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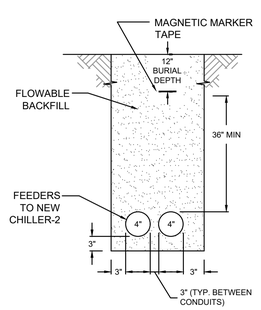
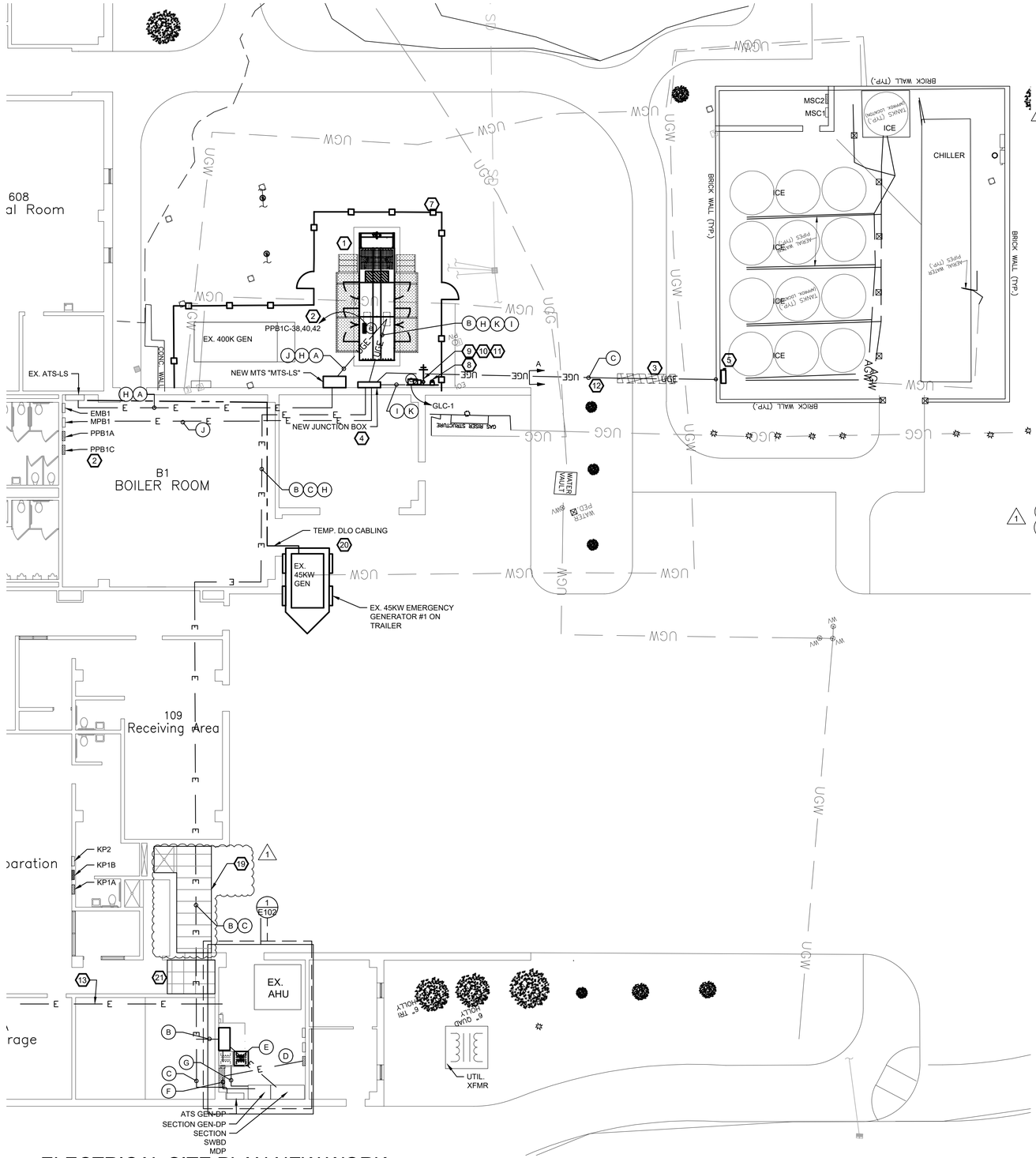
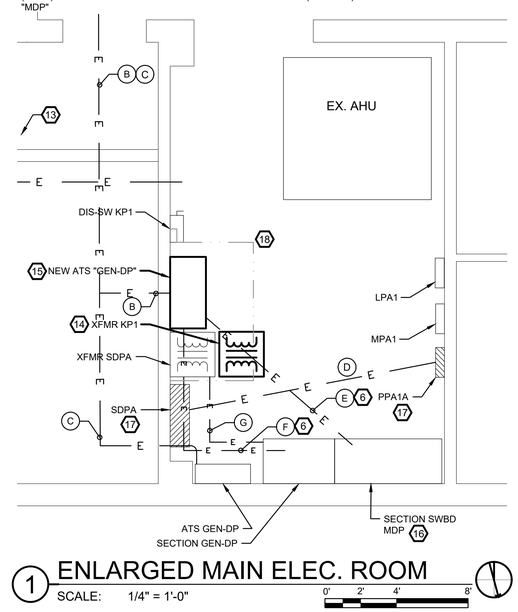


