATTS	2 - 1.5W 9.6V WHITE LED	-
'EXM2'	LITHONIA	LHQM-LED-G-SD	QUANTUM THERMOPLASTIC EXIT/UNIT COMBO WITH SELF-DIAGNOSTICS. WHITE IN COLOR.	120 VOLT	3.0 WATTS	2 - 1.5W 9.6V WHITE LED	-
'EX'	LITHONIA	#LQM-G-W-3-R-120/277 -ELN-SD	QUANTUM THERMOPLASTIC EXIT UNIT WITH SELF-DIAGNOSTICS. WHITE IN COLOR.	120 VOLT	3.0 WATTS	2 - 1.5W 9.6V WHITE LED	-
'F'	-	LED FIXTURE WITH DIMMING CAPABILITY	LED FIXTURE WITH DIMMING CAPABILITY \$9300 PER FIXTURE	120 VOLT	-	4000K	STEM MOUNTED FROM CEILING

LIGHT FIXTURE NOTES:

- ALL LIGHT FIXTURES SHALL BE DLC CERTIFIED.
- SPECIFIED UNITS ARE BY LITHONIA NO SUBSTITUTIONS OR ALTERNATES ALLOWED.
- DIMMING LIGHT FIXTURES SPECIFIED HAVE 0-10 VOLT DIMMING AND WILL REQUIRE ADDITIONAL WIRE FOR DIMMING CONTROL. PROVIDE AND INSTALL ADDITIONAL WIRE FOR DIMMING CONTROL AS REQUIRED.



ELECTRICAL MOUNTING HEIGHT SCHEDULE

SCALE: NONE

- GENERAL NOTES:**
- MOUNTING HEIGHTS SHOWN IN THIS DETAIL ARE TYPICAL UNLESS OTHERWISE NOTED ON THE PLANS.
 - SEE ARCHITECTURAL ELEVATIONS FOR SPECIAL CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS.
- VISUAL FIRE ALARM NOTIFICATION DEVICES (STROBE)**
OPERABLE DEVICES SO THE BOTTOM OF THE DEVICE IS AT 80" AFF. (NFPA) OR 6" BELOW CEILING, WHICHEVER IS LOWER (ADA 1993).
- AUDIBLE FIRE ALARM NOTIFICATION DEVICES (HORN)**
LOCATE DEVICE SO THAT THE TOP OF UNIT IS NOT MORE THAN 90" AFF. AND NOT LESS THAN 6" BELOW CEILING (NFPA)
- FIRE ALARM ACTIVATION DEVICES (PULL STATION)**
LOCATE FRONT-APPROACH DEVICES SO THAT THE HIGHEST OPERABLE PORTION OF THE DEVICE IS NOT MORE THAN 48" AFF. (ADA 1993) AND NOT LESS THAN 42" AFF. (NFPA).

- POWER/COMMUNICATION DEVICES:**
OUTLETS SHALL BE LOCATED AT 16" AFF. TO THE BOTTOM OF THE BOX. ABOVE COUNTER DEVICES SHALL BE LOCATED AT 2" ABOVE THE BACKSPLASH OF THE COUNTER TO THE BOTTOM OF THE DEVICES. VERIFY WITH ARCHITECTURAL DETAILS.
- WALL-MOUNTED OPERABLE DEVICES (STROBE)**
OPERABLE DEVICES SHALL BE LOCATED AT 48" AFF. TO THE TOP OF THE OPERABLE PORTION OF THE DEVICE. WALL-MOUNTED TELEPHONE JACKS WITH SIDE ACCESSIBILITY MAY BE MOUNTED UP TO 54" AFF.
- WALL-MOUNTED OPERABLE DEVICES**
INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING: ADJUSTABLE THERMOSTATS, LIGHT SWITCHES, DIMMERS, CONTROLS, ETC. PUSH BUTTONS OTHER CONTROL OR "CALL" DEVICES

DATE	REVISIONS	BY



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1436 LOCUST STREET
TERRE HAUTE, INDIANA 47807
BUILDING ADDITIONS & RENOVATION

