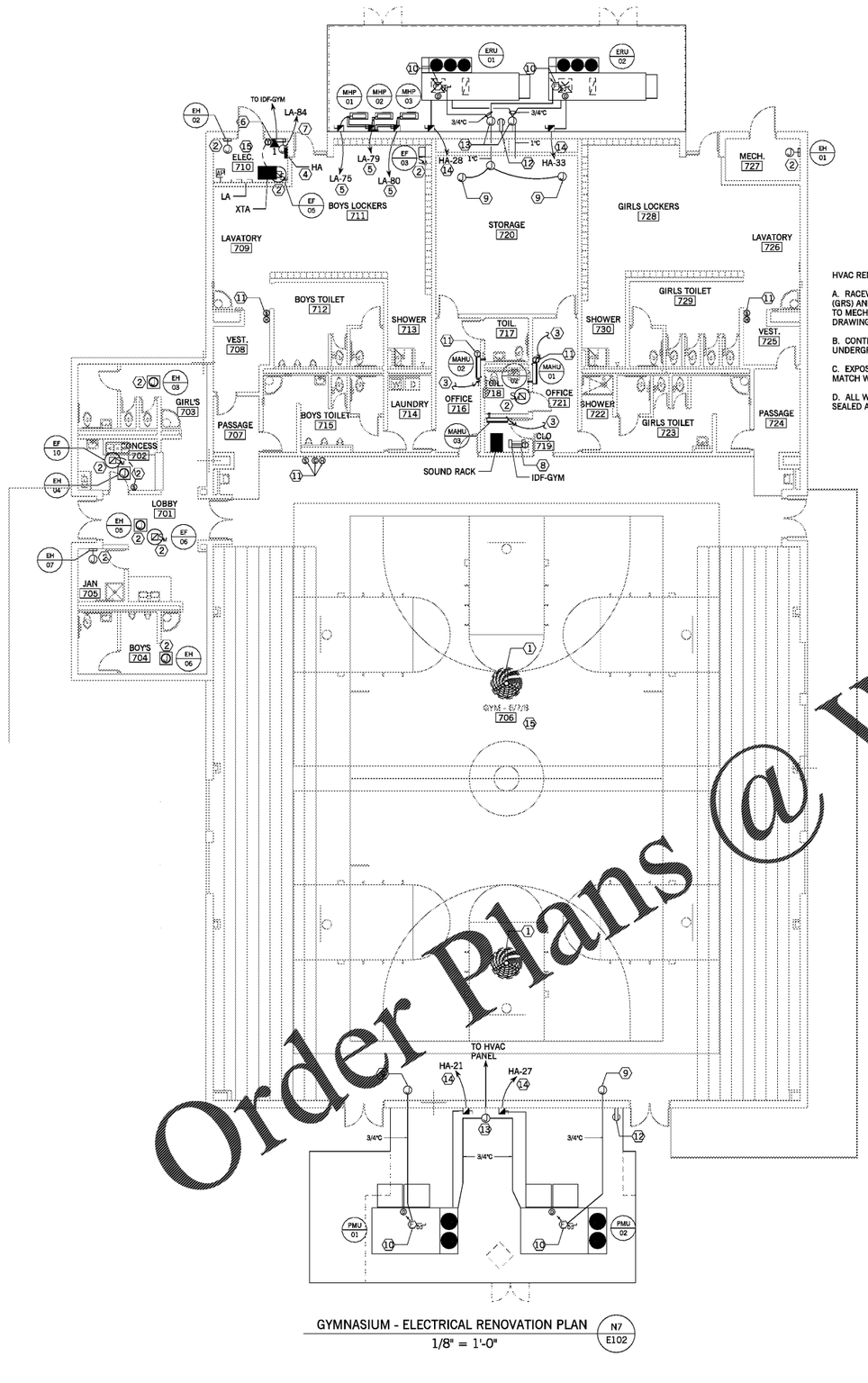



GYMNASIUM - ELECTRICAL RENOVATION PLAN (N7 / E102)
1/8" = 1'-0"

