FAYETTE COUNTY

FIRE STATION NO. 4

278 MCELROY ROAD
FAYETTEVILLE, GA 30214

09.27.18 FOR BID

OWNER
FAYETTE COUNTY
140 STONEWALL AVE WEST
FAYETTEVILLE, GA 30214
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CONTACT: DAVID SCARBROUGH
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CCARVER@CROYENGINEERING.COM

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405 MILLARD FARMER ROAD SUITE B
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MSG@GEA-LLC.COM

ELECTRICAL
MADDOX GROUP INC.
9309 SEMINOLE ROAD
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MADDOXGROUP@COMCAST.NET

GENERAL NOTES

1 THE GC SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL DIMENSIONS AND CONDITIONS OF CONTRACT DOCUMENTS PRIOR TO ORDERING OF MATERIALS AND PROCEEDING WITH THE WORK. THE GC IS TO NOTIFY THE ARCHITECT OF ALL DISCREPANCIES AND QUESTIONS AND OBTAIN REQUIRED CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK.

2. DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN.

3. ALL PLUMBING CHASES ARE TO BE VENTED INTO SOFFITS WHERE POSSIBLE AND REQUIRED WHERE UNVENTED SOFFITS ARE INDICATED, REFER TO ELEVATIONS FOR LOCATIONS.

4. GC SHALL PROVIDE AND INSTALL EQUIPMENT AND/OR APPLIANCES SPECIFIED UNLESS OTHERWISE NOTED. GC SHALL PROVIDE INSTALLATION OF OWNER FURNISHED EQUIPMENT AND/OR APPLIANCES WHERE DESIGNATED. GC TO VERIFY WITH OWNER ALL PLUMBING AND ELEC. REQUIREMENTS FOR OWNER FURNISHED EQUIPMENT AND/OR APPLIANCES.

5. GC TO UNDERCUT DOORS AS REQUIRED FOR FLOOR FINISHES, BUT NO MORE THAN CODE ALLOWS FOR RATING REQUIREMENTS. VERIFY ALL UNDERCUT LOCATIONS WITH ANY NOTED REQUIREMENTS PER MECHANICAL DRAWINGS.

6. PROVIDE BRACING ABOVE GLAZED OPENING FRAMES, CEILING HEIGHT PARTITIONS WHEN LONG UNBRACED LENGTHS OCCUR AND AT ALL DOORS AND GLAZED OPENING JAMBS AND MULLIONS IN ACCORDANCE WITH MANUFACTURES SPECIFICATIONS.

7. FLOOR TOLERANCE: IN LAYING OUT AND DETAILING THE WORK TO BE COMPLETED, CONSIDERATION SHALL BE GIVEN TO VARIATIONS IN THE FLOOR LEVELNESS RESULTING FROM CONSTRUCTION QUALITY AND LIVE AND DEAD LOADS IMPOSED ON THE STRUCTURE. FIELD VERIFICATIONS SHALL BE MADE OF CONDITIONS TO VERIFY CONSTRUCTION TOLERANCES, ALIGNMENT OF DOOR HEADS AND OTHER HORIZONTAL ELEMENTS SHALL BE MAINTAINED AT A CONSTANT LEVEL AND SHALL NOT FOLLOW VARIATIONS IN FLOOR PLANE.

8. ALL WOOD USED AS STUDS, BLOCKING, OR BRACING SHALL BE FIRE TREATED AS REQUIRED BY CODE. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY BLOCKING TO ACCOMMODATE INTERIOR FINISHES AND EQUIPMENT AS DESCRIBED IN THE DOCUMENTS.

9. "TYPICAL" MEANS THE REFERENCED DETAIL SHALL APPLY FOR ALL SIMILAR CONDITIONS UNLESS NOTED OTHERWISE.

10. ALL HEIGHTS FOR HANDICAP ELEMENTS ARE TO BE IN ACCORDANCE WITH THE ADA FOR MAKING FACILITIES ACCESSIBLE AND USABLE FOR PHYSICALLY HANDICAPPED PEOPLE. THE GC IS RESPONSIBLE FOR COORDINATION AND PROPER INSTALLATION OF ALL RELATED ELEMENTS.

11. FURNISH ACCESS PANELS IN WALLS AND NON-ACCESSIBLE TYPE CEILINGS WHERE SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT MAY BE REQUIRED. ACCESS PANELS SHALL BE EQUAL IN FIRE RATING TO SURFACE IN WHICH THEY OCCUR. REFER TO CONSULTANT DRAWINGS FOR ANY SPECIFIC REQUIREMENTS. FINAL LOCATIONS OF PANELS NOT SHOWN ON ARCHITECTURAL CEILING PLANS SHALL BE APPROVED BY THE ARCHITECT.

12. PROVIDE CONTROL JOINTS IN GYPSUM WALL BOARD SURFACES AS REQUIRED BY MANUFACTURERS SPECIFICATIONS.

13. ALL EXTERIOR LUMBER EXPOSED TO MOISTURE SHALL BE PRESSURE TREATED, UNLESS OTHERWISE SPECIFIED ON PLANS.

14. THE CONTRACTOR IS RESPONSIBLE FOR ALL MECHANICAL AND ELECTRICAL ITEMS INDICATED ON ALL CONSTRUCTION DOCUMENTS. ALL ITEMS INDICATED ON ANY DRAWING ARE TO BE INCLUDED AS A COMPLETE SYSTEM.

15. WHERE ELECTRICAL, MECHANICAL, AND/OR OTHER WALL MOUNTED DEVICES OCCUR AT THE SAME LOCATION BUT AT DIFFERENT HEIGHTS, THEY SHALL BE CENTERED ABOVE EACH OTHER.

16. OWNER HAS FINAL APPROVAL OF BUILDING MATERIALS, FINISH CHOICES, AND FIXTURE AND APPLIANCE CHOICES.

17. CONTRACTOR WILL BE RESPONSIBLE FOR ACQUIRING AND FOLLOWING MANUFACTURERS SPECIFICATIONS FOR ALL EQUIPMENT, MATERIALS, AND CONSTRUCTION SYSTEMS.

18. CONTRACTOR WILL BE RESPONSIBLE FOR ALL TEMPORARY STRUCTURE FOR WEATHERPROOFING, SECURITY, PRIVACY, AND SUPPORT.

19. ALL ADVERSE CONDITIONS OF SITE AND BUILDING DISCOVERED DURING WORK MUST BE REPORTED TO THE OWNER/ARCHITECT IMMEDIATELY.

GENERAL NOTES (CONT.)

19. CONTRACTOR WILL BE RESPONSIBLE FOR THE DISPOSABLE OF ALL CONSTRUCTION DEBRIS.

20. ALL MATERIALS STORED ON SITE MUST BE SECURED BY CONTRACTOR.

21. ALL MATERIALS STORED OFF SITE SHALL BE STORED IN A BONDED WAREHOUSE.

22. CONTRACTOR MUST LOCATE AND MARK ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND/OR DEMOLITION.

23. ALL UTILITIES AND EQUIPMENT WILL BE TESTED AND PROVED IN WORKING ORDER BEFORE JOB IS DEEMED COMPLETE.

24. CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF GOVERNING FEDERAL, STATE, AND LOCAL CODES

25. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY OTHER REQUIRED STRUCTURAL, ELECTRICAL, MECHANICAL, PLUMBING, AND/OR CIVIL INFORMATION NOT INCLUDED IN THE FINAL DRAWINGS.

26. PARTITIONS ARE DIMENSIONED TO FACE OF STUD UNLESS NOTED OTHERWISE. DIMENSIONS SHOWN ON DRAWINGS SHALL BE CONSIDERED CRITICAL. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT OF DEVIATIONS IN THE PLACEMENT OF WORK PER THESE DIMENSIONS.

27. SEPARATE DISSIMILAR METALS AS DIRECTED TO PREVENT GALVANIC ACTION

28. THE DRAWINGS ILLUSTRATE GENERAL WORK SCOPE REQUIREMENTS AND DO NOT ELABORATE ON INSTALLATION TECHNIQUES. WORK PERFORMED SHALL MEET OR EXCEED INDUSTRY STANDARDS, BE PERFORMED IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS, AND SHALL CONFORM TO ALL APPLICABLE BUILDING CODES.

29. REFER TO INDIVIDUAL SHEETS FOR NOTES RELATED TO SPECIFIC PARTS OF THE WORK.

30. COORDINATE ALL PLACEMENT AND SIZING OF STEEL MEMBERS & STRUCTURAL COMPONENTS W/ STRUCTURAL DRAWINGS.

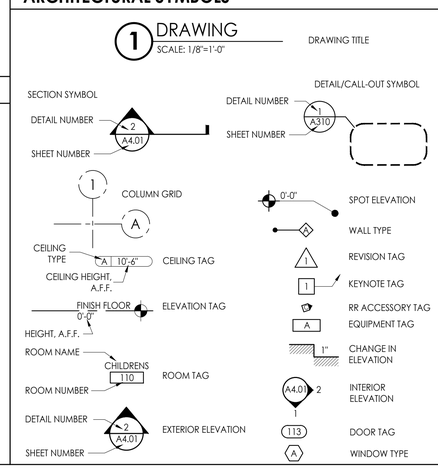
ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE
ADA	AMERICAN DISABILITIES ACT
AFF	ABOVE FINISH FLOOR
ALUM	ALUMINUM
ASST	ASSISTANT
AUTO	AUTOMATIC
BLDG	BUILDING
BM	BEAM
BO	BOTTOM OF
BOT	BOTTOM OF TRUSS
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONT	CONTINUOUS
CORR	CORRIDOR
COORD	COORDINATE
CMU	CONCRETE MASONRY UNIT
DBL	DOUBLE
DIA	DIAMETER
DIM	DIMENSION
DS	DOWNSPOUT
DWG	DRAWING
EA	EACH
ELEC	ELECTRIC(AL)
ELEV	ELEVATION
EOS	EDGE OF SLAB
EQ	EQUAL
EW	EACH WAY
EXIST	EXISTING
EXP	EXPOSED
EXP JT	EXPANSION JOINT
EXT	EXTERIOR
FDC	FIRE DEPARTMENT CONNECTION
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FFE	FINISH FLOOR ELEVATION
FLR	FLOOR
FRP	FIBERGLASS REINFORCED PANEL
FRT	FIRE RETARDENT TREATED
FOB	FACE OF BRICK
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GWB	GYPSUM WALL BOARD
WD	WOOD
WWF	WELDED WIRE FABRIC

ABBREVIATIONS (CONT)

HCP	HANDICAPPED
HM	HOLLOW METAL
INSUL	INSULATION
INT	INTERIOR
JBE	JOIST BEARING ELEVATION
JT	JOINT
LAV	LAVATORY
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MTL	METAL
NA	NOT APPLICABLE
NFWH	NON-FREEZE WALL HYDRANT
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OPP	OPPOSITE
OPT	OPTION (AL)
ORD	OVERFLOW ROOF DRAIN
PLAM	PLASTIC LAMINATE
PL	PLATE
PLY	PLYWOOD
PT	PRESSURE TREATED
PTD	PAINTED
RD	ROOF DRAIN
REQ	REQUIRED
REINF	REINFORCED
RO	ROUGH OPENING
SAB	SOUND ATTENUATION BATTS
SCW	SOLID CORE WOOD
SIM	SIMILAR
SOG	SLAB ON GRADE
STN	STAIN
STRUCT	STRUCTURAL
TO	TOP OF
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
WD	WOOD
WWF	WELDED WIRE FABRIC

ARCHITECTURAL SYMBOLS



DRAWING INDEX

SHEET #	SHEET NAME	08.23.18 FOR REVIEW	09.27.18 FOR BID
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C - 200	SITE PLAN		●
C - 201	VEHICLE TRACKING		●
C - 300	UTILITY PLAN		●
C - 301	UTILITY PLAN		●
C - 400	GRADING & DRAINAGE PLAN		●
C - 500	DETENTION POND PLAN, PROFILE & DETAILS		●
C - 600	PROFILES		●
C - 700	CONCRETE JOINT LAYOUT		●
C - 800	SEPTIC FIELD PLAN		●
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C - 1002	CONSTRUCTION DETAILS		●
C - 1003	CONSTRUCTION DETAILS		●
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P204	FLOOR PLAN - COMPRESSED AIR PIPING		●
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CODE SUMMARY

BUILDING DEPARTMENT

DEPARTMENT OF BUILDING SAFETY
140 STONEWALL AVE WEST SUITE 201
FAYETTEVILLE, GA 30214
770.305.5130

APPLICABLE CODES AND REGULATIONS

BUILDING	2012 INTERNATIONAL BUILDING CODE W/ GA AMENDMENTS
MECHANICAL	2012 INTERNATIONAL MECHANICAL CODE W/ GA AMENDMENTS
PLUMBING	2012 INTERNATIONAL PLUMBING CODE W/ GA AMENDMENTS
ELECTRICAL	2011 NATIONAL ELECTRICAL CODE W/ GA AMENDMENTS
FIRE	2012 INTERNATIONAL FIRE CODE W/ GA AMENDMENTS
GAS	2012 INTERNATIONAL FUEL GAS CODE W/ GA AMENDMENTS
ENERGY	2009 INTERNATIONAL ENERGY CONSERVATION CODE W/ GA AMENDMENTS

2012 NFPA 101: LIFE SAFETY CODE
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

OCCUPANCY/CONSTRUCTION REQUIREMENTS

IBC 2012 / NFPA 101 2012	RESIDENTIAL (R2) LODGING/BOARDING HOUSE	IBC 2012 / NFPA 101 2012	STORAGE (S2) STORAGE (ORDINARY HAZARD)
CONSTRUCTION TYPE (IBC)	VA SPRINKLED	CONSTRUCTION TYPE (IBC)	VA SPRINKLED
FIRE RATINGS		FIRE RATINGS	
STRUCTURAL FRAME:	0 HOURS	STRUCTURAL FRAME:	0 HOURS
BEARING WALLS - EXTERIOR:	0 HOURS	BEARING WALLS - EXTERIOR:	0 HOURS
BEARING WALLS - INTERIOR:	0 HOURS	BEARING WALLS - INTERIOR:	0 HOURS
FLOOR CONSTRUCTION:	0 HOURS	FLOOR CONSTRUCTION:	0 HOURS
ROOF CONSTRUCTION:	0 HOURS	ROOF CONSTRUCTION:	0 HOURS
OCCUPANCY SEPARATION (IBC 508.4)	RESIDENTIAL/STORAGE (S2) SPRINKLED 1 HOUR FIRE SEPARATION	OCCUPANCY SEPARATION (IBC 508.4)	RESIDENTIAL/STORAGE (S2) SPRINKLED 1 HOUR FIRE SEPARATION
AREA ALLOWED (IBC 503)		AREA ALLOWED (IBC 503)	
RESIDENTIAL (R2)		STORAGE (S2)	
PROVIDED:	4,696	PROVIDED:	5,526
ALLOWED:	12,000	ALLOWED:	21,000
HEIGHT ALLOWED (IBC 503) (504.2)		HEIGHT ALLOWED (IBC 503)	
RESIDENTIAL (R2)		STORAGE (S2)	
PROVIDED:	1 STORY/40 FEET	PROVIDED:	1 STORY/40 FEET
ALLOWED:	4 STORIES/60 FEET	ALLOWED:	4 STORIES
OCCUPANT LOAD FACTOR		OCCUPANT LOAD FACTOR	
NFPA 101 2012:	26.1.1.1	NFPA 101 2012:	7.3.1.2
OCCUPANT LOAD -16		OCCUPANT LOAD -NA	

EGRESS REQUIREMENTS (NFPA)

LODGING/BOARDING HOUSES	STORAGE
EGRESS WIDTH FACTOR (7.3.3.1):	EGRESS WIDTH FACTOR (7.3.3.1):
LEVEL COMPONENTS = 0.2" PER PERSON	LEVEL COMPONENTS = 0.2" PER PERSON
EGRESS WIDTH REQUIRED: 3.2" (36" MIN)	EGRESS WIDTH REQUIRED: 3.2" (36" MIN)
EGRESS WIDTH PROVIDED:	EGRESS WIDTH PROVIDED:
36" MIN AT ALL DOORS/CORRIDORS	36" MIN AT ALL DOORS/CORRIDORS
TRAVEL DISTANCE :	TRAVEL DISTANCE :
REQUIRED: 0'	REQUIRED: 400'
PROVIDED: 79'	PROVIDED: 93'
COMMON PATH OF TRAVEL:	COMMON PATH OF TRAVEL:
REQUIRED: 0'	REQUIRED: 100'
PROVIDED: 37"	PROVIDED: 93'
DEAD-END CORRIDOR:	DEAD-END CORRIDOR:
REQUIRED: 0'	REQUIRED: 100'
PROVIDED: 0'	PROVIDED: 0'
EXITS REQUIRED: 1 (26.1.3.2.1)	EXITS REQUIRED: 1 (42.2.4.1)
EXITS PROVIDED: 1	EXITS PROVIDED: 1
MIN EXIT SEPARATION DISTANCE:	MIN EXIT SEPARATION DISTANCE:
REQUIRED: 0'	REQUIRED: NA
PROVIDED: 116'	
PRIMARY MEANS OF ESCAPE MUST COMPLY WITH CHAPTER 24 (26.2.1.1.1)	
MEANS OF ESCAPE (24.2.2.1.2)	
REQUIRED: 1 PER SLEEPING ROOM	
PROVIDED:1 PER SLEEPING ROOM	
SEPARATION OF SLEEPING ROOMS (26.3.5.1) (8.4) ACOUSTICAL CEILING TILE MEETS THE REQUIREMENTS FOR A SMOKE PARTITION (A8.4.2.2)	

BUILDING OCCUPANT SUMMARY (FOR LIFE SAFETY/EGRESS)

SPACE	AREA (SF)	OCC. LOAD FACTOR	OCC. LOAD
LODGING/ ROOMING HOUSE: 26.1.1.1	4,696	NA	16
STORAGE (S-2): 7.3.1.2	5,526	NA	NA
		TOTAL PERSONS	16

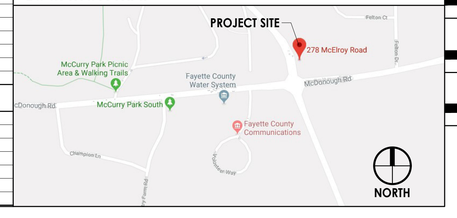
PLUMBING FIXTURE REQUIRMENTS (PER IBC 2902.1)

PLUMBING FIXTURE - RESIDENTIAL (R-2): TOTAL OCCUPANT LOAD 16

DESCRIPTION	WATER CLOSET	LAVATORY	SHOWER/BATHTUB	DRINKING FOUNTAIN	KITCHEN SINK	CLOTHES WASHER	SERVICE SINK
REQUIRED	1 PER DWELLING UNIT	1 PER DWELLING UNIT	1 PER DWELLING UNIT	0	1	1	1
PROVIDED	4	4	3	1	1	1	1

*PER 2012 IPC SECTION 410 - UP TO 50% SUBSTITUTION BY BOTTLE WATER DISPENSERS SHALL BE PERMITTED. THE REMAINING 50% OF DRINKING FOUNTAINS WILL BE PROVIDED BY THE TENANT.
*2902.2 SEPARATE FACILITIES EXCEPTION: SEPARATE FACILITIES SHALL NOT BE REQUIRED FOR DWELLING UNITS AND SLEEPING UNITS.

LOCATION MAP



architecture
interiors
town planning

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DATE	COMMENTS
08.16.2018	50% REVIEW
08.23.2018	CLIENT REVIEW
09.27.18	FOR BID

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STATE OF GEORGIA
RICHARD A. OLDHAM
CERTIFICATE NO. 000000
REGISTERED ARCHITECT

FAYETTE CO.
FIRE STATION NO. 4

278 MCELROY ROAD
FAYETTEVILLE, GEORGIA

Prepared for
FAYETTE CO.
FIRE DEPT

COMMISSION NO:
1748.00

SHEET TITLE:
FLOOR PLAN

SHEET NO:
T001

NOT ISSUED FOR CONSTRUCTION

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Design No. V421
BXUV.V421
Fire Resistance Ratings - ANSI/UL 263

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Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

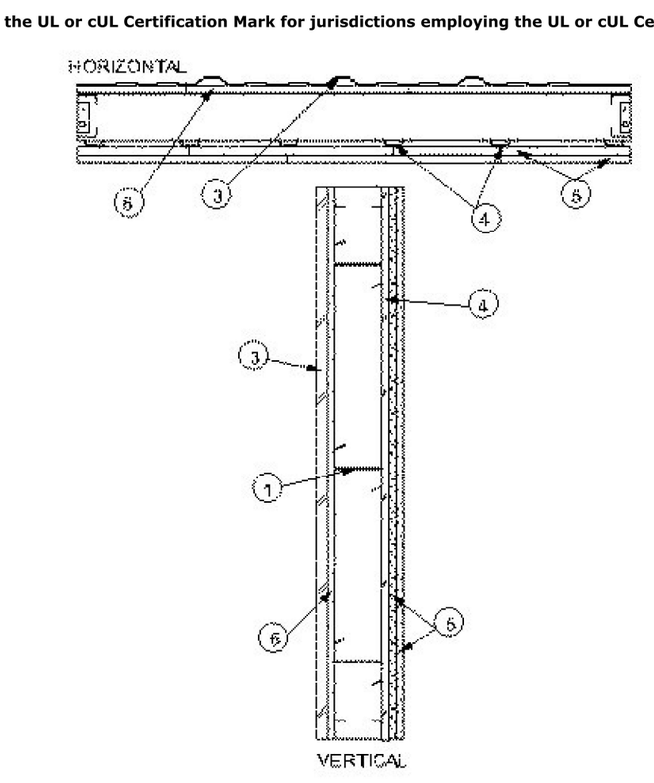
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. V421

October 11, 2017

Nonbearing Wall Ratings — 1 & 2 Hr

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Girts —** "Z" or "C" shaped girts, 0.056 to 0.120 in. thick steel, 6 to 12 in. deep, with 2 to 4 in. wide flanges. Girts placed horizontally (with flanges up or down) and spaced max 48 in. OC. Girts are secured to columns with girt clips, Item 2, or bolted to the column through the girt flange.

2. **Girt Clips —** (not shown) — Steel secured to column by welds or bolts.

3. **Steel Wall Panels —** Min No. 26 MSG, min 16 in. wide coated steel panels. Panel joints offset 6 in. from gypsum sheathing joints. If one layer of exterior wallboard is used, panels are fastened to the horizontal girts with 1-1/2 in. (min) long No. 12-14 self-drilling screws 12 in. OC. If two layers of exterior wallboard are used, panels are fastened to the horizontal girts with 2 in. (min) long No. 12-14 self-drilling screws 12 in. OC. Vertical raised rib profiles of adjacent panels are overlapped approximately 3 in. and attached to each other with 7/8 in. long 1/4-14 (min) self-drilling screws (stitch screws) 24 in. OC (max) along the lap.

3A. **Steel Siding or Brick —** (Optional, not shown) For Fire Resistance Ratings from inside of wall only, steel siding or brick veneer meeting the requirements of local code agencies, may be installed over additional furring channels (not shown), Item 4, on exterior of wall in place of steel wall panels. Brick veneer attached to furring channels with corrugated metal wall ties attached to each furring channel with steel screws, not more than each sixth course of brick. When a minimum 3-3/4 in. thick brick veneer facing is used, the fire resistance rating applies from either side of the wall.

4. **Furring Channels —** Hat shaped, minimum 25 MSG galv steel, approximately 2-5/8 in wide, 7/8 in. deep, spaced 24 in. OC perpendicular to girts. Channels are secured to each girt with 3/8 in. (min) long self-drilling pan head sheet steel type screws. Two screws are used at each fastening location, one through each leg of the furring channel.

5. **Gypsum Board* — Any 1/2 in. thick UL Classified Gypsum Board that is eligible for use in Design No. X515. Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305.** See table under Item 6 for number of layers and thickness on interior face of wall. Any 5/8 in. or 1/2 in. thick gypsum board applied horizontally or vertically. First layer attached to furring channels, Item 4, using 1 in. long Type S bugle head gypsum board screws spaced 24 in. OC. vertically and horizontally. Second layer attached to furring channels using 1-5/8 in. long Type S bugle head gypsum board screws spaced 12 in. OC. vertically and 24 in. OC. horizontally. Third layer, when used, attached to furring channels using Type S bugle head gypsum board screws spaced 12 in. OC. vertically and 24 in. OC. horizontally, 1-7/8 in. long for 1/2 in. gypsum board and 2-1/4 in. long for 5/8 in. gypsum board. Fourth layer, when used, attached to steel strapping using 1 in. long (min) bugle head drywall screws spaced 8 in. OC. Steel strapping from flat stock, 1-1/2 in. wide, fabricated from 0.020 in. thick (25 gauge) galv steel. Steel strapping located vertically and attached to third layer of gypsum board at each vertical joint and intermediate stud using 2-5/8 in. Type S bugle head drywall screws 12 in. OC. The horizontal or vertical joints of the wallboard are offset 24 in. when 2 successive layers are applied in the same orientation.

ACADIA DRYWALL SUPPLIES LTD (View Classification) — CKNX.R25370

AMERICAN GYPSUM CO (View Classification) — CKNX.R14196

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classification) — CKNX.R19374

CERTAINTEED GYPSUM INC (View Classification) — CKNX.R3660

CGC INC (View Classification) — CKNX.R19751

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C (View Classification) — CKNX.R18482

GEORGIA-PACIFIC GYPSUM L L C (View Classification) — CKNX.R2717

LOADMASTER SYSTEMS INC (View Classification) — CKNX.R11809

NATIONAL GYPSUM CO (View Classification) — CKNX.R3501

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (View Classification) — CKNX.R7094

PANEL REY S A (View Classification) — CKNX.R21796

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (View Classification) — CKNX.R19262

THAI GYPSUM PRODUCTS PCL (View Classification) — CKNX.R27517

UNITED STATES GYPSUM CO (View Classification) — CKNX.R1319

USG BORAL DRYWALL SFZ LLC (View Classification) — CKNX.R38438

USG MEXICO S A DE C V (View Classification) — CKNX.R16089

5A. **Gypsum Board* —** (As an alternate to Item 5) - Fastened as described in Item 5. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only.

NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board

5B. **Gypsum Board* —** (As an alternate to Items 5 and 5A) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically only and secured as described in Item 5.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES

5C. **Wall and Partition Facings and Accessories* —** (As an alternate to Items 5 through 5C) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically only and secured as described in Item 5.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527

5D. **Gypsum Board* —** (As an alternate to 5/8 in. Type FSW in Item 5) - Nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Two layers of 5/16 in. for every single layer of 5/8 in. gypsum board described in Item 5. Horizontal joints on the same side need not be staggered. Inner layer of each double 5/16 in. layer attached with fasteners, as described in item 5, spaced 24 in. OC. Outer layer of each double 5/16 in. layer attached per Item 5.

NATIONAL GYPSUM CO — Type FSW

6. **Gypsum Board* —** See following table for number of layers on exterior face of wall. Any exterior grade 5/8 in thick gypsum wallboard or gypsum sheathing applied horizontally or vertically. First layer attached to girts, Item 1, using 1-1/4 in. long (min) self-drilling bugle-head sheet steel type gypsum board screws

spaced 8 in. OC. horizontally. Second layer, when used, attached to girts using 1-5/8 in. long (min) self-drilling bugle-head sheet steel type gypsum board screws spaced 8 in. OC horizontally. The horizontal or vertical joints of the gypsum board are offset 24 in. if 2 successive layers are applied in the same orientation.

Fire Resistance from Both Sides of Wall

Rating	Layers 5/8 In. Gypsum Board (Item 5) on Interior Face	Layers 5/8 In. Gypsum Board (Item 6) on Exterior Face
1	1	1
2	2	2
2	3	1

Fire Resistance from Inside of Wall Only

Rating	Layers 1/2 In. Gypsum Board (Item 5) on Interior Face	Layers 5/8 In. Gypsum Board (Item 6) on Exterior Face
1	3	0
Rating	**Layers 5/8 In. Gypsum Board (Item 5) on Interior Face**	**Layers 5/8 In. Gypsum Board (Item 6) on Exterior Face**
2	4	0

Any 1/2 in. thick UL Classified Gypsum Board that is eligible for use in Design No. X515. Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305. See **Gypsum Board** (CKNX) category for names of Classified companies.

7. **Column Protection —** (not shown) — Horizontal wall girts, Item 1, are attached to vertical structural steel columns. See Column Design Nos. X524 and X530 for protection of columns.

8. **Batts and Blankets* —** (optional, not shown) — Glass Fiber Batts placed in the cavities of exterior walls.

See Batts and Blankets* (BZJZ) — category for names of manufacturers.

8A. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 8) — (100% Borate Formulation) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft^3. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft^3, in accordance with the application instructions supplied with the product.

U S GREENFIBER L L C — INS735& INS745 for use with wet or dry application. INS765LD and INS770LD are to be used for dry application only.

8B. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 8) and Item 8A - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.

NU-WOOL CO INC — Cellulose Insulation

8C. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 8) - Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft^3.

INTERNATIONAL CELLULOSE CORP — Celbar-RL

9. **Joint Tape and Compound —** (not shown, optional) — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of face layer of gypsum board. Paper or glass fiber tape embedded in first layer of compound over all joints.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2017-10-11

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Design No. U906

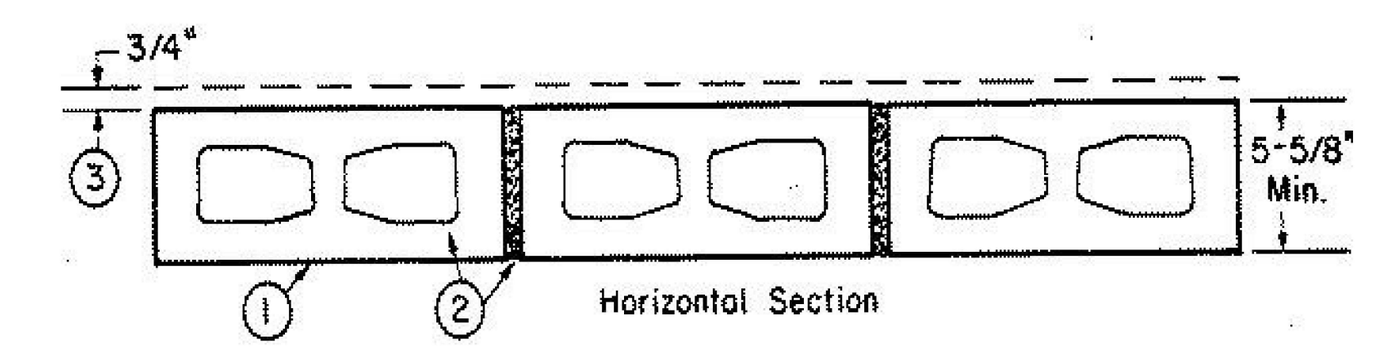
April 09, 2018

Bearing Wall Rating — 2 HR.

Nonbearing Wall Rating — 2 HR.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Concrete Blocks* —** Nominal 6 by 8 by 16 in, hollow or solid. Various designs. Classification (2 hr).
See **Concrete Blocks** category for list of eligible manufacturers.

ANCHOR CONCRETE PRODUCTS INC

GAGNE & SON CONCRETE BLOCK INC

GLENWOOD MASONRY PRODUCTS

Allowable compressive stress of 57% of max allowable compressive stress in accordance with the empirical design method.

OLDCASTLE APG SOUTH INC, DBA ADAMS PRODUCTS

WESTBROOK CONCRETE BLOCK CO INC

Allowable compressive stress of 75.6% of max allowable compressive stress in accordance with the empirical design method.

2. **Mortar —** Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

3. **Portland Cement Stucco or Gypsum Plaster —** Add 1/2 hr to Classification if used. Attached to concrete blocks (Item 1).

4. **Foamed Plastic* —** (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).
ATLAS ROOFING CORP — "EnergyShield Pro Wall Insulation", "EnergyShield Pro 2 Wall Insulation", EnergyShield CGF Pro and EnergyShield Ply Pro

CARLISLE COATINGS & WATERPROOFING INC — Type R2+ SHEATHE

FIRESTONE BUILDING PRODUCTS CO L L C — "Enverge™ CI Foil Exterior Wall Insulation" and "Enverge™ CI Glass Exterior Wall Insulation"

HUNTER PANELS — Types Xci-Class A, Xci 286

RMAX OPERATING L L C — "TSX-8500", "TSX-8510", "Thermasheath-XP", "ECOMAXci", "Thermasheath-3", "Durasheath-3"

THE DOW CHEMICAL CO — Types Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR ci Exterior Insulation, Thermax IH Insulation, Thermax Plus Liner Panel, Thermax Heavy Duty Plus (HDP) and TUFF-R™ ci Insulation

4A. **Building Units —** As an alternate to Item 5, min. 1-in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in.
RMAX OPERATING L L C — "Thermasheath-SI", "ECOBASEci", "ThermaBase-CI"

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2018-04-09

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- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
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FAYETTE CO.
FIRE STATION NO. 4

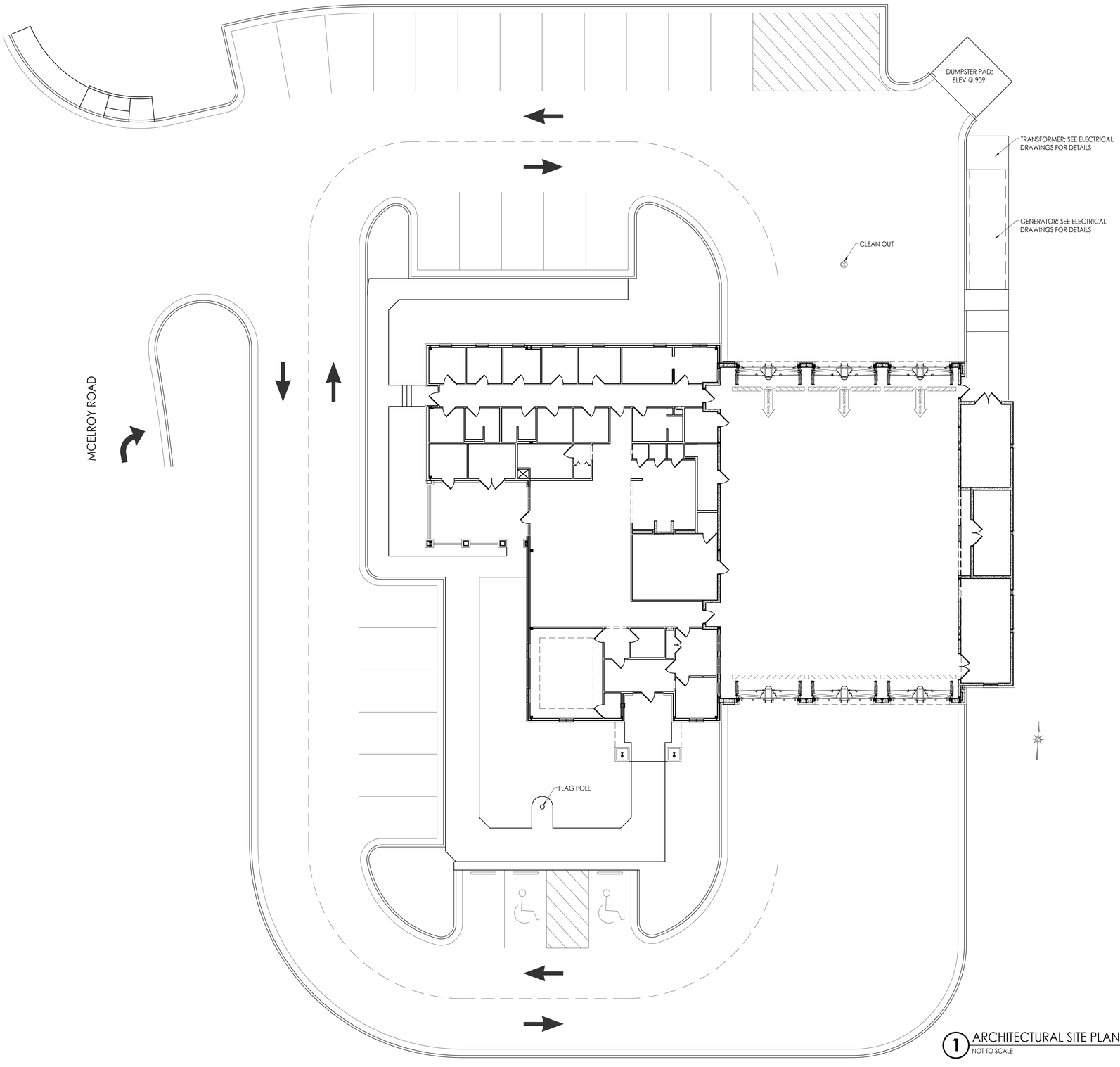
278 MCELROY ROAD
FAYETTEVILLE, GEORGIA

Prepared for
FAYETTE CO. FIRE DEPT

COMMISSION NO:
1748.00

SHEET TITLE:
UL RATINGS

SHEET NO:
UL101
NOT ISSUED FOR CONSTRUCTION



1 ARCHITECTURAL SITE PLAN
NOT TO SCALE

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08.22.2018	CLIENT REVIEW
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RICHARD A. OLDHAM
CERTIFICATE NO. 000000
REGISTERED ARCHITECT

FAYETTE CO.
FIRE STATION NO. 4

278 MCELROY ROAD
FAYETTEVILLE, GEORGIA

Prepared for
FAYETTE CO.
FIRE DEPT

COMMISSION NO:
1748.00

SHEET TITLE:
ARCHITECTURAL SITE PLAN

SHEET NO:
A001
NOT ISSUED FOR CONSTRUCTION

OCCUPANCY/CONSTRUCTION REQUIREMENTS

IBC 2012	RESIDENTIAL (R2)
NFPA 101 2012	LODGING/BORDING HOUSE
CONSTRUCTION TYPE (IBC)	
VA SPRINKLED	
FIRE RATINGS	
STRUCTURAL FRAME:	0 HOURS
BEARING WALLS - EXTERIOR:	0 HOURS
BEARING WALLS - INTERIOR:	0 HOURS
FLOOR CONSTRUCTION:	0 HOURS
ROOF CONSTRUCTION:	0 HOURS
OCCUPANCY SEPARATION (IBC 508.4)	
RESIDENTIAL/STORAGE (S2) SPRINKLED	
1 HOUR FIRE SEPARATION	

OCCUPANCY/CONSTRUCTION REQUIREMENTS

IBC 2012	STORAGE (S2)
NFPA 101 2012	STORAGE (ORDINARY HAZARD)
CONSTRUCTION TYPE (IBC)	
VA SPRINKLED	
FIRE RATINGS	
STRUCTURAL FRAME:	0 HOURS
BEARING WALLS - EXTERIOR:	0 HOURS
BEARING WALLS - INTERIOR:	0 HOURS
FLOOR CONSTRUCTION:	0 HOURS
ROOF CONSTRUCTION:	0 HOURS
OCCUPANCY SEPARATION (IBC 508.4)	
RESIDENTIAL/STORAGE (S2) SPRINKLED	
1 HOUR FIRE SEPARATION	

OCCUPANCY/CONSTRUCTION REQUIREMENTS

AREA ALLOWED (IBC 503)	
RESIDENTIAL (R2)	
PROVIDED:	4,696
ALLOWED:	12,000
HEIGHT ALLOWED (IBC 503) (504.2)	
RESIDENTIAL (R2)	
PROVIDED:	1 STORY/40 FEET
ALLOWED:	4 STORIES/60 FEET
OCCUPANT LOAD FACTOR	
NFPA 101 2012:	26.1.1.1
OCCUPANT LOAD -16	

OCCUPANCY/CONSTRUCTION REQUIREMENTS

AREA ALLOWED (IBC 503)	
STORAGE (S2)	
PROVIDED:	5,526
ALLOWED:	21,000
HEIGHT ALLOWED (IBC 503)	
STORAGE (S2)	
PROVIDED:	1 STORY/40 FEET
ALLOWED:	4 STORIES
OCCUPANT LOAD FACTOR	
NFPA 101 2012:	7.3.1.2
OCCUPANT LOAD -NA	

EGRESS REQUIREMENTS (NFPA)

LODGING/BOARDING HOUSES

EGRESS WIDTH FACTOR (7.3.3.1):

LEVEL COMPONENTS = 0.2" PER PERSON
EGRESS WIDTH REQUIRED: 3.2" (36" MIN)
EGRESS WIDTH PROVIDED:
36" MIN AT ALL DOORS/CORRIDORS

TRAVEL DISTANCE :
REQUIRED: 0'
PROVIDED: 79'

COMMON PATH OF TRAVEL:
REQUIRED: 0'
PROVIDED: 37'

DEAD-END CORRIDOR:
REQUIRED: 0'
PROVIDED: 0'

STORAGE

EGRESS WIDTH FACTOR (7.3.3.1):

LEVEL COMPONENTS = 0.2" PER PERSON
EGRESS WIDTH REQUIRED: 3.2" (36" MIN)
EGRESS WIDTH PROVIDED:
36" MIN AT ALL DOORS/CORRIDORS

TRAVEL DISTANCE :
REQUIRED: 400'
PROVIDED: 93'

COMMON PATH OF TRAVEL:
REQUIRED: 100'
PROVIDED: 93'

DEAD-END CORRIDOR:
REQUIRED: 100'
PROVIDED: 0'

EGRESS REQUIREMENTS (NFPA)

LODGING/BOARDING HOUSES

EXITS REQUIRED: 1 (26.1.3.2.1)
EXITS PROVIDED: 1

MIN EXIT SEPARATION DISTANCE:
REQUIRED: 0'
PROVIDED: 116'

PRIMARY MEANS OF ESCAPE MUST COMPLY WITH CHAPTER 24 (26.2.1.1.1)
MEANS OF ESCAPE (24.2.2.1.2)
REQUIRED: 1 PER SLEEPING ROOM
PROVIDED:1 PER SLEEPING ROOM

SEPARATION OF SLEEPING ROOMS (26.3.5.1) (8.4)
ACOUSTICAL CEILING TILE MEETS THE
REQUIREMENTS FOR A SMOKE PARTITION (A8.4.2.2)

STORAGE

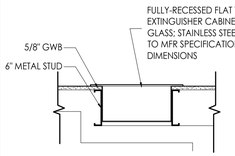
EXITS REQUIRED: 1 (42.2.4.1)
EXITS PROVIDED: 1

MIN EXIT SEPARATION DISTANCE:
REQUIRED: NA

LIFE SAFETY NOTES

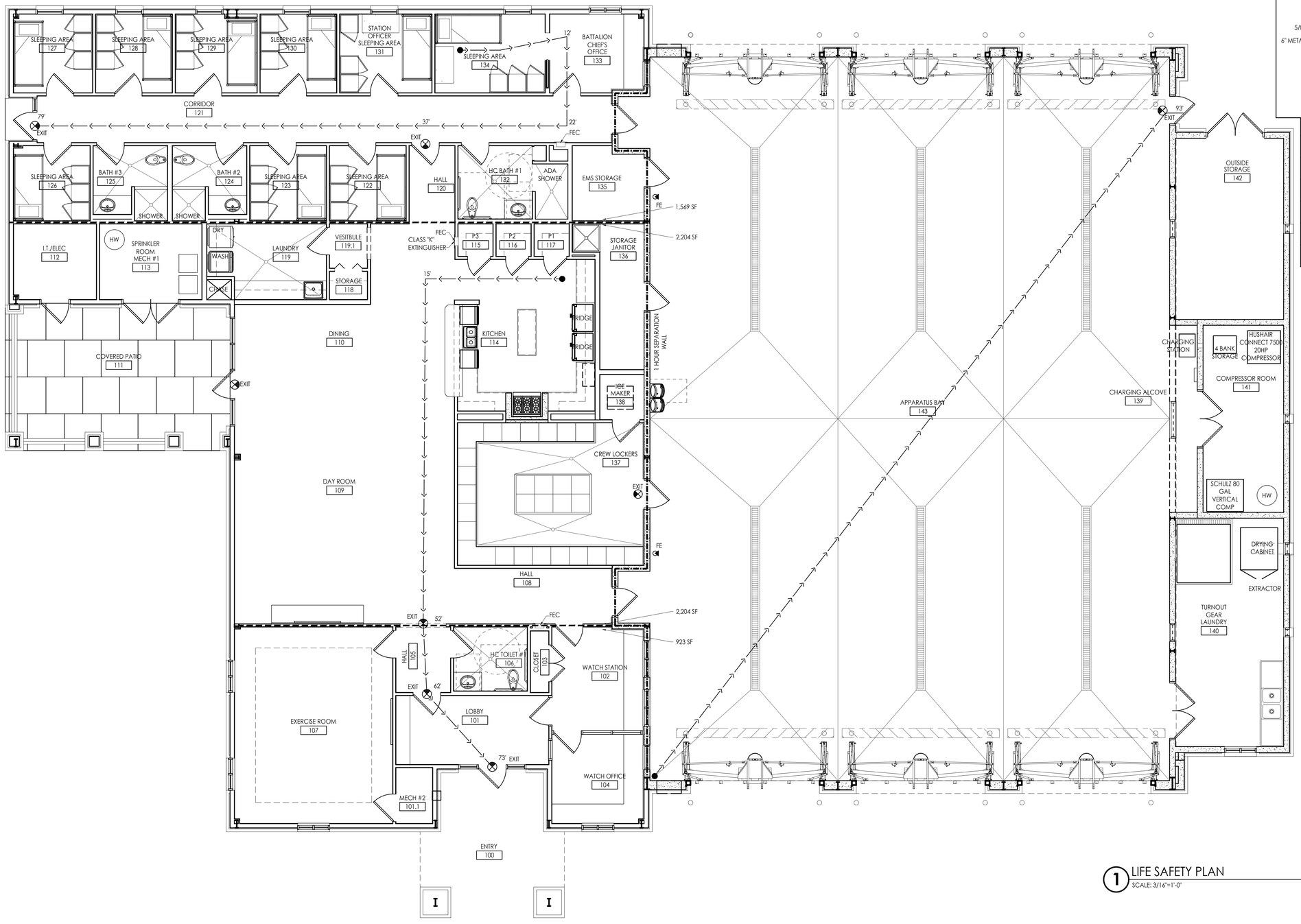
1. PROVIDE (1) FIRE EXTINGUISHER PER 3000 SF OF OCCUPIABLE SPACE OR MAXIMUM 75'-0" OF TRAVEL. REFER TO PLANS FOR LOCATIONS MARKED F.E.C. FINAL LOCATIONS TO BE VERIFIED BY LOCAL FIRE INSPECTOR.
2. REFER TO SPECIFICATIONS FOR DETAILED INFORMATION ON FIRE EXTINGUISHERS.
3. SEE MOUNTING HEIGHT STANDARDS FOR INSTALLATION HT.
4. EMERGENCY LIGHTING REQUIRED IN ALL RESTROOMS; SEE ELECTRICAL PLANS FOR LOCATIONS

FIRE EXTINGUISHER CABINET



LIFE SAFETY LEGEND

	EGRESS PATH
F.E.C.	FIRE EXTINGUSHER CABINET
	1 HR FIRE RATED WALLS
	DRAFTSTOP PER NFPA 8.6.11.1 (2)
	EMERGENCY EXIT LIGHT
	FIRE EXTINGUISHER; BRACKET MOUNT



1 LIFE SAFETY PLAN
SCALE: 3/16"=1'-0"

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FAYETTE CO. FIRE STATION NO. 4

278 MCELROY ROAD
FAYETTEVILLE, GEORGIA

Prepared for
FAYETTE CO. FIRE DEPT

COMMISSION NO:
1748.00

SHEET TITLE:
LIFE SAFETY PLAN

SHEET NO:
A100

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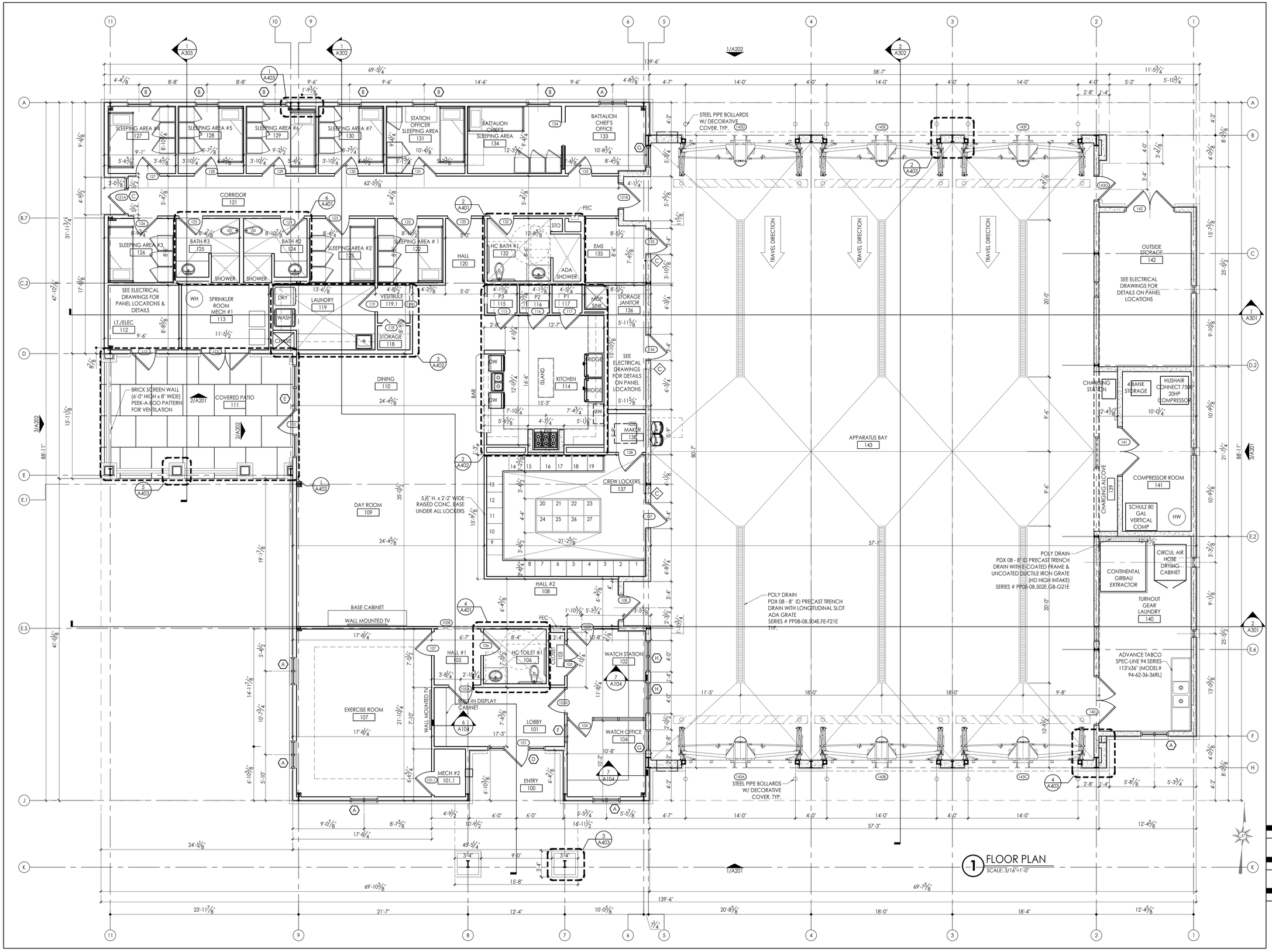

1 FLOOR PLAN
SCALE: 3/16"=1'-0"

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278 MCELROY ROAD
FAYETTEVILLE, GEORGIA

Prepared for
FAYETTE CO. FIRE DEPT

COMMISSION NO:
1748.00

SHEET TITLE:
FLOOR PLAN

SHEET NO:
A101

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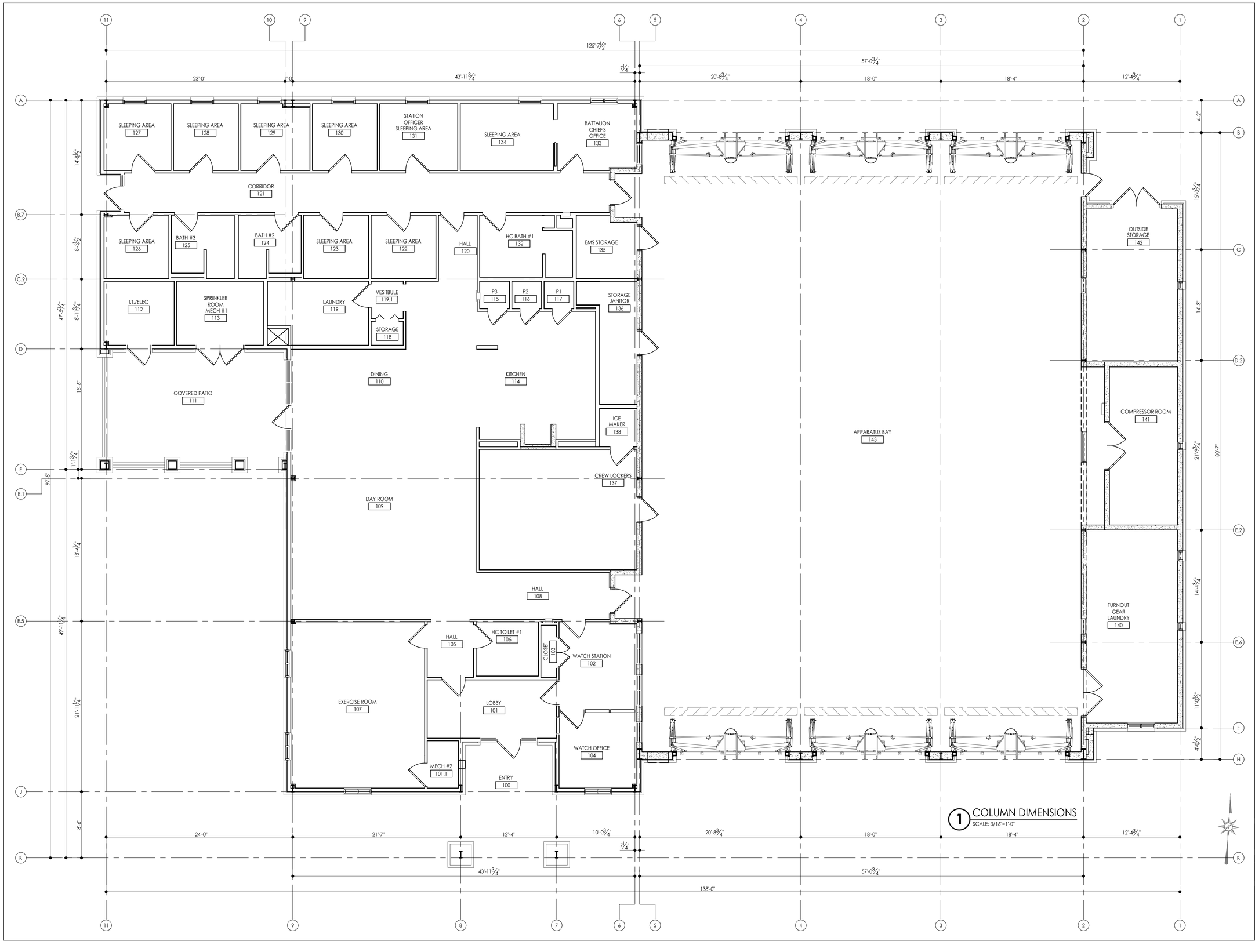

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FAYETTE CO. FIRE STATION NO. 4

278 MCELROY ROAD
FAYETTEVILLE, GEORGIA

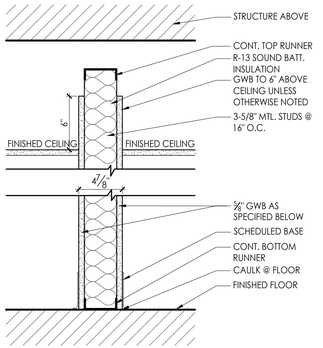
Prepared for
FAYETTE CO. FIRE DEPT

COMMISSION NO:
1748.00

SHEET TITLE:
COLUMN DIMENSIONS

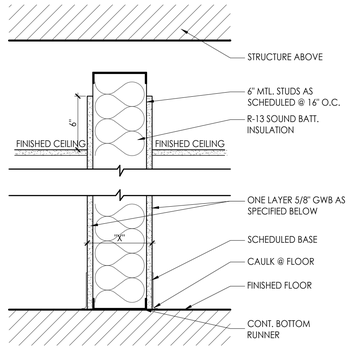
SHEET NO:
A102

NOT ISSUED FOR CONSTRUCTION



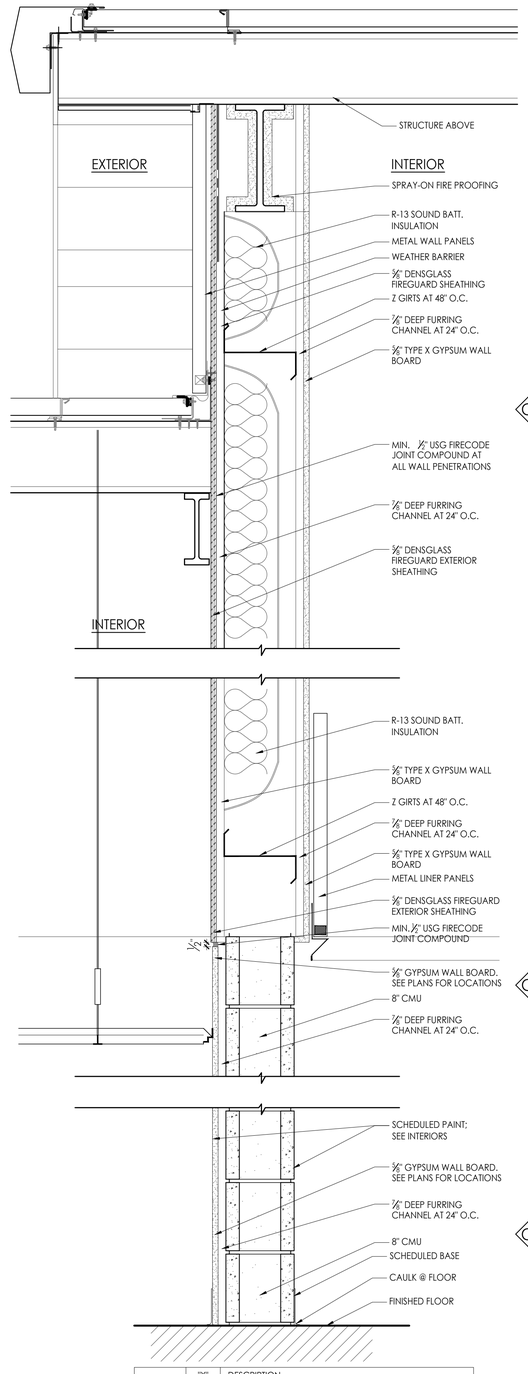
	"X"	TYPICAL WALL DESCRIPTION
A	4-7/8"	ONE LAYER 5/8" GWB ON BOTH SIDES OF 3-5/8" MTL. STUDS W/ SOUND BATT INSULATION (IMPACT RESISTANT GWB APPLIED ON THE INTERIOR OF ALL SLEEPING AREAS)

1 WALL PARTITIONS
SCALE: 1 1/2"=1'-0"



	"X"	DESCRIPTION
B	7-1/4"	ONE LAYER 5/8" GWB ON EACH SIDE OF 6" MTL. STUD @ 16" O.C. W/ R-13 SOUND BATT. INSULATION

2 WALL PARTITIONS
SCALE: 1 1/2"=1'-0"



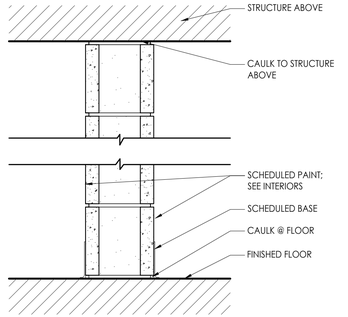
	"X"	DESCRIPTION
C1 "TOP"	11"	1 HOUR FIRE RATED ASSEMBLY UL263 V421 ONE LAYER 5/8" GWB ON INTERIOR ONE LAYER 5/8" DENSGLASS FIREGUARD SHEATHING ON EXTERIOR
C2 "BOTTOM"	7-5/8" OR 9-1/8"	1 HOUR FIRE RATED ASSEMBLY UL263 U906 8" CMU WALL WITH ONE LAYER 5/8" GWB ON DAYROOM SIDE OF WALL AS NOTED ON PLANS

C1 1 HOUR FIRE RATED ASSEMBLY
UL263 V421/U305

C1 1 HOUR FIRE RATED ASSEMBLY
UL263 V421/U305

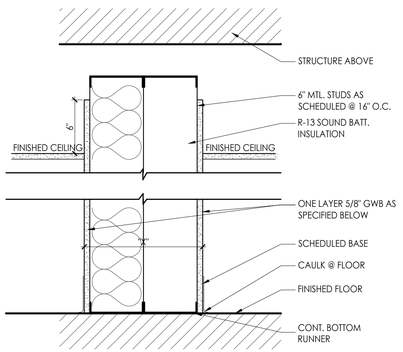
C2 1 HOUR FIRE RATED ASSEMBLY
UL263 U906

3 WALL TYPE C
SCALE: 1 1/2"=1'-0"



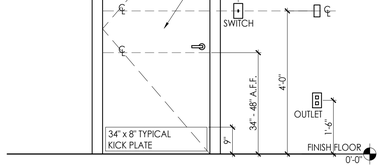
	"X"	DESCRIPTION
D	7-5/8"	CONCRETE MASONRY BLOCK WALL; PAINTED

4 WALL PARTITIONS
SCALE: 1 1/2"=1'-0"

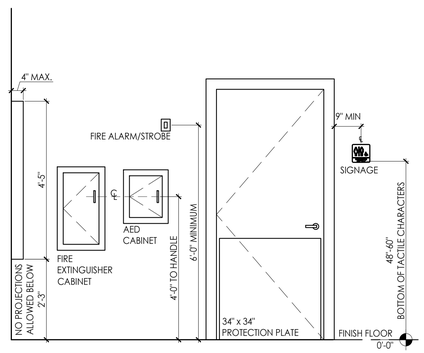


	"X"	DESCRIPTION
E	1'-1-1/4"	ONE LAYER 5/8" GWB ON OUTSIDE FACE OF 6" MTL. STUD @ 16" O.C. W/ R-13 SOUND BATT. INSULATION

5 WALL PARTITIONS
SCALE: 1 1/2"=1'-0"



6 MOUNTING HEIGHT STANDARDS
NOT TO SCALE



7 MOUNTING HEIGHT STANDARDS
NOT TO SCALE

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DATE	COMMENTS
08.16.2018	50% REVIEW
08.22.2018	CLIENT REVIEW
09.27.18	FOR BID

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CERTIFICATE NO. 000000
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FAYETTE CO. FIRE STATION NO. 4

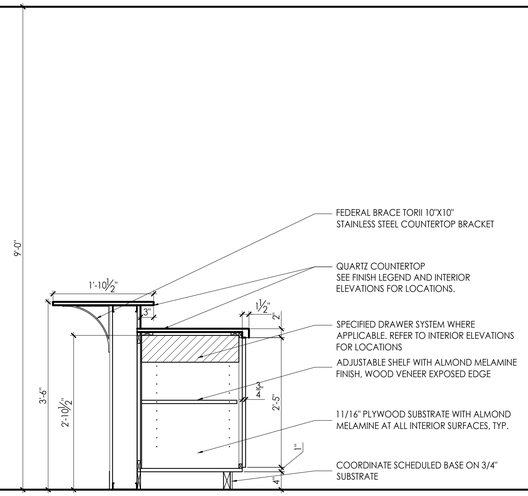
278 MCELROY ROAD
FAYETTEVILLE, GEORGIA

Prepared for
FAYETTE CO. FIRE DEPT

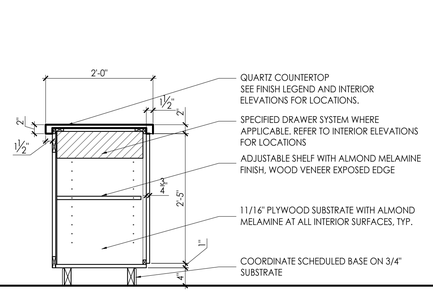
COMMISSION NO:
1748.00

SHEET TITLE:
WALL PARTITIONS & PROJECT STANDARDS

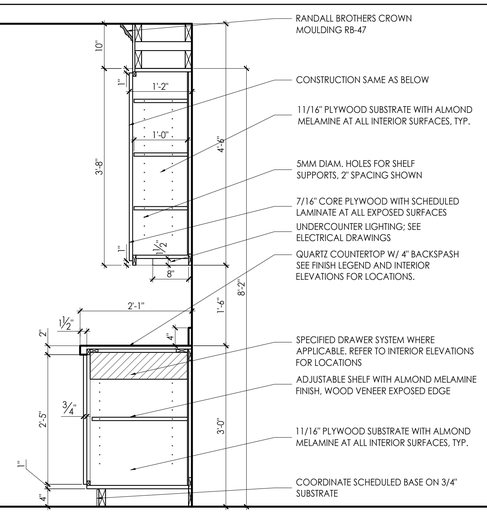
SHEET NO:
A103
NOT ISSUED FOR CONSTRUCTION



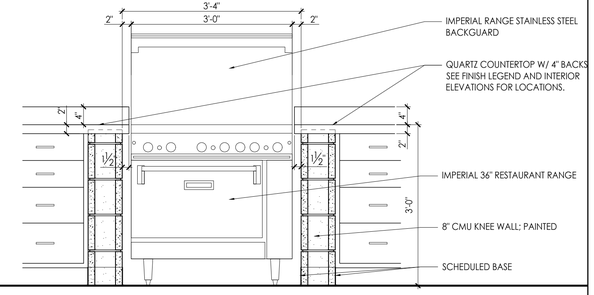
1 KITCHEN MILLWORK DETAILS
SCALE: 3/4"=1'-0"



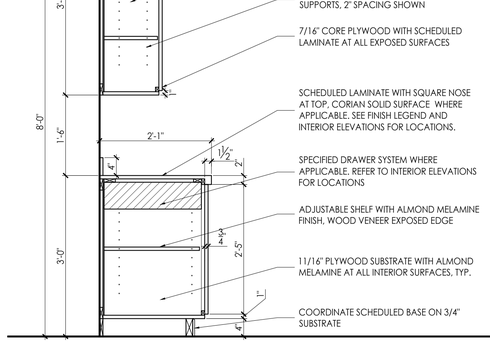
2 KITCHEN MILLWORK DETAILS
SCALE: 3/4"=1'-0"



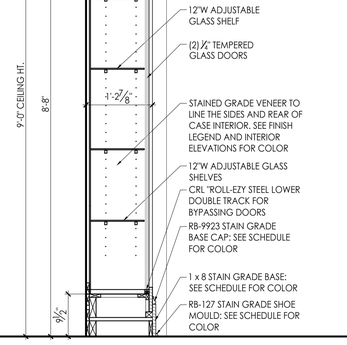
3 KITCHEN MILLWORK DETAILS
SCALE: 3/4"=1'-0"



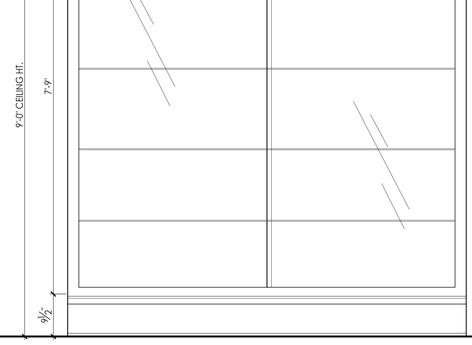
4 RANGE DETAILS
SCALE: 3/4"=1'-0"

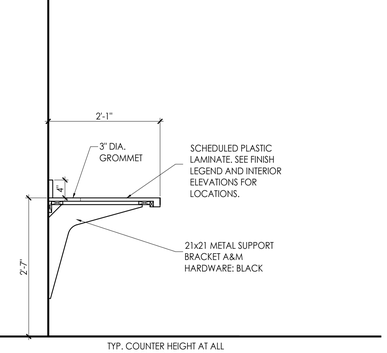


5 LAUNDRY MILLWORK
SCALE: 3/4"=1'-0"

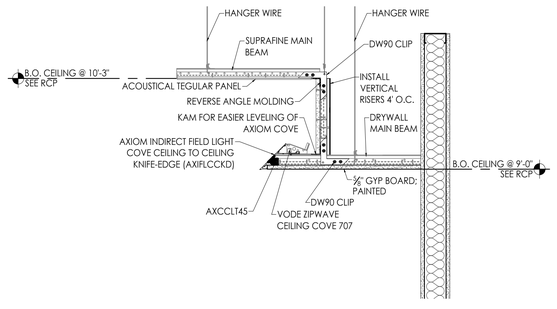


6 LOBBY DISPLAY CASE
SCALE: 3/4"=1'-0"

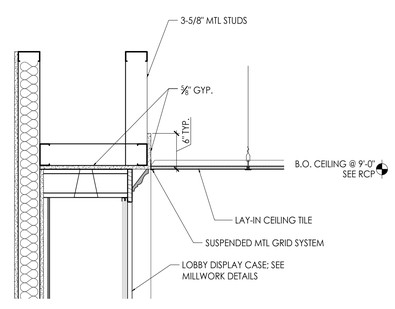




7 WALL HUNG DESK DETAILS
SCALE: 3/4"=1'-0"



9 CEILING DETAIL
SCALE: 1"=1'-0"



10 CEILING DETAIL
SCALE: 1"=1'-0"

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08.22.2018	CLIENT REVIEW
09.27.18	FOR BID

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FAYETTE CO.
FIRE STATION NO. 4

