CONSTRUCTION PLANS FOR THE

CITY OF MILLEDGEVILLE, GEORGIA LAMAR HAM WTP IMPROVEMENTS CONTRACT 1

CITY COUNCIL

MARY PARHAM-COPELAN, MAYOR STEPHEN CHAMBERS, PRO-TEM DR. COLLINDA LEE SHONYA MAPP

WALTER REYNOLDS

DENESE SHINHOLSTER

JEANETTE WALDEN

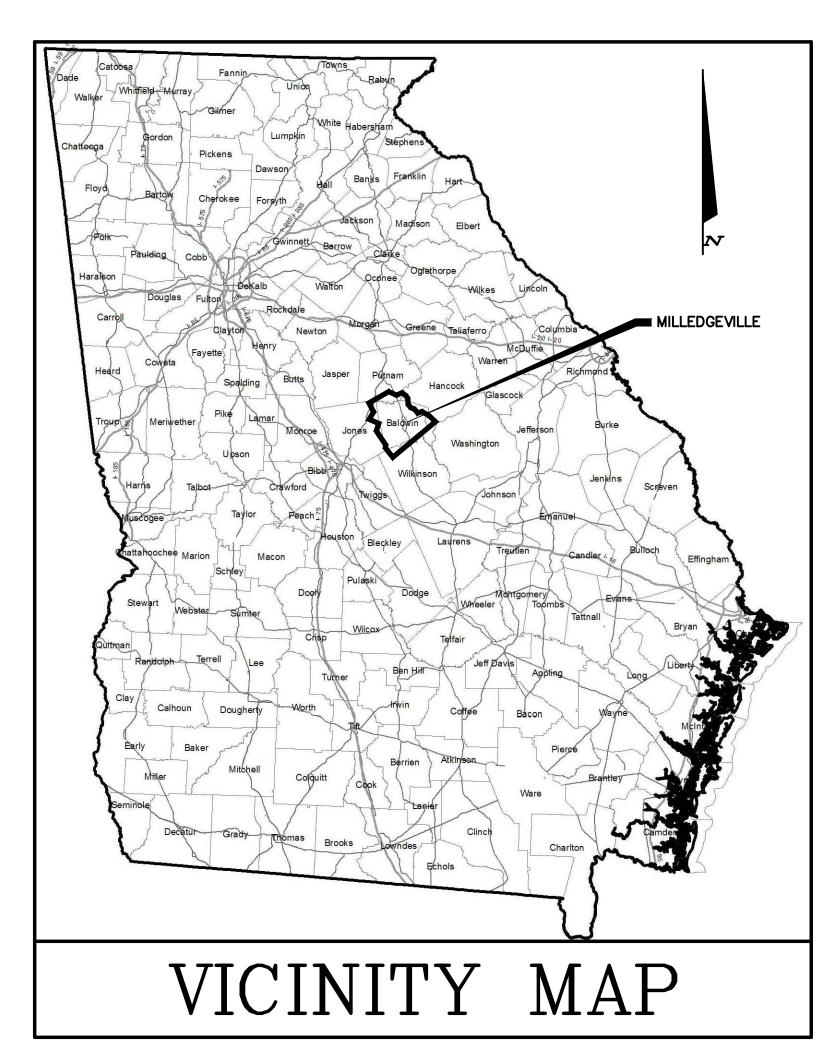
OTHER OFFICIALS

HANK GRIFFETH, CITY MANAGER ROBERT HADDEN, WATER AND SEWER DEPARTMENT DIRECTOR MIKE BURCH, LEAD OPERATOR

24 HOUR CONTACT

KEVIN VEAL - UTILITIES MAINTENANCE DIRECTOR PHONE: (478) 288-0801

OCTOBER 2025







Call before you dig.

ALL EROSION CONTROL MEASURES MUST BE IN PLACE PRIOR TO ANY LAND DISTURBING ACTIVITY.

RIGHTS-OF-WAY REQUIRED TO BEGIN CONSTRUCTION HAVE BEEN OBTAINED WITH THE FOLLOWING EXCEPTION:

SEE SPECIFICATIONS

TURNIPSEED ENGINEERS

ATLANTA **AUGUSTA** ST. SIMONS ISLAND

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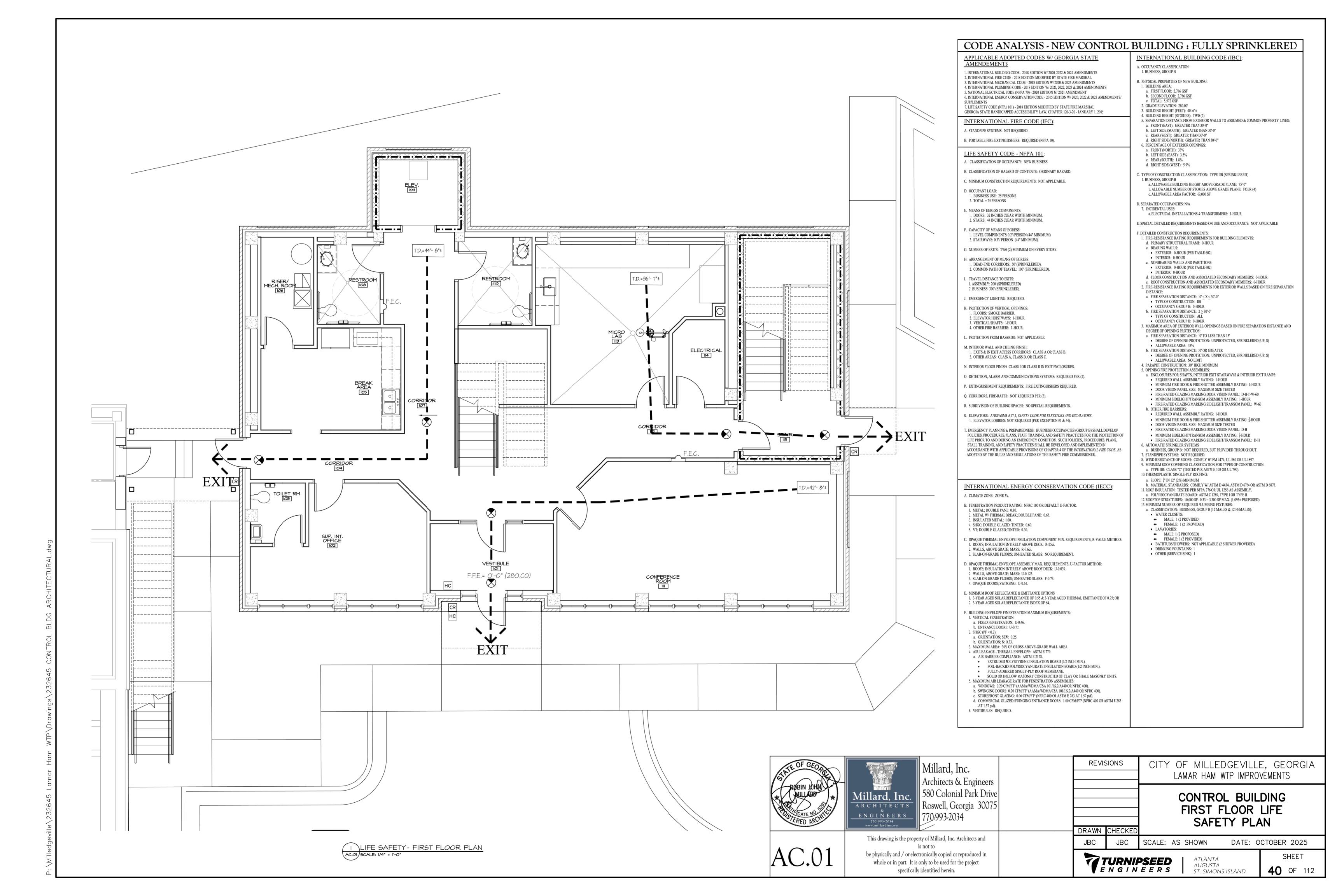
58 CONTROL BUILDING MILLWORK DETAILS

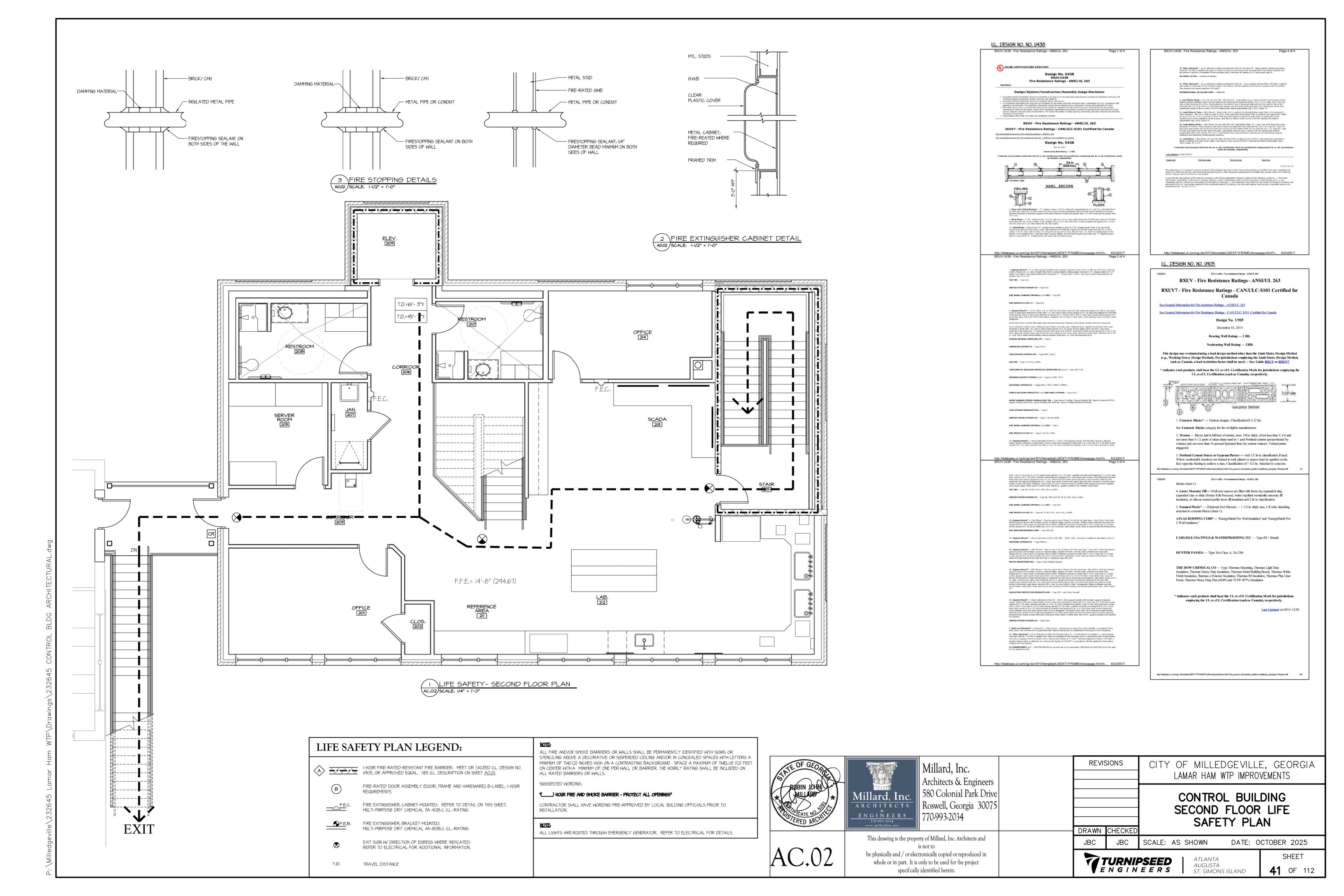
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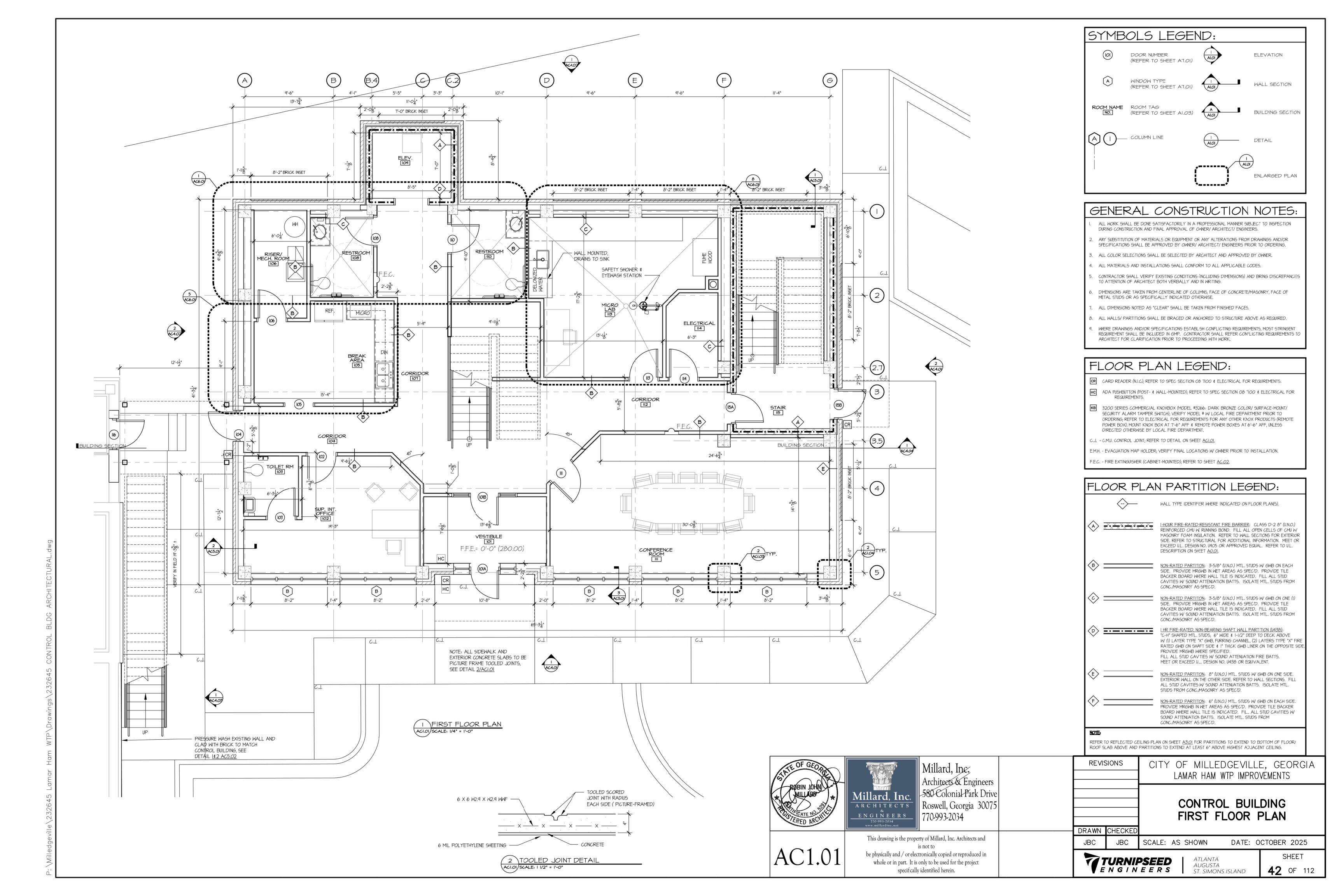
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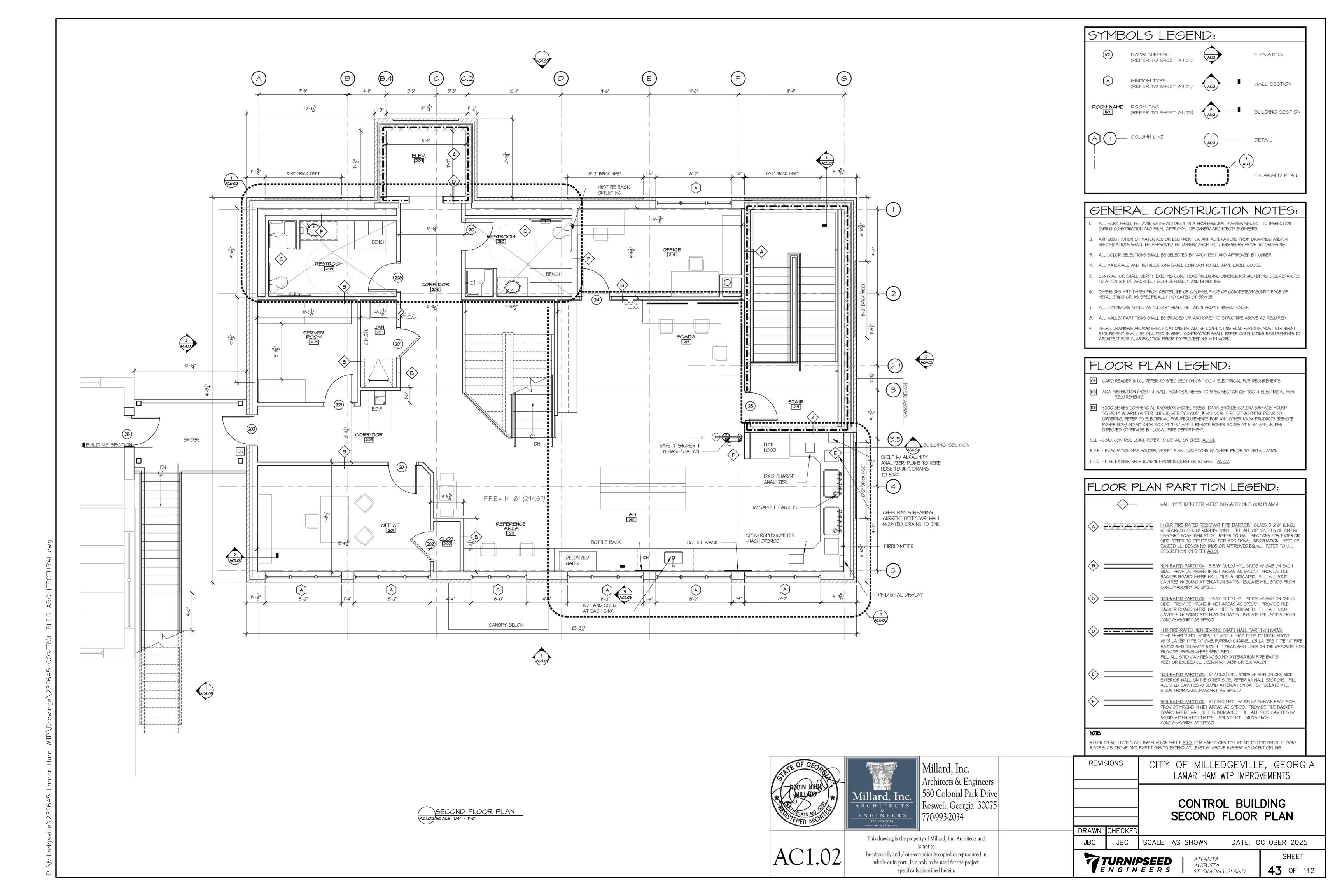
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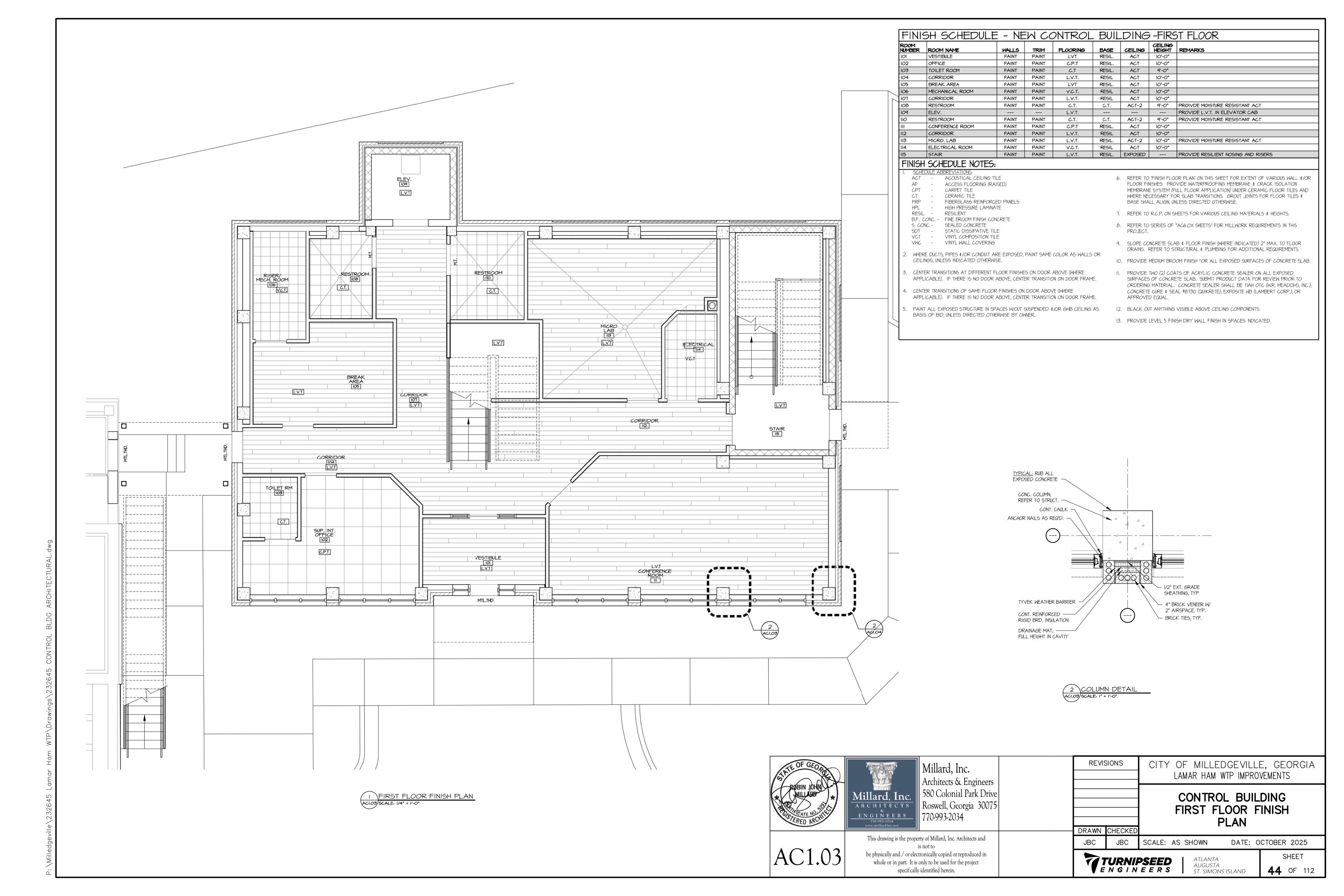
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LIINI:	FINISH SCHEDULE - NEW CONTROL BUILDING -SECOND FLOOR												
R <i>OO</i> M NUMBER	ROOM NAME	WALLS	TRIM	FLOORING	BASE	CEILING	CEILING HEIGHT	REMARKS					
201	OFFICE	PAINT	PAINT	C.P.T.	RESIL.	ACT	10'-0"						
202	CLOSET	FAINT	PAINT	C.P.T.	RESIL.	ACT	10'-0"						
203	CORRIDOR	PAINT	PAINT	L.V.T.	RESIL.	ACT	11'-0"						
204	NOT USED												
205	SERVER ROOM	FAINT	PAINT	S.D.T.	RESIL.	ACT	10'-0"						
206	CORRIDOR	PAINT	PAINT	L.V.T.	RESIL	ACT	11'-0"						
207	JANITOR'S CLOSET	FRP	PAINT	V.C.T.	RESIL.	ACT	10'-0"						
208	RESTROOM	FAINT	PAINT	C.T.	C.T.	ACT-2	9'-0"	PROVIDE MOISTURE RESISTANT ACT					
209	ELEV.			L.V.T.				PROVIDE L.V.T. IN ELEVATOR CAB					
210	RESTROOM	PAINT	PAINT	C.T.	C.T.	ACT-2	9'-0"	PROVIDE MOISTURE RESISTANT ACT					
211	REFERENCE AREA	FAINT	PAINT	L.V.T.	RESIL.	ACT	11'-0"	PROVIDE MOISTURE RESISTANT ACT					
212	LAB	PAINT	PAINT	L.V.T.	RESIL.	ACT-2	11'-0"	PROVIDE MOISTURE RESISTANT ACT					
213	SCADA	FAINT	PAINT	L.V.T.	RESIL.	ACT	11'-0"						
214	OFFICE	FAINT	PAINT	C.P.T.	RESIL.	ACT	10'-0"						
215	STAIR	PAINT	PAINT	L.V.T.	RESIL.	EXP0SED		PROVIDE RESILIENT NOSING AND RISERS					

FINISH SCHEDULE NOTES:

 ACOUSTICAL CEILING TILE AF - ACCESS FLOORING (RAISED)

CT - CERAMIC TILE FRP - FIBERGLASS REINFORCED PANELS

HPL - HIGH PRESSURE LAMINATE RESIL. - RESILIENT B.F. CONC. - FINE BROOM FINISH CONCRETE

S. CONC.- SEALED CONCRETE SDT - STATIC DISSIPATIVE TILE VCT - VINYL COMPOSITION TILE VWC - VINYL WALL COVERING

WHERE DUCTS, PIPES \$/OR CONDUIT ARE EXPOSED, PAINT SAME COLOR AS WALLS OR CEILINGS, UNLESS INDICATED OTHERWISE.

CENTER TRANSITIONS AT DIFFERENT FLOOR FINISHES ON DOOR ABOVE (WHERE APPLICABLE). IF THERE IS NO DOOR ABOYE, CENTER TRANSITION ON DOOR FRAME.

CENTER TRANSITIONS OF SAME FLOOR FINISHES ON DOOR ABOVE (WHERE APPLICABLE). IF THERE IS NO DOOR ABOYE, CENTER TRANSITION ON DOOR FRAME.

PAINT ALL EXPOSED STRUCTURE IN SPACES W/OUT SUSPENDED \$ /OR GWB CEILING AS BASIS OF BID, UNLESS DIRECTED OTHERWISE BY OWNER.

6. REFER TO 'FINISH FLOOR PLAN' ON THIS SHEET FOR EXTENT OF VARIOUS WALL \$/OR FLOOR FINISHES. PROVIDE WATERPROOFING MEMBRANE & CRACK ISOLATION MEMBRANE SYSTEM (FULL FLOOR APPLICATION) UNDER CERAMIC FLOOR TILES AND WHERE NECESSARY FOR SLAB TRANSITIONS. GROUT JOINTS FOR FLOOR TILES \$ BASE SHALL ALIGN, UNLESS DIRECTED OTHERWISE.

7. REFER TO R.C.P. ON SHEETS FOR VARIOUS CEILING MATERIALS & HEIGHTS.

8. REFER TO SERIES OF "AC6.0X SHEETS" FOR MILLWORK REQUIREMENTS IN THIS PROJECT.

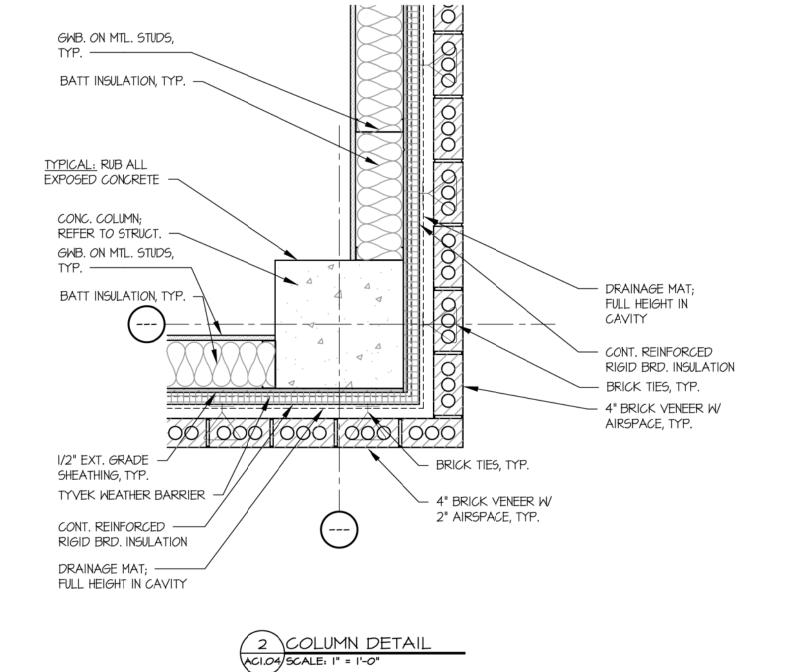
9. SLOPE CONCRETE SLAB & FLOOR FINISH (WHERE INDICATED) 2" MAX. TO FLOOR DRAINS. REFER TO STRUCTURAL & PLUMBING FOR ADDITIONAL REQUIREMENTS.

10. PROVIDE MEDIUM BROOM FINISH FOR ALL EXPOSED SURFACES OF CONCRETE SLAB.

II. PROVIDE TWO (2) COATS OF ACRYLIC CONCRETE SEALER ON ALL EXPOSED SURFACES OF CONCRETE SLAB. SUBMIT PRODUCT DATA FOR REVIEW PRIOR TO ORDERING MATERIAL. CONCRETE SEALER SHALL BE TIAH OTC (W.R. MEADOWS, INC.); CONCRETE CURE & SEAL #8730 (QUIKRETE); EXPOSITE WB (LAMBERT CORP.); OR APPROVED EQUAL.