HVAC RENOVATION PLAN - GENERAL NOTES:

A. RACEWAY INSTALLED ON EXTERIOR OF BUILDING SHALL BE GALVANIZED RIGID STEEL (GRS) AND TRANSITION TO LIQUID TIGHT FLEXIBLE METAL CONDUIT (LFMC) FOR CONNECTION TO MECHANICAL EQUIPMENT. COORDINATE CONNECTION POINT(S) WITH VENDOR SHOP DRAWINGS PRIOR TO ROUGH-IN.

B. CONTRACTOR SHALL INCLUDE A PRIVATE UTILITY LOCATE IN THE AREAS WHERE NEW UNDERGROUND RACEWAY WILL BE ADDED.

C. EXPOSED RACEWAY ON INTERIOR AND EXTERIOR OF BUILDING SHALL BE PAINTED TO MATCH WALL AND STRUCTURE/CEILING.

D. ALL WALL PENETRATIONS SHALL BE CORE DRILLED. ALL WALL PENETRATIONS SHALL BE SEALED ABOUT CONDUIT TO RESTORE WALL RATING.

HVAC POWER RENOVATION PLAN NOTES:

1. EXISTING OVERHEAD FANS TO REMAIN IN PLACE. DO NOT DEMOLISH POWER TO THESE UNITS.

2. RECONNECT NEW MECHANICAL EQUIPMENT TO EXISTING CIRCUIT MAINTAINED FROM DEMOLITION.

3. PROVIDE POWER AND COMM. CABLING AND CONDUIT BETWEEN INDOOR UNIT AND OUTDOOR UNIT. REFER TO MECHANICAL EQUIPMENT SHOP DRAWINGS.

4. NEW PANEL HA. REFER TO PANEL SCHEDULE AND POWER RISER DIAGRAM FOR REQUIREMENTS.

5. PROVIDE NEW 15A/2P/208V CIRCUIT TO PANEL AND POSITION INDICATED. CIRCUIT SIZE IS 3#12 AWG CU THWN IN (1)1/2"C FED FROM A NEW 15A/2P/208V CIRCUIT BREAKER.

6. PROVIDE POWER AND DATA NETWORK CONNECTIONS TO HVAC CONTROL PANEL IN THIS SPACE. COORDINATE ROUGH-IN REQUIREMENTS WITH HVAC CONTRACTOR PRIOR TO INSTALLATION. INSTALL DATA DROP INSIDE NEW HVAC CONTROL PANEL.

7. PROVIDE NEW 20A/1P/120V CIRCUIT TO PANEL AND POSITION INDICATED. CIRCUIT SIZE IS 3#12 AWG CU THWN IN (1)1/2"C FED FROM A NEW 20A/1P/120V CIRCUIT BREAKER.

8. EXISTING IDF CABINET, PROTECT FROM DAMAGE DURING CONSTRUCTION.

9. PROVIDE SINGLE GANG OUTLET BOX FLUSH MOUNTED IN WALL AT 80" AFF (WHERE INSTALLED IN SUSPENDED CEILING, PROVIDED T-GRID BOX HANGER W/ FLUSH MOUNT OUTLET BOX). PROVIDE 3/4" CONDUIT TO PAD MOUNTED HVAC UNIT FOR INTERCONNECTION OF DUCT DETECTOR PROVIDED AND INSTALLED IN HVAC UNIT WITH MONITOR MODULE PROVIDED AND INSTALLED BY DIV. 26. PROVIDE ALL NECESSARY WIRING AND COMPONENTS TO INTERFACE WITH DUCT DETECTOR. DUCT DETECTOR SHALL BE FULLY COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM. COORDINATE EXACT REQUIREMENTS WITH DIV. 23 CONTRACTOR PRIOR TO ROUGH-IN.

