ALPHA BLDG SET 08-27-2024

BUILDING RENOVATIONS – PHASE ONE

8134 GEIGER STREET, N.W.

COVINGTON, GEORGIA

SCOPE OF WORK:
PHASE ONE!:
DEMOLITION OF PORTIONS OF EXISTING WINGS,
RENOVATIONS TO REMAINING BUILDING,
ADDITION OF BUILDING FOR ELECTIONS DEPT.

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ABBREVIATIONS

@ – AT
A/C – AIR CONDITION
A.C.T. – ACOUSTICAL CEILING TILE
A.F.F. – ABOVE FINISH FLOOR
ALUM. OR AL. – ALUMINUM
ANOD. – ANODIZED
APPROX. – APPROXIMATE
A.S.F. – ALUMINUM STORE FRONT
BD. – BOARD
BLDG. – BUILDING
BMC. – BUTLER MANUFACTURING CO.
BOT. – BOTTOM
C.O. – CASED OPENING
C.J. – CONTROL JOINT
C.T. – CERAMIC TILE
C. – CENTER LINE OR COLUMN LINE
CLG. – CEILING
CLR. – CLEAR
CMU. – CONCRETE MASONRY UNITS
COL. – COLUMN
CONC. – CONCRETE
CONT. – CONTINUOUS
CONTR. – CONTRACTOR
D.S. – DOWNSPOUT
DBL. – DOUBLE
DEMO. – DEMOLITION
DEPT. – DEPARTMENT
DIA. – DIAMETER
DIM. – DIMENSION
DISP. – DISPENSER
DISPL. – DISPOSAL
DRWGS. – DRAWINGS
DTL. – DETAIL
EA. – EACH
E.F. – EXHAUST FAN
EQ. – EQUAL
E.W.C. – ELECTRIC WATER COOLER
E.I.F.S. – EXTERIOR INSULATION FINISH SYSTEM
ELEC. – ELECTRICAL
ELEV. – ELEVATION
EQUIP. – EQUIPMENT
E.S. – EXPOSED STRUCTURE
E.S.Q. – EPOXY SEAMLESS QUARTZ
EXIST. – EXISTING
EXT. – EXTERIOR
F.D. – FLOOR DRAIN
F.E. – FIRE EXTINGUISHER
F.F. – FINISH FLOOR
FLR. – FLOOR
F.O.B. – FACE OF BRICK
F.O.C. – FACE OF CONCRETE
F.O.M. – FACE OF MASONRY
F.O.S. – FACE OF STUD
FOUND. OR FDN. – FOUNDATION
F.R.P. – FIBERGLASS REINFORCED PANELS
F.R.T. – FIRE RETARDANT TREATED
FTG.– FOOTING
FT. – FOOT
F.V. – FIELD VERIFY
GA. – GAGE OR GAUGE
G.B. – GRAB BAR
G.C. – GENERAL CONTRACTOR
GYP.BD. – GYPSUM WALL BOARD
H. – HIGH
H. OR H.C. – HANDICAP
H.B. – HAIRPIN BAR
H.D. – HUB DRAIN
H.M. – HOLLOW METAL
HT. – HEIGHT
HORIZ. – HORIZONTAL
INSUL. – INSULATION
JST. – JOIST
JT. – JOINT
L'DRY. – LAUNDRY
LLH. – LONG LEG HORIZONTAL
LLV. – LONG LEG VERTICAL
M. – MIRROR
M.C.J. – MASONRY CONTROL JOINT
M.C. – MASONRY COLUMN
M.S. – METAL STUD
M.S.S. – MISC. STEEL SUPPLIER
MANUF. OR MFR. – MANUFACTURER
MAX. – MAXIMUM
MECH. – MECHANICAL
MEZZ. – MEZZANINE
MIN. – MINIMUM
MISC. – MISCELLANEOUS
M.O. – MASONRY OPENING
MTL. – METAL
N.I.C. – NOT IN CONTRACT
N.R.P. – NON–REMOVABLE (HINGE) PIN
N.T.S. – NOT TO SCALE
O.C. – ON CENTER
O.H. – OVERHEAD OR OPPOSITE HAND
O.F.C.I. – OWNER FURNISH, CONTRACTOR INSTALL
O.F.O.I. – OWNER FURNISH, OWNER INSTALL
PART. – PARTITION
PL. – PLATE
PLUMB. – PLUMBING
PNL. – PANEL
POLY. – POLYETHYLENE
PRE–FIN OR P.F. – PRE–FINISHED
PSF. – POUND PER SQUARE FOOT
PSI. – POUND PER SQUARE INCH
P.T. – PRESSURE TREATED
PT. – PAINT
P.T.D. – PAPER TOWEL DISPENSER
Q.T. – QUARRY TILE
R. – RISER
REF. – REFERENCE
REINF. – REINFORCE
REQ'D. – REQUIRED
R.O. – ROUGH OPENING
S. – STRUCTURE LINE
S.D. – SOAP DISPENSER
S.F. – SQUARE FOOT
SJ. – SAWED JOINT
S.N.D. – SANITARY NAPKIN DISP.
S.P.J. – SECOND POUR JOINT
S.R. – SPRINKLER RISER
S.S. – STAINLESS STEEL
ST. – STAIN
SCWD. – SOLID CORE WOOD
SPECS. – SPECIFICATIONS
STL. – STEEL
STRUCT. – STRUCTURAL
S/S. – SLOP SINK OR SANITARY SEWER
T.D.S. – TURNED DOWN SLAB
T/F. – TOP OF FOOTING
T.P.D. – TOILET PAPER DISPENSER
T.O.C. – TOP OF CONCRETE
T.O.S. – TOP OF STEEL
T.O.W. – TOP OF WALL
T.S. – THICK SLAB
TEMP. – TEMPERED
TR. – TREADS
TYP. – TYPICAL
U.L. DES. NO. – UNDERWRITERS LABORATORIES DESIGN NO.
U.N.O. – UNLESS NOTED OTHERWISE
U.S. – URINAL SCREEN
V.C.T. – VINYL COMPOSITION TILE
VERT. – VERTICAL
VWC. – VINYL WALL COVERING
VXB – VERTICAL "X" BRACING
W. – WIDE
W/ – WITH
W/H. – WATER HEATER
WD. – WOOD
WF. – WALL FOOTING
W.R. – WATER RESISTANT

SYMBOLS

NORTH ARROW
ELEVATION # (2 / A–1) SHOWN ON THIS SHEET — EXTERIOR ELEVATION
(A / B / C / D) SHOWN ON THIS SHEET — ELEVATION SHOWN — INTERIOR ELEVATION
DETAIL NUMBER (2 / A–1) SHOWN ON THIS SHEET — WALL SECTIONS
DETAIL # (A–1) SHOWN ON THIS SHEET — DETAIL REFERENCE
DETAIL # (1) TITLE SCALE: — DRAWING TITLE
WINDOW TYPES
HANDICAP FIXTURE
○ F.E. — FIRE EXTINGUISHER
○ P.B. — PIPE BOLLARD

TITLE (123) — ROOM NUMBER
TOILET ACCESSORIES OR EQUIPMENT NUMBER
DOOR NUMBER
CEILING FINISH
FIRST FLOOR — DATUM ELEVATION
COLUMN LINE
MATCH LINE
REVISION / REISSUE
SPANDREL GLASS
TEMPERED GLASS
WALL TYPE

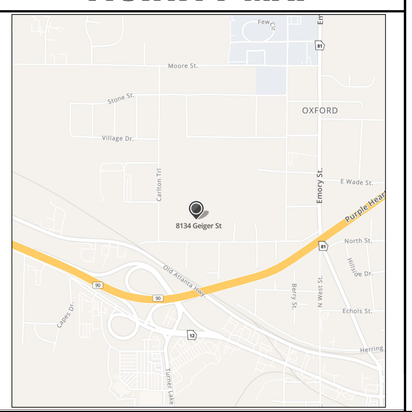
MATERIALS

BRICK
CONCRETE
CONCRETE MASONRY UNIT (C.M.U.)
METAL LATH & STUCCO
RIGID INSULATION
BATT INSULATION
EARTH
GRAVEL
METAL – FERROUS STEEL
GYPSUM BOARD SHOWN IN SECTION
PLYWOOD
FINISH WOOD

ISSUE DATES

04/01/24	RELEASED FOR PRICING, PERMITTING AND CONSTRUCTION
06/28/24	RELEASED FOR PERMITTING AND CONSTRUCTION
08/12/24	RERELEASED FOR PERMITTING AND CONSTRUCTION

VICINITY MAP



PROJECT CRITERIA

NAME OF DEVELOPMENT: RL COUSINS COMMUNITY CENTER – PHASE ONE
LOCATION OF DEVELOPMENT: 8134 Geiger Street, N.W., Covington, Georgia
ARCHITECT: E. MICHAEL SHACKLEY, A.I.A. PHONE #: (770) 491–9250 GA. STATE REGIS. #: 7718
STR'L. ENG.: See structural drawings PHONE #: GA. STATE REGIS. #:

A. Occupancy Classification: Mixed Use, Business, Storage, Assembly (Highest Use) – Group A–3
(Community Center Building to be added as Phase Two)

B. Type of Construction: IIB Sprinklered: Yes (to be added) Fire Alarm: Yes (to be added)

C. Seismic Risk Category: II Seismic Design Category: C

D. Building Area in Square Feet:
Existing 52,998 Demolition 24,336 Additions: 3,151 Total: 31,813

Allowable area: $Aa = At + \left[\frac{At\ If}{100}\right]$

$Aa = 38{,}000 + 28{,}500 = 66{,}500$

E. Number of Stories: 1 Includes: Basement: N/A Mezzanine: N/A Canopy – Porch N

F. Building Height (ft): 22'–0" Max. per IBC: 75'

G. Building permit: Complete: Yes Shell: No # Suites: – # Buildings: 1

H. Calculated Occupancy Load: 594, See sheet A–1.5.1

I. Required Minimum Live Loads in P.S.F.: Floor: 100 Roof: 20

J. All construction described in these plans shall be constructed in accordance with the following codes:
1) International Building Code (ICC) – 2018 Edition with 2020, 2022 and 2024 Georgia State Amendments
2) International Mechanical Code (ICC) – 2018 Edition with 2020 and 2024 Georgia State Amendments
3) International Plumbing Code (ICC) – 2018 Edition with 2020, 2022, 2023 and 2024 Georgia State Amendments and IPC appendix F
4) International Fire Code (ICC) – 2018 Edition with 2020 and 2022 Georgia State Fire Commissioner Amendments 120–3–3–.04
5) International Fuel Gas Code (ICC) – 2018 Edition with 2020 and 2022 Georgia State Amendments
6) International Energy Conservation Code – 2015 Edition with 2020, 2022 and 2023 Georgia State Supplements and Amendments
7) National Electrical Code (NFPA) – 2020 Edition with 2021 Georgia State Amendments
8) NFPA 101 Life Safety Code – 2018 Edition with 2022 Georgia State Fire Commissioner Amendments 120–3–3–.04(72)
9) Georgia Accessibility Code Chapter 120–3–20(.01–.08) with 2022 Georgia State Fire Commissioner Amendments 120–3–3–.08 through .11
10) U.S. Dept. of Justice, 2010 A.D.A. Standards for Accessible Design (adopted Mar. 15, 2012)
11) NFPA 10 Portable Fire Extinguishers – 2018 Edition with 2022 Georgia State Fire Commissioner Amendments
12) Georgia Erosion and Sedimentation Act of 1975, Third Edition, 1992
13) Current editions of the NFPA Codes and Standards as adopted and modified by the State Fire Marshal, in particular 2020 OCGA 120–3–3 Georgia Minimum Fire Safety Standards
14) International Existing Building Code – 2018 Edition with 2020 Georgia State Amendments
15) NFPA 13, Automatic Fire Sprinkler Code, 2019 Edition with 2022 Georgia State Fire Commissioner Amendments

K. Owner shall maintain factory installed plugs in dumpster drains at all times so as to prohibit liquid drainage from dumpster.
L. Signs are not approved under the scope of this Building Permit. A separate sign location permit is required for each sign. Please see Development Department for review and approval of all signage.
M. Storage racks are not approved under this Building Permit. A separate racking permit is required for storage racking. Please see Development Department for review and approval of all racking.
N. Each construction office trailer requires a separate building permit which shall be purchased directly from the Building Department Section.
O. Plans for fire–protection sprinkler piping, including complete seismic support details, shall be reviewed and approved prior to installation by the City Fire Marshal's Office for compliance with NFPA 13 and ASCE/SEI 7–10 Sections 13.3.1 and 13.3.2.
P. The drawings included in this package are instruments of service by contractual agreement with the client (see title block) and are intended for use for this particular project noted. Contractual obligations do not continue past the receipt of the building permit and contract administration services are not included in the scope of work provided by Beta Design Group, Inc. These drawings are the property of Beta Design Group, Inc. and may not be used for other projects or reproduced in any manner without the permission of Beta Design Group, Inc. By using these drawings for construction, the client represents that he has reviewed and approved the drawings.

DRAWING INDEX

ARCHITECTURAL
A–0.0 COVER SHEET
A–0.1 GENERAL NOTES & SPECIFICATIONS
A–0.2 GENERAL NOTES & SPECIFICATIONS
A–1.0 OVERALL KEY/DEMOLITION PLAN
A–1.0.1 WING A DEMOLITION PLAN
A–1.0.2 WING B DEMOLITION PLAN
A–1.0.3 WING C DEMOLITION PLAN
A–1.1 OVERALL RENOVATED KEY PLAN
A–1.1.1 WING A RENOVATED FLOOR PLAN
A–1.1.3 WING C RENOVATED FLOOR PLAN
A–1.2.1 ENLARGED FLOOR PLAN
A–1.2.2 ENLARGED FLOOR PLAN
A–1.2.3 ENLARGED FLOOR PLAN
A–1.3.1 PARTIAL WING A REFLECTED CEILING PLAN
A–1.3.2 PARTIAL WING A REFLECTED CEILING PLAN
A–1.3.3 WING C REFLECTED CEILING PLAN
A–1.4.1 ENLARGED TOILET PLANS & DETAILS
A–1.4.2 TOILET DETAILS
A–1.4.4 CABINET DETAILS
A–1.5.1 LIFE SAFETY PLAN
A–2.1 BUILDING ELEVATIONS
A–2.2 BUILDING ELEVATIONS
A–3.1 INTERIOR FINISH SCHEDULE
A–3.2 DOOR SCHEDULE
A–3.3 DOOR DETAILS
A–3.4 WINDOW SCHEDULE & DETAILS
A–4.1.1 WALL TYPE DETAILS
A–4.1.2 WALL TYPE DETAILS
A–4.1.3 WALL TYPE DETAILS
A–4.2 WALL SECTIONS
A–4.3 WALL SECTIONS
A–5.1 CONSTRUCTION DETAILS

STRUCTURAL
S–0.1 STRUCTURAL SPECIFICATIONS
S–0.2 STRUCTURAL SPECIFICATIONS
S–0.3 SPECIAL INSPECTIONS
1S–1.0 FOUNDATION PLAN
1S–1.1 EXISTING BUILDING MODIFICATIONS

The drawings listed below were prepared by other consultants that are not under direct supervisory control of Beta Design Group and are included herein for reference and convenience only. This list has been prepared to the best of our ability and may not reflect the complete list of drawings available for this project.

MECHANICAL
M–0.1 MECHANICAL SPECIFICATIONS
M–0.2 MECHANICAL SCHEDULES
M–0.3 MECHANICAL DETAILS
M–0.4 MECHANICAL DETAILS
M–1.0 OVERALL EXISTING MECHANICAL PLAN
M–2.0 OVERALL MECHANICAL PLAN
M–2.1 ENLARGED MECHANICAL PLAN
M–2.2 ENLARGED MECHANICAL PLAN
M–2.3 ENLARGED MECHANICAL PLAN

PLUMBING
P–0.1 PLUMBING SPECIFICATIONS
P–0.2 FIRE SPRINKLER SPECIFICATIONS
P–1.0 OVERALL PHASE 1 PLUMBING PLAN
P–2.1 PLUMBING PLAN – SEWER
P–2.2 WING A EOC PLUMBING PLAN – WATER
P–3.1 WING A JUD & FC PLUMBING PLAN – SEWER
P–3.2 WING A JUD & FC PLUMBING PLAN – WATER
P–4.1 WING B CAFETERIA & KITCHEN PLUMBING PLAN – SEWER
P–4.2 WING B CAFETERIA & KITCHEN PLUMBING PLAN – WATER
P–5.1 WING C CASA PLUMBING PLAN – SEWER

ELECTRICAL
E–0.1 ELECTRICAL LEGEND & SCHEDULES
E–0.2 ELECTRICAL SPECIFICATIONS
E–0.3 ELECTRICAL SPECIFICATIONS
E–0.4 ELECTRICAL SPECIFICATIONS
E–1.1 SITE PLAN – ELECTRICAL DEMOLITION
E–2.1 PARTIAL FLOOR PLAN – ELECTRICAL DEMOLITION
E–2.2 PARTIAL FLOOR PLAN – ELECTRICAL DEMOLITION
E–2.3 PARTIAL FLOOR PLAN – ELECTRICAL DEMOLITION
E–2.4 PARTIAL FLOOR PLAN – ELECTRICAL DEMOLITION
E–3.1 PARTIAL FLOOR PLAN – LIGHTING
E–3.2 PARTIAL FLOOR PLAN – LIGHTING
E–3.3 PARTIAL FLOOR PLAN – LIGHTING
E–3.4 PARTIAL FLOOR PLAN – LIGHTING
E–4.1 PARTIAL FLOOR PLAN – POWER & TEL/DATA/TV
E–4.2 PARTIAL FLOOR PLAN – POWER & TEL/DATA/TV
E–4.3 PARTIAL FLOOR PLAN – POWER & TEL/DATA/TV
E–4.4 PARTIAL FLOOR PLAN – POWER & TEL/DATA/TV
E–4.5 PARTIAL FLOOR PLAN – POWER & TEL/DATA/TV
E–5.1 PARTIAL FLOOR PLAN – FIRE ALARM, SOUND & SECURITY
E–5.2 PARTIAL FLOOR PLAN – FIRE ALARM, SOUND & SECURITY
E–5.3 PARTIAL FLOOR PLAN – FIRE ALARM, SOUND & SECURITY
E–5.4 PARTIAL FLOOR PLAN – FIRE ALARM, SOUND & SECURITY
E–6.1 EXISTING POWER RISER, DIAGRAM, DETAILS & SCHEDULES
E–6.2 NEW POWER RISER, DIAGRAM, DETAILS & SCHEDULES
E–6.3 PANEL SCHEDULES
E–6.4 PANEL SCHEDULES & DEMAND CALCULATIONS
E–7.1 ELECTRICAL DETAILS
E–7.2 ELECTRICAL DETAILS
E–7.3 LIGHTING COMCHECK REPORTS

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Project: R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24–04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

phase one, for construction

Issue Date:	Initial:	Drwg. Revision Description:
07/11/24	E.M.S.	1. DRWG. COORD. W/ CONSTR.
08/12/24	E.M.S.	2. CITY COMMENTS
08/26/24	E.M.S.	3. ADDED SHEET A–1.4.4

Project No.: 2023012
Drwg. Date: 06/28/24
Drwg. Revision: 08/26/24
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012 Cover

Sheet Title: COVER SHEET
Sheet No.: 2023012

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BUILDING GENERAL NOTES AND SPECIFICATIONS:
DIVISION 01 - GENERAL
GENERAL:
1. THESE DRAWINGS HAVE BEEN PREPARED FOR PERMITTING PURPOSES ONLY ON A CONTRACTOR-LED DESIGN/BUILD BASIS AND ARE NOT TO BE USED FOR COMPETITIVE BIDDING.

2. THIS DESIGN FIRM WILL NOT BE RESPONSIBLE FOR AND WILL NOT HAVE CONTROL OR CHARGE OF CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THIS PROJECT AND WILL NOT BE RESPONSIBLE FOR CONTRACTOR'S FAILURE TO CARRY OUT THE WORK ON THIS PROJECT IN ACCORDANCE WITH THESE CONSTRUCTION DOCUMENTS OR INDUSTRY STANDARDS. THIS FIRM WILL NOT BE RESPONSIBLE FOR OR HAVE CONTROL OVER THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR ANY OTHER PERSON PERFORMING ANY OF THE WORK ON THIS PROJECT.

3. ALL ENVIRONMENTAL ISSUES ARE THE SOLE RESPONSIBILITY OF THE OWNER. NEITHER ARCHITECT OR ENGINEER, GENERAL CONTRACTOR OR SUBCONTRACTORS ARE RESPONSIBLE FOR DISCOVERY, TESTING OR REMOVAL OF ANY HAZARDOUS MATERIAL AS PART OF THEIR SCOPE OF WORK UNLESS SPECIFICALLY STIPULATED BY WRITTEN AGREEMENT. IF, DURING THE COURSE OF WORK, THE GENERAL CONTRACTOR OR SUBCONTRACTORS DISCOVER HAZARDOUS MATERIALS OR CONDITIONS THEY SHALL NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY, BEFORE PROCEEDING WITH THE WORK.

4. BETA DESIGN GROUP, INC., INCLUDING THE ARCHITECT OF RECORD, ONLY ASSUMES RESPONSIBILITY FOR THAT WHICH WAS PREPARED BY BETA DESIGN GROUP, INC.

5. CONTRACTOR SHALL EXERCISE PROPER PRECAUTION BY VISITING THE BUILDING OR SITE TO VERIFY ALL EXISTING CONDITIONS AND LAYOUT OR WORK. NO ALLOWANCE WILL BE SUBSEQUENTLY MADE IN HIS BEHALF BECAUSE OF ANY ERROR ON HIS PART RELATED TO ABSENCE OF KNOWLEDGE ABOUT THE WORK OR THE SITE. IMMEDIATELY NOTIFY ARCHITECT OF ANY DISCREPANCIES. CONTRACTOR IS RESPONSIBLE FOR ANY ERROR RESULTING FROM FAILURE TO EXERCISE SUCH PRECAUTION.

6. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT, PAY ALL FEES AND COSTS, SHALL OBTAIN ALL PERMITS, APPROVALS AND INSPECTIONS.

7. ANY DISCREPANCIES, ERRORS OR OMISSIONS DISCOVERED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH RELATED WORK. OTHERWISE, THE CORRECTION OF SUCH ITEMS IS THE RESPONSIBILITY OF THE CONTRACTOR AND/OR SUBCONTRACTOR.

8. WHERE A DETAIL, TYPICAL DETAIL, SECTION, TYPICAL SECTION OR A NOTE IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.

9. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS. DETAILS SHOWN ON DRAWINGS ARE GENERAL IN NATURE AND MAY OR MAY NOT SHOW ALL PERTINENT INFORMATION FOR FABRICATIONS. CONTRACTOR SHOULD COORDINATE WITH OTHER DISCIPLINES AND REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR INSERTS, SLEEVES, CURBS, PADS, ETC. AFFECTING STRUCTURAL WORK NOT INDICATED ON STRUCTURAL DRAWINGS.

10. ALL CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE PREMISES AT COMPLETION OF PROJECT.

11. THE CONSTRUCTION TYPE, AS DEFINED BY NFPA 220, SHALL BE TYPE II, 000 (NONCOMBISTIBLE, 0 HOUR RATINGS).

INSPECTIONS:
1. CONTACT THE COUNTY BUILDING DEPARTMENT AND FIRE MARSHAL'S OFFICES FOR INSPECTION REQUIREMENTS.

DEMOLITION:
1. ALL DEMOLITION SHALL BE IN ACCORDANCE WITH IFC 2018 CHAPTER 33 AND WITH GA 120-3-3.

ACCESSIBILITY REQUIREMENTS:
1. TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THE DESIGN DEPICTED IN THESE DRAWINGS AND AS PREPARED BY BETA DESIGN GROUP MEETS THE REQUIREMENTS OF "GEORGIA ACCESSIBILITY CODE FOR BUILDINGS AND FACILITIES", 2014 OCGA CHAPTER 120-3-20.

2. THE BUILDING AND FACILITIES SHALL ALSO BE DESIGNED TO COMPLY WITH TITLE III OF THE AMERICANS WITH DISABILITIES ACT (ADA) OF 2010 ADOPTING 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.

3. ADDITIONAL REQUIREMENTS ARE CITED IN NUMEROUS SECTIONS OF THESE NOTES AND SPECIFICATIONS. CAREFULLY READ ALL ITEMS FOR APPLICABLE REQUIREMENTS.

4. SINKS IN BREAKROOMS SHALL COMPLY WITH 120-3-20-.35 (2,3,4,5,1) OF GEORGIA ACCESSIBILITY CODE FOR HEIGHT, KNEE CLEARANCE, DEPTH, CLEAR FLOOR SPACE AND FAUCETS. SPECIFICALLY, INSTALLED COUNTERS OR WORK SURFACES IN ANY BREAKROOM SHALL HAVE TOPS AT 34" FROM THE FLOOR. MAXIMUM DEPTHS OF COUNTERS TO BE 24" WHERE THE UNITS ARE BACKED BY A VERTICAL WALL. SEE DETAILS.

5. IF SEATING SPACES FOR PEOPLE IN WHEELCHAIRS ARE PROVIDED AT FIXED TABLES OR COUNTERS, THEN CLEAR FLOOR SPACE COMPLYING WITH RULE 120-3-20-.13(4) (30"x48") SHALL BE PROVIDED PER THE GEORGIA ACCESSIBILITY CODE. CLEAR FLOOR SPACE SHALL NOT OVERLAP KNEE SPACE BY MORE THAN 19 INCHES.

6. SEATS, TABLES AND WORK SURFACES SHALL COMPLY WITH THE REQUIREMENTS OF RULE 120-3-20-.40 OF THE GEORGIA ACCESSIBILITY CODE.

7. CURB RAMPS SHALL HAVE A DETECTABLE WARNING COMPLYING W/ RULE 120-3-20-.40. DETECTABLE WARNING TEXTURES SHALL CONSIST OF TRUNCATED DOMES, EXPOSED AGGREGATE CONCRETE, CUSHIONED SURFACES MADE OF RUBBER OR PLASTIC, FOR RAISED SURFACE. THE DETECTABLE WARNING SHALL EXTEND THE FULL WIDTH & DEPTH OF THE CURB RAMP INCLUDING SITE. RULE 120-3-20-.18(7).

8. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5LB.

9. NEWLY HUNG, OR REHUNG ACCESSIBLE PASSAGE DOORS IN EXISTING SPACES AT ENTRY OR INSIDE EVERY BUILDING SHALL BE PROVIDED WITH HANDICAP OPENING DEVICES (HANDLES, PULLS, LATCHES, LOCKS, LEVERS, PANIC HARDWARE, OR U-SHAPE DESIGNED AND OTHER DEVICES, ETC.) AND SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE. LEVER-OPERATED MECHANISMS, PUSH-TYPE MECHANISMS AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. RULE 120-3-20-.24 (9) SHALL APPLY.

SIGNAGE:
1. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE USED TO IDENTIFY ACCESSIBLE FACILITIES, SPECIFICALLY, THE ENTRANCE AND TOILETS SHALL HAVE SIGNS. SIGNS SHALL HAVE RAISED AND BRAILLE LETTERS AND PICTORIAL SYMBOL SIGNS. MOUNTING HEIGHT SHALL BE 60" ABOVE FINISH FLOOR TO THE CENTER OF THE SIGN AND PLACE ON THE LATCH SIDE OF DOORS OR NEAREST ADJACENT WALL. CHARACTER PROPORTION, HEIGHT, PICTOGRAMS, FINISH AND CONTRAST SHALL COMPLY WITH GEORGIA ACCESSIBILITY CODE RULE 120-3-20-.41(4), (5) AND (6).

2. COUNTY CLEAN INDOOR AIR ORDINANCES SHALL APPLY. A SIGN CLEARLY STATING THAT SMOKING IS PROHIBITED SHALL BE CONSPICUOUSLY POSTED BY THE BUILDING OWNER, OPERATOR, MANAGER OR OTHER PERSON IN CONTROL IN EVERY PUBLIC PLACE OR PLACE OF EMPLOYMENT. "NO SMOKING" SIGNS OR THE INTERNATIONAL "NO SMOKING" SYMBOL CONSISTING OF A PICTORIAL REPRESENTATION OF A BURNING CIGARETTE ENCLOSED IN A RED CIRCLE WITH A RED BAR ACROSS IT SHALL BE POSTED.

PROTRUDING OBJECTS:
1. OBJECTS PROTRUDING FROM WALLS, FREESTANDING, OVERHEAD, OVERHANGING OBJECTS AND OBJECTS MOUNTED ON POSTS AND PYLONS INSTALLED WITH LEADING EDGES BETWEEN 27 IN. AND 80 IN. ABOVE THE FINISHED FLOOR SHALL PROTRUDE NO MORE THAN 4 IN. TO WALKS, HALLS, CORRIDORS, PASSAGEWAYS OR AISLES. OBJECTS MOUNTED WITH THEIR LEADING EDGES AT OR BELOW 27 IN. ABOVE THE FINISHED FLOOR MAY PROTRUDE ANY AMOUNT. FREESTANDING OBJECTS MOUNTED ON POSTS OR PYLONS MAY OVERHANG 12 IN. MAXIMUM FROM 27 IN. TO 80 IN. ABOVE THE GROUND OR FINISHED FLOOR. PROTRUDING OBJECTS SHALL NOT REDUCE THE CLEAR WIDTH OF AN ACCESSIBLE ROUTE OR MANEUVERING SPACE.

TOILET AREAS & TOILET ACCESSORIES:
1. EACH PUBLIC AND COMMON USE TOILET SHALL BE MADE ACCESSIBLE AND USABLE BY THE PHYSICALLY HANDICAPPED.

2. HANDICAP ACCESSIBLE RESTROOMS SHALL HAVE AN UNOBSTRUCTED CLEAR FLOOR SPACE OF 5' DIAMETER CIRCULAR AREA OR "T" SHAPE SPACE CONFORMING TO GEORGIA ACCESSIBILITY CODE RULE 120-3-20-.33.

3. HANDICAP WATER CLOSET HEIGHT SHALL BE 17 TO 19 IN. MEASURED FROM THE TOP OF THE TOILET SEAT TO THE FLOOR. GEORGIA ACCESSIBILITY CODE RULE 120-3-20-.27(1). FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC AND SHALL COMPLY WITH RULE 120-3-20-.38(4) RELATED TO CONTROLS. CONTROLS FOR FLUSH VALVES SHALL BE MOUNTED ON THE WIDE, ACCESSIBLE SIDE OF TOILET AREAS NO MORE THAN 44 IN. ABOVE THE FLOOR.

4. HANDICAP GRAB BARS ARE TO BE LOCATED AS OUTLINED IN GEORGIA ACCESSIBILITY CODE RULE 120-3-20-.37 AND NOT OBSTRUCT THE REQUIRED CLEAR FLOOR SPACE. MOUNT AT 33" TO 36" HEIGHT. GRAB BARS SHALL BE MOUNTED TO SUPPORT 250 LBS. PROVIDE BLOCKING AS REQUIRED IN WALLS.

5. HANDICAP ACCESSIBLE URINALS SHALL BE WALL HUNG WITH AN ELONGATED RIM AT A MAXIMUM OF 17 IN. ABOVE THE FLOOR AND SHALL EXTEND AT LEAST 14 IN. FROM THE WALL TO THE FRONT EDGE OF THE URINAL. A CLEAR FLOOR SPACE OF URINALS. (GEORGIA ACCESSIBILITY CODE RULE 120-3-20-.29)

6. HANDICAP LAVATORIES SHALL BE MOUNTED WITH A CLEARANCE OF 29 IN. FROM THE FLOOR TO THE BOTTOM OF THE APRON. PLUMBING SHALL BE ARRANGED SO THAT A KNEE CLEARANCE OF 8 IN. DEEP, TOE CLEARANCE OF 9 IN. HIGH AND A FLOOR SPACE OF 17 IN. MIN. DEPTH IS ACHIEVED. COMPLY WITH GEORGIA ACCESSIBILITY CODE RULE 120-3-20-.30. TOPS OF COUNTER MOUNTED LAVATORIES SHALL BE NO HIGHER THAN 34 IN. FROM THE FLOOR AND THE LAVATORIES SHALL BE A MAXIMUM OF 6 1/2 IN. DEEP.

7. HOT WATER AND DRAIN PIPES UNDER HANDICAP LAVATORIES SHALL BE INSULATED OR COVERED. NO SHARP OR ABRASIVE SURFACES SHALL BE FOUND UNDER LAVATORIES. (GEORGIA ACCESSIBILITY CODE RULE 120-3-20-.30)

8. ONE HAND OPERATION IS REQUIRED OF HANDICAP FAUCETS, SELF CLOSING VALVES ARE PERMITTED PROVIDING THE FAUCET REMAINS OPEN FOR AT LEAST TEN SECONDS TO COMPLY WITH GEORGIA ACCESSIBILITY CODE RULE 120-3-20-.30(5).

9. HANDICAP MIRRORS ARE TO BE MOUNTED WITH THE BOTTOM EDGE OF REFLECTING SURFACE NO HIGHER THAN 40 IN. FROM THE FLOOR AND THE TOP OF THE FRAME AT LEAST 74 IN. FROM THE FLOOR. GEORGIA ACCESSIBILITY CODE RULE 120-3-20-.30(6)

MEANS OF EGRESS, EXITS, EXIT ACCESS, EMERGENCY EXIT:
1. EGRESS DOORS SHALL HAVE A MINIMUM CLEAR OPENING OF 32" AND SHALL BE ACCESSIBLE PER THE FOLLOWING CRITERIA AND GEORGIA ACCESSIBILITY CODE.

2. PROVIDE ILLUMINATED EXIT SIGNS WITH BATTERY BACKUP DESIGNATING EXITS AND WAYS TO TRAVEL THERETO. SEE ELECTRICAL DRAWINGS.

3. PROVIDE EMERGENCY LIGHTING BATTERY PAKS TO ILLUMINATE THIS FACILITY IN THE EVENT OF A POWER FAILURE. SEE ELECTRICAL DRAWINGS. EMERGENCY LIGHTS SHALL BE CONNECTED TO A LIGHTING CIRCUIT BREAKER FOR THE AREA THEY SERVE. DEDICATED CIRCUITS ARE NOT PERMITTED.

4. ADDITIONAL EXIT & EMERGENCY LIGHTING MAY BE REQUIRED AT THE TIME OF INSPECTION, DUE TO POSSIBLE OBSTRUCTION BY SHELVING EQUIPMENT, ETC.

5. DOORS SHALL BE ARRANGED TO BE READILY OPENED FROM THE EGRESS SIDE WHENEVER THE BUILDING IS OCCUPIED. DOORS IN EXITS SHALL NOT BE SUBJECT TO THE USE OF A KEY, TOOL OR REQUIRE SPECIAL KNOWLEDGE OR EFFORT FOR OPERATION FROM THE EGRESS SIDE (INSIDE) OF THE BUILDING. DOORS WITH THUMB BOLTS ON THE INTERIOR, HOWEVER, SHALL BE TURNED TO THE UNLOCKED POSITION AT ANY TIME THE BUILDING IS OCCUPIED. PER NFPA 101 LIFE SAFTEY CODE, CHAPTER 7, SECTION 7.2.1.5.3, 2018 EDITION.

6. FLOOR ELEVATION CHANGES SHALL BE NO MORE THAN 1/2" AT ANY ONE PLACE ALONG AN ACCESSIBLE ROUTE.

7. ANY FIRE RATED DOORS OR FUSIBLE LINK SHUTTERS SHALL BE USED, INSTALLED AND MAINTAINED PER NFPA 80.

8. BUILDING OCCUPANT SHALL SUPPLY FIRE MARSHALL'S OFFICE WITH A FIXTURE PLAN OF SHELVING, CONVEYOR SYSTEMS, OR MACHINERY LOCATION. SHOW BOTH HORIZONTAL AND VERTICAL VIEWS. PLANS MUST BE SUBMITTED PRIOR TO REQUEST FOR CERTIFICATE OF OCCUPANCY.

9. THE FLOOR ON BOTH SIDES OF A DOOR SHALL BE LEVEL AND SHALL HAVE THE SAME ELEVATION ON BOTH SIDES OF THE DOOR, FOR A DISTANCE ON EACH SIDE AT LEAST EQUAL TO THE WIDTH OF THE WIDEST SINGLE DOOR.

10. ARRANGEMENT OF THE MEANS OF EGRESS PER THE APPROPRIATE OCCUPANCY CHAPTER OF THE NFPA 101 LIFE SAFETY CODE, 2018 EDITION, SHALL BE PROVIDED.

RAMPS, STAIRS, GUARDRAILS & HANDRAILS:
1. STAIRS ARE NOT INCLUDED IN THIS PERMIT APPLICATION.

2. RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1:12 TO MEET THE REQUIREMENTS SET FORTH BY GEORGIA ACCESSIBILITY CODE RULE 120-3-20-.18.

3. RAMP HANDRAILS SHALL COMPLY WITH AND SHALL HAVE THE FEATURES DESCRIBED IN GEORGIA ACCESSIBILITY CODE RULE 120-3-20-.19.

4. PROVIDE STURDY HANDRAILS ON BOTH SIDES OF RAMP. HANDRAILS SHALL BE MOUNTED AT 34" ABOVE RAMP. HANDRAILS SHALL ALSO COMPLY WITH OTHER REQUIREMENTS OF GEORGIA ACCESSIBILITY CODE RULE 120-3-20-.37 AND NFPA 101, 7.2.2.4.5(1).

5. NEW HANDRAILS SHALL BE EXTENDED HORIZONTALLY A MINIMUM OF 12 IN. AT THE REQUIRED HEIGHT AT LANDINGS. SEE NFPA 101, 7.2.2.4.5(B).

6 NEW HANDRAIL ENDS SHALL BE RETURNED TO WALL. SEE NFPA 101, 7.2.2.4.5(5).

7. NEW HANDRAILS SHALL PROVIDE A CLEARANCE OF AT LEAST 1 1/2 IN. BETWEEN THE HANDRAIL AND THE WALL TO WHICH THEY ARE FASTENED. SEE FPA 101, 7.2.2.4.5(2).

DIVISION 02 - SITE CONSTRUCTION
1. NOT INCLUDED IN PACKAGE PREPARED BY BETA DESIGN GROUP.

DIVISION 03 - CONCRETE
1. NOT INCLUDED IN PACKAGE PREPARED BY BETA DESIGN GROUP.

DIVISION 04 - MASONRY
BRICK VENEER:
1. ALL BRICK SHALL BE OF A QUALITY AT LEAST EQUAL TO THAT REQUIRED BY ASTM C216 FOR SOLID CLAY AND SHALE FACED BRICK, ASTM C902 FOR PAVING BRICK, ASTM C652 FOR CLAY AND SHALE HOLLOW BRICK.

2. ONLY GRADE "SW" BRICK SHALL BE USED ON EXPOSED EXTERIOR BUILDING SURFACES, BOTH ABOVE AND BELOW GROUND.

3. UNLESS NOTED OTHERWISE, ALL BRICK SHALL BE JUMBO UTILITY (NOMINALLY 4"X4"X12") TO MATCH EXISTING.

4. PATTERN SHALL BE STANDARD RUNNING BOND (1/2 LAP) UNLESS OTHERWISE INDICATED.

5. OPEN HEAD JOINTS SHALL BE PROVIDED AT 2'-0" O.C. AT THE BOTTOM COURSE OF VENEER ABOVE FINISH GRADE AND AT LINTELS. OPEN HEAD JOINTS SHALL BE A MINIMUM OF 3/8" WIDE, ABSENT ONE BRICK. OPEN HEAD JOINTS TO BE FITTED WITH TUBE VENTS.

6. FABRIC FLASHING SHALL BE PROVIDED CONTINUOUSLY AT ALL STEEL LINTEL BEAMS. FLASHING SHALL BE RUBBERIZED ASPHALT OR 45 MIL EPDM WITH END DAMS. METAL BASE FLASHINGS, WHERE INDICATED, SHALL BE 28 GA. COPPER, STAINLESS STEEL OR GALVANIZED METAL. IF GALVANIZED MATERIAL IS USED, METAL SHALL BE COATED WITH BITUMINOUS COATING PRIOR TO INSTALLATION. ALUMINUM FLASHINGS SHALL NOT BE USED IN CONTACT WITH WET MORTAR.

7. AN AIR AND WATER BARRIER SHALL BE PLACED BEHIND VENEERS OVER EXTERIOR GYP. SHEATHING HORIZONTALLY WITH THE UPPER MATERIAL LAPPED OVER THE LOWER NOT LESS THAN 2". BARRIER SHALL BE FREE OF HOLES AND BREAKS OTHER THAN THOSE CREATED BY FASTENERS.

8. MORTAR REQUIREMENTS PER ASTM C270:
A.) FOR BRICK EXTERIOR VENEER, TYPE N, 750 PSI AVERAGE COMPRESSIVE STRENGTH AT 28 DAYS WITH WATER RETENTION OF 75% MINIMUM AND AIR CONTENT OF 14% MAXIMUM.
B.) ANY ADMIXTURES TO THE MORTAR MUST CONFORM TO ASTM C476 AND SHALL BE APPROVED BY THE ENGINEER. IN NO CASE SHALL CALCIUM CHLORIDE BE ADDED TO THE MORTAR.
C.) MORTAR USED FOR EXPOSED MASONRY WALLS SHALL CONTAIN NO SOLUBLE SALTS SUCH AS SODIUM OR POTASSIUM SULFATE. USE ONLY POTABLE WATER, PORTLAND CEMENT WITH LOW ALKALI CONTENT AND CHEMICALLY PURE LIME.

9. MASONRY TOLERANCES:
A.) VARIATION FROM PLUMB IN THE LINES AND SURFACES OF WALLS AND COLUMNS: 1/4 IN. IN 10 FT, 3/8 IN. IN ANY STORY OR 20 FT. MAX., 1/2 INCH IN 40 FEET.
B.) VARIATION FROM PLUMB FOR EXTERIOR CORNERS, CONTROL JOINTS AND OTHER CONSPICUOUS LOCATIONS: 1/4 IN. IN 20 FT. OR ANY STORY: 1/2 IN. IN 40 FT. OR MORE.
C.) VARIATION FROM LEVEL AT LINTELS, SILLS, PARAPETS AND HORIZONTAL PROJECTIONS OR INDENTIONS: 1/4 IN. IN 20 FT OR 1/2 IN. IN 40 FT OR MORE.
D.) VARIATION FROM LEVEL AT LOCATIONS OTHER THAN ITEM 10C: 1/2 IN. IN 20 FEET; 3/4 IN. IN 40 FEET OR MORE.
E.) VARIATION IN THICKNESS OR WALLS: MINUS 1/4 IN; PLUS 1/2 IN.

10. MASONRY CONTROL JOINTS SHALL BE PROVIDED AT APPROXIMATELY 32 FT. ON CENTER, UNLESS NOTED OTHERWISE ON PLANS. DO NOT LOCATE JOINTS OVER LINTELS OR AT BUILDING CORNERS.

11. BRICK TIES:
A) TWO PIECE ADJUSTABLE TIES WITH A MINIMUM WIRE SIZE OF W1.7 WITH A DIAMETER OF Ø1483 IN. SHALL BE USED AT BRICK VENEER, COMPATIBLE WITH MASONRY.
B) ALL TIES MUST BE EMBEDDED AT LEAST 1 1/2" INTO THE BRICK VENEER WITH A MIN. MORTAR COVER OF 5/8" TO THE OUTSIDE FACE OF THE WALL.
C) TIES SHALL BE SPACED AT 16 IN. ON CENTER VERTICALLY AND 24 IN.(MAXIMUM) ON CENTER HORIZONTALLY (MATCH STUD SPACING) IN THE FIELD OF THE WALL. AT OPENINGS, ADDITIONAL TIES SHALL BE SPACED WITHIN 12" OF THE OPENING.

12. BRICK SHALL BE CLEANED ACCORDING TO THE RECOMMENDATIONS OF "CLEANING BRICK MASONRY", BRICK INSTITUTE OF AMERICA TECHNICAL NOTE NO. 20, LATEST EDITION.

DIVISION 05 - STRUCTURAL STEEL, STEEL JOISTS, STEEL DECKING
1. NOT INCLUDED IN PACKAGE PREPARED BY BETA DESIGN GROUP.

DIVISION 06 - WOOD AND PLASTICS
GENERAL:
1. ANY WOOD USED (BLOCKING, ETC.) SHALL BE FIRE RETARDANT TREATED.

CABINETS:
1. CABINETS SHALL BE CONSTRUCTED WITH PARTICLE BOARD CORE WITH WHITE MELAMINE INTERIORS.

2. CABINET EXTERIORS SHALL BE HIGH PRESSURE LAMINATE. TOPS SHALL BE SELF-EDGE CONSTRUCTION.

3. HINGES SHALL BE 110 DEGREE CONCEALED SELF-CLOSING HINGES.

4. BACKS SHALL BE 1/4" WHITE VINYL COATED PLYWOOD DADOED INTO SIDES, TOP AND BOTTOM.

5. DRAWER CONSTRUCTION SHALL BE 3/4" MELAMINE SIDES, BACK AND SUB FRONT.DRAWER BOTTOM SHALL BE 1/4" VINYL COATED PLYWOOD.

6. DRAWER SLIDES, IF REQUIRED, SHALL BE BOTTOM MOUNTED, EPOXY COATED WITH 100 LB. STATIC LOAD CAPACITY.

7. EXPOSED AND SEMI-EXPOSED CABINET EDGES SHALL BE BANDED WITH 3MM PVC IN A COMPLIMENTARY COLOR TO MATCH LAMINATE.

8. TOE KICKS SHALL BE CONSTRUCTED OF EXTERIOR GRADE PLYWOOD.

DIVISION 07 - THERMAL & MOISTURE PROTECTION
INSULATION:
1. INSULATING MATERIALS, INCLUDING FACINGS SUCH AS VAPOR RETARDERS, VAPOR-PERMEABLE MEMBRANES, SIMILAR COVERINGS AND ALL LAYERS OF SINGLE AND MULTILAYER REFLECTIVE FOIL INSULATIONS SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 450, TESTED PER ASTM E-84.

2. CONCEALED BUILDING INSULATION INSTALLED IN WALL, FLOOR, ROOF AND CEILING CAVITIES SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE-DEVELOPED INDEX OF NOT MORE THAN 450, TESTED PER ASTM E-84.

3. PROVIDE 3 1/2 INCH, UNFACED FIBERGLASS ACOUSTICAL INSULATION BATTS ABOVE ALL CEILINGS LOCATED DIRECTLY UNDER BUILDING ROOF.

4. PROVIDE SOUND ATTENUATION BATTS AT TOILET WALLS, CONFERENCE ROOM WALLS AND BREAKROOM WALLS. SEE DRAWINGS FOR OTHER LOCATIONS OF SOUND INSULATED WALLS.

5. ROOF INSULATION SHALL BE OF A TYPE APPROVED BY THE ROOF MANUFACTURER FOR THIS TYPE OF INSTALLATION. ROOF INSULATION SHALL COMPLY WITH FM 4450 OR UL 1256 AND SHALL HAVE A MINIMUM LTTR VALUE OF 25.

6. SEE THE DRAWINGS FOR WALL INSULATION LOCATIONS, TYPE AND MIN. R-VALUES.

FLASHING & ACCESSORIES:
1. SHEET METAL FLASHINGS SHALL BE FABRICATED FROM 26 GUAGE GALVANIZED STEEL.

2. ALL HEADS OF EXPOSED EXTERIOR FASTENERS SHALL BE 300 SERIES STAINLESS, NYLON, PAINTED OR CAST ZINC/ALUMINUM TO PREVENT STAINING OF BUILDING SURFACES.

SEALANTS:
1. ALL SEALANT PRODUCTS SHALL BE VALIDATED BY THE SEALANT, WATERPROOFING AND RESTORATION INSTITUTE AND COMPLY WITH ASTM C920 AND C1193.

2. CONTRACTOR SHALL USE A ONE-PART POLYURETHANE SEALANT FOR SEALING PENETRATIONS AND FLASHING CONDITIONS ON METAL STANDING SEAM ROOF SYSTEM, SONOLASTIC NP-1 BY MASTERSEAL OR EQUAL. DO NOT USE SILICONE SEALANTS.

3. EXTERIOR JOINTS AND ALL OTHER OPENINGS IN THE BUILDING ENVELOPE THAT ARE SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHER-STRIPPED OR OTHERWISE SEALED IN AN APPROVED MANNER.

4. EQUIPMENT OR PIPING SHIMS SHALL BE MADE OF PLASTIC OR COMPOSITE MATERIAL AND SET IN A BED OF CAULK MASTIC TO PREVENT MOISTURE FROM ACCUMULATING UNDER THE BLOCKING.

5. FIRESTOP COMPOUNDS FOR JOINT SYSTEMS BETWEEN FIRE-RESISTANCE-RATED WALLS, FLOOR OR FLOOR/CEILING ASSEMBLIES SHALL BE LISTED AND TESTED UNDER UL 2079 OR ASTM E1966 - TEST STANDARD FOR FIRE-RESTIVE JOINT SYSTEMS, FOR WALL OR CEILING PENETRATIONS, THE FIRESTOP MATERIAL MUST CARRY A UL 1479 OR ASTM E814 - FIRE TESTS OF PENETRATION FIRESTOP SYSTEMS LISTING AND BE DESIGNED TO RESIST THE PASSAGE OF FIRE FOR A TIME PERIOD NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATINGS OF THE WALL, FLOOR OR ROOF IN OR BETWEEN WHICH THE SYSTEM IS INSTALLED.

VAPOR BARRIER:
1. PLACE 6 MIL POLYETHYLENE VAPOR BARRIER UNDER ALL BUILDING SLABS ON GRADE. LAP 6" MINIMUM AND TAPE SEAM. SEAL/TAPE ALL SLAB PENETRATIONS.

DIVISION 08 - DOORS AND WINDOWS
GENERAL:
1. U-FACTOR AND SHGC FOR EACH GLAZED FENESTRATION PRODUCT (DOOR, WINDOW, SKYLIGHT) SHALL BE DETERMINED IN ACCORDANCE WITH THE NATIONAL FENESTRATION RATING COUNCIL PER NFRC 100-01 (PROCEDURE FOR DETERMINING FENESTRATION PRODUCT U-FACTORS) AND NFRC 200-01 (PROCEDURE FOR DETERMINING FENESTRATION PRODUCT SOLAR HEAT GAIN COEFFICIENTS AND VISIBLE TRANSMITTANCE AT NORMAL INCIDENCE).

DOOR CRITERIA:
1. EXTERIOR ENTRANCE DOORS AT OFFICE AREA SHALL BE GLASS AND ALUMINUM DOORS WITH LOCKSETS AT EXTERIOR, THUMB LOCKS ON INTERIOR FACE, CLOSERS AND THRESHOLDS. THE LOCK SHALL BE SUCH THAT IT IS EASILY DISTINGUISHED AS LOCKED. A SIGN SHALL BE PLACED ON EGRESS SIDE OF DOOR, EITHER ON OR ADJACENT TO THE DOOR, WITH 1" LETTERS ON A CONTRASTING BACKGROUND AND SHALL READ "THIS DOOR IS TO REMAIN UNLOCKED WHEN THE BUILDING IS OCCUPIED."

2. VERTICAL ACTING SECTIONAL STEEL INSULATED DOORS SHALL BE 24 GUAGE STEEL DOOR WITH FULL VERTICAL LIFT. DOORS SHALL BE FACTORY PAINTED. PROVIDE ONE SIGHT GLASS IN EACH DOOR. ALL OVERHEAD DOORS SHALL BE MANUALLY OPERATED, UNLESS NOTED OTHERWISE ON DOOR SCHEDULE.

3. EXTERIOR HOLLOW METAL DOORS SHALL BE 18 GUAGE GALVANIZED COLD ROLLED STRETCHER LEVELED STEEL. ALL HOLLOW METAL DOOR FRAMES SHALL BE 16 GUAGE GALVANIZED STEEL. PROVIDE LOCKSETS OR PANIC HARDWARE (SEE SCHEDULE), THRESHOLDS AND CLOSERS ON ALL EXTERIOR METAL PERSONNEL DOORS.

4. MAXIMUM ALLOWABLE AIR INFILTRATION RATES FOR ALL EXTERIOR DOORS AND WINDOWS SHALL BE AS FOLLOWS:
A) DOORS - 1.25 CU. FT. PER MINUTE PER SQUARE FOOT OF DOOR AREA.
B) FIXED ALUMINUM WINDOWS - .15 CU. FT. PER MINUTE PER SQUARE FOOT OF WINDOW AREA.

5. EACH SOLID EXTERIOR DOOR SHALL HAVE A U-VALUE NOT TO EXCEED .50 AND SHALL BE LABELED BY THE MANUFACTURER TO CERTIFY COMPLIANCE WITH THE REQUIREMENTS OF THE NATIONAL FENESTRATION RATING COUNCIL PER NFRC 100-97, TO BE VERIFIED BY THE INSPECTOR.

6. EXTERIOR GLASS DOORS SHALL HAVE A SHGC RATING NOT TO EXCEED .60, DETERMINED IN ACCORDANCE WITH THE NATIONAL FENESTRATION RATING COUNCIL PER NFRC 200-97.

7. SEE DOOR SCHEDULE IN THESE DRAWINGS FOR OTHER CRITERIA CONCERNING DOORS AND FRAMES.

HARDWARE:
1. A LATCH OR OTHER FASTENING DEVICE ON A DOOR SHALL BE PROVIDED WITH A HANDLE, PANIC BAR OR OTHER SIMPLE TYPE OF RELEASING DEVICE HAVING AN OBVIOUS METHOD OF OPERATION UNDER ALL LIGHTING CONDITIONS. LATCH SHALL BE NO MORE THAN 48" ABOVE FINISHED FLOOR. DOORS SHALL BE OPERABLE WITH NO MORE THAN ONE RELEASING OPERATION.

2. THRESHOLDS SHALL BE NO HIGHER THAN 1/2" ABOVE FINISH FLOOR. THE EDGE SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1 IN 2.

3. SWING AND FORCE TO OPEN DOORS SHALL MEET THE REQUIREMENTS OF THE NFPA 101 LIFE SAFETY CODE, CHAPTER 7, SECTION 7.2. 1.4, 2018 EDITION. THE FORCES REQUIRED TO FULLY OPEN ANY DOOR MANUALLY IN A MEANS OF EGRESS SHALL NOT EXCEED 15 LBF TO RELEASE THE LATCH, 30 LBF TO SET THE DOOR IN MOTION AND 15 LBF TO OPEN THE DOOR TO THE MINIMUM REQUIRED WIDTH. OPENING FORCES FOR INTERIOR SINGLE-HINGED OR PIVOTED-SWINGING DOORS WITHOUT CLOSERS SHALL NOT EXCEED 5 LBF. THESE FORCES SHALL BE APPLIED AT THE LATCH STILE.

4. SELF CLOSING DEVICES SHALL MEET THE REQUIREMENTS OF THE NFPA 101 LIFE SAFETY CODE, CHAPTER 7, SECTION 7.2. 1.4, 2018 EDITION.

5. FINISH HARDWARE TO BE BRUSHED CHROME FINISH OF MEDIUM INDUSTRIAL GRADE. CONTRACTOR SHALL SUBMIT FINISH H

(ORDINARY HAZARD, 2 X 1500 S.F.) AND MAXIMUM TRAVEL DISTANCE TO BE 75 FT.

1. COMMERCIAL KITCHENS SHALL HAVE A CLASS K FIRE EXTINGUISHER.

2. PORTABLE FIRE EXTINGUISHERS HAVING A GROSS WEIGHT NOT EXCEEDING 40 LBS. SHALL BE INSTALLED SO THAT ITS TOP IS NO HIGHER THAN 54" AND NOT LESS THAN 48" ABOVE THE FLOOR. HAND-HELD PORTABLE FIRE EXTINGUISHERS HAVING A GROSS WEIGHT EXCEEDING 40 LBS. SHALL BE INSTALLED SO THAT ITS TOP IS NOT MORE THAT 3.5 FEET (42") ABOVE THE FLOOR. THE CLEARANCE BETWEEN THE FLOOR AND THE BOTTOM OF THE INSTALLED HAND-HELD EXTINGUISHERS SHALL NOT BE LESS THAN 4".

4. OWNER SHALL BE RESPONSIBLE FOR ADDITIONAL REQUIREMENTS AFTER ANY FIXTURES, RACKING, EQUIPMENT, ETC. ARE PLACED IN THE BUILDING.

DIVISION 11 - EQUIPMENT
1. NOT INCLUDED IN PACKAGE PREPARED BY BETA DESIGN GROUP.

DIVISION 12 - FURNISHINGS
1. NOT INCLUDED IN PACKAGE PREPARED BY BETA DESIGN GROUP.

DIVISION 13 - SPECIAL CONSTRUCTION
METAL BUILDING:
1. METAL BUILDING ROOF PANELS SHALL BE 3" HIGH, 24 GA. STANDING SEAM METAL ROOF PANELS BY METAL BUILDING MANUFACTURER, GALVALUME FINISH.

2. METAL PANELS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

3. CLEAN ALL METAL SHAVINGS, SCREWS AND GENERAL CONSTRUCTION DEBRIS FROM ROOF.

DIVISION 14 - CONVEYING SYSTEMS
1. NOT INCLUDED IN PACKAGE PREPARED BY BETA DESIGN GROUP.

DIVISION 15 - MECHANICAL
1. NOT INCLUDED IN PACKAGE PREPARED BY BETA DESIGN GROUP.

PLUMBING, PLUMBING ACCESSORIES, ANSI PLUMBING:
1. NOT INCLUDED IN PACKAGE PREPARED BY BETA DESIGN GROUP.

FIRE PROTECTION:
1. MAINTAIN ACCESS FOR EMERGENCY VEHICLES AROUND AND TO ALL BUILDINGS UNDER CONSTRUCTION I.E., IN TIMES OF RAIN OR MUD, ROADS SHALL BE ABLE TO CARRY A FIRE TRUCK BY BEING PAVED OR HAVING A CRUSHED STONE BASE, ETC. THIS ACCESS SHALL BE WITHIN 40 FT. OF THE FIRE DEPARTMENT RISER CONNECTION(S).

2. HYDRANT(S) AND MAIN(S) SHALL BE INSTALLED AND UNDER PRESSURE BEFORE ANY COMBUSTIBLE CONSTRUCTION IS STARTED.

3. OPENINGS THROUGH FLOORS, SUCH AS STAIRWAYS, ELEVATOR HOISTWAYS, AND SHAFTWAYS USED FOR LIGHT, VENTILATION OR BUILDING SERVICES, SHALL BE ENCLOSED WITH FIRE BARRIERS (VERTICAL) SUCH AS WALL OR PARTITION ASSEMBLIES. SUCH ENCLOSURES SHALL BE CONTINUOUS FROM FLOOR TO FLOOR. OPENINGS SHALL BE PROTECTED AS A FPROPRIATE FOR THE FIRE RESISTANCE RATING OR THE BARRIER.

4. WHERE A BEAM OR COLUMN BECOMES PART OF A FIRE RATED WALL OR CEILING IT MUST BE PROTECTED AND BE FIRE RATED AS IS THE WALL OR CEILING.

5. ALL PENETRATIONS, SUCH AS PIPES, CONDUITS, BUS DUCTS, CABLES, WIRES, AIR DUCTS, PNEUMATIC DUCTS, AND SIMILAR BUILDING SERVICE EQUIPMENT THROUGH ANY RATED FIRE BARRIER ASSEMBLY SHALL BE TIGHTLY SEALED USING AN APPROVED, LISTED MATERIAL AND SYSTEM THAT IS TESTED AND COMPLYING WITH ASTM E-814 OR UL 1479 FOR FIRE RATING (TO BE USED AT ALL FIRE BARRIERS). SIGNS OR STENCILS SHALL BE PLACED ABOVE ALL CEILING LINES AND CONCEALED SPACES WITH THE WORDING "FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS." SPACING OF SIGNS TO BE 10'-0" MAXIMUM. LETTERS TO BE 2" MIN. HIGH AND HAVE A CONTRASTING BACKGROUND.

6. FINISH MATERIALS SHALL COMPLY WITH CHAPTER 8 OF 2018 INTERNATIONAL BUILDING CODE AND NFPA 101, 102, I.E. SMOKE DEVELOPED AND FLAMESPREAD. PROVIDE VERIFICATION THAT PRODUCTS COMPLY WITH THE REQUIREMENTS. ANY COMBUSTIBLE INTERIOR TRIM (WOOD WALL PANELING, CARPET, ETC.) IN EXIT ENCLOSURES AND EXIT WAYS (CORRIDORS) SHALL BE OF CLASS "A" OR "B" MATERIALS WITH A FLAMESPREAD RATING OF 0-75 AND A SMOKE DEVELOPMENT RATING OF LESS THAN 450. INTERIOR FLOOR FINISHES IN CORRIDORS AND EXITS SHALL BE CLASS I OR CLASS II PER NFPA 253.

7. COMBUSTIBLE INTERIOR FINISH PRODUCTS SHALL COMPLY WITH THE REQUIREMENTS OF THE RESPECTIVE OCCUPANCY CHAPTER OF THE NFPA 101 LIFE SAFETY CODE, 2018 EDITION AND VERIFICATION SHALL BE PROVIDED.

8. THE NUMERICAL STREET ADDRESS IS EXISTING.

9. CONSTRUCTION SHALL HAVE A FIRE RESISTANCE RATING EQUAL TO OR GREATER THAN THE FIRE RESISTANCE RATING OF ALL CONSTRUCTION WHICH IT SUPPORTS.

10. A KEY LOCK BOX IS REQUIRED PER COVINGTON CITY ORDINANCE. THE FIRE INSPECTOR WILL DETERMINE THE APPROPRIATE LOCATION FOR THE BOX DURING THE 50% INSPECTION. GENERALLY THESE BOXES ARE LOCATED 6 FEET ABOVE GRADE TO THE RIGHT OF THE MAIN ENTRY DOOR. CONTACT THE FIRE MARSHAL'S OFFICE FOR ORDER FORM INFORMATION AND LOCATIONS OF BOX(S).

FIRE SPRINKLER SYSTEM AND ALARM:
1. FIRE PROTECTION SYSTEM DESIGN AND DRAWINGS SHALL BE PREPARED BY THE SUCCESSFUL BIDDING SUBCONTRACTOR AND SHALL SUBMIT ONE SET OF DRAWINGS TO THE ARCHITECT/ ENGINEER FOR USE IN COORDINATION. DESIGN SHALL MEET ALL APPLICABLE CODES AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE LOCAL INTERFRETATIONS BY THE ENFORCING AGENCY.

2. FIRE SPRINKLER CONTRACTOR SHALL OBTAIN A SEPARATE PERMIT FROM THE CITY FIRE MARSHAL'S OFFICE FRIOR TO INSTALLATION. ANY FIRE SPRINKLER PLAN INCLUDED IN THIS SET OF PLANS IS FOR REFERENCE ONLY, NOT FOR PERMIT.

3. FIRE SPRINKLER SYSTEM SHALL BE DESIGNED AND PROVIDED IN ACCORDANCE WITH THE CITY FIRE PREVENTION AND PROTECTION ORDINANCE, 2018 EDITION AND NFPA 13, 2019 EDITION. THE SPRINKLER SYSTEMS SHALL BE OFF-SITE MONITORED OR AT A CONSTANTLY ATTENDED LOCATION BY TRAINED PERSONNEL.

4. PROVIDE FIRE MARSHAL'S OFFICE WITH A COMPLETE SET OF SPRINKLER/STANDPIPE PLANS TO INCLUDE SITE PLAN WITH HYDRANT LOCATIONS, FIRE DEPARTMENT CONNECTION, AND BUILDING/SPRINKLER LAYOUT. SPRINKLER SHOP DETAILS SHOWING PIPING LOCATIONS AND HEAD LAYOUT SHALL BE AVAILABLE ON THE JOB SITE AT ALL TIMES.

5. THE REQUIRED FIRE ALARM SHALL SOUND AN AUDIBLE AND VISUAL ALARM SIGNAL THROUGHOUT THE FACILITY, INCLUDING COMMON USE ROOMS OR SPACES, RESTROOMS, LOBBIES, CORRIDORS AND CONFERENCE ROOMS. FEATURES OF SIGNALS SHALL COMPLY WITH GEORGIA ACCESSIBILITY CODE RULE 120-3-20-.39, NFPA 72, 2018 EDITION AND NFPA 101, SECTION 9.6.

1. FIRE ALARM CONTRACTOR SHALL OBTAIN A FIRE ALARM SYSTEM PERMIT FROM THE CITY FIRE MARSHAL'S OFFICE PRIOR TO INSTALLATION. ANY FIRE ALARM PLANS INCLUDED IN THIS SET OF PLANS ARE FOR REFERENCE ONLY. NOT FOR PERMIT. FIRE ALARM PLANS AND SPECIFICATIONS SHALL BE SUBMITTED SEPARATELY FOR REVIEW.

2. FIRE ALARM PLANS AND SPECIFICATIONS SHALL COMPLY WITH PROVISIONS OF NFPA 72, 2018 EDITION AND SHALL BE SUBMITTED SEPARATELY FOR REVIEW.

SEISMIC RESTRAINTS:
1. ALL ARCHITECTURAL, MECHANICAL AND ELECTRICAL BUILDING COMPONENTS SHALL BE INSTALLED AND ATTACHED TO THE BUILDING TO RESIST THE SEISMIC DESIGN FORCES SPECIFIED PER ASCE/ SEI 7-10 SECTION 13.2 UNLESS EXEMPTED AS LISTED IN ASCE/ SEI 7-10 SECTION 13.1.4.

DIVISION 16 - ELECTRICAL
1. NOT INCLUDED IN PACKAGE PREPARED BY BETA DESIGN GROUP.

ALPHA BLDG SET 08-27-2024

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phase one, for construction

STATE OF GEORGIA — E. MICHAEL SHOALEY — 24407 — REGISTERED ARCHITECT

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Project:
R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Issue Date:	Initial:	Drwg. Revision Description:

Project No.: 2023012
Drwg. Date: 04/15/24
Drwg. Revision:
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012 A-0.2

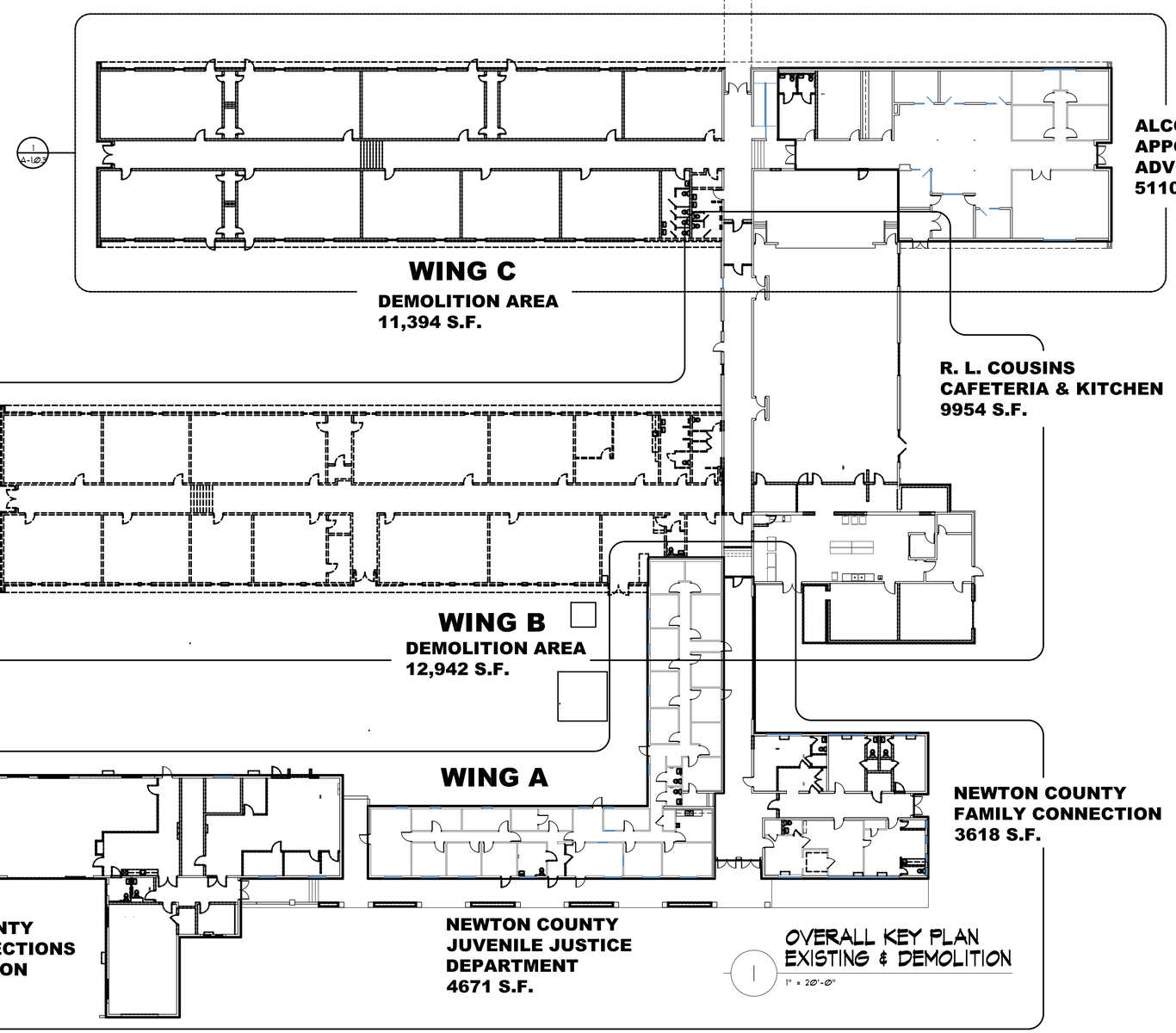
Sheet Title:
GEN. NOTES & SPECS.

Sheet No.:
A-0.2

WING D

KEEP NEWTON BEAUTIFUL, DRIVERS LICENSE DEPT.
NO WORK IN THIS WING

ALPHA BLDG SET 08-27-2024



ALCOVY COURT APPOINTED SPECIAL ADVOCATES (CASA) 5110 S.F.

WING C
DEMOLITION AREA
11,394 S.F.

R. L. COUSINS CAFETERIA & KITCHEN 9954 S.F.

WING B
DEMOLITION AREA
12,942 S.F.

WING A

NEWTON COUNTY FAMILY CONNECTION 3618 S.F.

NEWTON COUNTY BOARD OF ELECTIONS & REGISTRATION 5309 S.F.

NEWTON COUNTY JUVENILE JUSTICE DEPARTMENT 4671 S.F.

OVERALL KEY PLAN
EXISTING & DEMOLITION
1" = 20'-0"

NORTH

phase one, for construction

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CERTIFICATE NO.
REGISTERED ARCHITECT

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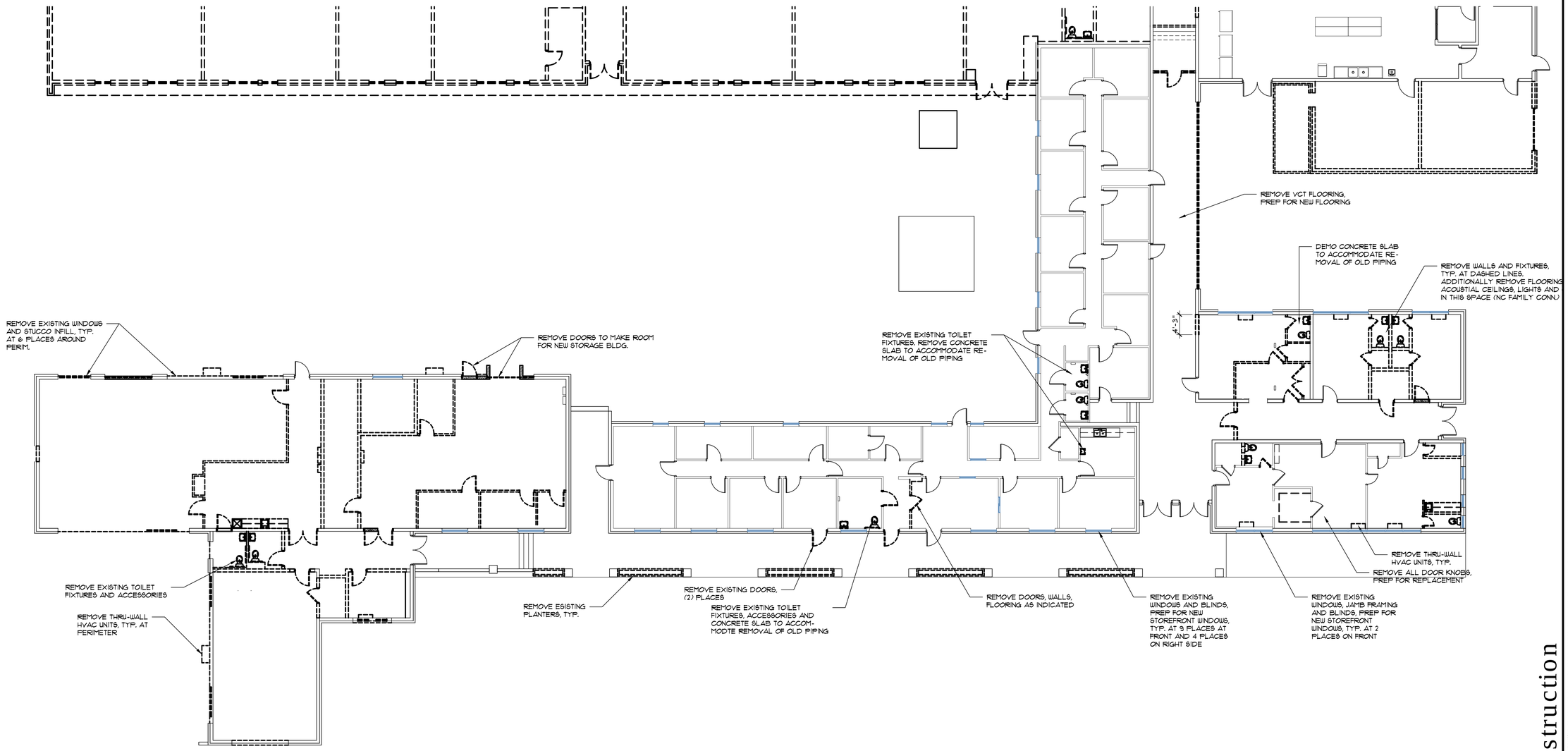
Issue Date:	Initial:	Drwg. Revision Description:

Project No.: 2023012
Drwg. Date: 06/28/24
Drwg. Revision:
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012 A-1.0

Sheet Title:
OVERALL KEY DEMO PLAN

Sheet No.:
A-1.0

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1 WING A DEMOLITION PLAN
3/32" = 1'-0"

NORTH

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phase one, for construction

STATE OF GEORGIA
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CERTIFICATE NO. 21212
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04/15/2024

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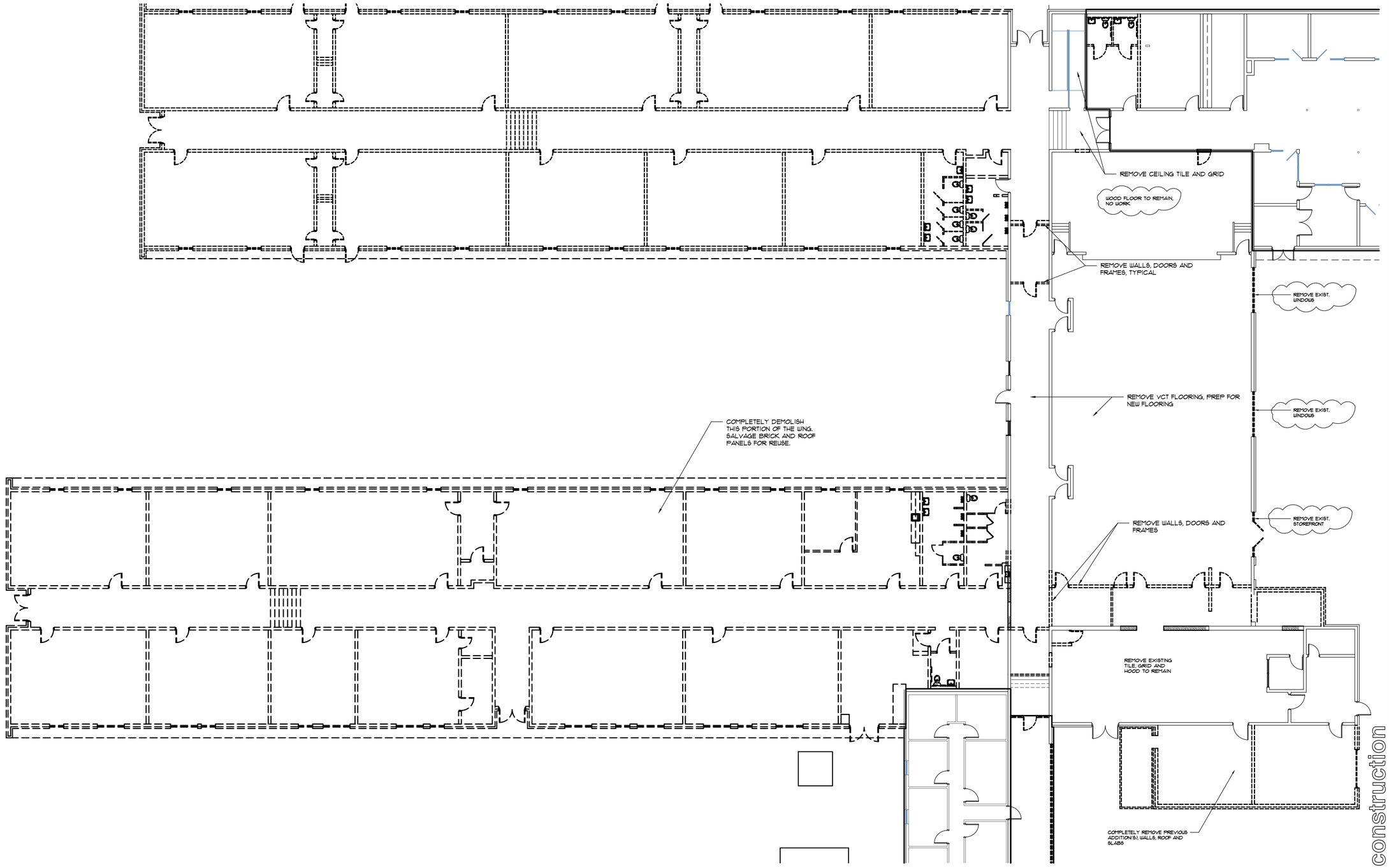
Project:
R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Issue Date:	Initial:	Drwg. Revision Description:

Project No.: 2023012
Drwg. Date: 04/15/24
Drwg. Revision:
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012A-1.0.1

Sheet Title:
WING A DEMO. PLAN

Sheet No.:
A-1.0.1



1 WING B DEMOLITION PLAN
3/32" = 1'-0"

NORTH

ALPHA BLDG SET 08-27-2024

phase one, for construction

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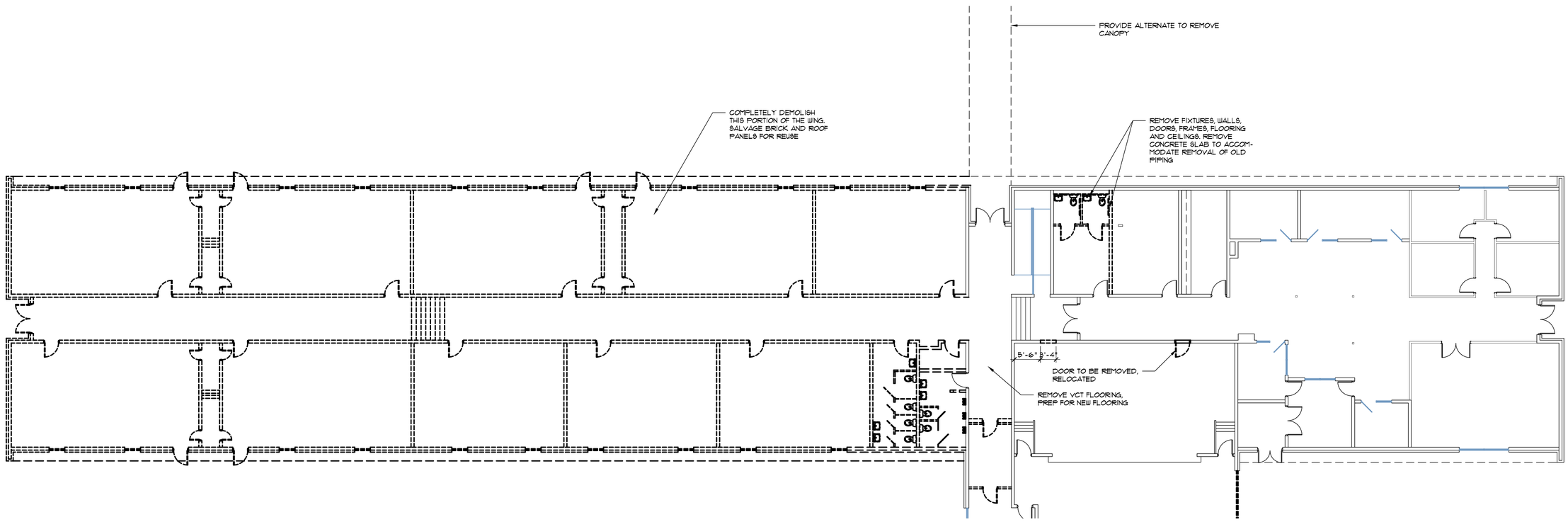
Issue Date:	Initial:	Drwg. Revision Description:
07/11/24	E.M.S.	1. DRWG. COORD. W/ CONTR.

Project No.: 2023012
Drwg. Date: 04/15/24
Drwg. Revision: 07/11/24
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012A-1.0.2

Sheet Title: WING B DEMO. PLAN

Sheet No.: A-1.0.2

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1 WING C DEMO. PLAN
3/32" = 1'-0"

NORTH

ALPHA BLDG SET 08-27-2024

phase one, for construction

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COVINGTON, GEORGIA

Issue Date:	Initial:	Drwg. Revision Description:

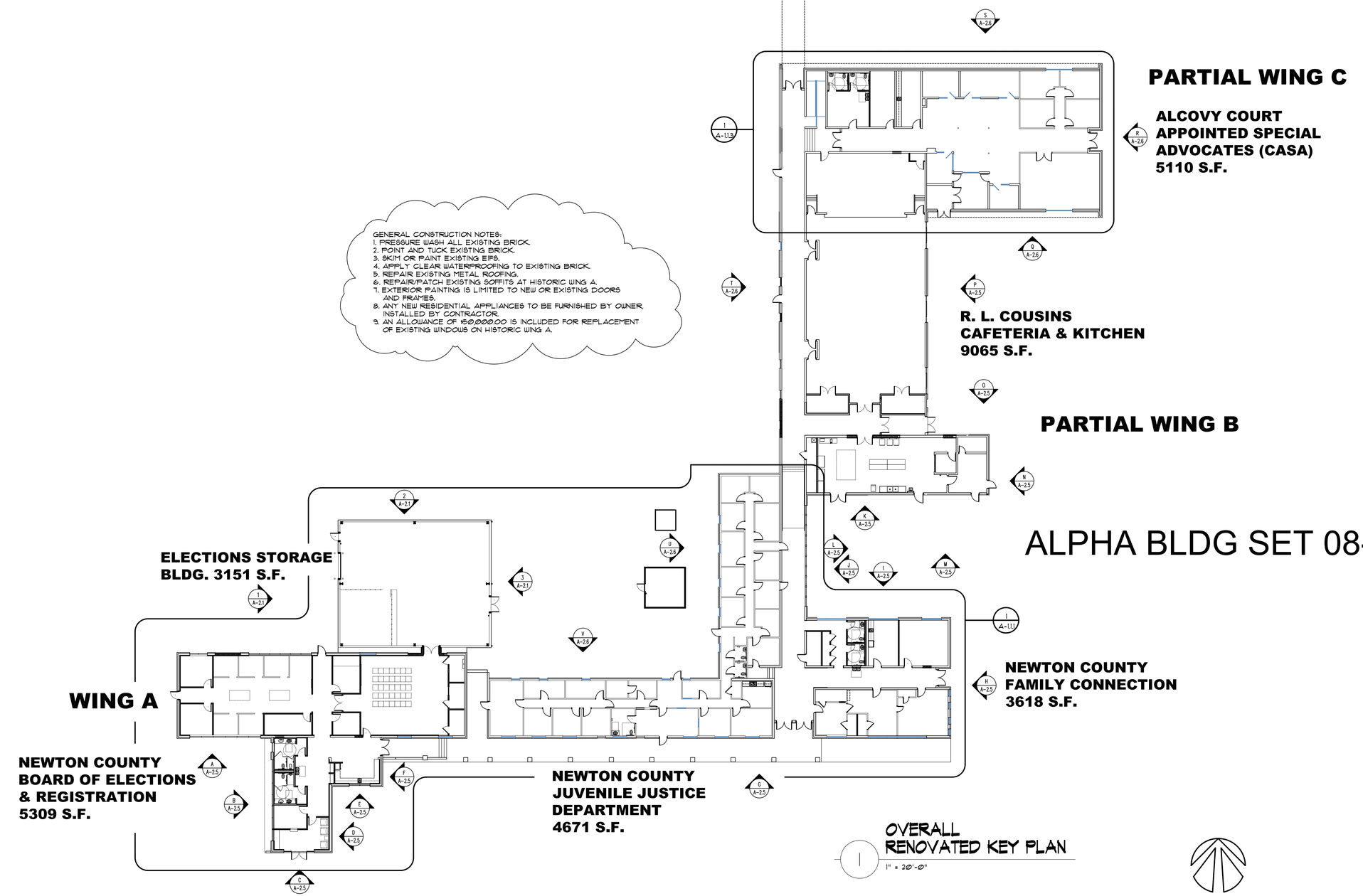
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Drwg. Date: 04/15/24
Drwg. Revision:
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012A-1.0.3

Sheet Title:
WING C
DEMO. PLAN

Sheet No.:
A-1.0.3

WING D

KEEP NEWTON BEAUTIFUL, DRIVERS LICENSE DEPT.
NO WORK IN THIS WING



GENERAL CONSTRUCTION NOTES:
1. PRESSURE WASH ALL EXISTING BRICK.
2. POINT AND TUCK EXISTING BRICK.
3. SKIM OR PAINT EXISTING EIFS.
4. APPLY CLEAR WATERPROOFING TO EXISTING BRICK.
5. REPAIR EXISTING METAL ROOFING.
6. REPAIR/PATCH EXISTING SOFFITS AT HISTORIC WING A.
7. EXTERIOR PAINTING IS LIMITED TO NEW OR EXISTING DOORS AND FRAMES.
8. ANY NEW RESIDENTIAL APPLIANCES TO BE FURNISHED BY OWNER, INSTALLED BY CONTRACTOR.
9. AN ALLOWANCE OF $50,000.00 IS INCLUDED FOR REPLACEMENT OF EXISTING WINDOWS ON HISTORIC WING A.

OVERALL
RENOVATED KEY PLAN
1" = 20'-0"

ALPHA BLDG SET 08-27-2024

phase one, for construction

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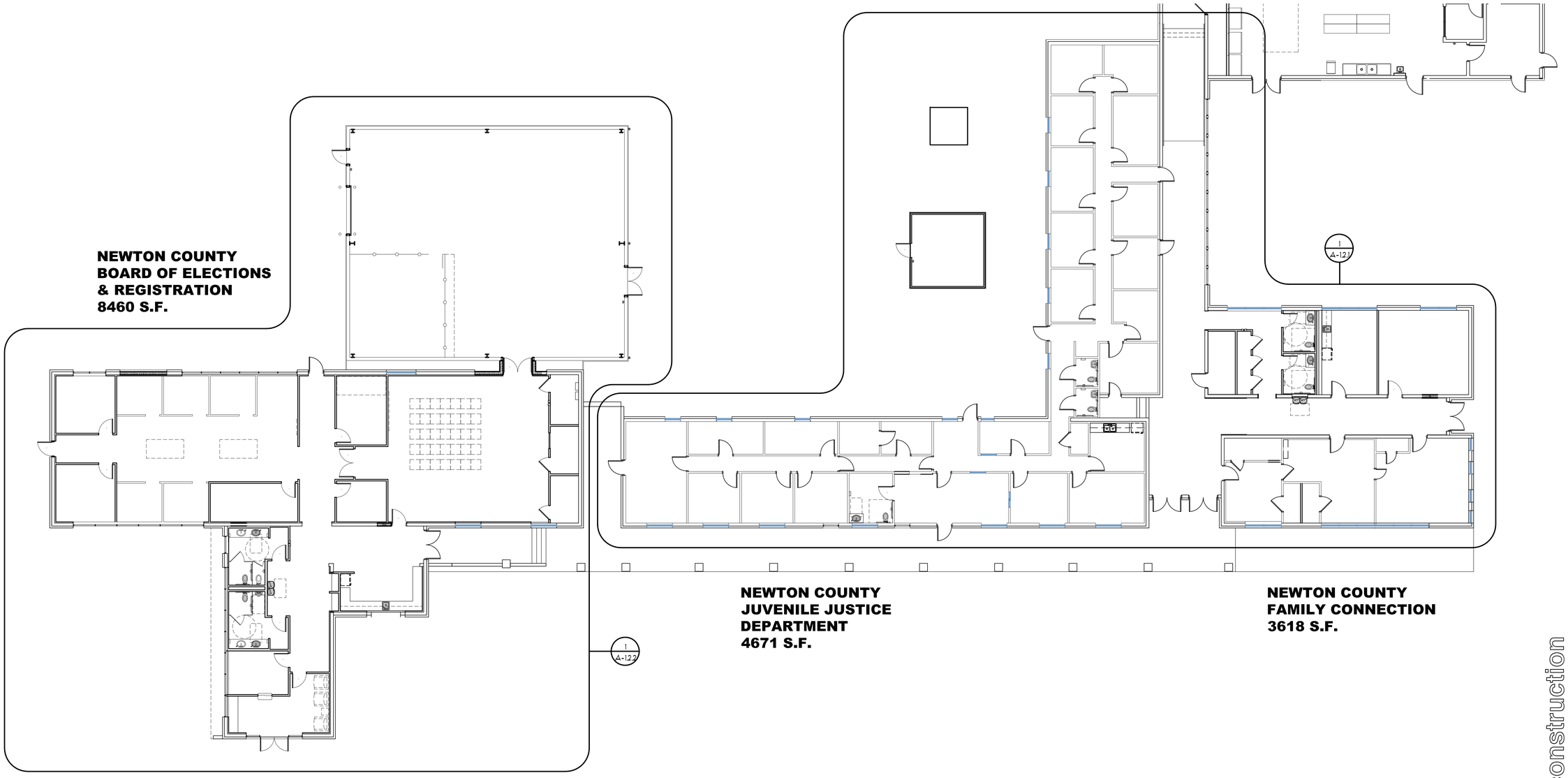
Project:
R. L. COUSINS COMMUNITY CENTER
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8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Issue Date	Initial	Drwg. Revision Description:
07/11/24	E.M.S.	1. DRWG. COORD. W/CONTR.

Project No.: 2023012
Drwg. Date: 06/28/24
Drwg. Revision: 07/11/24
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012-A-1.1

Sheet Title:
OVERALL RENOV. KEY PLAN

Sheet No.:
A-1.1



1 WING A RENOVATED PLAN
3/32" = 1'-0"

NORTH

ALPHA BLDG SET 08-27-2024

phase one, for construction

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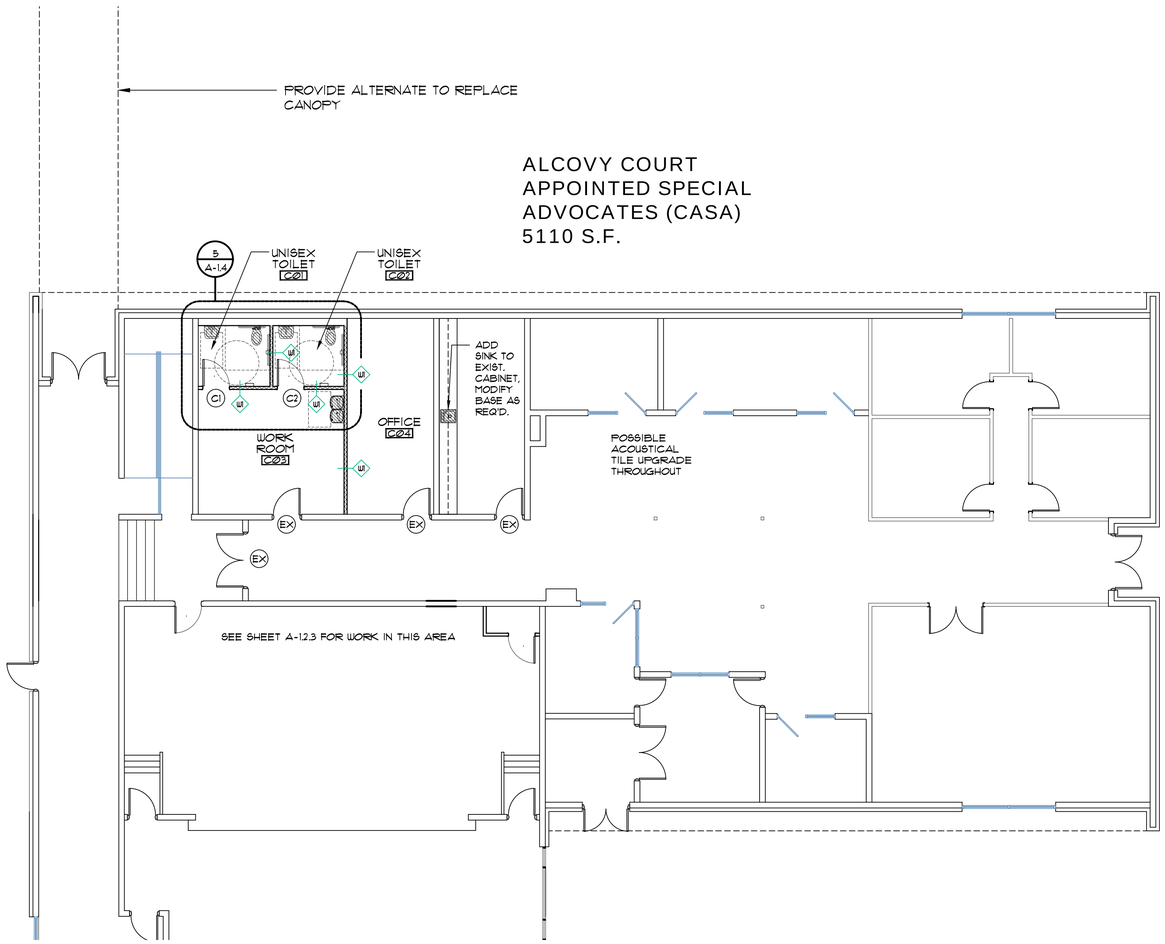
Project:
R. L. COUSINS COMMUNITY
NEWTON CO. BOC RFP #24-04
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COVINGTON, GEORGIA

Issue Date	Initial	Drwg. Revision Description:

Project No.: 2023012
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Drwg. Revision:
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012A-1.1.1

Sheet Title:
WING A RENOV. PLAN

Sheet No.:
A-1.1.1



1 WING C
RENOVATION PLAN
1/8" = 1'-0"

ALPHA BLDG SET 08-27-2024

NORTH

phase one, for construction

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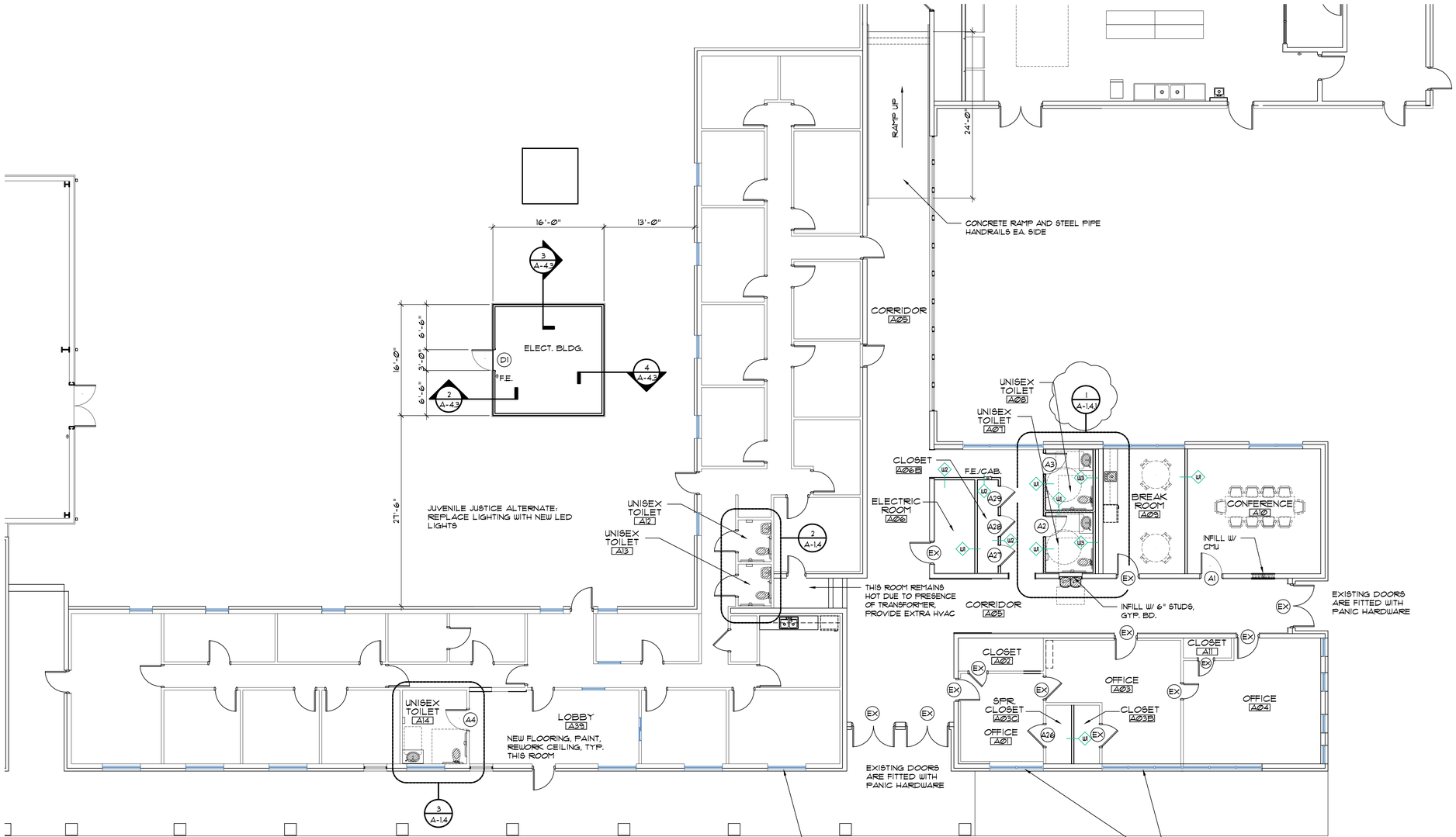
Project:
R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Issue Date:	Initial:	Drwg. Revision Description:

Project No.: 2023012
Drwg. Date: 04/15/24
Drwg. Revision:
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012A-1.1.3

Sheet Title:
WING C
RENOV. PLAN

Sheet No.:
A-1.1.3



1 ENLARGED FLOOR PLAN

1/8" = 1'-0"

NORTH

ALPHA BLDG SET 08-27-2024

phase one, for construction

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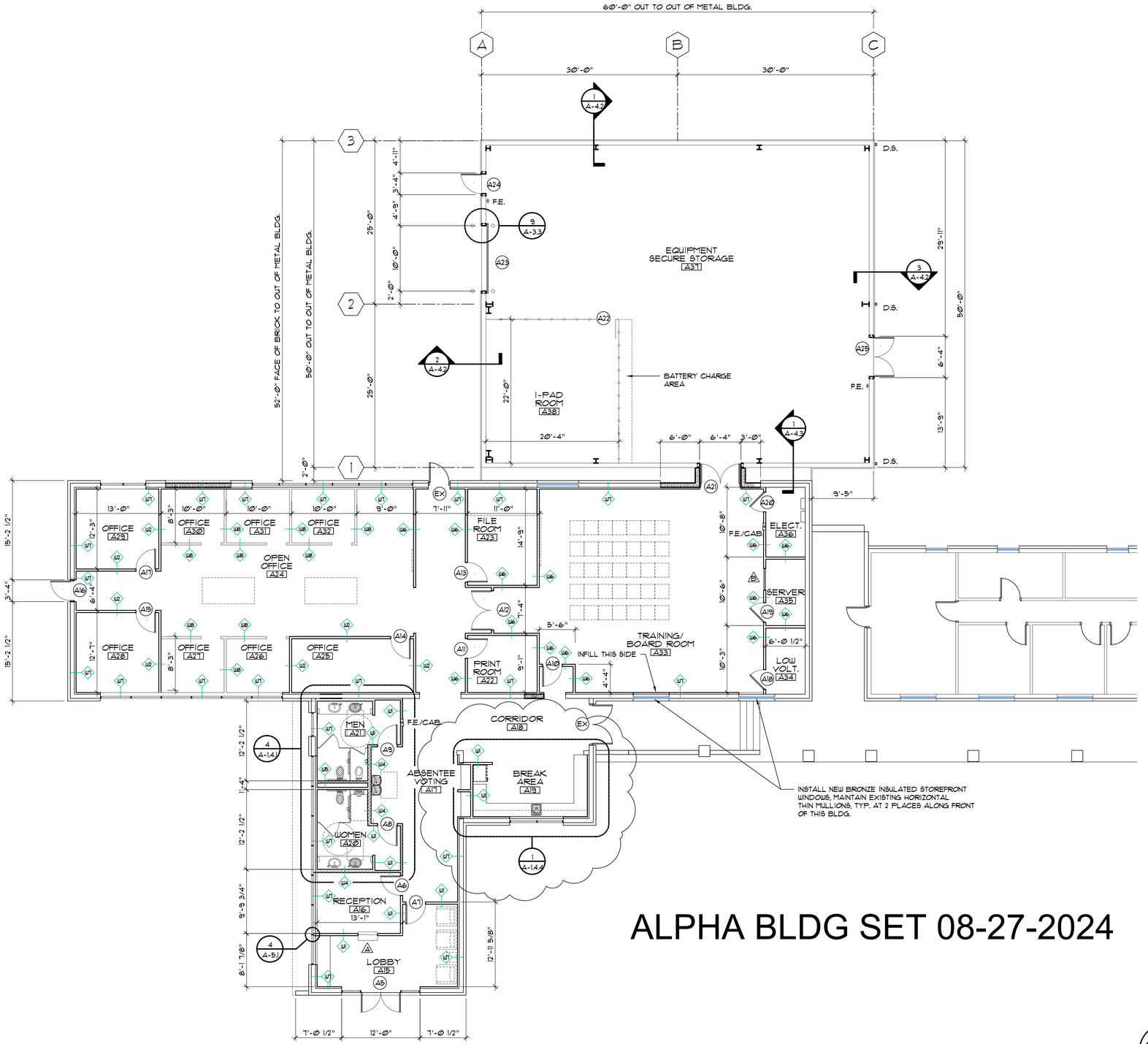
Project:
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COVINGTON, GEORGIA

Issue Date:	Initial	Drwg. Revision Description:
07/11/24	E.M.S.	1. DRWG. COORD. W/ CONTR.
08/26/24	E.M.S.	2. DRAWING COORD.