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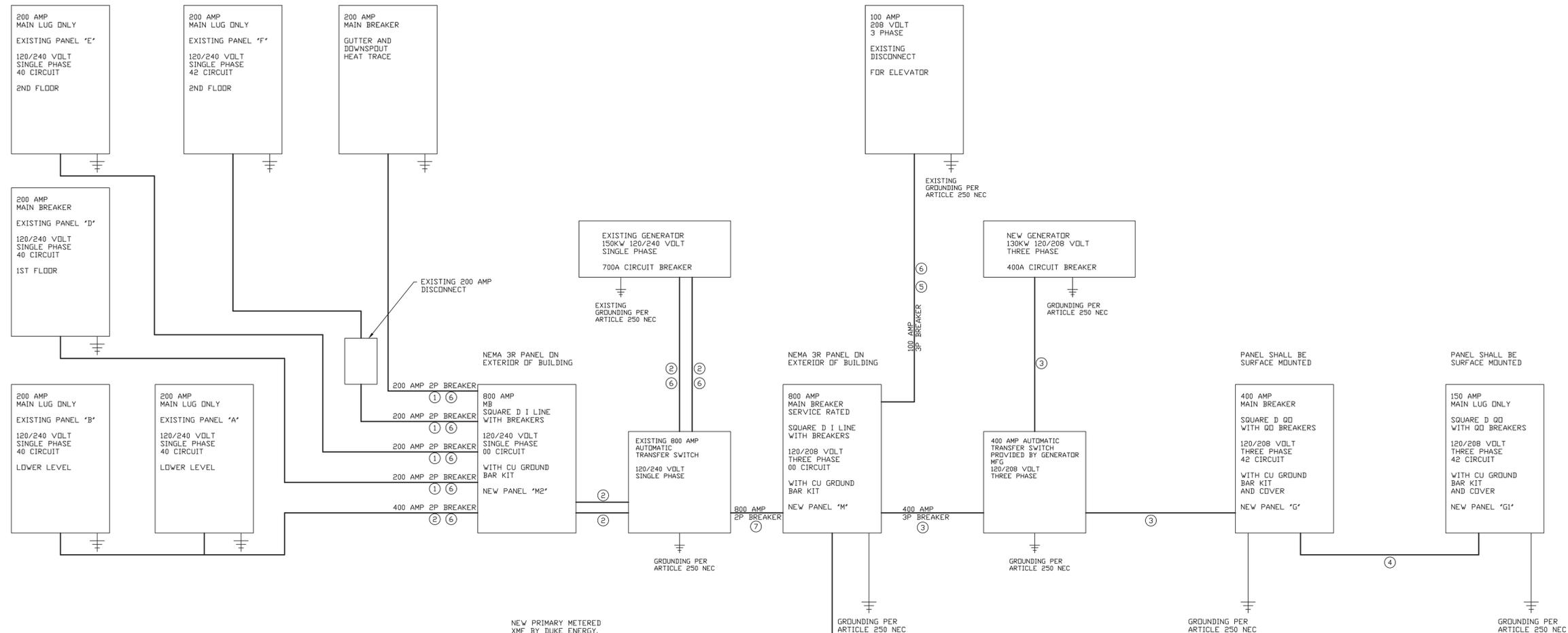
SCALE: NONE	DRAWN BY: MRW	APPROVED BY: MRW
DATE: 09-11-19		

PROJECT: 18-20
FILE: MEP #F
E6.0

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NUMBERED NOTES:

- ① 200 AMP 120/240 VOLT SINGLE PHASE FEED
2" CONDUIT
WITH 3 - 3/0 THHN CU WIRE
WITH 1 - #4 CU GROUND
- ② 400 AMP 120/240 VOLT SINGLE PHASE FEED
4" CONDUIT
WITH 3 - 600 THHN CU WIRE
WITH 1 - 1/0 CU GROUND
- ③ 400 AMP 120/208 VOLT THREE PHASE FEED
4" CONDUIT
WITH 4 - 600 THHN CU WIRE
WITH 1 - 1/0 CU GROUND
- ④ 150 AMP 120/208 VOLT THREE PHASE FEED
2" CONDUIT
WITH 4 - 1/0 THHN CU WIRE
WITH 1 - #6 CU GROUND
- ⑤ 100 AMP 120/208 VOLT THREE PHASE FEED
1 1/2" CONDUIT
WITH 4 - #2 THHN CU WIRE
WITH 1 - #8 CU GROUND
- ⑥ ELECTRICAL CONTRACTOR MAY RE-USE
PORTION OF EXISTING FEEDERS.
PROVIDE FEEDERS AS SPECIFIED OR
CONNECTIONS TO EXISTING FEEDERS AS
REQUIRED.
PROVIDE JUNCTION BOXES AS REQUIRED.
- ⑦ 800 AMP 120/240 VOLT SINGLE PHASE FEED
USE PARALLEL FEEDS
2 - 4" CONDUIT EACH WITH
WITH 3 - 600 THHN CU WIRE
WITH 1 - 1/0 CU GROUND