12. BLACK OUT ANY VISIBLE ABOVE CEILING COMPONENTS.

13. PROVIDE LEVEL 5 FINISH DRY WALL FINISH IN SPACES INDICATED.





engineers 770-993-2034

Millard, Inc. Architects & Engineers | 580 Colonial Park Drive | Roswell, Georgia 30075

DRAWN CHECKED

JBC

REVISIONS

CITY OF MILLEDGEVILLE, GEORGIA LAMAR HAM WTP IMPROVEMENTS

> CONTROL BUILDING SECOND FLOOR FINISH PLAN

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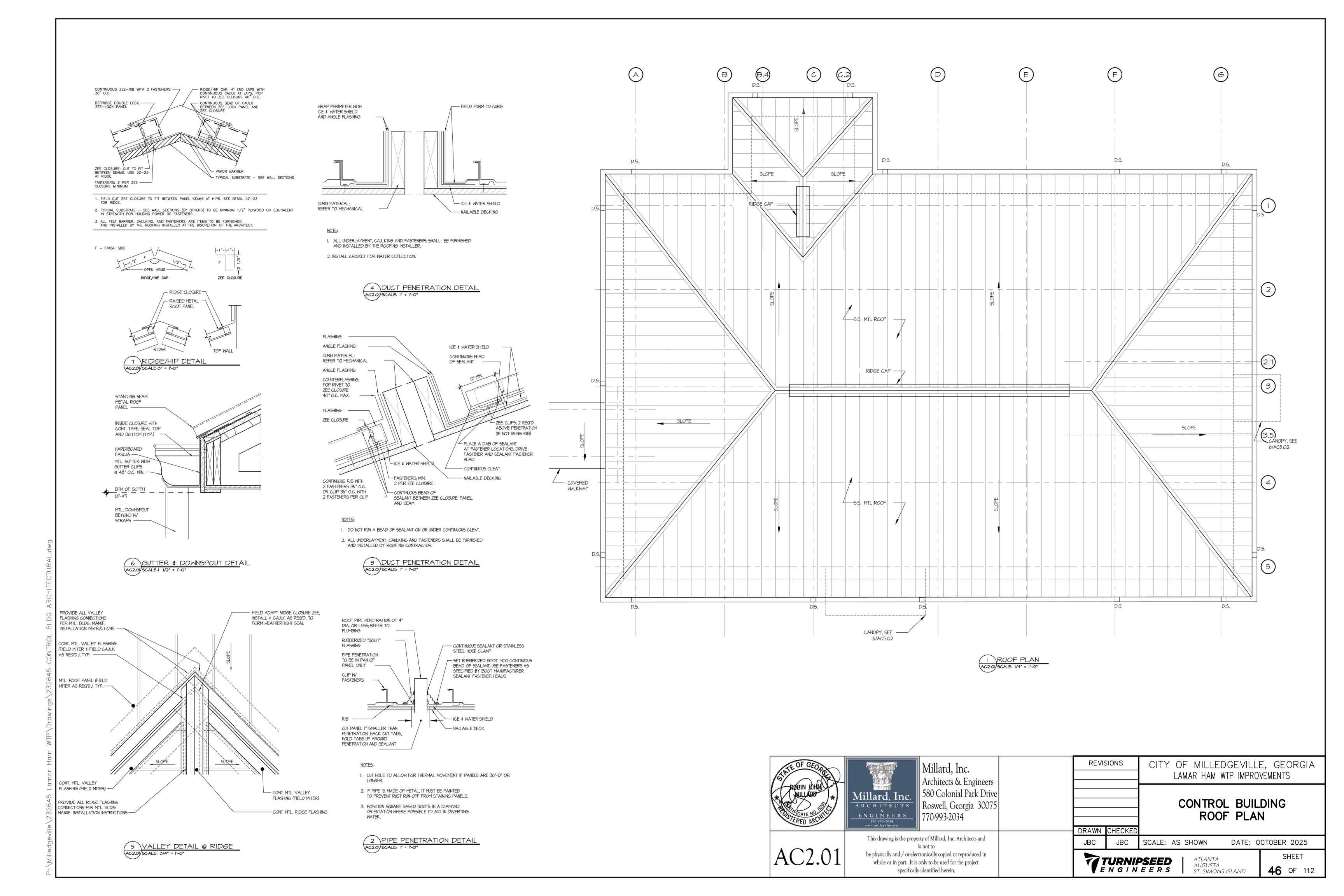
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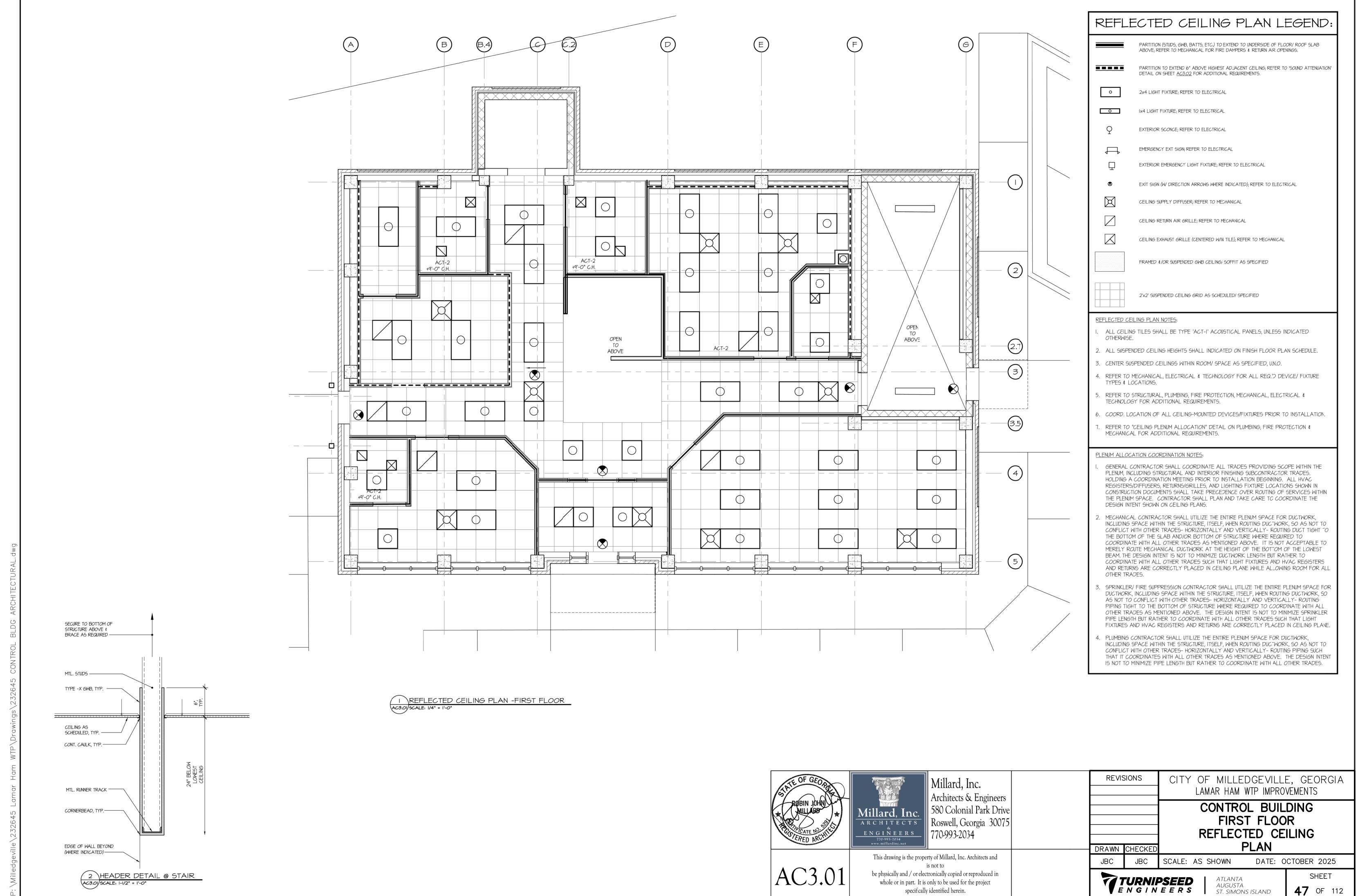
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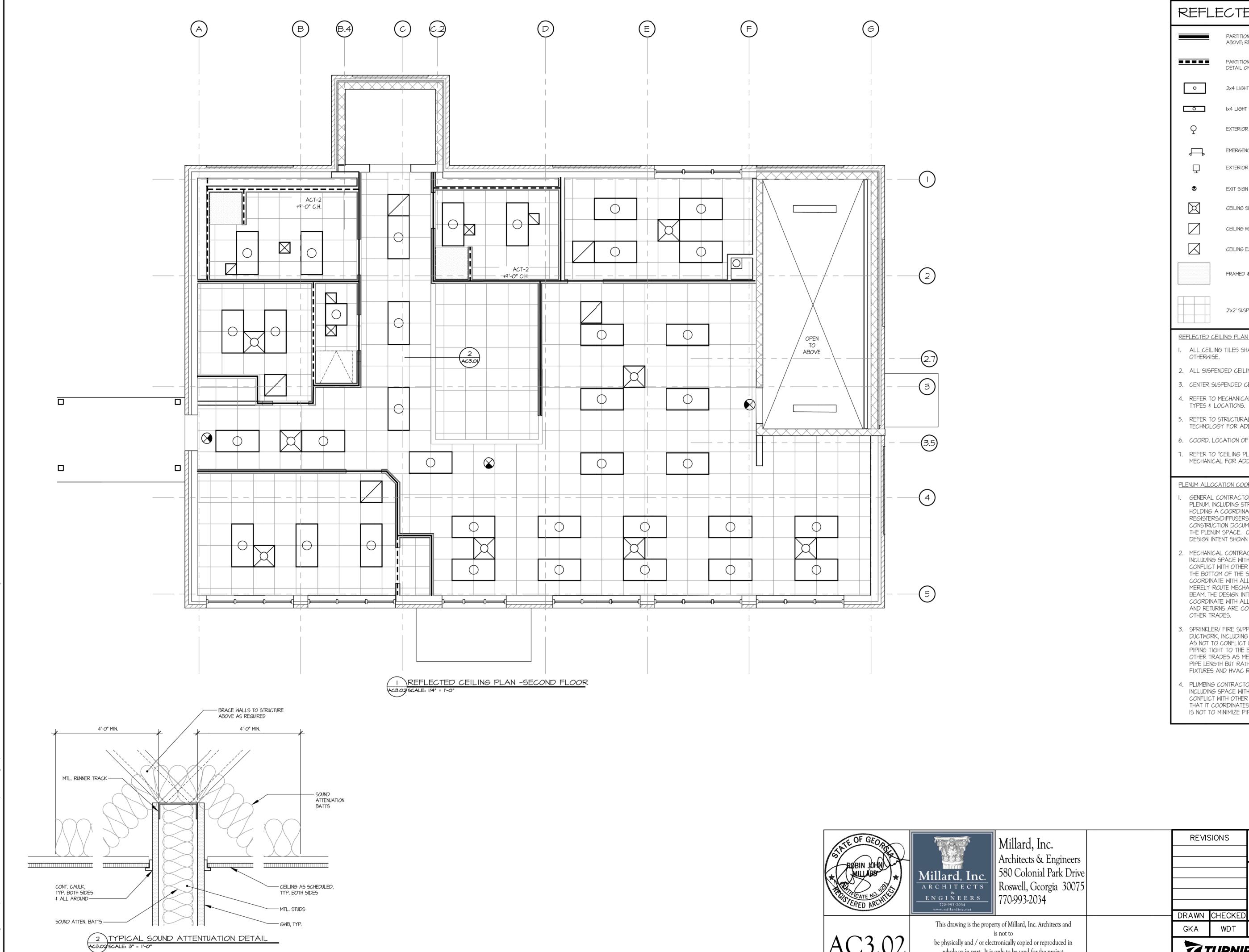
SCALE: AS SHOWN

ATLANTA AUGUSTA ST. SIMONS ISLAND

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REFLECTED CEILING PLAN LEGEND: PARTITION (STUDS, GWB, BATTS, ETC.) TO EXTEND TO UNDERSIDE OF FLOOR/ ROOF SLAB ABOVE; REFER TO MECHANICAL FOR FIRE DAMPERS & RETURN AIR OPENINGS. PARTITION TO EXTEND 6" ABOVE HIGHEST ADJACENT CEILING; REFER TO 'SOUND ATTENUATION' DETAIL ON SHEET AC3.02 FOR ADDITIONAL REQUIREMENTS. 2x4 LIGHT FIXTURE; REFER TO ELECTRICAL IX4 LIGHT FIXTURE; REFER TO ELECTRICAL EXTERIOR SCONCE; REFER TO ELECTRICAL EMERGENCY EXT SIGN; REFER TO ELECTRICAL EXTERIOR EMERGENCY LIGHT FIXTURE; REFER TO ELECTRICAL EXIT SIGN (W/ DIRECTION ARROWS WHERE INDICATED); REFER TO ELECTRICAL CEILING SUPPLY DIFFUSER; REFER TO MECHANICAL CEILING RETURN AIR GRILLE; REFER TO MECHANICAL CEILING EXHAUST GRILLE (CENTERED W/IN TILE); REFER TO MECHANICAL FRAMED \$/OR SUSPENDED GWB CEILING/ SOFFIT AS SPECIFIED 2'x2' SUSPENDED CEILING GRID AS SCHEDULED/ SPECIFIED REFLECTED CEILING PLAN NOTES:

- . ALL CEILING TILES SHALL BE TYPE 'ACT-1' ACOUSTICAL PANELS, UNLESS INDICATED
- 2. ALL SUSPENDED CEILING HEIGHTS SHALL BE INDICATED ON FINISH FLOOR PLAN SCHEDULE.
- 3. CENTER SUSPENDED CEILINGS WITHIN ROOM/ SPACE AS SPECIFIED, UN.O.
- 4. REFER TO MECHANICAL, ELECTRICAL & TECHNOLOGY FOR ALL REQ.'D DEVICE/ FIXTURE
- 5. REFER TO STRUCTURAL, PLUMBING, FIRE PROTECTION, MECHANICAL, ELECTRICAL & TECHNOLOGY FOR ADDITIONAL REQUIREMENTS.
- 6. COORD. LOCATION OF ALL CEILING-MOUNTED DEVICES/FIXTURES PRIOR TO INSTALLATION.
- 7. REFER TO "CEILING PLENUM ALLOCATION" DETAIL ON PLUMBING, FIRE PROTECTION \$ MECHANICAL FOR ADDITIONAL REQUIREMENTS.

PLENUM ALLOCATION COORDINATION NOTES:

- GENERAL CONTRACTOR SHALL COORDINATE ALL TRADES PROVIDING SCOPE WITHIN THE PLENUM, INCLUDING STRUCTURAL AND INTERIOR FINISHING SUBCONTRACTOR TRADES. HOLDING A COORDINATION MEETING PRIOR TO INSTALLATION BEGINNING. ALL HVAC REGISTERS/DIFFUSERS, RETURNS/GRILLES, AND LIGHTING FIXTURE LOCATIONS SHOWN IN CONSTRUCTION DOCUMENTS SHALL TAKE PRECEDENCE OVER ROUTING OF SERVICES WITHIN THE PLENUM SPACE. CONTRACTOR SHALL PLAN AND TAKE CARE TO COORDINATE THE DESIGN INTENT SHOWN ON CEILING PLANS.
- 2. MECHANICAL CONTRACTOR SHALL UTILIZE THE ENTIRE PLENUM SPACE FOR DUCTWORK, INCLUDING SPACE WITHIN THE STRUCTURE, ITSELF, WHEN ROUTING DUCTWORK, SO AS NOT TO CONFLICT WITH OTHER TRADES- HORIZONTALLY AND VERTICALLY- ROUTING DUCT TIGHT TO THE BOTTOM OF THE SLAB AND/OR BOTTOM OF STRUCTURE WHERE REQUIRED TO COORDINATE WITH ALL OTHER TRADES AS MENTIONED ABOVE. IT IS NOT ACCEPTABLE TO MERELY ROUTE MECHANICAL DUCTWORK AT THE HEIGHT OF THE BOTTOM OF THE LOWEST BEAM. THE DESIGN INTENT IS NOT TO MINIMIZE DUCTWORK LENGTH BUT RATHER TO COORDINATE WITH ALL OTHER TRADES SUCH THAT LIGHT FIXTURES AND HVAC REGISTERS AND RETURNS ARE CORRECTLY PLACED IN CEILING PLANE WHILE ALLOWING ROOM FOR ALL
- 3. SPRINKLER/ FIRE SUPPRESSION CONTRACTOR SHALL UTILIZE THE ENTIRE PLENUM SPACE FOR DUCTWORK, INCLUDING SPACE WITHIN THE STRUCTURE, ITSELF, WHEN ROUTING DUCTWORK, SO AS NOT TO CONFLICT WITH OTHER TRADES- HORIZONTALLY AND VERTICALLY- ROUTING PIPING TIGHT TO THE BOTTOM OF STRUCTURE WHERE REQUIRED TO COORDINATE WITH ALL OTHER TRADES AS MENTIONED ABOVE. THE DESIGN INTENT IS NOT TO MINIMIZE SPRINKLER PIPE LENGTH BUT RATHER TO COORDINATE WITH ALL OTHER TRADES SUCH THAT LIGHT FIXTURES AND HVAC REGISTERS AND RETURNS ARE CORRECTLY PLACED IN CEILING PLANE.
- 4. PLUMBING CONTRACTOR SHALL UTILIZE THE ENTIRE PLENUM SPACE FOR DUCTWORK, INCLUDING SPACE WITHIN THE STRUCTURE, ITSELF, WHEN ROUTING DUCTWORK, SO AS NOT TO CONFLICT WITH OTHER TRADES- HORIZONTALLY AND VERTICALLY- ROUTING PIPING SUCH THAT IT COORDINATES WITH ALL OTHER TRADES AS MENTIONED ABOVE. THE DESIGN INTENT IS NOT TO MINIMIZE PIPE LENGTH BUT RATHER TO COORDINATE WITH ALL OTHER TRADES.

LAMAR HAM WTP IMPROVEMENTS CONTROL BUILDING SECOND FLOOR REFLECTED CEILING

CITY OF MILLEDGEVILLE, GEORGIA

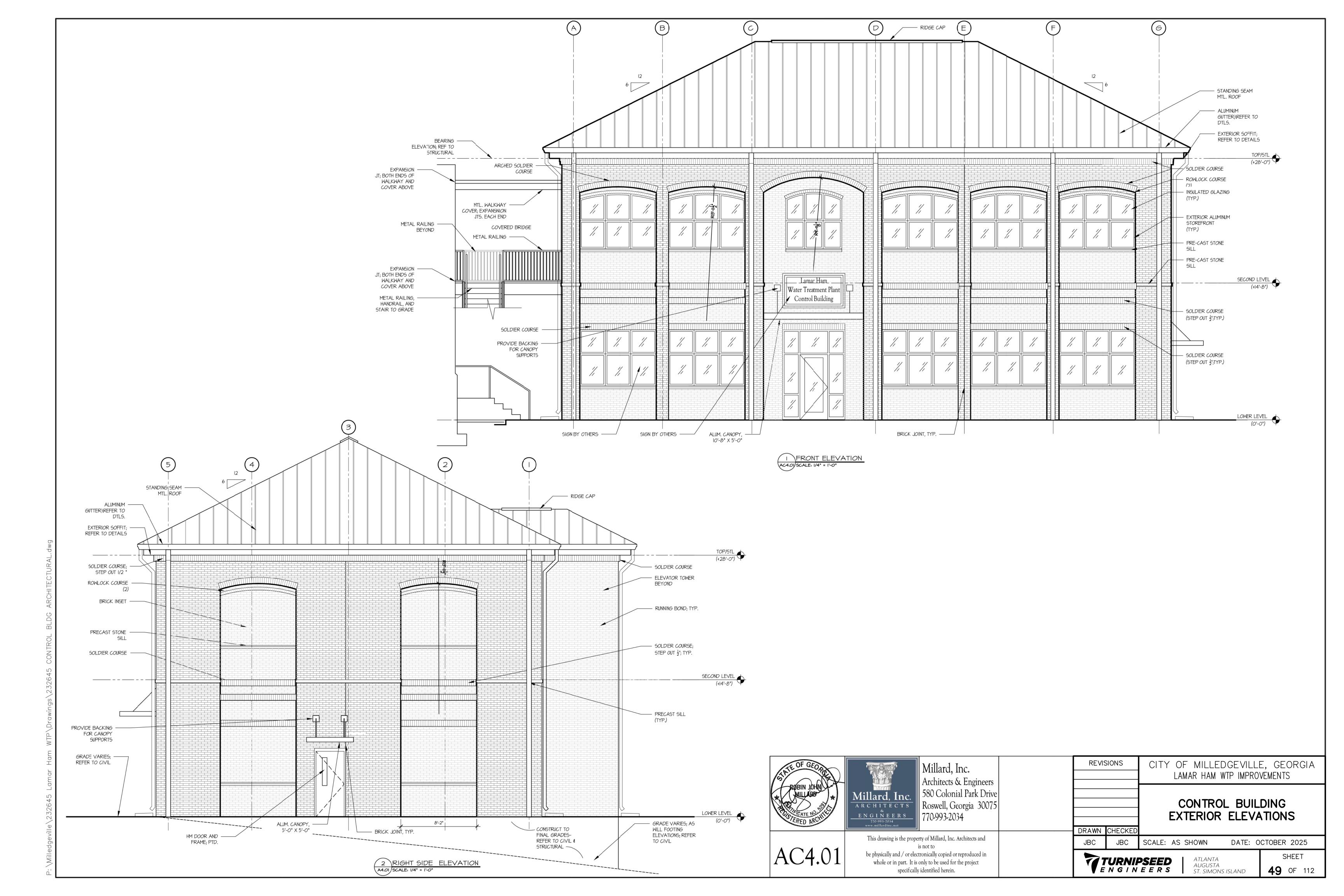
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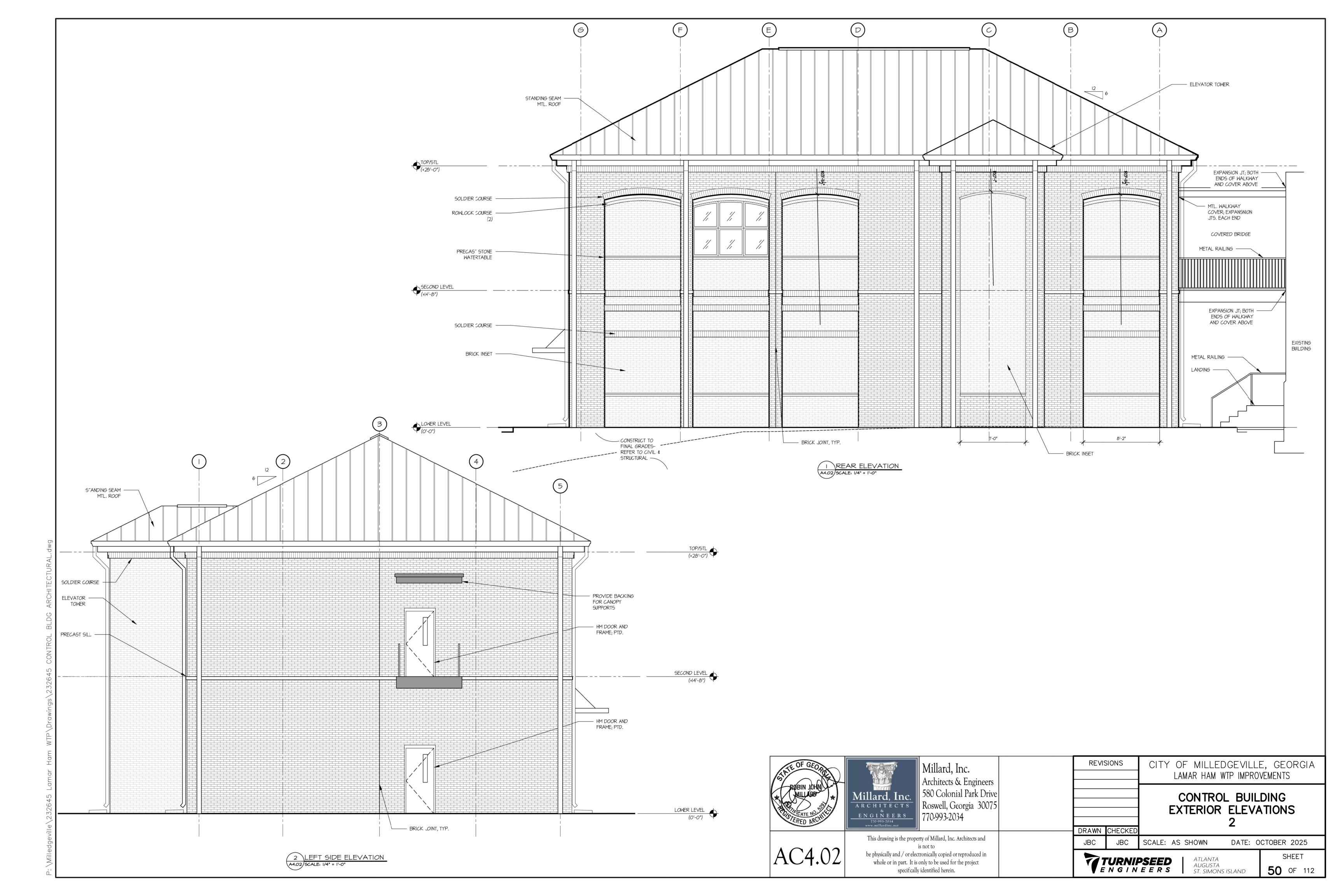
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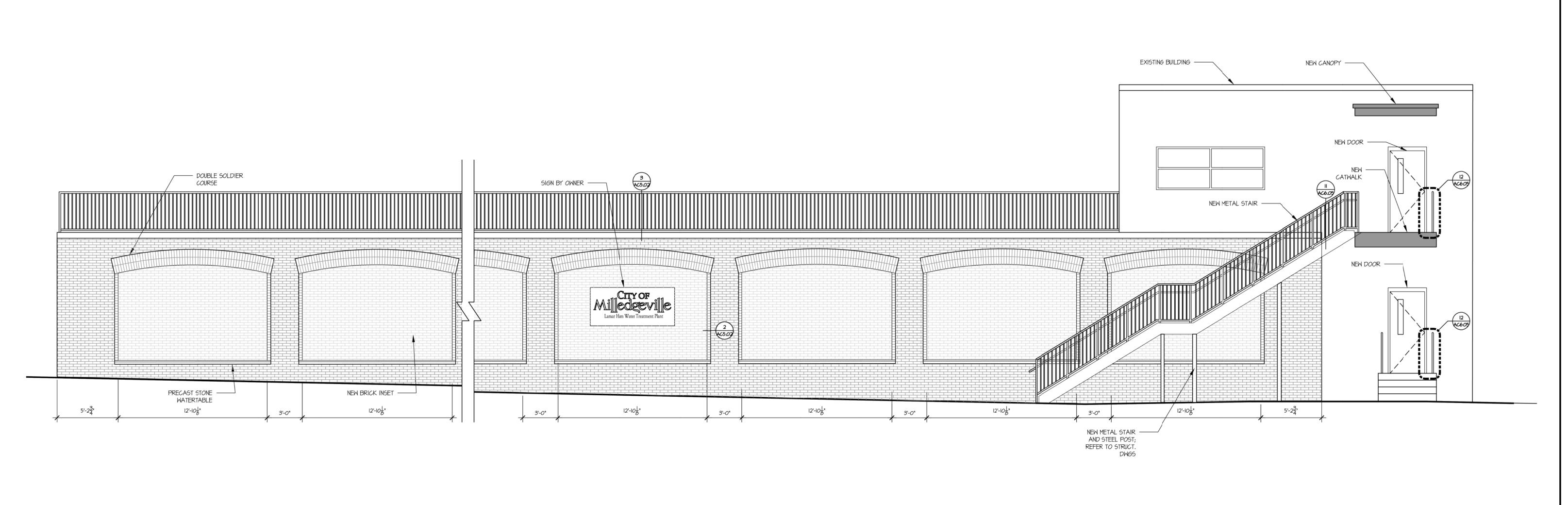
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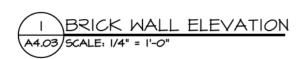
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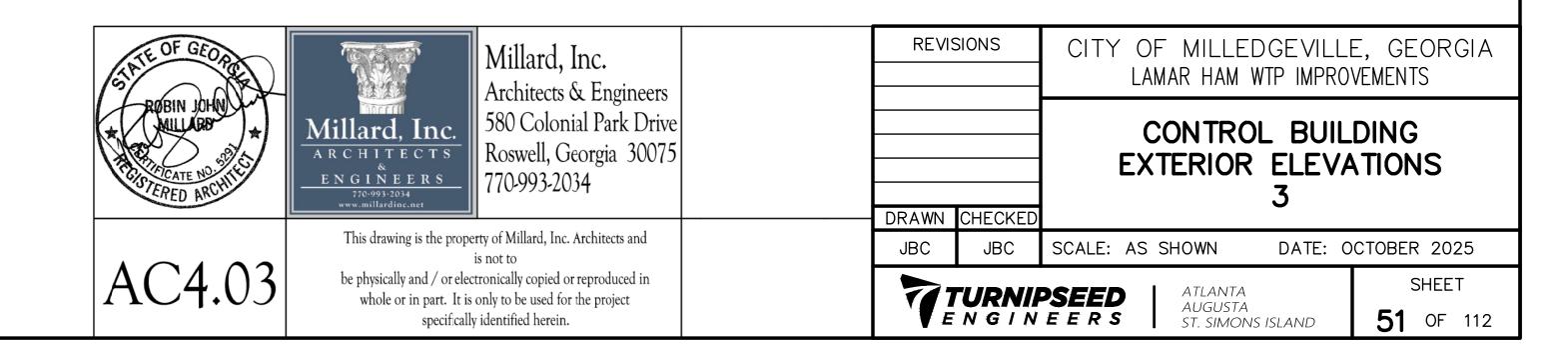
SHEET **48** OF 112



