CLASSROOM ADDITION TO LINCOLN HIGH SCHOOL

78989 AL HIGHWAY 77, LINCOLN, ALABAMA 35096 TALLADEGA COUNTY BOARD OF EDUCATION

TALLADEGA COUNTY BOARD OF EDUCATION

MRS. KATHY LANDERS **BOARD CHAIRMAN** MRS. SUSAN SHAW

MRS. SANDRA TUCK **BOARD MEMBER**

MR. JOHN R. PONDER **BOARD MEMBER** DR. DONNA HUDSON **BOARD MEMBER**

DR. SUZANNE LACEY SUPERINTENDENT OWNER TALLADEGA COUNTY BOARD OF EDUCATION

106 W. SOUTH STREET

TALLADEGA, ALABAMA 35161-0887

ARCHITECT LATHAN ASSOCIATES ARCHITECTS, P.C.

300 CHASE PARK SOUTH,

SUITE 200

HOOVER, ALABAMA 35244

EMAIL: RFI@LATHANASSOCIATES.COM

CIVIL LBYD

880 MONTLCAIR ROAD #600 BIRMINGHAM, ALABAMA 35213

STRUCTURAL DESIGN GROUP

HOOVER, ALABAMA 35244

300 CHASE PARK SOUTH, STE 125

MECHANICAL/

PINNACLE ENGINEERING, INC. 2111 PARKWAY OFFICE CIRCLE, STE 125

BIRMINGHAM, ALABAMA 35244

ELECTRICAL STEWART ENGINEERING

P.O. BOX 2233 ANNISTON, ALABAMA 36202

DRAWING INDEX (SET - 78 TOTAL SHEETS)

GENERAL (3 SHEETS)

BOARD VICE CHAIRMAN

- TITLE AND INDEX - LIFE SAFETY PLANS

- STORM SHELTER PLAN AND CALCULATIONS

CIVIL DRAWINGS (7 SHEETS)

- CIVIL NOTES

- SITE DEMOLITION PLAN

- SITE LAYOUT PLAN

- GRADING AND DRAINAGE PLAN

- EROSION CONTROL PLAN

- SITE UTILITY PLAN

- CIVIL DETAILS

ARCHITECTURAL DRAWINGS (25 SHEETS)

- ARCHITECTURAL SITE PLAN
- DEMOLITION PLAN AND PHOTOS
- MAIN LEVEL FLOOR PLAN
- ATTIC FLOOR PLAN
- ROOF PLAN AND ROOF LEGENDS
- TYPICAL ROOF DETAILS
- DOOR AND WINDOW SCHEDULE AND DETAILS
- DOOR DETAILS
- PLAN DETAILS
- BUILDING ELEVATIONS
- BUILDING SECTIONS
- WALL SECTIONS
- WALL SECTIONS - WALL SECTIONS
- ROOF DETAILS
- ROOF DETAILS
- ENLARGED ENTRY PLAN, ELEVATIONS AND DETAILS
- STAIR PLANS, SECTIONS AND DETAILS
- ENLARGED PLANS, PLUMBING ELEVATIONS, AND DETAILS A6.1 - CASEWORK PLAN AND ELEVATIONS
- CASEWORK SECTIONS
- REFLECTED CEILING PLAN AND DETAILS
- ATTIC REFLECTED CEILING PLAN
- FINISH FLOOR PLAN AND ENLARGED VCT PATTERNS
- FINISH SCHEDULE, LEGEND, AND DETAILS

STRUCTURAL DRAWINGS (19 SHEETS)

- GENERAL NOTES
- GENERAL NOTES CONTINUED
- TYPICAL DETAILS **S1.3** - TYPICAL DETAILS
- TYPICAL DETAILS

STRUCTURAL DRAWINGS CONT.

- TYPICAL DETAILS
- FOUNDATION PLAN
- ATTIC FRAMING PLAN
- ROOF FRAMING PLAN
- SECTIONS AND DETAILS
- SECTIONS AND DETAILS - SECTIONS AND DETAILS
- SECTIONS AND DETAILS

- SECTIONS AND DETAILS

- SECTIONS AND DETAILS

FIRE PROTECTION DRAWINGS

(3 SHEETS)

(7 SHEETS)

(8 SHEETS)

- FP0.1 - FIRE PROTECTION LEGEND, ABBREVIATIONS, SCHEDULES, AND DETAILS
- FP1.1 - FIRE PROTECTION FLOOR PLAN
- FIRE PROTECTION ATTIC FLOOR PLAN FP1.2

PLUMBING DRAWINGS (6 SHEETS)

- P0.1 - PLUMBING LEGEND, ABBREVIATIONS, SCHEDULES, AND DETAILS
- P1.1 - PLUMBING GRAVITY FLOOR PLAN
- P1.2 - PLUMBING GRAVITY ATTIC FLOOR PLAN
- PLUMBING PRESSURE FLOOR PLAN
- **P2.2** - PLUMBING PRESSURE ATTIC FLOOR PLAN
- P3.1 - PLUMBING RISERS

MECHANICAL DRAWINGS

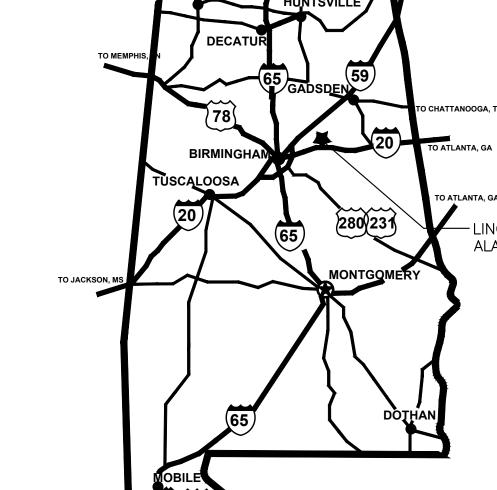
- MECHANICAL LEGEND, ABBREVIATIONS, SCHEDULES, AND DETAILS
- MECHANICAL FLOOR PLAN
- MECHANICAL ATTIC FLOOR PLAN
- MECHANICAL ROOF PLAN
- MECHANICAL DETAILS
- MECHANICAL DETAILS AND CONTROL DIAGRAMS
- MECHANICAL OUTSIDE AIR CALCULATIONS AND CONTROL DIAGRAMS

ELECTRICAL DRAWINGS

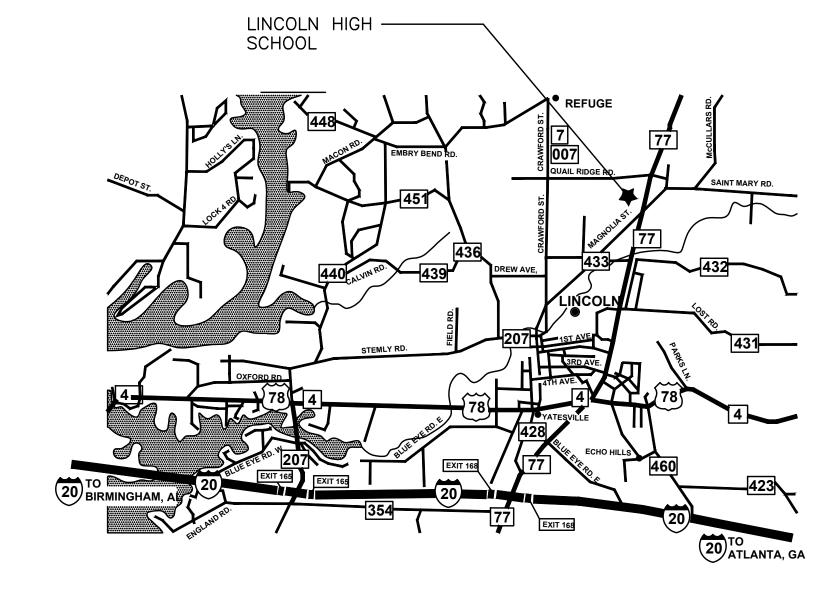
- MASTER PLAN AND SINGLE LINE DIAGRAM

- SCHEDULES, SYMBOLS, AND NOTES

- MAIN FLOOR PLAN LIGHTING - ATTIC FLOOR PLAN - LIGHTING
- MAIN FLOOR PLAN POWER
- ATTIC FLOOR PLAN POWER
- MAIN FLOOR PLAN AUXILIARIES
- ATTIC FLOOR PLAN AUXILIARIES



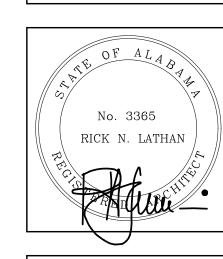


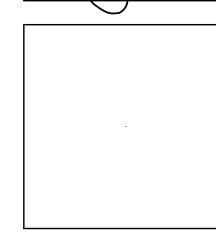


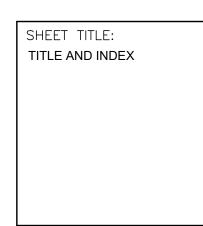




LINCOLN 78989 AL HIGHWAY TALLADEGA COUN

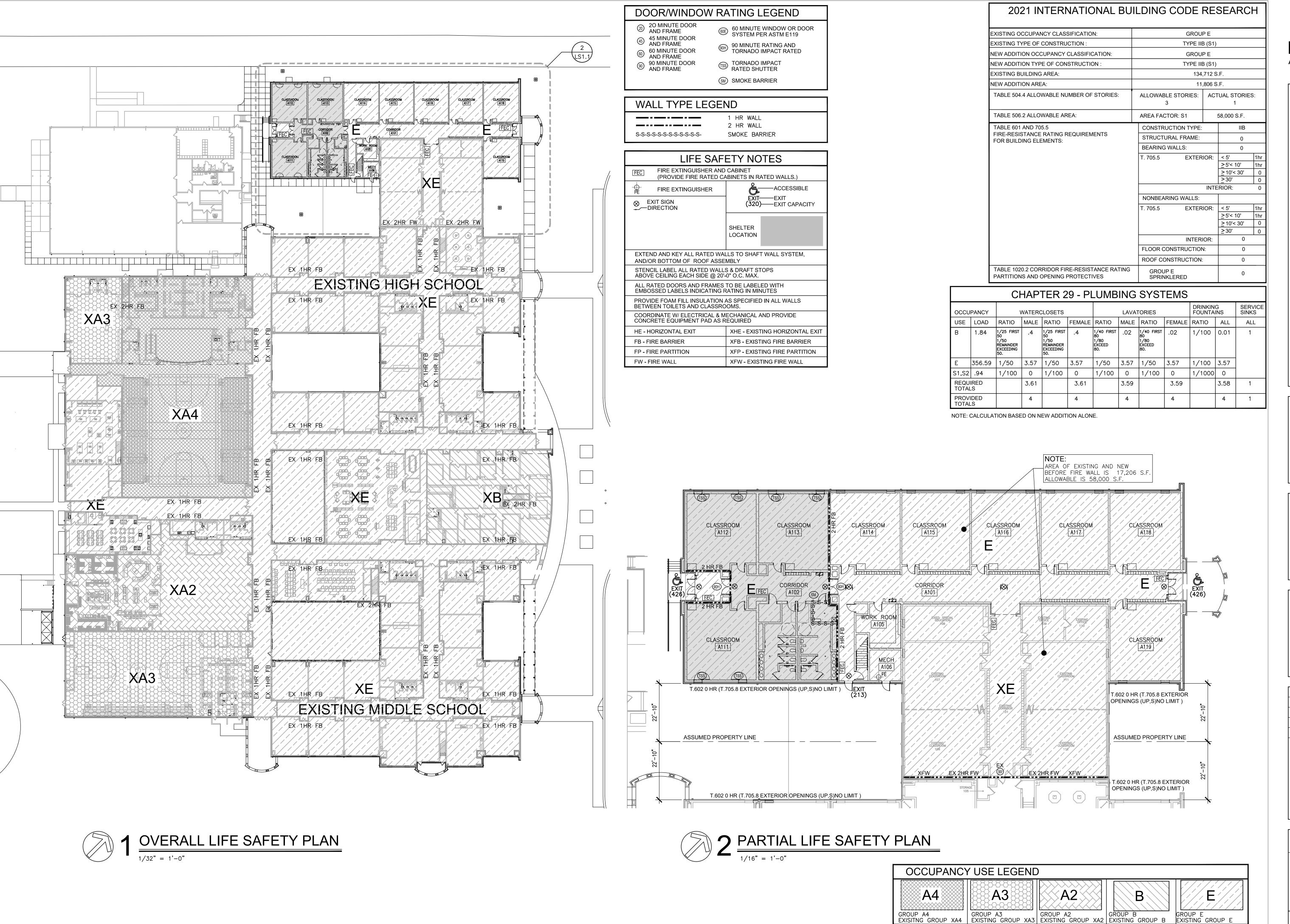






ROJ. MGR.: L. BRYANT PPh & E.B. DATE: JANUARY 31, 2023 REVISIONS

22-20 JOB NO. SHEET NO: 1 OF 3





ON TO HGH SCHOOL 77, LINCOLN, ALABAMA 35096

No. 3365
RICK N. LATHAN

SHEET TITLE: LIFE SAFETY PLANS

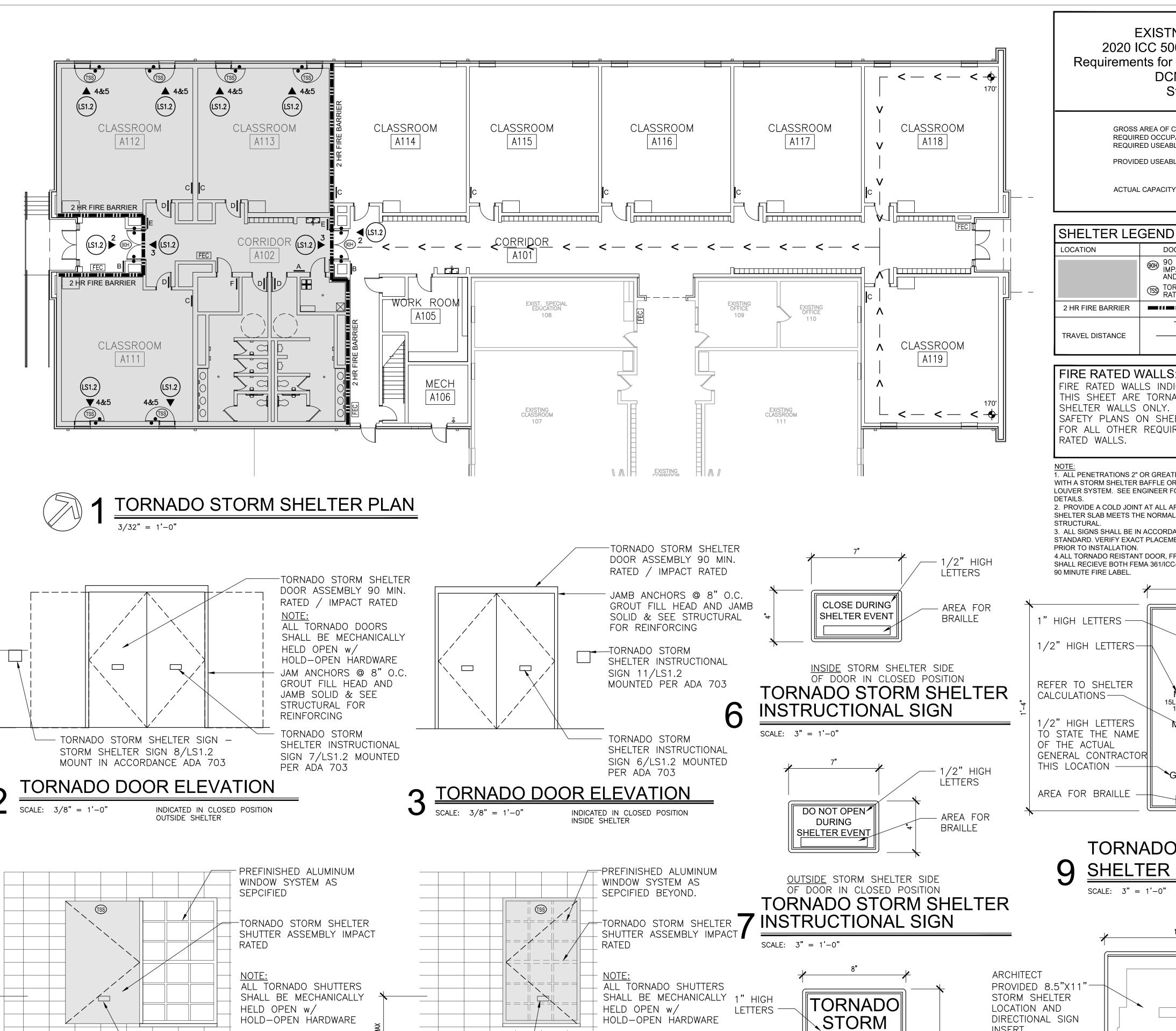
PROJ. MGR.: L. BRYANT
DRAWN: HR

Rasco
DATE: JANUARY 31, 2023
REVISIONS

JOB NO. 22-20
SHEET NO:

LS1.1

2 OF 3



TORNADO STORM

PER ADA 703

ORNADO DOOR ELEVATION

SCALE: 3/8" = 1'-0"

SHELTER INSTRUCTIONAL

SIGN 7/LS1.2 MOUNTED

INDICATED IN CLOSED POSITION

TORNADO STORM

PER ADA 703

INDICATED IN OPEN POSITION

TORNADO DOOR ELEVATION

SCALE: 3/8" = 1'-0"

SHELTER INSTRUCTIONAL

SIGN 6/LS1.2 MOUNTED

EXISTNG TORNADO STORM SHELTER CALCULATION 2020 ICC 500 (DCM Memo Updated Guidance on Tornado Storm Shelter Requirements for Public K-12 School February 18, 2021 and Department of Finance DCM Memo Updated Guidance on Mandatory Tornado Storm Shelters Required by IBC October 21, 2020)

GROSS AREA OF CLASSROOM/INSTRUCTIONAL SPACE: REQUIRED OCCUPANT CAPACITY (STUDENT AND FACULTY): REQUIRED USEABLE SHELTER FLOOR AREA:

PROVIDED USEABLE SHELTER FLOOR AREA:

ACTUAL CAPACITY OF STORM SHELTER:

7,203 / 30 = 240.11 PERSONS + 10% 24 = 265 263(5) = 1,315 S.F + 20 S.F. (2- WHEELCHAIR) = 1,335 S.F.

389: 387(5) + 2 WHEELCHAIRS (20) = 1,955 S.F

DESCRIPTION

SHELTER SIGN LEGEND

(6/LS1.2 AND 7/LS1.2)

FIRST AID KIT

ARCHITECT AND OWNER.

REQUIRED TOILET FACILITIES PROVIDED TOILET FACILITIES

PROVIDED WATER FOUNTAINS

REQUIRED LAVATORIES

PROVIDED LAVATORIES

CORRIDOR A102 (100% USEABLE) = 414 S.F. CLASSROOMS A111, A112, AND A113: 2,377.25 S.F. - 35% = 1,545.21 S.F. TOTAL USEABLE PROVIDED = 1.959.21 S.F.

> SECTION 508 STORM SHELTER PLAQUE WALL MOUNTED PER ADA 703 (9/LS1.2) SECTION 508 STORM SHELTER SIGN

WALL MOUNTED PER ADA 703 (8/LS1.2)

WALL MOUNTED PER ADA 703 (10/LS1.2) SIGN "D" OPEN DURING SHELTER (12/LS1.2) SIGN "E" LEAVING SHELTER SIGN (11/LS1.2)

SIGN "F" FAN SWITCH SIGN (13/LS1.2)

NOTE: FINAL PLACEMENT OF ALL SIGNS SHALL BE COORDINATED WITH

TABLE 702.2 SANITATION FACILITIES

REQUIRED SANITATION FACILITIES COMMUNITY TORNADO STORM

SHELTER > 50: CAPACITY OF SHELTER IS 389 PERSONS

NOTICE:

NOW LEAVING

SHELTER

SCALE: 3" = 1'-0"

OPEN DURING

INSIDE STORM SHELTER SIDE OF DOOR IN CLOSED POSITION

TORNADO STORM

INSTRUCTIONAL SIGN-D

SHELTER EVENT

SHELTER

SCALE: 3" = 1'-0"

EMERGENCY

VENTILATION FAN /

SWITCHES - SWITCH ON

DURING SHELTER

TORNADO SHELTER

INSIDE STORM SHELTER SIDE OF DOOR IN CLOSED POSITION

TORNADO STORM

1 INSTRUCTIONAL SIGN -E

SECTION 508 STORM SHELTER IDENTIFYING SIGN

STORM INSTRUCTIONAL SIGN MOUNTED PER ADA 703

DOOR TYPE 90 MINUTE TORNADO IMPACT RATED DOOR

TORNADO IMPACT RATED SHUTTER 2 HR FIRE BARRIER -DIRECTION

FIRE RATED WALLS:

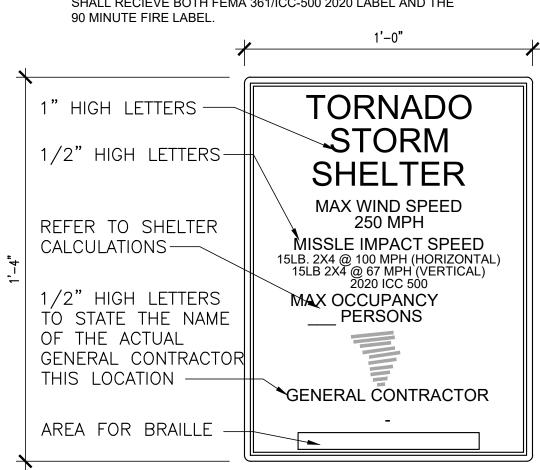
FIRE RATED WALLS INDICATED ON THIS SHEET ARE TORNADO STORM SHELTER WALLS ONLY. SEE LIFE SAFETY PLANS ON SHEET LS1.1 FOR ALL OTHER REQUIRED FIRE

1. ALL PENETRATIONS 2" OR GREATER MUST BE PROTECTED WITH A STORM SHELTER BAFFLE OR STORM SHELTER LOUVER SYSTEM. SEE ENGINEER FOR CONDITIONS AND

2. PROVIDE A COLD JOINT AT ALL AREAS WHERE STORM SHELTER SLAB MEETS THE NORMAL SLAB CONDITION. SEE

3. ALL SIGNS SHALL BE IN ACCORDANCE WITH 2010 ADA STANDARD. VERIFY EXACT PLACEMENT WITH ARCHITECT

4.ALL TORNADO REISTANT DOOR, FRAMES, AND WINDOWS SHALL RECIEVE BOTH FEMA 361/ICC-500 2020 LABEL AND THE



TORNADO STORM SHELTER PLAQUE- A

1**'**-0" INSERT. PROVIDE STORM SHELTER SIGN INSERT FRAME AS

SHELTER

TORNADO STORM

SHELTER SIGN - B

SCALE: 3" = 1'-0"

AREA FOR BRAILLE -

> SPECIFIED. TORNADO STORM SHELTER _ SHELTER 10 LOCATION SIGN FRAME - C

> > SCALE: 3" = 1'-0"

EVENT

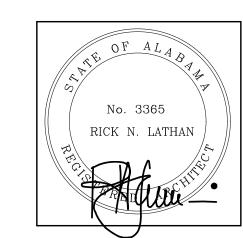
INSIDE STORM SHELTER SIDE OF DOOR IN CLOSED POSITION

TORNADO STORM 3INSTRUCTIONAL SIGN -F

SCALE: 3" = 1'-0"



OLN LINC 78989 AL H TALLADEG



AREA FOR

- 1/2" HIGH

LÉTTERS

AREA FOR

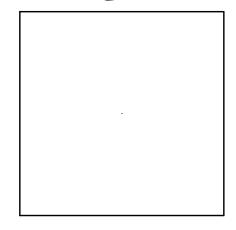
-1/2" HIGH LETTERS

AREA FOR

BRAILLE

BRAILLE

BRAILLE



SHEET TITLE: STORM SHELTER PLAN AND CALCULATIONS

ROJ. MGR.: L. BRYANT DRAWN: DATE: JANUARY 31, 2023 REVISIONS

22-20 OB NO. SHEET NO: LS1.2 3 OF 3

GENERAL NOTES:

TO LBYD IMMEDIATELY.

- 1. LBYD, INC. SHALL NOT HAVE AUTHORITY OVER THE SITE OR BUILDING CONTRACTOR'S WORK OR RESPONSIBILITIES. LBYD IS NOT RESPONSIBLE FOR SITE SAFETY PROCEDURES OR METHODS OF CONSTRUCTION.
- 2. ALL EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND OTHER UTILITIES MAY EXIST. CONTRACTOR MUST HAVE EXISTING UTILITIES LOCATED BY UNDERGROUND LINE LOCATORS AS WELL AS FIELD VERIFIED BY ONSITE PERSONNEL PRIOR TO ORDERING MATERIALS OR BEGINNING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED
- 3. EXISTING UTILITIES TO REMAIN MAY BE LOCATED WITHIN PROPOSED DEMOLITION AREAS. CONTRACTOR SHALL USE EXTREME CAUTION WHILE WORKING IN THESE AREAS TO ENSURE NO UTILITY SERVICE INTERRUPTIONS TO FACILITIES THAT REMAIN OR TO ADJACENT PROPERTIES.
- 4. ALL EXISTING IMPROVEMENTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE REMOVED UNLESS SPECIFICALLY NOTED, "TO REMAIN".
- 5. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT ADJACENT PROPERTIES AND IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING IMPROVEMENTS ON OR OFF SITE DUE TO THE CONSTRUCTION OF THIS PROJECT. ANY DAMAGE WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL VERIFY SITE BOUNDARY AND EXISTING TOPOGRAPHY. NOTIFY LBYD OF ANY DISCREPANCIES PRIOR TO SUBMITTING PRICES OR ORDERING MATERIALS
- 7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL BENCHMARKS AND PROPERTY CORNERS. ANY REPLACEMENT WILL BE AT THE CONTRACTOR'S EXPENSE
- WILL BE AT THE CONTRACTOR'S EXPENSE.

 8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS REQUIRED TO CONSTRUCT THIS
- PROJECT AND PAY ALL PERMIT FEES. ALL PERMITS MUST BE IN-HAND PRIOR TO CONSTRUCTION.

 9. BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY THE OWNER AND PERFORMED BY ARRINGTON ENGINEERING &
- LAND SURVEYING CO., INC. DATED 12/19/2022.

 10. TOPOGRAPHIC INFORMATION WAS PERFORMED VIA GROUND RUN FORMAT.

SITE DEMOLITION NOTES:

- 1. CONTRACTOR SHALL COORDINATE WITH OWNER AND THE UTILITY PROVIDER PRIOR TO THE DISCONNECTING OR REMOVAL OF ANY UTILITY SERVICE TO THE EXISTING BUILDINGS. ALL UTILITIES TO BE REMOVED ARE TO BE CAPPED OR PLUGGED OR TERMINATED ACCORDING TO THE UTILITY OWNERS REQUIREMENTS.
- 2. REFER TO SITE GRADING AND UTILITY PLANS FOR PROPOSED DRAINAGE AND UTILITY INSTALLATION AND REMOVAL.
- 3. REFER TO LAYOUT PLANS FOR ADDITIONAL INFORMATION RELATING TO PAVING, CURB, SIDEWALKS, HARDSCAPES, ETC. REMOVE EXISTING CURBS AS NEEDED TO INSTALL PROPOSED IMPROVEMENTS.
- 4. CONTRACTOR SHALL COORDINATE WITH OWNER AND THE UTILITY PROVIDER PRIOR TO THE DISCONNECTING OF ANY UTILITY SERVICE TO THE EXISTING BUILDINGS.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL, RELOCATION OR PROTECTION OF ALL ABOVE AND BELOW GROUND EXISTING IMPROVEMENTS THAT ARE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS UNLESS NOTED.
- ALL DEMOLITION AND CONSTRUCTION DEBRIS SHALL BE TRANSPORTED AND DISPOSED OF AT LEAST WEEKLY IN A LEGAL AND APPROVED MANNER.
- ALL EXISTING PAVING, CURBS, HARDSCAPE, ETC. SHALL BE SAW CUT AT THE LIMITS OF REMOVAL IN ORDER TO PROVIDE A CLEAN EDGE. EXISTING PAVING AT EDGE SHALL BE MILLED BACK A MINIMUM OF 24" TO ENSURE SMOOTH TRANSITION.

SITE LAYOUT NOTES:

- ALL HANDICAP RAMPS, SIGNS, SYMBOLS, AND PAINTED ISLANDS AND ACCESS ROUTES MUST CONFORM TO THE LATEST ADA REQUIREMENTS.
- 2. THE MAXIMUM SLOPE IN HANDICAP PARKING AREAS SHALL NOT EXCEED 2.0% GRADE IN ANY DIRECTION. SLOPE IN THE DIRECTION OF TRAVEL IN ALL HANDICAP ACCESS ROUTES SHALL NOT EXCEED 5.0% GRADE AND 2.0% CROSS SLOPE.
- 3. ALL DIMENSIONS AND COORDINATES SHOWN ARE TO THE OUTSIDE FACE OF BUILDING, TO THE BACK OF CURB, OR TO THE EDGE OF SURFACING UNLESS OTHERWISE NOTED. REFER TO ARCHITECTURAL PLANS FOR SPECIFIC BUILDING INFORMATION.
- 4. ALL STRIPING TO BE PER THE LATEST EDITION OF THE MUTCD UNLESS NOTED OTHERWISE.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A SITE CONSTRUCTION TRAFFIC CONTROL PLAN AND OBTAINING ANY REQUIRED APPROVALS FROM THE LOCAL JURISDICTIONAL AUTHORITY. THE SITE CONSTRUCTION TRAFFIC CONTROL PLAN SHALL TAKE INTO ACCOUNT THE ENTERING AND EXITING OF CONSTRUCTION TRAFFIC ONTO THE ROADWAY AND THE IMPACT TO THE FLOW OF TRAFFIC. THIS PLAN SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MUTCD. THIS SITE CONSTRUCTION TRAFFIC CONTROL PLAN SHALL BE IN ADDITION TO ANY TRAFFIC CONTROL PLAN PROVIDED IN THE PLAN SET FOR ROADWAY IMPROVEMENTS.
- 6. CONTRACTOR IS RESPONSIBLE FOR ADJUSTING ELEVATIONS OF ALL AT-GRADE STRUCTURES AND UTILITIES TO REMAIN (VALVE BOXES, MANHOLES, INLETS, VAULTS, ETC) TO MATCH PROPOSED FINISHED GRADES.

GRADING NOTES:

LBYD OF ANY DISCREPANCIES.

- 1. THE OWNER SHALL BE RESPONSIBLE FOR PROVIDING COMPACTION TESTING.
- 2. ALL TOPSOIL SHALL BE STRIPPED WITHIN THE PROPOSED LIMITS OF GRADING AND SHALL BE STOCKPILED ON-SITE IN AN APPROVED LOCATION FOR LATER USE WITH ANY EXCESS TO BE DISPOSED OF OFF-SITE ONCE ALL LANDSCAPED AREAS HAVE BEEN BROUGHT TO FINISH GRADE UNLESS OTHERWISE NOTED ON THE PLANS.
- 3. SUBGRADE SHALL BE PROOF ROLLED WITH A HEAVILY LOADED DUMP TRUCK AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING FILL. ANY AREAS SHOWING SIGNS OF PUMPING, RUTTING, OR ANY UNSUITABLE (ORGANIC, SOFT, WET, LOOSE) MATERIAL FOUND IN PLACE SHALL BE UNDERCUT AND REPLACED, OR MOISTURE CONDITIONED AND COMPACTED TO THE SPECIFIED DENSITY AND MOISTURE CONTENT LISTED BELOW.
- 4. ALL EXPOSED SUBGRADE SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 12" AND RECOMPACTED TO THE SPECIFIED DENSITY AND MOISTURE CONTENT LISTED BELOW.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING THE SUBGRADE AFTER IT HAS BEEN INITIALLY PREPPED DUE TO INCLEMENT WEATHER AND CONSTRUCTION TRAFFIC.
- 5. FILL MATERIAL SHALL HAVE THE FOLLOWING PROPERTIES: VIRTUALLY FREE OF ORGANICS, NO ROCK FRAGMENTS GREATER THAN 4" WITHIN 4' OF FINISH GRADE, LIQUID LIMIT NOT EXCEEDING 50, PLASTICITY INDEX NOT EXCEEDING 25, MINIMUM STANDARD PROCTOR (ASTM D-698) OF 100 PCF, COMPACTED 98% IN PAVED AND STRUCTURAL AREAS, 95% NON-STRUCTURAL AND LANDSCAPED AREAS, PLACED IN 8" LOOSE LIFTS, AND WITHIN ±2.0% OF OPTIMUM MOISTURE CONTENT. STRUCTURAL AREAS INCLUDE ZONES OF INFLUENCE AROUND THE BUILDING, PAVEMENT AREAS, FILL SLOPES, FTC.
- 7. COMPACTION TESTS SHALL BE TAKEN AT THE RECOMMENDATION OF THE ON-SITE GEOTECHNICAL ENGINEER, BUT AT A MINIMUM EVERY 2,500 SQUARE FEET OF AREA PER 8" LIFT.
- 8. COMPACTION WITHIN LIMITED SPACES (I.E. MANHOLES, INLETS, UTILITY TRENCHES) SHOULD BE BACKFILLED AND COMPACTED SYSTEMATICALLY, AT THE DIRECTION OF THE ON-SITE GEOTECHNICAL ENGINEER. STONE BACKFILL SHALL BE INSTALLED IN 12" LOOSE LIFTS AND COMPACTED WITH 6-8 PASSES OF A VIBRATORY COMPACTOR
- 9. CLEARING LIMITS SHALL BE 5' OUTSIDE OF ALL PROPOSED GRADED AREAS OR NOT BEYOND THE PROPERTY LINES WHICHEVER IS LESS.
- 10. NO GRADING OFF-SITE OR IN ANY ROAD RIGHT-OF-WAY WITHOUT PROPER APPROVALS AND PRIOR NOTIFICATION.
- 11. COORDINATE THE SEQUENCING OF ALL GRADING OPERATIONS WITH THE EROSION CONTROL PLAN.
- 12. THE MAXIMUM SLOPE IN HANDICAP PARKING AREAS SHALL NOT EXCEED 2.0% GRADE IN ANY DIRECTION. SLOPE IN THE DIRECTION OF TRAVEL IN ALL HANDICAP ACCESS ROUTES SHALL NOT EXCEED 5.0% GRADE AND 2.0% CROSS SLOPE.
- ALL GRADING ADJACENT TO EXISTING OR PROPOSED BUILDINGS SHALL BE SLOPED AWAY FROM THE STRUCTURES AT A MINIMUM OF 1.0% GRADE. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM THE STRUCTURES. NOTIFY
- 14. PROPOSED GRADES INDICATED ON THIS PLAN ARE TO FINISH GRADE. THE CONTRACTOR SHALL MAKE SUBGRADE ADJUSTMENTS FOR TOPSOIL, PAVING, BUILDING PAD, ETC.
- 15. RETAINING WALL GRADES: GTW INDICATES FINISHED GRADE AT TOP OF WALL, GBW INDICATES FINISHED GRADE AT BOTTOM OF WALL. SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR FOOTING ELEVATIONS RELATIVE TO FINISHED GRADE AT BOTTOM OF WALL.
- 16. A GEOTECHNICAL REPORT HAS BEEN PREPARED BY TERRACON CONSULTANTS, INC., PROJECT NUMBER E1225186, DATED DECEMBER 7, 2022 AND IS AVAILABLE FOR INFORMATION PURPOSES. THE CONTRACTOR SHALL REVIEW THIS REPORT, VISIT THE SITE AND COMPLETE ANY ADDITIONAL EXPLORATIONS THAT IT FEELS NECESSARY IN ORDER TO PROVIDE A SATISFACTORY BID.
- 17. DEWATERING SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. PREVENT SURFACE WATER AND GROUND WATER FROM ENTERING EXCAVATIONS, FROM PONDING ON PREPARED SUBGRADES, AND FROM FLOODING PROJECT SITE AND SURROUNDING AREA. PROTECT SUBGRADES FROM SOFTENING, UNDERMINING, WASHOUT, AND DAMAGE BY RAIN OR WATER ACCUMULATION. REROUTE SURFACE WATER RUNOFF AWAY FROM EXCAVATED AREAS. DO NOT ALLOW WATER TO ACCUMULATE IN EXCAVATIONS. DO NOT USE EXCAVATED TRENCHES AS TEMPORARY DRAINAGE DITCHES. INSTALL A

- DEWATERING SYSTEM TO KEEP SUBGRADES DRY AND CONVEY GROUND WATER AWAY FROM EXCAVATIONS. MAINTAIN UNTIL DEWATERING IS NO LONGER REQUIRED. IF GROUNDWATER DEWATERING IS REQUIRED, CONTRACTOR IS TO OBTAIN ANY PERMITS AS MAY BE REQUIRED PRIOR TO DISCHARGE OF EFFLUENT FROM DEWATERING.
- 18. GRADING ADJACENT TO THE BUILDING SHALL BE COORDINATED WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR FOUNDATION WALLS, STEM WALLS, DRAINS, AND OTHER CONDITIONS. THE CONTRACTOR SHALL NOTIFY LBYD INC. OF ANY DISCREPANCIES.

STORM DRAINAGE NOTES:

- 19. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL STORM PIPE MATERIALS TO LBYD PRIOR TO INSTALLATION AND/OR FABRICATION.
- 20. ALL PROPOSED STORM INLETS (GRATES, CURB, YARD, AREA DRAINS) ARE TO BE LOCATED AT THE LOWPOINTS. GRADING SHALL BE TO DIRECT RUNOFF TO THESE INLETS. NOTIFY LBYD OF ANY DISCREPANCIES.
- 21. STORM DRAINAGE SYSTEMS SHALL BE CONSTRUCTED FROM DOWNSTREAM TO UPSTREAM. VERIFY ALL PIPE SLOPES, INVERTS, AND POINTS OF CONNECTION PRIOR TO CONSTRUCTION, NOTIFY LBYD OF ANY DISCREPANCIES.
- 22. THE CONTRACTOR SHALL VERIFY ALL EXISTING AND PROPOSED STORM PIPE GRADES AND POINTS OF CONNECTION PRIOR TO INSTALLATION. LBYD SHALL BE NOTIFIED OF ANY DEVIATIONS PRIOR TO CONSTRUCTION.
- 23. PROPOSED STORM PIPES 30" AND LESS SHALL BE BEDDED IN 4" OF CRUSHED AGGREGATE AND STORM PIPES 36" AND GREATER SHALL BE BEDDED IN A 6" OF CRUSHED AGGREGATE.
- 24. ALL STORM PIPES 15" AND LESS SHALL BE SMOOTH LINED HIGH DENSITY POLYETHYLENE (HDPE) OR SCHEDULE 40 POLYVINYL CHLORIDE (PVC) WITH WATER-TIGHT JOINTS UNLESS OTHERWISE NOTED, INSTALLED PER MANUFACTURERS RECOMMENDATIONS. ALL STORM PIPES 18" AND GREATER SHALL BE CLASS 3 REINFORCED CONCRETE PIPE (RCP) BELL AND SPIGOT INSTALLED WITH WATERTIGHT JOINTS UNLESS OTHERWISE NOTED.
- 25. ALL STORM MANHOLES SHALL BE PRECAST CONE, RISER, AND BASE SECTIONS WITH GASKETED JOINTS MEETING ALDOT SPECIAL DRAWING # MH-621-2.
- 26. ALL YARD INLETS SHALL BE PRECAST INLET BOXES 3-1" x 3-1" OR 4'2 x 4'-2" DEPENDING ON MAXIMUM PIPE DEFLECTIONS. YARD INLET TOP TO BE PRECAST WITH A RING AND COVER ACCESS PROVIDED THROUGH THE TOP.
- 27. ALL CONCRETE COLLARS SHALL BE PER ALDOT SPECIAL DRAWING # CC-530.
- 28. CONTRACTOR SHALL PROVIDE CAST IRON DOWNSPOUT BOOTS, CLEANOUTS AND COLLECTOR LINES FROM ALL EXTERIOR DOWNSPOUTS TO CONNECT TO PRIMARY STORM DRAINAGE SYSTEM. COORDINATE WITH EXTERIOR ELEVATIONS, ROOF AND PLUMBING PLANS FOR DOWNSPOUT LOCATIONS. COORDINATE DOWNSPOUT MODEL NUMBER WITH THE ARCHITECT.
- 29. CONTRACTOR SHALL COORDINATE ROOF DRAIN COLLECTOR LINES, DOWNSPOUTS AND BOOTS WITH FOOTING ELEVATIONS ON THE STRUCTURAL PLANS PRIOR TO POURING FOOTINGS. TOP OF FOOTINGS SHALL BE A MINIMUM OF 3' BELOW GRADE AT ALL ROOF DRAIN DOWNSPOUT LOCATIONS TO ENSURE ADEQUATE COVER TO TRANSITION TO BELOW GRADE PIPING.
- 30. PROVIDE 4" PVC SCHEDULE 40 GRAVITY DRAIN LINE FROM ALL BELOW GRADE UTILITY VAULTS TO THE NEAREST STORM DRAINAGE INLET OR DAYLIGHT AT GRADE.

EROSION CONTROL NOTES:

- 1. SITE EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL LAWS, CODES, AND REGULATIONS.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY REQUIRED EROSION CONTROL PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MONITORING, INSPECTIONS, ETC. TO ENSURE THE OWNER THAT THE SITE IS AT ALL TIMES IN ACCORDANCE WITH PERMIT RULES & REGULATIONS. DOCUMENTATION OF INSPECTIONS BY A Q.C.I. OR Q.C.P. SHALL BE MAINTAINED BY THE CONTRACTOR AND PROVIDED TO THE OWNER AT HIS/HER REQUEST. ANY AND ALL FEES, FINES, ETC., SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 3. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING THE CONSTRUCTION PROCESS AND UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ALL EROSION CONTROL INSTALLATION AND MAINTENANCE SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE AT NO ADDITIONAL COST TO THE OWNER.
- 4. EROSION CONTROL DEVICES SHOWN ON THESE PLANS ARE A MINIMUM AND ARE DEPENDENT ON THE CONTRACTOR'S CONSTRUCTION PHASING OF THE PROJECT. ADDITIONAL DEVICES SHALL BE INSTALLED AS REQUIRED TO PREVENT SILTATION, EROSION AND OTHER DEGRADATION OR POLLUTION TO THE SITE OR ADJACENT PROPERTIES, STREAMS, DITCHES, AND PUBLIC ROADWAYS. ADDITIONAL MEASURES MAY INCLUDE, AS MINIMUM, TEMPORARY SEDIMENT BASINS, CONSTRUCTION EXITS PAD, VEHCILE WASH RACKS, SILT FENCING, STRAW AND RIP RAP CHECK DAMS, DIVERSION DITCHES ETC. THESE ADDITIONAL MEASURES SHALL BE AT NO ADDITIONAL COST TO THE OWNER.
- 5. EROSION CONTROL DEVICES SHALL INCLUDE, BUT NOT LIMITED, TO THE FOLLOWING DEVICES: SILT FENCING, BRUSH BERMS, SEDIMENT BASINS, DETENTION PONDS, STRAW WATTLES, CHECK DAMS, FILTER BERMS, JUTE MATTING, VEGETATIVE FILTER STRIPS, TURF REINFORCEMENT MAT, DIVERSION BERMS, ETC.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL DEVICES IN GOOD OPERATING CONDITION DURING ALL LAND DISTURBING ACTIVITIES. THIS RESPONSIBILITY SHALL INCLUDE THE CLEANUP AND/OR REPAIRS TO THE DEVICES AT NO ADDITIONAL COST TO THE OWNER.
- 7. EROSION CONTROL DEVICES SHALL BE MONITORED AND MAINTAINED UNTIL THE SITE HAS BEEN PERMANENTLY STABILIZED AND AFTER EACH RAINFALL GREATER THAN 0.75 INCHES IN A 24 HOUR PERIOD, ANY WIND GUSTS GREATER THAN 25 MPH, AND ANY SUSTAINED WINDS GREATER THAN 20 MPH IN A 24 HOUR PERIOD.
- 8. AFTER ALL LAND DISTURBANCE ACTIVITIES HAVE CEASED AND AFTER ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED, THE EROSION CONTROL DEVICES SHALL BE REMOVED BY THE CONTRACTOR AND THE AREA CLEANED AND DRESSED.
- 9. DEWATERING OPERATIONS MAY NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE OR POLLUTION TO ADJACENT PROPERTIES, STREAMS, DITCHES, OR PUBLIC ROADWAYS.
- 10. A GRAVELED ACCESS DRIVE OF SUFFICIENT SIZE SHALL BE AT EACH SITE ENTRANCE/EXIT TO PREVENT TRACKING OF DIRT AND SEDIMENT ONTO PUBLIC OR PRIVATE ROADWAYS. IF SEDIMENT REACHES THE ROADWAY, THEN IT MUST BE CLEANED AT THE END OF EACH WORKDAY.
- 11. ALL LAND DISTURBANCE ACTIVITIES SHALL BE CONDUCTED IN A LOGICAL SEQUENCE TO MINIMIZE THE EXPOSURE OF BARE AREAS AT ANY ONE TIME.
- 12. ALL DISTURBED AREAS LEFT INACTIVE FOR MORE THAN 13 DAYS SHALL BE SEEDED AND MULCHED IN ACCORDANCE WITH ALDOT SPECIFICATIONS SECTION 652 AND 656 OR HYDRAULICALLY APPLIED BY ALDOT SPECIFICATION SECTION 659.
- 13. ALL PREVIOUSLY GRADED AREAS SHALL RECEIVE 4 INCHES OF TOPSOIL AND PERMANENT GRASSING UNLESS OTHERWISE INDICATED ON THE LANDSCAPE PLAN.
- 14. PRIOR TO SITE CLEARING, ALL PERIMETER SILT FENCING, BRUSH BERMS, ETC. AND GRAVELED ACCESS DRIVES SHALL BE INSTALLED.
- 15. ALL EXISTING STREAMS, DITCHES, ETC. SHALL BE PROTECTED FROM SEDIMENTS AND SILTS BY SILT FENCING, WATTLES, BRUSH BERMS, ETC.
- 16. WATTLES OR SILT FENCING SHALL BE INSTALLED AT ALL INLETS UPON THE COMPLETION OF EACH INLET.
- 17. GEOTEXTILE SHALL BE PLACED ON ALL 2:1 SIDE SLOPES. GEOTEXTILE SHALL BE NORTH AMERICAN GREEN SC150 OR APPROVED EQUAL UNLESS OTHERWISE NOTED ON PLANS. ALL GEOTEXTILES SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
- 18. GEOTEXTILE SHALL BE PLACED ON ALL 3:1 SIDE SLOPES. GEOTEXTILE SHALL BE NORTH AMERICAN GREEN S150 OR APPROVED EQUAL UNLESS OTHERWISE NOTED ON PLANS. ALL GEOTEXTILES SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
- 19. GEOTEXTILE SHALL BE PLACED ON ALL DITCH BOTTOMS & 1' UP EACH SIDE. GEOTEXTILE SHALL BE NORTH AMERICAN GREEN SC150 OR APPROVED EQUAL UNLESS OTHERWISE NOTED ON PLANS. ALL GEOTEXTILES SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.

UTILITY NOTES:

- THE SITE CONTRACTOR IS RESPONSIBLE FOR COMPLETING ALL UTILITY SERVICES (WATER, SEWER, GAS, ELECTRICAL, TELEPHONE, CABLE TV) FROM THE POINT THE RESPECTIVE UTILITY COMPANY COMPLETES THEIR WORK TO THE POINT OF CONNECTION AT THE BUILDING.
- 2. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, ETC. PLANS FOR ALL PROPOSED UTILITY POINTS OF CONNECTION AT THE BUILDING. NOTIFY ARCHITECT OF ANY DISCREPANCIES.

3. GRAVITY SEWER SYSTEMS SHALL BE CONSTRUCTED FROM DOWNSTREAM TO UPSTREAM. VERIFY ALL PIPE SLOPES,

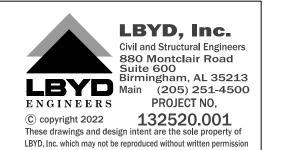
- INVERTS, AND POINTS OF CONNECTION PRIOR TO CONSTRUCTION. NOTIFY LBYD OF ANY DISCREPANCIES.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING AND PROPOSED GRAVITY SEWER PIPE GRADES AND POINTS OF CONNECTION PRIOR TO INSTALLATION. LBYD SHALL BE NOTIFIED OF ANY DEVIATIONS PRIOR TO CONSTRUCTION.
- BACKFLOW PREVENTION SHALL BE PROVIDED ON THE DOMESTIC SERVICE IN ACCORDANCE WITH THE LOCAL UTILITY COMPANY'S REQUIREMENTS.

- 6. WATER MAINS 4 INCHES IN DIAMETER AND GREATER SHALL BE DIP(CL.350) AND WATER MAINS LESS THAN 3 INCHES IN DIAMETER SHALL BE PVC (SCH.40) UNLESS OTHERWISE INDICATED ON THE PLANS.
- 7. WATER MAINS AND SERVICES SHALL BE A MINIMUM OF 10 FEET HORIZONTAL AND 2 FEET VERTICAL FROM ALL SANITARY SEWER MAINS AND LATERALS
- SEWER MAINS AND LATERALS.

 8. WATER MAINS AND SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE LOCAL UTILITY COMPANY'S REQUIREMENTS.
- 9. ALL SANITARY SEWER MAINS AND LATERALS SHALL BE PVC (SCH.40) UNLESS OTHERWISE REQUIRED BY THE LOCAL UTILITY COMPANY.

ALL MAINS AND SERVICES SHALL BE INSTALLED WITH A MINIMUM OF 36" COVER UNLESS OTHERWISE INDICATED ON PLANS.

- 10. ALL UNDERGROUND ELECTRICAL, TELEPHONE, AND CABLE TV SHALL BE INSTALLED IN PVC CONDUIT OR CONCRETE ENCASED DUCT BANK WITH PULL WIRE MEETING THE LOCAL UTILITY COMPANY'S REQUIREMENTS. INFORMATION SHOWN ON CIVIL DRAWINGS FOR REFERENCE ONLY. REFER TO ELECTRICAL PLANS FOR SPECIFIC INFORMATION.
- 11. GAS SERVICE SHALL BE PER THE LOCAL UTILITY COMPANY'S REQUIREMENTS. INFORMATION SHOWN ON CIVIL DRAWINGS FOR REFERENCE ONLY. COORDINATE WITH MECHANICAL ENGINEER AND UTILITY COMPANY.
- 12. UTILITY TRENCHES SHALL BE BACKFILLED WITH COMPACTED FILL PLACED IN 6 INCH LOOSE LIFTS. FILL SHALL BE COMPACTED TO 98% STANDARD PROCTOR AND OPTIMUM MOISTURE CONTENT WITHIN ±2.0%.
- 13. WHEN INSTALLING UTILITIES IN EXISTING PAVED AREAS OR IN AREAS WHERE SOILS ARE CONSIDERED UNSUITABLE FOR BEDDING OR BACKFILLING, UTILITY TRENCHES SHALL BE BACKFILLED FULL DEPTH WITH CRUSHED AGGREGATE.
- 14. WHERE UTILITIES ARE TO BE INSTALLED IN AREAS OF EXISTING PAVING, HARDSCAPE, SIDEWALKS, ETC., CONTRACTOR SHALL SAWCUT AND REMOVE EXISTING PAVING, HARDSCAPE, SIDEWALK ETC. AND REPLACE IN LIKE KIND AND RESTRIPE AS NECESSARY. BACKFILL TRENCH FULL DEPTH WITH STONE.
- 15. CONTRACTOR IS RESPONSIBLE FOR ADJUSTING ELEVATIONS OF ALL AT-GRADE STRUCTURES AND UTILITIES TO REMAIN (VALVE BOXES, MANHOLES, INLETS, VAULTS, ETC) TO MATCH PROPOSED FINISHED GRADES.
- 16. PROVIDE 4" PVC SCHEDULE 40 GRAVITY DRAIN LINE FROM ALL BELOW GRADE UTILITY VAULTS TO THE NEAREST STORM DRAINAGE INLET OR DAYLIGHT AT GRADE.



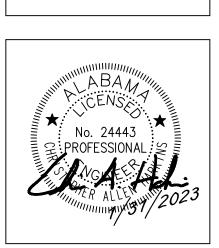


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LADEGA COUNTY BOARD OF EDUCATIO



SHEET TITLE:
CIVIL NOTES

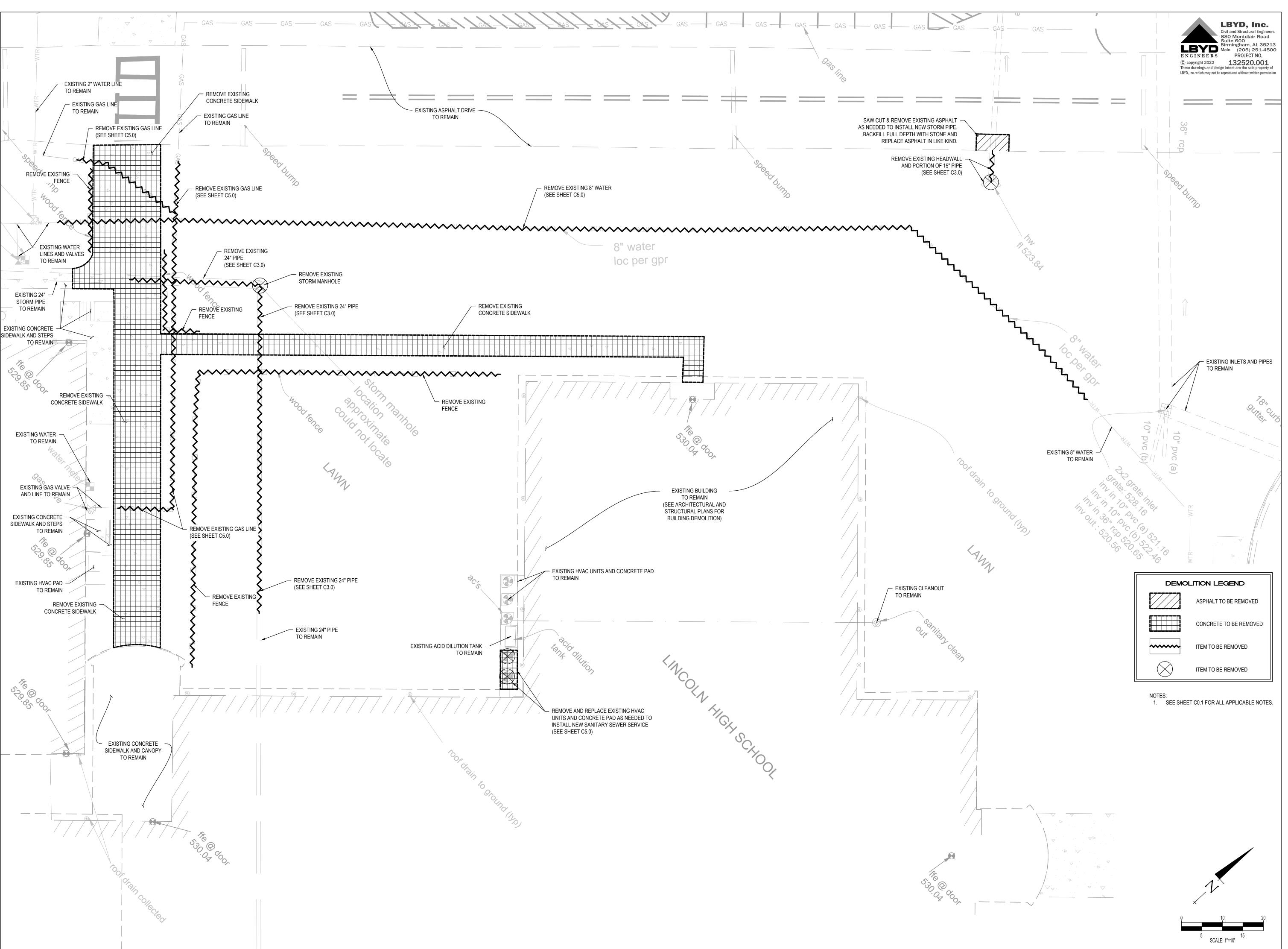
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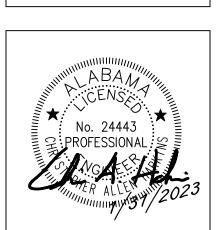
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SHEET NO:

1 OF 7







SHEET TITLE:
SITE DEMOLITION PLAN

PROJ. MGR.: CAH
DRAWN: LBH
DATE: JANUARY 31, 2023
REVISIONS

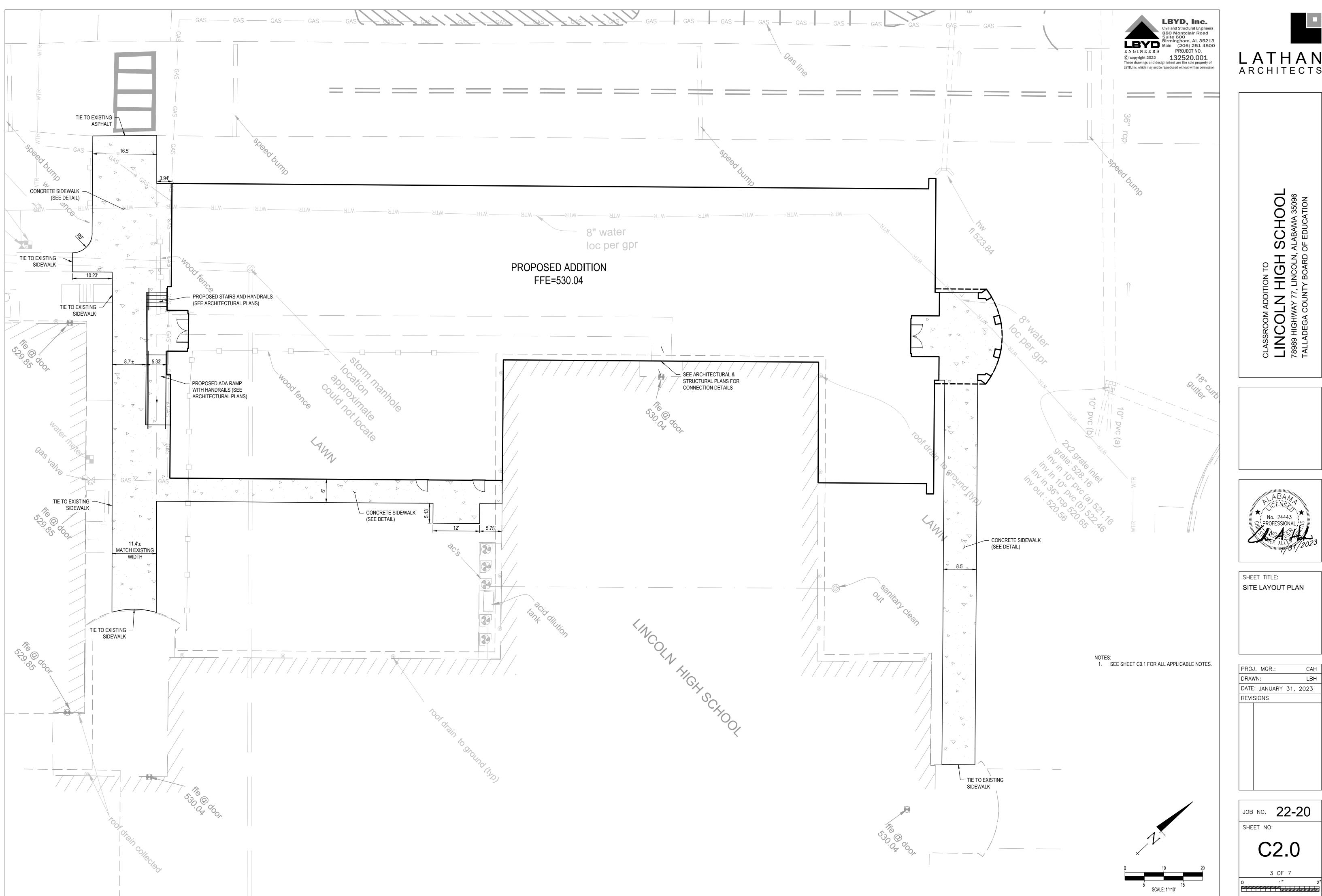
JOB NO. 22-20

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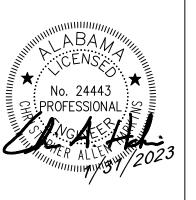
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2 OF 7

0 1" 2"



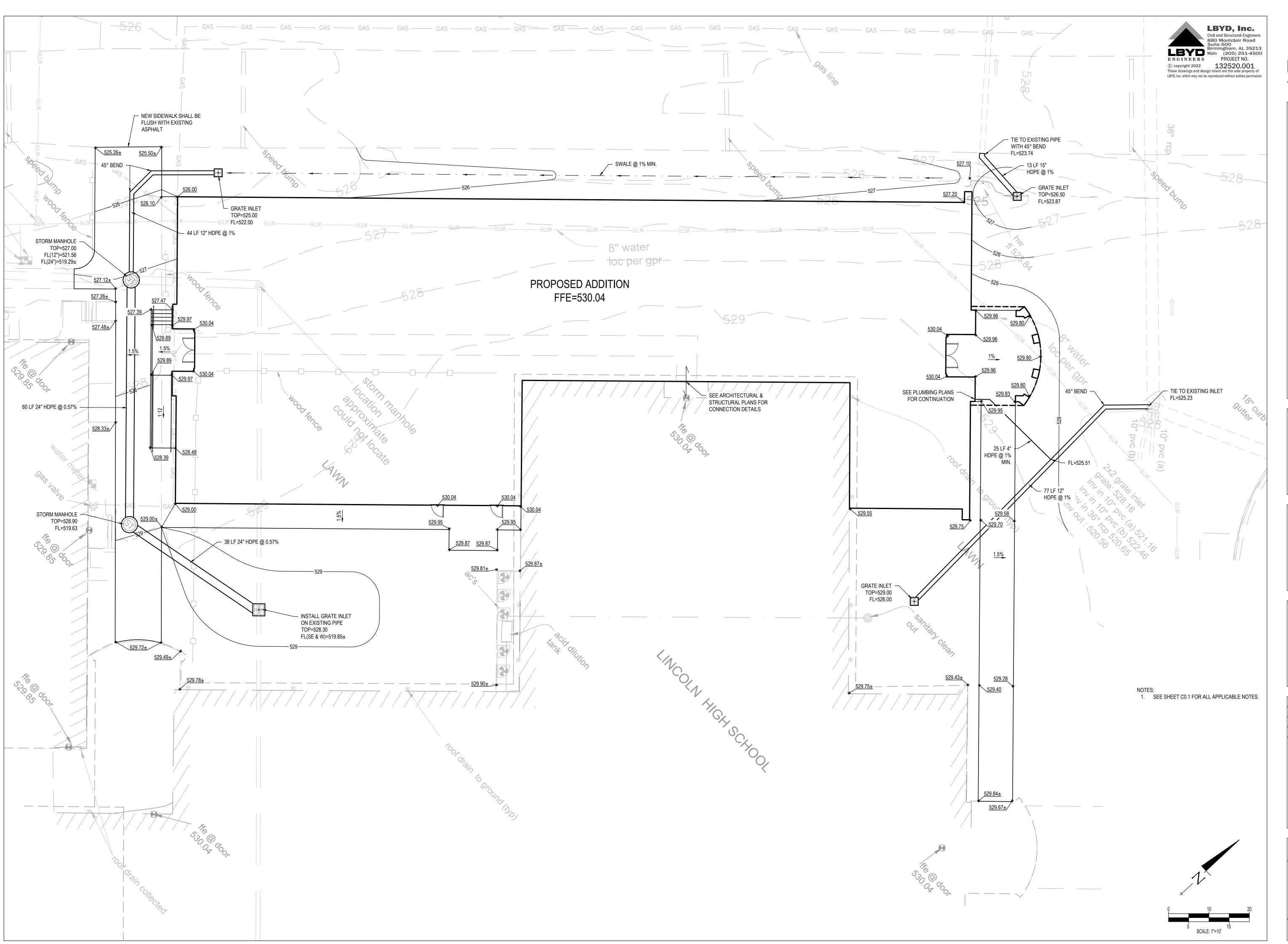




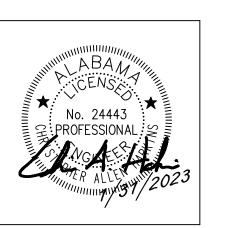
SITE LAYOUT PLAN

LBH DATE: JANUARY 31, 2023

JOB NO. **22-20** C2.0 3 OF 7







SHEET TITLE:

GRADING AND
DRAINAGE PLAN

PROJ. MGR.:	CAH
DRAWN:	LBH
DATE: JANUARY 31,	2023
REVISIONS	

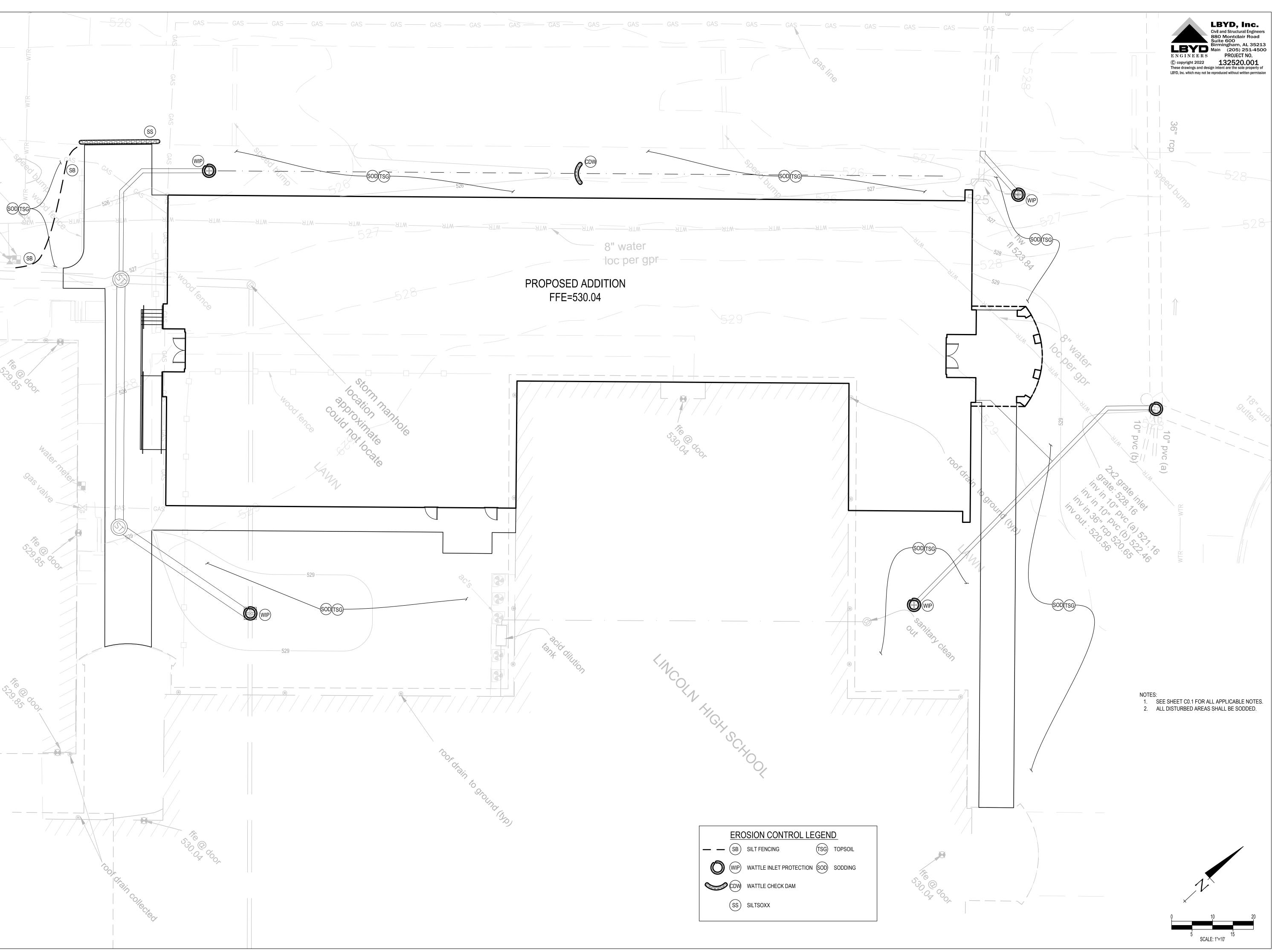
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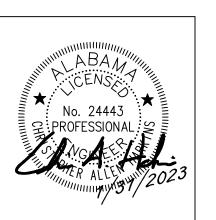
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4 OF 7

0 1" 2"







SHEET TITLE:
EROSION CONTROL
PLAN

PROJ. MGR.: CAH
DRAWN: LBH
DATE: JANUARY 31, 2023
REVISIONS

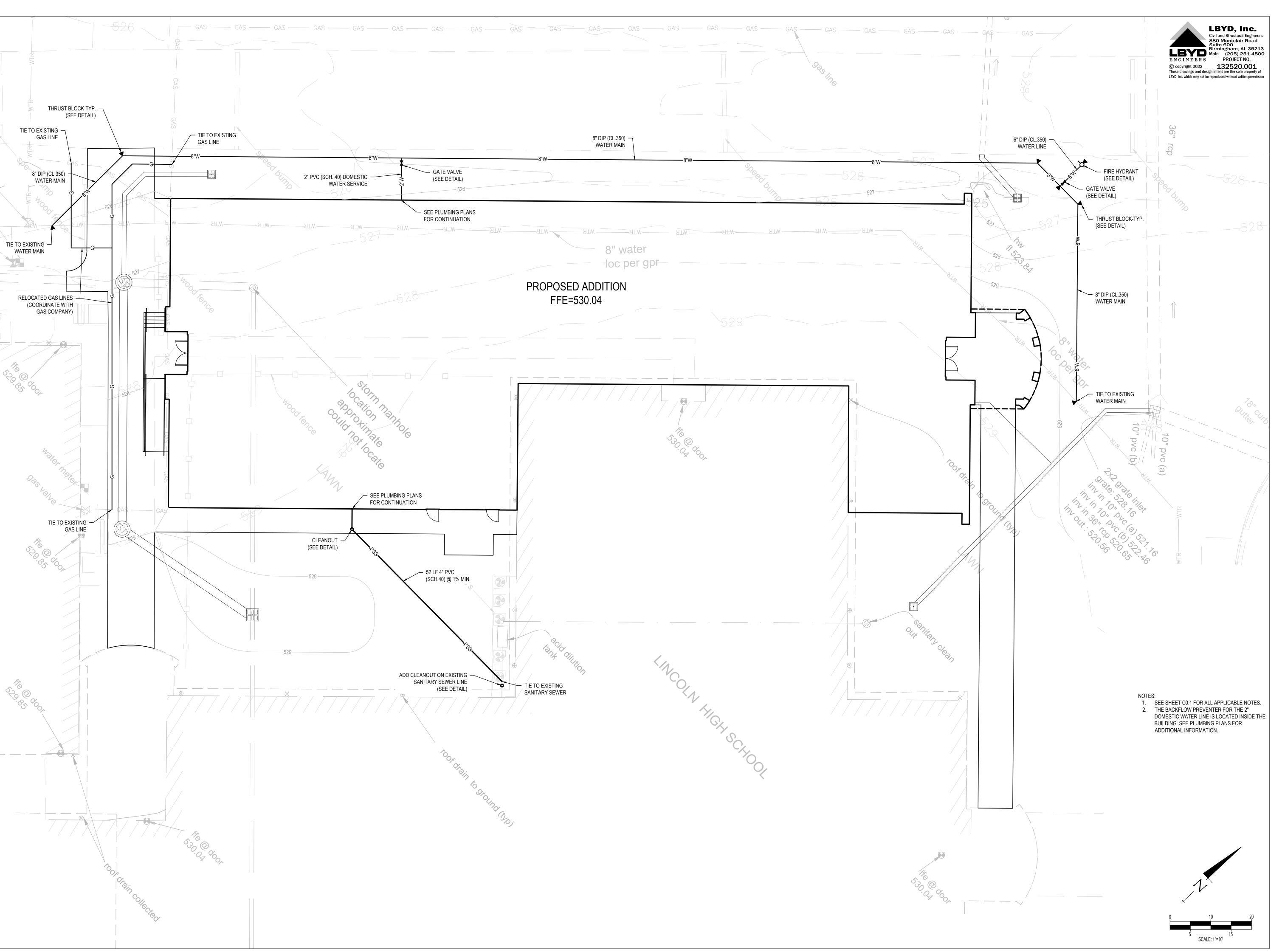
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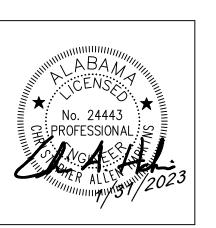
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5 OF 7

0 1" 2"







SHEET TITLE:
SITE UTILITY PLAN

PROJ. MGR.: CAH
DRAWN: LBH
DATE: JANUARY 31, 2023
REVISIONS

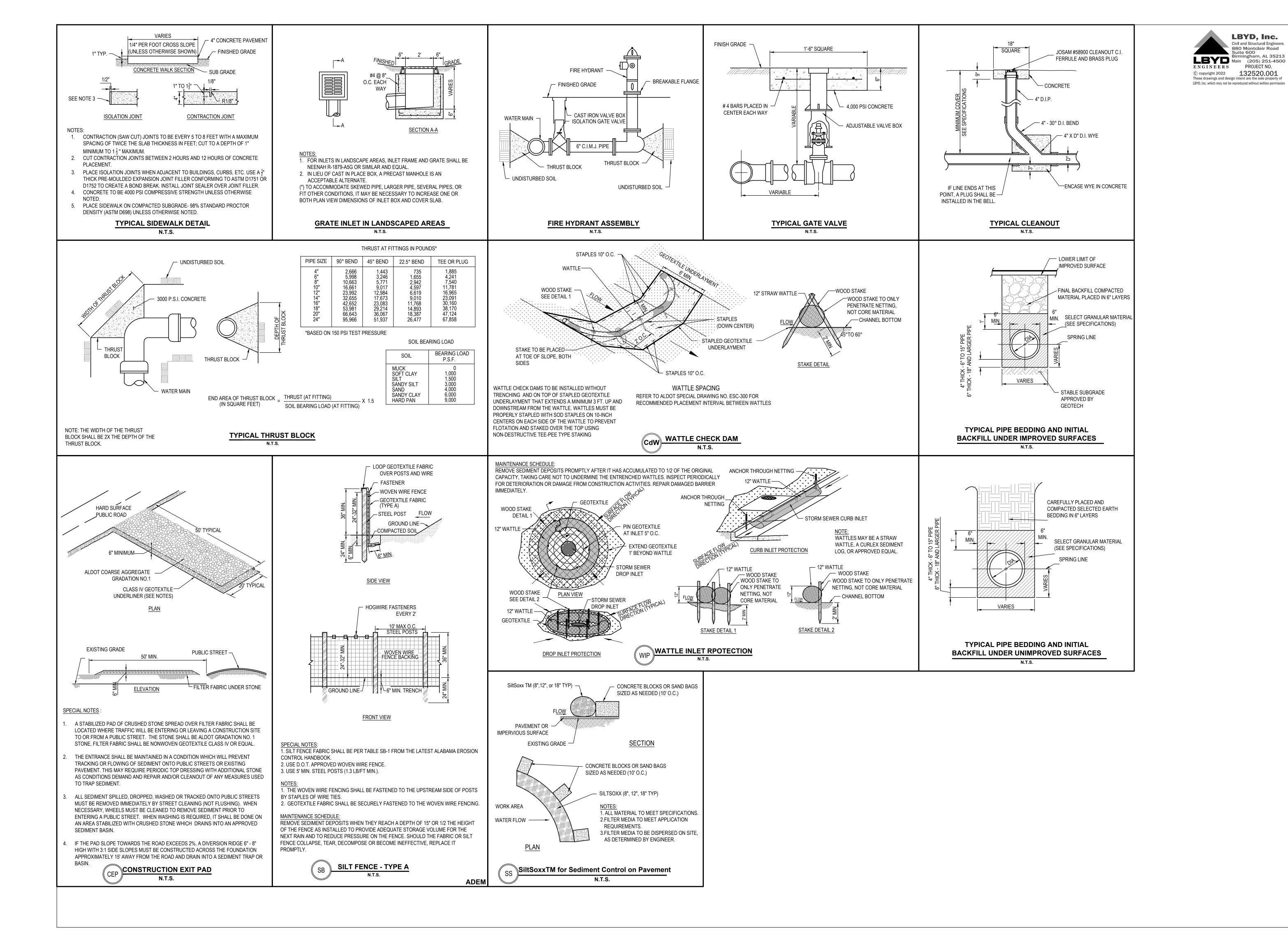
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0 1" 2"