NEW PRIMARY METERED
XMF BY DUKE ENERGY.
CONCRETE PAD COMPLETE BY
ELECTRICAL CONTRACTOR IN
BASE BID. FOLLOW ALL INSTALLATION
REQUIREMENTS BY DUKE ENERGY INCLUDING
LOCATION AND STEEL PIPE BOLLARDS.
REFER TO DRAWING HE6.3 AND HE6.4



PROVIDE CONDUITS AS REQUIRED BY
DUKE ENERGY.
WIRE SHALL BE SUPPLIED AND
INSTALLED BY DUKE ENERGY

2 - 4" CONDUITS
EACH WITH THE FOLLOWING
4 - 600 CU THHN
1 - 1/0 CU GROUND

ELECTRICAL SERVICE DIAGRAM
SCALE: NONE

ELECTRICAL SERVICE NOTES:

- 1. ELECTRICAL CONTRACTOR TO VERIFY WITH LOCAL UTILITY THAT THE METERING EQUIPMENT SPECIFIED MEETS LOCAL UTILITY REQUIREMENTS PRIOR TO PLACING ORDER FOR EQUIPMENT.
- 2. ELECTRICAL PANEL SHALL HAVE SHORT CIRCUIT CURRENT RATING AS REQUIRED BY LOCAL UTILITY.
- 3. ELECTRICAL CONTRACTOR SHALL BOND/GROUND THE METAL WATER PIPING IN ACCORDANCE WITH SECTION 250.104A OF THE 2008 NEC.
- 4. ELECTRICAL CONTRACTOR SHALL BOND/GROUND THE GAS PIPING IN ACCORDANCE WITH SECTION 250.104B OF THE 2008 NEC.
- 5. ELECTRICAL CONTRACTOR SHALL BOND/GROUND THE STRUCTURAL METAL STEEL FRAMING IN ACCORDANCE WITH SECTION 250.104C OF THE 2008 NEC.

