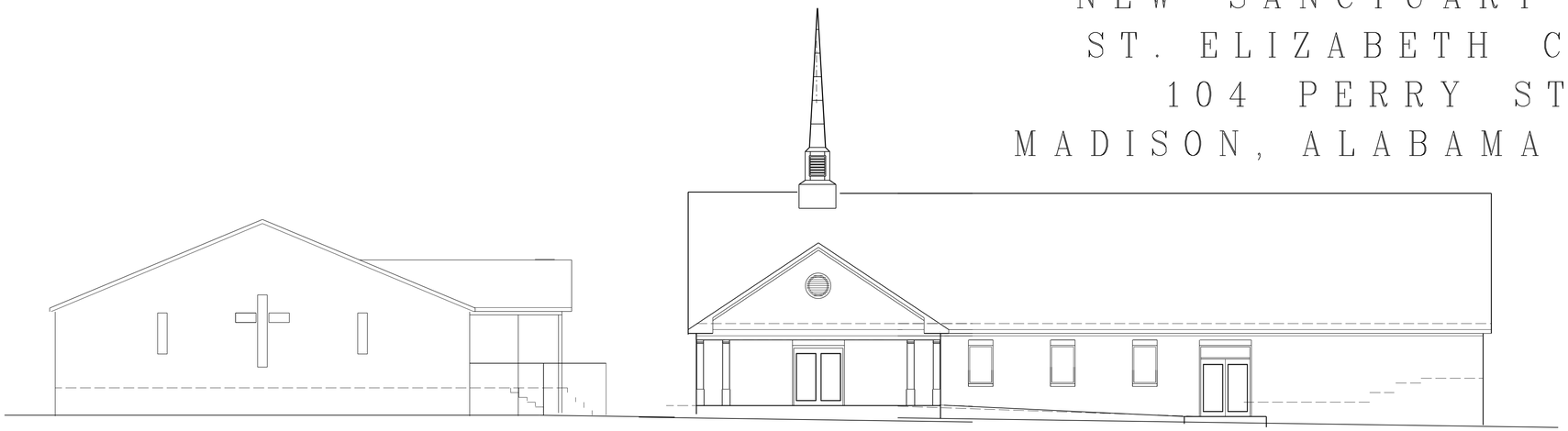
NEW SANCTUARY FOR ST. ELIZABETH CPCA 104 PERRY ST. MADISON, ALABAMA 35758



THE DESIGN FIRM

GENERAL CONTRACTOR: BOYETT CONSTRUCTION INC.
willard boyett; wboyett@boyettconstruction.net
256-974-6750

ARCHITECT:
THE DESIGN FIRM; ANITA DENSON
(CELL.: 256-318-4690; PH.: 256-351-0435; ADENSON09@GMAIL.COM;
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GREG QUALLS (PH./FAX: 256-551-0407;
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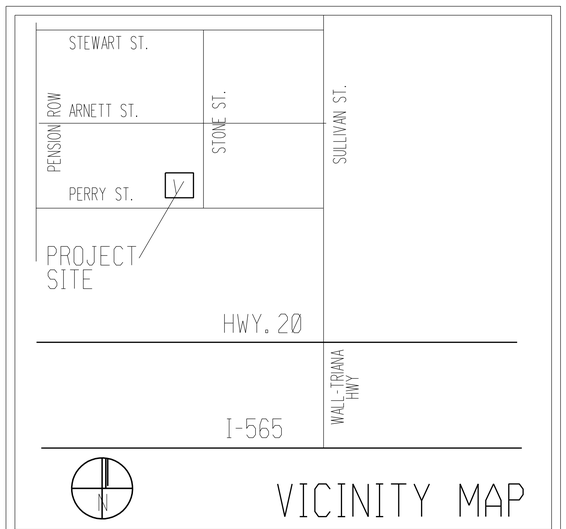
VICE ENGINEERING & SURVEYING
HARRY C VICE, JR. (PH.: 256-612-1501; HVICE@BELLSOUTH.NET;
1506 MARKS DR.; HARTSELLE, AL. 35640)



VICINITY MAP

DRAWING INDEX

3/16/18:
ADDED STRUCTURAL AND CIVIL DRAWINGS FOR CONNECTOR OPTION.

NOTES:
.THIS PROJECT IS UNDER 2009 INTERNATIONAL BUILDING CODE, 2009 INTERNATIONAL PLUMBING CODE, 2009 INTERNATIONAL MECHANICAL CODE, 2009 INTERNATIONAL FUEL GAS CODE; 2009 NATIONAL ENERGY CODE; 2005 INTERNATIONAL ELECTRIC CODE. ALABAMA IS UNDER 2011 NATIONAL ELECTRIC CODE SO THE MORE STRINGENT VERSION WILL BE COMPLIED WITH FOR THIS PROJECT (2005 OR 2011).

. THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A NEW SANCTUARY BUILDING THAT SHALL BE WOOD FRAMED, PREFABRICATED ROOF TRUSSES, BRICK VENEER AND VINYL SIDING.. ALL APPLICABLE CODES AND ORDINANCES SHALL BE COMPLIED WITH.

. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.

THE DESIGN FIRM . ANITA DENSON - ARCHITECT . adenson09@gmail.com
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NEW SANCTUARY FOR ST. ELIZABETH CPCA
104 PERRY ST.
MADISON, ALABAMA 35758

SHEET TITLE:
TITLE SHEET & NOTES

DATE: 5/10/17

REVISIONS:
3/16/18

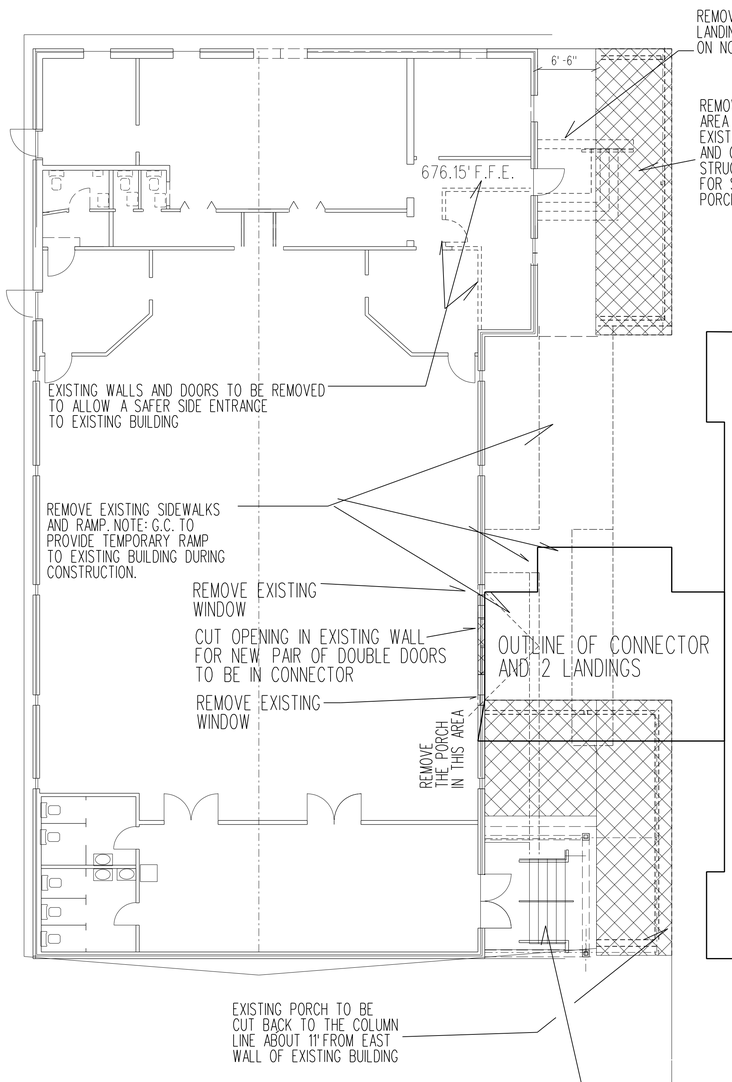
SHEET: T1

OF: 1

NOTE: SEE CIVIL DRAWINGS FOR ALL INFORMATION ABOUT SIDEWALKS, SETBACKS, EASEMENTS, PARKING, ETC. THIS DRAWING DOES NOT SHOW FULL EXTENT OF SITE DEMOLITION NEEDED FOR PROJECT.

12/24/17: CONNECTOR OPTION WAS ADDED TO CONNECT EXISTING BUILDING AND SANCTUARY ADDITION.
3/16/18: CONNECTOR OPTION WAS REVISED TO INCLUDE AN INTERIOR RAMP AND SOUTH EXTERIOR DOOR WAS DELETED.

3/16/18 REVISIONS SHOW THE ADDITIVE ALTERNATE CONNECTOR LOCATION, MODIFICATION OF EXISTING PORCHES HAVE CHANGED: EXISTING STEPS, BRICK WALL AND LANDING AT NORTH END OF EXISTING EAST SIDE IS TO BE REMOVED NOW; SIZE OF EXISTING PORCH ON SOUTH END IS TO BE CUT DOWN IN ORDER TO NOT ENCROACH ON THE CONNECTOR. IF THE CONNECTOR IS NOT TO BE BUILT, THE ORIGINAL DEMOLITION PLAN (DATED 5/10/17) WILL BE VALID.



THIS EXISTING GABLED ROOF SHALL BE REMOVED AND RE-PAIRED AS REQUIRED IN ORDER FOR IT TO NOT EXTEND OUT FROM EXISTING BUILDING MORE THAN 12'-6". THE EXISTING COLUMNS DO NOT LINE UP IN A ROW. THE NEW WIDTH IS ABOUT 14'- FIELD VERIFY WHERE THE CENTER COLUMN IS. ONCE THIS ROOF/CEILING/GABLE PORCH ROOF IS EXPOSED, THEN THE STRUCTURAL ENGINEER WILL HAVE TO DETERMINE WHAT IS REQUIRED TO FRAME THE SHORTENED LENGTH OF ROOF. SIDING AND VENT SIMILAR TO ONES ON ADDITION SHALL BE INSTALLED. CEILING SHALL BE FINISHED AS REQUIRED. AN ESTIMATED COST SHALL BE INCLUDED IN G.C.'S QUOTE BECAUSE A FIXED PRICE IS NOT POSSIBLE UNTIL THE DEMOLITION OF PART OF THIS ROOF IS DONE.

NORTH

EXISTING PLAN AND SANCTUARY ADDTION FLOOR PLAN WITH DEMOLITION FOR CONNECTOR OPTION SHOWN

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

. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.

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NEW SANCTUARY FOR ST. ELIZABETH CPCA
104 PERRY ST.
MADISON, ALABAMA 35758

SHEET TITLE: EXISTING PLAN AND SANCTUARY ADDTION FLOOR PLAN WITH DEMOLITION FOR CONNECTOR OPTION SHOWN

DATE: 5/10/17

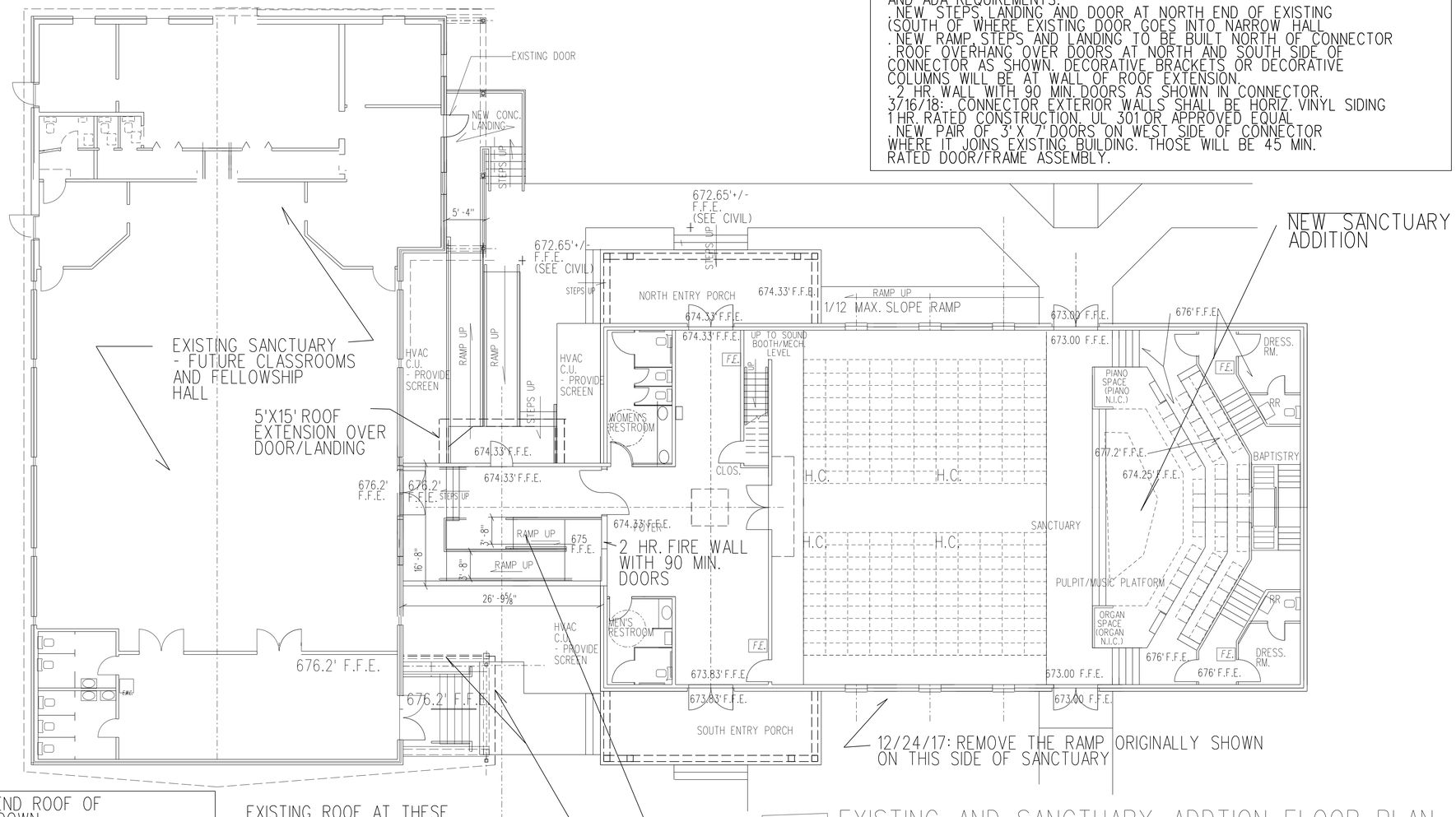
REVISIONS:
12/24/17
2/25/18

SHEET: A1 OF: 9

FRAMING NOTES:
. 10'-2X6 STUDS AT THE FOYER END OF NEW BUILDING AND 11'-4" STUDS AT THE LOWER SANCTUARY LEVEL. CEILING IN SANCTUARY IS TO BE GYP. BD. ON THE BOTTOM OF THE SCISSOR TRUSSES.
. CEILING IN THE FOYER AND RESTROOMS TO BE 8'
12/24/17: CONNECTOR EAVE HEIGHT TO MATCH EXISTING SANCTUARY. THIS APPEARS TO BE ABOUT 12' WALL STUD HEIGHT FOR CONNECTOR (FROM F.F.E. OF ADDITION 674.33')

NOTE:
G.C. TO PROVIDE AN ALLOWANCE FOR 48"+/- HIGH WOOD SCREENS AT MECH. UNITS ON WEST SIDE OF ADDITION. SEE MECH. FOR LOCATIONS.

12/24/17: NOTES FOR CONNECTOR ADDITIVE ALTERNATE (INVOLVES EXISTING PORCHES, STEPS, LANDING, BRICK WALLS):
. EXISTING PORCHES ON EAST SIDE TO BE REMOVED BACK TO 6'-6"' ON NORTH END AND ABOUT 11' ON SOUTH END (SOUTH END TO BE TAKEN BACK TO COLUMN LINE IN THE MIDDLE OF EXISTING LARGE PORCH). WIDTH OF PORCHES SHALL BE MODIFIED TO FIT OVER WIDTH OF LANDINGS AT DOORS. (SEE PLANS)
. EXISTING H.C. RAMP TO BE REMOVED (EAST OF EXIST. SANCTUARY)
. EXISTING STEPS, LANDING, BRICK WALL AT NORTH END ON EAST SIDE TO BE REMOVED
. EXISTING STEPS ON SOUTH END ON EAST SIDE TO REMAIN AND RAILING ON NORTH END TO BE INSTALLED WHERE RAMP IS REMOVED.
3/16/18: ALL RAILINGS SHALL MEET IBC AND ADA REQUIREMENTS.
. NEW STEPS, LANDING AND DOOR AT NORTH END OF EXISTING (SOUTH OF WHERE EXISTING DOOR GOES INTO NARROW HALL
. NEW RAMP, STEPS AND LANDING TO BE BUILT NORTH OF CONNECTOR
. ROOF OVERHANG OVER DOORS AT NORTH AND SOUTH SIDE OF CONNECTOR AS SHOWN. DECORATIVE BRACKETS OR DECORATIVE COLUMNS WILL BE AT WALL OF ROOF EXTENSION.
. 2 HR. WALL WITH 90 MIN. DOORS AS SHOWN IN CONNECTOR.
3/16/18: . CONNECTOR EXTERIOR WALLS SHALL BE HORIZ. VINYL SIDING 1 HR. RATED CONSTRUCTION. UL 301 OR APPROVED EQUAL
. NEW PAIR OF 3' X 7' DOORS ON WEST SIDE OF CONNECTOR WHERE IT JOINS EXISTING BUILDING. THOSE WILL BE 45 MIN. RATED DOOR/FRAME ASSEMBLY.



3/16/18: EXTEND ROOF OF CONNECTOR DOWN OVER DOOR ON NORTH SIDE OF CONNECTOR. ROOF SHOULD EXTEND OUT 5' FROM BUILDING SHALL BE SUPPORTED WITH DECORATIVE BRACKETS OR DECORATIVE COLUMNS.. EAVE OF CONNECTOR SHALL BE EVEN WITH ROOF EAVE OF EXISTING

EXISTING ROOF AT THESE EXISTING DOUBLE DOORS SHALL BE CUT DOWN TO SIZE SHOWN. SEE STRUCTURAL. FIELD VERIFICATION BY STRUCTURAL ENGINEER AFTER ROOF STRUCTURE IS REVELED WILL HAVE TO BE DONE. TO CONFIRM WHAT NEEDS TO BE DONE FOR SMALLER ROOF STRUCTURE DESIRED.

CONNECTOR- ADDITIVE ALTERNATE

NORTH

EXISTING AND SANCTUARY ADDTION FLOOR PLAN WITH ADDITIVE ALTERNATE CONNECTOR SHOWN

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

. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.

THE DESIGN FIRM

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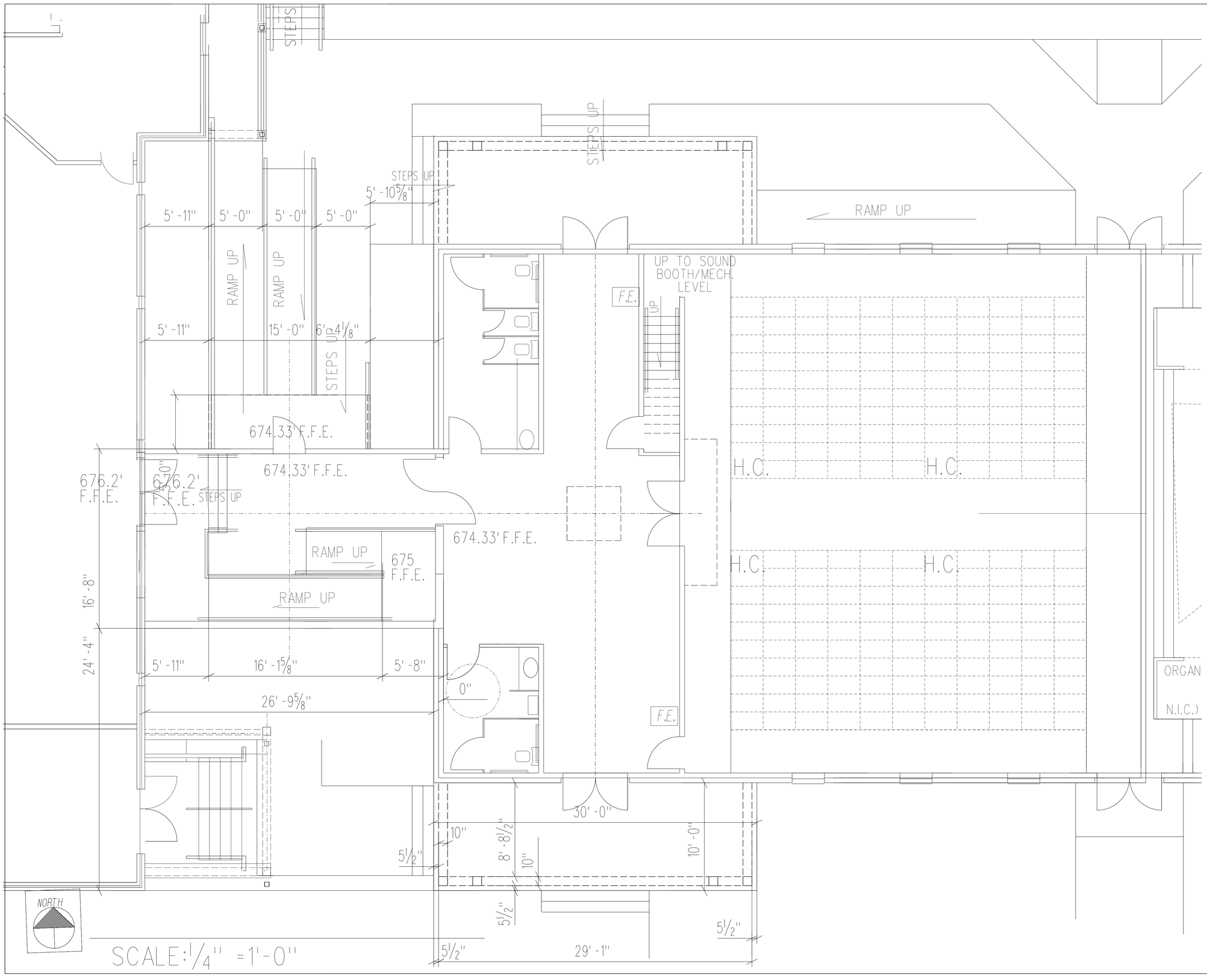
SHEET TITLE:
EXISTING AND SANCTUARY ADDTION FLOOR PLAN WITH POSSIBLE FUTURE RENOVATIONS TO EXISTING SANCTUARY SHOWN

DATE: 12/24/17

REVISIONS:
3 16 18

SHEET: A2 OF: 9



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PLAN PART B (WITH CONNECTOR OPTION)

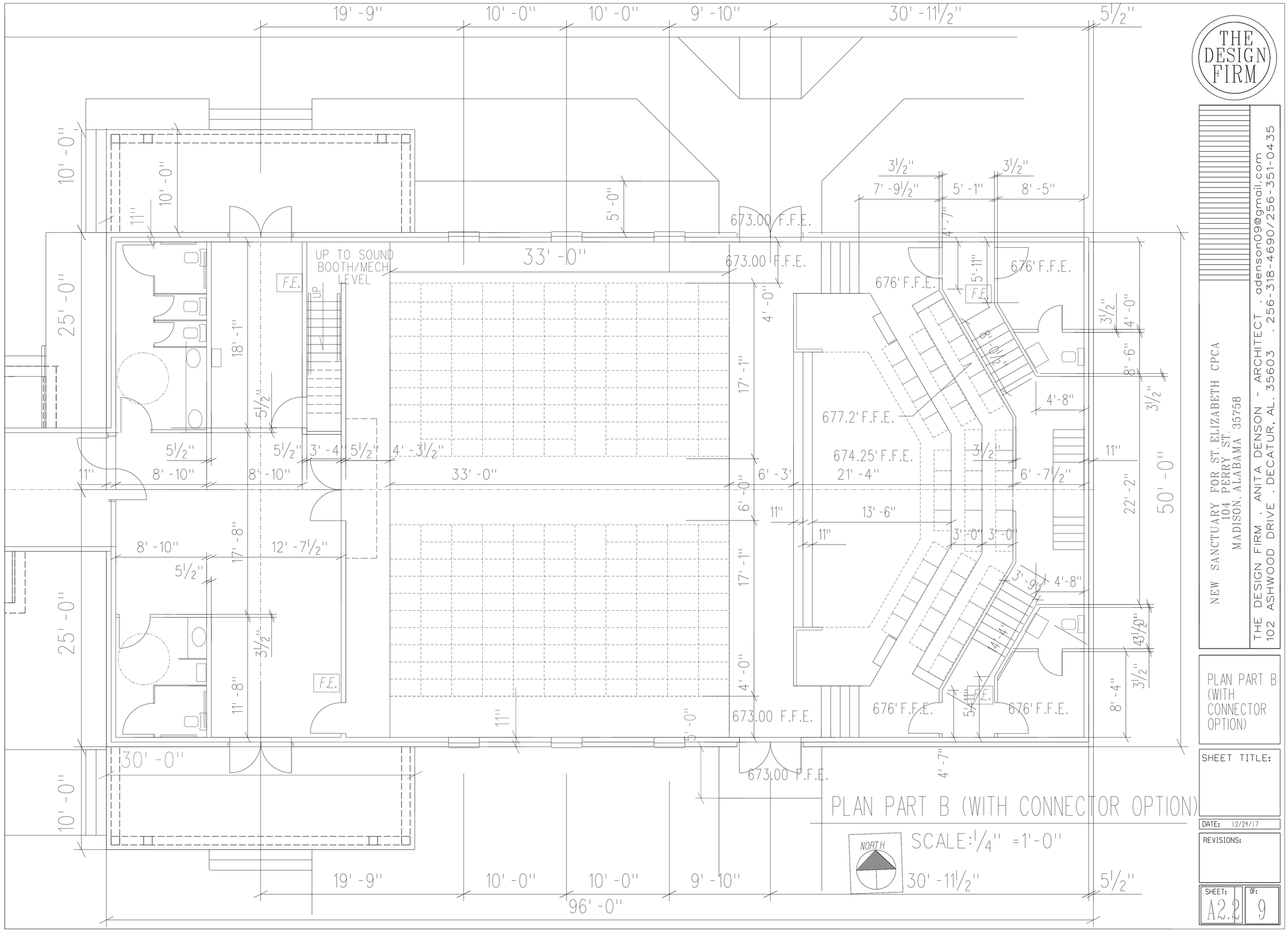
SHEET TITLE:

DATE: 12/24/17

REVISIONS:

SHEET: A2.1

OF: 9



PLAN PART B (WITH CONNECTOR OPTION)

SCALE: ¼" =1'-0"

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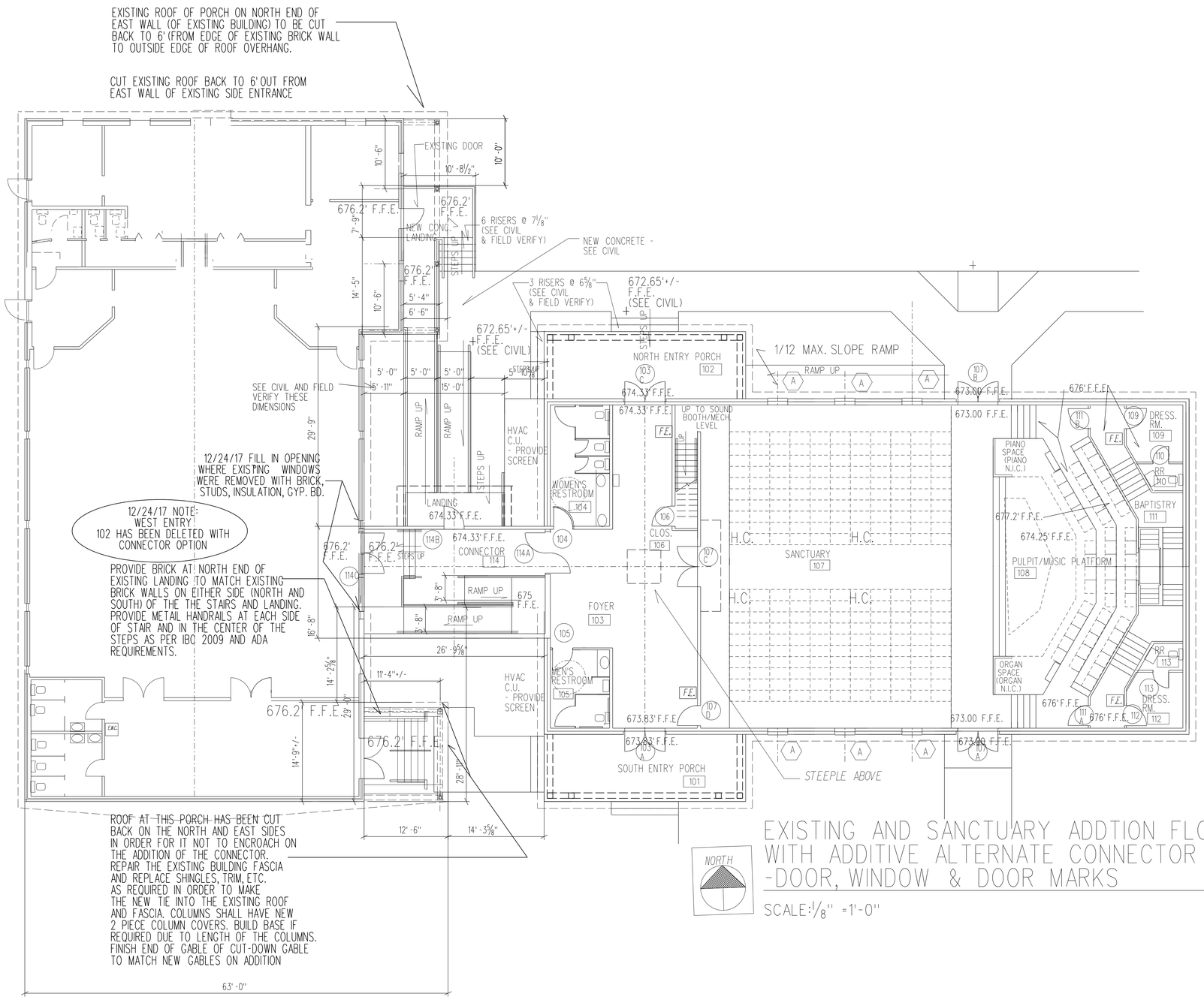
PLAN PART B (WITH CONNECTOR OPTION)

SHEET TITLE:

DATE: 12/21/17

REVISIONS:

SHEET: A2.2 OF: 9



EXISTING AND SANCTUARY ADDTION FLOOR PLAN WITH ADDITIVE ALTERNATE CONNECTOR -DOOR, WINDOW & DOOR MARKS

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

. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.

3 16 18: revised

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SHEET TITLE:
EXISTING AND SANCTUARY ADDTION FLOOR PLAN WITH ADDITIVE ALTERNATE CONNECTOR SHOWN

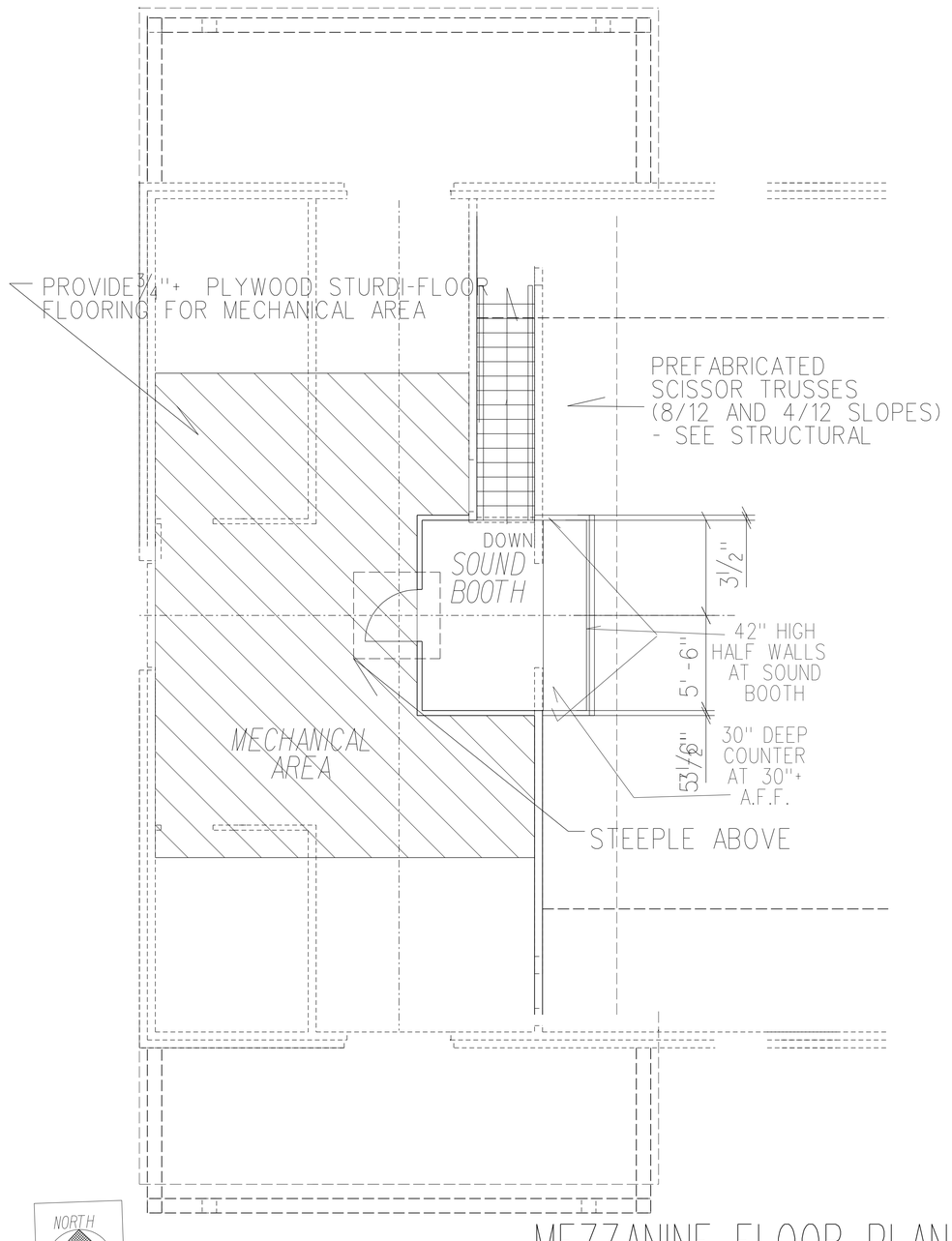
DATE: 5/10/17

REVISIONS:
12/24/17
3/16/18

SHEET: A3 OF: 9

BUILDING NOTES:
. EXTERIOR WALLS TO HAVE R19 BATT OR BLOWN INSULATION (2X6 STUD WALLS). BRICK VENEER EXCEPT AT GABLES WHERE IT SHALL BE VINYL SIDING. INSTALL MOISTURE BARRIER ON THE OUTSIDE OF WALL SHEATHING.
THERE SHALL BE 1" AIR SPACE BETWEEN WALL AND BRICK VENEER.INSTALL BRICK AS PER BRICK MASONRY INSTITUTE SPECIFICATIONS INCLUDING WEEP HOLES AND FLASHING WHERE REQUIRED.
. CEILING/ATTIC INSULATION SHALL BE MINIMUM OF R-30 BLOWN OR BATT INSULATION.
ROOF SHALL BE ARCHITECTURAL PROFILE FIBERGLASS ASPHALT SHINGLES INSTALLED OVER 2 LAYERS OF 15# FELT AND SHEATHING AS SHOWN ON STRUCTURAL DRAWINGS.

. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.



