

BRAVO BLDG SET 04-21-2025

COMMUNITY CENTER BLDG. – PHASE TWO

8134 GEIGER STREET, N.W.  
COVINGTON, GEORGIA

CONSULTANTS & CONTRACTORS

GENERAL CONTRACTOR

SUNBELT BUILDERS

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CIVIL ENGINEER

GEORGIA CIVIL, INC.

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ARCHITECT

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STRUCTURAL ENGINEER

OCONEE ENGINEERING

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TOTAL ENGINEERS

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ELECTRICAL CONSULTANT

ELECTRICAL DESIGN CONSULTANTS, INC.

CONTACT – JEFF McGEE, P.E.  
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(478) 781-1833

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

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  
F.L. – 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  
F.T. – FOOTING  
FT. – FOOT  
F.V. – FIELD VERIFY  
G.B. – GAGE OR GAUGE  
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  
REQD. – REQUIRED  
R.O. – ROUGH OPENING  
S. – STRUCTURE LINE  
S.D. – SOAP DISPENSER  
S.F. – SQUARE FOOT  
S.J. – SAVED 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. – TRAP  
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  
EXTERIOR ELEVATION  
INTERIOR ELEVATION  
WALL SECTIONS  
DETAIL REFERENCE  
DRAWING TITLE  
SCALE:  
WINDOW TYPES  
HANDICAP FIXTURE  
FIRE EXTINGUISHER  
PIPE BOLLARD  
TOILET ACCESSORIES OR EQUIPMENT NUMBER  
DOOR NUMBER  
CEILING FINISH  
DATUM ELEVATION  
COLUMN LINE  
MATCH LINE  
REVISION / REISSUE  
SPANDREL GLASS  
TEMPERED GLASS  
WALL TYPE

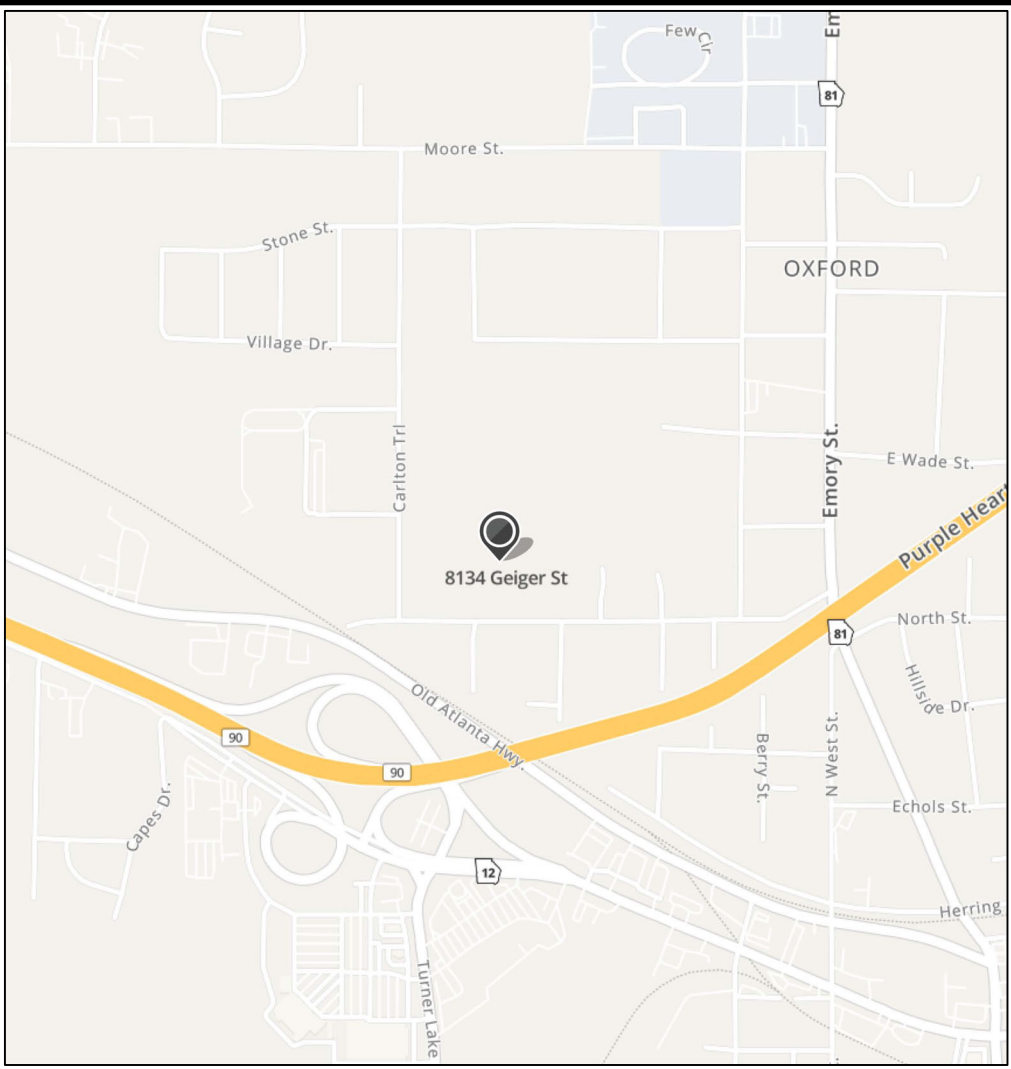
MATERIALS

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

04/19/24 PROGRESS SET RELEASED FOR PRICING  
06/28/24 RELEASED FOR PERMIT AND CONSTRUCTION

VICINITY MAP



PROJECT CRITERIA

NAME OF DEVELOPMENT: RL COUSINS COMMUNITY CENTER  
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  
B. Type of Construction: IIB Sprinklered: Yes Fire Alarm: Yes  
C. Seismic Risk Category: II Seismic Design Category: C  
D. Building Area in Square Feet:  
Existing 31,813 Demolition 0 Additions 9,384 Total: 41,197  
Allowable area:  $A_a = A_t + \left[ \frac{A_t \text{ If } 100}{100} \right]$   
 $A_a = 38,000 + 28,500 = 66,500$   
E. Number of Stories: 1 Includes: Basement: N/A Mezzanine: N/A Canopy – Porch N  
F. Building Height (ft): 25'-0" Max. per IBC: 75'  
G. Building permit: Complete Yes Shell: No # Suites: – # Buildings: 1  
H. Calculated Occupancy Load: 514, See sheet A-1.5.2  
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 (IMC) – 2018 Edition with 2020 and 2024 Georgia State Amendments  
3) International Plumbing Code (IPC) – 2018 Edition with 2020, 2022, 2023 and 2024 Georgia State Amendments and IPC appendix F  
4) International Fire Code (IFC) – 2018 Edition with 2020 and 2022 Georgia State Fire Commissioner Amendments 120-3-3-.04  
5) International Fuel Gas Code (IFGC) – 2018 Edition with 2020 and 2022 Georgia State Amendments  
6) International Energy Conservation Code – 2015 Edition with 2020, 2022 and 2023 Georgia State Amendments and Amendments  
7) National Electrical Code (NEC) – 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 120-3-3-20(.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 OCA 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  
COVER SHEET  
A-0.3 GENERAL NOTES & SPECIFICATIONS  
A-0.4 GENERAL NOTES & SPECIFICATIONS  
A-1.0.4 WING B (PHASE 2) DEMOLITION PLAN  
A-1.2 OVERALL (PHASE 2) RENOVATED KEY PLAN  
A-1.2.4 ENLARGED FLOOR PLAN  
A-1.2.5 INTERIOR FLOOR PLAN  
A-1.3.4 COMM. CTR. REFLECTED CEILING PLAN  
A-1.5 ROOF PLAN  
A-1.5.2 LIFE SAFETY PLAN  
A-1.5.3 ENLARGED TOILET PLANS & DETAILS  
A-2.2 BUILDING ELEVATIONS  
A-3.1.1 INTERIOR FINISH & WINDOW SCHEDULES  
A-3.2.1 DOOR SCHEDULE  
A-3.3.1 DOOR DETAILS  
A-3.5 INTERIOR ELEVATIONS  
A-4.1.4 WALL TYPE DETAILS  
A-4.1.5 WALL TYPE DETAILS  
A-4.4 WALL SECTIONS  
A-4.5 WALL SECTIONS  
A-4.6 WALL SECTIONS  
A-4.7 WALL SECTIONS  
A-4.8 WALL SECTIONS  
A-4.9 WALL SECTIONS  
A-4.10 WALL SECTIONS  
A-5.2 CONSTRUCTION DETAILS  
STRUCTURAL  
S-0.1 STRUCTURAL SPECIFICATIONS  
S-0.2 STRUCTURAL SPECIFICATIONS  
S-0.3 SPECIAL INSPECTIONS  
2S-1.0 FOUNDATION PLAN  
2S-1.1 ROOF FRAMING PLAN  
2S-3.0 SECTIONS  
2S-3.1 SECTIONS  
2S-3.2 SECTIONS  
2S-4.0 FOUNDATION & FRAMING DETAILS  
2S-4.1 FRAMING DETAILS  
MECHANICAL  
M-0.1 MECHANICAL SPECIFICATIONS  
M-0.2 MECHANICAL SCHEDULES  
M-0.3 MECHANICAL DETAILS  
M-1.0 OVERALL MECHANICAL PLAN  
M-1.1 ENLARGED COMM. BLDG. MECH. PLAN  
PLUMBING  
P-0.1 PLUMBING SPECIFICATIONS  
P-0.2 FIRE SPRINKLER SPECIFICATIONS  
P-1.0 OVERALL PHASE TWO PLUMBING PLAN  
P-1.1 COMMUNITY BLDG. PLUMBING PLAN  
P-2.1 RR & KITCHEN PLUMBING PLANS  
ELECTRICAL  
E-0.1 ELECTRICAL SPECS., DETAILS & LEGENDS  
E-0.2 ELECTRICAL SPECIFICATIONS  
E-1.1 SITE PLAN – ELECTRICAL  
E-2.1 COMMUNITY BUILDING PLAN – LIGHTING  
E-3.1 COMMUNITY BUILDING PLAN – POWER & TEL/DATA/TV  
E-4.1 COMMUNITY BUILDING PLAN – FIRE ALARM, SOUND & SECURITY  
E-5.1 POWER RISER DIAGRAM, DETAILS & SCHEDULES  
E-6.1 ELECTRICAL DETAILS  
E-6.2 COMCHECK LIGHTING REPORTS

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STATE OF GEORGIA  
E. MICHAEL SHACKLEY  
A.I.A.  
REGISTERED PROFESSIONAL ARCHITECT  
EXPIRATION DATE 12/31/2024

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SUNBELT BUILDERS

Client:  
10641 HWY 36 COVINGTON, GA 30014 1 770 786 040

phase two, for construction

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: 06/28/24  
Drwg. Revision: 08/12/24  
Drawn By: B.D.G.  
Checked By: E.M.S.  
File Name: 2023012 Cover

Sheet Title:  
COVER SHEET

Sheet No.:  
2023012B



BUILDING GENERAL NOTES AND SPECIFICATIONS:  
DIVISION 01 - GENERAL

- GENERAL:
- 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.
  - 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 CONTRACTORS 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.

- 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 THE 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.

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

- 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.

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

- 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.

- 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.

- 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.

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

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

INSPECTIONS:

- CONTACT THE COUNTY BUILDING DEPARTMENT AND FIRE MARSHAL'S OFFICES FOR INSPECTION REQUIREMENTS.

DEMOLITION:

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

ACCESSIBILITY REQUIREMENTS:

- 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.

- 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.

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

- SINKS IN BREAKROOMS SHALL COMPLY WITH 120-3-20-35 (23.4.5.1) 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.

- IF SEATING SPACES FOR PEOPLE IN WHEELCHAIRS ARE PROVIDED AT FIXED TABLES OR COUNTERS, THEN CLEAR FLOOR SPACE COMPLYING WITH RULE 120-3-20-35(4) (30"x48") SHALL BE PROVIDED PER THE GEORGIA ACCESSIBILITY CODE. CLEAR FLOOR SPACE SHALL NOT OVERLAP KNEE SPACE BY MORE THAN 18 INCHES.

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

- CURB RAMPS SHALL HAVE A DETECTABLE WARNING COMPLYING W/ RULE 120-3-20-40. DETECTABLE WARNING TEXTURES SHALL CONSIST OF TRUNCATED CONES, EXPOSED AGGREGATE CONCRETE, CUSHIONED SURFACES MADE OF RUBBER OR PLASTIC, FOR RAISED SURFACE, THE DETECTABLE WARNING SHALL EXTEND THE FULL WIDTH 4' DEPTH OF THE CURB RAMP INCLUDING SITE. RULE 120-3-20-18(1).

- 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.

- NEWLY HUNG, OR REHUNG ACCESSIBLE PASSAGE DOORS IN EXISTING SPACES AT ENTRY OR INSIDE ENTRY SHALL BE PROVIDED WITH HANDICAP OPENING DEVICES, HANDLES, FULLS, 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 GRASP. LEVER-OPERATED MECHANISMS, PUSH-TYPE MECHANISMS AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. RULE 120-3-20-24 (9) SHALL APPLY.

SIGNAGE:

- 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).

- 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:

- OBJECTS PROTRUDING FROM WALLS, FREESTANDING, OVERHEAD, OVERHANGING OBJECTS AND OBJECTS MOUNTED ON POSTS AND PYLONS INSTALLED WITH LEADING EDGES BETWEEN 21 IN. AND 68 IN. ABOVE THE FINISHED FLOOR SHALL PROTRUDE NO MORE THAN 1/2 IN. TO WALLS, HALLS, CORRIDORS, PASSAGEWAYS OR AISLES. OBJECTS MOUNTED WITH THEIR LEADING EDGES AT OR BELOW 21 IN. ABOVE THE FINISHED FLOOR MAY PROTRUDE ANY AISLES. FREESTANDING OBJECTS MOUNTED ON POSTS OR PYLONS MAY OVERHANG 12 IN. MAXIMUM FROM 21 INTO 80 IN. ABOVE THE GROUND OR FINISH FLOOR. PROTRUDING OBJECTS SHALL NOT REDUCE THE CLEAR WIDTH OF AN ACCESSIBLE ROUTE OR MANEUVERING SPACE.

TOILET AREAS & TOILET ACCESSORIES:

- EACH PUBLIC AND COMMON USE TOILET SHALL BE MADE ACCESSIBLE AND USABLE BY THE PHYSICALLY HANDICAPPED.
- HANDICAP ACCESSIBLE RESTROOMS SHALL HAVE AN UNOBSTRUCTED CLEAR FLOOR SPACE OF 5' DIAMETER CIRCULAR AREA OR "I" SHAPE SPACE CONFORMING TO GEORGIA ACCESSIBILITY CODE RULE 120-3-20-33.

- HANDICAP WATER CLOSET HEIGHT SHALL BE 11 TO 19 IN. MEASURED FROM THE TOP OF THE TOILET SEAT TO THE FLOOR. GEORGIA ACCESSIBILITY CODE RULE 120-3-20-21). 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.

- HANDICAP GRAB BARS ARE TO BE LOCATED AS OUTLINED IN GEORGIA ACCESSIBILITY CODE RULE 120-3-20-31 AND NOT OBSTRUCT THE REQUIRED CLEAR FLOOR AREA. MOUNT AT 33" TO 36" HEIGHT. GRAB BARS SHALL BE MOUNTED TO SUPPORT 250 LBS. PROVIDE BLOCKING AS REQUIRED IN WALLS.

- HANDICAP ACCESSIBLE URINALS SHALL BE WALL HUNG WITH AN ELONGATED RIM AT A MAXIMUM OF 11 IN. ABOVE THE FLOOR AND SHALL EXTEND AT LEAST 14 IN. FROM THE WALL TO THE FRONT EDGE OF THE URINAL. CLEAR FLOOR SPACE OF URINALS. (GEORGIA ACCESSIBILITY CODE RULE 120-3-20-23)

- 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 THE KNEE CLEARANCE OF 9 IN. DEEP, TOE CLEARANCE OF 9 IN. HIGH AND A FLOOR SPACE OF 11 IN. MIN. DEPTH IS ACHIEVED TO 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.

- 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)

- 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).

- 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 14 IN. FROM THE FLOOR. GEORGIA ACCESSIBILITY CODE RULE 120-3-20-30(6)

MEANS OF EGRESS, EXITS, EXIT ACCESS, EMERGENCY EXIT:

- EGRESS DOORS SHALL HAVE A MINIMUM CLEAR OPENING OF 32" AND SHALL BE ACCESSIBLE PER THE FOLLOWING CRITERIA AND GEORGIA ACCESSIBILITY CODE.

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

- 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.

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

- 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 LOCKS ON THE INTERIOR, HOWEVER, SHALL BE TURNED TO THE UNLOCKED POSITION AT 120. THE BUILDING IS OCCUPIED, PER NFPA 101 LIFE SAFETY CODE, CHAPTER 11, SECTION 12.15.3, 2018 EDITION.

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

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

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

- 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.

- 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:

- STAIRS ARE NOT INCLUDED IN THIS PERMIT APPLICATION.
- RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1:12 TO MEET THE REQUIREMENTS SET FORTH BY GEORGIA ACCESSIBILITY CODE RULE 120-3-20-18.
- RAMP HANDRAILS SHALL COMPLY WITH AND SHALL HAVE THE FEATURES DESCRIBED IN GEORGIA ACCESSIBILITY CODE RULE 120-3-20-19.

- 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 120-3-20-31 AND NFPA 101, 122.4.5(1).

- NEW HANDRAILS SHALL BE EXTENDED HORIZONTALLY A MINIMUM OF 12 IN. AT THE REQUIRED HEIGHT AT LANDINGS. SEE NFPA 101, 122.4.5(B).

- NEW HANDRAIL ENDS SHALL BE RETURNED TO WALL. SEE NFPA 101, 122.4.5(B).

- 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 FFA 101, 122.4.5(2).

DIVISION 02 - SITE CONSTRUCTION

- NOT INCLUDED IN PACKAGE PREPARED BY BETA DESIGN GROUP.

DIVISION 03 - CONCRETE

- NOT INCLUDED IN PACKAGE PREPARED BY BETA DESIGN GROUP.

DIVISION 04 - MASONRY

- 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.

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

- UNLESS NOTED OTHERWISE, ALL BRICK SHALL BE JUMBO UTILITY (NOMINALLY 4"x4"x12") TO MATCH EXISTING.

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

- 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 X HEIGHT OF BRICK. OPEN HEAD JOINTS TO BE FITTED WITH TUBE VENTS.

- 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 UET MORTAR.

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

- MORTAR REQUIREMENTS PER ASTM C210:  
A) BRICK, EXTERIOR VENEER, TYPE N, 150 PSI AVERAGE COMPRESSIVE STRENGTH AT 28 DAYS WITH WATER RETENTION OF 15% MINIMUM AND AIR CONTENT OF 14% MAXIMUM.  
B) ANY ADMIXTURES TO THE MORTAR MUST CONFORM TO ASTM C416 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.

- 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 INDENTATIONS: 1/4 IN. IN 20 FT; 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 OF WALLS: MINUS 1/4 IN. PLUS 1/2 IN.

- MOVABLE 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.

II. BRICK TIES:

- A) TWO PIECE ADJUSTABLE TIES WITH A MINIMUM WIRE SIZE OF W11 WITH A DIAMETER OF 0.1483 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.

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

- STRUCTURAL STEEL, STEEL JOISTS, STEEL DECKING

- NOT INCLUDED IN PACKAGE PREPARED BY BETA DESIGN GROUP.

DIVISION 06 - WOOD AND PLASTICS

- ANY WOOD USED (BLOCKING, ETC.) SHALL BE FIRE RETARDANT TREATED.

CABINETS:

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

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

- HANES SHALL BE 1/2" DASHEE, CONCEALED, SELF-CLOSING DOORS.

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

- DRAWER CONSTRUCTION SHALL BE 3/4" MELAMINE SIDES, BACK AND SUB FRONT. DRAWER BOTTOM SHALL BE 1/4" VINYL COATED PLYWOOD.
- DRAWER SLIDES, IF REQUIRED, SHALL BE BOTTOM MOUNTED, EPOXY COATED WITH 100 LB. STATIC LOAD CAPACITY.

- EXPOSED AND SEMI-EXPOSED CABINET EDGES SHALL BE Banded WITH 5MM PVC IN A COMPLEMENTARY COLOR TO MATCH LAMINATE.
- TOE KICKS SHALL BE CONSTRUCTED OF EXTERIOR GRADE PLYWOOD.

DIVISION 07 - THERMAL & MOISTURE PROTECTION

INSULATION:

- 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.

- 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.

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

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

- ROOF INSULATION SHALL BE OF A TYPE APPROVED BY THE ROOF MANUFACTURER FOR THIS TYPE OF INSTALLATION. ROOF INSULATION SHALL COMPLY WITH R1 4450 OR UL 1296 AND SHALL HAVE A MINIMUM LTRR VALUE OF 25.

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

FLASHING & ACCESSORIES:

- SHEET METAL FLASHINGS SHALL BE FABRICATED FROM 26 GAUGE GALVANIZED STEEL.
- ALL HEADS OF EXPOSED EXTERIOR FASTENERS SHALL BE 300 SERIES STAINLESS, NYLON, PAINTED OR CAST ZINC/ALUMINUM TO PREVENT STAINING OF BUILDING SURFACES.

SEALANTS:

- ALL SEALANT PRODUCTS SHALL BE VALIDATED BY THE SEALANT, WATERPROOFING AND RESTORATION INSTITUTE AND COMPLY WITH ASTM C920 AND C1589.

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

- 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.

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

- FIRESTOP COMPOUNDS FOR JOINT SYSTEMS BETWEEN FIRE-RESISTANCE RATED WALLS OR FLOOR/CEILING ASSEMBLIES SHALL BE LISTED AND TESTED UNDER UL 2019 OR ASTM E1596 - TEST STANDARD FOR FIRE-RESTIVE JOINT SYSTEMS, FOR WALL OR CEILING PENETRATIONS, THE FIRESTOP MATERIAL MUST CARRY A UL 1419 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 RATING OF THE WALL, FLOOR OR ROOF IN OR BETWEEN WHICH THE SYSTEM IS INSTALLED.

VAPOR BARRIER:

- 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:

- THE 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:

- 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."

- VERTICAL ACTING SECTIONAL STEEL INSULATED DOORS SHALL BE 24 GAUGE 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.

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

- MAXIMUM ALLOWABLE AIR INFILTRATION RATES FOR ALL EXTERIOR DOORS AND WINDOWS SHALL BE AS FOLLOWS:  
A) DOORS - 125 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.

- 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 100-91, TO BE VERIFIED BY THE INSPECTOR.

- EXTERIOR GLASS DOORS SHALL HAVE A SHGC RATING NOT TO EXCEED .40 DETERMINED IN ACCORDANCE WITH THE NATIONAL FENESTRATION RATING COUNCIL PER NFRC 200-91.

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

HARDWARE:

- 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.

- 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.

- SWING AND FORCE TO OPEN DOORS SHALL MEET THE REQUIREMENTS OF THE NFPA 101 LIFE SAFETY CODE, CHAPTER 1, SECTION 12.14, 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 SITE.

- SELF CLOSING DEVICES SHALL MEET THE REQUIREMENTS OF THE NFPA 101 LIFE SAFETY CODE, CHAPTER 1, SECTION 12.14, 2018 EDITION.

- FINISH HARDWARE TO BE BRUSHED CHROME FINISH OF MEDIUM INDUSTRIAL GRADE. CONTRACTOR SHALL SUBMIT FINISH HARDWARE SCHEDULE FOR OWNER'S REVIEW AND APPROVAL. PROVIDE MEDIUM DUTY CLOSERS ON ALL EXTERIOR PERSONNEL, MULTI-USER TOILET AND FIRE RATED DOORS.

GLAZING:

- ALL GLASS IN ENTRANCE DOORS SHALL BE TEMPERED.

- EXTERIOR GLASS SHALL BE ONE INCH THICK SOLAR BRONZE INSULATED GLASS WITH LOW-E COATING ON SURFACE NO. 3, MAXIMUM WATER VAPOR VALUE NOT TO EXCEED 35 (R-1.85 MIN.), UNLESS NOTED OTHERWISE.

- EXTERIOR GLASS SHALL HAVE A SHGC RATING NOT TO EXCEED .35.

- ALUMINUM FRAMES SHALL BE BRONZE ANODIZED ALUMINUM. SYSTEM SHALL BE CAPABLE OF WITHSTANDING UNIFORM PRESSURE OF 20 PSF INWARD AND 20 PSF OUTWARD.

- PROVIDE SAFETY GLASS AS REQUIRED BY SECTION 2406 OF 2018 INTERNATIONAL BUILDING CODE. AT LOCATIONS WHERE GLASS IS WITHIN 18" OF FLOOR, PROVIDE 1/2" WIDE CONTINUOUS GUARDRAIL TO WINDOW FRAMES. COLOR TO MATCH ALUMINUM FRAMING AND CENTERLINE OF BAR TO BE 36" AFF. GUARDRAIL TO WITHSTAND 50 PLF WITHOUT CONTACTING GLASS.

DIVISION 09 - FINISHES

- PROVIDE ACOUSTICAL CEILING SUSPENSION SYSTEM AND ACOUSTICAL TILE AS NOTED ON FINISH SCHEDULES.

- TYPICAL CEILING TILES SHALL BE ARMSTRONG CORTEGA 816 WHITE, 2' X 2' ANGLED REGULAR TILE UNLESS NOTED OTHERWISE ON FINISH SCHEDULE.

- CEILING TILES IN KITCHEN AREA TO BE ARMSTRONG KITCH



(ORDINARY HAZARD, 2 X 1500 SF.) 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 5'4" AND NOT LESS THAN 4'8" 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 THAN 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, AND 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 (E.G., 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 APPROPRIATE 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 1419 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 0-15 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 ONLY 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 INTERPRETATIONS BY THE ENFORCING AGENCY.

2. FIRE SPRINKLER CONTRACTOR SHALL OBTAIN A SEPARATE PERMIT FROM THE CITY FIRE MARSHAL'S OFFICE PRIOR 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, 2018 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 120-3-20-33, NFPA 12, 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.

# BRAVO BLDG SET

## 04-21-2025

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**Beta Design Group, Inc.**  
Architecture  
2118 Rosser Place  
Stone Mountain, GA. 30087  
Phone: 770 491 9250  
Email: mikes@betadesigngroup.com

**SUNBELT**  
BUILDERS  
10841 HWY 6 COVINGTON, LA 70456  
014 1 770 788 0 1 770 788 046

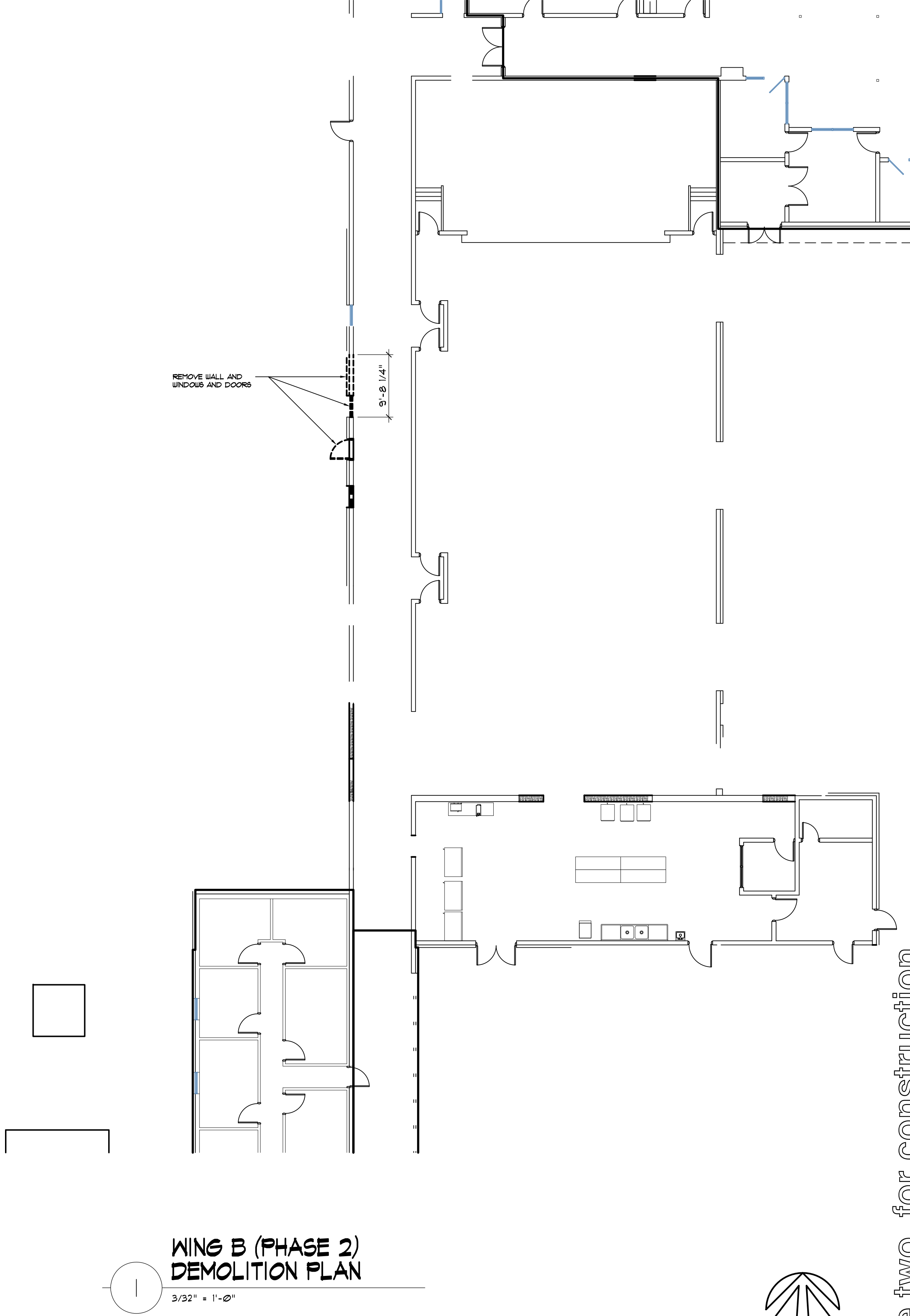
Client:  
R. L. COUSINS COMMUNITY CENTER  
NEWTON CO. BOC RFP #24-04  
8134 GEIGER STREET, N.W.  
COVINGTON, GEORGIA

Project:  
Revision:  
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-0.4  
Sheet Title:  
**GEN. NOTES & SPECS.**  
Sheet No.:  
**A-0.4**

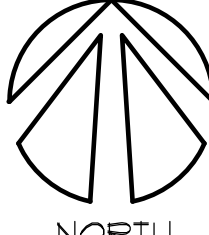
phase one, for construction



BRAVO BLDG SET 04-21-2025



## phase two, for construction



# WING B (PHASE 2) DEMOLITION PLAN

$$3/32'' = 1'-\emptyset'$$
[illegible]

Project No.: 2023012  
Drwg. Date: 06/28/24  
Drwg. Revision:  
Drawn By: B.D.G.  
Checked By: E.M.S.  
File Name: 2023012A-1.0.4

Sheet Title:  
**WING B**  
**DEMO. PLAN**

Sheet No.:  
**A-1.0.4**

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

Client: **SUNBEL** B U I L D E R S <sup>TM</sup>

***Beta Design Group, Inc.***

---

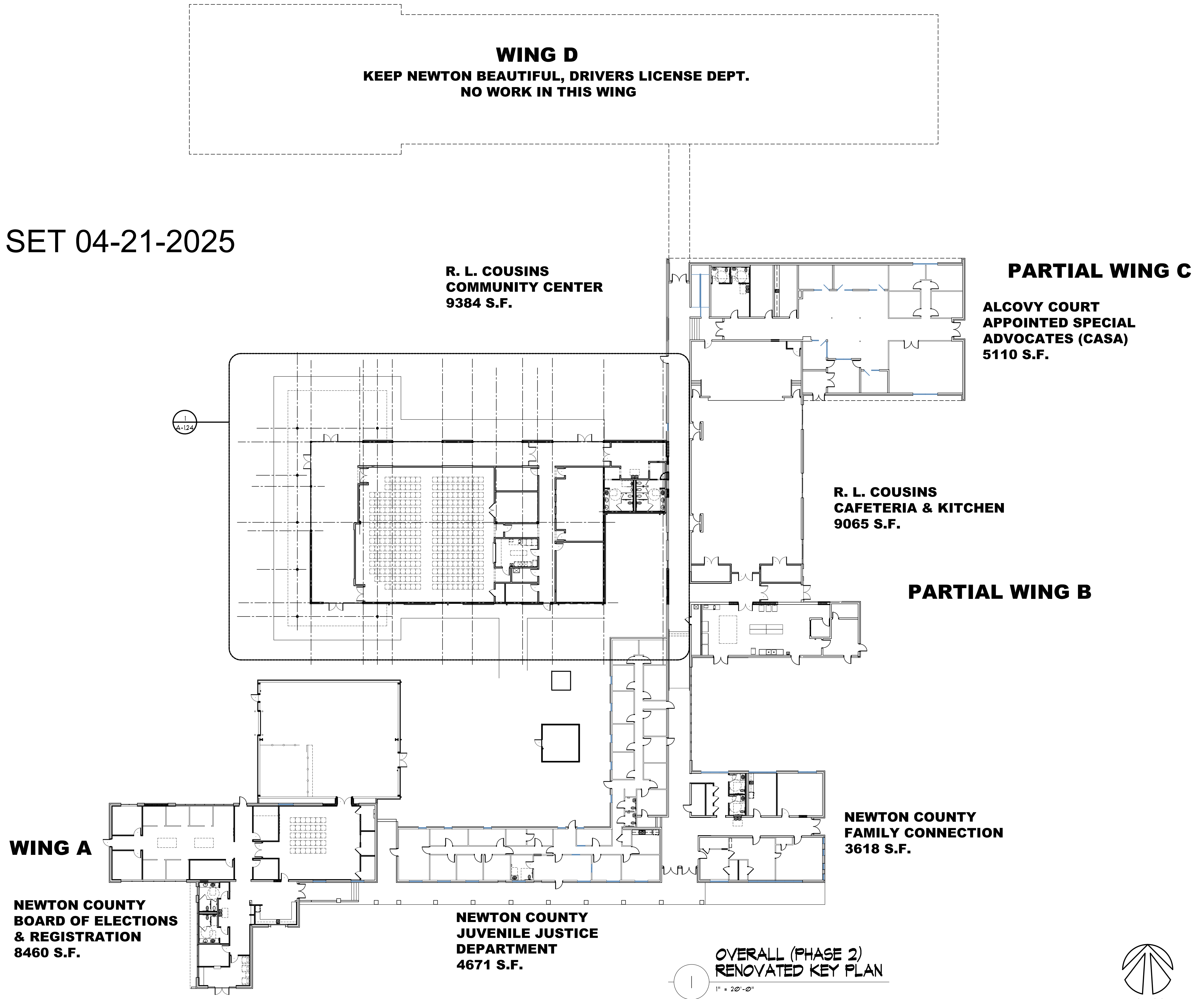
**Architecture**

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Phone: 770 491 9250  
Email: [mikes@betadesigngroup.com](mailto:mikes@betadesigngroup.com)





BRAVO BLDG SET 04-21-2025



phase two, for construction

STATE OF GEORGIA  
E. Michael Shockey  
06/28/2024  
REGISTERED PROFESSIONAL ARCHITECT

**Beta Design Group, Inc.**  
Architecture  
2118 Rosser Place  
Stone Mountain, GA 30087  
Phone: 770 491 9250  
Email: mikes@betadesigngroup.com

**SUNBELT**  
BUILDERS™  
10641 HWY 6 COVINGTON, LA 70414 1-770-788-0177 7/0/88 046

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

Issue	Date	Initial	Drwg.	Revision	Description

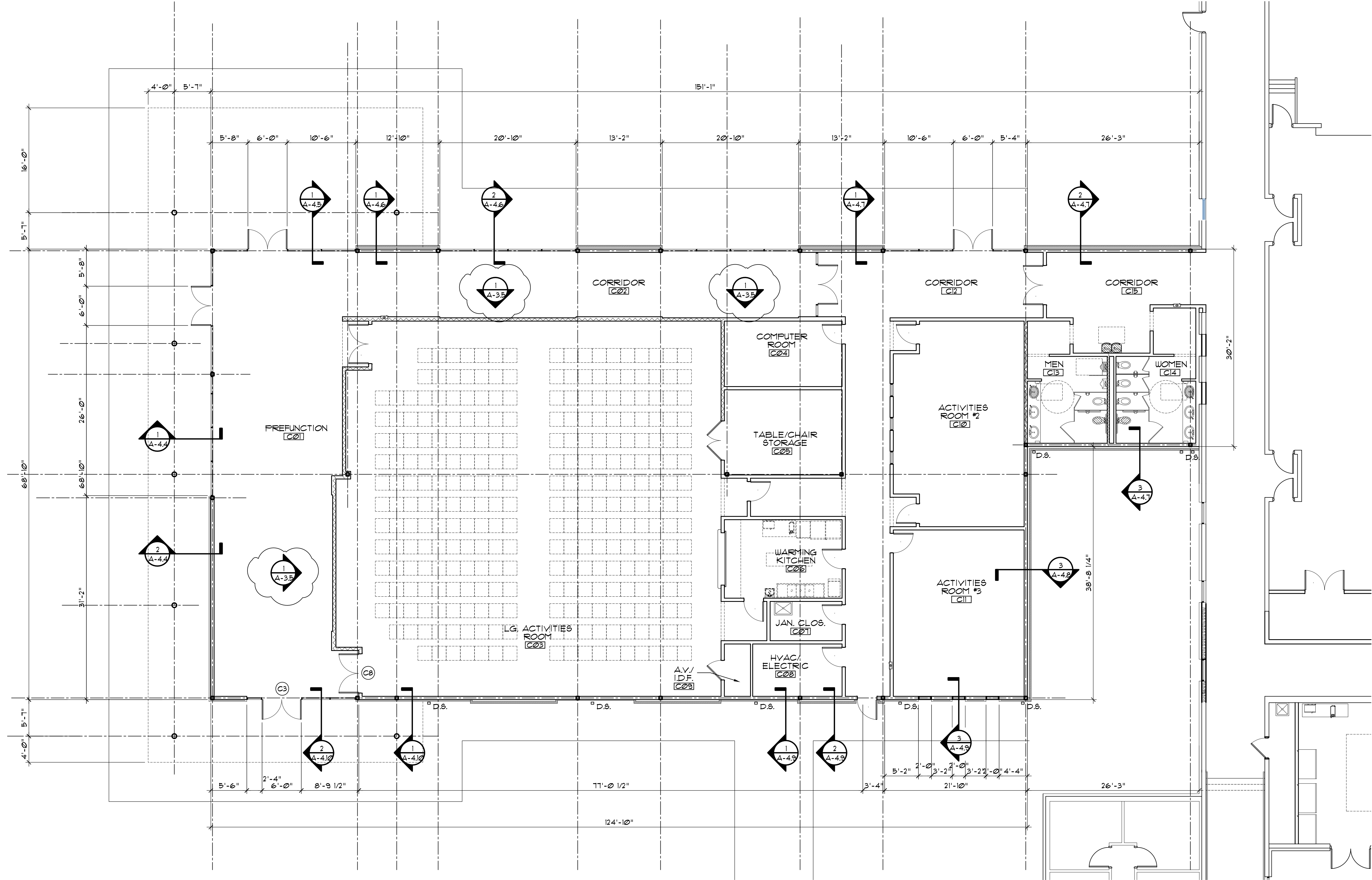
Project No.: 2023012  
Drwg. Date: 06/28/24  
Drwg. Revision:  
Drawn By: B.D.G.  
Checked By: E.M.S.  
File Name: 2023012 A-1.2

Sheet Title:  
**OVERALL RENOV.  
KEY PLAN**

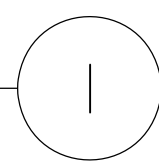
Sheet No.:  
**A-1.2**

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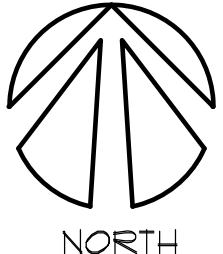
# BRAVO BLDG SET 04-21-2025



ENLARGED FLOOR PLAN

1/8" = 1'-0"

SEE SHEET A-12.5 FOR INTERIOR CONSTRUCTION DETAILS



NORTH

phase two, for construction

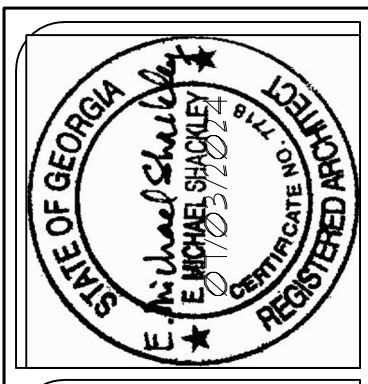
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Project No.: 2023012	Issue Date: 07/11/24	Issue Date: 07/11/24
Drwg. Date: 06/28/24	E.M.S. 1: DRWG. COORD. W/ CONTR.	
Drwg. Revision: 07/11/24		
Drawn By: B.D.G.		
Checked By: E.M.S.		
File Name: 2023012A-1.2.4		

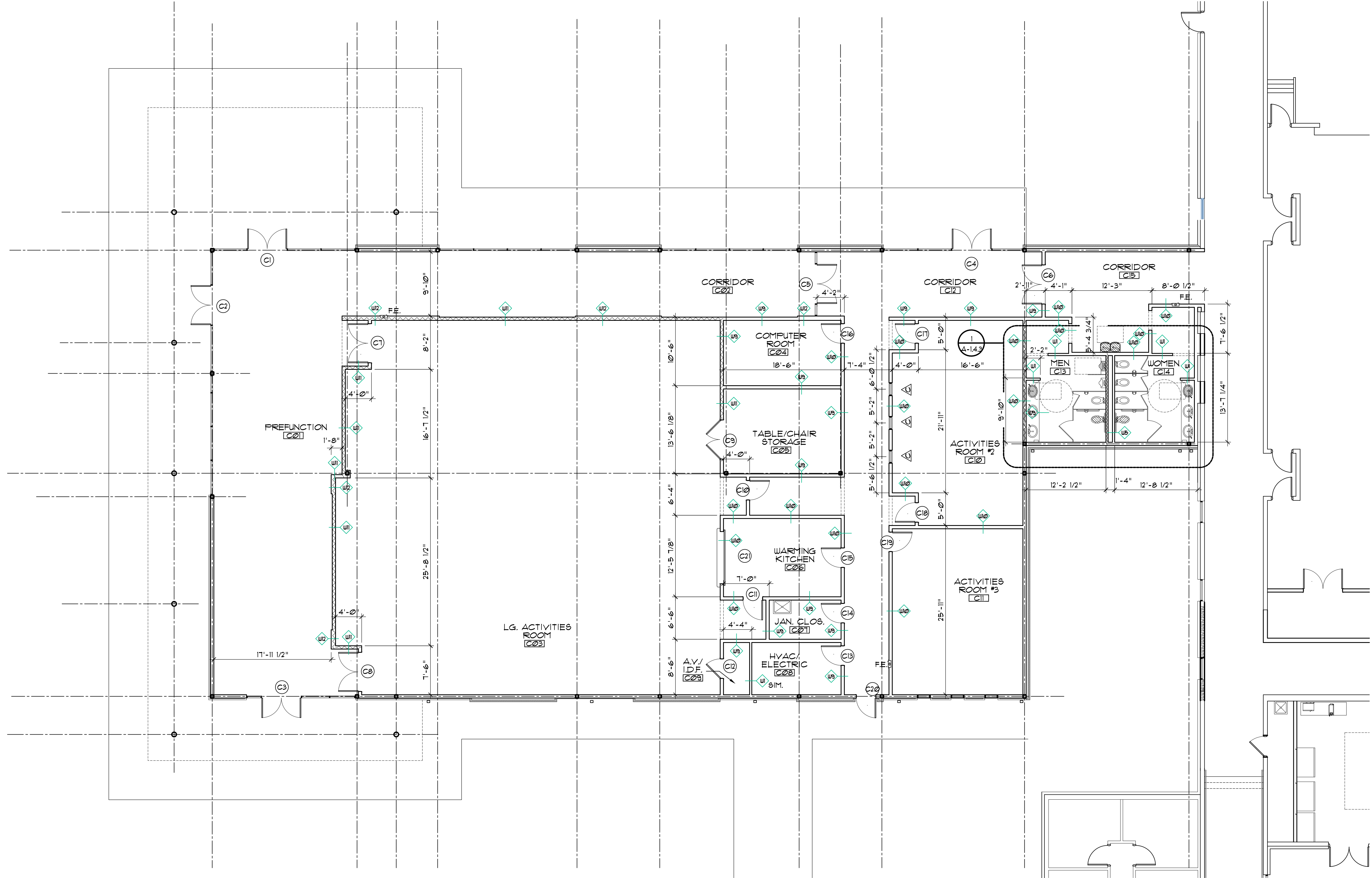
Project:  
**R. L. COUSINS COMMUNITY CENTER**  
NEWTON CO. BOC RFP #24-04  
8134 GEIGER STREET, N.W.  
COVINGTON, GEORGIA

Client:  
**SUNBELT**  
BUILDERS  
10641 HWY 6 COVINGTON, LA 70411 504.770.788 0 1 770.788.046

Architecture  
**Beta Design Group, Inc.**  
2118 Rosser Place  
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Email: mikes@betadesigngroup.com

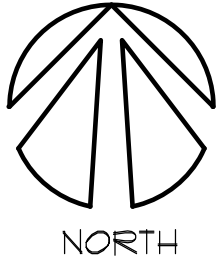






BRAVO BLDG SET 04-21-2025

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



phase two, for construction

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Project No.: 2023012
Drwg. Date: 06/28/24
Drwg. Revision:
Drawn By: B.D.G.
Checked By: E.M.S.
File Name: 2023012A-1.2.5

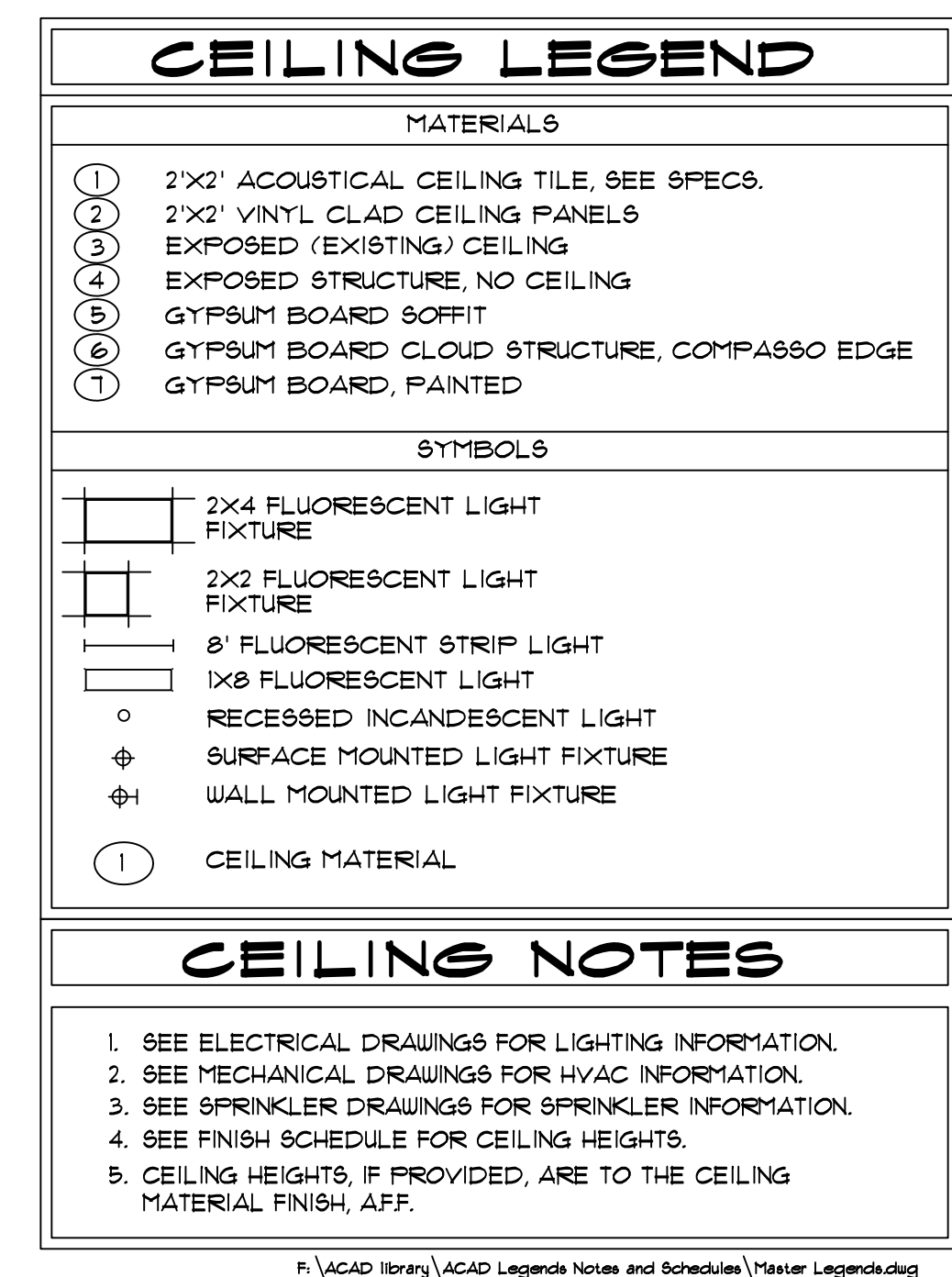
Project:  
**R. L. COUSINS COMMUNITY CENTER**  
NEWTON CO. BOC RFP #24-04  
8134 GEIGER STREET, N.W.  
COVINGTON, GEORGIA

Client:  
**SUNBELT**  
BUILDERS™  
10841 HWY 6 COVINGTON, LA 70038  
0 1 770 886 046

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Email: mikes@betadesigngroup.com







## COMMUNITY CENTER REFLECTED CEILING PLAN

$$\frac{1}{8}'' = 1'-0''$$

BRAVO BLDG SET 04-21-2025

## phase one, for construction



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Architecture

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Email: [mikes@betadesigngroup.com](mailto:mikes@betadesigngroup.com)

Client: **SINCE 1983**

10641 HWY 6 COVINGTON GA 0014 1 770 786 0 1 770 786 046

Client:

Project: R. L. COUSINS COMMUNITY CENTER  
NEWTON CO. BOC RFP #24-04

8134 GEIGER STREET, N.W.  
COVINGTON, GEORGIA

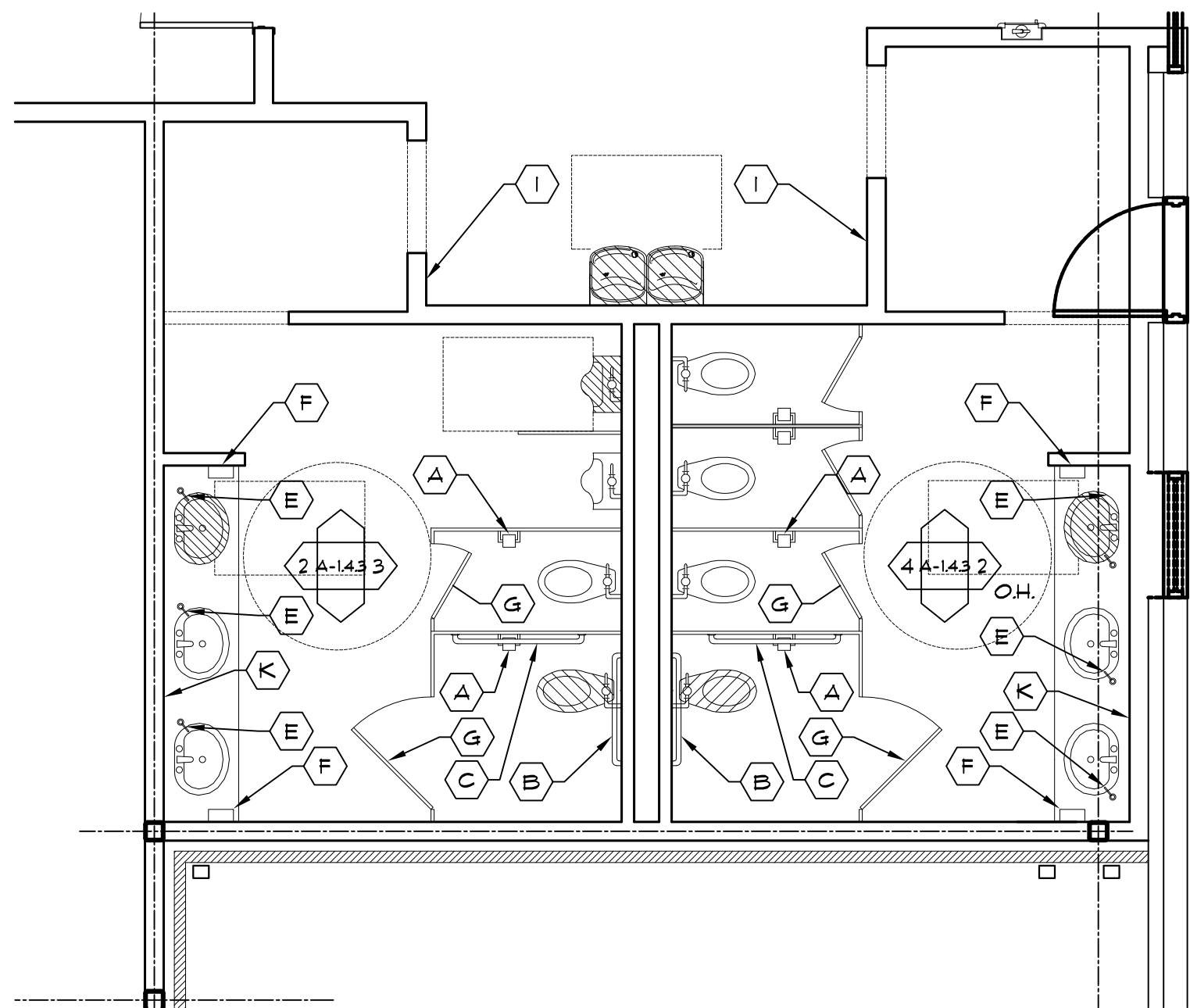
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Project No.: 2023012  
 Drwg. Date: 06/28/24  
 Drwg. Revision:  
 Drawn By: B.D.G.  
 Checked By: E.M.S.  
 File Name: 2023012 A-1.3.4