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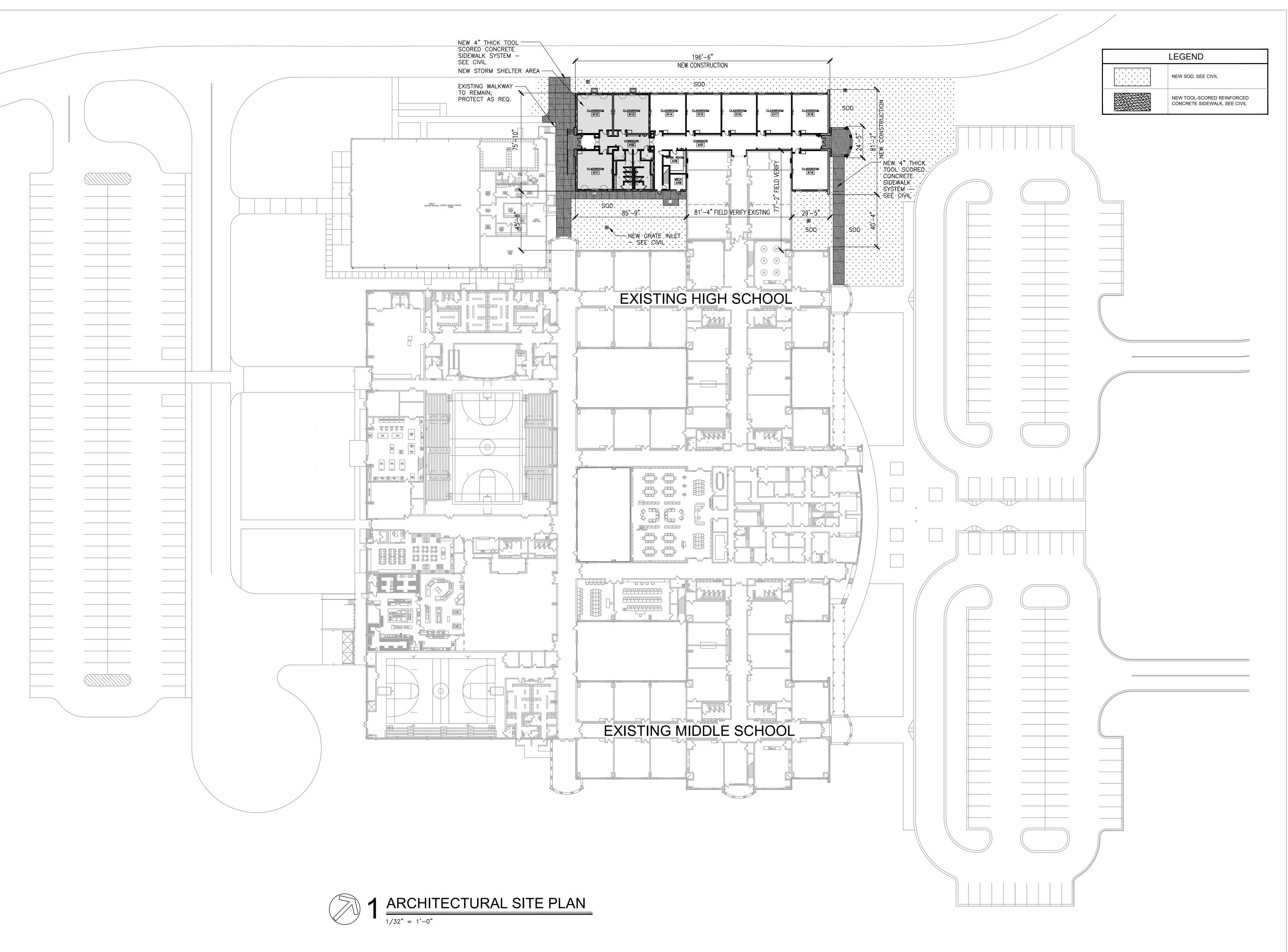
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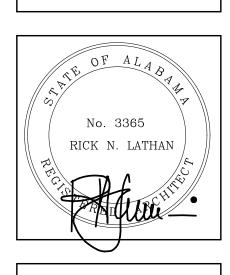
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PROJ. MGR.: DRAWN: DATE: JANUARY 31, 2023 REVISIONS

JOB NO. **22-20** SHEET NO: 7 OF 7







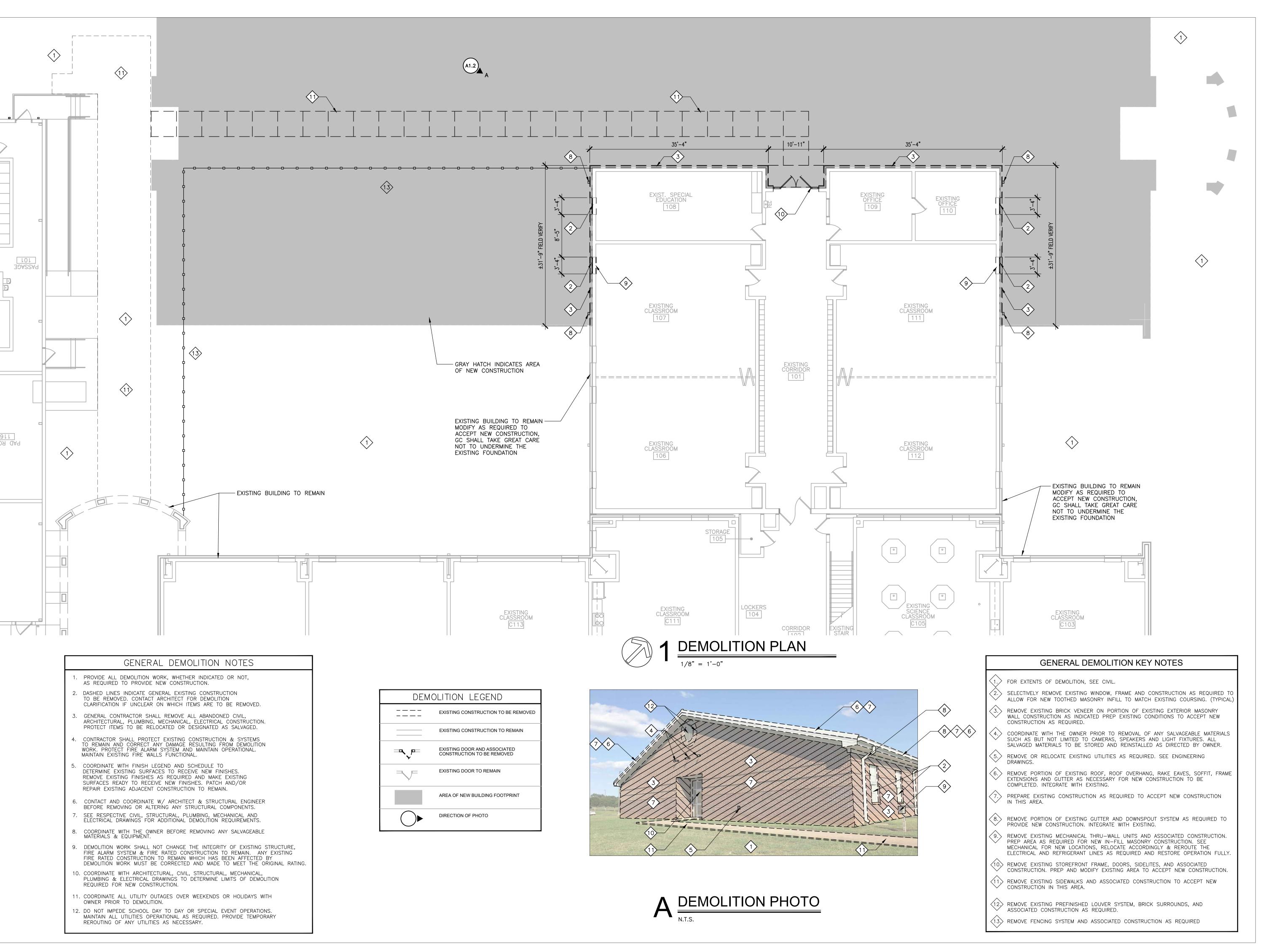


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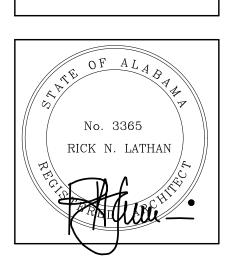
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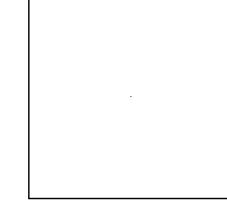
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SHEET TITLE:
DEMOLITION PLAN AND PHOTOS

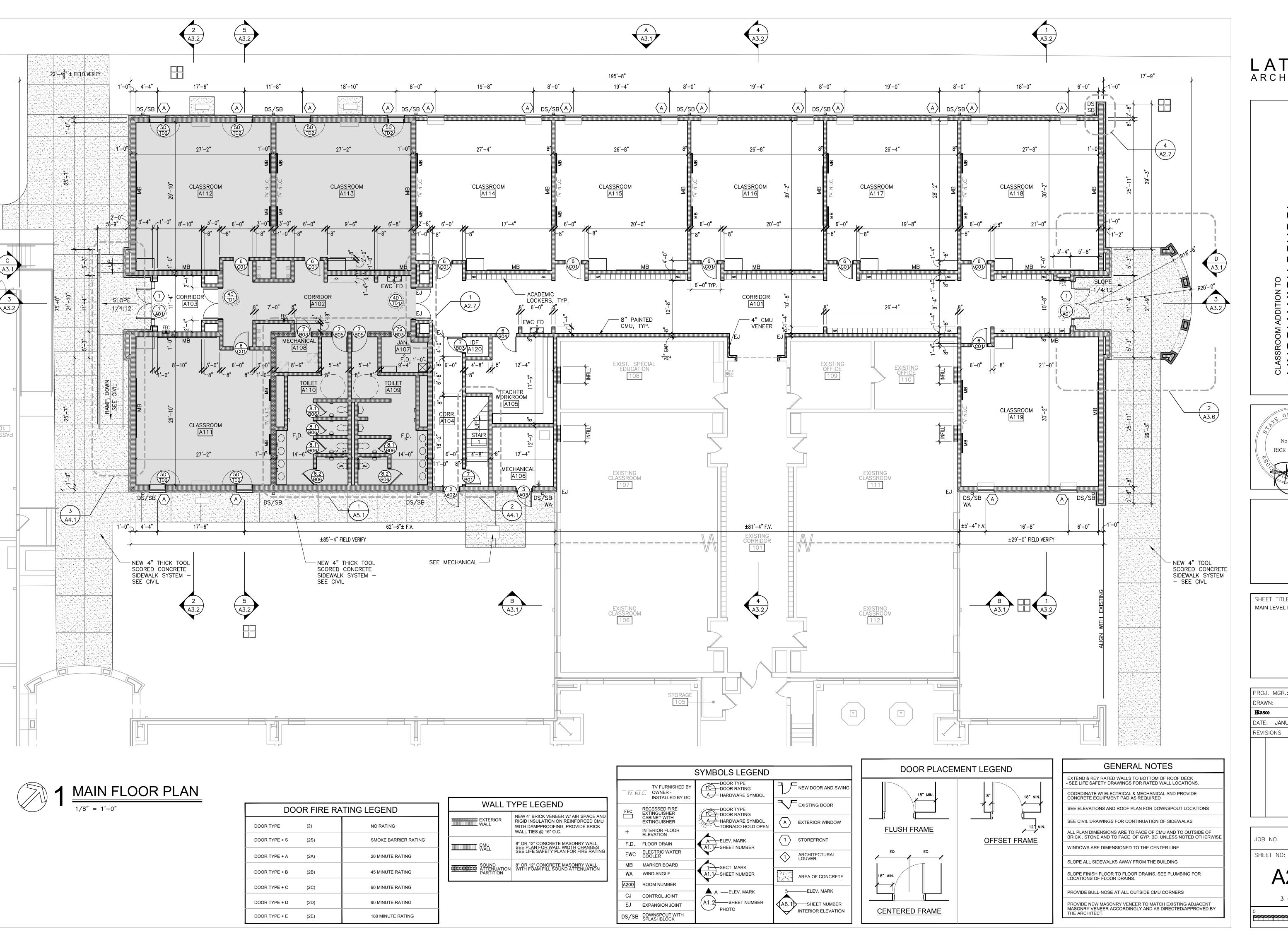
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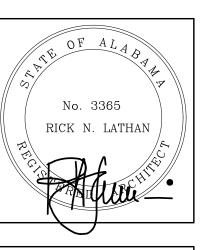
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0 1"



LATHAN ARCHITECTS

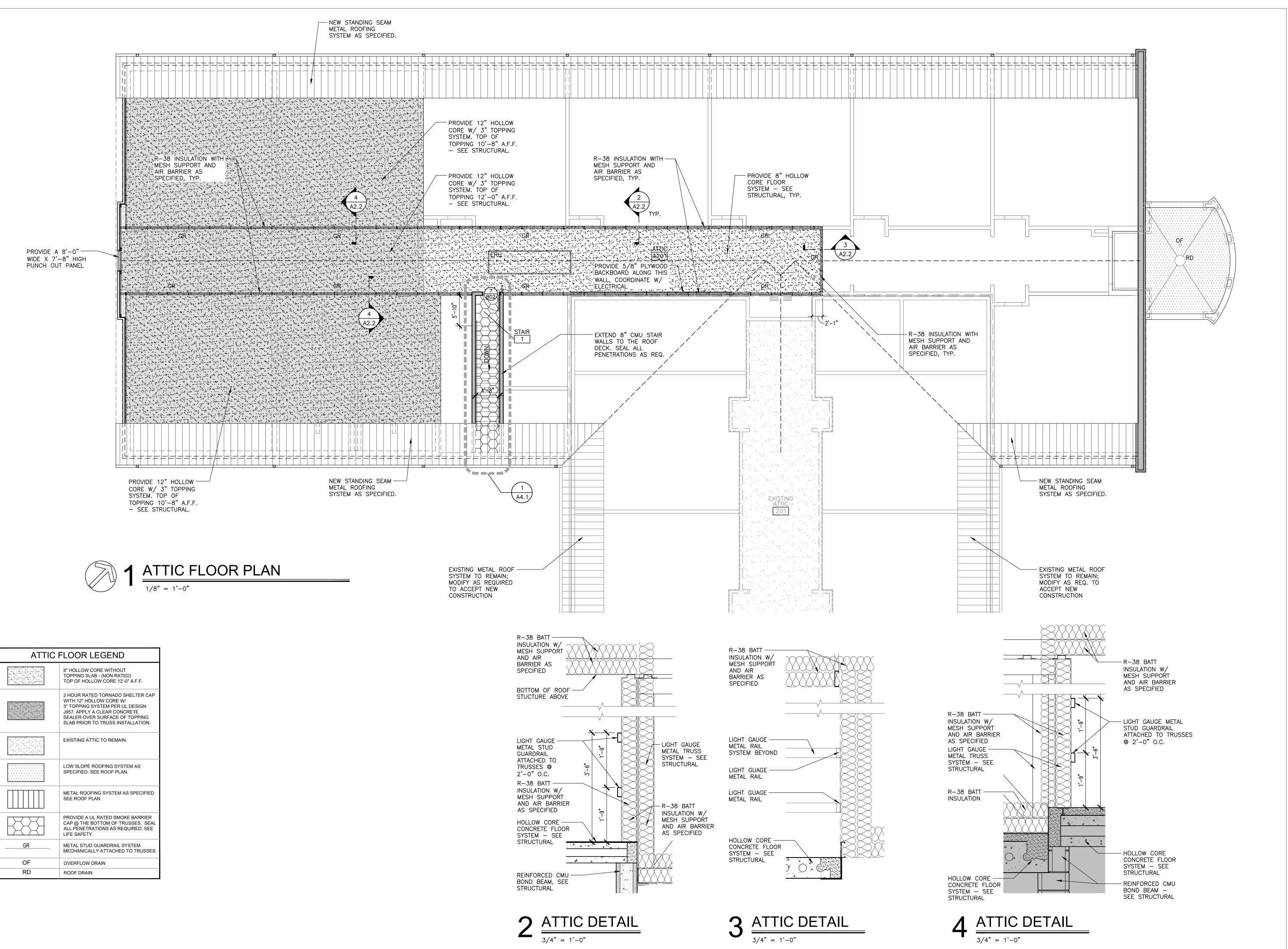


SHEET TITLE: MAIN LEVEL FLOOR PLAN

PROJ. MGR.: L. BRYANT DRAWN: PPh, EB DATE: JANUARY 31, 2023

JOB NO. **22-20**

3 OF 25

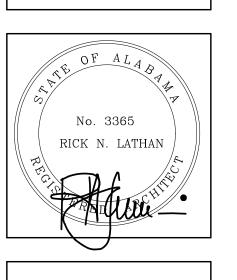




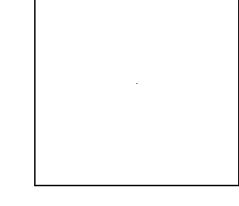
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IWAY 77, LINCOLN, ALABAMA 35096
OUNTY BOARD OF EDUCATION

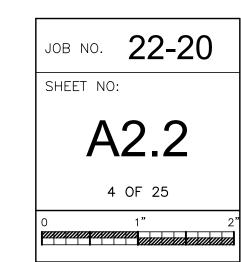


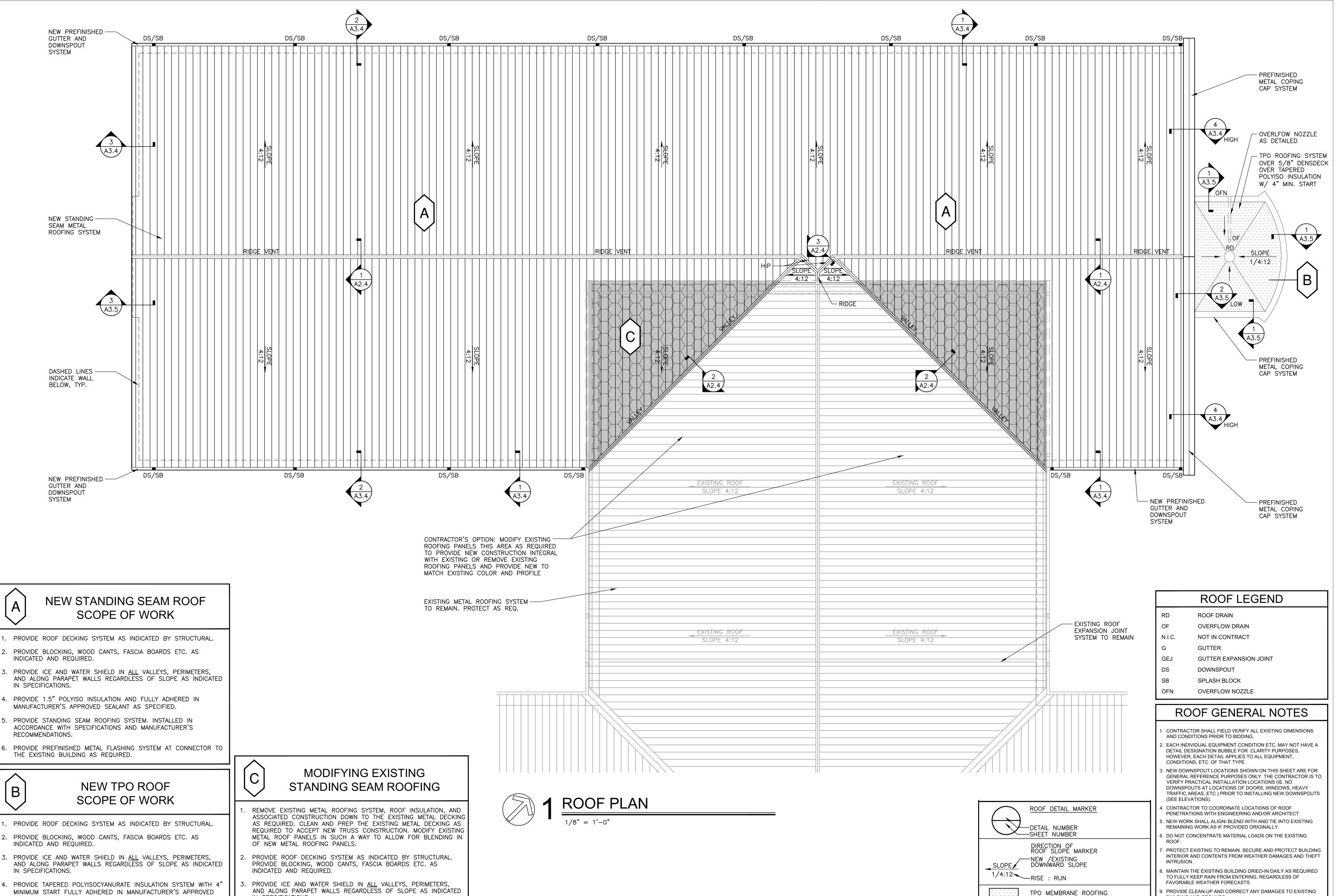
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SHEET TITLE:
ATTIC FLOOR PLAN

PROJ. M	GR.: L. BRYANT
DRAWN:	PPh & E.B.
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DATE: U	ANUARY 31, 2023
REVISION	S





IN SPECIFICATIONS.

4. PROVIDE 1.5" POLYISO INSULATION AND FULLY ADHERED IN

PROVIDE STANDING SEAM ROOFING SYSTEM AS SPECIFIED.

6. PROVIDE PREFINISHED METAL FLASHING SYSTEM AT CONNECTOR TO

INSTALLED IN ACCORDANCE WITH SPECIFICATIONS AND

MANUFACTURER'S RECOMMENDATIONS.

THE EXISTING BUILDING AS SPECIFIED.

MANUFACTURER'S APPROVED SEALANT AS SPECIFIED.

SEALANT AS SPECIFIED.

RECOMMENDATIONS.

5. PROVIDE 5/8" DENSGLASS COVER BOARD FULLY ADHERED IN

6. PROVIDE TPO ROOFING SYSTEM AS SPECIFIED. INSTALLED IN

ACCORDANCE WITH SPECIFICATIONS AND MANUFACTURER'S

PROVIDE PREFINISHED METAL FLASHING SYSTEM AT CONNECTOR TO

MANUFACTURER'S APPROVED SEALANT AS SPECIFIED.

THE EXISTING BUILDING AS REQUIRED.

LATHAN ARCHITECTS

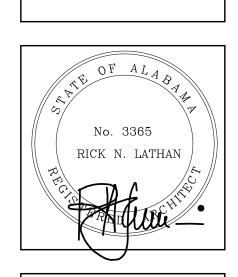
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AND TT, LINCOLN, ALABAMA 35096

JINTY BOARD OF EDUCATION

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SHEET TITLE:
ROOF PLAN AND ROOF
LEGENDS

PROJ. MGR.: L. BRYANT
DRAWN: PPh & E.B.

Rasco
DATE: JANUARY 31, 2023
REVISIONS

JOB NO. **22-20**

SHEET NO:

BUILDING AND GROUNDS.

COORDINATE WITH CIVIL.

COMPONENTS.

0. MODIFYING EXISTING ROOFING SYSTEM AS REQUIRED TO TIE

INTO AND BLEND INTO NEW ROOFING SYSTEM FOR A COMPLETE

AND WATERTIGHT ROOFING SYSTEM WITH NEW AND EXISTING

SEE MECHANICAL, PLUMBING, AND ELECTRICAL FOR ADDITIONAL

ROOF WORK AND PENETRATIONS; MAKE ALL PENETRATIONS

PROVIDE SPASH BLOCKS AT EACH DOWNSPOUT LOCATION.

WEATHERTIGHT UNDER ROOFING SCOPE OF WORK.

2. ALL DOWNSPOUTS TO EXIT ON GRADE UNLESS NOTED

SYSTEM

SYSTEM

PREFINISHED METAL STANDING SEAM ROOFING

EXISTING METAL ROOFING

EXISTING METAL ROOFING SYSTEM

TO BE REMOVED SEE NOTES

SYSTEM TO REMAIN

TPO ROOF SYSTEM R-VALUE

4" MINIMUM START TAPERED POLYISO INSULATION

INTERIOR AIR FILM (HEAT FLOW DOWN)

R.17

R.56

R23.6

R.92

R25.35

R.1

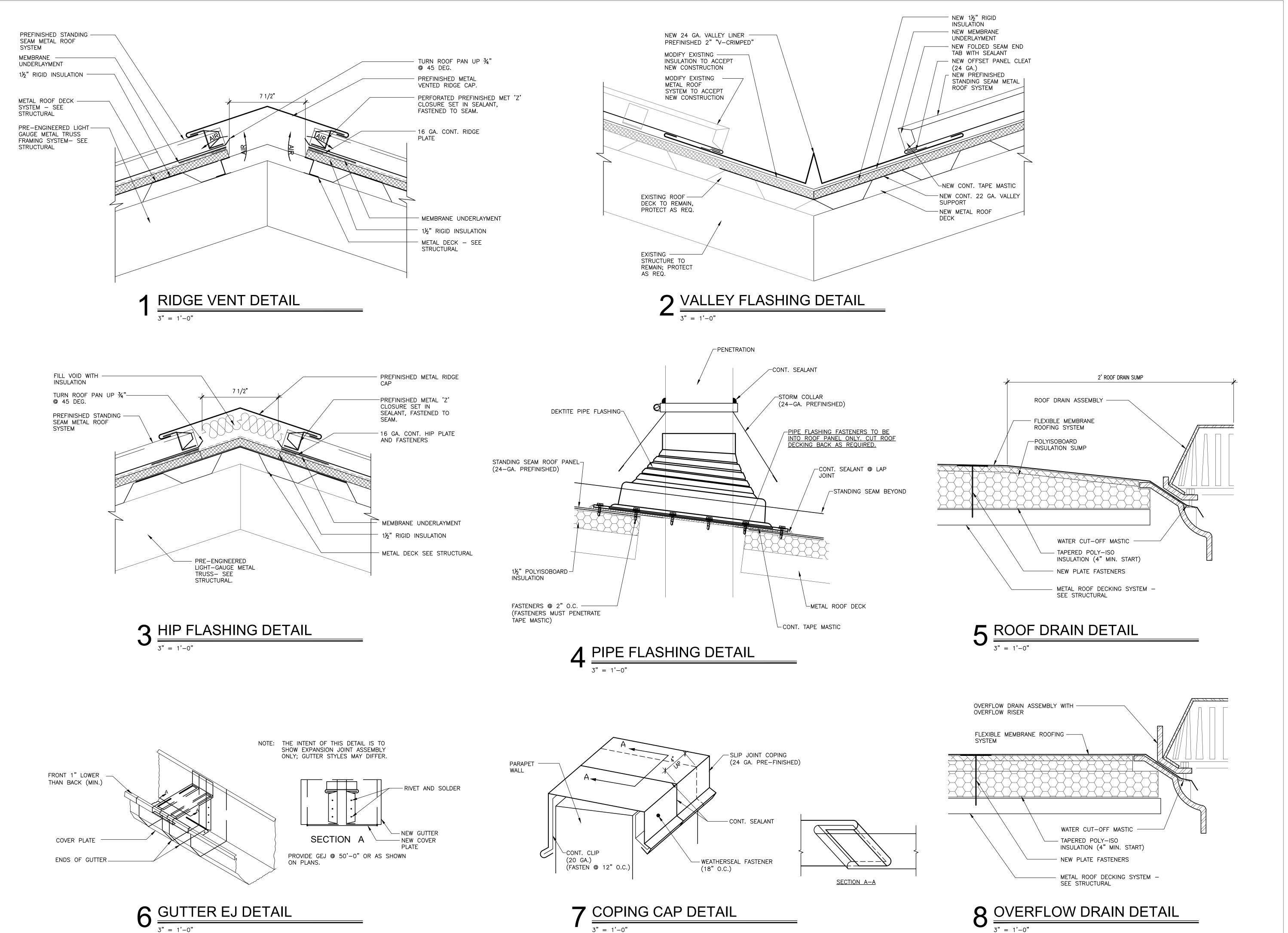
OUTSIDE AIR FILM

5/8" GYPSUM BOARD

TPO ROOFING

TOTAL R-VALUE

5 OF 25





DDITION TO

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NAY 77, LINCOLN, ALABAMA 35096

DUNTY BOARD OF EDUCATION

No. 3365
RICK N. LATHAN

CLASSROC LINC 78989 AL H TALLADEG

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SHEET TITLE:
TYPICAL ROOF DETAILS

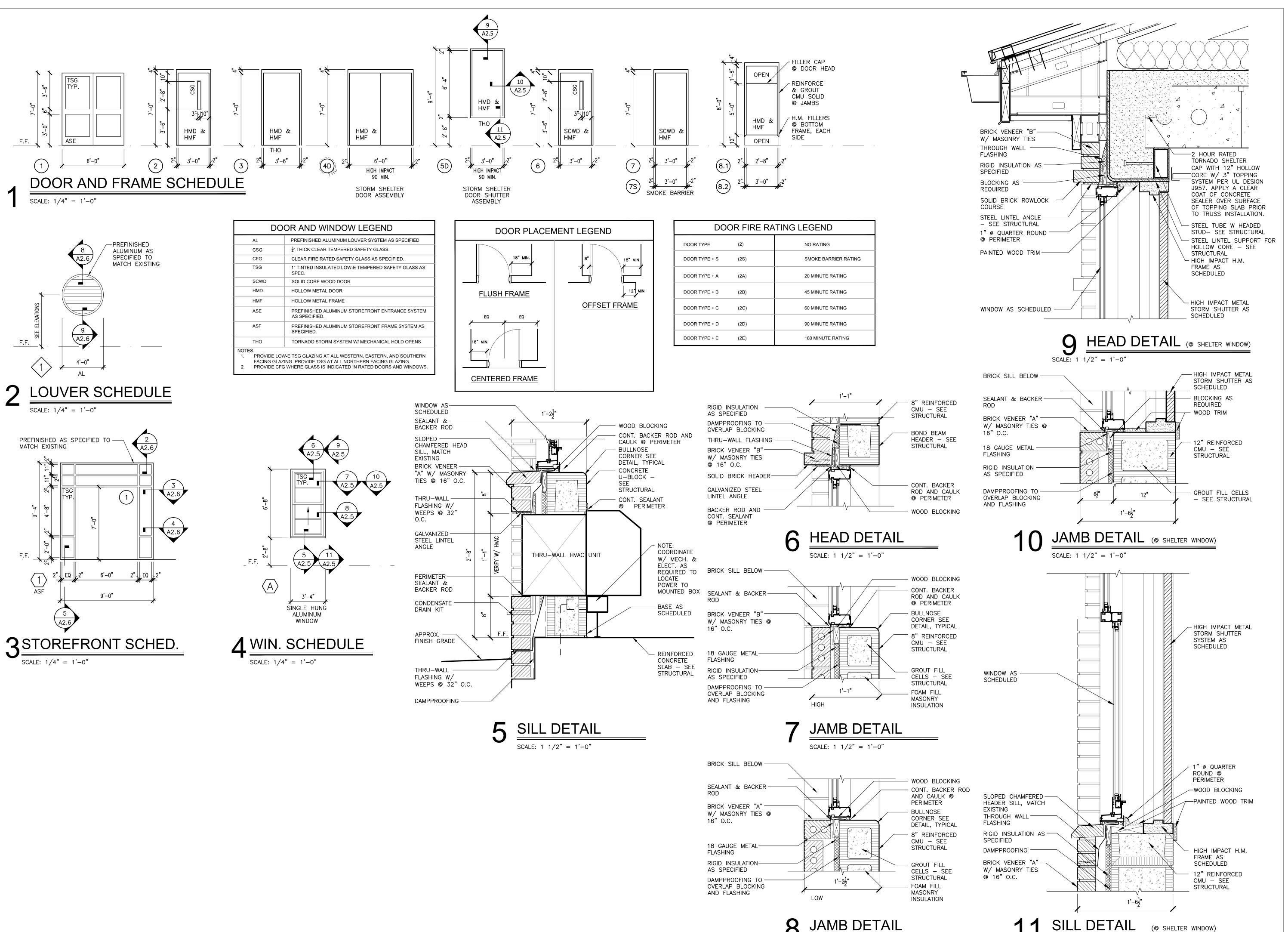
PROJ. MGR.: L. BRYANT
DRAWN: PPh & EB

Rasco
DATE: JANUARY 31, 2023
REVISIONS

JOB NO. 22-20
SHEET NO:

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LATHAN ARCHITECTS

HIGH SCHOOL
777, LINCOLN, ALABAMA 35096

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LINC 78989 AL H TALLADEG

No. 3365
RICK N. LATHAN

SHEET TITLE:

SHEET TITLE:
DOOR AND WINDOW
SCHEDULE AND DETAILS

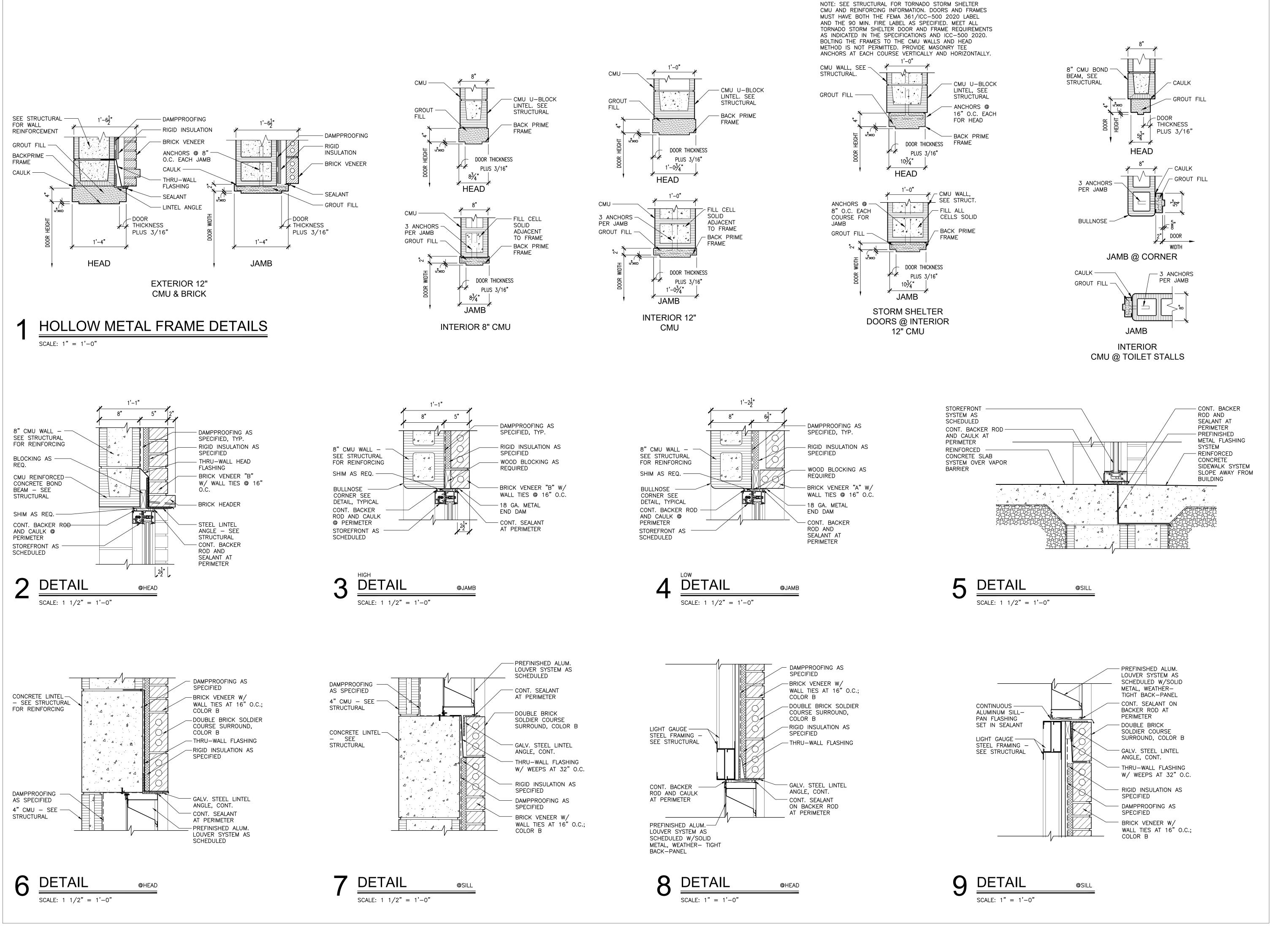
PROJ. MGR.: L. BRYANT
DRAWN: EB

Rasco
DATE: JANUARY 31, 2023
REVISIONS

JOB NO. **22-20**SHEET NO: **A2.5**7 OF 25

SCALE: $1 \frac{1}{2} = 1'-0''$

SCALE: $1 \frac{1}{2} = 1'-0"$





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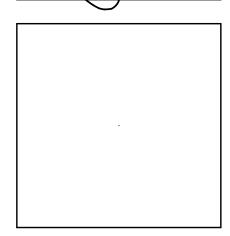
IGH SCHOOL

LINCOLN, ALABAMA 35096

SOARD OF EDUCATION

CLASSRO No. 3365 RICK N. LATHAN

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SHEET TITLE:
DOOR DETAILS

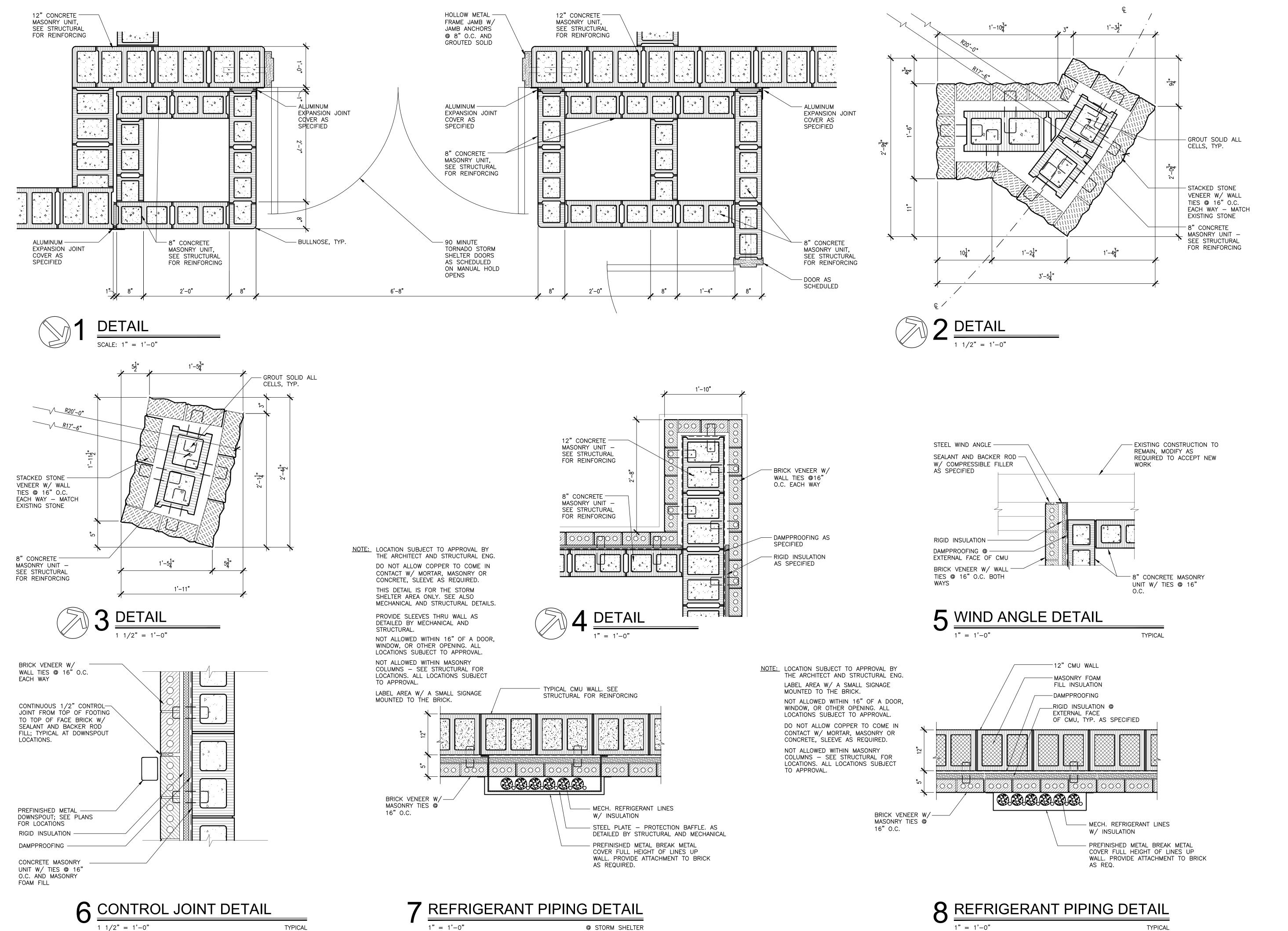
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JOB NO. 22-20

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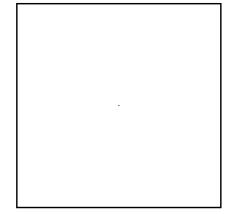
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8 OF 25





No. 3365
RICK N. LATHAN



SHEET TITLE:
PLAN DETAILS

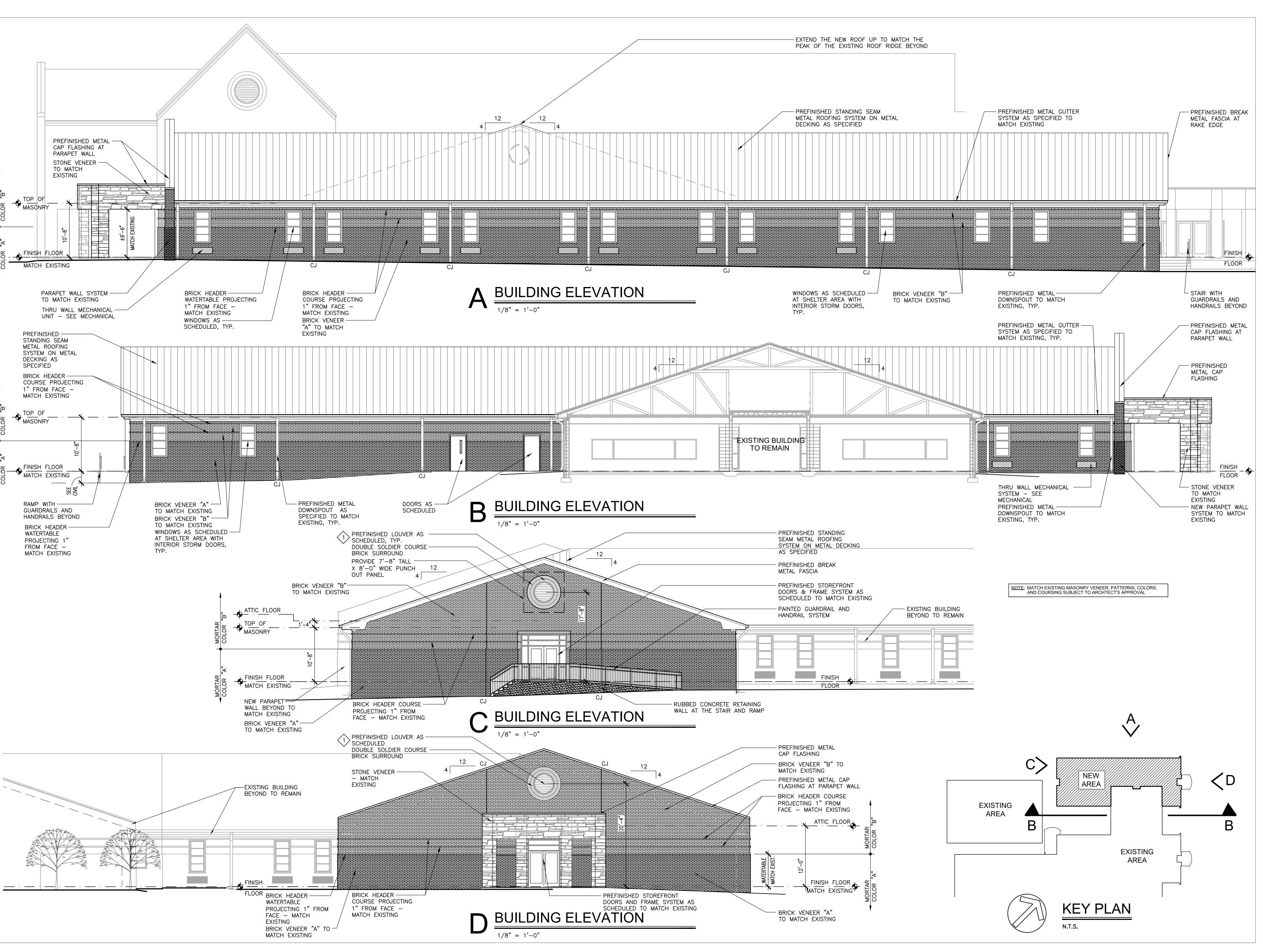
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DRAWN: EB

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DATE: JANUARY 31, 2023
REVISIONS

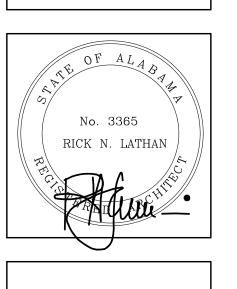
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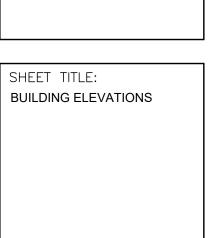
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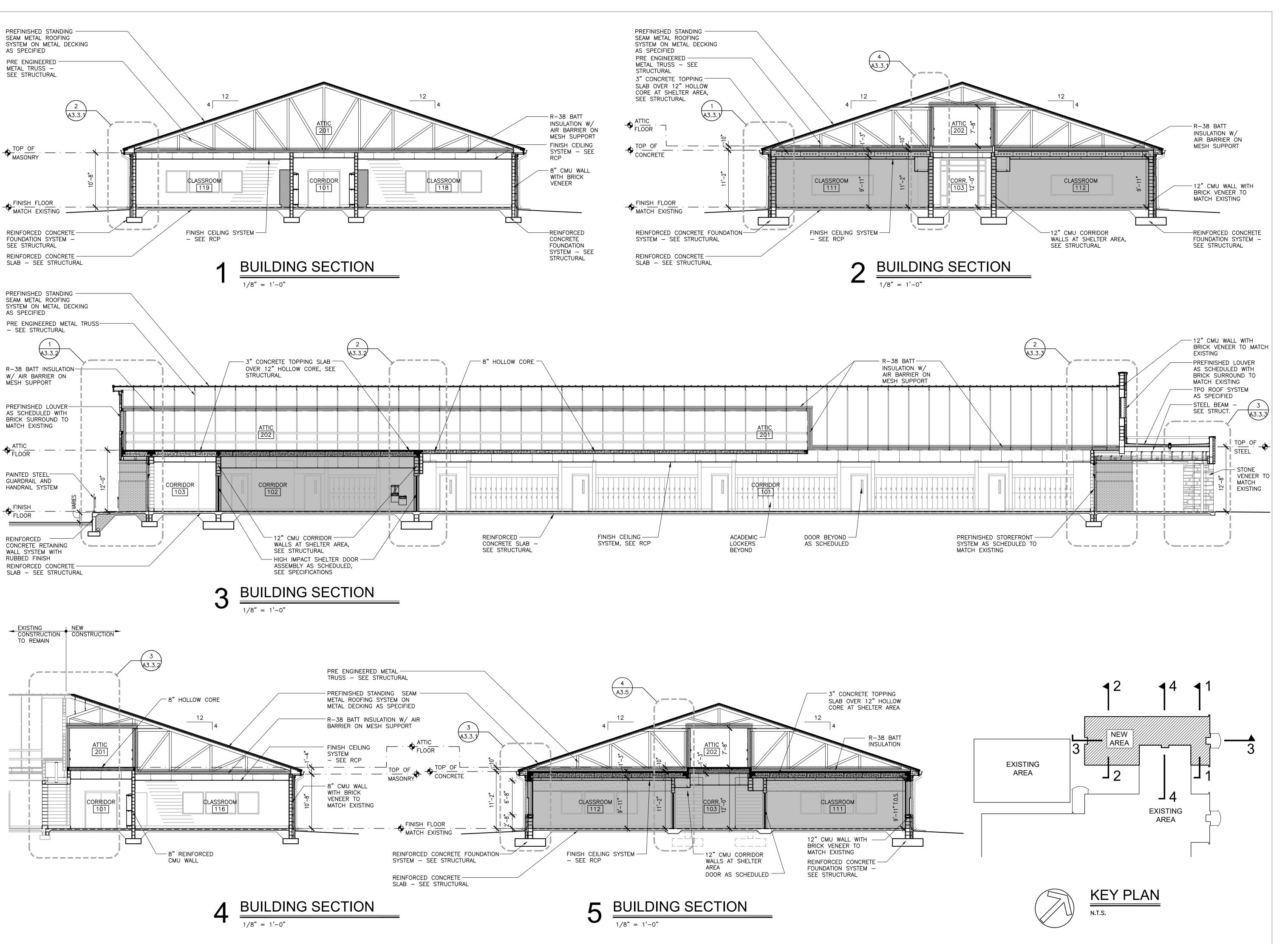
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JOB NO. 22-20

SHEET NO:

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No. 3365
RICK N. LATHAN

SHEET TITLE:
BUILDING SECTIONS

PROJ. MGR.: L. BRYANT

DRAWN: PPh

Rasco

DATE: JANUARY 31, 2023

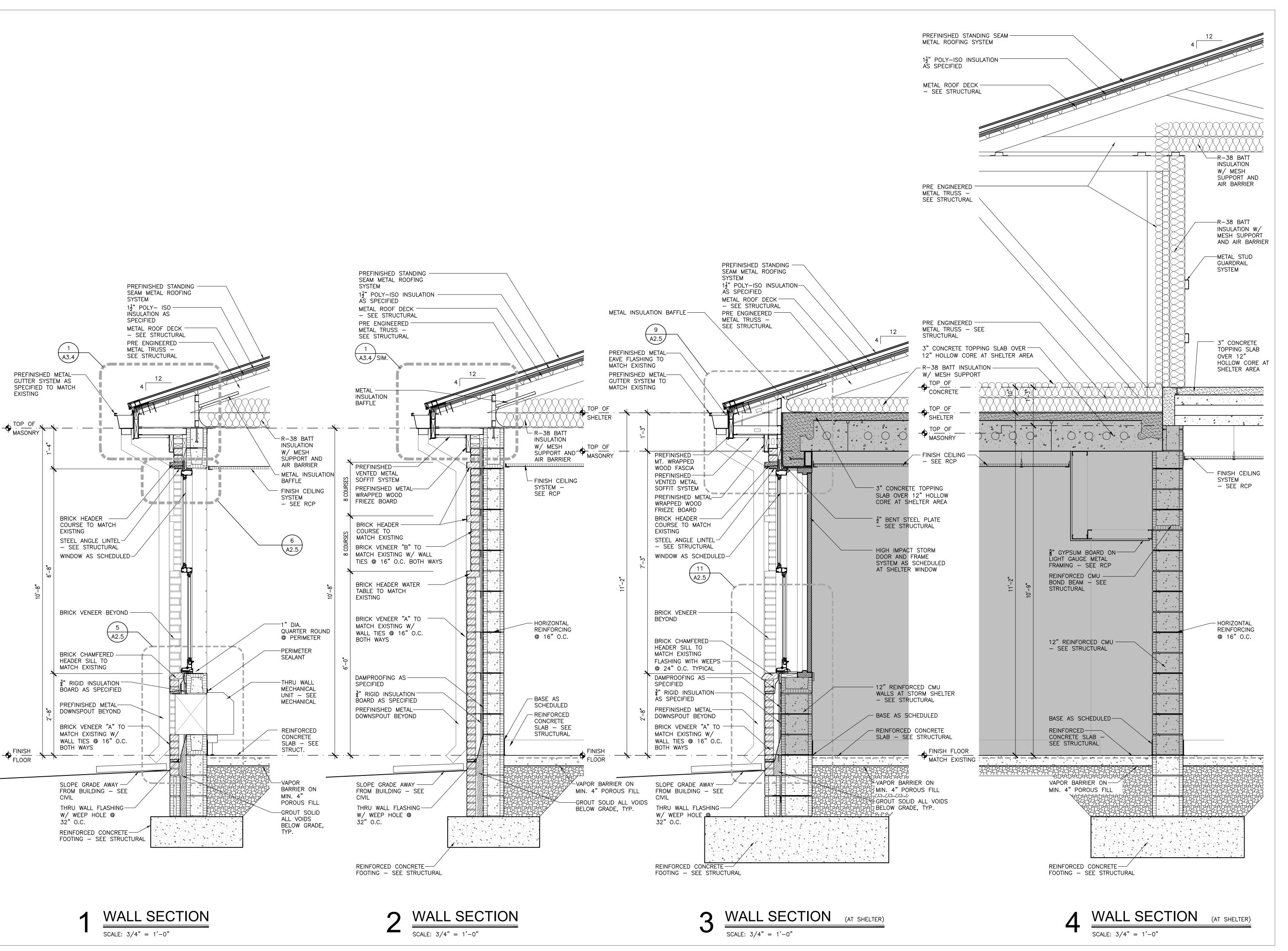
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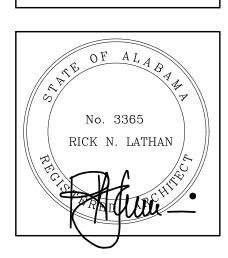
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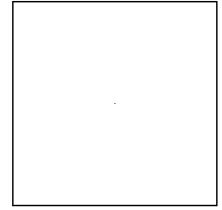
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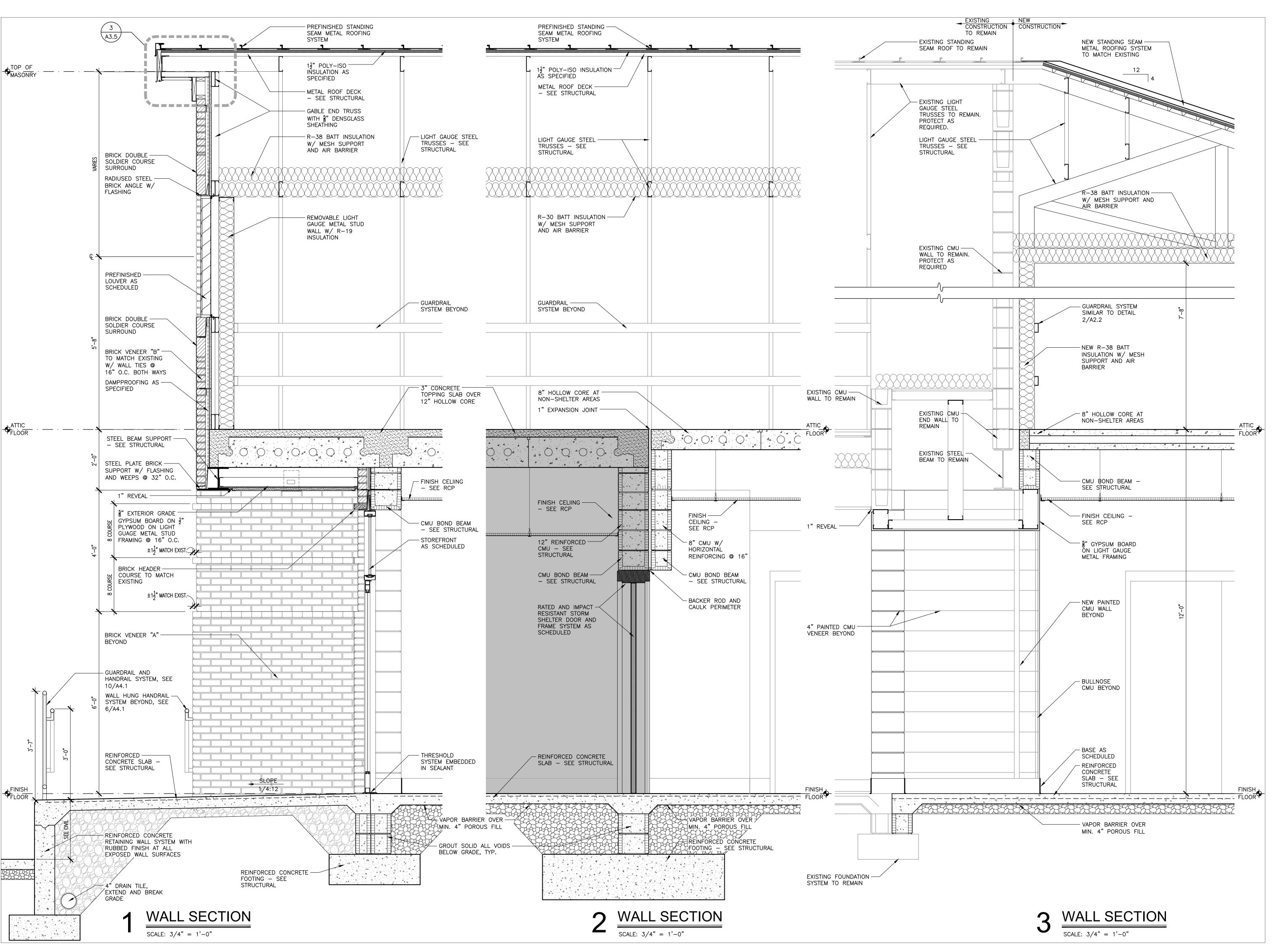
SHEET TITLE:
WALL SECTIONS

PROJ	. MGR.: L. BRYANT
DRAW	/N: PPh
Ras	co
DATE	: JANUARY 31, 2023
REVIS	SIONS

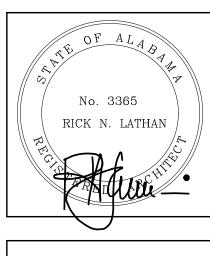
JOB NO. 22-20
SHEET NO:

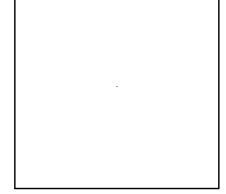
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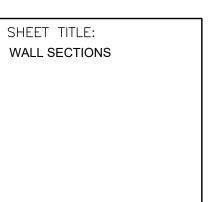
12 OF 25









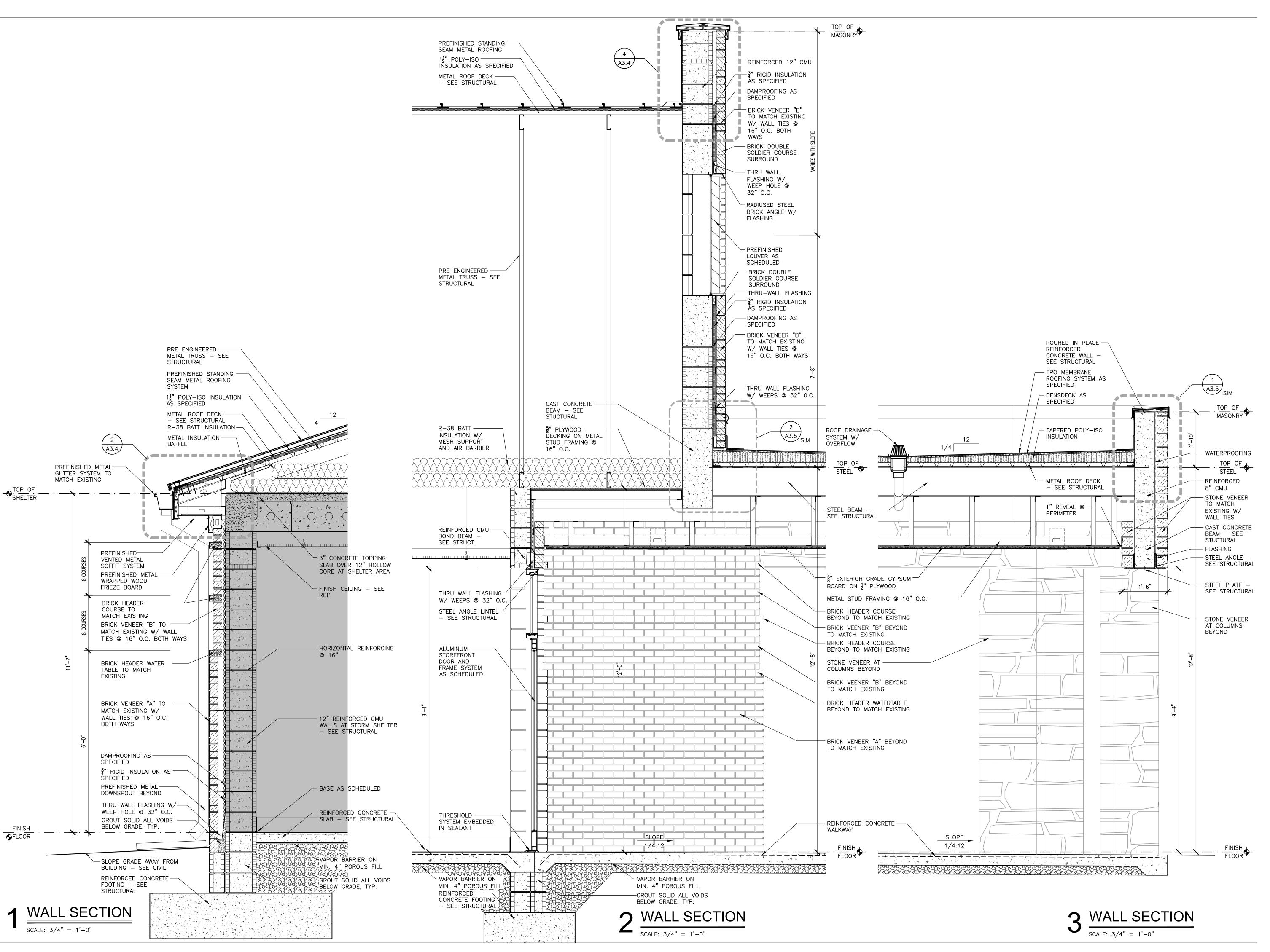


PROJ. MGR.: L. BRYANT
DRAWN: PPh
R asco
DATE: JANUARY 31, 2023
REVISIONS

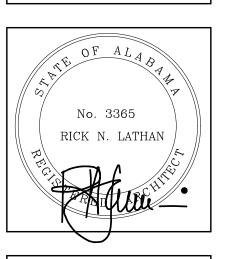
JOB NO. 22-20
SHEET NO:

A3.3.2

13 OF 25







SHEET TITLE:
WALL SECTIONS

WALL SECTIONS

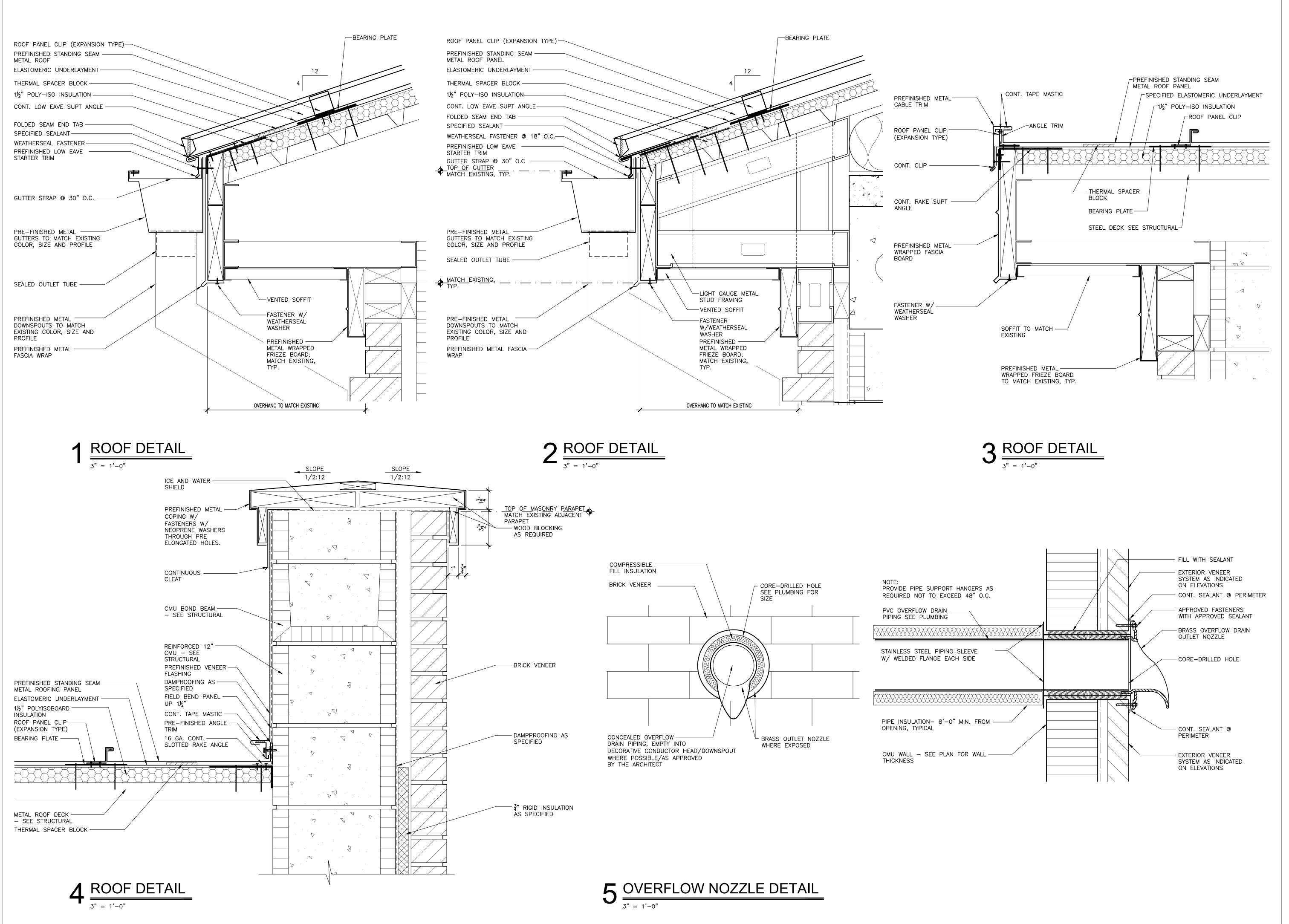
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PROJ. MGI	R.: L. BRYANT
DRAWN:	PPh, EB
R asco	
DATE: JA	NUARY 31, 2023
REVISIONS	

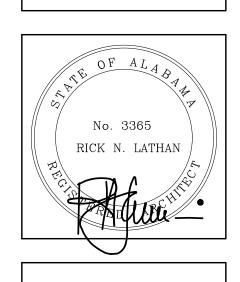
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SHEET NO:

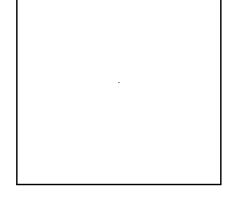
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SHEET TITLE:
DETAILS

PROJ.	MGR.: L. E	BRYAI	VT
DRAWN	l: EB		
R asco			
DATE:	JANUARY	31,	2023
REVISION	ONS		

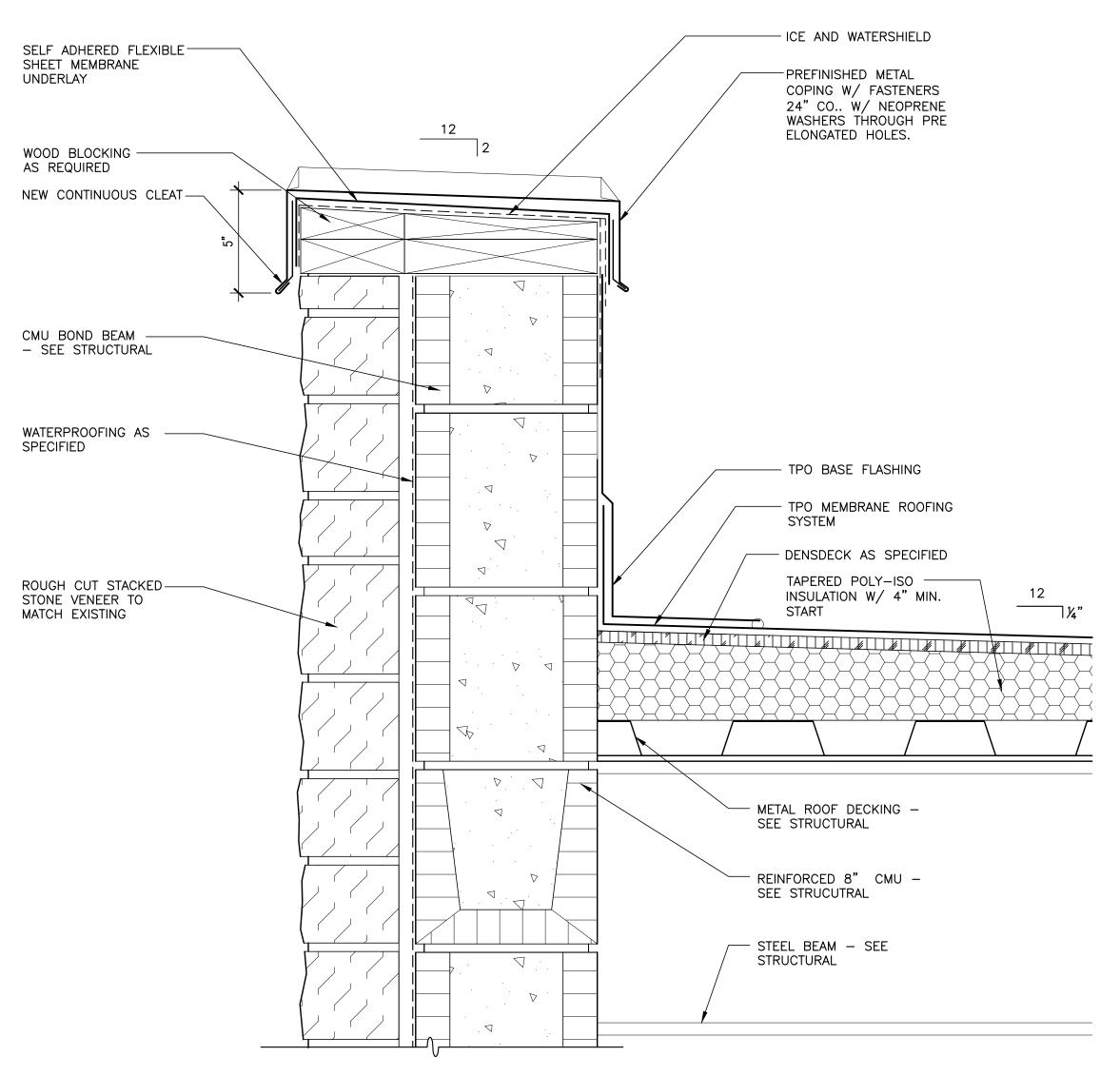
JOB NO. 22-20

SHEET NO:

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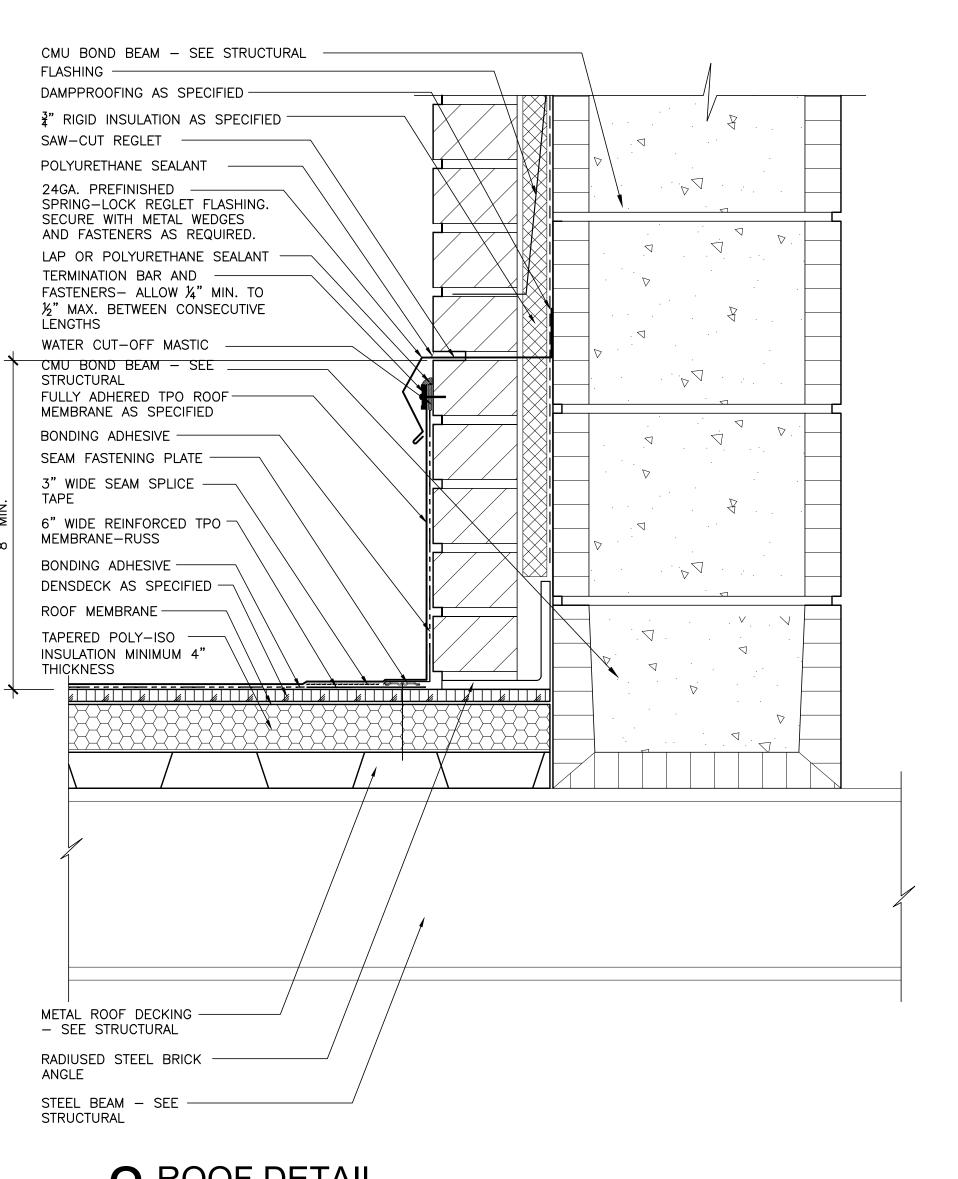
15 OF 25