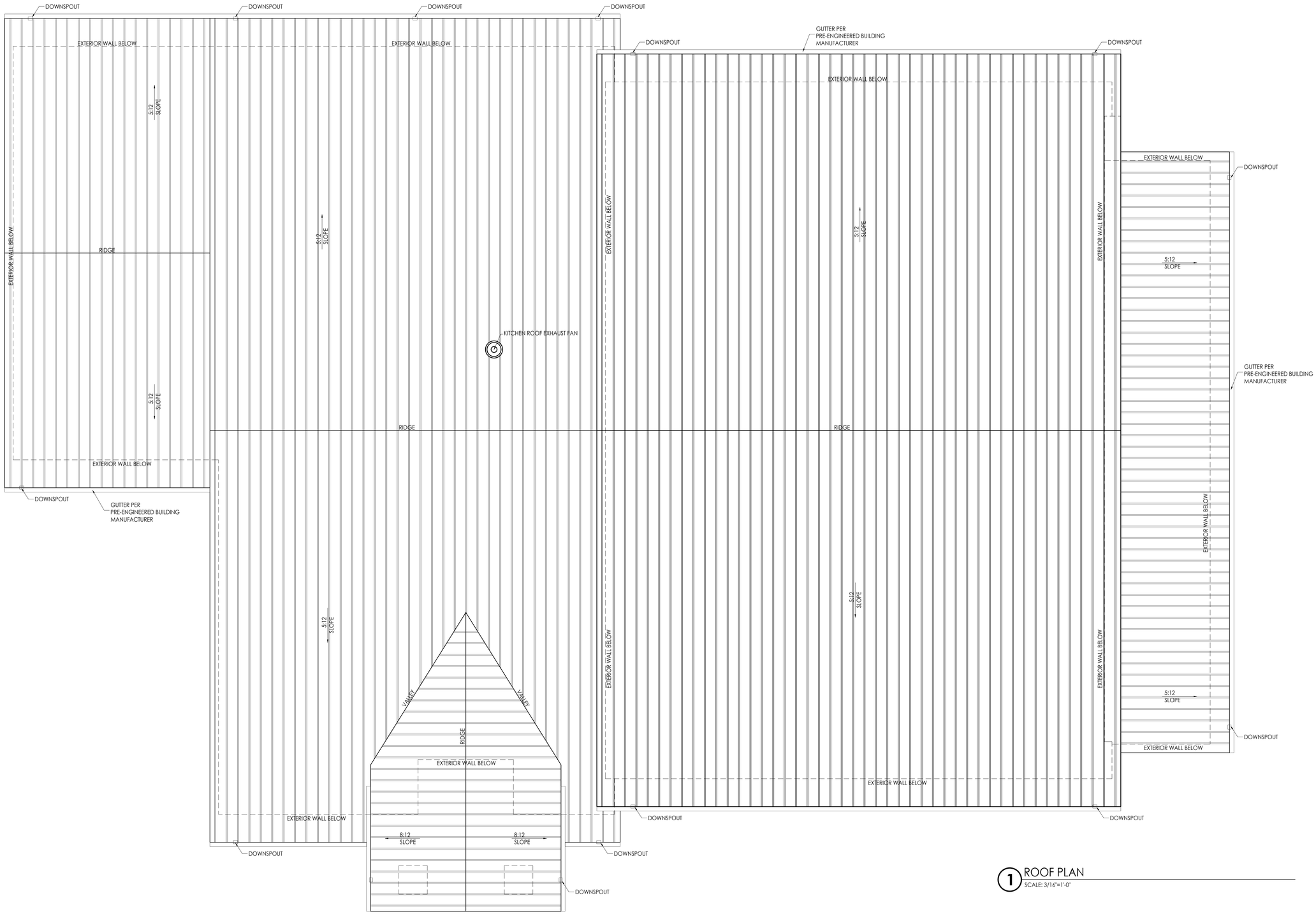
278 MCELROY ROAD
FAYETTEVILLE, GEORGIA

Prepared for
FAYETTE CO.
FIRE DEPT

COMMISSION NO:
1748.00

SHEET TITLE:
MILLWORK & CEILING DETAILS

SHEET NO:
A104
NOT ISSUED FOR CONSTRUCTION



1 ROOF PLAN
SCALE: 3/16"=1'-0"

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COMMISSION NO:
1748.00

SHEET TITLE:
ROOF PLAN

SHEET NO:
A105

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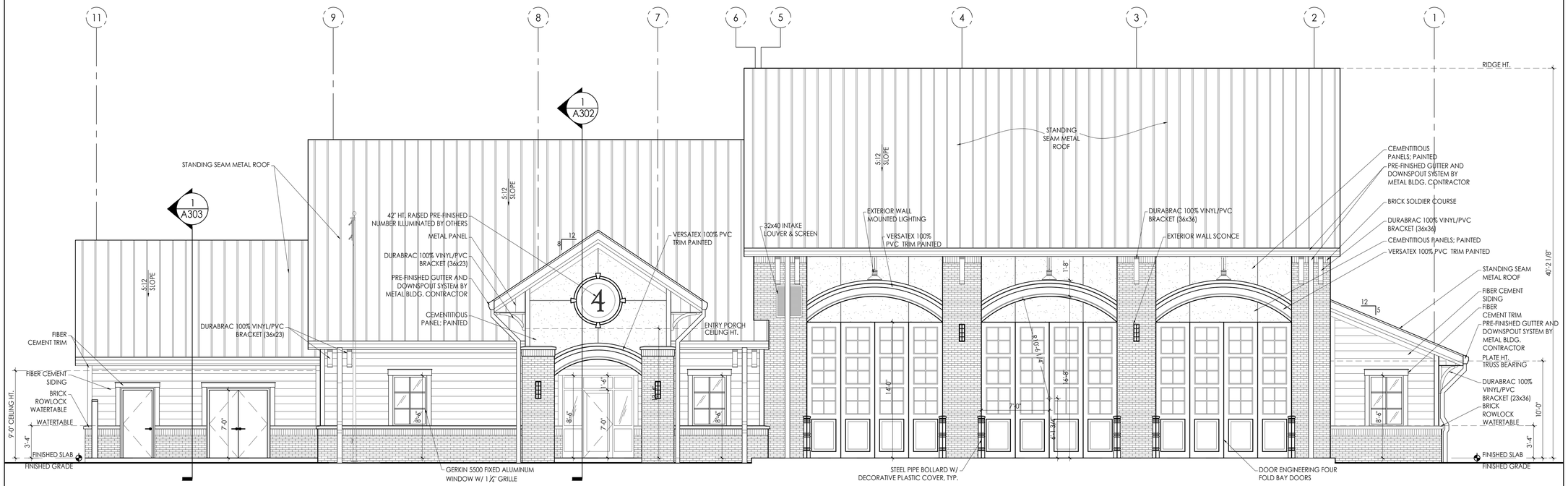
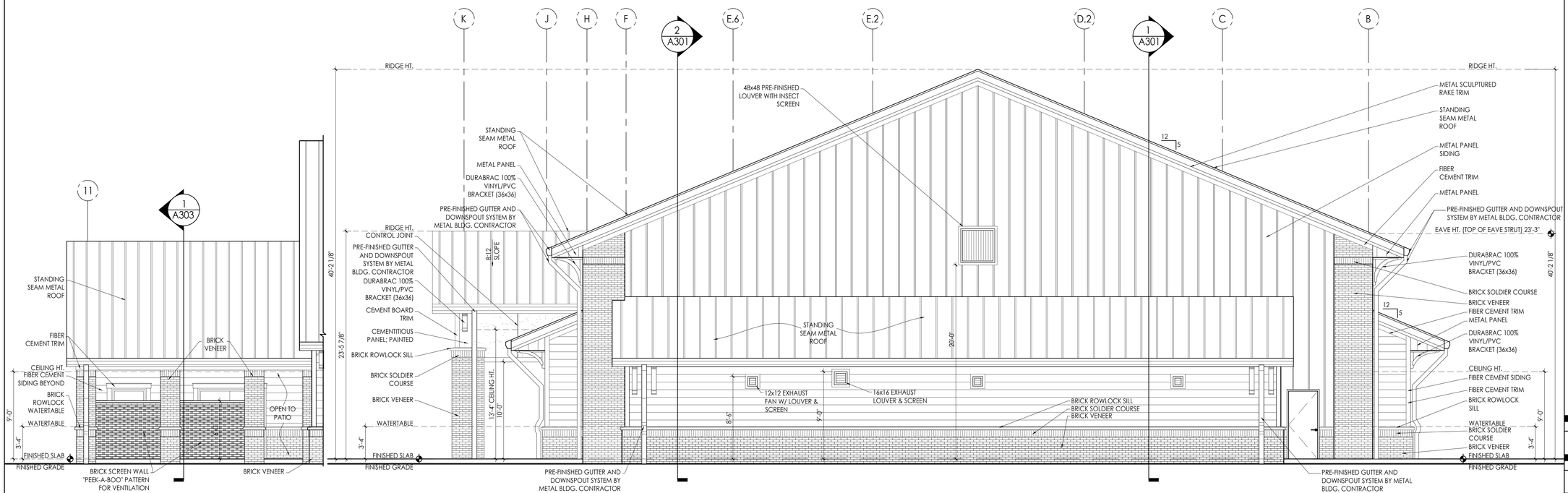


1 FRONT ELEVATION
SCALE: 3/16"=1'-0"



2 PATIO FRONT ELEVATION
SCALE: 3/16"=1'-0"

3 RIGHT SIDE ELEVATION
SCALE: 3/16"=1'-0"

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COMMISSION NO:
1748.00

SHEET TITLE:
EXTERIOR ELEVATIONS

SHEET NO:
A201

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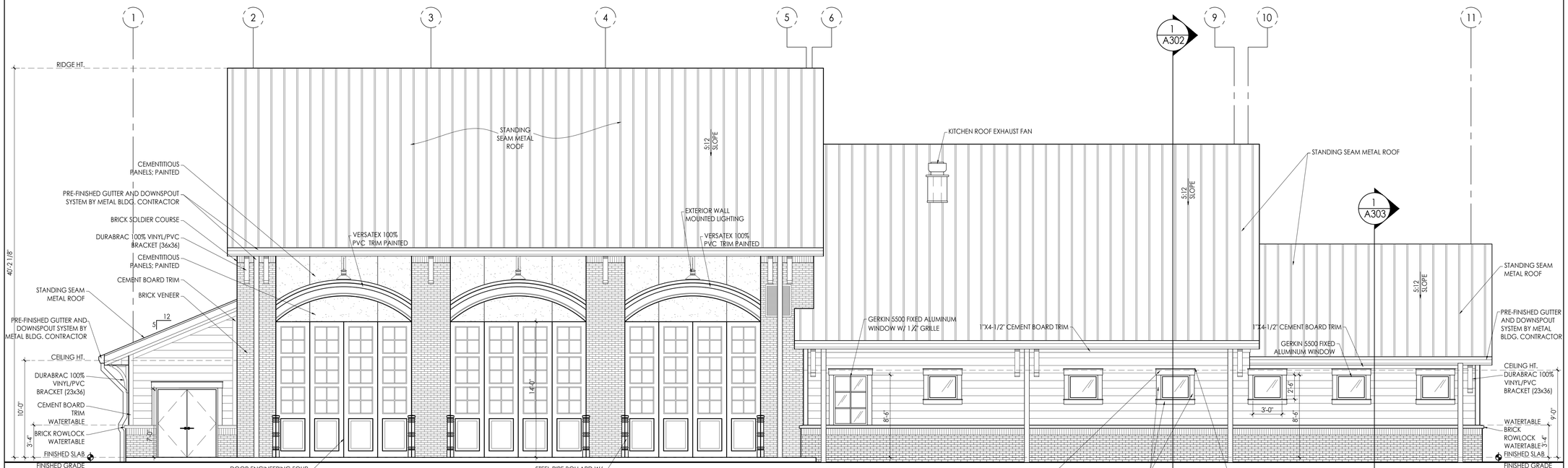
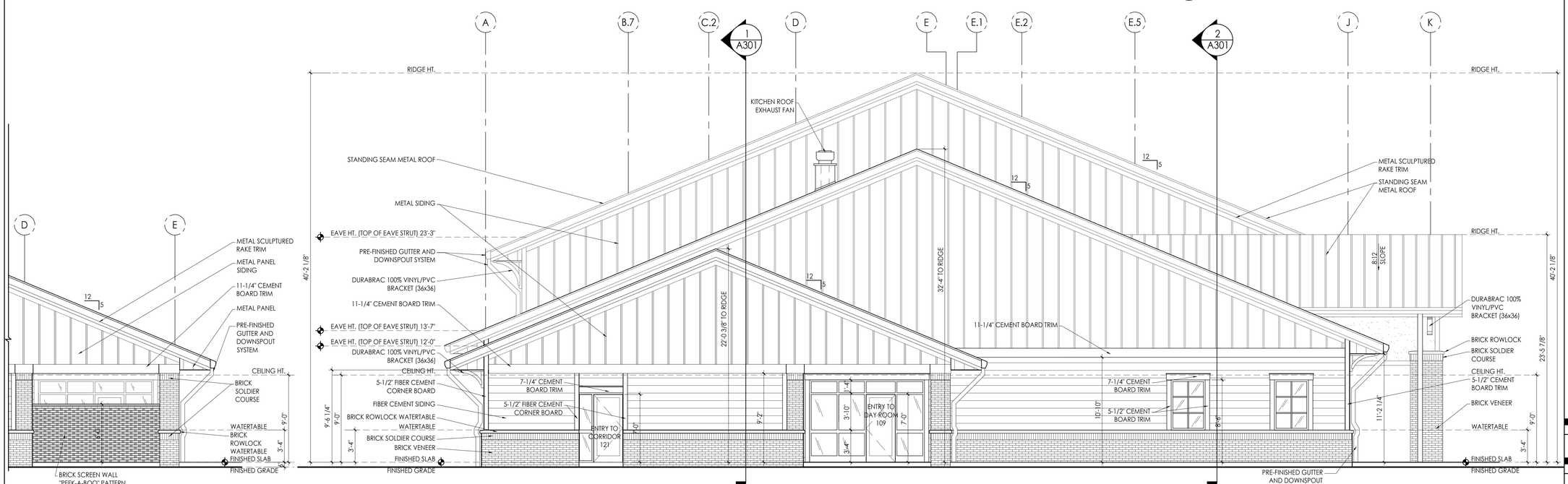


1 REAR ELEVATION
SCALE: 3/16"=1'-0"



2 LEFT SIDE PATIO ELEVATION
SCALE: 3/16"=1'-0"

3 LEFT SIDE ELEVATION
SCALE: 3/16"=1'-0"

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FAYETTEVILLE, GEORGIA

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COMMISSION NO:
1748.00

SHEET TITLE:
EXTERIOR ELEVATIONS

SHEET NO:
A202

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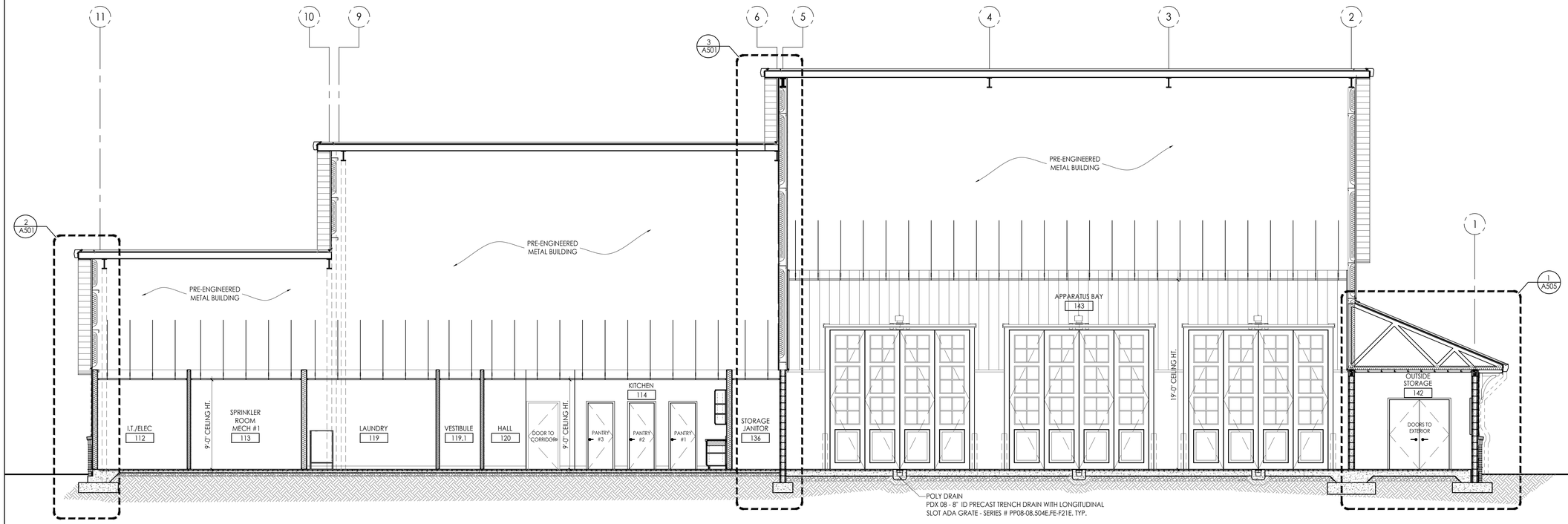
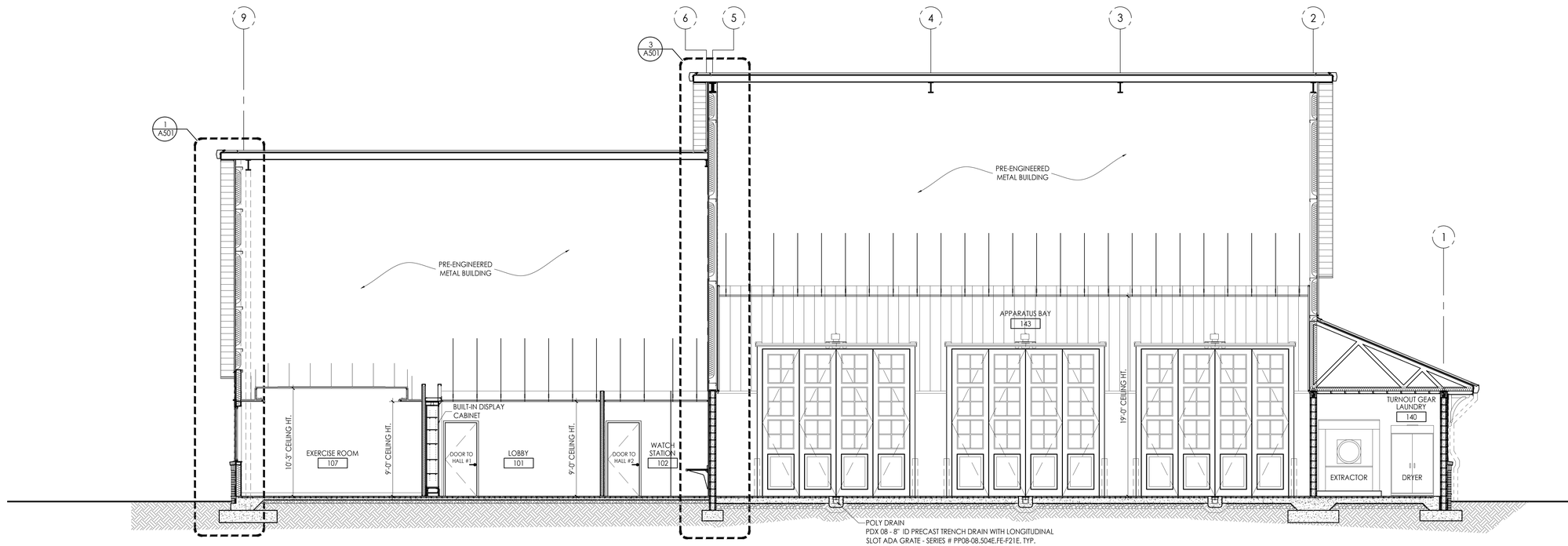


1 BUILDING SECTION
SCALE: 3/16"=1'-0"



2 BUILDING SECTION
SCALE: 3/16"=1'-0"

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COMMISSION NO:
1748.00

SHEET TITLE:
BUILDING SECTIONS

SHEET NO:
A301

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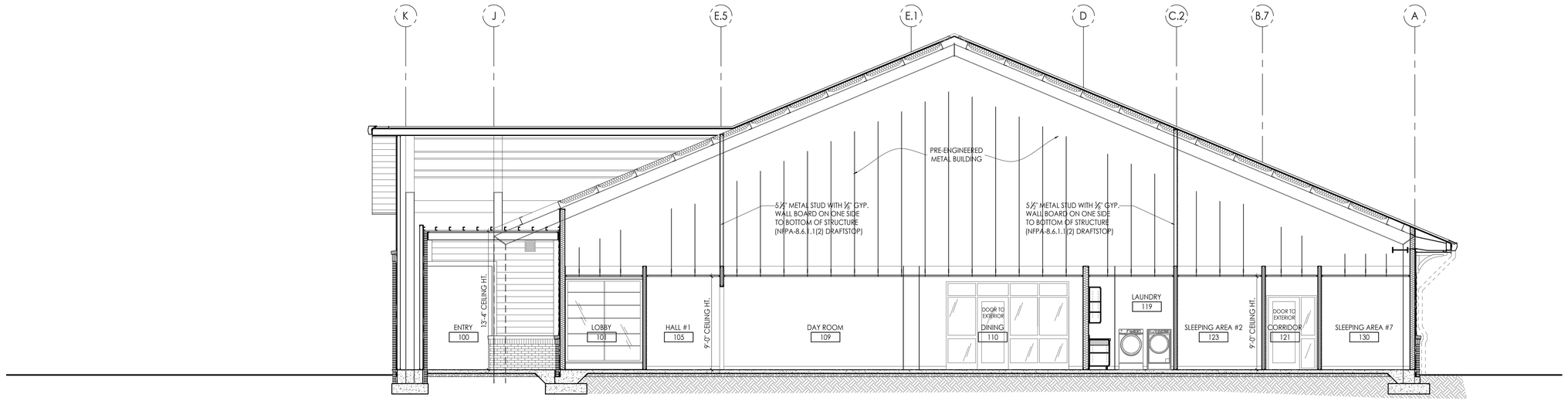
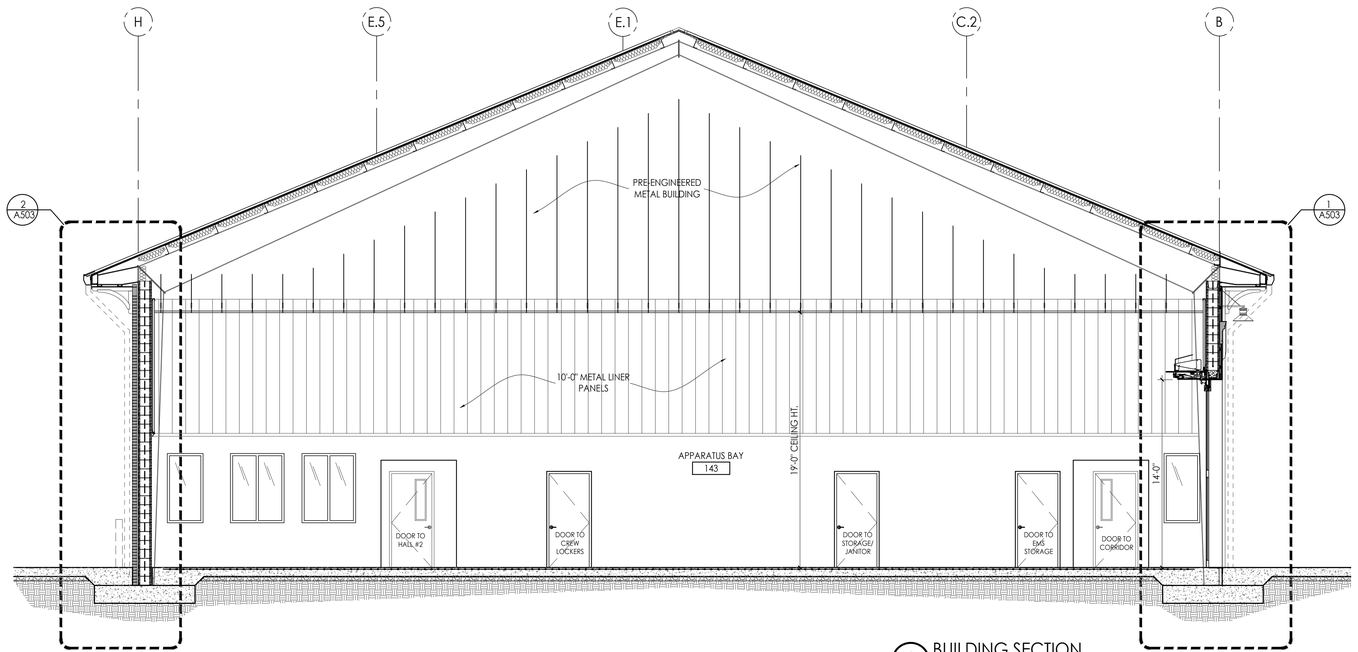


1 BUILDING SECTION
SCALE: 3/16"=1'-0"



2 BUILDING SECTION
SCALE: 3/16"=1'-0"

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FAYETTE CO. FIRE DEPT

COMMISSION NO:
1748.00

SHEET TITLE:
BUILDING SECTIONS

SHEET NO:
A302

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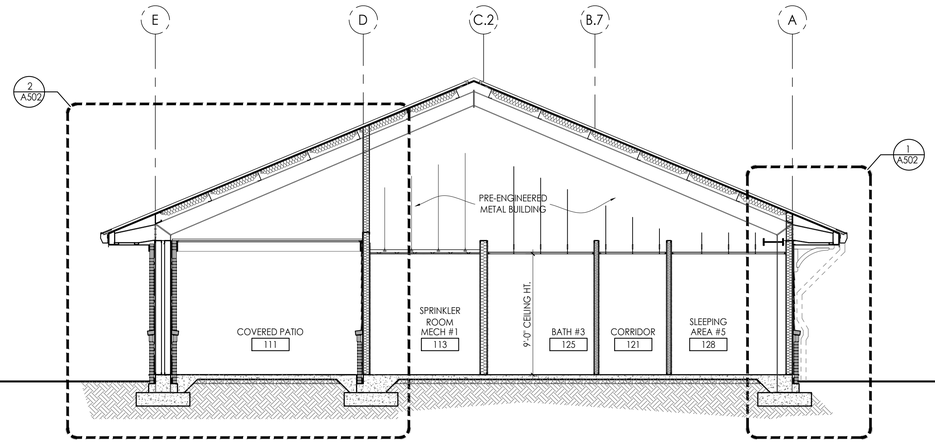

1 BUILDING SECTION
SCALE: 3/16"=1'-0"

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FIRE STATION NO. 4

278 MCELROY ROAD
FAYETTEVILLE, GEORGIA

Prepared for
FAYETTE CO.
FIRE DEPT

COMMISSION NO:
1748.00

SHEET TITLE:
BUILDING SECTIONS

SHEET NO:
A303

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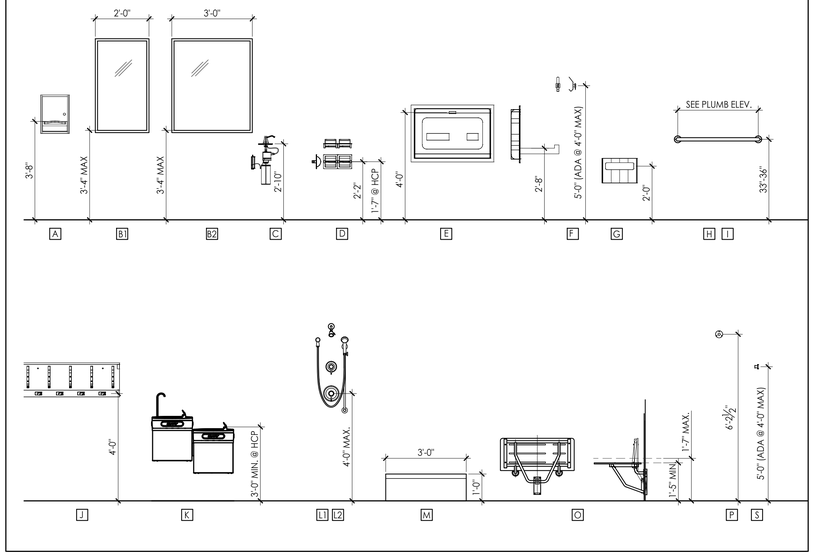
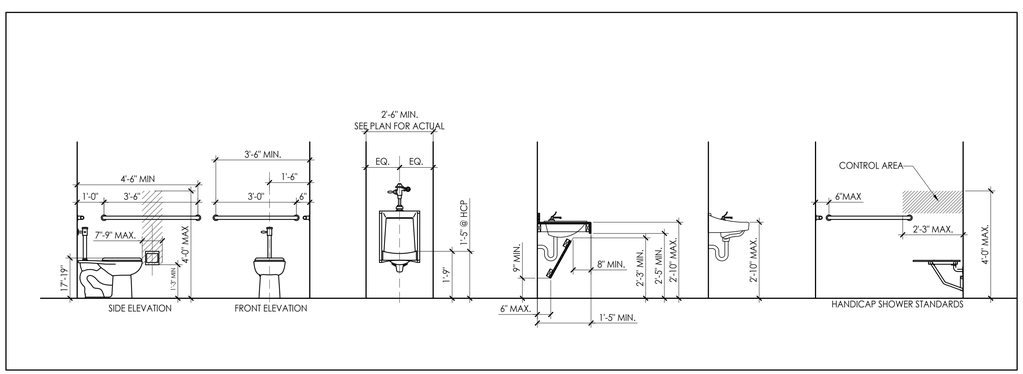
PLUMBING FIXTURE / ACCESSORY LIST

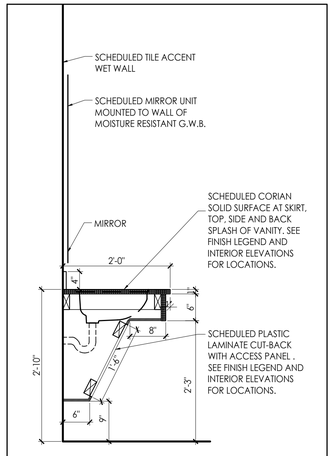
	MANUFACTURER	MODEL #	QT	DESCRIPTION
A	AMERICAN SPECIALTIES	04697	4	RECESSED PAPER TOWEL DISPENSER & WASTE RECEPTACLE; SS SATIN FINISH
B1	AMERICAN SPECIALTIES	20650-B2436	2	TEMPERED GLASS STAINLESS STEEL MIRROR (24" WIDTH X 36" HEIGHT); SS SATIN FINISH
B2	AMERICAN SPECIALTIES	0620-3636 (B)	2	TEMPERED GLASS STAINLESS STEEL MIRROR (36" WIDTH X 36" HEIGHT); SS SATIN FINISH
C	AMERICAN SPECIALTIES	0334-S	4	SURFACE MOUNTED SOAP DISPENSER; SS SATIN FINISH
D	AMERICAN SPECIALTIES	74022-S	4	RECESSED DOUBLE TOILET TISSUE DISPENSER; SS SATIN FINISH
E	AMERICAN SPECIALTIES	9013	1	STAINLESS STEEL RECESSED BABY CHANGING STATION; SATIN FINISH
F	AMERICAN SPECIALTIES	7382-8	4	HAT & COAT HOOK - SURFACE MOUNT; SS SATIN FINISH
G	AMERICAN SPECIALTIES	20477-SM ROVAL	1	SURFACE MOUNTED SEAT COVER DISPENSER; SS SATIN FINISH
H	AMERICAN SPECIALTIES	3801-36	2	36" GRAB BAR W/ CONCEALED FLANGE COVERS; SS SATIN FINISH
I	AMERICAN SPECIALTIES	3801-42	2	42" GRAB BAR W/ CONCEALED FLANGE COVERS; SS SATIN FINISH
J	AMERICAN SPECIALTIES	1308-4	1	44" SHELF W/ UTILITY HOOKS AND MOP STRIP; SS SATIN FINISH
K	ELKAY	LZSTL8SFC	1	ELKAY VERSITILE COOLER WALL MOUNT BI-LEVEL ADA - LEFT HIGH; STAINLESS; GLASS FILLER
L1	MOEN	T8375EP15CBN+8371HD	2	SHOWER SYSTEM; BRUSHED NICKEL FINISH
L2	MOEN	T8342	1	ADA SHOWER SYSTEM; BRUSHED NICKEL FINISH
M	STERN WILLIAMS	SB-501	1	FLOOR MOUNT TERRAZZO SERVICEPTORS W/ ONE PIECE SS CAP, 36x36 MOP SINK
N	AMERICAN STANDARD	#8350.235	1	EXPOSED YOKE WALL MOUNT UTILITY FAUCET
O	AMERICAN SPECIALTIES	8208-L	1	FOLDING SS SHOWER SEAT - LEFT HAND ADA
P	AMERICAN SPECIALTIES	1214	3	1" DIA STAINLESS STEEL SHOWER CURTAIN ROD; SS SATIN FINISH
Q	ELKAY	DLR291810	1	STAINLESS STEEL DOUBLE SINK; KITCHEN; 29x18x10; 18GA
R	KHOLER	TOCCATA/K-3348-3	1	TOP MOUNT STAINLESS STEEL SINGLE SINK; LAUNDRY; 27x25x22; 18GA
S	AMERICAN SPECIALTIES	7340	3	ROBE HOOK
T				
U				
V				



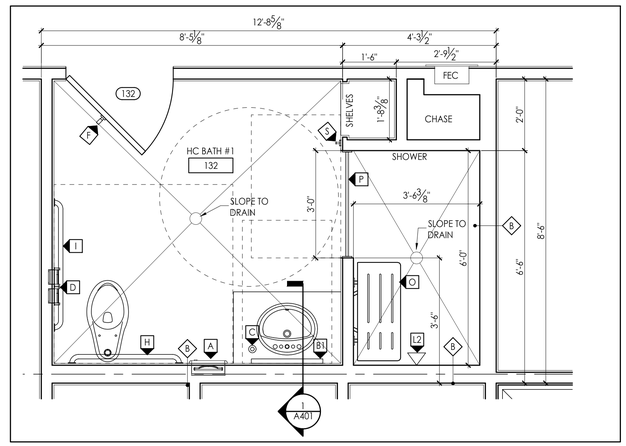
3 PLUMBING FIXTURES & ACCESSORIES
NOT TO SCALE



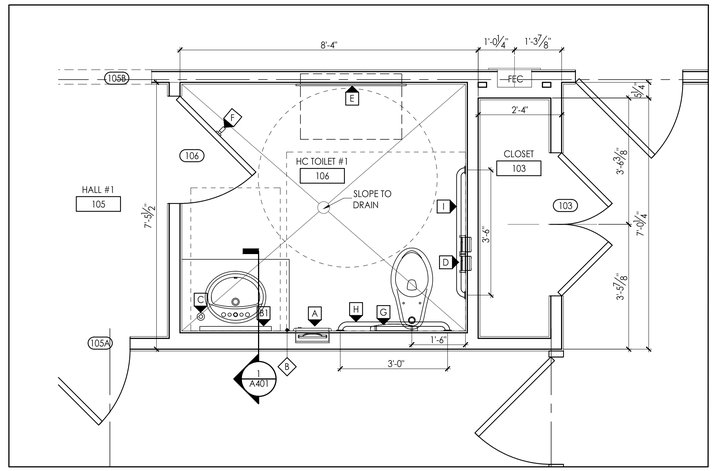
5 PLUMBING ADA MOUNTING HEIGHTS
NOT TO SCALE



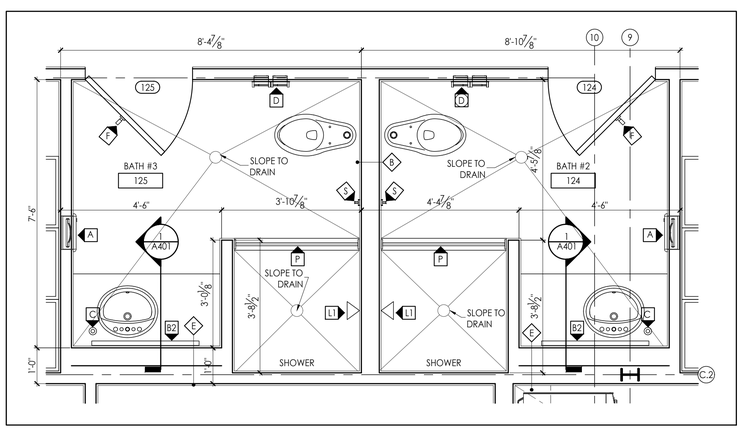
1 TYP. ADA VANITY SECTION
SCALE: 3/16"=1'-0"



2 RESTROOM PLAN DETAIL
SCALE: 1/2"=1'-0"



4 RESTROOM PLAN DETAIL
SCALE: 1/2"=1'-0"



6 RESTROOM PLAN DETAIL
SCALE: 1/2"=1'-0"

FLOOR PLAN NOTES

1. DIMENSIONS SHOWN ARE TO FACE OF STUDS AND CENTERLINE OF COLUMNS. NOTED CLEAR DIMENSIONS ARE TO FINISHED FACE OF WALLS.

2. DOORS NOT LOCATED BY DIMENSION ON PLANS SHALL BE 4" FROM FACE OF ADJOINING PARTITION TO HINGE EDGE OF DOOR OPENING. VERIFY DOORS WILL HAVE 18" CLEAR ON THE PULL SIDE, AND 12" CLEAR ON THE PUSH SIDE PER ADA REQUIREMENTS. NOTIFY ARCHITECT IF REQUIRED CLEARANCES ARE NOT AVAILABLE.

3. CONTRACTOR TO LAYOUT ALL WALL LOCATIONS AND OPENINGS TO DISCOVER ANY CONFLICTS FOR RESOLUTION WITH THE ARCHITECT PRIOR TO STARTING WALL CONSTRUCTION. FIELD VERIFY ALL DIMENSIONS.

4. PROVIDE ALL NECESSARY WOOD BLOCKING IN FRAMING LOCATIONS AT ALL WALL HUNG FURNITURE AND EQUIPMENT TO INCLUDE, BUT NOT LIMITED TO, WALL MOUNTED DOOR STOPS, GRAB BARS, HANDRAILS, CASEWORK, MARKERBOARDS, AND ALL RESTROOM ACCESSORIES.

5. PROVIDE 4" CONCRETE PAD ON COMPACTED FILL FOR ALL OUTDOOR MECHANICAL UNITS. PAD SHALL EXTEND 6" MIN. BEYOND EACH EDGE OF THE OVERALL EQUIPMENT LAYOUT.

6. SLOPE FLOOR AT THE ROOMS INDICATED WITH FLOOR DRAINS. COORDINATE GROUT JOINTS WITH FLOOR DRAIN LOCATIONS.

LEGEND

——·——·——	1 HR FIRE RATED WALLS

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DATE	COMMENTS
08.16.2018	50% REVIEW
08.22.2018	CLIENT REVIEW
09.27.18	FOR BID

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KIPPARD A. OLDHAM
CERTIFICATE NO. 000000
REGISTERED ARCHITECT

FAYETTE CO. FIRE STATION NO. 4

278 MCELROY ROAD
FAYETTEVILLE, GEORGIA

Prepared for
FAYETTE CO. FIRE DEPT

COMMISSION NO:
1748.00

SHEET TITLE:
PLUMBING ACCESSORIES & RESTROOM PLAN DETAILS

SHEET NO:
A401

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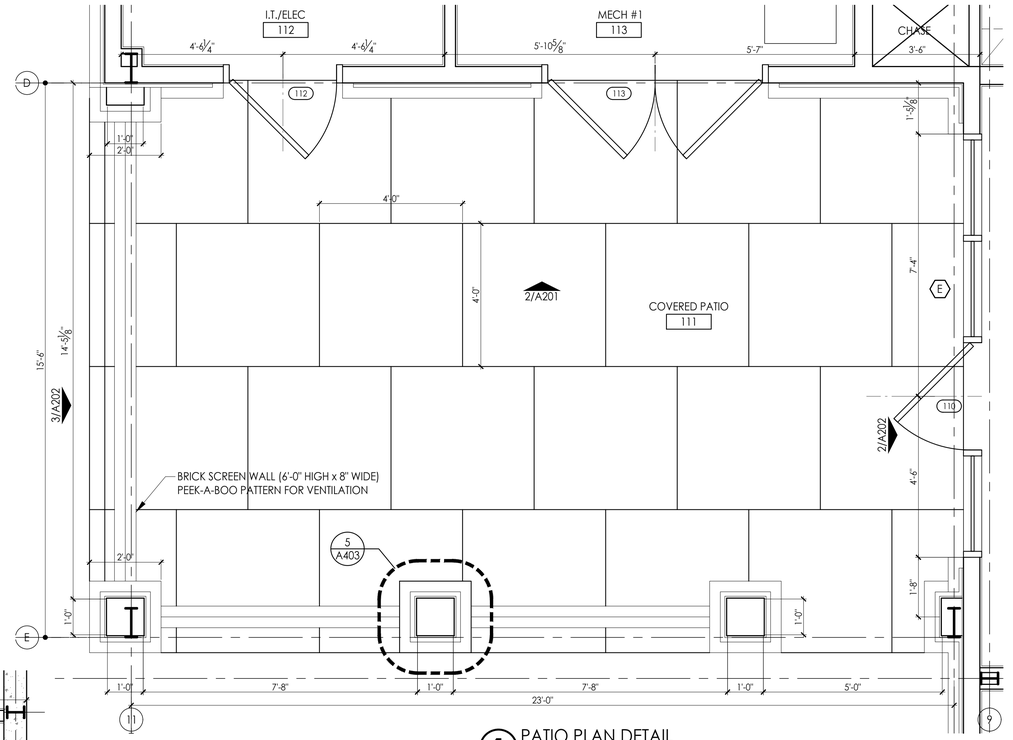
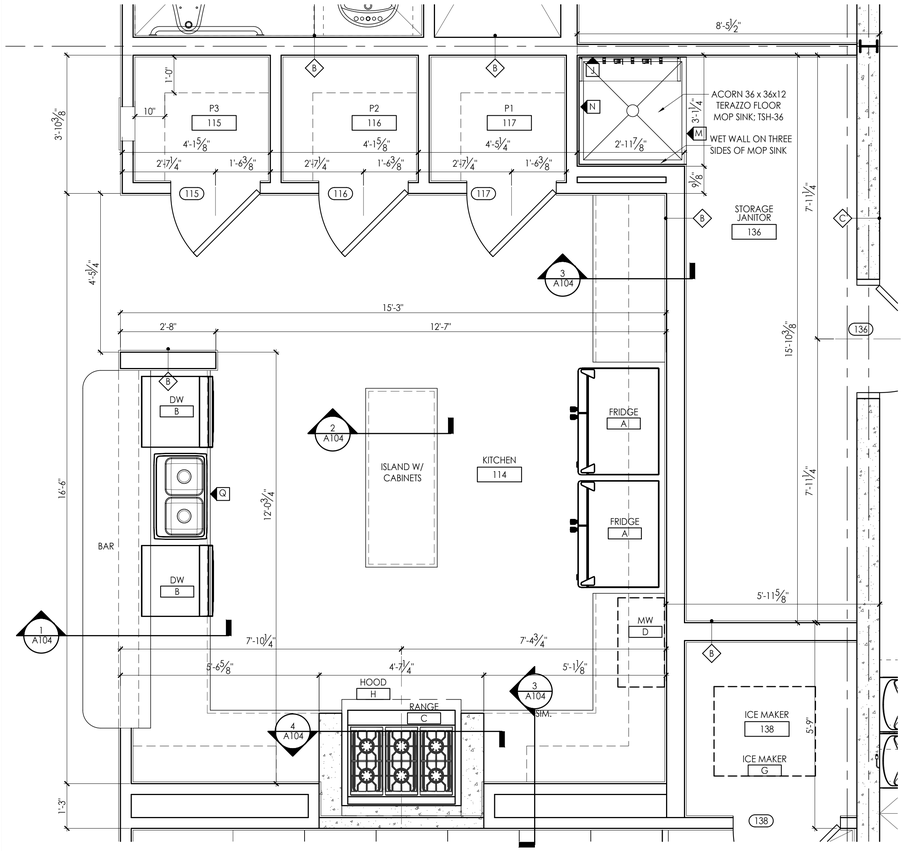
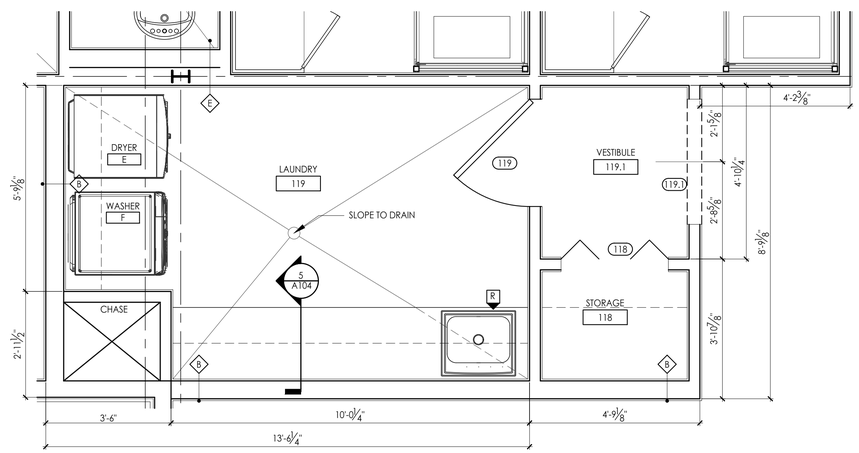


1 PATIO PLAN DETAIL
SCALE: 1/2"=1'-0"



2 KITCHEN PLAN DETAIL
SCALE: 1/2"=1'-0"

EQUIPMENT LEGEND				
	MANUFACTURER	MODEL #	QUANTITY	DESCRIPTION
A	GENERAL ELECTRIC	XXX	2	SS GE SIDE BY SIDE REFRIGERATOR W/ DOOR ICE & WATER
B	GENERAL ELECTRIC	XXX	2	SS DISHWASHER
C	IMPERIAL	IR-6	1	36" GAS RANGE 36Wx31.5Dx56.5H
D	TO BE DETERMINED		2	SS MICROWAVE
E	GENERAL ELECTRIC	GFD49ERPKDG	1	8.3 CU FT CAPACITY ENERGY STAR DRYER
F	GENERAL ELECTRIC	GFW490RPK/RSK	1	4.9DOE CU FT CAPACITY FRONT LOAD ENERGY STAR WASHER
G	MANITOWOC	ID-0452A	1	INDIGO SERIES ICE MAKER W/ STORAGE BIN (I450 / B570)
H	ACCUREX	X-BEW	1	RANGE HOOD; EXHAUST ONLY; WALL CANOPY HOOD
I				
J				
K				
L				
M				
N				
O				
P				
Q				
R				



3 LAUNDRY PLAN DETAIL
SCALE: 1/2"=1'-0"

FLOOR PLAN NOTES

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LEGEND

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RICHARD A. OLDHAM
CERTIFICATE NO. 009004
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FAYETTE CO.
FIRE STATION NO. 4

278 MCELROY ROAD
FAYETTEVILLE, GEORGIA

Prepared for
FAYETTE CO.
FIRE DEPT

COMMISSION NO:
1748.00

SHEET TITLE:
KITCHEN, LAUNDRY, PATIO PLAN DETAILS

SHEET NO:
A402

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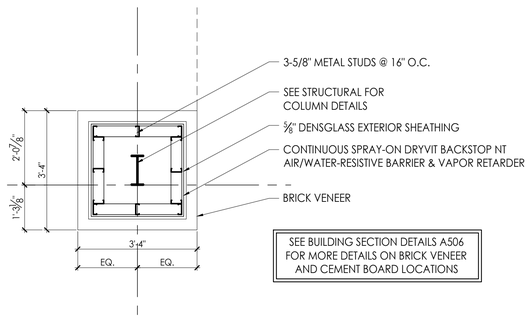
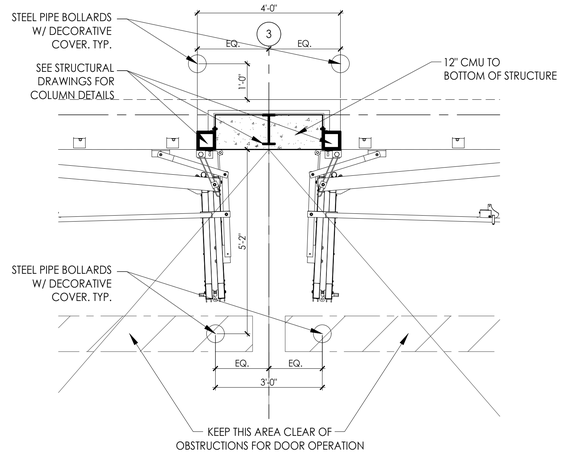
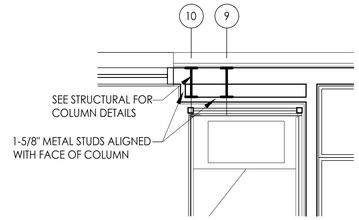


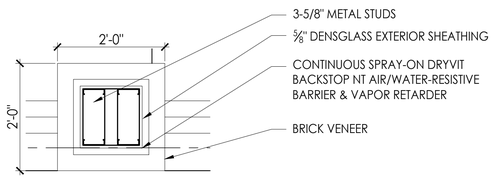
3 PLAN DETAIL @ BRICK VENEER COLUMN
SCALE: 1/2"=1'-0"



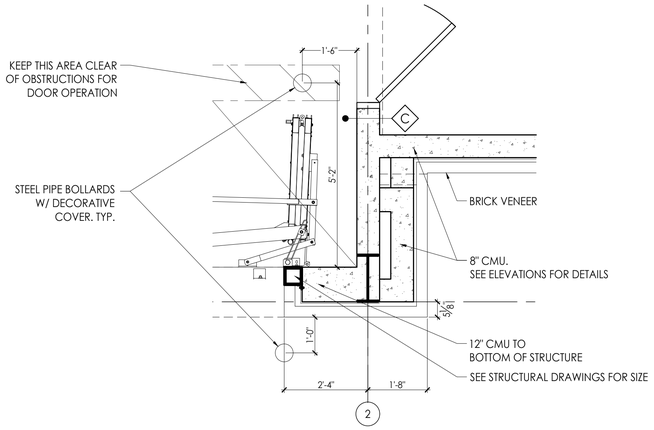
2 PLAN DETAIL @ 12" CMU WALL
SCALE: 1/2"=1'-0"



1 PLAN DETAIL @ COLUMNS
SCALE: 1/2"=1'-0"



5 PLAN DETAIL @ PATIO COLUMN
SCALE: 3/4"=1'-0"



4 PLAN DETAIL
SCALE: 1/2"=1'-0"

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SHEET TITLE:
PLAN DETAILS

SHEET NO:
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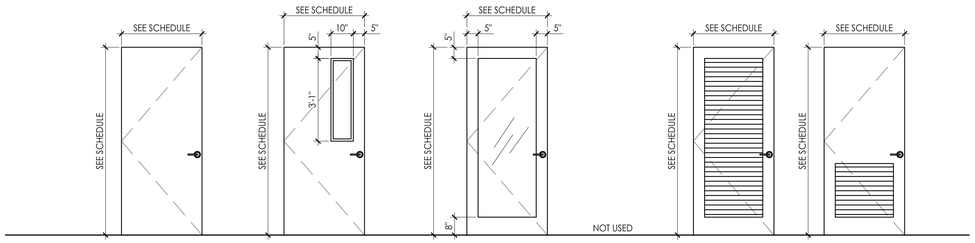
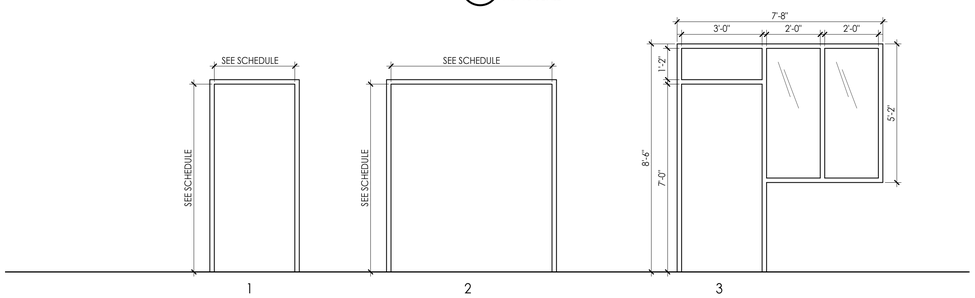
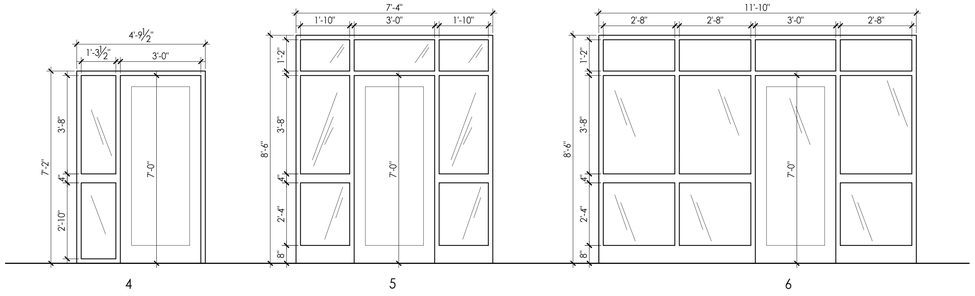


2 DOOR TYPES
NOT TO SCALE





3 FRAME TYPES
NOT TO SCALE

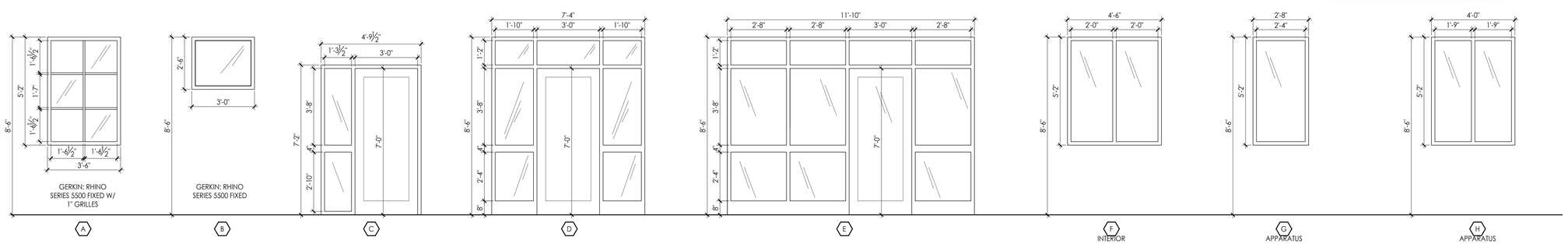
DOOR SCHEDULE

					DOOR			FRAME			DETAILS						
DOOR NO.	ROOM NAME	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB	SILL	RATING	HDWR NO.***	ADDTL. HARDWARE	COMMENTS
100	ENTRY	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
101	LOBBY	3'-0"	7'-0"	1-3/4"	C	SF	MANF	5	SF	MANF				--			STORE FRONT
101.1	MECH #2	3'-0"	7'-0"	1-3/4"	A	SCWD	STAIN	1	HM	PAINT	HX	JX	SX	--			
102A	WATCH STATION	3'-0"	7'-0"	1-3/4"	B	SCWD	STAIN	1	HM	PAINT				--		SECURE CARD READER	
102B	WATCH STATION	3'-0"	7'-0"	1-3/4"	B	SCWD	STAIN	1	HM	PAINT				--			
103	CLOSET	(2) 2'-0"	7'-0"	1-3/4"	A	SCWD	STAIN	1	HM	PAINT				--			
104	WATCH OFFICE	3'-0"	7'-0"	1-3/4"	B	SCWD	STAIN	3	HM	PAINT				--			
105A	HALL #1	3'-0"	7'-0"	1-3/4"	B	SCWD	STAIN	2	HM	PAINT				--		SECURE CARD READER	
105B	HALL #1	5'-0"	8'-0"	--	--	--	--	--	--	--				--	--	--	CASED OPENING
106	HC TOILET #1	3'-0"	7'-0"	1-3/4"	A	SCWD	STAIN	1	HM	PAINT				--			
107	EXERCISE ROOM	3'-0"	7'-0"	1-3/4"	B	SCWD	STAIN	1	HM	PAINT				--			
108	HALL #2	3'-0"	7'-0"	1-3/4"	B	HM	PAINT	1	HM	PAINT				20 MIN		CONTINUOUS HINGE	IBC 2012: TABLE 716.5
109	DAY ROOM	3'-0"	7'-0"	1-3/4"	A	SCWD	STAIN	1	HM	PAINT				--			
110	DINING	3'-0"	7'-0"	1-3/4"	C	SF	MANF	6	SF	MANF				--			STORE FRONT
111	COVERED PATIO	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
112	I.T./ELEC	3'-0"	7'-0"	1-3/4"	A	HM	PAINT	1	HM	PAINT				--			
113	SPRINKLER ROOM/MECH #1	(2) 3'-0"	7'-0"	1-3/4"	A	HM	PAINT	2	HM	PAINT				--			
114	KITCHEN	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
115	PANTRY #1	3'-0"	7'-0"	1-3/4"	E	LPWD	STAIN	1	HM	PAINT				--		PAINTED METAL LOUVERS	
116	PANTRY #2	3'-0"	7'-0"	1-3/4"	E	LPWD	STAIN	1	HM	PAINT				--		PAINTED METAL LOUVERS	
117	PANTRY #3	3'-0"	7'-0"	1-3/4"	E	LPWD	STAIN	1	HM	PAINT				--		PAINTED METAL LOUVERS	
118	STORAGE	(2) 1'-6"	7'-0"	1-3/4"	E	LPWD	STAIN	1	HM	PAINT				--		PAINTED METAL LOUVERS	
119	LAUNDRY	3'-0"	7'-0"	1-3/4"	A	SCWD	STAIN	1	HM	PAINT				--			
119.1	VESTIBULE	3'-6"	8'-0"	--	--	--	--	--	--	--				--	--	--	CASED OPENING
120	HALL #3	3'-0"	7'-0"	1-3/4"	B	SCWD	STAIN	1	HM	PAINT				--		CONTINUOUS HINGE	
121A	CORRIDOR	3'-0"	7'-0"	1-3/4"	C	SF	MANF	4	SF	MANF				--		SECURE CARD READER	STORE FRONT
121B	CORRIDOR	3'-0"	7'-0"	1-3/4"	B	HM	PNT	1	HM	PAINT				20 MIN		CONTINUOUS HINGE	IBC 2012: TABLE 716.5
122	SLEEPING AREA #1	3'-0"	7'-0"	1-3/4"	A	SCWD	STAIN	1	HM	PAINT				--			
123	SLEEPING AREA #2	3'-0"	7'-0"	1-3/4"	A	SCWD	STAIN	1	HM	PAINT				--			
124	BATH #2	3'-0"	7'-0"	1-3/4"	A	SCWD	STAIN	1	HM	PAINT				--			
125	BATH #3	3'-0"	7'-0"	1-3/4"	A	SCWD	STAIN	1	HM	PAINT				--			
126	SLEEPING AREA #3	3'-0"	7'-0"	1-3/4"	A	SCWD	STAIN	1	HM	PAINT				--			
127	SLEEPING AREA #4	3'-0"	7'-0"	1-3/4"	A	SCWD	STAIN	1	HM	PAINT				--			
128	SLEEPING AREA #5	3'-0"	7'-0"	1-3/4"	A	SCWD	STAIN	1	HM	PAINT				--			
129	SLEEPING AREA #6	3'-0"	7'-0"	1-3/4"	A	SCWD	STAIN	1	HM	PAINT				--			
130	SLEEPING AREA #7	3'-0"	7'-0"	1-3/4"	A	SCWD	STAIN	1	HM	PAINT				--			
131	STATION OFFICER SLEEPING	3'-0"	7'-0"	1-3/4"	A	SCWD	STAIN	1	HM	PAINT				--			
132	HC BATH #1	3'-0"	7'-0"	1-3/4"	A	SCWD	STAIN	1	HM	PAINT				--			
133	BATTALION CHIEF'S OFFICE	3'-0"	7'-0"	1-3/4"	A	SCWD	STAIN	1	HM	PAINT				--			
134	BATT CHEIF'S SLEEPING AREA	3'-0"	7'-0"	1-3/4"	A	SCWD	STAIN		HM	PAINT				--			WALL HUNG SLIDING DOOR
135	EMS	3'-0"	7'-0"	1-3/4"	A	HM	PAINT	1	HM	PAINT				20 MIN		SECURE CARD READER; CONTINUOUS HINGE	IBC 2012: TABLE 716.5
136	STORAGE JANITOR	3'-0"	7'-0"	1-3/4"	A	HM	PAINT	1	HM	PAINT				20 MIN		CONTINUOUS HINGE	IBC 2012: TABLE 716.5
137	CREW LOCKERS	3'-0"	7'-0"	1-3/4"	A	HM	PAINT	1	HM	PAINT				20 MIN		CONTINUOUS HINGE	IBC 2012: TABLE 716.5
138	ICE MAKER	3'-0"	7'-0"	1-3/4"	F	LPMD	PAINT	1	HM	PAINT				--		PAINTED METAL LOUVERS	
139	CHARGING ALCOVE	20'-4"	9'-0"	--	--	--	--	--	--	--				--			CASED OPENING
140	TURNOUT GEAR LAUNDRY	(2)3'-0"	7'-0"	1-3/4"	F	LPMD	PAINT	2	HM	PAINT				--		PAINTED METAL LOUVERS	
141	COMPRESSOR ROOM	(2)3'-0"	7'-0"	1-3/4"	F	LPMD	PAINT	2	HM	PAINT				--		PAINTED METAL LOUVERS	
142	OUTSIDE STORAGE	(2)3'-0"	7'-0"	1-3/4"	A	HM	PAINT	2	HM	PAINT				--			
143A	APPARATUS BAY DOOR	14'-0"	14'-0"				MANF			MANF				--			
143B	APPARATUS BAY DOOR	14'-0"	14'-0"				MANF			MANF				--			
143C	APPARATUS BAY DOOR	14'-0"	14'-0"				MANF			MANF				--			
143D	APPARATUS BAY DOOR	14'-0"	14'-0"				MANF			MANF				--			
143E	APPARATUS BAY DOOR	14'-0"	14'-0"				MANF			MANF				--			
143F	APPARATUS BAY DOOR	14'-0"	14'-0"				MANF			MANF				--			
143G	APPARATUS BAY EGRESS DOOR	3'-0"	7'-0"	1-3/4"	A	HM	PAINT	1	HM	PAINT				--		SECURE CARD READER	

SCWD = SOLID CORE WOOD DOOR
HM = HOLLOW METAL
SF = STOREFRONT
LPWD = LOUVERED PANEL WOOD DOOR
LPMD = LOUVERED PANEL METAL DOOR

***SEE HARDWARE SPECIFICATIONS FOR MORE DETAILS

IBC 2012: TABLE 716.6
ALL WINDOWS PLACED IN A 1 HOUR FIRE RATED WALL MUST HAVE A MINIMUM FIRE WINDOW ASSEMBLY RATING OF 45 MIN.