Sheet Title:  
**REFL. CLNG.  
PLAN**

Sheet No.:  
**A-1.3.4**

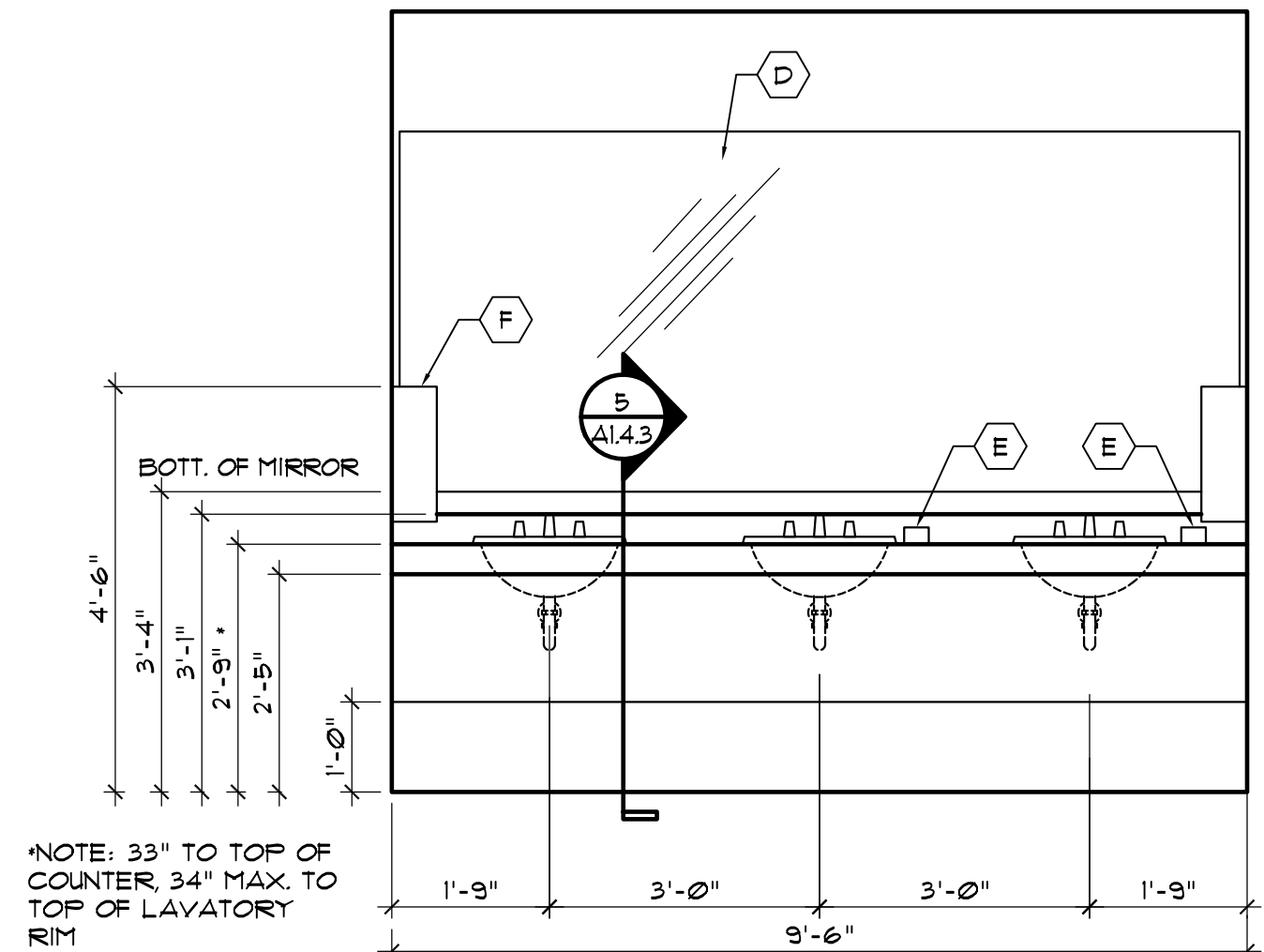




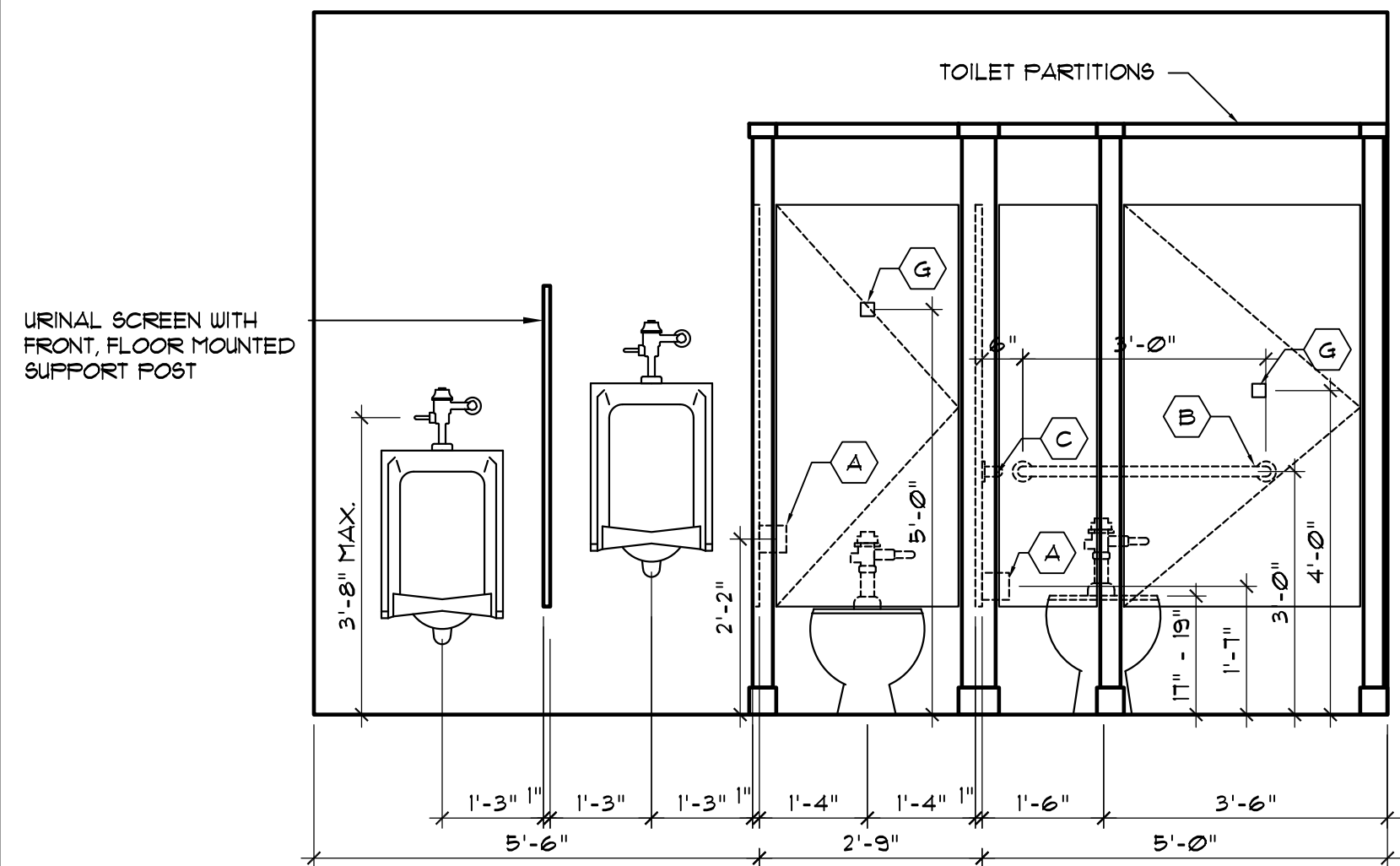
1 ENLARGED TOILET PLAN  
1/8" = 1'-0"

TOILET ACCESSORIES		
MARK	DESCRIPTION	MODEL NO.
(A)	TOILET PAPER HOLDER, DBL.	ASI #30030
(B)	36" GRAB BAR, 1 1/2" DIA.	ASI 3100 SERIES
(C)	42" GRAB BAR, 1 1/2" DIA.	ASI 3100 SERIES
(D)	MIRROR, 6.5" CHANNEL FRAME, 18 X 36	ASI 0620-1836
(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 #0341
(K)	MIRROR, FULL LENGTH OF VANITY	-

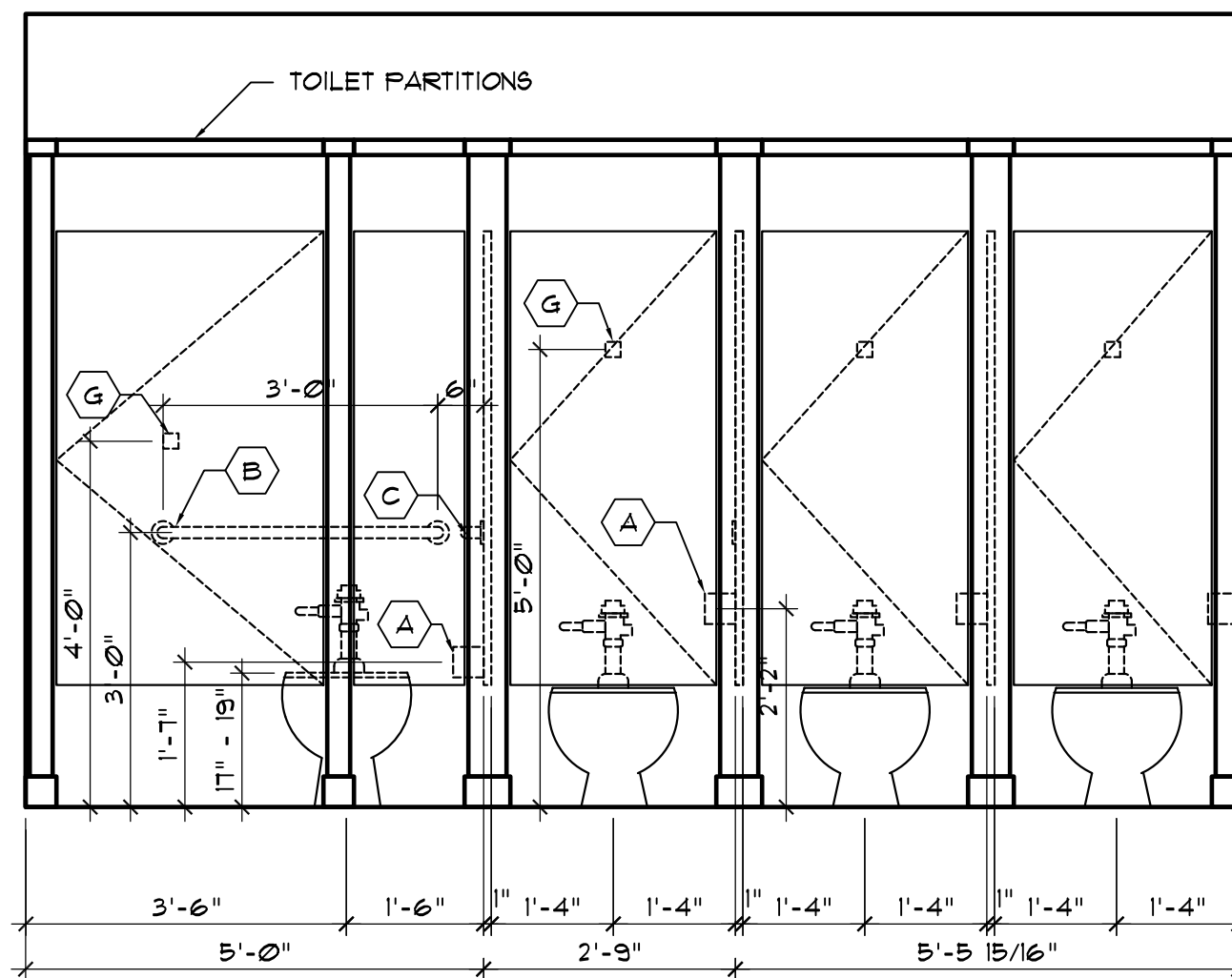
BRAVO BLDG SET 04-21-2025



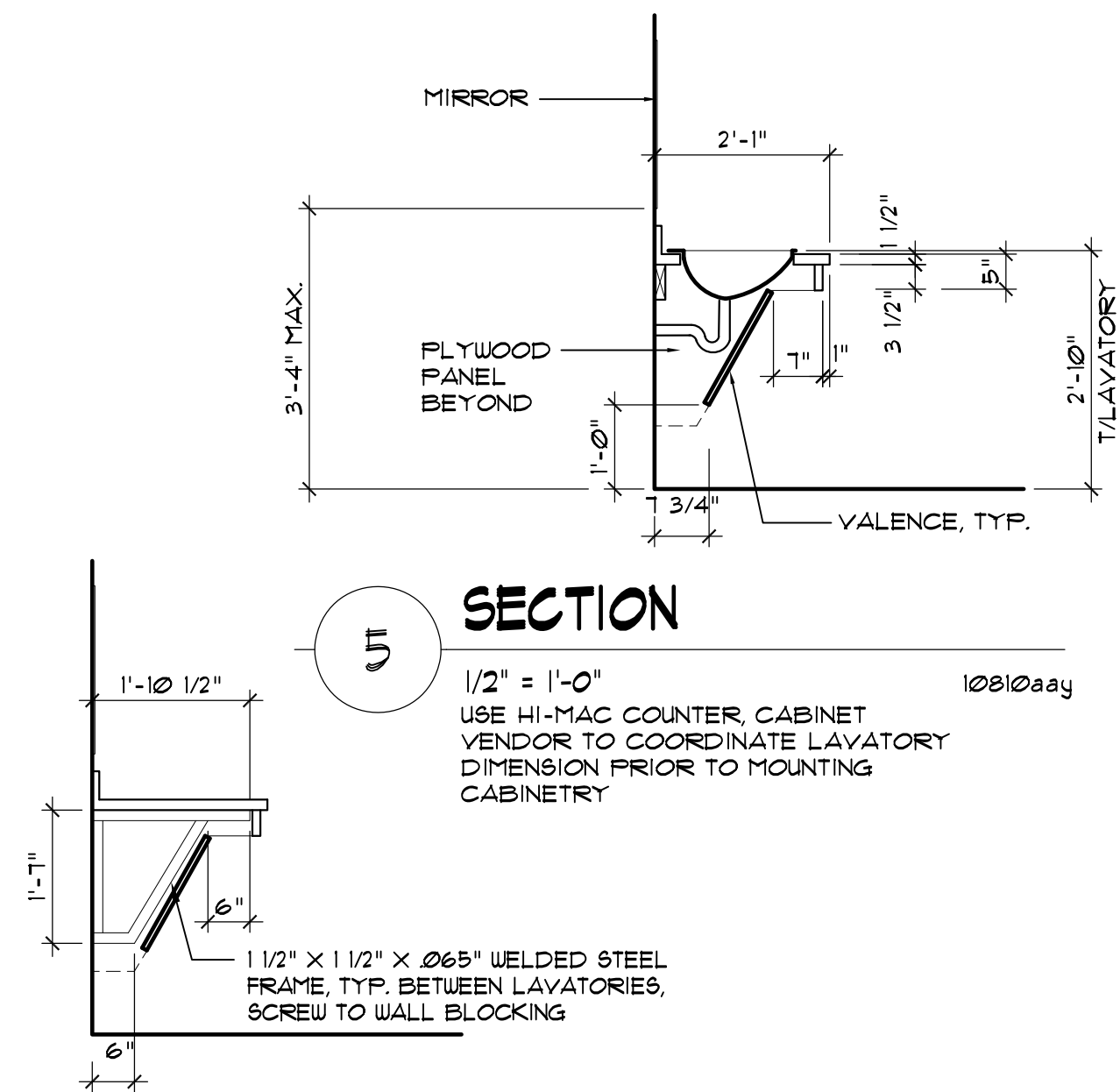
2 TOILET ELEVATION  
1/2" = 1'-0"  
10810aac



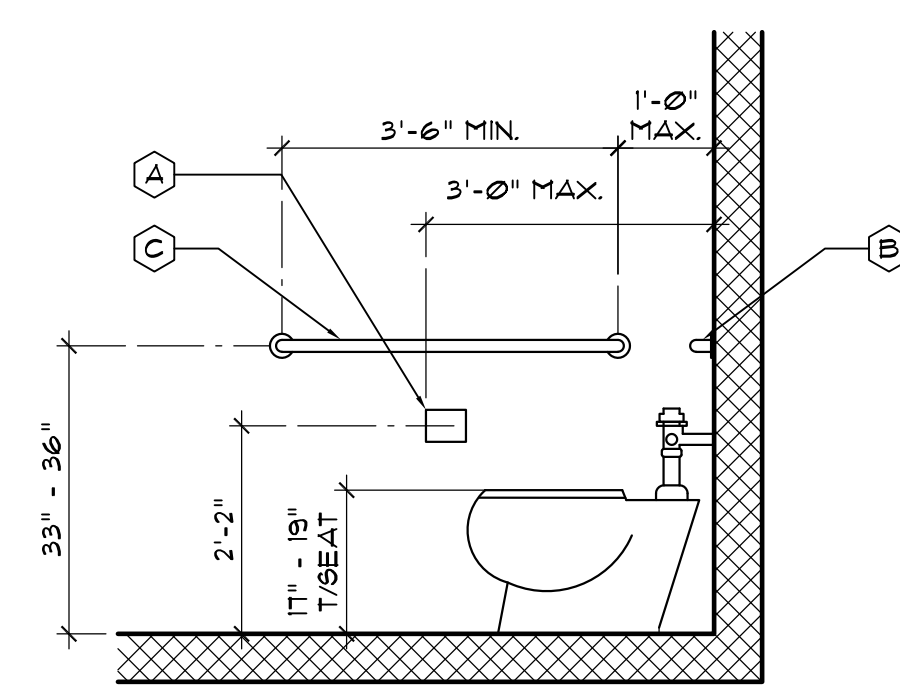
3 TOILET ELEVATION  
1/2" = 1'-0"  
10810aac



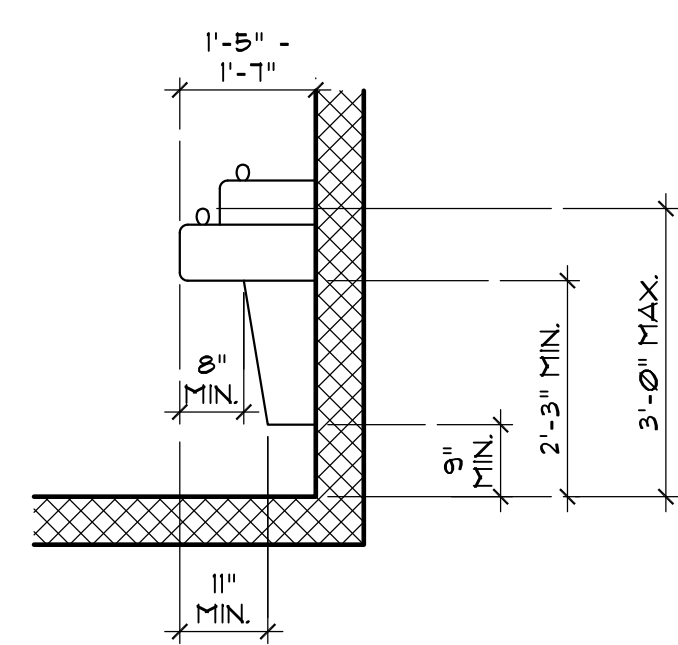
4 TOILET ELEVATION  
1/2" = 1'-0"  
10810aac



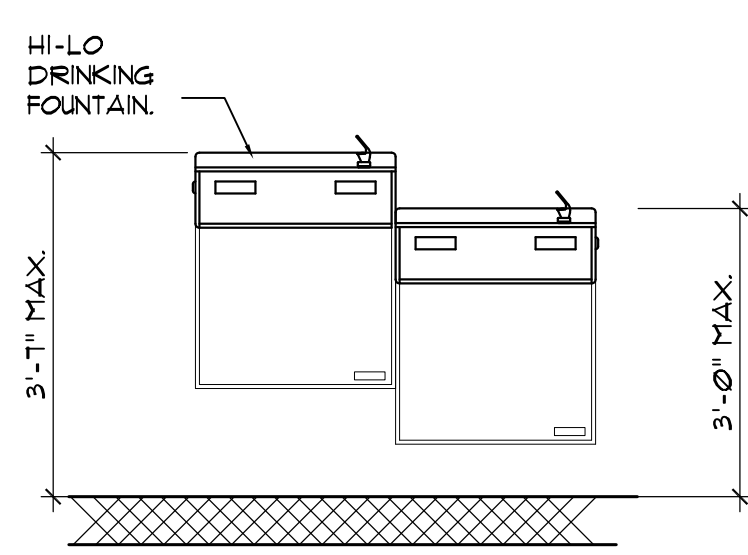
5a SECTION  
1/2" = 1'-0"  
10810aac



6 H.C. WATER CLOSET  
1/2" = 1'-0"  
10810aac



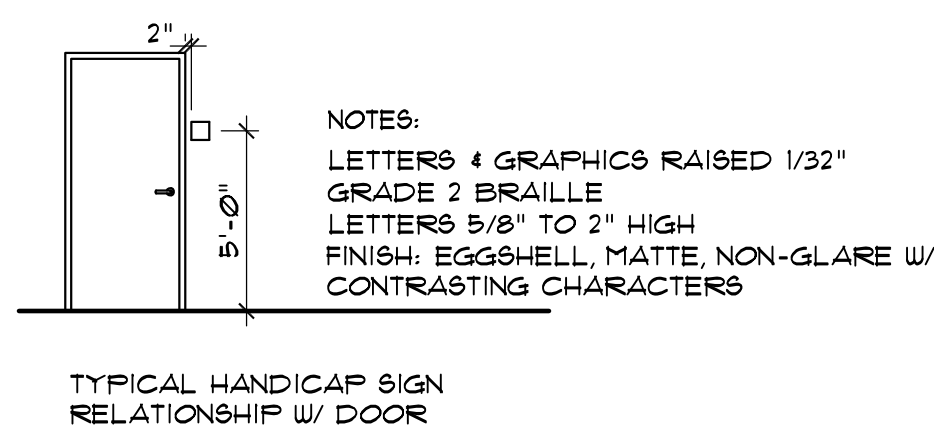
7 E.W.C. CLEARANCES  
1/2" = 1'-0"  
15412aaa



8 E.W.C. ELEVATION  
1/2" = 1'-0"  
15412aaa



9 A.D.A. ACCESSIBLE TOILET SIGN DETAIL  
1/2" = 1'-0"  
10440aac



phase two, for construction

STATE OF GEORGIA  
E. MICHAEL SHIPLEY  
REGISTERED PROFESSIONAL ARCHITECT  
06218702

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**SUNBELT**  
BUILDERS  
10641 HWY 6 COVINGTON, LA 70424 1-770-788-0170

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

Project No.: 2023012  
Drwg. Date: 06/28/24  
Drwg. Revision:  
Drawn By: B.D.G.  
Checked By: E.M.S.  
File Name: 2023012A-1.4.3

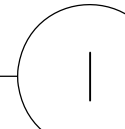
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**ENLARGED TOILET PLANS**

Sheet No.:  
**A-1.4.3**

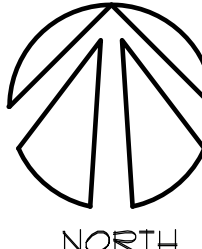
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BRAVO BLDG SET 04-21-2025



## ROOF PLAN

$$1/8'' = 1'-0$$


NORTH

## phase two, for construction

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Issue Date:				Project No.: 2023012
Issue Date:				Drwg. Date: 06/28/24
Issue Date:				Drwg. Revision:
Issue Date:				Drawn By: B.D.G.
Issue Date:				Checked By: E.M.S.
Issue Date:				File Name: 2023012_1

Project No.: 2023012  
Drwg. Date: 06/28/24  
Drwg. Revision:  
Drawn By: B.D.G.  
Checked By: E.M.S.  
File Name: 20230124-1

Sheet Title:  
**ROOF  
PLAN**

Sheet No.:  
**A-1.5**

Client:

R. L. COUSINS COMMUNITY CENTER

NEWTON CO. BOC RFP #24-04

3134 GEIGER STREET, N.W.

COVINGTON, GEORGIA

התאחדות המורים

0641 HWY 6 COVINGTON GA 0014 770 786 0 1 770 786 046

**Beta Design Group, Inc.**

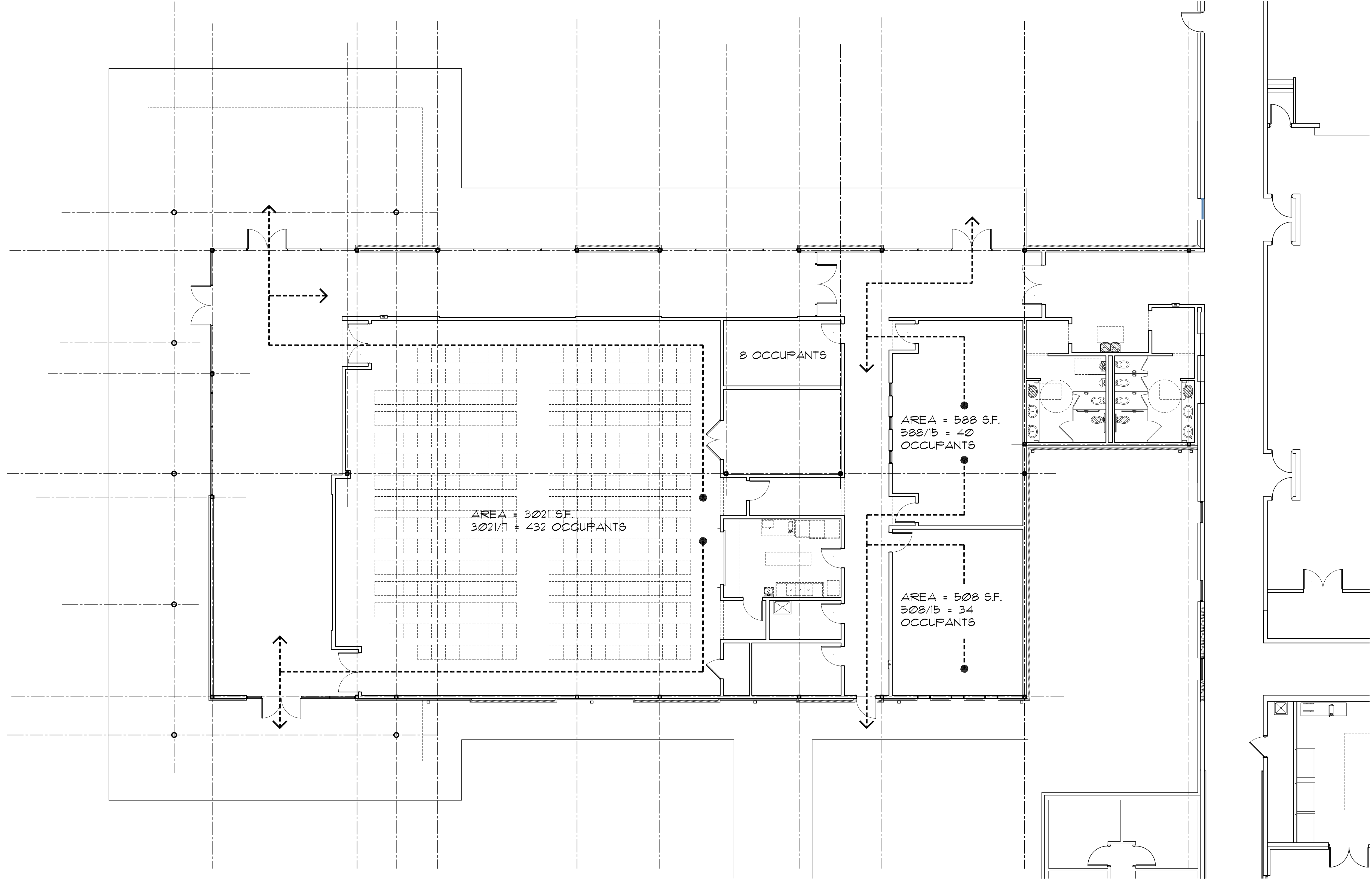
Architecture

2118 Rosser Place Stone Mountain, GA. 30087

Phone: 770 491 9250  
Email: [mikec@betadecisiongroup.com](mailto:mikec@betadecisiongroup.com)







BRAVO BLDG SET 04-21-2025

LIFE SAFETY PLAN  
1/8" = 1'-0"



phase two, for construction

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Issue	Date	Initial	Drawn	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: 2023012A-1.5.2

Sheet Title:  
**LIFE SAFETY PLAN**

Sheet No.:  
**A-1.5.2**

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

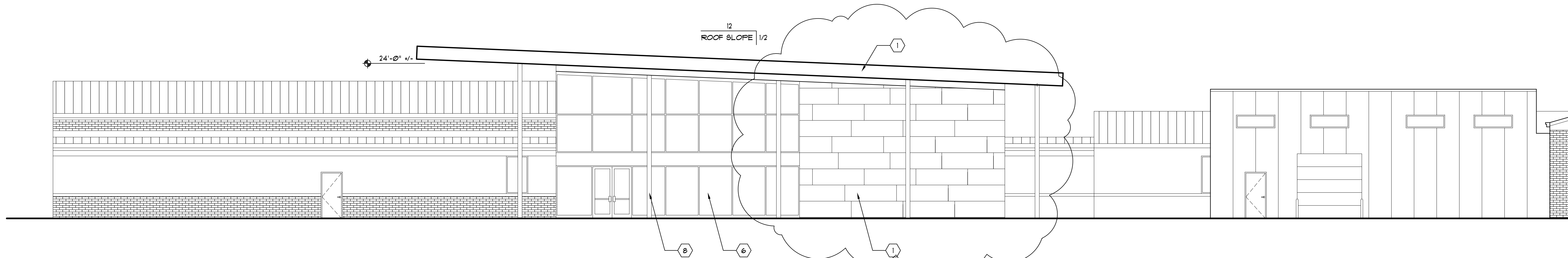
**SUNBELT**  
BUILDERS

10641 HWY 6 COVINGTON, LA 70434 1-770-886-0170 1-770-886-0408

**Beta Design Group, Inc.**  
Architecture  
2118 Rosser Place  
Stone Mountain, GA 30087  
Phone: 770 491 9250  
Email: mikes@betadesigngroup.com

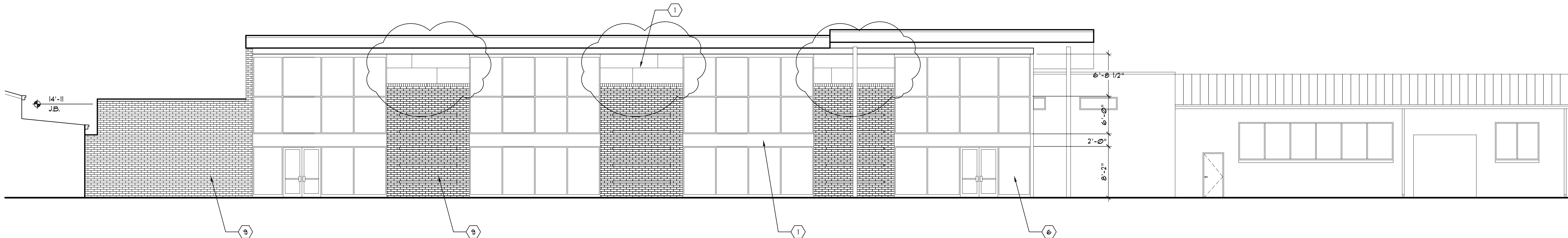
STATE OF GEORGIA  
E. Michael Shockey  
08/12/24  
REGISTERED PROFESSIONAL ARCHITECT





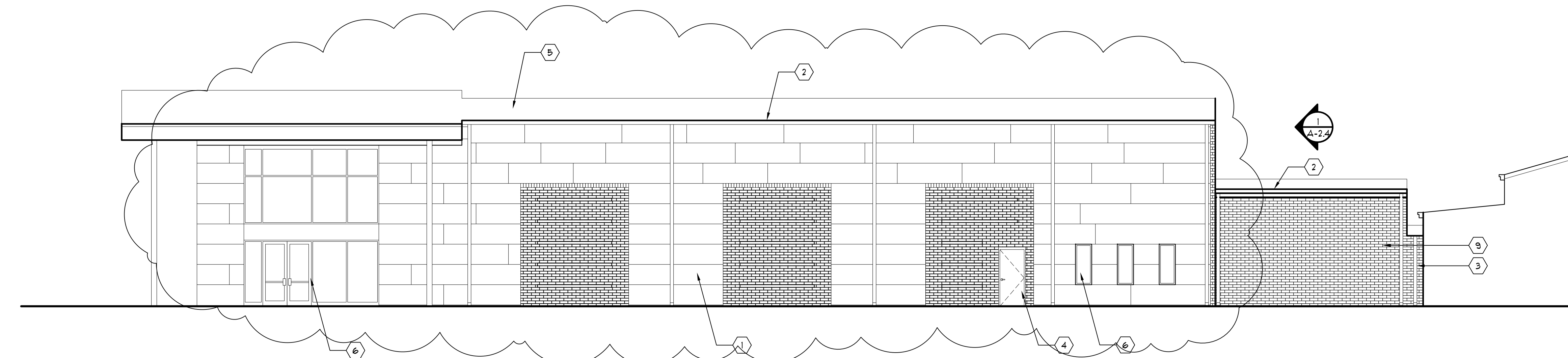
1 FRONT (WEST) ELEVATION

1/8" = 1'-0"



2 LEFT SIDE (NORTH) ELEVATION

1/8" = 1'-0"



3 RIGHT SIDE (SOUTH) ELEVATION

1/8" = 1'-0"

ELEVATION MATERIAL LEGEND	
#	DESCRIPTION
1	ACM WALL PANELS, 30" WIDE, 3 COLORS, TO BE DETERMINED
2	24 GA. 6" PREFINISHED METAL GUTTER, COMPLIMENT WALL COLOR
3	24 GA. 4" X 5" PAINTED METAL DOWNSPOUT, COMPLIMENT WALL COLOR
4	PAINTED HM. DOOR & FRAME W/ 4" CONCRETE PAD
5	SLOPED TPO ROOF
6	INSULATED GLASS IN ALUM. FRAMES, SEE SPECS.
7	26 GA. PREFINISHED METAL COPING, COOR. W/ PANEL COLOR
8	PAINTED STEEL COLUMN
9	BRICK VENEER

BRAVO BLDG SET 04-21-2025

phase two, for construction

STATE OF GEORGIA  
E. Michael S. Shockey  
REGISTERED PROFESSIONAL ARCHITECT  
07/11/24

Beta Design Group, Inc.

Architecture

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Stone Mountain, GA. 30087  
Phone: 770 491 9250  
Email: mikes@betadesigngroup.com

SUNBELT  
BUILDERS

10641 HWY 6 COVINGTON, LA 70450 014 1 770 788 0 1 770 788 048

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

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

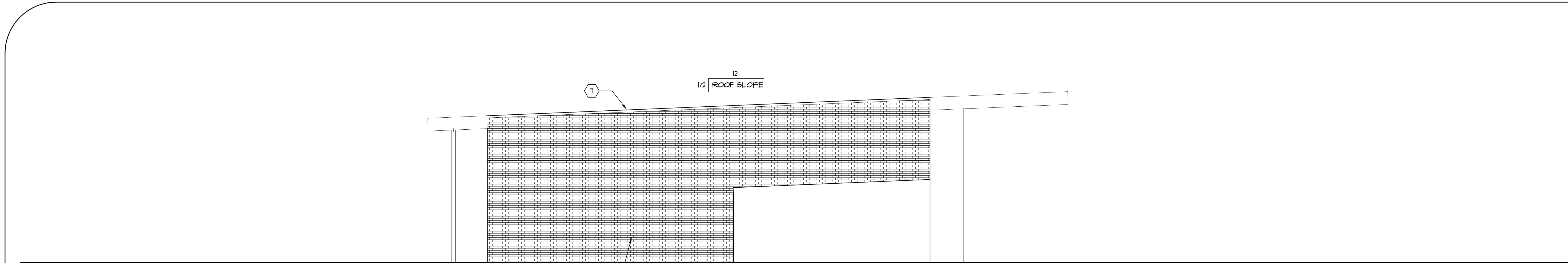
Issue Date: 07/11/24  
E.M.S. 1. DRWG. COORD. W/ CONTR.

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-2.2

Sheet Title:  
BUILDING  
ELEVATIONS

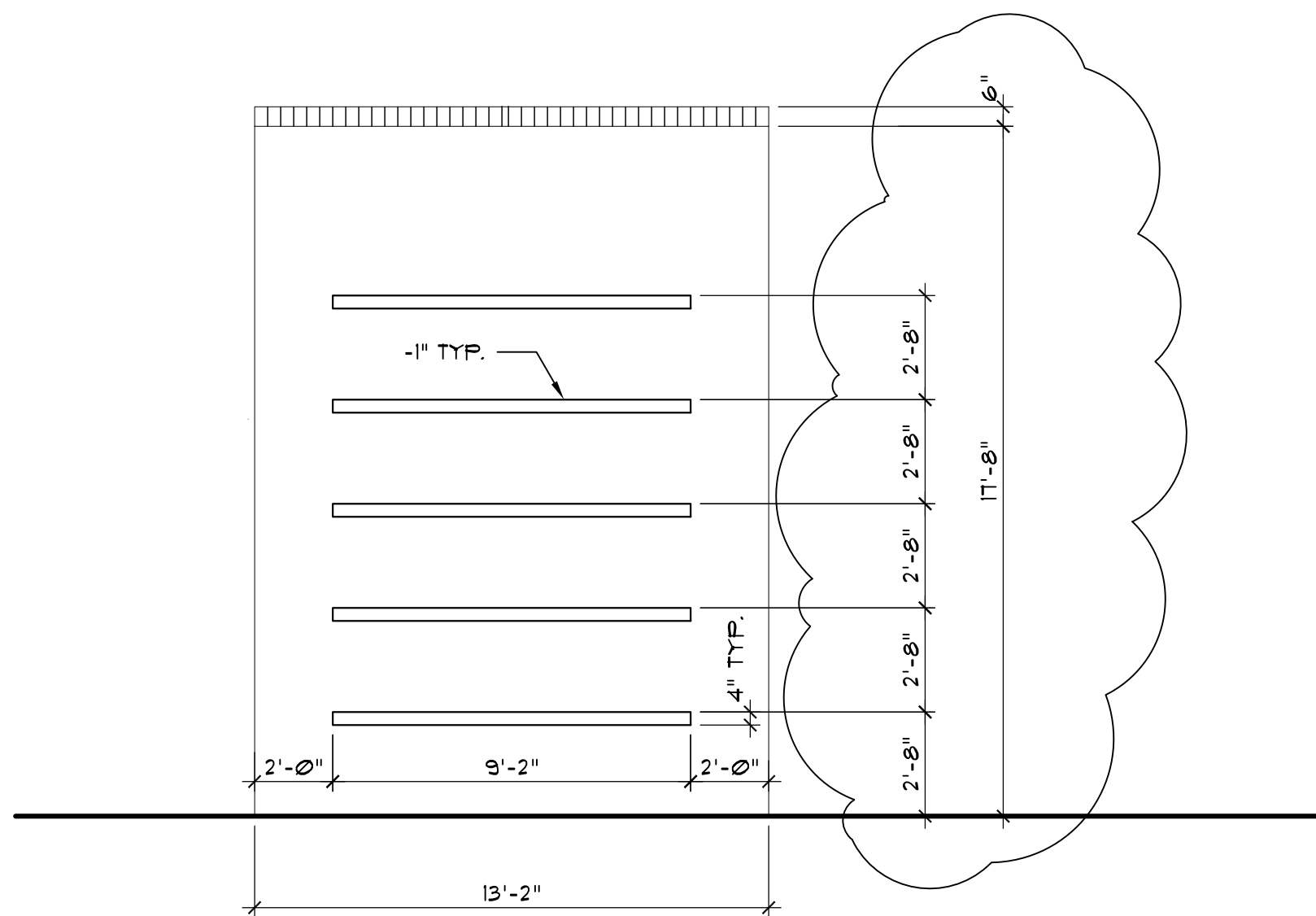
Sheet No.:  
A-2.2





1  
1/8" = 1'-0"

REAR (EAST) ELEVATION



2  
1/4" = 1'-0"

BRICK DETAIL

ELEVATION MATERIAL LEGEND	
#	DESCRIPTION
1	ACM WALL PANELS, 24" WIDE, 3 COLORS, TO BE DETERMINED
2	24 GA. 6" PREFINISHED METAL GUTTER, COMPLIMENT WALL COLOR
3	24 GA. 4" X 5" PAINTED METAL DOWNSPOUT, COMPLIMENT WALL COLOR
4	PAINTED HM. DOOR & FRAME w/ 4" CONCRETE PAD
5	SLOPED TPO ROOF
6	INSULATED GLASS IN ALUM. FRAMES, SEE SPECS.
7	26 GA. PREFINISHED METAL COPING, COOR. w/ PANEL COLOR
8	PAINTED STEEL COLUMN
9	BRICK VENEER

BRAVO BLDG SET 04-21-2025

phase two, for construction

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Issue Date: 07/11/24

Initial: E.M.S.

Drwg. Date: 06/28/24

Revision: 07/11/24

Drawn By: B.D.G.

Checked By: E.M.S.

File Name: 2023012 A-2.4

Project No.: 2023012

Drwg. Date: 06/28/24

Revision: 07/11/24

Drawn By: B.D.G.

Checked By: E.M.S.

File Name: 2023012 A-2.4

Sheet Title:

BUILDING  
ELEVATIONS

Sheet No.:

A-2.4

STATE OF GEORGIA

E. Michael Shockey

REGISTERED ARCHITECT

011724

E. MICHAEL SHOCKEY

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R. L. COUSINS COMMUNITY CENTER

NEWTON CO. BOC RFP #24-04

8134 GEIGER STREET, N.W.

COVINGTON, GEORGIA

SUNBELT

BUILDERS

10641 HWY 6 COVINGTON, LA 70411 770 788 0170 788 048



INTERIOR FINISH SCHEDULE										
MARK	ROOM NAME	WALLS		CEILING			BASE		FLOOR	REMARKS *
		MATERIAL	FINISH	MATERIAL	FINISH	HEIGHT	MATERIAL	FINISH		
C01	PREFUNCTION	GLASS/GYPSUM BOARD	PT.	CLOUDS/EXPOSED	PT.	VARIES.	4" RUBBER	FF.	POLISHED CONCRETE	1
C02	CORRIDOR	EXISTING GYPSUM BOARD	PT.	CLOUDS/EXPOSED.	PT.	VARIES.	4" RUBBER	FF.	POLISHED CONCRETE	1
C03	LARGE ACTIVITIES ROOM	GYPSUM BOARD	PT.	CLOUDS/EXPOSED	PT.	VARIES.	4" RUBBER	FF.	L.V.T.	1
C04	COMPUTER ROOM	GYPSUM BOARD	PT.	ACOUSTICAL	FF.	9'-0"	4" RUBBER	FF.	L.V.T.	
C05	TABLES & CHAIR STORAGE	GYPSUM BOARD	PT.	EXP. STRUCTURE	-	VARIES	4" RUBBER	FF.	CONCRETE	
C06	WARMING KITCHEN	GYPSUM BOARD/FRP.	FF.	ACOUSTICAL	FF.	10'-0"	Q.T.	FF.	Q.T.	
C07	JANITOR CLOSET	GYPSUM BOARD	UNPTD.	EXP. STRUCTURE	-	VARIES	-	-	CONCRETE	
C08	HVAC/ELECTRIC ROOM	GYPSUM BOARD	UNPTD.	EXP. STRUCTURE	-	VARIES	-	-	CONCRETE	
C09	AV/IDF.	GYPSUM BOARD	UNPTD.	EXP. STRUCTURE	-	VARIES	-	-	CONCRETE	
C10	ACTIVITIES ROOM #2	GYPSUM BOARD	PT.	ACOUSTICAL	FF.	12'-0"	4" RUBBER	FF.	L.V.T.	
C11	ACTIVITIES ROOM #3	GYPSUM BOARD	PT.	ACOUSTICAL	FF.	12'-0"	4" RUBBER	FF.	L.V.T.	
C12	CORRIDOR	GLASS/GYPSUM BOARD	PT.	ACOUSTICAL/EXPOSED	FF.	10'-0"/VARIES	4" RUBBER	FF.	L.V.T.	1
C13	MEN'S TOILET	GYPSUM BOARD/C.T. FULL HT.	C.T.	ACOUSTICAL	FF.	9'-0"	C.T. COVE BASE	FF.	C.T.	2
C14	WOMEN'S TOILET	GYPSUM BOARD/C.T. FULL HT.	C.T.	ACOUSTICAL	FF.	9'-0"	C.T. COVE BASE	FF.	C.T.	2
C15	CORRIDOR	GYPSUM BOARD	PT.	ACOUSTICAL	FF.	10'-0"	4" RUBBER	FF.	L.V.T.	

[illegible]

Sheet No.:  
A-3.1.1

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DOOR SCHEDULE

MARK	SIZE (W X H X T)	TYPE	DESCRIPTION	FINISH	WIDTH	FRAME MAT.	FINISH	DETAIL	CLOSER?	LABEL	REMARKS	MARK
C1	FR 3'-0" X 8'-0" X 1 3/4"	C	ALUMINUM STOREFRONT DOORS	P.F.	4"	AL.	P.F.	-	Y, 2	-	3, 5, 6, 7, 13, 16, 17, 21, 22	C1
C2	FR 3'-0" X 8'-0" X 1 3/4"	C	ALUMINUM STOREFRONT DOORS	P.F.	4"	AL.	P.F.	-	Y, 2	-	3, 5, 6, 7, 13, 16, 17, 21, 22	C2
C3	FR 3'-0" X 8'-0" X 1 3/4"	C	ALUMINUM STOREFRONT DOORS	P.F.	4"	AL.	P.F.	-	Y, 2	-	3, 5, 6, 7, 13, 16, 17, 21, 22, 25	C3
C4	FR 3'-0" X 8'-0" X 1 3/4"	C	ALUMINUM STOREFRONT DOORS	P.F.	4"	AL.	P.F.	-	Y, 2	-	3, 5, 6, 7, 13, 16, 17, 21, 22	C4
C5	FR 3'-0" X 8'-0" X 1 3/4"	C	ALUMINUM STOREFRONT DOORS	P.F.	4"	AL.	P.F.	-	Y, 2	-	4, 7, 12, 16, 17, 22	C5
C6	FR 3'-0" X 8'-0" X 1 3/4"	E	HOLLOW METAL, FLUSH W/ VIEW PANEL	P.T.	8"	H.M.	P.T.	-	Y, 2	-	4, 12, 20, 22, 24	C6
C7	FR 3'-0" X 8'-0" X 1 3/4"	E	HOLLOW METAL, FLUSH W/ VIEW PANEL	P.T.	8"	H.M.	P.T.	-	Y, 2	-	4, 12, 20, 22	C7
C8	FR 3'-0" X 8'-0" X 1 3/4"	E	HOLLOW METAL, FLUSH W/ VIEW PANEL	P.T.	8"	H.M.	P.T.	-	Y, 2	-	4, 12, 20, 22	C8
C9	FR 3'-0" X 1'-0" X 1 3/4"	A	BIRCH VENEER SCWD, FLUSH	ST.	8"	H.M.	P.T.	-	-	-	24	C9
C10	3'-0" X 7'-0" X 1 3/4"	B	BIRCH VENEER SCWD, FLUSH W/ VIEW PANEL	ST.	8"	H.M.	P.T.	-	Y	-	2, 4, 20	C10
C11	3'-0" X 7'-0" X 1 3/4"	B	BIRCH VENEER SCWD, FLUSH W/ VIEW PANEL	ST.	8"	H.M.	P.T.	-	-	-	2, 4, 18, 20	C11
C12	3'-0" X 7'-0" X 1 3/4"	A	BIRCH VENEER SCWD, FLUSH	ST.	8"	H.M.	P.T.	-	-	-	-	C12
C13	3'-0" X 7'-0" X 1 3/4"	A	BIRCH VENEER SCWD, FLUSH	ST.	8"	H.M.	P.T.	-	-	-	18, 24	C13
C14	3'-0" X 7'-0" X 1 3/4"	A	BIRCH VENEER SCWD, FLUSH	ST.	8"	H.M.	P.T.	-	-	-	18	C14
C15	3'-0" X 7'-0" X 1 3/4"	B	BIRCH VENEER SCWD, FLUSH W/ VIEW PANEL	ST.	8"	H.M.	P.T.	-	-	-	2, 4, 20	C15
C16	3'-0" X 7'-0" X 1 3/4"	B	BIRCH VENEER SCWD, FLUSH W/ VIEW PANEL	ST.	8"	H.M.	P.T.	-	-	-	2, 4, 18	C16
C17	3'-0" X 7'-0" X 1 3/4"	B	BIRCH VENEER SCWD, FLUSH W/ VIEW PANEL	ST.	8"	H.M.	P.T.	-	-	-	2, 4, 18	C17
C18	3'-0" X 7'-0" X 1 3/4"	B	BIRCH VENEER SCWD, FLUSH W/ VIEW PANEL	ST.	8"	H.M.	P.T.	-	-	-	2, 4, 18	C18
C19	3'-0" X 7'-0" X 1 3/4"	B	BIRCH VENEER SCWD, FLUSH W/ VIEW PANEL	ST.	8"	H.M.	P.T.	-	-	-	2, 4, 18	C19
C20	3'-0" X 7'-0" X 1 3/4"	A	HOLLOW METAL, FLUSH	P.T.	8 1/2"	H.M.	P.T.	-	Y	-	1, 5, 6, 7, 13, 14, 21, 22	C20
C21	4'-0" X 4'-0"	F	OVERHEAD COILING DOOR	P.F.	-	-	-	-	-	-	8, 12	C21

ABBREVIATIONS

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

REMARKS:

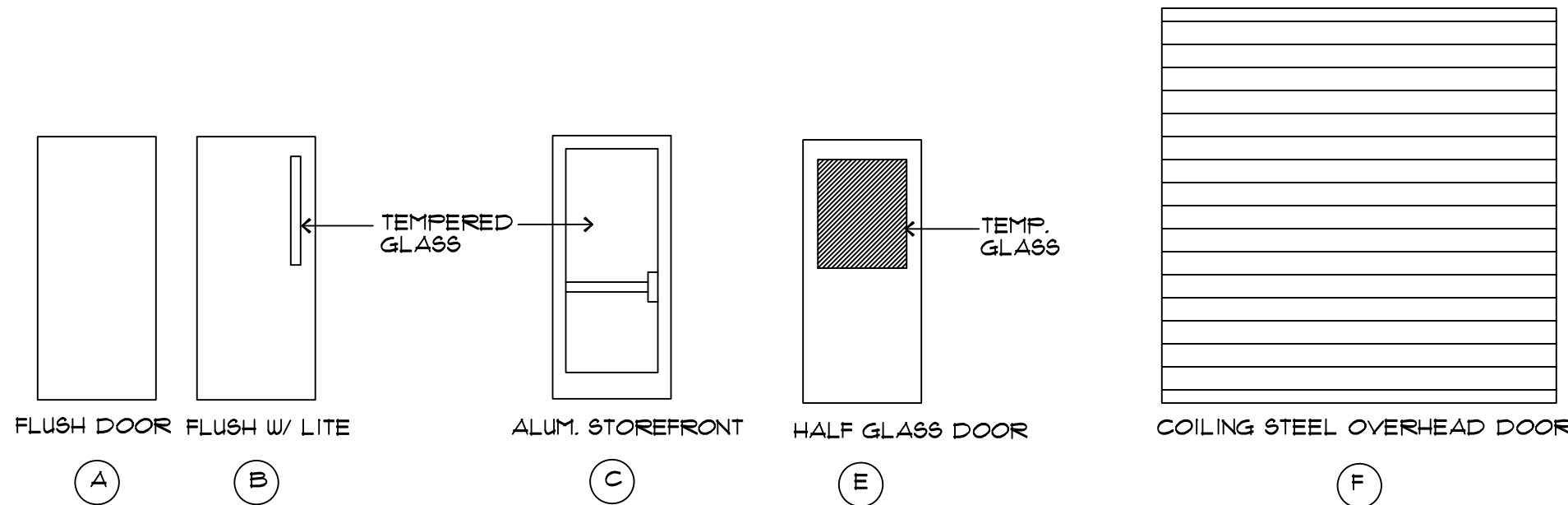
1. BALL BEARING HINGES, NON-REMOVABLE PINS
2. (1) VIEW PANEL
3. TEMPERED GLASS W/ BRONZE TINT
4. TEMPERED CLEAR GLASS
5. THRESHOLD
6. WEATHERSTRIPPING
7. LATCH GUARD
8. MANUAL OPERATION
9. ELECTRIC OPERATION
10. CHAIN HOIST
11. FUSIBLE LINK, EA. SIDE
12. UNINSULATED
13. INSULATED
14. 4" HEAD
15. PRIVACY LOCK
16. PIVOT HINGES

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

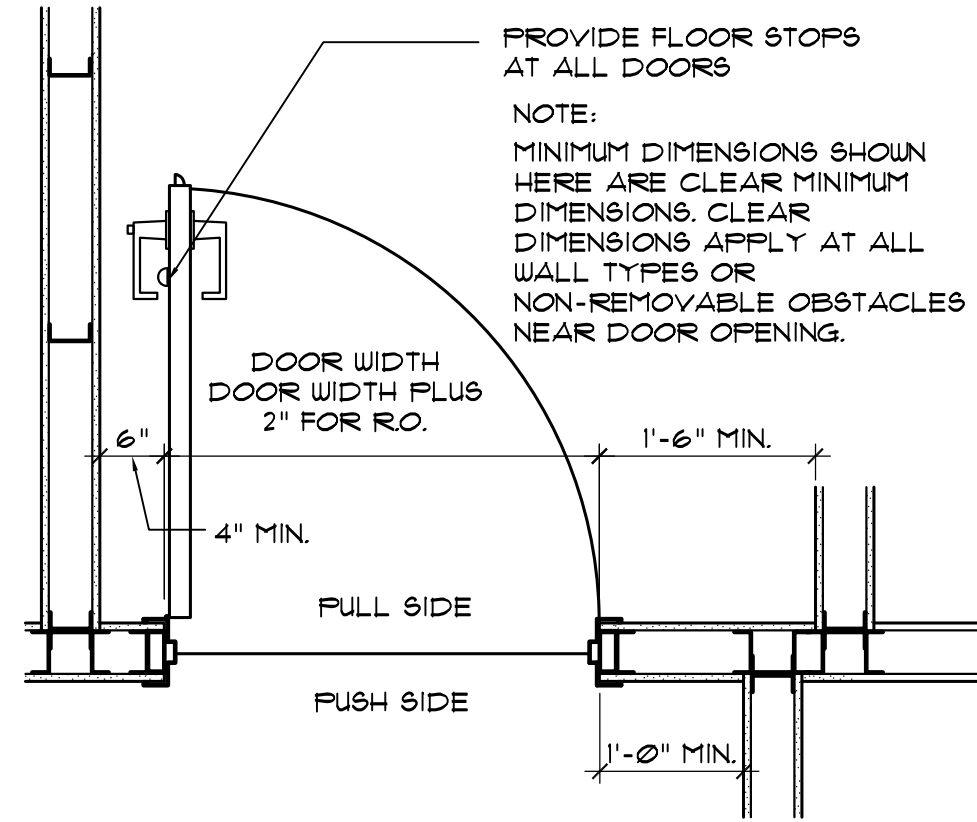
17. PUSH/PULL HARDWARE
18. WALL STOP
19. FLOOR STOP
20. KICK PLATES
21. SWEEP
22. PANIC HARDWARE
23. SLIDE BOLT LOCK
24. UNDERCUT DOOR 3/4"
25. HANDICAP POWER ASSIS

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 = 1/11, PERSONNEL DOORS = 51, GLASS DOORS = 104 (S.H.G.F. = 65 MAX.).