0 1" 2

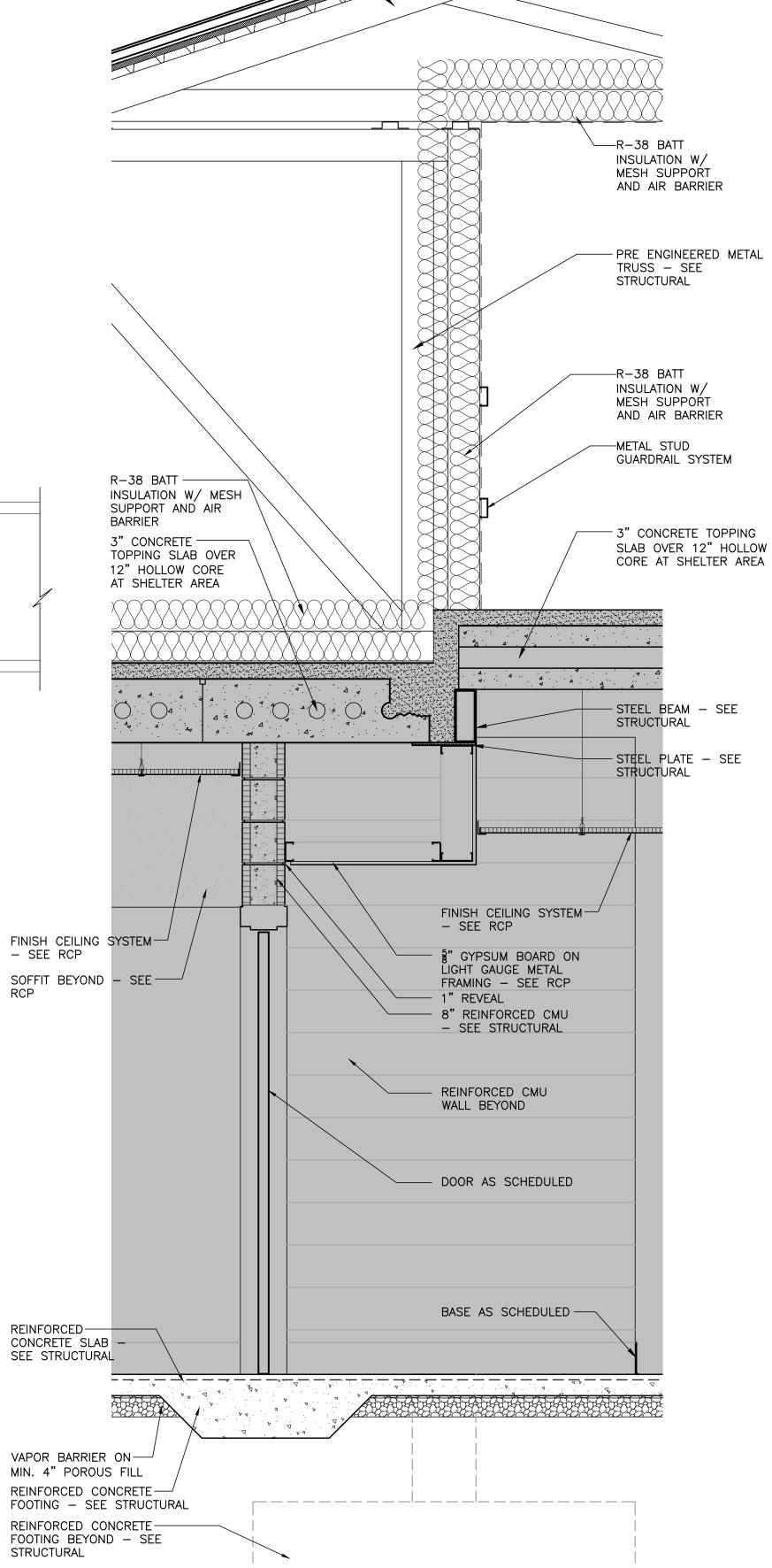


1 ROOF DETAIL

PREFINISHED STANDING SEAM METAL ROOF PANEL CONT. TAPE MASTIC SPECIFIED ELASTOMERIC UNDERLAYMENT PREFINISHED METAL-GABLE TRIM 厂1½" POLY-ISO INSULATION ROOF PANEL CLIP __ANGLE TRIM ROOF PANEL CLIP -(EXPANSION TYPE) CONT. CLIP -- THERMAL SPACER BLOCK CONT. RAKE SUPT ANGLE BEARING PLATE ---STEEL DECK SEE STRUCTURAL-PREFINISHED METAL WRAPPED FASCIA BOARD FASTENER W/ WEATHERSEAL WASHER PREFINISHED METAL WRAPPED FRIEZE BOARD 3 ROOF DETAIL



2 ROOF DETAIL



✓ WALL SECTION

3/4" = 1'-0"

(AT SHELTER)

PREFINISHED STANDING SEAM - METAL ROOFING SYSTEM

13" POLY-ISO INSULATION

PRE ENGINEERED METAL -

ÁS SPECIFIED

TRUSS — SEE STRUCTURAL

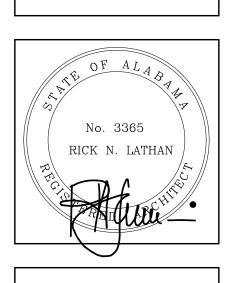
METAL ROOF DECK -

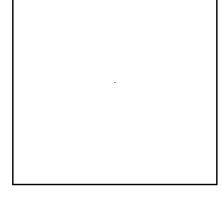
SEE STRUCTURAL



CLASSROOM ADDITION TO

LINCOLN HIGH SCHOOL
78989 AL HIGHWAY 77, LINCOLN, ALABAMA 35096
TALLADEGA COUNTY BOARD OF EDUCATION





SHEET TITLE:
DETAILS

PROJ. MGR.: L. BRYANT

DRAWN: EB

Rasco

DATE: JANUARY 31, 2023

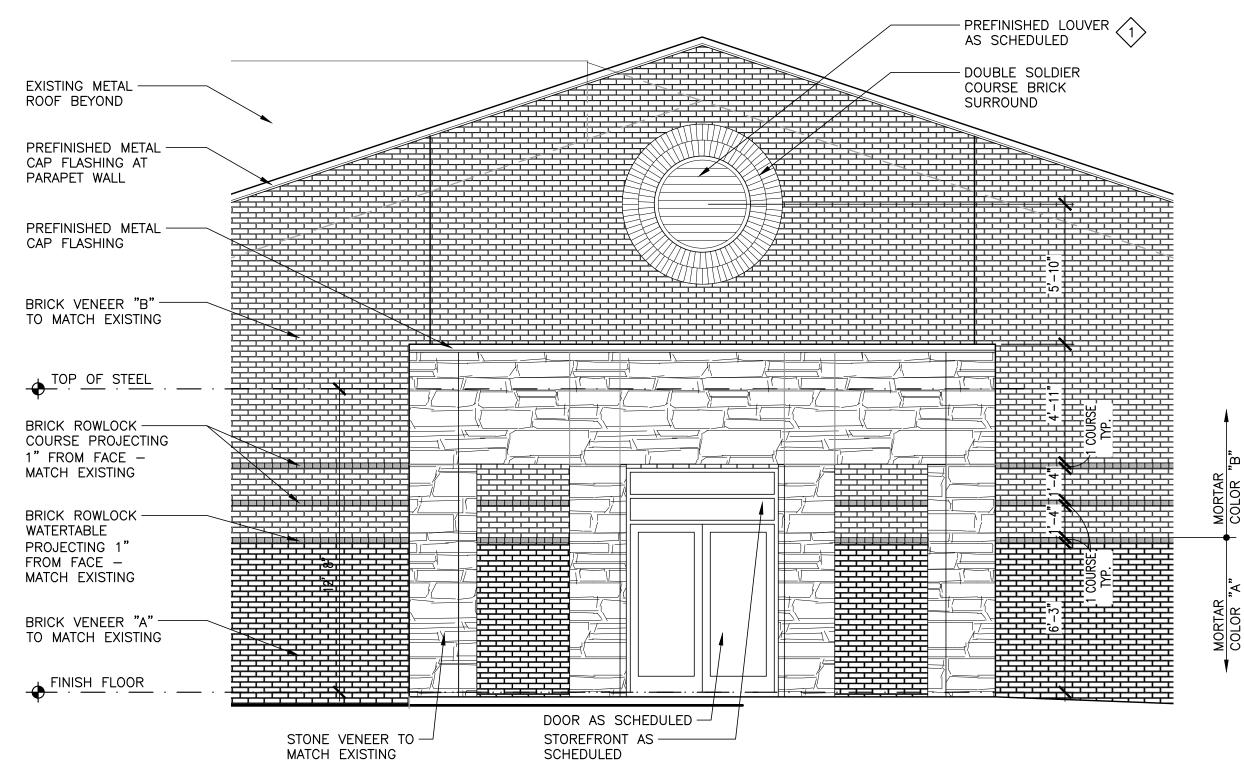
REVISIONS

JOB NO. 22-20

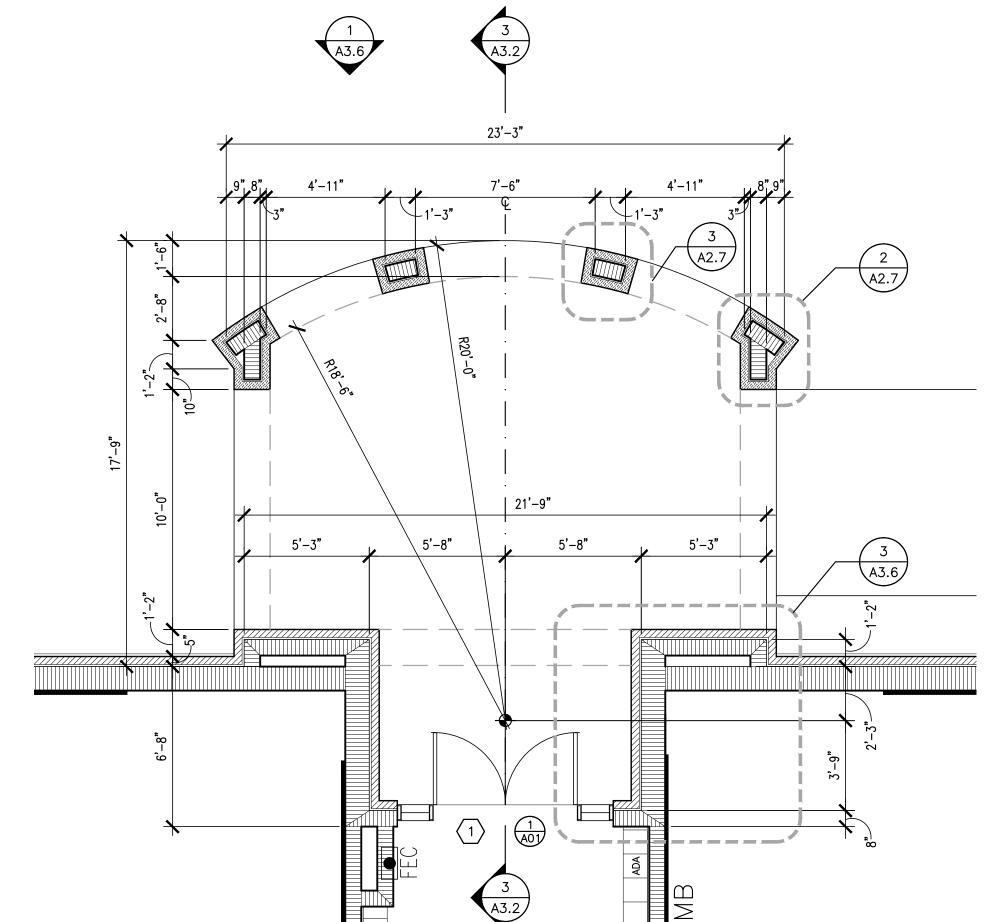
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A3.5

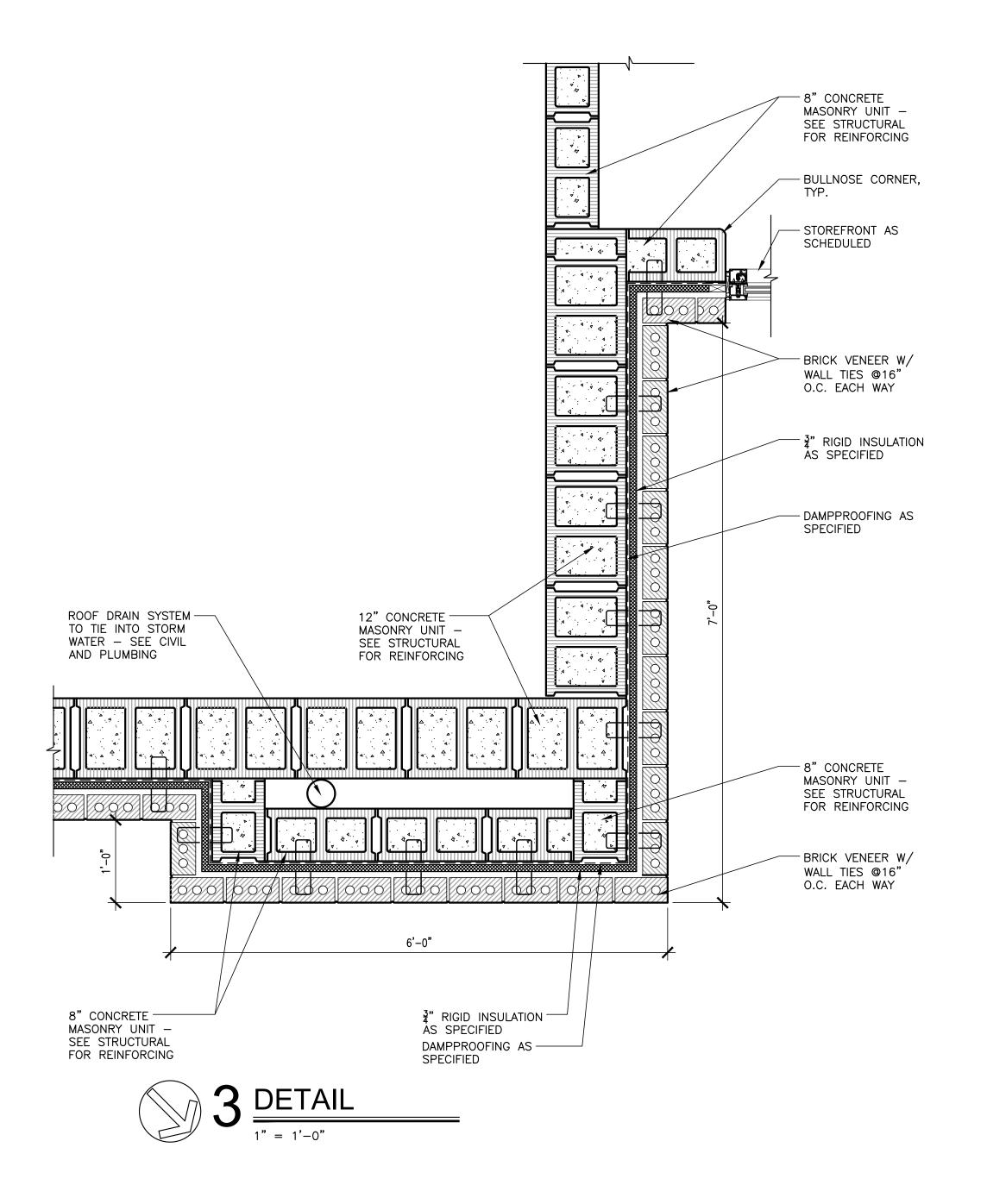
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1 ENLARGED ELEVATION 1/4" = 1'-0"





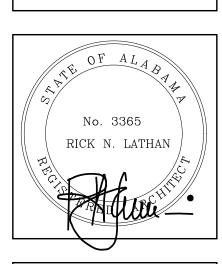


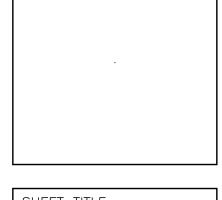
		SYMBOLS LEGEND	
- TV N.I	TV FURNISHED BY OWNER - INSTALLED BY GC	DOOR TYPE DOOR RATING A—HARDWARE SYMBOL	NEW DOOR AND SWING
FEC	RECESSED FIRE EXTINGUISHER	DOOR TYPE 10 DOOR RATING	EXISTING DOOR
	CABINET WITH EXTINGUISHER	HARDWARE SYMBOL TORNADO HOLD OPEN	A EXTERIOR WINDOW
+	INTERIOR FLOOR ELEVATION	<u> </u>	
F.D.	FLOOR DRAIN	A—ELEV. MARK A1.1—SHEET NUMBER	1 STOREFRONT
EWC	ELECTRIC WATER COOLER	3	ARCHITECTURAL LOUVER
MB	MARKER BOARD	1—SECT. MARK	V =====
WA	WIND ANGLE	A1.1 SHEET NUMBER	AREA OF CONCRETE
A200	ROOM NUMBER	•	[[[[[[[[[[[[[[[[[[[
CJ	CONTROL JOINT	A —ELEV. MARK	5——ELEV. MARK
EJ	EXPANSION JOINT	A1.2 SHEET NUMBER	A6.1 SHEET NUMBER
DS/SB	DOWNSPOUT WITH SPLASHBLOCK	_ 111010	INTERIOR ELEVATION



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TALLADEGA COUNTY BOARD OF EDUCATION





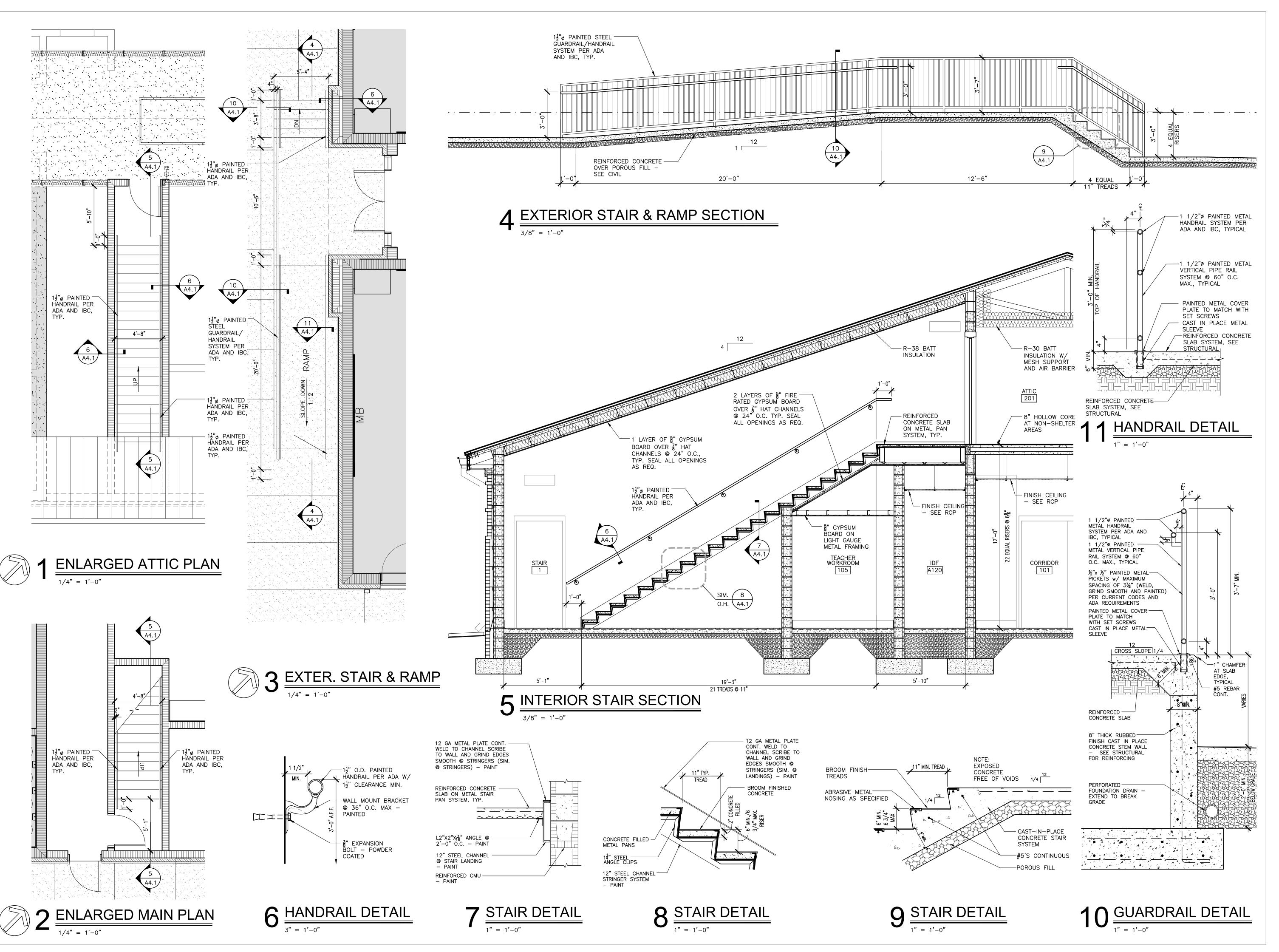
SHEET TITLE:
ENLARGED ENTRY PLAN,
ELEVATIONS AND DETAILS

PROJ.	MGR.: L. BRYANT
DRAWN	N: PPh, EB
IR asco	
DATE:	JANUARY 31, 2023
REVISI	ONS

JOB NO. **22-20**SHEET NO:

A3.6

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No. 3365
RICK N. LATHAN

SHEET TITLE:
STAIR PLANS, SECTIONS
AND DETAILS

PROJ. MGR.: L. BRYANT

DRAWN: PPh, EB

Rasco

DATE: JANUARY 31, 2023

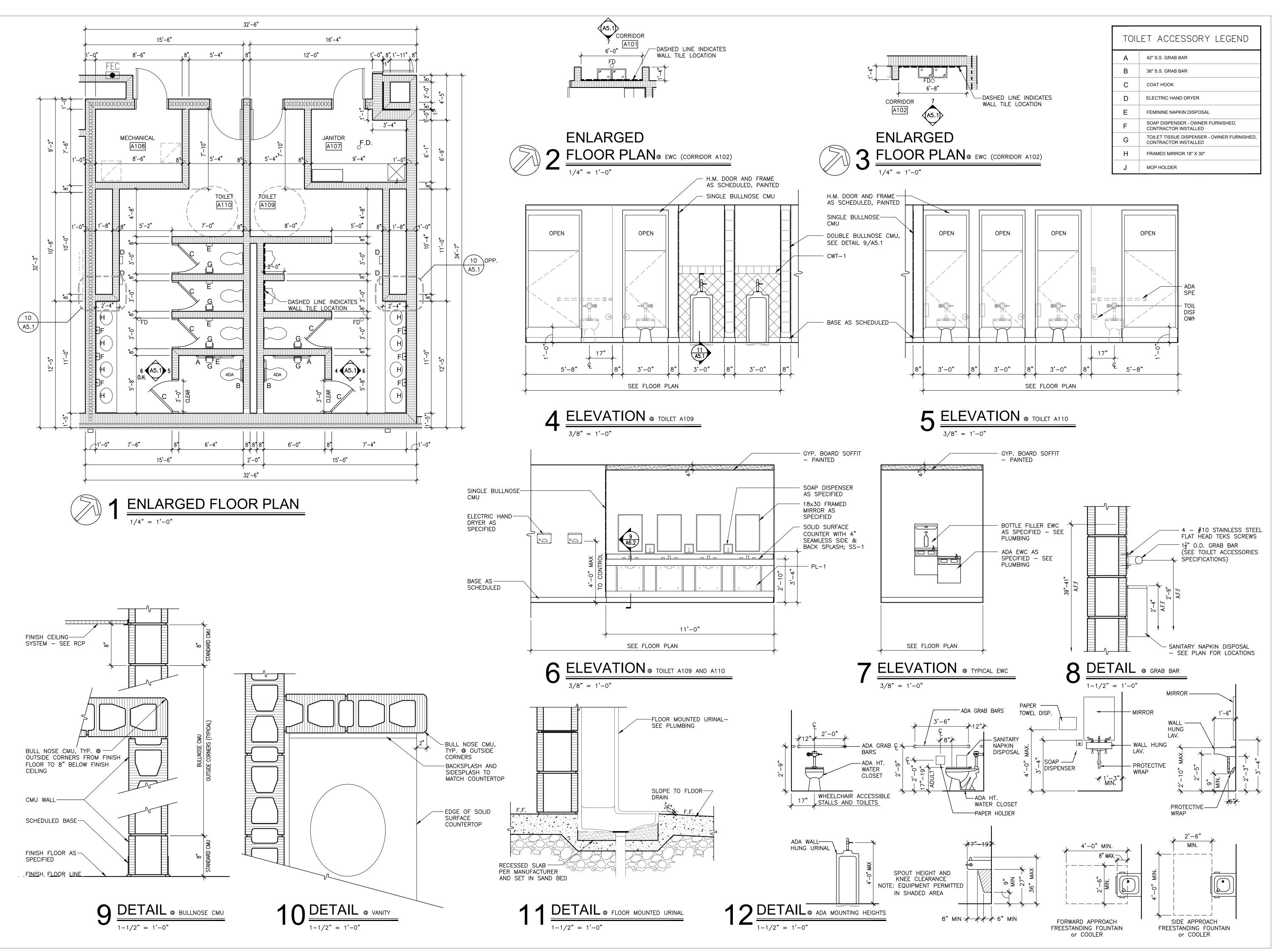
REVISIONS

JOB NO. 22-20

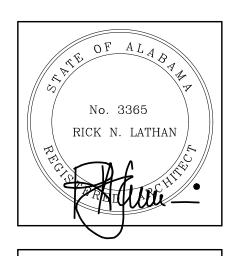
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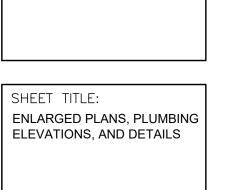
A4.1

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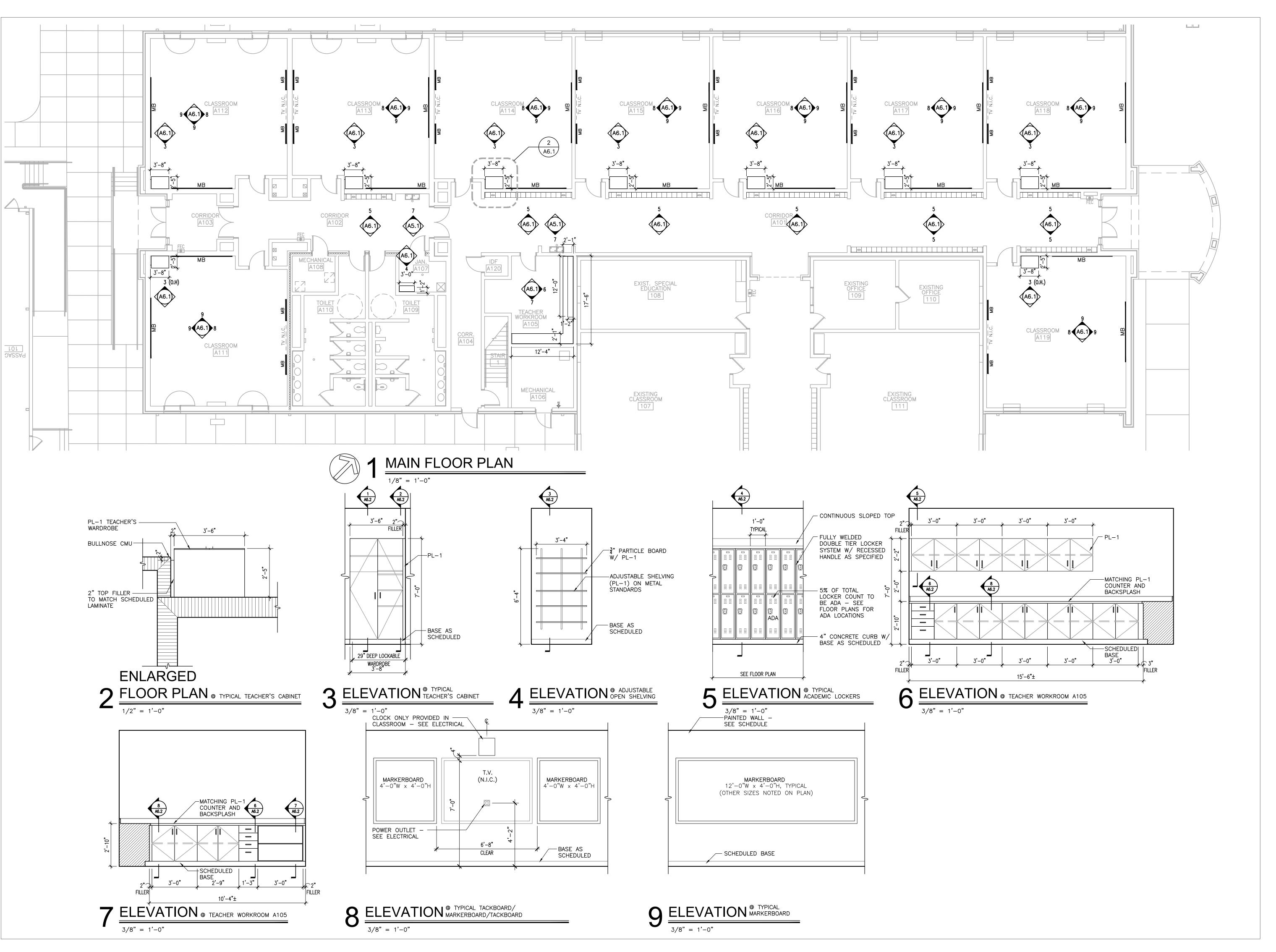
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DRAWN: CRB
R asco
DATE: JANUARY 31, 2023
REVISIONS

JOB NO. 22-20

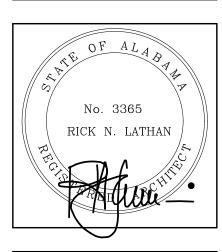
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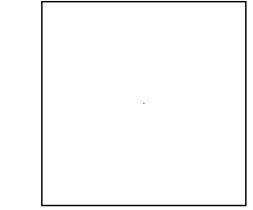
A5.1

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SHEET TITLE:
CASEWORK PLAN AND
ELEVATIONS

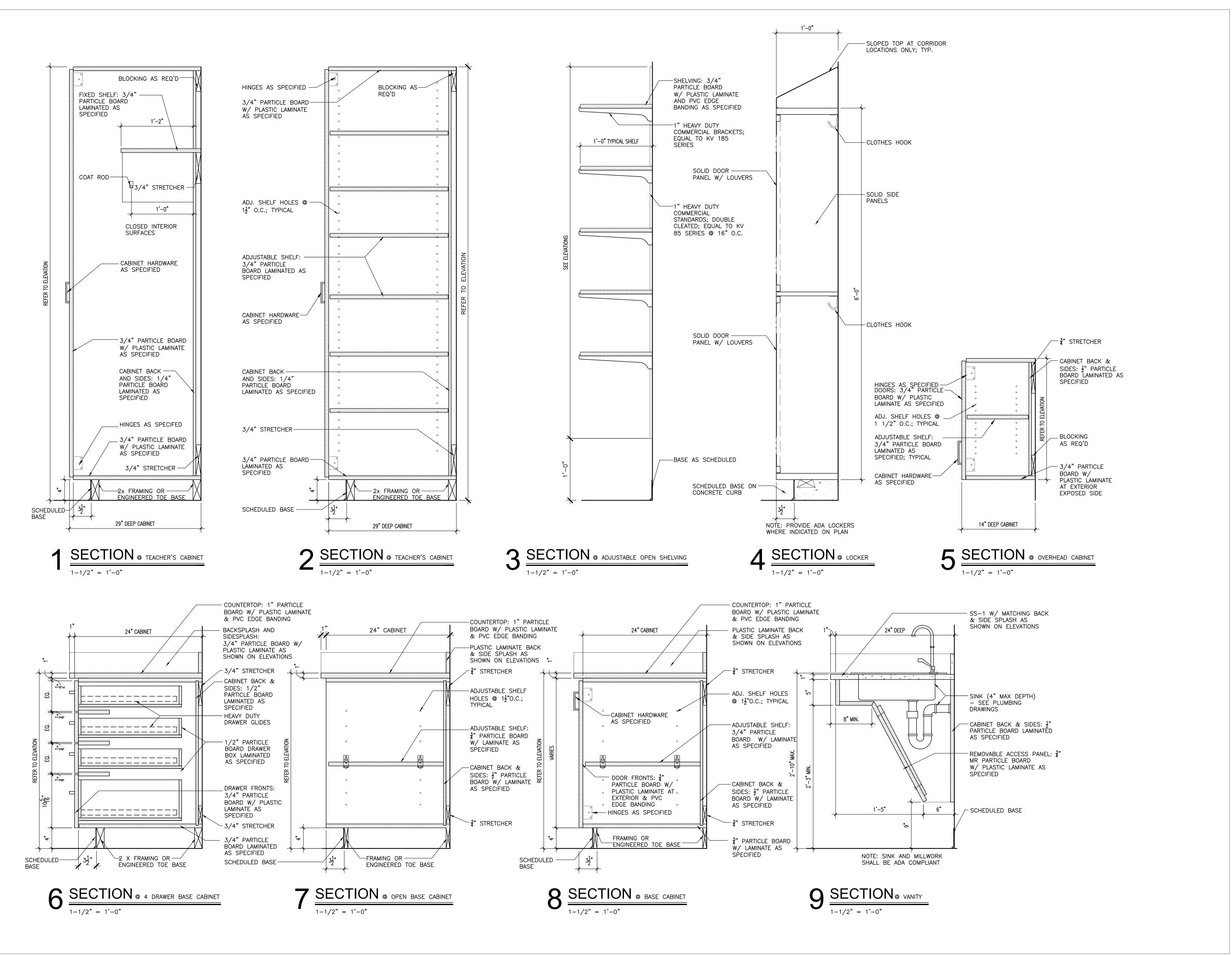
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DRAWN	N: CRB
R asco	
DATE:	JANUARY 31, 2023
REVISI	ONS

JOB NO. 22-20

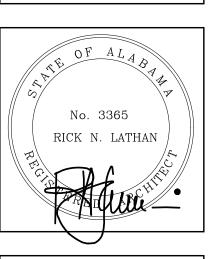
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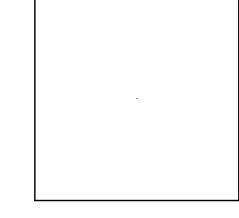
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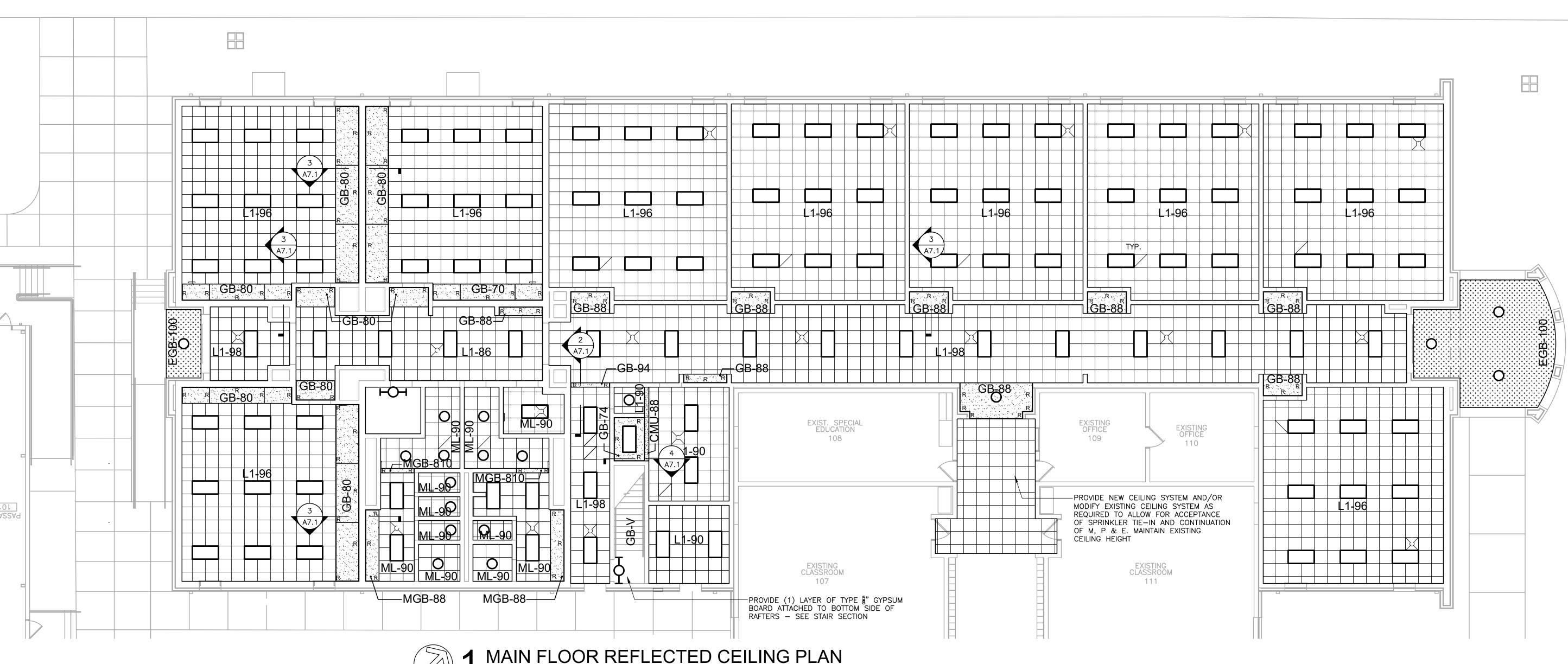
SHEET TITLE:
CASEWORK SECTIONS

JOB NO. 22-20
SHEET NO:

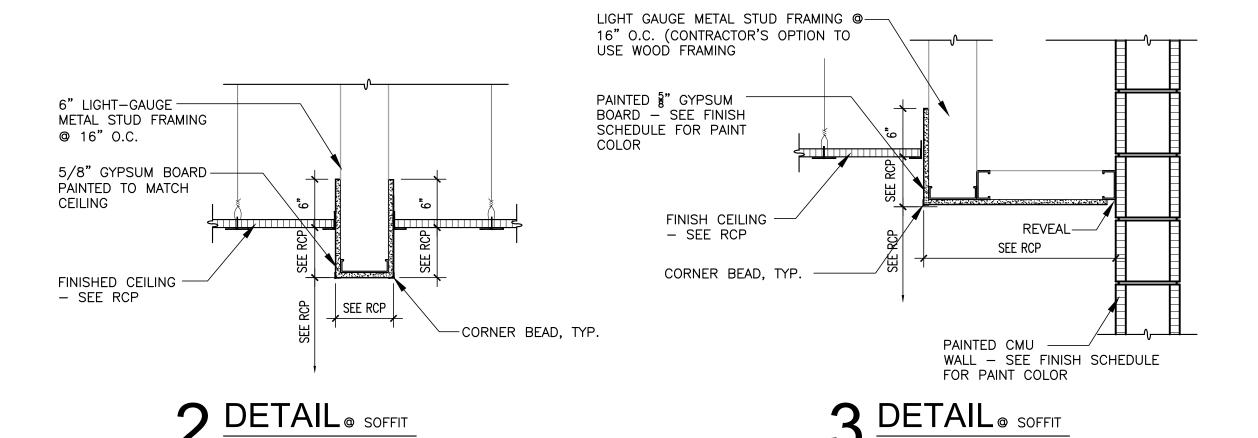
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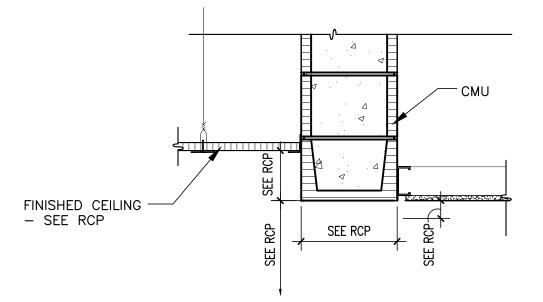
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MAIN FLOOR REFLECTED CEILING PLAN





CEILING NOTES

ALL CEILING HEIGHTS ARE FROM ADJACENT FINISHED FLOOR CEILING HEIGHTS INDICATED ARE MINIMUM HEIGHTS. COORDINATE W/ PLUMBING, MECHANICAL, AND ELECTRICAL TO INSTALL CEILINGS AS HIGH AS POSSIBLE.

AFF = ABOVE FINISH FLOOR

ALL CEILING GRIDS ARE TO BE CENTERED IN ROOM UNLESS SHOWN OR NOTED OTHERWISE USE 2x4 LAY-IN CEILING TILES CUT TO FIT AT ALL LOCATIONS LESS THAN 12" AT PERIMETER OF ROOM. WHERE 2x4 TILES OCCUR THEY SHALL MATCH SPECIFIED TILE AS INDICATED FOR EACH ROOM. COORDINATE W/ PLUMBING, MECHANICAL AND PLUMBING DRAWINGS AND PROVIDE FRAMING AS REQUIRED TO

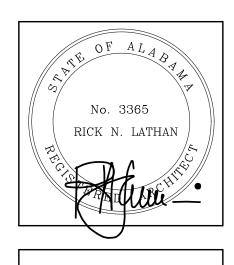
ACCOMMODATE MECHANICAL AND PLUMBING SYSTEMS R - 1" REVEAL AT ALL GYPSUM SOFFITS; HORIZONTAL AS SHOWN, EXTEND VERTICAL - PAINTED TO MATCH SOFFIT

LIGHTING/ELECTRICAL NOTES COORDINATE LIGHTING LAYOUTS WITH ELECTRICAL DRAWINGS.

CONTACT ARCHITECT WITH ANY DISCREPANCIES

CEILING LEGEND	
FIXTURE TYPES - SEE ELECTRICAL	
CEILING TYPE	CEILING HEIGHTS
GB - GYPSUM BOARD, PAINTED	74 = 7'-4" AFF
EGB - EXTERIOR GYPSUM BOARD, PAINTED	78 = 7'-8" AFF
1 - 2 x 2 LAY-IN AS SPECIFIED	86 = 8'-6" AFF
ML - MOISTURE RESISTANT LAY-IN AS SPECIFIED	88 = 8'-8" AFF
MGB - MOISTURE RESISTANT GYP BOARD AS SPECIFIED	90 = 9'-0" AFF
CMU - CMU LINTEL - PAINTED TO MATCH SOFFIT	96 = 9'-6" AFF
R - 1" REVEAL AS SPECIFIED	98 = 9'-8" AFF
REFER TO FINISH SYMBOLS ON PLAN FOR MATERIALS AND CEILING HEIGHTS CEILING L1-90 CEILING TYPE	100 = 10'-0" AFF

CLASSROOM ADDITION TO LINCOLN HIGH SCHOOL 78989 AL HIGHWAY 77, LINCOLN, ALABAMA 35096 TALLADEGA COUNTY BOARD OF EDUCATION



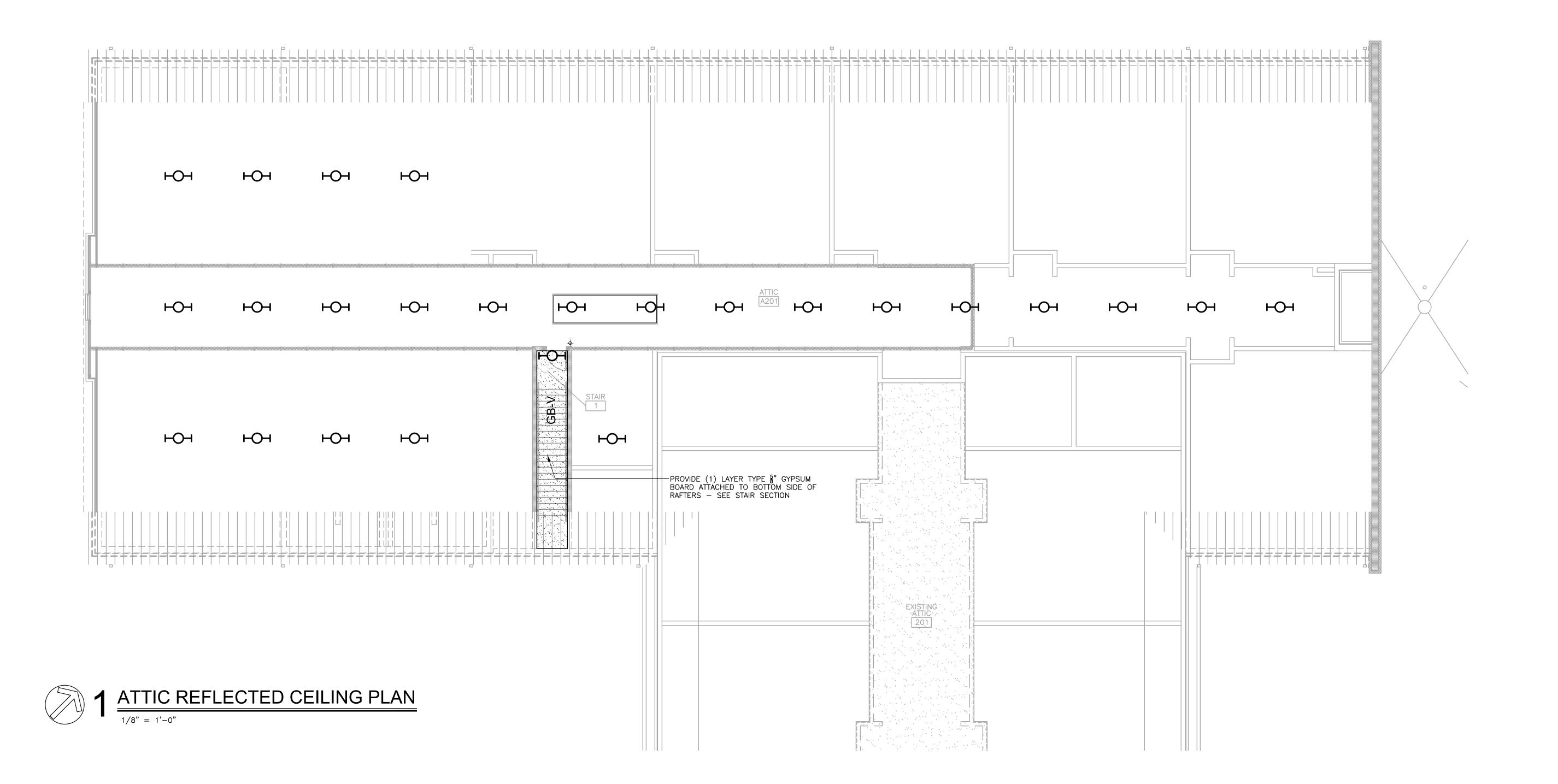


SHEET TITLE: REFLECTED CEILING PLAN AND DETAILS

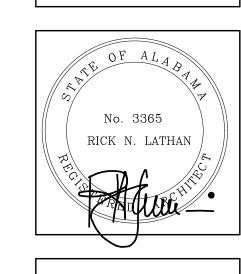
PROJ. MGR.: L. BRYANT DRAWN: CRB Rasco DATE: JANUARY 31, 20 REVISIONS	DRAWN: CRB Rasco DATE: JANUARY 31, 20				
DRAWN: CRB Rasco DATE: JANUARY 31, 20	DRAWN: CRB Rasco DATE: JANUARY 31, 20				
Rasco DATE: JANUARY 31, 20	Rasco DATE: JANUARY 31, 20.	PROJ.	MGR.: L. E	RYAI	٧T
DATE: JANUARY 31, 20	DATE: JANUARY 31, 20.	DRAWN	√: CRB		
	DATE: JANUARY 31, 20 REVISIONS	IR asco			
REVISIONS	REVISIONS	DATE:	JANUARY	31,	20
		REVISI	ONS		

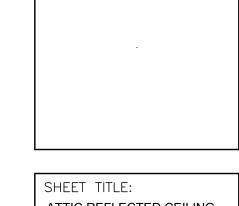
JOB NO. **22-20** SHEET NO:

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SHEET TITLE:
ATTIC REFLECTED CEILING
PLAN

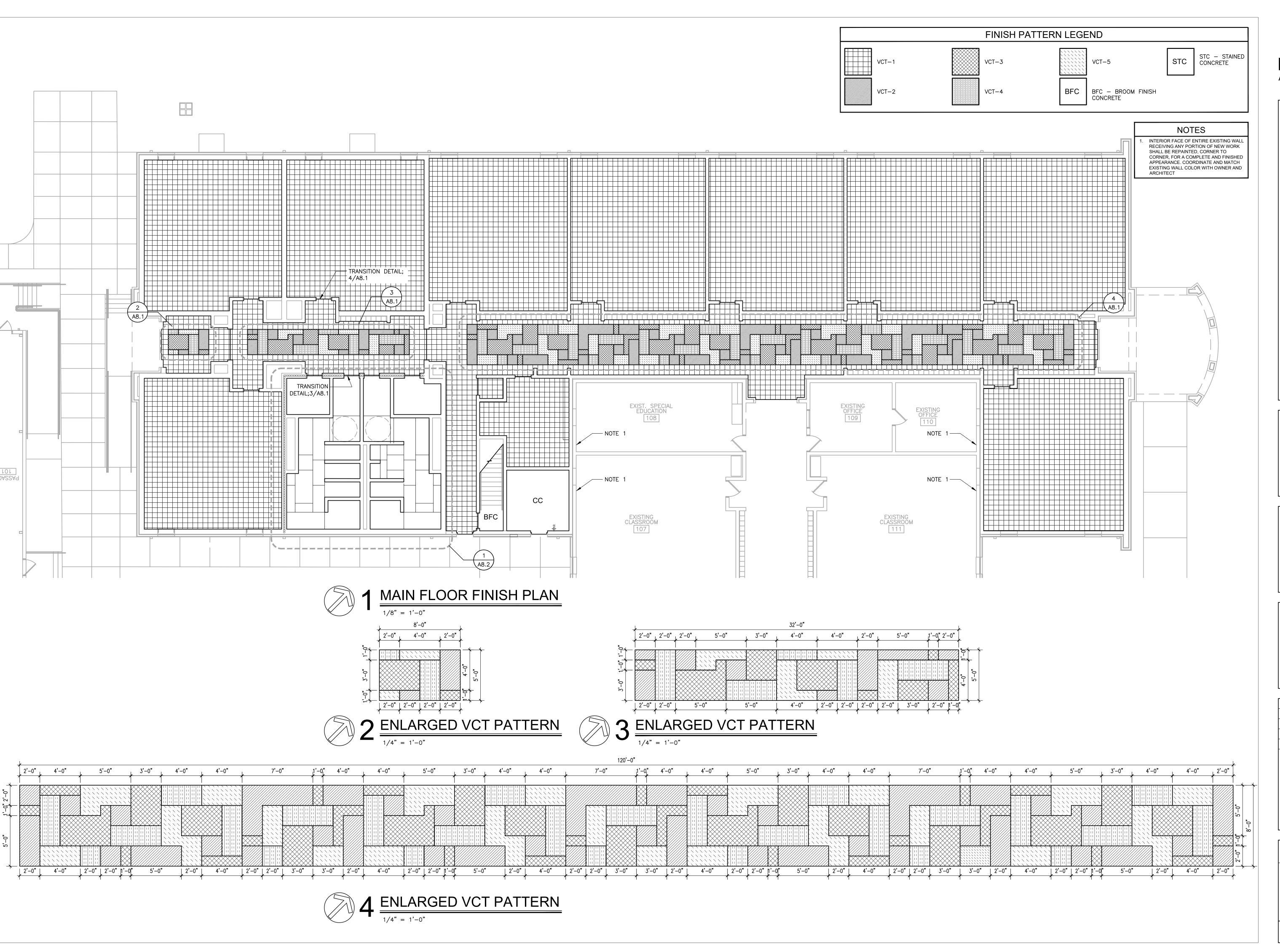
PROJ	. MGR.: L. BRYANT
DRAW	N: CRB
Rasco)
DATE:	JANUARY 31, 2023
REVIS	SIONS

JOB NO. **22-20**SHEET NO:

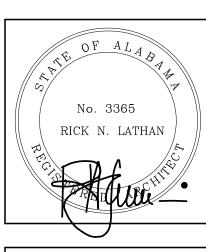
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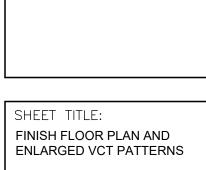
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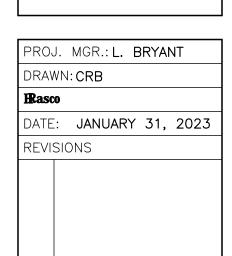
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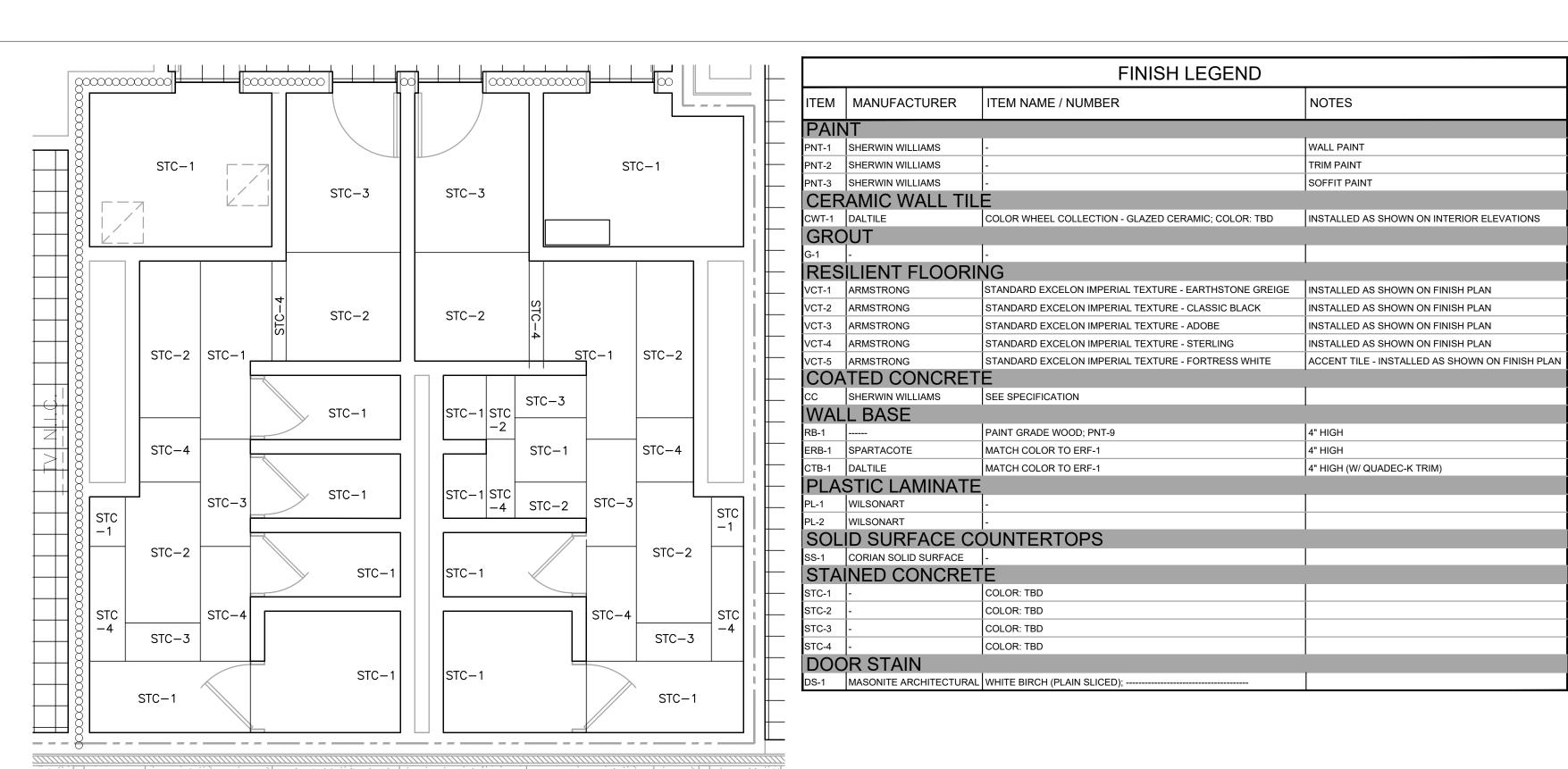




JOB NO. 22-20
SHEET NO:

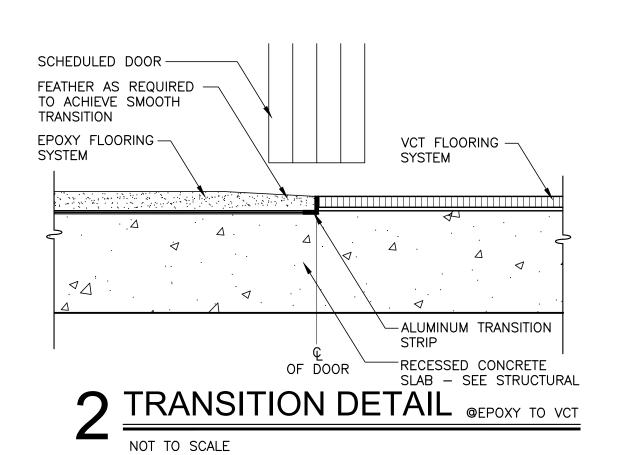
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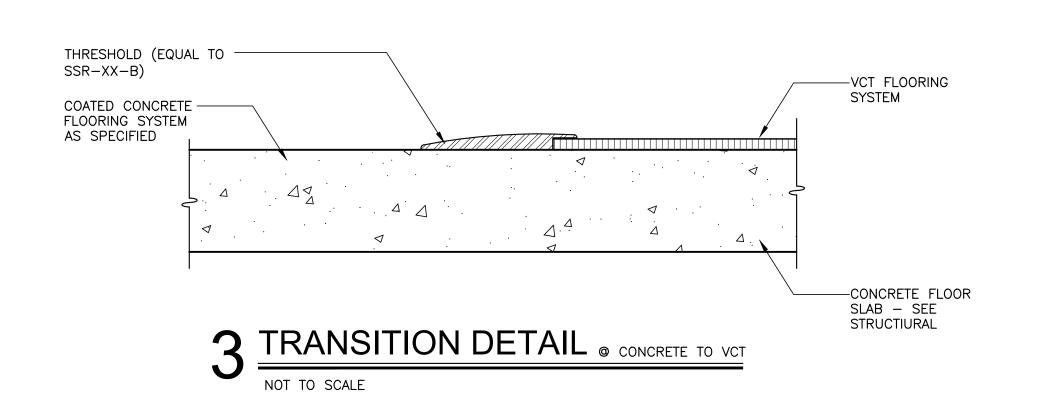
24 OF 25

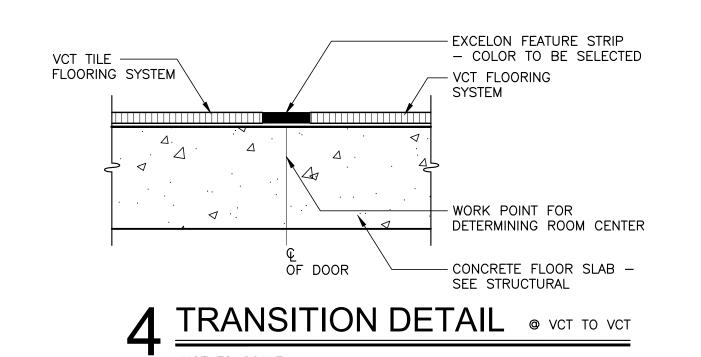


JOTEO	4 DEDAINT EN	ITIDE WALL T	0 1447011	EVICTING			FINIS	1100				
ROOM		ITIRE WALL I	Τ	MILLWORK WALL PAINT (PROJECT NORTH) TRIM CEILING/								
NO.	ROOM NAME	FLOOR	BASE	FACE	TOP	NORTH	SOUTH	EAST	WEST	TRIM	SOFFIT PAINT	NOTES
OWER	LEVEL											
1	STAIR	-	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	-	-
A101	CORRIDOR	VCT-1,2,3,4,5	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	EPOXY PAINT ON ALL WET WALLS
A102	CORRIDOR	VCT-1,2,3,4,5	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	EPOXY PAINT ON ALL WET WALLS
A103	CORRIDOR	VCT-1,2,3,4,5	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	-	-
A104	CORRIDOR	VCT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	-
A105	TEACHER WORKROOM	VCT-1	RB-1	PL-1	PL-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	-	-
A106	MECHANICAL	CC	-	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	-	-
A107	JANITOR	STC-1	CTB-1	PL-1	PL-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	-	EPOXY PAINT ON ALL WET WALLS
A108	MECHANICAL	STC-1	CTB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	-	-
A109	TOILET	STC-1,2,3,4	CTB-1	PL-2	SS-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	EPOXY PAINT ON ALL WET WALLS. SEE 4/A5.1 FOR WALL TILE
A110	TOILET	STC-1,2,3,4	CTB-1	PL-2	SS-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	EPOXY PAINT ON ALL WET WALLS
A111	CLASSROOM	VCT-1	RB-1	PL-1	PL-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	-
A112	CLASSROOM	VCT-1	RB-1	PL-1	PL-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	-
A113	CLASSROOM	VCT-1	RB-1	PL-1	PL-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	-
A114	CLASSROOM	VCT-1	RB-1	PL-1	PL-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	-	-
A115	CLASSROOM	VCT-1	RB-1	PL-1	PL-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	-	-
A116	CLASSROOM	VCT-1	RB-1	PL-1	PL-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	-	-
A117	CLASSROOM	VCT-1	RB-1	PL-1	PL-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	-	-
A118	CLASSROOM	VCT-1	RB-1	PL-1	PL-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	-	-
A119	CLASSROOM	VCT-1	RB-1	PL-1	PL-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	-	-
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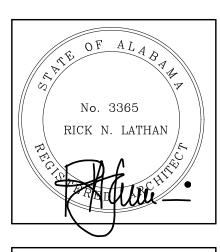


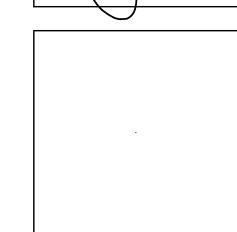
NOT TO SCALE



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TALLADEGA COUNTY BOARD OF EDUCATION





SHEET TITLE: FINISH SCHEDULE, LEGEND, AND DETAILS	FINISH SCHEDULE, LEGEND,
FINISH SCHEDULE, LEGEND,	FINISH SCHEDULE, LEGEND,
FINISH SCHEDULE, LEGEND,	FINISH SCHEDULE, LEGEND,

DPA	J. MGR.: L. BRYANT
DRAV	VN: PPh
R asc	0
DATE	: JANUARY 31, 2023
REVIS	SIONS

JOB NO. **22-20**SHEET NO:

A8.2

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0 1" 2"

- A. GENERAL BUILDING CODE: INTERNATIONAL BUILDING CODE, 2021 EDITION
- B CONCRETE: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-19)
- C. PRECAST CONCRETE: PCI DESIGN HANDBOOK, LATEST EDITION

PCI MANUAL FOR QUALITY CONTROL FOR PLANTS AND PRODUCTIONS FOR PRECAST CONCRETE PRODUCTS, LATEST EDITION

ARCHITECTURAL PRECAST CONCRETE: PCI MNL-122 ARCHITECTURAL PRECAST CONCRETE, LATEST EDITION

PCI MANUAL FOR QUALITY CONTROL FOR PLANTS AND PRODUCTION OF ARCHITECTURAL PRECAST CONCRETE PRODUCTS, LATEST EDITION

SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (ANSI/AISC 360-16)

- F. STEEL DECK: STEEL DECK INSTITUTE DESIGN MANUALS FOR COMPOSITE DECKS, NON-COMPOSITE DECKS, AND ROOF DECKS, LATEST EDITIONS
- G. MASONRY: SPECIFICATIONS FOR MASONRY STRUCTURES (TMS 602-16)

CONCRETE MASONRY", LATEST EDITION

BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (TMS 402-16) NATIONAL CONCRETE MASONRY ASSOCIATION'S STANDARD PRACTICES AND "SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF LOAD BEARING

H. COLD-FORMED STEEL FRAMING: NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AMERICAN IRON AND STEEL INSTITUTE (AISI s100-16(2020) w/s2-20)

OTHER APPLICABLE AISI STANDARDS, AMERICAN IRON AND STEEL INSTITUTE, LATEST EDITION

STORM SHELTER SAFE SPACE: ICC/NSSA STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS

1.2 DESIGN GRAVITY LOADS (PSF):

(ICC 500-2020)

A. DEAD LOADS: ANY CHANGES IN CONSTRUCTION MATERIALS FROM THOSE SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS SHALL BE REPORTED BY THE GENERAL CONTRACTOR TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOAD-CARRYING CAPACITY OF THE STRUCTURE.

B FLOOR LIVE LOADS: NON-REDUCIBLE PARTITION LIVE LOAD OF 20 PSF HAS BEEN INCLUDED PER IBC SECTION 1607.5.

LIVE LOAD REDUCTIONS AS DETERMINED BY IBC SECTION 1607.12 HAVE BEEN TAKEN WHERE PERMITTED.

FLOOR (REDUCIBLE)	100
SHELTER FLOOR (UNREDUCIBLE)	100
SHELTER ROOF (UNREDUCIBLE)	100
STORAGE	125
MECHANICAL ROOM	150
MECHANICAL MEZZANINE	150
STAIRS & EXITWAYS	100

C. ROOF LIVE LOADS: WHERE PERMITTED ROOF LIVE LOADS ARE REDUCED FROM THE BASE VALUE SHOWN BELOW IN ACCORDANCE WITH IBC SECTION 1607.14.

	SHELTER ROOF (UNREDUCIBLE)135
D.	ROOF SNOW LOADS: GROUND SNOW LOAD (Pg)5.0 IMPORTANCE FACTOR (I)1.1 EXPOSURE FACTOR (Ce)1.0 THERMAL FACTOR (Ct)1.0

1.3 DESIGN LATERAL LOADS:

Α.	WIND LOADS:
	ULTIMATE DESIGN WIND SPEED (3-SECOND GUST)116 MPH
	NOMINAL WIND SPEED (3-SECOND GUST)96 MPH
	RISK CATEGORYIII
	WIND IMPORTANCE FACTOR (I)1.00
	WIND EXPOSURE CATEGORYC
	ENCLOSURE CATEGORYENCLOSED
	INTERNAL PRESSURE COEFFICIENTS +/- 0.18
	SEE TYPICAL DETAILS FOR COMPONENT AND CLADDING LOADS

B. SEISMIC LOADS: OCCUPANCY CATEGORY III (GROUP E OCCUPANCIES WITH OCCUPANCY > 250) SEISMIC IMPORTANCE FACTOR----MAPPED SPECTRAL RESPONSE ACCELERATIONS: --0.094 SITE CLASS-

SPECTRAL RESPONSE COEFFICIENTS: ---0.151 SEISMIC DESIGN CATEGORY-----BASIC SEISMIC-FORCE-RESISTING SYSTEM: INTERMEDIATE REINFORCED MASONRY SHEAR WALLS DESIGN BASE SHEAR: -----150 KIPS CLASSROOM ADDITION-----SEISMIC RESPONSE COEFFICIENT, Cs-------0.0962

RESPONSE MODIFICATION FACTOR, R-----3.5 ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE C. STORM SHELTER SAFE SPACE WIND LOADS: TYPE OF SHELTER-----TORNADO SHELTER DESIGN WIND SPEED-----250 MPH WIND IMPORTANCE FACTOR (I) WIND EXPOSURE CATEGORY--

INTERNAL PRESSURE COEFFICIENTS (GCpi)-----+/- 0.55

TOPOGRAPHIC FACTOR (Kzt)-----1.0 DIRECTIONALITY FACTOR (Kd)-----1.0 HOST BUILDING CONNECTIONS TO SHELTER HAVE BEEN DESIGNED PER INTENT OF ICC 500.

STORM SHELTER HAS NOT BEEN CONSTRUCTED IN AN AREA SUSCEPTIBLE TO FLOODING PER ICC 500 SECTION 402.1.

PER ICC 500, SPECIAL INSPECTION AND QUALITY ASSURANCE REQUIREMENTS HAVE BEEN INCLUDED WITHIN THE PROJECT SPECIFICATIONS - REFER TO SPEC. SECTION 01410

2.0 GENERAL CONDITIONS

- 2.1 THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE A PORTION OF THE CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL REFERENCE AND COORDINATE WITH OTHER DISCIPLINE'S DRAWINGS. ANY DISCREPANCIES OR OMISSIONS SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT AND STRUCTURAL DESIGN GROUP.
- 2.2 ALL REPORTS, PLANS, SPECIFICATIONS, COMPUTER FILES, FIELD DATA, NOTES, AND OTHER DOCUMENTS AND INSTRUMENTS PREPARED BY STRUCTURAL DESIGN GROUP AS INSTRUMENTS OF SERVICE SHALL REMAIN THE PROPERTY OF STRUCTURAL DESIGN GROUP. STRUCTURAL DESIGN GROUP SHALL RETAIN ALL COMMON LAW, STATUTORY, AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THERETO.

- 2.3 CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND SITE CONDITIONS PRIOR TO FABRICATION/CONSTRUCTION. NOTIFY STRUCTURAL ENGINEER AND ARCHITECT OF ANY DISCREPANCIES PRIOR TO FABRICATION/CONSTRUCTION.
- 2.4 WHERE SHOP DRAWINGS, CALCULATIONS, OR SUBMITTALS ARE CALLED FOR IN THE PROJECT DOCUMENTS (DRAWINGS AND SPECIFICATIONS) AND ARE NOT PROVIDED BY THE CONTRACTOR, THE CONTRACTOR ASSUMES TOTAL RESPONSIBILITY FOR THE DESIGN AND ASSOCIATED WORK.
- 2.5 ENGINEER'S SHOP DRAWING REVIEW IS LIMITED TO REVIEW FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT REFLECTED IN THE STRUCTURAL PORTION OF THE CONTRACT DOCUMENTS. THIS REVIEW DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE DRAWINGS. SPECIFICATIONS OR OTHER PROJECT CONTRACT. DOCUMENTS. NO RESPONSIBILITY IS ASSUMED OR IMPLIED FOR THE CORRECTNESS OF DIMENSIONS OR DETAILS. THIS REVIEW DOES NOT AUTHORIZE CHANGES TO THE CONTRACT SUM UNLESS STATED IN A SEPARATE WRITTEN FORM OR CHANGE ORDER. CONTRACTOR SHALL CONFIRM AND CORRELATE ALL QUANTITIES AND DIMENSIONS. SELECT FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINAT HIS WORK WITH THAT OF OTHER TRADES. AND PERFORM HIS WORK IN A SAFE AND SATISFACTORY MANNER. CONTRACTOR SHALL ALSO REFER TO THE REQUIREMENTS OF THE GENERAL AND SUPPLEMENTARY GENERAL CONDITIONS.
- 2.6 ALL DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS, UNLESS NOTED.
- 2.7 VERIFY ALL DIMENSIONS AND DETAILS SHOWN ON THESE DRAWINGS. ANY DISCREPANCIES OR OMISSIONS FOUND SHALL BE REPORTED TO THE ENGINEER AND OTHER DESIGN PROFESSIONALS AS APPROPRIATE FOR RESOLUTION PRIOR TO PROCEEDING WITH ANY RELATED WORK.
- 2.8 THESE DRAWINGS DO NOT INCLUDE PROVISIONS TO SATISFY JOB SITE SAFETY REOUIREMENTS. CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING SAFETY DURING CONSTRUCTION AND FOR CONFORMANCE TO ALL APPLICABLE OSHA STANDARDS. JOBSITE VISITS BY ENGINEER SHALL NOT CONSTITUTE APPROVAL, AWARENESS OR LIABILITY FOR ANY HAZARDOUS CONDITIONS.
- 2.9 STRUCTURAL DESIGN GROUP IS NOT RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, SAFETY PROCEDURES, CONSTRUCTION SUPERVISION OR SITE SAFETY, AND DOES NOT HAVE THE AUTHORITY TO STOP WORK FOR THESE ITEMS. DRAWINGS FURTHER DO NOT PROVIDE ENGINEERING CONTROLS FOR SILICA STANDARD OR ANY OTHER SAFETY STANDARD.
- 2.10 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR BRACING AND SHORING ALL EXCAVATIONS, DEWATERING OF EXCAVATION FROM EITHER SURFACE WATER, GROUND WATER OR SEEPAGE. TEMPORARY AND EXTSTING STRUCTURES. AND PARTIALLY COMPLETED PORTIONS OF THE WORK TO ASSURE THE SAFETY OF ANY PERSON COMING IN CONTACT WITH THE WORK.
- 2.11 THE STRUCTURAL INTEGRITY OF THE BUILDING IS DEPENDENT UPON COMPLETION ACCORDING TO THE PLANS AND SPECIFICATIONS. THE STRUCTURAL ENGINEER OF RECORD ASSUMES NO LITARILITY FOR THE STRUCTURE DURING CONSTRUCTION. THE METHOD OF CONSTRUCTION AND SEQUENCE OF OPERATIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL SUPPLY ANY NECESSARY BRACING, GUYS, ETC. TO PROPERLY BRACE THE STRUCTURE AGAINST WIND, DEAD AND LIVE LOADS UNTIL THE BUILDING IS COMPLETED ACCORDING TO THE PLANS AND SPECIFICATIONS. ANY QUESTIONS REGARDING TEMPORARY BRACING REQUIREMENTS SHOULD BE FORWARDED TO A STRUCTURAL ENGINEER FOR REVIEW.
- 2.12 MECHANICAL UNITS AND ANY OTHER EQUIPMENT SUPPORTED BY THE STRUCTURE WITH WEIGHTS IN EXCESS OF 200 LBS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
- 2.13 WHERE NOTED IN DRAWINGS AND SPECIFICATIONS TO INSTALL PRODUCTS PER THE MANUFACTURER'S RECOMMENDATIONS, IT SHALL BE REQUIRED THAT THE CONTRACTOR FOLLOWS THE MANUFACTURER'S RECOMMENDATIONS
- 2.14 THE OWNER SHALL RETAIN THE SERVICES OF INDEPENDENT AGENCIES TO PERFORM THE CONSTRUCTION MATERIAL TESTING AND CODE REQUIRED SPECIAL INSPECTIONS. AS CONSTRUCTION PROGRESSES. FORWARD COPIES OF TESTING AND INSPECTION REPORTS TO THE STRUCTURAL ENGINEER FOR REVIEW. SDG CANNOT ISSUE A CERTIFICATE OF SATISFACTORY COMPLETION WITHOUT REVIEWING THESE REPORTS AND FINAL CERTIFICATES ISSUED BY EACH OF THE INDEPENDENT AGENCIES.
- 2.15 STRUCTURAL OBSERVATIONS BY SDG ARE VISUAL OBSERVATIONS OF THE IN-PLACE STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED STRUCTURAL PORTIONS OF THE CONSTRUCTION DOCUMENTS AT THE TIME OF THE OBSERVATION AND SHALL NOT BE CONSTRUED AS INSPECTION OR APPROVAL OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING TESTING AND SPECIAL INSPECTIONS PER THE REQUIREMENTS IN THE PROJECT MANUAL AND CONSTRUCTION DOCUMENTS.
- 2.16 OBSERVATION BY THE STRUCTURAL ENGINEER OF RECORD'S OFFICE DOES NOT REPLACE INSPECTIONS AND TESTING BY THE SPECIAL INSPECTOR AND TESTING
- 2.17 ANY CLAIMS FOR DELAYS OR DAMAGES SHALL BE SENT TO THE OWNER, ARCHITECT AND STRUCTURAL ENGINEER IN A STANDALONE LETTER TITLED 'DELAY/DAMAGE NOTICE' WITHIN 48 HOURS OF THE CONTRACTOR LEARNING OF THE CLAIM. CLAIMS EMBEDDED IN DAILY REPORTS WILL NOT BE CONSIDERED.