1 WINDOW TYPES
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FAYETTE CO. FIRE STATION NO. 4

278 MCELROY ROAD
FAYETTEVILLE, GEORGIA

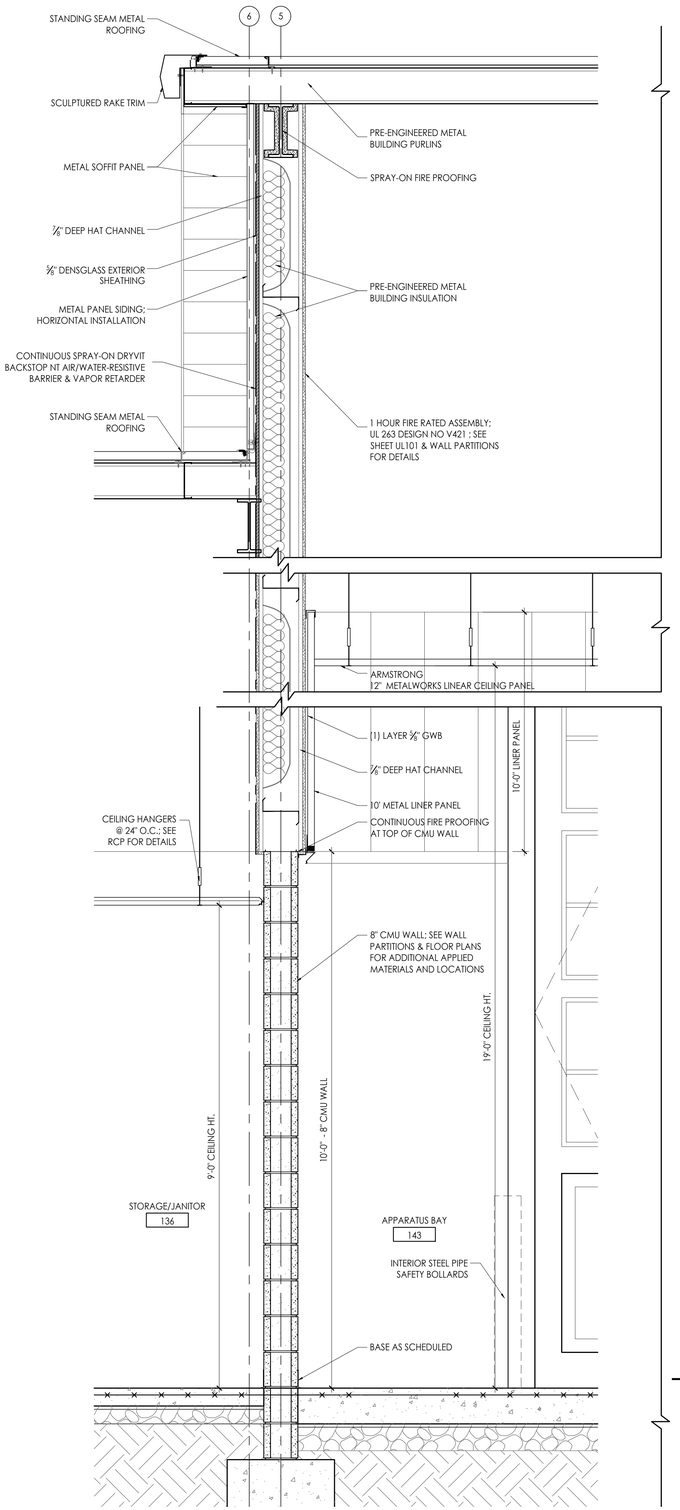
Prepared for
FAYETTE CO. FIRE DEPT

COMMISSION NO:
1748.00

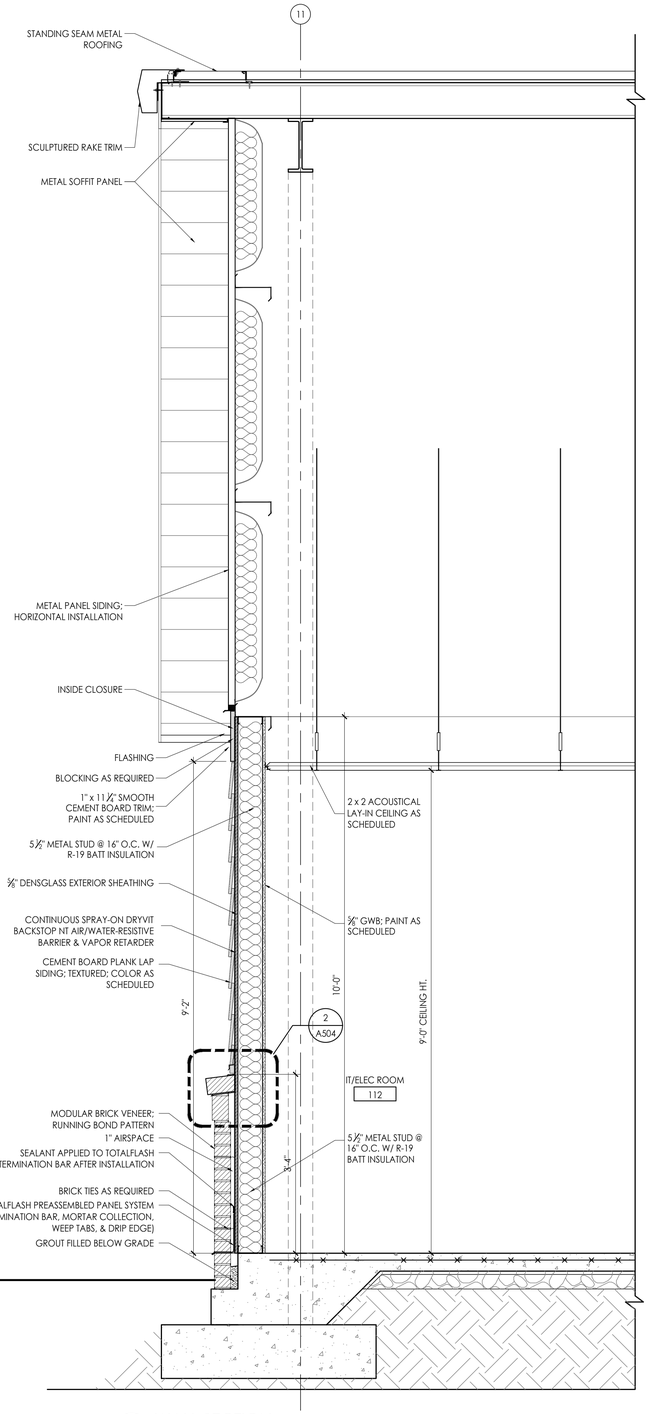
SHEET TITLE:
DOOR & WINDOW SCHEDULE / DETAILS

SHEET NO:
A404

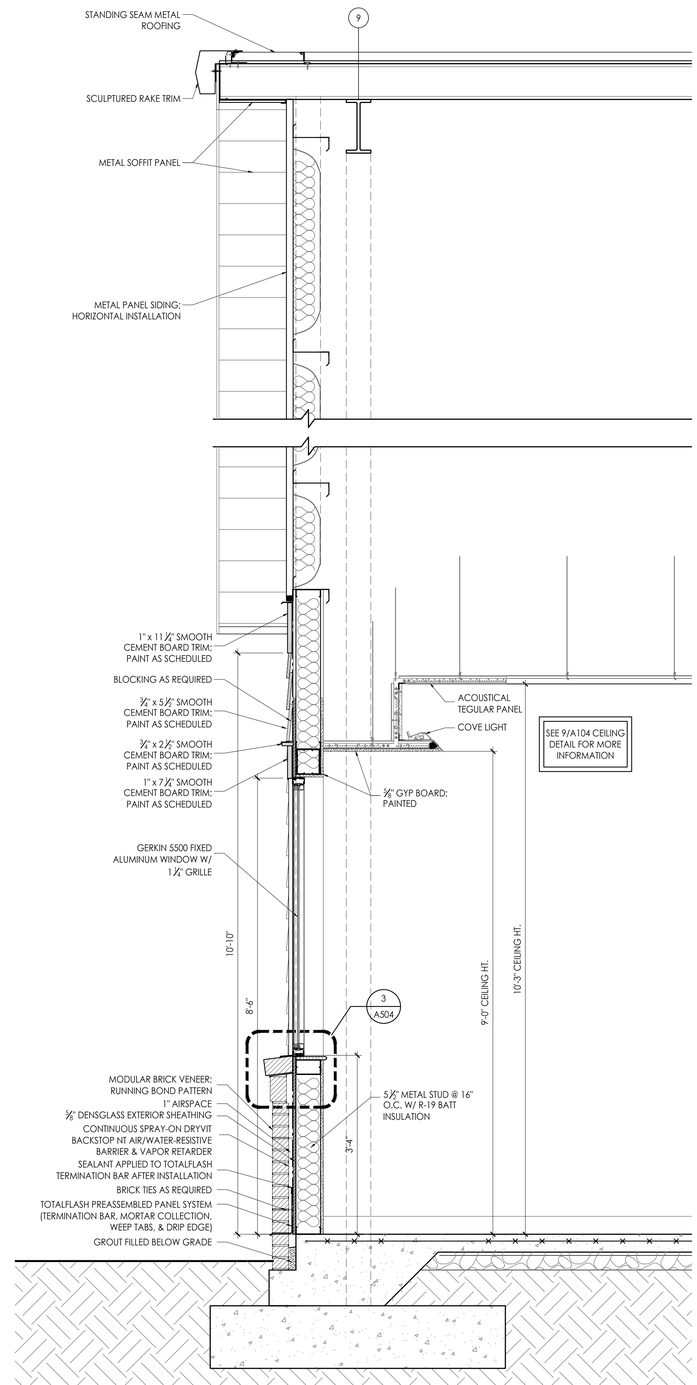
NOT ISSUED FOR CONSTRUCTION



3 WALL SECTION @ 1 HOUR WALL ASSEMBLY
SCALE: 3/4"=1'-0"



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



1 WALL SECTION @ WINDOW
SCALE: 3/4"=1'-0"

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1748.00

SHEET TITLE:
WALL SECTIONS

SHEET NO:
A501

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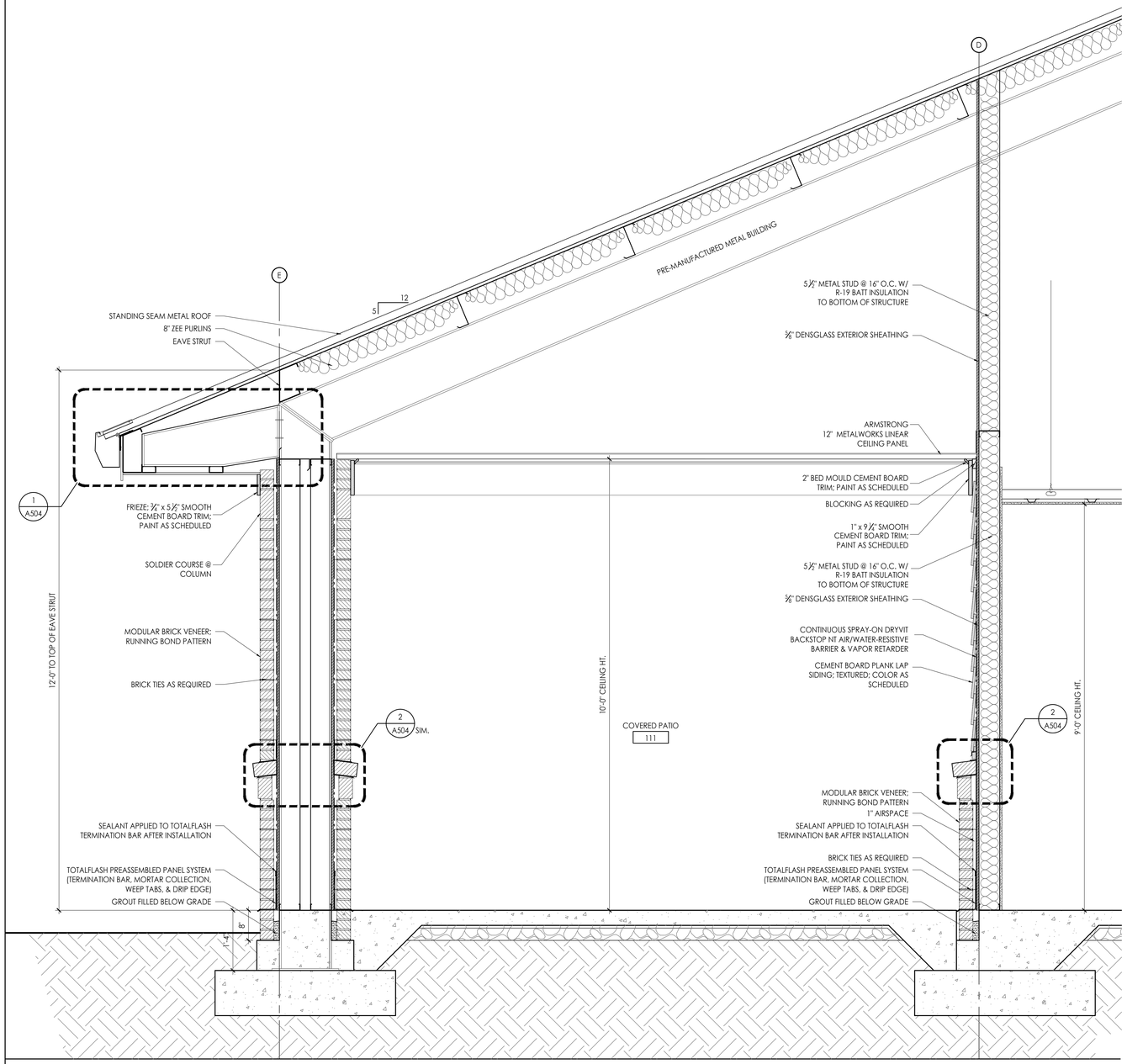
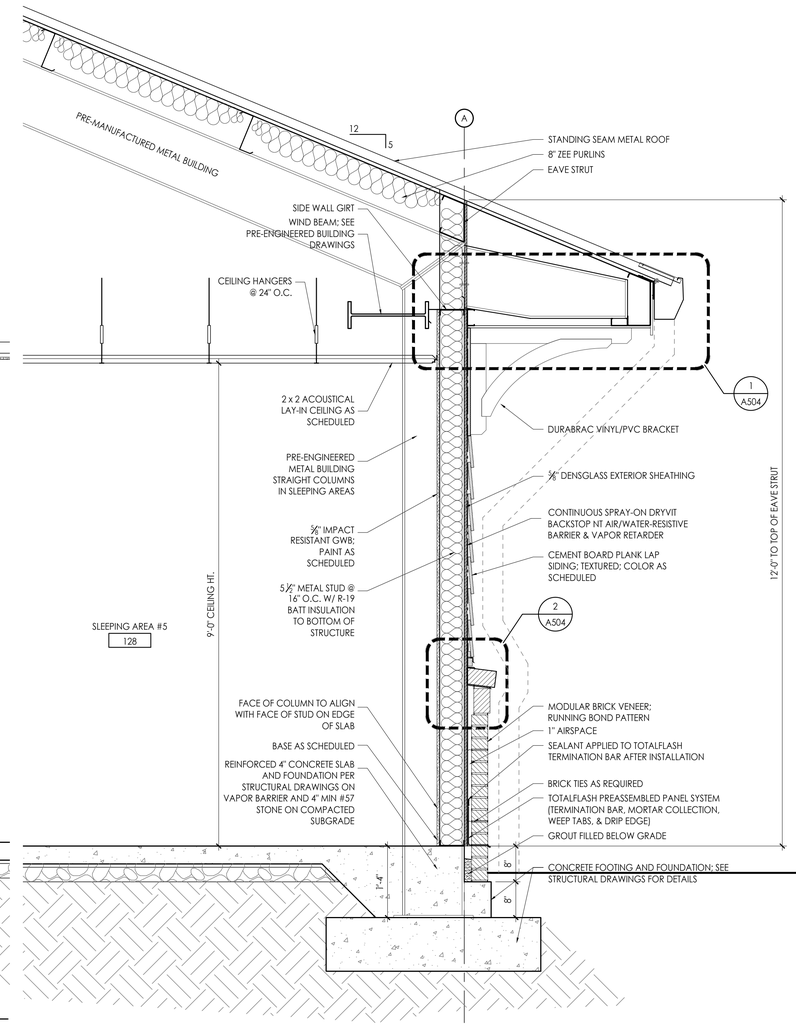


2 WALL SECTIONS @ COVERED PATIO
SCALE: 3/4"=1'-0"



1 WALL SECTION @ SLEEPING AREA
SCALE: 3/4"=1'-0"

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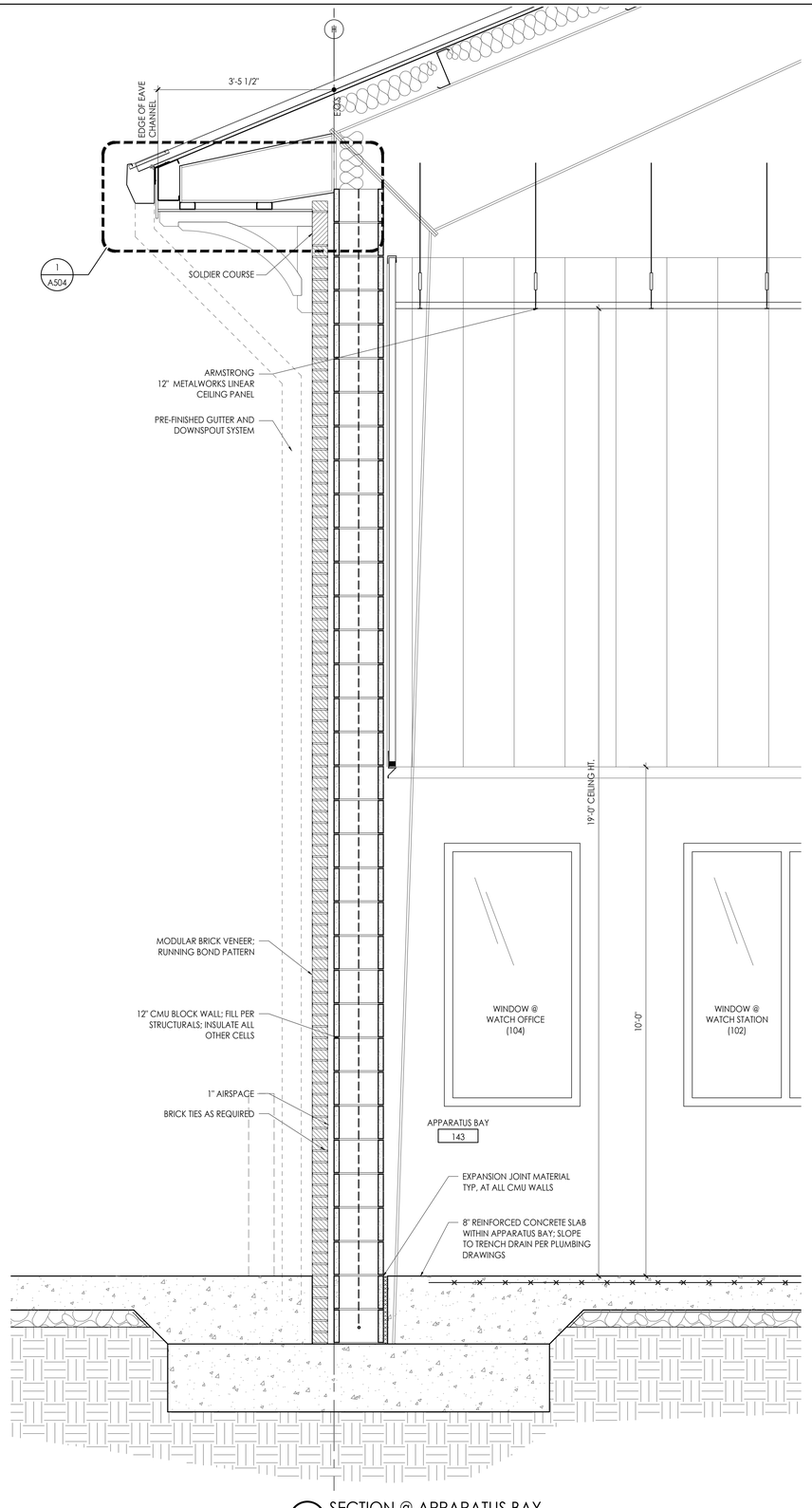
FIRE DEPT

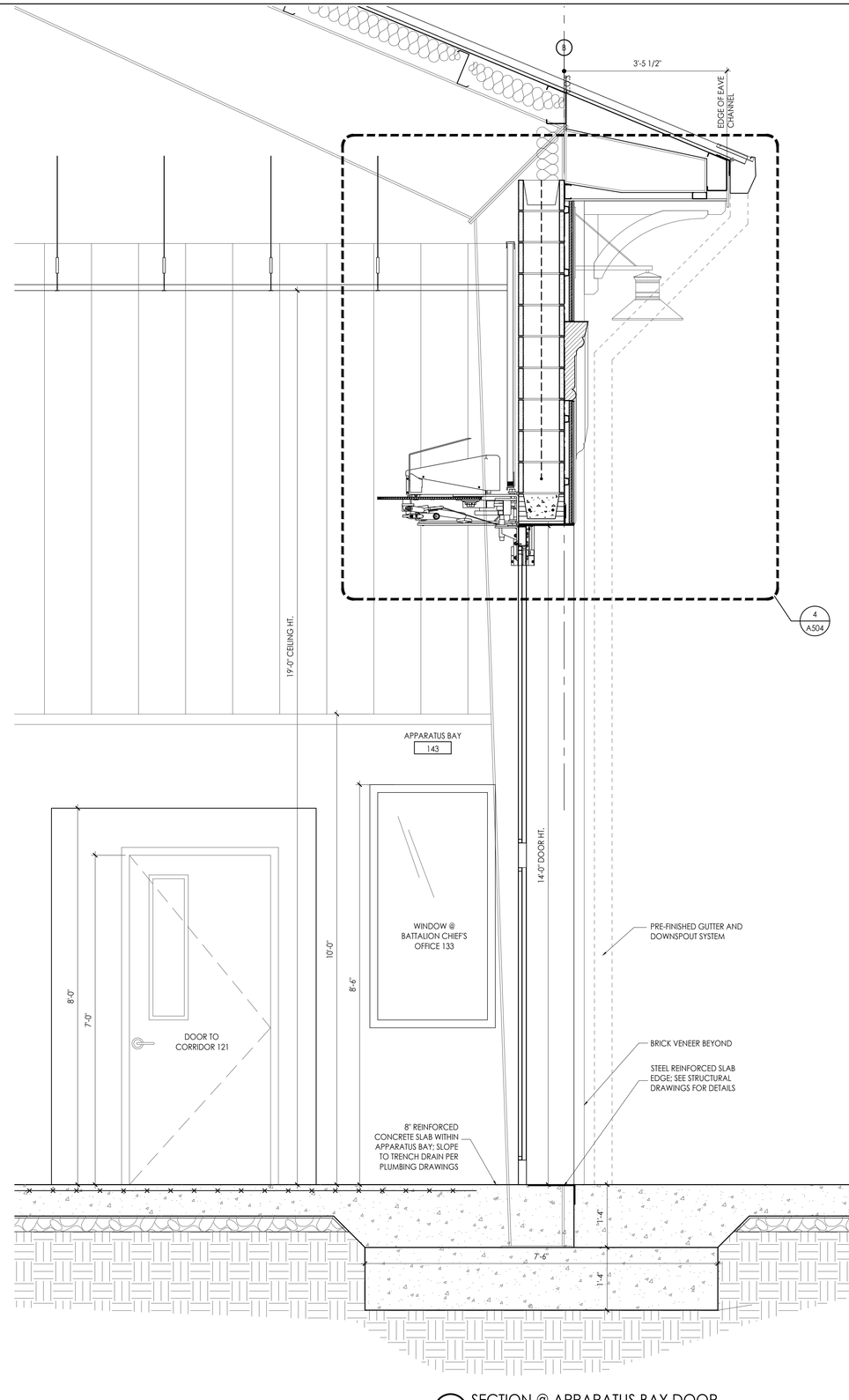
COMMISSION NO:
1748.00

SHEET TITLE:
WALL SECTIONS

SHEET NO:
A502
NOT ISSUED FOR CONSTRUCTION



2 SECTION @ APPARATUS BAY
SCALE: 3/4"=1'-0"



1 SECTION @ APPARATUS BAY DOOR
SCALE: 3/4"=1'-0"

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FAYETTE CO.
FIRE STATION NO. 4

278 MCELROY ROAD
FAYETTEVILLE, GEORGIA

Prepared for
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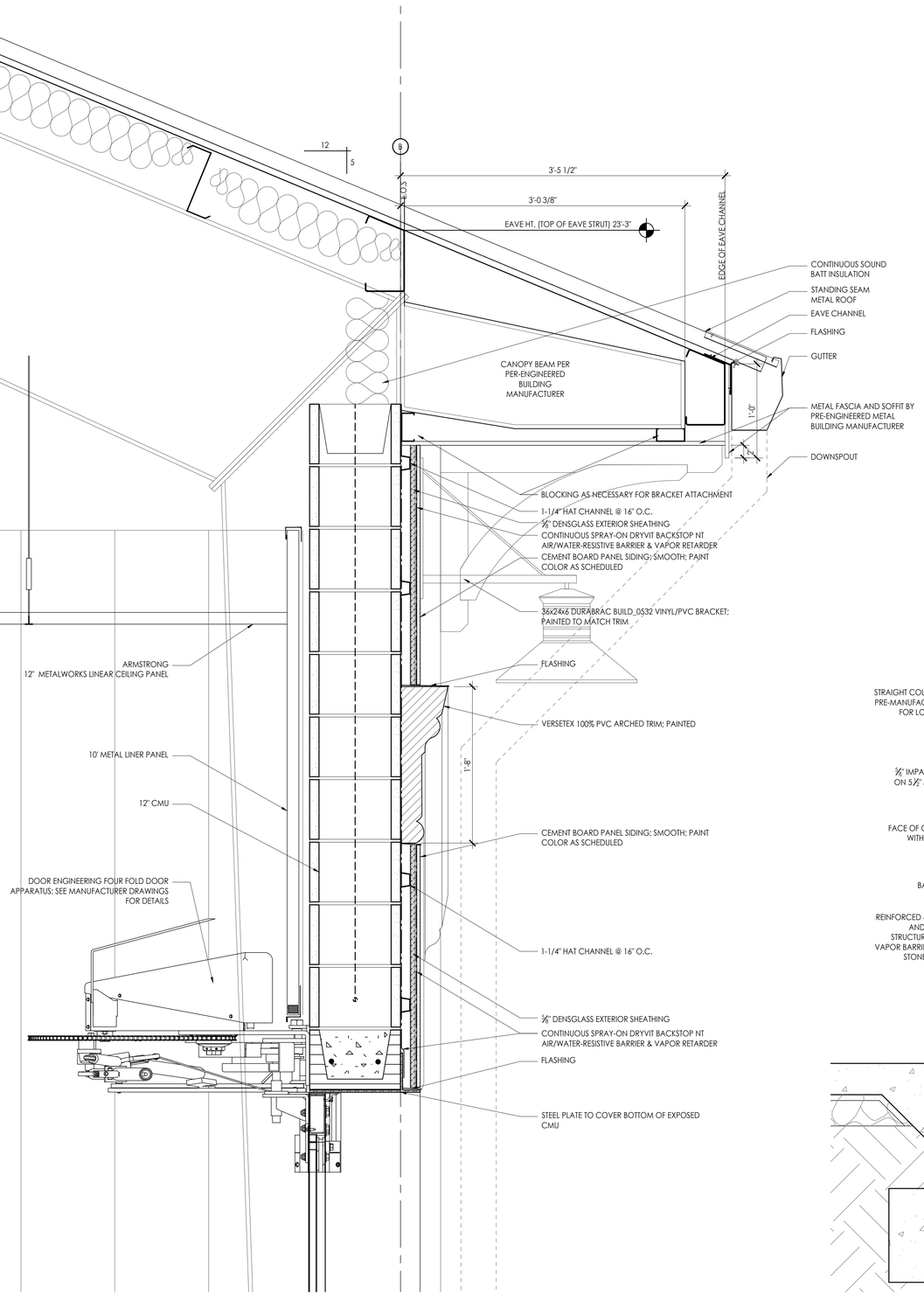
FIRE DEPT

COMMISSION NO:
1748.00

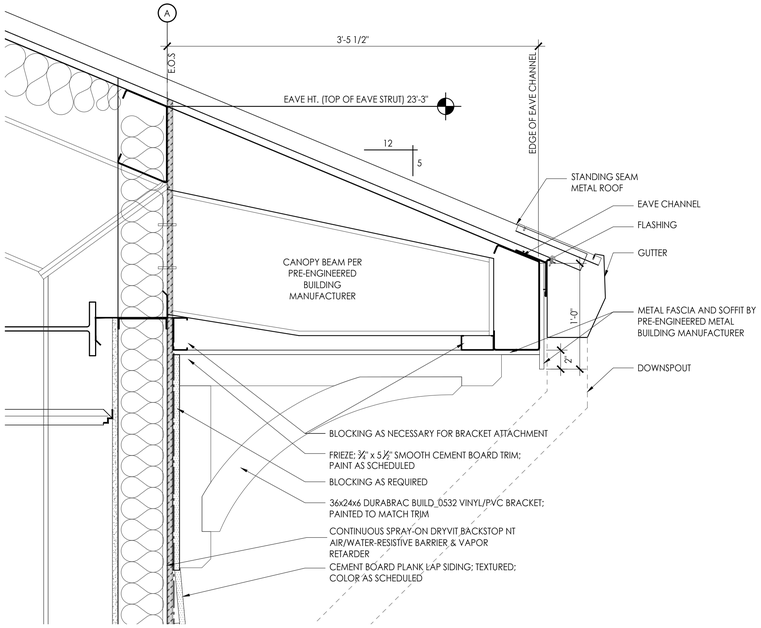
SHEET TITLE:
WALL SECTIONS

SHEET NO:
A503

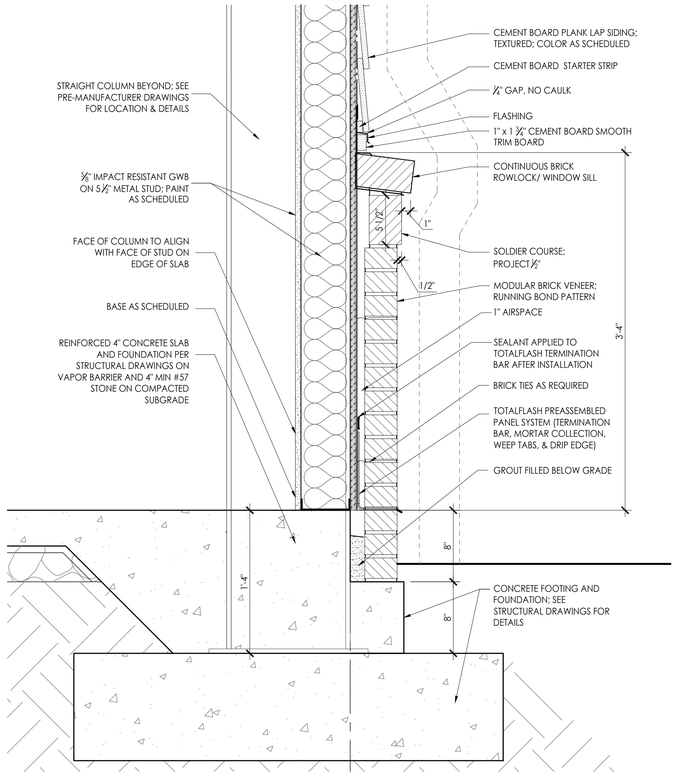
NOT ISSUED FOR CONSTRUCTION



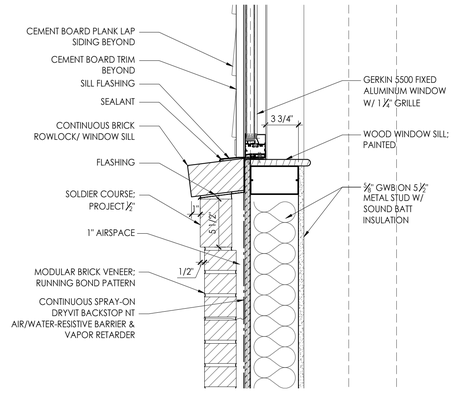
4 DETAIL @ APPARATUS BAY DOOR HEADER & EAVE
SCALE: 1 1/2"=1'-0"



1 DETAIL @ EAVE
SCALE: 1 1/2"=1'-0"



2 DETAIL @ BRICK WATERTABLE
SCALE: 1 1/2"=1'-0"



3 DETAIL @ WINDOW SILL
SCALE: 1 1/2"=1'-0"

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278 MCELROY ROAD
FAYETTEVILLE, GEORGIA

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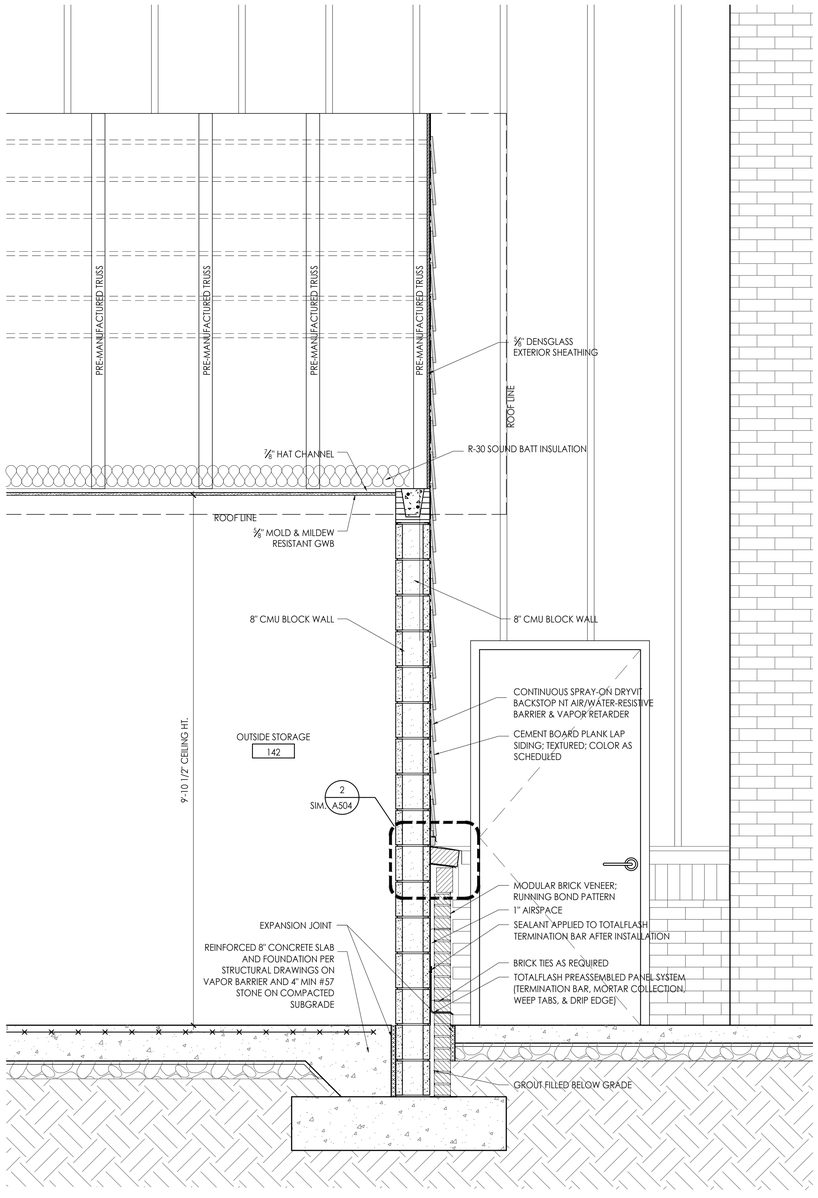
FAYETTE CO. FIRE DEPT

COMMISSION NO:
1748.00

SHEET TITLE:
DETAIL SECTIONS

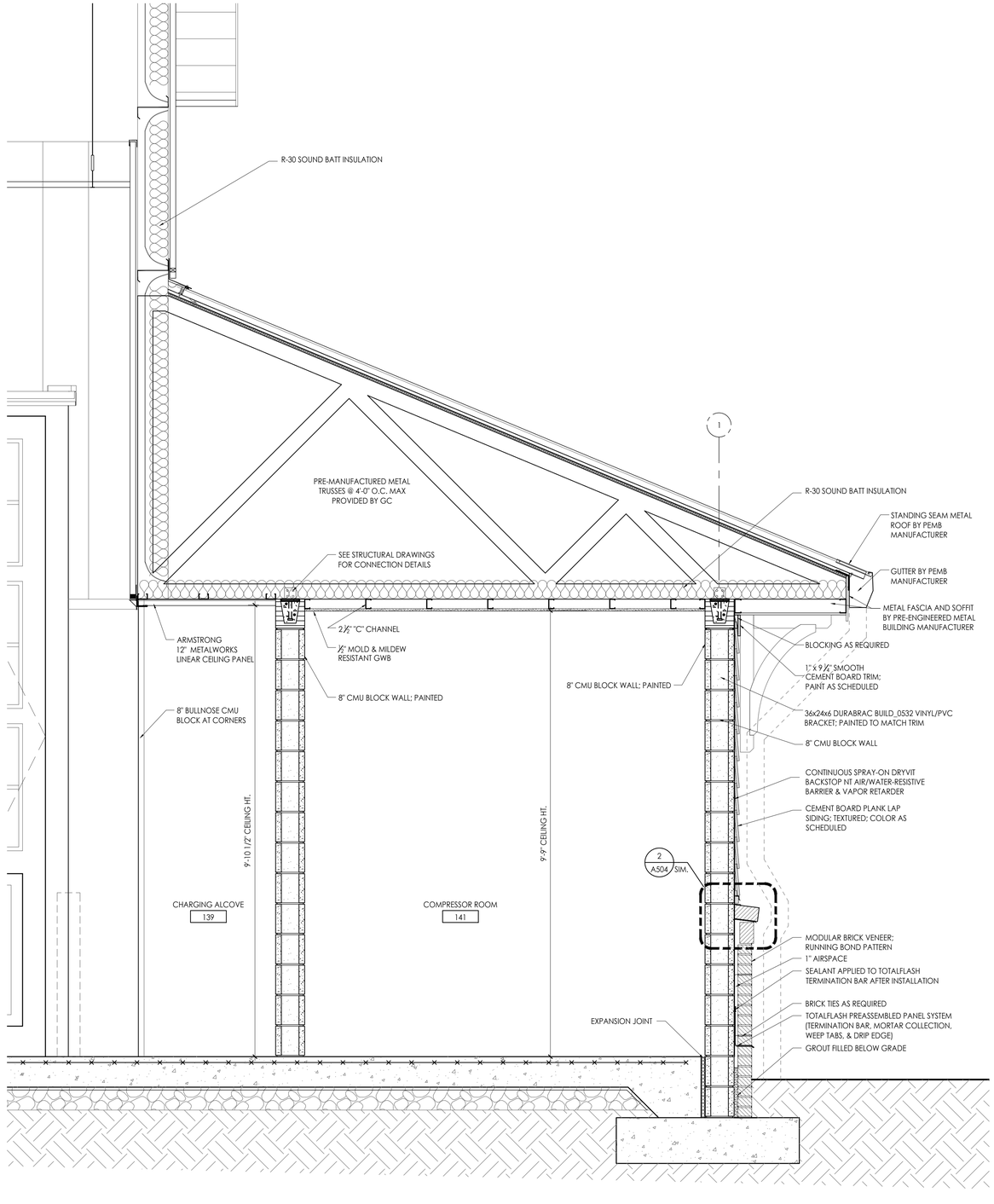
SHEET NO:
A504

NOT ISSUED FOR CONSTRUCTION



2 WALL SECTION @ OUTSIDE STORAGE

SCALE: 3/4"=1'-0"



1 WALL SECTION @ COMPRESSOR ROOM

SCALE: 3/4"=1'-0"

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FAYETTEVILLE, GEORGIA

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1748.00

SHEET TITLE:
WALL SECTIONS

SHEET NO:
A505

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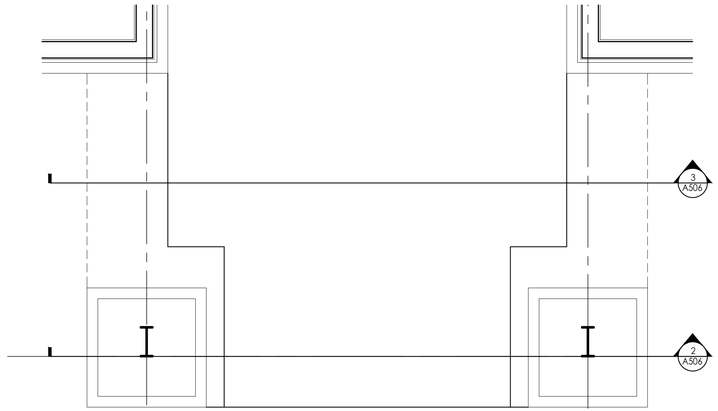
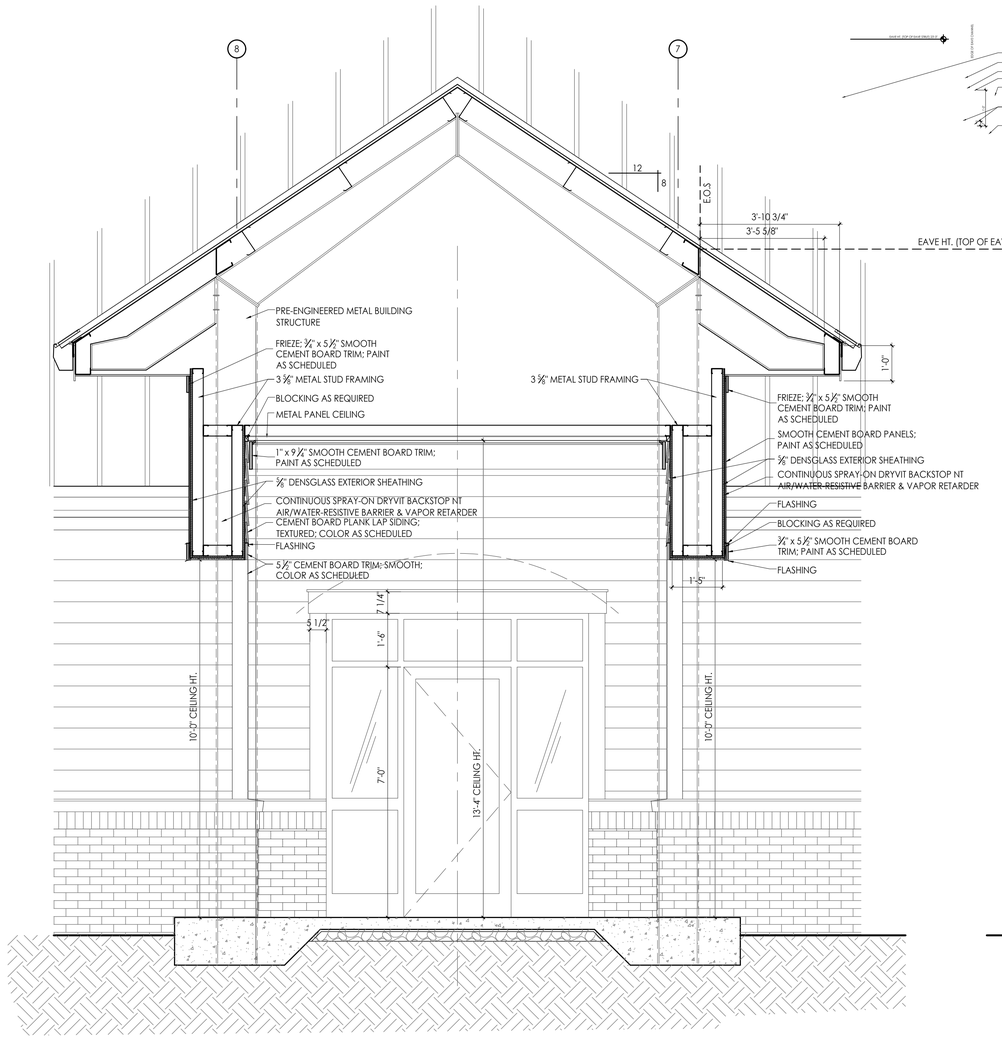


1 ENTRY 100 PLAN
SCALE: 1/2"=1'-0"



3 SECTION @ ENTRY
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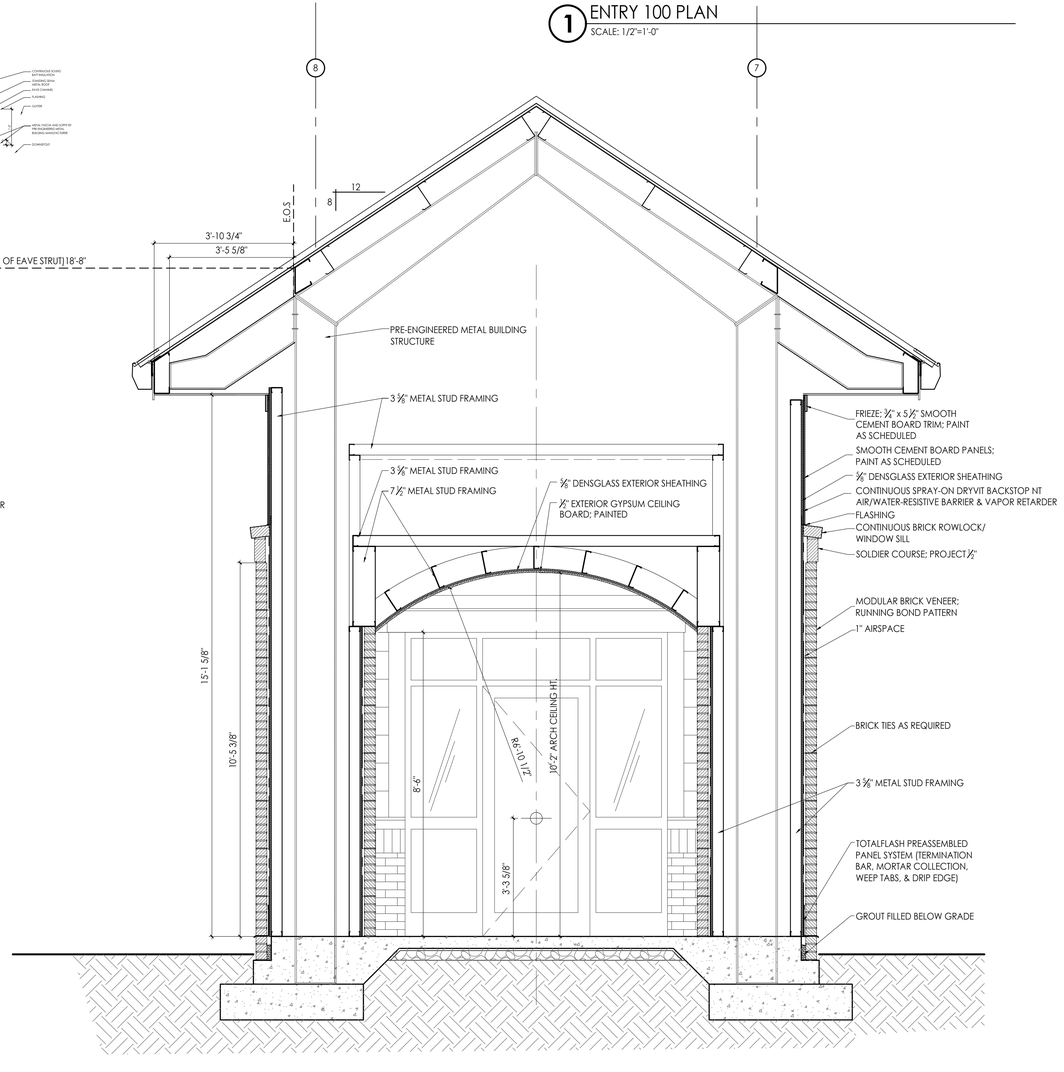

2 SECTION @ ENTRY
SCALE: 1/2"=1'-0"

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SHEET TITLE:
ENTRY DETAILS

SHEET NO:
A506

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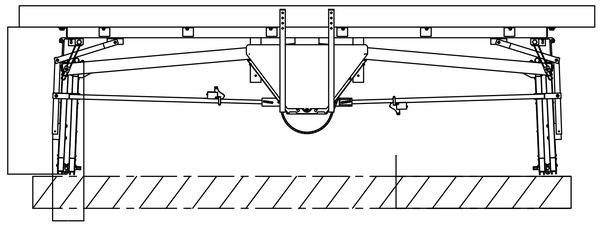
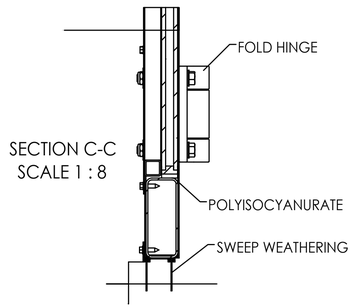
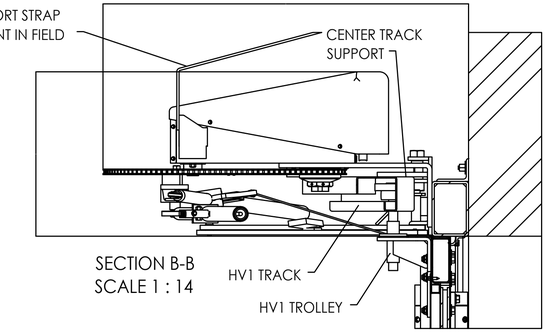
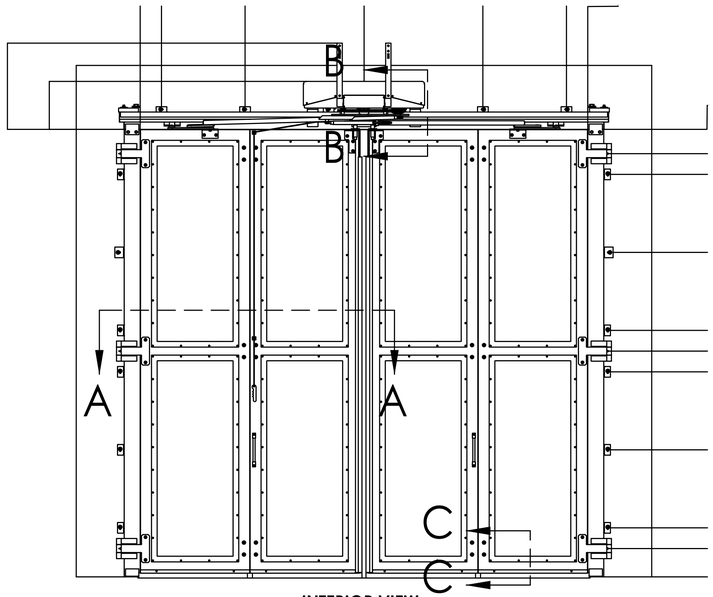




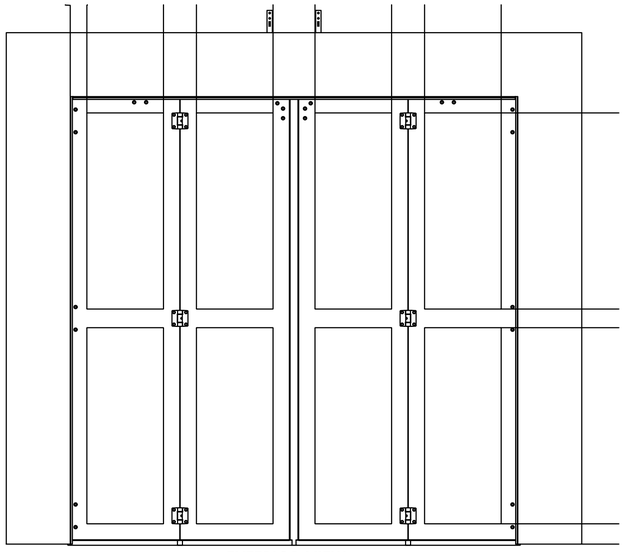
SECTION C-C
SCALE 1 : 8



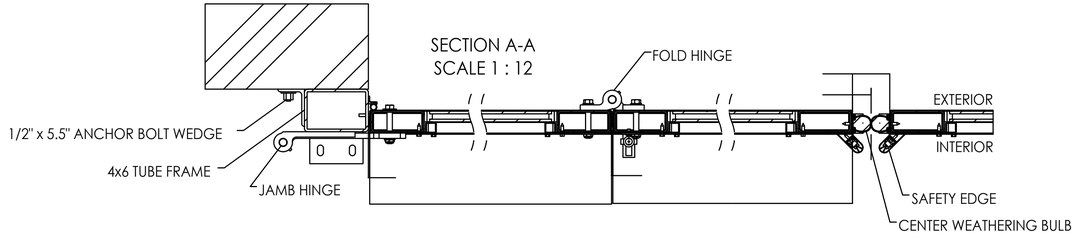
SECTION B-B
SCALE 1 : 14



INTERIOR VIEW



EXTERIOR VIEW



TYPICAL DETAILS FOR 14" X 14" DOOR RATED UP TO 25 PSF
CONSULT DOOR ENGINEERING FOR ALTERNATE SIZES, WINGLOADS, GLASS LAYOUTS, AND OTHER CUSTOM OPTIONS

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MATERIAL	THICKNESS	
SEE PARTS LIST	N/A	DOOR ENGINEERING AND MANUFACTURING

UNLESS OTHERWISE SPECIFIED:	DO NOT SCALE DRAWING	TITLE:
DIMENSIONS ARE IN INCHES TOLERANCES: ANGULAR: ± 2° X.X = ± .1 (1/8") X.XX = ± .03 (1/32") X.XXX = ± .015 (1/64")	THIRD ANGLE PROJECTION	FF300 GENERAL LAYOUT

	NAME	DATE	SIZE	DWG. NO.	REV
DRAWN BY			B	14x14 F-1-1	1
CHECKED BY			SCALE: 1:48	MASS: 3706.68	SHEET 1 OF 1

1 FOUR FOLD DOOR DETAILS
NOT TO SCALE

DWG. NO. 14x14 F-1-1 | SH. 1 | REV. 1

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FAYETTE CO.
FIRE STATION NO. 4

278 MCELROY ROAD
FAYETTEVILLE, GEORGIA

Prepared for
FAYETTE CO.
FIRE DEPT

COMMISSION NO: 1748.00

SHEET TITLE: FOUR FOLD DOOR GENERAL LAYOUT

SHEET NO: A507

NOT ISSUED FOR CONSTRUCTION

MATERIAL LEGEND

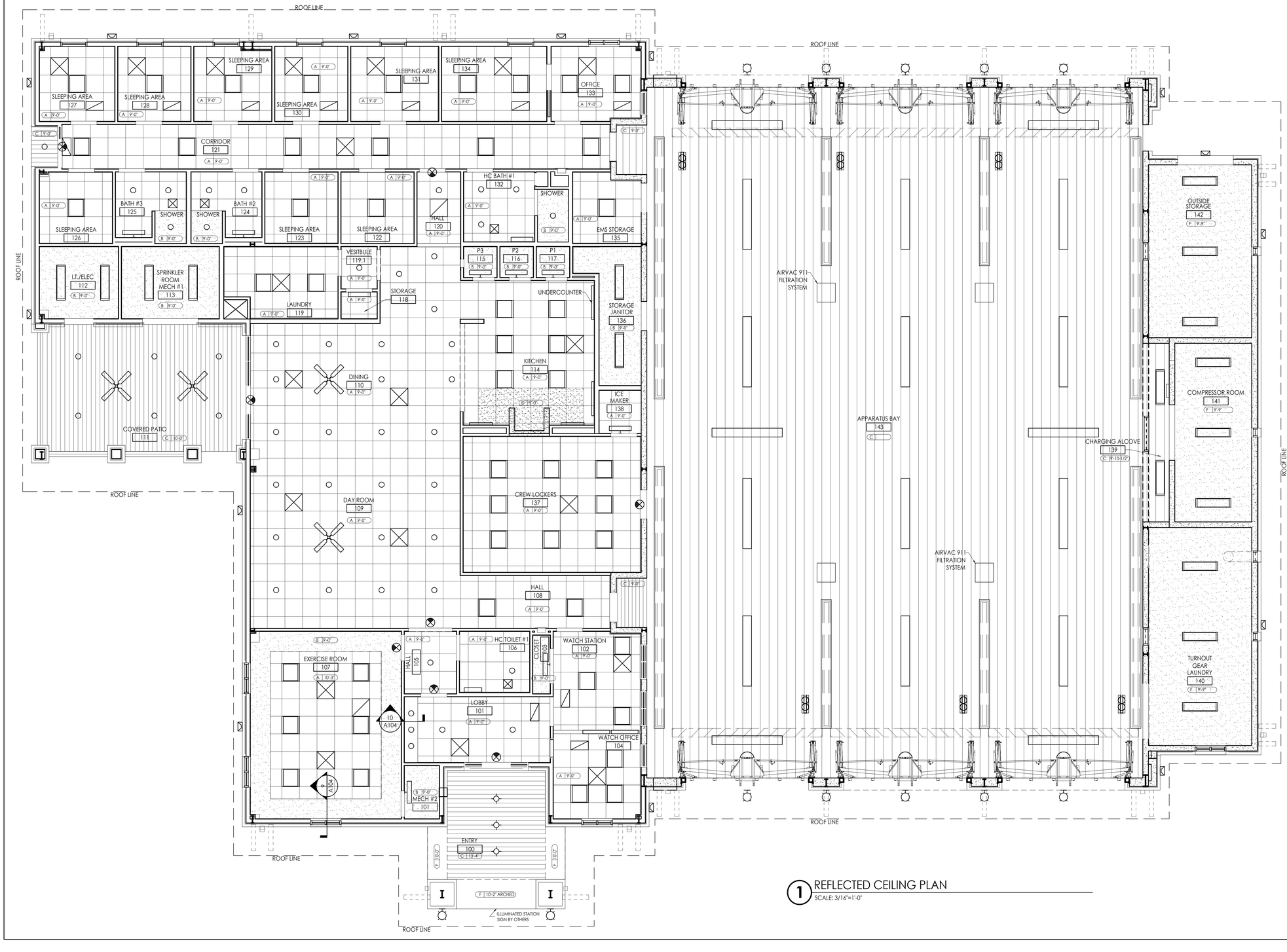
CEILING TYPE
A 10'-6"
CEILING HEIGHT A.F.F.

TAG		DESCRIPTION
A		2X2 SUSPENDED ACOUSTICAL LAY-IN CEILING
B		½" MOISTURE MOLD RESISTANT GWB
C		ARMSTRONG 12" METALWORKS LINEAR CEILING PANEL
D		2X2 SUSPENDED NON-POUROUS STAINLESS STEEL LAY-IN CEILING
E		OPEN TO PAINTED STRUCTURE
F		½" EXTERIOR GYPSUM CEILING BOARD

LIGHTING LEGEND

○	6" LED RECESSED DOWNLIGHT		LED EXTERIOR RATED		CEILING MOUNTED EXHAUST FAN
✧	DECORATIVE PENDANT; SEE SPECIFICATIONS		PENDANT CEILING FAN		EMERGENCY EXIT SIGN
	EXTERIOR WALL MOUNTED SCONCE		WALL MOUNTED LIGHT		CEILING DROP POWER CORDS
	2x2 LED LAY-IN		EXTERIOR WALL PACK	P	CEILING MOUNTED PROJECTOR
	LED APPARATUS BAY LIGHT		LED RECESSED WALL WASHER		

* SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS
* ALL NEW LIGHTING FIXTURES SHALL BE LED's



1 REFLECTED CEILING PLAN
SCALE: 3/16"=1'-0"

CEILING NOTES

1. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. LIGHTING AND HVAC COMPONENTS SHOWN IN CEILING PLAN ARE FOR LOCATION AND DIMENSIONAL PURPOSES ONLY. REFER TO CONSULTANT DRAWINGS FOR FULL EXTENT. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND ENGINEERED DRAWINGS.
3. SEE ELECTRICAL DRAWINGS FOR LOCATIONS OF EXIT LIGHTING, EMERGENCY LIGHTING, AND LIFE SAFETY SYSTEMS.
4. COORDINATE ALL CEILING OPENINGS WITH ELECTRICAL AND MECHANICAL DRAWINGS.
5. DO NOT ATTACH PARTITION OR CEILING SYSTEMS TO PORTIONS OF ANY MECHANICAL EQUIPMENT. CONTRACTOR TO COORDINATE LOCATIONS AND PROVIDE ALTERNATE BRACING IF CONFLICTS OCCUR.
6. COORDINATE HEIGHTS OF SUSPENDED LIGHTING, OR SUSPENDED OR WALL MOUNTED HVAC COMPONENTS WITH ARCHITECT IF NOT PROVIDED IN DRAWINGS.
7. UNLESS OTHERWISE NOTED OR DIMENSIONED, CEILING GRID SHALL BE CENTERED WITHIN SPACES IN BOTH DIRECTIONS.
8. DIMENSIONS ARE TO FACE OF FINISHED SURFACE UNLESS NOTED OTHERWISE.
9. CENTER CEILING MOUNTED EQUIPMENT AND LIGHTS IN ACT PANEL UNLESS DIMENSIONED OR NOTED OTHERWISE.
10. SOUND BATT INSULATION CANNOT BE INSTALLED ABOVE CAN LIGHT FIXTURES. ABOVE ALL CAN LIGHT FIXTURES THERE SHALL BE A 3" CLEARANCE AROUND ALL CEILING CAN LIGHT FIXTURES INDICATED.
11. ALL EXTERIOR FIXTURES TO BE EXTERIOR RATED. REFER TO EXTERIOR ELEVATIONS AND SECTIONS FOR MOUNTING HEIGHTS. VERIFY HEIGHTS PRIOR TO INSTALLATION.

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Prepared for
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COMMISSION NO:
1748.00

SHEET TITLE:
REFLECTED CEILING PLAN

SHEET NO:
A601

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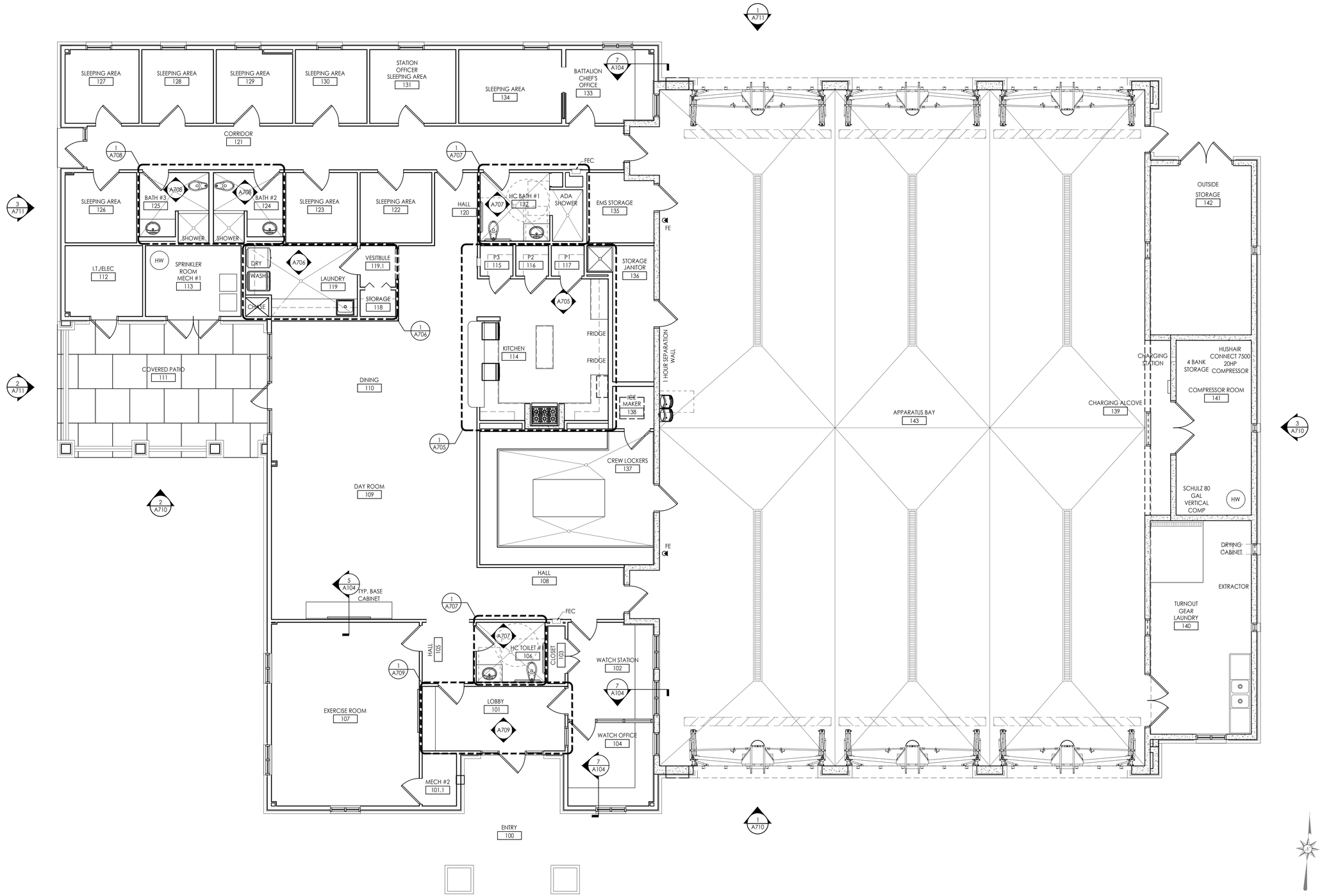

1 DETAIL FLOOR PLAN
SCALE: 3/16"=1'-0"

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COMMISSION NO:
1748.00

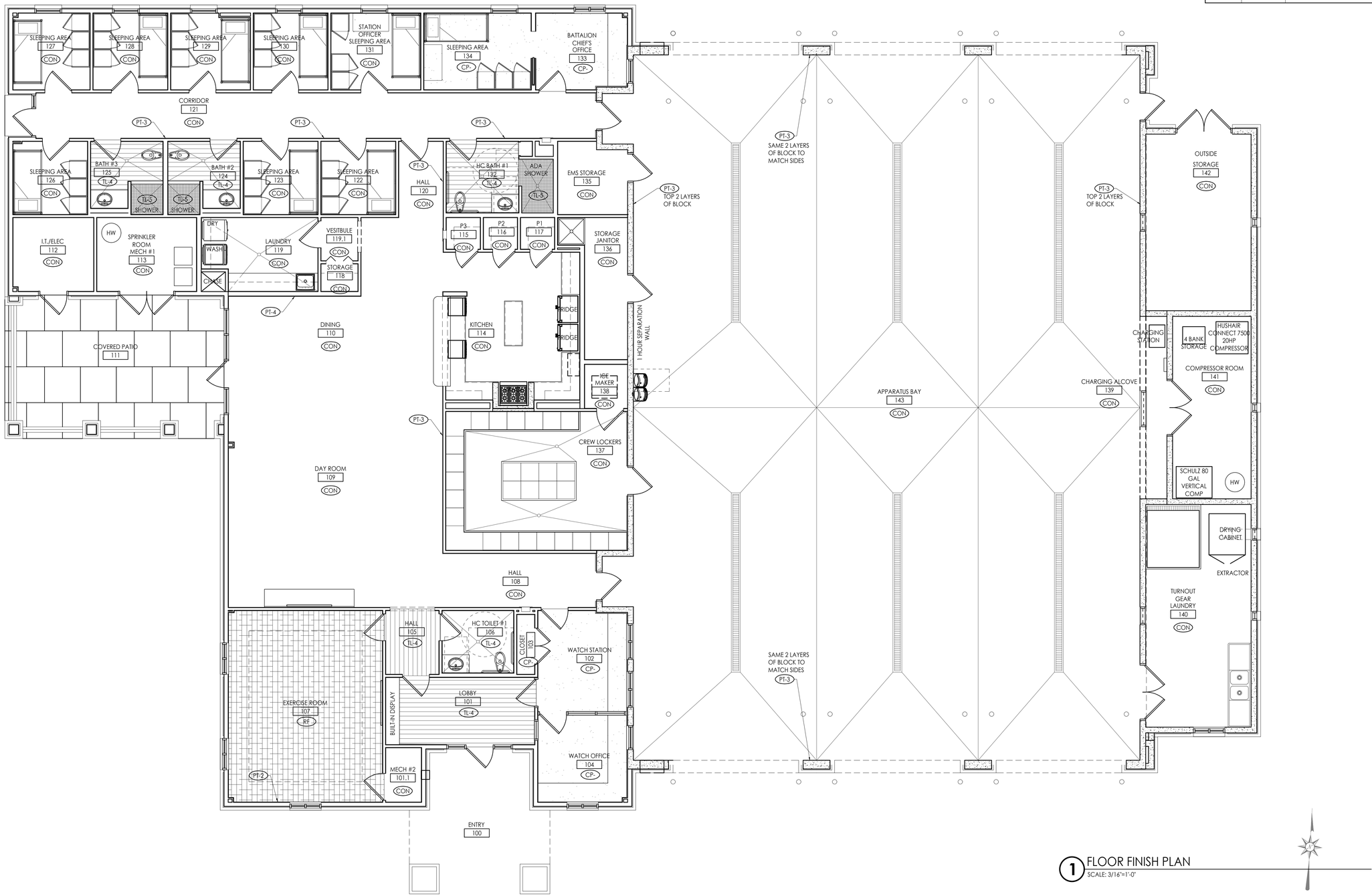
SHEET TITLE:
DETAIL FLOOR PLAN

SHEET NO:
A701

NOT ISSUED FOR CONSTRUCTION

MATERIAL LEGEND

TAG		DESCRIPTION
TL		TILE; SEE FINISH SCHEDULE FOR DETAILS
CONC		CONCRETE, CLEANED & SEALED
CP		CARPET; SEE FINISH SCHEDULE FOR DETAILS
RF		RUBBER FLOORING; SEE FINISH SCHEDULE FOR DETAILS



1 FLOOR FINISH PLAN
SCALE: 3/16"=1'-0"

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08.16.2018	50% REVIEW
08.22.2018	CLIENT REVIEW
09.27.18	FOR BID

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KIPPARD A. OLDHAM
CERTIFICATE NO. 000000
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FAYETTE CO. FIRE STATION NO. 4

278 MCELROY ROAD
FAYETTEVILLE, GEORGIA

Prepared for
FAYETTE CO. FIRE DEPT

COMMISSION NO:
1748.00

SHEET TITLE:
FINISH PLAN

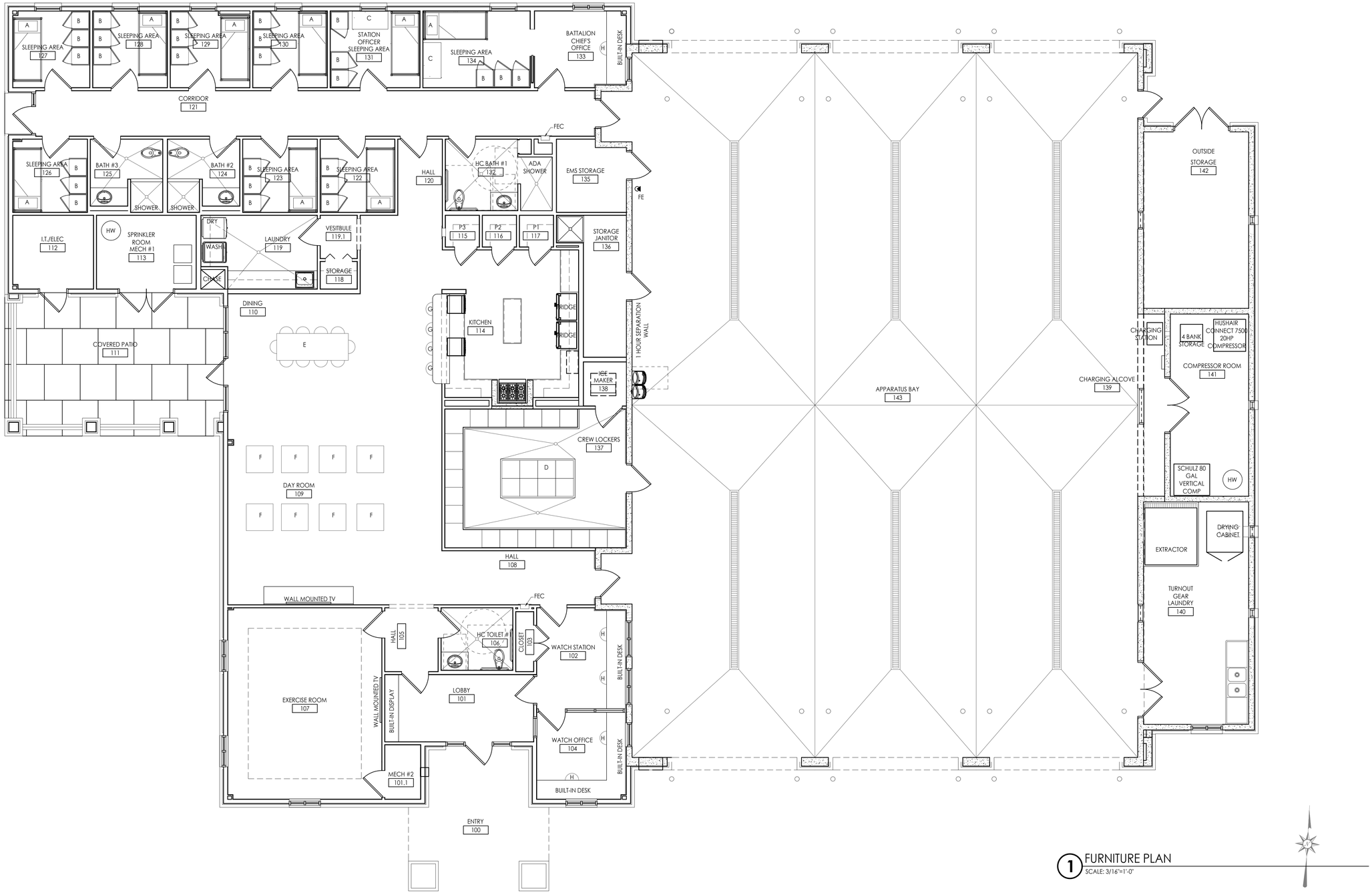
SHEET NO:
A702

NOT ISSUED FOR CONSTRUCTION

FURNITURE LEGEND

TAG	DESCRIPTION	TAG	DESCRIPTION	TAG	DESCRIPTION
A	NORIX - TITAN XL TWIN BED W/ UNDER-BED STORAGE	D	REPUBLIC STORAGE SYSTEMS TURNOUT GEAR LOCKERS: 16 RED BARON; 24x24x72	G	BAR STOOLS
B	NORIX - TITAN SINGLE WARDROBE	E	DINING TABLE W/ CHAIRS	H	OFFICE CHAIRS
C	NORIX - TITAN 48" PEDESTAL DESK	F	DAY ROOM RECLINERS		

** NOTE: BUNK ROOM FURNITURE BY OWNER



1 FURNITURE PLAN
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SHEET TITLE:
FURNITURE PLAN

SHEET NO:
A703

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FINISH SCHEDULE

		FLOORS				WALLS		
ROOM NO.	ROOM NAME	FLOOR	GROUT	BASE	COMMENTS	WALLS	GROUT	COMMENTS
100	ENTRY	-	-	-				
101	LOBBY	TL-4	TG-1		SEE A702 FOR INSTALLATION	PT-2		SEE INTERIORS A709 FOR MILLWORK DTLS
101.1	MECH #2	CONC		RB-1		PT-1		
102	WATCH STATION	CP-		RB-1		PT-1		
103	CLOSET	CP-		RB-1		PT-1		
104	WATCH OFFICE	CP-		RB-1		PT-1		
105	HALL #1	TL-4	TG-1			PT-1		
106	HC TOILET #1	TL-4	TG-1		SEE A702 FOR INSTALLATION	TL-2, TL-3 ; PT-6	TG-1	SEE A707 FOR TILE INSTALLATION
107	EXERCISE ROOM	RF-1		RB-1		PT-1 ; PT-2		SEE A702 FOR ACCENT WALL LOCATION
108	HALL #2	CONC		RB-1		PT-1		
109	DAY ROOM	CONC		RB-1		PT-1, PT-3, PT-4		SEE A702 FOR ACCENT COLOR LOCATION
110	DINING	CONC		RB-1		PT-1, PT-3, PT-4		SEE A702 FOR ACCENT COLOR LOCATION
111	COVERED PATIO	-	-	-		-		
112	I.T./ELEC	CONC		-		PT-1		
113	SPRINKLER ROOM/MECH #1	CONC		-		PT-1		
114	KITCHEN	CONC		RB-1		PT-2 ; TL-1	TG-2	SEE A705 INTERIORS FOR DTLS
115	PANTRY #1	CONC		RB-1		PT-1		
116	PANTRY #2	CONC		RB-1		PT-1		
117	PANTRY #3	CONC		RB-1		PT-1		
118	STORAGE	CONC		RB-1		PT-1		
119	LAUNDRY	CONC		RB-1		PT-1		SEE A706 FOR DETAILS
119.1	VESTIBULE	CONC		RB-1		PT-1		
120	HALL #3	CONC		RB-1		PT-1		
121	CORRIDOR	CONC		RB-1		PT-1 ; PT-3		SEE A702 FOR ACCENT WALL LOCATIONS
122	SLEEPING AREA #1	CONC		RB-1		PT-1		
123	SLEEPING AREA #2	CONC		RB-1		PT-1		
124	BATH #2	TL-4 ; TL-5	TG-1		SEE A702 FOR INSTALLATION	TL-2, TL-3 ; PT-6	TG-1	SEE A708 INTERIORS FOR DETAILS
125	BATH #3	TL-4 ; TL-5	TG-1		SEE A702 FOR INSTALLATION	TL-2, TL-3 ; PT-6	TG-1	SEE A708 INTERIORS FOR DETAILS
126	SLEEPING AREA #3	CONC		RB-1		PT-1		
127	SLEEPING AREA #4	CONC		RB-1		PT-1		
128	SLEEPING AREA #5	CONC		RB-1		PT-1		
129	SLEEPING AREA #6	CONC		RB-1		PT-1		
130	SLEEPING AREA #7	CONC		RB-1		PT-1		
131	STATION OFFICER SLEEPING	CONC		RB-1		PT-1		
132	HC BATH #1	TL-4 ; TL-5	TG-1		SEE A702 FOR INSTALLATION	TL-2, TL-3 ; PT-6	TG-1	SEE A707 INTERIORS FOR DETAILS
133	BATTALION CHIEF'S OFFICE	CP-		RB-1		PT-1		
134	BATT CHEIF'S SLEEPING AREA	CP-		RB-1		PT-1		
135	EMS	CONC		RB-2		PT-1		
136	STORAGE JANITOR	CONC		RB-2		PT-1		
137	CREW LOCKERS	CONC		RB-2		PT-1		
138	ICE MAKER	CONC		RB-2		PT-1		
139	CHARGING ALCOVE	CONC		RB-2		PT-1		
140	TURNOUT GEAR LAUNDRY	CONC		RB-2		PT-1		
141	COMPRESSOR ROOM	CONC		RB-2		PT-1		
142	OUTSIDE STORAGE	CONC				PT-1		
143	APPARATUS BAY	CONC		RB-2		PT-1		SEE A702 FOR ACCENT WALL LOCATIONS