10. DUCT DETECTOR FURNISHED AND INSTALLED IN HVAC UNIT BY MANUFACTURER. PROVIDE FIRE ALARM MONITOR MODULE INSTALLED INSIDE BUILDING. FIRE ALARM CONTRACTOR SHALL COORDINATE INSTALLATION REQUIREMENTS W/ MECH CONTRACTOR.

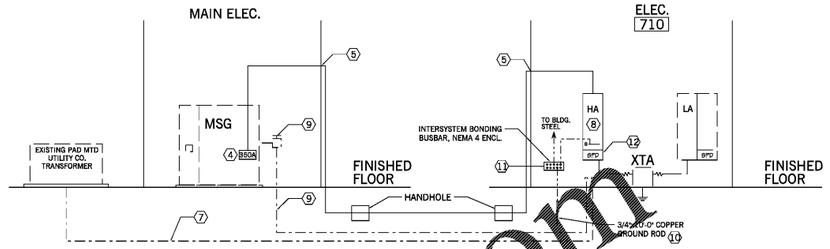
11. PROVIDE FLUSH MOUNT OUTLET BOX AT 46"AFF FOR HVAC CONTROLS. PROVIDE A MINIMUM OF 3/4"C FROM OUTLET BOX TO OUTSIDE UNIT OR MAIN CONTROL PANEL. COORDINATE BOX SIZE, ORIENTATION AND CONDUIT ROUTING REQUIREMENTS WITH HVAC CONTRACTOR PRIOR TO ROUGH-IN. LEAVE CONDUIT WITH BUSHED OPENING AND PULL STRING INSTALLED. (TYP)

12. REPLACE RECEPTACLE AT THIS LOCATION WITH NEW 20A GFCI/WR DUPLEX RECEPTACLE AND NEW CAST METAL WHILE-IN-USE COVER.

13. 8"x8"x4" NEMA 4 JUNCTION BOX MOUNTED ON EXTERIOR OF BUILDING 24"AFF FOR TERMINATION OF LOW VOLTAGE CONDUITS ROUTED BELOW GRADE FROM HVAC EQUIPMENT. PROVIDE (2) 1" C ROUTED UP WALL FROM THIS BOX AND PENETRATE EXTERIOR WALL ABOVE SUSPENDED CEILING. PROVIDE LBS AT WALL PENETRATION AND TERMINATE ALL CONDUITS WITH BUSHED OPENINGS AND LEAVE WITH PULL STRINGS. LABEL EACH CONDUIT DESTINATION INSIDE JUNCTION BOX.

14. NEW BRANCH CIRCUIT, REFER TO PANELBOARD SCHEDULE FOR SIZE/COUNT OF CONDUIT AND CONDUCTORS.

15. ALL LOW VOLTAGE CABLING IN THIS SPACE SHALL BE INSTALLED IN CONDUIT.




ELECTRICAL RISER DIAGRAM NOTES:

1. REFER TO PANELBOARD SCHEDULES FOR CONDUIT AND CONDUCTOR SIZES.

2. REFER TO SITE PLAN AND 1/8" SCALE DRAWINGS FOR LOCATIONS OF PANELS.

3. ELECTRICAL EQUIPMENT AND FEEDERS SHOWN IN SOLID LINESTYLE ARE NEW. ELECTRICAL EQUIPMENT AND FEEDERS SHOWN IN DASHED LINESTYLE ARE EXISTING TO REMAIN AND ELECTRICAL EQUIPMENT AND FEEDERS SHOWN IN DASH-DOT-DASH LINESTYLE ARE TO BE DEMOLISHED.

4. PROVIDE NEW 350A/3P/480V CIRCUIT BREAKER IN EXISTING EMPTY SPACE IN MSG. PROVIDE ALL NECESSARY PARTS AND PIECES REQUIRED TO MOUNT NEW CIRCUIT BREAKER IN THE OPEN SPACE. PROVIDE AN ENGRAVED BLACK PHENOLIC NAMEPLATE ADJACENT TO BREAKER THAT READS "GYM - PANEL 'HA' ".