3.0 FOUNDATIONS

- 3.1 GEOTECHNICAL REPORT: FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL ENGINEERING REPORT BY TERRACON CONSULTANTS, INC., TITLED "PROPOSED LINCOLN HIGH SCHOOL CLASSROOM ADDITION, LINCOLN, TALLADEGA COUNTY, ALABAMA, DATED DECEMBER 7, 2022, TERRACON PROJECT NO. E1225186" ALONG WITH ANY SUPPLEMENTAL CORRESPONDENCE. THE GENERAL CONTRACTOR SHALL OBTAIN A COPY OF THE GEOTECHNICAL REPORT FROM THE OWNER AND FOLLOW ALL REQUIREMENTS AND RECOMMENDATIONS. GEOTECHNICAL RECOMMENDATIONS SHALL TAKE PRECEDENCE OVER THE ITEMS THAT FOLLOW IN THIS SECTION OF THE STRUCTURAL GENERAL NOTES.
- 3.2 MAXIMUM ALLOWABLE BEARING PRESSURE PER GEOTECHNICAL REPORT: 2000 PSF NOTE: ALL FOOTING BEARING ELEVATIONS SHALL BE BEARING IN SIMILAR MATERIAL (NATIVE SOILS OR WEATHERED BEDROCK), EXTEND FOOTINGS AS NECESSARY
- 3.3 ALL FOUNDATION BEARING SURFACES SHALL BE REVIEWED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE TO ENSURE THEIR COMPLIANCE WITH PRESSURES NOTED. ALL FOOTING ELEVATIONS ARE ESTIMATED AND MAY BE ADJUSTED IN THE FIELD BY THE GEOTECHNICAL ENGINEER.

WITH LEAN CONCRETE OR FLOWABLE FILL.

- 3.4 COMPACTED FILL WITHIN THE BUILDING AREA (AND EXTENDING 10'-0" OUTSIDE THE EXTERIOR BUILDING LINE) SHALL MEET THE REQUIREMENTS NOTED IN THE GEOTECHNICAL REPORT.
- 3.5 BACKFILL FOR FOUNDATION AND RETAINING WALLS SHALL BE A FREE DRAINING GRANULAR MATERIAL, SUCH AS SIZE #57 STONE. BACKFILL SHALL BE COMPACTED SUFFICIENTLY TO PREVENT SUBSIDENCE OF SURFACE ADJACENT TO WALL. THE GRANULAR MATERIAL SHALL BE PLACED IN A 45 DEGREE WEDGE EXTENDING FROM THE BASE OF THE FOOTING TO WITHIN 18" OF FINISH GRADE ON EXTERIOR AND TO UNDERSIDE OF SLAB ON INTERIOR. AT EXTERIOR, CAP GRANULAR BACKFILL WITH 18" OF SOIL.
- 3.6 GRANULAR BACKFILL SUPPORTING A FOOTING SHALL BE COMPACTED UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER OR HIS APPROVED REPRESENTATIVE. PROVIDE A 12" THICK CAP OF PROPERLY COMPACTED CRUSHER RUN STONE BETWEEN THE FOOTING AND THE PROPERLY COMPACTED GRANULAR BACKFILL. EXTEND CRUSHER RUN CAP TWO FEET BEYOND THE PERIMETER OF THE FOOTING OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
- 3.7 FOUNDATION AND RETAINING WALLS SHALL NOT BE BACKFILLED UNTIL CONCRETE HAS ATTAINED THE REQUIRED 28 DAY COMPRESSIVE STRENGTH.
- 3.8 DO NOT PLACE BACKFILL AGAINST FOUNDATION WALLS UNTIL UPPER BRACING FLOORS ARE IN PLACE FOR AT LEAST SEVEN DAYS AND HAVE ATTAINED 75% OF DESIGN
- 3.9 WHERE CONCRETE WALLS SUPPORT EARTH ON BOTH SIDES, BACKFILL EACH SIDE SIMULTANEOUSLY.
- 3.10 WHERE SPREAD FOOTINGS ARE AT THE SAME ELEVATION AS CONTINUOUS WALL FOOTINGS, REINFORCING STEEL IN CONTINUOUS WALL FOOTINGS SHALL EXTEND THRU SPREAD FOOTINGS. WHERE SPREAD FOOTINGS ARE BELOW CONTINUOUS WALL FOOTINGS, CONTINUOUS WALL FOOTINGS ARE TO STEP DOWN ONTO SPREAD FOOTINGS.
- 3.11 SUBGRADE AND GRANULAR FILL SUPPORTING SLABS ON GRADE SHALL BE AS RECOMMENDED BY THE GEOTECHNICAL REPORT AND COMPACTED UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER OR HIS APPROVED REPRESENTATIVE. SEE SPECIFICATIONS FOR VAPOR RETARDER BENEATH SLABS ON GRADE
- 3.12 GRANULAR FILL BENEATH SLABS, UNLESS NOTED OTHERWISE, SHALL BE 4" COMPACTED #57 STONE.

GENERAL NOTES

- 3.13 VAPOR RETARDER BENEATH SLABS ON GRADE, UNLESS NOTED, SHALL MEET ASTM E 1745, CLASS A, 15 MIL MINIMUM THICKNESS WITH MANUFACTURER'S RECOMMENDED ADHESIVE OR PRESSURE-SENSITIVE TAPE AND PIPE BOOTS, SUCH AS W.R. MEADOWS INC. PRODUCT PERMINATOR 15.
- 3.14 NO EXCAVATION SHALL BE CLOSER THAN AT A SLOPE OF 2:1 (TWO HORIZONTAL TO ONE VERTICAL) TO A FOOTING.

4.0 CONCRETE

- 4.1 CONCRETING OPERATIONS SHALL COMPLY WITH ACI STANDARDS.
- 4.2 CONCRETE STRENGTH AND DURABILITY REQUIREMENTS: MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS (PSI), TYPE OF CONCRETE, MAXIMUM WATER/CEMENTITIOUS RATIO, AIR CONTENT, SLUMP, AND CONCRETE USE:

STRENGTH TYPE MAX W/C AIR SLUMP USE 3000 NORMAL WT. 0.57 ---- 3" TO 5" FOOTINGS 3500 NORMAL WT. 0.50 ---- 3" TO 5" SLABS ON GRADE

4000 NORMAL WT. 0.45 4-6% 3" TO 5" UNLESS NOTED

- A. CONCRETE MIX DESIGN SHALL BE WORKABLE WITH LOWEST TOTAL WATER PER CUBIC YARD USING LARGEST PRACTICAL MAXIMUM SIZE OF COURSE AGGREGATE.
- 4.3 REINFORCING BARS: ASTM A615 GRADE 60.
- 4.4 WATERSTOPS: FLEXIBLE PVC WATERSTOPS, CE CRD-C 572, UNLESS NOTED OTHERWISE, WITH FACTORY-INSTALLED METAL EYELETS, FOR EMBEDDING IN CONCRETE TO PREVENT PASSAGE OF FLUIDS THROUGH JOINTS. FACTORY FABRICATE CORNERS. INTERSECTIONS, AND DIRECTIONAL CHANGES. ACCEPTABLE MANUFACTURER IS THE GREENSTREAK GROUP, INC, 800-325-9504, OR EQUAL. PROFILE SHALL BE FLAT, DUMBBELL WITH CENTER BULB WITH DIMENSIONS OF 6 INCHES BY 3/8 INCH THICK.
- A. FLEXIBLE WATERSTOP INSTALLATION: INSTALL IN CONSTRUCTION JOINTS AND AT OTHER JOINTS INDICATED TO FORM A CONTINUOUS DIAPHRAGM. INSTALL IN LONGEST LENGTHS PRACTICABLE. SUPPORT AND PROTECT EXPOSED WATERSTOPS DURING PROGRESS OF THE WORK.
- 4.5 REINFORCING STEEL SHOWN IN SECTIONS AND DETAILS ARE A SCHEMATIC INDICATION THAT REINFORCING EXISTS. SEE SCHEDULES, SECTION NOTES AND GENERAL NOTES FOR ACTUAL REINFORCING REQUIRED.
- 4.6 REINFORCING BAR PLACING ACCESSORIES IN ACCORDANCE WITH ACI MANUAL OF STANDARD PRACTICE. WHERE CONCRETE IS EXPOSED IN FINISHED BUILDING. PROVIDE ACCESSORIES WITH RUSTPROOF LEGS. WHERE CONCRETE IS SAND-BLASTED OR BUSH-HAMMERED, PROVIDE ACCESSORIES OF STAINLESS STEEL.
- 4.7 DETAIL REINFORCEMENT IN ACCORDANCE WITH ACI 315. REINFORCEMENT SHALL NOT BE WELDED, UNLESS NOTED OR APPROVED BY THE ENGINEER.
- 4.8 ALL SPLICES SHALL BE CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.
- 4.9 ALL REINFORCING MARKED "CONT." INDICATES REINFORCING SHALL BE "CONTINUOUS" AND SHALL BE SPLICED WITH CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.
- 4.10 PROVIDE CORNER BARS AT ALL CORNERS OF CONTINUOUS REINFORCING IN FOOTINGS, SLABS, OR WALLS. CORNER BARS SHALL BE LONG ENOUGH TO PROVIDE A CLASS "B" LAP SPLICE OF REINFORCING BARS.
- 4.11 CONCRETE COVERAGE OF REINFORCEMENT, UNLESS NOTED:

FOOTINGS2" TOP & 3" BOTTOM & SIDES
COLUMNS & PEDESTALS1-1/2" CLEAR OF TIES
BASEMENT WALLS2" BOTH FACES
FOUNDATION RETAINING WALLS2" BOTH FACES
SUMP AND PIT WALLS3" BOTH FACES
BEAMS1-1/2" CLEAR OF STIRRUPS
SLAB FACES NOT EXPOSED TO WEATHER OR EARTH3/4'
SLAB FACES EXPOSED TO WEATHER
#5 AND LESS1-1/2"
#6 AND GREATER2"

- NOTE: SLAB ON GRADE WWR OR REINFORCEMENT EACH WAY SHALL BE 2" CLEAR FROM TOP OF SLAB. SEE EARTH SUPPORTED SLABS SECTION BELOW.
- 4.12 PEDESTAL, COLUMN AND WALL VERTICAL REINFORCING: DOWEL TO FOUNDATION WITH HOOKED BARS OF SAME SIZE AND SPACING AS VERTICAL REINFORCING.
- 4.13 WELDED WIRE REINFORCEMENT (WWR): ASTM A185, MINIMUM LAP AND EMBEDMENT TO BE THE GREATER OF ONE CROSS WIRE SPACING PLUS 2 INCHES OR 6 INCHES.

4 14 FARTH SUPPORTED SLARS

- 4" THICK (UNLESS NOTED), REINFORCED WITH 6X6 W2.9/W2.9 WWR FLAT SHEETS SUPPORTED 2" CLEAR OF TOP OF SLAB, UNLESS NOTED. WWR TO BE CHAIRED AT 36 INCHES EACH WAY MINIMUM. SEE FOUNDATION NOTES FOR SUBGRADE REQUIREMENTS.
- PROVIDE CONTROL AND CONSTRUCTION JOINTS AT 3-4 TIMES SLAB THICKNESS IN FEET MAXIMUM OR AS REQUIRED TO PREVENT UNCONTROLLED CRACKING PER ACI RECOMMENDATIONS. AS AN EXAMPLE, FOR A 4" THICK SLAB PROVIDE JOINTS SPACED 12 - 16 FEET MAXIMUM. PANELS TO BE RECTANGULAR WITH LONG SIDE NOT TO EXCEED 1-1/2 TIMES SHORT SIDE. CUTTING SHOULD BE STARTED AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT AGGREGATE FROM BEING DISLODGE. CONTRACTOR SUBMIT PLAN SHOWING LOCATION OF CONSTRUCTION AND CONTROL JOINTS.

FLOOR DESIGN AND CONSTRUCTION BASIS IS ACI 302 AND 360, AND IT IS UNREALISTIC TO EXPECT CRACK-FREE OR CURL-FREE FLOORS. IT IS NORMAL TO EXPECT SOME AMOUNT OF CRACKING AND CURLING IN THE SLAB ON GRADE, AND SUCH OCCURRENCE DOES NOT NECESSARILY REFLECT ADVERSELY ON EITHER THE ADEQUENCY OF THE FLOOR DESIGN OR THE QUALITY OF ITS CONSTRUCTION.

FARTH SUPPORTED SLABS SHALL BE MOTST CURED FOR A MINIMUM OF SEVEN DAYS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. CURING COMPOUNDS, UNLESS NOTED, SHALL BE A MINIMUM OF CLEAR, WATERBORNE, MEMBRANE-FORMING CURING COMPOUND MEETING ASTM C 309. TYPE 1. CLASS B SELF-DISSIPATING, CERTIFIED BY CURING COMPOUND MANUFACTURER TO NOT INTERFERE WITH BONDING OF FLOOR COVERING.

WHERE CONTROL JOINTS TERMINATE INTO NON-PARALLEL CONTROL JOINTS, PROVIDE 2#4 X 6'-0" BARS MID DEPTH OF SLAB PERPENDICULAR TO TERMINAL CONTROL JOINT

- PROVIDE 2#4 X 6'-0" BARS MID DEPTH OF SLAB AT REENTRANT CORNERS. WHERE CONTROL JOINTS TERMINATE AT EMBEDDED STEEL ELEMENTS (SUCH AS EDGE REINFORCEMENT AT LOADING DOCKS), PROVIDE JOINT IN STEEL ELEMENT.
- 4.15 CONTRACTION JOINTS IN WALLS: WALL JOINTS SHALL NOT BE SPACED FARTHER THAN 15 FEET FOR 8" WALLS, 20 FEET FOR 10" WALLS AND 30 FEET FOR 12" WALLS. WALL JOINTS SHALL ADDITIONALLY NOT BE LOCATED WITHIN 4'-0" OF EMBED PLATES OR CORNERS OF THE WALL. DISCONTINUE 50% OF THE WALL HORIZONTAL REINFORCING THROUGH JOINTS: TRIMMING BACK THE REINFORCING BARS 2" FROM THE CONTROL JOINT LOCATION. LOCATE CONTROL JOINTS EACH SIDE OF THE WALL. SEAL JOINTS WITH ELASTOMERIC SEALANT. SEE WALL CONTRACTION JOINT TYPICAL
- 4.16 WALL AND SLAB OPENINGS AND SLEEVES SMALLER THAN 12" (IN LARGER DIMENSION) ARE NOT SHOWN ON PLANS. CONTRACTOR SHALL SUBMIT ALL OPENINGS (SIZE AND LOCATIONS) AS A SINGLE COORDINATED SLEEVE PLAN FOR REVIEW AND APPROVAL.
- 4.17 CAST IN PLACE ALL SLEEVES AND INSERTS.
- 4.18 NO CONDUIT OR PIPE SHALL BE CAST IN THE SLAB ON GRADE WITHOUT THE WRITTEN APPROVAL OF STRUCTURAL DESIGN GROUP.

5.0 ARCHITECTURAL AND STRUCTURAL PRECAST CONCRETE

- 5.1 REFER TO ARCHITECT'S DRAWINGS AND SPECIFICATIONS FOR DIMENSIONAL. FINISHING, AND OTHER REQUIREMENTS OF THE ARCHITECTURAL PRECAST.
- 5.2 PRECAST MANUFACTURER IS TO BE RESPONSIBLE FOR THE DESIGN OF ALL PRECAST MEMBERS AND THEIR CONNECTIONS TO THE STRUCTURE AS WELL AS THE DESIGN OF THE ANY REQUIRED TOPPING SLABS FOR GRAVITY AND LATERAL LOADS. CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS

- 5.3 ANY CONNECTIONS SHOWN ON CONTRACT DRAWINGS ARE SHOWN FOR GENERAL ARRANGEMENT ONLY THE CONTRACTOR SHALL COORDINATE ALL PRECAST CONNECTIONS AND EMBEDDED ITEMS WITH THE PRECAST MANUFACTURER.
- A. CONNECTIONS OF THE PRECAST TO THE STRUCTURE SHALL NOT RESTRAIN THE STRUCTURE'S 1" DOWNWARD MOVEMENT AT ALL BEAMS AND 1" UPWARD MOVEMENT
- AT ROOF BEAMS. 5.4 ERECTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TEMPORARY BRACING UNTIL
- ALL CONNECTIONS HAVE BEEN MADE AND TOPPING HAS BEEN CAST.
- 5.5 PRECAST MANUFACTURER SHALL PROVIDE STABILIZING ANGLES AND SIMILAR MISCELLANEOUS METALS, AS REQUIRED, FOR ALL PRECAST WORK.
- 5.6 ALL EXPOSED STEEL CONNECTIONS AND SUPPORT ANGLES, PLATES, BARS AND BOLTS IN CONJUNCTION WITH ALL PRECAST CONCRETE SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION AND FIELD TOUCHED UP WITH ZINC RICH PAINT.
- 5.7 ADJUSTMENT AND POSSIBLY RESETTING OF PRECAST MAY BE REQUIRED TO ALIGN PRECAST DUE TO SUPPORT DEFLECTION AND/OR ROTATION.
- 5.8 SUPPORTING BEAMS AND STRUCTURE WILL DEFLECT AND/OR ROTATE. PRECAST MANUFACTURER AND ERECTOR SHALL COORDINATE CONNECTION/ERECTION SEQUENCE TO ACCOUNT FOR THIS MOVEMENT AND MAKE FINAL ADJUSTMENTS TO ALIGN AND PLUMB PRECAST. THIS MAY REQUIRE ADJUSTING CONNECTIONS OR RECONNECTING.

6.0 PRECAST CONCRETE HOLLOW CORE SLABS

- 6.1 PRECAST MANUFACTURER IS TO BE RESPONSIBLE FOR THE DESIGN OF ALL PRECAST MEMBERS AND THEIR CONNECTIONS TO THE STRUCTURE. CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
- A. PRECAST MANUFACTURER SHALL LIMIT USE TO 2" MAXIMUM OF THE TOPPING SLAB FOR COMPOSITE ACTION IN THE DESIGN OF THE PRECAST PANELS TO ALLOW FOR A 1" MAXIMUM CAMBER IN THE SELF-WEIGHT INSTALLED CONDITION.
- 1. THE REMAINING 1" OF THE TOPPING SLAB IS TO BE APPLIED AS SUPERIMPOSED DEAD LOAD TO THE PRECAST PANELS.
- 2. PRECAST MANUFACTURER IS TO PROVIDE ANTICIPATED CAMBER & DEFLECTION CALCULATIONS FOR ALL PRECAST PANELS SO THAT IT CAN BE VERIFIED THAT THE POSITIVE CAMBER IN THE SELF-WEIGHT INSTALLED CONDITION HAS BEEN LIMITED TO 1" MAXIMUM.
- 3. PRECAST MANUFACTURER IS RESPONSIBLE FOR ADDING AND INCLUDING IN THE BASE BID ANY ADDITIONAL REINFORCING STEEL IN THE TOPPING SLAB AS MAY BE REQUIRED TO CONTROL LONG-TERM CREEP ISSUES WITH THE PRESTRESSED SLAB PANELS.
- 4. STORM SHELTER PRECAST PANELS SHALL BE DESIGNED FOR 235 PSF SHELTER ROOF LIVE LOAD + SHELTER COLLAPSE LOAD IN ADDITION TO OTHER LOADS (SW, DL, CDL, & WL).
- B. PRECAST MANUFACTURER IS TO BE RESPONSIBLE FOR DETERMINING AND VERIFY ANY NECESSARY STEPS. SUCH AS THE ROUGHENING OF PRECAST PANELS AND/OR THE USE OF A CONCRETE BONDING AGENT, IN ORDER TO OBTAIN COMPOSITE ACTION OF THE PRECAST PANELS WITH THE STRUCTURAL TOPPING SLAB. ANY NECESSARY STEPS SHALL BE INDICATED ON THE SUBMITTED CALCULATIONS AND SHOP DRAWINGS BY THE PRECAST MANUFACTURER.
- C. PRECAST MANUFACTURER IS TO PROVIDE WEEP HOLES IN ALL CORES AT EACH END OF ALL PRECAST PANELS. CONTRACTOR HAS THE OPTION TO FIELD INSTALL WEEP HOLES PER PRECAST MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 6.2 PRECAST MANUFACTURER SHALL DESIGN HOLLOW CORE SLABS FOR THE SUPERIMPOSED LOADS LISTED BELOW PLUS SELF-WEIGHT PLUS ALL MASONRY BLOCK WEIGHTS, LIVE LOADS, WIND LOADS, OTHER LOADS SHOWN IN THESE DRAWINGS. DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI-318 AND PCI DESIGN HANDBOOK. LATEST EDITION.

3" TOPPING SLAB -----COLLATERAL DEAD LOAD ------

SECTION NOTES FOR WIND LOADS. SEE GENERAL NOTE 1.3.C. COMPONENTS AND CLADDING WIND LOAD TABLES ON S1.4, TYPICAL DETAILS, PLAN NOTES, AND SECTION NOTES FOR HOUSEKEEPING PADS UNDER MECHANICAL UNITS, COORDINATE SIZE AND

FOR LIVE LOADS, SEE GENERAL NOTES 1.2.B & 1.2.C, PLAN NOTES, AND

6.3 ANY CONNECTIONS SHOWN ON CONTRACT DRAWINGS ARE SHOWN FOR GENERAL ARRANGEMENT ONLY. THE CONTRACTOR SHALL COORDINATE ALL PRECAST CONNECTIONS AND EMBEDDED ITEMS WITH THE PRECAST MANUFACTURER.

LOCATION OF HOUSEKEEPING PADS WITH MECHANICAL DRAWINGS

- 6.4 REINFORCE 3" TOPPING SLAB WITH 6X6 W1.4/W1.4 WWR FLAT SHEETS AT MID-DEPTH OF TOPPING.
- A. CONDUITS AND PIPING SHALL NOT BE PLACED IN THE TOPPING SLAB. 6.5 ERECTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TEMPORARY BRACING UNTIL
- ALL CONNECTIONS HAVE BEEN MADE AND TOPPING HAS BEEN CAST. 6.6 PRECAST MANUFACTURER SHALL PROVIDE STABILIZING ANGLES AND SIMILAR
- MISCELLANEOUS METALS, AS REQUIRED, FOR ALL PRECAST WORK. 6.7 ALL EXPOSED STEEL CONNECTIONS AND SUPPORT ANGLES. PLATES. BARS. AND BOLTS IN CONJUNCTION WITH ALL PRECAST CONCRETE SHALL BE HOT-DIP GALVANIZED
- 6.8 PRECAST CONCRETE HOLLOW CORE SLAB LOCATIONS SHOWN ON THE DRAWINGS ARE ESTIMATED AND SHALL BE VERIFIED BY THE PRECAST MANUFACTURER.

AFTER FABRICATION AND FIELD TOUCHED UP WITH ZINC RICH PAINT.

- 6.9 CONTRACTOR IS TO COORDINATE (MECHANICAL, ELECTRICAL, PLUMBING, ETC.) OPENINGS IN HOLLOW CORE PRECAST CONCRETE SLAB PANELS WITH PRECAST MANUFACTURER.
- A. ALL FIELD CUT OPENINGS THROUGH HOLLOW CORE PRECAST CONCRETE SLAB PANELS SHALL BE LOCATED TO AVOID CUTTING PRESTRESS STRANDS, UNLESS GIVEN APPROVAL BY THE PRECAST MANUFACTURER PRIOR TO COMMENCING WORK
- 6.10 ALL OPENINGS IN THE PRECAST PANELS SHALL BE SHOWN ON THE PRECAST PANEL SHOP DRAWINGS. EXACT LOCATIONS AND OPENING DIMENSIONS SHALL BE INDICATED. ANY DETAILING NECESSARY FOR THE SUPPORT OF THE PANELS AT THE OPENINGS SHALL BE INDICATED ON THE SHOP DRAWINGS. ANY ADDITIONAL STEEL FRAMING REOUIRED AT SLAB OPENINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND INCLUDED IN THE BASE BID AND SHALL BE PROVIDED AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 6.11 BEARING STRIPS SHALL BE RANDOM ORIENTED FIBER REINFORCED MATERIAL CAPABLE OF SUPPORTING A COMPRESSIVE STRESS OF 3000 PSI WITH NO CRACKING, SPLITTING, OR DELAMINATION.

7.0 STRUCTURAL STEEL

- 7.1 FABRICATE AND ERECT ALL STRUCTURAL STEEL IN ACCORDANCE WITH AISC "SPECIFICATION FOR THE DESIGN. FABRICATION. AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS". FABRICATOR SHALL BE QUALIFIED BY PARTICIPATING IN THE AISC QUALITY CERTIFICATION PROGRAM AND HOLD THE AISC BUILDING FABRICATOR QMS CERTIFICATION (BU).
- 7.2 THE STEEL FRAME IS "NON-SELF-SUPPORTING". ADEQUATE TEMPORARY SUPPORT MUST BE PROVIDED BY THE CONTRACTOR UNTIL REQUIRED CONNECTIONS OR ELEMENTS
- 7.3 STRUCTURAL STEEL: ASTM A992 FOR WIDE FLANGE BEAMS AND COLUMNS; A36 FOR S, M AND HP SHAPES AND CHANNELS; ASTM A36 FOR STIFFENER PLATES, BASE PLATES, COLUMN CAP PLATES, BEAM CONNECTION PLATES AND STEEL ANGLES.
- 7.4 HOLLOW STRUCTURAL SECTIONS (HSS): ASTM A500, GRADE B.
- 7.5 STRUCTURAL STEEL PIPE: ASTM A53, GRADE B.
- 7.6 WELDED CONNECTIONS: E70XX ELECTRODES, MINIMUM SIZE FILLET WELD 3/16". WELDING QUALIFICATION, PROCEDURES AND PERSONNEL SHALL BE CERTIFIED ACCORDING TO AWS D1.1, THE STRUCTURAL WELDING CODE - STEEL.
- 7.7 THREADED AND PLAIN STEEL RODS: ASTM A36
- 7.8 HIGH STRENGTH THREADED RODS: ASTM A193 B7

7.9 ANCHOR RODS: ASTM F1554 GRADE 36 ANCHOR AND HEAVY HEX NUT OR ASTM F1554 GRADE 55 ANCHOR AND HEAVY HEX NUT WITH SUPPLEMENTARY REQUIREMENT S1,

A. IF ANCHOR ROD ASSEMBLIES ARE NOT ENCASED IN MINIMUM OF 3" OF

Hoover, AL 35244 tel 205-824-5200

fax 205-824-5280

CONCRETE, ANCHOR ROD ASSEMBLIES ARE TO BE HOT-DIP GALVANIZED. 7.10 HEADED STUDS: TYPE B SHEAR STUD CONNECTORS MADE FROM ASTM A108, GRADE 1015 OR 1020, COLD-FINISHED CARBON, AND COMPLYING WITH AWS D1.1.

UNLESS OTHERWISE INDICATED.

ACCORDANCE WITH AISC.

7.11 CONNECTIONS:

- A. BEARING TYPE A325-N AND SLIP-CRITICAL TYPE A325-SC IN ACCORDANCE WITH RCSC (LRFD OR ASD VERSION) "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". BOLTS THROUGH 4" WIDE BEAM FLANGES SHALL BE 5/8" DIAMETER. OTHERWISE, BOLTS SHALL BE 3/4" DIAMETER.
- B. USE SLIP-CRITICAL CONNECTIONS WHERE NOTED. USE SNUG TIGHT BEARING CONNECTIONS FOR ALL OTHER BOLTED CONNECTIONS.
- C. BOLTS SHOWN IN SECTIONS AND DETAILS ARE A SCHEMATIC INDICATION THAT BOLTS MAY BE USED. ACTUAL NUMBER, UNLESS SPECIFIED, TO BE IN
- D. ALL STRUCTURAL STEEL CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE DESIGNED TO RESIST FORCES INDICATED, BY THE CONTRACTOR.
- 1. WHERE BEAM REACTIONS ARE SHOWN ON THE DRAWINGS, THE CONNECTIONS SHALL DEVELOP THE REACTIONS SHOWN. WHERE CONNECTIONS ARE SUBJECT TO ECCENTRICITY, SUCH ECCENTRICITY SHALL BE TAKEN INTO ACCOUNT WHEN DESIGNING AND DETAILING THE CONNECTION.
- 2. WHERE BEAM REACTIONS OR DESIGN FORCES ARE NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL CONTACT STRUCTURAL DESIGN GROUP FOR DIRECTION.
- E. DESIGN CALCULATIONS FOR THE CONNECTIONS DESIGNED BY THE CONTRACTOR SHALL BE SUBMITTED FOR THE FILES OF THE ARCHITECT AND ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. SHOP DRAWINGS CONTAINING CONNECTIONS FOR WHICH CALCULATIONS HAVE NOT BEEN RECEIVED WILL BE RETURNED UNCHECKED AS AN INCOMPLETE SUBMITTAL.
- 7.12 ALL STRUCTURAL STEEL, INCLUDING EXPOSED BOLTS, NUTS, WASHERS, OR ANCHOR RODS, EXPOSED TO WEATHER IN THE FINAL CONFIGURATION OF THE STRUCTURE SHALL BE HOT-DIP GALVANIZED, UNLESS NOTED OTHERWISE, PER ASTM A123/A123M. VENT HOLES SHALL BE FILLED AND GROUND SMOOTH AFTER GALVANIZING. DAMAGE TO GALVANIZING SHALL BE PAINTED WITH GALVANIZING REPAIR PAINT, SSPC-PAINT 20. SEE 05120 SPECIFICATION FOR PAINT REQUIREMENTS FOR STEEL THAT IS GALVANIZED AND PAINTED.
- 7.13 WHERE STEEL BEAMS ARE CONTINUOUS OVER COLUMNS, PROVIDE WEB STIFFENER PLATES FACH SIDE OF BEAM WEB. OF THICKNESS FOUAL TO BEAM FLANGE THICKNESS. LOCATED IN ALIGNMENT WITH COLUMN WEB OR FLANGES OR CENTER LINE OF HSS
- 7.14 PROVIDE 3/4" THICK CLOSURE PLATES ON THE ENDS OF HSS BEAMS. SHOP WELD

7.15 ALL STEEL EXPOSED TO WEATHER, INCLUDING STEEL LINTELS FOR MASONRY

ALL AROUND TO BEAM WITH 1/4" PARTIAL PENETRATION WELDS.

- OPENINGS, EXCEPT WHERE FABRICATED OF APPROVED CORROSION-RESISTANT STEEL OR OF STEEL HAVING A CORROSION RESISTANT OR OTHER APPROVED COATING, SHALL BE PROTECTED AGAINST CORROSION WITH AN APPROVED COAT OF PAINT, ENAMEL, OR OTHER APPROVED PROTECTION. 7.16 STEEL STAIRS AND ASSOCIATED EMBEDS NOT SPECIFICALLY DETAILED ON THE
- DRAWINGS SHALL BE DESIGNED TO RESIST THE PROJECT DESIGN LOADS INDICATED ABOVE, BY THE CONTRACTOR, UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL FNGTNEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. STATRS SHALL BE DESIGNED IN ACCORDANCE WITH THE NAAMM METAL STAIR MANUAL AND AISC, AND AS LISTED BELOW. CALCULATIONS SHALL BEAR THE SEAL OF THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED AND SHALL BE INCLUDED WITH THE STAIR SHOP DRAWINGS. STAIR SHOP DRAWINGS THAT DO NOT CONTAIN DESIGN CALCULATIONS (MEMBERS, CONNECTIONS,
- ANCHORAGE, ETC.) WILL BE RETURNED UNCHECKED AS AN INCOMPLETE SUBMITTAL. A. STAIR FRAMING SHALL BE CAPABLE OF WITHSTANDING STRESSES RESULTING
- FROM RAILING LOADS IN ADDITION TO LOADS SPECIFIED ABOVE. B. LIMIT DEFLECTION OF TREADS, PLATFORMS, AND FRAMING MEMBERS TO L/360 OR 1/4 INCH. WHICHEVER IS LESS. C. DESIGN OF STAIR FRAMING SHALL ALSO COMPLY WITH AISC'S "STEEL DESIGN
- GUIDE SERIES 11; FLOOR VIBRATIONS DUE TO HUMAN ACTIVITY." 7.17 ALL HANDRAILS, GUARDRAILS, AND EMBEDS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE DESIGNED IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE NOTED ABOVE, BY THE CONTRACTOR, UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. CALCULATIONS SHALL BEAR THE SEAL OF THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED AND SHALL BE
- WITH THE SHOP DRAWINGS. 7.18 INCLUDE A QUANTITY ALLOWANCE UNDER BASE BID FOR PROVIDING AN ADDITIONAL 3 TONS OF IN-PLACE MEDIUM - HEAVY STRUCTURAL STEEL SYSTEM CONSTRUCTION, NOT OTHERWISE INDICATED. TO BE SHOP FABRICATED. PRIMED. AND INSTALLED AT THE DIRECTION OF THE ARCHITECT. THIS STEEL MAY BE USED THROUGHOUT THE PROJECT AT MULTIPLE LOCATIONS OF ANY DIVISIBLE QUANTITY DENOMINATION OR LOCATION, INCLUDING BUT NOT LIMITED TO: LINTELS, BEAMS, COLUMNS, SHELF

SUBMITTED FOR THE FILES OF THE ARCHITECT/ENGINEER AND SHALL BE INCLUDED

ANGLES, EDGE ANGLES, BENT PLATES, REBAR, JOISTS, ETC. 7.19 INCLUDE A QUANTITY ALLOWANCE UNDER BASE BID FOR PROVIDING AN ADDITIONAL 1TON OF IN-PLACE MISCELLANEOUS STEEL SYSTEM CONSTRUCTION. NOT OTHERWISE INDICATED, TO BE FABRICATED, PRIMED, AND INSTALLED AT THE DIRECTION OF THE ARCHITECT. THIS STEEL MAY BE USED THROUGHOUT THE PROJECT AT MULTIPLE LOCATIONS OF ANY DIVISIBLE OUANTITY DENOMINATION OR LOCATION. INCLUDING BUT NOT LIMITED TO: FINISHED RAILINGS, CLIP ANGLES, EMBEDS, STAIR

DRAWINGS.

GALVANIZED.

COMPONENTS, ETC.

- 8.0 STEEL DECK 8.1 DECK PROPERTIES AND ATTACHMENTS SHALL BE IN ACCORDANCE WITH THE STEEL
- DECK INSTITUTE (SDI). 8.2 DECK SHALL BE CONTINUOUS OVER THREE OR MORE SPANS. WHERE DECK SPANS LESS THAN THREE SPANS ARE REQUIRED, THEY SHOULD BE CLEARLY MARKED ON THE SHOP
- 8.3 STEEL ROOF DECK SHALL BE CONNECTED TO SUPPORTING STRUCTURE AS SHOWN IN THE TYPICAL DETAILS AND/OR NOTED IN PLAN/SECTION NOTES.

A. MANUFACTURER SHALL VERIFY ROOF DECK ATTACHMENT IS ADEQUATE TO RESIST

THE WIND UPLIFT LOADING FROM THE COMPONENTS AND CLADDING WIND LOAD

- TABLE PROVIDED IN THE TYPICAL DETAILS. 8.4 STEEL ROOF DECK SHALL BE CONNECTED TO SUPPORTING STRUCTURE WITH 5/8" DIAMETER PUDDLE WELDS [WITH WELD WASHERS FOR DECKS THINNER THAN 22 GAGE] IN A 36/4 PATTERN, SEE TYPICAL DETAILS AND/OR PLAN/SECTION NOTES. SIDE LAP FASTENERS SHALL BE #10 TEK SCREWS. PROVIDE THREE (3) SIDELAP FASTENERS PER SPAN. ROOF DECK GALVANIZING DAMAGED BY WELDING AND WELD ITSELF SHALL BE PAINTED WITH A COLD GALVANIZING PAINT. (UNLESS NOTED
- 8.5 STEEL ROOF DECK SHALL BE CONNECTED TO SUPPORTING STRUCTURE WITH #12 TEK SCREWS IN A 36/4 PATTERN, SEE TYPICAL DETAILS AND/OR PLAN/SECTION NOTES. SIDE LAP FASTENERS SHALL BE #10 TEK SCREWS. PROVIDE TWO (2) SIDELAP
- 8.6 ROOF DECK: WIDE RIB TYPE "WR", STEEL ROOF DECK, 22 GAGE, 1-1/2" DEEP,

FASTENERS PER SPAN. (UNLESS NOTED OTHERWISE)

- 8.7 WELDED CONNECTIONS: E60XX ELECTRODES. WELDING QUALIFICATION, PROCEDURES AND PERSONNEL SHALL BE CERTIFIED ACCORDING TO AWS D1.3, THE STRUCTURAL WELDING CODE - SHEET STEEL
- 8.8 LIGHT GAUGE METAL FRAMING, SUSPENDED CEILINGS, LIGHT FIXTURES AND DUCTS OR OTHER UTILITIES SHALL NOT BE SUPPORTED BY THE STEEL ROOF DECK. 8.9 NAILABLE SUBSTRATE SHALL BE FASTENED TO STEEL ROOF DECK WITH #8 ROUND

HEAD, ZINC PLATED SELF-TAPPING SCREWS AT 12" O.C. EACH WAY. AT CORNER

ZONES, ATTACH SCREWS AT 6" O.C. - SEE TYPICAL DETAILS FOR CORNER ZONES.

STRUCTURAL DESIGN GROUP 300 Chase Park South, Suite 125 Job Number 22-193

LATHAN - BRYANT - CALMA

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SHEET TITLE:

GENERAL NOTES

DATE: JANUARY 31, 2023 REVISIONS

PROJ. MGR.:

DRAWN:

JOB NO. **22-20**

SHEET NO:

1 OF 19

- 9.1 MASONRY CONSTRUCTION SHALL CONFORM TO TMS 602-16 SPECIFICATION.
- 9.2 ALL MASONRY MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE RECOMMENDATIONS OF BRICK INSTITUTE OF AMERICA (BIA) AND NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA) AND MINIMUM REQUIREMENTS ESTABLISHED BY THE LOCAL BUILDING CODE.
- 9.3 MINIMUM COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNIT (f'm) SHALL BE 2000 PSI AT 28 DAYS.
- 9.4 NET COMPRESSIVE STRENGTH FOR EACH CMU UNIT SHALL MEET OR EXCEED 2000 PSI AT 28 DAYS. FOR TYPE N MORTAR, NET COMPRESSIVE STRENGTH FOR BLOCK SHALL BE GREATER THAN 2650 PSI.
- 9.5 GROUT COMPRESSIVE STRENGTH SHALL BE 2500 PSI AT 28 DAYS. GROUT SHALL ADDITIONALLY COMPLY WITH TABLE 6 OF TMS 602 FOR DIMENSIONS OF GROUT SPACES AND POUR HEIGHTS. COURSE GROUT SHALL BE USED WHERE POSSIBLE.
- 9.6 ALL MASONRY SHALL BE NORMAL WEIGHT IN ACCORDANCE WITH ASTM C90.
- 9.7 MORTAR SHALL BE TYPE S OR M. TYPE N MORTAR ALLOWED ONLY IF THE CMU NET COMPRESSIVE STRENGTH IS GREATER THAN 2650 PSI.
- 9.8 ALL MASONRY SHALL BE STACK BOND, UNLESS NOTED.
- 9.9 ALL BLOCK CELLS AND CAVITIES BELOW GRADE SHALL BE FILLED WITH CONCRETE OR
- 9.10 MASONRY REINFORCING LAP SPLICE LENGTHS PER SCHEDULE, SEE MASONRY LAP SPLICE LENGTHS TYPICAL DETAIL.
- 9.11 THE CONTRACTOR SHALL PROVIDE DETAILED SHOP DRAWINGS OF THE CMU REINFORCEMENT.
- A. SHOP DRAWINGS SHALL INCLUDE AN ELEVATION VIEW OF EACH REINFORCED WALL WITH ALL VERTICAL AND HORIZONTAL REINFORCING AS WELL AS WALL OPENINGS/PENETRATIONS SHOWN. REINFORCING SHOP DRAWINGS NOT CONTAINING THESE ELEVATION DRAWINGS WILL BE RETURNED AS AN INCOMPLETE

WALL HEIGHT OR 25'-0", WHICHEVER IS LESS.

9.12 MODIFY CMU BLOCKS AS REQUIRED TO INSTALL REINFORCING AS NOTED/SHOWN. 9.13 PROVIDE CONTRACTION (CONTROL) JOINTS IN ALL CONCRETE MASONRY WALLS AT

LOCATIONS APPROVED BY THE ARCHITECT AT A MAXIMUM SPACING OF 2.0 TIMES THE

- 9.14 CONTROL JOINTS IN CMU WALLS SHALL BE DISCONTINUOUS AT MASONRY BOND BEAMS. BOND BEAM REINFORCING SHALL EXTEND CONTINUOUS WITH MASONRY LAP SPLICES AND CORNER BARS. SEE TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
- 9.15 WHEN REINFORCING IS SPECIFIED, PROVIDE REINFORCING AT EACH SIDE OF CONTROL JOINTS, OPENINGS AND WALL ENDS.
- 9.16 EXTEND REBAR AT WALL OPENINGS A MINIMUM OF 2'-0" PAST THE OPENING AT ALL CORNERS, UNLESS NOTED OTHERWISE. AT WINDOWS, PROVIDE A MINIMUM OF 2#4 BARS AT THE SILLS OF THE WINDOWS, UNLESS NOTED OTHERWISE.
- 9.17 AT CMU PARTITIONS OVER 8'-0" TALL, SUPPORTED BY SLAB ON GRADE, PROVIDE THICKENED SLAB PER TYPICAL DETAILS.
- 9.18 WHERE ANY CMU WALL IS NOT SUPPORTED AT THE TOP, PROVIDE MINIMUM #5@16 VERTICAL REINFORCING, UNLESS NOTED OTHERWISE.
- 9.19 PROVIDE WALL TOP SUPPORT AT 8'-0" O.C. FOR ALL INTERIOR NON-LOAD BEARING CMU WALLS WHERE CONTINUOUS WALL SPAN BETWEEN PERPENDICULAR BRACING WALLS

EXCEEDS 20'-0". SEE TYPICAL DETAILS FOR ADDITIONAL INFORMATION.

- 9.20 PROVIDE HORIZONTAL JOINT REINFORCING IN REINFORCED MASONRY WALLS AS DIRECTED BY THE ARCHITECT. AT WALL CORNERS AND INTERSECTIONS, PROVIDE PREFABRICATED T AND L SHAPES, FIELD BENDING IS NOT PREMITTED. MINIMUM OF LADDER TYPE ZINC COATED CONFORMING TO ASTM A82 HOHMANN & BARNARD 220 LADDER-MESH OR EQUIVALENT AT EVERY OTHER BLOCK COURSE ABOVE FOOTING. REINFORCEMENT SHOULD CONSIST OF TWO OR MORE LONGITUDINAL WIRES, NO. 9 GAUGE OR LARGER, WELDED WITH NO. 9 GAUGE OR LARGER CROSS WIRES. LAP SPLICE HORIZONTAL JOINT REINFORCING A MINIMUM OF 12"
- 9.21 PROVIDE DOVETAIL ANCHORS AT 16" O.C., UNLESS NOTED OTHERWISE, WHERE MASONRY WALLS ABUT CONCRETE SURFACES.
- 9.22 PROVIDE GROUT FILLED LINTEL BLOCKS AT TOP OF ALL CMU WALLS REINFORCED WITH 2#4 BARS CONTINUOUS, UNLESS NOTED OTHERWISE.
- 9.23 CONDUITS, REFRIGERANT PIPING (WITH ANY REQUIRED INSULATION INCLUDED), CONDENSATE DRAIN LINES, ETC. UP TO 2" IN OUTSIDE DIAMETER MAY EXTEND CONTINUOUS THRU MASONRY WALLS & BOND BEAMS. COORDINATE WITH MECHANICAL, ELECTRICAL, PLUMBING, ETC. DRAWINGS FOR SIZE AND LOCATION. DO NOT INTERRUPT CONTINUOUS REINFORCING STEEL IN PLACEMENT OF CONDUITS, PIPING, DRAIN LINES, ETC.
- 9.24 WHERE MASONRY WALLS SUPPORT EARTH ON BOTH SIDES, BACKFILL EACH SIDE SIMULTANEOUSLY.
- 9.25 WHERE TOP OF FOOTING SUPPORTING MASONRY WALLS IS MORE THAN 2'-8" BELOW FINISH FLOOR, PROVIDE #6 AT 16" O.C., UP TO THE FIRST COURSE ABOVE FINISH FLOOR ELEVATION, IN ADDITION TO THE SPECIFIED REINFORCEMENT, UNLESS NOTED
- 9.26 THE MASONRY WALLS ARE "NON-SELF-SUPPORTING". ADEQUATE TEMPORARY SUPPORT MUST BE PROVIDED BY THE CONTRACTOR UNTIL REQUIRED CONNECTIONS OR ELEMENTS ARE IN PLACE. BRACING SHALL BE PER THE FOLLOWING, AND CONTRACTOR SHALL PROVIDE ADDED REINFORCING AND GROUT IF REQUIRED BY THE BRACING.
- A. THE "2012 STANDARD PRACTICE FOR BRACING MASONRY WALLS UNDER CONSTRUCTION". THE "MASONRY WALL BRACING HANDBOOK" AS PUBLISHED BY THE MASON
- CONTRACTORS ASSOCIATION OF AMERICA (MCAA) SHOULD BE USED IN CONJUNCTION WITH THE "STANDARD PRACTICE".
- 9.27 PROVIDE 2 COURSES OF GROUT FILLED OPEN BOTTOM BOND BEAM BLOCKS REINFORCED WITH 2#5 BARS CONTINUOUS AT ALL STEEL STAIR ATTACHMENT LOCATIONS, UNLESS NOTED OTHERWISE. CONTRACTOR COORDINATE EXACT LOCATIONS WITH STEEL STAIR

10.0 COLD-FORMED STEEL FRAMING (NON-LOAD

- 10.1 STRUCTURAL PROPERTIES OF COLD-FORMED STEEL FRAMING SHALL BE COMPUTED IN ACCORDANCE WITH AISI "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING" AND OTHER APPLICABLE AISI STANDARDS, LATEST EDITIONS.
- 10.2 GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL COLD-FORMED STEEL FRAMING. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR FRAMING LAYOUT, SIZES, SPACING, AND SECTIONS. THE GAGE OF THE STUDS, IF SHOWN SHALL NOT BE REVISED UNLESS IT IS REQUIRED TO BE INCREASED AS DIRECTED BY THE COLD-FORMED STEEL DESIGN ENGINEER. COLD-FORMED STEEL FRAMING SHOP DRAWINGS AND DESIGN CALCULATIONS SHALL BE SUBMITTED FOR FILES OF THE STRUCTURAL ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. THE CONTRACTOR SHALL INCLUDE THE COST OF SHOP DRAWINGS AND CALCULATIONS. INCLUDING ENGINEERING FEES, IN THE BASE BID OF THE CONTRACT.

10.3 DEFLECTION LIMITS FOR MEMBERS:

E WALL PARTITIONS:

DL L/240 LL L/240 TL L/180 A. SOFFITS: B. WALL SUPPORTING BRICK: HORIZONTAL DEFLECTION OF L/600 HORIZONTAL DEFLECTION OF L/360 C. WALL SUPPORTING STUCCO: D. WALL SUPPORTING EIFS: HORIZONTAL DEFLECTION OF L/240

HORIZONTAL DEFLECTION OF L/180

- 10.4 COLD-FORMED STEEL FRAMING MEMBERS SHALL NOT BE SUPPORTED BY THE STEEL
- 10.5 COLD-FORMED STEEL FRAMING MEMBERS ABUTTING STRUCTURE SHALL HAVE VERTICAL SLIP TRACKS TO ACCOMMODATE UP TO 1-1/2" VERTICAL MOVEMENT UP OR DOWN.
- 10.6 VERTICAL STUDS INTERRUPTED BY WALL OPENINGS SHALL BE LOCATED EQUALLY ON EACH SIDE OF THE OPENING. PROVIDE EVEN NUMBER OF FULL HEIGHT STUDS ON EACH SIDE OF OPENING. WELD STUD FLANGES TOGETHER WITH 1/8" FILLET WELD 1" LONG SPACED AT 6" O.C.
- 10.7 WELDED CONNECTIONS: E60XX ELECTRODES, MINIMUM SIZE FILLET WELD 1/8". WELDING QUALIFICATION, PROCEDURES AND PERSONNEL SHALL BE CERTIFIED ACCORDING TO AWS D1.3, THE STRUCTURAL WELDING CODE - SHEET STEEL.
- 10.8 PROVIDE WALL BRACING, CONNECTION DETAILS, WINDOW/DOOR HEADERS, ETC AS RECOMMENDED BY THE STUD MANUFACTURER FOR COLD-FORMED STEEL FRAMING
- 10.9 TRACK SHALL BE SCREWED TO STUD WITH 2#8 TEK SCREWS EACH FLANGE, OR AS REOUIRED BY DESIGN.
- FOR ALL NON-LOAD BEARING COLD-FORMED STEEL FRAMING. 10.11 ALL CONNECTIONS OF THE COLD-FORMED STEEL FRAMING MEMBERS TO THE STRUCTURE SHALL BE FULLY DETAILED ON THE COLD-FORMED STEEL FRAMING SHOP

10.10 PROVIDE SHOP DRAWINGS SHOWING PLANS, ELEVATIONS AND CONNECTION DETAILS

DRAWINGS. ANY SPECIAL LOADING IMPOSED ON THE STRUCTURE SHALL BE CLEARLY

11.0 STRUCTURAL COLD-FORMED STEEL FRAMING (LOAD BEARING)

- 11.1 STRUCTURAL PROPERTIES OF COLD-FORMED STEEL FRAMING SHALL BE COMPUTED IN ACCORDANCE WITH AISI "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING" AND OTHER APPLICABLE AISI STANDARDS, LATEST EDITIONS.
- 11.2 GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL COLD-FORMED STEEL FRAMING. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR FRAMING LAYOUT. SIZES. SPACING. AND SECTIONS. THE GAGE OF THE STUDS. IF SHOWN SHALL NOT BE REVISED UNLESS IT IS REQUIRED TO BE INCREASED AS DIRECTED BY THE COLD-FORMED STEEL DESIGN ENGINEER. COLD-FORMED STEEL FRAMING SHOP DRAWINGS AND DESIGN CALCULATIONS SHALL BE SUBMITTED FOR FILES OF THE STRUCTURAL ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. THE CONTRACTOR SHALL INCLUDE THE COST OF SHOP DRAWINGS AND CALCULATIONS, INCLUDING ENGINEERING FEES, IN THE BASE BID OF THE CONTRACT.
- 11.3 DEFLECTION LIMITS FOR MEMBERS:

E WALL PARTITIONS:

INDICATED ON THE SHOP DRAWINGS.

Α.	SOFFITS:	DL L/240 LL L/240 TL L/180
В.	WALL SUPPORTING BRICK:	HORIZONTAL DEFLECTION OF L/600
С.	WALL SUPPORTING STUCCO:	HORIZONTAL DEFLECTION OF L/360
D.	WALL SUPPORTING EIFS:	HORIZONTAL DEFLECTION OF L/240

11.4 COLD-FORMED STEEL FRAMING MEMBERS SHALL NOT BE SUPPORTED BY THE STEEL ROOF DECK.

HORIZONTAL DEFLECTION OF L/180

- 11.5 PROVIDE WALL BRACING, CONNECTION DETAILS, WINDOW/DOOR HEADERS, ETC AS RECOMMENDED BY THE STUD MANUFACTURER FOR COLD-FORMED STEEL FRAMING MEMBERS, OR AS REQUIRED BY DESIGN.
- 11.6 TRACK SHALL BE SCREWED TO STUD WITH 2#8 TEK SCREWS EACH FLANGE, OR AS
- 11.7 FASTEN TRACKS TO CONCRETE SLAB WITH HILTI HIT X-U 0.157" DIAMETER POWDER ACTUATED FASTENERS @ 24 O.C. WITH 1" EMBEDMENT, OR AS REQUIRED BY DESIGN. LOCATE A MINIMUM OF TWO (2) FASTENERS AT JAMBS.
- 11.8 VERTICAL STUDS SHALL BE 100% END BEARING. GAP BETWEEN THE LOAD-BEARING STUD AND THE TRACK SHALL NOT EXCEED 1/8 INCH.
- 11.9 VERTICAL STUDS INTERRUPTED BY WALL OPENINGS SHALL BE LOCATED EQUALLY ON EACH SIDE OF THE OPENING, OR AS REQUIRED BY DESIGN. PROVIDE EVEN NUMBER OF FULL HEIGHT STUDS ON FACH STDE OF OPENING. WELD STUD FLANGES TOGETHER WITH 1/8" FILLET WELD 1" LONG SPACED AT 16" O.C.
- 11.10 WELDED CONNECTIONS: E60XX ELECTRODES, MINIMUM SIZE FILLET WELD 1/8". WELDING QUALIFICATION, PROCEDURES AND PERSONNEL SHALL BE CERTIFIED ACCORDING TO AWS D1.3, THE STRUCTURAL WELDING CODE - SHEET STEEL.
- 11.11 WALLS SHALL BE SHEATHED WITH EITHER GYPSUM OR PLYWOOD SHEATHING. FOR WALLS WITHOUT SHEATHING, SEE TYPICAL DETAILS.
- 11.12 PROVIDE SHOP DRAWINGS SHOWING PLANS, ELEVATIONS AND CONNECTION DETAILS FOR ALL LOAD-BEARING COLD-FORMED STEEL FRAMING.
- 11.13 ALL CONNECTIONS OF THE COLD-FORMED STEEL FRAMING MEMBERS TO THE STRUCTURE SHALL BE FULLY DETAILED ON THE COLD-FORMED STEEL FRAMING SHOP DRAWINGS. ANY SPECIAL LOADING IMPOSED ON THE STRUCTURE SHALL BE CLEARLY INDICATED ON THE SHOP DRAWINGS.

12.0 PRE-MANUFACTURED COLD-FORMED STEEL **TRUSSES**

- 12.1 STRUCTURAL PROPERTIES OF COLD-FORMED STEEL FRAMING SHALL BE COMPUTED IN ACCORDANCE WITH AISI "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING" AND OTHER APPLICABLE AISI STANDARDS, LATEST EDITIONS.
- 12.2 GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL COLD-FORMED STEEL TRUSSES AND RAFTERS, SEE SPECIFICATION 05400.
- 12.3 IN ADDITION TO PROVIDING THE COLD-FORMED STEEL TRUSS SYSTEM CALLED FOR IN THESE DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:
- A. DESIGN OF THE TRUSS SYSTEM AND RAFTER SYSTEM, COLLECTIVELY THE
- B. ENGINEERING PROVIDED BY MANUFACTURER SHALL BE A COMPLETE PACKAGE SIMILAR TO THE "WORKS" PACKAGE PROVIDED BY AEGIS METAL FRAMING OR
- C. DESIGN OF ALL TRUSSES & THEIR COMPONENTS, TEMPORARY AND PERMANENT BRACING, TRUSS TO TRUSS CONNECTIONS, TRUSS TO STRUCTURE CONNECTIONS, MISCELLANEOUS STEEL CLOSURE PLATES, ETC.
- D. WHERE TRUSSES ARE SUPPORTED BY CONCRETE AND THE TRUSS TO STRUCTURE CONNECTION DESIGNED BY THE CONTRACTOR CALLS FOR EMBED STEEL PLATES, SUCH PLATES SHALL ALSO BE DESIGNED BY THE CONTRACTOR. THE DESIGN SHALL MEET THE PROVISIONS OF ACI 318-19 CHAPTER 17.
- E. DIMENSIONED TRUSS FRAMING PLAN.
- F. TRUSS ERECTION PLAN.
- G. PLAN SHOWING LAYOUT AND DETAILS OF ANY TEMPORARY AND PERMANENT BRACING REOUIRED.
- H. DETAILED AND DIMENSIONED PLAN SHOWING THE LOCATION AND TYPE OF EMBEDS OR CONNECTION MATERIAL REQUIRED TO ANCHOR THE TRUSSES TO THE STRUCTURE. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS REQUIRED TO ANCHOR THE TRUSSES TO THE STRUCTURE.
- I. CALCULATIONS FOR THE ABOVE SHALL BE SUBMITTED FOR THE FILES OF THE ARCHITECT AND ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. THE ENGINEER SHALL HAVE PERSONALLY SUPERVISED THE DESIGN AND PREPARATIONS OF THE CALCULATIONS. SHOP DRAWINGS CONTAINING CONNECTIONS FOR WHICH THE CALCULATIONS HAVE NOT BEEN RECEIVED WILL BE RETURNED UNCHECKED AS AN INCOMPLETE SUBMITTAL.

GENERAL NOTES CONTINUED

12.4 TRUSS MANUFACTURER SHALL DESIGN FOR THE FOLLOWING SUPERIMPOSED LOADS:

Α.	TOP CHORD DEAD LOAD10 PSF
В.	BOTTOM CHORD DEAD LOAD10 PSF
С.	TOP CHORD LIVE LOAD20 PSF
D.	BOTTOM CHORD LIVE LOADN/A

12.5 DEFLECTION LIMITS FOR MEMBERS:

.Z.J	DEFL	ECTION LIMITS FOR MEMBERS.			
	Α.	SOFFITS:	DL L/240	LL L/360	TL L/18
	В.	ROOF:	DL L/240	LL L/360	TL L/18
	С.	END WALL GABLE SUPPORTING BRICK:	HORIZONTAL	DEFLECTION	OF L/60
	D.	END WALL GABLE SUPPORTING STUCCO:	HORIZONTAL	DEFLECTION	OF L/36

E. END WALL GABLE SUPPORTING EIFS: HORIZONTAL DEFLECTION OF L/240

- 12.6 DESIGN TRUSSES TO RESIST THE WIND UPLIFT LOADING FROM THE COMPONENTS AND CLADDING WIND LOAD TABLE PROVIDED IN THE TYPICAL DETAILS.
- 12.7 IN ADDITION TO THE ABOVE LOADS, TRUSSES SHALL BE DESIGNED FOR CONCENTRATED LOADS HUNG FROM OR SUPPORTED BY TRUSSES. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR LOADING INFORMATION AND LOCATION. LOADING AS REQUIRED BY OTHER SUBCONTRACTORS, SUCH AS FIRE PROTECTION, SHALL BE COORDINATED BY THE GENERAL CONTRACTOR.
- 12.8 ALL TEMPORARY AND PERMANENT BRACING MEMBERS AND CONNECTIONS REQUIRED FOR TRUSSES SHALL BE DETAILED ON THE TRUSS MANUFACTURER'S ERECTION PLANS. BRACING MEMBERS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
- 12.9 TEMPORARY BRACING SHALL NOT IMPOSE ANY FORCE ON THE SUPPORTING STRUCTURE. PERMANENT BRACING FORCES SHALL BE TRANSFERRED TO THE ROOF DIAPHRAGM BY THE BRACING DESIGN PROVIDED BY THE TRUSS MANUFACTURER.
- 12.10 WELDED CONNECTIONS: E60XX ELECTRODES, MINIMUM SIZE FILLET WELD 1/8". WELDING QUALIFICATION, PROCEDURES, AND PERSONNEL SHALL BE CERTIFIED ACCORDING TO AWS D1.3, THE STRUCTURAL WELDING CODE - SHEET STEEL.

13.0 POST-INSTALLED REINFORCING, ANCHORS AND FASTENERS

- 13.1 POST-INSTALLED ANCHORS AND/OR REINFORCING SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS AND/OR REINFORCING IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS AND/OR REINFORCING.
- 13.2 THE BELOW PRODUCTS ARE THE DESIGN BASIS FOR THIS PROJECT. PRODUCT DIAMETER AND EMBEDMENT SHALL BE SHOWN IN THE DETAILS.

13.3 FOR ANCHORING INTO CONCRETE:

- A. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. PRE-APPROVED PRODUCTS INCLUDE:
- 1. SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-2713 & IAPMO-UES ER-493) 2. SIMPSON STRONG-TIE "STRONG-BOLT 2" (ICC-ES ESR-3037) 3. SIMPSON STRONG-TIE "TITEN-HD ROD HANGER" (ICC-ES ESR-2713) 4. SIMPSON STRONG-TIE "TITEN TURBO" (IAPMO-UES ER-712) - FOR UNCRACKED CONCRETE ONLY
- 5. HILTI KWIK HUS-EZ (KH-EZ), KH-EZ CRC, KH-EZ SS316, KH-EZ C, KH-EZ E, KH-EZ-I, AND KH-EZ P SCREW ANCHOR SAFE SET SYSTEM WITH HOLLOW DRILL BIT AND VACUUM (ICC ESR-3027)
- 6. HILTI KWIK BOLT-TZ2 EXPANSION ANCHOR SAFE SET SYSTEM WITH HOLLOW DRILL BIT AND VACUUM AND SI-AT-A22 TOOL WITH ADAPTIVE TORQUE FOR APPLICABLE SIZES (ICC ESR-4266)
- 7. HILTI KWIK BOLT 1 EXPANSION ANCHOR SAFE SET SYSTEM WITH HOLLOW DRILL BIT AND VACUUM AND SI-AT-A22 TOOL WITH ADAPTIVE TORQUE FOR APPLICABLE SIZES (ICC ESR-678)
- 8. HILTI HDA UNDERCUT ANCHORS (ICC ESR 1546) 9. HILTI HSL-4 EXPANSION ANCHORS (ICC ESR 4386) 10.DEWALT SCREW-BOLT+ (ICC-ES ESR-3889)
- 11.DEWALT POWER-STUD+ SD2 (ICC-ES ESR-2502)
- 12. DEWALT POWER-STUD SD1 (ICC-ES ESR-2818) 13. DEWALT HANGERMATE+ (ICC-ES ESR-3889)
- 14. DEWALT CCU+ UNDERCUT (ICC-ES ESR-4810) 15.DEWALT POWER-BOLT+ (ICC-ES ESR-3260)
- B. MECHANICAL ANCHORS FOR USE IN THE UNDER SIDE OF NORMAL WEIGHT HOLLOW CORE AND POST TENSION SLAB WHERE EMBEDMENT DEPTH MUST NOT EXCEED ¾". PRE-APPROVED PRODUCTS INCLUDE:
- 1. DEWALT MINI-UNDERCUT+ (ICC-ES ESR-3912) 2. HILTI HDP-P TZ DROP-IN ANCHOR (ICC ESR-4236)
- ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. DESIGN ADHESIVE BOND STRENGTH HAS BEEN BASED ON ACI 355.4 TEMPERATURE CATEGORY B WITH INSTALLATIONS INTO DRY HOLES DRILLED USING A CARBIDE DRILL BIT INTO CRACKED CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS. ADHESIVE ANCHORS REQUIRING CERTIFIED INSTALLATIONS, SUCH AS HORIZONTAL TO UPWARD INCLINED ORIENTATION UNDER SUSTAINED TENSION LOADING, SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER ACI 318-19 26.7.2 & 26.7.2(e). INSTALLATIONS REQUIRING CERTIFIED INSTALLERS SHALL BE INSPECTED PER ACI 318-19 26.7.2 & 26.7.2(e). PRE-APPROVED PRODUCTS INCLUDE:
- 1. SIMPSON STRONG-TIE "SET-3G" (ICC-ES ESR-4057) 2. SIMPSON STRONG-TIE "AT-XP" (IAPMO-UES ER-263)
- 3. SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508) 4. HILTI HIT-HY 200 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM WITH CONTINUOUSLY DEFORMED REBAR (ICC ESR-4868) 5. HILTI HIT-RE 500 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT
- AND VACUUM WITH CONTINUOUSLY DEFORMED REBAR (ICC ESR-3814) 6. DEWALT PURE110+ FOR WARM WEATHER/SLOW CURE (ICC-ES ESR-3298); FOR ANCHORS AND REBAR: WHEN DEWALT DUSTX+ EXTRACTION SYSTEM IS USED, TRADITIONAL HOLE CLEANING METHODS USING STEEL BRUSHES AND
- COMPRESSED DRY AIR MAY BE COMPLETELY OMITTED PER ICC-ES ESR-3298 7. DEWALT AC200+ FOR COLD WEATHER/RAPID CURE (ICC-ES ESR-4027); FOR ANCHORS AND REBAR: WHEN DEWALT DUSTX+ EXTRACTION SYSTEM IS USED, TRADITIONAL HOLE CLEANING METHODS USING STEEL BRUSHES AND COMPRESSED DRY AIR MAY BE COMPLETELY OMITTED PER ICC-ES ESR-4027
- POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:
- 1. SIMPSON STRONG-TIE "GAS ACTUATED PINS" (ICC-ES ESR-2811) 2. SIMPSON STRONG-TIE "POWDER ACTUATED PINS" (ICC-ES ESR-2138) 3. HILTI "UNIVERSAL KNURLED SHANK FASTENERS" X-U (ICC ESR-2269) 4. DEWALT "POWER DRIVEN FASTENERS", POWDER ACTUATED (ICC-ES-ESR 2024) 5. DEWALT "TRAK-IT C5", GAS ACTUATED (ICC-ES-ESR 3275)

13.4 FOR ANCHORING INTO MASONRY:

- A. SOLID-GROUTED CONCRETE MASONRY
- 1. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC01 OR ICC-ES AC106. PRE-APPROVED PRODUCTS INCLUDE:
 - a. SIMPSON STRONG-TIE "TITEN-HD" & "STAINLESS STEEL TITEN HD"
 - (ICC-ES ESR-1056) b. SIMPSON STRONG-TIE "STRONG-BOLT 2" (IAPMO-UES ER-240)
- c. SIMPSON STRONG-TIE "WEDGE-ALL" (ICC-ES ESR-1396) d. SIMPSON STRONG-TIE "TITEN TURBO" (IAMPO-UES ER-716) e. HILTI KH-EZ, KH-EZ CRC, KH-EZ SS316, KH-EZ C, AND KH-EZ P SCREW
- ANCHORS (ICC ESR-3056) f. HILTI KWIK BOLT-1 EXPANSION ANCHOR (ICC ER-677) q.HILTI KWIK BOLT-TZ2 EXPANSION ANCHOR (ICC ESR-4561) h. DEWALT "SCREW-BOLT+" (ICC-ES ESR 4042)
- 2. ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC58. PRE-APPROVED PRODUCTS INCLUDE:

i.DEWALT "POWER-STUD+ SD1" (ICC-ES ESR 2966)

e.DEWALT AC100+ GOLD (ICC-ES ESR-3200)

- a. SIMPSON STRONG-TIE "AT-XP" (IAPMO-UES ER-281) b. SIMPSON STRONG-TIE "SET-XP" (IAPMO-UES ER-265) c. HILTI HIT-HY 270 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND
- VACUUM (ICC ESR-4143); STEEL ANCHOR ELEMENT SHALL BE HILTI-HAS CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR d. HILTI HIT-HY 200 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM (ICC ESR-4878)
- 3. POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:
- a. SIMPSON STRONG-TIE "GAS ACTUATED PINS" (ICC-ES ESR-2811) b. SIMPSON STRONG-TIE "POWDER ACTUATED PINS" (ICC-ES ESR-2138) c. HILTI "UNIVERSAL KNURLED SHANK FASTENERS" X-U (ICC ESR-2269) d. DEWALT "TRAK-IT C5", GAS ACTUATED (ICC-ES-ESR 3275)
- B. HOLLOW CONCRETE MASONRY
 - 1. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC106. PRE-APPROVED PRODUCTS INCLUDE:
 - a. SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-1056) b. SIMPSON STRONG-TIE "TITEN TURBO" (IAPMO-UES ER-716)
 - 2. ADHESIVE FOR REBAR AND ANCHORS WITH SCREEN TUBES SHALL HAVE BEEN TESTED FOR USE IN ACCORDANCE WITH ICC-ES AC58. THE APPROPRIATE SCREEN TUBE SHALL BE USED AS RECOMMENDED BY THE ADHESIVE MANUFACTURER. PRE-APPROVED PRODUCTS INCLUDE:
 - a. SIMPSON STRONG-TIE "SET-XP" (IAPMO-UES ER-265) b. HILTI HIT-HY 270 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM (ICC ESR-4143); STEEL ANCHOR ELEMENT SHALL BE HILTI-HAS CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR. THE APPROPRIATE SIZE SCREEN TUBE SHALL BE USED PER ADHESIVE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
 - 3. POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:
- a. SIMPSON STRONG-TIE "GAS ACTUATED PINS" (ICC-ES ESR-2811) b. SIMPSON STRONG-TIE "POWDER ACTUATED PINS" (ICC-ES ESR-2138) c. HILTI "DRYWALL TRACK FASTENERS" X-DW (ICC ESR-1663)

c.DEWALT AC100+ GOLD (ICC-ES ESR-3200)

- UNREINFORCED BRICK MASONRY (URM): ADHESIVE FOR REBAR AND ANCHORS WITH SCREEN TUBES SHALL HAVE BEEN TESTED FOR USE IN ACCORDANCE WITH ICC-ES AC60. THE APPROPRIATE SCREEN TUBE SHALL BE USED AS RECOMMENDED BY THE ADHESIVE MANUFACTURER. PRE-APPROVED PRODUCTS INCLUDE:
- 1. SIMPSON STRONG-TIE "ET-HP" (ICC-ES ESR-3638) 2. HILTI HIT-HY 270 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM (ICC ESR-4143); STEEL ANCHOR ELEMENT SHALL BE HILTI-HAS CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR. THE APPROPRIATE SIZE SCREEN TUBE SHALL BE USED PER ADHESIVE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. 3. DEWALT "AC100+ GOLD" (ICC-ES ESR-4105)
- 13.5 FOR FASTENING INTO STEEL: POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:
- A. SIMPSON STRONG-TIE "GAS ACTUATED PINS" (ICC-ES ESR-2811)

B. SIMPSON STRONG-TIE "POWDER ACTUATED PINS" (ICC-ES ESR-2138)

- C. HILTI FASTENERS IN LIEU OF #12 TEK SCREWS: 1. HILTI S-MD 12-24X1-5/8 HWH5 SCREWS FOR STUDS, JOISTS AND BEAMS 16 $GA \leq TF \leq 1/4$ "
- 2. HILTI X-HSN 24 PINS FOR JOISTS AND BEAM 1/8" \leq TF \leq 3/8" 3. HILTI X-ENP 19 L15 PINS FOR BEAMS TF $\geq 1/4$ ". . DEWALT "POWER DRIVEN FASTENERS", POWDER ACTUATED (ICC-ES-ESR 2024)
- E. DEWALT "TRAK-IT C5", GAS ACTUATED (ICC-ES-ESR 3275) 13.6 REFER TO THE PROJECT BUILDING CODE AND/OR EVALUATION REPORT FOR SPECIAL

INSPECTIONS AND PROOF LOAD REQUIREMENTS.

- 13.7 SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE LISTED MAY BE SUBMITTED BY THE CONTRACTOR TO THE FOR FOR REVIEW NO LESS THAN TWO WEEKS PRIOR TO BID. SUBSTITUTIONS WILL ONLY BE CONSIDERED FOR PRODUCTS HAVING A RESEARCH REPORT RECOGNIZING THE PRODUCT FOR THE APPROPRIATE APPLICATION UNDER THE PROJECT BUILDING CODE. SUBSTITUTION REQUESTS SHALL INCLUDE CALCULATIONS PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATE THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE EQUIVALENT. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP. IN-SERVICE TEMPERATURE, AND INSTALLATION TEMPERATURE.
- 13.8 INSTALL ANCHORS PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS
- (MPII), OR AS INCLUDED IN THE ANCHOR PACKAGING. 13.9 THERE IS TO BE NO GAP BETWEEN CONNECTED PARTS, UNLESS SHIMS ARE PROVIDED.
- ANCHORS ARE TO SECURE CONNECTED PARTS TOGETHER SNUGLY AND SECURELY. 13.10 OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING THE MANUFACTURER'S
- INSTRUCTIONS AND INSTALLER MUST BE ACI CERTIFIED. 13.11 THE CONTRACTOR SHALL ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING
- ANCHORS. 13.12 THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S SPECIAL INSPECTION AGENCY FOR CONTINUOUS SPECIAL INSPECTION OF ADHESIVE ANCHORS AND PERIODIC INSPECTION OF MECHANICAL ANCHORS, SEE SPECIAL INSPECTION SCHEDULE FOR

ADDITIONAL INFORMATION.

13.13 ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.

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13.14 EXISTING REINFORCING BARS AND/OR CONDUIT IN THE CONCRETE STRUCTURE MAY

EXISTING REBAR AND/OR CONDUIT. UNLESS NOTED ON THE DRAWINGS THAT THE

DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING

BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS BY GPR, X-RAY, HILTI PS

14.1 PROTECTIVE COVER WALKWAYS AND PREFABRICATED CANOPIES SHALL BE CONSIDERED

ENGINEERED BY THE CANOPY MANUFACTURER AND CONTRACTOR UNDER THE DIRECT

14.3 CALCULATIONS SHALL ACCOMPANY THE SHOP DRAWINGS AND SHALL INCLUDE DESIGN

14.4 PROTECTIVE COVER WALKWAY AND PREFABRICATED CANOPY SHOP DRAWINGS SHALL BE

FOOTINGS, MEMBERS, CONNECTIONS AND ATTACHMENT TO STRUCTURE.

OF ALL WALKWAY/CANOPY SYSTEM COMPONENTS INCLUDING, BUT NOT LIMITED TO,

SUBMITTED TO INCLUDE A FULL DESCRIPTION OF ALL CANOPY MEMBERS, INCLUDING

COLUMNS, BEAMS, FOOTINGS, FACIA, ETC. SHOP DRAWINGS SHALL BEAR THE SEAL

OF THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS

14.5 IF PROTECTIVE COVER WALKWAYS AND PREFABRICATED CANOPIES SHALL BE ATTACHED

TO BUILDING, MINIMUM 16" DEEP BOND BEAM IS TO BE PROVIDED WITHIN THE

MINIMUM 16" DEEP BOND BEAM IS TO BE CONSTRUCTED ON (2) 8" DEEP FORM

LOAD-BEARING MASONRY WALL FOR WALKWAY AND CANOPY ANCHORAGE AS REQUIRED

BLOCKS WITH 2#5 CONTINUOUS IN EACH COURSE. CONNECTIONS TO BUILDING BY

CANOPY MANUFACTURER, CONTRACTOR COORDINATE. DO NOT ANCHOR WALKWAY AND

CANOPY TO VENEER. ANCHOR WALKWAY AND CANOPY INTO LOAD-BEARING MASONRY

WALL WITH THREADED RODS IN PIPE SLEEVES. FOR ADDITIONAL INFORMATION, SEE

SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE

14.2 PROTECTIVE COVER WALKWAYS AND PREFABRICATED CANOPIES SHALL BE FULLY

A DEFERRED SUBMITTAL TO THE BUILDING INSPECTION AGENCY.

BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL

POST-INSTALLED ANCHORS AND/OR REINFORCING TO AVOID CONFLICTS WITH

1000 X-SCAN, CHIPPING, OR OTHER MEANS.

14.0 PREFABRICATED CANOPY

PROJECT IS LOCATED.

ARCHITECTURAL DRAWINGS.

CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. CARE SHALL BE TAKEN IN PLACING

tel 205-824-5200 fax 205-824-5280 Job Number 22-193

LATHAN - BRYANT - CALMA

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SHEET TITLE: **GENERAL NOTES** CONTINUED

PROJ. MGR.: HCW DRAWN: DATE: JANUARY 31, 2023

REVISIONS

JOB NO. **22-20**

SHEET NO:

2 OF 19

STRUCTURAL DESIGN GROUP 300 Chase Park South, Suite 125 Hoover, AL 35244 tel 205-824-5200

fax 205-824-5280 Job Number 22-193 LATHAN ARCHITECTS LATHAN - BRYANT - CALMA

SCHOOL
LN, ALABAMA 35096
OF EDUCATION CLASSROOM ADDITION TO LINCOLN HIGH

A B A WAR No. 22596 PROFESSIONAL

SHEET TITLE: TYPICAL DETAILS

PROJ. MGR.: DRAWN: DATE: JANUARY 31, 2023

REVISIONS

JOB NO. **22-20**

SHEET NO:

3 OF 19



SPLICE

- 2#5 BOT & 2#5 TOP 2#5 BOT & 2#5 TOP | 2#5 BOT & 2#5 TOP | 2#6 BOT & 2#6 TOP 2#6 BOT & 2#6 TOP | 2#6 BOT & 2#6 TOP 2#6 BOT & 2#6 TOP | 2#6 BOT & 2#6 TOP 2#6 BOT & 2#6 TOP | 2#6 BOT & 2#6 TOP
- PROVIDE 24" MINIMUM BEARING FOR ALL LINTELS. FILL CELLS CONTINUOUS. (JAMB BARS OF SAME SIZE AS VERTICAL WALL REINFORCING BARS.)
- SOLID AT EACH SIDE OF OPENING AND REINFORCE WITH 1#5 BAR
- SHORE LINTEL UNTIL MORTAR AND GROUT HAVE SET AND CURED. PROVIDE 8" DEEP BOND BEAM REINFORCED WITH 2#5 CONT AT BOTTOM OF ALL OPENINGS. EXTEND 24" PAST OPENING ON EACH

MAXIMUM

DEPTH

16

OPENING

WIDTH

4'-0"

6'-0"

8'-0"

STORM SHELTER LOAD **BEARING STACK BOND** MASONRY LINTEL SCHEDULE

			JOHLDOLL							
MAXIMUM		LINTEL DIMENSIONS AND REINFORCING								
OPENING WIDTH	DEPTH	8" WALL	12" WALL							
4'-0"	24	2#5 BOT & 2#5 TOP	2#5 BOT & 2#5 TOP							
6'-0"	32	2#5 BOT & 2#5 TOP	2#6 BOT & 2#6 TOP							
8'-0"	48	2#6 BOT & 2#6 TOP	2#6 BOT & 2#6 TOP							
10'-0"	56	2#6 BOT & 2#6 TOP	2#6 BOT & 2#6 TOP							
	2									

- 1. PROVIDE 24" MINIMUM BEARING FOR ALL LINTELS. FILL CELLS SOLID AT EACH SIDE OF OPENING AND REINFORCE WITH MINIMUM 1#5 BAR CONTINUOUS. (JAMB BARS OF SAME SIZE AS VERTICAL WALL REINFORCING BARS.
- 2. SHORE LINTEL UNTIL MORTAR AND GROUT HAVE SET AND CURED. 3. PROVIDE 16" DEEP BOND BEAM REINFORCED WITH 2#5

12" WALL

MAX HEIGHT OF WALI

ABOVE LINTEL

22'-0"

9'-4"

4'-8"

16'-0"

12**'**-0"

CONTINUOUS TOP AND BOTTOM AT THE BOTTOM OF ÄLL STORM SHELTER OPENINGS (DOORS, WINDOWS, LOUVERS, ETC.). EXTEND 24" PAST OPENING ON EACH SIDE OF OPENING

REINFORCING

2#5 BOT & 2#4 TOP

2#5 BOT & 2#4 TOP

2#6 BOT & 2#4 TOP

2#7 BOT & 2#5 TOP

1#4 BOT

2#4 BOT

NON-LOAD BEARING

STACK BOND MASONRY LINTEL SCHEDULE

LINTEL DIMENSIONS AND REINFORCING

MAX HEIGHT OF WALL

ABOVE LINTEL

20'-0"

10'-0"

4'-0"

15'-4"

10'-0"

7'-4"

1. DO NOT USE THIS SCHEDULE IF WALL IS LOAD BEARING SUPPORTING ANYTHING OTHER THAN WALL WEIGHT

REINFORCE WITH 1#5 BAR CONTINUOUS.

3. WHERE MAXIMUM HEIGHT OF WALL ABOVE LINTEL IS EXCEEDED, PROVIDE ADDITIONAL LINTELS EQUALLY SPACED ABOVE TO LIMIT WALL HEIGHTS ABOVE LINTEL TO THAT SHOWN IN THE TABLE ABOVE.

5. PROVIDE 8" DEEP BOND BEAM REINFORCED WITH 2#4 CONT AT BOTTOM OF ALL OPENINGS. EXTEND 2'-0"

8" WALL

REINFORCING

1#5 BOT & 1#4 TOP

1#6 BOT & 1#5 TOP

1#7 BOT & 1#5 TOP

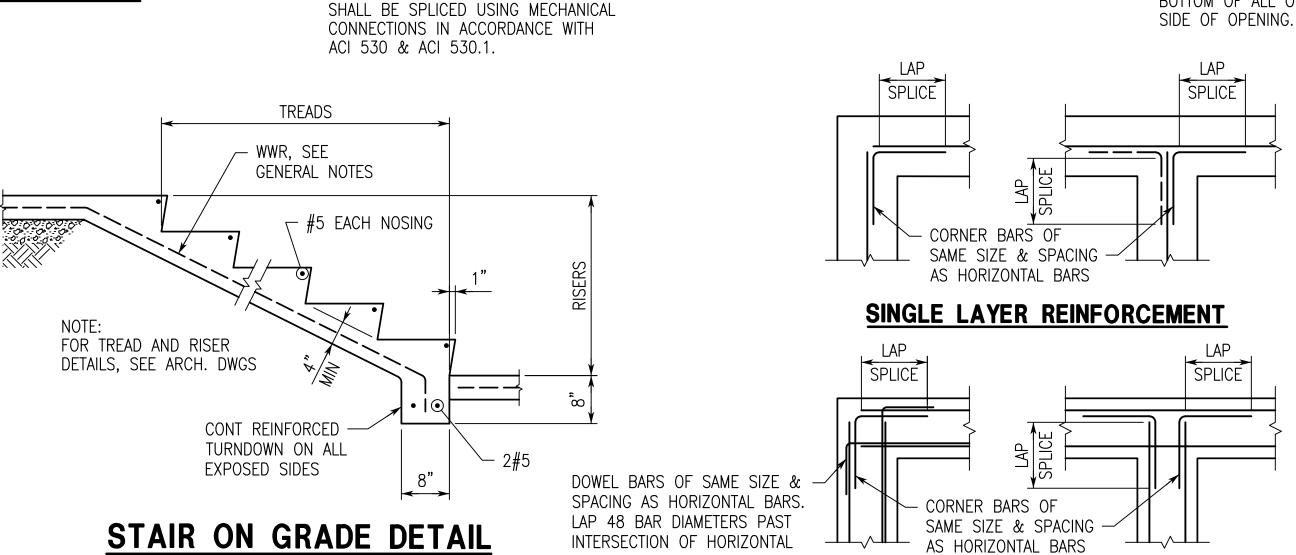
1#8 BOT & 1#5 TOP

4. SHORE LINTEL UNTIL MORTAR AND GROUT HAVE SET AND CURED.

1#4 BOT

1#4 BOT

PAST OPENING ON EACH SIDE OF OPENING.



OPENING

WIDTH

L4x4x3/8 MINIMUM

LARGER | CONTACT ENGINEER

GALVANIZED

ARCH. DWGS.

L6x4x3/8 MINIMUM (LLV)

PROVIDE 8" MINIMUM BEARING FOR ALL LINTELS.

OUTSTANDING LEG WITH MINIMUM VENEER SUPPORT

REQUIREMENT(S) AND WITH DETAILS INDICATED ON

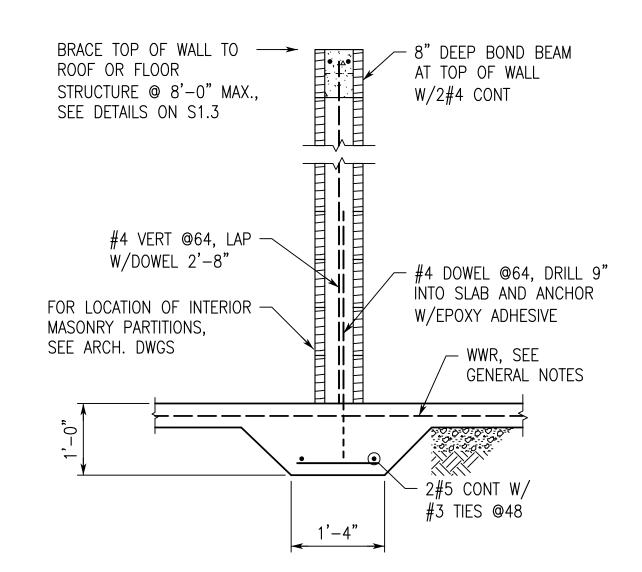
ALL EXPOSED LINTEL ANGLES TO BE HOT DIP

3. CONTRACTOR TO COORDINATE DIMENSION OF

WxL (SEE PLAN) COLUMN BASE AND **FOOTING DETAIL**

SEE PLAN

FOR FOOTING REINF,



STEP FOOTING DOWN AS REQUIRED TO KEEP

FOOTING BELOW PIPING. FOR LOCATION, SEE

ON FOUNDATION PLANS, SEE PLUMBING PLANS.

FOUNDATION PLANS. FOR LOCATION NOT SHOWN

PIPING, CONTRACTOR

THROUGH WALL

FOOTING/FOUNDATION WALL AT PIPING

COORDINATE. PROVIDE

OVÉRSIZED PIPE SLEÉVÉ,

2'-0"

MOISTURE PROOF ISOLATION

WWR, SEE

GENERAL NOTES

MATERIAL AROUND PIPING

CONTINUOUS STRIP FOOTING

COLUMN, SEE - -

__ __ __ __

STD HOOK

PLAN

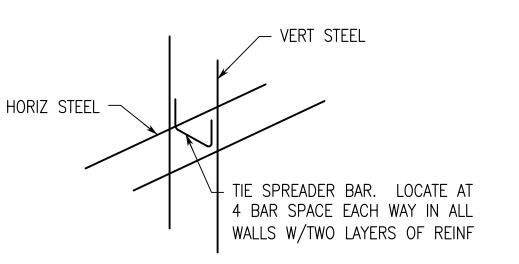
CONCRETE SLAB

ON GRADE, SEE

GENERAL NOTES

FOR REINFORCING SEE SECTIONS

INTERIOR PARTITION WALL ON THICKENED SLAB ON GRADE DETAIL



FORMED CONCRETE WALL OR MASONRY WALL;

MASONRY REINFORCING

LAP SPLICE LENGTHS

18.0

24.0

30.0

43.0

60.0

72.0

82.0

LAP SPLICE LENGTHS APPLY TO BOTH

HORIZONTAL AND VERTICAL REINFORCING.

REINFORCEMENT LARGER THAN NO. 9 BAR

(IN.)

18.0

29.0

45.0

54.0

63.0

72.0

82.0

BAR SIZE CENTERED

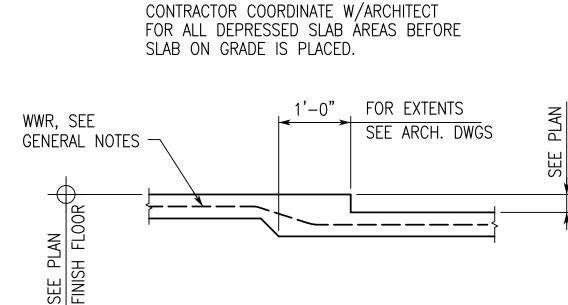
NOTES:

DOWEL VERTICAL REINFORCING TO FOOTING

W/HOOKS. MATCH WALL THICKNESS AND

REINFORCING PER SECTIONS

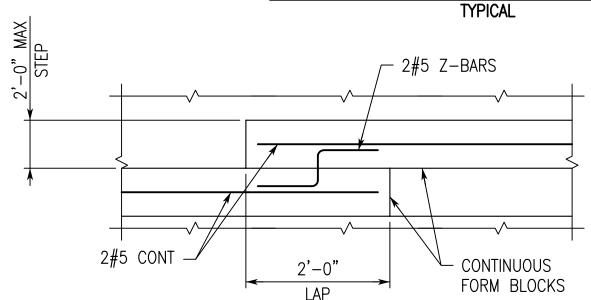
WALL STEEL TIE-SPREADER DETAIL **TYPICAL**



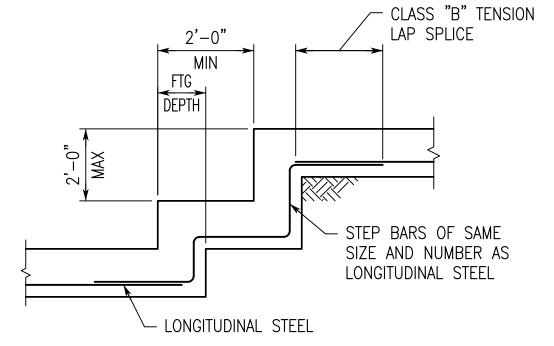
DEPRESSED SLAB ON GRADE DETAIL

NOTE: ALL LAP SPLICES CLASS "B" TENSION FOOTING, SLAB OR WALL CORNER REINFORCING DETAIL 2#5 Z-BARS

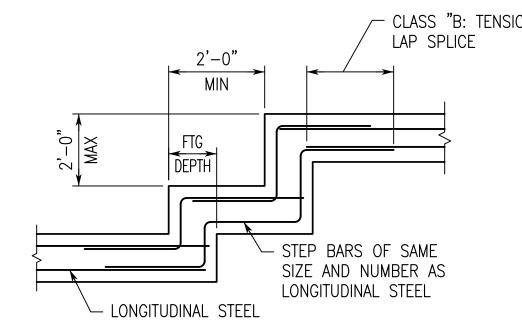
DOUBLE LAYER REINFORCEMENT



MASONRY BOND BEAM STEP DETAIL

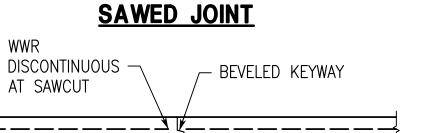


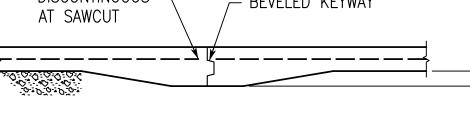
FOOTING STEP DETAIL



FOOTING STEP DETAIL

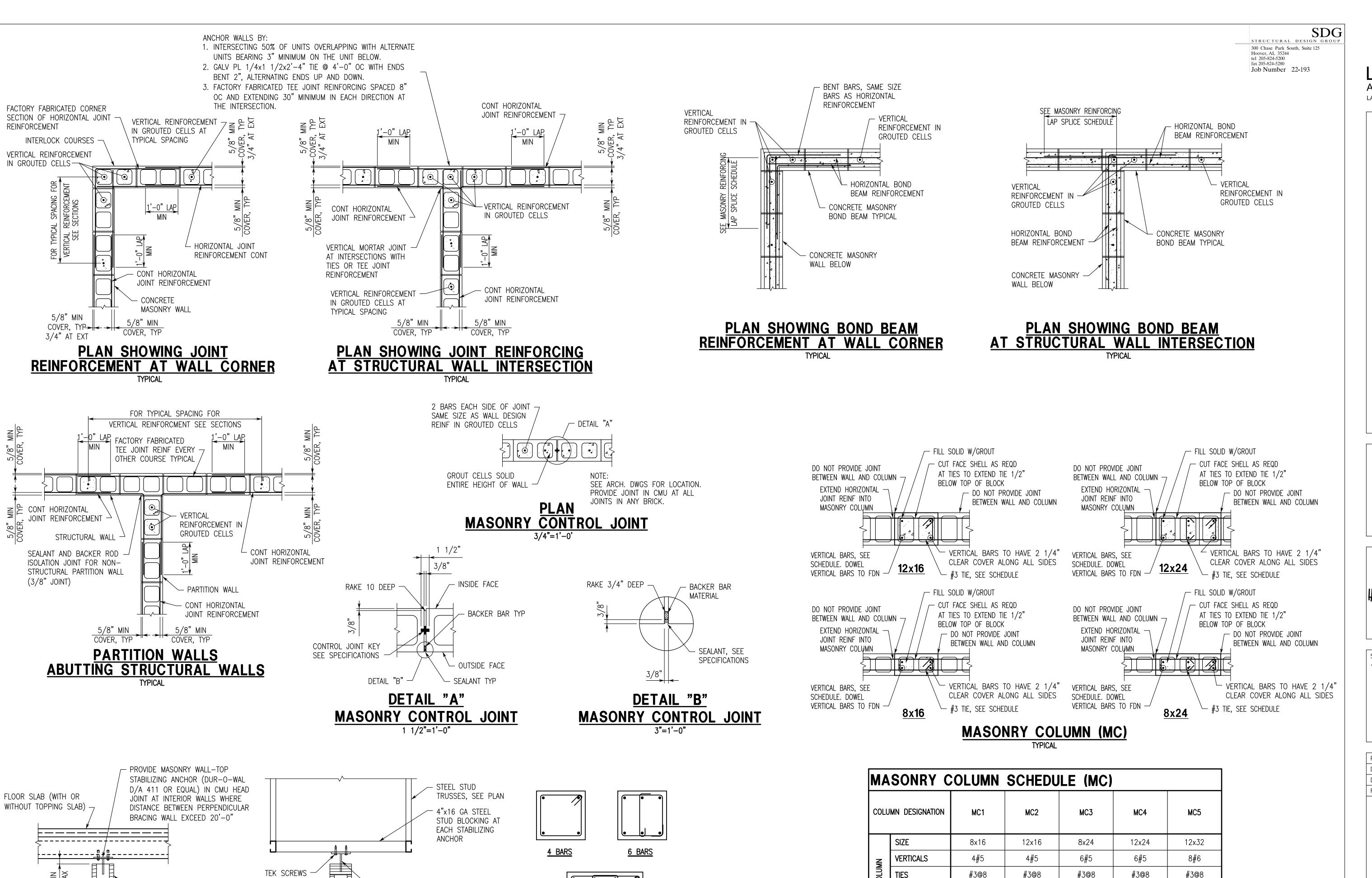
L	WWR DISCONTINUOUS — SAWCUT 1/4 AT SAWCUT SLAB THICKNESS
Į	200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
ON	SAW JOINT WITHIN 8 HOURS AFTER CONCRETE IS PLACED.





KEYED JOINT SLAB CONTROL JOINT DETAILS

TYPICAL JOINT TYPE IS OPTIONAL



8 BARS

IN PLACING SUCCESSIVE SETS OF TIES

NOTE: ALTERNATE POSITION OF TIE HOOKS

COLUMN TIE DETAILS

PROVIDE MASONRY WALL-TOP

D/A 411 OR EQUAL) @32 O.C.

WALLS EXCEED 20'-0"

MAXIMUM IN CMU HEAD JOINT AT

INTERIOR WALLS WHERE DISTANCE

BETWEEN PERPENDICULAR BRACING

STABILIZING ANCHOR (DUR-O-WAL

INTERIOR MASONRY

INTERIOR MASONRY

PARTITIONS, FOR

EXACT LOCATIONS

SEE ARCH. DWGS

INTERIOR MASONRY WALL

BRACING DETAILS

PARTITIONS, FOR

EXACT LOCATIONS

SEE ARCH. DWGS

MASONRY COLUMN SCHEDULE (MC)										
COLU	MN DESIGNATION	MC1	MC2	MC3	MC4	MC5				
	SIZE	8x16	12x16	8x24	12x24	12x32				
¥	VERTICALS	4#5	4#5	6#5	6#5	8#6				
COLUMN	TIES	#3@8	#3@8	#3@8	#3@8	#3@8				
S	NOTES	1,2,3,4	1,2,3,4	1,2,3,4,6	1,2,3,4,5	1,2,3,4				

NOTES:

- 1. SEE COLUMN TIE DETAIL ON THIS SHEET.
- 2. DOWEL VERTICAL STEEL INTO FOOTING THE THICKNESS OF THE FOOTING MINUS 3" WITH
- STANDARD HOOK. LAP DOWELS WITH VERTICALS 72 BAR DIA.
- 3. EXTEND VERTICALS FULL HEIGHT OF WALL UNLESS NOTED.
- 4. PROVIDE FIRST TIE ABOVE FOOTING AT 4" AND FIRST TIE BELOW SLAB/TRUSS/ROOF BEARING AT 4" AND SPACE REMAINING TIES AT SPECIFIED SPACING.
- 5. AT SIMILAR CONDITION, PROVIDE 12x26 NOMINAL SIZE MASONRY COLUMN WITH THE SAME
- REINFORCING AS 12x24 MC4. ADJUST TIE SIZE BASED ON REDUCED MASONRY COLUMN SIZE. 6. AT SIMILAR CONDITION, PROVIDE 8x25 NOMINAL SIZE MASONRY COLUMN WITH THE SAME REINFORCING AS 8x24 MC3. ADJUST TIE SIZE BASED ON REDUCED MASONRY COLUMN SIZE

LATHAN ARCHITECTS LATHAN - BRYANT - CALMA

> SCHOOL CLASSROOM ADDITION TO LINCOLN HIGH

A B A WAR No. 22596 PROFESIONAL |-3|-2*0*23

SHEET TITLE: TYPICAL DETAILS

PROJ. MGR.: DRAWN: DATE: JANUARY 31, 2023 REVISIONS

JOB NO. **22-20**

SHEET NO:

	COMPONENTS AND CLADDING WIND LOADS FOR ROOF (PSF)														
114 MPH VELOCITY	(3-SEC. GUST)			ROOF					OVERHANG						
H = 23'-0" 4:12 Roof Slope	EFFECTIVE WIND AREA (FT ²)	Positive Max. Net Pressure 'p' (PSF)	Zone 1 & 2e (Int.) (PSF)	Zone 2n, 2r, & 3e (Edge) (PSF)	Zone 3r (Corner) (PSF)			Zone 2n & 2r (Edge) - Max. Net Pressure 'p' (PSF)	Zone 3e (Corner) - Max. Net Pressure 'p' (PSF)	Zone 3r (Corner) - Max. Net Pressure 'p' (PSF)					
	10	18.8	-57.3	-83.5	-99.3		-65.7	-92.0	-107.7	-123.5					
	20	16.9	-57.3	-72.2	-85.1		-65.7	-83.5	-93.0	-104.5					
	50	16.0	-34.8	-57.3	-66.3		-50.7	-72.2	-73.6	-79.4					
	100	16.0	-17.9	-46.0	-52.0		-39.4	-63.8	-58.9	-60.4					
	200	16.0	-17.9	-34.6	-52.0		-39.4	-55.3	-44.1	-60.4					
	500	16.0	-17.9	-31.0	-52.0		-39.4	-52.5	-39.4	-60.4					

- 1. WIDTH OF EDGE STRIP 'a' = 8'-2".
- 2. VALUES SHOWN ABOVE HAVE BEEN ADJUSTED FOR BUILDING HEIGHT AND EXPOSURE ACCORDING TO ASCE 7-16 STANDARD TABLE 30.3-1. VALUES SHOWN ARE ULTIMATE
- PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE BUILDING SURFACES.
- 4. EFFECTIVE WIND AREA IS THE SPAN LENGTH MULTIPLIED BY AN EFFECTIVE WIDTH THAT NEED NOT BE LESS THAN ONE-THIRD
- THE SPAN LENGTH. CONSIDER 5 PSF MINIMUM DEAD LOAD FOR UPLIFT CALCULATIONS FOR ROOF FRAMING MEMBERS AND 2 PSF MINIMUM DEAD LOAD
- FOR UPLIFT CALCULATIONS FOR ROOF DECK. WIND PRESSURES IN THESE TABLES SHALL BE MULTIPLIED BY 0.6 TO OBTAIN NOMINAL WIND PRESSURES.

		COMPONENTS AND CLADDING WIND LOADS FOR STORM SHELTER ROOF (PSF)														
Ī	250 MPH VELOCITY (3-SEC. GUST)				ROOF					OVERHANG						
	H = 16'-6" 0:12 Roof Slope	EFFECTIVE WIND AREA (FT ²)	Positive Max. Net Pressure 'p' (PSF)	Zone 1' (Int.) (PSF)	Zone 1 (Int.) (PSF)	Zone 2 (Edge) (PSF)	Zone 3 (Corner) (PSF)	Zone 1' & 1 (Int.) - Max. Net Pressure 'p' (PSF)	Zone 2 (Edge) - Max. Net Pressure 'p' (PSF)	Zone 3 (Corner) - Max. Net Pressure 'p' (PSF)						
		10	117.8	-200.9	-311.8	-394.9	-519.6	-235.6	-318.7	-443.4						
		20	113.6	-200.9	-294.6	-372.8	-475.4	-231.4	-289.2	-391.8						
		50	108.1	-200.9	-271.9	-343.6	-417.0	-225.9	-250.3	-323.7						
		100	103.9	-200.9	-254.7	-321.5	-372.8	-221.7	-220.8	-272.1						
		200	103.9	-180.1	-237.5	-299.4	-328.6	-185.9	-191.4	-220.6						
		500	103.9	-152.5	-214.8	-270.2	-270.2	-138.6	-152.4	-152.4						

- 1. **WIDTH OF EDGE STRIP 'a' = 6'-2"**.
- 2. VALUES SHOWN ABOVE HAVE BEEN ADJUSTED FOR BUILDING HEIGHT AND EXPOSURE ACCORDING TO ASCE 7-16 STANDARD TABLE 30.3-1. VALUES SHOWN ARE ULTIMATE
- 3. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE BUILDING SURFACES.
- EFFECTIVE WIND AREA IS THE SPAN LENGTH MULTIPLIED BY AN EFFECTIVE WIDTH THAT NEED NOT BE LESS THAN ONE-THIRD THE SPAN LENGTH.
- HOLLOW CORE MANUFACTURER IS TO DESIGN SLAB PANELS FOR DEAD LOADS, LIVE LOADS, AND WIND LOADS (DOWNWARD AND UPLIFT) AS INDICATED IN GENERAL NOTES, TYPICAL DETAILS, PLAN NOTES, AND SECTION NOTES, IN ADDITION TO 20 PSF COLLATERAL LOAD AND SELF-WEIGHTS.
- 6. WIND PRESSURES IN THESE TABLES SHALL BE MULTIPLIED BY 0.6 TO OBTAIN NOMINAL WIND PRESSURES.

TENSION LAP SPLICE LENGTHS

		f _C = 30	000 PSI		f _C = 4000 PSI					
BAR SIZE	TOP I	BARS	OTHER BARS		TOP E	TOP BARS		OTHER BARS		
	Α	В	Α	В	Α	В	Α	В		
#3	22"	28"	17"	22"	19"	24"	15"	19"		
#4	29"	37"	22"	29"	25"	32"	19"	25"		
# 5	36"	47"	28"	36"	31"	40"	24"	31"		
#6	43"	56"	33"	43"	37"	48"	29"	37"		
# 7	63"	81"	48"	63"	54"	70"	42"	54"		
#8	72"	93"	55"	72"	62"	80"	48"	62"		
#9	81"	105"	62"	81"	70"	91"	54"	70"		
#10	91"	118"	70"	91"	79"	102"	61"	79"		
#11	101"	131"	78"	101"	87"	113"	67"	87"		

- 1. TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 12" OF CONCRETE CAST BELOW THE REINFORCEMENT.
- FOR TENSION LAP SPLICE LENGTHS FOR 3500 PSI CONCRETE, USE LENGTHS DESIGNATED FOR 3000 PSI CONCRETE.

PIPING WEIGHTS										
PIPE DIAMETER	PIPE WT PER/FOOT (PLF)	FLUID WT PER/FOOT (PLF)	INSULATION & HANGERS (PLF)	TOTAL WT PER/FOOT (PLF)						
4"	10.80	6.10	2.00	18.90						
6"	19.00	13.80	3.00	35.80						
8"	28.60	23.90	4.00	56.50						
10"	40.50	37.50	4.00	82.00						
12"	49.60	54.00	5.00	108.60						
14"	54.60	65.70	5.00	125.30						
16"	62.60	87.10	5.00	154.70						

- FROM ANVIL INTERNATIONAL PIPE FITTERS HANDBOOK.
- ALL PIPES ASSUMED TO BE SCHEDULE 40.

EDGE

ZONE

(5)

WALLS

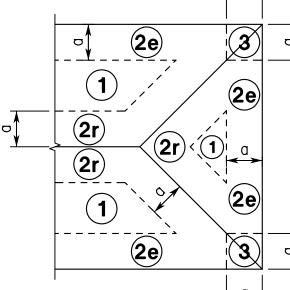
- FLUID WEIGHT INCLUDES ALLOWANCE FOR GLYCOL CONCENTRATION. PIPING SUPPORT AND THRUST BRACING REQUIREMENTS SHALL BE COORDINATED BY THE GENERAL CONTRACTOR WITH THE STEEL/JOIST FABRICATOR. SEE MECHANICAL/PLUMBING DRAWINGS
- FOR PIPING SUPPORT AND THRUST BRACING REQUIREMENTS. 5. FOR PIPE SIZES NOT LISTED, CONTACT STRUCTURAL ENGINEER.

ZONE

RIDGE

0.6h , 0.6h 2 L----ANCHOR EDGE OF DECK TO PLATE @12 -

FLAT ROOFS



GABLE ROOFS

(3r)(3r)

(2n)

HIP ROOFS WALL AND ROOF WIND PRESSURE ZONE DIAGRAMS

RIDGE, HIP AND VALLEY SUPPORTS FOR METAL DECK

SDG STRUCTURAL DESIGN GROUP 300 Chase Park South, Suite 125 Hoover, AL 35244 tel 205-824-5200 fax 205-824-5280

Job Number 22-193 COMPONENTS AND CLADDING WIND LOADS

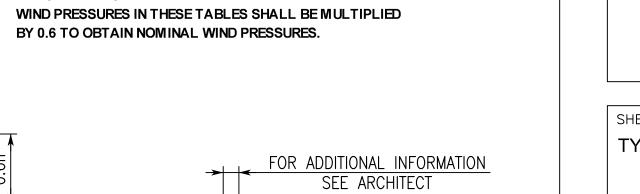
FOR WALLS (PSF)										
	EFFECTIVE	114 MPH \	/ELOCITY (3-S	SEC. GUST)						
H = 23'-0" 4:12 Roof Slope	WIND AREA (FT ²)	ZONES 4 & 5	ZONES 4 (Int.)	ZONES 5 (Edge)						
	10	31.0	-33.6	-41.5						
	20	29.6	-32.2	-38.7						
	50	27.8	-30.4	-35.1						
	100	26.4	-29.0	-32.3						
	200	25.0	-27.5	-29.5						
	500	23.1	-25.7	-25.7						

- 1. WIDTH OF EDGE STRIP 'a' = 8'-2".
- VALUES SHOWN ABOVE HAVE BEEN ADJUSTED FOR BUILDING HEIGHT AND EXPOSURE ACCORDING TO ASCE 7-16 STANDARD TABLE 30.3-1. VALUES SHOWN ARE ULTIMATE
- 3. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE BUILDING SURFACES.
- 4. EFFECTIVE WIND AREA IS THE SPAN LENGTH MULTIPLIED BY AN EFFECTIVE WIDTH THAT NEED NOT BE LESS THAN ONE-THIRD
- 5. WIND PRESSURES IN THESE TABLES SHALL BE MULTIPLIED BY 0.6 TO OBTAIN NOMINAL WIND PRESSURES.

COMPONENTS AND CLADDING WIND LOADS FOR STORM SHELTER WALLS (PSF)

	EFFECTIVE	250 MPH VELOCITY (3-SEC. GUST)				
H = 16'-6" 0:12 Roof Slope	WIND AREA (FT ²)	ZONES 4 & 5	ZONES 4 (Int.)	ZONES 5 (Edge)		
	10	200.9	-213.4	-250.8		
	20	194.3	-206.6	-237.7		
	50	185.5	-197.8	-220.2		
	100	178.9	-191.2	-207.0		
	200	172.3	-184.5	-193.7		
	500	163.5	-176.0	-176.0		

- 1. WIDTH OF EDGE STRIP 'a' = 6'-2".
- 2. VALUES SHOWN ABOVE HAVE BEEN ADJUSTED FOR BUILDING HEIGHT AND EXPOSURE ACCORDING TO ASCE 7-16 STANDARD TABLE 30.3-1. VALUES SHOWN ARE ULTIMATE
- 3. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE BUILDING SURFACES.
- 4. EFFECTIVE WIND AREA IS THE SPAN LENGTH MULTIPLIED BY AN EFFECTIVE WIDTH THAT NEED NOT BE LESS THAN ONE-THIRD
- THE SPAN LENGTH.



PROVIDE 5x5x14 GA BENT PLATE CONT IN AREAS W/NO VENT. SCREW TO TRUSSES W/2#12 SELF TAPPING SCREWS EACH LEG. RIDGE OR HIP

- 3x6x14 GA BENT PLATE CONT.

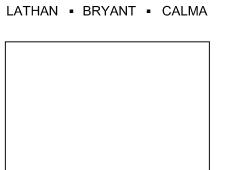
SCREW TO TRUSSES W/2#12

SELF TAPPING SCREWS

AT VENT - ANCHOR END OF DECK TO PLATE @12

> 5x5x14 GA BENT PLATE CONT. SCREW TO TRUSSES W/2#12 SELF TAPPING SCREWS EÄCH LEG

SHEET NO:



LATHAN

ARCHITECTS

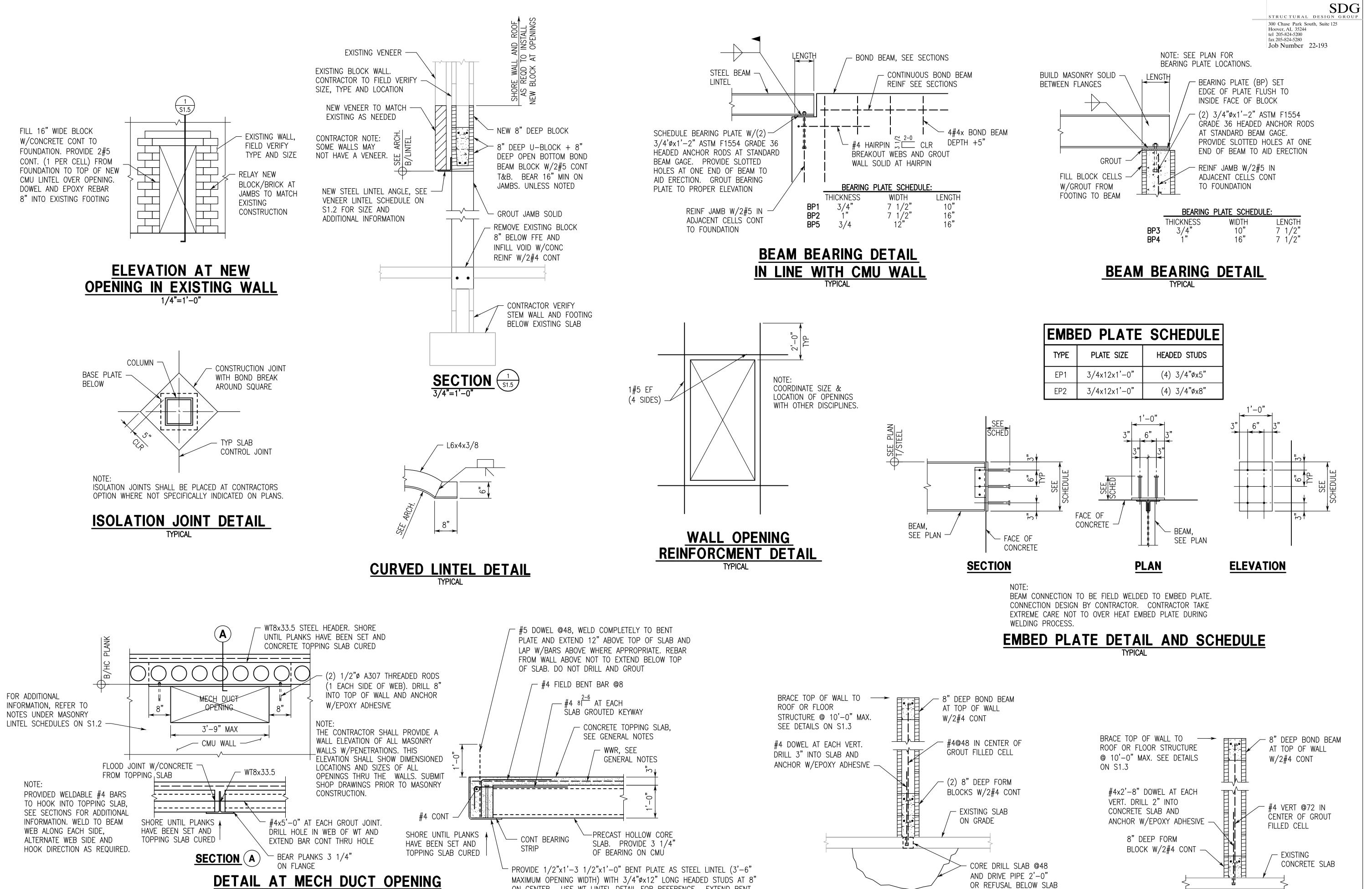
SCHOOL CLASSROOM ADDITION TO LINCOLN HIGH

SHEET TITLE: TYPICAL DETAILS

PROJ. MGR.: DRAWN: DATE: JANUARY 31, 2023

REVISIONS

JOB NO. **22-20**



ON CENTER. USE WT LINTEL DETAIL FOR REFERENCE. EXTEND BENT

WITH (2) 3/4"øx1'-10" LONG HIGH STRENGTH THREADED RODS (18"

EMBEDMENT) AT 8" GAGE AND 4" FROM END OF BENT PLATE ON EACH

TO BENT PLATE. INSTALL #4 AS VERTICAL BAR AND FIELD BEND INTO

SIDE. PROVIDE $\#4\times3'-6$ " AT 8" ON CENTER AND WELD COMPLETELY

POSITION AFTER HOLLOW CÖRE PLANKS ARE SET

SECTION (A) SIM

PLATE PAST OPENING 1'-4" ON EACH SIDE. ANCHOR BENT PLATE

BELOW HOLLOW CORE PANELS

NOT TO SCALE

(4) THREADED RODS (2 EACH SIDE OF WEB AT 8" GAGE).

ON THIS SHEET.

AT OPENINGS WITHIN STORM SHELTER MASONRY WALL, MINIMUM

IF PANEL ONLY LOCATED ON 1 SIDE, SEE SECTION "A" SIMILAR

BEARING TO BE INCREASED TO 16" IN LIEU OF 8" AND PROVIDE

AND PUMP GROUT UNDER

PRESSURE BELOW SLAB

NEW WALL BEARING

ON EXISTING SLAB

TYPICAL

LATHAN

ARCHITECTS LATHAN - BRYANT - CALMA

CLASSROOM ADDITION TO

LINCOLN HIGH SCHOOL
78989 AL HIGHWAY 77, LINCOLN, ALABAMA 35096

VIEG ISTER No. 22596 PROFESSIONAL |-3|-2*0*23

SHEET TITLE: TYPICAL DETAILS

PROJ. MGR.: DRAWN: DATE: JANUARY 31, 2023 REVISIONS

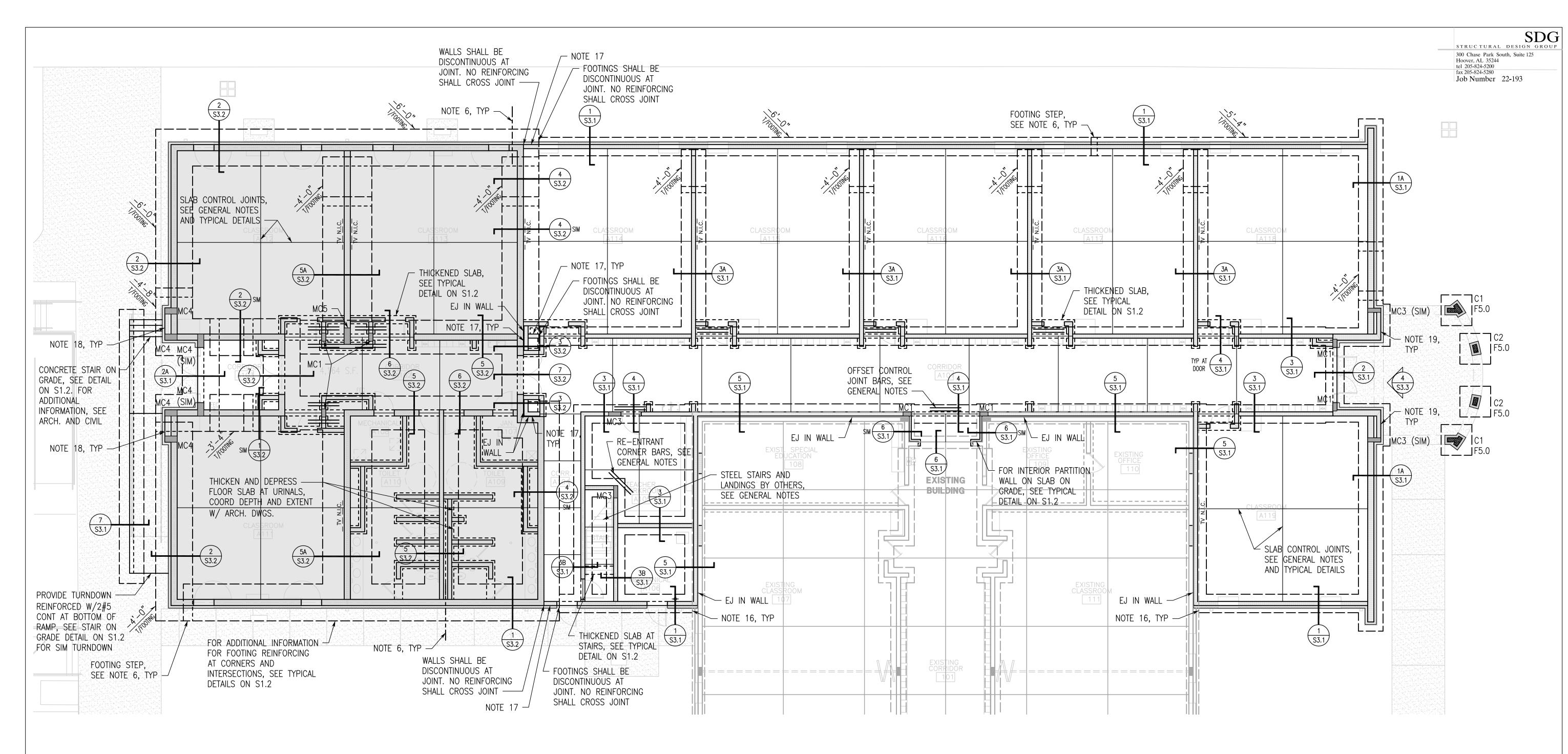
JOB NO. **22-20**

SHEET NO:

NEW CMU WALL INSTALLED

ON EXISTING FRAMED FLOOR

TYPICAL



PROJECT NORTH

FOUNDATION PLAN

DIMENSIONS, SEE ARCHITECTURAL DRAWINGS.

FINISH FLOOR (TOP OF SLAB) ELEVATION TO MATCH EXISTING, UNLESS NOTED. TOP OF FOOTING ELEVATION -2'-0" BELOW FINISH FLOOR ELEVATION, UNLESS NOTED.

FOR SLAB ON GRADE CONSTRUCTION, SEE GENERAL NOTES AND TYPICAL DETAILS. FOR SLAB RECESS AND RAMP LOCATIONS, SEE ARCHITECTURAL DRAWINGS. GENERAL CONTRACTOR SHALL COORDINATE TILE JOINT LOCATIONS WITH CONTROL JOINTS.

FOOTING STEP LOCATIONS SHOWN ARE APPROXIMATE. GENERAL CONTRACTOR COORDINATE LOCATION OF ALL (EXTERIOR & INTERIOR) FOOTING STEPS WITH THE LATEST CIVIL, PLUMBING AND UTILITY DRAWINGS. SEE FOOTING STEP DETAIL ON S1.2.

7. FOOTING WIDTHS INDICATED ON PLAN MAY OR MAY NOT BE TO SCALE. COORDINATE WITH SECTION CUTS FOR FOOTING WIDTHS AND ADDITIONAL INFORMATION.

8. THE HATCHED/SHADED AREA ON THE PLAN INDICATES AREA TO BE USED AS STORM SHELTER. FOR ADDITIONAL INFORMATION, SEE GENERAL NOTES, PLANS AND SECTIONS.

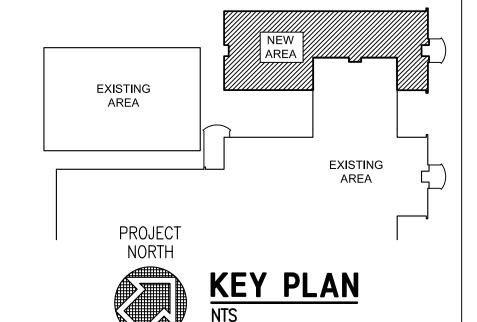
"MCx" INDICATES MASONRY COLUMN. SEE SCHEDULE ON S1.3 FOR ADDITIONAL INFORMATION. 10. C1 AND C2 INDICATES END AND INTERIOR CONCRETE COLUMNS, RESPECTIVELY, FOR THE ENTRY CANOPY. FOR COLUMN DIMENSIONS, SEE ARCHITECTURAL DRAWINGS. REINFORCE COLUMN WITH #5 VERTICAL IN EACH CORNER AND INFILL WITH ADDITIONAL #5 VERTICALS WITH 6" MAXIMUM SPACING. DOWEL TO FOOTING WITH STANDARD HOOK. USE #3 TIES AT 8" ON CENTER. ALL VERTICALS ARE TO BE SUPPORTED BY THE CORNER OF A TIE. SEE COLUMN BASE AND FOOTING DETAIL ON S1.2 AND COLUMN TIE DETAILS ON S1.3. FOR ADDITIONAL INFORMATION, SEE ARCHITECTURAL DRAWINGS.

11. F5.0 INDICATES 5'-0"x5'-0"x1'-0" CONCRETE SPREAD FOOTING REINFORCED WITH 6#5 EACH WAY TOP AND BOTTOM. SEE COLUMN BASE AND FOOTING DETAIL ON S1.2 FOR ADDITIONAL INFORMATION.

14. FOR LOAD BEARING AND NON-LOAD BEARING CMU WALL PLAN DIMENSIONS AS WELL AS OTHER PLAN

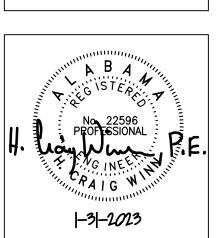
12. CONTRACTOR NOTE: DO NOT PROVIDE MASONRY CONTROL JOINTS IN STORM SHELTER CMU WALLS. 13. FOR PAVEMENT AND HARDSCAPE INFORMATION, SEE ARCHITECTURAL DRAWINGS AND CIVIL DRAWINGS.

- 15. CONTRACTOR SHALL COORDINATE EMBEDS INTO MASONRY WITH LOUVER OR DOOR MANUFACTURER. PROVIDE MODIFICATIONS TO STRUCTURE AS REQUIRED TO FULLY COMPLY WITH MANUFACTURERS INSTALLATION DETAILS. SUBMIT ANY MODIFICATIONS TO DESIGN TEAM FOR REVIEW.
- 16. GENERAL CONTRACTOR COORDINATE FOOTING ELEVATIONS AND STEP NEW FOOTINGS AS REQUIRED TO MATCH EXISTING FOOTING ELEVATIONS. DOWEL CONTINUOUS REINFORCING 9" INTO EXISTING FOOTING BY DRILLING AND ANCHORING WITH EPOXY ADHESIVE.
- 17. VERTICAL DOWELS AT INDICATED LOCATIONS ARE TO ONLY EXTEND ABOVE TOP OF FOOTING ELEVATIONS BY 1'-0". LAP DOWELS 1'-0" INTO WALL OR MASONRY COLUMN. PROVIDE DECREASED LAP LENGTH WHEN DOWELING NON-STORM SHELTER WALLS OR MASONRY COLUMNS TO STORM SHELTER WALL FOOTINGS.
- 18. STORM SHELTER 12" CMU BUMP OUT WALL, REINFORCE WITH #6 VERTICAL AT 8" FOR FULL HEIGHT OF WALL. FILL CELLS WITH GROUT. DOWEL TO FOOTING. TIE 12" CMU WALLS TOGETHER HARD. FOR ADDITIONAL INFORMATION, SEE ARCHITECTURAL DRAWINGS.
- 19. NON-STORM SHELTER 8" OR 12" CMU BUMP OUT WALL, REINFORCE WITH #5 VERTICALS AT 16" FOR FULL HEIGHT OF WALL. FILL CELLS WITH GROUT. DOWEL TO FOOTING. PROVIDE WALL TIES AS REQUIRED AND PER ARCHITECTURAL DRAWINGS. FOR ADDITIONAL INFORMATION, SEE ARCHITECTURAL DRAWINGS.





CLASSROOM ADDITION TO LINCOLN HIG

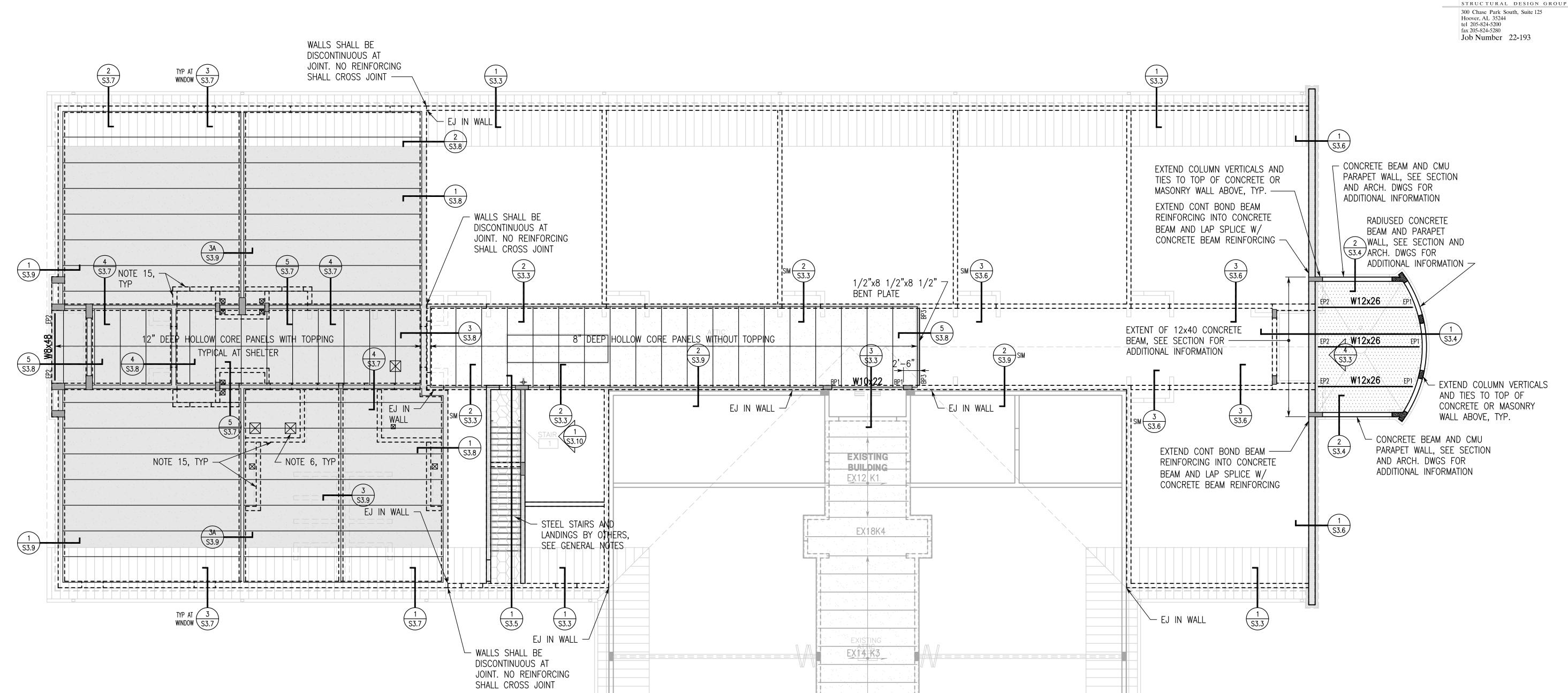


SHEET TITLE: **FOUNDATION PLAN**

PROJ. MGR.: DRAWN: DATE: JANUARY 31, 2023 REVISIONS

JOB NO. **22-20**

SHEET NO:



PROJECT NORTH

ATTIC FRAMING PLAN 1/8"=1'-0"

FINISH FLOOR (TOP OF SLAB) ELEVATION 11'-2" ABOVE MAIN FINISHED FLOOR AT STORM SHELTER, UNLESS NOTED.

FINISH FLOOR (TOP OF SLAB) ELEVATION 12'-0" ABOVE MAIN FINISHED FLOOR AT CORRIDORS (STORM SHELTER AND NON-STORM SHELTER), UNLESS NOTED.

TOP OF STEEL ELEVATION 12'-8" ABOVE MAIN FINISHED FLOOR AT ENTRY CANOPY, UNLESS NOTED. 2. FLOOR/ROOF SYSTEM:

STORM SHELTER: 12" THICK PRECAST HOLLOW CORE SLABS WITH MAXIMUM 3" STRUCTURAL TOPPING SLAB, SEE GENERAL NOTES. NON-STORM SHELTER: 8" THICK PRECAST HOLLOW CORE SLABS WITH NO STRUCTURAL TOPPING

SLAB, SEE GENERAL NOTES. ENTRY CANOPY: 1 1/2" x22 GAGE GALVANIZED METAL DECK ON STEEL BEAMS AT 6'-3" MAXIMUM ON CENTER, SEE GENERAL NOTES. ANCHOR METAL DECK TO BEAMS

WITH 5/8" PUDDLE WELDS IN 36/4 PATTERN WITH 3#10 SIDELAP SCREWS BETWEEN BEAMS. 3. PRECAST HOLLOW CORE SLAB LAYOUT SHOWN IS FOR SCHEMATIC PURPOSES ONLY. PRECAST MANUFACTURER TO VERIFY ACTUAL LAYOUT. HOLLOW CORE MANUFACTURER DESIGN SLABS FOR

DEAD LOADS, LIVE LOADS AND WIND LOADS (DOWNWARD AND UPLIFT) AS INDICATED IN GENERAL NOTES AND TYPICAL DETAILS, IN ADDITION TO SELF-WEIGHT DEAD LOAD, 20 PSF COLLATERAL DEAD LOAD AND OTHER APPLICABLE FLOOR LIVE LOADS.

4. CUT OR BREAK CORES OF HOLLOW CORE SLABS ONLY AS REQUIRED TO PLACE REINFORCING.

5. THE GENERAL CONTRACTOR SHALL COORDINATE AND VERIFY THE SIZE, WEIGHT AND LOCATION OF ALL CONCENTRATED AND MECHANICAL LOADS WITH THE PRECAST MANUFACTURER.

COORDINATE MECHANICAL OPENINGS WITH MECHANICAL DRAWINGS AND UNIT MANUFACTURER. PRECAST SUPPLIER TO SHOW OPENINGS ON SHOP DRAWINGS AND PROVIDE ANY SUPPORT FOR OPENINGS. CONTRACTOR TO PROVIDE PENETRATION PROTECTION AT ANY STORM SHELTER WALL/ROOF PENETRATION.

PROVIDE MASONRY AND VENEER LINTELS AT ALL OPENINGS, SEE SCHEDULES ON S1.2.

"BP" INDICATES BEAM BEARING PLATE, SEE TYPICAL DETAIL ON SHEET S1.5. 9. THE HATCHED AREA ON THE PLAN INDICATES REINFORCED SHELTER ROOF. THIS AREA IS NOT TO BE OCCUPIED ON THIS FLOOR AS STORM SHELTER. FOR ADDITIONAL INFORMATION, SEE

GENERAL NOTES, PLANS AND SECTIONS.

CONTRACTOR NOTE: DO NOT PROVIDE MASONRY CONTROL JOINTS IN STORM SHELTER CMU WALLS. 11. WHERE MECHANICAL DUCTS EXTEND THRU LOAD BEARING WALLS BELOW HOLLOW CORE SLABS, PROVIDE MASONRY BOND BEAM PER DETAIL/SCHEDULE ON S1.5.

12. CONTRACTOR NOTE: ALL MECHANICAL OPENING SIZES AND LOCATIONS IN LOAD BEARING MASONRY WALLS SHOULD BE COORDINATED BY THE CONTRACTOR AND INDICATED ON THE MASONRY WALL REBAR SHOP DRAWINGS.

13. CONTRACTOR SHALL COORDINATE EMBEDS INTO MASONRY WITH LOUVER OR DOOR MANUFACTURER. PROVIDE MODIFICATIONS TO STRUCTURE AS REQUIRED TO FULLY COMPLY WITH MANUFACTURERS INSTALLATION DETAILS. SUBMIT ANY MODIFICATIONS TO DESIGN TEAM FOR REVIEW. 14. CONTRACTOR SHALL COORDINATE MECHANICAL DUCT LAYOUT AND ROUTE. DUCT LAYOUT IS TO BE

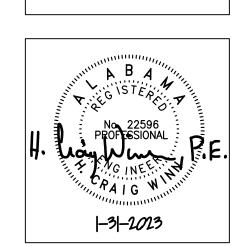
PROVIDED TO STRUCTURAL EOR FOR REVIEW AND APPROVAL PRIOR TO MASONRY WALL CONSTRUCTION. SUBMITTED LAYOUT TO HAVE ROUTE, SIZE, ELEVATION, ETC. AS WELL AS ANY REQUIRED WALL OPENINGS (LOCATION, SIZE, ETC.).

15. CONTRACTOR TO PROVIDE PENETRATION PROTECTION AT ANY AND ALL STORM SHELTER WALL/ROOF PENETRATIONS LARGER THAN 3 1/2" SQUARE INCHES IN AREA FOR RECTANGULAR PENETRATIONS OR 2 1/16" INCHES IN DIAMETER. ALL PENETRATIONS/OPENINGS (MECHANICAL, ELECTRICAL, PLUMBING, ETC.) SHALL BE A MINIMUM OF 6 INCHES CLEAR FROM EACH OTHER WHERE INSTALLED IN MULTIPLE ROWS AND/OR COLUMNS.

16. "EP" INDICATES EMBED PLATE, SEE TYPICAL DETAIL WITH SCHEDULE ON SHEET S1.5.

17. CONTRACTOR BUILD ALL CMU PARTITION WALLS (EXCEPT TOILET AND URINAL PARTITION WALLS) WITHIN THE STORM SHELTER HARD TO UNDERSIDE OF HOLLOW CORE SLAB.



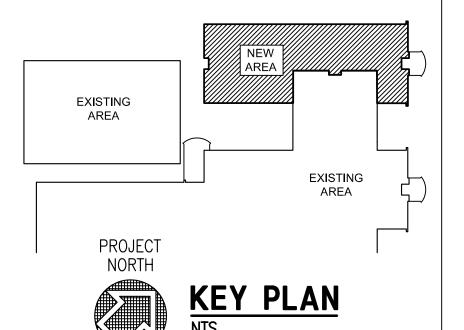


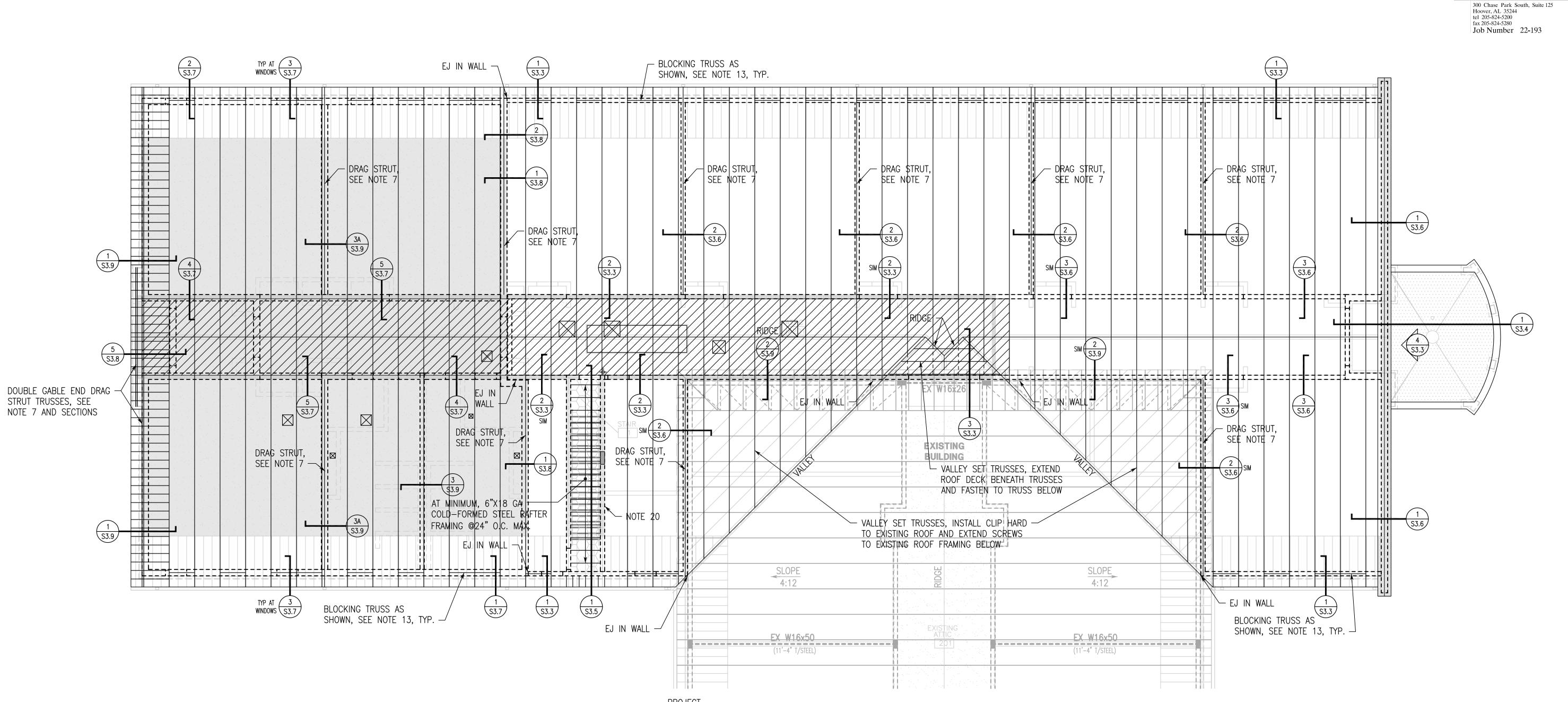
SHEET TITLE: ATTIC FRAMING PLAN

PROJ. MGR.: DRAWN: DATE: JANUARY 31, 2023 REVISIONS

JOB NO. **22-20**

SHEET NO:







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

FINISH FLOOR (TOP OF SLAB) ELEVATION 11'-2" ABOVE MAIN FINISHED FLOOR AT STORM SHELTER, UNLESS NOTED.

FINISH FLOOR (TOP OF SLAB) ELEVATION 12'-0" ABOVE MAIN FINISHED FLOOR AT CORRIDORS (STORM SHELTER AND NON-STORM SHELTER), UNLESS NOTED. TOP OF CMU WALL ELEVATION 10'-8" ABOVE MAIN FINISHED FLOOR AT NON-STORM SHELTER, UNLESS NOTED.

TOP OF CMU WALL ELEVATION 12'-0" ABOVE MAIN FINISHED FLOOR AT NON-STORM SHELTER CORRIDOR, UNLESS NOTED.

2. ROOF SYSTEM: $1 \frac{1}{2}$ " x 22 GA GALV METAL DECK ON PRE-MANUFACTURED METAL STUD TRUSSES AT 4'-0"

MAXIMUM ON CENTER. SEE GENERAL NOTES. ANCHOR METAL DECK TO TRUSSES WITH #12 SCREWS IN 36/4 PATTERN WITH 2#10 SIDELAP SCREWS BETWEEN TRUSSES.

3. TOP OF CMU IS EITHER LEVEL OR SLOPING UNIFORMLY BETWEEN NOTED ELEVATIONS.

TRUSS MANUFACTURER TO COORDINATE DRAFT STOP TRUSS LOCATIONS WITH ARCHITECTURAL DRAWINGS.

FOR WALL LOCATIONS, SEE ARCHITECTURAL DRAWINGS.

GENERAL CONTRACTOR SHALL COORDINATE THE LOAD MAGNITUDE AND LOCATION OF ANY EQUIPMENT SUPPORTED FROM THE METAL STUD TRUSSES. THESE LOADS AND LOCATIONS ARE TO BE SHOWN ON THE TRUSS SHOP DRAWINGS. ANY ATTACHMENT OF EQUIPMENT TO THE TRUSSES SHALL BE BY THE EQUIPMENT SUPPLIERS.

7. PROVIDE DRAG STRUT TRUSS AS NOTED ON PLAN. TRUSS MANUFACTURER TO DESIGN TRUSS AND CONNECTION TO STRUCTURE FOR A SERVICE LOAD OF 160 PLF (SERVICE) FOR THE LENGTH OF THE TRUSS.

8. PROVÌDE MASÓNRY AND VENEER LINTELS AT ALL OPENINGS, SEE SCHEDULES ON S1.2. "BP" INDICATES BEAM BEARING PLATE, SEE TYPICAL DETAIL ON SHEET S1.5.

10. GENERAL CONTRACTOR SHALL COORDINATE METAL STUD TRUSS LAYOUT WITH MECHANICAL EQUIPMENT AND DUCT LOCATIONS.

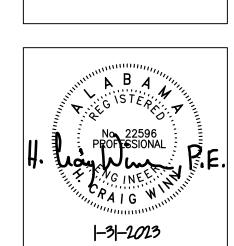
11. WHERE MECHANICAL DUCTS MUST EXTEND THRU LOAD BEARING WALLS BELOW HOLLOW CORE SLABS, PROVIDE MASONRY BOND BEAM PER DETAIL/SCHEDULE ON S1.5.

12. TRUSS MANUFACTURER TO PROVIDE ALL MISC STEEL CLOSURE PLATES, SUCH AS RIDGE, HIP AND VALLEY PLATES.

- 13. BLOCKING TRUSS/PLATE SHALL BE LOCATED AS SHOWN ON PLAN. TRUSS/PLATE SHALL BE DESIGNED BY TRUSS MANUFACTURER TO TRANSFER 2000 LBS (SERVICE) OF FORCE DOWN TO TOP OF WALL. SEE DETAIL ON S1.4. ANCHOR TOP CHORD OF BLOCKING TRUSS TO ROOF DECK AS DIRECTED BY TRUSS MANUFACTURER TO TRANSFER 500 LBS/FT (SERVICE) SHEAR FORCE.
- 14. METAL STUD SOFFIT FRAMING SHALL BÉ DESIGNED BY CONTRACTOR TO HANG FROM ROOF STRUCTURE. CONTRACTOR SHALL ENGAGE METAL STUD ENGINEER AND PROVIDE CALCULATIONS AND SHOP DRAWINGS FOR SOFFIT DESIGN. DESIGN SOFFIT FOR DEAD WEIGHT PLUS ANY SUSPENDED EQUIPMENT AND A 5 PSF HORIZONTAL LOAD OVER SURFACE. TRUSS MANUFACTURER TO DESIGN TRUSSES IN THIS AREA FOR MINIMUM 250 PLF DEAD WEIGHT FROM SOFFIT.
- 15. HANGER LOCATIONS FOR PIPING LARGER THAN 3 INCHES IN DIAMETER MUST BE COORDINATED BY THE GENERAL CONTRACTOR WITH THE TRUSS MANUFACTURER. FOR PIPING WEIGHTS, SEE TYPICAL DETAIL ON \$1.4.
- 16. BLOCKING TRUSSES/PLATES, BRIDGING, PERMANENT BRACING, MISCELLANEOUS STEEL CLOSURE PLATES, ETC. SHALL BE DESIGNED AND INDICATED ON THE TRUSS LAYOUT SHOP DRAWINGS. FOR ADDITIONAL INFORMATION, SEE GENERAL NOTES.
- 17. CONTRACTOR NOTE: ALL MECHANICAL OPENING SIZES AND LOCATIONS IN LOAD BEARING MASONRY WALL SHOULD BE COORDINATED BY THE CONTRACTOR
- AND INDICATED ON THE MASONRY WALL REINFORCING SHOP DRAWINGS 18. METAL STUD SUPPORT FRAMING SHALL BE DESIGNED BY CONTRACTOR TO SUPPORT INTAKE HOODS, RELIEF HOODS, ETC. CONTRACTOR SHALL ENGAGE METAL
- STUD ENGINEER AND PROVIDE CALCULATIONS AND SHOP DRAWINGS FOR ALL NECESSARY METAL STUD FRAMING DESIGNS. 19. ZZZZ HATCH PATTERN INDICATES MECHANICAL ATTIC IN THE PLANE OF THE TRUSSES. PREFABRICATED CFS TRUSS MANUFACTURER SHALL DESIGN TRUSSES
- AS REQUIRED TO PROVIDE MAXIMUM HEAD HEIGHT IN THESE AREAS. FOR ADDITIONAL INFORMATION, SEE ARCH. AND MECH. DWGS. 20. EXTEND TOP OF WALL ELEVATION UP TO DECK BEARING ELEVATION AT STAIR SHAFT. PROVIDE 3/8x5 x CONT. PLATE W/ 1/2"Øx8" LONG HEADED STUDS @16 IN TOP OF WALL. PROVIDE AND ANCHOR 12 GA TRACK TO INSIDE FACE OF STAIR SHAFT CMU WALL. ANCHOR STEEL ROOF DECK TO TRACK W/ #12 SCREWS @12 AND TO PLATE W/ 5/8"Ø PUDDLE WELDS @6.



CLASSROOM ADDITION TO
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SHEET TITLE: ROOF FRAMING

PLAN

PROJ.	MGR.:		HCW
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AREA

KEY PLAN

EXISTING

AREA

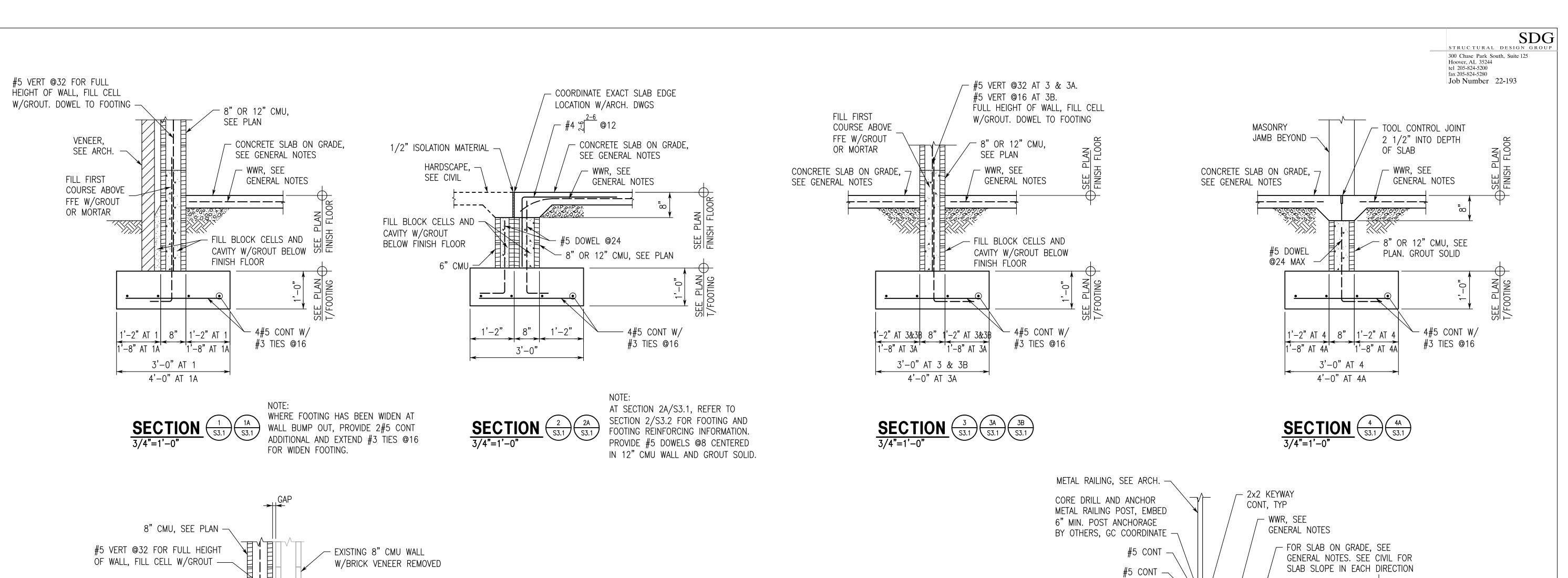
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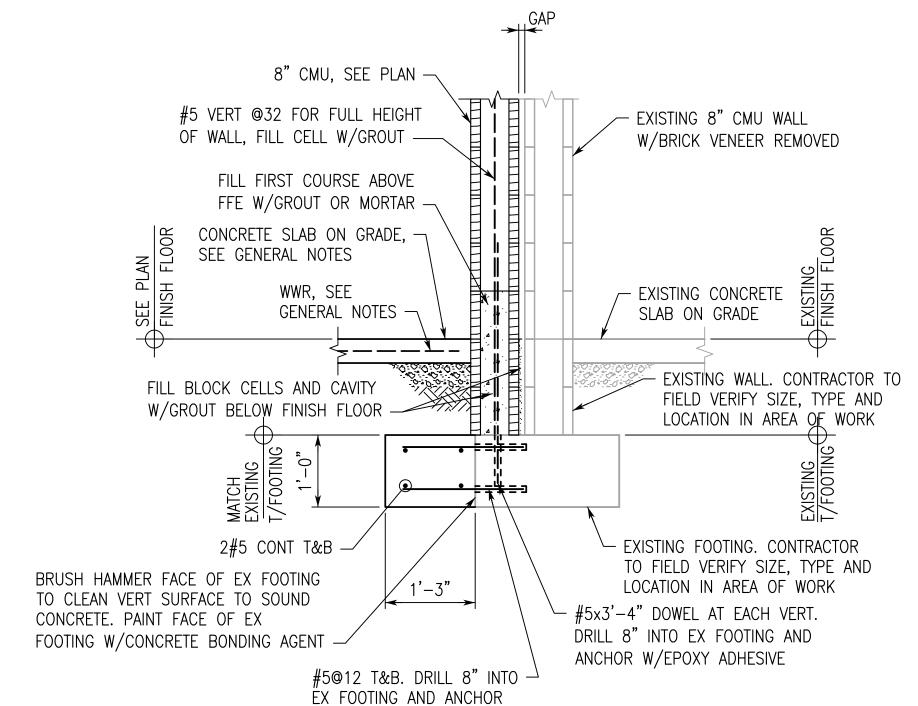
AREA

NORTH

JOB NO. **22-20**

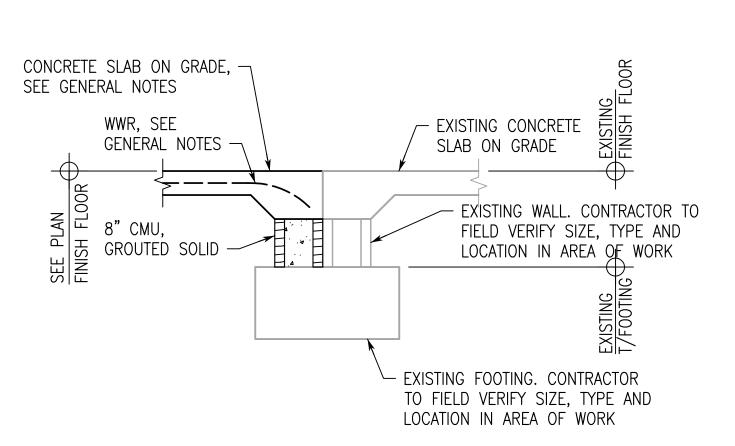
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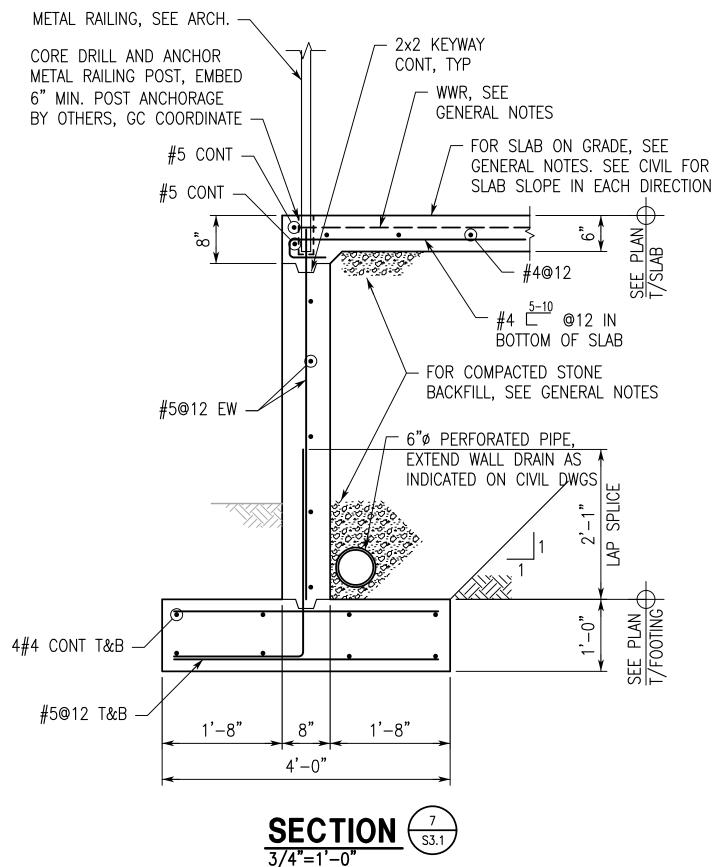


W/EPOXY ADHESIVE





AT SIMILAR CONDITION, EXISTING 8"
CMU WALL WITH BRICK VENEER
REMOVED IS PRESENT AND NEW
INTERIOR PARTITION WALL ON SLAB
ON GRADE IS TO BE ADDED. FOR
ADDITIONAL INFORMATION, SEE ARCH.