* SEE FINISH PLANS AND INTERIOR ELEVATIONS FOR LOCATIONS OF ACCENT WALLS

INTERIOR FINISH LEGEND

KEYNOTE	MATERIAL	MANUFACTURER	COLOR/ FINISH	DESCRIPTION AND NOTES	CONTACT
WALL FINISHES					
PT - 1	PAINT	SHERWIN WILLIAMS	SW7690 TOWNHALL TAN	GENERAL PAINT	1.800.4.SHERWIN
PT - 2	PAINT	SHERWIN WILLIAMS	SW7522 MEADOWLARK	ACCENT: SEE INTERIOR PLAN & ELEVATIONS FOR LOCATIONS	1.800.4.SHERWIN
PT - 3	PAINT	SHERWIN WILLIAMS	SW7593 RUSTIC RED	ACCENT: SEE INTERIOR PLAN & ELEVATIONS FOR LOCATIONS	1.800.4.SHERWIN
PT - 4	PAINT	SHERWIN WILLIAMS	SW6230 RAINSTORM	ACCENT: SEE INTERIOR PLAN & ELEVATIONS FOR LOCATIONS	1.800.4.SHERWIN
PT - 5	PAINT	SHERWIN WILLIAMS	NOT USED		1.800.4.SHERWIN
PT - 6	PAINT	SHERWIN WILLIAMS	SW7004 SNOWBOUND	RESTROOMS	1.800.4.SHERWIN
PT - 7	PAINT	SHERWIN WILLIAMS	SW7020 BLACK FOX	MILLWORK @ LAUNDRY, KITCHEN; SEE INTERIOR ELEVATIONS	1.800.4.SHERWIN
TL - 1	CERAMIC TILE	TRADITIONS IN TILE	GLOSS LIGHT SMOKE 0042	4 ¼ x 8 ½ GLOSS SUBWAY TILE KITCHEN BACKSPLASH	BERNICE PHELPS 678-416-8681
TL - 2	CERAMIC TILE	TRADITIONS IN TILE	TERRA COTTA BRIGHT U795	3 x 6 GLOSS SUBWAY TILE RESTROOM WALL	BERNICE PHELPS 678-416-8681
TL - 3	CERAMIC TILE	TRADITIONS IN TILE	TAUPE BRIGHT U789	3 x 6 GLOSS SUBWAY TILE RESTROOM WALL ACCENT	BERNICE PHELPS 678-416-8681
TL - 5	PORCELAIN TILE	TRADITIONS IN TILE	LIGHT SMOKE SPECKLED A04	2x1 BRICKWORK MOSAIC TILE SHOWER WALL	BERNICE PHELPS 678-416-8681
TG - 1	TILE GROUT	TRADITIONS IN TILE	TBD	GENERAL GROUT	BERNICE PHELPS 678-416-8681
TG - 2	TILE GROUT	TRADITIONS IN TILE	TBD	KITCHEN BACKSPLASH GROUT	BERNICE PHELPS 678-416-8681
FLOOR FINISHES					
CP - 1	CARPET TILE	SHAW CONTRACT GROUP	STYLE: HYBRID 59580 ; 64855 MOSAIC	24x24 TILE : MONOLITHIC INSTALLATION	ALLISON MAIR 404.210.3776
RF - 1	RESILIENT FLOORING	JOHNSONITE	COLOR TBD	24x24 RUBBER INTERLOCKING TILE FLOORING; WELLNESS ROOM 112	1.800.899.8916
TL - 4	PORCELAIN TILE	TRADITIONS IN TILE	SORRELL; GINGER	6x24 WOOD GRAIN	BERNICE PHELPS 678-416-8681
WALL BASE FINISHES					
RB - 1	RUBBER BASE	JOHNSONITE	44 DARK BROWN	4 1/4" REVEAL PROFILE: GENERAL BASE	1.800.899.8916
RB - 2	RUBBER BASE	JOHNSONITE	44 DARK BROWN	6" TRADITIONAL: APPARATUS BAY	1.800.899.8916
INTERIOR DOORS, WINDOWS AND TRIM					
PT - 8	PAINT	SHERWIN WILLIAMS	TBD	DOOR FRAME PAINT: SEMI-GLOSS [WILL MATCH RB-1 COLOR]	1.800.4.SHERWIN
ST - 1	STAIN	SHERWIN WILLIAMS	SW3115-B BISTRO WALNUT	DOOR & LOBBY STAIN	1.800.4.SHERWIN
PT - 3	PAINT	SHERWIN WILLIAMS	SW7593 RUSTIC RED	METAL DOOR PAINT	1.800.4.SHERWIN
CEILING FINISHES					
PT - 9	PAINT	SHERWIN WILLIAMS	SW7006 EXTRA WHITE	CEILING PAINT	1.800.4.SHERWIN
CT - 1	2x2 TILE	ARMSTRONG	WHITE	CEILING TILE IN SUSPENSION SYSTEM; REF. SPEC.	1.877.ARMSTRONG
MILLWORK CABINET FINISHES					
PL - 1	PLASTIC LAMINATE	WILSONART	7949K-18 ASIAN NIGHT; LINEARITY FINISH	CABINETRY @ KITCHEN, LAUNDRY, & RESTROOMS	
MILLWORK COUNTER FINISHES					
SS - 1	SOLID SURFACE	CORIAN QUARTZ	ANTIQUE PEARL	COUNTERTOP @ KITCHEN	JASON DEMARCHI 770.298.2076
SS - 2	SOLID SURFACE	CORIAN	SAVANNAH	COUNTERTOP @ RESTROOMS, LAUNDRY	JASON DEMARCHI 770.298.2076
ALTERNATES					
ALT-1	PLASTIC LAMINATE	WILSONART	STANDARD LAMINATE: 4946-38 NATURAL COTTON	COUNTERTOP @ LAUNDRY	

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FAYETTE CO.
FIRE STATION NO. 4

278 MCELROY ROAD
FAYETTEVILLE, GEORGIA

Prepared for
FAYETTE CO.
FIRE DEPT

COMMISSION NO:
1748.00

SHEET TITLE:
INTERIOR SCHEDULES

SHEET NO:
A704

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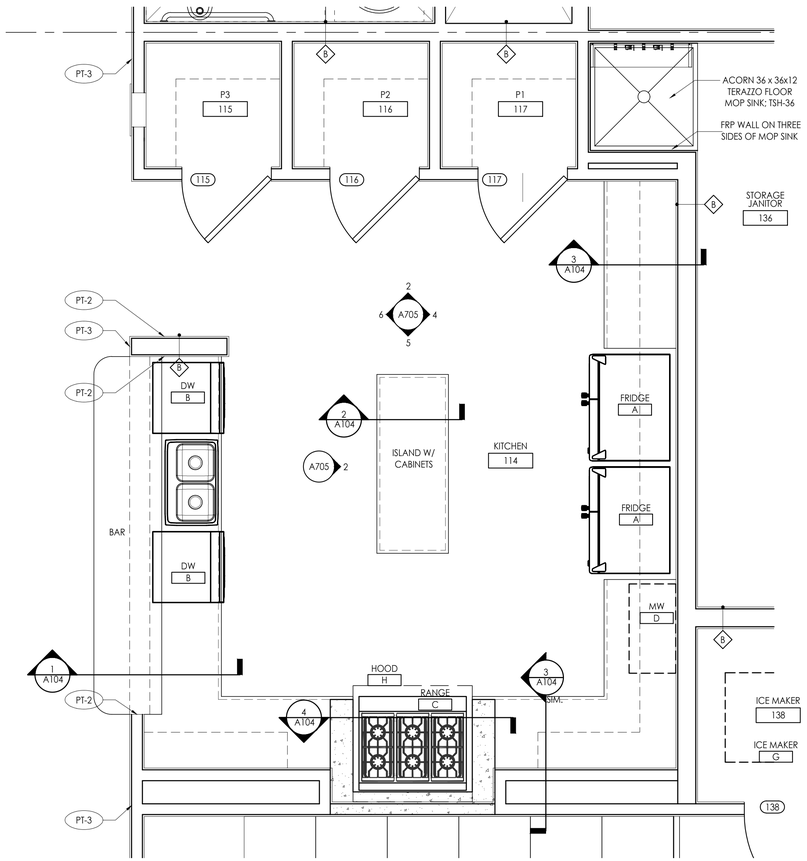

1 KITCHEN DETAIL PLAN
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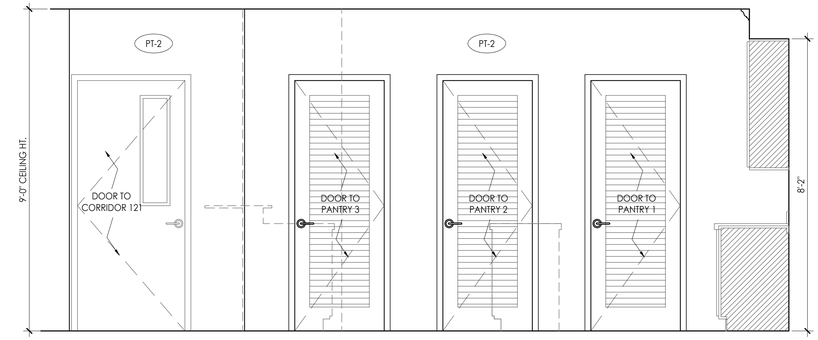

2 KITCHEN INTERIOR ELEVATION
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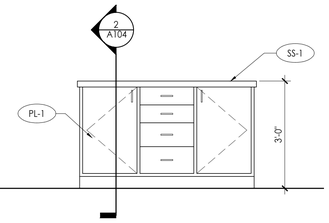

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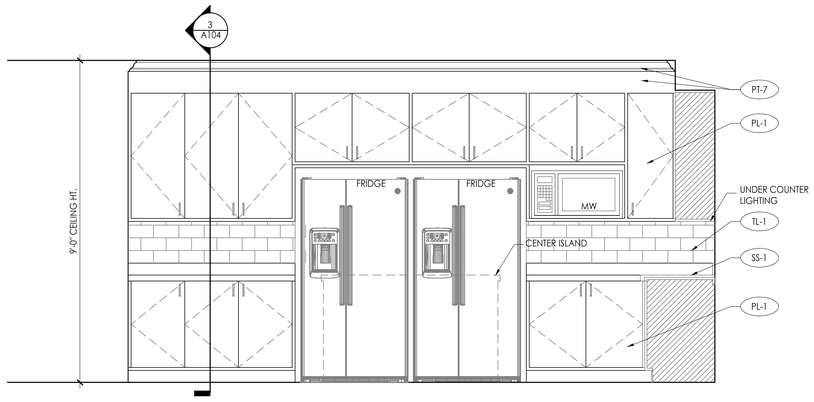

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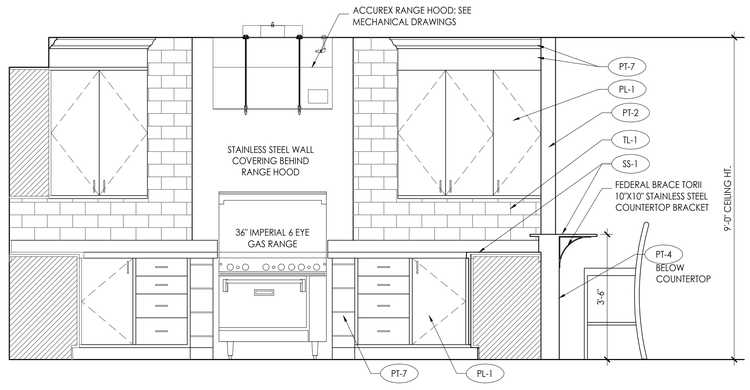

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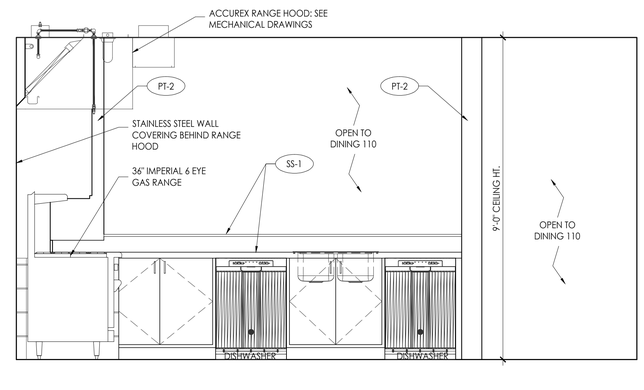

6 KITCHEN INTERIOR ELEVATION
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SHEET TITLE:
INTERIOR ELEVATIONS

SHEET NO:
A705

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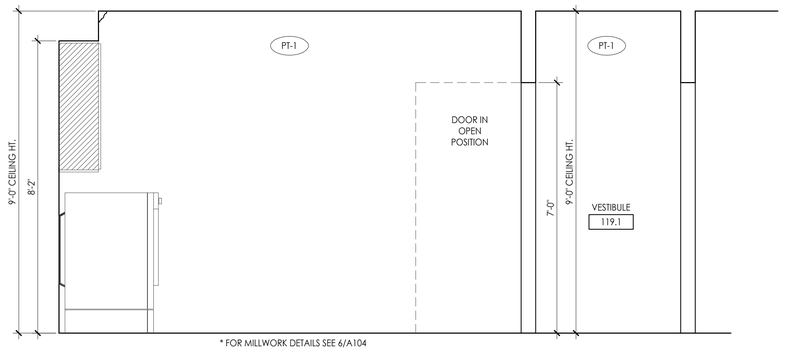

1 LAUNDRY ELEVATION
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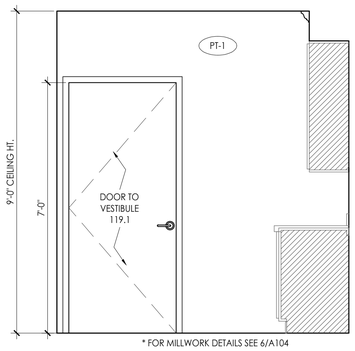

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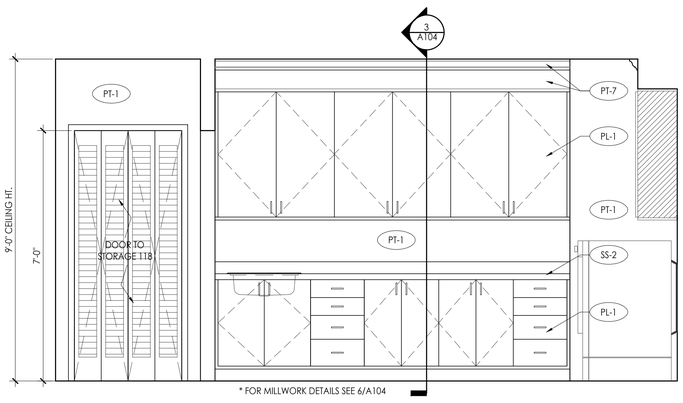

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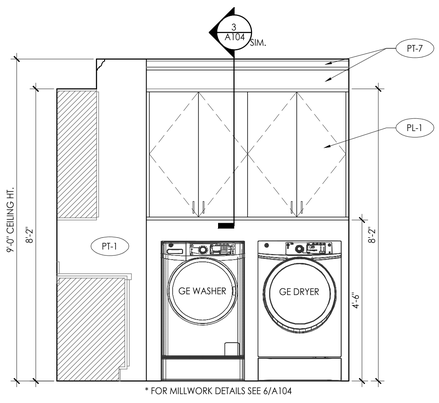

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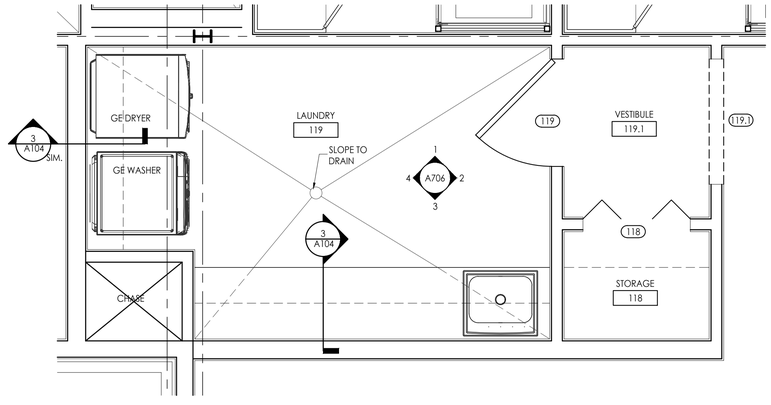

5 LAUNDRY DETAIL PLAN
SCALE: 1/2"=1'-0"

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FIRE DEPT

COMMISSION NO:
1748.00

SHEET TITLE:
INTERIOR ELEVATIONS

SHEET NO:
A706

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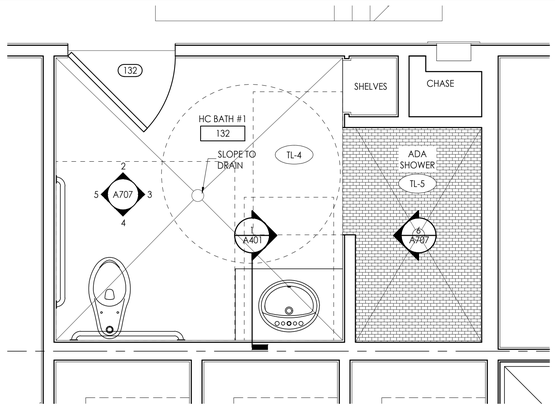

1 HC BATH #1 DETAIL PLAN
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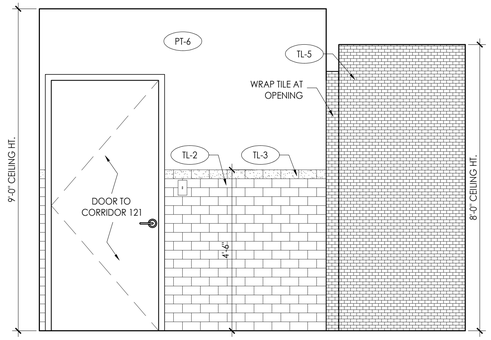

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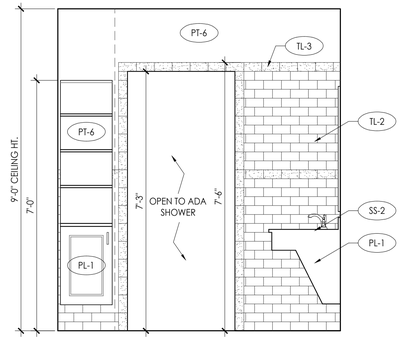

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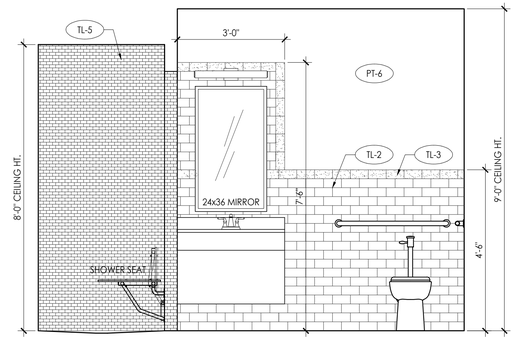

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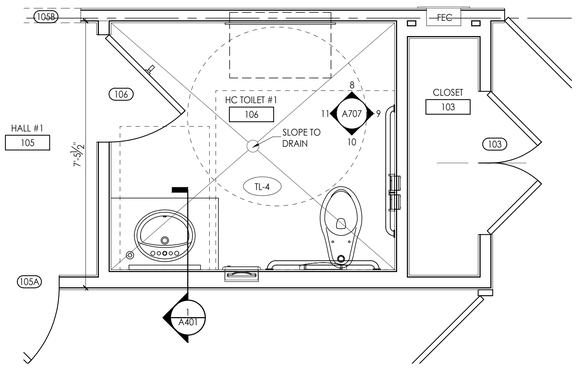
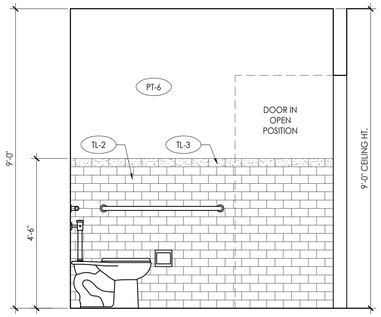


7 HC TOILET #1 DETAIL PLAN
SCALE: 1/2"=1'-0"



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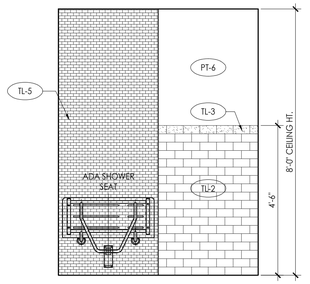

6 SHOWER ELEVATION
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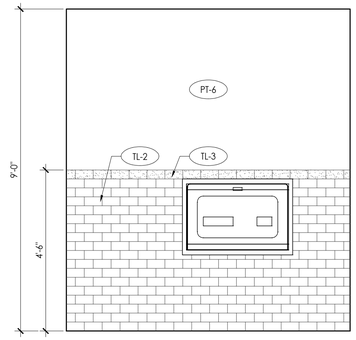

8 HC TOILET #1 ELEVATION
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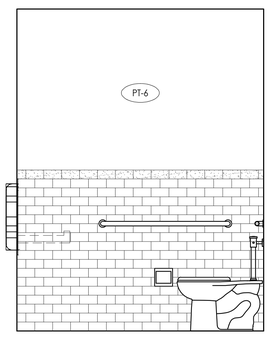
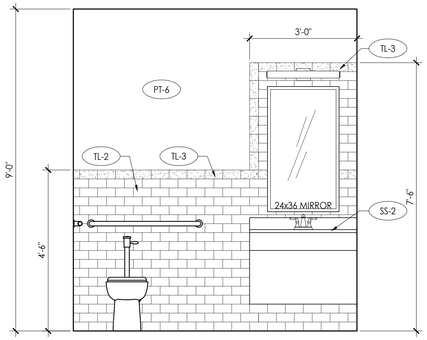
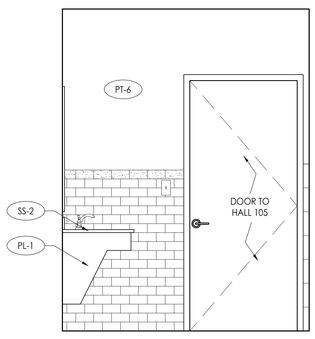


9 HC TOILET #1 ELEVATION
SCALE: 1/2"=1'-0"



10 HC TOILET #1 ELEVATION
SCALE: 1/2"=1'-0"



11 HC TOILET #1 ELEVATION
SCALE: 1/2"=1'-0"

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08.16.2018	50% REVIEW
08.22.2018	CLIENT REVIEW
09.27.18	FOR BID

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FAYETTE CO.
FIRE STATION NO. 4

278 MCELROY ROAD
FAYETTEVILLE, GEORGIA

Prepared for
FAYETTE CO.
FIRE DEPT

COMMISSION NO:
1748.00

SHEET TITLE:
INTERIOR ELEVATIONS

SHEET NO:
A707

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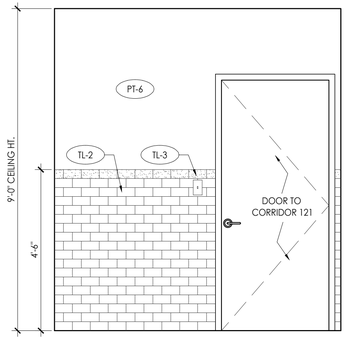
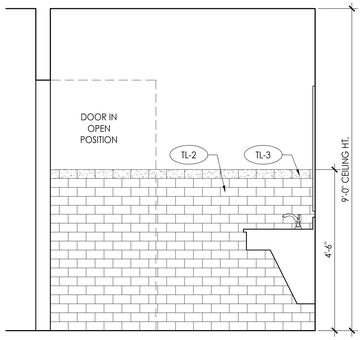
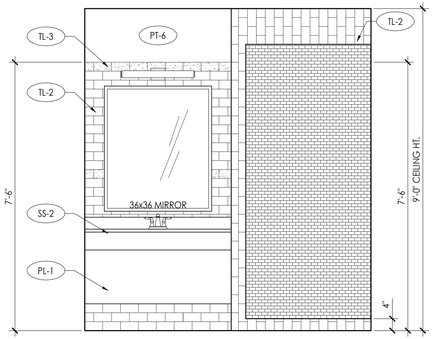


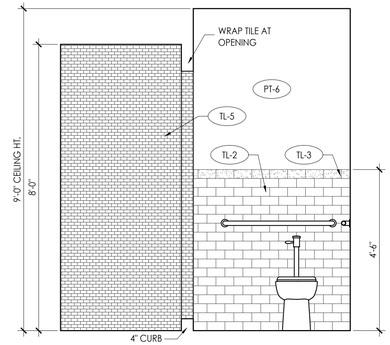
1 BATH #2 INTERIOR ELEVATION
SCALE: 1/2"=1'-0"



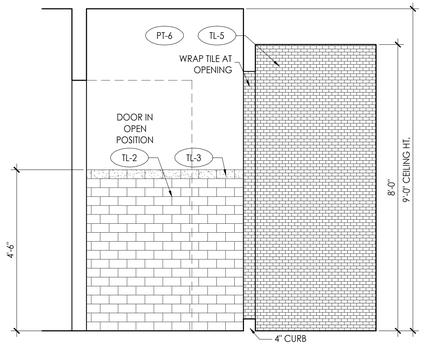
2 BATH #2 INTERIOR ELEVATION
SCALE: 1/2"=1'-0"



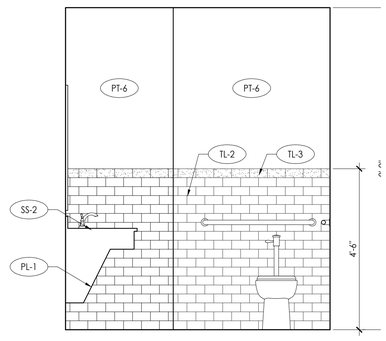
3 BATH #2 INTERIOR ELEVATION
SCALE: 1/2"=1'-0"



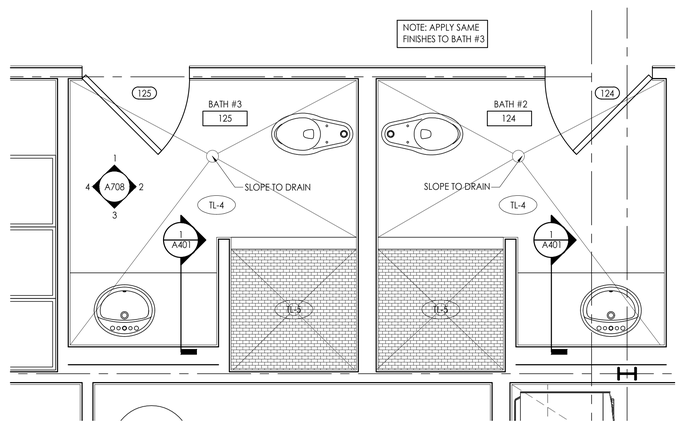
4 BATH #2 INTERIOR ELEVATION
SCALE: 1/2"=1'-0"



5 BATH #2 INTERIOR ELEVATION
SCALE: 1/2"=1'-0"



6 BATH #2 INTERIOR ELEVATION
SCALE: 1/2"=1'-0"



7 BATH #2 / #3 DETAIL PLAN
SCALE: 1/2"=1'-0"

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278 MCELROY ROAD
FAYETTEVILLE, GEORGIA

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FAYETTE CO.
FIRE DEPT

COMMISSION NO:
1748.00

SHEET TITLE:
INTERIOR ELEVATIONS

SHEET NO:
A708

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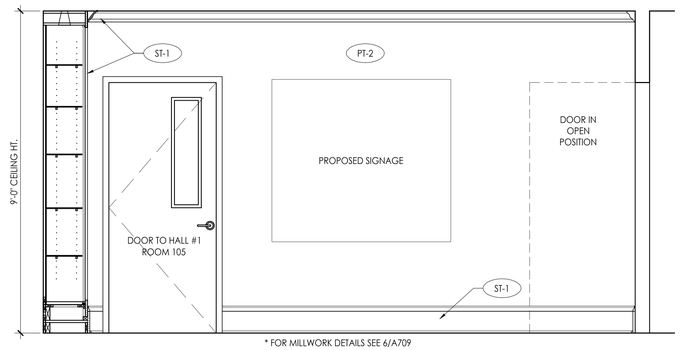
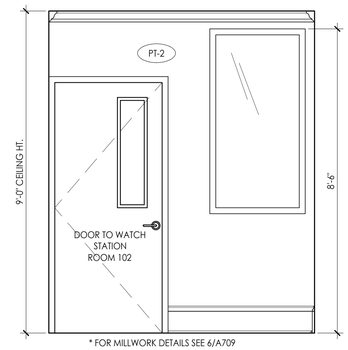
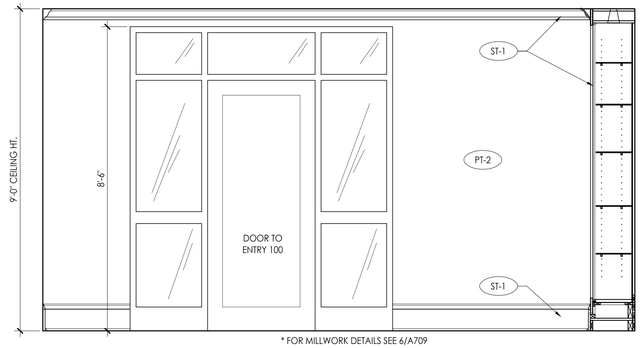


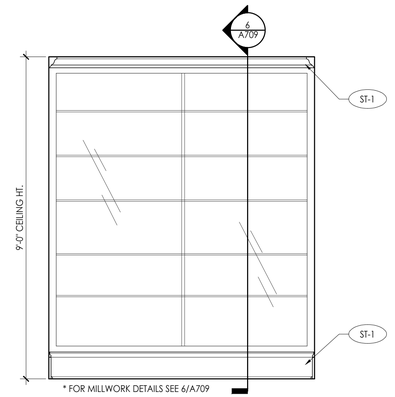
1 LOBBY INTERIOR ELEVATION
SCALE: 1/2"=1'-0"



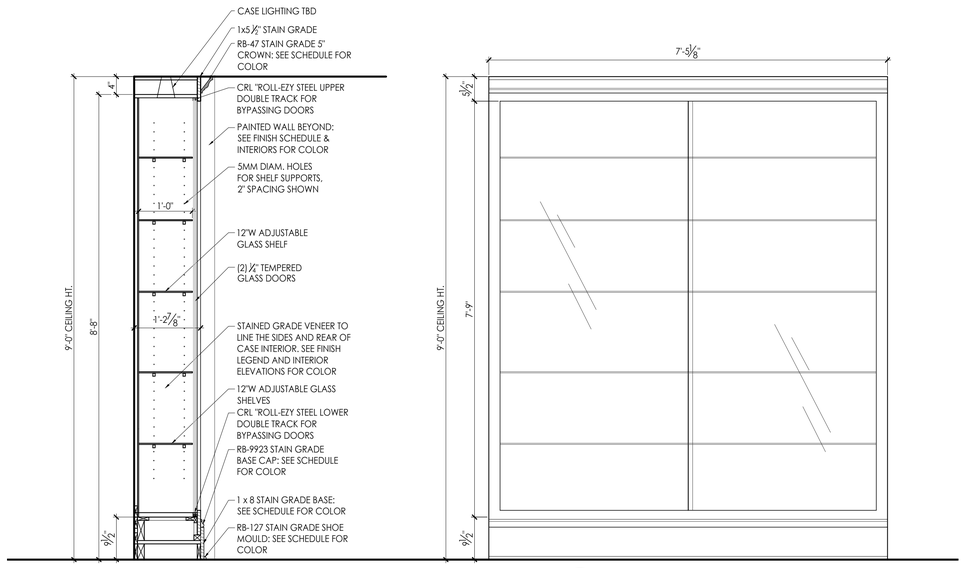
2 LOBBY INTERIOR ELEVATION
SCALE: 1/2"=1'-0"



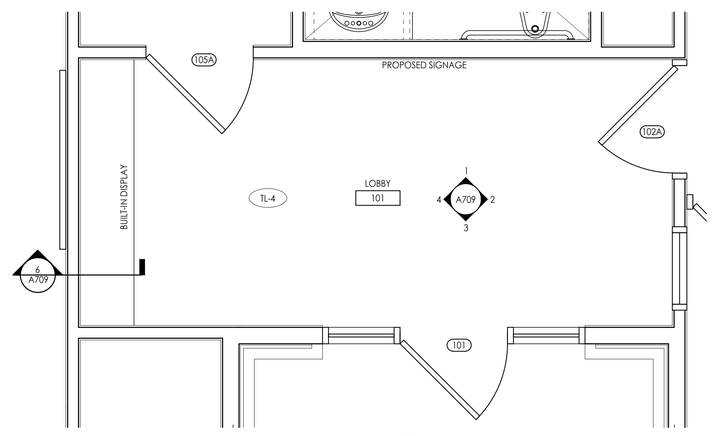
3 LOBBY INTERIOR ELEVATION
SCALE: 1/2"=1'-0"



4 LOBBY INTERIOR ELEVATION
SCALE: 1/2"=1'-0"



6 LOBBY MILLWORK DETAIL
SCALE: 3/4"=1'-0"



5 LOBBY DETAIL PLAN
SCALE: 1/2"=1'-0"

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FAYETTE CO.
FIRE STATION NO. 4

278 MCELROY ROAD
FAYETTEVILLE, GEORGIA

Prepared for
FAYETTE CO.
FIRE DEPT

COMMISSION NO:
1748.00

SHEET TITLE:
INTERIOR ELEVATIONS

SHEET NO:
A709

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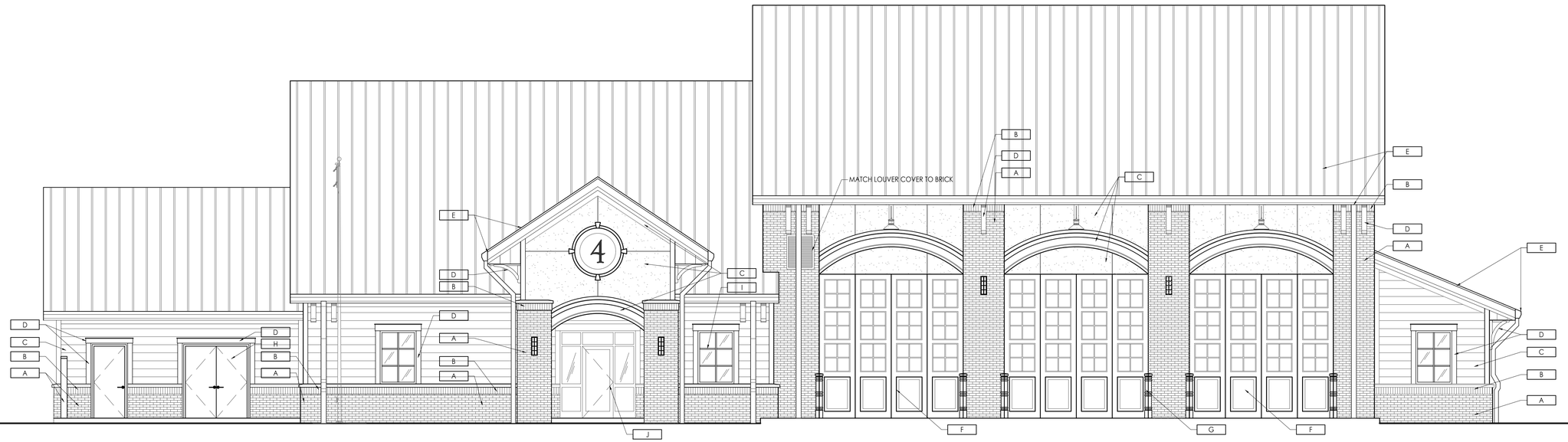
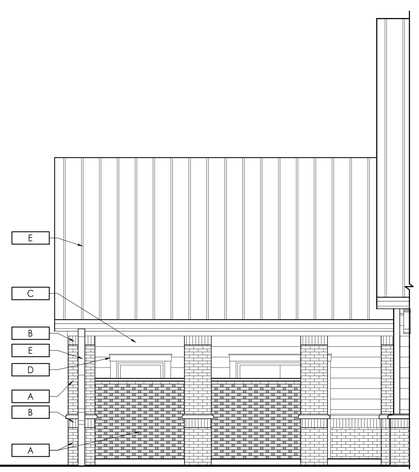
EXTERIOR FINISH LEGEND

KEYNOTE	MATERIAL	MANUFACTURER	COLOR/ FINISH	DESCRIPTION AND NOTES	CONTACT
A	MODULAR BRICK	PINE HALL BRICK	SPEKTRA RED W/C L/R	WATERTABLE & COLUMNS	NG BRICK: KEVIN DANIELL 404.597.2405
B	MODULAR BRICK	PINE HALL BRICK	SPEKTRA OATMEAL W/C	ROWLOCK & SOLDIER COURSE ACCENT BRICK	NG BRICK: KEVIN DANIELL 404.597.2405
C	PAINT	SHERWIN WILLIAMS	SW7690 TOWNHALL TAN	GENERAL PAINT	1.800.4.SHERWIN
D	PAINT	SHERWIN WILLIAMS	SW7522 MEADOWLARK	BRACKET & TRIM PAINT	1.800.4.SHERWIN
E	PEMB	BOD: CHIEF BUILDINGS	PARCHMENT (PA)	ROOF, DOWNSPOUT, GUTTER, TRIM	JAMIE MOZINGO 704.909.9433
F	MANUFACTURED DOORS	DOOR ENGINEERING	COLOR TBD	FOUR FOLD BAY DOORS	BRYAN WALLACE 770.380.0489
G	STEEL PIPE	TBD	COLOR TBD	STEEL PIPE BOLLARDS W/ DECORATIVE PLASTIC COVER	TBD
H	PAINT	SHERWIN WILLIAMS	SW7593 RUSTIC RED	METAL DOORS	1.800.4.SHERWIN
I	ALUMINUM WINDOW	GERKIN WINDOWS	BRONZE	ALUMINUM WINDOW	PENN ROGERS 770.891.8028
J	STOREFRONT	SEE SPECIFICATIONS	BRONZE (MATCH EXTERIOR WINDOWS)	ALUMINUM STOREFRONT	TBD

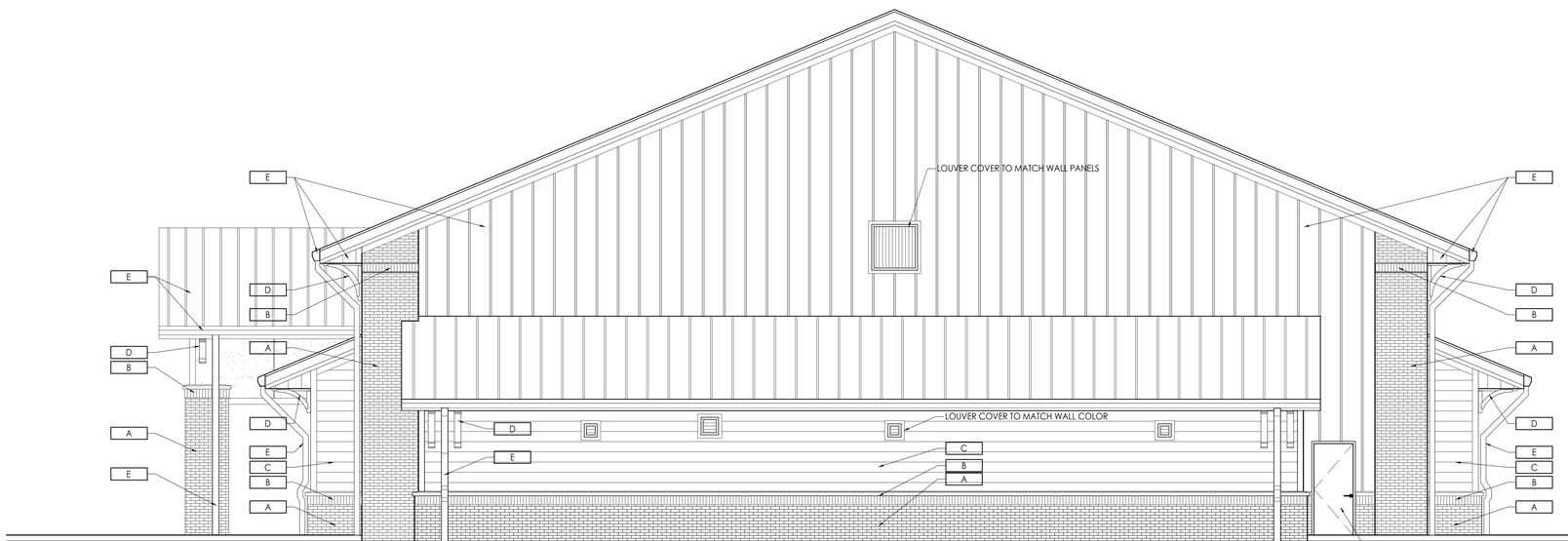
* BRICK MORTAR TO MATCH BRICK



1 FRONT ELEVATION
SCALE: 3/16"=1'-0"



2 PATIO FRONT ELEVATION
SCALE: 3/16"=1'-0"



3 RIGHT SIDE ELEVATION
SCALE: 3/16"=1'-0"

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FAYETTE CO. FIRE STATION NO. 4

278 MCELROY ROAD
FAYETTEVILLE, GEORGIA

Prepared for
FAYETTE CO. FIRE DEPT

COMMISSION NO:
1748.00

SHEET TITLE:
EXTERIOR FINISHES

SHEET NO:
A710

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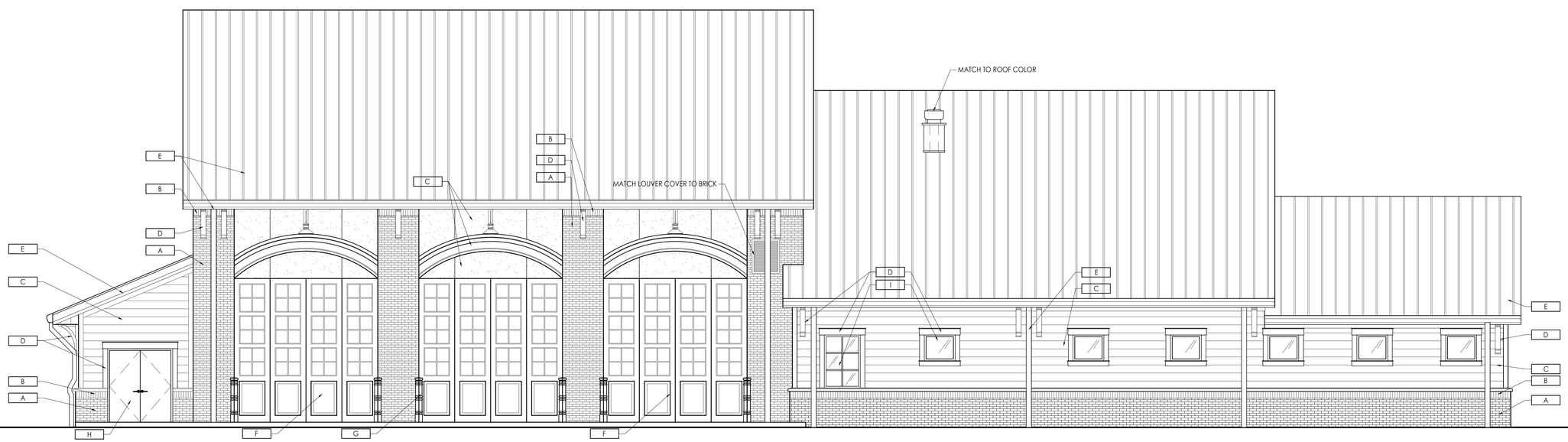
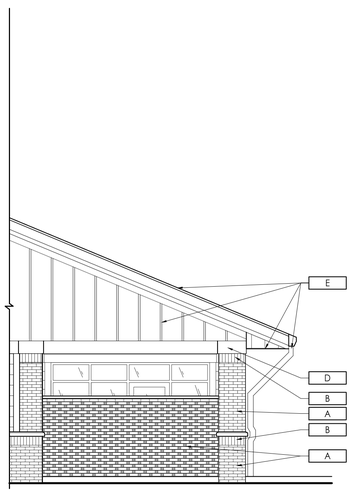
EXTERIOR FINISH LEGEND					
KEYNOTE	MATERIAL	MANUFACTURER	COLOR/ FINISH	DESCRIPTION AND NOTES	CONTACT
A	MODULAR BRICK	PINE HALL BRICK	SPEKTRA RED W/C L/R	WATERTABLE & COLUMNS	NG BRICK: KEVIN DANIELL 404.597.2405
B	MODULAR BRICK	PINE HALL BRICK	SPEKTRA OATMEAL W/C	ROWLOCK & SOLDIER COURSE ACCENT BRICK	NG BRICK: KEVIN DANIELL 404.597.2405
C	PAINT	SHERWIN WILLIAMS	SW7690 TOWNHALL TAN	GENERAL PAINT	1.800.4.SHERWIN
D	PAINT	SHERWIN WILLIAMS	SW7522 MEADOWLARK	BRACKET & TRIM PAINT	1.800.4.SHERWIN
E	PEMB	BOD: CHIEF BUILDINGS	PARCHMENT (PA)	ROOF, DOWNSPOUT, GUTTER, TRIM	JAMIE MOZINGO 704.909.9433
F	MANUFACTURED DOORS	DOOR ENGINEERING	COLOR TBD	FOUR FOLD BAY DOORS	BRYAN WALLACE 770.380.0489
G	STEEL PIPE	TBD	COLOR TBD	STEEL PIPE BOLLARDS W/ DECORATIVE PLASTIC COVER	TBD
H	PAINT	SHERWIN WILLIAMS	SW7593 RUSTIC RED	METAL DOORS	1.800.4.SHERWIN
I	ALUMINUM WINDOW	GERKIN WINDOWS	BRONZE	ALUMINUM WINDOW	PENN ROGERS 770.891.8028
J	STOREFRONT	SEE SPECIFICATIONS	BRONZE (MATCH EXTERIOR WINDOWS)	ALUMINUM STOREFRONT	TBD

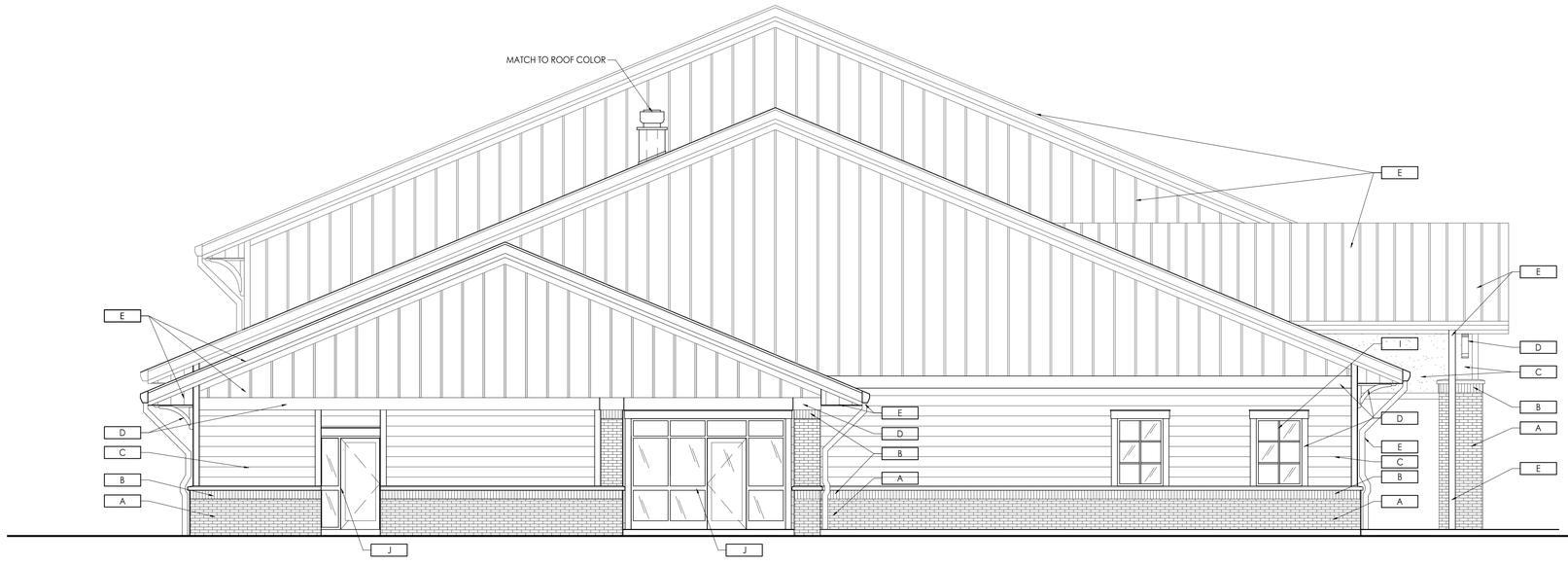
* BRICK MORTAR TO MATCH BRICK



1 REAR ELEVATION
SCALE: 3/16"=1'-0"



2 LEFT SIDE PATIO ELEVATION
SCALE: 3/16"=1'-0"



3 LEFT SIDE ELEVATION
SCALE: 3/16"=1'-0"

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FAYETTE CO. FIRE STATION NO. 4

278 MCELROY ROAD
FAYETTEVILLE, GEORGIA

Prepared for
FAYETTE CO. FIRE DEPT

COMMISSION NO:
1748.00

SHEET TITLE:
EXTERIOR FINISHES

SHEET NO:
A711

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DESIGN CRITERIA:

1. BUILDING CODE - INTERNATIONAL BUILDING CODE 2012.

2. DESIGN DEAD LOADS:
   A. AS PROVIDED BY METAL BUILDING MANUFACTURER
   B. ASSUMED FOR PRELIMINARY DESIGN = 10 PSF TOP CHORD
      = 5 PSF BOTTOM CHORD

3. DESIGN LIVE LOADS:
   A. AS PROVIDED BY METAL BUILDING MANUFACTURER
   B. ASSUMED FOR PRELIMINARY DESIGN = 20 PSF

4. WIND LOADS:
   A. AS PROVIDED BY METAL BUILDING MANUFACTURER

5. EARTHQUAKE LOADS:
   A. AS PROVIDED BY METAL BUILDING MANUFACTURER

6. SNOW LOADS:
   A. AS PROVIDED BY METAL BUILDING MANUFACTURER

MISCELLANEOUS:

1. CONTRACTOR IS RESPONSIBLE FOR COORDINATING PERTINENT ASPECTS OF ALL DISCIPLINES INTO THEIR SHOP DRAWINGS AND WORK, AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR OMISSIONS.

2. NO OPENINGS OR MODIFICATIONS SHALL BE MADE IN OR TO ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.

3. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.

4. OPENINGS 1'-4" OR LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH OPENINGS.

5. DO NOT SCALE THESE DRAWINGS: USE DIMENSIONS. FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS, SEE ARCHITECTURAL DRAWINGS.

6. THE CONTRACTOR SHALL INFORM THE FOUNDATION ENGINEER, IN WRITING, OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY OF SUCH DEVIATION BY THE PROFESSIONAL OF RECORD, REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC. UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE PROFESSIONAL OF RECORD OF SUCH DEVIATION AT THE TIME OF SUBMISSION AND THE ARCHITECT HAS GIVEN THE WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.

7. WHERE A SECTION/DETAIL IS CUT ON THE PLAN, IT IS ASSUMED/UNDERSTOOD TO BE REPRESENTATIVE OF ALL LIKE OR SIMILAR CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.

8. AT ALL TIMES THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF PERSONS AND PROPERTY. THE ENGINEER'S PRESENCE AT THE JOB SITE OR REVIEW OF WORK DOES NOT IMPLY CONFIRMATION OF THE ADEQUACY OF THE CONTRACTOR'S MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH OSHA REGULATIONS.

9. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES.

10. THE CONTRACTOR SHALL NOTIFY, IN WRITING, THE STRUCTURAL ENGINEER OF RECORD OF CONDITIONS ENCOUNTERED IN THE FIELD WHICH ARE CONTRADICTORY TO THOSE SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS.

11. STRUCTURAL CONTRACT DOCUMENTS SHALL NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR ANY MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR OR SUBCONTRACTOR.

12. REFERENCE TO STANDARD SPECIFICATIONS OR ANY TECHNICAL SOCIETY, ORGANIZATION OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES SHALL MEAN THE LATEST STANDARD, CODE SPECIFICATION OR TENTATIVE SPECIFICATION ADOPTED AND PUBLISHED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.

SUBMITTALS:

1. CONTRACTOR SHALL SUBMIT A SCHEDULE OF SHOP DRAWING SUBMITTAL DATES AT LEAST 30 DAYS PRIOR TO FIRST SUBMITTAL. FAILURE TO SUBMIT DRAWINGS ON DESIGNATED DATES MAY IMPACT REVIEW SCHEDULE.

2. ANY MATERIALS OR PRODUCTS SUBMITTED FOR APPROVAL THAT ARE DIFFERENT FROM THE MATERIAL OR PRODUCTS SPECIFIED IN THE STRUCTURAL CONTRACT DOCUMENTS WILL BE CONSIDERED ONLY IF THE FOLLOWING CRITERIA ARE SATISFIED:
   A. A COST SAVINGS TO THE OWNER IS DOCUMENTED AND SUBMITTED WITH THE REQUEST.
   B. THE MATERIAL OR PRODUCT HAS BEEN APPROVED BY THE ICC-ES, AND THE ICC-ES REPORT IS SUBMITTED WITH THE REQUEST. SUBMITTALS NOT SATISFYING THE ABOVE CRITERIA WILL NOT BE CONSIDERED.

3. REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER OF RECORD DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO THE STRUCTURAL ENGINEER OF RECORD. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS AND DIMENSIONS SPECIFIED IN METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION. SEE SPECIFIC PROVISIONS IN THE CONTRACT DOCUMENT DEALING WITH THE APPROPRIATE DESIGN RESPONSIBILITIES OF CONTRACTORS, SUBCONTRACTORS AND CONTRACT SUPPLIERS.

4. THE USE OF REPRODUCTIONS OF THESE CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN AS CORRECT AND OBLIGATES HIM TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING FROM ANY ERRORS THAT MAY OCCUR HEREIN.

FOUNDATIONS:

1. SPREAD FOOTINGS SHALL BEAR ON SOIL CAPABLE OF SUSTAINING A NET ALLOWABLE BEARING PRESSURE OF 2.5 KSF (ASSUMED) FOR INDIVIDUAL COLUMN FOOTINGS AND 2.5 KSF (ASSUMED) FOR CONTINUOUS WALL FOOTINGS UNDER FULL SERVICE LIVE AND DEAD LOAD.

2. THE FOOTINGS HAVE BEEN POSITIONED AT THE ESTIMATED ELEVATION WHICH WILL PROVIDE SUITABLE BEARING. HOWEVER, IF ADEQUATE BEARING CAPACITY IS NON-EXISTENT AT THESE ESTIMATED ELEVATIONS, THE FOOTING SHALL BE LOWERED TO AN ELEVATION WHERE THE PRESCRIBED SAFE BEARING CAPACITY EXISTS.

3. FOOTINGS MAY BE CAST INTO AN EARTH-FORMED TRENCH IF SOIL CONDITIONS PERMIT.

4. EXCAVATION FOR FOOTINGS SHALL BE CUT TO ACCURATE SIZES AND DIMENSIONS, AS SHOWN ON PLANS. ALL SOIL BELOW SLABS AND FOOTINGS SHALL BE PROPERLY COMPACTED AND SUBGRADE BROUGHT TO A REASONABLE TRUE AND LEVEL PLANE BEFORE PLACING CONCRETE.

5. IN THE AREA OF THE BUILDING, EXISTING ORGANIC MATERIAL, UNSUITABLE SOIL, ABANDONED FOOTINGS AND ANY OTHER EXISTING UNSUITABLE MATERIALS SHALL BE REMOVED. ANY FILL MATERIAL REQUIRED AT THE SITE SHALL BE OF A SIMILAR TYPE OF SOIL TO THAT WHICH IS PRESENT AT THIS SITE AND APPROVED BY A SOILS ENGINEER. ROCKS OF A DIAMETER GREATER THAN THAT SPECIFIED SHALL BE EXCLUDED FROM STRUCTURAL FILL LIFTS. FILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS NO GREATER THAN 12 INCHES IN DEPTH AND SHALL BE COMPACTED TO AT LEAST 95% OF THE MATERIAL'S MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED COMPACTION TEST (ASTM D1557). ADEQUATE FIELD DENSITY AND MOISTURE CONTENT TESTS SHALL BE PERFORMED TO ENSURE COMPLIANCE.

6. FOOTING CONCRETE SHALL BE CAST ON THE SAME DAY THE EXCAVATION IS APPROVED. IF THE BEARING SURFACE IS ALLOWED TO BECOME DISTURBED IN ANY WAY, IT SHALL BE REWORKED TO THE SATISFACTION OF THE TESTING ENGINEER PRIOR TO CASTING THE CONCRETE.

7. ALL BEARING MATERIAL SHALL BE INSPECTED BY THE INDEPENDENT TESTING AGENCY PRIOR TO CONCRETE PLACEMENT. THE INDEPENDENT TESTING AGENCY SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIAL. FOOTING ELEVATIONS SHALL BE ADJUSTED AS REQUIRED.

8. BOTTOM OF EXTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 1'-0" BELOW FINAL GRADE FOR FROST PROTECTION.

9. WHEN UNSATISFACTORY OR UNCONTROLLED FILL IS ENCOUNTERED, REMOVAL AND REPLACEMENT WILL BE PAID ON THE BASIS OF UNIT PRICES SET FORTH IN THE CONTRACT.

10. DRAINAGE FILL SHALL BE AN EVENLY GRADED MIXTURE OF NATURAL OR CRUSHED STONE, CONFORMING TO THE REQUIREMENTS OF ASTM STANDARD C33, AND HAVING A GRADATION AS FOLLOWS:

100 % PASSING.............	A 3/4" SIEVE
10-30 % PASSING.........	A 1/2" SIEVE
0-10 % PASSING...........	A 3/8" SIEVE
0-5 % PASSING............	A #4 SIEVE

11. ANY FILL WITHIN 10'-0" OF THE BUILDING LIMIT SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY. CONFORM TO THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER FOR PREPARATION.

12. BACKFILL AROUND AND OVER FOUNDATION ELEMENTS SHALL BE OF SUITABLE MATERIAL, INSPECTED AND PRE-APPROVED BY THE TESTING ENGINEER.

13. BACKFILL AGAINST WALLS SHALL BE PLACED IN 8 INCH LIFTS AND SHALL BE DEPOSITED EVENLY AGAINST EACH SIDE OF THE WALL UNTIL THE LOWER FINAL GRADE IS REACHED. BACKFILL SHALL NOT BE PLACED AGAINST WALLS DEPENDENT UPON TOP AND BOTTOM SLABS/FOUNDATION FOR SUPPORT UNTIL SUCH SLABS HAVE ATTAINED MINIMUM DESIGN COMPRESSIVE STRENGTH. WALLS WITH SLAB-ON-GROUND AT THE TOP OF THE WALL SHALL BE SAFELY SHORED AND BRACED DURING BACKFILLING.

14. MAXIMUM SLOPE OF EXCAVATIONS SHALL BE IDENTIFIED IN THE GEOTECHNICAL INVESTIGATION REPORT AND ADHERED TO. PROVIDE SHORING AND PROTECTION FOR EXCAVATION BANKS AS NECESSARY TO PRESERVE SAFETY AND PREVENT CAVING.

15. ALL BEARING STRATA SHALL BE ADEQUATELY DRAINED BEFORE FOUNDATION CONCRETE IS PLACED.

16. COLUMN FOOTINGS AND WALL FOOTINGS SHALL BE POURED MONOLITHIC WITH TOPS OF ADJACENT FOOTINGS AT THE SAME ELEVATION.

17. THERE SHALL BE NO HORIZONTAL OR VERTICAL CONSTRUCTION JOINTS IN ANY FOOTING WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER.

18. CONCRETE CAST ON SLOPING SURFACES SHALL BEGIN AT THE LOWEST ELEVATION AND CONTINUE MONOLITHICALLY TOWARD THE HIGHER ELEVATION UNTIL THE INTENDED POUR IS COMPLETED.

19. CONTRACTOR SHALL SUBMIT A QUANTITY AND COST BREAKDOWN FOR EACH OF THE FOOTINGS SUPPORTING THE METAL BUILDING COLUMNS.

CONCRETE:

1. CODE: AMERICAN CONCRETE INSTITUTE (ACI) 318 (LATEST ADDITION)

2. CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH AND DENSITY IN ACCORDANCE WITH THE FOLLOWING:

	STRENGTH PSI	DENSITY PCF
FOOTINGS & SLABS ON GRADE..	3000	145

3. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR ALL UNIQUE CONCRETE APPLICATIONS FOR REVIEW WELL IN ADVANCE OF CONCRETE PLACEMENT. CONCRETE MIX DESIGN SHALL BE CERTIFIED BY AN ENGINEER REGISTERED IN THE PROJECT STATE. MIX DESIGN TEST DATA SHALL COMPLY WITH ACI 318 5.3 AND SHALL INCLUDE (AT A MINIMUM) AVERAGE 28 DAY STRENGTH, NUMBER OF SAMPLES, AND STANDARD DEVIATION (IF APPLICABLE). TEST RESULTS SHALL NOT BE MORE THAN 24 MONTHS OLD AT TIME OF SUBMITTAL.

4. REINFORCING SHALL CONFORM TO ASTM A615, GR60, UNLESS NOTED OTHERWISE.

5. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185, GRADE 60.

6. WELDED WIRE FABRIC SHALL BE PLACED 1" BELOW T/SLAB, UNLESS NOTED OTHERWISE. LAP FABRIC 6" ON SIDES AND ENDS.

7. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE LATEST ADDITION OF THE ACI DETAILING MANUAL.

8. ALL MIXING, TRANSPORTING, PLACING AND CURING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE.

9. ALL "CONTINUOUS" REINFORCEMENT SHALL HAVE A MINIMUM LAP OF "B" TYPE (ACI 318) AT SPLICES, UNLESS NOTED OTHERWISE.

10. PROVIDE 3" X 6" X 20 GAGE SHEET METAL BAR CHAIRS AT 4'-0" MAXIMUM CENTERS EACH WAY FOR ALL TOP REINFORCING FOR SLABS-ON-GRADE.

11. SUBMIT REINFORCING PLACEMENT AND DETAIL (SHOP) DRAWINGS FOR REVIEW. NO REINFORCING BARS SHALL BE INSTALLED UNTIL THE SHOP DRAWINGS HAVE BEEN REVIEWED AND RETURNED.

12. PRODUCTS AND MATERIALS:
   A. TYPE 1 PORTLAND CEMENT SHALL CONFORM TO ASTM-C150.
   B. AGGREGATES SHALL CONFORM TO ASTM C-33.
   C. REINFORCING BARS SHALL CONFORM TO ASTM A-615 (GRADE 60).
   D. FORMING SHALL BE OF WOOD, STEEL, OR FIBERGLASS OF SATISFACTORY QUALITY AND CONDITION.
   E. NO ADMIXTURES SHALL BE ADDED TO THE CONCRETE UNLESS APPROVED BY THE ENGINEER.
   F. NON-SHRINK GROUT SHALL BE READY TO USE NON-METALLIC AGGREGATE AND DEVELOP A 7-DAY COMPRESSIVE STRENGTH OF 5000 PSI.

16. ALL REINFORCING SHALL BE SUPPORTED IN FORMS SPACED WITH NECESSARY ACCESSORIES AND SHALL BE SECURELY WIRED TOGETHER IN ACCORDANCE WITH LATEST ADDITION OF THE CRSI "MANUAL OF STANDARD PRACTICE".

17. MINIMUM CONCRETE COVER (UNLESS NOTED OTHERWISE) SHALL BE:

#11 BARS AND SMALLER...	3/4 INCHES
UNFORMED SURFACE IN CONTACT WITH THE GROUND.....	3 INCHES
EXTERIOR BASEMENT WALLS..	2 INCHES
INTERIOR BASEMENT WALLS...	3/4 INCHES
FORMED SURFACES EXPOSED TO EARTH OR WEATHER	
#6 BARS AND LARGER..	2 INCHES
#5 BARS AND SMALLER..	1 1/2 INCHES
FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER	
BEAMS GIRDERS AND COLUMNS.....................................	1 1/2 INCHES
SLABS, WALLS, AND JOISTS..	3/4 INCHES

18. LAP SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING, UNLESS NOTED OTHERWISE. WHERE CLASSES ARE NOT CALLED OUT ON DRAWINGS, USE CLASS "B" SPLICES.

BAR	TENSION SPLICES (INCHES)				COMPRESSION SPLICES (INCHES)
	TOP BARS		OTHER BARS		
SIZE	A	B	A	B	
3	22	28	17	22	12
4	29	37	22	29	15
5	36	47	28	36	19
6	43	56	33	42	23
7	63	81	48	63	25

19. SCHEDULED OR DETAILED REINFORCING STEEL SHALL NOT BE TACK WELDED FOR ANY REASON. WELDED REINFORCING STEEL SPLICES ARE NOT PERMITTED WITHOUT ENGINEER'S APPROVAL. WHERE WELDING IS APPROVED IT SHALL CONFORM TO AWS D1.4 STRUCTURAL WELDING CODE - REINFORCING STEEL.

20. CORNER BARS SHALL BE OF EQUAL SIZE AND SPACING AS THE MAIN REINFORCING WITH LAP SPLICE LENGTHS EQUAL TO 44 BAR DIAMETERS, MINIMUM.

21. SLAB-ON-GRADE SHALL BE SAW CUT IMMEDIATELY AFTER CONCRETE HARDENS. THE CONTRACTOR SHALL SUBMIT LAYOUT AND CONSTRUCTION SCHEDULE ("SOFT CUT" ® INTERNATIONAL OR SIM.)

22. CONTROL JOINTS IN SLABS ON GROUND SHALL BE LOCATED AT 15'-0" MAXIMUM SPACING AND SHALL CREATE SECTIONS OF SLAB WITH A MAXIMUM ASPECT RATIO OF 1.5:1. CONTROL JOINTS SHALL BE SAWN AND SHALL BE A MINIMUM OF ¼ OF THE SLAB THICKNESS DEEP IF CUT WITH A CONVENTIONAL SAW, OR 1" DEEP IF CUT WITH AN EARLY-ENTRY DRY-CUT SAW. THE CONTROL JOINTS SHALL BE SAWN AS SOON AS THE SAW BLADE CAN CUT THE CONCRETE WITHOUT DISPLACING THE AGGREGATE. CUT EVERY OTHER MESH WIRE AT THE CONTROL JOINT LOCATION PRIOR TO PLACING CONCRETE.

23. SAWN CONTROL JOINTS SHALL BE PLACED AS SOON AS CONCRETE IS ABLE TO BE SAWN WITHOUT PULLING AGGREGATE FROM FLOOR. SLABS SHALL NOT BE LEFT OVERNIGHT, OR ANY REASONABLE AMOUNT OF TIME, WITHOUT SAWING JOINTS. WEATHER IS CRITICAL TO THE SCHEDULE OF SAWN JOINTS. IF LARGE AREAS OF SLAB ARE POURED AT ONE TIME, SEVERAL SAWS MAY BE REQUIRED SO THAT JOINTS ARE PLACED IN TIME TO PREVENT SHRINKAGE CRACKING. PROPER JOINTING OF THE SLAB IS CRITICAL. REFER TO THE ACI MANUAL OF CONCRETE PRACTICE FOR PROPER JOINTING TECHNIQUES.

24. THE FLATNESS AND LEVELNESS OF THE SLAB-ON-GRADE SHALL BE DETERMINED ACCORDING TO ASTM E-1155 OR ACI 117, SLAB CLASS 5 (ACI 302) STANDARD TEST METHOD USING F NUMBERS. THE SPECIFIC FLATNESS AND LEVELNESS SHALL BE F/F-35 AND F/L-20.

25. WHERE FOOTINGS, WALLS, OR OTHER STRUCTURAL ELEMENTS INTERSECT, CORNER OR TEE, PROVIDE CORNER BARS WITH REQUIRED LAP LENGTHS TO PROVIDE CONTINUITY OF HORIZONTAL STEEL REINFORCING, UNLESS NOTED OTHERWISE.

26. PLACEMENT OF CONCRETE, COLD WEATHER AND HOT WEATHER PRECAUTIONS, MATERIAL AND PROPORTIONING REQUIREMENTS, REBAR COVER AND DETAILING SHALL CONFORM TO THE REQUIREMENTS OF THE ACI 318.

27. ALL CONDUIT, SLEEVES AND PIPES EMBEDDED IN CONCRETE SHALL CONFORM TO SECTION 6.3 OF ACI 318 AND THE FOLLOWING:

   A. SLEEVES AND PIPES SHALL BE PLACED SO THAT REINFORCING STEEL CAN BE PLACED WITH THE SPECIFIED COVER AND CLEAR DISTANCE BETWEEN BARS.
   B. THE CONCRETE COVERING OF PIPES AND SLEEVES SHALL NOT BE LESS THAN 1". CLEAR DISTANCE BETWEEN SUCH PIPES AND SLEEVES SHALL NOT BE LESS THAN 1-1/2".
   C. CONDUITS AND PIPES PLACED IN SLABS SHALL NOT BE LARGER IN OUTSIDE DIAMETER THAN ONE-THIRD THE THICKNESS OF THE SLAB. IF IT IS NECESSARY TO USE LARGER CONDUIT OR PIPES, THE SLAB SHALL BE THICKENED AND REINFORCING SHALL BE ADDED TO SUPPORT THE ADDITIONAL WEIGHT OF THE CONCRETE.

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FAYETTE CO.
FIRE STATION NO. 4

278 MCELROY ROAD
FAYETTEVILLE, GEORGIA

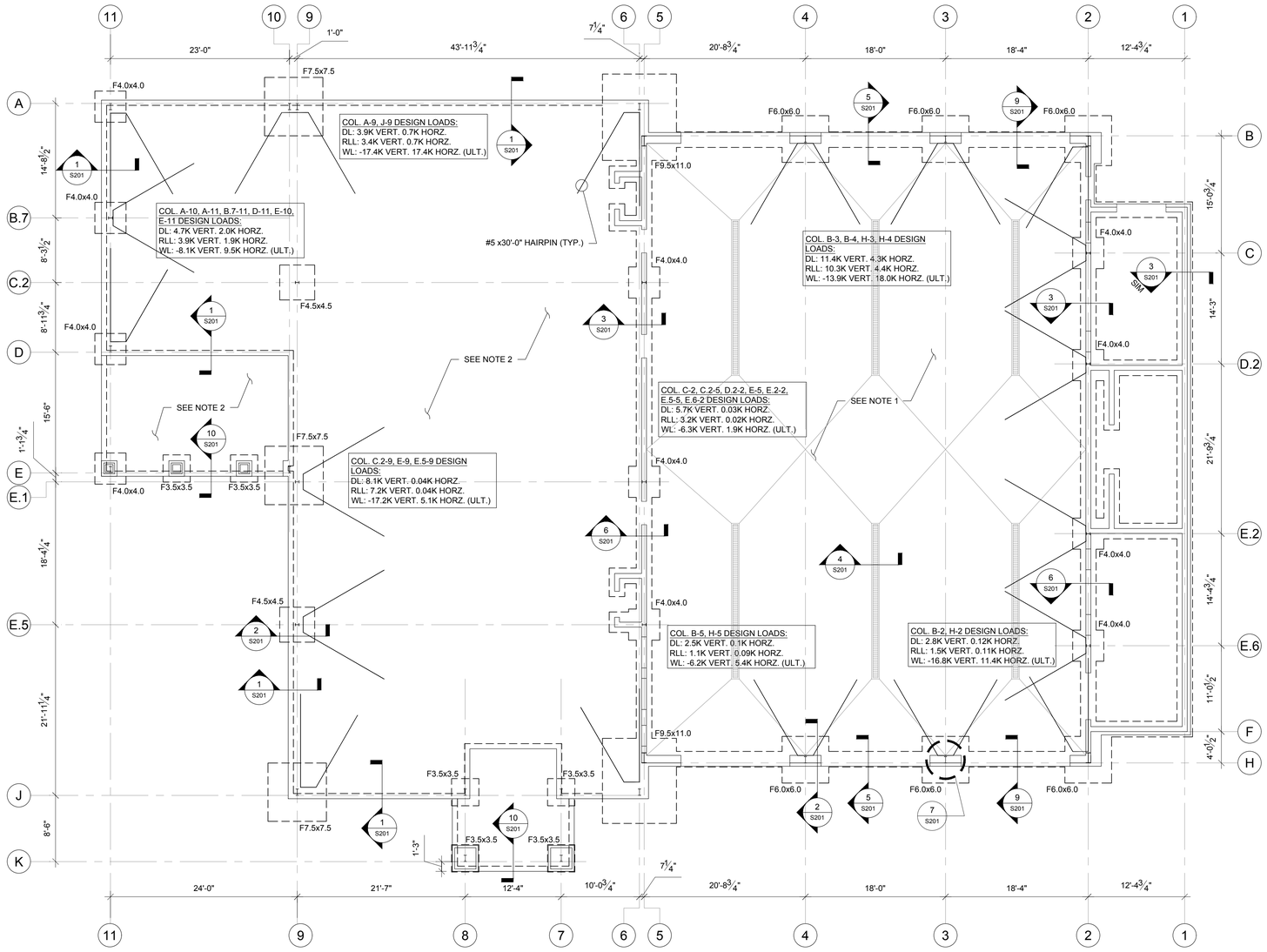
Prepared for
FAYETTE CO.
FIRE DEPT

COMMISSION NO:
1748.00

SHEET TITLE:
GENERAL NOTES

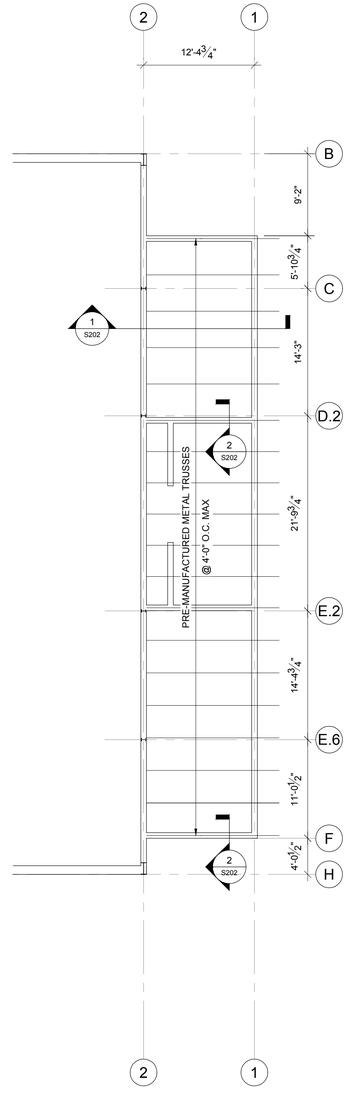
SHEET NO:
S001

NOT ISSUED FOR CONSTRUCTION



1 S101 FOUNDATION PLAN

SCALE: 1/8"=1'-0"



2 S101 PARTIAL ROOF FRAMING PLAN

SCALE: 1/8"=1'-0"

FOUNDATION PLAN NOTES

1. PROVIDE 8" THICK CONCRETE SLAB-ON-GRADE (f'c = 3,000 PSI) ON VAPOR RETARDER OVER 6" MIN. COMPACTED GRADED AGGREGATE BASE W/ #4 @ 12" O.C. EACH WAY TOP & BOTTOM IN SLAB.
2. PROVIDE 4" THICK CONCRETE SLAB-ON-GRADE (f'c = 3,000 PSI) ON VAPOR RETARDER OVER 8" MIN. GRANULAR FILL. PROVIDE (1) LAYER 6x6:W1.4xW1.4 W.W.F. 1" FROM TOP OF SLAB.
3. FOOTINGS SHALL BE LOCATED ON CENTERLINE OF WALL AND/OR COLUMNS, U.N.O. ALL EXTERIOR COLUMN FOOTINGS ALIGN WITH EDGE OF WALL FOOTING IN BOTH DIRECTIONS.
4. T/FOOTING = 1'-4" BELOW T/SLAB ELEVATION, TYP.
5. CONTRACTOR SHALL COORDINATE FOOTING ELEVATIONS WITH MECHANICAL DRAWINGS TO AVOID INTERFERENCE WITH UNDERGROUND PIPING. STEP FOOTINGS AS REQUIRED PER TYPICAL DETAILS.
6. SEE CIVIL/ARCHITECTURAL DRAWINGS FOR EXTERIOR SLAB ON GRADE.
7. REFER TO ARCHITECTURAL AND SPECIALTY ENGINEER DRAWINGS FOR LOCATIONS OF LOADS.
8. REACTIONS SHOWN ON PLAN ARE PRELIMINARY. FOUNDATION SIZES ARE SUBJECT TO CHANGE UPON REVIEW OF FINAL METAL BUILDING REACTIONS AND ANCHOR BOLT LAYOUTS FROM PRE-ENGINEERED BUILDING MANUFACTURER.
9. COORDINATE COLUMN SIZES, LOCATIONS AND BASE PLATE AND ANCHOR ROD LAYOUT W/ METAL BUILDING MANUFACTURER.
10. ALL METAL BUILDING COLUMNS TO BE STRAIGHT MEMBERS.