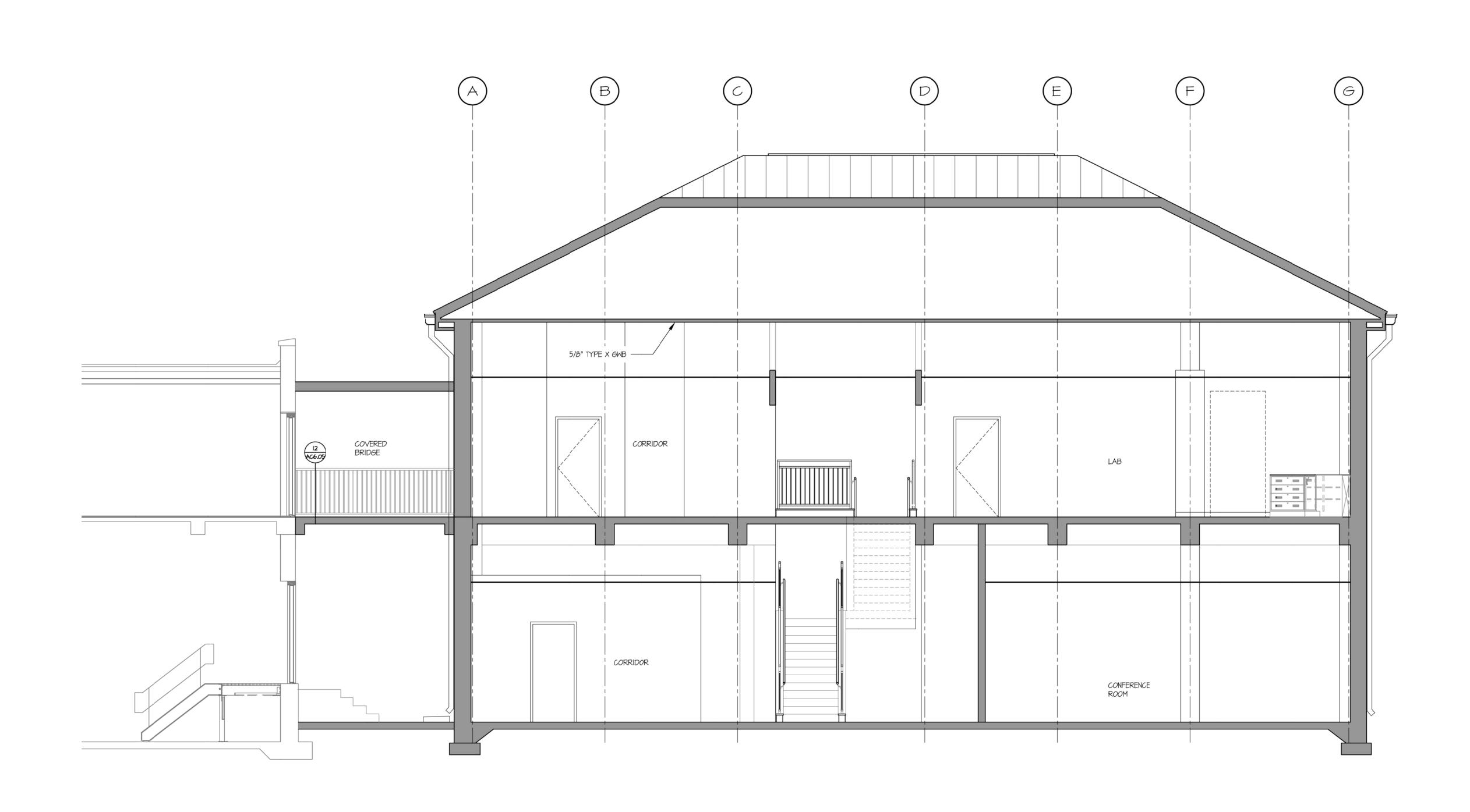




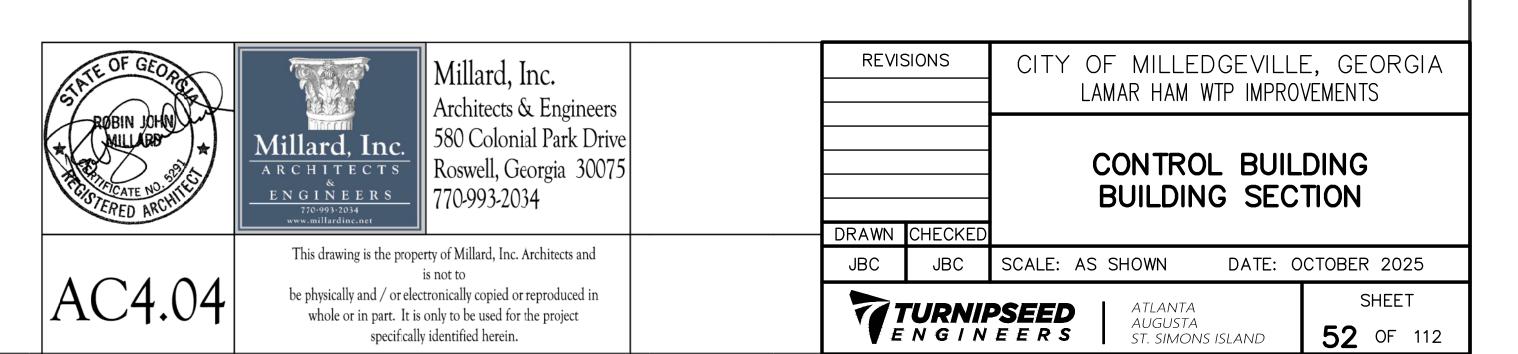




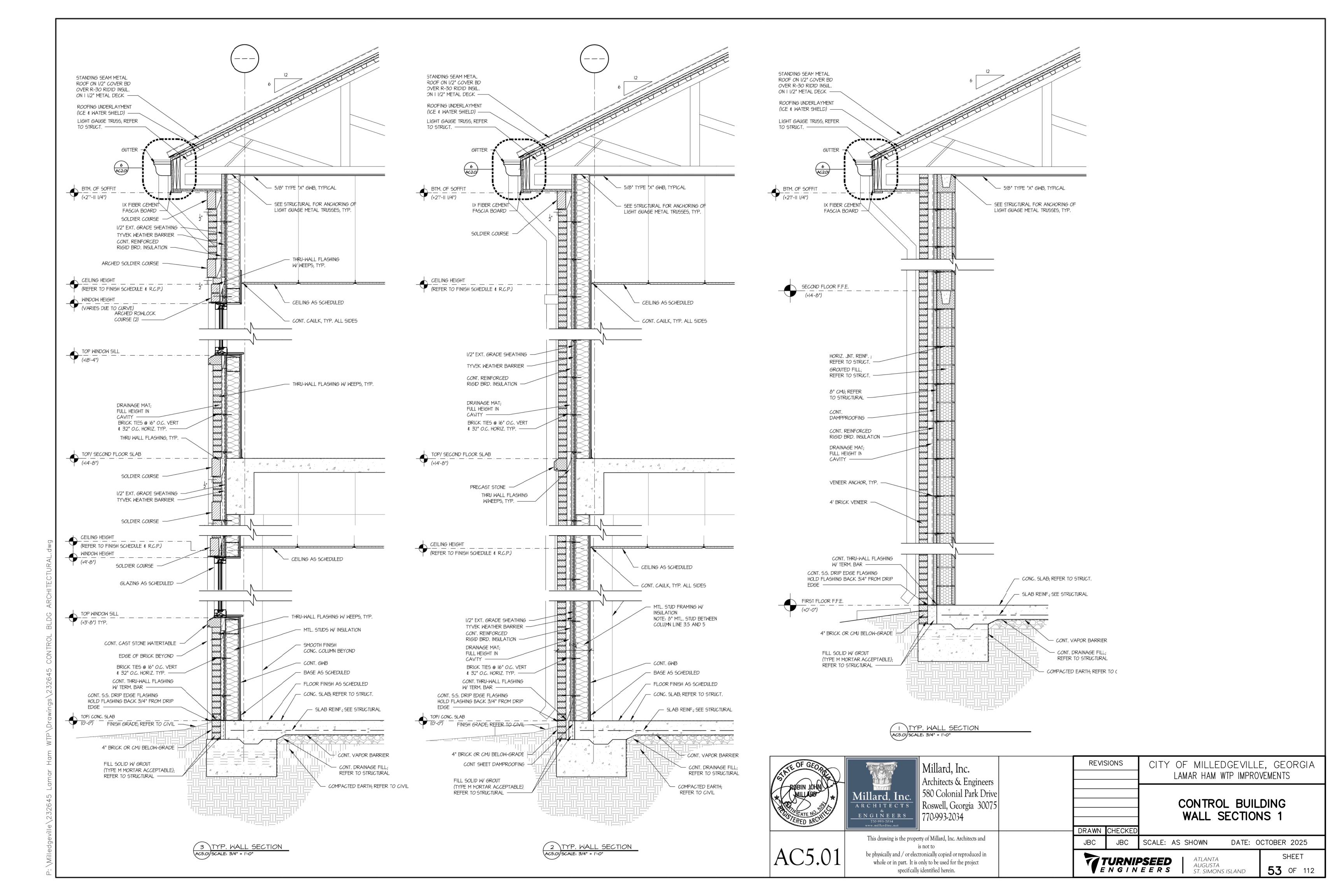
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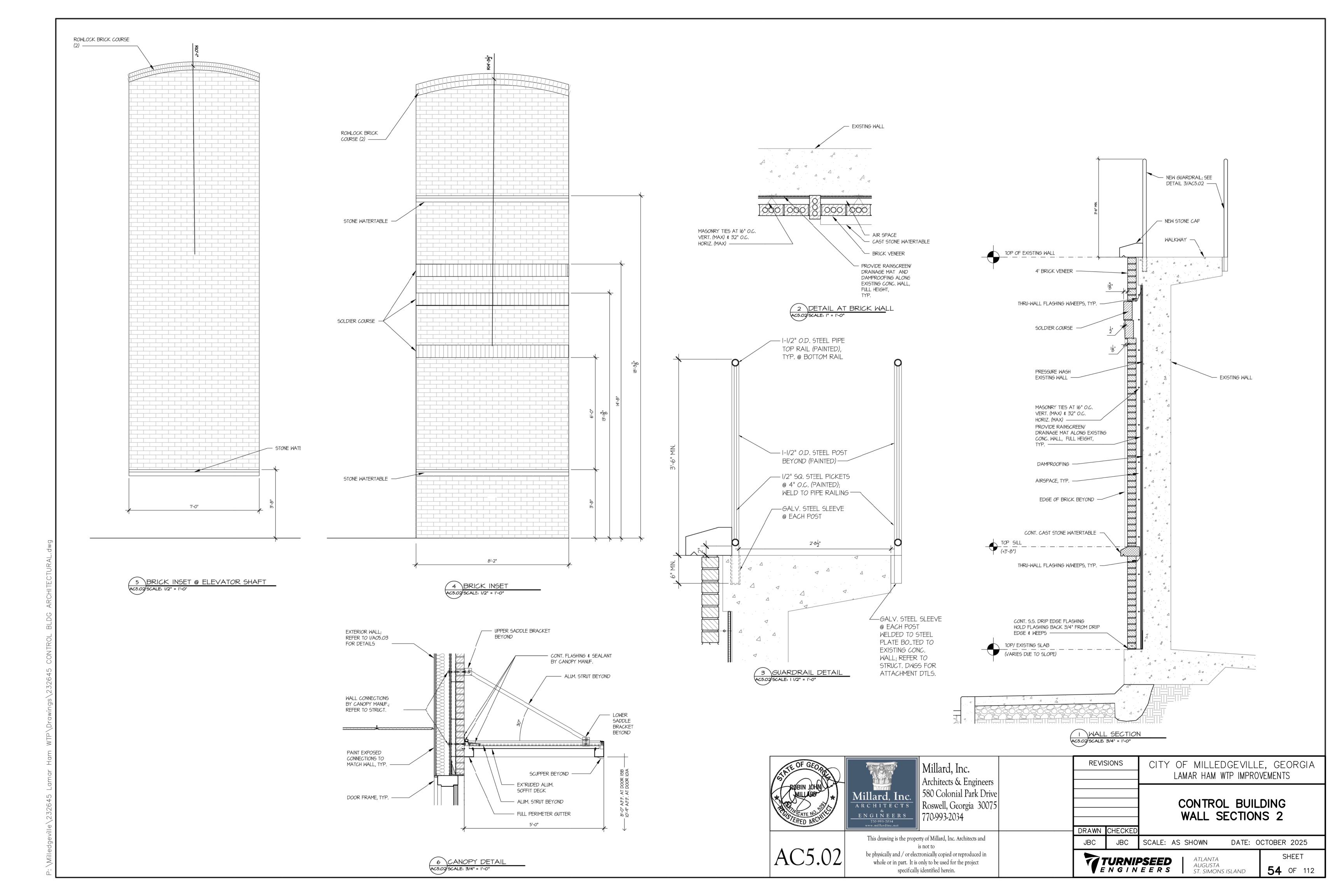


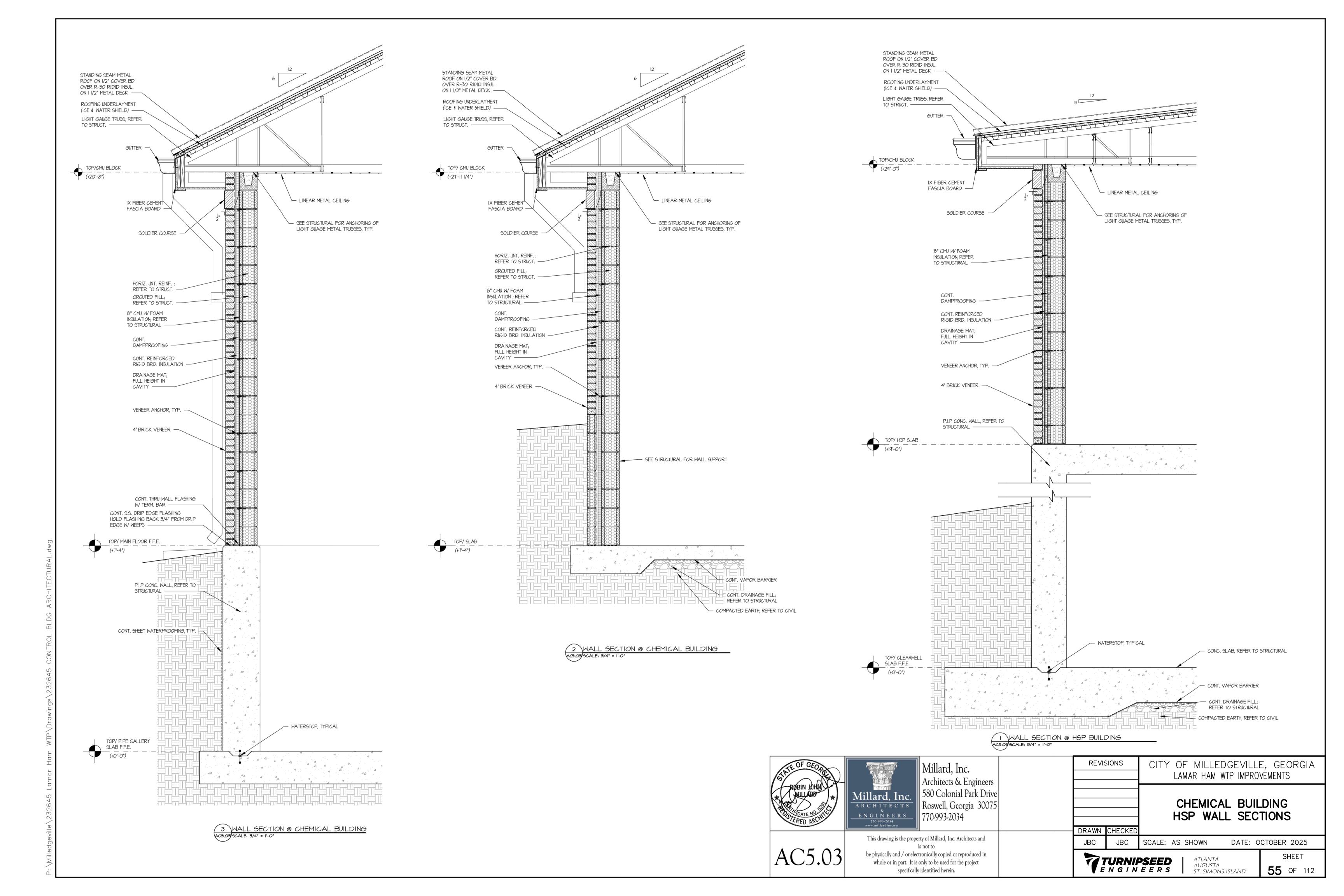
BUILDING SECTION
A4.04 SCALE: 1/4" = 1'-0"

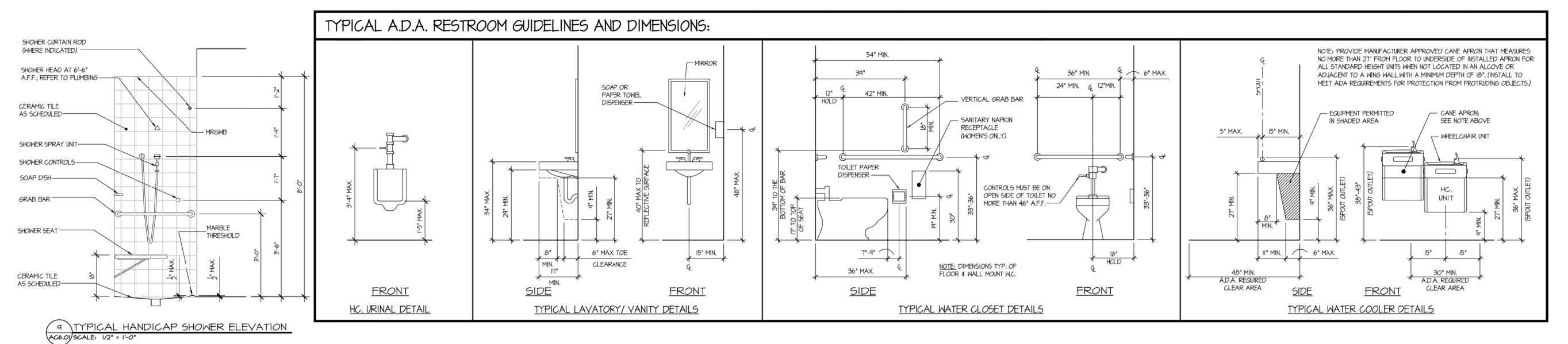


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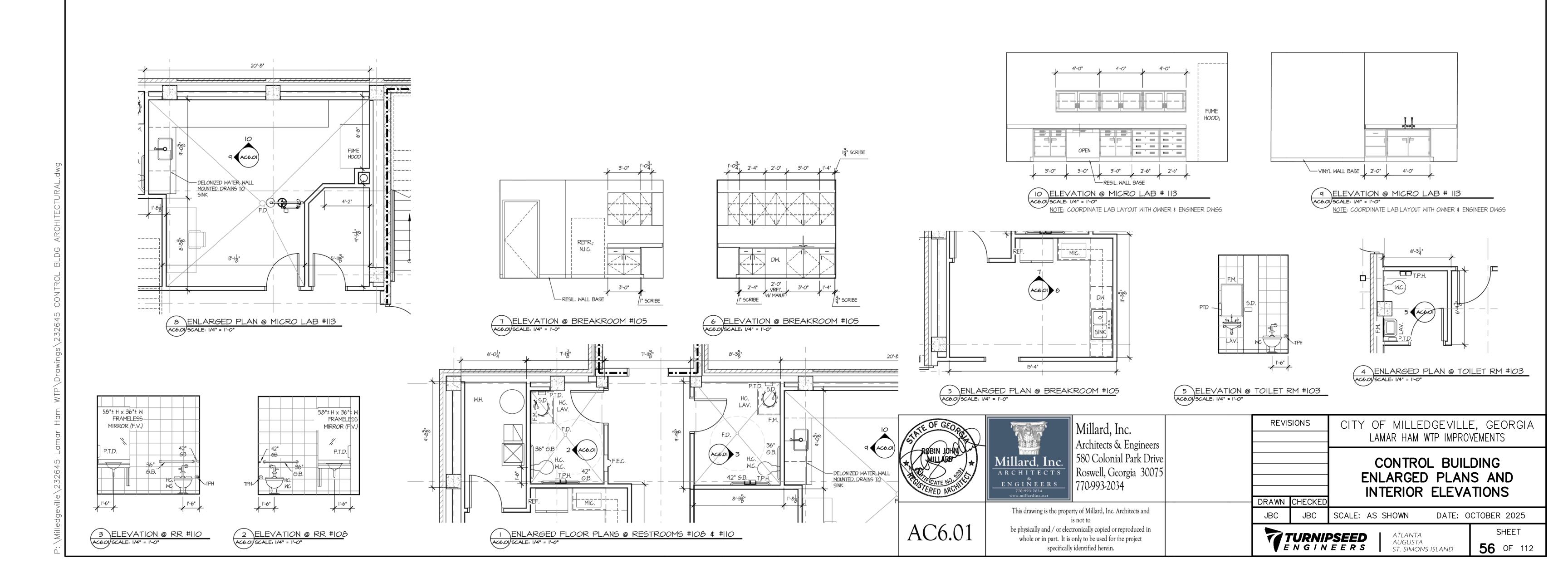
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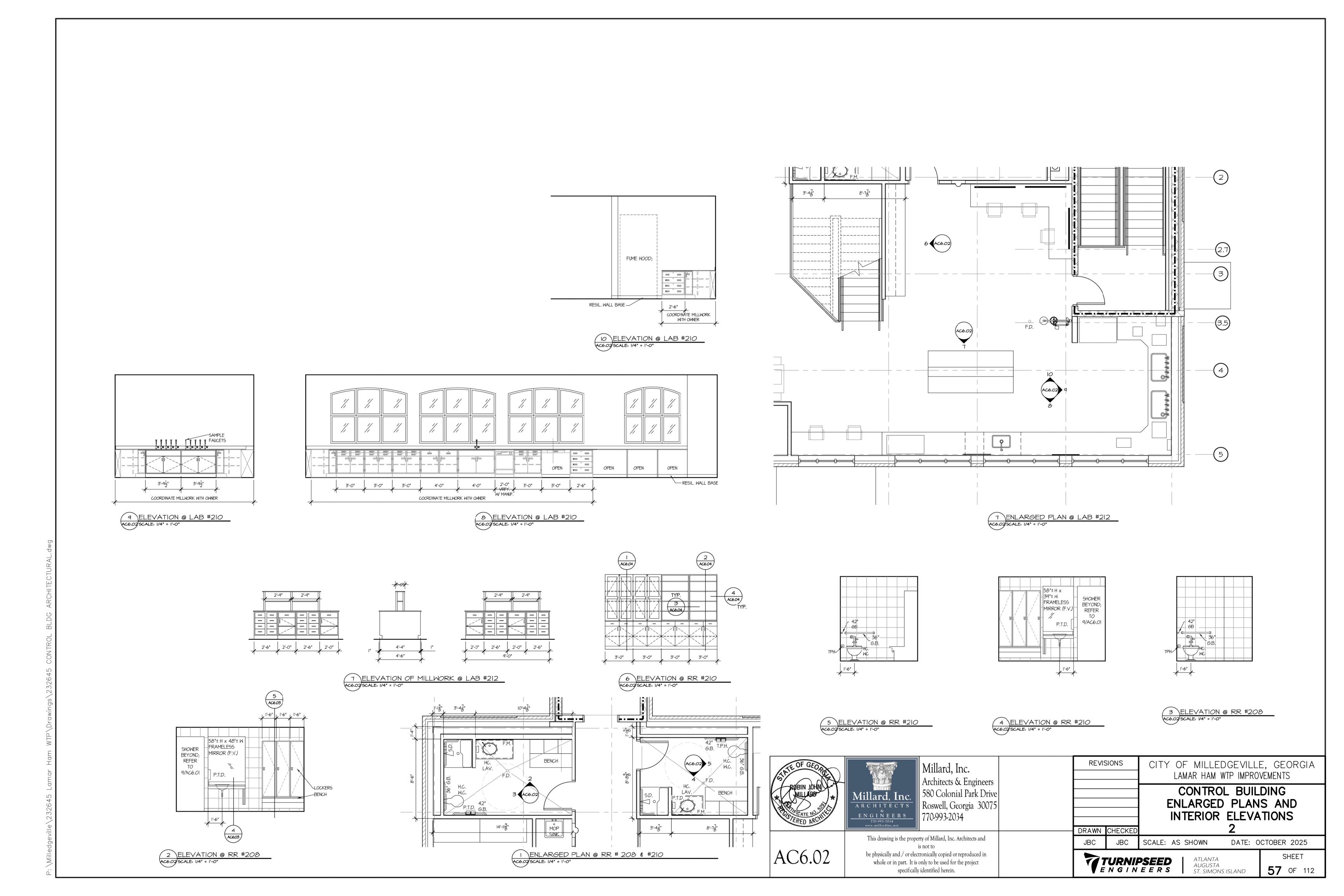
- VERIFY ALL DIMENSIONS IN FIELD & COORD. W ALL APPLIANCES PRIOR TO SUBMITTAL REVIEW & FABRICATING EACH MILLWORK.
- 2. ALL EXPOSED EXTERIOR SURFACES SHALL RECEIVE HIGH PRESSURE PLASTIC LAMINATE FINISH & ALL INTERIOR SURFACES OF CABINETS AND DRAWERS SHALL RECEIVE LOW PRESSURE PLASTIC LAMINATE FINISH AS
- 3. ALL WALL CABINETS SHALL HAVE GYPSUM BOARD SOFFITS ABOVE, UNLESS INDICATED OTHERWISE.
- 4. MILLWORK HARDWARE SHALL BE AS FOLLOWS, OR APPROVED EQUAL:
- a. HINGES:
- GRASS; CONCEALED; SELF-CLOSING, 170°
- b. DRAWER SLIDES: ACCURIDE; MODEL 7400 SLIDE SERIES (MEDIUM-DUTY)
- c. PULLS: STANLEY; MODEL 4484 (ALUM. 4" WIRE PULLS)

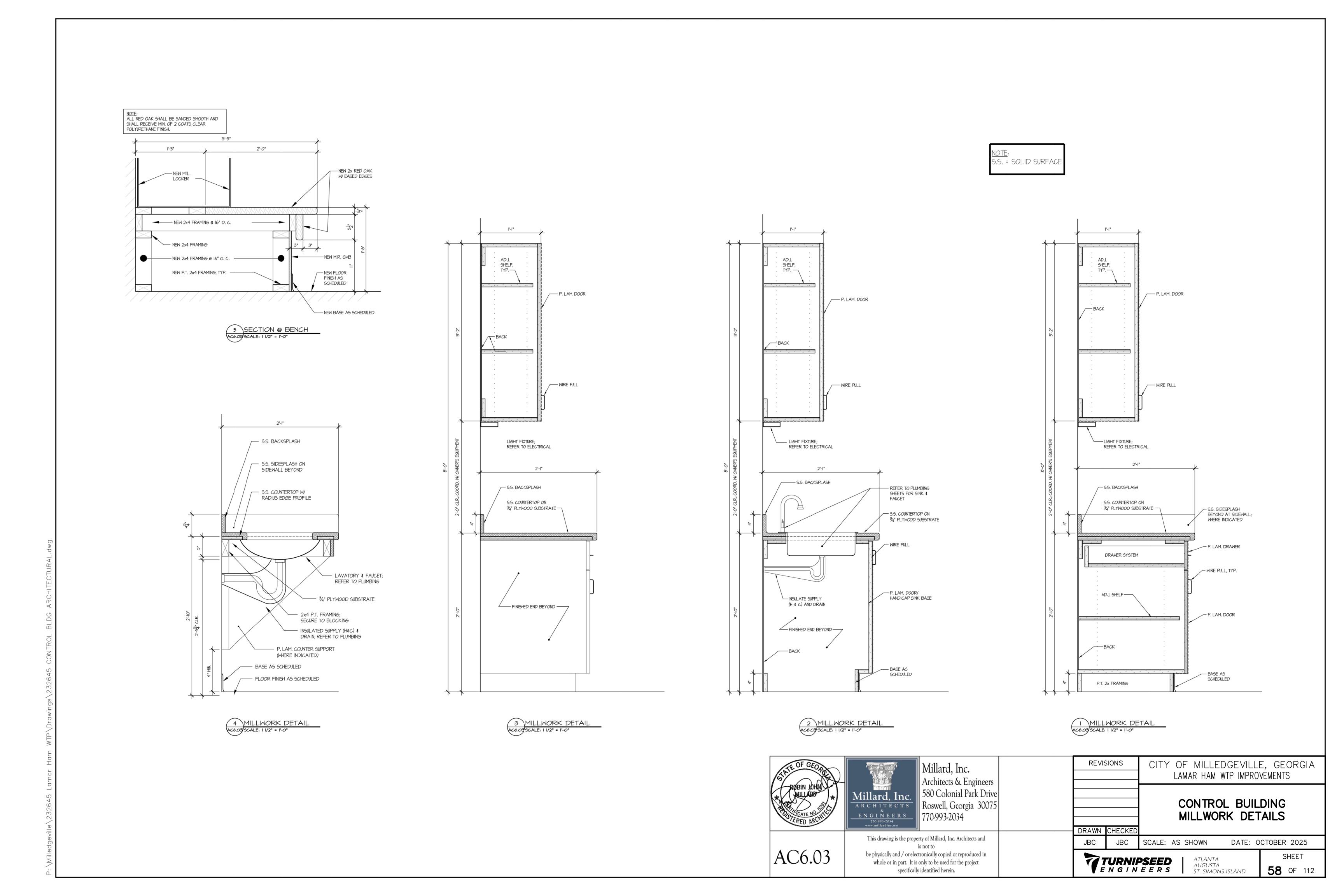
SPECIFIED, UNLESS INDICATED OTHERWISE.