3 DIRECT BURY "A"
SCALE: NTS



2 ELECTRICAL SITE PLAN NEW WORK
SCALE: 1" = 10'-0"



1 ENLARGED MAIN ELEC. ROOM
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. ALL UNDERGROUND CONDUIT ROUTING AT EXTERIOR GENERATOR AREA SHALL BE ROUTED OUTSIDE OF GENERATOR PAD FOOT PRINT UNLESS WHEN PROVIDING SERVICES TO GENERATOR EQUIPMENT. WHEN REQUIRED, CONDUIT SHALL BE ROUTED MINIMALLY AS POSSIBLE UNDERNEATH PAD FOOT PRINT.

NEW WORK KEYED NOTES (#)

1. PROVIDE NEW GENERATOR. REFER TO RISER FOR MORE INFORMATION.
2. PROVIDE BRANCH CIRCUIT FOR GENERATOR LOAD PANEL TO PANEL "PPB1C". RUN CONDUIT UNDER GROUND, TURN UP ON SIDE OF BUILDING AND PUNCH INTO EXISTING BUILDING. ROUTE CONDUIT INTO BOILER ROOM AND TO PANEL. PROVIDE A NEW 60A, 3P, TYPE QO,10KAIC RATED BREAKER IN EXISTING SQUARE D TYPE NQOD 225A, 208/120V, PANEL "PPB1C". REMOVE THREE (3) EXISTING 20A, 1P, TYPE QO BREAKERS AND RETURN TO OWNER.
3. DEMOLISH, REPAIR, AND PATCH SIDEWALK AS NEEDED TO INSTALL CHILLER FEEDERS. REFER TO SIDEWALK PATCHING DETAIL ON CIVIL DETAILS.
4. PROVIDE A NEMA 3R JUNCTION BOX, PER NEC SECTION 314.28, FOR THE GENERATOR AND CHILLER FEEDERS. PROVIDE A DIVIDER IN JUNCTION BOX IF ANY WIRING OR CABLING IS NOT RATED FOR 600V.
5. PROVIDE A NEW 800A, 600V, 3P NEMA 3R, FUSED DISCONNECT SWITCH, REFER TO RISER FOR MORE DETAIL.
6. PROVIDE NEW FEEDER FROM SWBD SECTION "MDP" TO ATS "GEN-DP" AND FROM ATS "GEN-DP" TO EX. SECTION "GEN-DP" , REFER TO RISER DIAGRAM AND PANEL SCHEDULES FOR MORE INFORMATION
7. PROVIDE NEW FENCE AROUND NEW AND EXISTING GENERATORS. REFER TO CIVIL PLANS FOR EXACT FENCE DIMENSIONS AND TYPE OF FENCING.
8. GENERATOR EPO BUTTON, PROVIDE 2#14, #12G, 1"C FROM EPO TO GENERATOR CONTROL PANEL.
9. PROVIDE WAKE COUNTY DEMARC PANEL, SCADA RTU PANEL AND ANTENNA PER SCADA DETAIL ON SHEETS E501 AND E502. FIELD COORDINATE EXACT LOCATIONS PRIOR TO ROUGH-ON. LOCATE RTU ANTENNA ABOVE BLOCK WALL.
10. PROVIDE SCADA MONITORING CONTROLS AND POWER WIRING PER SCADA DETAIL ON SHEET E502, FOR WAKE COUNTY SCADA USE.
11. PROVIDE 1" CONDUIT FOR GENERATOR AND SCADA ACCESSORY POWER AND CONTROLS WIRING PROVIDE 2#14 (ATS GEN START), 3#14 (ATS EMERGENCY POSITION STATUS AT SCADA), AND 3#14 (ATS INHIBIT SCADA). PROVIDE BRANCH CIRCUIT TO POWER SCADA FROM NEW GENERATOR LOAD CENTER LOCATED INSIDE GENERATOR ENCLOSURE.
12. PROVIDE NEW FEEDER FOR NEW CHILLER. REFER TO RISER DIAGRAM FOR WIRE AND CONDUIT SIZE.
13. PROPOSED CONDUIT ROUTING FOR NEW ELECTRICAL EQUIPMENT ON SECOND STORY, REFER TO SHEET E100 AND E200 FOR CONTINUATION OF CONDUIT ROUTE.
14. NEW STACKED LOCATION OF EXISTING TRANSFORMER "KP1". PROVIDE NEW PRIMARY AND SECONDARY FEEDERS FOR TRANSFORMER TO EXISTING DISCONNECT SWITCH. PROVIDE NEW WIRE ON PRIMARY SIDE OF TRANSFORMER FROM SWBD. PROVIDE NEW CONDUIT AND WIRE FROM SECONDARY SIDE OF TRANSFORMER TO DIS-SW KP1. NEW WIRE AND CONDUIT SHOULD MATCH EXISTING/DEMOLISHED SIZE (REFER TO RISER). PROVIDE STRUCTURAL SUPPORT FOR STACKED TRANSFORMERS AS SHOWN IN DETAIL 8 ON SHEET E-503.
15. PROVIDE A NEW, ATS "GEN-DP". REFER TO RISER DIAGRAM FOR MORE INFORMATION.
16. REMOVE AND PROVIDE NEW BREAKERS IN EXISTING SWBD. REFER TO SHEET E904 FOR BREAKER INFORMATION FOR DEMOLITION AND NEW WORK.
17. RECONNECT EX. PNL "PPA1A" TO EX. PNL "SDPA", USE EXISTING SPARE BREAKER AND NEW FEEDER. REFER TO RISER DIAGRAM AND PANEL SCHEDULES FOR MORE INFORMATION.
18. EXTEND EXISTING EQUIPMENT PAD TO ACCOMMODATE RELOCATED NEW ATS "GEN-DP" AS REQUIRED.
19. PROVIDE NEW FEEDER FOR NEW GENERATOR. PROVIDE NEW FLUSH .032 ALUMINUM SOFFIT PANELS THAT ARE ASTM E330 TESTED (BOD: PAC-CLAD FLUSH SOLID IN THE COLOR IN ALMOND) ABOVE LOADING DOCK. NEW SOFFIT TILES SHALL MATCH EXISTING TILE COLORS AS CLOSELY AS POSSIBLE, CONFIRM WITH OWNER BEFORE FINAL COLOR SELECTION IS MADE.
20. RELOCATE EXISTING 45KW GENERATOR FROM DEMOLITION PLANS AS SHOWN. PROVIDE TRAILER AND DLO CABLING TO RECONNECT GENERATOR TEMPORARILY TO LIFE SAFETY ATS UNTIL FINAL INSTILLATION OF NEW GENERATOR, REFER TO SEQUENCE OF CONSTRUCTION. TEMPORARILY GROUND GENERATOR WITH GROUND RODS.
21. DROP EXISTING CEILING TILE AREA AS SHOWN APPROXIMATELY 12" OR TO TOP OF FREEZER/COOLER. CONTINUE ROUTING CONDUIT BELOW DUCT WORK AND ABOVE DROPPING CEILING. PROVIDE A NEW NEMA 1 JUNCTION BOX ACCORDING TO THE NEC SECTION 314.28 ON INTERIOR SIDE OF WALL AS A PULL POINT, IF REQUIRED, RELOCATE EXISTING JUNCTION BOX SERVING KITCHEN DOOR AS REQUIRED TO INSTALL NEW JUNCTION BOX. EXTEND EXISTING CIRCUIT FOR EXIT SIGN AS REQUIRED TO ACCOMMODATE DROPPED CEILING HEIGHT.