MEZZANINE FLOOR PLAN
SCALE: 1/4" =1'-0"

DOOR/WINDOW AND FINISH SCHEDULES

DOOR SCHEDULE:
103A, 103B, 103C: PAIR OF 3'X7' 20 MIN. RATED INSULATED H.M. WITH H.M. FRAME; FULL VIEW LITE WITH TEMPERED, INSULATED GLASS (SIZE OF WIRED GLASS OR EQUAL NOT LIMITED FOR 20 MIN. DOORS). DOORS SHALL HAVE PANIC HARDWARE, CLOSERS, H.C. THRESHOLDS, AND WEATHERSTRIPPING.
104, 105: 3'X6'-8" INT. FLUSH WOOD DOOR AND WOOD FRAME; CLOS. LOCK (THAT CAN BE OPENED WITHOUT KEY FROM INSIDE)
107A, 107B: PAIR OF 3'X7' INSULATED H.M. WITH H.M. FRAME; FULL VIEW LITE WITH TEMPERED, INSULATED. 1'-4" HIGH TRANSOM ABOVE PAIR OF DOORS. GLASS (SIZE OF VIEW LITE TO MATCH DOORS AT FOYER). DOORS SHALL HAVE PANIC HARDWARE, CLOSERS, H.C. THRESHOLDS, AND WEATHERSTRIPPING.
109, 110, 112, 113: 3'X6'-8" INT. FLUSH WOOD DOOR AND WOOD FRAME; PRIVACY LOCK
111A, 111B: 3'X6'-8" INT. FLUSH WOOD DOOR AND WOOD FRAME; CLOS. LOCK (THAT CAN BE OPENED WITHOUT KEY FROM INSIDE)
MECH. RM. DOOR (AT MEZZANINE): 3'X6'-8" INT. FLUSH WOOD DOOR AND WOOD FRAME; CLOS. LOCK (THAT CAN BE OPENED WITHOUT KEY FROM INSIDE)

12/24/17: DOOR 114A: PR. 3'X7' INSUL. H.M DOOR WITH H. M. FRAME 90 MIN;
3/16/18 REVD: 114B: 3'X7' INSUL. H.M DOOR WITH VIEW LITE AND INSUL. H.M. FRAME 20 MIN.
114C: PR. 3' X 7' FULL VIEW LITE INSUL. H.M DOOR AND FRAME 45 MIN.

WINDOW:
A: 3'X4'-8" VINYL WINDOW WITH INSULATED GLASS AND KRINKLE GLASS
3/16/18: OWNER WANTS ARCHED TRANSOMS. THIS WILL BE ADD BY G.C.

FINISHES:
103, 104, 105, 3/16/18: ADDED 114: V.C.T. WITH RUBBER BASE.
((3/16/18 NOTE: WAS C.T. WITH WD. BASE BUT THAT WAS NOT IN PRICE BY G.C.). PAINTED GYP. BD. WALLS AND CEILINGS. SEE LS1 FOR 1 HR. RATED WALLS.
106: V.C.T WITH RUBBER BASE; WALLS AND CEILINGS: 1 HR. RATED ASSEMBLY GYP. BD.
107, 108: CARPET; PAINTED GYP. BD. WALLS WITH WOOD TRIM (G.C. TO HAVE ALLOWANCE FOR TRIMWORK);
GYP. BD. CEILING (AT BOTTOM OF SCISSOR TRUSSES)
109, 110, 111, 112, 113: V.C.T WITH RUBBER TREADS ON STEPS; RUBBER BASE; GYP. BD. WALLS AND CEILINGS.
CEILINGS IN RMS. 109, 110, 112, 113 TO BE 8'. 111 CEILING TO BE BOTTOM OF SCISSOR TRUSSES
SOUND BOOTH: CARPET; PAINTED GYP. BD. WALLS; CEILING TO BE GYP. BD. AT BOTTOM OF SCISSOR TRUSSES
MECH. RM. AT MEZZANINE: PLYWOOD FLOOR; UNFINSHED WALLS AS CEILING EXCEPT FOR FIRERATINGS AT NORTH, SOUTH AND WEST SIDES THAT ARE REQUIRED.

CEILINGS:
.CEILINGS IN FOYER & RESTROOMS TO BE 8' GYP. BD.
. CLOSET 106 SHALL HAVE 1 HR. FIRE RATED ASSEMBLY

WALLS AND CEILINGS (2 LAYERS OF 5/8" TYPE "X" GYP BD. WITH 7/8" METAL FURRING STRIPS BETWEEN LAYERS.
SEAL ALL JOINTS AS PER MANUF.'S SPECS.
. CEILING IN SANCTUARY TO BE GYP. BD. AT BOTTOM OF SCISSOR TRUSSES.

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MADISON, ALABAMA 35758

SHEET TITLE: MEZZANINE FLOOR PLAN AND SCHEDULES/ NOTES

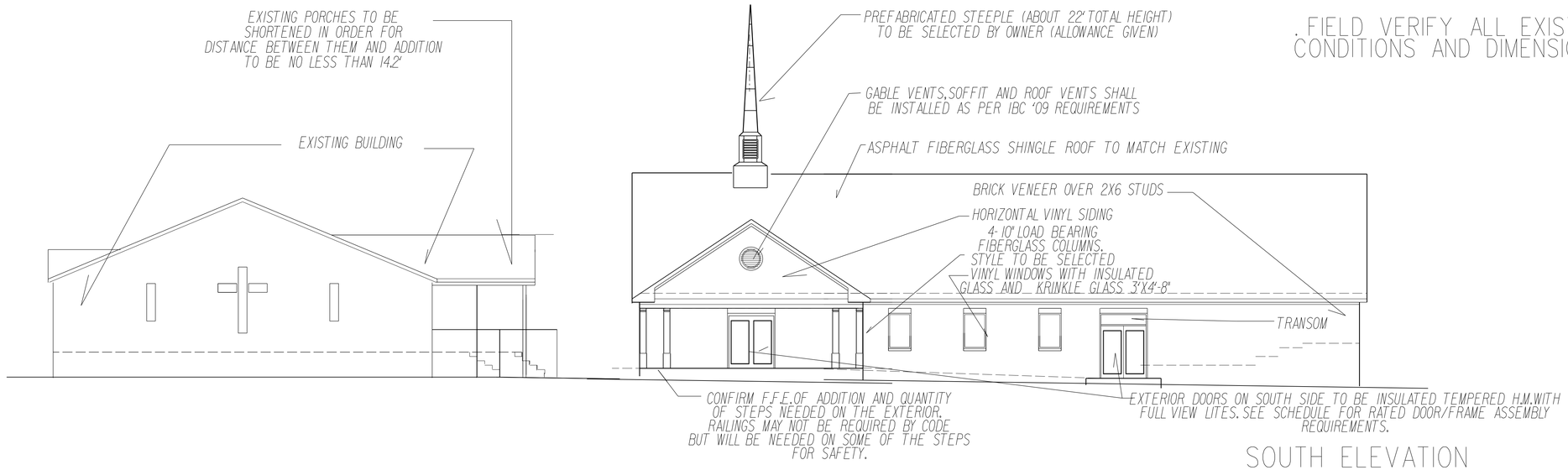
DATE: 5/10/17

REVISIONS:
12/24/17
3/16/18

SHEET: A4 OF: 9

NOTE: SEE CIVIL DRAWINGS FOR ALL INFORMATION ABOUT SIDEWALKS, SETBACKS, EASEMENTS, PARKING, ETC.

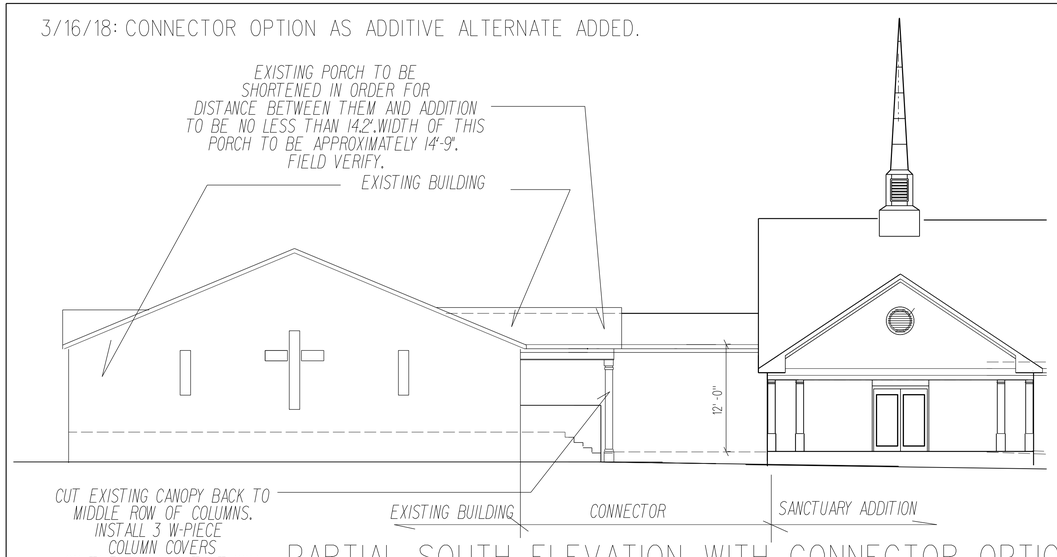
. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.



SOUTH ELEVATION

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

3/16/18: CONNECTOR OPTION AS ADDITIVE ALTERNATE ADDED.

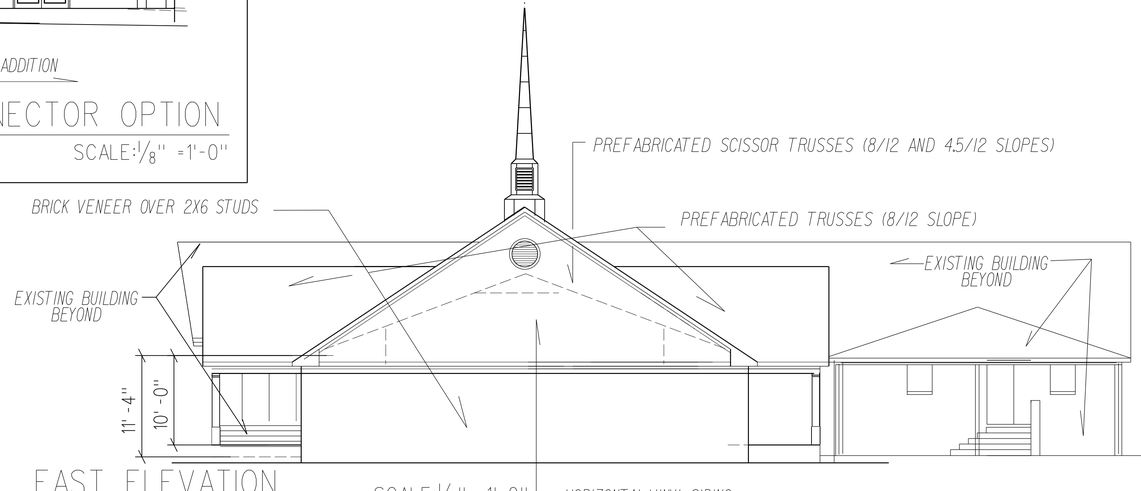


PARTIAL SOUTH ELEVATION WITH CONNECTOR OPTION

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

3/16/18 THIS ELEVATION WAS ADDED TO SHOW THE ADDITIVE ALTERNATE CONNECTOR AND THE SMALLER PORCH OVER THE EXISTING LANDING AND STEPS.

12/24/17
THIS ELEVATION WAS ADDED TO SHOW THE ADDITIVE ALTERNATE CONNECTOR AND THE SMALLER PORCH OVER THE EXISTING LANDING AND STEPS.



EAST ELEVATION

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

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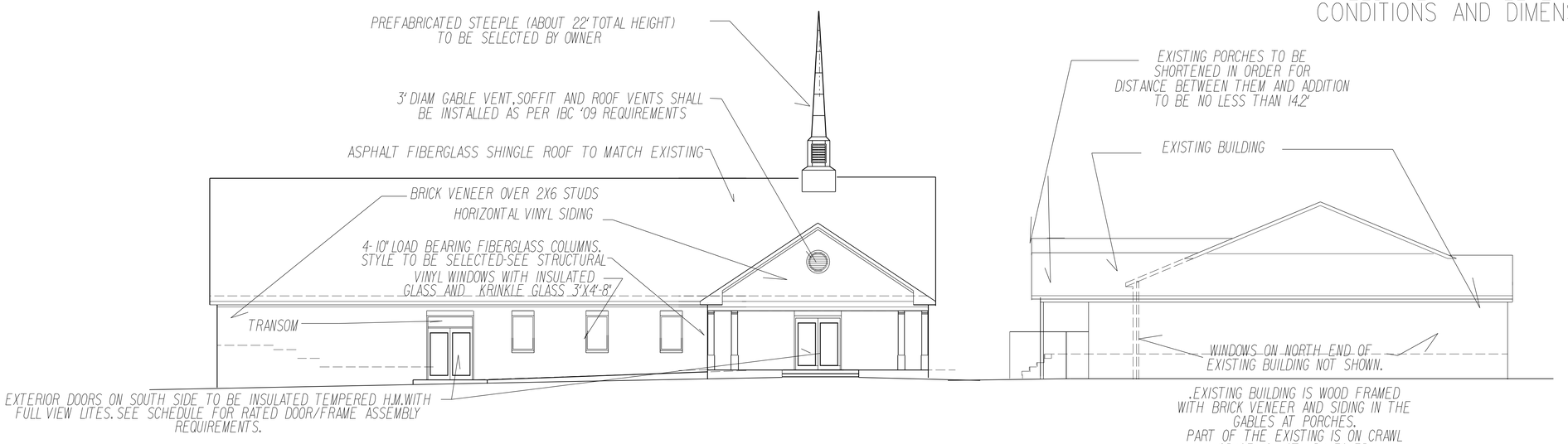
SHEET TITLE:
SOUTH AND EAST ELEVATIONS

DATE: 5/10/17

REVISIONS:
12/24/17
3/16/18

SHEET: A5 OF: 9

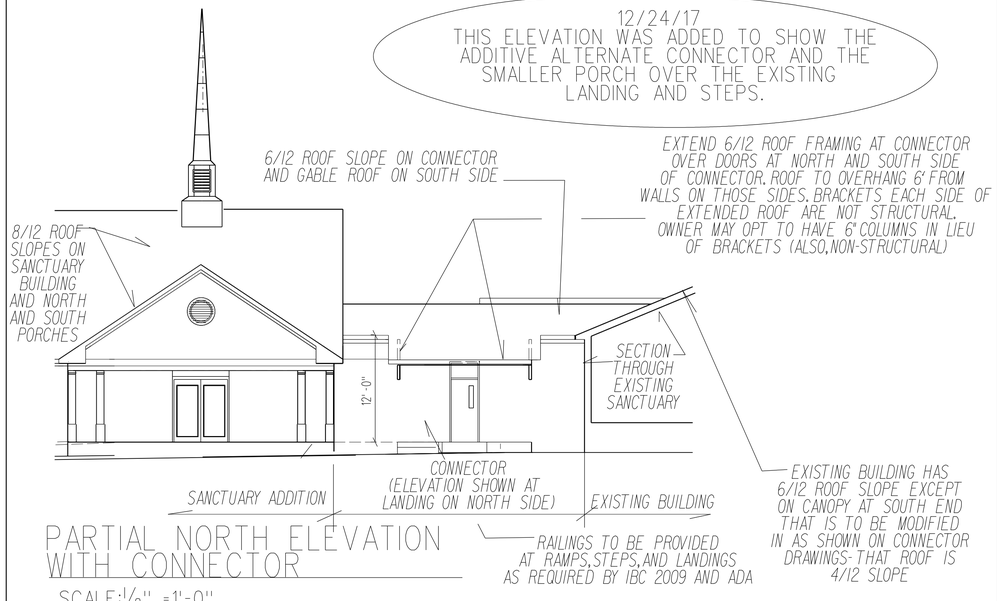
. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.



NORTH ELEVATION

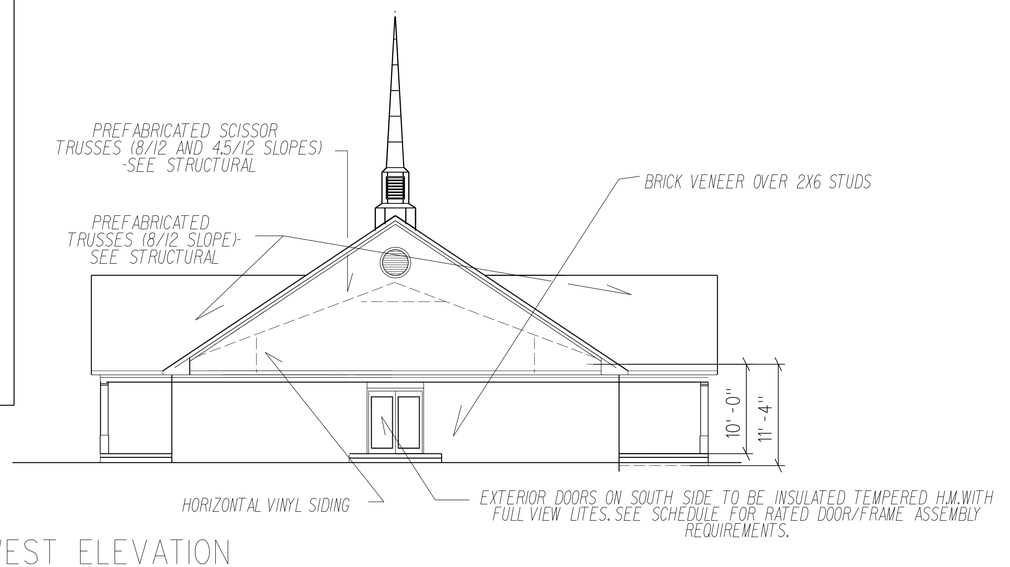
SCALE: 1/8" =1'-0"

12/24/17
THIS ELEVATION WAS ADDED TO SHOW THE ADDITIVE ALTERNATE CONNECTOR AND THE SMALLER PORCH OVER THE EXISTING LANDING AND STEPS.



PARTIAL NORTH ELEVATION WITH CONNECTOR

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



WEST ELEVATION

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

NOTE: SEE CIVIL DRAWINGS FOR ALL INFORMATION ABOUT SIDEWALKS, SETBACKS, EASEMENTS, PARKING, ETC.

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SHEET TITLE:
NORTH AND WEST ELEVATIONS

DATE: 5/10/17

REVISIONS:
12/24/17
3/16/18

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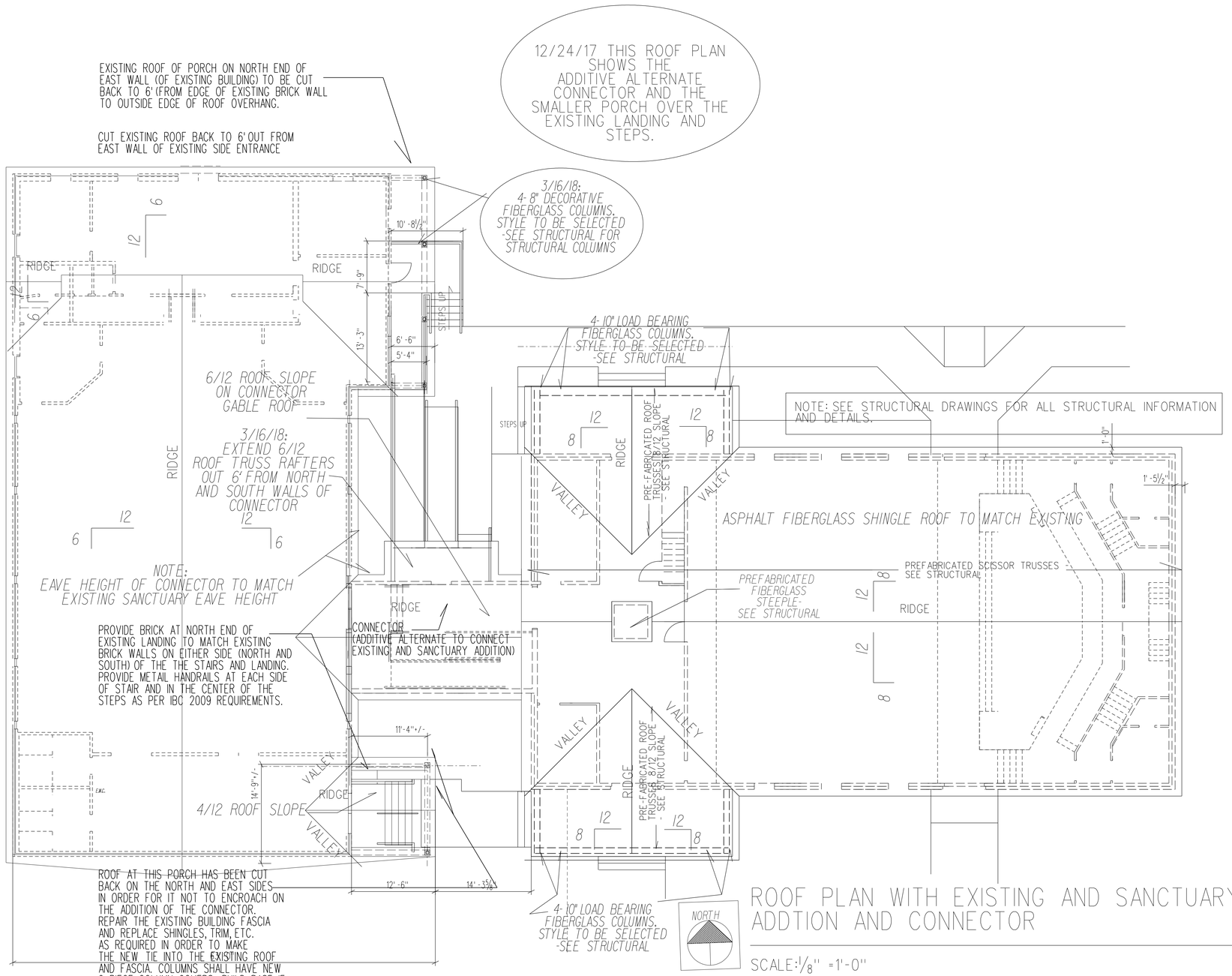

ROOF PLAN WITH EXISTING AND SANCTUARY ADDTION AND CONNECTOR

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

. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.

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NEW SANCTUARY FOR ST. ELIZABETH CPCA
104 PERRY ST.
MADISON, ALABAMA 35758

SHEET TITLE: ROOF PLAN WITH EXISTING AND SANCTUARY ADDITION AND CONNECTOR

DATE: 12/24/17

REVISIONS:
12/24/17
23/16/18

SHEET: A7 OF: 9

MEANS OF EGRESS:

ITEM	CODE REQUIREMENT	PROVIDED
NUMBER OF EXITS	2	5
TRAVEL DISTANCE	200 FEET	43 FEET
DEAD END CORRIDOR	20 FEET	0 FEET
CORRIDOR WIDTH	44 INCH MINIMUM	106 INCHES
WIDTH OF EGRESS DOORS	32 INCH MINIMUM	TOTAL EGRESS WIDTH: 360 INCHES (.2"/PERSON REQ'D 52"MIN.)

BUILDING DESCRIPTION:

. THIS BUILDING IS A-3 OCCUPANCY, TYPE VB CONSTRUCTION, UNSPRINKLERED, UNPROTECTED.
. BUILDING IS WOOD FRAMED CONSTRUCTION WITH ASPHALT FIBERGLASS SHINGLED ROOF. EXTERIOR OF THE BUILDING IS BRICK VENEER WITH VINYL IN GABLES. CONNECTOR IS WOOD STUDS/WOOD TRUSSES WITH VINYL SIDING.
. 12/7/17 REVISION:
OCCUPANCY LOAD FOR THIS BUILDING IS 290 FOR PEWS/282 FOR CHAIRS;
3/16/18: CONNECTOR AND EXISTING BUILDING HAVE OCCUPANT LOAD OF 227 (223 EXISTING BUILDING; 4 CONNECTOR)
. ALLOWABLE S.F. IS 6000 S.F. + AREA INCREASE.
ACTUAL S.F. IS 4608 + 600 FOR PORCHES= 5208.
(ARCHITECT DID NOT CALCULATE AREA INCREASE BECAUSE IT WAS NOT NEEDED.)

FIRE PROTECTION REQUIREMENTS:

BUILDING ELEMENT	FIRE RATING/ ACCESS OPENING
EXTERIOR BEARING WALLS	0
EXTERIOR NON-BEARING WALLS	0
INTERIOR BEARING WALLS	0
COLUMNS	0
BEAMS, GIRDERS, ETC.	0
FLOORS AND FLOOR/CEILING	0
ROOF AND ROOF/CEILING	0
FIREWALL	0
CORRIDOR ENCLOSURE (NONE EXIST)	1
OCCUPANCY SEPARATION	0

NOTE: REFER TO CIVIL ENGINEER'S DRAWINGS FOR FINISHED FLOOR ELEVATIONS AND FINISHED GRADES, SIDEWALKS, ETC.

NOTE ABOUT OCCUPANT LOADS:
FOYER WOULD ONLY BE FOR EXIT ACCESS AND FOR A FEW PEOPLE (9) THAT MAY BE IN THERE WHILE SANCTUARY IS OCCUPIED.
OCCUPANT LOAD FOR SANCTUARY ADDITION: 290 OR 282 DEPENDING ON PEWS OR CHAIRS
THIS NUMBER INCLUDES CHOIR, PULPIT PLATFORM, SOUND BOOTH, MECH. RM AND FOYER

NOTES ABOUT FIRE SEPARATION BETWEEN THE EXISTING AND THE ADDITION:
3/16/18: DUE TO FIRE SEPARATION DISTANCE BETWEEN EXISTING AND NEW BUILDINGS BEING LESS THAT 10' DUE TO THE PORCHES, THE WEST EXTERIOR WALL OF THE ADDITION, THE NORTH AND SOUTH EXTERIOR WALLS OF THE PORCHES SHALL HAVE 1 HR. FIRE RATINGS. THE EXTERIOR DOORS FROM FOYER SHALL BE 20 MIN. RATED ASSEMBLY DOORS/FRAMES.
A FIRE HYDRANT WAS ADDED NEAR SOUTHEAST CORNER OF ADDITION (SEE CIVIL) WHICH MAKES IT SAFER IN CASE OF A FIRE.
THE EXISTING PORCHES WILL BE CUT BACK TO 12'6" FOR SOUTH PORCH AND 6'-9" FOR NORTH PORCH GIVING 14.2' MIN. BETWEEN THE PORCHES AND THE ADDITION. . 1 HR. RATINGS AS SHOWN WILL REMAIN IN THIS CASE.
CONNECTOR WILL HAVE 2 HR. RATED WALL WITH 90 MIN. DOOR/FRAME ASSEMBLY WITH PROPER HARDWARE THAT SEPARATES THE EXISTING AND CONNECTOR FROM THE SANCTUARY ADDITION. EACH SIDE OF THE 2 HR. WALL WITHIN 4' OF IT SHALL BE 1 HR. RATED CONSTRUCTION INCLUDING ROOF DECKS. THE ENTIRE FOYER/RR AREA OF THE ADDITION SHALL HAVE 1 HR. RATED WALLS AND CEILINGS (INCLUDING THE EXTERIOR WALLS. RR. DOORS SHALL NO BE RATED. THE CONNECTOR SHALL HAVE 1 HR. RATED WALLS (U356 EXT.; U305 INT.), 1 HR CEILINGS UL P522); 2 HR. WALL UL U301 OR EQUAL.

. DOOR HARDWARE: SINCE THE OCCUPANT LOAD OF SANCTUARY IS GREATER THAN 50, ALL EXTERIOR DOORS SHALL HAVE PANIC HARDWARE (IF THERE ARE LATCHES). PROVIDE CLOSERS ON ALL EXTERIOR DOORS AS PER IBC REQUIREMENTS. ALL THRESHOLDS SHALL BE H.C. TYPE FOR ACCESSIBILITY.
. EXTERIOR DOORS ARE NOT REQUIRED TO BE PAIR OF 3' WIDE DOORS. OWNER MAY OPT TO GO TO SINGLE 36" WIDE DOORS.

. NOTES:
. SEE ELECTRICAL FOR EMERGENCY LIGHTS, EXIT SIGNS AND LIGHTS OUTSIDE OF EXITS AS REQUIRED BY ALL APPLICABLE CODES.
. SEE CIVIL FOR EXISTING FIRE HYDRANTS AND NEW ONE TO BE ADDED OUTSIDE SOUTHEAST CORNER OF ADDITION.

. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS

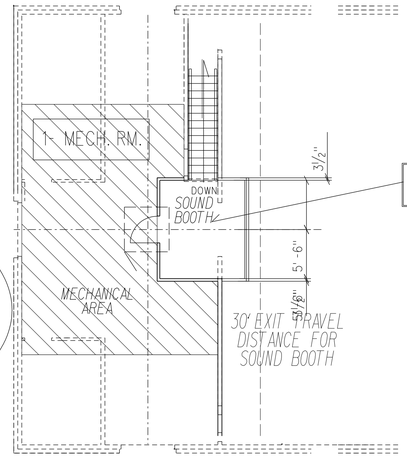
LEGEND FOR LIFE SAFETY PLAN:

- 1 HR. RATED WALLS W/ 45 MIN. OPENING PROTECTIVES. THE SHADED AREAS TO BE 1 HR. RATED CEILING ASSEMBLY. 1 HR. EXT. WALLS TO BE UL U356; 1 HR. INT. WALLS TO BE UL U305; 1 HR. CEILING AT CONNECTOR TO BE UL P522; CEILING AT FOYER UL L510
- 2HR. RATED INTERIOR UL U301 OR EQUAL UP TO ROOF DECK. 1 HR. ROOF DECK ASSEMBLY 4' EA SIDE OF 2 HR. WALL INCLUDING SOFFITS
- EXIT ACCESS TRAVEL DISTANCE. NOTE: ARCHITECT DID NOT SHOW EVERY SPACE'S TRAVEL DISTANCE BECAUSE 44' IS THE MAX. FOR BUILDING AND 200' IS ALLOWED.

3/16/18: OCCUPANCY LOAD OF EXISTING BUILDING AND CONNECTOR:
223 EXISTING BUILDING (158 FORMER SANCTUARY; 2 OFFICE; 63 SS ROOMS/EDUC) + 4 CONNECTOR (WHICH IS A HALL WITH NO PEOPLE IN IT EXCEPT TO PASS TO ANOTHER ROOM)

. THIS BUILDING SHALL MEET HANDICAPPED ACCESSIBILITY REQUIREMENTS- EXTERIOR AND INTERIOR.

12/7/17 REVISION TO OCCUPANT LOAD:
FOYER/CORRIDORS TO HAVE 9 OCCUPANT LOAD INSTEAD OF 7
DUE TO STANDING ROOM AT 5 S.F./PERSON IN 43 S.F. OF THE NON EXIT ACCESS PART OF THESE AREAS.
THE SANCTUARY SEATING WILL BE 220 IF PEWS ARE USED AND 196 IF CHAIRS ARE USED; CHOIR IS 48; PULPIT/MUSICIANS AREA IS 7; SOUND BOOTH IS 2. RECALCULATED TOTAL IS NOW
291 FOR ADDITION OR
267 IF CHAIRS ARE USED.



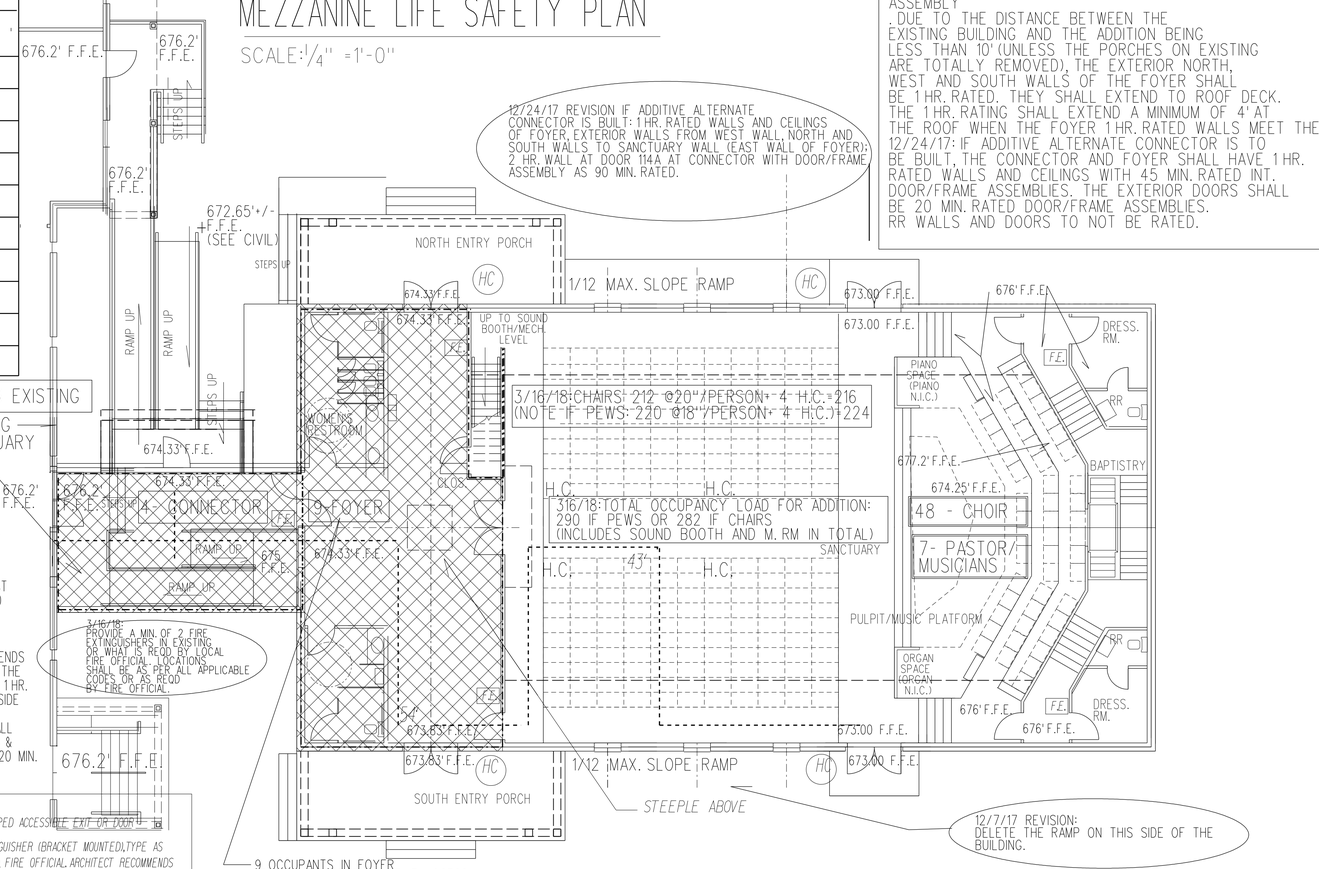
NORTH

MEZZANINE LIFE SAFETY PLAN

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

NOTES ABOUT FIRE-RATINGS:
. STORAGE UNDER STAIR TO SOUND BOOTH SHALL BE 1 HR. RATED WALLS & CEILINGS AND 20 MIN. DOOR/FRAME ASSEMBLY
. DUE TO THE DISTANCE BETWEEN THE EXISTING BUILDING AND THE ADDITION BEING LESS THAN 10' (UNLESS THE PORCHES ON EXISTING ARE TOTALLY REMOVED), THE EXTERIOR NORTH, WEST AND SOUTH WALLS OF THE FOYER SHALL BE 1 HR. RATED. THEY SHALL EXTEND TO ROOF DECK. THE 1 HR. RATING SHALL EXTEND A MINIMUM OF 4' AT THE ROOF WHEN THE FOYER 1 HR. RATED WALLS MEET THE ROOF.
12/24/17: IF ADDITIVE ALTERNATE CONNECTOR IS TO BE BUILT, THE CONNECTOR AND FOYER SHALL HAVE 1 HR. RATED WALLS AND CEILINGS WITH 45 MIN. RATED INT. DOOR/FRAME ASSEMBLIES. THE EXTERIOR DOORS SHALL BE 20 MIN. RATED DOOR/FRAME ASSEMBLIES.
RR WALLS AND DOORS TO NOT BE RATED.

12/24/17 REVISION IF ADDITIVE ALTERNATE CONNECTOR IS BUILT: 1 HR. RATED WALLS AND CEILINGS OF FOYER, EXTERIOR WALLS FROM WEST WALL, NORTH AND SOUTH WALLS TO SANCTUARY WALL (EAST WALL OF FOYER); 2 HR. WALL AT DOOR 114A AT CONNECTOR WITH DOOR/FRAME ASSEMBLY AS 90 MIN. RATED.



3/16/18: PROVIDE A MIN. OF 2 FIRE EXTINGUISHERS IN EXISTING OR WHAT IS REQ'D BY LOCAL FIRE OFFICIAL. LOCATIONS SHALL BE AS PER ALL APPLICABLE CODES OR AS REQ'D BY FIRE OFFICIAL.

SYMBOLS:
HC - HANDICAPPED ACCESSIBLE EXIT OR DOOR
F.E. FIRE EXTINGUISHER (BRACKET MOUNTED), TYPE AS REQUIRED BY LOCAL FIRE OFFICIAL. ARCHITECT RECOMMENDS 10#-A FIRE EXTINGUISHERS. LOCATIONS SHOWN ON PLAN. FIRE CLASS WOULD BE "A". MAXIMUM DISTANCE BETWEEN FIRE EXTINGUISHERS TO BE 75'.