DOOR ELEVATIONS  
N.T.S.



2  
1 1/2" = 1'-0"  
08250aaa



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R. L. COUSINS COMMUNITY CENTER  
NEWTON CO. BOC RFP #24-04

8134 GEIGER STREET, N.W.  
COVINGTON, GEORGIA

Issue Date:

07/11/24

E.M.S. 1. DRWG. COORD. W/ CONTR.

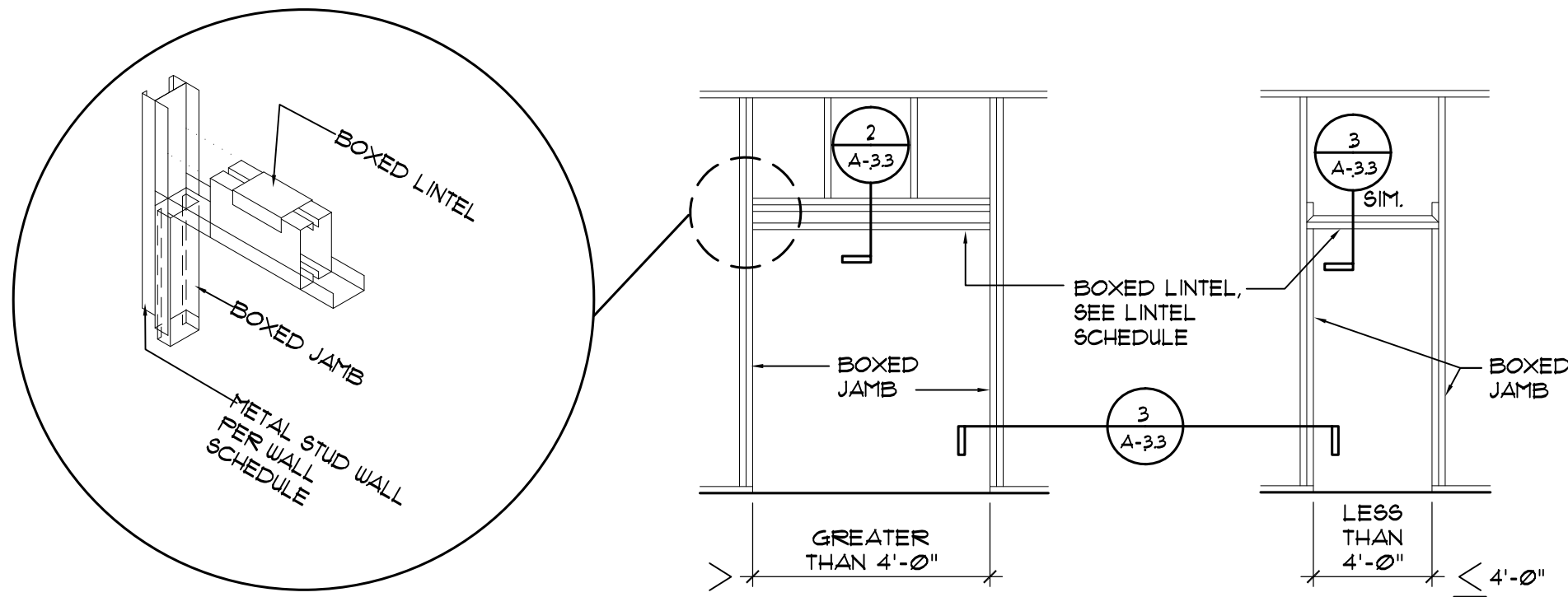
Project No.: 2023012  
Drwg. Date: 06/28/24  
Drwg. Revision: 07/11/24  
Drawn By: B.D.G.  
Checked By: E.M.S.  
File Name: 2023012 A-3.2.1

Sheet Title:  
DOOR SCHED.  
& DETAILS

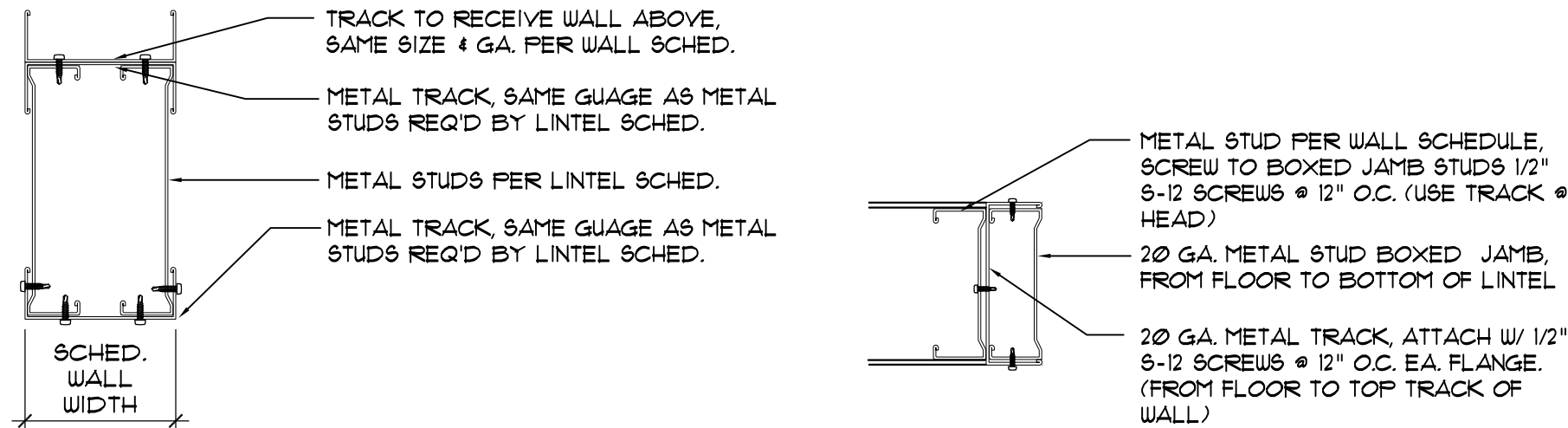
Sheet No.:  
A-3.2.1

BRAVO BLDG SET 04-21-2025





1 METAL STUD WALL OPENING DETAIL  
NOT TO SCALE 0310aap

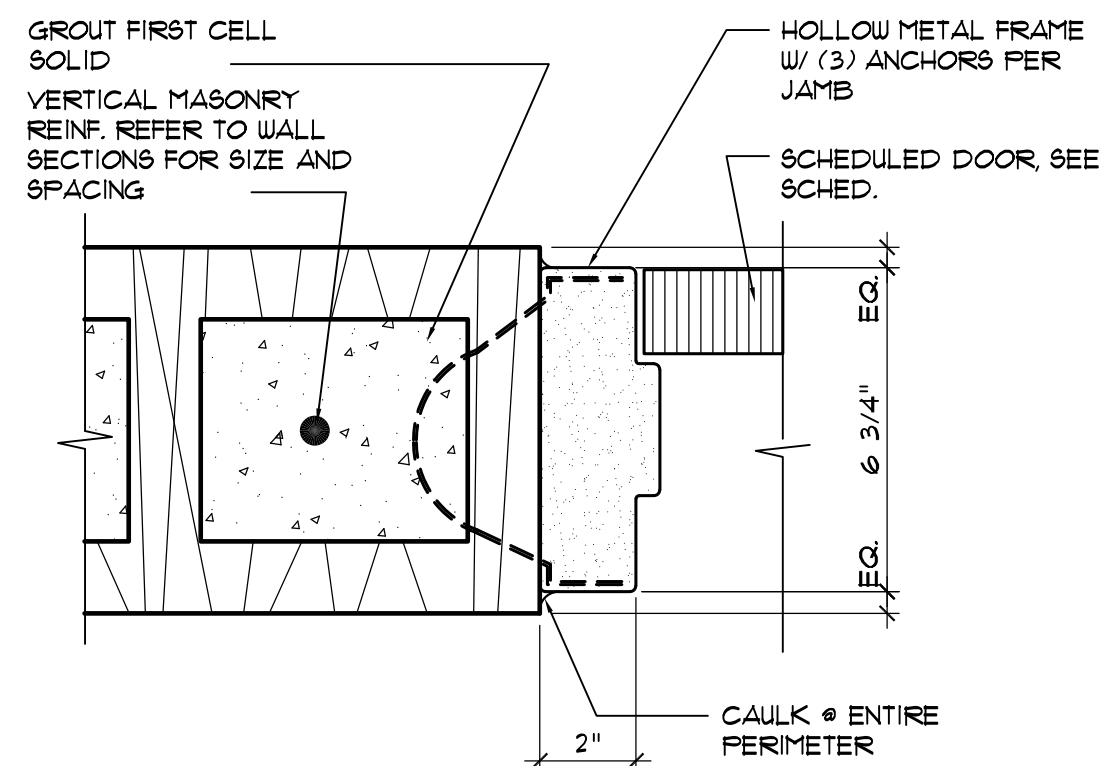


2 LINTEL DETAIL  
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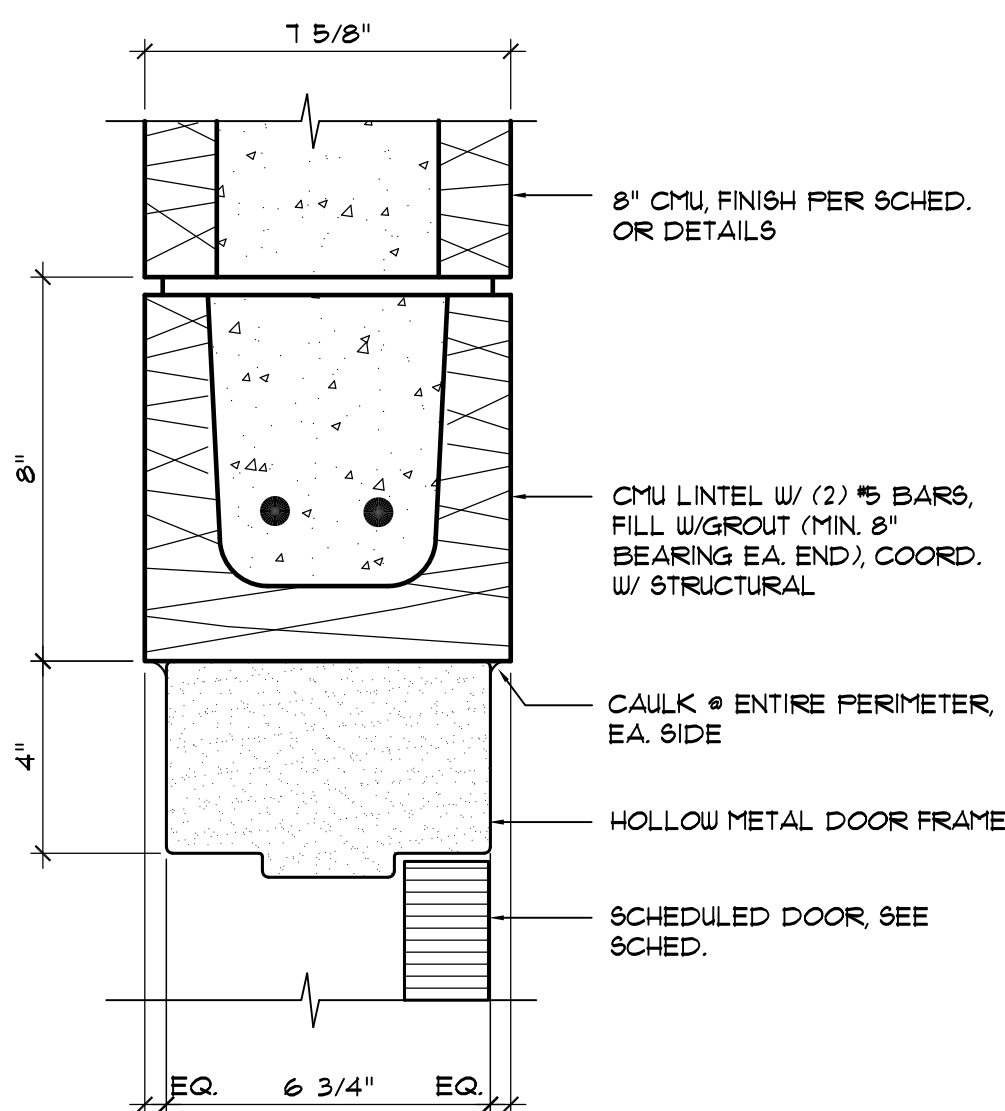
3 BOX JAMB  
NOT TO SCALE 0310aap

METAL STUD BOXED LINTEL SCHEDULE	
SPAN OPENING	STUD SIZE
UP TO 4'-0"	3629125-18*
> 4'-0" TO 6'-0"	6009125-30
> 6'-0" TO 8'-0"	6009125-43

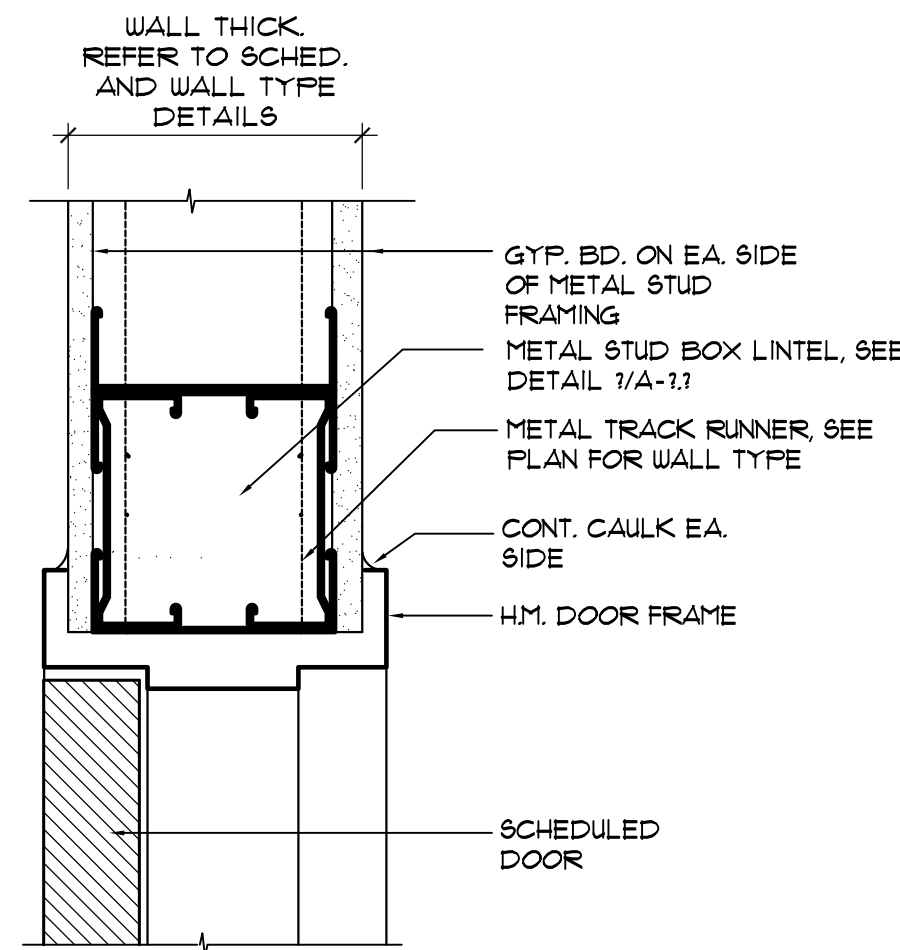
\* USE A MINIMUM OF 3629125-30  
\* EXTERIOR LOCATIONS



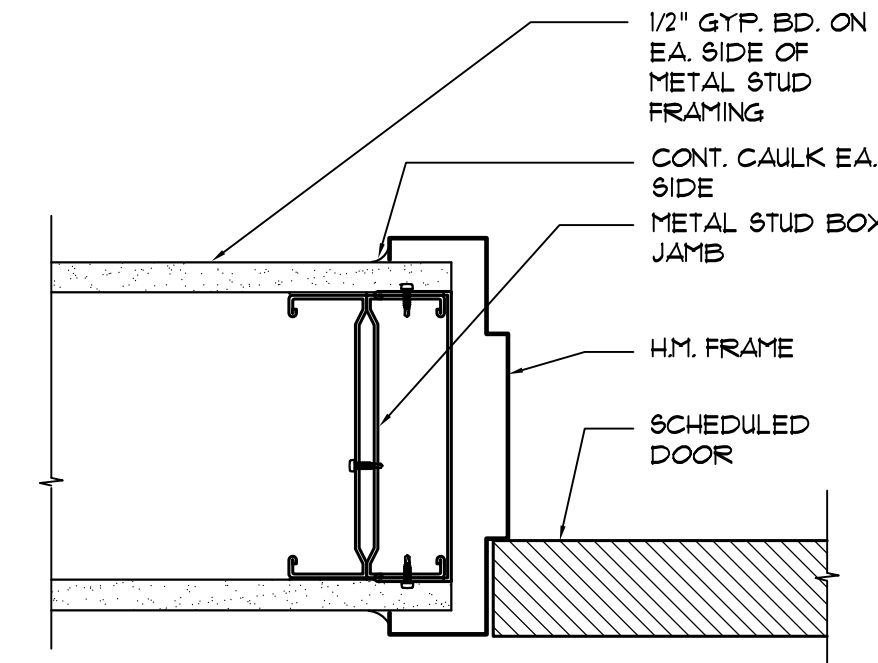
6 HOLLOW METAL DOOR JAMB AT MASONRY  
3" = 1'-0" 0310aar



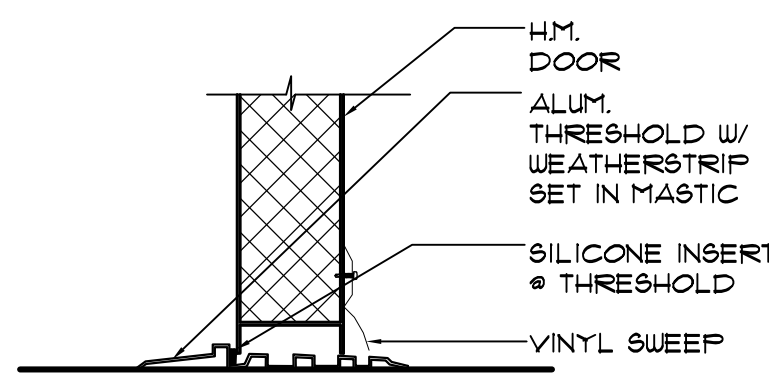
7 HOLLOW METAL DOOR HEAD AT MASONRY  
3" = 1'-0" 0310aap



4 HOLLOW METAL DOOR HEAD DETAIL  
3" = 1'-0" 0310aat



5 HOLLOW METAL DOOR JAMB DETAIL  
3" = 1'-0" 0310aat



8 TYP. DOOR SILL  
1 1/2" = 1'-0" 0310tha

## BRAVO BLDG SET 04-21-2025

phase two, for construction

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

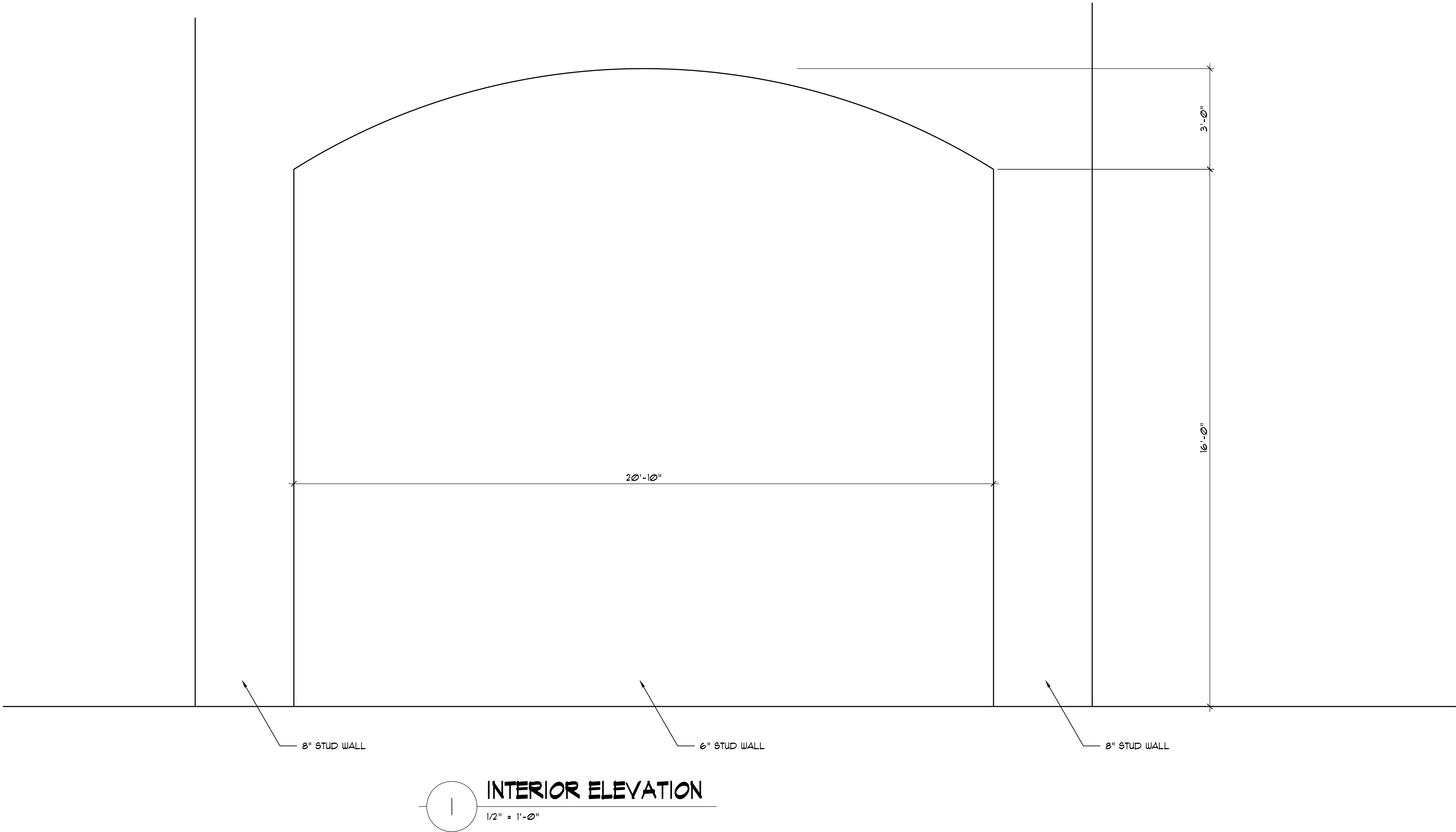
Issue Date: Initial Drwg. Revision Description:  
Project No.: 2023012  
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File Name: 2023012 A-3.3.1

Sheet Title:  
**DOOR DETAILS**

Sheet No.:  
**A-3.3.1**



BRAVO BLDG SET 04-21-2025



phase two, for construction

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E.M.S.: 1. NEW SHEET ADDED

Sheet Title:  
**INTERIOR  
ELEVATIONS**

Sheet No.:  
**A-3.5**

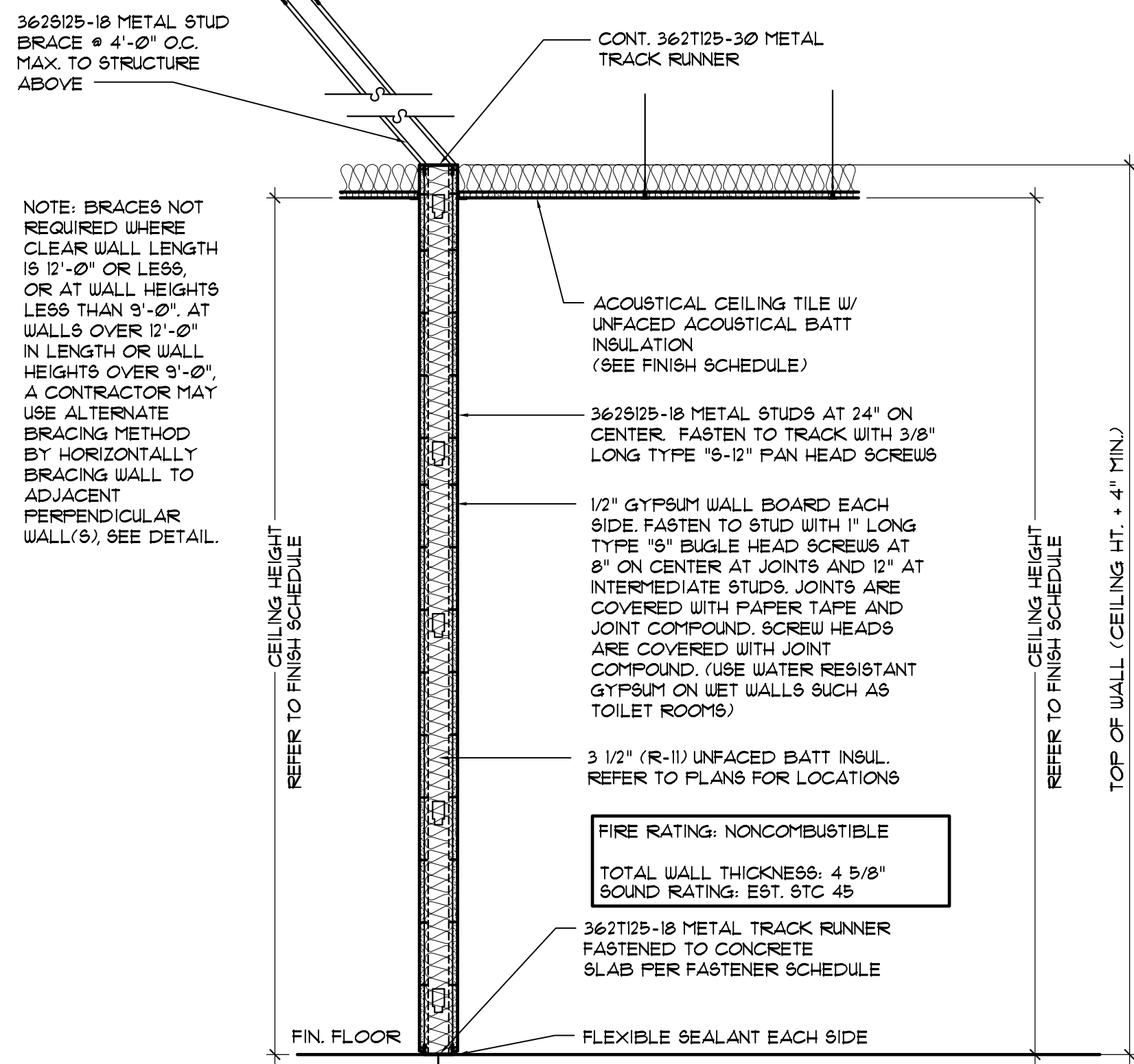
Project:  
**R. L. COUSINS COMMUNITY CENTER  
NEWTON CO. BOC RFP #24-04  
8134 GEIGER STREET, N.W.  
COVINGTON, GEORGIA**

Client:  
**SUNBELT  
BUILDERS™**  
10641 HWY 6 COVINGTON, LA 70438 01 770 786 01 770 786 046

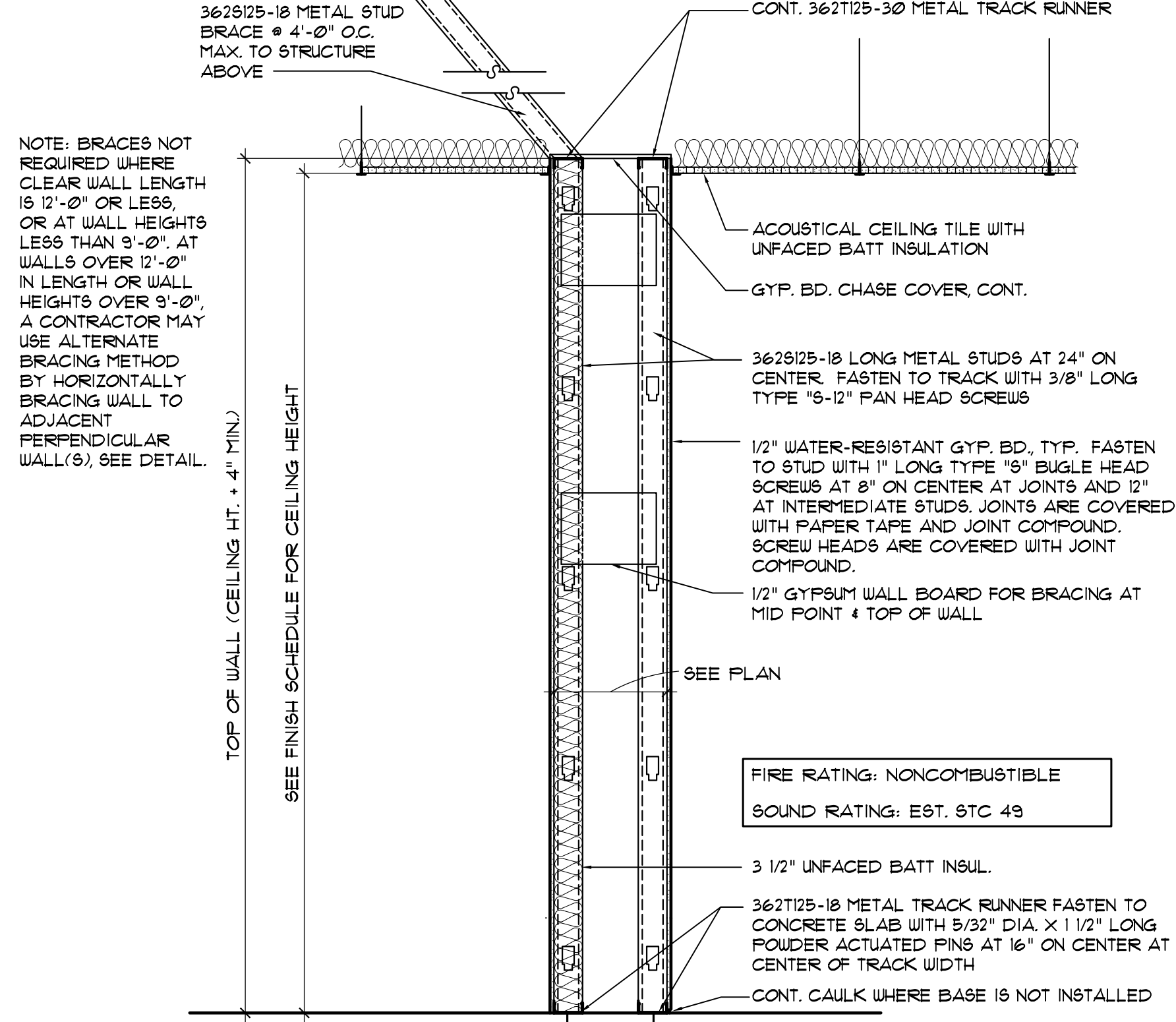
**Beta Design Group, Inc.**  
Architecture  
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Stone Mountain, GA 30087  
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STATE OF GEORGIA  
E. Michael Shockey  
07/17/2024  
REGISTERED ARCHITECT

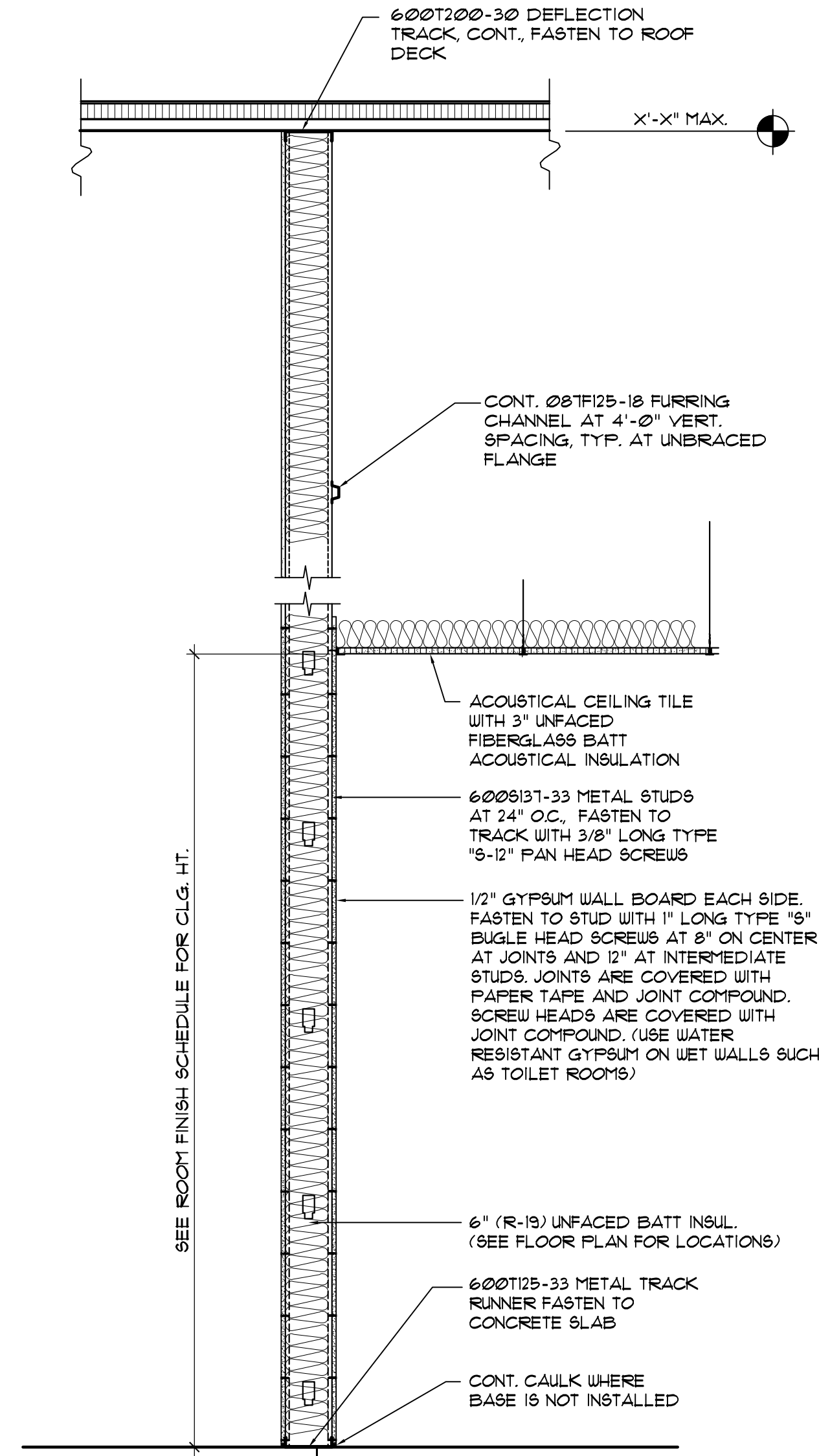




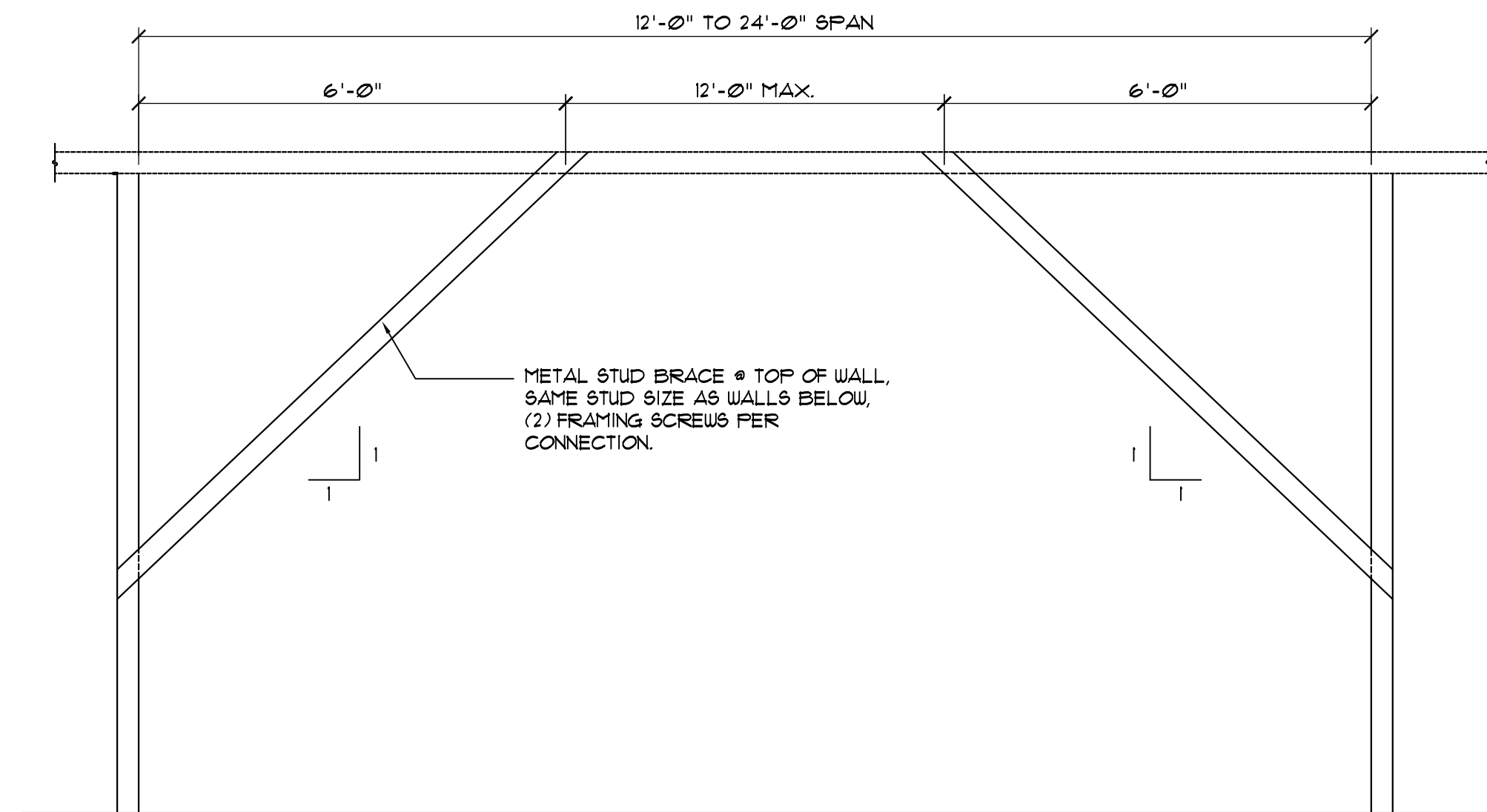
**3 5/8" NONCOMBUSTIBLE AND  
NONLOAD-BEARING PARTITION**  
3/4" = 1'-0" 09250wsk



**PLUMBING PARTITION**  
3/4" = 1'-0" 09250wsk



**6" NONCOMBUSTIBLE AND  
NONLOAD-BEARING PARTITION**  
3/4" = 1'-0" 09250wsk



**WALL BRACING DETAIL**  
1/2" = 1'-0" 0910bra

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"

BRAVO BLDG SET 04-21-2025

phase two, for construction

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10641 HWY 6 COVINGTON, LA 70038 0 1 770 886 046

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

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:

1	Initial	Drwg.	Revision	Description
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Project No.: 2023012  
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File Name: 2023012 A-4.1.4

Sheet Title:  
**WALL TYPE  
DETAILS**

Sheet No.:  
**A-4.1.4**

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BRACE AT 4'-0" O.C., SAME  
SIZE AS WALL STUD. ATTACH  
BRACE TO BOTTOM CHORDS OF  
JOISTS WITH ANGLE CLIP, SAME  
GAUGE AS METAL STUD AND (2)  
#10 SELF-DRILLING SCREWS.  
ATTACH CLIP TO WEB OF STUD  
W/ (2) SHEET METAL SCREWS.  
USE (2) SHEET METAL SCREWS  
AT CONNECTION TO TRACK AT  
TOP OF WALL.

NOTE: CONTRACTOR  
MAY USE ALTERNATE  
BRACING METHOD  
BY HORIZONTALLY  
BRACING WALL TO  
ADJACENT  
PERPENDICULAR  
WALL(S). SEE DETAIL.

TOP OF WALL (CEILING HEIGHT + 4" MIN.)  
SEE ROOF FINISH SCHEDULE FOR CLG. HT.

6" NONCOMBUSTIBLE AND  
NONLOAD-BEARING PARTITION

3/4" = 1'-0"

09250N50C

FIRE RATING: NONCOMBUSTIBLE  
TOTAL WALL THICKNESS: 1"  
SOUND RATING: EST. STC 45

6" (R-19) UNFACED BATT INSUL. (SEE  
FLOOR PLAN FOR LOCATIONS)

600T125-30 METAL TRACK RUNNER  
FASTEN TO CONCRETE SLAB - SEE  
FASTENER SCHEDULE

600S125-18 METAL STUD BRACES  
AT TOP OF WALL AT ALL  
INTERSECTIONS OR CORNERS  
CONDITIONS.  
600S125-18 METAL STUDS AT 24" O.C.  
FASTEN TO TRACK WITH 3/8" LONG  
TYPE "S-12" PAN HEAD SCREWS  
1/2" GYPSUM WALL BOARD EACH SIDE.  
FASTEN TO STUD WITH 1" LONG TYPE "S"  
BUGLE HEAD SCREWS AT 8" ON CENTER  
AT JOINTS AND 12" AT INTERMEDIATE  
STUDS. JOINTS ARE COVERED WITH  
PAPER TAPE AND JOINT COMPOUND.  
SCREW HEADS ARE COVERED WITH  
JOINT COMPOUND. (USE WATER  
RESISTANT GYPSUM ON WET WALLS SUCH  
AS TOILET ROOMS)

600T125-30, CONT.

ACOUSTICAL CEILING TILE WITH  
UNFACED BATT INSULATION

600T200-30 DEFLECTION  
TRACK, CONT. FASTEN TO ROOF  
DECK PER SCHEDULE

X'-X" MAX.

SEE ROOF FINISH SCHEDULE FOR CLG. HT.

6" NONCOMBUSTIBLE AND  
NONLOAD-BEARING PARTITION

3/4" = 1'-0"

09250N50

600T125-30 METAL TRACK  
RUNNER FASTEN TO  
CONCRETE SLAB - SEE  
FASTENER SCHEDULE

CONT. CAULK WHERE  
BASE IS NOT INSTALLED

6" (R-19) UNFACED BATT INSUL.  
(SEE FLOOR PLAN FOR LOCATIONS)

600S131-33 METAL STUDS  
AT 24" O.C., FASTEN TO  
TRACK WITH 3/8" LONG TYPE  
"S-12" PAN HEAD SCREWS  
1/2" GYPSUM WALL BOARD EACH SIDE.  
FASTEN TO STUD WITH 1" LONG TYPE "S"  
BUGLE HEAD SCREWS AT 8" ON CENTER  
AT JOINTS AND 12" AT INTERMEDIATE  
STUDS. JOINTS ARE COVERED WITH  
PAPER TAPE AND JOINT COMPOUND.  
SCREW HEADS ARE COVERED WITH  
JOINT COMPOUND.

800T200-43 DEFLECTION  
TRACK, CONT. FASTEN TO ROOF  
DECK PER SCHEDULE

X'-X" MAX.

800S200-43 METAL STUDS  
AT 24" O.C., FASTEN TO  
TRACK WITH 3/8" LONG TYPE  
"S-12" PAN HEAD SCREWS

1/2" GYPSUM WALL BOARD EACH SIDE.  
FASTEN TO STUD WITH 1" LONG TYPE "S"  
BUGLE HEAD SCREWS AT 8" ON CENTER  
AT JOINTS AND 12" AT INTERMEDIATE  
STUDS. JOINTS ARE COVERED WITH  
PAPER TAPE AND JOINT COMPOUND.  
SCREW HEADS ARE COVERED WITH  
JOINT COMPOUND.

6" (R-19) UNFACED BATT INSUL.

800T200-43 METAL TRACK  
RUNNER FASTEN TO  
CONCRETE SLAB - SEE  
FASTENER SCHEDULE

8" NONCOMBUSTIBLE AND  
NONLOAD-BEARING PARTITION

3/4" = 1'-0"

09250N50

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

Issue Date: Initial Drwg. Revision Description:

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Sheet Title:  
WALL TYPE  
DETAILS

Sheet No.:  
A-4.1.5



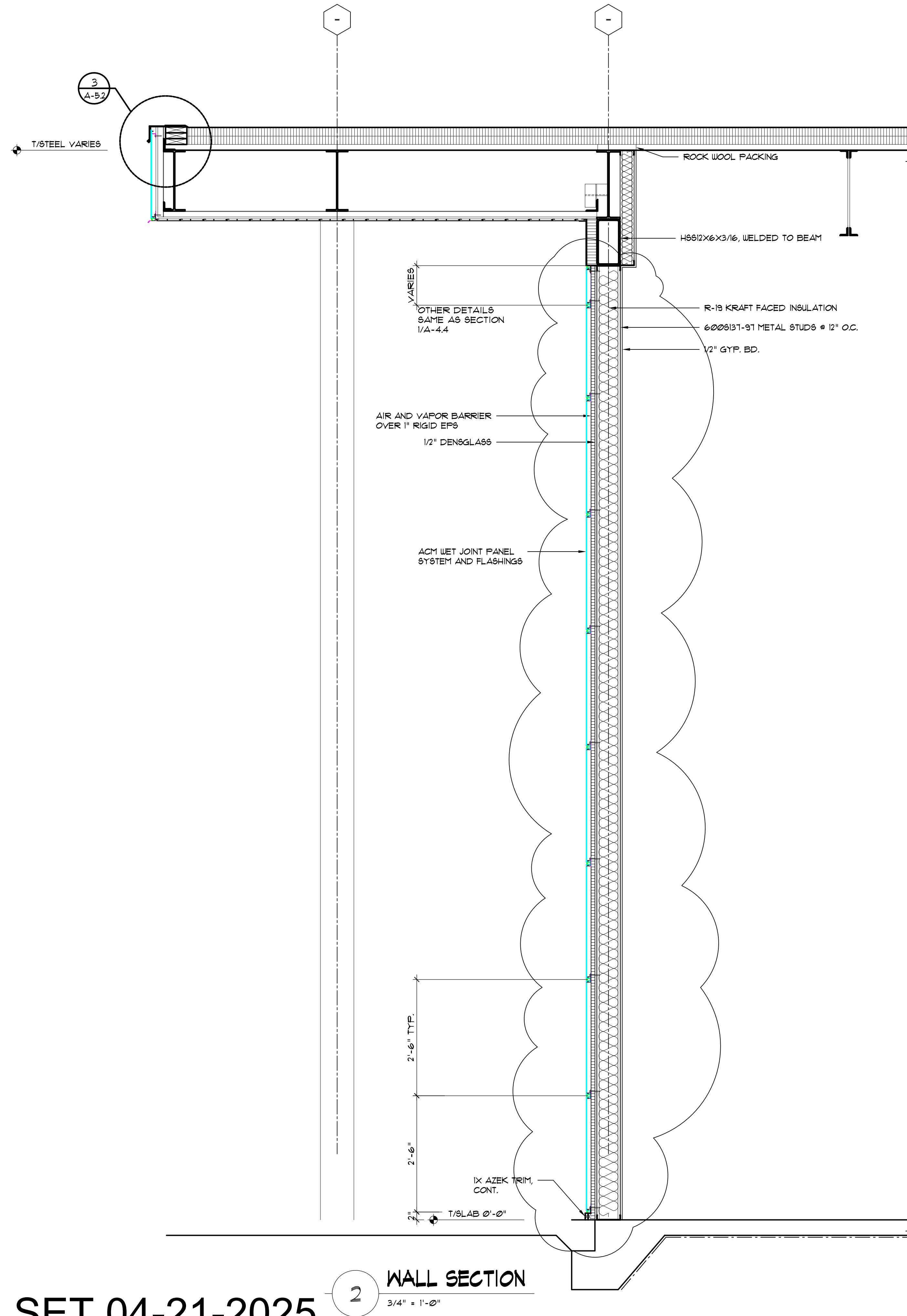
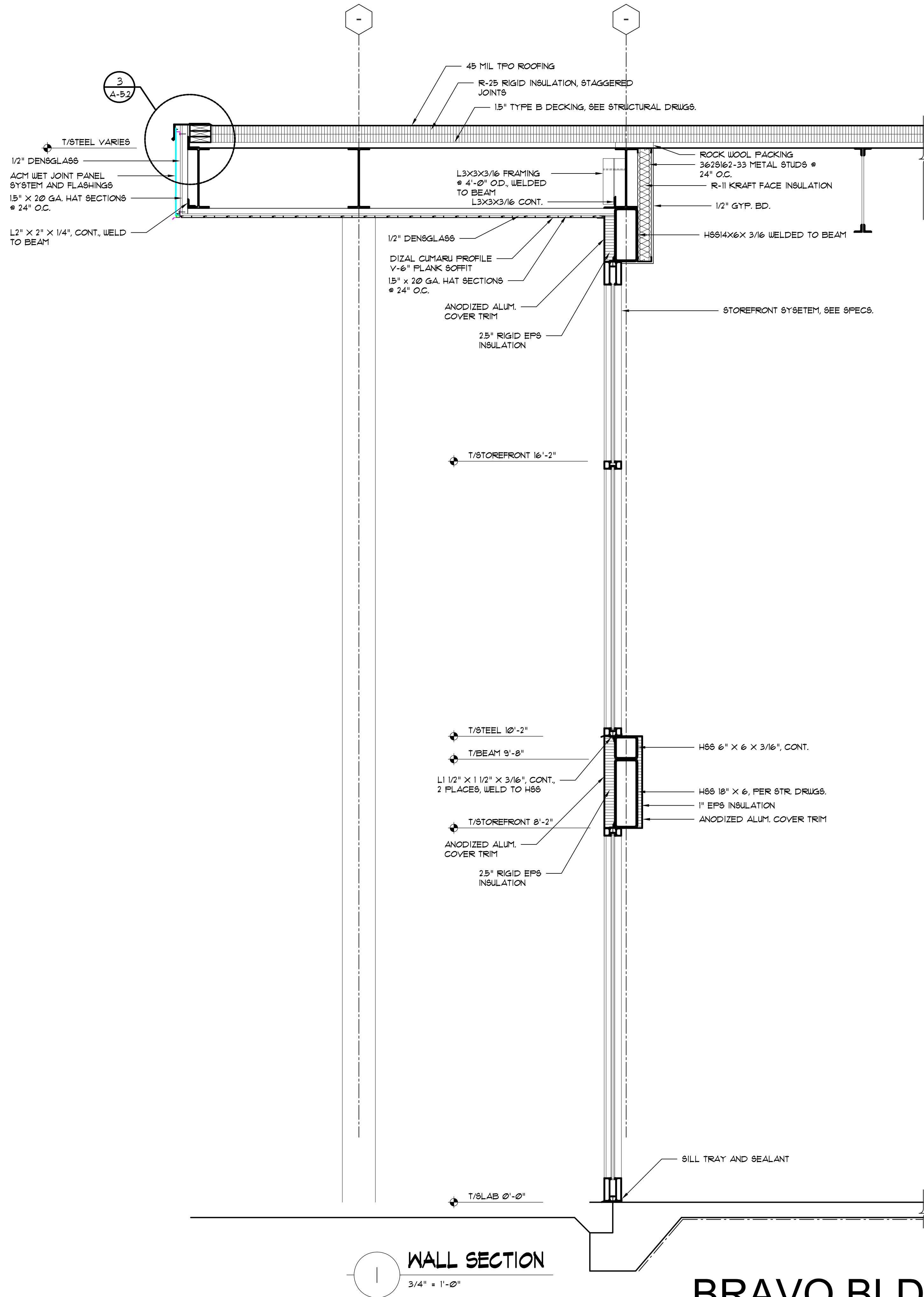
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SUNBELT  
BUILDERS  
10641 HWY 6 COVINGTON, LA 70450  
0 1 770 886 046

phase two, for construction

BRAVO BLDG SET 04-21-2025





# BRAVO BLDG SET 04-21-2025

phase two, for construction

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

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

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

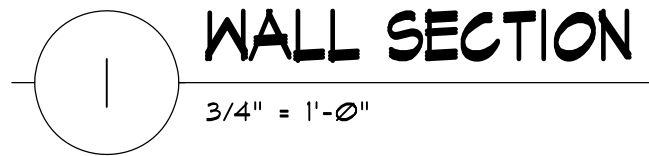
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Drwg. Date: 06/28/24  
Drwg. Revision: 07/11/24  
Drawn By: B.D.G.  
Checked By: E.M.S.  
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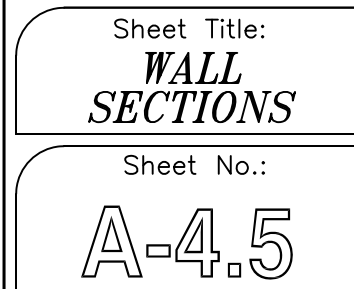
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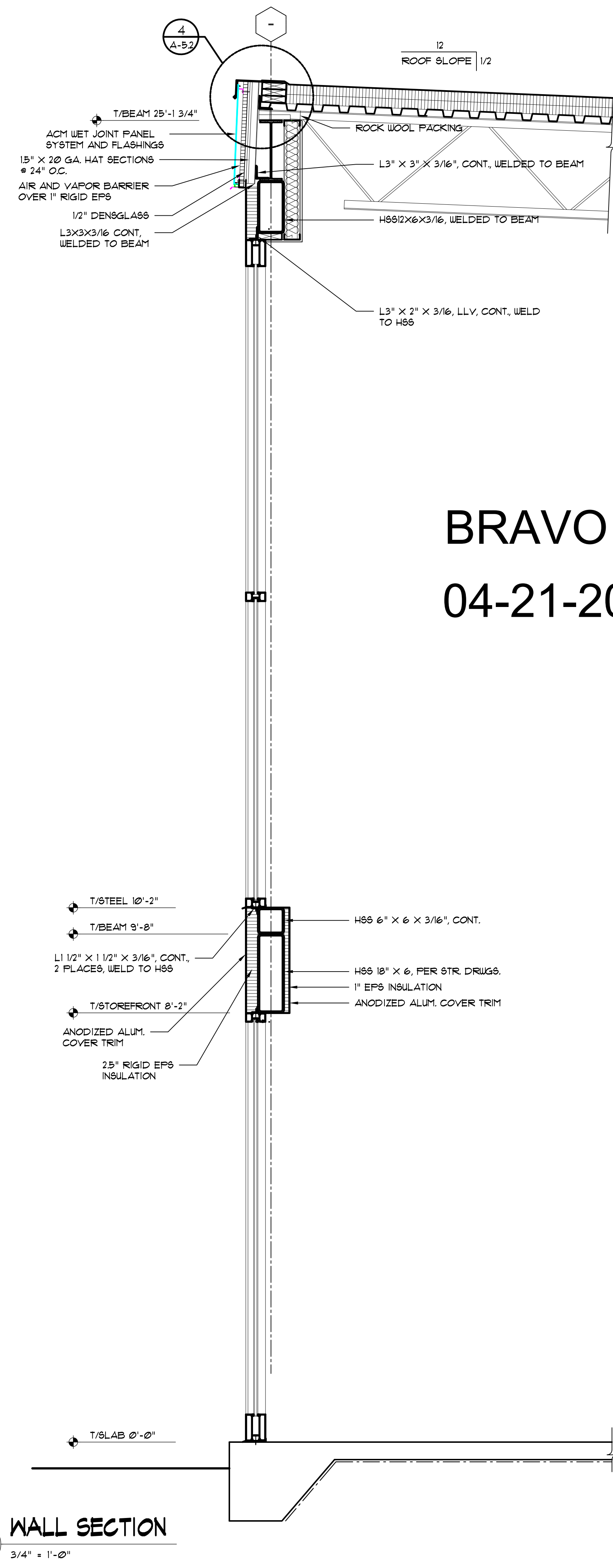
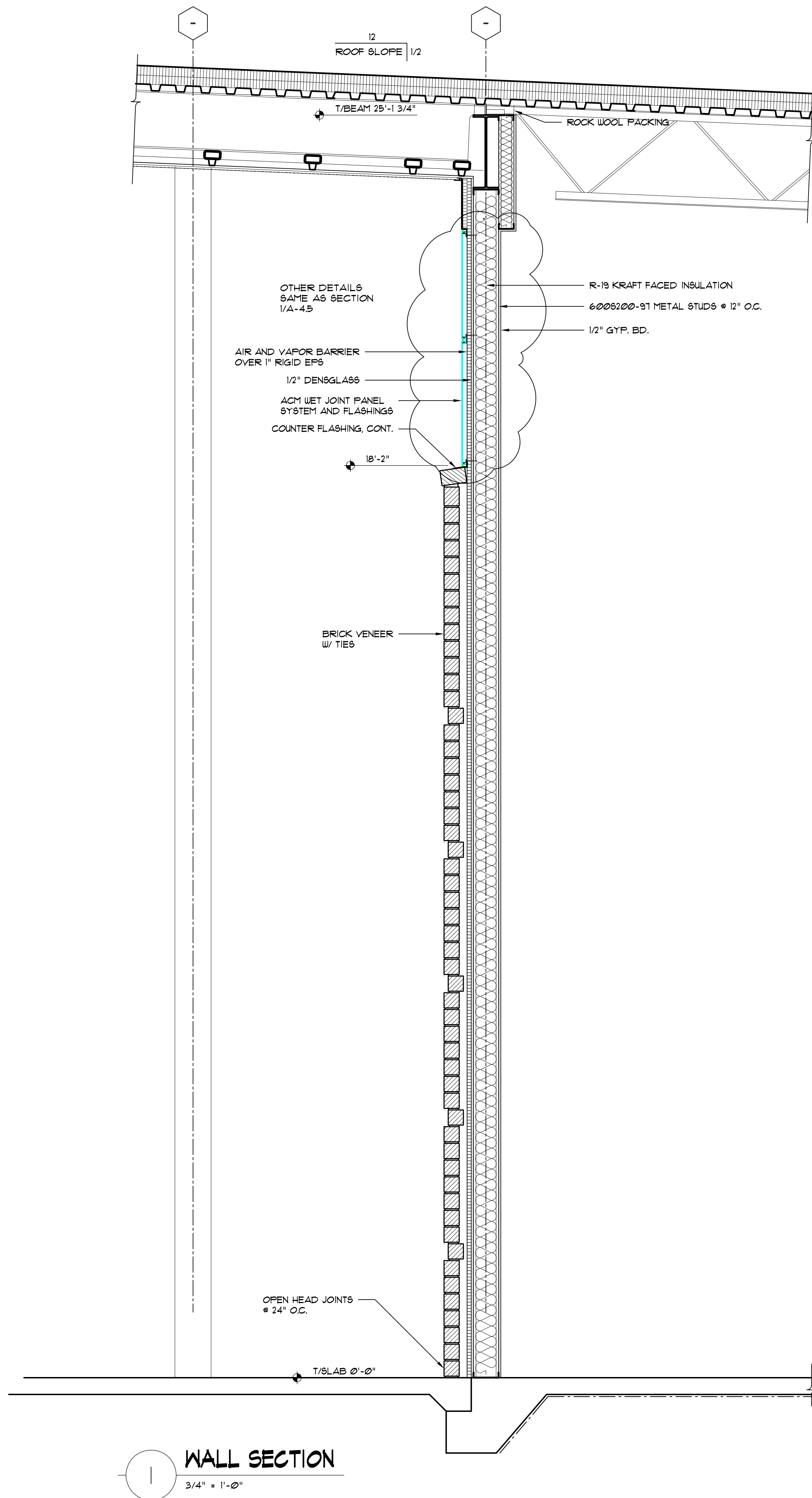