Project No.: 2023012
Drwg. Date: 04/22/24
Drwg. Revision: 08/26/24
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012A-1.2.1

Sheet Title: ENLARGED FLOOR PLANS

Sheet No.: A-1.2.1



ALPHA BLDG SET 08-27-2024

ENLARGED FLOOR PLAN

1/8" = 1'-0"

NORTH

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phase one, for construction

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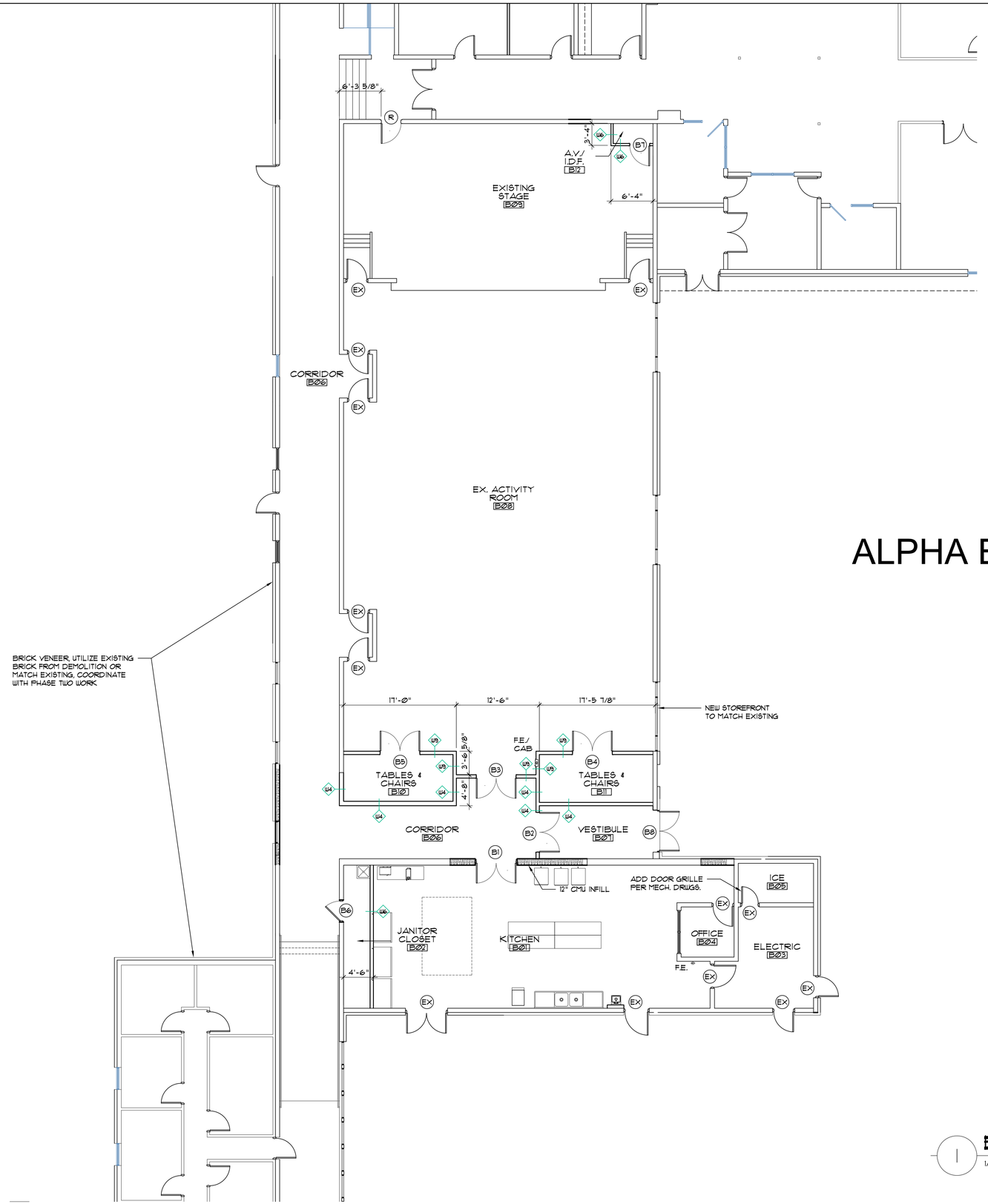
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COVINGTON, GEORGIA

Issue Date:	Initial:	Drwg. Revision Description:
06/12/24	E.M.S.	1. CITY COMMENTS
08/26/24	E.M.S.	2. DRAWING DEVELOPMENT

Project No.: 2023012
Drwg. Date: 04/16/24
Drwg. Revision: 08/26/24
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012A-1.2.2

Sheet Title: ENLARGED FLOOR PLAN

Sheet No.: A-1.2.2



ALPHA BLDG SET 08-27-2024

1 ENLARGED FLOOR PLAN
1/8" = 1'-0"

NORTH

phase one, for construction

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STATE OF GEORGIA — E. MIKE SHULER — CERTIFICATE NO. 21112 — REGISTERED ARCHITECT

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COVINGTON, GEORGIA

Issue Date	Initial	Drwg. Revision Description:

Project No.: 2023012
Drwg. Date: 06/28/24
Drwg. Revision:
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012A-1.2.3

Sheet Title: ENLARGED FLOOR PLAN

Sheet No.: A-1.2.3

1) EACH INDIVIDUAL FIXTURE AND ATTACHMENTS WITH A COMBINED WEIGHT OF 56 LBS. OR LESS SHALL HAVE TWO NO. 12 GAUGE WIRE HANGERS ATTACHED AT DIAGONAL CORNERS OF THE FIXTURE. THESE WIRES MUST BE SLACK. ANY FIXTURE AND ATTACHMENTS WITH A COMBINED WEIGHT GREATER THAN 56 LBS. MUST BE INDEPENDENTLY SUPPORTED FROM THE STRUCTURE.

2) THE MAIN RUNNER/CROSS RUNNER INTERSECTIONS AND ALL GRID SPLICES MUST HAVE AN AVERAGE ULTIMATE TEST STRENGTH OF 60 LBS. OR MORE IN BOTH TENSION AND COMPRESSION. THE TENSILE TEST MUST ALLOW FOR A 50 OFFSET OF THE CONNECTION IN ANY DIRECTION.

3) THE ACTUAL AVERAGE WEIGHT OF THE CEILING SYSTEM, INCLUDING GRID, PANEL OR TILE, LIGHT FIXTURES, AND AIR TERMINALS MUST BE 2.5 LBS./ SF OR LESS. ALL OTHER SERVICES MUST BE SUPPORTED INDEPENDENTLY FROM THE CEILING SYSTEM. FOR CEILINGS THAT HAVE AN AVERAGE WEIGHT GREATER THAN 2.5 LBS./SF, THE CEILING MAY BE INSTALLED AS SPECIFIED IN ZONE 3-4 PROVISIONS, TAKING INTO ACCOUNT THE DESIGN LATERAL FORCE FACTOR APPROPRIATE FOR ZONE 2. OTHER DEVIATIONS OR VARIATIONS MUST BE SUBSTANTIATED BY VERIFIABLE ENGINEERING DATA.

4) THE CEILING SYSTEM CANNOT BE USED TO PROVIDE LATERAL SUPPORT FOR WALLS OR PARTITIONS. WALLS OR PARTITIONS MAY BE ATTACHED TO THE CEILING GRID PROVIDED THEY ALLOW THE CEILING MEMBRANE TO MOVE LATERALLY TO ACCOMMODATE THE REQUIRED CLEARANCE AS SPECIFIED BELOW.

5) ALL PERIMETER CLOSURE ANGLES OR CHANNELS MUST PROVIDE A SUPPORT LEDGE OF APPROXIMATELY 7/8 IN. OR GREATER. A TERMINAL END OF A GRID MEMBER (OR TILE) MUST REST ON THE LEDGE OR MOLDING WITH AT LEAST 3/8 IN. CLEARANCE FROM AN EDGE OR WALL AS SHOWN IN FIGURE 1.

REVEAL (SHADOW) EDGE WALL CLOSURES SHOULD ACCOMMODATE THESE CLEARANCES AS SHOWN IN FIGURE 2.

FOR PERIMETER CLOSURE ANGLES THAT PROVIDE A SUPPORT LEDGE OF LESS THAN NOTED ABOVE, THE TERMINAL ENDS OF EACH CROSS RUNNER OR MAIN RUNNER SHALL BE INDEPENDENTLY SUPPORTED WITHIN 8 IN. FROM EACH WALL OR CEILING DISCONTINUITY AS SHOWN IN FIGURE 3. THIS SUPPORT MAY BE A NO. 12 GAUGE HANGER WIRE OR OTHER SUPPORT THAT PREVENTS THE GRID FROM FALLING. THIS WIRE DOES NOT NEED TO BE VERTICAL BUT SHOULD NOT HAVE A SLOPE GREATER THAN 1 IN 6 OUT-OF-PLUMB. A 3/8 IN. GRID END CLEARANCE FROM A WALL SHOULD BE MAINTAINED.

ALL CEILING PENETRATIONS (COLUMNS, SPRINKLERS, ETC.) AND INDEPENDENTLY SUPPORTED FIXTURES OR SERVICES ARE TO BE CONSIDERED AS PERIMETER CLOSURES THAT ALSO MUST ALLOW THE NOTED CLEARANCES BY USING SUITABLE ESCUTCHEONS OR CLOSURE DETAILS.

6) AT WALL CLOSURE LEDGES, THE CROSS RUNNER AND MAIN RUNNER ENDS SHALL BE PREVENTED FROM SPREADING APART FROM EACH OTHER. PERMANENT ATTACHMENT (I.E., POP RIVETS) FOR GRID ALIGNMENT PURPOSES SHALL NOT BE PERMITTED.

7) FOR ESSENTIAL FACILITIES, PERIMETER SUPPORT OF EACH CROSS RUNNER AND MAIN RUNNER, AS AFOREMENTIONED IN ITEM 5, IS REQUIRED. IN ADDITION, A 1/2 IN. GRID END CLEARANCE FROM A WALL SHOULD BE MAINTAINED.

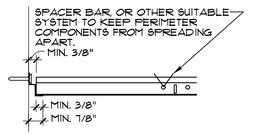
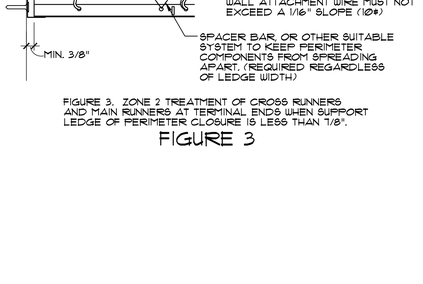


FIGURE 2. ZONE 2 TREATMENT OF CROSS RUNNER, MAIN RUNNERS AND WALL CLOSURER TERMINAL ENDS.

FIGURE 1



REVEAL (SHADOW) EDGE WALL CLOSURES.

FIGURE 2

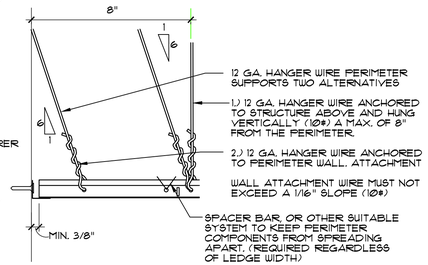


FIGURE 3. ZONE 2 TREATMENT OF CROSS RUNNERS AND MAIN RUNNERS AT TERMINAL ENDS WHEN SUPPORT LEDGE OF PERIMETER CLOSURE IS LESS THAN 7/8".

FIGURE 3

2 SUSPENDED GRID SEISMIC DETAIL

N.T.S. Ø912Ø3ac

(THESE DETAILS APPLY TO ROOMS OVER 144 S.F.)

CEILING LEGEND

MATERIALS

1	2'X2' ACOUSTICAL CEILING TILE, SEE SPECS.
2	2'X2' VINYL CLAD CEILING PANELS
3	EXPOSED (EXISTING) CEILING
4	EXPOSED STRUCTURE, NO CEILING
5	-
6	-
7	GYPSUM BOARD, PAINTED

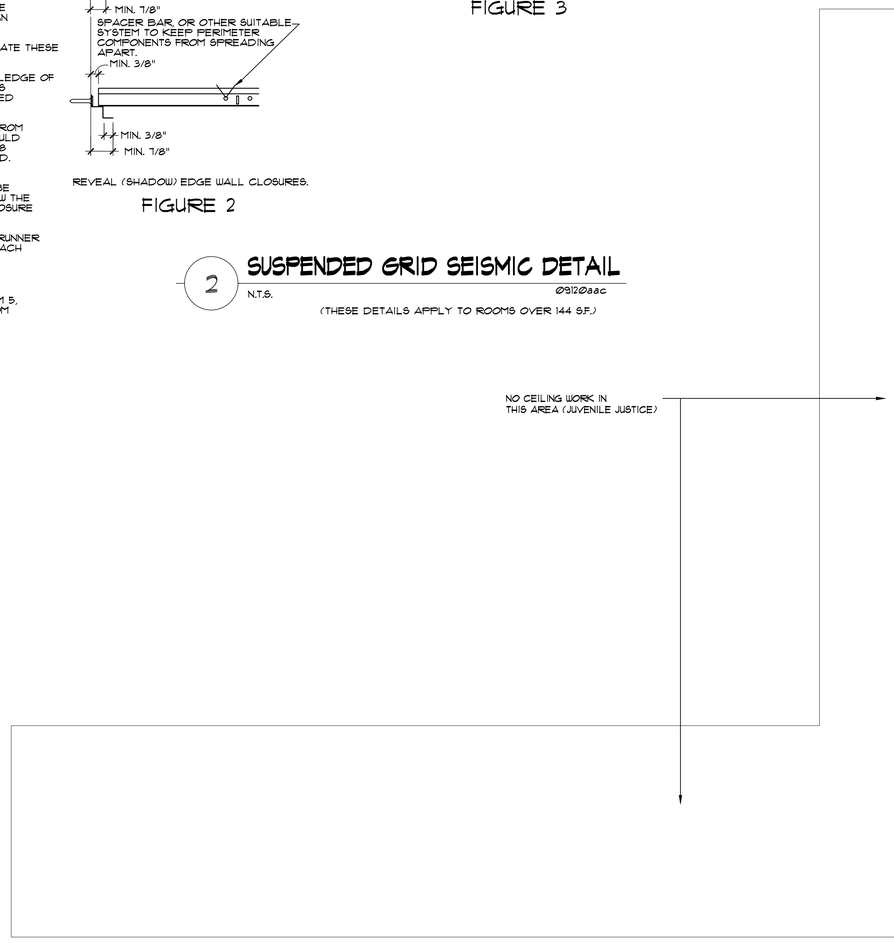
SYMBOLS

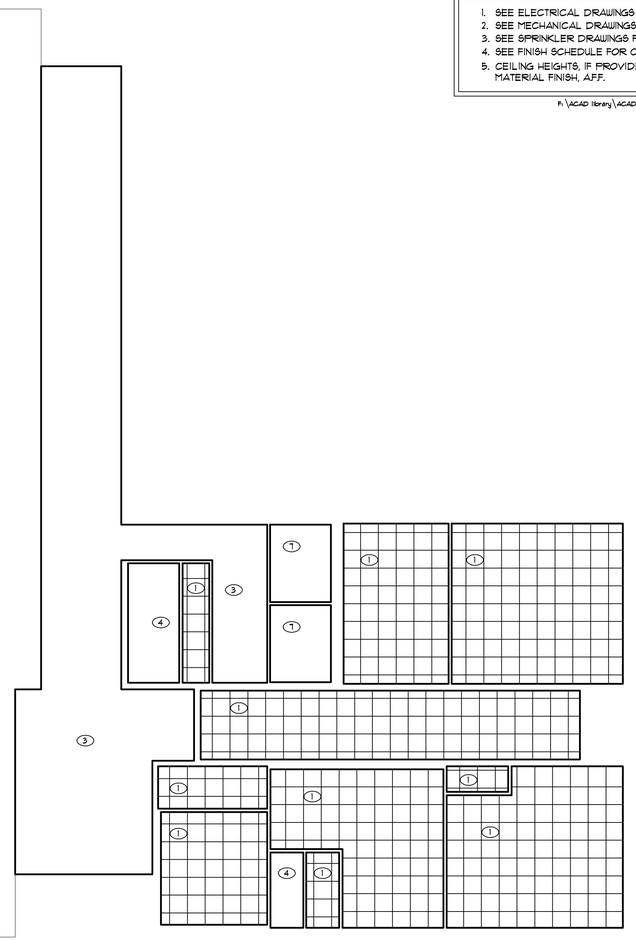
	2X4 FLUORESCENT LIGHT FIXTURE
	2X2 FLUORESCENT LIGHT FIXTURE
	8' FLUORESCENT STRIP LIGHT
	1X8 FLUORESCENT LIGHT
○	RECESSED INCANDESCENT LIGHT
⊕	SURFACE MOUNTED LIGHT FIXTURE
⊕H	WALL MOUNTED LIGHT FIXTURE
(1)	CEILING MATERIAL

CEILING NOTES

1. SEE ELECTRICAL DRAWINGS FOR LIGHTING INFORMATION.
2. SEE MECHANICAL DRAWINGS FOR HVAC INFORMATION.
3. SEE SPRINKLER DRAWINGS FOR SPRINKLER INFORMATION.
4. SEE FINISH SCHEDULE FOR CEILING HEIGHTS.
5. CEILING HEIGHTS, IF PROVIDED, ARE TO THE CEILING MATERIAL FINISH, A.F.F.

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PARTIAL WING A REFLECTED CEILING PLAN

1/8" = 1'-Ø"

ALPHA BLDG SET 08-27-2024

phase one, for construction

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COVINGTON, GEORGIA

Issue Date:	Initial:	Drwg. Revision Description:

Project No.: 2023012
Drwg. Date: 04/15/24
Drwg. Revision:
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012 A-1.3.1

Sheet Title: *REFL. CLNG. PLAN*

Sheet No.: A-1.3.1

CEILING LEGEND

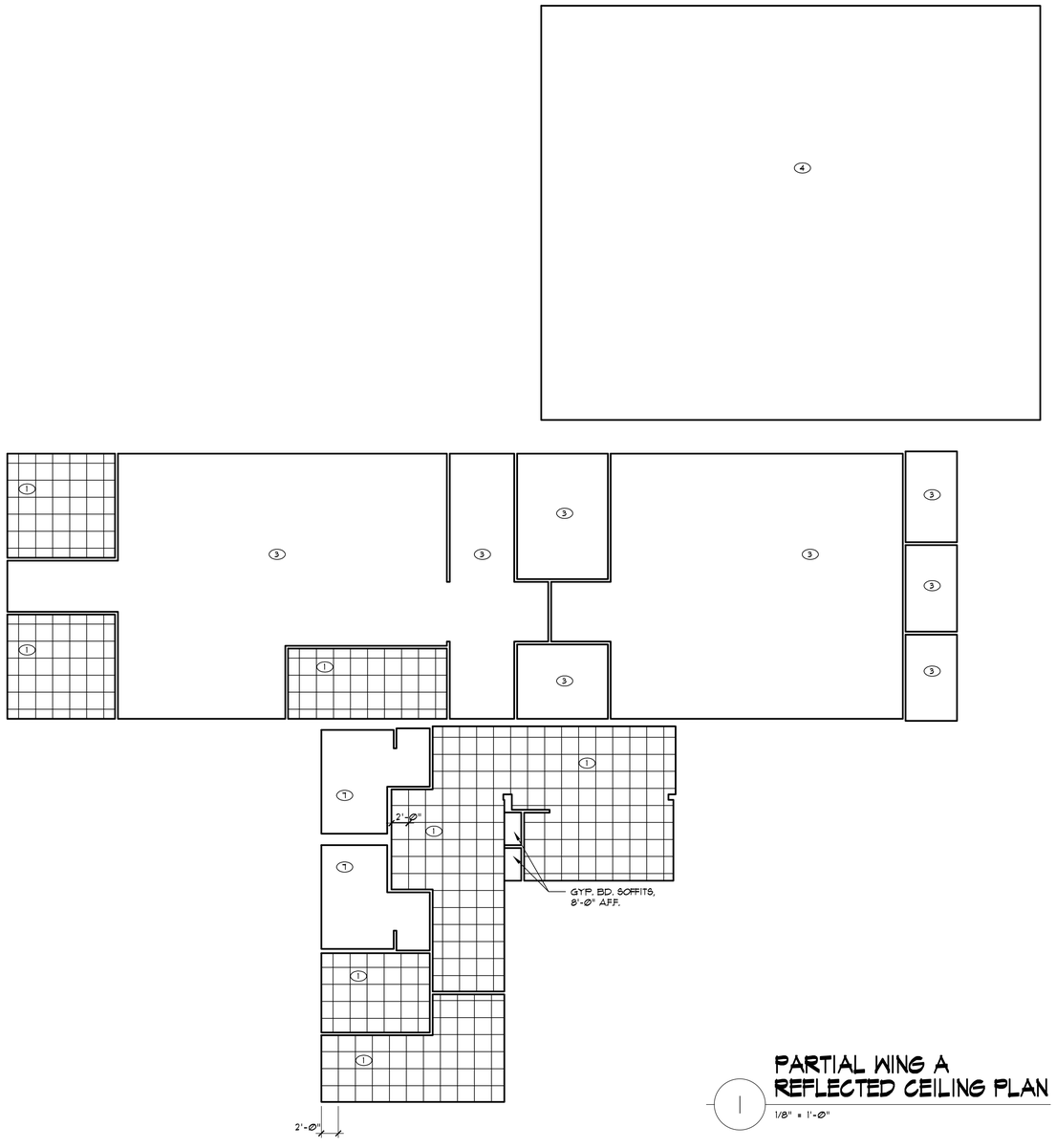
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(2)	2'X2' VINYL CLAD CEILING PANELS
(3)	EXPOSED (EXISTING) CEILING
(4)	EXPOSED STRUCTURE, NO CEILING
(5)	-
(6)	GYPSUM BOARD CLOUD STRUCTURE, COMPASSO EDGE
(7)	GYPSUM BOARD, PAINTED

SYMBOLS	
	2X4 FLUORESCENT LIGHT FIXTURE
	2X2 FLUORESCENT LIGHT FIXTURE
	8' FLUORESCENT STRIP LIGHT
	1X8 FLUORESCENT LIGHT
	RECESSED INCANDESCENT LIGHT
	SURFACE MOUNTED LIGHT FIXTURE
	WALL MOUNTED LIGHT FIXTURE
(1)	CEILING MATERIAL

CEILING NOTES

1. SEE ELECTRICAL DRAWINGS FOR LIGHTING INFORMATION.
2. SEE MECHANICAL DRAWINGS FOR HVAC INFORMATION.
3. SEE SPRINKLER DRAWINGS FOR SPRINKLER INFORMATION.
4. SEE FINISH SCHEDULE FOR CEILING HEIGHTS.
5. CEILING HEIGHTS, IF PROVIDED, ARE TO THE CEILING MATERIAL FINISH, A.F.F.

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PARTIAL WING A
REFLECTED CEILING PLAN

1/8" = 1'-0"

ALPHA BLDG SET 08-27-2024

phase one, for construction

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10841-HWY 8 COVINGTON GA OD14 : 770.788 01 770.788 048

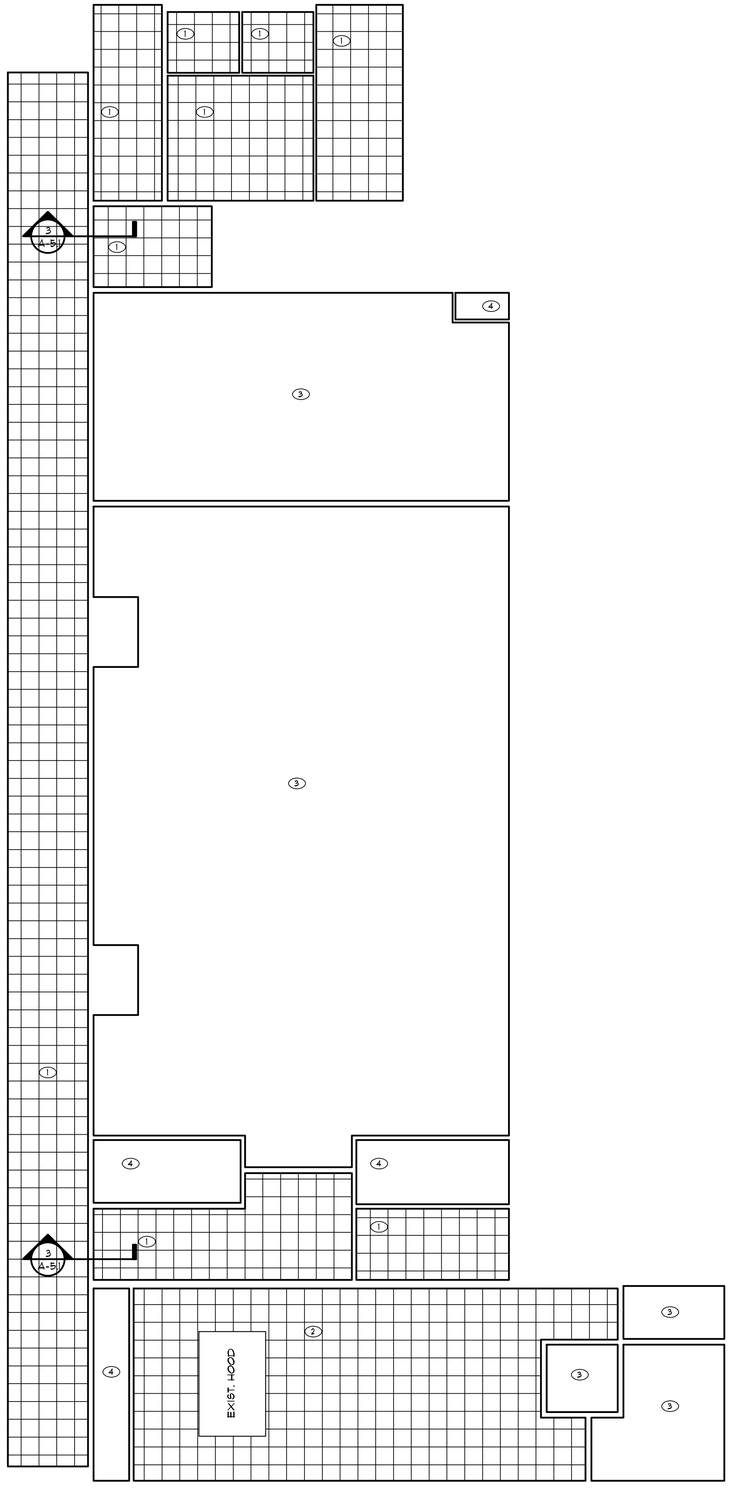
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Project No.: 2023012
Drwg. Date: 04/15/24
Drwg. Revision:
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012-A-1.3.2

Sheet Title: *REFL. CLNG. PLAN*

Sheet No.: A-1.3.2



WING B
REFLECTED CEILING PLAN
1/8" = 1'-0"

CEILING LEGEND

MATERIALS

1	2'X2' ACOUSTICAL CEILING TILE, SEE SPECS.
2	2'X2' VINYL CLAD CEILING PANELS, EXISTING GRID
3	EXPOSED (EXISTING) CEILING
4	EXPOSED STRUCTURE, NO CEILING
5	-

SYMBOLS

- 2X4 FLUORESCENT LIGHT FIXTURE
- 2X2 FLUORESCENT LIGHT FIXTURE
- 8' FLUORESCENT STRIP LIGHT
- 1X8 FLUORESCENT LIGHT
- RECESSED INCANDESCENT LIGHT
- SURFACE MOUNTED LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- (1) CEILING MATERIAL

CEILING NOTES

1. SEE ELECTRICAL DRAWINGS FOR LIGHTING INFORMATION.
2. SEE MECHANICAL DRAWINGS FOR HVAC INFORMATION.
3. SEE SPRINKLER DRAWINGS FOR SPRINKLER INFORMATION.
4. SEE FINISH SCHEDULE FOR CEILING HEIGHTS.
5. CEILING HEIGHTS, IF PROVIDED, ARE TO THE CEILING MATERIAL FINISH, A.F.F.

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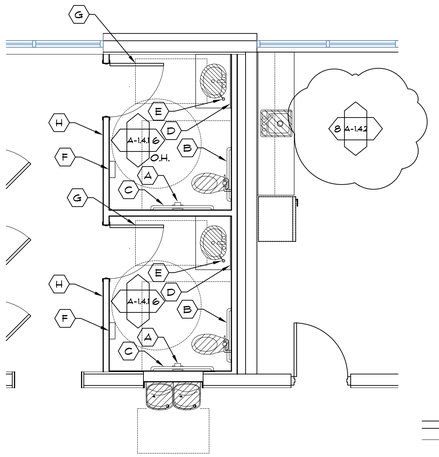
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COVINGTON, GEORGIA

Issue Date:	Initial:	Drwg. Revision Description:

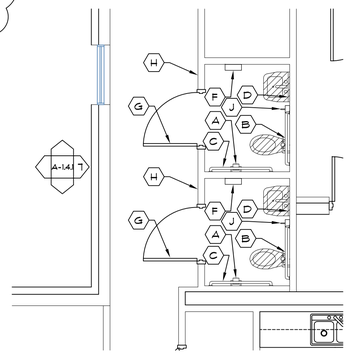
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Drwg. Date: 04/15/24
Drwg. Revision:
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012 A-1.3.3

Sheet Title: *REFL. CLNG. PLAN*

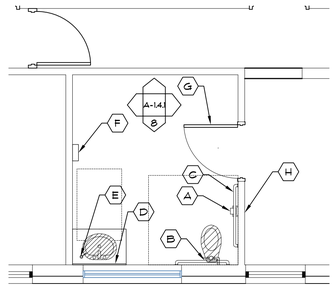
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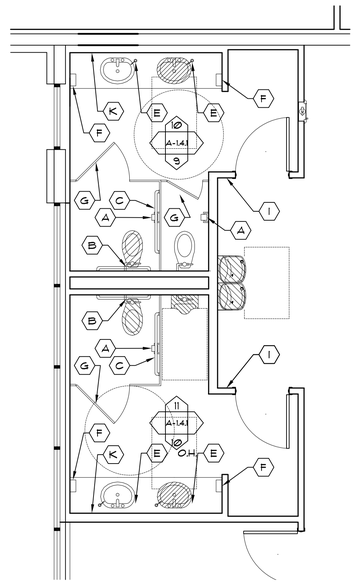
1 ENLARGED TOILET PLAN
1/8" = 1'-0"



2 ENLARGED TOILET PLAN
1/8" = 1'-0"



3 ENLARGED TOILET PLAN
1/8" = 1'-0"

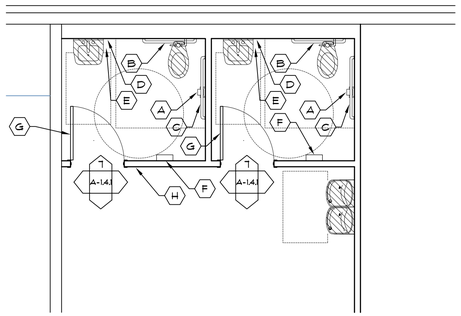


4 ENLARGED TOILET PLAN
1/8" = 1'-0"

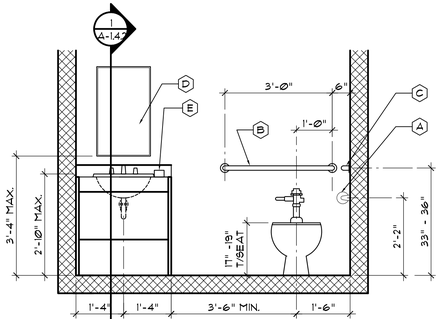
TOILET ACCESSORIES		
MARK	DESCRIPTION	MODEL NO.
A	TOILET PAPER HOLDER, DBL.	ASI *0030
B	36" GRAB BAR, 1 1/2" DIA.	ASI 3700 SERIES
C	42" GRAB BAR, 1 1/2" DIA.	ASI 3700 SERIES
D	MIRROR, S.S. CHANNEL FRAME, 18 X 36	ASI 0620-1830
E	SOAP DISPENSER, COUNTER MOUNT	ASI *0332-D
F	PAPER TOWEL DISPENSER	ASI *0210
G	COAT HOOK	ASI *0714
H	HANDICAP SIGN, UNISEX	
I	HANDICAP SIGN, PER GENDER	
J	SOAP DISPENSER, WALL MOUNT	ASI *0347
K	MIRROR, FULL LENGTH OF VANITY	-

ALPHA BLDG

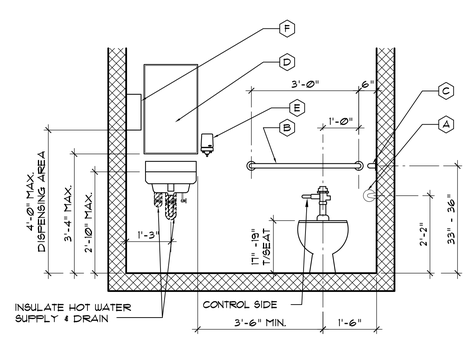
SET 08-27-2024



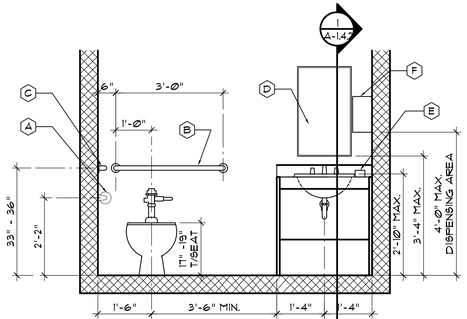
5 ENLARGED TOILET PLAN
1/8" = 1'-0"



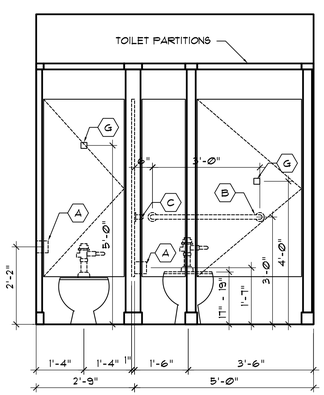
6 H.C. TOILET ELEVATION
1/2" = 1'-0" 10810aax



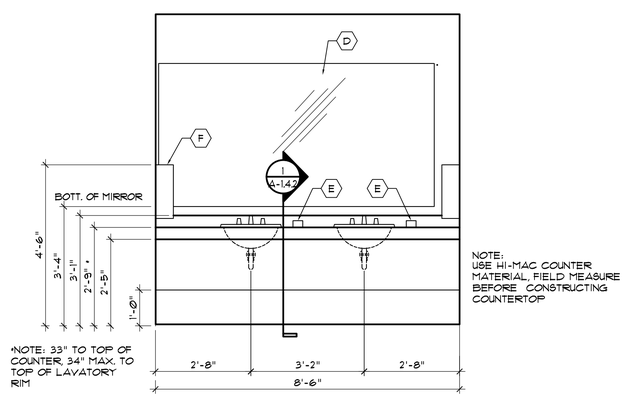
7 H.C. TOILET ELEVATION
1/2" = 1'-0" 10810aay



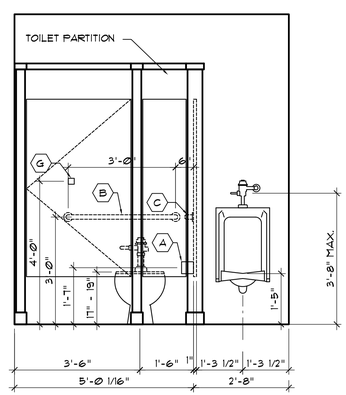
8 H.C. TOILET ELEVATION
1/2" = 1'-0" 10810aax



9 TOILET ELEVATION
1/2" = 1'-0" 10810aac



10 TOILET ELEVATION
1/2" = 1'-0" 10810aac



11 TOILET ELEVATION
1/2" = 1'-0" 10810aac

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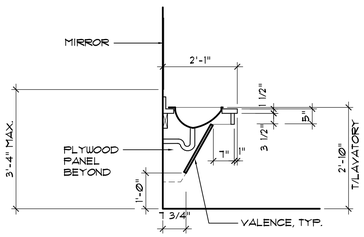
Project:
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8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Issue Date:	Initial	Drwg. Revision Description:
08/26/24	E.M.S.	1. DRAWING DEVELOPMENT

Project No.: 2023012
Drwg. Date: 04/15/24
Drwg. Revision: 08/26/24
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012A-1.4.1

Sheet Title:
ENLARGED TOILET PLANS

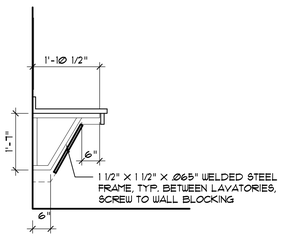
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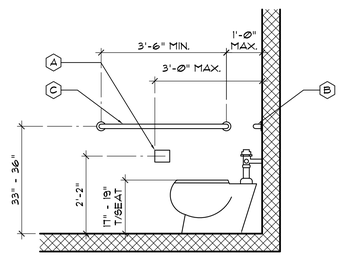
1/2" = 1'-0" 10810aay

CABINET VENDOR TO COORDINATE LAVATORY DIMENSION PRIOR TO MOUNTING CABINETRY



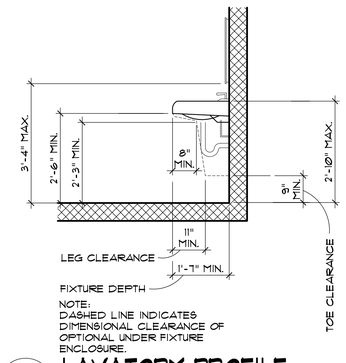
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1/2" = 1'-0"



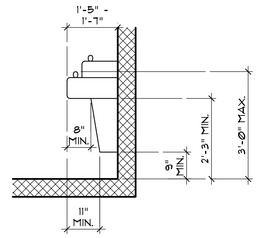
2 H.C. WATER CLOSET

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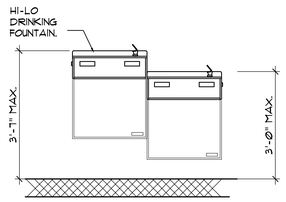
3 LAVATORY PROFILE

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4 E.W.C. CLEARANCES

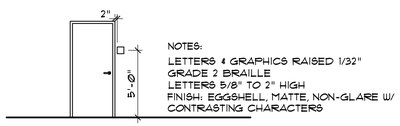
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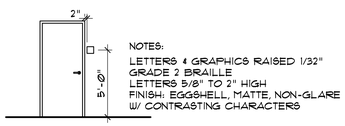
5 E.W.C. ELEVATION

1/2" = 1'-0" 15412aaa

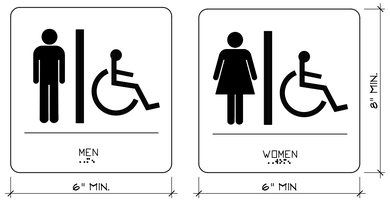
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TYPICAL HANDICAP SIGN RELATIONSHIP W/ DOOR



TYPICAL HANDICAP SIGN RELATIONSHIP W/ DOOR



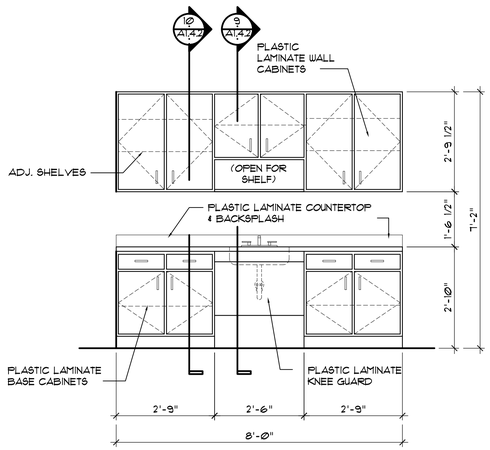
6 A.D.A. ACCESSIBLE TOILET SIGN DETAIL

1 1/2" = 1'-0" 10440haa



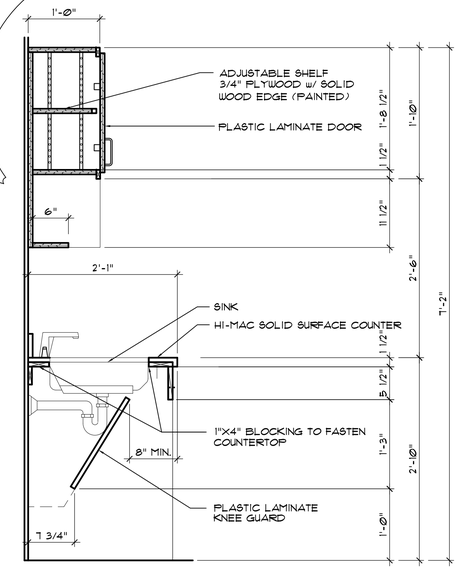
7 A.D.A. ACCESSIBLE TOILET SIGN DETAIL

1 1/2" = 1'-0" 10440haa



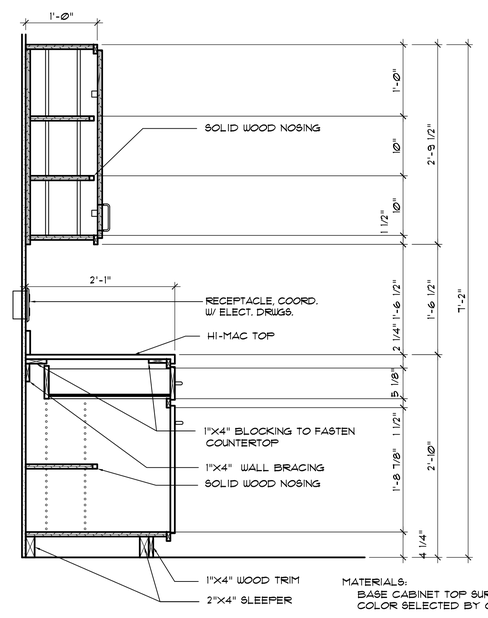
8 BREAK ROOM CABINET ELEVATION

1/2" = 1'-0" 06410csa



9 BREAK ROOM COUNTER SECTION AT SINK

1" = 1'-0" 06410csa



10 BREAK ROOM COUNTER SECTION

1" = 1'-0" 06410csa

STATE OF GEORGIA
E. LAWRENCE SHIRLEY
CERTIFICATE NO. 19113
REGISTERED ARCHITECT

Beta Design Group, Inc.
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2118 Rosser Place Stone Mountain, GA. 30087
Phone: 770.491.9250
Email: mikes@betadesigngroup.com

Client:
SUNBELT BUILDERS™
10841 HWY 9 ROSWELL GA 30076 | 770.998.0101 | 770.998.0461

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Project:
R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

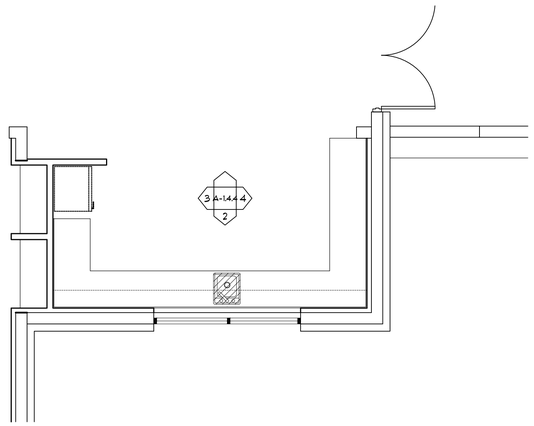
Issue Date:	Initial:	Drwg. Revision Description:
08/26/24	E.M.S.	1. ADDED CABINETS

Project No.: 2023012
Drwg. Date: 04/15/24
Drwg. Revision: 08/26/24
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012A-1.4.2

Sheet Title:
TOILET & CAB. DETAILS

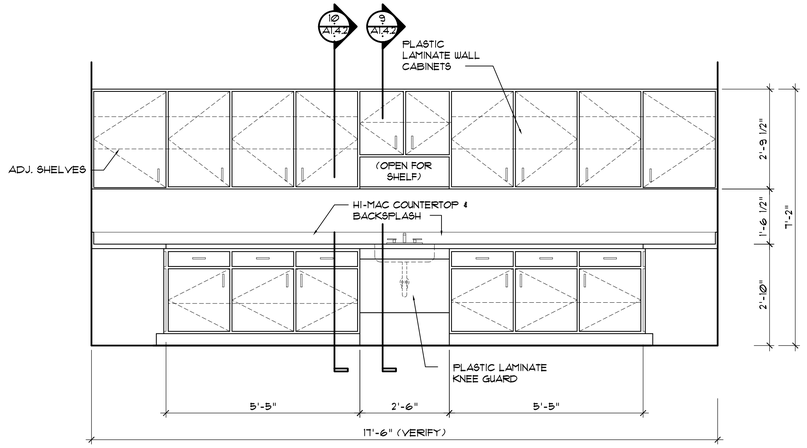
Sheet No.:
A-1.4.2

phase one, for construction



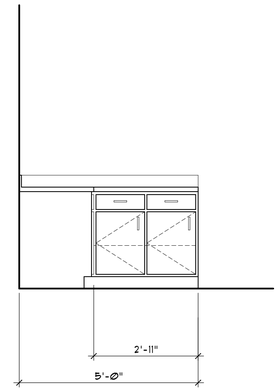
1 ENLARGED CABINET PLAN

1/8" = 1'-0"



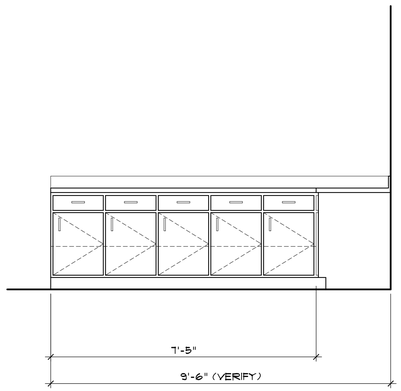
2 CABINET ELEVATION

1/2" = 1'-0"



3 CABINET ELEVATION

1/2" = 1'-0"



4 CABINET ELEVATION

1/2" = 1'-0"

ALPHA BLDG SET 08-27-2024

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phase one, for construction

Issue Date: | Initial: | Drwg. Revision Description:
08/26/24 | E.M.S. | 1. NEW SHEET ADDED

Project No.: 2023012
Drwg. Date: 08/26/24
Drwg. Revision: 08/26/24
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012A-1.4.4

Sheet Title: CABINET DETAILS

Sheet No.: A-1.4.4

Client:
SUNBELT BUILDERS
1084 HWY 8 COVINGTON GA 30014 | 770 786 0101 | 770 786 0460

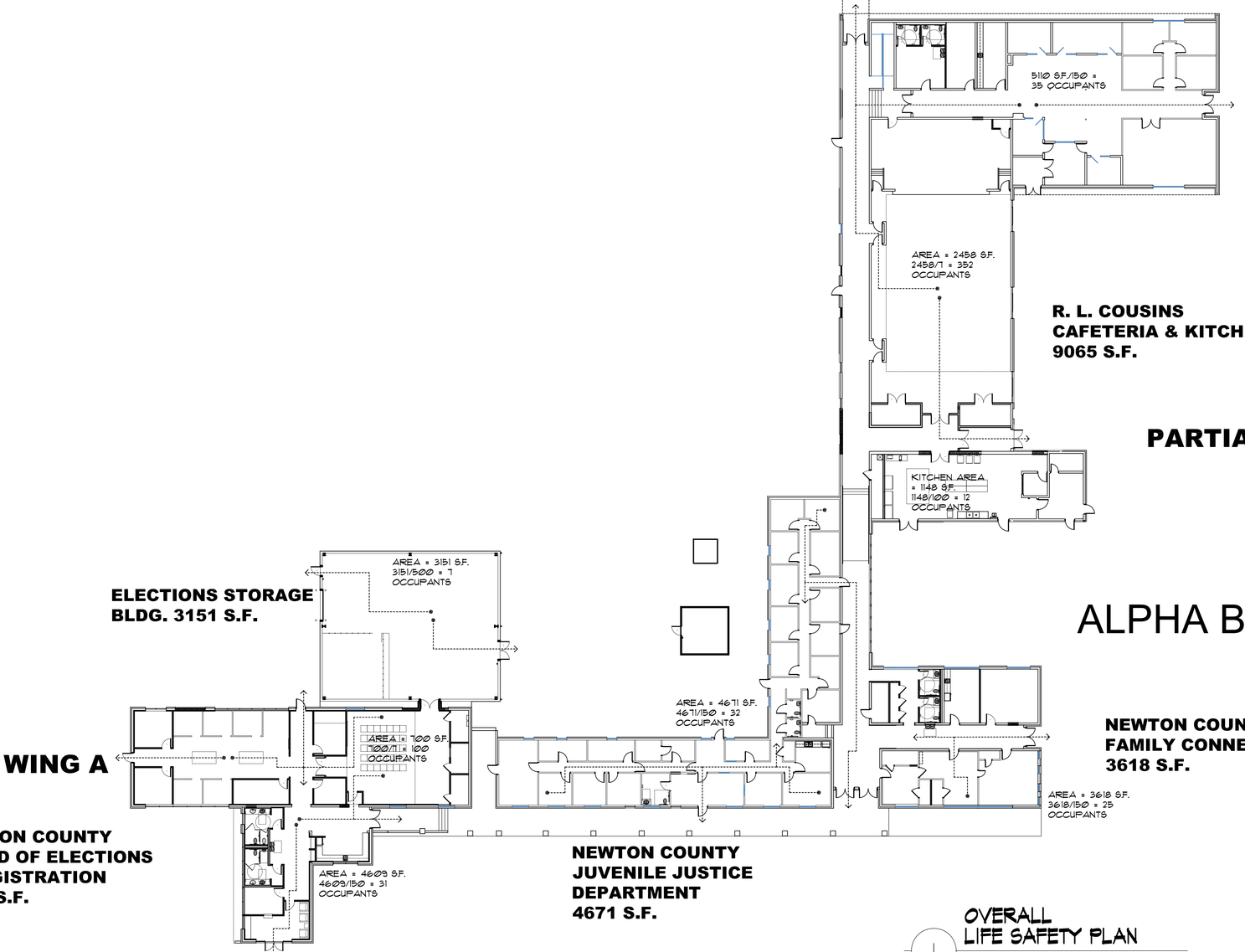
Project:
R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Beta Design Group, Inc.
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Email: mikes@betadesigngroup.com

STATE OF GEORGIA
E. MICHAEL SCHULTZ
LICENSED ARCHITECT
CERTIFICATE NO. 019118
REGISTERED ARCHITECT

WING D

KEEP NEWTON BEAUTIFUL, DRIVERS LICENSE DEPT.
NO WORK IN THIS WING



PARTIAL WING C

ALCOVY COURT APPOINTED SPECIAL ADVOCATES (CASA) 5110 S.F.

R. L. COUSINS CAFETERIA & KITCHEN 9065 S.F.

PARTIAL WING B

ELECTIONS STORAGE BLDG. 3151 S.F.

WING A

NEWTON COUNTY FAMILY CONNECTION 3618 S.F.

NEWTON COUNTY BOARD OF ELECTIONS & REGISTRATION 5309 S.F.

NEWTON COUNTY JUVENILE JUSTICE DEPARTMENT 4671 S.F.

ALPHA BLDG SET 08-27-2024

OVERALL LIFE SAFETY PLAN

1" = 20'-0"

NORTH

phase one, for construction

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STATE OF GEORGIA E. MICHAEL SMALLEY CERTIFICATE NO. 21112 REGISTERED ARCHITECT

Client:
SUNBELT BUILDERS
1084 HWY 8 COVINGTON GA 30014 770 786 0101 770 786 0460

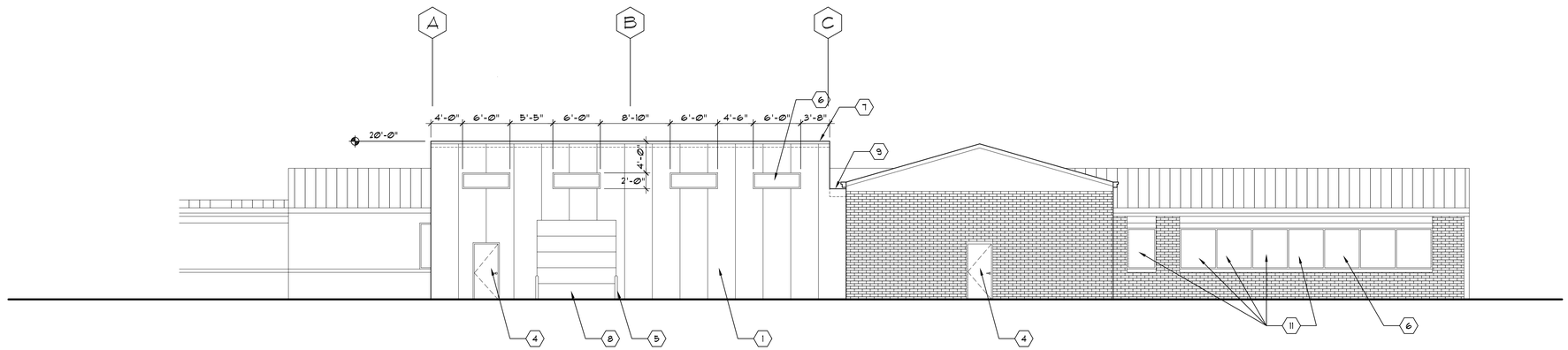
Project:
R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Issue Date	Initial	Drwg. Revision Description:
08/12/24	E.M.S.	1. NEW SHEET ADDED

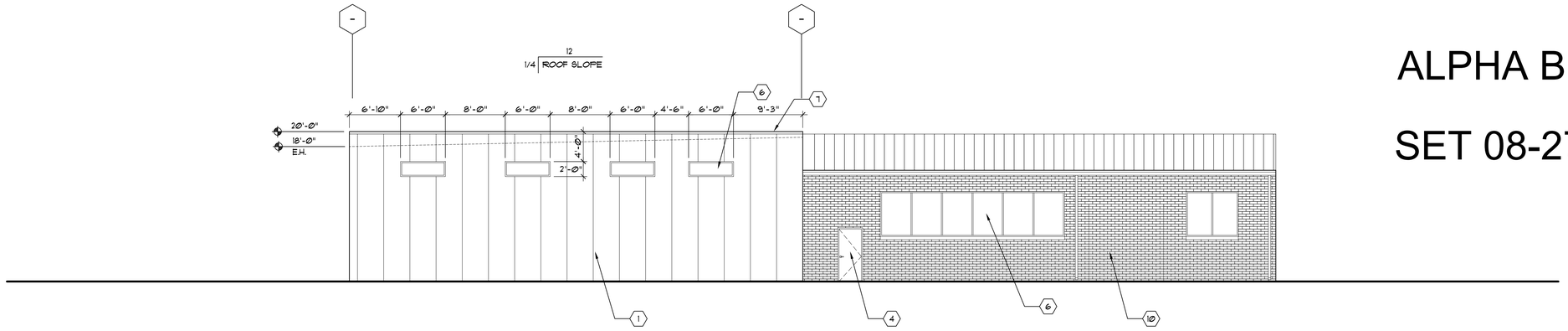
Project No.: 2023012
Drwg. Date: 08/12/24
Drwg. Revision:
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012-A-1.5.1

Sheet Title: *OVERALL LIFE SAFETY PLAN*

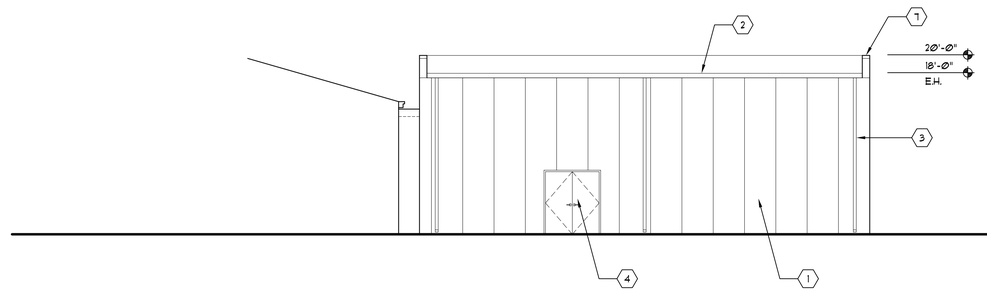
Sheet No.: A-1.5.1



1 WEST ELEVATION
1/8" = 1'-Ø"



2 NORTH ELEVATION
1/8" = 1'-Ø"



3 EAST ELEVATION
1/8" = 1'-Ø"

ALPHA BLDG

SET 08-27-2024

ELEVATION MATERIAL LEGEND

#	DESCRIPTION
1	2" INSULATED METAL WALL PANELS
2	26 GA. PREFINISHED METAL GUTTER BY METAL BLDG. MFR.
3	26 GA. PREFINISHED 4" X 5" METAL DOWNSPOUT BY METAL BLDG. MFR. COMPLIMENT WALL COLOR
4	PAINTED H.M. DOOR & FRAME W/ 4" CONCRETE PAD
5	6" DIA PIPE BOLLARD, PTD. SAFETY YELLOW
6	INSULATED GLASS IN ALUM. FRAMES, SEE SPECS.
7	26 GA. PREFINISHED METAL COPING, COOR. W/ PANEL COLOR
8	PREFINISHED 24 GA. SECTIONAL STEEL VERT. LIFT DOCK DOOR, SEE SCHEDULE FOR SIZE, ETC.
9	VINYL LINED METAL VALLEY GUTTER
10	BRICK INFILL, USE EXISTING DEMOED BRICK
11	INSULATED SPANDREL GLASS

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phase one, for construction

Beta Design Group, Inc.
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STATE OF GEORGIA
E. MICHAEL SCHULTZ
CERTIFICATE NO. 019118
REGISTERED ARCHITECT

Client:
SUNBELT BUILDERS
10841 HWY 9 ROSWELL GA 30076 | 770 751 0146

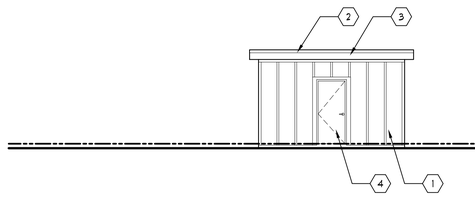
Project:
R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Issue Date:	Initial:	Drwg. Revision Description:

Project No.: 2023012
Drwg. Date: 04/22/24
Drwg. Revision:
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012 A-2.1

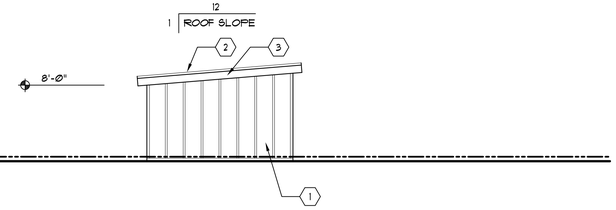
Sheet Title:
BUILDING ELEVATIONS

Sheet No.:
A-2.1



1 WEST ELEVATION

1/8" = 1'-0"



2 NORTH ELEVATION

1/8" = 1'-0"

ELEVATION MATERIAL LEGEND

#	DESCRIPTION
1	SMOOTH HARDIE BOARD, WITH 2 1/4" BATTENS AT 2'-0" O.C.
2	24 GA. PREFINISHED METAL EDGE FLASHING
3	1 X 12 AZEK TRIM BOARD
4	PAINTED HM. DOOR & FRAME W/ 4" CONCRETE PAD

ALPHA BLDG SET 08-27-2024

phase one, for construction

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STATE OF GEORGIA
E. M. SMITH
LICENSE NUMBER
PSC000113
CERTIFICATE NO.
REGISTERED ARCHITECT

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SUNBELT BUILDERS™
1084 HWY 8 LOGANVILLE GA 30014 (770) 985 0101 770 985 046

Project:
R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Issue Date:	Initial:	Drwg. Revision Description:

Project No.: 2023012
Drwg. Date: 04/22/24
Drwg. Revision:
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012 A-2.3

Sheet Title:
BUILDING ELEVATIONS

Sheet No.:
A-2.3

INTERIOR FINISH SCHEDULE

MARK	ROOM NAME	WALLS		CEILING			BASE		FLOOR	REMARKS *
		MATERIAL	FINISH	MATERIAL	FINISH	HEIGHT	MATERIAL	FINISH		
	FAMILY SERVICES									
A01	OFFICE	EXISTING GYPSUM BOARD	PT.	ACOUSTICAL.	F.F.	EXIST.	4" RUBBER	F.F.	CARPET	
A02	OFFICE	EXISTING GYPSUM BOARD	PT.	ACOUSTICAL.	F.F.	EXIST.	4" RUBBER	F.F.	CARPET	
A03	OFFICE	EXISTING GYPSUM BOARD	PT.	ACOUSTICAL	F.F.	EXIST.	4" RUBBER	F.F.	CARPET	
A03B	CLOSET	GYPSUM BOARD	PT.	ACOUSTICAL	F.F.	EXIST.	4" RUBBER	F.F.	CARPET	
A03C	SPRINKLER CLOSET	GYPSUM BOARD	UNPT.	-	-.	EXIST.	-	-	CONCRETE	
A04	OFFICE	EXISTING GYPSUM BOARD	PT.	ACOUSTICAL	F.F.	EXIST.	4" RUBBER	F.F.	CARPET	
A05	CORRIDOR	EXISTING GYPSUM BOARD/CMU	PT.	EXIST./ACOUSTICAL	F.F.	EXIST.	4" RUBBER	F.F.	L.V.T.	
A06	ELECTRIC ROOM	EXISTING GYPSUM BOARD/CMU	UNPTD.	EXP. STRUCTURE	-	EXIST.	-	-	EXISTING	
A06B	CLOSET	GYPSUM BOARD	PT.	ACOUSTICAL	F.F.	EXIST.	4" RUBBER	F.F.	L.V.T.	
A07	UNISEX TOILET	GYPSUM BOARD	C.T. FULL HT. ON WET WALL	ACOUSTICAL	F.F.	EXIST.	CERAMIC COVE BASE	F.F.	C.T.	6
A08	UNISEX TOILET	GYPSUM BOARD	C.T. FULL HT. ON WET WALL	ACOUSTICAL	F.F.	EXIST.	CERAMIC COVE BASE	F.F.	C.T.	6
A09	BREAK ROOM	GYPSUM BOARD	PT.	ACOUSTICAL	F.F.	EXIST.	4" RUBBER	F.F.	L.V.T.	
A10	CONFERENCE	GYPSUM BOARD	PT.	ACOUSTICAL.	F.F.	EXIST.	4" RUBBER	F.F.	CARPET	
A11	CLOSET	EXISTING GYPSUM BOARD	PT.	ACOUSTICAL.	F.F.	EXIST.	4" RUBBER	F.F.	CARPET	
	JUVENILE JUSTICE									
A12	UNISEX TOILET	EXISTING GYPSUM BOARD	C.T. FULL HT. ON WET WALL	ACOUSTICAL	F.F.	EXIST.	CERAMIC COVE BASE	F.F.	C.T.	6
A13	UNISEX TOILET	EXISTING GYPSUM BOARD	C.T. FULL HT. ON WET WALL	ACOUSTICAL	F.F.	EXIST.	CERAMIC COVE BASE	F.F.	C.T.	6
A14	UNISEX TOILET	EXISTING GYPSUM BOARD	C.T. FULL HT. ON WET WALL	ACOUSTICAL	F.F.	EXIST.	CERAMIC COVE BASE	F.F.	C.T.	6
A39	LOBBY	GYPSUM BOARD	PT.	ACOUSTICAL	F.F.	EXIST	4" RUBBER	F.F.	L.V.T.	
	ELECTIONS									
A15	LOBBY	GYPSUM BOARD	PT.	ACOUSTICAL	F.F.	9'-0"	4" RUBBER	F.F.	L.V.T.	
A16	RECEPTION	GYPSUM BOARD	PT.	ACOUSTICAL	F.F.	9'-0"	4" RUBBER	F.F.	L.V.T.	
A17	ABSENTEE VOTING	GYPSUM BOARD	PT.	ACOUSTICAL	F.F.	9'-0"	4" RUBBER	F.F.	L.V.T.	
A18	CORRIDOR	GYPSUM BOARD/C.M.U.	PT.	ACOUSTICAL	F.F.	9'-0"	4" RUBBER	F.F.	L.V.T.	
A19	BREAK AREA	GYPSUM BOARD	PT.	ACOUSTICAL	F.F.	9'-0"	4" RUBBER	F.F.	L.V.T.	
A20	WOMEN'S TOILET	GYPSUM BOARD	C.T. FULL HT. ON WET WALL	ACOUSTICAL	F.F.	9'-0"	CERAMIC COVE BASE	F.F.	C.T.	6
A21	MEN'S TOILET	GYPSUM BOARD	C.T. FULL HT. ON WET WALL	ACOUSTICAL	F.F.	9'-0"	CERAMIC COVE BASE	F.F.	C.T.	6
A22	PRINT ROOM	GYPSUM BOARD	PT.	EXISTING	PT.	EXISTING	4" RUBBER	F.F.	L.V.T.	
A23	FILE ROOM	GYPSUM BOARD	PT.	EXISTING	PT.	EXISTING	4" RUBBER	F.F.	L.V.T.	
A24	OPEN OFFICE	GYPSUM BOARD	PT.	EXISTING	PT.	EXISTING	4" RUBBER	F.F.	L.V.T.	
A25	OFFICE	GYPSUM BOARD	PT.	EXISTING	PT.	EXISTING	4" RUBBER	F.F.	CARPET	
A26	OFFICE	GYPSUM BOARD	PT.	EXISTING	PT.	EXISTING	4" RUBBER	F.F.	CARPET	
A27	OFFICE	GYPSUM BOARD	PT.	EXISTING	PT.	EXISTING	4" RUBBER	F.F.	CARPET	
A28	OFFICE	GYPSUM BOARD	PT.	ACOUSTICAL	F.F.	12'-2"	4" RUBBER	F.F.	CARPET	
A29	OFFICE	GYPSUM BOARD	PT.	ACOUSTICAL	F.F.	12'-2"	4" RUBBER	F.F.	CARPET	
A30	OFFICE	GYPSUM BOARD	PT.	EXISTING	PT.	EXISTING	4" RUBBER	F.F.	CARPET	
A31	OFFICE	GYPSUM BOARD	PT.	EXISTING	PT.	EXISTING	4" RUBBER	F.F.	CARPET	
A32	OFFICE	GYPSUM BOARD	PT.	EXISTING	PT.	EXISTING	4" RUBBER	F.F.	CARPET	
A33	TRAINING/BOARD ROOM	GYPSUM BOARD	PT.	EXISTING	PT.	EXISTING	4" RUBBER	F.F.	L.V.T.	
A34	LOW VOLTAGE CLOSET	GYPSUM BOARD	PT.	EXISTING	PT.	EXISTING	-	-	EXP. CONCRETE	
A35	SERVER ROOM	GYPSUM BOARD	PT.	EXISTING	PT.	EXISTING	4" RUBBER	F.F.	ANTI-STATIC V.C.T.	
A36	ELECTRIC ROOM	GYPSUM BOARD	UNPTD.	EXISTING	PT.	EXISTING	-	-	EXP. CONCRETE	
A37	EQUIPMENT SECURE STORAGE	EXPOSED STRUCTURE	PT.	EXP. STR.	-	VARIES	-	-	EXP. CONCRETE	1
A38	I-PAD ROOM	GYPSUM BOARD	PT.	EXP. STR.	-	VARIES	4" RUBBER	F.F.	EXP. CONCRETE	
	ALUMNI CAFETERIA & KITCHEN									
B01	KITCHEN	EXISTING C.M.U.	PT.	REPLACE EXISTING	-	EXISTING	EXIST. QUARRY TILE	F.F.	EXISTING QUARRY TILE	2
B02	JANITOR CLOSET	EXISTING C.M.U./GYPSUM BD.	PT.	EXISTING	-	VARIES	EXIST. QUARRY TILE	F.F.	EXISTING QUARRY TILE	
B03	ELECTRIC ROOM	EXISTING C.M.U.	PT.	EXISTING	-	VARIES	-	-	EXISTING CONCRETE	
B04	KITCHEN OFFICE	EXISTING C.M.U.	PT.	ACOUSTICAL	F.F.	EXISTING	EXIST. QUARRY TILE	F.F.	EXISTING QUARRY TILE	
B05	ICE MACHINE ROOM	EXISTING C.M.U.	PT.	EXISTING	-	VARIES	-	-	EXISTING CONCRETE	
B06	CORRIDOR	EXISTING C.M.U. GYPSUM BD.	PT.	ACOUSTICAL	F.F.	12'-0"	4" RUBBER	F.F.	L.V.T.	4
B07	VESTIBULE	EXISTING C.M.U. GYPSUM BD.	PT.	ACOUSTICAL	F.F.	12'-0"	4" RUBBER	F.F.	L.V.T.	4
B08	EXISTING ACTIVITY ROOM	EXISTING C.M.U.	PT.	EXISTING	-	VARIES	EXISTING RUBBER BASE	F.F.	L.V.T.	3, 7
B09	EXISTING STAGE	EXISTING C.M.U.	PT.	EXISTING	-	VARIES	EXISTING	F.F.	EXISTING WOOD FLOOR	7
B10	TABLE AND CHAIR STORAGE	GYPSUM BOARD	PT.	EXISTING	PT.	EXISTING	4" RUBBER	F.F.	EXISTING V.C.T.	5
B11	TABLE AND CHAIR STORAGE	GYPSUM BOARD	PT.	EXISTING	PT.	EXISTING	4" RUBBER	F.F.	EXISTING V.C.T.	5
B12	A.V./I.D.F.	GYPSUM BOARD	PT.	ACOUSTICAL	F.F.	9'-0"	4" RUBBER	F.F.	EXISTING WOOD FLOOR.	
	C.A.S.A.									
C01	UNISEX TOILET	GYPSUM BOARD	C.T. FULL HT. ON WET WALL	ACOUSTICAL	F.F.	EXISTING	CERAMIC COVE BASE	F.F.	C.T.	6
C02	UNISEX TOILET	GYPSUM BOARD	C.T. FULL HT. ON WET WALL	ACOUSTICAL	F.F.	EXISTING	CERAMIC COVE BASE	F.F.	C.T.	6
C03	WORKROOM	GYPSUM BOARD	PT.	ACOUSTICAL	F.F.	EXISTING	MATCH EXIST. 4" RUBBER	F.F.	EXISTING CARPET TILES	
C02	OFFICE	GYPSUM BOARD	PT.	ACOUSTICAL	F.F.	EXISTING	MATCH EXIST. 4" RUBBER	F.F.	EXISTING CARPET TILES	

F:\ACAD library ACAD Legends Notes and Schedules Master Legends.dwg

ABBREVIATIONS

CONC. = CONCRETE
E.S. = EXPOSED STRUCTURE
PT. = PAINT
F.F. = FACTORY FINISH
P.F. = PRE-FINISHED
L.V.T. = LUXURY VINYL TILE
C.T. = CERAMIC TILE
F.R.P. = FIBERGLASS REINFORCED PLASTIC
V.C.T. = VINYL COMPOSITION TILE

GENERAL FINISH NOTES:

A ADVISE CONSULTANT OF ANY CONFLICT W/ FINISHES PRIOR TO INSTALLATION.
B ALL FINISH MATERIALS ARE FURNISHED AND INSTALLED BY CONTRACTOR, UNLESS NOTED OTHERWISE.
C ALL EXPOSED DUCTWORK, PIPING AND CONDUIT TO REMAIN UNPAINTED.
D COORDINATE & CONFIRM COMPATIBILITY OF ALL FINISHES, (INTERIOR & EXTERIOR) MATERIALS, SEALANTS, SEALERS, PAINTS, CAULK, ADHESIVES, ETC., WITH SUBSTRATES, ADJACENT MATERIALS, ETC.
E ALL FINISHES IN EXIT PASSAGEWAYS SHALL BE CLASS A OR B. ALL OTHERS SHALL BE CLASS C MINIMUM.

* REMARKS:

1. 4" RUBBER BASE AND PAINT AT WAREHOUSE SIDE
2. CLEAN FLOOR
3. REPAIR AND CLEAN FLOOR, REPLACE MISSING RUBBER BASE
4. REMOVE EXISTING QUARRY TILE, PREP FOR NEW FLOORING
5. PATCH V.C.T. FLOOR
6. TILE, FLOORS AND WALLS, TO BE 12" X 24"
7. PAINT (DRY FOG) CEILING, WHITE

PAINTING NOTES:

A HOLLOW METAL DOORS & FRAMES RECEIVE (2) COATS OF ENAMEL.
B OVERHEAD DOOR GUARD POST RECEIVE (2) COATS OF ENAMEL.
C ALL EXPOSED STEEL SHALL RECEIVE (1) SHOP COAT OF RUST PREVENTATIVE PRIMER. TOUCH UP STEEL WITH MATCHING PRIMER AFTER STEEL ERECTION IS COMPLETE.

ALPHA BLDG SET 08-27-2024

phase one, for construction

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STATE OF GEORGIA
E. MIKE SHIRLEY
CERTIFICATE NO. PE 019777
REGISTERED ARCHITECT

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SUNBELT BUILDERS
10841 HWY 9 ROSWELL GA 30076 770 98 01 770 98 046

Project:
R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Issue Date:	Initial	Drwg. Revision Description:
07/11/24	E.M.S.	1. DRWG. COORD. W/ OWNER

Project No.: 2023012
Drwg. Date: 04/22/24
Drwg. Revision: 07/11/24
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012 A-3.1

Sheet Title:
ROOM FINISH SCHEDULE

Sheet No.:
A-3.1

DOOR SCHEDULE

MARK	SIZE (W X H X T)	TYPE	DESCRIPTION	FINISH	FRAME WIDTH	FRAME MAT.	FRAME FINISH	DETAIL	CLOSER?	LABEL	REMARKS	MARK
EX			EXISTING DOOR									E
R			RELOCATED DOOR									R
A1	3'-0" X 7'-0" X 1 3/4"	B	BIRCH VENEER SCWD, FLUSH W/ VIEW PANEL	ST.	6 3/4"	HM.	PT.	-	-	-	2, 4, 14	A1
A2	3'-0" X 7'-0" X 1 3/4"	A	BIRCH VENEER SCWD, FLUSH	ST.	5 3/4"	HM.	PT.	-	-	-	15, 18	A2
A3	3'-0" X 7'-0" X 1 3/4"	A	BIRCH VENEER SCWD, FLUSH	ST.	5 3/4"	HM.	PT.	-	-	-	15, 18	A3
A4			REUSE EXISTING DOOR, CHANGING HAND									A4
A5	PR 3'-0" X 7'-0" X 1 3/4"	C	ALUMINUM STOREFRONT DOORS	P.F.	4"	AL.	P.F.	-	Y	-	3, 5, 6, 7, 13, 14, 16, 17, 21	A5
A6	3'-0" X 7'-0" X 1 3/4"	B	BIRCH VENEER SCWD, FLUSH W/ VIEW PANEL	ST.	5 3/4"	HM.	PT.	-	-	-	2, 4, 18	A6
A7	3'-0" X 7'-0" X 1 3/4"	B	BIRCH VENEER SCWD, FLUSH W/ VIEW PANEL	ST.	5 3/4"	HM.	PT.	-	-	-	2, 4, 18	A7
A8	3'-0" X 7'-0" X 1 3/4"	A	BIRCH VENEER SCWD, FLUSH	PT.	5 3/4"	HM.	PT.	-	-	-	15, 18	A8
A9	3'-0" X 7'-0" X 1 3/4"	A	BIRCH VENEER SCWD, FLUSH	ST.	5 3/4"	HM.	PT.	-	-	-	15, 18	A9
A10	3'-0" X 7'-0" X 1 3/4"	B	BIRCH VENEER SCWD, FLUSH W/ VIEW PANEL	ST.	5 3/4"	HM.	PT.	-	Y	-	2, 4, 18	A10
A11	3'-0" X 7'-0" X 1 3/4"	A	BIRCH VENEER SCWD, FLUSH	ST.	5 3/4"	HM.	PT.	-	-	-	18, 24	A11
A12	PR 3'-0" X 7'-0" X 1 3/4"	A	BIRCH VENEER SCWD, FLUSH	ST.	5 3/4"	HM.	PT.	-	-	-	-	A12
A13	3'-0" X 7'-0" X 1 3/4"	A	BIRCH VENEER SCWD, FLUSH	ST.	5 3/4"	HM.	PT.	-	-	-	18, 24	A13
A14	3'-0" X 7'-0" X 1 3/4"	B	BIRCH VENEER SCWD, FLUSH W/ VIEW PANEL	ST.	5 3/4"	HM.	PT.	-	-	-	2, 4, 18, 24	A14
A15	3'-0" X 7'-0" X 1 3/4"	B	BIRCH VENEER SCWD, FLUSH W/ VIEW PANEL	ST.	5 3/4"	HM.	PT.	-	-	-	2, 4, 18, 24	A15
A16	3'-0" X 7'-0" X 1 3/4"	A	HOLLOW METAL, FLUSH	PT.	6 3/4"	HM.	PT.	-	Y	-	1, 5, 6, 7, 13, 14, 21	A16
A17	3'-0" X 7'-0" X 1 3/4"	B	BIRCH VENEER SCWD, FLUSH W/ VIEW PANEL	ST.	5 3/4"	HM.	PT.	-	-	-	2, 4, 18, 24	A17
A18	3'-0" X 7'-0" X 1 3/4"	A	BIRCH VENEER SCWD, FLUSH	ST.	5 3/4"	HM.	PT.	-	-	-	18	A18
A19	3'-0" X 7'-0" X 1 3/4"	B	BIRCH VENEER SCWD, FLUSH W/ VIEW PANEL	ST.	5 3/4"	HM.	PT.	-	-	-	2, 4, 18	A19
A20	3'-0" X 7'-0" X 1 3/4"	A	BIRCH VENEER SCWD, FLUSH	ST.	5 3/4"	HM.	PT.	-	-	-	18, 24	A20
A21	PR 3'-0" X 7'-0" X 1 3/4"	A	HOLLOW METAL, FLUSH W/ VIEW PANEL	PT.	6 3/4"	HM.	PT.	-	Y, 2	1 HR.	12, 14, 20	A21
A22	3'-0" X 7'-0" X 1 3/4"	A	HOLLOW METAL, FLUSH	PT.	8"	HM.	PT.	-	-	-	12, 18	A22
A23	10'-0" X 10'-0"	D	24 GA. SECTIONAL STEEL OVERHEAD DOOR	P.F.	-	-	-	9, 10/A-3.3	-	-	6, 8, 13, 23	A23
A24	3'-0" X 7'-0" X 1 3/4"	A	HOLLOW METAL, FLUSH	PT.	9"	HM.	PT.	-	Y	-	1, 5, 6, 7, 13, 21	A24
A25	PR 3'-0" X 7'-0" X 1 3/4"	A	HOLLOW METAL, FLUSH	PT.	9"	HM.	PT.	-	Y	-	1, 5, 6, 7, 13, 21	A25
A26	3'-0" X 7'-0" X 1 3/4"	A	BIRCH VENEER SCWD, FLUSH	ST.	5 3/4"	HM.	PT.	-	-	-	-	A26
A27	3'-0" X 7'-0" X 1 3/4"	A	BIRCH VENEER SCWD, FLUSH	ST.	5 3/4"	HM.	PT.	-	-	-	-	A27
A28	3'-0" X 7'-0" X 1 3/4"	A	BIRCH VENEER SCWD, FLUSH	ST.	5 3/4"	HM.	PT.	-	-	-	-	A28
A29	3'-0" X 7'-0" X 1 3/4"	A	BIRCH VENEER SCWD, FLUSH	ST.	5 3/4"	HM.	PT.	-	-	-	-	A29
B1	PR 3'-0" X 7'-0" X 1 3/4"	E	HOLLOW METAL, FLUSH W/ VIEW PANELS	PT.	6 3/4"	HM.	PT.	-	Y, 2	-	2, 4, 12, 14, 20	B1
B2	PR 3'-0" X 7'-0" X 1 3/4"	E	HOLLOW METAL, FLUSH W/ VIEW PANELS	PT.	8"	HM.	PT.	-	Y, 2	-	2, 4, 12, 20, 22	B2
B3	PR 3'-0" X 7'-0" X 1 3/4"	E	HOLLOW METAL, FLUSH W/ VIEW PANELS	PT.	8"	HM.	PT.	-	Y, 2	-	2, 4, 12, 20, 22	B3
B4	PR 3'-0" X 7'-0" X 1 3/4"	A	HOLLOW METAL, FLUSH	PT.	8"	HM.	PT.	-	-	-	24	B4
B8	PR 3'-0" X 7'-0" X 1 3/4"	A	HOLLOW METAL, FLUSH	PT.	8"	HM.	PT.	-	-	-	24	B8
B6	3'-0" X 7'-0" X 1 3/4"	A	BIRCH VENEER SCWD, FLUSH	ST.	6 3/4"	HM.	PT.	-	-	-	-	B6
B7	3'-0" X 7'-0" X 1 3/4"	A	BIRCH VENEER SCWD, FLUSH	ST.	5 3/4"	HM.	PT.	-	-	-	-	B7
B8	PR 3'-0" X 7'-0" X 1 3/4"	C	ALUMINUM STOREFRONT DOORS	P.F.	4"	AL.	P.F.	-	Y	-	3, 5, 6, 7, 13, 14, 16, 17, 21, 22	B8
								-	-	-		
C1	3'-0" X 7'-0" X 1 3/4"	A	BIRCH VENEER SCWD, FLUSH	ST.	5 3/4"	HM.	PT.	-	-	-	15, 18	C1
C2	3'-0" X 7'-0" X 1 3/4"	A	BIRCH VENEER SCWD, FLUSH	ST.	5 3/4"	HM.	PT.	-	-	-	15, 18	C2
					-	-	-		-	-		
D1	3'-0" X 7'-0" X 1 3/4"	A	HOLLOW METAL, FLUSH	PT.	5 3/4"	HM.	PT.	-	Y	-	1, 5, 6, 7, 12, 21, 22	D1
								-		-		

ABBREVIATIONS

HM. = HOLLOW METAL (KNOCK-DOWN FRAME)
PT. = PAINT
ST. = (FIELD) STAIN
AL. OR ALUM. = ALUMINUM
P.F. = PRE-FINISHED
SCWD = SOLID CORE WOOD

REMARKS:

1. BALL BEARING HINGES, NON-REMOVABLE PINS
2. (1) VIEW PANEL
3. TEMPERED GLASS W/ BRONZE TINT
4. TEMPERED CLEAR GLASS
5. THRESHOLD
6. WEATHERSTRIPPING
7. LATCH GUARD
8. MANUAL OPERATION
9. ELECTRIC OPERATION
10. CHAIN HOIST
11. FUSIBLE LINK, EA. SIDE
12. UNINSULATED
13. INSULATED
14. 4" HEAD
15. PRIVACY LOCK
16. PIVOT HINGES
17. PUSH/PULL HARDWARE
18. WALL STOP
19. FLOOR STOP
20. KICK PLATES
21. SWEEP
22. PANIC HARDWARE
23. SLIDE BOLT LOCK
24. UNDERCUT DOOR 3/4"

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GENERAL DOOR NOTES:

A. HARDWARE SCHEDULE SHALL BE SUPPLIED BY THE VENDOR & APPROVED BY THE OWNER. VENDOR SHALL ALSO SUPPLY CUT SHEETS, MAINTENANCE AND ADJUSTMENT MANUAL FOR ALL HARDWARE SUPPLIED. VENDOR SHALL ALSO GIVE OWNER AN ANALYSIS OF THE KEYING OF THIS PROJECT.

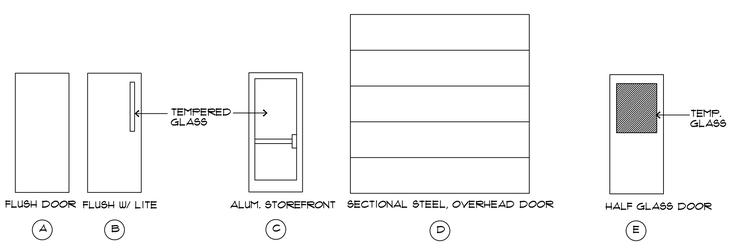
B. DOOR HARDWARE SHALL BE LEVER TYPE OR PUSH PULL TYPE.

C. SEE GENERAL NOTES & SPECIFICATIONS FOR OTHER INFORMATION.

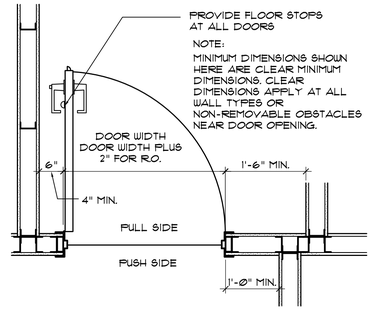
D. THRESHOLDS SHALL BE NO HIGHER THAN 1/2" ABOVE FIN. FLR. EDGE TO BE BEVELED WITH A SLOPE NO GREATER THAN 1 IN 2, IF HIGHER THAN 1/4" ABOVE FIN. FLR.

E. JAMB WIDTHS AT METAL FRAMES ARE BASED ON 1/2" RETURNS, DOOR SUPPLIER MAY ADJUST TO NEXT PRACTICAL THROAT SIZE.

F. U VALUES FOR OVERHEAD DOOR = 1.17, PERSONNEL DOORS = .51, GLASS DOORS = 1.04 (S.H.G.F. = .65 MAX.).



1 DOOR ELEVATIONS
N.T.S.



2 TYPICAL DOOR LAYOUT U.N.O.
1 1/2" = 1'-0"
08050aaa

ALPHA BLDG SET 08-27-2024

STATE OF GEORGIA
E. MIKE SHIRLEY
CERTIFICATE NO. 21113
REGISTERED ARCHITECT

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phase one, for construction

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Client:
SUNBELT BUILDERS
10841 HWY 9 ROSWELL GA 30076 770 587 8046

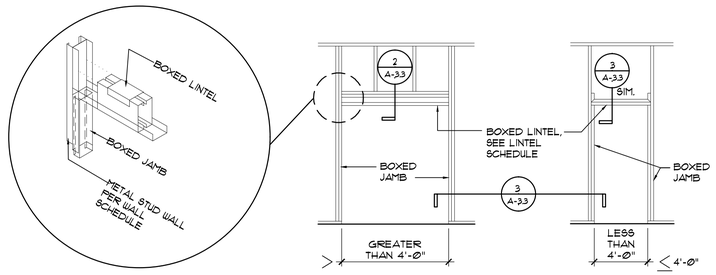
Project:
R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Issue Date:	Initial:	Drwg. Revision Description:
07/11/24	E.M.S.	1. DRWG. COORD. W/ CONTR.
08/12/24	E.M.S.	2. CITY COMMENTS

Project No.: 2023012
Drwg. Date: 04/15/24
Drwg. Revision: 08/12/24
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012 A-3.2

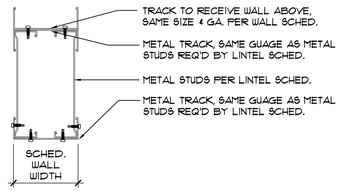
Sheet Title:
DOOR SCHED. & DETAILS

Sheet No.:
A-3.2



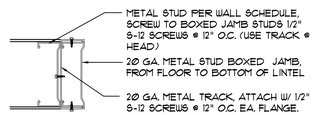
1 METAL STUD WALL OPENING DETAIL

NOT TO SCALE Ø911Ø aab



2 LINTEL DETAIL

NOT TO SCALE Ø911Ø aab

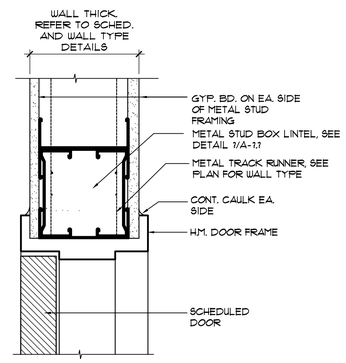


3 BOX JAMB

NOT TO SCALE Ø911Ø aab

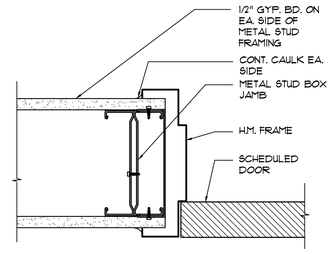
METAL STUD BOXED LINTEL SCHEDULE	
SPAN OPENING	STUD SIZE
UP TO 4'-0"	3625125-18*
> 4'-0" TO 6'-0"	6005125-30
> 6'-0" TO 8'-0"	6005125-43

* USE A MINIMUM OF 3625125-30 @ EXTERIOR LOCATIONS



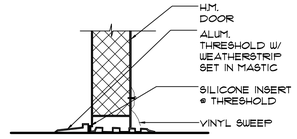
4 HOLLOW METAL DOOR HEAD DETAIL

3" = 1'-Ø" Ø811Ø aat



5 HOLLOW METAL DOOR JAMB DETAIL

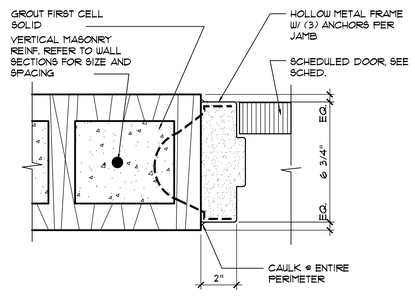
3" = 1'-Ø" Ø811Ø aat



8 TYP. DOOR SILL

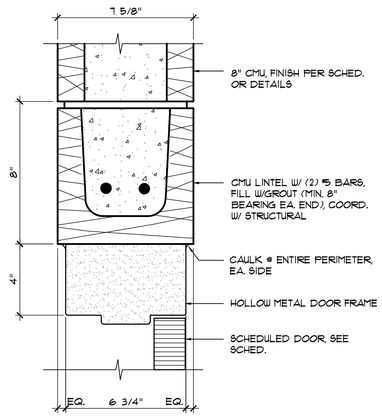
1 1/2" = 1'-Ø" Ø811Ø tha

ALPHA BLDG SET 08-27-2024



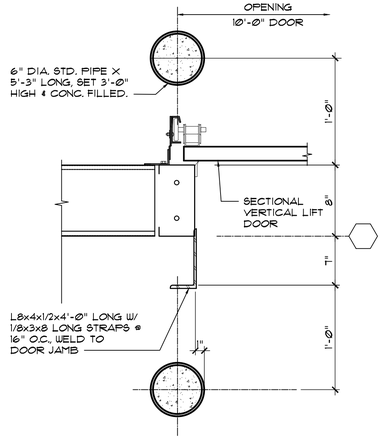
7 HOLLOW METAL DOOR JAMB AT MASONRY

3" = 1'-Ø" Ø811Ø aar



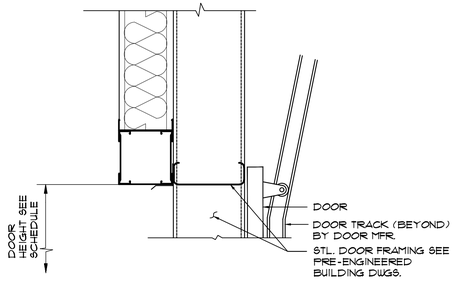
8 HOLLOW METAL DOOR HEAD AT MASONRY

3" = 1'-Ø" Ø811Ø aar



9 DRIVE-IN DOOR JAMB

1 1/2" = 1'-0" Ø837Ø aaa



10 DRIVE-IN DOOR HEAD

1 1/2" = 1'-Ø" Ø837Ø aab

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phase one, for construction

STATE OF GEORGIA — E. MICHAEL SHOPLEY — 24181 — REGISTERED ARCHITECT — 8/27/2024

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Project:
R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Issue Date:	Initial:	Drwg. Revision Description:

Project No.: 2023012
Drwg. Date: 04/15/24
Drwg. Revision:
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012 A-3.3

Sheet Title: *DOOR DETAILS*

Sheet No.: A-3.3

INTERIOR WINDOW SCHEDULE

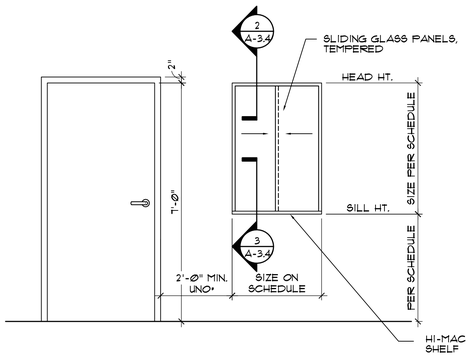
MARK	SIZE (W x H)	FRAME		GLASS		SILL HT. A.F.F.	HEAD HT. A.F.F.	REMARKS
		MATERIAL	FINISH	THICKNESS	FINISH			
A	3'-Ø" X 4'-Ø"	ALUM.	P. F.	1/4"	CLEAR	3'-Ø"	7'-Ø"	SEE 1, 2, 3/A-3.4
B	3'-4" X 4'-Ø"	ALUM.	P. F.	1/4"	CLEAR	3'-Ø"	7'-Ø"	SEE 4, 5, 6/A-3.4

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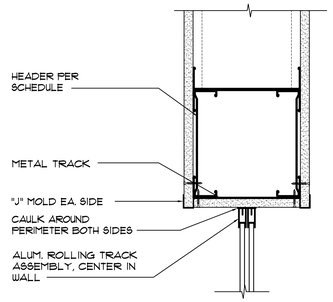
REMARKS:

GENERAL WINDOW NOTES:

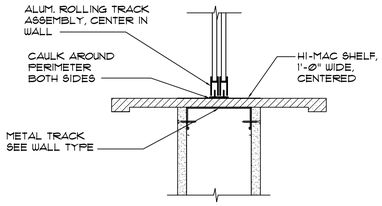
1. ADVISE CONSULTANT OF ANY CONFLICTS PRIOR TO INSTALLATION.
2. ALL MATERIALS ARE FURNISHED AND INSTALLED BY CONTRACTOR, UNLESS NOTED OTHERWISE.
3. PROVIDE TEMPERED GLASS @ STOREFRONT DOORS & @ WINDOWS WITHIN 2'-Ø" OF A DOOR.
4. SEE REMAINDER OF DRAWINGS FOR DETAILS RELATED TO EXTERIOR STOREFRONT AND/OR WINDOWS.



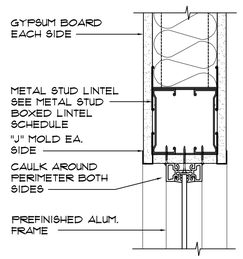
1 SLIDER WINDOW DETAIL
1/2" = 1'-Ø" 08580aaa
TYPICAL ALUM. SASH WINDOW RELATIONSHIP W/ DOOR



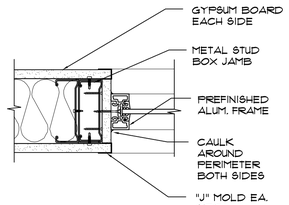
2 ALUM. WINDOW HEAD @ COUNTER
3" = 1'-Ø" 08580aac



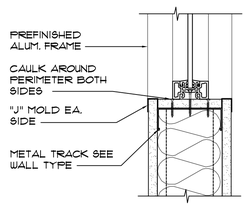
3 ALUM. WINDOW SILL @ COUNTER
3" = 1'-Ø" 08580aac



4 ALUM. WINDOW HEAD
3" = 1'-0" 08520aac



5 ALUM. WINDOW JAMB
3" = 1'-0" 08520aac



6 ALUM. WINDOW SILL
3" = 1'-0" 08520aac

ALPHA BLDG SET 08-27-2024

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phase one, for construction

STATE OF GEORGIA
E. MIKE SHULER
CERTIFICATE NO. 27118
REGISTERED ARCHITECT

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Architecture
2118 Rosser Place Stone Mountain, GA. 30087
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Email: mikes@betadesigngroup.com

Client:
SUNBELT BUILDERS™
1064 HWY 8 COVINGTON GA 30014 770 788 0101 770 788 0468

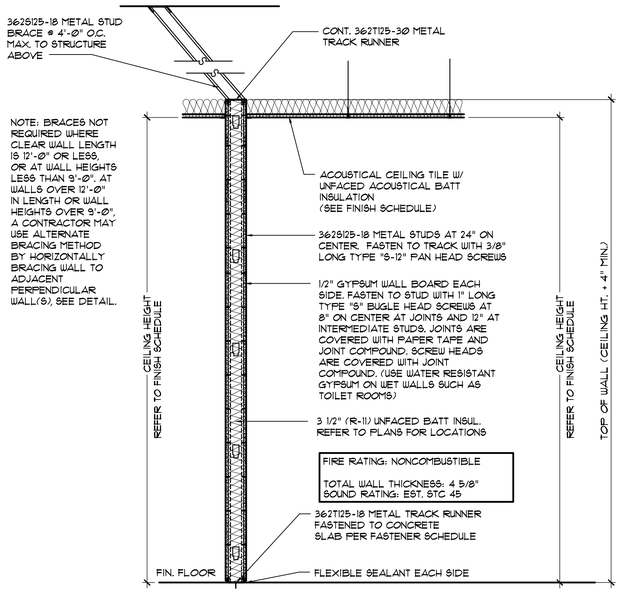
Project:
R. L. COUSINS COMMUNITY
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Issue Date:	Initial	Drwg. Revision	Description:

Project No.: 2023012
Drwg. Date: 04/22/24
Drwg. Revision:
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012 A-3.4

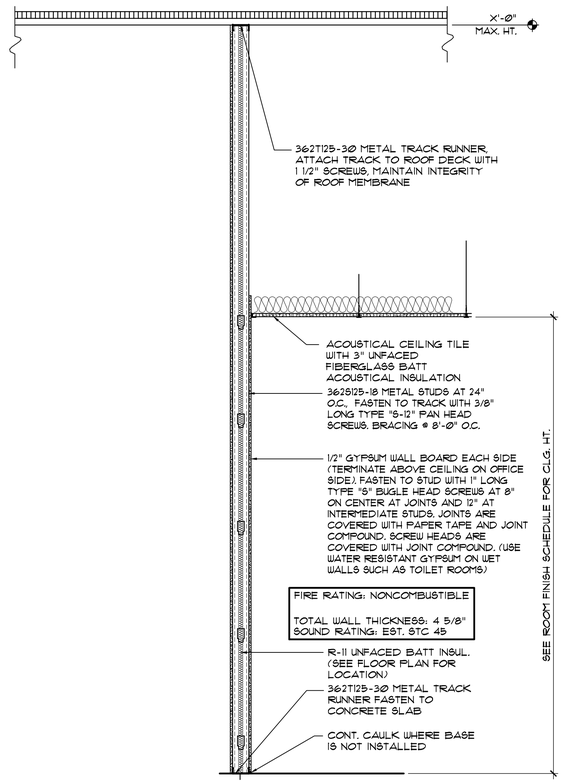
Sheet Title:
WINDOW SCHED. & DETAILS

Sheet No.:
A-3.4



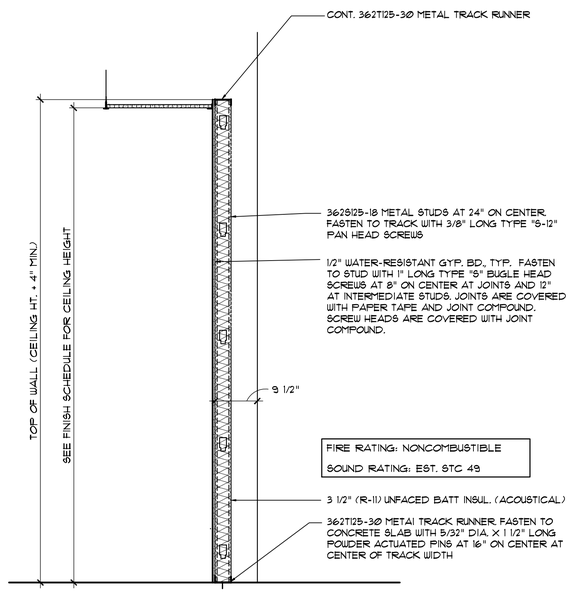
W1 3 5/8" NONCOMBUSTIBLE AND NONLOAD-BEARING PARTITION

3/4" = 1'-0" 09250wsa



W2 3 5/8" NONCOMBUSTIBLE AND NONLOAD-BEARING PARTITION

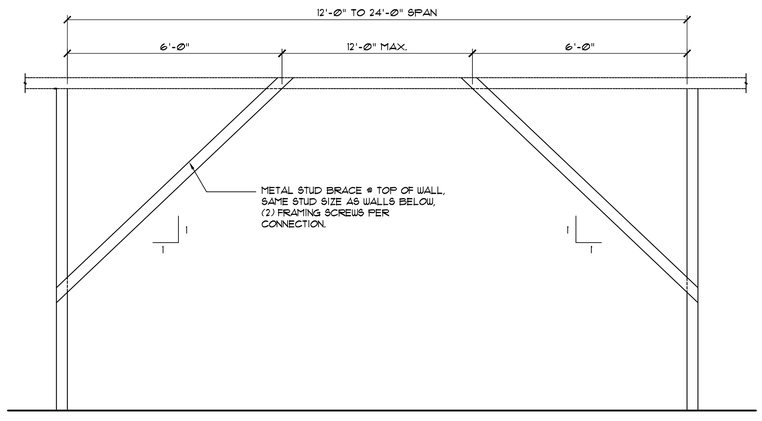
3/4" = 1'-0" 09250-wsp



W3 PLUMBING PARTITION

3/4" = 1'-0" 09250wsk

ALPHA BLDG SET 08-27-2024



1 WALL BRACING DETAIL

1/2"= 1'-0" 09110bra

NOTE:
BRACING NOT REQUIRED FOR WALLS NOT OVER 9'-0" HIGH OR LESS THAN 12'-0" IN HORIZONTAL CLEAR SPAN.
CORNER BRACING REQ'D FOR WALLS OVER 9'-0" HIGH SPANNING OVER 12'-0" TO 24'-0"

phase one, for construction

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STATE OF GEORGIA E. MICHAEL SHIRLEY 24681 CERTIFICATE NO. REGISTERED ARCHITECT

Client:
SUNBELT BUILDERS
10841 HWY 9 GWINNTON GA 0014 1 770 788 0 1 770 788 046

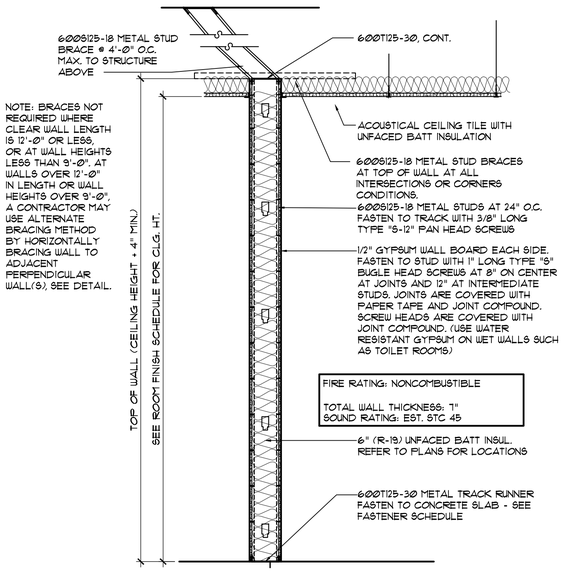
Project:
R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Issue Date:	Initial:	Drwg. Revision Description:

Project No.: 2023012
Drwg. Date: 04/01/24
Drwg. Revision:
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012 A-4.1.1

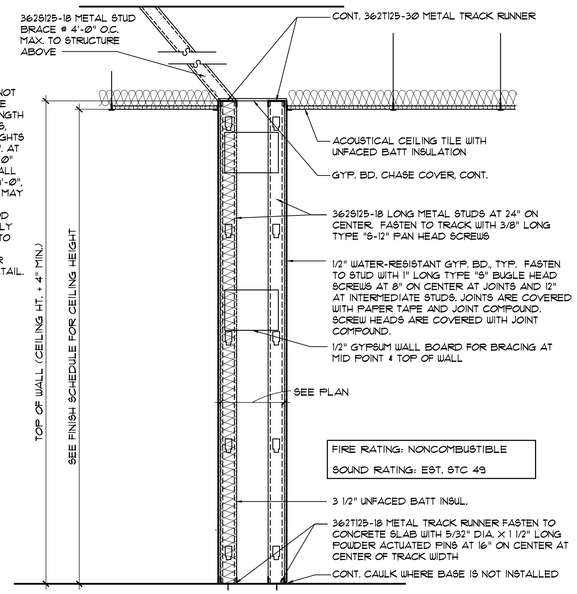
Sheet Title: WALL TYPE DETAILS

Sheet No.: A-4.1.1



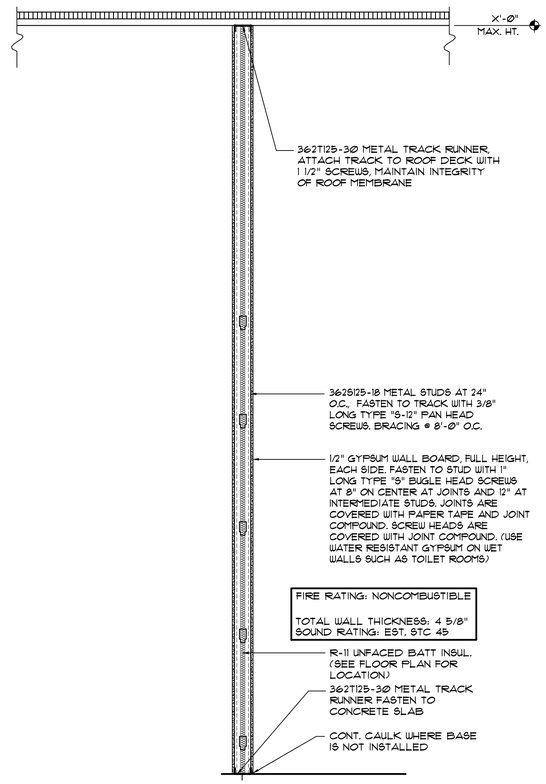
6" NONCOMBUSTIBLE AND NONLOAD-BEARING PARTITION

W4 — 3/4" = 1'-0" — 09250wsc



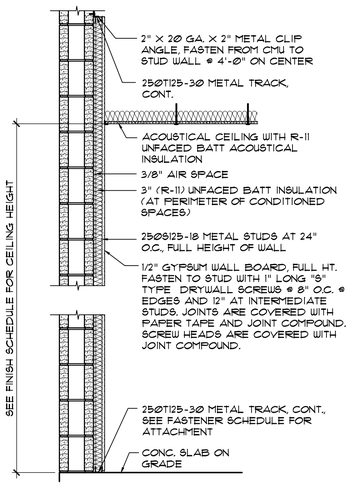
PLUMBING PARTITION

W5 — 3/4" = 1'-0" — 09250wsk



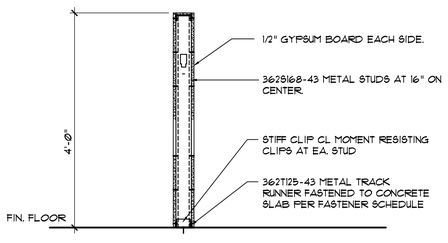
3 5/8" NONCOMBUSTIBLE AND NONLOAD-BEARING PARTITION

W6 — 3/4" = 1'-0" — 09250-wsp



FURRING @ CMU WALL

W7 — 3/4" = 1'-0" — 09250wsm



LOW WALL

W8 — 3/4" = 1'-0" — 09250ws1

ALPHA BLDG SET 08-27-2024

STATE OF GEORGIA — E. M. SHELTON — 24621 — REGISTERED ARCHITECT — CERTIFICATE NO.