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SECTIONS
AND DETAILS

PROJ. MGR.: HCW

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DATE: JANUARY 31, 2023

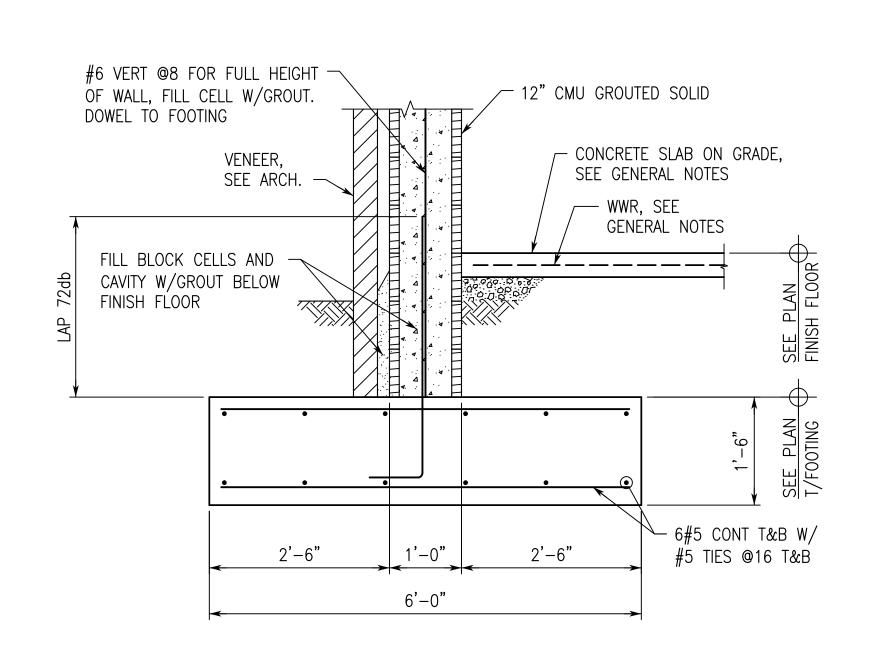
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JOB NO. **22-20**

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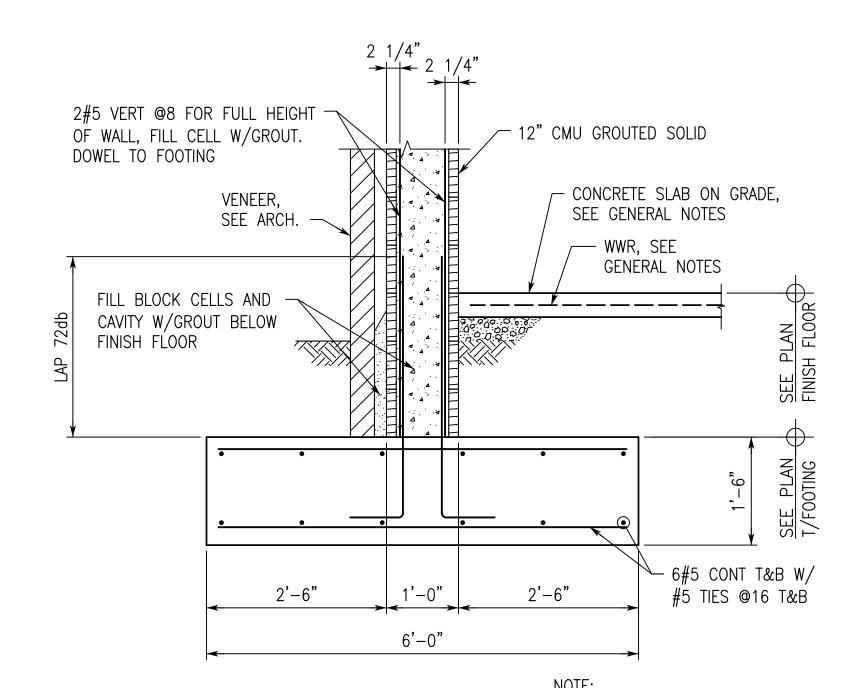
10 OF 19

0 1" 2



SECTION (3.2)

NOTE:
WHEN TOP OF FOOTING ELEVATION IS
GREATER THAN -2'-8" BELOW FINISH
FLOOR ELEVATION, PROVIDE DOUBLE
REINFORCED EXTERIOR MASONRY WALLS
AT THE STORM SHELTER AS SHOWN IN
SECTION 2/S3.2.
AT SIMILAR CONDITION, VENEER IS NOT
PRESENT.

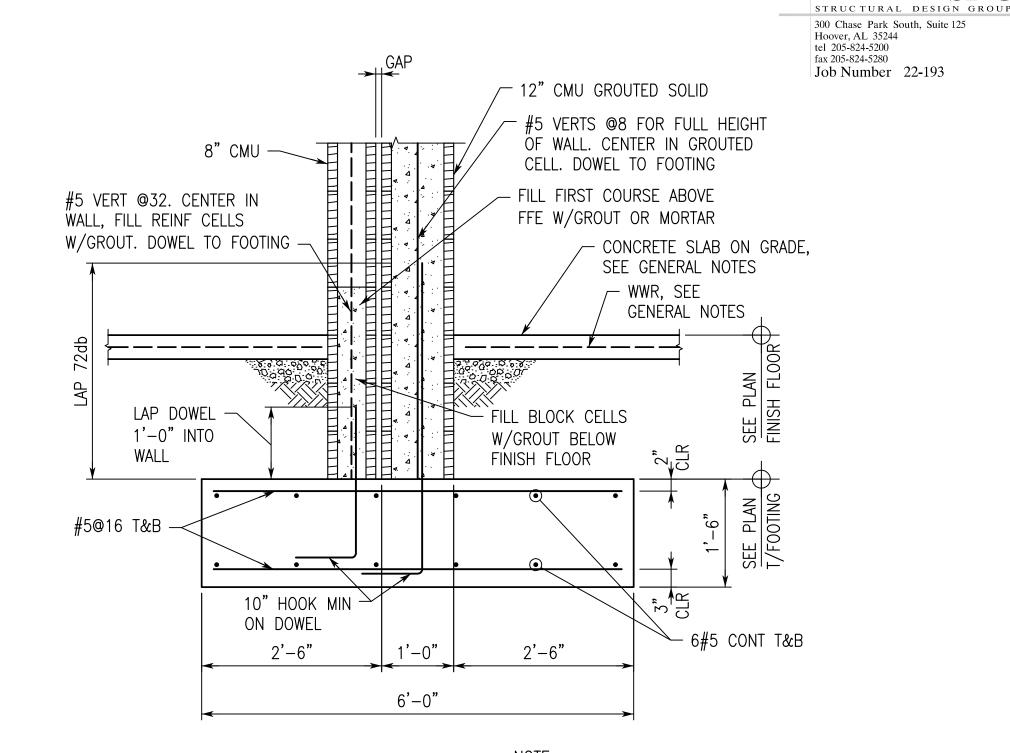


SECTION

2
S3.2

WHEN TOP OF FOOTING ELEVATION IS GREATER
THAN -2'-8" BELOW FINISH FLOOR ELEVATION,
PROVIDE DOUBLE REINFORCED EXTERIOR
MASONRY WALLS AT THE STORM SHELTER AS
SHOWN IN THIS SECTION.

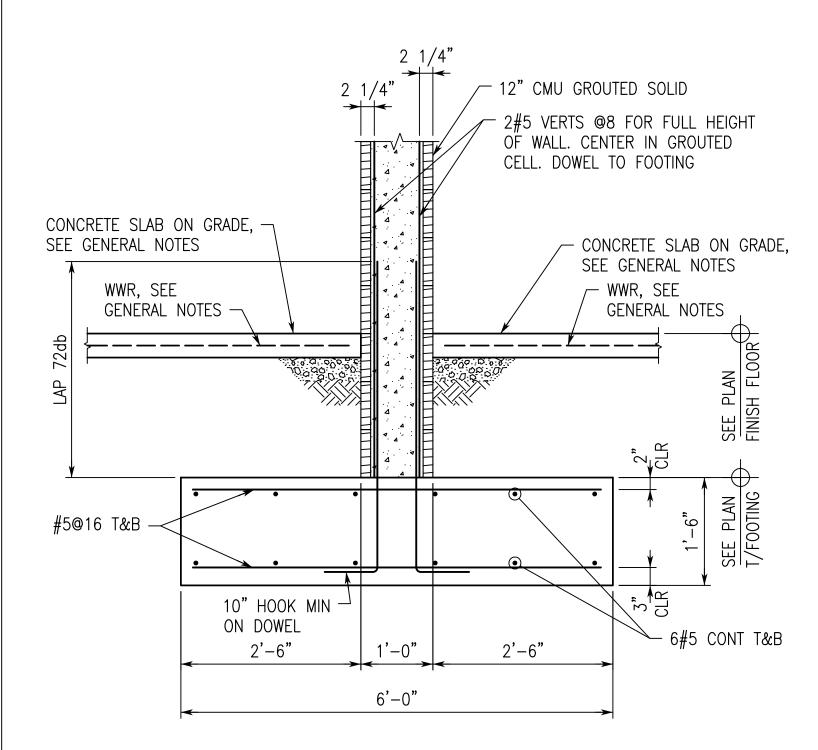
AT SIMILAR CONDITION, VENEER IS NOT PRESENT.



SECTION (3) (3) (3) (4"=1'-0")

WALLS SHALL BE DISCONTINUOUS AT JOINT. NO REINFORCING SHALL CROSS JOINT.

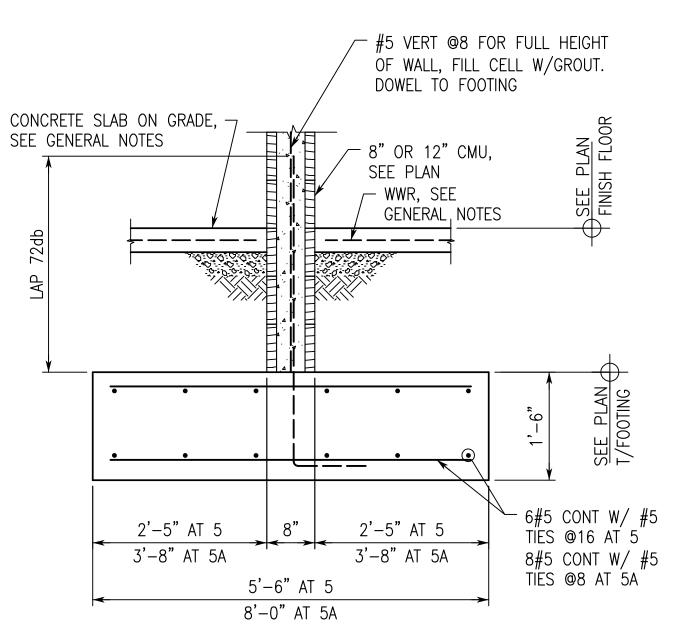
WHEN TOP OF FOOTING ELEVATION IS GREATER THAN -2'-8" BELOW FINISH FLOOR ELEVATION, PROVIDE DOUBLE REINFORCED EXTERIOR MASONRY WALLS AT THE STORM SHELTER AS SHOWN IN SECTION 4/S3.2.



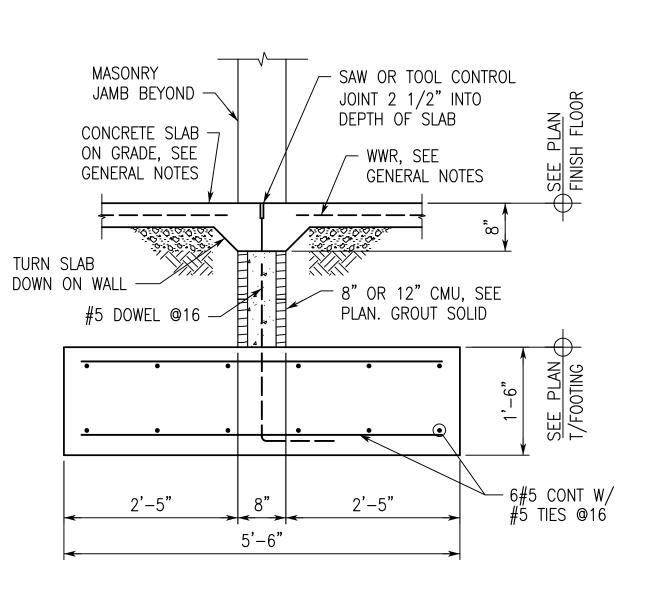
SECTION(S3.2)
3/4"=1'-0"

NOTE:
WALLS SHALL BE DISCONTINUOUS AT
JOINT. NO REINFORCING SHALL
CROSS JOINT

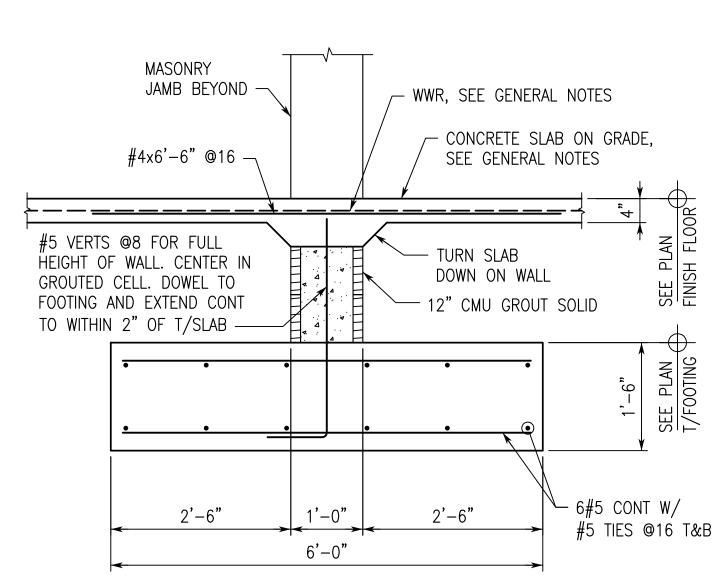
CROSS JOINT.
WHEN TOP OF FOOTING ELEVATION IS
GREATER THAN -2'-8" BELOW FINISH
FLOOR ELEVATION, PROVIDE DOUBLE
REINFORCED EXTERIOR MASONRY
WALLS AT THE STORM SHELTER AS
SHOWN IN THIS SECTION.
AT SIMILAR CONDITION, PROVIDE
SINGLE REINFORCED 12" CMU
INTERIOR MASONRY WALLS AT THE
STORM SHELTER AS SHOWN IN
SECTION 3/S3.2.



SECTION (5) (5A) (S3.2) (S3.2)



SECTION (6) S3.2



SECTION (7) (S3.2)

JOB NO. **22-20**

SHEET NO: **S3.2**

0 1" 2

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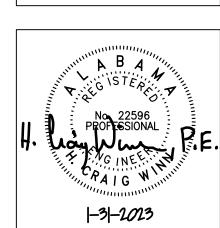
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78989 AL HIGHWAY 77, LINCOLN, ALABAMA 35096
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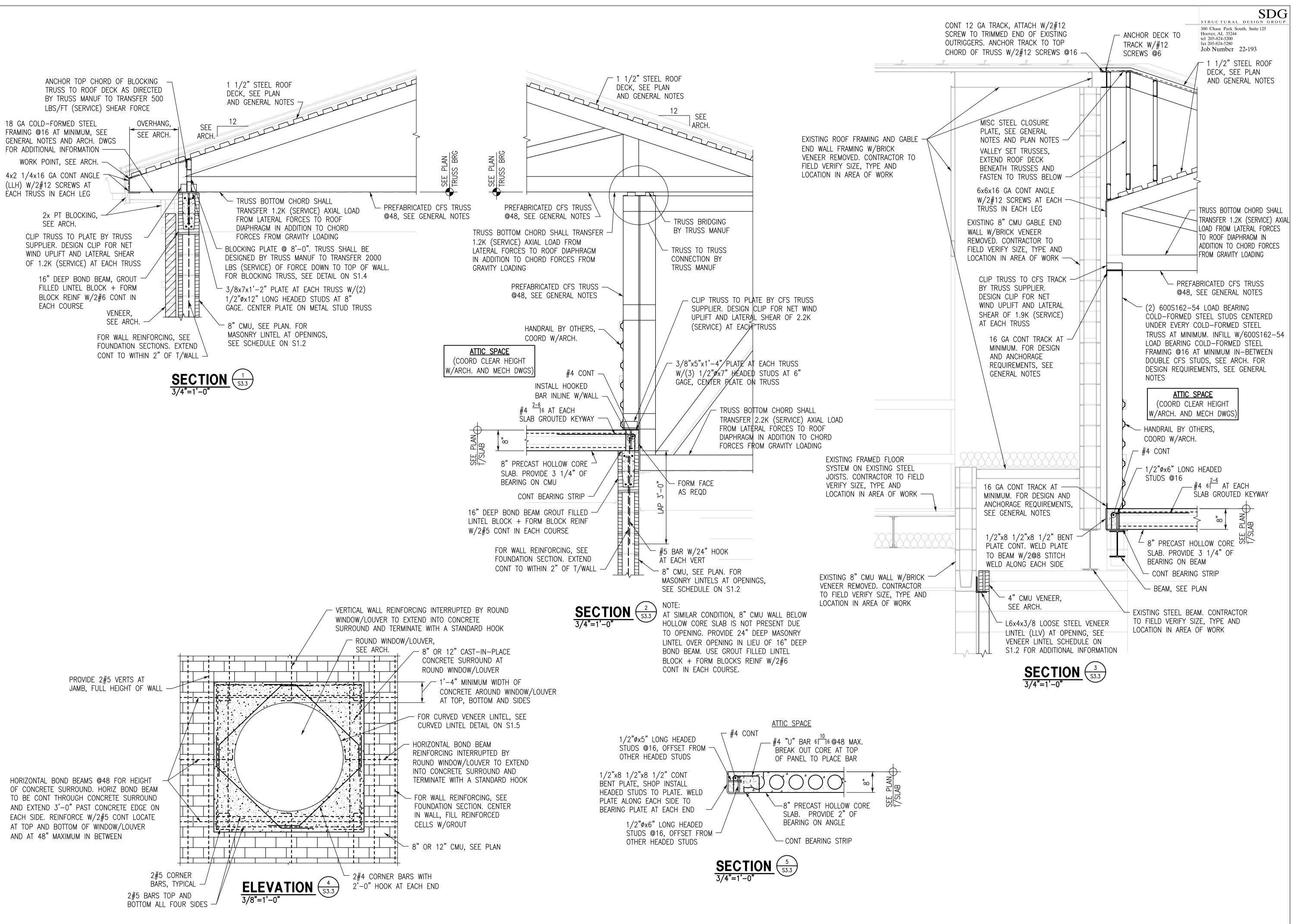
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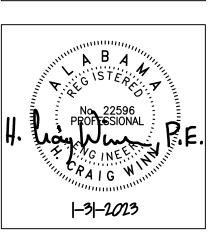
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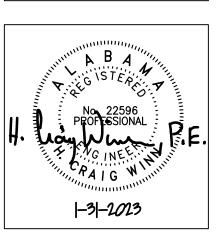
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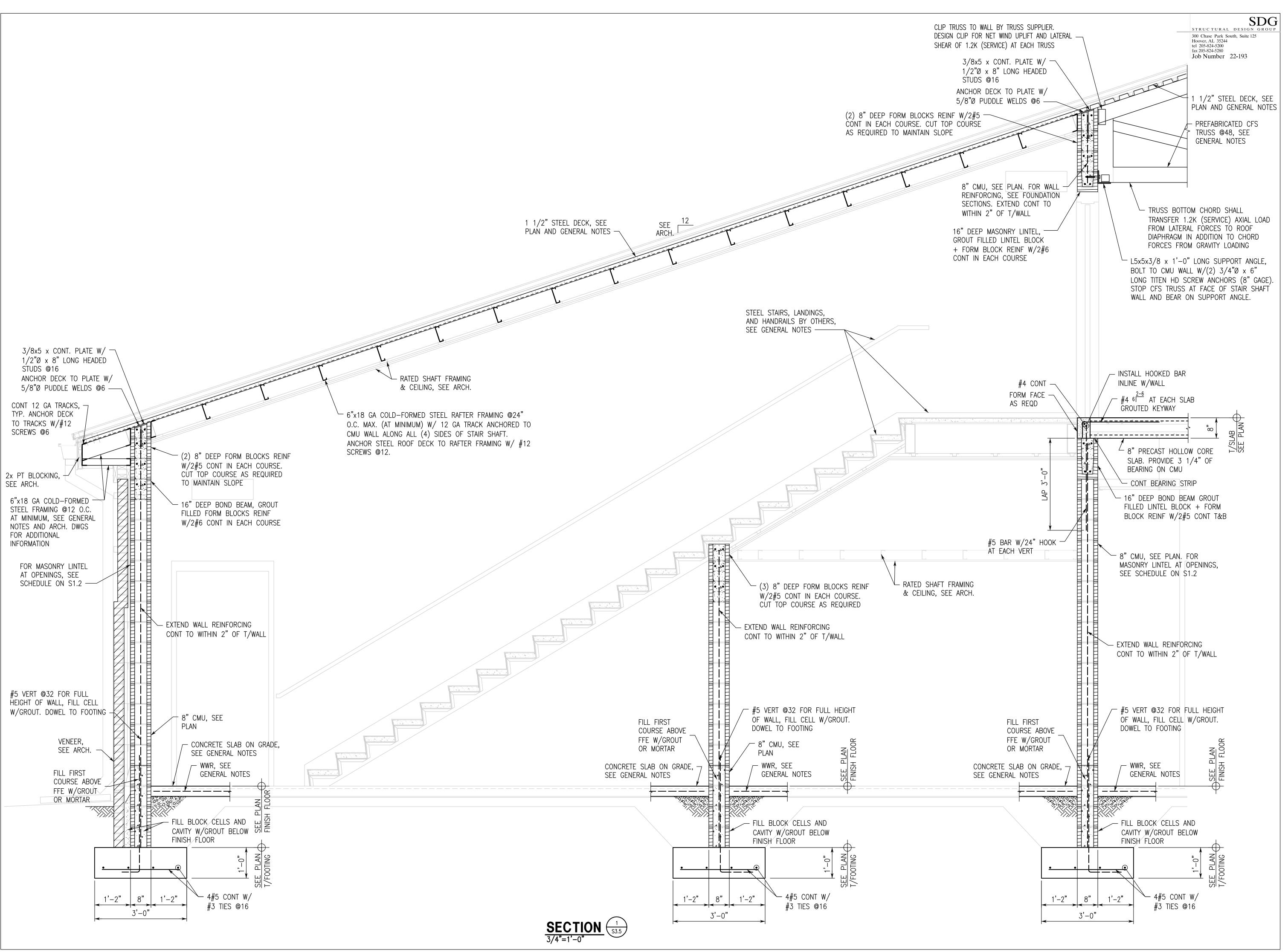
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S3.4

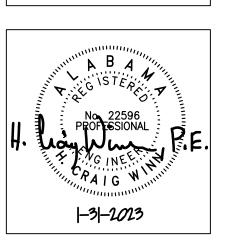
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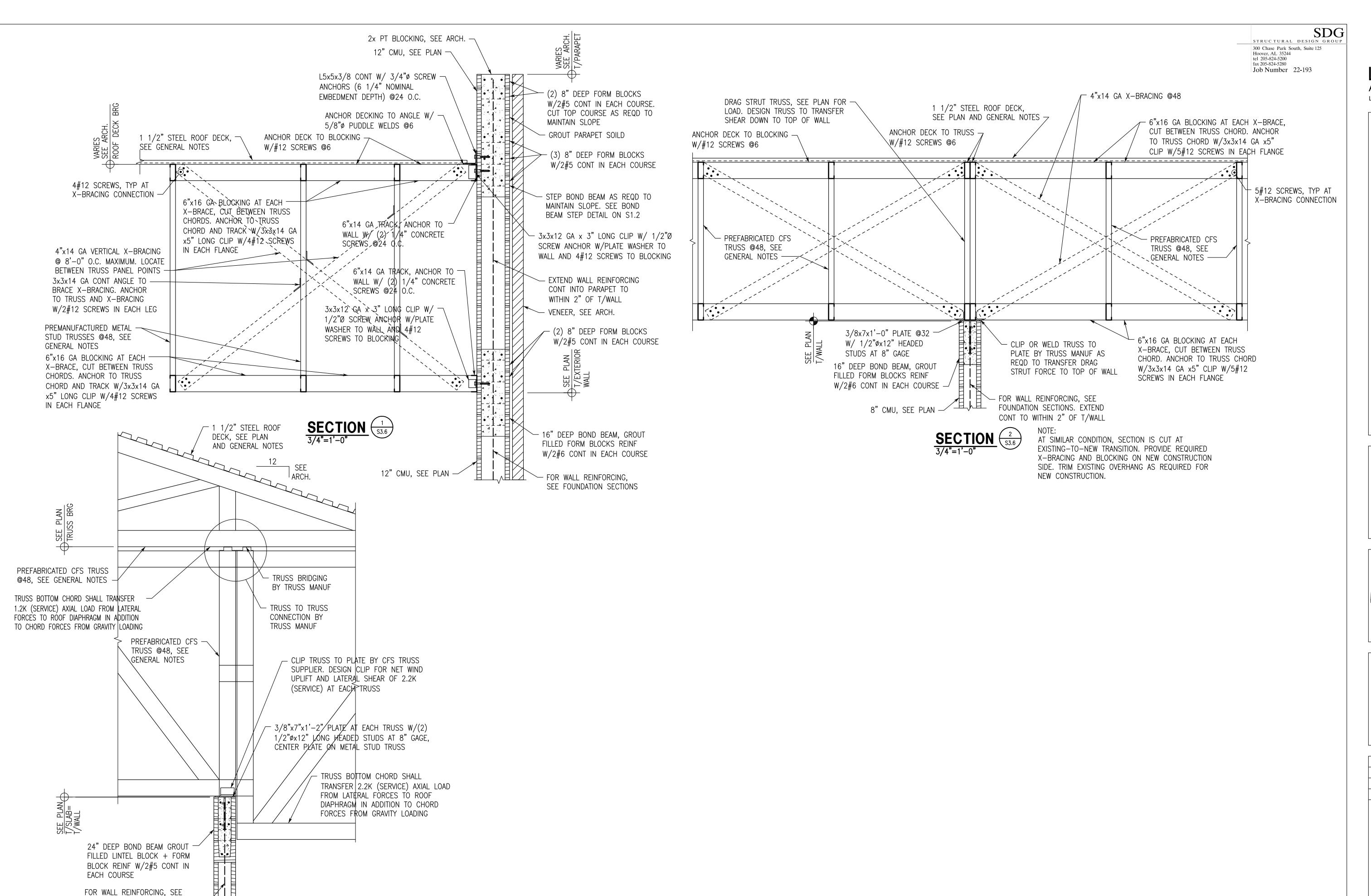
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JOB NO. **22-20**

JOB NO. 22-20 SHEET NO:

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0 1" 2



FOUNDATION SECTION. EXTEND CONT TO WITHIN 2" OF T/WALL -

8" CMU, SEE PLAN.

FOR MASONRY LINTELS AT OPENINGS, SEE SCHEDULE ON S1.2

SECTION 3

3/4"=1'-0"

AT SIMILAR CONDITION, 8" CMU WALL BELOW IS NOT

USE GROUT FILLED LINTEL BLOCK + FORM BLOCKS

REINF W/2#5 CONT IN EACH COURSE.

PRESENT DUE TO OPENING. PROVIDE 32" DEEP MASONRY

LINTEL OVER OPENING IN LIEU OF 24" DEEP BOND BEAM.

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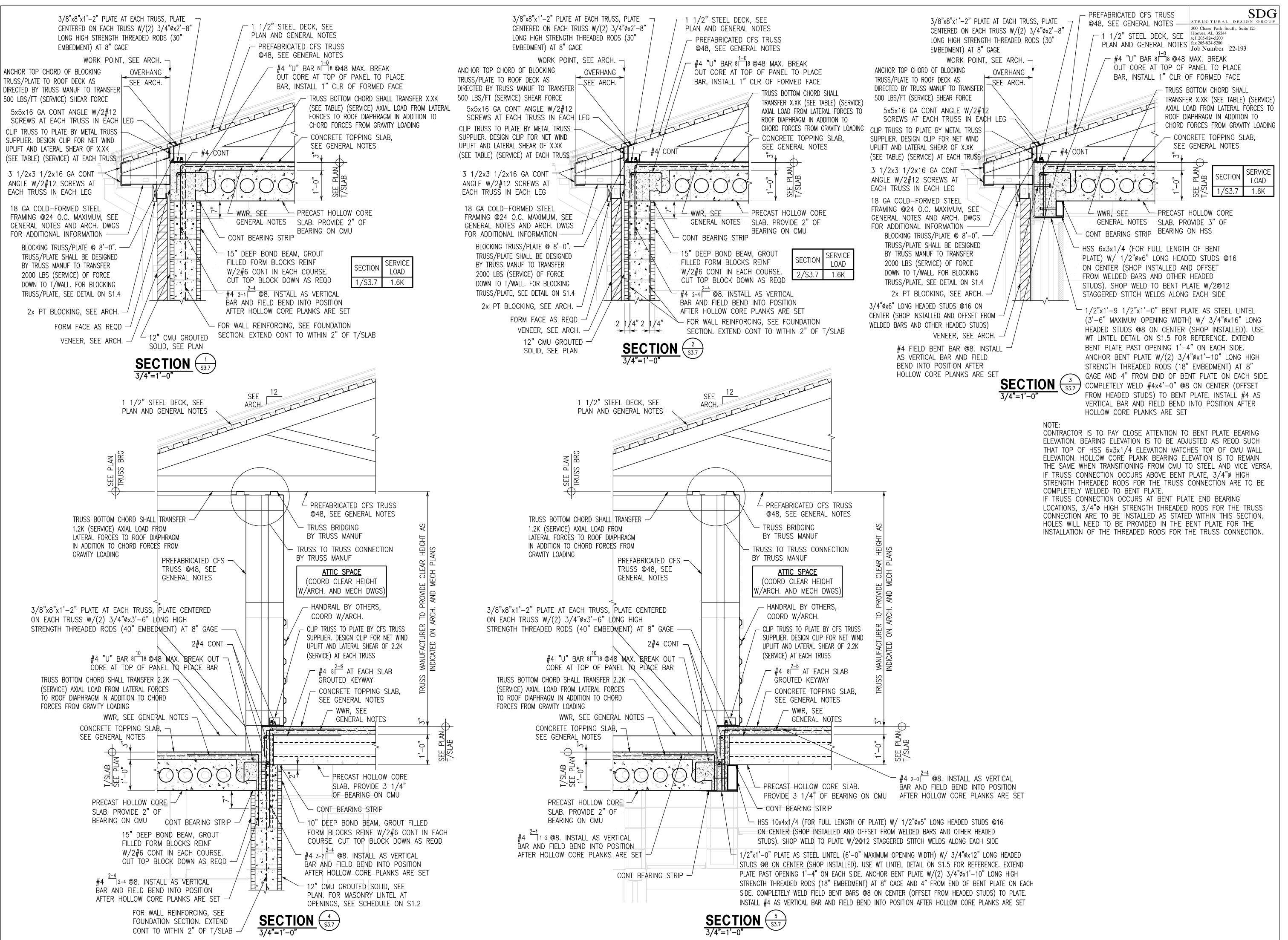
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0 1" 2





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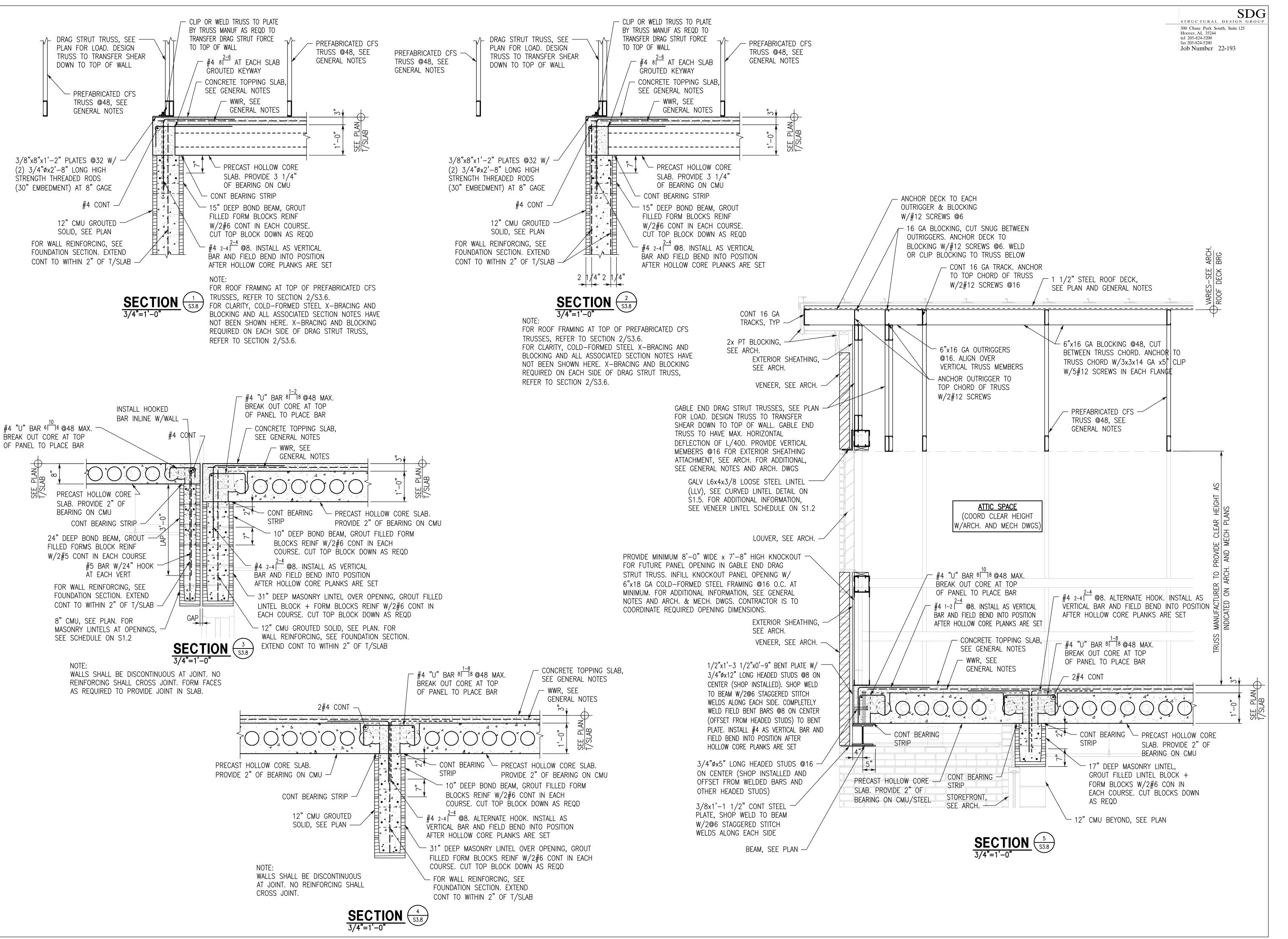
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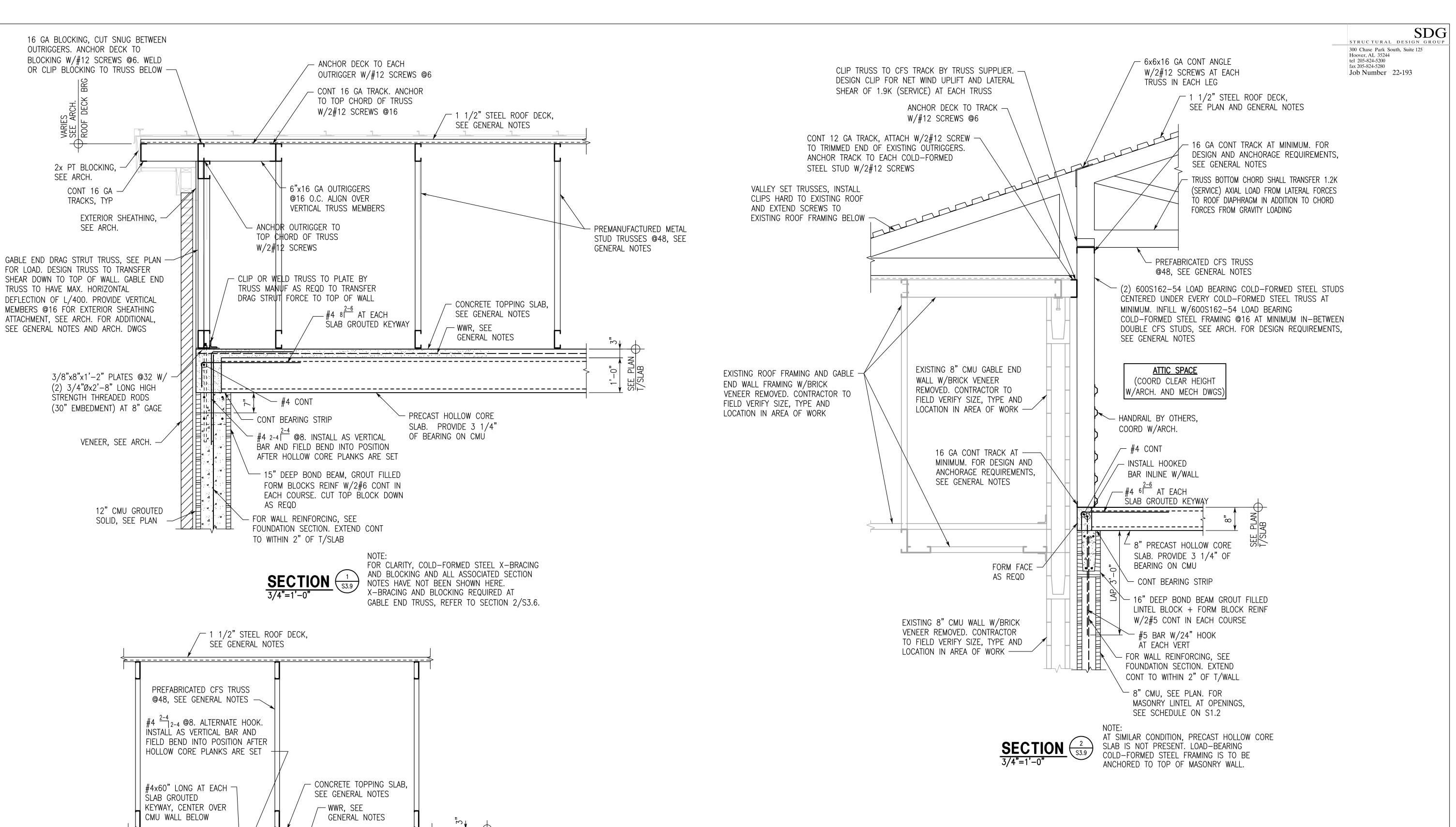
REVISIONS

JOB NO. **22-20**

SHEET NO:

S3.8

17 OF 19
0 1" 2



PRECAST HOLLOW CORE -

CONT BEARING STRIP

8" OR 12" CMU

GROUTED SOLID,

SEE PLAN

SLAB. PROVIDE 3 1/4"

OF BEARING ON CMU

-PRECAST HOLLOW CORE

SLAB. PROVIDE 3 1/4"

AT SECTION 3A/S3.9, DRAG STRUT TRUSS IS PRESENT OVER WALL. PROVIDE 3/8"x8"x1'-2" PLATES @32" W/

(30" EMBEDMENT) AT 8" GAGE. COLD—FORMED STEEL X—BRACING AND BLOCKING REQUIRED AS WELL, REFER

2) 3/4"Øx2'-8" LONG HIGH STRENGTH THREADED RODS

OF BEARING ON CMU

15" BOND BEAM, GROUT FILLED FORM
BLOCKS REINF W/2#6 CONT IN EACH
COURSE. CUT TOP BLOCK DOWN AS REQD

- CONT BEARING STRIP

FOR WALL REINFORCING, SEE

TO WITHIN 2" OF T/SLAB

FOUNDATION SECTION. EXTEND CONT

TO SECTION 2/S3.6.



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DATE: JANUARY 31, 2023

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JOB NO. **22-20**

SHEET NO:

S3.9
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0 1" 2

FOR SLAB INFORMATION, SEE PLAN AS WELL AS SECTIONS 2/S3.3 & 1/S3.5 T/SLAB SEE PL/ 48" DEEP MASONRY LINTEL, GROUT FILLED LINTEL BLOCK + FORM BLOCKS REINF W/2#5 CONT IN EACH COURSE. FOR ADDITIONAL INFORMATION, SEE NOTES FOR MASONRY LINTEL SCHEDULE ON \$1.2. HOOK CONT REINF INTO MASONRY COLUMNS AT EACH END W/ STANDARD HOOKS FOR MASONRY COLUMN, SEE PLAN — - FOR MASONRY FOR FOOTING AND WALL COLUMN, SEE PLAN INFORMATION, SEE PLAN AS WELL AS SECTIONS 3/S3.1 & 1/S3.5 FOR FOOTING AND WALL INFORMATION, SEE PLAN AS WELL AS SECTIONS 3B/S3.1 & 1/S3.5 - FOR SLAB ON GRADE INFORMATION, SEE PLAN AS WELL AS SECTIONS 3/S3.1 & 1/S3.5

ELEVATION (3/4"=1'-0"

STRUCTURAL DESIGN GROUP

300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5280
Job Number 22-193

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JOB NO. **22-20**

SHEET NO:

S3.10

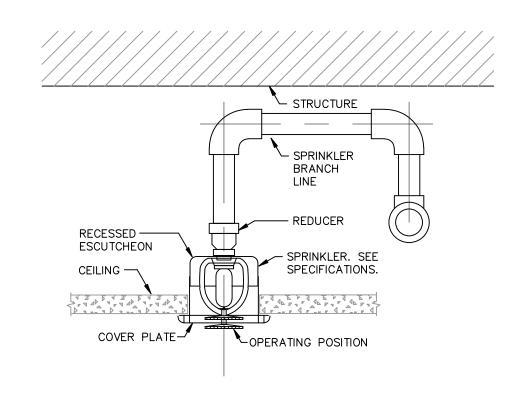
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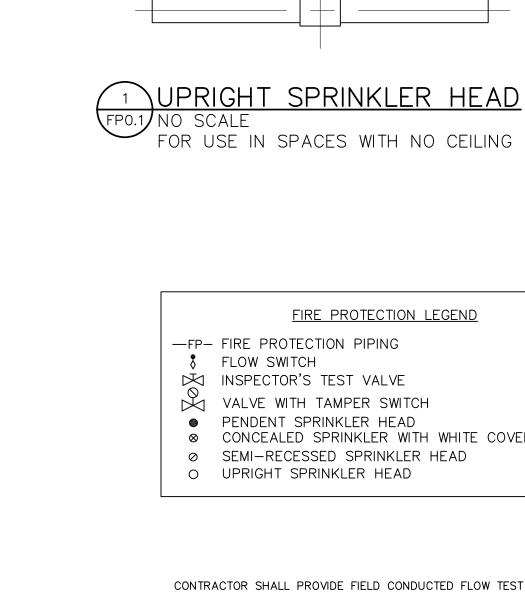
	FIRE PROTECTION ZONE SCHEDULE										
			SUPPLY SOURCE	NFPA CLASSIFICATIONS			SPRINI	KLER	REMARKS		
	COVERAGE	OVERAGE FOOTAGE			OCCUPANCY	GROUP	SPECIAL COMBUSTIBLE CLASSIFICATIONS (COMMODITIES)	STYLE	TEMPERATURE		
ZONE 1	WET SYSTEM	13,780	WET	EXISTING	LIGHT HAZARD		NONE	VARIES	ORDINARY	1), 2), 3)	

REMARKS:

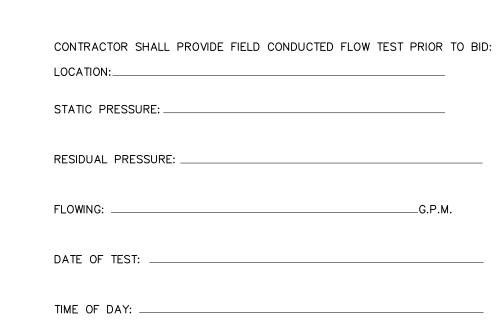
1) LIMITED AREAS MAY BE ORDINARY HAZARD. CONTRACTOR SHALL ARRANGE SPRINKLERS IN SUCH AREAS AS REQUIRED IN NFPA-13.
2) UPRIGHT SPRINKLER HEADS SHALL BE INSTALLED IN AREAS WITHOUT DROPPED CEILINGS. PENDENT HEADS MAY BE USED IF REQUIRED.
3) ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE.







SPRINKLER. SEE — SPECIFICATIONS.



STRUCTURE

— REDUCER

LINE

FIRE PROTECTION LEGEND

⊗ CONCEALED SPRINKLER WITH WHITE COVER PLATE

INSPECTOR'S TEST VALVE VALVE WITH TAMPER SWITCH

PENDENT SPRINKLER HEAD

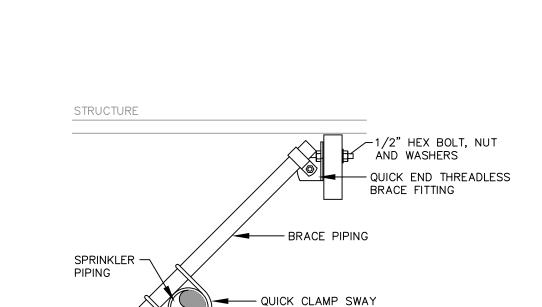
O UPRIGHT SPRINKLER HEAD

Ø SEMI−RECESSED SPRINKLER HEAD

- 1 INCH TEE (1/2 INCH

TEES NOT ALLOWED)

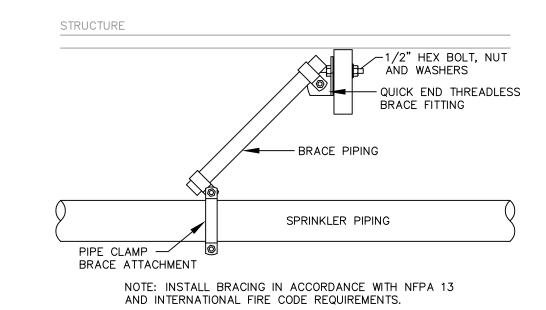
- SPRINKLER BRANCH



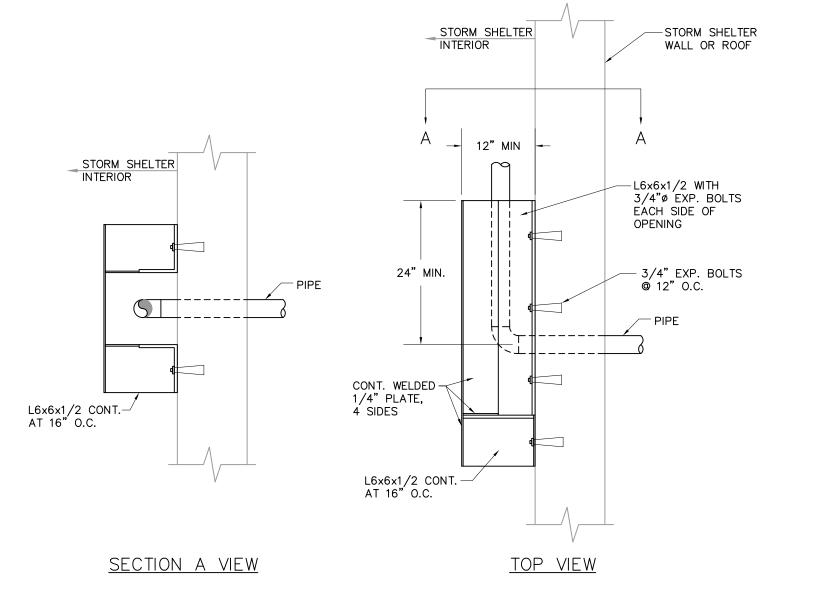
BRACK ATTACHMENT

NOTE: INSTALL BRACING IN ACCORDANCE WITH NFPA 13 AND INTERNATIONAL FIRE CODE REQUIREMENTS.



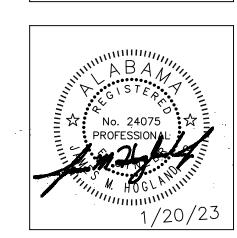


<u>LONGITUDINAL SEISMIC BRACE DETAIL</u>



3 STORM SHELTER PENETRATION PROTECTION DETAIL





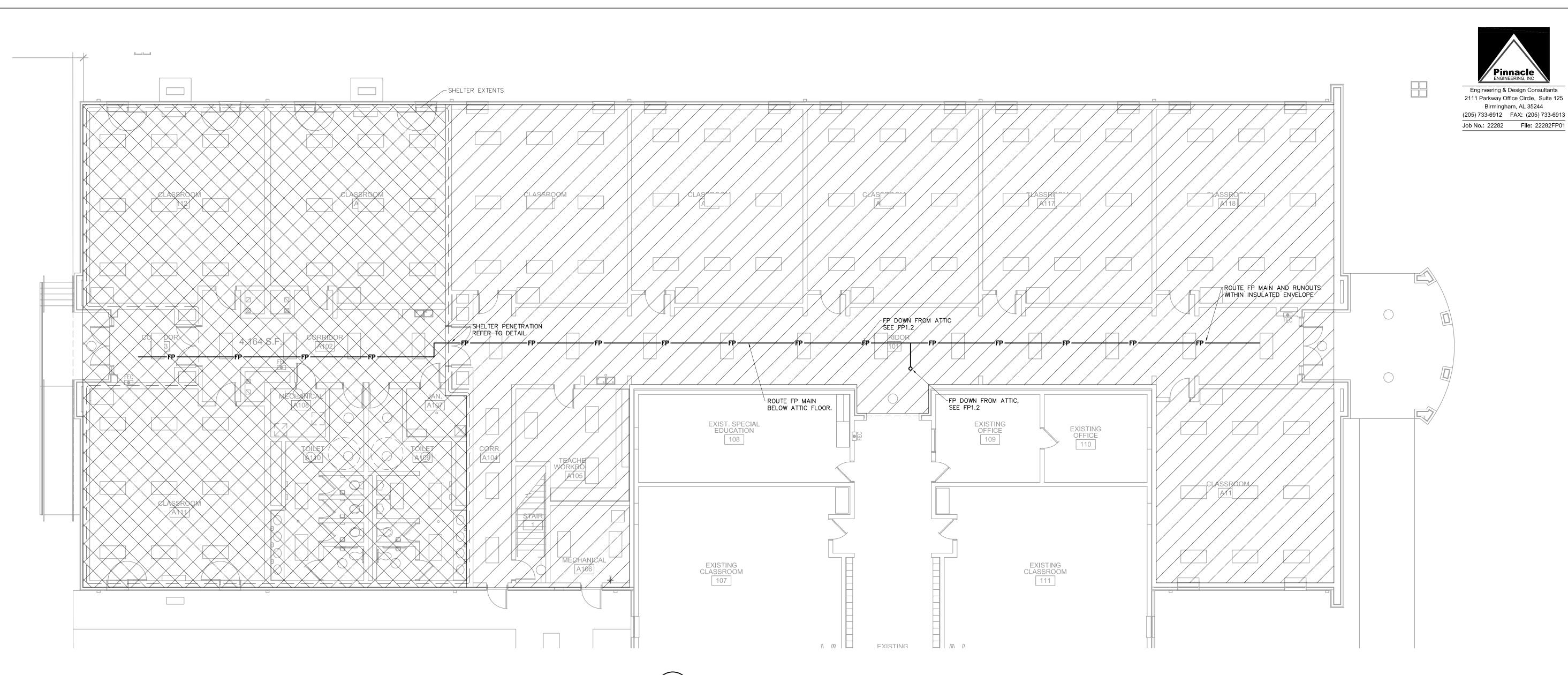
SHEET TITLE: FIRE PROTECTION LEGEND, ABBREVIATIONS, SCHEDULES AND DETAILS

PROJ. MGR.: JMH ZBL/CRA DRAWN: DATE: 1/20/23 REVISIONS

JOB NO. **22-20**

SHEET NO:

FP0.1





FIRE PRO	TECTION LEGEND
	PROVIDE NEW HEADS PER NFPA 13
	PROVIDE NEW HEADS PER NFPA 13 WITHIN SHELTER
	BLANK SPACE INDICATES NO FIRE PROTECTION UNDER THIS CONTRACT

GENERAL NOTES:

- FIRE PROTECTION LAYOUTS SHOWN ON PLANS ARE FOR INFORMATIONAL PURPOSES ONLY. IT IS THE INTENT OF THESE DRAWINGS TO INDICATE AREAS OF COVERAGE, TYPES OF SPRINKLER HEADS AND FINISHES TO BE USED, TYPES OF FIRE PROTECTION SYSTEM TO BE INSTALLED, AND LOCATIONS OF MAJOR EQUIPMENT AND COMPONENTS. THE FIRE PROTECTION CONTRACTOR SHALL DESIGN A FULL AND COMPLETE FIRE PROTECTION SYSTEM BASED ON HYDRAULIC INFORMATION, LAYOUT OF PIPING SYSTEM AS COORDINATED WITH OTHER TRADES AND SPECIFIC COMPONENTS USED IN FIRE PROTECTION SYSTEM. ALL DESIGNS SHALL BE IN ACCORDANCE WITH NFPA 13.
- PIPING LAYOUT SHOWN IS DIAGRAMMATIC AND NOT INTENDED TO SHOW ALL OFFSETS AND CHANGES IN ELEVATION NECESSARY FOR COMPLETE INSTALLATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING BID.
- (3) CONTRACTOR SHALL PROVIDE NECESSARY OFFSETS IN NEW AND EXISTING PIPING AND ELECTRICAL CONDUIT AS REQUIRED TO ACCOMMODATE NEW WORK. CONTRACTOR SHALL ALLOW FOR ANY CONFLICTS ENCOUNTERED.
- 4) REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR LOCATION OF LIGHTS, DIFFUSERS, GRILLES AND ALL OTHER CEILING MOUNTED DEVICES. COORDINATE WITH THE REFLECTED CEILING PLAN TO DETERMINE ACTUAL LOCATION OF
- (5) ALL NEW FIRE PROTECTION PIPING SHALL BE INSTALLED AS CLOSE TO STRUCTURE AS POSSIBLE.
- 6 ALL UNUSED FIRE PROTECTION PIPING, WHETHER NEW OR EXISTING SHALL BE REMOVED. ALL SPRINKLER HEADS INSTALLED UNDER THIS CONTRACT SHALL BE NEW.
- 7 SPACE ABOVE CEILING IS LIMITED. CAREFUL COORDINATION WITH LIGHTING, ELECTRICAL, PLUMBING, STRUCTURE, AND ARCHITECTURAL TRADES IS CRITICAL TO COMPLETE INSTALLATION.
- (8) COORDINATION SHOP DRAWINGS SHALL BE PREPARED FOR THE ENTIRE PROJECT DRAWN TO 1/4" = 1'-0" SCALE (MINIMUM). DRAWINGS SHALL BE FULLY DIMENSIONED, INCLUDING ELEVATIONS OF DUCTWORK, PIPING, MAJOR HANGING SUPPORTS AND MAJOR ELECTRICAL CONDUIT (2" AND LARGER). CEILING COORDINATION PLANS SHALL ALSO SHOW CEILING GRID, LIGHTING LAYOUT, SPRINKLER LAYOUT, AND MECHANICAL GRILLES.
- 9 GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTION, VERIFICATION, AND SUBMITTAL OF SHOP DRAWINGS TO OWNER, ARCHITECT, AND ENGINEER.
- 10) ALL SPRINKLERS WITHIN THE SCOPE OF THIS PROJECT SHALL BE QUICK RESPONSE TYPE. SPRINKLER HEADS USED SHALL COMPLY WITH WITH COMPARTMENTALIZATION REQUIREMENTS OF NFPA-13.
- (11) CONTRACTOR SHALL PROVIDE TEST AND DRAIN CONNECTION IN ACCORDANCE WITH NFPA-13. DRAIN SHALL DISCHARGE TO A LOCATION CAPABLE OF ACCEPTING FULL FLOW UNDER NORMAL SYSTEM PRESSURE WITHOUT CAUSING WATER DAMAGE.
- ALL DISRUPTIONS IN UTILITY SERVICES MUST BE CLOSELY COORDINATED WITH ENGINEERING SERVICES. NO SHUTDOWN SHALL PROCEED WITHOUT PRIOR APPROVAL FROM OWNER.
- 13 SYSTEM DESIGN AND INSTALLATION SHALL COMPLY WITH NFPA 72 AND NFPA 70.
- (14) SEISMIC DESIGN CATEGORY IS C, PROVIDE SEISMIC BRACING FOR FP PIPING IN ACCORDANCE WITH NFPA 13 REQUIREMENTS.

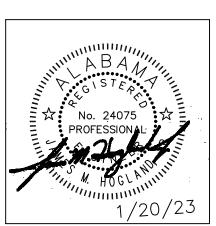


COOM ADDITION TO

COLN HIGH SCHOOL

GHWAY 77, LINCOLN, ALABAMA 35096

EGA COUNTY BOARD OF EDUCATION



SHEET TITLE:
FIRE PROTECTION
FLOOR PLAN

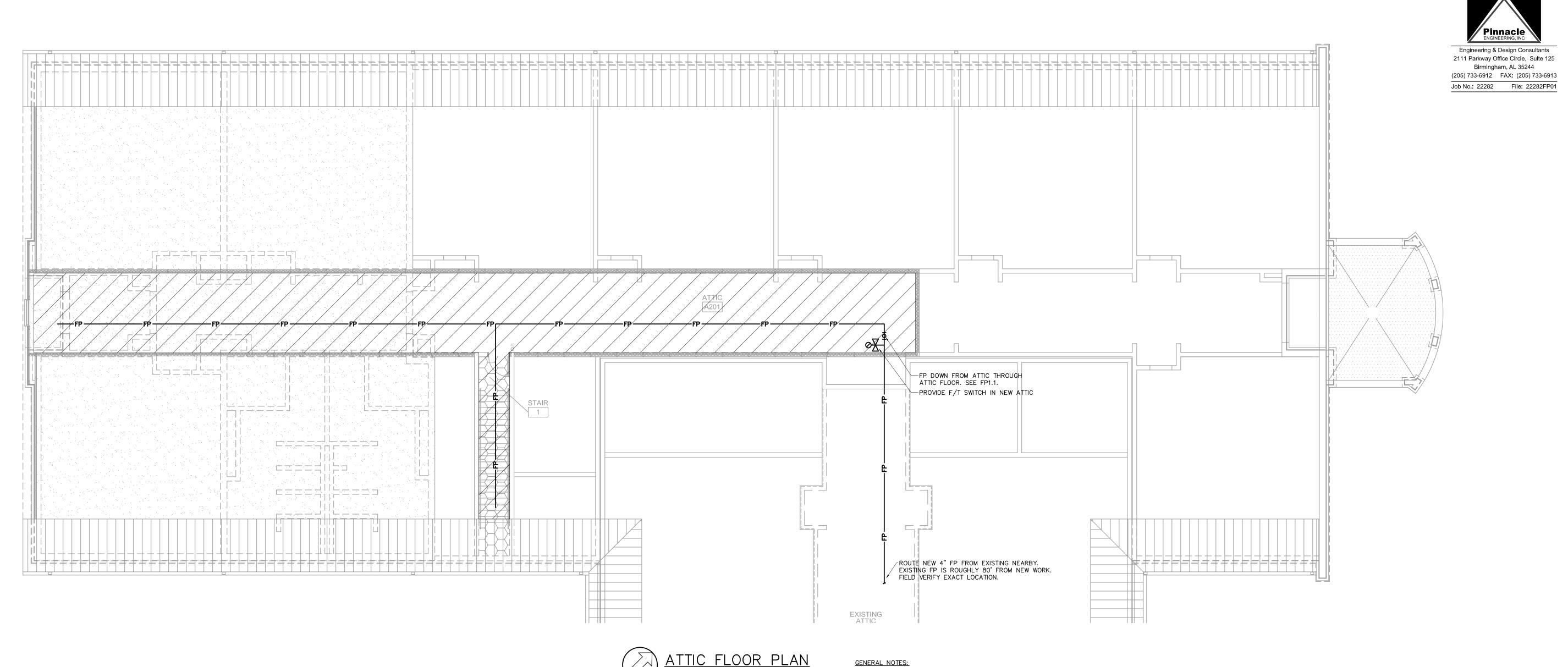
PROJ. MGR.: JMH
DRAWN: ZBL/CRA
DATE: 1/20/23
REVISIONS

JOB NO. **22-20**

SHEET NO:

FP1 1

0 1" 2



0 2 4 6 8

GRAPHIC SCALE (FEET)

FIRE PROTECTION LEGEND

PROVIDE NEW HEADS PER

NFPA 13 IN ATTIC AND AND STAIR

BLANK SPACE INDICATES

NO FIRE PROTECTION UNDER THIS CONTRACT



(1) FIRE PROTECTION LAYOUTS SHOWN ON PLANS ARE FOR INFORMATIONAL PURPOSES ONLY. IT IS THE INTENT OF THESE DRAWINGS TO INDICATE AREAS OF COVERAGE, TYPES OF SPRINKLER HEADS AND FINISHES TO BE USED, TYPES OF FIRE PROTECTION SYSTEM TO BE INSTALLED, AND LOCATIONS OF MAJOR EQUIPMENT AND COMPONENTS. THE FIRE PROTECTION CONTRACTOR SHALL DESIGN A FULL AND COMPLETE FIRE PROTECTION SYSTEM BASED ON HYDRAULIC INFORMATION, LAYOUT OF PIPING SYSTEM AS COORDINATED WITH OTHER TRADES AND SPECIFIC COMPONENTS USED IN FIRE PROTECTION SYSTEM. ALL DESIGNS SHALL BE IN ACCORDANCE WITH NFPA 13.

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- -FP- FIRE PROTECTION PIPING FLOW SWITCH
- INSPECTOR'S TEST VALVE VALVE WITH TAMPER SWITCH PENDENT SPRINKLER HEAD
- SECONCEALED SPRINKLER WITH WHITE COVER PLATE
- O UPRIGHT SPRINKLER HEAD

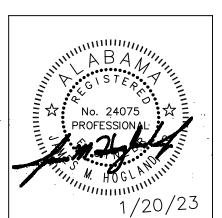
CONTRACTOR	SHALL	PROVIDE	FIELD	CONDUCTED	FLOW	TEST	PRIOR	то	В
LOCATION:									

STATIC PRESSURE:	
RESIDUAL PRESSURE:	

DATE OF TEST:

TIME OF DAY:

LATHAN = BRYANT = CALMA



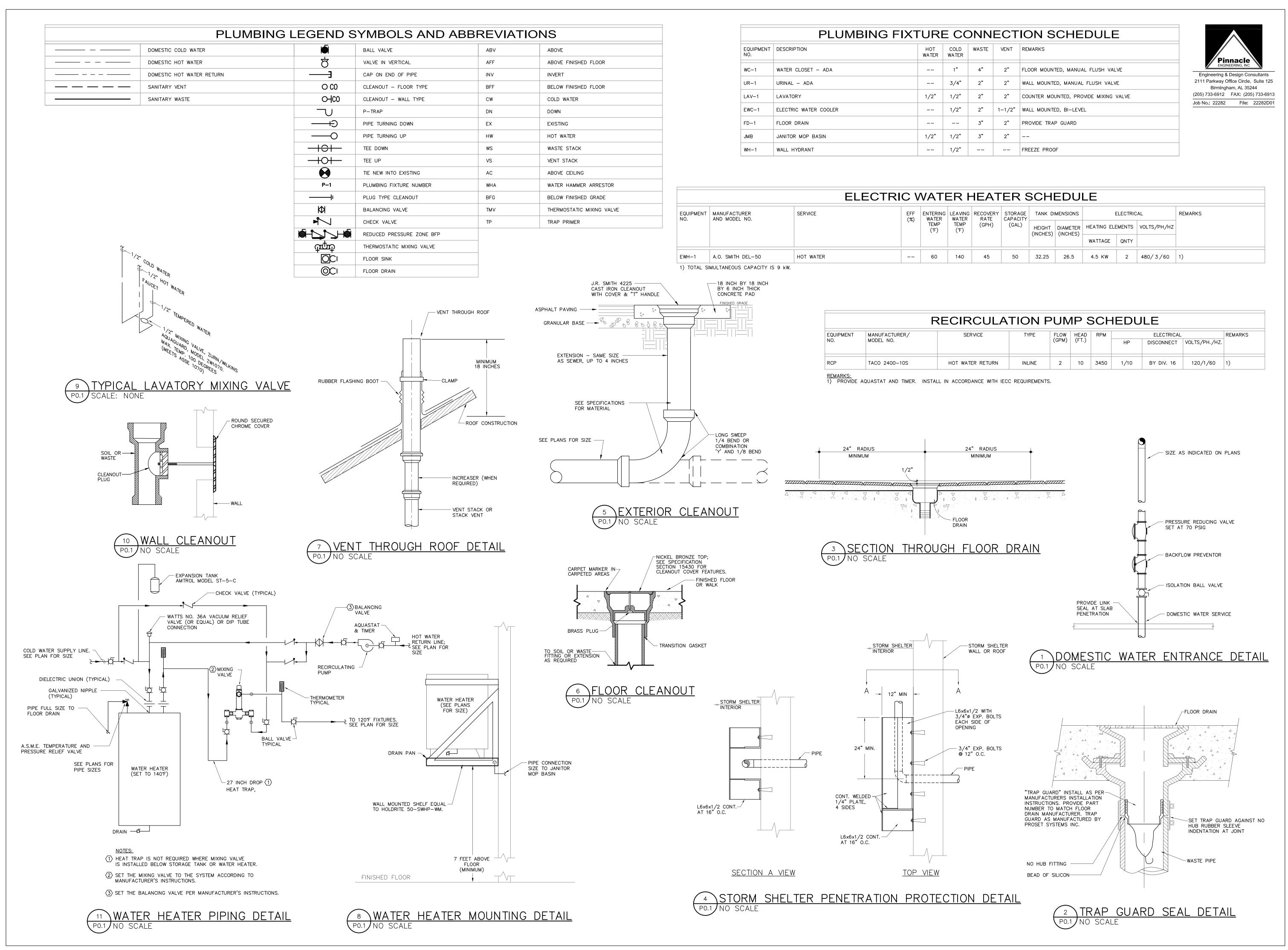
SHEET TITLE: FIRE PROTECTION ATTIC FLOOR PLAN

PROJ. MGR.: JMH DRAWN: ZBL/CRA 1/20/23

REVISIONS

JOB NO. **22-20**

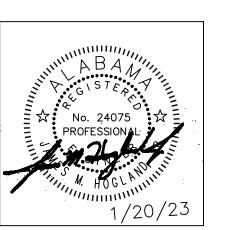
SHEET NO:





CLASSROOM ADDITION TO

LINCOLN HIGH SCHOOL
78975 HIGHWAY 77, LINCOLN, ALABAMA 35096
TALLADEGA COUNTY BOARD OF EDUCATION



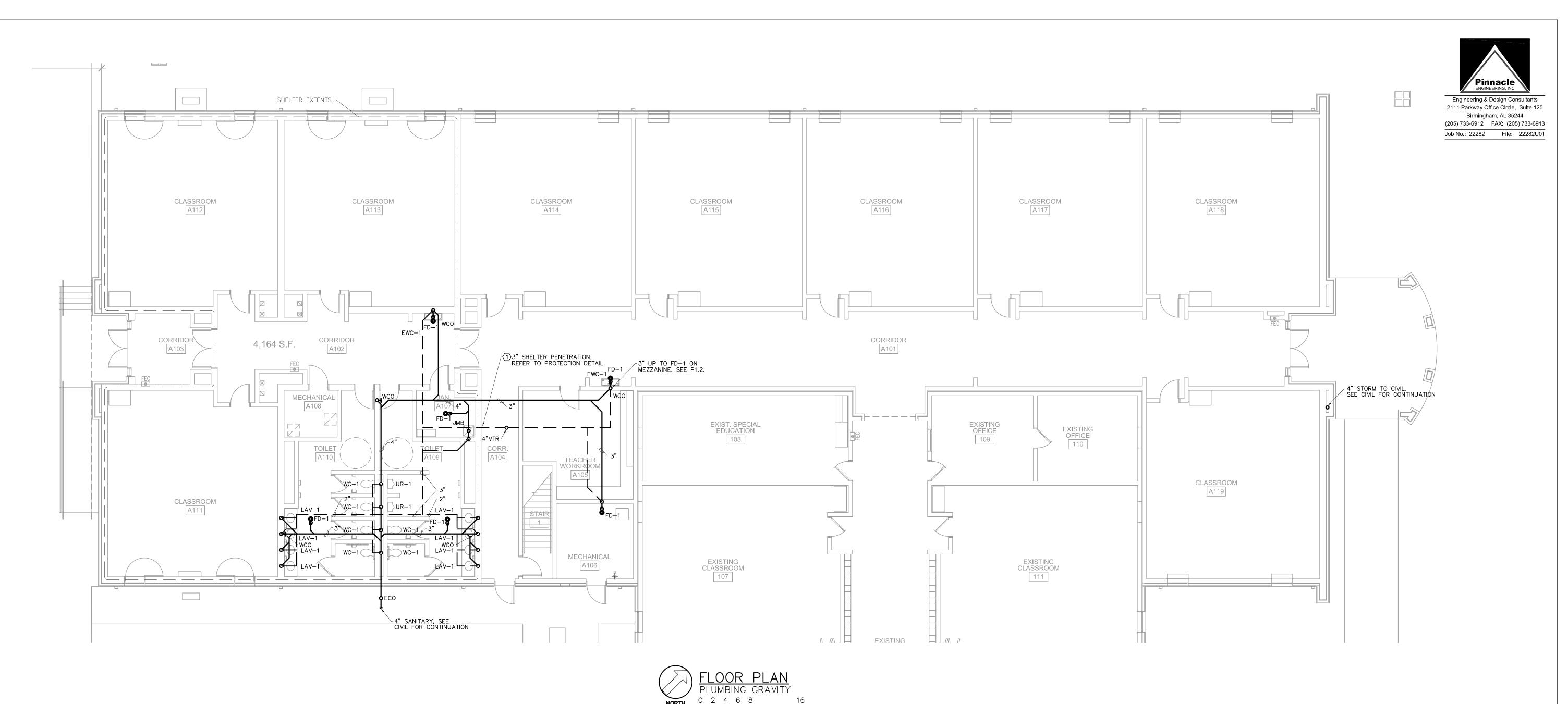
SHEET TITLE:
PLUMBING LEGEND,
ABBREVIATIONS, SCHEDULES
AND DETAILS

PROJ. MGR.: JMH
DRAWN: ZBL/CRA
DATE: 1/20/23
REVISIONS

JOB NO. **22-20**SHEET NO:

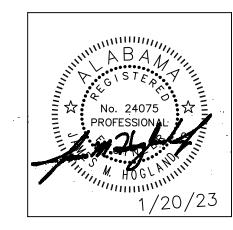
P0.1

0 1" 2'



DRAWING NOTES:

1) PROTECT PENETRATION OPENINGS THROUGH STORM SHELTER PERIMETER IN ACCORDANCE WITH ICC 500 REQUIREMENTS. COORDINATE WITH STRUCTURAL PLANS. ANCHOR PIPING TO INTERIOR OF SHELTER WALL AT PENETRATION. REFER TO DETAIL #4, SHEET PO.1.