FOOTING SCHEDULE		
MARK	FOOTING SIZE	REINFORCEMENT
F3.5x3.5	3'-6"x3'-6"x14"	(4) #5 EA WAY BOTTOM
F4.0x4.0	4'-0"x4'-0"x14"	(4) #5 EA WAY BOTTOM
F4.5x4.5	4'-6"x4'-6"x14"	(5) #5 EA WAY BOTTOM
F6.0x6.0	6'-0"x6'-0"x16"	(5) #6 EA WAY BOTTOM
F7.5x7.5	7'-6"x7'-6"x16"	(8) #6 EA WAY BOTTOM
F9.5x11.0	9'-6"x11'-0"x22"	(11) #6 SHORT BOTTOM & (12) #6 LONG BOTTOM

FOOTING SIZES ARE BASED ON ESTIMATED COLUMN REACTIONS AND ARE SUBJECT TO CHANGE. FINAL FOOTING SIZES ARE CONTINGENT ON "FIELD USE" DRAWINGS, INCLUDING ANCHOR BOLT LAYOUTS AND REACTIONS FROM PRE-ENGINEERED BUILDING MANUFACTURER.

ROOF TRUSS NOTES

1. TRUSS LAYOUT AND PROFILES BY ROOF TRUSS MANUFACTURER.
2. SUBMIT FOR RECORD TO THE ARCHITECT DESIGN CALCULATIONS W/ SHOP DRAWINGS SEALED BY A LICENSED STRUCTURAL ENGINEERING REGISTERED FOR THE STATE OF GEORGIA. THE CALCULATIONS AND SHOP DRAWINGS SHALL INCLUDE, BUT ARE NOT LIMITED TO:
   A. TRUSS SIZE
   B. TRUSS CONNECTIONS
   C. BRACING REQUIREMENTS AND LOCATIONS
   D. BRIDGING REQUIREMENTS AND LOCATIONS
   E. ATTACHMENT DETAILS
3. REFER TO ARCH DRAWINGS FOR DIMENSIONS AND ELEVATIONS NOT SHOWN
4. TRUSSES TO BE DESIGNED AND BRACED AS REQUIRED TO PROVIDE CONTINUOUS DIAPHRAGM.
5. DESIGN LOADS:
   TOP CHORD: 10 PSF DEAD LOAD
   20 PSF LIVE LOAD
   BOTTOM CHORD: 5 PSF DEAD LOAD

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SHEET TITLE:
FOUNDATION PLAN

SHEET NO:
S101

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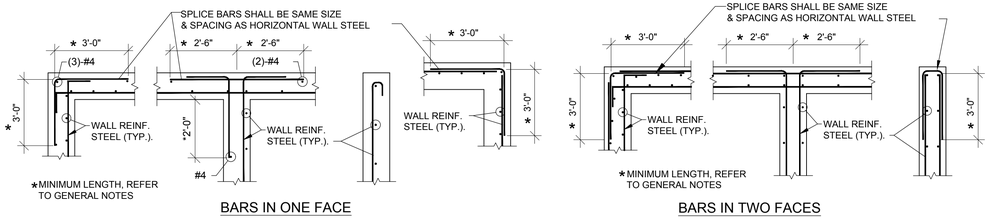

STL. ARRANGEMENT AT WALLS AND FOOTINGS

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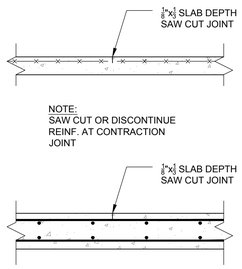

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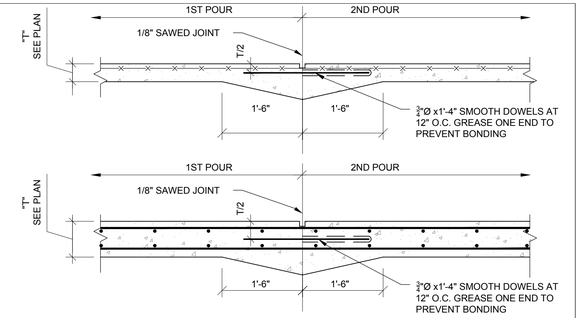

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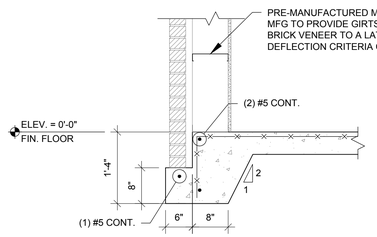

1 S201 SECTION

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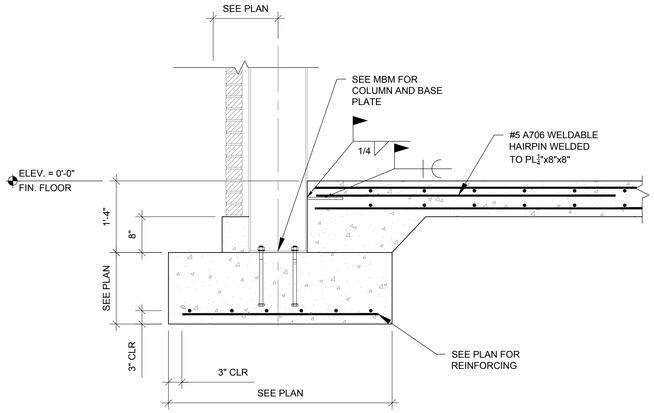

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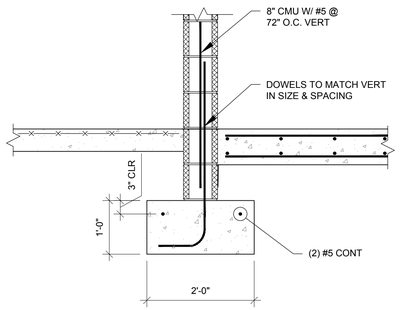

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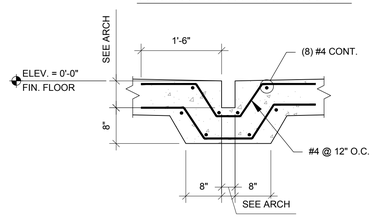

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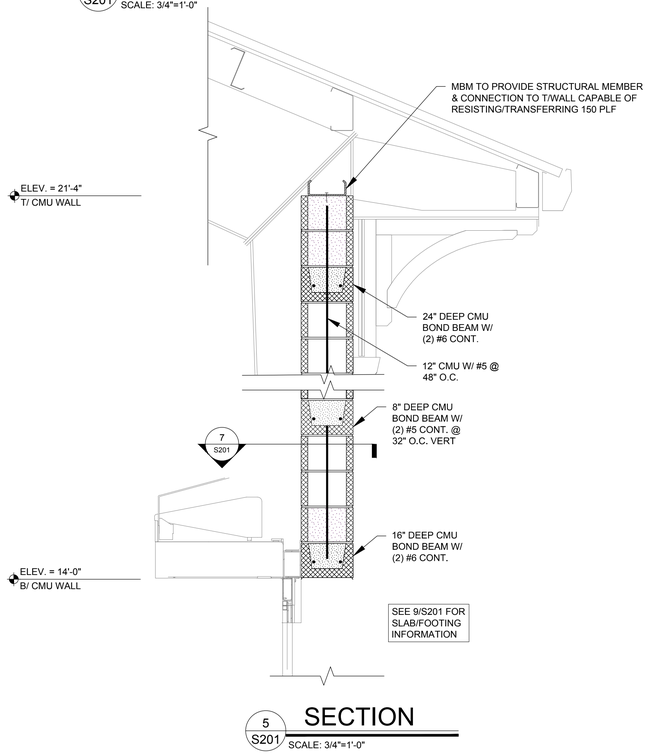

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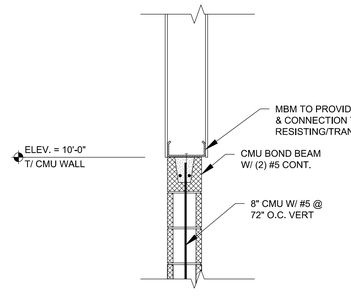

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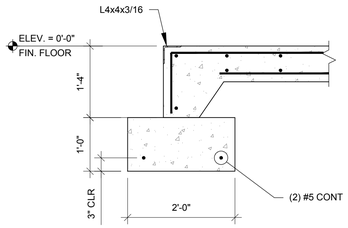

9 S201 SECTION

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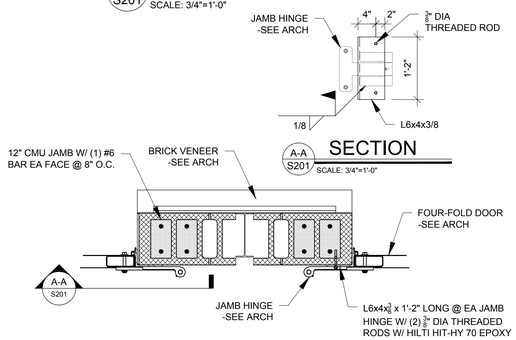

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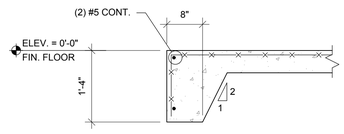

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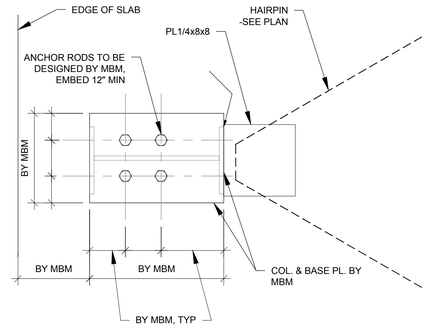
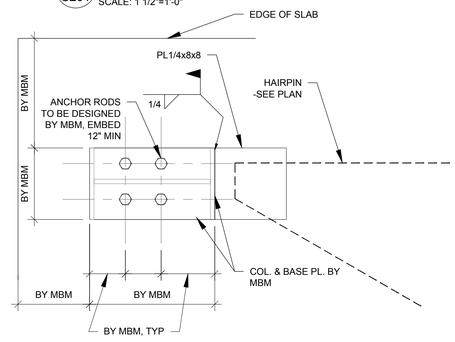


COORDINATE COL. SIZE, LOCATION AND BASE PLATE W/ METAL BUILDING MANUFACTURER.

8 S201 DETAIL

SCALE: 1 1/2"=1'-0"



COORDINATE COL. SIZE, LOCATION, AND BASE PLATE W/ METAL BUILDING MANUFACTURER.

11 S201 DETAIL

SCALE: 1 1/2"=1'-0"

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PROFESSIONAL
ENGINEER

FAYETTE CO. FIRE STATION NO. 4

278 MCELROY ROAD
FAYETTEVILLE, GEORGIA

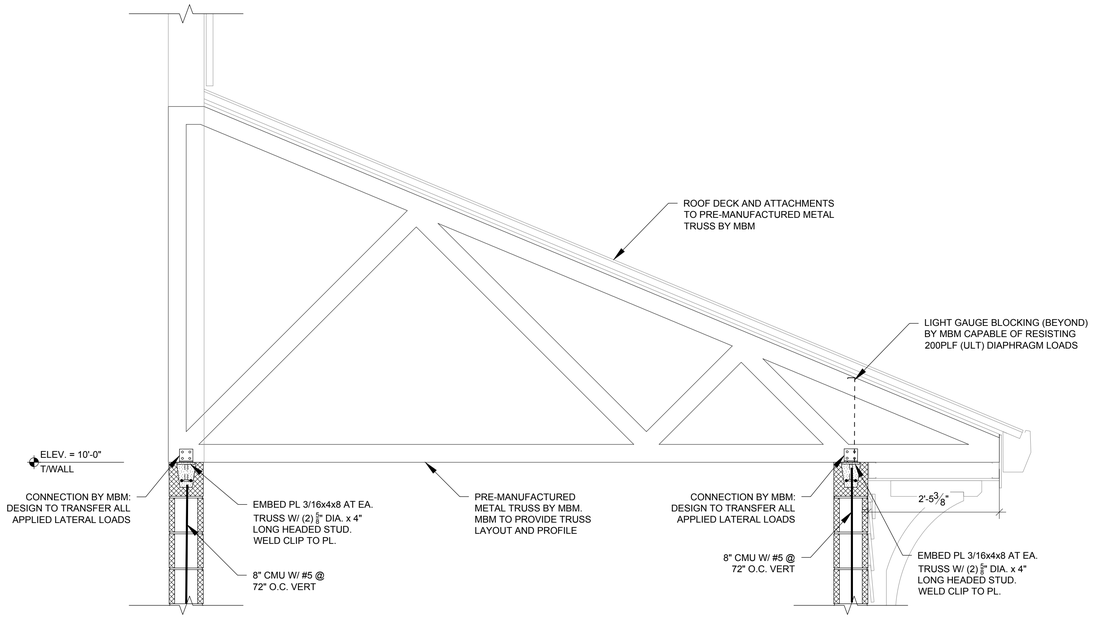
Prepared for
FAYETTE CO. FIRE DEPT

COMMISSION NO:
1748.00

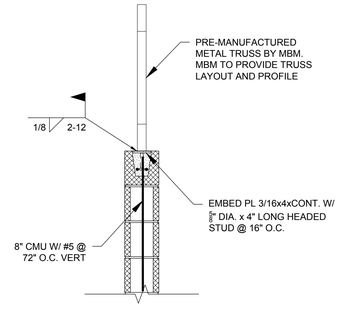
SHEET TITLE:
SECTIONS AND DETAILS

SHEET NO:
S201

NOT ISSUED FOR CONSTRUCTION



1 S202 SECTION
SCALE: 3/4"=1'-0"



2 S202 SECTION
SCALE: 3/4"=1'-0"

architecture
interiors
town planning

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FOUNDATION PLAN

SHEET NO:
S202

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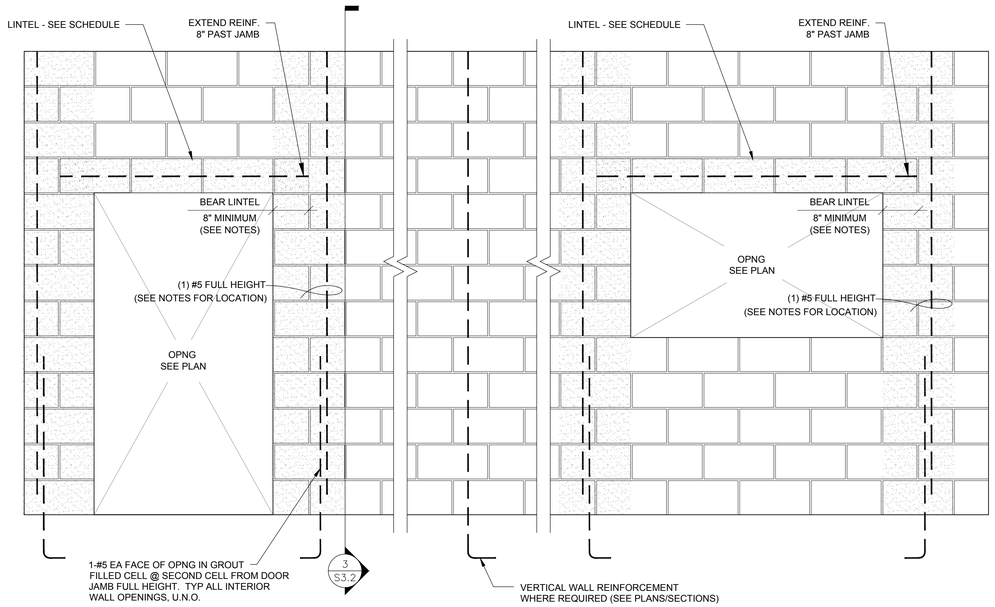
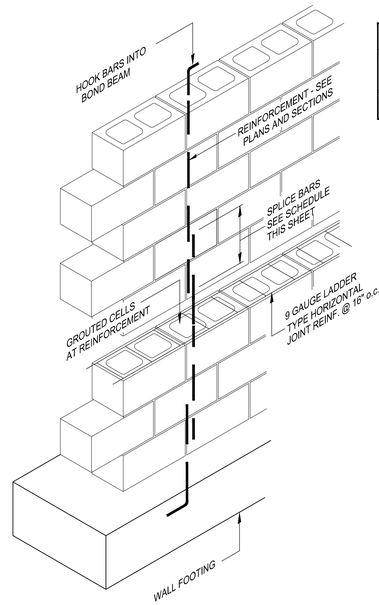


NOTES:
1. FIRST TYPICAL WALL (PILASTER) REINFORCING TO BE PLACED 1/2 THE DISTANCE BETWEEN TYPICAL PILASTER SPACING.
2. BEAR LINTEL 8" WHEN CELLS BELOW ARE SOLID & DO NOT CONTAIN RECEPTACLES, ETC. PLACE (1) #5 FULL HEIGHT IN LINTEL-BEARING CELL.
3. BEAR LINTEL 16" WHEN FIRST JAMB CELL CONTAINS RECEPTACLE. PLACE (1) #5 FULL HEIGHT IN END LINTEL-BEARING CELL.

TYP. DETAIL OF REINFORCED MASONRY NON-SHEARWALL OPENING

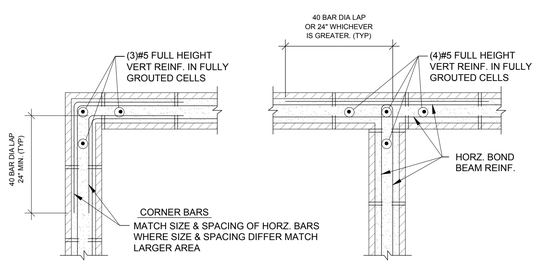


MINIMUM REINFORCING LAP LENGTH SCHEDULE*				
BAR TYPE	BAR SIZE AND LAP LENGTH			
	#3	#4	#5	#6
FILLED 8" CMU CELLS (Single Bar)	12"	15"	23"	43"

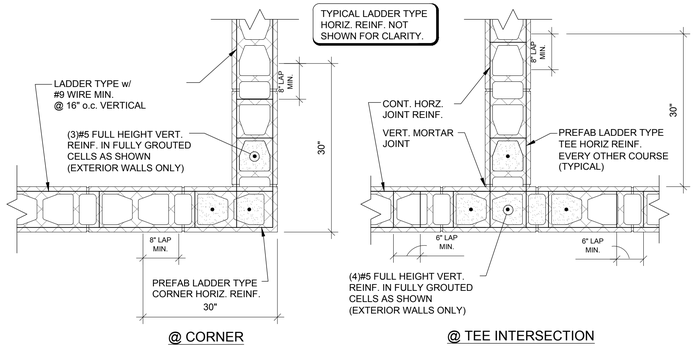
NOTE:
1. THESE VALUES ARE ADEQUATE FOR REGULAR WEIGHT CONCRETE THEY MAY BE MULTIPLIED BY 1.3 IF LIGHT WEIGHT CONCRETE IS USED.
2. THESE VALUES ARE ADEQUATE FOR BARS WITHOUT EPOXY COATING.
3. THESE VALUES APPLY TO MASONRY w/ f'm = 1,500 PSI.
4. TMS 402/ACI 530/ASCE 5 BUILDING CODES ALLOW OPTIONAL REINFORCING SPLICES AS FOLLOWS:
   - A WELDED SPLICE WHEREBY BARS ARE BUTTED AND WELDED TO DEVELOP IN TENSION 125 PERCENT OF THE YIELD STRENGTH OF THE BAR.
   - MECHANICAL CONNECTIONS THAT ARE CAPABLE OF DEVELOPING 125 PERCENT OF THE YIELD STRENGTH OF THE BAR.

LOW LIFT GROUTING PROCEDURE:
A. CONSTRUCT WALL TO HEIGHT OF 5'-0". ALLOW MORTAR TO SET SUFFICIENTLY TO WITHSTAND GROUT PRESSURE.
B. INSPECT UNITS FOR ALIGNMENT. CLEAN OUT CELLS TO BE FILLED.
C. FILL CELLS TO 11/2" BELOW TOP COURSE.
D. DELAY 3 TO 5 MINUTES PRIOR TO CONSOLIDATING TO ALLOW WATER TO BE ABSORBED BY MASONRY.
E. VERTICAL REINFORCING PRE-MANUFACTURED REBAR POSITIONER SHALL BE LOCATED AT THE TOP OF THE FIRST COURSE AT THE COURSE BELOW THE TOP OF THE WALL AND 4'-0" o.c. (MAX.)

TYP. DETAIL OF LOW-LIFT REINFORCED MASONRY CONSTRUCTION

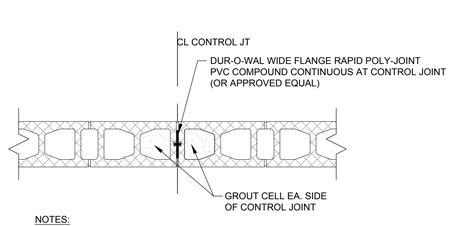


TYP. PLAN OF CORNER & INTERSECTION DETAILS FOR MASONRY BOND BEAMS



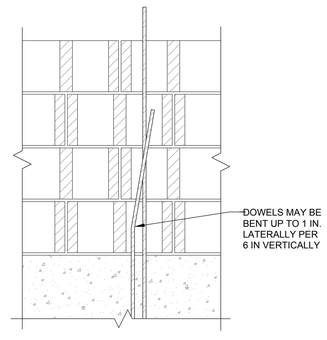
NOTES:
1. CORNER/TEE INTERSECTION REINF. SHALL BE LAPPED WITH THE TYPICAL LADDER TYPE HORIZ. REINF. AND EXTEND A MINIMUM OF 30" IN EACH DIRECTION AT THE INTERSECTION.

TYP. CMU WALL CORNER & INTERSECTION WITH PREFABRICATED CORNERS & TEES



NOTES:
1. SPACING OF CONTROL JOINTS IN INTERIOR/EXTERIOR CMU WALL SHALL NOT EXCEED 30'-0".
2. SEE ARCH FOR EXACT LOCATIONS OF CONTROL JOINTS
3. HORIZ. JOINT REINF. TO STOP AT EA. SIDE OF CONTROL JOINT

TYP. CMU CONTROL JOINTS



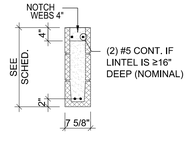
TYP. DOWEL BENDING DETAIL

MASONRY WALL LINTEL SCHED.			
OPENING WIDTH		MASONRY LINTELS	
		LINTEL DEPTH AND REINFORCING **	
MIN.	MAX.	DEPTH	8" WALL
-	4'-6"	7 5/8"	(2)#5 BOTT.
4'-7"	11'-0"	15 5/8"	(2)#5 BOTT.
11'-1"	17'-0"	23 5/8"	(2)#5 BOTT.

** 8" BEARING EACH END FOR U-BLOCK

NOTES:
1. THIS SCHEDULE TO BE USED UNLESS NOTED OTHERWISE.
2. DO NOT USE THIS SCHEDULE IF CONCENTRATED LOAD IS APPLIED TO LINTEL.
3. DO NOT USE THIS SCHEDULE IF HEIGHT OF MASONRY ABOVE OPENING IS LESS THAN HALF OF THE OPENING WIDTH.

MASONRY WALL LINTEL SCHEDULE



MASONRY LINTEL REINFORCING CONFIG.

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HVAC SPECIFICATIONS

HVAC GENERAL

Refer to all other drawings and specifications, and be responsible for all applicable provisions therein. Furnish and install all necessary labor and materials for a complete system. Any appliances or materials obviously a part of the system and necessary for its proper operation, although not specifically mentioned herein, shall be furnished and installed as if called for in detail. Workmanship and materials shall be in accordance with all state and local codes, NFPA 90A, and the FCFD standards. Attain and pay for all required permits and fees. Equipment and materials shall be new unless otherwise specified. Mechanical Contractor shall be licensed to handle CFC refrigerants.

Drawings are generally diagrammatic and do not necessarily show every fitting, offset, drop and rise of runs, and detail. Install ducts, equipment, and controls in a neat, workmanlike manner and in accordance with good practice for a complete, workable installation. Avoid conflict with other work; make adequate provisions for preventing noise and vibration. Drawings indicate locations of fixtures, apparatus, ductwork and piping; while these are to be followed as closely as possible, if it is necessary to change the location of same to accommodate building conditions, make changes without additional cost to the Owner and as approved by the Architect. Provide adequate access to equipment and apparatus requiring operation, service, or maintenance within the life of the system. Do not run piping or ductwork, or locate equipment (with respect to switchboards, panel boards, power panels, motor control centers, or dry type transformers) within 42 inches in front of equipment, over equipment, or within 36 inches horizontally of same space.

COORDINATION

Coordinate all work under this Division with work under other Divisions. Provide adjustments as necessary. Equipment, apparatus, ductwork, piping, etc., installed without regard for the space requirements of other trades will be reworked at the expense of the installing subcontractor if it creates an unnecessary hindrance to the installation of another trade's work. All items mounted at or below the ceiling and any item penetrating the ceiling shall be coordinated with the architectural reflected ceiling plans.

PROTECTION OF WORK DURING CONSTRUCTION

Provide protective covers, skids, plugs, or caps to protect equipment and materials from damage and deterioration during construction. Protect exposed coils with plywood or other suitable rigid covers to avoid damage to fins.

Protect all equipment and materials from damage. Any damage shall be repaired using the same materials at the Contractor's cost.

SUBMITTALS

Submit for review shop drawings, in Adobe PDF format, on all equipment, grilles and diffusers, automatic control diagrams, ductwork layout, piping layout, and sheet metal construction standards.

Submit all shop drawings for review and approval prior to purchase, fabrication, and installation.

TESTING

Refrigerant piping shall be leak tested using nitrogen and refrigerant charge with electronic leak detector. After repairing leaks, retest as required. After leak test, dehydrate by producing and holding vacuum of 2.5 in. hg. Maintain vacuum for 24 hours with maxmum 0.05 in. pressure rise. If leakage exceeds 0.05 in., repeat all of test before dehydration.

All leaks shall be repaired by tightening, re-welding, or replacing pipe and fittings.

Adjust dampers, registers, and diffusers for proper air distribution. Check system under actual operating conditions, and make adjustments for a uniform temperature through the conditioned space.

CLEANING AND ADJUSTING

The exterior surfaces of all mechanical equipment, piping, ducts, etc., shall be cleaned of all grease, oil, paint, and other construction debris. Ducts, plenums, and casings shall be cleaned of all debris and blown free of all particles of rubbish and dust before installing outlet faces. Bearings that require lubrication shall be lubricated in accordance with the manufacturer's recommendations. All control equipment shall be adjusted to the settings indicated or required for performance as specified. Flush water piping systems until water runs clean. Remove all stickers, rust, stains, labels, and temporary covers before final acceptance. Remove foreign matter from equipment, piping and ductwork systems, and appurtenances. Clean and polish identification plates. Remove all trash and debris from the job site on a daily basis.

BALANCING

Contractor shall retain the services of an independent Test and Balance agency. Testing and balancing of the HVAC systems shall be performed in accordance with AABC or NEBB standards.

GUARANTEE

Materials and workmanship shall be guaranteed against defects for one year. Provide additional four years warranty on all compressors.

EQUIPMENT IDENTIFICATION

Provide labels for each equipment, starter and control switch. Labels to be engraved laminated bakelite nameplates with 1/4-inch high white cut letters; secure to starter or switch.

OPENINGS THROUGH ROOF AND EXTERIOR WALLS

Provide all necessary flashing and counterflashing to maintain the waterproof integrity of this building as required by the removal and/or installation of pipes, ducts, conduits, and equipment. Submit for review to the building management.

HVAC INSULATION

Quality Assurance: Specified components of this insulation system, including facings, mastics, and adhesives, shall have a fire hazard rating not to exceed 25 for flame spread and 50 for smoke developed rating, as per tests conducted in accordance with ASTM E84 (NFPA 255) methods.

Pipe Insulation:

TYPE P1 ASTM C534: Flexible, closed cell elastomeric, nominal 6 P.C.F. density, K factor 0.27 maximum at 75 degrees F mean, plenum rated.

Approved products: Armstrong AP Armaflex, Manville Aerotube II, Nomaco Therma-Cel, Rubatex R-180-F5.

Duct Insulation:

TYPE D1 ASTM C553 TYPE 1, CLASS B3: Fiberglass, nominal 1 (one) P.C.F. density blanket, K factor 0.31 maximum at 75 degrees F mean, with factory-applied FSK (Foil-Scrim-Kraft) vapor barrier jacket, for temperatures to 250 degrees F.

Approved products: CertainTeed "Standard Duct Wrap", Manville "Microlite", Owens/Corning Fiberglass RFK-75, Knauf "Ductwrap".

HVAC INSULATION (CONTINUED)

TYPE D2: Fiberglass, nominal 2.0 P.C.F. density liner, K factor 0.26 maximum at 75 degrees F mean, black coating, for temperatures to 250 degrees F.

Approved products: CertainTeed Ultralite Duct Liner 200, Manville Linacoustic, Knauf Duct Liner M.

TYPE D3: High temperature fiber type blanket insulation encapsulated in a fiberglass-reinforced aluminized polyester foil, nominal 6.0 PCF density, K factor 0.11 maximum at 75 degrees F mean, for temperatures to 1000 degrees F.

Approved products: 3M Fire Barrier Duct Wrap 615+, or approved equal.

Installation of Pipe Insulation:

Install insulation on pipe systems subsequent to testing and acceptance of test.

Maintain integrity of vapor-barrier jackets on pipe insulation, and protect to prevent puncture or other damage. Seal open ends of insulation with mastic. Sectionally seal all butt ends of all cold water piping insulation at fittings with white vapor barrier coating.

Cover valves, flanges, fittings, and similar items in each piping system with equivalent thickness and composition of insulation as applied to adjoining pipe run. Install factory-molded, precut or job-fabricated units (at Installer's option). Finish cold pipe fittings with white vapor barrier coating and hot piping with white vinyl acrylic mastic, both reinforced with glass cloth.

Extend piping insulation without interruption through walls, floors, and similar piping penetrations, except where otherwise indicated.

Where insulation is exposed on the exterior of the building, paint insulation with UV inhibitor paint, as recommended by the insulation manufacturer.

Installation of Ductwork Insulation:

Maintain integrity of vapor-barrier on ductwork insulation, and protect it to prevent puncture and other damage. Tape all punctures. Secure all ductwork with galvanized wire 12 inches O.C. Secure ductwork with outward clinching staples. Seal all longitudinal and circumferential joints with FSK tape.

Extend ductwork insulation without interruption through walls, floors, and similar ductwork penetrations, except where otherwise indicated.

Omit insulation on supply and return ductwork where internal insulation or sound-absorbing linings is installed.

All internal insulation shall be adhered to the duct with 100% coverage of approved fire-retardant mastic. All edges shall be sealed and any abrasions or tears repaired with mastic.

Increase indicated duct sizes to compensate for liner thickness.

Insulation Requirements:

Refrigerant Gas Piping: TYPE P1, 3/4-INCH THICKNESS

Interior Condensate Drain Piping: TYPE P1, 1/2-INCH THICKNESS

Ductwork, Supply, Return and Outside Air: TYPE D1, 2-INCH THICKNESS

Ductwork, Rectangular Supply and Return within 5 feet of each furnace-coil unit: TYPE D2, 1-INCH THICKNESS

Ductwork, Range Exhaust: TYPE D3, TWO LAYERS, 1.5" THICKNESS EACH, (TOTAL THICKNESS =3")

SHEET METAL WORK

Except as otherwise noted, all ductwork and other sheet metal work shall be installed in accordance with latest edition of the Sheet Metal and Air Conditioning Contractor National Association, Inc. (SMACNA), HVAC Duct Construction Standards manual. Ductwork shall be galvanized sheet steel, unless otherwise noted. Fiberglass ductwork is NOT acceptable.

Minimum ductwork static pressure construction shall be 2-inch W.G. All ducts shall be seal Class "C".

Low pressure flexible duct shall be similar to Flexmaster Type 5 or approved equal, with 1-inch thick insulation and shall conform to U.L. 181 and NFPA Bulletin 90A. Maximum length shall not exceed four (4) feet.

Volume Dampers: Same material as duct, per SMACNA, except provide bearing at one end of damper rod and quadrant with lever and lockscrew at other end. For insulated ducts, quadrants mounted on collar shall clear insulation; install with levers accessible outside insulation. Balancing dampers shall be the opposed blade type.

Flexible Connections: Neoprene-coated glass fabric, 30 oz. per square yard with sewed and cemented seams, similar to vent fabrics. Provide flexible connections between all equipment and rigid ductwork. Fabric connections shall be at least four (4) inches long and have metal collar at each end; allow at least one-inch slack to eliminate vibration transmission.

Turning Vanes: Galvanized steel, single thickness vanes with minimum 2-inch inside radius. All square elbows shall have turning vanes.

Duct sizes shown are clear inside dimensions. Where internal insulation is called for, dimensions shall be increased by thickness of insulation.

Portions of ductwork visible through supply and return air openings shall be painted flat black.

Transition rectangular ductwork on the bottom and the sides. Maintain ductwork level and as high as possible unless noted otherwise.

All branch ductwork shall be sized to match the inlet of the diffusers or grille served. Flexible duct runouts may NOT be used in inaccessible locations.

All duct transitions from square to round shall be smooth square-to-round transitions. Spin-in fittings at the end of capped ducts are not acceptable.

For round duct take-offs from metal ducts, use Genflex Model No. SM-1DEL "Spin-in" fitting.

Range exhaust ductwork shall be fabricated from minimum 16 gauge carbon steel sheet metal, with all seams and butt joints continuously welded to provide a liquid tight duct system. Provide gasketed duct cleanout at each change of direction. Slope ductwork toward range hood at minimum 1" per foot.

PIPING

General: Piping shall be complete with pipe fittings, valves, couplings, hanger rods, hangers, supports, guides, sleeves, and accessories in conformance with the latest codes and ASME, ANSI, ASTM, and MSS Standards.

For pipe sizes not indicated on plans, see manufacturer's equipment connection details.

Avoid entry of foreign matter into piping during construction. After completion of piping, flush water system with water until clear.

Provide minimum pitch to insure adequate venting and drainage.

PIPING (CONTINUED)

Piping Material:

Refrigerant piping shall be copper ASTM #B280, factory cleaned, nitrogen charged, and capped.

Condensate discharge piping shall be schedule 40 PVC.

Natural gas piping installed above grade shall be schedule 40 black steel with black malleable iron screw fittings for 0.5 psig and lower pressures, and forged steel socket weld fittings for pressures greater than 0.5 psig. Underground gas piping shall be HDPE, designed specifically for use in natural gas systems of the pressures indicated on the drawings.

Refrigerant Pipe Size:

Liquid and suction refrigerant lines shall be sized per manufacturer's recommendations.

AIR DISTRIBUTION DEVICES

Diffusers, registers, and grilles shall be as scheduled on the drawings, Titus models noted, or equal.

Ceiling diffusers shall be 4-way throw, unless shown otherwise on drawings.

All diffusers and registers shall be furnished with opposed-blade dampers.

Exact location of all ceiling-mounted diffusers, grilles, and registers to be coordinated with lighting layout and reflected ceiling plan.

EQUIPMENT

Split system air conditioning units: Direct expansion split system air conditioning systems consisting of an outdoor, air cooled condensing unit and an indoor furnace-coil unit complete with direct-driven centrifugal blower assembly, evaporator coil with drain pan, natural gas-fired heating element and inlet filter rack with filter. Capacities shall be as scheduled on the drawings. Units shall be provided with a seven day programmable wall thermostat with "FAN ON-AUTO" control. Split system air conditioning units shall be Carrier, as scheduled, or approved equal.

Fans: Shall be Cook or Acurex models, as scheduled on the drawings, or equal. Roof mounted fans shall be spun aluminum, centrifugal type, complete with weatherproof housing, direct driven centrifugal fan wheel, electrically commutated (variable speed) motor, disconnect switch, birdscreen, factory fabricated roof curb compatible with the sloped roof type, curb extension and hinged base. Ceiling fans shall be centrifugal type, complete with perforated metal inlet grille, acoustically lined housing, disconnect switch, duct collar with gravity shutter and electronic speed controller attached to the fan housing, for balancing purposes. Wall propeller fans shall be axial flow type, direct or belt driven, as scheduled, complete with OSHA inlet guard, wall sleeve, disconnect switch and gravity backdraft damper. Fan F-12 shall be provided with a two-speed motor. Fans shall be Cook, as scheduled, or equal Acme, Penn, or equal. Capacities shall be as scheduled on the drawings.

Gas fired tubular radiant heaters: Heaters shall be low intensity tubular type, with forced combustion burner system, aluminized steel radiant tub heat exchanger, and stainless steel reflector. Heaters shall be straight tube, or u-tube design, as scheduled. Provide accessory side baffles, where scheduled. Heaters shall be Combustion Research Corp. Omega II series, or approved equal. Provide each heater with a wall mounted thermostat.

Engine Exhaust Air Filtration Units: Filtration units shall be self contained, suspended fan/filter units complete with bottom inlet grille, pre-filter, high efficiency (MERV 16) stage two filter, gas-phase extractor, centrifugal blower and four side-mounted discharge grilles. Units shall be AirVac 911, or approved equal.

Electric Wall Heaters: Heaters shall be wall mounted, architectural style electric heaters, complete with painted steel housing, extruded aluminum face panel with inlet and outlet louvers, integral disconnect switch and integral thermostat. Heaters shall be Markel, as scheduled, or approved equal.

Range Exhaust Hood: Range hood shall be UL-710 listed, commercial, type 430 stainless steel hood, complete with front mounted make-up air plenum, integral rear air space, duct collars, backsplash panel, left and right sidesplash panels, UL listed light fixtures, hood mounted fan and light controls, baffle type grease filters and Ansul R-102 fire suppression system, (suppression system components housed in separate, wall mounted panel enclosure). Hood shall be Accurex, as scheduled, or approved equal.

AUTOMATIC CONTROLS

Mechanical Contractor shall retain the services of a qualified automatic controls contractor.

The intent of this section is to obtain a complete, functional control for all mechanical equipment, systems, and devices of the project. This Contractor is to furnish and install, as required, electric/electronic or pneumatic controls, all necessary components, control wiring, interlock wiring, contactors, relays, control transformers, alarms, control valves, etc., to achieve the desired control operation for the air conditioning systems.

Control Wiring: Shall be #12 CU. THHN installed in EMT conduit (minimum 1/2-inch diameter) or plenum-rated cable.

Automatic Dampers: Automatic dampers shall be similar to Ruskin Model CD40. Automatic damper shall be factory-fabricated and sized, and provided by control manufacturer.

Sequence of Operation:

Each split system air conditioning unit (GF-1/Cu-1 through GF-4/CU-4) shall be controlled by a wall mounted seven-day programmable thermostat. When the system is in the occupied mode, the blower shall run continuously. In the unoccupied mode, the blowers shall cycle with the heating or cooling. The motorized outside air damper shall open whenever the unit is in the occupied mode and close whenever the unit is in the unoccupied mode.

Range hood make-up air furnace GF-5 shall be interlocked with the range hood exhaust fan (F-14) to run whenever the exhaust fan is running. A duct mounted thermostat, located in the outside air duct, shall energize the gas heating whenever the outdoor temperature drops below 40°F (adjustable).

Fans shall be controlled as indicated in the fan schedule.

Electric wall heaters shall be controlled by integral thermostats.

Gas-fired radiant tube heaters shall be controlled by wall mounted thermostats provided by the heater manufacturer.

Engine exhaust air filtration units shall be controlled by a wall mounted "ON-OFF-AUTO" controller. In the off position, the units are de-energized. In the on position, units run continuously. In the auto position, units are started by either a push-button switch or by a signal from a wall mounted CO/NO2 gas detection system, both provided by the unit manufacturer.

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COMMISSION NO:
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SHEET TITLE:
HVAC SPECIFICATIONS

SHEET NO:
M101

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SPLIT SYSTEM AIR CONDITIONING UNITS

INDOOR UNIT												OUTDOOR UNIT				NOTES
BLOWER DATA					COOLING DATA		EAT °F		HEATING DATA							
SYMBOL	SUPPLY CFM	O.A. CFM	E.S.P. IN. W.G.	MAX. HP	TOTAL MBH	SENS. MBH	DB	WB	GAS HEAT INPUT (BTUH)	GAS HEAT OUTPUT (BTUH)	AFUE	CARRIER MODEL	SYMBOL	AMB. TEMP	SEER	CARRIER MODEL	
GF-1	770	130	1.00	1/2	23.7	18.9	80	67	40,000	37,000	92.1	59SP2A040E17-12/CNPVP2417	CU-1	95°F	14.0	24ACC424	(1)
GF-2	870	160	1.00	1/2	28.1	20.9	80	67	60,000	56,000	92.1	59SP2A060E17-14/CNPVP3017	CU-2	95°F	14.5	24ACC430	(1)
GF-3	1400	260	1.00	3/4	44.8	31.5	80	67	80,000	75,000	92.1	59SP2A080E21-20/CNPVP4821	CU-3	95°F	14.5	24ACC448	(1)
GF-4	880	160	1.00	1/2	28.1	20.9	80	67	60,000	56,000	92.1	59SP2A060E17-14/CNPVP3017	CU-4	95°F	14.5	24ACC430	(1)
GF-5	450	450	0.80	1/2					40,000	37,000	92.1	59SP2A040E14-10					(2) (3)

(1) PROVIDE SEVEN-DAY PROGRAMMABLE WALL THERMOSTAT WITH FAN ON/AUTO CONTROL. SET FAN TO RUN CONTINUOUS DURING OCCUPIED HOURS.
(2) INTERLOCK BLOWER WITH RANGE HOOD EXHAUST FAN F-14. PROVIDE DUCT MOUNTED THERMOSTAT IN O/A DUCT TO ENERGIZE HEAT WHEN O/A TEMP. IS BELOW 40°F.
(3) PROVIDE FURNACE WITH STAINLESS STEEL HEAT EXCHANGER.

FANS

MARK	SERVICE	TYPE	CFM	ESP IN W.C	MAX. RPM	MAX. H.P.	DRIVE	MAX. SONES	CONTROLLED BY	MODEL	ACCESSORIES
F-1	TOILET EXH	CEILING FAN	80	0.25	860	1/10	DIRECT	1.2	WALL SWITCH	COOK GC-146	SEE NOTES 1 & 2
F-2	TOILET EXH	CEILING FAN	80	0.25	860	1/10	DIRECT	1.2	WALL SWITCH	COOK GC-146	SEE NOTES 1 & 2
F-3	LAUNDRY EXH	CEILING FAN	160	0.25	1160	1/10	DIRECT	3.5	WALL SWITCH	COOK GC-168	SEE NOTES 1 & 2
F-4	TOILET EXH	CEILING FAN	80	0.25	860	1/10	DIRECT	1.2	WALL SWITCH	COOK GC-146	SEE NOTES 1 & 2
F-5	ICE MACH EXH	CEILING FAN	120	0.25	1070	1/10	DIRECT	2.4	WALL T'STAT	COOK GC-148	SEE NOTES 1 & 2
F-6	LOCKER EXH	CEILING FAN	200	0.25	1400	1/10	DIRECT	2.0	WALL SWITCH	COOK GC-522	SEE NOTES 1 & 2
F-7	TOILET EXH	CEILING FAN	80	0.25	860	1/10	DIRECT	1.2	WALL SWITCH	COOK GC-146	SEE NOTES 1 & 2
F-8	MECH RM EXH	CEILING FAN	150	0.25	1150	1/10	DIRECT	3.4	WALL T'STAT	COOK GC-168	SEE NOTES 1 & 2
F-9	STORAGE VENT	WALL PROP	500	0.25	1090	1/4	DIRECT	5.7	WALL SWITCH	COOK 12XP26D17EC	SEE NOTES 2 & 3
F-10	COMP RM VENT	WALL PROP	800	0.25	1470	1/4	DIRECT	8.7	WALL SWITCH	COOK 12XP32D17EC	SEE NOTES 2 & 3
F-11	LAUNDRY VENT	WALL PROP	600	0.25	1300	1/4	DIRECT	6.9	WALL SWITCH	COOK 12XP26D17EC	SEE NOTES 2 & 3
F-12	APP BAY VENT	WALL PROP	12000	0.25	505	2.0	BELT	26.5	2-SPD SWITCH	COOK 42XLP	SEE NOTES 3 & 4
F-13	JANITOR EXH	CEILING FAN	120	0.25	1070	1/10	DIRECT	2.4	WALL SWITCH	COOK GC-148	SEE NOTES 1 & 2
F-14	RANGE EXH	ROOF CENT	500	0.90	1834	1/2	DIRECT	–	HOOD SWITCH	ACCUREX XRUD-101HP-VG	SEE NOTE 5

NOTE 1: PROVIDE FAN WITH INLET GRILLE, ACOUSTICALLY LINED HOUSING, DISCONNECT, OUTLET DUCT COLLAR WITH GRAVITY SHUTTER AND WALL CAP.
NOTE 2: PROVIDE FAN WITH SPEED CONTROLLER (MOUNTED INSIDE MOTOR HOUSING), FOR BALANCING.
NOTE 3: PROVIDE FAN WITH INLET GUARD, WALL SLEEVE, DISCONNECT SWITCH AND GRAVITY BACKDRAFT DAMPER.
NOTE 4: PROVIDE FAN WITH TWO-SPEED MOTOR AND "OFF-HIGH-LOW" WALL SWITCH.
NOTE 5: PROVIDE FAN WITH BIRDSCREEN, DISCONNECT SWITCH, ROOF CURB (5/12 SLOPE), CURB EXTENSION, HINGED BASE AND GREASE TRAP.

ELECTRIC HEAT

MARK	SERVICE	TYPE	CFM	Δ P IN	BLOWER HP	KW	STEPS	MODEL	REMARKS
EWH-1	MECH ROOM	WALL HEATER	245	–	1/10	2.0	1	MARKEL 3420 SERIES	WITH INTEGRAL DISCONNECT & THERMOSTAT
EWH-2	STORAGE ROOM	WALL HEATER	245	–	1/10	3.0	1	MARKEL 3420 SERIES	WITH INTEGRAL DISCONNECT & THERMOSTAT
EWH-3	COMPRESSOR ROOM	WALL HEATER	245	–	1/10	2.0	1	MARKEL 3420 SERIES	WITH INTEGRAL DISCONNECT & THERMOSTAT
EWH-4	LAUNDRY ROOM	WALL HEATER	245	–	1/10	3.0	1	MARKEL 3420 SERIES	WITH INTEGRAL DISCONNECT & THERMOSTAT

GAS FIRED INFRARED HEATERS

SYMBOL	HEATER TYPE	INPUT BTUH	AFUE	REFLECTOR LENGTH	TUBE DIAMETER	FAN HP	COMBUSTION RESEARCH CORP. MODEL NUMBER	REMARKS
GRH-1	GAS INFRARED TUBE HEATER	60,000	80%	29'-10"	4.0	1/8	OMEGA II 0918-NG-S	(1)
GRH-2	GAS INFRARED TUBE HEATER	60,000	80%	29'-10"	4.0	1/8	OMEGA II 0918-NG-S	(1)
GRH-3	GAS INFRARED TUBE HEATER	60,000	80%	29'-10"	4.0	1/8	OMEGA II 0918-NG-S	(1)
GRH-4	GAS INFRARED TUBE HEATER	60,000	80%	29'-10"	4.0	1/8	OMEGA II 0918-NG-S	(1)
GRH-5	GAS INFRARED TUBE HEATER	60,000	80%	14'-8"	4.0	1/8	OMEGA II 0918-NG-U	
GRH-6	GAS INFRARED TUBE HEATER	60,000	80%	14'-8"	4.0	1/8	OMEGA II 0918-NG-U	
GRH-7	GAS INFRARED TUBE HEATER	60,000	80%	14'-8"	4.0	1/8	OMEGA II 0918-NG-U	
GRH-8	GAS INFRARED TUBE HEATER	60,000	80%	14'-8"	4.0	1/8	OMEGA II 0918-NG-U	

(1) PROVIDE REFLECTOR WITH SINGLE SIDE SHIELD. MOUNT AT 30° ANGLE TOWARD CENTER OF BAY.

ENGINE EXHAUST AIR FILTRATION UNITS

MARK	SERVICE	AIR FLOW CFM	MAX. H.P.	PREFILTER TYPE	MAIN FILTER TYPE	FINAL FILTER TYPE	MODEL	REMARKS
AFU-1	APPARATUS BAY	2000	1.0	THROW-AWAY	MERV 16 HEPA	GAS PHASE EXTRACTOR	AIRVAC 911	(1)
AFU-2	APPARATUS BAY	2000	1.0	THROW-AWAY	MERV 16 HEPA	GAS PHASE EXTRACTOR	AIRVAC 911	(1)
AFU-3	APPARATUS BAY	2000	1.0	THROW-AWAY	MERV 16 HEPA	GAS PHASE EXTRACTOR	AIRVAC 911	(1)
AFU-4	APPARATUS BAY	2000	1.0	THROW-AWAY	MERV 16 HEPA	GAS PHASE EXTRACTOR	AIRVAC 911	(1)

(1) PROVIDE UNIT WITH AVEC-4C SMART TIMER, CO/NO2 COMBO SENSOR AND MANUAL PUSH-BUTTON OVERRIDE SWITCH.

KITCHEN HOODS

SYMBOL	TYPE	DIMENSIONS	EXHAUST CFM	SUPPLY CFM	MODEL	ELECTRICAL CHARACTERISTICS	REMARKS
KH-1	WALL MOUNT	3'-4" X 3'-3"	500	450	ACCUREX XBEW-40-S	120V, SINGLE PHASE	SEE NOTE 1

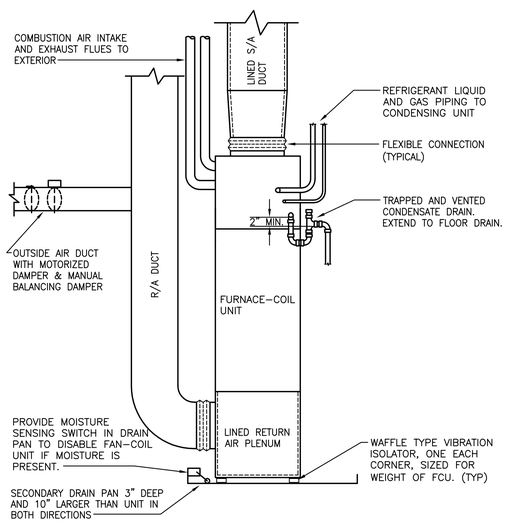
NOTE 1. HOOD SHALL BE CONSTRUCTED OF TYPE 430 STAINLESS STEEL, AND DESIGNED FOR MEDIUM COOKING LOADS. PROVIDE HOOD WITH INCANDESCENT, VAPOR TIGHT LIGHTING, STAINLESS STEEL BAFFLE TYPE GREASE FILTERS, CEILING CLOSURE PANEL ON THREE SIDES, BACKSPLASH, LEFT AND RIGHT SIDESPLASHES AND ANSUL R102 FIRE SUPPRESSION SYSTEM, MOUNTED ON ADJACENT WALL. HOOD SHALL BE UL710 LISTED.

AIR DISTRIBUTION DEVICES

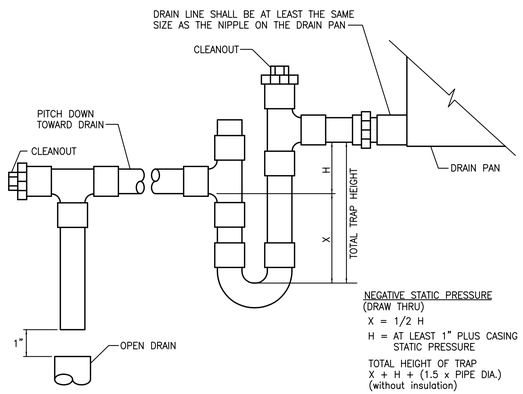
MARK	TYPE	NECK SIZE	OBD	FINISH	MODEL	REMARKS
A	LAY-IN CEILING DIFFUSER	6"ø	YES	OFF-WHITE	PRICE SCD, FRAME 31, 24X24 LAY-IN	
B	LAY-IN CEILING DIFFUSER	8"ø	YES	OFF-WHITE	PRICE SCD, FRAME 31, 24X24 LAY-IN	
C	SIDEWALL SUPPLY REGISTER	12X6	YES	OFF-WHITE	PRICE 520D-F-S-A	
D	LAY-IN RETURN AIR GRILLE	8"ø	NO	OFF-WHITE	PRICE PDDR, FRAME 3, 12X24 LAY-IN	
E	LAY-IN RETURN AIR GRILLE	12"ø	NO	OFF-WHITE	PRICE PDDR, FRAME 3, 24X24 LAY-IN	
F	LAY-IN RETURN AIR GRILLE	18"ø	NO	OFF-WHITE	PRICE PDDR, FRAME 3, 24X24 LAY-IN	
G	SIDEWALL RETURN AIR GRILLE	12X8	NO	OFF-WHITE	PRICE 530-F-L-A	
H	CEILING EXHAUST GRILLE	48X48	NO	OFF-WHITE	PRICE 82-F, WITH HINGED FRAME & INSECT SCREEN	
J	SIDEWALL TRANSFER GRILLE	24X24	NO	OFF-WHITE	PRICE 530-F-L-A	
K	OUTSIDE AIR INTAKE GRILLE	12X12	NO	OFF-WHITE	PRICE 81-F-A, WITH INSECT SCREEN	
L	OUTSIDE AIR INTAKE REGISTER	16X16	YES	OFF-WHITE	PRICE 530D-F-L-A, WITH INSECT SCREEN	
M	OUTSIDE AIR INTAKE GRILLE	18X18	NO	OFF-WHITE	PRICE 81-F-A, WITH INSECT SCREEN	
N	OUTSIDE AIR INTAKE GRILLE	32X40	NO	OFF-WHITE	PRICE 510-F-L-A	

HVAC LEGEND

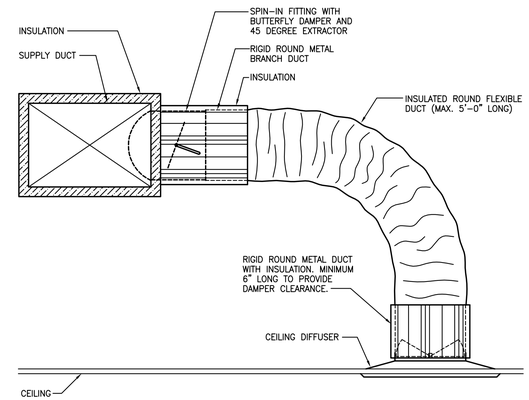
	SLOT DIFFUSER
	SUPPLY DIFFUSER
	RETURN OR EXHAUST GRILLE
AxB	DUCT DIMENSION: A – HORIZONTAL B – VERTICAL
R	DUCT RISE
D	DUCT DROP
	DUCT WITH ACOUSTICAL LINER
	DUCT TURN DOWN
	DUCT TURN UP
	FLEXIBLE DUCT CONNECTION
	FLEXIBLE DUCTWORK
	SPIN-IN FITTING
	FIRE DAMPER
D	CONDENSATE DRAIN LINE
	90° ELBOW WITH TURNING VANES
	OPPOSED BLADE DAMPER (PLAN)
	OPPOSED BLADE DAMPER (SECTION)
	FABRIC DUCT/DIFFUSER
SD	SMOKE DETECTOR
N	NIGHT SETBACK THERMOSTAT
	COMBINATION STARTER/DISCONNECT
	THERMOSTAT
$	FAN SWITCH
X / Y	EQUIPMENT DISIGNATION: X – EQUIPMENT Y – EQUIPMENT NUMBER
X / CFM	AIR DISTRIBUTION DEVICE: X – LETTER DEVICE CFM – AIR QUANTITY IN FT^3/MIN.



4 M102 **DETAIL - FURNACE-COIL UNIT**
NOT TO SCALE



1 M102 **CONDENSATE DRAIN TRAP DETAIL**
NOT TO SCALE



2 M102 **CEILING DIFFUSER RUNOUT DETAIL**
NOT TO SCALE

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DATE	COMMENTS
09.27.2018	BID SET / PERMIT SET

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FAYETTE CO.
FIRE STATION
NO. 4

278 MCELROY ROAD
FAYETTEVILLE, GEORGIA

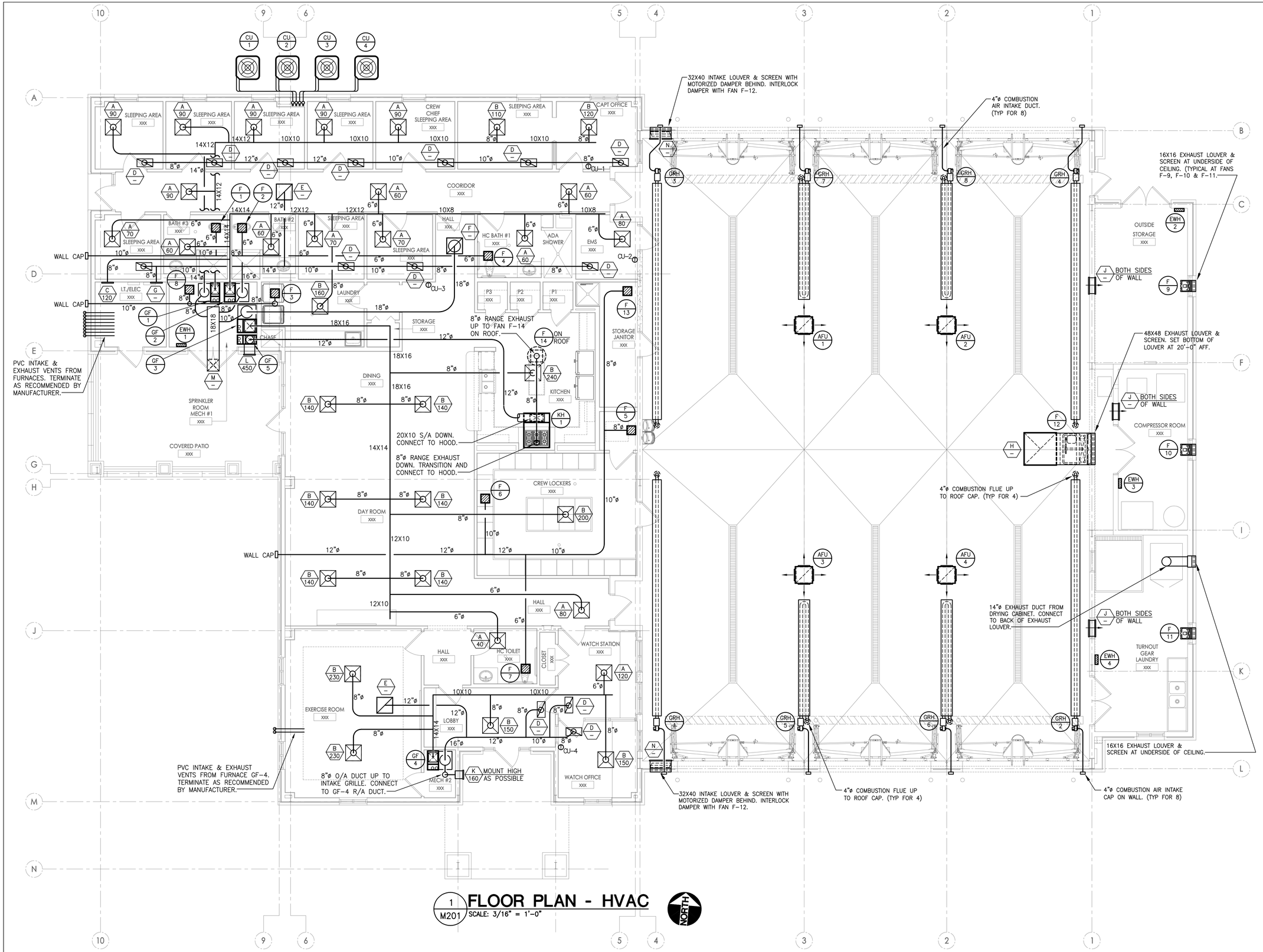
Prepared for
FAYETTE CO.
FIRE DEPT

COMMISSION NO:
1748.00

SHEET TITLE:
HVAC DETAILS & SCHEDULES

SHEET NO:
M102

NOT ISSUED FOR CONSTRUCTION



1 M201 **FLOOR PLAN - HVAC**

SCALE: 3/16" = 1'-0"

architecture
interiors
town planning

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FAYETTE CO. FIRE STATION NO. 4

278 MCELROY ROAD
FAYETTEVILLE, GEORGIA

Prepared for
FAYETTE CO. FIRE DEPT

COMMISSION NO:
1748.00

SHEET TITLE:
FLOOR PLAN - HVAC

SHEET NO:
M201

NOT ISSUED FOR CONSTRUCTION

#	Rv #	ELECTRICAL CRITERIA - GENERAL CONDITIONS	Check Off
EC-01	-	PERMITS & FEES: Secure & pay for all fees, licenses, permits, inspections. Submit Copy Of Each Permit.	
EC-02	-	LICENSE(S)-BUSINESS: This Contactor Shall Be Properly Licensed Business Wise, In This Project State, In Accordance With All Applicable State Laws. Submit Copies Of Business License(s).	
EC-03	-	BONDING & INSURANCE(s): This Contactor Shall Be Properly Bonded And Insured In Accordance With The General & Supplements Requirement Of The Project Document. Submit Copies Of All Such Documents.	
EC-04	-	COORDINATION OF OTHER TRADES- This contractor is responsible for coordinating with all other trades for the proper installation of this work, maintaining required clearances, and confirming the electrical characteristics and requirement of electrical power equipment of other trades (prior to ordering equipment). Submit Copies Of All Such Documents.	
EC-05	-	MANUFACTURERS, ALTERNATES & SUBSTITUTIONS- Components & products are to be provided matching the prescribed characteristics, features, performance, types, etc. based on the Manufacturer & Series as given. NO After-"Bid" Alternates, Changes Or Substitutions Accepted Or Allowed. Prior-To-Bid Request For Acceptance Must Be Submitted To Architect & Engineer NO-LESS Than Two-Business-Weeks Prior To Bid Date. Request-For-Acceptance Must Include Complete & Marked Product Data Indicating Full Matching Compliance. Any Variations Must Be Marked & Noted. Acceptance Will Be At The Description Of The A/E Judgment.	
EC-06	-	SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to be used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions.	
EC-07	-	WARRANTY- This contractor shall warrant all materials, labor & installation for one full year from date of Substantial Completion. Any extended product warranties shall be passed onto the owner.	
		End Of Electrical Criteria - General Conditions	

#	Rv #	ELECTRICAL CRITERIA - BASICS CRITERIA	Check Off
EB-01	-	GENERAL- Provide a complete electrical system, left in proper working order. Provide herein means installed completely, including labor & materials.	
EB-02	-	LICENSE(S)-ELECTRICAL: This Contactor Shall Be Fully Licensed To Perform Electrical Work, In This Project State, For The Type Of Work To Be Performed In Accordance With All Applicable State Laws. Submit Copies Of Electrical License(s).	
EB-03	-	CODES - Meet & comply with all prevailing Federal, State, County & City Codes Including NEC (NFPA-70); ICC-BC & any Ga Amendments; ICC-IEC & any Ga Amendments.	
EB-04	-	PERMITS & FEES: Secure & pay for all fees, licenses, permits, inspections. Submit Copy Of Each Permit.	
EB-05	-	COORDINATION OF POWER UTILITY- Coordinate & verify, in writing, with the utility power company, confirming the electrical power arrangements, characteristics (Voltage, Phase, Transformer Type & KVA, Fault-Current, Etc.), metering arrangement and equipment locations. Copy Own/ Archt/ Engr.	
EB-06	-	COORDINATION OF LV COMMUNICATIONS UTILITY- Coordinate & verify, in writing, with the LV Communications Utility Company, confirming the LV Com Service routing, conduit quantity & sizes, termination locations, and other related requirements.	
EB-07	-	PROVISIONS TO BE INCLUDED- Labor, supplies and materials, tools, equipment, etc.; installation of all electical equipment & connections; coordination with other trades; material shipping, delivery, receiving, storage, & protection; excavation, backfilling, cutting, patching and cleaning; guarantee for one year, plus any extended manufacturer's warranties; as-built reproducible Mylar record documents.	
EB-08	-	MATERIALS- All materials shall be new, currently manufactured, U.L. labeled, and meet all industry standards. Label all equipment. Provide 3000 PSI class concrete for bases and backfill. Provide 3/4" thick A/D fire retardant grade backboards. Provide all support hardware and systems for electrical work. Fire/smoke seal each penetration of any rated barrier (floor, wall, etc.).	
EB-09	-	MOTORS & CONTROLS- Motors are furnished and installed under other specification sections. Control and interlock wiring is furnished and installed under other specification sections. Individually mounted starters are furnished under other sections, mounted and power wiring connections provided under this section.	
EB-10	-	ELECTRICAL CONNECTIONS- Provide power wiring complete to all items. Coordinate actual equipment characteristics with drawing. Provide backboards for equipment mounting. Label all equipment and over-current protective devices with equipment name, voltage, ratings, and O.C.P. ratings.	
EB-11	-	INSTALLATION STANDARDS: All electrical work shall be installed in accordance with the NEC, NEIS (Nat. Electrical Installation Stds.), related codes and the manufacturer's published requirements.	
		End Of Electrical Criteria - Basic Materials & Methods	

#	Rv #	ELECTRICAL CRITERIA - BONDING & GROUNDING	Check Off
EG-01	-	BONDING & GROUNDING GENERAL: Provide components, conductors, fittings and hardware to provide for an electrical system that is completely bonded and grounded with the NEC and these requirements	
EG-02	-	GENERAL REQUIRMENTS: Provide for the complete Bonding & Grounding of the entire electrical system, including bonding for communication systems.	
EG-03	-	BUILDING BONDING: Provide for the Bonding together of all metallic systems in the facility, including but not limited to, structural steel, slab rebar, water piping, fire-protection piping, gas piping, HVAC system piping.	
EG-04	-	SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to be used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions.	
EG-05	-	GROUNDING IN-GRADE CONDUCTORS: Bare, Tin-Plated Copper Of Size & Rating As Scheduled or Required.	
EG-06	-	BONDING & GROUNDING CONDUCTORS:- #10 and smaller - solid copper THHN/THWN Green Jacket Color; #6 & 8 - stranded copper THHN/THWN black jacket; #4 & larger - stranded copper THHN/THWN identified with Green Tape.	
EG-07	-	CONNECTIONS, IN-GRADE TYPE: UL Labeled for the application, location & use. Heavy-Duty Pure Wrought Copper fitting & devices. Compression type connections. BURNDY HYGROUND Series or Equivalent.	
EG-08	-	CONNECTIONS, COPPER- Twist on type for #8 and smaller copper conductors. Set screw/bolted type for #4 and larger copper conductors. Completely insulate each connection, splice, termination.	
EG-09	-	GROUND RODS (ERITECH 683400 Rod): Provide 10 Foot Long, 0. 75 In Diameter, Tin-On-Copper 10 Mil. Plated Steel Pointed Ground Rod, driven into earth with top 18 Inches below finished grade with inspection/ test well cover, top flush with grade. ANSI/UL-467 & ANSI/ NEMA-GR1. Mechancial Direct-Burial Ground Connector or Exothermic-Weld all ground cables to rods.	
EG-10	-	GROUND ROD INSPECTION WELLS/ ERITECH Wells - Where indicated or required, provide Ground Rod Inspection/ Test Well & Cover, top flush with grade.	
EG-11	-	MASTER GROUND BAR (MGB) (BURNDY BBB or ERICO TGB/TMGB)- Provide bare solid Alloy 110 Cu bus bar, electro-tin-plated, with pre-punched holes for two-bolt ground lugs, mounted on stainless steel brackets with insulated flame-resistant stand-offs. 0.25 Inch Thick, 4 Inch High, 20 Inch Long. UL 467 & C22.2 Listed. Anchor to structural wall at height as indicated or noted. Connection to this bar shall be by two-hole bolt lugs, exothermic welded or irreversible crimp connected to the respective cable. Locate at or near the electrical service main disconnect. Label MASTER GROUND BAR	
EG-12	-	ISBT (Inter-System-Bonding-Termination) GROUND BAR (ISBT) (ILSCO PET or Equal): Provide dual-rated, 8-hole lug with 2-predrilled mounting holes. Attach to each TELCO backboard for bonding of LV systems by others. Label ISBT GRND.	
EG-13	-	INSTALLATION STANDARDS: All bonding & grounding shall be installed in accordance with the NEC, NEIS (Nat. Electrical Installation Stds.), related codes and the manufacturer's published requirements.	
		End Of Electrical Criteria - Bonding & Grounding	