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DATE	REVISIONS	BY

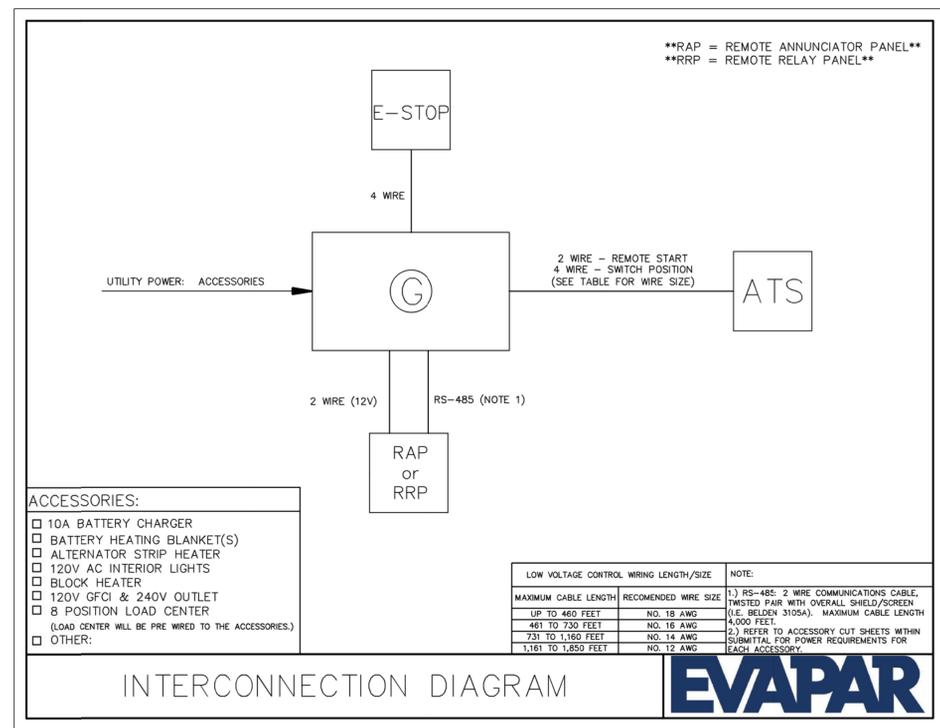
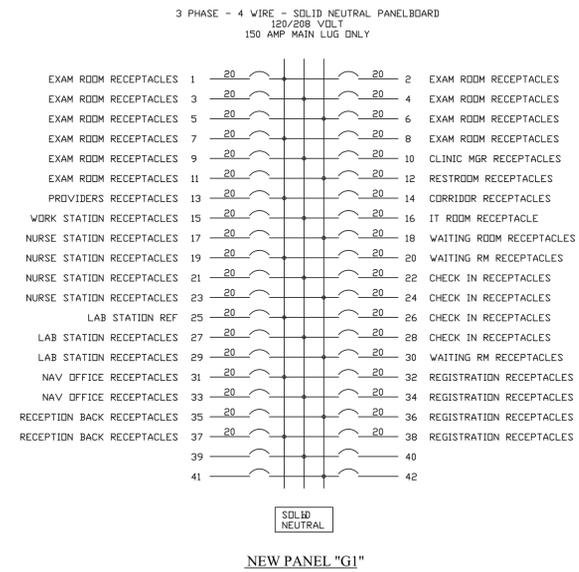
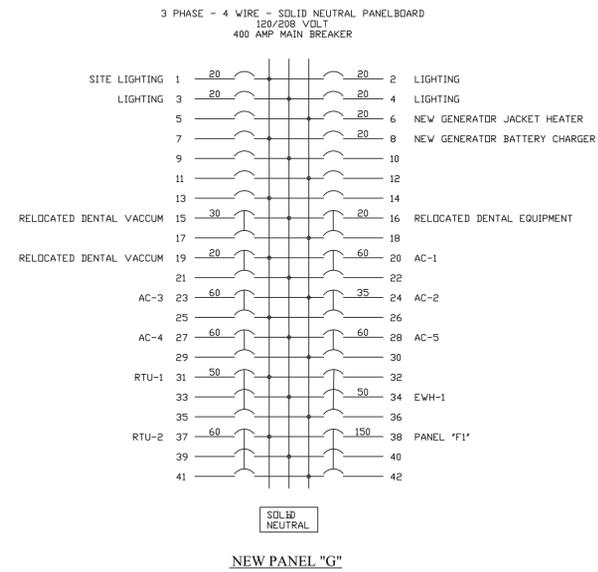


WABASH VALLEY HEALTH CENTER, INC.
1436 LOCUST STREET
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BUILDING ADDITIONS & RENOVATION

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DATE: 09-11-19
DRAWN BY: MRW
APPROVED BY: MRW

PROJECT: 18-20
FILE: MEP #F
E6.1



GENERATOR WIRING DIAGRAM

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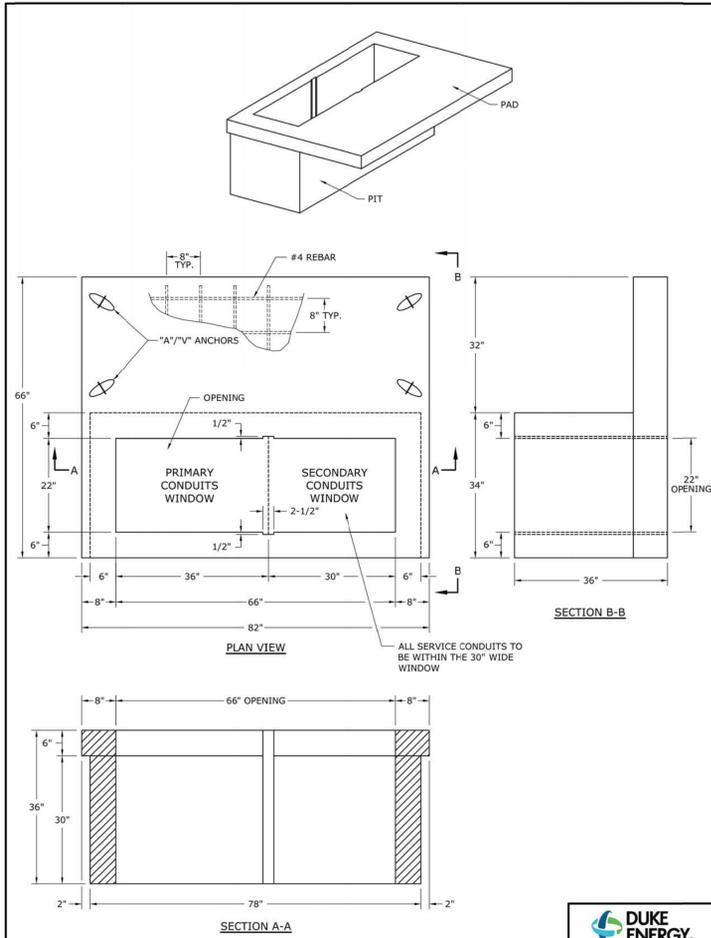


