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POST BID ADDENDUM #1

Date: November 08, 2019

Waverly F. Akins Office Building and Wake County Courthouse

Project Title: Emergency Power Replacement

RFP/Bid No. 19-067

Owner: County of Wake

HDM

Project No.: 18001.05

The following items modify, add, or delete from the construction documents, plans and specifications for this project dated August 30, 2019.

This addendum consists of 16 sheets. 1 (8.5 x 11) sheet and 15 (36 x 24) sheets.

Specifications:

 Specification 16231 – "Packaged Engine Generators" – Part 2, Section 2.3, Paragraph H.1 – change the 600 kW to 400 kW minimum capacity.

Drawings:

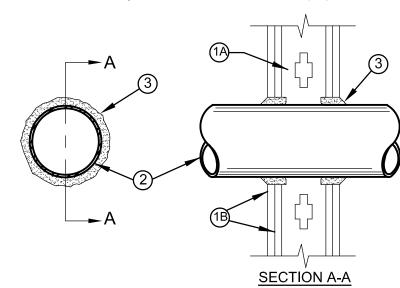
- 1. Drawing M001 "Generator Schedule" WCCH Generator change the genset rating to 400.
- 2. Drawings E001, E002, E003, E004, E005, E006, E100, E101, E200, E201, E202, E203, E204, E205, and E206 delete and replace with attached.

End of Post Bid Addendum

	GENE	RATOR	INFORMATION
GENERATOR NAME	CAPACITY (kW)	BREAKER #/(AMPS)	AREA SERVED
		#1@ 400	WCCH ELEVATORS
WCCH GENERATOR	400	#2@ 400	WCCH STAIR PRESS/EXIST EOC
#1	400	#3@ 400	FUTURE EOC
WCOB		#1@ 400	WCOB DATA CENTER
GENERATOR #3	300	#2@ 400	FUTURE EOC
(DATA CENTER)			
CENTER)			
WCOB		#1@ 400	WCOB EMERG POWER, ELEVATORS
GENERATOR #2	300	#2@ 400	WCOB DATA CENTER (BACK-UP)
EMERGENCY			
POWER)			

System No.W-L-1001

June 15, 2005 F Ratings - 1, 2, 3 and 4 Hr (See Items 2 and 3) T Ratings - 0, 1, 2, 3, and 4 Hr (See Item 3) L Rating At Ambient — less than 1 CFM/sq ft L Rating At 400 F - less than 1 CFM/sq f



1. Wall Assembly — The 1, 2, 3 or 4 hr fire—rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs (max 2 hr fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC. B. Gypsum Board* - Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm).

2. Through Penetrant - One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (0 mm) (point contact) to max 2 in. (51 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing

may be used: A. Steel Pipe - Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe. B. Iron Pipe — Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe. C. Conduit - Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in. (102 mm) diam (or

smaller) steel electrical metallic tubina D. Copper Tubing - Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing E. Copper Pipe - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe. F. Through Penetrating Product* - Flexible Metal Piping - The following types of steel flexible metal gas

1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

OMEGA FLEX INC

2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

TITEFLEX CORP A BUNDY CO

3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

3. Fill, Void or Cavity Material* - Caulk or Sealant - Min 5/8. 1-1/4,1-7/8 and 2-1/2 in. (16, 32, 48 and 64 mm) thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in

which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit Diam in. (mm)	F Rating Hr	T Rating Hr
1 (25)	1 or 2	0+, 1 or 2
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

+When copper pipe is used, T Rating is 0 hr.

3M COMPANY - CP 25WB+ caulk or FB-3000 WT sealant.

*Bearing the UL Classification Marking

FIRE SEAL DETAIL - UNINSULATED

PHASING PLAN

BUILD A FIRE RATED ROOM FOR WCCH GENERATOR. PROVIDE WCCH GENERATOR.

PROVIDE FEEDER TO WCCH NORTH GENERATOR AUTOMATIC TRANSFER SWITCH. PROVIDE FEEDER TO WCCH SOUTH GENERATOR AUTOMATIC TRANSFER SWITCH. DEMOLISH EXISTING WCCH NORTH GENERATOR.

DEMOLISH EXISTING WCCH SOUTH GENERATOR. PROVIDE PANEL MDP IN WCOB.

PROVIDE WCOB ATS-1, WCOB ATS-2 AND WCOB ATS-3. PROVIDE FEEDER TO WCOB ATS-2 AND WCOB ATS-3 FROM PANEL MDP.

PROVIDE TRANSFORMERS T-2 AND T-3.

PROVIDE PANELS OBEH AND OBEL. PROVIDE PANEL ERHE

PROVIDE FEEDER FOR PANEL ERHE FROM PANEL OBEH. PROVIDE TRANSFORMERS T-ERA.

PROVIDE TRANSFORMER T-ERB AND DISCONNECT SWITCH DS-ERB.

PROVIDE FEEDER TO EXISTING BREAKERS FOR ELEVATORS #5 AND #6 FROM TRANSFORMER T-ERB. PROVIDE FEEDER TO EXISTING PANEL ELEVEQ FROM TRANSFORMER T-ERA.

PROVIDE PANEL PHHE. PROVIDE TRANSFORMERS T-PHA AND T-PHB.

PROVIDE PANEL PHLE.

PROVIDE PANEL PHEL PROVIDE FEEDER FOR PANEL PHHE FROM PANEL OBEH.

PROVIDE FEEDERS TO EXISTING BREAKERS FOR ELEVATORS 1 THROUGH 4 FROM PANEL PHEL. PROVIDE FEEDER TO EXISTING PANEL ELEVEQ FROM PANEL PHLE.

PROVIDE FEEDER TO EXISTING PANEL 14E FROM PANEL PHLE. PROVIDE CIRCUITS TO GRAPHIC COMPUTERS ON 15 FLOOR FROM PANEL PHLE.

PROVIDE FEEDER TO JUNCTION BOX FOR EXISTING PANELS E1GLE AND EM3LE FROM PANEL OBEL. PROVIDE FEEDER TO EXISTING PANEL EMG FROM PANEL OBEL

PROVIDE FEEDER TO EXISTING PANEL EM FROM PANEL OBEL. PROVIDE FEEDER TO EXISTING DISCONNECT SERVING SEC UPS FROM PANEL OBEL.

PROVIDE FEEDER TO EXISTING EXISTING DISCONNECT SWITCH FEEDING PANEL E1-MD FROM PANEL OBEL. PROVIDE CIRCUITS TO WCOB FIRE PUMP CONTROLLER AND JACKET HEATER FROM PANEL OBEL. PROVIDE TEMPORARY FEEDER TO ATS-1 FROM A TEMPORARY GENERATOR.

DEMOLISH WCOB EMERGENCY POWER GENERATOR (GENERAC). DEMOLISH WCOB EMERGENCY POWER ATS (GENERAC).

DEMOLISH WCOB EMERGENCY POWER PANEL EGPE. PROVIDE NEW WCOB EMERGENCY POWER GENERATOR.

PROVIDE FEEDER TO WCOB ATS-3 FROM NEW WCOB EMERGENCY GENERATOR. PROVIDE FEEDER TO WCOB ATS-1 FROM NEW WCOB EMERGENCY GENERATOR.

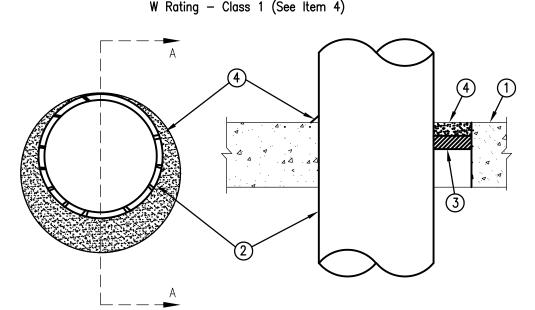
PROVIDE FEEDER FROM TRANSFORMER T-3 TO EXISTING DATA CENTER GENERATOR ATS LOCATION IN WCOB BASEMENT. REMOVE DATA CENTER GENERATOR ATS AND USE ATS ENCLOSURE AS A JUNCTION BOX TO CONNECT NEW FEEDER FROM TRANSFORMER T-3 TO EXISTING FEEDER SERVING EXISTING PANEL EM1 IN DATA CENTER. DEMOLISH WCOB DATA CENTER GENERATOR. PROVIDE WCOB DATA CENTER GENERATOR.

^^^^^

PROVIDE FEEDER TO WCOB ATS-3 FROM WCOB DATA CENTER GENERATOR.

System No.C-AJ-1001 March 05, 2007 F Ratings - 3Hr

T Ratings — 0



SECTION "A"

Floor or Wall Assembly - Min 4-1/2 in. (114 mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of circular through opening is 32-1/2 in. (826 mm). See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

1A. Steel Sleeve (Optional, not shown) - Nom 12 in. (305 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe sleeve cast into concrete floor or wall. Sleeve to be flush with or project max 2 in. (51 mm) from top surface of floor or from both surfaces of wall. As an alternate, nom 12 in. (305 mm) diam (or smaller) sleeve fabricated from nom 0.019 in. (0.48 mm) thick galv steel cast or grouted into floor or wall assembly flush with floor or wall surfaces.

2. Through Penetrant - One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (0 mm, point contact) to max 1-3/8in. (35 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. Steel Pipe - Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe. A1. Iron Pipe - Nom 30 in. (762 mm) diam (or smaller) ductile iron pressure pipe.

B. Conduit - Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit C. Conduit - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing

3. Packing Material - Polyethylene backer rod or nom 1 in. (25 mm) thickness of tightly-packed ceramic (alumina silica) fiber blanket, mineral wool batt or glass fiber insulation material used as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of solid concrete or concrete block wall as required to accommodate the required thickness of caulk fill material (Item 4). As an alternate when max pipe size is 10 in. (254 mm) diam and when max annular space is 1 in. (25 mm), a min 1 in. (25 mm) thickness of tightly-packed ceramic fiber blanket or mineral wool batt packing material may be recessed min 1/2 in. (13 mm) from bottom surface of floor or from either side of solid concrete wall.

4. Fill, Void or Cavity Material* - Caulk or Sealant - Applied to fill the annular space to the min thickness shown in the following table:

Max Pipe Diam in. (mm)	Max Annular Space In. (mm)	Packing Mtl Type (a)	Min Caulk Thkns In. (mm)
10 (254)	1 (25)	BR,CF,GForMW	1/2 (13) (b)
10 (254)	1 (25)	GForMW	1/2 (13) (c)
10 (254)	1 (25)	GForMW	1/2 (13) (c)

(a) BR = Polyethylene backer rod. CF = Ceramic fiber blanket. GF = Glass fiber insulation.

MW = Mineral-wool batt.

(b) Caulk installed flush with top surface of floor or both surfaces of wall. (c) Caulk installed flush with bottom surface of floor or one surface of solid (non-concrete block) wall.

3M COMPANY - CP 25WB+ or FB-3000 WT (Note: W Rating applies only when FB-3000 WT is used on top surface of floor and when it laps onto concrete for sleeved opening.)

*Bearing the UL Classification Marking

FIRE SEAL DETAIL - UNINSULATED

GENERAL DEMOLITION NOTES - ELECTRICAL

DRAWINGS ARE BASED ON EXISTING PLANS AND/OR FIELD INVESTIGATION WITHOUT DEMOLITION. CONTRACTOR SHALL VISIT THE BUILDING, FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS AND

EXAMINE ALL RELATED DRAWINGS TO AVOID CONFLICTS. 2. ALL EXISTING ELECTRICAL WORK SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO BEGINNING ANY WORK. THE CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN HIS FIELD

INVESTIGATION AND THESE DRAWINGS. CONTRACTOR SHALL EXERCISE CARE IN REMOVING; DEMOLITION ITEMS, ITEMS TO BE SALVAGED AND

ITEMS TO BE RELOCATED. CONTRACTOR SHALL REPAIR OR REPLACE AT HIS COST ANY DAMAGE CAUSED TO EXISTING CONSTRUCTION AND EQUIPMENT TO REMAIN.

4. ALL MATERIALS REMOVED UNDER DEMOLITION (NOT TO BE RELOCATED OR TURNED OVER TO OWNER) SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.

ALL EXISTING CONDUIT THAT WILL NOT BE REUSED SHALL BE REMOVED WHERE IT WILL BE EXPOSED AFTER COMPLETION OF THE CONSTRUCTION. CONDUIT MAY BE ABANDONED IN WALLS ONLY. CONTRACTOR SHALL REMOVE ALL WIRING FROM ABANDONED CONDUITS, DISCONNECT FROM ALL POWER SOURCES AND PROVIDE BLANK PLATES ON ALL ABANDONED OUTLETS. CUT-OFF ABANDONED CONDUIT (2") BELOW FINISHED FLOOR. CUT AND PATCH TO MATCH EXISTING FINISH.

MAINTAIN CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN OR PORTIONS THEREOF AFFECTED BY NEW

MAINTAIN EXISTING SYSTEMS INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING SELECTIVE DEMOLITION OPERATIONS.

CONTRACTOR SHALL COORDINATE ALL INTERRUPTION OF SYSTEMS SERVICES.

9. PROVIDE ALL ELECTRICAL DEMOLITION WORK NECESSARY TO INSTALL NEW WORK. CONTRACTOR SHALL REROUTE AND RECONNECT ANY CIRCUITS THAT WILL REMAIN IN USE BUT INTERFERES WITH NEW

10. CONTRACTOR SHALL REMOVE ALL STARTERS, DISCONNECT SWITCHES AND ASSOCIATED CONDUIT AND WIRING FOR ALL EQUIPMENT TO BE REMOVED BY OTHERS.

11. CONTRACTOR SHALL COORDINATE THE OWNER'S CONTINUING OCCUPANCY OF PORTIONS OF EXISTING BUILDING, PARTIAL OCCUPANCY OF COMPLETED WORK AND THE USE OF ELEVATORS AND STAIRS.

12. CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER IMMEDIATELY IF SUSPECTED HAZARDOUS MATERIALS ARE ENCOUNTERED.

13. CONTRACTOR SHALL PROVIDE TEMPORARY WEATHER PROTECTION, DURING SELECTIVE DEMOLITION OF EXISTING CONSTRUCTION ON EXTERIOR SURFACES AND NEW CONSTRUCTION, TO PREVENT WATER LEAKAGE AND DAMAGE TO STRUCTURE AND INTERIOR AREAS.

14. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AND SUPPORTS AS REQUIRED TO PRESERVE STABILITY AND PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF CONSTRUCTION BEING DEMOLISHED. STRENGTHEN OR ADD NEW SUPPORTS WHEN REQUIRED DURING PROGRESS OF SELECTIVE DEMOLITION.

15. NEATLY CUT OPENINGS AND HOLES PLUMB, SQUARE AND TRUE TO DIMENSIONS REQUIRED. USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMAIN OR ADJOINING CONSTRUCTION. TO MINIMIZE DISTURBANCE OF ADJACENT SURFACES. USE HAND TOOLS OR SMALL POWER TOOLS DESIGNED FOR SAWING OR GRINDING, NOT HAMMERING AND CHOPPING. TEMPORARILY COVER OPENINGS

16. DO NOT USE CUTTING TORCHES UNTIL WORK AREA IS CLEARED OF FLAMMABLE MATERIALS. AT CONCEALED SPACES, SUCH AS DUCT AND PIPE INTERIORS, VERIFY CONDITION AND CONTENTS OF HIDDEN SPACE BEFORE STARTING FLAME-CUTTING OPERATIONS. MAINTAIN FIRE WATCH AND PORTABLE FIRE-SUPPRESSION DEVICES DURING FLAME-CUTTING OPERATIONS.

17. MAINTAIN ADEQUATE VENTILATION WHEN USING CUTTING TORCHES.

REVISION 1 CHANGES

CONDUIT AND WIRING ROUTING SHOWN SPACED APART FOR CLARITY.

COORDINATE EXACT ROUTING WITH ENGINEER. 2. E003 PANEL EM1 TO UPS-1 EXISTING TO REMAIN. E004 EXISTING AND NEW EQUIPMENT SCHEDULES UPDATED AS MARKED.

4. E004 WCOB ATS-1 CONNECTION TO WCCH SWITCHBOARD REMOVED FROM E004 WCOB UPS-1 GENERATOR AND ASSOCIATED FEEDERS/CONNECTIONS

MOVED TO SHEET 005. 6. E004 WCOB EMERGENCY POWER GENERATOR AND ASSOCIATED

FEEDERS/CONNECTIONS MOVED TO SHEET 005. 7. E004 WCOB ATS-1 AND ASSOCIATED FEEDERS/CONNECTIONS MOVED TO

8. E004 WCOB ATS-2 AND ASSOCIATED FEEDERS/CONNECTIONS MOVED TO SHFFT 005

9. E004 PANEL OBEH AND ASSOCIATED FEEDERS/CONNECTIONS MOVED TO SHEET 10. E004 TRANSFORMER T-2 AND ASSOCIATED FEEDERS/CONNECTIONS MOVED TO

SHEET 005. 11. E004 PANEL OBEL AND ASSOCIATED FEEDERS/CONNECTIONS MOVED TO SHEET

12. E004 WCOB ATS-3 AND ASSOCIATED FEEDERS/CONNECTIONS MOVED TO SHEET 005.

13. E004 TRANSFORMER T-3 AND ASSOCIATED FEEDERS/CONNECTIONS MOVED TO SHEET 005.

14. E004 DISCONNECT SWITCH DS-3 AND ASSOCIATED FEEDERS/CONNECTIONS MOVED TO SHEET 005. 15. E004 WCCH GENERATOR" RENAMED TO "WCCH GENERATOR #1".

16. E005 EXISTING AND NEW EQUIPMENT SCHEDULES UPDATED "AS MARKED. 17. E005 UPS-1 CONNECTION (FEEDER 25) TO DS-1 REMOVED FROM PROJECT. 18. E005 FEEDER 33 REMOVED FROM PROJECT.

19. EOO5 PANEL DC AND ASSOCIATED FEEDERS/CONNECTIONS REMOVED FROM 20. E005 TRANSFORMER T-1 AND ASSOCIATED FEEDERS/CONNECTIONS REMOVED

FROM PROJECT. 21. E005 DISCONNECT SWITCH DS-1 AND ASSOCIATED FEEDERS/CONNECTIONS REMOVED FROM PROJECT.

22. EOO5 PANEL DCA AND ASSOCIATED FEEDERS/CONNECTIONS REMOVED FROM

23. E005 "WCOB UPS-1 GENERATOR" RENAMED TO "WCOB GENERATOR #2". 24. E005 "WCOB EMERGENCY POWER GENERATOR" RENAMED TO "WCOB GENERATOR #3".

25. E005 WCOB ATS-1 EMERGENCY SIDE CONNECTS TO WCOB GENERATOR #3. 26. E005 WCOB ATS-1 LOAD SIDE CONNECTS TO PANEL OBEH. 27. E005 WCOB ATS-1 NORMAL SIDE CONNECTS TO PANEL MDP.

28. E005 WCOB ATS-2 EMERGENCY SIDE CONNECTS TO WCOB GENERATOR #3. 29. E005 WCOB ATS-2 LOAD SIDE CONNECTS TO TRANSFORMER T-3. 30. E005 WCOB ATS-2 NORMAL SIDE CONNECTS TO WCOB ATS-3 LOAD SIDE.