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Client: SUNBELT BUILDERS 10841 HWY 9 COWINGTON GA 30014 • 770 788 0 1 770 788 046

Project: R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

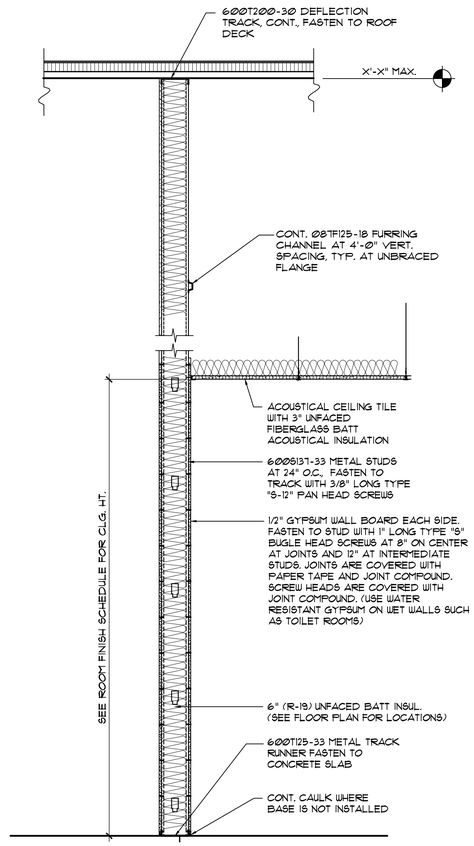
Issue Date:	Initial:	Drwg. Revision Description:

Project No.: 2023012
Drwg. Date: 04/01/24
Drwg. Revision:
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012 A-4.1.2

Sheet Title: *WALL TYPE DETAILS*

Sheet No.: A-4.1.2

phase one, for construction



6" NONCOMBUSTIBLE AND NONLOAD-BEARING PARTITION

W9

3/4" = 1'-0"

09250W60

ALPHA BLDG SET 08-27-2024

phase one, for construction

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STATE OF GEORGIA — E. MIKE SHIRLEY — CERTIFICATE NO. PP 000027 — REGISTERED ARCHITECT

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SUNBELT BUILDERS™
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Project:
R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

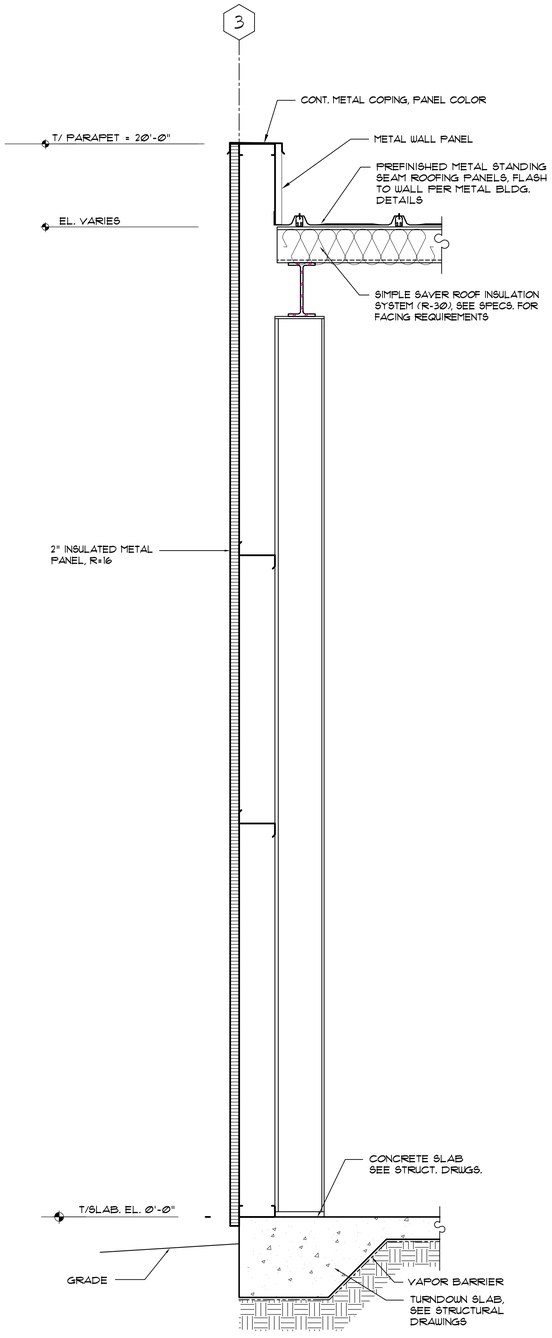
Issue Date:	Initial:	Drwg. Revision Description:

Project No.: 2023012
Drwg. Date: 04/01/24
Drwg. Revision:
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012 A-4.1.3

Sheet Title:
WALL TYPE DETAILS

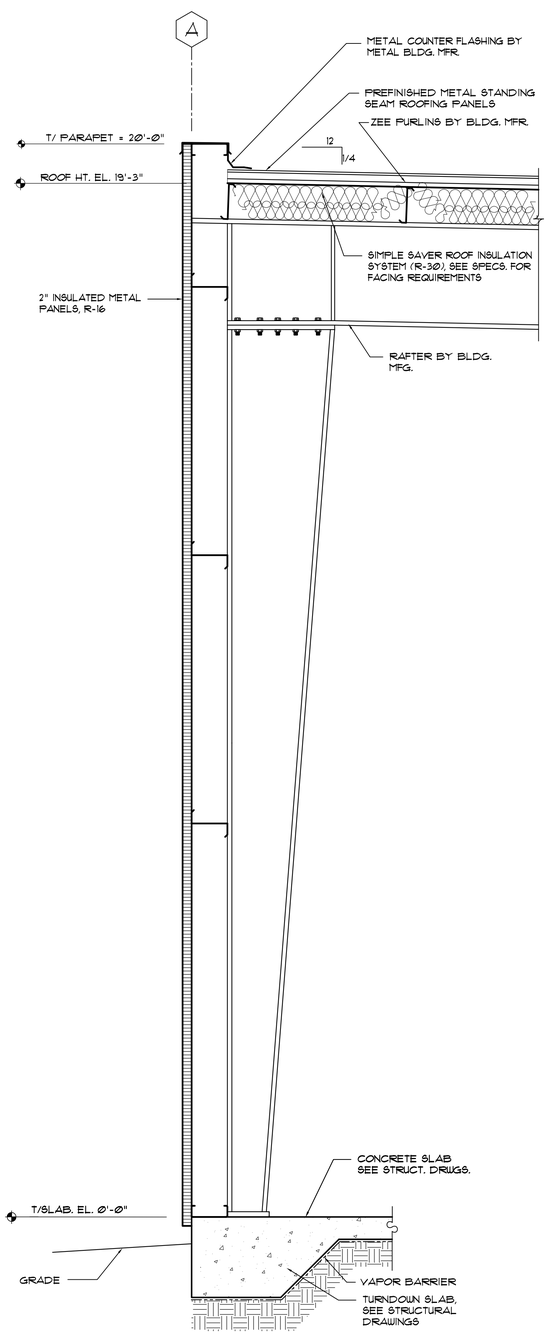
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ALPHA BLDG SET 08-27-2024



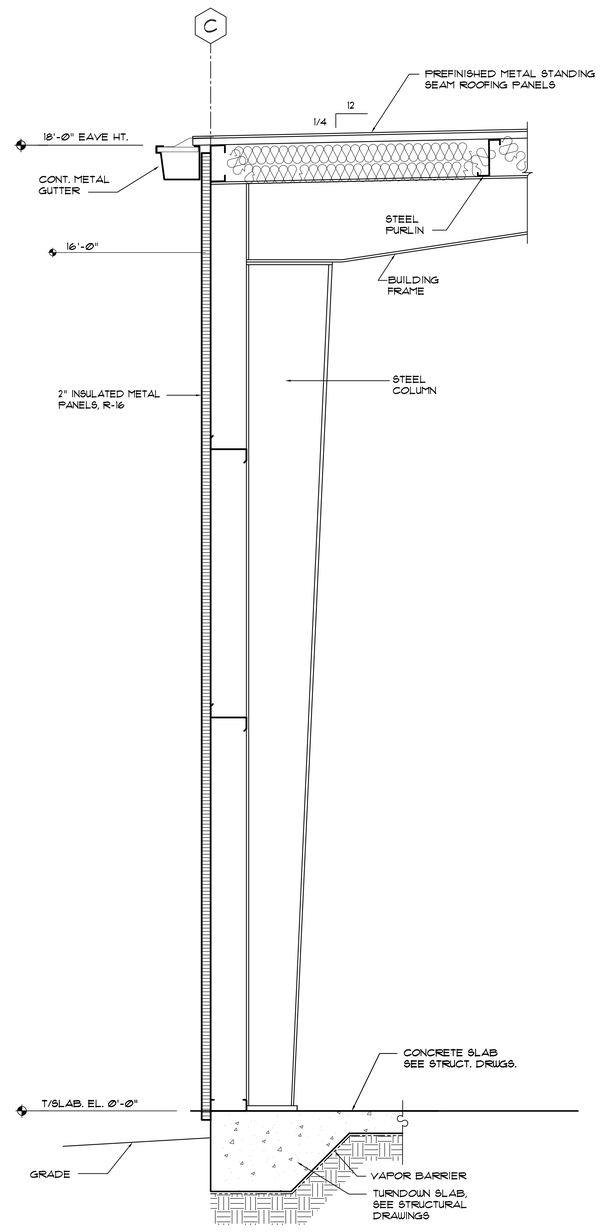
1 WALL SECTION

3/4" = 1'-Ø"



2 WALL SECTION

3/4" = 1'-Ø" 13120swd



3 WALL SECTION

3/4" = 1'-Ø" 13120swd

phase one, for construction

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STATE OF GEORGIA — E. MIKE SCHULZ — REGISTERED ARCHITECT — CERTIFICATE NO. 17178 — REGISTERED ARCHITECT

Client:

SUNBELT BUILDERS™
10841 HWY 9 ROSWELL GA 30076 | 770 518 0177 | 770 518 0146

Project:
R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Issue Date:	Initial:	Drwg. Revision Description:

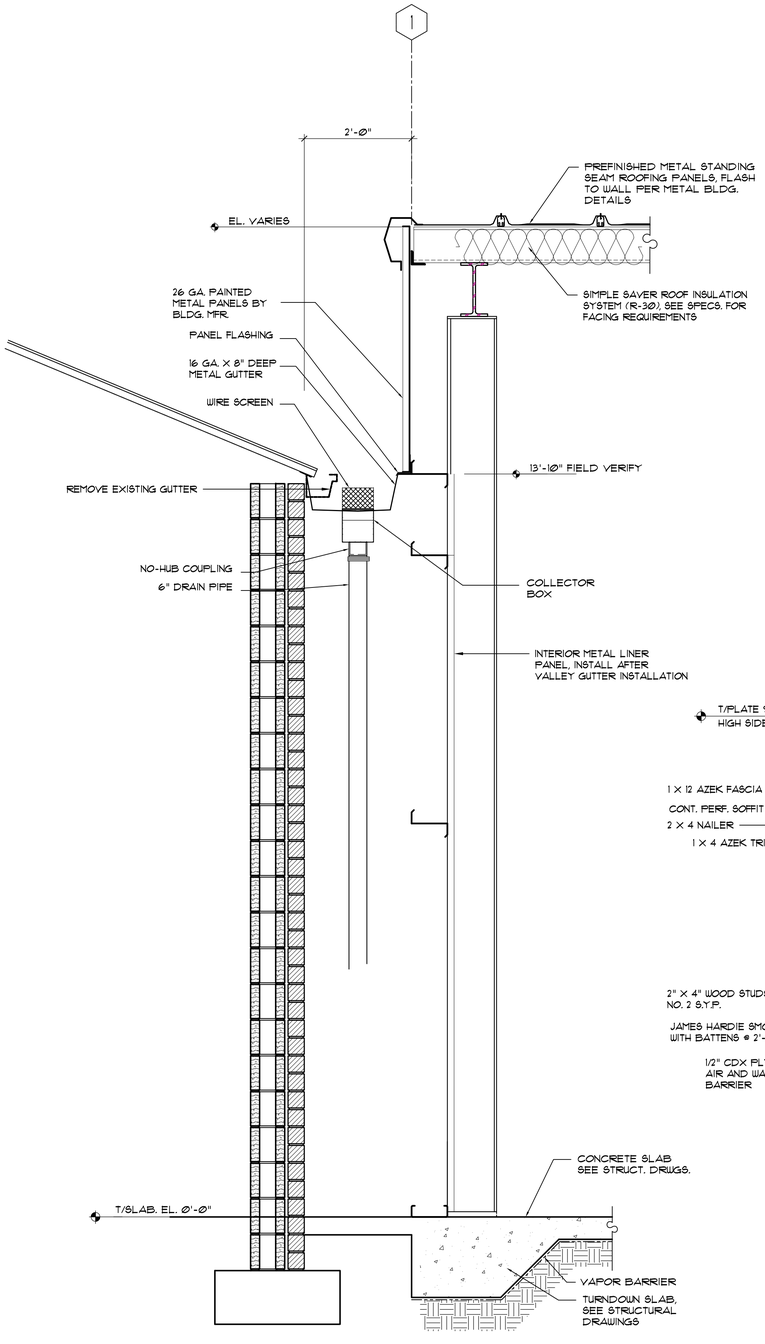
Project No.: 2023012
Drwg. Date: 04/16/24
Drwg. Revision:
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012 A-4.2

Sheet Title:
WALL SECTIONS

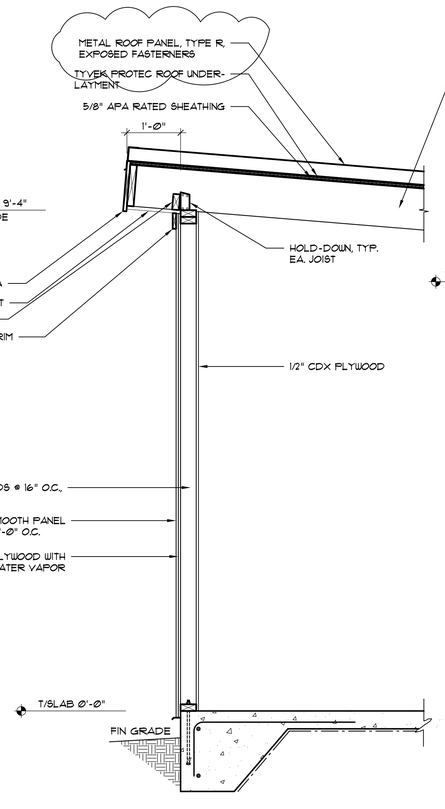
Sheet No.:
A-4.2

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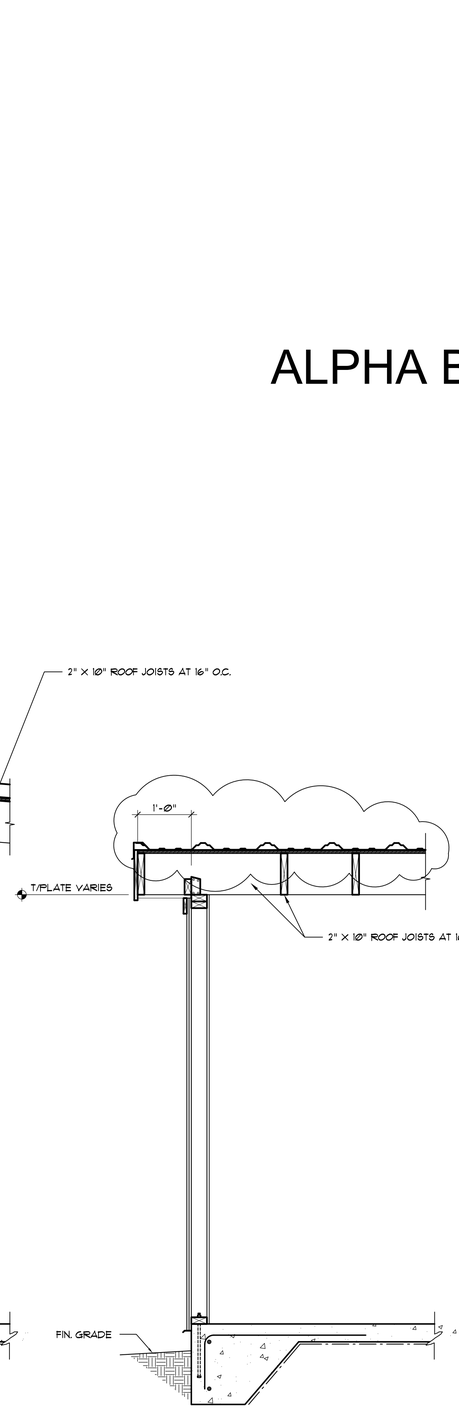
ALPHA BLDG SET 08-27-2024



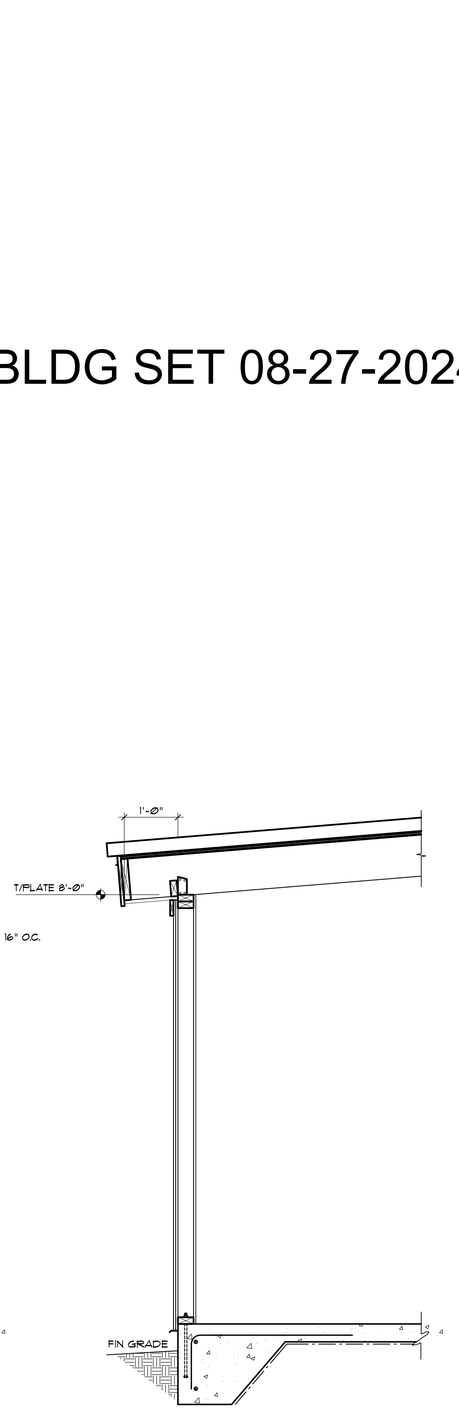
1 WALL SECTION
3/4" = 1'-Ø"



2 WALL SECTION
3/4" = 1'-Ø"



3 WALL SECTION
3/4" = 1'-Ø"



4 WALL SECTION
3/4" = 1'-Ø"

phase one, for construction

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STATE OF GEORGIA
E. MICHAEL SHADLEY
CERTIFICATE NO. PE018777
REGISTERED ARCHITECT

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SUNBELT BUILDERS™
10541 HWY 9 ALPHARETTA GA 30014 | 770.751.0101 | 770.751.0046

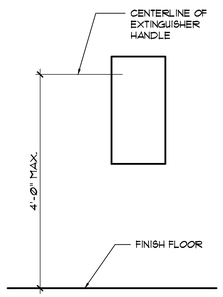
Project:
R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Issue Date:	Initial:	Drwg. Revision Description:
07/11/24	E.M.S.	1. DRWG. COORD. W/ CONTR.

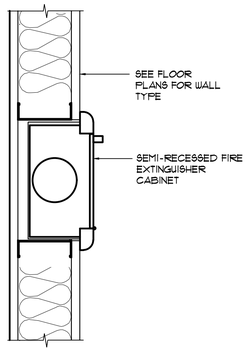
Project No.: 2023012
Drwg. Date: 04/22/24
Drwg. Revision: 07/11/24
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012 A-4.3

Sheet Title:
WALL SECTIONS

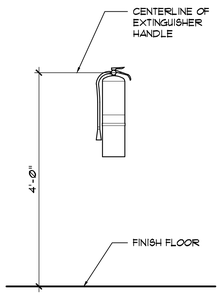
Sheet No.:
A-4.3



ELEVATION



PLAN



1 FIRE EXTNG. MOUNTING HEIGHT

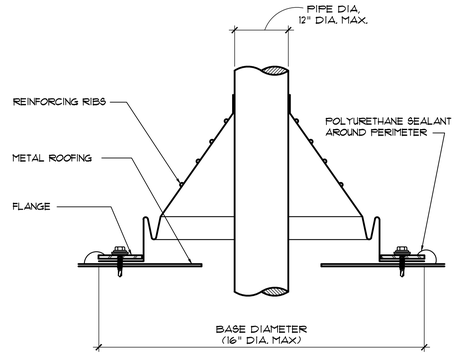
1 1/2" = 1'-0" 1052@aab

PENETRATIONS UP TO 12" DIAMETER. FOR SIZES LARGER THAN 12", USE ROOF CURB. DO NOT USE AT HEATED PIPES OR VENTS. USE BELOW 250 DEGREES F. USE SILICONE DEKTITE AT TEMPERATURES UP TO 390 DEGREES F.

PRODUCT NAME: DEKTITE PIPE FLASHING DISTRIBUTED BY BUILDEX N.A. MATERIAL: EPDM WITH ALUMINUM BONDED BASE RING. PENETRATION THROUGH THE FLAT AREA OF THE ROOF PANEL IS RECOMMENDED. DO NOT LOCATE ROOF PENETRATION SUCH THAT PANEL RIBS WILL BE PENETRATED.

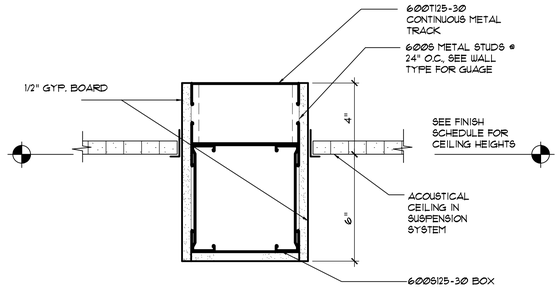
INSTALLATION PROCEDURES:

1. PAINT ALL METAL (CAST IRON, COPPER, GALVANIZED, ETC.)PIPE WITH CORROSION RESISTANT PAINT. ALLOW TO DRY PRIOR TO PLACING PIPE FLASHING.
2. DEKTITE PIPE FLASHING TO BE INSTALLED IN FLAT OF ROOF PANEL ONLY. OFFSET PIPE TO ACCOMMODATE FLAT OF PANEL.
3. CUT HOLE IN PANEL 2" LARGER THAN PIPE DIAMETER TO ALLOW 1" MOVEMENT UPSLOPE AND 1" MOVEMENT DOWNSLOPE.
4. CLEAN SURFACE WITH MINERAL SPIRITS OR NAPHTHA SOLVENT IF OILY.
5. CUT PLIABLE DEKTITE SLEEVE. HOLE SHOULD BE 1/2 INCH TO 2 INCHES SMALLER THAN DIAMETER OF PIPE TO BE FLASHED.
6. SLIDE DEKTITE FLASHING DOWN OVER THE PIPE. WATER MAY BE USED TO LUBRICATE. DO NOT PRESS FLASHING TO THE DECK AT THIS TIME.
7. DO NOT USE BUTYL (TAPE OR CAULK) OR SILICONE WITH DEKTITE PIPE FLASHING. APPLY ONE-PART POLYURETHANE SEALANT ON UNDERSIDE OF THE FLASHING.
8. PRESS PIPE FLASHING BASE TO FLAT PART OF ROOF PANEL.
9. FASTEN FLASHING TO PANEL SURFACE WITH CLINCHING FASTENERS.



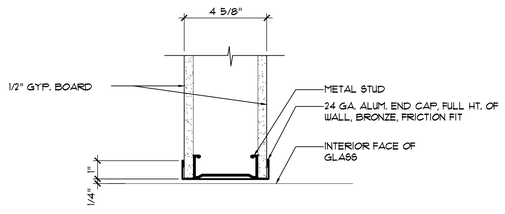
2 PIPE PEN. THRU METAL ROOF DECK

NOT TO SCALE 0772@aaa



3 HEADER DETAIL

3" = 1'-0" 0912@aab



4 WALL END CAP DETAIL

3" = 1'-0" 0925@aaa

ALPHA BLDG SET 08-27-2024

phase one, for construction

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STATE OF GEORGIA — E. MICHAEL SHOMLEY — 24081 — REGISTERED ARCHITECT

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Project:
R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Issue Date:	Initial:	Drwg. Revision Description:

Project No.: 202012
Drwg. Date: 04/15/24
Drwg. Revision:
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012 A-5.1

Sheet Title: CONSTRUCTION DETAILS

Sheet No.: A-5.1

STRUCTURAL NOTES

GENERAL NOTES:

1. THESE NOTES SHALL APPLY EXCEPT WHERE OTHERWISE INDICATED BY DRAWINGS OR SPECIFICATIONS.
2. CONTRACT DOCUMENTS INCLUDE THE STRUCTURAL DRAWINGS AND SPECIFICATIONS BUT DO NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS OR OTHER SUBMITTALS BY THE CONTRACTOR.
3. REFERENCE TO DESIGN STANDARDS AND BUILDING CODES SHALL MEAN THE LATEST EDITION OF THE REFERENCE UNLESS SPECIFICALLY STATED OTHERWISE.
4. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPENCIES PRIOR TO PROCEEDING WITH WORK. FOR DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL DRAWINGS.
5. ALL MATERIALS & WORKMANSHIP ARE SUBJECT TO THE REVIEW OF THE ARCHITECT & ENGINEER OF RECORD.
6. STRUCTURAL DRAWINGS INDICATE TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY. SHOP DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH SPECIFIED STANDARDS AND THE SPECIFIC REQUIREMENTS OF THIS PROJECT AS INDICATED ON THE DRAWINGS.
7. COORDINATE WITH OTHER DISCIPLINE DRAWINGS FOR DRIPS, CHAMFERS, REGLETS, RUSTICATIONS, SLOTS, SLEEVES, ANCHORS, AND INSERTS.
8. THE GENERAL CONTRACTOR SHALL COORDINATE ALL SIZES AND LOCATIONS OF ROOF PENETRATIONS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. PENETRATIONS GREATER THAN 12" ACROSS SHALL BE FRAMED AS SHOWN IN THE ROOF OPENING FRAMING DETAIL.
9. UNLESS SHOWN ON STRUCTURAL DRAWINGS, NO OPENINGS LARGER THAN 12" x 12" SHALL BE PLACED IN SLABS OR WALLS. FOR OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS, APPROVAL MUST BE OBTAINED FROM THE ARCHITECT PRIOR TO CONSTRUCTION OF OPENING.
10. THE CONTRACTOR HAS SOLE RESPONSIBILITY FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.
11. THE GENERAL CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH REQUIRED OSHA REGULATIONS.
12. THE STRUCTURE DESCRIBED BY THESE DRAWINGS IS SELF-SUPPORTING ONLY IN ITS COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF TEMPORARY BRACING AND SHORING OF ALL WORK.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORTING AND MAINTAINING THE EXCAVATIONS REQUIRED FOR THE CONSTRUCTION SHOWN.
14. THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE BUILDING OFFICIAL REGARDING SUBMITTAL OF INSPECTION REPORTS TO THE BUILDING DEPARTMENT.
15. DO NOT HANG OR ATTACH DUCTWORK, PIPING, LIGHTING, CONDUIT, EQUIPMENT, CEILINGS, ETC. FROM METAL DECKING.
16. REVIEW OF SUBMITTALS AND SHOP DRAWINGS BY THE ARCHITECT AND STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK ALL SUBMITTALS AND SHOP DRAWINGS BEFORE SUBMITTING TO THE STRUCTURAL ENGINEER. CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS.
17. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR THE DESIGN OF STEEL STAIRS, HANDRAILS, CURTAIN OR WINDOW WALL SYSTEMS, COLD-FORMED METAL FRAMING, OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DOCUMENTS. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.
18. CONSTRUCTION ADMINISTRATION AND SITE VISITS DURING CONSTRUCTION ARE NOT CURRENTLY INCLUDED IN OCONEE ENGINEERING'S SCOPE OF WORK FOR THIS PROJECT.

BUILDING DESIGN CRITERIA:

1. THESE STRUCTURAL DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE (IBC) W/ GEORGIA STATE AMENDMENTS.
2. LIVE LOADS:
   - 2.A. ROOF LOAD (L_R) = 20 PSF (REDUCED PER IBC 1607.11.2)
   - 2.B. FLOOR LOAD (L_O) = N/A
3. DEAD LOADS:
   - 3.A. ROOF LOAD (D) = 20 PSF
   - 3.B. FLOOR LOAD (D) = N/A
4. SNOW LOADS:
   - GROUND SNOW LOAD (P_g) = 5.0 PSF
5. SEISMIC DESIGN CRITERIA:
   - 5.A. RISK CATEGORY = II
   - 5.B. SEISMIC IMPORTANCE FACTOR (I_E) = 1.00
   - 5.C. S_S = 0.2216 S_1 = 0.0837
   - 5.D. SITE CLASS = D
   - 5.E. S_{DS} = 0.236 S_{D1} = 0.134
   - 5.F. BASIC SEISMIC-FORCE-RESISTING SYSTEM (PER ASCE 7-16 TABLE 12.2-1 OR 12.14-1):
     - 5.F.1. STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
       - 5.F.1.a. RESPONSE MODIFICATION FACTOR (R) = 3.0
       - 5.F.1.b. SEISMIC RESPONSE COEFFICIENT (Cs) = 0.0788
       - 5.F.1.c. SEISMIC DESIGN CATEGORY = C
   - 5.G. DESIGN BASE SHEAR = 33.8 K "Y" DIRECTION (PERP. TO LONG AXIS)

= 27.1 K "X" DIRECTION (PERP TO SHORT AXIS)

   - 5.H ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE
6. WIND LOADS:
   - BASIC WIND SPEED (V, 3 SEC GUST) = 110 MPH
   - OCCUPANCY CATEGORY = II
   - UPWIND EXPOSURE CATEGORY = B
   - INTERNAL PRESSURE COEFF. (GC_{Pi}) = ±0.18
   - A = 6 FT.
   - COMPONENTS & CLADDING DESIGN PRESSURES (P_{GROSS} PER ASCE 7-16) (LOADS ARE UNREDUCED & UNFACTORED)
   - ROOF COMPONENTS & CLADDING DESIGN PRESSURES: (BASED ON 100 SF AREA)
   - ROOF: SEE ROOF UPLIFT DIAGRAM FOR UPLIFT LOADS
   - MAX DOWNWARD LOAD = 10 PSF
   - WALL COMPONENTS & CLADDING DESIGN PRESSURES: (BASED ON 20 SF AREA)
   - ZONE 4 = +20.4 PSF, -22.3 PSF ZONE 5 = +20.4 PSF, -26.7 PSF
7. PRE-ENGINEERED TRUSS DESIGN LOADS:
   - TOP CHORD:
     - DEAD LOAD = 10 PSF + TRUSS WEIGHT
     - LIVE LOAD = 20 PSF
   - BOT CHORD:
     - DEAD LOAD = 5 PSF + TRUSS WEIGHT
     - LIVE LOAD = 10 PSF (60 PSF @ MECHANICAL ACCESS LOCATIONS)
     - MECH LOAD = 200# CONCENTRATED LOAD @ ANY LOCATION ALONG BOT CHORD

FOUNDATION NOTES:

1. DESIGN SOIL BEARING PRESSURE = 2500 PSF. SOIL BEARING PRESSURE SHALL BE VERIFIED AT TIME OF EXCAVATION AND STRUCTURAL ENGINEER SHALL BE NOTIFIED IF THE ACTUAL SOIL BEARING PRESSURE IS LOWER THAN THE DESIGN SOIL PRESSURE.
2. ALL FOOTINGS SHALL BEAR ON ORIGINAL UNDISTURBED SOIL OR STRUCTURAL FILL AND HAVE A MINIMUM 12" OF COVER.
3. PRIOR TO POURING CONCRETE, ALL DEBRIS, WATER, AND LOOSE EARTH SHALL BE REMOVED FROM THE FOUNDATION BED.
4. COLUMN FOOTINGS AND WALL FOOTINGS SHALL BE POURED MONOLITHIC WITH ADJACENT FOOTINGS AT THE SAME ELEVATION.
5. GEOTECHNICAL ENGINEER SHALL VERIFY CONDITION AND/OR ADEQUACY OF ALL SUBGRADES, FILLS, AND BACKFILLS PRIOR TO PLACEMENT OF FOUNDATIONS, FOOTINGS, SLABS, WALLS, FILLS, BACKFILLS, ETC.
6. PLACEMENT AND COMPACTION OF STRUCTURAL FILL SHALL BE MONITORED BY THE GEOTECHNICAL ENGINEER. COMPACTION SHALL BE 95% OF STANDARD PROCTOR.
7. STEP FOOTINGS DOWN BELOW MECHANICAL, ELECTRICAL, OR PLUMBING LINES AS REQUIRED TO AVOID INTERFERENCE. SEE TYP FOOTING STEP DETAIL. COORDINATE W/ OTHER TRADES. PROVIDE PIPE SLEEVE TWO PIPE SIZES GREATER THAN THE PIPE PASSING THROUGH THE WALL. WHERE LINES PASS UNDER A FOOTING, PROVIDE RELIEVING ARCH FOR PROTECTION.
8. CONDUITS AND PIPES EMBEDDED IN SLABS SHALL NOT BE LARGER IN OUTSIDE DIMENSION THAN ⅓ THE OVERALL THICKNESS OF THE SLAB, THEY SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS OR WIDTHS ON CENTER, AND A MIN SLAB THICKNESS OF 3" MUST BE MAINTAINED OVER EMBEDDED ITEMS.
9. ALL DRAIN TILE SHALL BE 4" DIAMETER (MIN) PERFORATED PLASTIC PIPE WITH FABRIC SOCK AND 12" MINIMUM WASHED RIVER ROCK SURROUND. DO NOT USE CRUSHED OR FINE GRAVEL.
10. WHERE ANY UTILITY LINES PASS UNDER A FOOTING, PROVIDE A PRE-CAST CONCRETE RELIEVING ARCH, A MINIMUM OF THREE TIMES THE DIAMETER OF THE UTILITY PIPE FOR PROTECTION.

CONCRETE NOTES:

1. PREPARE DESIGN MIXTURES FOR EACH TYPE AND STRENGTH OF CONCRETE, PROPORTIONED ON THE BASIS OF LABORATORY TRIAL MIXTURE OR FIELD TEST DATA, OR BOTH, ACCORDING TO ACI 301.
2. MINIMUM CONCRETE COMPRESSIVE STRENGTH @ 28 DAYS:
   3000 PSI NORMAL WEIGHT CONCRETE (AS INDICATED ON DRAWINGS) WITH MAXIMUM WATER - CEMENTITIOUS MATERIALS RATIO OF 0.50 FOR 3000 PSI MIX. PROVIDE A MAXIMUM SLUMP OF 2" TO 4" BEFORE ADDING HIGH RANGE, WATER REDUCING ADMIXTURE OR PLASTICIZING ADMIXTURE.
3. FOR EXTERIOR CONCRETE, PROVIDE AIR ENTRAINMENT OF 5 ½% ± 1½% AT POINT OF DELIVERY FOR CONCRETE WITH 1 ½" NOMINAL MAXIMUM AGGREGATE SIZE. EXCEPTION: DO NOT ALLOW AIR CONTENT IN TROWELED, FINISHED FLOORS TO EXCEED 3%.
4. STRUCTURAL MEMBERS OF REINFORCED CONCRETE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 318-11.
5. SLAB ON GRADE CONTROL OR CONSTRUCTION JOINTS SHALL BE LOCATED AS INDICATED ON DRAWINGS SUCH THAT NO JOINT SPACING SHALL EXCEED 12'-0" O.C. FOR 4" SLABS & 15'-0" O.C. FOR 6" SLABS.THE LENGTH OF ANY PANEL SHALL NOT EXCEED TWO TIMES THE WIDTH OF THAT PANEL. JOINTS SHALL BE SAWED WITH POWER SAWS EQUIPPED WITH SHATTERPROOF ABRASIVE OR DIAMOND RIMMED BLADES. CUT JOINTS ⅛" WIDE TO ¼ OF THE SLAB DEPTH. JOINTS SHALL BE CUT AS SOON AS SAWING OPERATIONS WILL NOT TEAR, ABRADE, OR OTHERWISE DAMAGE THE SLAB SURFACE.
6. FLOOR SLAB CONSTRUCTION JOINTS MAY BE DOWELED OR FORMED WITH METAL KEYWAYS. ALL SLAB REINFORCING SHALL EXTEND THROUGH CONSTRUCTION JOINTS. SEE DETAILS.
7. EXTERIOR SLABS SHALL DRAIN FREELY AWAY FROM THE BUILDING. COORDINATE ELEVATIONS WITH CIVIL ENGINEER AND ARCHITECT.
8. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SLAB FINISHES, SLOPES, AND DEPRESSIONS OF INTERIOR SLABS.
9. UNO, CHAMFER ALL EXPOSED CORNERS ¾".
10. VERTICAL, FULL HEIGHT , WEAKENED PLANE CONTRACTION JOINTS SHALL BE LOCATED AT 25'-0" MAXIMUM SPACING IN POURED CONCRETE WALLS. ALTERNATE LONGITUDINAL (HORIZONTAL) REINFORCING BARS SHALL BE STOPPED (JOINTED) AT CONTRACTION JOINTS. PROVIDE 1" WIDE, VERTICAL EXPANSION JOINTS AT 100'-0" MAXIMUM SPACING.
11. FULL HEIGHT CONSTRUCTION JOINTS BETWEEN SUCCESSIVE POURS SHALL BE KEYED (METAL KEYKOLD OR SIMILAR) IN POURED CONCRETE WALLS. A CONSTRUCTION JOINT MAY BE SUBSTITUTED FOR ANY CONTRACTION JOINT. EXTEND ALL HORIZONTAL REINFORCING THROUGH CONSTRUCTION JOINT UNLESS NOTED OTHERWISE.
12. ALL CONCRETE WALLS EXPOSED TO VIEW SHALL HAVE A SMOOTH FORMED FINISH. REPAIR AND PATCH TIE HOLES AND DEFECTS AND REMOVE FINS AND OTHER PROJECTIONS. WORKMANSHIP IS SUBJECT TO THE APPROVAL OF THE ARCHITECT OF RECORD. CONTRACTOR SHALL, AT NO COST TO THE OWNER, REMOVE AND REPLACE CONCRETE THAT CANNOT BE REPAIRED AND PATCHED TO ARCHITECT'S APPROVAL.
13. CONTRACTOR SHALL TO CONFORM TO ACI HOT OR COLD WEATHER PLACEMENT PROCEDURES IF APPLICABLE DUE TO TEMPERATURES AT TIME OF POUR.
14. SEE ARCHITECTURAL DRAWINGS FOR SLAB FINISHES AND CURING COMPOUNDS.
15. CONCRETE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318-11. SAMPLES FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 50 CY OF CONCRETE USED FOR FOOTINGS, NOR LESS THAN ONCE FOR EACH 5000 SQUARE FEET OF SURFACE AREA FOR SLABS. TEST REPORTS INDICATING (NON)COMPLIANCE SHALL BE PROVIDED TO THE OWNER, ENGINEER & CONTRACTOR. A COPY OF THE TEST REPORTS SHALL BE AVAILABLE AT THE JOBSITE. 4 INCH DIAMETER x 8 INCH TEST CYLINDERS ARE ACCEPTABLE.

REINFORCING STEEL NOTES:

1. SHALL BE DETAILED, FABRICATED AND PLACED ACCORDING TO THE LATEST STANDARDS OF THE AMERICAN CONCRETE INSTITUTE (ACI) AND THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).
2. MATERIALS:
   - 2.A. REINFORCING BARS SHALL COMPLY WITH ASTM A615 GRADE 60.
   - 2.B. WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A82 AND A185.
   - 2.C. REINFORCING BARS FOR WELDING SHALL COMPLY WITH ASTM A-706.
3. CLEAR MINIMUM COVER OF CONCRETE OVER REINFORCING BARS SHALL BE AS INDICATED ON THE DRAWINGS BUT SHALL NOT BE LESS THAN THE FOLLOWING:
   - 3.A. CONCRETE PLACED AGAINST EXPOSED EARTH (NOT FORMED) 3"
   - 3.B. FORMED SURFACES EXPOSED TO EARTH, LIQUIDS, OR WEATHER:
     - 3.B.1. SLABS & JOISTS W/ #5 BARS & SMALLER 1½"
     - 3.B.2. SLABS & JOISTS W/ #6 BARS & LARGER 2"
     - 3.B.3. BEAMS, PIERS, COLUMNS, WALLS, FOOTINGS, & BASE SLABS 2"
   - 3.C. FORMED SURFACES NOT EXPOSED TO EARTH, LIQUIDS, OR WEATHER:
     - 3.C.1. SLABS & JOISTS ¾"
     - 3.C.2. BEAMS, PIERS, & COLUMNS 1½"
     - 3.C.3. WALLS ¾"
     - 3.C.4. FOOTINGS & BASE SLABS 2"
4. ALL BARS DENOTED CONTINUOUS ON PLANS, SECTIONS AND DETAILS SHALL HAVE CLASS "B" TENSION SPLICE LAPS AND CORNER BARS AND HOOKS AT DISCONTINUOUS ENDS. SPLICED BARS SHALL BE SECURELY WIRED TOGETHER. SPLICES OF ADJACENT REINFORCING BARS SHALL BE STAGGERED 24" MIN WHEREVER POSSIBLE.
5. WELDED WIRE FABRIC, WHERE REQUIRED, SHALL BE PLACED IN THE CENTER OF THE SLAB UNLESS NOTED OTHERWISE. LAP JOINTS ONE WIRE SPACING PLUS 2" OR A MINIMUM OF 6". EXTEND FABRIC TO WITHIN 1" OF EDGES OF SLABS ON GRADE.
6. PROVIDE ADEQUATE BOLSTERS, HIGH CHAIRS, SUPPORT BARS, ETC. TO MAINTAIN SPECIFIED CLEARANCES FOR THE ENTIRE LENGTH OF ALL REINFORCING BARS AND WELDED WIRE FABRIC.
7. ALL CONCRETE WALLS TO BE DETAILED IN ELEVATION ON SHOP DRAWINGS. NO MORE THAN 50% OF HORIZONTAL WALL REINFORCING SHALL LAP IN A SINGLE VERTICAL PLANE.
8. REBAR FOR WELDED CONNECTIONS MUST MEET ASTM A706 WHICH ARE SPECIALLY FORMULATED TO BE WELDABLE. STANDARD ASTM A615 GRADE 60 REBARS ARE NOT ACCEPTABLE FOR WELDING. WELDING PROCEDURE SHALL CONFORM TO ANSI/AWS D1.4 "STRUCTURAL WELDING CODE - REINFORCING STEEL". DO NOT TACK WELD.
9. PROVIDE TWO #4 DIAGONAL BARS x 3'-0" LONG IN THE TOP FACE OF ALL SLABS AT ALL REENTRANT CORNERS, AT THE FLANGES OF PROJECTING POSTS & COLUMNS, AND AROUND FLOOR DRAINS. CENTER THE BARS ON THE CORNERS OR PROJECTIONS ABOVE THE SLABS.
10. INTERSECTING WALLS, IF POURED SEPARATELY, SHALL BE KEYED AND DOWELED TOGETHER W/ BARS OF THE SAME SIZE & SPACING AS HORIZ WALL REINFORCING.
11. TIE ALL REINFORCING & EMBEDMENTS SECURELY IN PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN THE POSITION OF REINFORCEMENT WITHIN SPECIFIED TOLERANCES DURING ALL CONSTRUCTION ACTIVITIES. "STICKING" DOWELS INTO WET CONCRETE IS NOT PERMITTED.

CONC REINF LAP LENGTH
3000 PSI (ACI 318-11)

BAR SIZE	TENSION SPLICE
	CLASS 'B'
#3	22"
#4	29"
#5	36"
#6	43"
#7	63"
#8	72"

ALPHA BLDG SET 08-27-2024

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R.L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, COVINGTION, GA
FOR: SUNBELT BUILDERS

MARK	DATE	BY	DESCRIPTION
	5-6-2024		ISSUE FOR PRICING
	6-20-2024		ISSUE FOR PRICING
	8-27-2024		ISSUE FOR PERMIT

DESIGNED:
DRAWN:
CHECKED:
APPROVED:

OE PROJECT NO. OE24007
FILE NAME: OE24007-S-CORE
ORIGINAL DRAWING SIZE: 36"x24"
DATE: 4-22-2024

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STRUCTURAL SPECIFICATIONS

S-0.1
SHEET 1 OF 11

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STRUCTURAL NOTES (CONT.)

STRUCTURAL STEEL NOTES:

1. MATERIALS:
   - 1.A. STRUCTURAL W-SHAPES: ASTM A992, Fy = 50 KSI
   - 1.B. STRUCTURAL TUBING: ASTM A500, GRADE B, Fy = 46 KSI
   - 1.C. STRUCTURAL PIPE: ASTM A53, GRADE B, Fy = 35 KSI
   - 1.D. OTHER SHAPES & PLATES: ASTM A36, Fy = 36 KSI
   - 1.E. CONNECTION BOLTS: ASTM A325, UNO
   - 1.F. ANCHOR RODS: ASTM F1554, A307, OR A36, Fy = 36 KSI (2 NUTS & WASHERS W/ EACH)
   - 1.G. WELDING ELECTRODES: E70-XX, UNO.
2. STRUCTURAL STEEL DETAILING, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MANUAL OF STEEL CONSTRUCTION" OF THE AISC.
3. BOLTED CONNECTIONS SHALL BE MADE USING ¾" DIAMETER BOLTS AND WASHERS CONFORMING TO ASTM A325 UNLESS OTHERWISE NOTED. THEY SHALL BE INSTALLED AND INSPECTED IN CONFORMANCE WITH THE "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". BOLTS SHALL BE TIGHTENED TO THE SNUG TIGHT CONDITION UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL HOLES TO BE DRILLED OR PUNCHED; FLAME CUT HOLES ARE NOT PERMITTED.
4. SHOP OR FIELD SPLICES BETWEEN SUPPORTS THAT ARE NOT REQUIRED BY DESIGN WILL NOT BE ALLOWED. ANY MEMBERS CONTAINING SUCH SPLICES SHALL BE REMOVED AND REPLACED WITH UNSPLICED MEMBERS AT THE FABRICATOR'S EXPENSE.
5. PROVIDE BOLTS AND PUNCH HOLES IN STRUCTURAL AND MISCELLANEOUS STEEL FOR ATTACHMENTS OR WOOD NAILERS AS REQUIRED ON THE ARCHITECTURAL, MECHANICAL AND STRUCTURAL DRAWINGS.
6. MINIMUM SIZE OF WELD IS ⅜" UNLESS NOTED OTHERWISE. ALL WELDING SHALL CONFORM TO THE LATEST "STRUCTURAL WELDING CODE" BY THE AMERICAN WELDING SOCIETY. ALL WORK SHALL BE PERFORMED BY CERTIFIED WELDERS EXPERIENCED IN THE TYPE OF CONSTRUCTION INVOLVED. PROOF OF WELDER CERTIFICATION SHALL BE AVAILABLE AT THE JOB SITE.
7. SHOP DRAWINGS SHALL SHOW COMPLETE WELDING INFORMATION, BOTH SHOP AND FIELD, USING AMERICAN WELDING SOCIETY SYMBOLS UNLESS OTHERWISE INDICATED.
8. STEEL BEAMS SUPPORTED ON MASONRY OR CONCRETE WALLS SHALL HAVE A MIN OF 8" BEARING ON STEEL PLATE WITH ANCHORS.
9. PROVIDE 1½" NON-SHRINK GROUT UNDER ALL BASEPLATES.
10. ALL STEEL SHALL HAVE A PRIME COAT OF PAINT EXCEPT STEEL NOTED TO BE GALVANIZED.
11. ALL PORTIONS OF STEEL ENCASED IN CONCRETE OR IN CONTACT WITH EARTH SHALL BE PAINTED WITH BITUMINOUS PAINT.
12. STEEL FABRICATOR TO BE AN AISC CERTIFIED FABRICATOR.
13. ALL PLAN DIMENSIONS ARE TO CENTERLINE OF STEEL MEMBERS EXCEPT FOR STEEL CHANNELS. CHANNEL DIMENSIONS ARE TO THE BACK FACE OF THE WEB.

STEEL JOIST & GIRDER NOTES:

1. BAR JOISTS AND JOIST GIRDERS SHALL BE DESIGNED AND FABRICATED ACCORDING TO THE LATEST STANDARDS OF THE STEEL JOIST INSTITUTE. JOIST FABRICATOR SHALL BE A MEMBER OF THE STEEL JOIST INSTITUTE.
2. BAR JOISTS SHALL BE WELDED TO SUPPORTING BEAMS, JOIST GIRDERS OR WELD PLATES WITH 1" OF 3/16" WELD AT EACH SIDE OF BAR JOIST UNLESS NOTED OTHERWISE.
3. PROVIDE JOIST BRIDGING TO MEET THE REQUIREMENTS OF SJI. PROVIDE UPLIFT BRIDGING FOR THE NET UPLIFT SHOWN IN THE DESIGN LOADING NOTES.
4. BRIDGING TERMINATING AT MASONRY WALLS OR STEEL BEAMS SHALL BE ANCHORED TO WALL OR BEAM.
5. BAR JOISTS AT COLUMN LOCATIONS TO BE BOLTED TO SUPPORTING BEAM, JOIST GIRDER, OR COLUMN AT TIME OF ERECTION.
6. MINIMUM BEARING REQUIREMENTS:
   - 6.A. BAR JOISTS:
     - 6.A.1. 2½" ON STRUCTURAL STEEL
     - 6.A.2. 4" ON STEEL BEARING PLATES IN MASONRY OR CONCRETE
   - 6.B. JOIST GIRDERS:
     - 6.B.1. 4" ON STRUCTURAL STEEL
     - 6.B.2. 6" ON STEEL BEARING PLATES IN MASONRY OR CONCRETE
7. UNLESS SHOWN ON STRUCTURAL DRAWINGS, NO PROVISIONS HAVE BEEN MADE IN THE BAR JOIST DESIGN TO ACCOUNT FOR CONCENTRATED LOADS. CONCENTRATED LOADS IN EXCESS OF 200 POUNDS WILL REQUIRE JOIST REINFORCING PER THE DETAILS. ROOF MOUNTED HVAC UNITS SHALL BE SUPPORTED AS SHOWN IN THE ROOF OPENING FRAMING DETAIL.

METAL DECK NOTES:

1. MATERIALS:
   - 1.A. ROOF DECK: 1½" DEEP, TYPE "B" (WIDE RIB), 22 GAGE, PAINTED, SHEET WIDTH = 36"

   METAL DECK MANUFACTURER SHALL BE A MEMBER OF THE STEEL DECK INSTITUTE (SDI). ALL PRODUCTS SHALL BE FACTORY MUTUAL APPROVED.
2. STEEL DECK SHALL BE CONTINUOUS OVER A MINIMUM OF 3 SUPPORTS.
3. DECK ATTACHMENT PATTERN SHALL BE AS INDICATED ON DRAWINGS.
4. PROVIDE 1 1/2" MINIMUM DECK BEARING AT ALL SUPPORTS. DECK SHALL BE PLACED AT THE PERIMETER WITH A COMPLETE RIB BEARING ON THE STEEL SUPPORT.

MASONRY NOTES:

1. MATERIALS, TESTING AND STORAGE OF MATERIALS SHALL CONFORM TO ACI-530 "SPECIFICATION FOR CONCRETE MASONRY STRUCTURES".
2. HOLLOW LOAD BEARING MASONRY UNITS:
   - 2.A. SHALL CONFORM TO ASTM C90
   - 2.B. WEIGHT: LIGHTWEIGHT
   - 2.C. MINIMUM COMPRESSIVE STRENGTH f'm = 1500 PSI ON NET AREA
   - 2.D. MORTAR SHALL CONFORM TO ASTM C270 CEMENT-LIME, TYPE S.
   - 2.E. MASONRY UNITS AND MORTAR SHALL INCLUDE INTEGRAL WATERPROOFING AGENT "DRYBLOCK" BY W.R. GRACE OR APPROVED EQUAL.
3. GROUT:
   - 3.A. SHALL CONFORM TO ASTM C476
   - 3.B. MAXIMUM AGGREGATE SIZE OF ⅜"
   - 3.C. MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI
   - 3.D. MAXIMUM SLUMP OF 9 INCHES
   - 3.E. MAXIMUM GROUT LIFT = 5'-0".
4. MASONRY REINFORCING (TYP, UNO):
   - 4.A. WALLS SHALL HAVE VERT #5 BARS @ 48"OC MAX AT IN CENTER OF CMU, UNO.
   - 4.B. ADDITIONAL VERT REINFORCING (COORDINATE W/ DETAILS):
     - 4.B.1. EACH SIDE OF OPENINGS
     - 4.B.2. WALL INTERSECTIONS
     - 4.B.3. ENDS OF WALLS
     - 4.B.4. EACH SIDE OF CONTROL JOINTS
     - 4.B.5. AS NOTED AND DETAILED ON DRAWINGS
   - 4.C. PROVIDE MATCHING DOWEL FOR VERT REINFORCING INTO FOUNDATION AND BOND BEAM AT ROOF
   - 4.D. PROVIDE BOND BEAMS:
     - 4.D.1. BOTTOM AND TOP OF OPENINGS
     - 4.D.2. JOIST & DECK BEARING (CONTINUOUS)
     - 4.D.3. TOP COURSE OF MASONRY WALLS
     - 4.D.4. AS NOTED AND DETAILED ON DRAWINGS
   - 4.E. HORIZ JOINT REINFORCING:
     - 4.E.1. SHALL BE HOT DIPPED GALVANIZED 9 GAGE WIRE TRUSS OR LADDER TYPE
     - 4.E.2. SPACED AT 16" ON CENTER (UNO)
     - 4.E.3. MINIMUM STRAIGHT LAP = 16"
     - 4.E.4. MINIMUM CORNER OR TEE LAP = 30"
     - 4.E.5. SHALL BE FULLY EMBEDDED IN MORTAR WITH MINIMUM COVER 5/8" FROM FACE OF MORTAR
     - 4.E.6. DISCONTINUE HORIZ REINFORCING AT CONTROL JOINTS
5. MASONRY SHALL BE LAID IN RUNNING BOND UNLESS OTHERWISE NOTED.
6. ALL BARS DENOTED CONTINUOUS ON PLANS, SECTIONS AND DETAILS SHALL HAVE LAP SPLICES, CORNER BARS AND HOOKS AT DISCONTINUOUS ENDS. SEE MASONRY SPLICE LAP TABLE FOR MINIMUM MASONRY LAP SPLICE LENGTHS.
7. AT FIRST COURSE OF MASONRY, PROVIDE FULL MORTAR BED EQUAL TO WALL THICKNESS EXCEPT AT CELLS TO BE GROUTED SOLID.
8. UNITS TO RECEIVE VERT REINFORCING SHALL HAVE CELLS ALIGNED VERTICALLY FOR FULL HEIGHT OF REINFORCEMENT.
9. FILL ALL MASONRY CELLS BELOW FINISHED FLOOR WITH GROUT. WHERE FINISHED FLOOR IS BELOW GRADE, FILL ALL CELLS BELOW GRADE.
10. ALL ANCHOR BOLTS INTO MASONRY SHALL BE PLACED IN FULLY GROUTED CELLS. MIN EMBEDMENT = 4¼".
11. PIPES OR CONDUITS MAY PENETRATE HORIZONTALLY THROUGH MASONRY WALLS BY MEANS OF A SCHEDULE 40 GALVANIZED STEEL SLEEVE SOLIDLY GROUTED IN PLACE. SLEEVE SIZE SHALL BE TWO PIPE SIZES GREATER THAN THE PIPE PASSING THROUGH THE WALL. CENTER TO CENTER SLEEVE SPACING SHALL NOT BE LESS THAN 3 SLEEVE DIAMETERS.
12. AFTER MORTAR IS THOROUGHLY SET AND CURED, CLEAN MASONRY COMPLETELY USING THE LEAST HARSH METHOD POSSIBLE.
13. UNO, PROVIDE VERT CONTROL JOINTS MEETING THE FOLLOWING CRITERIA (REFER TO ARCH DRAWINGS FOR LOCATIONS):
   - 13.A. LOCATED 28'-0" OC MAX
   - 13.B. MAX 8'-0" FROM BUILDING CORNERS
   - 13.C. NO CLOSER THAN 2'-0" TO OPENING EDGES
   - 13.D. NO CLOSER THAN 1'-4" TO MAJOR BEAM OR JOIST BEARINGS

CMU REINF LAP LENGTH
Fy=60 KSI, f'm=1500 PSI

BAR SIZE	SPLICE LENGTH
#3	19"
#4	25"
#5	31"
#6	57"
#7	70"
#8	98"

METAL STUD FRAMING NOTES:

1. METAL STUD MANUFACTURER SHALL BE A MEMBER OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA).
2. METAL STUD STRENGTH CRITERIA:
   - 2.1. GAGES 25 THROUGH 18 - 33 ksi MIN YIELD STRESS
   - 2.2. GAGES 16 THROUGH 12 - 50 ksi MIN YIELD STRESS
   - 2.3. RUNNER TRACK - 33 ksi MIN. YIELD STRESS
3. METAL STUD MEMBER DESIGNATION: 600 S 137 - 33

   WEB DEPTH: 600 = 6"
   MEMBER TYPE: S = STUD, T =TRACK, U = CHANNEL, F = FURRING
   FLANGE WIDTH: 137 = 1.37" (1 3/8")
   MIN. THICKNESS IN MILS.

MILS	GA
18	25
27	22
33	20
43	18
54	16
68	14
97	12
118	10

4. METAL STUDS AND ACCESSORIES SHALL HAVE A G60 GALVANIZED COATING UNLESS NOTED OTHERWISE
5. FASTENERS:
   - 5.1. SCREW CONNECTIONS
     - 5.1.1. FASTENING STUD TO STUD - USE #10-16 TRAXX/3 x 5/8" LONG BY BUILDEX OR APPROVED EQUAL UNLESS OTHERWISE NOTED.
     - 5.1.2. FASTENING STUD TO MASONRY - USE ¼"ø TAPCON SCREWS BY ITW BUILDEX OR APPROVED EQUAL
       - 5.1.2.1. MIN EMBEDMENT = 1"
       - 5.1.2.2. MIN EDGE DISTANCE = 2"
       - 5.1.2.3. MIN SPACING BETWEEN FASTENERS = 3"
   - 5.2. POWDER DRIVEN FASTENERS (PDF):
     - 5.2.1. FASTENING TO CONCRETE or MASONRY - USE 0.145"ø DOME HEAD NAIL TYPE "X-ZF" BY HITLI OR APPROVED EQUAL OR UNLESS NOTED OTHERWISE.
       - 5.2.1.1. MIN EMBEDMENT = 1¼"
       - 5.2.1.2. MIN EDGE DISTANCE = 2"
       - 5.2.1.3. MIN SPACING BETWEEN FASTENERS = 3"
     - 5.2.2. FASTENING TO STEEL - USE 0.145"ø DOME HEAD KNURLED SHANK FASTENER TYPE "X-EDNI" BY HILTI OR APPROVED EQUAL UNLESS NOTED OTHERWISE.
       - 5.2.2.1. MIN EMBEDMENT = FULL PENETRATION
       - 5.2.2.2. MIN EDGE DISTANCE = ½"
       - 5.2.2.3. MIN SPACING BETWEEN FASTENERS = 1"
6. FASTENING - MINIMUM FASTENING REQUIREMENTS, UNLESS NOTED OTHERWISE
   - 6.1. TRACK TO CONCRETE - HILTI SDF PINS OR EQUAL AT 8" OC
   - 6.2. TRACK TO STRUCTURAL STEEL - HILTI ESD PINS OR EQUAL AT 12" OC
   - 6.3. TRACK TO STUD AND STUD TO STUD - BUILDEX #10-16 TRAXX OR EQUAL PER MANUFACTURER'S RECOMMENDATION. (3 SCREWS MINIMUM)
   - 6.4. STUD TO STEEL OR CONCRETE - USE POWDER DRIVEN FASTENERS REFERENCED ABOVE. SEE DETAILS FOR CONNECTIONS (MINIMUM 2 FASTENERS)
7. LOADBEARING WALLS
   - 7.1. STUDS SHALL BE FULLY SEATED IN THE BOTTOM TRACK WITH A MAXIMUM 3/16" GAP IN THE PRE-LOADED CONDITION.
   - 7.2. CONTRACTOR SHALL ALIGN VERTICAL STUDS IN LOADBEARING WALLS WITH THE FLOOR JOISTS ABOVE.
   - 7.3. LOADBEARING WALL STUDS SHALL BE BRACED BY ONE OF THE FOLLOWING METHODS:
     - 7.3.1. COLD ROLLED CHANNEL - RUN HORIZONTALLY THROUGH STUD PUNCHOUTS AND ATTACHED AT EACH STUD.
     - 7.3.2. 2" WIDE 18 GAGE STEEL STRAPS - RUN HORIZONTALLY, ON BOTH SIDES OF THE STUDS, AND ATTACHED AT EACH STUD.
   - 7.4. VERTICAL SPACING OF THE BRACING IS LIMITED TO A MAXIMUM OF 4'-0" THROUGHOUT THE HEIGHT OF THE WALL.
8. JOISTS SHALL BE FABRICATED TO PROVIDE 12" OF UNPUNCHED WEB AT BEARING ENDS.
9. PROVIDE JOIST WEB STIFFENERS PER METAL STUD MANUFACTURERS' RECOMMENDATIONS AT BEARING POINTS.
10. PROVIDE END BLOCKING WHERE JOISTS ARE NOT RESTRAINED AGAINST ROTATION.
11. CURTAINWALL and NON-LOADBEARING PARTITIONS
   - 11.1. MECHANICAL BRACING OF STUDS IS NOT NECESSARY WHERE WALL SHEATHING IS ATTACHED ON BOTH SIDES OF THE STUDS.
   - 11.2. WHEN ONLY ONE FACE OF THE STUDS RECEIVE SHEATHING, PROVIDE BRACING BY ONE OF THE FOLLOWING METHODS:
     - 11.2.1. COLD ROLLED CHANNEL - RUN HORIZONTALLY THROUGH STUD PUNCHOUTS AND ATTACHED AT EACH STUD
     - 11.2.2. 2" WIDE 18 GAGE STEEL STRAPS - RUN HORIZONTALLY, ON BOTH SIDES OF THE STUDS, AND ATTACHED AT EACH STUD.
   - 11.3. VERTICAL SPACING OF THE BRACING IS LIMITED TO A MAX OF 4'-0" FOR THE HEIGHT OF THE WALL.
12. PROVIDE ALL ACCESSORIES AS REQUIRED BY THE METAL STUD MANUFACTURER .

SHOP DRAWING NOTES:

1. CONTRACTOR SHALL FURNISH COMPLETE AND DETAILED SHOP DRAWINGS FOR THE FOLLOWING:
   - 1.A. STRUCTURAL STEEL
   - 1.B. MISCELLANEOUS METAL
   - 1.C. STEEL JOISTS, GIRDERS, AND METAL DECK
   - 1.D. CONCRETE MIX DESIGN
   - 1.E. LIGHT GAUGE METAL ROOF TRUSSES
   - 1.F. PRE-ENGINEERED AWNINGS / CANOPIES
2. SHOP DRAWINGS SHOULD BE TRANSMITTED ELECTRONICALLY. ENGINEER WILL REVIEW & RETURN SHOP DRAWINGS WITH COMMENTS WITHIN 10 WORKING DAYS FROM TIME OF RECEIPT.
3. UNLESS NOTED, SUBMIT SHOP DRAWINGS FOR ALL FABRICATED MATERIALS. DESIGN DRAWINGS SHALL NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS. SHOP DRAWINGS WILL NOT BE REVIEWED UNLESS THEY ARE STAMPED "APPROVED" BY THE GENERAL CONTRACTOR.
4. SHOP DRAWINGS FOR TRUSSES AND OTHER ITEMS DESIGNATED AS "DESIGNED BY OTHERS" OR "PRE-ENGINEERED" SHALL BE SEALED BY THE COMPONENT DESIGN ENGINEER OF RECORD PRIOR TO SUBMITTAL FOR REVIEW. ALL PRE-ENGINEERED TRUSS SHOP DRAWINGS SHALL BE AVAILABLE ON THE JOB SITE DURING THE TIMES OF INSPECTION AND SHALL BEAR CLEAR INDICATION THAT THEY HAVE BEEN REVIEWED AND APPROVED BY THE PROJECT STRUCTURAL ENGINEER OF RECORD.
5. THE CONTRACTOR SHALL HAVE AN APPROVED SET OF ALL SHOP DRAWINGS AND PROOF OF WELDER CERTIFICATION AT THE JOBSITE AT ALL TIMES.

PRESSURE TREATED LUMBER NOTE:

1. ALL FASTENERS USED WITH PRESSURE TREATED LUMBER SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL. ALL SIMPSON CONNECTORS USED WITH PRESSURE TREATED LUMBER SHALL BE "ZMAX" COATED AS A MINIMUM.

ABBREVIATIONS

A.B.	ANCHOR BOLT	MAS.	MASONRY
AFF	ABOVE FINISHED FLOOR	MAX	MAXIMUM
ARCH	ARCHITECT	MFR.	MANUFACTURER
B/	BOTTOM OF	MIN.	MINIMUM
BM.	BEAM	MISC.	MISCELLANEOUS
BOTT	BOTTOM	M.O.	MASONRY OPENING
BLKG.	BLOCKING	MTL.	METAL
BLDG.	BUILDING	N.A.	NOT APPLICABLE
CJ	CONTROL/CONSTRUCTION JOINT	N/A	NOT APPLICABLE
C.L.	CENTER LINE	N.I.C.	NOT IN CONTRACT
CLR	CLEAR	N.T.S.	NOT TO SCALE
CMU	CONCRETE MASONRY UNIT	O.C.	ON CENTER
COL	COLUMN	O.D.	OUTSIDE DIAMETER
CONC	CONCRETE	O.H.	OPPOSITE HAND
CONT	CONTINUOUS	OPNG	OPENING
CONST	CONSTRUCTION	OPP.	OPPOSITE
CONTR.	CONTRACTOR	PDF	POWER DRIVEN FASTENER
COORD	COORDINATE	PJF	PREMOLDED JOINT FILLER
CTR.	CENTER	PL	PLATE
DET.	DETAIL	PLYWD.	PLYWOOD
DIA	DIAMETER	PREFAB.	PREFABRICATED
DN	DOWN	P.T.	PRESSURE TREATED
DIM.	DIMENSION	PTD.	PAINTED
DWG.	DRAWING	RAD.	RADIUS
EA.	EACH	REINF	REINFORCING
E.J.	EXPANSION JOINT	REQ'D	REQUIRED
EL	ELEVATION	SECT.	SECTION
ELEV	ELEVATION	SHT.	SHEET
E.W.	EACH WAY	SIM.	SIMILAR
EXIST.	EXISTING	SPCS	SPACES
F.F.	FINISH FLOOR	SQ.	SQUARE
FIN. FLR.	FINISH FLOOR	STD.	STANDARD
FT.	FOOT	STL	STEEL
FTG	FOOTING	STRUC.	STRUCTURAL
F.V.	FIELD VERIFY	S.W.	SHORT WAY
GA.	GAUGE	T/	TOP OF
GALV.	GALVANIZED	THK.	THICK
G.C.	GENERAL CONTRACTOR	TYP	TYPICAL
GDR	GIRDER	U.N.O.	UNLESS NOTED OTHERWISE
HT.	HEIGHT	VERT.	VERTICAL
HORIZ	HORIZONTAL	WD	WOOD
JST	JOIST	WF	WIDE FLANGE
JT	JOINT	WWF	WELDED WIRE FABRIC
KB	KNEE BRACE	WWM	WELDED WIRE MESH
LG	LONG	W/	WITH
LLH	LONG LEG HORIZONTAL	W/O	WITHOUT
LLV	LONG LEG VERTICAL	WP	WORK POINT
LW	LONG WAY		

ALPHA BLDG SET 08-27-2024

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FOR: SUNBELT BUILDERS

MARK	DATE	BY	DESCRIPTION
	5-5-2024		ISSUE FOR PRICING
	4-22-2024		ISSUE FOR PRICING
	4-4-2024		ISSUE FOR PRICING

DESIGNED:
DRAWN:
CHECKED:
APPROVED:

OE PROJECT NO: OE24007
FILE NAME: OE24007-S-CORE
ORIGINAL DRAWING SIZE: 36"x24"
DATE: 4-22-2024

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STRUCTURAL SPECIFICATIONS

S-0.2
SHEET 2 OF 11

XREFS: I:\OCONEE\OE-SBS-OE-36x24.dwt, RL Cousins 20250123 basebuilder phase two 032824
PRINTED BY: RAchin PE/EIT/EL1 | DATE: Monday, May 6, 2024 1:36:15 PM | DRAWING FILE: C:\work\Oconee\oe24007\OE24007-S-CORE.dwg | LAST MODIFIED: Monday, May 6, 2024 9:43:37 PM

SCHEDULE OF SPECIAL INSPECTION SERVICES					
		APPLICABLE TO THIS PROJECT			
MATERIAL / ACTIVITY	SERVICE	Y/N	EXTENT	AGENT*	DATE COMPLETED
1704.2.5 Inspection of Fabricators					
Verify fabrication/quality control procedures. (May be waived by building official.)	In-plant review	Y	Periodic		
1705.2 Steel Construction					
Material verification of high-strength bolts, nuts, and washers.	Review material markings and certificates of compliance	Y	Periodic		
Inspection of high-strength bolting:	Field inspection				
a. Bearing-type connections		Y	Periodic		
b. Pre-tensioned or slip-critical					
1) Turn-of-nut with matching markings		Y	Periodic		
2) Direct tension indicator		Y	Periodic		
3) Twist-off bolt		Y	Periodic		
4) Turn-of-nut without matching markings		Y	Continuous		
5) Calibrated wrench		Y	Continuous		
Material verification of structural steel:					
a. Identification markings	Field inspection	Y	Periodic		
b. Certified mill tests	Review submittals	Y	Each submittal		
Weld filler materials.	Review certificate of compliance and field verification	Y	Periodic and each submittal		
Structural steel welding:	Shop and field inspection				
a. Complete and partial penetration groove welds		Y	Continuous		
b. Multi-pass fillet welds		Y	Continuous		
c. Single-pass fillet welds > 5/16"		Y	Continuous		
d. Single-pass fillet welds < 5/16"		Y	Periodic		
e. Floor and deck welds		Y	Periodic		
Reinforcing steel welding:	Shop and field inspection				
a. Verification of weldability of steel other than ASTM A 706		Y	Periodic		
b. Reinforcing steel-resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special concrete shear walls, and shear reinforcement		N	Continuous		
c. Shear reinforcement		Y	Continuous		
d. Other reinforcing steel		Y	Periodic		
Inspection of steel frame joint details for compliance with approved construction documents.	Field inspection				
a. Details such as bracing & stiffening		Y	Periodic		
b. Member locations		Y	Periodic		
c. Application of joint details at each connection		Y	Periodic		
1705.3 Concrete Construction					
Inspection of reinforcing steel installation.	Field inspection	Y	Periodic.		
Inspection of prestressing steel installation.	In-plant or field review	N	Periodic		
Inspection of prestressed concrete:	In-plant or field review				
a. Application of prestressing force		N	Continuous		
b. Grouting of bonded prestressing tendons in the seismic-force-resisting system		N	Continuous		
Inspection of cast-in-place bolts prior to and during placement of concrete where allowable loads have been increased per IBC section 1908.4.	Field inspection	Y	Continuous		
Verification of required design mix.	Review submittals	Y	Periodic		
Fresh concrete sampling.	Field testing	Y	Continuous		
Inspection of concrete and shotcrete placement for proper application techniques	Field review	Y	Continuous		
Concrete curing operations.	Field review	Y	Periodic		
Erection of precast concrete members.	Field review	N	Periodic		
Evaluation of concrete strength.	Field testing and review of laboratory reports	Y	Periodic		
Verification of in-situ concrete strength, prior to stressing of tendons in post tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	Review field testing and laboratory reports	N	Periodic		
Inspection of formwork for shape, lines, location and dimensions	Field inspection	Y	Periodic		
1705.4 Masonry Construction					
Verify proportions of site prepared mortar, grout and prestressing grout for bonded tendons.	Field and submittal review	Y	Periodic		
Verify construction of mortar joints.	Field inspection	Y	Periodic		
Verify location of reinforcement and connectors, and placement of prestressing tendons and anchorages.	Field inspection	Y	Periodic		
Verify prestressing technique	Field inspection	N	Periodic		
Verify size and location of structural masonry elements.	Field and submittal review	Y	Periodic		

SCHEDULE OF SPECIAL INSPECTION SERVICES					
		APPLICABLE TO THIS PROJECT			
MATERIAL / ACTIVITY	SERVICE	Y/N	EXTENT	AGENT*	DATE COMPLETED
Verify type, size, and location of anchors, including details of anchorage of masonry to structural members, frames, or other construction.	Field inspection	Y	Level 1 - Periodic Level 2 - Continuous		
Verify size, grade, and type of reinforcement.	Field inspection	Y	Periodic		
Verify welding of reinforcing bars.	Field inspection	Y	Continuous		
Verify protection of masonry during hot/cold weather.	Field inspection	Y	Periodic		
Verify grout space is clean prior to grouting.	Field inspection	Y	Continuous		
Verify grout placement complies with code and construction document provisions.	Field inspection	Y	Continuous		
Observe preparation of grout specimens, mortar specimens, and/or prisms.	Field inspection	Y	Continuous		
Verify compliance with required testing provisions of construction documents and the approved submittals.	Field inspection	Y	Periodic		
Verify grade and size of prestressing tendons and anchorages.	Field inspection	N	Periodic		
Verify proper grouting of prestressing tendons.	Field inspection	N	Continuous		
Verify application and measurement of prestressing force	Field inspection	N	Continuous		
1705.6 Soils					
Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	Field inspection	Y	Periodic		
Verify excavations are extended to proper depth and have reached proper material.	Field inspection	Y	Periodic		
Perform classification and testing of controlled fill materials.	Field inspection	Y	Periodic		
Verify site preparation complies with approved soils report.	Field inspection	Y	Continuous		
Verify use of proper materials, densities, and lift thicknesses during placement and compaction of controlled fill	Field inspection	Y	Continuous		
Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly	Field inspection	Y	Periodic		
Verify dry-density of compacted fill complies with approved soils report.	Review field testing	Y	Periodic		

* INSPECTION AGENTS		
FIRM	ADDRESS	TELEPHONE NO.
1.		
2.		
3.		

Notes:

1. The inspection and testing agent(s) shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official prior to commencing work. The qualifications of the Special Inspector(s) and/or testing agencies may be subject to the approval of the Building Official and/or the Design Professional.

2. The list of Special Inspectors may be submitted as a separate document, if noted so above.

3. Items left blank are not in the scope of this design professional & should be determined by other design professionals associated with the project.

Encircle "Yes" or "No" as appropriate below:		
Are Requirements for Seismic Resistance included in the Statement of Special Inspections?	Yes (No)	
Are Requirements for Wind Resistance included in the Statement of Special Inspections?	Yes (No)	

ALPHA BLDG SET 08-27-2024

DEFINITIONS REGARDING SPECIAL INSPECTIONS

AGENTS OF THE SPECIAL INSPECTOR (AGENTS) - QUALIFIED INDIVIDUALS OR FIRMS WORKING UNDER THE DIRECTION OF THE SPECIAL INSPECTOR WHO ARE PROVIDING THE INSPECTIONS AND TESTS NECESSARY TO COMPLETE THE SPECIAL INSPECTION PROCESS.

APPROVED FABRICATOR - A FABRICATOR REGISTERED AND APPROVED BY THE BUILDING OFFICIAL AND ENGINEER OF RECORD, TO PERFORM WORK OFF SITE WITHOUT SPECIAL INSPECTION. THE APPROVAL IS BASED UPON REVIEW OF THE FABRICATOR'S WRITTEN PROCEDURAL AND QUALITY CONTROL MANUAL AND PERIODIC AUDITING OF FABRICATIONS PRACTICES BY AN APPROVED SPECIAL INSPECTION AGENCY.
1. IF AN APPROVED FABRICATOR IS NOT USED, THEN THE SHOP FABRICATION OF STRUCTURAL MEMBERS AND ASSEMBLIES SHALL REQUIRE SPECIAL INSPECTION OF THE SHOP QUALITY CONTROL PROCEDURES PER SECTION 1704 OF THE IBC. FABRICATION EXAMPLES INCLUDE SHOP WELDING AND BOLTING AND THE ASSEMBLY OF PRE-ENGINEERED TRUSSES.

BUILDING OFFICIAL - THE OFFICER OR OTHER DESIGNATED AUTHORITY CHARGED WITH THE ADMINISTRATION AND ENFORCEMENT OF THE BUILDING CODE OR A DULY AUTHORIZED REPRESENTATIVE WHO HAS THE LEGAL AUTHORITY TO SEE THAT ALL OF THE PROVISIONS OF THE SPECIAL INSPECTION PROCESS ARE CARRIED OUT.

FABRICATED ITEM - STRUCTURAL LOAD-BEARING OR LATERAL LOAD RESISTING ASSEMBLIES CONSISTING OF MATERIALS ASSEMBLED PRIOR TO INSTALLATION IN A BUILDING OR STRUCTURE, OR SUBJECTED TO OPERATIONS SUCH AS HEAT TREATMENT, THERMAL CUTTING, COLD WORKING OR REFORMING AFTER MANUFACTURE AND PRIOR TO INSTALLATION IN A BUILDING OR STRUCTURE. MATERIALS PRODUCED IN ACCORDANCE WITH STANDARD SPECIFICATIONS REFERENCED BY THE IBC, SUCH AS ROLLED STRUCTURAL STEEL SHAPES, STEEL REINFORCING BARS, MASONRY UNITS AND PLYWOOD SHEETS, SHALL NOT BE CONSIDERED "FABRICATED ITEMS".

FINAL REPORT OF SPECIAL INSPECTIONS - A REPORT SUBMITTED TO THE BUILDING OFFICIAL AFTER CONSTRUCTION IS COMPLETE WHICH INCLUDES A STATEMENT THAT THE INSPECTIONS INCLUDED IN THE STATEMENT OF SPECIAL INSPECTIONS HAVE BEEN COMPLETED, AND A LISTING OF UNRESOLVED DISCREPANCIES. THIS REPORT IS SIGNED BY THE SPECIAL INSPECTOR.

SPECIAL INSPECTIONS - BUILDING CODE REQUIRED INSPECTIONS AND TESTS OF THE MATERIALS, FABRICATION, INSTALLATION OF ITEMS REQUIRING SPECIAL EXPERTISE TO ENSURE COMPLIANCE WITH APPROVED CONTRACT DOCUMENTS AND REFERENCED STANDARDS.

SPECIAL INSPECTION AGENCY - THE ACCREDITED INSPECTION COMPANIES APPROVED BY THE BUILDING OFFICIAL AND THE ENGINEER OF RECORD TO PERFORM SPECIAL INSPECTION AS REQUIRED BY THE BUILDING CODE AND THE PROJECT SPECIFICATIONS AND AS DESCRIBED IN SECTION 1704 OF THE 2018 INTERNATIONAL BUILDING CODE.

SPECIAL INSPECTOR (SI) - THE INDIVIDUAL OR FIRM RESPONSIBLE FOR COORDINATION OF THE SPECIAL INSPECTION PROGRAM AND TO WHOM ALL INSPECTION AND TESTING REPORTS ARE SENT.

STATEMENT OF SPECIAL INSPECTIONS - A DOCUMENT THAT OULINES THE SPECIAL INSPECTION REQUIREMENTS FOR THE PROJECT BEING PERMITTED. THE STATEMENT OF SPECIAL INSPECTIONS SHOULD BE FILED WITH THE BUILDING OFFICIAL PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.

ENGINEER OF RECORD (EOR) - THE STRUCTURAL ENGINEER WHO IS LEGALLY RESPONSIBLE FOR THE DESIGN OF THE PRIMARY STRUCTURAL SYSTEM.

TESTING AGENCY - AN APPROVED INDEPENDENT TESTING AGENCY ACCEPTABLE TO THE BUILDING OFFICIAL WHOSE ACTIVITIES ARE COORDINATED BY THE SPECIAL INSPECTOR.

CONTINUOUS SPECIAL INSPECTION: THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.

PERIODIC SPECIAL INSPECTION - THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK.

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NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, COVINGTON, GA
FOR: SUNBELT BUILDERS

MARK	DATE	BY	DESCRIPTION
2	5-6-2024		ISSUE FOR PRICING
1	4-30-2024		ISSUE FOR PRICING
	4-22-2024		ISSUE FOR PERMIT

DESIGNED:
DRAWN:
CHECKED:
APPROVED:

OE PROJECT NO: OE24007
FILE NAME: OE24007-S-CORE
ORIGINAL DRAWING SIZE: 36"x24"
DATE: 4-22-2024

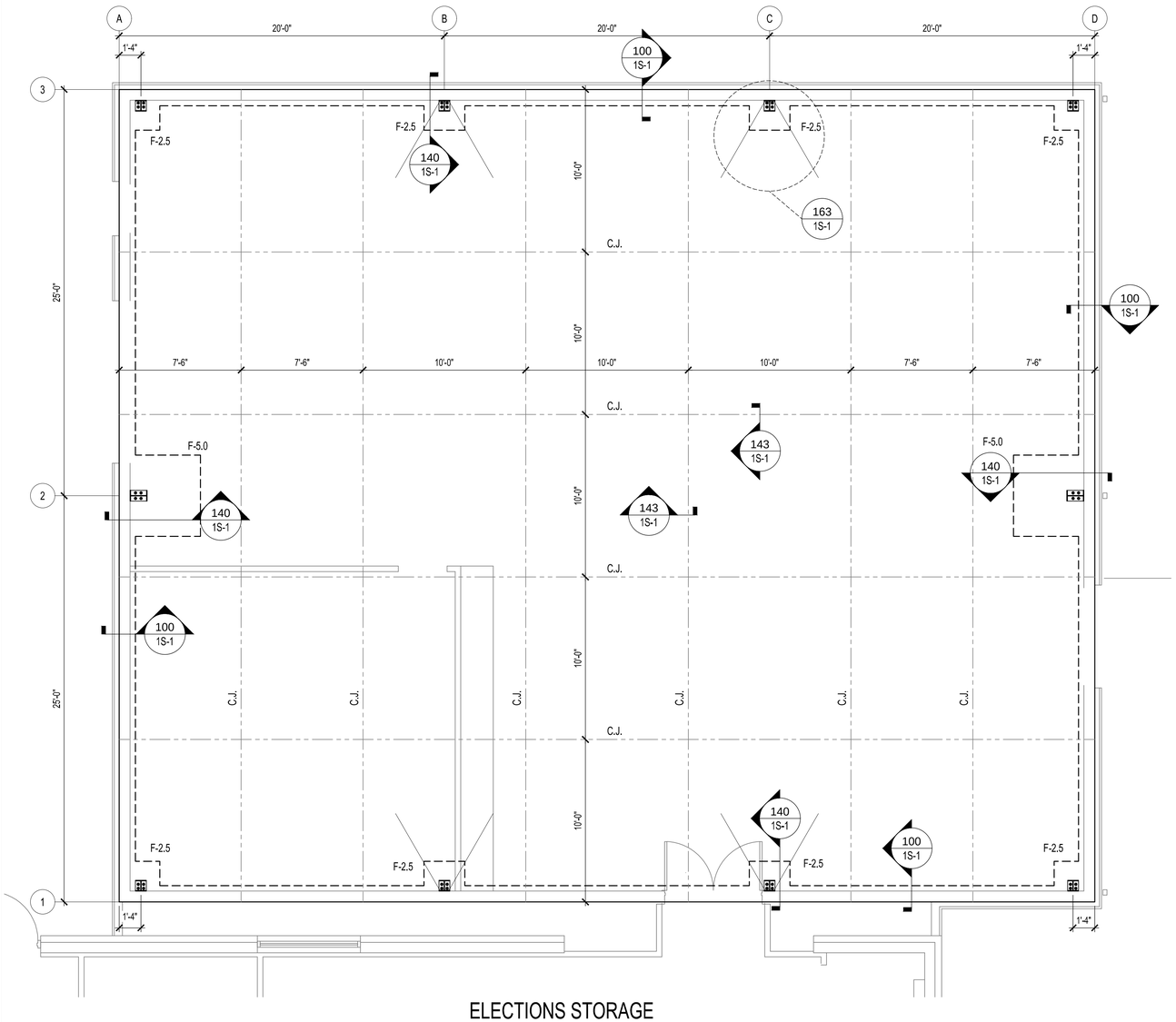
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SPECIAL INSPECTIONS

S-0.3
SHEET 3 OF 11

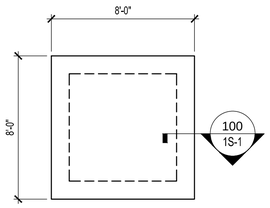
BM-050
XREFS: | GEA007-S-BASE-SE-Bk24.dwg | RL Cousins 2025Q1 base&rtn (share two 032824
PRINTED BY: RALPH BOSWELL | DATE: Monday, May 6, 2024 1:56:19 PM | DRAWING FILE: C:\work\Oconeeeast\24\007\OE24007-S-CORE.dwg | LAST MODIFIED: Monday, May 6, 2024 1:43:37 PM

ALPHA BLDG SET 08-27-2024



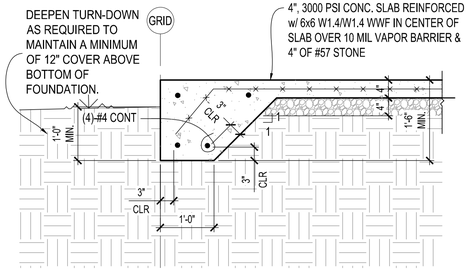
ELECTRICAL BLDG. FOUNDATION PLAN

105 — 1/8"=1'-0"



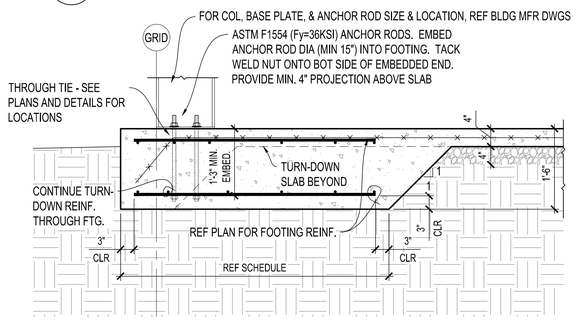
ELECTIONS STORAGE FOUNDATION PLAN

105 — 1/8"=1'-0"



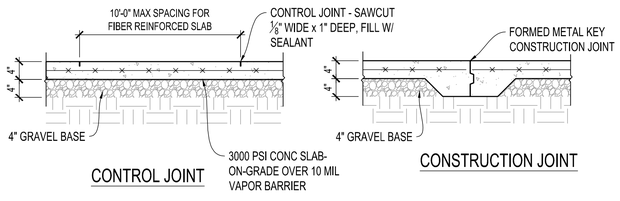
TURNDOWN @ 4" SLAB

100 — 3/4"=1'-0"



EXTERIOR COLUMN FOOTING SECTION

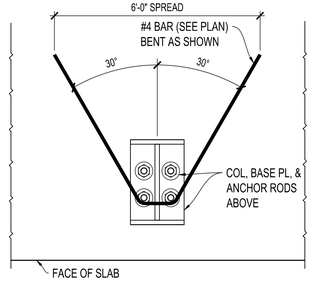
140 — 3/4"=1'-0"



NOTES:
1. SAW CUT AS SOON AS SLAB CAN SUPPORT WEIGHT.
2. CONTROL JOINTS MAY BE REPLACED WITH CONSTRUCTION JOINTS.
3. SLAB AREAS BOUNDED BY CONTROL OR CONSTRUCTION JOINTS SHALL HAVE LENGTHS NO MORE THAN 2x THEIR WIDTHS.

4" SLAB DETAILS

143 — 3/4"= 1'-0"



HAIRPIN REINF DETAIL

163 — 3/4"=1'-0"

FOUNDATION NOTES

1. DESIGN SOIL BEARING PRESSURE = 2000 PSF. SOIL BEARING PRESSURE SHALL BE VERIFIED AT TIME OF EXCAVATION AND STRUCTURAL ENGINEER SHALL BE NOTIFIED IF THE ACTUAL SOIL BEARING PRESSURE IS LOWER THAN THE DESIGN SOIL BEARING PRESSURE.
2. ALL TURN-DOWN FOOTINGS AT SLAB PERIMETER SHALL BEAR ON ORIGINAL UNDISTURBED SOIL OR STRUCTURAL FILL AND SHALL EXTEND A MINIMUM OF 12" BELOW GRADE.
3. BUILDING FOUNDATIONS SHALL BE 3000 PSI, NORMAL WEIGHT CONC. WITH REINF. AS INDICATED ON DRAWINGS.
4. CONCRETE SHALL HAVE A MAXIMUM WATER CEMENT RATIO OF 0.5 AND SHALL HAVE A MAXIMUM 4" SLUMP PRIOR TO ADDITION OF PLASTICIZER/WATER REDUCER.
5. CONDUITS & PIPES EMBEDDED IN SLABS:
   - 5.1. SHALL NOT BE LARGER IN OUTSIDE DIM THAN ⅓ THE OVERALL THICKNESS OF SLAB.
   - 5.2. SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS OR WIDTHS ON CENTER.
   - 5.3. MIN SLAB THICKNESS OF 2½" MUST BE MAINTAINED OVER THE EMBEDDED ITEMS.
6. EXTERIOR SLAB CONCRETE SHALL BE AIR ENTRAINED w/ AIR CONTENT OF 5 ½% ± 1 ½% AT POINT OF DELIVERY.
7. EPOXY SYSTEM FOR FOR INSTALLATION OF REINFORCING DOWELS SHALL BE HILTI HIT-HY200 MAX ANCHORING SYSTEM. CLEAN HOLES PER MFR' RECOMMENDATIONS.

REINFORCING STEEL NOTES

1. REINFORCING STEEL SHALL BE DETAILED, FABRICATED AND PLACED ACCORDING TO THE LATEST STANDARDS OF THE ACI.
2. REINFORCING BARS SHALL COMPLY WITH ASTM A-615 GRADE 60.
3. ALL BARS DENOTED CONTINUOUS ON PLANS, SECTIONS AND DETAILS SHALL HAVE CLASS "B" TENSION SPLICE LAPS AND CORNER BARS AND HOOKS AT DISCONTINUOUS ENDS.

SLAB-ON-GRADE NOTES

1. BUILDING SLAB SHALL BE 3000 PSI, NORMAL WEIGHT, 4" THICK CONC REINF W/ 6x6 W1.4/W1.4 WWF, CTR OF SLAB.
2. CONCRETE SHALL HAVE A MAXIMUM WATER CEMENT RATIO OF 0.5 AND SHALL HAVE A MAXIMUM 4" SLUMP PRIOR TO ADDITION OF PLASTICIZER/WATER REDUCER.
3. CONDUITS & PIPES EMBEDDED IN SLABS:
   - 3.1. SHALL NOT BE LARGER IN OUTSIDE DIM THAN ⅓ THE OVERALL THICKNESS OF SLAB.
   - 3.2. SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS OR WIDTHS ON CENTER.
   - 3.3. MIN SLAB THICKNESS OF 2½" MUST BE MAINTAINED OVER THE EMBEDDED ITEMS.
4. PROVIDE CONTROL / CONSTRUCTION JTS. IN SLAB-ON-GRADE PER DETAILS.
5. EXTERIOR SLAB CONCRETE SHALL BE AIR ENTRAINED w/ AIR CONTENT OF 5 ½% ± 1 ½% AT POINT OF DELIVERY.
6. EPOXY SYSTEM FOR FOR INSTALLATION OF REINFORCING DOWELS SHALL BE HILTI HIT-HY200 MAX ANCHORING SYSTEM. CLEAN HOLES PER MFR' RECOMMENDATIONS.

CONC REINF LAP LENGTH

3000 PSI (ACI 318-14)

BAR SIZE	TENSION SPLICE
	CLASS 'B'
#3	22"
#4	29"
#5	36"
#6	43"
#7	63"
#8	72"

FOOTING SCHEDULE

MARK	SIZE	THK	REINF
F-2.5	2'-6"x2'-6"	18"	(3)-#4 EW, TOP & BOTT.
F-3.5	3'-6"x3'-6"	18"	(4)-#4 EW, TOP & BOTT.
F-4.0	4'-0"x4'-0"	18"	(4)-#4 EW, TOP & BOTT.
F-5.0	5'-0"x5'-0"	18"	(5)-#4 EW, TOP & BOTT.
F5.5	5'-6"x5'-6"	18"	(6)-#4 EW, TOP & BOTT.

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R.L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, COVINGTION, GA
FOR: SUNBELT BUILDERS

MARK	DATE	BY	DESCRIPTION
	5-5-2024		ISSUE FOR PRICING
	4-22-2024		ISSUE FOR PRICING

DESIGNED:
DRAWN:
CHECKED:
APPROVED:

OE PROJECT NO: OE24007
FILE NAME: OE24007-S-CORE
ORIGINAL DRAWING SIZE: 36"x24"
DATE: 4-22-2024

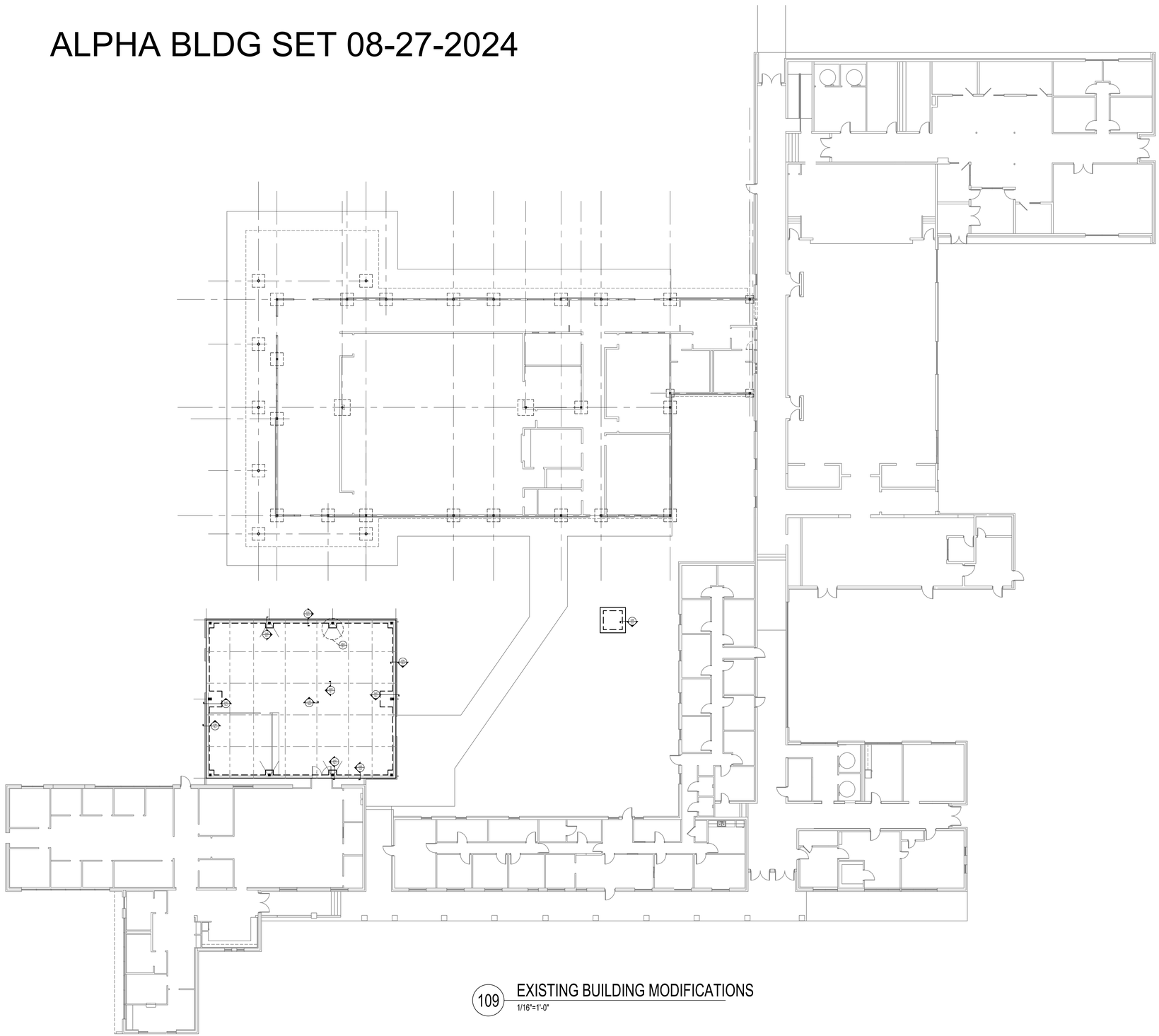
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PHASE ONE FOUNDATION PLAN

1S-1.0
SHEET 4 OF 11

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ALPHA BLDG SET 08-27-2024



109 EXISTING BUILDING MODIFICATIONS
1/16"=1'-0"

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R.L. COUSINS COMMUNITY CENTER
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MARK	DATE	BY	DESCRIPTION
	5-6-2024		ISSUE FOR PRICING
	6-20-2024		ISSUE FOR PRICING
	8-27-2024		ISSUE FOR PRICING

DESIGNED:
DRAWN:
CHECKED:
APPROVED:

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PHASE ONE
EXISTING BLDG.
MODIFICATIONS

1S-1.1
SHEET 5 OF 11

IMAGES
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MECHANICAL SPECIFICATIONS

1) Provide all heating, ventilation and air conditioning items indicated on the drawings, described in this specification or required for a complete and proper installation.