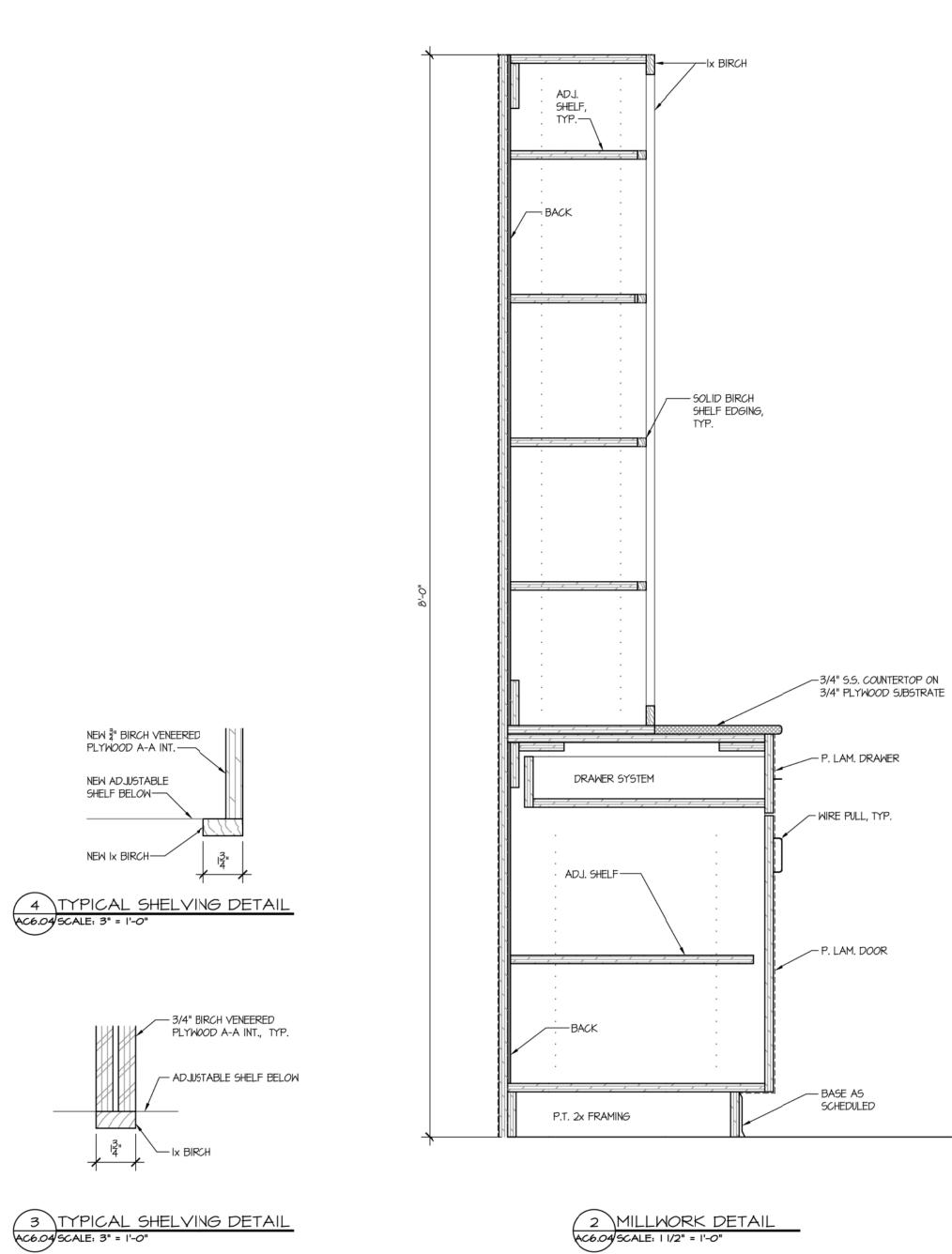
- REMAINDER OF MILLWORK HARDWARE SHALL BE MANUFACTURER'S
- STANDARD MEDIUM-DUTY HARDWARE.

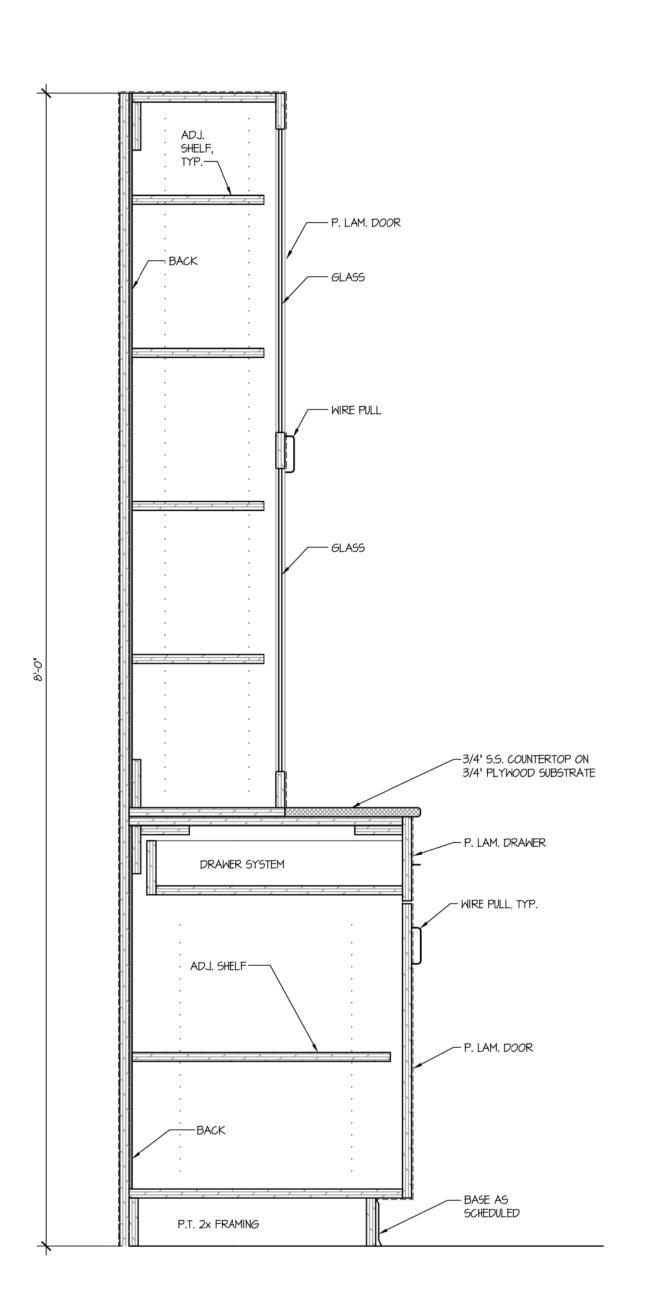
PROVIDE SOLID WOOD BLOCKING IN WALLS WHERE REQUIRED FOR TOILET ROOM ACCESSORIES, FIXTURES, MILLWORK, MONITORS, ETC.