RAILINGS:
. NO RAILINGS REQUIRED AT EXTERIOR DUE TO BEING LESS THAN 30" ABOVE FINISHED GRADE. RAMP HAS A RISE OF 17".
. PROVIDE RAILINGS AS PER IBC 2009 ON EACH SIDE OF STAIR TO SOUND BOOTH AND AT STAIRS TO BAPTISTRY.

NEW SANCTUARY LIFE SAFETY PLAN WITH CONNECTOR OPTION

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

NORTH

THE DESIGN FIRM

THE DESIGN FIRM . ANITA DENSON - ARCHITECT . adenson09@gmail.com
102 ASHWOOD DRIVE . DECATUR, AL. 35603 . 256-318-4690/256-351-0435

NEW SANCTUARY FOR ST. ELIZABETH CPCA
104 PERRY ST.
MADISON, ALABAMA 35758

SHEET TITLE:
1ST FLOOR AND MEZZANINE LIFE SAFETY PLANS

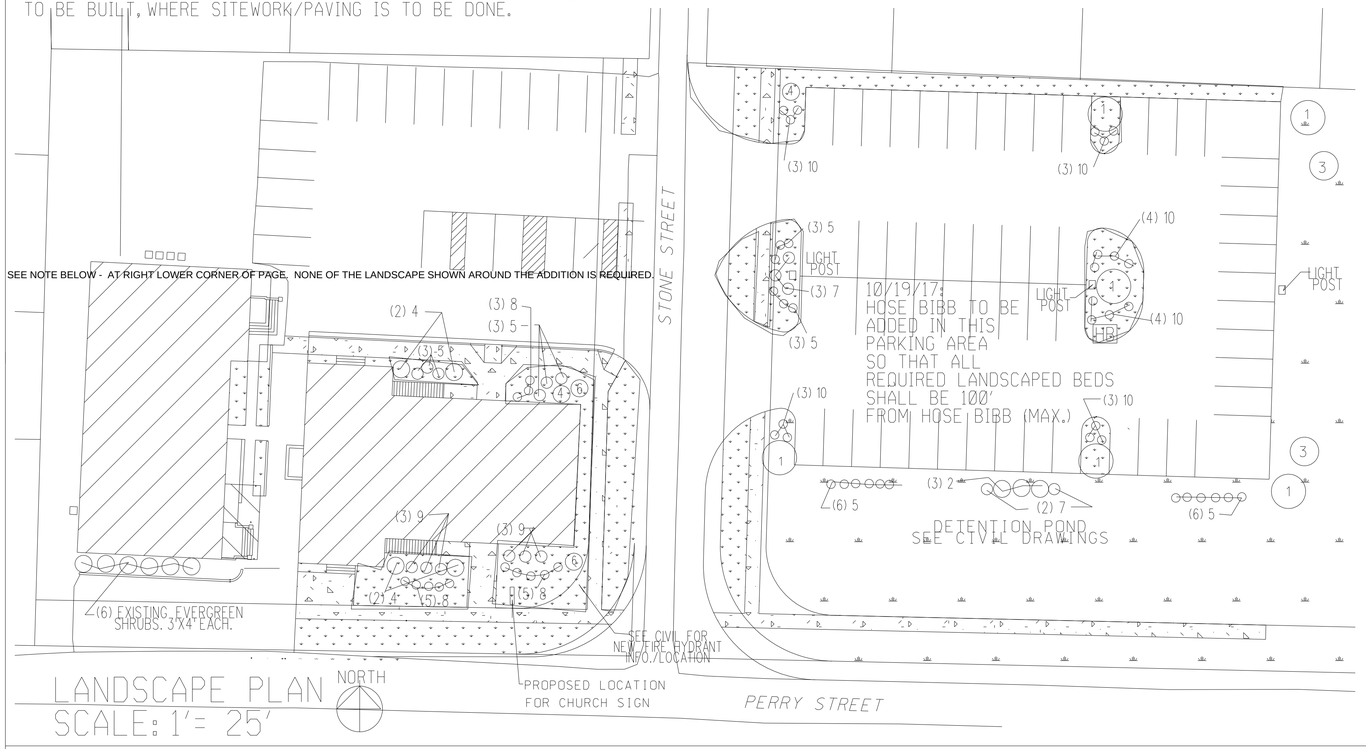
DATE: 5/10/17

REVISIONS:
12/7/17
12/24/17
3/16/18

SHEET: LS1

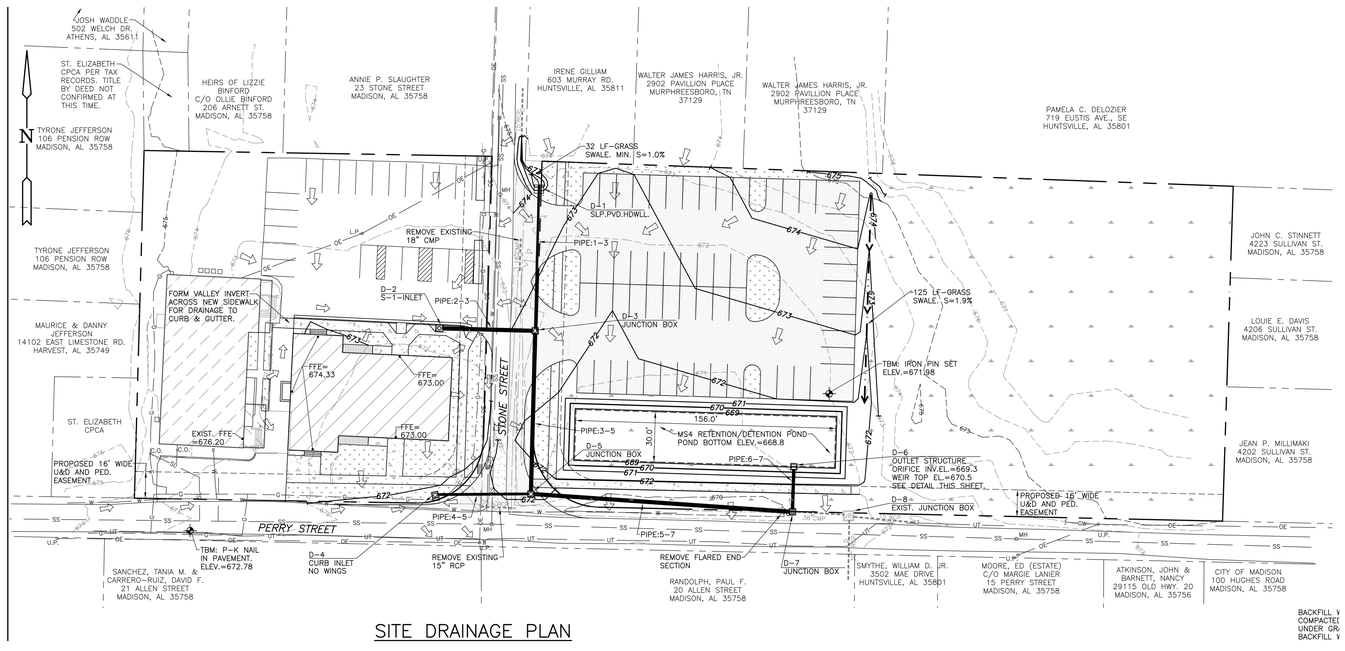
OF: 1

. ALL LANDSCAPING SHALL BE AS PER MADISON, AL. LANDSCAPE ORDINANCE.
. EXISTING TREES AND SHRUBS SHALL BE REMOVED WHERE THE ADDITION IS TO BE BUILT, WHERE SITEWORK/PAVING IS TO BE DONE.



LANDSCAPE PLAN
SCALE: 1'= 25'

LANDSCAPE DRAWING WAS PREPARED BY THE DESIGN FIRM. CIVIL INFORMATION IS FROM THE CIVIL ENGINEER'S DRAWINGS. PLEASE SEE OTHER CIVIL DRAWINGS FOR INFORMATION, DETAILS, ETC. NOT SHOWN HERE.



SITE DRAINAGE PLAN

NO SCALE (REDUCED FROM ORIGINAL DRAWING BY CIVIL ENGINEER)

. OWNER CONTACT:
MR. FRANKLIN FLETCHER 13/32 BUILDING COMM. CHAIRMAN
fdfletcher2@me.com
Cell: 256-656-1921; Home: 256-772-9418
. GENERAL CONTRACTOR: BOYETT CONSTRUCTION INC.
willard boyett; wboyett@boyettconstruction.net
256-974-6750
. ARCHITECT:
THE DESIGN FIRM; ANITA DENSON
(CELL.: 256-318-4690; PH.: 256-351-0435; ADENSON09@GMAIL.COM; 102 ASHWOOD DR. . DECATUR, AL. 35603)
. CIVIL ENGINEER:
VICE ENGINEERING & SURVEYING
HARRY C VICE, JR. (PH.: 256-612-1501; HVICE@BELLSOUTH.NET; 1506 MARKS DR.; HARTSELLE, AL. 35640)

PLANT LIST: (MADISON IS ZONE 7B)
1 - LITTLE GEM MAGNOLIA; QTY: 6; SIZE 1½" CALIPER; 5 GAL
(MAGNOLIA GRANDIFLORA 'LITTLE GEM')
2 - HOLLY 'DWARF BURFORD'; QTY: 3; SIZE 2 GAL. (5X5E)
ILEX CORNUTA 'DWARF BURFORD'
3 - PURPLE-LEAF SAND CHERRY; QTY: 2; SIZE 2 GAL. (12X6)
PRUNUS X CISTENA
4 - KOREAN BOXWOOD WINTERGREEN; QTY: 5; SIZE 2 GAL
BUXUS MICROPHYLLA KOREANA WINTERGREEN - THESE ARE WEST OF STONE ST. AND NOT REQUIRED.
5 - SOFT TOUCH COMPACT HOLLY; QTY: 12; 1 GAL. (3X3 E)
ILEX CRENATA 'SOFT TOUCH'
6 - EMERALD GREEN ARBORTAE (THUJA); QTY: 2; 5 GAL. (15X4E)
THUJA OCCIDENTALIS 'SMARAGD'; THESE ARE WEST OF STONE ST. AND NOT REQUIRED.
7 - DWARF YEDDA HAWTHORN; QTY: 5; 1 GAL. (5X5E)
RHAPHIOLEPIS UMBELLATA 'MINOR'
8 - HELLERI HOLLY; QTY: 19 ; 1 GAL (3X4E)
ILEX CRENATA HELLERI; THESE ARE WEST OF STONE ST. AND NOT REQUIRED.
9 - GOLDEN GLOBE DWARF ARBORVITAE; QTY: 6; 3 GAL (4X4E)
THUJA OCCIDENTALIS 'GOLDEN GLOBE'; THESE ARE WEST OF STONE ST. AND NOT REQUIRED.
10 - DWARF YAUPON OR SCHILLINGS HOLLY; QTY: 20; 1 GAL. (3'X4' E)
ILEX VOMITORIA 'STOKE'S DWARF'

SITE LANDSCAPING CALCULATIONS:
ZONING: R2
TOTAL PARKING SPACES: 56
(NOTE: THERE ARE 19 WEST OF STONE STREET BUT THAT IS LESS THAN 6000 S.F. SO NO LANDSCAPE REQUIREMENTS.)

INTERIOR LANDSCAPING:
55 PARKING SPACES X 18 / 200= 5 TREES;
SHRUBS= 5 TREES X 4= 20 SHRUBS

PERIMETER LANDSCAPING:
156 LF /50= 3 TREES;
SHRUBS = TREES X 6= 20 SHRUBS

TOTAL REQUIRED SHRUBS: 39;
TOTAL TREES: 8

TOTAL PROVIDED (EAST OF STONE STREET):
40 SHRUBS; 8 TREES

NOTES:
. INSTALLATION SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES AND STANDARDS.
. THERE SHALL BE HOSE BIBB WITHIN 100' OF ALL LANDSCAPED AREAS OR UNDERGROUND SPRINKLER SYSTEM SHALL BE PROVIDED.
. SHRUBS WEST OF STONE STREET ARE OPTIONAL.
. SEE CIVIL FOR INFORMATION ON LANDSCAPE REQUIREMENTS AS TO WHAT IS REQUIRED FOR DRAINAGE.
. G.C. SHALL PROVIDE AN ALLOWANCE FOR LANDSCAPING WEST OF STONE STREET FOR SHRUBS AROUND THE NEW AND EXISTING BUILDINGS.

10/19/17 REVISIONS:
. CLARIFICATIONS WERE MADE AS TO INTERIOR AND PERIMETER LANDSCAPING REQUIREMENTS. NO TREES AND SHRUBS REQUIRED WEST OF STONE ST. BUT ARE SUGGESTED.
. HOSE BIBB(S) WILL BE ADDED SO THAT THERE WILL BE A HOSE BIBB WITHIN 100' OF EACH LANDSCAPED AREA.
. NOTES WERE ADDED ALSO.

THE DESIGN FIRM

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104 PERRY ST.
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THE DESIGN FIRM . ANITA DENSON - ARCHITECT . adenson09@gmail.com
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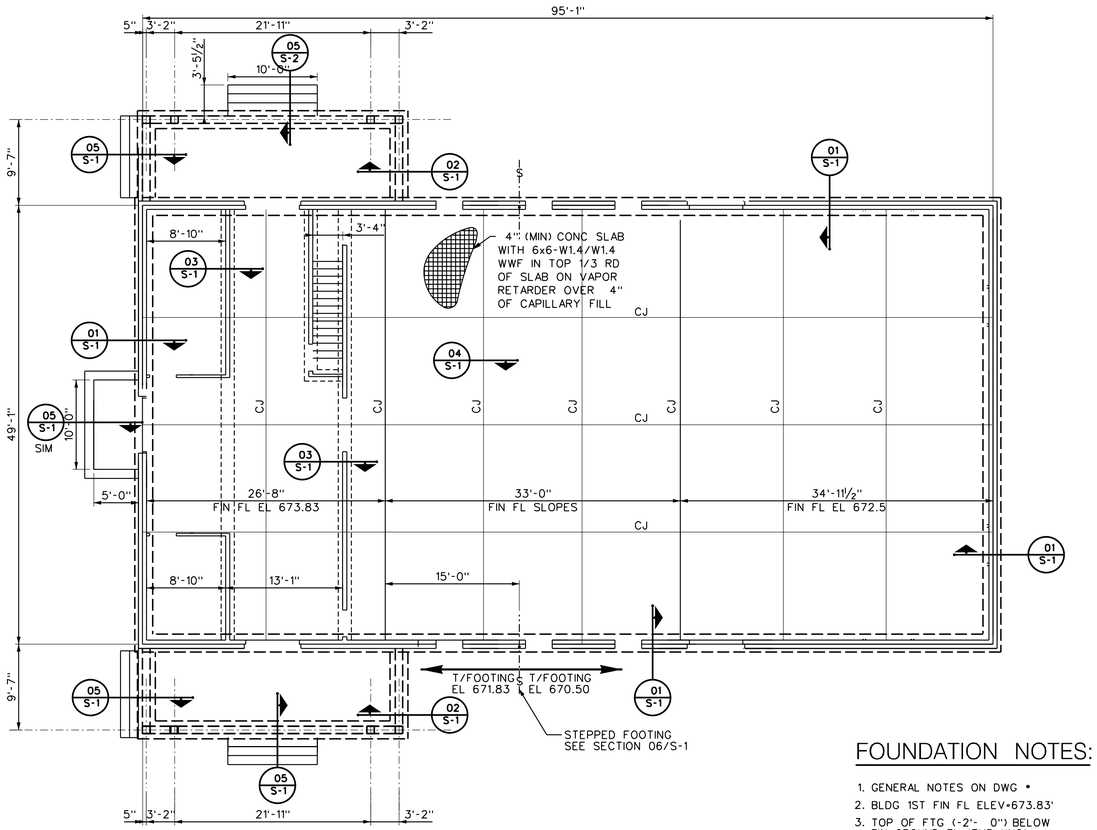
STATE OF ALABAMA
ANITA JOHNSON DENSON
3519
2/15/18
REGISTERED ARCHITECT

SHEET TITLE:
LANDSCAPE PLAN

DATE: 5/10/17

REVISIONS:
10/19/17

SHEET: L1 OF: 1

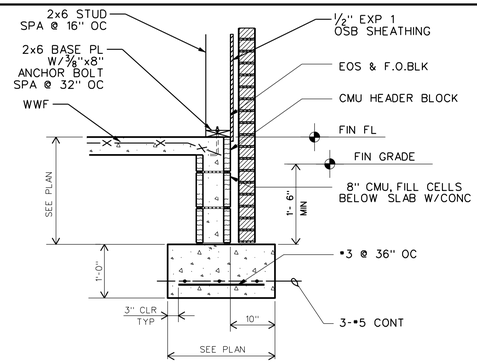


FOUNDATION PLAN

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

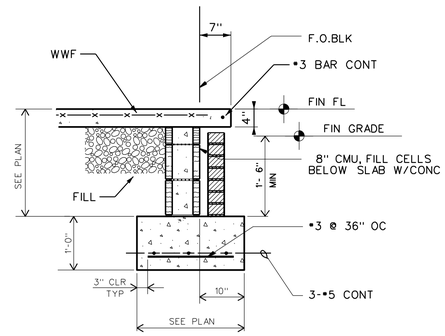
FOUNDATION NOTES:

1. GENERAL NOTES ON DWG •
2. BLDG 1ST FIN FL ELEV=673.83'
3. TOP OF FTG (-2'- 0") BELOW FIN GROUND FL (TYP UNO)
4. IF MAIN SLAB IS LESS THAN 6" THICK, THICKENED SLAB SHALL OCCUR UNDER ALL NON-LOAD BEARING CMU WALLS. (UNO) REFER TO THICKENED SLAB SECTION (FOR WALLS) ON DWG •S-1 .



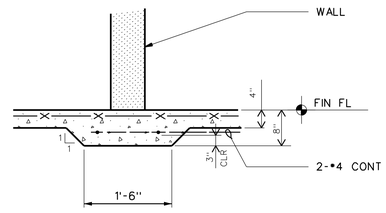
01/S-1 EXT WALL FTG SECTION

¾" = 1'-0"



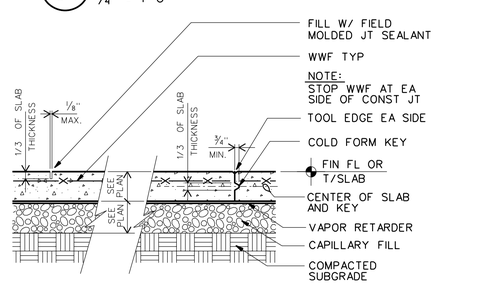
02/S-1 EXT WALL FTG SECTION

¾" = 1'-0"



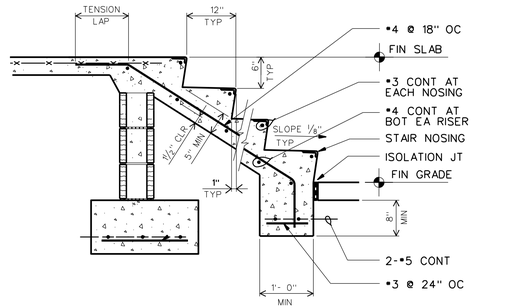
03/S-1 THICKENED SLAB SECTION

¾" = 1'-0" (FOR WALLS)



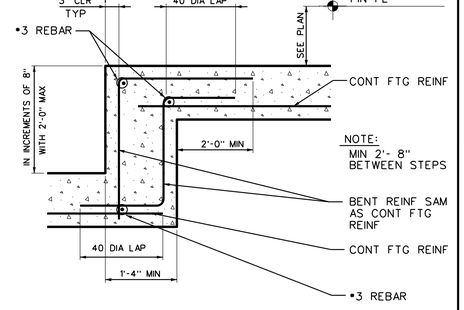
04/S-1 CONTROL / CONST JT DETAIL

NOT TO SCALE (NOTED ON PLAN BY - C.J.)



05/S-1 CONC STAIR SECTION

¾" = 1'-0"



06/S-1 STEPPED FTG SECTION

NOT TO SCALE (NOTED ON PLAN BY - $)

Qualls Engineering
3311 Bob Wallace Ave Suite 201
Huntsville, Alabama 35805
Telephone (256) 551-0407

ALABAMA REGISTERED NO. 16180 PROFESSIONAL ENGINEER JAMES GREGORY QUALLS

APR 18, 2016

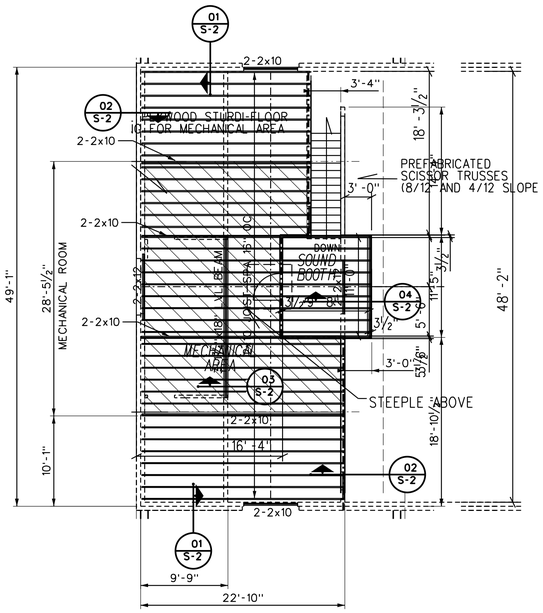
NEW SANCTUARY FOR ST. ELIZABETH CPCA
104 PERRY ST.
MADISON, ALABAMA 35758

REVISIONS

JOB NO. 1607
DRAWN JGQ
CHECKED JGQ
REVIEWED
DATE APR 18, 2016

S-1
OF
3

OF



MEZZANINE FRAMING PLAN

SCALE: ⅛ " = 1'-0"

GENERAL NOTES

1. GENERAL
1.1 DESIGN CRITERIA:
A. CODES:
A.1 INTERNATIONAL BUILDING CODE 2009
A.2 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318).
A.3 SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, (AISC LATEST EDITION).
B. DESIGN LIVE LOADS (PSF):
ROOF.....20
MECHANICAL MEZZANINE.....20
C. LATERAL FORCES:
WIND: WIND VELOCITY = 90 MPH
IMPORTANCE FACTOR Is = 1.0
EXPOSURE CATEGORY = B
SEISMIC: IBC 2009
SDs = 25.7
SD1 = 10.7
IMPORTANCE FACTOR Is = 1.0
SITE CLASS = D

1.2 SUBMIT 5 COPIES OF SHOP DRAWINGS FOR REVIEW.
1.3 ALL DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS, UNLESS NOTED.
1.4 THE MORE CONSERVATIVE APPROACH TO BUILDING SHALL BE USED IN THE EVENT OF DISCREPANCIES BETWEEN THE ARCHITECTURAL DRAWINGS, THESE DRAWINGS AND THE SPECIFICATIONS.

2. FOUNDATION
2.1 MAXIMUM BEARING PRESSURES (PSF)(ASSUMED):
SPREAD FOOTINGS.....2,000
CONTINUOUS FOOTINGS.....2,000
2.2 SOIL CONDITIONS ARE ASSUMED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT THE SOILS AERE SUITABLE FOR CONSTRUCTION
2.3 REMOVE ALL ORGANIC AND UNSUITABLE MATERIAL PRIOR TO PLACING FILL. PLACE FILL IN HORIZONTAL LAYERS NOT TO EXCEED 8 INCHES IN LOOSE THICKNESS AND COMPACT TO A MINIMUM OF 98% STANDARD PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT. IF ACCEPTABLE TO THE OWNER'S GEOTECHNICAL ENGINEER, ON-SITE MATERIALS THAT MEET PROJECT SPECIFICATION REQUIREMENTS MAY BE USED FOR ENGINEERED FILL IF MAINTAINED AT OPTIMUM MOISTURE CONTENT AND COMPACTED TO THE ABOVE CRITERIA. SELECT BORROW MATERIALS WILL BE REQUIRED WHEN ON-SITE MATERIALS ARE UNSUITABLE OR CANNOT BE COMPACTED TO THE CRITERIA STATED ABOVE.
2.4 PROVIDE POSITIVE PROTECTION FOR ALL EXCAVATION SLOPES AGAINST INSTABILITY AND DETERIORATION DUE TO RAIN OR WIND.
2.5 ALLOW THE OWNER'S GEOTECHNICAL ENGINEER TO INSPECT ALL FINISHED EXCAVATIONS AND BEARING SUBGRADES BEFORE PLACING CONCRETE.
2.6 USE SIDE FORMS FOR ALL FOOTINGS AND GRADE BEAMS. CLEAN REINFORCEMENT IMMEDIATELY PRIOR TO PLACING CONCRETE. PLACE THE CONCRETE FOR EACH FOOTING IN ONE CONTINUOUS POUR.

3. CONCRETE
3.1 CONCRETE (MINIMUM) COMPRESSIVE STRENGTH AT 28 DAYS:
3000 PSI.....SLABS ON GRADE AND FOUNDATIONS.
3.2 MIX DESIGN SUBMITTALS SHALL INCLUDE (BUT ARE NOT LIMITED TO) IDENTIFICATION OF WHAT APPLICATION THE PROPOSED DESIGN MIX IS TO BE USED FOR, DESIGN STRENGTH IN PSI, RANGE OF SLUMP IN INCHES, AND LABORATORY TEST REPORTS OR EVALUATION REPORTS FOR CONCRETE MATERIALS AND CONCRETE MIX DESIGNS.
3.3 REINFORCING BARS: ASTM A615 GRADE 60.
3.4 WELDED WIRE FABRIC (WWF): ASTM A185
3.5 REINFORCING BAR PLACING ACCESSORIES IN ACCORDANCE WITH ACI MANUAL OF STANDARD PRACTICE. WHERE CONCRETE IS EXPOSED IN FINISHED BUILDING, PROVIDE ACCESSORIES WITH RUSTPROOF LEGS.
3.6 DETAIL REINFORCING IN ACCORDANCE WITH ACI 315. REINFORCING SHALL NOT BE WELDED UNLESS NOTED OR APPROVED BY THE ENGINEER.
3.7 LAP SPLICE ALL REINFORCING EXCEPT NO. 14 AND NO. 18 BARS A MINIMUM OF 30 BAR DIAMETERS BUT NOT LESS THAN 1'-6", UNLESS NOTED.
3.8 CONCRETE COVERAGE OF REINFORCEMENT:
FOOTINGS.....3" BOTTOM & SIDES
CONCRETE EXPOSED TO EARTH OR WEATHER...2"
OTHER CONCRETE.....1 1/2"
3.9 EARTH SUPPORTED SLABS: SEE DRAWINGS
3.10 CONCRETING OPERATIONS SHALL COMPLY WITH ACI STANDARDS.

5 WOOD TRUSSES
5.1 WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE TRUSS PLATE INSTITUTE (TPI) AS FOLLOWS (BUT NOT LIMITED TO):
TPI-85 - "DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES"
PCT-80 - "DESIGN SPECIFICATION FOR METAL PLATE CONNECTED PARALLEL CHORD WOOD TRUSSES"
HIB-91 - "COMMENTARY AND RECOMMENDATIONS FOR HANDLING, INSTALLING & BRACING METAL PLATE CONNECTED WOOD TRUSSES"
5.2 ALL TRUSSES SHALL BE DESIGNED AND SEALED BY A QUALIFIED ENGINEER REGISTERED IN THE STATE OF ALABAMA. ALL DESIGN CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW BEFORE MANUFACTURE.
5.3 STRESS GRADE SAWN LUMBER SHALL CONFORM TO NATIONAL SPECIFICATIONS FOR KILN DRIED NO.2 SOUTHERN PINE WITH ALLOWABLE STRESS VALUES OF 1300 PSI IN BENDING AND A MODULUS OF ELASTICITY OF 1600 PSI.
5.4 ROOF TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOADS:
TOP CHORD DEAD LOAD.....10 PSF
TOP CHORD LIVE LOAD.....20 PSF
BOTTOM CHORD DEAD LOAD.....10 PSF
5.5 CONTRACTOR SHALL NOTE THAT THE FRAMING IS NON-SELF SUPPORTING AND SHALL PROVIDE ADEQUATE TEMPORARY BRACING AS NEEDED. (REFER TO HIB-91, SEE NOTE 6.1 ABOVE)

6 WOOD FRAMING NOTES
6.1 VISUAL GRADE SAWN LUMBER SHALL CONFORM TO NATIONAL SPECIFICATIONS FOR KILN DRIED NO. 2 SOUTHERN PINE WITH ALLOWABLE STRESS VALUES OF 1300 PSI IN BENDING AND A MODULUS OF ELASTICITY OF 1600 KSI.
6.2 PROVIDE BRIDGING IN FLOOR AND ROOF IN ACCORDANCE WITH APPLICABLE CODES AND AS SHOWN ON THE DRAWINGS.
6.3 DESIGN AND DETAILING OF CONNECTIONS SHALL CONFORM TO THE NATIONAL DESIGN AND SPECIFICATIONS FOR STRESS GRADE LUMBER AND ITS FASTENINGS AS RECOMMENDED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION.
6.4 MAKE ALL CUTS TRUE AND SQUARE FOR FULL BEARING AT STRUCTURAL JOINTS.
6.5 BOLT HOLES AND PLATES TO BE PLACED AS SHOWN ON THE DETAILS. PROVIDE SPECIFIED SPACING, EDGE AND END DISTANCES.
6.6 CONNECT ALL FRAMING SECURELY TOGETHER WITH NAILS, SPIKES OR FRAMING ANGLES.
6.7 ALL METAL CONNECTOR AND ANCHOR DESIGNATIONS SHOWN ON THE DRAWINGS ARE FOR SIMPSON STRONG-TIE CONNECTORS. NAIL AS PER MANUFACTURER'S SCHEDULE.

REQUIRED INSPECTIONS

INSPECTION	FREQUENCY	COMMENTS
REBAR PLACEMENT	BEFORE PLACING CONCRETE	
CONCRETE	50 YDS	4 CYLINDERS/SET MIN 1 SET PER POUR
CONCRETE DESIGN MIX	1 PER MIX	
BOLTS	10% OF BOLTS ¾" OR LARGER	TURN NUT OF METHOD
EPOXY ADHESIVE	EA. BOLT	PULL OUT TEST IN ACCORDANCE WITH ASTM

LINTEL SCHEDULE

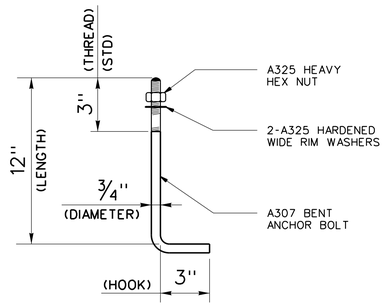
MASONRY OPENING WIDTH		STEEL LINTEL
MIN	MAX	ANGLE FOR EA 4" WALL THICKNESS
----	2'-0"	L 3½x3x¼
2'-0"	3'-6"	L 3½x3x¼
3'-6"	5'-0"	L 3½x3x5⁄16
5'-0"	6'-6"	L 4x3½x¼
6'-6"	8'-0"	L 5x3½x¼
8'-0"	10'-0"	L 6x3½x5⁄16
10'-0"	12'-0"	L 6x4x⅜

SCHEDULE NOTES:
NOTE •1: HAVE A MINIMUM 8" BEARING EACH END.
NOTE •2: STEEL LINTELS ARE TO BE GALVANIZED.

HEADER SCHEDULE

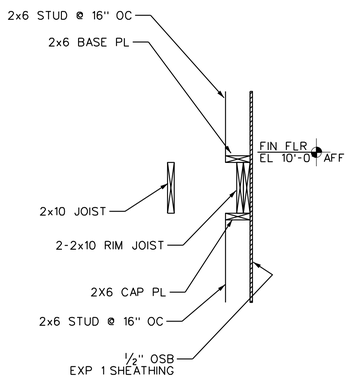
MK•	OPENING WIDTH		WOOD SIZE
	MIN	MAX	
	2'-0"	6'-0"	3-2x8
	6'-0"	10'-0"	3-2x12

SCHEDULE NOTES:
NOTE •1: HAVE A MINIMUM 8" BEARING EACH END.
NOTE •2: HEADER MAY REQUIRE PLYWOOD SPACER TO MATCH WALL THICKNESS.