NEW RACEWAY SCHEDULE (X)

A. (1 1/2"C) NEW GEN TO EX. ATS-LS
B. (3 - 4"C) NEW GEN TO NEW GEN-DP ATS
C. (2 - 4"C) NEW CHILLER FEEDER FROM DISCONNECTS TO EX ATS
D. (1 1/2"C) NEW PPA1A FEEDER
E. (3- 4"C) NEW GEN-DP ATS FEEDER FROM EX. SWBD "MDP"
F. (3- 4"C) NEW GEN-DP FEEDER FROM LOAD SIDE OF ATS
G. (1- 2"C) NEW FEEDER FOR EX. XFMR "KP1"
H. (1- 1"C) FOR ATS CONTROLS
I. (1- 1" C) FOR SCADA POWER
J. (1- 1"C) POWER FOR GEN. LOAD CENTER
K. (1- 1 1/4"C) FOR SCADA CONTROLS

Dewberry

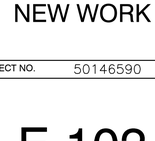
Dewberry Engineers Inc.
2610 WYCLIFF ROAD
SUITE 410
RALEIGH, NC 27607
PHONE: 919.881.9939
FAX: 919.881.9923
NCBELS #F-0929

WAKE COUNTY
NORTH CAROLINA

WCPSS
MIDDLE CREEK
HIGH SCHOOL
EMERGENCY SHELTER
GENERATOR
PROJECT

123 MIDDLE CREEK PARK AVE
APEX, NC 27539

SEAL



KEY PLAN

SCALE

No.	DATE	BY	Description
1	5/22/2023	MH	ADDENDUM#1

REVISIONS

DRAWN BY	MEH
APPROVED BY	POA
CHECKED BY	JGW
DATE	05/01/2023

TITLE

ELECTRICAL
SITE WORK
NEW WORK

PROJECT NO. 50146590

E-102