#	Rv #	ELECTRICAL CRITERIA - CONDUITS, BOXES & FITTINGS	Chk Off
ER-01	-	GENERAL- All wiring for power and systems shall done in accordance with the applicable codes. All materials shall be U.L. labeled, matched for proper applications and installed in accordance with U.L. & manufacturer's requirements.	
ER-02	-	SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to be used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions.	
ER-03	-	GENERAL UNDERGROUND- All underground, in-slab, exterior and exposed or surface mounted wiring shall be in conduits, unless otherwise directed.	
ER-04	-	GENERAL CONCEALED- All wiring shall be concealed where possible (i. e. -above ceilings, in walls, in slabs, or underground).	
ER-05	-	GENERAL EXPOSED- Exposed conduits shall be routed as high as possible and parallel or perpendicular to structural elements.	
ER-06	-	GENERAL BOXES- Provide boxes for all connections, devices, system, etc. Coordinate box sizes with structure to which it will be secured. Coordinate the exact final box location with the architectural/interior drawings prior to rough-in of box.	
ER-07	-	CONDUITS, IMC- conduit & fittings shall be utilized for exterior exposed locations and interior exposed locations subject to damage.	
ER-08	-	CONDUITS, EMT- EMT conduit & fittings shall be utilized for in slabs not on grade, concealed dry interior locations, interior exposed locations above 10'0" A. F. F.with set screw fittings indoor concealed dry locations and compression raintight fittings in slabs, and damp locations.	
ER-09	-	CONDUITS, PVC- conduit & fittings shall be utilized in slabs on grade, conduits in earth. PVC fittings, boxes, etc. shall be of same manufacture with solvent bond. Depth per code.	
ER-10	-	CONDUITS, FLEXIBLE- Flexible metallic conduit & fittings shall be utilized where motion or vibrations are encountered. Liquid-tight type flex shall be used in damp or wet locations, (i. e. - outdoors, kitchens, areas subject to wash down, shops & industrial areas, etc.). Provide ground wire in all flex.	
ER-11	-	CONDUIT MISC. FITTINGS- Conduit expansion/deflection fittings shall be utilized where crossing expansion joints, floating slabs or isolated slabs. Conduit thru wall seals shall be utilized where crossing between interior/exterior or damp locations. Conduit fire seals shall be utilized where passing thru fire rated construction, U. L. fire and smoke seal to maintain the fire rating of the barrier.	
ER-12	-	CONDUIT BOXES- Utilize interior stamped steel for indoors dry flush mounted devices. Masonry/tile for indoors dry flush mounted devices. Concrete boxes for flush mounting in poured concrete. Cast metal boxes for surface mounted devices, or damp/wet locations. Junction & pull boxes as required or needed. Galvanized steel wire-ways with hinged front cover, only permitted where noted.	
ER-13	-	FLOOR BOXES - Utilize flush-in-floor type, adjustable post-pour, PVC base with brass flip-lid covers. Gang qty to match application & conduit entries., Covers to match device types. Hubbell, Steel City or Wiremold	
ER-14	-	SEISMIC BRACING & SUPPORT- All work shall be anchored, braced & supported in accordance with he Local Seismic Zone rating requirements.	
ER-15	-	INSTALLATION STANDARDS: Each item shall be installed in accordance with the NEIS (Nat. Electrical Installation Stds.), NEC & related codes and the manufacturer's published requirements.	
		End Of Electrical Criteria - Conduits, Boxes & Fittings	

#	Rv #	ELECTRICAL CRITERIA - LOW VOLTAGE CONDUCTORS	Chk Off
EC-01	-	CONDUCTORS GENERAL: Provide conductors for all circuiting, wiring and systems.	
EC-02	-	SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to be used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions.	
EC-03	-	CONDUCTORS COLOR CODED: Each conductor shall be properly color coded to represent it's respective phase, neutral, ground, etc. Wire sizes #12 thru #8 shall have continuous color-coded jacket. Larger wire sizes shall have colored tape at each termination, pull-box, etc.	
EC-04	-	CONDUCTOR LABELING: Each circuit labeled on the conductor and at each box.	
EC-05	-	CONDUCTORS, COPPER- #12 & #10 - solid copper THHN/THWN color coded; #6 & 8 - stranded copper THHN/THWN black jacket; #4 & larger - stranded copper THHN/THWN. No conductors less than #12 Cu allowed, unless specifically noted or control wiring.	
EC-06	-	CONDUCTORS, ALUMINUM- Aluminum (AL) not permitted unless noted. Where noted, conductors shall be compact strand type, THHN/ THWN.	
EC-07	-	CONNECTIONS, COPPER- U.L. Listed, 600V, 90C rated; Twist on type for #8 and smaller copper conductors. Set-Screw, Bolted or Compression type for #4 and larger copper conductors. Completely insulate each connection, splice, termination.	
EC-08	-	CONNECTIONS, ALUMINUM- U.L. Listed, 600V, 90C rated, compression, split-bolt, or set-screw type(s),for Aluminum or Dual-Rated. Completely insulate each connection, splice, termination.	
EC-09	-	CONNECTIONS, DAMP & WET LOCATION- UL Listed 486D type connector for damp & wet locations, sealant filled type. IDEAL Model 66 or Equal	
EC-10	-	CONNECTIONS, IN-GRADE, UNDER-GROUND, SUBMERSIBLE, WATER-TIGHT- UL Listed 486D, 600V, 90C rated for In-Grade, Direct-Burial, Submersible.	
EC-11	-	GROUNDING CONNECTIONS, IN-GRADE, UNDER-GROUND, SUBMERSIBLE- UL 467 Listed, 90C rated, Compress Or Bolt Type With Inhibiting compound; For Use In Earth or Concrete.	
EC-12	-	METAL-CLAD (MC) CABLE (CONCEALED WIRING)- Contractor may utilize Metal-Clad (Type MC) for interior concealed branch circuit wiring in accordance with the code. All materials, fittings, hardware, etc. shall be U.L. labeled for use with MC cable and properly installed and supported. Type MC cable shall have an integral full length ground conductor, bonded to a ground lug or terminal at each end.	
EC-13	-	INSTALLATION STANDARDS: All wiring & connects shall be installed in accordance with the NEIS (Nat. Electrical Installation Stds.), NEC & related codes and the manufacturer's published requirements.	
		End Of Electrical Criteria - Low Voltage Conductors	

#	Rv #	ELECTRICAL CRITERIA - LOW VOLT. ELECT. DISTRIB. GEAR	Chk Off
		GENERAL ITEMS	
ED-01	-	GENERAL- Provide Low-Voltage Electrical Distribution Gear as required to provide for a complete system to distribute electrical power.	
ED-02	-	ELECTRICAL RATINGS- Prior to ordering or submitting any electrical distribution equipment, verify all equipment ratings (Voltages, Phase, Short-Circuit With-Stand & Interrupting Ratings).	
ED-03	-	EQUIPM. DIMENSIONS, CLEARANCES & ACCESS: Prior to ordering or submitting any electrical distribution equipment, verify dimensions, space requirements, clearances, access and interference with work of other trades.	
ED-04	-	SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to be used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions.	
		LABELING & INSTALLATION	
ED-10	-	EQUIPMENT LABELS: Provide Engraved Melamine Equipment Labels, Adhesive Attached To The Items Face Or Interior Cover. Label To Include Equipment Name, Voltage(s) And OCP Device Ratings If Applicable.	
ED-11	-	SAFETY & WARNING LABELS: Provide Clear & Legible Safety & Warning Labels On Each Item Of Electrical Distribution Gear As Required By The NEC, OSHA & Other Regulations.	
ED-12	-	ARC-FLASH LABELS: Provide Clear & Legible Arc-Flash Labels On Each Item Of Electrical Distribution Gear, Giving The Minimum Ratings, Arc-Flash Energy Level & Required PPE For Each Specific Location.	
ED-13	-	SIESMIC BRACING & SUPPORT- Equipment shall be anchored, braced & supported in accordance with he Local Seismic Zone rating requirements.	
ED-14	-	INSTALLATION STANDARDS: Each item shall be installed in accordance with the NEIS (Nat. Electrical Installation Stds.), NEC & related codes and the manufacturer's published requirements.	
		LOW VOLTAGE OVER-CURRENT PROTECTIVE DEVICES	
ED-21	-	OCP GENERAL- Provide over-current-protective (O.C.P.) devices as required by code and/or otherwise prescribed. All lugs and terminals 60/75 deg. C rated.	
ED-22	-	MOLDED CASE (MC) CIRCUIT BREAKERS- Thermal-magnetic, bolt-in, quick-make/quick-break type. Trip free operation with ON, OFF & TRIPPED position. Monolithic tie-handle common trip and common reset multi-pole breakers. Trip rating molded on handle or face. Lugs to match cable type terminations. Single pole 15 and 20 ampere breakers to be "SWITCHING" rated.	
ED-23	-	DISCONNECT REQUIRMENTS - NEMA 1 enclosure indoors, NEMA 3R for damp/wet locations. Voltage, poles, amperage, fusible as required. Equipped with both isolated neutral and ground lugs. Class H, J, R or T fuse with rejection features. Provide switch label.	
ED-24	-	DISCONNECTS 30AMP. – 200AMP (240V Max) - Labeled per UL #98. NEMA KS1 general duty type, load make/break rated. Interrupting rating of 100,000 RMS amps (with R/ T fuse).	
ED-25	-	DISCONNECTS 400 & 600 AMPERES - Labeled per UL #98. NEMA KS-1 heavy duty type, load make/break rated. Interrupting rating of 200,000 RMS amps (with fuse).	
ED-26	-	DISCONNECT OVER 600 AMPERES- Labeled per Ulf #977, bolted pressure or high pressure contact type. NEMA heavy duty type, load make/break rated. Accept Class L fuses (as required). Interrupting rating of 200,000 RMS (with fusing). Manual close - manual/electric trip open. Load side phase under voltage detection/trip. Zero sequence GFCI on switches 1000A @ 277 and greater.	
ED-27	-	FUSES- Fuses shall be of same make, manufacturer, type & rating where providing two or three wire O.C.P. at a device. Provide Busman LOW-PEAK KRP-C. fuses (U.L. 198 C Class L) for protection over 600 amperes. Provide Busman LOW-PEAK LPN-RK (250V) or LPS-RK (600V) (U.L. 198E Class RK1) for protection up to 600 amperes.	
		PANELBOARDS	
ED-30	-	PANELBOARDS GENERAL- Provide dead front design with hinged & locking front cover door, NEMA 1 cabinet unless otherwise noted and with devices as scheduled. Voltage, phase, ampacity and devices as scheduled. Service entrance rated as applicable. Series rated and labeled, unless indicated otherwise. Flush or surface mounted NEMA 1 enclosure. All lugs & terminals 60/75 deg. C rated.	
ED-31	-	PANELBOARD STANDARDS- Labeled UL 67 and 50 (Cabinets, Boxes & Trim); NEMA 250 and PB1; NFPA 70-384 and 373; Federal Specs. W-P-115c; Circuit Breakers- Type I Class 1 & Fusible Switches- Type II, Class 1.	
ED-32	-	SHORT CIRCUIT RATING & ARC-FLASH LABELS: Match or exceed the Available Short Circuit Current available at the actual panel location; Properly label with Arc-Flash Energy Level & protective requirements (PPE).	
ED-33	-	PANELBOARD INTERIOR- Factory assembled, double row construction. Staggered numbering, sequence phased. Tin-plated copper or aluminum busing. Full ampacity phase & neutral bus, 50% ground bus.	
ED-34	-	OCP DEVICES, COMPONENTS, ETC: Provide all over-current-devices and other components and related as scheduled and / or required. Refer to panel schedule for details. Refer to Over-Current Protective (OCP) devices criteria.	
ED-35	-	PANEL DIRECTORIES - All Panel Directories Shall Be Current, Fully Detailed & Legible Per NEC-110.22 & 408.4(A)	
		SWITCHBOARDS	
ED-40	-	SWITCHBOARDS GENERAL- Provide equipment with dead front design and with devices as scheduled. Voltage, phase, ampacity and devices as scheduled. Service entrance rated as applicable. Free-Standing, NEMA 1 enclosure unless otherwise required. All lugs & terminals 60/75 deg. C rated.	
ED-41	-	SWITCHBOARD STANDARDS- The equipment and all installed components shall be UL Listed & Labeled. Labeled UL 891; NEMA 250 and PB2; NFPA 70-384 and 373; Federal Specs. W-P-115c; Circuit Breakers- Type I Class 1 & Fusible Switches- Type II, Class 1.	
ED-42	-	SHORT CIRCUIT RATING & ARC-FLASH LABELS: Match or exceed the Available Short Circuit Current available at the actual panel location; Properly label with Arc-Flash Energy Level & protective requirements (PPE).	
ED-43	-	SWITCHBOARD INTERIOR- Factory preassembled, sequence phased. Tin-plated copper or aluminum busing unless otherwise noted. Full ampacity phase & neutral bus, 50% ground bus.	
ED-44	-	OCP DEVICES, COMPONENTS, ETC: Provide all over-current-devices and other components and related as scheduled and / or required. Refer to panel schedule for details. Refer to Over-Current Protective (OCP) devices criteria.	
ED-45	-	CIRCUIT DIRECTORIES - All Circuit Directories Shall Be Current, Fully Detailed & Legible Per NEC-110.22 & 408.4(A)	
		TRANSFORMERS	
ED-50	-	TRANSFORMERS GENERAL- Provide dead-front dry-type transformer. Labeled per UL #506, conform with NEMA #250, #ST20 and TR27. General purpose air-cooled dry-type construction. Size, capacity, primary and secondary voltage, as indicated. NEMA 1 enclosure for indoor dry locations, NEMA 3R enclosure for damp/wet locations. Dead-front construction with removable covers. Maximum temperature rise by resistance of 115 degrees C. in a 40 degrees C. ambient. 75 degrees C. maximum terminal compartment with 60/75 degree C. lugs to match the conductor types. Two 2-1/2% above normal and four 2-1/2% below normal full capacity winding taps.	
		End Of Electrical Criteria - Low Voltage Electrical Distribution Gear	

#	Rv #	ELECTRICAL CRITERIA - LIGHTING FIXTURES	Chk Off
EL-01	-	GENERAL- Provide a complete system of lighting, including but not limited to, lighting fixtures, lamps, lighting controls, hardware, support and related wiring. The lighting system shall be installed complete & left in proper operation & function.	
EL-02	-	PRE_SUBMITTAL COORDINATION - Prior to issuing product submittals and / or ordering this contractor shall review & coordinate the specific construction each fixture is to be installed in, any Fire-Ratings, fixture mounting & support, & attachment methods, & ballast voltages. Dimmed fixtures shall be coordinated with their respective dimmer controls for comp ability. Fixtures that are to be fitted to Architectural features (i.e.-coves, slots, etc.) shall be coordinated with the respective trades prior to submitting.	
EL-03	-	SUBMITTALS - Prepare & submit project specific product documentation, including but not limited to , fixture cut-sheets with all model numbers, features & option indicated; specific lamps type(s). Custom type fixtures shall include the manufacturers shop fabrication drawings.	
EL-04	-	CODES & REQUIRMENTS- Each fixture shall be U.L. Labeled. Comply with the requirement of the NEC. Installation shall comply with the N.E.I.S. Emergency Lighting & Egress Signage shall comply with NFPA-101.	
EL-05	-	ENERGY EFFICENCY CODES- Each fixture shall conform with energy code requirements.	
EL-06	-	MANUFACTURERS SERIES- The Lighting Fixture Schedule describes the fixture type, features, lamp(s), and other characteristics that is to be provided. The Manufacturer's Model Number are provided as a reference to the grade, quality, features & components required. It is the responsibility of this Contractor to verify with the Manufacturer the actual final correct fixture make & model number required and to be submitted.	
EL-07	-	MANUFACTURER(S) BASIS - The projects base quote shall be based on the prescribed Manufacturer(s) as identified in the Lighting Fixture Schedule.	
EL-08	-	ALTERNATE MANUFACTURER(S) - Alternate Manufacturer(s) products may be proposed as Add / Deduct Alternate to the Original Base Bid (Post Bid Proposals Not Accepted). The alternate proposal shall be supported with complete fixture and lamp data / cut-sheets with the specific model, features & characteristics indicated. Any variation from the Lighting Fixture Schedule shall be noted / indicated.	
EL-09	-	LAMPS- Lamps shall be a scheduled & Full Light Output, Energy Saving. Lamps shall be by General Electric, Philips, or Osram /Sylvania unless otherwise noted.	
EL-10	-	LAMPS COLOR & CRI- Lamps, unless otherwise noted, shall be a 30k-35k Color and CRI of 80+ for Fluorescents & 90+ for LEDs.	
EL-11	-	LED LAMPS- Shall be UL Labeled (#8750 & 1598c), tested & performance rated per ANSI/ ANSLG, CIE, FTC, FCC, IES (LM-79, LM-80 & Related), NEMA	
EL-12	-	LINEAR FLUORESCENT BALLAST- Shall be rated & matched to the specific lamp type(s) it serves, High Power Factor, Full Light Output, Energy Saving Electronic Type. Ballast shall be Multi-Volt (120-480) or Universal Voltage (120/277) & 10% THD or less.	
EL-13	-	COMPACT FLUORESCENT LAMP (CFL) BALLAST- Shall be rated & matched to the specific lamp type(s) it serves, High Power Factor, Full Light Output, Energy Saving Electronic Type. Ballast shall be Multi-Volt (120-480) or Universal Voltage (120/277) & 10% THD or less.	
EL-14	-	HIGH INTENSITY DISCHARG (HID) BALLAST- Shall be rated & matched to the specific lamp type(s) it serves, High Power Factor, Full Light Output, Energy Saving Type. Ballast shall be Multi-Volt (120-480) or Universal Voltage (120/277) & 10% THD or less.	
EL-15	-	DIMMING BALLAST & CONTROLS- Provide fixtures with dimming type ballast as prescribed. The Ballast & Controls shall be fully coordinate & matched for proper system operation.	
EL-16	-	EBIS (EMERGENCY BATTERY/ INVERTERS SYSTEMS) FOR FLUORESCENT LAMPS- Provide Battery/ Inverter units where shown or required for emergency egress lighting in accordance with NFPA-101 & NEC. 90 Minute operation (min.) unless otherwise noted. U.L. Listed & Labeled.	
EL-17	-	EBIS FEATURES- EBIS units shall be Self-Diagnostic, Automatic Testing with Audio & Visual alarm notification of trouble conditions. If the above feature is not available, provide Manual Test Switch w/ Indicator Lamp.	
EL-18	-	EBIS TEST FEATURES- units shall be Self-Diagnostic, Automatic Testing with Audio & Visual alarm notification of trouble conditions.	
EL-19	-	EBIS LINEAR LAMP PERFROMANCE - The EBIS shall provide the following minimum Lumen outputs. 48 Inch, 14-32 Watt lamps @ 1100-1400 Lumens. 48 Inch T5 20-55 Watt @ 1800-3000 Lumens	
EL-20	-	EBIS CFL LAMP PERFROMANCE - The EBIS shall provide the following minimum Lumen outputs. CFL 09-13 Watt, 2-Piin @ 350-650 Lumens. CFL 13-26 Watt, 2-Pin @ 500-950 Lumens; CFL 09-42 Watt 4-Pin @ 1100-1400 Lumens.	
EL-21	-	FIXTURE MOUNTING & SUPPORT- Each fixture shall be supported from the ceiling structure (verify ceiling structural capacity) or directly from building structure. Secure fixture to ceiling structure in accordance with code. Pendant supported fxtures shall be supported from building structure.	
EL-22	-	SIESMIC BRACING & SUPPORT- Fixtures shall be braced & supported in accordance with he Local Seismic Zone rating requirements.	
EL-23	-	INSTALLATION STANDARDS: Each item shall be installed in accordance with the NEIS (Nat. Electrical Installation Stds.), NEC & related codes and the manufacturer's published requirements.	
		End Of Electrical Criteria - Lighting Fixtures	

#	Rv #	ELECTRICAL CRITERIA - TELCO V/D/B RACEWAYS	Chk Off
ET-01	-	TELCO RACEWAY SCOPE-OF-WORK: Providing raceways, backboards and wall boxes with conduit stub-ups & pull-strings only for devices, cabling & equipment installation by others (Telco, Voice, Data, Broadband, Etc.)	
ET-02	-	TELCO DEVICES, CABLING & EQUIPMENT: All cabling, jacks, devices, hardware, equipment & software & related installation is the responsibility of the owner or tenant.	
ET-03	-	TELCO UTILITY COORDINATION: Prior to any rough in, coordinate, in writing, with the Telco Service Provider all related requirements- route, conduit qty & sizes, grounding, etc.	
ET-04	-	TELCO SYSTEM PROVIDER COORDINATION: Prior to any rough in, coordinate, in writing, with the Telco Service Provider all related requirements- route, conduit qty & sizes, grounding, etc.	
ET-05	-	TELCO SERVICE CONDUITS: Quanity & size as required or shown, use long radius bends (10X) on all raceway bends & turns. Install Pull-Strings, tagged & tied-off at each end.	
ET-06	-	TELCO- V/D BACKBOARDS: 3/ 4" Thick A/D Grade fire-retardant plywood, painted with two coats of fire-retardant grey paint, bottom 18 In AFF, secured to wall structure. Provide 4-Hole ground lug with #6 ground extended to main service ground & bonded.	
ET-07	-	V/D WALL BACKBOXES & STUB-UPS: Provide double gang wall boxes with plaster ring with 1" C. stub-up & turn-out into an accessible plenum. Jacks, devices & covers by owner or tenant's vendor-installer. Install Pull-Strings, tagged & tied-off at each end.	
ET-08	-	V/D WALL FLOOR BOXES & STUB-UPS: Provide flush-in-floor box(s) with 1" C. under floor, to a wall & stub-up & turn-out into an accessible plenum. Jacks, devices & covers by owner or tenant's vendor-installer. Install Pull-Strings, tagged & tied-off at each end.	
		End Of Electrical Criteria - TELCO V/D/B Raceways	

18.09.27		Fayette Co Fire Station 04	
DN-	Rv	ELECTRICAL DISCLAIMERS & PROJECT NOTES	CO
01	-	CONSTRUCTION NEW> This Project Is All New Work.	
02	-	UTILITY POWER> Utility Power Is To Be Field Verified & Documented By The Contractor Prior To The Start Of Any Work. Confirm Voltages, Phase, & Available Fault Current.	
03	-	GENERATOR POWER SYSTEM> The Generator Power System Being Installed For This Facility Is Classified As An: OPTIONAL STANDBY SYSTEM (i.e.-Non-Life-Safety Functions Per NFPA-101).	
04	-	EMERGENCY EGRESS & EXIT LIGHTING Is Provided Via Battery Backup Units. Refer To The Lighting Fixture Schedule.	
05	-	LIGHTING - Refer To The Architectural-Interiors (A/I) For The Complete Lighting Design (Ceiling Types & Layouts, Fixture Selections & Lamping, Mounting Heights, Etc.)	
06		EQUIPMENT VERIFICATION - Contractor Is To Verify The Electrical Characteristics & Ratings Of Electrical Equipment Provided By Other Trades, Etc. Prior To Ordering Materials & Any Rough-Ins.	
06	-	EQUIPMENT ON GEN. PWR SYSTEM: - Contractor Is To Coordinate Early With Other Trades, Owner, Etc. Regarding The Electrical Characteristics, Ratings & Motor Starter Types Of Electrical Equipment Provided By Other Trades, Etc. To Ensure Proper Generator Operation.	
07		GEN. PWR SYSTEM LOAD SEQUENCE STARTING: Selected Loads Are Noted As Delayed Restart Or Delayed Start To Avoid All Loads Being Connecte To The Generator Source At The Same Time.	
08		FIRE ALARM - Not Included In This Work-Scope.	
09	-	TELCO-VOICE-DATA SYSTEM(s)- Not Included In This Work-Scope.	
10	-	TV-BROADBAND SYSTEM(s)- Not Included In This Work-Scope.	
11	-	ACCESS CONTROL & SECURITY- Not Included In This Work-Scope.	
12	-	OWNER-TENANT-USER RESPONSIBILITIES- To Review & Train In Proper Operations & Maintenance Of The Electrical Components & System.	
13	-	OWNER-TENANT-USER RESPONSIBILITIESy- Regularly Test (Every 3 Months) GFCI & AFCI Devices To Ensure Proper Operation.	
14		OWNER-TENANT-USER RESPONSIBILITIES- To Regularly Check, Test & Document The Proper Operation Of The Emergency Lighting System. Refer To NFPA-101 & OSHA Regulations. Documentation & Forms Are Available From NFPA & OSHA	
15	-	GENERATOR POWER SYSTEM MAINTEANCE> The Owner Is Responsible For The Maintaining The Generator Power System In Proper Working Order And Conducting & Documenting Regular Operational Testing Per Codes & Other Agency Requirments.	
17-151		End Of Disclaimer & Project Notes	

architecture
interiors
town planning

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GEORGIA REGISTERED No. 13252 PROFESSIONAL ENGINEER ROBERT M MADDOX 2018 09 20

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DATE	ACTION	COMMENTS
18.09.27	Issued	Price, Permit & Construction

FAYETTE CO.
FIRE STATION
4

278 McElroy Road
Fayetteville, GA. 30214

Prepared for

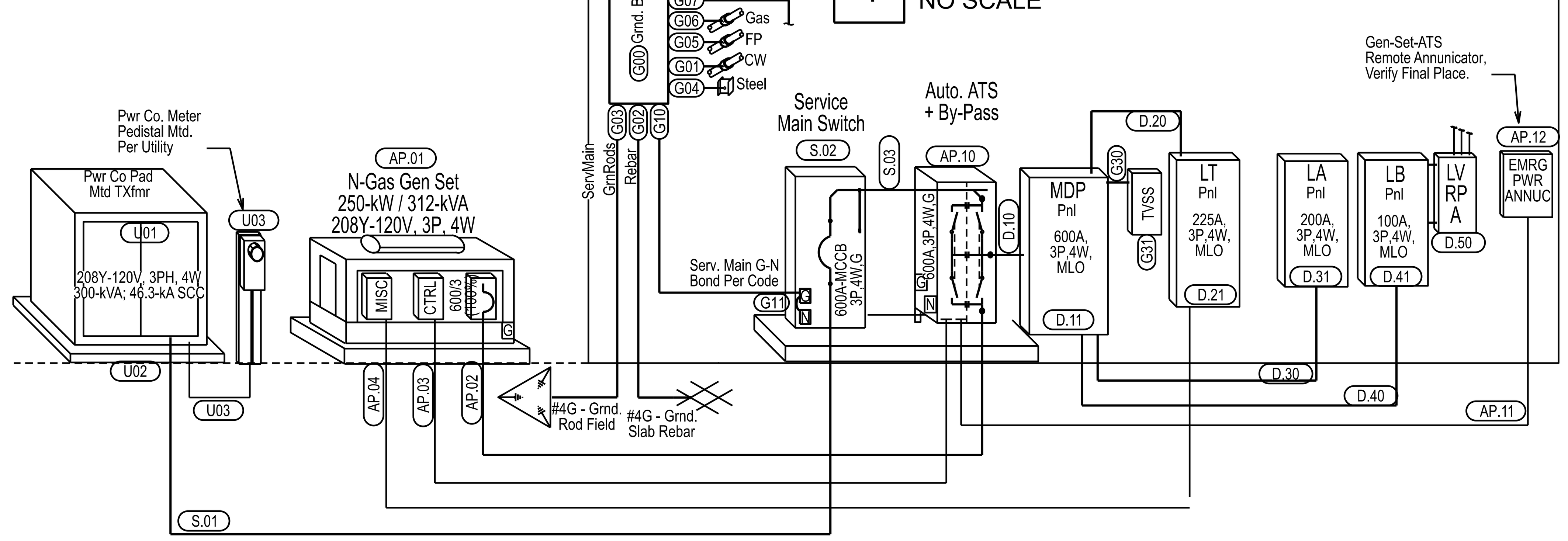
FAYETTE CO.
FIRE DEPT.

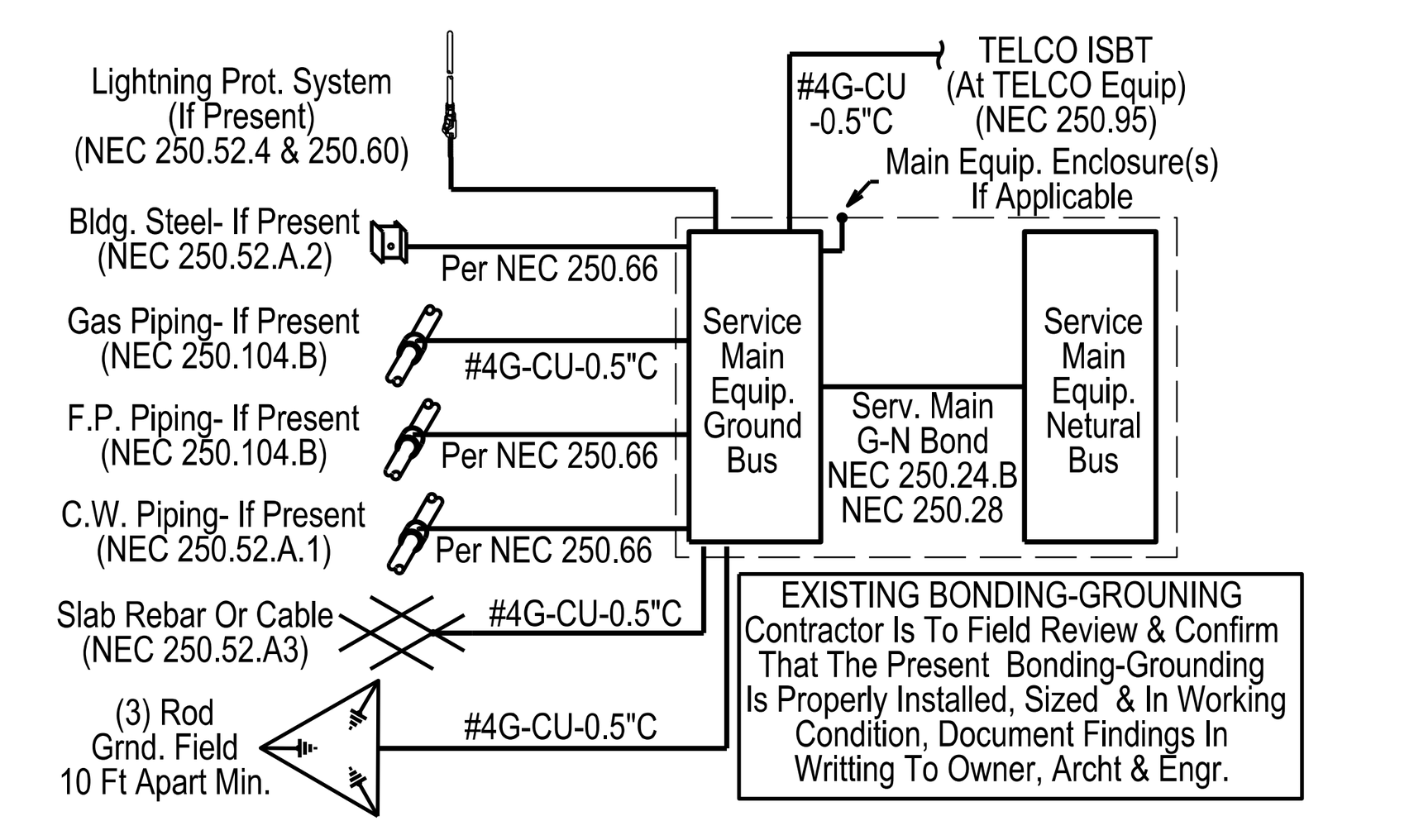
COMMISSION / JOB NO:
1748.00

SHEET TITLE:
ELECTRICAL CRITERIA

SHEET NO:
E-0.1
RELEASED FOR PERMIT OR CONSTRUCTION

1 POWER DISTRIBUTION RISER
NO SCALE





SERVICE MAIN - BONDING & GROUNDING
DETAIL # - MG — NOT TO SCALE

Project: **Fayette Co Fire Station 04**	**MDP** Schd		**Fayetteville, GA. 30241** City,St	
Gen Nt 1: Bkr Ties On Multi-Wire Ckts NEC 210.4B	Volt- LL	208	Enclosure-Mtg: NEMA 1	Wall Surf Mtd.
Gen Nt 2: Seismic Certified & Seismic Rated Anchors & Supports Reqd.	Volt- LN	120	Cover & Door: Door-In-Door, With Locks	
Gen Nt 3: Main Distb Panel	Phs. 3	W. 4	OCP Types: Main - MCCB-60C/75C	Branch- MCCB, 60C/75C Lugs
Gen Nt 4: - - -	Buss Amps	600	All Busing: CU or AL	100% N & G Busing
Gen Nt 5: - - -	Main OCP	MLO	Arc-Flash: Labeled Per NEC & OSHA	
17-151 MADDOX GROUP INC. Spare % = 15%	KA-AIC SCA	65	18.09.27 Date:	Const Status

Rv	Nt	Description	Wiring	ID	W/VA	OCP	P	#	P	#	OCP	P	W/VA	ID	Wiring	Description	Nt	Rv
		Pnl LA Fdr	- - - -	P	18,856	150	-	01	A	02	225	-	25,935	P	- - - -	Pnl LT Fdr		
		208V, 3Ph, 4W, G	See Riser	P	18,014	-	-	03	B	04	-	-	27,135	P	See Riser	208V, 3Ph, 4W, G		
		- - - -	- - - -	P	19,038	-	3	05	C	06	-	3	23,735	P	- - - -	- - - -		
		Pnl LB Fdr	- - - -	P	8,690	100	-	07	A	08	50	-	2,905	M	See Connect Data	Air-Compr Gen Use	1,2	
		208V, 3Ph, 4W, G	See Riser	P	7,975	-	-	09	B	10	-	-	2,905	M	= = =	7.5 HP-208V-3Phs		
		- - - -	- - - -	P	6,910	-	3	11	C	12	-	3	2,905	M	= = =	Schultz 7580VV30X-3		
		Air Tank Compr	See Connect Data	M	7,128	100	-	13	A	14	40	-	0		- - -	TVSS Surge Prot		
	1,2	20HP-208V-3Phs	= = =	M	7,128	-	-	15	B	16	-	-	0		4# 8+ 8G-MC	208V, 3Ph, 4W, G		
		Hushair Conn. 7500	= = =	M	7,128	-	3	17	C	18	-	3	0		- - -	- - - -		
		< Space Only >	- - -		0	SP	-	19	A	20	SP	-	0		- - -	< Space Only >		
		< Space Only >	- - -		0	-	-	21	B	22	-	-	0		- - -	< Space Only >		
		< Space Only >	- - -		0	-	3	23	C	24	-	3	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	25	A	26	20	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	27	B	28	20	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	29	C	30	20	1	0		- - -	< Space Only >		

Nt# 01- HACR Listed & Labeled MCCB	Phs-A = 34.1 %	529 A	63,514 VA	26.1 KVA Facotred End Use	72 A
Nt# 02- Verify Soft-Start & Time Delay On Power Loss Restart.	Phs-B = 33.9 %	526 A	63,157 VA	158.8 KVA Pass Thru Load	441 A
Nt# 03- Not Used	Phs-C = 32.0 %	497 A	59,716 VA	3.9 KVA Spare	11 A
Nt# 04- Not Used	**Summary =**	**517 A**	**186,387 VA**	**188.8 KVA Total**	**524 A**

#	Rv #	ELECTRICAL CRITERIA - PROJECT CLOSE-0UT	Chk Off
EZ-01	-	REVIEW REQUEST NOTICE(s)- This Contractor Shall Notify, In Writing, At Least 10 Days In Advance, To Own/ Archt/ Engr, Of The Desired Date To Request Having An On-Site Review Performed.	
EZ-02	-	AHJ INSPECTION REPORTS- This Contractor Shall Submitt Copy(s) Of Each Inspection Report As Given By The Authority Having Jurisdiction (AHJ) To The Own/ Archt/ Engr.	
EZ-03	-	ROUGH IN REVIEWS - Request Rough-In Reivew(s) Before Any Mateiral Or Work Is Covered And Unobservable.	
EZ-04	-	CERTIFICATIONS & TEST REPORTS- Provide Copies Of All Required Certifications And Test Results Prior To Requesting Final Review.	
EZ-05	-	CONTRACTOR REVIEW- This Contractor Shall Throughly Review & Document That The Complete Work Is Properly Functioning & Opeating Prior To Requesting A Final Review.	
EZ-06	-	REVIEW ELECTRICAL BONDING & GROUNDS- Veirfy Each Service Ground & Bond Is Properly Installed, Connected & Labled.\	
EZ-07	-	REVIEW ELECTRICAL SERVICE & VOLTAGE- Test & Record The Actual Voltages (L-L, L-N,L-G, N-G) And Amperages Of Each Line, Netural & Ground At The Service Entrance	
EZ-08	-	REVIEW ELECTRICAL DISTRIBUTION- Review & Document Each Part Of The Electrical Distribution System. Verify Proper Size & Ratings Of Each Item, Proper Connections & Torque Values. Verify Proper Bonding & Grounding.	
EZ-09	-	REVIEW ELECTRICAL PANEL DIRECTORIES - Review & Verify Detial Panel Directories Are Complete, Correct & Installed. Provide Complete "As-Built" Panel Schesule, In PDF Format To Owner For Their Records.	
EZ-10	-	REVIEW ELECTRICAL EQUIPMENT WIRING- Review Each Equipment Connection, Verify Circuit Protection Complies With The Equipment UL Listings & Ratings. Verify Disconnects Are Properly Labeled. Check For Proper Voltage & Phase Rotation For Equipment.	
EZ-11	-	REVIEW ELECTRICAL WIRING & DEVICES- Review & Document That All Branch Circuit Wiring Is Properly Installed, Bonded & Operational. Test Each Outlet With For Proper Contunity, Polarity & Grounding. Test Using An IDEAL INDUSTRIES SURE-TEST Model 61-165 Or Equal.	
EZ-12	-	REVIEW ELECTRICAL LIGHTING & CONTROLS- Review & Document That All LIGHTING Flxtures Are Properly Operating And Clean. Verify Proper Operation Of All Lighting Controls. Program & Set An Control Operations And/ Or Schedules Per Owner.	
EZ-13	-	REVIEW ELECTRICAL EMERGENCY EGRESS LIGHTNG & EXIT SIGNS:- Review & Document That Each Emergency Lighting Fixture And / Or System And Each Exit Sign Is Properly Functioning. Turn Off Building / Suite Power For 90 Minutes And Verify Emergency Lighting & Exit Are Operational Per Code.	
EZ-14	-	REVIEW ELECTRICAL SUB-SYSTEMS- Refer To The Specific Requirments Of Each "Sub-Systems" (i.e.-Fire Alalrm, Data-Voice, Etc.).	
EZ-16	-	KEYS & SPARE PARTS- Label & Turn Over All Keys To Owner's Personell. Review & Show All Spare Components & Parts To Owner's Personell & Document With Transmittal.	
EZ-17	-	"AS_BUILTS" - Provide Copies, In Hard-Copy & PDF Format, Of The Field Recored Documents With All "As-Built" Field Documentation Reflecting The Final Installed Conditions. Copy To Own/ Archt/ Engr.	
EZ-18	-	WARRANTY- This contractor shall warrant all materials, labor & installation for one full year from date of Certificate of Occupancy. Any extended product warranties shall be passed onto the owner.	
EZ-20	-	INSTRUCTIONS & TRAINING:- Schedule & Provide A Instructional & Traning Session With The Owner's Designated Personell. Review The Project Manual, Perform A "Walk-Thru" Review Of The All Electrical System(s) And Their Proper Operation, Including Resetting Of Breaker & Replacment Of Fuses.	
EZ-21		PROJECT MANUAL(S)- Provide Both A Bound "Hard-Copy" & PDF Version To The Owner & PDF Copy To The Archt/ Engr. The Project Manual Shall Include The Contractors Contact Information, Permits, Copies Of All "As-Builts", Product Submittal Data, Copies Of All Inspection Reports, Certifications & Test Results. Include All Mainteance Data, Instructions, & Warranty Information.	
EZ-22		FINAL REVIEWS - Request A Final Reivew Once All Work & Systems Are Completed, Checked And In Proper Operation	
-		- - - - -	
		End Of Electrical Criteia - Project Close-Out	

ELECTRICAL UTILITY & LOAD DATA

Proj:	**Fayette Co Fire Station 04**	Owner :	**Fayette Co Fire Dept**
Street	**278 McElroy Road**	Contact :	**Capt. Scarboro**
City	**Fayetteville, GA. 30241**	Phone # :	**- - - -**
GSF:	**10,200** 18.09.27 -Date	Status-	**Const**

ELECTRICAL LOAD DATA & SUMMARY

Load ID	Connected Load Type	Connected @ 100% kVA	%	W/SF	Descriptions, Comments & Notes	Rv #
-	Exist. Demand	0.00	0%	0.00	Not Applicable - New Project	-
L	Lighting	11.18	6%	1.10	Interior & Exterior With Occupancy Switches	-
R	General Rcpts.	26.50	14%	2.60	General Use Receptacles	-
A	Appliances	23.40	13%	2.29	Residental Kitchen & Laundry Appliances	-
E	Electronics, PCs, Etc.	14.40	8%	1.41	Small UPS, Voice-Data-TV Equipment	-
H	HVAC- Mtrs	17.79	10%	1.74	HVAC- Fans, Blowers, & Similar	-
C	HVAC-Refrig	11.55	6%	1.13	HVAC- Cooling Equipment, HPUs, CUs, Etc.	-
G	HVAC- Heating	13.00	7%	1.27	HVAC- Space Heating & Related	-
M	Misc- M	30.10	16%	2.95	Air Comprs> 7.5 HP + 20 HP	-
T	Misc- T	38.48	21%	3.77	Commercial Laundry Equip: Wash-Extractor, Dryer, +Misc.	-
- -	Spare	0.00	0%	0.00	-	-
	Summary kVA >	**186**	100%	**18.3**	**< W/SF Sum**	

Supply Characteristics		Amps 100% > 517	General Comments
208	Volts-LL	1-	N-Gas> Major Cooking Appliances
120	Volts-LN	2-	N-Gas> HVAC Space Heating (Gas Furnaces, Non-Simult With Cooling)
3	Phase-1/3	3-	- - -
4	Wire #	4-	- - -
600 Amps/ 2 Sets> 4# 350-CU or 500-AL		5-	Back-Up Generator Set With Automatic Open-Transfer Switch.

Prefered Power Co. Service, Transformer & Metering - Verify With Utility

____	Tfmr. kVA	Pwr Company:	**Cowetta-Fayette EMC**
		Pwr. Co. Contact:	**Curtis Camp, 770-252-7241**
____	Secd.3P-Bolted kA SCCA	Pwr Co. Primary:	**Under Ground Primary; Provided By Power Co. (Verify)**
		Pwr Co. TXfmr:	**Pad & Transformer By Power Co. (Verify)**
____	Secd. Phs-Grn kA SCCA	Pwr Co. Metering:	**Pedistal Mtd Mtr; Pedistal & 1.5"C Conduit By Contractor (Verify)**
12-101 MADDOX GROUP INC.			End Of Utility Load Data

(XXXX) POWER DISTRIBUTION SCHEDULE (XXXX)

Fayette Co Fire Station 04 — **ELCT. DISTB. SYSTEM SCHEDULE** — 18.09.27
Fayetteville, GA. 30241 — **ELECTRICAL DISTRIBUTION SYSTEM** — Const

Rv#	Tag ID#	Description / Label	Volts/ Phase/ Wires	Wiring (#Sets,Cu/Al), Ratings, Size, Etc.	Item Nt #	Fault SCkA	Arc-Flash	Feet
		Electrical Utility Source						
-	U01	Utility Co. Transformer, Pad Mounted Type	**208Y-120V,3P,4W**	**Verify - 300 kVA**	- -	**46.3**	Per Util	-
-	U02	Transformer Pad	Structural Concrete Pad	Verify With Utility & Provide As Required	- -	NA	NA	-
-	U03	Utility Co. Meter	Extend 1.5"C-Empty From Meter To Txfmr.	Contractor Provides Pedistal, Get Meter & Mount; Meter Wiring & Related Transformer Connects By Pwr Co.	- -	NA	NA	-
-	-	- - -	- - -	- - -	-	-	-	-
		Service Bonding & Grounding (Each Service)						
-	G00	Master Grnd Bus (MGB)	Ground-Bus, Mtd. High On Wall With Label	Term. Cables With 2-Hole Cable Lugs & Label Each Cable; Burndy BBB or Erico TGB/ TMGB	- -	- -	- -	-
-	G01	Bond/Grnd- To CW Main	(1) #3/0G- 1"PVC	Clamp With-In 5 Ft Of Pipe Entrance	- -	- -	- -	-
-	G02	Grnd- To Slab Rebar	(1) #4G- 1"PVC	20 Ft 1/2" OD Rebar Or #4 Bare Cu	- -	- -	- -	-
-	G03	Grnd- To Grnd Rod Field	(1) #4G- 1"PVC	(3) 10 Ft SS Grnd Rods Space 10 Ft Apart	- -	- -	- -	-
-	G04	Bond/Grnd- To Bldg Steel	(1) #3/0G- 1"PVC	U.L Bond To Major Steel Member	- -	- -	- -	-
-	G05	Bond/Grnd- To FP Main	(1) #3/0G- 1"PVC	Clamp With-In 5 Ft Of Pipe Entrance	- -	- -	- -	-
-	G06	Bond- To Gas Main Pipe	(1) #4G- 1"PVC	Clamp With-In 5 Ft Of Pipe Entrance	- -	- -	- -	-
-	G07	Bond/Grnd- To Lightning Prot	(1) #3/0G- 1"PVC	Bond To Ltgn Prot **(If Present)**	- -	- -	- -	-
-	G10	Grnd Electrode To Each Serv	(1) #3/0G- 1"PVC	Bond To Main Grnd @ Service	- -	- -	- -	-
-	G11	Main Bonding Jumper (G-N)	(1) #3/0G- 1"PVC	Unspliced Inside Each Serv Disc	- -	- -	- -	-
-	G20	Bond- To Telco ISBT	(1) #2G- 1"PVC	Grnd To Each LV Comm Service(s)	- -	- -	- -	-
-	G21	ISBT(Inter-System Bonding Terminal) Ground Bar	ILSOC PET Or Equal	Dual-Rated, 8-Hole Lug With 2-Mtg Holes	- -	- -	- -	-
-	-	- - -	- - -	- - -	-	-	-	-
		TVSS (Surge Protection)						
-	G30	TVSS Connection; NEC 280.25	(1) 4# 4+ 4G- 1.25"C	Keep Wiring Leads Very Short	- -	- -	- -	-
-	G31	TVSS Unit - Mount. Close As Possible To Protected Item / Equipment	208Y-120V,3P,4W,G	C-Class, 250 kA/ Phs; 125kA/ Mode: EMI/ RFI Filter, Disconnect, Alarm & Meters, NEMA-3R; LEA LS Plus Series	- -	- -	- -	-
-	G31	TVSS Unit - Mount. Close As Possible To Protected Item / Equipment	480Y-277V,3P,4W,G	C-Class, 250 kA/ Phs; 125kA/ Mode: EMI/ RFI Filter, Disconnect, Alarm & Meters, NEMA-3R; LEA LS Plus Series	- -	- -	- -	-
-	-	- - -	- - -	- - -	-	-	-	-
		All Conductors Are Copper (Cu) Unless Specifically Noted As Aluminum (Al) (Compact Strand)						
		Electrical Service(s)						
-	S01	Elect. Service> Main Serv > 600 Amps	208Y-120V,3P,4W,G	(2Cu) 4# 350- 4.00"C or (2Al) 4# 500- 4.00"C	- -	- -	- -	-
-	S01	Elect. Service> Main Serv Disc.> 600 Amps	208Y-120V,3P,4W,G	Main Service Entrance Rated MCCB In NEMA-1 Enclosure, Wall Mtd. 208Y-120V,3P,4W,G	- -	- -	- -	-
-	S03	Fdr To ATS-Norm > 600 Amps	208Y-120V,3P,4W,G	(2Cu) 4# 350+ 1G- 4.00"C or (2Al) 4# 500+ 2/0G- 4.00"C	- -	- -	- -	-
-	S04	House Keeping Pad	na	Provide House-Keeping Pad For Floor Mounted Items. Secured Equipment Per Seismic Requirements	- -	- -	- -	-
-	-	- - -	- - -	- - -	-	-	-	-
		Generator System Electrical Distribution						
-	AP.01	N-Gas Gen Set; 250-kW, 312-kVA	208Y-120V,3P,4W,G; 867 FLA, 600A-100% Output MCCB	See Detailed Criteria. Coordinate Structural Pad, Access Pad, Fencing & Protection With GC	- -	- -	- -	-
	AP.02	Feed Gen Set To ATS	208Y-120V,3P,4W,G	(2Cu) 4# 350+ 1G- 4.00"C or (2Al) 4# 500+ 2/0G- 4.00"C	- -	- -	- -	-
	AP.03	Gen Set Control Wiring	Per Manuf	Prior To Any Rough-Ins, Verify Per Manufacture Cabling Requirements & Conduit Size (1.25"C Minimum)	- -	- -	- -	-
	AP.04	Ges Set Misc Power (Jacket Htr, Charger, Etc.)	208Y-120V,3P,4W,G	Prior To Any Rough-Ins, Verify Per Manufacture Cabling Wiring (3# 6+10G) & Conduit Size (1.25"C Minimum)	- -	- -	- -	-
	AP.05	Gen Set Grounding	Grnd	Ensure Gen Set, Housing, & All Components Are Fully Bonded Together & Grounded (3/0 Cu-Min)	- -	- -	- -	-
	AP.10	Automatic Transfer Switch (ATS); 600A, 3P, SN, By-Pass	208Y-120V,3P,4W,G; 600A-100%	See Detailed Criteria; Coordinate Structural Mounting, Provide House-Keeping Pad If Floor Mounted. Secured Per seismic Requirements	- -	- -	- -	-
	AP.11	Remote Annunicator Wiring	Per Manuf	Prior To Any Rough-Ins, Verify Per Manufacture Cabling Requirements & Conduit Size (1.25"C Minimum); Verify With Location Prior To Rough-In.	- -	- -	- -	-
	AP.12	Remote Annunicator, Verify Location Prior To Rough-In.	Per Manuf	See Detailed Criteria; Verify Location Prior To Rough-Ins, Walll Mounted. Secured Per seismic Requirements	- -	- -	- -	-
-	-	- - -	- - -	- - -	-	-	-	-
		Electrical Distribution						
-	D.10	MDP Fdr > 600 Amps	208Y-120V,3P,4W,G	(2Cu) 4# 350+ 1G- 4.00"C or (2Al) 4# 500+ 2/0G- 4.00"C	- -	- -	- -	-
-	D.11	MDP	208Y-120V,3P,4W,G	See Schedule	- -	- -	- -	-
-	D.20	LT Fdr > 225 Amps	208Y-120V,3P,4W,G	(1Cu) 4# 4/0+ 4G- 2.50"C or (1Al) 4# 300+ 2G- 3.00"C	- -	- -	- -	-
-	D.21	LT	208Y-120V,3P,4W,G	See Schedule	- -	- -	- -	-
-	D.30	LA Fdr > 200 Amps	208Y-120V,3P,4W,G	(1Cu) 4# 3/0+ 6G- 2.00"C or (1Al) 4# 250+ 4G- 2.50"C	- -	- -	- -	-
-	D.31	LA	208Y-120V,3P,4W,G	See Schedule	- -	- -	- -	-
-	D.40	LB Fdr > 100 Amps	208Y-120V,3P,4W,G	(1Cu) 4# 3+ 8G- 1.25"C or (1Al) 4# 1+ 6G- 1.25"C	- -	- -	- -	-
-	D.41	LB	208Y-120V,3P,4W,G	See Schedle	- -	- -	- -	-
-	D.41	Low-Voltage Relay Pnl- A (LVRP-A)	208Y-120V,3P,4W,G	See Schedule; Extend LV Wiring (MC Cable) To LV Switches	- -	- -	- -	-
-	-	- - -	- - -	- - -	-	-	-	-
MADDOX GR		End Of Distribution Schedule - Utility Power						17-151

TELCO V/D BKBD
IBT GRND BUS
G
(1) #6 CU Grnd To Main Elect. Service Grnd.
(2) 2"C
LONG RADIUS BENDS
U.G. TO PROP. LINE AT STREET
(2) 2"C
TELCO RISER
NO SCALE
?

architecture
interiors
town planning
KAOD
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GEORGIA REGISTERED NO 13252 PROFESSIONAL ENGINEER ROBERT M MADDOX
2018 09.20

THE MADDOX GROUP
DESIGN & ENGINEERING
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770-471-9076
maddoxgroup@comcast.net

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DATE	ACTION	COMMENTS
18.09.27	Issued	Price, Permit & Construction

FAYETTE CO.
FIRE STATION
4

278 McElroy Road
Fayetteville, GA. 30214

Prepared for

FAYETTE CO.
FIRE DEPT.

COMMISSION / JOB NO:
1748.00

SHEET TITLE:
ELECTRICAL RISER & SCHEDULES

SHEET NO:
E-02

RELEASED FOR PERMIT OR CONSTRUCTION

Project:	Fayette Co Fire Station 04				LT	Schd	Fayetteville, GA. 30241	City,St.
Gen Nt 1:	Bkr Ties On Multi-Wire Ckts NEC 210.4B				Volt- LL	208	Enclosure-Mtg:	NEMA 1	Wall Surf Mtd.
Gen Nt 2:	Seismic Certified & Seismic Rated Anchors & Supports Reqd.				Volt- LN	120	Cover & Door:	Door-In-Door, With Locks	
Gen Nt 3:	Serves Truck Bays & Related				Phs. 3	W. 4	OCP Types:	Main - MCCB-60C/75C	Branch- MCCB, 60C/75C Lugs
Gen Nt 4:	Matching Pnl. Wire Gutter & Sectional Covers, Pnl To Clg. With Trim				Buss Amps	225	All Busing:	CU or AL	100% N & G Busing
Gen Nt 5:	- - -				Main OCP	MLO	Arc-Flash:	Labeled Per NEC & OSHA	
17-151	MADDOX GROUP INC.			Spare % = 0%	KA-AIC SCA	42	18.09.27	Date:	Const Status

Rv	Nt	Description	Wiring	ID	W/VA	OCP	P	#	P	#	OCP	P	W/VA	ID	Wiring	Description	Nt	Rv
	1	Washer-Extractor	See Connect Data	T	4,800	40	-	01	A	02	20	-	1,500	G	See Connect Data	M.EWH.02	1	
		208V-3Phs	= = =	T	4,800	-	-	03	B	04	-	2	1,500	G	= = =	3.0 kW, 208V, 1Phs		
		Continental E=I255	= = =	T	4,800	-	3	05	C	06	20	-	1,000	G	See Connect Data	M.EWH.03	1	
	1	Drying Cabinet	See Connect Data	T	2,125	30	-	07	A	08	-	2	1,000	G	= = =	2.0 kW, 208V, 1Phs		
		208V-3Phs	= = =	T	2,125	-	-	09	B	10	20	-	1,500	G	See Connect Data	M.EWH.04	1	
		CirculAir D634	= = =	T	2,125	-	3	11	C	12	-	2	1,500	G	= = =	3.0 kW, 208V, 1Phs		
	1	M.AFU.01 &02	See Connect Data	H	1,105	20	-	13	A	14	20	1	900	E	See Connect Data	Fir Prot Cntrl Pnl	1	
		1.0 HP, 208V, 3Phs Ea	= = =	H	1,105	-	-	15	B	16	20	1	700	H	See Connect Data	M.F.09, 0.25 HP	1	
		AirVac 911	= = =	H	1,105	-	3	17	C	18	20	1	700	H	See Connect Data	M.F.10, 0.25 HP	1	
	1	M.AFU.03 & 04	See Connect Data	H	1,105	20	-	19	A	20	20	1	700	H	See Connect Data	M.F.11, 0.25 HP	1	
		1.0 HP, 208V, 3Phs Ea	= = =	H	1,105	-	-	21	B	22	20	1	1,600	H	See Connect Data	M.GRH.xx Htr & Louver	1	
		AirVac 911	= = =	H	1,105	-	3	23	C	24	20	1	1,600	H	See Connect Data	M.GRH.xx Htr & Louver	1	
	1	M.F.02	See Connect Data	H	900	20	-	25	A	26	20	1	1,600	E	See Connect Data	Truck Pwr Reel		
		2.0 HP, 208V, 3Phs Ea	= = =	H	900	-	-	27	B	28	20	1	1,600	E	See Connect Data	Truck Pwr Reel		
		Ex Fan	= = =	T	900	-	3	29	C	30	20	1	1,600	E	See Connect Data	Truck Pwr Reel		
	1	Doors 4-Fold Truck Bay	See Connect Data	T	1,800	20	-	31	A	32	20	1	1,600	E	See Connect Data	Truck Pwr Reel		
		208V, 3Phs Ea	= = =	T	1,800	-	-	33	B	34	20	1	1,600	E	See Connect Data	Truck Pwr Reel		
		1.0 HP Each Of 3	= = =	T	1,800	-	3	35	C	36	20	1	1,600	E	See Connect Data	Truck Pwr Reel		
	1	Doors 4-Fold Truck Bay	See Connect Data	T	1,800	20	-	37	A	38	20	1	1,200	R	2# 10+ 10G- MC	Rcpts- Truck Bay Extr		
		208V, 3Phs Ea	= = =	T	1,800	-	-	39	B	40	20	1	1,200	R	2# 10+ 10G- MC	Rcpts- Truck Bay Extr		
		1.0 HP Each Of 3	= = =	T	1,800	-	3	41	C	42	20	1	1,200	R	2# 10+ 10G- MC	Rcpts- Truck Bay Intr		
		Gen Set Block Htg	2# 8+10G-1.25°C	T	3,000	40	-	43	A	44	20	1	800	R	2# 10+ 10G- MC	Rcpts- Truck Bay Intr		
		208V, 1Phs	- - -	T	3,000	-	2	45	B	46	20	1	800	R	2# 10+ 10G- MC	Rcpts- Truck Bay Intr		
		> Spare MCCB <	- - -		0	20	1	47	C	48	20	1	900	R	2# 10+ 10G- MC	Rcpts- Truck Bay Wr Ft		
		< Space Only >	- - -		0	Sp	1	49	A	50	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	51	B	52	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	53	C	54	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	55	A	56	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	57	B	58	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	59	C	60	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	61	A	62	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	63	B	64	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	65	C	66	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	67	A	68	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	69	B	70	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	71	C	72	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	73	A	74	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	75	B	76	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	77	C	78	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	79	A	80	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	81	B	82	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	83	C	84	Sp	1	0		- - -	< Space Only >		
		- - -	- - -		0	na	-	Sub	A	Sub	na	-	0		- - -	- - -		
		Not Used	- - -		0	-	-	Feed	B	Feed	-	-	0		- - -	Not Used		
		- - -	- - -		0	-	3	Load	C	Load	-	3	0		- - -	- - -		

N# 01-	HACR Listed & Labeled MCCB	Phs-A =	33.8 %	216	A	25,935 VA	67.7 KVA Facotred End Use	188 A
N# 02-	Not Used	Phs-B =	35.3 %	226	A	27,135 VA	0.0 KVA Pass Thru Load	0 A
N# 03-	Not Used	Phs-C =	30.9 %	198	A	23,735 VA	0.0 KVA Spare	0 A
N# 04-	Not Used	Summary =		213	A	76,805 VA	67.7 KVA Total	188 A

Project:	Fayette Co Fire Station 04				LA	Schd	Fayetteville, GA. 30241	City,St.
Gen Nt 1:	Bkr Ties On Multi-Wire Ckts NEC 210.4B				Volt- LL	208	Enclosure-Mtg:	NEMA 1	Wall Surf Mtd.
Gen Nt 2:	Seismic Certified & Seismic Rated Anchors & Supports Reqd.				Volt- LN	120	Cover & Door:	Door-In-Door, With Locks	
Gen Nt 3:	Matching Pnl. Wire Gutter & Sectional Covers, Pnl To Clg. With Trim				Phs. 3	W. 4	OCP Types:	Main - MCCB-60C/75C	Branch- MCCB, 60C/75C Lugs
Gen Nt 4:	- - -				Buss Amps	200A	All Busing:	CU or AL	100% N & G Busing
Gen Nt 5:	All 20A/ 1P MCCB To Have AFCI Protection (NEC-210.12)				Main OCP	MLO	Arc-Flash:	Labeled Per NEC & OSHA	
17-151	MADDOX GROUP INC.			Spare % = 15%	KA-AIC SCA	42	18.09.27	Date:	Const Status

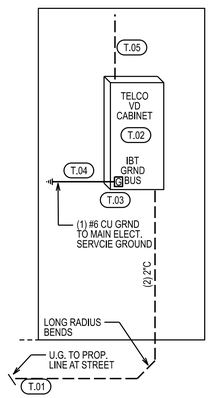
Rv	Nt	Description	Wiring	ID	W/VA	OCP	P	#	P	#	OCP	P	W/VA	ID	Wiring	Description	Nt	Rv
		M.CU.01, 2.0T	See Connect Data	C	1,186	20	-	01	A	02	20	1	1,500	A	See Connect Data	Appl- Ice Maker		
		208V, 1Ph	= = =	C	1,186	-	2	03	B	04	20	1	1,500	A	See Connect Data	Appl- K-Range Hood		
		M.CU.02, 2.5T	See Connect Data	C	1,410	25	-	05	C	06	20	1	1,500	A	See Connect Data	Appl- K-Refg		
		208V, 1Ph	= = =	C	1,410	-	2	07	A	08	20	1	1,500	A	See Connect Data	Appl- K-Freez		
		M.CU.03, 4.0T	See Connect Data	C	1,768	35	-	09	B	10	20	1	1,500	A	2# 12+ 12G-MC	Appl- Kitch Island		
		208V, 1Ph	= = =	C	1,768	-	2	11	C	12	20	1	1,500	A	See Connect Data	Appl- K-Microwave		
		M.CU.04, 2.5T	See Connect Data	C	1,410	25	-	13	A	14	20	1	1,500	A	See Connect Data	Appl- K_Dishwash UC		
		208V, 1Ph	= = =	C	1,410	-	2	15	B	16	20	1	1,500	A	See Connect Data	Appl- K-Disposal UC		
		C-Dryer Resd	See Connect Data	A	2,500	30	-	17	C	18	20	1	1,500	A	See Connect Data	Appl- Kitch		
		208V, 1Ph	= = =	A	2,500	-	2	19	A	20	20	1	1,500	A	See Connect Data	Appl- Kitch		
		M.EWH.01, 2.0kW	See Connect Data	G	1,000	20	-	21	B	22	20	1	1,500	A	See Connect Data	Appl- Kitch		
		208V, 1Ph	= = =	G	1,000	-	2	23	C	24	20	1	1,500	A	See Connect Data	Appl- Laundry		
		M.GF.01, 0.50 HP	See Connect Data	H	750	20	1	25	A	26	20	1	200	R	2# 12+ 12G-MC	Rcpt- Ded- Shwr		
		M.GF.02, 0.50 HP	See Connect Data	H	750	20	1	27	B	28	20	1	200	R	2# 12+ 12G-MC	Rcpt- Ded- Shwr		
		M.GF.03, 0.75 HP	See Connect Data	H	1,060	20	1	29	C	30	20	1	200	R	2# 12+ 12G-MC	Rcpt- Ded- Shwr		
		M.GF.04, 0.50 HP	See Connect Data	H	750	20	1	31	A	32	20	1	800	R	2# 12+ 12G-MC	Rcpt- Sleep Area		
		C_Washer Resd	See Connect Data	R	1,500	20	1	33	B	34	20	1	1,200	R	2# 12+ 12G-MC	Rcpt- Sleep Area		
		M.WH.01 Ignitor	See Connect Data	E	900	20	1	35	C	36	20	1	1,200	R	2# 12+ 12G-MC	Rcpt- Sleep Area		
		M.F.08,03,13	See Connect Data	R	1,500	20	1	37	A	38	20	1	1,200	R	2# 12+ 12G-MC	Rcpt- Misc		
		M.F.14 + KH.01(Hood)	See Connect Data	R	1,500	20	1	39	B	40	20	-	1,500	G	See Connect Data	M.EWH.01	1	
		M.F.05,06	See Connect Data	R	1,500	20	1	41	C	42	-	2	1,500	G	= = =	3.0 kW, 208V, 1Phs		
		M.GF.05, 0.50 HP	See Connect Data	H	750	20	1	43	A	44	20	1	400	A	See Connect Data	Appl- Kitch		
		> Spare MCCB <	- - -		0	20	1	45	B	46	Sp	1	0		- - -	< Space Only >		
		> Spare MCCB <	- - -		0	20	1	47	C	48	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	49	A	50	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	51	B	52	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	53	C	54	Sp	1	0		- - -	< Space Only >		

N# 01-	HACR Listed & Labeled MCCB	Phs-A =	33.7 %	157	A	18,856 VA	52.4 KVA Facotred End Use	146 A
N# 02-	Not Used	Phs-B =	32.2 %	150	A	18,014 VA	0.0 KVA Pass Thru Load	0 A
N# 03-	Not Used	Phs-C =	34.1 %	159	A	19,038 VA	7.9 KVA Spare	22 A
N# 04-	Not Used	Summary =		155	A	55,908 VA	60.3 KVA Total	167 A

Project:	Fayette Co Fire Station 04				LB	Schd	Fayetteville, GA. 30241	City,St.
Gen Nt 1:	Bkr Ties On Multi-Wire Ckts NEC 210.4B				Volt- LL	208	Enclosure-Mtg:	NEMA 1	Wall Surf Mtd.
Gen Nt 2:	Seismic Certified & Seismic Rated Anchors & Supports Reqd.				Volt- LN	120	Cover & Door:	Door-In-Door, With Locks	
Gen Nt 3:	Matching Pnl. Wire Gutter & Sectional Covers, Pnl To Clg. With Trim				Phs. 3	W. 4	OCP Types:	Main - MCCB-60C/75C	Branch- MCCB, 60C/75C Lugs
Gen Nt 4:	- - -				Buss Amps	100	All Busing:	CU or AL	100% N & G Busing
Gen Nt 5:	All 20A/ 1P MCCB To Have AFCI Protection (NEC-210.12)				Main OCP	MLO	Arc-Flash:	Labeled Per NEC & OSHA	
17-151	MADDOX GROUP INC.			Spare % = 15%	KA-AIC SCA	42	18.09.27	Date:	Const Status

Rv	Nt	Description	Wiring	ID	W/VA	OCP	P	#	P	#	OCP	P	W/VA	ID	Wiring	Description	Nt	Rv
	2	Ltg- Truck Hi-Bay (a)	#10+ 10G-MC	L	1,600	20	1	01	A	02	20	1	850	L	#10+ 10G-MC	Ltg- Truck Bay Util		
	2	Ltg- Truck Hi-Bay (b)	#10+ 10G-MC	L	1,600	20	1	03	B	04	20	1	835	L	#12+ 12G-MC	Ltg- Sleep Area		
	2	Ltg- Truck Hi-Bay (r)	#10+ 10G-MC	L	1,200	20	1	05	C	06	20	1	610	L	#12+ 12G-MC	Ltg- Day Area		
	2	Ltg- Extr	#10+ 10G-MC	L	460	20	1	07	A	08	20	1	880	L	#12+ 12G-MC	Ltg- Day Area		
	2	Ltg- Extr	#10+ 10G-MC	L	730	20	1	09	B	10	20	1	710	L	#12+ 12G-MC	Ltg- Offices		
	2	Ltg- Extr	#10+ 10G-MC	L	400	20	1	11	C	12	20	1	1,100	L	#12+ 12G-MC	Ltg- Exercise		
	2	Ltg- Step Lts	#12+ 12G-MC	L	200	20	1	13	A	14	20	1	0		- - -	> Spare MCCB <		
		> Spare MCCB <	- - -		0	20	1	15	B	16	20	1	0		- - -	> Spare MCCB <		
		Relay Pnl	2# 12+ 12G-MC	E	300	20	1	17	C	18	20	1	0		- - -	> Spare MCCB <		
		Security Ctrl Pnl-Ded	2# 12+ 12G-MC	E	900	20	1	19	A	20	20	1	1,400	R	2# 12+ 12G-MC	Rcpt- Sleep Area		
		V-D Telco Ctrl Pnl-Ded	2# 12+ 12G-MC	E	900	20	1	21	B	22	20	1	1,400	R	2# 12+ 12G-MC	Rcpt- Sleep Area		
		V-D Telco Ctrl Pnl-Ded	2# 12+ 12G-MC	E	900	20	1	23	C	24	20	1	600	R	2# 12+ 12G-MC	Rcpt- Sleep Area		
		Rcpt- Ded Exercise	2# 12+ 12G-MC	R	200	20	1	25	A	26	20	1	1,200	R	2# 12+ 12G-MC	Rcpt- Day Rm Area		
		Rcpt- Ded Exercise	2# 12+ 12G-MC	R	200	20	1	27	B	28	20	1	800	R	2# 12+ 12G-MC	Rcpt- Day Rm Area		
		Rcpt- Ded Exercise	2# 12+ 12G-MC	R	200	20	1	29	C	30	20	1	600	R	2# 12+ 12G-MC	Rcpt- Day Rm Area		
		Rcpt- Exercise	2# 12+ 12G-MC	R	200	20	1	31	A	32	20	1	600	R	2# 12+ 12G-MC	Rcpt- Offices		
		Rcpts- Extr	2# 12+ 12G-MC	R	200	20	1	33	B	34	20	1	600	R	2# 12+ 12G-MC	Rcpt- Offices		
		Rcpts- Extr	2# 12+ 12G-MC	R	200	20	1	35	C	36	20	1	800	R	2# 12+ 12G-MC	Rcpt- Offices		
		> Spare MCCB <	- - -		0	20	1	37	A	38	Sp	1	0		- - -	> Spare MCCB <		
		> Spare MCCB <	- - -		0	20	1	39	B	40	Sp	1	0		- - -	> Spare MCCB <		
		> Spare MCCB <	- - -		0	20	1	41	C	42	Sp	1	0		- - -	> Spare MCCB <		
		< Space Only >	- - -		0	Sp	1	43	A	44	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	45	B	46	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	47	C	48	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	49	A	50	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	51	B	52	Sp	1	0		- - -	< Space Only >		
		< Space Only >	- - -		0	Sp	1	53	C	54	Sp	1	0		- - -	< Space Only >		

N# 01-	HACR Listed & Labeled MCCB	Phs-A =	36.9 %	72	A	8,690 VA	27.1 KVA Facotred End Use	75 A
N# 02-	Thru LV Relay Pnl & LV Switching	Phs-B =	33.8 %	66	A	7,975 VA	0.0 KVA Pass Thru Load	0 A
N# 03-	Not Used	Phs-C =	29.3 %	58	A	6,910 VA	4.1 KVA Spare	11 A
N# 04-	Not Used	Summary =		65	A	23,575 VA	31.2 KVA Total	87 A



? TELCO RISER
NO SCALE

TELCO (V-D-TV) SCHEDULE

Fayette Co Fire Station 04 — **Broadband-Data-Telco Distribution-Riser Schedule** — **18.09.27** Date
Fayetteville, GA. 30241 — **KAOD** — **Const** Status

Rv#	ID #	Comments / Descriptions	(Qty) Size, Etc	Description	Nt #	Run Ft
-	T01	Serivce Conduit	(2) 4.0"C	Empty Conduits With Long-Radius Bends, From Attic To Main Telco Board / Cabinet Per Utility- Field Verify In Writing		-
-	T02	Main Telco Backboard	4 Ft x 8 Ft, Btm 18" AFF	0.75" A/D Grade Plywood, 2-Coats Of Fire-Retardant Paint		
-	T03	Main Telco Backboard ITSB	Grnd Bar	Dual-Rated, 8-Hole Lug With 2-Mtg Holes. ILSCO PET or Equal		
-	T04	ITSB Bond/Grnd To Main	(1) #2G- 1"PVC	Extend All The Way Back & Bond To Main Serivce Grnd		
-	T05	Conduits To Attic / Plenum	(5) 2.0"	From Top Of Bkbd Up & Into Plenum With 90 Degree Elbow(s)		
-	-	- - - -	- -	- - - -	- -	- -

Rv#	Nt #	General Notes Applicable To All
-	GN-01	Field Coordinate With Each Utility Service (Broadband / Voice / Data / Telco / Etc) The Specific Service Point(s), Service Route(s), Conduit Size(s) And All Related Details & Document In Writing With Each And To The Owner, G.C., Architect & Engineer.
-	GN-02	Each Conduit Bend Shall Be Long-Radius Type Bend, Conduits 2.0 Inch And Smaller, Trade Size, Shall Have Bends Of No Less Than 6X Times The Conduit Trade-Size, All Larger Conduits Shall Have A Minimum Bend Radius Of No Less Than 10X Times The Trade-Size.
-	GN-03	All In-Slab Conduit(s) Stub-Up(s) Shall Extend A Minimum Of 4 Inches Above The Slab.
-	GN-04	Each Conduit Shall Be, At EachEnd, Terminated With A Smooth Bushing; Left With A Pull-Line Tied Off At Each End, & Labeled / Tagged. Metallic Conduits Shall Have Grounding Type Bushing Bonded To The Ground System. Mark Each Conduits Location & Route On The As-
-	GN-05	Properly Fire / Smoke Seal Each Penetration Of Rated Barriers In Accordance With The Code(s).
-	GN-06	Backboards & Cabinets Shall Be Secured To The Building Structural Members, Not To Wall Surfaces.
-		

17-151 — End Of B-D-T Schedule

architecture
interiors
town planning

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Web Site: www.kaod.com

GEORGIA REGISTERED No. 13252 PROFESSIONAL ENGINEER ROBERT M MADDOX 2018 (09.30)

THE MADDOX GROUP
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DATE	ACTION	COMMENTS
18.09.27	Issued	Price, Permit & Construction

FAYETTE CO. FIRE STATION # 4

278 McElroy Road
Fayetteville, GA. 30214

Prepared for

FAYETTE CO. FIRE DEPT.