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PROJECT: 18-20
FILE: MEP #F
E6.2



DUKE ENERGY			
DEC	DEM	DEP	DEF
X	X	X	

SMALL PIT PAD SPECIFICATIONS

3				
2				
1				
0	3/11/19	NORGAN	WALNORTH	AKCOCK
REVISION	BY	CHK'D	APPR.	

PAGE 3

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 CONTACT: GEORGE SCHURR
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UTILITY PRECAST
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 EMAIL: LARINDA@UTILITYPRECASTINC.COM
 WEBSITE: UTILITYPRECASTINC.COM

PAD TYPE	PRE-CAST CONCRETE PADS				
	SUPPLIER PART NUMBER				
SMALL FLAT PAD	TRPAD082066	SEE CONTACT ABOVE	FP82666	PAD-82x66	FTP8120
LARGE FLAT PAD	TRPAD098104	SEE CONTACT ABOVE	FP981046	PAD-104x98	FTP8130
SMALL PIT	TRPIT082066	SEE CONTACT ABOVE	PIT783430	PIT-78x34	FTP8121
LARGE PIT	TRPIT098104	SEE CONTACT ABOVE	PIT824030	PIT-82x40	FTP8131
SMALL DIVIDER	TRDV036023	SEE CONTACT ABOVE	DESMDIV	PITDIV-36x23	FTP8122
LARGE DIVIDER	TRDV036030	SEE CONTACT ABOVE	DELGDIV	PITDIV-36x29	FTP8132

DUKE ENERGY			
DEC	DEM	DEP	DEF
X	X	X	

APPROVED SUPPLIERS OF PRE-CAST CONCRETE PADS

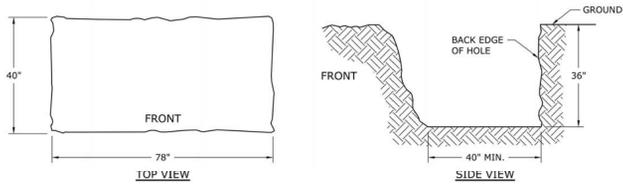
3				
2				
1				
0	3/11/19	NORGAN	WALNORTH	AKCOCK
REVISION	BY	CHK'D	APPR.	

PAGE 7

INSTALLING A SMALL TWO-PIECE PRE-CAST PIT PAD

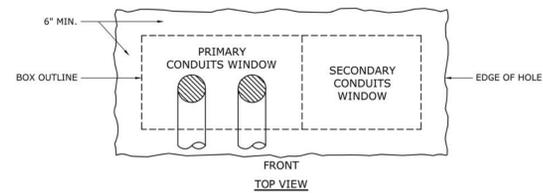
STEP 1: DIG A RECTANGULAR SHAPED HOLE APPROXIMATELY 40 INCHES BY 78 INCHES AND 36 INCHES DEEP FOR THE PIT. (SEE BELOW)

NOTE: THE HOLE INDICATES THE FRONT OF THE TRANSFORMER PAD. THE PAD SHOULD BE LOCATED SO THAT A MINIMUM OF 10 FEET OF CLEARANCE CAN BE MAINTAINED IN FRONT OF THE TRANSFORMER AND A MINIMUM OF 3 FEET OF CLEARANCE ON ALL OTHER SIDES.



STEP 2: INSTALL TWO (2) CONDUIT ELBOWS IN THE BOTTOM OF THE HOLE FOR THE PRIMARY CONDUCTORS AS SPECIFIED BY DUKE ENERGY ENTERING FROM THE FRONT OF HOLE AND PLACED SO THEY WILL COME UP IN THE CENTER OF THE PRIMARY SIDE OF THE WINDOW OPENING OF THE PAD. TAPE BOTH ENDS OF CONDUITS COMPLETELY CLOSED.