## phase two, for construction







BRAVO BLDG SET  
04-21-2025

phase two, for construction

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COVINGTON, GEORGIA

Project:

Issue	Date	Initial	Drwg.	Revision	Description
1	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.  
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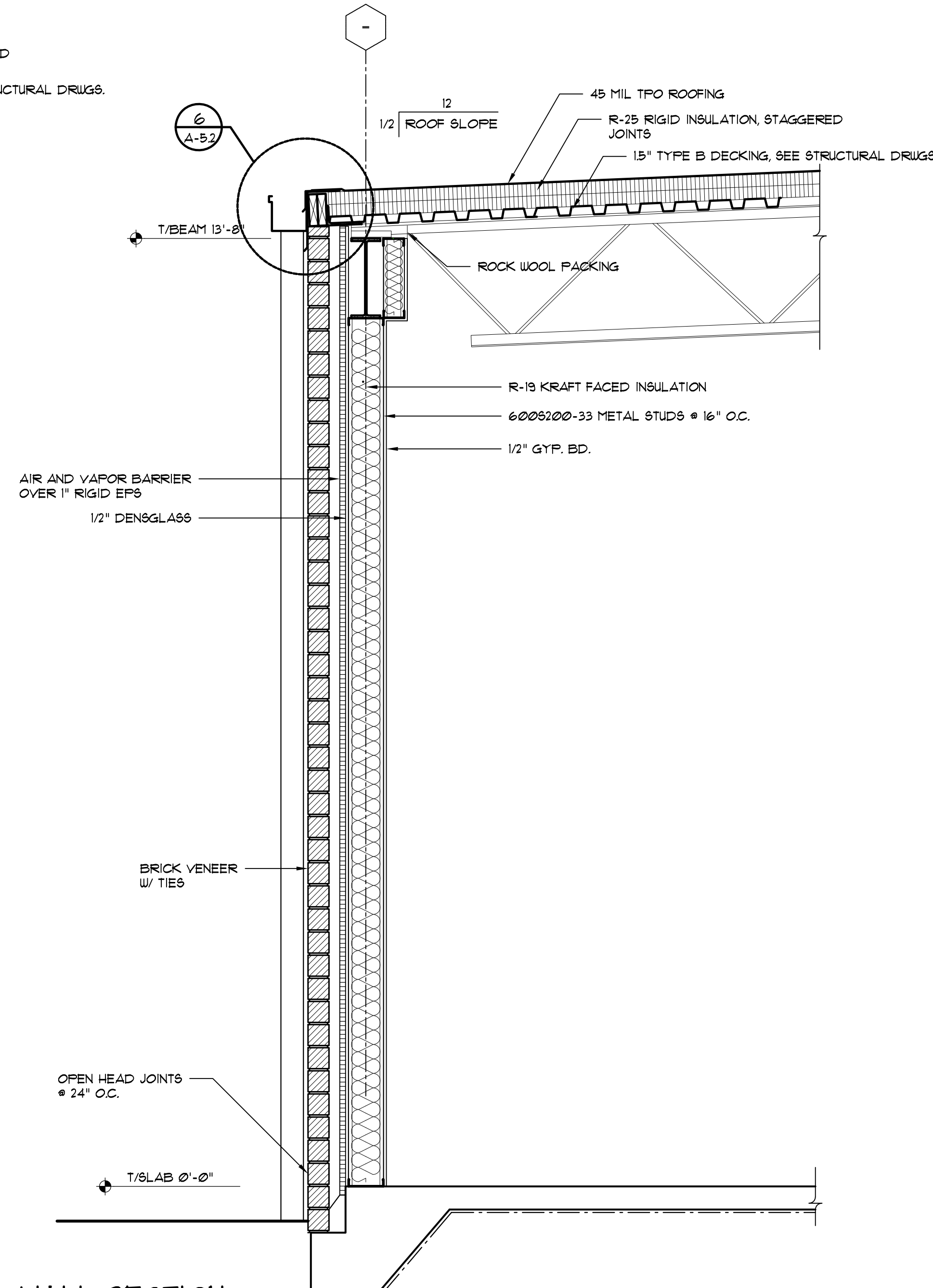
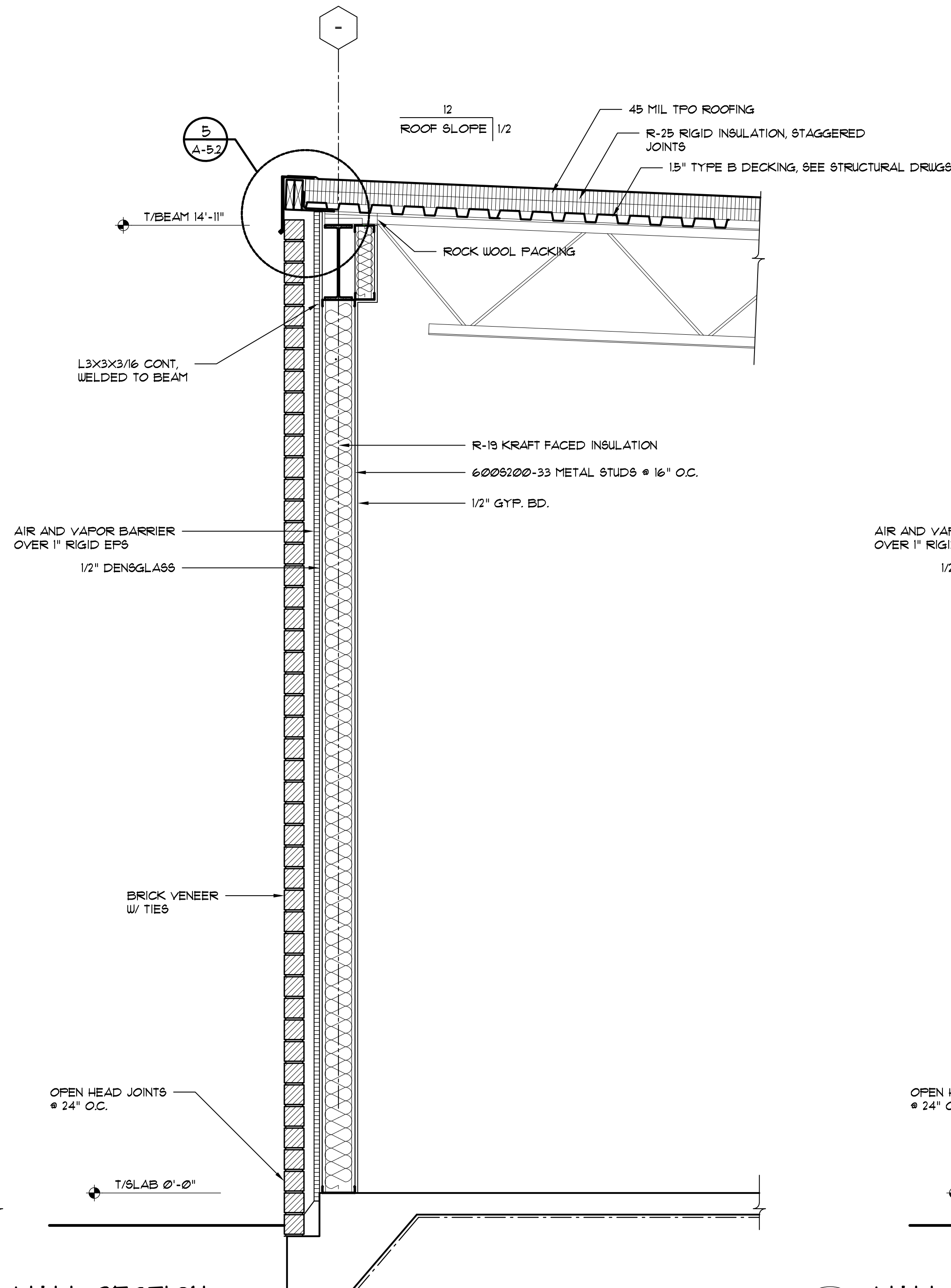
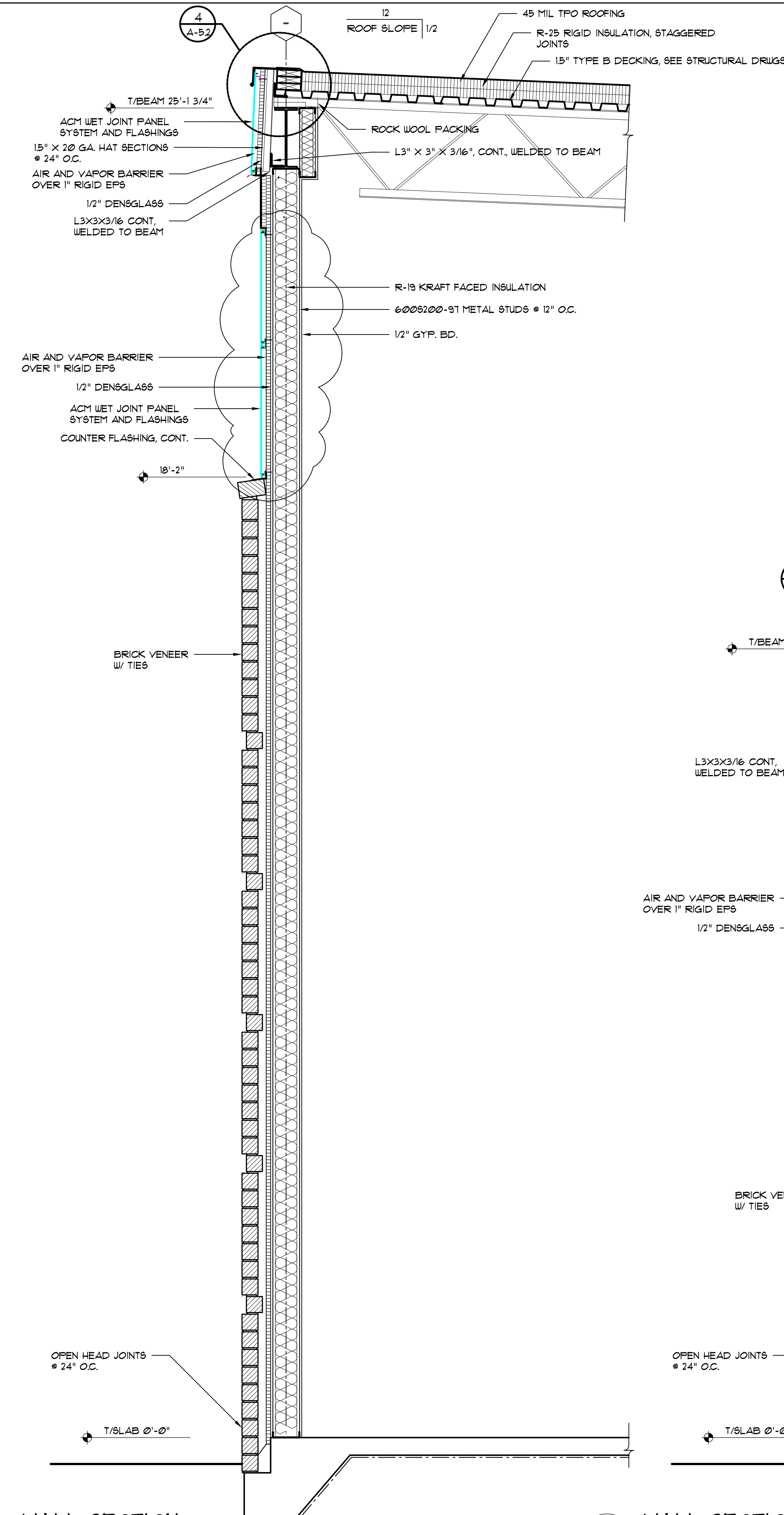
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BRAVO BLDG SET 04-21-2025



phase two, for construction

STATE OF GEORGIA  
E. Michael Shockey  
01/17/2024  
REGISTERED PROFESSIONAL ARCHITECT

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8134 GEIGER STREET, N.W.  
COVINGTON, GEORGIA

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

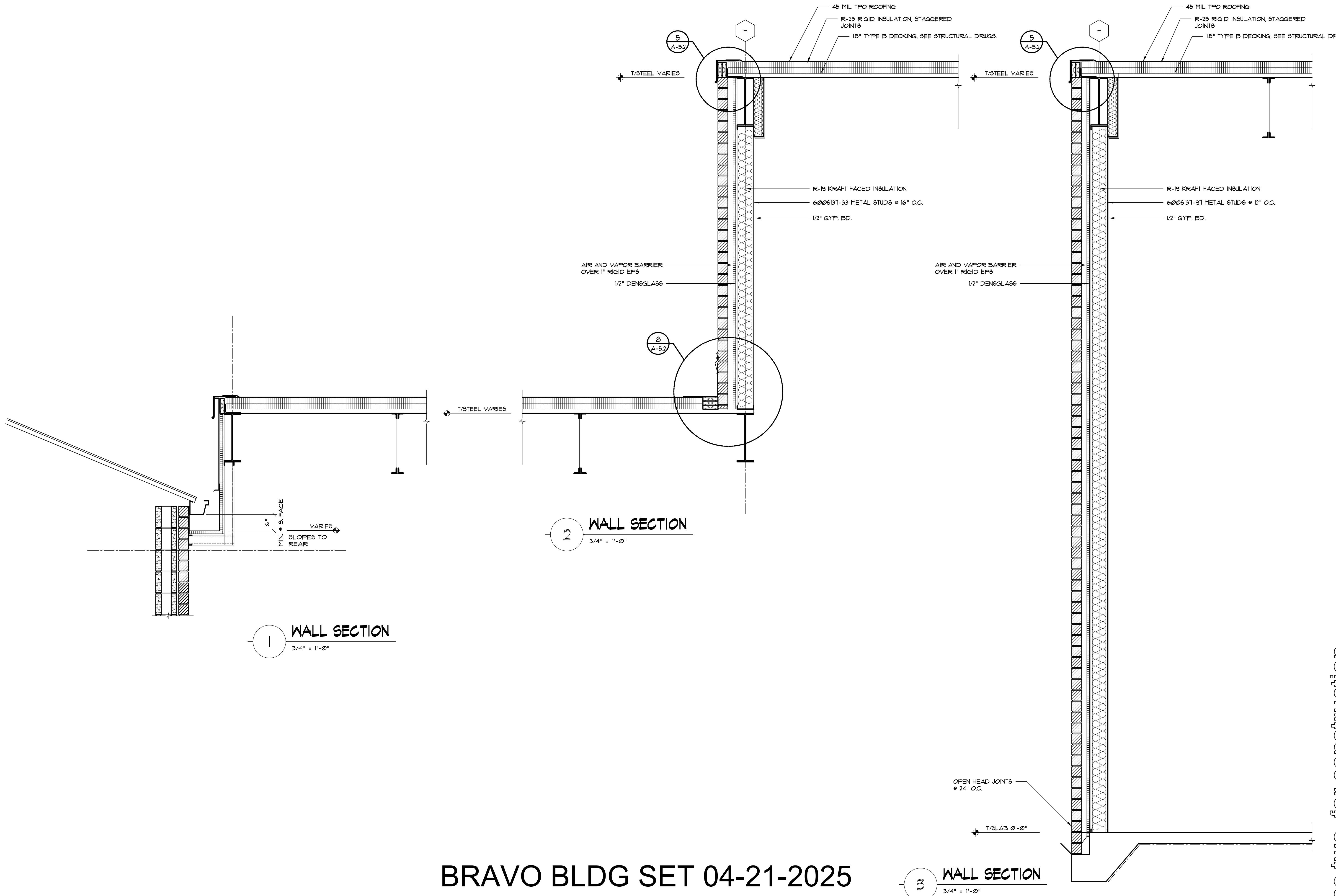
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Drwg. Revision: 07/11/24  
Drawn By: B.D.G.  
Checked By: E.M.S.  
File Name: 2023012 A-4.7

Sheet Title:  
**WALL SECTIONS**

Sheet No.:  
**A-4.7**





BRAVO BLDG SET 04-21-2025

phase two, for construction

STATE OF GEORGIA  
E. Michael Shockey  
06/28/2024  
REGISTERED ARCHITECT

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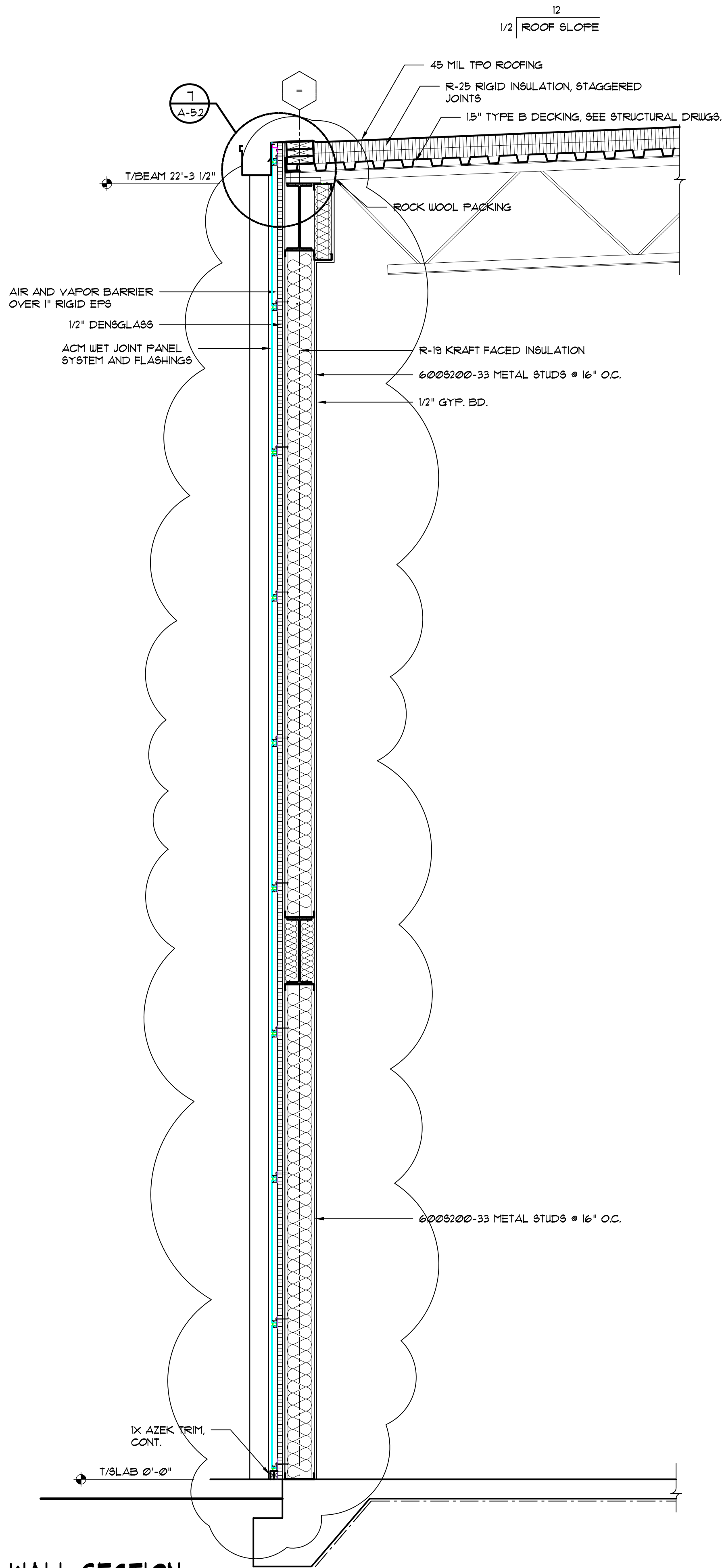
Client:  
**R. L. COUSINS COMMUNITY CENTER**  
NEWTON CO. BOC RFP #24-04  
8134 GEIGER STREET, N.W.  
COVINGTON, GEORGIA

Project:  
Issue Date: Initial Drwg. Revision Description:  
Project No.: 2023012  
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Drwg. Revision:  
Drawn By: B.D.G.  
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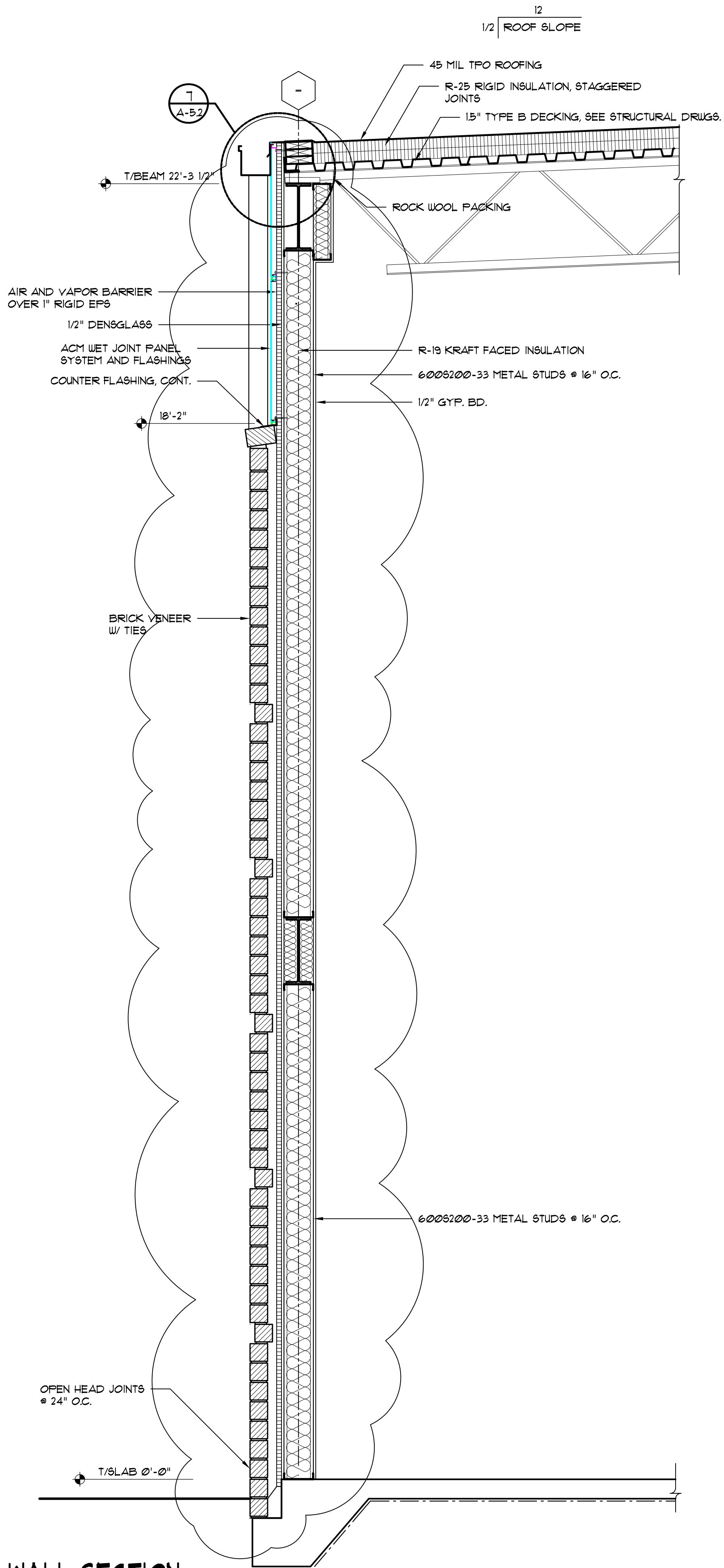
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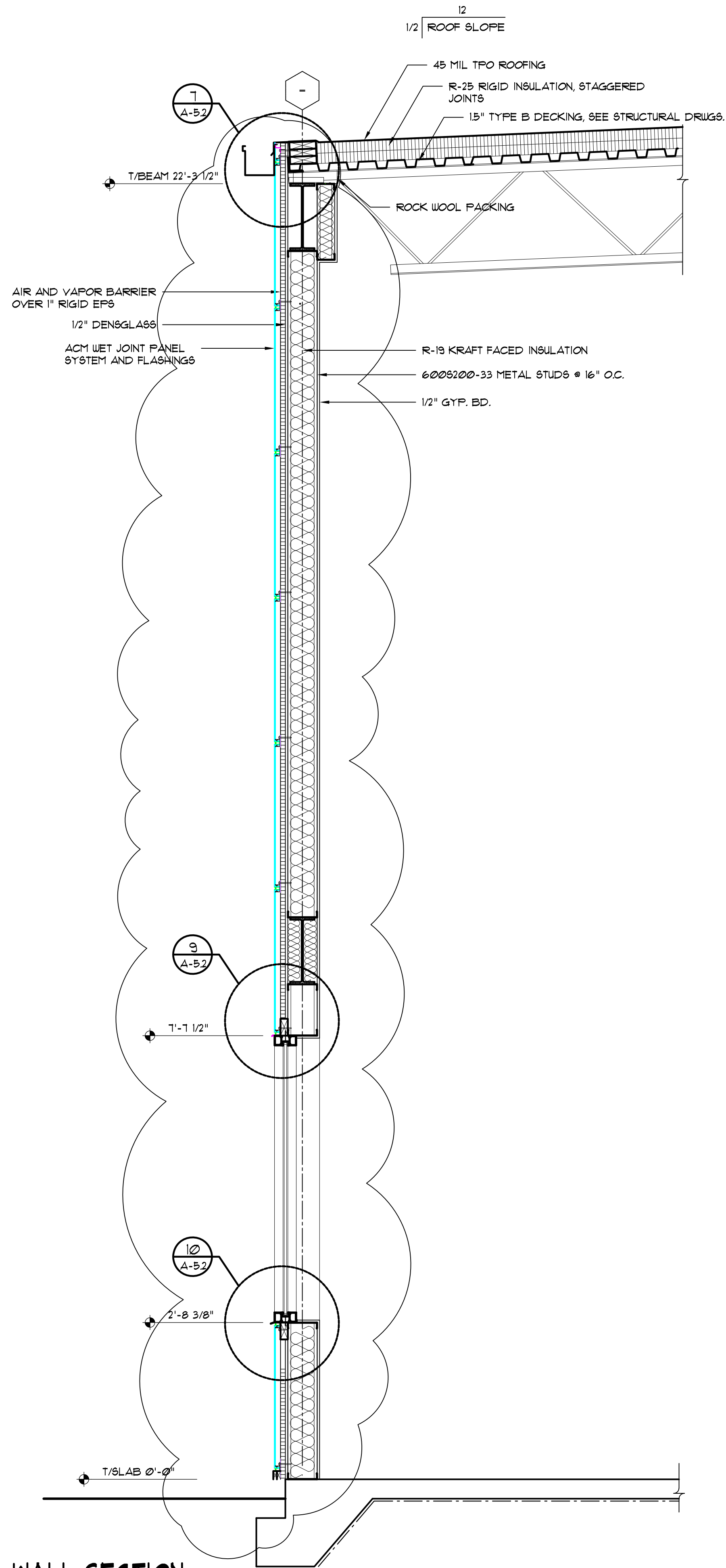




1 WALL SECTION  
3/4" = 1'-0"



2 WALL SECTION  
3/4" = 1'-0"



3 WALL SECTION  
3/4" = 1'-0"

phase two, for construction

STATE OF GEORGIA  
E. Michael S. Shockey  
E. MICHAEL SHOCKEY  
REGISTERED PROFESSIONAL ARCHITECT  
00011724

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SUNBELT

BUILDERS

10841 HWY 6 COVINGTON, LA 70450 014 1 770 788 0 1 770 788 048

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

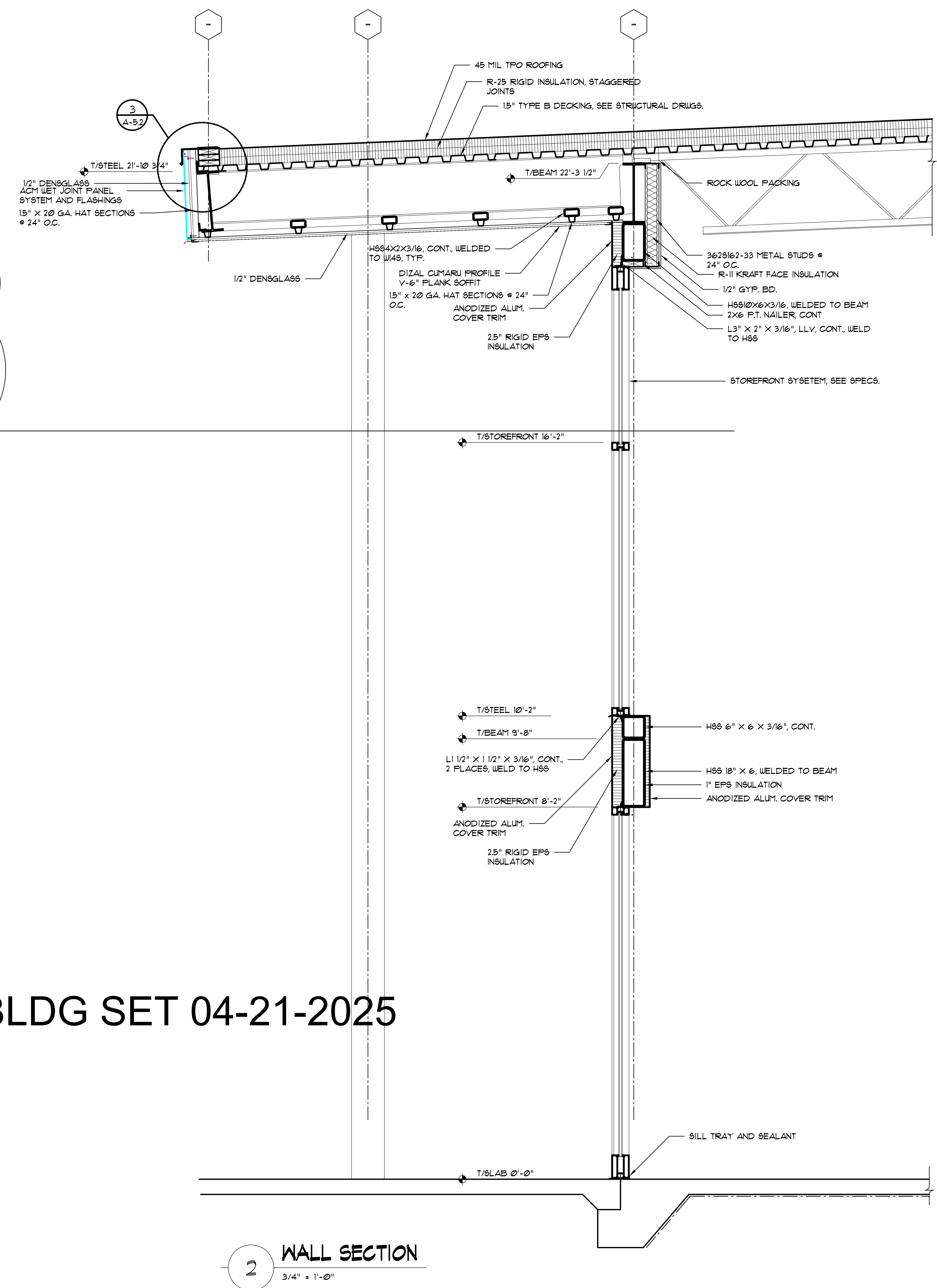
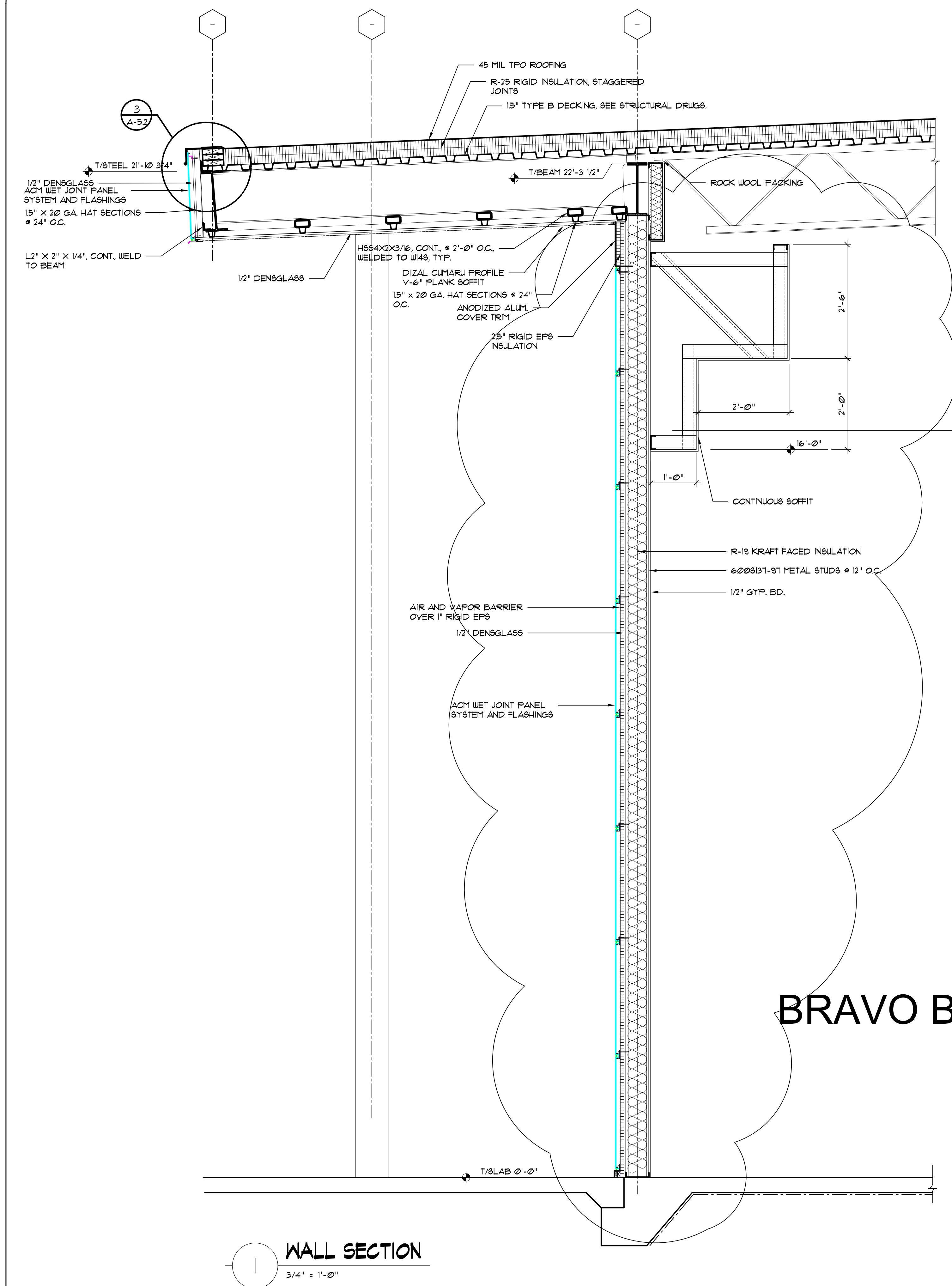
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Issue Date: Initial Drwg. Revision Description:  
07/11/24 E.M.S. 1. DRWG. COORD. W/ CONTR.

Project No.: 2023012  
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Drwg. Revision: 07/11/24  
Drawn By: B.D.G.  
Checked By: E.M.S.  
File Name: 2023012 A-4.9

Sheet Title:  
WALL SECTIONS

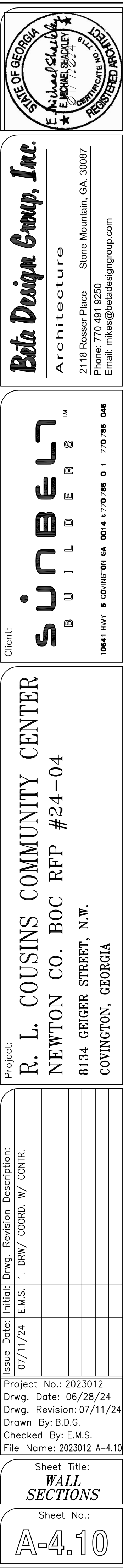
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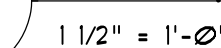
## phase two, for construction





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6641 HWY 6 COUNTINGTON GA 0014 770 786 0 1 770 786 04





GENERAL NOTES:

- ### BUILDING DESIGN CRITERIA:

- 
- ROOF UPLIFT DIAGRAM**
- LOADS SHOWN ARE ASD, UNREDUCED  
/ UNFACTORED WIND UPLIFT LOADS

1. DESIGN SOIL BEARING PRESSURE = 2500 PSF. SOIL BEARING PRESSURE SHALL BE VERIFIED AT TIME OF EXCAVATION AND STRUCTURAL CONSTRUCTION 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 1/2 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.

- 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  $5\frac{1}{2}\% \pm 1\frac{1}{2}\%$  AT POINT OF DELIVERY FOR CONCRETE WITH 1  $\frac{1}{2}$ " 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  $\frac{5}{8}$ " WIDE TO  $\frac{1}{2}$ " 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  $\frac{3}{4}$ ".
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 KEYOLD 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.

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 SPICE LAPS AND CORNER BARS AND HOOKS AT DISCONTINUOUS ENDS. SPLICED BARS SHALL BE SECURELY WIRED TOGETHER. SPICES 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 LAP IN A SINGLE VERTICAL PLANE.

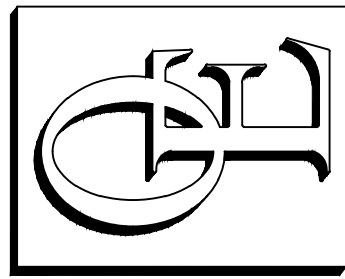
8. REBAR FOR WELDED CONNECTIONS MUST MEET ASTM A706 WHICH ARE SPECIALLY FORMULATED TO BE WELDABLE. STANDARD ASTM A615 GRADE 60 REBARS ARE NOT ACCEPTABLE FOR WELDING. WELDING PROCEDURE SHALL CONFORM TO ANSI/AWS D1.4 "STRUCTURAL WELDING CODE - REINFORCING STEEL". DO NOT TACK WELD.

9. PROVIDE TWO #4 DIAGONAL BARS X 3'-0" LONG IN THE TOP FACE OF ALL SLABS AT ALL REINTRANSIT 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"



**R.L. COUSINS COMMUNITY CENTER**  
**NEWTON CO. BOC RFP #24-04**

**8134 GEIGER STREET, COVINGTON, GA**

**FOR: SUNBELT BUILDERS**

MARK	DATE	BY	DESCRIPTION
1	2-20-2025		ISSUE FOR CONSTRUCTION
	5-6-2024		ISSUE FOR PRICING
	4-22-2024		ISSUE FOR PRICING

DESIGNED: \_\_\_\_\_  
 DRAWN: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 APPROVED: \_\_\_\_\_

OF PROJECT NO: 0E24007  
 FILE NAME: 0E24007-S-CORE.b  
 ORIGINAL DRAWING SIZE: 36"x24"  
 DATE: 2-20-2025

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## STRUCTURAL SPECIFICATIONS

S-0.1  
SHEET 1 OF 12



## STRUCTURAL STEEL NOTES

- STEEL JOIST & GIRDER NOTES:

- METAL DECK NOTES:

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 IN 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

12. PROVIDE ALL ACCESSORIES AS REQUIRED BY THE METAL STUD MANUFACTURER .

PRESSURE TREATED LUMBER NOTE:

**R.L. COUSINS COMMUNITY CENTER**  
**NEWTON CO. BOC RFP #24-04**

**8134 GEIGER STREET, COVINGTON, GA**

**FOR: SUNBELT BUILDERS**

D.D.

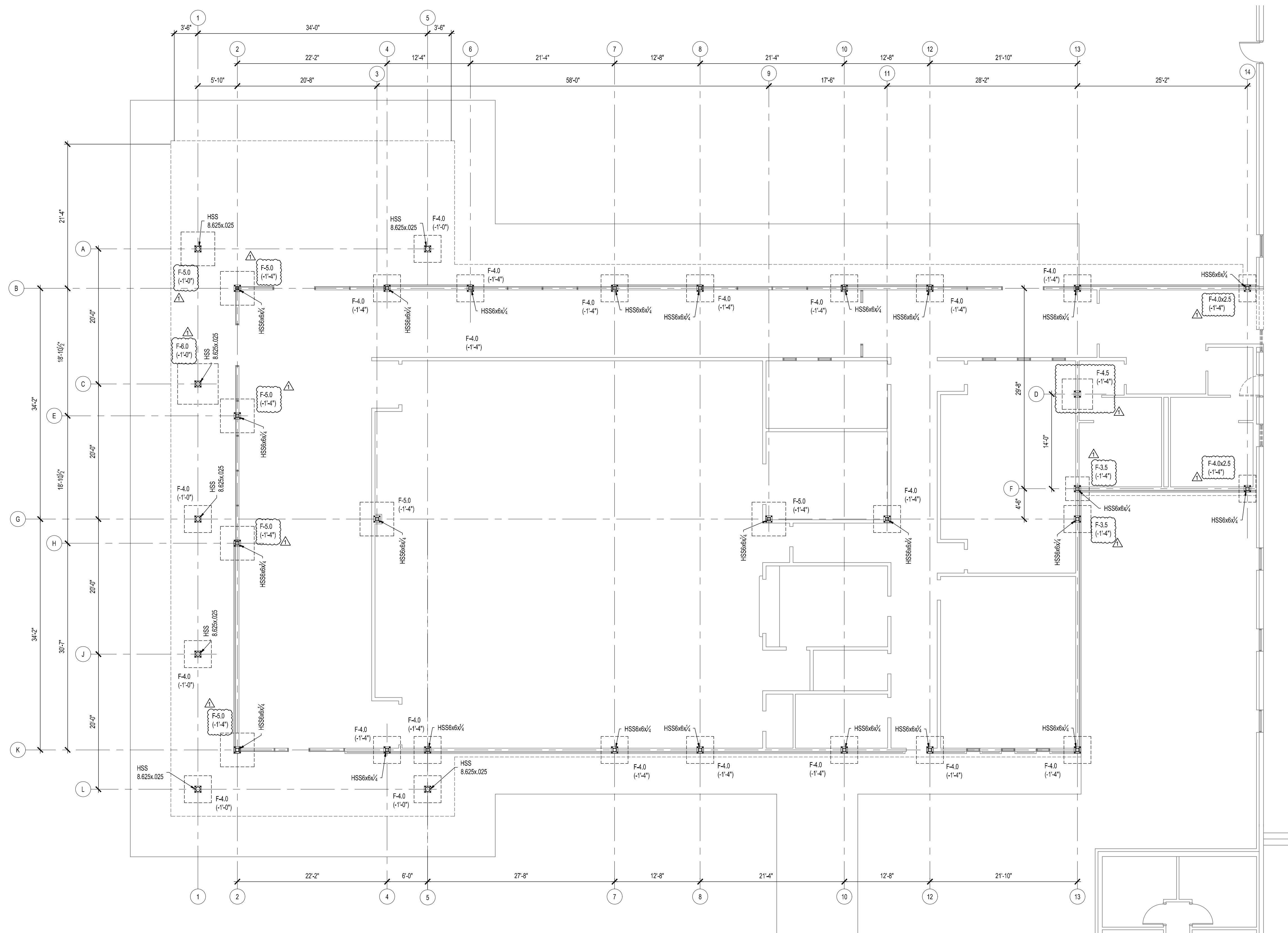
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G SIZE: 36"x24"

S-0.2  
SHEET 2 OF 12



4		5		6		7		8		9		10		11	
SCHEDULE OF SPECIAL INSPECTION SERVICES								SCHEDULE OF SPECIAL INSPECTION SERVICES							
MATERIAL / ACTIVITY		APPLICABLE TO THIS PROJECT						MATERIAL / ACTIVITY		APPLICABLE TO THIS PROJECT					
		SERVICE	Y/N	EXTENT	AGENT*	DATE COMPLETED	SERVICE			Y/N	EXTENT	AGENT*	DATE COMPLETED		
<b>1704.2.5 Inspection of Fabricators</b>								Verify type, size, and location of anchors, including details of anchorage of masonry to structural members, frames, or other construction.							
Verify fabrication/quality control procedures. (May be waived by building official.)		In-plant review	Y	Periodic				Field inspection		Y	Level 1 - Periodic Level 2 - Continuous				
<b>1705.2 Steel Construction</b>								Verify size, grade, and type of reinforcement.							
Material verification of high-strength bolts, nuts, and washers.		Review material markings and certificates of compliance	Y	Periodic				Field inspection		Y	Periodic				
								Field inspection		Y	Continuous				
								Field inspection		Y	Periodic				
								Field inspection		Y	Continuous				
								Field inspection		Y	Continuous				
Inspection of high-strength bolting:		Field inspection						Field inspection		Y	Continuous				
a. Bearing-type connections			Y	Periodic				Field inspection		Y	Continuous				
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				Field inspection		Y	Periodic				
5) Calibrated wrench			Y	Continuous				Field inspection		Y	Continuous				
Material verification of structural steel:								Field inspection		N	Periodic				
a. Identification markings		Field inspection	Y	Periodic				Field inspection		N	Continuous				
b. Certified mill tests		Review submittals	Y	Each submittal				Field inspection		N	Continuous				
Weld filler materials.		Review certificate of compliance and field verification	Y	Periodic and each submittal				Field inspection		N	Continuous				
Structural steel welding:		Shop and field inspection						Field inspection		N	Continuous				
a. Complete and partial penetration groove welds			Y	Continuous				Field inspection		Y	Periodic				
b. Multi-pass fillet welds			Y	Continuous				Field inspection		Y	Periodic				
c. Single-pass fillet welds > 5/16"			Y	Continuous				Field inspection		Y	Periodic				
d. Single-pass fillet welds < 5/16"			Y	Periodic				Field inspection		Y	Continuous				
e. Floor and deck welds			Y	Periodic				Field inspection		Y	Continuous				
Reinforcing steel welding:		Shop and field inspection						Field inspection		Y	Continuous				
a. Verification of weldability of steel other than ASTM A 706			Y	Periodic				Field inspection		Y	Continuous				
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				Field inspection		Y	Periodic				
c. Shear reinforcement			Y	Continuous				Review field testing		Y	Periodic				
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											
<b>1705.3 Concrete Construction</b>															
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											
<b>1705.4 Masonry Construction</b>															
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											





#### FOUNDATION NOTES

1. FFE = AS SHOWN ON PLAN.
2. 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.
3. WHERE UTILITY LINES PASS UNDER A FOOTING, PROVIDE RELIEVING ARCH FOR PROTECTION.

## CONC SLAB NOTES

1. FLOOR SLAB & SIDEWALKS SHALL BE 4" THICK CONC REINF W/ 6X6-1W1, 4XW1, 4 WWP @ CENTER OF SLAB (UNLESS NOTED OTHERWISE). SEE PLAN FOR FINISHED FLOOR ELEVATIONS. (REFER TO ARCHITECTURAL DRAWINGS FOR SIDEWALK, PLANTER, & PAVEL LOCATIONS & DETAILS.
2. PROVIDE 4" THICK GRADED AGGREGATE BASE & 10 MIL. POLYETHYLENE MOISTURE BARRIER UNDER INTERIOR FLOOR SLAB. LAP JOINTS OF MOISTURE BARRIER 6" MIN & TAPE JOINTS.
3. CONDUITS & PIPES EMBEDDED IN SLABS:
  - 3.1. SHALL NOT BE LARGER IN OUTSIDE DIM THAN  $\frac{1}{3}$  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 2" MUST BE MAINTAINED OVER THE EMBEDDED ITEMS.

## FOOTING SCHEDULE

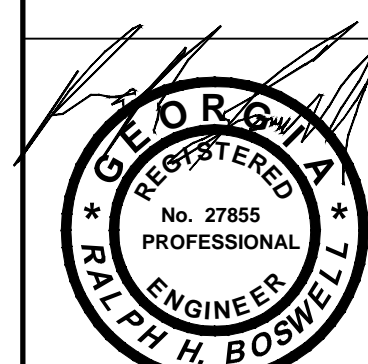
MARK	SIZE	TH	REINF	BASE PL
F-2.0	2'-0"X2'-0"	12"	(3)#4 EW, BOT	12"X12"X6"
F-3.0	3'-0"X3'-0"	12"	(3)#5 EW, BOT	12"X12"X6"
F-3.5	3'-6"X3'-6"	12"	(4)#5 EW, BOT	12"X12"X6"
F-4.0	4'-0"X4'-0"	12"	(5)#5 EW, BOT	12"X12"X6"
F-4.5	4'-6" X 4'-6"	12"	(5)#5 EW, BOT	12"X12"X6"
F-5.0	5'-0"X5'-0"	12"	(6)#5 EW, BOT	12"X12"X1"
F-5.0x2.5	4'-0"X2'-6"	12"	(4)#5 EW, BOT	12"X12"X6"
F-6.0	6'-0"X6'-0"	18"	(8)#5 EW, BOT	12"X12"X6"

\* SEE DETAILS FOR BASE PLATES ON TOP OF FOUNDATION WALLS OR PIERS

F-\_\_\_\_\_ = FOOTING SIZE. SEE FOOTING SCHEDULE  
FOR SIZE & REINF. REQUIREMENTS

(-X'-X'') = TOP OF FOOTING DISTANCE BELOW  
FINISHED FLOOR ELEVATION

**OCONEE  
ENGINEERING L.L.C.**  
STRUCTURAL  
ENGINEERING  
ATHENS, GA/  
LAKE OCONEE  
P.O. Box 116  
2000 West Road  
Greensboro, GA 30642  
P: 770.313.4302  
E: info@oconeengineering.com



2/20/2023

R.L. COUSINS COMMUNITY CENTER  
NEWTON CO. BOC REP #24-04

FOR: SUNBELT BUILDERS

[illegible]

CODE PROJECT NO.: 0E24007 FILE NAME: 0E24007-S-CORE.b ORIGINAL DRAWING SIZE: 36"x24" DATE: 2-20-2025	DESIGNED: DRAWN: CHECKED: APPROVED:
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PHASE TWO  
FOUNDATION  
PLAN

2S-1.0  
SHEET 1 OF 1


BRAVO BLDG SET 04-21-2025

100 FOUNDATION PLAN  
1/8"=1'-0"





1. PROVIDE ROOF DECK SUPPORT 13"x33/4" OR AS SHOWN ON DETAILS AT JOIST BEARING EDGES OF ROOF DECK PERIMETER. WELD ANGLE TO EACH JOIST TOP CHORD. LOCATE JOINTS IN CONTINUOUS ANGLE AT JOIST LOCATIONS. WELD ANGLE TO ANGLE AND ANGLE TO JOIST.
2. ROOF TOP UNIT CURBS SHALL BEAR ON STEEL FRAMING PER DETAIL 427. ROOF TOP UNIT SIZES AND DIMENSIONS TO BE COORDINATED WITH MECHANICAL SUPPLIER.
3. DECK WELD PATTERN SHALL BE 3/64 WITH 4 SIDELAP FASTENERS PER SPAN UNLESS NOTED OTHERWISE. SEE DETAIL 440.