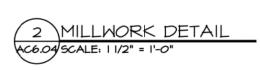


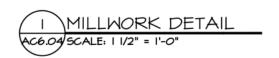


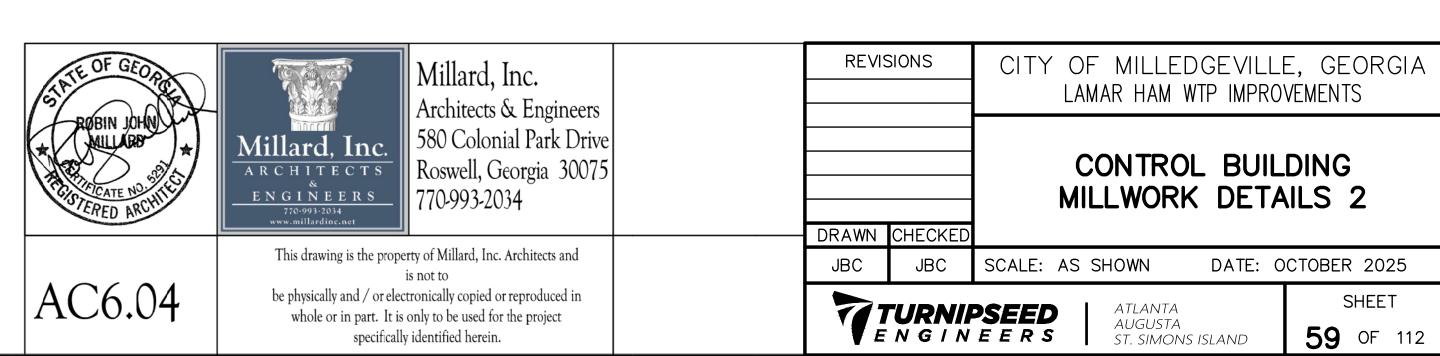


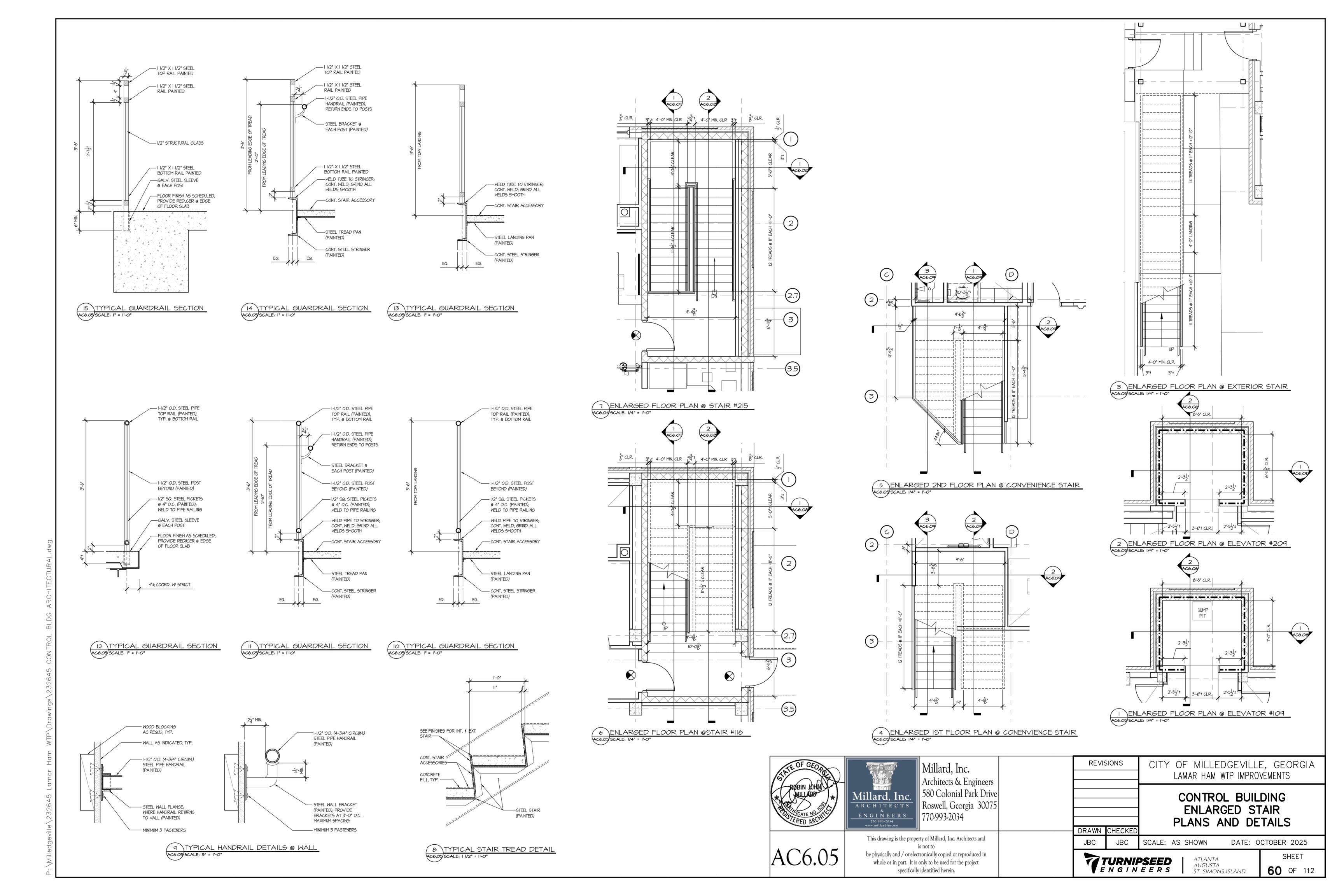


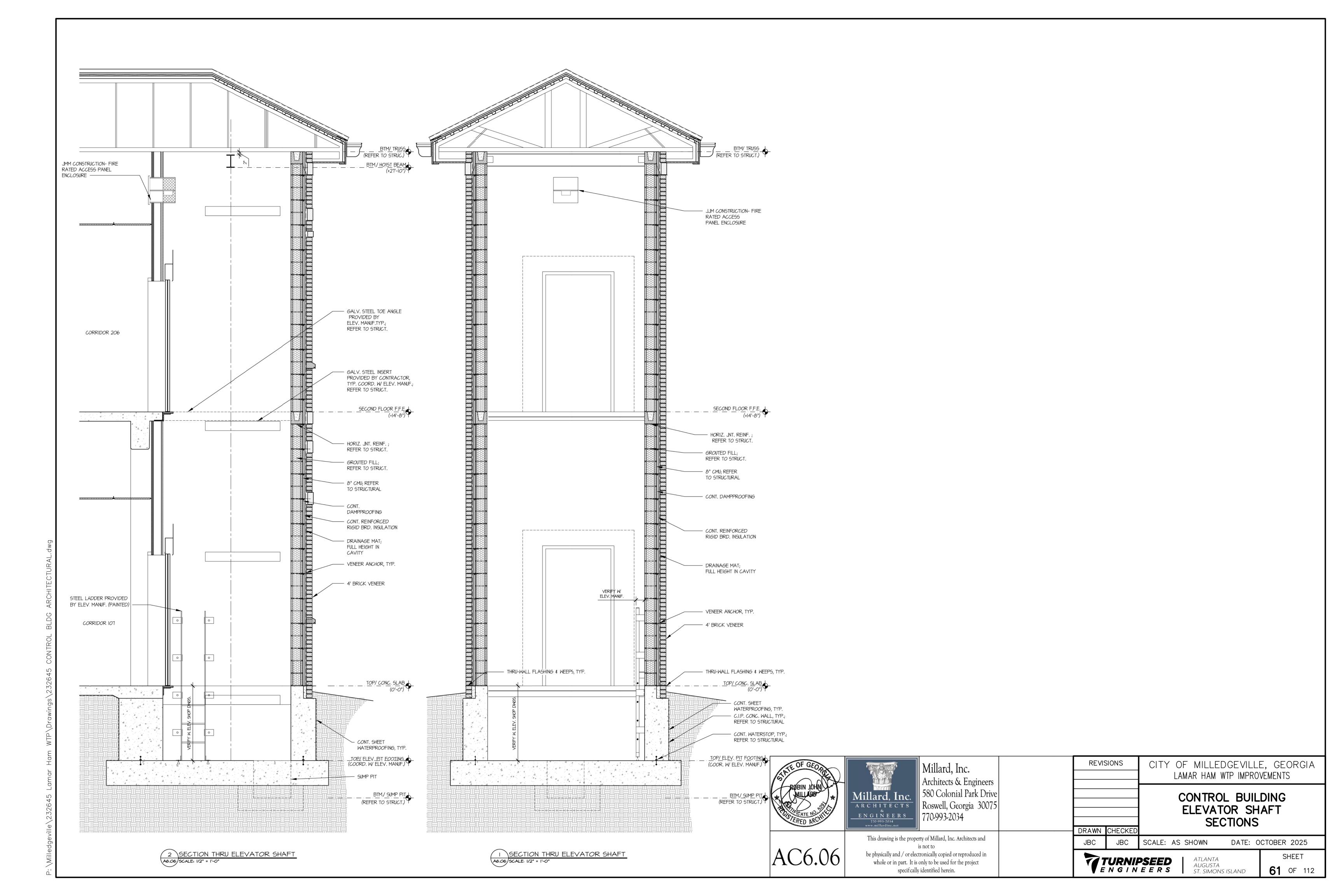


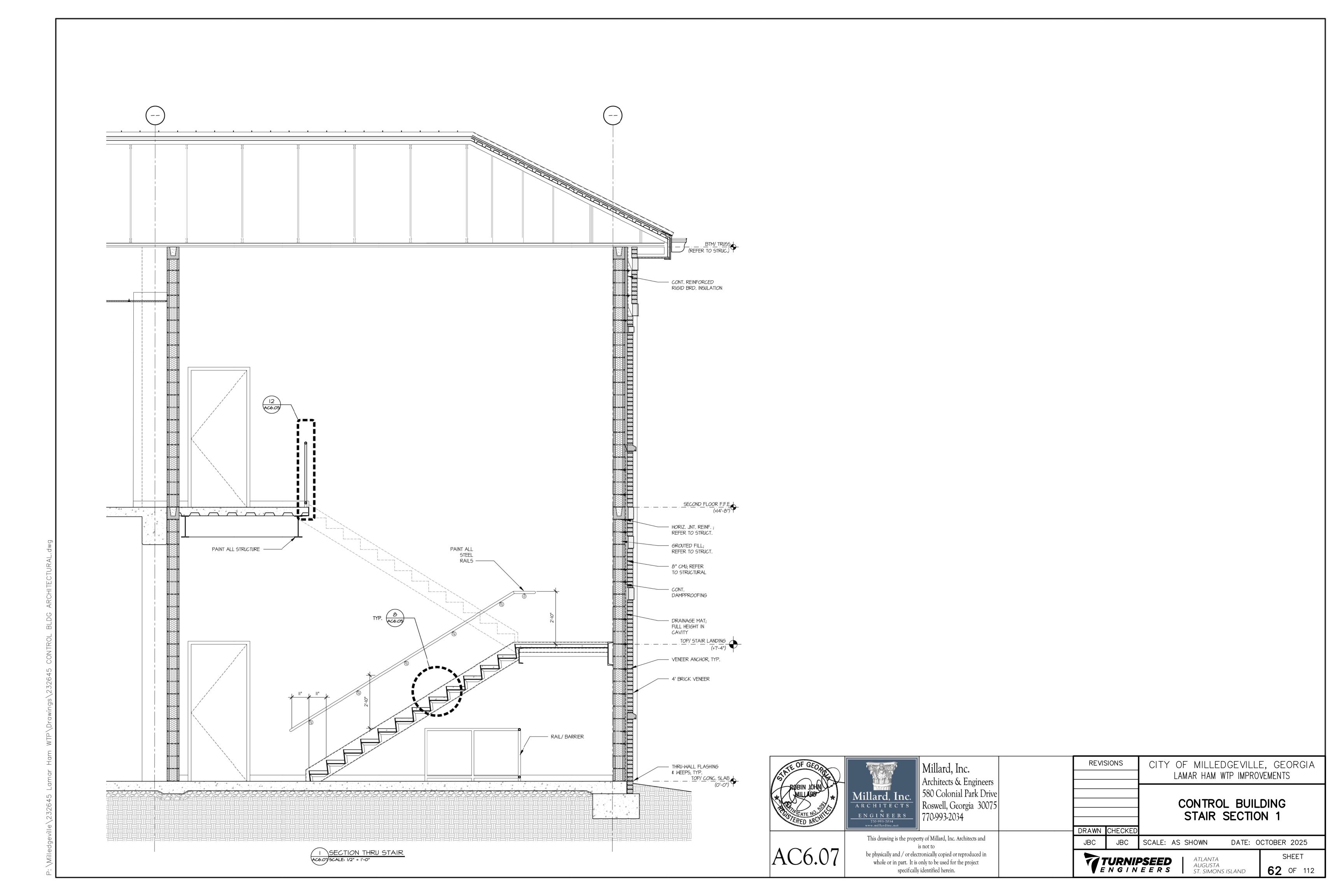


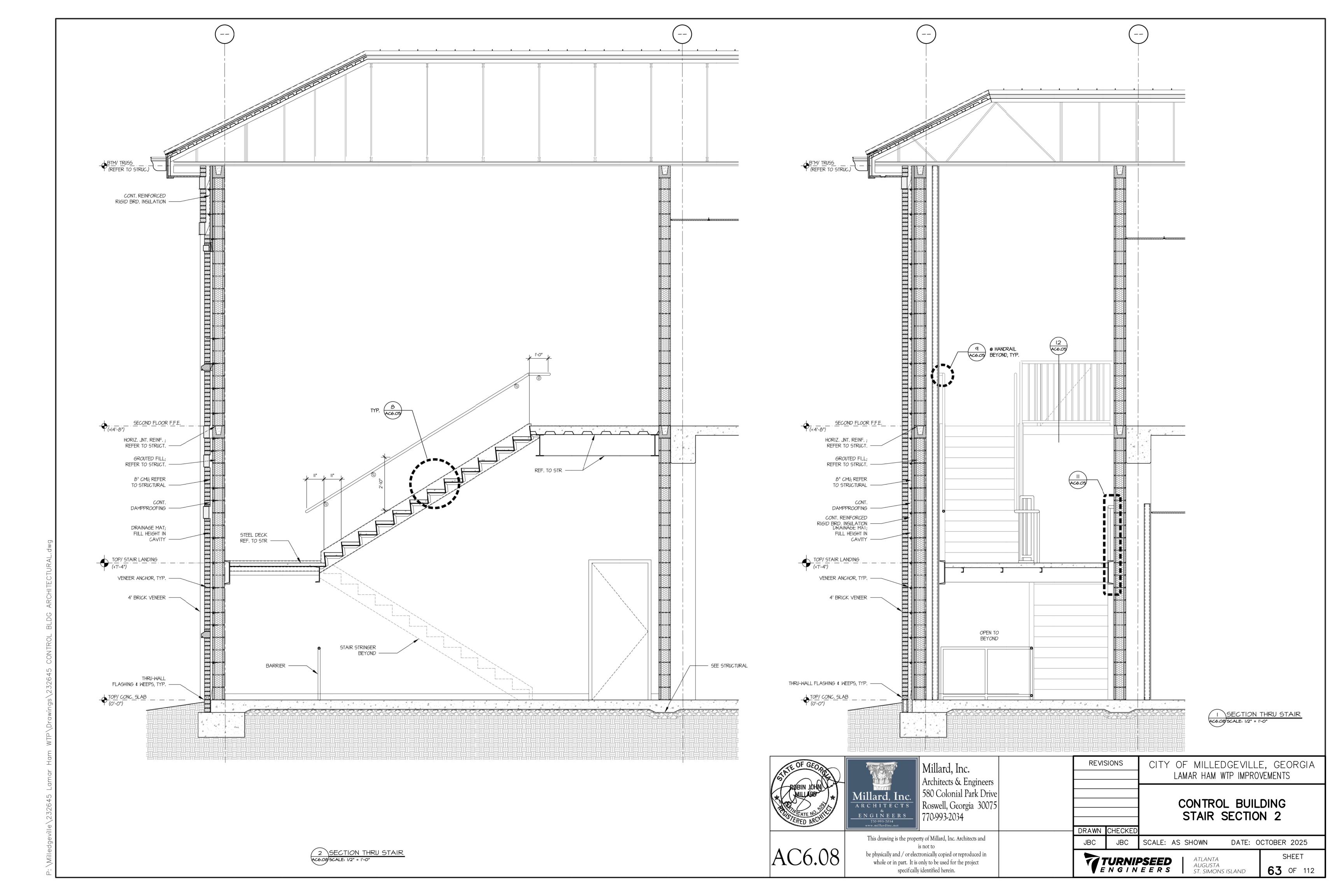


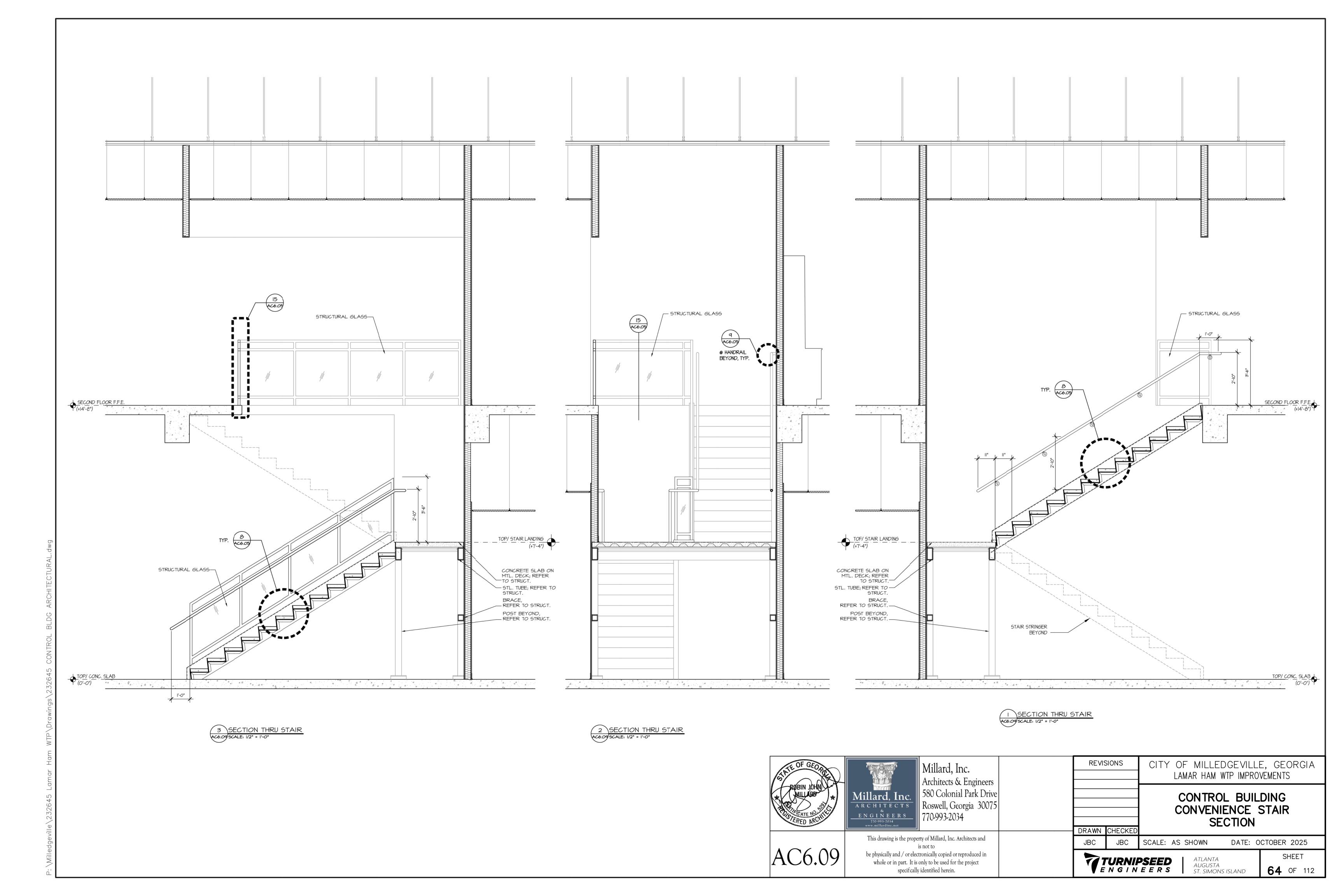


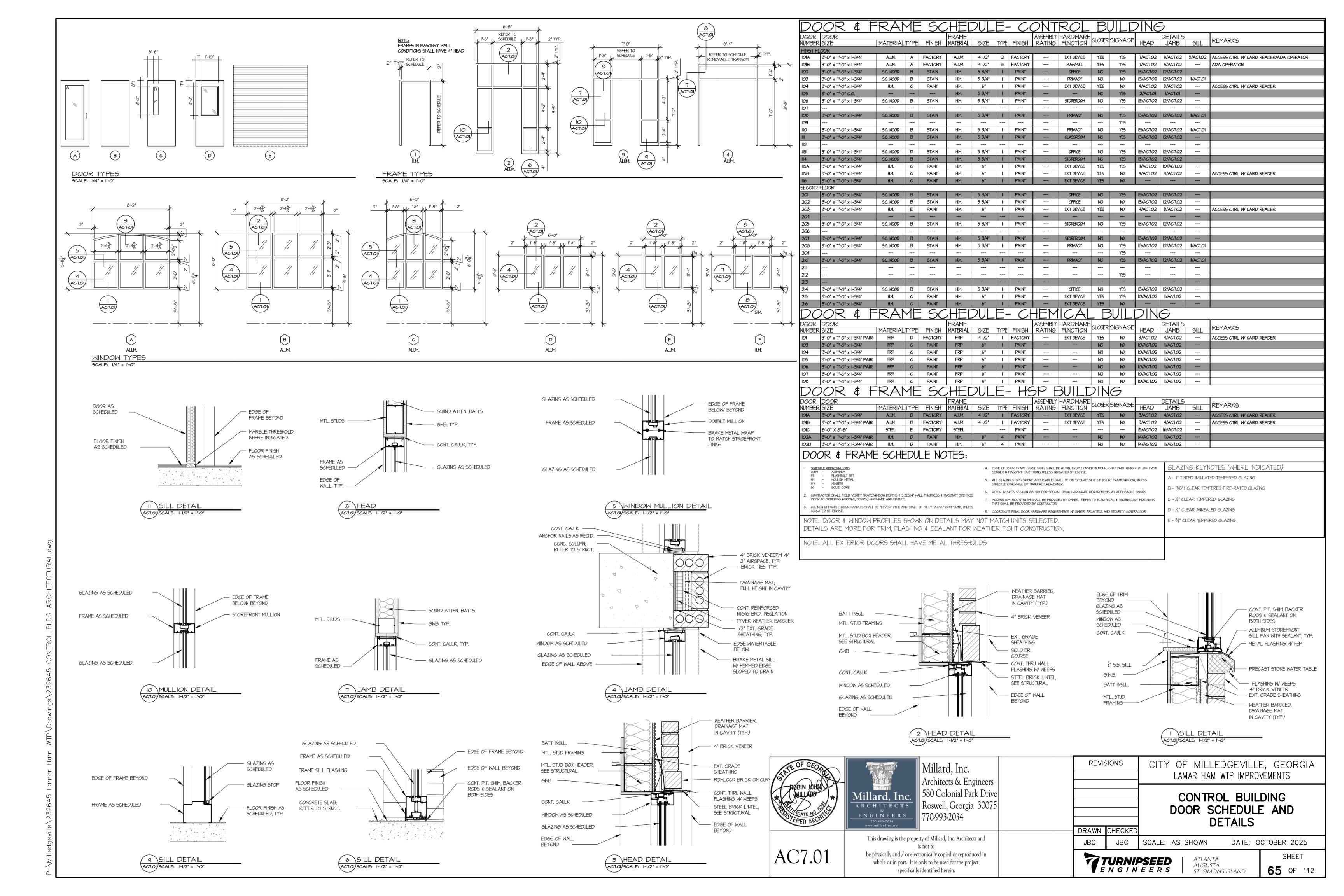


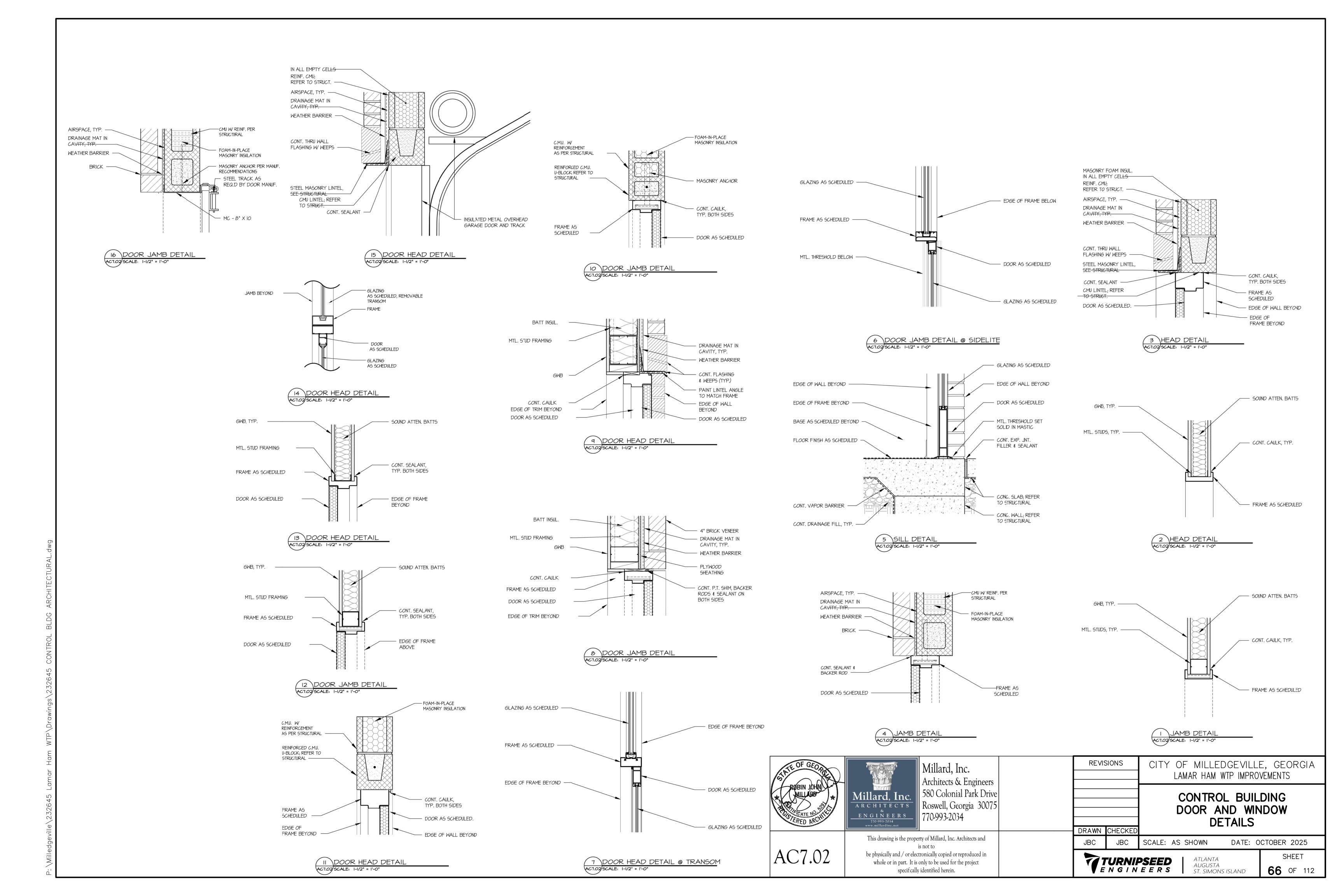


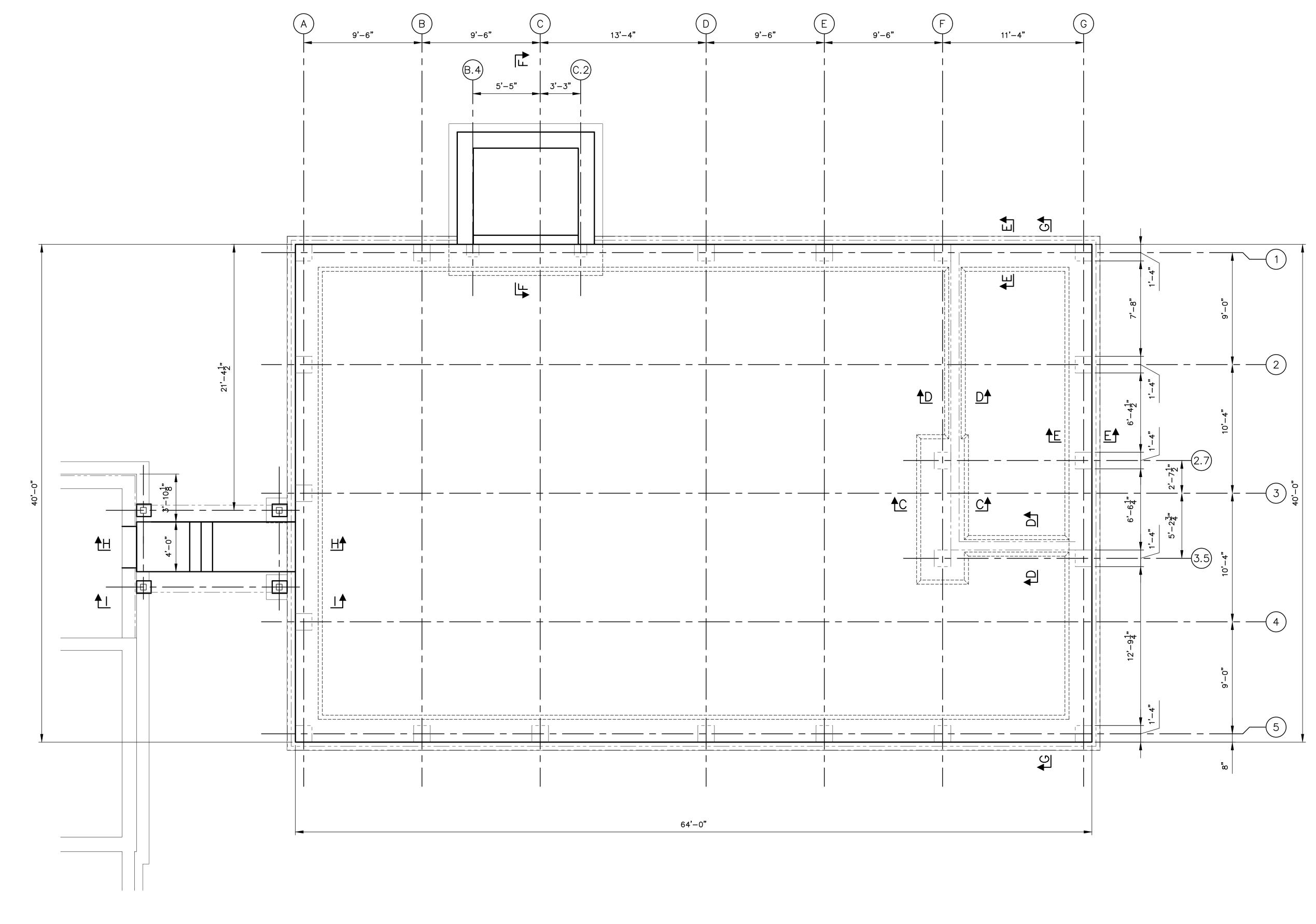












FIRST FLOOR STRUCTURAL PLAN

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



DRAWN CHECKED	CONTROL BUILDING FOUNDATION PLAN
REVISIONS	CITY OF MILLEDGEVILLE, GEORGIA LAMAR HAM WTP IMPROVEMENTS
	CONTRACT 1

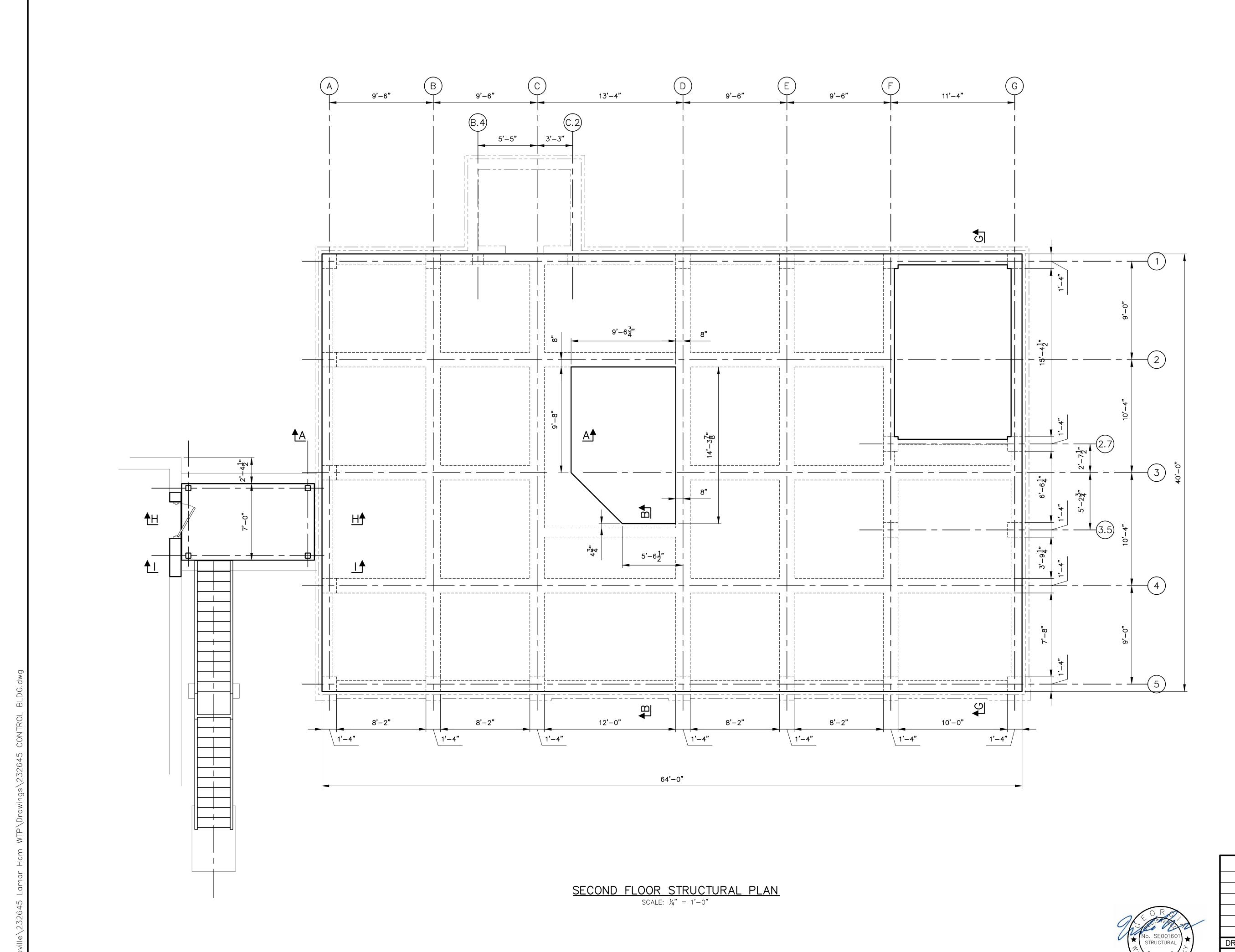
KA WDT SCALE: AS SHOWN DATE: OCTOBER 2025

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ATLANTA
AUGUSTA
ST. SIMONS ISLAND

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P:\Milledgeville\232645 Lamar Ham WTP\Drawings\232645



CONTRACT 1

REVISIONS CITY OF MILLEDGEVILLE, GEORGIA LAMAR HAM WTP IMPROVÉMENTS

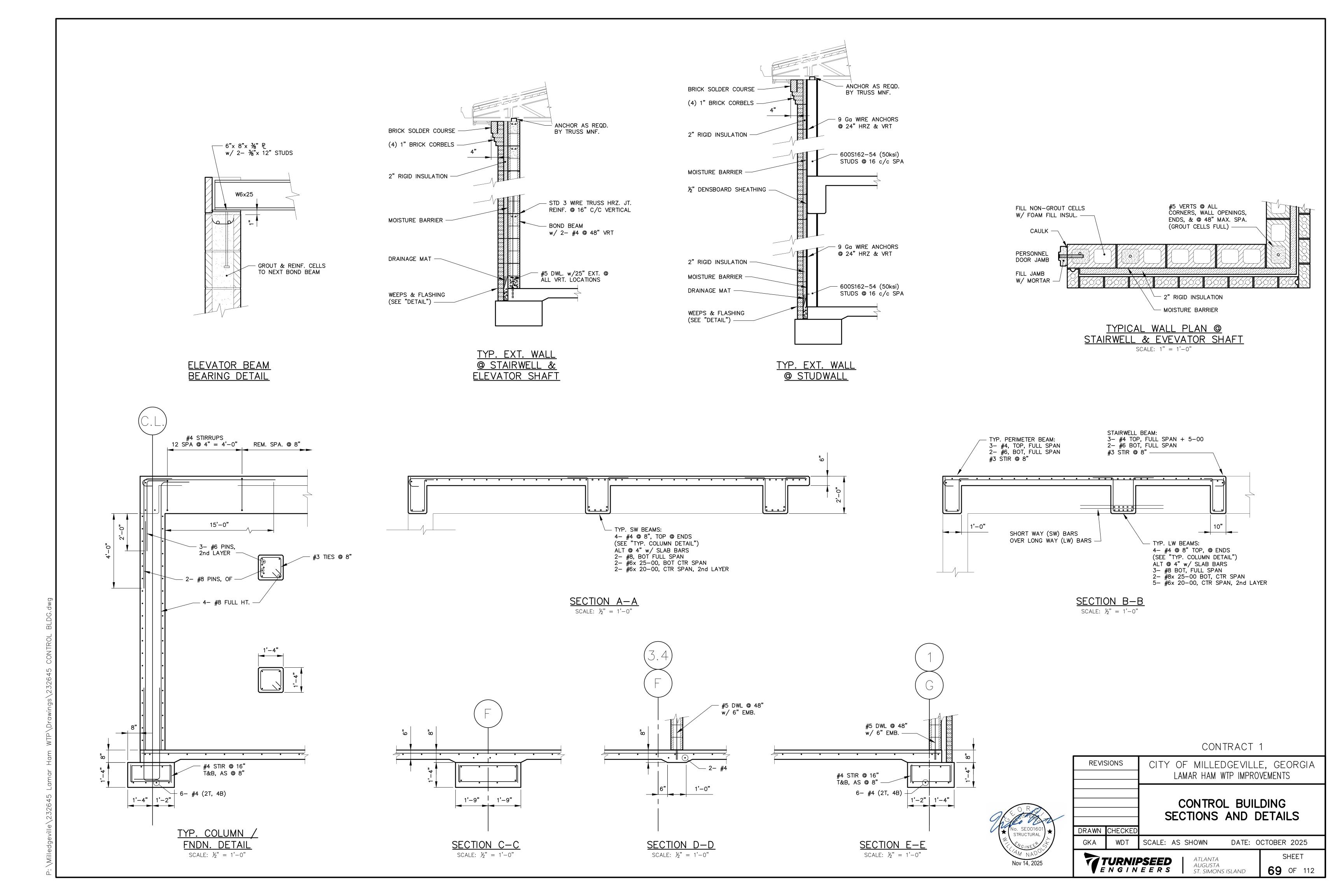
CONTROL BUILDING SECOND FLOOR STRUCTURAL PLAN

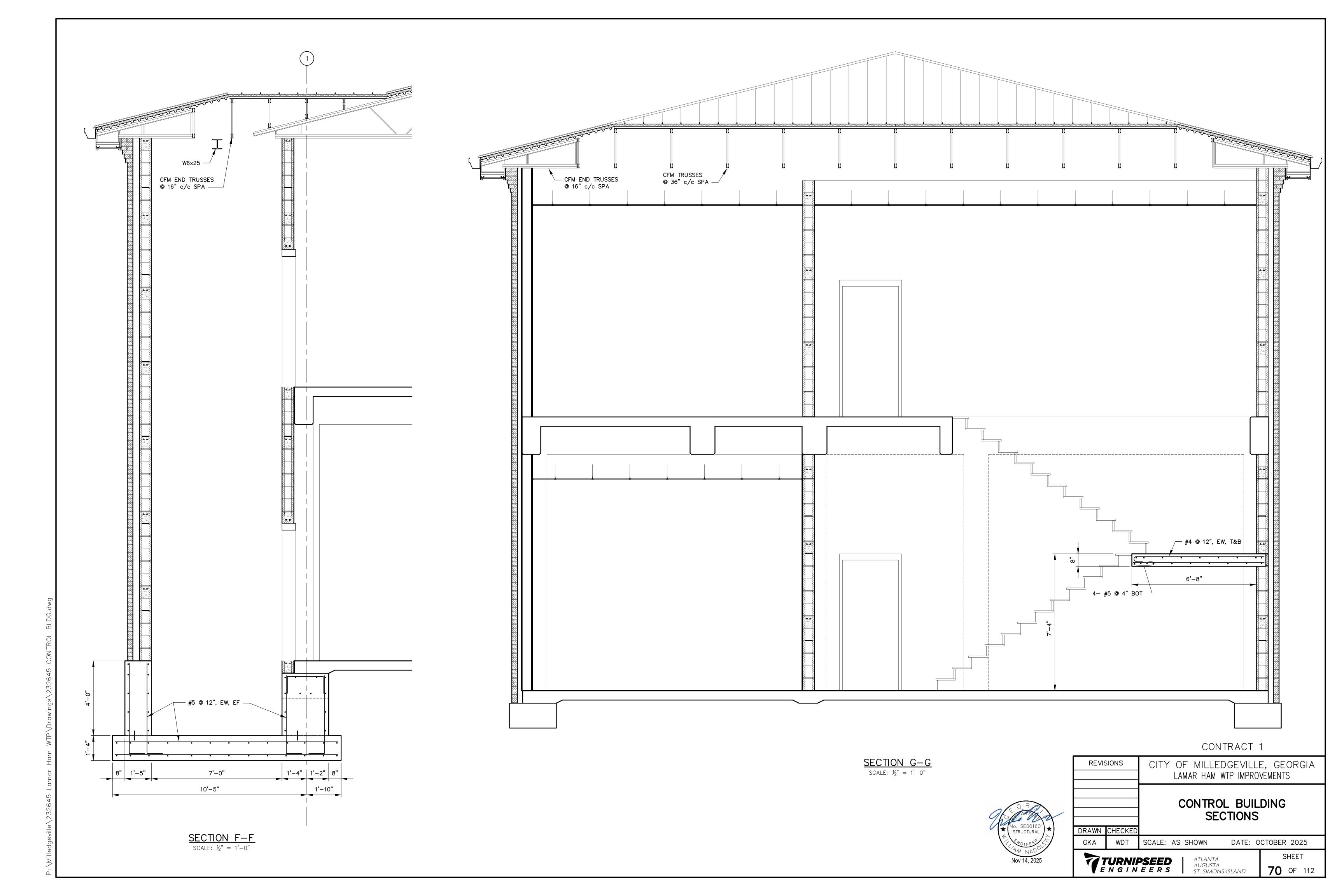
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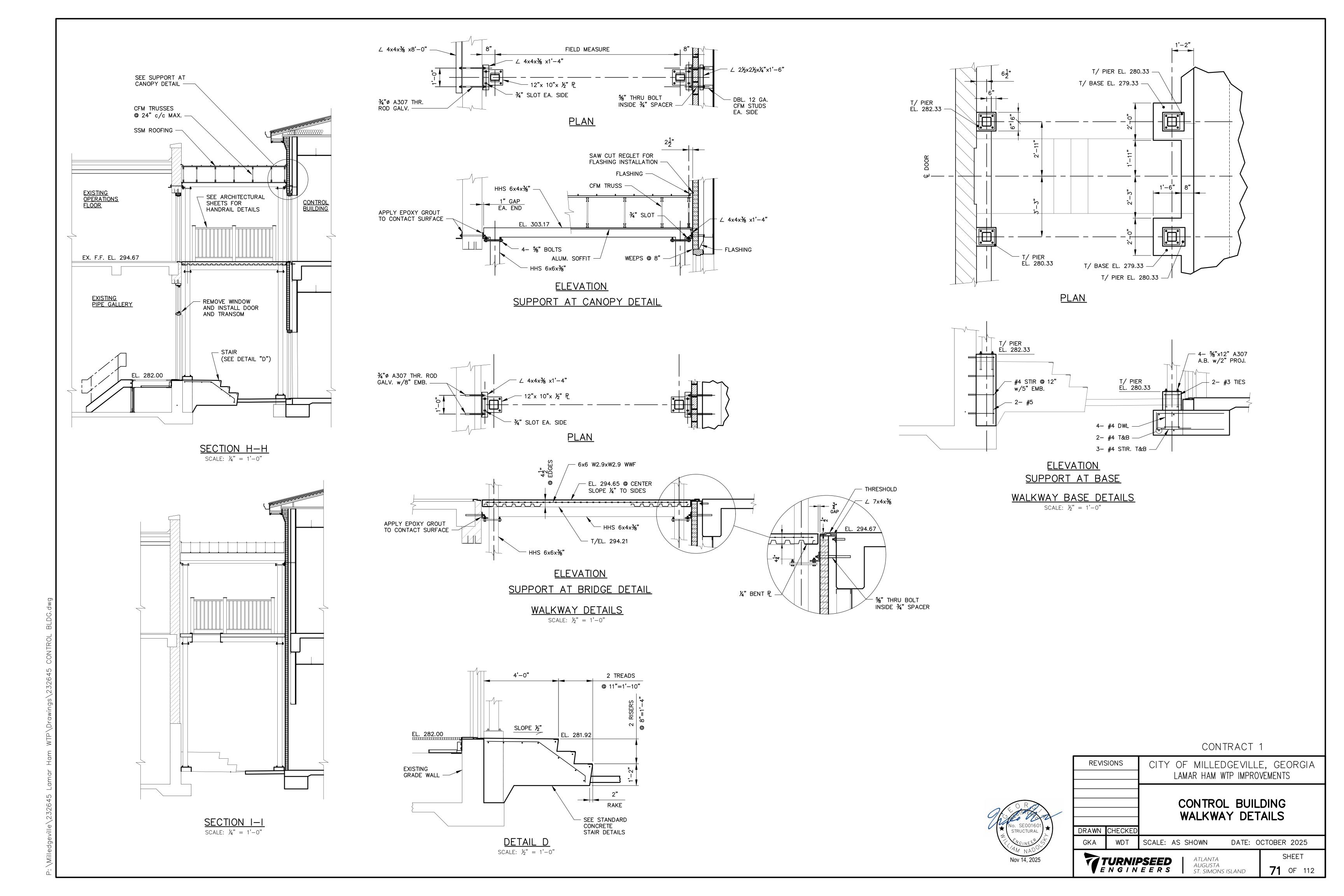
TURNIPSEED ENGINEERS