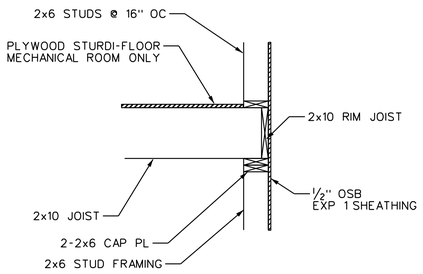


ANCHOR BOLT DETAIL 01

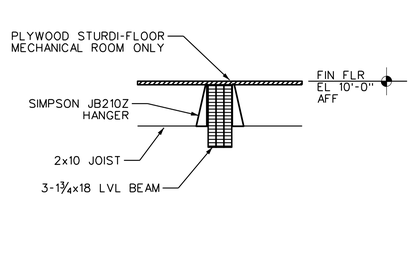
NO SCALE



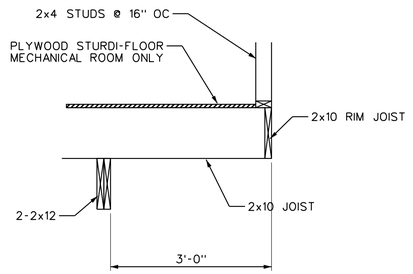
01 S-2 SECTION
SCALE: ¾ " = 1'-0"



02 S-2 SECTION
SCALE: ¾ " = 1'-0"



03 S-2 SECTION
SCALE: ¾ " = 1'-0"



04 S-2 SECTION
SCALE: ¾ " = 1'-0"

Qualls Engineering
3311 Bob Wallace Ave Suite 201
Huntsville, Alabama 35805
Telephone (256) 551-0407

ALABAMA REGISTERED NO. 16180 PROFESSIONAL ENGINEER GREGORY QUALLS

APR 18, 2016

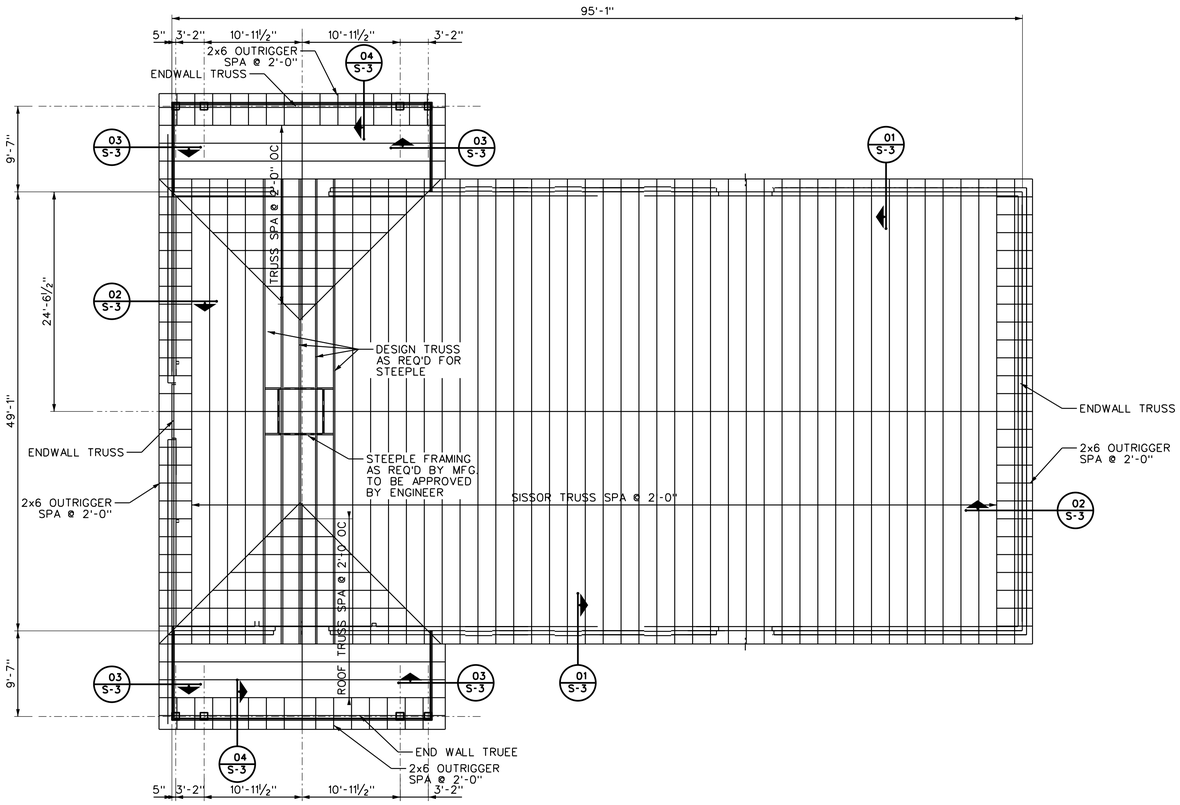
NEW SANCTUARY FOR ST. ELIZABETH CPCA
104 PERRY ST.
MADISON, ALABAMA 35758

REVISIONS

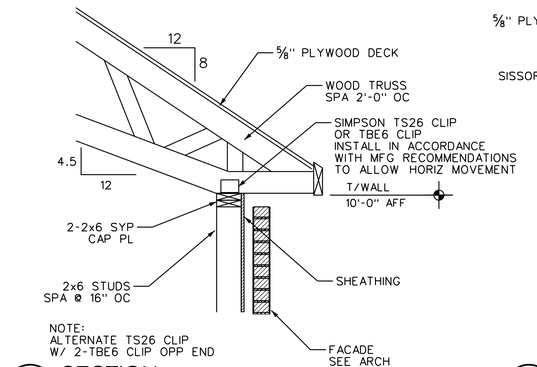
JOB NO. 1607
DRAWN JGQ
CHECKED JGQ
REVIEWED
DATE APR 18, 2016

S-2
OF
3

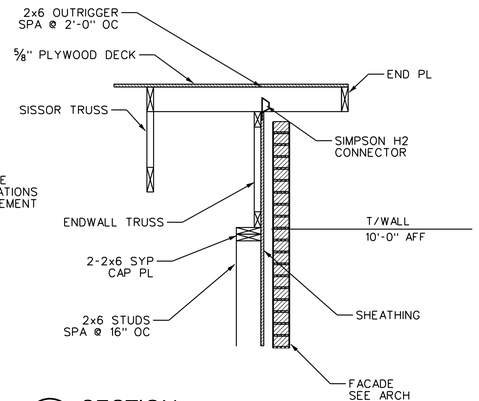
OF



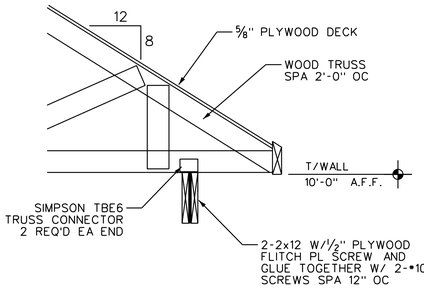
ROOF FRAMING PLAN
SCALE: 1/8 " = 1'-0"



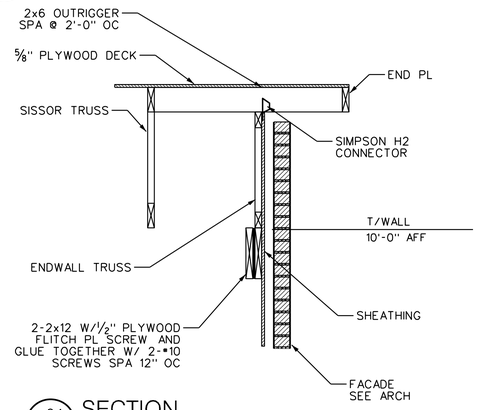
01 S-3 SECTION
SCALE: 3/4 " = 1'-0"



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



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



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

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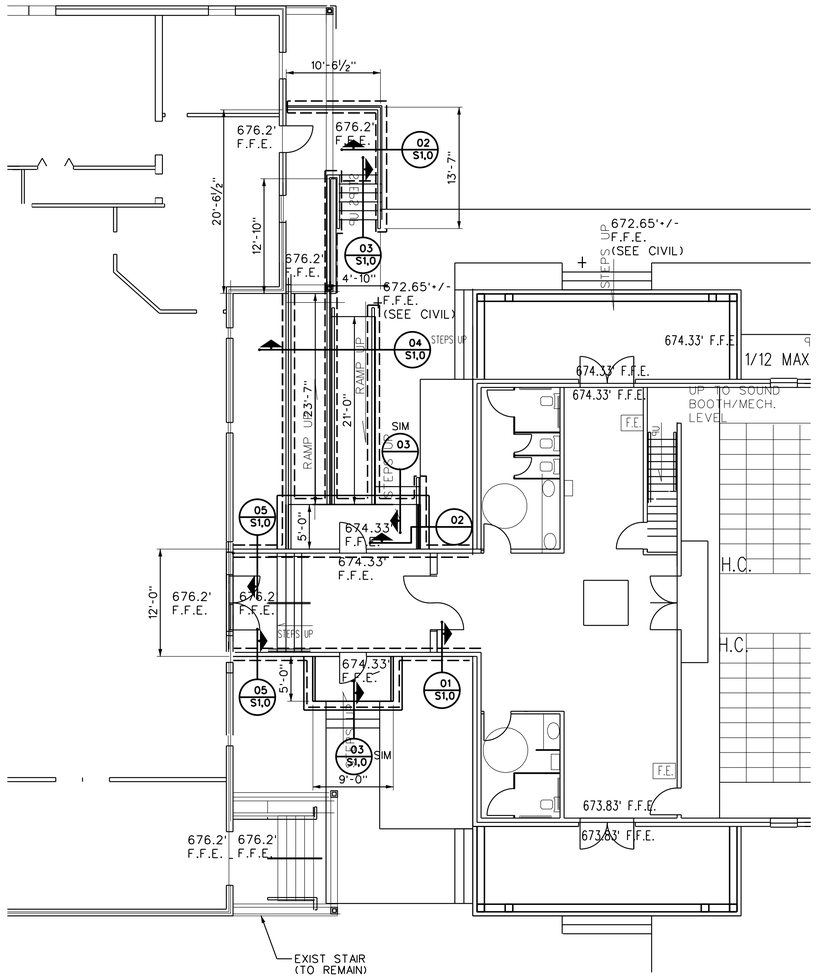
S-3
OF
3

OF

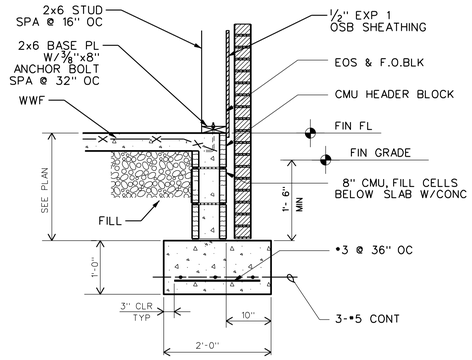


FOUNDATON PLAN

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

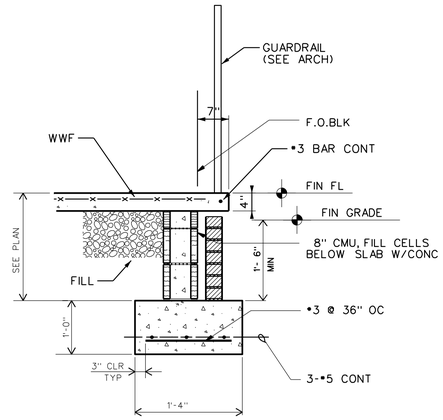
FOUNDATION NOTES:

1. GENERAL NOTES ON DWG •S2.0
2. BLDG 1ST FIN FL ELEV•673.83'
3. TOP OF FTG (-2'- 0") BELOW FIN GROUND FL (TYP UNO)



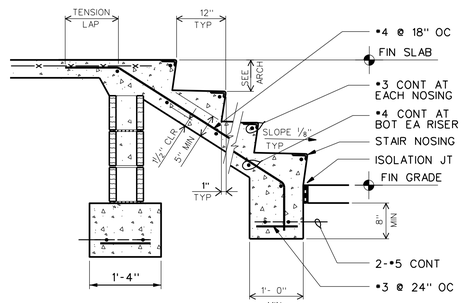
01 S1.0 SECTION

¾" = 1'-0"



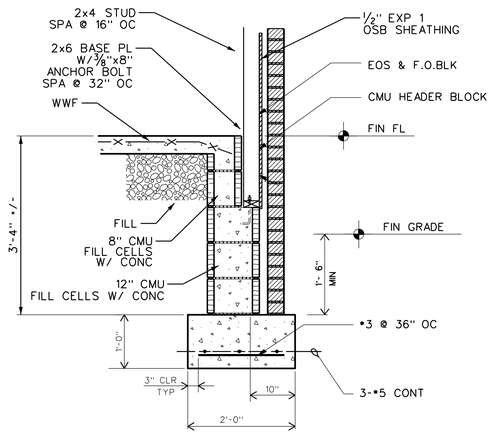
02 S1.0 SECTION

¾" = 1'-0"



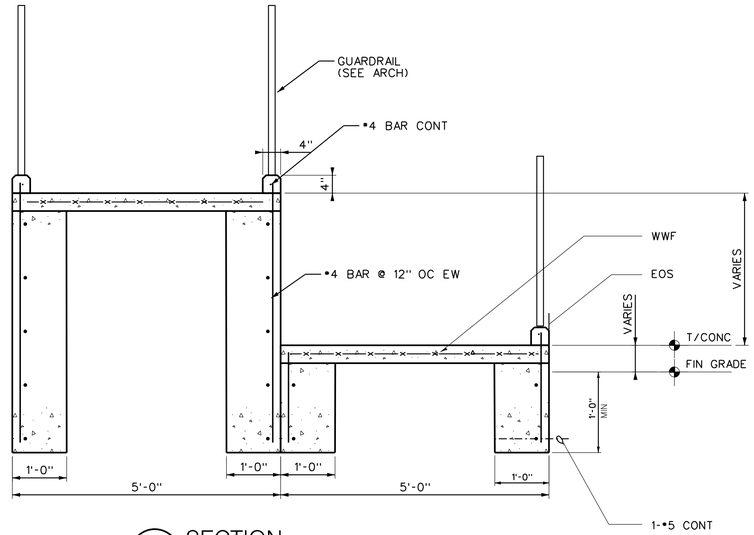
04 S1.0 CONC STAIR SECTION

¾" = 1'-0"



05 S1.0 SECTION

¾" = 1'-0"



05 S1.0 SECTION

¾" = 1'-0"

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2-22-18

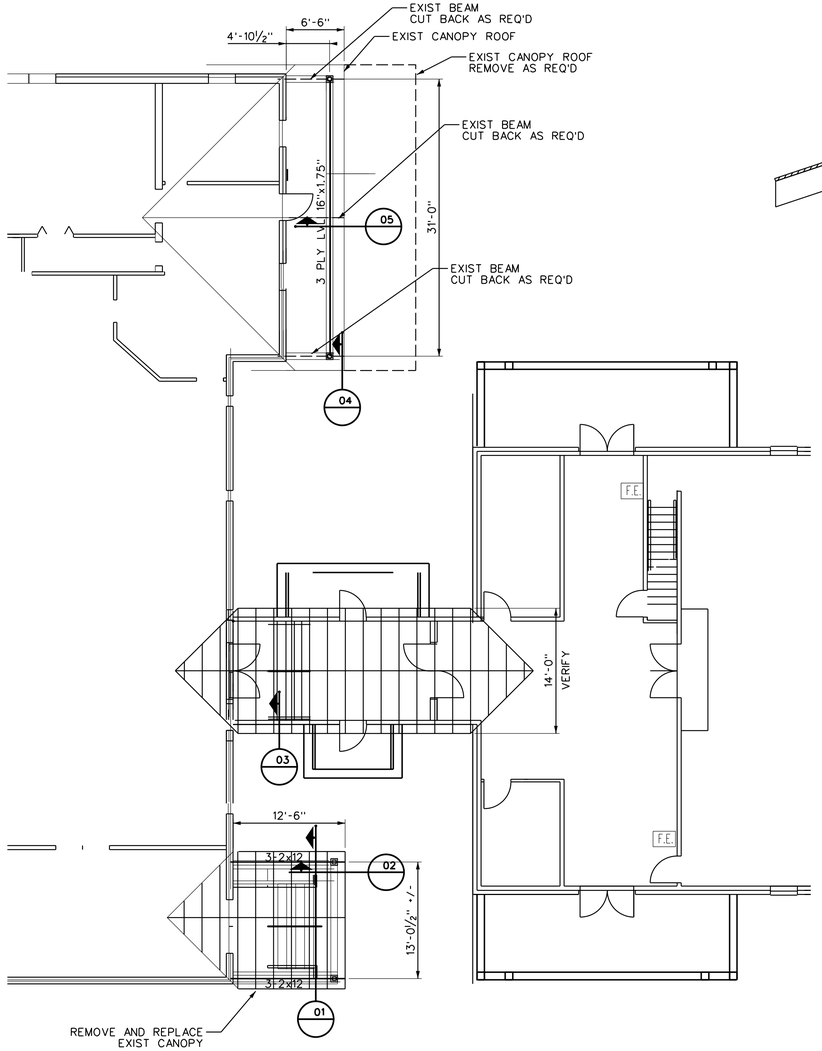
CONNECTING CORRIDOR FOR
ST. ELIZABETH CPCA
MADISON, ALABAMA 35758

REVISIONS

JOB NO. 1802
DRAWN JGQ
CHECKED JGQ
REVIEWED
DATE FEB 22, 2018

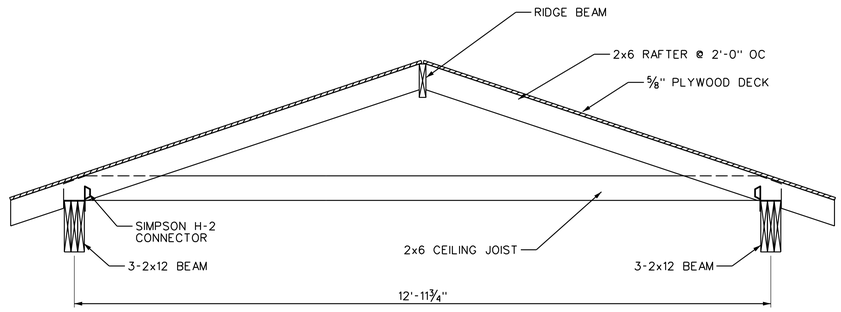
S1.0
OF
2

OF

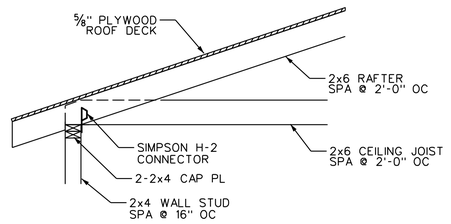


ROOF FRAMING PLAN

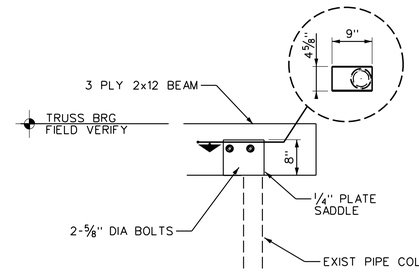
SCALE: ⅛ " = 1'-0"



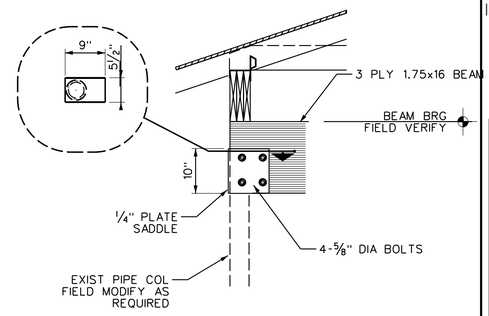
01 s2.0 SECTION
SCALE: " = 1'-0"



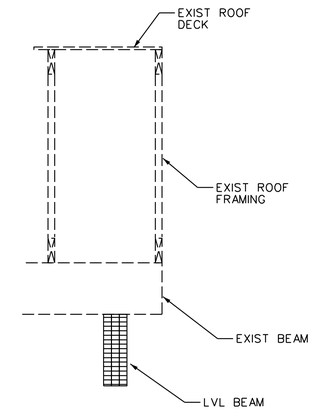
03 s2.0 SECTION
SCALE: ¾ " = 1'-0"



02 s2.0 SECTION
SCALE: ¾ " = 1'-0"



04 s2.0 SECTION
SCALE: ¾ " = 1'-0"



02 s2.0 SECTION
SCALE: " = 1'-0"

GENERAL NOTES

1. GENERAL

1.1 DESIGN CRITERIA:
A. CODES:
A.1 INTERNATIONAL BUILDING CODE 2009
A.2 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318).
A.3 SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, (AISC LATEST EDITION).
B. DESIGN LIVE LOADS (PSF):
ROOF.....20
MECHANICAL MEZZANINE.....20
C. LATERAL FORCES:
WIND: WIND VELOCITY = 90 MPH
IMPORTANCE FACTOR Is = 1.0
EXPOSURE CATEGORY = B
SEISMIC: IBC 2009
SDs = 25.7
SD1 = 10.7
IMPORTANCE FACTOR Is = 1.0
SITE CLASS = D

1.2 SUBMIT 5 COPIES OF SHOP DRAWINGS FOR REVIEW.
1.3 ALL DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS, UNLESS NOTED.
1.4 THE MORE CONSERVATIVE APPROACH TO BUILDING SHALL BE USED IN THE EVENT OF DISCREPANCIES BETWEEN THE ARCHITECTURAL DRAWINGS, THESE DRAWINGS AND THE SPECIFICATIONS.

2. FOUNDATION

2.1 MAXIMUM BEARING PRESSURES (PSF)(ASSUMED):
SPREAD FOOTINGS.....2,000
CONTINUOUS FOOTINGS.....2,000
2.2 SOIL CONDITIONS ARE ASSUMED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT THE SOILS AERE SUITABLE FOR CONSTRUCTION
2.3 REMOVE ALL ORGANIC AND UNSUITABLE MATERIAL PRIOR TO PLACING FILL. PLACE FILL IN HORIZONTAL LAYERS NOT TO EXCEED 8 INCHES IN LOOSE THICKNESS AND COMPACT TO A MINIMUM OF 98% STANDARD PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT. IF ACCEPTABLE TO THE OWNER'S GEOTECHNICAL ENGINEER, ON-SITE MATERIALS THAT MEET PROJECT SPECIFICATION REQUIREMENTS MAY BE USED FOR ENGINEERED FILL IF MAINTAINED AT OPTIMUM MOISTURE CONTENT AND COMPACTED TO THE ABOVE CRITERIA. SELECT BORROW MATERIALS WILL BE REQUIRED WHEN ON-SITE MATERIALS ARE UNSUITABLE OR CANNOT BE COMPACTED TO THE CRITERIA STATED ABOVE.
2.4 PROVIDE POSITIVE PROTECTION FOR ALL EXCAVATION SLOPES AGAINST INSTABILITY AND DETERIORATION DUE TO RAIN OR WIND.
2.5 ALLOW THE OWNER'S GEOTECHNICAL ENGINEER TO INSPECT ALL FINISHED EXCAVATIONS AND BEARING SUBGRADES BEFORE PLACING CONCRETE.
2.6 USE SIDE FORMS FOR ALL FOOTINGS AND GRADE BEAMS. CLEAN REINFORCEMENT IMMEDIATELY PRIOR TO PLACING CONCRETE. PLACE THE CONCRETE FOR EACH FOOTING IN ONE CONTINUOUS POUR.

3. CONCRETE

3.1 CONCRETE (MINIMUM) COMPRESSIVE STRENGTH AT 28 DAYS:
3000 PSI.....SLABS ON GRADE AND FOUNDATIONS.
3.2 MIX DESIGN SUBMITTALS SHALL INCLUDE (BUT ARE NOT LIMITED TO) IDENTIFICATION OF WHAT APPLICATION THE PROPOSED DESIGN MIX IS TO BE USED FOR, DESIGN STRENGTH IN PSI, RANGE OF SLUMP IN INCHES, AND LABORATORY TEST REPORTS OR EVALUATION REPORTS FOR CONCRETE MATERIALS AND CONCRETE MIX DESIGNS.
3.3 REINFORCING BARS: ASTM A615 GRADE 60.
3.4 WELDED WIRE FABRIC (WWF): ASTM A185
3.5 REINFORCING BAR PLACING ACCESSORIES IN ACCORDANCE WITH ACI MANUAL OF STANDARD PRACTICE. WHERE CONCRETE IS EXPOSED IN FINISHED BUILDING, PROVIDE ACCESSORIES WITH RUSTPROOF LEGS.
3.6 DETAIL REINFORCING IN ACCORDANCE WITH ACI 315. REINFORCING SHALL NOT BE WELDED UNLESS NOTED OR APPROVED BY THE ENGINEER.
3.7 LAP SPLICE ALL REINFORCING EXCEPT NO. 14 AND NO. 18 BARS A MINIMUM OF 30 BAR DIAMETERS BUT NOT LESS THAN 1'-6", UNLESS NOTED.
3.8 CONCRETE COVERAGE OF REINFORCEMENT:
FOOTINGS.....3" BOTTOM & SIDES
CONCRETE EXPOSED TO EARTH OR WEATHER...2"
OTHER CONCRETE.....1 1/2"
3.9 EARTH SUPPORTED SLABS: SEE DRAWINGS
3.10 CONCRETING OPERATIONS SHALL COMPLY WITH ACI STANDARDS.

5 WOOD TRUSSES

5.1 WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE TRUSS PLATE INSTITUTE (TPI) AS FOLLOWS (BUT NOT LIMITED TO):
TPI-1 - "DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES"
PCT-80 - "DESIGN SPECIFICATION FOR METAL PLATE CONNECTED PARALLEL CHORD WOOD TRUSSES"
HIB-91 - "COMMENTARY AND RECOMMENDATIONS FOR HANDLING, INSTALLING & BRACING METAL PLATE CONNECTED WOOD TRUSSES"
5.2 ALL TRUSSES SHALL BE DESIGNED AND SEALED BY A QUALIFIED ENGINEER REGISTERED IN THE STATE OF ALABAMA. ALL DESIGN CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW BEFORE MANUFACTURE.
5.3 STRESS GRADE SAWN LUMBER SHALL CONFORM TO NATIONAL SPECIFICATIONS FOR KILN DRIED NO.2 SOUTHERN PINE WITH ALLOWABLE STRESS VALUES OF 1300 PSI IN BENDING AND A MODULUS OF ELASTICITY OF 1600 PSI.
5.4 ROOF TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOADS:
TOP CHORD DEAD LOAD.....10 PSF
TOP CHORD LIVE LOAD.....20 PSF
BOTTOM CHORD DEAD LOAD.....10 PSF
5.5 CONTRACTOR SHALL NOTE THAT THE FRAMING IS NON-SELF SUPPORTING AND SHALL PROVIDE ADEQUATE TEMPORARY BRACING AS NEEDED. (REFER TO HIB-91, SEE NOTE 6.1 ABOVE)

6 WOOD FRAMING NOTES

6.1 VISUAL GRADE SAWN LUMBER SHALL CONFORM TO NATIONAL SPECIFICATIONS FOR KILN DRIED NO. 2 SOUTHERN PINE WITH ALLOWABLE STRESS VALUES OF 1300 PSI IN BENDING AND A MODULUS OF ELASTICITY OF 1600 KSI.
6.2 PROVIDE BRIDGING IN FLOOR AND ROOF IN ACCORDANCE WITH APPLICABLE CODES AND AS SHOWN ON THE DRAWINGS.
6.3 DESIGN AND DETAILING OF CONNECTIONS SHALL CONFORM TO THE NATIONAL DESIGN AND SPECIFICATIONS FOR STRESS GRADE LUMBER AND ITS FASTENINGS AS RECOMMENDED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION.
6.4 MAKE ALL CUTS TRUE AND SQUARE FOR FULL BEARING AT STRUCTURAL JOINTS.
6.5 BOLT HOLES AND PLATES TO BE PLACED AS SHOWN ON THE DETAILS. PROVIDE SPECIFIED SPACING, EDGE AND END DISTANCES.
6.6 CONNECT ALL FRAMING SECURELY TOGETHER WITH NAILS, SPIKES OR FRAMING ANGLES.
6.7 ALL METAL CONNECTOR AND ANCHOR DESIGNATIONS SHOWN ON THE DRAWINGS ARE FOR SIMPSON STRONG-TIE CONNECTORS. NAIL AS PER MANUFACTURER'S SCHEDULE.

REQUIRED INSPECTIONS

INSPECTION	FREQUENCY	COMMENTS
REBAR PLACEMENT	BEFORE PLACING CONCRETE	
CONCRETE	50 YDS	4 CYLINDERS/SET MIN 1 SET PER POUR
CONCRETE DESIGN MIX	1 PER MIX	
BOLTS	10% OF BOLTS ⅝" OR LARGER	TURN NUT OF METHOD
EPOXY ADHESIVE	EA. BOLT	PULL OUT TEST IN ACCORDANCE WITH ASTM

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2-22-18

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MADISON, ALABAMA 35758

REVISIONS

JOB NO. 1802
DRAWN JGQ
CHECKED JGQ
REVIEWED
DATE FEB 22, 2018

S2.0
OF
2

OF

EXISTING BUILDING

POURED IN PLACE CONCRETE PAD (TYP)

ECONOMIZER INTAKE LOUVER
ESD-435 X 48" DIA, COORDINATE INSTALLATION AND SEALING WITH ARCHITECT, (TYP 2 PL)

A

NORTH ENTRY PORCH

24"

GMND

EF-2

200 CFM

M M FD

30X16

C-1A

8"

C-1B

AHU-1

DF-1

FD

T

G

AUX CONDENSATE DRAIN TERMINATE IN ELBOW TURNED DOWN OUT OF WALL (TYP)

AUX CONDENSATE PAN

AUX COND

AUX COND

G

COND

WOMENS RR

C-3

AUX COND

8"

8"

10"

9"

FD

200 CFM

AHU-3

288 CFM

16X16

COND

6" FA DUCT UP TO ROOF JACK W/ BS

14"

9"

FD

12"

300 CFM

300 CFM

16X16

FOYER

G

FD

9"

16X16 DN TO 1ST FL CEILING

T

SEE GAS RISER

10"

C-2A

REFRI LINES DN IN WALL AND RUN ABOVE CEILING (TYP)

AUX COND

AUX COND

6"

G

C-2B

110 CFM

AHU-2

DF-2

AUX CONDENSATE PAN

T

FD

INSULATED CONDENSATE DRAIN DN IN WALL AND RUN ABOVE CEILING (TYP)

8"

CONDENSATE DRAIN SOAKAGE PIT 36" DIA X 36" DP FILL W/ .75" ROCK (TYP)

COND

30X16

GAS METER AND SERVICE BY GAS UTILITY

MENS RR

EF-1

200 CFM

M M FD

TITUS 50F ALUMINUM EGG CRATE 36X24 (TYP 2 PL)

SOUTH ENTRY PORCH

24"

A

650 CFM

650 CFM

650 CFM

650 CFM

800 CFM

48X24

48X24

650 CFM

650 CFM

650 CFM

650 CFM

800 CFM

300 CFM

300

300 CFM

300

24"

18"

14"

24"

18"

14"

RELIEF VENT, (ECONOMIZER & VENTILATION RELIEF) GREENHECK FGR 63X42, 8 SF THROAT AREA WITH FACTORY ROOF CURB, ADJ WEIGHTED BD, BS DUCTED TO TITUS 50F 48X24 ALUMINUM EGG CRATE GRILL IN CEILING

SANCTUARY

PULPIT/MUSIC

50 CFM

5"

4" FA DUCT UP TO ROOF JACK W/ BS

7"

DRESS RM

125 CFM

C-4

3"

8"

AHU-4

T

AUX COND

12"

COND

DUCT SIZE = UNIT OPENING SIZE

30 CFM

RR

EF-1

12"

6"

100 CFM

BAPTISTRY

10"

6"

100 CFM

UP TO ROOF JACK W/ BS (TYP FOR ALL TOILET EXHAUST)

EF-1

9"

RR

30 CFM

9"

7"

7"

150 CFM

75 CFM

6"

DRESS RM

N

HVAC PLAN

1/4"=1'-0"

REV	COMMENT	DATE INITIAL
2	ADDED NEW BUILDING CONNECTION REVISED HVAC TO ACCOMMODATE & ADDED YARD HYDRANT, PROVIDED MISC. CLARIFICATIONS,	1/02/18 DRA

HVAC PLAN

NEW SANCTUARY FOR ST. ELIZABETH CPCA

104 PERRY ST., MADISON. AL. 35758

D. R. ALDRIDGE & CONSULTANT 256-651-4832

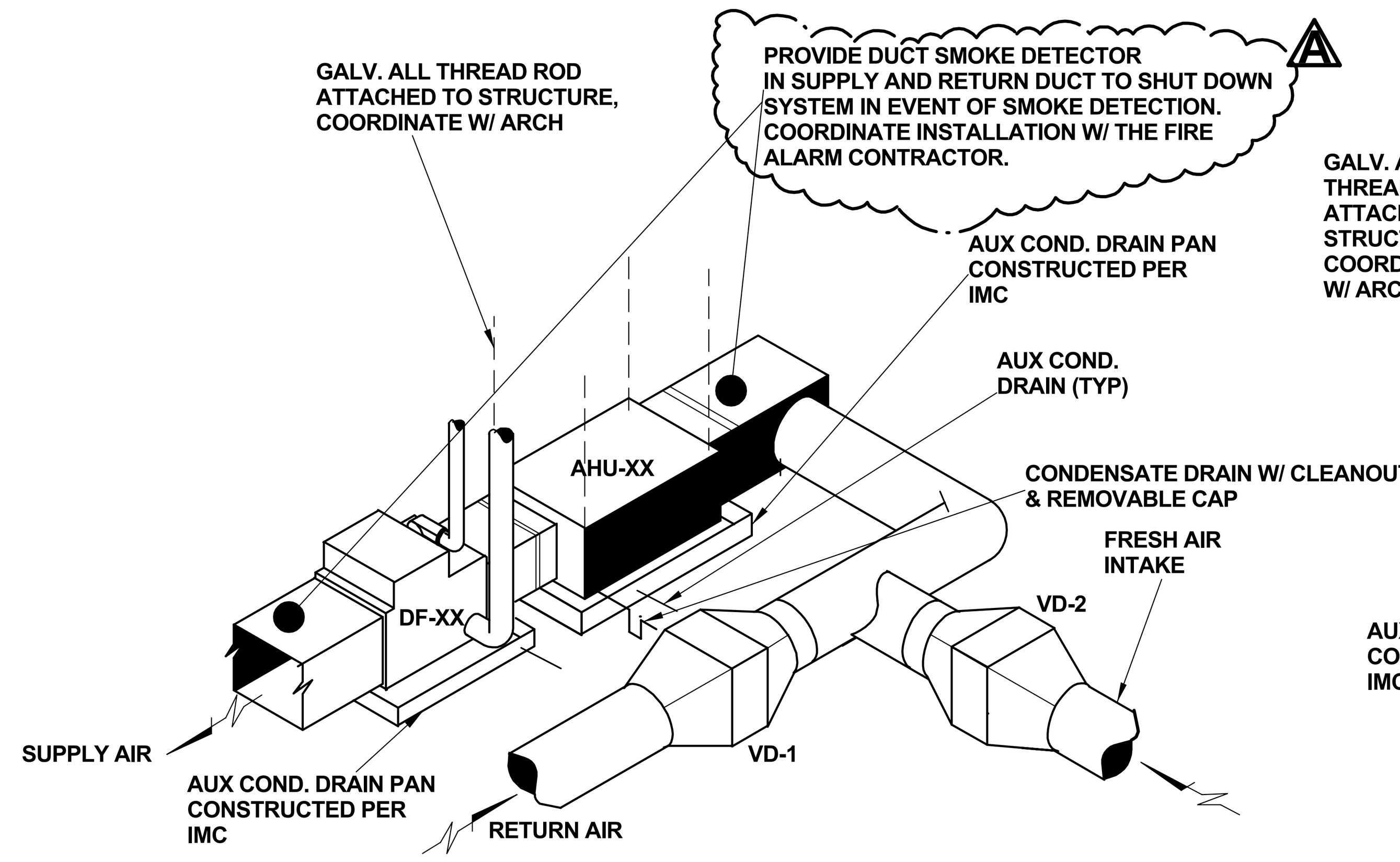
DATE: 1/12/15

SCALE: AS NOTED

ALABAMA REGISTERED PROFESSIONAL ENGINEER D. R. ALDRIDGE JR. NO. 16036 REVISED 1/02/18

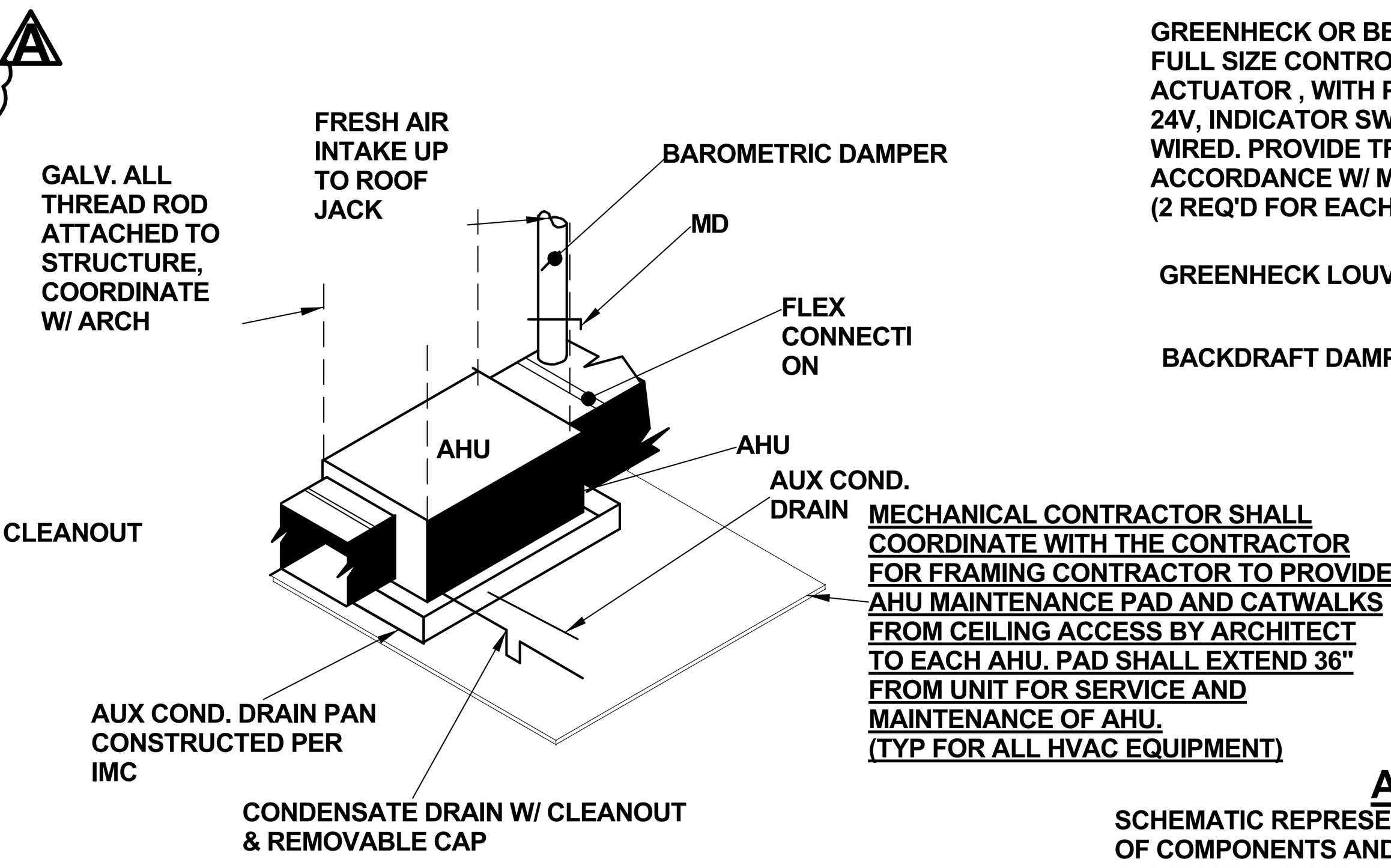
M-1

SHEET 1 OF 4



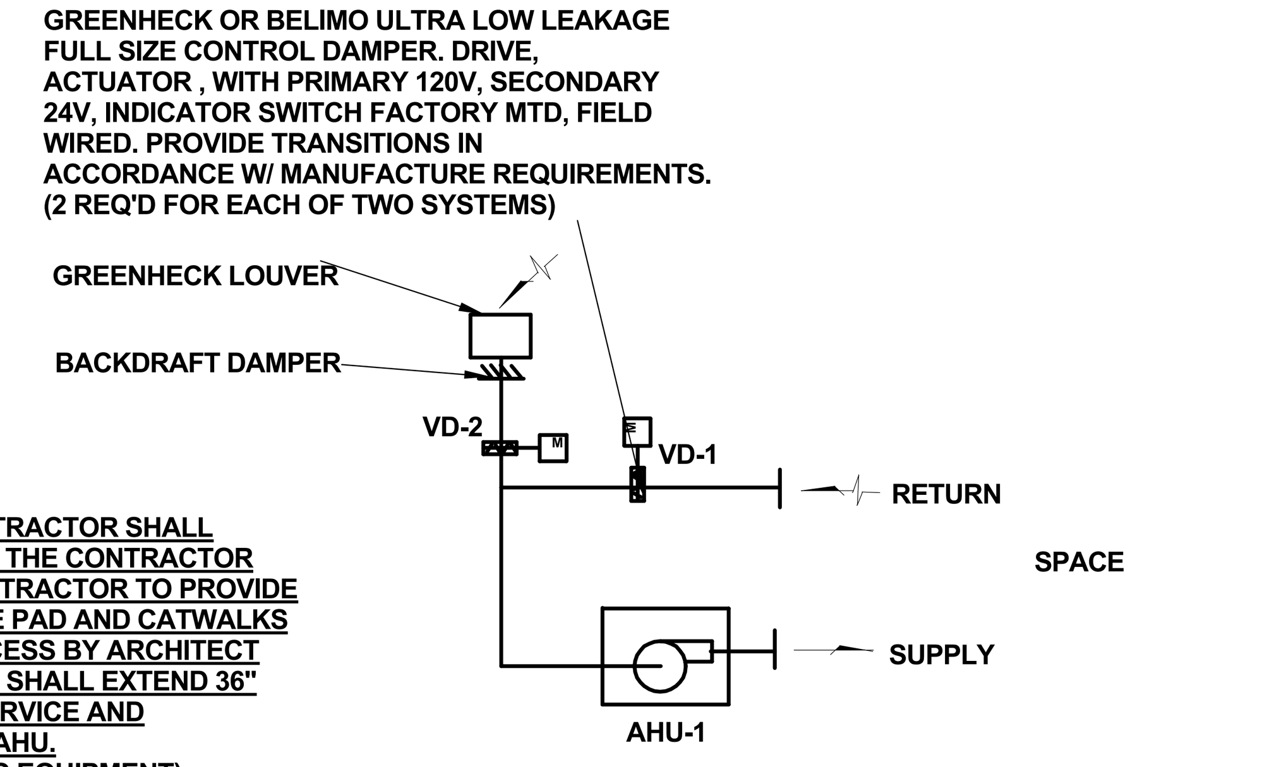
AHU-1 DETAIL, AHU-2 SIMILAR NTS

CONTRACTOR SHALL FIELD VERIFY FIT AND RE-ORIENT AS NECESSARY PRIOR TO PURCHASE FBRICATION AND/OR INSTALLATION. RETANGULAR DUCT OF SAME CAPACITY MAY BE USED IN LIEU OF ROUND DUCT



AHU DETAIL TYPICAL FOR AHU-3 AND AHU-4

NTS



AHU-1 CONTROL SCHEMATIC, AHU-2 SIMILAR

SCHEMATIC REPRESENTATION ONLY CONTRACTOR SHALL FIELD DETERMINE EXACT LOCATION OF COMPONENTS AND ADJUST AS NECESSARY. CONTROLS CONTRACTOR SHALL PROVIDE CONTROL SCHEMATIC, DAMPERS, ACTUATORS, CONTROLLERS, T-STATS, ENTHLAPY SENSOR, DEWPOINT SENSOR AND CONTROLS, AND POWER WIRING, ETC. GENERAL CONTROL: WHEN THE OUTDOOR AIR DRY BULB TEMPERATURE IS BELOW RETURN AIR TEMPERATURE AND OUTDOOR AIR ENTHALPY IS BELOW 26 BTU/LB, THE OUTDOOR AIR DAMPER WILL BE CONTROLLED TO MAINTAIN THE DISTCHARGE AIR TEMPERATURE SETPOINT. IF THE OUTDOOR AIR DAMPER REACHES 100% OPEN AND THE SPACE TEMPERATURE SETPOINT CANNOT BE MAINTAINED USING OUTDOOR AIR ALONE, THE HVAC COMPRESSOR SHALL ACTIVATE (INTERGRATED COMPRESSOR) WHILE THE OUTDOOR DAMPER IS HELD 100% OPEN. WHEN THE OUTDOOR AIR DRY BULB TEMPERATUER IS ABOVE THE RETURN AIR TEMPERATURE OR OUTDOOR AIR ENTHALPY IS ABOVE 26 BTU/LB, THE OUTDOOR AIR DAMPER WILL BE CONTROLLED TO MINIMUM POSITION.