 X.X K - INDICATES ADDITIONAL LOADING TO JOIST OR BEAM. FORCES INDICATED ARE ASD LOADS.

COMPLETE SHOP DRAWINGS FOR CONSTRUCTION OF EACH BUILDING COMPONENT NOT DESIGNED BY THE DESIGN TEAM-OF-RECORD AND NOT SPECIFIED ON THE PROJECT CONSTRUCTION DOCUMENTS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF GEORGIA AND SHALL BE AVAILABLE AT THE JOB SITE DURING TIMES OF INSPECTION.

SHOP DRAWINGS FOR THE FOLLOWING BUILDING COMPONENTS NOT SPECIFIED ON THE PROJECT CONSTRUCTION DOCUMENTS APPROVED FOR BUILDING PERMIT SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF GEORGIA AND SUBMITTED TO MUNICIPAL BUILDING PLAN REVIEW FOR REVIEW AFTER APPROVAL BY THE PROJECT ENGINEER-OF-RECORD:

- 1) AWNINGS / CANOPIES

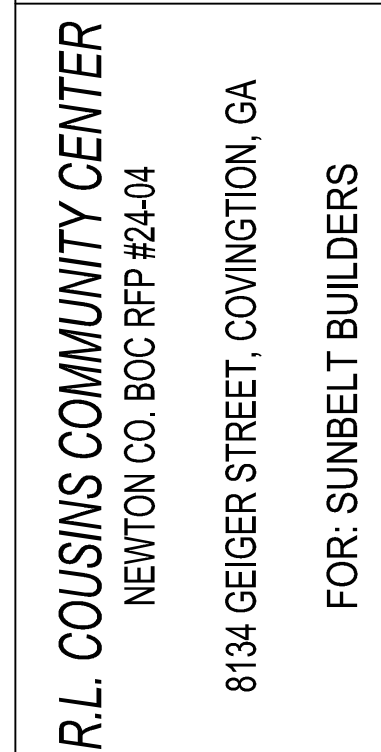
BOTTOM OF ALL FOUNDATIONS SHALL EXTEND A  
MINIMUM OF 12" BELOW TO OF FINISHED GRADE.

PROVIDE MINIMUM 10 MIL. POLYETHYLENE  
MOISTURE BARRIER WITH JOINTS TAPED AND  
LAPPED NOT LESS THAN 6". PROVIDE MOISTURE  
BARRIER DIRECTLY BENEATH ALL INTERIOR  
CONCRETE SLABS ON GRADE.

THE DESIGN OF CONCRETE STRUCTURAL ELEMENTS, INCLUDING WALLS, FORMED SLABS, BEAMS, AND COLUMNS IS IN ACCORDANCE WITH ACI 318-11 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.

BOLTED CONNECTIONS SHALL BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH RCSC-2009 SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS.

STRUCTURAL WELDED JOINTS SHALL CONFORM TO THE PROVISIONS OF AWS D1.1-10, STRUCTURAL WELDING CODE BY THE AMERICAN WELDING SOCIETY. PROOF OF WELDER CERTIFICATION SHALL BE AVAILABLE AT THE JOB SITE DURING TIMES OF INSPECTION.

[illegible]

DE PROJECT NO: 0E24007 FILE NAME: 0E24007-SC0PE0 ORIGINAL DRAWING SIZE: 36"x24" DATE: 2-20-2025	DESIGNED: DRAWN: CHECKED: APPROVED:
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PHASE TWO  
ROOF FRAMING  
PLAN

2S-1.1  
SHEET 7 OF 12

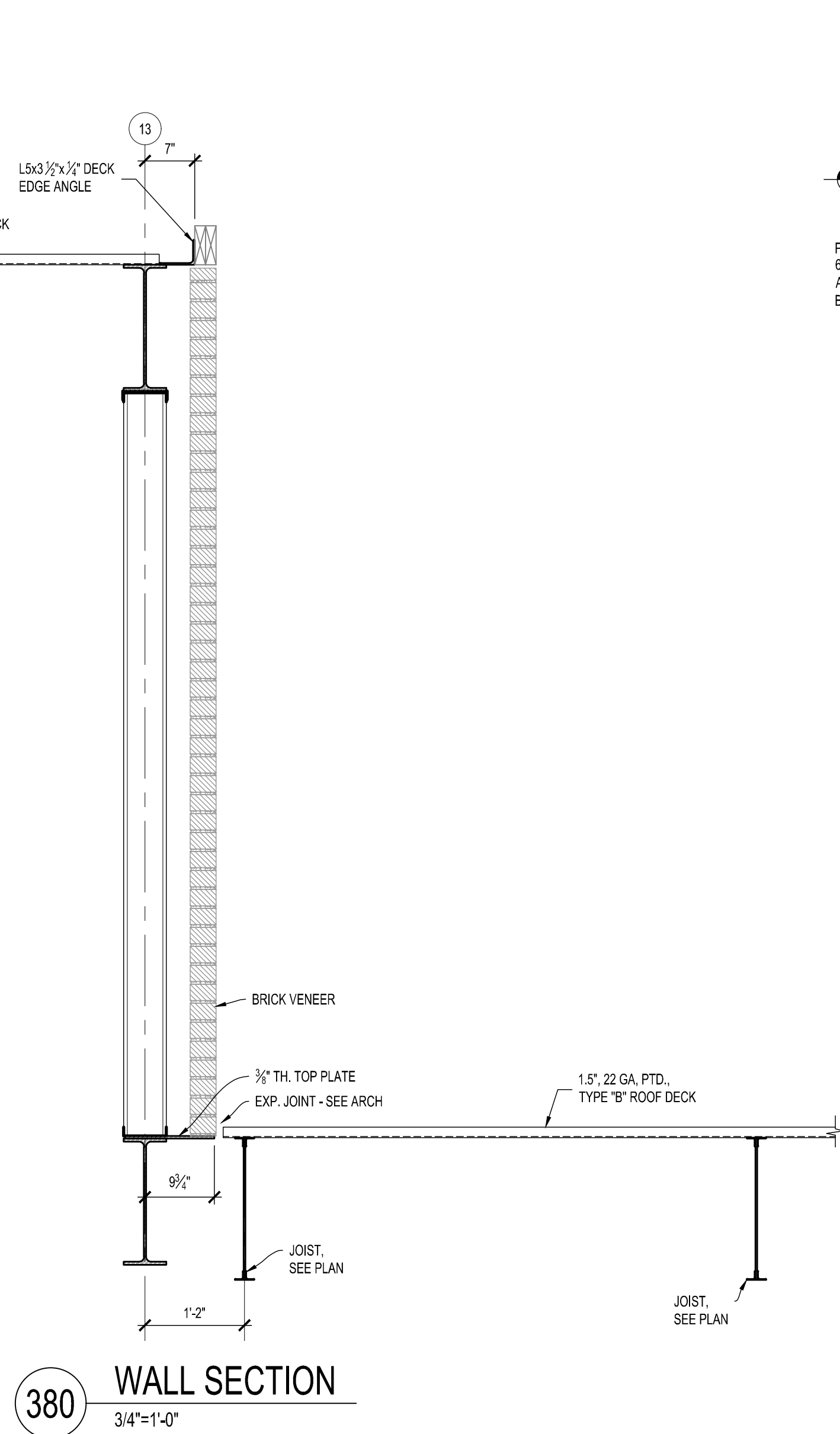
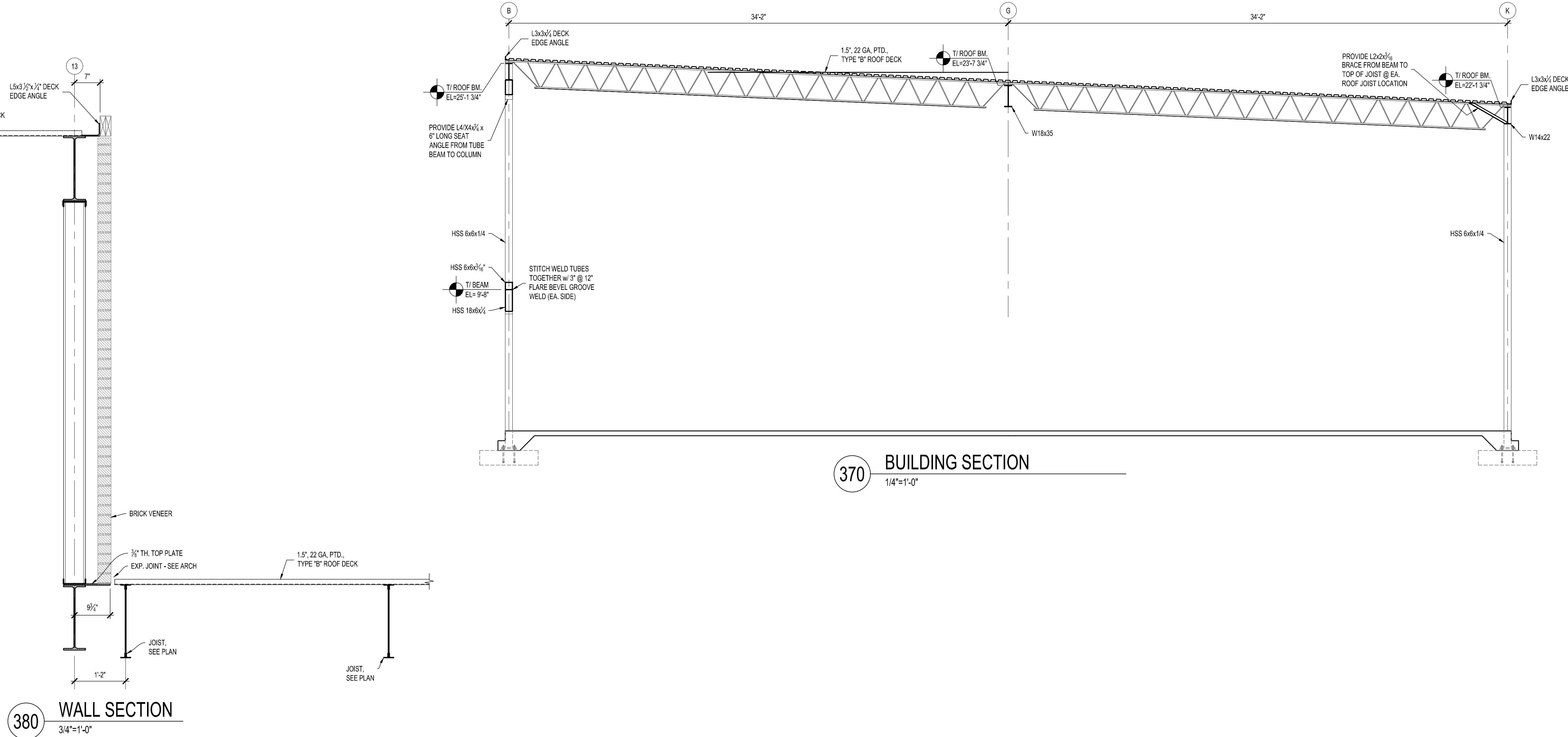




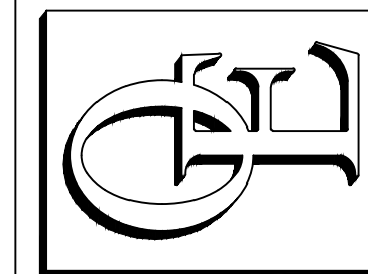








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E: ralph@oconnorengineering.com



2/20/2008

R.L. COUSINS COMMUNITY CENTER  
NEWTON CO. BOC RFP #24-04

8134 GEIGER STREET, COVINGTON, GA

FOR: SUNBELT BUILDERS

[illegible]

OE PROJECT NO.: OE24007  
 FILE NAME: OE24007-SC09Eb  
 ORIGINAL DRAWING SIZE: 36"x24"  
 DATE: 2-20-2025  
 DESIGNED:  
 DRAWN:  
 CHECKED:  
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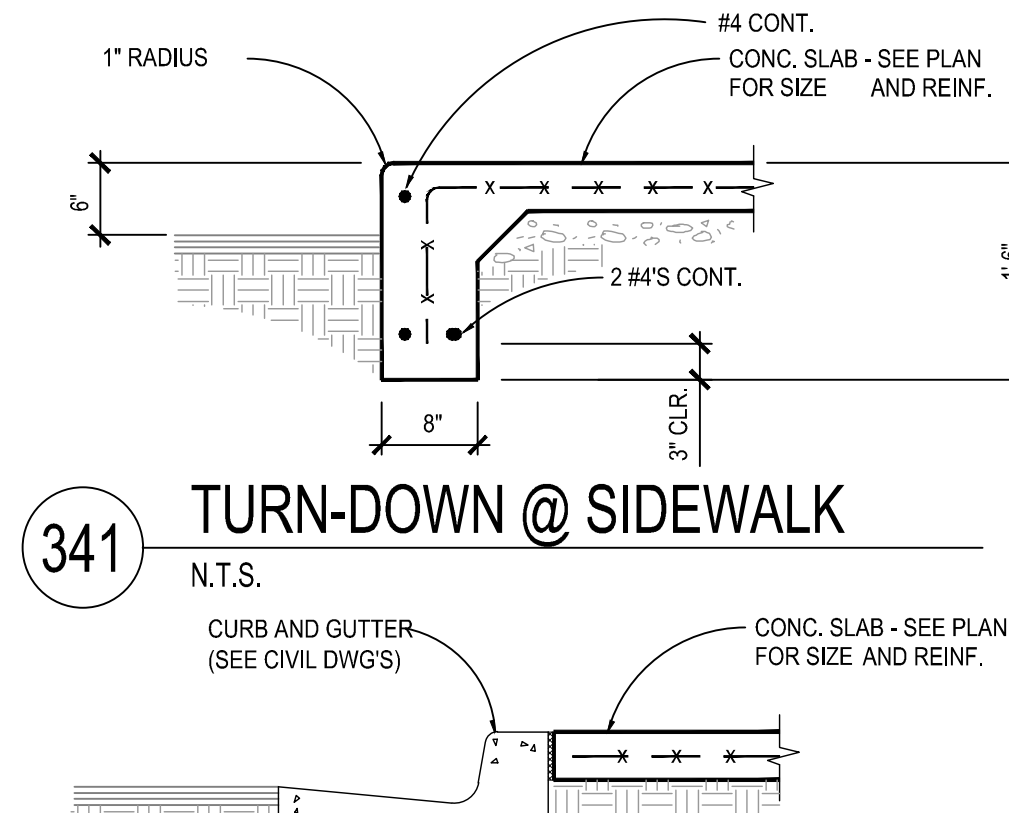
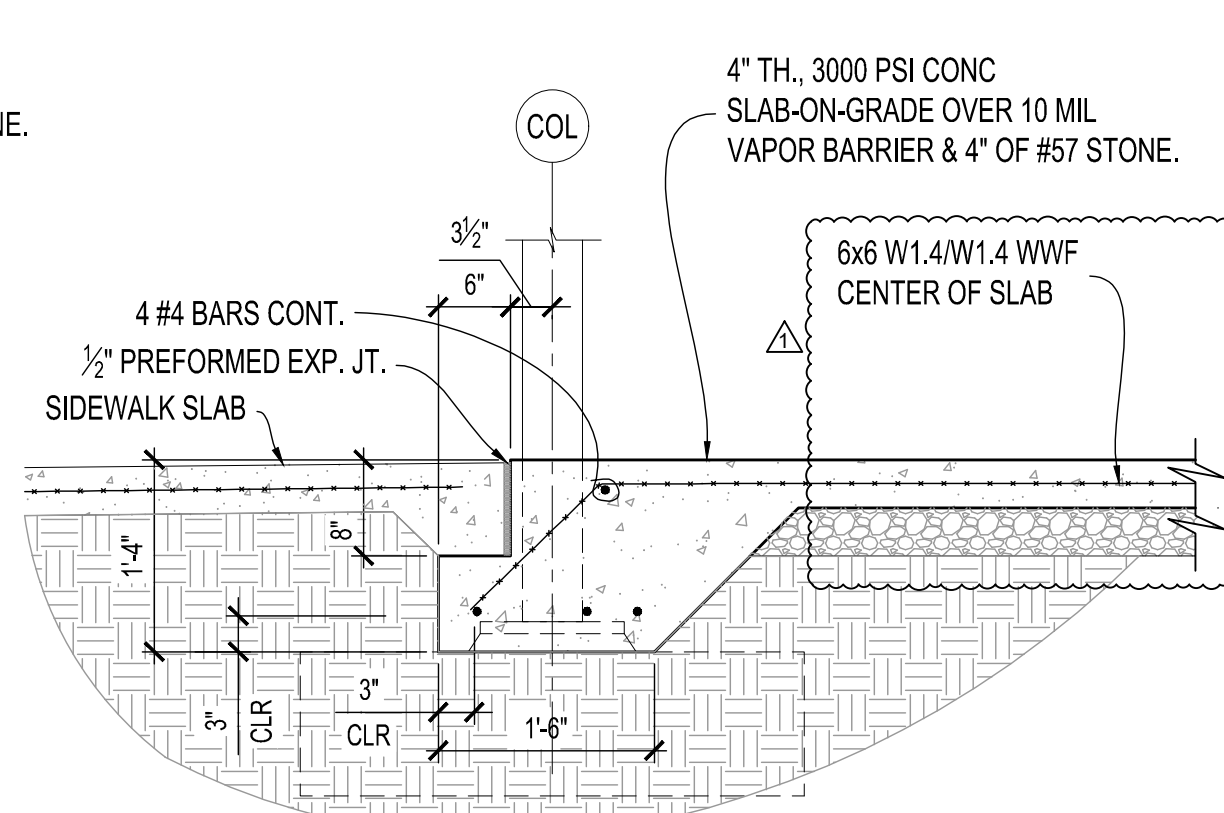
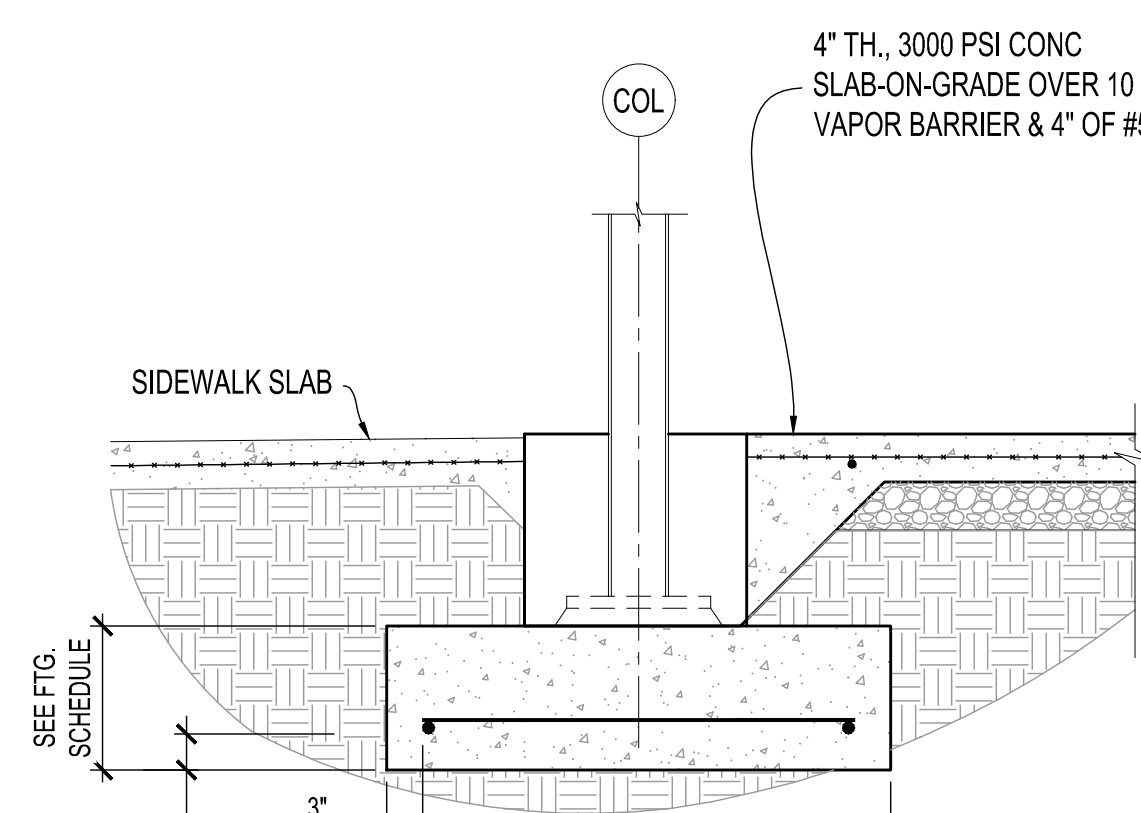
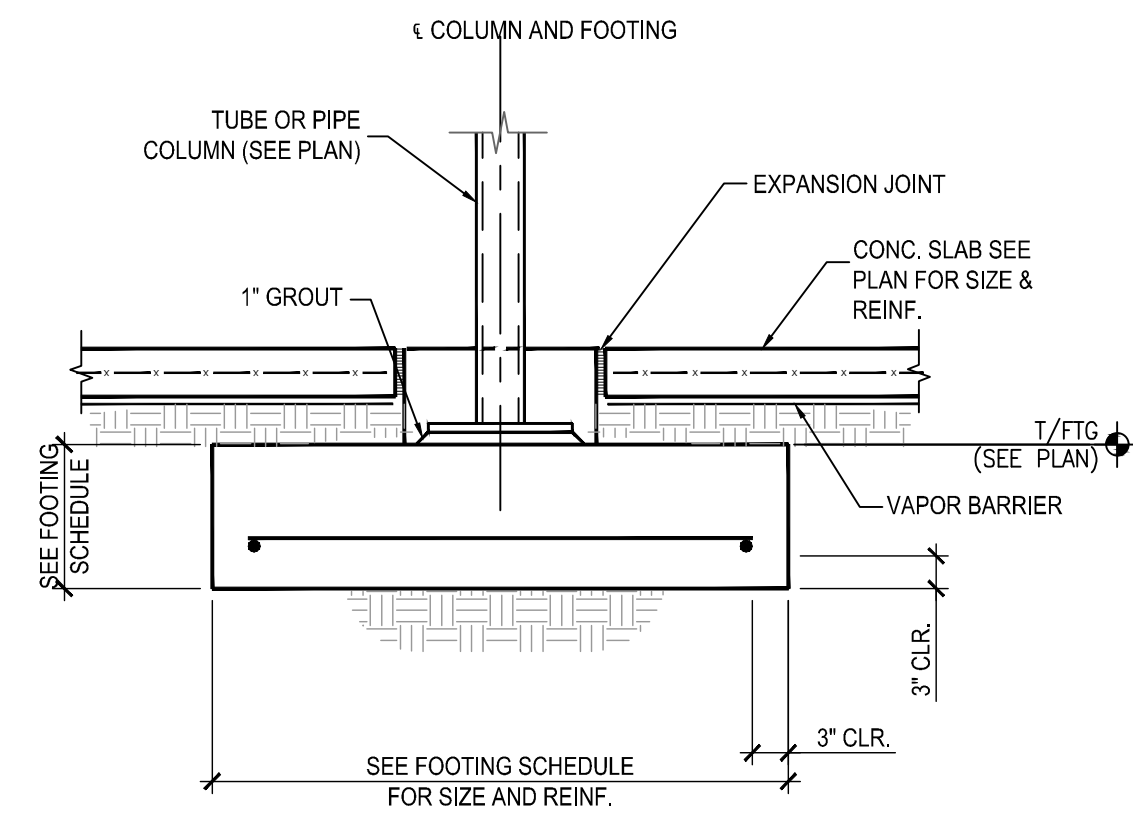
## PHASE TWO

### SECTIONS

2S-3.2  
SHEET 10 OF 12

BRAVO BLDG SET 04-21-2025












[illegible]



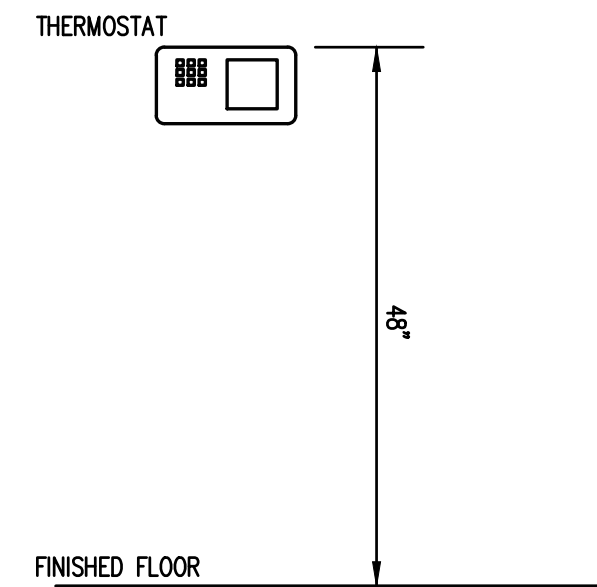
SELF-CLEANING IONIZATION SYSTEM SCHEDULE		
AIRFLOW CAPACITY MIN-MAX CFM	BASIS OF DESIGN GLOBAL PLASMA SOLUTIONS	NOTES
0-2400	GPS-FC24-AC	1:2:3:4:5
0-1200	GPS-FC	1:6:7:8
0-8000	GPS-M00	1:2:3:4:9

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

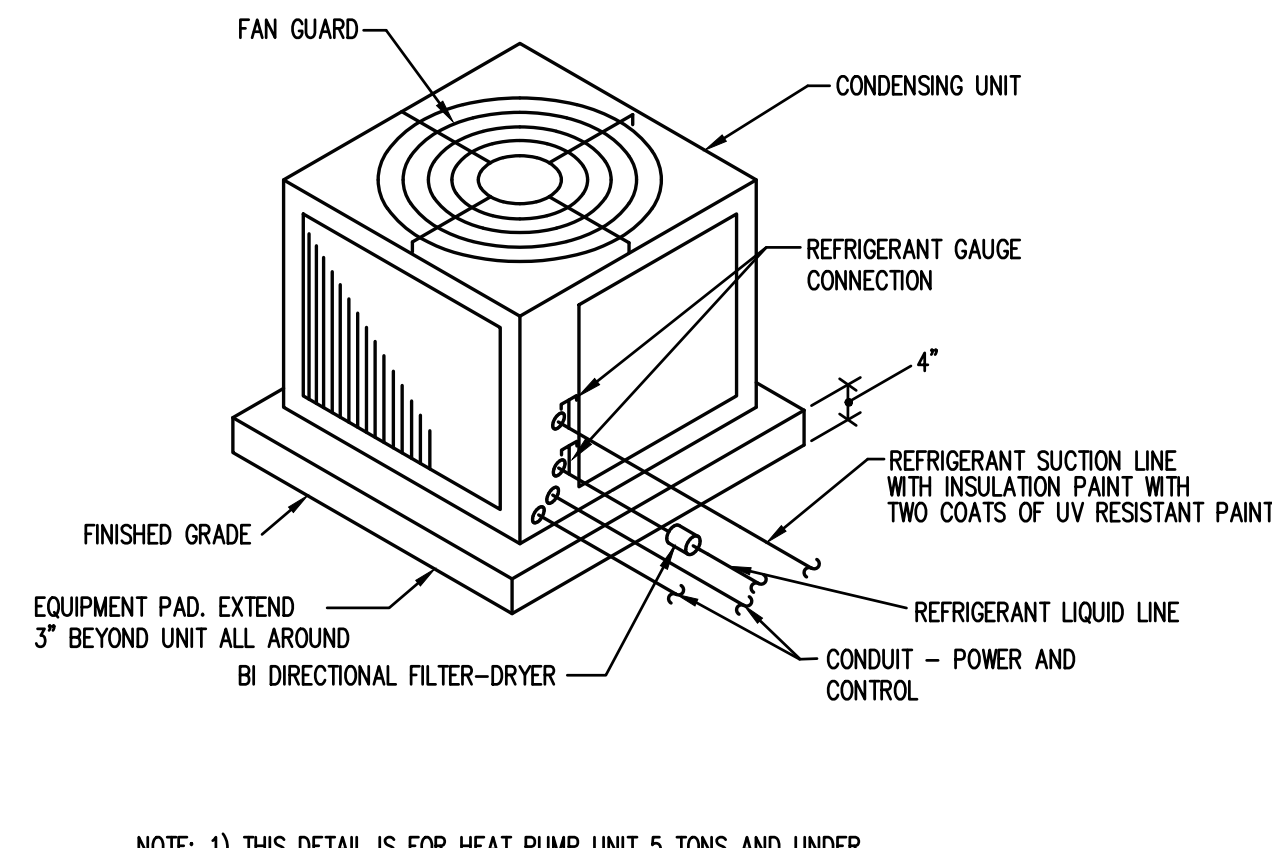
MECHANICAL SYMBOLS & ABBREVIATIONS LEGEND	
	NEW PIPE, DUCTWORK OR EQUIPMENT
	DUCT SIZE: FIRST DIMENSION IS SIDE DRAWN
	FLEXIBLE ROUND DUCTWORK
	FIRE DAMPER, SMOKE DAMPER, SMOKE DETECTOR
	CEILING SUPPLY DIFFUSER
	CEILING RETURN OR EXHAUST AIR
	S.A. DUCT OUT OF TU BOX WITH DUCT LINER FOR THR FIRST FIVE FEET OF DUCT OUT OF TU BOX
	SIDEWALL REGISTER OR GRILLE
	CHANGE IN PIPE OR DUCT SIZE OR SHAPE
	REFRIGERANT PIPING
	CONDENSATE OR OTHER DRAIN PIPING
	ELBOW TURNED DOWN OR TURNED UP IN PIPING
	THERMOSTAT, ARROW SHOWS CONTROL WIRING PATH
	TIME CLOCK
	DIAMETER
	UNDER-CUT DOOR 3/4", UNLESS OTHER SIZE NOTED
	INDICATES EQUIPMENT ON PLANS; TOP ITEM SHOWS TYPE OF EQUIPMENT AND BOTTOM ITEM SHOWS SPECIFIC MARK NUMBER
	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
AF F	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
SA	SUPPLY AIR
VAC, PH	VOLTS ALTERNATING CURRENT, NUMBER OF PHASES
W, KW	WATTS, KILOWATTS
	ACCESS DOOR
	RADIUS ELBOW (R=1.5)
	VANED ELBOW
	MANUAL VOLUME DAMPER (MVD), MOTOR OPERATED DAMPER (MOD)

			
<p><b>SUBBELT BUILDERS™</b></p> <p>Client: _____</p> <p>10041 HWY 8 CONVENTON GA 30014 1770 788 0 / 770 788 048</p>			
<p align="center"><b>R. L. COUSINS COMMUNITY CENTER</b>  <b>NEWTON CO. BOC RFP #24-04</b>   <b>8134 GEIGER STREET, N.W.</b>  <b>CONVENTION, GEORGIA</b></p>			
Issue Date:	Initial:	Dwg. Revision Description:	
Project No.: _____ Dwg. Date: 04/15/24 Dwg. Revision: _____ Drawn By: JWK & KMP Checked By: KMP File Name: _____			
Sheet Title: <b>MECHANICAL SCHEDULES</b>			
Sheet No.: <b>M-0.2</b>			



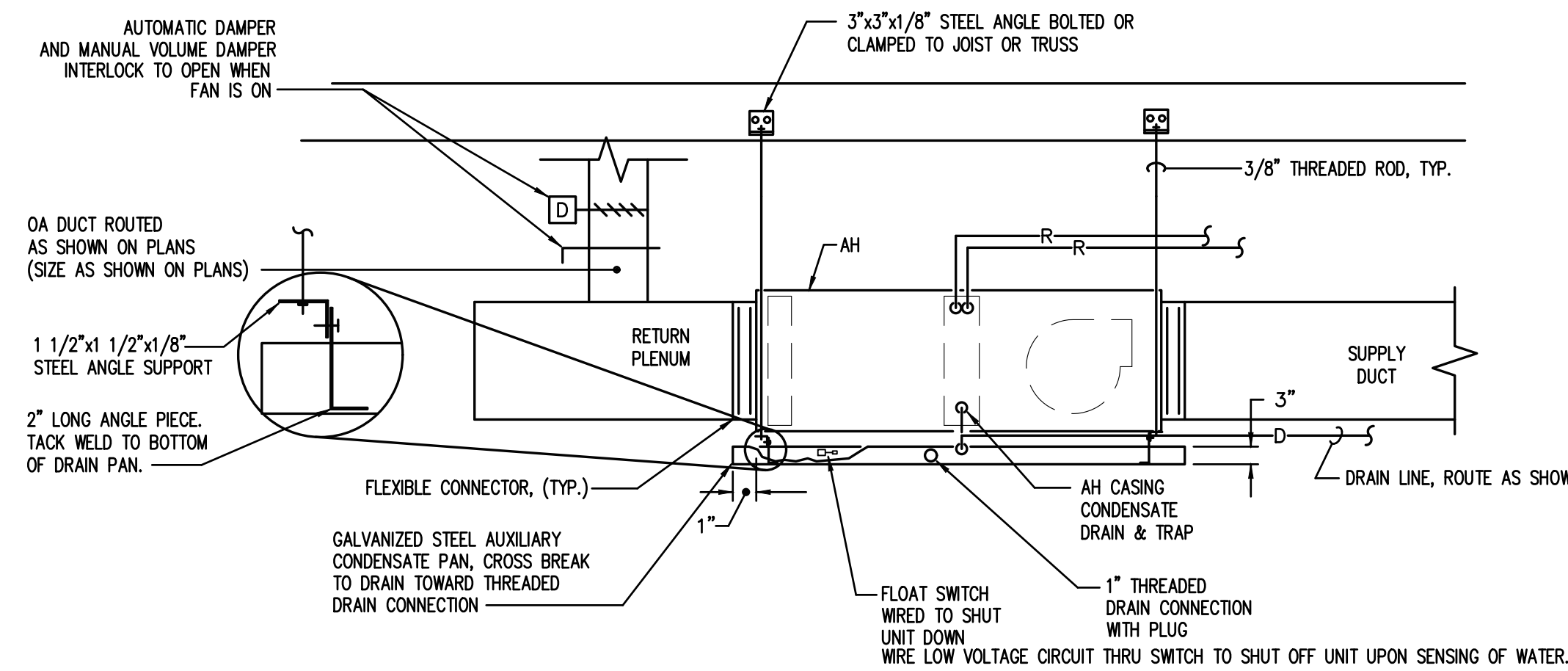


1 T-STAT DETAIL  
SCALE: N.T.S.

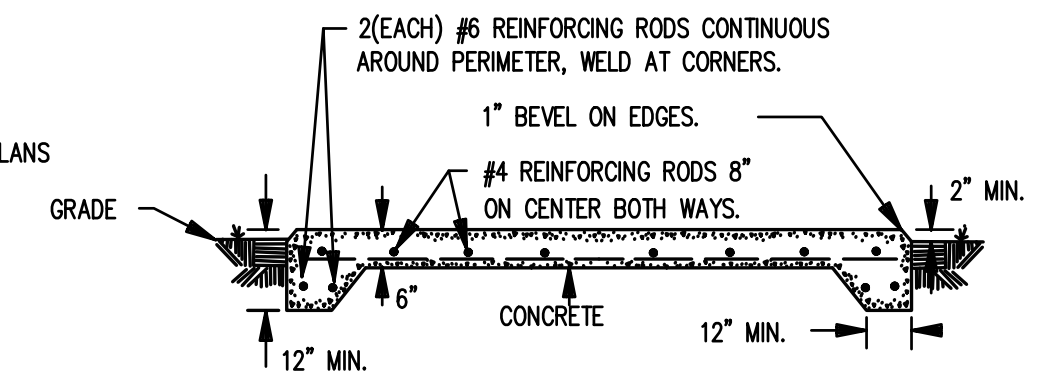


NOTE: 1) THIS DETAIL IS FOR HEAT PUMP UNIT 5 TONS AND UNDER.  
2) PROVIDE 4"x4" WELDED WIRE MESH REINFORCING AT CENTER LINE FOR THE CONCRETE PAD.  
3) PAD MAY BE PREFABRICATED DIVERSITECH ULTRALITE EQUIPMENT PAD OR EQUIVALENT.

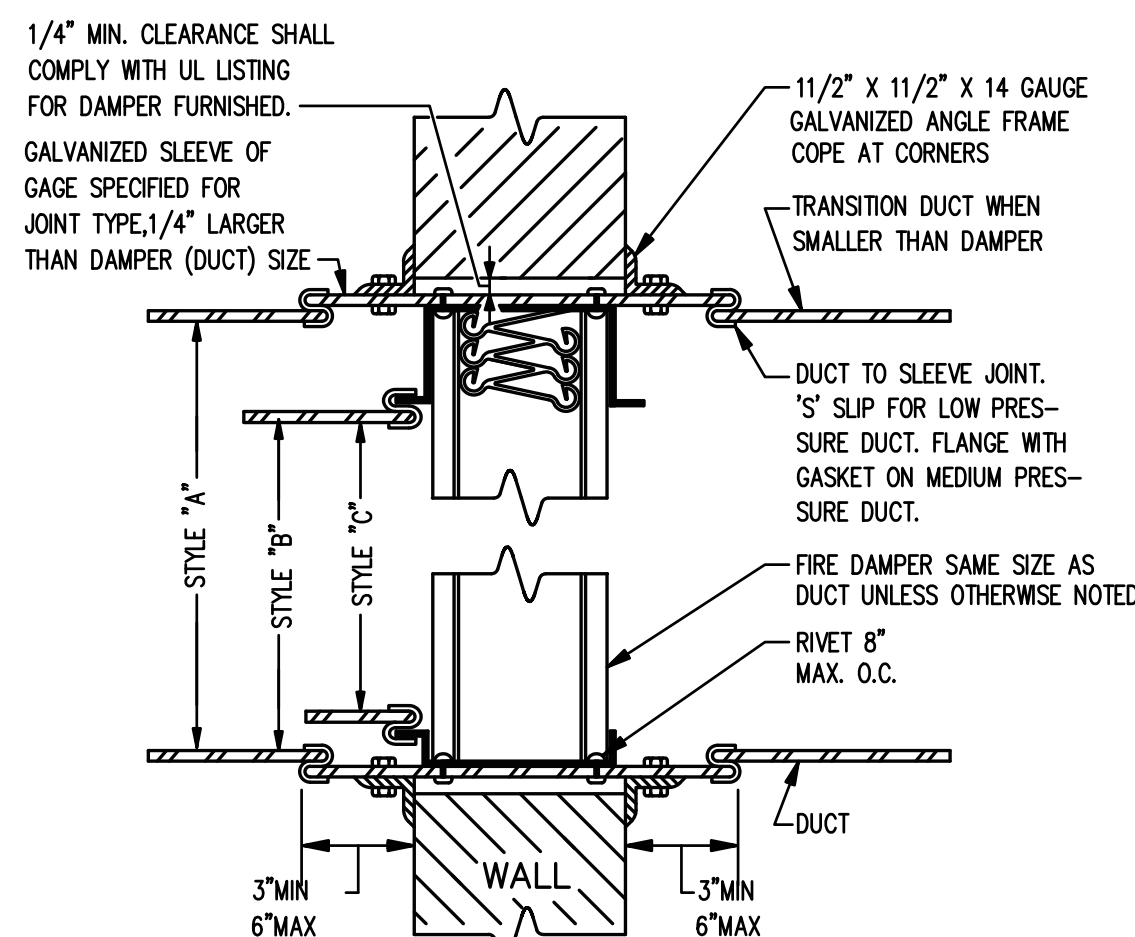
2 AIRCOOLED CONDENSING UNIT SLAB MOUNTED  
SCALE: N.T.S.



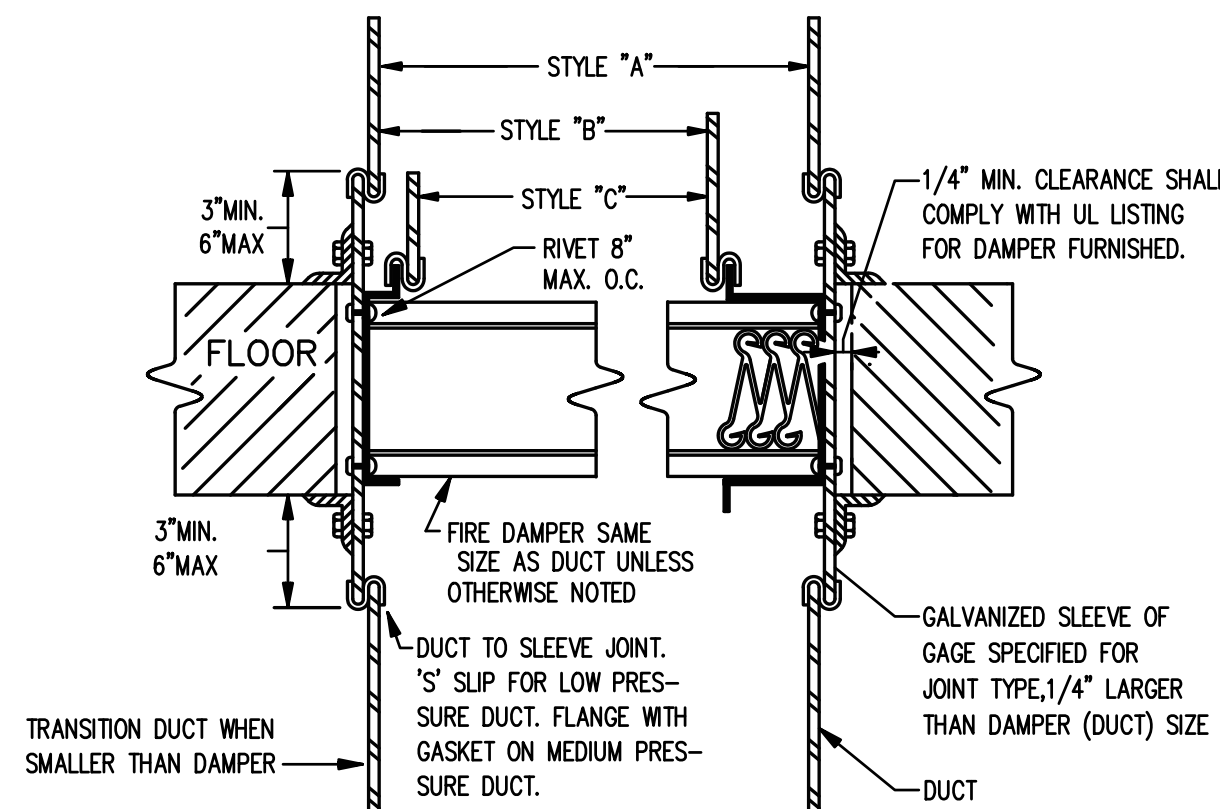
3 AHU WITH AUXILIARY CONDENSATE PAN  
SCALE: N.T.S.



4 EXTERIOR BASE FOR GROUND MOUNTED PACKAGED UNIT DETAIL  
SCALE: N.T.S.



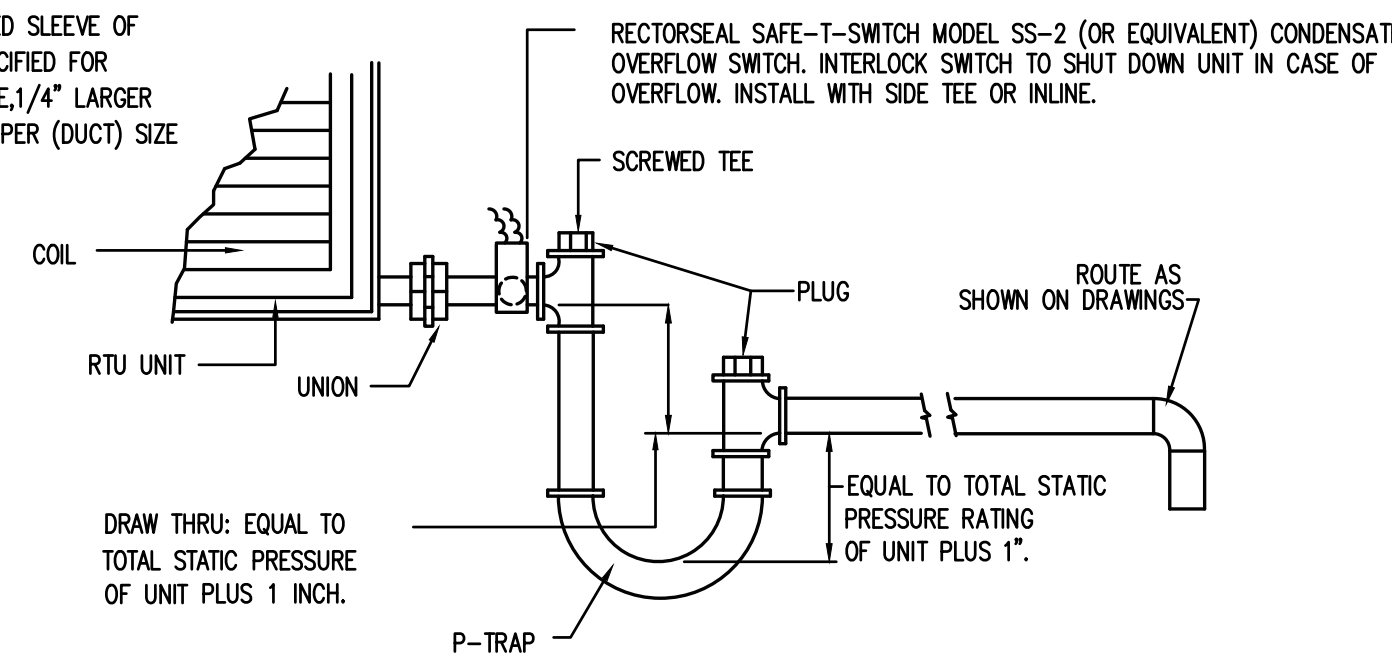
VERTICAL FIRE DAMPER



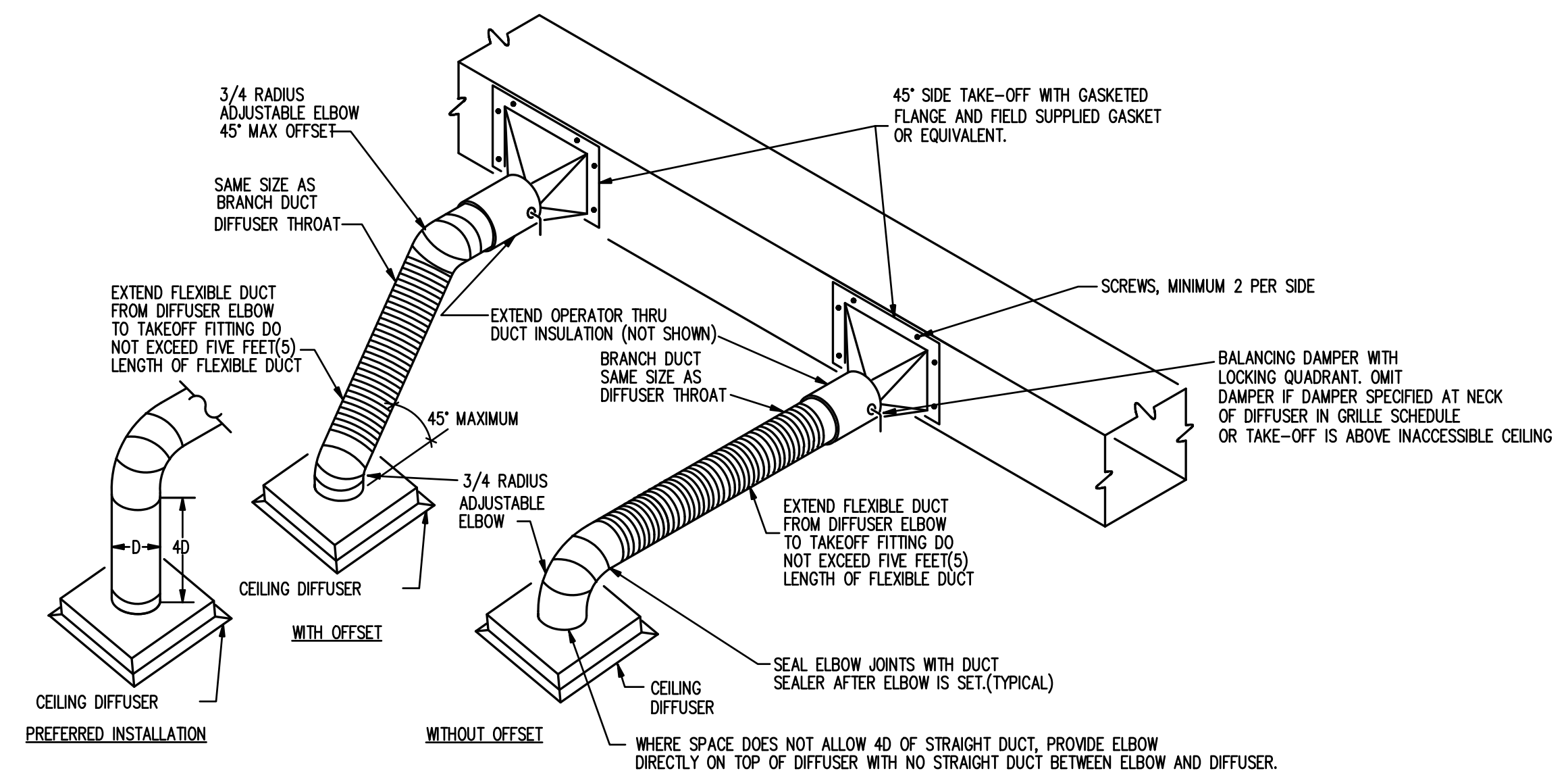
HORIZONTAL FIRE DAMPER

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.

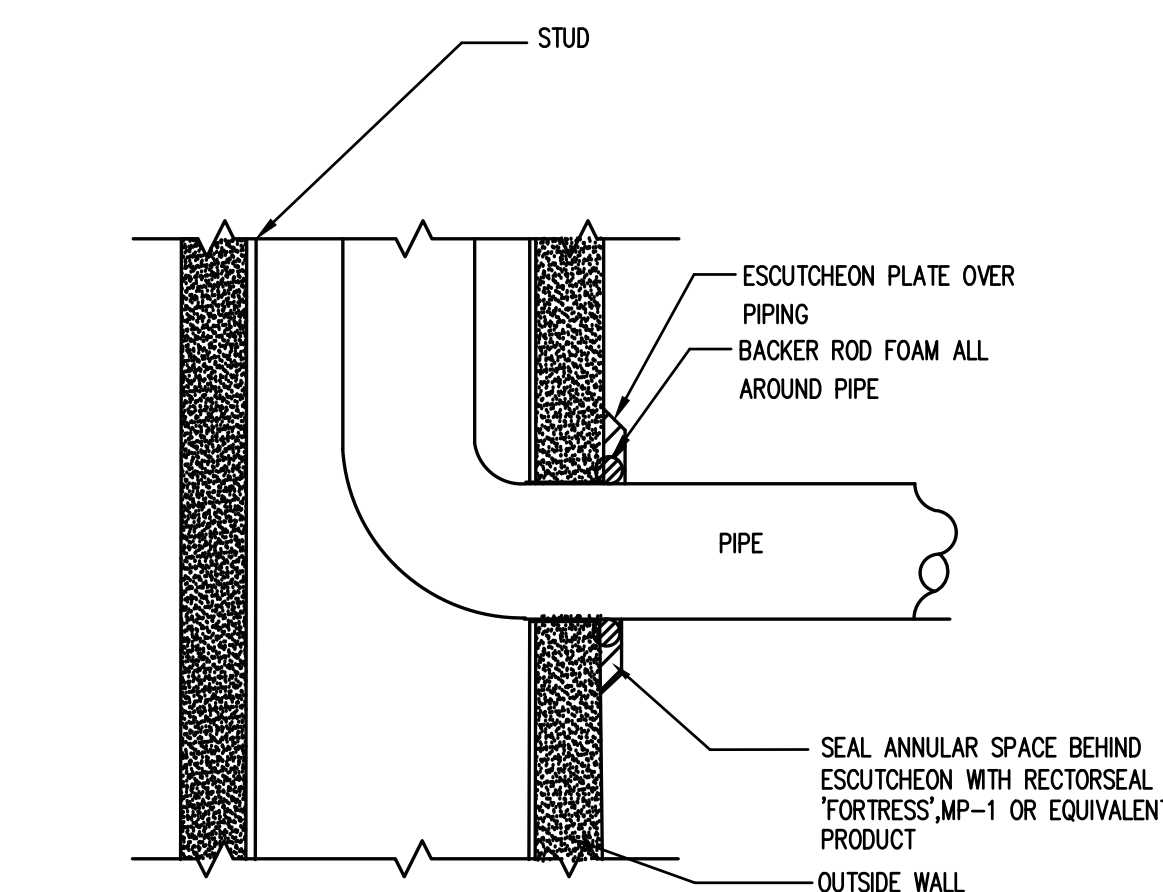
FIRE DAMPER DETAIL  
SCALE: N.T.S.



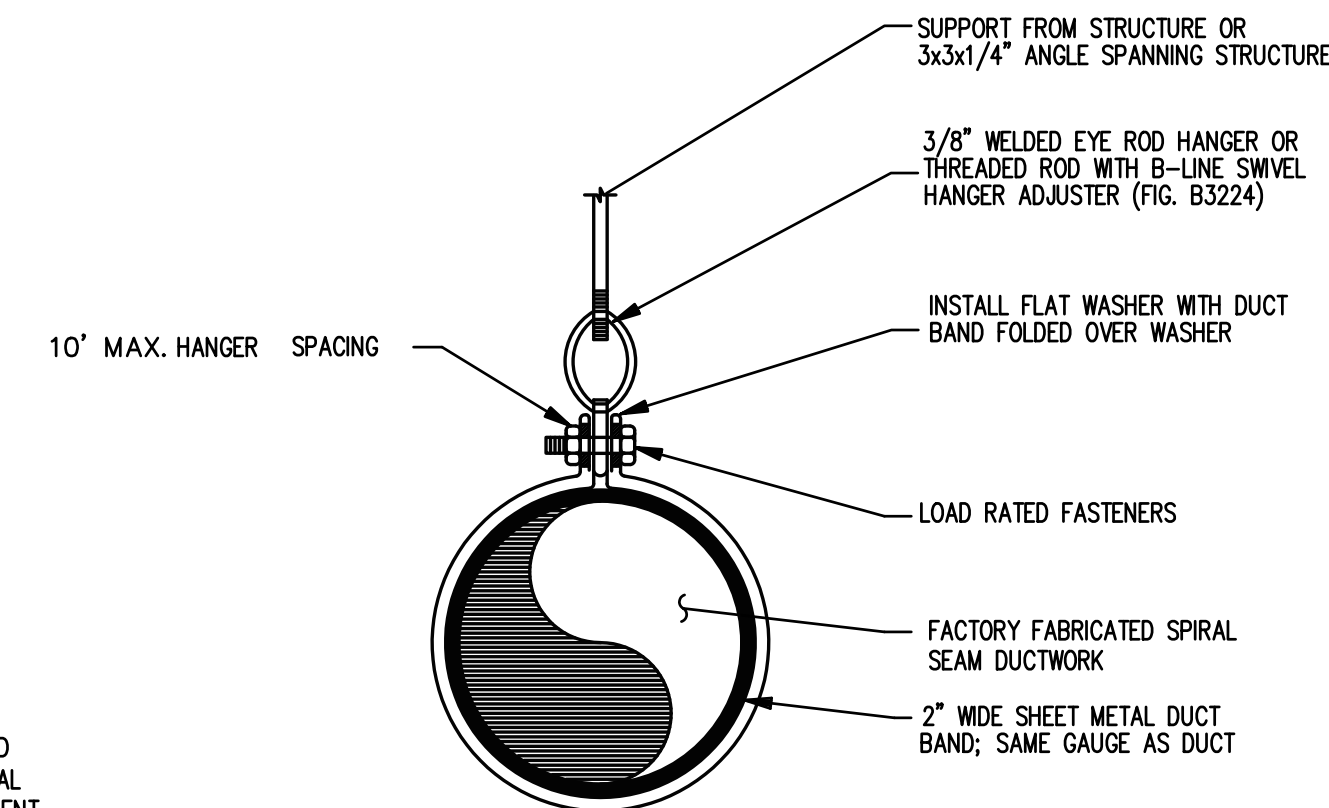
CONDENSATE DRAIN DETAIL  
SCALE: N.T.S.