31. E005 WCOB ATS-3 EMERGENCY SIDE CONNECTS TO WCOB GENERATOR #2. 32. E005 WCOB ATS-3 LOAD SIDE CONNECTS TO WCOB ATS #2 NORMAL SIDE.

33. E005 WCOB ATS-3 NORMAL SIDE CONNECTS TO PANEL MDP. 34. E006 EXIST PANELBOARD SCHEDULE LPL-PJ ADDED. 35. E101 36" x 36" x 6" PULLBOX REMOVED FROM PROJECT.

36. E200 WCCH GENERATOR EQUIPMENT CONNECTIONS TO OBEL REMOVED. 37. E200 WCCH GENERATOR EQUIPMENT CONNECTIONS ADDED TO EXIST PANEL

LEGEND

LEGEND NOTES:

1. ALL DARK AND DASHED SYMBOLS INDICATE EQUIPMENT AND/OR DEVICES TO BE REMOVED OR LOCATED

UNDERGROUND AS NOTED. 2. ALL DARK AND SOLID SYMBOLS INDICATE NEW EQUIPMENT AND/OR DEVICES TO BE PROVIDED BY ELECTRICAL

CONTRACTOR UNLESS NOTED OTHERWISE.

MOUNTING HEIGHTS GIVEN BELOW SHALL BE FOLLOWED

UNLESS NOTED ON THE FLOOR PLANS, SCHEDULES OR

SHOWN DIFFERENT IN THE ARCHITECTURAL ELEVATIONS. ALL

3. ALL LIGHT AND SOLID SYMBOLS INDICATE EQUIPMENT AND/OR DEVICES THAT ARE EXISTING TO REMAIN.

4. ALL LIGHT AND DASHED SYMBOLS INDICATE EQUIPMENT AND/OR DEVICES THAT WILL BE ADDED IN THE FUTURE.

SINGLE POLE SWITCH, 20A, 48" AFF.

HEIGHTS ARE TO CENTER OF THE DEVICE.

DUPLEX CONVENIENCE RECEPTACLE, 20A, 125 VOLTS, 3 WIRE GROUNDING TYPE, 4" SQUARE BOX WITH SINGLE GANG RING AND COVER UNLESS NOTED OTHERWISE, 18" AFF EXCEPT AS NOTED.

EQUIPMENT CONNECTION

JUNCTION BOX POINT OF DEMOLITION LIMIT

POINT OF CONNECTION

REVISION DESIGNATION DEMOLITION NOTE DESIGNATION

NEW WORK NOTE DESIGNATION

GENERAL NOTE

EQUIPMENT NOTE DESIGNATION

BRANCH CIRCUIT CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING. WIRE SIZE #12 UNLESS NOTED OTHERWISE.

INDICATES CIRCUIT HOMERUN TO PANEL. LETTER & NUMBERS INDICATE PANEL DESIGNATION & CIRCUIT BREAKER NUMBER.

CONDUIT RISER DOWN

DISCONNECT SWITCH FUSIBLE OR NON-FUSIBLE, 600V, 3 POLE SWITCH & FUSE (IF ANY) AS NOTED.

REMOTE ANNUNCIATOR

-----O CONDUIT RISER UP

TRANSFORMER, KVA AS NOTED

PANELBOARD, 120/208 VOLTS, SEE SCHEDULE PANELBOARD, 277/480 VOLTS, SEE SCHEDULE

WIREWAY W/W

ENCLOSED CIRCUIT BREAKER

2 HOUR FIRE RATED BARRIER AMPERE(S) ABOVE FINISHED FLOOR AMPERE INTERRUPTING CAPACITY ABOVE FINISHED GRADE AMERICAN NATIONAL STANDARDS INSTITUTE

AUTOMATIC TRANSFER SWITCH BKR BREAKER CONDUIT CKT CIRCUIT

CURRENT TRANSDUCER

DIAMETER EXHAUST FAN ESTIMATE ELEVATOR FIRE ALARM CONTROL PANEL

FLA FULL LOAD AMPS GENERATOR GFCI GROUND-FAULT CIRCUIT INTERRUPTER

THOUSAND AMPERE INTERRUPTING CAPACITY THOUSAND CIRCULAR MILS **KCMIL** THOUSAND VOLT AMPERES KILOWATT

MAXIMUM MINIMUM CIRCUIT AMPACITY MAIN CIRCUIT BREAKER **MEZZANINE** MINIMUM

MAIN LUGS ONLY NATIONAL ELECTRICAL CODE (NFPA 70) NATIONAL ELECTRICAL MANUFACTURES ASSOCIATION NFPA

NATIONAL FIRE PROTECTION ASSOCIATION NATIONALLY RECOGNIZED TESTING LABORATORIES

PENTHOUSE PANEL **PRIMARY** RECEPTACLE SECONDARY

NO

VOLTAGE TRANSDUCER WATT(S) OR WIRE

SEAL 18043 1. MOINEER

HDMA#18001.05

08/30/

JSE ENT BUILDING THOUS ACEME

OFFIC

AKINS

COURT REF \mathbf{C}_{∞} POWEF TTEVILLE LEIGH, NO щΖ COUNT WAKE CORENCY FINANCE PARTIES 1336 FAYETT

WAVERLY EMERGE 3361 AND

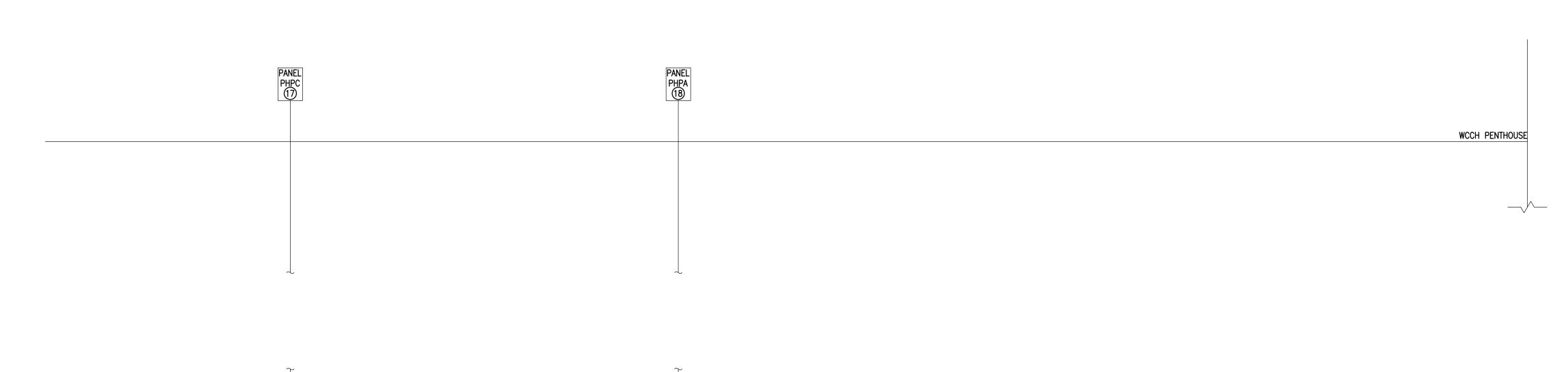
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DATE: 08/30/19 JOB NUMBER: 18001.05 DRAWN: RCM DESIGNED: RTT

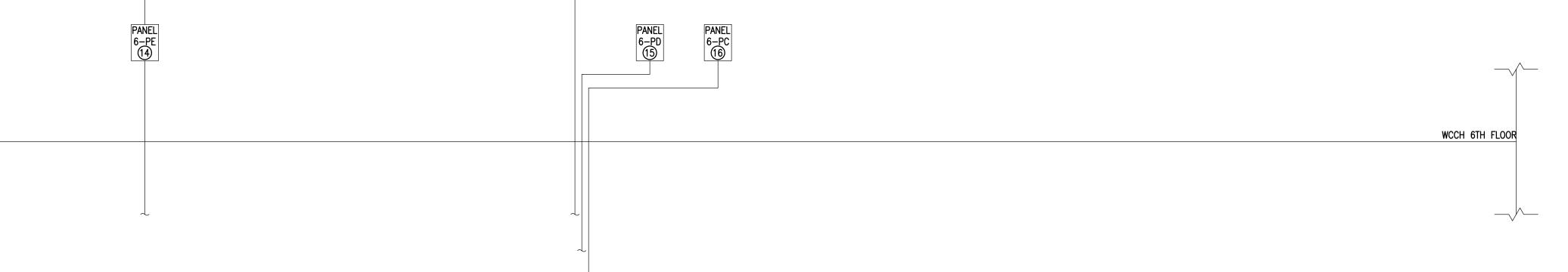
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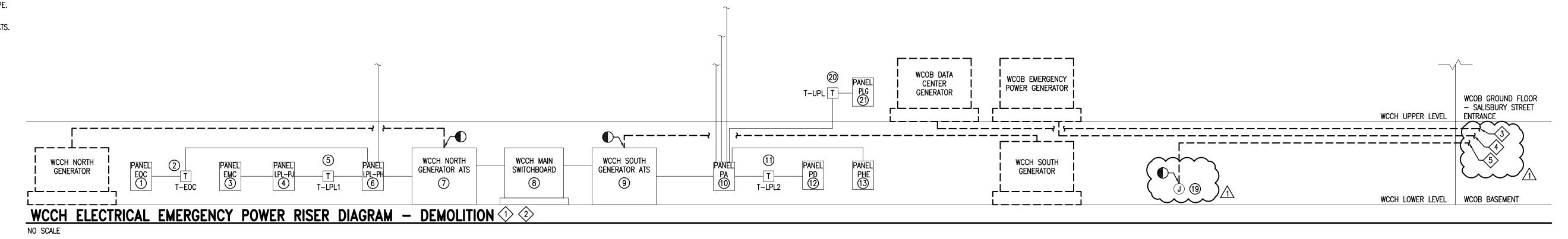


E	XISTING E	QUIPMENT SCHEDULE
MARK	NAME	DESCRIPTION
1	PANEL EOC	255A MLO, 120/208V
2	TRANSFORMER T-EOC	75KVA, 480V PRI, 120/208V SEC
3	PANEL EMC	125A MLO, 120/208V
4	PANEL LPL-PJ	100A MCB, 120/208V
5	TRANSFORMER T-LPL1	30KVA, 480V PRI, 120/208V SEC
6	PANEL LPL-PH	600A MCB, 277/480V
7	WCCH NORTH GENERATOR ATS	600A, 277/480V
8	WCCH MAIN SWITCHBOARD	4,000A 277/480V
9	WCCH SOUTH GENERATOR ATS	400A, 277/480V
10	PANEL PA	400A MLO, 277/480V
11)	TRANSFORMER T-LPL2	15KVA, 480V PRI, 120/208V SEC
12	PANEL PD	60A MCB, 120/208V
(13)	PANEL PHE	100A MLO, 277/480V
(14)	PANEL 6-PE	600A MLO, 277/480V
(15)	PANEL 6-PD	225A MLO, 277/480V
16	PANEL 6-PC	225A MLO, 277/480V
17	PANEL PHPC	300A MCB, 277/480V
(18)	PANEL PHPA	225A MLO, 277/480V
19	JUNCTION BOX CONNECTION	WCOB FIRE PUMP CONTROLLER AND JACKET HEATER CONNECTION
20	TRANSFORMER T-UPL	15KVA, 480V PRI, 120/208V SEC
21)	PANEL PLG	40A MCB, 120/208V



GENERAL NOTES

- 1 SEE FLOOR PLANS FOR DEMOLITION WORK. SEE PHASING PLAN FOR WORK SEQUENCE.
- 2 ALL EQUIPMENT EXISTING TO REMAIN, UNLESS OTHERWISE INDICATED.
- 3 FROM WCOB EMERGENCY POWER PANEL EGPE.
- 4 TO WCOB EMERGENCY POWER GENERATOR ATS.
- 5 TO WCOB DATA CENTER GENERATOR ATS.



THOUSE ASSOCIATED Professional Engineering

WAVERLY F AKINS OFFICE BUILDING
AND WAKE COUNTY COURTHOUSE
EMERGENCY POWER REPLACEMENT
336 FAYETTEVILLE STREET MALL
RALEIGH, NC 27602
S IN THESE PLANS. THESE PLANS ARE NOT TO BE REPRODUCED, CHANGED IN ANY FORM DR MANNER WHATS

DATE:
DESCRIPTION:
1-08-19 ANDENDUM,
SHEETS CHANGED:
E001-E006, E100,
E101, E200-E206

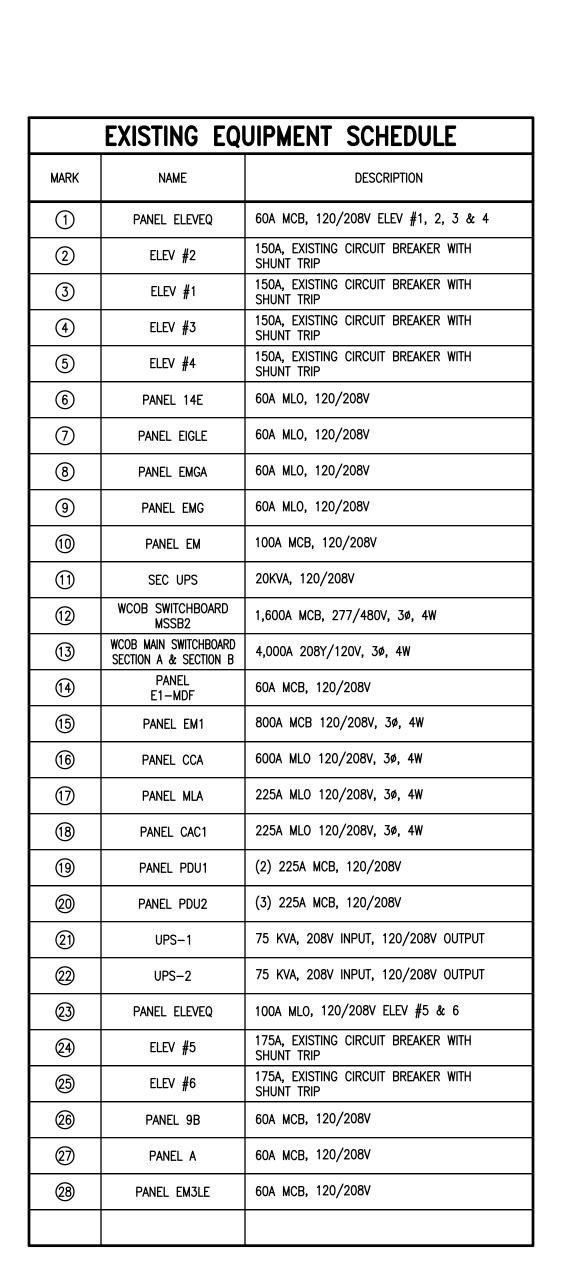
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JOB NUMBER:
DRAWN:
DESIGNED:
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E002

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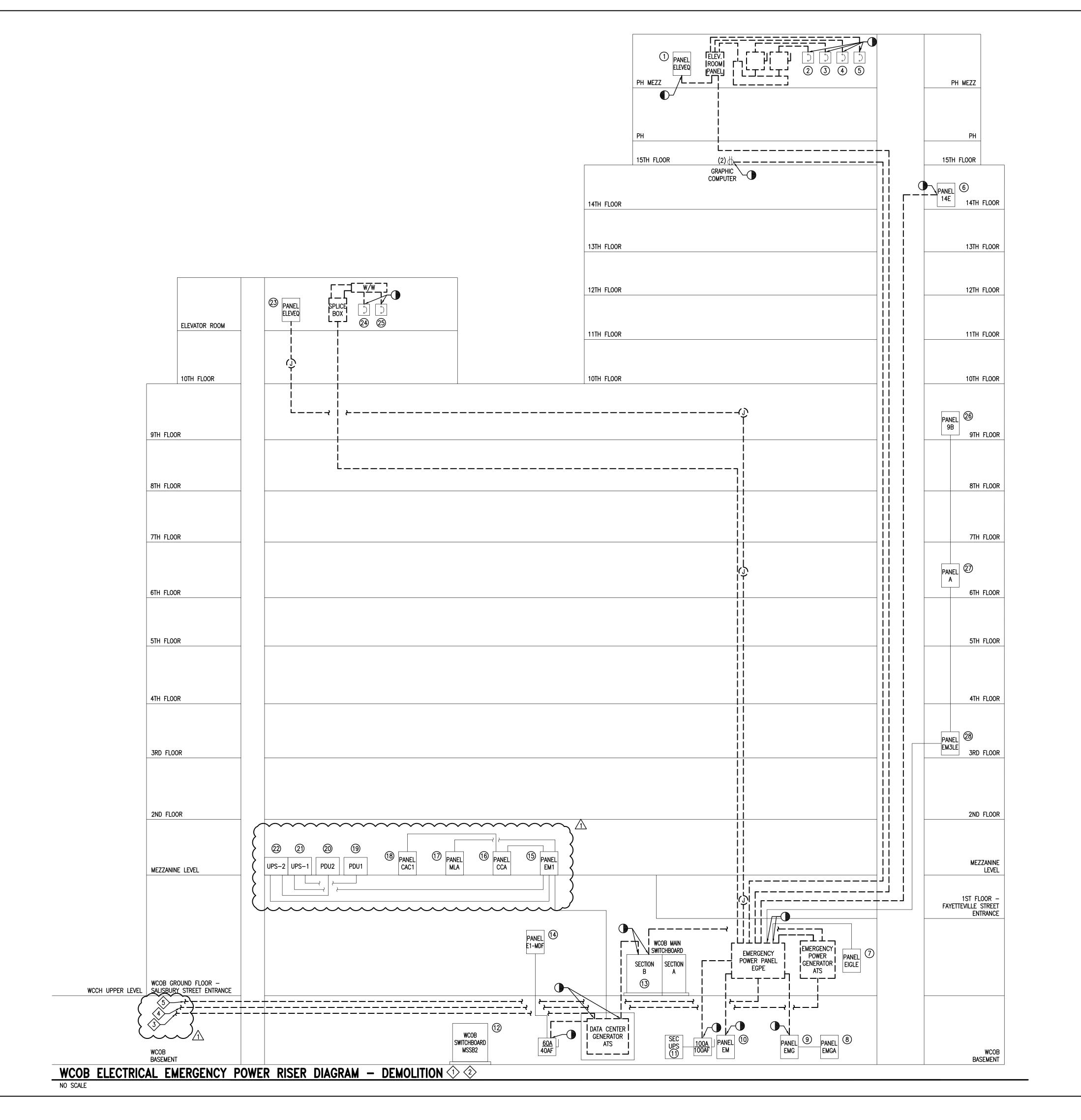
RCM RTT RTT

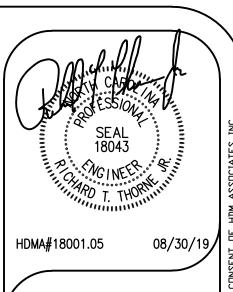
N:\2018\18001.05\REV\REV1.10-16-19\18001.05-08E002R1.dwg, 11/11/2019 11:31:46 AM, Romald



GENERAL NOTES

- 1> SEE FLOOR PLANS FOR DEMOLITION WORK. SEE PHASING PLAN FOR WORK SEQUENCE.
- 2 ALL EQUIPMENT EXISTING TO REMAIN, UNLESS OTHERWISE INDICATED.
- 3 TO FIRE PUMP CONTROLLER AND JACKET HEATER.
- 4 TO WCOB EMERGENCY POWER GENERATOR.
- 5 TO WCOB DATA CENTER GENERATOR.