GENERAL SEQUENCE OF OPERATION

GENERAL: THE HVAC CONTRACTOR SHALL COORDINATE WITH THE CONTROLS CONTRACTOR AND EQUIPMENT MANUFACTURER TO ENSURE CONTROLS, CONTROLS INTERFACE SYSTEMS AND COMPONENTS ARE COMPATIBLE. THE CONTRACTOR/MANUFACTURER SHALL PROVIDE THE LOGIC, MATERIALS, EQUIPMENT, AND LABOR TO SUPPORT THE GENERAL SEQUENCE OF OPERATION AND INSTALL ALL CONTROLS, MONITORING DEVICES, WIRING, DAMPERS, DAMPER MOTORS, ETC. REQUIRED TO PROVIDE FULLY FUNCTIONAL AND QUIET SYSTEMS. CONTROLS CONTRACTOR SHALL COORDINATE WITH THE ENGINEER PRIOR TO PURCHASE, FABRICATION AND/OR INSTALLATION.

HVAC SYSTEMS 1 AND 2, INTERGRATED ECONOMIZER CYCLE

THE INTERGRATED ECONOMIZER IS ONLY ALLOWED TO OPERATE WHEN THE AMBIENT CONDITIONS ARE SUITED FOR MEETING THE COOLING REQUIREMENT. PROVIDE A TWO STAGE T-STAT FOR HVAC SYSTEM WITH THE T-STAT'S FIRST STAGE CONTROLING THE ECONOMIZER AND THE SECOND STAGE CONTROLLING THE REFRIGERATION SYSTEM. THE SUPPLY FAN RUNS CONTINEOUSLY FOR THIS OPERATION. IF THE AMBIENT CONDITIONS ARE NOT CONDUCEIVE TO ECONOMIZER OPERATION MAINTAINING THE INSIDE DESIGN TEMPERATURE OF 75 DEG DBT AND 50% RH, THE SECOND STAGE AUTOMATICALLY CONTROLS THE REFRIGERANT COOLING CYCLE AS A SUPPLEMENT. WHEN THE ECONOMIZER IS IN OPERATION BUT NOT COMPLETELY SATISFYING THE COOLING LOAD, THE SECOND STAGE SHALL OPERATE THE REFRIGERATION SYSTEM TO COME ON AND ASSIST THE ECONOMIZER DURING THE COOLING CYCLE.

DURING THE COOLING CYCLE, WHEN THE OUTSIDE T-STAT SENSES A TEMPERATURE EQUAL TO OR LOWER THAN THE RETURN AIR TEMERATURE (ADJUSTABLE SET POINT) AND A 26 BTU/LB ENTHALPY (ADJUSTABLE SET POINT) OR LESS, VD-1, SHALL MODULATE TO ITS MAXIMUM CLOSED POSITION, CONCURRENTLY WITH VD-2 MODULATING TO ITS OPEN POSITION PROVIDING, COORDINATED DAMPER OPERATIONS MAINTAINING A CONSTANT SUPPLY AIR ALL TIMES. UPON SENSING THE INDOOR THERMOSTATIC SETPOINT, THE DAMPERS SHALL MODULATE TO THEIR NORMAL POSITION WITH VD-2 SET TO ITS MINIMUM POSITION FOR THE VENTILATION REQUIREMENT OF 788 CFM, VD-2.

GRILL, DIFFUSER SCHEDULE

SUPPLY MANUFACTURER/MO	CFM RANGE	SUPPLY SIZE
CEILING		
TITUS/250AA	25-120	6X6
TITUS/250AA	121-155	8X6
TITUS/250AA	156--210	8X8
TITUS/250AA	211-310	10X10
TITUS/250AA	311-435	12X12
TITUS/250AA	436-580	14X14
SIDE WALL		
TITUS/272FS	600-850	30X6

RETURN MANUFACTURER/MO	CFM RANGE	RETURN SIZE
TITUS/50F	0-329	10X10
TITUS/50F	330-479	14X10
TITUS/50F	480-599	14X14
TITUS/50F	1200-1800	20X20
TITUS/50F	3000-4000	LOCATION & SIZE NOTED ON DRAWINGS

HVAC SCHEDULE

MANUFACTURER	TRANE	TRANE	TRANE	TRANE
TYPE	STRAIGHT COOL	STRAIGHT COOL	HEAT PUMP/AUX HEAT	HEAT PUMP/AUX HEAT
SEER/EER/HSPF/COP	13/11/8.5/3.5	13/11/8.5/3.5	14.5/12/8.5/3.4	14.25/12/8.5/3.8
AIR HANDLER				
MARK	AHU-1	AHU-2	AHU-3	AHU-4
MODEL	TWE120E	TWE120E	GAM5A0C48M41SA	TAM4A0A18S11+TDR
VOLTAGE/PH	208-230/1	208-230/1	208-230/1	208-230/1
NOMINAL WEIGHT	133	133	185	120
NOMINAL CFM	4000	4000	1600	600
FRESH AIR	788	788	88	53
'NOMINAL TOT BTUH	120000	120000	48500	18000
AUX HEAT	NA	NA	BAYHTR158BRKC	BAYEAAC04
KW	NA	NA	7.68@240V, 1PH	3.84@240V, 1PH
UNIT				
VOLTAGE/PH	208-230/1	208-230/1	208-240	208-240
HP	2	2	0.75	0.33
MCA	8.5-7.7	8.5-7.7	48	23
LRA	57.4-57.4	57.4-57.4	-	-
MOP	15	15	50	25
CONDENSER				
MARK	C-1A & C-1B	C-2A & C-2B	C-3	C-4
MODEL	4TTR3060D1000A	4TTR3060D1000A	4TWR4048	4TWR5018G1
VOLTAGE/PH	200-230/1	200-230/1	208-230/1	208-230/1
MCA/MCB	35/60	35/60	26/45	9/15

NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL ELECTRICAL REQUIREMENTS FOR THE UNITS AND COORDINATE WITH THE ELECTRICAL CONTRACTOR PRIOR TO PURCHASE, FABRICATION AND/OR INSTALLATION. THESE REQUIREMENTS ARE NOT LIMITED TO BUT INCLUDE THE ACTUAL VALUES LISTED ON THE EQUIPMENT NAME PLATES SUCH AS FLA, RLA, LRA, MOP, ETC.
2. THE CONTRACTOR SHALL PROVIDE AND INSTALL ON/OFF/AUTOMATIC T-STAT WITH 7 DAY PROGRAMMABLE TIMER AND NIGHT SET BACK WITH LOCKING COVERS FOR EXCH SYSTEM.
3. THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT, ELECTRICAL AND CEILING CONTRACTOR TO LOCATE PENETRATIONS AND DIFFUSERS AND TO PROVIDE SERVICE ACCESS AND CATWALKS (WHERE APPLICABLE IN ACCORDANCE WITH CODE FOR ALL AHUS).
4. CONTRACTOR SHALL PROVIDE COIL GUARDS AND COMPRESSOR HARD START KITS AS MANUF. BY TRANE.
5. STATIC PRESSURES ARE ESTIMATED, THE CONTRACTOR SHALL DETERMINE THE STATIC PRESSURES REQUIRED FOR HIS SYSTEM AND PROVIDE BLOWER MOTOR HPs AS REQUIRED TO DEVELOP THE EXTERNAL STATIC PRESSURE REQUIRED.
6. THE CONTRACTOR SHALL PROVIDE AND INSTALL A SMOKE DETECTOR IN THE SUPPLY AND RETURN DUCT SYSTEM FOR AHU-1 AND AHU-2
7. THE CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR THE REQUIREMENTS FOR PROVIDING POWER AND CONTROL TO ALL EQUIPMENT, ETC.

DUCT FURNACE SCHEDULE

MARK	DF-1	DF-2
MANUFACTURER	TRANE	TRANE
MODEL	GMND010AEF1000	GMND010AEF1000
INPUT BTUH	100000	100000
WEIGHT	161	161
ELECTRICAL	115V/1PH/60HZ	115V/1PH/60HZ

NOTE;

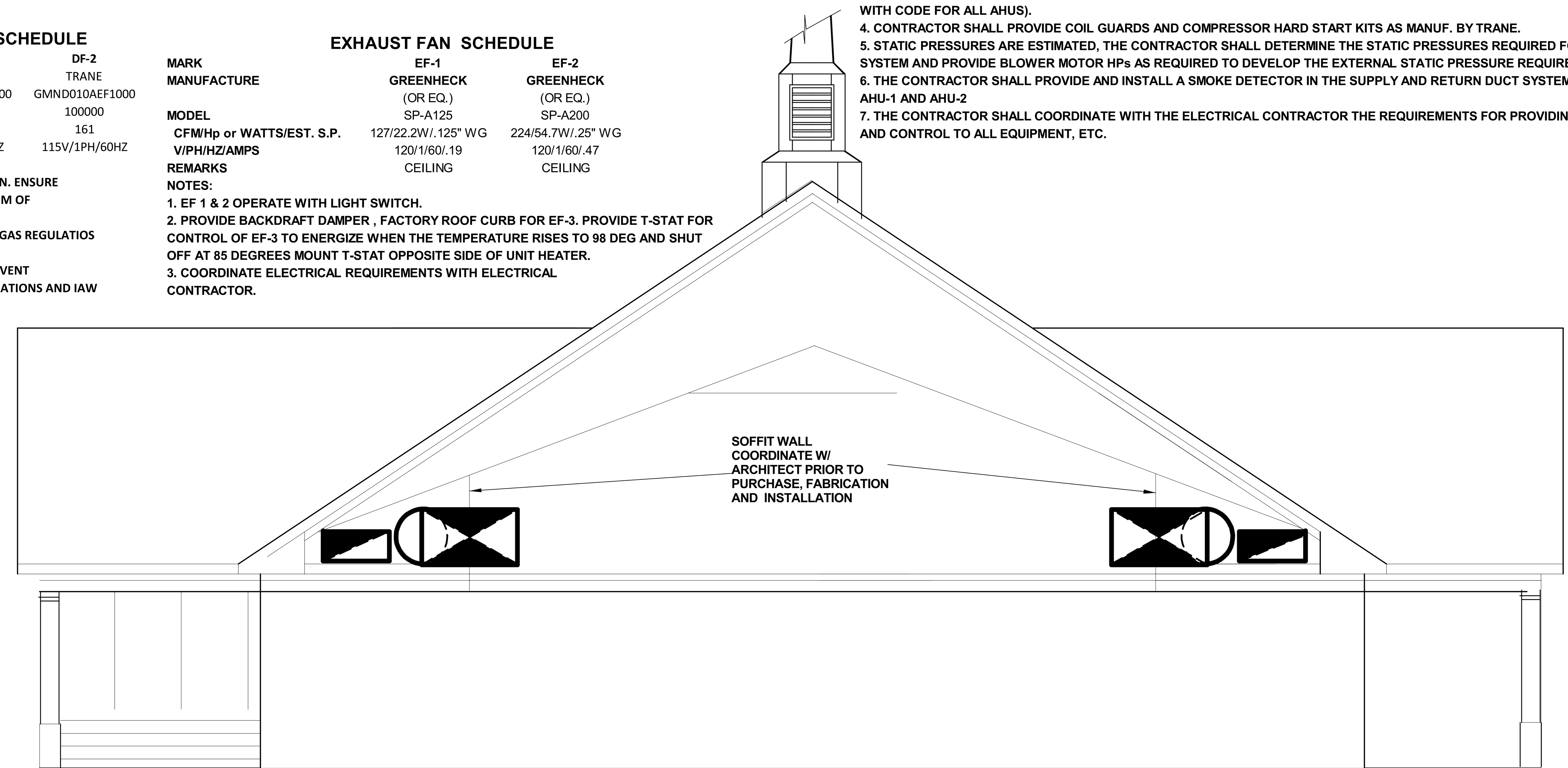
1. PROVIDE SEPARATED COMBUSTION. ENSURE FRESH AIR DUCT INTAKES A MIMIMUM OF 10' FROM FLUE EXHAUST.
2. PROVIDE AND INSTALL MAXITROL GAS REGULATIOS VENTED TO THE OUTSIDE.
3. PROVIDE LABOR AND MATERIALS VENT PER MANUFACTURERS RECOMMENDATIONS AND IAW NFPA 54.

EXHAUST FAN SCHEDULE

MARK	EF-1	EF-2
MANUFACTURE	GREENHECK (OR EQ.)	GREENHECK (OR EQ.)
MODEL	SP-A125	SP-A200
CFM/Hp or WATTS/EST. S.P.	127/22.2W/.125" WG	224/54.7W/.25" WG
V/PH/HZ/AMPS	120/1/60/.19	120/1/60/.47
REMARKS	CEILING	CEILING

NOTES:

1. EF 1 & 2 OPERATE WITH LIGHT SWITCH.
2. PROVIDE BACKDRAFT DAMPER , FACTORY ROOF CURB FOR EF-3. PROVIDE T-STAT FOR CONTROL OF EF-3 TO ENERGIZE WHEN THE TEMPERATURE RISES TO 98 DEG AND SHUT OFF AT 85 DEGREES MOUNT T-STAT OPPOSITE SIDE OF UNIT HEATER.
3. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.



PARTIAL SECTION A-A

NTS

General notes:

1. The drawings are intended to represent the scope of work for the mechanical task to be performed. Elements and components not included on the drawings, but are necessary and deemed essential for the proper operation and function of the mechanical systems, or required for compliance with applicable codes, shall be provided and installed at no additional cost to the owner, architect and/or engineers. The contractor shall provide and install his equipment and install and connect equipment and fixtures furnished by others. The contractor shall visit the site, investigate the site conditions, review the mechanical and architectural documentation and satisfy himself that the work can be accomplished as intended. If discrepancies occur within the design documentation and/or the site conditions, the contractor shall suggest, based on his expertise, solutions for the documentation for the architect to review prior to submission of his proposal. Acceptance by the contractor of the design documentation as evidenced by the acceptance of the contractor's proposal by the owner shall indicate that the work can be accomplished in accordance with the documentation. Except for unforeseen items, the construction cost and documentation resulting from changes incurred as a result on unintentional omissions by the architectural design/construction documentation after award shall be the contractor's responsibility. The does not alleviate the contractor from providing successfully inspected, fully functional systems. The contractor shall verify all equipment requirements and submit to the architect for approval prior to purchase, fabrication and/or installation. The contractor shall remove all debris from the site on a daily basis.
2. The contractor shall coordinate his installation with all disciplines prior to executing his installation. The contractor shall adhere to the 2009 International codes, and local codes.

HVAC Notes:

1.The contractor shall, inclusive off but not limited install HVAC systems, duct distribution, grills, T-stats, condensate drains, gas systems, etc. as indicated on the drawings documentation. All condensate lines above grade and refrigerant suction shall be insulated lines. Condensate lines shall have a P-trap with a removable cleanout at the unit.

2. The contractor shall investigate the existing site conditions and design documentation and verify the design can be accomplished as indicated. The contractor shall verify space available for his system, and coordinate with the architect soffits, drop ceiling, chases, and floor roof and wall penetration requirements and adjust exact location of ductwork to miss all interferences. All duct dimensions are clear inside dimensions. Coverings and linings including adhesives used shall have a flame spread index of not more than 25 and a smoke developed index not more than 50, when tested in accordance with ASTM E 84, using the specimen preparation and mounting procedures of ASTM E 2231. Duct coverings and lining shall not glow, smolder or smoke when tested in accordance with ASTMc411 at temperature to which they are exposed in service. The test temperature shall be 250 deg. F. or greater.

External duct insulation and factory insulated flexible duct shall be legibly printed or identified at intervals not greater than 36 inches with the name of the manufacturer, the thermal resistance R-value at the specified installed thickness and the flame spread and smoke developed indexes of the composite materials. All duct insulation product R values shall be based on insulation only, excluding air films, vapor retarders, or other duct components, and shall be based on tested C values at 75 deg. F. mean temperature at the installed thickness, in accordance recognized industry procedures.

Duct linings shall be interrupted at a minimum of 6" up and down stream of electric resistance fuel burning heater in the duct system. Metal nosing or sleeves shall be installed over exposed liner edges that face opposite the direction of air flow.

Where duct liner is interrupted a duct covering or equal or greater thermal performance shall be installed.

Service openings shall not be concealed by duct coverings unless the exact location is properly identified.

Vapor retarders for cooling on duct that are externally insulated shall have a maximum permeance of .05 perm or aluminum foil having a minimum thickness of 2 mils. Vapor retarders shall be continuous at all joints and seams and shall be sealed.

Internal insulation materials and exposed to airstream in ducts shall be shown to be durable when tested in accordance with UL 181. Exposed internal insulation that is not impermeable to water shall be used in lined ducts or plenums from the exit of a cooling coil to the down stream end of the drain pan.

External duct insulation and factory-insulated flexible duct shall be legibly printed or identified at intervals not greater than 36 inches (9 14 mm) with the name of the manufacturer; the thermal resistance R-value at the specified installed thickness; and the flame spread and smoke-developed indexes of the composite materials. All duct insulation product R-values shall be based on insulation only, excluding air films, vapor retarders, or other duct components, and shall be based on tested C-values at 75°F (24°C) mean temperature at the installed thickness, in accordance with recognized industry procedures. No more then 4' of insulated flex duct is allowed on any one terminal.

Duct sizes indicated may be revised as necessary to clear obstacles upon approval of engineer. Changes in duct sizes shall be indicated on the shop drawings submitted for approval as requested in the general notes section. Duct shall be galvanized sheet metal with gauges conforming to requirements per SMACNA except where otherwise allowed here-in subject to approval by authorities having jurisdiction.

Interior round and rectangular supply duct and fresh air duct in unconditioned spaces shall be externally insulated with a vapor barrier and shall have a minimum resistance value of R-8.

Interior round and rectangular return and toilet exhaust fan duct in unconditioned spaces shall be externally insulated with a vapor barrier and shall have a minimum resistance value of R-4.

Single wall round duct shall be slip with crimped ends. Joints shall be fastened with no less then 4 self-tapping sheet metal screws equally spaced around the perimeter then taped to form a seal. All duct joints (longitudinal and transverse joints, seams and connections) shall be sealed with welds, gaskets, mastics or tapes. Tapes and mastics shall be listed and labeled in accordance with UL 181A and UL 181B, (standard duct tape is not permitted). Insulation shall be properly sealed. Insulation joints shall be stapled then sealed with foil back tape. Installation shall be in accordance with material manufacture recommendations.

3. T-stats shall be on/off/automatic heat/cool with night set back and 7 day programmable timer. Each T-stat shall have a key operated locking cover.

4. The mechanical contractor shall verify and coordinate the requirements as indicated in scheduled notes with the equipment provider, and the electrical contractor. The mechanical contractor shall coordinate the requirements with the architect for above ceiling equipment service platforms, catwalks and ceiling access to HVAC equipment for maintenance and repair prior to purchase, fabrication and installation.

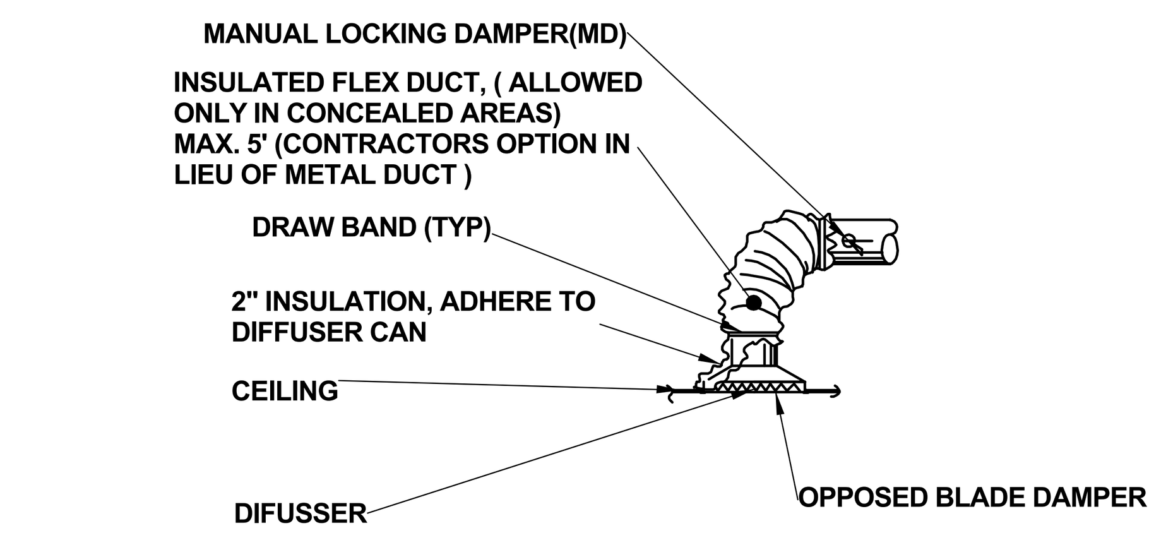
5. All terminal devices shall be as indicated with supply directions shown and as manufactured by Titus or approved equal. All supply terminals shall have opposed blade dampers. A manual locking damper shall be provided as indicated in each branch duct at the terminal device or at the branch takeoff. **No stamped terminal devices are acceptable unless specifically called out for on the drawings.**

6. The contractor shall verify that all fresh air intakes are a minimum of 10' from any exhaust fans roof jacks, exhaust fans, and plumbing vents prior to purchase, fabrication and installation.

7. Static pressures are approximate and for estimating purposes only. The contractor shall calculate the static pressures imposed on the equipment required for his system and provide and installed blower motors as required to accommodate these requirements.

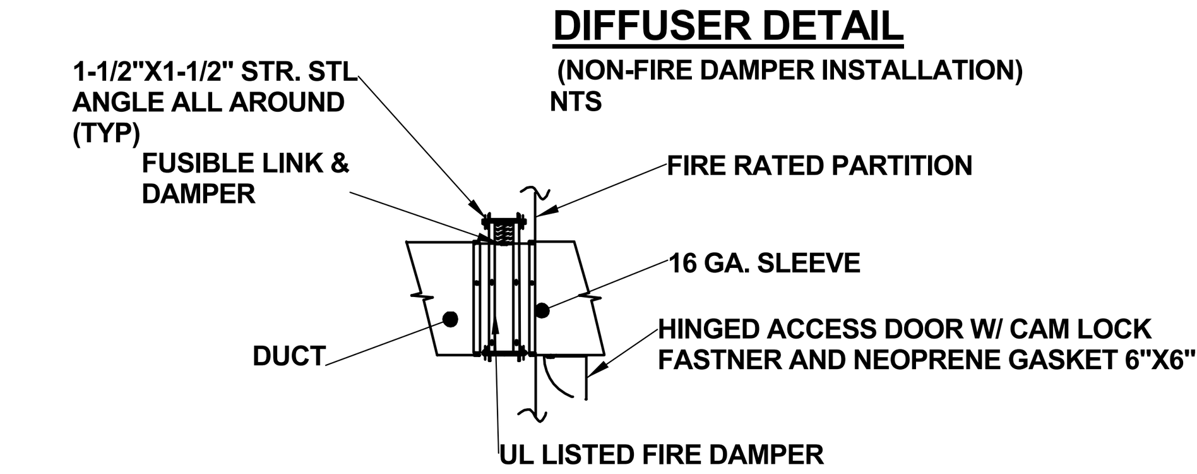
8. The contractor shall provide and install filters for each unit and provide 2 additional sets of replacement filters to the owner upon completion. Filters shall be Class I or Class II filters in accordance with the IMC. The contractor shall provide 2 sets of maintenance manuals for each piece of equipment installed and train the owner on the use of the of the controls and systems upon completion. The contractor shall provide a one-year parts and labor warranty for all equipment for a period of a year from with an additional four-year warranty for all compressors.

9. Gas piping components, piping materials, and installation shall be in accordance with requirements on the local gas utility serving the facility. Natural gas piping, above grade shall be seamless schedule 40 black steel pipe conforming to ASTM A53 or A120 screwed. Fittings shall be per ASME B16.3, malleable iron or ASTM A234, forged steel screwed type. Installation shall be in strict accordance with local gas utility, IGC and NFPA 54 (The most stringent of the three). The contractor shall provide and install pressure regulators as required. Valves and components shall be in accordance with the local gas utility, IGC and NFPA 54 (The most stringent of the three). The contractor shall provide cathodic protection in accordance with the gas utility. The contractor shall provide all gas regulators as required.



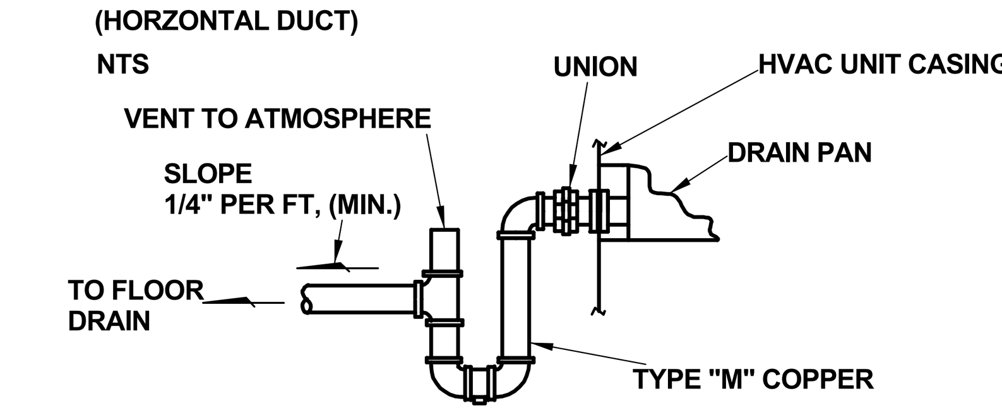
DIFFUSER DETAIL

(NON-FIRE DAMPER INSTALLATION)
NTS



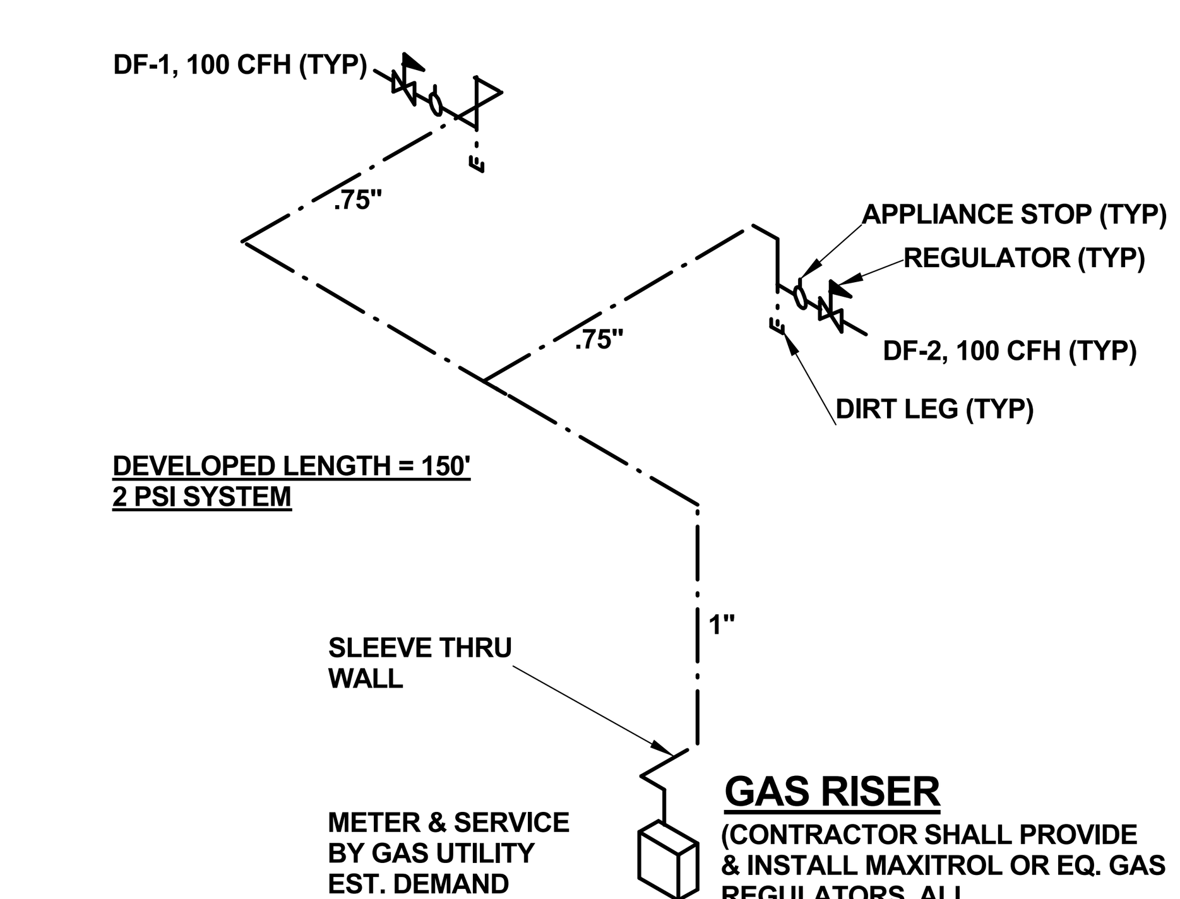
DUCT MOUNTED FIRE DAMPER (FD) DETAIL

(HORIZONTAL DUCT)
NTS



CONDENSATE DRAIN AND TRAP

NTS



GAS RISER

(CONTRACTOR SHALL PROVIDE & INSTALL MAXITROL OR EQ. GAS REGULATORS, ALL REGULATORS SHALL BE VENTED TO THE OUTSIDE.)

REV.	COMMENT	DATE INITIAL
A	ADDED NEW BUILDING CONNECTION REVISED HVAC TO ACCOMMODATE & ADDED YARD HYDRANT, PROVIDED MISC. CLARIFICATIONS,	1/02/18 DRA

HVAC SCHEDULES & DETAILS

NEW SANCTUARY FOR ST. ELIZABETH CPCA

104 PERRY ST., MADISON. AL. 35758

D. R. ALDRIDGE CONSULTANT 256-651-4832

DAVID R. ALDRIDGE, JR. PROFESSIONAL ENGINEER

DATE 1/12/15

SCALE AS NOTED

M-2

SHEET 2 OF 4

EXISTING BUILDING

NORTH ENTRY PORCH

WOMENS RR

MENS RR

FOYER

SANCTUARY

PULPIT/MUSIC

DRESS RM

BAPTISTRY

SOUTH ENTRY PORCH

P10 IN ATTIC (SEE WATER HEATER DETAIL)

SEE SOIL, WASTE, & VENT RISER

SEE DOMESTIC WATER RISER

TO P11, YARD HYDRANT REFER TO ARCHITECTURAL DRAWING "L-1" FOR YARD HYDRANT LOCATION

DN IN WALL

2" VENT UP TO 2" VTR

TO SOAKAGE PIT (BY OTHERS)

CONCRETE VALVE BOX W/ CONCRETE COVER

DOMESTIC WATER SUPPLY 36 GPM@ 45 PSI (INITIAL SETTING), CONTRACTOR TO VERIFY ADAQUATE PRESSURE & ADJUST AS REQUIRED.