COMMISSION / JOB NO:
1748.00

SHEET TITLE:
ELECTRICAL RISER & SCHEDULES

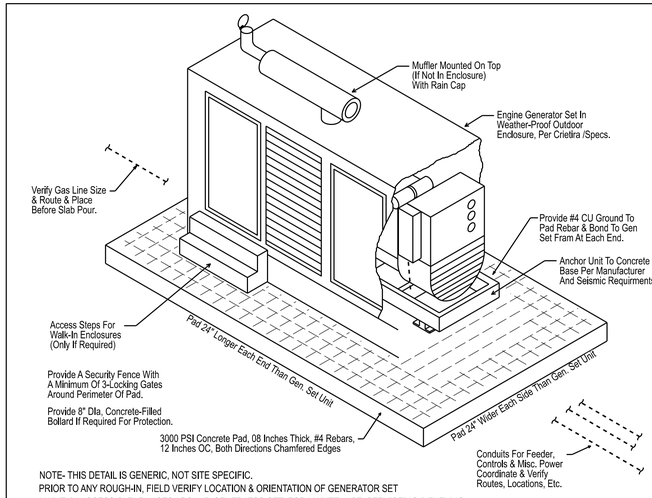
SHEET NO:
E-03

RELEASED FOR PERMIT OR CONSTRUCTION

18.09.27	Fayette Co Fire Station 04	
GS-	Rv	NATURAL GAS GENERATOR SET / ATS CRITERIA	CO
1		**GENERAL ITEMS, SUBMITTALS & DOCUMENTATION**	
1A		Provide a complete emergency power system consisting of a power generator (GenSet) with all related components and Automatic Transfer Switch (ATS). The contractor shall utilize the design service of the factory authorized system vendor to obtain the proper system operation, layout and function as required by the prevailing codes and these project criteria.	
1B		The contractor, with vendor / installer, shall thoroughly & completely review the complete system requirements, characteristics & conditions prior to quote, and provide for the complete & proper system equipment, installed & operation.	
1C		Provide all necessary installation, wiring, components, hardware, software, programming, testing and certifying to provide a complete, properly functioning systems.	
1E		These drawings & document represent only the minimum design internet. A complete system shall be provided in accordance with all standards, AHJ & Code requirements.	
1F		The contractor shall utilize the design service of the factory authorized system vendor to obtain the proper system layout(s), function, interoperability with systems of other trades, wiring & operation, as required by this specification, drawings, prevai	
1G		Coordinate with all other trades for the proper coordination and interfacing with their work, systems & control(s).	
1H		Submit complete product data & wiring diagrams showing the control panel(s), all devices, wiring and related items. All wiring & connection shall be labeled and identified. Submit plans and related data to other related trades and vendors for proper	
1I		The system design, equipment & material, function & operation shall comply with - National Electrical Code; Underwriters Laboratory Labeled; & Local Codes & Authority Having Jurisdiction	
2		**MANUFACTURERS & WARRANTY**	
2A		All components shall be new, standard manufacturer cataloged items, and shall be fully compatible & provided by the Generator Set Provider so as to **provide unit-responsibility for the complete & proper operation of the Emergency Generator System.**	
2B		Basis-Of-Design: This criteria and design is based on manufacturer-matched components & products of Cummings Power. (404-765-5150)	
2C		Equivalent Product: Products providing the equivalent performance, characteristics and features may be quoted as **Adds or Deducts** to the base design package. Catipelair / Olympian, Generac, Kohler	
		Base Warranty: 5-Year Basic Power Warranty	
2D		Service-Maintenance Agreement: Provided by the Generator Set Provider for the owner's optional acceptance.	
3		**POWER GENERATOR CRITERIA**	
3A		Provide A Complete Factory Assembled, Pre-Wired, Pre-Tested Engine Generator Set Mounted On A Steel Frame With Vibration Isolators, Siesmic Rated, Complete With Anchoring	
3B		Basis-Of-Design: This criteria and design is based on manufacturer-matched components & product of Cummings Power : C250N6 Engine Generator Set.	
3C		Application (Per ISO & Related Standards): Emergency Stand-By (ESP)	
3D		EPA Application: NSPS Stationary Emergency Certified	
3E		NFPA: 101-Life Safety; NFPA-110 Type 10 (Level 1 & @ & Standby) & NFPA-70 (NEC)	
3F		UL: UL-2200 Certified	
3G		Location Environment Temperatures & Elevation: Atlanta, Ga (Metro Area)	
3H		Power Rating (60Hz): 250-kW / 312- kVA (Nominal)	
3I		Maximum Surge Power kW: 300-kW	
3J		Maximum Motor Starting kVA (Recovering to 90% Rated Voltage): 904-kVA	
3K		Output Voltage & Phase @ 60 Hz: 208Y-120V, 3-Phase, 4-Wire	
3L		Output FLA & OCP: 867 FL Amps; 600-Amp, 100%-Rated Circuit-Breaker	
3M		Fuel Type & Use: Natural Gas, 1,951 CFH @ 50% Load, 3,440 CFH @ 100% Load.	
3N		Digital Isochronous Regulator: ISO 8528 Part 1 Class G3 Digital Governor Regulation Class; +/- 1.0% Voltage Regulation (no Load to Full Load); Digital Isochronous Frequency Regulation; Complies With Standard Commercial & Industrial Radio Frequency Emissions Regulations.	
3O		Engine:Naturally Aspirated or Turbocharged, Industrial Cast Iron Engine, 12 Volt Battery Charging Alternator, Replicable Industrial Engine Lube Filter, Unit Mounted Radiator & Cooling Pump.	
3P		Alternator: Reconnectable Type; 4-Pole Brushless Drip Proof Revolving Field Alternator; 2/3 Stator Pitch; NEMA MG1-1.65 Class-H Insulation System; Total Harmonic Distortion Less Than 5% (No Load To Full Load); Telephone Influence Factor less than 50 Per NEMA MG1-22.43; Telephone Harmonic Factor Less Than 3	
3Q		Alternator Excitation: PMG- Permanent Magnet Generator Exciter	
3R		Alternator Temp. Rise: 120-C Temperature Rise	
3S		Digital Control System: Industrial Grade, Surge-Protected, Control System, Complete With All Control Functions, Features, Metering With Alarms & NFPA-110 Level 1 Compliance.	
3T		Aux. Relays: Provide Auxiliary Dry-Contact Relay(s) Set For Remote Signaling.	
3U		Starting Battery: Provide Battery, Charger, Monitor & Battery Warmer, 0-F Rated	
3V		Exhaust Silencer: Complete Exhaust System With Residential Grade Silencer	
3W		Engine Coolant Heater: Automatic To Maintain Engine Temperature For Optimum Starting.	

18.09.27	Fayette Co Fire Station 04	
GS-	Rv	NATURAL GAS GENERATOR SET / ATS CRITERIA	CO
4		**AUTOMATIC TRANSFER SWITCH (ATS)**	
4A		Provide A Complete Factory Assembled, Pre-Wired, Pre-Tested Automatic Transfer Switch To Monitor Power Conditions, Automatically Start & Stop Generator, & Transfer Power Between Sources & Related Components & Functions.	
4B		Basis-Of-Design: This criteria and design is based on manufacturer-matched components by Cummings Power: BTPC Series Automatic Transfer Switch	
4C		Standards: CSA 282 Certified; IEEE 446 Compliant ISO 9001 Certified.	
4D		NEC & NEMA Stds: NEC 700 / 701 / 702; NEMA ICS 10 Compliant;	
4E		NFPA: NFPA-20, 70, 99 & 110-Level 01 Compliant	
4F		UL: UL-1008 Labeled	
4G		Seismic: Seismic Certified With Attachment Instructions.	
4H		Enclosure: NEMA 1 Indoor, Locking Cover, Front Mounted Controls & Meters	
4I		Auto. Transfer: Programmed-Delay (Both Directions) Open-Transition (Break-Before-Make)	
4J		Manual Transfer of ATS: Feature Allowing Manual Transfer Of Switch If Auto Transfer Fails.	
4K		Isolation By-Pass: Yes- DeEnergized Manual ByPass To Either Source Capability & Isolation of main ATS.	
4L		Poles: 3-Pole Transfer, Solid Neutral, Ground Bus	
4M		Voltage & Phase @ 60 Hz.: 208Y-120 Volts, 3 Phase, 4 Wire	
4N		Amperage: 600 Amps (Phase & Neutral) 100% Continuous Duty Rated	
4O		Aux Relays: Equipped With Two Sets Of Auxiliary Contacts Rated 10 Amps @ 250VAC.	
4P		Application: Listed for Utility-To-Generator.	
4Q		Digital Controller: Industrial Grade, Surge-Protected, Digital Microprocessor Providing Full-Authority Engine Protection With RS-485 Port For PC-Monitoring & Networking. Including, But Not Limited To, Adjustable Time Delays, Undervoltage & Overvoltage & Frequency & Voltage Imbalance Sensing, Automatic Generator Exerciser and Fully Meter & Function Indication; Date & Time Event Logging Feature.	
		Aux. Relays: UL Listed, 600VAC, To Indicate ATS Positions	
5		**RELATED COMPONENTS, EQUIPMENT & ITEMS**	
5A		Remote Annunciator: Provide A Complete Factor Pre-Assembled & Pre-Wired Wall-Flush-Mounted, Remote Generator Monitoring & Alarm Annunciator With Long-Life LED or Digital Display Providing Visual & Audible Alarms, Status & Warnings. UL Labeled; CSA Certified, CE Marked; NFPA 110 Compliant	
5B		Remote Monitoring System: Provide complete hardware, software & set-up for teh remote monitoring fo the generator set, ATS & related items. This shall include, but not be limited to, Monitor-Communicator (Data & Event Logging, Reports, Diagnostics & Security, Etc.) Communicating via GSM / CDMA Cellular Antenna, Ethernet or USB (Verify With Owner). Rated for use in industrial & outdoor conditions. UL-60950-1; CSA Certified, CE Marked; FCC Compliant, RoHS Compliant.	
5C		Enclosure: Outdoor Type (that also houses silencer) ; Heavy-Duty, Steel, Treated-Premiered-Powder Top Coat Corrosion Resistant Protective Coatings; Locking Hinged & Removable Covers & Panels; Seismic-Rated; Wind-Rated to 100-MPH, Level-1 Sound Rated	
5D		Fuel System (Natural Gas): See Engine Data, Coordinate & provide for a Natural Gas supply with the other trades and Gas Supply Company. Verify required pressure & flow requirements with all parties.	
6		**SYSTEM INSTALLATION:**	
6A		Provide for a complete & functioning installation in compliance with the National Electrical Code, NECA/ ANSI/ EGSA NEIS-404 & the manufacturer's written requirements & recommendations.	
6B		All wiring shall be installed in conduit.	
6C		All exposed generator set related wiring in unfinished areas (I.e. no ceilings) shall be in EMT conduit (minimum) with matching boxes, etc. All generator set related conduits, concealed & exposed, shall be painted red unless otherwise directed by architect.	
6D		All boxes, mountings & supports shall be labeled and approved for the purpose.	
6E		Color code, number & label all wiring & conductors per point-to-point wiring diagram.	
6F		Label each device with its ID, function & rating.	
6G		Provide a complete concrete mounting pad with structural reinforcement. Anchor the generator set per the manufacturer's recommendations.	
6H		Fully re-charge all batteries, test & report on their condition.	
6I		Change engine oil & all filters with new types as directed by the generator set manufacturer.	
6J		Provide a complete Natural Gas fuel piping system complete with valves & regulators, properly sized to supply gas at proper pressure and flow rate.	
7		**SYSTEM TEST, VERIFICATION, DOCUMENTATION & SERVICE:**	
7A		The manufacturer's factory authorized & trained representative shall provide installation guidance and assistance, and system start-up.	
7B		Prepare & provide 3 copies of bound operation manuals, part & service & "as-built" plans & wiring. Complete with the Company Names, Personnel Names with phone numbers & email address of all trades & parties involved.	
7C		The manufacturer's factory authorized & trained representative shall provide a total system checkout of emergency generator system and testing, and shall send written certification of the system(s) proper operation to the owner, architect, engineer.	
7D		The system shall be fully tested in the presence of the owner's representative(s), inspector(s), and AHJ . personnel.	
7E		Perform a on-site 3 hour full-load test. Provide load bank as needed for the testing. Fully document the test.	
7F		At the completion of the project, demonstrate proper system operation by turning off the normal power source to simulate normal source power failure. Observe & document the system operation, allow to run for 30 minutes minimum, then restore normal power, observing proper return to normal source power & system shut-down.	

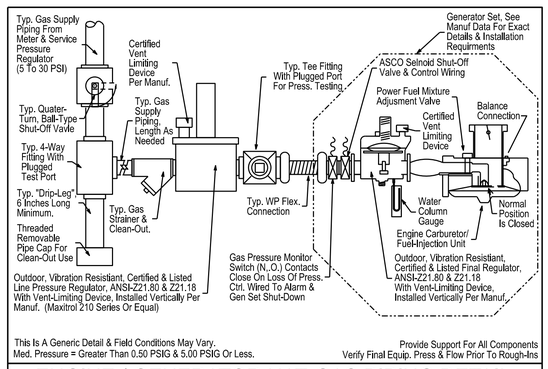
17-151 END OF GENERATOR SET / ATS CRITERIA



NOTE- THIS DETAIL IS GENERIC, NOT SITE SPECIFIC.
PRIOR TO ANY ROUGH-IN, FIELD VERIFY LOCATION & ORIENTATION OF GENERATOR SET
MAINTAIN ACCESS CLEARANCES AROUND GENERATOR SET, FOR MAINTEANCE, SERVICEING & FUELING.
ALL GEN. SET CONNECTIONS SHALL BE MADE WITH LIQUID-TITE FLEXIBLE CONNECTORS.

TYP. NAT-GAS GEN. SET- OUTDOOR MTG. DETAIL

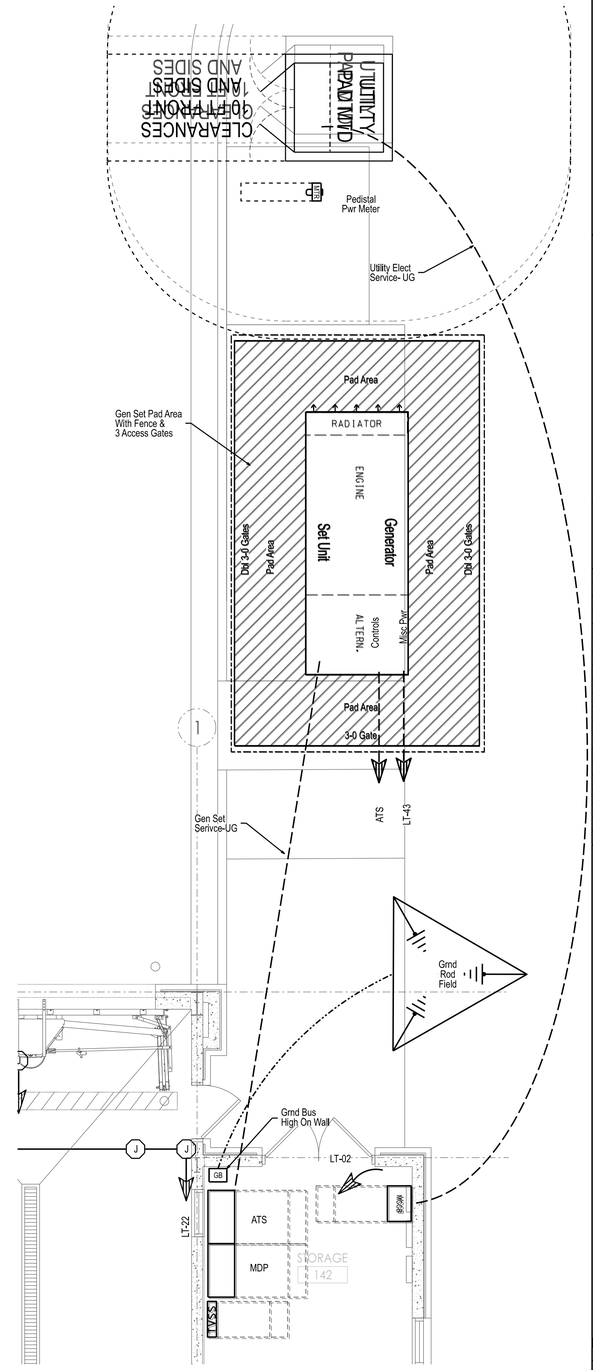
DETAIL # - MG NOT TO SCALE



This Is A Generic Detail & Field Conditions May Vary.
Med. Pressure = Greater Than 0.50 PSIG & 5.00 PSIG Or Less.
Provide Support For All Components
Verify Final Equip. Press & Flow Prior To Rough-Ins

ENGINE / GENERATOR NAT-GAS PIPING DETAIL

MG Detail #: Not To Scale



1 ELECTRICAL- GEN SET PART PLAN

10 20

architecture
interiors
town planning

KAOD

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GEORGIA REGISTERED No. 13252 PROFESSIONAL ENGINEER ROBERT M MADDOX 2018 09 30

THE MADDOX GROUP
DESIGN & ENGINEERING
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DATE	ACTION	COMMENTS
18.09.27	Issued	Price, Permit & Construction

FAYETTE CO. FIRE STATION # 4

278 McElroy Road
Fayetteville, GA. 30214

Prepared for

FAYETTE CO. FIRE DEPT.

COMMISSION / JOB NO:
1748.00

SHEET TITLE:
ELECTRICAL GEN. SET. CRITERIA & DETAILS

SHEET NO:
E-0.4
RELEASED FOR PERMIT OR CONSTRUCTION

18.09.27		Fayette Co Fire Station 04	Const
ID #	Rv #	**LOW-VOLTAGE RELAY SWITCHING (LVRS) CX-HARDWIRED SYSTEM**	Check Off
7.01	-	GENERAL - Providing complete Low-Voltage Switching System, consisting of LV Switching Panels with LV switching relays, completely pre-assembled & pre-wired with relays, power supply, controls and all components for a complete and properly operating system. Provide matching Hard-Wired LV switching devices, and controls.	
7.02	-	MANUFACTURER - The design is based on the products of Hubbell CX Lighting & Building Automation and shall be the manufacturer for the LV Relay Switching System.	
7.03	-	ALTERNATE MANUFACTURERS - Products of other manufacturers, providing the equivalent level of product quality, operation, functionality and features, shall be submitted as add / deduct to this manufacture for owner's considerations, complete with full product documentation and literature indicating complete compliance and performance.	
7.04	-	CODES & CERTIFICATIONS - All products shall be UL Listed, CSA approved, and comply with EEMAC / NEMA standards & NEC.	
7.05		WARRANTY - The system manufacturer shall warrant the complete system with a Full-Service-Warranty on all parts and labor for a minimum of 10 Years.	
7.06		SUBMITTALS - Prepare & submit project specific product documentation, including but not limited to, manufacturer's qualifications & personnel contact information, compcnent product data, complete relay & component schedules and matching wiring diagrams for field use in the proper installation of the system.	
7.07		RELAY PANELS - Provide pre-assembled 16 or 24 Pole relay panels, pre-finished steel with hinged & locking cover / door for surface of flush mounting. The interior shall divider for LV siring per code, control power transformer sized for 125% of the load, LV devices and controls as required.	
7.08		RELAYS - Provide relays as scheduled and required for proper operation. Relays shall be Heavy-Duty, Full Load Rated, UL-508 Labeled, HID, breaker snap-in style, mechanically latching type with a manual ON/OFF switch that display the switches' ON/OFF state. 1-Pole, 20 Amp relays rated at 120 & 277 VAC. 1-Pole, 30 Amp relays rated at 120, 277 & 347 VAC. 2-Pole 20-Amp relays shall be rate for up to 480 VAC. UL 508 short-circuit rating of 14,000 Amps. Rated for switching of incandescent, fluorescent, electronic ballast & HID loads. 3,000 Amps inrush capability. Relays shall have a 5 year warranty.	
7.09		CONTROLLER- Solid-state, programmable relay controller to receive all control inputs and control all ouptus to relays. Controller shall include Astronomical Schedule 365-Day Time Clock-Scheduler, Automatic Daylight Saving Time & Leap-Year Compenstion. Controller to have built-in keypad for programming & non-volatile memory.	
7.10		LCD USER INTERFACE- Provide front-mounted LCD display with touch-button interface device with instructions.	
7.11		CONTROL WIRING- Hard-Wired LV Two-Wire Per Switch Or Input Control Device	
7.12		SWITCHING STATIONS- Provide switching devices where shown and / or required. Devices shall be matching two-wire type. Each Switch Station shall provide for up to 6 Pilot-Light buttons. Devices located in wet locations shall be Wet-Location listed & labeled. Devices shall be of same manufacturer as the LV system manufacturer U.N.O.	
7.13		WALL SWITCH / LOCAL USE VANDAL RESISTIANT - Provide where shown or required heavy-duty, vandal resistant wet-location labeled switch & cover plate with tamper resistant screws. Engrave cover plate with switch function (i.e. lights). Douglas WR-8321 Series	
7.14		WALL SWITCH / KEY OPERATED - Provide where shown or required heavy-duty, key-operated switch & cover plate. Engrave cover plate with switch function (i.e. lights).	
7.15		WALL MASTER / GROUP SWITCHES - Provide where shown or required heavy-duty, multi-gang group mounted rocker type switches, complete with all switches, mounting hardware & cover plates. Label switches with their function (i.e. lights).	
7.16		INSTALLATION PER MANUFACTURER, NEC, NEIS - The LVRS shall be installed in accordance with the manufacturer's written documentation, NEC & NEIS. The manufacturer's factory authorized & trained agent shall provide installation guidance and assistance and system start-up.	
7.17		INSTALLATION CABLING - All wiring shall be CU in conduit or Type MC cable unless otherwise noted. The wire size shall be per the manufacturer. Wire size shall be increased to the next larger standard size for runs over 100 Feet.	-
7.18		INSTALLED MANUFACTURERS CHEK-OUT & CERTIFICATION: Prior to energizing the system, the Manufacturers Authorized Agent, shall perform and On-Site Check-Out of the completed system and provide written certification that the components and installation are acceptable, that the system is fully programmed / scheduled and fully functional & properly operating.	
7.19		INSTALLED DOCUMENTATION - Provide three sets of As-Installed Field Record document of the completed system, showing all equipment, components & wiring. Include complete manufacturer & product documentation and warranty forms.	
7.20		INSTALLATION DEMONSTARTION & TRANING - The complete system(s) shall be fully demonstrated to the Owners Representative(s) to show full compliance and proper operation. Train the Owner's Personnel in the proper operation, programming and maintenance of the system.	-
-			-
End Of Low Voltage Relay Switching Systems			

LOW-VOLTAGE RELAY PANEL (LVRP) SCHEDULE

Proj	**Fayette Co Fire Station 04**	**LV Relay System Basis Of Design**	Pnl ID: **LVRP-A**
Place	**Fayetteville, GA. 30241**	Hubbell Relay System: CX Series	Issued 18.10.11
For	KA Oldham Design, Inc.	Enclosure Type: NEMA-1 / 3R	Status: Const

LV Relay Schedule - Devices, Controls, Etc.

Rv#	Rly #	Rly Type	Rly Amps	Rly Pole	PNL	CKT #	Circuit Load Description	LV Ctrl. Sta: LCA	LV Ctrl. Sta: LCB	LV Ctrl. Sta: LCC	LV Ctrl. Sta: LCD	LV Ctrl. Sta: LCE	LV Ctrl Function Abbrv.	Specific Item Nt #
-	01	L	20	1	LB	*01*	Ltg- Truck Hi-Bay (a)	a	a	a	a	a	LLG, LSD	1,2
-	02	L	20	1	LB	*03*	Ltg- Truck Hi-Bay (b)	b	b	b	b	b	LLG	1
-	03	L	20	1	LB	*05*	Ltg- Truck Hi-Bay (c)	c	c	c	c	c	LL1	3
-	04	L	20	1	LB	*05*	Ltg- Truck Hi-Bay (d)	d	d	d	d	d	LL1	3
-	05	L	20	1	LB	*07*	Ltg- Extr	e	e	e	e	e	LASa, LLG	4,5
-	06	L	20	1	LB	*09*	Ltg- Extr	e	e	e	e	e	LASa, LLG	4,5
-	07	L	20	1	LB	*11*	Ltg- Extr	e	e	e	e	e	LASa, LLG	4,5
-	08	L	20	1	LB	*13*	Ltg- Step Lts	- -	- -	- -	- -	- -	LASb	4
-	09	-	-	1	-	-	< Space Only >	- -	- -	- -	- -	- -	- -	-
-	10	-	-	1	-	-	< Space Only >	- -	- -	- -	- -	- -	- -	-
-	11	-	-	1	-	-	< Space Only >	- -	- -	- -	- -	- -	- -	-
-	12	-	-	1	-	-	< Space Only >	- -	- -	- -	- -	- -	- -	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Specific Item Notes #

N01-	Local On / Off Switching From Multiple Locations (Truck-Bay Normal Hi-Bay Lts)
N02-	Day-Light Sensor & Dimming For Fixtures Adjacent Truck-Bay Doors.
N03-	Local On / Off Switching From Multiple Locations (Truck-Bay "Red Night Vision" Hi-Bay Lts)
N04-	Astronomic Schedule On / Off a & b represent different schedules per owner.
N05-	"e" Switch Provides A Timed (Verify 1-Hr) Over-Ride To Turn Lights On IF They Are Off.
-	

Control Funtion & Device Type

Rv#	Hubbell Device Series	Mtg	LV Ctrl Function Abbrv.	LV Ctrl Function Description	Comments & Notes
-	LV-Pnl	Ctrl Pnl	LASx	Astro-Time-Control, Schd-x	Built-In Feature Of LV Relay Panel Controller
-	LVSD	Wall	LDM	0-10V Dimmer- Manual	Verify Matching Dimming Type Ballast / Driver
-	CXSW	Wall	LDP	0-10V Dimm., 6-Button PreSet	- - - - - -
-	LVSKEY	Wall	LK	1-Gang 3-Pos.Key-Switch	- - - - - -
-	LVS-x-PL	Wall	LL1	Local Control Push-Button	- - - - - -
-	LVS-x-PL	Wall	LLG	Local Group Ctrl Push-Button	- - - - - -
-	LVS-x-PL	Wall	LLM	Local Master Ctrl Push-Button	- - - - - -
-	LVS-x-PL	Wall	LPB	LV Push-Button	- - - - - -
-		Wall / Clg	LOA	Occ. Sensor Type-A (On-Off)	Verify Exact Mtg Location Per Manuf For Proper Operation
-		Wall / Clg	LSD	Sun Day Lt Sensor	Verify Exact Mtg Location Per Manuf For Proper Operation
-	- - -	- - -	- - -	- - -	- - - -

General Notes Applicabel To All

G01	Provide A Complete & Properly Functioning System.
G02	The Complete System(s) With All Comonets, Design, Etc. Shall Be Of Single Manufacturer Responsibility.
G03	Provide Complete Product & Wiring Submittals For Review
G04	Verify Final Device Color(s) With Archt-Owner Befor Ordering & Submittals
G05	LV Switch Devices To Be Labeled Or Color-Coded, Coordinate With Archt-Owner Beibre Ordering & Submittals
G06	Provide All Enviromental Return Air Cabling & Wiring Per Manufacturer.
G07	Program System & Insturct User On Proper Operation.
- - -	- - -

MADDOX GROUP INC. End Of LV Relaiy Schedule 17-151

Proj:	Fayette Co Fire Station 04	ELECTRICAL CONNECTIONS DATA	18.09.27	Date
Place:	Fayetteville, GA. 30241			Status

Rv #	ID / TAG	Qty #	N.E.R, X	Equipment / Description	Power Data- HP/ kW/ Etc	Volts	Phs	OCP A/P	Fed From	Wiring Data	Connection Data & Misc	Item Note #
				Archt. Items								
-	A-100	6	N	Doors 4-Fold	1.0 HP Each	208	3	- -	LT	#10 + 10G- MC	Direct Conn Per Manuf	
-	A-200	1	N	C-Washer	Typ Resd	120	1	20/1	LA	#12+ 12G-MC	Rcpt- Ded, GFCI	
-	A-201	1	N	C-Dryer	Typ Resd	208	1	30/1	LA	#10 + 10G- MC	Rcpt- NEMA 13-30R	
	A-300	1	N	Ice Maker		120	1	20/1	LA	#12+ 12G-MC	Rcpt- Ded, GFCI	
	A-301a	1	N	Kitchen Hood- Ex Fan	See Mech							
	A-302	1	N	Kitch- Refg	Typ Resd	120	1	20/1	LA	#12+ 12G-MC	Rcpt- Ded, GFCI	
	A-303	1	N	Kitch-Freez	Typ Resd	120	1	20/1	LA	#12+ 12G-MC	Rcpt- Ded, GFCI	
	A-304	1	N	Kitch- Microwave	Typ Resd	120	1	20/1	LA	#12+ 12G-MC	Rcpt- Ded, GFCI	
	A-305	1	N	Kitch- Dishwsher	Typ Resd	120	1	20/1	LA	#12+ 12G-MC	Rcpt- Ded, GFCI	
	A-306	1	N	Kitch- Disposal	Typ Resd	120	1	20/1	LA	#12+ 12G-MC	WP Toggle Switch & Rcpt- Ded, GFCI	
	A-400a-d	4	N	Exercise Eqipment	Typ Resd	120	1	20/1	LB	#12+ 12G-MC	Rcpt- Ded	
				Building System Items								
	B-100	1	N	Fire Prot. Sprinkler Control Pnl	- - - -	120	1	20/1	LA	#12+ 12G-MC	Rcpt- Ded, TVSS	
	B-200	1	N	Security Equipment	- - - -	120	1	20/1	LB	#12+ 12G-MC	Rcpt- Ded, TVSS	
	B-300	1	N	Voice-Data-Telco Equipment	- - - -	120	1	20/1	LB	#12+ 12G-MC	Rcpt- Ded, TVSS	
	B-300	1	N	Voice-Data-Telco Equipment	- - - -	120	1	20/1	LB	#12+ 12G-MC	Rcpt- Ded, TVSS	
				FEE Items								
-	E-100	1	N	Air Compressor- Air Tanks, 7,000 PSI	20 HP	208	3	100	MDP	3# 4+ 8G- 1.00°C	DS- 100A,3P,NF,G,N-1R	1, 2
-	E-110	1	N	Air Compressor- Gen Use	7.5 HP	208	3	50	MDP	3# 8+ 10G- 0.75°C	DS- 60A,3P,NF,G,N-1R	
-	E-120	1	N	Washer-Extractor	Continental EH255	208	3	40	LT	3# 8+ 10G- MC	DS- 60A,3P,NF,G,N-1R	
-	E-121	1	N	Drying Cabinet	CircuiAir D634	208	3	30	LT	3# 10+ 10G- MC	DS- 30A,3P,NF,G,N-1R	
	D-201	1	N	Truck Pwr	Charge Pwr	120	1	20/1	LT	#12+ 12G-MC	Via Clg Pwr Reel	
	D-202	1	N	Truck Pwr	Charge Pwr	120	1	20/1	LT	#12+ 12G-MC	Via Clg Pwr Reel	
	D-203	1	N	Truck Pwr	Charge Pwr	120	1	20/1	LT	#12+ 12G-MC	Via Clg Pwr Reel	
	D-204	1	N	Truck Pwr	Charge Pwr	120	1	20/1	LT	#12+ 12G-MC	Via Clg Pwr Reel	
	D-205	1	N	Truck Pwr	Charge Pwr	120	1	20/1	LT	#12+ 12G-MC	Via Clg Pwr Reel	
	D-206	1	N	Truck Pwr	Charge Pwr	120	1	20/1	LT	#12+ 12G-MC	Via Clg Pwr Reel	

Notes - Item Specific

01-	0-5 Min Power-Loss Delay Restart (Time-Mark 18-volts or Equal)	02-	With "Soft-Start" Motor Starter
03-	- - - -	04-	- - -

Notes - Applicable To All

G1-	Coordinate & Verify Data w/ Other Trades Prior To Orders, Rough-Ins	G2-	Make Final Connections To Equipment Per Equip. Manuf. Data
G3-	-	G4-	- - -

ABBREVIATIONS & TERMS		ABBREVIATIONS	
DC	Direct Connect Per Manuf	MCCB	Molded Case Circuit Breaker
DB	Disconnect MCCB In NEMA Encl., A&P As Shown, Flex & Conn.	F	Fuse
DF	Disconnect Fused In NEMA Encl., A&P As Shown, Flex & Conn.	FHMS	Fractional HP Mtr Rated Toggle Switch
DS	Disconnect Non-Fused In NEMA Encl., A&P As Shown, Flex & Conn.	HACR	Heating Air Conditioner Rated (Breaker)
DTS	Disconnect Toggle Switch, 120V-277V, 20A, 1P.	MCP	Motor Ckt Protector
		Px	Bus Plug- B/F/N
N-#	NEMA Encls Type (1, 3R, 4X, Etc)	WP	Weather Proof (NEMA-3R)
PR	Power Receptacle, Type As Reqd Or Shown	N	New
Rcpt	Recptacle; NEMA= NEMA Config. Type; GFC= Ground Fault Interrupter.	E	Existing, Remains In-Place
TS	Toggle Switch, Motor Rated, 30 Amp, 1.0 HP, 120-Volt, 1-2-3 Pole Rated.	R	Relocate Existing
		X	Demo- Remove

MADDOX GROUP INC. End OF Elect. Connection Data 17-151

Proj:	Fayette Co Fire Station 04	ELECTRICAL CONNECTIONS DATA	18.09.27	Date
Place:	Fayetteville, GA. 30241			Status

Rv #	ID / TAG	Qty #	N.E.R, X	Equipment / Description	Power Data- HP/ kW/ Etc	Volts	Phs	OCP A/P	Fed From	Wiring Data	Connection Data & Misc	Item Note #
				Mechanical HVAC & Plumbing Items								
-	M.AFU.0-4	4	N	HVAC> AFU (Air Filtering) Air-Vac-911	1.0 HP	208	3	- -	LT	As Shown	DS- 30A, 3P, F-10A, G, N-1R	
-	M.CU.01	1	N	Cond Unit	2.0 Ton, 14.1 MCA	208	1	20	LA	#12+ 12G-MC	DS- 30A,2P,NF,G,N-3R	1
-	M.CU.02	1	N	Cond Unit	2.5 Ton, 16.8 MCA	208	1	25	LA	#12+ 12G-MC	DS- 30A,2P,NF,G,N-3R	1
	M.CU.03	1	N	Cond Unit	4.0 Ton, 20.9 MCA	208	1	35	LA	#10+ 10G-MC	DS- 30A,2P,NF,G,N-3R	1
	M.CU.04	1	N	Cond Unit	2.5 Ton, 16.8 MCA	208	1	25	LA	#12+ 12G-MC	DS- 30A,2P,NF,G,N-3R	1
	M.GF.01	1	N	Furnace, Gas Heat	0.50 HP	120	1	20A,1P	LA	#12+ 12G-MC	DTS- 20A,1P	
	M.GF.02	1	N	Furnace, Gas Heat	0.50 HP	120	1	20A,1P	LA	#12+ 12G-MC	DTS- 20A,1P	
	M.GF.03	1	N	Furnace, Gas Heat	0.75 HP	120	1	20A,1P	LA	#12+ 12G-MC	DTS- 20A,1P	
	M.GF.04	1	N	Furnace, Gas Heat	0.50 HP	120	1	20A,1P	LA	#12+ 12G-MC	DTS- 20A,1P	
	M.GF.05	1	N	Furnace, Gas Heat	0.50 HP	120	1	20A,1P	LA	#12+ 12G-MC	DTS- 20A,1P	
	M.F.01	1	N	Fan, Switch W/ Lts	0.10 HP	120	1	- -	- -	#12+ 12G-MC	DTS- 20A,1P	
	M.F.02	1	N	Fan, Switch W/ Lts	0.10 HP	120	1	- -	- -	#12+ 12G-MC	DTS- 20A,1P	
	M.F.03	1	N	Fan & Switch	0.10 HP	120	1	- -	- -	#12+ 12G-MC	DTS- 20A,1P	
	M.F.04	1	N	Fan, Switch W/ Lts	0.10 HP	120	1	- -	- -	#12+ 12G-MC	DTS- 20A,1P	
	M.F.05	1	N	Fan & T-Stat	0.10 HP	120	1	- -	- -	#12+ 12G-MC	DTS- 20A,1P	
	M.F.06	1	N	Fan, Switch W/ Lts	0.25 HP	120	1	- -	- -	#12+ 12G-MC	DTS- 20A,1P	
	M.F.07	1	N	Fan, Switch W/ Lts	0.10 HP	120	1	- -	- -	#12+ 12G-MC	DTS- 20A,1P	
	M.F.08	1	N	Fan & T-Stat	0.10 HP	120	1	- -	- -	#12+ 12G-MC	DTS- 20A,1P	
	M.F.09	1	N	Fan & Switch	0.25 HP	120	1	20A,1P	LT	#12+ 12G-MC	DTS- 20A,1P	
	M.F.10	1	N	Fan & Switch	0.25 HP	120	1	20A,1P	LT	#12+ 12G-MC	DTS- 20A,1P	
	M.F.11	1	N	Fan, Mech Ctrls	0.25 HP	120	1	20A,1P	LT	#12+ 12G-MC	DTS- 20A,1P	
	M.F.12	1	N	Fan, Mech Ctrls	2.0 HP, 2-Speed	208	3	20A,3P	LT	#12 + 12G- MC	DS- 60A,3P,NF,G,N-1R	
	M.F.13	1	N	Fan & Switch	0.10 HP	120	1	20A,1P	LA	#12+ 12G-MC	DTS- 20A,1P	
	M.F.14	1	N	Fan, Range Exahust	0.50 HP	120	1	20A,1P	LA	#12+ 12G-MC	DTS- 20A,1P	
	M.KH.01	1	N	Kitchen Hood- Lts & Fire Supp	See Mech	120	1	20/1	LA	#12+ 12G-MC	J-Box Flex & Connect	
	M.EWH.01	1	N	Heat, Wall Heater	2.0 kW	208	1	20A,2P	LA	#12 + 12G- MC	Direct Conn	
	M.EWH.02	1	N	Heat, Wall Heater	3.0 kW	208	1	20A,2P	LT	#12 + 12G- MC	Direct Conn	
	M.EWH.03	1	N	Heat, Wall Heater	2.0 kW	208	1	20A,2P	LT	#12 + 12G- MC	Direct Conn	
	M.EWH.04	1	N	Heat, Wall Heater	3.0 kW	208	1	20A,2P	LT	#12 + 12G- MC	Direct Conn	
	M.GRH.01	1	N	Gas IR Heat Tube	Ctrls & 0.125 HP Fan	120	1	20A,1P	LT	#12 + 12G- MC	DTS- 20A,1P	
	M.GRH.02	1	N	Gas IR Heat Tube	Ctrls & 0.125 HP Fan	120	1	20A,1P	LT	#12 + 12G- MC	DTS- 20A,1P	
	M.GRH.03	1	N	Gas IR Heat Tube	Ctrls & 0.125 HP Fan	120	1	20A,1P	LT	#12 + 12G- MC	DTS- 20A,1P	
	M.GRH.04	1	N	Gas IR Heat Tube	Ctrls & 0.125 HP Fan	120	1	20A,1P	LT	#12 + 12G- MC	DTS- 20A,1P	
	M.GRH.05	1	N	Gas IR Heat Tube	Ctrls & 0.125 HP Fan	120	1	20A,1P	LT	#12 + 12G- MC	DTS- 20A,1P	
	M.GRH.06	1	N	Gas IR Heat Tube	Ctrls & 0.125 HP Fan	120	1	20A,1P	LT	#12 + 12G- MC	DTS- 20A,1P	
	M.GRH.07	1	N	Gas IR Heat Tube	Ctrls & 0.125 HP Fan	120	1	20A,1P	LT	#12 + 12G- MC	DTS- 20A,1P	
	M.GRH.08	1	N	Gas IR Heat Tube	Ctrls & 0.125 HP Fan	120	1	20A,1P	LT	#12 + 12G- MC	DTS- 20A,1P	
	M.PWH.01	1	N	Wtr Htg, Tank, Gas	Ctrls, Gas Ignitor	120	1	20A,1P	LT	#12 + 12G- MC	DTS & GFCI Rcpt	
	M.PWH.02	1	N	Wtr Htg, Tank, Gas	Ctrls, Gas Ignitor	120	1	20A,1P	LT	#12 + 12G- MC	DTS & GFCI Rcpt	
	M.HCP.01	1	N	Circ Pump, HW	Ctrls + 0.125 HP	120	1	20A,1P	LT	#12 + 12G- MC	DTS & GFCI Rcpt	

Notes - Item Specific

01-	0-5 Min Power-Loss Delay Restart (Time-Mark 18-volts or Equal)	02-	With "Soft-Start" Motor Starter
03-	- - - -	04-	- - - -

Notes - Applicable To All

G1-	Coordinate & Verify Data w/ Other Trades Prior To Orders, Rough-Ins	G2-	Make Final Connections To Equipment Per Equip. Manuf. Data
G3-	- -	G4-	- - -

MADDOX GROUP INC. End OF Elect. Connection Data 17-151

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KAOD

K A Oldham Design, Inc.
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GEORGIA REGISTERED No. 13252 PROFESSIONAL ENGINEER ROBERT M MADDOX 2018 09 30

THE MADDOX GROUP
DESIGN & ENGINEERING
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DATE	ACTION	COMMENTS
18.09.27	Issued	Price, Permit & Construction

FAYETTE CO.
FIRE STATION
4

278 McElroy Road
Fayetteville, GA. 30214

Prepared for

FAYETTE CO.
FIRE DEPT.

COMMISSION / JOB NO:
1748.00

SHEET TITLE:
ELECTRICAL & LIGHTING PLAN

SHEET NO:
E-10

RELEASED FOR PERMIT OR CONSTRUCTION

LOW-VOLTAGE DEVICE - ROUGH-INS

SYMBOLS	MTG/UNO	DESCRIPTIONS
	FLR MTD	VOICE-DATA EQUIPMENT RACK/ CABINET, FREE STANDING (BY OTHERS)
	TOP 60" AFF	VOICE-DATA EQUIPMENT PANEL, WALL MOUNTED (BY OTHERS)
	BTM 18" AFF	VOICE-DATA EQUIP.- PROVIDE WALL MTD. BACKBOARD, 0.75" THICK A/D GRADE PLY-WOOD, SIZE A PRESCRIBED
	18" AFF	VOICE JACK WALL MTD QTY. JACKS AS SHOWN
	18" AFF	DATA JACK WALL MTD QTY OF JACKS AS SHOWN
	18" AFF	COMBO VOICE-DATA JACKS QTY. JACK DEVICES AS SHOWN
	18" AFF	TV / BROADBAND JACK(S) DUPLEX PLATE WALL MTD

NOTES

1- This Contractor Is To Provide For Wiring Pathways For Each Low-Voltage Device Shown Consisting Of A "Ring & String" And / Or Wall-Box & Conduit Stub-Ups. The Low-Voltage Cabling & System(s) Is "By-Others".
2- Ring & String= 2-Gang Wall Plaster Ring & String To Accessible Plenum.
3- Wall Box & Stub Ups= 2-Gang (4" Square) Box With 1-Gang Plaster-Ring, With 1.25" Conduit Stub-Up To Accessible Ceiling Plenum With A Pull-String From Box To Conduit End & Tied-Off.
4- Floor Box Mounted Devices= Provide A Floor Box Of Type As Prescribed With Low-Voltage Device Mounting Plates and 1.25" E.C. Under-Floor & Extended To The Tenants Accessible Plenum With Pull-String. Products, Set-Ups, Programming, & Related.
5- All Conduit / Raceway Bends Shall Be Long-Radius Bends (10X Diameter).
6- The Owner / Tenant Provides All The Remaing Materials!, Installation, Products, Set-Ups, Programming, & Related.

RECEPTACLE DEVICES

15A	20A	Mtg-UNO	Descriptions	LEGRAND-P&S Series
		18" AFF	Single Rcpt, HD Tamper Resistant	TR 26/36 x
		18" AFF	Duplex Rcpt.	PT26 2/3 52x
		18" AFF	Quad Rcpt. (2-Duplex)	415/420
		18" AFF	Duplex WR-ST-TR GFCI Rcpt	PT 15/20 97x
		18" AFF	Duplex-WR-ST-TR-GFCI Rcpt,+ WP In-Use Cover	PT 15/20 97x & WIUC10x
		18" AFF	Duplex Surge Protected (See Wiring Notes)	PTTR-5262-xx-SP
		18" AFF	Two Duplex Surge Prot. (See Wiring Notes)	(2)PTTR-5262-xx-SP
		18" AFF	Dplx Rcpt-Top Switched	PT26 2/3 52x
		18" AFF	TR Duplex Rcpt & 2-USB Type-A Ports, Class-2,0	TR5 2/3 62YSBx
		18" AFF	Tamper Resistant Duplex Rcpt.	PTTR 26 2/3 62x
		18" AFF	Tamper Resistant Duplex Rcpt. ST-GFCI	PT 15/20 97NAWx

COMMENTS & NOTES

01- Devices To Be UL20, UL498 Listed & Labeled Where Applicable.
02- Devices To Be FSUL-WS896, FSUL-WC596 Compliant Where Applicable.
03- Devices To Be NFTA (Buy American) Where Aviatable.
04- Devices To Be Legrand / P&S. PlugTail. Specification Grade Devices, UNO.
05- Devices To Be Decor Style Unless Not Available In Decor Style.
06- Provide Smooth Finish Matching P&S Trade-Master Grade Cover Plates,
07- Products Of Other Manufactures, Equivalent In Apperance, Features, Performance, Rating & Size, Are Acceptable.
08- Color As Selected By Owner / Tenant Or Architect.
09- Field Verify Final Exact Location Prior To Rough-In With Archt., Owner / User.
10- Multiple Adjacent Devices Shall Be Mtd In Multi-Gang Box With Multi-Gang Cover.
11- Surge Protective Recpts.> UL1449, 3-Mode, 340 Joules, LED & Audible Alarm.

MISC. DEVICES & ITEMS

SYMBOL	DESCRIPTIONS U.N.O.	COMMENTS - UNO
	Outlet(s)- Special Type As Reqd., 48" AFF (Verify Final Mtg Htg)	As Noted Or Required
	Power Pole, Type As Noted, Secure To Structure	Hubbell AL Serv Poles Series Or Equal
	Poke-Thru Floor Device As Noted P-Power, D-Data, C-Comm	Hubbell FRPT Series Or Equal
	Multi-Service Floor Box (P-V-D), Type As Reqd., Coord. Exact Placement	Hubbell 3-4-8 Gang Series Or Equal
	1-Gang Floor Boxes, Type As Reqd., J-JBox, D-Data, P-Pwr, T-Telco	Hubbell System-One Series Or Equal
	Plug-Mold Raceway, 2-Channel Type Lenght As Shown Or Reqd.	Wiremold 4000 Series Or Equal
	Surface Raceway, 2-Channel Type Lenght As Shown Or Reqd.	Wiremold DS4000 Series Or Equal
	Door Bell Button, Lighted, WP, 48"AFF	Nutone-BK142LWH
	Door Bell Chime, Multi-Tone	Chime Kit

COMMENTS & NOTES

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5- Products Of Other Manufactures, Equivalent In Apperance, Features, Performance, Rating & Size, Are Acceptable.

WIRING & EQUIPMENT

SYMBOLS	DESCRIPTIONS
	J-Box Clg / Wall Mtd. @ 24" AFF UNO
	Flexible Conduit, LT Damp-Wet Areas
	Solid Curved- Concealed Wiring
	Solid Straight- Exposed Wiring
	Dashed- In-Slab Or U.G. Wiring
	Arrowhead- Home Run As Shwon
	Surf. Mtd Multi-Channel Raceway
	Grounding Symbol / Grnd Rod
	Plywood Bkbd, Size As Noted
	Motor, F- Fract. HP, #- HP
	Manual Motor Rated Switch, 30A, 3P, 600V, NEMA-3R Encls
	Magnetic Motor Combo Starter / Switch, Ratings As Noted Or Scheduled
	Electric Heat Unit
	Disc. Switch, Ratings As Noted
	Panel / Distb. Panel & Clearances
	Distrib. Equip. & Clearances
	Transformer & Clerances

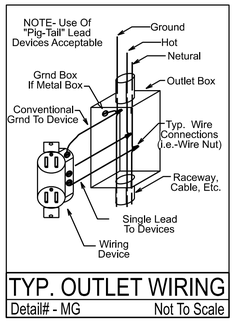
NOTES & COMMENTS

1- Single Branch Circuit Homeruns (#12) To The Same Panel May Be Combined Into Multi-Circuit Homeruns Of No More Than (2) 3-Ckt/ 4-Wire Homeruns. Note Multi-Pole OCP Required At Panel.

2- Every Ckt., Regardless Of Conduit Type, Shall Be Provided With A Green Ground Wire (#12 Min), Size Per Code U.N.O.

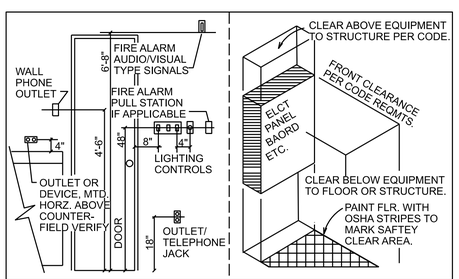
3- Where IG CKts. Are Required, Each IG Ckt. Shall Have A Seperate (Non-Shared) Netural & A Shared Insulated Ground (IG) Conductor.

4-Grouping Of Controls / Switching May Be Indicated By Lower Case Letters (i.e.- a,b,c- - -).



TYP. OUTLET WIRING

Detail# - MG — Not To Scale



TYP. DEVICE & PANEL MOUNTING

DETAIL # - MG — NOT TO SCALE

LEGEND NOTES

18.09.24		Fayette Co Fire Station 04	
#	Rv	LEGEND NOTES - E11	CO
01	-	HVAC IR Htr Ignitor & Fan Power (Verify 120V)- Provide Motor-Rated Toggle Disc. Switch & Connect Per Manuf.	
02	-	HVAC Louver Actuator (Verify 120V)- Provide Motor-Rated Toggle Disc. Switch & Connect Per Manuf.	
03	-	Door Power- Field Verify Final Pwr Needs Prior To Rough-Ins. (1.0 HP, 208V, 3Phs). Set J-Box & Fused Disconnect With 10 Amp Class-J Fuses. Verify "Wirless" Controls Used.	
04	-	HVAC Air Filtration Unit(s) (Verify Power) (1.0 HP, 208V, 3Phs). Set J-Box & Fused Disconnect With 10 Amp Class-J Fuses.	
05	-	Auto-Eject Vechile Cord Reel: Prior To Rough-In Or Ordering, Field Verify Exact Vehicle Power & Outlet Type Requirments. Wall / Ceiling Mountable, Automatic Spring Retracion Operation. With Matching Auto-Eject Receptacle and "Auto-Safe" Controller To Shut-Off Reel Power When Retracted. 45 Foot, #12 AWG CU 3 Conductor OSHA Orange Power Cord. Each Reel On A Dedicated Circuit. Verify Exact Mounting Location To Coordinate With Vechicle Type. Support from building structure (not from ceilig or walls). Kussmaul "Auto-Reel (091-220-20-120-AS) or equal by Appelton Electric, Crouse-Hinds, Reel-Craft.	
06	-	2-Door LV-Wired 2-Tone Chime Kit: Complete Chime Kit With 2-WP Door Illuminated-Push-Buttons, Transformer & Chime. Verify Color. Wire Per Manuf. Edwards Signal C212x-2L Or NuTone LA11BG	
- -		- - -

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WIRING & EQUIPMENT

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	Solid Straight- Exposed Wiring
	Dashed- In-Slab Or U.G. Wiring
	Arrowhead- Home Run As Shwon
	Surf. Mtd Multi-Channel Raceway
	Grounding Symbol / Grnd Rod
	Plywood Bkbd, Size As Noted
	Motor, F- Fract. HP, #- HP
	Manual Motor Rated Switch, 30A, 3P, 600V, NEMA-3R Ends
	Magnetic Motor Combo Starter / Switch, Ratings As Noted Or Scheduled
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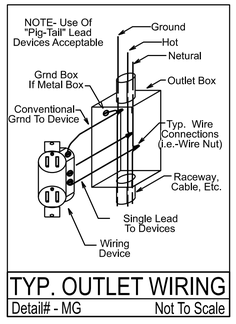
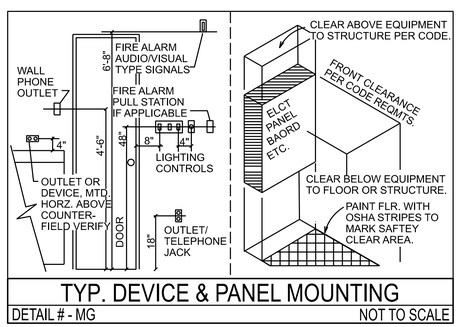


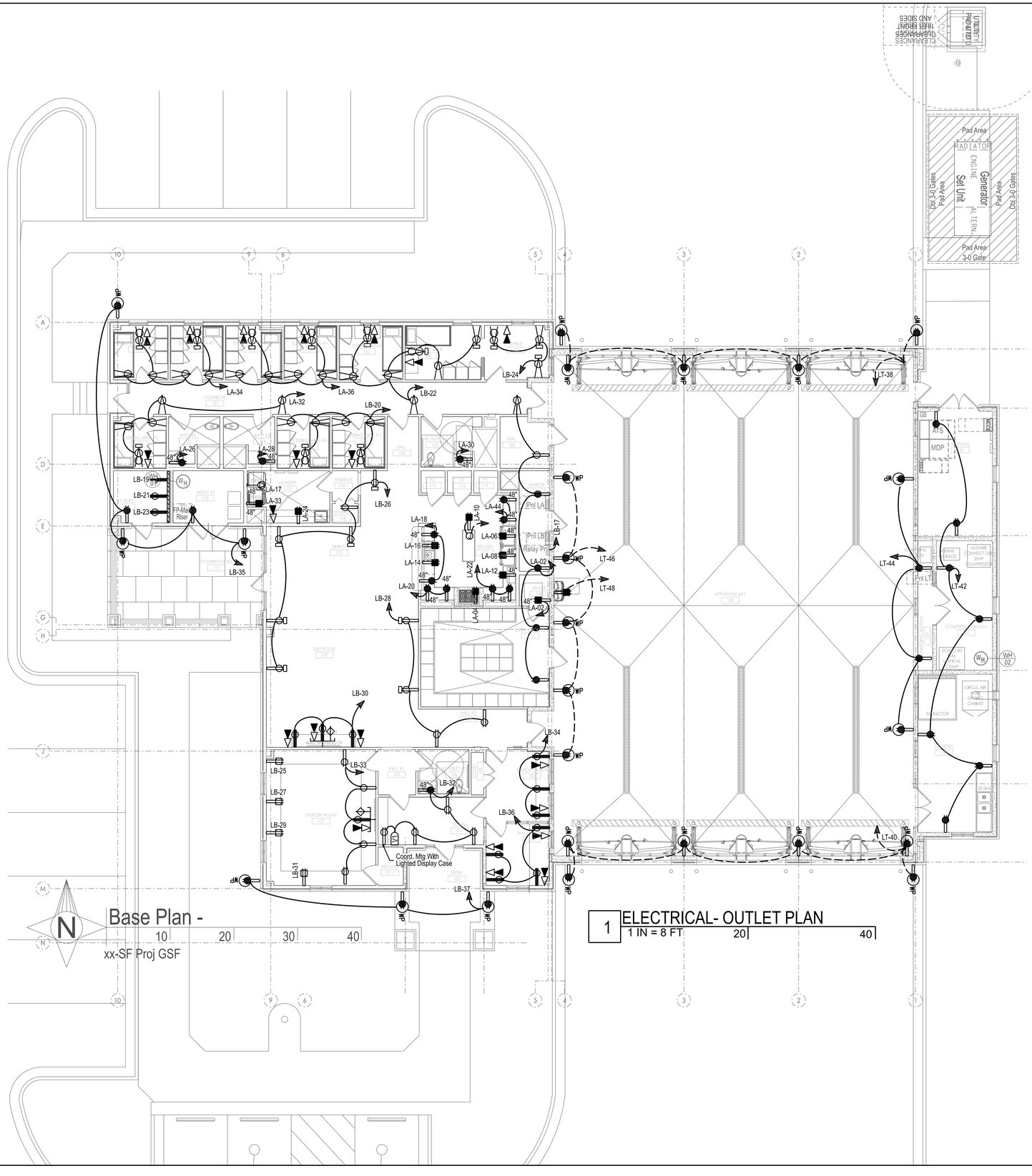
TYP. OUTLET WIRING

Detail# - MG — Not To Scale



TYP. DEVICE & PANEL MOUNTING

DETAIL # - MG — NOT TO SCALE



1 ELECTRICAL- OUTLET PLAN

1 IN = 8 FT — 20 — 40

architecture
interiors
town planning

KAOD

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GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 13252 ROBERT M MADDOX 2018 09.30

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FAYETTE CO. FIRE STATION # 4

278 McElroy Road
Fayetteville, GA. 30214

Prepared for

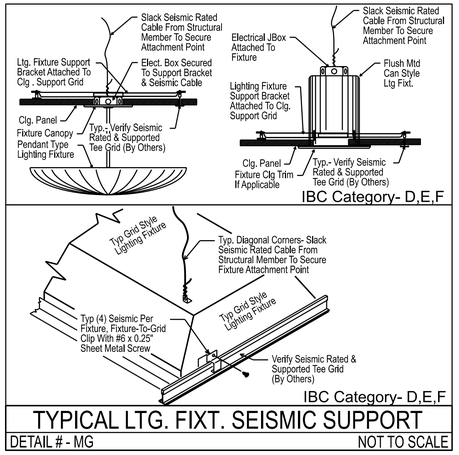
FAYETTE CO. FIRE DEPT.

COMMISSION / JOB NO:
1748.00

SHEET TITLE:
ELECTRICAL OUTLET PLAN

SHEET NO:
E-12

RELEASED FOR PERMIT OR CONSTRUCTION



TYPICAL LTG. FIXT. SEISMIC SUPPORT

DETAIL # - MG NOT TO SCALE

FLOODLIGHT- TENON MTG DETAIL

NOT TO SCALE

FLAGPOLE LIGHTING DETAIL

DETAIL # - MG NOT TO SCALE

Section 1: Project Information

Energy Code: **2009 IECC**
Project Title: Fayette Co Fire Sta-04, McElroy Rd
Project Type: New Construction

Construction Site: McElroy Road Fayetteville, Georgia
Owner/Agent:
Designer/Contractor:

Section 2: Interior Lighting and Power Calculation

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B x C)
Living Area (Police/Fire Station)	4757	1	4757
Truck Bay (Police/Fire Station)	5440	1	5440
		Total Allowed Watts =	10197

Section 3: Interior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Living Area (Police/Fire Station, 4757 sq.ft.)				
LED: A: Other: Exemption:Sleeping Unit Lighting	1	18	32	Exempt
LED: B: Other: Exemption:Sleeping Unit Lighting	1	26	3	Exempt
LED: C: Other:	1	21	29	609
LED: D: Other:	1	6	29	174
LED: E: Other:	1	4	16	64
LED: F: Other:	1	7	23	161
LED: G: Other:	1	4	20	80
LED: H: Other:	1	11	11	121
LED: I: Other:	1	35	55	1925
LED: J: Cove Lt By Archt: Other:	1	1	880	880
LED: K: Other:	1	17	42	714
LED: L: Other:	1	16	185	2960
LED: M: Other:	1	6	185	1110
LED: N: Other:	1	2	60	120
Truck Bay (Police/Fire Station, 5440 sq.ft.)				
			Total Proposed Watts =	8918

Section 4: Requirements Checklist

Interior Lighting PASSES: Design 13% better than code.

Lighting Wattage:

❑ 1. Total proposed watts must be less than or equal to total allowed watts.

Allowed Watts	Proposed Watts	Complies
10197	8918	YES

Controls, Switching, and Wiring:

❑ 2. Daylight zones under skylights more than 15 feet from the perimeter have lighting controls separate from daylight zones adjacent to vertical fenestration.

❑ 3. Daylight zones have individual lighting controls independent from that of the general area lighting.

Exceptions:

❑ Contiguous daylight zones spanning no more than two orientations are allowed to be controlled by a single controlling device.

❑ Daylight spaces enclosed by walls or ceiling height partitions and containing two or fewer light fixtures are not required to have a separate switch for general area lighting.

❑ 4. Independent controls for each space (switch/occupancy sensor).

Exceptions:

❑ Areas designated as security or emergency areas that must be continuously illuminated.

❑ Lighting in stairways or corridors that are elements of the means of egress.

❑ 5. Master switch at entry to hotel/motel guest room.

❑ 6. Individual dwelling units separately metered.

❑ 7. Medical task lighting or art/history display lighting claimed to be exempt from compliance has a control device independent of the control of the nonexempt lighting.

❑ 8. Each space required to have a manual control also allows for reducing the connected lighting load by at least 50 percent by either controlling all luminaires, dual switching of alternate rows of luminaires, alternate luminaires, or alternate lamps, switching the middle lamp luminaires independently of other lamps, or switching each luminaire or each lamp.

Exceptions:

❑ Only one luminaire in space.

❑ An occupant-sensing device controls the area.

❑ The area is a corridor, storeroom, restroom, public lobby or sleeping unit.

❑ Areas that use less than 0.6 Watts/sq.ft.

❑ 9. Automatic lighting shutoff control in buildings larger than 5,000 sq.ft.

Exceptions:

❑ Sleeping units, patient care areas; and spaces where automatic shutoff would endanger safety or security.

❑ 10. Photocell/astronomical time switch on exterior lights.

Exceptions:

❑ Lighting intended for 24 hour use.

❑ 11. Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).

Exceptions:

❑ Electronic high-frequency ballasts; Luminaires on emergency circuits or with no available pair.

Section 5: Compliance Statement

Compliance Statement: The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2009 IECC requirements in COM*check-Web* and to comply with the mandatory requirements in the Requirements Checklist.

Robert M. Maddox, PE
Name - Title | Signature | Date

Project Notes:
New Fire Station

UNDER-CABINET LTG DETAIL

DETAIL # - MG NOT TO SCALE

CLG. INSULATION AT LTG DETAIL

Detail # : Not To Scale

Generated by COM*check-Web* Software

Exterior Lighting Compliance Certificate

Section 1: Project Information

Energy Code: **2009 IECC**
Project Title: Fayette Co Fire Sta-04, McElroy Rd
Project Type: New Construction
Exterior Lighting Zone: 2 (Residential mixed use area)

Construction Site: McElroy Road Fayetteville, Georgia
Owner/Agent:
Designer/Contractor:

Section 2: Exterior Lighting Area/Surface Power Calculation

A Exterior Area/Surface	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B x C)	F Proposed Watts
Entry canopy	200 ft2	0.25	Yes	50	164
Flag Pole (Special feature area)	100 ft2	0.14	Yes	14	165
Rear drive (Driveway)	2275 ft2	0.06	Yes	136	206
Front drive (Driveway)	2275 ft2	0.06	Yes	136	264
Large Porch (Entry canopy)	365 ft2	0.25	Yes	91	162
Other door (not main entry)	15 ft of door width	20	Yes	300	84
Main entry	3 ft of door width	20	Yes	60	84
			Total Tradable Watts* =	788	1129
			Total Allowed Watts =	788	
			Total Allowed Supplemental Watts** =	600	

* Wattage tradeoffs are only allowed between tradable areas/surfaces.
** A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Section 3: Exterior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Entry canopy (200 ft2): Tradable Wattage				
LED: WA: Other:	1	2	28	56
LED: WF: Other:	1	4	27	108
Main entry (3 ft of door width): Tradable Wattage				
LED: WA: Other:	1	3	28	84
Other door (not main entry) (15 ft of door width): Tradable Wattage				
LED: WA: Other:	1	3	28	84
Large Porch (Entry canopy, 365 ft2): Tradable Wattage				
LED: WF: Other:	1	6	27	162
Front drive (Driveway, 2275 ft2): Tradable Wattage				
LED: WA: Other:	1	3	28	84
LED: WB: Other:	1	3	20	60
LED: WC: Other:	1	4	30	120
Rear drive (Driveway, 2275 ft2): Tradable Wattage				
LED: WA: Other:	1	2	28	56
LED: WB: Other:	1	3	20	60
LED: WC: Other:	1	3	30	90
Flag Pole (Special feature area, 100 ft2): Tradable Wattage				

Project Title: Fayette Co Fire Sta-04, McElroy Rd
Data filename:
Report date: 10/03/18
Page 3 of 4

LED: WE: Other:	1	3	55	165
			Total Tradable Proposed Watts =	1129

Section 4: Requirements Checklist

Lighting Wattage:

❑ 1. Within each non-tradable area/surface, total proposed watts must be less than or equal to total allowed watts. Across all tradable areas/surfaces, total proposed watts must be less than or equal to total allowed watts.
Compliance: Passes using supplemental allowance watts.

Controls, Switching, and Wiring:

❑ 2. All exemption claims are associated with fixtures that have a control device independent of the control of the nonexempt lighting.

❑ 3. Lighting not designated for dusk-to-dawn operation is controlled by either a a photosensor (with time switch), or an astronomical time switch.

❑ 4. Lighting designated for dusk-to-dawn operation is controlled by an astronomical time switch or photosensor.

❑ 5. All time switches are capable of retaining programming and the time setting during loss of power for a period of at least 10 hours.

Exterior Lighting Efficacy:

❑ 6. All exterior building grounds luminaires that operate at greater than 100W have minimum efficacy of 60 lumen/watt.

Exceptions:

❑ Lighting that has been claimed as exempt and is identified as such in Section 3 table above.

❑ Lighting that is specifically designated as required by a health or life safety statue, ordinance, or regulation.

❑ Emergency lighting that is automatically off during normal building operation.

❑ Lighting that is controlled by motion sensor.

Section 5: 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 lighting system has been designed to meet the 2009 IECC requirements in COM*check-Web* and to comply with the mandatory requirements in the Requirements Checklist.