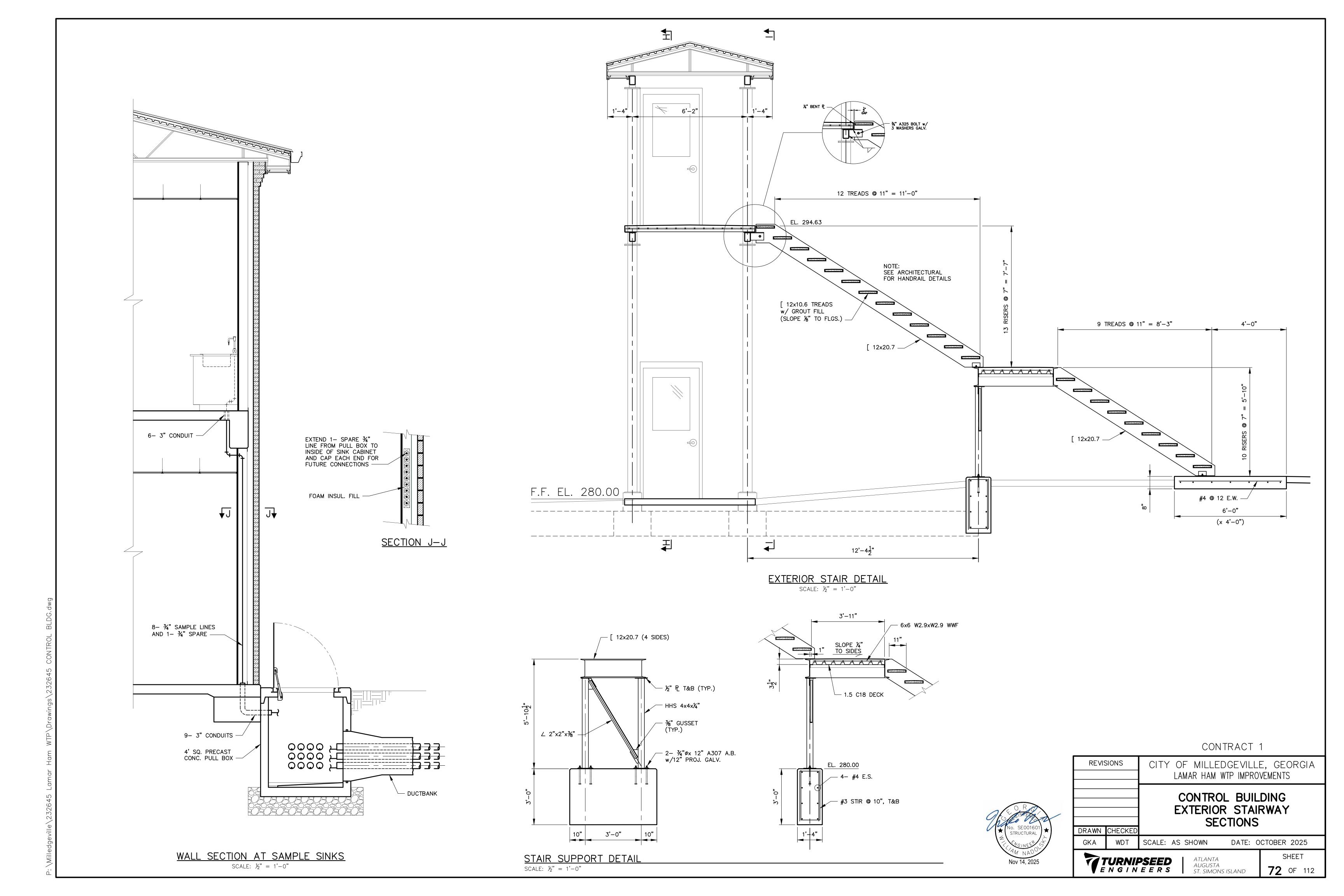
SHEET **68** OF 112

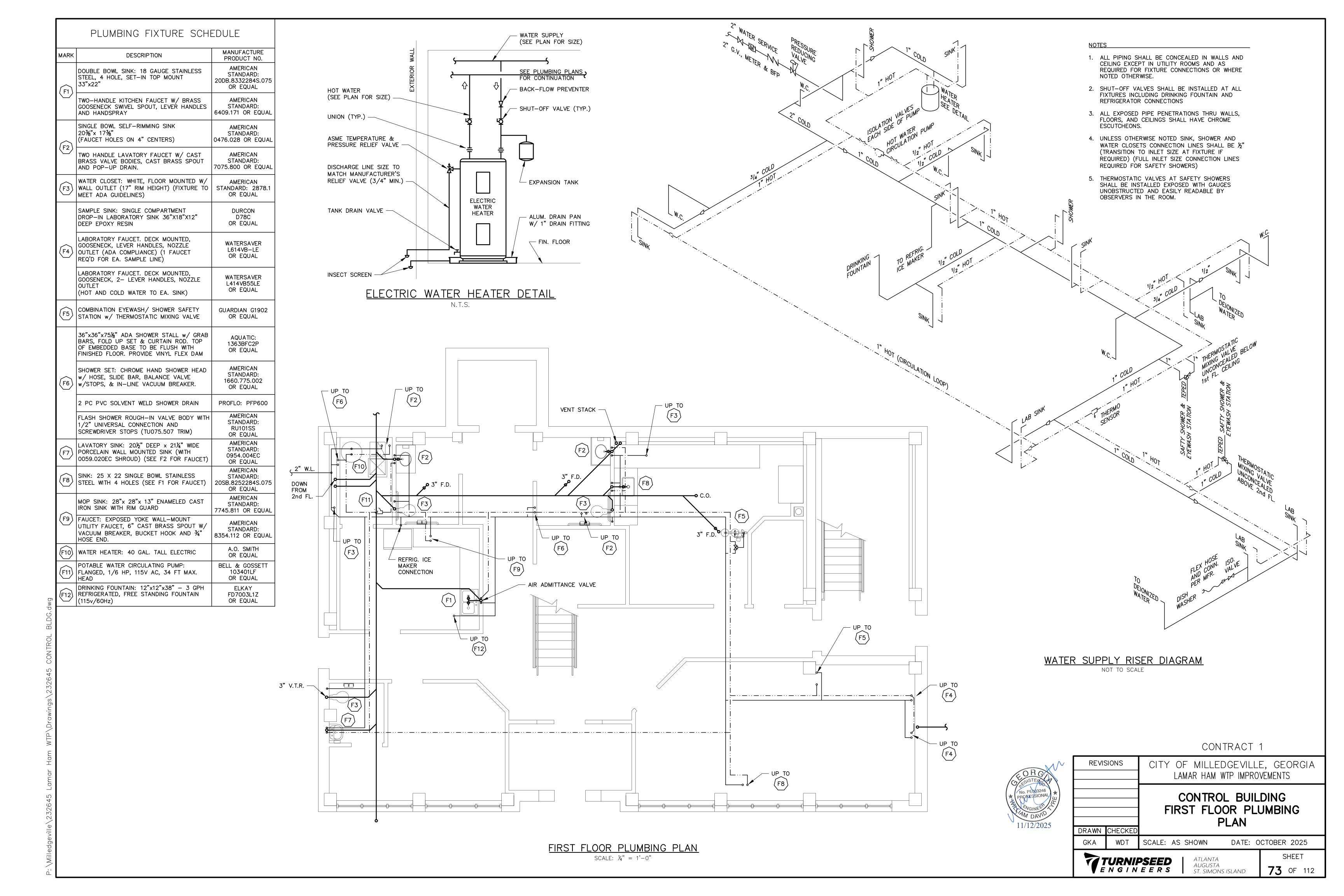
ATLANTA AUGUSTA ST. SIMONS ISLAND

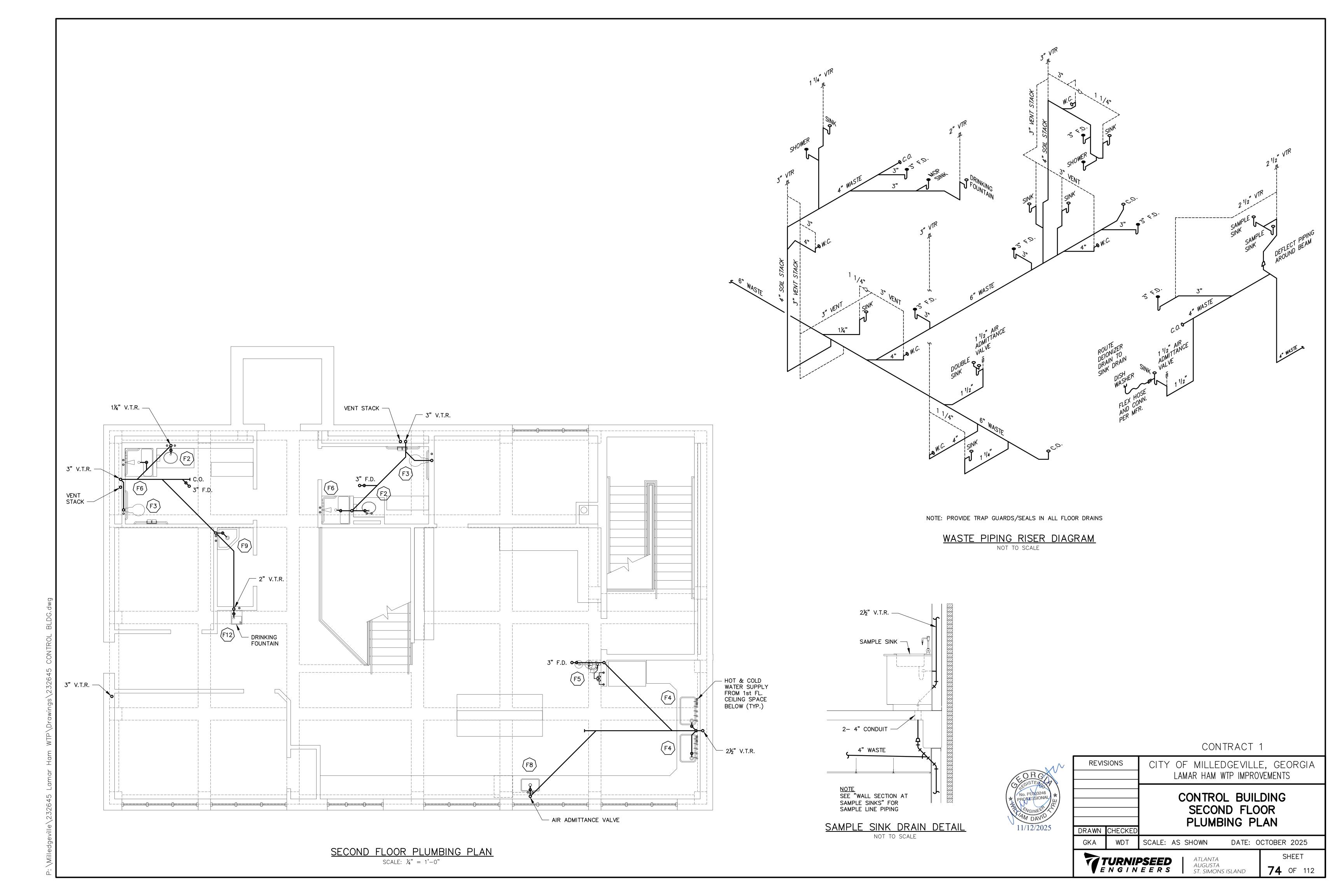


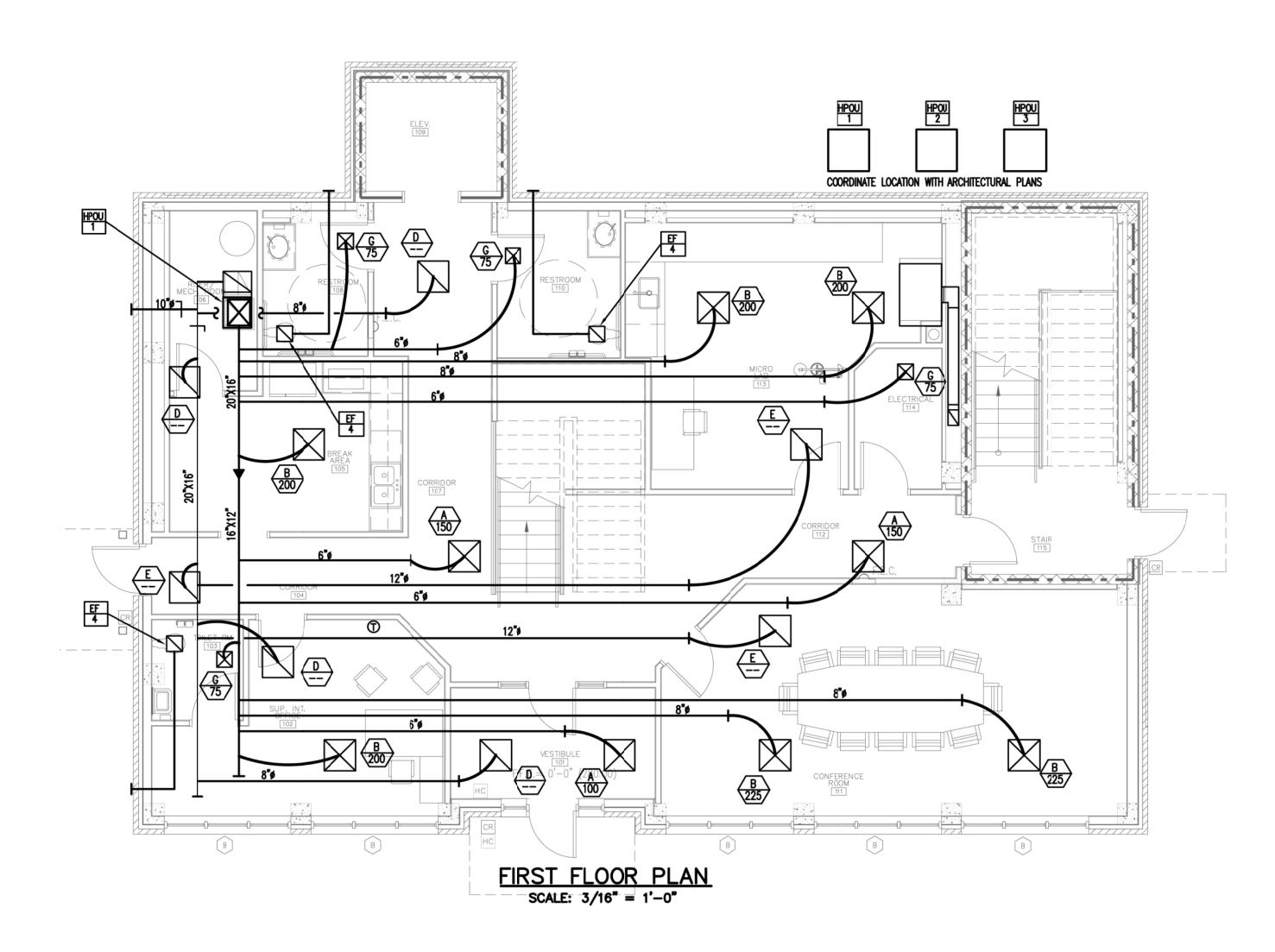


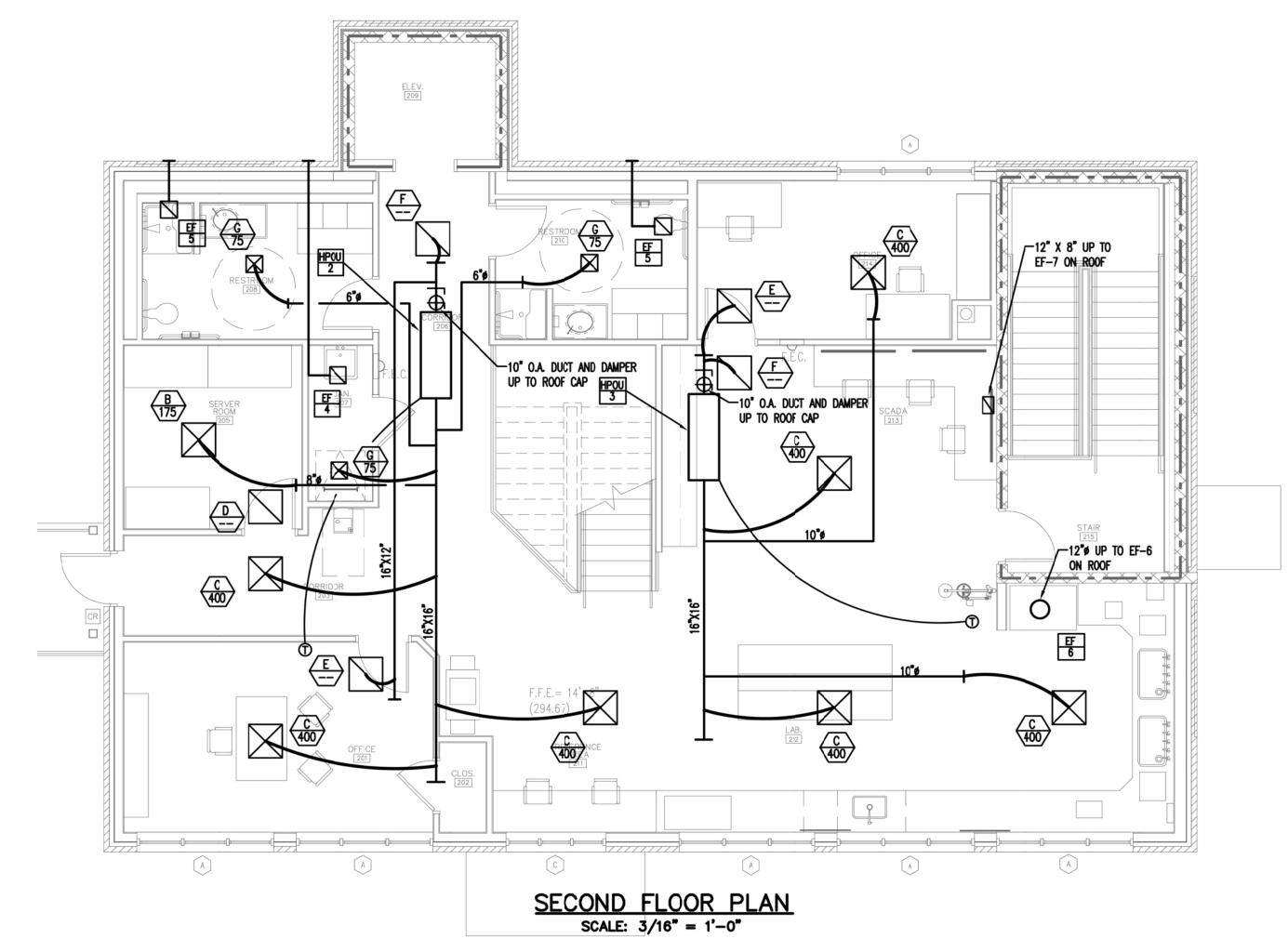




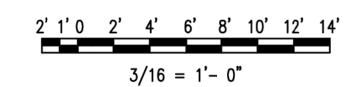


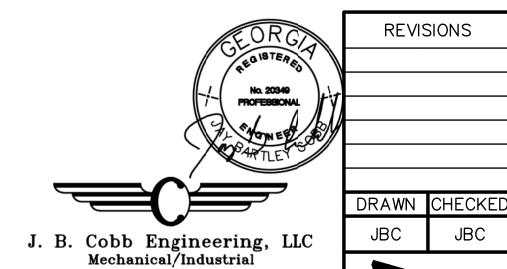






	HVAC SYMBOLS AN	ID AE	BBREVIATIONS
\sim	SUPPLY AIR DUCT UP/DOWN	CHWR	CHILLED WATER RETURN
	RETURN/EXHAUST AIR DUCT UP/DOWN	CHWS	CHILLED WATER SUPPLY
	NEW DUCTWORK	CU-*	CONDENSING UNIT
: :	NEW DUCTWORK	DIA.	DIAMETER
	FLEXIBLE DUCT	EF-*	EXHAUST FAN
	VOLUME DAMPER	ES	EQUAL SPLIT
\boxtimes	SUPPLY DIFFUSER	F-*	FILTER
	RETURN OR EXHAUST GRILLE	FURN-*	FURNACE
Û	THERMOSTAT	GA	GAUGE
— <u>P</u>	PRESSURE SENSOR	OA	OUTSIDE AIR
2	SMOKE DETECTER	OE	OPEN ENDED DUCT
$\overline{}$	FIRE DAMPER	SD	SPLITTER DAMPER
\	FIRE/SMOKE DAMPER	U/G	UNDERGROUND
s —⊃	PIPE TURNED DOWN	UH-*	UNIT HEATER
s—0	PIPE TURNED UP	VD.	VOLUME DAMPER
ф - \$	BRANCH PIPE OFF MAIN	A/C-*	AIR CONDITIONING SYSTEM
CFM	CUBIC FEET PER MINUTE	AFF	ABOVE FINISHED FLOOR
		AHU-*	AIR HANDLING UNIT