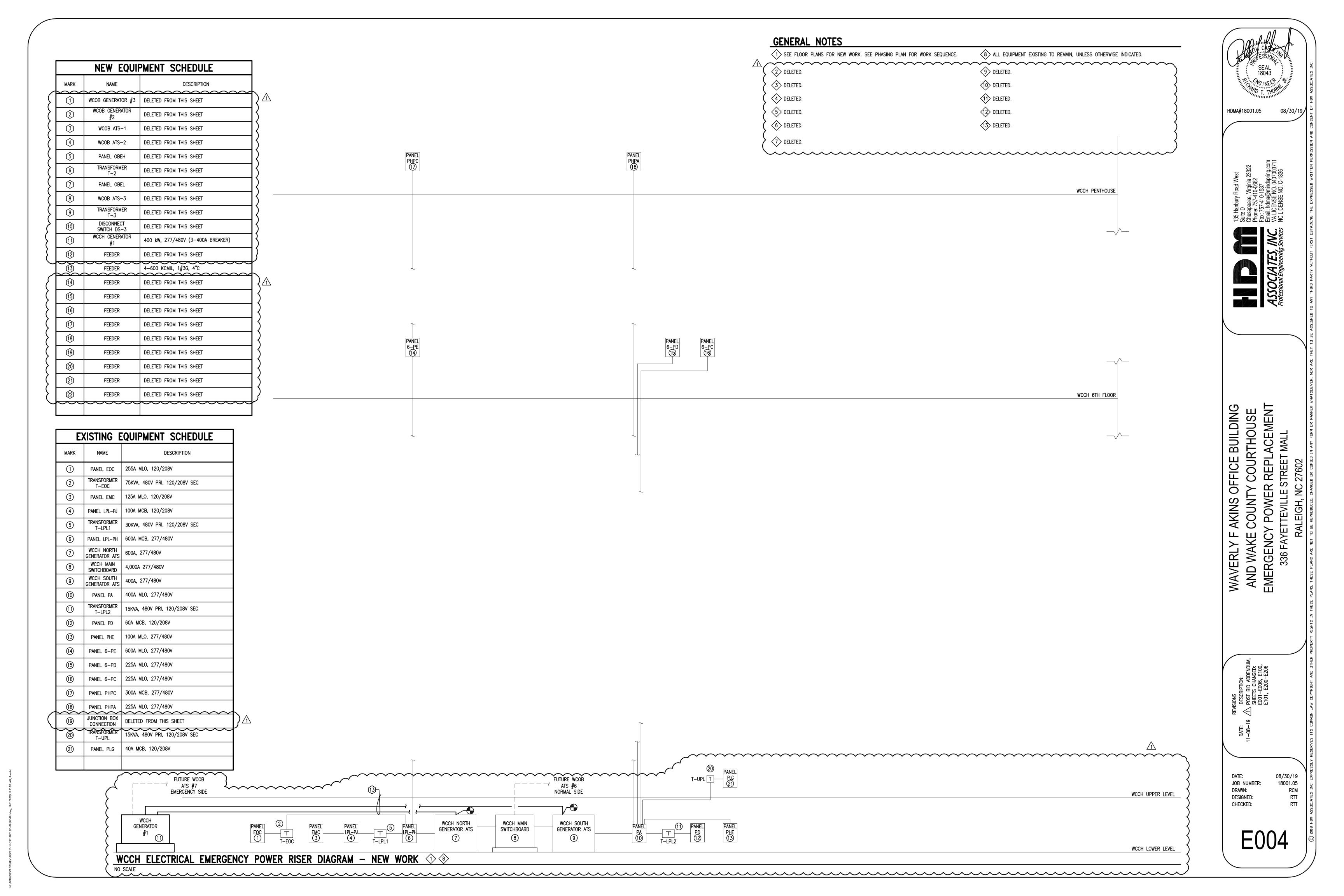


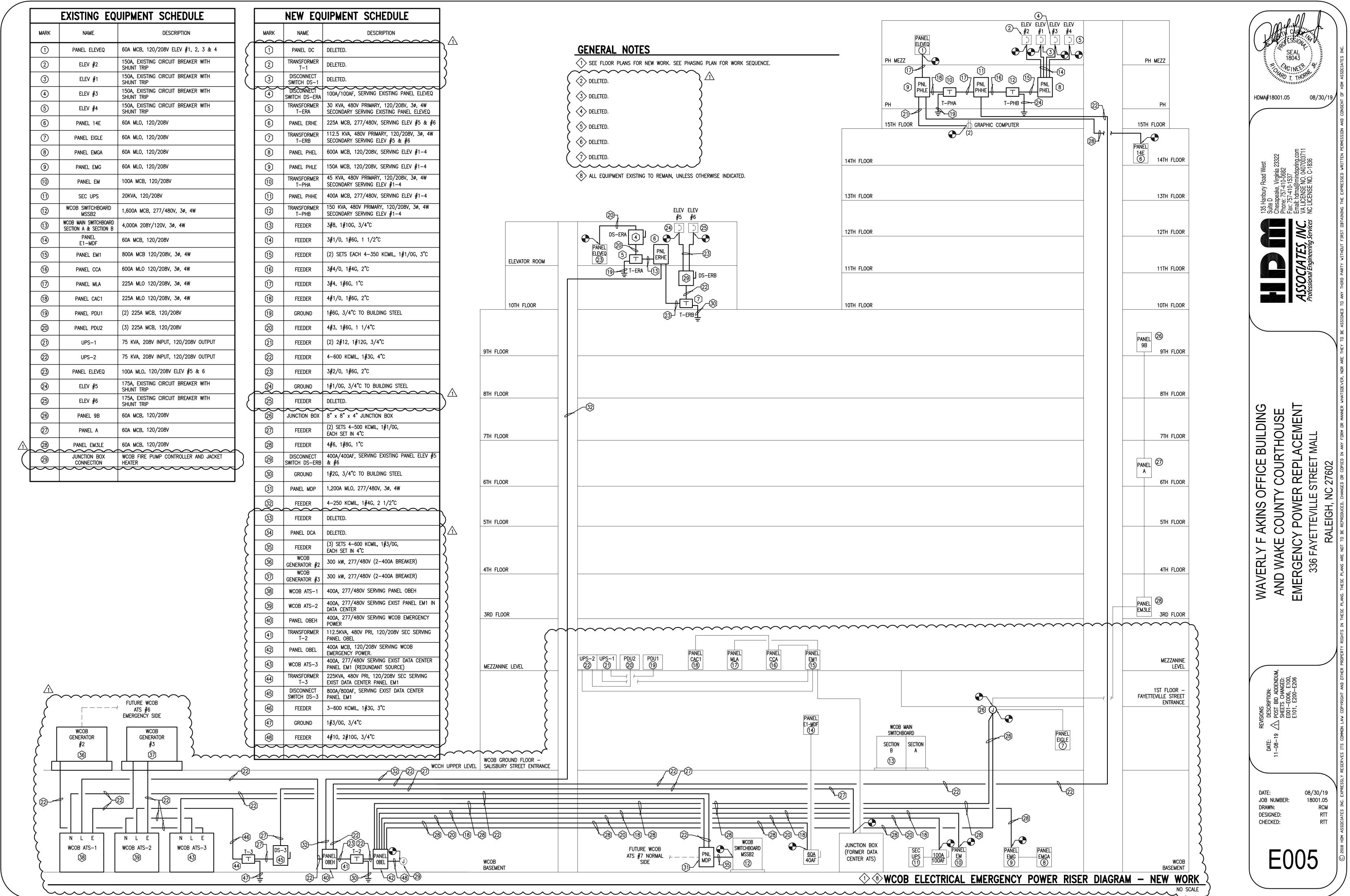
SE SE ASOCIATES, INC. Professional Engineering Service.

WAVERLY F AKINS OFFICE BUILDING
AND WAKE COUNTY COURTHOUSE
EMERGENCY POWER REPLACEMENT
336 FAYETTEVILLE STREET MALL
RALEIGH, NC 27602
HTS IN THESE PLANS, THESE PLANS ARE NOT TO BE REPRODUCED, CHANGED DR COPTED IN ANY FORM DR MANNER WHAT

DATE: DESCRIPTION:
-08-19 A POST BID ADDENDUM,
SHEETS CHANGED:
E001-E006, E100,
E101, E200-E206

DATE: 08/30/19
JOB NUMBER: 18001.05
DRAWN: DMG
DESIGNED: RTT
CHECKED: RTT





		10	DOA MCB	, 120,	/208	۷, 3	3 PHA	SE,	4 W	/IRE	10 KAIC	MINIMUM	SURFACI	E MOUNT
LOAD SERVED	A L	OAD(AMP: B	s) I c	BKR TRIP	CKT NO		HASE B (KT NO	BKR TRIP	A	OAD(AMP: B	S) C	LOAD SERVED
UNKNOWN	++	_		60	1	1		$\overline{\Box}$	2	30	2.5			FAYETTEVILLE MALL SECURITY
		++		2P	3	\mathcal{W}	+	\vdash	4	30		12.5		FAYETTEVILLE MALL X—RAY
SPACE			++		5	$1 \rightarrow 1$	\dashv		6	20			10.0	FAYETTEVILLE MALL X—RAY
SPACE					7	ॊ┲╅	-	\vdash	8	20	0.8			CAMERA LOWER LEVEL
SPACE					9]/ -	+	\vdash	10	20		0.8		CAMERA PARKING LEVEL
SHERIFF OFFICE 12TH FLOOR			++	100	11	\mathcal{V}	\dashv	\sim	12	20				SPACE
	++			2P	13] ~+	-	\vdash	14	20	5.0			WCCH GENERATOR BATT CHARGER
SPACE					15]^+	+	\vdash	16	20		5.0		WCCH GENERATOR SCADA SYSTEM
UNKNOWN			++	20	17]^+	\dashv	\sim	18	20			1.7	EXIT SIDE GATE
DAYTANK GENERAC	0.8			20	19] ~+		\vdash	20	20	1.7			ENTRANCE SIDE GATE
CONTROL WCOB FAN		1.7		20	21	black	+	\vdash	22	20		1.7		ENTRANCE DOOR CONTROL
DAYTANK NORTH GENERATOR			0.8	20	23	$] \!\! \! \uparrow \!\! \! \! \! \! \! \! \! \! \! \! \! \! \! \! $	\dashv	\sim L	24	15			4.8	WCCH GENERATOR ALTERNATOR
SPARE				20	25	ᅪ		\vdash	26	2P	4.8			HEATER
SPARE				100	27	$\vdash \!$	+	\sim	28	20		14.4		WCCH GENERATOR JACKET
				2P	29	+	\dashv		30	2P			14.4	HEATER
REC & LIGHTS GENERATOR RM	2.5			20	31	┟╲┼	-		32	70	66.7			PANEL EMC
REC & LIGHTS GENERATOR RM		2.5		20	33	+	+	_	34	3P		61.7		
REC & LIGHTS GENERATOR RM			2.5	20	35	ᅪᄾᡶ	\dashv	_	36				50.0	
MAIN BREAKER				100	37	┢	-	I -	38					SPACE
				3P	39	\vdash	+		40					SPACE
					41			\sim	42					SPACE
TOTAL	3.3	4.2	3.3								81.5	96.1	80.9	TOTAL

* REPLACE EXISTING 40A, 2P BREAKER WITH MATCHING 20A, 2P BREAKER.

658.0 664.0 653.0

LOAD SERVED

337.0 339.0 331.0

++ NO LOAD INDICATED ON EXISTING DRAWINGS.

LOAD SERVED

TOTAL

						÷		-						MOUNT
LOAD SERVED	LC	DAD(AMPS	<u>s)</u>	BKR	CKT		PHASE		CKT	BKR	LC	DAD(AMPS	5)	LOAD SERVED
EGAD SERVED	Α	В	С	TRIP	NO	<i>P</i>	A B	C	NO	TRIP	Α	В	С	LOAD SERVED
RANSFORMER T-PHA	30.3			70	1	\geq		$\overline{\mathbf{M}}$	2	225	159.6			TRANSFORMER T-PHB
		26.0		3P	3	州	+	╁╋┧	4	3P		159.6		
			17.3		5	ᄊ		╆┸┤	6				159.6	
PACE					7	ho	-	+	8					SPACE
PACE					9	brack	+	+	10					SPACE
PACE					11	M	+	┿╲[12					SPACE
PACE					13	ho	-	+	14					SPACE
PACE					15	M	-	₩	16					SPACE
PACE					17	ho	_	┿╲「	18					SPACE
PACE					19	M	-	₩	20					SPACE
PACE					21	ightharpoons	-	₩	22					SPACE
PACE					23	M		₩	24					SPACE
PACE					25	M	-	ऻ॔॔ऻ	26					SPACE
PACE					27	ho	+	┲	28					SPACE
PACE					29	ho		+	30					SPACE
TOTAL	30.3	26.0	17.3								159.6	159.6	159.6	TOTAL

PANELBOARD PHHE SCHEDULE

		P	ANE	LBO	ARI	D	OE	BEH	S	CHE	EDUL	E		
		40	OA MCB	, 277,	/480	٧,	3 PI	HASE,	4 \	WIRE	65 KAIC	MINIMUM	SURFACE	E MOUNT
LOAD SERVED	A LO	DAD(AMP: B	S) C	BKR TRIP	CKT NO		PHAS B		CKT NO	BKR TRIP		OAD(AMPS		LOAD SERVED
PANEL ERHE	101.0	101.0	108.0	225 3P	1 3 5	\bigwedge	•	$\int_{\mathbb{T}}$	2 4 6	176 3P	95.0	105.0	96.0	TRANSFORMER T-2
PANEL PHHE	190.0	186.0	177.0	350 3P	7 9 11	\uparrow		^ ^ ^	8 10 12					SPACE SPACE SPACE
SPACE SPACE					13 15 17		+	<u> </u>	14 16					SPACE SPACE SPACE
SPACE SPACE SPACE					17 19 21	$\frac{1}{2}$	\downarrow	- - - -	18 20 22					SPACE SPACE
SPACE SPACE SPACE					23 25	$\frac{1}{2}$		-\^ -\^	24 26					SPACE SPACE SPACE
SPACE					27 29		1	-	28 30					SPACE
TOTAL	291.0	287.0	285.0 TOTAL	CONN	ECTED	AN	IPS	A: 36	36	B: 39	95.0 2 C:3	105.0 81	96.0	TOTAL
										$\overline{}$,,,		

			OA MCB		_	-							E MOUNT	
LOAD SERVED	L	DAD(AMPS		BKR	CKT		HASE	CKT	BKR	L	DAD(AMPS		LOAD SERVED	
	A	В	С	TRIP	NO	A	ВС	NO	TRIP	A	В	С		
ELEV #1	92.0			150	1	┟┰┿╌	++	<u>N_2</u>	_ 150	92.0			ELEV #3	
		92.0		3P	3	┟╋┼╴	+ +	<u> </u>	3P		92.0			
			92.0		5	┟╲┼╴	++	<u>ላ_ 6_</u>				92.0		
ELEV #2	92.0			150	7	┟┰╁╴	++	<u>N 8</u>	150	92.0			ELEV #4	
		92.0		3P	9	} ∤├	+	10	3P		92.0			
			92.0		11	$\mathcal{V}+$	╅	12				92.0		
SPACE					13	\vdash	++	$\sqrt{14}$					SPACE	
SPACE					15	\vdash	+	√ 16					SPACE	
SPACE					17	\vdash	┵	√ 18					SPACE	
SPACE					19	ᠯᢇᡰ	++	$\sqrt{20}$					SPACE	
SPACE					21	1 ~L	+	√ 22					SPACE	
SPACE					23	$1 \leftarrow$	++	√ 24					SPACE	
SPACE					25	\vdash	44	√ 26					SPACE	
SPACE					27	\vdash	+	√ 28					SPACE	
SPACE					29	$1 \sim 1$	+	$\sqrt{30}$					SPACE	
TOTAL	184.0	184.0	184.0		•		•	'		184.0	184.0	184.0	TOTAL	

		4(DOA MCB	, 120,	/208 '	۷,	3 PH	ASE,	4 V	/IRE		MINIMUM		MOUNT
LOAD SERVED	A	OAD(AMP	s) I c	BKR TRIP	CKT NO		PHASE B		CKT NO	BKR TRIP	L(DAD(AMPS B	S) C	LOAD SERVED
PANEL E1-MDF	18.0			60	1	1	\blacksquare	$\overline{\wedge}$	2	20	5.0	1		FIRE PUMP CONTROL PANEL +
		18.0		3P	3	₩	- -	╁╲┧	4	20		8.3		FIRE PUMP JACKET HEATER +
			18.0		5	ᄊ	_	₩	6	20				SPARE
PANEL EMG	28.0			60	7	┢┰┪	+	╁┪	8	60	20.0			PANEL EIGLE -
		44.0		3P	9	₩	\rightarrow	╁ᠰ	10	3P		20.0		
			40.0		11	\mathcal{W}	-	╆┸┤	12				20.0	
SEC UPS	55.5			100	13	╊╋	+	╁╋	14	100	82.0			PANEL EM +
		55.5		3P	15	州	-	╁ᠰ	16	3P		86.0		<u> </u>
			55.5		17	ᅛ	+	╆┸┧	18/	\	X)	72.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
SPACE					19	 	+	╁╋	20	60	10.0			PANEL EM3LE -
SPACE					21	\vdash	+	╁ᠰ	22	3P		10.0		
SPACE					23	\vdash	+	╆┸┧	24				10.0	
SPACE					25	┢╲┪	+	╁╲┤	26	<u> </u>	\sim			SPACE
SPACE					27	M	+	\forall	28					SPACE
SPACE					29	M	-	オ╌	30					SPACE
SPACE					31	┢╲┪	+	$t \cap$	32					SPACE
SPACE					33	M	+	╁╲┪	34					SPACE
SPACE					35	$ \uparrow \uparrow$	+	オ	36					SPACE
SPACE					37	┢╲┪	+	⇈	38					SPACE
SPACE					39	\cap	+	$t \cap$	40					SPACE
SPACE			~~		41			$\uparrow \smallfrown$	42				\sim	SPACE
TOTAL , (101.5	117.5	113.5)							117.0	124.3	102.0) TOTAL
11	$\overline{}$	$\overline{}$	TOTAL	CONN	FCTFD	Δħ	IPS \$	A: 2	10	B: 242	2 C:2	16		'