NOTE: THE CUSTOMER'S SECONDARY CONDUITS SHOULD BE INSTALLED AT THIS TIME. IF THE CUSTOMER IS PROVIDING THE SERVICE CONDUITS TO THE TRANSFORMER, THEY MAY ELECT TO ENTER THE SECONDARY SIDE OF THE PIT FROM THE FRONT, REAR OR RIGHT SIDE. IF DUKE ENERGY IS PROVIDING THE SERVICE CONDUITS, ALL CONDUITS MUST ENTER FROM THE FRONT OF THE PIT.



STEP 3: FILL APPROXIMATELY 6 INCHES OF LEVELED, COMPACTED SOIL IN THE HOLE TO SUPPORT THE CONDUIT ELBOWS. INSTALL THE PIT IN PLACE SO THAT THE CONDUITS ARE LOCATED IN THE CORRECT POSITION WITHIN THE PAD WINDOW. ENSURE THAT THE TOP OF THE PIT IS INSTALLED LEVEL AND FLUSH WITH THE SURROUNDING EARTH SO THAT WHEN THE PAD IS INSTALLED, THE BOTTOM IS IN CONTACT WITH THE ENTIRE SURFACE AREA OF THE TOP OF THE PIT.

DUKE ENERGY			
DEC	DEM	DEP	DEF
X	X	X	

INSTALLING A SMALL TWO-PIECE PRE-CAST PIT PAD

3				
2				
1				
0	3/11/19	NORGAN	WALNORTH	AKCOCK
REVISION	BY	CHK'D	APPR.	

PAGE 8

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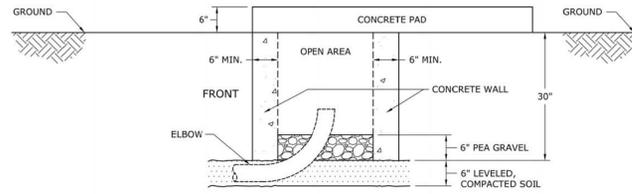
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SCALE: NONE
 DATE: 09-11-19
 DRAWN BY: MRW
 APPROVED BY: MRW

PROJECT: 18-20
 FILE: MEP #F

E6.3

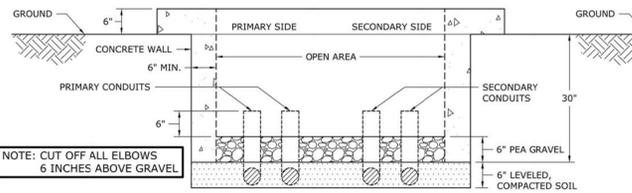
STEP 4:
FILL IN THE AREA IN FRONT OF AND AROUND THE PIT WITH DIRT. CAREFULLY COMPACT THE GROUND AROUND THIS AREA TO PREPARE FOR THE FLAT PORTION OF THE PIT PAD. FILL THE BOTTOM OF THE PIT WITH 6 INCHES OF PEA GRAVEL (SEE BELOW). ENSURE THE TOP OF THE PIT IS FREE OF GRAVEL AND OTHER DEBRIS.



SIDE VIEW

STEP 5:
APPLY A LAYER OF CONEAL ON THE TOP OF THE PIT BEFORE PLACING THE PAD ONTO THE PIT TO SEAL AND ADHERE THE PAD TO THE PIT.

STEP 6:
INSTALL THE FLAT PORTION OF THE PAD ON THE GROUND AND PIT, LINING UP THE WINDOW OF THE PAD WITH THE PIT. SECURE THE PAD TO THE PIT SO THAT THEY REMAIN IN LINE.



FRONT VIEW

NOTE: CUT OFF ALL ELBOWS 6 INCHES ABOVE GRAVEL

INSTALLING A SMALL TWO-PIECE
PRE-CAST PIT PAD



DEC	DEM	DEP	DEF
X	X	X	

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GENERAL MEP NOTE:
PLUMBING, MECHANICAL, AND ELECTRICAL CONTRACTORS TO ENSURE COORDINATION OF EQUIPMENT AND MATERIALS INSTALLATION WITH OTHER BUILDING COMPONENTS. ALL WORK SHALL BE DONE IN ACCORDANCE WITH STATE, COUNTY, CITY BUILDING REGULATIONS AND CODES AS WELL AS INDUSTRY STANDARD PRACTICE. THESE REQUIREMENTS ARE CONSIDERED PART OF THE PLANS AND SPECIFICATIONS AND SHALL PREVAIL SHOULD THEY DIFFER FROM THE PLANS AND SPECIFICATIONS, PRIOR TO BID SUBMISSION, THE CONTRACTOR SHOULD DIRECT THE ENGINEER'S ATTENTION TO ANY DISCREPANCY. SHOULD THE PRIME CONTRACTOR NOT SO NOTIFY THE ENGINEER, THE CONTRACTORS SHALL FULLY COMPLY WITHOUT CLAIM FOR EXTRA COSTS. REFER TO DRAWINGS FOR GOVERNING BUILDING CODES.