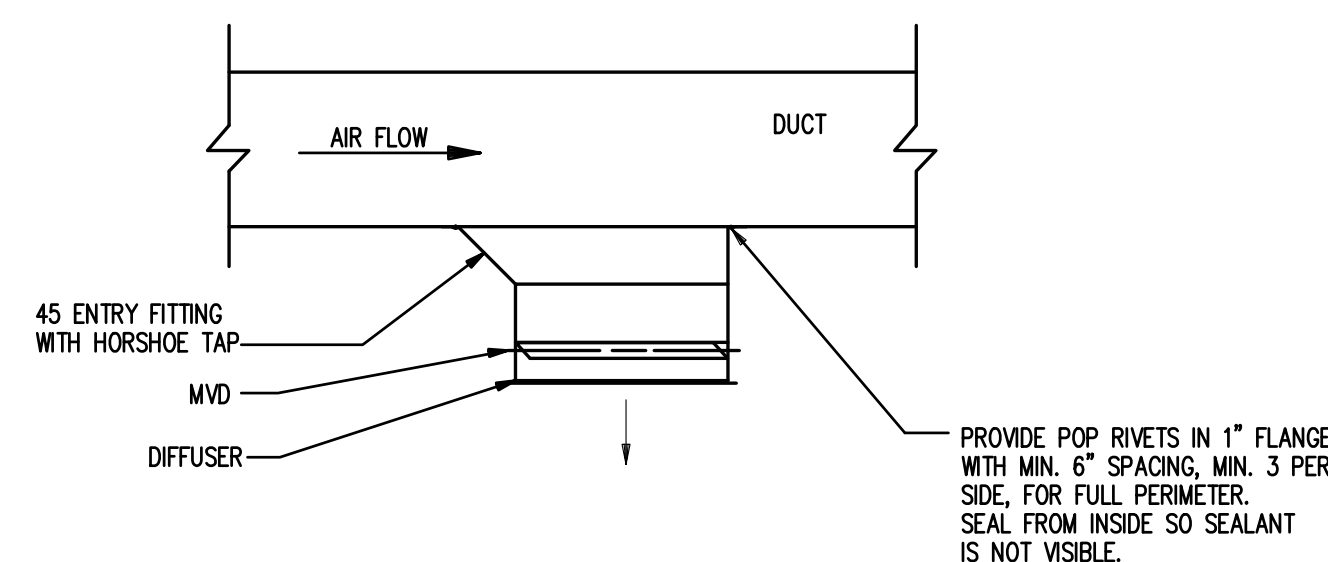
7 DIFFUSER RUN OUT DETAIL  
SCALE: N.T.S.



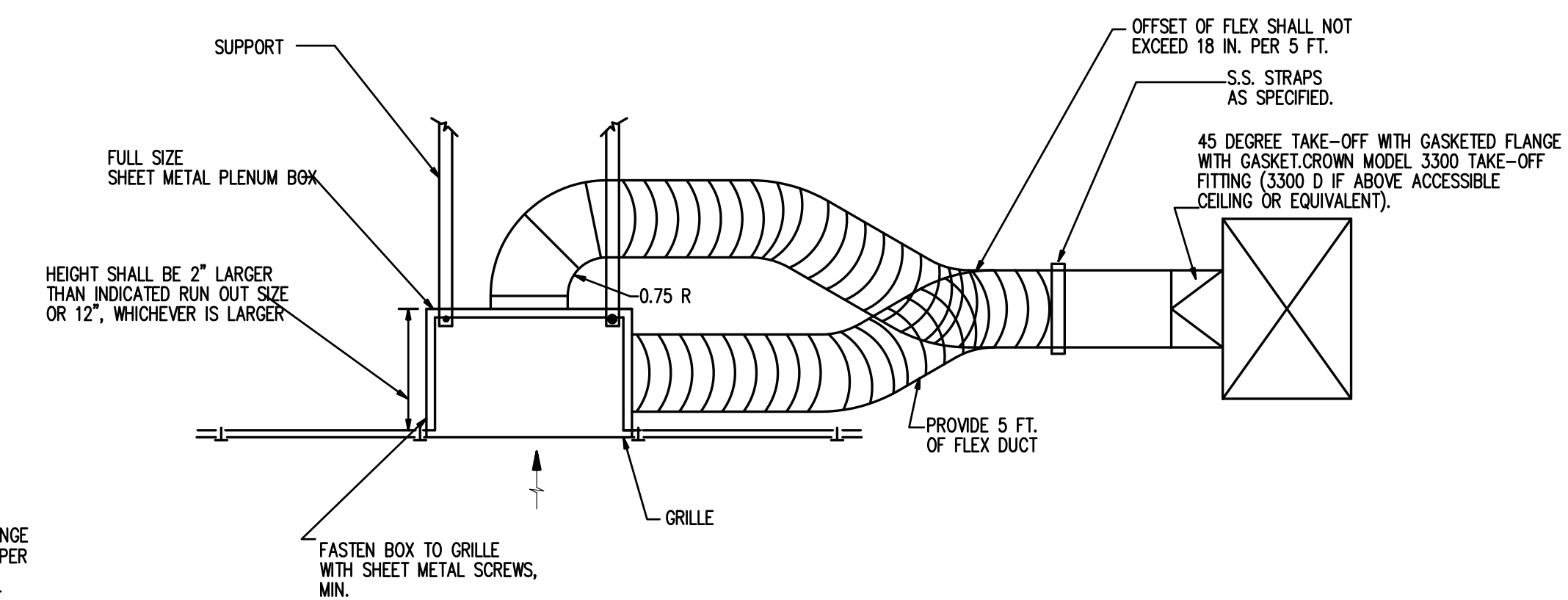
CONDENSATE PIPE SLEEVE THROUGH WALL DETAIL  
SCALE: N.T.S.



DUCT SUPPORT IN EXPOSED AREA  
SCALE: N.T.S.



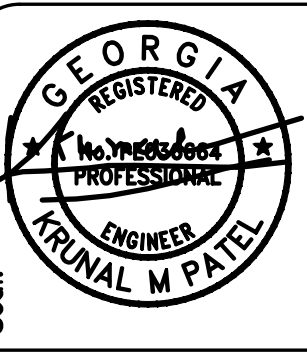
10 DUCT MOUNTED DIFFUSER DETAIL  
SCALE: N.T.S.



11 TYPICAL GRILLE WITH LINED PLENUM DETAIL  
SCALE: N.T.S.

BRAVO BLDG SET 04-21-2025

PHASE 2



TOTAL ENGINEERS  
1609 New Street, Marietta, GA 30067  
(478) 741-4632 - F.E. Project # 23-101  
www.totalengineers.com

Client: **sinbel**  
B U I L D E R S  
10841 HWY 8 CONVENTON, GA 30141 770 788 048

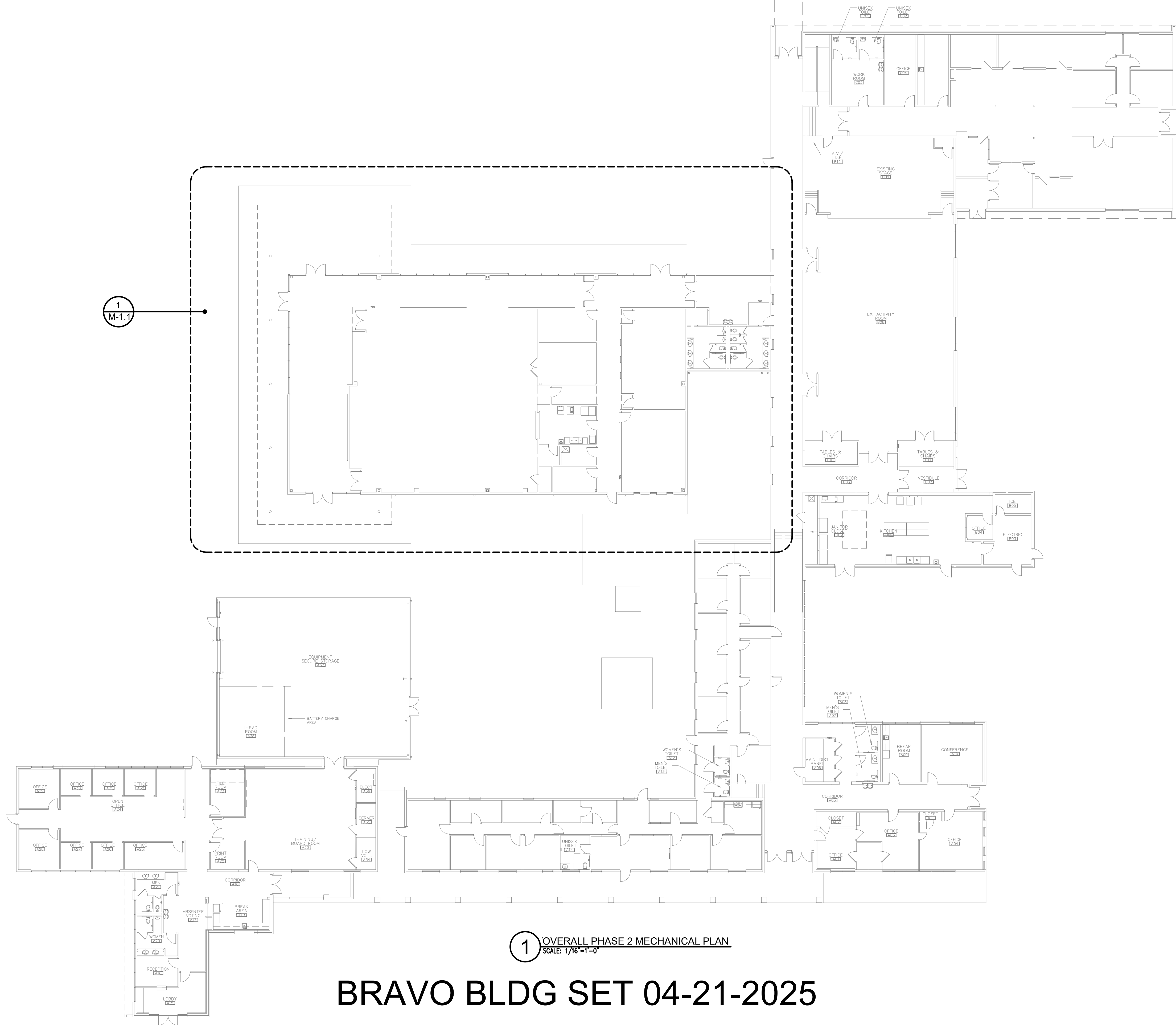
Project: **R. L. COUSINS COMMUNITY CENTER**  
**NEWTON CO. BOC RFP #24-04**  
8134 GEEGER STREET, N.W.  
CONVENTON, GEORGIA

Issue Date:	Initial:	Dwg.	Revision	Description:

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

Sheet Title:  
**MECHANICAL**  
**DETAILS**  
Sheet No.:  
**M-0.3**





1 OVERALL PHASE 2 MECHANICAL PLAN  
SCALE: 1/16"=1'-0"

# BRAVO BLDG SET 04-21-2025

PHASE 2

GEORGIA  
REGISTERED  
PROFESSIONAL  
ENGINEER  
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Project:

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

Issue	Date	Initial	Dwg.	Revision	Description

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

Sheet Title:  
**OVERALL  
MECHANICAL PLAN**

Sheet No.:  
**M-1.0**





- ① BOTTOM OF SIDEWALL RETURN AIR GRILL SHALL BE AT SAME ELEVATION AS TOP OF LAY IN CEILING IN THE CO4 COMPUTER ROOM.
- ② TOP OF DUCT AT BOTTOM OF STRUCTURE.
- ③ CONTRACTOR SHALL OMIT FIRE DAMPER IN CASE WALL IS NT RATED. CONTRACTOR SHALL CHECK RATING OF THE WALL WITH ARCHITECTURAL LIFE SAFETY PLAN BEFORE INSTALLING FIRE DAMPER. TYPICAL FOR ALL FIRE DAMPERS.
- ④ ALL VISIBLE EXPOSED DUCTWORK WITHIN BUILDING SHALL BE SPIRAL DUCTWORK. PROVIDE PAINT GRILL FINISH. NON-VISIBLE DUCTWORK SHALL BE WRAP WITH INSULATION PER SPECIFICATIONS. CONTRACTOR SHALL PAINT PER OWNER/ARCHITECTURAL.
- ⑤ GRILL ELEVATION SHALL BE SAME AS LOWEST NEARBY ROUND/RECTANGULAR CLOUD. GRILL SHALL BE SAME COLOR AS VISIBLE EXPOSED SPIRAL DUCTWORK. TYPICAL FOR ALL AIR-NOZZLE(SI) DIFFUSERS. CONTRACTOR SHALL EXACTLY COORDINATE WITH GC AND ARCHITECTURAL.
- ⑥ TYPICAL YOUNG REGULATOR MODEL 270-896-LO CONCEALED CEILING REGULATOR WITH 7/8" THREADED CEILING CAP. PROVIDE BOWDEN CASING WIRE AS REQUIRED. CONTRACTOR SHALL FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLING MANUAL VOLUME REGULATORS. CONTRACTOR SHALL USE YOUNG REGULATOR FOR DAMPERS LOCATED ABOVE HARD GYP BOARD INACCESSIBLE CEILING. PROVIDE REGULAR MVD WHERE DAMPER IS ACCESSIBLE.
- ⑦ PROVIDE INTERNALLY LINED DOUBLE WALL SPIRAL DUCT ELBOW.
- ⑧ BOTTOM OF GRILL AT TOP OF A DOOR.
- ⑨ 16"X16" RETURN AIR DUCT.
- ⑩ UNIT ACCESS SPACE.
- ⑪ 14"X14" SUPPLY AIR DUCT.
- ⑫ EXHAUST AIR CAP. TOP OF CAP AT BOTTOM OF STRUCTURE.
- ⑬ 10"Ø EXHAUST AIR WALL CAP.
- ⑭ ALL EXHAUST AIR DUCT SHALL BE HARD SHEET METAL DUCTWORK MINIMUM 26-GAUGE TO OMIT FIRE DAMPER. REFER TO FIRE DAMPER COMMISSION DETAIL. TYPICAL FOR ALL EXHAUST AIR DUCTWORK.
- ⑮ 8"Ø OUTSIDE AIR WALL CAP DOWN LOW. CAP SHALL BE AT SAME ELEVATION AS AIR-HANDLING UNIT.
- ⑯ ROUTE CONDENSATE DRAIN TO MECHANICAL YARD. PROVIDE 45-DEGREES ELBOW AT DISCHARGE TO GUIDE CONDENSATE AWAY FROM EXTERIOR WALL. PROVIDE SPLASH BLOCK AT DISCHARGE.
- ⑰ ROUTE CONDENSATE TO MOP SINK AT JANITOR CLOSET.
- ⑱ ROUTE REFRIGERANT PIPES TO RESPECTIVE AIR-HANDLING UNIT LOCATED INSIDE BUILDING. ROUTE AND SIZE PER MANUFACTURER'S INSTRUCTIONS.
- ⑲ CONTRACTOR SHALL TAKE A TAP FROM UNDER THE SPIRAL DUCT. PROVIDE MVD AT TAP.



PLUMBING SPECIFICATIONS

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 120-3-3.20.

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 elastomeric.

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:
- Purge new piping and parts of existing piping that have been altered, extended, or repaired before using.
  - 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:
    - Flush piping system with clean, potable water until dirty water does not appear at outlets.
    - Fill and isolate system according to either of the following:
      - 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.
      - 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.
    - Flush system with clean, potable water until no chlorine is in water coming from system after the standing time.
    - Repeat procedures if biological examination shows contamination.
    - Submit water samples in sterile bottles to authorities having jurisdiction.
  - Prepare and submit reports of purging and disinfecting activities. Include copies of water-sample approvals from authorities having jurisdiction.
  - 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 18.3 Class 150. Flexible connectors shall comply with ANSI Z21.24 of copper alloy. Gas slope 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.

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 concealed 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 satisfactory 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 unco concealed 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 manufacturers: (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.)

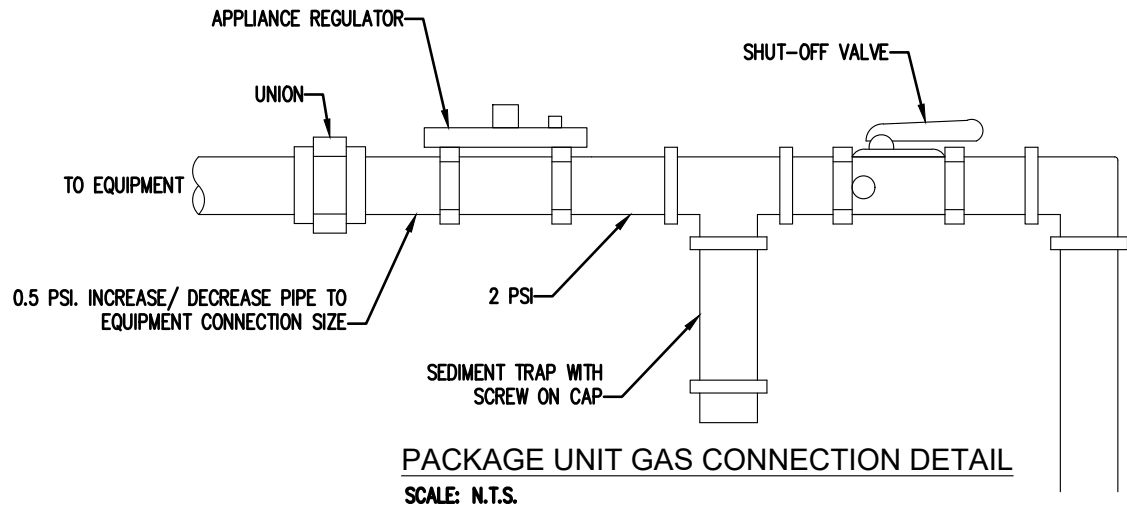
China Fixtures: American Standard, Kohler, Toto, Zurn, Sloan  
Faucets: Delta, T&S Brass, Chicago Faucets, Zurn, Kohler, Grohe, Moen, Speakman, Symmons  
Supplies & Traps: Engineered Brass CO., McGuire, Charlotte Pipe, Brasscraft, IPS, Watts, Zurn  
Flush Valves: Sloan, Delany, Zurn, American Standard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

GENERAL FIRE 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.

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 UNIT WATER HAMMER ARRESTOR		SEWER	NTS	NOT TO SCALE	B.F.F.	BELOW FINISH FLOOR
	DRAWINGS		FIRE SPRINKLER	VT	VENT	FLR	FLR
	GREASE LADEN SEWER		GAS			FFE	FINISHED FLOOR ELEVATION
	OVERFLOW ROOF DRAINAGE		STORM				



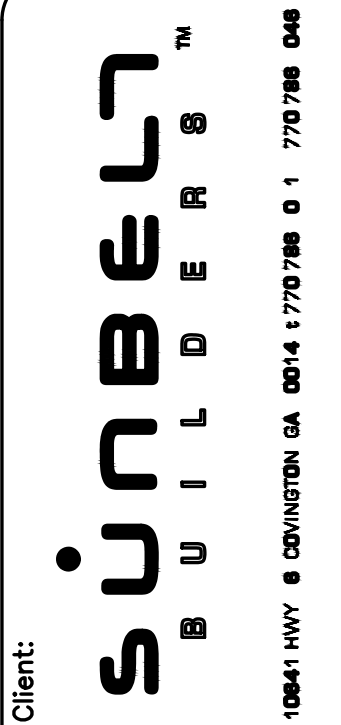
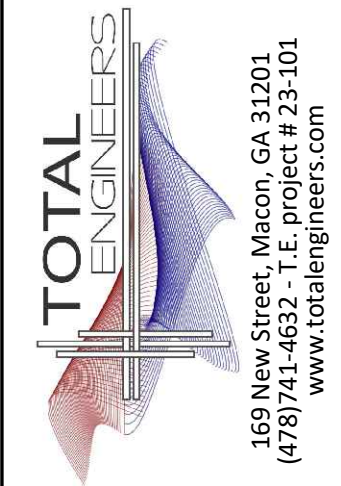
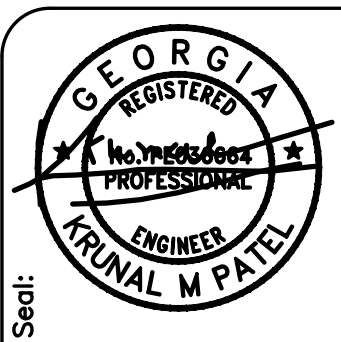
FIXTURE AND EQUIPMENT SCHEDULE									
#	FIXTURE TYPE	WASTE		WATER SUPPLY		WATER FIX. CONN.		MANUFACTURE AND NOTES	
		BELOW FLOOR	FIXTURE CONN.	COLD	HOT	COLD	HOT		
WC1	WATER CLOSET 1.28 GPF	3"	3"	1"		1"		KOHLER K-96053 WATER CLOSET. SLOAN REGAL 111 SFSM-1.28 FLUSH VALVE. BEMIS 1655SSCT SEAT.	
WC2	ADA 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	URINAL 0.125 GPF	2"	2"	3/4"		3/4"		KOHLER K-5452-ET URINAL. SLOAN REGAL 186-0.125 FLUSH VALVE.	
UR2	ADA URINAL 0.125 GPF	2"	2"	3/4"		3/4"		KOHLER K-5452-ET URINAL. SLOAN REGAL 186-0.125 FLUSH VALVE.	
LAV	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.	
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.	
EW	ELECTRIC WATER COOLER W/ BOTTLE FILLER	2"	1-1/4"	1/2"		1/2"		ELKAY EZSWSLK.	
NFWH	NON-FREEZE WALL HYDRANT			3/4"		3/4"		WOODFORD B65.	
HB	INTERIOR HOSE BIBB			3/4"		3/4"		WOODFORD B4.	
FD	FLOOR DRAIN WITH WATERLESS TRAP PRIMER	3"	3"					WATTS FD-190-PR-60 FLOOR DRAIN. RECTORSEAL "SURESEAL PLUS" WATERLESS TRAP PRIMER.	
FCO	FLOOR CLEANOUT	SEE DWG.	SEE DWG.					WATTS CO12. 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.	
HD	HUB DRAIN	2"	2"					WATTS FD-100-DD-60.	
WCO	WALL CLEANOUT	SEE DWG.	SEE DWG.					WATTS CO-450-RD-60.	

PUMP SCHEDULE									
MARK	PUMP TYPE	BASIS OF DESIGN MANUFACTURER	MODEL NUMBER	RPM	HP/ WATTS	GPM	FEET HEAD	*ELECTRICAL VOLTS	PHASE
RC	RECIRCULATION	TACO	006a3	1140-3720	44 WATTS	2	2.53	120	1

CONTRACTOR SHALL CONSULT THE ELECTRICAL DOCUMENTS FOR VOLTAGE AND PHASE

WATER HEATER & TANK SCHEDULE								
MARK	MANUFACTURER	MODEL NUMBER	TYPE	GALLON	KW	MIN. UEF	*ELECTRICAL VOLTS	PHASE
WH-C07	A.O. SMITH	ENT-50	RESIDENTIAL ELECTRIC	50	4.5	0.92	277	1
EV	WATTS	LFBVRM1	COMBINATION BALL VALVE AND RELIEF VALVE					

CONTRACTOR SHALL CONSULT THE ELECTRICAL DOCUMENTS FOR VOLTAGE AND PHASE. WATER HEATERS SHALL HAVE FACTORY-INSTALLED HEAT TRAPS.



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
02	13-25	JWK			SEWER ROUTING REVISION

Project No.:  
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Checked By: KMP  
File Name:

Sheet Title:  
PLUMBING SPECIFICATIONS

Sheet No.:  
P-0.1

BRAVO BLDG SET 04-21-2025

PHASE 2



FIRE PROTECTION BASIC MATERIALS AND METHODS  
(FIRE PROTECTION SECTION 1 OF 2)

- 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; (ANS/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, joining 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.

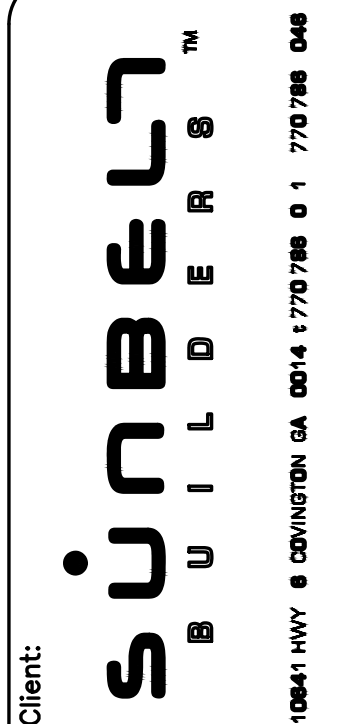
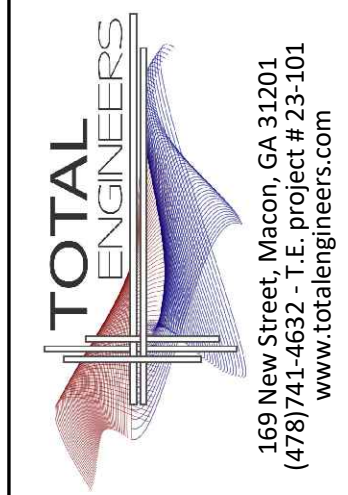
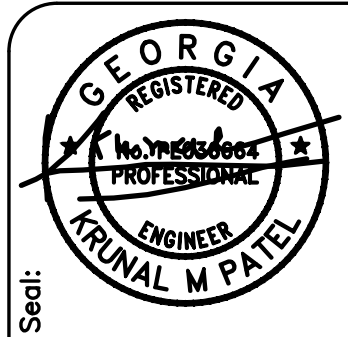
- PART 3 EXECUTION
- 3.1 PREPARATION
- A. Ream pipe and tube ends. Remove burrs. Bevel plain end ferrous pipe.
- B. Remove scale and foreign material, from inside and outside, before assembly.
- C. Prepare piping connections to equipment with flanges or unions.
- D. Storage: All piping shall be stored 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.
- 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 Couplet-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

FIRE SUPPRESSION SPRINKLERS  
(FIRE PROTECTION SECTION 2 OF 2)

- 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 Marshal 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. Sidelall Type: Standard horizontal sidelall 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: Hydrolically operated impeller type alarm with aluminum alloy chrome plated gang 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, Craker 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 staircase 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 point 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 Marshal.
- 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

BRAVO BLDG SET 04-21-2025



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

Issue	Date	Initial	Drawn	Revision	Description
02-13-25	JWK			1	SEWER ROUTING REVISION

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

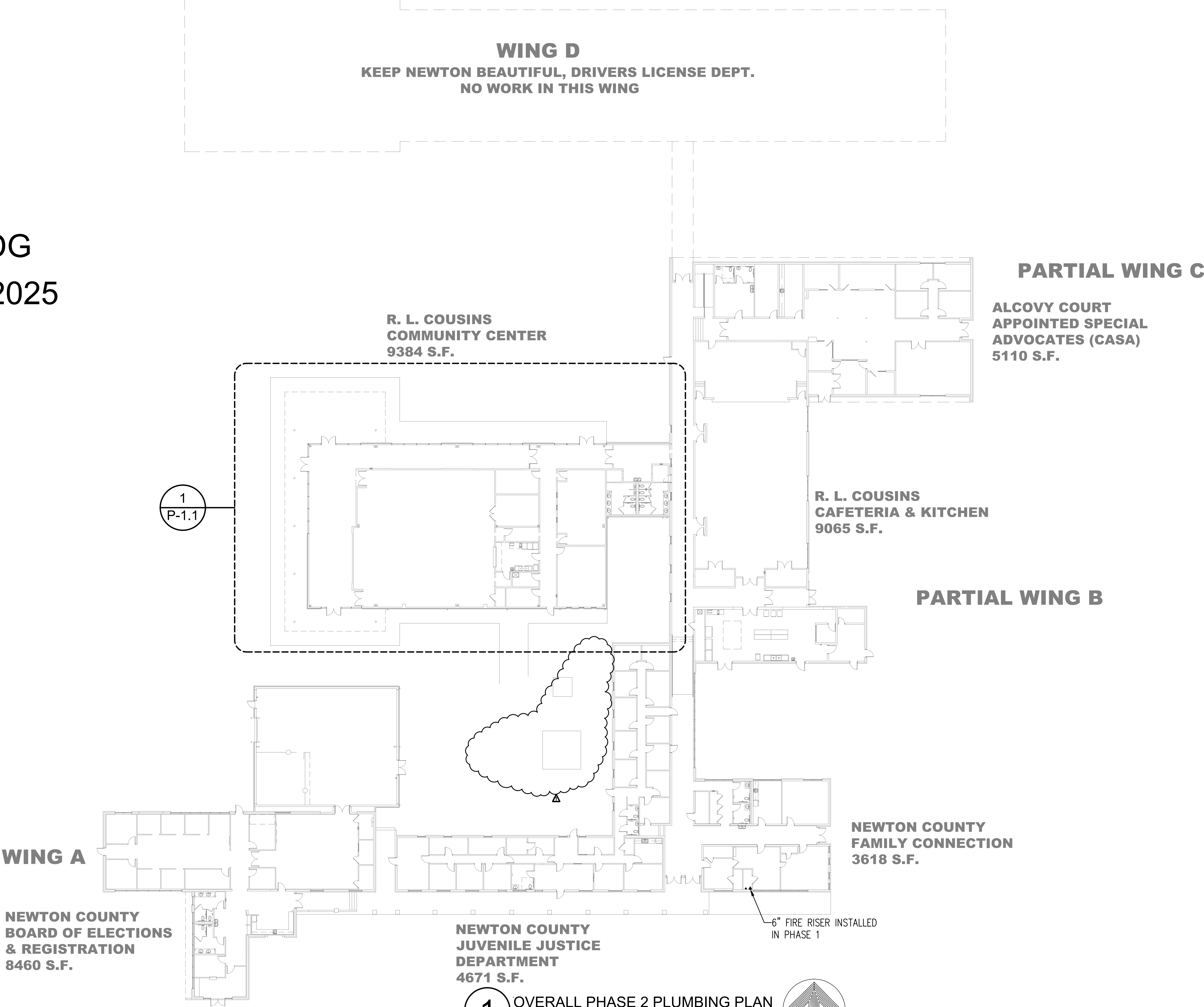
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FIRE SPRINKLER  
SPECIFICATIONS

Sheet No.:  
P-0.2

PHASE 2



BRAVO BLDG  
SET 04-21-2025



1

OVERALL PHASE 2 PLUMBING PLAN  
SCALE: 1"=20'-0"

PHASE 2

GEORGIA  
REGISTERED  
PROFESSIONAL  
ENGINEER  
TRUNAL M. PATEL

Seal:

TOTAL  
ENGINEERS

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

Client:

sunder

BUILDERS™

10841 HWY 8 DOWNTOWN GA 30114 1770788 0 1 770788 040

Project:

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:

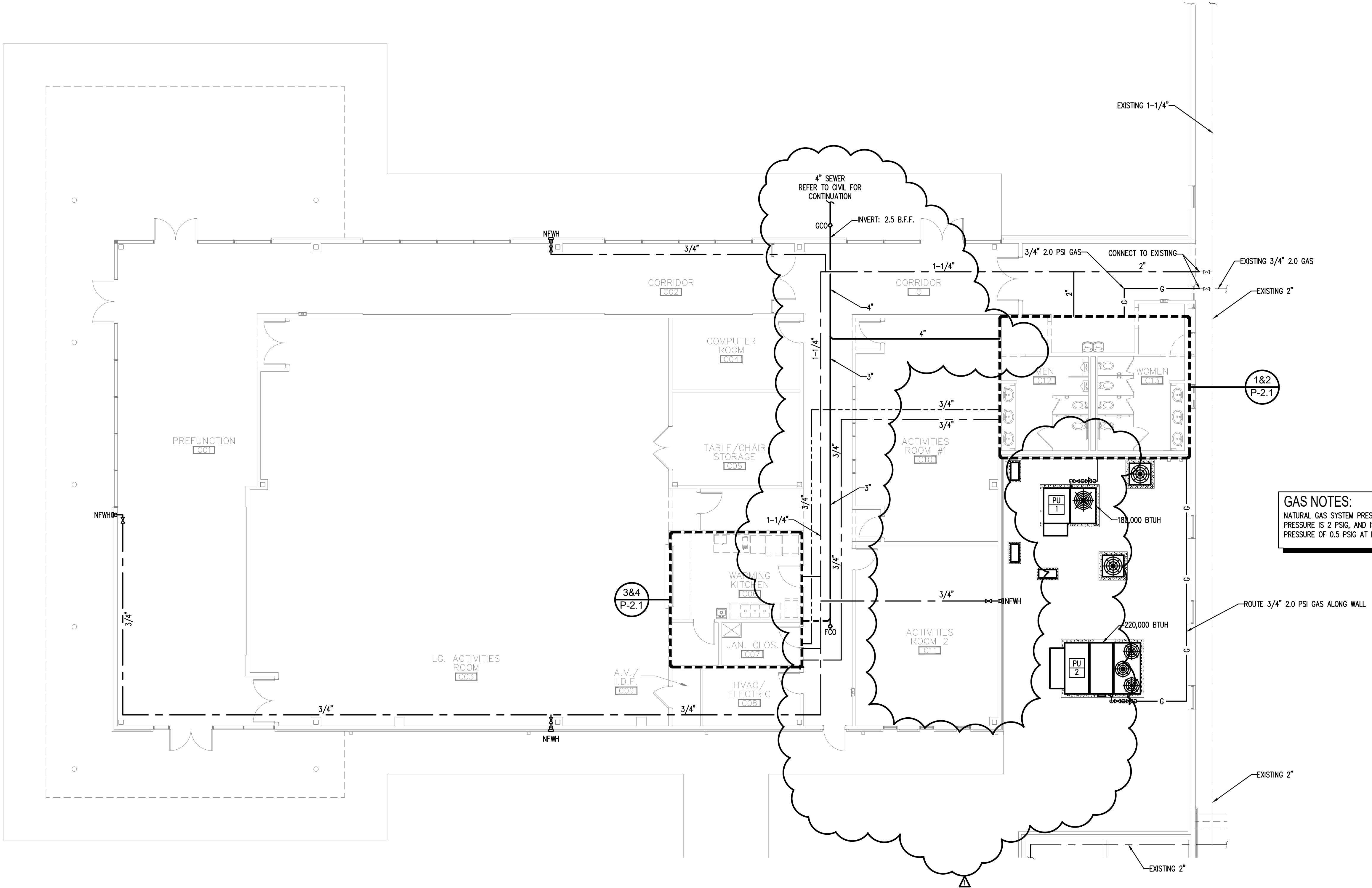
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OVERALL PHASE 2  
PLUMBING PLAN

Sheet No.:

P-1.0





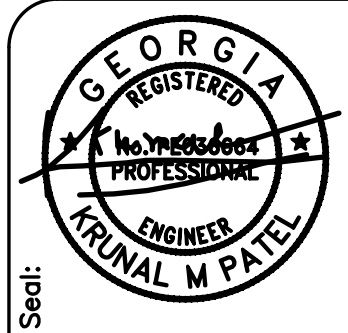
**GAS NOTES:**  
NATURAL GAS SYSTEM PRESSURES WITHIN BUILDING: PRIMARY PRESSURE IS 2 PSIG, AND IS REDUCED TO SECONDARY PRESSURE OF 0.5 PSIG AT INDIVIDUAL POINTS OF USE.

1 COMMUNITY BUILDING PLUMBING PLAN  
SCALE: 1/8"=1'-0"



BRAVO BLDG SET 04-21-2025

PHASE 2



**TOTAL ENGINEERS**  
169 New Street, Macon, GA 31201  
(478) 41-4632 - T.E. Project # 23-101  
www.totalengineers.com

Client: **SUNBELT BUILDERS**  
10041 HWY 8 COVINGTON GA 30014 1770 798 0 1 770 798 048

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

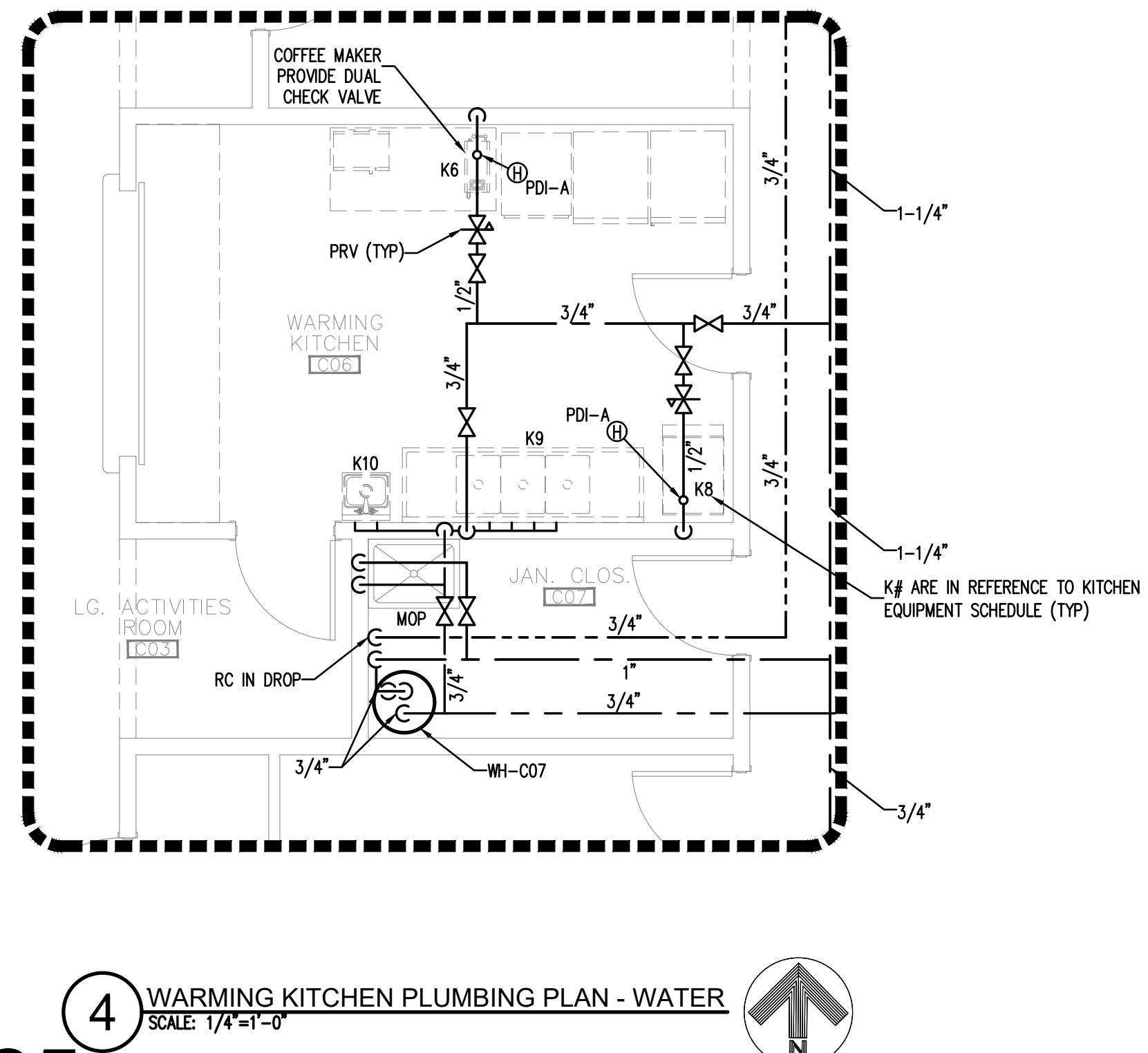
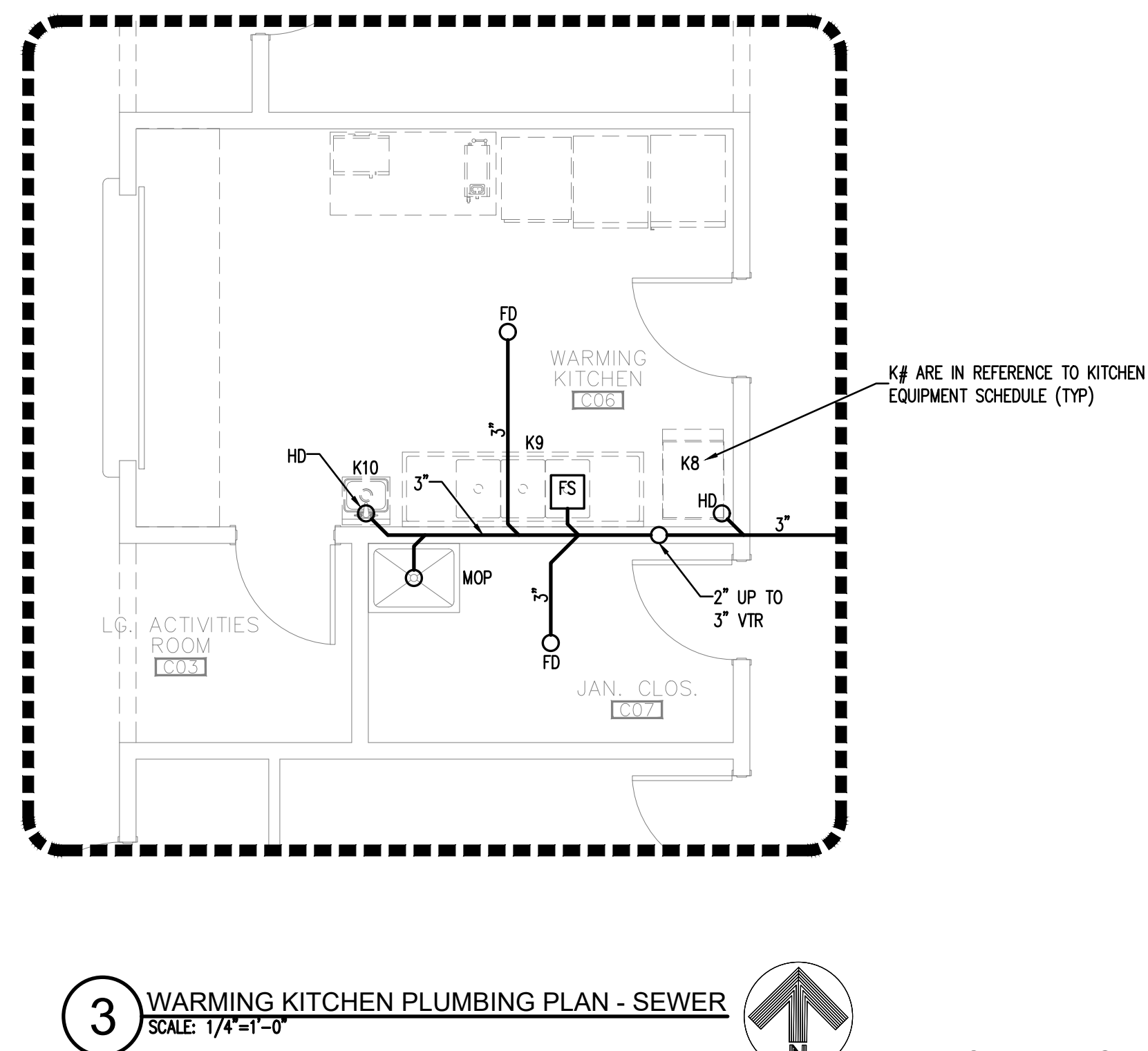
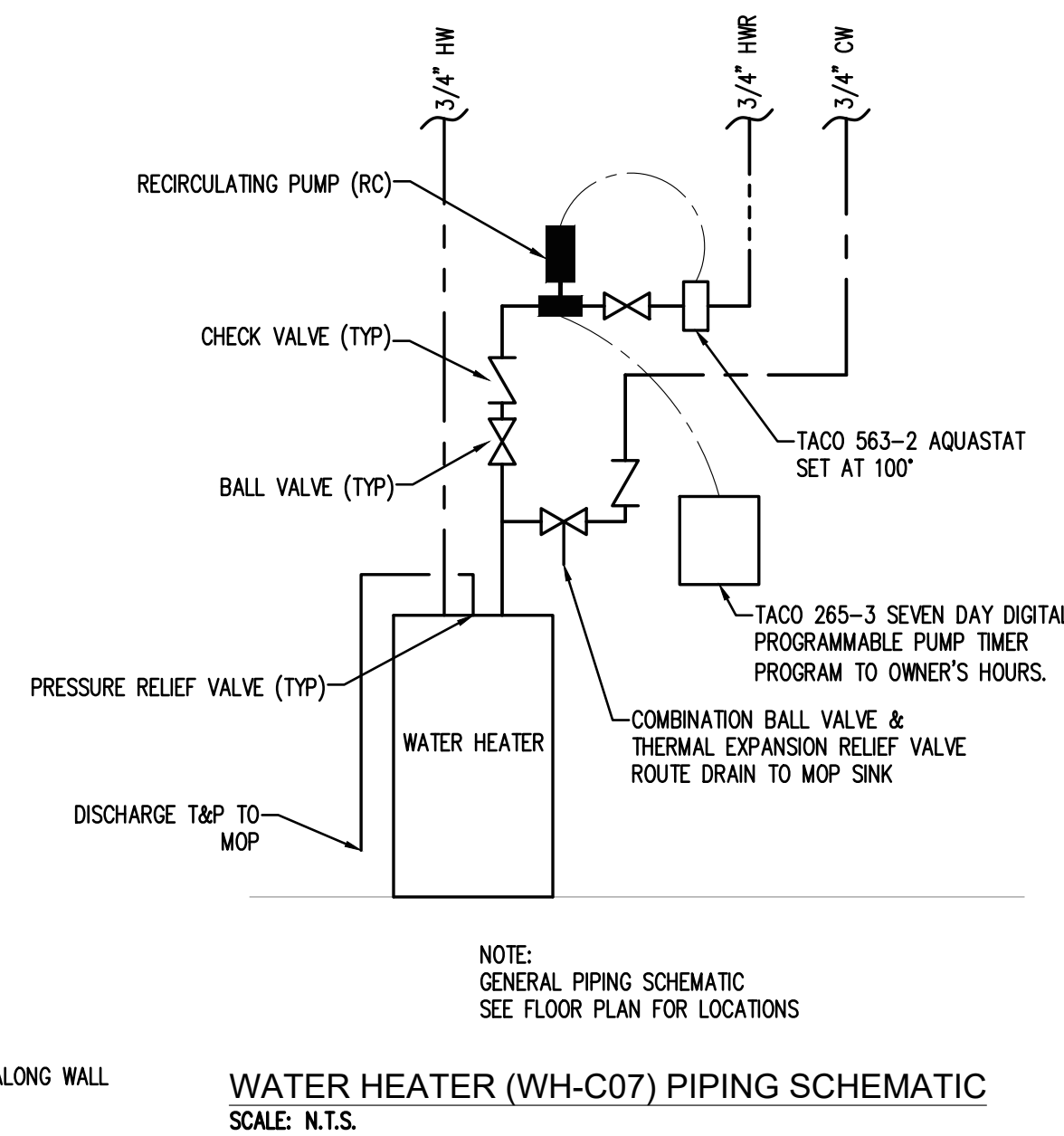
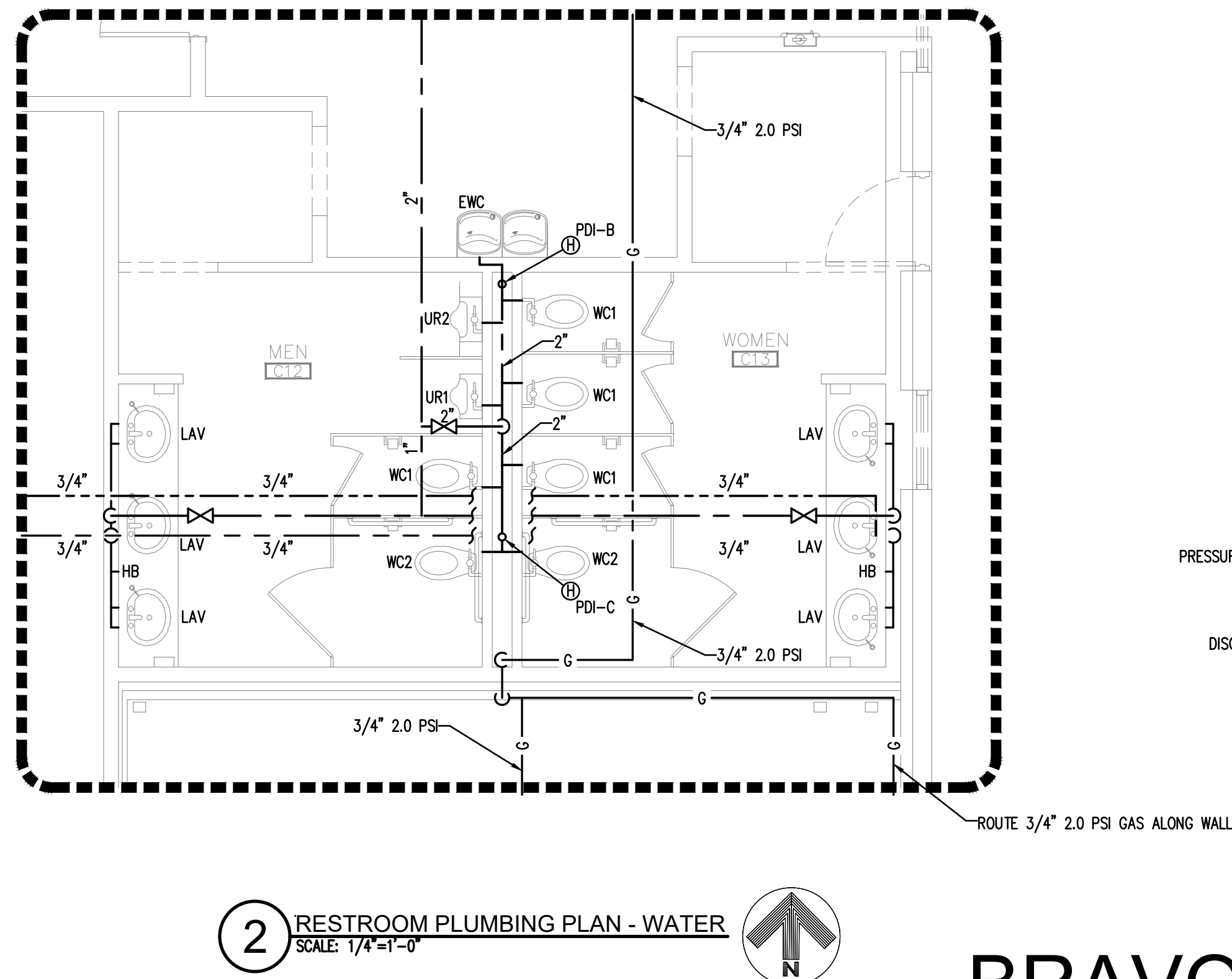
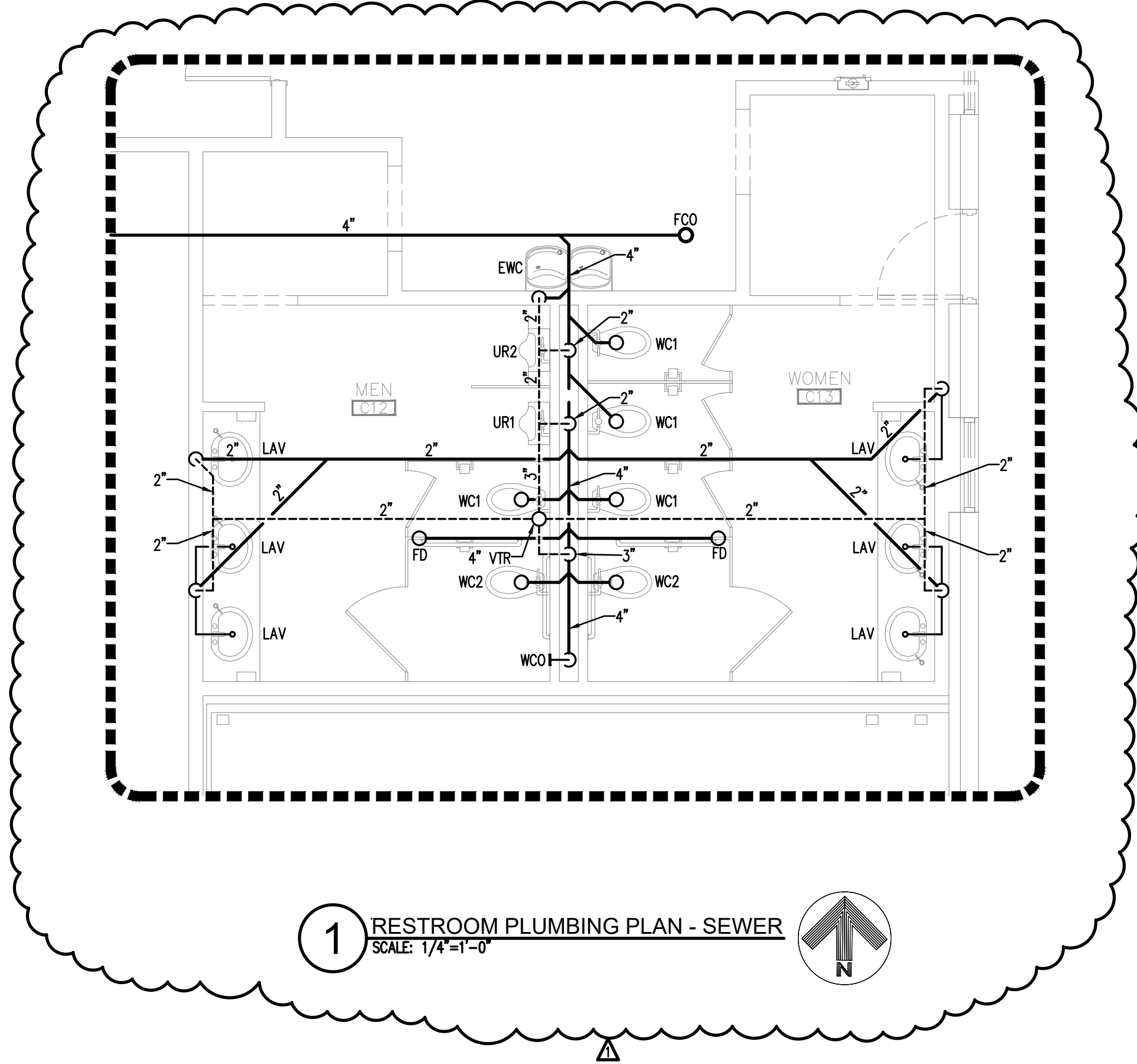
Issue	Date	Initial	Drawn	Revision	Description
02	13-25	JWK		1	SEWER ROUTING REVISION

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

Sheet Title:  
**COMMUNITY BLDG PLUMBING PLAN**

Sheet No.:  
**P-1.1**





**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.

**BRAVO BLDG SET 04-21-2025**

**PHASE 2**

SEAL: ARUNAL M PATEL

**TOTAL ENGINEERS**

169 New Street, Macon, GA 31201  
(478) 411-4632 - T.E. Project # 23-101  
www.totalengineers.com

Client:

**SUNBELT BUILDERS**

10841 HWY 8 CONNINGTON GA 30114 770.798.0101 770.798.0102

Project:

**R. L. COUSINS COMMUNITY CENTER**

**NEWTON CO. BOC RFP #24-04**

8134 GEIGER STREET, N.W.

CONNINGTON, GEORGIA

Issue Date: 02-13-25

Initial: JWK

Revision: SEWER ROUTING REVISION

Project No.:

02-13-25

Drwg. Date:

04/15/24

Drwg. Revision:

01

Drawn By:

JWK & KMP

Checked By:

KMP

File Name:

Sheet Title:

**R&R & KITCHEN PLUMBING PLANS**

Sheet No.:

**P-2.1**



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 OBTAINED 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 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 BE 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 OR COPPER ALLOY CONDUCTORS WITH 75 DEGREE C THERMAL-MAINTENANCE 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, HOMERUN 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 SCHEDULED 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 AMPERS OR LESS. 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 MOUNTED IN DIE CAST NON CORRODING METAL BOX.
13. WHEN OUTLETS OR BOXES ARE INDICATED 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 INSTALLED 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 MINIMUM BE A NON-USE SWITCH OR TOGGLE. THE SWITCH OR TOGGLE SHALL 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.