5. CORE DRILL EXTERIOR WALL FOR CONDUIT PENETRATIONS. PROVIDE LB CONDULETS AS REQUIRED TO TURN DOWN WALL AND ROUTE CONDUIT UNDERGROUND TO PANEL 'HA' IN GYM. PAINT ALL EXPOSED CONDUIT TO MATCH STRUCTURE.

6. MARK ANY UNUSED CIRCUIT BREAKERS FROM THE REMOVAL OF OLD MECHANICAL EQUIPMENT AS SPARE.

7. DISCONNECT AND REMOVE EXISTING SERVICE CONDUCTORS TO OLD PANEL HA. AT GYM, CAP CONDUIT JUST ABOVE SLAB. AT UTILITY TRANSFORMER, PROVIDE CONDUIT SEALS.

8. DEMOLISH EXISTING PANEL 'HA'. PULL BACK AND MAINTAIN ALL EXISTING CIRCUITS TO REMAIN IN THIS PANEL FOR CONNECTION TO NEW PANEL 'HA' INSTALLED IN THE SAME LOCATION. TERMINATE ALL CIRCUITS ON NEW BREAKERS IN PANEL.

9. DISCONNECT AND DEMOLISH EXISTING SHUNT TRIP BUTTON AND SHUNT TRIP CABLING TO OLD PANEL 'HA'. REMOVE ANY PLAQUES THAT REFERENCE A SECOND SERVICE FOR THE GYMANSIUM IN THIS SPACE.

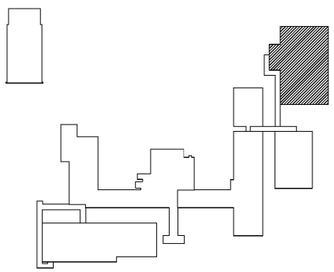
10. PROVIDE A DRIVEN GROUND ROD FIVE FEET BEYOND THE BUILDING EXTERIOR WALL. PROVIDE GROUNDING CONDUCTOR SIZED PER SECTION 26 05 26 FROM PANEL GROUND BUS TO GROUND ROD. REFER TO GROUNDING SCHEMATIC.

11. PROVIDE INTERSYSTEM BONDING BUSBAR W/ BONDING CONDUCTOR BACK TO GROUND BUS IN PANEL 'HA'. REFER TO SECTION 26 05 26 FOR BUSBAR AND ADDITIONAL REQUIREMENTS.

12 SURGE PROTECTIVE DEVICE (SPD) PER SECTION 26 24 16. SPD SHALL INSTALLED BY AND SHIPPED FROM THE PANELBOARD MANUFACTURER'S FACTORY.

13. FOR ALL EXISTING PANELS, FURNISH AND INSTALL NEW NAMEPLATE PER SECTION 26 24 17 AND NEW REVISED PANEL DIRECTORY THAT INDICATES ALL CIRCUITS (NEW AND EXISTING).

ELECTRICAL RISER DIAGRAM (G18 / E102)
NO SCALE



KEY PLAN

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Austell, Ga. 30168
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architects & engineers



REVISED

DATE
December 10 2019

JOB NUMBER
01 610 291

HVAC RENOVATIONS FOR:

# EAST COWETA MIDDLE SCHOOL GYMNASIUM

COWETA COUNTY SCHOOL SYSTEM
NEWNAN, GEORGIA

STATE OF GEORGIA — GREGORY V. SCHILLINGER — CERTIFICATE HOLDER — REGISTERED ARCHITECT

GEORGIA — REGISTERED — No. 27857 — PROFESSIONAL — ENGINEER — FRANK E. CAMPO, JR.

DRAWING NUMBER
E102

BID SET: 12/11/2019