LATHAN - BRYANT - CALMA

SHEET TITLE:
PLUMBING GRAVITY
FLOOR PLAN

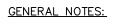
PROJ. MGR.: JMH
DRAWN: ZBL/CRA
DATE: 1/20/23
REVISIONS

JOB NO. **22-20**

SHEET NO:

P1.1

0 1" 2"



GRAPHIC SCALE (FEET)

CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD PRIOR TO BEGINNING WORK.

2 SPACE ABOVE CEILING IS LIMITED. CAREFUL COORDINATION WITH LIGHTING, ELECTRICAL, MECHANICAL, FIRE PROTECTION, STRUCTURAL AND ARCHITECTURAL WORK IS CRITICAL FOR COMPLETE PIPING INSTALLATION. CONTRACTOR SHALL PROVIDE NECESSARY OFFSETS IN NEW AND EXISTING PIPING AND ELECTRICAL CONDUIT AS REQUIRED TO ACCOMMODATE NEW WORK. CONTRACTOR SHALL ALLOW FOR ANY CONFLICTS ENCOUNTERED.

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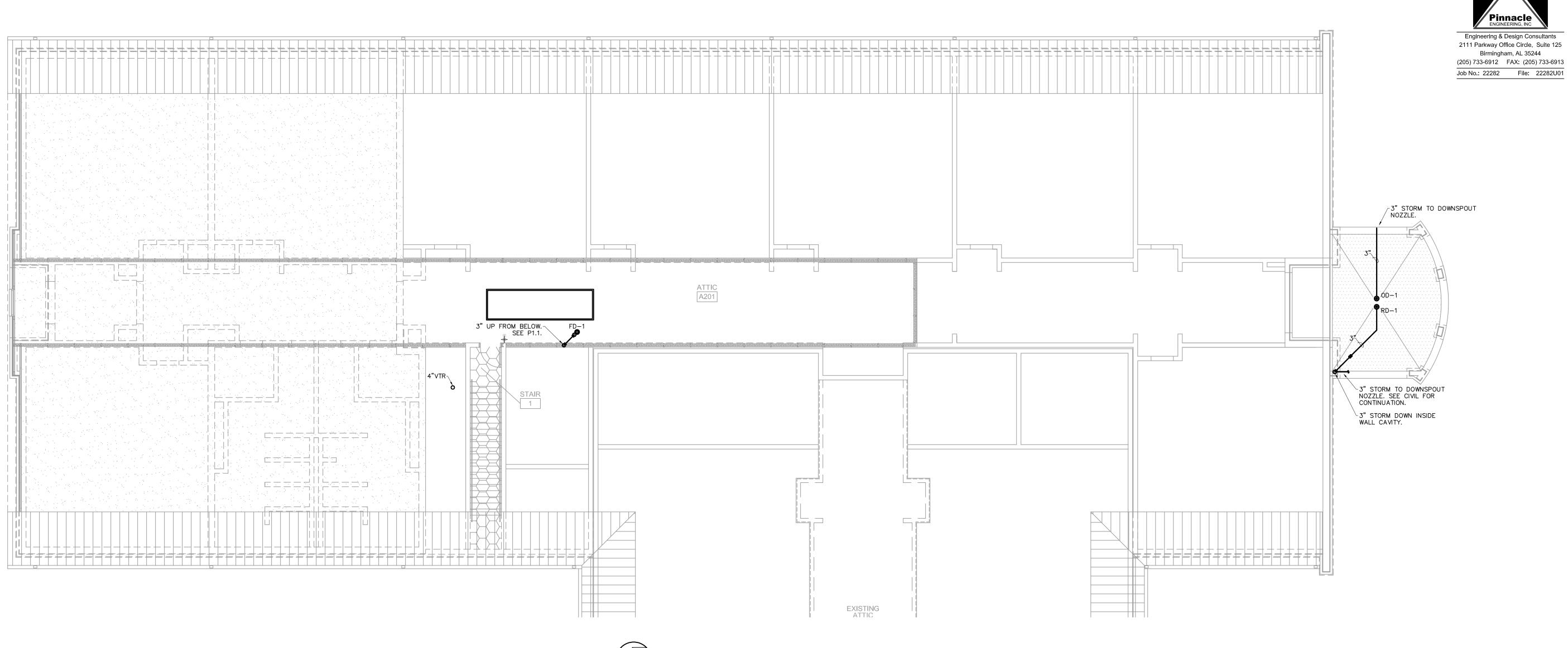
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5) ALL WASTE PIPING SHOWN IS BELOW FINISHED FLOOR UNLESS OTHERWISE NOTED. ALL VENT PIPING SHOWN IS ABOVE CEILING UNLESS OTHERWISE NOTED.

6 REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF ALL CEILING MOUNTED DEVICES. REFER TO ARCHITECTURAL FLOOR PLANS FOR ALL DIMENSIONS.

7 COORDINATE ACCESS DOOR LOCATIONS WITH GENERAL CONTRACTOR AND ARCHITECT.

8 RESTROOM FLOOR DRAINS HAVE BEEN COORDINATED WITH PARTITIONS AND FIXTURES. CONSULT ARCHITECTURAL PLANS TO ENSURE FINAL LOCATION OF PARTITIONS DOES NOT INTERFERE WITH FLOOR DRAINS.





GENERAL NOTES:

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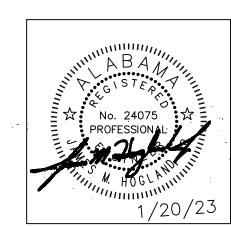


ASSROOM ADDITION TO

NCOLN HIGH SCHOOL

175 HIGHWAY 77, LINCOLN, ALABAMA 35096

LADEGA COUNTY BOARD OF EDUCATION



SHEET TITLE:
PLUMBING GRAVITY
ATTIC FLOOR PLAN

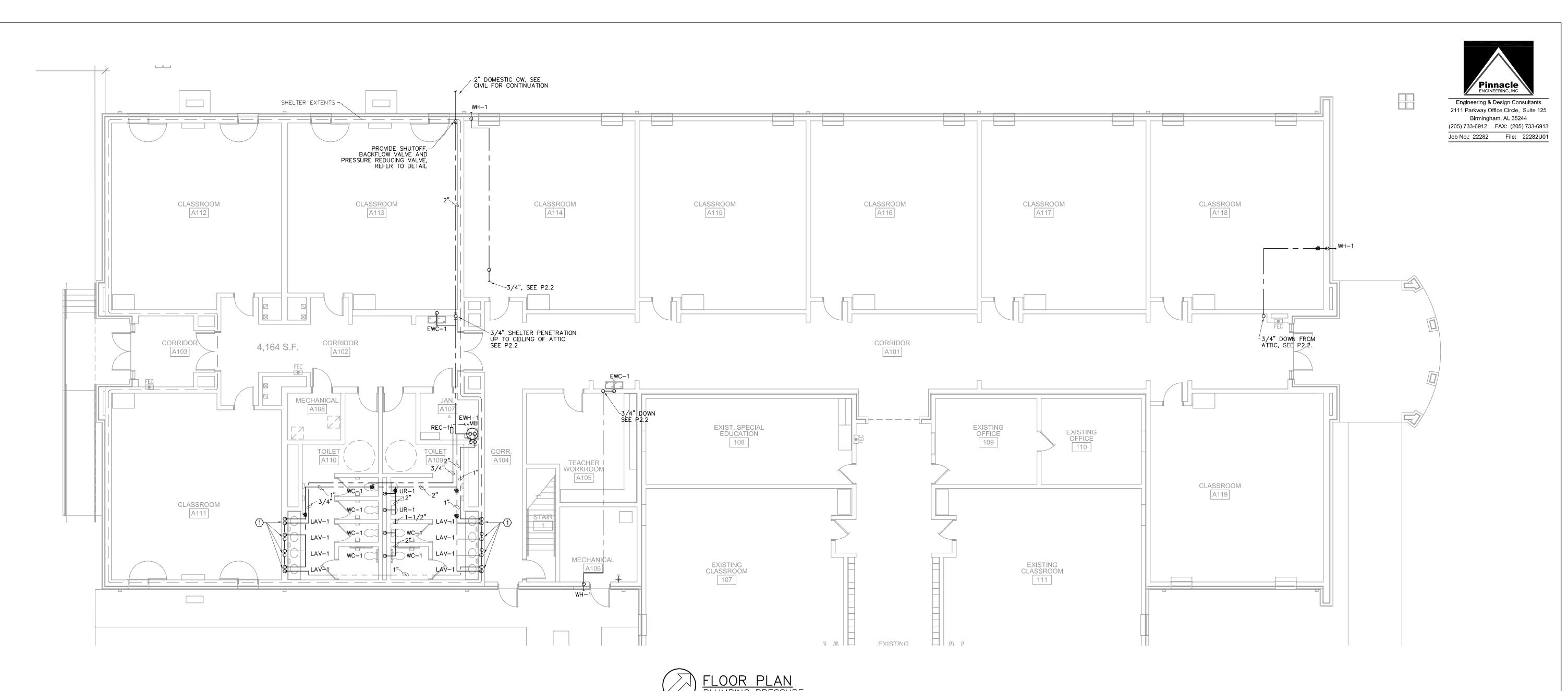
PROJ. MGR.: JMH
DRAWN: ZBL/CRA
DATE: 1/20/23
REVISIONS

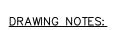
JOB NO. **22-20**

SHEET NO:

P1.2

0 1" 2"



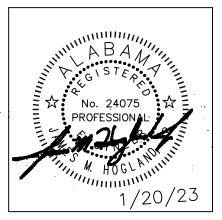


1 HW PIPING SHALL BE ROUTED DOWN IN WALL TO FIXTURE STOP AND LOOPED BACK UP TO NEXT FIXTURE PER IECC CODE. TYPICAL FOR HANDWASHING LAVS.



CLASSROOM ADDITION TO

LINCOLN HIGH SCHOOL
78975 HIGHWAY 77, LINCOLN, ALABAMA 35096
TALLADEGA COUNTY BOARD OF EDUCATION



SHEET TITLE:
PLUMBING PRESSURE
FLOOR PLAN

PROJ. MGR.: JMH
DRAWN: ZBL/CRA
DATE: 1/20/23
REVISIONS

JOB NO. **22-20**SHEET NO:

0 1" 2"

GENERAL NOTES:

GRAPHIC SCALE (FEET)

1) CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD PRIOR TO BEGINNING WORK.

2) SPACE ABOVE CEILING IS LIMITED. CAREFUL COORDINATION WITH LIGHTING, ELECTRICAL, MECHANICAL, FIRE PROTECTION, STRUCTURAL AND ARCHITECTURAL WORK IS CRITICAL FOR COMPLETE PIPING INSTALLATION. CONTRACTOR SHALL PROVIDE NECESSARY OFFSETS IN NEW AND EXISTING PIPING AND ELECTRICAL CONDUIT AS REQUIRED TO ACCOMMODATE NEW WORK. CONTRACTOR SHALL ALLOW FOR ANY CONFLICTS ENCOUNTERED.

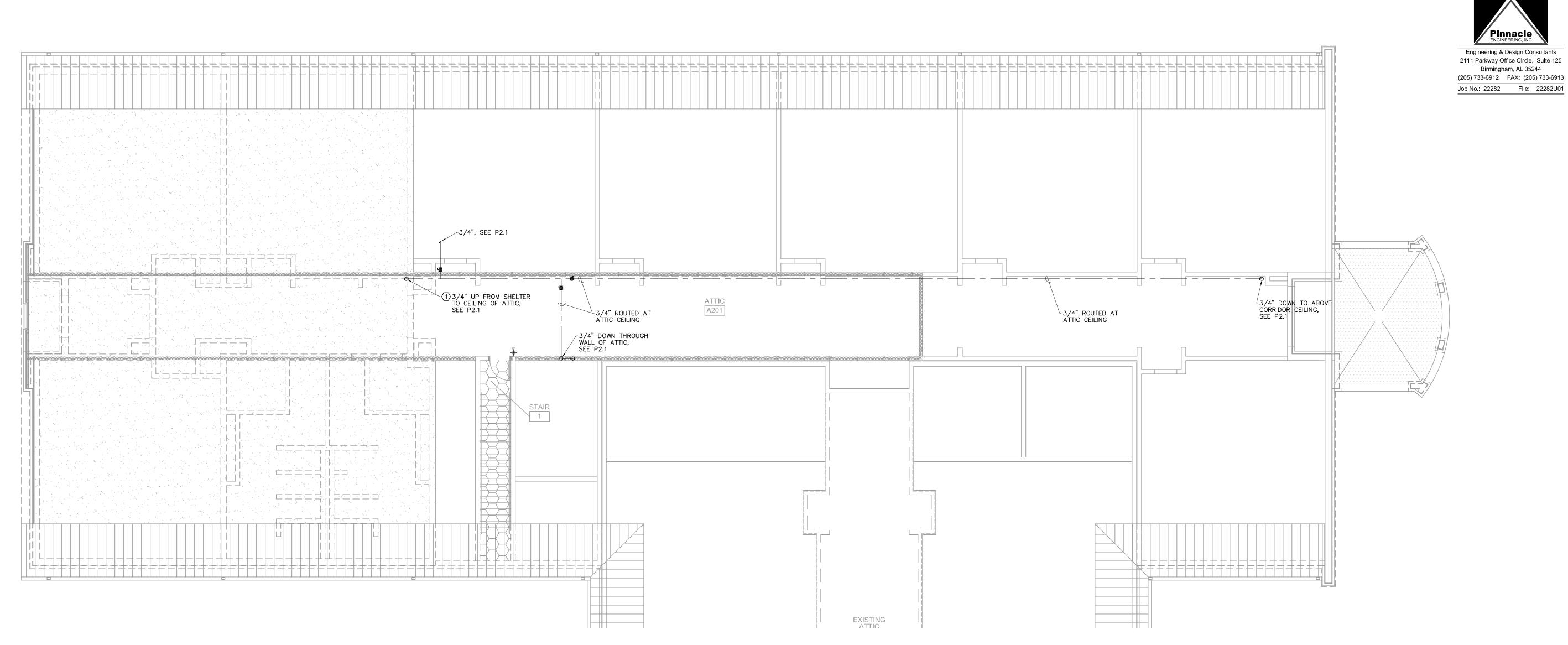
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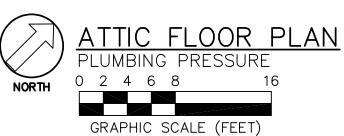
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7 COORDINATE ACCESS DOOR LOCATIONS WITH GENERAL CONTRACTOR AND ARCHITECT.





GENERAL NOTES:

AND ARCHITECT.

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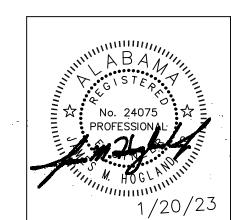
DRAWING NOTES:

1 PROTECT PENETRATION OPENINGS THROUGH STORM SHELTER PERIMETER IN ACCORDANCE WITH ICC 500 REQUIREMENTS. COORDINATE WITH STRUCTURAL PLANS. ANCHOR PIPING TO INTERIOR OF SHELTER WALL AT PENETRATION. REFER TO DETAIL #4, SHEET P0.1.



LASSROOM ADDITION TO

INCOLN HIGH SCHOOL
8975 HIGHWAY 77, LINCOLN, ALABAMA 35096
ALLADEGA COUNTY BOARD OF EDUCATION



SHEET TITLE:
PLUMBING PRESSURE
ATTIC FLOOR PLAN

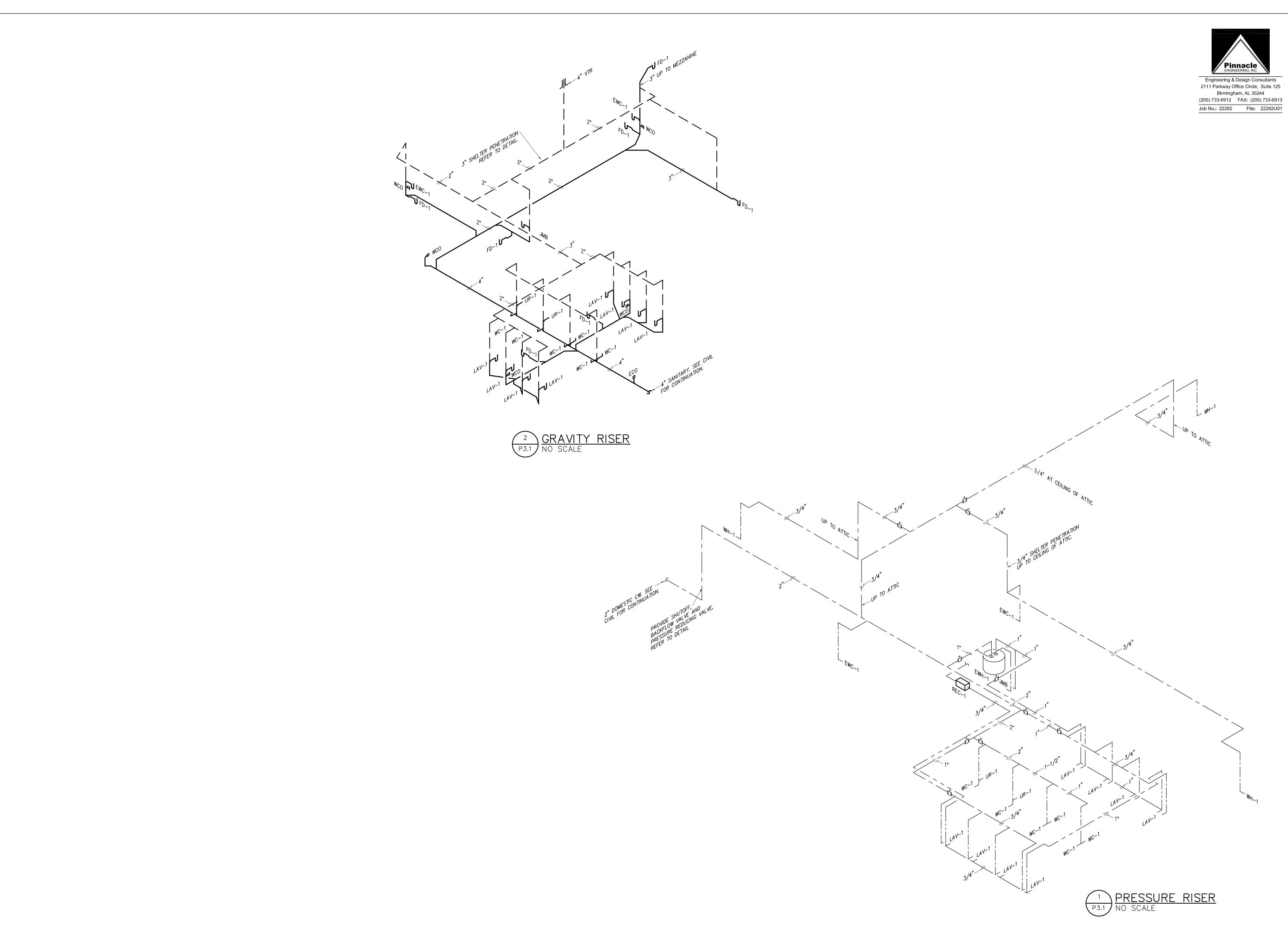
PROJ. MGR.: JMH
DRAWN: ZBL/CRA
DATE: 1/20/23
REVISIONS

JOB NO. **22-20**

SHEET NO:

P2.2

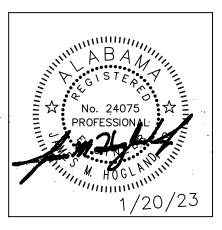
0 1" 2"





SOOM ADDITION TO

SOLN HIGH SCHOO
IGHWAY 77, LINCOLN, ALABAMA 3509
EGA COUNTY BOARD OF EDUCATION



SHEET TITLE: PLUMBING RISERS

PROJ. MGR.:	JMH					
DRAWN:	ZBL/CRA					
DATE:	1/20/23					
REVISIONS						

JOB NO. **22-20**

SHEET NO:

P3.1

0 1" 2"

LEGEND

	AL	381	≺t
	,		

12×20 >	DUCT SIZE, FIRST FIGURE IS SIDE SHOWN	AB.CL'G	ABOVE CEILING
	INSIDE CLEAR DIMENSION UNLESS NOTED OTHERWISE	ABV. AC	ABOVE ALTERNATING CU
24x12	LOW PRESSURE, RECTANGULAR (GALVANIZED STEEL)	A/C AFF AHU	AIR COMPRESSOR ABOVE FINISHED AIR HANDLING U
R	DUCT RISE	AI ALT. AMP	ANALOG INPUT ALTERNATE AMPERE
D -	DUCT DROP	AO APPROX. ARCH.	ANALOG OUTPUT APPROXIMATELY ARCHITECTURAL
	EXISTING DUCTWORK TO REMAIN	AVG B BTU	AVERAGE BOILER BRITISH THERMAI
	DUCT TRANSITION	CFM CH CHWP	CUBIC FEET PER CHILLER CHILLED WATER
	RECTANGULAR TO ROUND DUCT TRANSITION	CLG CT CU CWP	CEILING COOLING TOWER CONDENSING UNI CONDENSER WAT
	TURNING VANES	DEFL DET DI	DEFLECTION DETAIL DIGITAL INPUT
—CHWS——	CHILLED WATER SUPPLY PIPING	DIA Ø	DIAMETER DIAMETER
—CHWR——	CHILLED WATER RETURN PIPING	DO EDB ELEC.	DIGITAL OUTPUT ENTERING DRY B ELECTRICAL
— HWS —	HOT WATER SUPPLY PIPING	ELEV. EWB	ELEVATION ENTERING WET B
— HWR ——	HOT WATER RETURN PIPING	EWT EXH	ENTERING WATER EXHAUST
D	CONDENSATE DRAIN PIPING	EXIST. *F	EXISTING DEGREES FAHREI
——AD——	AUXILIARY CONDENSATE DRAIN PIPING	GFF GPM	GAS FIRED FURN GALLONS PER MI

—MPS(60)— MEDIUM PRESSURE STEAM SUPPLY ——MPR—— MEDIUM PRESSURE STEAM CONDENSATE RETURN — NAME(E) — EXISTING PIPING

-----LPR----- LOW PRESSURE STEAM CONDENSATE RETURN

- NAME(D) - EXISTING PIPING TO BE DEMOLISHED ELBOW, 90° (LONG RADIUS)

—LPS(15)— LOW PRESSURE STEAM SUPPLY

TEE, TURNED UP TEE TURNED DOWN ELBOW, TURNED DOWN ELBOW, TURNED UP

 \longrightarrow GATE VALVE <u>ф</u> BALL VALVE BUTTERFLY VALVE

WALL MOUNTED THERMOSTAT WALL MOUNTED HUMIDISTAT WALL MOUNTED TEMPERATURE SENSOR

WALL MOUNTED CARBON DIOXIDE SENSOR WALL MOUNTED DEVICE W/ COVER GAURD

~~ SMOKE DETECTOR TIE NEW INTO EXISTING UNDERCUT DOOR 3/4 INCHES

SUPPLY AIR FLOW RETURN OR EXHAUST AIR FLOW

NOTE: THIS LEGEND IS FOR REFERENCE ONLY. ALL SYMBOLS WHICH APPEAR WITHIN THE LEGEND MAY NOT APPLY TO THIS PROJECT.

ABBREVIATIONS									
AB.CL'G ABV. AC A/C AFF	ABOVE CEILING ABOVE ALTERNATING CURRENT AIR COMPRESSOR ABOVE FINISHED FLOOR								
AHU AI ALT. AMP	AIR HANDLING UNIT ANALOG INPUT ALTERNATE AMPERE								
AO APPROX. ARCH. AVG B	ANALOG OUTPUT APPROXIMATELY ARCHITECTURAL AVERAGE BOILER								
BTU CFM CH CHWP CLG	BRITISH THERMAL UNIT CUBIC FEET PER MINUTE CHILLER CHILLED WATER PUMP CEILING								
CT CU CWP DEFL DET	COOLING TOWER CONDENSING UNIT CONDENSER WATER PUMP DEFLECTION DETAIL								
DI DIA Ø DO EDB	DIGITAL INPUT DIAMETER DIAMETER DIGITAL OUTPUT ENTERING DRY BULB								
ELEC. ELEV. EWB EWT EXH	ELECTRICAL ELEVATION ENTERING WET BULB ENTERING WATER TEMPERATURE EXHAUST								
EXIST. *F GFF GPM FPM	EXISTING DEGREES FAHRENHEIT GAS FIRED FURNACE GALLONS PER MINUTE FEET PER MINUTE								
FPS FT HD. HP	FEET PER SECOND FOOT OR FEET HEAD HORSE POWER								
HR ⊔⊤	HOUR(S)								

HEIGHT HEATER HEATING, VENTILATION AND AIR CONDITIONING HOT WATER PUMP HEAT EXCHANGER FREQUENCY (HERTZ) INSIDE DIAMETER INCHES KILOWATT KILOWATT HOUR MAXIMUM 1000 BTU PER HOUR MECH. MECHANICAL MANUFACTURER MINIMUM NUMBER NOT APPLICABLE NOISE CRITERIA OUTSIDE DIAMETER OUTSIDE AIR OVAL DUCTWORK ORIGINAL PHASE POWERED INDUCTION UNIT **PRESS** PRESSURE RTN RETURN AIR ROOFTOP AIR HANDLING UNIT SDC SENS. STAND ALONE DIGITAL CONTROLLER SENSIBLE SQUARE SUPPLY TEMPERATURE

VARIABLE AIR VOLUME

WATER PRESSURE DROP

WATT WITH

NUMBER OF DUPLICATE -- FIRST THREE LETTERS REFERENCE AIR DEVICE AIR DEVICES DESIGNATED BY THIS SYMBOL (3) TYPE IN SPECIFICATIONS (CDA) FOURTH CHARACTER INDICATES NECK SIZE IN INCHES ——— (12"x12") BLOW PATTERN (4-WAY). AIR QUANTITY DELIVERED BY DEVICE IN CFM (250 CFM)

	AIR PURIFICATION UNIT SCHEDULE										
EQUIPMENT	MANUFACTURER/	UNIT	SUPPLY	O.A.	. PRESS.		MOUNTING	ELECTRICAL		REMARKS	
NO.	MODEL NO.	SERVED	CFM	CFM	DROP (IN. W.C.)	ION DENSITY (IONS/CC @ 1")	LOCATION	VOLTS	WATTS		
APU-PTHP	GPS CI-2	PTHP UNITS	390	3)	0.01	160 MILLION	INSIDE UNIT	24	12	1), 2), 3)	
APU-DSS	GPS CI-2	DSS UNITS	840	3)	0.01	160 MILLION	INSIDE UNIT	24	12	1), 2), 3)	

REMARKS:

1) INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. POWER SHALL BE PROVIDED BY UNIT ON WHICH IT IS INSTALLED. PROVIDE TRANSFORMER AS NECESSARY. 3) OUTSIDE AIR FOR SPACE PROVIDED 100% BY ERV-1.

	ELECTRIC UNIT HEATER SCHEDULE												
EQUIPMENT NO.	MANUFACTURER/ MODEL NO.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		TRICAL VOLTS/PH./HZ.	MOUNTING	WGT (LBS)	REMARKS						
EUH-1	MARKEL P3P5105CA1N	5	1	60	400	INTEGRAL	480/3/60	SUSPENDED	30	1)			
EUH-2	MARKEL P3P5105CA1N	5	1	60	400	INTEGRAL	480/3/60	SUSPENDED	30	1)			

REMARKS:
1) PROVIDE WITH UNIT MOUNTED THERMOSTAT, CONTROL TRANSFORMER, AND DISCONNECT SWITCH.

	PACK	(AGE	ED ⁻	THE	RU-W	/ALL	HE	AT	Pl	JMF	SCH	ED	UL	E		
EQUIPMENT NO.	MANUFACTURER/ MODEL NO.	CFM (HIGH				CAP. (MBH)	MDII		TING	CTAOEC	DICCONNICOT		RICAL	VOLTC /DU /UZ	EER	REMARKS
		`	(FIXED)		TOTAL	SENSIBLE	МВН	AMB. (°F)	KW	STAGES	DISCONNECT	MCA	МОСР	VOLTS/PH./HZ.		
PTHP	AMANA PTH154G50	390	4)		14.6		14.6	47	5.0	1	2)	23.9	25	265/1/60	9.7	1), 2), 3), 4)

Engineering & Design Consultants 2111 Parkway Office Circle, Suite 125 Birmingham, AL 35244 (205) 733-6912 FAX: (205) 733-6913

Job No.: 22282 File: 22282D01

REMARKS:

1) ROUTE CONDENSATE TO GRADE. Ý) PROVIDE WITH MANUFACTURER'S HARD-WIRE KIT AND DISCONNECT SWITCH (PROVIDED BY DIV. 15, INSTALLED BY DIV. 16).

3) PROVIDE WITH BIPOLAR IONIZATION. SEE SCHEDULE, THIS SHEET.
4) CLOSE OFF AND SEAL WEATHERTIGHT OUTSIDE AIR. OUTSIDE AIR TO SPACE PROVIDED BY ERV—1.

				IN	DOC	OR H	IEAT	PU	MP	UN	IIT S	SCHEE	DULE						
EQUIPMENT NO.	MANUFACTURER/ MODEL NO.	CFM	OA CFM	E.S.P. (IN. W.C.)	H.P.	AN DRIVE	COOLING COIL		STAGES	MCA	MOCP	ELECTRICAL DISCONNECT	VOLTS/PH./HZ.	VIBRAT	DEFL. (IN.)	LATION BASE	MOUNTING	WEIGHT (LBS.)	REMARKS
IHP-1	CARRIER FV4CNB006L00	1,995	400	0.50	3/4	DIRECT	CC-1	20	1	34.3	35	BY DIV. 16	460/3/60	1	0.50	Α	HORIZONTAL	225	1)

REMARKS:

1) PROVIDE UNIT WITH APR RAWAL DEVICE FOR CAPACITY MODULATION.

			OUT	DOO	RH	EAT	PUI	MP	SCHE	DULE						
EQUIPMENT NO.	MANUFACTURER/ MODEL NO.	SERVICE	COOLING NOMINAL (TONS)	CAPACITY AMBIENT TEMP. (F)	HEATING MBH	CAPACITY AMBIENT TEMP. (F)	UNIT MCA	UNIT MOCP	ELECTRICAL DISCONNECT	VOLTS/PH./HZ.		DEFL.	LATION BASE	SEER	EER	REMARKS
OHP-1	CARRIER 25HCE460AP06	IHP-1	5	95	54.6	47	10.5	15	BY DIV. 16	460/3/60	1	0.5	А	14	11.5	1)

REMARKS:

1) PROVIDE WITH OUTDOOR THERMOSTAT. SET THERMOSTAT AT 35°F (ADJUSTABLE)

			C	OIL S	SCH	IED	ULE					
EQUIPMENT	TYPE	ROWS	MAXIMUM	MAXIMUM				AIR			DX	REMARKS
NO.		(MIN.)	FINS PER INCH	FACE VEL. (FPM)	CFM	EDB (F)	EWB (°F)	LDB (°F)	LWB (°F)	PRESSURE DROP (IN. W.C.)	REFRIG. TYPE	
CC-1	DIRECT EXPANSION				1,970	80	67	59.0	58.5		R-410A	1)

REMARKS:
1) FURNISHED WITH MECHANICAL EQUIPMENT

		DUCT	LES	SIN	1DOC	R UN	IIT SC	HEDUL	E.					
EQUIPMENT	MANUFACTURER/	SERVICE	CFM	OA	COOLING	HEATING	MOUNTING		ELEC	TRICAL				REMARKS
NO.	MODEL NO.			CFM	CAPACITY (MBH)	CAPACITY (MBH)		DISCONNECT	MOTOR STARTER	MCA	MOCP	VOLTS/PH./HZ.	(LBS)	
DSS-1	CARRIER 40MAHBQ30XA3	CLASSROOM A111	840	4)	30.0	30.0	WALL	BY DIV. 16	INTEGRAL			208/1/60	50	1), 2), 3), 4)
DSS-2	CARRIER 40MAHBQ30XA3	CLASSROOM A112	840	4)	30.0	30.0	WALL	BY DIV. 16	INTEGRAL			208/1/60	50	1), 2), 3), 4)
DSS-3	CARRIER 40MAHBQ30XA3	CLASSROOM A113	840	4)	30.0	30.0	WALL	BY DIV. 16	INTEGRAL			208/1/60	50	1), 2), 3), 4)

REMARKS:

1) PROVIDE WIRED THERMOSTAT.
2) POWER FOR THIS UNIT IS PROVIDED FROM OUTDOOR UNIT.
3) PROVIDE WITH BIPOLAR IONIZATION. SEE SCHEDULE, THIS SHEET.

4) OUTSIDE AIR TO SPACE PROVIDED BY ERV-1.

		DUCTL	ESS	OUT	DOOR	UN	IIT S	SCHED	UL	E					
EQUIPMENT	MANUFACTURER/	SERVICE	NOMINAL	NOMINAL		ELECT	TRICAL		WEIGHT	VIBRA	TION ISO	LATION	SEER	EER	REMARKS
NO.	MODEL NO.		COOLING CAPACITY (TONS)	HEATING CAPACITY (MBH)	DISCONNECT	MCA	МОСР	VOLTS/PH./HZ.	(LBS)	TYPE	DEFL. (IN.)	BASE			
DCU-1	CARRIER 38MARBQ30AA3	DSS-1	2.5	30	BY DIV. 16	23	30	208/1/60	175				20	11.5	1), 2)
DCU-2	CARRIER 38MARBQ30AA3	DSS-2	2.5	30	BY DIV. 16	23	30	208/1/60	175				20	11.5	1), 2)
DCU-3	CARRIER 38MARBQ30AA3	DSS-3	2.5	30	BY DIV. 16	23	30	208/1/60	175				20	11.5	1), 2)

REMARKS: 1) POWER FOR INDOOR UNIT IS PROVIDED FROM THIS UNIT. 2) COORDINATE EXACT LOCATION WITH ALL OTHER TRADES.

				PC	DWI	ΞR	VENTIL	ATOR	SC	HEDUI	LE						
EQUIPMENT	MANUFACTURER/	SERVICE	CFM	E.S.P.	RPM	MAX.		ELECTRIC	AL .		LOCATION	TYPE	DRIVE	VIBRA1	TION ISOLATION		REMARKS
NO.	MODEL NO.			(IN. W.C.)		SONES	DISCONNECT	MOTOR STARTER	HP	MOTOR VOLTS/PH./HZ.				TYPE	DEFL. BASI	(LBS.)	
EF-1	COOK 120SQN17D	RESTROOM EXHAUST	470	1.0	1714	12.5	BY DIV. 16	INTEGRAL	1/20	208/1/60	INLINE	CENTRIFUGAL	DIRECT			90	1), 3), 4), 5)
VF-1	COOK 150SQN17D	SHELTER VENTILATION	2400	1.0	1612	18.2	BY DIV. 16	INTEGRAL	1	208/1/60	INLINE	CENTRIFUGAL	DIRECT	3	.75 A	135	1), 3), 4), 5)

REMARKS:
1) PROVIDE MANUFACTURER'S FAN SPEED CONTROLLER AND BACKDRAFT DAMPER. INTERLOCK WITH LOCAL LIGHTING CONTROLS.
INTERLOCK WITH MUSHROOM PUSH-BUTTON SWITCH, DOMO CD16 PER.

PROVIDE ECM MOTOR. 5) PROVIDE FAN ON SHELTER BACKUP POWER.

								ENE	RG	Y RE	ECO	VE	RY \	/ENT	TLA	TOF	R SCH	HEDUI	_E									
EQUIPMENT	MANUFACTURER/	:	SUPPLY		E	XHAUST		F	REGEN F	AN				RFORMANCE						ECTRICAL						.ATION		REMARKS
NO.	MODEL NO.	CFM	HP	ESP (IN. W.C.)	CFM	HP	ESP (IN. W.C.)	CFM	HP	ESP (IN. W.C.)	O.A. EDB (°F)E'			L SUPPLY			DISCONNECT	MOTOR STARTER	PREHEAT KW	REHEAT KW	MCA	MOCP	VOLTS/PH./HZ.	TYPE	DEFL. (IN.)	BASE	(LBS)	
ERV-1	NOVELAIRE 4000DESDX-ERV	1710	3.0	1.5	1710	1.5	1.5	2238	1.5	0.0	83.0	79.0	74.9	57.5	70.0	54.8	BY DIV. 16	BY DIV. 15	N/A	30	73.4	80	480/3/60	1	0.50	Α	3500	1), 2), 3), 4),

REMARKS:

1) SINGLE POINT POWER CONNECTION

2) PROVIDE WITH PREWIRED FAN SPEED CONTROLLERS.

3) BASED ON ROOM EXHAUST CONDITIONS: 72.0/60.0°F (DB/WB).
4) BASED ON A 5 TON DIGITAL COMPRESSOR WITH COOLING COIL LAT CONDITIONS: 51.1/51.1°F (DB/WB).
5) UNIT PERFORMANCE DATA: TOTAL COOLING EFFECT: 8.3 TONS, 76.1 LB/HR, 7.3 kW; FULL—LOAD MRE OF 10.4.

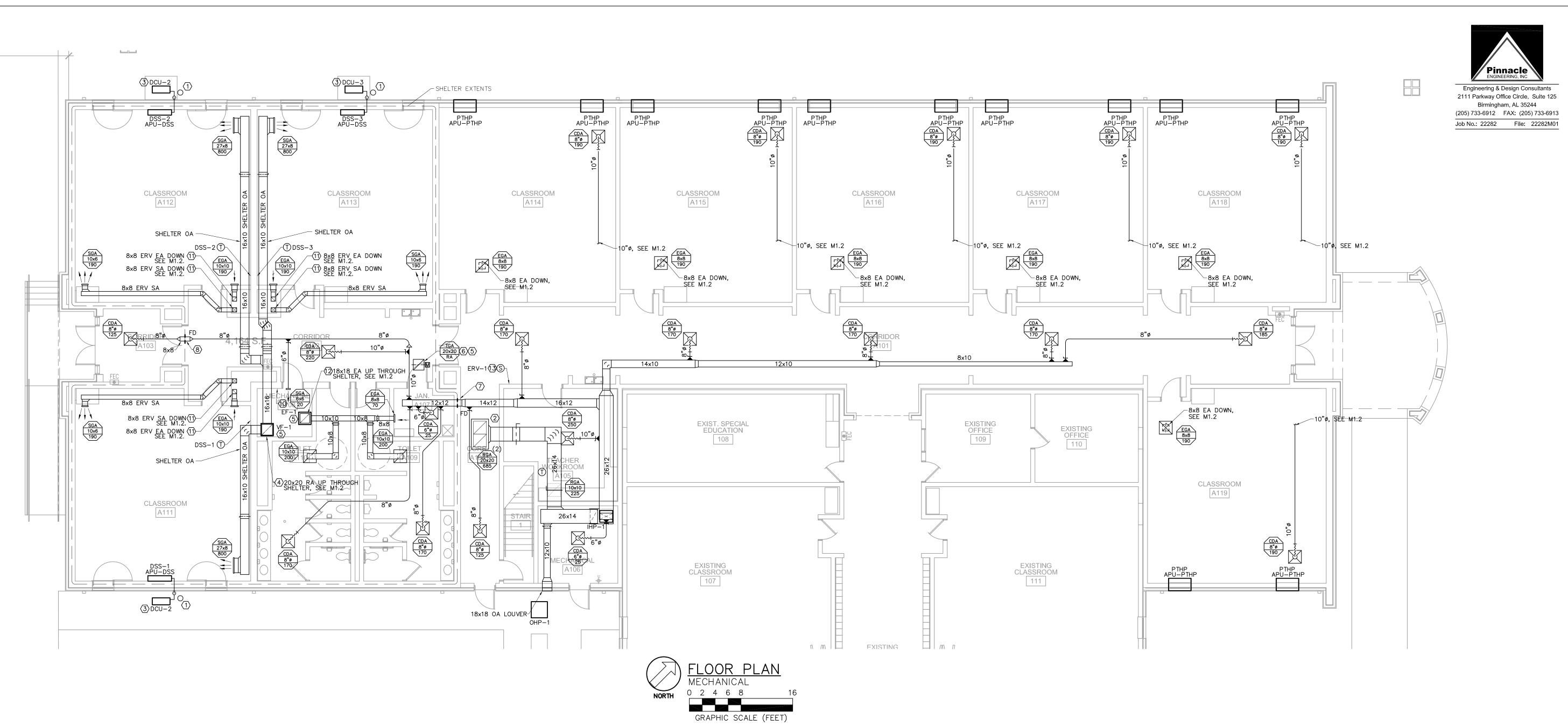
LATHAN = BRYANT = CALMA

SHEET TITLE: MECHANICAL LEGEND, ABBREVIATIONS, SCHEDULES AND DETAILS

PROJ. MGR.: JMH ZBL/CRA DATE: 1/20/23 REVISIONS

JOB NO. **22-20**

SHEET NO:



1 VERIFY EXISTING CONDITIONS IN FIELD PRIOR TO BEGINNING WORK.

GENERAL NOTES:

2 SPACE ABOVE CEILING IS LIMITED. CAREFUL COORDINATION WITH LIGHTING, ELECTRICAL, PLUMBING, STRUCTURAL, AND ARCHITECTURAL WORK IS CRITICAL TO DUCTWORK INSTALLATION.

3 PROVIDE NECESSARY OFFSETS IN PIPING, ELECTRICAL CONDUIT, AND DUCTWORK AS REQUIRED TO ACCOMMODATE NEW WORK. DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL DETAILS NOR CHANGES IN DUCTWORK ELEVATIONS NECESSARY FOR COMPLETE INSTALLATION.

(4) COORDINATE CEILING AIR DEVICE LOCATIONS WITH LIGHTING PLAN AND ARCHITECT'S REFLECTED CEILING PLAN.

(5) DUCTWORK SHALL BE RUN TIGHT TO STRUCTURE. AVOID CROSSING OVER LIGHTS AND OTHER DUCTS DUE TO TIGHT CLEARANCES.

6 COORDINATE EXACT SIZE, LOCATION, AND COLOR OF WALL MOUNTED LOUVERS WITH ARCHITECT PRIOR TO ORDERING.

7 MOUNT TEMPERATURE CONTROLS 48" ABOVE FINISHED FLOOR. COORDINATE EXACT LOCATION WITH ARCHITECT.

8 SPILL CONDENSATE FROM IHP INTO NEAREST FLOOR DRAIN.

SPILL CONDENSATE FROM PTHP TO GRADE

(9) SPILL CONDENSATE FROM PTHP TO GRADE.

10 BALANCE CEILING AIR DEVICES TO VALUES SHOWN ON THIS DRAWING.

PROVIDE ACCESS DOOR IN DUCT OR PLENUM FOR STORM LOUVER LABEL INSPECTION BY STATE INSPECTOR. INSTALL STORM LOUVER WITH LABEL VIEWABLE FROM ACCESS DOOR.

DRAWING NOTES:

LOUVER/DAMPER.

PROVIDE CONDENSATE DISPOSAL WELL. TERMINATE CONDENSATE LINE TO WELL. REFER TO DETAIL.

2 PROVIDE 26" DEEP PLENUM ON BACK SIDE OF EXHAUST GRILLE AND CONNECT 18x16 DUCT TO TOP OF PLENUM WITHIN CHASE.

3 EACH REFRIGERANT LINE AND THE CONDENSATE LINE PENETRATES SHELTER WALL SEPARATELY. PENETRATIONS TO BE LESS THAN 2" IN DIAMETER. PENETRATIONS FROM A SINGLE UNIT TO BE MINIMUM 4" ON CENTER. ONLY ONE PENETRATION PER BLOCK IN SHELTER WALL.

(4) PROVIDE 20x20 DUCT UP THROUGH SHELTER CAP. TERMINATE TO ROOF CAP, COOK MODEL PR20. AT SHELTER PENETRATION, PROVIDE 20x20 STORM RATED LOUVER AND FIRE DAMPER. ANCHOR TO SHELTER IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. STORM LOUVER SHALL BE RUSKIN MODEL XP500 OR EQUAL.

(5) PROVIDE ACCESS DOOR IN DUCT WITHIN STORAGE-A108 FOR LOUVER LABEL INSPECTION BY STATE INSPECTOR. INSTALL LOUVER WITH LABEL VIEWABLE FROM ACCESS DOOR.

(6) PROVIDE 20x20 EA DUCT UP THROUGH SHELTER CAP. TERMINATE TO ROOF CAP, COOK MODEL PR20. AT SHELTER PENETRATION, PROVIDE 20x20 STORM RATED LOUVER AND FIRE DAMPER. ANCHOR TO SHELTER IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. STORM LOUVER SHALL BE RUSKIN MODEL XP500 OR EQUAL.

PROVIDE 12x12 DUCT THROUGH SHELTER WALL. AT SHELTER PENETRATION, PROVIDE 12x12 STORM RATED LOUVER AND FIRE DAMPER. ANCHOR TO SHELTER IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

(8) TRANSITION TO 12x12 DUCT THROUGH SHELTER WALL. AT SHELTER PENETRATION, PROVIDE 12x12 STORM RATED LOUVER AND FIRE DAMPER. ANCHOR TO SHELTER IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. STORM LOUVER SHALL BE RUSKIN MODEL XP500 OR EQUAL.

(9) PROVIDE 20x20 EA DUCT UP THROUGH SHELTER CAP. TERMINATE TO ROOF CAP, COOK MODEL PR20. AT SHELTER PENETRATION, PROVIDE 20x20 STORM RATED LOUVER AND FIRE DAMPER. ANCHOR TO SHELTER IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. STORM LOUVER SHALL BE RUSKIN MODEL XP500 OR EQUAL.

PROVIDE MUSHROOM PUSH-BUTTON SWITCH FOR VF-1 CONTROL. REFER TO CONTROL DIAGRAM, DETAIL 4 SHEET M2.2.

(1) AT SHELTER PENETRATION, TRANSITION TO 12x12 STORM RATED LOUVER AND FIRE DAMPER. ANCHOR TO SHELTER IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. STORM LOUVER SHALL BE RUSKIN MODEL XP500 OR EQUAL. TRANSITION BACK TO 8x8 AFTER LOUVER/DAMPER.

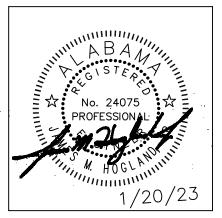
PROVIDE 18x18 EXHAUST DUCT FROM EF-1 TO 18x18 STORM RATED LOUVER AND FIRE DAMPER AT SHELTER PENETRATION. ANCHOR TO SHELTER IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. STORM LOUVER SHALL BE RUSKIN MODEL XP500 OR EQUAL. TRANSITION TO 10x10 AFTER

(3) INSTALL TEMPERATURE AND HUMIDITY SENSOR SUPPLIED BY THE ERV MANUFACTURER. PROVIDE BALANCE OF CONTROL WIRING AS NECESSARY.



CLASSROOM ADDITION TO

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78975 HIGHWAY 77, LINCOLN, ALABAMA 35096
TALLADEGA COUNTY BOARD OF EDUCATION



SHEET TITLE:
MECHANICAL FLOOR PLAN

PROJ. MGR.: JMH
DRAWN: ZBL/CRA
DATE: 1/20/23
REVISIONS

JOB NO. **22-20**

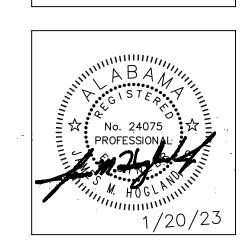
SHEET NO:

M1.1

0 1" 2







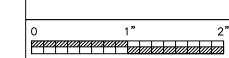
SHEET TITLE: MECHANICAL ATTIC FLOOR PLAN

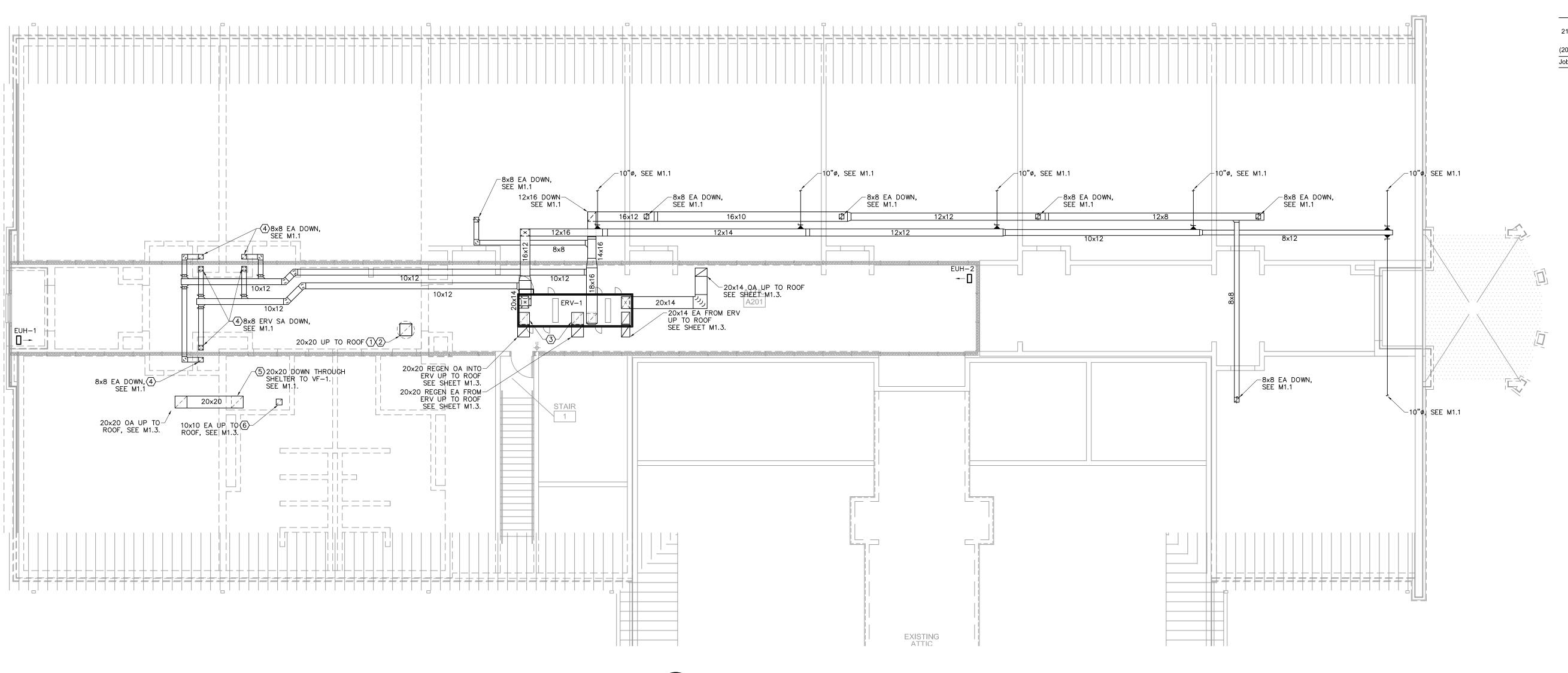
PROJ. MGR.: JMH DRAWN: ZBL/CRA

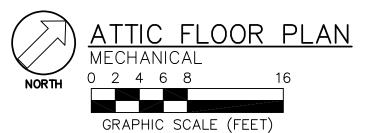
1/20/23 REVISIONS

JOB NO. **22-20**

SHEET NO:







NEW WORK LEGEND - NEW WORK

GENERAL NOTES:

(1) VERIFY EXISTING CONDITIONS IN FIELD PRIOR TO BEGINNING WORK.

2 SPACE ABOVE CEILING IS LIMITED. CAREFUL COORDINATION WITH LIGHTING, ELECTRICAL, PLUMBING, STRUCTURAL, AND ARCHITECTURAL WORK IS CRITICAL TO DUCTWORK INSTALLATION.

PROVIDE NECESSARY OFFSETS IN PIPING, ELECTRICAL CONDUIT, AND DUCTWORK AS REQUIRED TO ACCOMMODATE NEW WORK. DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL DETAILS NOR CHANGES IN DUCTWORK ELEVATIONS NECESSARY FOR COMPLETE INSTALLATION.

(4) COORDINATE CEILING AIR DEVICE LOCATIONS WITH LIGHTING PLAN AND ARCHITECT'S REFLECTED CEILING PLAN.

(5) DUCTWORK SHALL BE RUN TIGHT TO STRUCTURE. AVOID CROSSING OVER LIGHTS AND OTHER DUCTS DUE TO TIGHT CLEARANCES.

6 COORDINATE EXACT SIZE, LOCATION, AND COLOR OF WALL MOUNTED LOUVERS WITH ARCHITECT PRIOR TO ORDERING.

(8) SPILL CONDENSATE FROM ERV INTO NEAREST FLOOR DRAIN.

9 PROVIDE ACCESS DOOR IN DUCT OR PLENUM FOR STORM LOUVER LABEL INSPECTION BY STATE INSPECTOR. INSTALL STORM LOUVER WITH LABEL VIEWABLE FROM ACCESS DOOR.

DRAWING NOTES:

1) PROVIDE ACCESS DOOR IN DUCT WITHIN STORAGE-A108 FOR LOUVER LABEL INSPECTION BY STATE INSPECTOR. INSTALL LOUVER WITH LABEL VIEWABLE FROM ACCESS DOOR.

STORM LOUVER SHALL BE RUSKIN MODEL XP500 OR EQUAL.

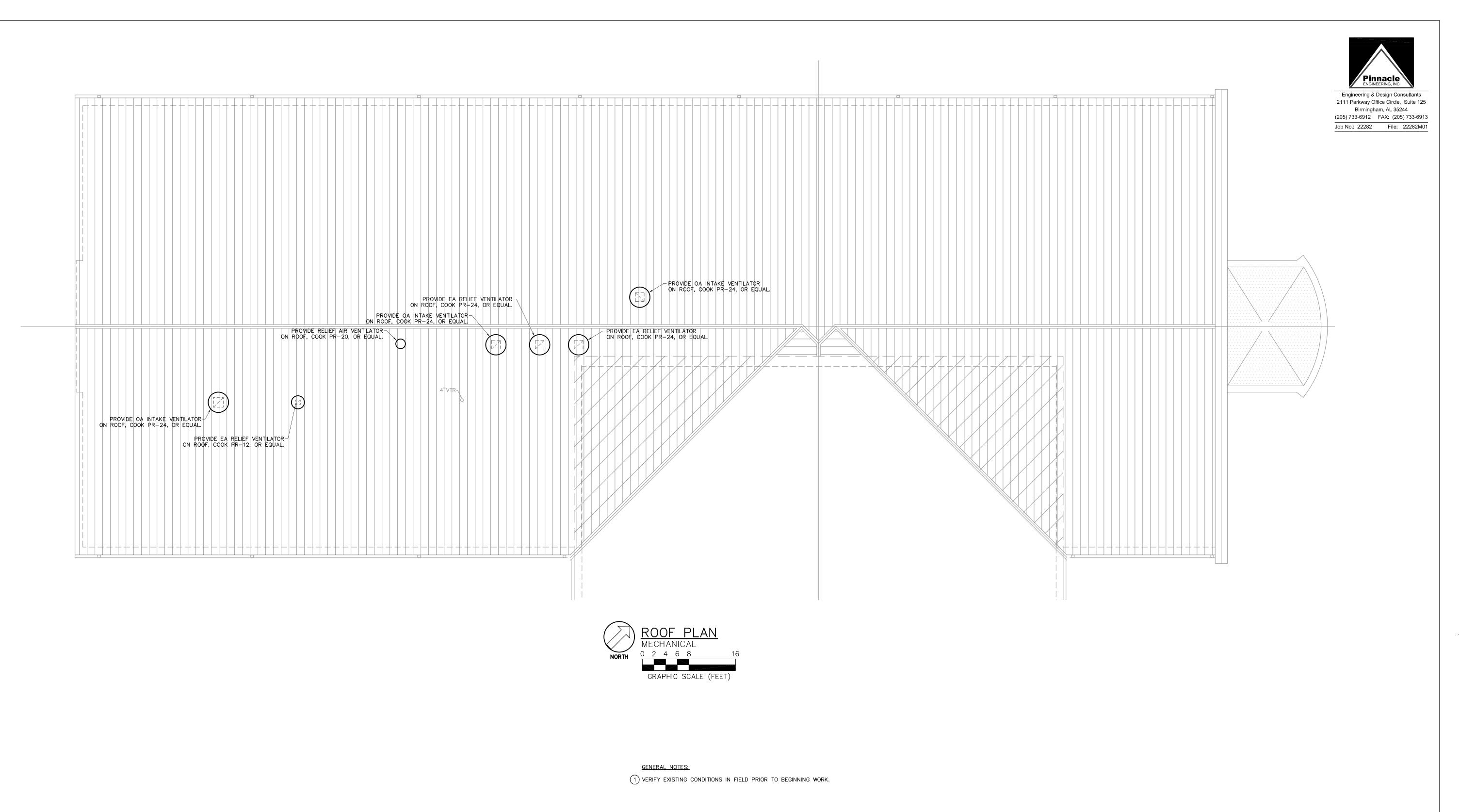
2 PROVIDE 20x20 RELIEF DUCT UP THROUGH SHELTER CAP. TERMINATE TO ROOF CAP, COOK MODEL PR20. AT SHELTER PENETRATION, PROVIDE 20x20 STORM RATED LOUVER AND FIRE DAMPER. ANCHOR TO SHELTER IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

(3) PROVIDE 20x20 REGEN AIR IN/OUT DUCT UP INTO ATTIC AND OFFSET AS NECESSARY TO ROOF VENTILATOR. SEE M1.3.

 $\overline{\langle 4 \rangle}$ AT SHELTER PENETRATION, TRANSITION TO 12x12 STORM RATED LOUVER AND FIRE DAMPER. ANCHOR TO SHELTER IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. STORM LOUVER SHALL BE RUSKIN MODEL XP500 OR EQUAL. TRANSITION BACK TO 8x8 AFTER LOUVER/DAMPER.

(5) PROVIDE 20x20 DUCT THROUGH SHELTER CAP. AT SHELTER PENETRATION, PROVIDE 20x20 STORM RATED LOUVER AND FIRE DAMPER. ANCHOR TO SHELTER IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. STORM LOUVER SHALL BE RUSKIN MODEL XP500 OR EQUAL.

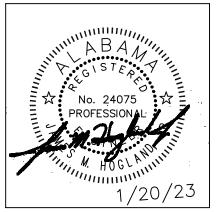
(6) TRANSITION FROM 18x18 STORM RATED LOUVER AND FIRE DAMPER AT SHELTER PENETRATION TO 10x10 EA DUCT.





CLASSROOM ADDITION TO

LINCOLN HIGH SCHOOL
78975 HIGHWAY 77, LINCOLN, ALABAMA 35096
TALLADEGA COUNTY BOARD OF EDUCATION



SHEET TITLE:
MECHANICAL ROOF PLAN

PROJ. MGR.:	JMH
DRAWN:	ZBL/CRA
DATE:	1/20/23
REVISIONS	

JOB NO. **22-20**

SHEET NO:

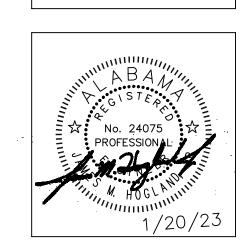
M1.3

0 1" 2'





CLASSRO



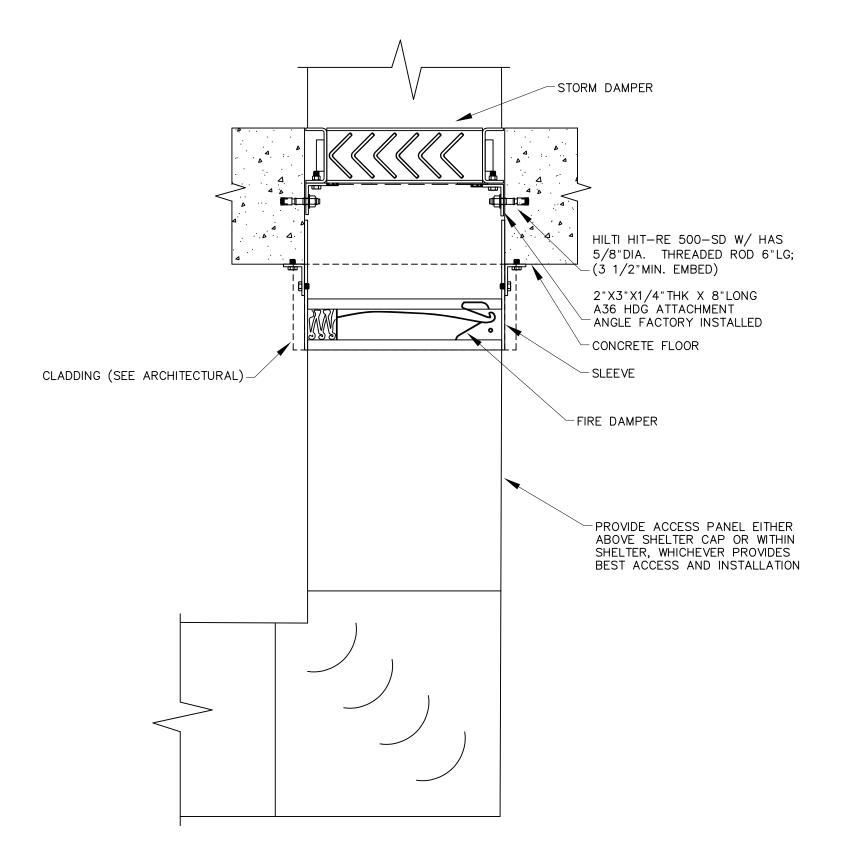
SHEET TITLE: MECHANICAL DETAILS

PROJ. MGR.: JMH ZBL/CRA DRAWN: DATE: 1/20/23

REVISIONS

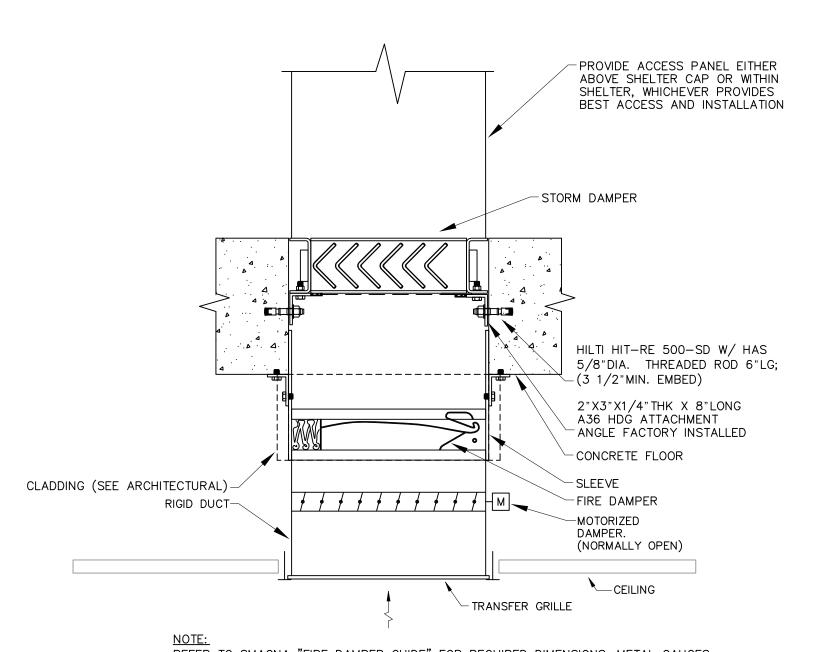
JOB NO. **22-20**

SHEET NO:



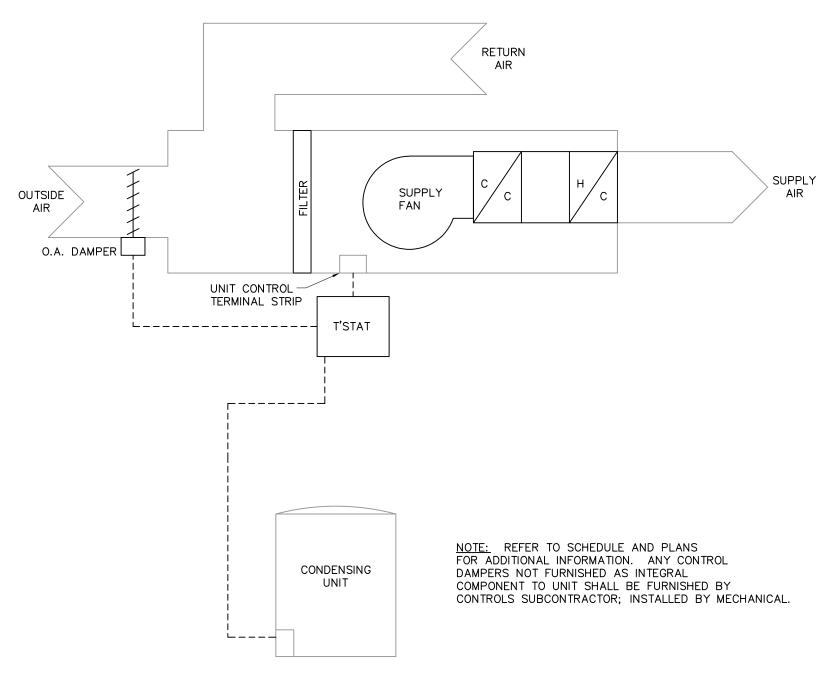
REFER TO SMACNA "FIRE DAMPER GUIDE" FOR REQUIRED DIMENSIONS, METAL GAUGES, CLEARANCES, ACCEPTABLE DUCT JOINTS, AND OTHER SPECIFICATIONS. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

FIRE DAMPER/STORM LOUVER INSTALLATION DETAIL NO SCALE

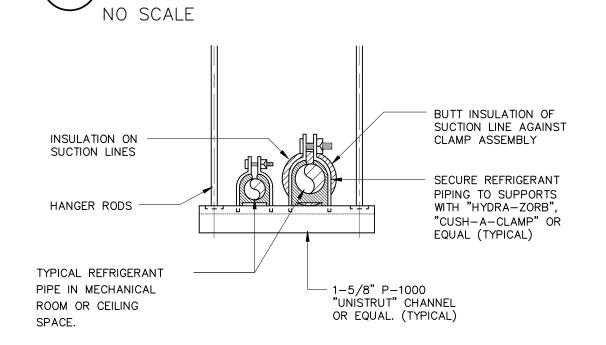


REFER TO SMACNA "FIRE DAMPER GUIDE" FOR REQUIRED DIMENSIONS, METAL GAUGES, CLEARANCES, ACCEPTABLE DUCT JOINTS, AND OTHER SPECIFICATIONS. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

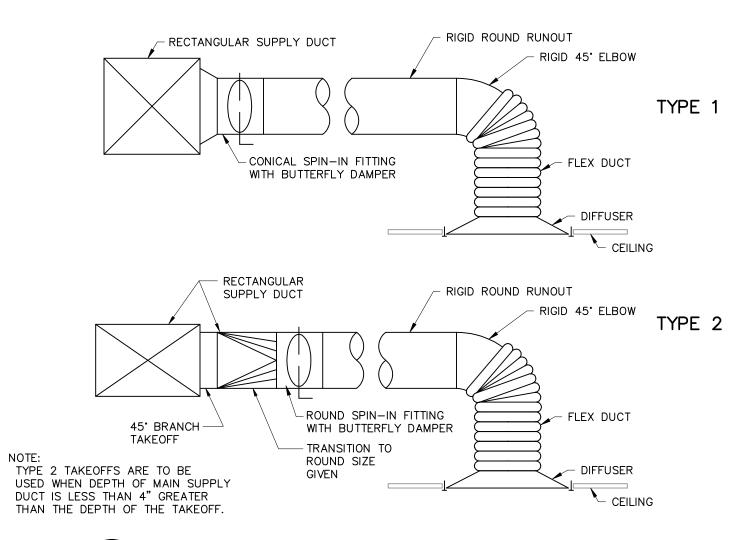
8 FIRE DAMPER/STORM LOUVER INSTALLATION DETAIL M2.1 NO SCALE



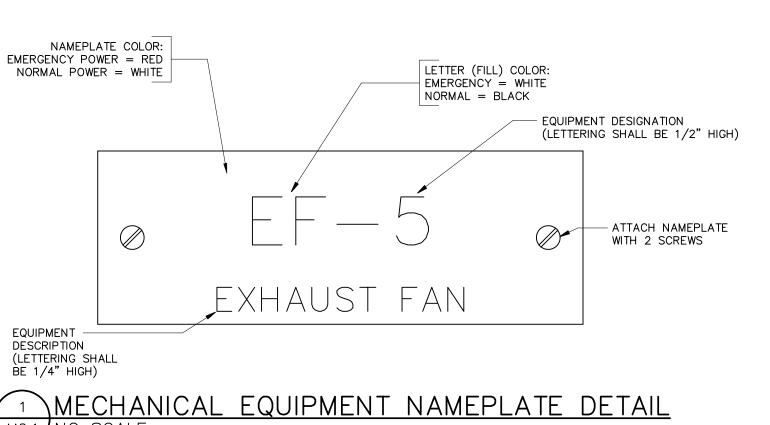
HVAC CONTROL DIAGRAM TYPICAL



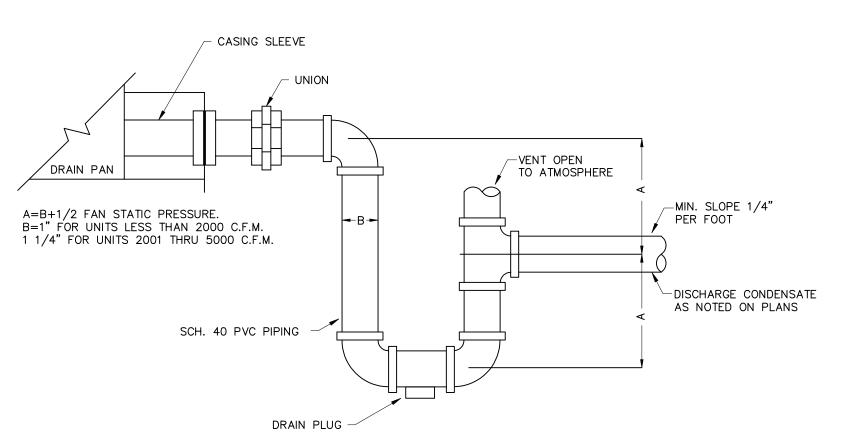
5 REFRIGERANT PIPING SUPPORT DETAIL TYPICAL FOR PIPING SUSPENDED FROM STRUCTURE



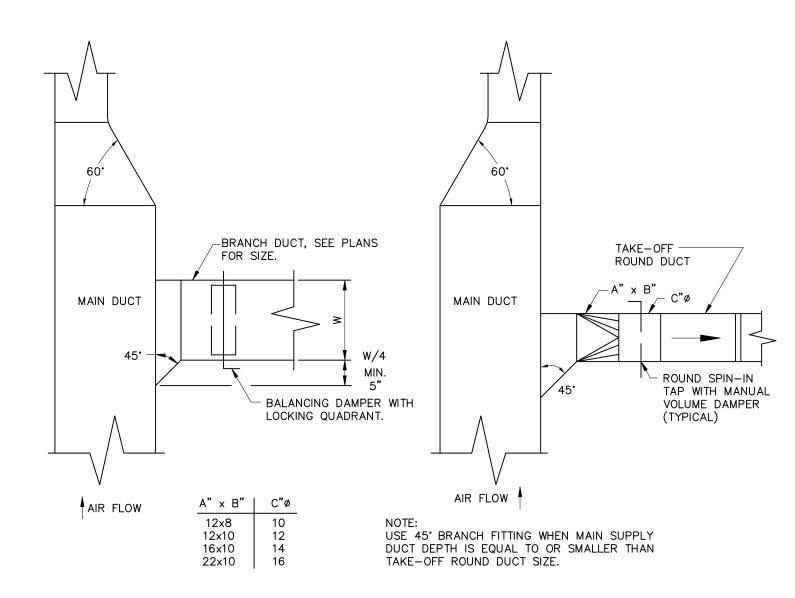
6 TYPICAL DIFFUSER RUN-OUT DETAIL M2.1/NO SCALE



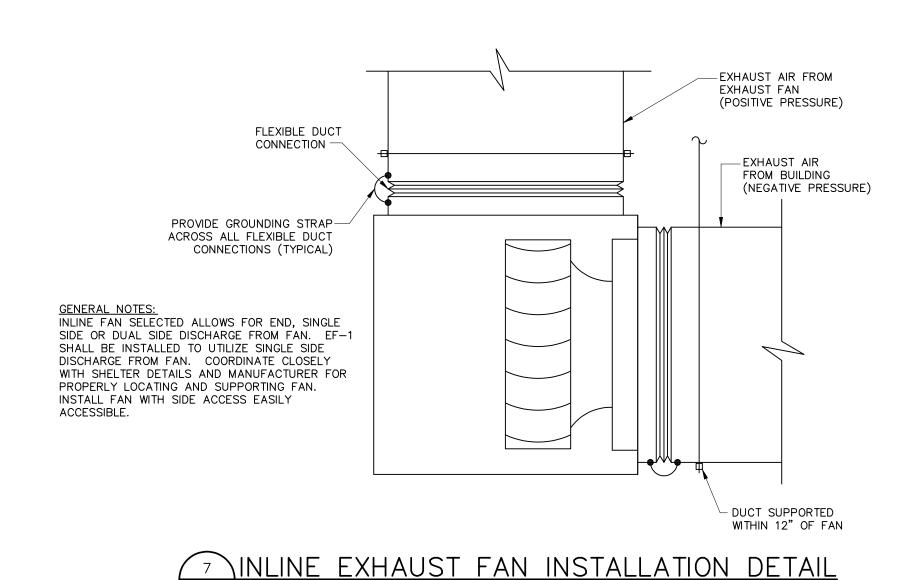
M2.1/NO SCALE

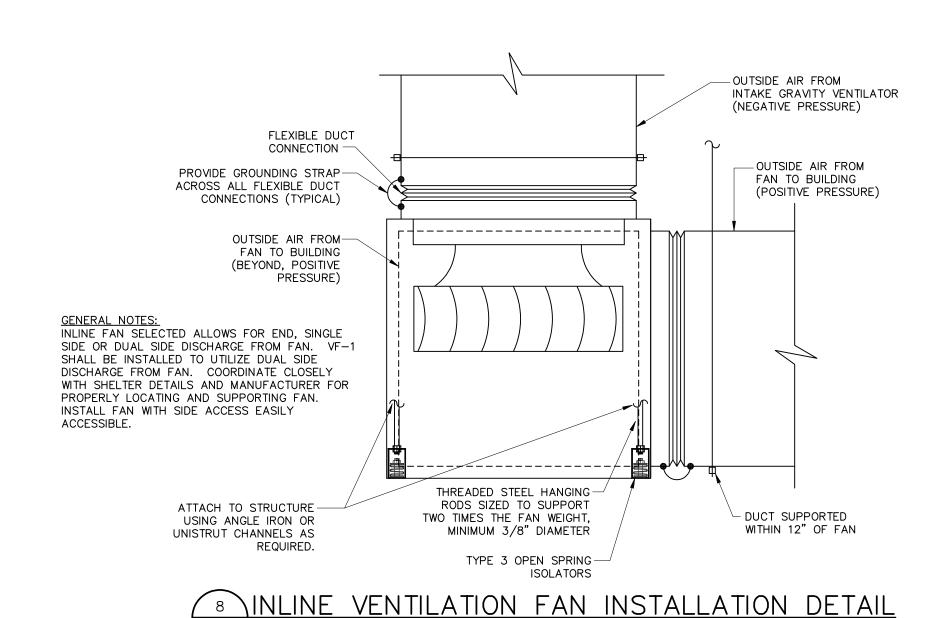


CONDENSATE DRAIN TRAP DETAIL M2.1 NO SCALE

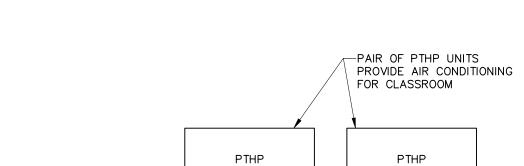


TYPICAL DUCT TAKEOFF DETAIL



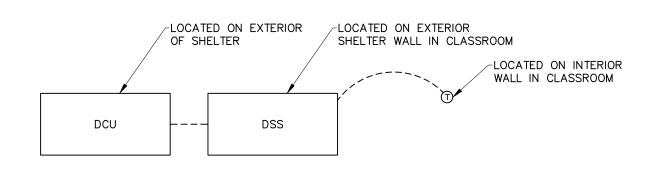


M2.2 NO SCALE



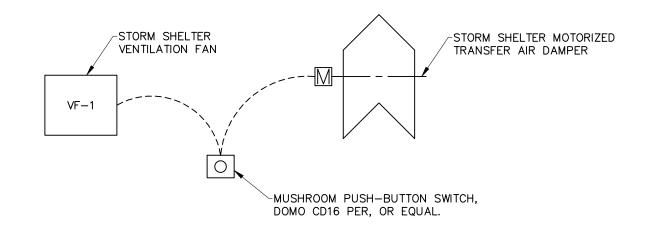
1) INDIVIDUAL PTHP SHALL BE PROVIDED WITH ON-BOARD FACTORY-INSTALLED THERMOSTAT AND CONTROLLER. NO REMOTE THERMOSTATS REQUIRED.