		P	ANE	LBO	ARI	D	Pł	HLE	S	CHE	DUL	E		
		15	OA MCB	, 120,	/208 \	٧,	3 P	HASE	, 4 V	VIRE	22 KAIC	MINIMUM	SURFACE	MOUNT
LOAD SERVED	L	OAD(AMPS	S)	BKR	CKT		PHAS	SE	CKT	BKR	L	DAD(AMPS	S)	LOAD SERVED
	Α	В	С	TRIP	NO	A	В	С	NO	TRIP	Α	В	С	
GRAPHIC COMPUTER 15TH FLOOR	10.0			20	1	\searrow	\dashv	+	2	20				SPARE
SPARE				20	3	\sim	+	┵	4	20				SPARE
GRAPHIC COMPUTER 15TH FLOOR			10.0	20	5	\sim	+	┵	6	20				SPARE
PANEL ELEVEQ	30.0			60	7	┢┱ᡶ	+	Ⅎ℩	8	60	30.0			PANEL 14E
		30.0		2P	9	ᄼᄾ	\rightarrow	Ⅎϯ	10	3P		30.0		
SPACE					11	\vdash	+	┵	12				30.0	
SPACE					13	ho	\dashv	┵	14					SPACE
SPACE					15	\vdash	+	┵	16					SPACE
SPACE					17	\vdash	+	→^	18					SPACE
SPACE					19	ho	+	┵	20					SPACE
SPACE					21	ho	+	┵	22					SPACE
SPACE					23	ightharpoonup	+	$+ \smallfrown$	24					SPACE
SPACE					25	ightharpoonup	\dashv	┵	26					SPACE
SPACE					27	ightharpoons	+	$+ \smallfrown$	28					SPACE
SPACE					29	ho		<u> </u>	30					SPACE
TOTAL	40.0	30.0	10.0								30.0	30.0	30.0	TOTAL
			TOTAL	CONN	CTED	AN	/IPS	A: 7	0	B: 60	C:4	-0		

		F	PANE	LB0	ARI	D	ER	HE	S	CHE	DUL	E		
225A MLO , 277/480 V, 3 PHASE, 4 WIRE 35 KAIC MINIMUM SURFACE MOUNT														
LOAD SERVED	L	OAD(AMP	S)	BKR	CKT	ı	PHASE		CKT	BKR	L(DAD(AMP:	S)	LOAD SERVED
LOAD SLIVED	Α	В	С	TRIP	NO	A	. В (0	NO	TRIP	Α	В	С	EOAD SERVED
TRANSFORMER T-ERA	15.6			45	1	1	-	Λ	2	175	85.0			TRANSFORMER T-ERB
		15.6		3P	3	州	+	₩	4	3P		85.0		
			23.4		5	ho h	+	┢┸┧	6				85.0	
SPACE					7	┝╲╅	-	${\mathbb M}$	8					SPACE
SPACE					9	ightharpoonup	\rightarrow	\sim	10					SPACE
SPACE					11	$ ho \downarrow$	-	┢╲┥	12					SPACE
SPACE					13	ᠯ╱╅	_	\sim	14					SPACE
SPACE					15	\sim	\rightarrow	\sim	16					SPACE
SPACE					17	\mathbb{A}	+	┢╲┤	18					SPACE
SPACE					19	ᠯ╱╅	_	\sim	20					SPACE
SPACE					21	\mathbb{H}	+	\vdash	22					SPACE
SPACE					23	\mathbb{H}	+	┢╲┆	24					SPACE
SPACE					25	Ĭ~	\perp	\vdash	26					SPACE
00105				1		1 _	- 1	1 _ 1		—				00105

TOTAL CONNECTED AMPS A: 101 B: 101 C: 108

		<u>EXIS</u>	<u>TING</u>	PA	NEL	<u>_B</u>	<u>0a</u>	<u>RD</u>	<u>P</u>	<u>LG</u>	<u>SCHI</u>	<u>EDUL</u>	<u>.E</u>	
			40A MCE	3, 120	0/208	٧,	3 P	HASE	E, 4	WIRE	14 KAIC	MINIMUN	A SURFAC	CE MOUNT
LOAD SERVED	A	OAD(AMP B	S) I c	BKR TRIP	CKT NO		PHASI A B		CKT NO	BKR TRIP	A LO	DAD(AMPS B	S) C	LOAD SERVED
REC GENERATOR ROOM	3.0			20	1	h	7	$\overline{}$	2	20				SPARE
REC GENERATOR ROOM		3.0		20	3	\vdash	+	╁╲	4	20		5.0		BATTERY CHARGER (WCOB EMERGENCY POWER GEN)
DAY TANK PUMP (WCOB UPS-1 GEN RM)			5.0	20	5	\vdash		┿	6	20			5.0	BATTERY CHARGER (WCOB UPS-1 GEN RM)
DAY TANK PUMP (WCOB EMERGENCY POWER GEN)	5.0			20	7	ightharpoonup	+	╁╋	- 8	20	14.4			JACKET HEATER (WCOB UPS-1 GEN RM)
REC GENERATOR ROOM		3.0		20	9	\vdash	+	╁┸	10	2P		14.4		2#12, 1#12G, 3/4"C
BATTERY CHARGER (WCOB EMERGENCY POWER GEN)			5.0	20	11	ightharpoonup	+	╁┰	12	20			14.4	JACKET HEATER (WCOB EMERGENCY POWER GEN)
SPACE					13	ightharpoonup	+	╀┸	14	2P	14.4			2#12, 1#12G, 3/4"C
ALTERNATOR HEATER (WCOB UPS-1 GEN RM)		4.8		15	15	M	+	╁	16	15		4.8		ALTERNATOR HEATER (WCOB EMERGENCY POWER GEN)
2#12, 1#12G, 3/4°C			4.8	2P	17	ᅛ		┵	18	2P			4.8	2#12, 1#12G, 3/4"C
TOTAL	8.0	10.8	14.8								28.8	24.2	24.2	TOTAL

TOTAL CONNECTED AMPS A: 37 B: 35 C: 39

85.0 85.0 85.0

TOTAL

++ PER EXISTING DRAWINGS. +++ BASED ON 20 KVA UPS.

TOTAL

15.6 | 15.6 | 23.4 |

	/ / /						• •							
WCOB ATS-1	386.0			400	1	Γ		$-\!$	2	400	337.0			WCOB ATS-3
4-600KCMIL, 1#3G, 4"C		392.0		3P	3	궑	+	┵	4	3P		339.0		4-600KCMIL, 1#3G, 4"C
			381.0		5	ᅶ		┵	6				331.0	
SPACE					7]∕~	┝	┵	8					SPACE
SPACE					9	black	+	$+ \smallfrown$	10					SPACE
SPACE					11	♪		$+ \smallfrown$	12					SPACE
SPACE					13	black	₩	$+ \smallfrown$	14					SPACE
SPACE					15	♪	+	┵	16					SPACE
SPACE					17	black		→^	18					SPACE
SPACE					19]∕~	┝	┵	20					SPACE
SPACE					21	black	+	$+ \smallfrown$	22					SPACE
SPACE					23	♪		$+ \smallfrown$	24					SPACE
SPACE					25	black	₩	$+ \smallfrown$	26					SPACE
SPACE					27	♪	+	┵	28					SPACE
SPACE					29	black		→^	30					SPACE
SPACE					31]∕~	┝	┵	32					SPACE
SPACE					33	black	+	$+ \smallfrown$	34					SPACE
SPACE					35	<u>}</u> ~		$+ \smallfrown$	36					SPACE
CHILLER	272			700	37	<u>}</u>	₩	$+ \smallfrown$	38					SPACE
3-500 KCMIL, 1#1/0G, 4"C		272		3P	39	孙	+	$+\!$	40					SPACE
			272		41	Ҡ		$\rightarrow \sim$	42					SPACE

TOTAL CONNECTED AMPS A: 995 B: 1,003 C: 984

PANELBOARD MDP SCHEDULE

 LOAD(AMPS)
 BKR
 CKT
 PHASE
 CKT
 BKR
 LOAD(AMPS)

 A
 B
 C
 TRIP
 NO
 A
 B
 C
 NO
 TRIP
 A
 B
 C

1200A MLO, 277/480 V, 3 PHASE, 4 WIRE 65 KAIC MINIMUM SURFACE MOUNT

DELETED PANEL DC DELETED PANEL DCA

HDMA#18001.05 08/30/19

WAVERLY F AKINS OFFICE BUILDING AND WAKE COUNTY COURTHOUSE EMERGENCY POWER REPLACEMENT 336 FAYETTEVILLE STREET MALL

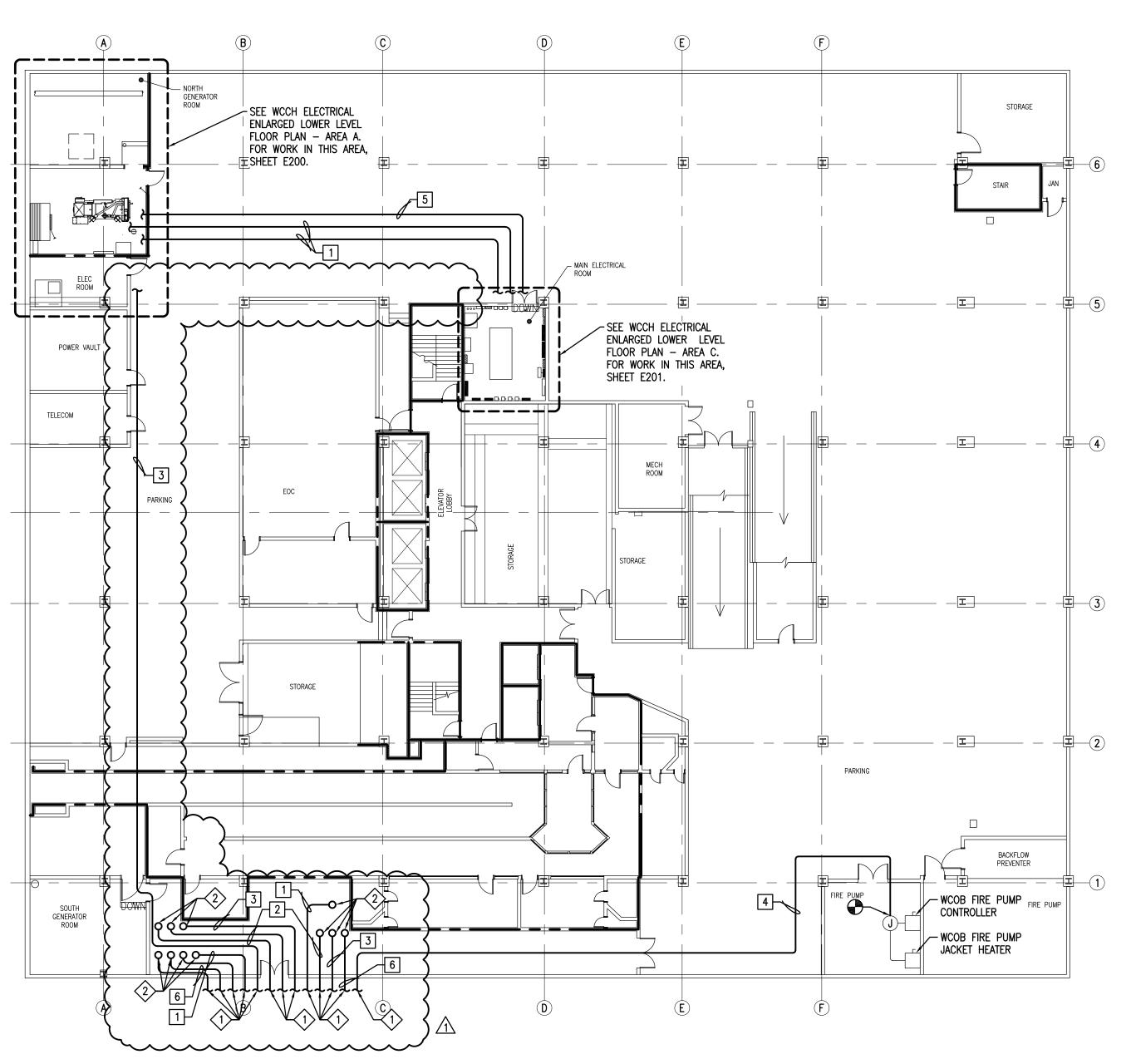
JOB NUMBER: DESIGNED: CHECKED:

08/30/19 18001.05

RCM RTT

RTT

^{*} PROVIDE MATCHING BREAKER.



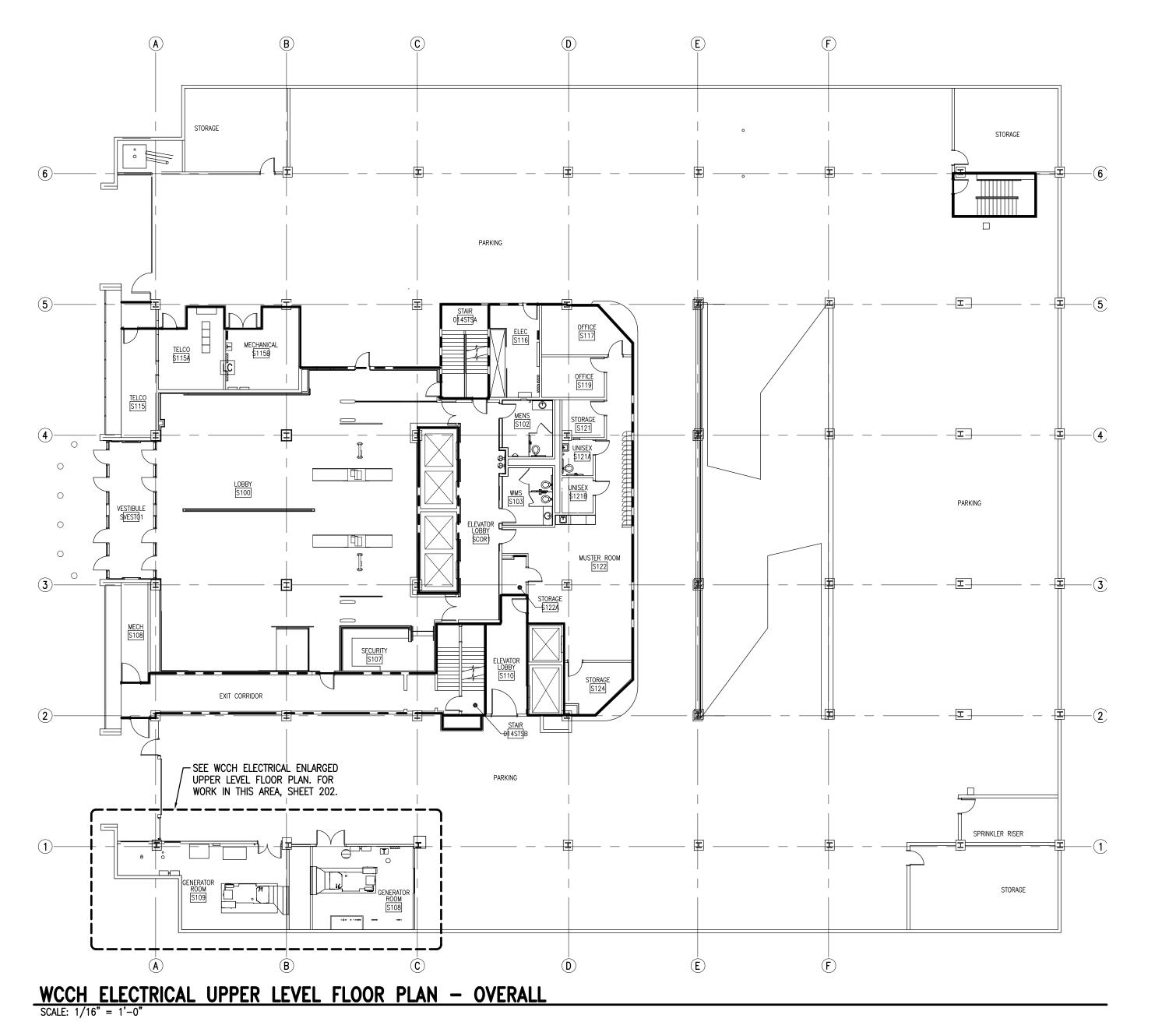


WORK NOTES

- 1 PROVIDE 4-600 KCMIL, 1#3G, 4" CONDUIT.
- 2 PROVIDE 3#12, 3/4" CONDUIT FOR ENGINE START.
- 3 PROVIDE 4#12, 1-16 AWG IT OVERALL SHIELDED INSTRUMENTATION TRAY CABLE (BELDEN 9366), 3/4" CONDUIT.
- PROVIDE 4#10, 2#10G, 3/4" CONDUIT TO PANEL OBEL.
- 5 PROVIDE (2) 3#12, 3/4" CONDUIT FOR ENGINE START.
- 6 PROVIDE 3/4" CONDUIT WITH DATA WIRING TO WCOB ATS AND GENERATOR DEMARC PANEL.

GENERAL NOTES

- SEE WCOB ELECTRICAL BASEMENT FLOOR PLAN OVERALL FOR CONTINUATION, SHEET E101.
- SEE WCCH ELECTRICAL ENLARGED UPPER LEVEL FLOOR PLAN NEW WORK FOR CONTINUATION, SHEET E202.



FIRE WALL LEGEND

2 HOUR FIRE RATED BARRIER

GRAPHIC SCALE

1/16" = 1'-0"

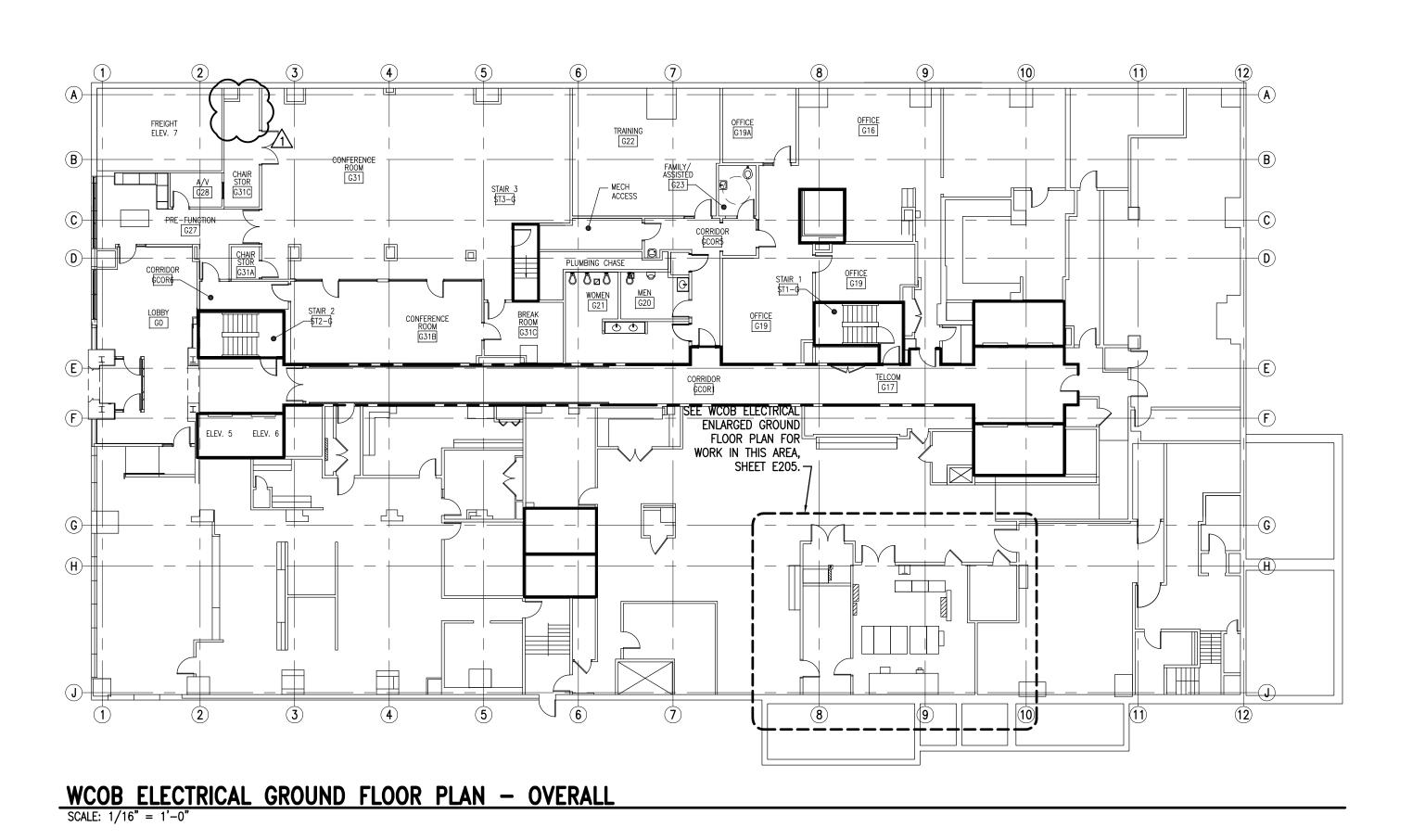
8' 0 8' 16' 32'