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REVISIONS CITY OF MILLEDGEVILLE, GEORGIA
LAMAR HAM WTP IMPROVEMENTS

SCALE: AS SHOWN

CONTROL BUILDING HVAC PLANS

TURNIPSEED ENGINEERS

ATLANTA AUGUSTA ST. SIMONS ISLAND

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ABBREV.	DECRIPTION	ABBREV.	DECRIPTION
A AAV	AIR AUTOMATIC AIR VENT	JAN	JANITOR
A/C	ABOVE CEILING	KW	KILOWATT(S)
AFF	ABOVE FINISHED FLOOR		LAVATORY
AFG AGA	ABOVE FINISHED GRADE AMERICAN GAS ASSOCIATION	LAV LG	LAVATORY
AHU	AIR HANDLING UNIT		
APPROX	APPROXIMATE(LY)	MAX	MAXIMUM
ARFCO	ACID RESISTANT FLOOR CLEANOUT	MECH	MECHANICAL
ARFD ARCH	ACID RESISTANT FLOOR DRAIN ARCHITECTURAL OR ARCHITECT	MFR MH	MANUFACTURER MANHOLE
ARTD	ACID RESISTANT TRENCH DRAIN	MIN	MINIMUM
ASTM	AMERICAN SOCIETY FOR		
A\.	TESTING MATERIALS	N N	NITROGEN
AV AVTR	ACID VENT ACID VENT THRU ROOF	N/A NC	NOT APPLICABLE NORMALLY CLOSED
AW	ACID WASTE	NFPA	NATIONAL FIRE PROTECTION
			ASSOCIATION
B/F	BELOW FLOOR	NG	NATURAL GAS
BFP BLDG	BACKFLOW PREVENTER BUILDING	NIC NO	NOT IN CONTRACT NORMALLY OPEN
BMS	BUILDING MANAGEMENT SYSTEM	NO.	NUMBER
B.O.P.	BOTTOM OF PIPE	NPW	NON-POTABLE WATER
BRF	BELOW RAISED FLOOR	NTS	NOT TO SCALE
BV	BALL VALVE		OVYCEN
CB	CATCH PASIN	02 0C	OXYGEN ON CENTER
CB CLG	CATCH BASIN CEILING	OD	OUTSIDE DIAMETER
CI	CAST IRON	OPNG	OPENING OPENING
CIRC	CIRCULATION	55	POLYPUT (EVE
CO	CLEANOUT	PB PLMB	POLYBUTYLENE PLUMBING
COL	COLUMN CONCRETE	PLMB	PRESSURE GAUGE
CONN	CONNECT	PP	PLUMBING PUMP
CONT	CONTINUATION	PRESS	PRESSURE
CONTR	CONTRACTOR	PRV PSI	PRESSURE REDUCING VALVE POUNDS PER SQUARE INCH
CP CW	CIRCULATING PUMP COLD WATER	PVC	POLYVINYL CHLORIDE
CV	CHECK VALVE	PW	POTABLE WATER
D	DRAIN	QTY	QUANTITY
DET	DETAIL DRINKING FOLINTAIN	DEO'S	PEOLIBED
DF DIA	DRINKING FOUNTAIN DIAMETER	REQ'D RET	REQUIRED RETURN
DIM	DIMENSION	RD	ROOF DRAIN
DN	DOWN	RL	RAIN LEADER
DOM DS	DOMESTIC DOWNSPOUT	RO RPM	REVERSE OSMOSIS
DWGS	DRAWINGS	RPPBFP	REVOLUTIONS PER MINUTE REDUCED PRESS. ZONE BFP
DWV	DRAINAGE, WASTE & VENT	RTU	ROOFTOP UNIT
	54011		
EA EDF	EACH ELECTRIC DRINKING FOUNTAIN	S	SOIL SHOCK ABSORBER
EL	ELEVATION	SCH	SCHEDULE SCHEDULE
ELEC	ELECTRIC OR ELECTRICAL	SECT	SECTION
EQUIP	EQUIPMENT	SF	SQUARE FOOT
ES/EW EWC	EMERGENCY SHOWER/EYEWASH ELECTRIC WATER COOLER	SIM	SIMILAR SPECIFICATIONS
EWH	ELECTRIC WATER HEATER	SPR	SPRINKLER
EX.	EXISTING	SQ	SQUARE
EXH	EXHAUST	SS	SERVICE SINK
EXP	EXPANSION	SSD	SUBSOIL DRAIN STORM
•F		111 -51	1 5 5 5 1 1 1
•	DEGREES FAHRENHEIGHT	STD	STANDARD
F	DEGREES FAHRENHEIGHT FIRE	STD STL	STEEL
F FCO	FIRE FLOOR CLEANOUT	STD	
F FCO FD	FIRE FLOOR CLEANOUT FLOOR DRAIN	STD STL STOR	STEEL STORAGE
F FCO FD FDC	FIRE FLOOR CLEANOUT FLOOR DRAIN FIRE DEPARTMENT CONNECTION	STD STL	STEEL
F FCO FD	FIRE FLOOR CLEANOUT FLOOR DRAIN	STD STL STOR TB TD TEMP	STEEL STORAGE THRUST BLOCK TRENCH DRAIN TEMPERATURE
F FCO FD FDC FHC FIN FLR	FIRE FLOOR CLEANOUT FLOOR DRAIN FIRE DEPARTMENT CONNECTION FIRE HOSE CONNECTION FINISH OR FINISHED FLOOR	STD STL STOR TB TD TEMP T/FTG	STEEL STORAGE THRUST BLOCK TRENCH DRAIN TEMPERATURE TOP OF FOOTING
F FCO FD FDC FHC FIN FLR FDC	FIRE FLOOR CLEANOUT FLOOR DRAIN FIRE DEPARTMENT CONNECTION FIRE HOSE CONNECTION FINISH OR FINISHED FLOOR FLEXIBLE	STD STL STOR TB TD TEMP T/FTG THRD	STEEL STORAGE THRUST BLOCK TRENCH DRAIN TEMPERATURE TOP OF FOOTING THREADED
F FCO FD FDC FHC FIN FLR FDC FLGD	FIRE FLOOR CLEANOUT FLOOR DRAIN FIRE DEPARTMENT CONNECTION FIRE HOSE CONNECTION FINISH OR FINISHED FLOOR FLEXIBLE FLANGED	STD STL STOR TB TD TEMP T/FTG	STEEL STORAGE THRUST BLOCK TRENCH DRAIN TEMPERATURE TOP OF FOOTING
F FCO FD FDC FHC FIN FLR FDC	FIRE FLOOR CLEANOUT FLOOR DRAIN FIRE DEPARTMENT CONNECTION FIRE HOSE CONNECTION FINISH OR FINISHED FLOOR FLEXIBLE	STD STL STOR TB TD TEMP T/FTG THRD T.O.P.	STEEL STORAGE THRUST BLOCK TRENCH DRAIN TEMPERATURE TOP OF FOOTING THREADED TOP OF PIPE
F FCO FD FDC FHC FIN FLR FDC FLGD FO FSE FS	FIRE FLOOR CLEANOUT FLOOR DRAIN FIRE DEPARTMENT CONNECTION FIRE HOSE CONNECTION FINISH OR FINISHED FLOOR FLEXIBLE FLANGED FUEL OIL FLOOR SLAB ELEVATION FLOW SWITCH	STD STL STOR TB TD TEMP T/FTG THRD T.O.P. T&P TYP	STEEL STORAGE THRUST BLOCK TRENCH DRAIN TEMPERATURE TOP OF FOOTING THREADED TOP OF PIPE TEMPERATURE & PRESSURE TYPICAL
F FCO FD FDC FHC FIN FLR FDC FLGD FO FSE FS FT	FIRE FLOOR CLEANOUT FLOOR DRAIN FIRE DEPARTMENT CONNECTION FIRE HOSE CONNECTION FINISH OR FINISHED FLOOR FLEXIBLE FLANGED FUEL OIL FLOOR SLAB ELEVATION FLOW SWITCH FOOT OR FEET	STD STL STOR TB TD TEMP T/FTG THRD T.O.P. T&P TYP	STEEL STORAGE THRUST BLOCK TRENCH DRAIN TEMPERATURE TOP OF FOOTING THREADED TOP OF PIPE TEMPERATURE & PRESSURE TYPICAL UNDER FLOOR
F FCO FD FDC FHC FIN FLR FDC FLGD FO FSE FS FT FTG	FIRE FLOOR CLEANOUT FLOOR DRAIN FIRE DEPARTMENT CONNECTION FIRE HOSE CONNECTION FINISH OR FINISHED FLOOR FLEXIBLE FLANGED FUEL OIL FLOOR SLAB ELEVATION FLOW SWITCH FOOT OR FEET FOOTING	STD STL STOR TB TD TEMP T/FTG THRD T.O.P. T&P TYP U/F U/G	STEEL STORAGE THRUST BLOCK TRENCH DRAIN TEMPERATURE TOP OF FOOTING THREADED TOP OF PIPE TEMPERATURE & PRESSURE TYPICAL UNDER FLOOR UNDERGROUND
F FCO FD FDC FHC FIN FLR FDC FLGD FO FSE FS FT	FIRE FLOOR CLEANOUT FLOOR DRAIN FIRE DEPARTMENT CONNECTION FIRE HOSE CONNECTION FINISH OR FINISHED FLOOR FLEXIBLE FLANGED FUEL OIL FLOOR SLAB ELEVATION FLOW SWITCH FOOT OR FEET	STD STL STOR TB TD TEMP T/FTG THRD T.O.P. T&P TYP	STEEL STORAGE THRUST BLOCK TRENCH DRAIN TEMPERATURE TOP OF FOOTING THREADED TOP OF PIPE TEMPERATURE & PRESSURE TYPICAL UNDER FLOOR
F FCO FD FDC FHC FIN FLR FDC FLGD FO FSE FS FT FTG	FIRE FLOOR CLEANOUT FLOOR DRAIN FIRE DEPARTMENT CONNECTION FIRE HOSE CONNECTION FINISH OR FINISHED FLOOR FLEXIBLE FLANGED FUEL OIL FLOOR SLAB ELEVATION FLOW SWITCH FOOT OR FEET FOOTING	STD STL STOR TB TD TEMP T/FTG THRD T.O.P. T&P TYP U/F U/G UL	STEEL STORAGE THRUST BLOCK TRENCH DRAIN TEMPERATURE TOP OF FOOTING THREADED TOP OF PIPE TEMPERATURE & PRESSURE TYPICAL UNDER FLOOR UNDERGROUND UNDERWRITER'S LABORATORIES
F FCO FD FDC FHC FIN FLR FDC FLGD FO FSE FS FT FTG FURN G GA	FIRE FLOOR CLEANOUT FLOOR DRAIN FIRE DEPARTMENT CONNECTION FIRE HOSE CONNECTION FINISH OR FINISHED FLOOR FLEXIBLE FLANGED FUEL OIL FLOOR SLAB ELEVATION FLOW SWITCH FOOT OR FEET FOOTING FURNISH GAS GAUGE	STD STL STOR TB TD TEMP T/FTG THRD T.O.P. T&P TYP U/F U/G UL UND UR	STEEL STORAGE THRUST BLOCK TRENCH DRAIN TEMPERATURE TOP OF FOOTING THREADED TOP OF PIPE TEMPERATURE & PRESSURE TYPICAL UNDER FLOOR UNDERGROUND UNDERWRITER'S LABORATORIES UNLESS NOTED OTHERWISE URINAL
F FCO FD FDC FHC FIN FLR FDC FLGD FO FSE FS FT FTG FURN G GA GAL	FIRE FLOOR CLEANOUT FLOOR DRAIN FIRE DEPARTMENT CONNECTION FIRE HOSE CONNECTION FINISH OR FINISHED FLOOR FLEXIBLE FLANGED FUEL OIL FLOOR SLAB ELEVATION FLOW SWITCH FOOT OR FEET FOOTING FURNISH GAS GAUGE GALLON	STD STL STOR TB TD TEMP T/FTG THRD T.O.P. T&P TYP U/F U/G UL UND UR	STEEL STORAGE THRUST BLOCK TRENCH DRAIN TEMPERATURE TOP OF FOOTING THREADED TOP OF PIPE TEMPERATURE & PRESSURE TYPICAL UNDER FLOOR UNDERGROUND UNDERWRITER'S LABORATORIES UNLESS NOTED OTHERWISE URINAL
F FCO FD FDC FHC FIN FLR FDC FLGD FO FSE FS FT FTG FURN G GA	FIRE FLOOR CLEANOUT FLOOR DRAIN FIRE DEPARTMENT CONNECTION FIRE HOSE CONNECTION FINISH OR FINISHED FLOOR FLEXIBLE FLANGED FUEL CIL FLOOR SLAB ELEVATION FLOW SWITCH FOOT OR FEET FOOTING FURNISH GAS GAUGE GALLON GRADE CLEANOUT	STD STL STOR TB TD TEMP T/FTG THRD T.O.P. T&P TYP U/F U/G UL UND UR	STEEL STORAGE THRUST BLOCK TRENCH DRAIN TEMPERATURE TOP OF FOOTING THREADED TOP OF PIPE TEMPERATURE & PRESSURE TYPICAL UNDER FLOOR UNDERGROUND UNDERWRITER'S LABORATORIES UNLESS NOTED OTHERWISE URINAL
F FCO FD FDC FHC FIN FLR FDC FLGD FO FSE FS FT FTG FURN G GA GAL GCO	FIRE FLOOR CLEANOUT FLOOR DRAIN FIRE DEPARTMENT CONNECTION FIRE HOSE CONNECTION FINISH OR FINISHED FLOOR FLEXIBLE FLANGED FUEL OIL FLOOR SLAB ELEVATION FLOW SWITCH FOOT OR FEET FOOTING FURNISH GAS GAUGE GALLON	STD STL STOR TB TD TEMP T/FTG THRD T.O.P. T&P TYP U/F U/G UL UND UR V V VAC VOL	STEEL STORAGE THRUST BLOCK TRENCH DRAIN TEMPERATURE TOP OF FOOTING THREADED TOP OF PIPE TEMPERATURE & PRESSURE TYPICAL UNDER FLOOR UNDERGROUND UNDERWRITER'S LABORATORIES UNLESS NOTED OTHERWISE URINAL VENT VOLT
F FCO FD FDC FHC FIN FLR FDC FLGD FO FSE FS FT FTG FURN G GA GAL GCO GPH GPM GPR	FIRE FLOOR CLEANOUT FLOOR DRAIN FIRE DEPARTMENT CONNECTION FIRE HOSE CONNECTION FINISH OR FINISHED FLOOR FLEXIBLE FLANGED FUEL OIL FLOOR SLAB ELEVATION FLOW SWITCH FOOT OR FEET FOOTING FURNISH GAS GAUGE GALLON GRADE CLEANOUT GALLONS PER HOUR GAS PRESSURE REGULATOR	STD STL STOR TB TD TEMP T/FTG THRD T.O.P. T&P TYP U/F U/G UL UND UR V V VAC	STEEL STORAGE THRUST BLOCK TRENCH DRAIN TEMPERATURE TOP OF FOOTING THREADED TOP OF PIPE TEMPERATURE & PRESSURE TYPICAL UNDER FLOOR UNDERGROUND UNDERWRITER'S LABORATORIES UNLESS NOTED OTHERWISE URINAL VENT VOLT VACUUM
F FCO FD FDC FHC FIN FLR FDC FLGD FO FSE FS FT FTG FURN G GA GAL GCO GPH GPM GPR GWH	FIRE FLOOR CLEANOUT FLOOR DRAIN FIRE DEPARTMENT CONNECTION FIRE HOSE CONNECTION FINISH OR FINISHED FLOOR FLEXIBLE FLANGED FUEL OIL FLOOR SLAB ELEVATION FLOW SWITCH FOOT OR FEET FOOTING FURNISH GAS GAUGE GALLON GRADE CLEANOUT GALLONS PER HOUR GAS PRESSURE REGULATOR GAS WATER HEATER	STD STL STOR TB TD TEMP T/FTG THRD T.O.P. T&P TYP U/F U/G UL UND UR V V VAC VOL VTR	STEEL STORAGE THRUST BLOCK TRENCH DRAIN TEMPERATURE TOP OF FOOTING THREADED TOP OF PIPE TEMPERATURE & PRESSURE TYPICAL UNDER FLOOR UNDERGROUND UNDERWRITER'S LABORATORIES UNLESS NOTED OTHERWISE URINAL VENT VOLT VACUUM VOLUME VENT THRU ROOF
F FCO FD FDC FHC FIN FLR FDC FLGD FO FSE FS FT FTG FURN G GA GAL GCO GPH GPM GPR	FIRE FLOOR CLEANOUT FLOOR DRAIN FIRE DEPARTMENT CONNECTION FIRE HOSE CONNECTION FINISH OR FINISHED FLOOR FLEXIBLE FLANGED FUEL OIL FLOOR SLAB ELEVATION FLOW SWITCH FOOT OR FEET FOOTING FURNISH GAS GAUGE GALLON GRADE CLEANOUT GALLONS PER HOUR GAS PRESSURE REGULATOR	STD STL STOR TB TD TEMP T/FTG THRD T.O.P. T&P TYP U/F U/G UL UND UR V V VAC VOL VTR	STEEL STORAGE THRUST BLOCK TRENCH DRAIN TEMPERATURE TOP OF FOOTING THREADED TOP OF PIPE TEMPERATURE & PRESSURE TYPICAL UNDER FLOOR UNDERGROUND UNDERWRITER'S LABORATORIES UNLESS NOTED OTHERWISE URINAL VENT VOLT VACUUM VOLUME VENT THRU ROOF
F FCO FD FDC FHC FIN FLR FDC FLGD FO FSE FS FT FTG FURN G GA GAL GCO GPH GPM GPR GWH	FIRE FLOOR CLEANOUT FLOOR DRAIN FIRE DEPARTMENT CONNECTION FIRE HOSE CONNECTION FINISH OR FINISHED FLOOR FLEXIBLE FLANGED FUEL OIL FLOOR SLAB ELEVATION FLOW SWITCH FOOT OR FEET FOOTING FURNISH GAS GAUGE GALLON GRADE CLEANOUT GALLONS PER HOUR GAS PRESSURE REGULATOR GAS WATER HEATER	STD STL STOR TB TD TEMP T/FTG THRD T.O.P. T&P TYP U/F U/G UL UND UR V V VAC VOL VTR	STEEL STORAGE THRUST BLOCK TRENCH DRAIN TEMPERATURE TOP OF FOOTING THREADED TOP OF PIPE TEMPERATURE & PRESSURE TYPICAL UNDER FLOOR UNDERGROUND UNDERWRITER'S LABORATORIES UNLESS NOTED OTHERWISE URINAL VENT VOLT VACUUM VOLUME VENT THRU ROOF
F FCO FD FDC FHC FIN FLR FDC FLGD FO FSE FS FT FTG FURN G GA GAL GCO GPH GPM GPR GWH GV	FIRE FLOOR CLEANOUT FLOOR DRAIN FIRE DEPARTMENT CONNECTION FIRE HOSE CONNECTION FINISH OR FINISHED FLOOR FLEXIBLE FLANGED FUEL OIL FLOOR SLAB ELEVATION FLOW SWITCH FOOT OR FEET FOOTING FURNISH GAS GAUGE GALLON GRADE CLEANOUT GALLONS PER HOUR GAS PRESSURE REGULATOR GAS WATER HEATER GATE VALVE	STD STL STOR TB TD TEMP T/FTG THRD T.O.P. T&P TYP U/F U/G UL UND UR V V VAC VOL VTR	STEEL STORAGE THRUST BLOCK TRENCH DRAIN TEMPERATURE TOP OF FOOTING THREADED TOP OF PIPE TEMPERATURE & PRESSURE TYPICAL UNDER FLOOR UNDERGROUND UNDERWRITER'S LABORATORIES UNLESS NOTED OTHERWISE URINAL VENT VOLT VACUUM VOLUME VENT THRU ROOF
F FCO FD FDC FHC FIN FLR FDC FLGD FO FSE FS FT FTG FURN G GA GAL GCO GPH GPM GPR GWH GV HB H/C HD	FIRE FLOOR CLEANOUT FLOOR DRAIN FIRE DEPARTMENT CONNECTION FIRE HOSE CONNECTION FINISH OR FINISHED FLOOR FLEXIBLE FLANGED FUEL OIL FLOOR SLAB ELEVATION FLOW SWITCH FOOT OR FEET FOOTING FURNISH GAS GAUGE GALLON GRADE CLEANOUT GALLONS PER HOUR GALLONS PER MINUTE GAS PRESSURE REGULATOR GAS WATER HEATER GATE VALVE HOSE BIBB HANDICAP HUB DRAIN	STD STL STOR TB TD TEMP T/FTG THRD T.O.P. T&P TYP U/F U/G UL UND UR V V VAC VOL VTR W W W/ WC W.C.	STEEL STORAGE THRUST BLOCK TRENCH DRAIN TEMPERATURE TOP OF FOOTING THREADED TOP OF PIPE TEMPERATURE & PRESSURE TYPICAL UNDER FLOOR UNDERGROUND UNDERWRITER'S LABORATORIES UNLESS NOTED OTHERWISE URINAL VENT VOLT VACUUM VOLUME VENT THRU ROOF WASTE WATT WITH WATER CLOSET WATER COLUMN
F FCO FD FDC FHC FIN FLR FDC FLGD FO FSE FS FT FTG FURN G GA GAL GCO GPH GPM GPR GWH GV HB H/C HD HOR	FIRE FLOOR CLEANOUT FLOOR DRAIN FIRE DEPARTMENT CONNECTION FIRE HOSE CONNECTION FINISH OR FINISHED FLOOR FLEXIBLE FLANGED FUEL OIL FLOOR SLAB ELEVATION FLOW SWITCH FOOT OR FEET FOOTING FURNISH GAS GAUGE GALLON GRADE CLEANOUT GALLONS PER HOUR GALLONS PER MINUTE GAS PRESSURE REGULATOR GAS WATER HEATER GATE VALVE HOSE BIBB HANDICAP HUB DRAIN HORIZONTAL	STD STL STOR TB TD TEMP T/FTG THRD T.O.P. T&P TYP U/F U/G UL UND UR V V VAC VOL VTR W W W/ WC W.C. WCO	STEEL STORAGE THRUST BLOCK TRENCH DRAIN TEMPERATURE TOP OF FOOTING THREADED TOP OF PIPE TEMPERATURE & PRESSURE TYPICAL UNDER FLOOR UNDERGROUND UNDERWRITER'S LABORATORIES UNLESS NOTED OTHERWISE URINAL VENT VOLT VACUUM VOLUME VENT THRU ROOF WASTE WATT WITH WATER CLOSET WATER COLUMN WALL CLEANOUT
F FCO FD FDC FHC FIN FLR FDC FLGD FO FSE FS FT FTG FURN G GA GAL GCO GPH GPM GPR GWH GV HB H/C HD HOR HP	FIRE FLOOR CLEANOUT FLOOR DRAIN FIRE DEPARTMENT CONNECTION FIRE HOSE CONNECTION FINISH OR FINISHED FLOOR FLEXIBLE FLANGED FUEL OIL FLOOR SLAB ELEVATION FLOW SWITCH FOOT OR FEET FOOTING FURNISH GAS GAUGE GALLON GRADE CLEANOUT GALLONS PER HOUR GALLONS PER MINUTE GAS PRESSURE REGULATOR GAS WATER HEATER GATE VALVE HOSE BIBB HANDICAP HUB DRAIN HORIZONTAL HOURSEPOWER	STD STL STOR TB TD TEMP T/FTG THRD T.O.P. T&P TYP U/F U/G UL UND UR V V VAC VOL VTR W W W/ WC W.C. WCO WG	STEEL STORAGE THRUST BLOCK TRENCH DRAIN TEMPERATURE TOP OF FOOTING THREADED TOP OF PIPE TEMPERATURE & PRESSURE TYPICAL UNDER FLOOR UNDERGROUND UNDERWRITER'S LABORATORIES UNLESS NOTED OTHERWISE URINAL VENT VOLT VACUUM VOLUME VENT THRU ROOF WASTE WATT WITH WATER CLOSET WATER COLUMN WALL CLEANOUT WATER GAUGE
F FCO FD FDC FHC FIN FLR FDC FLGD FO FSE FS FT FTG FURN G GA GAL GCO GPH GPM GPR GWH GV HB H/C HD HOR HP HS	FIRE FLOOR CLEANOUT FLOOR DRAIN FIRE DEPARTMENT CONNECTION FIRE HOSE CONNECTION FINISH OR FINISHED FLOOR FLEXIBLE FLANGED FUEL OIL FLOOR SLAB ELEVATION FLOW SWITCH FOOT OR FEET FOOTING FURNISH GAS GAUGE GALLON GRADE CLEANOUT GALLONS PER HOUR GALLONS PER MINUTE GAS PRESSURE REGULATOR GAS WATER HEATER GATE VALVE HOSE BIBB HANDICAP HUB DRAIN HORIZONTAL HOURSEPOWER HAND SINK	STD STL STOR TB TD TEMP T/FTG THRD T.O.P. T&P TYP U/F U/G UL UND UR V V VAC VOL VTR W W W/ WC W.C. WCO	STEEL STORAGE THRUST BLOCK TRENCH DRAIN TEMPERATURE TOP OF FOOTING THREADED TOP OF PIPE TEMPERATURE & PRESSURE TYPICAL UNDER FLOOR UNDERGROUND UNDERWRITER'S LABORATORIES UNLESS NOTED OTHERWISE URINAL VENT VOLT VACUUM VOLUME VENT THRU ROOF WASTE WATT WITH WATER CLOSET WATER GAUGE WALL HYDRANT
F FCO FD FDC FHC FIN FLR FDC FLGD FO FSE FS FT FTG FURN G GA GAL GCO GPH GPM GPR GWH GV HB H/C HD HOR HP	FIRE FLOOR CLEANOUT FLOOR DRAIN FIRE DEPARTMENT CONNECTION FIRE HOSE CONNECTION FINISH OR FINISHED FLOOR FLEXIBLE FLANGED FUEL OIL FLOOR SLAB ELEVATION FLOW SWITCH FOOT OR FEET FOOTING FURNISH GAS GAUGE GALLON GRADE CLEANOUT GALLONS PER HOUR GALLONS PER MINUTE GAS PRESSURE REGULATOR GAS WATER HEATER GATE VALVE HOSE BIBB HANDICAP HUB DRAIN HORIZONTAL HOURSEPOWER	STD STL STOR TB TD TEMP T/FTG THRD T.O.P. T&P TYP U/F U/G UL UND UR V V VAC VOL VTR W W W W/ WC W.C. WCO WG WH	STEEL STORAGE THRUST BLOCK TRENCH DRAIN TEMPERATURE TOP OF FOOTING THREADED TOP OF PIPE TEMPERATURE & PRESSURE TYPICAL UNDER FLOOR UNDERGROUND UNDERWRITER'S LABORATORIES UNLESS NOTED OTHERWISE URINAL VENT VOLT VACUUM VOLUME VENT THRU ROOF WASTE WATT WITH WATER CLOSET WATER GAUGE
F FCO FD FDC FHC FIN FLR FDC FLGD FO FSE FS FT FTG FURN G GA GAL GCO GPH GPM GPR GWH GV HB H/C HD HOR HP HS HW HWR	FIRE FLOOR CLEANOUT FLOOR DRAIN FIRE DEPARTMENT CONNECTION FIRE HOSE CONNECTION FINISH OR FINISHED FLOOR FLEXIBLE FLANGED FUEL OIL FLOOR SLAB ELEVATION FLOW SWITCH FOOT OR FEET FOOTING FURNISH GAS GAUGE GALLON GRADE CLEANOUT GALLONS PER HOUR GALLONS PER MINUTE GAS PRESSURE REGULATOR GAS WATER HEATER GATE VALVE HOSE BIBB HANDICAP HUB DRAIN HORIZONTAL HOURSEPOWER HAND SINK HOT WATER RETURN	STD STL STOR TB TD TEMP T/FTG THRD T.O.P. T&P TYP U/F U/G UL UND UR V V VAC VOL VTR W W W/ WC W.C. WCO WG WH WGT	STEEL STORAGE THRUST BLOCK TRENCH DRAIN TEMPERATURE TOP OF FOOTING THREADED TOP OF PIPE TEMPERATURE & PRESSURE TYPICAL UNDER FLOOR UNDERWRITER'S LABORATORIES UNLESS NOTED OTHERWISE URINAL VENT VOLT VACUUM VOLUME VENT THRU ROOF WASTE WATT WITH WATER CLOSET WATER COLUMN WALL CLEANOUT WATER GAUGE WALL HYDRANT WEIGHT
F FCO FD FDC FHC FIN FLR FDC FLGD FO FSE FS FT FTG FURN G GA GAL GCO GPH GPM GPR GWH GV HB H/C HD HOR HP HS HW HWR	FIRE FLOOR CLEANOUT FLOOR DRAIN FIRE DEPARTMENT CONNECTION FIRE HOSE CONNECTION FINISH OR FINISHED FLOOR FLEXIBLE FLANGED FUEL CIL FLOOR SLAB ELEVATION FLOW SWITCH FOOT OR FEET FOOTING FURNISH GAS GAUGE GALLON GRADE CLEANOUT GALLONS PER HOUR GALLONS PER MINUTE GAS PRESSURE REGULATOR GAS WATER HEATER GATE VALVE HOSE BIBB HANDICAP HUB DRAIN HORIZONTAL HOURSEPOWER HAND SINK HOT WATER RETURN INSIDE DIAMETER	STD STL STOR TB TD TEMP T/FTG THRD T.O.P. T&P TYP U/F U/G UL UND UR V V VAC VOL VTR W W W/ WC W.C. WCO WG WH WGT WM W/OUT	STEEL STORAGE THRUST BLOCK TRENCH DRAIN TEMPERATURE TOP OF FOOTING THREADED TOP OF PIPE TEMPERATURE & PRESSURE TYPICAL UNDER FLOOR UNDERGROUND UNDERWRITER'S LABORATORIES UNLESS NOTED OTHERWISE URINAL VENT VOLT VACUUM VOLUME VENT THRU ROOF WASTE WATT WITH WATER CLOSET WATER COLUMN WALL CLEANOUT WATER GAUGE WALL HYDRANT WEIGHT WATER METER WITHOUT
F FCO FD FDC FHC FIN FLR FDC FLGD FO FSE FS FT FTG FURN G GA GAL GCO GPH GPM GPR GWH GV HB H/C HD HOR HP HS HW HWR	FIRE FLOOR CLEANOUT FLOOR DRAIN FIRE DEPARTMENT CONNECTION FIRE HOSE CONNECTION FINISH OR FINISHED FLOOR FLEXIBLE FLANGED FUEL OIL FLOOR SLAB ELEVATION FLOW SWITCH FOOT OR FEET FOOTING FURNISH GAS GAUGE GALLON GRADE CLEANOUT GALLONS PER HOUR GALLONS PER MINUTE GAS PRESSURE REGULATOR GAS WATER HEATER GATE VALVE HOSE BIBB HANDICAP HUB DRAIN HORIZONTAL HOURSEPOWER HAND SINK HOT WATER RETURN	STD STL STOR TB TD TEMP T/FTG THRD T.O.P. T&P TYP U/F U/G UL UND UR V V VAC VOL VTR W W W W W W W W W W W W W W W W W W	STEEL STORAGE THRUST BLOCK TRENCH DRAIN TEMPERATURE TOP OF FOOTING THREADED TOP OF PIPE TEMPERATURE & PRESSURE TYPICAL UNDER FLOOR UNDERGROUND UNDERWRITER'S LABORATORIES UNLESS NOTED OTHERWISE URINAL VENT VOLT VACUUM VOLUME VENT THRU ROOF WASTE WATT WITH WATER CLOSET WATER COLUMN WALL CLEANOUT WATER GAUGE WALL HYDRANT WEIGHT WATER METER

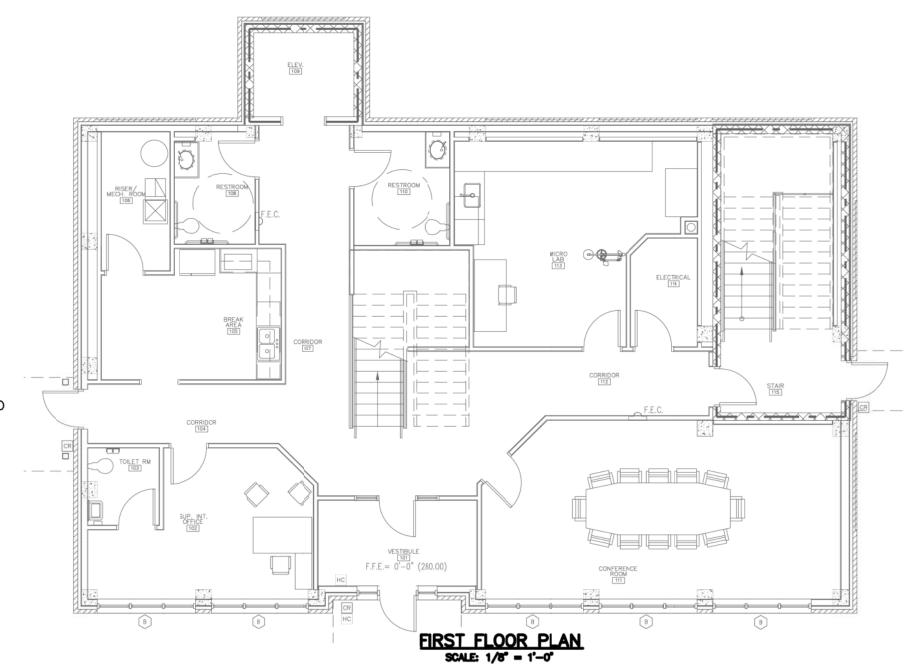
ABBREVIATION	SYMBOL	DECRIPTION
F -	F	- FIRE SERVICE MAIN
-	SP	- WET PIPE SPRINKLER MAIN
	DSP	DRY PIPE SPRINKLER WAIN
DN -		PIPE TURNING DOWN
UP -		PIPE TURNING UP
-	0	- PIPE TURNING DOWN W/TEE
BFV -	<u>.</u>	— BUTTERFLY VALVE
BV -	1	— BALL VALVE
FDC	<u> </u>	FIRE DEPARTMENT CONNECTION
FHC		FIRE HOSE CABINET
FH	₩	FIRE HYDRANT
	_	WATER MOTOR ALARM
	0	UPRIGHT SPRINKLER
	•	PENDANT SPRINKLER
	◁	SIDEWALL SPRINKLER
-	<u> </u>	OS&Y GATE VALVE
BFP	M T T M	BACKFLOW PREVENTER (SPECIFY TYPE)
	0	PRESSURE GAUGE
	1	— REDUCER

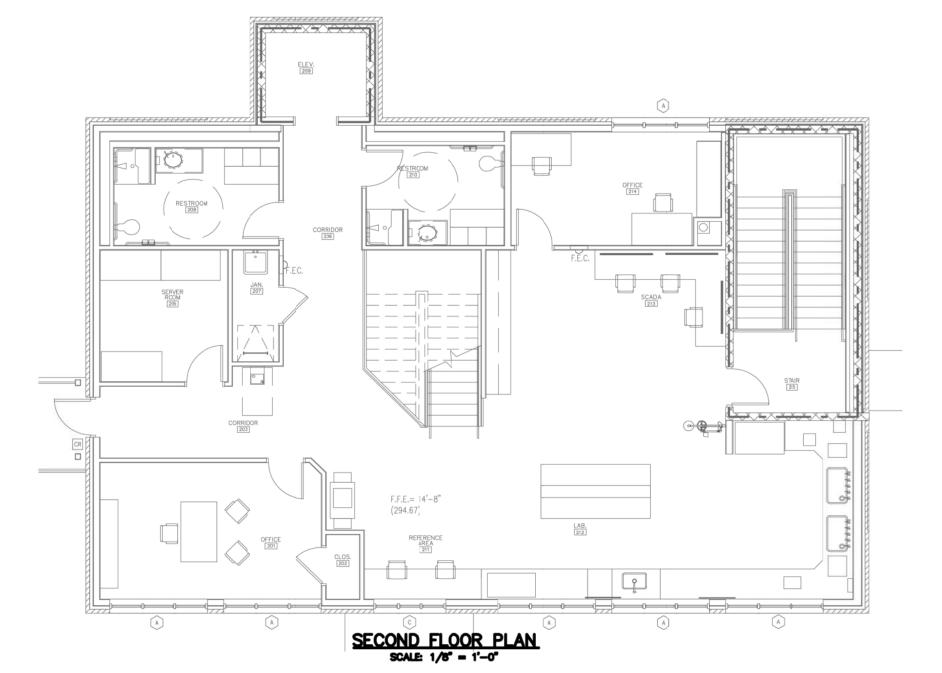
FIRE PROTECTION GENERAL NOTES

- 1. ALL SYMBOLS AND ABBREVIATIONS LISTED ON SYMBOLS AND ABBREVIATIONS SHEET ARE NOT NECESSARILY USED ON THE DRAWINGS FOR THIS PROJECT. SCOPE OF WORK IS IDENTIFIED BY DRAWINGS AND SPECIFICATIONS.
- 2. ALL POWER WIRING (120 VOLT OR HIGHER) SHALL BE PERFORMED BY DIVISION 16 CONTRACTOR. PIPE MOUNTED DEVICES SHALL BE MOUNTED BY THIS CONTRACTOR, UNLESS NOTED OTHERWISE ON DRAWINGS OR IN SPECIFICATIONS.
- 3. THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO AVOID FIELD INTERFERENCES.
- 4. PIPE PENETRATIONS THROUGH FIRE RATED WALLS SHALL HAVE EQUIVALENTLY RATED SLEEVES AND SHALL BE CAULKED WITH UL LISTED SILICONE FOAM.
- 5. ALL SPRINKLER SYSTEM DEVICES SHALL BE UL LISTED AND FM APPROVED.
- 6. THE CONTRACTOR SHALL PROVIDE DIMENSIONED SHOP DRAWINGS AND HYDRAULIC CALCULATIONS PER DIVISION 15 SPECIFICATIONS. COORDINATE ALL COMPONENTS EXISTING IN THE FIELD AND ALL TRADES OF THE CONTRACT DOCUMENTS. SPRINKLER SYSTEM SHALL COMPLY WITH ALL FACTORY MUTUAL REQUIREMENTS AND SHOP DRAWINGS SHALL BE SUBMITTED TO FACTORY MUTUAL FOR APPROVAL.
- 7. PROVIDE SPRINKLERS BELOW SINGLE OBSTRUCTIONS WIDER THAN 48" AND ANY COMBINATION OF OBSTRUCTIONS HAVING A TOTAL WIDTH OF 48" OR MORE AND HAVING 8" OR LESS SPACE BETWEEN TWO OBSTRUCTIONS.
- 8. PROVIDE AND INSTALL TAMPER SWITCHES ON ALL VALVES CONTROLLING SPRINKLER SYSTEMS.

FLOW TEST RESULTS:

90 PSI AT 2.000 GPM FLOW RATE





FIRE PROTECTION SPECIFICATIONS

SECTION 13501 FIRE PROTECTION SPRINKLERS

PART 1 - GENERAL 1.1 SCOPE OF WORK:

A. General Requirements: For general provisions governing the Work of this Section, refer to Mechanical General Requirements. THS IS A PERFORMANCE SPICIFICATION. Contractor to incorporate Engineering, Testing Design and Installation of a fully approved fire sprinkler system, completely coordinated with the specific site conditions, building conditions, the work of other trades and in strict compliance with the Local Authority Having Jurisdiction. The Contractor shall provide and install the automatic frontection sprinkler system, complete with head and piping layout, fire protection supply water flow testing, piping system sizing by computer driven hydroutic calculations, piping, sprinklers, control valves, dry pipe and wet pipe alarm check valves, flow switches, tamper switches other more devices, and other accessories required to make the systems reliable and satisfactory in operation. Special fire sprinkler requirements are to be incorporated for full coverage for Afriums or other "open" areas and/or areas with high ceilings or large amounts of glass. Provide dry pipe systems as required for cross subject to freezing, short actics, Mechanical Rooms, and exterior rooms without heat. For clarm device wiring connections to darm systems, refer to Division 16 Electrical.

*B. *Indicales requirements for CONTRACTOR to verify prior to submission of bid.