2)Comply with all pertinent codes, ordinances and regulations. Refer to website for Dept. of Community Affairs for current Codes Editions.

3)The contractor shall not attempt to precisely scale dimensions from these drawings to obtain construction dimensions and clearances. The contractor shall verify all actual dimensions and clearances. Although these plans are diagrammatic in nature, they shall be followed as closely as site conditions, new construction, and work by other trades shall permit. Deviations from these drawings, which are required to conform to the available space or the actual building construction, shall be made at no additional cost to the owner.

4)Furnish without extra charge, any additional material and labor required to comply with the above codes and standards, even though the work may not be described in the contract documents. Where the requirements of the contract documents exceed the requirements of the above codes and standards, the contract documents shall take precedence.

5)All equipment and material shall be new and of first quality. Equipment and material shall be the same or equal to the basis of design listed on these drawings and shall be UL listed.

6)Cooperate and coordinate with other trades in order that all systems in the work may be installed in the best arrangement.

7)Examine the areas and conditions under which work of this section will be installed. Correct conditions detrimental to the proper and timely completion of the work. Notify Architect of any discrepancies. Do not proceed until unsatisfactory conditions have been corrected.

8)Avoid interference with structure, and with work of other trades. Install all equipment per manufacturer's instructions. Install accessible parts, including equipment, coils, valves, dampers, controls, and filters with adequate clearance for inspection, adjustments, repair and replacement.

9)All other materials not specifically described but required for a complete and proper installation shall be as selected by the contractor subject to acceptance by the Engineer.

10) All ductwork shall be fabricated from galvanized sheet metal duct and conform to SMACNA "HVAC Duct Construction Standards–Metal and Flexible. Seal all joints in ductwork with mastic sealant.

11) Flexible duct: Flex master; Atco UPC#36(R–6.0); Atco UPC#31 (R–8) or Thermaflex, Type 3, insulated. 5'–0" Maximum length unless noted otherwise. Class 1 rating with R–value of 6.0 when located inside building insulation envelope and R–8 when located outside building insulation envelope. Install with no more than 135 degrees maximum of total bends per run. Maximum individual bend shall not exceed 45 degrees each. Support at five feet on centers with hangers having at least 2–inches of width at duct contact points. Flexible connectors shall not pass through any wall floor or ceiling weather rated or not. Provide 36–anches of metal duct at penetration of draft stops, fire walls and smoke walls.

12) Duct Liner: Owens Corning Aeroflex Plus, or equivalent. Incombustible glass fiber complying with ASTM C 1071; flexible blanket; impregnated surface and edges coated with acrylic polymer shown to be fungus and bacteria resistant by testing to ASTM G 21. Apparent Thermal Conductivity: Maximum of 0.31 at 75 degrees F. Service Temperature: 250 degrees F. Density: 1.5 pounds/cubic foot. Install using adhesive (50% coverage) and galvanized steel fasteners with welded press–on head Thickness: 1–inch.

13) Condensate drain piping shall be ASTM D2665 PVC with solvent welded fittings. Drain piping shall be no smaller than the drain connection size on equipment. Slope at 1/8 inch per foot continuously toward drains. All indoor condensate drain piping shall be insulated with preformed flexible plastic cellular foam. All outdoor condensate drain piping shall be primed and painted with a coating system recommended by the piping manufacturer for protection against deterioration from weather and UV–light exposure. All piping shall be adequately supported to maintain proper slope and avoid sagging.

14) Refrigerant piping shall conform to manufacturer's recommendations and installation instructions. Refrigerant piping shall be ASTM B280 Type ACR or ASTM B88 Type L drawn copper tubing with wrought copper fittings. Insulate suction line with ½" thick flexible foamed plastic cellular foam (Armaflex or equivalent). All piping shall be adequately supported. Insulation installed outdoors shall be painted with two coats of Armacell WB coating or equivalent.

15) Thermostats: Provide 24 volt, programmable 24–hour, 7–day thermostat to control heating stages in sequence with delay between stages and supply fan to maintain temperature setting. For Heat Pumps include system selection switch heat–off–cool and fan control switch (auto–on), emergency heat switch (auxiliary/emergency heat indicator lights).

16) Provide fire and smoke rated flexible connections between fans and ducts. Material shall comply with NFPA 90A requirements for material in supply air stream.

17) Install all equipment in accordance with manufacturer's instructions and recommendations including clearances recommended for proper operation or service. All filters and serviceable parts shall be readily accessible.

18) Indoor duct insulation: Foil–faced fiberglass, Owens Corning type 75 or equal, 2.2" thick(R–6), unless the insulated duct is outside building insulation envelope (attic, crawlspace or unconditioned space) in which case the duct insulation thickness shall be 3? thick(R–8). Duct shall have a flame spread rating of not more than 25 and smoke developed rating of not more than 50. Glass–Fiber Insulation: All service duct wraps with foil scrim and having backing and a k–value of 0.30 at 75° F mean temperature and an average maximum density of 0.75 lb./cu. ft.

19)Outside duct insulation: Insulate ducts and fittings with two, staggered layers of ? –inch foamed plastic sheet insulation, (Armo–Flex sheets) 6–pound density, having a thermal conductivity of not more than 0.28 at 75?F. Apply insulation with smooth side out of coating both surfaces to be joined completely with a thin coat of waterproof instant bonding adhesive. Adjacent sheets shall fit under compression. Apply a 16 mil embossed aluminum jacket with a 2–inch overlap at longitudinal and transverse joints, secured in place with ? –inch by .015–inch aluminum bands on 18–inch centers. Overall insulation value must be R–8 for exterior duct as per ASHRAE 90.1 & IECC.

20) All supply, return and outside air ducts shall be insulated. Install acoustical duct liner on the interior surface of the first five (5) linear feet of supply duct downstream and the return air plenum of all air handlers and rooftop units. For packaged unit PU–1 provide duct liner for fist five feet of duct within building envelop no liner shall be provided at exterior ductwork. Insulate the concealed tops of all ceiling mounted supply air diffusers with foil–faced fiberglass, 1.5#/cubic foot density, 2? thick. Seal edges to ceiling grid with foil faced tape to provide vapor tight seal.

21) All low–pressure duct branches shall contain manual balancing dampers. Manual balancing dampers shall also be installed in the continuation of the main, if the main duct is smaller or the same size as the branch duct, or if the continuation of the main serves only one device.

22) Make all duct elbows right angle type with single –thickness turning vanes or construct with centerline radius 1–1/2 times the duct width.

23) Duct sizes shown on plans are clear, interior dimensions. Duct sizes shown shall be enlarge to allow for liner at locations of interior liner.

24) Do not cut into or reduce the size of any structural member without the permission of the Architect.

25) Provide weather–proof flashing at all duct and pipe penetrations through the building walls and roof. As a minimum, flashings shall be designed and installed in accordance with SMACNA standards. Flashings shall be guaranteed weatherproof.

26) Support all HVAC units, ductwork, piping and other appurtenances from structure, provide vibration isolation at all fans which are not internally isolated. Provide hanger rod with built in rubber–in–shear isolator. Between drain pan and unit provide 4 each rubber–in–shear isolator. Do not attach vibration isolator to drain pan. Do not screw or drive fasteners into non–structural components such as roof decks or non–load bearing walls.

27) Thoroughly clean all components and remove all dirt, scale, oil, and other foreign substances. Provide clean air filters for all equipment.

28) Perform all tests necessary to demonstrate the integrity of the complete installation to the approval of the Engineer and all other authorities having jurisdiction. Make all adjustments necessary and balance the completed system in accordance with the data shown. Balance the systems in accordance with NEBB or AABC standards. Acceptable tolerances shall be minus ten percent to plus five percent of all measurements. Balancing shall be done by an independent licensed (by NEBB or AABC) TAB contractor. Make the following tests and submit reports to the Architect:

a) Airflow rate at each supply, return and exhaust outlet or inlet.
b) Total airflow rate and total static pressure for each supply and exhaust fan. Test exhaust fans with room doors closed.
c) Motor speed, for multiple speed fans (e.g. high, medium, low).
d) For direct drive fans, provide speed settings and actual rpm, including ECM motor driven fans
e) Provide fan and motor rpm for belt driven fans. Provide sheave sizes.
f) Outside airflow rate to each HVAC unit and supply fan.
g) Motor current (and compare with nameplate data) at all motors.
h) Entering and leaving air dry–bulb and wet–bulb conditions at all cooling coils.
i) Heat output capacity for unit heaters, heating devices and coils (kW or MBH).
j) Manufacturer, model and serial number for each piece of HVAC equipment scheduled on drawings.
k) Calibrate thermostats to be within one degree of actual temperature at thermostat.
l) Verify that all HVAC devices operate as scheduled or indicated (i.e. ON–OFF, 2–stage, variable output (SCR heaters), etc.

28) The entire system shall be warranted for a period of one (1) year beginning with Owner's acceptance of the work. Compressors shall include a minimum of five (5) year parts only warranty from the manufacturer. All labor and materials necessary to repair or replace the system or portions thereof, during that time shall be warranted for a period of one (1) year from the repair of replacement.

29) SUBMITTALS AND SUBMITTAL PROCEDURES:

a. Contractor shall review the submittal data and check for the purpose of compliance with safety requirements, verification of dimensions, contract documents and methods and means prior to submitting to design professional. Contractor shall indicate approval by indicating such on the submittal.
b. Transmit each submittal electronically in PDF format.
c. Sequentially number submittal files and transmittal form. Revise submittals with original number and a sequential alphabetic suffix. File names shall describe item included in file.
d. Identify Project, the Contractor, Subcontractor or supplier; pertinent drawing and detail number, and specification section number, as appropriate on each copy. Each file shall include an index of items included in file.
e. Apply the Contractor's stamp, signed or initialed certifying that review, approval, verification of Products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with the requirements of the Work and Contract Documents.
f. Submittal data for all items in project shall be submitted at one time. Submittal shall be divided into groups with file sizes not exceeding 6 MB. If there is unavailable data such as control submittal, etc., these may be submitted later if not doing so would delay project progress. Data shall include capacities, complete installation instructions, dimensional data and electrical data, BHP, motor HP, operating weights and load distribution at mounting points.
g. Deliver submittals electronically to the Design Professional.
h. Schedule submittals to expedite the Project, and coordinate submission of related items.
i. For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.
j. Identify variations from Contract Documents and Product or system limitations that may be detrimental to successful performance of the completed Work.
k. Provide space for the Contractor and the Architect/ review stamps.
l. When revised for resubmission, identify all changes made since previous submission.
m.Distribute copies of reviewed submittals as appropriate. Instruct parties to promptly report any inability to comply with requirements.
n. Submittals not requested will not be recognized or processed.
o. Provide files containing only related items (such as piping, equipment, air distribution, etc.)

30) Instruct Owner's representative in the operation of the systems, using the operation and maintenance manual as a teaching aid.

31) Provide an operation and maintenance manual. As a minimum, the manual shall contain:

a. A complete list of all equipment and appurtenances with equipment designations (per Drawings), manufacturers, and catalog numbers.
b. Copies of manufacturers' brochures and instructions for operation and maintenance of all mechanical equipment, including replacement parts lists.
c. Typed system operation and maintenance instructions, including inspection, lubrication, and service instructions and schedules.
d. List of names, addresses and phone numbers of distributors of all equipment and appurtenances.
e. Manufacturers' warranties.

32) Horizontal Air Handler unit: Indoor fan–coil unit shall be direct–expansion horizontal heat pump air handler with electric strip heat suspended from structure with auxiliary drip pan and condensate drain. Provide float switch in drip pan to shut down unit if pan begins to fill. Unit shall be complete with cooling coil, fan, fan motor, piping connectors, electrical controls, microprocessor control system, and integral temperature sensing. Cabinet shall be fully insulated for improved thermal and acoustic performance. Condensate pan shall have internal trap and auxiliary drip pan under coil header. Provide condensate trap recommended by manufacturer. Air filters shall be 1–inch–thick glass fiber, disposable type arranged for easy replacement. Provide number of stages as scheduled. Provide condensate overflow switch (Rectorseal Safe–T–Switch Model SS1 or equivalent) wired to shut unit down in case of condensate overflow.

33) Vertical Air Handler unit: Indoor fan–coil unit shall be direct–expansion vertical heat pump air handler with electric strip heat mounted on plenum with auxiliary drip pan and condensate drain. Provide float switch in drip pan to shut down unit if pan begins to fill. Unit shall be complete with cooling coil, fan, fan motor, piping connectors, electrical controls, microprocessor control system, and integral temperature sensing. Cabinet shall be fully insulated for improved thermal and acoustic performance. Condensate pan shall have internal trap and auxiliary drip pan under coil header. Provide condensate trap recommended by manufacturer. Air filters shall be 1–inch–thick glass fiber, disposable type arranged for easy replacement. Provide number of stages as scheduled. Provide condensate overflow switch (Rector seal Safe–T–Switch Model SS1 or equivalent) wired to shut unit down in case of condensate overflow.

34) Indoor, direct–expansion, wall–mounted fan coil. Unit shall be complete with cooling/heating coil, fan, fan motor, piping connectors, electrical controls, microprocessor control system, and integral temperature sensing. Unit shall be furnished with integral wall mounting bracket and mounting hardware. Cabinet discharge and inlet grilles shall be attractively styled, high–impact polystyrene. Cabinet shall be fully insulated for improved thermal and acoustic performance. Fan shall be tangential direct–drive blower type with air intake at the top of the unit and discharge at the bottom front. Automatic, motor–driven vertical air sweep shall be provided standard. Air sweep operation shall be user selectable. The vertical sweep may be adjusted (using the remote control) and the horizontal air direction may be set manually. Coil shall be copper tube with aluminum fins and galvanized steel tube sheets. Fins shall be bonded to the tubes by mechanical expansion and golden hydrophilic pre–coated. A drip pan under the coil shall have a drain connection for hose attachment to remove condensate. Condensate pan shall have internal trap. Motors shall be open drip–proof, permanently lubricated ball bearing with inherent overload protection. Fan motors shall be 4–speed. Controls shall consist of a microprocessor–based control system which shall control space temperature, determine optimum fan speed, and run self–diagnostics. The temperature control range shall be from 62°F to 86°F (17°C to 30°C) in increments of 1°F or 1°C, and have 46°F Heating Mode (Heating Setback). The wireless or wired remote controller shall have the ability to act as the temperature sensing location for room comfort. Refer to schedule for preference on wired or wireless thermostat. The unit shall have the following functions as a minimum: An automatic restart after power failure at the same operating conditions as at failure. A timer functions to provide a minimum 24–hour timer cycle for system Auto Start/Stop. Temperature–sensing controls shall sense return air temperature. Indoor coil freeze protection. Wireless infrared remote control and/or wired remote control as scheduled to enter set points and operating conditions. Automatic air sweep control to provide on or off activation of air sweep louvers. Dehumidification mode shall provide increased latent removal capability by modulating system operation and set point temperature. Fan–only operation to provide room air circulation when no cooling is required. Diagnostics shall provide continuous checks of unit operation and warn of possible malfunctions. Error messages shall be displayed at the unit. Fan speed control shall be user–selectable: high, medium, low, or microprocessor controlled automatic operation during all operating modes. Automatic heating–to–cooling changeover in heat pump mode. Control shall include deadband to prevent rapid mode cycling between heating and cooling. Indoor coil high temperature protection shall be provided to detect excessive indoor discharge temperature when unit is in heat pump mode. Unit shall have filter track with factory–supplied cleanable filters. Indoor fan motor to operate on 115V on model size 12 and on 208–230V on model sizes 09–36, as specified. Power is supplied from the outdoor unit. All units should have refrigerant lines that can be oriented to connect from the left, right or back of unit. Both refrigerant lines need to be insulated. The condensate pump shall remove condensate from the drain pan when gravity drainage cannot be used. Pump shall be designed for quiet operation. Pump shall consist of two parts: an internal reservoir/sensor assembly, and a remote sound–shielded pump assembly. A liquid level sensor in the reservoir shall stop cooling operation if the liquid level in the reservoir is unacceptable. Refer to schedule for providing condensate pump. Only provide condensate pump were indicated on schedule.

35) Small Split Condensing unit: Casing: House components in welded steel frame with galvanized steel panels with weather resistant, baked enamel finish. Mount contactors and controls in weatherproof panel provided with full opening access doors. Provide removable access doors for panels with quick fasteners. Compressor: Hermetically sealed, 3600 rpm maximum, resiliently mounted with positive lubrication and internal motor protection. Compressor: Hermetic reciprocating type or Hermetic scroll type. Condenser Coils: Aluminum fins mechanically bonded to seamless copper tubing or all aluminum fins and tube. Air test under water to 425 psig, and vacuum dehydrate. Seal with holding charge of refrigerant. Coil Guard: Louvered or PVC coat steel wire. Fans and motors: Direct driven propeller type condenser fans with fan guard on discharge. Weatherproof motors suitable for outdoor use, single phase permanent split capacitor with permanent lubricated ball bearings and built in thermal overload protection. Fan Guard: PVC coat steel wire. Refrigerant circuit: For each refrigerant circuit, provide: Filter dryer liquid line. Suction accumulator. Suction and liquid line service valves and gage ports. Charging valve. Condenser pressure relief mechanism. Factory wired with single point power connection. Factory wired controls shall include contactor, high– and low–pressure cutouts, internal winding thermostat for compressor, control circuit transformer, non–cycling reset relay. Provide a surge capacitor and lightning arrestor in unit cabinet for protection from power surges due to lightning and switching transients. Provide controls to permit operation down to 0 degrees F ambient temperature were scheduled to include: Crankcase heater with thermostat. Head pressure switch to cycle fan motors in response to refrigerant condensing pressure. Solid state control to vary speed of one condenser fan motor in response to refrigerant condensing pressure. Refer to Schedule on Drawings for additional specifications.

36) Air Source Heat Pumps (HP): outdoor–mounted, air–cooled split system outdoor section suitable for rooftop installation, consisting of a hermetic compressor, an air–cooled coil, propeller–type blow–thru outdoor fans, accumulator, full refrigerant charge (R–410A), and control box. Unit shall function as the outdoor component of an air–to air cooling system and used in a refrigeration circuit matched to the indoor unit. Unit construction shall comply with ANSI/ASHRAE 15, latest revision, the NEC, and UL standards. Provide rail support system compatible with roofing system. Refer to Schedule on Drawings for additional specifications.

37) Provide a duct smoke detector on the supply duct of each air handling unit or rooftop unit with design airflows exceeding 2,000 CFM, and where smaller air handling units have common return ductwork or plenum and total air flow exceeds 2,000 CFM. Install detector in accordance with the International Mechanical Code section 606 Smoke Detection Control System with Georgia Amendments 2018. Detectors shall be provided by the electrical/fire alarm subcontractor and shall be installed by the mechanical subcontractor. For other fans, such as exhaust fans with design airflows exceeding 2,000 CFM, coordinate with the electrical/fire alarm subcontractor to provide room or duct smoke detectors. Where no fire alarm system is installed in building provide smoke detector, audio visual annunciator and trouble indicator in an approved location. Duct smoke detector trouble conditions shall activate a visible or audible signal in an approved location and shall be identified as air duct detector trouble. Provide contacts to automatically shut down all such fan motors when smoke is detected, to indicate detector status to the fire alarm system, and to require a manual reset of the shut–down relay.

38) Fire damper; curtain type with blades outside air stream except when located behind grilles when blades may be in air stream. Provide 1–1/2 hr class unless noted otherwise, vertical or horizontal mounting as shown on drawings with re–placeable, rated, fusible link. Duct–Mounted Access Doors: Provide access doors for access to fire or smoke dampers having fusible links, doors shall be pressure relief access doors; and shall be outward operation for access doors installed upstream from dampers and inward operation for access doors installed downstream from dampers adjacent to and close enough to fire or smoke dampers, to reset or reinstall fusible links. Fabricate access panels according to SMACNA's "HVAC Duct Construction Standards – Metal and Flexible"; Figures 2–10, "Duct Access Doors and Panels," and 2–11, "Access Panels – Round Duct."

39) Grilles, Registers and Diffusers: Grilles, registers, and diffusers as indicated on the drawings have been selected from the catalog of the manufacturer noted as the basis of design. Sizes, types, and performance of the devices to be provided must be coordinated to insure conformity with design basis. Sidewall supply grilles and registers shall have vertical front blades; sidewall return grilles shall have horizontal blades. Grilles and registers with borders shall have felt or rubber gaskets cemented to the back face and holding screws not over 18 inches on centers around the perimeter. Holding screws shall be counter–sunk to fit flush with face of grille or register. Grilles passing air through partitions shall be as described for wall return grilles, one for each side of partition. Register dampers shall be of the gang–operated, opposed blade type, operated through the face of the register. Operating mechanism shall not project through the register face. Mounting frame shall be coordinated with architectural reflected ceiling plans. Construction shall be of steel or aluminum as scheduled, with frame type to match ceiling construction. Sidewall supply grilles and registers shall be double–deflection type, with vertical front vanes. Construction shall be of steel, with 3/4–inch blade spacing. Return air grilles, return air registers, exhaust grilles, exhaust registers and transfer air grilles located in ceilings shall be constructed of aluminum with "egg–crate" design, with 1/2–inch x 1/2–inch x 1/2–inch grids. Frame style shall be compatible with ceiling construction. Install wall grilles and registers with horizontal edges parallel to ceiling. Concentric diffuser assemblies at roof top units shall have paint–ready exterior finish and 1–inch lined supply and return ducts that transition to diffuser size within 24 inches vertically of the bottom of roof top unit curb.

40) Basic motor requirements: basic requirements apply to mechanical equipment motors, unless otherwise indicated. Motors 1/2 hp and larger: Polyphase, unless otherwise scheduled. Motors smaller than 1/2 hp: single phase. Frequency rating: 60 Hz. Service factor: according to NEMA MG 1, general purpose continuous duty, design type "B." Enclosure: open drip–proof, unless otherwise indicated. Efficiency: motors shall have a higher efficiency rating than industry standard average motor as delineated in IEEE Standard 112, test method 13. Thermal protection: where indicated or required, internal protection automatically opens power supply circuit to motor when winding temperature exceeds a safe value calibrated to temperature rating of motor insulation. Thermal protection device automatically resets when motor temperature returns to normal range, unless otherwise indicated.

41) Hangers and supports: Building attachments: concrete inserts or structural–steel fasteners appropriate for building materials, and beam clamps. Hanger materials: galvanized, sheet steel or round, threaded steel rod. Hangers installed in corrosive atmospheres: electrogalvanized, all–thread rod or galvanized rods with threads painted after installation. Straps and rod sizes: comply with SMACNA's "HVAC Duct Construction Standards––Metal and Flexible" for sheet steel width and thickness and for steel rod diameters. Duct attachments: sheet metal screws, blind rivets, or self–tapping metal screws; compatible with duct materials. Trapeze and riser support galvanized steel shapes and plates: steel shapes complying with ASTM A 36/A 36M.

42) Sealant materials: joint and seam sealants, general: the term "sealant" is not limited to materials of adhesive or mastic nature but includes tapes and combinations of open–weave fabric strips and mastics. Joint and seam tape: 2 inches wide; glass–fiber fabric reinforced. Joint and seam sealant: one–part, nonsag, solvent–release–curing, polymerized butyl sealant, formulated with a minimum of 75 percent solids. Flanged joint mastics: one–part, acid–curing, silicone, elastomeric joint sealants, complying with ASTM C 920, type S, grade NS, class 25, use O.

43) Packaged Roof Top Units–Gas Heat: Outdoor packaged units, ground mounted, electrically controlled, 2–stage stage cooling with 2–stage gas heat units, as scheduled, utilizing scroll hermetic compressor(s) for cooling duty and an indirect fired gas furnace section for heating duty. Unit shall discharge supply air vertically. Unit shall exceed ASHRAE 90.1–2001 Energy Standards, be rated in accordance with ARI Standards 210/240 or 360 and 270, in accordance with UL Standard 1995, conform to ASHRAE 15, latest revision, be UL–tested and certified in accordance with ANSI Z21.47 Standards. Factory assembled, single–piece heating and cooling unit. Contained within the unit enclosure shall be all factory wiring, piping, controls, refrigerant charge, and thermal expansion valve. Unit cabinet shall be constructed of galvanized steel, and shall be phosphatized/bonderized and coated with a pre–painted baked enamel finish on all externally exposed surfaces. Coils shall have aluminum fins mechanically bonded to copper tubing. Evaporator fan compartment interior cabinet surfaces shall be insulated with a minimum 1/2–in. thick, 1 lb. density, flexible fiberglass insulation, neoprene coated on the air side. Cabinet insulation shall meet ASHRAE Standard 62P. Aluminum foil–faced fiberglass insulation shall be used in the gas heat compartment. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation. Cabinet panels shall be easily removable for servicing. Condenser coils shall have protective wire guards. Unit shall have a factory–installed, sloped condensate drain pan made of a non–corrosive material, with a minimum 3/4–in.–14 NPT connection and shall comply with ASHRAE Standard 62. Unit shall have 2–inch pleated MERV 7 disposable filters a removable, filter access panel to provide filter access. Unit shall have standard wire–thru–bottom utility connection capability and accessory powered convenience receptacle. Provide matching pre–fabricated roof curb with direct, duct attachment capability. Provide low– and high–pressure safety switches, anti–short cycle safety, and low ambient operation. Provide microprocessor control panel and complete, factory–wired controls, including discharge air temperature sensor, and communications interface. Refer to schedule for layout basis. Substitutions shall match the features of specified model. Provide condensate overflow switch (Rectorseal Safe–T–Switch Model SS1 or equivalent) wired to shut unit down in case of condensate overflow. Refer to Schedule on Drawings for additional specifications.

44) BI–POLAR IONIZATION DESIGN & PERFORMANCE CRITERIA:

The Bi–polar Ionization system shall be capable of effectively killing microorganisms downstream of the bi–polar Ionization equipment (mold, bacteria, virus, etc.). Controlling gas phase contaminants generated from human occupants, building structure and furnishings. Capable of reducing static space charges. Increasing the interior ion levels, both positive and negative, to a minimum of 800 ions/cm? measured 5 feet from the floor. Self–cleaning requiring no maintenance or replacement parts. Producing a minimum of 160M ions/cc. The bi–polar ionization system shall operate in a manner such that equal amounts of positive and negative ions are produced. Uni–polar ion devices shall not be acceptable.

Velocity Profile: The air purification device shall not have maximum velocity profile.

Humidity: Plasma Generators shall not require preheat protection when the relative humidity of the entering air exceeds 85%. Relative humidity from 0 – 100%, condensing, shall not cause damage, deterioration or dangerous conditions within the air purification system. Air purification system shall be capable of wash down duty.

Equipment Requirements: Electrode Specifications (Bi–polar Ionization): Each Plasma Generator with Bi–polar Ionization output shall include the required number of electrodes and power generators sized to the air handling equipment capacity. A minimum of one electrode pair per 2,400 CFM of air flow shall be provided. Bi–polar Ionization tubes manufactured of glass and steel mesh shall not be acceptable due to replacement requirements, maintenance, performance output reduction over time, ozone production and corrosion. Electrodes shall be energized when the main unit disconnect is turned on and the fan is operating. Electrodes shall be made from carbon fiber to prevent oxidation over time. Internal circuitry shall be provided to sense air flow across the electrode output. Ionization systems requiring the use of a mechanical air pressure switch to cycle the electrodes only when the fan is operating shall not be acceptable due to high failure rates and pressure sensitivity. Electrode pair shall provide a minimum of 160 million ions per cubic centimeter as measured at 2 inches, both positive and negative ions, in equal quantities. Devices providing less than 160 million ions/cc per electrode pair shall not be acceptable. Each Plasma Generator shall be provided with a self–cleaning system that is field programmable to change the number of days between the cleaning cycle. Systems without a no–maintenance, self–cleaning system shall not be acceptable. Each electrode pair shall be designed with a banana style plug such that it can be field replaced, if necessary. Each Plasma Generator shall be provided with an inline on/off switch, universal voltage input (24VAC to 240VAC or DC), magnets for mounting to the fan inlet, replaceable carbon fiber emitters and a programmable self–cleaning system.

Air Handler & Plenum Mounted Units (non–ductless mini–split units): Where so indicated on the plans and/or schedules Plasma Generator(s) shall be supplied and installed. The mechanical contractor shall mount the Plasma Generator and wire it to the AHU control power (24VAC) as instructed by the Air Purification Manufacturer's instructions or line voltage subject to power available. Each unit shall be designed with a molded casing, self–cleaning system, self–cleaning test button, power status LED and dry contacts to prove ion output is operating properly. The dry contacts shall close to prove the ion generator is working properly and may be daisy chained in series such that only one dry contact per AHU is required to interface to the BAS or the optional DDC controller. Dry contacts proving power has been applied in lieu of the ion output is actually operating, are not acceptable. Manufacturers providing multiple ion modules that have alarm status wired in parallel, and not in series, shall not be acceptable.

Ionization Requirements: Plasma Generators with Bi–polar ionization output shall be capable of controlling gas phase contaminants and shall be provided for all equipment listed above.

The Bi–polar ionization system shall consist of Bi–Polar Plasma Generator and integral power supply. The Bi–polar system shall be installed where indicated on the plans or specified to be installed. The device shall be capable of being powered by 24VAC to 240VAC without the use of an external transformer. Ionization systems requiring isolation transformers shall not be acceptable.

Ionization Output: The ionization output shall be controlled such that an equal number of positive and negative ions are produced. Imbalanced levels shall not be acceptable.

Ionization output from each electrode shall be a minimum of 160 million ions/cc when tested at 2? from the ionization generator.

All manufacturers shall provide documentation by an independent NELAC accredited laboratory that proves the product has minimum kill rates for the pathogens given the allotted time and in a space condition:

Ozone Generation: The operation of the electrodes or Bi–polar ionization units shall conform to UL 867–2007 with respect to ozone generation. There shall be no ozone generation during any operating condition, with or without airflow.

Control Requirements: All Plasma Generators shall have internal short circuit protection, overload protection, and automatic fault reset circuit breakers. Systems with manual fuses shall not be allowed. Integral airflow sensing shall modulate the Plasma output as the airflow varies or stops. A mechanical airflow switch shall not be acceptable as a means to activate the Plasma device due to high failure rates and possible pressure reversal. The installing contractor shall mount and wire the Plasma device within the air handling unit specified or as shown or the plans. The contractor shall follow all manufacturer IOM instructions during installation. Dry contacts shall be provided to prove there are ions being produced. Systems providing indication that power is applied to the Plasma device, but not directly sensing the power at the ion output, shall not be acceptable.

45) Gravity Ventilators: Heavy gauge arched sheet aluminum with interlocking seams or spun aluminum with base for curb mounting. Provide matching pre–fabricated roof curb and bird screen. Provide normally closed gravity backdraft damper.

46) All HVAC equipment such as AH, CU, EF, AC, HP, and RTU shall have visible nameplates with their associated marks on them.

47) Ceiling Ventilator shall have corrosion resistant galvanized steel housing with four–point mounting capability. It shall be ducted to a cap on wall or roof using round ductwork. Blower assembly shall be removable, have a centrifugal–type blower wheel and a permanently lubricated motor designed for continuous operation. Non–metallic damper/duct connector shall be included. Fan and heater shall be separately controllable. Fan shall contain electric heater Air delivery shall be no less than scheduled and sound level no greater than listed in the schedule. All air and sound ratings shall be certified by HVI.

48) Acceptable Manufacturers are:

Air Handlers & Heat Pumps, Packaged Units:	Carrier, Trane, York, Lennox
Small Split Units:	Mitsubishi, Daikin, Hitachi, Toshiba
Grilles, Registers & Diffusers:	Titus, Nailor, Price, Tuttle & Bailey, Kruger, Metal Aire (Color selection submitted to Architect)
Fans:	Twin–City, Cook, Greenheck, Penn Barry, Acme, American Cool Air, Captive Air, Solar & Palau
Louvers/Dampers/Fire Dampers:	United Enertech, Greenheck, Ruskin, Arrow United, Air Balance
Controls–provided with unit:	Provide thermostats by same manufacturer as equipment

ALPHA BLDG SET 08-27-2024

PHASE 1

GEORGIA REGISTERED PROFESSIONAL ENGINEER KRUNAL M PATEL
Seal:

TOTAL ENGINEERS
169 New Street, Macon, GA 31201
(478)741-4632 - T.E. project # 23-101
www.totalengineers.com

Client: sunbelt BUILDERS 10841 HWY 9 DOWNTOWN GA 30014 • 770 788 0 1 770 788 046

Project: R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24–04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Issue Date:	Initial:	Drwg. Revision Description:

Project No.:
Drwg. Date: 04/15/24
Drwg. Revision:
Drawn By: JWK & KMP
Checked By: KMP
File Name:

Sheet Title: MECHANICAL SPECIFICATIONS

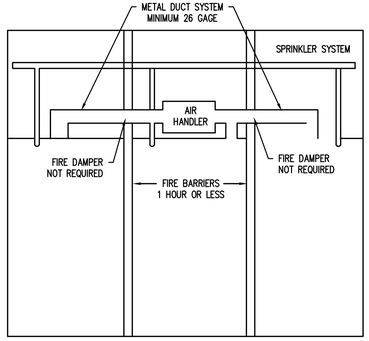
Sheet No.: M-0.1

GRAVITY VENTILATOR SCHEDULE

MARK	SERVICE	THROAT AREA SF	INTAKE AREA SF	MAX CFM	GREENHECK MODEL	NOTES
GV-1	INTAKE	0.37	1.30	170	GRSI 8	1

1. SPUN ALUMINUM GRAVITY VENTILATOR.

FIRE DAMPERS ARE NOT REQUIRED AT PENETRATIONS OF FIRE BARRIERS WHERE SUCH WALLS THAT ARE PENETRATED BY DUCTED HVAC SYSTEMS, HAS A REQUIRED FIRE-RESISTANCE RATING OF 1 HOUR OR LESS, ARE IN AREAS OF OTHER THAN GROUP H AND ARE IN BUILDINGS EQUIPPED THROUGHT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2 OF THE INTERNATIONAL BUILDING CODE. FOR THE PURPOSES OF THIS EXCEPTION, A DUCTED HVAC SYSTEM SHALL BE DUCT SYSTEM FOR THE STRUCTURE'S HVAC SYSTEM. SUCH A DUCT SYSTEM SHALL BE CONSTRUCTED OF SHEET STEEL NOT LESS THAN 26 GAGE [0.0217 INCH (0.55 MM)] THICKNESS AND SHALL BE CONTINUOUS FROM THE AIR-HANDLING APPLIANCE OR EQUIPMENT TO THE AIR OUTLET AND INLET TERMINALS.



IGURE INTERNATIONAL MEC ANICAL CODE

1 IRE DAMPER E CEPTION DETAIL
DUCTED GAGE METAL SYSTEM
SCALE: N.T.S.

SELF-CLEANING IONIZATION SYSTEM SCHEDULE

AIRFLOW CAPACITY MIN-MAX CFM	BASIS OF DESIGN GLOBAL PLASMA SOLUTIONS	NOTES
0-2400	GPS-FC24-AC	1:2:3:4:5
0-1200	GPS-FC	1:6:7:8
0-8000	GPS-IMOD	1:2:3:4:9

1. INTERLOCK IONIZATION SYSTEM TO RUN WITH EVAPORATOR FAN.
2. UNIT SHALL BE EQUIPPED WITH UNIVERSAL VOLTAGE INPUT, IN-LINE ON-OFF SWITCH, PROGRAMMABLE AUTO-CLEANING CYCLE.
3. UNIT SHALL BE EQUIPPED WITH PLASMA ON INDICATION LIGHT, ALARM CONTACTS, MAGNETS, AND CARBON FIBER BRUSH EMITTERS.
4. SYSTEM SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
5. ONE IONIZATION SYSTEM PER DUCTED FAN COIL UNIT.
6. ONE SELF CLEANING IONIZATION SYSTEM SHALL BE INSTALLED PER DUCTLESS MINI SPLIT UNIT.
7. SYSTEM SHALL BE USE FOR DUCTLESS MINI SPLITS.
8. SYSTEM SHALL BE EQUIPPED WITH CARBON FIBER BRUSHES AND LED OPERATION STATUS.
9. ONE IONIZATION SYSTEM PER PACKAGED UNIT(PU-1) OVER 2400 CFM.

PACKAGED ROOFTOP UNIT SCHEDULE

MARK	AIRFLOW	SUPPLY AIR CFM	MIN OUTSIDE AIR CFM	EXT. SP. IN. W.G.	NOMINAL TONS	EVAP. COIL ENTERING AIR DESIGN CONDITIONS		EVAP. COIL LEAVING AIR DESIGN CONDITIONS		SYSTEM COOLING MAX. REQUIREMENTS (MBH)		OUTSIDE AIR TEMP. CONDITIONS	GAS HEAT MBH		HEATING COIL @ OUTSIDE 25F		POWER VAC/PH	BASIS OF DESIGN: CARRIER	WEIGHT LBS	NOTES
						DB F°	WB F°	DB F°	WB F°	TOTAL	SENSIBLE	DB F°	STAGE 1 IN/OUT	STAGE 2 IN/OUT	ENT. TEMP @ STG 1	LEAV. TEMP @ STG 1				
PU-1	HORIZONTAL	7500	1500	1.0	25.0	78.6	65.6	55.0	54.0	280.0	190.0	95	178/142	220/176	61.0	83.0	208/3	48FCDN28MJM5-0A0A0	2500	1:2:3:4:5:6:7:8:9:10

1. PROVIDE FILTERS, CONDENSATE TRAP, PIPING, FLEXIBLE CONNECTIONS. PROGRAMMABLE T-STAT, AND CONDENSATE P-TRAP TO DISCHARGE INTO DRY WELL. HORIZONTAL SUPPLY AND HORIZONTAL RETURN UNIT. UNIT SHALL BE MOUNTED ON CONCRETE PAD.
2. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
3. PACKAGED UNIT SHALL HAVE HIGH STATIC MOTOR. PROVIDE MANUFACTURER'S APPROVED SOUND ATTENUATION BLANKETS FOR COMPRESSORS PROVIDE CONDENSER COIL GUARD.
4. PROVIDE MANUFACTURER'S SUPPLY AIR SMOKE DETECTOR. ELECTRICAL SHALL INTERLOCK IT WITH BUILDING FIRE ALARM SYSTEM. PROVIDE MANUFACTURER'S INTEGRAL CONDENSATE OVERFLOW SWITCH.
5. PROVIDE BUILT-IN HUMIDI-MIZER ADAPTIVE DEHUMIDIFICATION SYSTEM.
6. PROVIDE MANUFACTURER'S 2-STAGE GAS HEAT. PROVIDE FLUE DISCHARGE DEFLECTOR THAT DEFLECTS FLUE UPWARD. PROVIDE FLUE DISCHARGE HEAT SHIELD.
7. PROVIDE MOTORIZED MINIMUM OUTSIDE AIR HOOD. INTERLOCK MINIMUM OUTSIDE AIR DAMPER TO OPEN WHEN EVAPORATOR FAN IS ON.
8. 2-STAGE COOLING WITH HUMIDI-MIZER. PROVIDE 2-SPEED INDOOR FAN CONTROLLED.
9. UNDER HEATING SUPPLY CFM SHALL BE SET TO PROVIDE 100% OF AIR AT BOTH STAGES. UNDER COOLING MODE STAGE FAN TO MATCH COOLING STAGE.
10. PROVIDE GLOBAL PLASMA IONIZATION SYSTEM. REFER TO SCHEDULE FOR FURTHER INFORMATION.

AIR DEVICE SCHEDULE

MARK	SERVICE	NECK SIZE	FACE SIZE	MATERIAL	TYPE	PATTERN	MOUNTING TYPE	LAYOUT BASIS	NOTES
S1	SUPPLY	SEE PLANS	24" X 24"	STEEL	SQUARE CONC.	4-WAY	LAY-IN	TITUS TMS	1:2:4
S2	SUPPLY	SEE PLANS	NECK SIZE + 1-3/4"	ALUMINUM	FULL LOUVERED FACE	2-WAY	SURFACE	TITUS 300R	4:5:6
S3	SUPPLY	SEE PLANS	12" X 12"	STEEL	SQUARE CONC.	4-WAY	LAY-IN	TITUS TMS	1:2:4:7
R1	RETURN	SEE PLANS	NECK SIZE + 1-3/4"	ALUMINUM	FULL LOUVERED FACE	---	SURFACE	TITUS 350R	3:4:10
R2	RETURN	SEE PLANS	NECK SIZE + 1-3/4"	ALUMINUM	FULL LOUVERED FACE	---	SURFACE	TITUS 350R	1
R3	RETURN	SEE PLANS	24"X24"	ALUMINUM	EGGCRATE	---	LAY-IN	TITUS 50F	1:8
T1	TRANSFER	SEE PLANS	12"X12"	STEEL	ADJUSTABLE Z-BLADE LOUVER	---	SURFACE	AIR LOUVER 1900A	9
T2	TRANSFER	SEE PLANS	SEE PLANS	STEEL	FIXED BLADES	---	SURFACE	TITUS T-700	1

1. PROVIDE STANDARD WHITE FINISH.
2. INSULATE BACK OF DEVICE.
3. GRILLE SHALL BE SAME COLOR AS WALL IT IS MOUNTED ON.
4. BALANCE AIRFLOW TO QUANTITY SHOWN.
5. PROVIDE ALUMINIZED FACE OPERATED DAMPER THAT IS ACCESSIBLE FROM THE FACE OF REGISTER/DIFFUSER. SET DEFLECTORS FOR 22.5-DEGREES DEFLECTION.
6. GRILLE SHALL BE SAME COLOR AS WALL/DUCT IT IS MOUNTED ON.
7. PROVIDE MANUFACTURER'S FACE OPERATED DAMPER THAT IS ACCESSIBLE BY REMOVING THE FACE OF DIFFUSER.
8. PROVIDE FULL SIZE SHEET METAL PLENUM ON TOP OF DIFFUSER FOR DUCT CONNECTION.
9. PROVIDE A FIRE RATED DOOR LOUVER WITH SPRING LOADED FUSIBLE LINK. CONTRACTOR MAY USE TITUS T-700 DOOR LOUVER INCASE EXISTING DOOR IS NOT FIRE RATED.
10. PROVIDE MANUFACTURER'S FACE OPERATED DAMPER WHERE NOTED ON DRAWINGS.

HEAT PUMP AIR HANDLING UNIT SCHEDULE

MARK	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT. SP. IN. W.G.	EVAP. FAN HP	EVAP. COIL ENTERING AIR DESIGN CONDITIONS		EVAP. COIL LEAVING AIR DESIGN CONDITIONS		SYSTEM COOLING MAX. REQUIREMENTS (MBH)		SUPPL. HEAT KW	WEIGHT (LBS)	POWER VAC/PH	BASIS OF DESIGN CARRIER	NOTES
					DB F°	WB F°	DB F°	WB F°	TOTAL	SENSIBLE					
AH-1	1,050	120	0.60	1/2	77.1	64.3	55.0	54.0	32.8	25.5	6.8	250	208/3	FV4CNF005L00	1:2:3:4:5:6:7:8:10:11:12
AH-2	1,050	120	0.60	1/2	77.1	64.3	55.0	54.0	32.8	25.5	6.8	250	208/3	FV4CNF005L00	1:2:3:4:5:6:7:8:9:12
AH-3	700	80	0.60	1/2	77.1	64.3	55.0	54.0	21.8	17.0	6.8	250	208/3	FV4CNF003L00	1:2:3:4:5:6:7:8:9:12
AH-4	1,050	120	0.60	1/2	77.1	64.3	55.0	54.0	32.8	25.5	6.8	250	208/3	FV4CNF005L00	1:2:3:4:5:6:7:8:9:12
AH-5	1,750	210	0.60	3/4	77.2	64.4	55.0	54.0	54.0	42.7	11.3	250	208/3	FV4CNB006L00	1:2:3:4:5:6:7:8:10:11:12
AH-6	1,400	170	0.60	3/4	77.2	64.4	55.0	54.0	44.2	34.2	11.3	250	208/3	FV4CNB006L00	1:2:3:4:5:6:7:8:9:12
AH-7	1,050	120	0.60	1/2	77.1	64.3	55.0	54.0	32.8	25.5	6.8	250	208/3	FV4CNF005L00	1:2:3:4:5:6:7:8:9:12
AH-8	700	80	0.60	1/2	77.1	64.3	55.0	54.0	21.8	17.0	6.8	250	208/3	FV4CNF003L00	1:2:3:4:5:6:7:8:9:12
AH-9	1,750	210	0.60	3/4	77.2	64.4	55.0	54.0	54.0	42.7	11.3	250	208/3	FV4CNB006L00	1:2:3:4:5:6:7:8:9:12

1. UNIT AT 208/1ø AUXILIARY HEATER AT 208/3ø. UNIT SHALL HAVE SINGLE POINT CONNECTION. AIR-HANDLING UNIT WITH ECM MOTOR.
2. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
3. PROVIDE AIR FILTERS, DUCT CONNECTIONS AND VIBRATION ISOLATION. PROVIDE PROGRAMMABLE THERMOSTAT AND SUPP. ELEC. HEAT MODULE CONNECTED TO UNIT FOR SINGLE POINT OF CONNECTION.
4. PROVIDE CONDENSATE TRAP(S) AS RECOMMENDED BY MANUFACTURER AND ROUTE CONDENSATE PIPING TO OUTSIDE.
5. PROVIDE AUXILIARY DRAIN PAN UNDER THE AIR HANDLERS WITH FLOAT ACTIVATED SWITCH TO SHUT THE UNIT DOWN INCASE OF CONDENSATE OVERFLOW. REFER TO DETAIL PROVIDED.
6. PROVIDE DUCT SMOKE DETECTOR IN SUPPLY AIR DUCT OF AIR-HANDLING UNIT. PROVIDE A TEST STATION ACCESSIBLE FROM THE FLOOR FOR EACH DETECTOR.
7. FLOAT ACTIVATED CONDENSATE SWITCH SHALL BE PROVIDED AND INSTALLED BY HVAC CONTRACTOR. DUCT SMOKE DETECTORS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR AND INSTALLED BY HVAC CONTRACTOR.
8. PROVIDE COIL OUTLET SWITCH TO SHUT UNIT DOWN IN CASE OF CONDENSATE OVERFLOW. WIRE COIL OUTLET SWITCH IN SERIES WITH AUXILIARY CONDENSATE SWITCH LOCATED IN DRAIN PAN.
9. PROVIDE 24/7 365 DAY PROGRAMMABLE THERMOSTAT. PROVIDE GLOBAL PLASMA IONIZATION SYSTEM FOR FAN COIL UNIT.
10. PROVIDE ECOBEE3 THERMOSTAT WITH TWO SMART SENORES. LOCATES SENORES AND THERMOSTAT AS PER NEW WORK PLAN.
11. THERMOSTAT AND SENORES SHALL WORK TOGETHER TO GET AN AVERAGE TEMPERATURE OF OCCUPIED SPACE.
12. PROVIDE GLOBAL PLASMA IONIZATION SYSTEM FOR FAN COIL UNIT.

MECHANICAL SYMBOLS & ABBREVIATIONS LEGEND

	NEW PIPE, DUCTWORK OR EQUIPMENT
24x12 | 24x12	DUCT SIZE: FIRST DIMENSION IS SIDE DRAWN
	FLEXIBLE ROUND DUCTWORK
F | SCD | SD	FIRE DAMPER, SMOKE DAMPER, SMOKE DETECTOR
	CEILING SUPPLY DIFFUSER
	CEILING RETURN OR EXHAUST AIR
	S.A DUCT OUT OF TU BOX WITH DUCT LINER FOR THR FIRST FIVE FEET OF DUCT OUT OF TU BOX
	SIDEWALL REGISTER OR GRILLE
	CHANGE IN PIPE OR DUCT SIZE OR SHAPE
R	REFRIGERANT PIPING
D	CONDENSATE OR OTHER DRAIN PIPING
	ELBOW TURNED DOWN OR TURNED UP IN PIPING
T	THERMOSTAT, ARROW SHOWS CONTROL WIRING PATH
TC	TIME CLOCK
ø	DIAMETER
U.C.	UNDER-CUT DOOR 3/4", UNLESS OTHER SIZE NOTED
AD / ETR	INDICATES EQUIPMENT ON PLANS; TOP ITEM SHOWS TYPE OF EQUIPMENT AND BOTTOM ITEM SHOWS SPECIFIC MARK NUMBER
4 S1 8"ø / 300	ITEM IN HEXAGON SHOWS AIR DEVICE MARK NUMBER, ITEM ABOVE LINE SHOWS NECK SIZE, ITEM BELOW LINE SHOWS AIR FLOW THROUGH DEVICE, AND NUMBER IN FRONT SHOWS QUANTITY IF MORE THAN ONE
AFF	ABOVE FINISHED FLOOR
AH	AIR HANDLING UNIT
BD	BYPASS DAMPER
BTUH, MBH	BRITISH THERMAL UNITS, THOUSAND BRITISH THERMAL UNITS
CAP	CAPACITY
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CU	CONDENSING UNIT
DB, WB	DRY BULB TEMPERATURE, WET BULB TEMPERATURE
EA, EG	EXHAUST AIR, EXHAUST GRILLE
EF	EXHAUST FAN
EXT SP	EXTERNAL STATIC PRESSURE (USUALLY EXPRESSED IN INCHES OF WATER IN GAGE)
HP	HEAT PUMP UNIT
MVD, VD	MANUAL VOLUME DAMPER
OA	OUTSIDE AIR
RA, RG	RETURN AIR, RETURN GRILLE
RTU	PACKAGED ROOFTOP UNIT
PU	PACKAGED GROUND MOUNTED UNIT
VAC, PH	VOLTS ALTERNATING CURRENT, NUMBER OF PHASES
W, KW	WATTS, KILOWATTS
AD / AD	ACCESS DOOR
	RADIUS ELBOW (R=1.5)
	VANED ELBOW
MOD	MANUAL VOLUME DAMPER (MVD), MOTOR OPERATED DAMPER (MOD)
	DEMOLITION
	CONNECT NEW TO EXISTING
	EXISTING TO REMAIN

AIR COOLED HEATPUMP UNIT SCHEDULE

MARK	AHU SERVED	HEAT PUMP HEATING CAP (MBH)	SEER2	HSPF2	NOM. CAP.	REFRIG	OA TEMP SUMMER (DB)	OA TEMP WINTER (DB)	WEIGHT (LBS)	POWER VAC/PH	BASIS OF DESIGN CARRIER	NOTES
HP-1	AH-1	23.8	17.0	8.1	3.0	R410A	96	23	350	208/1	25TPA736A003	1:2:3:4:5:6
HP-2	AH-2	23.8	17.0	8.1	3.0	R410A	96	23	350	208/1	25TPA736A003	1:2:3:4:5:6
HP-3	AH-3	15.8	16.0	8.1	2.0	R410A	96	23	350	208/1	25TPA724A003	1:2:3:4:5:6
HP-4	AH-4	23.8	17.0	8.1	3.0	R410A	96	23	350	208/1	25TPA736A003	1:2:3:4:5:6
HP-5	AH-5	54.0	17.0	8.1	5.0	R410A	96	23	350	208/1	25TPA760A003	1:2:3:4:5:6
HP-6	AH-6	44.0	17.0	8.1	4.0	R410A	96	23	350	208/1	25TPA748A003	1:2:3:4:5:6
HP-7	AH-7	23.8	17.0	8.1	3.0	R410A	96	23	350	208/1	25TPA736A003	1:2:3:4:5:6
HP-8	AH-8	15.8	16.0	8.1	2.0	R410A	96	23	350	208/1	25TPA724A003	1:2:3:4:5:6
HP-9	AH-9	54.0	17.0	8.1	5.0	R410A	96	23	350	208/1	25TPA760A003	1:2:3:4:5:6

1. PROVIDE WITH DEFROST CONTROLS, LOW AMBIENT HEAD PRESSURE CONTROLS, AND ANTI-SHORT CYCLE TIMER. PROVIDE COIL GUARD.
2. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
3. PROVIDE LIQUID LINE SOLENOID, CRANKCASE HEATER, TXV, START CAPACITOR AND RELAY AS RECOMMENDED BY MANUFACTURER FOR LONG LINE APPLICATIONS.
4. PROVIDE MOUNTING PAD AS PER DETAIL PROVIDED.
5. 2-STAGE COMPRESSOR UNIT.
6. PROVIDE LONG LINE ACCESSORIES PER NOTE 3 WHERE REFRIGERANT PIPE LENGTHS EXCEEDS 80-EQUIVLENT FEET.

MINI SPLIT SYSTEM SCHEDULE

OUTDOOR UNIT MARK	INDOOR UNIT MARK	MIN COOLING MBH	MIN HEATING MBH @ 47F	SUPPLY AIR CFM	POWER VAC/PH	SEER	HSPF	CARRIER MODEL #		SERVES	NOTES
								OUTDOOR	INDOOR		
HPU-1	ACU-1	17.5	18.0	680	208/1	19.5	9.6	38MAQB18---3	40MAQB18B---3	A35 SERVER	1:2:3:4:5:6:7:8:9:10
HPU-2	ACU-2	17.5	18.0	680	208/1	19.5	9.6	38MAQB18---3	40MAQB18B---3	A34 LOW VOLT	1:2:3:4:5:6:7:8:9:10

1. VERIFY ELECTRICAL POWER REQUIREMENTS WITH ELECTRICAL PLANS WHICH TAKES PRECEDENCE OVER THIS INFORMATION.
2. ROUTE CONDENSATE AS NOTED ON PLANS. COORDINATE WITH PLUMBING.
3. CONDENSATE DRAIN SHALL BE PVC.
4. CONTRACTOR MUST COORDINATE EXACT LOCATION OF DRAIN IN THE FIELD WITH PLUMBING CONTRACTOR. MECHANICAL MUST ROUTE CONDENSATE TO APPROPRIATE LOCATION OF DISPOSAL.
5. PROVIDE DISCONNECT AND ELECTRICAL CONNTECTION TO OUTDOOR UNIT PER MANUFACTURER'S INSTRUCTIONS.
6. PROVIDE MANUFACTURER'S WIRED REMOTE CONTROLLER KSACN0501AAA.
7. PROVIDE RECTOR SEAL SS610E CONDENSATE OVERFLOW SWITCH TO SHUT UNIT DOWN IN CASE OF CONDENSATE OVERFLOW.
8. MINI SPLIT SYSTEM MOUNTED ON WALL (SEE PLANS). PROVIDE MANUFACTURER'S WIRED THERMOSTAT.
9. PROVIDE FLOAT ACTIVATED CONDENSATE PUMP TO PUMP CONDENSATE DOWN TO DRAIN WHERE REQUIRED. PUMP SHALL BE INTEGRAL TO THE UNIT CABINET.

FAN SCHEDULE

MARK	CFM	EXT. SP IN W.G.	DRIVE TYPE	MOTOR WATTS	MAX. SONES	POWER/ PHASE	SERVES	BASIS OF DESIGN	NOTES
EF-1	70	0.25	DIRECT	20.0	1.8	115/1	A08 WOMEN TOILET	GREENHECK SP-B90	1:2:3:5
EF-2	70	0.25	DIRECT	20.0	1.8	115/1	A07 MEN TOILET	GREENHECK SP-B90	1:2:3:5
EF-3	150	0.30	DIRECT	128.0	3.6	115/1	TRANSFORMER ROOM	GREENHECK SP-B150	1:2:3:6
EF-4	70	0.25	DIRECT	20.0	1.8	115/1	A12 WOMEN TOILET	GREENHECK SP-B90	1:2:3:5
EF-5	70	0.25	DIRECT	20.0	1.8	115/1	A13 MEN TOILET	GREENHECK SP-B90	1:2:3:5
EF-6	70	0.25	DIRECT	20.0	1.8	115/1	A14 UNISEX TOILET	GREENHECK SP-B90	1:2:3:5
EF-7	100	0.25	DIRECT	128.0	1.0	115/1	A20 WOMEN	GREENHECK SP-B150	1:2:3:4
EF-8	100	0.25	DIRECT	128.0	1.0	115/1	A21 MEN	GREENHECK SP-B150	1:2:3:4
EF-9	150	0.30	DIRECT	128.0	3.6	115/1	A36 ELEC.	GREENHECK SP-B150	1:2:3:6
EF-10	70	0.25	DIRECT	20.0	1.8	115/1	C01 UNISEX TOILET	GREENHECK SP-B90	1:2:3:5
EF-11	70	0.25	DIRECT	20.0	1.8	115/1	C02 UNISEX TOILET	GREENHECK SP-B90	1:2:3:5
EF-12	150	0.30	DIRECT	128.0	3.6	115/1	A06 MAIN DIST PANEL	GREENHECK SP-B150	1:2:3:6
EF-13	150	0.30	DIRECT	128.0	3.6	115/1	B03 ELEC ROOM	GREENHECK SP-B150	1:2:3:6
EF-14	150	0.30	DIRECT	128.0	3.6	115/1	B05 ICE ROOM	GREENHECK SP-B150	1:2:3:6
EF-15	150	0.30	DIRECT	128.0	3.6	115/1	B10 CHAIR	GREENHECK SP-B150	1:2:3:6
EF-16	150	0.30	DIRECT	128.0	3.6	115/1	B11 CHAIR	GREENHECK SP-B150	1:2:3:6
EF-17	70	0.25	DIRECT	20.0	1.8	115/1	B02 JAN CLOSET	GREENHECK SP-B90	1:2:3:7

1. CEILING MOUNTED CENTRIFUGAL FAN. PROVIDE FACTORY SUPPLIED DISCONNECT SWITCH, BACKDRAFT DAMPER, VIBRATION ISOLATION, FAN SPEED CONTROLLER, GRILLE AND MOTOR WITH THERMAL OVERLOAD.
2. PROVIDE ROUND DUCT CONNECTION.
3. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION. FAN SHALL BE ENERGY STAR RATED. ALL DUCTWORK FOR FAN SHALL BE SHEET METAL.
4. FAN SHALL BE CONTROLLED BY A 24/7 365 DAY TIME CLOCK LOCATED IN A16 RECEPTION. ELECTRICAL SHALL PROVIDE TIME CLOCK.
5. FAN SHALL BE INTERLOCKED WITH LIGHTS OF THE BATHROOM FAN SERVES.
6. FAN SHALL BE CONTROLLED BY A LINE VOLTAGE THERMOSTAT LOCATED IN ROOM FAN SERVES. THERMOSTAT SHALL BE PROVIDED BY MECHANICAL.
7. FAN SHALL BE CONTROLLED BY A SWITCH LOCATED IN ROOM FAN SERVES.

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PHASE 1

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www.totalengineers.com

Client: sunbelt BUILDERS 10841 HWY 8 COVINGTON GA 0014 1 770 788 0 1 770 788 046

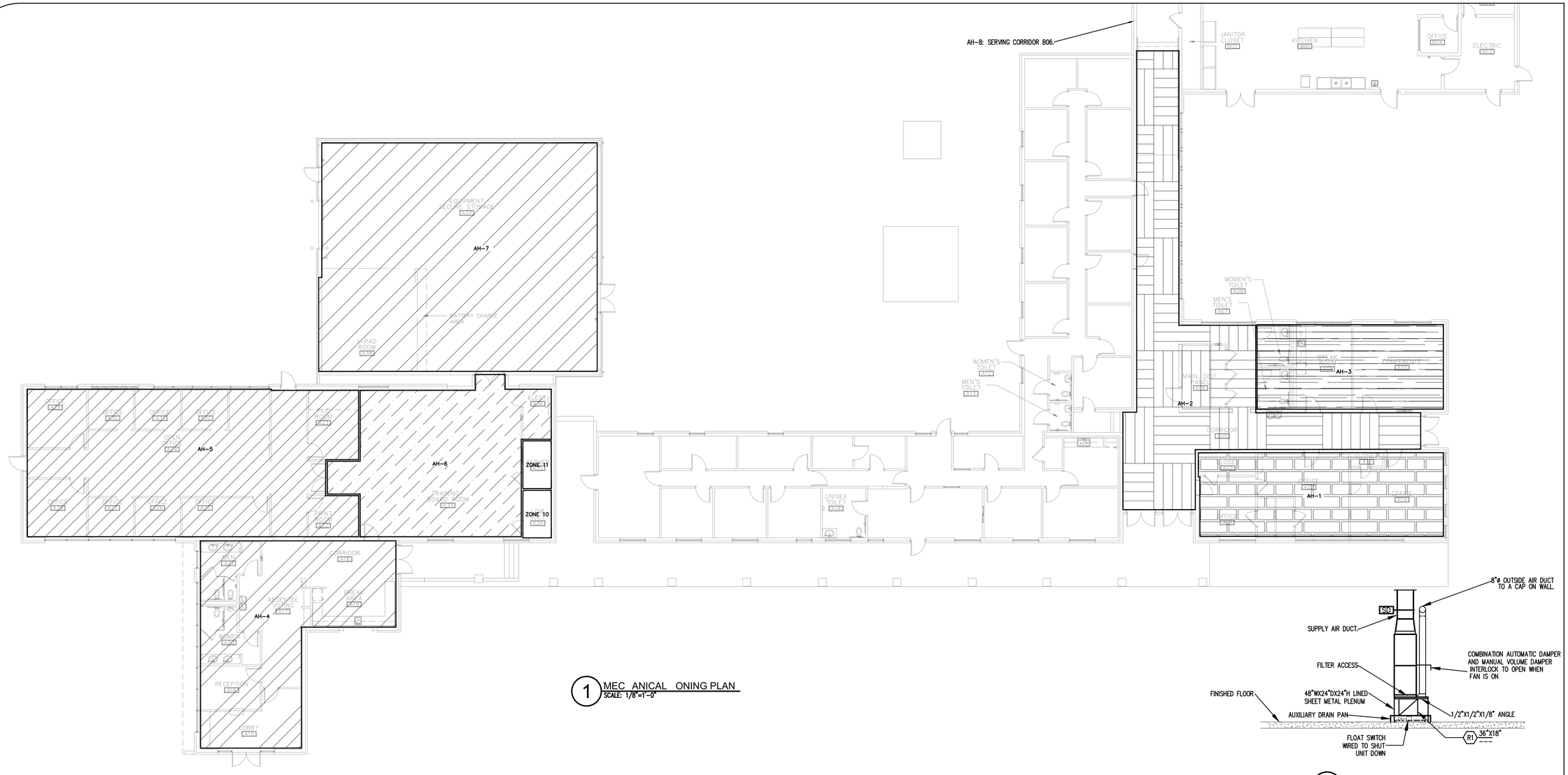
Project: R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Issue Date:	Initial:	Dwg. Revision Description:

Project No.:
Drwg. Date: 04/15/24
Drwg. Revision:
Drawn By: JWK & KMP
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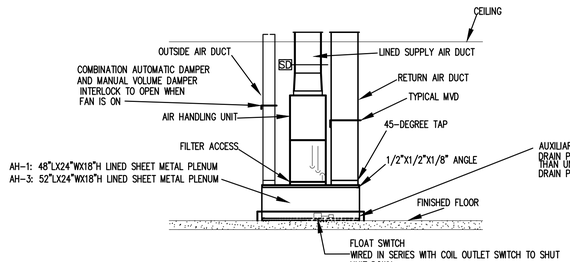
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Sheet No.: M-0.2

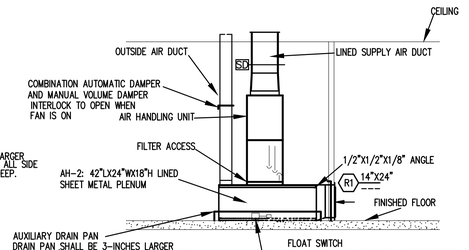


1 MEC ANICAL ONING PLAN
SCALE: 1/8"=1'-0"

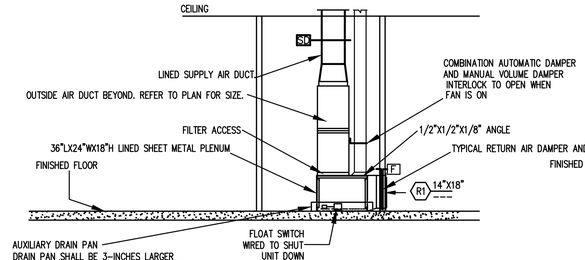
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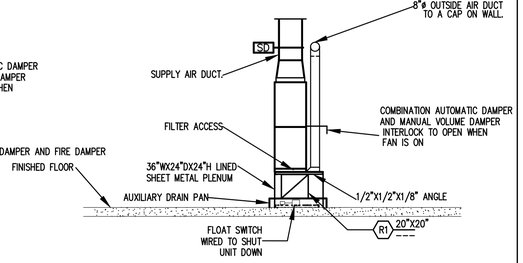
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A - - RONT VIEW DETAIL
SCALE: N.T.S.



A - - DETAIL
SCALE: N.T.S.



A - - RONT VIEW DETAIL
SCALE: N.T.S.

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PHASE 1

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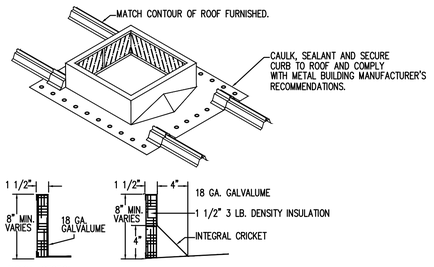
Project:
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Issue Date:	Initial:	Drwg. Revision Description:

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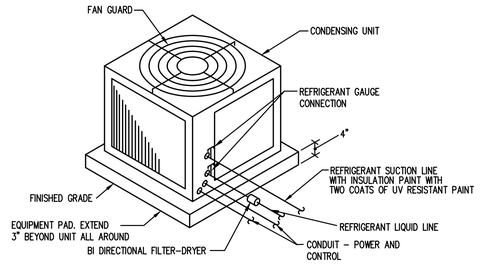
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MECHANICAL DETAILS

Sheet No.:
M-0.3



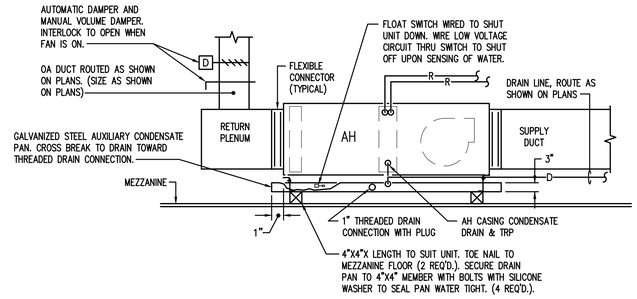
NOTE: FABRICATE ROOF CURB TO BE COMPATIBLE WITH SHAPE OF ROOF PANELS
THYCURB METAL BUILDING CURB
FOR PRE-ENGINEERED METAL BUILDINGS

1 METAL ROO CURB DETAIL
SCALE: N.T.S.

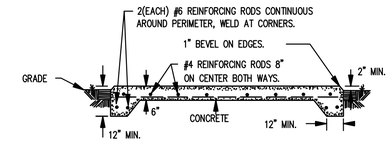


NOTE: 1) THIS DETAIL IS FOR HEAT PUMP UNIT 5 TONS AND UNDER
2) PROVIDE 4"X4"WELDED WIRE MESH REINFORCING AT CENTER LINE FOR THE CONCRETE PAD.
3) PAD MAY BE PREFABRICATED DIVERSITECH ULTRALITE EQUIPMENT PAD OR EQUIVALENT.

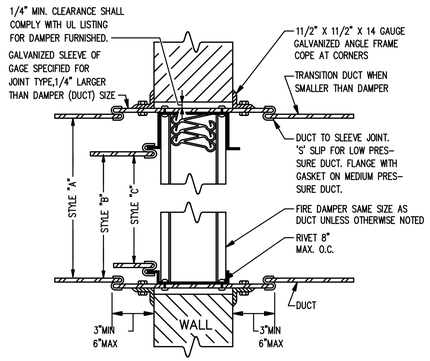
AIRCOOLED CONDENSING UNIT SLAB MOUNTED
SCALE: N.T.S.



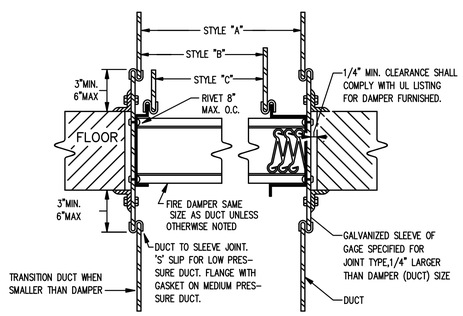
A U ON ME ANINE WIT AU ILIARY CONDENSATE PAN
SCALE: N.T.S.



E TERIOR BASE OR GROUND MOUNTEE PACKAGED UNIT DETAIL
SCALE: N.T.S.



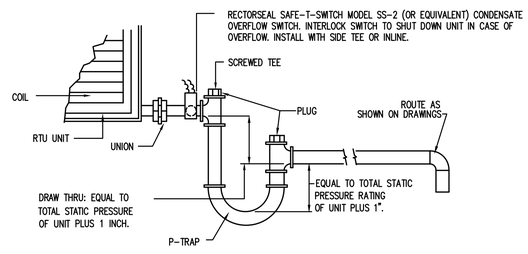
VERTICAL FIRE DAMPER



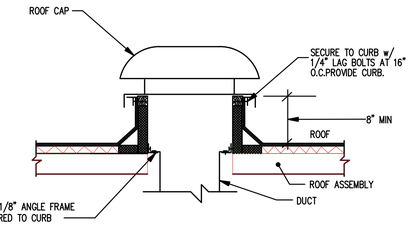
HORIZONTAL FIRE DAMPER

ALL FIRE DAMPERS ON THE PROJECT SHALL BE STYLE 'A' TYPE FIRE DAMPERS UNLESS OTHERWISE NOTED. DAMPERS LOCATED IN MEDIUM OR HIGH PRESSURE DUCTWORK SHALL BE STYLE 'C' FIRE DAMPERS. WHERE DAMPERS ARE INSTALLED IN DRYWALL PARTITION, STUD FRAMING SHALL BE PROVIDED ON ALL FOUR SIDES ON DAMPER.

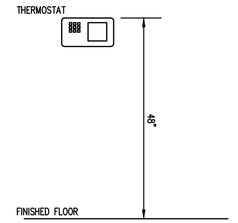
IRE DAMPER DETAIL
SCALE: N.T.S.



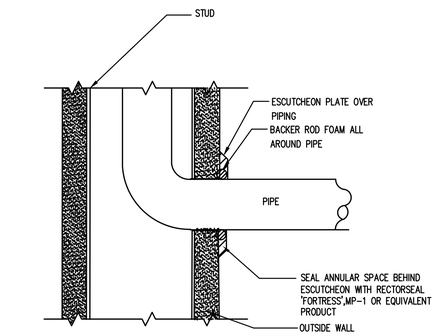
CONDENSATE DRAIN DETAIL
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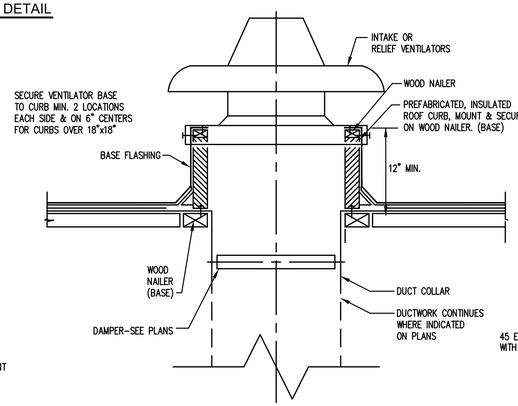
ROO CAP DETAIL
SCALE: N.T.S.



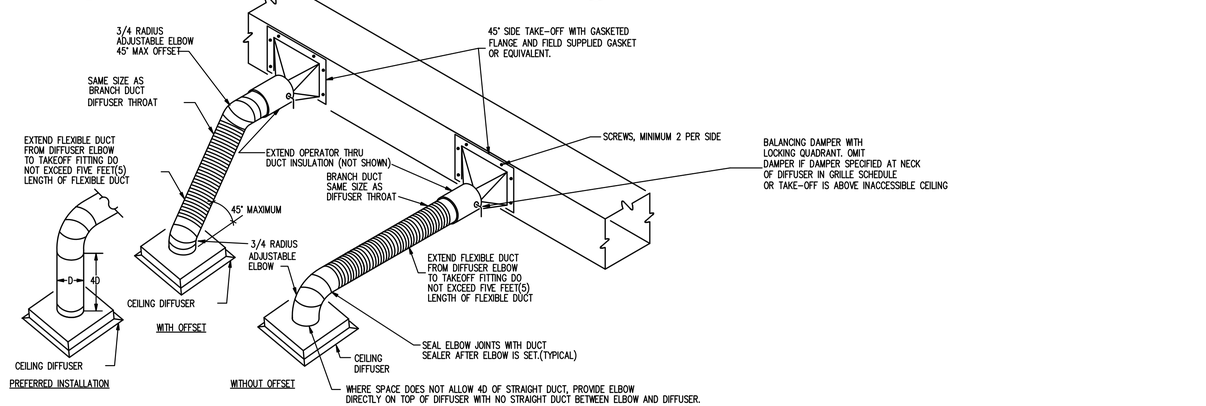
T-STAT DETAIL
SCALE: N.T.S.

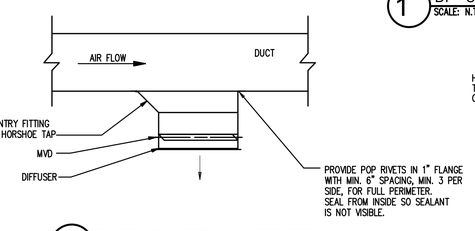


CONDENSATE PIPE SLEEVE T ROUG WALL DETAIL
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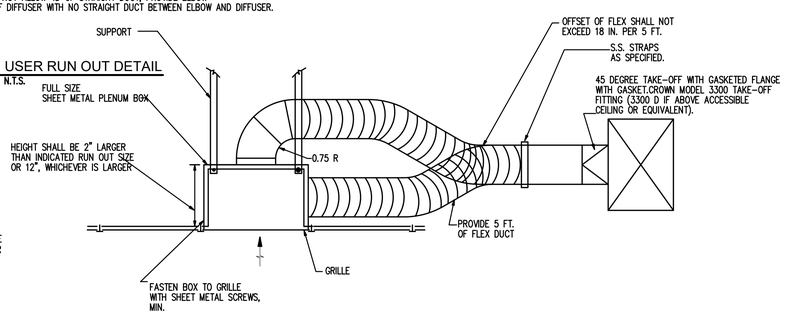
ROO INTAKE VENTILATOR DETAIL
SCALE: N.T.S.





DUCT MOUNTED DI USER DETAIL
SCALE: N.T.S.

1 DI USER RUN OUT DETAIL
SCALE: N.T.S.



1 TYPICAL GRILLE WIT LINED PLENUM DETAIL
SCALE: N.T.S.

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PHASE 1

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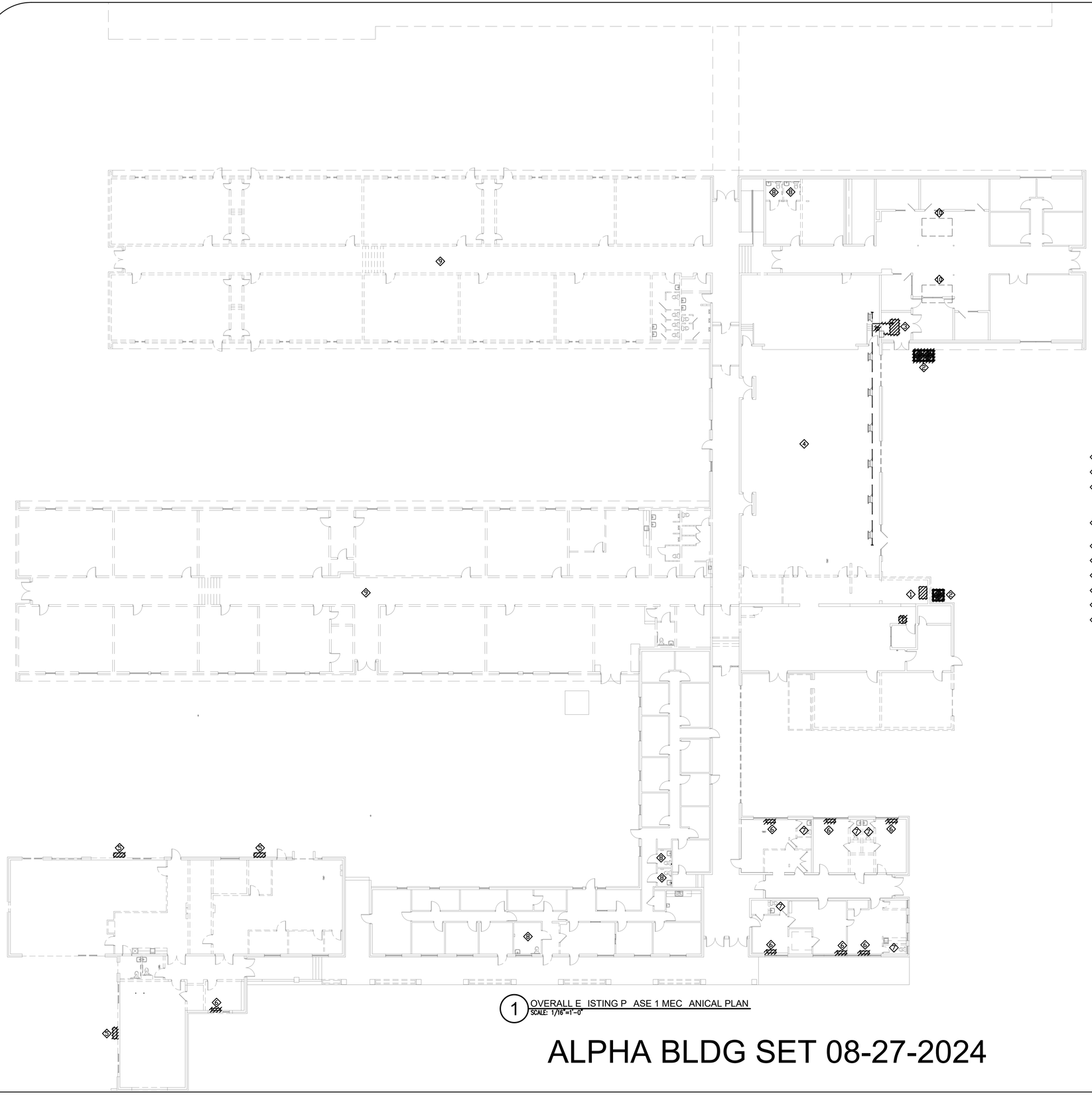
Project: R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
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Project No.:
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Drawn By: JWK & KMP
Checked By: KMP
File Name:

Sheet Title: *MECHANICAL DETAILS*

Sheet No.: M-0.4



1 OVERALL E ISTING P ASE 1 MEC ANICAL PLAN
SCALE: 1/16"=1'-0"

GENERAL DEMOLITION NOTES

A) DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL PROXIMITY OF EQUIPMENT, PIPES, DUCTWORK ETC., ARE NOT TO BE SCALED. ALL DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR AT BUILDING SITE.

B) THE DEMOLITION PLANS HAVE BEEN PREPARED TO ASSIST THE CONTRACTOR IN DETERMINING THE SCOPE OF DEMOLITION WORK AND SHOULD NOT BE CONSTRUED TO BE ALL OF DEMOLITION REQUIRED. THE CONTRACTOR SHALL VISIT JOB SITE (AFTER CAREFULLY REVIEWING THE CONTRACT DOCUMENTS) AND DETERMINE EXACT AREAS AND QUANTITIES OF EXISTING MATERIALS TO BE REMOVED TO ACCOMPLISH NEW CONSTRUCTION.

C) WHERE THE DOCUMENTS INDICATE EQUIPMENT TO BE REMOVED OR DEMOLISHED. CONTRACTOR SHALL REMOVE ALL ASSOCIATED MATERIALS INCLUDING SUPPORT, HANGERS, AND ASSOCIATED ACCESSORIES.

D) CONTRACTOR SHALL DISPOSE OF ANY MATERIAL TO BE DISCARDED IN ACCORDANCE WITH ALL LAWS AND REGULATIONS.

E) IF CONTRACTOR'S OBSERVATIONS REVEAL THE PRESENCE OF ASBESTOS IN HVAC DUCTWORK, EQUIPMENT, AND INSULATION WHICH MUST BE DISTURBED DURING THE COURSE OF THIS WORK, CONTRACTOR MUST FOLLOW ALL LAWS AND REGULATIONS APPLICABLE TO REMOVAL OF ASBESTOS MATERIAL TO REMOVE IT.

F) UNUSED SLEEVES LEFT OPEN BY REMOVAL OF PIPING SHALL BE CUT FLUSH WITH THE FINISHED SLAB OR WALL, FILLED WITH NON-SHRINKING GROUT AND/OR FIRE RATED FOAM FLUSH WITH BOTH SIDES OF SLAB OR WALL TO MAINTAIN SLAB OR WALL FIRE RATING.

G) ALL EXISTING EQUIPMENT REMOVED OR DEMOLISHED SHALL BE A PROPERTY OF THE CONTRACTOR, UNLESS OTHERWISE NOTED AND SHALL BE REMOVED FROM THE FACILITY AS REQUIRED BY CODES AND REGULATIONS.

LINE LEGEND	
	EXISTING TO REMAIN
	CONNECT TO EXISTING

KEY NOTES(THIS SHEET ONLY):

1. REMOVE EXISTING AIR-HANDLING UNIT WITH ALL ITS DUCTWORK CONTROLS AND ACCESSORIES.
2. REMOVE EXISTING CONDENSING UNIT WILL ALL ITS ACCESSORIES AND CONTROLS.
3. REMOVE AIR HANDLING UNIT WITH ALL ITS ACCESSORIES AND CONTROLS. REMOVE ALL SUPPLY AIR DUCTWORK LOCATED WITHIN MECHANICAL ROOM. REFER TO A NEW WORK PLAN FOR CONNECTION POINT OF SUPPLY AIR DUCTWORK. REMOVE RETURN AIR DUCTWORK UNTIL THE RETURN AIR PLENUM BEHIND GRILL.CONNECT NEW RETURN AIR DUCTWORK TO EXISTING RETURN AIR GRILL WITHIN MECHANICAL ROOM.
4. CONTRACTOR SHALL CLEAN EXISTING DUCTWORK, AND GRILLS LOCATED INSIDE ACTIVITY ROOM. REPAIR ANY APPARENT DAMAGES TO EXISTING DUCTWORK SYSTEM.
5. REMOVE EXISTING WALL MOUNTED PACKED UNIT WITH ALL ITS ACCESSORIES, DUCTWORK AND CONTROLS.
6. REMOVE PTAC UNIT WITH ALL ITS ACCESSORIES AND CONTROLS.
7. REMOVE EXHAUST FAN, DUCTWROK ACCESSORIES AND CONTROLS IN BATHROOM.
8. REMOVE EXHAUST FAN SERVING BATHROOM. CONNECT NEW EXHAUST FAN TO EXISTING EXHAUST DUCT TO OUTSIDE.
9. REMOVE ALL MECHANICAL EQUIPMENT, ACCESSORIES, DUCTWORK AND CONTROL LOCATED WITHIN THIS WING.
10. EXISTING PACKAGED UNIT SERVING CASA AREA SHALL REMAIN AS IS. CONTRACTOR SHALL PROVIDE A REGULAR MAINTANCE WORK TO THE UNIT. CHECK REFRIGERANT CHANGE, CLEAN COILS AND MOTORS.

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PHASE 1

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8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

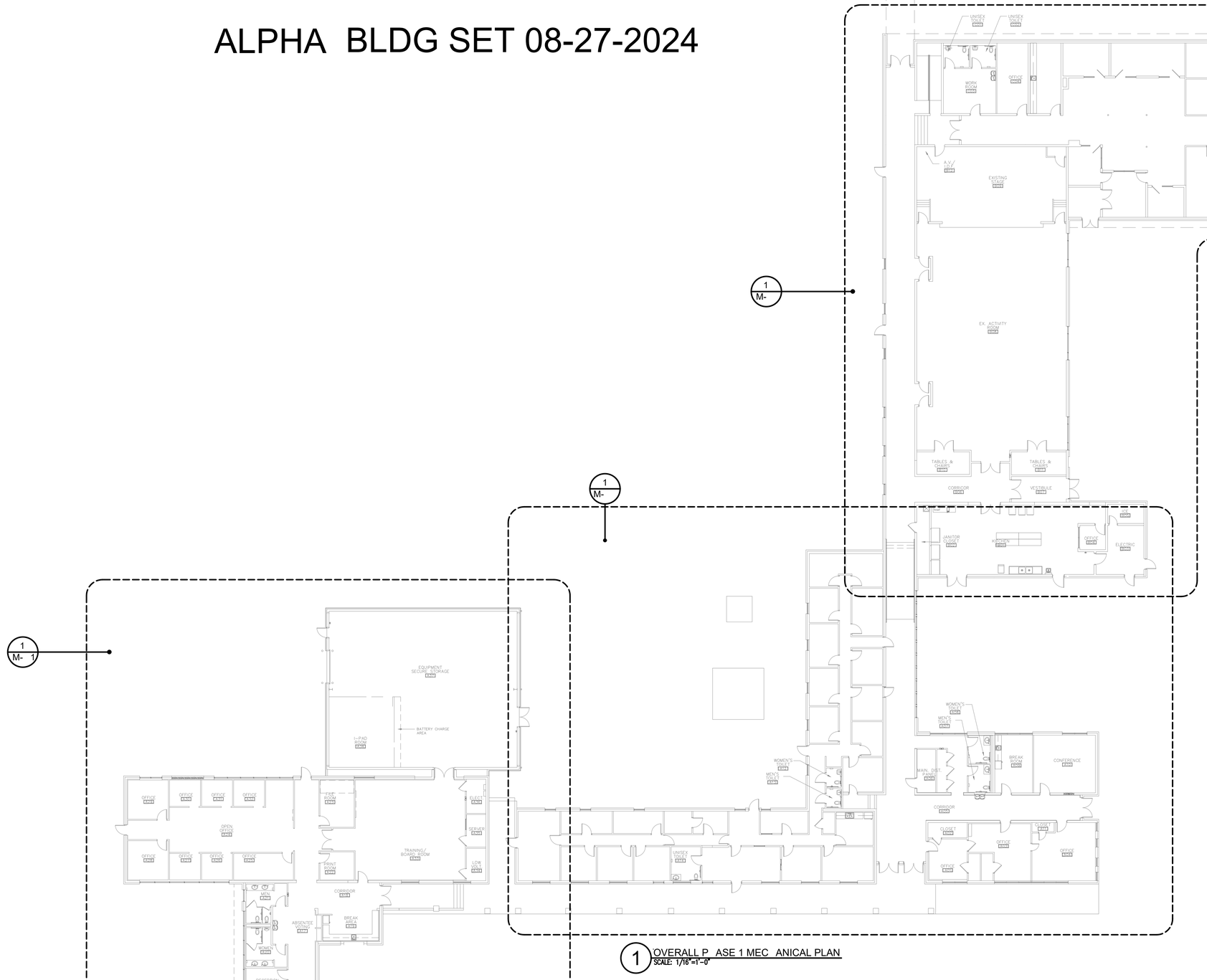
Issue Date:	Initial:	Drwg. Revision Description:

Project No.:
Drwg. Date: 04/15/24
Drwg. Revision:
Drawn By: JWK & KMP
Checked By: KMP
File Name:

Sheet Title:
OVERALL EXISTING MECHANICAL PLAN

Sheet No.:
M-1.0

ALPHA BLDG SET 08-27-2024



1 OVERALL P ASE 1 MEC ANICAL PLAN
SCALE: 1/16"=1'-0"

PHASE 1

Seal:
GEORGIA REGISTERED PROFESSIONAL ENGINEER KRUNAL M PATEL

TOTAL ENGINEERS
169 New Street, Macon, GA 31201
(478)741-4632 - T.E. project # 23-101
www.totalengineers.com

Client:
sunbelt BUILDERS™
10841 HWY 8 COVINGTON GA 30014 | 770 788 0 1 770 788 046

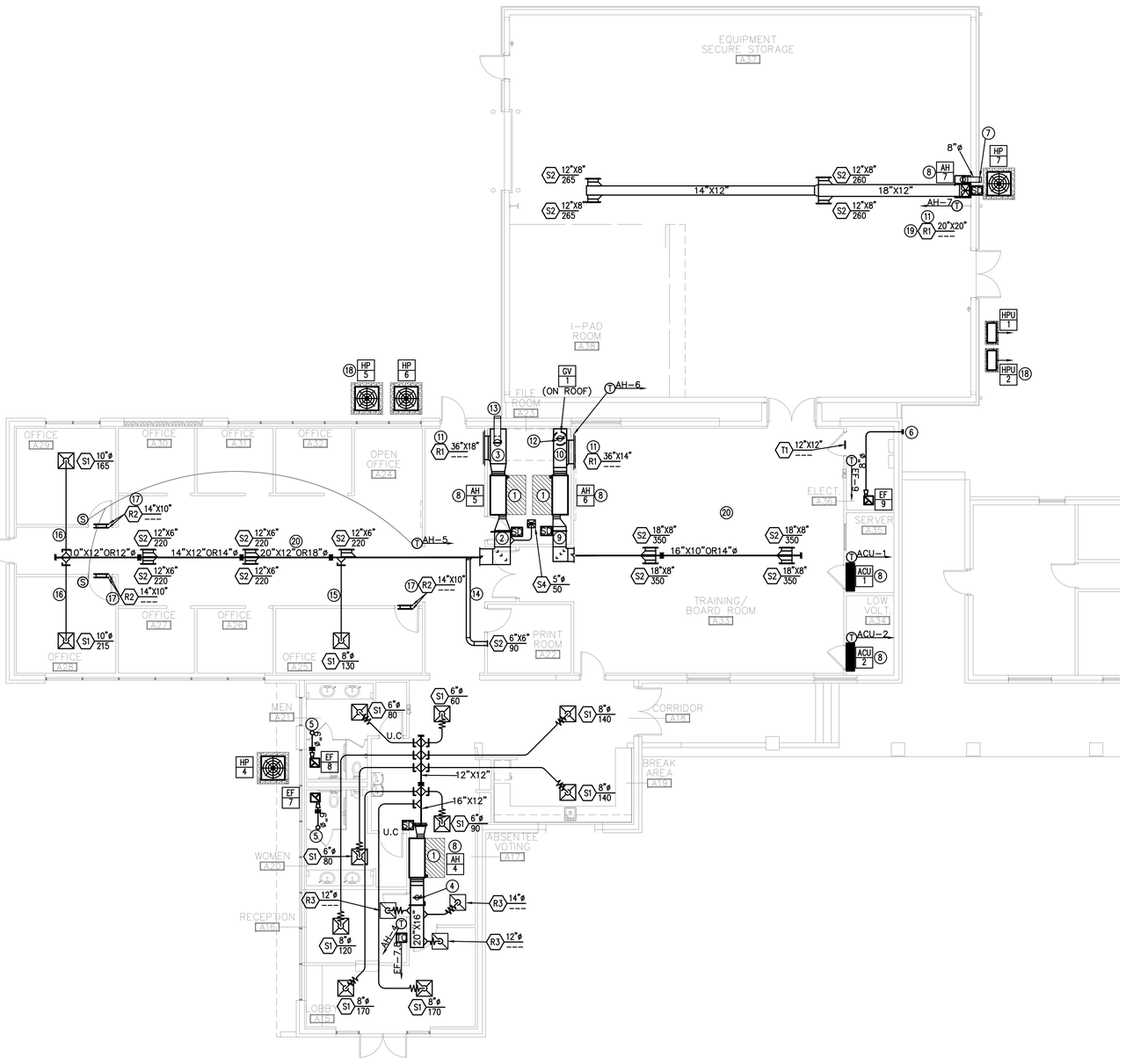
Project:
R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Issue Date:	Initial:	Drwg. Revision Description:

Project No.:
Drwg. Date: 04/15/24
Drwg. Revision:
Drawn By: JWK & KMP
Checked By: KMP
File Name:

Sheet Title:
OVERALL MECHANICAL PLAN

Sheet No.:
M-2.0



1 ENLARGED MEC ANICAL PLAN
SCALE: 1/8"=1'-0"

KEY NOTES(THIS SHEET ONLY):

1. UNIT ACCESS SPACE.
2. 24"X14" RECTANGULAR DUCTWORK OR 20"ø SPIRAL ROUND DUCTWORK.
3. 24"X20" RETURN AIR DUCT.
4. 7"ø OUTSIDE AIR DUCT UP TO 7"ø OUT SIDE AIR CAP ON ROOF.
5. 6"ø EXHAUST AIR DUCT UP TO A CAP ON ROOF.
6. 8"ø EXHAUST AIR WALL CAP.
7. 8"ø OUTSIDE AIR WALL CAP.
8. ROUTE CONDENSATE OUTSIDE WITH REFRIGERANT PIPE. ROUTE PIPE TO 8-INCHES AFF. PROVIDE 45-DEGREE ELBOW AT DISCHARGE TO GUIDE CONDENSATE AWAY FROM EXTERIOR WALL. PROVIDE SPLASH BLOCK AT DISCHARGE.
9. 20"X12" RECTANGULAR DUCTWORK OR 18"ø SPIRAL ROUND DUCTWORK.
10. 20"X16" RETURN AIR DUCT.
11. PROVIDE MANUFACTURER'S FACE OPERATED DAMPER.
12. 8"ø OUTSIDE AIR DUCT UP TO GV-1 ON ROOF.
13. 10"ø OUTSIDE AIR WALL CAP.
14. 6"X6" RECTANGULAR OR 6"ø ROUND SPIRAL DUCTWORK. TRANSITION TO RECTANGULAR AT DIFFUSER NECK.
15. 8"X6" RECTANGULAR OR 8"ø ROUND SPIRAL DUCTWORK. TRANSITION TO RECTANGULAR AT DIFFUSER NECK.
16. 10"X8" RECTANGULAR OR 10"ø ROUND SPIRAL DUCTWORK. TRANSITION TO RECTANGULAR AT DIFFUSER NECK.
17. BOTTOM OF GRILL AT TOP OF A DOOR.
18. ROUTE REFRIGERANT PIPES TO RESPECTIVE AIR-HANDLING UNIT LOCATED INSIDE BUILDING. ROUTE AND SIZE PER MANUFACTURER'S INSTRUCTIONS. TYPICAL FOR ALL HEAT PUMP CONDENSING UNITS.
19. GRILL LOCATED AT PLENUM.
20. ALL VISIBLE DUCTWORK AND GRILL SHALL BE PAINTED PER OWNER/CONTRACTOR INSTRUCTIONS. TYPICAL FOR ALL DUCTWORK THROUGH OUT THIS SIDE OF BUILDING.

ALPHA BLDG SET 08-27-2024

PHASE 1

Seal: GEORGIA REGISTERED PROFESSIONAL ENGINEER KRUNAL M PATEL

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169 New Street, Macon, GA 31201
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Client: sunbelt BUILDERS
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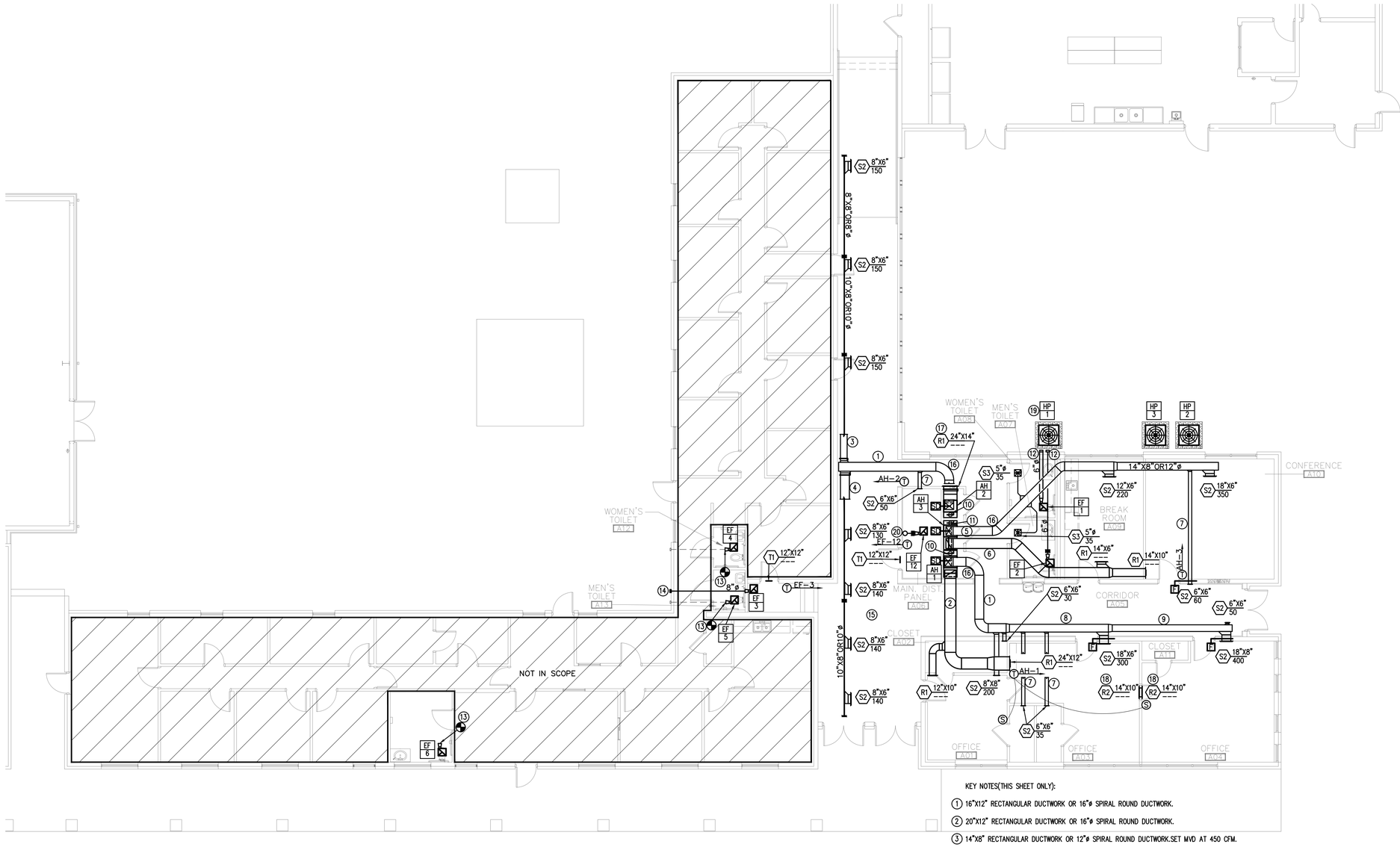
Project: R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Issue Date:	Initial:	Drwg. Revision Description:

Project No.:
Drwg. Date: 04/15/24
Drwg. Revision:
Drawn By: JWK & KMP
Checked By: KMP
File Name:

Sheet Title: *ENLARGED MECHANICAL PLAN*

Sheet No.: M-2.1



1 ENLARGED MEC ANICAL PLAN
SCALE: 1/8"=1'-0"

KEY NOTES(THIS SHEET ONLY):

1. 16"X12" RECTANGULAR DUCTWORK OR 16"ø SPIRAL ROUND DUCTWORK.
2. 20"X12" RECTANGULAR DUCTWORK OR 16"ø SPIRAL ROUND DUCTWORK.
3. 14"X8" RECTANGULAR DUCTWORK OR 12"ø SPIRAL ROUND DUCTWORK.SET MVD AT 450 CFM.
4. 16"X8" RECTANGULAR DUCTWORK OR 14"ø SPIRAL ROUND DUCTWORK.SET MVD AT 550 CFM.
5. 16"X10" RECTANGULAR DUCTWORK OR 14"ø SPIRAL ROUND DUCTWORK.
6. 18"X10" RECTANGULAR DUCTWORK OR 14"ø SPIRAL ROUND DUCTWORK.
7. 6"X6" RECTANGULAR OR 6"ø ROUND SPIRAL DUCTWORK. TRANSITION TO RECTANGULAR AT DIFFUSER NECK.
8. 14"X12" RECTANGULAR DUCTWORK OR 14"ø SPIRAL ROUND DUCTWORK.
9. 12"X10" RECTANGULAR DUCTWORK OR 12"ø SPIRAL ROUND DUCTWORK.
10. 7"ø OUTSIDE AIR DUCT UP TO 7"ø OUT SIDE AIR CAP ON ROOF.
11. 6"ø OUTSIDE AIR DUCT UP TO 6"ø OUT SIDE AIR CAP ON ROOF.
12. 6"ø EXHAUST AIR WALL CAP.
13. REMOVE EXISTING EXHAUST FAN. INSTALL NEW EXHAUST FAN. CONNECT NEW EXHAUST FAN TO EXISTING DUCTWORK. CONTRACTOR SHALL PROVIDE NEW 6"ø DUCTWORK AND A 6"ø WALL CAP TO OUTSIDE AT THE BACK OF THE BUILDING INCASE EXISTING EXHAUST FAN IS EXHAUST FAN IS EXHAUSTING AIR INTO ATTIC.
14. 8"ø EXHAUST AIR WALL CAP.
15. ALL DUCTWORK SHALL BE HARD SHEET METAL TO AVOID FIRE DAMPER PER FIRE DAMPER EXEMPTION DETAIL PROVIDED. ALL VISIBLE DUCTWORK AND GRILL SHALL BE PAINTED PER OWNER/CONTRACTOR INSTRUCTIONS. TYPICAL FOR ALL DUCTWORK THROUGH OUT THIS SIDE OF BUILDING.
16. FIRST 90-DEGREE SUPPLY AIR DUCTWORK ELBOW OUT OF AIR-HANDLING UNIT SHALL BE INTERNALLY LINED ELBOW.
17. PROVIDE MANUFACTURER'S FACE OPERATED MANUAL VOLUME DAMPER.
18. BOTTOM OF GRILL AT TOP OF DOOR.
19. ROUTE REFRIGERANT PIPES TO RESPECTIVE AIR-HANDLING UNIT LOCATED INSIDE BUILDING. ROUTE AND SIZE PER MANUFACTURER'S INSTRUCTIONS. TYPICAL FOR ALL HEAT PUMP CONDENSING UNITS.
20. EXHAUST AIR DUCT UP TO 8"ø CAP ON ROOF.