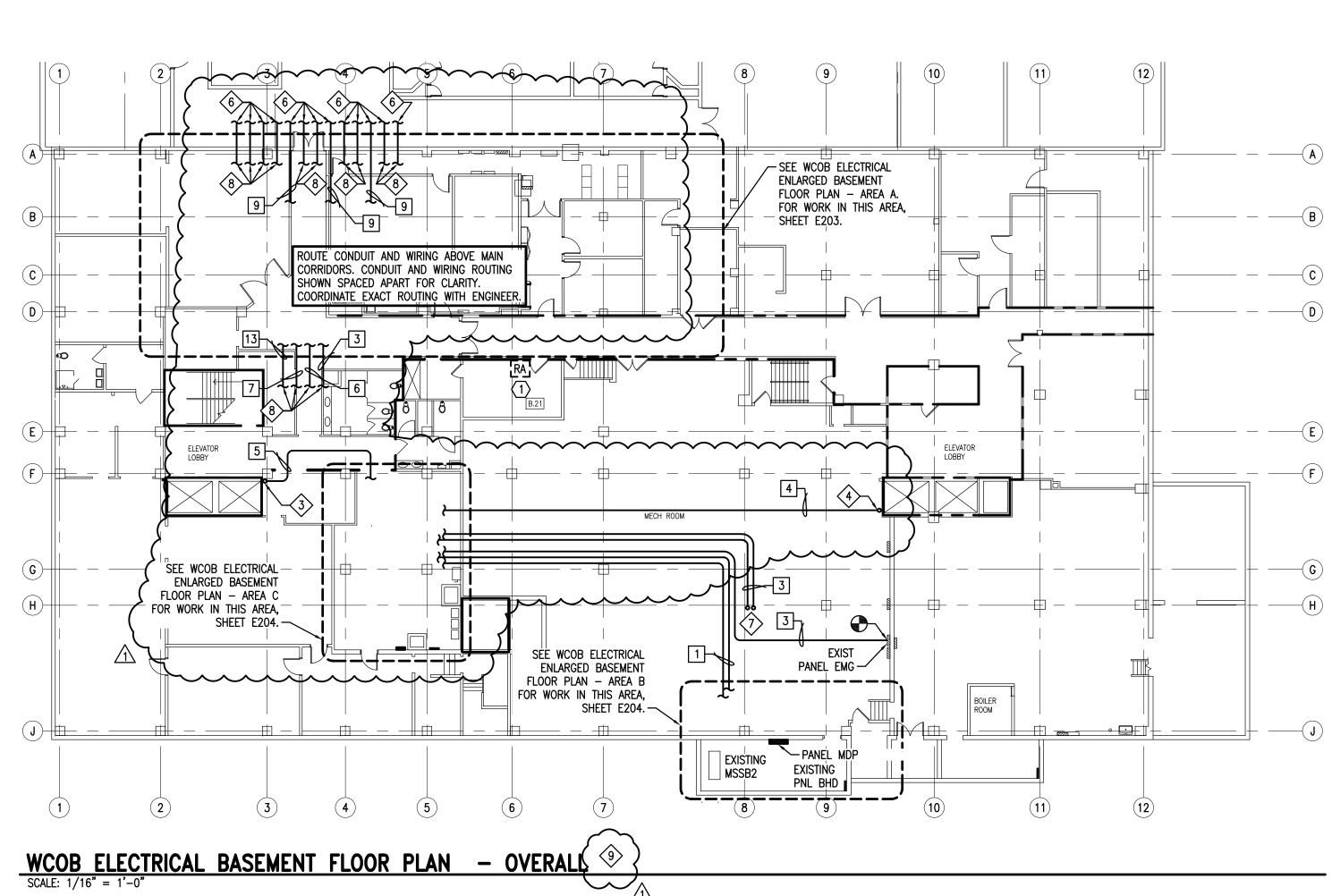
REVISIONS
DATE:
DESCRIPTION:
11-08-19 A POST BID ADDENDUN
SHEETS CHANGED:
E001-E006, E100,
E101, E200-E206

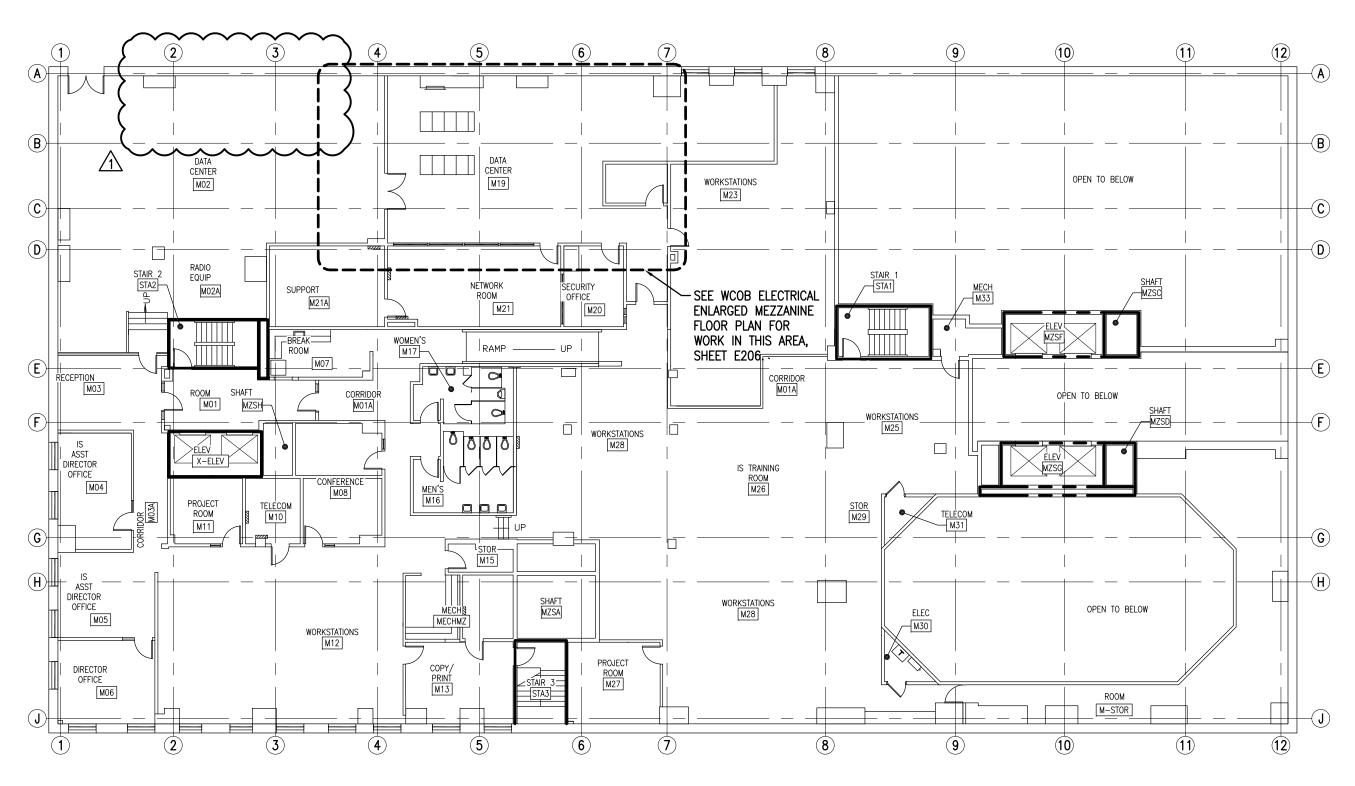
WAVERLY F AKINS OFFICE BUILDING AND WAKE COUNTY COURTHOUSE EMERGENCY POWER REPLACEMENT 336 FAYETTEVILE STREET MALL

HDMA#18001.05 08/30/19

DATE: 08/30/19
JOB NUMBER: 18001.05
DRAWN: RCM
DESIGNED: RTT
CHECKED: RTT







WCOB ELECTRICAL MEZZANINE PLAN - OVERALL

DEMOLITION NOTES

REMOVE REMOTE ANNUNCIATOR FOR WCOB EMERGENCY POWER GENERATOR WITH ASSOCIATED CONDUIT AND WIRING BACK TO GENERATOR.

NEW WORK NOTES

▶ 1 PROVIDE 4-600 KCMIL 1#3G, 4" CONDUIT TO WCOB ATS-1 AND WCOB ATS-3. COORDINATE

CONDUIT ROUTING WITH FIELD CONDITIONS. 2 DELETED.

3 PROVIDE 4#6, 1#8G, 1" CONDUIT.

4 PROVIDE 4-600KCMIL, 1#3G, 4" CONDUIT.

5 PROVIDE 4-250KCMIL, 1#4G, 2 1/2" CONDUIT.

PROVIDE TWO (2) SET 4-500 KCMIL 1#1/0G EACH IN 4" CONDUIT. COORDINATE CONDUIT ROUTING WITH FIELD CONDITIONS.

7 PROVIDE 4#1/0, 1#6G, 2" CONDUIT. $\overline{}$

9 PROVIDE 4#12, 1-16 AWG IT OVERALL SHIELDED INSTRUMENTATION TRAY CABLE (BELDEN 9366),

3/4" CONDUIT

10 DELETED. 11 DELETED.

12 DELETED.

13 PROVIDE 4#3, 1#6G, 1 1/4" CONDUIT.

GENERAL NOTES

DELETED.

2 DELETED.

TO PANEL ERHE IN ELEVATOR ROOM. SEE WCOB ELECTRICAL ENLARGED ELEVATOR ROOM FLOOR PLAN — NEW WORK, SHEET E209.

TO PANEL PHHE IN PENTHOUSE. SEE WCOB ELECTRICAL ENLARGED PENTHOUSE FLOOR PLAN - NEW WORK, SHEET E207.

5 DELETED.

_____ 6 SEE WCCH ELECTRICAL LOWER LEVEL FLOOR PLAN - OVERALL FOR CONTINUATION, SHEET E100.

7 TO JUNCTION BOX ON GROUND FLOOR. SEE WCOB ELECTRICAL ENLARGED GROUND FLOOR PLAN FOR CONTINUATION, SHEET E205.

SEE WCOB ELECTRICAL ENLARGED BASEMENT FLOOR PLAN - AREA C FOR CONTINUATION, SHEET E204.

9 CONDUIT AND WIRING ROUTING SHOWN SPACED APART FOR CLARITY. COORDINATE EXACT ROUTING WITH ENGINEER.

FIRE WALL LEGEND 2 HOUR FIRE RATED BARRIER GRAPHIC SCALE

HDMA#18001.05

08/30/19

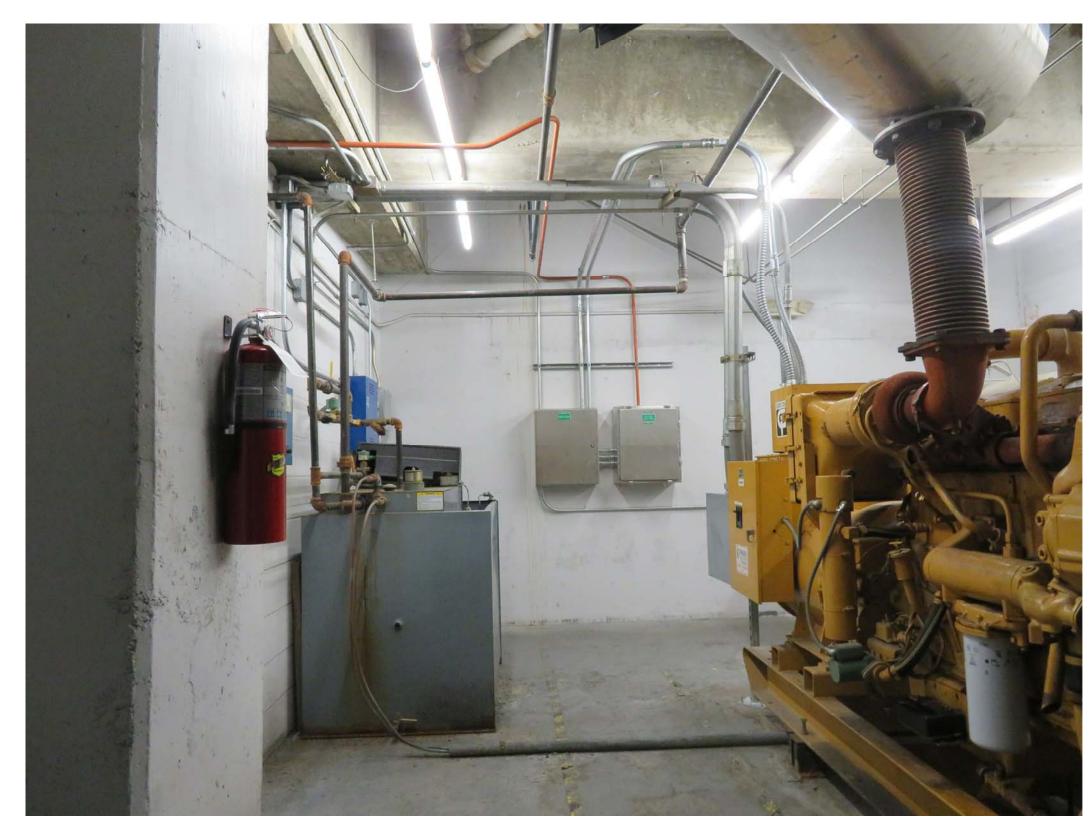
S OFFICE BUILDING ITY COURTHOUSE VER REPLACEMENT WAVERLY F AKINS OFF AND WAKE COUNTY C EMERGENCY POWER F 336 FAYETTEVILLE ST

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08/30/19 JOB NUMBER: 18001.05 DMG DRAWN: DESIGNED: RTT CHECKED:

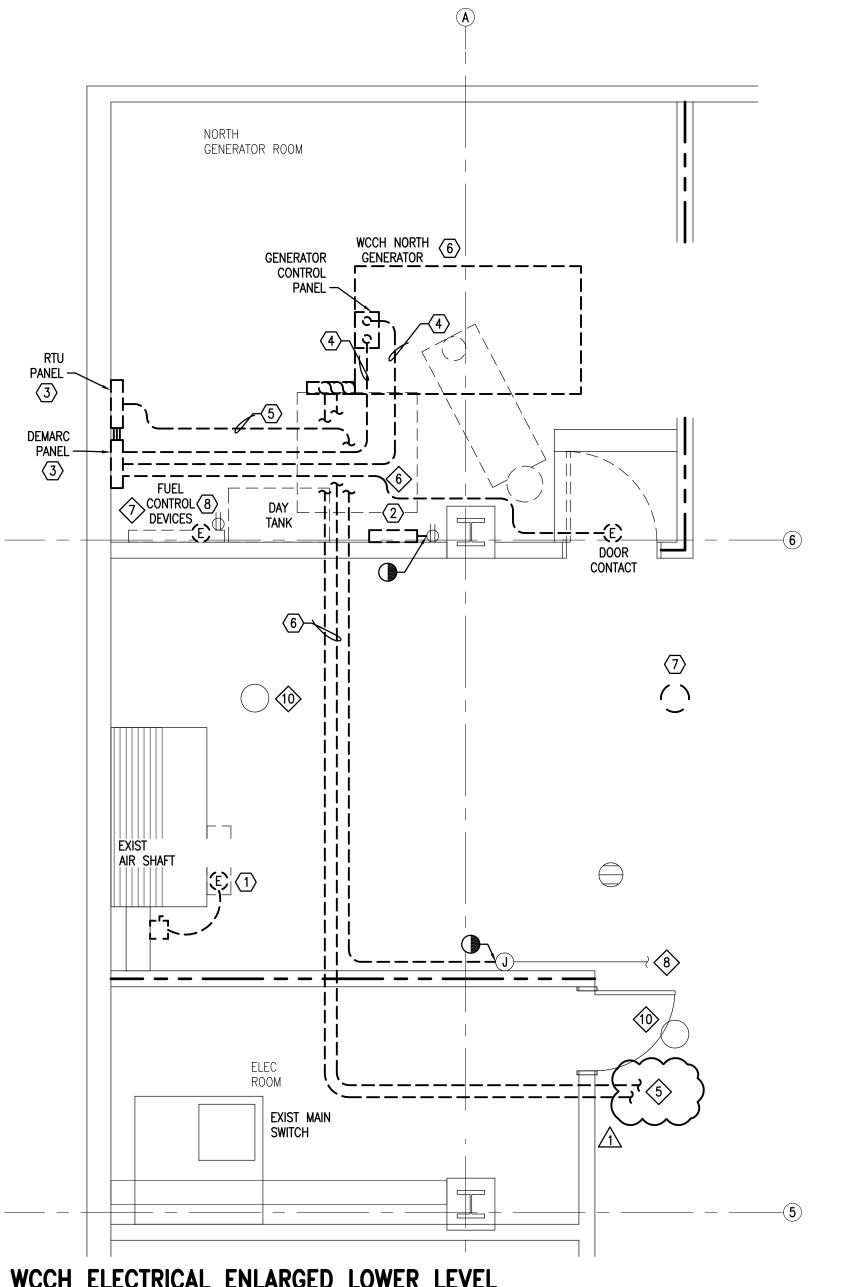


EXISTING FUEL CONTROL DEVICES PHOTO - NORTH GENERATOR ROOM



EXISTING NORTH GENERATOR ROOM PHOTO

NO SCALE



WCCH ELECTRICAL ENLARGED LOWER LEVEL FLOOR PLAN - AREA A - DEMOLITION

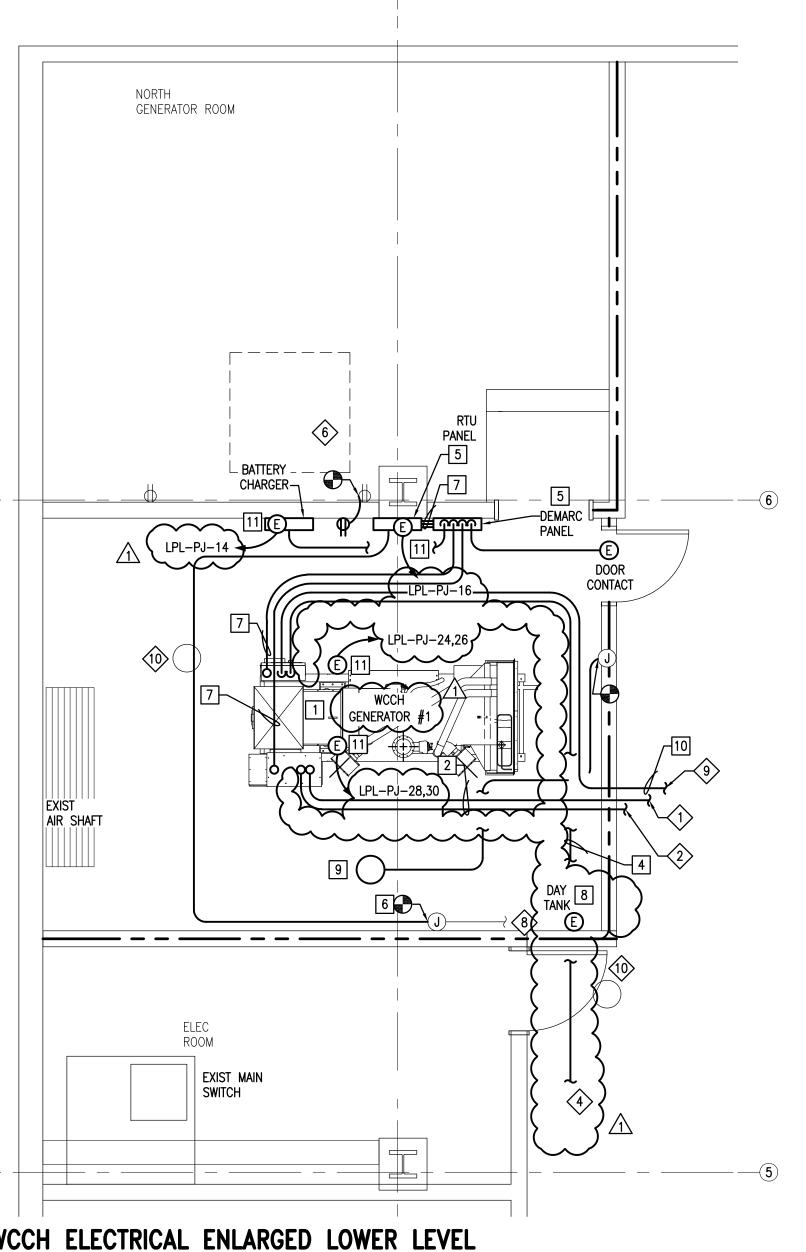
SCALE: 1/4" = 1'-0"