TO SANITARY SEWER (COORDINATE W/ CIVIL DRAWINGS)

PLUMBING PLAN

1/4"=1'-0"

REV	COMMENT	DATE INITIAL
1	ADDED NEW BUILDING CONNECTION REVISED HVAC TO ACCOMMODATE & ADDED YARD HYDRANT, PROVIDED MISC. CLARIFICATIONS,	1/02/18 DRA

PLUMBING PLAN

NEW SANCTUARY FOR ST. ELIZABETH CPCA

104 PERRY ST., MADISON. AL. 35758

D. R. ALDRIDGE
CONSULTANT
256-651-4832

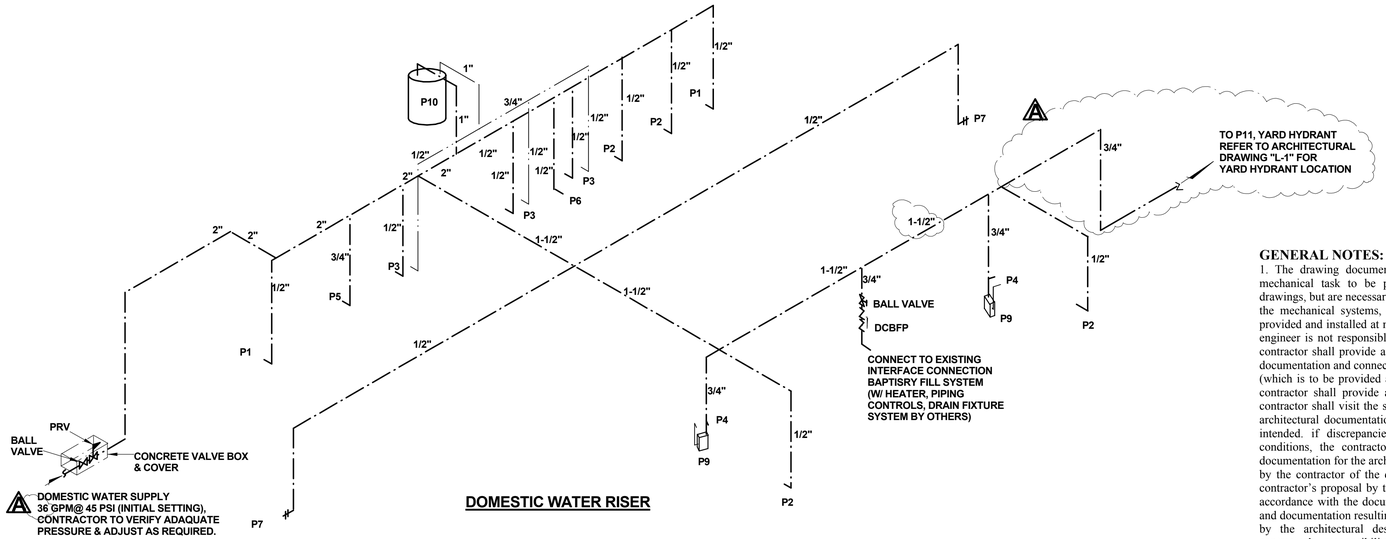
DATE: 1/12/15

SCALE: AS NOTED

ALABAMA LICENSED PROFESSIONAL ENGINEER D. R. ALDRIDGE JR. NO. 16096 1/02/18

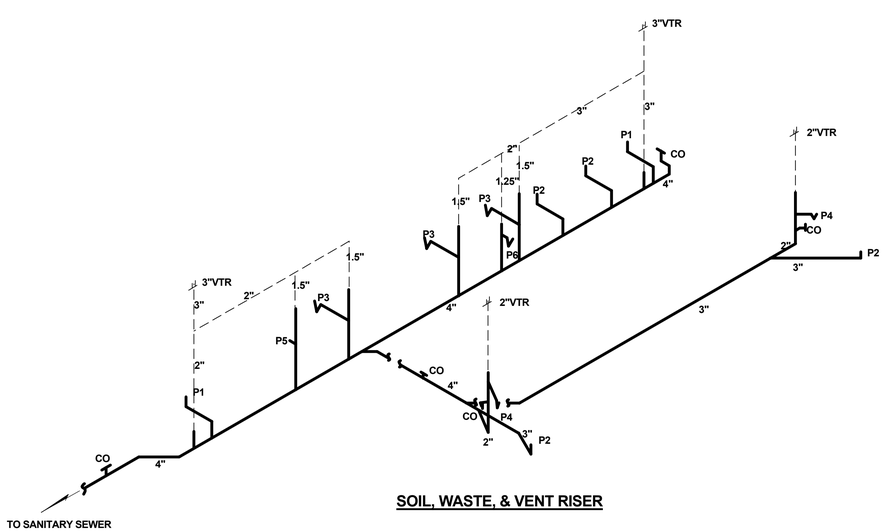
P-1

SHEET 3 OF 4

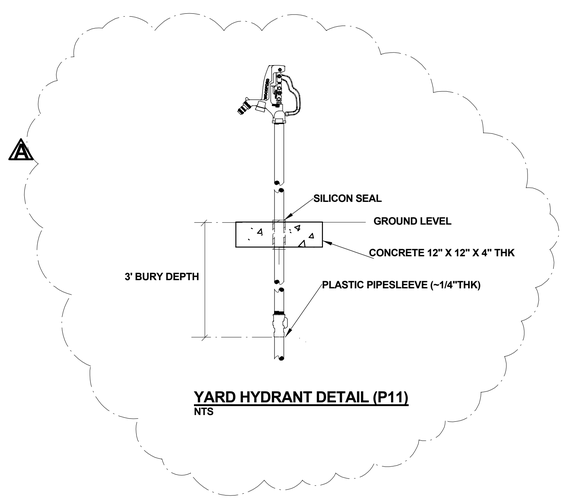


DOMESTIC WATER SUPPLY
36 GPM@ 45 PSI (INITIAL SETTING), CONTRACTOR TO VERIFY ADAQUATE PRESSURE & ADJUST AS REQUIRED.

DOMESTIC WATER RISER



SOIL, WASTE, & VENT RISER



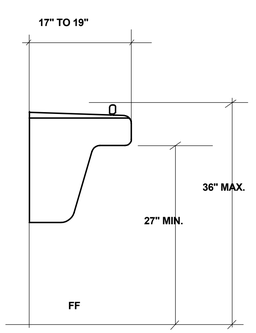
YARD HYDRANT DETAIL (P11)
NTS

GENERAL NOTES:

1. The drawing documentation is intended to represent the scope of work for the mechanical task to be performed. Elements and components not included on the drawings, but are necessary and deemed essential for the proper operation and function of the mechanical systems, or required for compliance with applicable codes, shall be provided and installed at no additional cost to the owner, architect and/or engineers. The engineer is not responsible for performance of functions for contractor deviations. The contractor shall provide a cold water line approximately where indicated on the design documentation and connect at an interface point for the baptistery system (which is to be provided and installed by others)and provide a backflow preventer The contractor shall provide and install his equipment, as indicated on the drawings the contractor shall visit the site, investigate the site conditions, review the mechanical and architectural documentation and satisfy himself that the work can be accomplished as intended. if discrepancies occur within the design documentation and/or the site conditions, the contractor shall suggest, based on his expertise, solutions for the documentation for the architect to review prior to submission of his proposal. Acceptance by the contractor of the design documentation as evidenced by the acceptance of the contractor's proposal by the owner shall indicate that the work can be accomplished in accordance with the documentation. Except for unforeseen items, the construction cost and documentation resulting from changes incurred as a result on unintentional omissions by the architectural design/construction documentation after award shall be the contractor's responsibility. This does not alleviate the contractor from providing successfully inspected, fully functional systems. The contractor shall verify all equipment requirements and submit to the architect for approval prior to purchase fabrication and/or installation. The contractor shall remove all debris from the site on a daily basis.
2. The installation shall be in strict accordance with the 2009 international plumbing code requirements, and all local city and state codes in effect.

PLUMBING NOTES:

1. All plumbing exiting/entering the facilities shall be coordinated with the architectural/civil engineering drawing documentation and the contractor to ensure proper location and installation. The contractor shall, inclusive off but not limited install fixtures (wc, ewc, lav, etc.) and trim, faucets, hand wheel stops, water and sanitary piping, water heater, etc. the contractor shall locate the existing domestic water and soil waste and vent piping and connect to it as indicated on the drawings. Domestic water piping above ground shall be type "l" copper (hard or annealed). Water piping below grade shall be type "k" annealed copper. Copper joints shall be made with no lead silver solder. Water piping below grade shall be continuous with no joints. All joints that have to be made shall be above ground then may continue under ground to final location. All above the frost line water lines, components, valves, etc. shall be insulated. Hot water lines < 1.5" diameter shall have 1.5" of insulation, hot water lines 1.5" and > then 1.5" diameter shall have 2" thick insulation. All cold water lines in unconditioned spaces shall have 2" thick insulation. insulation shall have a resistively value of four or greater per inch of thickness on a flat surface with a mean temperature of 75 deg. f. copper penetrations thru the floor shall be protected with a continuous plastic sleeve. (CPVC pipe and fittings, **upon approval by the plumbing official and listed in the IPC,** may be used in lieu of copper for domestic water piping within the facility). (Schedule 40 PVC pipe and fittings, **upon approval by the plumbing official and listed in the IPC,** may be used in lieu of copper for domestic cold water supply piping to the facility). Water heater shall be provided with heat traps on the supply and return lines. All water piping valves shall be cast brass, cast bronze or wrought copper body as manufactured by crane, NIBCO, Jenkins or Powell. Valve classification and type shall be suited for service pressures used as approved by IPC.
2. Where applicable, the contractor shall coordinate with the owner, and other suppliers for equipment, fixtures etc., to be furnished and installed by others and connected as required by the plumbing contractor. (Example; Baptistery)
3. Soil waste and vent pipe located below grade shall be spun service weight, bell and spigot CISP conforming to ASTM-74 with compressions gaskets conforming to ASTM c-564. Soil, waste, vent pipe and fittings above grade shall be hubless CISP conforming to ASTM a-888 with fittings conforming to ASTM standard 301. All CISP shall be coated inside and out with cold tar finish, (solvent welded plastic materials, **upon approval by the plumbing official and listed in the IPC,** may be used in lieu or CISP for soil waste and vent pipe.). all pipe shall be sloped as required by the IPC.
4. Disinfection of domestic water lines shall be in strict accordance with the IPC and the method as approved by the plumbing official.

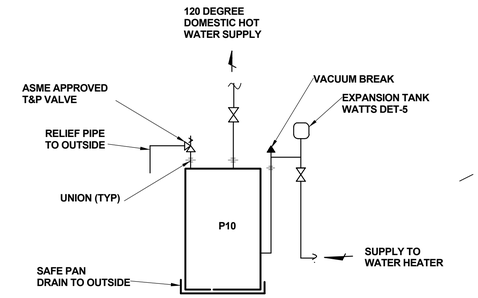


P9 HANDICAP WATER COOLER MOUNTING REQUIREMENTS
(NTS)

PLUMBING SCHEDULE

MARK	DESCRIPTION	MANUF.	MODEL	REMARKS
P1	WATER CLOSET	TOTO USA	DRAKE II	VITREOUS CHINA, WHITE/COTTON, WATER SENSE
	HANDICAP	(OR APPROVED EQUAL)	CST454CEFG#01	LISTED 3" FLUSH VALVE, SIPHON JET, ELONGATED
	TANK TYPE			BOWL W/ SANAGLOSS GLAZE, BOLT CAPS
	SEAT	TOTO USA	SC534	SOLID WHITE ELONGATED PLASTIC
				OPEN FRONT SEAT, MOUNTING HWDE INCLUDED
				HAND WHEEL STOP
P2	WATER CLOSET	TOTO USA	DRAKE	VITREOUS CHINA, COTTON, PRESSURE
	TANK TYPE	(OR APPROVED EQUAL)	CST744S#01	ASSISTED, SIPHON JET, ELONGATED BOWL
				14 HIGH, W/BOLT CAPS
				SOLID WHITE PLASTIC
	SEAT	TOTO USA	SC534	HINGED, OPEN FRONT SEAT
				HAND WHEEL STOP
P3	LAVATORY	TOTO USA	LT501.4#01	OVAL VITRIOUS CHINA, LAVATORY, COTTON
	HANDICAP	(OR APPROVED EQUAL)		ADJUSTABLE P-TRAP, INSULATED HOT
	COUNTER TOP		3302.015	HAND WHEEL STOPS, DRAIN, STRAINER
	GRID DRAIN		2411.015	DRAIN ASSEMBLY, 1-1/4" P-TRAP
	FAUCET	DELTA	3579 HDF	
P4	LAVATORY	TOTO USA	LT307.4	VITREOUS CHINA, WALL HUNG
		(OR APPROVED EQUAL)		4" CENTERS, FRONT OVER FLOW
	WALL HUNG			
	FAUCET	DELTA	520-DST	AERATOR, 4" BLADE HANDLES,
				HANDWHEEL STOPS, AND
				DRAIN ASSEMBLY, 1-1/4" P-TRAP
				TAILPIECE AND SUPPORTS
P5	URINAL	TOTO USA	UT104E#01	EQUAL 17", PER ADA REQUIREMENTS,
	FLUSH VALVE	TOTO USA	TMU1LN12#CP	SPLIT RING SUPPORT FOR FLUSH VALVE
				.5 GPF SUPPLY STOP, COTTON
P6	ELECTRIC WATER	ELKAY	EHOA-8	SINGLE LEVEL, ADA COMPLIANT LEAD FREE WATER
	COOLER			FOUNTAIN, STAINLESS , LEAD FREE , WHEEL CHAIR
	HANDICAP			ACCESS, P TRAP AND HANDWHEEL STOP
				7.8 GPH, 110V 4.8A
P7	WALL	WOODFORD	MODEL 30	FREEZELESS W/ ANTISIPHON
	HYDRANT	(OR APPROVED EQUAL)		VACUUM BREAK, PRESSURE RELIEF
				BRONZE CASING, BRONZE PARTS
P8	FLOOR DRAIN	SIOUX CHIEF FINISH LINE	833-23DNR 3"	W TRAP PRIMER, TRAP PRIMER HEAD &
		(OR APPROVED EQUAL)		PIPING, AND PIPE CONNECTIONS
P9	INSANTANEOUS	BRADFORD WHITE	ES-3000-1-S-10	120V, 25A, 3KW
		(OR APPROVED EQUAL)		
P10	WATERHEATER	RHEEM	PROE30 S2 RH93B	2-4500 WATT ELEMENTS NON-SIMULTANEOUS
		(OR APPROVED EQUAL)	.93 EF	30 GAL STORAGE. PROVIDE AND INSTALL
				ASME APPROVED T& P VALVE, VACUUM
				BREAK AND EXPANSION TANK, HEAT TRAP.
				SAFE PAN 208 VOLT, 1 PHASE
				SEE WATER HEATER DETAIL
P11	YARD	WOODFORD	MODEL Y2	FREEZELESS W/ ANTISIPHON
	HYDRANT	(OR APPROVED EQUAL)	50HF	BACKFLOW PREVENTER, DRAINABLE
			3/4"	GALVANIZED PIPE CASING, BRONZE PARTS
				BURY DEPTH 3'
C.O.	FLOOR CLEAN OUT	JOSAM	SERIES 56000-3-X-X	NOTECLEAN OUT AND COVER SHALL BE
		OR EQUAL PVC BY		SELECTED ON BASIS OF
		OATEY, SOUIX CHIEF		LOCATION TO BE INSTALLED
		OR SIMILAR PVC MANUF.		
		W/ JONES SYSTEMS CO.		FLUSH MOUNT CLEANOUT PLUG
	WALL CLEAN OUT	JOSAM	SERIES 58710-22-X-X	NOTECLEAN OUT AND COVER SHALL BE
		OR EQUAL PVC BY		SELECTED ON BASIS OF
		OATEY, SOUIX CHIEF		LOCATION TO BE INSTALLED
		OR SIMILAR PVC MANUF.		
		W/ JONES SYSTEMS CO.		FLUSH MOUNT CLEANOUT PLUG

NOTE: PLUMBING CONTRACTOR SHALL VERIFY SIZE AND FIT REQUIREMENTS WITH OTHER TRADES AND OWNER PRIOR TO PURCHASE, FABRICATION AND/OR INSTALLATION FOR ALL PRODUCTS.



WATER HEATER DETAIL

CONTRACTOR TO PROVIDE A HEAT TRAP ON THE SUPPLY AND DISCHARGE PIPING FOR THE WATER HEATER.

REV	COMMENT	DATE INITIAL
1	ADDED NEW BUILDING CONNECTION REVISED HVAC TO ACCOMMODATE & ADDED YARD HYDRANT, PROVIDED MISC. CLARIFICATIONS,	1/02/18 DRA

PLUMBING SCHEDULES & DETAILS

NEW SANCTUARY FOR ST. ELIZABETH CPCA

104 PERRY ST., MADISON. AL. 35758

D. R. ALDRIDGE, CONSULTANT
256-651-4832

DATE: 1/12/15

SCALE: NTS

ALABAMA REGISTERED PROFESSIONAL ENGINEER DAVID R. ALDRIDGE, JR. NO. 16056 1/02/18

P-2

SHEET 4 OF 4

POWER PLAN LEGEND

BRANCH CIRCUIT CONCEALED IN CEILING OR WALL. HOME RUN TO PANELBOARD AND 20A, SINGLE POLE BREAKER UNO. CIRCUIT NUMBER SHOWN ADJACENT TO HOME RUN.

BRANCH CIRCUIT CONCEALED BELOW FLOOR OR UNDERGROUND.

(3) #12 AND (1) #12(G) IN 3/4" CONDUIT, OR PER NATIONAL ELECTRIC CODE. FOR MORE THAN (3) CONDUCTORS, HAS MARKS INDICATE THE NUMBER OF CONDUCTORS REQUIRED. LARGE HASH INDICATES NEUTRAL CONDUCTOR

WP GFI — 120V, 20A, 3-WIRE DUPLEX RECEPTACLE--MOUNT 18" AFF, UNO. WP INDICATES WEATHER PROOF ENCLOSURE, GFI INDICATES GROUND FAULT INTERRUPTER.

WP GFI — 120V, 20A, 3-WIRE DUPLEX RECEPTACLE--MOUNT 18" ABOVE COUNTER UNO. GFI INDICATES GROUND FAULT INTERRUPTER.

120V, 20A, 3-WIRE QUADPLEX RECEPTACLE--MOUNT 18" AFF, UNO.

NON-FUSED DISCONNECT. SEE EQUIPMENT SCHEDULE FOR AMPS / # OF POLES / NEMA ENCLOSURE TYPE. MOUNT 48" AFF, UNO.

J — JUNCTION BOX. SIZE PER NATIONAL ELECTRICAL CODE OR AS INDICATED ON DRAWINGS. COORDINATE FIELD WIRING REQUIREMENTS FROM JUNCTION BOX TO EQUIPMENT INSTALLED BY OWNER.

POWER PANEL. SEE PANEL SCHEDULES FOR MORE INFORMATION.

TELEPHONE/DATA OUTLET BOX. PROVIDE OUTLET BOX RECESSED IN WALL WITH BLANK FACE PLATE FLUSH WITH WALL. INSTALL 3/4" CONDUIT FROM OUTLET BOX TO 18" ABOVE CEILING. PROVIDE CONDUIT WITH PLASTIC INSULATED BUSING. MOUNT 18" AFF. UNO.

TV — TELEVISION CABLE OUTLET BOX. PROVIDE OUTLET BOX RECESSED IN WALL WITH BLANK FACE PLATE FLUSH WITH WALL. INSTALL 3/4" CONDUIT FROM OUTLET BOX TO 18" ABOVE CEILING. PROVIDE CONDUIT WITH INSULATED BUSING. MOUNT 18" AFF. UNO.

2-GANG COMPARTMENT FLOOR BOX FOR DATA AND 120V, 20A, 3-WIRE DUPLEX RECEPTACLE. PROVIDE SEPARATE CONDUIT FOR POWER AND DATA. DATA CONDUIT SHALL BE ROUTED TO NEAREST WALL, STUBBED UP WALL 18" INTO CEILING SPACE ABOVE WALL, AND PROVIDED WITH INSULATED BUSHING ON OPEN END.

LIGHTING PLAN LEGEND

BRANCH CIRCUIT CONCEALED IN CEILING OR WALL. HOME RUN TO PANELBOARD AND 20A, SINGLE POLE BREAKER UNO. CIRCUIT NUMBER SHOWN ADJACENT TO HOME RUN.

(3) #12 AND (1) #12(G) IN 3/4" CONDUIT, OR PER NATIONAL ELECTRIC CODE. FOR MORE THAN (3) CONDUCTORS, HAS MARKS INDICATE THE NUMBER OF CONDUCTORS REQUIRED. LARGE HASH INDICATES NEUTRAL CONDUCTOR

$ — 120V, 20A, SINGLE-POLE SWITCH--MOUNT 48" AFF, UNO.

$3 — 120V, 20A, 3-WAY SWITCH--MOUNT 48" AFF, UNO.

$D — 120V, 20A, DIMMER SWITCH--MOUNT 48" AFF, UNO.

X — 2' X 4' SURFACE MOUNTED FLUORESCENT LIGHTING FIXTURE, X DENOTES FIXTURE MARK INDICATED IN FIXTURE SCHEDULE.

X — 2' X 4' SURFACE MOUNTED FLUORESCENT LIGHTING FIXTURE WITH EMERGENCY BATTERY PACK, X DENOTES FIXTURE MARK INDICATED IN FIXTURE SCHEDULE.

X — SURFACE MOUNTED LIGHT FIXTURE X DENOTES FIXTURE MARK INDICATED IN FIXTURE SCHEDULE.

X — 120 V, WALL MOUNTED 1" X 4' FLUORESCENT LIGHTING FIXTURE WITH ACRYLIC LENS. X INDICATES FIXTURE MARK IN LIGHTING FIXTURE SCHEDULE.

X — RECESSED CAN DOWN LIGHT FIXTURE. X INDICATES FIXTURE MARK IN LIGHTING FIXTURE SCHEDULE.

X — PENDANT MOUNTED LIGHT FIXTURE X DENOTES FIXTURE MARK INDICATED IN FIXTURE SCHEDULE.

X — WALL MOUNTED EXIT SIGN / EMERGENCY LIGHT BATTERY PACK COMBO UNIT, DARKENED AREA INDICATES LIGHTED FACE, X DENOTES FIXTURE MARK INDICATED IN FIXTURE SCHEDULE.

X — EMERGENCY LIGHT UNIT WITH SELF CONTAINED SEALED BATTERY. X DENOTES FIXTURE MARK INDICATED IN FIXTURE SCHEDULE.

X — ARCHITECTURAL WALL SCONCE. X DENOTES FIXTURE MARK INDICATED IN FIXTURE SCHEDULE.

X — POLE MOUNTED PARKING AREA LIGHT. X DENOTES FIXTURE MARK INDICATED IN FIXTURE SCHEDULE.

C — LIGHTING CONTACTOR. SEE LIGHTING CONTROL DIAGRAMS FOR MORE INFORMATION.

EXHAUST FAN. COORDINATE WIRING REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

ELECTRICAL SPECIFICATIONS

PART 1 - GENERAL

1.1 GENERAL

THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO REPRESENT THE SCOPE OF WORK FOR THE ELECTRICAL TASK TO BE PERFORMED. ELEMENTS AND COMPONENTS NOT INCLUDED ON THE DRAWINGS, BUT ARE NECESSARY AND DEEMED ESSENTIAL FOR THE PROPER OPERATION AND FUNCTION OF THE ELECTRICAL SYSTEMS, OR REQUIRED FOR COMPLIANCE WITH APPLICABLE CODES, SHALL BE PROVIDED AND INSTALLED AT NO ADDITIONAL COST TO THE OWNER, ARCHITECT, AND/OR ENGINEERS. THE CONTRACTOR SHALL PROVIDE AND INSTALL HIS EQUIPMENT AND INSTALL AND CONNECT EQUIPMENT AND FIXTURES FURNISHED BY OTHERS.

1.2 SCOPE OF WORK

FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT AND PROVIDE ALL LABOR REQUIRED AND NECESSARY TO COMPLETE THE WORK SHOWN ON THE DRAWINGS AND ALL OTHER WORK NOT SPECIFICALLY STATED, BUT REASONABLY INFERRED FOR A COMPLETE AND USEABLE SYSTEM. THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT REQUIREMENTS AND SUBMIT TO THE ARCHITECT FOR APPROVAL PRIOR TO PURCHASE, FABRICATION, AND/OR INSTALLATION. THE SCOPE OF WORK SHALL INCLUDE TESTING TO REASONABLY SHOW THAT THE SYSTEM COMPONENTS MEET THE SPECIFIED REQUIREMENTS. THIS PROJECT INCLUDES NEW ELECTRICAL SERVICE, GENERAL POWER, INTERIOR LIGHTING, AND EXTERIOR LIGHTING. THE CONTRACTOR SHALL PROVIDE THE ROUGH-IN OF THE CONDUIT SYSTEM AND OUTLET BOXES FOR THE COMMUNICATION SYSTEM.

1.3 INSPECTION OF SITE

THE CONTRACTOR SHALL INSPECT THE SITE OF THE NEW CONSTRUCTION AND PREMISES OF THE EXISTING BUILDING AND SHALL COMPARE CONDITIONS THEREIN WITH WORK SHOWN ON THE DRAWINGS. HE SHALL BECOME THOROUGHLY FAMILIAR WITH CONDITIONS WHICH WILL AFFECT HIS WORK, AS NO ALLOWANCE IS TO BE MADE FOR LACK OF KNOWLEDGE CONCERNING SUCH CONDITIONS AFTER THE CONTRACT IS SIGNED. HE SHALL REPORT IMMEDIATELY TO THE OWNER ANY DISCREPANCIES WHICH HIS INSPECTION MAY REVEAL DURING THE BIDDING PERIOD IN ORDER THAT MISUNDERSTANDINGS AT A LATER DATE MAY BE PREVENTED. THE CONTRACTOR SHALL SUGGEST, BASED ON HIS EXPERTISE, SOLUTION FOR THE DOCUMENTATION FOR THE ARCHITECT TO REVIEW PRIOR TO SUBMISSION OF HIS PROPOSAL. ACCEPTANCE BY THE CONTRACTOR OF THE DESIGN DOCUMENTATION AS EVIDENCED BY THE ACCEPTANCE OF THE CONTRACTOR'S PROPOSAL BY THE OWNER SHALL INDICATE THAT THE WORK CAN BE ACCOMPLISHED IN ACCORDANCE WITH THE DOCUMENTATION. EXCEPT FOR UNFORESEEN ITEMS, THE CONSTRUCTION COST AND DOCUMENTATION RESULTING FROM CHANGES INCURRED AS A RESULT ON UNINTENTIONAL OMISSIONS BY THE ARCHITECTURAL DESIGN/CONSTRUCTION DOCUMENTATION AFTER AWARD SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THIS DOES NOT ALLEVIATE THE CONTRACTOR FROM PROVIDING SUCCESSFULLY INSPECTED, FULLY FUNCTIONAL SYSTEMS.

1.4 CODES, PERMITS, AND INSPECTIONS

WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST PUBLISHED NATIONAL ELECTRIC CODE, NATIONAL ELECTRIC SAFETY CODE, STATE OF ALABAMA BUILDING CODES, AND OTHER NATIONAL, LOCAL, AND STATE LAWS, ORDINANCES RULES, AND REGULATIONS RELATING TO THE WORK. WHERE THE DRAWINGS OR SPECIFICATIONS EXCEED THESE REQUIREMENTS, THE SPECIFICATIONS SHALL GOVERN. IN NO CASE SHALL WORK BE INSTALLED CONTRARY TO OR BELOW THE MINIMUM LEGAL STANDARDS. THE CONTRACT SHALL INCLUDE PAYMENT OF PERMIT AND INSPECTION FEES REQUIRED FOR INSTALLATION OF THE ELECTRICAL WORK. ALSO INCLUDE THAT PORTION OF THE BUILDING PERMIT FOR WORK PERTAINING TO THIS BRANCH, WHERE APPLICABLE. WORK SHALL BE INSPECTED AND APPROVED BY THE INSPECTION AGENCY HAVING JURISDICTION AND A CERTIFICATE OF APPROVAL SHALL BE DELIVERED TO THE OWNER.

1.5 GUARANTEE

THIS CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIALS INSTALLED UNDER THIS CONTRACT FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. MATERIALS OR WORKMANSHIP PROVING TO BE DEFECTIVE DURING THIS PERIOD SHALL BE REPLACED BY THIS CONTRACTOR WITHOUT COST TO THE OWNER.

1.6 EQUIPMENT SELECTION AND APPROVAL

THE SELECTION OF MATERIALS AND EQUIPMENT TO BE FURNISHED UNDER THIS CONTRACT SHALL BE IN STRICT ACCORDANCE WITH THESE SPECIFICATIONS. WHERE TRADE NAMES, BRANDS, OR MANUFACTURER OF EQUIPMENT OR MATERIALS ARE LISTED IN THE SPECIFICATIONS, THE WORDS "OR APPROVED EQUAL" SHALL BE UNDERSTOOD TO APPEAR THEREAFTER. APPROVAL OF EQUALITY IS REQUIRED BY THE OWNER.

1.7 SHOP DRAWINGS

THE CONTRACTOR SHALL SUBMIT 3 SETS OF SHOP DRAWINGS, WHICH SHALL INCLUDE EQUIPMENT FURNISHED AS APPLICABLE TO HIS DISCIPLINE. THE SHOP DRAWINGS SHALL INCLUDE BUT NOT BE LIMITED TO SERVICE ENTRANCE EQUIPMENT, POWER PANELS OR LOAD CENTERS, LIGHT FIXTURES, AND OUTLET DEVICES.

1.8 LOCATION COORDINATION

COORDINATE WORK WITH OTHER TRADES TO AVOID CONFLICT AND TO PROVIDE CORRECT ROUGH-IN AND CONNECTION FOR EQUIPMENT FURNISHED UNDER OTHER TRADES THAT REQUIRE ELECTRICAL CONNECTIONS. VERIFY EQUIPMENT DIMENSIONS AND REQUIREMENTS WITH PROVISIONS SPECIFIED UNDER THIS SECTION.

1.9 PROTECTION OF EQUIPMENT

THIS CONTRACTOR SHALL BE ENTIRELY RESPONSIBLE FOR THE PROTECTION OF HIS MATERIALS AND EQUIPMENT DURING ALL STAGES OF CONSTRUCTION, BOTH BEFORE AND AFTER INSTALLATION, UNTIL THE WORK IS ACCEPTED BY THE OWNER.

1.10 SITE CLEANUP

AFTER ALL OTHER WORK HAS BEEN ACCOMPLISHED, CLEAN ALL EXPOSED CONDUIT, FIXTURES, EQUIPMENT, AND SUPPORT. TOUCH UP PAINT ON ANY EQUIPMENT SCRAPED, SCRATCHED OR DAMAGED DURING CONSTRUCTION. LEAVE ALL AREAS INVOLVING ELECTRICAL WORK IN A CONDITION SATISFACTORY TO THE OWNER. REMOVE ALL CRATES, CARDBOARD, PACKING MATERIAL, WASTE MATERIAL, AND OTHER DEBRIS LEFT OVER FROM CONSTRUCTION. ALL DEBRIS SHOULD BE REMOVED FROM THE SITE ON A DAILY BASIS.

1.11 BUILDING SERVICE

THE CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS WITH AND MEET ALL REQUIREMENTS OF PUBLIC SERVICE TO OBTAIN THE 400 AMP 120/240 VOLT, SINGLE PHASE, THREE WIRE ELECTRIC SERVICE FOR THE BUILDING. THE OWNER SHALL PROVIDE TO THE ELECTRICAL CONTRACTOR A SINGLE POINT OF CONTACT TO ENSURE COORDINATION OF ALL ELECTRICAL SERVICE REQUIREMENTS.

1.12 TEMPORARY SERVICE FOR CONSTRUCTION

THIS CONTRACTOR SHALL MAKE APPLICATION TO THE USER FOR TEMPORARY ELECTRIC SERVICE. THIS SERVICE SHALL BE USED UNTIL THE NEW SERVICE IS ENERGIZED. THE CONTRACTOR SHALL FURNISH, INSTALL, AND PAY FOR ALL NECESSARY WIRE, METERING, POLES, SWITCHES, RECEPTACLES, LIGHTS, AND ACCESSORIES TO PROVIDE A TEMPORARY ELECTRIC SERVICE. THE CONTRACTORS ON THE PROJECT REQUIRING EXTENSION CORDS SHALL PROVIDE THEIR OWN CORDS AND PLUGS UP TO CAPACITY OF 20 AMPERES. THIS CONTRACTOR SHALL MAINTAIN THE TEMPORARY LIGHT AND POWER SYSTEM FOR THE DURATION OF THE WORK AND SHALL REMOVE IT FROM THE SITE WHEN DIRECTED. TEMPORARY WIRING AND EQUIPMENT SHALL REMAIN THE PROPERTY OF THIS CONTRACTOR. THE COMPLETE TEMPORARY SERVICE SHALL COMPLY WITH OSHA REQUIREMENTS.

PART 2 – PRODUCTS

2.1 MATERIAL APPROVAL

ALL MATERIALS MUST BE NEW AND BEAR U.L. LABEL. MATERIALS THAT ARE NOT COVERED BY UL TESTING STANDARDS SHALL BE TESTED AND APPROVED BY AN INDEPENDENT TESTING LABORATORY OF A GOVERNMENTAL AGENCY APPROVED BY THE AUTHORITY HAVING JURISDICTION.

2.2 WIRES AND CABLES

CONDUCTORS FOR 600V SYSTEMS AND BELOW SHALL BE STRANDED COPPER. THE MINIMUM WIRE SIZE SHALL BE #12 AWG. WIRE AMPACITY SHALL BE EQUAL TO OR GREATER THAN THE OVERCURRENT PROTECTIVE DEVICE SERVING THAT CIRCUIT. WIRE SIZE SHALL BE INCREASED TO COMPENSATE FOR VOLTAGE DROP BASED ON PHYSICAL ROUTING OF CABLE. INSULATION SHALL BE THWN FOR WET LOCATIONS AND THHN FOR DRY LOCATIONS.

2.3 JUNCTION AND PULL BOXES

BOXES SHALL BE CODE GAUGE, CONSTRUCTED OF GALVANIZED STEEL WITH SCREWED COVERS. JUNCTION BOXES AND PULL BOXES SHALL BE SO LOCATED AS TO BE ACCESSIBLE. WHERE A NATURAL MEANS OF ACCESS IS NOT AVAILABLE, HINGED METAL ACCESS COVERS MATCHING THE CEILING FINISH SHALL BE PROVIDED BY THIS CONTRACTOR. ACCESS COVERS SHALL BE FLUSH TYPE WITH HINGED DOOR AND RIGID FRAME, WITH SCREWDRIVER LOCK. A REMOVABLE PAN OR LAY-IN CEILING SHALL BE CONSIDERED AS ADEQUATE MEANS OF ACCESS TO BOXES. ACCESS PANEL SHALL BE MILCOR "M" OR "DIV" OR APPROVED EQUAL.

2.4 OUTLET BOXES

CONDUIT BOXES SHALL BE CAST ALUMINUM, GALVANIZED OR CADMIUM PLATED STEEL AS MANUFACTURED BY STEEL CITY, APPLETON, CROUSE HINDS, RUSSELL & STOLL, OR RACO. FIXTURE OUTLET BOXES SHALL BE A STANDARD 4" X 2" DEEP, OCTAGONAL OR SQUARE WITH 3/8" FIXTURE STUDS. DEVICE OUTLET BOXES SHALL BE NOMINAL 2" X 4" WHERE TWO WIRES TERMINATE. WHERE WIRING IS CONTINUOUS AND MORE THAN TWO ENTER, BOXES SHALL BE 4" SQUARE. PROVIDE SINGLE GANG PLASTER RING EXTENSIONS FOR 4" SQUARE BOXES WHERE INSTALLED IN PLASTERED WALLS. DEVICE OUTLET BOXES LOCATED IN MASONRY WALLS SHALL BE 4" SQUARE AND HAVE SQUARE CORNERS WITH NO EXTERNAL EARS.

OUTLET AND DEVICE BOXES SHALL BE RIGIDLY ATTACHED TO THE CEILING OR WALL CONSTRUCTION BY MEANS OF STEEL STRAPS SECURED TO STUDS OR CHANNELS BY MEANS OF SCREWS, BOLTS, OR WIRE. BOXES SHALL BE ALIGNED TRUE TO BUILDING LINES. MOUNTING HEIGHTS AND DIMENSIONS SHALL BE CONSIDERED TO BE AT THE CENTER LINE OF THE BOX. OUTLET AND DEVICE BOXES SHALL NOT BE MOUNTED BACK TO BACK IN COMMON WALLS. WATER TIGHT JUNCTION BOXES, BONDING JUMPERS, ETC., SHALL BE PROVIDED WHEREVER THE CONSTRUCTION DICTATES SUCH DEVICES.

FLOOR BOXES SHALL BE CAST METAL OR FORMED STEEL. FLOOR BOXES SHALL BE FULLY ADJUSTABLE OR SEMI-ADJUSTABLE AND SHALL COMPLY WITH NEMA OS 1. ACCEPTABLE MANUFACTURES ARE WIREMOLD CO., WALKER, INC. OR HUBBELL. FLUSH COVER TYPE COMBINATION FITTING SHALL BE BRASS OR ALUMINUM. THE FITTING SHALL BE AESTHETICALLY COMPATIBLE WITH THE ADJACENT FLOOR FINISH AND SHOULD BE APPROVED BY ARCHITECT. USE CAST FLOOR BOXES FOR INSTALLATIONS IN SLAB ON GRADE; FORMED STEEL BOXES ARE ACCEPTABLE FOR OTHER INSTALLATIONS. INSTALL BOXES AND FITTINGS TO PRESERVE FIRE RESISTANCE RATING OF SLABS AND OTHER ELEMENTS, USING MATERIALS AND METHODS.

2.5 WIRING DEVICES

ALL WIRING DEVICES OF ANY ONE GENERAL TYPE SHALL BE OF THE SAME MANUFACTURER AND SHALL MATCH THROUGHOUT. WIRING DEVICES SHALL BE AS MANUFACTURED BY HUBBELL, GE, LEVITION, P & S, OR BRYANT. COVER PLATES SHALL BE AS MANUFACTURED BY ARROW HART, SIERRA, LEVITON, OR MULLBURRY. THE COLOR SHALL BE IVORY UNLESS SPECIFIED OTHER WISE BY ARCHITECT.