ALPHA BLDG SET 08-27-2024

PHASE 1

Seal:
GEORGIA REGISTERED PROFESSIONAL ENGINEER
KRUNAL M PATEL

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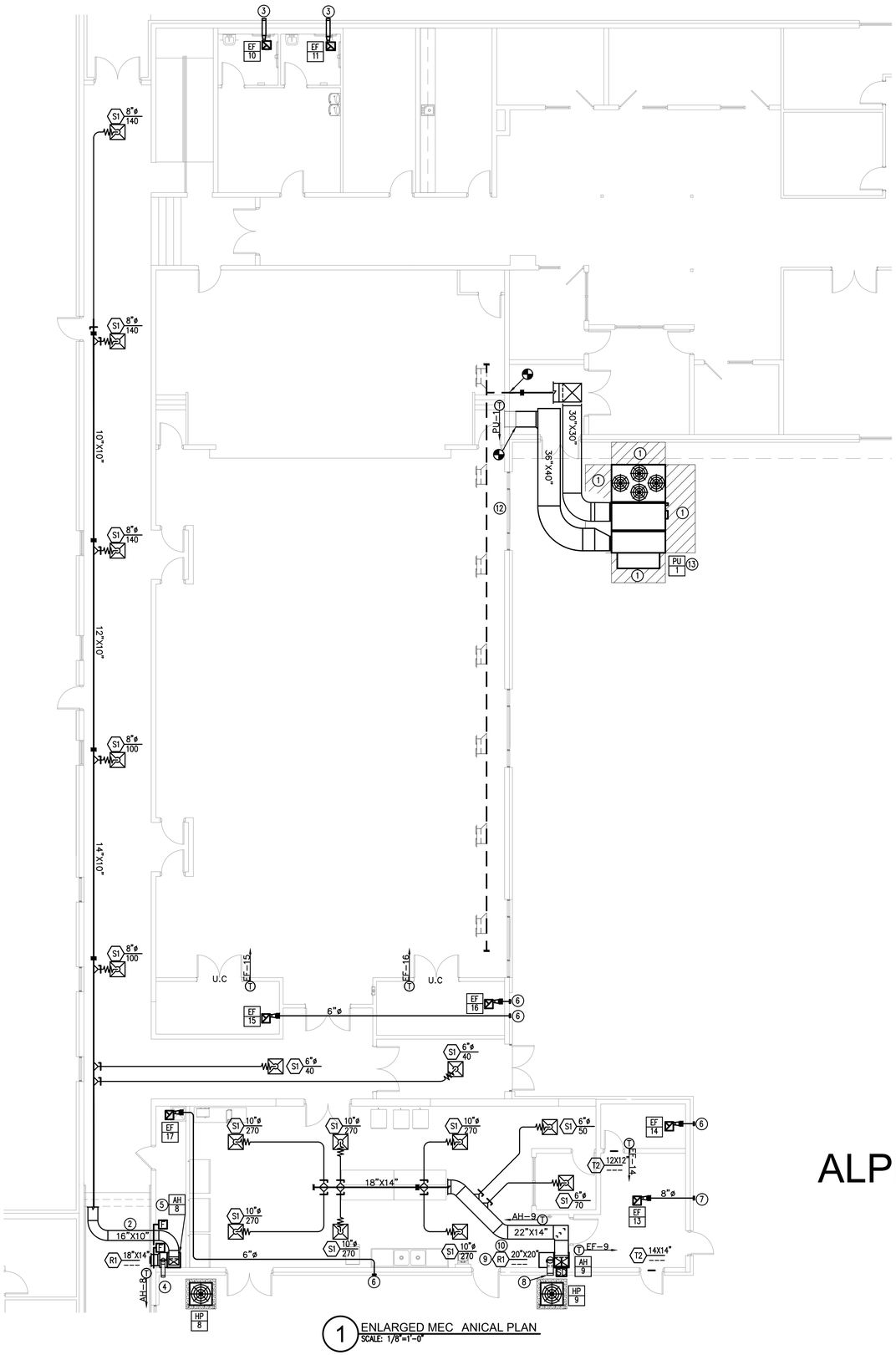
Project:
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Issue Date:	Initial:	Drwg. Revision Description:

Project No.:
Drwg. Date: 04/15/24
Drwg. Revision:
Drawn By: JWK & KMP
Checked By: KMP
File Name:

Sheet Title:
ENLARGED MECHANICAL PLAN

Sheet No.:
M-2.2



1 ENLARGED MEC ANICAL PLAN
SCALE: 1/8"=1'-0"

KEY NOTES(THIS SHEET ONLY):

1. TYPICAL UNIT ACCESS SPACE.
2. 16"X10" RECTANGULAR DUCTWORK OR 14"ø SPIRAL ROUND DUCTWORK.
3. 6"ø EXHAUST AIR DUCT TO A CAP ON WALL.
4. 6"ø OUTSIDE AIR WALL CAP.
5. ROUTE CONDENSATE OUTSIDE WITH REFRIGERANT PIPE. ROUTE PIPE TO 8-INCHES AFF. PROVIDE 45-DEGREE ELBOW AT DISCHARGE TO GUIDE CONDENSATE AWAY FROM EXTERIOR WALL. PROVIDE SPLASH BLOCK AT DISCHARGE.
6. 6"ø EXHAUST AIR WALL CAP.
7. 8"ø EXHAUST AIR WALL CAP.
8. 10"ø OUTSIDE AIR WALL CAP.
9. PROVIDE MANUFACTURER'S FACE OPERATED DAMPER.
10. GRILL LOCATED AT PLENUM.
12. COORDINATE WITH GC TO PROVIDE BLOCKING BY MEANS OF SPRENDRAL GLASS OR A BLIND AT BOTTOM HALF OF THE WINDOW TO BLOCK THE DUCTWORK VIEW FROM WITHIN COMMUNITY CENTER.
13. ECONOMIZER FOR THE UNIT HAS BEEN OMITTED DUE TO HISTORIC/EXISTING NATURE OF THE BUILDING AND SELDOM USE OF THE SPACE. EXISTING UNITS BEING REPLACED DOES NOT CONTAIN ANY AIR SIDE ECONOMIZER. PROVIDED MOTORIZED MINIMUM OUTSIDE AIR HOOD FROM THE MANUFACTURER REFER TO SCHEDULE.

ALPHA BLDG SET 08-27-2024

PHASE 1

Seal:
GEORGIA REGISTERED PROFESSIONAL ENGINEER KRUNAL M PATEL

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Project:
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Drawn By: JWK & KMP
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File Name:

Sheet Title:
ENLARGED MECHANICAL PLAN

Sheet No.:
M-2.3

PLUMBING SPECI ICATIONS

Provide all plumbing items indicated on the drawings, described herein or otherwise required for a complete and proper installation, including:
A. Plumbing fixtures, fittings and equipment.
B. Hot and cold water systems.
C. Drain waste and vent piping systems.
D. Indirect waste piping, including all valves, traps, piping and accessories for all equipment. Size per equipment requirements.

Comply with all applicable codes, standards and ordinances, including requirements of the Georgia State Minimum Standard Plumbing Code (2018 International Plumbing Code with all Georgia State Amendments), Georgia State Minimum Standard Energy Code (2015 International Energy Conservation Code with all Georgia State supplements and Amendments), and the DOJ 2010 ADA Standards for Accessible Design with Georgia Amendments of Rule 120-3-20.

The contractor should not attempt to precisely scale dimensions from these drawings to obtain construction dimensions and clearance. The contractor shall verify all actual dimensions and clearances. Although these plans are diagrammatic in nature, they shall be followed as closely as site conditions, new construction, and work by other trades shall permit. Deviations from these drawings, which are required to conform to the available space or to actual building construction, shall be made at no additional cost to the owner.

The submission of a bid or proposal will be construed as evidence that the contractor has familiarized himself with the plans and building site. Claims made subsequent to the proposal for materials and/or labor due to difficulties encountered will not be recognized unless these difficulties could not have been foreseen, even though proper examination had been made.

Fabrication or ordering of any material or equipment prior to verification of site conditions shall be done at the contractor's risk.

All equipment and material shall be new and of first quality. Equipment and material shall be the same or equal to the basis of design listed on these drawings.

Coordinate with all trades and verify all equipment rough-in items and locations with the equipment supplier or contractor. All re-work and corrections required due to lack of coordination shall be the contractor's responsibility, and done at no cost to the owner.

Submit shop drawings and material data submittals to the engineer for approval before installation. No substitutions shall be allowed without prior approval by the engineer. Product data for piping, insulation, valves, specialties and all fixtures and equipment scheduled and specified here. For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.

All equipment and flue materials shall be U.L. listed.

Installation shall comply with manufacturer requirements including all clearances recommended for proper operation of service. All serviceable parts shall be readily accessible.

Below ground sanitary drain and vent piping shall be solid-wall ASTM D2665 schedule 40 PVC. Install underground, PVC plastic drainage piping according to ASTM D2321. Above ground sanitary drain and vent piping shall be cellular-core ASTM F891 schedule 40 PVC. Install aboveground PVC piping according to ASTM D 2665. All aboveground piping shall be adequately supported. Sanitary drain and vent piping shall have PVC Socket Fittings (ASTM D 2665, made to ASTM D 3311, drain, waste, and vent patterns and to fit Schedule 40 pipe). Slope at 1/8 inch per foot continuously toward public sewer.

Insulate aboveground floor drains, traps, and sanitary drain piping within 10 feet of drain receiving condensate and equipment drain water below 60° with 1" thick type i performed glass-fiber pipe insulation, 1-1/2" cellular glass, or 1" flexible elestomeric.

All above ground domestic water distribution piping shall be ASTM D 2846, SDR11, schedule 40 CPVC with socket fittings. All piping shall be adequately supported. Disinfect all domestic water piping after installation. All underground domestic water distribution piping 1" and smaller shall be ASTM D 876 & ASTM F 877 PEX with no fittings underground. All underground domestic water distribution piping 1-1/4" and larger shall be ASTM D 1785 schedule 40 PVC with ASTM D 2466 PVC socket fittings.

DOMESTIC WATER PIPING CLEANING

A. Clean and disinfect potable domestic water piping as follows:
   1. Purge new piping and parts of existing piping that have been altered, extended, or repaired before using.
   2. Use purging and disinfecting procedures prescribed by authorities having jurisdiction; if methods are not prescribed, use procedures described in either AWWA C651 or AWWA C652 or follow procedures described below:
      a. Flush piping system with clean, potable water until dirty water does not appear at outlets.
      b. Fill and isolate system according to either of the following:
         1) Fill system or part thereof with water/chlorine solution with at least 50 ppm (50 mg/L) of chlorine. Isolate with valves and allow to stand for 24 hours.
         2) Fill system or part thereof with water/chlorine solution with at least 200 ppm (200 mg/L) of chlorine. Isolate and allow to stand for three hours.
      c. Flush system with clean, potable water until no chlorine is in water coming from system after the standing time.
      d. Repeat procedures if biological examination shows contamination.
      e. Submit water samples in sterile bottles to authorities having jurisdiction.
B. Prepare and submit reports of purging and disinfecting activities. Include copies of water-sample approvals from authorities having jurisdiction.
C. Clean interior of domestic water piping system. Remove dirt and debris as work progresses.

Domestic water piping shall be insulated with Owens Corning type ASJ/SSL-II heavy density fiber glass with all service jacket. Insulation shall have a flame spread rating not to exceed 25 and a smoke density not to exceed 50 when tested in accordance with U.B.C. standard 42-1. Provide mastic on all joints and exposed ends of insulation. Insulate domestic Cold water piping in unconditioned spaces such as exterior corridors, attic, basements, etc with 1/2" thick insulation for piping 1-1/4" & smaller and 1" thick insulation for piping 1-1/2" & larger. Insulate all domestic Hot water supply and return piping with 1" thick insulation for piping 1-1/4" & smaller and 1-1/2" thick insulation for piping 1-1/2" & larger.

Above ground natural gas piping shall be ASTM A53; Type E or S; Grade B; Schedule 40; black steel with malleable iron threaded fitting per ASME 16.3 Class 150. Flexible connectors shall comply be ANSI Z21.24 of copper alloy. Gas stops shall have bronze body with AGA stamp and bronze plug with lever handle. Valves shall be ASME B16.33 with IAS-listed bronze body. Coordinate connection of gas service and installation of meter with gas utility company. All piping shall be adequately supported. Prime & paint all exposed outdoor piping. Line gas pressure regulators shall comply with ANSI Z21.80. Appliance gas pressure regulators shall comply with ANSI Z21.18. Provide vent limiting device for regulators located indoors. Provide vent protector device for regulators located outdoors.

Underground natural gas piping shall be ASTM D2513 PE pipe and fittings joined by heat fusion; service-line risers with tracer wire terminated in an accessible location. PE Fittings shall be ASTM D 2683, socket-fusion type or ASTM D 3261, butt-fusion type with dimensions matching PE pipe. PE transition fittings shall be factory-fabricated fittings with PE pipe complying with ASTM D 2513, SDR 11; and steel pipe complying with ASTM A 53/A 53M, black steel, Schedule 40, Type E or S, Grade B. Install underground PE natural-gas piping according to ASTM D 2774. Use Factory fabricated and leak tested service-line risers. Buried underground gas piping at least 36 inches below finished grade. Underground natural gas piping shall be installed with detectable warning tape on underground gas piping. Install tape directly above underground gas piping. Located tape 12 inches below finished grade, except 6 inches below subgrade under pavements and slabs.

Heat tracing: Self-regulating, parallel-resistance heating cables shall Comply with IEEE 515.1. Heating Element shall be pair of parallel No. 16 or No. 18 AWG, tinned or nickel-coated, stranded copper bus wires embedded in crosslinked conductive polymer core, which varies heat output in response to temperature along its length. Terminate with waterproof, factory-assembled, nonheating leads with connectors at one end, and seal the opposite end watertight. Cable shall be capable of crossing over itself once without overheating. Flame-retardant polyolefin electrical insulating jacket. Tinned-copper or Stainless-steel braid cable cover. 3 W/ft Maximum Heat Output. Refer to electrical for voltage. Pipe-Mounted control thermostats for Freeze Protection. Install electric heating cables after piping has been tested and before insulation is installed. Install electric heating cables according to IEEE 515.1. Install warning tape on piping insulation where piping is equipped with electric heating cables.

HW & CW Valves: Use pipe size valves, as shown below:
A. Ball: Watts LFFBV-3C.
B. Check: Watts #600 or #601S.

Fixture tailpieces, wall escutcheon, and traps for lavatories and sinks shall be brass tubing, semi-cast, or cast iron: All brass tubing shall be 17 gage, chrome plated. Exception: If the fixture tailpieces and traps are located in cabinets, the tailpiece & trap shall be PVC. Grid drains for public lavatories. Basket strainers for break room sinks.

Water Hammer Arresters shall comply with standard ASSE 1010, metal bellows type or copper piston type.

Urinal Supports shall be type I, urinal carrier with fixture support plates and coupling with seal and fixture bolts and hardware matching fixture for wall-mounting, urinal-type fixture. Include steel uprights with feet. For accessible-fixture support include rectangular steel uprights. Lavatory Supports shall be type II, lavatory carrier with concealed arms and tie rod for wall-mounting, lavatory-type fixture. Include steel uprights with feet. For accessible-fixture support include rectangular steel uprights. Plate type wall hangers for water coolers.

Lavatory/ Sink supply fittings: NSF Standard: Comply with NSF/ANSI 61 Annex G, "Drinking Water System Components – Health Effects," for supply-fitting materials that will be in contact with potable water. Standard: ASME A112.18.1/CSA B125.1. Supply Stops: Chrome-plated-brass, one-quarter-turn, ball-type valve with inlet connection matching supply piping. Wheel handle operation. Risers: Chrome-plated, soft-copper flexible tube for exposed applications and ASME A112.18.6, braided- or corrugated-stainless-steel, flexible hose for conceal behind cabinet applications.

Provide ADA Supply and Drain Protective Shielding Guards on ADA fixtures that piping is exposed. Supply and Drain Protective Shielding Guards shall comply with ICC A117.1 and Americans with Disabilities Act (ADA) requirements. Manufactured plastic wraps shall cover hot and cold water supplies, trap, and drain piping.

All pipe hangers, clamps and channels shall be adequately sized to carry pipe loads and prevent sagging.

All other materials not specifically described but required for a complete and proper installation of work of this section, shall be new, first quality of their respective kinds, and as selected by the contractor subject to acceptance by the engineer.

Lay out the plumbing system in careful coordination with the drawings, determining proper elevations for all components of the system and using only the minimum number of bends to produce a satisfactorily functioning system. Follow the general layout shown on the drawings in all cases except where other work may interfere. Unless shown otherwise, lay out all pipes to fall within partition, wall floor, or roof cavities, and to not require furring other than as shown on the drawings.

Do not cut into or reduce the size of any load-carrying member without the prior approval of the architect. Install all pipes to clear all beams and obstructions.

Extend all plumbing vents above roof to parapet height.

Permanently close and make weatherproof any openings or penetrations of the building envelope made for plumbing systems. All wall and floor penetrations shall be sleeved. All exterior wall or foundation wall penetrations shall use a mechanical seal.

Coordinate all roof penetrations with architectural plans and building and roofing trades.

Provide shut-off balls valves and unions at all water connections to equipment and appliances.

Isolate all dissimilar metals with "EPCO" dielectric unions, except for brass or bronze valves with steel pipe.

Protect the potable water supply against backflow and siphonage from equipment, fixtures, etc., using approved backflow and anti-siphon devices.

Thoroughly clean all piping and equipment. Removing all dirt, rust, oil, and plaster.

Test Sanitary drainage piping by plugging all openings and filling with water to a height equal to a 10 foot head. Allow to stand one hour or longer as required. Repair leaking joints and then re-test.

No work shall be covered until it has been inspected and accepted by the local authority and the engineer.

Domestic water piping tests: Fill domestic water piping. Check components to determine that they are not air bound and that piping is full of water. Test for leaks and defects in new piping and parts of existing piping that have been altered, extended, or repaired. Leave new, altered, extended, or replaced domestic water piping uncovered and unconceded until it has been tested and approved. Expose work that was covered or concealed before it was tested. Cap and subject piping to static water pressure of 50 psig (345 kPa) above operating pressure, without exceeding pressure rating of piping system materials. Isolate test source and allow it to stand for four hours. Leaks and loss in test pressure constitute defects that must be repaired. Repair leaks and defects with new materials, and retest piping or portion thereof until satisfactory results are obtained.

The entire system shall be warranted for a period of one (1) year beginning with Owner's acceptance of the work. All labor and materials necessary to repair or replace the system, or portions thereof, during that time shall be warranted for a period of one (1) year from the repair or replacement.

Install piping in concealed locations, unless otherwise indicated and except in equipment rooms, and service areas. Install piping indicated to be exposed and piping in equipment rooms and service areas at right angles or parallel to building walls. Diagonal runs are prohibited unless specifically indicated otherwise. Install piping above accessible ceilings to allow sufficient space for ceiling panel removal. Install piping to permit valve servicing. Install piping at indicated slopes. Install piping free of sags and bends. Install fittings for changes in direction and branch connections. Install piping to allow application of insulation. Select system components with pressure rating equal to or greater than system operating pressure. Install escutcheons for penetrations of walls, ceilings, and floors. Verify final equipment locations for roughing-in.

Confirm that millwork is constructed with adequate provision for the installation of counter top lavatories and sinks.

Seal fixtures to wall and floor surfaces with sealant, color to match fixture.

All vents thru roof (VTR) shall be offset a minimum of 10'-0" from all outside air intakes.

Provide Plastic Pipe Markers on all aboveground plumbing piping that Comply with ASME A13.1. Minimum information indicating flow direction arrow and identification of fluid being conveyed. Install labeling on pipe at intervals of not more than 20 feet and at least once in each room.

Provide a complete through penetration fire stopping assembly for fire resistance rated wall assemblies. The through penetration assembly must be listed by an approved third-party test agency (UL), and include the entire listed assembly with all notations. Refer to architectural drawings for fire wall locations.

Approved manufactures: (Items submitted shall be approved by architect and engineer. Architect and engineer reserve the right to reject any item substituted for basis of design item for any reason.)

China Fixtures: American Standard, Kohler, Toto, Zurn, Sloan
Faucets: Delta, T&S Brass, Chicago Faucets, Zurn, Kohler, Grohe, Moen, Speakman, Symmons
Supplies & Traps: Engineered Brass CO., Mcguire, Charlotte Pipe, Brasscraft, IPS, Watts, Zurn
Flush Valves: Sloan, Delany, Zurn, American Standard
Floor Drains & Cleanouts: Zurn, Jay R Smith, Proset, Watts, Mifab, Wade, Josam, Sioux Chief, Oatey
Water Heaters: A.O. Smith, Lochinar, Bradford White, State, Rheem
Tankless Electric Water Heaters: A.O. Smith, Rheem, EEmax, Chronomite
Toilet Seats: Bemis, Centoco, Church Seats, Olsonite, Beneke, Zurn, Mainline
Stainless Steel Sinks: Dayton, Elkay, Just, Kohler, Moen, Sterling, Franke
ADA Protective Shielding Pipe Covers: Engineered Brass, McGuire, Plumberex, TRUEBRO, Zurn, Oatey
Fixture Supports: MIFAB, Jay R. Smith, Wade, Watts, Zurn
Wall Hydrants/ Hose Bibbs: MIFAB, Jay R. Smith, Wade, Watts, Woodford, Zurn
Water Hammer Arresters: AMTROL, Josam, MIFAB, PPP, Sioux Chief, Jay R. Smith, Wade, Watts, Zurn
Outlet Boxes: Acorn, IPS, Oatey
Brass Valves: American, Crane, Watts, Apollo
Water Coolers: Elkay, Oasis, Haws
Mop Sinks: Stern Williams, Acorn, Fiat

GENERAL IRE PROTECTION NOTES

Fire protection sprinkler system design is delegated to the contractor. The fire protection subcontractor is responsible for code compliance, research, design, coordination, and installation of a complete and functional hydraulically calculated sprinkler system (and standpipe system, if required) that meets the approval of and is in accordance with all applicable regulations and requirements of the following and as further specified:

Current edition of NFPA

Applicable Codes

Authorities having jurisdiction.

I TURE AND E UIPMENT SC EDULE

#	FIXTURE TYPE	WASTE		WATER SUPPLY		WATER FIX. CONN.		MANUFACTURE AND NOTES
		BELOW FLOOR	FIXTURE CONN.	COLD	HOT	COLD	HOT	
WC1	WATER CLOSET 1.28 GPF	3"	3"	1"		1"		KOHLER K-96053 WATER CLOSET. SLOAN REGAL 111 SFSM-1.28 FLUSH VALVE. BEMIS 1655SSCT SEAT.
WC2	ADA WATER CLOSET 1.28 GPF	3"	3"	1"		1"		KOHLER K-96057-B WATER CLOSET. SLOAN REGAL 111 SFSM-1.28 FLUSH VALVE. BEMIS 1655SSCT SEAT.
UR1	ADA URINAL 0.125 GPF	2"	2"	3/4"		3/4"		KOHLER K-5452-ET URINAL. SLOAN REGAL 186-0.125 FLUSH VALVE.
LAV1	ADA WALL-HUNG LAVATORY 0.5 GPM	2"	1-1/4"	1/2"	1/2"	1/2"	1/2"	KOHLER K-2005 LAVATORY. MOEN 8413F05 FAUCET.
LAV2	ADA DROP-IN LAVATORY 0.5 GPM	2"	1-1/4"	1/2"	1/2"	1/2"	1/2"	KOHLER K-2196-4-0 LAVATORY. MOEN 8413F05 FAUCET.
SNK1	ADA ONE COMPARTMENT DROP-IN BREAK ROOM SINK 1.5 GPM	2"	1-1/2"	1/2"	1/2"	1/2"	1/2"	ELKAY GE12522 SINK. MOEN 7594 FAUCET.
SNK2	ADA TWO COMPARTMENT DROP-IN BREAK ROOM SINK 1.5 GPM	2"	1-1/2"	1/2"	1/2"	1/2"	1/2"	ELKAY GE23321 SINK. MOEN 7594 FAUCET.
MOP	TERRAZZO MOP SINK	3"	3"	1/2"	1/2"	1/2"	1/2"	STERN WILLIAMS MTB-3624, T-10-VB FAUCET, T-35 HOSE & WALL HOOK, T-40 MOP HANGER, BP PANELS.
EWC	ELECTRIC WATER COOLER W/ BOTTLE FILLER	2"	1-1/4"	1/2"		1/2"		ELKAY EZS8WSLK.
HB1	EXTERIOR HOSE BIBB			3/4"		3/4"		WOODFORD 25.
HB2	INTERIOR HOSE BIBB			3/4"		3/4"		WOODFORD 84.
FD	FLOOR DRAIN WITH WATERLESS TRAP PRIMER	2"	2"					WATTS FD-190-PR-60 FLOOR DRAIN. RECTORSEAL "SURESEAL PLUS" WATERLESS TRAP PRIMER.
OB	ICE MAKER BOX WITH WATER HAMMER ARRESTOR			1/2"		1/2"		WATER TITE MB9701HA. USE GUY GRAY FRIB12ABCHA FIRE RATED BOX ON FIRE RATED WALLS. REFER TO ARCHITECTURAL PLANS FOR FIRE RATED WALLS.
FCO	FLOOR CLEANOUT	SEE DWG.	SEE DWG.					WATTS C012. PROVIDE CARPET MARKER WHEN INSTALLED UNDER CARPET.
GCO	GRADE CLEANOUT	SEE DWG.	SEE DWG.					WATTS CO-200-RX-4-60.
FS	FLOOR SINK	3"	3"					WATTS FS-740-NH-150.
HD1	HUB DRAIN WITH WATERLESS TRAP PRIMER	2"	2"					PROSET TG24HD.
HD2	HUB DRAIN	2"	2"					WATTS FD-100-DD-60.

LOW TEST
DATE: 05/08/2024 1:30 PM
LOCATION: 8134 GEIGER ST.
HYDRANT #58
STATIC: 87 PSI
RESIDUAL: 71 PSI
FLOW: 1,342 GPM
FLOW AT 20 PSI: 2,909

GENERAL PLUMBING NOTES

THE WORK INDICATED IS INTENDED TO SHOW THE GENERAL SCOPE OF DEMOLITION/NEW WORK AND IN NO WAY RELIEVES THE CONTRACTOR FROM PROVIDING ANY AND ALL WORK REQUIRED TO COMPLETE THE DEMOLITION/NEW WORK.

WHERE SURFACES ARE DAMAGED BY DEMOLITION, SHALL BE REPAIRED TO MATCH EXISTING (IN MATERIAL, SIZE, ALIGNMENT, JOINT WORK, FINISHES, COLOR, TEXTURE, QUALITY, ETC.) SUCH SURFACES IT DOES NOT INTERFERE WITH NEW WORK OF OTHER TRADES.

WATER EATER TANK SC EDULE

MARK	MANUFACTURER	MODEL NUMBER	TYPE	GALLON	ACTUVATION GPM	*ELECTRICAL				SERVES
						VOLTS	PHASE	AMPS	KW	
WH-A07	CHRONOMITE	CM-15L/277	TANKLESS ELECTRIC	N/A	0.20	277	1	15	4.150	MEN'S #A07
WH-A08	CHRONOMITE	CM-15L/277	TANKLESS ELECTRIC	N/A	0.20	277	1	15	4.150	WOMEN'S #A08
WH-A09	CHRONOMITE	CM-40L/277	TANKLESS ELECTRIC	N/A	0.20	277	1	40	11.080	BREAK AREA #A09
WH-A12	CHRONOMITE	CM-15L/277	TANKLESS ELECTRIC	N/A	0.20	277	1	15	4.150	WOMEN'S #A12
WH-A13	CHRONOMITE	CM-15L/277	TANKLESS ELECTRIC	N/A	0.20	277	1	15	4.150	MEN'S #A13
WH-A14	CHRONOMITE	CM-15L/277	TANKLESS ELECTRIC	N/A	0.20	277	1	15	4.150	MEN'S #A14
WH-A15	CHRONOMITE	CM-40L/277	TANKLESS ELECTRIC	N/A	0.20	277	1	40	11.080	BREAK AREA #A15
WH-A19	CHRONOMITE	CM-40L/277	TANKLESS ELECTRIC	N/A	0.20	277	1	40	11.080	BREAK AREA #A19
WH-A20	CHRONOMITE	CM-30L/277	TANKLESS ELECTRIC	N/A	0.20	277	1	30	8.310	MEN'S #A20
WH-A21	CHRONOMITE	CM-30L/277	TANKLESS ELECTRIC	N/A	0.20	277	1	30	8.310	WOMEN'S #A21
WH-B01	A.O. SMITH	ENT-40	ELECTRIC	40	N/A	208	1	18	4.5	WARMING KITCHEN
WH-C01	CHRONOMITE	CM-15L/208	TANKLESS ELECTRIC	N/A	0.20	208	1	15	3.120	UNISEX #C01
WH-C02	CHRONOMITE	CM-15L/208	TANKLESS ELECTRIC	N/A	0.20	208	1	15	3.120	UNISEX #C02
WH-C05	CHRONOMITE	CM-40L/208	TANKLESS ELECTRIC	N/A	0.20	208	1	40	8.320	BREAK AREA #C05

CONTRACTOR SHALL CONSULT THE ELECTRICAL DOCUMENTS FOR VOLTAGE AND PHASE.

LEGEND

	SHUTOFF VALVE		COLD WATER	(TYP)	TYPICAL	VTR	VENT THRU ROOF
	CHECK VALVE		HOT WATER	C.T.	COUNTER-TOP	AFF	ABOVE FINISHED FLOOR
	PIPE UP		HOT WATER RETURN	DN	DOWN	CW	COLD WATER
	PIPE DOWN		SEWER VENT	CONN.	CONNECTION	HW	HOT WATER
PDI-B (H)	PDI UNIT WATER HAMMER ARRESTOR		SEWER	NTS	NOT TO SCALE	B.F.F.	BELOW FINISH FLOOR
DWGS.	DRAWINGS	F	FIRE SPRINKLER	VT	VENT	FLR	FLR
GREASE	GREASE LADEN SEWER	G	GAS			FFE	FINISHED FLOOR ELEVATION
O	OVERFLOW ROOF DRAINAGE	S	STORM				

ALPHA BLDG SET 08-27-2024

PHASE 1

Seal: GEORGIA REGISTERED PROFESSIONAL ENGINEER KRUNAL M PATEL

TOTAL ENGINEERS
169 New Street, Macon, GA 31201
(478)741-4632 - T.E. project # 23-101
www.totalengineers.com

Client: sunbelt BUILDERS 10841 HWY 8 COVINGTON GA 30014 770 788 0 1 770 788 046

Project: R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Issue Date:	Initial:	Drwg. Revision Description:

Project No.:
Drwg. Date: 04/15/24
Drwg. Revision:
Drawn By: JWK & KMP
Checked By: KMP
File Name:

Sheet Title: *PLUMBING SPECIFICATIONS*

Sheet No.: P-0.1

IRE PROTECTION BASIC MATERIALS AND MET ODS
IRE PROTECTION SECTION 1 O

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Pipe, fittings, valves, and connections for combination sprinkler and standpipe systems.

1.2 REFERENCES

A. ASME B16.1 – Gray Iron Pipe Flanges and Flanged Fittings: Classes 25, 125, and 250; The American Society of Mechanical Engineers.

B. ASME B16.3 – Malleable Iron Threaded Fittings; The American Society of Mechanical Engineers.

C. ASME B16.4 – Gray Iron Threaded Fittings; The American Society of Mechanical Engineers.

D. ASME B16.5 – Pipe Flanges and Flanged Fittings; The American Society of Mechanical Engineers; (ANSI/ASME B16.5).

E. ASTM A 47/A 47M – Standard Specification for Ferritic Malleable Iron Castings.

F. ASTM A 53/A 53M – Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless.

G. ASTM A 795/A 795M – Standard Specification for Black and Hot-Dipped Zinc-Coated (Galvanized) Welded and Seamless Steel Pipe for Fire Protection Use.

H. NFPA 13 – Standard for the Installation of Sprinkler Systems; National Fire Protection Association.

I. NFPA 24 – Standard for the Installation of Private Fire Service Mains and Their Appurtenances; National Fire Protection Association.

J. NFPA 72 – National Fire Alarm Code.

K. NFPA 101 – Code for Safety to Life from Fire in Buildings and Structures.

L. 2018 International Fire Code (as adopted and amended by the Rules and Regulations of the Safety Fire Commissioner Chapter 120-3-3-04(3))

M. UL (FPED) – Fire Protection Equipment Directory; Underwriters Laboratories Inc.; current edition.

N. UL 262 – Gate Valves for Fire-Protection Service; Underwriters Laboratories Inc..

O. Chapter 120-3-3 of the Rules of the Safety Fire Commissioner.

P. Georgia State Minimum Standard Building Code (International Building Code 2018 Edition, with Georgia State Amendments). NFPA Code, where more stringent, shall take precedence.

1.3 SUBMITTALS

A. Product Data: Provide manufacturers catalogue information. Indicate valve data and ratings.

B. Shop Drawings: Indicate pipe materials used, jointing methods, supports, floor and wall penetration seals. Indicate installation, layout, weights, mounting and support details, and piping connections.

C. Project As-Built Documents: Record actual locations of components and tag numbering.

D. Operation and Maintenance Data: Include installation instructions and spare parts lists.

1.4 QUALITY ASSURANCE

A. Fire Protection

1. The Contractor expressly warrants that the company performing the installation of the fire protection systems has demonstrated proficiency in the installation, start-up and adjustment of such systems by the successful performance of work of the nature specified herein on at least 5 commercial or institutional buildings, each containing minimum of 10,000 ft2 of protected area or greater.
2. The Contractor further warrants that the aforesaid subcontractor has trained personnel, instruments, tools, and equipment to perform the installation specified.
3. The Contractor also warrants that the aforesaid installer has been in business performing services of the nature specified herein for at least five-years.
4. Provide a certificate of competency as issued by the Georgia State Fire Marshal's Office.

B. Conform to UL and FM requirements.

C. Valves: Bear UL and FM label or marking. Provide manufacturer's name and pressure rating marked on valve body.

D. Products Requiring Electrical Connection: Listed and classified as suitable for the purpose specified and indicated.

1.5 DELIVERY, STORAGE, AND PROTECTION

A. Deliver and store valves in shipping containers, with labeling in place.

B. Provide temporary protective coating on cast iron and steel valves.

C. Provide temporary end caps and closures on piping and fittings. Maintain in place until installation.

1.6 EXTRA MATERIALS

A. Provide additional materials as provided in these specifications and by NFPA.

PART 2 PRODUCTS

2.1 GENERAL SYSTEM AND PRODUCT REQUIREMENTS

A. Sprinkler Systems: Conform work to NFPA 13.

B. Standpipe and Hose Systems: Conform to NFPA 14.

C. Welding Materials and Procedures: Conform to ASME Code.

D. Building is light hazard, ordinary hazard group, and extra hazard group. Pipe sizes shall be hydraulically calculated based upon flow test to be conducted by contractor.

E. Provide hydraulic calculations over the most remote 1500 square feet providing density required for hazard as indicated in NFPA 13. Minimum discharge pressure shall be 7.0 PSI. Minimum residual pressure at city water main in the street shall be 20.0 PSI. Provide 10.0 PSI minimum safety margin in hydraulic calculations at design point. Design area reduction per NFPA 13 is not allowed.

F. Basis of design: Contractor shall perform, or have performed, at the same time, a Fire Flow and Twenty Four Hour Static Test to assure flow equals or exceeds specified basis of design flow rate prior to preparing shop drawings, installing system or performing calculations. Prepare calculations based on confirmed flow data or basis of design flow data, whichever is lowest. Flow test shall be performed in accordance with NFPA 13 and Rules and Regulations of Safety Fire Commissioner, O.C.G.A. Chapter 120-3-3. Modify flow test pressures (static and residual), if pressure recorded in 24 hour test is lower than flow test pressures for one hour duration, to lowest hour test pressure.

G. No pipe shall be routed above electrical panels and equipment as required by National Electrical Code, on control side or beneath suspended mechanical equipment except where specifically required by Code, in which case, provisions shall be made for service access.

H. Inspectors test connection(s) shall discharge to the outside of the building in location(s) acceptable to the Architect.

I. Inside auxiliary drains, if needed, shall discharge in location(s) acceptable to the Architect.Drain and test connection piping, if in finished space, shall be installed concealed.

2.2 BURIED PIPING

A. Refer to Civil plans and specifications for piping type.

2.3 ABOVE GROUND WET SYSTEM PIPING

A. Steel Pipe: ASTM A 795 Schedule 10 or ASTM A 53 Schedule 40, black. Piping 2" and smaller shall be threaded. Piping 2 1/2" and larger shall be grooved with rigid couplings.

1. Cast Iron Fittings: ASME B16.1, flanges and flanged fittings and ASME B16.4, threaded fittings.
2. Malleable Iron Fittings: ASME B16.3, threaded fittings and ASTM A 47/A 47M.
3. Mechanical Grooved Couplings: Rigid malleable iron housing clamps to engage and lock, "C" shaped elastomeric sealing gasket, steel bolts, nuts, and washers; galvanized for galvanized pipe. Reducing couplings are NOT allowed.

2.4 PIPE HANGERS AND SUPPORTS

A. Hangers for Pipe Sizes 1/2 to 1-1/2 inch: Malleable iron, adjustable swivel, split ring.

B. Hangers for Pipe Sizes 2-inches and Over: Carbon steel, adjustable, clevis.

C. Multiple or Trapeze Hangers: Steel channels with welded spacers and hanger rods.

D. Vertical Support: Steel riser clamp.

E. Floor Support: Cast iron adjustable pipe saddle, lock nut, nipple, floor flange, and concrete pier or steel support.

F. Provide support for any vertical pipe 36" in length or greater except armovers. Provide supports 12'-0" O.C. maximum or at floor levels.

G. Threaded rods shall NOT be bent. Bending is permitted only in unthreaded sections of hanger rods. Bending shall occur as close to the hanger as possible. Provide a swivel assembly if required.

2.5 GATE VALVES

A. Up to and including 2 inches:

1. Manufacturers:
   a. Nibco Scott; Product T-104-0
   b. Jenkins; Product 275U
   c. Hammond; Product 1B681
   d. Stockham; Product B-133
   e. Kennedy; Product Fig. 66
2. Bronze body, bronze trim, rising stem, handwheel, solid wedge or disc, threaded ends.

B. Over 2 inches:

1. Manufacturers:
   a. Nibco Scott; Product F-607-OTS
   b. Crane; Product 467
   c. Jenkins; Product 825-A
   d. Hammond; Product 1R1154
   e. Stockham; Product G-634
   f. Kennedy; Product Fig. 68
2. Iron body, bronze trim, rising stem pre-grooved for mounting tamper switch, handwheel, OS&Y, solid rubber covered bronze or cast iron wedge, flanged ends.

2.6 GLOBE VALVES

A. Bronze body, rubber disc, union bonnet, 174 W.W.P., threaded ends.

B. Up to and including 2 inches:

1. Manufacturers:
   a. Nibco-Scott; Product KT-65.
   b. Kennedy; Product 97SD.
   c. United; Product 125S.
   d. Fairbanks; Product 4691-3.

2.7 ANGLE VALVES

A. Bronze body, rubber disc, union bonnet, 174 non-shock cold water, threaded ends.

B. Up to and including 2 inches:

1. Manufacturers:
   a. Nibco-Scott; Product T-301-W.
   b. Kennedy; Product 985D.
   c. United; Product 126S.
   d. Fairbanks; Product 4691-3.

2.8 BUTTERFLY VALVES: Not allowed.

2.9 CHECK VALVES

A. Iron body, U.L. Listed- F.M. Approved, swing type, bronze trimmed, bronze seat and disc, flanged ends.

B. Manufacturers:

1. Jenkins; Product 629
2. Crane; Product 375
3. Stockham; Product G-939
4. Mueller; Product A-2120-6
5. Kennedy; Product #126

2.10 INDICATOR POSTS

A. Cast iron base, top section, & cap; malleable iron wrench and locking device; steel stem; cast iron coupling; bronze target holder with aluminum "shut" and "open" targets; Underwriters Laboratories listed, and Factory Mutual approved; available for varying trench depth; and with adjustable depth features.

B. Manufacturers:

1. Kennedy Fig. Series 741.
2. Nibco NIP-1.
3. Stockham G-951.
4. Mueller A-20804.

2.11 UNDERGROUND GATE VALVES

A. 2 1/2-inch and larger, iron body, non-rising stem, bronze stem, iron mounted disc with bronze rings, cast iron 2-inch square operating nut, flange, ends, AWWA spec. C-500.

B. Manufacturers:

1. Kennedy Fig. 701X.
2. Nibco F-609.
3. Stockham G-635.
4. Mueller A-2075-20.
5. M & H Fig. 3067.

PART 3 EXECUTION

3.1 PREPARATION

A. Ream pipe and tube ends. Remove burrs. Bevel plain end ferrous pipe.

B. Remove scale and foreign material, from inside and outside, before assembly.

C. Prepare piping connections to equipment with flanges or unions.

D. Storage: All piping shall be stored above ground and protected to prevent dirt and debris from entering pipe.

3.2 INSTALLATION

A. Install sprinkler system and service main piping, hangers, and supports in accordance with NFPA 13 and these specifications.

B. Install standpipe piping, hangers, and supports in accordance with NFPA 14.

C. Install post indicator valve (PIV) upstream of backflow device.

D. Route piping in orderly manner, plumb and parallel to building structure. Maintain gradient.

E. Install piping to conserve building space, to not interfere with use of space and other work.

F. Group piping whenever practical at common elevations.

G. All piping shall be installed above ceilings in a concealed manner except where no ceilings are present

H. Sleeve pipes passing through partitions, walls, and floors.

I. Install piping to allow for expansion and contraction without stressing pipe, joints, or connected equipment.

J. Reducing Tees: Weld-on threaded outlet tees and Coupolet-300 by Bonney Forge Division of Energy Products Group, Central Sprink 701, "TEE-LET" 300 by Merit Manufacturing Corp., NAP300 by North Alabama Pipe Corp., F400 by Grinnell Corp. may be used for side outlet reducing tees more than two pipe sizes smaller than main. Discs shall be retrieved and connected to pipe at point of cutting. Cutting shall comply with NFPA 13, Chapter 6.5.2.9.

K. Couplings may be used on gridded systems at only one end of each gridded branch line or on 2 1/2" or larger riser nipple to 2" or smaller branch line to facilitate connection provided that the coupling is connected to piping by a cut groove. Rolled grooves are not acceptable.

L. Pipe Hangers and Supports:

1. Install hangers to provide minimum 1/2 inch space between finished covering and adjacent work.
2. Place hangers within 12 inches of each horizontal elbow.
3. Use hangers with 1-1/2 inch minimum vertical adjustment. Design hangers for pipe movement without disengagement of supported pipe.
4. Support vertical piping at every floor. Support riser piping independently of connected horizontal piping.
5. Where several pipes can be installed in parallel and at same elevation, provide multiple or trapeze hangers.

M. Slope piping and arrange systems to drain at low points. Use eccentric reducers to maintain top of pipe level.

N. Prepare pipe, fittings, supports, and accessories for finish painting. Where pipe support members are welded to structural building framing, scrape, brush clean, and apply one coat of zinc rich primer to welding.

O. Do not penetrate building structural members unless indicated.

P. Provide sleeves when penetrating floors and walls. Seal pipe and sleeve penetrations to achieve fire resistance equivalent to fire separation required.

Q. When installing more than one piping system material, ensure system components are compatible and joined to ensure the integrity of the system. Provide necessary joining fittings. Ensure flanges, union, and couplings for servicing are consistently provided.

R. Die cut threaded joints with full cut standard taper pipe threads with red lead and linseed oil or other non-toxic joint compound applied to male threads only.

S. Install valves with stems upright or horizontal, not inverted. Remove protective coatings prior to installation.

T. Provide gate valves for shut-off or isolating service. No valve shall be installed with the centerline, if horizontal, or wheel, if vertical, more than 9'-0" AFF.

U. Provide drain valves at main shut-off valves, low points of piping and apparatus.

3.3 CLEANING AND PROTECTION

A. All materials, equipment and mechanical rooms shall be cleaned prior to the Final Inspection.

B. Wash down and scrub clean all mechanical room floors, walls, equipment bases and equipment.

C. Paint equipment where finish has been damaged requiring retouching of finish to match factory finish.

D. Chipped or scraped paint shall be retouched to match original finish.

E. All dents and sags in equipment casing shall be straightened.

F. All equipment, pipe, pipe fittings and appurtenances shall be free of rust and stains prior to substantial completion.

3.4 FINISHING EQUIPMENT AND MATERIAL

A. Use paint systems specified in Division 9 for the substrates to be finished.

B. Paint shop-primed equipment.

C. Re-install electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

D. Paint all exposed pipes, unless otherwise indicated.

E. All ferrous fasteners and hanger supports not having a corrosion resistant plated finish shall be painted to prevent rust.

F. Paint all equipment, including that which is factory-finished, exposed to weather or to view on the roof and outdoors.

G. Paint all exposed un-insulated ferrous materials.

END OF SECTION

IRE SUPPRESSION SPRINKLERS
IRE PROTECTION SECTION O

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Wet Type Sprinkler System

B. Dry-pipe sprinkler system.

C. System design, installation, and certification.

D. Fire department connections.

1.2 REFERENCES

A. NFPA 13 – Standard for the Installation of Sprinkler Systems; National Fire Protection Association.

B. NFPA 14 – Standard for the Installation of Standpipe and Hose Systems; National Fire Protection Association.

1.3 SUBMITTALS

A. Product Data: Provide data on sprinklers, valves, and specialties, including manufacturers catalog information. Submit performance ratings, rough-in details, weights, support requirements, and piping connections.

B. Shop Drawings:

1. Indicate hydraulic calculations, detailed pipe layout, hangers and supports, sprinklers, components and accessories. Indicate system controls.
2. Submit shop drawings, product data, and hydraulic calculations to Fire Marshall for approval and to Architect for review. Submit to Architect prior to submitting to Fire Marshal. Submit proof of approval to the Architect.

C. Project As-Built Documents: Record actual locations of sprinklers and deviations of piping from drawings. Indicate drain and test locations. Provide two (2) CD and three (3) paper copies of as-built drawings.

D. Manufacturer's Certificate: Certify that system has been tested and meets or exceeds specified requirements and code requirements. All certificates shall be signed by certificate holder.

E. Operation and Maintenance Data: Include components of system, servicing requirements, record drawings, inspection data, replacement part numbers and availability, and location and numbers of service depot.

1.4 QUALITY ASSURANCE

A. Maintain one copy of referenced design and installation standard on site.

B. Conform to UL requirements.

C. Equipment and Components: Provide products that bear UL label or marking.

D. Products Requiring Electrical Connection: Listed and classified by Underwriters Laboratories Inc., as suitable for the purpose specified and indicated.

1.5 DELIVERY, STORAGE, AND PROTECTION

A. Store products in shipping containers and maintain in place until installation. Provide temporary inlet and outlet caps. Maintain caps in place until installation.

B. Store piping off floor and out of elements. Provide cover for piping to prevent dirt and debris from entering piping. Piping and fittings shall be rust free when installed.

1.6 EXTRA MATERIALS

A. Provide extra sprinklers of type and size matching those installed, in quantity required by referenced NFPA design and installation standard.

B. Provide suitable wrenches for each sprinkler type.

C. Provide metal storage cabinet located at piping entrance to building.

PART 2 PRODUCTS

2.1 SPRINKLER SYSTEM REQUIREMENTS

A. Sprinkler System: Provide coverage for entire building.

B. Occupancy: comply with NFPA 13.

C. Water Supply: Contractor shall perform or have performed an NFPA-13 water flow test data and a 24 hour static pressure test. Adjust flow test to lowest pressure recorded by 24 hour test of one hour duration.

D. Interface system with building fire alarm system.

E. Provide fire department connections where indicated on FP and civil drawings.

2.2 SPRINKLERS

A. Tyco and affiliates, Automatic Sprinkler, Reliable, Viking.

B. All sprinklers installed shall be by the same manufacturer.

C. Contractor shall select temperature ratings in accordance with NFPA 13, paragraph 8.3.2.

D. Suspended Ceiling Type: Recessed pendant type with matching flush push on escutcheon plate.

1. Finish: Chrome plated.
2. Escutcheon Plate Finish: Chrome plated.
3. Quick response Glass bulb type temperature rated for specific area hazard.

E. Gypsum Board Ceiling Type: Concealed pendant type with matching push on escutcheon plate.

1. Finish: Brass.
2. Escutcheon Plate Finish: Enamel, Verify color with architect.

F. Exposed Area Type: Standard upright type.

1. Finish: Brass.
2. Fusible Link: Quick Response Fusible solder link type temperature rated for specific area hazard.

G. Sidewall Type: Standard horizontal sidewall type with matching flush push on two piece escutcheon plate.

1. Finish: Chrome plated.
2. Escutcheon Plate Finish: Chrome plated.
3. Quick Response Fusible solder link type temperature rated for specific area hazard.

H. Guards: Finish to match sprinkler finish.

2.3 PIPING SPECIALTIES

A. Dry Pipe Sprinkler Alarm Valve: Check type valve with divided seat ring, rubber faced clapper to automatically actuate water motor alarm and electric alarm, with accelerator; with test and drain valve.

B. Water Motor Alarm: Hydraulically operated impeller type alarm with aluminum alloy chrome plated gong and motor housing, nylon bearings, and inlet strainer. By same manufacturer as Alarm Valve.

C. Electric Alarm: Electrically operated chrome plated gong with pressure alarm switch.

D. Water Flow Switch: Vane type switch for mounting horizontal or vertical, with two contacts; rated 10 amp at 125 volt AC and 2.5 amp at 24 volt DC. Notifier, Simplex, Potter, Grinnell.

E. Tamper Switch: Switch designed for installation on indicator valves with cased aluminum housing with red finish. Notifier, Simplex, Potter, Grinnell.

F. Fire Department Connections: Elkhart, Croker Standard, Potter Roemer.

1. Type: Free standing type with ductile iron pedestal chrome plated finish.
2. Outlets: Two way with thread size to suit fire department hardware; threaded dust cap and chain of matching material and finish.
3. Drain: 3/4 inch automatic drip, outside.
4. Label: "Sprinkler – Fire Department Connection".

PART 3 EXECUTION

3.1 INSTALLATION

A. Install in accordance with referenced NFPA design and installation standard and these specifications.

B. Sprinklers shall be in line with and centered between down lights unless shown otherwise.

C. Install equipment in accordance with manufacturer's instructions.

D. Each floor of multi story buildings shall be zoned.

E. All dry system piping shall be galvanized down stream of dry valve.

F. Install buried shut-off valves in valve box. Provide post indicator.

G. Provide approved double detector check assembly at sprinkler system water source connection.

H. Locate fire department connection within forty (40'-0") feet of nearest fire hydrant and with sufficient clearance from walls, obstructions, or adjacent siamese connectors to allow full swing of fire department wrench handle.

I. Locate outside alarm gong on building wall at piping entrance to building.

J. Place pipe runs to minimize obstruction to other work.

K. Place piping in concealed spaces above finished ceilings.

L. Center sprinklers in two directions in ceiling tile and provide piping offsets as required.

M. Apply masking tape or paper cover to ensure concealed sprinklers, cover plates, and sprinkler escutcheons do not receive field paint finish. Remove after painting. Replace painted sprinklers.

N. Where sprinklers are required under rectangular duct, the centerline of the sprinkler shall be minimum 6" under duct

O. Install air compressor on vibration isolators.

P. Flush entire piping system of foreign matter.

Q. Hydrostatically test entire system.

R. Require test be witnessed by Fire Marshall.

S. All drain piping shall discharge to the outside 6" maximum above grade unless noted otherwise.

T. Where sprinklers are required under oval or round duct, the centerline of the sprinkler shall be under the centerline of the duct.

3.2 INTERFACE WITH OTHER PRODUCTS

A. Ensure required tamper and flow devices are installed and connected as required to fire alarm system including but not limited to Floor control valves, alarm check valve, elevator shaft isolation valve, Post Indicator Valve (PIV) and backflow device valves.

3.3 SCHEDULES

A. System Hazard Areas:

1. Office & Public Areas and similar occupancies – Light Hazard Design; 0.10 GPM/sq. ft. over the most remote 1500 square foot.
2. Building Service Areas, Electrical Equipment Rooms, General Storage Areas, Mechanical Equipment Rooms, Restaurant Service Areas, and similar occupancies – Ordinary Hazard Group 1 Design; 0.15 GPM/sq.ft. over the most remote 1500 square foot.

END OF SECTION

ALPHA BLDG SET 08-27-2024

PHASE 1

Seal: GEORGIA REGISTERED PROFESSIONAL ENGINEER KRUNAL M PATEL

TOTAL ENGINEERS
169 New Street, Macon, GA 31201
(478)741-4632 - T.E. project # 23-101
www.totalengineers.com

Client: sunbelt BUILDERS™
10841 HWY 8 COVINGTON GA 30014 | 770 788 0 1 770 788 046

Project:
R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Issue Date:	Initial:	Drwg. Revision Description:

Project No.:
Drwg. Date: 04/15/24
Drwg. Revision:
Drawn By: JWK & KMP
Checked By: KMP
File Name:

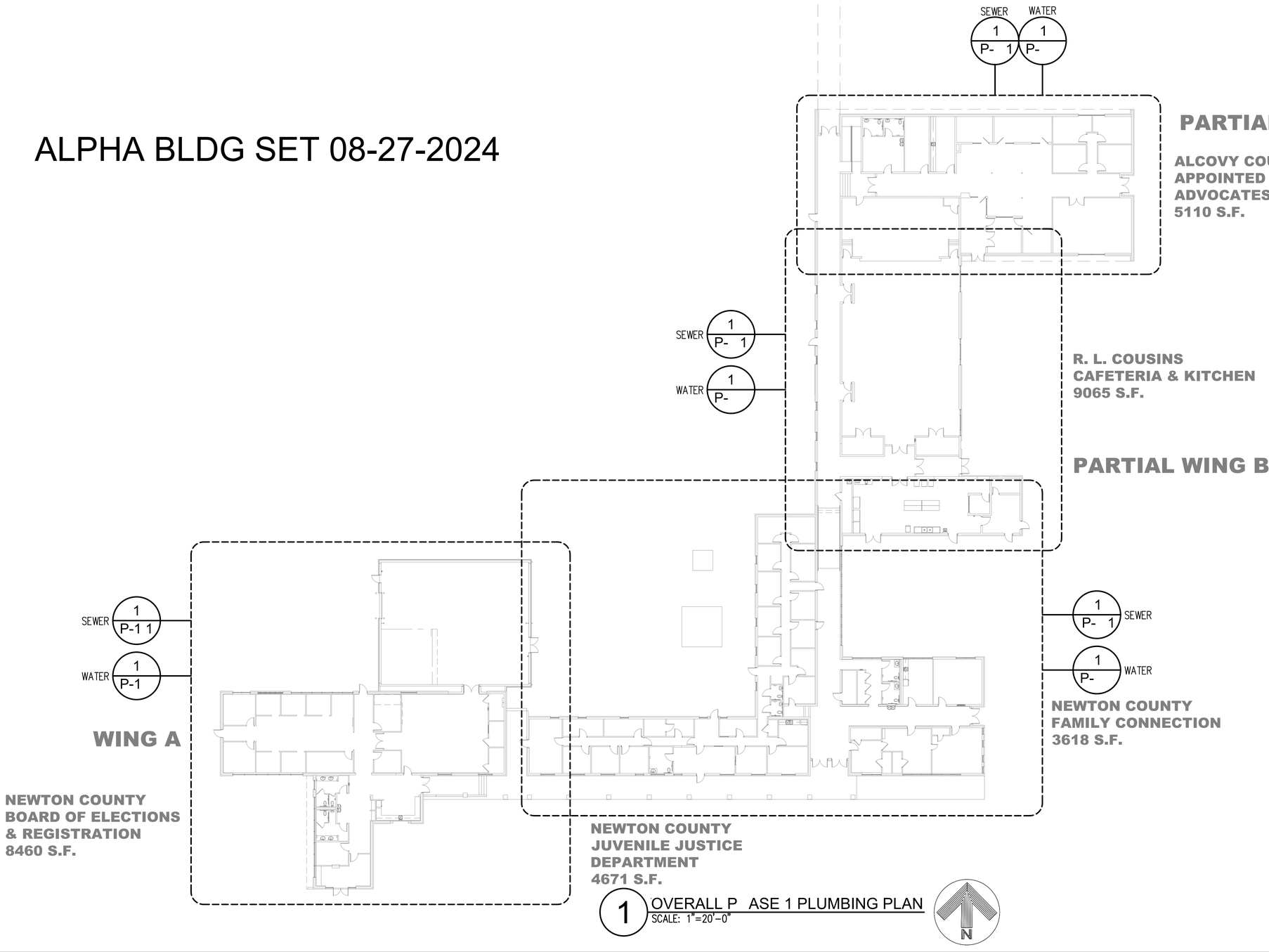
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FIRE SPRINKLER SPECIFICATIONS

Sheet No.:
P-0.2

ALPHA BLDG SET 08-27-2024

WING D

KEEP NEWTON BEAUTIFUL, DRIVERS LICENSE DEPT.
NO WORK IN THIS WING



PARTIAL WING C

ALCOVY COURT APPOINTED SPECIAL ADVOCATES (CASA)
5110 S.F.

R. L. COUSINS CAFETERIA & KITCHEN
9065 S.F.

PARTIAL WING B

NEWTON COUNTY FAMILY CONNECTION
3618 S.F.

WING A

NEWTON COUNTY BOARD OF ELECTIONS & REGISTRATION
8460 S.F.

NEWTON COUNTY JUVENILE JUSTICE DEPARTMENT
4671 S.F.

1 OVERALL P ASE 1 PLUMBING PLAN
SCALE: 1"=20'-0"

N

PHASE 1

Seal:
GEORGIA REGISTERED PROFESSIONAL ENGINEER KRUNAL M PATEL

TOTAL ENGINEERS
169 New Street, Macon, GA 31201
(478)741-4632 - T.E. project # 23-101
www.totalengineers.com

Client:
SUNBELT BUILDERS™
10841 HWY 8 COVINGTON GA 30014 | 770 788 0 1 770 788 046

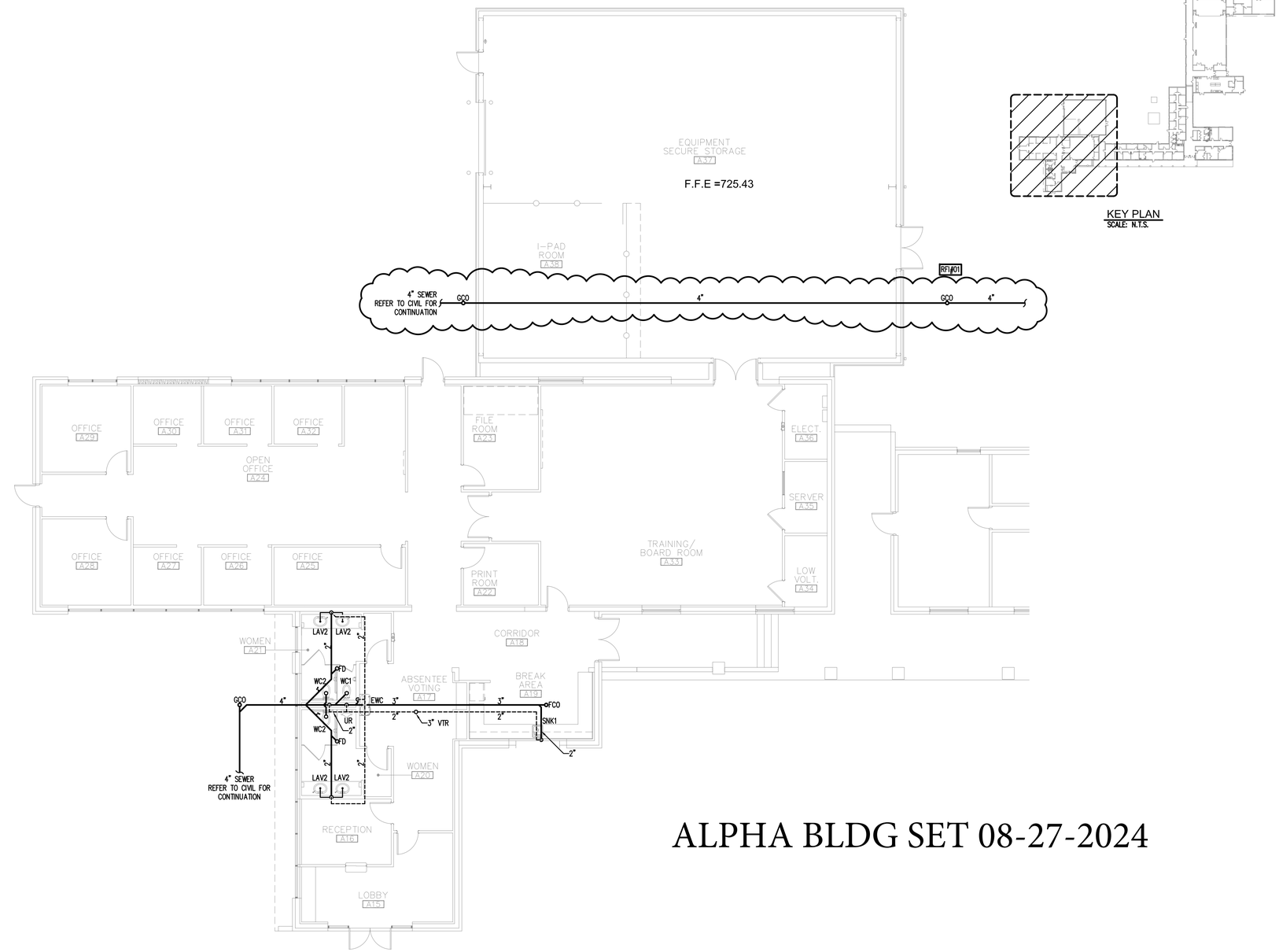
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R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

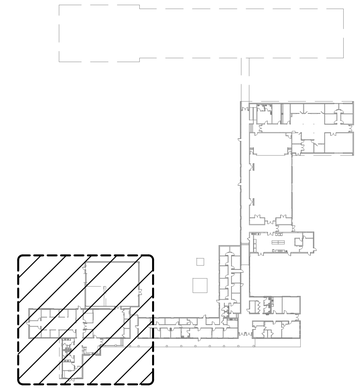
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Project No.:
Drwg. Date: 04/15/24
Drwg. Revision:
Drawn By: JWK & KMP
Checked By: KMP
File Name:

Sheet Title:
OVERALL PHASE 1 PLUMBING PLAN

Sheet No.:
P-1.0





ALPHA BLDG SET 08-27-2024

1 WING A
NEWTON COUNTY BOARD OF ELECTIONS & REGISTRATION PLUMBING PLAN - SEWER
SCALE: 1/8"=1'-0"

N

PHASE 1

Seal:
GEORGIA REGISTERED PROFESSIONAL ENGINEER
KRUNAL M PATEL

TOTAL ENGINEERS
169 New Street, Macon, GA 31201
(478)741-4632 - T.E. project # 23-101
www.totalengineers.com

Client:
SUNBELT BUILDERS™
1084 HWY 8 COVINGTON GA 30014 | 770.788.0911 | 770.788.0461

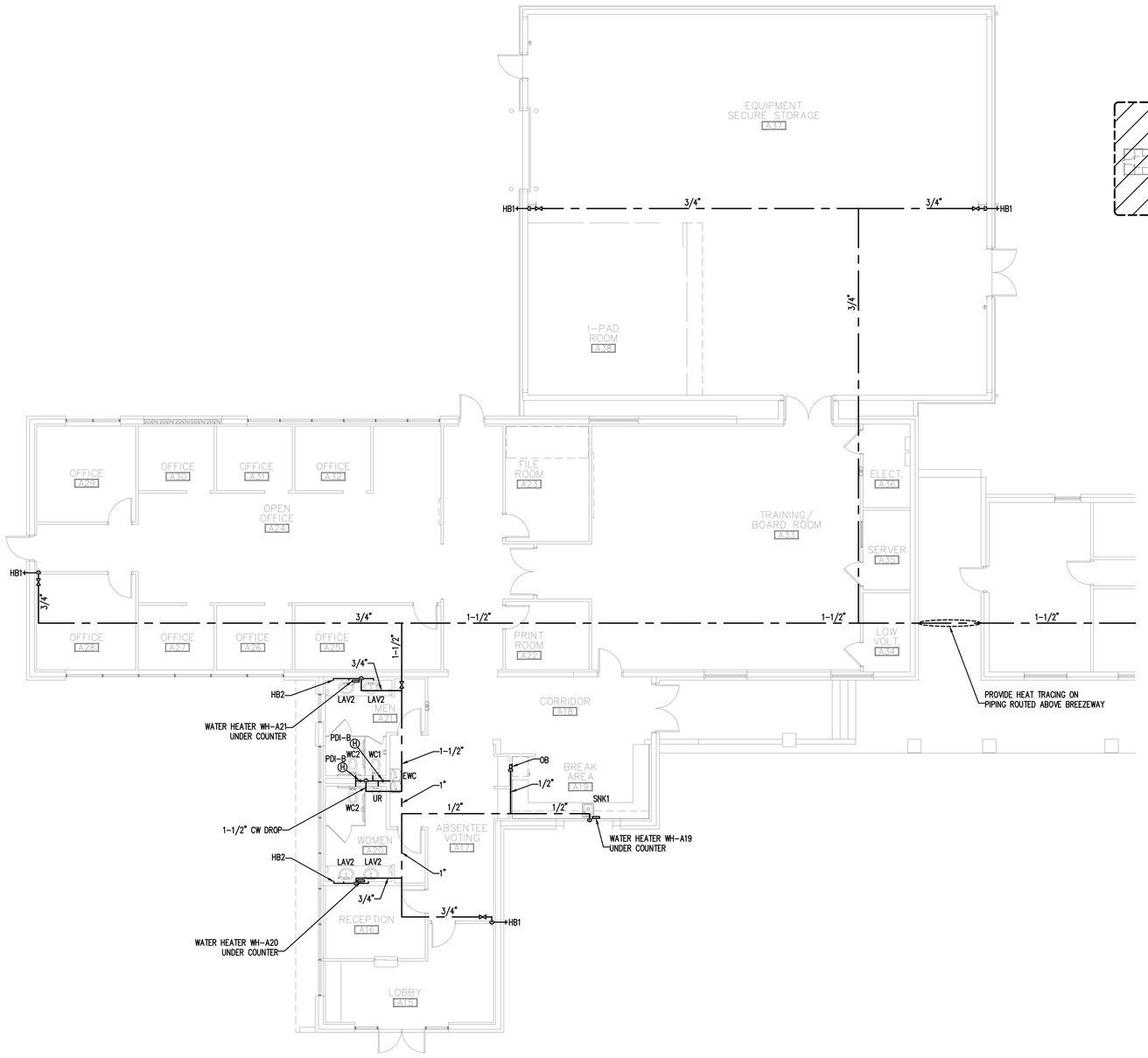
Project:
R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

Issue Date	Initial:	Drwg. Revision Description:

Project No.:
Drwg. Date: 04/15/24
Drwg. Revision:
Drawn By: JWK & KMP
Checked By: KMP
File Name:

Sheet Title:
WING A
EOC
PLBG PLAN–SEWER

Sheet No.:
P-2.1



KEY PLAN
SCALE: N.T.S.

1 WING A
NEWTON COUNTY BOARD O ELECTIONS REGISTRATION PLUMBING PLAN - WATER
SCALE: 1/8"=1'-0"

ALPHA BLDG SET 08-27-2024

PHASE 1

Seal:
GEORGIA REGISTERED PROFESSIONAL ENGINEER KRUNAL M PATEL

TOTAL ENGINEERS
169 New Street, Macon, GA 31201
(478)741-4632 - T.E. project # 23-101
www.totalengineers.com

Client:
sunbelt BUILDERS
10841 HWY 8 COVINGTON GA 30014 | 770 788 0 1 770 788 046

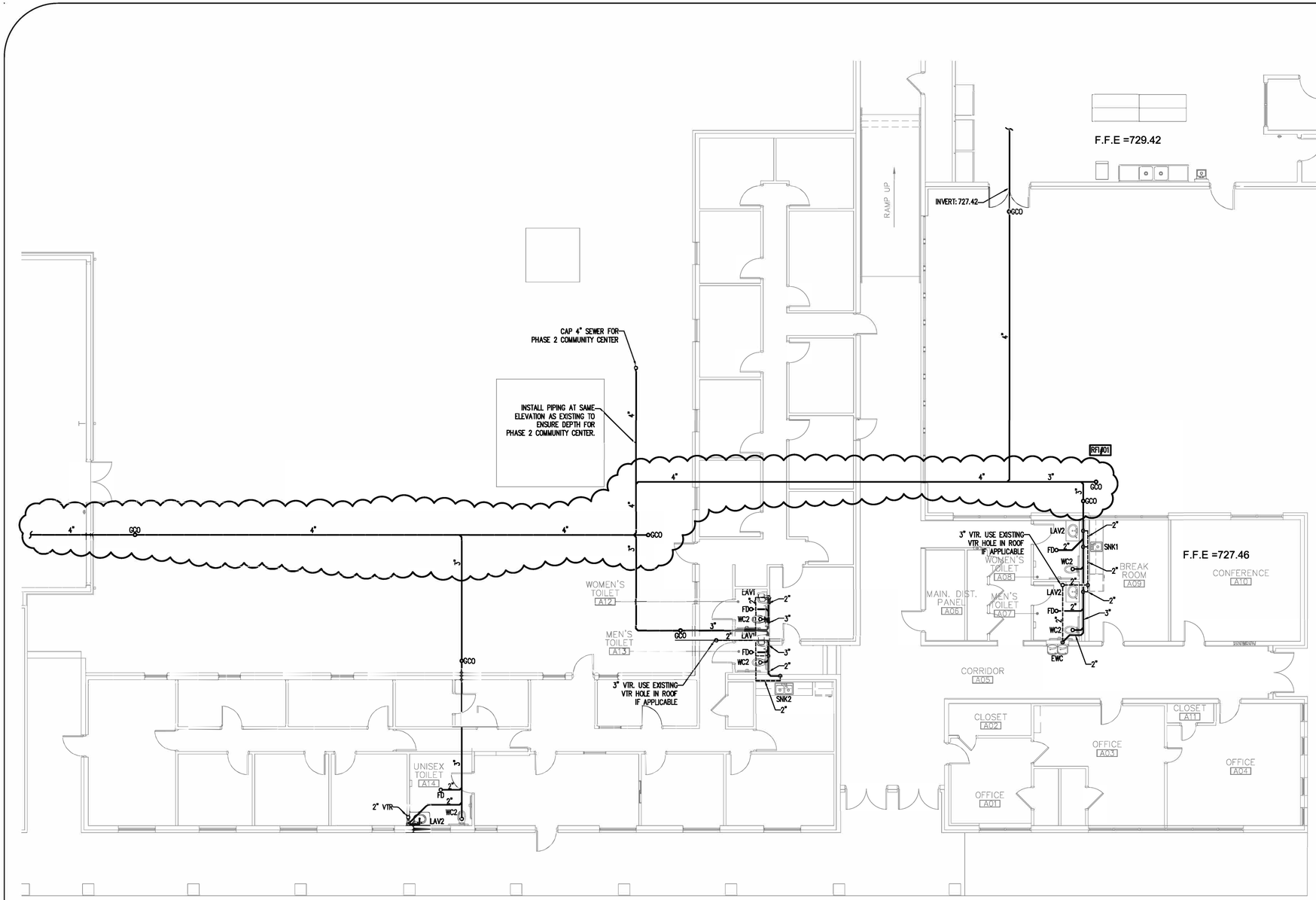
Project:
R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

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Drwg. Date: 04/15/24
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Drawn By: JWK & KMP
Checked By: KMP
File Name:

Sheet Title:
WING A
EOC
PLBG PLAN-WATER

Sheet No.:
P-2.2



KEY PLAN
SCALE: N.T.S.

ALPHA BLDG SET 08-27-2024

1 WING A
NEWTON COUNTY JUVENILE JUSTICE DEPARTMENT AND FAMILY CONNECTION PLUMBING PLAN - SEWER
SCALE: 1/8"=1'-0"

PHASE 1

Seal: GEORGIA REGISTERED PROFESSIONAL ENGINEER KRUNAL M PATEL

TOTAL ENGINEERS
169 New Street, Macon, GA 31201
(478)741-4632 - T.E. project # 23-101
www.totalengineers.com

Client: sunbelt BUILDERS
10841 HWY 8 COVINGTON GA 30014 | 770.788.0911 | 770.788.0440

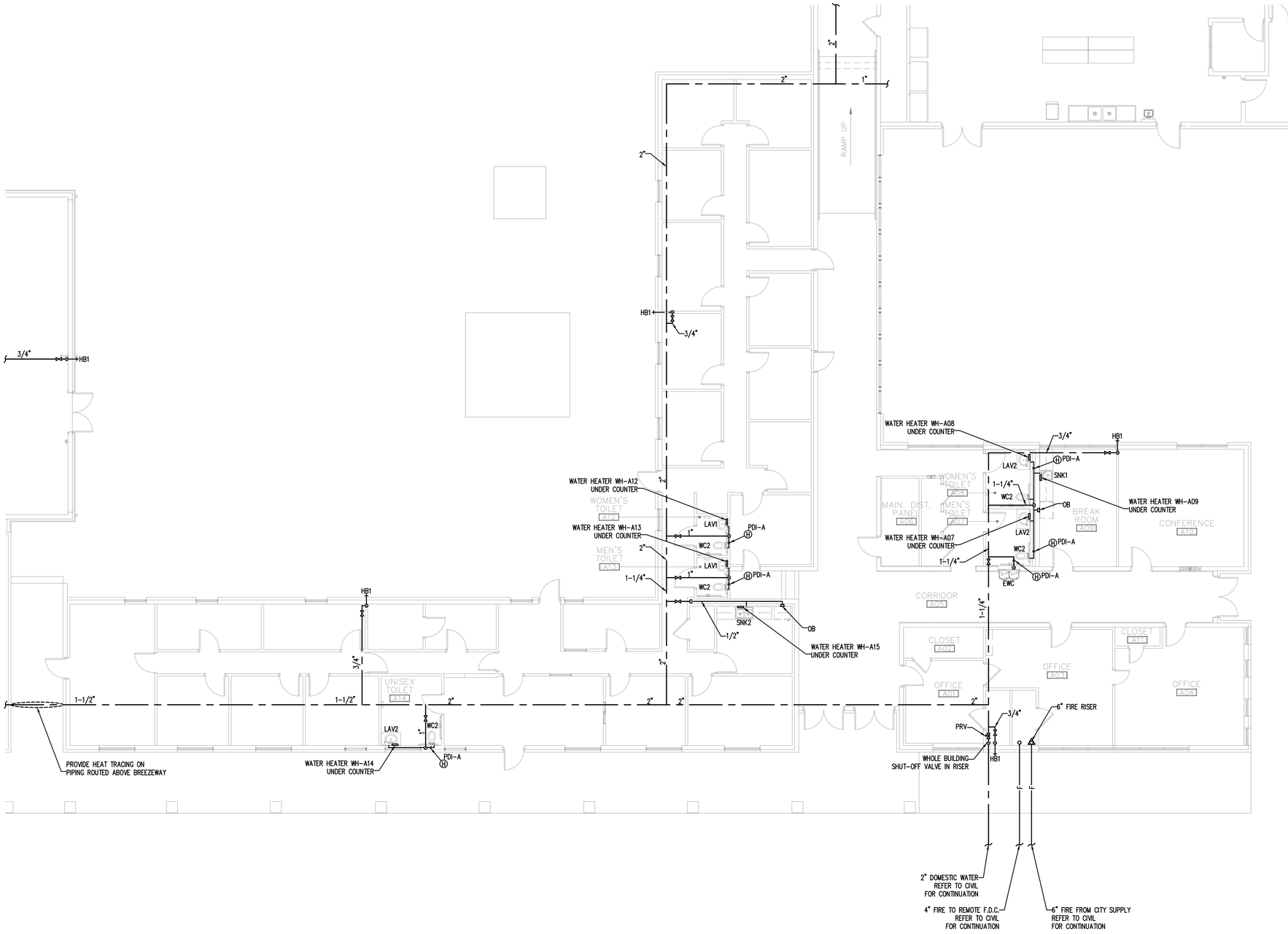
Project:
R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

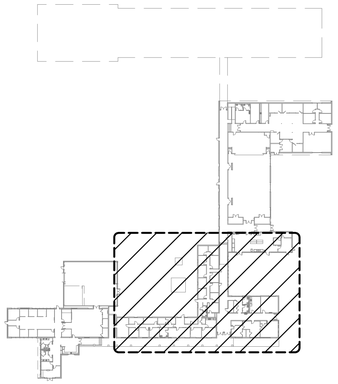
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Checked By: KMP
File Name:

Sheet Title:
WING A
JJD & FC
PLBG PLAN–SEWER

Sheet No.:
P-3.1





KEY PLAN
SCALE: N.T.S.

1 WING A
NEWTON COUNTY UVENILE USTICE DEPARTMENT AND AMILY CONNECTION PLUMBING PLAN - WATER
SCALE: 1/8"=1'-0"

ALPHA BLDG SET 08-27-2024

PHASE 1

Seal:
GEORGIA REGISTERED PROFESSIONAL ENGINEER KRUNAL M PATEL

TOTAL ENGINEERS
169 New Street, Macon, GA 31201
(478)741-4632 - T.E. project # 23-101
www.totalengineers.com

Client:
sunbelt BUILDERS
10841 HWY 8 COVINGTON GA 0014 1 770 788 0 1 770 788 046

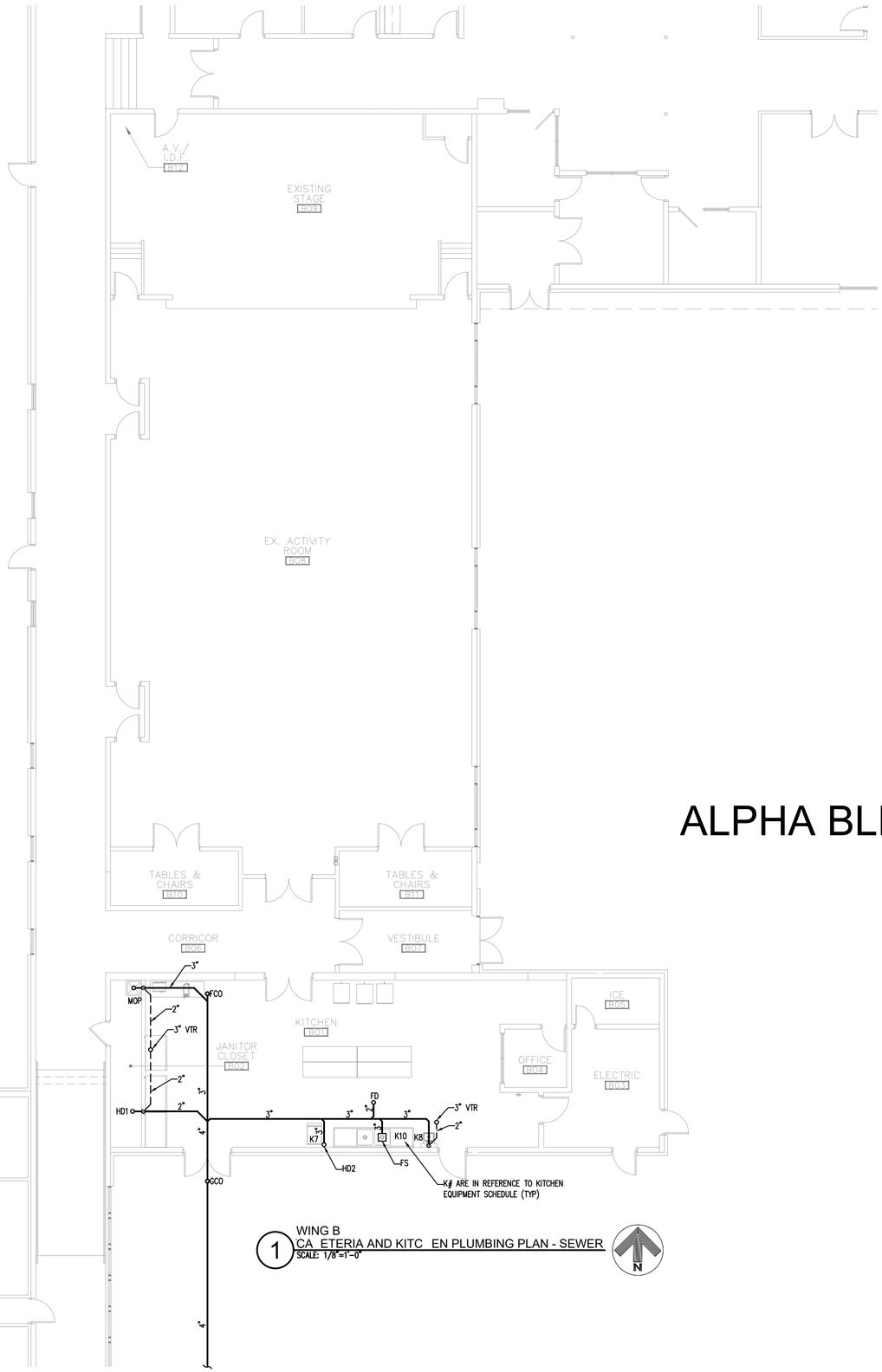
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R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

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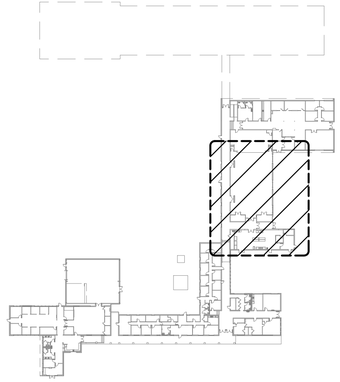
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Drwg. Revision:
Drawn By: JWK & KMP
Checked By: KMP
File Name:

Sheet Title:
WING A
JJD & FC
PLBG PLAN-WATER

Sheet No.:
P-3.2



1 WING B
CAFETERIA AND KITCHEN PLUMBING PLAN - SEWER
SCALE: 1/8"=1'-0"



KEY PLAN
SCALE: N.T.S.

KITCHEN EQUIPMENT NOTES

PLUMBER IS TO FURNISH AND INSTALL ALL NECESSARY VALVES, TRAPS, TAIL PIECES, LINE STRAINERS, WATER PRESSURE REDUCING VALVES AND VACUUM BREAKERS AND CONNECT ALL WATER, WASTE, AND VENT LINES TO KITCHEN EQUIPMENT. CONNECT TO KITCHEN EQUIPMENT THROUGH INDIVIDUAL WATER FILTERS WHEN REQUIRED BY EQUIPMENT MANUFACTURER. USE FLEXIBLE STAINLESS STEEL LINES WITH QUICK DISCONNECT CONNECTIONS. VERIFY WITH OWNERS REPRESENTATIVE EXACT LOCATION OF EQUIPMENT AND PLUMBING ROUGH IN SIZES, LOCATIONS, AND REQUIREMENTS.

ALPHA BLDG SET 08-27-2024

PHASE 1

Seal:
GEORGIA REGISTERED PROFESSIONAL ENGINEER KRUNAL M PATEL

TOTAL ENGINEERS
169 New Street, Macon, GA 31201
(478)741-4632 - T.E. project # 23-101
www.totalengineers.com

Client:
SUNBELT BUILDERS
10841 HWY 8 COVINGTON GA 30014 | 770 788 0 1 770 788 046

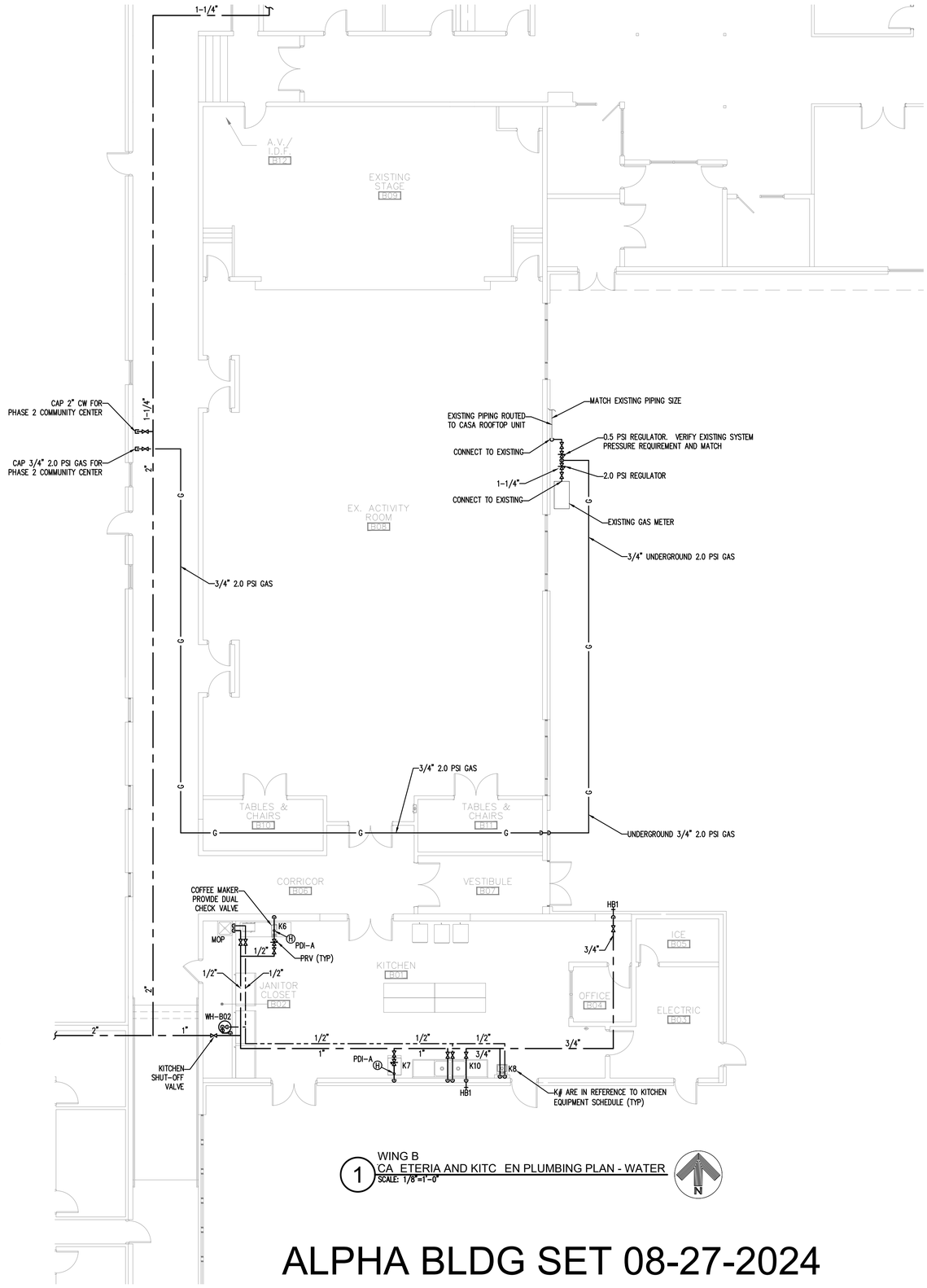
Project:
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NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

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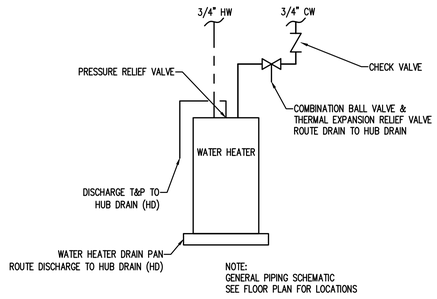
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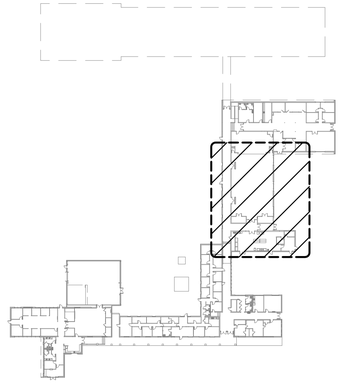
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P-4.1



1 WING B
CA ETERIA AND KITC EN PLUMBING PLAN - WATER
SCALE: 1/8"=1'-0"



WATER EATER W -B 1 PIPING SC EMATIC
SCALE: N.T.S.



KEY PLAN
SCALE: N.T.S.

KITC EN E UIPMENT NOTES

PLUMBER IS TO FURNISH AND INSTALL ALL NECESSARY VALVES, TRAPS, TAIL PIECES, LINE STRAINERS, WATER PRESSURE REDUCING VALVES AND VACUUM BREAKERS AND CONNECT ALL WATER, WASTE, AND VENT LINES TO KITCHEN EQUIPMENT. CONNECT TO KITCHEN EQUIPMENT THROUGH INDIVIDUAL WATER FILTERS WHEN REQUIRED BY EQUIPMENT MANUFACTURER. USE FLEXIBLE STAINLESS STEEL LINES WITH QUICK DISCONNECT CONNECTIONS. VERIFY WITH OWNERS REPRESENTATIVE EXACT LOCATION OF EQUIPMENT AND PLUMBING ROUGH IN SIZES, LOCATIONS, AND REQUIREMENTS.

ALPHA BLDG SET 08-27-2024

PHASE 1

Seal: GEORGIA REGISTERED PROFESSIONAL ENGINEER KRUNAL M PATEL

TOTAL ENGINEERS
169 New Street, Macon, GA 31201
(478)741-4632 - T.E. project # 23-101
www.totalengineers.com

Client: sunbelt BUILDERS
10841 HWY 8 COVINGTON GA 30014 | 770 788 0 1 770 788 046

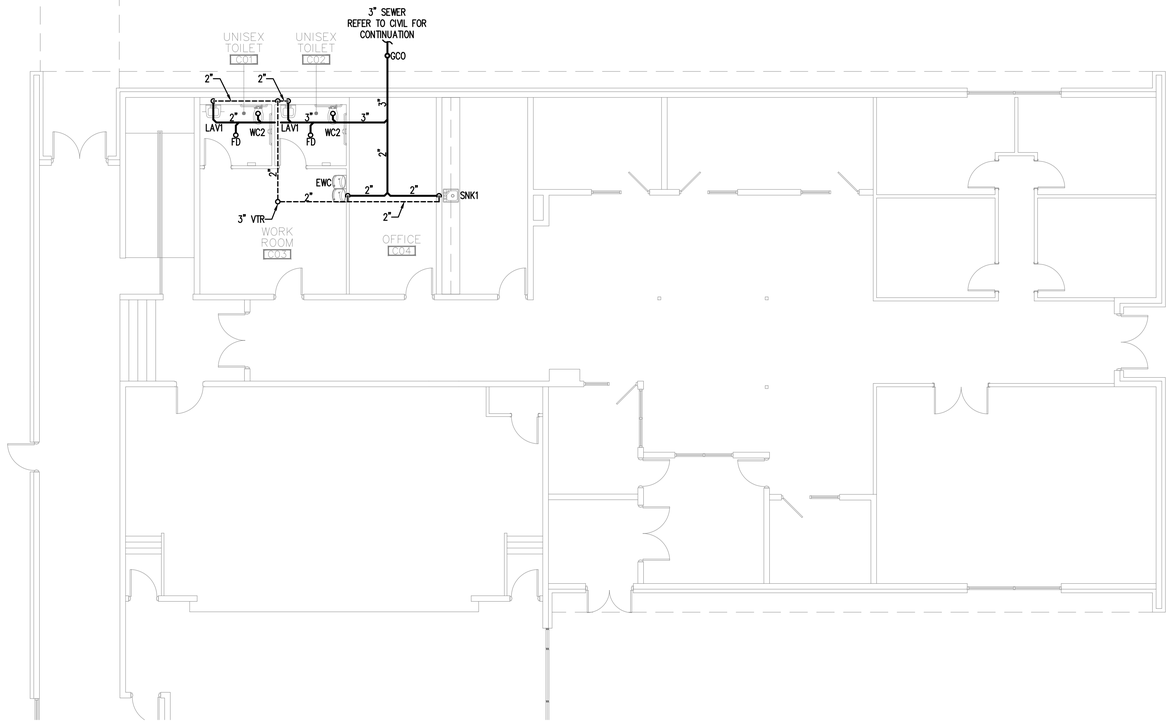
Project: R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA

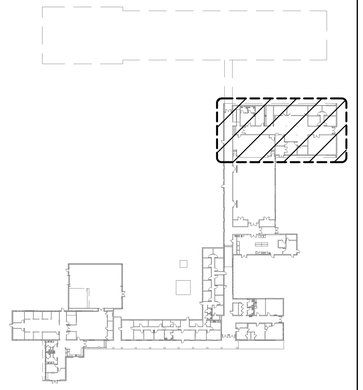
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Drwg. Revision:
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Checked By: KMP
File Name:

Sheet Title:
WING B CAFETERIA & KITCHEN PLBG PLAN-WATER

Sheet No.:
P-4.2





KEY PLAN
SCALE: N.T.S.

1 WING C
ALCOVY COURT APPOINTED SPECIAL ADVOCATES PLUMBING PLAN - SEWER
SCALE: 1/8"=1'-0"

N

ALPHA BLDG SET 08-27-2024

PHASE 1

Seal:
GEORGIA REGISTERED PROFESSIONAL ENGINEER KRUNAL M PATEL

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Client:
sunbelt BUILDERS™
10841 HWY 8 COVINGTON GA 30014 1 770 788 0 1 770 788 046

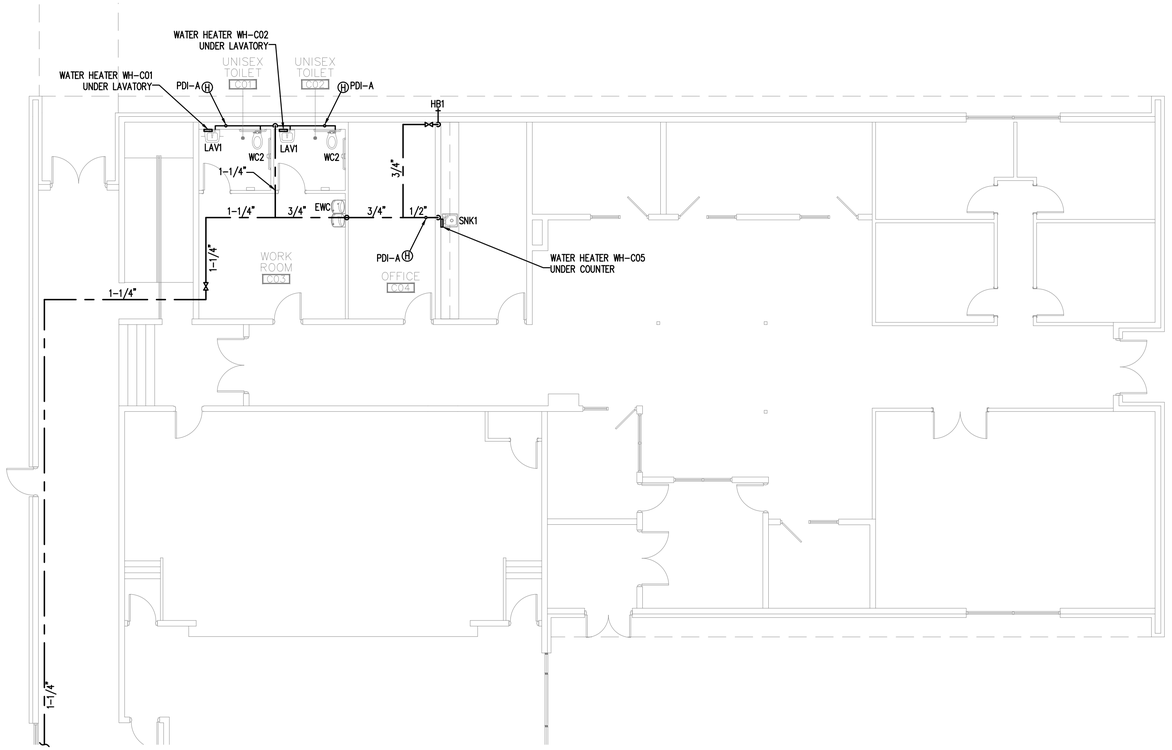
Project:
R. L. COUSINS COMMUNITY CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
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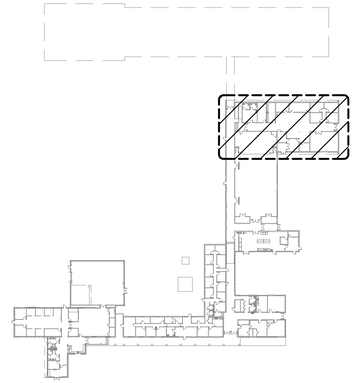
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Drwg. Revision:
Drawn By: JWK & KMP
Checked By: KMP
File Name:

Sheet Title:
WING C
CASA
PLBC PLAN–SEWER

Sheet No.:
P-5.1



1 WING C
ALCOVY COURT APPOINTED SPECIAL ADVOCATES PLUMBING PLAN - WATER
SCALE: 1/8"=1'-0"



KEY PLAN
SCALE: N.T.S.