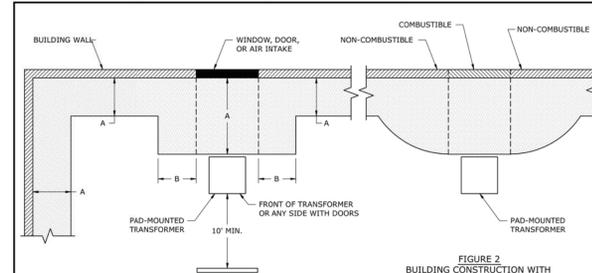


FIGURE 1
ALLOWABLE CLEARANCES

TYPE OF CONSTRUCTION	DIMENSION A: CLEARANCE EXTENDING OUT FROM BUILDING (FT)	DIMENSION B: SIDE CLEARANCE MEASURED FROM EDGE OF WINDOW, DOOR, ETC. (FT)
NON-COMBUSTIBLE WALLS	3	N/A
COMBUSTIBLE WALLS	10	N/A
DOORS	20	10
WINDOWS (FIRST STORY)	10	10
WINDOWS (SECOND STORY)	REFER TO WALL TYPE	REFER TO WALL TYPE
AIR INTAKES	10	10
FIRE ESCAPES	20	20

NOTES:

- ADEQUATE PASSAGEWAYS TO ACCOMMODATE CRANES, LINE TRUCKS, OR OTHER NECESSARY LIFTING AND HAULING EQUIPMENT SHALL BE PROVIDED TO ALLOW FOR MAINTENANCE, OPERATION, OR REPLACEMENT.
- DISTANCES ARE FROM THE PAD OR TRANSFORMER CASING, WHICHEVER IS CLOSER TO THE OBJECT IN QUESTION.
- IF THE BUILDING HAS AN OVERHANG, THE DISTANCE IS MEASURED FROM THE OUTSIDE EDGE OF THE OVERHANG.
- OUTSIDE WALKWAYS OR STAIRS ATTACHED TO THE BUILDING SHALL BE CONSIDERED AS PART OF THE BUILDING.
- IF A BUILDING IS CONSTRUCTED OF BOTH COMBUSTIBLE AND NON-COMBUSTIBLE MATERIALS, NO PART OF THE PAD-MOUNTED TRANSFORMER CAN BE WITHIN THE ALLOWABLE DISTANCE FOR THE COMBUSTIBLE MATERIALS IN ANY DIRECTION.
- DISTANCES LESS THAN THOSE SPECIFIED MAY BE ALLOWED IF APPROVED BY THE APPROPRIATE CODE ENFORCEMENT AUTHORITY, BUT IN NO CASE SHALL DISTANCES TO A BUILDING BE LESS THAN 3 FT. THIS MAY REQUIRE ALTERNATE MEANS OF FIRE PROTECTION INCLUDING FIRE BARRIERS, FIRE RATED WALLS, OIL CONTAINMENT MEANS, OR OTHER APPROVED MEASURES.
- FIRE-RATED WALLS AROUND TRANSFORMERS MUST BE A MINIMUM OF 1'-0" ABOVE THE ANTICIPATED HEIGHT OF THE INSTALLED TRANSFORMER. NO WALL, WHETHER FOR FIRE PROTECTION OR AESTHETIC PURPOSES, CAN BE HIGH ENOUGH TO PREVENT DUKE ENERGY'S INSTALLATION AND FUTURE MAINTENANCE OF THE TRANSFORMER WITH STANDARD EQUIPMENT AND LIFTING DEVICES AS DETERMINED BY DUKE ENERGY.
- FINAL GRADE AT THE LOCATION OF THE PAD-MOUNTED TRANSFORMER SHALL PROVIDE FOR MINERAL OIL TO DRAIN FROM THE BUILDING. OTHERWISE, AN OIL CONTAINMENT MEANS IS REQUIRED.
- CLEARANCES LISTED ARE DUKE ENERGY MINIMUM REQUIREMENTS. THE LOCAL AUTHORITY HAVING JURISDICTION (AAH) MAY HAVE REQUIREMENTS THAT ARE MORE STRINGENT. IT SHALL BE THE CUSTOMER'S RESPONSIBILITY TO CONFORM TO ALL LOCAL BUILDING CODES, INSURANCE REGULATIONS, OR ORDINANCES AFFECTING THE TRANSFORMER LOCATION.