LIGHTING FIXTURE SCHEDULE

Proj: **Fayette Co Fire Station 04** | 18.10.05 Date
Loc: **Fayetteville, GA. 30241** | KA Oldham Design, Inc. | **Const** Status

Fixt ID	General Lighting Fixture Descriptions	Ttl Mean Lumens	Lamp Qty & Type	Ballast-Driver Type	Power V	Power VA	Mount. Notes	Item Notes	Manufacturer Series / Model	Revs #
A-	Center Lens Fixt., 2x2- LED Lamp, Curved Prismatic Acrylic Lenses, 5-Yr.Warranty, Dimming To 1%.	3616-L; 60-kHrs	LED, 80-CRI, 35k-CCT	0-10V 1%-Dimm; 10%-THD; 0.95PF	UNV 120-277	32	FIC	-	Columbia: LCAT-22-80CRI-35k-HLHE- G-Curve-NoAir-ED1-Unv	-
B	LED Step Light, Die-Cast Housing, Die-Cast Aluminum Cover, Frosty Glass Diffuser, Vandal-Resistant Hardware, Mounts On Standard J-Box. Wet Location Labeled. Cover Finish> Silver; Diffuser Color > RED	160	LED, 80-CRI, 35k-CCT	LED Driver & Power Supply Per Manuf	UNV-120/ 277	3	Wall Mtd 18" AFF UNO	-	Lumux Ltg. SL100 Series: SL100-LED-RedLED, Silver Finish	-
C	Center Lens Fixt., 2x2- LED Lamp, Curved Prismatic Acrylic Lenses, 5-Yr.Warranty	3200-L; 60-kHrs	LED, 80-CRI, 35k-CCT	Non-Dimm; 10%-THD; 0.95PF	UNV 120-277	29	FIC	-	Columbia: LCAT-22-80CRI-35k-ML- G-Curve-NoAir-E-Unv	-
D	Center Lens Fixt., 2x2- LED Lamp, Curved Prismatic Acrylic Lenses, 5-Yr Warranty (Kitchen Area)	3200-L; 60-kHrs	LED, 80-CRI, 35k-CCT	Non-Dimm; 10%-THD; 0.95PF	UNV 120-277	29	FIC	-	Columbia: LCAT-22-80CRI-35k-ML- G-Curve-NoAir-E-Unv	-
E	LED Task-Light, 1.5 Inch Deep, 32-Inch Long; Alum. Extrusion + Frosted Lens, Provide All Mtg. Hdwr, Intergral -Driver, 5-Yr.Warr., In-Line Switch, Std. Finish Per Archt / Owner. (xx= Installed Length In Ft.)	894-L; 50-kHrs	LED, 80-CRI, 30k-CCT	LED Driver, 20% THD, 0.9-PF	120V	16	Under Cabinet Face Wall-Verify Ft	-	Elite EUD-LED Series: EUD-LED- 32-Inch-120V-xx Finish	*
F	24L Wall Mtd Wth Occ-Sensor, LED, White Acrylic Diffuser, Steel Housing; 5-Yr.Warranty; End-Caps & Motion-Sensor	2,000-L; 50-kHrs	LED, 90-CRI, 35k-CCT	LED Driver, 20% THD, 0.9-PF	UNV 120-277	23	WM Over Mirror Or Door		Elite-Grade OW1B-LED Series: 02Ft-OW1B-LED-2000Lu-DIM10-Mvolt-35kCCT-85CRI-MS-FM105	-
G	32"L, 2.75"W, 2.5"D, LED, Vanity Wall. Sconce Fixture, ADA Compialnt, White Acrylic Diffuse & Satin Nickel Hardware, Dimmable To 1%	1,751-L; 60-kHrs	LED, 90-CRI, 35k-CCT	0-10V 1%-Dimm; 10%-THD; 0.95PF	120	20	Horz Wall Htg Per Archt		Oxygen Apollo Series: 3-525-24 Dimm	
H	4 In. Wet-Location IC_Housing Shower Lite, LED, Smooth Frost Lens & White Trim Ring, 5-Yr Warranty.	600-L; 50-kHrs	LED, 90-CRI, 35k-CCT	Fixed; 10%-THD; 0.95-PF	MV 120V 277V	11	FIC	-	Elite-MaxiLume: H-LED2-41C + LED2-1437-600L-MD-35K-90C-CL-WH	
I	06 In LED Dnlt, 45D Cut-Off, Diff-Lens, Satin-Haze Alzak Reflector & Trim Ring, Damp/Wet Location, 5-Yr Warranty, Wide Distb; Dimmable To 1%	4,000-L; 102-kHrs	LED, 90-CRI, 35k-CCT	0-10V 1%-Dimm; 10%-THD; 0.95PF	MV 120V 277V	55	FIC		Elite-MaxiLume: HH6-LED-4000Lu-Dim1%-MVolt-WDdistb-35K-90+CRI-6501-CL-WH	-
J	Architectural Cove & Light System FBO-IBC, Furnished Complete With Lamps & All Components & Hardware. Coordinate With Owner, Electrical To Hook-Up Per Manuf.	1,450 Lumn / Ft (Verify)	By Manuf With Fixture; 85-CRI; 35k-CCT	Fixed / 0-10V Dimm To 01%; 10%-THD; 0.95PF	UNV 120-277	13.5 Watts / Ft (Verify)	Per Archt / Interiors (65 Ft-Verify)		Furnished-By-Others & Installed-By-Contractor (FBO-IBC)(Basis: Vode Zip-Wave-707)	-
K	LED 4 Ft, Enclosed & Gasketed Fiberglass, Non-Porus Gasketing, Wet-Location, High-Impact Frosted Acrylic Lens, SS Latches & Mounting Hardware, 5-Yr Warr., Occ. Sensor	4,688-L; 60-kHrs	LED, 85-CRI, 35k-CCT	Fixed; 10%-THD; 0.95PF	UNV 120-277	42	SM-PH	-	Columbia Series LXEM 4 Ft, 35K, ML-Lumen, RFA, ED, UV, SSL, TP + Optons As Needed +Occ Sensor	-
L	LED 8 Ft, Enclosed & Gasketed Fiberglass, Non-Porus Gasketing, Wet-Location, IP67, High-Impact Frosted Acrylic Lens, SS Latches & Mounting Hardware; 5-Yr.Warranty	20,223 Lum; 60-kHrs	LED, 85-CRI, 35k-CCT	0-10V 1%-Dimm; 10%-THD; 0.95PF	UNV 120-277	183	SM-PH	-	Columbia Series LXEM 8 Ft, 35K, XL-Lumen, RFA, ED1, UV, SSL, TP + Optons As Needed	-
M	LED 8 Ft, Enclosed & Gasketed Fiberglass, Non-Porus Gasketing, Wet-Location, IP67, High-Impact Frosted Acrylic Lens, SS Latches & Mounting Hardware, 5-Yr.Warranty; RED LIGHT / DIFFUSER	20,223 Lum; 60-kHrs	LED, 85-CRI, 35k-CCT	0-10V 1%-Dimm; 10%-THD; 0.95PF	UNV 120-277	183	SM-PH	-	Columbia Series LXEM 8 Ft, 35K, XL-Lumen, RFA, ED1, UV, SSL, TP + Optons As Needed; RED LIGHT / DIFFUSER	-
N	Indoor Paddle Fan, Light & Remote Control + Wall Holster: 48 Inch Dia, 3-Blade, Reversable, 3-Speed, LED-Light, Provide All Related Components: Finish & Stem(s)-Mtg. Heigth Per Architect; 5-Yr.Warranty	1400-L, 18-W	LED; 30k-CCT, 90+CRI	Per Manuf, 10%-THD; 0.95PF	120V	60	CM		Fanmation "Pylon" Series: LP8277Lxx Or Equal By Casablancal or Modern Fan Co	*

Fixt ID	Wet-Location Outdoor Lighting Fixture Descriptions	Ttl Mean Lumens	Lamp Qty & Type	Ballast-Driver Type	Power V	Power VA	Mount. Notes	Item Notes	Manufacturer Series / Model	Revs #
WA	Small UL-Wet-Location, LED Architectural Geo-Shaped Wall-Pak; Vandal-Resistant Die-Cast Aluminum, Full-Cut-Off, Dark-Sky; Bronze Finish. *Verify Final Mfg, Color-Finish With Architet-Owner Prior To Ordering.*	2900-L; 345-kHrs.	LED, 85-CRI, 40k-CCT	Fixed; 10%-THD; 0.95PF	UV 120-277	28	WM As High Possible, Per Archt	-	Hubbell Geo Series: OSP1 - 12LED-30-Watt-4k-3-Distb-UNV-DB-Finish	-
WB	RLM Style Shade On Pendant-Pipe-Stem; Wet-Location Listed; MC-Style 18-Dia RLM Shade + Red Tempered Globe + Matching Stem & Remote LED Driver. Color Per Archt-Owner	Per Manuf; 60-kHrs	1x20 Watt LED, 35k-CCT, 85+CRI	Fixed; 10%-THD; 0.95PF	120V Only	20	PH Per Archt	-	BaseLite RLM Series: MC18+ WM31+ RE4+ GU+Remote-Driver	
WC	22Hx08Wx05D, UL-Wet-Location, LED, Wall Mt. Columinar Fixture, ADA Compliant, Cast-Al Base; Matte-White Acrylic Diffuser & Std / Custom Color Finish Per Architect-Owner)	1,347-L; 60-kHr	LED, 85-CRI, 35k-CCT	Fixed / 0-10V 1%-Dimm; 10%-THD; 0.95PF, TVSS	UNV-120-277	26	WM Vert @ Htg Per Archt-Own		Oxygen "LEDA" Series: 3-713-2xx	
WD	Damp-Location Paddle Fan & Remote Control + Wall Holster: 54 Inch Dia, 4-Blade, Reversable, 3-Speed; Provide All Related Components: Finish & Stem(s)-Mtg. Heigth Per Architect,	NA	NA	NA	120V	60	CM		Fanmation "ASCENSION" Series: FP6717xx Or Equal By Casablancal or Modern Fan Co	*
WE	Flag & Pole Small Flood Lt, LED, Wet Location Labeled, Tempered Glass Lens, Glare-Sheild, Yoke-Mount, Dark-Bronze Finish, Surge-Prot., 5-Yr.Warr, Beam-Spread NEMA 3x3	4,957-L; 696-kHrs	LED, 70-CRI, 50k-CCT	LED Driver & Power Supply Per Manuf	UNV 120V 277V	52	Concrete Base, Aim		Hubbell Series FML-LED: 52, 5k, 3x3, UV, K, DB, SP	-
WF	06 In LED Dnlt, 45D Cut-Off, Diff-Lens, Satin-Haze Alzak Reflector & Trim Ring, Damp/Wet Location, 5-Yr Warranty, Wide Distb	2,000-L; 102-kHrs	LED, 90-CRI, 35k-CCT	Fixed; 10%-THD; 0.95PF	MV 120V 277V	27	FIC		Elite-MaxiLume: HH6-LED-2000Lu-NonDim-MVolt-WDdistb-35K-90+CRI-6501-CL-WH	-

Fixt ID	Exit Signs & Emergency Ltg. Units Fixture Descriptions	1.0 FC Avg	Unit Heads Qty & Type	Unit Battery	Power V	Power VA	Mount. Notes	Item Notes	Manufacturer Series / Model	Revs #
X1	White Thermoplastic Emerg. Ltg. Unit 2-LED MR16 Heads, Damp-Location, 3-Yr.Full-Warr; UL924+NFPA101 Self-Diagnostic-Testing, +Weather-Proof(WP)	07-MH; 6x15Ft	(2) 70-Lumen, 3.6 W-LED MR16 Heads; 50-kHrs	3.6-V Nickle-Metal-Hydride	UNV-120, 277	7.5	Clg or WM @ 7'-0" High	1	LightAlarms: LCA-2LED +WP	-
X2	White Thermoplastic Emerg. Ltg. Unit; LED NiCad Battery, 5-Yr.Full-Warr; UL924+NFPA101 Self-Diagnostic-Testing, Vandal-Resistant.	15-MH; 6x80Ft	(2) 540-Lumen, 6.0 W-LED MR16 Heads	12 VDC Sealed Lead-Calcium	UNV-120, 277	7.5	Clg or WM @ 15'-0" High	1	LightAlarms Grande Series: 2Hd-GR12N4-(2) LD10-WB-ID-T3-DL +CM/PM	-
X0	Dual-Function LED Exit & Batt.Egress Wall-Light, Die-Cast Alumn. Vandal-Resistant, Wet Location, 5-Yr.Full-Warr; Self-Contained Norm-AC / Emerg. Batt. Unit, Photo-Cell; Heater & Self-Test-Monitor-Alarm, Forward Throw; Std. Color Per Archt-Owner	15-MH; 6x40Ft	(2) 640-Lumen, 6.0 W-LED Heads; 50-kHrs	Nick-Metal Hydride	UNV-120V-277V	3 / 15(Hr)	WM Abv Door	1	LightAlarms Camray LED: CAM-ACSD-Color--CS-FT-HL-PC	-
XU	Combo LED Exit Sign, 1/2 Face, 2-Adjust LED Heads, Univ Mtg, Batt-Back-Up, Red Ltr, Arrows As Needed, Self-Test-Alarm, 5-Yr.Full Warr; White; (17W,13H,04D)	07-MH; 6x89Ft	(2) 6.0 W-LED MR16 Heads	12 VDC- Lead-Calcium	UNV-120V-277V	5	UM	1	LightAlarms GRANDE Series: GR-1224M-R-U-W-2HD-LD10-ID	-

SPECIFIC ITEM NOTES

1-	Connect Emerg Battery To Unswitched Source	2-	Refer To Interior Lighting Plans & Schedules For Details.
3-		4-	

Misc Abbrevations		Lamp / Ballast / Driver Terms		Mounting Terms	
FBO-	Furnished By Owner Complete U.N.O.	CRI	Color Rending Index (Of Lamp)	BFC-	Below Finished Ceiling
FMC-	Fixt. Material Cost With Lamps & Hardware Complete	xx K	Kelvin (Lamp Color)	CB-	Concrete Base- See Details
IBC -	Installed Complete By Contractor, U.N.O.	Lum	Lumens (Lamp Light Output)	FIC-	Flush In Ceiling
		mA	Milli-Amp (LED Driver Rating)	FIG-	Flush In Grade
		PS	Programmed Start		
PBC-	Provided By Contractor	STA	Self-Test & Alarm	PH-	Pend.Hung,Htg As Ntd; Per Archt.
SBO-	Selected By Owner	RS	Rapid Start	SM-	Surface Mtd On Ceiling Or Structure
		THD	Total Harmonic Distrotion Max.	WM-	Wall Mtd- Htg As Noted; Per Archt.

ALTERNATES / PRIOR APPROVAL REQUEST

AA	Project Base Quote Shall Be Based On The Lighting As Scheduled & Specified.
AB	Lighting Products Of Other Manufacturers May Be Submitted As Add Or Deduct Alternates, Complete With Labeled Fixtures & Lampe Data, Cut-Sheets & Any Variations From The Specified Fixtures Must Be Denoted.

SUBMITTALS REQUIRED

SA	A Complete Submittal Is Required, Including Cover-Page, Bill-Of-Materials, & Individual Product Data. **The Submittal Shall Bear The "Compliance Statement" & Reviewed Stamp" Of The Supplier, Sub-Contractor & General Contractor. Failure To Do So Is Grounds For Automatic Rejection Of Submittals.**
SB	Each Items Cut-Sheet Shall be Labeled With Specific Choices Marked, Including Lamp Data, Indicating Full Compliance With The Criteria-Specification Requirements.

MADDOX GROUP INC. End Of Lighting Fixture Schedule - See Lighting Criteria 17-151

architecture
interiors
town planning

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GEORGIA REGISTERED PROFESSIONAL ENGINEER ROBERT M MADDOX No 13252 2018 09-30

THE MADDOX GROUP
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DATE	ACTION	COMMENTS
18.09.27	Issued	Price, Permit & Construction

FAYETTE CO. FIRE STATION # 4

278 McElroy Road
Fayetteville, GA. 30214

Prepared for

FAYETTE CO. FIRE DEPT.

COMMISSION / JOB NO:
1748.00

SHEET TITLE:
LIGHTING PLAN

SHEET NO:
E-20

RELEASED FOR PERMIT OR CONSTRUCTION

LIGHTING FIXTURE SYMBOLS

SYMBOLS	MTG/UNO	DESCRIPTIONS
▭ ○	SEE SCHD.	LIGHTING FIXTURES, GENERALLY CEILING MOUNTED SHAPE GENERALLY INDICATES SHAPE OF FIXTURE
├─┤	SEE SCHD.	FLUORESCENT STRIP TYPE FIXTURE
─○ D	SEE SCHD.	WALL OR BRACKET MOUNTED TYPE FIXTURE
ΔΔΔ	SEE SCHD.	LIGHTING TRACK & FIXTURES
⊗ ─⊗	SEE SCHD.	EXIT SIGNAGE FIXTURE
⊗ ─⊗ (arrows)	SEE SCHD.	EXIT SIGNAGE WITH DIRECTIONAL ARROWS
⊗ (flood)	SEE SCHD.	EXIT SIGNAGE WITH EMERGENCY FLOOD LIGHTS
⊠	SEE SCHD.	BATTERY TYPE EGRESS FIXTURES
XXX	SEE SCHD.	LIGHTING FIXTURE TYPE ID / TAG- SEE LTG FIXTURE SCHEDULE

LIGHTING GENERAL NOTES

NOTES & COMMNETS

FIXTURE TYPES ARE INDICATED BY UPPER CASE CHARACTERS
SWITCHING GROUPS SHOWN BY LOWER CASE LTRS. WHERE APPLICABLE.
CIRCUIT GROUPING SHOWN BY NUMBERS, WHERE APPLICABLE.
REFER TO REFLECTED CEILING PLANS FOR EXACT FIXTURE LOCATIONS.
WP INDICATES WEATHER PROOF SWITCH COVER.

LIGHTING CONTROLS - MANUAL, LINE-VOLTAGE, HARD-WIRED

SYMBOLS	MTG UNO	GENERIC DESCRIPTIONS	RATINGS	MANUF. & SERIES LEGRAND/P&S- UNO
MANUAL DEVICES - LINE VOLTAGE TYPE				
Tx	48" AFF	(T)oggle Switch, 1= SPST; 2= 2PST; 3= 3-Way; 4= 4-Way	20A; Grnd 120V & 277V	PT-262-XX
Kx	48" AFF	(K)ey Operated Switch, 1= SPST; 2= 2PST; 3= 3-Way; 4= 4-Way	20A; Grnd 120V & 277V	PT-20AC-XX
Ix	48" AFF	(I)lluminated When On Switch (UNO), 1= SPST; 2= 2PST; 3= 3-Way; 4= 4-Way	20A; Grnd 120V & 277V	PT-262-XX
Ma	48" AFF	(M)omentary Contact Switch, 1-Pole 3-Position (a) Subscript Indicates Switching Group, Etc.	20A; Grnd 120V & 277V	TM811-DTMO-XX
DL	48" AFF	(D)immer Line Volt, (1/3) Way,Full-Off, Incand., CFL & LED; NEMA-SSL7, Forward Phs Dim.	120V, G 150W-CFL, 600W-I	Lutron Maestro C-L Dimmers
D0	48" AFF	(D)immer, 0-10V Analog Control; 1%-100%; On-Off Switch, Level Slider, Pwr-Fail Memory	0-10V Analog Control Wires	Lutron Diva Series
WS	48" AFF	(W)eather-(P) Toggle Switch, 1-Pole & WP Cover	20A,120V,277V,G	PT-262-XX & CA1GL
SM	48" AFF	Switch Motor Rated, NEMA 3R Enclosure	3 Pole, 30A, 600V	7803 Switch & 7833 Encls

COMMENTS & NOTES

1- Devices To Be UL20, Listed & Labeled Where Applicable.
2- Devices To Be NEMA WD-1 & WD-6 Compliant Where Applicable.
3- Devices To Be NFTA (Buy American) Where Avialable.
4- Devices To Be Legrand / P&S, PlugTail, Spec. Grade Devices, UNO.
5- Device Face To Decor Style Unless Not Available In Decor Style.
6- Provide Smooth Finish Matching P&S Trade-Master Grade Cover Plates.
7- Color As Selected By Owner / Tenant Or Architect.
8- Products Of Other Manufactures, Equivalent In Apperance, Features, Performance, Rating & Size, Are Acceptable.
09- Field Verify Exact Final Location Prior To Rough-Ins Per Archt., Owner/ User.
10- Control / Grouping Indicated By Lower Case Letters (i.e.-a,b,c)
11- Multiple Adjacent Devices Shall Be Mounted In Multi-Gang Box With Multi-Gang Cover

LIGHTING CONTROLS - SENSOR, LINE-VOLTAGE, HARD-WIRED

SYMBOLS	MTG UNO	GENERIC DESCRIPTIONS	RATINGS	MANUF. & SERIES HUBBELL - UNO
V1 V2	Wall Mt. 48" AFF	(V)acancy Sensor, (1/2) Ckt, PIR, Wall Mtd. Auto or Man On, Adjustable Time OFF	800W-F/I @ 120V 1200W-F @ 277V	(V1-1P) LHIRS1-xx-M (V2-2P) LHIRS2G-xx-M
VD	Wall Mt. 48" AFF	(V)acancy Sensor - (D)immer, 1-Ckt, 0-10V Dimm, PIR, Auto or Man On, Self-Adjusting Time OFF	800W-CFL- @ 120V 1200W-CFL- @ 277V	LightHawk2- LHD-IRS-3-N
U1 U2	Wall Mt. 48" AFF	(U)ltra-Sonic/PIR Dual Sensor, (1/2) Ckt, Self-Adaptive, Off Warning, Man/ Auto Select 20x15 Minor & 35x30 Major Motion Range	800W-I @ 120V 800W-F @ 120V 1200W-F @ 277V	(U1-1P) LHMTS1G-xx (U2-2P) LHMTDS2G-xx
P1 P2	Clg Mtd Per Manuf	(P)IR Occupancy Sensor, (1/2/x) Range, Power Pack, RFI & EMI Resistant, Adjust. Delay & Sensitivity P1- 500 Sq Ft, P2- 1200 Sq FT Coverage Range	24 VDC Sensor 20A, 120/ 277V Power Pack	(P1>500Sf) OMNI-IR (P2>1200Sf) OMNI-IRL
U1 U2 U3	Clg Mtd Per Manuf	(U)ltra-Sonic Sensor, (1/2/x) Range, Power Pack, RFI & EMI Resistant, Adjust. Delay & Sensitivity U1- 500 SF, U2-1100 SF, U3- 2200 SF Range	24 VDC Sensor 20A, 120/ 277V Power Pack	(U1>500Sf) OMNI-US500 (U2>1100Sf) OMNI-US1000 (U3>2200Sf) OMNI-US2000
DL	Clg Mtd Per Manuf	(D)ay(L)ight Switching (Non-Dim) Sensor, Closed-Loop Light Sensing,Matching Power Pack, RFI & EMI Resistant, Adjust. Delay & Sensitivity	24 VDC Sensor 20A, 120/ 277V Power Pack	NX-DS Sensor & NX-RC1RUNV Power-Pack
C#	Clg Mtd Per Manuf	(C)ombo (D)ual-Tech, US/PIR Sensor, Power Pack, RFI & EMI Resistant, Adjust. Delay & Sensitivity 360D-Sensing, 1000 & 2000 SF Range	24 VDC Sensor 20A, 120/ 277V Power Pack	(C1>1000Sf) OMNI-DT1000 (C2>2000Sf) OMNI-DT2000

COMMENTS & NOTES

01- Devices To Be UL20, Listed & Labeled Where Applicable.
02- Devices To Be NEMA WD-1 & WD-6 Compliant Where Applicable.
03- Devices To Be NFTA (Buy American) Where Avialable.
04- Devices To Be Hubbell, Spec. Grade Devices, UNO.
05- Color, If Option, Selected By Owner / Tenant Or Architect.
06- Products Of Other Manufactures, Equivalent In Apperance, Features, Performance, Rating & Size, Are Acceptable.
07- Field Verify Exact Final Location Prior To Rough-Ins Per Archt., Owner/ User.
08- Control / Grouping Indicated By Lower Case Letters (i.e.-a,b,c)
09- Multiple Adjacent Devices Shall Be Mounted In Multi-Gang Box With Multi-Gang Cover

LIGHTING CONTROLS - WIRELESS TYPE

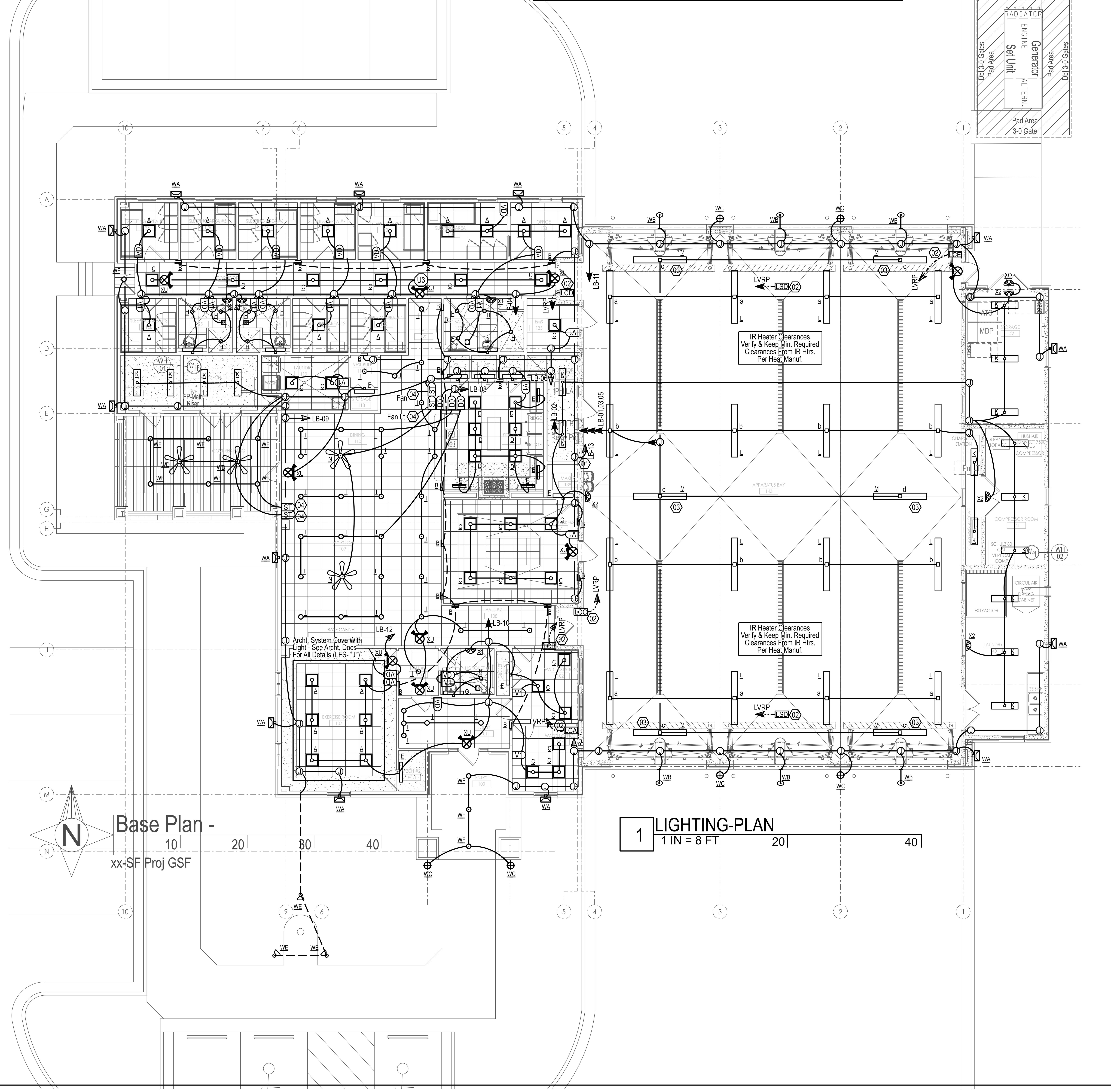
SYMBOLS	MTG UNO	GENERIC DESCRIPTIONS	RATINGS	MANUF. & SERIES LUTRON - UNO
WIRELESS DEVICES				
W#	Wall Mtd 48" AFF UNO	(W)ireless Push-Button Remote (#= Qty Buttons), RF-Based, WireLess Comm, EMI Resistant, UL, FCC Approved, Color (WH,BL,IV,LA,WG) Per Archt-Owner.	WireLess 10 Year Batt Life	PICO PJ2 Series (01-03 Button - UNO)
WC	Clg Or Wall Mtd High As Possbile	(W)ireless (C)orner Occupancy Sensor, RF-Based WireLess Comm, EMI Resistant, UL, FCC Approved, Ft. Range> 30 Ft Minor / 50 Ft Major Motion.	WireLess 10 Year Batt Life	LRF-2-O- 90 Deg Corner Mtd. Coverage
WH	Clg Or Wall Mtd High As Possbile	(W)ireless (H)all-Way Occupancy Sensor, RF-Based WireLess Comm, EMI Resistant, UL, FCC Approved, Ft. Range> 6Wx50L; 8Wx100L;10Wx150L	WireLess 10 Year Batt Life	LRF-2-O- Hall-Way Long Coverage
WO	Clg Or Wall Mtd High As Possbile	(W)ireless (O)pen Area Occupancy Sensor, RF-Based WireLess Comm, EMI Resistant, UL, FCC Approved, Ft. Range> 30Wx50LMinor; 50Wx60L Major	WireLess 10 Year Batt Life	LRF-2-O- 180 Deg Coverage
WD	Clg Mtd Place & Aim Per Manuf	(W)ireless (D)aylight Compensating Sensor, RF-Based, WireLess Comm, EMI Resistant, UL, FCC Approved, 0-150FC Range.	WireLess 10 Year Batt Life	LRFX-DCRB-WH (White)
WR	Plenum Mtd On JBox	(W)ireless (R)eceiver-Power Pack-Switching Relay, Zero-Crossing Switching, RF-Based WireLess Comm, EMI Resistant, Plenum-Rated, UL, FCC Approved.	120/277 V~ 50/60 Hz, 1.0 W 1P-16 Amp Rated	RMJ-16R-DV-B (RMJ-16RCC01-DV-B Where Noted- LV (24V-1.0A) Dry-Contact Load Control)
WS	Plenum Mtd On JBox	(W)ireles(S) Receiver-Power Pack-Dimming Module, Zero-Crossing Switching, RF-Based WireLess Comm, EMI Resistant, Plenum-Rated, UL, FCC Approved, 0-10V Compatable Dimming Ballast-Drivers Reqd.	120/277 V~ 50/60 Hz, 1.0 W; NEC Class I or II Ballast Ctrl. Wiring	RMJ-5T-DV-B (URMJ-5T-DV-B
WV	Plenum Mtd On JBox	(W)ireless(V) Receiver-Power Pack-Dimming Module, Zero-Crossing Switching, RF-Based WireLess Comm, EMI Resistant, Plenum-Rated, UL, FCC Approved, EcoSystem Dimming Digital Ballast-Drivers Reqd.	120/277 V~ 50/60 Hz, 1.0 W; NEC Class I or II Ballast Ctrl. Wiring	RMJ-ECO32-DV-B (URMJ-ECO32-DV-B

COMMENTS & NOTES

1- All Wireless Devices & Componet To Be Of Same Manufacturer.
2- This Design & Products Are Based On Lutron "Radio-Powr-Savr" System.
3- Color As Selected By Owner / Tenant Or Architect.
4- Products Of Other Manufactures, Equivalent In Apperance, Features, Performace, Ratings & Size May Be Submitted As Add / Deduct Alternates For Consideration (With Complete Supporting Documentation).
05- Locate & Install All Product In Accordance With Manufacturer's Documented Instructions.
06- Field Verify Exact Final Location Prior To Rough-Ins Per Archt., Owner/ User.
07- Control / Grouping Indicated By Lower Case Letters (i.e.-a,b,c)

LEGEND NOTES

18.10.05		Fayette Co Fire Station 04	
#	Rv	LEGEND NOTES - E21	CO
01	-	Relay Panel- See Electrical Plan, Riser & Schedules. Set-Up & Program Per Manufacturer & Owners Schedule	
02	-	Low Voltage Switch Group (As Labeled)- Extend MC Cable & # Wires Per LV Relay System Manuf.	
03	-	Fire Station Night Vision RedLight	
04	-	Timer Switch: 120V-1000W / 277V-1400W Rated, 12-Hour Digital Count-Down Timer (Off-2-4-8-12 Hour) Hubbell DT5012x Series or Equal.	-
17-151		End Of Legend Notes	



Base Plan -
10 20 30 40
xx-SF Proj GSF

1 LIGHTING-PLAN
1 IN = 8 FT 20 40

architecture
interiors
town planning

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GEORGIA REGISTERED No 13252 PROFESSIONAL ENGINEER ROBERT M MADDOX
2018 09.20

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DATE	ACTION	COMMENTS
18.09.27	Issued	Price, Permit & Construction

FAYETTE CO.
FIRE STATION
4

278 McElroy Road
Fayetteville, GA. 30214

Prepared for

FAYETTE CO.
FIRE DEPT.

COMMISSION / JOB NO:
1748.00

SHEET TITLE:
LIGHTING PLAN

SHEET NO:
E-21

RELEASED FOR PERMIT OR CONSTRUCTION

PLUMBING SPECIFICATIONS

SCOPE:

THE WORK UNDER THIS SECTION SHALL BE TO PROVIDE A COMPLETE PLUMBING SYSTEM. ALL ITEMS OF WORK, OF COST AND EXPENSE OF ANY NATURE WHATSOEVER BELONGING WITH OR NECESSARY TO THE COMPLETION OF WORK CALLED FOR IN THIS SPECIFICATION OR IN THE CONTRACT DOCUMENTS ARE HEREBY SPECIFIED TO BE INCLUDED IN THIS CONTRACT.

ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL PLUMBING CODE, AS WELL AS ANY LOCAL CODES AND ORDINANCES.

WARRANTY:

EQUIPMENT FURNISHED SHALL BE GUARANTEED FOR A MINIMUM PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE.

SUBMITTALS:

ALL MATERIALS AND EQUIPMENT WHICH THE CONTRACTOR PROPOSES TO FURNISH SHALL BE SUBMITTED FOR REVIEW. DATA SHALL BE COMPLETE IN ALL RESPECTS AND SHALL REFERENCE, WHERE APPLICABLE, TO THE UNIT SYMBOL UTILIZED ON THE DRAWINGS AND SPECIFICATIONS.

PIPING:

ALL SANITARY WASTE AND VENT PIPING SHALL BE SCHEDULE 40 DWV PVC WITH DRAINAGE TYPE FITTINGS.

DOMESTIC WATER PIPING INSTALLED ABOVE GRADE SHALL BE TYPE L COPPER TUBING WITH WROUGHT COPPER SWEAT FITTINGS AND LEAD–FREE SOLDER JOINTS. PIPING INSTALLED BELOW GRADE SHALL BE TYPE K COPPER, INSTALLED WITHOUT ANY JOINTS BELOW THE FLOOR SLAB.

VALVES:

VALVES FOR DOMESTIC WATER SYSTEM: GATE VALVES SHALL HAVE BRONZE BODY, RISING STEM, SOLID WEDGE, THREADED BONNET, AND SOLDER ENDS FOR 125# SWP. WHERE GATE 2" AND SMALLER ARE SPECIFIED, QUARTER–TURN FULL PORT BALL VALVES MAY BE SUBSTITUTED.

CLEANOUTS:

PROVIDE CLEANOUTS IN SOIL AND WASTE LINES AS SHOWN, AS REQUIRED BY THE GOVERNING CODE, AT THE BOTTOM OF EACH EXPOSED FIXTURE TRAP WHICH IS NOT INTEGRAL WITH THE FIXTURE, AT THE END OF EACH BRANCH DRAINAGE LINE, AT EACH CHANGE OF HORIZONTAL DIRECTION GREATER THAN 45 DEGREES, AT THE FOOT OF EACH SOIL AND RAINWATER STACK, AND IN HORIZONTAL DRAIN LINES AT INTERVALS OF NOT MORE THAN 75'.

FLOOR DRAINS:

FLOOR DRAINS, INCLUDING SHOWER DRAINS, SHALL BE EQUAL TO JOSAM MODEL 30000–A. EACH FLOOR DRAIN, EXCEPT SHOWER DRAINS, SHALL HAVE A TRAP PRIMER.

TRAPS:

PROVIDE TRAPS FOR ALL FIXTURES AND FLOOR DRAINS, EXCEPT AS NOTED OTHERWISE. SET TRAPS TRUE AND LEVEL. PROVIDE EXPOSED TRAPS WITH BRASS CLEANING SCREWS.

INSULATION:

PIPE INSULATION SHALL BE ONE–PIECE FIBROUS GLASS SECTIONAL PIPE INSULATION WITH FACTORY APPLIED GLASS REINFORCED ALUMINUM FOIL AND WHITE KRAFT PAPER FLAME RETARDANT VAPOR BARRIER JACKET. LONGITUDINAL JACKET LAPS AND BUTT STRIPS SHALL BE SELF–SEALING. INSULATE ALL NEW DOMESTIC WATER PIPING WITH MINIMUM 1" THICK INSULATION.

PLUMBING FIXTURES:

ALL FIXTURES SHALL BE COMMERCIAL GRADE VITREOUS CHINA, ENAMELED CAST IRON, OR STAINLESS STEEL, AS INDICATED. FOR EACH FIXTURE, PROVIDE CHROME PLATED BRASS STOP VALVES ON BOTH COLD AND HOT WATER SUPPLIES, WITH STAINLESS STEEL BRAIDED RUBBER SUPPLY HOSES FROM THE STOP VALVES TO THE FIXTURES. EACH SINK AND LAVATORY SHALL ALSO BE PROVIDED WITH A 17 GAUGE, CHROME–PLATED BRASS P–TRAP, WITH CLEANOUT PLUG. ALL FAUCETS AND SHOWER VALVES SHALL BE CHROME PLATED BRASS CONSTRUCTION. (REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFIC MODEL NUMBERS FOR SOME FIXTURES.)

FIXTURES SHALL BE AS FOLLOWS:

F1 – WATER CLOSET (ACCESSIBLE): FLOOR MOUNTED, ELONGATED WHITE VITREOUS CHINA, 16.5" HIGH RIM, 1.28 GPF MANUAL FLUSH VALVE, OPEN FRONT SEAT, ADA COMPLIANT. AMERICAN STANDARD, KOHLER, ELJER OR CRANE.

F2 – WATER CLOSET: FLOOR MOUNTED, ELONGATED WHITE VITREOUS CHINA, 15" HIGH RIM, 1.28 GPF MANUAL FLUSH VALVE, OPEN FRONT SEAT, ADA COMPLIANT. AMERICAN STANDARD, KOHLER, ELJER OR CRANE.

F3 – LAVATORY (ACCESSIBLE): WHITE VITREOUS CHINA, OVAL SELF–RIMMING, COUNTERTOP TYPE, AMERICAN STANDARD, KOHLER, ELJER OR CRANE, ADA COMPLIANT. FAUCET SHALL BE CHROME PLATED BRASS, SINGLE LEVER TYPE, WITH STANDARD SPOUT, 0.5 GPM AERATOR AND GRID DRAIN, AMERICAN STANDARD, CHICAGO, KOHLER OR MOEN. ADA COMPLIANT.

F4 – SINGLE COMPARTMENT LAUNDRY SINK: MINIMUM 18 GAUGE STAINLESS STEEL, SELF–RIMMING COUNTERTOP SINK WITH SINGLE 21"X16"X10" DEEP BOWL, CHROME PLATED BRASS DRAIN WITH REMOVABLE CRUMB CUP, CHROME–PLATED BRASS P–TRAP WITH CLEANOUT PLUG, CHROME PLATED BRASS SUPPLY STOPS AND STAINLESS STEEL BRAIDED RUBBER SUPPLY HOSES. FAUCET SHALL BE CHROME PLATED BRASS CONSTRUCTION, SINGLE LEVER TYPE, WITH SWIVEL SPOUT.

F5 – TWO COMPARTMENT KITCHEN SINK: MINIMUM 18 GAUGE STAINLESS STEEL, SELF–RIMMING COUNTERTOP SINK WITH TWO 13.5"X16"X8" DEEP BOWLS, CHROME PLATED BRASS DRAINS WITH REMOVABLE CRUMB CUPS, CHROME–PLATED BRASS P–TRAP WITH CLEANOUT PLUG, CHROME PLATED BRASS SUPPLY STOPS AND STAINLESS STEEL BRAIDED RUBBER SUPPLY HOSES. FAUCET SHALL BE CHROME PLATED BRASS CONSTRUCTION, SINGLE LEVER TYPE, WITH SWIVEL SPOUT AND PULL–OUT HOSE SPRAY.

F6 – TWO COMPARTMENT LAUNDRY SINK: MINIMUM 14 GAUGE STAINLESS STEEL, FLOOR MOUNTED ON ADJUSTABLE LEGS, WITH TWO 18"X24"X14" DEEP BOWLS, LEFT AND RIGHT DRAINBOARDS, CHROME PLATED BRASS DRAINS WITH REMOVABLE CRUMB CUPS, CHROME–PLATED BRASS P–TRAP WITH CLEANOUT PLUG, CHROME PLATED BRASS SUPPLY STOPS AND STAINLESS STEEL BRAIDED RUBBER SUPPLY HOSES. FAUCET SHALL BE CHROME PLATED BRASS CONSTRUCTION, SINGLE LEVER TYPE, WITH SWIVEL SPOUT. FIXTURE SHALL BE ADVANCE TABCO 94–62–36–36RL, OR EQUAL.

F7 – MOP RECEPTOR: NOMINAL 36'X36'X12" DEEP MOLDED STONE BASIN WITH STAINLESS STEEL RIM GUARD AND CHROME PLATED BRASS GRID DRAIN. FAUCET SHALL BE WALL MOUNTED AT 36" AFF. FAUCET SHALL BE FAUCET SHALL BE CHROME PLATED BRASS WITH INTEGRAL SUPPLY STOPS, VACUUM BREAKER, BLADE HANDLES, HOSE THREADS, BUCKET HOOK AND TOP ANGLE WALL BRACE

F8 – SHOWER (ACCESSIBLE); (SHOWER STALL IS CERAMIC TILE.) PROVIDE PRESSURE BALANCED SHOWER VALVE, ADJUSTABLE, WALL MOUNTED SHOWER HEAD, HAND–HELD SHOWER HEAD ON 2' SLIDE BAR WITH SHOWER HEAD SELECTOR VALVE, AND SHOWER DRAIN EQUAL TO FLOOR DRAINS SPECIFIED ABOVE. ADA COMPLIANT. AMERICAN STANDARD, CHICAGO, KOHLER OR MOEN.

F9 – SHOWER; (SHOWER STALL IS CERAMIC TILE.) PROVIDE PRESSURE BALANCED SHOWER VALVE, ADJUSTABLE, WALL MOUNTED SHOWER HEAD, AND SHOWER DRAIN EQUAL TO FLOOR DRAINS SPECIFIED ABOVE. AMERICAN STANDARD, CHICAGO, KOHLER OR MOEN.

F10 – DRINKING FOUNTAIN (ACCESSIBLE): WALL MOUNTED, BI–LEVEL REFRIGERATED DRINKING FOUNTAIN WITH FRONT AND SIDE TOUCH PADS, 8 GPH COOLING CAPACITY, ADA COMPLIANT. ELKAY, EBCO OR HALSEY TAYLOR.

F11 – WASHER BOX: RECESSED, GALVANIZED STEEL HOUSING WITH METAL TRIM RING, 2" WASTE OUTLET AND QUARTER TURN BALL TYPE HOT AND COLD WATER STOP VALVES WITH HOSE THREADS. GUY GRAY MODEL BB200TS, OR EQUAL.

WATER HEATER:

WATER HEATER SHALL BE HIGH EFFICIENCY, GAS FIRED, STORAGE TYPE, ENERGY EFFICIENT, COMPLYING WITH ASHRAE STANDARD 90.1, WITH MANUAL DRAIN VALVE AND ASME P&T RELIEF VALVE. HEATER SHALL BE PIPED AS SHOWN IN DETAILS 1/P101 AND 2/P101. CAPACITIES SHALL BE AS SCHEDULED ON THE DRAWINGS. HEATER SHALL BE A.O. SMITH, AS SCHEDULED, OR EQUAL STATE, OR RHEEM.

SERVICE AIR COMPRESSOR:

AIR COMPRESSOR SHALL BE VERTICAL TANK MOUNTED, WITH TWO–STAGE COMPRESSOR, 80 GALLON RECEIVER, 7.5 HP MOTOR. CAPACITY SHALL BE 25.1 CFM AT 175 PSIG MAXIMUM PRESSURE. COMPRESSOR SHALL BE SCHULZ MODEL 7580VV30X–1, OR APPROVED EQUAL.

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	NOTES	RIM HEIGHT	COLD WATER		HOT WATER		SOIL/WASTE	
				BRANCH	CONN.	BRANCH	CONN.	BRANCH	CONN.
F1	WATER CLOSET (ACCESSIBLE)	1, 2, 5	16.5"	1"	1"	–	–	4"	4"
F2	WATER CLOSET	2, 5	15"	1"	1"	–	–	4"	4"
F3	LAVATORY (ACCESSIBLE)	1, 3, 7, 9	34"	1/2"	1/2"	1/2"	1/2"	2"	1–1/4"
F4	SINGLE COMPARTMENT LAUNDRY SINK	4, 7	34"	1/2"	1/2"	1/2"	1/2"	2"	1–1/2"
F5	TWO COMPARTMENT SINK (ACCESSIBLE)	1, 4, 7	34"	1/2"	1/2"	1/2"	1/2"	2"	1–1/2"
F6	TWO COMPARTMENT LAUNDRY SINK	4, 7	34"	1/2"	1/2"	1/2"	1/2"	2"	1–1/2"
F7	MOP RECEPTOR	5, 8	12"	1/2"	1/2"	1/2"	1/2"	3"	3"
F8	SHOWER (ACCESSIBLE)	1, 10, 11, 12, 13	–	1/2"	1/2"	1/2"	1/2"	3"	2"
F9	SHOWER	10, 11	–	1/2"	1/2"	1/2"	1/2"	3"	2"
F10	BI–LEVEL DRINKING FOUNTAIN (ACCESSIBLE)	1, 6	32"/38"	1/2"	3/8"	–	–	2"	1–1/4"
F11	WASHER BOX	6	36"	1/2"	1/2"	1/2"	1/2"	2"	2"

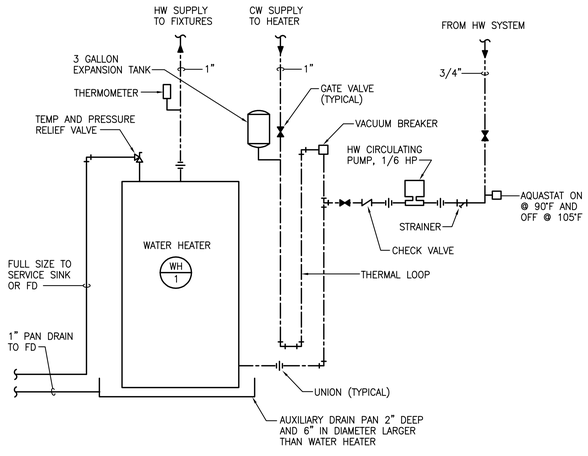
1. HANDICAP ACCESSIBLE FIXTURE
2. 1.28 GPF LEVER OPERATED FLUSH VALVE
3. SINGLE LEVER FAUCET WITH STANDARD SPOUT
4. SINGLE LEVER FAUCET WITH SWIVEL SPOUT
5. FLOOR MOUNTED FIXTURE
6. WALL HUNG FIXTURE
7. COUNTERTOP FIXTURE
8. WALL MOUNTED FAUCET
9. 0.5 GPM TAMPER–PROOF AERATOR
10. PRESSURE BALANCED SHOWER VALVE
11. ADJUSTABLE WALL MOUNT SHOWER HEAD
12. ADJUSTABLE HAND–HELD SHOWER HEAD
13. SHOWER HEAD DIVERTER VALVE
14.
15.
16.

WATER HEATER SCHEDULE

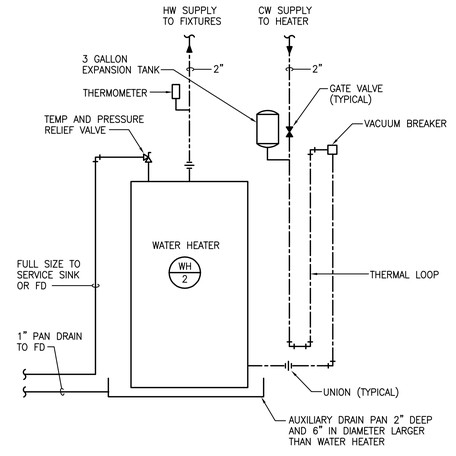
SYMBOL	HEATER SERVICE	HEATER TYPE	HEAT INPUT	STORAGE CAPACITY	RECOVERY RATE (GPH)	DISCHARGE TEMP (°F)	MANUFACTURER & MODEL	REMARKS
WH–1	DOMESTIC HOT WATER	GAS STORAGE	120 MBH	60 GAL	197 @ 70° RISE	110	A. O. SMITH BTH–120	
WH–2	DOMESTIC HOT WATER	GAS STORAGE	300 MBH	130 GAL	349 @ 100° RISE	140	A. O. SMITH BTH–300	

PUMPS

SERVICE	TYPE	GPM	HEAD FT. H_2O	RPM	MAX. H.P.	ELECTRICAL VOLTS/PH	MODEL	REMARKS
HOT WATER RECIRC	IN–LINE	5	3	1760	1/8	120/1	GRUNDFOS UP15–10B7	



1/P101 **DETAIL - WATER HEATER WH-1**
NOT TO SCALE



2/P101 **DETAIL - WATER HEATER WH-2**
NOT TO SCALE

PLUMBING LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	S,W	SOIL OR WASTE PIPE
	V	VENT PIPE
	CW	COLD WATER PIPE
	HW	HOT WATER PIPE
	HWC	HOT WATER CIRC. PIPE
	FS	FLOOR SINK
	FD	FLOOR DRAIN
	FCO	FLOOR CLEANOUT
	COTG	CLEANOUT TO GRADE
	GV	GATE VALVE
	CKV	CHECK VALVE
	STR	STRAINER
	U	UNION
	–	CONNECT TO EXISTING
	AFF	ABOVE FINISHED FLOOR
	A/C	ABOVE CEILING
	(BF)	BARRIER FREE
	B/F	BELOW FLOOR
	B/G	BELOW GRADE
	F	PLUMBING FIXTURE
	VTR	VENT THRU ROOF

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DATE	COMMENTS
09.27.2018	BID SET / PERMIT SET

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FAYETTE CO.
FIRE STATION
NO. 4

278 MCELROY ROAD
FAYETTEVILLE, GEORGIA

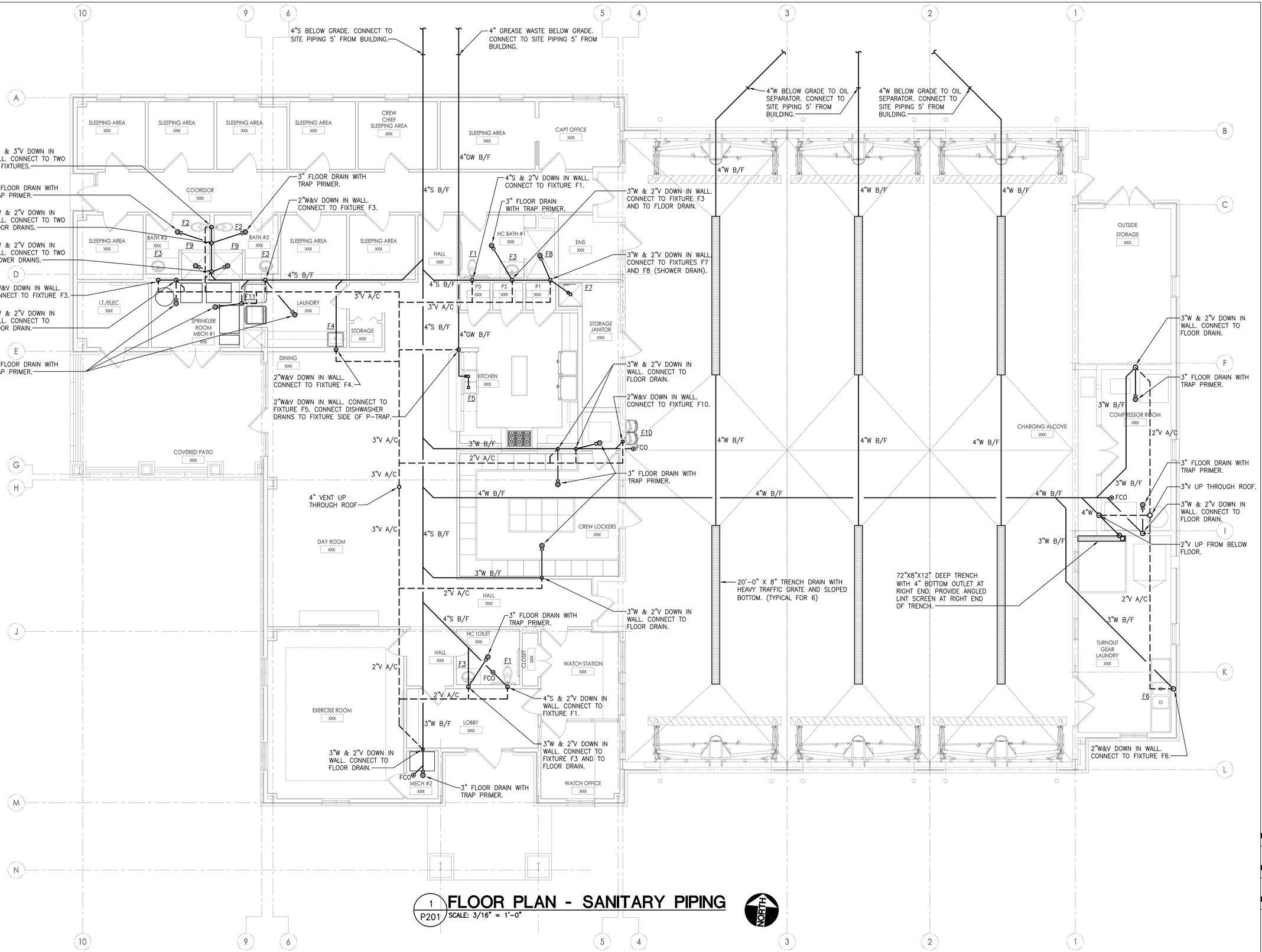
Prepared for
FAYETTE CO.
FIRE DEPT

COMMISSION NO:
1748.00

SHEET TITLE:
PLUMBING SCHEDULES, DETAILS & SPECIFICATIONS

SHEET NO:
P101

NOT ISSUED FOR CONSTRUCTION



1 P201 FLOOR PLAN - SANITARY PIPING

SCALE: 3/16" = 1'-0"

NORTH

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FAYETTE CO. FIRE STATION NO. 4

278 MCELROY ROAD
FAYETTEVILLE, GEORGIA

Prepared for
FAYETTE CO. FIRE DEPT

COMMISSION NO:
1748.00

SHEET TITLE:
FLOOR PLAN - SANITARY PIPING

SHEET NO:
P201

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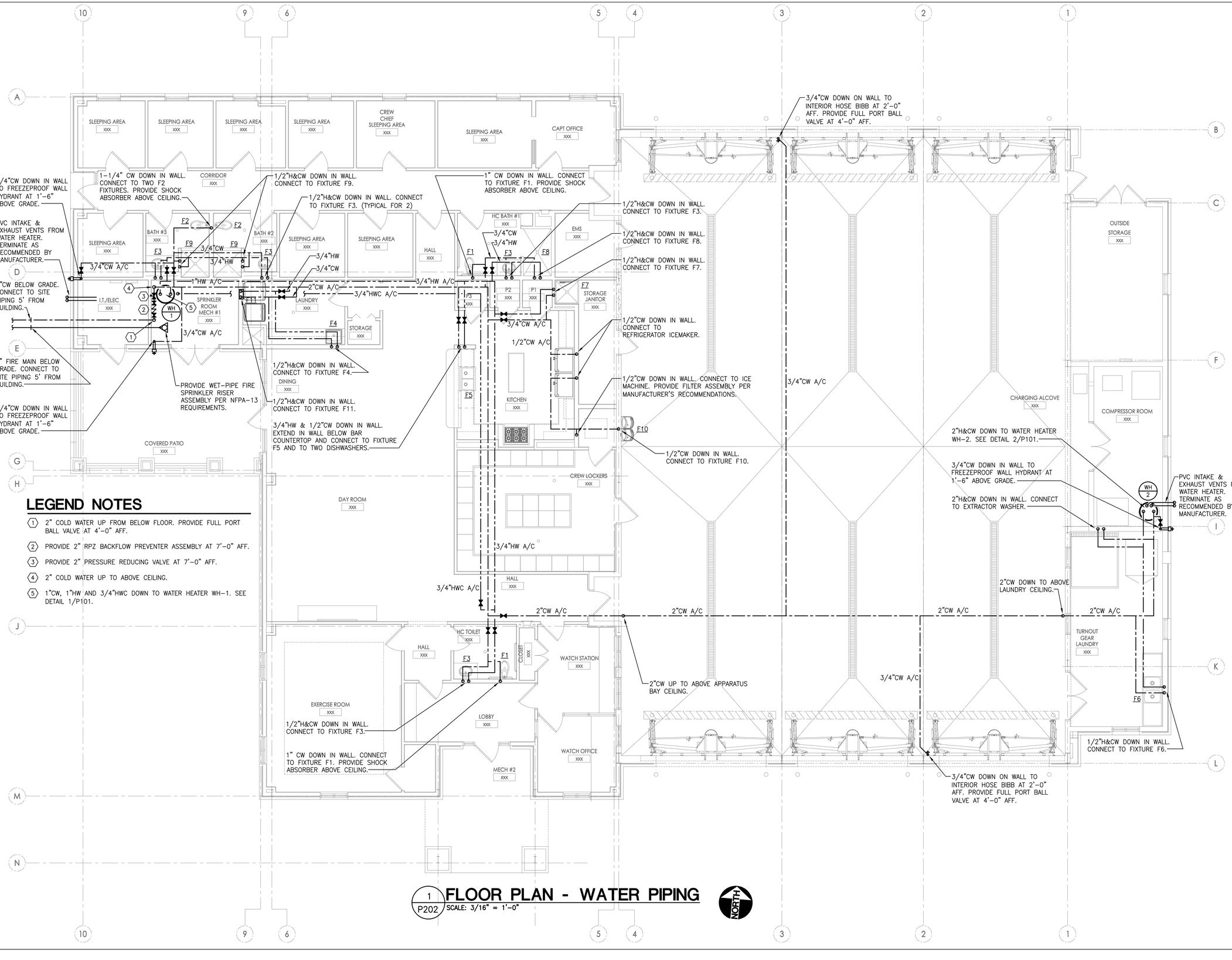

LEGEND NOTES

1. 2" COLD WATER UP FROM BELOW FLOOR. PROVIDE FULL PORT BALL VALVE AT 4'-0" AFF.
2. PROVIDE 2" RPZ BACKFLOW PREVENTER ASSEMBLY AT 7'-0" AFF.
3. PROVIDE 2" PRESSURE REDUCING VALVE AT 7'-0" AFF.
4. 2" COLD WATER UP TO ABOVE CEILING.
5. 1"CW, 1"HW AND 3/4"HWC DOWN TO WATER HEATER WH-1. SEE DETAIL 1/P101.

1 P202 FLOOR PLAN - WATER PIPING

SCALE: 3/16" = 1'-0"

NORTH

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DATE	COMMENTS
09.27.2018	BID SET / PERMIT SET

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FAYETTE CO.
FIRE STATION
NO. 4

278 MCELROY ROAD
FAYETTEVILLE, GEORGIA

Prepared for
FAYETTE CO.
FIRE DEPT

COMMISSION NO:
1748.00

SHEET TITLE:
FLOOR PLAN - WATER PIPING

SHEET NO:
P202

NOT ISSUED FOR CONSTRUCTION

2" GAS @ 3.0 PSIG BELOW GRADE TO GENERATOR.

2" GAS @ 3.0 PSIG BELOW GRADE TO GENERATOR. SEE SITE PLAN FOR EXACT LOCATION OF GENERATOR. CONNECT TO GENERATOR IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. AS A MINIMUM, PROVIDE MANUAL GAS COCK, PRESSURE REGULATOR AND UNION.

SLEEPING AREA xxx
SLEEPING AREA xxx
SLEEPING AREA xxx
SLEEPING AREA xxx
CREW CHIEF SLEEPING AREA xxx
SLEEPING AREA xxx
CAPT OFFICE xxx
COORIDOR xxx
BATH #3 xxx
BATH #2 xxx
SLEEPING AREA xxx
SLEEPING AREA xxx
SLEEPING AREA xxx
HALL xxx
HC BATH #1 xxx
ADA SHOWER
EMS xxx
OUTSIDE STORAGE xxx
I.T./ELEC xxx
SPRINKLER ROOM MECH #1 xxx
LAUNDRY xxx
STORAGE xxx
STORAGE JANITOR xxx
DINING xxx
KITCHEN xxx
COVERED PATIO xxx
CREW LOCKERS xxx
DAY ROOM xxx
HALL xxx
HC TOILET xxx
CLOSET xxx
WATCH STATION xxx
EXERCISE ROOM xxx
LOBBY xxx
WATCH OFFICE xxx
MECH #2 xxx
COMPRESSOR ROOM xxx
CHARGING ALCOVE xxx
TURNOUT GEAR LAUNDRY xxx

WH-1
WH-2
GF-1
GF-2
GF-3
GF-4
GF-5
P3 xxx
P2 xxx
P1 xxx

1-1/4" GAS DOWN TO WH-1. PROVIDE MANUAL GAS COCK AND FLEX CONNECTOR.

3/4" GAS DOWN TO GF-1. PROVIDE MANUAL GAS COCK AND FLEX CONNECTOR.

1" GAS DOWN TO GF-2. PROVIDE MANUAL GAS COCK AND FLEX CONNECTOR.

1" GAS DOWN TO GF-3. PROVIDE MANUAL GAS COCK AND FLEX CONNECTOR.

3"G (0.5 PSIG) A/C

3"G

3"G

2-1/2"G A/C

2-1/2"G A/C

2-1/2"G A/C

2-1/2" GAS UP TO ABOVE APPARATUS BAY CEILING.

1-1/2"G A/C

1-1/2"G A/C

1-1/2"G A/C

1"G A/C

2"G A/C

1-1/2"G A/C

3/4" GAS B/G

3/4" GAS DOWN TO GF-5. PROVIDE MANUAL GAS COCK AND FLEX CONNECTOR.

TURN 3/4" GAS UP FROM BELOW GRADE, TIGHT TO PATIO SCREEN WALL. TURN THROUGH SCREEN WALL AT APPROX. 1'-0" AFF AND CAP FOR FUTURE EXTENSION.

1-1/2" GAS DOWN IN WALL TO RANGE. TURN OUT AT APPROX. 1'-0" AFF. PROVIDE MANUAL GAS COCK, GAS SOLENOID VALVE AND FLEX. CONNECTOR. INTERLOCK SOLENOID VALVE WITH RANGE HOOD FIRE SUPPRESSION SYSTEM.

1" GAS DOWN TO GRH-1. PROVIDE MANUAL GAS COCK AND FLEX CONNECTOR.

1" GAS DOWN TO GRH-3. PROVIDE MANUAL GAS COCK AND FLEX CONNECTOR.

1" GAS DOWN TO GRH-7. PROVIDE MANUAL GAS COCK AND FLEX CONNECTOR.

1" GAS DOWN TO GRH-8. PROVIDE MANUAL GAS COCK AND FLEX CONNECTOR.

1" GAS DOWN TO GRH-4. PROVIDE MANUAL GAS COCK AND FLEX CONNECTOR.

1" GAS DOWN TO GRH-5. PROVIDE MANUAL GAS COCK AND FLEX CONNECTOR.

1" GAS DOWN TO GRH-6. PROVIDE MANUAL GAS COCK AND FLEX CONNECTOR.

1" GAS DOWN TO GRH-2. PROVIDE MANUAL GAS COCK AND FLEX CONNECTOR.

1" GAS DOWN TO GF-4. PROVIDE MANUAL GAS COCK AND FLEX CONNECTOR.

1-1/2" GAS DOWN TO ABOVE COMPRESSOR ROOM CEILING.

1-1/2" GAS DOWN TO WH-2. PROVIDE MANUAL GAS COCK AND FLEX CONNECTOR.

2"G A/C
2"G A/C
2"G A/C

1-1/2"G A/C

LEGEND NOTES

1. PROVIDE GAS METER WITH A CAPACITY OF 10,220 CFH AT A DELIVERY PRESSURE OF 3.0 PSIG.
2. 2", 3 PSIG GAS DOWN TO BELOW GRADE.
3. PRESSURE REGULATOR. SET OUTLET PRESSURE TO 0.5 PSIG.
4. 3/4" GAS DOWN TO BELOW GRADE.
5. TURN 3" GAS INTO BUILDING AT APPROXIMATELY 1'-0" AFF AND TURN UP TO ABOVE CEILING.

1 P203 FLOOR PLAN - GAS PIPING

SCALE: 3/16" = 1'-0"

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DATE	COMMENTS
09.27.2018	BID SET / PERMIT SET

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FAYETTE CO. FIRE STATION NO. 4

278 MCELROY ROAD
FAYETTEVILLE, GEORGIA

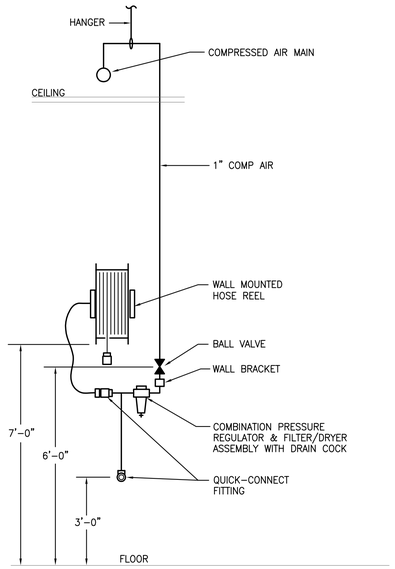
Prepared for
FAYETTE CO. FIRE DEPT

COMMISSION NO:
1748.00

SHEET TITLE:
FLOOR PLAN - GAS PIPING

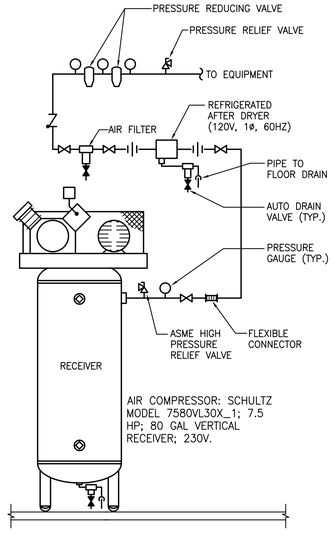
SHEET NO:
P203

NOT ISSUED FOR CONSTRUCTION



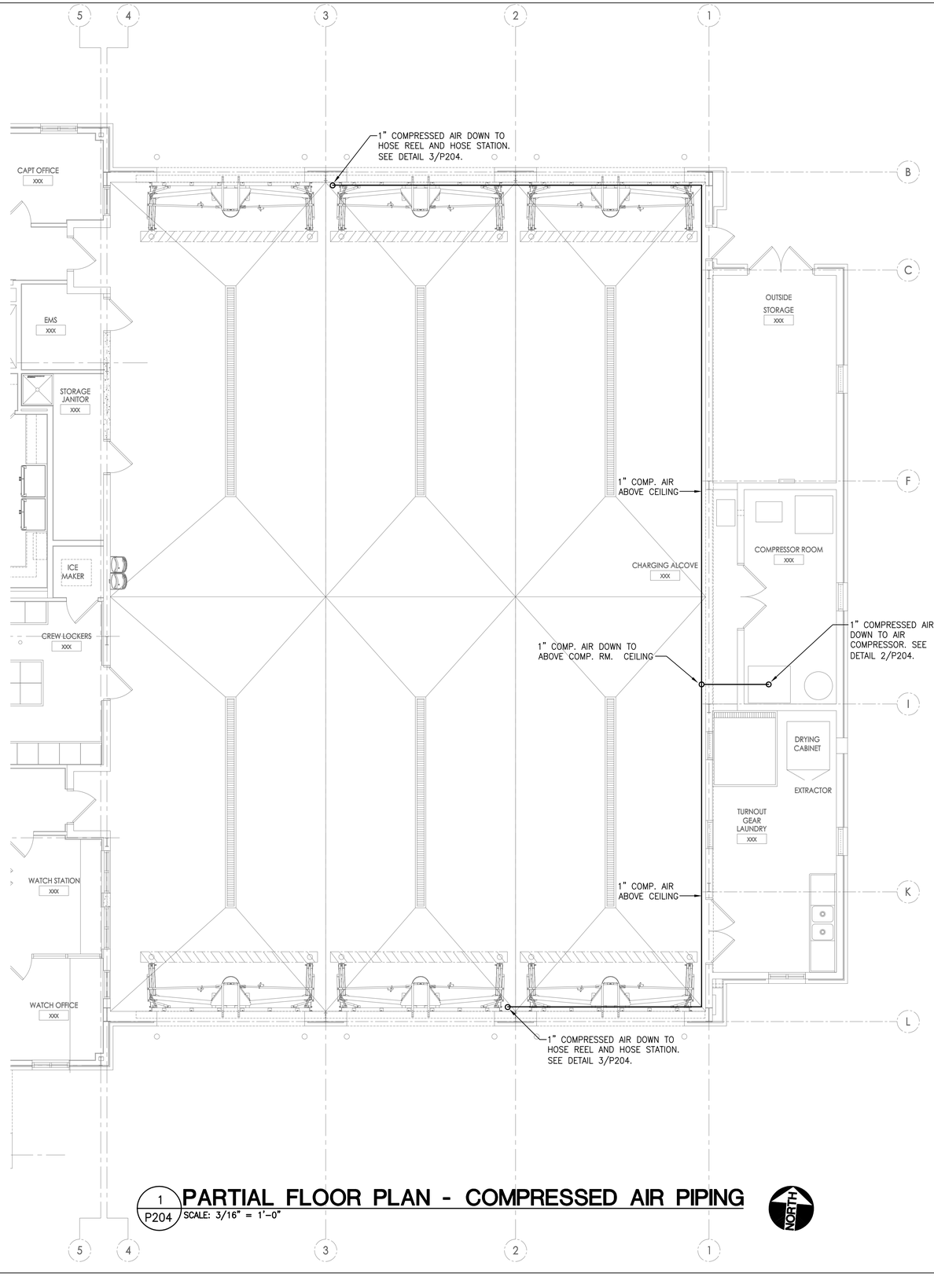
3/P204 DETAIL - COMPRESSED AIR DROP

NOT TO SCALE



2/P204 DETAIL - AIR COMPRESSOR

NOT TO SCALE



1/P204 PARTIAL FLOOR PLAN - COMPRESSED AIR PIPING

SCALE: 3/16" = 1'-0"

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SHEET TITLE:
FLOOR PLAN - COMPRESSED AIR PIPING

SHEET NO:
P204

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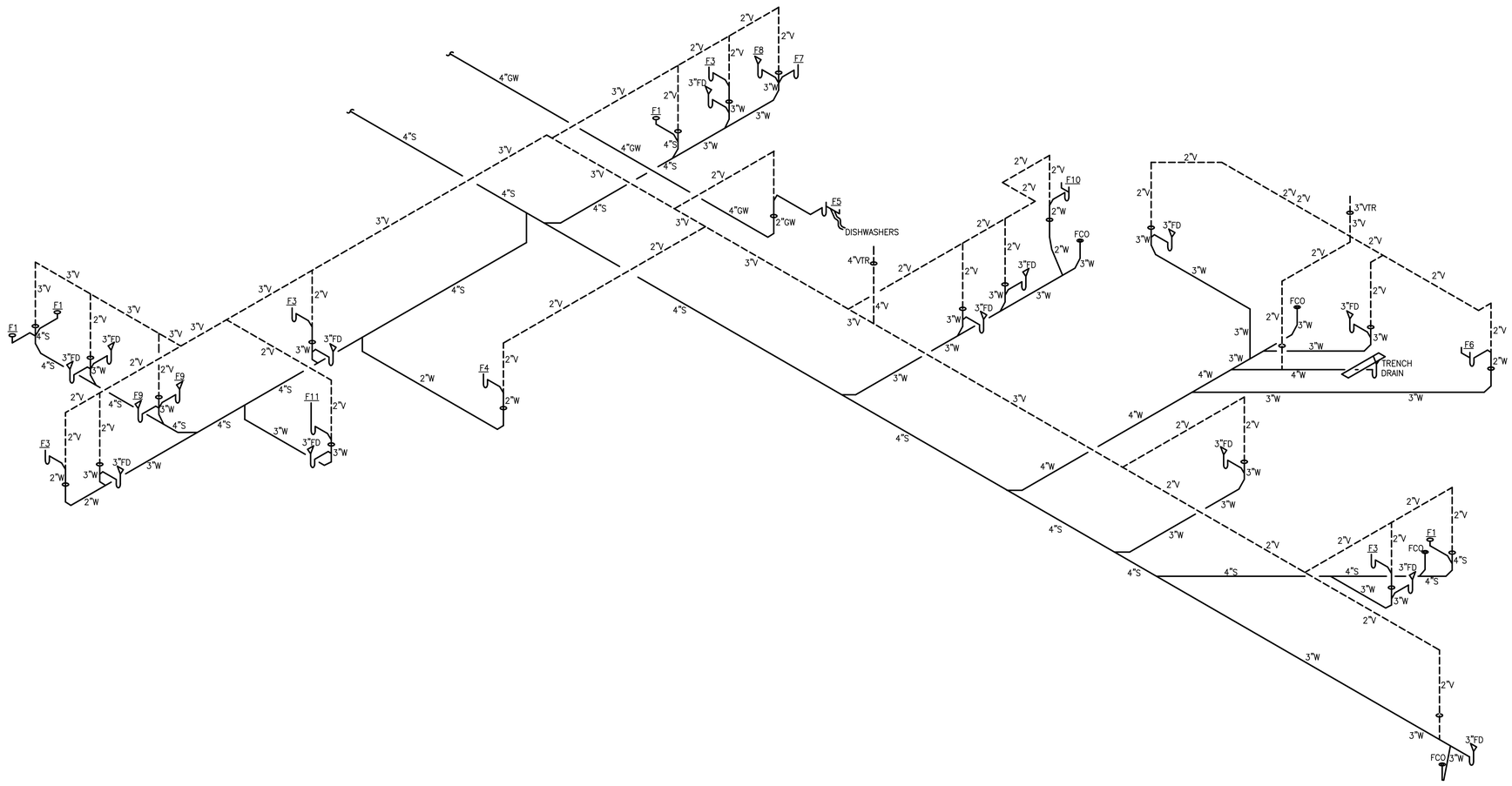

1 P301 **SANITARY PIPING RISER DIAGRAM**
NOT TO SCALE

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SANITARY PIPING
RISER DIAGRAM

SHEET NO:
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