ALPHA BLDG SET 08-27-2024

PHASE 1

Seal:
GEORGIA REGISTERED PROFESSIONAL ENGINEER KRUNAL M PATEL

TOTAL ENGINEERS
169 New Street, Macon, GA 31201
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Client:
sunbelt BUILDERS™
10841 HWY 8 COVINGTON GA 30014 | 770 788 0 1 770 788 046

Project:
R. L. COUSINS COMMUNITY CENTER
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Sheet Title:
WING C
CASA
PLBG PLAN-WATER

Sheet No.:
P-5.2

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER
A	2 FT. X 2 FT. ECONOMY RECESSED CONTEMPORARY LOW PROFILE ARCHITECTURAL TROFFER WITH ACRYLIC CENTER LENS AND MATTE WHITE POWDER PAINT REFLECTOR; STANDARD 0-10 DIMMING. PROVIDE 90 MINUTE EMERGENCY BATTERY PACK WHERE INDICATED ON THE DRAWINGS AND WIRE BATTERY IN PARALLEL FOR SWITCHED OPERATION. LAMPS: LED, 5000 LUMENS, 43 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	LITHONIA "STACK" SER., METALUX "ACHIEVA" SER., COLUMBIA "CCL" SER., OR APPROVED EQUAL
B	2 FT. X 2 FT. ECONOMY RECESSED CONTEMPORARY LOW PROFILE ARCHITECTURAL TROFFER WITH ACRYLIC CENTER LENS AND MATTE WHITE POWDER PAINT REFLECTOR; STANDARD 0-10 DIMMING. PROVIDE 90 MINUTE EMERGENCY BATTERY PACK WHERE INDICATED ON THE DRAWINGS AND WIRE BATTERY IN PARALLEL FOR SWITCHED OPERATION. LAMPS: LED, 4000 LUMENS, 34 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	LITHONIA "STACK" SER., METALUX "ACHIEVA" SER., COLUMBIA "CCL" SER., OR APPROVED EQUAL
C	2 FT. X 4 FT. ECONOMY RECESSED CONTEMPORARY LOW PROFILE ARCHITECTURAL TROFFER WITH ACRYLIC CENTER LENS AND MATTE WHITE POWDER PAINT REFLECTOR; STANDARD 0-10 DIMMING. PROVIDE 90 MINUTE EMERGENCY BATTERY PACK WHERE INDICATED ON THE DRAWINGS AND WIRE BATTERY IN PARALLEL FOR SWITCHED OPERATION. LAMPS: LED, 4000 LUMENS, 34 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	LITHONIA "STACK" SER., METALUX "ACHIEVA" SER., COLUMBIA "CCL" SER., OR APPROVED EQUAL
E	4 FT. LED STRIPLIGHT WITH DIFFUSE ACRYLIC LENS, SURFACE/PENDANT MOUNTED, STANDARD 0-10 DIMMING, SELECTABLE LUMEN OUTPUT. PROVIDE 90 MINUTE EMERGENCY BATTERY PACK WHERE INDICATED ON THE DRAWINGS AND WIRE BATTERY IN PARALLEL FOR SWITCHED OPERATION. LAMPS: LED, 4500 LUMENS MINIMUM, 36 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	METALUX "SNL" SER., LITHONIA "CSS" SER., COLUMBIA "CSL" SER., OR APPROVED EQUAL
F	4 FT. LED STRIPLIGHT WITH EXTRUDED ROUND ACRYLIC LENS, PENDANT MOUNTED, STANDARD 0-10 DIMMING. PROVIDE 90 MINUTE EMERGENCY BATTERY PACK WHERE INDICATED ON THE DRAWINGS AND WIRE BATTERY IN PARALLEL FOR SWITCHED OPERATION. COORDINATE FINISH WITH OWNER. LAMPS: LED, 3600 LUMENS, 36 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	PRUDENTIAL LIGHTING "SNAP" SER., BARTCO "BSS205" SER., AXIS LIGHTING "AIR LED" SER., OR APPROVED EQUAL
G	LED PENDANT ACCENT LIGHT WITH ALUMINUM HOUSING; DIRECT/INDIRECT DISTRIBUTION; LOW GLARE DIRECT OPTIC; WIDESPREAD INDIRECT OPTIC; STANDARD 0-10 DIMMING. PROVIDE 90 MINUTE EMERGENCY BATTERY PACK WHERE INDICATED ON THE DRAWINGS AND WIRE BATTERY IN PARALLEL FOR SWITCHED OPERATION. LAMPS: LED, 750 LM/FT DIRECT, 350 LM/FT INDIRECT, 46 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	LUMENWERX "VIA 2P" SER., NEO-RAY "DEFINE 2" SER., LITE CONTROL "MOD 2L-P-ID" SER., OR APPROVED EQUAL
H	TRADITIONAL CONE STYLE HEAD WITH INTEGRAL DRIVER, SINGLE CIRCUIT, TRACK LENGTH AS SHOWN, 350 DEGREE HORIZONTAL / 90 DEGREE VERTICAL AIMING. (3) FLOOD DISTRIBUTION HEADS PER TRACK, PROVIDE 1 AMP CURRENT LIMITING FEED UNIT, DIMMING STANDARD. SUSPEND TRACK TO BE 10'-0" A.F.F. COORDINATE FINISH WITH OWNER. LAMPS: LED, 850 LUMENS, 10 WATTS, 3500 DEGREE K DRIVER: DIMMING 120 VOLT DRIVER INTEGRAL WITH 1 AMP CURRENT LIMIT FOR TRACK	JUNO "R600L" SER., WAC LIGHTING "LUCIO 6010" SER., OR APPROVED EQUAL
J	INCANDESCENT OPEN BACK TRACK HEAD, DIE-FORMED STEEL CONSTRUCTION. PROVIDE TRAC-MASTER TRAC SYSTEM WITH TWO CIRCUIT TRACK. LAMPS TO BE CREE OR PHILLIPS DIMMABLE LAMPS WITH COLOR AS SHOWN ON DRAWING. COORDINATE FINISH WITH OWNER. LAMPS: PAR38, 120W DRIVER: 120V	JUNO "R533" SER., HALO "LZR1338" SER., WAC "765" SER., OR APPROVED EQUAL
K	2 FT. LED WALL FIXTURE, NOMINAL 4"X4" PROFILE, DIE FORMED STEEL HOUSING, SURFACE MOUNTED HORIZONTAL, INJECTION MOLDED FROST LENS, 0-10 DIMMING STANDARD. LAMPS: LED, 1200 LUMENS, 12 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	METALUX "SWLED" SER., LITHONIA "WL2" SER., COLUMBIA "CWM" SER., OR APPROVED EQUAL
OA	ARCHITECTURAL WALL PACK WITH DIE-CAST ALUMINUM HOUSING; WET LOCATION LISTED. COORDINATE FINISH WITH OWNER. PROVIDE 90 MINUTE EMERGENCY BATTERY PACK WHERE INDICATED ON THE DRAWINGS AND WIRE BATTERY IN PARALLEL FOR SWITCHED OPERATION. COORDINATE FINISH WITH OWNER. LAMPS: LED, 6500 LUMENS, 51 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT	LITHONIA "ARC2" SER.. MCGRAW "IST" SER., BEACON "TRP2" SER., OR APPROVED EQUAL
OC	LED AREA LIGHT, DIE-CAST ALUMINUM HOUSING, PRECISION ACRYLIC REFRACTIVE LENS; ALUMINUM HEAT SINC; WET LOCATION LISTED; TYPE 4 DISTRIBUTION. COORDINATE FINISH WITH OWNER. PROVIDE 25 FT. SQUARE STEEL POLE. LAMPS: LED, 17427 LUMENS, 114 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT	LITHONIA "RSX2" SER., BEACON "VIPER" SER., LUMARK "PRV" SER., OR APPROVED EQUAL
OD	LED AREA LIGHT, DIE-CAST ALUMINUM HOUSING, PRECISION ACRYLIC REFRACTIVE LENS; ALUMINUM HEAT SINC; WET LOCATION LISTED; TYPE 3 DISTRIBUTION. COORDINATE FINISH WITH OWNER. PROVIDE 25 FT. SQUARE STEEL POLE. LAMPS: LED, 17202 LUMENS, 114 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT	LITHONIA "RSX2" SER., BEACON "VIPER" SER., LUMARK "PRV" SER., OR APPROVED EQUAL
OE	LED POST TOP LIGHT, DIE-CAST ALUMINUM HOUSING, ACRYLIC OPTICS; WET LOCATION LISTED. COORDINATE FINISH WITH OWNER. PROVIDE 14 FT. ROUND STEEL POLE. LAMPS: LED, 3344 LUMENS, 26 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT	LITHONIA "RADPT LED" SER., INVUE "LXS" SER., RAYON "T331LED" SER., OR APPROVED EQUAL
	LED THERMOPLASTIC EXIT, IMPACT/SCRATCH RESISTANT AND CORROSION PROOF; TOP, END, OR BACK MOUNTING STANDARD. UNIVERSAL FIELD SELECTABLE SINGLE OR DOUBLE FACE. (PROVIDE 90 MIN. BACK-UP BATTERY). LAMPS: LED, 3 WATTS BALLAST: UNV. VOLT	LITHONIA "LQM" SER., SURE-LITES "LPX" SER., COMPASS "CE" SER., OR APPROVED EQUAL.
	LED 2 HEAD EMERGENCY UNIT, ROUND HEAD, LOW PROFILE CONTEMPORARY DESIGN WITH THERMOPLASTIC HOUSING, IMPACT RESISTANT, DAMP LOCATION LISTED. (PROVIDE 90 MIN. BACK-UP BATTERY). LAMPS: LED (2), 3 WATTS BALLAST: UNV. VOLT	LITHONIA "ELM2L" SER., COMPASS "CU2" SER., EMERGI-LITE "EL-2LED" SER., OR APPROVED EQUAL
	ARCHITECURAL LOW PROFILE OUTDOOR LED AC/EMERGENCY UNIT, SELF DIAGNOSTICS STANDARD. (PROVIDE 90 MIN. BACK-UP BATTERY). LAMPS: LED, 3 WATTS BALLAST: UNV. VOLT	EMERGI-LITE "LUXRAY" SER., LITHONIA "AFO" SER., MULE "MAXO" SER., OR APPROVED EQUAL

LIGHTING FIXTURE SCHEDULE
NOTES:
1. CONTRACTOR TO VERIFY ALL VOLTAGES, GRID AND CEILING TYPES WITH THE ARCHITECT AND COORDINATE FIXTURE DIMENSION SIZE TO ENSURE A PROPER FIT IN ALL CEILING TYPES PRIOR TO ORDERING.
2. ALL LUMENS LISTED ARE DELIVERED LUMENS. ALL EQUALS TO SPECIFIED FIXTURES SHALL NOT BE ANY LOWER THAN 5% OF SPECIFIED LUMENS. WATTAGE SHALL NOT BE HIGHER THAN 15% OF SPECIFIED WATTAGE.
3. LISTING OF MANUFACTURERS DOES NOT EQUAL AUTOMATIC APPROVAL. ALL CHARACTERISTICS NOTED IN DESCRIPTION SECTION MUST BE MET IN ORDER TO BE APPROVED. WHERE VENDOR/REP. DOES NOT HAVE ONE MANUFACTURER LISTED, PRIOR APPROVAL IS REQUIRED TO BE SUBMITTED TO ENGINEER TEN (10) DAYS PRIOR TO BID.

ELECTRICAL LEGEND

LIGHTING AND POWER

- CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALL, HASH MARKS INDICATE NUMBER OF CONDUCTORS. (3 WIRE UNLESS SHOWN)
- CONDUIT RUN CONCEALED BELOW FLOOR SLAB, OR UNDERGROUND.
- A-2.4 — HOMERUN TO PANELBOARD, LETTER OR LETTERS INDICATE PANELBOARD. NUMBERS INDICATES CIRCUIT NUMBERS.
- EXPOSED CONDUIT RUN.
- LIGHT FIXTURE, SEE LIGHTING FIXTURE SCHEDULE FOR MOUNTING AND TYPE.
- LIGHT FIXTURE, SEE SCHEDULE FOR MOUNTING AND TYPE. PROVIDE WITH 1100 LUMEN, 90 MINUTE BATTERY PACK. FIXTURE NORMALLY SWITCHED WITH OTHER FIXTURES IN THE AREA.
- UNSWITCHED NIGHT LIGHT FIXTURE, SEE SCHEDULE FOR MOUNTING AND TYPE. PROVIDE WITH 1100 LUMEN, 90 MINUTE BATTERY PACK.
- LIGHTING FIXTURE, WALL BRACKET MOUNTED. (MOUNTING HEIGHT AS NOTED ON DRAWINGS OR AS SHOWN ON ARCHITECTURAL ELEVATIONS.)
- LIGHT FIXTURE, SEE SCHEDULE FOR MOUNTING AND TYPE. PROVIDE WITH 1100 LUMEN, 90 MINUTE BATTERY PACK. FIXTURE NORMALLY SWITCHED WITH OTHER FIXTURES IN THE AREA.
- POLE MOUNTED LIGHT FIXTURE. SEE SCHEDULE FOR TYPE.
- JUNCTION BOX LOCATED ABOVE CEILING.
- JUNCTION BOX, FLUSH WALL MOUNTED. AT 18 IN. TO CENTERLINE UNLESS OTHERWISE NOTED.
- CEILING MOUNTED OUTLET WITH ONE TWIST LOCK SIMPLEX OUTLET (NEMA L5-20). SUPPORT BOX BY 3/8IN. THREADED ROD TO STRUCTURE. PROVIDE KELLUM STRAIN RELIEF GRIP AT BOX AND AT SUSPENDED OUTLET. SUSPEND TO 36 IN. A.F.F. COIL UP AND ZIP TIE AT 96 IN. A.F.F.
- DUPLEX CONVENIENCE OUTLET, +18 IN.TO CENTERLINE OF OUTLET UNLESS OTHERWISE NOTED.
- DUPLEX CONVENIENCE OUTLET. MOUNTED ABOVE COUNTER AT 3 FT.- 4 IN.TO BOTTOM OF BOX.
- QUADRUPLEX OUTLET, 18 IN. TO CENTERLINE UNLESS OTHERWISE NOTED.
- WP — DUPLEX CONVENIENCE OUTLET, GFI TYPE. 18 IN. TO CENTERLINE UNLESS OTHERWISE NOTED. "WP" WHERE SHOWN INDICATES WEATHERPROOF.
- DUPLEX CONVENIENCE OUTLET, GFI TYPE. MOUNTED ABOVE COUNTER. MOUNT AT 3 FT.- 4 IN. TO BOTTOM OF BOX.
- SPECIAL RECEPTACLE TO SUIT EQUIPMENT FURNISHED.
- $ — SINGLE POLE TOGGLE SWITCH, 42 IN. A.F.F. MOUNTING HEIGHT.
- $3 $4 — THREE OR FOUR WAY SWITCH AS INDICATED. 42 IN. A.F.F. MOUNTING HEIGHT.
- K — KEY SWITCH TO USE "CYLINDER" TYPE KEY. 42 IN. A.F.F. MOUNTING HEIGHT.
- D — 0-10 VOLT SLIDE TYPE DIMMER 2015 IECC COMPLAINT. (MANUAL ON TO 50% DIM 1-100%. AUTO OFF. MUST BE COMPATIBLE WITH VAC SENSOR AND POWER PACK.) 42 IN. ABOVE FLOOR.
- D3 — THREE WAY, 0-10 VOLT SLIDE TYPE DIMMER, 42 IN. ABOVE FLOOR, 2015 IECC COMPLAINT. (MANUAL ON TO 50%, DIM 1-100%. AUTO OFF. MUST BE COMPATIBLE WITH VAC SENSOR AND POWER PACK.)
- PANELBOARD, SEE SCHEDULE.
- T — TRANSFORMER, SEE RISER DIAGRAM FOR SIZE AND VOLTAGE.
- DISCONNECT SWITCH, SIZE AS NOTED ON DRAWINGS.
- PE — PHOTO ELECTRIC CELL.

SOUND SYSTEM (RACEWAY AND BOXES ONLY)

- S — SPEAKER, FLUSH WALL MOUNTED. PROVIDE OUTLET BOX AND 3/4 IN. C. TO AV ROOM.
- V — VOLUME CONTROL. MOUNTED 42 IN. ABOVE FLOOR. PROVIDE OUTLET BOX AND 3/4 IN. C. TO AV ROOM.
- SC — SOUND RACK/CONSOLE.
- M — MIC OUTLET. PROVIDE OUTLET BOX AND 3/4 IN. C. TO AV ROOM.

ELECTRICAL LEGEND

LIGHTING CONTROL SENSORS

- 3V — COMBINATION 360 DEGREE, ULTRASONIC AND PASSIVE INFRARED SENSOR (WATT STOPPER "DT-300", GREENGATE, NOVITAS, HUBBELL, LEVITON, SENSOR SWITCH). ("V" INDICATES VACANCY SENSOR, UNIT MUST COMPLY WITH IECC 2015 REQUIREMENTS AND BE COMPATIBLE WITH DIMMER)
- PASSIVE INFRARED SENSOR (WATT STOPPER "WPIR", GREENGATE, NOVITAS, HUBBELL, LEVITON, SENSOR SWITCH).
- H — ULTRASONIC OCCUPANCY SENSOR (WATT STOPPER "WT-2250", GREENGATE, NOVITAS, HUBBELL, LEVITON, SENSOR SWITCH).
- WALL MOUNTED SENSOR SWITCH, 42 IN. MOUNTING HEIGHT (WATTSTOPPER DSW-301, GREENGATE, NOVITAS, HUBBELL, LEVITON, SENSOR SWITCH).

TELEPHONE/DATA/CATV SYSTEMS

- COMPUTER OUTLET, 18 IN. ABOVE FLOOR UNLESS NOTED OTHERWISE. (2 DATA)
- COMBINATION COMPUTER AND TELEPHONE OUTLET, MOUNTED 18 IN. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE. (2 DATA, 1 TEL)
- CP — COMBINATION COMPUTER AND TELEPHONE OUTLET, MOUNTED 8 INCHES ABOVE COUNTER OR AT 42. ABOVE FLOOR UNLESS NOTED OTHERWISE. (2 DATA, 1 TEL)
- AP — WIRELESS ACCESS POINT. (2 DATA)
- TV — TELEVISION OUTLET, 18 IN. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE.
- TB — PLYWOOD BACKBOARD, "TB" INDICATES TELEPHONE BOARD.

FIRE ALARM SYSTEM (VOICE EVAC)

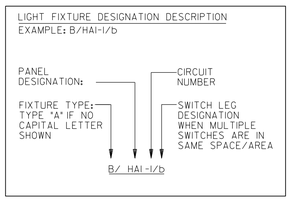
- FACP — FIRE ALARM CONTROL PANEL, VOICE EVAC SYSTEM, SURFACE WALL MOUNTED.
- FAA — FIRE ALARM REMOTE LCD ANNUNCIATOR PANEL. FLUSH RECESSED WALL MOUNTED.
- MIC — REMOTE VOICE EVACUATION MICROPHONE, WALL MOUNTED IN FLUSH BOX, 42 IN. A.F.F.
- FIRE ALARM SIGNAL, SPEAKER AND FLASHING LIGHT. 6 FT.-8 IN. MOUNTING HEIGHT.
- FIRE ALARM SIGNAL, HORN AND FLASHING LIGHT. 6 FT.-8 IN. MOUNTING HEIGHT.
- FIRE ALARM STROBE LIGHT, 6 FT.-8 IN. MOUNTING HEIGHT.
- F — FIRE ALARM PULL STATION. WALL MOUNTED 3 FT.-6 IN. ABOVE FLOOR.
- P — FIRE ALARM SMOKE DETECTOR, CEILING MOUNTED.
- FIRE ALARM DUCT SMOKE DETECTOR LOCATED IN HVAC SUPPLY AIR DUCT. PROVIDE IN UNITS 2000 CFM AND GREATER. DETECTOR SHALL SHUT DOWN UNIT UPON ACTIVATION.
- FIRE ALARM HEAT DETECTOR, 135 DEG, OPERATION.
- VS — TAMPER SWITCH, FURNISHED AND INSTALLED WITH SPRINKLER SYSTEM. INTERLOCK WITH FIRE ALARM SYSTEM BY ELECTRICAL.
- WF — FLOW SWITCH, FURNISHED AND INSTALLED WITH SPRINKLER SYSTEM. INTERLOCK WITH FIRE ALARM SYSTEM BY ELECTRICAL.

SECURITY SYSTEM (RACEWAY AND BOXES ONLY)

- C — ACCESS CONTROL PROXIMITY READER. PROVIDE JUNCTION BOX AND 3/4 IN. C. WITH PULL STRING TO SECURITY EQUIPMENT LOCATION. COORDINATE WITH SECURITY CONTRACTOR PRIOR TO ROUGH-IN. COORDINATE MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN. (RACEWAY AND BOXES ONLY)
- DC — DOOR CONTACT POSITION SENSOR LOCATION. PROVIDE SINGLE GANG BOX AT DOOR FRAME ON SECURE SIDE OF DOOR. COORDINATE EXACT LOCATION WITH ACCESS CONTROL SYSTEM VENDOR. PROVIDE 3/4 IN. C. WITH PULL STRING TO STUB-OUT ABOVE CEILING.
- WALL MOUNTED CCTV SECURITY CAMERA. PROVIDE JUNCTION BOX AND 1IN. C. WITH PULL STRING TO SECURITY EQUIPMENT LOCATION. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL. (RACEWAY AND BOXES ONLY)

NOTES:
1. ALL MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTERLINE OF OUTLET OR DEVICE.
2. ALL RECEPTACLES SHALL BE TAMPER RESISTANT (TYPE "TR").

LIGHT FIXTURE DESIGNATION DESCRIPTION
EXAMPLE: B/HAI-1/b



PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)

GENERAL NOTES:

A. ALL FLUSH RECESSED OUTLET BOXES SHALL BE INSTALLED SUCH THAT FRONT EDGE OF THE BOX WILL NOT BE SET BACK OF THE FINISHED SURFACE MORE THAN 1/4IN. IN ORDER TO COMPLY WITH N.E.C. 314-20. SUPPORT OF OUTLET BOX BY RECEPTACLE AND COVERPLATE IS NOT ACCEPTABLE. CAREFULLY COORDINATE ROUGH-IN WITH BLOCK MASONS AND GROUT-IN CELL CONTAINING OUTLET BOX.

B. DO NOT SCALE DRAWINGS TO LOCATE EQUIPMENT OR OUTLETS. MOUNTING HEIGHTS AS INDICATED ON THE DRAWINGS SHALL BE FROM THE FINISHED FLOOR TO THE CENTER LINE OF THE OUTLET BOX.

C. THE ELECTRICAL DRAWINGS ARE ONLY A PART OF THE CONTRACT DOCUMENTS. ALL OF THE DRAWINGS AND SPECIFICATIONS MUST BE REVIEWED FOR THEIR INTERRELATIONSHIP AND REQUIRED COORDINATION BETWEEN DISCIPLINES.

D. ALL RECEPTACLES SHALL BE TAMPER RESISTANT (TYPE "TR").

E. PROVIDE BLANK COVER PLATES ON ALL BOXES WHERE NO DEVICE IS PRESENT, INCLUDING EMPTY BOXES AND/OR BOXES THAT MIGHT HAVE CABLES THAT ARE NOT TERMINATED.

ALPHA BLDG SET 08-27-2024

PHASE I

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NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA.

Issue Date:	Initial	Drwg. Revision Description:
06-27-24	TAW	FOR CONSTRUCTION
07-03-24	TAW	VE REVISION

Project No.: 2023012
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Drawn By: TAW
Checked By: JHM
File Name:

Sheet Title:
ELECTRICAL LEGEND, AND SCHEDULES

Sheet No.:
E-0.1

ELECTRICAL SPECIFICATIONS

DIVISION 26

ELECTRICAL

SECTION A: GENERAL ELECTRICAL REQUIREMENTS

1. THESE PLANS AND SPECIFICATIONS APPLY TO R. L. COUSINS CENTER, CONVINGTON, GEORGIA. THE WORK DESCRIBED BY THESE PLANS AND SPECIFICATIONS APPLY TO THE INDICATED PROJECT AND MAY NOT BE MODIFIED OR REUSED WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
2. ALL WORK SHALL BE PERFORMED BY LICENSED ELECTRICAL CONTRACTOR WITH MINIMUM OF TWO YEARS OF EXPERIENCE. LIST OF PREVIOUS JOBS AND REFERENCES SHALL BE MADE AVAILABLE UPON REQUEST. CONTRACTOR SHALL PROVIDE ADEQUATE INSURANCE FOR PERSONNEL AND SHALL REPAIR ANY DAMAGE OCCURRING AS THE RESULT OF THIS PROJECT SITE AND RELATED PROPERTY.
3. ALL WORK SHALL BE PERFORMED IN A PROFESSIONAL MANNER IN ACCORDANCE WITH THE 2020 NATIONAL ELECTRICAL CODE, LIFE SAFETY CODE NFPA 101, ADA CODE, GA ACCESSIBILITY CODE, STATE OF GEORGIA ENERGY CODE AND ALL OTHER APPLICABLE CODES AND ORDINANCES.
4. ALL PERMITS AND FEES SHALL BE OBATINED AND PAID FOR BY THE CONTRACTOR.
5. ALL EQUIPMENT, MATERIAL, AND DEVICES SHALL BE LISTED OR RECOGNIZED BY UNDERWRITER'S LABORATORY OR ELECTRICAL TESTING LABORATORY AND USED AND INSTALLED IN ACCORDANCE WITH IT'S LISTING.
6. ALL WORK PERFORMED SHALL BE WARRANTED FOR A PERIOD OF ONE YEAR FROM THE THE FINAL COMPLETION DATE EXCEPT FOR FUSES AND LAMPS IN LIGHT FIXTURES. UPON NOTIFICATION OF A PROBLEM, THE CONTRACTOR SHALL INVESTIGATE THE PROBLEM WITHIN 48 HOURS UNLESS A DIFFERENT TIME PERIOD IS AGREED TO. THE CONTRACTOR SHALL INVESTIGATE, REPAIR OR REPLACE ALL FAULTY EQUIPMENT WITHIN A REASONABLE TIME PERIOD WITHOUT CHARGE TO THE OWNER.
7. THE TERM 'PROVIDE' SHALL BE UNDERSTOOD TO MEAN, OBTAIN THE ITEM DESCRIBED, INSTALL ITEM IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS, AND MANUFACTURER'S RECOMMENDATIONS.
8. ALL PENETRATIONS MADE IN FIRE RATED BUILDING PORTIONS SHALL BE SEALED WITH A LISTED RESISTANT MATERIAL SUITABLE FOR THE APPLICATION.
9. ALL INSTALLATIONS OF ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO INSTALLATION.
10. PLANS ARE DIAGRAMMATIC AND SHOW THE LOCATION OF THE EQUIPMENT, RACEWAY AND FIXTURES, AND ARE NOT TO BE SCALED. ALL DIMENSIONS SHALL BE VERIFIED AT THE BUILDING SITE.
11. CONTRACTOR SHALL VERIFY AND COORDINATE ALL EQUIPMENT AND DEVICE LOCATIONS WITH OWNER'S PROJECT MANAGER PRIOR TO INSTALLATION.

12. EQUIPMENT BREAKER AND WIRING REQUIREMENTS; THE CONTRACTOR SHALL SUBMIT FOR REVIEW A TABULATED SHEET OF BREAKER AND WIRING REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT REQUIRING POWER AS SPECIFIED IN DIVISION 23. REQUIREMENTS SHALL BE IDENTIFIED BY HORSEPOWER OR KW, OPERATING AMPERAGE, REQUIRED VOLTAGE AND PHASE REQUIREMENTS, AND MANUFACTURERS SUGGESTED OVERCURRENT CIRCUIT PROTECTION DEVICE SIZE AND MINIMUM CIRCUIT AMPACITY SIZE. WHERE THE ELECTRICAL REQUIREMENTS SUBMITTED FOR MECHANICAL EQUIPMENT DIFFERS FROM THE BRANCH CIRCUITRY SHOWN ON THE ELECTRICAL DRAWINGS (WHEN USING THE BASIS OF DESIGN UNIT LISTED IN THE MECHANICAL SCHEDULES/SPECIFICATIONS OR A SIMILAR UNIT OF THE SAME SIZE FROM LISTED ALTERNATE MANUFACTURERS), THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS TO THE BRANCH CIRCUITRY PER THE CURRENT NEC AT NO ADDITIONAL COST TO THE OWNER. WHEN CHANGES ARE MADE TO POWER REQUIREMENTS FOR EQUIPMENT DUE TO OWNER, ARCHITECT/ENGINEER APPROVED VALUE ENGINEERING CHANGES TO EQUIPMENT, THE COST MUST NE INCLUDED IN THE VALUE ENGINEERING OVERALL CHANGE ORDER COST. COSTS DUE TO ADJUSTMENTS IN BRANCH CIRCUITRY TO EQUIPMENT DUE TO VALUE ENGINEERING CHANGES WILL NOT BE ALLOWED AFTER THE OVERALL VALUE ENGINEERING CHANGE ORDER HAS BEEN APPROVED. IN ALL CASES, BREAKER AND WIRING REQUIREMENTS FOR MECHANICAL EQUIPMENT MUST BE PROVIDED TO THE ENGINEER BEFORE OR AT THE SAME TIME AS THE SHOP DRAWINGS FOR THE ELECTRICAL DISTRIBUTION GEAR OR EQUIPMENT. IN NO CASE SHALL THE ELECTRICAL DISTRIBUTION GEAR OR EQUIPMENT BE ORDERED OR BRANCH CIRCUITRY ROUGHED IN PRIOR TO ENGINEER REVIEW AND COMMENT ON THIS DOCUMENT. ANY EQUIPMENT ORDERED OR BRANCH CIRCUITRY ROUGHED IN ON THE JOBSITE WITHOUT THIS REVIEW AND COMMENT WILL BE TOTALLY AT THE CONTRACTORS RISK.

SECTION B: BASIC MATERIALS

1. ALL CONDUCTORS USED FOR 600 VOLTS OR LESS SHALL BE HIGH GRADE COPPER CONDUCTORS WITH 75 DEGREE C. THHN OR THWN THERMOPLASTIC INSULATION. ALL CONDUCTORS SHALL BE MADE IN THE USA. ALL CONDUCTORS ROUTED IN UNDERGROUND CONDUIT SHALL BE RATED FOR WET LOCATIONS.
2. ALL INTERIOR 120/277 VOLT, 20 AMP POWER AND LIGHTING WIRING SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING OR "MC" CABLE (IF NOT EXPOSED) FOR ALL INTERIOR CIRCUITS UNLESS OTHERWISE NOTED. IF "MC" CABLE IS USED, HOMERUNS SHALL BE IN 3/4 IN. EMT. POWER CIRCUITS FOR HVAC EQUIPMENT SHALL BE IN 3/4" ELECTRICAL METALIC CONDUIT MINIMUM. ALL CONDUIT SHALL BE SUPPORTED FROM BUILDING STRUCTURE. IT SHALL NOT BE SUPPORTED FROM DUCTWORK, PIPING, CEILING GRID OR CEILING GRID SUPPORTS, OR ANY OTHER NON-STRUCTURAL ITEM. CONDUIT SHALL BE SUPPORTED IN ACCORDANCE WITH THE NEC. CONDUIT IN EXPOSED STRUCTURE AREAS SHALL BE EMT. GALVANIZED RIGID STEEL CONDUIT SHALL BE USED IN AREAS WHERE IT WILL BE EXPOSED TO PHYSICAL DAMAGE.
3. CONDUIT UNDERGROUND SHALL BE SCHEDULE 40 PVC. IF MORE THAN ONE CONDUIT IS PROVIDED IN A SINGLE TRENCH, THE CONDUIT SHALL BE RACKED WITH SPACERS EVERY FOUR FEET TO MAINTAIN A MINIMUM SPACING BETWEEN CONDUIT OF TWO INCHES. BACKFILL USED FOR UNDERGROUND INSTALLATIONS SHALL BE FREE OF FOREIGN MATTER. WHERE EXPOSED TO WEATHER, CONDUIT SHALL BE GALVANIZED RIGID STEEL OR INTERMEDIATE METALLIC CONDUIT. THE CONDUIT SHALL BE TERMINATED WITH LISTED FITTINGS AND ALL CONDUIT ENDS SHALL BE REAMED AND SMOOTH. ALL CONDUIT ENDS IN BOXES SHALL BE PROVIDED WITH INSULATED BUSHINGS.
4. A #12 INSULATED COPPER GROUND CONDUCTOR SHALL BE INCLUDED IN ALL BRANCH CIRCUITS RATED 20 AMPERES. ALL OTHER CIRCUITS AND FEEDERS WILL BE PROVIDED WITH AN INSULATED COPPER CONDUCTOR SIZED AS NOTED OR IN ACCORDANCE WITH THE NEC, WHICHEVER IS GREATER.
5. THE MINIMUM SIZE OF ALL CONDUCTORS NOT OTHERWISE INDICATED IS #12 AND THE MINIMUM SIZE OF ALL CONDUIT UNLESS OTHERWISE INDICATED IS 1/2 IN.
6. ALL JUNCTION BOXES SHALL BE PROVIDED WITH COVERS AND ALL UNUSED OPENINGS SHALL BE PLUGGED. ALL JUNCTION BOXES SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURE. COVERS OF BOXES SHALL BE LABELED WITH THE CIRCUIT NUMBER WITH A BLACK PERMANENT MARKER IN 3/4 IN. HIGH LETTERS (LEGIBLE HANDWRITTEN LETTERING IS ACCEPTABLE).
7. ALL OUTLET BOXES SHALL BE SQUARE METAL BOXES. PROVIDE PLASTER RINGS FOR ALL OUTLET BOXES CONTAINING DEVICES TO PROVIDE A FIRM MOUNTING SUPPORT FOR THE DEVICE.
8. ALL CONVENIENCE RECEPTACLES SHALL BE SPECIFICATION GRADE 20 AMP RECEPTACLES, OWNER TO SELECT COLOR. TAMPER RESISTANT (TYPE "TR").

9. ALL LIGHT SWITCHES SHALL BE SPECIFICATION GRADE 20 AMP TOGGLE SWITCHES FULL LOAD RATED FOR TUNGSTEN-HALOGEN LAMPS, OWNER TO SELECT COLOR.

10. PROVIDE FACEPLATES FOR ALL RECEPTACLES AND SWITCHES. COORDINATE STYLE AND COLOR WITH OWNER'S PROJECT MANAGER.
11. PROVIDE BETWEEN 12 AND 24 INCHES OF LIQUID TIGHT FLEXIBLE CONDUIT BETWEEN RIGID CONDUIT AND ANY EQUIPMENT CONTAINING MOTORS. THE FLEXIBLE CONDUIT SHALL BE SUPPORTED TO PREVENT THE CONDUIT FROM RESTING ON THE GROUND OR CONCRETE PAD.
12. PROVIDE WEATHERPROOF RECEPTACLE WITHIN 25 FEET OF EACH PIECE OF EXTERIOR EQUIPMENT. THIS RECEPTACLE SHALL BE MOUNTED HORIZONTALLY WITH METAL HINGED "IN USE" COVER MOUNTED TO OPEN UP. THIS OUTLET SHALL BE A GFCI RECEPTACLE. THIS RECEPTACLE SHALL BE BE MOUNTED IN DIE CAST NON CORRODING METAL BOX.
13. WHEN OUTLETS OR BOXES ARE INDICATED INSTALLED ON OPPOSITE SIDES OF THE SAME WALL. THE CONTRACTOR SHALL ADJUST THE LOCATION TO OFFSET THE OUTLETS WITH A WALL STUD PROVIDING SEPERATION.

SECTION C: DISTRIBUTION EQUIPMENT

1. CONTRACTOR SHALL PROVIDE CONDUCTORS AND CONDUIT FOR ALL FEEDERS IN ACCORDANCE WITH THE PLANS.
2. SEPERATELY MOUNTED CIRCUIT BREAKERS SHALL BE MOUNTED IN NEMA TYPE 1 ENCLOSURES IN INDOOR APPLICATIONS AND IN NEMA 3R ENCLOSURES IN EXTERIOR OR WET LOCATIONS. ALL CIRCUIT BREAKER ENCLOSURES SHALL BE PROVIDED WITH HINGED COVERS AND PROVISIONS FOR PADLOCKING THE COVERS.
3. ALL EQUIPMENT CONTAINING MOTORS SHALL BE PROVIDED WITH A DISCONNECTING MEANS WITHIN TEN FEET OF THE UNIT UNLESS OTHERWISE NOTED. THIS DISCONNECTING MEANS SHALL AS A MINIMUM BE A NON-FUSED SWITCH OR TOGGLE STARTER SIZED TO MATCH THE EQUIPMENT. PROVIDE OTHER DEVICES AS NOTED ON THE PLANS. PROVIDE NEMA TYPE 1 ENCLOSURES INDOORS AND NEMA 3R OUTDOORS.
4. PROVIDE GFCI CIRCUIT BREAKERS AND RECEPTACLES AS INDICATED ON THE PLANS AND IN THESE SPECIFICATIONS. THESE DEVICES SHALL BE CLASS A GFCI DEVICES.

5. PROVIDE PANELS AS SCHEDULED ON PLANS. CIRCUIT BREAKERS SHALL BE THERMAL-MAGNETIC BREAKERS WITH A MINIMUM INTERRUPTING RATING OF 10,000 AIC FOR 120/208V AND 14,000 AIC FOR 277/480V OR AS INDICATED ON THE PLANS. BREAKERS SHALL HAVE 65/75 DEGREE C RATED TERMINATIONS. PANEL NOTED SHALL BE SERVICE ENTRANCE RATED. MOUNT PANELS WITH TOP OF PANEL 6 FT. ABOVE FLOOR. PROVIDE 3/4 IN., GREY PAINTED PLYWOOD BACKBOARD FOR ALL PANELS SECURED TO WALL WITH 1/4 IN. TOGGLE BOLTS. PANEL MANUFACTURERS: SQUARE D, GENERAL ELECTRIC (GE), SEIMENS, AND EATON. ALL CURRENT CARRYING PARTS SHALL BE COPPER. 1
6. PROVIDE PANELBOARDS AND LOAD CENTERS WITH SHORT CIRCUIT CURRENT RATINGS AS SERIES RATED EQUIPMENT BASED ON U.L. LISTED TEST RESULTS. THE CONTRACTOR SHALL VERIFY THE AVAILABLE SHORT CIRCUIT CURRENT AT THE SERVING TRANSFORMER.
7. PROVIDE EACH PANELBOARD WITH A TYPEWRITTEN CIRCUIT BREAKER DIRECTORY CARD INSIDE A PLASTIC COVERING (EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE. THE INDETIFICATION SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS). THE DIRECTORY AND COVERING SHALL BE LOCATED INSIDE A STEEL FRAME PROVIDED INSIDE THE DOOR OF EACH PANELBOARD. THE DIRECTORY SHALL BE TYPED TO IDENTIFY THE LOAD FED BY EACH CIRCUIT BREAKER AND THE AREAS SERVED.
8. PROVIDE NAMEPLATES FOR ALL PANELBOARDS, DISCONNECT SWITCHES, ENCLOSED CIRCUIT BRAKERS, COMBINATION STARTERS, CONTACTORS, AND ALL OTHER ELECTRICAL DISTRIBUTION EQUIPMENT PANELS. MOUNT NAMEPLATES ON EXTERIOR OF THE DOOR OF ALL SURFACE MOUNTED PANELS AND EQUIPMENT. NAME PLATES SHALL BE LAMINATED PLASTIC PLATES WITH 3/16 IN. HIGH WHITE LETTERS ETCHED ON BLACK BACKGROUND. NAME PLATES SHALL BE INSTALLED PARALLEL TO EQUIPMENT LINES. THE NAME OR USEAGE OF EACH DEVICE OR BRANCH CIRCUIT SHALL BE ETCHED IN THE NAMEPLATE. CONTRACTOR TO COORDINATE EXACT EQUIPMENT IDENTIFICATION WITH THE OWNER. SECURE NAMEPLATES VIA EPOXY GLUE.

SECTION D: LIGHTING

1. TYPES AND SPECIFIC REQUIREMENTS ARE PROVIDED ON THE LIGHTING FIXTURE SCHEDULE ON THE PLANS. ALL LIGHT FIXTURES SHALL BE PROVIDED WITH LAMPS, DRIVERS, BALLASTS, AND FULLY FUNCTIONING AT COMPLETION OF PROJECT.
2. ALL LED FIXTURES SHALL BE U.L. LISTED AND HAVE A MINIMUM OF 5 YEAR ON-SITE REPLACEMENT WARRANTY FOR DEFECTIVE OR NON-STARTING LED SOURCE ASSEMBLIES, DRIVERS, AND FOR LUMINAIRES EXHIBITING INADEQUATE LUMEN OUTPUT. IT SHALL COVER MATERIAL, FIXTURE FINISH, WORKMANSHIP, AND SHIPPING. ON-SITE REPLACEMENT SHALL INCLUDE TRANSPORTATION, REMOVAL, AND INSTALLATION OF NEW FIXTURE.

3. RATED LUMINAIRE WATTAGE SHALL BE ACTUAL, ACCOUNTING FOR ANY REDUCTION IN EFFICIENCY DUE TO SUB-OPTIMAL LOADING OF DRIVERS.

4. DRIVERS SHALL BE CAPABLE OF ACCEPTING THE VOLTAGE INDICATED ON THE LIGHTING FIXTURE SCHEDULE AND CAPABLE OF DIMMING IF REQUIRED. DRIVERS SHALL HAVE A CLASS A RATING, TOTAL HARMONIC DISTORTION OF LESS THAN 20%, AND SHALL NOT CONTAIN ANY POLYCHLORINATED BIPHENYL (PCB).
5. ALL LED FIXTURES SHALL BE TESTED TO IES LM-79 AND IES LM-80 STANDARDS. OUTDOOR FIXTURES SHALL BE IP65 RATED. LED'S, DRIVERS AND ALL COMPONENTS SHALL HAVE A SYSTEM LIFETIME OF 50,000 HOURS OR MORE AT 25 DEGREES CELSIUS AND SHALL MAINTAIN A MINIMUM OF 85% OF INITIAL LUMEN OUTPUT AFTER 55,000 HOURS OF OPERATION. LED'S SHALL HAVE COLOR RENDERING INDEX (CRI) OF 80 OR GREATER.
6. ALL SURFACE MOUNTED FIXTURES SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURE. ALL CEILING MOUNTED FIXTURES SHALL BE SUPPORTED FROM STRUCTURE AND BRACED TO PREVENT MOVEMENT IF IMPACTED.
7. ALL RECESSED FIXTURES IN LAY IN TYPE CEILINGS SHALL BE PROVIDED WITH GRID CLIPS TO FASTEN FIRMLY TO CEILING SUPPORT GRID. THE CEILING GRID SHALL BE SUPPORTED AT EACH CORNER OF A FIXTURE.
8. CONNECTION TO ALL FIXTURES IN LAYIN CEILING SHALL BE BY FLEXIBLE CONDUIT OF FOUR TO SIX FEET IN LENGTH. A GROUND CONDUCTOR WILL BE INCLUDED WITH THIS CONNECTION.
9. ALL LENSES ON FIXTURES SHALL BE 0.125 INCH THICK MINIMUM. ALL HOUSINGS SHALL BE 22 GAUGE STEEL MIN. AND HAVE A POST FABRICATION HIGH REFLECTIVE WHITE FINISH.

SECTION E: FIRE ALARM SYSTEM

1. ACCEPTABLE MANUFACTURERS: NOTIFIER, FIRE LITE, EDWARDS, SIMPLEX, OR SILENT KNIGHT.

2. PROVIDE A COMPLETE OPERABLE VOICE EVAC FIRE ALARM SYSTEM FOR THIS PROJECT. THE MAIN PANEL SHALL BE LOCATED AS SHOWN. THE FIRE ALARM SYSTEM SHALL BE DESIGNED FOR CLASS B OPERATION. THE WIRING FOR THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN 1/2 IN. ELECTRICAL METALLIC TUBING. PROVIDE INSULATED FITTINGS ON ALL CONDUIT ENDS. THE FIRE ALARM SHALL BE MADE IN THE USA AND BE UL LISTED. ALL WIRING AND DEVICES FOR THE SYSTEM SHALL BE SUPERVISED. COLOR CODE THE CONDUIT EVERY 24 IN. WITH RED MARKINGS (EXCEPT WHERE EXPOSED).
3. THE MAIN PANEL SHALL HAVE A BATTERY BACKUP AND BE SURGE PROTECTED. THE BATTERY SHALL BE CAPABLE OF PROVIDING NORMAL OPERATION FOR A PERIOD OF 24 HOURS WITH ENOUGH RESERVE TO ANNUCIATE A BUILDING ALARM FOR 90 MINUTES.
4. NEW DEVICES SHALL BE PROVIDED WITH RECESSED METAL BOXES. ALL DEVICES SHALL BE MOUNTED FLUSH WITH WALL EXCEPT FOR PULL STATIONS WHICH SHALL BE SEMI-FLUSH.
5. NEW HORN/STROBE DEVICES AND SPEAKER/STROBE DEVICES SHALL MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT. THE SPEAKER SHALL PRODUCE A SOUND LEVEL OF 90 DECIBELS AND THE STROBE SHALL PRODUCE A FLASHING PULSE OF LIGHT OF 75 CANDELA. BOTH SOUND PRESSURE AND STROBE INTENSITY SHALL BE FIELD SELECTABLE AND ADJUSTABLE.

6. STROBE DEVICES SHALL PRODUCE A FLASHING PULSE OF LIGHT OF 75 CANDELLA.
7. NEW PULL STATIONS SHALL BE NON-GLASS-BREAK TYPE AND KEYED THE SAME AS THE FIRE ALARM PANEL.

8. THE SMOKE DETECTORS SHALL BE THE PHOTOELECTRIC TYPE POWERED FROM THE MAIN FIRE ALARM PANEL.

9. THE GENERAL BUILDING ALARM WILL SOUND WHEN ACTIVATED AT THE CONTROL PANEL, BY SMOKE OR HEAT DETECTORS, OR BY A PULL STATION. ALARM WILL ALSO SOUND WHEN ACTIVATED BY A DUCT SMOKE DETECTOR OR SPRINKLER.

10. THE MAIN PANEL SHALL PROVIDE INDICATION OF EACH INITIATING DEVICE LOCATION FOR ALARM, TROUBLE AND SUPERVISORY CONDITIONS. THE PANEL SHALL HAVE LAMP TEST, ALARM SILENCE, TROUBLE AND SUPERVISORY SILENCE, SYSTEM RESET, AND ALARM INITIATE CONTROLS. THE PANEL SHALL ALSO INDICATE VOLTAGE AND BATTERY TEST. THE PANEL SHALL ALSO INCLUDE AN LCD DISPLAY. PANEL SHALL BE IN A SURFACE MOUNTED ENCLOSURE WITH LOCKABLE, SEE THROUGH, HINGED FRONT COVER.

11. THE FIRE ALARM PANEL SHALL BE EQUIPPED WITH A DIGITAL TRANSMITTER AND CELLULAR COMMUNICATOR FOR OFF PREMISES REMOTE MONITORING (FIRE DEPARTMENT) DURING ALARM CONDITION. PROVIDE 3/4 IN. CONDUIT FROM FIRE ALARM PANEL TO TELEPHONE BACKBOARD. FIELD COORDINATE.

12. PROVIDE REMOTE ANNUNCIATOR PANEL AS SHOWN ON PLANS. THE ANNUNCIATOR PANEL SHALL BE PROVIDED WITH AN LCD DISPLAY AND COMPLETE CONTROL PUSH BUTTONS INCLUDING, BUT NOT LIMITED TO, ALARM ACKNOWLEDGE, ALARM SILENCE, RESET, ETC.

13. PROVIDE PHOTO ELECTRIC TYPE DUCT MOUNTED SMOKE DETECTORS WHERE SHOWN IN HVAC SUPPLY DUCT. UNIT SHALL HAVE SAMPLING TUBES THAT EXTEND THE WIDTH OF THE DUCT. PROVIDE REMOTE INDICATOR ACCESSIBLE IN NEAREST MECH/ELEC ROOM FOR EACH DETECTOR, WHICH WILL INDICATE WHICH DETECTOR IS ACTIVATED.

14. FLOW AND TAMPER SWITCHES SHALL BE PROVIDED AND INSTALLED UNDER DIVISION 25 AND CONNECTED TO FIRE ALARM UNDER DIVISION 26. POWER SUPPLY SHALL BE 24 V. DC. SUPPLIED BY FIRE ALARM SYSTEM. PROVIDE ADDRESSABLE MONITORING MODULE FOR ALL DEVICES / SWITCHES.

15. NEW HEAT DETECTORS SHALL BE COMBINATION TYPE, RATE OF RISE AND FIXED TEMP, SET INITIALLY TO MINIMUM 135 DEGREES F, AND SHALL BE RATED FOR 200 DEGREES F.

16. VOICE EVACUATION CONTROL FUNCTIONS ARE TO BE INTEGRATED INTO THE OVERALL FIRE ALARM CONTROL PANEL, AND SHALL PROVIDE MICROPHONES / HANDSETS, AMPLIFIERS, POWER SUPPLIES, SWITCH CONTROLS, AND STATUS INDICATION. THE VOICE EVACUATION CONTROLS SHALL HAVE CAPABILITY AND FUNCTIONALITY TO HAVE AUTOMATED VOICE MESSAGES AS WELL AS LIVE MESSAGING. AUTOMATED MESSAGING SHALL HAVE CAPABILITY TO STORE AND PRIORITIZE UP TO 16 AUTOMATED MESSAGES IN STANDARD MEMORY. SWITCH CONTROLS SHALL ALLOW FOR SELECTION OF INDIVIDUAL SPEAKERS, SPEAKER CIRCUITS, ZONES, OR GROUPS OF DEVICES FOR ANNUNCIATION.

17. SEE FIRE ALARM SUBCONTRACTOR SUBMITTAL TO AUTHORITY HAVING JURISDICTION ON SHEET E-5.4 FOR ADDITIONAL REQUIREMENTS. FIRE ALARM SUBCONTRACTOR IS RESPONSIBLE FOR ALL ADDITIONAL DEVICES AND EQUIPMENT AS REQUIRED TO MEET ALL NFPA, IBC, GEORGIA STATE, AND LOCAL CODES.

ALPHA BLDG SET 08-27-2024

PHASE 1

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ELECTRICAL SPECIFICATIONS

Sheet No.:
E-0.2

ELECTRICAL SPECIFICATIONS

SECTION F: TELEPHONE/DATA SYSTEMS

WORK INCLUDED:

1. WORK SHALL INCLUDE PROVISIONS FOR A COMPLETE TELEPHONE/DATA CABLING SYSTEM INCLUDING: TELEPHONE/DATA COMBINATION OUTLETS, CABLING, CONDUIT, BOXES, TELEPHONE AND DATA PUNCH DOWN BLOCKS, J-HOOKS, LADDER TRAY, AND PLYWOOD BACKBOARDS.

SCOPE OF PROJECT, STANDARDS, AND DESCRIPTION:

1. THE CABLING AND WIRING PLACED FOR VOICE AND DATA COMMUNICATIONS ON THIS UNDERTAKING SHALL BE 'UNSHIELDED TWISTED PAIR' TYPE AND CONFORM TO THE REQUIREMENTS CONTAINED IN THE LASTEST EDITIONS OF THE NATIONAL ELECTRIC CODE (NEC) AND THE LASTEST EDITIONS OF THE FOLLOWING AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) SPECIFICATIONS:

A. EIA-TIA-568 COMMERCIAL BUILDING TELECOMMUNICATIONS WIRING.
B. STANDARD B. EIA-TIA-569 COMMERCIAL BUILDING STANDARD FOR TELECOMM, PATHWAYS AND SPACES.
C. TIA/EIA-606 ADMINSTRATION STANDARD FOR THE TELECOMM. INFRASTRUCTURE OF COMMERCIAL BUILDINGS.
D. TIA/EIA-607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS.
E. SUPPLEMENTS TO EIA/TIA-568 TECHNICAL SYSTEMS BULLETINS.
F. TSB-36 ADDITIONAL TRANSMISSION SPECIFICATIONS FOR UNSHIELDED TWISTED PAIR CABLES.
G. TSB-40 ADDITIONAL TRANSMISSION SPECIFICATIONS FOR UNSHIELDED TWISTED PAIR HARDWARE.

WORKMANSHIP:

1. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER. ARCHITECT, ENGINEER, AND/OR OWNER MAY OBSERVE THE WORK PROCEDURES AND WORKMANSHIP OF THE CONTRACTOR BUT SUCH OBSERVATION WILL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR PERFORMANCE.

WARRANTY:
1. THE CONTRACTOR SHALL FURNISH A WRITTEN WARRANTY THAT DESCRIBES THE EQUIPMENT SUPPLIED UNDER THESE SPECIFICATIONS WILL BE FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF FIVE YEARS AND THE CABLE PLANT/LABOR WILL BE FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF FIVE YEARS FROM THE DATE OF FINAL ACCEPTANCE UNLESS OTHERWISE SPECIFIED AND THAT ALL DEFECTS OCCURING WITHIN THAT PERIOD SHALL BE CORRECTED IN A TIMELY MANNER AT NO COST TO THE OWNER.

CONTRACTOR'S QUALIFICATIONS:
1. CONTRACTOR SHALL BE REQUIRED, BEFORE AWARDING OF CONTRACT, TO DEMONSTRATE TO THE COMPLETE SATISFACTION OF THE ARCHITECT THAT HE HAS THE NECESSARY FACILITIES, ABILITY AND FINANCIAL RESOURCES TO EXECUTE THE WORK IN A SATISFACTORY MANNER AND WITHIN THE TIME SPECIFIED; THAT HE HAS HAD EXPERIENCE IN CONSTRUCTION WORK AS SAME OR SIMILAR NATURE; THAT HE HAS PAST HISTORY AND REFERENCES WHICH WILL ASSURE THE OWNER OF HIS QUALIFICATIONS FOR EXECUTING THE WORK.

2. CONTRACTOR SHALL SUBMIT A COPY OF A VALID LOW-VOLTAGE LICENSE (LOW-VOLTAGE GENERAL, LOW-VOLTAGE TELECOMMUNICATIONS OR LOW-VOLTAGE UNRESTRICTED AS ISSUED BY THE STATE CONSTRUCTION INDUSTRY LICENSING BOARD OF LOW-VOLTAGE CONTRACTORS).

3. CONTRACTOR SHALL SUBMIT A COPY OF BICSI (BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL) CERTIFIED RCDD (REGISTERED COMMUNICATIONS DISTRIBUTIONS DESIGNER) CERTIFICATE.

4. COMPREHENSIVE LIST OF REFERENCES: ATTACH A DETAILED LIST OF REFERENCES ALONG WITH CONTACT PERSON, DATES OF WORK, MAILING ADDRESS, TELEPHONE NUMBERS.

5. CONTRACTOR MUST PROVIDE PROOF OF INSTALLATION IN A MINIMUM OF FIVE SITES USING AN CATEGORY 6 STRUCTURED CABLING WITH 100 OR MORE ACTIVE (WORKING) NODES INSTALLED.

SUBMITTALS:

1. SUBMIT PRODUCT DATA CONSISTING OF MANUFACTURER'S PUBLISHED LITERATURE AND AS SPECIFIED FOR:
A. LITERATURE FOR EACH SEPARATE TYPE OF EQUIPMENT BEING PROVIDED. INDICATE MODEL NUMBER ON CUTSHEET.

B. ONE LINE SCHEMATIC OF COMPLETE SYSTEM SHOWING A FLOOR PLAN TO SCALE. SHOW LOCATIONS AND THE TYPE OF OUTLETS, AS WELL AS ALL RACK LOCATIONS, AND CABLING TYPE.
C. DOCUMENTATION OF TESTING ON ALL WIRING AND TERMINATIONS AS PER EIA/TIA STANDARDS.

MAUFACTURERS:

1. ACCEPTABLE MANUFACTURERS FOR EACH TYPE OF EQUIPMENT SPECIFIED SHALL BE AS NOTED THROUGHOUT THIS SPECIFICATION SECTION.

2. THE ACCEPTABLE MANUFACTURERS NOTED SHALL BE INSTALLED BY THE AUTHORIZED LOCAL FACTORY DEALER/ REPRESENTATIVE FOR THAT PRODUCT.

3. THE CONTRACTOR SHALL HOLD A CURRENT LOW VOLTAGE CONTRACTOR'S LICENSE AND RCDD CERTIFICATE. ANY OTHER INTERESTED PARTIES SHALL SUBMIT A COMPANY RESUME SHOWING YEARS IN BUSINESS, CERTIFICATION STATING THAT HE IS AN AUTHORIZED REPRESENTATIVE FOR THE MANUFACTURER OF THE EQUIPMENT HE IS SUBMITTING FOR APPROVAL AND THAT HE MAINTAINS A FULLY EQUIPPED AND STOCKED SERVICE SHOP AND SHALL RESPOND TO SERVICE CALLS WITHIN 12 NORMAL WORKING HOURS, LIST OF KEY PERSONNEL, COPIES OF APPROPRIATE LICENSES AND LIST OF RECENTLY COMPLETED JOBS.

TELEPHONE/DATA JACK AND OUTLET SPECIFICATIONS:

1. LOCATIONS SHOWN ON DRAWINGS WILL BE EQUIPPED WITH A CONSISTENT ARRANGEMENT OF LAN COMMUNICATIONS OUTLETS. PROVIDE JACKS IN OUTLETS (AS DETAILED ON DRAWING). PROVIDE COLORED ICONS AS INDICATED ON DRAWINGS.
2. OUTLET FACEPLATE FOR THIS ARRANGEMENT SHALL BE CONFIGURED IN THE FOLLOWING FASHION:

A. THE JACKS USED SHALL FIT PROPERLY IN THE OUTLET OPENINGS OF THE OUTLET FACEPLATE. THE JACKS USED ALSO CONFORM TO PARAMETERS SET IN EIA/TIA 568, TSB36 AND TSB40A.

B. IN A PROPERTY INSTALLED CATEGORY 6 UTP WIRING ARRANGEMENT. C. THE WIRING ARRANGEMENT OF THE JACK SHALL CONFORM TO THE EIA/TIA 568, TSB36 AND TSB40A.
3. THE JACK SHALL POSSESS THE FOLLOWING CHARACTERISTICS:

A. THE EIGHT (8) POSITION/ EIGHT (8) CONDUCTOR JACK SHALL BE CAPABLE OF SUPPORTING THE PREVIOUSLY DEFINED DATA RATES AS WELL AS VOICE (INCLUDING ISDN).

B. UTILIZATION OF 110 TYPE OR EQUIVALENT INSULATION DISPLACEMENT HARDWARE FOR HORIZONTAL WIRE ATTACHMENT AND ACCEPTANCE OF 22 OR 24 AWG CONDUCTORS.
C. THE JACK WIRES SHALL CONSIST OF 50 MICRO-INCH LUBRICATED GOLD PLATING OVER 100 MICRO-INCH NICKEL UNDERPLATING.
D. ANY VACANT FACEPLATE POSITION SHALL BE RESERVED FOR FUTURE GROWTH AND SHOULD HAVE A DUST COVER/BLANK INSERTED.
4. ACCEPTABLE MANUFACTURER'S: ORTRONICS, SERIES 11 568 B JACKS AND HUBBELL.
5. WIRELESS ACCESS POINTS SHALL HAVE A BISCUIT JACK AT THE CEILING WITH TWO CAT 6 CABLES AND JACKS.

TELEPHONE/DATA HORIZONTAL WIRING SPECIFICATIONS: (BERK-TEK LANMARK 1000 (CAT 6) CABLE)

1. THIS SECTION COVERS THE CABLE FROM THE COMMUNICATIONS OUTLETS TO THE PUNCH DOWN BLOCK. THESE CABLES SHALL BE AS INDICATED ON DRAWINGS UNSHIELDED TWISTED PAIR CABLE, EACH CABLE SHALL BE PLACED IN A POINT 'POINT-TO-POINT' FASHION FROM THE OUTLET TO THE WIRING CLOSET FOR EACH COMMUNICATIONS OUTLET NEEDED. THERE SHALL BE NO INTERMEDIATE SPLICES OR CROSS CONNECTS IN THESE CABLES. PROVIDE ONE (1) CABLE FOR EACH JACK. SEE DRAWINGS FOR NUMBER OF JACKS IN EACH OUTLET. CABLE SHALL BE BLUE IN COLOR. CABLE SHALL BE PLENUM RATED.

2. THE CHARACTERISTICS OF THE HORIZONTAL CABLE ARE AS FOLLOWS:
A. CABLE CONSISTING OF FOUR (4) PAIR OF 23 AWG BARE SOLID COPPER CONDUCTORS INSULATED WITH A PLENUM RATED MATERIAL. THE INSULATED CONDUCTORS ARE TIGHTLY TWISTED INTO PAIRS AND JACKETED WITH FLOUROPOLYMER. NO TYPE OF [illegible] IS REQUIRED IN THE CABLE.
B. EACH JACKET CONTAINS TWO, THREE OR FOUR UNSHIELDED COPPER PAIRS, EACH PAIR SHALL HAVE A DIFFERENT NUMBER OF TWISTS PER FOOT RANGING FROM 12 TO 24 TWISTS PER FOOT. NO CABLE THAT HAS BEEN UNWOUND BE UNTWISTED AND THE SHEATH MAY NOT BE STRIPPED BACK MORE THAN 1/2 INCH AT THE JACK DURING INSTALLATION.
3. THE CABLE SHALL MEET OR EXCEED THE FOLLOWING REQUIREMENTS:
A. EIA/TIA 568 'COMMERCIAL BUILDING WIRING STANDARD,' HORIZONTAL CABLE SECTION.
B. EIA/TIA TSB-36 'TECHNICAL SYSTEM BULLETIN ADDITIONAL CABLE SPECIFICATIONS FOR UNSHIELDED TWISTED PAIR CABLES, 'CATEGORY 6'.
C. PROPOSED ANSI X3T9.5 REQUIREMENTS FOR UTP AT 100 MBPS.
D. CERTIFIED LEVEL 6 CABLE UNDER UL'S LAN CABLE CERTIFICATION PROGRAM.
E. IEEE 802.3
F. ICEA S80-576
G. UL SUBJECT 444
H. PUB 48007
I. TA-TSO00133
J. NATIONAL ELECTRIC CODE - ARTICLE 800

4. THE CABLES SHALL MEET THE FOLLOWING REPRESENTATIVE ELECTRICAL AND TRANSMISSION CHARACTERISTICS:
A. MUTUAL CAPACITANCE (PF/FT.): 14 (NOM.)
B. IMPEDANCE Z (OHMS FROM 1-25 MHZ): 100 (+/-15%)
C. DC RESISTANCE - MAX . - (OHMS/1000 FT.): 28.6
D. ATTENUATION - MAXIUM: FREQUENCY (MHZ) - DB/1000 FT. - DB/100 M.

1	-	6.3 - 2.1
4	-	13 - 4.3
10	-	20 - 6.6
16	-	25 - 8.2
20	-	28 - 9.2
25	-	32 - 10.2
31.25	-	36 - 11.8
62.5	-	52 - 17.1
100	-	67 - 21.9

(TEST TO 400 MHZ AT LEVELS PROVIDED BY MFG.)
E. WORST PAIR-TO-PAIR NEAR END CROSSTALK: FREQ. (MHZ) - WORST PAIR NEXT - (DB)

1	-	62
4	-	53
10	-	47
16	-	44
20	-	42
25	-	41
31.25	-	40
62.5	-	35
100	-	32

(TEST TO 400 MHZ AT LEVELS PROVIDED BY MFG.)

DATA PATCH PANEL SPECIFICATIONS:

1. THIS SECTION COVERS THE TERMINATION HARDWARE LOCATED ON THE WALL DATA BACKBOARD. THE TERMINATION HARDWARE SHALL PROVIDE THE CAPABILITY TO BE ABLE TO PATCH CONNECTIONS BETWEEN PORTS ON THE LAN HARDWARE (ELECTRONICS BY OTHERS, N.I.C.) AND HORIZONTAL CABLES TO THE OUTLETS.

2. THE PATCH PANELS SHALL BE CATEGORY 6 MODULAR JACK PANELS (ORTRONICS CAT 6 OR HUBBELL).

3. THE TERMINATION HARDWARE SHALL BE LOCATED ON 19 IN. WALL MOUNTED CABINET. THE CONFIGURATION OF THE PATCH PANELS SHALL BE IN AN AGREEMENT THAT MINIMIZES PATCH CORD LENGTHS. PROVISIONS FOR CABLE MANAGEMENT AND PATCH CORDS (ORGANIZATION OF HORIZONTAL CABLE AND PATCH CORDS) ON THE RACK SHOULD BE INCLUDED.

4. POTENTIAL HORIZONTAL CABLES TO THE OUTLETS WILL BE DIRECTLY CONNECTED TO 110 INSULATION DISPLACEMENT HARDWARE OR EQUIVALENT ASSOCIATED WITH EACH JACK ON THE PATCH PANEL. THE JACKS ON THE PATCH PANEL SHALL BE WIRED TO THE EIA 568B WIRING STANDARD.

5. CATEGORY 6, FACTORY BUILT, MANUFACTURE TESTED PATCH CORDS SHALL BE PROVIDED FOR EACH HUB/SWITCH-PORT PROVIDED.

FIBER OPTIC BACKBONE: (SERVICE TO BUILDING BY SERVING UTILITY)

TELEPHONE CABLES SHALL BE THE SAME AS DATA TERMINATIONS AT OUTLET AND PATCH PANEL.

CONDUIT, RACEWAY, AND BACKBOARDS:

1. PROVIDE 1 IN. EMT FROM EACH OUTLET TO 12 INCHES ABOVE ACCESSIBLE CEILING. PROVIDE 4 IN. SQUARE BACKBOX WITH SINGLE GANG PLASTER RING FOR EACH TELEPHONE/DATA OUTLET. ALL CONDUIT SHALL BE CONCEALED. PROVIDE FACEPLATE WITH MODULAR JACKS. PROVIDE PULL STRING IN ALL EMPTY CONDUITS.

2. WHERE PLASTER OR UNACCESSIBLE CEILINGS ARE PRESENT, PROVIDE 1 IN. EMT FROM EACH OUTLET TO TELEPHONE BACKBOARD OR TELEPHONE CONNECTION POINT AS DESCRIBED IN THE CONTRACT DOCUMENTS. PROVIDE 4 IN. SQUARE BACKBOX WITH SINGLE GANG PLASTER RING FOR EACH TELEPHONE/DATA OUTLET. ALL CONDUIT SHALL BE CONCEALED. PROVIDE FACEPLATE WITH MODULAR JACKS. PROVIDE PULL STRING IN ALL EMPTY CONDUITS.

3. SERVICE CONDUIT: PROVIDE (4) 3 INCH CONDUIT AND CABLE IN LOCATIONS NOTED ON DRAWINGS, FROM D-MARK POINT OUTSIDE BUILDING TO COMM ROOM. FIBER SERVICE BY SERVING UTILITY COMPANY.

4. BACKBOARD: PROVIDE PLYWOOD BACKBOARD AS DESCRIBED UNDER 'SUPPORTING DEVICES' IN THESE ELECTRICAL SPECIFICATIONS.

CABLE MANAGEMENT PANEL:
1. PAINTED STEEL PANEL FOR STANDARD 19 IN. RACK MOUNTING, WITH FIVE HORIZONTAL 3 IN. X 4 IN. CABLE MANAGEMENT RINGS.

UNINTERRUPTIBLE POWER SUPPLY FOR DATA RACK:

1. THE NETWORK HUB/SWITCH UNIT SHALL BE PLUGGED INTO AN UNINTERRUPTABLE POWER SUPPLY WHICH OPERATES IN A HOT STANDBY STATE WHEN THE AC POWER IS PRESENT, PROVIDING POWER OF CONSISTENT QUALITY. ALSO, THE SWITCH TIME MUST NOT BE MORE THAN 3.5 MICROSECONDS. UPS SHALL BE RACK MOUNTED AND BE A MINIMUM OF 1000 VA CAPACITY.

PULL AND JUNCTION BOX COVER IDENTIFICATION:
1. SEE EQUIPMENT IDENTIFICATION IN THIS ELECTRICAL DIVISION OF THE SPECIFICATIONS.

LABELING:

1. SYSTEM SHALL BE COMPLETELY LABELED, WITH CIRCUIT NUMBERS INDICATED ON THE PATCH PANEL, OUTLET JACKS, AND BOTH ENDS OF THE CABLE. PROVIDE A LIST INDICATING CIRCUIT NUMBERS INSTALLED TO EACH SPACE.

TESTING AND CERTIFICATION:
1. TESTING COPPER DISTRIBUTION SYSTEMS ARE CRUCIAL IN ASSURING THE OVERALL INTEGRITY AND SATISFACTORY PERFORMANCE OF THE NETWORK. TEST RESULTS QUANTIFY SYSTEM QUALITY, IDENTIFY SYSTEM FAULTS, AND ESTABLISH THE BASELINE ACCOUNTABILITY PERFORMANCE OF THE SYSTEM. PROPER TESTING ALSO MAXIMIZES THE LONGEVITY OF THE SYSTEM, MINIMIZES DOWNTIME AND MAINTENANCE, AND FACILITATES SYSTEM UPGRADES OR RECONFIGURATION.

2. THE CONTRACTOR SHALL PROVIDE PROOF OF COMMUNICATIONS WIRING SYSTEMS CERTIFICATION AND TESTING CERTIFICATION.

3. ALL DATA WIRING AND TERMINATIONS SHALL BE TESTED AND MUST PASS EIA/TIA STANDARDS FOR CATEGORY 6 WIRING. ALL WIRING AND TERMINOLOGY FOR VOICE CABLE SHALL BE TESTED FOR CONTINUITY. ALL FAULTS SHALL BE CORRECTED.
4. ALL TEST RESULTS MUST BE PRINTED AND SHOW THE FOLLOWING RESULTS:
IMPEDANCE (TDR), CABLE LENGTH, ATTENUATION, NEAR END CROSS TALK (NEXT), LINE MAPPING, DC OHMS, OTDR.

GUARANTEES:

1. ALL COMMUNICATION OUTLETS WIRED AND SERVICEABLE MUST BE TESTED AND CERTIFIED IN COMPLIANCE WITH THE ANSI/IEEE 802.3 AND EIA/TIA 568 CATEGORY 6 SPECIFICATIONS. TESTING MUST BE 'END-TO-END'. TEST RESULTS SHALL BE FORWARDED TO ARCHITECT A MINIMUM OF ONE WEEK PRIOR TO FINAL INSPECTION.

SECTION G: TELEVISION DISTRIBUTION SYSTEM

SUBMITTALS:

1. SHOP DRAWINGS CONSISTING OF MANUFACTURER'S PUBLISHED LITERATURE.

MANUFACTURERS:

1. ACCEPTABLE MANUFACTURERS ARE LEVITON AND WEST PENN.

2. THE ACCEPTABLE MANUFACTURERS SYSTEMS LISTED ABOVE SHALL BE INSTALLED BY THE AUTHORIZED LOCAL FACTORY DEALER/REPRESENTATIVE FOR THAT PRODUCT. THE FACTORY DEALER/REPRESENTATIVE SHALL HOLD A CURRENT LOW VOLTAGE CONTRACTORS'S LICENSE.

SCOPE:

1. PROVIDE A COMPLETE OPERATIONAL CABLE ELECTRONIC DISTRIBUTION SYSTEM INCLUDING CONDUIT, WIRING, SPLITTERS, OUTLETS, J-HOOKS, AND ALL OTHER ACTIVE AND INACTIVE DEVICES NECESSARY FOR THE ACQUISITION, PROCESSING AND DISTRIBUTION OF TELEVISION CHANNELS.

GENERAL REQUIREMENTS:

1. ALL EQUIPMENT SHALL BEAR THE LABEL OF UNDERWRITER'S LABORATORIES AND BE TESTED FOR USE UNDER THEIR RE- EXAMINATION SERVICE.

2. ALL WIRING SHALL BE RUN IN CONDUIT/J-HOOK SYSTEM AND TV SUBCONTRACTOR SHALL PULL ALL WIRE AND MAKE UP ALL CONNECTIONS.

3. THE ENTIRE DISTRIBUTION SYSTEM SHALL COMPLY WITH FCC RADIATION REGULATIONS.

4. THE TELEVISION SYSTEM INSTALLER SHALL BE AN AUTHORIZED DISTRIBUTOR FOR THE EQUIPMENT SUPPLIED UNDER THIS CONTRACT. HE SHALL MAINTAIN UNDER HIS DIRECT CONTROL A SERVICE ORGANIZATION CAPABLE OF FURNISHING SERVICE UNDER THE FOLLOWING WARRANTY STATEMENT:
THE WARRANTY SHALL COVER SERVICE, TRAVEL, AND PARTS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE, WITH A SECOND YEAR SERVICE CONTRACT TO BE OFFERED UPON EXPIRATION OF THE WARRANTY. THE PRICE OF THE SECOND YEAR CONTRACT OFFER SHALL BE SPECIFIED AT THE TIME THE ORIGINAL CONTRACT IS ACCEPTED. INSTALLER EMPLOYED BY THE CONTRACTOR SHALL POSSESS THE APPROPRIATE LOW VOLTAGE INSTALLER LICENSE ISSUED BY THE GEORGIA SECRETARY OF STATE.

5. THE TV SYSTEM INSTALLER SHALL COORDINATE SERVICE INSTALLATION WITH THE LOCAL CABLE TV COMPANY MAKING ALL ARRANGEMENTS FOR CABLE SERVICE AND PAYING ALL COSTS ASSOCIATED WITH SAME.

EQUIPMENT:

1. SPLITTING/COMBINING DEVICES SHALL BE HYBRID TYPE, HAVING ESSENTIALLY FLAT RESPONSE ACROSS THE FREQUENCIES UTILIZED ON THE SYSTEM. ALL SPLITTERS AND DIRECTIONAL COUPLERS SHALL BE HOUSED IN ENVIRONMENTAL HOUSING. ALL DEVICES SHALL HAVE 'F' TYPE FITTINGS. DIRECTIONAL COUPLERS SHALL BE JERROLD DC-B SERIES. SPLITTERS SHALL BE JERROLD 1596C/1597B.

2. TV OUTLET SHALL BE AN ALL-CHANNEL FEED THROUGH UNIT (O-DB) FOR CONNECTING THE TV SIGNAL TO THE OWNER FURNISHED TV. THE UNIT SHALL HAVE A PATENTED UNIVERSAL BUSHING CABLE CONNECTOR WHICH FITS CAC-6 TYPE CABLE. AN IVORY PLASTIC SADDLE SHALL BE FURNISHED AND THE OUTLET SHALL BE ADAPTABLE TO A STANDARD DUPLEX, STAINLESS STEEL COVERPLATE, JERROLD UT-12.

3. COAXIAL CABLE SHALL BE 75 OHMS NOMINAL IMPEDANCE AND SHALL BE MARKED WITH THE MANUFACTURER'S NAME, EACH CARTON OR ROLL OF CABLE SHALL DISPLAY CERTIFICATION THAT IT HAS BEEN SWEEP TESTED BY THE MAKER BEFORE SHIPPING. THE CABLE SHALL BE JERROLD CAC-II TYPE. HEAD END HOOK-UP CABLES AND TV SET CONNECTING CABLES SHALL BE OF THE RG-6 TYPE. SUPPLY ONE TV SET CONNECTING CABLE OF RG-6 WITH 'F' AND 'G' CONNECTORS FOR EACH OUTLET. CABLE SHALL BE RATED FOR UNDERGROUND INSTALLATION.

EXECUTION:

1. BEFORE THE CONTRACT IS CONSIDERED COMPLETE, THE CONTRACTOR MUST CONDUCT AN OPERATING TEST FOR APPROVAL. THE SYSTEM MUST BE DEMONSTRATED TO OPERATE IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS.

CONDUIT SYSTEM:

1. PROVIDE CONDUIT AND OUTLET BOXES FOR THE INSTALLATION OF TELEVISION WIRING TO TELEVISION HEAD AND LOCATION.

2. LOCATION OF TV OUTLETS SHALL BE AS SHOWN ON THE DRAWINGS.

3. HEIGHT OF TV OUTLETS SHALL BE AS NOTED ON THE DRAWINGS. ALL OUTLET BOXES SHALL BE TWO GANG TYPE, 4 IN. X 4 IN. X 2 1/4 IN. DEEP, WITH SINGLE GANG PLASTER RINGS. PLASTER RINGS SHALL BE 11/2 IN. DEEP AND SHALL BE FLUSH WITH THE FINISH OF WALL.

4. TV OUTLET BOXES SHALL HAVE ONLY ONE ENTRY OF 3/4" CONDUIT. DO NOT USE OUTLET BOX AS JUNCTION POINT BECAUSE THE EQUIPMENT SMALL ENOUGH TO FIT THIS SIZE IS NOT ACCEPTABLE.

5. CONDUIT AND OUTLET BOXES AND THEIR INSTALLATION SHALL BE AS COVERED UNDER SECTION B OF THESE SPECIFICATIONS.

SECTION H: DRY TYPE TRANSFORMERS

DRY TYPE TRANSFORMER:
1. MANUFACTURERS: ACCEPTABLE MANUFACTURERS ARE AS FOLLOWS:
SQUARE D, GENERAL ELECTRIC, EATON, OR SIEMENS.
2. GENERAL: TRANSFORMERS SHALL BE RATED 480 VOLT DELTA 120/208 VOLT WYE OR AS OTHERWISE NOTED WITH KVA RATINGS AS INDICATED ON DRAWINGS. AUTOTRANSFORMERS ARE NOT ACCEPTABLE.

3. ENCLOSURES: ALL VENTILATING OPENINGS SHALL BE OF THE LOUVERED TYPE. THE BASE OF THE TRANSFORMER SHALL BE CONSTRUCTED OF MINIMUM TWELVE GAUGE STEEL WITH STAMPED OPENINGS FOR VENTILATION. THE ENCLOSURE COATING SHALL BE UL RECOGNIZED FOR OUTDOOR USE, COLOR ANSI 49.

4. TAPS: ALL TRANSFORMERS 15 KVA AND LARGER SHALL HAVE TWO 2-1/2% FULL CAPACITY TAPS ABOVE AND FOUR 2-1/2% FULL CAPACITY TAPS BELOW NORMAL RATED PRIMARY VOLTAGE.

5. INSULATION: TRANSFORMERS WITH THE RATINGS THROUGH 25 KVA SHALL HAVE EITHER CLASS B INSULATION AND BE DESIGNED SO THAT UNDER FULL LOAD THE AVERAGE CONDUCTOR TEMPERATURE DOES NOT EXCEED 80 DEGREE C RISE ABOVE 40 DEGREE C AMBIENT, OR CLASS H INSULATION AND BE DESIGNED SO THAT UNDER FULL LOAD THE AVERAGE CONDUCTOR TEMPERATURE DOES NOT EXCEED 115 DEGREE C RISE ABOVE 40 DEGREE C AMBIENT. TRANSFORMERS WITH RATINGS 30 KVA OR LARGER SHALL BE CONSTRUCTED WITH CLASS H INSULATION AND SO DESIGNED THAT UNDER FULL LOAD THE AVERAGE CONDUCTOR TEMPERATURE DOES NOT EXCEED 115 DEGREE C RISE.

6. COILS:

A. TRANSFORMER COILS MUST BE VACUUM IMPREGNATED WITH NON-HYGROSCOPIC, THERMOSETTING VARNISH, AND SHALL HAVE A FINAL WRAP OF ELECTRIC INSULATING MATERIAL DESIGNED TO PREVENT INJURY TO THE MAGNET WIRE. TRANSFORMERS HAVING COILS WITH MAGNET WIRE VISIBLE WILL NOT BE ACCEPTABLE.

B. THE CORE AND COIL SHALL BE ISOLATED FROM THE ENCLOSURE BY MEANS OF VIBRATION ABSORBING MOUNTS. THERE SHALL BE NO METAL-TO-METAL CONTACT BETWEEN THE CORE AND COIL AND THE ENCLOSURE. ON UNITS 500 KVA AND SMALLER, THE VIBRATION ISOLATING SYSTEM SHALL BE SO DESIGNED AS TO PROVIDE FOR CONTINUAL SECUREMENT OF THE CORE AND COIL UNIT TO THE ENCLOSURE.

C. NEUTRAL TERMINAL SIZE SHALL BE DOUBLED (200% OF SECONDARY RATED PHASE CURRENT) FOR OVERSIZE NEUTRAL INSTALLATION.

D. SOUND LEVELS SHALL NOT EXCEED: 15 TO 50 KVA - 45 DB; 51 - 150 KVA - 50 DB; OR AS OTHERWISE NOTED ON THE DRAWINGS.

E. TRANSFORMER SHALL CONTAIN FULL WIDTH ELECTROSTATIC.

F. TRANSFORMERS SHALL BE CONSTRUCTED OF REDUCED CORE FLUX TO COMPENSATE FOR HARMONIC DISTORTION.

INSTALLATION:

1. THE CORE AND COILS SHALL BE VISIBLY GROUNDED TO THE FRAME OF THE TRANSFORMER CUBICLE BY MEANS OF A FLEXIBLE GROUNDING STRAP.

2. PROVIDE RUBBER-IN-SHEAR VIBRATION ISOLATOR UNDER EACH TRANSFORMER CORNER. BOLT THE ISOLATOR TO THE TRANSFORMER AND TO THE HOUSEKEEPING PAD.

3. COORDINATE TRANSFORMER SUSPENSION WITH ARCHITECT TO MINIMZE NOISE TRANSMISSION. IN EACH SUSPENSION ROD, PROVIDE A SPRING HANGER ISOLATOR.

ALPHA BLDG SET 08-27-2024

PHASE I

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ELECTRICAL SPECIFICATIONS

SECTION J

EMERGENCY GENERATOR SYSTEM

PART 1. GENERAL

1.1 SECTION SUMMARY

A. Requirements contained in this Specification shall apply to and govern the work under this Section.

1.2 WORK INCLUDED

A. Provide labor and material necessary to install a standby diesel engine-generator set of the latest commercial type and design as specified herein.

1.3 SUBMITTALS

A. The Contractor shall furnish information showing manufacturers' model number, dimensions, and weights for the engine, generator, and major auxiliary equipment.

PART 2. PRODUCTS

2.1 MANUFACTURERS

A. The following manufacturers meeting these specifications are acceptable:

1. Cummins
2. Detroit
3. CATERPILLAR
4. GENERAC

2.2 SUBSTITUTIONS

A. Proposed deviations from the specifications shall be treated as follows:

1. Request for substitutions shall be made a minimum of ten (10) days prior to bid date. Manufacturers catalog data shall accompany each request and authorized acceptance shall be by addenda only.

2. Under no circumstances will assemblers of units be acceptable. To qualify as a manufacturer, the engine or alternator must be the item manufactured and the completed engine generator set supplied by that manufacturer's authorized dealer only.

3. The Contractor shall submit copies of pertinent drawings and schematic diagrams for approval and shall include the following:

a. Engine generator set including plans and elevations or riser views clearly indicating entrance points for each of the interconnections required.

b. Engine generator/exciter control cubicle.

c. Fuel consumption rate curves at various loads, ventilation and combustion CFM requirements.

d. Exhaust mufflers and vibration isolators.

e. Battery Charger, battery, and battery racks.

f. Automatic load transfer switch.

g. Actual electrical diagrams including schematic diagrams and interconnection wiring diagrams for all equipment to be provided.

h. Legends for all devices on all diagrams.

i. Sequence of operation explanations for all portions of all schematic wiring diagrams.

4. The specified standby KW shall be for continuous electrical service during interruption of the normal utility source and shall be certified to this effect by the manufacturer for the actual unit supplied.

5. These ratings must be substantiated by manufacturer's standard published curves. Special ratings or maximum ratings are not acceptable.

2.3 MATERIALS

A. Engine: The engine shall be 1800 RPM, water-cooled in line or Vee type four-stroke cycle compression ignition diesel. Engines requiring premium fuels will not be considered. The engine shall be equipped with fuel, lube oil, and intake air filters, lube oil cooler, fuel transfer pump, fuel priming pump, engine driven water pump, and unit mounted instruments, water temperature gauge, lubrication oil pressure gauge, and battery charging ammeter.

1. Governor - A gear driven hydraulic governor shall maintain frequency regulation not to exceed 3% (1.8 hertz) from no load to full rated load.

2. Mounting - the units shall be mounted on a structural steel sub-base and shall be provided with suitable spring-type isolators.

3. Safety Devices - Safety shut-off for high water temperature, low oil pressure, over-speed, and engine over-crank shall be provided.

4. Guards - Guards shall be provided over all exposed moving parts as required by OSHA.

B. Generator:

1. The generator shall be rated for continuous stand-by service at 200 KW at 0.8 power factor, 480/277 volts, three phase, four wire, 60 hertz, 1800 RPM.

2. The generator shall be a three phase, 60 hertz, single bearing, rotating field, synchronous type built to NEMA standards. A voltage regulator shall be provided to match the characteristics of the generator and engine. Voltage regulation shall be + - 2% from no load to full rated load. Readily accessible voltage drop, voltage level and voltage gain controls shall be provided. Voltage level adjustments shall be a minimum of + - 5%. Generator and exciter shall be inherently capable of parallel operation with other power sources of equivalent electrical characteristics, and stator shall include a twelve lead, re-connectable buss bar system for easy load connection.

C. Cooling System:

1. Radiator - A radiator with blower type fan shall be sized to maintain safe operation 110 degrees F ambient temperature. Air flow restriction from the radiator shall not exceed 0.5" HO.

2. The engine cooling system shall be pre-treated by the system supplier for the inhibition of internal corrosion, and freezing.

D. Fuel System:

1. Genset shall utilize double wall diesel fuel tank mounted to the skids of the engine generator. The genset shall be provided with all necessary regulators, filters and accessories to provide specific performance. (Provide tank sized for 48 hours of continuous service at full load.)

E. Weather Proof Housing and Exhaust Muffler;

1. Housing shall consist of a weather proof enclosure to completely enclose the engine generator and accessories. Housing shall protect the engine generator from the environment, yet be conductive to easy maintenance. Housing shall have removable swing out doors on each side and lockable rear door for access to meters and controls. Side doors shall have a means to pad lock. Construction of housing shall be of a minimum 14 gauge sheet steel and painted manufacturers standard color.

2. Exhaust muffler shall be mounted on top of housing. The exhaust muffler shall be a critical grade muffler. Muffler shall be factory installed so that its weight is not supported by the engine. A flexible exhaust fitting shall be supplied and installed between the muffler and exhaust manifold. All accessories shall be factory installed. This includes flanges, muffler, tail pipe and rain cap.

3. Exhaust system shall mate with an exhaust riser to deliver the exhaust to remote location. Generator shall be capable of operating with the back pressure for a 100 foot vertical exhaust stack. Flexible pipe section shall be provided to connect genset exhaust to exhaust stack.

F. Automatic Starting System:

1. Starting Motor - A DC electric starting system with positive engagement shall be furnished. The motor voltage shall be as recommended by the engine manufacturer.

2. Automatic Control - fully automatic generator set start-stop controls in the generator control panel shall be provided. Controls shall provide shutdown for low oil pressure, high water temperature, over speed, over crank. Controls shall include a 30 second single cranking cycle limit with lockout.

3. Jacket Water Heater - A unit mounted thermal circulation type water heater incorporating a thermostatic switch shall be furnished to maintain engine jacket water to 70 degrees F. the heater shall be 120 volt, single phase, 60 hertz. Provide pressure switch actuated by oil pressure to shut down heater when oil pressure reaches running pressure.

4. Battery Charging Alternator - A belt driven battery charging alternator rated 24 volts, 35 amp DC shall be provided with transistorized voltage regulator.

5. Batteries - A lead - acid storage battery set of the heavy duty diesel starting type shall be provided. Battery voltage shall be compatible with the starting system. The battery set shall be rated no less than 220 amp-hours. Necessary cables and clamps shall be provided.

6. Battery Racks - Battery racks shall be provided for each battery and shall conform to NEC 480.8 (A) (1). They shall be constructed of metal and so treated as to be resistant to deteriorating action by battery electrolyte. Further, construction shall be such that non-conducting insulation material directly supports the cells.

7. Battery Charger - A current limiting battery charger shall be furnished to automatically recharge batteries. Chargers shall float at 2.17 volts per cell. It shall include overload protection, silicon diode full wave rectifiers, voltage surge suppressor, DC ammeter, DC volt- meter, and fused AC input. AC input voltage shall be 120 volts, single phase. Amperage output shall be no less than 6 amperes.

G. Generator Control Panel:

1. Type - A generator mounted NEMA 3R type vibration isolated 14 gauge steel control panel shall be provided. Panel shall contain, but not be limited to, the following equipment:

a. Frequency meter, 3 1/2 inch, dial type.
b. Voltmeter, 3 1/2 inch, 2% accuracy.
c. Ammeter, 3 1/2 inch, 2 % accuracy.
d. Ammeter - Voltmeter phase selector switch.
e. Automatic starting controls as specified.
f. Voltage level adjustment rheostat.
g. Dry contacts for remote alarm wired to terminal strips.
h. Individual fault indicator lights for low oil pressure, high water temperature, over speed, and over crank.
i. Three position function switch marked, RUN-STOP and REMOTE.
j. Running time meter, oil pressure, battery charging ammeter and water temperature gauges.

H. Main Line Circuit Breakers:

1. Type A main line, molded case circuit breakers mounted upon and sized to the output of the generator shall be installed as a load circuit interrupting and protection device. It shall operate both manually for normal switching functions and automatically during overload and short circuit conditions.

2. The trip unit for each pole shall have elements providing inverse time delay during overload conditions and instantaneous magnetic tripping for short circuit protection. The circuit breaker shall meet standards established by Underwriters Laboratories National Electric Manufacturer's Association, and National Electrical Code.

I. Automatic Load Transfer Switch(es):

1. The amperage rating of each automatic load transfer switch shall be as shown on riser diagram.

2. Each automatic transfer switch shall be mechanically held on both the emergency and the normal side, and rated for continuous duty in an unventilated enclosure. The switches shall be double throw with the main contacts rigidly and mechanically interlocked to insure only two possible positions: Normal or Emergency. A manual operator must be provided to enable manual operation.

3. Rating and Performance: The automatic load transfer control shall be rated for continuous duty when enclosed in a non-ventilated NEMA 3R enclosure. It shall be rated for all classes of load including inductive and non-inductive at 600 volts and tungsten lamp load at 250 volts. The transfer switch portion of the control shall be designed, built, and tested to close on an inrush current up to and including twenty (20) times the continuous rating of the switch without welding or excessive burning of the contacts. The transfer switch shall be capable of switching load up to and including fifteen (15) times the continuous rating of the switch and capable of enduring six thousand (6000) cycles of operation, at rated current, at a rate of six (6) cycles per minute, without failure. One cycle shall consist of one complete opening and closure of both sets of contacts Onan inrush current of ten (10) times the continuous rating of the switch.

4. Each transfer switch shall be listed under U.L. 1008, and approved by Canadian Standards Association. Switches utilizing reversing contactor mechanisms as a means to transfer load are disallowed and will not be considered.

5. Accessories to transfer switches; All automatic load transfer switches shall include the following accessories:

a. Engine starting contacts to provide for generator starting from each unit independent of the other.

b. Full phase protection. Three phase relays shall be field adjustable, close differential type with 92-95% pickup and 82-85% drop out. Relays are to be connected across live lines.

c. Test switch, to simulate a power outage.

d. Adjustable time delay on engine starting to over-ride momentary outages and nuisance voltage dips.

e. Adjustable time delay on transfer of load to emergency source. Adjustable time delay to open transfer switch contact to allow motor loads to decay.

f. Adjustable time delay on retransfer to load to normal with 5 minute cool-down timer wherein the generator set runs unloaded after transfer to line.

g. Plant exerciser to start and run the generator set with or without load each 168 hours for a 30 minute interval. Selector switch will be provided for with load or without load testing.

h. One auxiliary contact closed on emergency and one auxiliary contact open on emergency.

i. Pilot lights to indicate the normal and emergency position of the transfer switch.

j. Isolated (ungrounded neutral bar).

k. Disconnect plug.

J. Annunciator Panel: A flush recessed panel shall be provided for remote mounting in the Administrative Area or as shown on the drawings to give audible and visual warning of fault or alarm conditions in the generator set. Wiring and conduit shall be as required by the system manufacturer. The panel shall conform with the requirements of the National Electrical Code, Section 700-12, and the National Fire Protection Associates publication, NFPA No. 110-3-5.5.1, Level One. Leak detection status shall be indicated on the annunciator.

K. Transient voltage surge protection shall be provided protecting all low voltage circuits serving the transfer switch and the annunciator. EDCO or equal.

2.4 MANUFACTURING

A. The engine, including engine block, oil plan, and cylinder heads, generator and all major items of auxiliary equipment shall be manufactured in the U. S. by manufacturers currently engaged in the production of such equipment.

B. The unit shall be shipped to the job site by the manufacturer`s authorized dealer having a parts and service facility within a 75 mile radius of the job site. In addition, and in order not to penalize the owner for unnecessary or prolonged periods of time for service or repairs to the emergency system, the bidding generator set supplier must have no less than eighty percent (80%) of all engine replacement parts in his stock at all times. Certified proof of this requirement shall be available from the dealer and a personal inspection of the dealer's facilities shall be made by the designing engineer or his appointed representative to substantiate claims made by the generator set supplier.

PART 3. EXECUTION

3.1 TESTING

A. Prior to acceptance of the installation, equipment shall be tested to show it is free of any defects and will start automatically and be subjected to full load test through the use of existing loads and, dry type load banks supplied for this purpose at the job site by the generator set supplier.

B. Load bank testing shall be done in the presence of the Owner's engineer or his appointed representative only after the unit is permanently installed in accordance with the plans and specifications. If testing is completed without benefit of Engineers presence, testing shall be done again in his presence. Testing shall be for a period of four (4) hours under full load.

3.2 CERTIFICATE TEST REPORTS, MANUALS AND INSTRUCTIONS

A. Prior to the final inspection, deliver 4 copies of the following items to the Engineer:

1. A certificate by the manufacturer of the engine-generator set that the auxiliary electrical power system has been properly installed, adjusted and tested.

2. Certified copies of the entire factory and construction site test data sheets and reports for the engine-generator set and major auxiliaries.

3. Complete operating and maintenance manuals for the engine-generator set and auxiliaries including wiring diagrams, technical data sheets and information for ordering replaceable parts:

a. Include complete interconnection diagrams which indicate all components of the system.

b. Include complete diagrams of the internal wiring for each of the items of equipment.

c. The diagrams shall have their terminals identified to facilitate installation, operation and maintenance.

B. Laminate or mount under plexiglas a set of operating instructions for the system and install it under a neat frame, adjacent to transfer switch.

C. Furnish the services of a competent, factory-trained engineer or technician for instructing operating and maintenance personnel on the proper operation and maintenance of the system at the time of testing.

3.3 SYSTEM SERVICE CONTRACT

A. The supplier of the standby power system shall provide a copy of and make available to the owner his standard service contract which, at the owner's option, may be accepted or refused. This contract will accompany any documents, drawings, catalog cuts, specification sheets, wiring or outline drawings, etc. Submitted for approval to the designing engineer. The contract shall be for the complete power system.

3.4 WARRANTY

A. The complete standby electrical system furnished under this Section shall be guaranteed against defective parts and workmanship under terms of the manufacturer's and dealer's standard warranty. But, in no event shall it be for a period of less than five (5) years or 3000 hours from date of final testing and acceptance of the system and shall include labor, parts and travel time for necessary repairs at the job site. Warranty information shall be submitted along with construction site test data sheets. This information shall list starting and ending dates and who is to be contacted for warranty service.

END OF SECTION 162150

ALPHA BLDG SET 08-27-2024

PHASE I

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Project No.: 2023012
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Drawn By: TAW
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File Name:

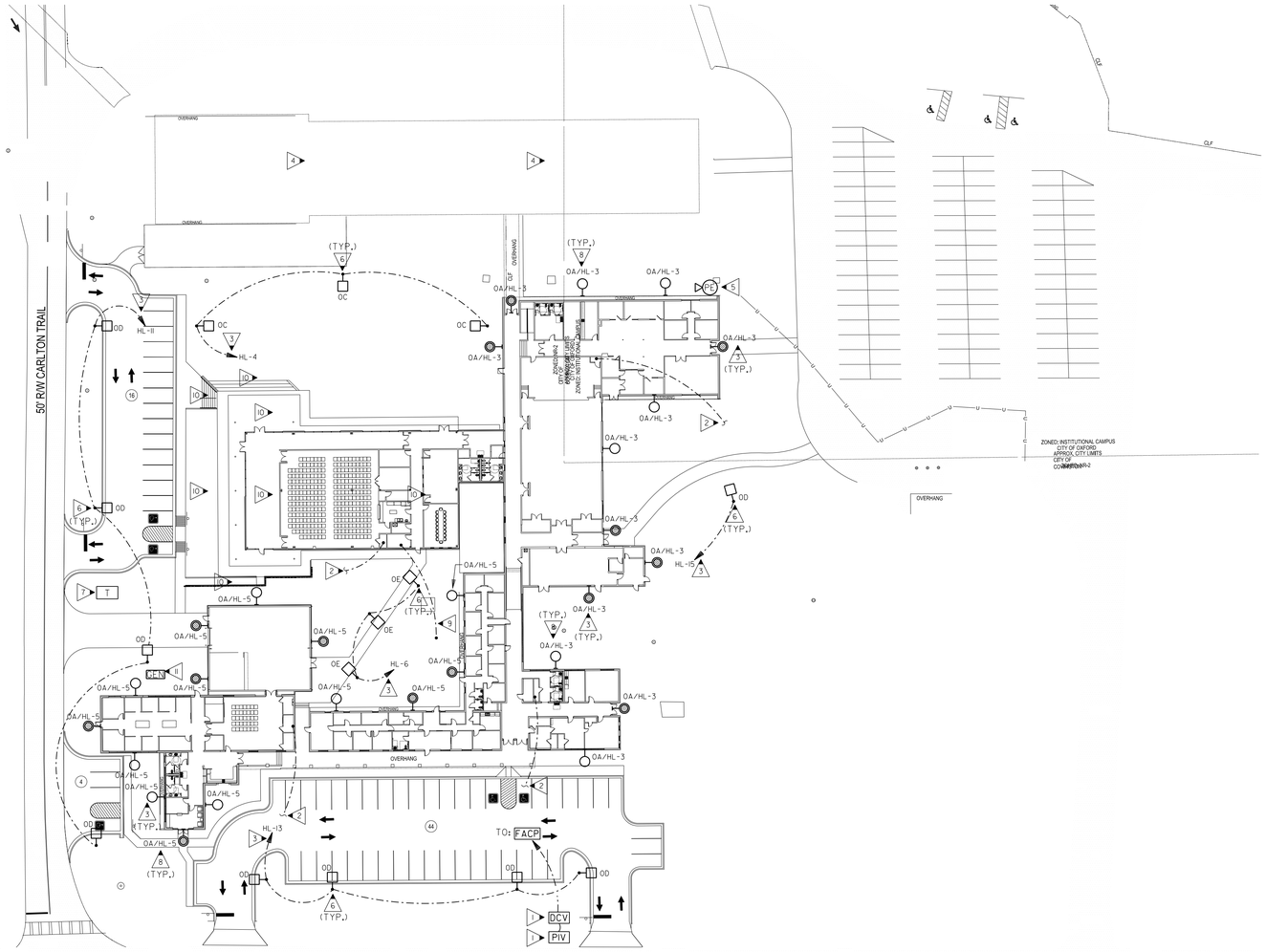
Sheet Title: *ELECTRICAL SPECIFICATIONS*

Sheet No.: E-0.4

GENERAL NOTES - LOCATION OF UTILITY COMPANY PAD MOUNTED TRANSFORMER:

1. TRANSFORMER PAD LOCATIONS SHALL BE A MINIMUM OF 10 FT.-0 IN. FROM ANY BUILDING OVERHANGS, CANOPIES, EXTERIOR WALLS, BALCONY, EXTERIOR STAIRS AND OR WALKWAYS CONNECTED TO THE BUILDING.
2. TRANSFORMER PAD EDGE SHALL BE NO LESS THAN 14 FT.-0 IN. FROM ANY DOOR WAY.
3. TRANSFORMER PAD EDGE SHALL BE NO LESS THAN 10 FT.-0 IN. FROM ANY WINDOWS OR OTHER OPENINGS.
4. IF THE BUILDING HAS ON OVERHANG THE 10 FT.-0 IN. CLEARANCE SHALL BE MEASURED FROM A POINT BELOW THE EDGE OF THE OVERHANG ONLY IF THE BUILDING IS 3 STORIES OR LESS. IF THE BUILDING IS 4 STORIES OR MORE 10 FT.-0 IN. SHALL BE MEASURED FROM THE OUTSIDE BUILDING WALL.
5. FIRE ESCAPES, OUTSIDE STAIRS, AND COVERED WALKWAYS ATTACHED TO OR BETWEEN BUILDINGS, SHALL BE CONSIDERED PART OF THE BUILDING.

NOTE: THIS INFORMATION HAS BEEN OBTAINED FROM THE NFPA SECTION 450-27 AND THE OFFICE OF INSURANCE AND SAFETY FIRE COMMISSIONER CHAPTER 120-3-3.



1 E-1.1 SITE PLAN - ELECTRICAL
SCALE: 1"=40'-0"
0 20' 40'

E1.1

KEYED NOTES: (THIS SHEET ONLY)

1. PROVIDE MONITORING OF DOUBLE CHECK VALVE AND POST INDICATOR VALVE FOR FIRE SPRINKLER SYSTEM. FIELD COORDINATE EXACT LOCATION.
2. ROUTE (4) 3 IN. CONDUITS FROM CORNER OF MDF ROOM SHOWN TO D.MARK FOR CATV, DATA/TEL AND ONE SPARE. COORDINATE EXACT STUB-OUT LOCATION POINTS WITH SERVING UTILITY COMPANIES.
3. ROUTE VIA 12 POLE EXTERIOR LIGHTING CONTACTOR/TIMECLOCK LOCATED ADJACENT PANELS. PHOTO CELL SHALL CONTROL DUSK TILL DAWN OPERATION. TIMECLOCK SHALL INTERRUPT CIRCUIT DURING MIDNIGHT HOURS. SEE KEYED NOTE 4 ON SHEET E-3.1. USE #8'S ENTIRE CIRCUIT IN 1 IN. CONDUIT UNLESS NOTED OTHERWISE. PROVIDE MANUAL OVERRIDE SWITCH. COORDINATE FINAL LOCATION WITH OWNER.
4. NO WORK IN THIS AREA EXCEPT REVISED ELECTRICAL POWER SERVICE AS SHOWN ON RISER DIAGRAM.
5. LOCATE P.E. CELL FACING NORTH, CLEAR OF MAN MADE LIGHT SOURCES. J-BOX TO HOUSE P.E. CELL SHALL BE RECESSED MOUNTED WITH STAINLESS STEEL COVER.
6. SEE TYPICAL POLE BASE MOUNTING DETAIL, 2/E-1.1.
7. PROPOSED LOCATION OF NEW PAD MOUNT TRANSFORMER. COORDINATE EXACT LOCATION WITH POWER COMPANY.
8. COORDINATE EXACT MOUNTING HEIGHT PRIOR TO ELECTRICAL ROUGH-IN.
9. PROVIDE 2 SETS: 4 IN. C. FROM NEW MAIN ELECTRICAL ROOM TO THE PHASE 2 COMMUNITY BUILDING'S ELECTRICAL ROOM. COORDINATE EXACT STUB UP LOCATIONS PRIOR TO ROUGH-IN. TEMPORARILY CAP ROUGHED IN CONDUIT.
10. COMMUNITY BUILDING TO BE PHASE 2 OF CONSTRUCTION. PROVISIONS ARE TO BE PROVIDED FOR PHASE 2 CONSTRUCTION AND TEMPORARILY CAPPED. COMMUNITY BUILDING ONLY SHOWN FOR REFERENCE.
11. PROPOSED LOCATION OF NEW GENERATOR FOR ELECTIONS BUILDING. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.

GENERAL NOTES: (THIS SHEET ONLY)

A. SURVEY AND SITE INFORMATION PROVIDED BY OTHERS. VERIFY ALL CONDITIONS ON SITE AND WITH OFFICAL SURVEYS AND OTHER TRADES.

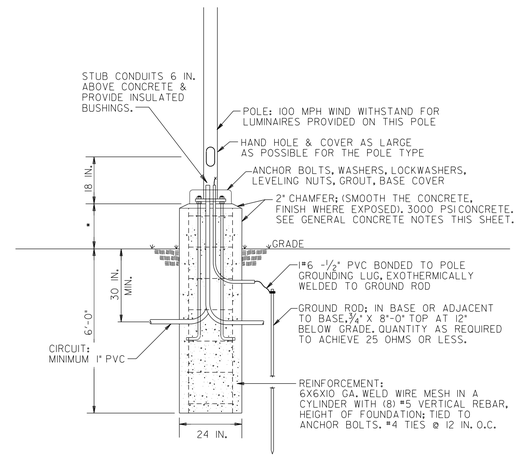
B. CALL UNDERGROUND UTILITY CENTER AND VERIFY ALL UNDERGROUND UTILITIES.

C. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC.

D. CONTRACTOR SHALL STAKE-OFF ALL EXISTING UTILITIES PRIOR TO ROUGH-IN. ALL NEW INSTALLATION SHALL BE COORDINATED WITH EXISTING UTILITY LOCATIONS.

E. PROVIDE HAND-HOLES AS REQUIRED BY NEC FOR UNDERGROUND FEEDERS SHOWN.

F. PROVIDE 120V POWER TO ALL ELECTRONIC WATER METERS. SEE PLUMBING AND CIVIL DRAWING FOR QUANTITIES AND LOCATIONS.



• EXPOSED FOUNDATION:
WITHIN PARKING LOT = 36 IN. POLE BASE HEIGHT
GRASSED AREAS = 12 IN. POLE BASE HEIGHT

2 E-1.1 POLE BASE DETAIL (TYPICAL)
NOT TO SCALE

LIGHT FIXTURE DESIGNATION DESCRIPTION
EXAMPLE: B/HAI-1/b

PANEL DESIGNATION:
CIRCUIT NUMBER
FIXTURE TYPE: TYPE "A" IF NO CAPITAL LETTER SHOWN
SWITCH LEG DESIGNATION WHEN MULTIPLE SWITCHES ARE IN SAME SPACE/AREA
B/ HAI-1/b

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)

PHASE I

ALPHA BLDG SET 08-27-2024

Seal: GEORGIA REGISTERED PROFESSIONAL ENGINEER JEFFREY H. McGEE

ELECTRICAL DESIGN CONSULTANTS, INC.
175 NEW ST. STE.1
MACON, GA 31201
EDC• M24004

Client: sunbelt BUILDERS
10641 HWY 36, COVINGTON, GA 30014, TEL: 770 786 5031

Project: R. L. COUSINS CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA.