WHERE INDICATED, PROVIDE SPECIFICATION GRADE, DUPLEX RECEPTACLES, GROUND-FAULT CIRCUIT INTERRUPTERS; GROUND TYPE, UL-RATED CLASS A GROUP 1, 20 AMPERES RATING, 120 VOLTS. THE COLOR SHALL BE IVORY UNLESS SPECIFIED OTHERWISE BY ARCHITECT. SWITCHES SHALL BE FLUSH WALL TYPE. TWO, THREE AND FOUR-WAY 120-VOLT SWITCHES SHALL BE SPECIFICATION GRADE, TOGGLE HANDLE, WITH TOTALLY ENCLOSED CASE, RATED 20 AMPERE, TUNGSTEN, 60 HERTZ AND CONTAIN SWITCHING ARRANGEMENT INDICATED ON DRAWINGS. ALL LIGHT SWITCHES SHALL HAVE A COVER TO PREVENT INCIDENTAL CONTACT. THE COLOR SHALL BE IVORY UNLESS SPECIFIED OTHER WISE BY ARCHITECT.

2.6 WIRE CONNECTORS

CONNECTIONS SHALL BE MADE USING PRESSURE TYPE TERMINALS. WHERE CONNECTIONS OF STRANDED WIRE ARE TO BE MADE TO DEVICES OR EQUIPMENT UNDER SCREW HEADS ONLY, INSTALL INSULATED CRIMP TYPE SPADE CLIPS ON THE WIRE ENDS BEFORE THE CONNECTIONS ARE MADE. CONNECTORS SHALL CONTAIN ONLY ONE WIRE UNLESS THEY ARE APPROVED FOR MULTIPLE CONDUCTORS.

2.7 PANELBOARD

PANELBOARDS SHALL BE AS MANUFACTURED BY SQUARE D, GE, SIEMENS, OR CUTLER HAMMER. PROVIDE PANELBOARDS AS INDICATED ON SCHEDULES WITH THE FOLLOWING FEATURES: HARD-DRAWN COPPER BUS, MECHANICAL-TYPE MAIN AND NEUTRAL LUGS, NEUTRAL BUS RATED 100 PERCENT OF PHASE BUS, GROUND BUS BONDED TO ENCLOSURE, BOLT-ON MOLDED-CASE THERMAL-MAGNETIC BREAKERS. PROVIDE A PHENOLIC NAMEPLATE ON THE VISIBLE FACE INDICATING THE PANEL NAME IN 3/8" LETTERS. PROVIDE A TYPE WRITTEN PANEL DIRECTORY THAT IS FULLY VISIBLE WHEN THE PANEL DOOR IS OPEN. THE PANEL DIRECTLY SHALL INDICATE THE LOADS SERVED BY ALL CIRCUIT BREAKERS INSTALLED IN THE PANELBOARD, THE SOURCE OF POWER TO THE PANELBOARD, THE SIZE OF THE PANEL BOARD, SIZE OF THE MAIN BREAKER IF INSTALLED, VOLTAGE, PHASE, AND NUMBER OF WIRES SERVING THE PANELBOARD.

2.8 WARNING SIGNS

PROVIDE WARNING SIGNS FOR FLASH PROTECTION IN ACCORDANCE WITH NFPA 70E AND NEMA Z535.4 FOR PANELBOARDS, CIRCUIT BREAKER ENCLOSURES, LOAD CENTERS, AND ANY OTHER ELECTRICAL EQUIPMENT THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED. PROVIDE FIELD INSTALLED SIGNS TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS WHEN WARNING SIGNS ARE NOT PROVIDED BY THE MANUFACTURER. PROVIDE MARKING THAT IS CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.

2.9 RACEWAYS

ALL DISTRIBUTION AND SERVICE WIRING SHALL BE RUN IN CONDUIT, IN MASONRY WALLS, ON EXPOSED SURFACES, IN POURED CONCRETE, AND WHERE UNDERGROUND. CONDUIT MAY BE RIGID GALVANIZED OR PLATED STEEL, INTERMEDIATE GRADE STEEL (IMC), RIGID ALUMINUM, GALVANIZED, OR PLATED THINWALL ELECTRIC METALLIC TUBING OR TYPE EPC-40 RIGID POLYVINYL CHLORIDE (PVC), SUBJECT TO THE FOLLOWING CONDITIONS. CONDUIT SHALL CONFORM TO ANSI AND NEMA REQUIREMENTS AND EACH LENGTH SHALL BE UL LABELED. DO NOT USE ALUMINUM IN POURED CONCRETE OR UNDERGROUND, EMT IS NOT APPROVED FOR INSTALLATION UNDERGROUND OR EXPOSED TO WEATHER. EXPOSED CONDUITS IN EQUIPMENT ROOMS, STORAGE ROOMS, JANITOR ROOMS, AND SIMILAR SPACES MAY BE EMT, IMC, OR RIGID.

FLEXIBLE METAL CONDUIT EQUAL TO GREENFIELD MAY BE USED FOR CONNECTIONS TO LIGHTING FIXTURES, WITH LENGTH LIMITED TO 6 FT., HORIZONTAL RUNS THROUGH STUD WALLS, IN NARROW MOVABLE PARTITIONS WHERE OTHER RACEWAYS ARE NOT PRACTICABLE WHEN SO APPROVED BY THE OWNER OR ENGINEER, AND CONNECTIONS TO MOTORS OR CONTROLS ON DYNAMIC EQUIPMENT. NOTE THAT FLEXIBLE MOTOR CONNECTIONS IN WET, DAMP, DUSTY, OR OUTSIDE LOCATIONS SHALL BE WATER AND DUST TIGHT TYPE FITTINGS APPROVED FOR WET LOCATIONS.
CONDUIT SHALL BE 3/4" DIAMETER OR LARGER EXCEPT 1/2" SIZE MAY BE USED WHERE FLEXIBLE CONDUIT IS ALLOWED, FOR SWITCH LEGS, AND WHEN CONDUIT CARRIES CONTROL WIRING ONLY

2.10 LIGHT FIXTURES

PROVIDE LIGHT FIXTURES AS SHOWN IN LIGHTING FIXTURE SCHEDULE. PROVIDE LAMPS IN EACH FIXTURE. ONLY THE NUMBER OF LAMPS REQUIRED TO PROVIDE TEMPORARY LIGHTING SHALL BE INSTALLED AT THE TIME FIXTURES ARE INSTALLED AND TESTED. REMAINING LAMPS SHALL BE INSTALLED NOT MORE THAN TEN (10) DAYS PRIOR TO FINAL ACCEPTANCE OF THE PROJECT BY THE OWNER. LAMPS SHALL BE OPERATING AT THE TIME OF FINAL ACCEPTANCE AND DEFECTIVE LAMPS SHALL BE REPLACED BY THIS CONTRACTOR. LAMPS SHALL BE MANUFACTURED BY G.E., WESTINGHOUSE, OR SYLVANIA.

PART 3 – EXECUTION

3.1 GENERAL

ELECTRIC SYSTEM LAYOUTS INDICATED ON THE DRAWINGS ARE DIAGRAMMATIC, BUT SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION AND WORK OF OTHER TRADES WILL ALLOW. COORDINATE LOCATIONS OF ELECTRICAL EQUIPMENT, DEVICES, OUTLETS, FIXTURES, ETC., WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REFLECTED CEILING PLANS PRIOR TO ROUGH-IN WORK. ALL HOME RUNS ARE INDICATED AS STARTING FORM THE DEVICE NEAREST THE PANEL AND CONTINUING IN THE GENERAL DIRECTION OF THE PANEL. OBTAIN PRIOR APPROVAL FROM ARCHITECT AND CONFORM TO ALL STRUCTURAL REQUIREMENTS WHEN CUTTING OR BORING OF THE STRUCTURE OR STRUCTURAL MEMBERS IS REQUIRED. CONDUITS LEAVING OR ENTERING THE BUILDING SHALL BE SEALED PER THE NATIONAL ELECTRICAL CODE TO PREVENT THE ENTRANCE OF MOISTER.

3.2 ELECTRICAL GROUNDING

THE ENTIRE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH NEC REQUIREMENTS. CONDUITS AND ASSOCIATED FITTINGS AND TERMINATIONS SHALL BE MADE MECHANICALLY TIGHT TO PROVIDE A CONTINUOUS ELECTRICAL PATH TO GROUND AND SHALL BE SAFELY GROUNDED AT ALL EQUIPMENT BY BONDING ALL METALLIC CONDUIT TO THE EQUIPMENT ENCLOSURES WITH LOCKNUTS CUTTING THROUGH PAIN ON ENCLOSURES. BOND ALL CONDUITS ENTERING SERVICE ENTRANCE SWITCHBOARD WITH A GROUND WIRE CONNECTING THE GROUNDING TYPE BUSHINGS TO THE EQUIPMENT GROUND BAR. GROUND CONDUCTORS SHALL IDENTIFIED BY GREEN INSULATION OR BY PAINTING GREEN AT ALL ACCESSIBLE LOCATIONS AND SHALL BE CONNECTED WITH APPROVED CONNECTORS AND TERMINATORS TO BOXES, DEVICES, EQUIPMENT, ETC., AND TO GROUND BARS IN PANELS. THE BUILDING NEUTRAL SHALL BE INDENTIFIED THROUGHOUT WITH WHITE CONDUCTORS.

3.3 RACEWAY AND CABLE INSTALLATION

CONDUIT SHALL BE RUN CONCEALED UNLESS OTHERWISE INDICATED OR SPECIAL PERMISSION GRANTED FROM THE OWNER. WHERE CONDUIT IS EXPOSED, IT SHALL BE RUN PARALLEL OR PERPENDICULAR TO THE BUILDING LINES. BENDS AND OFFSETS SHALL BE AVOIDED WHERE POSSIBLE. WHEN REQUIRED, RADII FOR CONDUITS SHALL NOT BE LESS THAN STIPULATED BY CODE. TERMINATIONS OF ALL CONDUITS SHALL BE SECURED BY LOCKNUTS AND APPROVED BUSHINGS TIGHTENED UP TO SECURE ELECTRICAL AS WELL AS MECHANICAL INTEGRITY OF THE CONDUIT NETWORK. FASTEN CONDUIT SECURELY TO THE BUILDING STRUCTURE THROUGHOUT BY MEANS OF HEAVY DUTY STRAP HANGERS AND CLAMPS ATTACHED TO THE BASIC BUILDING STRUCTURE. SMALLER BRANCH CIRCUIT CONDUIT MAY BE SECURED BY MEANS OF GALVANIZED METAL CLAMPS AND SCREWS ATTACHED TO CONCRETE OR JOISTS. WIRE SHALL NOT BE USED FOR SUSPENDING CONDUIT. VERTICAL CONDUIT RUN SHALL BE SUPPORTED WITH CLAMPS AT EACH FLOOR LEVEL TO PREVENT BOTH LATERAL AND VERTICAL SHIFTING.

OPEN ENDS OF CONDUIT STUBS SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SPECIAL CARE SHALL BE TAKEN TO PREVENT DAMAGE TO THE CONDUIT DURING CONCRETE POURING. EMPTY CONDUIT INSTALLATION FOR USE BY OTHERS SUCH AS TELEPHONE OR FUTURE SYSTEMS, ETC., SHALL BE COMPLETE WITH PULL WIRE. A MANDREL SHALL BE PULLED THROUGH EACH FEEDER CONDUIT TO ASSURE AGAINST FOREIGN OBJECTS REMAINING INSIDE.

3.4 EQUIPMENT SUPPORTS

PROVIDE STRUCTURAL STEEL FRAMEWORK AND HANGING RODS WITH BRACES AND ACCESSORIES WHERE SHOWN OR WHERE REQUIRED TO HOLD EQUIPMENT IN FINAL POSITION. PROVIDE STEEL STRAPS AND FRAMES TO SUPPORT WALL MOUNTED EQUIPMENT WHERE THE NORMAL WALL STRENGTH MAY BE INADEQUATE. ELECTRICAL DEVICES, MOTORS STARTERS, DISCONNECT SWITCHES, ETC. SHALL BE SUPPORTED INDEPENDENT OF AND ISOLATED FROM EQUIPMENT VIBRATION.

3.5 EXCAVATION AND BACKFILL

THE CONTRACTOR SHALL PROVIDE EXCAVATION AS FOLLOWS FOR THE UNDERGROUND SERVICES FOR THIS PROJECT. TRENCHES SHALL BE OPENED IN STRAIGHT LINES AND BOTTOM OUT AT LEAST 4" BELOW CONDUITS OR DUCTS AND LEVELED WITH COMPACTED GRANULAR MATERIAL. UNLESS OTHERWISE INDICATED, THE MINIMUM DEPTH SHALL BE AS DEFINED BY THE NATIONAL ELECTRICAL CODE AND SHALL BE MAINTAINED BETWEEN TOP OF LARGEST CONDUIT OR DUCT AND FINISH GRADES. THE CONTRACTOR SHALL REMOVE ROCKS, DEBRIS, ETC., IN THE LINE OF THE EXCAVATION AND SHALL REMOVE SAME ITEMS FROM PROJECT SITE. THE CONTRACTOR SHALL CUT ANY INTERFERING TREES, REMOVE ALL STUMPS, ROCKS, ETC., IN THE LINE OF THE EXCAVATION. APPROVAL OF THE OWNER SHALL BE OBTAINED BEFORE ANY TREE IS REMOVED. ANY SHRUBBERY IN LINE OF EXCAVATION SHALL BE REMOVED WITH A BALL OF DIRT AND REPLACED AT COMPLETION OF EXCAVATION. WHERE EXCAVATION CROSSES EXISTING LAWNS, CONTRACTOR SHALL REMOVE SOD, PROPERLY STORE AND REPLACE SOD AT COMPLETION OF EXCAVATION. CARE SHALL BE EXERCISED DURING THE WORK TO SEE THAT NO UNNECESSARY DAMAGE OCCURS, IN THE OPINION OF THE OWNER, THE CONTRACTOR SHALL BE REQUIRED TO RECONDITION LAWNS AT HIS OWN EXPENSE. WHERE EXISTING SIDEWALKS, DRIVES, AND ROADWAYS MUST BE CUT, THEY SHALL BE SAW-CUT IN STRAIGHT LINES AT EXISTING EXPANSION JOINT OR CONTROL JOINT AND SHALL PRESENT A NEAT APPEARANCE WHEN RE-LAID AND SHALL MATCH EXISTING WORK. THE CONTRACTOR SHALL LOCATE EXISTING ELECTRIC FEEDERS, GAS LINES, WATER LINES, SANITARY LINES, AND ANY OTHER EXISTING UNDERGROUND SERVICE LINES BEFORE THE EXCAVATION IS STARTED. ALL RESPECTIVE SERVICE LINES SHALL BE STAKED AND THE TRENCH SHALL BE OPENED BY HAND AT THE LOCATIONS OF THE ABOVE SERVICES.

BACKFILLING INCLUDED IN THE ELECTRICAL CONTRACT SHALL INCLUDE TRENCHES WHICH ARE EXCAVATED UNDER THIS CONTRACT. BACKFILLING SHALL BE CAREFULLY PERFORMED AND THE SURFACE RESTORED TO ITS ORIGINAL LEVEL AS NEARLY AS POSSIBLE. THE TRENCHES SHALL BE BACKFILLED WITH THE EXCAVATED MATERIAL, FREE FROM LARGE CLODS OR STONES, EXCEPT BACKFILL OVER SERVICES IN PAVED, OR OTHER HARD GRADED MATERIAL TO PREVENT UNDUE SETTLEMENT. ALSO, THE INTERIOR TRENCHES SHALL BE BACKFILLED WITH GRADED GRAVEL. ALL EXCESS EXCAVATED MATERIAL SHALL BE REMOVED. ALL TRENCHES SHALL BE MECHANICALLY COMPACTED IN LAYERS NOT OVER 6" DEEP. WATER SETTLING WILL BE PERMITTED ONLY AS AN AID TO MECHANICAL COMPACT. WHEREVER THE TRENCHES HAVE NOT BEEN PROPERLY FILLED OR SETTLEMENT OCCURS, THEY SHALL BE REFILLED, COMPACTED, SMOOTHED OFF, AND FINALLY MADE TO CONFORM TO THE ORIGINAL SURFACE OF THE GROUND. PAVING, SIDEWALKS, CURBS, SODDED, AND OTHER FINISHED SURFACES WHICH ARE BROKEN AND REMOVED BY THIS CONTRACTOR IN ORDER TO INSTALL THE UTILITIES, SHALL BE REPLACED BY THIS CONTRACTOR AT HIS EXPENSE, EQUAL TO ITS ORIGINAL CONDITION. THIS REQUIREMENT IS NOT APPLICABLE IN AREAS WHERE THE GENERAL CONTRACTOR OR THE SITE CONTRACTOR ARE OBLIGATED TO FURNISH NEW SURFACES. BACKFILL AND SURFACE REPAIR OF ROADWAY SHALL BE IN ACCORDANCE WITH GOVERNING AGENCY RULES AND REGULATIONS AND ANY FEES FOR CROSSING THE ROADWAY SHALL BE INCLUDED IN THIS CONTRACT SO THAT NO ADDITIONAL COST WILL ACCRUE TO THE OWNER. BACKFILL UNDER BUILDING WALLS OR FOOTERS SHALL BE CONCRETE OF SAME STRENGTH AS WALLS OR FOOTERS.

3.6 RECORD DRAWINGS

THIS CONTRACTOR SHALL KEEP AN ACCURATE RECORD OF ANY DEVIATIONS OF CONSEQUENCE FROM THE CONTRACT DRAWINGS AND SPECIFICATIONS. HE SHALL NEATLY AND CORRECTLY ENTER, IN COLORED PENCIL, ANY DEVIATIONS ON DRAWINGS AFFECTED AND SHALL KEEP THESE DRAWINGS AVAILABLE FOR INSPECTION. AT COMPLETION OF THE JOB, AND BEFORE FINAL APPROVAL, THE CORRECTED SET OF DRAWINGS SHALL BE DELIVERED TO THE OWNER.

3.7 TESTS AND MAINTENANCE INSTRUCTIONS

FINAL INSPECTION AND OPERATIONAL TESTS OF ALL EQUIPMENT AND SYSTEMS SHALL BE MADE IN THE PRESENCE OF THE OWNER OR HIS AUTHORIZED REPRESENTATIVE. TESTS SHALL BE MADE UNDER CONDITIONS SIMULATING AS NEARLY AS PRACTICABLE THOSE WHICH ARE OBTAINED IN OPERATION, AND SHALL SHOW CONCLUSIVELY THAT THE REQUIREMENTS OF THE SPECIFICATIONS HAVE BEEN FULFILLED. THIS CONTRACTOR SHALL MEGGER TEST FEEDERS OR BRANCH CIRCUITS AS REQUIRED OR DESIRED BY THE OWNER. DATA TAKEN DURING SUCH TESTS SHALL BE SUBMITTED TO THE OWNER, TYPEWRITTEN, AND IN FOLDER FORM. INSTRUMENTS REQUIRED FOR TESTS SHALL BE FURNISHED BY THIS CONTRACTOR. SPECIAL SYSTEMS SHALL BE CHECKED OUT AND DETERMINED TO BE COMPLETE AND FUNCTIONING IN A MANNER AS REQUIRED BY THE SPECIFICATIONS AND DRAWINGS.

REV.	DATE	INITIAL

ELECTRICAL LEGEND AND SPECIFICATIONS

NEW SANCTUARY FOR ST. ELIZABETH CPCA

104 PERRY ST, MADISON, AL 35758

DRAWN: J. HALEY

REVIEWED: C. RAMSEY 256-684-9445

DATE: 18 FEB 2016

SCALE: NONE

E-1

SHEET 1 OF 6

ELECTRICAL SHEET NOTES

1. CONCEAL RECEPTACLES FOR WATER COOLERS BEHIND WATER COOLERS.
2. THE CONTRACTOR SHALL PROVIDE ONE (1)- 1 1/4 INCH CONDUITS WITH NYLON PULL STRINGS PROVIDED FROM 4" X 4" BOXES WITH BLANK FACEPLATE COVERS FLUSH WITH FLOOR OR WALL. BOXES ARE LOCATED IN THE SOUND BOOTH AND PULPIT. COORDINATE THE EXACT LOCATION OF JUNCTION BOX WITH THE OWNER/ARCHITECT PRIOR TO ROUGH IN.
3. BAPTISTRY POWER JUNCTION BOX. THE CONTRACTOR SHALL VERIFY WITH THE OWNER/ARCHITECT THE EXACT LOCATION, WIRE SIZE, CONDUIT SIZE, BREAKER SIZE, AND TYPE OF CONNECTION METHOD REQUIRED FOR THE UNIT PROVIDED PRIOR TO PURCHASE, FABRICATION OR INSTALLATION OF ANY ASSOCIATED ELECTRICAL EQUIPMENT/SERVICE TO THIS UNIT. THE CONTRACTOR IS REQUIRED TO PROVIDE ALL WIRING, CONDUIT, LABOR AND ALL MATERIALS ASSOCIATED WITH CONNECTION OF POWER TO THIS EQUIPMENT.
4. FLOOR OUTLET IN PULPIT. COORDINATE FINAL LOCATION OF FLOOR OUTLET WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
5. FLOOR OUTLET. COORDINATE FINAL LOCATION OF FLOOR OUTLET WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
6. OVERHEAD PROJECTOR POWER OUTLET AND JUNCTION BOX / CONDUIT SYSTEM FOR FUTURE PROJECTOR VIDEO WIRING. PROVIDE DUPLEX OUTLET MOUNTED FLUSH IN CEILING. PROVIDE A 4" X 4" BOX WITH A FACE PLATE FLUSH WITH THE CEILING AND A 1 1/4" CONDUIT WITH NYLON PULL STRING TO 4" X 4" JUNCTION BOX LOCATED IN THE SOUND BOOTH, FLUSH IN WALL WITH A BLANK FACE PLATE. COORDINATE THE EXACT LOCATION OF PROJECTOR LOCATIONS AND JUNCTION BOX LOCATIONS IN SOUND BOOTH WITH OWNER/ARCHIECT PRIOR TO ROUGH-IN.
7. POWER FOR SCREEN MOTOR. COORDINATE LOCATION AND FIELD WIRING REQUIREMENTS WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.

N

EXISTING BUILDING

EXISTING BUILDING

NORTH ENTRY PORCH

WOMEN'S RESTROOM

FOYER

SANCTUARY

PIANO SPACE

PULPIT/MUSIC PLATFORM

DRESS RM

BAPTISTRY

RR

MEN'S RESTROOM

ORGAN SPACE

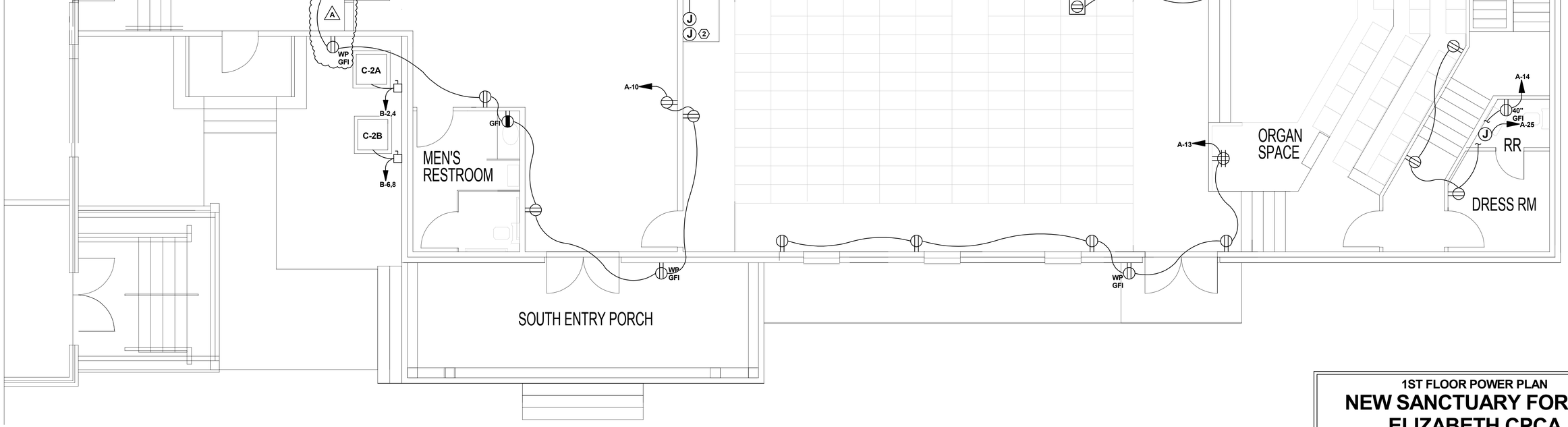
RR

DRESS RM

SOUTH ENTRY PORCH

C-1A B-1,3
C-1B B-5,7
C-3 B-13,15
C-2A B-2,4
C-2B B-6,8
C-4

WP GFI
GFI
GFI 40"
A-9
A-10
A-11
A12
A-13
A-14
A-15,17
A-16
A-19,21
A-22
A-23
A-24
A-25
A-26,28



1ST FLOOR POWER PLAN
SCALE: 1/4" = 1' - 0"

A ADDED CONNECTOR TO EXISTING BUILDING.

REV.	DATE	INITIAL
A	4 JAN 18	ACR

1ST FLOOR POWER PLAN

NEW SANCTUARY FOR ST. ELIZABETH CPCA

104 PERRY ST, MADISON, AL 35758

DRAWN: J. HALEY
REVIEWED: C. RAMSEY 256-684-9445
DATE: 18 FEB 2016
SCALE: 1/4" = 1' - 0"

ALABAMA REGISTERED No. 27309 PROFESSIONAL ENGINEER 2/18/2016 CHARLIE CLARK RAMSEY, JR.

E-2

SHEET 2 OF 6

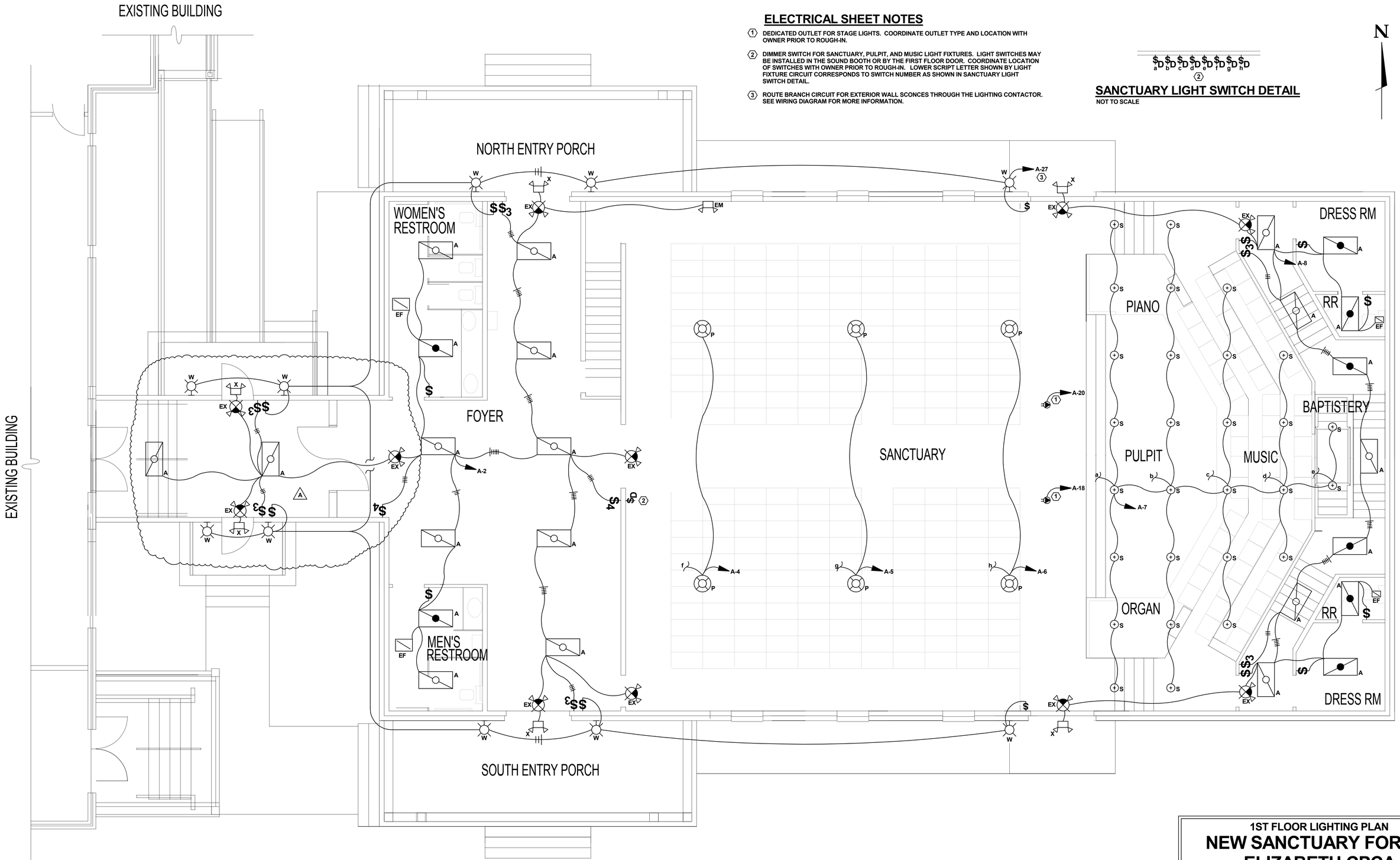
ELECTRICAL SHEET NOTES

1. DEDICATED OUTLET FOR STAGE LIGHTS. COORDINATE OUTLET TYPE AND LOCATION WITH OWNER PRIOR TO ROUGH-IN.
2. DIMMER SWITCH FOR SANCTUARY, PULPIT, AND MUSIC LIGHT FIXTURES. LIGHT SWITCHES MAY BE INSTALLED IN THE SOUND BOOTH OR BY THE FIRST FLOOR DOOR. COORDINATE LOCATION OF SWITCHES WITH OWNER PRIOR TO ROUGH-IN. LOWER SCRIPT LETTER SHOWN BY LIGHT FIXTURE CIRCUIT CORRESPONDS TO SWITCH NUMBER AS SHOWN IN SANCTUARY LIGHT SWITCH DETAIL.
3. ROUTE BRANCH CIRCUIT FOR EXTERIOR WALL SCONCES THROUGH THE LIGHTING CONTACTOR. SEE WIRING DIAGRAM FOR MORE INFORMATION.

$_a$D $_b$D $_c$D $_d$D $_e$D $_f$D $_g$D $_h$D
(2)

SANCTUARY LIGHT SWITCH DETAIL
NOT TO SCALE

N



1ST FLOOR LIGHTING PLAN
SCALE: 1/4" = 1' - 0"

A ADDED CONNECTOR TO EXISTING BUILDING.

REV.	DATE	INITIAL
A	4 JAN 18	ACR

1ST FLOOR LIGHTING PLAN

NEW SANCTUARY FOR ST. ELIZABETH CPCA

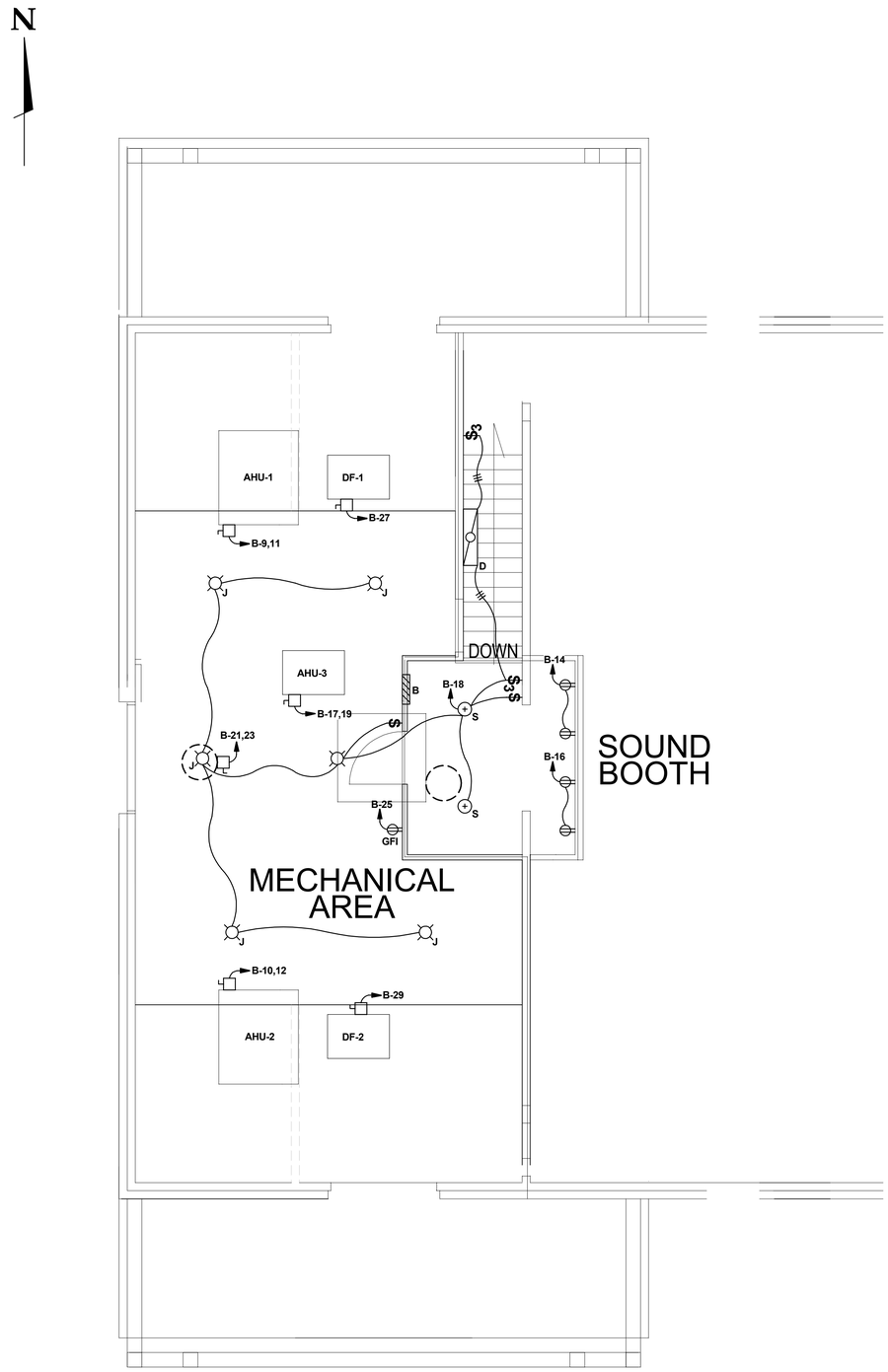
104 PERRY ST, MADISON, AL 35758

DRAWN: J. HALEY
REVIEWED: C. RAMSEY 256-684-9445
DATE: 18 FEB 2016
SCALE: 1/4" = 1' - 0"

ALABAMA REGISTERED No. 27309 PROFESSIONAL 2/18/2016 ENGINEER CHARLIE CLARK RAMSEY, JR.