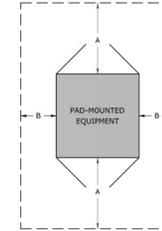
3				
2				
1				
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REVISION	BY	CHK'D	APPR.	

PAD-MOUNTED TRANSFORMER CLEARANCES
FROM BUILDINGS



DEC	DEM	DEP	DEF
X	X	X	X

36.01-101



MINIMUM CLEAR WORKING SPACE AROUND PAD-MOUNTED EQUIPMENT		
TYPE OF PAD-MOUNTED EQUIPMENT	DIMENSION A DOOR SIDES (FT)	DIMENSION B (FT)
TRANSFORMERS (SEE NOTE 4)	10	3
SWITCHGEAR (SEE NOTE 3)	10	5
RECLOSERS, PRIMARY METERS, ETC.	10	3

MISCELLANEOUS CLEARANCES	
TYPE OF EQUIPMENT	CLEARANCE IN ANY DIRECTION (FT)
FUEL OR GAS DISPENSERS	20
CONTAINERS STORING FLAMMABLE LIQUID OR GAS	10
CUSTOMER-OWNED GENERATORS OR TRANSFORMERS	10
FIRE HYDRANTS	SEE NOTE 8
NATURAL GAS METERS	3

NOTES:

- ADEQUATE PASSAGEWAYS TO ACCOMMODATE CRANES, LINE TRUCKS, OR OTHER NECESSARY LIFTING AND HAULING EQUIPMENT SHALL BE PROVIDED TO ALLOW FOR MAINTENANCE, OPERATION, OR REPLACEMENT.
- DISTANCES ARE FROM THE PAD OR SURFACE MOUNTED EQUIPMENT, WHICHEVER IS CLOSER TO THE OBJECT IN QUESTION.
- A MINIMUM CLEAR WORKING SPACE OF 5 FT MUST BE MAINTAINED FROM EACH NON-DOOR SIDE OF THE EQUIPMENT (TO ACCOMMODATE CONTROL CABINETS, ETC.).
- WHERE A METER IS MOUNTED TO A TRANSFORMER, A CLEAR SPACE AROUND THE METER OF AT LEAST 3 FT WIDE, 4 FT DEEP, AND 8 FT HIGH MUST BE PROVIDED AND ALWAYS AVAILABLE FOR READING, INSPECTING, TESTING, AND MAINTENANCE OPERATIONS.
- DISTANCES LESS THAN THOSE SPECIFIED MAY BE ALLOWED IF APPROVED BY THE APPROPRIATE CODE ENFORCEMENT AUTHORITY. THIS MAY REQUIRE ALTERNATE MEANS OF FIRE PROTECTION INCLUDING FIRE BARRIERS, FIRE RATED WALLS, SPRINKLER SYSTEMS, OIL CONTAINMENT MEANS, OR OTHER APPROVED MEASURES.
- IT SHALL BE THE CUSTOMER'S RESPONSIBILITY TO CONFORM TO ALL LOCAL BUILDING CODES, INSURANCE REGULATIONS, OR ORDINANCES AFFECTING THE EQUIPMENT LOCATION.
- FOR INSTALLATIONS SUBJECT TO REGULAR VEHICLE TRAFFIC, SEE DWG. 36.01-105.
- 7.5 FT. IN FLORIDA, 4 FT. ELSEWHERE. MAY BE REDUCED TO 3 FT BY AGREEMENT WITH LOCAL FIRE AUTHORITY.

3				
2				
1				
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REVISION	BY	CHK'D	APPR.	

PAD-MOUNTED EQUIPMENT WORKING SPACE
AND MISCELLANEOUS CLEARANCES



DEC	DEM	DEP	DEF
X	X	X	X

36.01-103

GENERAL NOTES:

- ALL CONTRACTORS AND SUB-CONTRACTORS SHALL REVIEW ALL DRAWINGS FOR WORK PERFORMED BY THAT CONTRACTOR.
- ALL WALLS INDICATED ON THE ARCHITECTURAL PLANS AS FIRE RATED SHALL BE PROPERLY FIRE CAULKED FOR ALL PENETRATIONS.

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