1.2 CODES AND STANDARDS

- A. Make installation to conform to: 1. NFPA 13 Standard for the Installation of Automatic Fire Protection Sprinkler Systems.
- The Contractor shall verify and conform to all State and local codes. Only currently State licensed Fire Sprinkler Design and Installation Contractors who have been regularly engaged in the full time design, permitting and installation of commercial and industrial Fire Sprinkler systems ol similar apacity, for a minimum period of five years shall be considered for this project. Submit proposed
- Sprinkler Systems must comply with seismic restraints per Local AHJ and per IBC 16213.10.1 as well as NFPA 13 installation guidelines.
- A. The Work of this portion of the Project includes the wet pipe automatic fire sprinklers for occupied and unoccupied spaces, dry pipe for attic and areas subject to freezing.
- B. The Work of this Section includes coordination of the fire sprinkler sytems with ceiling mounted equipment and lights, structural elements and items included in the architectural plans and reflected ceiling plans, obtaining water supply date from water utility company's service piping, performing computerized hydraulic calculations of pipe sizes, preparing shop drawings of system, obtaining review and approval if calculations and drawings from the state and local Authority Having Jurisdiction (AHJ), material and equipment submittals and review and installation of the sprinkler systems in complete accordance with the applicable codes and ordinances.
- C. The Work of this Section is based on an available street water pressure adequate to provide the required water low to the sprinkler system. Coordinate with water utility serving building to perform vater supply testing to verify that the volume of water that as the discharged from the distribution system at an energy testing to verify that the volume of water that as the discharged from the distribution system at on near the expected point of connection to the street main will be at a residual pressure adequate to obtain designed water flow to the system. Document the test results with the Engineer prior to commencing with the hydraulic design.
- D. *Perform fire flow testing as described in NFPA 291, and with NFPA 13, Article 7-2.1 and appendix
- E. *Perform hydraulic calculations of pipe sizing on the basis of a water flow density for the assigned occupancy, such as 0.1 gallons per minute per square foot over the most hydraulically remole 1,500 square feet area of sprinkler operation for Light Hzzard occupancies, in accordance with NFP 13, Chapter 5 Design Approaches and Chapter 6 Plans and Calculations. The area of application for dry pipe systems serving altics and other areas subject to freezing shall be adjusted upward by a factor of 30%, without revising density. Hydraulically most remote areas shall be determined by the computer, shifting the design area grid by grid. Hose stream demonds shall be added to the fire sprinkler hydruffics at the point of hose consection, or at the base of the fire riser, whichever is more stringent. ROOM DESIGN METHOUS SHALL NOT BE EMPLOYED.

1.4 SUBMITTALS

- A. Submit equipment, materials and product data for all fire sprinkler work.
- B. Prepare piping layout drawings to serve the approved sprinkler locations, complete with all heads, hangers, valves, hydraulic nodes, yard main piping, and all other pertinent details, drawn at a scale not less than 1/8"=1"-0". Alarm valve risers and hanger details shall be drawn at minimum 1/4"=1"-0".
- Perform hydraulic calculations based on the pipe byout drawings.
- D. Submit copies of sprinkler system layout, with piping drawings, and hydraulic calculations, to the AHJ for review and approval prior to submission to the Architect for review. Obtain approvals in accordance with this paragraph prior to proceeding with the work.
- E. Submit copies of drawings and calculations, after approval by AHJ, for Architect's review and in number of copies adequate for Architect's and Owners' records, including:
- Sprinkler layout, with approval stamp from AHJ.
- Fiping layout, with approval stamp from AHJ. Hydraulic calculations for sprinkler system, including pressure losses from point of connection at the fow test location, through the building, pipe sizing, and water supply curve, with approval stamp from AHJ.
- PART 2 PRODUCTS

2.1 All products under this Section of a manufacturer and model, which is UL listed AND FM approved

- 2.2 ALARM CHECK VALVE ASSEMBLY, WET PIPE A. Description, alarm check valve: Valve in ductile irwn body with flanged or grooved ends as nquired for location, Teffon-ecoted steel clapper, EPDM clapper ring, brass seat, stainless steel trim, and trim packags, openings in body tapped for pressure gasges, alarm devices, and main drain, Vikinj Model J-1.
- B. Description, retard chamber: Ductile iron body with tapped ends and accessories to suit alorn system used, Viking Model C-1.
- C. Description, alarm system: Either water motor alarm, with strainer, water operated motor, and alarm gong is decorative cover, or pressure alarm switch with circuit closer vent trim kit.

- 2.3 ALARM CHECK VALVE ASSEMBLY, DRY PIPE (AS REQUIRED)
- Description, clarm check valve: Latching differential type valve in ductile iron body with fanged inlet and growed outlet, coated steel clapper, EPDM clapper ring, brass ring seat, stainless steel trim, and trim pockage, openings in body tapped for air pressure, alarm switches, main drain, and valve room sprinklers, Vikin Model F-1
- B. Description, accelerator/anti-flood assembly: fuctile iron or cast bronze bodies with tapped ends and accessories, Viking Model E-1 Accelerator and Model B-1 Anti-flood Device.
- C. Description, air compressor and trim: Oil-less compressor direct connected to electric motor, body arranged for comping to main piping, with pressure control switch, pressure relief valve and volume restrictor; Viking Model E-1. Displacement and horsepower as required to restor the full system volume to operable pressure within 30 minutes.
- D. Description, air pressure maintenance device and preassembled trim package: Pressure maintenance device in cost brass body with stainless steel Irim and trim package including three-volve bypass; Viking Model D-2.
 Description, electric alarm system: Pressure alarm switch with circuit closer vent trim kit.
- E. Description, water motor alarm system: Outside water motor alarm gong in decorative cover, with straner, water operated motor, and drain piping.
- 2.4 AUTOMATIC SPRINKLERS
- A. Layout Basis: Viking models listed. B. Acceptable Manufacturers: Automatic Sprinkler, Central, Grinnell.
- C. Description, Pendent/Upright Sprinklers: Quick Response Exposed type with glass bulb, ordnary temperature rating, U.N.O., 1/2" orifice, chrome ploted sprinkler (rough brass for upright). Finished gypsum ceilings: conceded pendent sprinkler head with factory painted cover plate to match adjacent ceiling.

A. Caupling bodies: Cast from malleable or ducile iron, recessed for gasket.

Dry Pendant and Dry Sidewall sprinklers as required, refer to plans.

- B. Gaskets: Suitable for water service at temperature listed for system. C. Bots and nuts: Track type steel bolts, ASTM A183, oval necks coordinated with housing clamps, heavy
- D. Boted branch outlets utilizing a U-bolt arrangement and gasketed coupling are not acceptable. All piping brunches in feed mains shall be formed using a shop welded, UL listed, "Thread-0-Let' style forged steel welding outlet with threaded connection.

E. Acceptable manufacturers: Grinnell GruvLok, Victoulic.

- A. Acceptable manufacturers: B-Line Systems (RLS), Grinnell, Michigan Hanger (M-CO).
- B. Hangers for steel piping and tubing: UL lister and FM Approved adjustable "J" hangers, Manufacturers Stundardization Society SP-69, Model 5.

- A. Underground Service Pipe Pressure Class 150 Coated and Lined Ductile Iron Pipe with mechanical joint
- B. Aboveground Sprinkler Pipe ASTM A-53 and A-120, block steel, Schedule 10 for mains 2-1/2" and larger, Schedule 40 for 2" and smaller. C. Fitings, pressure class as specified:
- 1. Threaded, cost iron ASTM A126 Class B and ANSI B16.4, class 125 S.W.P.
- 2. Threaded, malleable iron ASTM A197 and ANSI B16.3, 150 psig S.W.P.
- B. Eliscripfielding-vindputteelelelelegeer slipcible type, budgudfilengedour speedy-stiffield 2.34bbed-MAGII B1692fir and assemB16.6Eingad to removable access cover, tapped outlets on inlet and outlet for gauge connections, Viling Swing Check Valve.

 4. Flanged, cost iron ASTM A126 Class II and ANSI B16.1, class 125 S.W.P.
- Description-ridget-and drain valves: Cost iron body, threaded ends, ball type valve with 3-position operating handle marked "Off-Test-Drain", noninal 1/2" test crifice, and integral sight gass.
 Thread compounds suited to service, temperature, and fluid.

2.8 PIPING UNIONS, STEEL

- A. General: Service class to match piping.
- B. Screwed joints: Forged steel, ground joints, non-corrosive seats. C. Flonged joints: Companion flonges. For water service, forged steel, ground joints, non-corrosive seats.

- A. Description, Valve Position Supervisory Switch: Two sets of SPDT, form C switches, trip nd to suit control voice style to which attached. B. Description, Waterflow Supervisory Switch: Two sets of SPDT, form C switches, adjustable pneumatic relard, 10 galons per minute minimum flow for actuation, u-bolt or threaded boss mounting type.
- A. Description: Outside screw and yoke gate valves: cast iron body 125 lb. SWP, 175 lb. nor shock cold water UL Listed, FM Approved bronze mounted, resilient wedge, flanged ends. Approved nanufacturers: Milwaukee F-2885, Stockhom G-623, Nibco.

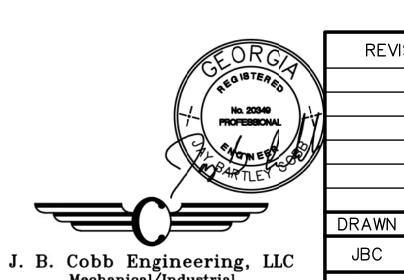
PART 3 - EXECUTION 3.1 INSTALLATION OF SPRINKLER SYSTEM

A. Coordinate piping layout with locations of ductwork located above suspended ceilings as shown on Mechanical drawings. Coordinate with work of Electrical to assure that supervisory switches are connected by alarm and detection system wiring to building alarm system.

3.2 SPRINKLER LOCATIONS

A. Sprinklers shall be installed aligned in the ceiling tiles, located at the quarter points of 2'x4' tiles, centered in 2'x2' tiles, to tolerances within 1". B. Pay special attention to file storage areas and/or areas where vertical and/or horizontal clearances must be maintained in order to facilitate adequate coverage. Add heads in asles if necessary.

- A. Test new piping systems in two stages, first with air pressure and second with hydrostatic pressure. B. Pressure and duration, steel systems pneumatic test: Prove system to be tight under pneumatic test
- C. Pressure and duration, hydrostatic test: Fill system with water and vert all air from system, then prove system to be tight under hydrostatic test pressure of 200 peig for 2 hours.
- D. Dry valve system compressor shall not operate to maintain system pressure at intervals of less than once in 48 hours. System shall not radiate or transmit objectionable roise (greater than 60 db @ 10 feet). Provide suitable vibration isolation pads or dampeners as required.



CITY OF MILLEDGEVILLE, GEORGIA **REVISIONS** LAMAR HAM WTP IMPROVEMENTS CONTROL BUILDING FIRE **PROTECTION**

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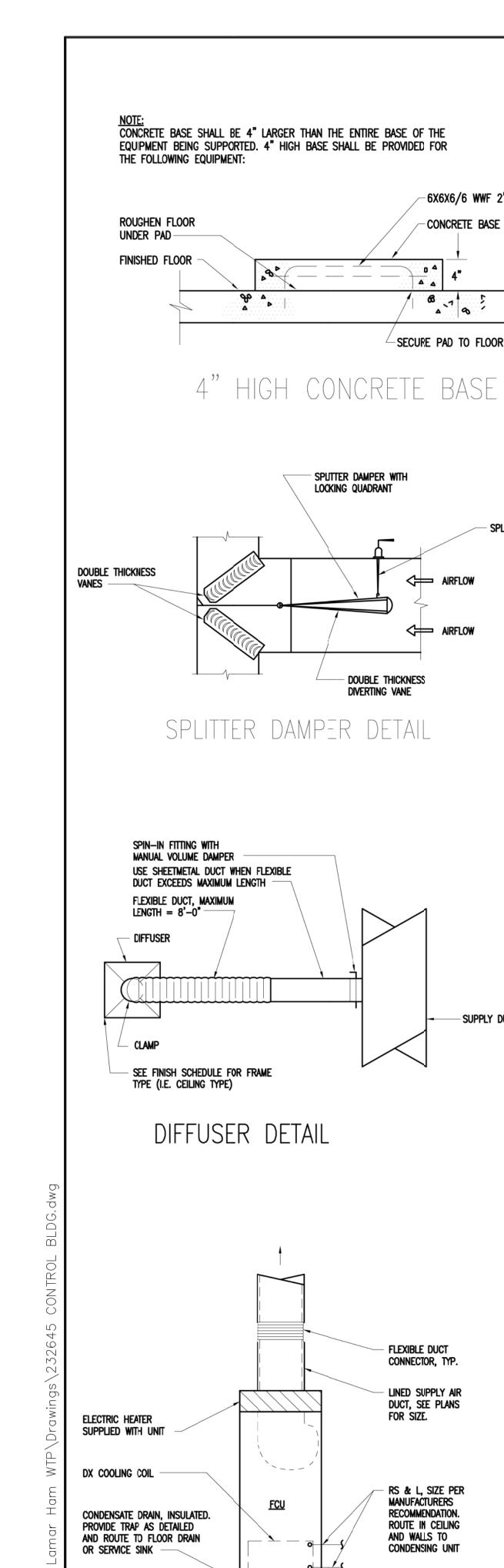
TURNIPSEED ATLANTA AUGUSTA **VENGINEERS** ST. SIMONS ISLAND

SCALE: AS SHOWN

CHECKE

JBC

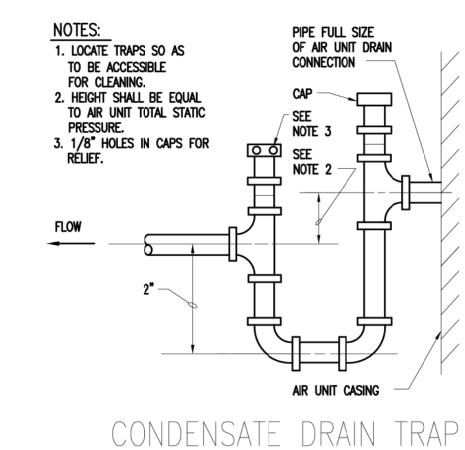
SHEET **76** OF 112



LINED RETURN AIR

DUCT, SEE PLANS

FOR SIZE -



-6X6X6/6 WWF 2" COVER

SPLITTER ROD

-Supply Duct

Flexible duct

CONNECTOR, TYP.

LINED SUPPLY AIR

DUCT, SEE PLANS FOR SIZE.

RS & L, SIZE PER

MANUFACTURERS

RECOMMENDATION.

ROUTE IN CEILING

CONDENSING UNIT

2" FILTERS, PROVIDE

ACCESS IN CASING OR

AND WALLS TO

DUCTWORK

VERTICAL FAN COIL UNIT

DX COOLING COIL

DUCTWORK -

2" FILTERS, PROVIDE ACCESS IN CASING OR

LINED RETURN AIR DUCT, SEE PLANS FOR SIZE

RS & L, SIZE PER

MANUFACTURERS

RECOMMENDATION.

ROUTE IN CEILING

CONDENSING UNIT

AND WALLS TO

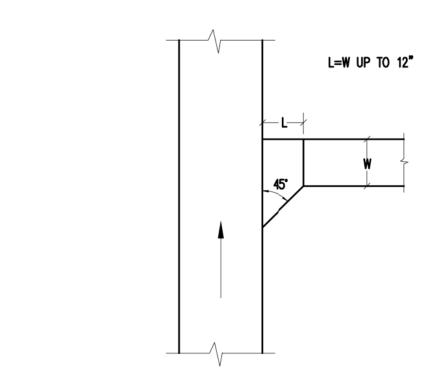
1/8" COPPER

-CONCRETE BASE

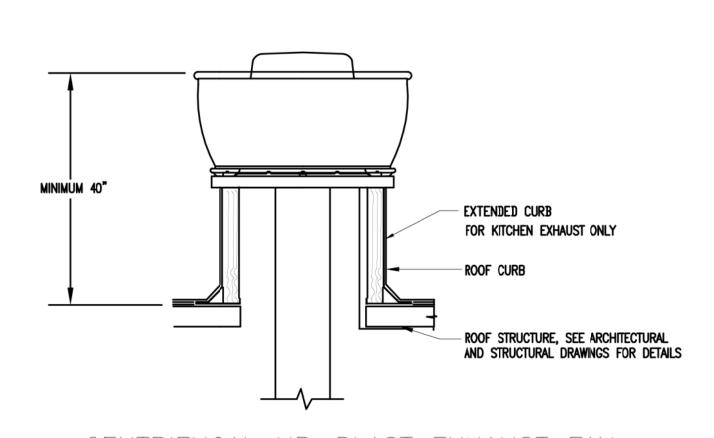
-SECURE PAD TO FLOOR

SPLITTER DAMPER WITH LOCKING QUADRANT

> DOUBLE THICKNESS DIVERTING VANE



LOW PRESSURE BRANCH DUCT TAKE-OFF



CENTRIFUGAL UP-BLAST EXHAUST FAN

SUSPEND UNIT FROM

STRUCTURE WITH ALL

THREAD ROD, 3/8"MIN.

FLEXIBLE DUCT

CONNECTOR, TYP. LINED SUPPLY AIR

DUCT, SEE PLANS

AUXILLARY DRAIN PAN,

26 GAUGE GALVANIZED

ACCESSABLE CEILING

OR PROVIDE ACCESS PANEL IN CEILING

SHEET NETAL

FOR SIZE.

Rubber in Shear

VIBRATION ISOLATOR,

TYPICAL OF 4

ELECTRIC HEATER

SUPPLIED WITH UNIT

- CONDENSATE DRAIN, INSULATED. PROVIDE TRAP AS DETAILED

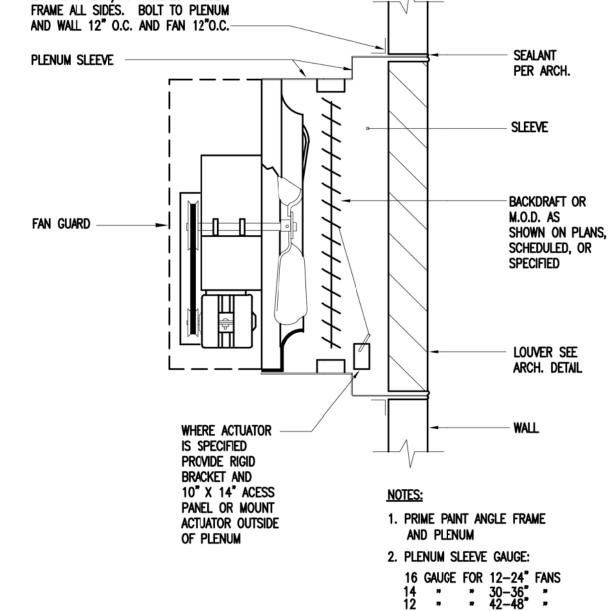
AND ROUTE TO FLOOR DRAIN

OR SERVICE SINK

CHRONE PLATE ESCUTCHEON PLATE

LOCATED ABOVE SINK OR LAVATORY

HORIZONTAL FAN COIL UNIT



ON

NOTES: 1. PRIME PAINT AND PLENUM 2. PLENUM SLE 16 GAUGE F 14 "
14 # NSTALLATI(

2" x 2" x 2-3/16" WELDED ANGLE

	HEAT PUMP SCHEDULE												
HPOU TAG	HPOU TAG BASIS OF DESIGN CAPACITY S.E.E.R VOLTS - PH REMARKS												
HPOU-1	TRANE 4TWA4060A4000A	5 TON	14	460/3									
HPOU-2	TRANE 4TWA4048A4000A	4 TON	14	460/3									
HPOU-3	TRANE 4TWA4048A4000A	4 TON	14	460/3									
HPOU-4	MITSUBISH MXZ-8C48NAHZ	4 TON	18.9	208/1									
HPOU-5	MITSUBISH MXZ-8C48NAHZ	4 TON	18.9	208/1									

	FAN COIL UNIT SCHEDULE													
HPIU TAG	BASIS OF DESIGN CAPACITY CFM O.A. E.S.P. TYPE VOLTS - PH AUX. EL. HT. REMARKS													
HPIU-1	TRANE GAM5B0C60M51SB	5 TON	2,000	400	0.50"	HP	208/1	15 KW 460/3						
HPIU-2	TRANE GAM5B0C48M41SB	4 TON	1,600	325	0.50"	HP	208/1	15 KW 460/3						
HPIU-3	TRANE GAM5B0C48M41SB	4 TON	1,600	325	0.50"	HP	208/1	15 KW 460/3						
HPIU-4A	MITSUBISHI PLA-A24BA6	2 TON	600	15	N/A	HP	208/1	N/A						
HPIU-4B	MITSUBISHI PLA-A24BA6	2 TON	600	15	N/A	HP	208/1	N/A						
HPIU-5A	MITSUBISHI PLA-A24BA6	2 TON	600	15	N/A	HP	208/1	N/A						
HPIU-5A	MITSUBISHI PLA-A24BA6	2 TON	600	15	N/A	HP	208/1	N/A						

	EXHAUST FAN SCHEDULE											
EF TAG	SERVICE	BASIS OF DESIGN	CFM	HP	S.P.	VOLTS - PH	REMARKS					
EF-1	CLEARWELL	GREENHECK SE1-16-136	2,600	1	0.375	460/3	1, 2, 3, 4, 7, MOTORIZED DAMPER					
EF-2	PIPE GALLERY	GREENHECK CUE-140-VG-3/4	2,500	3/4	0.375	460/3	1, 2, 3, 4, 7, MOTORIZED DAMPER					
EF-3	CHEMICAL ROOM	GREENHECK SQ-95-VG-1/4	400	1/4	0.50	120/1	2, 7, WALL SWITCH					
EF-4	RESTROOM	GREENHECK SP-AP0511W-1	80	15.4W	0.40	120/1	6, INTERLOCK WITH LIGHTS					
EF-5	RESTROOM/LOCKER	GREENHECK SP-AP0511W-1	110	21.5W	0.40	120/1	6, INTERLOCK WITH LIGHTS					
EF-6	FUME HOOD	GREENHECK VK-H-12-7	950	3/4	0.53	208/60/1	8					
EF-7	FUME HOOD	GREENHECK VK-H-12-7	950	3/4	0.53	208/60/1	8					

- EXHAUST FANS TO BE INTERNALLY AND EXTERNALLY COATED (INCLUDING WHEEL AND ALL SURFACES IN AIRSTREAM) SUITABLE FOR SEVERELY CORROSIVE ATMOSPHERES (CHLORINE,
- HYDROFLUOROSILICIC ACID, CAUSTIC, SODIUM HYPOCHLORITE AS WELL AS PHOSPHATE WHICH SHOULD NOT BE CORROSIVE). COATING TO BE FACTORY APPLIED POLYESTER COATING, GREENHECK HI—PRO POLYESTER OR APPROVED EQUAL. PROVIDE WITH WALL COLLAR, MOTORIZED BACKDRAFT DAMPER, MOTOR AND BELT GUARDS, 45° WEATERH HOOD, ALL COATED AS INDICATED ABOVE. COORDINATE SQUARE WALL OPENING SIZE WITH
- BLOCK MASON / GENERAL CONTRACTOR. FANS SHALL BE PROVIDED WITH CORROSION RESISTANT, NEWA 4X, WALL MOUNTED THERMOSTAT TO CONTROL FANS. THERMOSTAT SHALL BE 120V, SPDT IN NEWA 4X HOUSING, CHROMOLOX
- MODEL WCRT-100 OR EQUAL. THERMOSTAT SHALL ENERGIZE FANS UPON RISE IN TEMPERATURE ABOVE ADJUSTABLE SET POINT (80°F SET INITIALLY). FANS SHALL BE PROVIDED WITH A NEMA 4X WALL SWITCH LOCATED OUTSIDE OF THE ROOM, BESIDE THE DOOR OF THE RESPECTIVE SPACE. WALL SWITCH SHALL ENERGIZE THE FAN, BYPASSING THE THERNOSTAT OPERATION TO ENERGIZE FAN PRIOR TO ENTERING ROOM AND / OR PROVIDE CONTINUOUS OPERATION. SEE ELECTRICAL DRAWING FOR SWITCH AND CONTROLS.
- FAN TO BE PROVIDED WITH WALL MOUNTING BOOT, GRAVITY OUTLET SHUTTER, MOTOR AND BELT GUARDS. FAN SHALL BE OF EXTRA HEAVY WELDED CONSTRUCTION.
- 6. DUCT TO EXTERIOR WALL FULL SIZE OF FAN OPENING. PROVIDE WALL CAP WITH BACKDRAFT DAMPER.
- PROVIDE INTEGRAL SAFETY SWITCH. 8. PROVIDE ROOF CURB TO MATCH THE SLOPE OF THE ROOF.

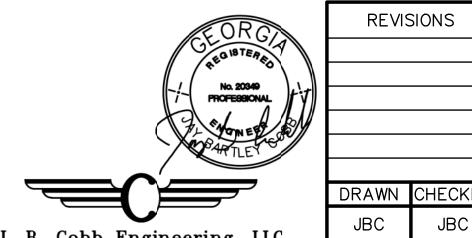
	WALL LOUVERS													
₩.	TYPE	SIZE		FRAME	BLADES	DAMPER	BASIS OF DESIGN	REMARKS						
TAG	111-6	WIDTH	HEIGHT	TIVAML	DLADES	DAMFEN	DASIS OF DESIGN	NEMPINAS						
1	STATIONARY	32 "	32"	MATCH WALL TYPE	DRAINABLE	YES, MOTORIZED	GREENHECK FSD-602	BIRDSCREEN, CHEMICAL RESISTANT COATING, SEE NOTE 1, 2, 3						
2	STATIONARY	24"	24"	MATCH WALL TYPE	DRAINABLE	YES, MOTORIZED	GREENHECK FSD-602	BIRDSCREEN, CHEMICAL RESISTANT COATING, SEE NOTE 1, 2, 3						
3	STATIONARY	24"	24*	MATCH WALL TYPE	DRAINABLE	YES, MOTORIZED	CHEM-PRUF OR EQUAL	BIRDSCREEN, CHEMICAL RESISTANT FRP						

- 1. LOUVERS SHALL BE EXTRUDED ALUMINUM WITH BIRDSCREEN AND MIN. .08" THICK FRAME AND BLADES. ENTIRE LOUVER SHALL BE KYNAR COATED. COLOR TO BE SELECTED BY OWNER /
- 2. LOUVER TO BE PROVIDED WITH 120V ELECTRIC MOTOR OPERATED DAMPER. DAMPER SHALL BE INTERLOCKED WITH RESPECTIVE FAN TO OPEN WHEN FAN IS ENERGIZED. DAMPERS SHALL BE FIBER-REINFORCED PLASTIC RESIN TYPE. DAMPER MOTOR/ACTUATOR SHALL BE INSTALLED IN A NEMA 4X ENCLOSURE SUITABLE FOR CORROSIVE ENVIRONMENTS. CASING SHALL BE EPOXY
- 3. OR EQUAL BY COOK, CAPTIVE—AIRE

_	AIR DISTRIBUTION DEVICE SCHEDULE													
TAG	BASIS OF DESIGN TYPE SIZE NECK MOUNT DAMPER REMARKS													
Α	TITUS TMS	DIFFUSER	24"X24"	6 " ø	LAY-IN	YES								
В	TITUS TMS	DIFFUSER	24"X24"	8 " ø	LAY-IN	YES								
С	TITUS TMS	DIFFUSER	24"X24"	10 " ø	LAY-IN	YES								
D	TITUS PAR	RETURN	24"X24"	8 " ø	LAY-IN	NO								
E	TITUS PAR	RETURN	24"X24"	12 " ø	LAY-IN	NO								
F														
G	TITUS TMS	DIFFUSER	12"X12"	6 " ø	SURFACE	YES								

	ELECTRIC UNIT HEATER SCHEDULE												
UH TAG	BASIS OF DESIGN (OR EQUAL BY CHROMOLOX, TRANE MODEL CFM FAN HEATER HP INPUT ELECTRICAL AREA SERVICE REMARKS/ACCESSORIES												
UH-1	REZNOR	EUH-5	479	0.03	5 KW	480/3/60	CHEMICAL ROOM/PIPE GALLERY	1,2,3,4					
UH-2	REZNOR	EUH-15	1,215	0.07	15 KW	480/3/60	CHEMICAL ROOM	1,2,3,4					

- PROVIDE WITH WALL MOUNTED THERMOSTAT, CONTACTOR, AND INTEGRAL FAN CONTROL POWER TRANSFORMER. ALL COMPONENTS SHALL BE HOUSED IN NEMA 4X ENCLOSURE SUITABLE FOR CORROSIVE ENVIRONMENTS. CASING SHALL BE EPOXY PAINTED.
- PROVIDE WITH WALL OR CEILING MOUNTING BRACKETS. MOUNT AS HIGH AS POSSIBLE (7' MIN.) A.F.F.
- PROVIDE WITH INTEGRAL NEMA 4X NON-FUSED DISCONNECT SWITCH. 4. PROVIDE INTEGRAL DISCONNECT SWITCH



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REVISIONS		CITY OF MILLEDGEVILLE, GEORGIA LAMAR HAM WTP IMPROVEMENTS					
		HVAC	DE.	ΓAILS	AND	SCHE	DULES
DRAWN	CHECKED						
JBC	JBC	SCALE:	AS SH	NWC	DATE:	OCTOBER	2025

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SHEET ATLANTA AUGUSTA **77** OF 112 ST. SIMONS ISLAND