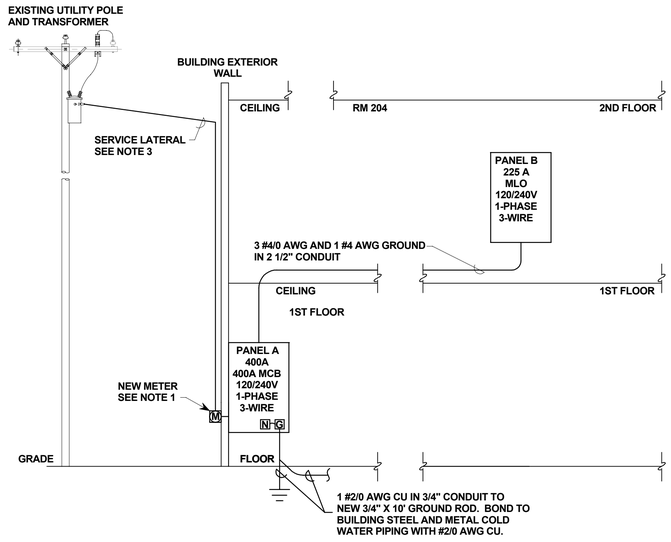
E-3

SHEET 3 OF 6



MEZZANINE POWER & LIGHTING PLAN

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



RISER DIAGRAM

NOT TO SCALE

PANELBOARD **A** LOCATION: **BAPTISTRY** MAIN: **400 A** VOLTAGE: **120/240 VOLTS**
SUPPLIED FROM: **UTILITY** FEED: **BOTTOM** MAIN CKT BKR: **400 A** PHASE: **1**
MOUNTED: **SURFACE** ASYM A.I.C MIN.: **10 K** WIRE: **3**

LOAD SERVED	NO. POLES	TRIP AMPS	WIRE SIZE	VA/ PHASE A	VA/ PHASE B	CKT NO.	CKT NO.	VA/ PHASE A	VA/ PHASE B	WIRE SIZE	TRIP AMPS	NO. POLES	LOAD SERVED
PANEL "B"				22373		1	2	861		12	20	1	LTS LOBBY, RSTRMS
					21677	3	4		1116	12	20	1	LTS REAR SANCT
LTS MID SANCT	1	20	12	1116		5	6	1116		12	20	1	LTS FRONT SANCT
LTS PULPIT, CHIOR	1	20	12		1344	7	8		740	12	20	1	LTS BAPT, DR,CORR
LOBBY WTR FOUNT	1	20	12	528		9	10	1260		12	20	1	RECP LOBBY
RECP LOBBY, SANCT	1	20	12		1260	11	12		1260	12	20	1	RECP SANCT, PULPIT
RECP SANCT, PULPIT	1	20	12	1260		13	14	720		12	20	1	RECP BAPT,CORR, DR
** AHU-4	2	25	12		2070	15	16		900	12	20	1	RECP BAPT,CORR, DR
				2070		17	18	1800		12	20	1	STAGE LIGHTS
** C-4	2	15	12		817	19	20		1800	12	20	1	STAGE LIGHTS
				817		21	22	180		12	20	1	OVERHEAD PROJECTOR
P9 WATER HEATER	1	35	8		3000	23	24		1518				SCREEN MOTOR
P9 WATER HEATER	1	35	8	3000		25	26	2750					
LTS BUILDING EXTERIOR	1	20	12		1612	27	28		2750	10	30	2	BAPTISTRY ***
PARKING LOT POLE LIGHTS	2	20	10	912		29	30	1200		12	20	1	BUILDING SIGN
					912	31	32						
						33	34						
						35	36						
						37	38						
						39	40						
						41	42						
				32076	32692			9887	10084				

ABBREVIATIONS:
RECP-RECEPTACLE, LTS-LIGHTS, MLO-MAIN LUG ONLY

TOTAL VA PHASE A: 41,963
TOTAL VA PHASE B: 42,776

TOTAL CONNECTED: 84,738

*** PROVIDE BREAKER CAPABLE OF BEING LOCKED IN THE OPEN POSITION**
**** PROVIDE HEATING, AIR CONDITIONING, REFRIGERATION TYPE CIRCUIT BREAKERS FOR HVAC UNITS**
***** PROVIDE GROUND FAULT INTERUPTING TYPE CIRCUIT BREAKER**

PANELBOARD **B** LOCATION: **SOUND BOOTH** MAIN: **225 A** VOLTAGE: **120/240 VOLTS**
SUPPLIED FROM: **UTILITY** FEED: **BOTTOM** MAIN CKT BKR: **MLO** PHASE: **1**
MOUNTED: **RECESSED** ASYM A.I.C MIN.: **10 K** WIRE: **3**

LOAD SERVED	NO. POLES	TRIP AMPS	WIRE SIZE	VA/ PHASE A	VA/ PHASE B	CKT NO.	CKT NO.	VA/ PHASE A	VA/ PHASE B	WIRE SIZE	TRIP AMPS	NO. POLES	LOAD SERVED
** C-1A	2	60	4	3197		1	2	3197					
					3197	3	4		3197	4	60	2	C-2A **
** C-1B	2	60	4	3197		5	6	3197					
					3197	7	8		3197	4	60	2	C-2B **
** AHU-1	2	15	12	955		9	10	955					
					955	11	12		955	12	15	2	AHU-2 **
** C-3	2	45	6	2392		13	14	360		12	20	1	RECP SOUND BOOTH
					2392	15	16		360	12	20	1	RECP SOUND BOOTH
** AHU-3	2	50	6	4416		17	18	516		12	20	1	LTS MECH, SOUND BTH
					4416	19	20						
WATER HEATER P10	2	30	10	2250		21	22						
					2250	23	24						
RECP MECH	1	20	12	180		25	26						
						27	28						
						29	30						
						31	32						
						33	34						
						35	36						
						37	38						
						39	40						
						41	42						
				16587	16407			8225	7709				

ABBREVIATIONS:
REC-RECEPTACLE, LGT-LIGHTS, MLO-MAIN LUG ONLY

TOTAL VA PHASE A: 24,811
TOTAL VA PHASE B: 24,115

TOTAL CONNECTED: 48,926

**** PROVIDE HEATING, AIR CONDITIONING, REFRIGERATION TYPE CIRCUIT BREAKERS FOR HVAC UNITS**

POWER RISER DIAGRAM NOTES:

1. **METER BASE SPECIFIED BY UTILITY COMPANY AND INSTALLED BY CONTRACTOR. GROUND METER BASE IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS. CONTRACTOR SHALL PROVIDE ALL COMPONENTS REQUIRED BY THE UTILITY COMPANY.**
2. **NEW SERVICE LATERAL WITH 2 PARALLEL SETS OF # 1/0 TRIPLEX ALUMINUM SERVICE DROP CONDUCTORS. INSTALL SERVICE LATERAL CONDUCTORS IN A NEW WEATHERHEAD CONNECTED TO NEW METER. WEATHERHEAD AND SERVICE INSTALLATION SHALL BE PER UTILITY COMPANY REQUIREMENTS. CONTRACTOR SHALL COORDINATE THE CONNECTION TO THE UTILITY TRANSFORMER WITH THE UTILITY COMPANY. ALL OTHER CONDUCTORS SHALL BE COPPER UNLESS OTHERWISE NOTED.**
4. **ARRANGE WITH THE LOCAL UTILITY COMPANY FOR A 400 AMP, 120/240 VOLT, SINGLE PHASE, THREE WIRE ELECTRICAL SERVICE TO BE BROUGHT TO THE BUILDING, AND COORDINATE COMPLETE REQUIREMENTS FOR CONNECTION TO UTILITY POWER PRIOR TO PURCHASE FABRICATIONS AND INSTALLATION OF SERVICE EQUIPMENT AND WIRING. VERIFY WITH UTILITY COMPANY THAT LOCATIONS, ARRANGEMENT, UTILITY COMPANY VOLTAGE, PHASE, METERING REQUIRED, AND CONNECTIONS TO UTILITY SERVICE ARE IN ACCORDANCE WITH THEIR REGULATIONS AND REQUIREMENTS. IF THEIR REQUIREMENTS ARE AT A VARIANCE WITH THESE DRAWINGS, CONTRACTOR SHALL INCLUDE ALL COSTS NECESSARY TO MEET THE UTILITY REQUIREMENTS WITHOUT EXTRA COST TO THE OWNER AFTER BIDS ARE ACCEPTED.**
5. **PROVIDE SERVICE DISCONNECT ON BUILDING EXTERIOR IF REQUIRED BY AUTHORITY HAVING JURISDICTION.**

NON-DWELLING LOAD CALCULATIONS

	BUILDING AREA		4640 SQ FT	
	RECEPTACLE LOAD		7.188 KVA	
	FIXED MULTI-OUTLET ASSEMBLIES			
	RECEPTACLE LOAD DEMAND FACTOR	FIRST 10 KVA @ 100%	7.188 KVA	
		REMAINDER @ 50%	0 KVA	
		TOTAL	7.188 KVA	
1	**TOTAL RECEPTACLE LOAD**			**7.188 KVA**
	GENERAL LIGHTING LOAD	1 VA PER SQFT	6.809 KVA	
	SIGN/OUTLINE LIGHTING		1.2 KVA	
	SHOW/TRACK LIGHTING		3.6 KVA	
	EXTERIOR LIGHTING		3.6 KVA	
2	**TOTAL LIGHTING**			**15.2 KVA**
3	**APPLIANCE LOADS @ 100%**	**(NO. UNITS OF EQUIPMENT 7 - 65%)**		**0.0 KVA**
4	**NONCOINCIDENT LOADS**			**33.9 KVA**
5	**MOTOR LOADS**			**33.5 KVA**
6	**LARGEST MOTOR @ 125%**			**0.0 KVA**
			TOTAL SERVICE LOAD	**90 KVA**
		90 KVA / 240 VOLTS =		374 A
			SERVICE LOAD	374 A
			FUTURE & SPARE	5 %
				393 A
			MINIMUM SERVICE OVERCURRENT REQUIRED	**400 A**
			MINIMUM SERVICE SIZE REQUIRED	**400 A**

* THESE CALCULATIONS ARE BASED ON THE 2005 EDITION OF THE NATIONAL ELECTRIC CODE

HVAC & PLUMBING EQUIPMENT ELECTRICAL SCHEDULE

EQUIPMENT MARK	EQUIPMENT NAME	VOLTAGE	PHASE	EQUIPMENT DISCONNECT	CONDUCTORS NUMBER/SIZE	EQUIPMENT GROUND	CONDUIT SIZE
AHU-1	AIR HANDLING UNIT	240	1	30/2/NF/1	2 / #12	12	3/4
AHU-2	AIR HANDLING UNIT	240	1	30/2/NF/1	2 / #12	12	3/4
AHU-3	AIR HANDLING UNIT	240	1	60/2/NF/1	2 / #6	10	3/4
AHU-4	AIR HANDLING UNIT	240	1	30/2/NF/1	2 / #12	10	3/4
DF-1	DUCT FURNACE	120	1	30/1/NF/1	2 / #12	12	3/4
DF-1	DUCT FURNACE	120	1	30/1/NF/1	2 / #12	12	3/4
C-1A	CONDENSING UNIT	240	1	60/2/NF/3R	2 / #4	10	3/4
C-1B	CONDENSING UNIT	240	1	60/2/NF/3R	2 / #4	10	3/4
C-2A	CONDENSING UNIT	240	1	60/2/NF/3R	2 / #4	10	3/4
C-2B	CONDENSING UNIT	240	1	60/2/NF/3R	2 / #4	10	3/4
C-3	CONDENSING UNIT	240	1	60/2/NF/3R	2 / #6	10	3/4
C-4	CONDENSING UNIT	240	1	30/2/NF/3R	2 / #12	12	3/4
P6	WATER COOLER	120	1	REC	2 / #12	12	3/4
P8	INSTANTANEOUS HEATER			CB			
P10	WATER HEATER	240	1	30/2/NF/1	2 / #10	10	3/4

*** CB = CIRCUIT BREAKER SERVES AS DISCONNECT; REC = PLUG AND RECEPTACLE SERVE AS DISCONNECT SWITCH**

DISCONNECT SWITCH NOMENCLATURE A /B / C / D; WHERE A = SIZE IN AMPS, B = NUMBER OF POLES, C = FUSED (F) OR NON-FUSED (NF), D = NEMA RATING

HVAC & PLUMBING ELECTRICAL SCHEDULE IS BASED ON THE UNITS PROVIDED IN THE MECHANICAL DRAWINGS. CONTRACTOR SHALL VERIFY THE UNITS PURCHASED BY THE MECHANICAL CONTRACTOR MATCH THESE PLANS. IF DIFFERENT UNITS ARE PURCHASED, THE CONTRACTOR SHALL PROVIDE OVERCURRENT PROTECTION AND BRANCH CIRCUITS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND NEC.

A — **ADDED CONNECTOR TO EXISTING BUILDING.**

REV.	DATE	INITIAL
A	4 JAN 18	ACR

MEZZANINE POWER & LIGHTING PLAN

NEW SANCTUARY FOR ST. ELIZABETH CPCA

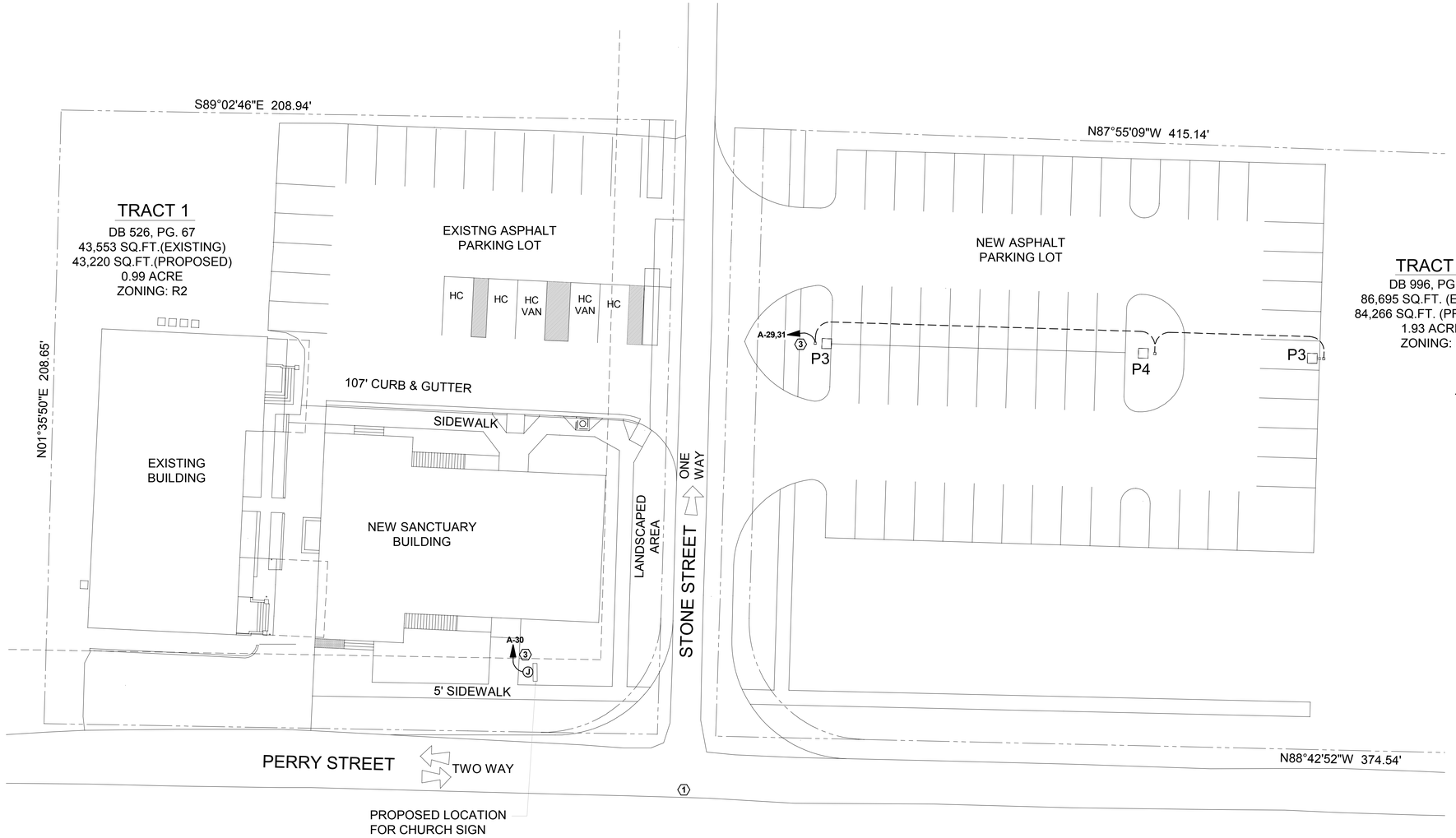
104 PERRY ST, MADISON, AL 35758

DRAWN: J. HALEY
REVIEWED: C. RAMSEY 256-684-9445
DATE: 18 FEB 2016
SCALE: 1/4" = 1' - 0"

ALABAMA REGISTERED No. 27309 PROFESSIONAL ENGINEER 2/18/2016 GENE CLARK RAMSEY, JR.

E-4

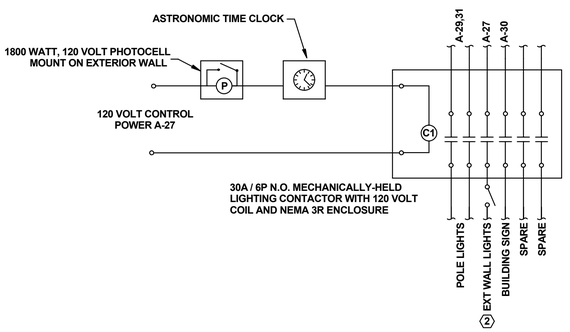
SHEET 4 OF 6



TRACT 2
DB 996, PG. 736
86,695 SQ.FT. (EXISTING)
84,266 SQ.FT. (PROPOSED)
1.93 ACRES
ZONING: R2

ELECTRICAL SHEET KEYED NOTES

1. COORDINATE TRANSFORMER LOCATION WITH UTILITY COMPANY.
2. ROUTE SWITCHED CIRCUIT FOR EXTERIOR LIGHTS THROUGH LIGHTING CONTACTOR. SEE LIGHTING PLAN.
3. BUILDING SIGN. COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN.



EXTERIOR LIGHTING CONTROL DIAGRAM

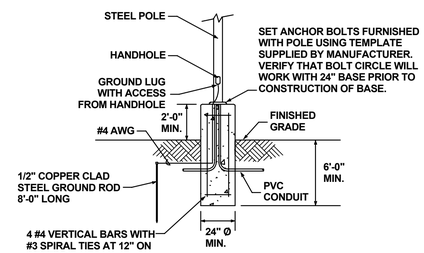
NOT TO SCALE

ELECTRICAL SITE PLAN

SCALE: 1" = 20' - 0"

FIXTURE SCHEDULE

FIXTURE DESIGNATION	FIXTURE	LAMP			VOLTAGE	MOUNTING	REMARKS
	TYPE OR EQUIVALENT	TYPE	NO.	DESCRIPTION			
A	LITHONIA 2M 2 32 A12 120 GEB10IS	FL	2	F32T8/2900 LM	120V	SURFACE	MODULAR FLUORESCENT FIXTURE, ACRYLIC LENS, INSTANT START, ENERGY EFF ELECTRONIC BALLAST,
D	LITHONIA WP 2 32 120 2/1 GEB10IS EL	FL	2	F32T8/2900 LM	120V	WALL	WALL MOUNTED FLUORESCENT FIXTURE FOR STAIRWELL WITH EMERGENCY BATTERY PACK
EX	LITHONIA LHQM LED R	LED	2	1.5W WHITE LED	120V	WALL 7'-6"	EXIT SIGN / TWO LAMP HEAD LED EMERGENCY LIGHTING COMBINATION UNIT
EM	LITHONIA ELM2 LED	LED	2	1.5W WHITE LED	120V	WALL 7'-6"	TWO LAMP HEAD LED EMERGENCY LIGHTING UNIT
J	-	INC	1	60 WATT A19	120V	ATTIC TRUSS	CERAMIC LAMP HOLDER WITH A 60 WATT INCANDESCENT LAMP. MOUNT FIXTURES TO ATTIC TRUSSES. FIELD MOUNT SUCH THAT FIXTURE WILL NOT BE DAMAGED WHEN PERSONNEL ACCESS ATTIC OR MAINTAIN HVAC EQUIPMENT.
S	LITHONIA 42 TRT 8B3W 120 ADEZ	CFL	1	TRT 42W LAMPS	120V	RECESSED	COMPACT FLUORESCENT DOWN LIGHTING, BAFFLE VERTICAL TRIPLE-TUBE, 1 LAMP, 8G3AZ HOUSING WITH DIMMABLE BALLAST. FIXTURES INSTALLED ON A SLOPE CEILING
P	-	INC	-	480 WATT MAX	120V	PENDANT	DECORATIVE PENDANT MOUNT FIXTURE TO BE SPECIFIED BY THE OWNER/CONTRACTOR. MAXIMUM FIXTURE WATTAGE 480 WATTS
P3	LUMARK PREVAIL PRVS-A60-UNV-T3	LED	2	4000K, 70 CRI	240V	POLE 30' - 0"	PREVAIL AREA LUMINARE, TYPE T3 OPTICS. PROVIDE WITH A 28' SQUARE POLE, MOUNT ON 2' CONCRETE BASE.
P4	LUMARK PREVAIL PRVS-A60-UNV-T4	LED	2	4000K, 70 CRI	240V	POLE 30' - 0"	PREVAIL AREA LUMINARE, TYPE T4 OPTICS. PROVIDE WITH A 28' SQUARE POLE, MOUNT ON 2' CONCRETE BASE.
W	SELECTED BY OWNER	-	1	100 WATT MAX	120V	WALL	ARCHITECTURAL WALL SCONCE. FIXTURE SHALL BE UL LISTED FOR WET LOCATION. FIXTURE SHALL BE SELECTED BY OWNER/ARCHITECT.
X	LITHONIA AFN W EXT	XENON	2	6 WATT XENON	120V	WALL	ARCHITECTURAL EMERGENCY LIGHTING UNIT



NOTE: AREA POLE LIGHT HEIGHT IS 28'-0"

AREA LIGHT POLE BASE DETAIL

NOT TO SCALE

REV.	DATE	INITIAL

ELECTRICAL SITE PLAN

NEW SANCTUARY FOR ST. ELIZABETH CPCA

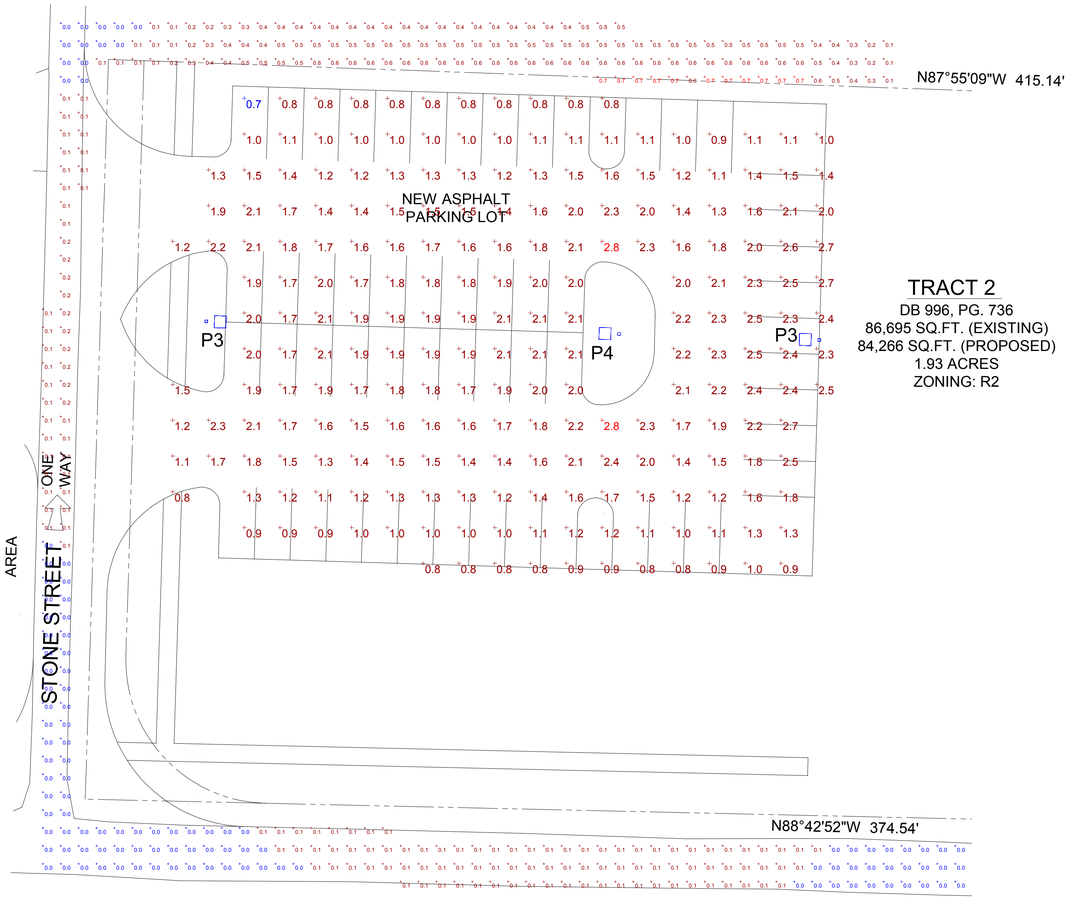
104 PERRY ST, MADISON, AL 35758

DRAWN: J. HALEY
REVIEWED: C. RAMSEY 256-684-9445
DATE: 6 MAY 2017
SCALE: 1" = 20' - 0"

ALABAMA REGISTERED No. 27309 PROFESSIONAL 5/6/2016 ENGINEER CHARLIE CLARK RAMSEY, JR.

E-5

SHEET 5 OF 6



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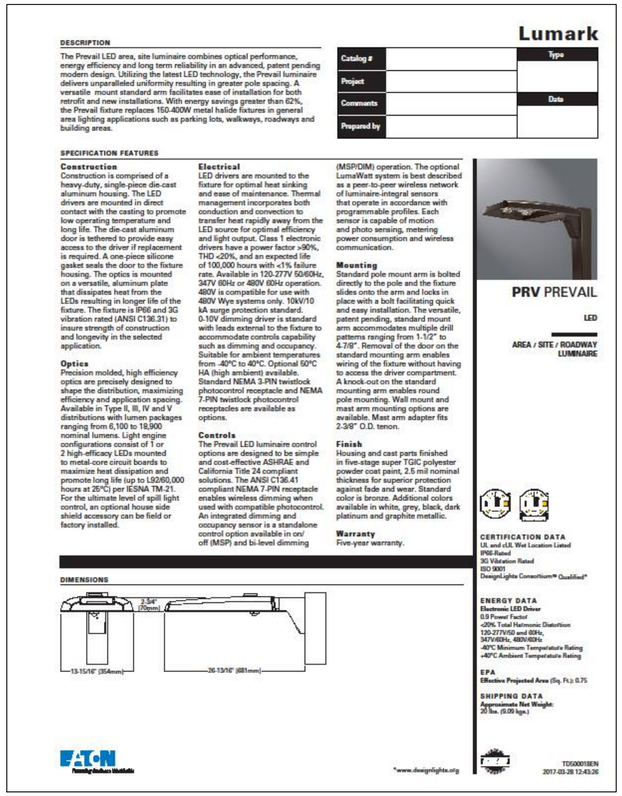
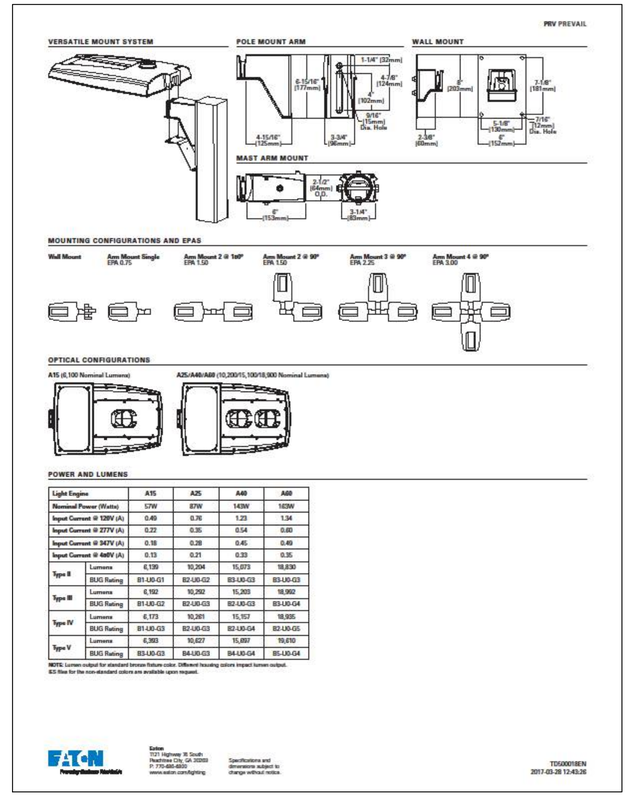
PHOTOMETRIC PLAN
SCALE: 1" = 20' - 0"





Schedule

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
□	P3	1	EATON - LUMARK (FORMER COOPER LIGHTING)	PRV-A60-D-UNV-T3-DP	PREVAIL AREA AND ROADWAY LUMINAIRE (2) 70 CRI, 4000K LEDS, HIGH OUTPUT AND TYPE III OPTICS, DARK PLATINUM PAINTED FINISH ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS CREATED USING LAB LUMEN STANDARDS IN GONIOPHOTOMETER WITH TEST DISTANCE OF 28.75 FEET	LED	2	PRV-A60-D-UNV-T3-DP.ies	9767	0.95	163
□	P4	2	EATON - LUMARK (FORMER COOPER LIGHTING)	PRV-A60-D-UNV-T4-DP	PREVAIL AREA AND ROADWAY LUMINAIRE (2) 70 CRI, 4000K LEDS, HIGH OUTPUT AND TYPE IV OPTICS, DARK PLATINUM PAINTED FINISH ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS CREATED USING LAB LUMEN STANDARDS IN GONIOPHOTOMETER WITH TEST DISTANCE OF 28.75 FEET	LED	2	PRV-A60-D-UNV-T4-DP.ies	9735	0.95	163

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
New Parking Area	+	1.6 fc	2.8 fc	0.7 fc	4.0:1	2.3:1
Spil	+	0.2 fc	0.7 fc	0.0 fc	N/A	N/A

REV.	DATE	INITIAL

PHOTOMETRIC PLAN
NEW SANCTUARY FOR ST. ELIZABETH CPCA
104 PERRY ST, MADISON, AL 35758

DRAWN: C. RAMSEY
REVIEWED: C. RAMSEY 256-684-9445
DATE: 6 MAY 2017
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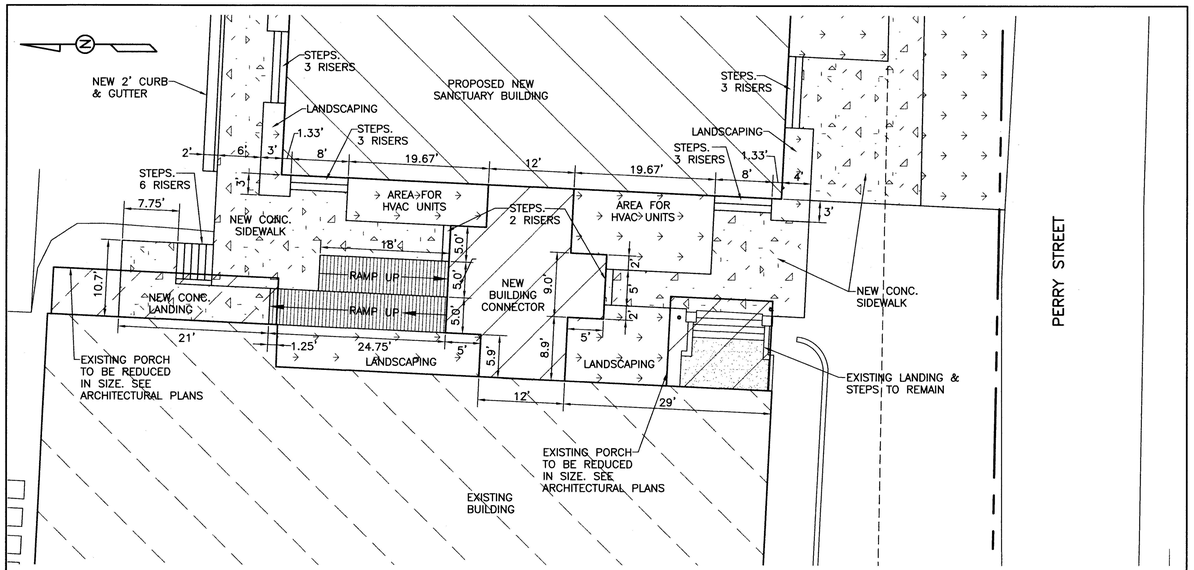
ALABAMA REGISTERED No. 27309 PROFESSIONAL 5/6/2016 ENGINEER CHARLIE CLARK RAMSEY, JR.

E-6
SHEET 6 OF 6



ALABAMA
PROFESSIONAL ENGINEER
REGISTERED
NO. 16747
PROFESSIONAL
LAND SURVEYOR
HARRY C. VICE, JR.

1-25-18

NEW BUILDING CONNECTOR SITE LAYOUT PLAN

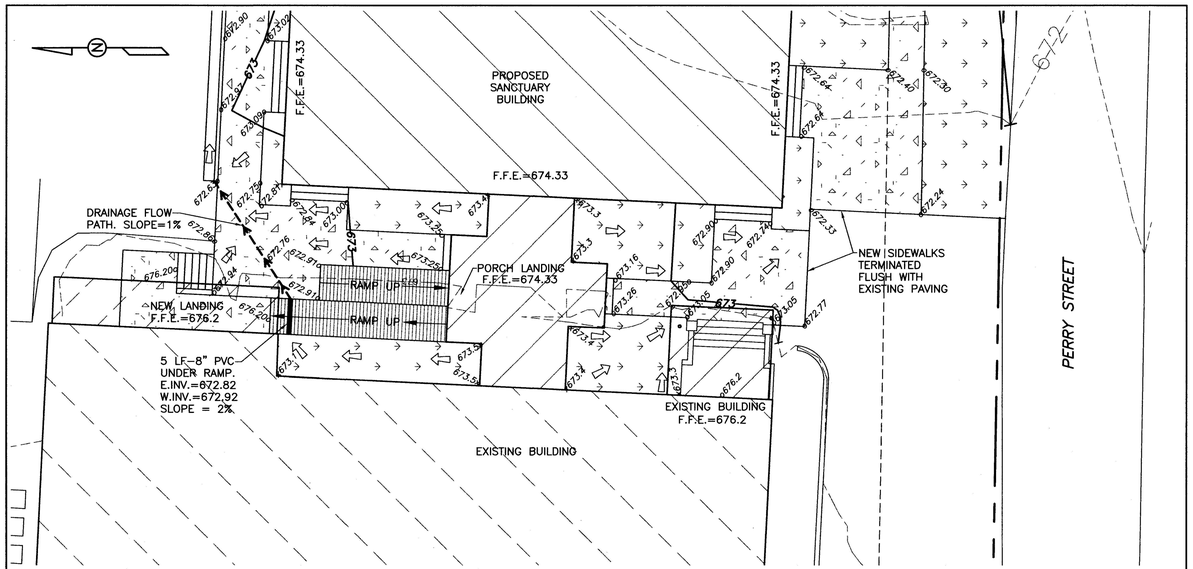
SCALE: 1" = 10'

NOTES:
1. THE LOCATION AND EXTENT OF NEW IMPROVEMENTS IN THE AREA SHOWN ON THIS DRAWING SUPERSEDES PREVIOUS SITE PLANS. ALL OTHER SITE PLAN REQUIREMENTS FOR AREAS OUTSIDE OF THE EXTENT OF THIS DRAWING WILL REMAIN THE SAME AS SHOWN ON DRAWINGS PREVIOUSLY ISSUED.

NEW BUILDING CONNECTOR FOR NEW SANCTUARY FOR ST. ELIZABETH CPCA

104 PERRY STREET
MADISON, ALABAMA 35758

SCALE: 1" = 10'	PREPARED BY: HARRY C. VICE, JR., P.E., P.L.S. CIVIL ENGINEER & LAND SURVEYOR 1506 MARKS DRIVE HARTSELLE, ALABAMA 35640 PHONE: 256-612-1501 E-MAIL: hvice@bellsouth.net WEB: viceengineersurveyor.com
PAGE NO: 1 OF 2	
DWG. DATE: 1-25-18	



NEW BUILDING CONNECTOR SITE GRADING DETAIL PLAN

SCALE: 1" = 10'

NOTES:
1. THIS GRADING AND DRAINAGE PLAN SUPERSEDES PREVIOUS PLANS FOR THE AREA SHOWN BY THIS PLAN ONLY. THE GRADING AND DRAINAGE PLAN FOR ALL OTHER AREAS OUTSIDE THE EXTENT OF THIS PLAN WILL REMAIN THE SAME AS SHOWN ON DRAWINGS PREVIOUSLY ISSUED.
2. SEE THE SITE DRAINAGE PLAN ON SHEET C4 FOR INFORMATION REGARDING TEMPORARY BENCHMARKS FOR THIS PROJECT.

ALABAMA REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR NO. 16747 HARRY C. VICE, JR.
1-25-18

NEW BUILDING CONNECTOR FOR NEW SANCTUARY FOR ST. ELIZABETH CPCA
104 PERRY STREET
MADISON, ALABAMA 35758

SCALE: 1" = 10'	PREPARED BY: HARRY C. VICE, JR., P.E., P.L.S. CIVIL ENGINEER & LAND SURVEYOR 1506 MARKS DRIVE HARTSELLE, ALABAMA 35640 PHONE: 256-612-1501 E-MAIL: hvice@bellsouth.net WEB: viceengineersurveyor.com
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