Issue Date:	Initial:	Drwg. Revision Description:
06-27-24	TAW	FOR CONSTRUCTION

Project No.: 2023012
Drwg. Date: 06/27/24
Drwg. Revision:
Drawn By: TAW
Checked By: JHM
File Name:

Sheet Title: SITE PLAN - ELECTRICAL

Sheet No.: E-1.1

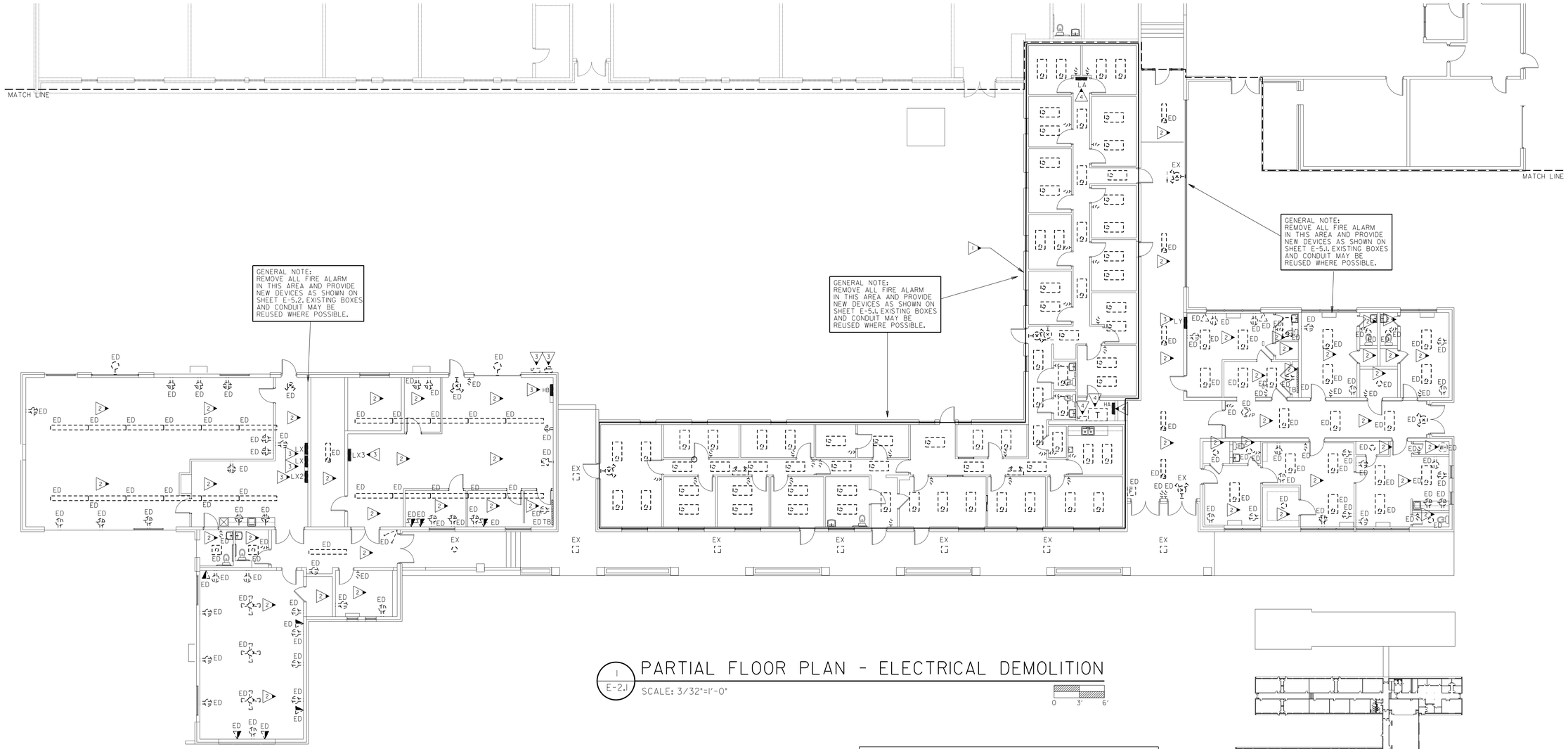
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GENERAL DEMOLITION NOTES: (THIS SHEET ONLY)

A. SEE SHEET E-2.4 FOR GENERAL DEMOLITION NOTES.

KEYED NOTES: (THIS SHEET ONLY)

1. SEE SHEET E-3.1 FOR ALTERNATE TO REPLACE LIGHT FIXTURES. OTHERWISE, ALL ELECTRICAL DEVICES IN AREA TO REMAIN UNLESS NOTED OTHERWISE.
2. ALL EXISTING ELECTRICAL DEVICES IN AREA TO BE DEMOLISHED UNLESS NOTED OTHERWISE. RACEWAYS AND BOXES MAY BE REUSED WHERE POSSIBLE.
3. EXISTING ELECTRICAL GEAR TO BE DEMOLISHED.
4. EXISTING ELECTRICAL GEAR TO REMAIN THROUGHOUT RENOVATION.



1 / E-2.1 PARTIAL FLOOR PLAN - ELECTRICAL DEMOLITION

SCALE: 3/32"=1'-0"

0 3' 6'

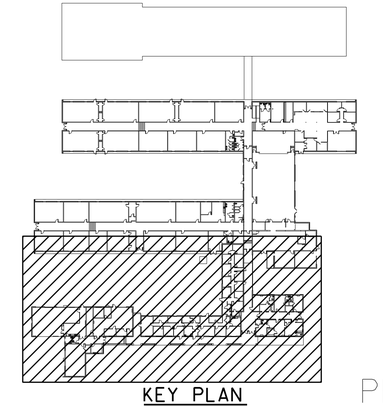
DEMOLITION LEGEND	
ED	EXISTING DEVICE TO BE DEMOLISHED.
ER	EXISTING DEVICE TO BE RELOCATED. PROVIDE NEW DEVICE AND FACEPLATE. DEMOLISH EXISTING BRANCH CIRCUITRY AND REWORK AS SHOWN ON NEW WORK.
EX	EXISTING DEVICE TO REMAIN. PROVIDE NEW DEVICE AND FACEPLATE. PROVIDE NEW CABLING BACK TO SERVING CABINET ON LOW VOLTAGE DEVICES.

COORDINATION NOTE:

CONTRACTOR SHALL CAREFULLY REVIEW HVAC AND ELECTRICAL DRAWINGS PRIOR TO BID. ALL HVAC EQUIPMENT TO REMAIN, EQUIPMENT BEING REPLACED, AND NEW EQUIPMENT SHALL BE PROVIDED POWER. ELECTRICAL DRAWINGS SHOW THE MEANS OF PROVIDING POWER. HOWEVER, ALL EQUIPMENT MUST BE POWERED WHETHER SHOWN OR NOT.

WHERE ELECTRICAL DRAWINGS SHOW PROVIDING BREAKERS IN EXISTING PANELS TO SERVE EQUIPMENT, CONTRACTOR SHALL VERIFY AVAILABLE SPACE. IF NOT AVAILABLE, CONTRACTOR SHALL PROVIDE BREAKER IN CLOSEST PANEL WITH AVAILABLE CAPACITY AND SPACE.

ALL EQUIPMENT MUST BE PROVIDED WITH A DISCONNECTING MEANS PER THE 2020 NEC (WHETHER OR NOT SHOWN ON ELECTRICAL DRAWINGS OR DIVISION 23)



KEY PLAN

ALPHA BLDG SET 08-27-2024

PHASE 1

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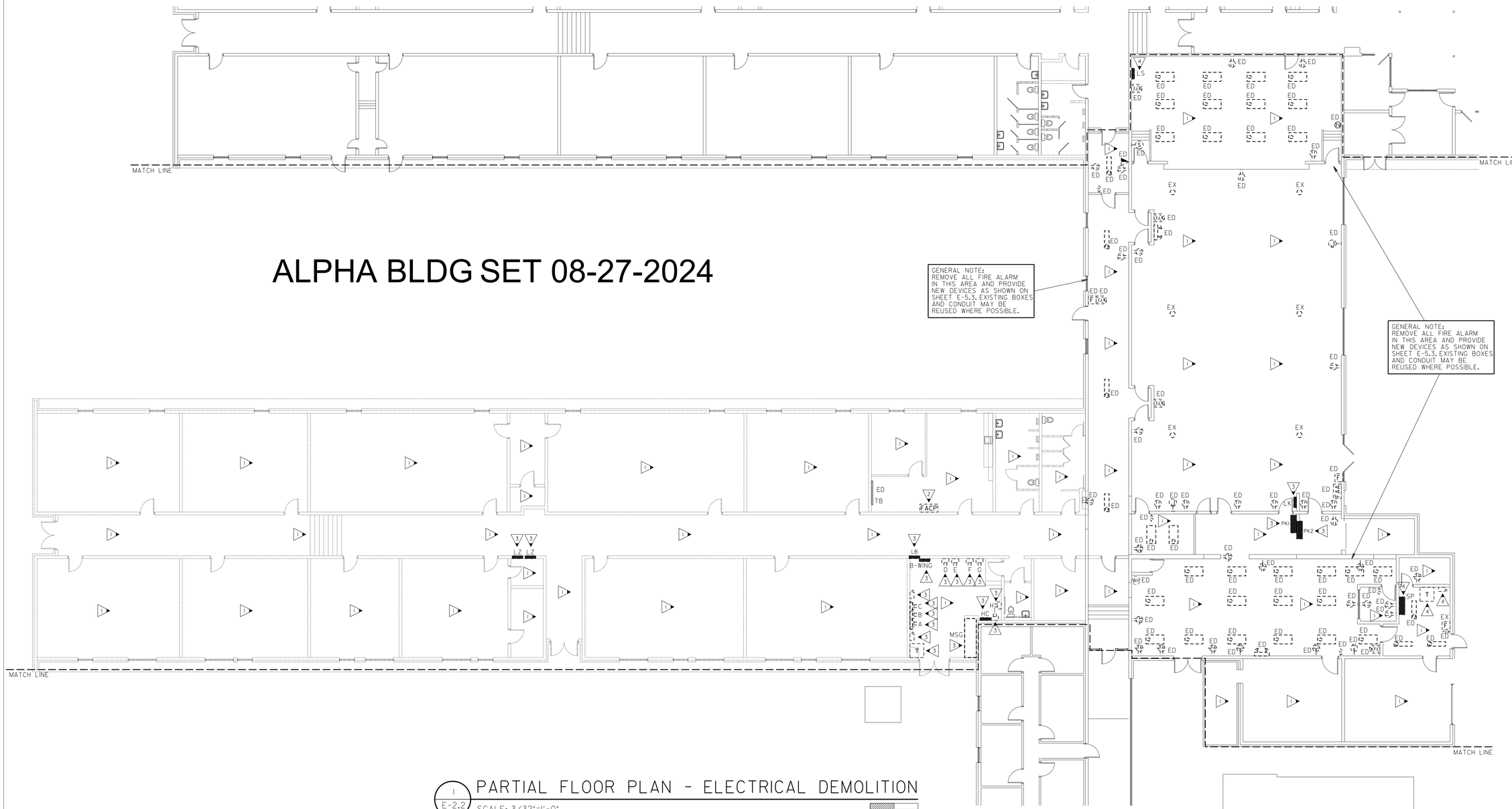
Project No.: 2023012
Drwg. Date: 06/27/24
Drwg. Revision:
Drawn By: TAW
Checked By: JHM
File Name:

Sheet Title: *PARTIAL FLOOR PLAN - ELECTRICAL DEMOLITION*

Sheet No.: E-2.1

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ALPHA BLDG SET 08-27-2024



PARTIAL FLOOR PLAN - ELECTRICAL DEMOLITION

1 / E-2.2

SCALE: 3/32"=1'-0"

0 3' 6'

GENERAL DEMOLITION NOTES: (THIS SHEET ONLY)

A. SEE SHEET E-2.4 FOR GENERAL DEMOLITION NOTES.

KEYED NOTES: (THIS SHEET ONLY)

1. ALL EXISTING ELECTRICAL DEVICES IN AREA TO BE DEMOLISHED UNLESS NOTED OTHERWISE. RACEWAYS AND BOXES MAY BE REUSED WHERE POSSIBLE.
2. EXISTING FIRE ALARM CONTROL PANEL SCHEDULED FOR DEMOLITION. SEE NEW WORK PLANS FOR NEW CONTROL PANEL.
3. EXISTING ELECTRICAL GEAR TO BE DEMOLISHED.
4. EXISTING ELECTRICAL GEAR TO REMAIN THROUGHOUT RENOVATION.

DEMOLITION LEGEND

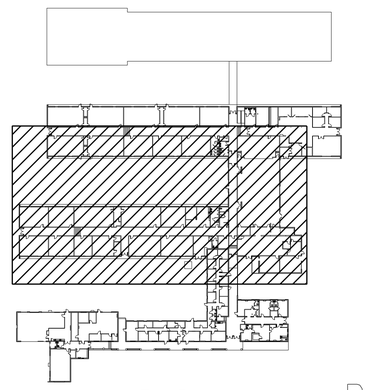
ED	EXISTING DEVICE TO BE DEMOLISHED.
ER	EXISTING DEVICE TO BE RELOCATED, PROVIDE NEW DEVICE AND FACEPLATE. DEMOLISH EXISTING BRANCH CIRCUITRY AND REWORK AS SHOWN ON NEW WORK.
EX	EXISTING DEVICE TO REMAIN, PROVIDE NEW DEVICE AND FACEPLATE. PROVIDE NEW CABLING BACK TO SERVING CABINET ON LOW VOLTAGE DEVICES.

COORDINATION NOTE:

CONTRACTOR SHALL CAREFULLY REVIEW HVAC AND ELECTRICAL DRAWINGS PRIOR TO BID. ALL HVAC EQUIPMENT TO REMAIN, EQUIPMENT BEING REPLACED, AND NEW EQUIPMENT SHALL BE PROVIDED POWER. ELECTRICAL DRAWINGS SHOW THE MEANS OF PROVIDING POWER. HOWEVER, ALL EQUIPMENT MUST BE POWERED WHETHER SHOWN OR NOT.

WHERE ELECTRICAL DRAWINGS SHOW PROVIDING BREAKERS IN EXISTING PANELS TO SERVE EQUIPMENT, CONTRACTOR SHALL VERIFY AVAILABLE SPACE. IF NOT AVAILABLE, CONTRACTOR SHALL PROVIDE BREAKER IN CLOSEST PANEL WITH AVAILABLE CAPACITY AND SPACE.

ALL EQUIPMENT MUST BE PROVIDED WITH A DISCONNECTING MEANS PER THE 2020 NEC (WHETHER OR NOT SHOWN ON ELECTRICAL DRAWINGS OR DIVISION 23)



KEY PLAN

PHASE I

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Project No.: 2023012
Drwg. Date: 06/27/24
Drwg. Revision:
Drawn By: TAW
Checked By: JHM
File Name:

Sheet Title: PARTIAL FLOOR PLAN - ELECTRICAL DEMOLITION

Sheet No.: E-2.2

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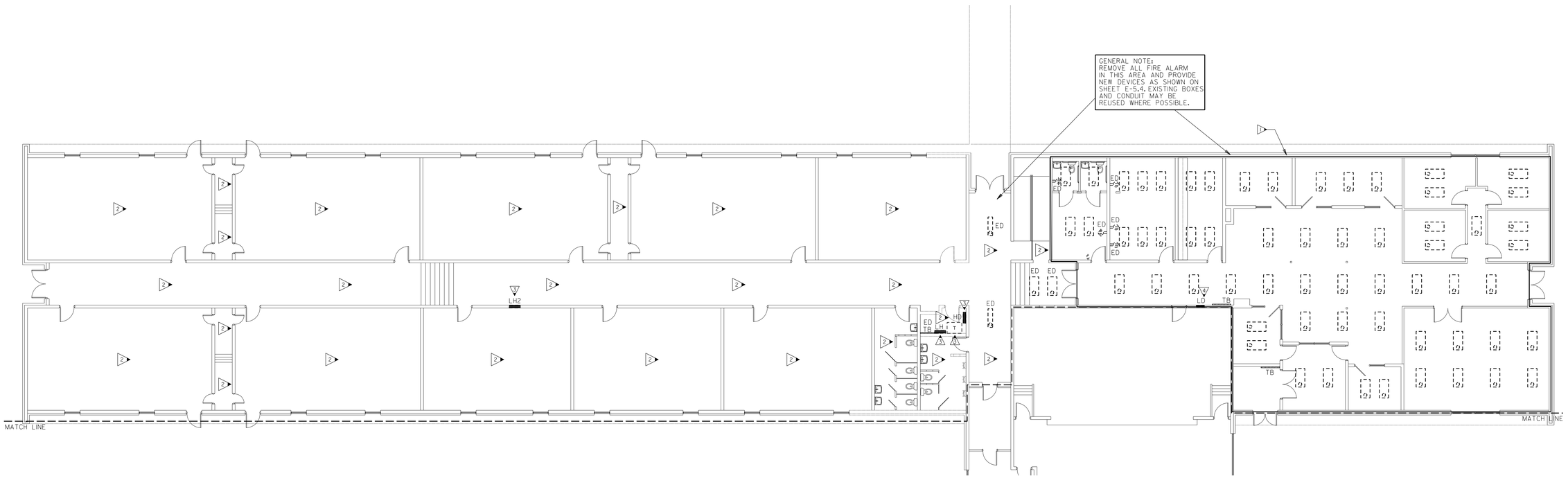
GENERAL DEMOLITION NOTES: (THIS SHEET ONLY)

A. SEE SHEET E-2.4 FOR GENERAL DEMOLITION NOTES.

KEYED NOTES: (THIS SHEET ONLY)

1. SEE SHEET E-3.4 FOR ALTERNATE TO REPLACE LIGHT FIXTURES. OTHERWISE, ALL ELECTRICAL DEVICES IN AREA TO REMAIN UNLESS NOTED OTHERWISE.
2. ALL EXISTING ELECTRICAL DEVICES IN AREA TO BE DEMOLISHED UNLESS NOTED OTHERWISE. RACEWAYS AND BOXES MAY BE REUSED WHERE POSSIBLE.
3. EXISTING ELECTRICAL GEAR TO BE DEMOLISHED.
4. EXISTING ELECTRICAL GEAR TO REMAIN THROUGHOUT RENOVATION.

ALPHA BLDG SET 08-27-2024



PARTIAL FLOOR PLAN - ELECTRICAL DEMOLITION

1 / E-2.3

SCALE: 3/32"=1'-0"

0 3' 6'

DEMOLITION LEGEND

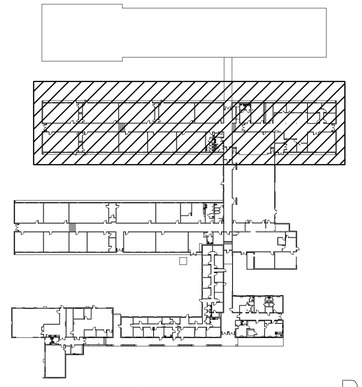
ED	EXISTING DEVICE TO BE DEMOLISHED.
ER	EXISTING DEVICE TO BE RELOCATED, PROVIDE NEW DEVICE AND FACEPLATE. DEMOLISH EXISTING BRANCH CIRCUITRY AND REWORK AS SHOWN ON NEW WORK.
EX	EXISTING DEVICE TO REMAIN, PROVIDE NEW DEVICE AND FACEPLATE. PROVIDE NEW CABLING BACK TO SERVING CABINET ON LOW VOLTAGE DEVICES.

COORDINATION NOTE:

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ALL EQUIPMENT MUST BE PROVIDED WITH A DISCONNECTING MEANS PER THE 2020 NEC (WHETHER OR NOT SHOWN ON ELECTRICAL DRAWINGS OR DIVISION 23)



KEY PLAN

PHASE I

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Client: sunbelt BUILDERS™
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Project:
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NEWTON CO. BOC RFP #24-04
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Issue Date:	Initial:	Drwg. Revision Description:
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Project No.: 2023012
Drwg. Date: 06/27/24
Drwg. Revision:
Drawn By: TAW
Checked By: JHM
File Name:

Sheet Title: *PARTIAL FLOOR PLAN - ELECTRICAL DEMOLITION*

Sheet No.: E-2.3

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GENERAL DEMOLITION NOTES: (THIS SHEET ONLY)

A. REMOVE EXISTING LIGHTS (ONLY IN SPECIFIC AREAS NOTED) AND DISPOSE OF AS DIRECTED BY OWNER.

B. PROVIDE BLANK COVERS ON ALL JUNCTION BOXES AND OUTLET BOXES NOT INTENDED FOR REUSE.

C. EXISTING CEILINGS, WALLS, AND FLOORS DISTURBED OR DISFIGURED BY THE ELECTRICAL RENOVATION SHALL BE PATCHED, MENDED OR REPLACED BY TRADES ACTIVELY PARTICIPATING IN THIS TYPE OF WORK. RESPONSIBILITY FOR REPAIRS SHALL BE COORDINATED BETWEEN GENERAL CONTRACTOR AND ELECTRICAL SUBCONTRACTOR.

D. ALL EXISTING EQUIPMENT REMOVED FROM SERVICE AND NOT INTENDED FOR REUSE SHALL REMAIN THE PROPERTY OF OWNER AND SHALL BE DISPOSED OF AS DIRECTED BY THE OWNER.

E. MAINTAIN SERVICE TO ALL EXISTING CIRCUITS THAT ARE NOT SCHEDULED FOR REMOVAL.

F. ALL ACCESSIBLE ITEMS OF ELECTRICAL EQUIPMENT CONDUITS, WIRING, LIGHTS, RECEPTACLES, ETC. AFFECTED BY THE RENOVATION WORK AND NOT REQUIRED IN THE COMPLETED WORK SHALL BE CAREFULLY REMOVED. DAMAGED WALLS, FLOORS, CEILINGS, ETC. SHALL BE PATCHED AND FINISHED TO MATCH THE EXISTING ADJACENT SURFACES. REMOVED ITEMS SHALL BE PROPERLY DISPOSED OF OFF SITE AND NOT REUSED EXCEPT AS NOTED. TURN OVER ALL EXISTING EQUIPMENT DESIRED BY BUILDING OWNER.

G. RECONNECT CIRCUITS AS REQUIRED TO MAINTAIN CONTINUITY TO EXISTING DEVICES AND EQUIPMENT TO REMAIN.

H. WHERE ONLY A PORTION OF A CIRCUIT'S LOAD IS SCHEDULED TO BE REMOVED. REMOVE ONLY THAT PORTION ASSOCIATED WITH THE DEMOLISHED DEVICE TO A POINT WHERE THE REMAINING LOAD IS ACTIVE AND MAINTAIN IN A GOOD OPERATING CONDITION.

J. EXISTING EQUIPMENT SHOWN ON ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS THAT WILL REMAIN SHALL HAVE SERVICE MAINTAINED OR RECONNECTED TO EXISTING OR NEW PANELBOARD AS NECESSARY.

K. TO MAINTAIN SERVICE OR TO EXTEND OR RECONNECT CIRCUITS WHERE CONDUIT CAN NOT BE CONCEALED, SURFACE METAL RACEWAY (WIREMOLD V700 SERIES PAINTED TO MATCH WALLS) MAY BE USED. VERIFY WITH ARCHITECT BEFORE INSTALLING.

L. ELECTRICAL CONTRACTOR SHALL REVIEW ARCHITECTURAL DRAWINGS AND SITE CONDITIONS FOR DOOR SWINGS, CABINETS, COUNTERS AND OTHER BUILT-IN EQUIPMENT. CONDITIONS INDICATED ON ARCHITECTURAL DRAWING SHALL GOVERN.

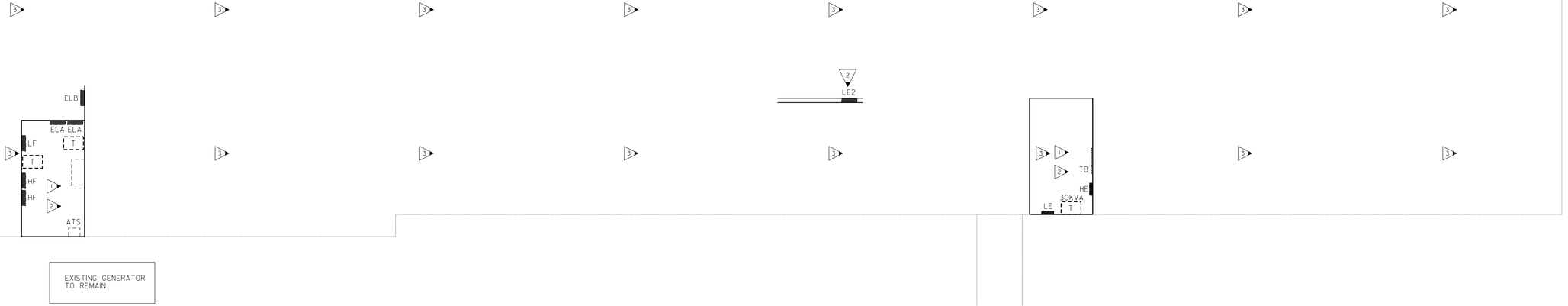
M. COORDINATE ELECTRICAL WITH ARCHITECTURAL DETAILS, FLOOR PLANS, ELEVATIONS, STRUCTURAL, MECHANICAL AND PLUMBING DRAWINGS. PROVIDE FITTINGS, JUNCTION BOXES AND ACCESSORIES TO MEET CONDITIONS. COORDINATE ROUTING OF ALL NEW FEEDERS WITH EXISTING SITE ELEMENTS. ALL FEEDERS SHALL BE CONCEALED EXCEPT IN MECHANICAL/ELECTRICAL SPACES WITH SURFACE MOUNTED PANELS.

N. ENSURE ALL EXISTING TELEPHONE, DATA, TELEVISION, FIRE ALARM, SECURITY AND OTHER LOW VOLTAGE CABLING TO REMAIN IS SECURED TO STRUCTURE AND PROTECTED FROM DAMAGE DURING DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL SYSTEMS IN WORKING ORDER DURING CONSTRUCTION. SOME SYSTEMS ARE SHOWN AS BEING REPLACED, BUT EXISTING SYSTEMS MUST REMAIN ACTIVE UNTIL NEW SYSTEMS ARE OPERATIONAL.

KEYED NOTES: (THIS SHEET ONLY)

1. FIELD VERIFY EXACT LOCATION OF ELECTRICAL ROOMS AND EQUIPMENT.
2. EXISTING ELECTRICAL EQUIPMENT IN SPACE TO REMAIN. EXISTING SERVICE TO BE REPLACED AND EQUIPMENT TO BE REFED. SEE NEW POWER RISER DIAGRAM, 1/E-6.2 FOR NEW SERVICE.
3. NO DEMOLITION WORK IN AREA UNLESS NOTED OTHERWISE.

ALPHA BLDG SET 08-27-2024



1 / E-2.4 PARTIAL FLOOR PLAN - ELECTRICAL DEMOLITION

SCALE: 3/32"=1'-0"

0 3' 6'

DEMOLITION LEGEND

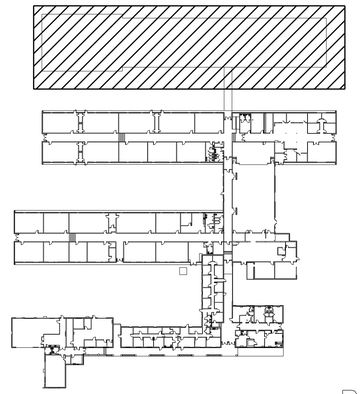
ED	EXISTING DEVICE TO BE DEMOLISHED.
ER	EXISTING DEVICE TO BE RELOCATED. PROVIDE NEW DEVICE AND FACEPLATE. DEMOLISH EXISTING BRANCH CIRCUITRY AND REWORK AS SHOWN ON NEW WORK.
EX	EXISTING DEVICE TO REMAIN. PROVIDE NEW DEVICE AND FACEPLATE. PROVIDE NEW CABLING BACK TO SERVING CABINET ON LOW VOLTAGE DEVICES.

COORDINATION NOTE:

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ALL EQUIPMENT MUST BE PROVIDED WITH A DISCONNECTING MEANS PER THE 2020 NEC (WHETHER OR NOT SHOWN ON ELECTRICAL DRAWINGS OR DIVISION 23)



KEY PLAN

PHASE I

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Issue Date:	Initial:	Drwg. Revision Description:
06-27-24	TAW	FOR CONSTRUCTION

Project No.: 2023012
Drwg. Date: 06/27/24
Drwg. Revision:
Drawn By: TAW
Checked By: JHM
File Name:

Sheet Title: *PARTIAL FLOOR PLAN - ELECTRICAL DEMOLITION*

Sheet No.: E-2.4

LIGHT FIXTURE DESIGNATION DESCRIPTION
EXAMPLE: B/HAI-1/b

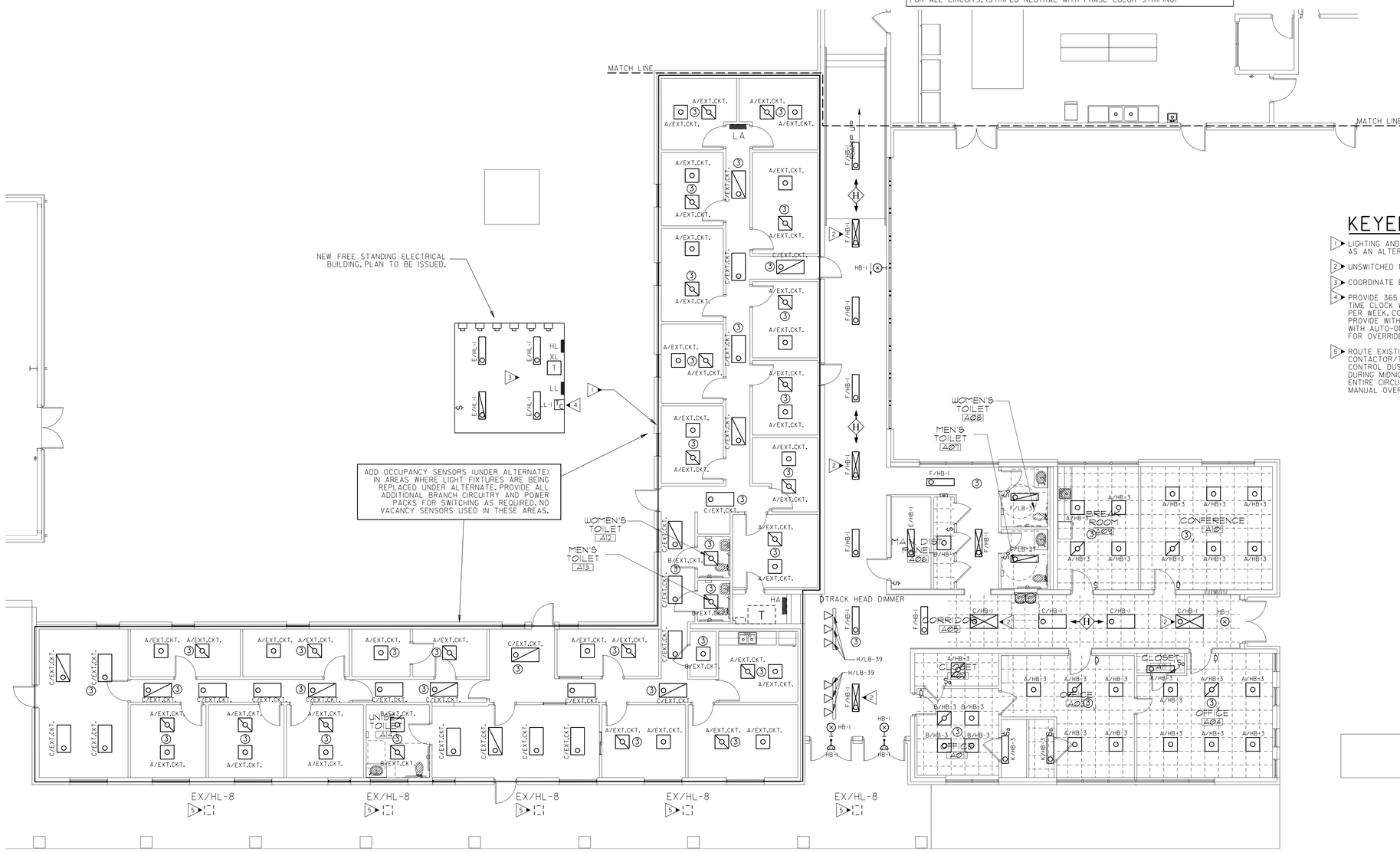
PANEL DESIGNATION:
CIRCUIT NUMBER
FIXTURE TYPE: TYPE "A" IF NO CAPITAL LETTER SHOWN
SWITCH LEG DESIGNATION WHEN MULTIPLE SWITCHES ARE IN SAME SPACE/AREA

B/ HAI-1/b

GENERAL NOTES: (THIS SHEET ONLY)

A. SEE GENERAL NOTES ON SHEET E-3.4.

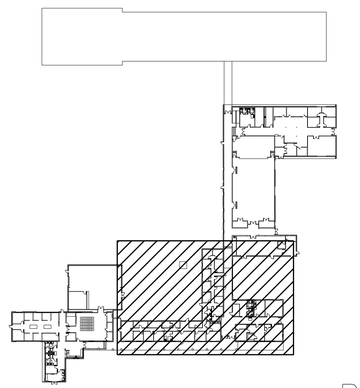
PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)



KEYED NOTES: (THIS SHEET ONLY)

1. LIGHTING AND OCCUPANCY SENSOR CONTROLS IN THIS AREA TO BE PROVIDED AS AN ALTERNATE. OTHERWISE EXISTING LIGHTING TO REMAIN.
2. UNSWITCHED NIGHT LIGHT FIXTURE.
3. COORDINATE EXACT LOCATION AND LAYOUT OF MAIN ELECTRICAL ROOM.
4. PROVIDE 365 DAY DIGITAL PROGRAMMABLE TYPE ELECTRONIC CONTROL TIME CLOCK WITH MINIMUM 12 CONTACTS AND MINIMUM 96 ON/OFF EVENTS PER WEEK. CONTACTS RATED FOR MINIMUM 30 AMPS AND 277 VOLTS. PROVIDE WITH NEMA TYPE 1 ENCLOSURE AND CAPACITOR BACKUP. PROVIDE WITH AUTO-ON-OFF FUNCTION. PROVIDE AUXILIARY INPUT FROM PHOTO CELL FOR OVERRIDE ON-OR-OFF CONTROL.
5. ROUTE EXISTING LIGHT FIXTURES THROUGH 12 POLE EXTERIOR LIGHTING CONTACTOR/TIMECLOCK LOCATED ADJACENT PANELS. PHOTO CELL SHALL CONTROL DUSK TILL DAWN OPERATION. TIMECLOCK SHALL INTERRUPT CIRCUIT DURING MIDNIGHT HOURS. SEE KEYED NOTE 4 ON SHEET E-3.1. USE #10'S ENTIRE CIRCUIT IN 3/4 IN. CONDUIT UNLESS NOTED OTHERWISE. PROVIDE MANUAL OVERRIDE SWITCH. COORDINATE FINAL LOCATION WITH OWNER.

1 E-3.1 PARTIAL FLOOR PLAN - LIGHTING
SCALE: 1/8"=1'-0"
0 4' 8'



KEY PLAN

PHASE I

ALPHA BLDG SET 08-27-2024

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Project No.: 2023012
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Checked By: JHM
File Name:

Sheet Title: *PARTIAL FLOOR PLAN - LIGHTING*

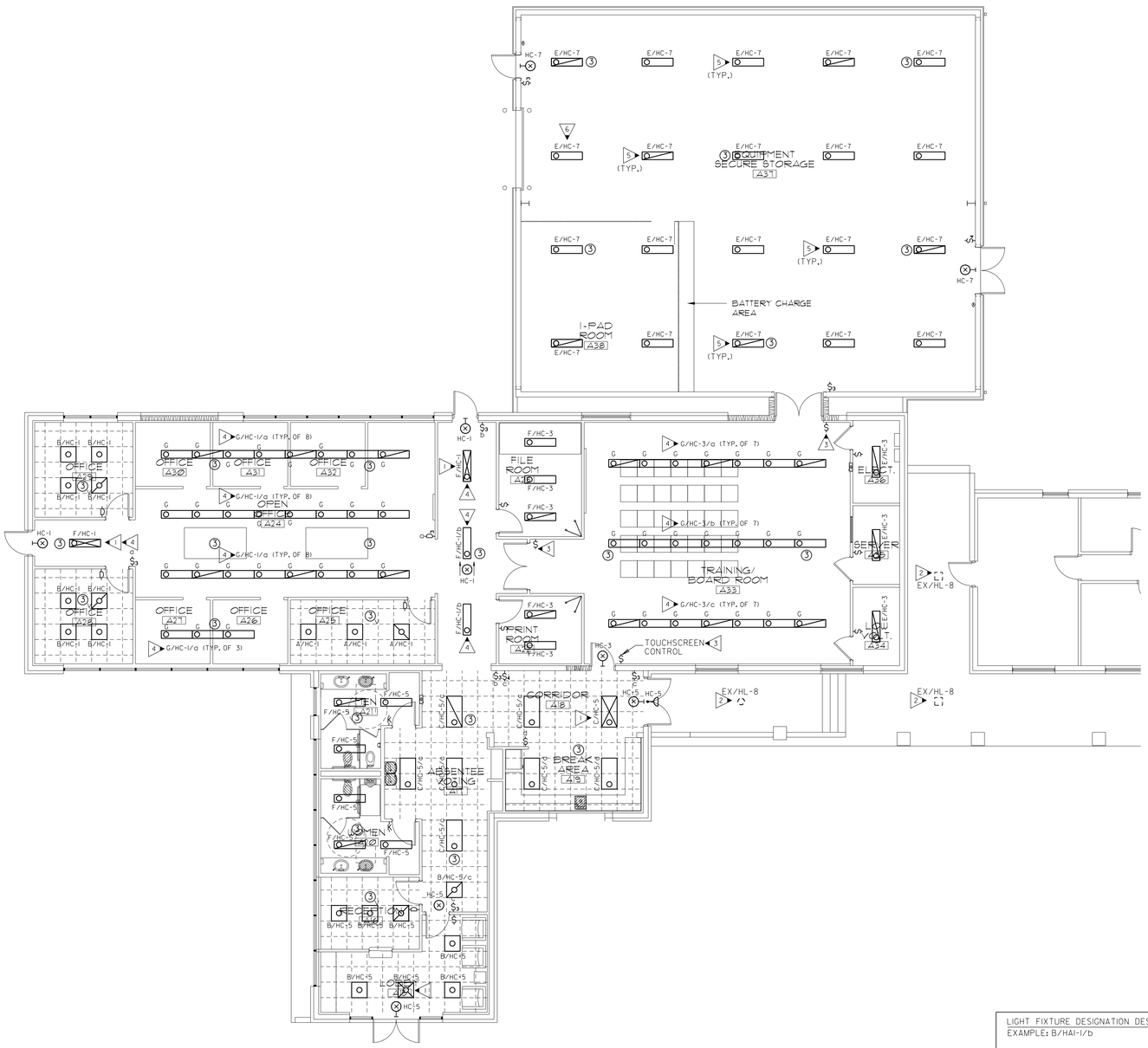
Sheet No.: E-3.1

GENERAL NOTES: (THIS SHEET ONLY)

A. SEE GENERAL NOTES ON SHEET E-3.4.

KEYED NOTES: (THIS SHEET ONLY)

1. UNSWITCHED NIGHT LIGHT FIXTURE.
2. ROUTE EXISTING LIGHT FIXTURES THROUGH 12 POLE EXTERIOR LIGHTING CONTACTOR/TIMECLOCK LOCATED ADJACENT PANELS. PHOTO CELL SHALL CONTROL DUSK TILL DAWN OPERATION. TIMECLOCK SHALL INTERRUPT CIRCUIT DURING MIDNIGHT HOURS. SEE KEYED NOTE 4 ON SHEET E-3.1. USE #10'S ENTIRE CIRCUIT IN 3/4 IN. CONDUIT UNLESS NOTED OTHERWISE. PROVIDE MANUAL OVERRIDE SWITCH. COORDINATE FINAL LOCATION WITH OWNER.
3. PROVIDE A THREE ZONE ROOM LIGHTING CONTROLLER SYSTEM. PROVIDE SYSTEM WITH TOUCHSCREEN CONTROL AND TWO MULTISCENE (4-SCENE+OFF+RAISE/LOWER) WALL BOX STATIONS AS SHOWN. PROVIDE SYSTEM COMPLETE WITH POWER PACKS, AND CONNECTIVY BETWEEN CONTROLLER. ROUTE ALL LIGHTING CIRCUITS VIA CONTROLLER OR CONTROLLED POWER PACK. SYSTEM TO BE FULLY PROGRAMABLE. PROVIDE INTERCONNECTIVITY REQUIRED BY SYSTEM PROVIDED. BASIS OF DESIGN IS THE NLIGHT NPOD SYSTEM. SYSTEM SHALL CONTROL FIXTURES FOR THE TRAINING ROOM WITH SHOWN INDICATIONS (a, b, c) WITH EACH INDICATION REPRESENTING A SEPARATELY CONTROLLED ZONE.
4. SUSPEND FIXTURE BOTTOM TO BE 10'-0" A.F.F. VERIFY MOUNTING HEIGHT WITH ARCHITECTURAL PRIOR TO ROUGH-IN.
5. SUSPEND FIXTURE BOTTOM TO BE 14'-0" A.F.F. VERIFY MOUNTING HEIGHT WITH ARCHITECTURAL PRIOR TO ROUGH-IN.
6. ADJUST LOCATION OF LIGHT FIXTURE AS REQUIRED FOR UNIMPEDED OPERATION OF OVERHEAD DOOR.



1 E-3.2 PARTIAL FLOOR PLAN - LIGHTING

SCALE: 1/8"=1'-0"

0 4' 8'

LIGHT FIXTURE DESIGNATION DESCRIPTION

EXAMPLE: B/HAI-1/b

PANEL DESIGNATION:

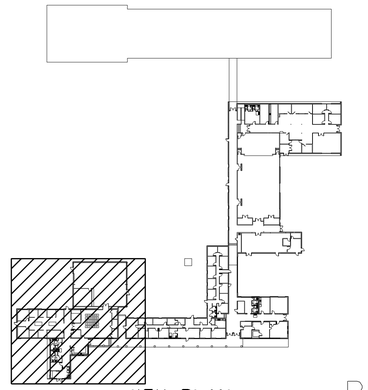
FIXTURE TYPE: TYPE "A" IF NO CAPITAL LETTER SHOWN

CIRCUIT NUMBER

SWITCH LEG DESIGNATION WHEN MULTIPLE SWITCHES ARE IN SAME SPACE/AREA

B/ HAI-1/b

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)



KEY PLAN

ALPHA BLDG SET

08-27-2024

PHASE 1

Seal: GEORGIA REGISTERED PROFESSIONAL ENGINEER JEFFREY H. McGEE

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Project:
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COVINGTON, GEORGIA.

Issue Date:	Initial	Drwg. Revision Description:
06-27-24	TAW	FOR CONSTRUCTION

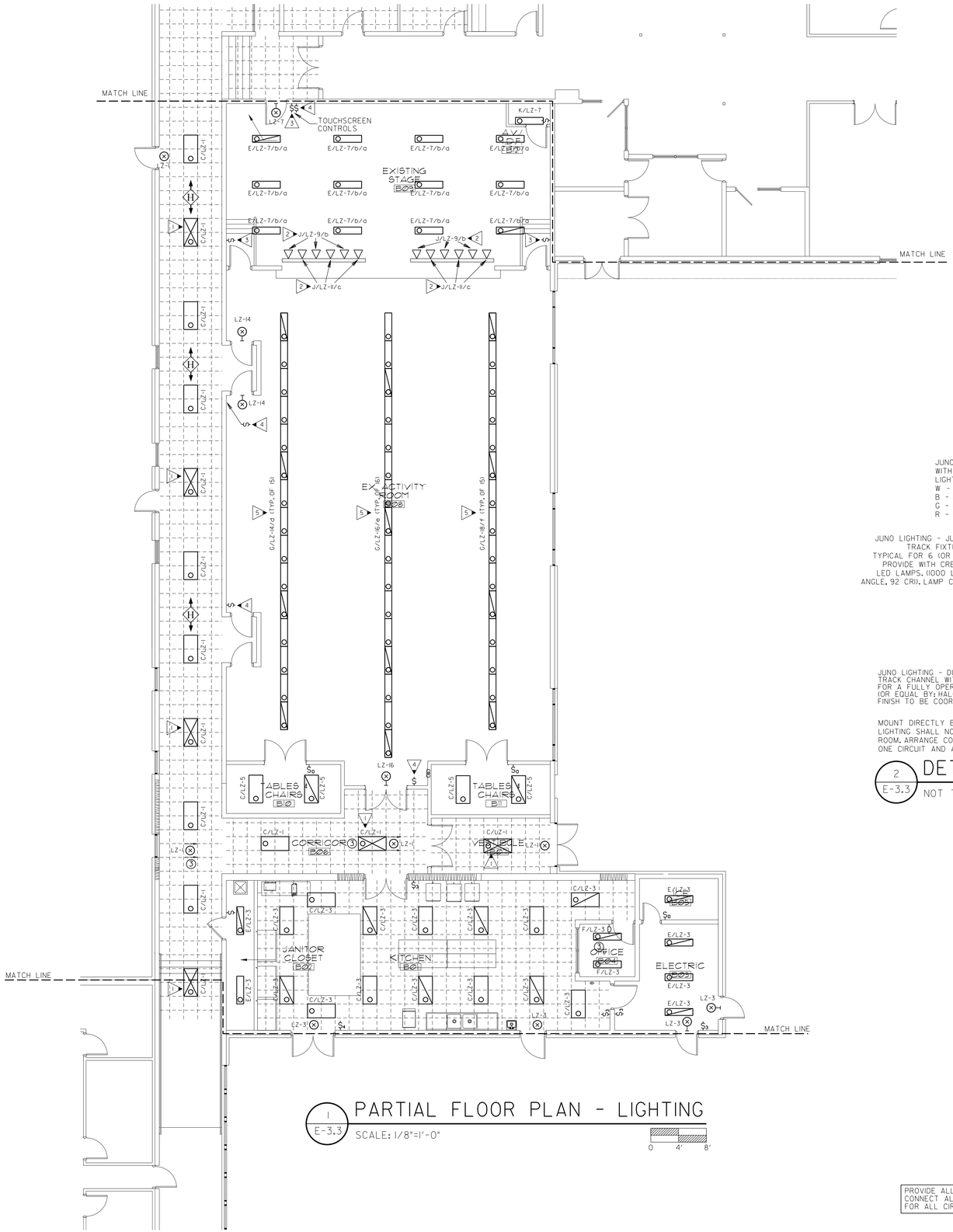
Project No.: 2023012
Drwg. Date: 06/27/24
Drwg. Revision:
Drawn By: TAW
Checked By: JHM
File Name:

Sheet Title: *PARTIAL FLOOR PLAN - LIGHTING*

Sheet No.: E-3.2

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ALPHA BLDG SET 08-27-2024



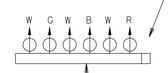
1 E-3.3 PARTIAL FLOOR PLAN - LIGHTING

SCALE: 1/8"=1'-0"

0 4' 8'

JUNO LIGHTING - TEMPERED GLASS LENSES WITH HOLDERS: (OR EQUAL BY HALO, WAC LIGHTING).
W - WHITE OR CLEAR
B - BLUE
G - GREEN
R - RED

JUNO LIGHTING - JUNO 'R533' SERIES LINE VOLTAGE TRACK FIXTURE, FINISH TO BE COORDINATED. TYPICAL FOR 6 (OR EQUAL BY: HALO, WAC LIGHTING). PROVIDE WITH CREE OR PHILLIPS PAR38 DIMMABLE LED LAMPS. (1000 LUMENS, 3500K, 25 DEGREE BEAM ANGLE, 92 CRI). LAMP COLORS AS SHOWN ON DRAWINGS.



JUNO LIGHTING - DUAL CIRCUIT 6FT. TRACK CHANNEL WITH ALL COMPONENTS FOR A FULLY OPERABLE TRACK SYSTEM. (OR EQUAL BY: HALO, WAC LIGHTING). FINISH TO BE COORDINATED.

MOUNT DIRECTLY BEHIND DROPPED SOFFIT PROSCENIUM (STAGE SIDE) TRACK LIGHTING SHALL NOT BE VISIBLE FROM NORMAL VIEWING ANGLE IN ACTIVITY ROOM. ARRANGE COLORS AS SHOWN. WHITE OR CLEAR FIXTURES TO BE ON ONE CIRCUIT AND ALL OTHER FIXTURES TO BE ON SECOND CIRCUIT.

2 E-3.3 DETAIL TRACK LIGHTING

NOT TO SCALE

KEYED NOTES: (THIS SHEET ONLY)

1. UNSWITCHED NIGHT LIGHT FIXTURE.
2. SEE 2/E-3.3, DETAIL TRACK LIGHTING.
3. PROVIDE A THREE ZONE ROOM LIGHTING CONTROLLER SYSTEM. PROVIDE SYSTEM WITH TOUCHSCREEN CONTROL AND TWO MULTISCENE (4-SCENE+OFF+RAISE/LOWER) WALL BOX STATIONS AS SHOWN. PROVIDE SYSTEM COMPLETE WITH POWER PACKS, AND CONNECTIVY BETWEEN CONTROLLER. ROUTE ALL LIGHTING CIRCUITS VIA CONTROLLER OR CONTROLLED POWER PACK. SYSTEM TO BE FULLY PROGRAMABLE. PROVIDE INTERCONNECTIVITY REQUIRED BY SYSTEM PROVIDED. BASIS OF DESIGN IS THE NLIGHT NPOD SYSTEM. SYSTEM SHALL CONTROL FIXTURES FOR THE STAGE WITH SHOWN INDICATIONS (a, b, c) WITH EACH INDICATION REPRESENTING A SEPARATELY CONTROLLED ZONE.
4. PROVIDE A THREE ZONE ROOM LIGHTING CONTROLLER SYSTEM. PROVIDE SYSTEM WITH TOUCHSCREEN CONTROL AND THREE MULTISCENE (4-SCENE+OFF+RAISE/LOWER) WALL BOX STATIONS AS SHOWN. PROVIDE SYSTEM COMPLETE WITH POWER PACKS, AND CONNECTIVY BETWEEN CONTROLLER. ROUTE ALL LIGHTING CIRCUITS VIA CONTROLLER OR CONTROLLED POWER PACK. SYSTEM TO BE FULLY PROGRAMABLE. PROVIDE INTERCONNECTIVITY REQUIRED BY SYSTEM PROVIDED. BASIS OF DESIGN IS THE NLIGHT NPOD SYSTEM. SYSTEM SHALL CONTROL FIXTURES FOR THE ACTIVITY ROOM WITH SHOWN INDICATIONS (d, e, f) WITH EACH INDICATION REPRESENTING A SEPARATELY CONTROLLED ZONE.
5. SUSPEND FIXTURES SUCH THAT BOTTOM ELEVATION IS 16'-0" A.F.F.

GENERAL NOTES: (THIS SHEET ONLY)

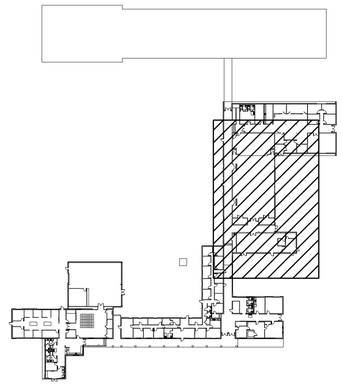
A. SEE GENERAL NOTES ON SHEET E-3.4.

LIGHT FIXTURE DESIGNATION DESCRIPTION
EXAMPLE: B/HAI-1/b

PANEL DESIGNATION:
CIRCUIT NUMBER
FIXTURE TYPE: TYPE "A" IF NO CAPITAL LETTER SHOWN
SWITCH LEG DESIGNATION WHEN MULTIPLE SWITCHES ARE IN SAME SPACE/AREA

B/ HAI-1/b

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)



KEY PLAN

PHASE 1

Seal: GEORGIA REGISTERED PROFESSIONAL ENGINEER JEFFREY H. McGEE

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Project: R. L. COUSINS CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA.

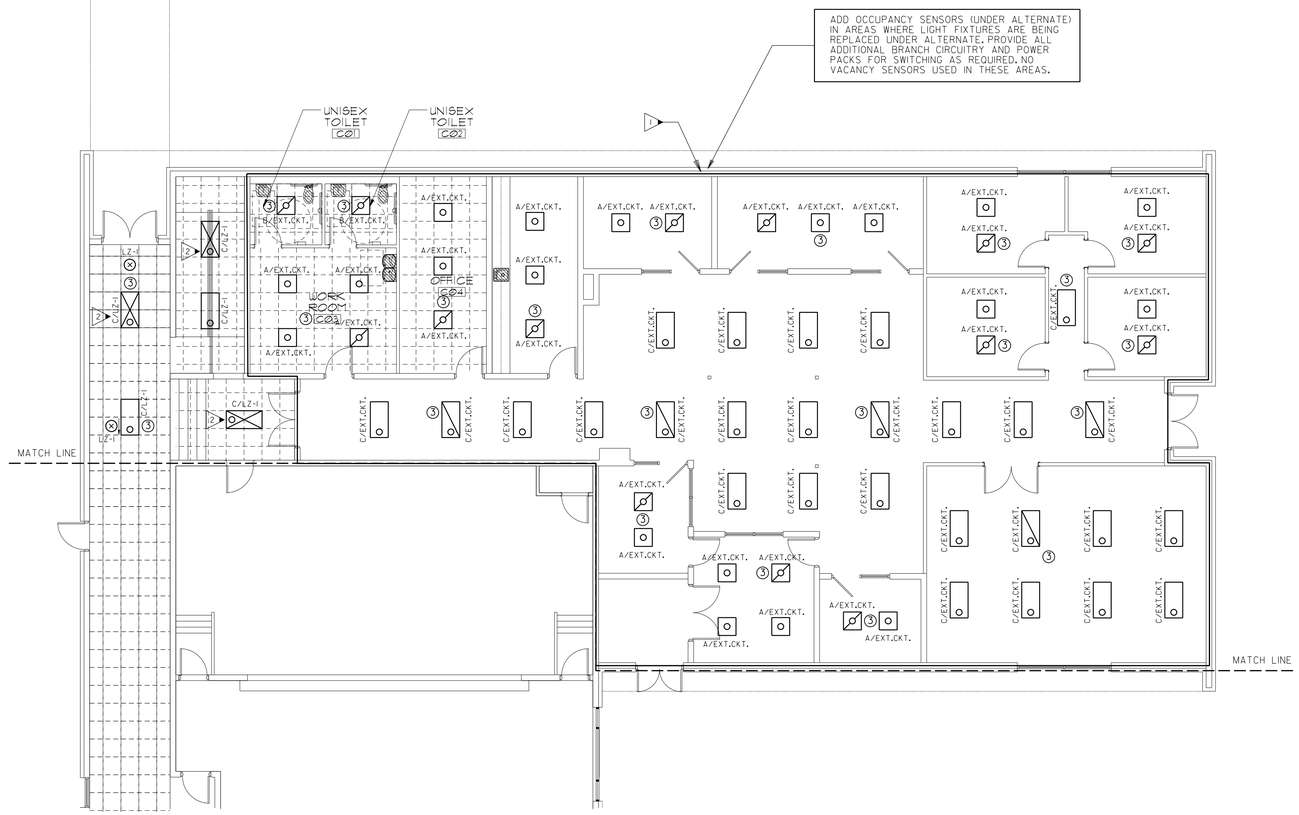
Issue Date:	Initial	Drwg. Revision Description:
06-27-24	TAW	FOR CONSTRUCTION

Project No.: 2023012
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Drawn By: TAW
Checked By: JHM
File Name:

Sheet Title: *PARTIAL FLOOR PLAN - LIGHTING*

Sheet No.: E-3.3

ALPHA BLDG SET 08-27-2024



1 E-3.4 PARTIAL FLOOR PLAN - LIGHTING

SCALE: 1/8"=1'-0"

0 4' 8'

GENERAL NOTES: (ALL LIGHTING SHEETS)

A. THIS PLAN INDICATES AREAS TO BE CONTROLLED BY MOTION SENSORS. SINCE COVERAGES AND DEVICES VARY BETWEEN MANUFACTURERS IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE PROPER DEVICE LOCATION, ORIENTATION AND QUANTITIES WITH THE MANUFACTURER OF THE SYSTEM BEING INSTALLED TO MEET THE SPECIFIED CRITERIA.

B. ALL AREA'S OF THIS PLAN REQUIRE OCCUPANCY SENSOR COVERAGE (EXCEPT FOR MECHANICAL AND ELECTRICAL ROOMS).

C. THERE ARE NO SWITCHPACKS SHOWN ON THIS PLAN. PROVIDE SWITCHPACKS AS REQUIRED WITH SENSORS. SWITCHPACKS ARE TO BE RATED AT 20A. PROVIDE ONE SWITCHPACK PER 20A LIGHTING CIRCUIT OR PER INDIVIDUAL AREA BEING CONTROLLED.

D. CEILING SENSORS ARE TO BE MOUNTED AWAY FROM ANY STRONG AIRFLOW. COORDINATE LOCATION OF SENSOR WITH MECHANICAL AND LIGHTING PLANS.

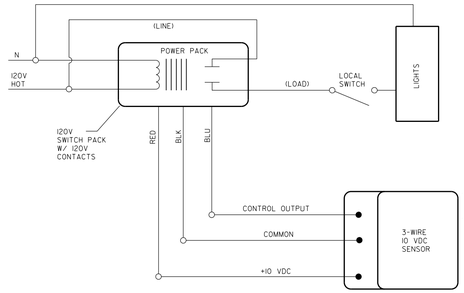
E. ALL SENSORS SHALL BE CEILING MOUNTED EXCEPT WHERE CEILING HEIGHTS EXCEED 15 FT.-0 IN. PROVIDE SENSOR WITH ADAPTOR PLATE FOR JUNCTION BOX MOUNTING (JUNCTION BOX SHALL BE CONCEALED ABOVE ACCESSIBLE CEILING) JUNCTION BOX SHALL BE SUPPORTED FROM STRUCTURE UTILIZING A 3/8IN. THREADED ROD. WHERE CEILING HEIGHTS EXCEED 15 FT.-0 IN. WALL MOUNT SENSORS AT 12 FT.-0 IN.

F. PROVIDE UNSWITCHED HOT CONDUCTOR TO ALL EMERGENCY AND EXIT LIGHTS.

KEYED NOTES: (THIS SHEET ONLY)

1 LIGHTING AND OCCUPANCY SENSOR CONTROLS IN THIS AREA TO BE PROVIDED AS AN ALTERNATE. OTHERWISE EXISTING LIGHTING TO REMAIN.

2 UNSWITCHED NIGHT LIGHT FIXTURE.



2 E-3.4 SCHEMATIC WIRING DIAGRAM - SENSOR CONTROL - LIGHTING

NOT TO SCALE

(SEE MANUFACTURERS RECOMMENDATION FOR SCHEMATIC WHERE MULTIPLE SENSORS OCCUR IN SAME SPACE.)

LIGHT FIXTURE DESIGNATION DESCRIPTION

EXAMPLE: B/HAI-1/b

PANEL DESIGNATION:

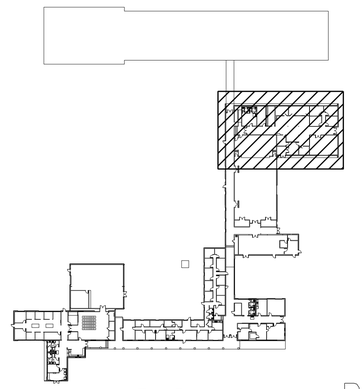
CIRCUIT NUMBER

FIXTURE TYPE: TYPE 'A' IF NO CAPITAL LETTER SHOWN

SWITCH LEG DESIGNATION WHEN MULTIPLE SWITCHES ARE IN SAME SPACE/AREA

B/ HAI -1/b

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)



KEY PLAN

PHASE 1

Seal: GEORGIA REGISTERED PROFESSIONAL ENGINEER JEFFREY H. McGEE

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Project: R. L. COUSINS CENTER
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COVINGTON, GEORGIA.

Issue Date:	Initial:	Drwg. Revision Description:
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Project No.: 2023012
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Checked By: JHM
File Name:

Sheet Title: *PARTIAL FLOOR PLAN - LIGHTING*

Sheet No.: E-3.4

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GENERAL NOTES: (THIS SHEET ONLY)

A. SEE GENERAL NOTES ON SHEET E-4.4.

KEYED NOTES: (THIS SHEET ONLY)

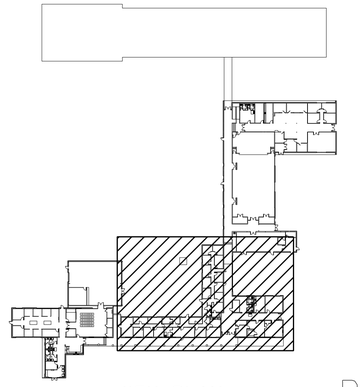
1. NO NEW POWER OR TEL/DATA/TV SYSTEMS WORK IN AREA UNLESS NOTED OTHERWISE.
2. PROVIDE RECEPTACLE, DATA OUTLET, AND TV OUTLET MOUNTED HIGH ON WALL FOR TV. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH OWNER PRIOR TO ROUGH-IN.
3. COORDINATE EXACT LOCATION AND LAYOUT OF MAIN ELECTRICAL ROOM.
4. REFER TO NEW POWER RISER DIAGRAM, 1/E-6.2.
5. PROVIDE BISCUIT DATA OUTLET FLUSH MOUNTED IN CEILING FOR WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION WITH OWNER/ ARCHITECT PRIOR TO ROUGH-IN.
6. PROVIDE BISCUIT DATA OUTLET FLUSH MOUNTED ABOVE ACCESSIBLE CEILING FOR WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
7. ELECTRIC WATER COOLER. REFER TO TYPICAL RECEPTACLE LOCATION @ ELECTRIC WATER COOLER, 7/E-7.1.

1 / E-4.1 PARTIAL FLOOR PLAN - POWER & TEL/DATA/TV SYSTEMS

SCALE: 1/8"=1'-0"

0 4' 8'

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)



KEY PLAN

PHASE 1

GEORGIA REGISTERED PROFESSIONAL ENGINEER JEFFREY H. McGEE
Seal:

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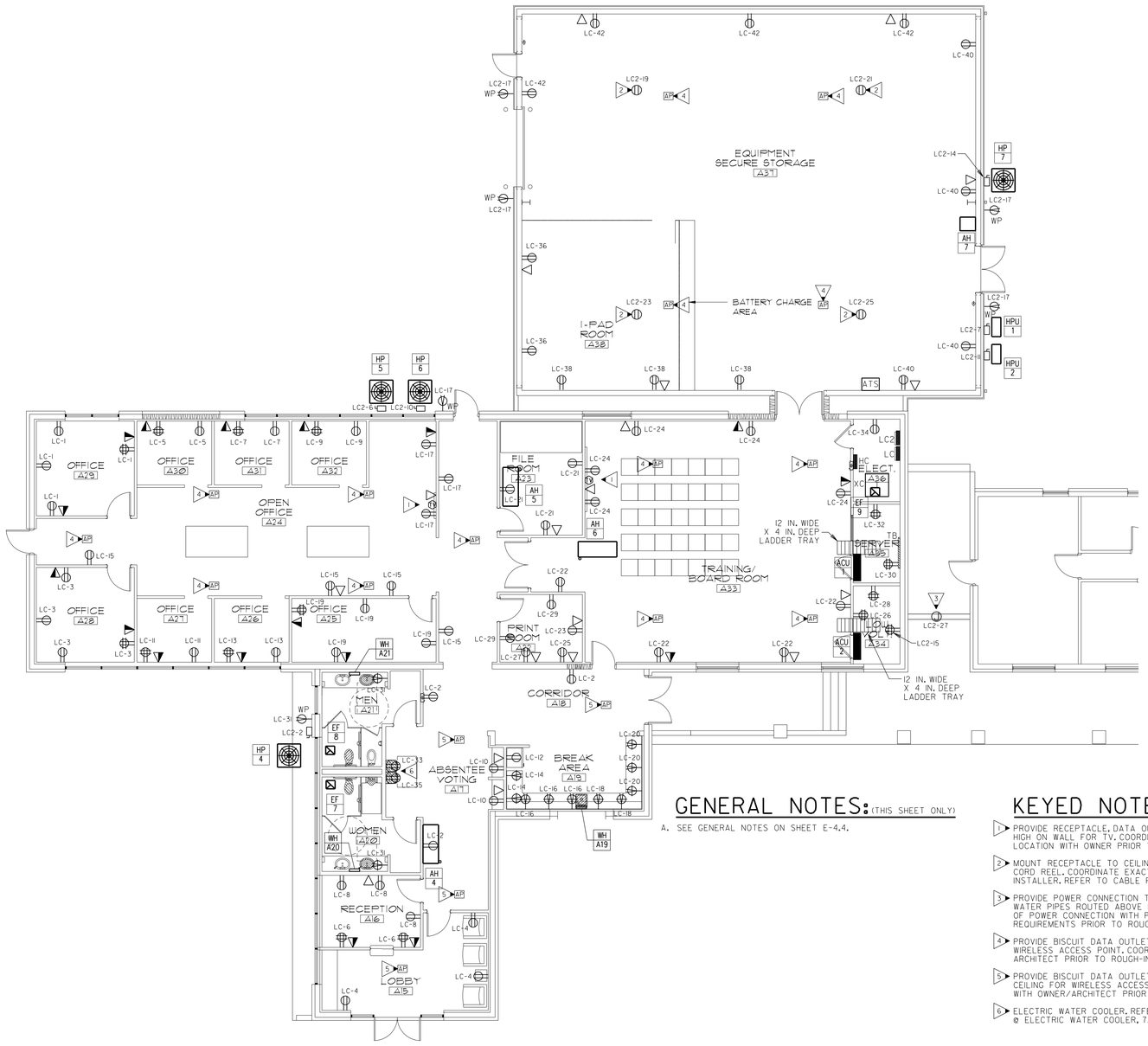
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Sheet Title:
PARTIAL FLOOR PLAN - POWER & TEL/DATA/TV

Sheet No.:
E-4.1

ALPHA BLDG SET 08-27-2024



PARTIAL FLOOR PLAN - POWER & TEL/DATA/TV SYSTEMS

E-4.2

SCALE: 1/8"=1'-0"

0 4' 8'

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)

GENERAL NOTES: (THIS SHEET ONLY)

A. SEE GENERAL NOTES ON SHEET E-4.4.

KEYED NOTES: (THIS SHEET ONLY)

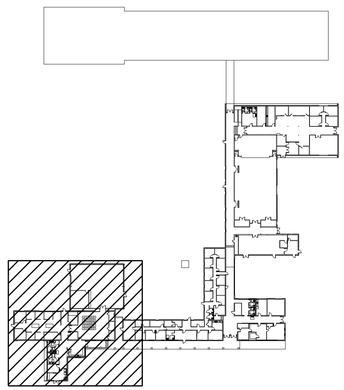
1. PROVIDE RECEPTACLE, DATA OUTLET, AND TV OUTLET MOUNTED HIGH ON WALL FOR TV. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH OWNER PRIOR TO ROUGH-IN.
2. MOUNT RECEPTACLE TO CEILING STRUCTURE FOR POWER TO EXTENSION CORD REEL. COORDINATE EXACT MOUNTING LOCATION WITH EQUIPMENT INSTALLER. REFER TO CABLE REEL DETAIL, 1/E7.1.
3. PROVIDE POWER CONNECTION TO HEAT TRACING SYSTEM FOR DOMESTIC WATER PIPES ROUTED ABOVE BREEZEWAY. COORDINATE EXACT LOCATION OF POWER CONNECTION WITH PLUMBING AND VERIFY EXACT POWER REQUIREMENTS PRIOR TO ROUGH-IN.
4. PROVIDE BISCUIT DATA OUTLET FLUSH MOUNTED IN CEILING FOR WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION WITH OWNER/ ARCHITECT PRIOR TO ROUGH-IN.
5. PROVIDE BISCUIT DATA OUTLET FLUSH MOUNTED ABOVE ACCESSIBLE CEILING FOR WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
6. ELECTRIC WATER COOLER. REFER TO TYPICAL RECEPTACLE LOCATION @ ELECTRIC WATER COOLER, 7/E-7.1.

MECHANICAL EQUIPMENT POWER SCHEDULE

UNIT NAME	VOLTAGE/ PHASE	CIRCUIT BREAKER	PANEL NAME/ CIRCUIT NUMBER	FEEDER	DISCONNECT SWITCH	NOTES
HP-1	208V/1PH	40A/2P	LB-2	3#8, #10G., 1 IN. C.	60A/2P/3R	1
HP-2	208V/1PH	40A/2P	LB-6	3#8, #10G., 1 IN. C.	60A/2P/3R	1
HP-3	208V/1PH	25A/2P	LB-10	3#10, #10G., 3/4 IN. C.	30A/2P/3R	1
HP-4	208V/1PH	40A/2P	LC2-2	3#8, #10G., 1 IN. C.	60A/2P/3R	1
HP-5	208V/1PH	60A/2P	LC2-6	3#6, #8G., 1 IN. C.	60A/2P/3R	1
HP-6	208V/1PH	50A/2P	LC2-10	3#6, #10G., 1 IN. C.	60A/2P/3R	1
HP-7	208V/1PH	40A/2P	LC2-14	3#8, #10G., 1 IN. C.	60A/2P/3R	1
HP-8	208V/1PH	25A/2P	LZ2-2	3#10, #10G., 3/4 IN. C.	30A/2P/3R	1
HP-9	208V/1PH	60A/2P	LZ2-12	3#6, #8G., 1 IN. C.	60A/2P/3R	1
AH-1	208V/3PH	35A/3P	LB-14	4#8, #10G., 1 IN. C.	60A/3P	1,2
AH-2	208V/3PH	35A/3P	LB-20	4#8, #10G., 1 IN. C.	60A/3P	1,2
AH-3	208V/3PH	35A/3P	LB-26	4#8, #10G., 1 IN. C.	60A/3P	1,2
AH-4	208V/3PH	35A/3P	LC2-18	4#8, #10G., 1 IN. C.	60A/3P	1,2
AH-5	208V/3PH	50A/3P	LC2-24	4#6, #10G., 1 IN. C.	60A/3P	1,2
AH-6	208V/3PH	50A/3P	LC2-30	4#6, #10G., 1 IN. C.	60A/3P	1,2
AH-7	208V/3PH	35A/3P	LC2-36	4#8, #10G., 1 IN. C.	60A/3P	1,2
AH-8	208V/3PH	35A/3P	LZ2-6	4#8, #10G., 1 IN. C.	60A/3P	1,2
AH-9	208V/3PH	50A/3P	LZ2-16	4#6, #10G., 1 IN. C.	60A/3P	1,2
HPU/ACU-1	208V/1PH	20A/2P	LC2-7	3#12, #12G., 3/4 IN. C.	30A/2P/3R	1,3
HPU/ACU-2	208V/1PH	20A/2P	LC2-11	3#12, #12G., 3/4 IN. C.	30A/2P/3R	1,3
PU-1	208V/3PH	275A/3P	SP-11	4#300MCM, #4G., 3 IN. C.	400A/3P FUSED DISCONNECT	1,7,8
EF-1	120V	CONNECT TO LIGHTS	CONNECT TO LIGHTS	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,4
EF-2	120V	CONNECT TO LIGHTS	CONNECT TO LIGHTS	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,4
EF-3	120V	20A/1P	LA-9	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,5
EF-4	120V	CONNECT TO LIGHTS	CONNECT TO LIGHTS	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,4,10
EF-5	120V	CONNECT TO LIGHTS	CONNECT TO LIGHTS	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,4,10
EF-6	120V	CONNECT TO LIGHTS	CONNECT TO LIGHTS	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,4,10
EF-7	120V	20A/1P	LC2-1	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,6
EF-8	120V	20A/1P	LC2-3	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,6
EF-9	120V	20A/1P	LC2-5	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,5
EF-10	120V	CONNECT TO LIGHTS	CONNECT TO LIGHTS	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,4,10
EF-11	120V	CONNECT TO LIGHTS	CONNECT TO LIGHTS	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,4,10
EF-12	120V	20A/1P	LB-32	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,5
EF-13	120V	20A/1P	LZ2-3	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,5
EF-14	120V	20A/1P	LZ2-5	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,5
EF-15	120V	20A/1P	LZ2-7	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,5
EF-16	120V	20A/1P	LZ2-9	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,5
EF-17	120V	20A/1P	LZ2-11	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,9
WH-A07	277V	20A/1P	HB-8	2#12, #12G., 3/4 IN. C.	MOTOR RATED SWITCH	
WH-A08	277V	20A/1P	HB-10	2#12, #12G., 3/4 IN. C.	MOTOR RATED SWITCH	
WH-A09	277V	50A/1P	HB-12	2#6, #10G., 1 IN. C.	60A/1P	
WH-A12	277V	20A/1P	HA-20	2#12, #12G., 3/4 IN. C.	MOTOR RATED SWITCH	
WH-A13	277V	20A/1P	HA-22	2#12, #12G., 3/4 IN. C.	MOTOR RATED SWITCH	
WH-A14	277V	20A/1P	HA-24	2#12, #12G., 3/4 IN. C.	MOTOR RATED SWITCH	
WH-A15	277V	50A/1P	HA-26	2#6, #10G., 1 IN. C.	60A/1P	
WH-A19	277V	50A/1P	HC-8	2#6, #10G., 1 IN. C.	60A/1P	
WH-A20	277V	40A/1P	HC-10	2#8, #10G., 1 IN. C.	60A/1P	
WH-A21	277V	40A/1P	HC-12	2#8, #10G., 1 IN. C.	60A/1P	
WH-B01	208V/1PH	30A/2P	LZ-40	3#10, #10G., 3/4 IN. C.	MOTOR RATED SWITCH	
WH-C01	208V/1PH	20A/2P	LW-2	3#12, #12G., 3/4 IN. C.	MOTOR RATED SWITCH	
WH-C02	208V/1PH	20A/2P	LW-6	3#12, #12G., 3/4 IN. C.	MOTOR RATED SWITCH	
WH-C05	208V/1PH	50A/2P	LW-10	3#6, #10G., 1 IN. C.	60A/2P	

NOTES:

1. SEE MECHANICAL FOR EXACT CONTROL REQUIREMENTS.
2. PROVIDE DUCT SMOKE DETECTOR IN SUPPLY AIR DUCT. UNIT SHALL COME COMPLETE WITH SAMPLING TUBE AND REMOTE TEST/RESET STATION LOCATED IN MECH/ELEC ROOM IN ACCESSIBLE LOCATION. DETECTOR SHALL SHUT DOWN UNIT UPON ACTIVATION.
3. INDOOR UNIT POWERED VIA OUTDOOR UNIT.
4. INTERLOCK AND POWER FAN VIA LIGHTING CIRCUIT IN AREA SERVED. PROVIDE 10 MINUTE TIME DELAY RELAY.
5. FAN SHALL BE CONTROLLED BY A LINE VOLTAGE THERMOSTAT LOCATED IN THE ROOM FAN FAN SERVES. THERMOSTAT TO BE PROVIDED BY ELECTRICAL. COORDINATE THERMOSTAT LOCATION WITH MECHANICAL.
6. FAN SHALL BE CONTROLLED BY A DIGITAL TIME CLOCK LOCATED AT RECEPTION A16. TIME CLOCK TO BE PROVIDED BY ELECTRICAL. WIRE TIME CLOCK PER MANUFACTURERS RECOMMENDATIONS.
7. PACKAGED UNIT IS EQUIPPED WITH SUPPLY AIR SMOKE DETECTOR LOCATED WITHIN UNIT CABINET. INTERLOCK DETECTOR WITH BUILDING FIRE ALARMS SYSTEM. DETECTOR SHALL SHUT DOWN UNIT UPON ACTIVATION.
8. NEW UNIT TO BE FED FROM EXISTING CIRCUIT FOR EXISTING DINING ROOM UNIT. NEW FUSED DISCONNECT TO BE PROVIDED WITH FUSES SIZED PER NEW UNIT MOCP. FIELD VERIFY EXACT EXISTING CONDITIONS OF EXISTING CIRCUIT PRIOR TO ANY ELECTRICAL WORK.
9. FAN SHALL BE CONTROLLED BY A SWITCH LOCATED IN THE ROOM FAN SERVES.
10. FIELD CONFIRM EXISTING LIGHTING CIRCUIT VOLTAGE IS 120V PRIOR TO ANY ELECTRICAL WORK.



KEY PLAN

PHASE I

GEORGIA REGISTERED PROFESSIONAL ENGINEER JEFFREY H. McGEE
Seal:

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Project: R. L. COUSINS CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA.

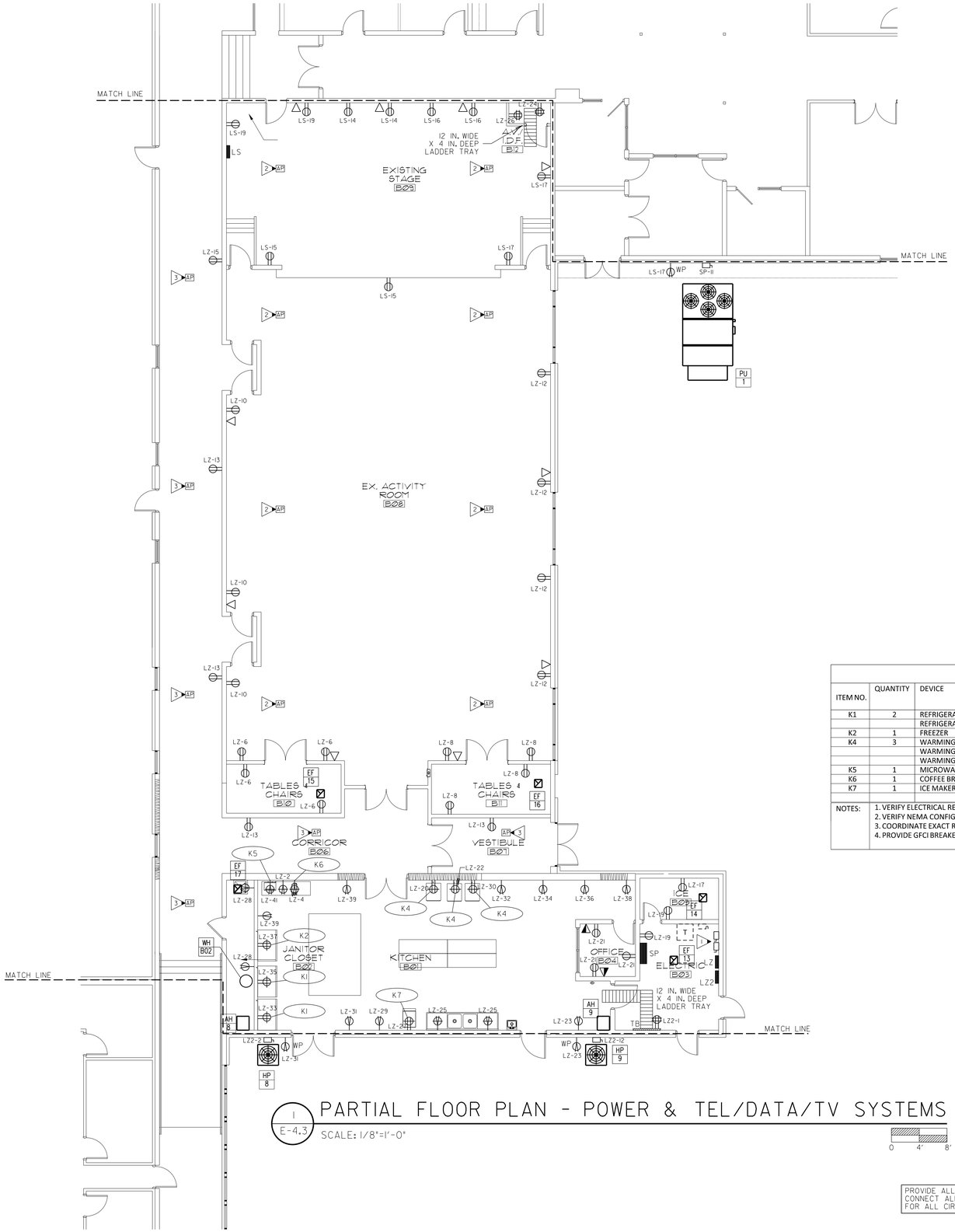
Issue Date:	Initial:	Drwg. Revision Description:
06-27-24	TAW	FOR CONSTRUCTION

Project No.: 2023012
Drwg. Date: 06/27/24
Drwg. Revision:
Drawn By: TAW
Checked By: JHM
File Name:

Sheet Title: PARTIAL FLOOR PLAN - POWER & TEL/DATA/TV

Sheet No.: E-4.2

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I
E-4.3

PARTIAL FLOOR PLAN - POWER & TEL/DATA/TV SYSTEMS

SCALE: 1/8"=1'-0"

0 4' 8'

KEYED NOTES: (THIS SHEET ONLY)

1. REFER TO NEW POWER RISER DIAGRAM, I/E-6.2.
2. PROVIDE BISCUIT DATA OUTLET FLUSH MOUNTED IN CEILING FOR WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION WITH OWNER/ ARCHITECT PRIOR TO ROUGH-IN.
3. PROVIDE BISCUIT DATA OUTLET FLUSH MOUNTED ABOVE ACCESSIBLE CEILING FOR WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.

GENERAL NOTES: (THIS SHEET ONLY)

A. SEE GENERAL NOTES ON SHEET E-4.4.

GENERAL KITCHEN NOTES: (THIS SHEET ONLY)

A. ALL EXPOSED OUTLETS IN KITCHEN AND SERVING AREA SHALL BE CAST METAL AND WATER PROOF.

B. ALL FLEXIBLE CONDUIT SHALL BE WATERPROOF.

C. WHERE KITCHEN EQUIPMENT SHOP DRAWINGS CALL FOR DIRECT CONNECTION AND A RECEPTACLE IS SHOWN ON THE DRAWING, PROVIDE RECEPTACLE, PLUG, AND CORDSET.

D. BEFORE ROUGHING IN ANY OUTLETS OR ORDERING ANY RECEPTACLES, PLUGS, CORD SETS, DISCONNECTS, OR ANY ITEMS NECESSARY FOR THE CONNECTION OF KITCHEN EQUIPMENT, THE CONTRACTOR SHALL CONSULT THE SHOP DRAWINGS FOR THE EQUIPMENT ACTUALLY BEING FURNISHED (UNDER THE CONTRACT OR BY THE OWNER) FOR THE PROJECT AND SHALL PROVIDE AND INSTALL DEVICES, CIRCUITS AND ANY OTHER APPURTENANCES COMPATIBLE WITH THE EQUIPMENT FURNISHED SHALL BE PROVIDED AT NO COST TO THE OWNER.

E. ALL EXPOSED CONDUITS SHALL BE RIGID STEEL.

F. ALL 20A RECEPTACLES IN KITCHEN SHALL BE GFCI TYPE.

G. COORDINATE CORD AND PLUG REQUIREMENT FOR KITCHEN EQUIPMENT WITH EQUIPMENT PROVIDER.

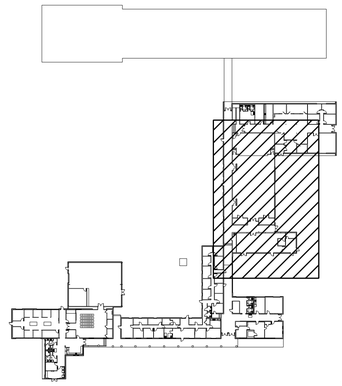
KITCHEN EQUIPMENT POWER SCHEDULE

ITEM NO.	QUANTITY	DEVICE	VOLTAGE/ PHASE	AMPS	CIRCUIT BREAKER	CIRCUIT NUMBER	FEEDER	DISCONNECT	NEMA CONNECTION	NOTES
K1	2	REFRIGERATOR	120V	6.7A	20A/1P	LZ-33	2#12, #12G., 1/2 IN. C.	CORD AND PLUG	5-15P	1,2,3,4
		REFRIGERATOR	120V	6.7A	20A/1P	LZ-35	2#12, #12G., 1/2 IN. C.	CORD AND PLUG	5-15P	1,2,3,4
K2	1	FREEZER	120V	11.1A	20A/1P	LZ-37	2#12, #12G., 1/2 IN. C.	CORD AND PLUG	5-15P	1,2,3,4
K4	3	WARMING CABINET	120V	15A	20A/1P	LZ-20	2#12, #12G., 1/2 IN. C.	CORD AND PLUG	5-20P	1,2,3,4
		WARMING CABINET	120V	15A	20A/1P	LZ-20	2#12, #12G., 1/2 IN. C.	CORD AND PLUG	5-20P	1,2,3,4
		WARMING CABINET	120V	15A	20A/1P	LZ-20	2#12, #12G., 1/2 IN. C.	CORD AND PLUG	5-20P	1,2,3,4
K5	1	MICROWAVE	120V	13.4A	20A/1P	LZ-41	2#12, #12G., 1/2 IN. C.	CORD AND PLUG	5-15P	1,2,3
K6	1	COFFEE BREWER	120V	13.8A	20A/1P	LZ-4	2#12, #12G., 1/2 IN. C.	CORD AND PLUG	5-15P	1,2,3
K7	1	ICE MAKER	120V	9.1A	20A/1P	LZ-27	2#12, #12G., 1/2 IN. C.	CORD AND PLUG	5-15P	1,2,3,4

NOTES:
1. VERIFY ELECTRICAL REQUIREMENTS WITH EQUIPMENT VENDOR PRIOR TO ROUGH-IN.
2. VERIFY NEMA CONFIGURATION PRIOR TO ROUGH-IN.
3. COORDINATE EXACT ROUGH-IN HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
4. PROVIDE GFCI BREAKER FOR EQUIPMENT.

ALPHA BLDG SET 08-27-2024

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)



KEY PLAN

PHASE I

Seal: GEORGIA REGISTERED PROFESSIONAL ENGINEER JEFFREY H. McGEE

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R. L. COUSINS CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA.

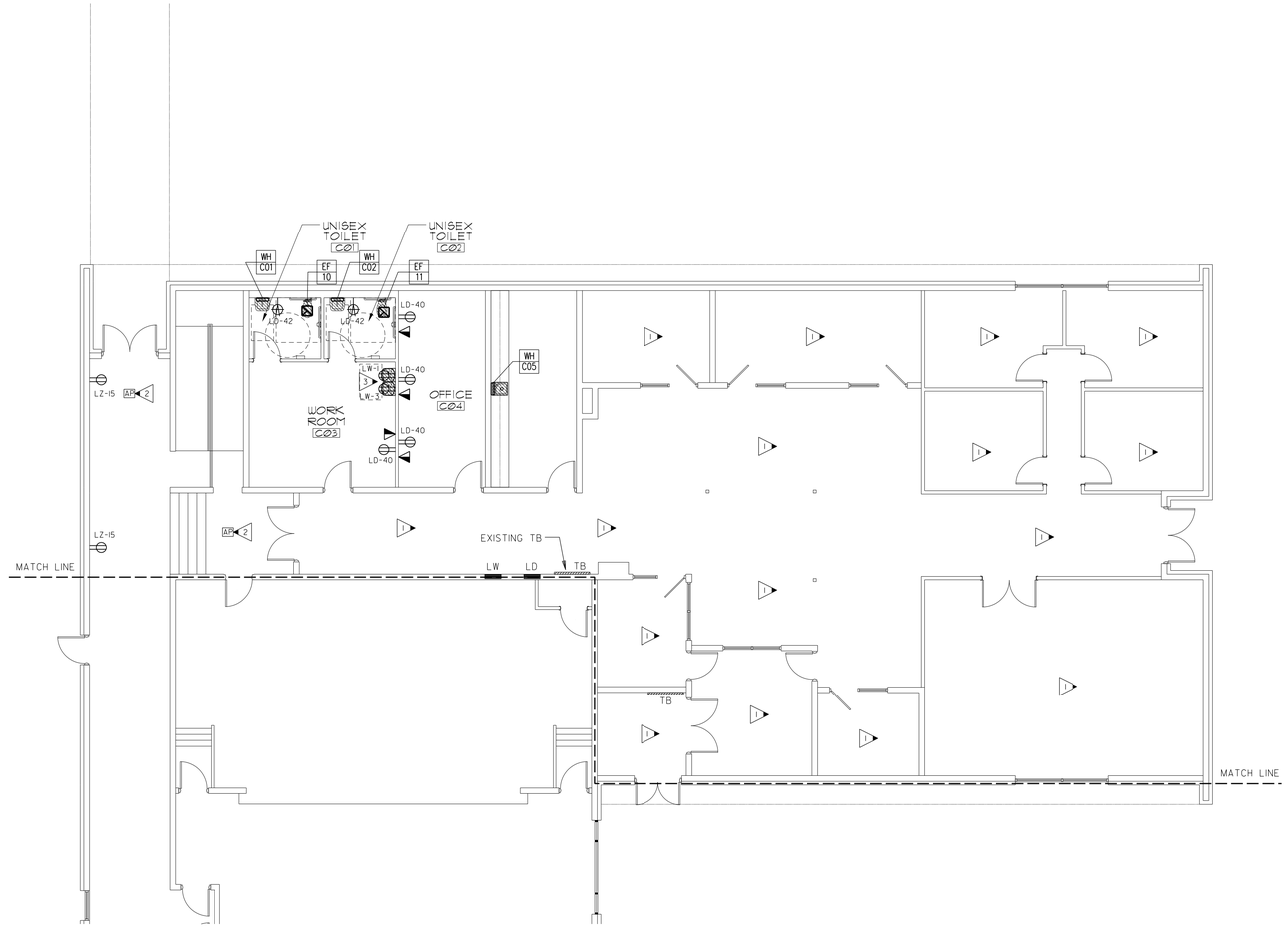
Issue Date:	Initial:	Drwg. Revision Description:
06-27-24	TAW	FOR CONSTRUCTION

Project No.: 2023012
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Drwg. Revision:
Drawn By: TAW
Checked By: JHM
File Name:

Sheet Title:
PARTIAL FLOOR PLAN - POWER & TEL/DATA/TV

Sheet No.:
E-4.3

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1 / E-4.4 PARTIAL FLOOR PLAN - POWER & TEL/DATA/TV SYSTEMS

SCALE: 3/32"=1'-0"

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)

GENERAL NOTES: (ALL POWER & TEL/DATA/TV SHEETS)

A. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT. PRIOR TO ELECTRICAL ROUGH-IN.

B. ALL FLEXIBLE CONDUIT SHALL BE METALLIC WATERPROOF.

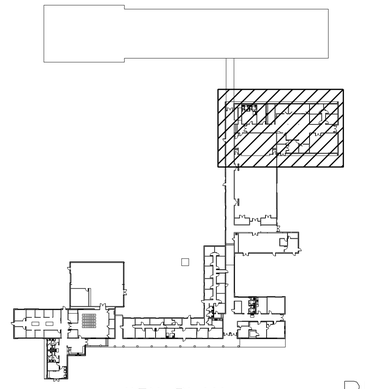
C. COORDINATE FINAL RECEPTACLE AND VOICE/DATA OUTLET LOCATIONS WITH ARCHITECTURAL CASEWORK AND OWNER PRIOR TO ROUGH-IN, NO EXCEPTIONS.

D. COORDINATE EXACT CONDUIT REQUIREMENTS FOR THERMOSTATS TO ALL AIR HANDLING UNITS. SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS. PROVIDE OUTLET BOXES AND CONDUIT TO ABOVE CEILINGS FOR ALL THERMOSTATS.

E. FIRE SEAL ALL FIREWALL PENETRATIONS.

KEYED NOTES: (THIS SHEET ONLY)

1. NO NEW POWER OR TEL/DATA/TV SYSTEMS WORK IN AREA UNLESS NOTED OTHERWISE.
2. PROVIDE BISCUIT DATA OUTLET FLUSH MOUNTED ABOVE ACCESSIBLE CEILING FOR WIRELESS ACCESS POINT, COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
3. ELECTRIC WATER COOLER. REFER TO TYPICAL RECEPTACLE LOCATION @ ELECTRIC WATER COOLER, T/E-7.1.



KEY PLAN

ALPHA BLDG SET 08-27-2024

PHASE 1

Seal: GEORGIA REGISTERED PROFESSIONAL ENGINEER JEFFREY H. McGEE

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Project: R. L. COUSINS CENTER
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COVINGTON, GEORGIA.

Issue Date:	Initial	Drwg. Revision Description:
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File Name:

Sheet Title: PARTIAL FLOOR PLAN – POWER & TEL/DATA/TV

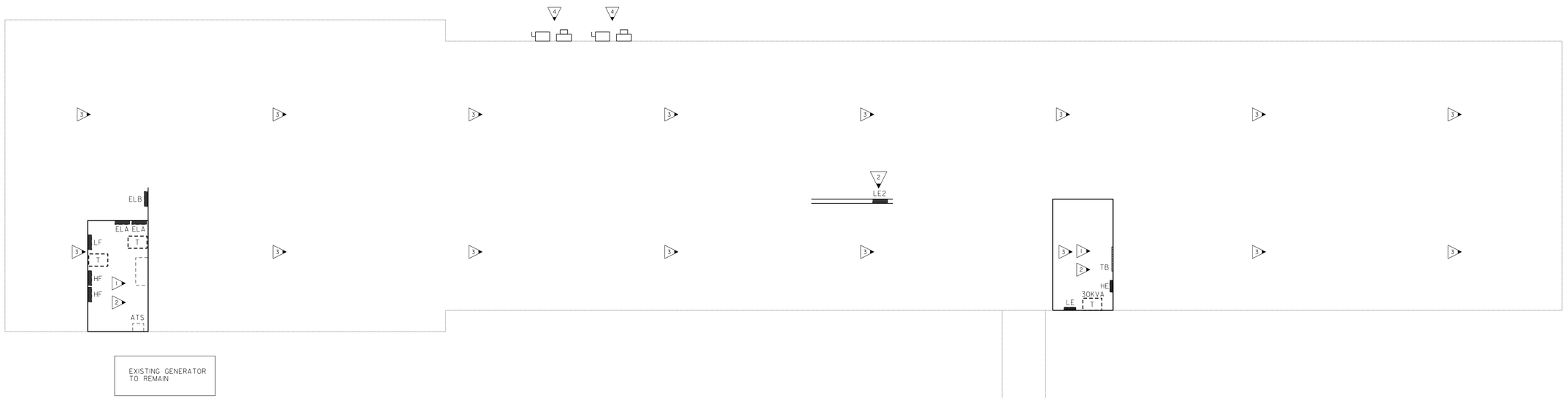
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GENERAL NOTES: (THIS SHEET ONLY)

A. SEE GENERAL NOTES ON SHEET E-4.4.

KEYED NOTES: (THIS SHEET ONLY)

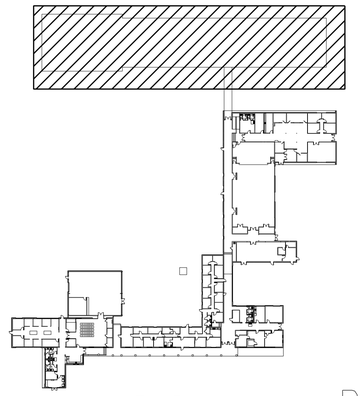
1. FIELD VERIFY EXACT LOCATION OF ELECTRICAL ROOMS AND EQUIPMENT.
2. EXISTING ELECTRICAL EQUIPMENT IN SPACE TO REMAIN. EXISTING SERVICE TO BE REPLACED AND EQUIPMENT TO BE REFED. SEE NEW POWER RISER DIAGRAM, 1/E-6.2 FOR NEW SERVICE.
3. NO DEMOLITION WORK IN AREA UNLESS NOTED OTHERWISE.
4. REFER TO NEW POWER RISER DIAGRAM, 1/E-6.2.



1 / E-4.5 PARTIAL FLOOR PLAN - POWER & TEL/DATA/TV SYSTEMS

SCALE: 3/32"=1'-0"

0 3' 6'



KEY PLAN

PHASE I

ALPHA BLDG SET 08-27-2024

GEORGIA REGISTERED PROFESSIONAL ENGINEER JEFFREY H. McGEE
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PARTIAL FLOOR PLAN - POWER & TEL/DATA/TV

Sheet No.:
E-4.5

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KEYED NOTES: (THIS SHEET ONLY)

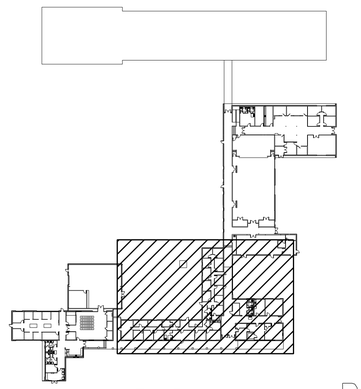
1. NEW FIRE ALARM CONTROL PANEL. MARK CIRCUIT BREAKER FOR FACP IN PANEL PER 2020 NEC. PROVIDE HASP LOCK ON BREAKER. ROUTE ALL NEW FIRE ALARM DEVICES AND EXISTING FIRE ALARM DEVICES TO NEW PANEL.
2. NO NEW SOUND, OR SECURITY WORK IN AREA UNLESS NOTED OTHERWISE.
3. COORDINATE EXACT LOCATION AND LAYOUT OF MAIN ELECTRICAL ROOM.
4. PROVIDE FIRE ALARM SYSTEM MONITORING AT ALL FIRE SPRINKLER FLOW AND TAMPER SWITCHES AT FIRE RISER. COORDINATE EXACT LOCATIONS AND QUANTITIES WITH FIRE PROTECTION DRAWINGS.

1 / E-5.1 PARTIAL FLOOR PLAN - FIRE ALARM, SOUND & SECURITY

SCALE: 1/8"=1'-0"

0 4' 8'

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)



KEY PLAN

PHASE I

GEORGIA REGISTERED PROFESSIONAL ENGINEER JEFFREY H. McGEE
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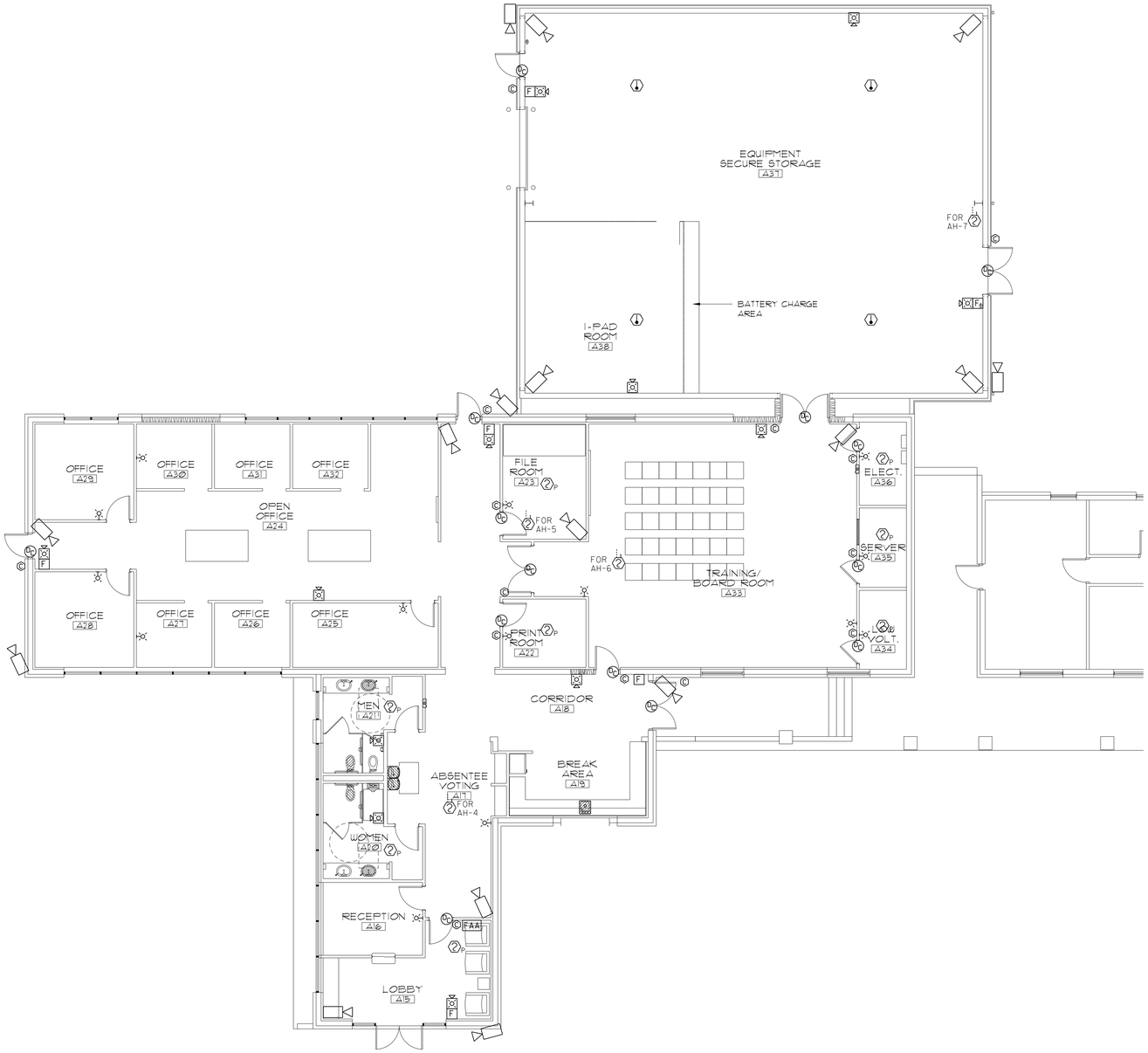
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Sheet Title:
PARTIAL FLOOR PLAN - FIRE ALARM, SOUND & SECURITY

Sheet No.:
E-5.1

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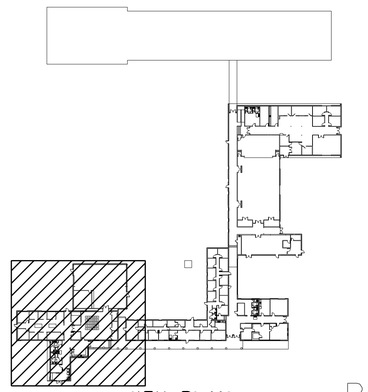


1 E-5.2 PARTIAL FLOOR PLAN - FIRE ALARM, SOUND & SECURITY

SCALE: 1/8"=1'-0"

0 4' 8'

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)



KEY PLAN

PHASE I

Seal: GEORGIA REGISTERED PROFESSIONAL ENGINEER JEFFREY H. McGEE

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Client: sunbelt BUILDERS™
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Project:
R. L. COUSINS CENTER
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8134 GEIGER STREET, N.W.
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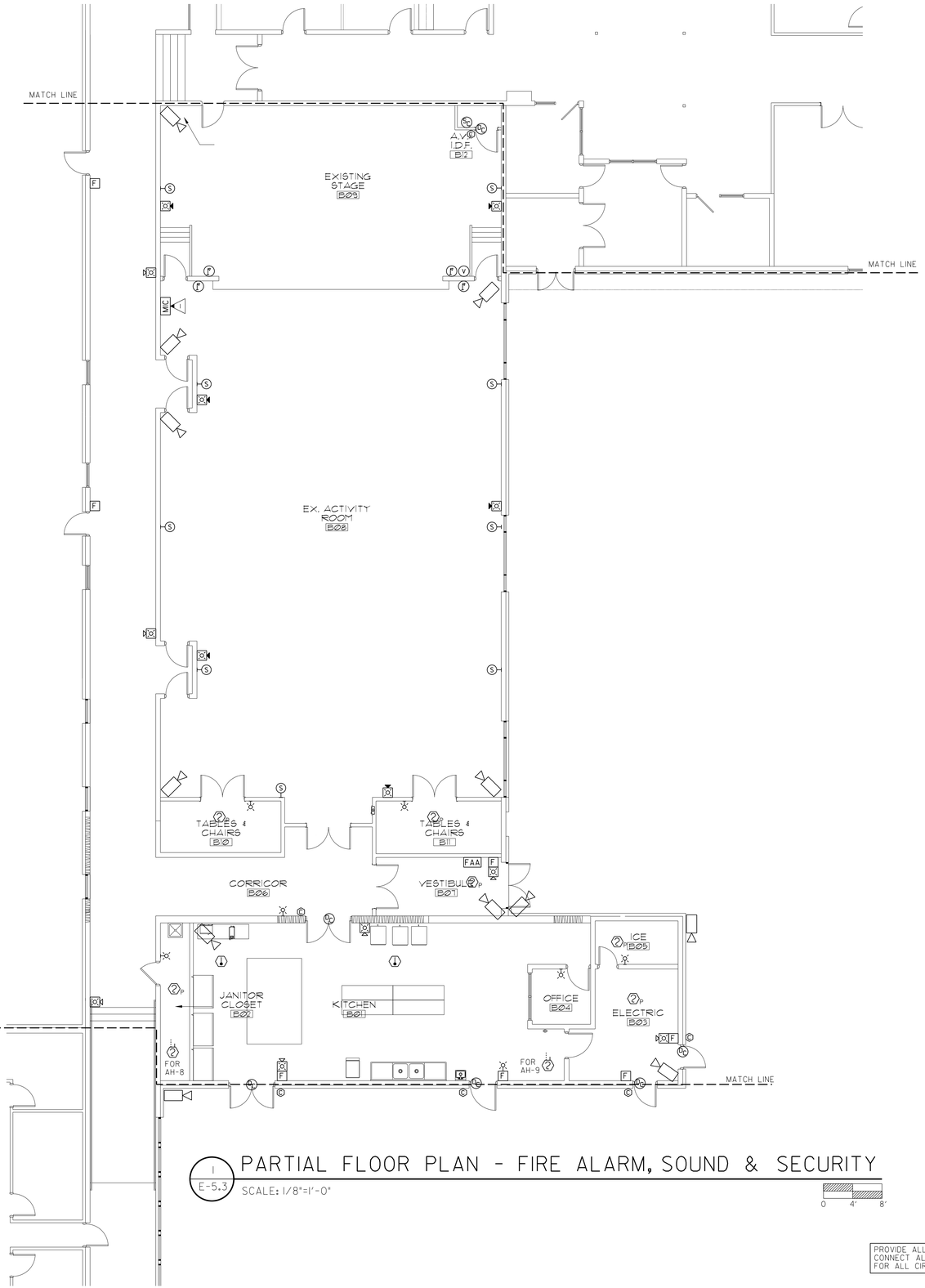
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06-27-24	TAW	FOR CONSTRUCTION

Project No.: 2023012
Drwg. Date: 06/27/24
Drwg. Revision:
Drawn By: TAW
Checked By: JHM
File Name:

Sheet Title: PARTIAL FLOOR PLAN - FIRE ALARM, SOUND & SECURITY

Sheet No.: E-5.2

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1 E-5.3 PARTIAL FLOOR PLAN - FIRE ALARM, SOUND & SECURITY

SCALE: 1/8"=1'-0"

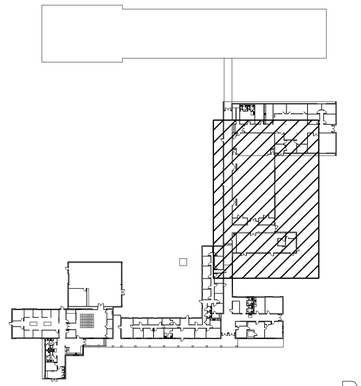
0 4' 8'

KEYED NOTES: (THIS SHEET ONLY)

1. COORDINATE EXACT LOCATION OF REMOTE VOICE EVACUATION MICROPHONE WITH OWNER AND LOCAL JURISDICTION PRIOR TO ROUGH-IN.

ALPHA BLDG SET 08-27-2024

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)



KEY PLAN

PHASE 1

Seal: GEORGIA REGISTERED PROFESSIONAL ENGINEER JEFFREY H. McGEE

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175 NEW ST.-STE.1
MACON, GA 31201
EDC• M24004

Client: sunbelt BUILDERS
10641 HWY 36, COVINGTON, GA 30014, TEL: 770 786 3031

Project: R. L. COUSINS CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA.