6. PROVIDE EACH PANELBOARD BASED ON UL 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, IDENT, AND SPECIFIC PURPOSE OR USE. THE IDENTIFICATION SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS). THE DIRECTORY AND COVERING SHALL BE LOCATED INSIDE 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 BRKAKERS, COMBINATION STARTERS, CONTACTORS, AND ALL OTHER ELECTRICAL DISTRIBUTION EQUIPMENT PANELS. MOUNT NAMEPLATES ON EXTERIOR OF THE DOOR OF ALL EQUIPMENT 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 USAGE 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 UL 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 (EXISTING SYSTEM FROM PHASE I)

1. MATCH EXISTING MANUFACTURER (FROM PHASE I SYSTEM) FOR ALL NEW DEVICES.
2. PROVIDE THE EXTENSION OF AN EXISTING COMPLETE OPERABLE VOICE EVAC FIRE ALARM SYSTEM FOR THE MAIN FIRE ALARM PANEL. THE CONTRACTOR SHALL VERIFY THE PHASE I, 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. 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.
4. NEW HORN/STROBE 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 CANDELLA. BOTH SOUND PRESSURE AND STROBE INTENSITY SHALL BE FIELD SELECTABLE AND ADJUSTABLE.
5. STROBE DEVICES SHALL PRODUCE A FLASHING PULSE OF LIGHT OF 75 CANDELLA.
6. NEW PULL STATIONS SHALL BE NON-GLASS-BREAK TYPE AND KEYED THE SAME AS THE FIRE ALARM PANEL.
7. THE SMOKE DETECTORS SHALL BE THE PHOTOELECTRIC TYPE POWERED FROM THE MAIN FIRE ALARM PANEL.
8. 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.
11. 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.
12. 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.
13. 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.
14. SEE FIRE ALARM SUBCONTRACTOR SUBMITTAL TO AUTHORITY HAVING JURISDICTION ON SHEET E-41 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.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER
A	2 FT. X 4 FT. 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.	LITHONIA "STACK" SER., METALUX "CRUZE ST" SER., COLUMBIA "LCAT" SER., OR APPROVED EQUAL
	LAMPS: LED, 4000 LUMENS, 34 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	
B	4 FT. LED STRIPLIGHT WITH DIFFUSE ACRYLIC LENS, SURFACE/PENDANT MOUNTED, STANDARD 0-10 DIMMING. PROVIDE 90 MINUTE EMERGENCY BATTERY PACK WHERE INDICATED ON THE DRAWINGS. PROVIDE 90 MINUTE EMERGENCY BATTERY PACK WHERE INDICATED ON THE DRAWINGS AND WIRE BATTERY IN PARALLEL FOR SWITCHED OPERATION.	METALUX "SNL" SER., LITHONIA "CSS" SER., COLUMBIA "CSL" SER., OR APPROVED EQUAL
	LAMPS: LED, 4300 LUMENS, 36 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	
C	6 IN. ROUND COMMERCIAL GRADE CYLINDER, PENDANT MOUNTED, MEDIUM DISTRIBUTION, 0-10V DIMMING STANDARD. COORDINATE COLOR AND STEM LENGTH WITH ARCHITECT. PROVIDE MOUNTING CANOPY AS REQUIRED. PROVIDE 90 MINUTE EMERGENCY BATTERY PACK WHERE INDICATED ON THE DRAWINGS AND WIRE BATTERY IN PARALLEL FOR SWITCHED OPERATION.	HALO COMMERCIAL "HCG" SER., LITHONIA "LHNG" SER., RAYON "RRL-6" SER., OR APPROVED EQUAL
	LAMPS: LED, 1500 LUMENS, 18 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	
D	COMMERCIAL DOWNLIGHT, RECESSED SELF FLANGED, 6 IN. APERTURE CLEAR SPECULAR LOW REFLECTANCE REFLECTOR, ACCESS FROM BELOW OR ABOVE CEILING, NEW CONSTRUCTION HOUSING, STANDARD 0-10 DIMMING. PROVIDE 90 MINUTE EMERGENCY BATTERY PACK WHERE INDICATED ON THE DRAWINGS AND WIRE BATTERY IN PARALLEL FOR SWITCHED OPERATION.	LITHONIA "LB86" SER., HALO COMMERCIAL "HCG" SER., PRESCOLITE "LFR-6RD" SER., OR APPROVED EQUAL
	LAMPS: LED, 1500 LUMENS, 19 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	
E	TRADITIONAL CONE STYLE HEAD WITH INTEGRAL DRIVER, SINGLE CIRCUIT, TRACK LENGTH AS SHOWN, 350 DEGREE HORIZONTAL / 90 DEGREE VERTICAL AIMING. (4) 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.	JUNO "R600L" SER., WAC LIGHTING "LUCIO 6010" SER., OR APPROVED EQUAL
	LAMPS: LED, 850 LUMENS, 10 WATTS, 3500 DEGREE K DRIVER: DIMMING 120 VOLT DRIVER INTEGRAL WITH 1 AMP CURRENT LIMIT FOR TRACK	
F	LED FLEXIBLE ENCAPSULATED UPLIGHT FIXTURE, STANDARD 0-10 DIMMING. PROVIDE LENGTHS AS SHOWN ON THE DRAWINGS. MODEL NUMBER: KURV-SW-WSC-DRY-35-3.0-ENC/CL-P1-BW-BW-N/A	Q-TRAN "Q-CAP KURV" SER., OR PRIOR APPROVED EQUAL
	LAMPS: LED, 213 LUMENS/FT., 3 WATTS/FT., 3500 DEGREE K DRIVER: UNV. VOLT	
G	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.	PRUDENTIAL LIGTHING "SNAP" SER., BARTCO "BSS205" SER., ASICS LIGHTING "AIR LED" SER., OR APPROVED EQUAL
	LAMPS: LED, 3600 LUMENS, 36 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	
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.	LITHONIA "ARC3" SER., MCGRAW "HST" SER., BEACON "TRP2" SER., OR APPROVED EQUAL
	LAMPS: LED, 6500 LUMENS, 51 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT	
OB	ARCHITECTURAL GRADE DOWNLIGHT, RECESSED SELF FLANGED, 6 IN. ROUND APERTURE, SPECULAR REFLECTOR FINISH, MEDIUM DISTRIBUTION, STANDARD 0-10 DIMMING.	HALO COMMERCIAL "HCG" SER., LITHONIA "LHNG" SER., PRESCOLITE "LFR-6RD" SER., OR APPROVED EQUAL
	LAMPS: LED, 2000 LUMENS, 23 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT	
OC	LED EXTERIOR STEP LIGHT; RECESSED BACK BOX WITH FLAT FACEPLATE; WET LOCATION LISTED. COORDINATE FINISH WITH OWNER.	HYDREL "HSL13" SER., BEGA "33054" SER., COLE "L606W-AL-HO" SER., OR APPROVED EQUAL
	LAMPS: LED, 300 LUMENS, 8 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT	
OD	LED FLEXIBLE ENCAPSULATED FIXTURE, SURFACE MOUNTED WITH ALUMINUM EXTRUSION; WET LOCATION LISTED. PROVIDE LENGTHS AS SHOWN ON THE DRAWINGS. MODEL NUMBER: RLQ-SW-5-40-90-1.4-IM-FC-1'-IM-FC-1'.	Q-TRAN "FLQ-SW" SER., OR PRIOR APPROVED EQUAL
	LAMPS: LED, 55 LUMENS/FT., 1.4 WATTS/FT., 4000 DEGREE K DRIVER: UNV. VOLT	
IO	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).	LITHONIA "LQM" SER., SURE-LITES "LPX" SER., COMPASS "CE" SER., OR APPROVED EQUAL
	LAMPS: LED, 3 WATTS BALLAST: UNV. VOLT	
IO	ARCHITECTURAL LOW PROFILE OUTDOOR LED AC/EMERGENCY UNIT, SELF DIAGNOSTICS STANDARD. (PROVIDE 90 MIN. BACK-UP BATTERY).	EMERGI-LITE "LUX-RAY" SER., LITHONIA "AFO" SER., MULE "MAKO" SER., OR APPROVED EQUAL
	LAMPS: LED, 3 WATTS BALLAST: UNV. VOLT	

LIGHTING FIXTURE SCHEDULE NOTES:  
1. CONTRACTOR TO VERIFY ALL VOLTAGES, GRID AND CEILING TYPES WITH THE ARCHITECT AND COORDINATE WITH THE ELECTRICAL ENGINEER. PROVIDE A PROPERLY IDENTIFIED TYPE OF DIMMING 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.

GENERAL NOTES:

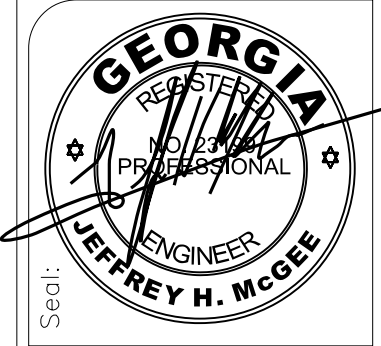
- A. ALL FLUSH RECESSED OUTLET BOXES SHALL BE INSTALLED SUCH THAT FRONT EDGE OF THE BOX WILL NOT BE SET BACK OF THE FINISHED SURFACE MORE THAN 1/4 IN. IN ORDER TO COMPLY WITH N.E.C. 314-20. SUPPORT OF OUTLET BOX BY RECEPTACLE AND COVERPLATE IS NOT ACCEPTABLE. CAREFULLY COORDINATE ROUGH-IN WITH BLOCK 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.

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)

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.
	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 1000 LUMEN, 90 MINUTE BATTERY PACK. FIXTURE NORMALLY SWITCHED WITH OTHER FIXTURES IN THIS AREA.
	UNSWITCHED NIGHT LIGHT FIXTURE, SEE SCHEDULE FOR MOUNTING AND TYPE. PROVIDE WITH 100 LUMEN, 90 MINUTE BATTERY PACK.
	LIGHTING FIXTURE, WALL BRACKET, MOUNTED, MOUNTING HEIGHT AS NOTED ON DRAWINGS OR AS SHOWN ON ARCHITECTURAL ELEVATIONS.)
	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 15-20) SUPPORT BOX BY 3/8 IN. THREADED SSO TO STRUCTURE. PROVIDE KELLUM STRAP, 1/2" GRIP AT BOX AND AT SUSPENDED OUTLET. SUSPEND TO 36 IN. A.F.F. COL UP AND ZIP TIE AT 96 IN. A.F.F.
	DUPLEX CONVENIENCE OUTLET, +18 IN. TO CENTERLINE OF OUTLET UNLESS OTHERWISE NOTED.
	QUADRUPLX OUTLET, 18 IN. TO CENTERLINE UNLESS OTHERWISE NOTED.
	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.
	SINGLE POLE TOGGLE SWITCH, 42 IN. A.F.F. MOUNTING HEIGHT.
	THREE OR FOUR WAY SWITCH AS INDICATED. 42 IN. A.F.F. MOUNTING HEIGHT.
	KEY SWITCH TO USE "CYLINDER" TYPE KEY. 42 IN. A.F.F. MOUNTING HEIGHT.
	0-10 VOLT SLIDE TYPE DIMMER 2015 IECC COMPLANT. (MANUAL ON TO 50%, DIM 1-100%, AUTO OFF. MUST BE COMPATIBLE WITH POWER PACK.) 42 IN. ABOVE FLOOR.
	THREE WAY, 0-10 VOLT SLIDE TYPE DIMMER, 42 IN. ABOVE FLOOR, 2015 IECC COMPLANT. (MANUAL ON TO 50%, DIM 1-100%, AUTO OFF. MUST BE COMPATIBLE WITH POWER PACK.)
	PANELBOARD, SEE SCHEDULE.
	TRANSFORMER, SEE RISER DIAGRAM FOR SIZE AND VOLTAGE.
	DISCONNECT SWITCH, SIZE AS NOTED ON DRAWINGS.
SOUND SYSTEM (RACEWAY AND BOXES ONLY)	
	SPEAKER, FLUSH WALL MOUNTED. PROVIDE OUTLET BOX AND 3/4 IN. C. TO AV ROOM.
	VOLUME CONTROL, MOUNTED 42 IN. ABOVE FLOOR, PROVIDE OUTLET BOX AND 3/4 IN. C. TO AV ROOM.
	SOUND RACK/CONSOLE.
	MIC OUTLET, PROVIDE OUTLET BOX AND 3/4 IN. C. TO AV ROOM.
LIGHTING CONTROL SENSORS	
	COMBINATION 360 DEGREE, ULTRASONIC AND PASSIVE INFRARED SENSOR (WATT STOPPER "DT-300", 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)
	COMPUTER OUTLET, MOUNTED 8 INCHES ABOVE COUNTER OR AT 42. ABOVE FLOOR UNLESS NOTED OTHERWISE. (2 DATA)
	WIRELESS ACCESS POINT. (2 DATA)
	TELEVISION OUTLET, 18 IN. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE.
	PLYWOOD BACKBOARD, "TB" INDICATES TELEPHONE BOARD.
FIRE ALARM SYSTEM (VOICE EVAC SYSTEM)	
	FIRE ALARM REMOTE LCD ANNUNCIATOR PANEL, FLUSH RECESSED WALL MOUNTED.
	REMOTE VOICE EVACUATION MICROPHONE, WALL MOUNTED IN FLUSH BOX, 42 IN. A.F.F.
	FIRE ALARM SIGNAL, HORN AND FLASHING LIGHT, 6 FT.-8 IN. MOUNTING HEIGHT.
	FIRE ALARM SIGNAL, SPEAKER AND FLASHING LIGHT, 6 FT.-8 IN. MOUNTING HEIGHT.
	FIRE ALARM STROBE LIGHT, 6 FT.-8 IN. MOUNTING HEIGHT.
	FIRE ALARM PULL STATION, WALL MOUNTED 3 FT.-6 IN. ABOVE FLOOR.
	FIRE ALARM SMOKE DETECTOR, CEILING MOUNTED.
	FIRE ALARM HEAT DETECTOR, 135 DEG. OPERATION.
	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.
SECURITY SYSTEM (RACEWAY AND BOXES ONLY)	
	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)
	DOOR CONTACT POSITION SENSOR LOCATION, PROVIDE SINGLE GANG BOX AT DOOR FRAME ON INSIDE OF DOOR. COORDINATE EXIST LOCATION WITH SECURITY CONTRACTOR. SYSTEM VENDOR, PROVIDE 3/4 IN. C. WITH PULL STRING TO STUB-OUT ABOVE CEILING.
	WALL MOUNTED CCTV SECURITY CAMERA, PROVIDE JUNCTION BOX AND 1 IN. 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").



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Project: R. L. COUSINS CENTER  
NEWTON CO. BOC RFP #24-04  
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Issue Date: 06-27-24  
Drawn By: TAW  
Checked By: JHM  
File Name: E-0.1

Project No.: 2023012  
Dwg. Date: 06/27/24  
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Checked By: JHM  
File Name: E-0.1

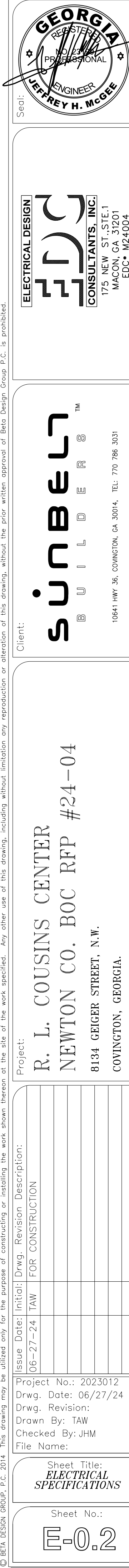
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Sheet No.: E-0.1

BRAVO BLDG SET 04-21-2025

PHASE 2

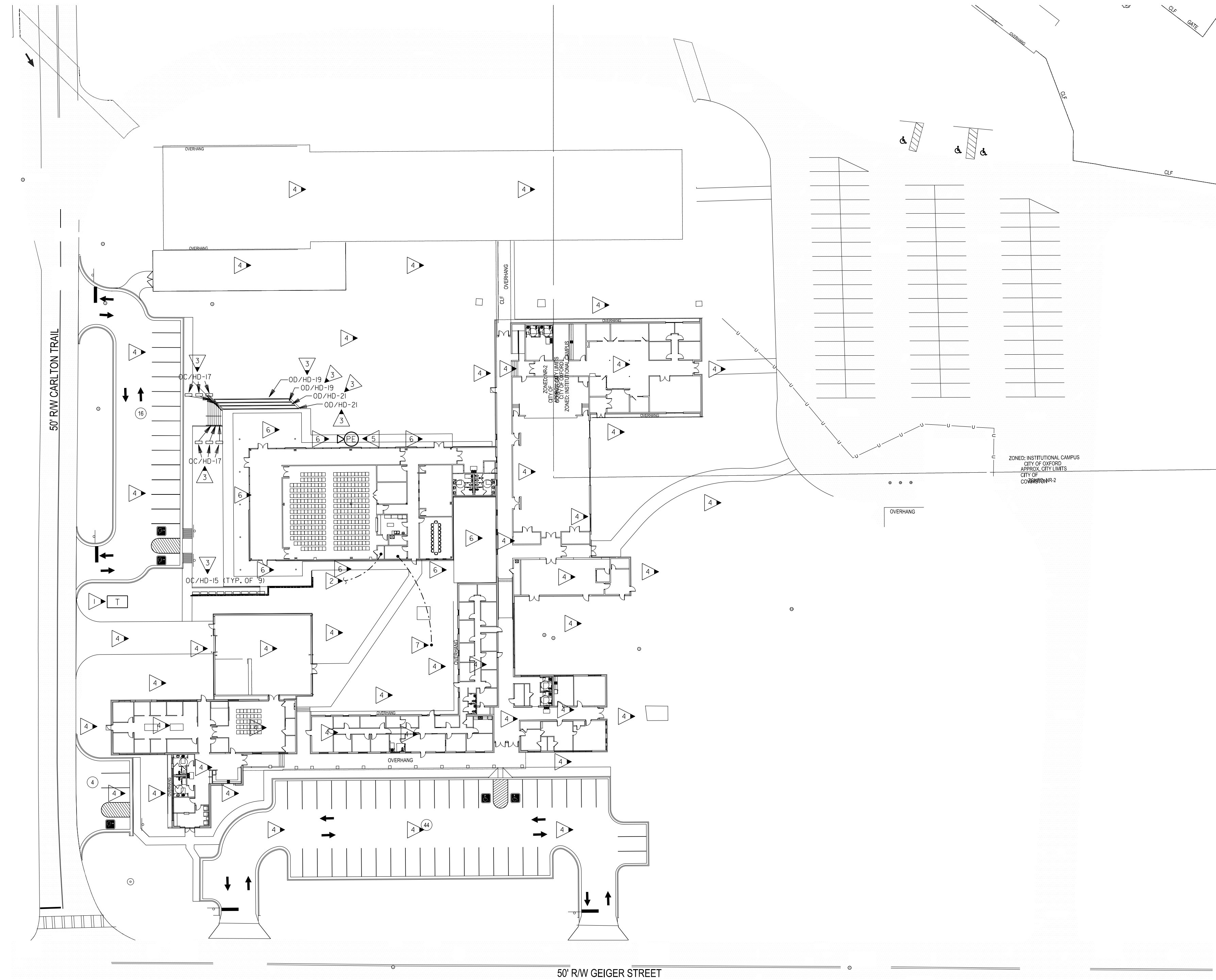


BRAVO BLDG SET 04-21-2025



2. PROVIDE RUBBER-IN-SHEAR VIBRATION ISOLATOR UNDER EACH TRANSFORMER CORNER. BOLT THE ISOLATOR TO THE TRANSFORMER AND TO THE HOUSEKEEPING PAD.





1 SITE PLAN - ELECTRICAL  
E-1.1 SCALE: 1"=40'-0"

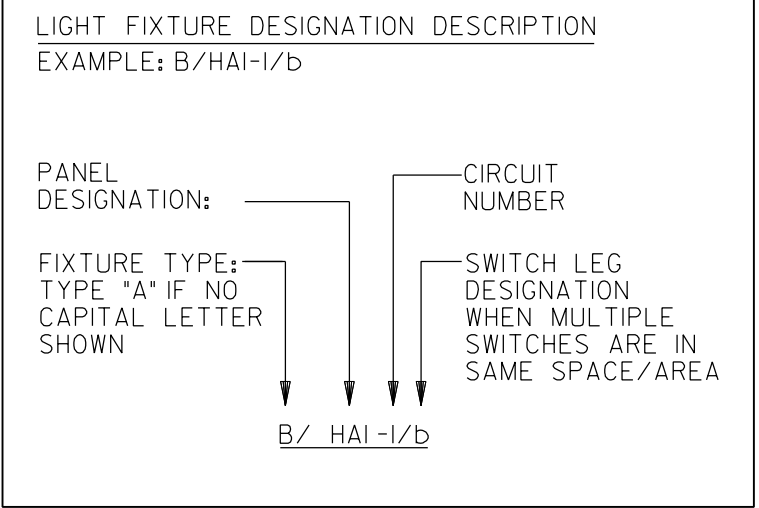
# BRAVO BLDG SET 04-21-2025

## KEYED NOTES: (THIS SHEET ONLY)

- EXISTING LOCATION OF TRANSFORMER SET DURING PHASE 1 OF CONSTRUCTION. FIELD VERIFY EXACT LOCATION.
- (4) 3 IN. CONDUITS FROM CORNER OF MDF ROOM SHOWN TO D.MARK FOR CATV, DATA/TEL AND ONE SPARE WERE PROVIDED IN PHASE 1 OF CONSTRUCTION. VERIFY EXACT STUB OUT LOCATIONS OF LAID UNDERGROUND CONDUIT PRIOR TO ANY ELECTRICAL WORK.
- ROUTE VIA 8 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 5 ON SHEET E-2.J. USE #8'S ENTIRE CIRCUIT IN 1 IN. CONDUIT UNLESS NOTED OTHERWISE. PROVIDE MANUAL OVERRIDE SWITCH. COORDINATE FINAL LOCATION WITH OWNER.
- NO WORK IN THIS AREA DURING THIS PHASE OF CONSTRUCTION UNLESS NOTED OTHERWISE. REFER TO PHASE 1 CONSTRUCTION PLANS FOR WORK DONE IN THE AREA.
- 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.
- SEE COMMUNITY BUILDING PLAN - LIGHTING, 1/E-2.J. FOR ADDITIONAL EXTERIOR LIGHTING IN THIS AREA.
- (2) EXISTING SETS OF 4 IN. C. PROVIDED DURING PHASE 1 CONSTRUCTION FROM MAIN ELECTRICAL ROOM TO THE COMMUNITY BUILDING'S ELECTRICAL ROOM. CONDUIT TO BE USED FOR COMMUNITY BUILDING SERVICE. REFER TO POWER RISER DIAGRAM, 1/E-5.J. VERIFY EXACT STUB UP LOCATIONS OF CONDUITS PRIOR TO ANY ELECTRICAL WORK.

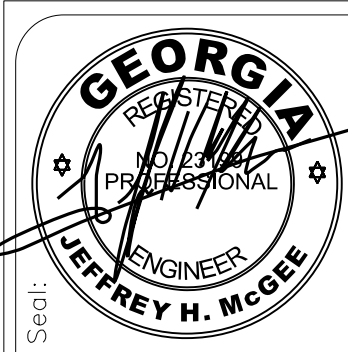
## GENERAL NOTES: (THIS SHEET ONLY)

- SURVEY AND SITE INFORMATION PROVIDED BY OTHERS. VERIFY ALL CONDITIONS ON SITE AND WITH OFFICAL SURVEYS AND OTHER TRADES.
- CALL UNDERGROUND UTILITY CENTER AND VERIFY ALL UNDERGROUND UTILITIES.
- UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC.
- CONTRACTOR SHALL STAKE-OFF ALL EXISTING UTILITIES PRIOR TO ROUGH-IN. ALL NEW INSTALLATION SHALL BE COORDINATED WITH EXISTING UTILITY LOCATIONS.
- PROVIDE HAND-HOLES AS REQUIRED BY NEC FOR UNDERGROUND FEEDERS SHOWN.
- PROVIDE 120V POWER TO ALL ELECTRONIC WATER METERS. SEE PLUMBING AND CIVIL DRAWING FOR QUANTITIES AND LOCATIONS.



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 2



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Issue	Date	Initial	Drawn	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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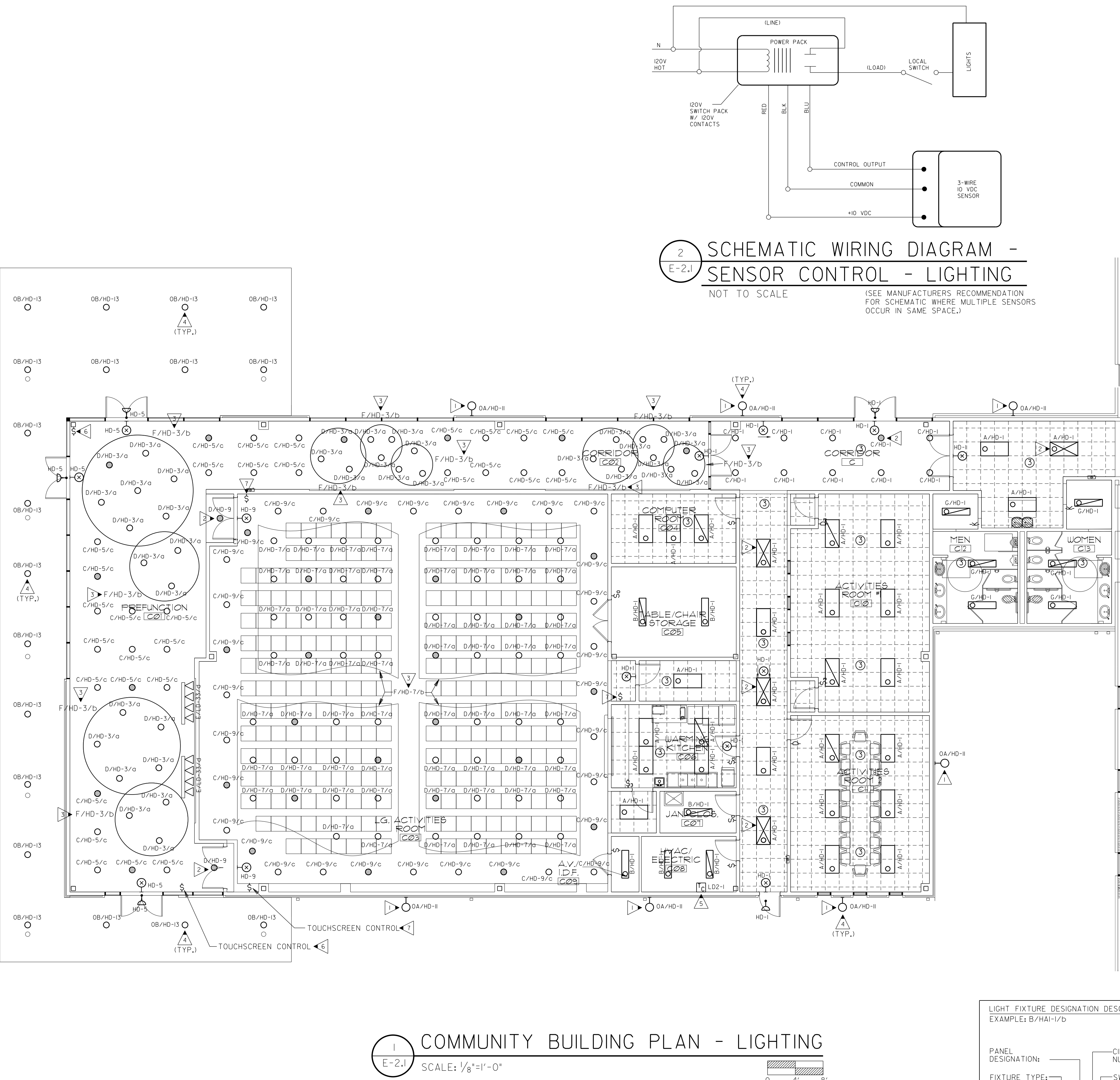
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06-27-24	TAW				FOR CONSTRUCTION

Project No.: 2023012  
Drwg. Date: 06/27/24  
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File Name:  
Sheet Title:  
**COMMUNITY BUILDING PLAN - LIGHTING**  
Sheet No.:  
**E-2.1**

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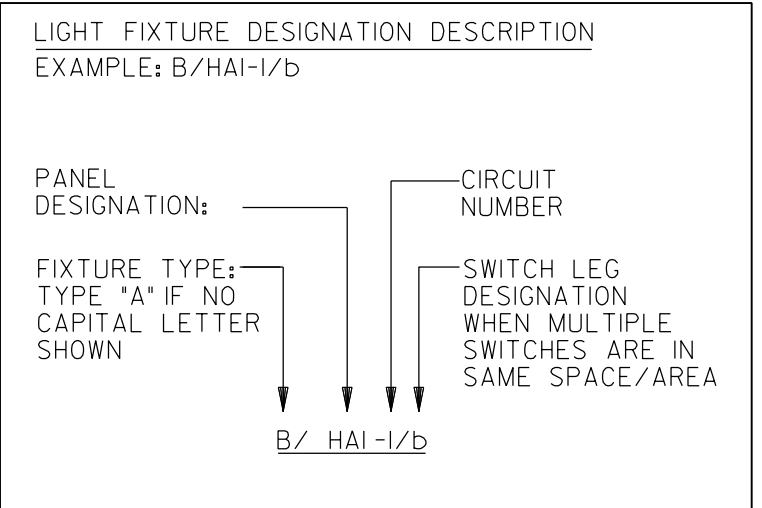
PHASE 2



2 SCHEMATIC WIRING DIAGRAM -  
E-2.J SENSOR CONTROL - LIGHTING  
NOT TO SCALE (SEE MANUFACTURERS RECOMMENDATION FOR SCHEMATIC WHERE MULTIPLE SENSORS OCCUR IN SAME SPACE.)

- GENERAL NOTES:**
- 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 3/8" IN. 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. COORDINATE EXACT MOUNTING HEIGHT PRIOR TO ELECTRICAL ROUGH-IN.
  - 2. UNSWITCHED NIGHT LIGHT FIXTURE.
  - 3. FIXTURE TYPE F MOUNTED AROUND THE PERIMETER OF THE GYPSUM BOARD CLOUDS FOR UPLIGHTING. COORDINATE EXACT LENGTHS REQUIRED FOR FIXTURE TYPE F WITH SHOWN LAYOUT.
  - 4. ROUTE VIA 8 POLE EXTERIOR LIGHTING CONTACTOR/TIMECLOCK LOCATED ADJACENT PANELS. EXISTING MAIN BUILDING PHOTOCELL SHALL CONTROL DUSK TILL DAWN OPERATION. TIMECLOCK SHALL INTERRUPT CIRCUIT DURING MIDNIGHT HOURS. SEE KEYED NOTE 5. USE #10'S ENTIRE CIRCUIT IN 3/4 IN. C. UNLESS NOTED OTHERWISE. PROVIDE MANUAL OVERRIDE SWITCH. COORDINATE FINAL LOCATION WITH OWNER.
  - 5. PROVIDE 365 DAY DIGITAL PROGRAMMABLE TYPE ELECTRONIC CONTROL TIME CLOCK WITH MINIMUM 8 CONTACTS AND MINIMUM 96 ON/OFF EVENTS PER WEEK. CONTACTS RATED FOR MINIMUM 30 AMPS AND 277 VOLTS. PROVIDE WITH NEMA TYPE I ENCLOSURE AND CAPACITOR BACKUP. PROVIDE WITH AUTO-ON-OFF FUNCTION. PROVIDE AUXILIARY INPUT FROM PHOTO CELL FOR OVERRIDE ON-OR-OFF CONTROL.
  - 6. PROVIDE A FOUR ZONE ROOM LIGHTING CONTROLLER SYSTEM. PROVIDE SYSTEM WITH TOUCHSCREEN CONTROL AND ONE MULTISCENE (4-SCENE+OFF) WALL BOX STATION AS SHOWN. PROVIDE SYSTEM COMPLETE WITH POWER PACKS AND CONNECTIVITY BETWEEN CONTROLLER. ROUTE ALL LIGHTING CIRCUITS VIA CONTROLLER OR CONTROLLED POWER PACK. SYSTEM SHALL BE FULLY PROGRAMMABLE. PROVIDE INTERCONNECTIVITY REQUIRED BY SYSTEM PROVIDED. BASIS OF DESIGN IS THE INTELLIGENT NIGHT NP0D SYSTEM. SYSTEM SHALL CONTROL FIXTURES IN THE PREFUNCTION CO18, CORRIDOR CO2 AREAS WITH SHOWN SWITCH INDICATIONS (a, b, c & d) WITH EACH INDICATION REPRESENTING A SEPARATELY CONTROLLED ZONE.
  - 7. PROVIDE A THREE ZONE ROOM LIGHTING CONTROLLER SYSTEM. PROVIDE SYSTEM WITH TOUCHSCREEN CONTROL AND ONE MULTISCENE (4-SCENE+OFF) WALL BOX STATION AS SHOWN. PROVIDE SYSTEM COMPLETE WITH POWER PACKS AND CONNECTIVITY BETWEEN CONTROLLER. ROUTE ALL LIGHTING CIRCUITS VIA CONTROLLER OR CONTROLLED POWER PACK. SYSTEM SHALL BE FULLY PROGRAMMABLE. PROVIDE INTERCONNECTIVITY REQUIRED BY SYSTEM PROVIDED. BASIS OF DESIGN IS THE INTELLIGENT NIGHT NP0D SYSTEM. SYSTEM SHALL CONTROL FIXTURES IN THE LG, ACTIVITIES ROOM CO3 AREA WITH SHOWN SWITCH INDICATIONS (a, b, c & d) WITH EACH INDICATION REPRESENTING A SEPARATELY CONTROLLED ZONE.



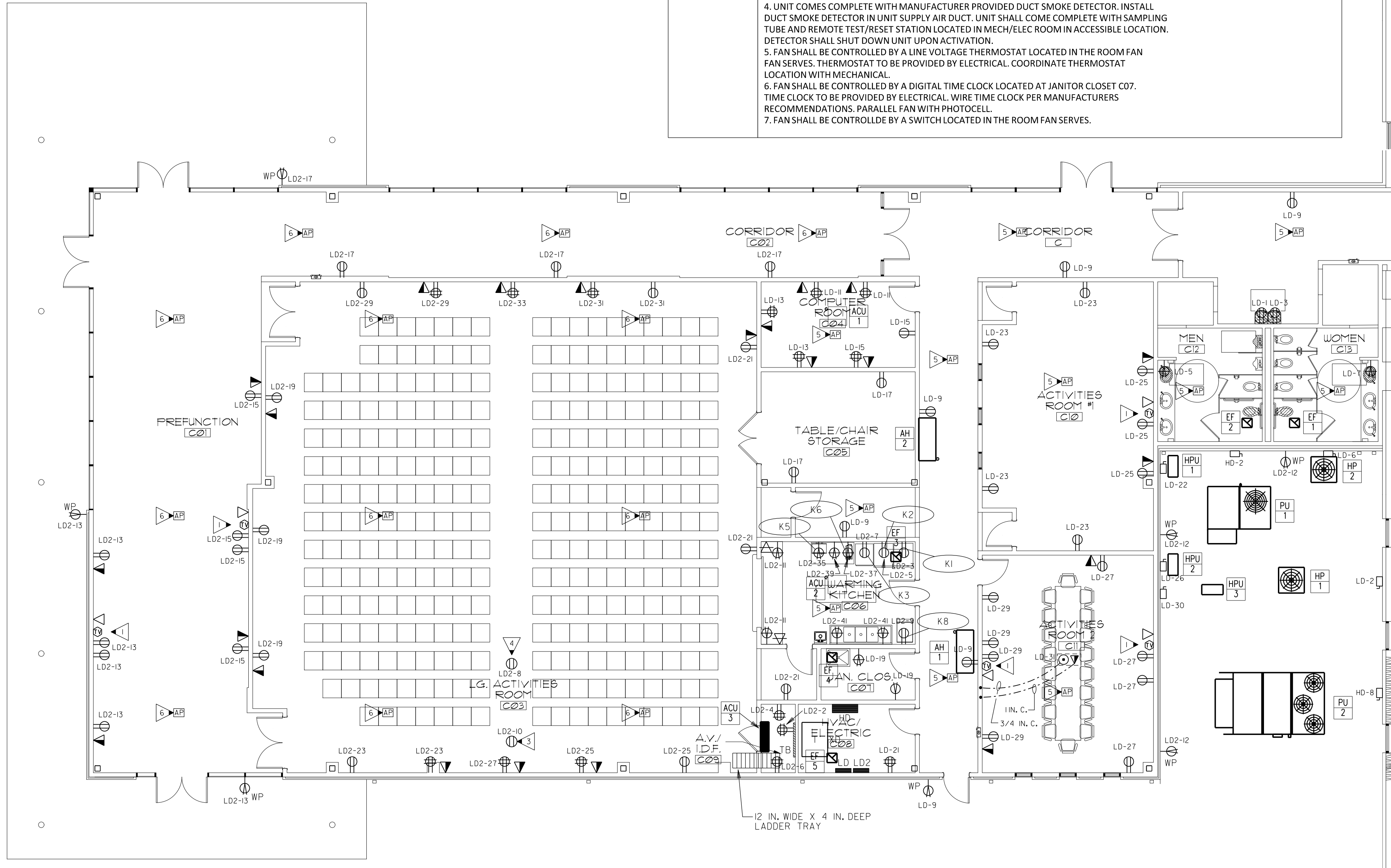
PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)

1 COMMUNITY BUILDING PLAN - LIGHTING  
E-2.J SCALE: 1/8" = 1'-0"

# BRAVO BLDG SET 04-21-2025



BRAVO BLDG SET 04-21-2025



1 COMMUNITY BUILDING PLAN - POWER & TEL/DATA/TV SYSTEMS  
E-3.1 SCALE: 1/8"=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)

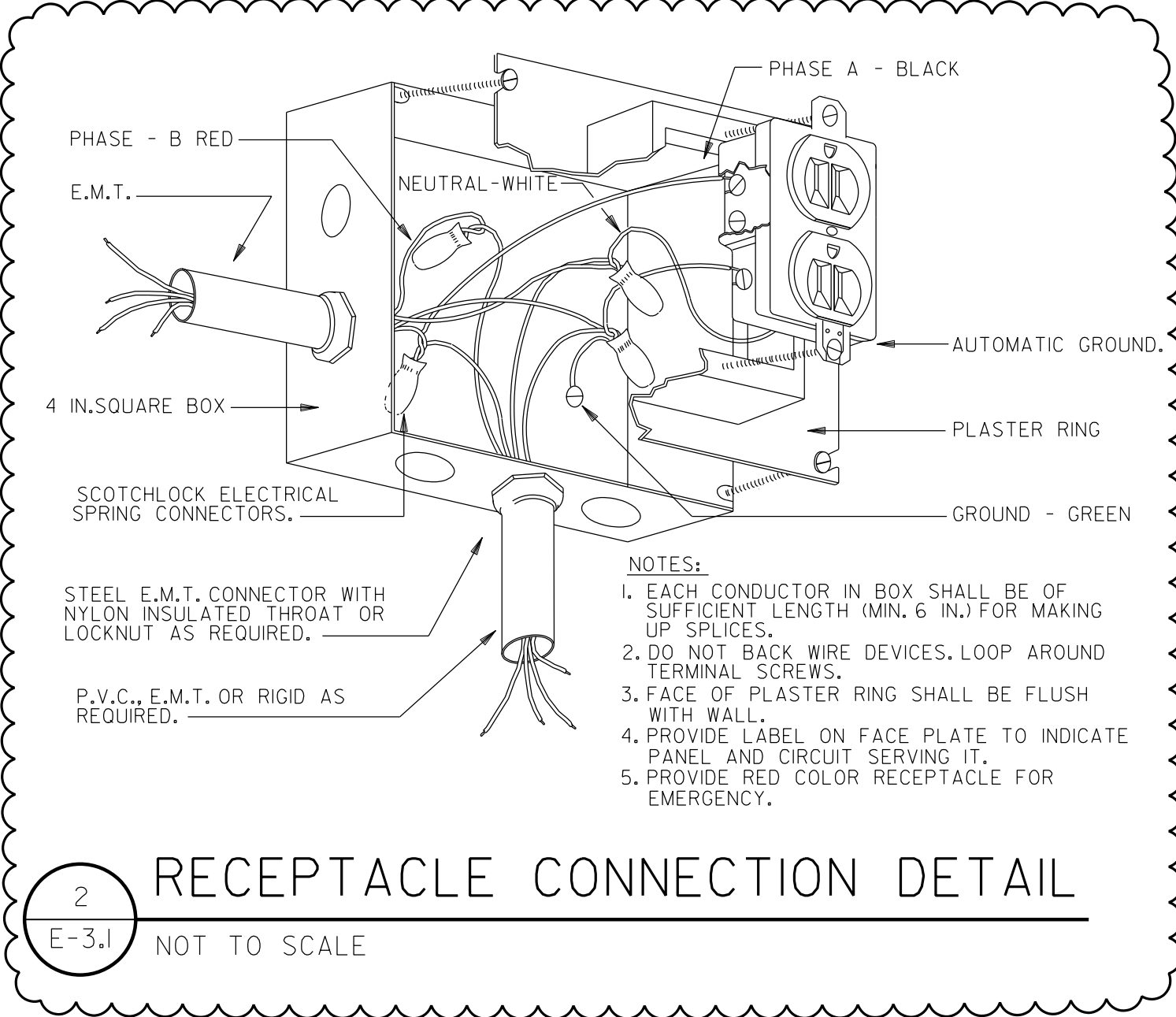
MECHANICAL EQUIPMENT POWER SCHEDULE						
UNIT NAME	VOLTAGE/ PHASE	CIRCUIT BREAKER	PANEL NAME/ CIRCUIT NUMBER	FEEDER	DISCONNECT SWITCH	NOTES
HP-1	208V/1PH	40A/2P	LD-2	3#8, #10G., 1 IN. C.	60A/2P/3R	1
HP-2	208V/1PH	40A/2P	LD-6	3#8, #10G., 1 IN. C.	60A/2P/3R	1
AH-1	208V/3PH	35A/3P	LD-10	4#8, #10G., 1 IN. C.	60A/3P	1,2
AH-2	208V/3PH	35A/3P	LD-16	4#8, #10G., 1 IN. C.	60A/3P	1,2
HPU/ACU-1	208V/1PH	20A/2P	LD-22	3#12, #12G., 3/4 IN. C.	30A/2P/3R	1,3
HPU/ACU-2	208V/1PH	20A/2P	LD-26	3#12, #12G., 3/4 IN. C.	30A/2P/3R	1,3
HPU/ACU-3	208V/1PH	20A/2P	LD-30	3#12, #12G., 3/4 IN. C.	30A/2P/3R	1,3
PU-1	480V/3PH	45A/3P	HD-2	4#8, #10G., 1 IN. C.	60A/3P/3R	1,4
PU-2	480V/3PH	100A/3P	HD-8	4#2, #6G., 1 1/2 IN. C.	100A/3P/3R	1,4
EF-1	120V	20A/1P	LD-34	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,6
EF-2	120V	20A/1P	LD-36	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,6
EF-3	120V	20A/1P	LD-37	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,7
EF-4	120V	20A/1P	LD-39	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,7
EF-5	120V	20A/1P	LD-41	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,5
WH-C07	277V	25A/1P	HD-20	2#10, #10G., 3/4 IN. C.	30A/1P	
RC-1	120V	20A/1P	LD-35	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	
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. UNIT COMES COMPLETE WITH MANUFACTURER PROVIDED DUCT SMOKE DETECTOR. INSTALL DUCT SMOKE DETECTOR IN UNIT 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.						
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 JANITOR CLOSET C07. TIME CLOCK TO BE PROVIDED BY ELECTRICAL. WIRE TIME CLOCK PER MANUFACTURERS RECOMMENDATIONS. PARALLEL FAN WITH PHOTOCELL.						
7. FAN SHALL BE CONTROLLDE BY A SWITCH LOCATED IN THE ROOM FAN SERVES.						

GENERAL NOTES:

- 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. PROVIDE RECEPTACLE, DATA OUTLET, AND TV OUTLET MOUNTED HIGH ON WALL FOR TV. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
2. COORDINATE EXACT LOCATION OF FLOOR BOX WITH OWNER PRIOR TO ROUGH-IN.
3. PROVIDE CONNECTION TO MOTORIZED SCREEN. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
4. CEILING MOUNTED PROJECTOR. 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. PROVIDE BISCUIT DATA OUTLET FLUSH MOUNTED IN CEILING FOR WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.



KITCHEN EQUIPMENT POWER SCHEDULE									
ITEM NO.	QUANTITY	DEVICE	VOLTAGE/ PHASE	AMPS	CIRCUIT BREAKER	CIRCUIT NUMBER	FEEDER	DISCONNECT	NEMA CONNECTION/NOTES
K1	1	REFRIGERATOR	120V	3.8A	20A/1P	LD2-3	2#12, #12G., 1/2 IN. C.	CORD AND PLUG	5-15P 1,2,3,4
K2	1	FREEZER	120V	6.5A	20A/1P	LD2-5	2#12, #12G., 1/2 IN. C.	CORD AND PLUG	5-15P 1,2,3,4
K3	1	WARMING CABINET	120V	15A	20A/1P	LD2-7	2#12, #12G., 1/2 IN. C.	CORD AND PLUG	5-20P 1,2,3,4
K5	1	MICROWAVE	120V	13.4A	20A/1P	LD2-35	2#12, #12G., 1/2 IN. C.	CORD AND PLUG	5-15P 1,2,3
K6	1	COFFEE BREWER	120V	13.8A	20A/1P	LD2-37	2#12, #12G., 1/2 IN. C.	CORD AND PLUG	5-15P 1,2,3
K8	1	ICE MAKER	120V	9.1A	20A/1P	LD2-9	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.									

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Project: Issue Date: 06-27-24 Drawn By: TAW Checked By: JHM File Name: COMMUNITY BUILDING PLAN - POWER AND TEL/DATA/TV

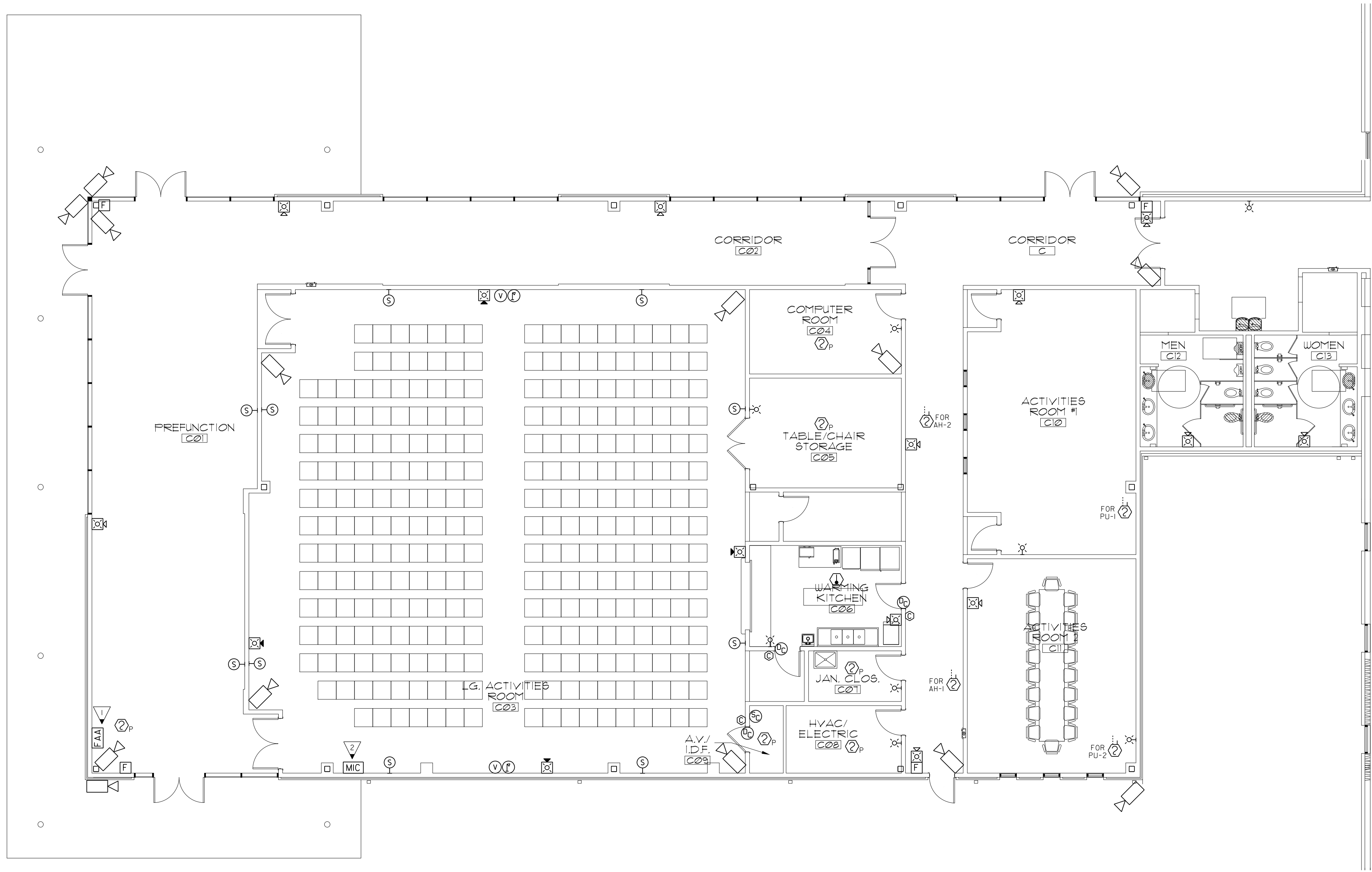
Sheet Title: COMMUNITY BUILDING PLAN - POWER AND TEL/DATA/TV

Sheet No.: E-3.1

PHASE 2

PHASE 2





KEYED NOTES: (THIS SHEET ONLY)

- ▶ FIRE ALARM ANNUNCIATOR MUST BE FLUSH MOUNTED.
- ▶ COORDINATE EXACT LOCATION OF REMOTE VOICE EVACUATION MICROPHONE WITH OWNER AND LOCAL JURISDICTION PRIOR TO ROUGH-IN.

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:

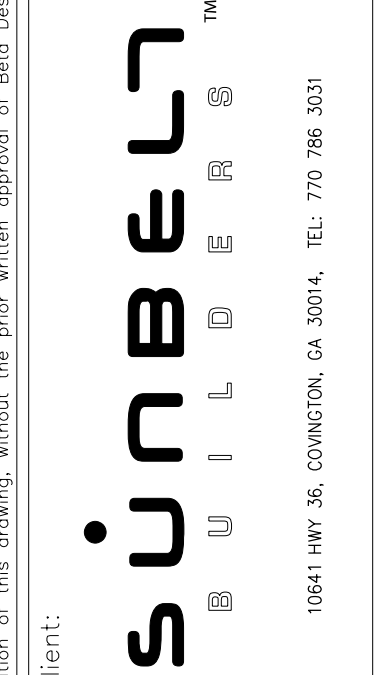
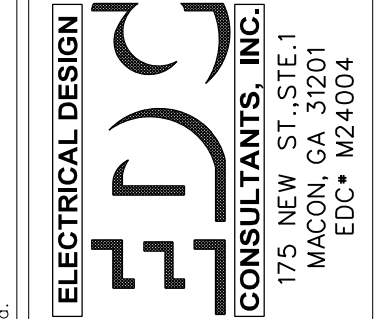
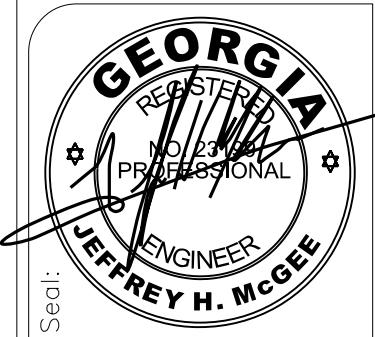
1. THE PRINTED NAME, SIGNATURE AND COPY OF CURRENT GEORGIA LICENSE OF THE LOW VOLTAGE CONTRACTOR WHO IS SUBMITTING THE FIRE ALARM PLANS FOR REVIEW AND WHO WILL BE RESPONSIBLE FOR INSTALLATION.
2. WRITTEN NARRATIVE PROVIDING INTENT AND SYSTEM DESCRIPTION.
3. A FIRE ALARM RISER DIAGRAM.
4. A FLOOR PLAN 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).