DEMOLITION NOTES

- 1 REMOVE EXHAUST FAN ELECTRICAL CONNECTION WITH ASSOCIATED DISCONNECT, CONDUIT AND WIRING BACK TO SOURCE.
- (2) REMOVE BATTERY CHARGER WITH ASSOCIATED CONDUIT AND WIRING TO SOURCE.
- REMOVE DEMARC AND RTU PANELS WITH ASSOCIATED CONDUIT AND WIRING AS INDICATED. SAVE PANELS FOR REUSE IN NEW WORK. SEE WCCH ELECTRICAL ENLARGED LOWER LEVEL FLOOR PLAN - AREA A - NEW WORK FOR NEW LOCATION.
- 4 REMOVE CONDUIT AND WIRING BETWEEN DEMARC PANEL AND GENERATOR CONTROL PANEL.
- 5 PULL DATA WIRING BACK TO JUNCTION BOX INDICATED. MAINTAIN DATA WIRING AND JUNCTION BOX FOR CONNECTION IN NEW WORK. REMOVE DATA CONDUIT TO POINT INDICATED.
- REMOVE WCCH NORTH GENERATOR COMPLETE WITH ASSOCIATED CONDUIT AND WIRING BACK TO WCCH NORTH GENERATOR ATS IN MAIN ELECTRICAL ROOM. SEE WCCH ELECTRICAL EMERGENCY POWER RISER DIAGRAM DEMOLITION AND PHASING PLAN FOR WORK SEQUENCE.
- 7 REMOVE LIGHT FIXTURE AND SAVE FOR REUSE IN NEW WORK. MAINTAIN JUNCTION BOX AND CIRCUIT FOR CONNECTION IN NEW WORK. SEE NEW WORK PLAN FOR NEW LOCATION.
- (8) REMOVE ELECTRICAL CONNECTION TO FUEL CONTROL DEVICES. MAINTAIN CIRCUIT FOR REUSE IN

GENERAL NOTES

- TO WCCH SOUTH GENERATOR ATS IN MAIN ELECTRICAL ROOM. SEE WCCH ELECTRICAL LOWER LEVEL FLOOR PLAN OVERALL FOR CONTINUATION, SHEET E100.
- 2 TO WCCH NORTH GENERATOR ATS IN MAIN ELECTRICAL ROOM. SEE WCCH ELECTRICAL LOWER LEVEL FLOOR PLAN - OVERALL FOR
- CONTINUATION, SHEET E100. 3 DELETED. _____
 - TO WCCH REMOTE ANNUNCIATOR IN FIRE COMMAND CENTER IN WCOB BASEMENT. SEE WCCH ELECTRICAL LOWER LEVEL FLOOR PLAN OVERALL FOR CONTINUATION, SHEET E100.
 - 5 TO WCCH NORTH GENERATOR ATS IN MAIN ELECTRICAL ROOM. SEE WCCH ELECTRICAL ENLARGED LOWER LEVEL FLOOR PLAN AREA C - DEMOLITION FOR CONTINUATION, SHEET E201.
- 6 OPENING THROUGH CEILING TO LOUVER ON UPPER LEVEL FLOOR
- (7) EXISTING FUEL CONTROL DEVICES: CONTROL PANEL, DISCONNECT SWITCH AND JUNCTION BOX. SEE EXISTING FUEL CONTROL DEVICES PHOTO — NORTH GENERATOR ROOM. (8) TO TELCO ROOM.
- TO WCCH NORTH AND SOUTH GENERATOR ATS IN MAIN ELECTRICAL ROOM. SEE WCCH ELECTRICAL LOWER LEVEL FLOOR PLAN OVERALL FOR CONTINUATION, SHEET E100.
- (10) LIGHT FIXTURE TO REMAIN.



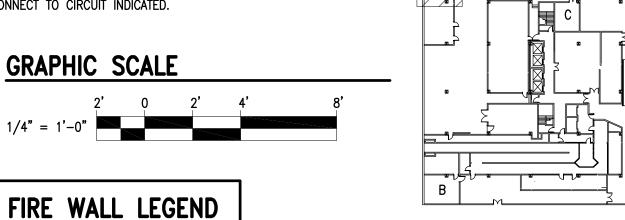
WCCH ELECTRICAL ENLARGED LOWER LEVEL FLOOR PLAN - AREA A - NEW WORK

SCALE: 1/4" = 1'-0"

NEW WORK NOTES

- 1 PROVIDE WCCH GENERATOR #1 AS INDICATED AND SPECIFIED. SEE WCCH ELECTRICAL EMERGENCY POWER RISER DIAGRAM - NEW WORK AND PHASING PLAN FOR WORK SEQUENCE.
- 2 PROVIDE 4-600 KCMIL, 1#3G, 4" CONDUIT.
- 3 DELETED FROM THIS SHEET.
- 4 PROVIDE 4#12, 1-16 AWG IT OVERALL SHIELDED INSTRUMENTATION TRAY CABLE (BELDEN 9366), 3/4" CONDUIT.
- 5 NEW LOCATION OF SAVED DEMARC AND RTU PANELS. PROVIDE VT AND CT IN GENERAL CONTROL PANEL AND OUTPUT BREAKERS AS REQUIRED FOR SCADA SYSTEM. CONNECT TO NEW GENERATOR. COORDINATE EXACT REQUIREMENTS IN FIELD. SEE THREE PHASE POWER MONITORING FOR SCADA INPUTS AND GENERATOR DIGITAL INPUTS.
- 6 PROVIDE CONDUIT FOR ROUTING EXISTING DATA WIRING TO RTU PANEL. REPULL WIRE TO RTU
- 7 PROVIDE CONDUIT AND WIRING FOR SCADA SYSTEM. SEE TYPICAL SCADA SITE LAYOUT.
- 8 PROVIDE ELECTRICAL CONNECTION TO DAY TANK. EXTEND EXISTING FUEL CONTROL DEVICES
- 9 NEW LOCATION FOR SAVED LIGHT FIXTURE. PROVIDE 2#12, 1#12G, 3/4C TO JUNCTION BOX AND
- PROVIDE (2) 3#12, 3/4" CONDUIT TO EACH NORTH AND SOUTH ATS IN MAIN ELECTRICAL ROOM FOR ENGINE START.
- PROVIDE ELECTRICAL CONNECTION WITH DEVICE BOX, CONDUIT AND WIRING AS SHOWN. CONNECT TO CIRCUIT INDICATED.

2 HOUR FIRE RATED BARRIER



KEY PLAN - LOWER LEVEL

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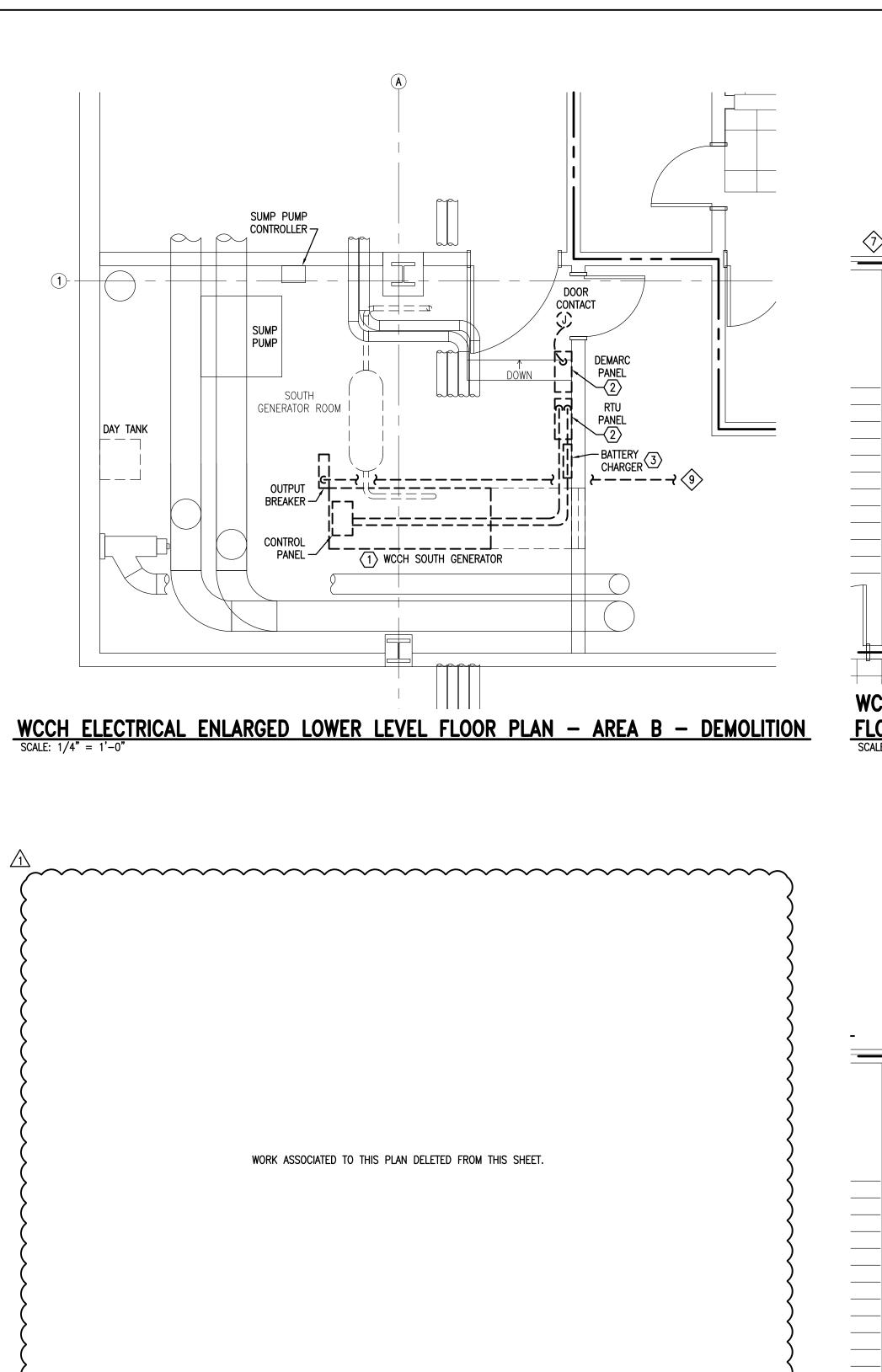
WAVERLY F

AND WAKE EMERGENCY 336 FAYE

08/30/19 JOB NUMBER: 18001.05 DRAWN: DESIGNED: CHECKED:

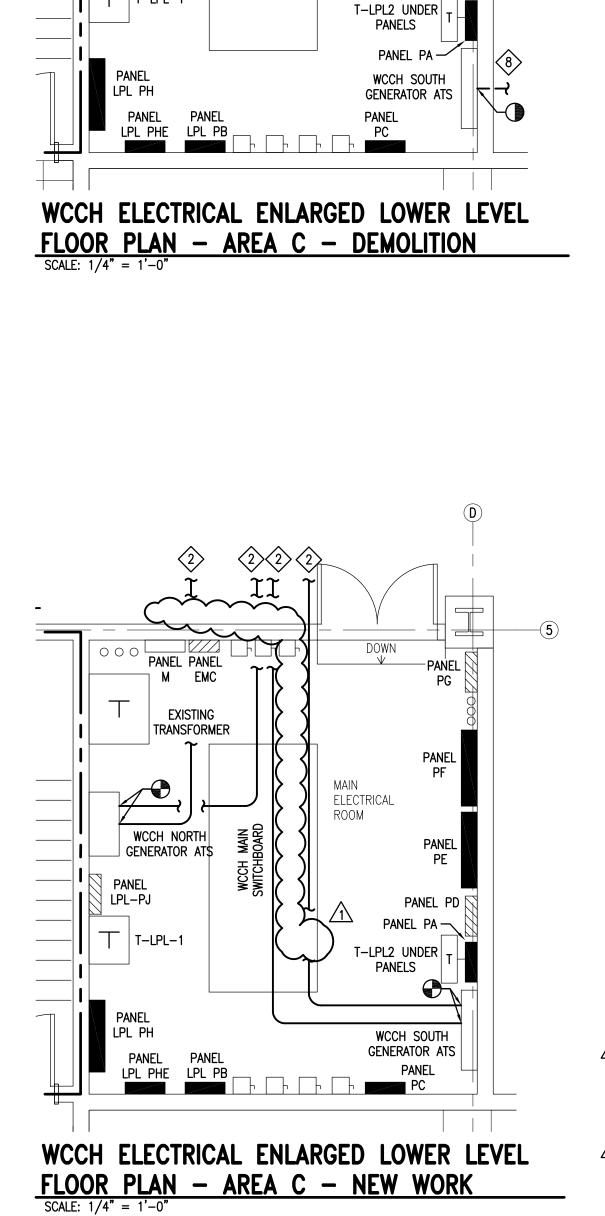
DMG

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WCCH ELECTRICAL ENLARGED LOWER LEVEL FLOOR PLAN — AREA B — NEW WORK

SCALE: 1/4" = 1'-0"



TRANSFORMER

WCCH NORTH GENERATOR

T-LPL-1

LPL PJ

ROOM

PANEL PD

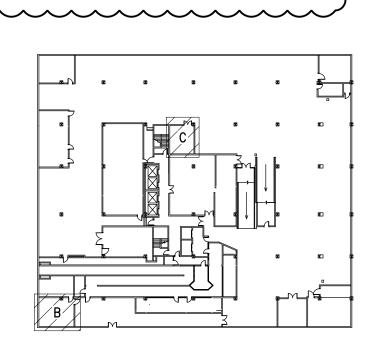
PHOTO DELETED.

DEMOLITION NOTES REMOVE WCCH SOUTH GENERATOR COMPLETE WITH ASSOCIATED CONDUIT AND WIRING BACK TO WCCH SOUTH GENERATOR ATS IN MAIN ELECTRICAL ROOM. SEE WCCH ELECTRICAL EMERGENCY POWER RISER DIAGRAM — DEMOLITION AND PHASING PLAN FOR WORK SEQUENCE. (2) REMOVE DEMARC AND RTU PANELS WITH ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE. (3) REMOVE BATTERY CHARGER WITH ASSOCIATED CONDUIT AND WIRING TO SOURCE. **NEW WORK NOTES** 1 DELETED FROM THIS SHEET. DETAIL AND ASSOCIATED NOTES DELETED. 2 DELETED FROM THIS SHEET. 3 DELETED FROM THIS SHEET. 4 DELETED FROM THIS SHEET. 5 DELETED FROM THIS SHEET. 6 DELETED.

GENERAL NOTES 2 SEE WCCH ELECTRICAL LOWER LEVEL FLOOR PLAN - OVERALL FOR CONTINUATION, SHEET E100. 3 DELETED. 4 DELETED. 5 DELETED FROM THIS SHEET. 6 DELETED FROM THIS SHEET.

FEEDER FROM WCCH NORTH GENERATOR. SEE WCCH ELECTRICAL ENLARGED LOWER LEVEL FLOOR PLAN – AREA A – DEMOLITION, SHEET E200. 8 FEEDER FROM WCCH SOUTH GENERATOR. SEE WCCH ELECTRICAL ENLARGED LOWER LEVEL FLOOR PLAN — AREA B — DEMOLITION, THIS SHEET.