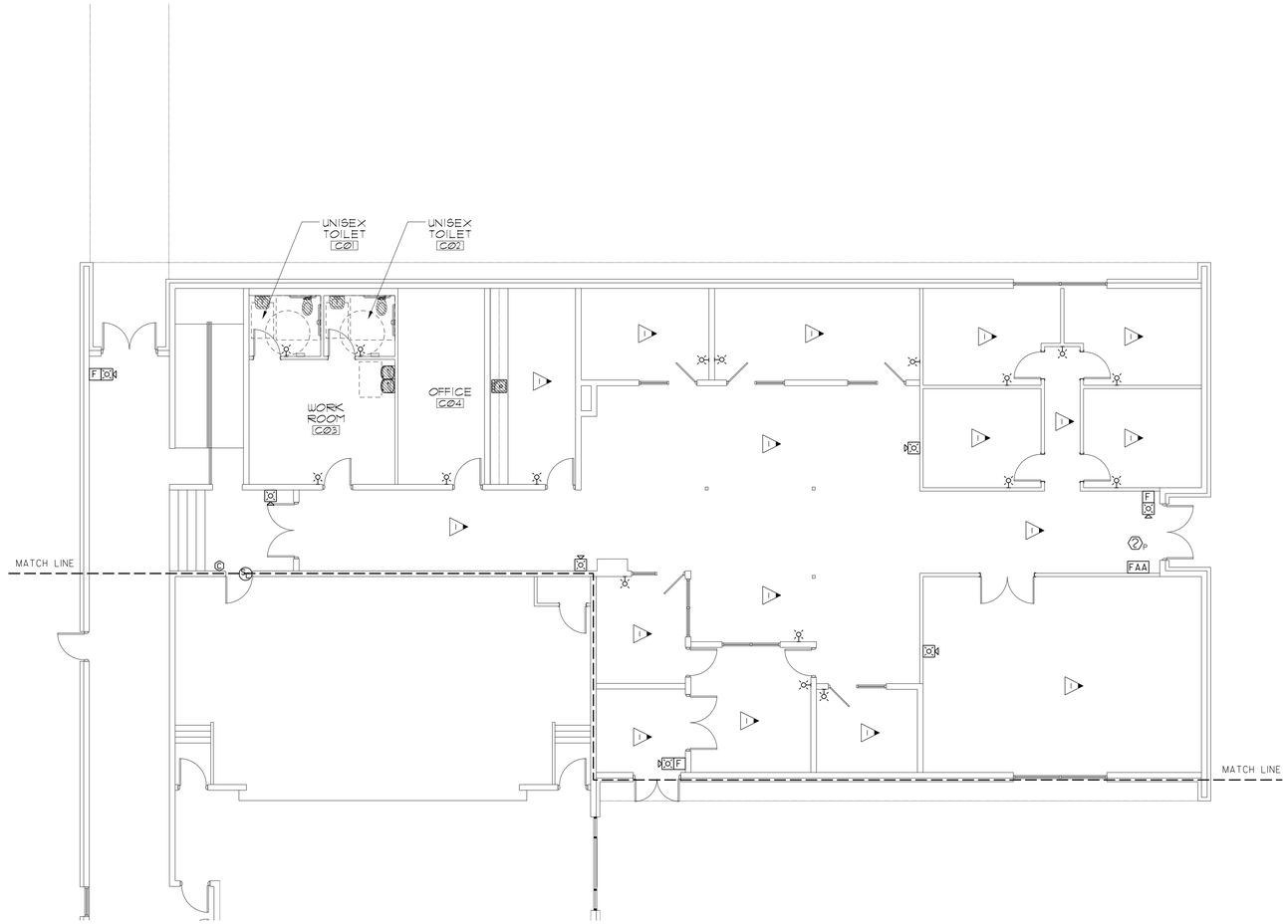
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Project No.: 2023012
Drwg. Date: 06/27/24
Drwg. Revision:
Drawn By: TAW
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Sheet Title: PARTIAL FLOOR PLAN - FIRE ALARM, SOUND & SECURITY

Sheet No.: E-5.3

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1 / E-5.4 PARTIAL FLOOR PLAN - FIRE ALARM, SOUND & SECURITY

SCALE: 3/32"=1'-0"

KEYED NOTES: (THIS SHEET ONLY)

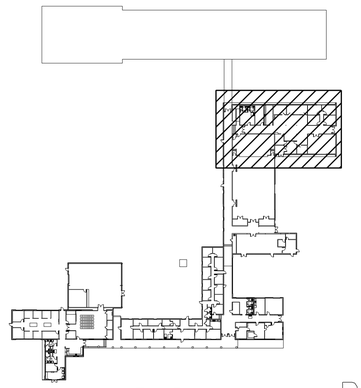
1 ▶ NO SOUND, OR SECURITY WORK IN AREA UNLESS NOTED OTHERWISE.

FIRE ALARM SUBCONTRACTOR SUBMITTAL REQUIREMENTS TO AUTHORITY HAVING JURISDICTION:

IN ACCORDANCE WITH CHAP 7, NFPA 72 THE FOLLOWING LIST REPRESENTS THE MINIMUM DOCUMENTATION REQUIRED BY THE AUTHORITY HAVING JURISDICTION FOR ALL FIRE ALARM SYSTEMS:

1. THE PRINTED NAME, SIGNATURE AND COPY OF CURRENT GEORGIA LICENSE OF THE LOW VOLTAGE CONTRACTOR WHO IS SUBMITTING THE FIRE ALARM PLANS FOR REVIEW AND WHO WILL BE RESPONSIBLE FOR INSTALLATION.
2. WRITTEN NARRATIVE PROVIDING INTENT AND SYSTEM DESCRIPTION.
3. A FIRE ALARM RISER DIAGRAM.
4. A FLOOR PLAN LAYOUT WITH ROOM NAMES, DOOR LOCATIONS, FIXTURES (DRAWN TO SCALE) SHOWING LOCATION OF ALL DEVICES AND CONTROL EQUIPMENT. DEVICES AND EQUIPMENT SHOWN ON DRAWINGS IS THE MINIMUM REQUIRED. PROVIDE ALL ADDITIONAL DEVICES AND EQUIPMENT AS REQUIRED TO MEET ALL NFPA, IBC, GEORGIA STATE AND LOCAL CODES.
5. THE FIRE ALARM SYSTEM WIRING LAYOUT DESIGN WHICH INCLUDES THE GAUGE(S) OF WIRING INSTALLED.
6. THE SEQUENCE OF OPERATION IN EITHER INPUT/OUTPUT MATRIX OR NARRATIVE FORM.
7. EQUIPMENT TECHNICAL DATA SHEETS FOR ALL COMPONENTS SPECIFIED IN THE FIRE ALARM SYSTEM DESIGN.
8. MANUFACTURERS PUBLISHED INSTRUCTIONS, INCLUDING OPERATION AND MAINTENANCE INSTRUCTIONS.
9. BATTERY CALCULATIONS.
10. A SET OF NAC VOLTAGE DROP/LOAD CALCULATIONS.
11. SPEAKER WATTAGES AND DECIBEL RATINGS FOR BOTH HORN ALARM AND VOICE EVACUATION SYSTEM COMPONENTS (IF APPLICABLE).
12. THE CANDELA RATING SHOWN FOR DRAWINGS FOR EACH STROBE/VISUAL DEVICE AND EACH ILLUMINATED EMERGENCY EXIT SIGN FIRE ALARM SYSTEM MUST COMPLY WITH THE GEORGIA ACCESSIBILITY CODE (120-3-20), LIFE SAFETY CODE (NFPA 101) AND THE NATIONAL FIRE ALARM CODE (NFPA 72).

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)



KEY PLAN

ALPHA BLDG SET 08-27-2024

PHASE I

Seal: GEORGIA REGISTERED PROFESSIONAL ENGINEER JEFFREY H. McGEE

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Project:
R. L. COUSINS CENTER
NEWTON CO. BOC RFP #24-04
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COVINGTON, GEORGIA.

Issue Date:	Initial	Drwg. Revision Description:
06-27-24	TAW	FOR CONSTRUCTION

Project No.: 2023012
Drwg. Date: 06/27/24
Drwg. Revision:
Drawn By: TAW
Checked By: JHM
File Name:

Sheet Title: PARTIAL FLOOR PLAN - FIRE ALARM, SOUND & SECURITY

Sheet No.: E-5.4

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VOLTAGE 277 | 480 — PHASE 3 WIRE 4 — BUS AMPS 2000 — PANEL MSG - EX — MAIN AMPS 2000 — LOCATION ELEC. RM. — MOUNTING FLOOR — MAIN BREAKER

DESCRIPTION	VOLT AMPS A	B	C	BRKR AMP	P	CKT NO	BUS CONN	CKT NO	P	BRKR AMP	VOLT AMPS C	B	A	DESCRIPTION
E.H.1. CAFÉ				30	3	1	A	2	3	400				PANEL HF
						3	B	4						('911) (SUITE E)
						5	C	6						
E.H.2. CAFÉ				30	3	7	A	8	3	400				PANEL HD
						9	B	10						(TROY STATE) (SUITE D)
						11	C	12						
PANEL HA				200	3	13	A	14	3	400				PANEL HE
(RED CROSS) (SUITE G)						15	B	16						(STATE PATROL) (SUITE F)
						17	C	18						
PANEL HB				200	3	19	A	20	3	400				XFRMR #2
(DARE)						21	B	22						(CAFÉ) (SUITE H)
						23	C	24						
SPACE					3	25	A	26	3	400				XFRMR #1
						27	B	28						(ELEC.)
						29	C	30						
SPACE					3	31	A	32	3					SPACE
						33	B	34						
						35	C	36						
PANEL HC				400	3	37	A	38	3					SPACE
(B-WING) (SUITE I)						39	B	40						
						41	C	42						
TOTALS	0	0	0								0	0	0	

VOLT AMPS — BUS A 0 — BUS B 0 — BUS C 0 — TOTAL 0

REMARKS: EXISTING MAIN SWITCHGEAR SCHEDULE FOR REFERENCE

VOLTAGE 277 | 480 — PHASE 3 WIRE 4 — BUS AMPS 225 — PANEL HA -EX — MAIN AMPS 225 — LOCATION ELEC. — MOUNTING SURFACE — MAIN LUGS

DESCRIPTION	VOLT AMPS A	B	C	BRKR AMP	P	CKT NO	BUS CONN	CKT NO	P	BRKR AMP	VOLT AMPS C	B	A	DESCRIPTION
ELECTRIC HEATER HALL				20	1	1	A	2	1	20				ELECTRIC HTR FRONT
ELECTRIC HEATER HALL				20	1	3	B	4	1	20				HVAC CONTROL PANEL
PTHP UNIT 3				25	1	5	C	6	1	25				PTHP UNIT 1
PTHP UNIT 2				25	1	7	A	8	1	25				PTHP UNIT 2
PTHP UNIT 1				25	1	9	B	10	1	25				PTHP UNIT 3
PTHP UNIT 1				25	1	11	C	12	1	25				(UNNAMED)
PTHP UNIT 5				25	1	13	A	14	1	25				PTHP UNIT 2
PTHP UNIT 3				25	1	15	B	16	1	25				PTHP UNIT 6
(UNNAMED)				25	1	17	C	18	1	25				(UNNAMED)
(UNNAMED)				25	1	19	A	20	1					SPACE
SPACE					1	21	B	22	1					SPACE
SPACE					1	23	C	24	1					SPACE
SPACE					1	25	A	26	1					SPACE
SPACE					1	27	B	28	1					SPACE
SPACE					1	29	C	30	1					SPACE
SPACE					1	31	A	32	1					SPACE
SPACE					1	33	B	34	1					SPACE
SPACE					1	35	C	36	1					SPACE
SPACE					1	37	A	38	1					SPACE
SPACE					1	39	B	40	1					SPACE
SPACE					1	41	C	42	1					SPACE
TOTALS	0	0	0								0	0	0	

VOLT AMPS — BUS A 0 — BUS B 0 — BUS C 0 — TOTAL 0

REMARKS: EXISTING PANEL TO BE MODIFIED
SEE HA-NEW FOR MODIFICATIONS

VOLTAGE 120 | 208 — PHASE 3 WIRE 4 — BUS AMPS 225 — PANEL LA - EX — MAIN AMPS 225 — LOCATION JUVENILE JUST. — MOUNTING RECESSED — MAIN LUGS

DESCRIPTION	VOLT AMPS A	B	C	BRKR AMP	P	CKT NO	BUS CONN	CKT NO	P	BRKR AMP	VOLT AMPS C	B	A	DESCRIPTION
LEFT SIDE BACK				20	1	1	A	2	1	20				RIGHT SIDE BACK
HALL RECEPT.				20	1	3	B	4	1	20				FRONT OFFICE
BATH ROOM				20	1	5	C	6	1	20				RIGHT SIDE FRONT
LEFT SIDE FRONT				20	1	7	A	8	1	20				HALL EMER. LIGHTS
SPACE					1	9	B	10	1					SPACE
SPACE					1	11	C	12	1					SPACE
PACKAGE UNIT				60	3	13	A	14	1	20				BACK OFFICES
						15	B	16	1					SPACE
						17	C	18	1					SPACE
SPACE					1	19	A	20	1					SPACE
SPACE					1	21	B	22	1					SPACE
SPACE					1	23	C	24	1					SPACE
SPACE					1	25	A	26	1					SPACE
SPACE					1	27	B	28	1					SPACE
SPACE					1	29	C	30	1					SPACE
SPACE					1	31	A	32	1					SPACE
SPACE					1	33	B	34	1					SPACE
SPACE					1	35	C	36	1					SPACE
SPACE					1	37	A	38	1					SPACE
SPACE					1	39	B	40	1					SPACE
SPACE					1	41	C	42	1					SPACE
TOTALS	0	0	0								0	0	0	

VOLT AMPS — BUS A 0 — BUS B 0 — BUS C 0 — TOTAL 0

REMARKS: EXISTING PANEL TO BE MODIFIED
SEE LA-NEW FOR MODIFICATIONS

VOLTAGE 120 | 208 — PHASE 3 WIRE 4 — BUS AMPS 800 — PANEL SP - EX — MAIN AMPS 800 — LOCATION ELEC. B03 — MOUNTING SURFACE — MAIN LUGS

DESCRIPTION	VOLT AMPS A	B	C	BRKR AMP	P	CKT NO	BUS CONN	CKT NO	P	BRKR AMP	VOLT AMPS C	B	A	DESCRIPTION
E.H.1. CAFÉ				60	3	1	A	2	3	60				ROOF TOP SOUTH
						3	B	4						
						5	C	6						
SPACE					1	7	A	8	3	100				PANEL LD
SPACE					1	9	B	10						
3" DINING RM COND.				275	3	11	C	12						
						13	A	14	3	200				3" PANEL LK
						15	B	16						
4" PNL PK1PK2				450	3	17	C	18						
						19	A	20						
						21	B	22						
						23	C	24						
						25	A	26						
						27	B	28						
						29	C	30						
						31	A	32						
						33	B	34						
						35	C	36						
						37	A	38						
						39	B	40						
						41	C	42						
TOTALS	0	0	0								0	0	0	

VOLT AMPS — BUS A 0 — BUS B 0 — BUS C 0 — TOTAL 0

REMARKS: EXISTING PANEL TO BE MODIFIED
SEE SP-NEW FOR MODIFICATIONS
3" EXISTING BREAKER TO BECOME A SPARE TO BE REUSED
4" EXISTING BREAKER TO BE REMOVED AND REPLACED WITH NEW BREAKER.

VOLTAGE 120 | 208 — PHASE 3 WIRE 4 — BUS AMPS 200 — PANEL LD - EX — MAIN AMPS 200 — LOCATION CASA HALL — MOUNTING RECESSED — MAIN LUGS

DESCRIPTION	VOLT AMPS A	B	C	BRKR AMP	P	CKT NO	BUS CONN	CKT NO	P	BRKR AMP	VOLT AMPS C	B	A	DESCRIPTION
LIGHTS LIBRARY				20	1	1	A	2	1	20				LIGHTS LIBRARY
LIGHTS LIBRARY				20	1	3	B	4	1	20				LIGHTS LIBRARY
LIGHTS OFFICE				20	1	5	C	6	1	20				LIGHTS LIBRARY
LIGHTS LIBRARY				20	1	7	A	8	1	20				LIGHTS CONFERENCE
LIGHTS ROOM				20	1	9	B	10	1	20				LIGHTS ROOM & CONF.
LIGHTS RAMP & ROOM				20	1	11	C	12	1	20				RECEPT, OFFICE & MECH
RECEPT. CONFERENCE				20	1	13	A	14	1	20				RECEPT. CONFERENCE
RECEPT. LIBRARY				20	1	15	B	16	1	20				RECEPT, RM 1 & 2
				20	1	17	C	18	1	20				RECEPT, WORK ROOM
RECEPT. CONFERENCE				20	1	19	A	20	1	20				RECEPT. LIBRARY
EXITS & BATTERY				20	1	21	B	22	1	20				SWITCH S.C.
				20	1	23	C	24	1	20				REC. COMP
				20	1	25	A	26	1	20				
				50	3	27	B	28	3	50				
						29	C	30						
						31	A	32						
				20	1	33	B	34	1	20				
PANEL LS			70	70	3	35	C	36	1					SPACE
						37	A	38	1					SPACE
						39	B	40	1					SPACE
SPACE					1	41	C	42	1					SPACE
TOTALS	0	0	70								0	0	0	

VOLT AMPS — BUS A 0 — BUS B 0 — BUS C 70 — TOTAL 70

REMARKS: EXISTING PANEL TO BE MODIFIED
SEE LD-NEW FOR MODIFICATIONS

VOLTAGE 120 | 208 — PHASE 3 WIRE 4 — BUS AMPS 225 — PANEL LS - EX — MAIN AMPS 225 — LOCATION CAFÉ STAGE — MOUNTING SURFACE — MAIN LUGS

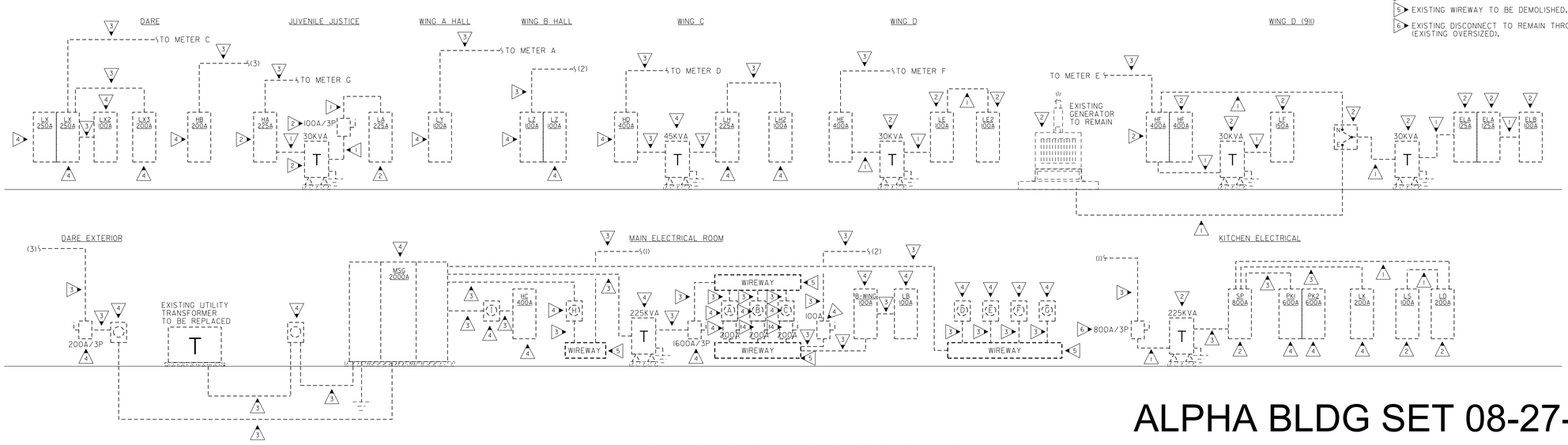
DESCRIPTION	VOLT AMPS A	B	C	BRKR AMP	P	CKT NO	BUS CONN	CKT NO	P	BRKR AMP	VOLT AMPS C	B	A	DESCRIPTION
S3				20	1	1	A	2	1	20				S2
S1				20	1	3	B	4	1	20				SL1
SL2				20	1	5	C	6	1	20				SL3
				20	1	7	A	8	1	20				
				20	1	9	B	10	1	20				
				20	2	11	C	12	1	20				
						13	A	14	1					SPACE
SPACE					1	15	B	16	1					SPACE
SPACE					1	17	C	18	1					SPACE
SPACE					1	19	A	20	1					SPACE
TOTALS	0	0	0								0	0	0	

VOLT AMPS — BUS A 0 — BUS B 0 — BUS C 0 — TOTAL 0

REMARKS: EXISTING PANEL TO BE MODIFIED
SEE LS-NEW FOR MODIFICATIONS

KEYED NOTES: (THIS SHEET ONLY)

1. EXISTING CIRCUITRY TO REMAIN THROUGHOUT BUILDING RENOVATION.
2. EXISTING ELECTRICAL EQUIPMENT TO REMAIN THROUGHOUT BUILDING RENOVATION.
3. EXISTING CIRCUITRY TO BE DEMOLISHED.
4. EXISTING ELECTRICAL EQUIPMENT TO BE DEMOLISHED.
5. EXISTING WIREWAY TO BE DEMOLISHED.
6. EXISTING DISCONNECT TO REMAIN THROUGHOUT BUILDING RENOVATION (EXISTING OVERSIZED).



EXISTING POWER RISER DIAGRAM

1 / E-6.1

NOT TO SCALE

ALPHA BLDG SET 08-27-2024

PHASE I

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Project: R. L. COUSINS CENTER
NEWTON CO. BOC RFP #24-04
9134 GEIGER STREET, N.W.
COVINGTON, GEORGIA.

Issue Date:	Initial:	Drwg. Revision Description:
06-27-24	TAW	FOR CONSTRUCTION

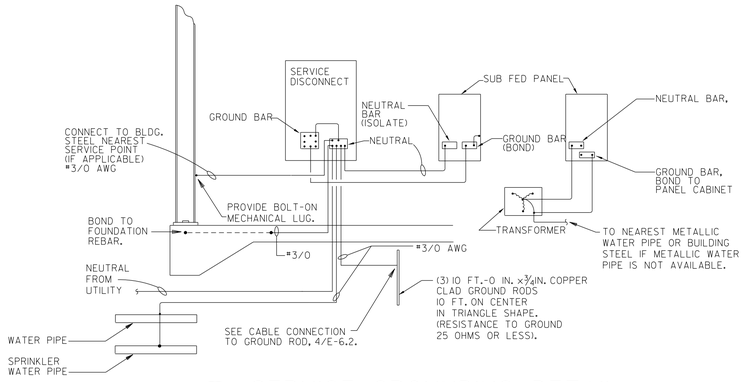
Project No.: 2023012
Drwg. Date: 06/27/24
Drwg. Revision:
Drawn By: TAW
Checked By: JHM
File Name:

Sheet Title: *EXISTING POWER RISER DIAGRAM AND SCHEDULES*

Sheet No.: E-6.1

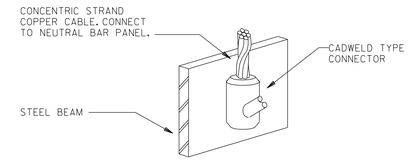
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ALPHA BLDG SET 08-27-2024



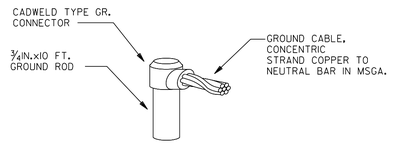
2 / E-6.2 SERVICE GROUNDING DETAIL

NOT TO SCALE



3 / E-6.2 CABLE CONNECTION TO STEEL BEAM

NOT TO SCALE

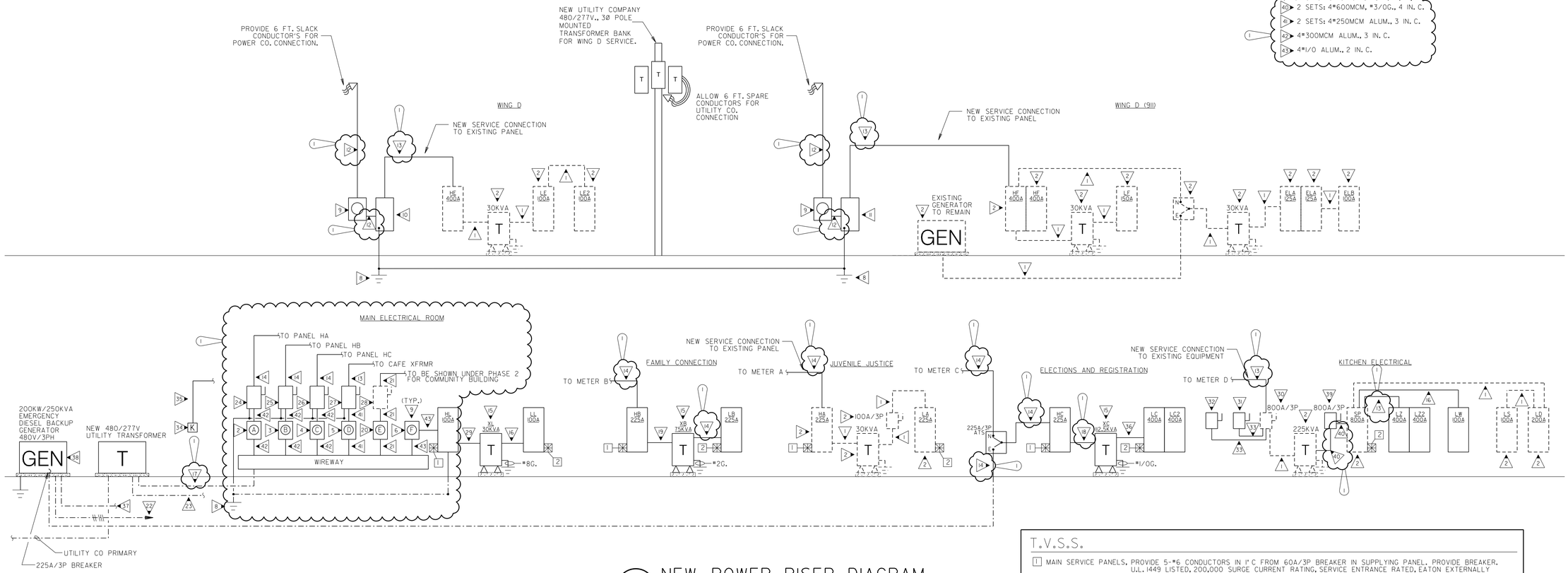


4 / E-6.2 CABLE CONNECTION TO GROUND ROD

NOT TO SCALE

KEYED NOTES: (THIS SHEET ONLY)

1. EXISTING CIRCUITRY TO REMAIN THROUGHOUT BUILDING RENOVATION.
2. EXISTING ELECTRICAL EQUIPMENT TO REMAIN THROUGHOUT BUILDING RENOVATION.
3. PROVIDE LABEL "JUVENILE JUSTICE SERVICE".
4. PROVIDE LABEL "FAMILY CONNECTION SERVICE".
5. PROVIDE LABEL "BOARD OF ELECTIONS AND REGISTRATION SERVICE".
6. PROVIDE LABEL "CAFETERIA AND KITCHEN SERVICE".
7. PROVIDE LABEL "SITE LIGHTING SERVICE".
8. SEE SERVICE GROUNDING DETAIL, 2/E-6.2.
9. METER BASE SUPPLIED BY POWER COMPANY AND INSTALLED BY CONTRACTOR. CONTRACTOR TO PAY ALL COSTS FOR METER BASE AND SERVICE SHOWN.
10. PROVIDE 400A/3P/3R S.E. RATED ENCLOSED CIRCUIT BREAKER, SHUNT TRIP TYPE. 28.7 KAIC MINIMUM PROVIDE LABEL "DRIVERS LICENSE DISCONNECT".
11. PROVIDE 400A/3P/3R S.E. RATED ENCLOSED CIRCUIT BREAKER, SHUNT TRIP TYPE. 28.7 KAIC MINIMUM PROVIDE LABEL "911 DISCONNECT".
12. 2 SETS: 4#250MCM ALUM., 3 IN. C.
13. 4#600MCM, #1/0G., 4 IN. C.
14. 4#4/0, #2G., 2 1/2 IN. C.
15. SEE DRY TYPE TRANSFORMER DETAILS, 5/E-7.1 & 8/E-7.1.
16. 4#2, #6G., 1 1/2 IN. C.
17. 5 SETS: 4#600MCM ALUM., 4 IN. C.
18. 3#2/0, #4G., 2 IN. C.
19. 3#1, #6G., 1 1/4 IN. C.
20. PROVIDE PROVISIONS FOR A FUTURE 277/480V METER FOR THE PHASE 2 COMMUNITY BUILDING.
21. PROVIDE 2 SETS: 4 IN. C. FOR FUTURE COMMUNITY BUILDING. SEE KEYED NOTE 9 ON SHEET E-1.1.
22. CIRCUITS TO PANEL LC2 FOR GENERATOR BATTERY CHARGING AND ENGINE HEATER. VERIFY EXACT REQUIRED CIRCUIT SIZES WITH GENERATOR PROVIDER.
23. PROVIDE (3) SPARE 4 IN. C. FROM TRANSFORMER TO NEW ELECTRICAL ROOM LOCATION.
24. PROVIDE LABEL "JUVENILE JUSTICE DISCONNECT (PANEL HA)." PROVIDE 225A/3P S.E. RATED ENCLOSED CIRCUIT BREAKER, SHUNT TRIP TYPE, 32.9 KAIC MINIMUM.
25. PROVIDE LABEL "FAMILY CONNECTION DISCONNECT (PANEL HB)." PROVIDE 225A/3P S.E. RATED ENCLOSED CIRCUIT BREAKER, SHUNT TRIP TYPE, 32.9 KAIC MINIMUM.
26. PROVIDE LABEL "BOARD OF ELECTIONS AND REGISTRATION DISCONNECT (PANEL HC)." PROVIDE 225A/3P S.E. RATED ENCLOSED CIRCUIT BREAKER, SHUNT TRIP TYPE, 32.9 KAIC MINIMUM.
27. PROVIDE LABEL "CAFETERIA AND KITCHEN DISCONNECT (CAFE XFRMR)." PROVIDE 800A/3P S.E. RATED ENCLOSED CIRCUIT BREAKER, SHUNT TRIP TYPE, 32.9 KAIC MINIMUM.
28. PROVIDE ROOM FOR A FUTURE 600A/3P S.E. RATED ENCLOSED CIRCUIT BREAKER, SHUNT TRIP TYPE. ENCLOSED CIRCUIT BREAKER TO BE SIZED AND PROVIDED AT PHASE 2 OF CONSTRUCTION.
29. 3#8, #10G., 3/4 IN. C.
30. EXISTING OVERSIZED DISCONNECT TO REMAIN THROUGHOUT BUILDING RENOVATION. PROVIDE LUGS TO FEED ADDITIONAL E.C.B.S.
31. PROVIDE LABEL "E.H.I. CAFE". PROVIDE 30A/3P ENCLOSED CIRCUIT BREAKER.
32. PROVIDE LABEL "E.H.2. CAFE". PROVIDE 30A/3P ENCLOSED CIRCUIT BREAKER.
33. 4#10, #10G., 3/4 IN. C.
34. SURFACE MOUNTED NEMA 3R KNOX REMOTE POWER BOX PRODUCT NUMBER "MKT-KBSPEC-0169". CONNECT TO 3 PHASE ENCLOSED CIRCUIT BREAKERS WITH SHUNT TRIPS TO REMOTELY DISCONNECT POWER. COORDINATE FINAL LOCATION WITH OWNER AND AUTHORITY HAVING JURISDICTION.
35. 3#12, 1/2 IN. C. FOR SHUNT TRIP CONTROL CONDUCTORS. INSTALL PER MANUFACTURER REQUIREMENTS FOR SHUNT TRIP BREAKER AND KNOX BOX.
36. 4#600MCM, #1/0G., 4 IN. C.
37. 2 IN. C. TO GENERATOR STATUS PANEL. ARCHITECT/OWNER TO LOCATE PANEL IN CONSTANTLY OCCUPIED AREA.
38. SEE GENERATOR PAD DETAIL, 4/E-7.2.
39. PROVIDE 800A, 208/120V, 4W, ENCLOSED CIRCUIT BREAKER. 39.0 KAIC MINIMUM.
40. 2 SETS: 4#600MCM, #3/0G., 4 IN. C.
41. 2 SETS: 4#250MCM ALUM., 3 IN. C.
42. 4#300MCM ALUM., 3 IN. C.
43. 4#1/0 ALUM., 2 IN. C.



1 / E-6.2 NEW POWER RISER DIAGRAM

NOT TO SCALE

T.V.S.S.

1. MAIN SERVICE PANELS. PROVIDE 5-#6 CONDUCTORS IN 1" C FROM 60A/3P BREAKER IN SUPPLYING PANEL. PROVIDE BREAKER. U.L. 1449 LISTED, 200,000 SURGE CURRENT RATING, SERVICE ENTRANCE RATED, EATON EXTERNALLY MOUNTED "SPD" SERIES OR EQUAL.
2. DISTRIBUTION PANELS. PROVIDE 5-#6 CONDUCTORS IN 1" C FROM 60A/3P BREAKER IN SUPPLYING PANEL. PROVIDE BREAKER. U.L. 1449 LISTED, 100,000 SURGE CURRENT RATING, EATON EXTERNALLY MOUNTED "SPD" SERIES OR EQUAL.

PHASE 1

GEORGIA REGISTERED PROFESSIONAL ENGINEER JEFFREY H. McGEE
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Project:
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8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA.

Issue Date:	Initial:	Drwg. Revision Description:
06-27-24	TAW	FOR CONSTRUCTION
07-03-24	TAW	VE REVISION

Project No.: 2023012
Drwg. Date: 06/27/24
Drwg. Revision:
Drawn By: TAW
Checked By: JHM
File Name:

Sheet Title: *NEW POWER RISER DIAGRAM AND DETAILS*

Sheet No.: E-6.2

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VOLTAGE 277 480 | PHASE 3 WIRE 4 | BUS AMPS 100 | PANEL HL | MAIN AMPS 100 | LOCATION MAIN | MOUNTING SURFACE | MAIN ELECTRICAL | MAIN CIRCUIT BREAKER

DESCRIPTION	VOLT AMPS A	VOLT AMPS B	VOLT AMPS C	BRKR AMP	P	CKT NO	BUS CONN	CKT NO	BRKR P	BRKR AMP	VOLT AMPS C	VOLT AMPS B	VOLT AMPS A	DESCRIPTION
ELEC. LIGHTS	150			20	1	1	A	2	1	20				SPARE
WALL PACKS		680		20	1	3	B	4	1	20		350		POLE LIGHTS
WALL PACKS			730	20	1	5	C	6	1	20	330			POST TOPS
SPARE				20	1	7	A	8	1	20			400	CANOPY LIGHTS
SPARE				20	1	9	B	10	1	20				SPARE
POLE LIGHTS			1000	20	1	11	C	12	1	20				SPARE
POLE LIGHTS	1000			20	1	13	A	14	3	50			500	XFRMR XL
POLE LIGHTS		250		20	1	15	B	16				400		
SPARE				20	1	17	C	18			0			
SPARE				20	1	19	A	20	1					SPACE
SPARE				20	1	21	B	22	1					SPACE
SPARE				20	1	23	C	24	1					SPACE
TVSS				60	3	25	A	26	1					SPACE
						27	B	28	1					SPACE
						29	C	30	1					SPACE
TOTALS	1150	930	1730								330	750	900	

VOLT AMPS: BUS A 2050 | BUS B 1680 | BUS C 2060 | TOTAL 5790

REMARKS: PANEL AND BREAKERS RATED FOR MINIMUM 31.7 KAIC

VOLTAGE 120 208 | PHASE 3 WIRE 4 | BUS AMPS 100 | PANEL LL | MAIN AMPS 100 | LOCATION MAIN | MOUNTING SURFACE | MAIN ELECTRICAL | MAIN CIRCUIT BREAKER

DESCRIPTION	VOLT AMPS A	VOLT AMPS B	VOLT AMPS C	BRKR AMP	P	CKT NO	BUS CONN	CKT NO	BRKR P	BRKR AMP	VOLT AMPS C	VOLT AMPS B	VOLT AMPS A	DESCRIPTION
LIGHT CONTROL	500			20	1	1	A	2	1	20				SPARE
RECEPT.		400		20	1	3	B	4	1	20				SPARE
SPARE				20	1	5	C	6	1	20				SPARE
SPARE				20	1	7	A	8	1	20				SPARE
SPARE				20	1	9	B	10	1					SPACE
SPACE					1	11	C	12	1					SPACE
SPACE					1	13	A	14	3	60				TVSS
SPACE					1	15	B	16						
SPACE					1	17	C	18						
TOTALS	500	400	0								0	0	0	

VOLT AMPS: BUS A 500 | BUS B 400 | BUS C 0 | TOTAL 900

REMARKS: PANEL AND BREAKERS RATED FOR MINIMUM 10.0 KAIC
* PROVIDE GFCI BREAKER

VOLTAGE 277 480 | PHASE 3 WIRE 4 | BUS AMPS 225 | PANEL HA -NEW | MAIN AMPS 225 | LOCATION MAIN | MOUNTING LUGS | ELEC. SURFACE

DESCRIPTION	VOLT AMPS A	VOLT AMPS B	VOLT AMPS C	BRKR AMP	P	CKT NO	BUS CONN	CKT NO	BRKR P	BRKR AMP	VOLT AMPS C	VOLT AMPS B	VOLT AMPS A	DESCRIPTION
ELECTRIC HEATER HALL				20	1	1	A	2	1	20				ELECTRIC HTR FRONT
ELECTRIC HEATER HALL				20	1	3	B	4	1	20				HVAC CONTROL PANEL
PTHP UNIT 3				25	1	5	C	6	1	25				PTHP UNIT 1
PTHP UNIT 2				25	1	7	A	8	1	25				PTHP UNIT 2
PTHP UNIT 1				25	1	9	B	10	1	25				PTHP UNIT 3
PTHP UNIT 1				25	1	11	C	12	1	25				
PTHP UNIT 5				25	1	13	A	14	1	25				PTHP UNIT 2
PTHP UNIT 3				25	1	15	B	16	1	25				PTHP UNIT 6
				25	1	17	C	18	1	25				
				25	1	19	A	20	1	20			4150	1* WH-A12
1* SPARE				20	1	21	B	22	1	20		4150		1* WH-A13
1* SPARE				20	1	23	C	24	1	20	4150			1* WH-A14
SPACE					1	25	A	26	1	50			11080	1* WH-A15
SPACE					1	27	B	28	1					SPACE
SPACE					1	29	C	30	1					SPACE
SPACE					1	31	A	32	1					SPACE
SPACE					1	33	B	34	1					SPACE
SPACE					1	35	C	36	1					SPACE
1* TVSS				60	3	37	A	38	1					SPACE
						39	B	40	1					SPACE
						41	C	42	1					SPACE
TOTALS	0	0	0								4150	4150	15230	

VOLT AMPS: BUS A 15230 | BUS B 4150 | BUS C 4150 | TOTAL 23530

REMARKS: EXISTING PANEL WITH MODIFICATIONS
1* PROVIDE NEW BREAKER IN EXISTING PANEL. MATCH
EXISTING BREAKER TYPE AND AIC RATING.

VOLTAGE 120 208 | PHASE 3 WIRE 4 | BUS AMPS 225 | PANEL LA - NEW | MAIN AMPS 225 | LOCATION MAIN | MOUNTING RECESSED | JUVENILE JUST. | LUGS

DESCRIPTION	VOLT AMPS A	VOLT AMPS B	VOLT AMPS C	BRKR AMP	P	CKT NO	BUS CONN	CKT NO	BRKR P	BRKR AMP	VOLT AMPS C	VOLT AMPS B	VOLT AMPS A	DESCRIPTION
LEFT SIDE BACK				20	1	1	A	2	1	20				RIGHT SIDE BACK
HALL RECEPT.				20	1	3	B	4	1	20				FRONT OFFICE
BATH ROOM				20	1	5	C	6	1	20				RIGHT SIDE FRONT
LEFT SIDE FRONT				20	1	7	A	8	1	20				HALL EMER. LIGHTS
1* EF-3		128		20	1	9	B	10	1	20				1* SPARE
SPACE					1	11	C	12	1	20				1* SPARE
PACKAGE UNIT				60	3	13	A	14	1	20				BACK OFFICES
						15	B	16	1					SPACE
						17	C	18	1					SPACE
SPACE					1	19	A	20	1					SPACE
SPACE					1	21	B	22	1					SPACE
SPACE					1	23	C	24	1					SPACE
SPACE					1	25	A	26	1					SPACE
SPACE					1	27	B	28	1					SPACE
SPACE					1	29	C	30	1					SPACE
SPACE					1	31	A	32	1					SPACE
SPACE					1	33	B	34	1					SPACE
SPACE					1	35	C	36	1					SPACE
SPACE					1	37	A	38	1					SPACE
SPACE					1	39	B	40	1					SPACE
SPACE					1	41	C	42	1					SPACE
TOTALS	0	128	0								0	0	0	

VOLT AMPS: BUS A 0 | BUS B 128 | BUS C 0 | TOTAL 128

REMARKS: EXISTING PANEL WITH MODIFICATIONS
1* PROVIDE NEW BREAKER IN EXISTING PANEL. MATCH
EXISTING BREAKER TYPE AND AIC RATING.

VOLTAGE 277 480 | PHASE 3 WIRE 4 | BUS AMPS 225 | PANEL HB | MAIN AMPS 225 | LOCATION MAIN | MOUNTING SURFACE | ELEC. A06 | MAIN CIRCUIT BREAKER

DESCRIPTION	VOLT AMPS A	VOLT AMPS B	VOLT AMPS C	BRKR AMP	P	CKT NO	BUS CONN	CKT NO	BRKR P	BRKR AMP	VOLT AMPS C	VOLT AMPS B	VOLT AMPS A	DESCRIPTION
** CORRIDOR LIGHTS	600			20	1	1	A	2	3	70			19268	XFRMR XB
OFFICE LIGHTS		1300		20	1	3	B	4				17364		
SPARE				20	1	5	C	6			18414			
SPARE				20	1	7	A	8	1	20			4150	WH-A07
SPARE				20	1	9	B	10	1	20		4150		WH-A08
SPARE				20	1	11	C	12	1	50	11080			WH-A09
SPARE				20	1	13	A	14	3					SPACE
SPARE				20	1	15	B	16						
SPACE					1	17	C	18						
SPACE					1	19	A	20	3					SPACE
SPACE					1	21	B	22						
SPACE					1	23	C	24						
SPACE					1	25	A	26	2					SPACE
SPACE					1	27	B	28						
SPACE					1	29	C	30	2					SPACE
SPACE					1	31	A	32						
SPACE					1	33	B	34	2					SPACE
SPACE					1	35	C	36						
TVSS				60	3	37	A	38	1					SPACE
						39	B	40	1					SPACE
						41	C	42	1					SPACE
TOTALS	600	1300	0								29494	21514	23418	

VOLT AMPS: BUS A 24018 | BUS B 22814 | BUS C 29494 | TOTAL 76326

REMARKS: PANEL AND BREAKERS RATED FOR MINIMUM 23.1 KAIC
** PROVIDE HASP LOCK FOR BREAKER

VOLTAGE 120 208 | PHASE 3 WIRE 4 | BUS AMPS 225 | PANEL LB | MAIN AMPS 225 | LOCATION MAIN | MOUNTING SURFACE | ELEC. A06 | MAIN CIRCUIT BREAKER

DESCRIPTION	VOLT AMPS A	VOLT AMPS B	VOLT AMPS C	BRKR AMP	P	CKT NO	BUS CONN	CKT NO	BRKR P	BRKR AMP	VOLT AMPS C	VOLT AMPS B	VOLT AMPS A	DESCRIPTION
CORRIDOR RECEPT.	1000			20	1	1	A	2	2	40			2112	HP-1
CORRIDOR RECEPT.		400		20	1	3	B	4				2112		
* EWC			1500	20	1	5	C	6	2	40	2112			HP-2
* EWC	1500			20	1	7	A	8					2112	
ELEC. RECEPT.		200		20	1	9	B	10	2	25		1186		HP-3
MECH. RECEPT.			400	20	1	11	C	12			1186			
BATHROOM RECEPT.	400			20	1	13	A	14	3	35			3072	AH-1
BREAK APPLIANCE		1500		20	1	15	B	16				3072		
BREAK APPLIANCE			1500	20	1	17	C	18			3072			
* REFRIGERATOR	1500			20	1	19	A	20	3	35			3072	AH-2
BREAK RECEPT.		1000		20	1	21	B	22				3072		
CONFERENCE RECEPT.			1000	20	1	23	C	24			3072			
OFFICE RECEPT.	1000			20	1	25	A	26	3	35			3072	AH-3
OFFICE RECEPT.		1000		20	1	27	B	28				3072		
OFFICE RECEPT.			1000	20	1	29	C	30			3072			
MECH CLOSET REC.	200			20	1	31	A	32	1	20			128	EF-12
*** FACP		500		20	1	33	B	34	1	20				SPARE
TB			500	20	1	35	C	36	1	20				SPARE
BATHROOM LIGHTS	100			20	1	37	A	38	1	20				SPARE
MURAL TRACKS		250		20	1	39	B	40	1	20				SPARE
SPARE				20	1	41	C	42	1					SPACE
TVSS				60	3	43	A	44	1					SPACE
						45	B	46	1					SPACE
						47	C	48	1					SPACE
TOTALS	5700	4850	5900								12514	12514	13568	

VOLT AMPS: BUS A 19268 | BUS B 17364 | BUS C 18414 | TOTAL 55046

REMARKS: PANEL AND BREAKERS RATED FOR MINIMUM 12.7 KAIC
* PROVIDE GFCI BREAKER
*** LABEL FIRE ALARM CIRCUIT PER 2020 NEC
REQUIREMENTS, PROVIDE HASP LOCK FOR BREAKER.

VOLTAGE 277 480 | PHASE 3 WIRE 4 | BUS AMPS 225 | PANEL HC | MAIN AMPS 225 | LOCATION MAIN | MOUNTING SURFACE | ELEC. A36 | MAIN CIRCUIT BREAKER

DESCRIPTION	VOLT AMPS A	VOLT AMPS B	VOLT AMPS C	BRKR AMP	P	CKT NO	BUS CONN	CKT NO	BRKR P	BRKR AMP	VOLT AMPS C	VOLT AMPS B	VOLT AMPS A	DESCRIPTION
OFFICE LIGHTS	1900			20	1	1	A	2	3	175			39674	XFRMR XC
TRAINING LIGHTS		1300		20	1	3	B	4				37646		
LOBBY / OFFICE LTS.			800	20	1	5	C	6			37376			
STORAGE LIGHTS	750			20	1	7	A	8	1	50			11080	WH-A19
SPARE				20	1	9	B	10	1	40		8310		WH-A20
SPARE				20	1	11	C	12	1	40	8310			WH-A21
SPARE				20	1	13	A	14	3					SPACE
SPARE				20	1	15	B	16						
SPARE				20	1	17	C	18						
SPARE				20	1	19	A	20	3					SPACE
SPACE					1	21	B	22						
SPACE					1	23	C	24						
SPACE					1	25	A	26	2					SPACE
SPACE					1	27	B	28						
SPACE					1	29	C	30	2					SPACE
SPACE					1	31	A	32						
SPACE					1	33	B	34	2					SPACE
SPACE					1	35	C	36						
TVSS				60	3	37	A	38	1					SPACE
						39	B	40	1					SPACE
						41	C	42	1					SPACE
TOTALS	2650	1300	800								45686	45956	50754	

VOLT AMPS: BUS A 53404 | BUS B 47256 | BUS C 46486 | TOTAL 147146

REMARKS: PANEL AND BREAKERS RATED FOR MINIMUM 23.1 KAIC

VOLTAGE 120 208 | PHASE 3 WIRE 4 | BUS AMPS 400 | PANEL LC | MAIN AMPS 400 | LOCATION MAIN | MOUNTING SURFACE | ELEC. A36 | MAIN CIRCUIT BREAKER

DESCRIPTION	VOLT AMPS A	VOLT AMPS B	VOLT AMPS C	BRKR AMP	P	CKT NO	BUS CONN	CKT NO	BRKR P	BRKR AMP	VOLT AMPS C	VOLT AMPS B	VOLT AMPS A	DESCRIPTION
OFFICE RECEPT.	1000			20	1	1	A	2	1	20			600	CORRIDOR RECEPT.
OFFICE RECEPT.		1000		20	1	3	B	4	1	20		600		LOBBY RECEPT.,
CUBICLE RECEPT.			600	20	1	5	C	6	1	20	800			RECEPTION REC.
CUBICLE RECEPT.	600			20	1	7	A	8	1	20			600	RECEPTION REC.
CUBICLE RECEPT.		600		20	1	9	B	10	1	20		400		VOTING RECEPT.
CUBICLE RECEPT.			600	20	1	11	C	12	1	20	1500			* REFRIGERATOR
CUBICLE RECEPT.	600			20	1	13	A	14	1	20			1500	APPLIANCE REC.
OPEN OFFICE REC.		800		20	1	15	B	16	1	20		1500		APPLIANCE REC.
OPEN OFFICE REC.			800	20	1	17	C	18	1	20	1500			APPLIANCE REC.
OFFICE RECEPT.	1000			20	1	19	A	20	1	20			1500	APPLIANCE REC.
FILE RECEPT.		600		20	1	21	B	22	1	20		800		TRAINING RECEPT.
PRINT RECEPT.			1000	20	1	23	C	24	1	20	1000			TRAINING RECEPT.
PRINT RECEPT.	1000			20	1	25	A	26	1	20			400	LOW VOLTAGE REC.
PRINT RECEPT.		1000		20	1	27	B	28	1	20		400		LOW VOLTAGE REC.
PRINT RECEPT.			400	20	1	29	C	30	1	20	400			SERVER RECEPT.
BATHROOM RECEPT.	600			20	1	31	A	32	1	20			400	SERVER RECEPT.
* EWC		1500		20	1	33	B	34	1	20		200		ELEC. RECEPT.
* EWC			1500	20	1	35	C	36	1	20	400			STORAGE RECEPT.
TVSS				60	3	37	A	38	1	20			600	STORAGE RECEPT.
						39	B	40	1	20		800		STORAGE RECEPT.
						41	C	42	1	20	800			STORAGE RECEPT.
TOTALS	4800	5500	4900								6400	4700	5600	

VOLT AMPS: BUS A 10400 | BUS B 10200 | BUS C 11300 | TOTAL 31900

REMARKS: PANEL AND BREAKERS RATED FOR MINIMUM 19.1 KAIC
SECTION 1 OF 2
FEED THRU LUGS
* PROVIDE GFCI BREAKER

VOLTAGE 120 208 | PHASE 3 WIRE 4 | BUS AMPS 400 | PANEL LC2 | MAIN AMPS 400 | LOCATION MAIN | MOUNTING SURFACE | ELEC. A36 | LUGS

DESCRIPTION	VOLT AMPS A	VOLT AMPS B	VOLT AMPS C	BRKR AMP	P	CKT NO	BUS CONN	CKT NO	BRKR P	BRKR AMP	VOLT AMPS C	VOLT AMPS B	VOLT AMPS A	DESCRIPTION
EF-7	128			20	1	1	A	2	2	40			2112	HP-4
EF-8		128		20	1	3	B	4				2112		
EF-9			128	20	1	5	C	6	2	60	2954			HP-5
HPU / ACU-1	1082			20	2	7	A	8					2954	
		1082				9	B	10	2	50		2808		HP-6
HPU / ACU-2			1082	20	2	11	C	12			2808			
	1082					13	A	14	2	40			2112	HP-7
LOW VOLTAGE REC.		400		20	1	15	B	16				2112		
EXTERIOR RECEPT.			800	20	1	17	C	18	3	35	3072			AH-4
CEILING RECEPT.	1500			20	1	19	A	20					3072	
CEILING RECEPT.		1500		20	1	21	B	22				3072		
CEILING RECEPT.			1500	20	1	23	C	24	3	50	4580			AH-5
CEILING RECEPT.	1500			20	1	25	A	26					4580	
HEAT TRACING		500		20	1	27	B	28				4580		
GEN BATT. CHARGER			1500	20	1	29	C	30	3	50	4580			AH-6
GEN HEATER	1500			20	2	31	A	32					4580	
		1500				33	B	34				4580		
SPARE				20	1	35	C	36	3	35	3072			AH-7
SPARE				20	1	37	A	38					3072	
SPARE				20	1	39	B	40				3072		
SPARE				20	1	41	C	42	1					SPACE
TOTALS	6792	5110	5010								21066	22336	22482	

VOLT AMPS: BUS A 29274 | BUS B 27446 | BUS C 26076 | TOTAL 82796

REMARKS: PANEL AND BREAKERS RATED FOR MINIMUM 19.1 KAIC
SECTION 2 OF 2

ALPHA BLDG SET 08-27-2024

PHASE I

GEORGIA REGISTERED PROFESSIONAL ENGINEER JEFFREY H. McGEE
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NEWTON CO. BOC RFP #24-04
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Issue Date: Initial: Drwg. Revision Description:
06-27-24 TAW FOR CONSTRUCTION

Project No.: 2023012
Drwg. Date: 06/27/24
Drwg. Revision:
Drawn By: TAW
Checked By: JHM
File Name:

Sheet Title:
PANEL SCHEDULES

Sheet No.:
E-6.3

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VOLTAGE	120	208												LOCATION	ELEC. B03				
PHASE 3 WIRE 4														MOUNTING	SURFACE				
BUS AMPS	800			PANEL		SP - NEW								MAIN	LUGS				
				MAIN AMPS		800													

DESCRIPTION	VOLT AMPS			BRKR		CKT	BUS	CKT	BRKR		VOLT AMPS			DESCRIPTION
	A	B	C	AMP	P	NO	CONN	NO	P	AMP	C	B	A	
E.H.1. CAFÉ				60	3	1	A	2	3	60				ROOF TOP SOUTH
						3	B	4						
						5	C	6						
SPACE					1	7	A	8	3	100			800	PANEL LD
SPACE					1	9	B	10				1400		
2" DINING RM COND.			13839	275	3	11	C	12			1200			
	13839					13	A	14	3	200				SPARE
		13839				15	B	16						
1" PANEL LZ / LZ2			21984	400	3	17	C	18						
	21792					19	A	20	3	100			4620	1" PANEL LW
		21610				21	B	22				7220		
						23	C	24			5720			
						25	A	26	3	60				1" TVSS
						27	B	28						
						29	C	30						
						31	A	32						
						33	B	34						
						35	C	36						
						37	A	38						
						39	B	40						
						41	C	42						
TOTALS	35631	35449	35823								6920	8620	5420	

VOLT AMPS		
	BUS A	41051
	BUS B	44069
	BUS C	42743
	TOTAL	127863

REMARKS: EXISTING PANEL WITH MODIFICATIONS
1" PROVIDE NEW BREAKER IN EXISTING PANEL. MATCH EXISTING BREAKER TYPE AND AIC RATING.
2" NEW LOAD ON EXISTING SPARE BREAKER. PROVIDE NEW LABEL FOR BREAKER AS SHOWN.

VOLTAGE	120	208												LOCATION	ELEC. B03				
PHASE 3 WIRE 4														MOUNTING	SURFACE				
BUS AMPS	400			PANEL		LZ								MAIN	LUGS				
				MAIN AMPS		400													

DESCRIPTION	VOLT AMPS			BRKR		CKT	BUS	CKT	BRKR		VOLT AMPS			DESCRIPTION
	A	B	C	AMP	P	NO	CONN	NO	P	AMP	C	B	A	
** CORRIDOR LIGHTS	500			20	1	1	A	2	1	20			1500	KITCHEN COUNTER
KITCHEN / JAN LTS.		650		20	1	3	B	4	1	20		1656		COFFEE BREWER
SPARE				20	1	5	C	6	1	20	800			STORAGE RECEPT.
STAGE LIGHTING	500			20	1	7	A	8	1	20			800	STORAGE RECEPT.
TRACKS (WHITE)		720		20	1	9	B	10	1	20		600		ACTIVITY RECEPT.
TRACKS (COLOR)			720	20	1	11	C	12	1	20	800			ACTIVITY RECEPT.
CORRIDOR RECEPT.	800			20	1	13	A	14	1	20			700	ACTIVITY LIGHTS
CORRIDOR RECEPT.		600		20	1	15	B	16	1	20		750		ACTIVITY LIGHTS
ICE RECEPT.			1000	20	1	17	C	18	1	20	700			ACTIVITY LIGHTS
ELEC. RECEPT.,	400			20	1	19	A	20	1	20			1800	* WARMING CABINET
OFFICE RECEPT.,		600		20	1	21	B	22	1	20		1800		* WARMING CABINET
KITCHEN RECEPT.			200	20	1	23	C	24	1	20	400			AV RECEPT.,
KITCHEN RECEPT.	400			20	1	25	A	26	1	20			400	AV RECEPT.
* ICE MAKER		1086		20	1	27	B	28	1	20		400		JANITOR RECEPT.
KITCHEN RECEPT.			200	20	1	29	C	30	1	20	1800			* WARMING CABINET
KITCHEN RECEPT.	200			20	1	31	A	32	1	20			200	KITCHEN RECEPT.
* REFRIGERATOR		804		20	1	33	B	34	1	20		200		KITCHEN RECEPT.
* REFRIGERATOR			804	20	1	35	C	36	1	20	200			KITCHEN RECEPT.
* FREEZER	1332			20	1	37	A	38	1	20			200	KITCHEN RECEPT.
KITCHEN RECEPT.		400		20	1	39	B	40	2	30		2250		WH-B01
MICROWAVE			1608	20	1	41	C	42			2250			
TOTALS	4132	4860	4532								6950	7656	5600	

VOLT AMPS		
	BUS A	9732
	BUS B	12516
	BUS C	11482
	TOTAL	33730

REMARKS: PANEL AND BREAKERS RATED FOR MINIMUM 35.2 KAIC
SECTION 1 OF 2
FEED THRU LUGS
* PROVIDE GFCI BREAKER
** PROVIDE HASP LOCK FOR BREAKER.

VOLTAGE	120	208												LOCATION	ELEC. B03				
PHASE 3 WIRE 4														MOUNTING	SURFACE				
BUS AMPS	400			PANEL		LZ2								MAIN	LUGS				
				MAIN AMPS		400													

DESCRIPTION	VOLT AMPS			BRKR		CKT	BUS	CKT	BRKR		VOLT AMPS			DESCRIPTION
	A	B	C	AMP	P	NO	CONN	NO	P	AMP	C	B	A	
TB	500			20	1	1	A	2	2	25			1186	HP-8
EF-13		128		20	1	3	B	4				1186		
EF-14			128	20	1	5	C	6	3	35	3072			AH-8
EF-15	128			20	1	7	A	8				3072		
EF-16		128		20	1	9	B	10					3072	
EF-17			128	20	1	11	C	12	2	60	2594			HP-9
SPARE				20	1	13	A	14					2594	
SPARE				20	1	15	B	16	3	50		4580		AH-9
SPARE				20	1	17	C	18			4580			
SPARE				20	1	19	A	20				4580		
SPARE				20	1	21	B	22	2					SPACE
SPARE				20	1	23	C	24						
SPARE				20	1	25	A	26	3					SPACE
SPARE				20	1	27	B	28						
SPARE				20	1	29	C	30						
SPARE				20	1	31	A	32	3					SPACE
SPACE						33	B	34						
SPACE						35	C	36						
SPACE						37	A	38	1					SPACE
SPACE						39	B	40	1					SPACE
SPACE						41	C	42	1					SPACE
TOTALS	628	256	256								10246	8838	11432	

VOLT AMPS		
	BUS A	12060
	BUS B	9094
	BUS C	10502
	TOTAL	31656

REMARKS: PANEL AND BREAKERS RATED FOR MINIMUM 35.2 KAIC
SECTION 2 OF 2

VOLTAGE	120	208												LOCATION	CASA HALL				
PHASE 3 WIRE 4														MOUNTING	RECESSED				
BUS AMPS	200			PANEL		LD - NEW								MAIN	LUGS				
				MAIN AMPS		200													

DESCRIPTION	VOLT AMPS			BRKR		CKT	BUS	CKT	BRKR		VOLT AMPS			DESCRIPTION
	A	B	C	AMP	P	NO	CONN	NO	P	AMP	C	B	A	
LIGHTS LIBRARY				20	1	1	A	2	1	20				LIGHTS LIBRARY
LIGHTS LIBRARY				20	1	3	B	4	1	20				LIGHTS LIBRARY
LIGHTS OFFICE				20	1	5	C	6	1	20				LIGHTS LIBRARY
LIGHTS LIBRARY				20	1	7	A	8	1	20				LIGHTS CONFERENCE
LIGHTS ROOM				20	1	9	B	10	1	20				LIGHTS ROOM & CONF.
LIGHTS RAMP & ROOM				20	1	11	C	12	1	20				RECEPT. OFFICE & MECH
RECEPT. CONFERENCE				20	1	13	A	14	1	20				RECEPT. CONFERENCE
RECEPT. LIBRARY				20	1	15	B	16	1	20				RECEPT. RM 1 & 2
				20	1	17	C	18	1	20				RECEPT. WORK ROOM
RECEPT. CONFERENCE				20	1	19	A	20	1	20				RECEPT. LIBRARY
EXITS & BATTERY				20	1	21	B	22	1	20				SWITCH S.C.
				20	1	23	C	24	1	20				REC. COMP
				20	1	25	A	26	1	20				
				50	3	27	B	28	3	50				
						29	C	30						
						31	A	32						
				20	1	33	B	34	1	20				
PANEL LS			800	70	3	35	C	36	1	20				1" SPARE
	800					37	A	38	1	20				1" SPARE
		600				39	B	40	1	20		800		1" OFFICE RECEPT.
SPACE					1	41	C	42	1	20	400			1" BATHROOM RECEPT.
TOTALS	800	600	800								400	800	0	

VOLT AMPS		
	BUS A	800
	BUS B	1400
	BUS C	1200
	TOTAL	3400

REMARKS: EXISTING PANEL WITH MODIFICATIONS
* PROVIDE GFCI BREAKER
1" PROVIDE NEW BREAKER IN EXISTING PANEL. MATCH EXISTING BREAKER TYPE AND AIC RATING.

VOLTAGE	120	208												LOCATION	CASA HALL				
PHASE 3 WIRE 4														MOUNTING	RECESSED				
BUS AMPS	100			PANEL		LW								MAIN	LUGS				
				MAIN AMPS		100													

DESCRIPTION	VOLT AMPS			BRKR		CKT	BUS	CKT	BRKR		VOLT AMPS			DESCRIPTION
	A	B	C	AMP	P	NO	CONN	NO	P	AMP	C	B	A	
* EWC	1500			20	1	1	A	2	2	20			1560	WH-C01
* EWC		1500		20	1	3	B	4				1560		
SPARE				20	1	5	C	6	2	20	1560			WH-C02
SPARE				20	1	7	A	8					1560	
SPARE				20	1	9	B	10	2	50		4160		WH-C05
SPARE				20	1	11	C	12			4160			
SPACE					1	13	A	14	2					SPACE
SPACE					1	15	B	16						
SPACE					1	17	C	18	1					SPACE
TOTALS	1500	1500	0								5720	5720	3120	

VOLT AMPS		
	BUS A	4620
	BUS B	7220
	BUS C	5720
	TOTAL	17560

REMARKS: PANEL AND BREAKERS RATED FOR MINIMUM 10.0 KAIC
* PROVIDE GFCI BREAKER

VOLTAGE	120	208												LOCATION	CAFÉ STAGE				
PHASE 3 WIRE 4														MOUNTING	SURFACE				
BUS AMPS	225			PANEL		LS - NEW								MAIN	LUGS				
				MAIN AMPS		225													

DESCRIPTION	VOLT AMPS			BRKR		CKT	BUS	CKT	BRKR		VOLT AMPS			DESCRIPTION
	A	B	C	AMP	P	NO	CONN	NO	P	AMP	C	B	A	
S3				20	1	1	A	2	1	20				S2
S1				20	1	3	B	4	1	20				SL1
SL2				20	1	5	C	6	1	20				SL3
				20	1	7	A	8	1	20				
				20	1	9	B	10	1	20				
				20	2	11	C	12	1	20				
						13	A	14	1	20			400	1* STAGE RECEPT.
1* STAGE RECEPT.		400		20	1	15	B	16	1	20		400		1* STAGE RECEPT.
1* STAGE RECEPT.			600	20	1	17	C	18	1	20				1* SPARE
1* STAGE RECEPT.	400			20	1	19	A	20	1	20				1* SPARE
TOTALS	400	400	600								0	400	400	

VOLT AMPS		
	BUS A	800
	BUS B	800
	BUS C	600
	TOTAL	2200

REMARKS: EXISTING PANEL WITH MODIFICATIONS
1* PROVIDE NEW BREAKER IN EXISTING PANEL. MATCH EXISTING BREAKER TYPE AND AIC RATING.

SERVICE DEMAND CALCULATIONS

	CONNECTED LOAD (VA)	DEMAND FACTOR	CALCULATED DEMAND (VA)
TOTAL CONNECTED LOAD (VA)	1,161,473		
LIGHTING	17,130	1.25	21,413
HVAC	180,713	1.00	180,713
HVAC (CONTINUOUS)	0	1.25	0
LARGEST MOTOR	128	1.25	160
MOTOR LOAD	1,024	1.00	1,024
RECEPTACLE (FIRST 10,000 VA)	10,000	1.00	10,000
RECEPTACLE (GREATER THAN 10,000 VA)	33,750	0.50	16,875
WATER HEATER	66,140	1.00	66,140
MISC LOADS	106,028	1.00	106,028
ADDITIONAL SP LOADS (WORST CASE)	65,140	1.00	65,140
PANEL HA LOAD (WORST CASE)	149,580	1.00	149,580
COMMUNITY BLDG LOAD (WORST CASE)	531,840	1.00	531,840
DEMAND LOAD - VOLT-AMPERES			**1,148,913**
DEMAND LOAD - 480V 3-PHASE AMPS			**1382.6**

1 SERVICE WIREWAY IS SIZED/RATED FOR 1700 AMPS.

PANEL HL DEMAND CALCULATIONS

	CONNECTED LOAD (VA)	DEMAND FACTOR	CALCULATED DEMAND (VA)
TOTAL CONNECTED LOAD (VA)	5,790		
LIGHTING	4,890	1.25	6,113
HVAC	0	1.00	0
HVAC (CONTINUOUS)	0	1.25	0
LARGEST MOTOR	0	1.25	0
MOTOR LOAD	0	1.00	0
RECEPTACLE (FIRST 10,000 VA)	400	1.00	400
RECEPTACLE (GREATER THAN 10,000 VA)	0	0.50	0
WATER HEATER	0	1.00	0
MISC LOADS	500	1.00	500
DEMAND LOAD - VOLT-AMPERES			**7,013**
DEMAND LOAD - 480V 3-PHASE AMPS			**8.4**

PANEL IS SIZED/RATED FOR 100 AMPS.

PANEL LL DEMAND CALCULATIONS

	CONNECTED LOAD (VA)	DEMAND FACTOR	CALCULATED DEMAND (VA)
TOTAL CONNECTED LOAD (VA)	900		
LIGHTING	0	1.25	0
HVAC	0	1.00	0
HVAC (CONTINUOUS)	0	1.25	0
LARGEST MOTOR	0	1.25	0
MOTOR LOAD	0	1.00	0
RECEPTACLE (FIRST 10,000 VA)	900	1.00	900
RECEPTACLE (GREATER THAN 10,000 VA)	0	0.50	0
WATER HEATER	0	1.00	0
MISC LOADS	500	1.00	500
DEMAND LOAD - VOLT-AMPERES			**900**
DEMAND LOAD - 208V 3-PHASE AMPS			**2.5**

PANEL IS SIZED/RATED FOR 100 AMPS.

PANEL HB DEMAND CALCULATIONS

	CONNECTED LOAD (VA)	DEMAND FACTOR	CALCULATED DEMAND (VA)
TOTAL CONNECTED LOAD (VA)	76,326		
LIGHTING	2,250	1.25	2,813
HVAC	38,468	1.00	38,468
HVAC (CONTINUOUS)	0	1.25	0
LARGEST MOTOR	128	1.25	160
MOTOR LOAD	0	1.00	0
RECEPTACLE (FIRST 10,000 VA)	7,600	1.00	7,600
RECEPTACLE (GREATER THAN 10,000 VA)	0	0.50	0
WATER HEATER	19,380	1.00	19,380
MISC LOADS	8,500	1.00	8,500
DEMAND LOAD - VOLT-AMPERES			**76,921**
DEMAND LOAD - 480V 3-PHASE AMPS			**92.6**

PANEL IS SIZED/RATED FOR 225 AMPS.

PANEL LB DEMAND CALCULATIONS

	CONNECTED LOAD (VA)	DEMAND FACTOR	CALCULATED DEMAND (VA)
TOTAL CONNECTED LOAD (VA)	55,046		
LIGHTING	350	1.25	438
HVAC	38,468	1.00	38,468
HVAC (CONTINUOUS)	0	1.25	0
LARGEST MOTOR	128	1.25	160
MOTOR LOAD	256	1.00	256
RECEPTACLE (FIRST 10,000 VA)	7,600	1.00	7,600
RECEPTACLE (GREATER THAN 10,000 VA)	0	0.50	0
WATER HEATER	0	1.00	0
MISC LOADS	8,500	1.00	8,500
DEMAND LOAD - VOLT-AMPERES			**55,166**
DEMAND LOAD - 208V 3-PHASE AMPS			**153.2**

PANEL IS SIZED/RATED FOR 225 AMPS.

PANEL HC DEMAND CALCULATIONS

	CONNECTED LOAD (VA)	DEMAND FACTOR	CALCULATED DEMAND (VA)
TOTAL CONNECTED LOAD (VA)	147,146		
LIGHTING	4,750	1.25	5,938
HVAC	70,212	1.00	70,212
HVAC (CONTINUOUS)	0	1.25	0
LARGEST MOTOR	128	1.25	160
MOTOR LOAD	256	1.00	256
RECEPTACLE (FIRST 10,000 VA)	10,000	1.00	10,000
RECEPTACLE (GREATER THAN 10,000 VA)	12,200	0.50	6,100
WATER HEATER	27,700	1.00	27,700
MISC LOADS	21,900	1.00	21,900
DEMAND LOAD - VOLT-AMPERES			**142,266**
DEMAND LOAD - 480V 3-PHASE AMPS			**171.2**

PANEL IS SIZED/RATED FOR 225 AMPS.

PANEL SP DEMAND CALCULATIONS

	CONNECTED LOAD (VA)	DEMAND FACTOR	CALCULATED DEMAND (VA)
TOTAL CONNECTED LOAD (VA)	188,193		
LIGHTING	5,240	1.25	6,550
HVAC	72,033	1.00	72,033
HVAC (CONTINUOUS)	0	1.25	0
LARGEST MOTOR	128	1.25	160
MOTOR LOAD	512	1.00	512
RECEPTACLE (FIRST 10,000 VA)	8,800	1.00	8,800
RECEPTACLE (GREATER THAN 10,000 VA)	0	0.50	0
WATER HEATER	19,060	1.00	19,060
MISC LOADS	19,060	1.00	19,060
PANEL LD (ASSUMED FULL LOAD)	28,800	1.00	28,800
E.H.1. CAFÉ (ASSUMED FULL LOAD)	17,280	1.00	17,280
ROOF TOP SOUTH (ASSUMED FULL LOAD)	17,280	1.00	17,280
DEMAND LOAD - VOLT-AMPERES			**189,535**
DEMAND LOAD - 208V 3-PHASE AMPS			**526.5**

PANEL IS SIZED/RATED FOR 800 AMPS.

PANEL LZ/LZ2 DEMAND CALCULATIONS

	CONNECTED LOAD (VA)	DEMAND FACTOR	CALCULATED DEMAND (VA)
TOTAL CONNECTED LOAD (VA)	65,386		
LIGHTING	5,240	1.25	6,550
HVAC	30,516	1.00	30,516
HVAC (CONTINUOUS)	0	1.25	0
LARGEST MOTOR	128	1.25	160
MOTOR LOAD	512	1.00	512
RECEPTACLE (FIRST 10,000 VA)	8,800	1.00	8,800
RECEPTACLE (GREATER THAN 10,000 VA)	0	0.50	0
WATER HEATER	4,500	1.00	4,500
MISC LOADS	15,690	1.00	15,690
DEMAND LOAD - VOLT-AMPERES			**66,728**
DEMAND LOAD - 208V 3-PHASE AMPS			**185.4**

PANEL IS SIZED/RATED FOR 400 AMPS.

PANEL LW DEMAND CALCULATIONS

	CONNECTED LOAD (VA)	DEMAND FACTOR	CALCULATED DEMAND (VA)
TOTAL CONNECTED LOAD (VA)	17,560		
LIGHTING	0	1.25	0
HVAC	0	1.00	0
HVAC (CONTINUOUS)	0	1.25	0
LARGEST MOTOR	0	1.25	0
MOTOR LOAD	0	1.00	0
RECEPTACLE (FIRST 10,000 VA)	0	1.00	0
RECEPTACLE (GREATER THAN 10,000 VA)	0	0.50	0
WATER HEATER	14,560	1.00	14,560
MISC LOADS	3,000	1.00	3,000
DEMAND LOAD - VOLT-AMPERES			**17,560**
DEMAND LOAD - 208V 3-PHASE AMPS			**48.8**

PANEL IS SIZED/RATED FOR 100 AMPS.

PANEL LC/LC2 DEMAND CALCULATIONS

	CONNECTED LOAD (VA)	DEMAND FACTOR	CALCULATED DEMAND (VA)
TOTAL CONNECTED LOAD (VA)	114,696		
LIGHTING	0	1.25	0
HVAC	70,212	1.00	70,212
HVAC (CONTINUOUS)	0	1.25	0
LARGEST MOTOR	128	1.25	160
MOTOR LOAD	256	1.00	256
RECEPTACLE (FIRST 10,000 VA)	10,000	1.00	10,000
RECEPTACLE (GREATER THAN 10,000 VA)	12,200	0.50	6,100
WATER HEATER	0	1.00	0
MISC LOADS	21,900	1.00	21,900
DEMAND LOAD - VOLT-AMPERES			**108,628**
DEMAND LOAD - 208V 3-PHASE AMPS			**301.7**

PANEL IS SIZED/RATED FOR 400 AMPS.

ALPHA BLDG SET 08-27-2024

PHASE I

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Project:
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NEWTON CO. BOC RFP #24-04
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COVINGTON, GEORGIA.

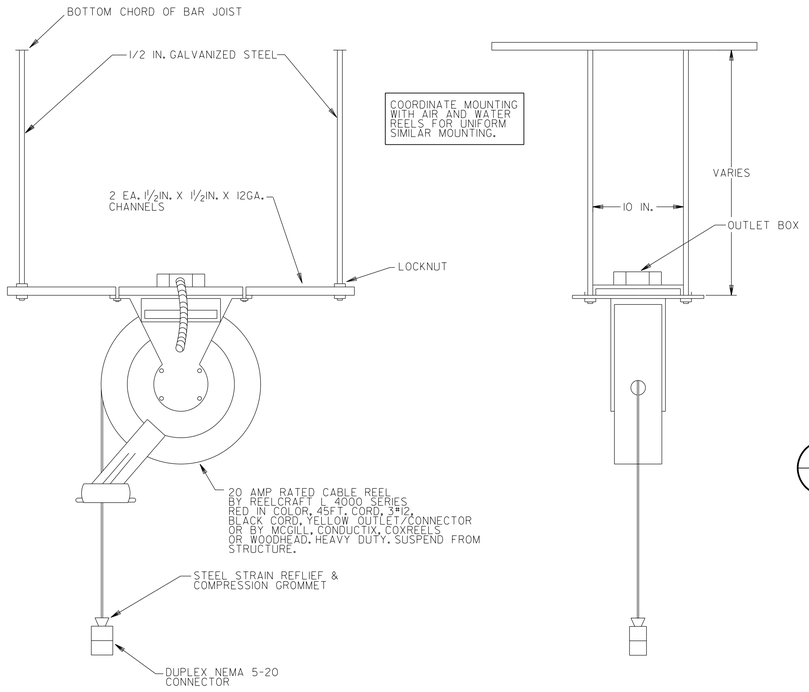
Issue Date:	Initial	Drwg. Revision Description:
06-27-24	TAW	FOR CONSTRUCTION
07-03-24	TAW	VE REVISION 1

Project No.: 2023012
Drwg. Date: 06/27/24
Drwg. Revision:
Drawn By: TAW
Checked By: JHM
File Name:

Sheet Title:
PANEL SCHEDULES AND DEMAND CALCULATIONS

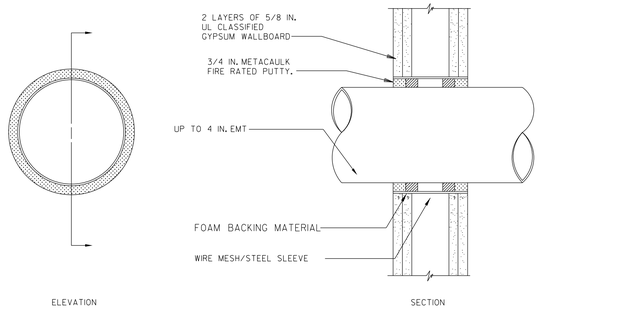
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1 / E-7.1 CABLE REEL DETAIL

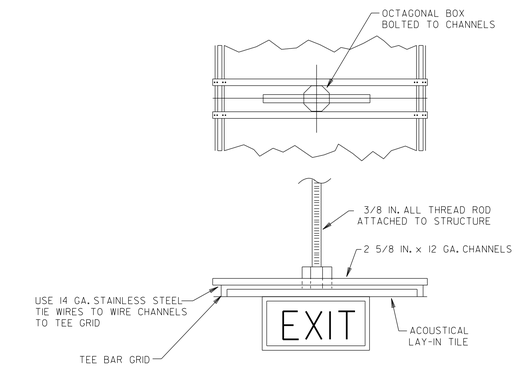
NOT TO SCALE



NOTE: WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW VOLTAGE CABLES THROUGH A RATED WALL, LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE.

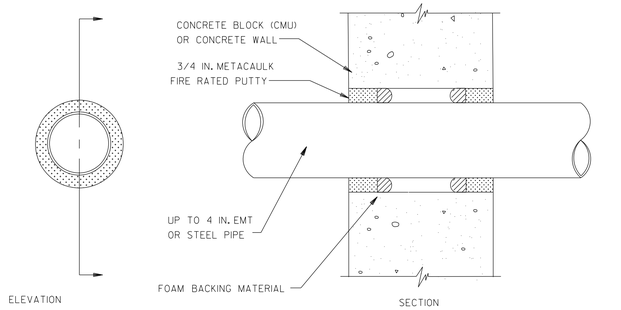
3 / E-7.1 DETAIL - GYPSUM WALLBOARD PENETRATION

NOT TO SCALE



6 / E-7.1 TYPICAL EXIT LIGHT MOUNTING DETAIL

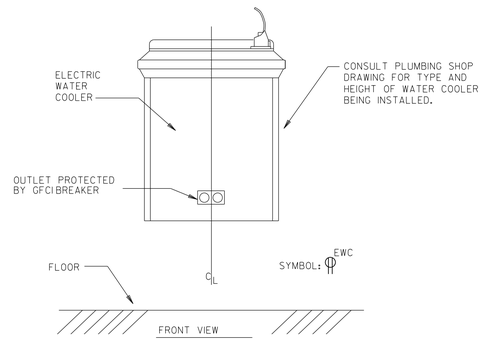
NOT TO SCALE



NOTE: WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW VOLTAGE CABLES THROUGH A RATED WALL. LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE.

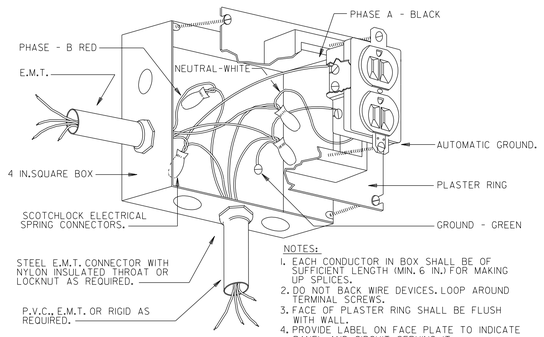
4 / E-7.1 DETAIL - CONCRETE WALL PENETRATION

NOT TO SCALE



7 / E-7.1 TYPICAL RECEPTACLE LOCATION @ ELECTRIC WATER COOLER

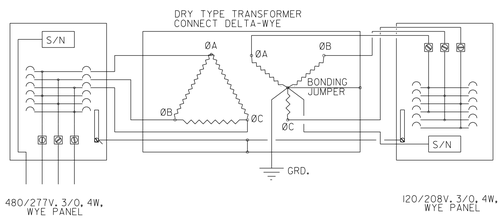
NOT TO SCALE



NOTES:
1. EACH CONDUCTOR IN BOX SHALL BE OF SUFFICIENT LENGTH (MIN. 6 IN.) FOR MAKING UP SPLICES.
2. DO NOT BACK WIRE DEVICES. LOOP AROUND TERMINAL SCREWS.
3. FACE OF PLASTER RING SHALL BE FLUSH WITH WALL.
4. PROVIDE LABEL ON FACE PLATE TO INDICATE PANEL AND CIRCUIT SERVING IT.
5. PROVIDE RED COLOR RECEPTACLE FOR EMERGENCY.

2 / E-7.1 RECEPTACLE CONNECTION DETAIL

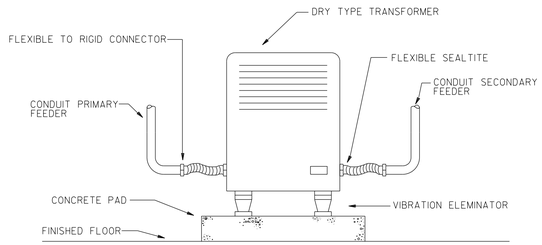
NOT TO SCALE



5 / E-7.1 DRY TYPE TRANSFORMER CONNECTION

NOT TO SCALE

WIRE COLOR CODE		
A/C	120/208	277/480
PHASE A	BLACK	BROWN
PHASE B	RED	ORANGE
PHASE C	BLUE	YELLOW
NEUTRAL	WHITE	GRAY
GROUND	GREEN	GREEN



8 / E-7.1 FLOOR MOUNTED TRANSFORMER

NOT TO SCALE

ALPHA BLDG SET 08-27-2024

PHASE I

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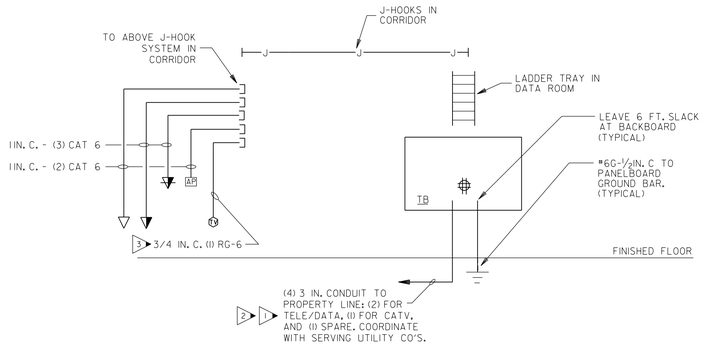
Project: R. L. COUSINS CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA.

Issue Date:	Initial:	Drwg. Revision Description:
06-27-24	TAW	FOR CONSTRUCTION

Project No.: 2023012
Drwg. Date: 06/27/24
Drwg. Revision:
Drawn By: TAW
Checked By: JHM
File Name:

Sheet Title: *ELECTRICAL DETAILS*

Sheet No.: E-7.1



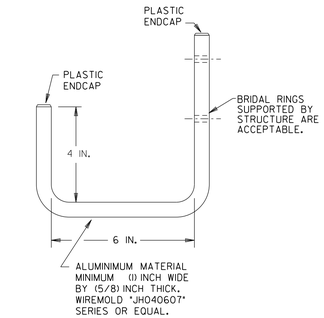
1 / E-7.2 TELEPHONE/DATA/CATV RISER

NOT TO SCALE

KEYED NOTES: (DETAIL 1/E-7.2 ONLY)

1. PROVIDE (2) - 3 IN. CONDUITS FOR DATA/TEL. (1) CONDUIT FOR 50 PAIR EXTERIOR RATED, GEL FILLED COPPER CAT 6. (1) CONDUIT FOR 12 STRAND HYBRID FIBER. COORDINATE WITH OWNER FOR EXACT FIBER SPECIFICATIONS AND TERMINATIONS. COORDINATE EXACT DATA/TEL STUB OUT LOCATIONS AT STREET WITH SERVING UTILITY COMPANIES.
2. PROVIDE (1) - 3 IN. CONDUIT WITH PULL STRING FOR CATV SYSTEM. COORDINATE EXACT STUB OUT LOCATION AT STREET WITH SERVING UTILITY COMPANY.
3. LEAVE 6 FT. OF CABLE COIL AT BACKBOARD AND IIN. CABLE COIL IN OUTLET BOXES.

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2 / E-7.2 J-HOOK DETAIL

NOT TO SCALE

WIRE MANAGEMENT NOTES

NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FULL J-HOOK SYSTEM IN THE CORRIDORS FOR LOW VOLTAGE CABLING.

B. ALL J- HOOKS SHALL BE SPACED NO MORE THAN 48 INCHES APART AND NO MORE THAN 12 INCHES FROM THE CORNER OF ANY SPACE.

C. PROVIDE J-HOOKS NO MORE THAN 12 INCHES AWAY FROM CONDUIT SLEEVES.

D. WHERE J-HOOKS ARE (2) ROWS: SPACING BETWEEN THE ROWS SHALL BE 12 INCHES.

E. CONDUIT SLEEVES SHALL BE AT THE SAME LEVEL AS THE ROWS OF J-HOOKS.

F. FIRE SEAL AROUND ALL CONDUIT SLEEVES. SEE ARCHITECTURAL SHEET FOR REQUIRED RATINGS.

G. COORDINATE THE EXACT LEVEL OF J-HOOKS AND CONDUIT SLEEVES WITH OTHER TRADES PRIOR TO ROUGHING.

H. J-HOOKS SHALL NOT BE SUPPORTED BY GYPSUM WALL BOARD. J-HOOKS SHALL BE SUPPORTED BY BLOCK WALL OR STUD. SEE ARCHITECTURAL PLAN FOR WALL MATERIALS.

I. ALL CABLING SHALL BE NEATLY BUNDLED UTILIZING 'NOT A CINCH' TYPE RATED VELCRO TIE WRAPS.

J. J-HOOKS SHALL SUPPORT CABLING FOR: FIRE ALARM, DATA, TELEPHONE, CABLETV, SOUND, AND SECURITY.

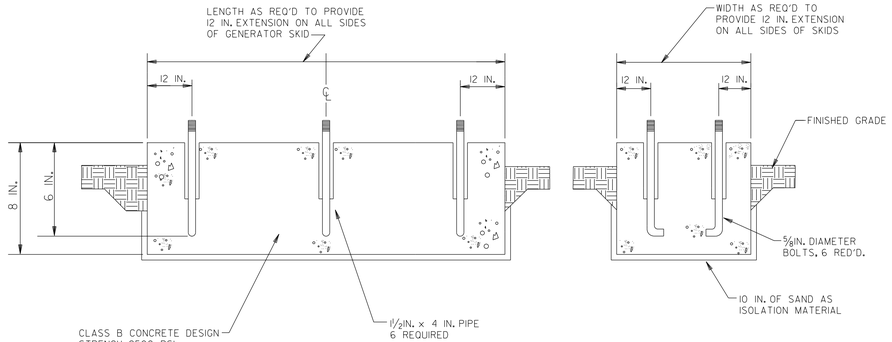
K. ONE ROW SHALL SUPPORT SOUND CABLING, ONE ROW SHALL SUPPORT DATA/TELEPHONE CABLING. ONE ROW SHALL SUPPORT CABLETV CABLING, ONE ROW SHALL SUPPORT FIRE ALARM SYSTEM, ONE ROW SHALL SUPPORT SECURITY CABLING.

L. SEE DETAIL - CONCRETE WALL PENETRATION, 4/E-7.1.

M. SEE DETAIL - GYPSUM WALLBOARD PENETRATION, 3/E-7.1.

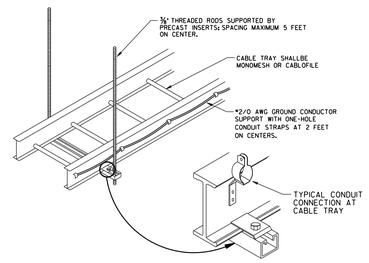
N. WHERE J-HOOKS ARE REQUIRED ABOVE SOLID SOFFITS MORE THAN TWO FEET WIDE, PROVIDE J-HOOKS HUNG FROM STRUCTURE (4 HOOKS PRE 3/8 IN THREADED ROD.

O. PROVIDE (2) 2 INCH CONDUIT SLEEVES INTO ALL SPACES FROM CORRIDOR WHERE RATED WALLS OCCUR.



4 / E-7.2 GENERATOR PAD DETAIL

NOT TO SCALE



3 / E-7.2 LADDER CABLE TRAY

NOT TO SCALE

NOTE: LADDER TRAY ONLY IN DATA AND LOW VOLTAGE ROOMS. SEE DRAWINGS FOR LADDER TRAY SIZE.

GENERAL NOTES: (DATA CABLING)

1. ADDITIONAL WALL SLEEVES AND WALL PENETRATIONS WILL BE REQUIRED FOR NETWORK CABLING. PROVIDE AS NECESSARY AND FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS.
2. ALL JACKS SHALL BE PROVIDED WITH ICON DENOTING DATA OR VOICE OUTLET. OUTLET SHALL BE LABELED WITH FOLLOWING NOMENCLATURE.
   - D M XXX
     - XXX — JACK NUMBER
     - M — MDF OR IDF DESIGNATION FROM WHICH JACK IS SERVED.
     - D — D OR V INDICATING VOICE OR DATA OUTLET.

   ALL PATCH PANELS AND IIO BLOCKS SHALL BE CORRESPONDINGLY LABELED.
3. PROVIDE METAL D-RING OR RING RUNS AS NECESSARY TO PROPERLY LACE AND SUPPORT ALL CABLING AT BACKBOARDS.
4. REFER TO 1/8IN. PLANS SHOWING OUTLET LOCATIONS, PANEL LOCATIONS, CEILING TYPES, ETC.
5. GROUND ALL RACKS WITH #6 COPPER LOCATED AT EACH BACKBOARD. CONTRACTOR SHALL ROUTE #6G,¾IN. C. TO GROUND PLATE. PROVIDE 12 IN. CABLE RUNWAY SPANNING FROM TOP OF RACK TO WALL AND TURNED UP TO ABOVE DROP TILE CEILING IN ORDER TO ROUTE CABLE TO RACK. AT EACH RACK LOCATION PROVIDE A ¾IN.x4 FT.x8 FT. BACKBOARD PAINTED WITH TWO COATS OF BLACK FIRE RETARDANT PAINT.
6. TY-WRAPS SHALL NOT BE CINCHED DOWN TIGHT ENOUGH TO DEFORM CABLES. MAINTAIN MINIMUM BEND RADIUS ON FIBER, TIE CABLES, STATION WIRES, AND PATCH CORDS.
7. REFER TO SPECIFICATIONS FOR CABLING. ALL CABLING SHALL BE PLENUM RATED.
8. PROVIDE VELCRO CABLE WRAPS AT RACKS TO PROPERLY LACE AND TRAIN PATCH CORDS AT RACKS IN AN ORDERLY FASHION.
9. FIELD VERIFY MOUNTING SPACE IN DATA RACK ROOM. PROVIDE WALL MOUNTED RACKS WHERE NECESSARY.
10. CABLING FOR COMPUTER DATA SHALL BE ROUTED VIA CABLE TRAY SYSTEM. PROVIDE CONDUIT TO 6 IN. ABOVE ACCESSIBLE CEILING. BUNDLE CABLES, SLEEVE THROUGH CORRIDOR WALL USING 4 IN.C.
11. NETWORK HUBS AND ELECTRONICS, RACK MOUNTED UPS, PATCH CORDS AND FIBER OPTIC PATCH CORDS ARE INCLUDED IN CONTRACT.
12. REFER TO POWER SHEETS FOR ADDITIONAL INFORMATION.
13. SEE WIRE MANAGEMENT NOTES.

PHASE I

GEORGIA REGISTERED PROFESSIONAL ENGINEER JEFFREY H. McGEE
Seal:

ELECTRICAL DESIGN CONSULTANTS, INC.
175 NEW ST. STE.1
MACON, GA 31201
EDC• M24004

Client: sunbelt BUILDERS
10641 HWY 36, COVINGTON, GA 30014, TEL: 770 786 3031

Project: R. L. COUSINS CENTER
NEWTON CO. BOC RFP #24-04
8134 GEIGER STREET, N.W.
COVINGTON, GEORGIA.

Issue Date:	Initial:	Drwg. Revision Description:
06-27-24	TAW	FOR CONSTRUCTION

Project No.: 2023012
Drwg. Date: 06/27/24
Drwg. Revision:
Drawn By: TAW
Checked By: JHM
File Name:

Sheet Title: *ELECTRICAL DETAILS*

Sheet No.: E-7.2

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COMcheck Software Version 4.1.5.5

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: R. L. Cousins Center Phase 1
Project Type: Alteration

Construction Site:
8134 Geiger Street N.W.
Covington, GA 30014

Owner/Agent:

Designer/Contractor:
Electrical Design Consultants
175 New Street
Suite 1
Macon, GA 31201

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Office	29907	0.82	24524
		Total Allowed Watts =	24524

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Office (29907 sq.ft.)				
A: A: 2 FT. X 2 FT. TROFFER: LED Panel 44W:	1	98	43	4214
B: B: 2 FT. X 2 FT. TROFFER: LED Panel 33W:	1	28	34	952
C: C: 2 FT. X 4 FT. TROFFER: LED Panel 33W:	1	102	34	3468
E: E: 4 FT. STRIP LIGHT: LED Other Fixture Unit 36W:	1	44	36	1584
F: F: 4 FT. STRIP LIGHT: LED Other Fixture Unit 36W:	1	32	36	1152
G: G: 4 FT. LED PENDANT LIGHT: LED Other Fixture Unit 46W:	1	94	46	4324
H: H: 6 FT. TRACK WITH HEADS: Wattage based on current limiting device capacity	0	0	120	120
H: H: 6 FT. TRACK WITH HEADS: Wattage based on current limiting device capacity	0	0	120	120
J: J: 12 FT. TRACK WITH HEADS: Wattage based on total luminaires	0	0	720	720
J: J: 12 FT. TRACK WITH HEADS: Wattage based on total luminaires	0	0	720	720
K: K: 2 FT. WALL STRIP: LED Other Fixture Unit 13W:	1	4	12	48
			Total Proposed Watts =	17422

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COM*check* Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Insoection Checklist.

Jeffrey H. McGee, PE — Signature — 04/17/24
Name - Title — Date

Project Title: R. L. Cousins Center Phase 1 Report date: 04/17/24
Data filename: Z:\2024 CAD\M24004 RL Cousins Center\WORKING DRAWINGS\ELEC\LIGHTING\RL Cousins Phase 1 COMcheck.cck

COMcheck Software Version 4.1.5.5

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: R. L. Cousins Center Phase 1
Project Type: Alteration
Exterior Lighting Zone 2 (Residentially zoned area (LZ2))

Construction Site:
8134 Geiger Street N.W.
Covington, GA 30014

Owner/Agent:

Designer/Contractor:
Electrical Design Consultants
175 New Street
Suite 1
Macon, GA 31201

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
DRIVEWAYS (Driveway)	8584 ft2	0.06	Yes	515
PARKING LOTS (Parking area)	25451 ft2	0.06	Yes	1527
COMMUNITY PATH (Walkway < 10 feet wide)	515 ft of	0.7	Yes	360
ACTIVITY AREA (Special feature area)	12800 ft2	0.14	Yes	1792
BUILDING PERIMETER (Walkway < 10 feet wide)	1100 ft of	0.7	Yes	770
			Total Tradable Watts (a) =	4965
			Total Allowed Watts =	4965
			Total Allowed Supplemental Watts (b) =	600

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
DRIVEWAYS (Driveway 8584 ft2): Tradable Wattage				
OD: OD: POLE MOUNTED AREA LIGHT: LED Other Fixture Unit 125W:	1	2	114	228
PARKING LOTS (Parking area 25451 ft2): Tradable Wattage				
OD: OD: POLE MOUNTED AREA LIGHT: LED Other Fixture Unit 125W:	1	7	114	798
COMMUNITY PATH (Walkway < 10 feet wide 515 ft of walkway length): Tradable Wattage				
OE: OE: POST TOP LIGHT: LED Other Fixture Unit 25W:	1	3	26	78
ACTIVITY AREA (Special feature area 12800 ft2): Tradable Wattage				
OC: OC: POLE MOUNTED AREA LIGHT: LED Other Fixture Unit 125W:	1	3	114	342
BUILDING PERIMETER (Walkway < 10 feet wide 1100 ft of walkway length): Tradable Wattage				
OA: OA: BUILDING WALL PACK: LED Other Fixture Unit 50W:	1	32	51	1632
			Total Tradable Proposed Watts =	3078

Project Title: R. L. Cousins Center Phase 1 Report date: 04/17/24
Data filename: Z:\2024 CAD\M24004 RL Cousins Center\WORKING DRAWINGS\ELEC\LIGHTING\RL Cousins Phase 1 COMcheck.cck

Exterior Lighting PASSES

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2015 IECC requirements in COM*check* Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jeffrey H. McGee, PE — Signature — 04/17/24
Name - Title — Date

Project Title: R. L. Cousins Center Phase 1 Report date: 04/17/24
Data filename: Z:\2024 CAD\M24004 RL Cousins Center\WORKING DRAWINGS\ELEC\LIGHTING\RL Cousins Phase 1 COMcheck.cck

ALPHA BLDG SET 08-27-2024

PHASE I

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Checked By: JHM
File Name:

Sheet Title: LIGHTING COMCHECK REPORTS

Sheet No.: E-7.3