1 COMMUNITY BUILDING PLAN - FIRE ALARM, SOUND, & SECURITY  
E-4.1 SCALE: 1/8"=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)

BRAVO BLDG SET 04-21-2025

PHASE 2



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

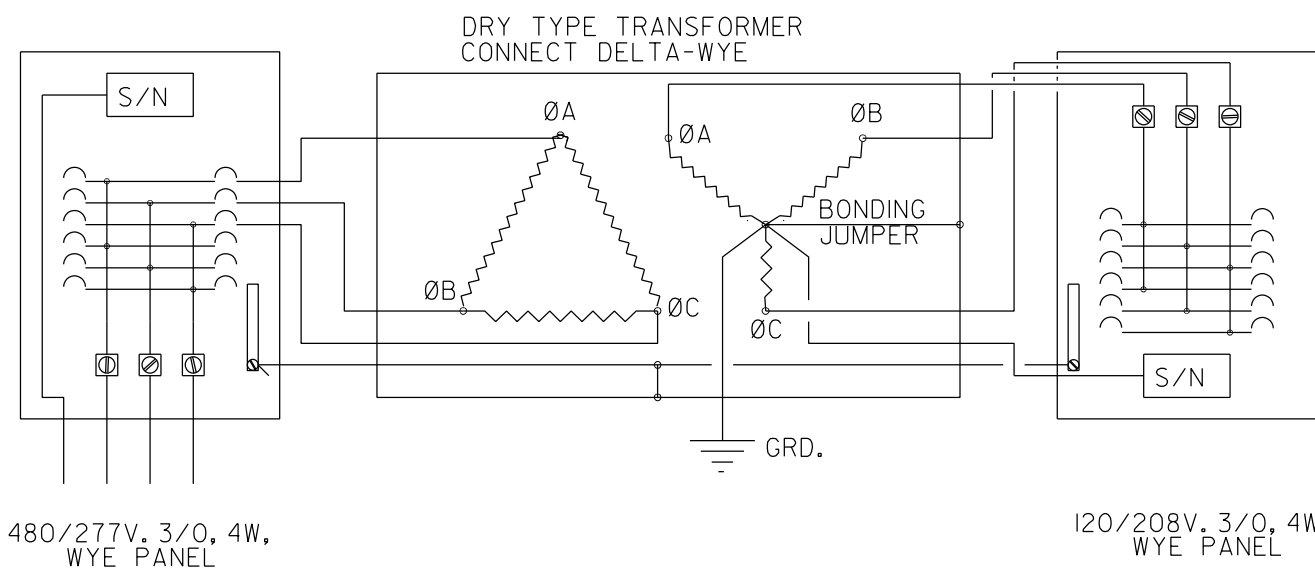
Issue	Date	Initial	Drawn	Revision	Description
06-27-24	TAW				FOR CONSTRUCTION

Project No.: 2023012  
Drwg. Date: 06/27/24  
Drwg. Revision:  
Drawn By: TAW  
Checked By: JHM  
File Name:

Sheet Title:  
COMMUNITY BUILDING  
PLAN - FIRE ALARM,  
SOUND & SECURITY

Sheet No.:  
E-4.1



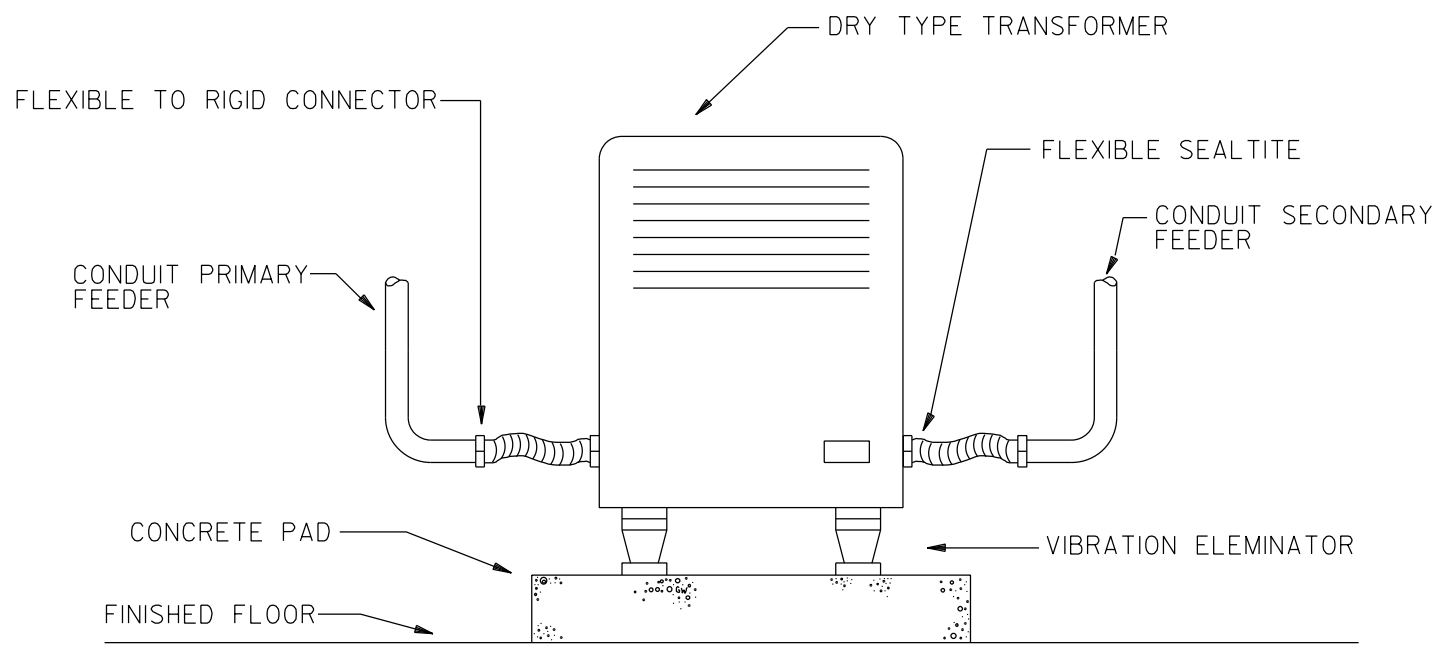


2 DRY TYPE TRANSFORMER CONNECTION  
E-5.J NOT TO SCALE

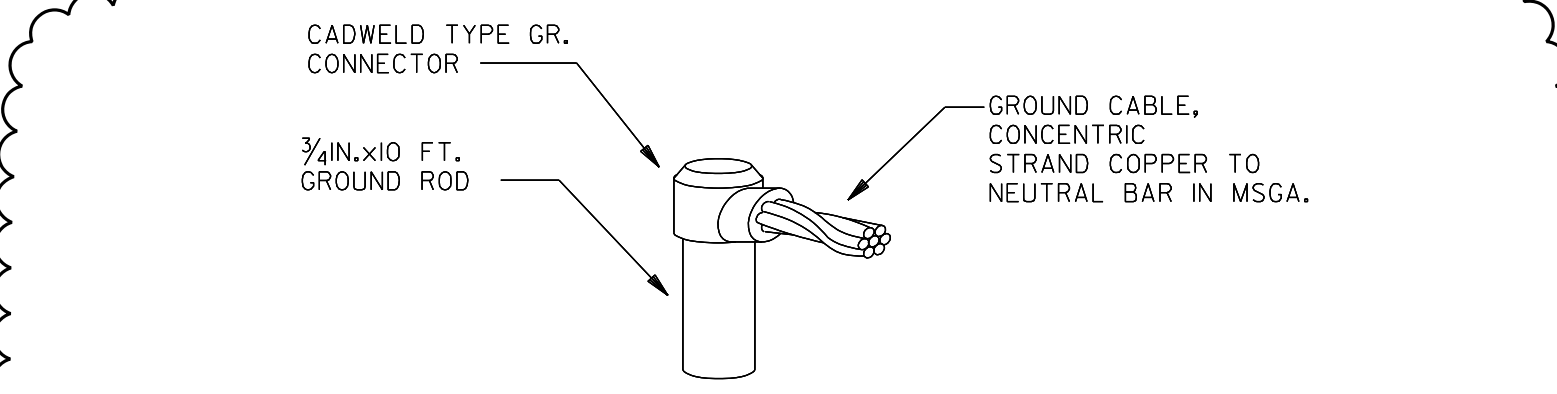
WIRE COLOR CODE		
A/C	120/208	277/480
PHASE A	BLACK	BROWN
PHASE B	RED	ORANGE
PHASE C	BLUE	YELLOW
NEUTRAL	WHITE	GRAY
GROUND	GREEN	GREEN

VOLTAGE PHASE 3 WIRE 4 BUS AMPS	277			480			PANEL MAIN AMPS	HD			LOCATION MOUNTING MAIN	HVAC / ELEC C08 SURFACE LUGS			
	400							400							
DESCRIPTION	VOLT AMPS			BRKR AMP	P	CKT NO	BUS CONN	CKT NO	P	AMP	BRKR	VOLT AMPS			DESCRIPTION
	A	B	C									A	B	C	
LIGHTS	1600			20	1	1	A	2	3	45			8878	8878	PU-1
CORR. CLOUD LIGHTS		1644		20	1	3	B	4							
CORR. CYLINDERS			550	20	1	5	C	6				8878			
ACTIVITY CLOUD LTS.	2400			20	1	7	A	8	3	100				20338	PU-2
ACTIVITY CYLINDERS		650		20	1	9	B	10					20338		
WALL PACKS			360	20	1	11	C	12				20338			
EXTERIOR DOWNLTS.	450			20	1	13	A	14	3	175				24908	XFRMR XD
EXTERIOR RAMP LTS.		120		20	1	15	B	16					22754		
EXTERIOR STAIR LTS.			120	20	1	17	C	18				19952			
EXTERIOR STEP LTS.	500			20	1	19	A	20	1	25				4500	WH-C07
EXTERIOR STEP LTS.		500		20	1	21	B	22	1	20					SPARE
SPARE				20	1	23	C	24	1	20					SPARE
SPARE				20	1	25	A	26	1						SPARE
SPARE				20	1	27	B	28	1						SPARE
SPARE				20	1	29	C	30	1						SPARE
SPARE				1	31	A	32	1							SPARE
SPARE				1	33	B	34	1							SPARE
SPARE				1	35	C	36	1							SPARE
TVSS				60	3	37	A	38	3						SPARE
						39	B	40							
						41	C	42							
TOTALS	4950	2914	1030									49168	51970	58624	
VOLT AMPS	BUS A 63574			REMARKS: PANEL AND BREAKERS RATED FOR MINIMUM 31.0 KAIC											
	BUS B 54884														
	BUS C 50198														
TOTAL	168656														

VOLTAGE PHASE 3 WIRE 4 BUS AMPS	120			208			PANEL MAIN AMPS	LD			LOCATION MOUNTING MAIN	HVAC / ELEC C08 SURFACE MAIN CIRCUIT BREAKER		
	400			400				400						
DESCRIPTION	VOLT AMPS			BRKR AMP	CKT NO	BUS CONN	CKT NO	P	AMP	VOLT AMPS			DESCRIPTION	
	A	B	C							A	B	C		
* EWC	1000			20	1	A	2	2	40				2112	HP-1
* EWC		1000		20	1	3	B	4					2112	HP-2
MEN RECEPT.			200	20	1	5	C	6	2	40	2112			HP-2
WOMEN RECEPT.	200			20	1	7	A	8					2112	HP-2
CORRIDOR RECEPT.		1200		20	1	9	B	10	3	35		3072		AH-1
COMPUTER RM REC.			800	20	1	11	C	12				3072		
COMPUTER RM REC.	800			20	1	13	A	14					3072	
COMPUTER RM REC.		600		20	1	15	B	16	3	35			3072	AH-2
STORAGE RECEPT.			400	20	1	17	C	18				3072		
JANITOR RECEPT.	400			20	1	19	A	20					3072	
ELEC. RECEPT.		400		20	1	21	B	22	2	20		1082		HPU / ACU-1
ACTIVITY RECEPT.			800	20	1	23	C	24				1082		HPU / ACU-2
ACTIVITY RECEPT.	600			20	1	25	A	26	2	20			1082	HPU / ACU-2
ACTIVITY RECEPT.		800		20	1	27	B	28					1082	HPU / ACU-3
ACTIVITY RECEPT.			800	20	1	29	C	30	2	20	1082			HPU / ACU-3
ACTIVITY FLR BOX	400			20	1	31	A	32					1082	
PREFUNCTION TRACK		1000		20	1	33	B	34	1	20		172		EF-1
RC-1			44	20	1	35	C	36	1	20	172			EF-2
EF-3	20			20	1	37	A	38	3	60				TVSS
EF-4		20		20	1	39	B	40						
EF-5			128	20	1	41	C	42						
TOTALS	3420	5020	3172								10592	10592	12532	
VOLT AMPS	BUS A 15952			REMARKS: PANEL AND BREAKERS RATED FOR MINIMUM 21.5 KAIC										
	BUS B 15612			SECTION 1 OF 2										
	BUS C 13764			FEED THRU LUGS										
	TOTAL 45328			* PROVIDE GFCI BREAKER										



3 FLOOR MOUNTED TRANSFORMER  
E-5.J NOT TO SCALE



6 CABLE CONNECTION TO GROUND ROD  
E-6.J NOT TO SCALE

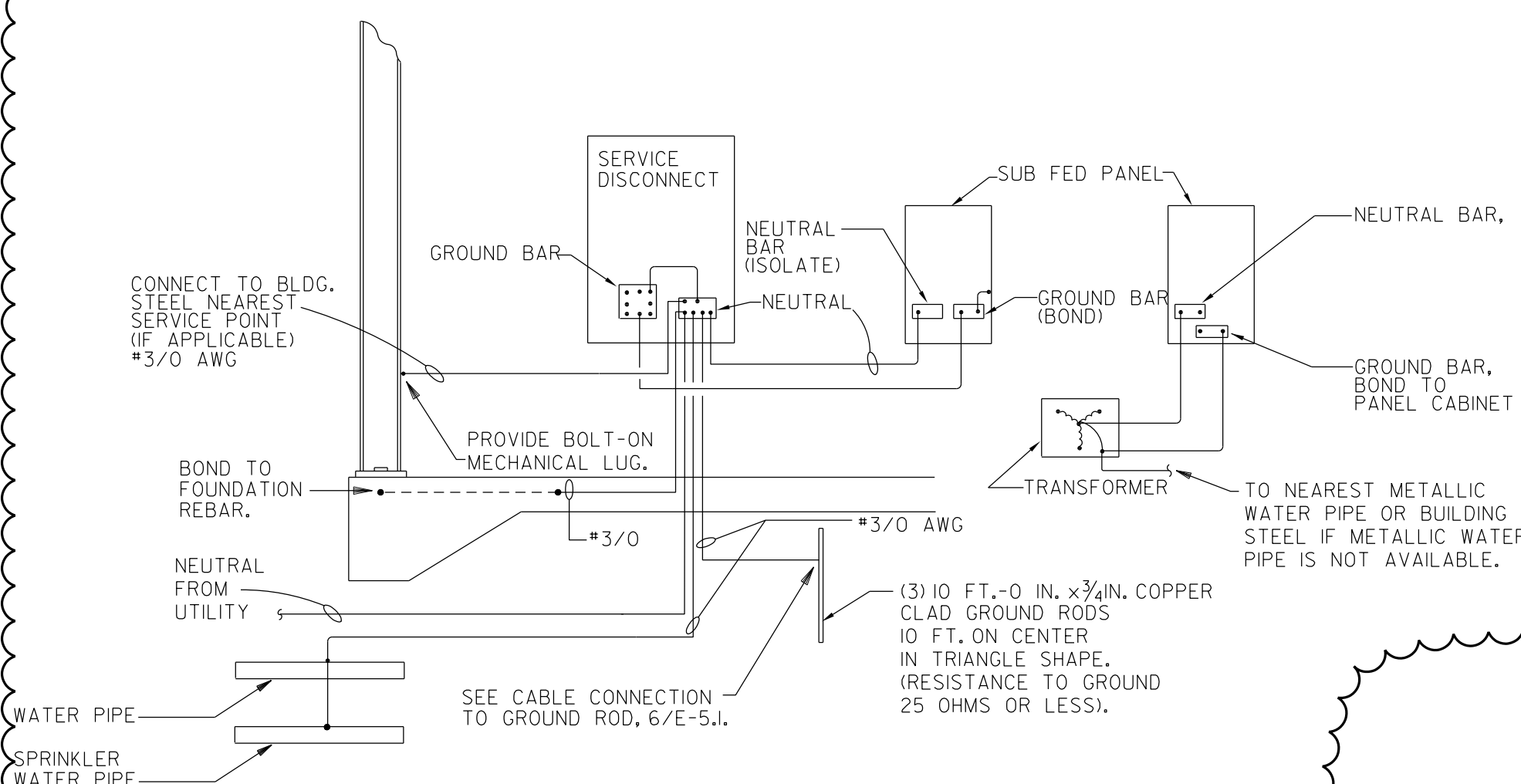
PANEL HD DEMAND CALCULATIONS			
	CONNECTED LOAD (VA)	DEMAND FACTOR	CALCULATED DEMAND (VA)
TOTAL CONNECTED LOAD (VA)	168,656		
LIGHTING	9,894	1.25	12,368
HVAC	121,020	1.00	121,020
HVAC (CONTINUOUS)	0	1.25	0
LARGEST MOTOR	172	1.25	215
MOTOR LOAD	340	1.00	340
RECEPTACLE (FIRST 10,000 VA)	10,000	1.00	10,000
RECEPTACLE (GREATER THAN 10,000 VA)	7,800	0.50	3,900
WATER HEATER	4,544	1.00	4,544
MISC LOADS	14,886	1.00	14,886
DEMAND LOAD - VOLT-AMPERES			167,273
DEMAND LOAD - 480V 3-PHASE AMPS			201.3

PANEL IS SIZED/RATED FOR 400 AMPS.

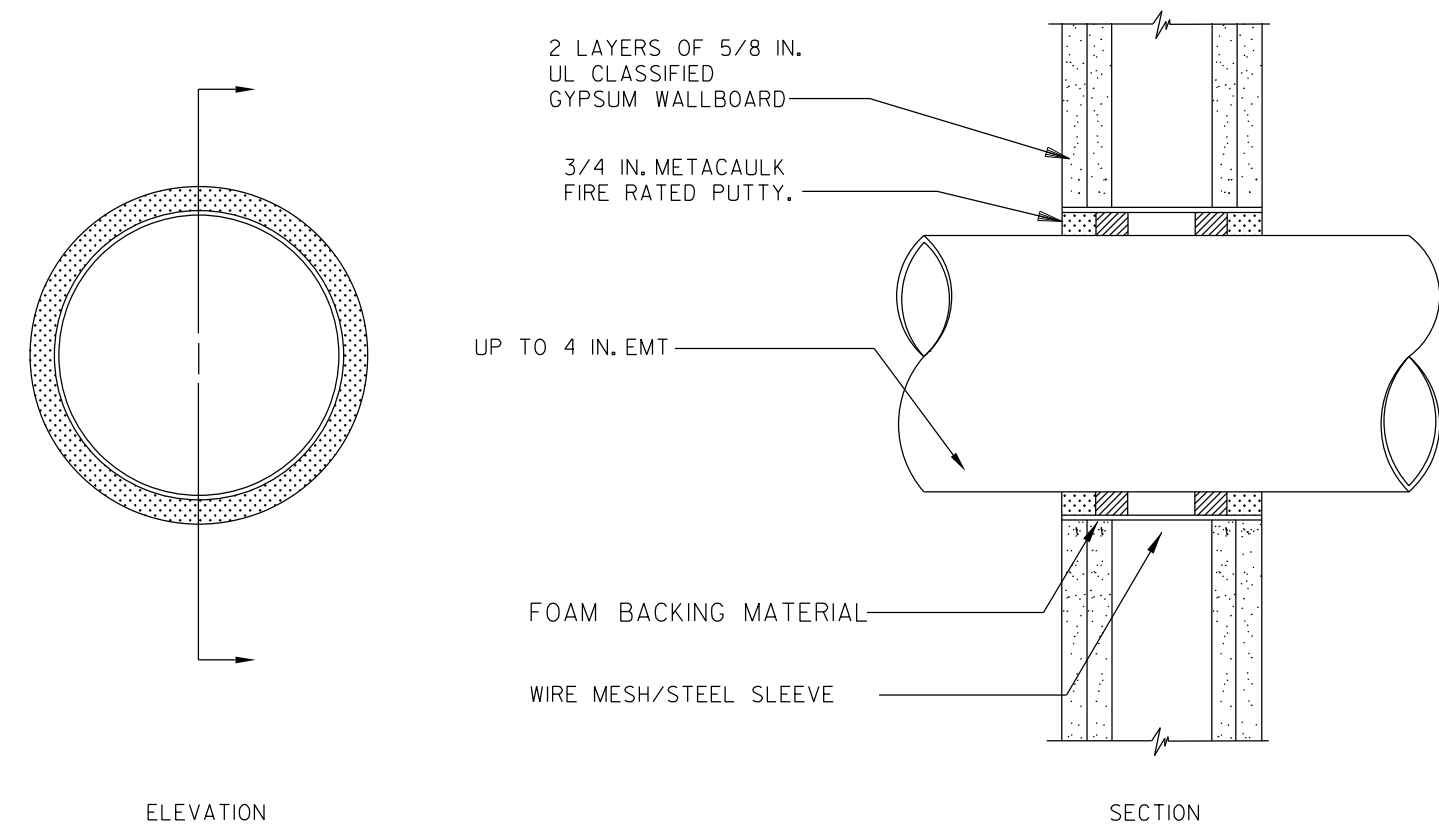
PANEL LD/LD2 DEMAND CALCULATIONS			
	CONNECTED LOAD (VA)	DEMAND FACTOR	CALCULATED DEMAND (VA)
TOTAL CONNECTED LOAD (VA)	67,614		
LIGHTING	1,000	1.25	1,250
HVAC	33,372	1.00	33,372
HVAC (CONTINUOUS)	0	1.25	0
LARGEST MOTOR	172	1.25	215
MOTOR LOAD	340	1.00	340
RECEPTACLE (FIRST 10,000 VA)	10,000	1.00	10,000
RECEPTACLE (GREATER THAN 10,000 VA)	7,800	0.50	3,900
WATER HEATER	44	1.00	44
MISC LOADS	14,886	1.00	14,886
DEMAND LOAD - VOLT-AMPERES			64,007
DEMAND LOAD - 208V 3-PHASE AMPS			177.8

PANEL IS SIZED/RATED FOR 400 AMPS.

VOLTAGE PHASE 3 WIRE 4 BUS AMPS	120			208			PANEL MAIN AMPS	LD2			LOCATION MOUNTING MAIN	HVAC / ELEC C08 SURFACE LUGS			
	400			400				400							
DESCRIPTION	VOLT AMPS			BRKR	P	CKT NO	BUS CONN	CKT NO	P	AMP	VOLT AMPS			DESCRIPTION	
	A	B	C	AMP							A	B	C		
LIGHT CONTROL	500			20	1	1	A	2	1	20				500	TB
* REFRIGERATOR		456		20	1	3	B	4	1	20		400			AV RECEPT.
* FREEZER			780	20	1	5	C	6	1	20			400		AV RECEPT.
* WARMING CABINET	1800			20	1	7	A	8	1	20				1500	PROJECTOR
* ICE MAKER		1086		20	1	9	B	10	1	20			1500		SCREEN
WARMING COUNTER			400	20	1	11	C	12	1	20		600			EXTERIOR RECEPT.
PREFUNCTION RECEPT.	1200			20	1	13	A	14	1	20					SPARE
PREFUNCTION RECEPT.		800		20	1	15	B	16	1	20					SPARE
CORRIDOR RECEPT.			800	20	1	17	C	18	1	20					SPARE
ACTIVITIES RECEPT.	600			20	1	19	A	20	1	20					SPARE
ACTIVITIES RECEPT.		600		20	1	21	B	22	1	20					SPARE
ACTIVITIES RECEPT.			600	20	1	23	C	24	1	20					SPARE
ACTIVITIES RECEPT.	600			20	1	25	A	26	1	20					SPARE
ACTIVITIES RECEPT.		400		20	1	27	B	28	1						SPACE
ACTIVITIES RECEPT.			600	20	1	29	C	30	1						SPACE
ACTIVITIES RECEPT.	600			20	1	31	A	32	1						SPACE
ACTIVITIES RECEPT.		400		20	1	33	B	34	1						SPACE
MICROWAVE			1608	20	1	35	C	36	1						SPACE
COFFEE BREWER	1656			20	1	37	A	38	1						SPACE
WARMING APPLIANCE		1500		20	1	39	B	40	1						SPACE
WARMING RECEPT.			400	20	1	41	C	42	1						SPACE
TOTALS	6956	5242	5188								1000	1900	2000		
VOLT AMPS	BUS A 8956			REMARKS: PANEL AND BREAKERS RATED FOR MINIMUM 21.5 KAIC											
	BUS B 7142			SECTION 2 OF 2											
	BUS C 6188			* PROVIDE GFCI BREAKER											
	TOTAL 22286														

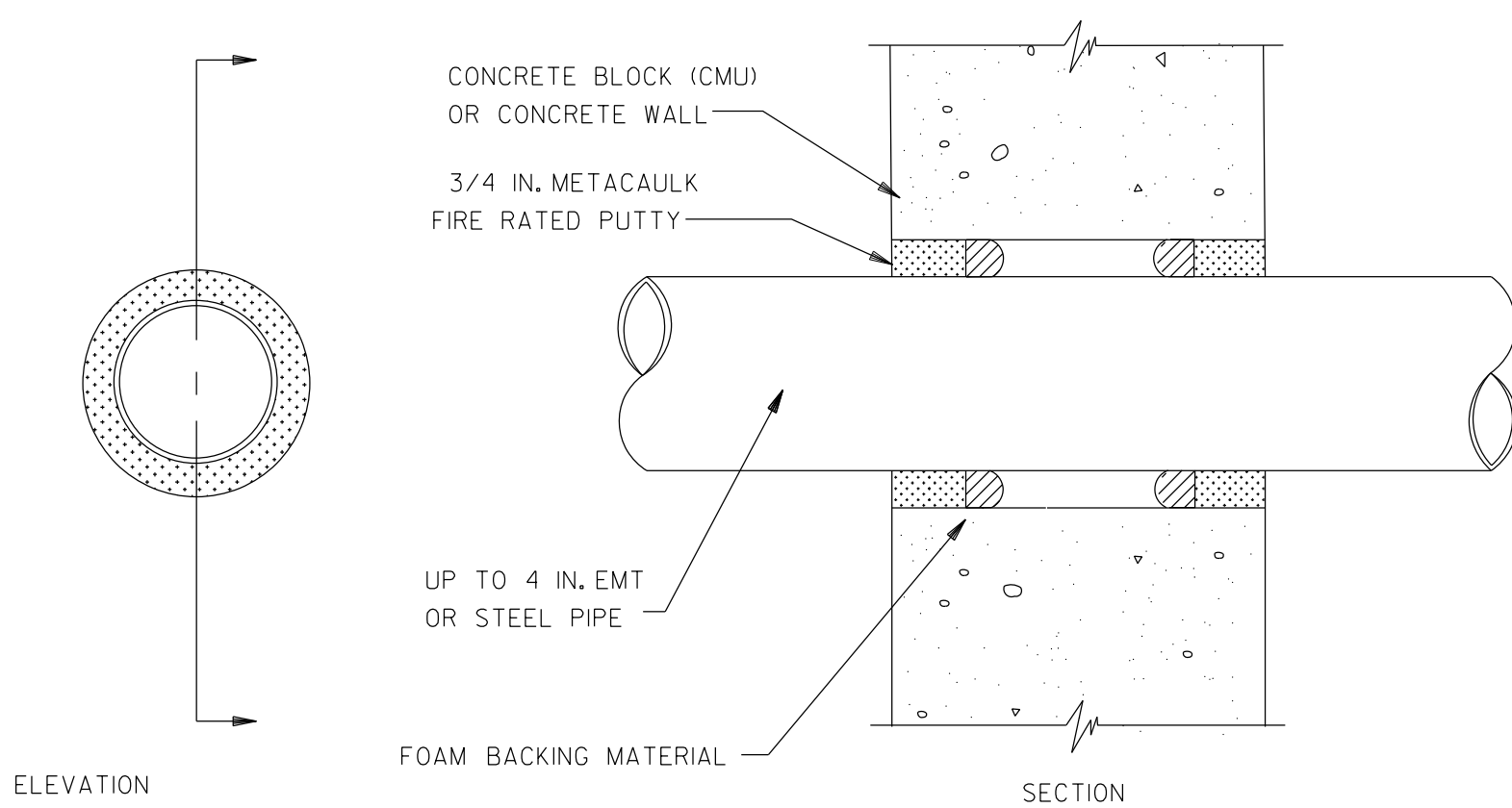






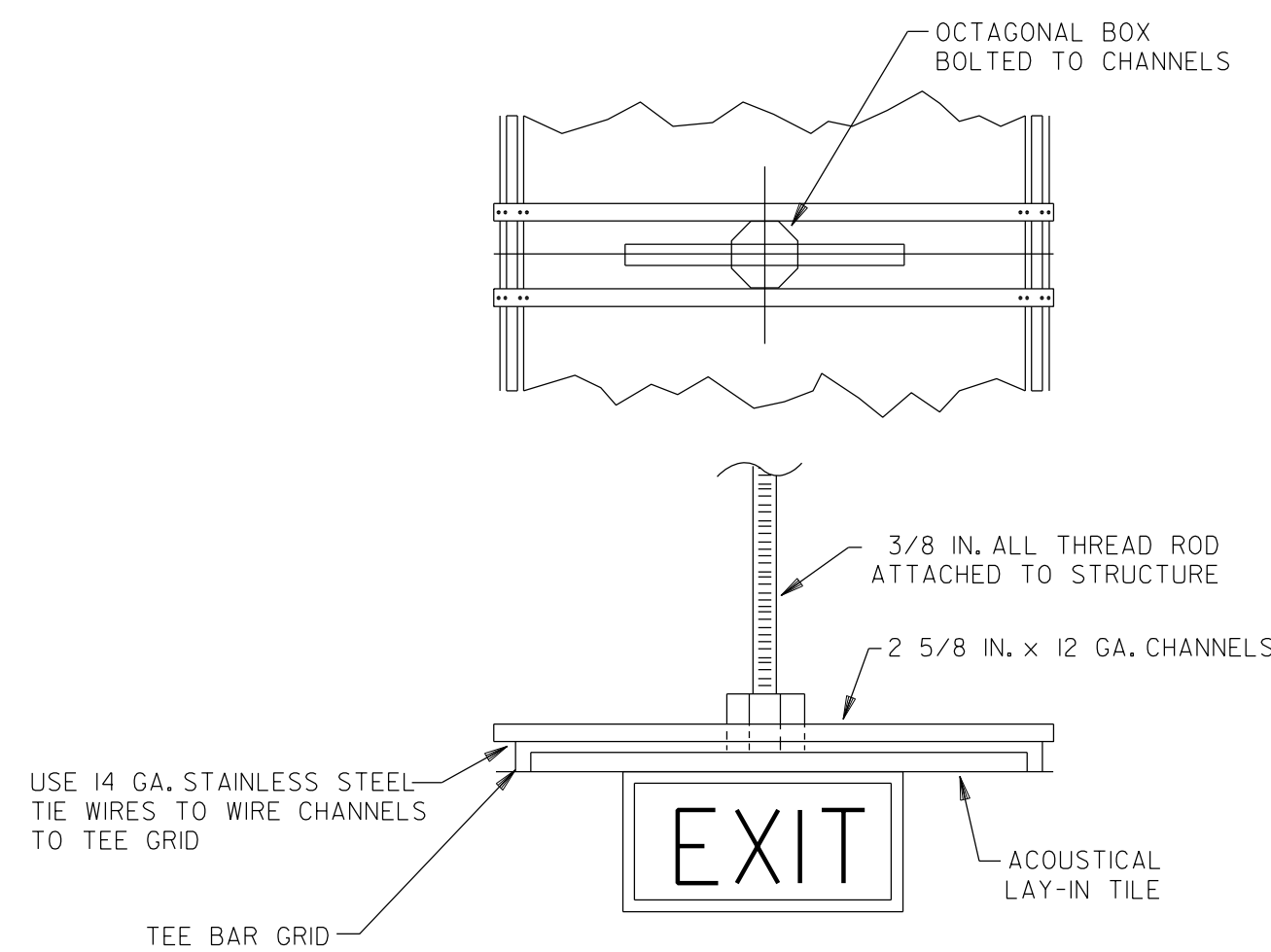
NOTE: WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW VOLTAGE CABLES THROUGH A RATED WALL, LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE.

1  
E-6.I  
DETAIL - GYPSUM WALLBOARD PENETRATION  
NOT TO SCALE

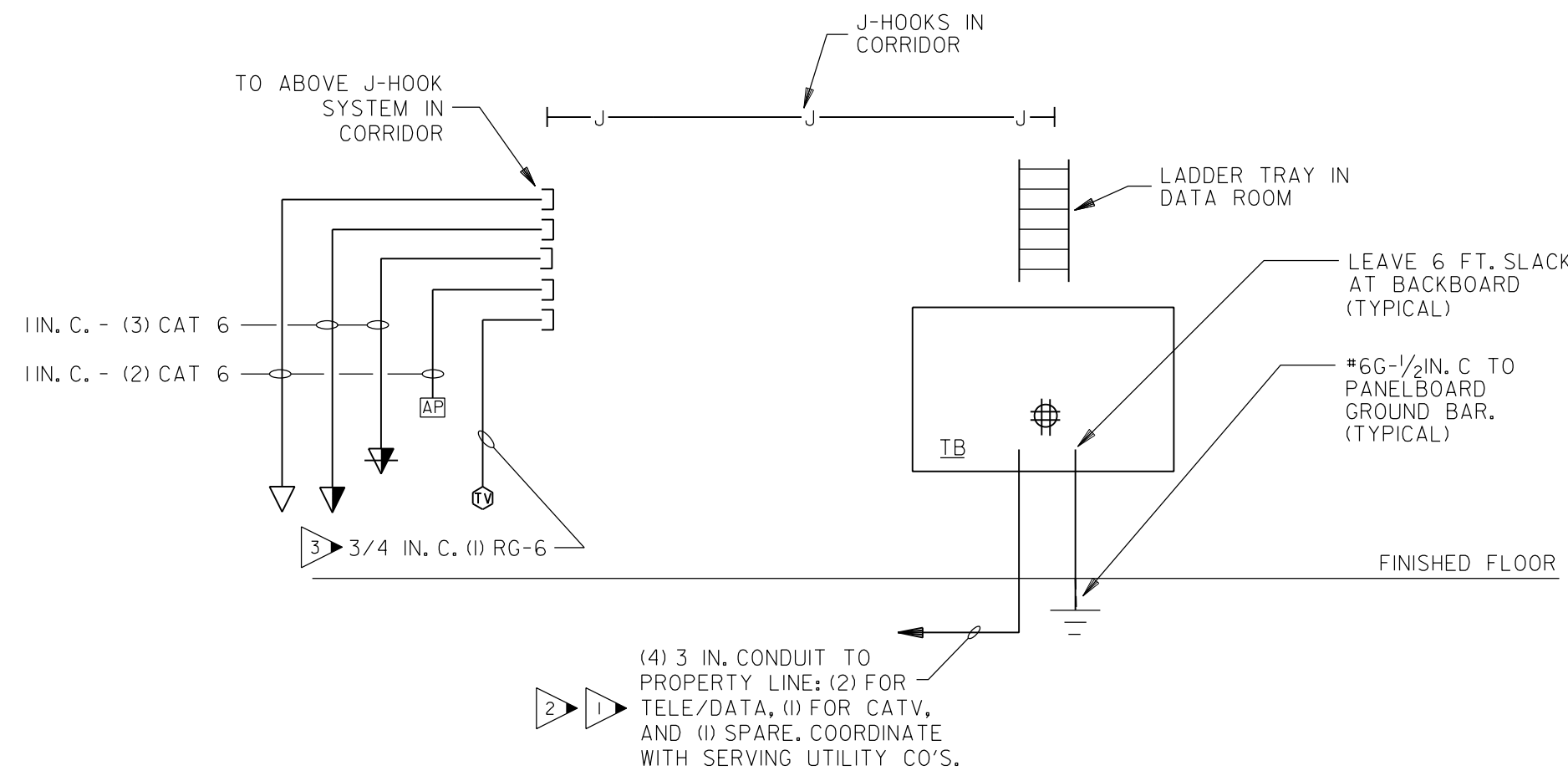


NOTE: WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW VOLTAGE CABLES THROUGH A RATED WALL, LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE.

2  
E-6.I  
DETAIL - CONCRETE WALL PENETRATION  
NOT TO SCALE

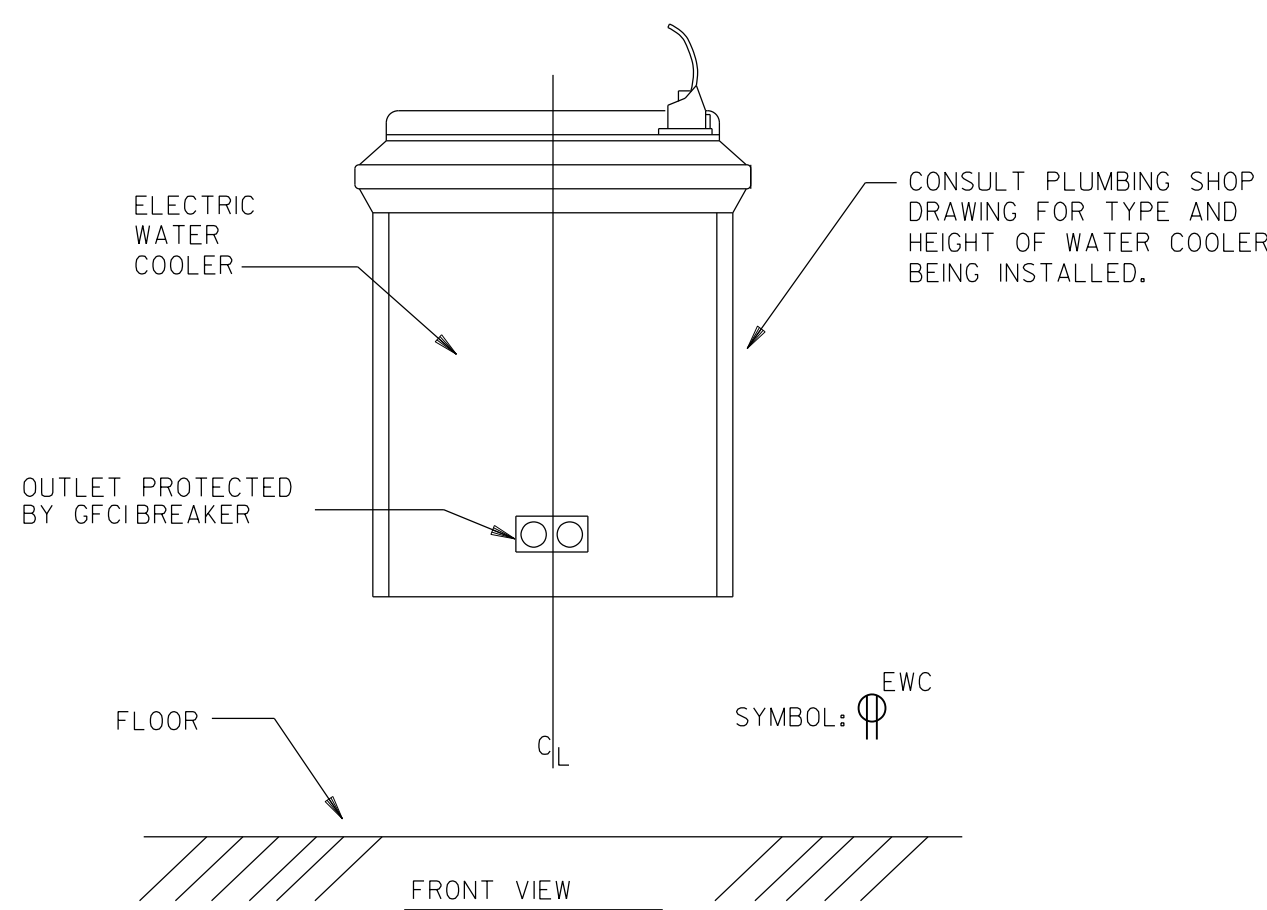


3  
E-6.I  
TYPICAL EXIT LIGHT MOUNTING DETAIL  
NOT TO SCALE

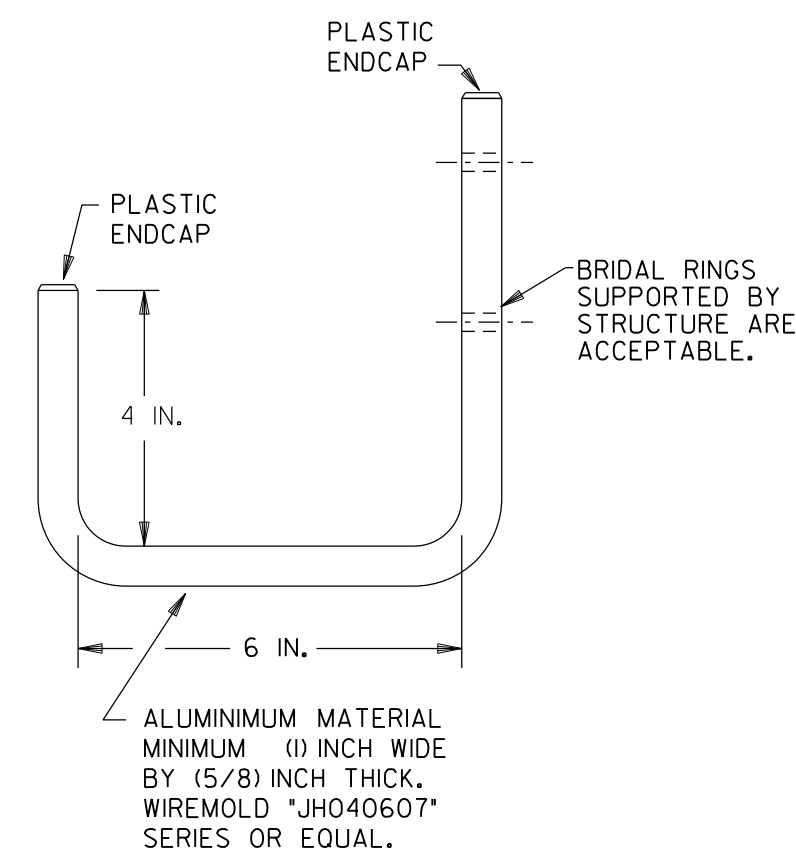


(4) 3 IN. CONDUIT TO PROPERTY LINE; (2) FOR TELE/DATA, (1) FOR CATV, AND (1) SPARE. COORDINATE WITH SERVING UTILITY CO'S.

4  
E-6.I  
TELEPHONE/DATA/CATV RISER  
NOT TO SCALE



5  
E-6.I  
TYPICAL RECEPACLE LOCATION @  
ELECTRIC WATER COOLER  
NOT TO SCALE



6  
E-6.I  
J-HOOK DETAIL  
NOT TO SCALE

## KEYED NOTES:(DETAIL 4/E-6.I ONLY)

- 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.
- PROVIDE (1) - 3 IN. CONDUIT WITH PULL STRING FOR CATV SYSTEM. COORDINATE EXACT STUB OUT LOCATION AT STREET WITH SERVING UTILITY COMPANY.
- LEAVE 6 FT. OF CABLE COIL AT BACKBOARD AND 1 IN. CABLE COIL IN OUTLET BOXES.

## WIRE MANAGEMENT NOTES

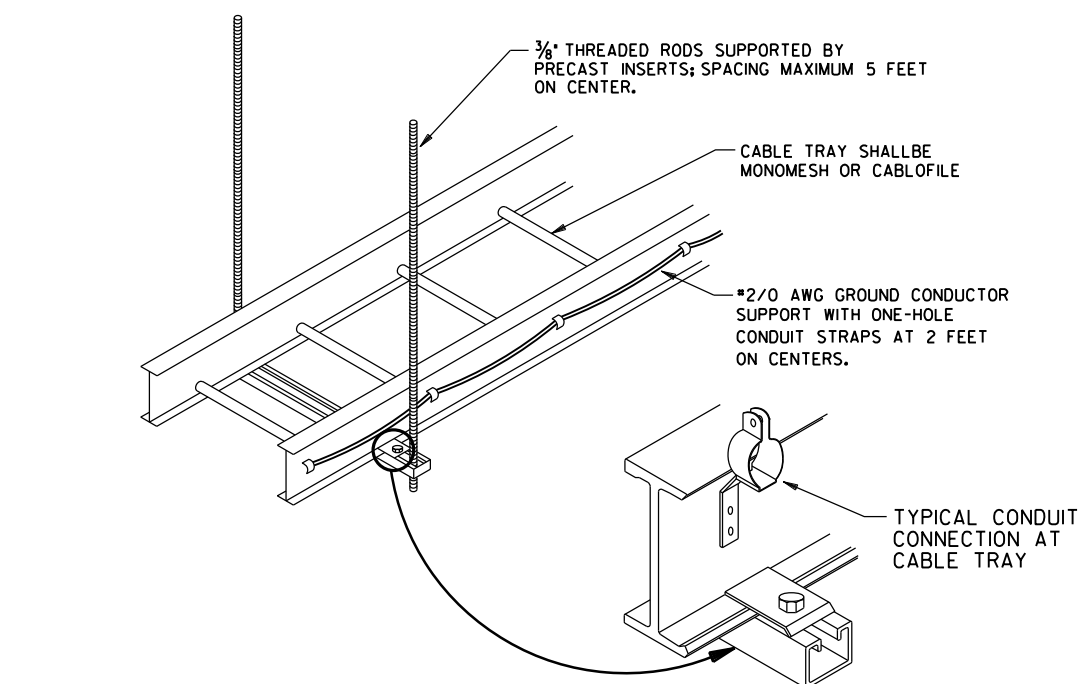
### NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FULL J-HOOK SYSTEM IN THE CORRIDORS FOR LOW VOLTAGE CABLING.
- ALL J-HOOKS SHALL BE SPACED NO MORE THAN 48 INCHES APART AND NO MORE THAN 12 INCHES FROM THE CORNER OF ANY SPACE.
- PROVIDE J-HOOKS NO MORE THAN 12 INCHES AWAY FROM CONDUIT SLEEVES.
- WHERE J-HOOKS ARE (2) ROWS: SPACING BETWEEN THE ROWS SHALL BE 12 INCHES.
- CONDUIT SLEEVES SHALL BE AT THE SAME LEVEL AS THE ROWS OF J-HOOKS.
- FIRE SEAL AROUND ALL CONDUIT SLEEVES. SEE ARCHITECTURAL SHEET FOR REQUIRED RATINGS.
- COORDINATE THE EXACT LEVEL OF J-HOOKS AND CONDUIT SLEEVES WITH OTHER TRADES PRIOR TO ROUGHING.
- 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.
- ALL CABLING SHALL BE NEATLY BUNDLED UTILIZING "NOT A CINCH" TYPE RATED VELCRO TIE WRAPS.
- J-HOOKS SHALL SUPPORT CABLING FOR: FIRE ALARM, DATA, TELEPHONE, CABLETV, SOUND, AND SECURITY.
- 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.
- SEE DETAIL - CONCRETE WALL PENETRATION, 2/E-6.I.
- SEE DETAIL - GYPSUM WALLBOARD PENETRATION, 1/E-6.I.
- WHERE J-HOOKS ARE REQUIRED ABOVE SOLID SOFFITS MORE THAN TWO FEET WIDE, PROVIDE J-HOOKS HUNG FROM STRUCTURE (4 HOOKS PER 3/8 IN THREADED ROD).
- PROVIDE (2) 2 INCH CONDUIT SLEEVES INTO ALL SPACES FROM CORRIDOR WHERE RATED WALLS OCCUR.

## GENERAL NOTES:(DATA CABLING)

- ADDITIONAL WALL SLEEVES AND WALL PENETRATIONS WILL BE REQUIRED FOR NETWORK CABLING. PROVIDE AS NECESSARY AND FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS.
- ALL JACKS SHALL BE PROVIDED WITH ICON DENOTING DATA OR VOICE OUTLET. OUTLET SHALL BE LABELED WITH FOLLOWING NOMENCLATURE.  
D M XXX  
JACK NUMBER  
MDF OR IDF DESIGNATION FROM WHICH JACK IS SERVED,  
D OR V INDICATING VOICE OR DATA OUTLET.  
ALL PATCH PANELS AND IO BLOCKS SHALL BE CORRESPONDINGLY LABELED.
- PROVIDE METAL D-RING OR RING RUNS AS NECESSARY TO PROPERLY LACE AND SUPPORT ALL CABLING AT BACKBOARDS.
- REFER TO/IN PLANS SHOWING OUTLET LOCATIONS, PANEL LOCATIONS, CEILING TYPES, ETC.
- GROUND ALL RACKS WITH #6 COPPER LOCATED AT EACH BACKBOARD. CONTRACTOR SHALL ROUTE #6, 3/4 IN. 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 3/4 IN. x 4 FT. x 8 FT. BACKBOARD PAINTED WITH TWO COATS OF BLACK FIRE RETARDANT PAINT.

- 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.
- REFER TO SPECIFICATIONS FOR CABLING. ALL CABLING SHALL BE PLENUM RATED.
- PROVIDE VELCRO CABLE WRAPS AT RACKS TO PROPERLY LACE AND TRAIN PATCH CORDS AT RACKS IN AN ORDERLY FASHION.
- FIELD VERIFY MOUNTING SPACE IN DATA RACK ROOM. PROVIDE WALL MOUNTED RACKS WHERE NECESSARY.
- 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.
- NETWORK HUBS AND ELECTRONICS, RACK MOUNTED UPS, PATCH CORDS AND FIBER OPTIC PATCH CORDS ARE INCLUDED IN CONTRACT.
- REFER TO POWER SHEETS FOR ADDITIONAL INFORMATION.
- SEE WIRE MANAGEMENT NOTES.



7  
E-6.I  
LADDER CABLE TRAY  
NOT TO SCALE  
NOTE: LADDER TRAY ONLY IN DATA AND LOW VOLTAGE ROOMS. SEE DRAWINGS FOR LADDER TRAY SIZE.

# BRAVO BLDG SET 04-21-2025

PHASE 2

Seal:  
**GEORGIA**  
REGISTERED  
PROFESSIONAL  
ENGINEER  
**JEFFREY H. MOORE**

**ELECTRICAL DESIGN**  
**CONSULTANTS, INC.**  
175 NEW ST., STE. 1  
MACON, GA 31201  
E-6.I M24004

Client:  
**SUNBELT**  
BUILDERS  
10841 HWY. 36, CONNINGTON, GA 30014, TEL: 770 786 3031

Project:  
**R. L. COUSINS CENTER**  
**NEWTON CO. BOC RFP #24-04**  
8134 CEIGER STREET, N.W.  
CONNINGTON, GEORGIA.

Issue	Date	Initial	Drawn	Revision	Description
06-27-24	TAW			FOR CONSTRUCTION	

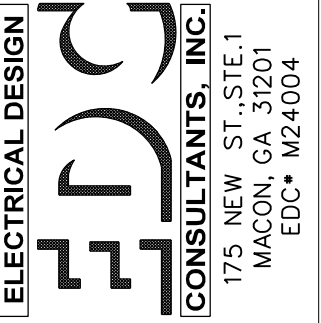
Project No.: 2023012  
Drwg. Date: 06/27/24  
Drwg. Revision:  
Drawn By: TAW  
Checked By: JHM  
File Name:

Sheet Title:  
**ELECTRICAL DETAILS**

Sheet No.:  
**E-6.1**

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**sinBEL**  
B U I L D E R S<sup>TM</sup>

R. L. COUSINS CENTER  
NEWTON CO. BOC RFP #24-04  
818134 GEIGER STREET, N.W.  
COWINGTON, GEORGIA.

[illegible]

Project No.: 2023012
Drawn Date: 06/27/24
Drawn Revision:
Drawn By: TAW
Checked By: JHM
File Name:

Sheet Title:  
**LIGHTING COMCHECK  
REPORTS**

Sheet No.:  
E-6.2



# Interior Lighting Compliance Certificate

## Project Information

Energy Code:	2015 IECC
Project Title:	R. L. Cousins Center Phase 2
Project Type:	New Construction

Construction Site: \_\_\_\_\_ Owner/Agent: \_\_\_\_\_

8134 Geiger Street N.W.  
Covington, GA 30014

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed  
Enhanced Interior Lighting Controls, 1.0 credit

### Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Community Center (Town Hall)	9470	0.89	8428
		Total Allowed Watts =	8428

### Proposed Interior Lighting Power

A		B	C	D	E
Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	Lamps / Fixture	# of Fixtures	Fixture Watt.	(C X D)	
<b>1-Community Center (Town Hall)</b>					
A : A 2 FT. X 4 FT. TROFFER LED Panel 33W.	1	29	34	986	
B : B 4 FT. LED STRIP LED Other Fixture Unit 36W.	1	6	36	216	
C : C 6 IN. CYLINDER DOWNLIGHT LED Other Fixture Unit 16W.	1	72	18	1296	
D : D 6 IN. DOWNLIGHT LED Other Fixture Unit 16W.	1	100	19	1900	
E : E TRACK #1: Wattage based on current limiting device capacity	0	0	120	120	
F : E TRACK #2: Wattage based on current limiting device capacity	0	0	120	120	
F : F 1-FOOT FLEXIBLE UPLIGHT: Other.	1	265	3	855	
G : G 4 FT. LED STRIP LED Other Fixture Unit 36W.	1	6	36	216	
Total Proposed Watts =				5709	

Interior Lighting PASSES: Design 32% better than code

### Interior Lighting Compliance Statement

**Compliance Statement:** The proposed interior lighting design 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 COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jeffrey H. McGee, PE

Name - Title

Signature \_\_\_\_\_

04/18/24  
Date

Project Title: R. L. Cousins Center Phase 2 Report date: 04/18/24  
Data filename: Z:\2024 CAD\124004 RL Cousins Center\WORKING DRAWINGS\ELEC\PHASE 2\RL Cousins Phase  
COMcheck.cck



## Exterior Lighting Compliance Certificate

## Project Information

Energy Code:	2015 IECC
Project Title:	R. L. Cousins Center Phase 2
Project Type:	New Construction
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)
Building Exterior (Walkway < 10 feet wide)	250 ft of	0.7	Yes	175
Overhang (Entry canopy)	1940 ft2	0.25	Yes	485
Stairs (Stairway)	630 ft2	1	Yes	630
		Total Tradable Watts (a) =		1290
		Total Allowed Watts =		1290
		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	B	C	D	E
Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	Lamps / Fixture	# of Fixtures	Fixture Watt.	(C X D)
<b>Building Exterior (Walkway &lt; 10 feet wide 250 ft of walkway length): Tradable Wattage</b>				
OA: OA: ARCHITECTURAL WALL PACK LED Other Fixture Unit 36W:	1	7	36	252
<b>Overhang ( Entry canopy 1940 f2): Tradable Wattage</b>				
OB: OB: 6 IN. DOWNLIGHT LED Other Fixture Unit 25W:	1	19	23	437
<b>Stairs ( Stairway 830 f2): Tradable Wattage</b>				
OC: OC: LED STEP LIGHT LED Other Fixture Unit 6.5W:	1	15	8	128
OD: OD: 1 FT. LED FLEXIBLE FIXTURE: Other:	1	180	1	252
<b>Total Tradable Proposed Watts =</b>	<b>1068</b>			

**Exterior Lighting PASSES: Design 43% better than code**

## Exterior Lighting Compliance Statement

**Compliance Statement:** The proposed exterior lighting design 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 COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jeffrey H. McGee, PE

Name - Title

Signature \_\_\_\_\_

04/18/24  
Date

BRAVO BLDG SET 04-21-2025

PHASE 2