9 FEEDER TO WCCH SOUTH GENERATOR ATS IN MAIN ELECTRICAL ROOM, THIS SHEET.



KEY PLAN - LOWER LEVEL

FIRE WALL LEGEND 2 HOUR FIRE RATED BARRIER

GRAPHIC SCALE

HDMA#18001.05 08/30/19

WAVERLY F AKINS OFFICE BUILDING
AND WAKE COUNTY COURTHOUSE
EMERGENCY POWER REPLACEMENT
336 FAYETTEVILLE STREET MALL

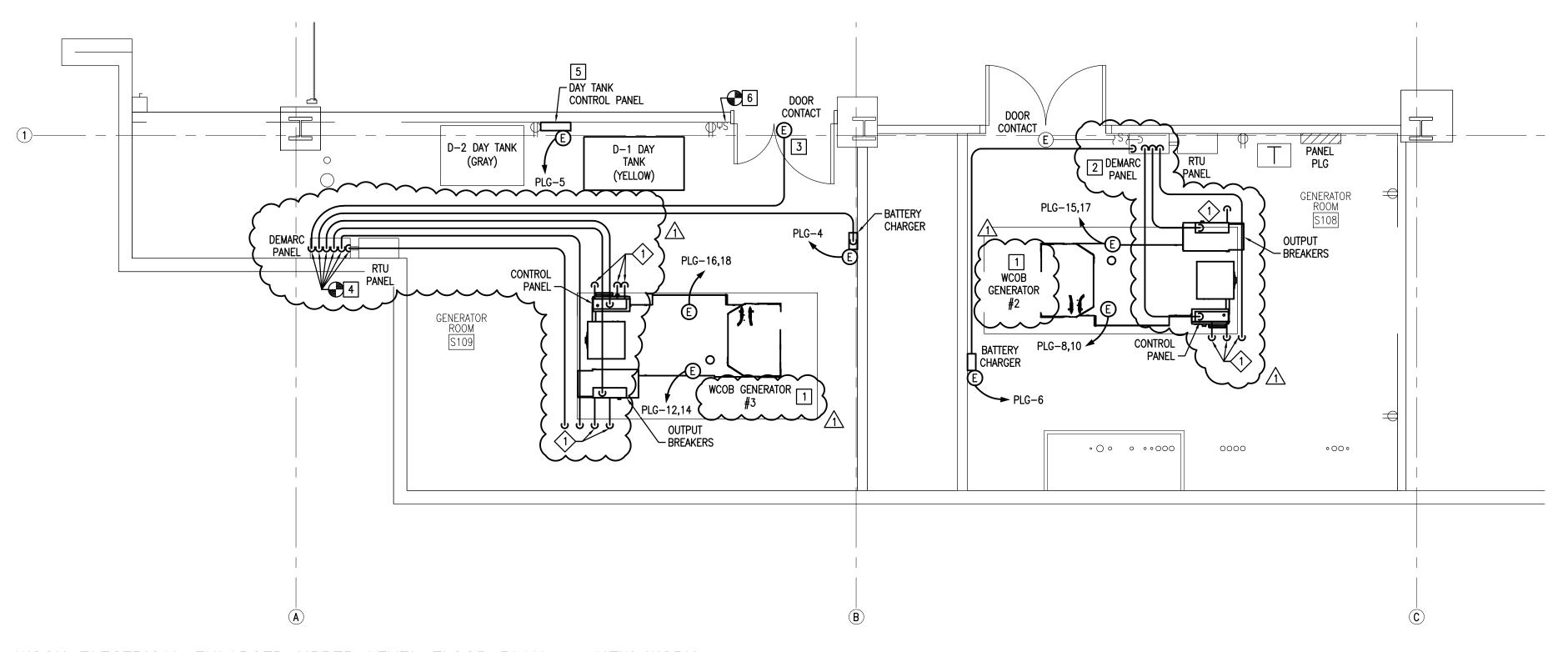
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JOB NUMBER: 18001.05 DRAWN: DESIGNED: CHECKED:

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WCCH ELECTRICAL ENLARGED UPPER LEVEL FLOOR PLAN - DEMOLITION



WCCH ELECTRICAL ENLARGED UPPER LEVEL FLOOR PLAN — NEW WORK

SCALE: 1/4" = 1'-0"

DEMOLITION NOTES

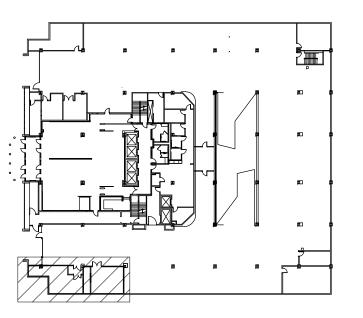
- (1) REMOVE GENERATOR WITH ASSOCIATED CONDUIT AND WIRING BACK TO EMERGENCY POWER PANEL GENERATOR ATS ON GROUND FLOOR. SEE PHASING PLAN FOR SEQUENCE OF WORK.
- REMOVE DAY TANK CONTROL PANEL WITH ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE. SAVE PANEL FOR RELOCATION. SEE WCCH ELECTRICAL ENLARGED UPPER LEVEL FLOOR PLAN - NEW WORK FOR NEW LOCATION.
- (3) REMOVE RECEPTACLE. MAINTAIN CIRCUIT FOR DEVICES TO REMAIN.
- 4 REMOVE ABANDONED INTERCOM WITH ASSOCIATED WIRING BACK TO SOURCE.
- (5) REMOVE COUNTER PANEL WITH ASSOCIATED CONDUIT AND WIRING.
- (6) REMOVE GENERATOR WITH ASSOCIATED CONDUIT AND WIRING BACK TO DATA CENTER GENERATOR ATS IN BASEMENT. SEE PHASING PLAN FOR WORK SEQUENCE.
- $\overline{7}$ remove battery charger with associated conduit and wiring back to source.
- (8) REMOVE ELECTRICAL CONNECTION TO DAMPER WITH ASSOCIATED CONDUIT AND WIRING BACK TO
- PREMOVE CONDUIT AND WIRING BETWEEN DEMARC PANEL, GENERATOR CONTROL PANEL, OUTPUT BREAKER AND DOOR CONTACT.
- (10) REMOVE LIGHT SWITCH. CONNECT CIRCUIT TO EXISTING LIGHT SWITCH NEXT TO DOOR.

GENERAL NOTES

⟨1⟩ SEE WCCH ELECTRICAL LOWER LEVEL FLOOR PLAN — OVERALL, SHEET E100. 2 DELETED.

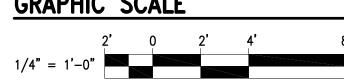
NEW WORK NOTES

- 1 PROVIDE 300KW, 277/480V GENERATOR AS SPECIFIED. SEE ELECTRICAL FLOOR PLANS AND WCCH AND WCOB ELECTRICAL EMERGENCY POWER RISER DIAGRAM — NEW WORK. SEE PHASING PLAN FOR WORK SEQUENCE.
- 2 PROVIDE CT AND VT IN GENERATOR OUTPUT BREAKERS AND CONTROL PANEL WITH CONDUIT AND WIRING TO DEMARC PANEL. PROVIDE 3/4" CONDUIT WITH DATA WIRING TO WCOB ATS-3. SEE THREE PHASE POWER MONITORING FOR SCADA INPUTS AND GENERATOR DIGITAL INPUT POINTS.
- PROVIDE DOOR CONTACT. CONNECT TO SCADA SYSTEM.
- 4 PROVIDE CT AND VT IN GENERATOR OUTPUT BREAKERS AND CONTROL PANEL WITH CONDUIT AND WIRING TO DEMARC PANEL. PROVIDE 3/4" CONDUIT WITH DATA WIRING TO WCOB ATS-2 AND
- 5 NEW LOCATION OF SAVED DAY TANK CONTROL PANEL.
- 6 EXTEND CIRCUIT TO GENERATOR ROOM LIGHTS AND CONNECT TO SWITCH.



KEY PLAN - UPPER LEVEL
NO SCALE

FIRE WALL LEGEND 2 HOUR FIRE RATED BARRIER GRAPHIC SCALE



08/30/19

HDMA#18001.05

WAVERLY F AKINS OFFICE BUILDING
AND WAKE COUNTY COURTHOUSE
EMERGENCY POWER REPLACEMENT
336 FAYETTEVILLE STREET MALL

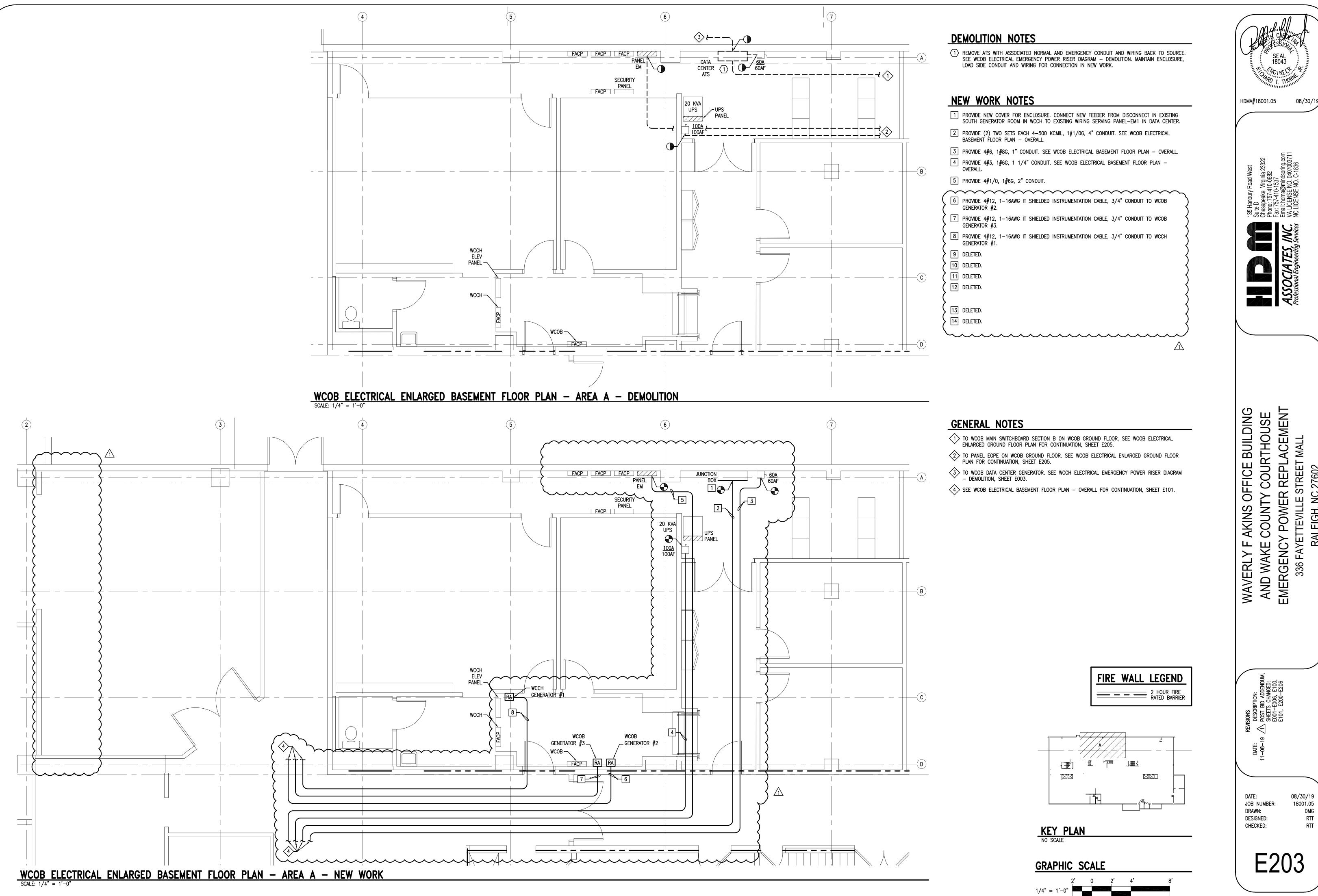
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08/30/19 18001.05 JOB NUMBER: DRAWN: DESIGNED: CHECKED:

E202

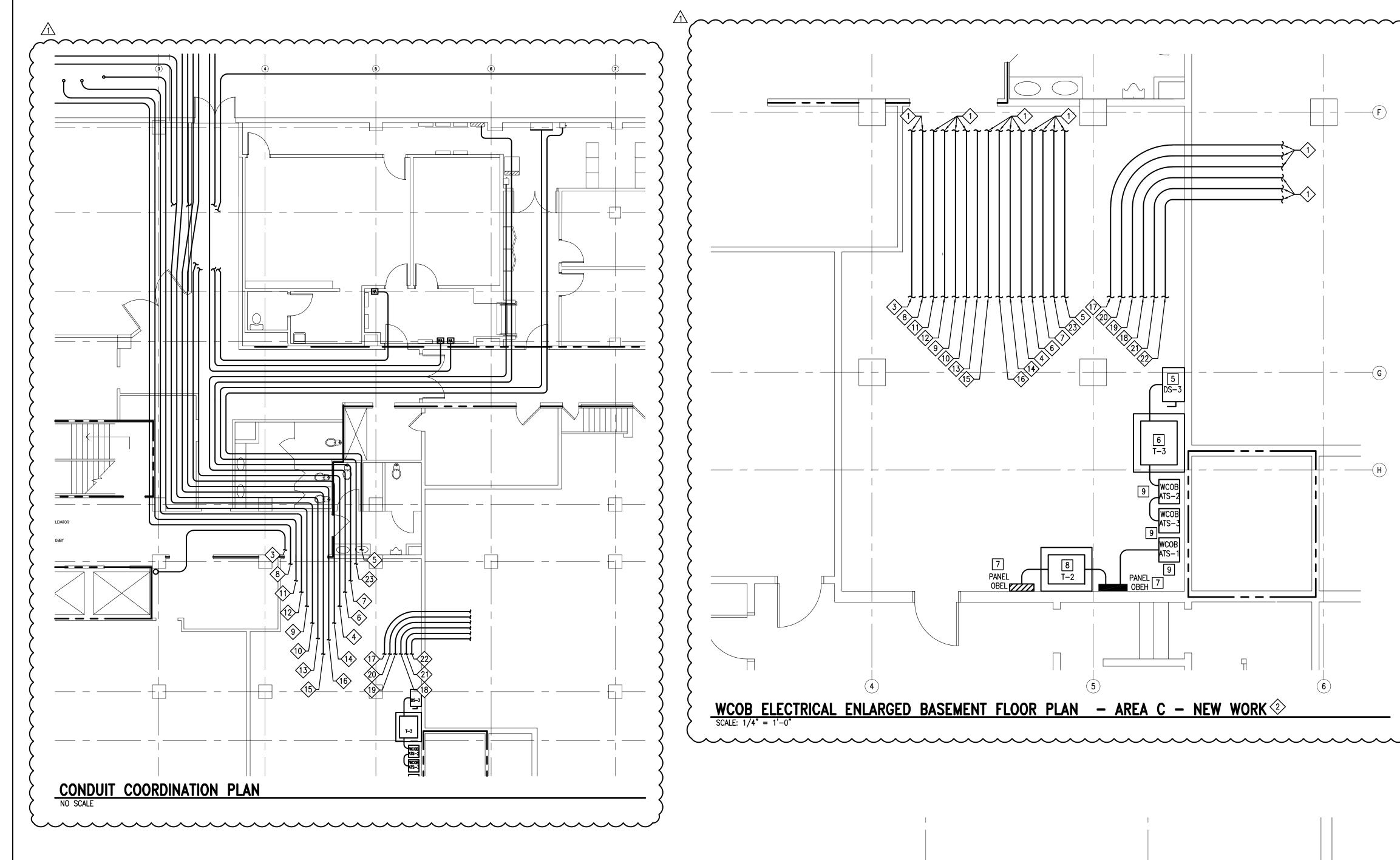
RCM

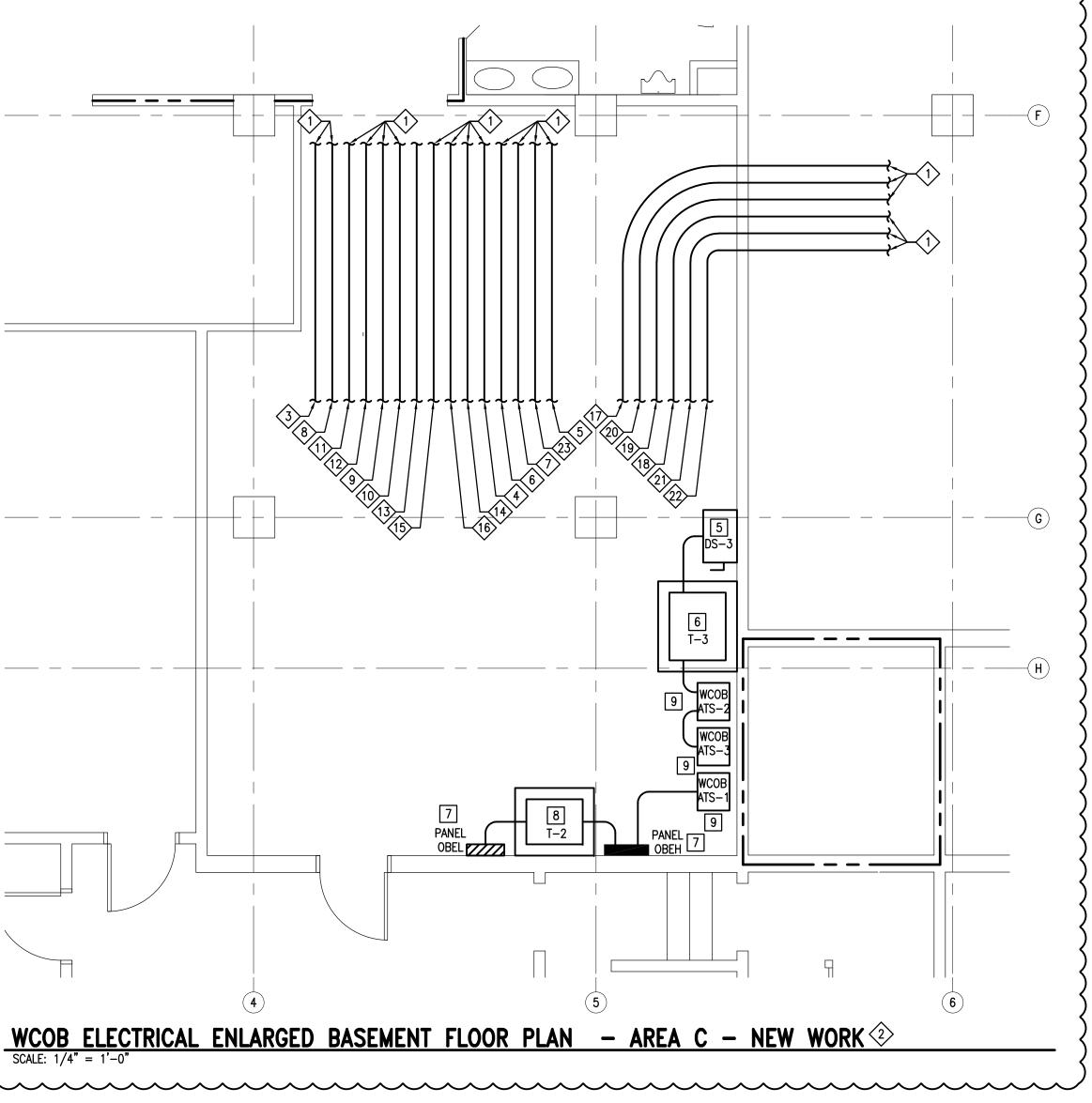
RTT

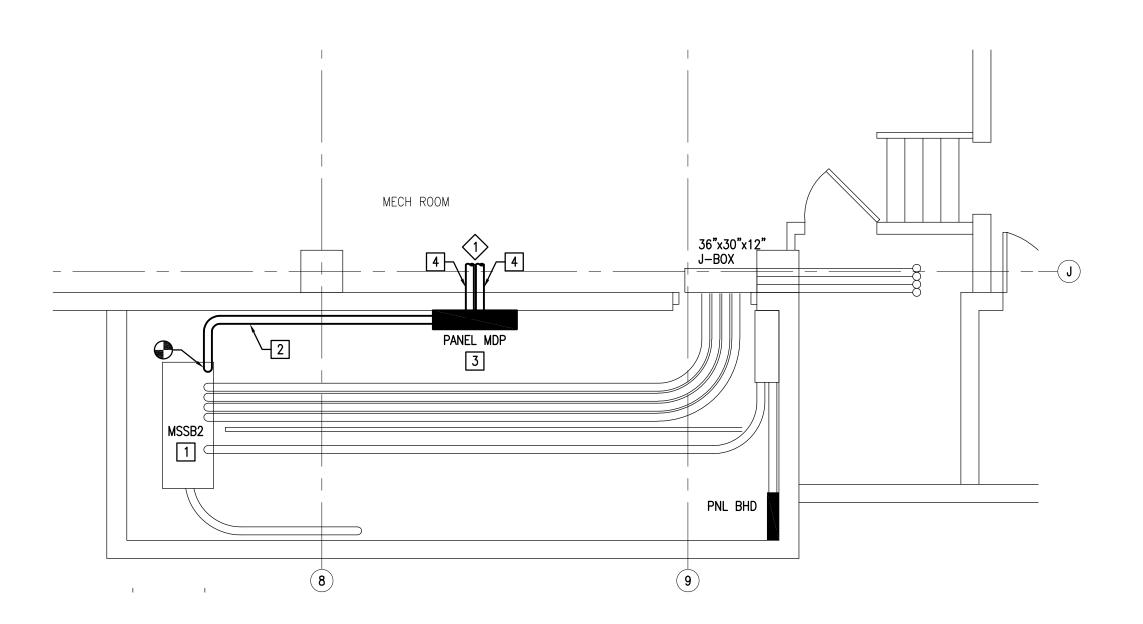


E203

DMG RTT







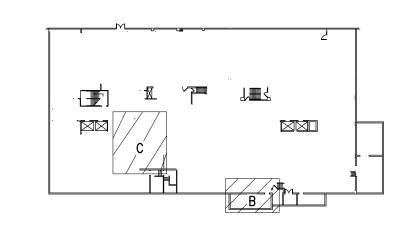
WCOB ELECTRICAL ENLARGED BASEMENT FLOOR PLAN - AREA B - NEW WORK

NEW WORK NOTES

- 1 REMOVE 700A BREAKER AND SAVE FOR REUSE. PROVIDE 1,200A SUBFEED LUGS IN REMOVED BREAKER POSITION.
- 2 PROVIDE (3) SETS OF 4-600 KCMIL, 1#3/0G, EACH SET IN 4" CONDUIT. FROM SUBFEED LUGS TO FEED NEW PANEL MDP.
- 3 PROVIDE PANEL MDP. SEE PANELBOARD SCHEDULE. INSTALL SAVED 700A BREAKER IN PANEL MDP. EXTEND EXISTING FEEDER (3-500 KCMIL, 1#1/0G, 4" CONDUIT) FOR SAVED 700A BREAKER
- <u>/1</u>_______ PROVIDE 4-600 KCMIL, 1#3G, 4" CONDUIT TO WCOB ATS-1 AND WCOB ATS-3. SEE WCOB ELECTRICAL BASEMENT FLOOR PLAN - OVERALL FOR CONTINUATION.
- PROVIDE WALL MOUNTED DISCONNECT SWITCH. SEE WCOB ELECTRICAL EMERGENCY POWER RISER DIAGRAM NEW WORK, FLOOR PLANS AND PHASING PLAN FOR WORK SEQUENCE.
- 6 PROVIDE 225 KVA TRANSFORMER, 480V PRIMARY AND 120/208V, 3PHASE 4 WIRE SECONDARY. PROVIDE 4" THICK CONCRETE EQUIPMENT PAD 6" LARGER THAN EQUIPMENT. SEE WCOB ELECTRICAL EMERGENCY POWER RISER DIAGRAM - NEW WORK AND PHASING PLAN FOR WORK
- PROVIDE PANEL. SEE WCOB ELECTRICAL EMERGENCY POWER RISER DIAGRAM NEW WORK, PANELBOARD SCHEDULE AND FLOOR PLANS. SEE PHASING PLAN FOR WORK SEQUENCE.
- 8 PROVIDE 112.5 KVA TRANSFORMER, 480V PRIMARY AND 120/208V, 3PHASE 4 WIRE SECONDARY. PROVIDE 4" THICK CONCRETE EQUIPMENT PAD 6" LARGER THAN EQUIPMENT. SEE WCOB ELECTRICAL EMERGENCY POWER RISER DIAGRAM - NEW WORK AND PHASING PLAN FOR WORK
- 9 PROVIDE WALL MOUNTED AUTOMATIC TRANSFER SWITCH AS SPECIFIED. SEE WCOB ELECTRICAL EMERGENCY POWER RISER DIAGRAM - NEW WORK AND FLOOR PLANS. SEE PHASING PLAN FOR WORK SEQUENCE.

GENERAL NOTES

- ⟨1⟩ SEE WCOB ELECTRICAL BASEMENT FLOOR PLAN OVERALL FOR CONTINUATION, SHEET E101.
- CONDUIT AND WIRING ROUTING SHOWN SPACED APART FOR CLARITY. COORDINATE EXACT ROUTING WITH ENGINEER.
- <3> CONDUIT AND WIRING FROM PANEL OBEH TO PANEL ERHE (LOCATED IN WCOB WEST ELEVATOR)
- 4 CONDUIT AND WIRING FROM PANEL OBEL TO FIRE PUMP CONTROLLER AND JACKET HEATER (BOTH LOCATED IN WCCH LOWER LEVEL FIRE PUMP ROOM).
- 5 CONDUIT AND WIRING FROM PANEL OBEL TO 60A/60AF DISCONNECT SWITCH (LOCATED IN WCOB BASEMENT UPS ROOM) FOR PANEL E1-MDF.
- (6) CONDUIT AND WIRING FROM PANEL OBEL TO 100A/100AF DISCONNECT SWITCH (LOCATED IN WCOB BASEMENT UPS ROOM) FOR SEC UPS.
- <7> CONDUIT AND WIRING FROM PANEL OBEL TO PANEL EM (LOCATED IN WCOB BASEMENT UPS
- (8) CONDUIT AND WIRING FROM ATS-1 TO WCOB GENERATOR #3 (LOCATED IN WCCH UPPER LEVEL) GENERATOR ROOM) FOR DATA CONNECTION.
- 9 CONDUIT AND WIRING FROM ATS-1 TO WCOB GENERATOR #3 (LOCATED IN WCCH UPPER LEVEL GENERATOR ROOM) FOR POWER CONNECTION.
- CONDUIT AND WIRING FROM ATS-1 TO WCOB GENERATOR #3 (LOCATED IN WCCH UPPER LEVEL GENERATOR ROOM) FOR ENGINE START CONNECTION.
- 11) CONDUIT AND WIRING FROM ATS-2 TO WCOB GENERATOR #3 (LOCATED IN WCCH UPPER LEVEL
- CONDUIT AND WIRING FROM ATS-2 TO WCOB GENERATOR #3 (LOCATED IN WCCH UPPER LEVEL GENERATOR ROOM) FOR POWER CONNECTION.
- CONDUIT AND WIRING FROM ATS-2 TO WCOB GENERATOR #3 (LOCATED IN WCCH UPPER LEVEL GENERATOR ROOM) FOR ENGINE START CONNECTION.
- CONDUIT AND WIRING FROM ATS-3 TO WCOB GENERATOR #2 (LOCATED IN WCCH UPPER LEVEL GENERATOR ROOM) FOR DATA CONNECTION.
- CONDUIT AND WIRING FROM ATS-3 TO WCOB GENERATOR #2 (LOCATED IN WCCH UPPER LEVEL GENERATOR ROOM) FOR POWER CONNECTION.
- CONDUIT AND WIRING FROM ATS-3 TO WCOB GENERATOR #2 (LOCATED IN WCCH UPPER LEVEL GENERATOR ROOM) FOR ENGINE START CONNECTION.
- CONDUIT AND WIRING FROM PANEL OBEH TO PANEL PHHE (LOCATED IN WCOB EAST ELEVATOR
- (18) CONDUIT AND WIRING FROM PANEL OBEL TO PANEL EMG (LOCATED IN WCOB BASEMENT MECHANICAL ROOM).
- CONDUIT AND WIRING FROM PANEL OBEL TO JUNCTION BOX (LOCATED IN WCOB GROUND FLOOR ELECTRICAL ROOM) FOR PANEL EM3LE.
- CONDUIT AND WIRING FROM PANEL OBEL TO JUNCTION BOX (LOCATED IN WCOB GROUND FLOOR ELECTRICAL ROOM) FOR PANEL EIGLE.
- (21) CONDUIT AND WIRING FROM ATS-1 TO PANEL MDP (LOCATED IN WCOB ELECTRICAL ROOM).
- 22 CONDUIT AND WIRING FROM ATS-3 TO PANEL MDP (LOCATED IN WCOB ELECTRICAL ROOM).
- CONDUIT AND WIRING FROM DS-3 TO JUNCTION BOX (LOCATED IN WCOB BASEMENT UPS ROOM)



KEY PLAN

FIRE WALL LEGEND 2 HOUR FIRE RATED BARRIER

GRAPHIC SCALE

08/30/19

HDMA#18001.05

OURTHOUSE EPLACEMENT EET MALL BUILDING WAVERLY F AKINS OFFICE AND WAKE COUNTY COUF CO EMERGENCY POWER 336 FAYETTEVILLE S

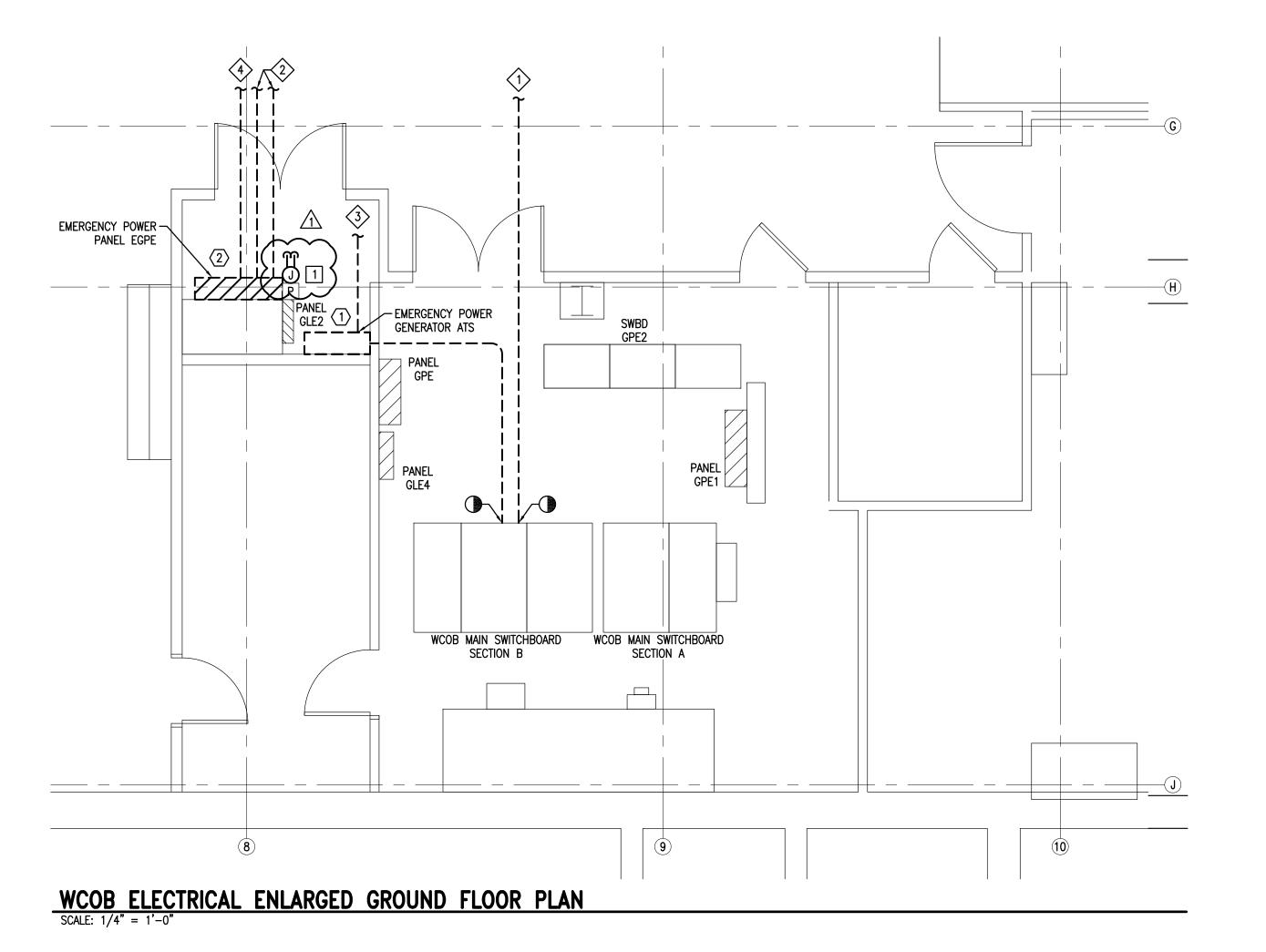
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08/30/19 JOB NUMBER: 18001.05 DRAWN: DESIGNED:

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DEMOLITION NOTES

- REMOVE EMERGENCY POWER GENERATOR ATS WITH ASSOCIATED CONDUIT AND WIRING BACK TO MAIN SWITCHBOARD SECTION B, EMERGENCY POWER GENERATOR AND EMERGENCY POWER PANEL EGPE. SEE WCOB ELECTRICAL EMERGENCY POWER RISER DIAGRAM DEMOLITION AND PHASING PLAN FOR WORK SEQUENCE.
- REMOVE EMERGENCY POWER PANEL EGPE WITH ALL ASSOCIATED BRANCH CONDUIT AND WIRING EXCEPT CIRCUITS TO PANELS EM3LE AND EIGLE. SEE WCOB ELECTRICAL EMERGENCY POWER RISER DIAGRAM DEMOLITION AND PHASING PLAN FOR WORK SEQUENCE.

NEW WORK NOTES

PROVIDE 8" x 8" x 4" JUNCTION BOX FOR CONNECTION OF PANELS EIGLE AND EM3LE EXISTING FEEDERS TO PANEL OBEL. SEE WCOB ELECTRICAL BASEMENT FLOOR PLAN — OVERALL FOR NEW FEEDERS.

GENERAL NOTES

- TO DATA CENTER GENERATOR ATS. SEE WCOB ELECTRICAL ENLARGED BASEMENT FLOOR PLAN AREA A DEMOLITION, SHEET E203.
- TO PANEL EM AND 20 KVA UPS. SEE WCOB ELECTRICAL ENLARGED BASEMENT FLOOR PLAN AREA A DEMOLITION, SHEET E203.
- TO WCOB EMERGENCY POWER GENERATOR. SEE WCCH ELECTRICAL EMERGENCY POWER RISER DIAGRAM DEMOLITION, SHEET E002.
- TO WCOB FIRE PUMP CONTROLLER AND JACKET HEATER COMMUNICATION. SEE WCCH ELECTRICAL EMERGENCY POWER RISER DIAGRAM DEMOLITION, SHEET E002.

08/30/19**/**

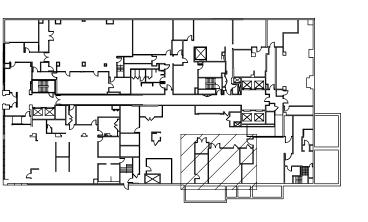
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WAVERLY F AKINS OFFICE BUILDING AND WAKE COUNTY COURTHOUSE EMERGENCY POWER REPLACEMENT 336 FAYETTEVILLE STREET MALL

DATE:
JOB NUMBER:
DRAWN:
DESIGNED:
CHECKED:

E205

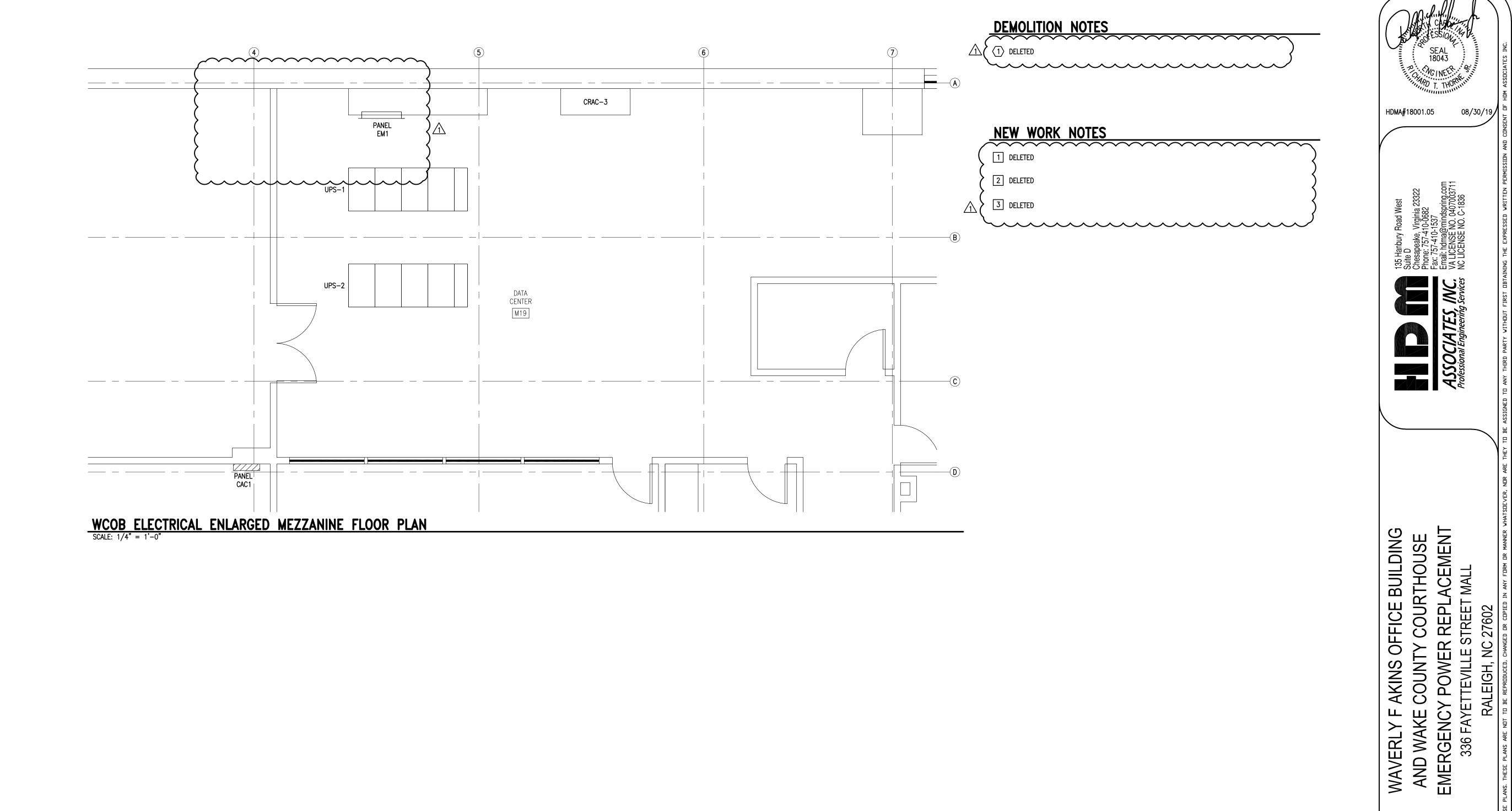
08/30/19 18001.05 RCM RTT RTT



KEY PLAN - GROUND FLOOR
NO SCALE



GRAPHIC SCALE



KEY PLAN - MEZZANINE
NO SCALE

FIRE WALL LEGEND 2 HOUR FIRE RATED BARRIER

GRAPHIC SCALE

HDMA#18001.05

DATE:
JOB NUMBER:
DRAWN:
DESIGNED:
CHECKED: 08/30/19 18001.05 RCM RTT RTT

REVISIONS
DATE:
DESCRIPTION:
11-08-19 A POST BID ADDENDUM,
SHEETS CHANGED:
E001-E006, E100,
E101, E200-E206