9 PTHP CLASSROOM CONTROL DIAGRAM
M2.2 NO SCALE



10 DSS CLASSROOM CONTROL DIAGRAM

M2.2 NO SCALE

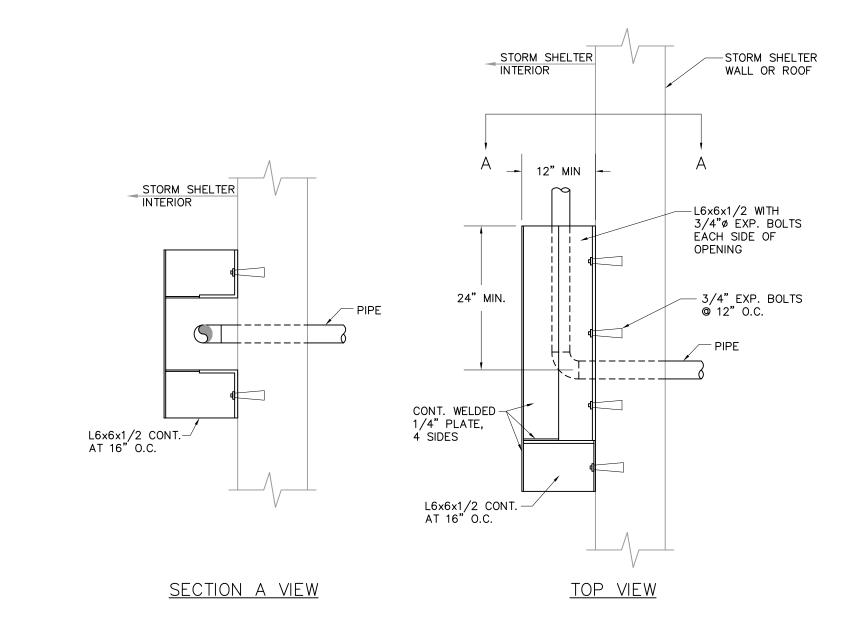


NOTES:

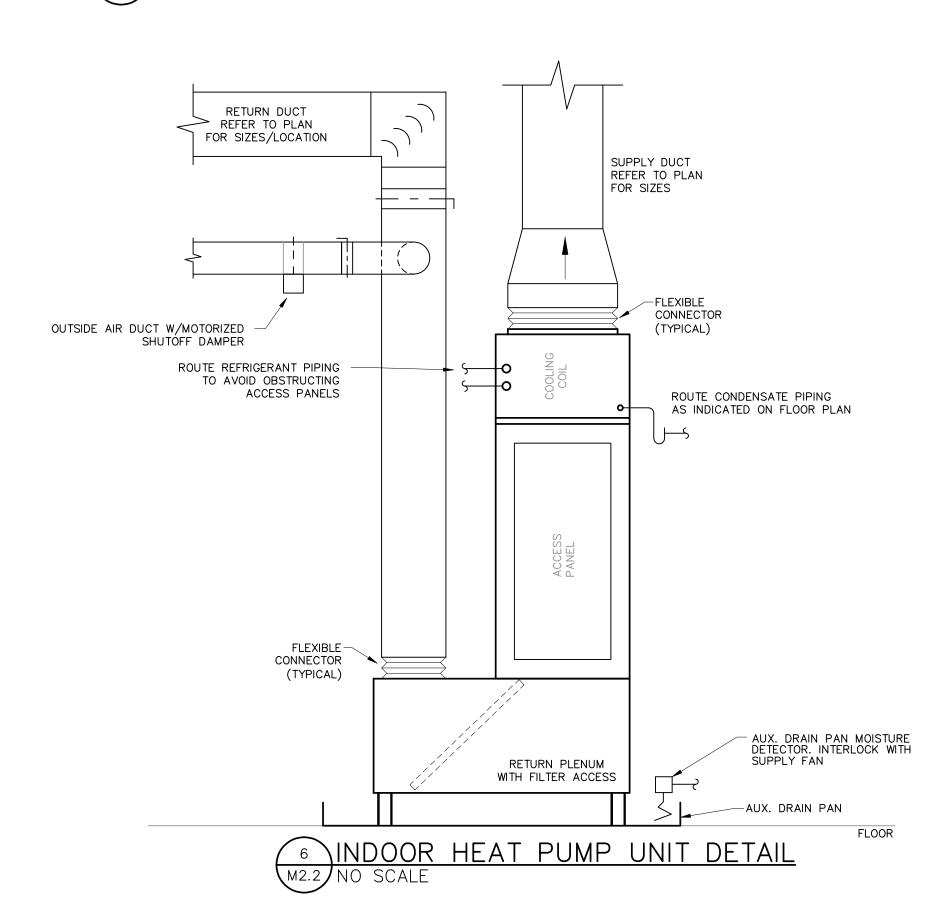
1) PROVIDE PERMANENT SIGN ABOVE MUSHROOM PUSH—BUTTON SWITCH. SIGN SHALL READ AS FOLLOWS: "WHEN SHELTER IS IN USE, TWIST AND RELEASE BUTTON TO ENGAGE SHELTER VENTILATION SYSTEM. WHEN SHLETER USE HAS ENDED, PUSH BUTTON TO DIS—ENGAGE SYSTEM."

2) PROVIDE ANY NECESSARY TRANSFORMER(S) AND/OR CONTACTOR(S) TO START VF—1 AND OPEN THE RELIEF AIR DAMPER, UPON THE TWIST AND RELEASE OF THE MUSHROOM PUSH—BUTTON SWITCH.

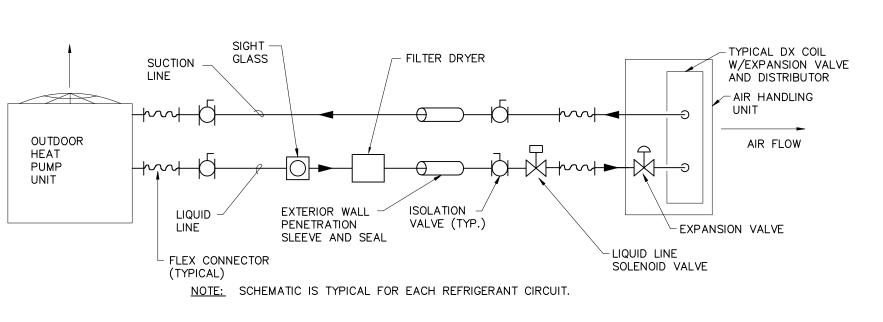
SHELTER CONTROL DIAGRAM M2.2 NO SCALE



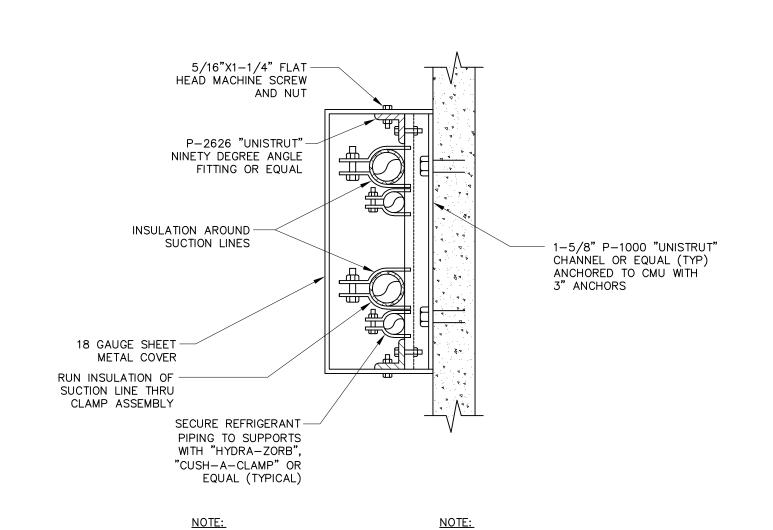
STORM SHELTER PENETRATION PROTECXTION DETAIL NO SCALE







1 REFRIGERANT PIPING DETAIL M2.2 NO SCALE



EXTERIOR REFRIGERANT PIPE SUPPORT DETAIL

NO SCALE
TYPICAL FOR WALL-MOUNTED REFRIGERANT,

RUN STEEL COVER CONTINUOUS FROM CONDENSING UNITS TO RISERS

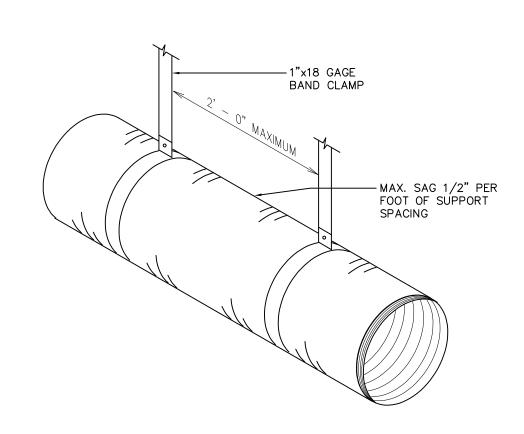
OR PENETRATIONS AT BUILDING WALL.

PAINT COVER

TO MATCH BLDG. FACE

BRICK COLOR (TYP)

CONCRETE PAD-MOUNTED SIMILAR



FLEXIBLE DUCT SUPPORT DETAIL

M2.2 NO SCALE

LATHAN ARCHITECTS LATHAN - BRYANT - CALMA

LINC

SHEET TITLE:

MECHANICAL DETAILS AND

CONTROL DIAGRAMS

PROJ. MGR.: JMH
DRAWN: ZBL/CRA
DATE: 1/20/23
REVISIONS

JOВ NO. **22-20**

SHEET NO:

M2 2

0 1" 2





Table 6.1 cfm/ft2 Ra OA CFM per Zone (CFM) with Ventilation Occupancy Occupant Zone Floor Area (square ft) Ez correction Effectiveness (Vbz/Ez) 0.12 140 50 0.8 F. (V. + V.) **OSHA, NIOSH & WHO most conservative values us Indoor Air Flow Type
Indoor Contaminant Steady State (lb/ft3) Steady State (lb/ft3) Is Steady State Level Filtration Using the VRP* Generation Using the IAQ Method Acceptable at Reduced aximum Threshold Value Rate Generated By People (Reduced OA) (Prescribed OA) OA Levels? & From Outdoors (PPM) CO2 Steady State (PPM) 1.68E-08 9.85E-07 4.77E-05 3.05E-08 0.00E+00 0.00E+00 6.87E-08 1.24E-08 0.00E+00 6.87E-08 1.48E-08 0.00E+00 0.00E+00 1.69E-07 *Carbon dioxide has been provided for reference only for gathering demand control Building materials and furnishings assumed to have no VOCs and off-gassing is complete All yellow shaded boxes require user input or review ventilation (DCV) setpoints. The National Research Council was commissioned by the US Navy to prove C02 is not a contaminant of concern when using air purification to control the other contaminants of concern, as found on submarines.

> 1 IAQ METHOD CALCULATION M2.3 DSS (TYPICAL)

Zone Tag	Facility Type	Zone Use	Zone Floor Area (square ft) Az	Zone Max Occupancy Pz	Table 6.1 OA CFM per Occupant Rp	Table 6.1 cfm/ft2 Ra	Pz * Rp Pz * Rp	Az * Ra Az * Ra	Table 6.2 Ventilation Effectiveness Ez	Outdoor Air to Zone (CFM) with Ez correction (Vbz/Ez)
PTHP	Educational Facilities	Classrooms (age 9 plus)	415.0	14	10.0	0.12	140	50	0.8	237
										OA required per VRP
ne Height (feet) sired Outside Air (Vo) IAQP (CFI	9.0	(1-R)V,			Air Changes Per Hour	6.3	1	VRP OA C	FM per person	16.9
pply Air Full Flow (Vs) (CFM)		Er A			Outside Air Per VRP		CFM		FM per person	7.1
oply Air Minimum Flow (Vs) (CFI				v.	Outside Air Per IAQ		CFM		m per person	
um Air (Vr) (CFM)	290	,RV.			Outside Air Savings		CFM		Winter Heating	ng Savings
circ. Flow Factor (R)	0.74	Vu ,Cu Er	В	T	OA Summer Drybulb	95.		OA Winter D	Design DB (F)	40
sign Flow Reduction Factor (0.64	P.	(V, + V ₀)		OA Summer Wetbulb	78.			OB Setpoint (F)	95
ntilation Effectiveness (Ez)	0.8	,			Coil Leaving Air Drybulb (F)	55.		MBH Saved		8.2
vel of Physical Activity	Standing (desk work)		Occupied Zone		Coil Leaving Air Wetbulb (F)	54		KW Saved		2.4
er Location	B		e. N. C.		OA MBH Saved Summer*	#NAN		iii oarca	11070	617
AC Flow Type	VAV				OA Tons Saved Summer*	#NAN	7.00.1	*OA = Outsi	ide Air	
		C1 - 1 - C1 - 1 - (II- ID2)	Steady State (lb/ft3)	Is Steady State Level	Contaminant		T			ost conservative values
Idonr Air Flow Tyne	Constant									
	Constant	Steady State (lb/ft3)				Filtration	Cognizant			
Indoor Contaminants	Constant	Using the VRP*	Using the IAQ Method	Acceptable at Reduced	Generation	Filtration	Cognizant			npg/npgsyn-a.html
Indoor Contaminants		Using the VRP*	Using the IAQ Method	Acceptable at Reduced	Generation					
Indoor Contaminants Generated By People	Maximum Threshold Value	Using the VRP* (Prescribed OA)	Using the IAQ Method (Reduced OA)		Generation Rate	Filtration Effectiveness				
Indoor Contaminants Generated By People & From Outdoors	Maximum Threshold Value (PPM)	Using the VRP* (Prescribed OA) Plasma Off	Using the IAQ Method (Reduced OA) Plasma On	Acceptable at Reduced OA Levels?	Generation Rate (lb/person/min)	Effectiveness	Authority***		w.cdc.gov/niosh/	npg/npgsyn-a.html
Indoor Contaminants Generated By People & From Outdoors etaldehyde	Maximum Threshold Value (PPM) 100.0	(Prescribed OA) Plasma Off 2.69E-09	Using the IAQ Method (Reduced OA) Plasma On 2.39E-09	Acceptable at Reduced OA Levels? Yes	Generation Rate (lb/person/min) 1.95E-08	Effectiveness	Authority***	http://www		npg/npgsyn-a.html
Indoor Contaminants Generated By People & From Outdoors ataldehyde atone	Maximum Threshold Value (PPM) 100.0 250.0	(Prescribed OA) Plasma Off 2.69E-09 1.47E-08	Using the IAQ Method (Reduced OA) Plasma On 2.39E-09 2.04E-08	Acceptable at Reduced OA Levels? Yes Yes	Rate (lb/person/min) 1.95E-08 1.96E-07	Effectiveness 50% 50%	Authority*** OSHA NIOSH		coz Steady	npg/npgsyn-a.html
Indoor Contaminants Generated By People & From Outdoors ataldehyde atone monia	Maximum Threshold Value (PPM) 100.0 250.0 25.00	(Prescribed OA) Plasma Off 2.69E-09	Using the IAQ Method (Reduced OA) Plasma On 2.39E-09	Acceptable at Reduced OA Levels? Yes	Generation Rate (lb/person/min) 1.95E-08	50% 50% 50%	Authority*** OSHA NIOSH NIOSH	http://www	w.cdc.gov/niosh/	npg/npgsyn-a.html
Indoor Contaminants Generated By People & From Outdoors etaidehyde etone monia	Maximum Threshold Value (PPM) 100.0 250.0	(Prescribed OA) Plasma Off 2.69E-09 1.47E-08 3.40E-07	Using the IAQ Method (Reduced OA) Plasma On 2.39E-09 2.04E-08 4.77E-07	Acceptable at Reduced OA Levels? Yes Yes Yes Yes	Rate (lb/person/min) 1.95E-08 1.96E-07 4.61E-06	Effectiveness 50% 50%	Authority*** OSHA NIOSH	http://www	coz Steady	npg/npgsyn-a.html
Indoor Contaminants Generated By People & From Outdoors etaldehyde etone emonia nzene Butanone (MEK)	Maximum Threshold Value (PPM) 100.0 250.0 25.00 1.00	Using the VRP* (Prescribed OA) Plasma Off 2.69E-09 1.47E-08 3.40E-07 1.68E-08	Using the IAQ Method (Reduced OA) Plasma On 2.39E-09 2.04E-08 4.77E-07 2.30E-08	Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes	Rate (Ib/person/min) 1.95E-08 1.96E-07 4.61E-06 2.21E-07	50% 50% 50% 50% 50%	Authority*** OSHA NIOSH NIOSH OSHA	http://www	coz Steady	npg/npgsyn-a.html
Generated By People & From Outdoors etaldehyde etone monia nzene Butanone (MEK) rbon dioxide**	Maximum Threshold Value (PPM) 100.0 250.0 25.00 1.00 200.0	Using the VRP* (Prescribed OA) Plasma Off 2.69E-09 1.47E-08 3.40E-07 1.68E-08 9.85E-07	Using the IAQ Method (Reduced OA) Plasma On 2.39E-09 2.04E-08 4.77E-07 2.30E-08 1.38E-06	Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Y	Rate (Ib/person/min) 1.95E-08 1.96E-07 4.61E-06 2.21E-07 1.33E-05	50% 50% 50% 50% 50% 50%	Authority*** OSHA NIOSH NIOSH OSHA NIOSH	6,000 —	coz Steady	npg/npgsyn-a.html
Indoor Contaminants Generated By People & From Outdoors staldehyde stone monia 12ene Butanone (MEK) bon dioxide**	Maximum Threshold Value (PPM) 100.0 250.0 25.00 1.00 200.0 5000	Using the VRP* (Prescribed OA) Plasma Off 2.69E-09 1.47E-08 3.40E-07 1.68E-08 9.85E-07 4.77E-05	Using the IAQ Method (Reduced OA) Plasma On 2.39E-09 2.04E-08 4.77E-07 2.30E-08 1.38E-06 5.15E-05	Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Rate (Ib/person/min) 1.95E-08 1.96E-07 4.61E-06 2.21E-07 1.33E-05 3.73E-05	50% 50% 50% 50% 50% 50% 0%	Authority*** OSHA NIOSH NIOSH OSHA NIOSH NIOSH NIOSH	6,000 —	coz Steady	State (PPM)
Indoor Contaminants Generated By People & From Outdoors staldehyde stone monia nzene Butanone (MEK) bon dioxide** oroform xane	Maximum Threshold Value (PPM) 100.0 250.0 25.00 1.00 200.0 5000 2.0	Using the VRP* (Prescribed OA) Plasma Off 2.69E-09 1.47E-08 3.40E-07 1.68E-08 9.85E-07 4.77E-05 3.05E-08	Using the IAQ Method (Reduced OA) Plasma On 2.39E-09 2.04E-08 4.77E-07 2.30E-08 1.38E-06 5.15E-05 4.27E-08	Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Rate (lb/person/min) 1.95E-08 1.96E-07 4.61E-06 2.21E-07 1.33E-05 3.73E-05 4.13E-07	50% 50% 50% 50% 50% 50% 0% 50%	Authority*** OSHA NIOSH NIOSH OSHA NIOSH NIOSH NIOSH NIOSH NIOSH	6,000 — 5,000 — 4,000 — 3,000 —	coz Steady	npg/npgsyn-a.html
Indoor Contaminants Generated By People & From Outdoors etaldehyde etone eton	Maximum Threshold Value (PPM) 100.0 250.0 25.00 1.00 200.0 5000 2.0	Using the VRP* (Prescribed OA) Plasma Off 2.69E-09 1.47E-08 3.40E-07 1.68E-08 9.85E-07 4.77E-05 3.05E-08 0.00E+00	Using the IAQ Method (Reduced OA) Plasma On 2.39E-09 2.04E-08 4.77E-07 2.30E-08 1.38E-06 5.15E-05 4.27E-08 0.00E+00	Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Rate (lb/person/min) 1.95E-08 1.96E-07 4.61E-06 2.21E-07 1.33E-05 3.73E-05 4.13E-07 0.00E+00	50% 50% 50% 50% 50% 50% 50% 50% 50%	Authority*** OSHA NIOSH NIOSH OSHA NIOSH NIOSH NIOSH NIOSH NIOSH OSHA	6,000 — 5,000 — 4,000 —	coz Steady	State (PPM)
Indoor Contaminants Generated By People & From Outdoors etaldehyde etone monia nzeene Butanone (MEK) rbon dioxide** foroform exane drogen Sulfide thane	Maximum Threshold Value (PPM) 100.0 250.0 25.00 1.00 200.0 5000 2.0 100.0 100.0	Using the VRP* (Prescribed OA) Plasma Off 2.69E-09 1.47E-08 3.40E-07 1.68E-08 9.85E-07 4.77E-05 3.05E-08 0.00E+00 0.00E+00	Using the IAQ Method (Reduced OA) Plasma On 2.39E-09 2.04E-08 4.77E-07 2.30E-08 1.38E-06 5.15E-05 4.27E-08 0.00E+00 0.00E+00	Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Rate (Ib/person/min) 1.95E-08 1.96E-07 4.61E-06 2.21E-07 1.33E-05 3.73E-05 4.13E-07 0.00E+00	50% 50% 50% 50% 50% 50% 50% 50% 50% 50%	Authority*** OSHA NIOSH OSHA NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH	6,000 — 5,000 — 4,000 — 3,000 — 2,000 —	coz Steady	State (PPM)
Indoor Contaminants Generated By People & From Outdoors staldehyde stone monia nzene Butanone (MEK) rbon dioxide** oroform xane drogen Sulfide thane thanol	Maximum Threshold Value (PPM) 100.0 250.0 25.00 1.00 200.0 5000 2.0 100.0 10.0 NA	Using the VRP* (Prescribed OA) Plasma Off 2.69E-09 1.47E-08 3.40E-07 1.68E-08 9.85E-07 4.77E-05 3.05E-08 0.00E+00 0.00E+00 6.87E-08	Using the IAQ Method (Reduced OA) Plasma On 2.39E-09 2.04E-08 4.77E-07 2.30E-08 1.38E-06 5.15E-05 4.27E-08 0.00E+00 0.00E+00 6.87E-08	Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Rate (Ib/person/min) 1.95E-08 1.96E-07 4.61E-06 2.21E-07 1.33E-05 3.73E-05 4.13E-07 0.00E+00 0.00E+00	50% 50% 50% 50% 50% 50% 50% 50% 50% 50%	Authority*** OSHA NIOSH NIOSH OSHA NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH NIOSH	6,000 — 5,000 — 4,000 — 3,000 —	coz Steady	State (PPM)
Indoor Contaminants Generated By People & From Outdoors staldehyde stone monia nzene Butanone (MEK) mon dioxide** oroform xane drogen Sulfide thane thanol thylene Chloride	Maximum Threshold Value (PPM) 100.0 250.0 25.00 1.00 200.0 5000 2.0 100.0 100.0 NA 200.0	Using the VRP* (Prescribed OA) Plasma Off 2.69E-09 1.47E-08 3.40E-07 1.68E-08 9.85E-07 4.77E-05 3.05E-08 0.00E+00 0.00E+00 6.87E-08 1.24E-08	Using the IAQ Method (Reduced OA) Plasma On 2.39E-09 2.04E-08 4.77E-07 2.30E-08 1.38E-06 5.15E-05 4.27E-08 0.00E+00 0.00E+00 6.87E-08 2.95E-08	Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Rate (Ib/person/min) 1.95E-08 1.96E-07 4.61E-06 2.21E-07 1.33E-05 3.73E-05 4.13E-07 0.00E+00 0.00E+00 1.69E-07	50% 50% 50% 50% 50% 50% 50% 50% 50% 50%	Authority*** OSHA NIOSH NIOSH OSHA NIOSH NIOSH NIOSH OSHA NIOSH NIOSH NIOSH NIOSH	6,000 — 5,000 — 4,000 — 3,000 — 2,000 —	coz Steady	State (PPM)
Indoor Contaminants Generated By People & From Outdoors staldehyde stone monia nzene Butanone (MEK) rbon dioxide** oroform xane drogen Sulfide thane thanol thylene Chloride	Maximum Threshold Value (PPM) 100.0 250.0 25.00 1.00 200.0 5000 2.0 100.0 100.0 NA 200.0 25.0	Using the VRP* (Prescribed OA) Plasma Off 2.69E-09 1.47E-08 3.40E-07 1.68E-08 9.85E-07 4.77E-05 3.05E-08 0.00E+00 0.00E+00 6.87E-08 1.24E-08 8.94E-07	Using the IAQ Method (Reduced OA) Plasma On 2.39E-09 2.04E-08 4.77E-07 2.30E-08 1.38E-06 5.15E-05 4.27E-08 0.00E+00 0.00E+00 6.87E-08 2.95E-08 1.25E-06	Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Rate (Ib/person/min) 1.95E-08 1.96E-07 4.61E-06 2.21E-07 1.33E-05 3.73E-05 4.13E-07 0.00E+00 0.00E+00 1.69E-07 1.21E-05	50% 50% 50% 50% 50% 50% 50% 50% 0% 50% 5	Authority*** OSHA NIOSH NIOSH OSHA NIOSH NIOSH NIOSH NIOSH OSHA NIOSH NIOSH OSHA NIOSH OSHA	6,000 — 5,000 — 4,000 — 2,000 — 1,000 —	coz Steady	State (PPM)
Indoor Contaminants Generated By People & From Outdoors staldehyde stone monia nzene Butanone (MEK) rbon dioxide** oroform xane drogen Sulfide thane thanol thylene Chloride prane rachloroethane	Maximum Threshold Value (PPM) 100.0 250.0 25.00 1.00 200.0 5000 2.0 100.0 10.0 NA 200.0 25.0 100.0 25.0	Using the VRP* (Prescribed OA) Plasma Off 2.69E-09 1.47E-08 3.40E-07 1.68E-08 9.85E-07 4.77E-05 3.05E-08 0.00E+00 0.00E+00 6.87E-08 1.24E-08 8.94E-07 1.12E-09	Using the IAQ Method (Reduced OA) Plasma On 2.39E-09 2.04E-08 4.77E-07 2.30E-08 1.38E-06 5.15E-05 4.27E-08 0.00E+00 0.00E+00 6.87E-08 2.95E-08 1.26E-06 1.12E-09	Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Rate (Ib/person/min) 1.95E-08 1.96E-07 4.61E-06 2.21E-07 1.33E-05 3.73E-05 4.13E-07 0.00E+00 0.00E+00 1.69E-07 1.21E-05 0.00E+00	50% 50% 50% 50% 50% 50% 50% 50% 0% 50% 5	Authority*** OSHA NIOSH NIOSH OSHA NIOSH	6,000 — 5,000 — 4,000 — 2,000 — 1,000 —	coz Steady	2,082
Indoor Contaminants Generated By People & From Outdoors ataldehyde atone monia nzene Butanone (MEK) rbon dioxide** loroform ixane drogen Sulfide thane thanol thylene Chloride prane prachloroethane rachloroethylene	Maximum Threshold Value (PPM) 100.0 250.0 25.00 1.00 200.0 5000 2.0 100.0 10.0 NA 200.0 25.0 1000.0 5.0	Using the VRP* (Prescribed OA) Plasma Off 2.69E-09 1.47E-08 3.40E-07 1.68E-08 9.85E-07 4.77E-05 3.05E-08 0.00E+00 6.87E-08 1.24E-08 8.94E-07 1.12E-09 0.00E+00	Using the IAQ Method (Reduced OA) Plasma On 2.39E-09 2.04E-08 4.77E-07 2.30E-08 1.38E-06 5.15E-05 4.27E-08 0.00E+00 0.00E+00 6.87E-08 2.95E-08 1.2E-06 1.12E-09 0.00E+00	Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Rate (Ib/person/min) 1.95E-08 1.96E-07 4.61E-06 2.21E-07 1.33E-05 3.73E-05 4.13E-07 0.00E+00 0.00E+00 1.69E-07 1.21E-05 0.00E+00	50% 50% 50% 50% 50% 50% 50% 50% 0% 50% 5	Authority*** OSHA NIOSH OSHA NIOSH	6,000 — 5,000 — 4,000 — 2,000 — 1,000 —	cO2 Steady	2,082
Indoor Contaminants Generated By People & From Outdoors	Maximum Threshold Value (PPM) 100.0 250.0 25.00 1.00 200.0 5000 2.0 100.0 10.0 NA 200.0 25.0 1000.0 5.0 1000.0	Using the VRP* (Prescribed OA) Plasma Off 2.69E-09 1.47E-08 3.40E-07 1.68E-08 9.85E-07 4.77E-05 3.05E-08 0.00E+00 0.00E+00 6.87E-08 1.24E-08 8.94E-07 1.12E-09 0.00E+00 1.02E-06	Using the IAQ Method (Reduced OA) Plasma On 2.39E-09 2.04E-08 4.77E-07 2.30E-08 1.38E-06 5.15E-05 4.27E-08 0.00E+00 0.00E+00 6.87E-08 2.95E-08 1.25E-06 1.12E-09 0.00E+00 1.42E-06	Acceptable at Reduced OA Levels? Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Rate (Ib/person/min) 1.95E-08 1.96E-07 4.61E-06 2.21E-07 1.33E-05 3.73E-05 4.13E-07 0.00E+00 0.00E+00 1.69E-07 1.21E-05 0.00E+00 0.00E+00	50% 50% 50% 50% 50% 50% 50% 50% 0% 50% 5	Authority*** OSHA NIOSH OSHA NIOSH OSHA NIOSH OSHA OSHA	6,000 — 5,000 — 4,000 — 2,000 — 1,000 — 1 = NIOSH •	coc gov/niosh/	2,082

2 IAQ METHOD CALCULATION M2.3 PTHP (TYPICAL)

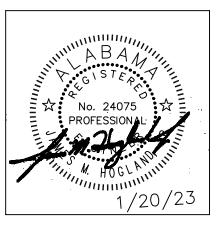
to control the other contaminants of concern, as found on submarines.

CLASSROOM ADDITION TO

LINCOLN HIGH SCHOO

78975 HIGHWAY 77, LINCOLN, ALABAMA 3509

TALLADEGA COUNTY BOARD OF EDUCATION



SHEET TITLE:

MECHANICAL OUTSIDE AIR
CALCULATIONS AND
CONTROL DIAGRAMS

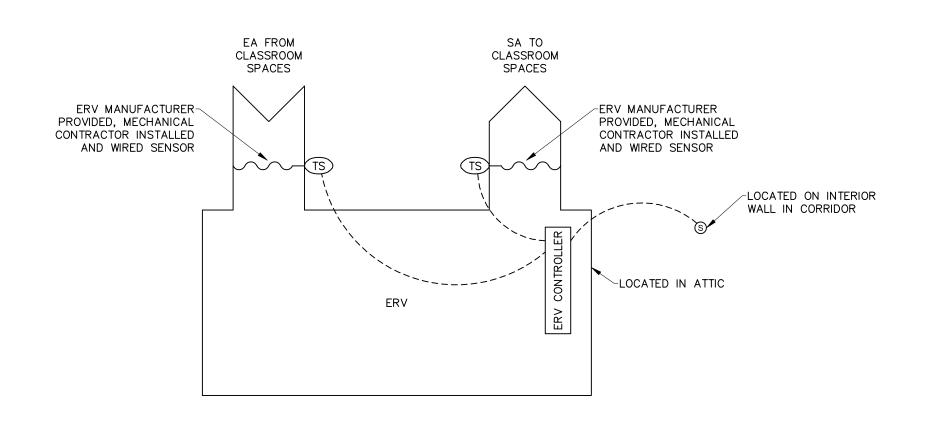
PROJ. MGR.: JMH
DRAWN: ZBL/CRA
DATE: 1/20/23
REVISIONS

JOB NO. **22-20**

SHEET NO:

M2 3

0 1" 2'



NOTES:

1) ERV AND ITS SENSORS, ETC. ARE PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR.

2) ERV MANUFACTURER SUPPLIES ON BOARD SENSORS TO BE UNCOILED AND FIELD INSTALLED IN OUTSIDE AIR AND SUPPLY AIR DUCTWORK.
REFER TO MANUFACTURER'S RECOMMENDATIONS ON LOCATION OF SENSORS.
3) ERV MANUFACTURER SUPPLIES REMOTE SPACE TEMPERATURE AND

HUMIDITY SENSOR(S) TO BE WALL-MOUNTED AND WIRED BY THE MECHANICAL CONTRACTOR.

BERV CONTROL DIAGRAM
M2.3 NO SCALE

LIGHTING FIXTURE SCHEDULE

				LAMPS		14011117110	7.05	DE0500	
MARK	MANUFACTURER	CATALOG NO.	NO.	WATTS	TYPE	MOUNTING HEIGHT	TYPE MOUNTING	RECESS DEPTH	REMARKS
			NO.	WAIIS	IIFE				
Α	METALUX	24CGT5535C	FURNISH	HED WITH F	FIXTURE	CEILING	RECESSED	2-1/8"	
A (EM)	METALUX	24CGT5535C-EL14W	FURNISH	HED WITH F	FIXTURE	CEILING	RECESSED	2-1/8"	SEE NOTE 1
A1 (EM)	METALUX	24CGT5535C EBPLED7W3H	FURNISH	HED WITH F	FIXTURE	CEILING	RECESSED	2-1/8"	SEE NOTES 1 & 4
В	METALUX	24CGT4535C	FURNISH	HED WITH F	FIXTURE	CEILING	RECESSED	2-1/8"	
B (EM)	METALUX	24CGT4535C-EL14W	FURNISH	HED WITH F	FIXTURE	CEILING	RECESSED	2-1/8"	SEE NOTE 1
B1 (EM)	METALUX	24CGT4535C EBPLED7W3H	FURNISH	HED WITH F	FIXTURE	CEILING	RECESSED	2-1/8"	SEE NOTES 1 & 4
С	PATHWAY LIGHTING	6VLFL2X-3000-35K-DA- 6VLEDMD-SCLPF	FURNISH	HED WITH F	FIXTURE	CEILING	RECESSED	6"	
C (EM)	PATHWAY LIGHTING	6VLFL2X-3000-35K-DA- 6VLEDMD-SCLPF-EL14W	FURNISH	HED WITH F	TIXTURE	CEILING	RECESSED	6"	SEE NOTE 1
C1 (EM)	PATHWAY LIGHTING	6VLFL2X-3000-35K-DA- 6VLEDMD-SCLPF EBPLED7W3H	FURNISH	HED WITH F	FIXTURE	CEILING	RECESSED	6"	SEE NOTES 1 & 4
D	METALUX	4SNLED-LD4-4600SL- LW-UNV-L840-CD1	FURNISH	HED WITH F	FIXTURE	CEILING	SURFACE		
D (EM)	METALUX	4SNLED-LD4-4600SL- LW-UNV-L840-CD1-EL14W	FURNISH	HED WITH F	FIXTURE	CEILING	SURFACE		SEE NOTE 1
D1 (EM)	METALUX	4SNLED-LD4-4600SL- LW-UNV-L840-CD1 EBPLED7W3H	FURNISH	HED WITH F	TIXTURE	CEILING	SURFACE		SEE NOTES 1 & 4
F	MCGRAW-EDISON	ISW-E02-LED-E1- BL4-BZ-TR	FURNISH	HED WITH F	FIXTURE	+9'	BRACKET		
F (EM)	MCGRAW-EDISON	ISW-E02-LED-E1- BL4-BZ-TR-BBB	FURNISH	HED WITH F	TIXTURE	+9'	BRACKET		SEE NOTE 1
G	PATHWAY LIGHTING	6VLFL2X-3000-35K-DA- 6VLEDFOL-SCLPF	FURNISH	HED WITH F	TIXTURE	CEILING	RECESSED	6"	
G (EM)	PATHWAY LIGHTING	6VLFL2X-3000-35K-DA- 6VLEDFOL-SCLPF-EM	FURNISH	HED WITH F	FIXTURE	CEILING	RECESSED	6"	SEE NOTE 1
X	SURE-LITES	EUX7-R-UNV	FURNISH	HED WITH F	FIXTURE	€ ABOVE DOOR	BRACKET		

1. FEED ALL "EM" FIXTURES WITH SWITCHED AND UNSWITCHED HOT LEGS.

- UNSWITCHED HOT LEG IS USED FOR VOLTAGE SENSING. 2. VERIFY ALL FIXTURE COLORS WITH ARCHITECT PRIOR TO SUBMITTALS.
- 3. EQUAL FIXTURES BY LITHONIA, LUMAX, DAYBRITE, AND COLUMBIA WILL BE CONSIDERED APPROVED EQUALS.
- 4. FIXTURE TYPES A1(EM), B1(EM), C1(EM), AND D1(EM) ARE EMERGENCY LIGHTS WITH LONG RUN BATTERY PACKS. THESE LIGHTS ARE SPECIFIED WITH SURE-LITES LED BATTERY PACKS THAT ARE 7 WATTS AND RATED TO RUN FOR 3 HOURS. THERE ARE NO EXCEPTIONS TO THE BATTERY RUN TIMES.

GENERAL NOTES

- 1. SERVICE TO BUILDING IS 277/480 VOLTS, 3 PHASE, 4 WIRE.
- 2. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL DRAWINGS BEFORE ROUGHING IN SWITCHES.
- 3. VERIFY EXACT LOCATION OF ALL MOTORS AND EQUIPMENT BEFORE ROUGHING IN.
- 4. CONTRACTOR TO VERIFY LOCATION OF ALL OUTLETS PRIOR TO INSTALLATION.
- THE ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF COUNTERTOPS AND BACKSPLASHES ON ARCHITECTURAL DETAILS AND/OR CASEWORK SHOP DRAWINGS AND ADJUST SPECIFIED MOUNTING HEIGHT OF WALL OUTLETS AS REQUIRED TO AVOID CONFLICTS.
- 6. CONTRACTOR WILL CHECK ALL LIGHTING FIXTURES FOR EXACT TYPE MOUNTING AND SPACE REQUIRED BEFORE ROUGHING IN.
- 7. FURNISH AND INSTALL PLASTER FRAMES FOR ALL RECESSED FIXTURES AS REQUIRED.
- 8. SUPPORT OF ALL LIGHTING FIXTURES TO BE THE RESPONSIBILITY OF THIS CONTRACTOR. FIXTURES TO BE SUPPORTED INDEPENDENT OF CEILING FROM STRUCTURAL MEMBERS OF THE BUILDING.
- ELECTRICAL CONTRACTOR MUST CHECK THE CORRESPONDING MECHANICAL SHEETS AND BE RESPONSIBLE FOR INCLUDING PROPER
- 10. ALL CONDUIT CONCEALED UNLESS SPECIFICALLY SHOWN EXPOSED. METAL WIRE MOLD IS PERMITTED WHERE SURFACE MOUNT CONDUIT IS REQUIRED. NO EXPOSED EMT CONDUIT IN OPEN WORK AREA ROOM 101.

SERVICE AND CONNECTIONS TO ALL MECHANICAL ITEMS SHOWN THEREON REGARDLESS OF ITS BEING OR NOT BEING SHOWN ON

- 11. COORDINATE SERVICES WITH POWER AND COMMUNICATIONS COMPANIES. REMOVE OR RELOCATE ALL POWER AND COMMUNICATIONS CIRCUITS ABOVE OR BELOW GRADE THAT WOULD OBSTRUCT THE CONSTRUCTION OF THE PROJECT OR CONFLICT IN ANY MANNER WITH COMPLETION OF THE PROJECT OR ANY CODE PERTAINING THERETO. IF UTILITY COMPANY REQUIREMENTS ARE AT VARIANCE WITH THESE DRAWINGS AND SPECIFICATIONS, THE CONTRACT PRICE SHALL INCLUDE THE ADDITIONAL COST.
- 12. IT IS INTENDED THAT SPECIFICATIONS AND PLANS SHALL INCLUDE EVERYTHING REQUIRED AND NECESSARY FOR PROPER AND COMPLETE INSTALLATION OF THE COMPLETE SYSTEMS SHOWN EVEN THOUGH EVERY ITEM MAY NOT BE PARTICULARLY MENTIONED IN DETAIL. THE CONTRACTOR SHALL DELIVER TO OTHER TRADES ANY EQUIPMENT THAT MUST BE INSTALLED DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD MEASUREMENTS AND COORDINATION OF THE PHYSICAL SIZE OF ALL EQUIPMENT WITH THE ARCHITECTURAL REQUIREMENTS OF THE SPACES INTO WHICH THE EQUIPMENT WILL BE INSTALLED.
- 13. THIS CONTRACTOR SHALL INSTALL EQUIPMENT GROUNDS THROUGHOUT THIS PROJECT, USING GREEN INSULATED GROUND WIRE. USE OF CONDUIT AS THE ONLY GROUND CONDUCTOR WILL NOT BE ALLOWED. (SIZE GROUND WIRES PER N.E.C.)
- REMOVE ALL EXISTING PANELBOARDS, DISCONNECTS, FIXTURES, RECEPTACLES, AUXILIARY SYSTEM DEVICES, CONDUIT, CONDUCTORS, ETC. BEING RENDERED OBSOLETE BY THIS PROJECT.
- WHERE EXISTING REMAINING CIRCUITS ARE BEING INTERRUPTED DUE TO STRUCTURAL AND/OR DESIGN CHANGES, THIS CONTRACTOR WILL EXTEND EXISTING CIRCUITS AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY TO REMAINING ACTIVE DEVICES.

ELECTRICAL SYMBOLS

(A) 1	CEILING OUTLET — FIXTURE "A", CIRCUIT 1, SWITCH a.
	CEILING OUTLET - FLUORESCENT FIXTURE.
$\overline{\square}$	CEILING OUTLET - FLUORESCENT INDUSTRIAL OR STRIP TYPE.
\bigcirc	WALL OUTLET - INCANDESCENT BRACKET TYPE.
-Q	WALL OUTLET - FLUORESCENT BRACKET TYPE.
⊕ ⊕	WALL OUTLET - DUPLEX OUTLET, 20A, 125V, GROUNDED, PASS & SEYMOUR PT5362A-GRY WITH PT6STR PLUG TAIL CONNECTOR. WALL OUTLET - DUPLEX OUTLET, 20A, 125V, GROUNDED, PASS & SEYMOUR PT5362A-GRY WITH PT6STR PLUG TAIL CONNECTOR - MOUNT AT 6" ABOVE COUNT
\Rightarrow	WALL OUTLET - SINGLE OUTLET, 30A, 125/250V, 4W, HUBBELL #HBL9430A RECEPTACLE.
-⊕ GFCI -⊕ WP GFCI	WALL OUTLET — DUPLEX OUTLET, 20A, 125V, GROUNDED, PASS & SEYMOUR PT2095—GRY WITH PT6STR PLUG TAIL CONNECTOR. WALL OUTLET — DUPLEX OUTLET, 20A, 125V, GROUNDED, WEATHERPROOF, PASS & SEYMOUR PT2095—GRY WITH PT6STR PLUG TAIL CONNECTOR. INSTALL #WIUC10—CAGV WEATHERPROOF COVER. DEVICE SHALL BE LABELED AS "EXTRA DUTY".
•	FLOOR OUTLET — CONDUIT STUB UP.
<u> </u>	CEILING OUTLET - JUNCTION BOX.
~~[]	WALL OUTLET - JUNCTION BOX WITH FLEXIBLE CONNECTION TO EQUIPMENT.
\$	SWITCH OUTLET - AC TYPE, SINGLE POLE, 20A, 120/277V, HUBBELL #1221 - GREY.("N" DENOTES NARROW)
\$ _D	SWITCH OUTLET — FLUORESCENT DIMMER — LUTRON NOVA—T SERIES #NTF—103P.
\$2	SWITCH OUTLET — AC TYPE, TWO POLE, 20A, 120/277V, HUBBELL #1222 — GREY.
\$ ₃	SWITCH OUTLET — AC TYPE, THREE WAY, 20A, 120/277V, HUBBELL #1223 — GREY.
\$4	SWITCH OUTLET — AC TYPE, FOUR WAY, 20A, 120/277V, HUBBELL #1224 — GREY.
\$ _M	SWITCH MANUAL MOTOR STARTER, SINGLE POLE WITH OVERLOAD PROTECTION.
\$ P	SWITCH OUTLET - AC TYPE, SINGLE POLE, 20A, 120/277V, HUBBELL #12211LC.
	LIGHTING PANEL - SEE SPECIFICATIONS AND SCHEDULE.
	POWER PANELS — SEE SPECIFICATIONS AND SCHEDULE.
	BRANCH CIRCUIT CONCEALED IN WALL OR CEILING. BRANCH CIRCUIT CONCEALED IN FLOOR OR GROUND.
H	HOMERUN TO PANELBOARD - ANY CIRCUIT WITHOUT FURTHER DESIGNATION 2 # 12 & 1 # 12(G) - 1/2" CONDUIT. 3 # 12 & 1 # 12(G) - 3/4" CONDUIT. 4 # 12 & 1 # 12(G) - 3/4" CONDUIT.
—Е—	EMPTY CONDUIT - 3/4".
	BRANCH CIRCUIT EXPOSED.
0	CONDUIT RUN DOWN WALLS, CONCEALED
•	CONDUIT RUN UP WALLS, CONCEALED
(5)	MOTOR SHOWN 5hp (TYPICAL) OR 40 AMPS (TYPICAL).
\bigcirc	EXHAUST FAN MOTOR - FRACTIONAL HORSEPOWER.
\boxtimes	MAGNETIC MOTOR STARTER.
ď	NON-FUSED DISCONNECT SWITCH. (RT - RAINTIGHT).
	FUSED DISCONNECT SWITCH.
A.F.F.	ABOVE FINISHED FLOOR.
VER.	VERIFY LOCATION.
N.E.C.	NATIONAL ELECTRICAL CODE.
GFCI	GROUND FAULT CIRCUIT INTERRUPTER WEATHER PROOF
WP IG	ISOLATED GROUND
•	FIRE ALARM — SMOKE DETECTOR — SEE SPEC.
_	FIRE ALARM - HEAT DETECTOR - SEE SPEC.
⊕н	
⊕ _D	FIRE ALARM — DUCT DETECTOR — SEE SPEC.
E	FIRE ALARM — MANUAL PULL STATION — SEE SPEC.
E◀	FIRE ALARM — STROBE LIGHT — SEE SPEC.
SK€	FIRE ALARM — SPEAKER STROBE — SEE SPEC.
FACP	FIRE ALARM CONTROL PANEL — EXISTING — SEE SPEC.
S	SOUND SYSTEM - CEILING MOUNTED SPEAKER - SEE SPEC.
•—	SOUND SYSTEM - CALL-IN SWITCH - SEE SPEC.
SSC	SOUND SYSTEM CONSOLE - EXISTING - SEE SPEC.
\leftarrow	SOUND SYSTEM - CLOCK - SEE SPEC.
⊢ (D	SOUND SYSTEM - DOUBLE FACE HALL CLOCK - SEE SPEC.
TV	FUTURE TV OUTLET - EMPTY 2 GANG BOX WITH EMPTY 1-1/2" CONDUIT TO ABOVE LAY-IN CEILING (BLANK FACEPLATE)
$\overline{\nabla}$	COMPUTER OUTLET - 3/4" CONDUIT WITH CABLING-SEE SPEC.
₹	COMPUTER OUTLET - 3/4" CONDUIT WITH CABLING-MOUNT 6" ABOVE COUNTER-SEE SPEC.
_	CEILING MOUNTED MOTION DETECTOR - COOPER #OMC-P-1200-R
(M)	"
M	MOTION SENSOR SWITCHPACK — COOPER #SP20-MV (INSTALLED ABOVE LAY-IN CEILING)
\$ m s	WALL SWITCH WITH BUILT IN MOTION SENSOR - COOPER #OSW-P-0451-W WITH WALL PLATE
\$or	LIGHTING CONTROL PANEL OVERRIDE SWITCH - DIGITA 5-1B
M	MOTION SENSOR WIRING - LOW VOLTAGE WIRING (#14 THHN AS REQUIRED)

CODE EXCEPTION NOTE

THIS PROJECT HAS BEEN DESIGNED UNDER ASHRAE 90.1 2013, EXCEPT AS FOLLOWS: WE TAKE EXCEPTION TO SECTION 8.4.2 FOR REQUIRING CONTROLLED RECEPTACLES, AND SECTION 8.4.3 FOR REQUIRING ENERGY MONITORING. WE OFFICIALLY REQUEST THAT THIS PROJECT BE APPROVED WITHOUT THOSE ITEMS.

FIRE ALARM SYSTEM NOTES

- 1. PROVIDE FIRE ALARM COMPLETION DOCUMENTS AT THE STATE FINAL INSPECTION. THIS ITEM WILL BE REQUIRED BY STATE BUILDING INSPECTOR AT THE TIME OF FINAL INSPECTION (OLD CERTIFICATION FORM).
- 2. ADDITIONS AND ALTERATIONS TO THE FIRE ALARM SYSTEM REQUIRE TESTING, A RECORD OF COMPLETION, AND RECERTIFICATION. ALL FIRE ALARM WORK SHALL BE PERFORMED BY QUALIFIED PERSONNEL AS DEFINED IN NFPA-72 (2013) 10.4.2, 10.5.2, AND 10.18.1.
- 3. ALL WORK SHALL BE PERFORMED BY A CERTIFIED FIRE ALARM CONTRACTOR - SEE SPECS.

COLOR CODE FOR JUNCTION BOXES

PAINT ALL JUNCTION BOXES AND COVERS WITH COLORS AS SHOWN BELOW. PAINTING COVERS ONLY IS NOT ACCEPTABLE.

FUNCTION:	COLOR:
LIGHTING	BLUE
POWER	GREEN
FIRE ALARM	RED

COLOR CODE FOR ELECTRICAL WIRING

1. 120/208 V, 60Hz, 3 PHASE, 4 WIRE SYSTEM PHÁSE A-BLACK B-RED C-BLUE N-WHITE 277/480 V, 60Hz, 3 PHASE, 4 WIRE SYSTEM PHASE A-BROWN B-ORANGE

C-YELLOW N-GRAY 3. GROUND-GREEN

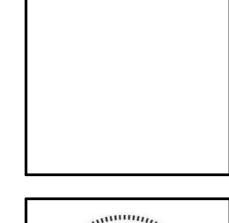
STEWART ENGINEERING ELECTRICAL CONSULTANTS

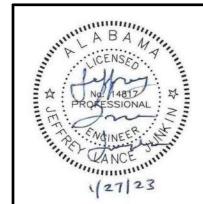
P.O. Box 2233 (36202) 300 East 7th Street (36207) Anniston, Alabama Phone: 256/237-0891 Fax No.: 256/237-1077 Email: services@stewartengineering.org Engineer:

Project Number: J. Lance Junkin, P.E. Alabama Reg. 14817

LATHAN

ARCHITECTS





SHEET TITLE: SCHEDULES, SYMBOLS, AND NOTES

PROJ	. MGR.: LAN	ICE JUNKIN
DRAW	N:	SEC
DATE:	JANUARY	31, 2023
REVIS	IONS	

JOB NO. **22-20** SHEET NO:

STORM SHELTER AREA (NO PENETRATIONS OVER 2" ALLOWED THROUGH ANY SHELTER WALLS) -NEW ADDITION <u>DPFH1</u> (MEZZANINE) □ ®snx □ THE CONTRACTOR SHALL ADD NEW DEVICES TO EXISTING FACP AS REQUIRED FOR A COMPLETE FIRE ALARM SYSTEM. THE FACP IS MONITORED AS REQUIRED. THE THE THE EXISTING HIGH SCHOOL 105 105 105 ATLAS THE CONTRACTOR WILL REPLACE CARD CATALOG EXISTING SSC WITH A NEW SSC. CONTRACTOR SHALL RECONNECT ALL EXISTING ZONES AND CONNECT ALL NEW ZONES AS REQUIRED FOR A COMPLETE SOUND SYSTEM. SEE ELECTRICAL SPECS.

PANELBOARD SCHEDULE

MADK TVE	T/DE	MAINS		BRANCHES				LUG	TYPE	AREA PANEL	AVAILABLE	DEMARKO		
MARK	TYPE -	TYPE	AMPS	SERVICE	1 POLE	2 POLE	3 POLE	SPARES	SPACES	LOCATION	MOUNTING	LOCATED	FAULT CURRENT	REMARKS
DPFH1	I-LINE	M/B	400	277/480V 3ø, 4W			1-100 1-200 1-225		5-3PS	воттом	SURFACE	ATTIC A201	10,000	SEE NOTES 1, 2, & 3
LPF	NF	LUGS	100	277/480V 3ø, 4W	11-20			6-20/1	13-1PS	воттом	SURFACE	ATTIC A201	10,000	SEE NOTES 1, 2, & 3
PPFH1	NF	LUGS	225	277/480V 3ø, 4W	12-25		4-20 1-35 1-80	2-20/3	6-1PS	воттом	SURFACE	ATTIC A201	10,000	SEE NOTES 1, 2, & 3
PPFL1	I-LINE	M/B	400	120/208V 3ø, 4W	1-20	4-30	1–225	6-20/1	5-3PS	воттом	SURFACE	ATTIC A201	10,000	SEE NOTES 1, 2, & 3
RPF	NQOD	LUGS	225	120/208V 3ø, 4W	32-20			6-20/1	16-1PS	воттом	SURFACE	ATTIC A201	10,000	SEE NOTES 1, 2, & 3 54 SPACE PANEL

LPF PPFH1

- NOTES:

 1. ALL PANELBOARDS SHALL BE CAPABLE OF WITHSTANDING AND INTERRUPTING THE AVAILABLE FAULT CURRENTS AS LISTED ABOVE.

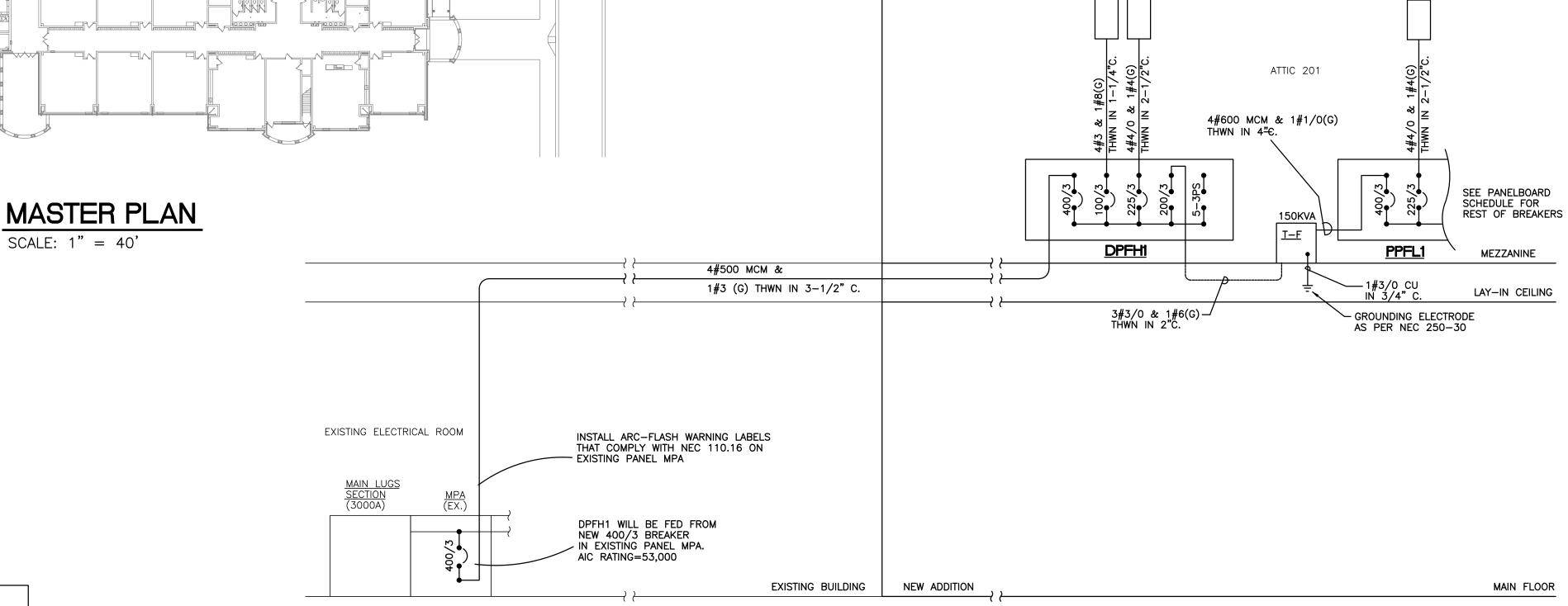
 2. ALL PANELBOARDS SHALL HAVE MICARTA LABELS SHOWING SWITCHBOARD/PANELBOARD DESIGNATION, AND OPERATING VOLTAGE. I—LINE PANELBOARDS SHALL ALSO HAVE MICARTA LABELS AT EACH BREAKER.
- 3. NO SERIES RATING WILL BE ALLOWED ON ANY PANELBOARDS.
- PANELBOARD NOTES:

 1. MANUFACTURER OF SWITCHBOARDS AND/OR PANELBOARDS SHALL PERFORM FAULT CURRENT CALCULATIONS, COORDINATION STUDY, AND ARC FLASH HAZARD ANALYSIS, AND LABEL ALL SWITCHBOARDS AND/OR PANELBOARDS, IN ACCORDANCE WITH NFPA 70E-2009 (ARTICLE 130) AND NFPA 70-2008 (ARTICLE 110.16).
- 2. CONTRACTOR SHALL FIELD MARK ELECTRICAL SERVICE EQUIPMENT WITH A CONSPICUOUS AND PERMANENT LABEL THAT INDICATES THE AVAILABLE FAULT CURRENT PER NEC 110.24.
- 3. CONTRACTOR SHALL FIELD MARK ELECTRICAL PANELS WITH A CONSPICUOUS AND PERMANENT LABEL THAT INDICATES WHERE PANELS ARE FED FROM PER NEC 408.4(B).

TRANSFORMER SCHEDULE

MARK	SIZE	PRIMARY	SECONDARY	MANUFACTURER	CATALOG NUMBER	REMARKS	
T-F	150 KVA	480V 3ø DELTA	120/208V 3ø, 4W, WYE	SQUARE D	150T3H	SEE NOTE 1	

1. BOND TRANSFORMER LOWSIDE NEUTRAL TO THE TRANSFORMER CASE, TO THE "INCOMING" AND "OUTGOING" GROUND WIRES, AND TO GROUNDING ELECTRODE (AS PER NEC 250-30) AT EACH TRANSFORMER, USING #3/0 CU.



ELECTRICAL SINGLE LINE DIAGRAM

N.T.S.

ELECTRICAL CONSULTANTS P.O. Box 2233 (36202) 300 East 7th Street (36207) Anniston, Alabama Phone: 256/237-0891 Fax No.: 256/237-1077

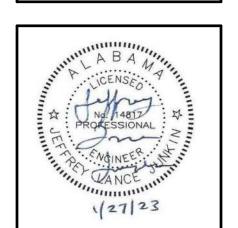
STEWART ENGINEERING

Email: services@stewartengineering.org J. Lance Junkin, P.E. Alabama Reg. 14817

Project Number:

2 OF 8

ARCHITECTS



SHEET TITLE:

MASTER PLAN AND SINGLE LINE DIAGRAM

PROJ. MGR.: LANCE JUNKIN DATE: JANUARY 31, 2023

JOB NO. **22-20**

SHEET NO:

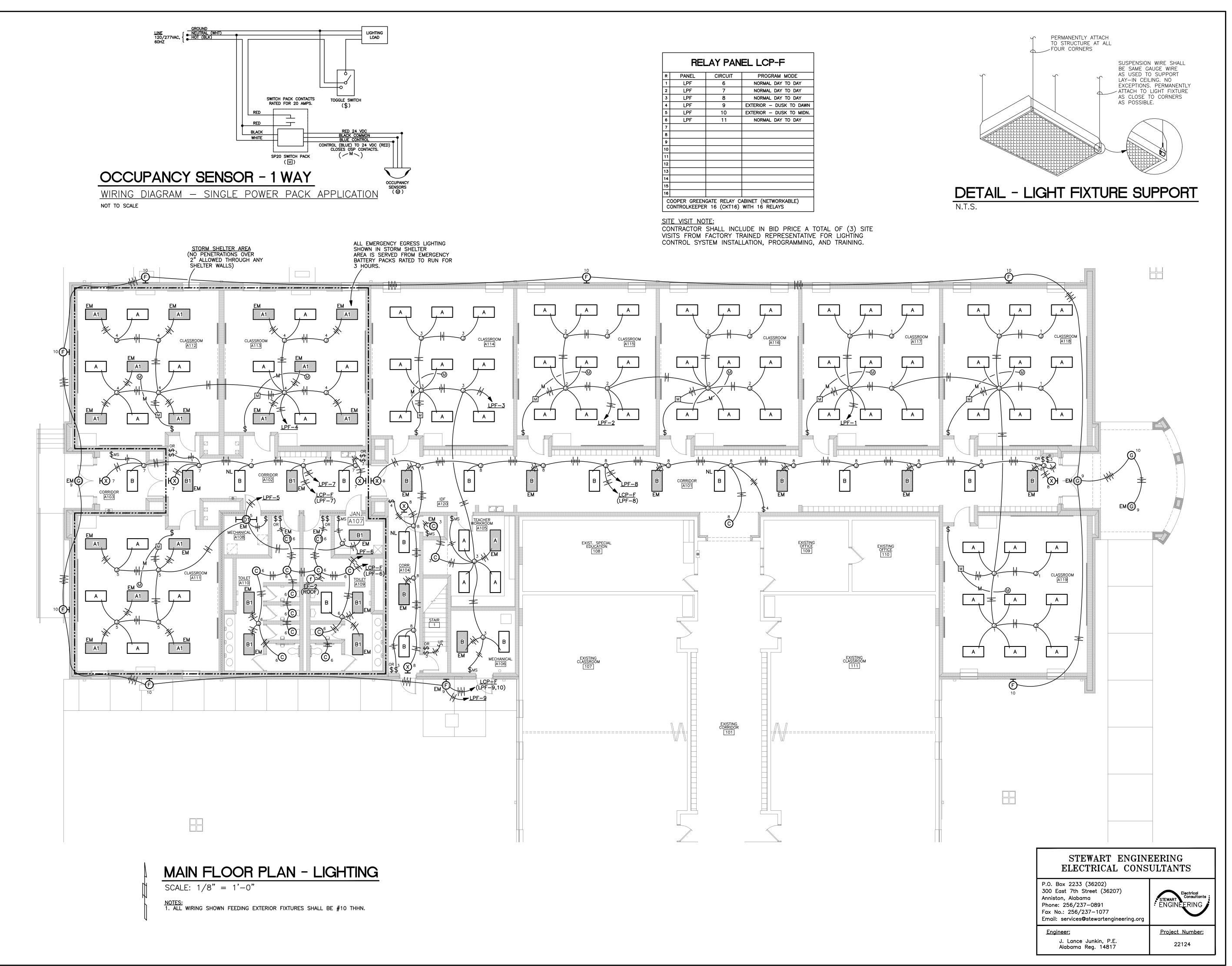
1 — 6 STRAND FIBER OPTIC CABLE — IN 2" INNERDUCT. CABLES SUPPLIED, INSTALLED AND TERMINATED

MDF FIBER OPTIC CABLE RISER DIAGRAM

<u>MDF</u> (EX.)

BY ELECTRICAL CONTRACTOR

(TYPICAL)



LATHAN ARCHITECTS

M ADDITION TO

LN HIGH SCHOOL

GHWAY 77, LINCOLN, ALABAMA 35096

A COUNTY BOARD OF EDUCATION

A B A MACE TO THE PROJECT OF THE PRO

SHEET TITLE:

MAIN FLOOR PLAN — LIGHTING

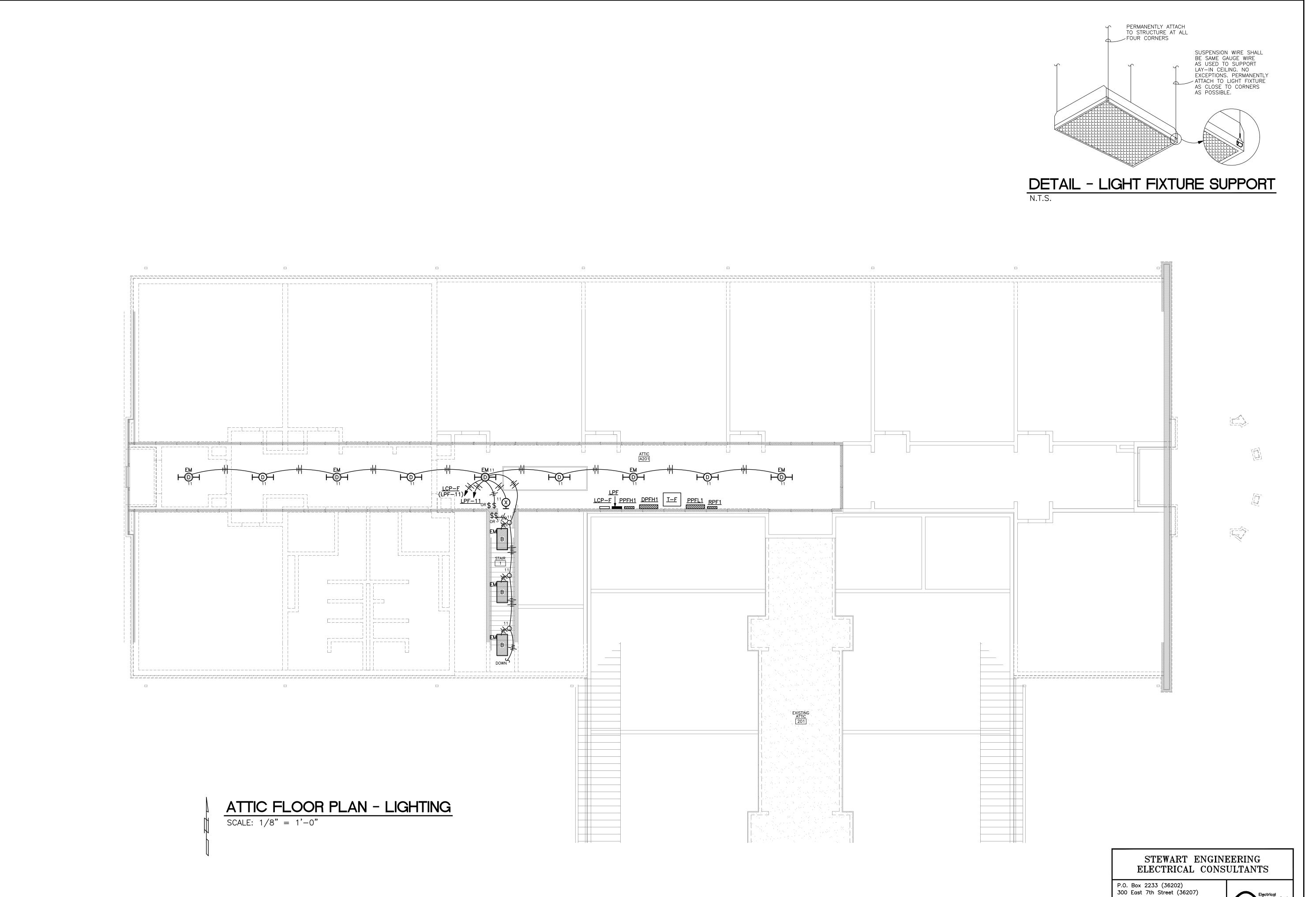
PROJ. MGR.: LANCE JUNKIN
DRAWN: SEC
DATE: JANUARY 31, 2023

DRAWN: SEC
DATE: JANUARY 31, 2023
REVISIONS

JOB NO. **22-20**

SHEET NO: **E3.1**

3 OF 8



LATHAN ARCHITECTS

OM ADDITION TO

OLN HIGH SCHOOL

HIGHWAY 77, LINCOLN, ALABAMA 35096

A COUNTY BOARD OF EDUCATION

A B A



SHEET TITLE:

ATTIC FLOOR PLAN — LIGHTING

PROJ. MGR.: LANCE JUNKIN
DRAWN: SEC
DATE: JANUARY 31, 2023
REVISIONS

JOB NO. **22-20**SHEET NO:

Anniston, Alabama

Phone: 256/237-0891 Fax No.: 256/237-1077

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J. Lance Junkin, P.E. Alabama Reg. 14817 Project Number:

E3.2

4 OF 8

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Anniston, Alabama

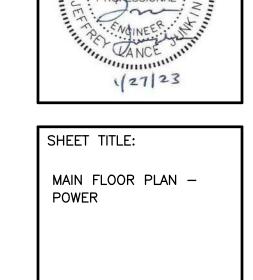
Engineer:

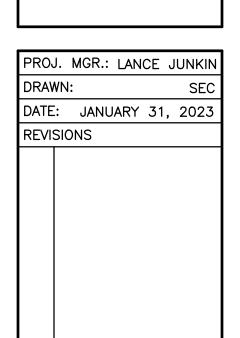
300 East 7th Street (36207)

Email: services@stewartengineering.org

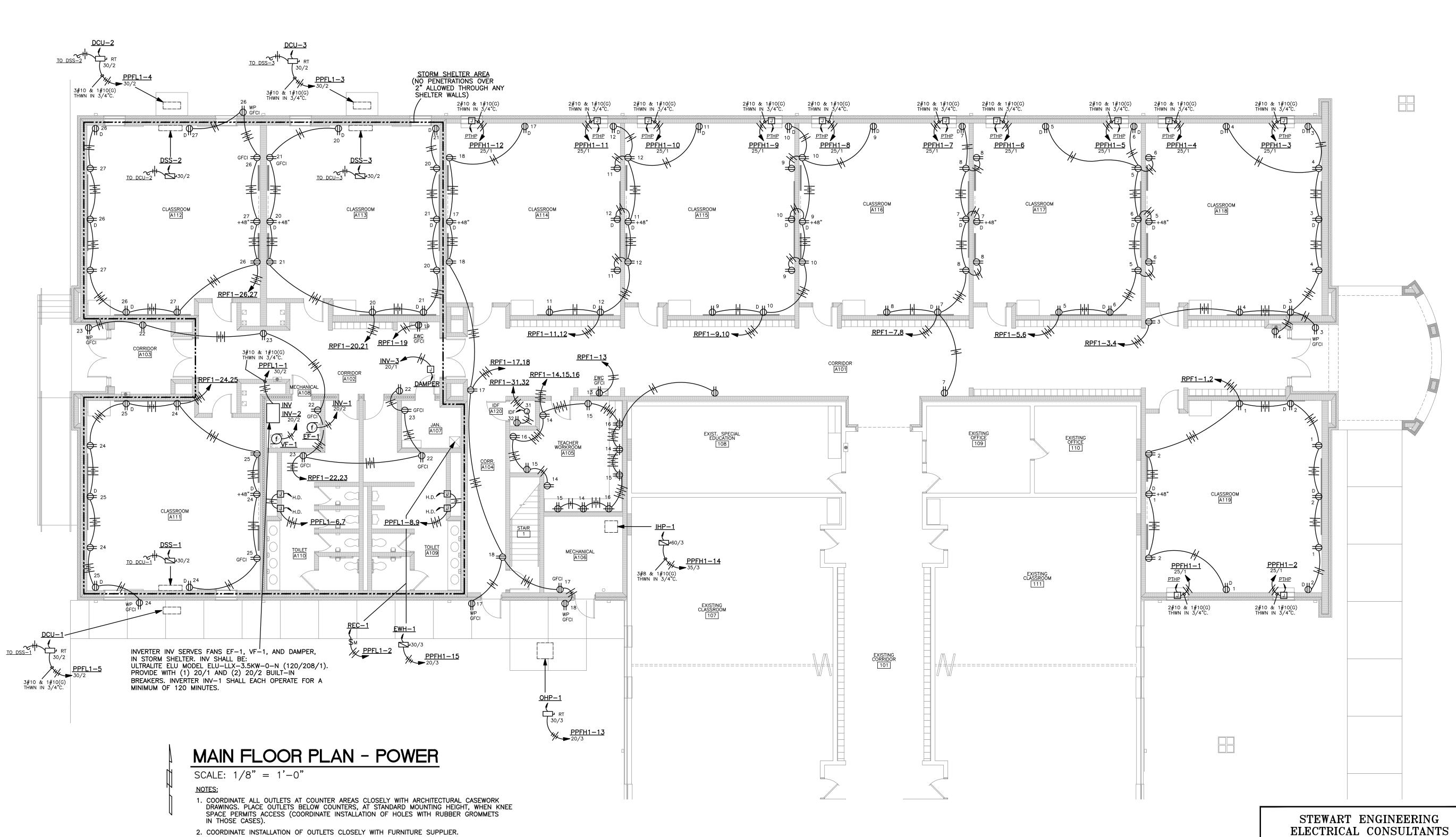
J. Lance Junkin, P.E. Alabama Reg. 14817

Project Number:





JOB NO. **22-20** SHEET NO: **E4.1** 5 OF 8



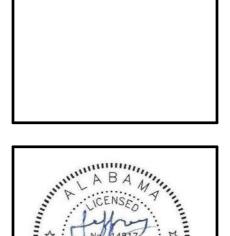
2. COORDINATE INSTALLATION OF OUTLETS CLOSELY WITH FURNITURE SUPPLIER.

3. ALL BRANCH CIRCUIT HOME RUNS THAT EXCEED 100' IN LENGTH SHALL BE #10 THHN.



CLASSROOM ADDITION TO

INCOLN HIGH SCHOOL
78989 AL HIGHWAY 77, LINCOLN, ALABAMA 35096
FALLADEGA COUNTY BOARD OF EDUCATION



MONGINEER NATURAL NATURA NATUR

SHEET TITLE:

ATTIC FLOOR PLAN — POWER

PROJ. MGR.: LANCE JUNKIN
DRAWN: SEC
DATE: JANUARY 31, 2023
REVISIONS

JOB NO. **22-20**

SHEET NO: **E4.2**

J. Lance Junkin, P.E. Alabama Reg. 14817 6 OF 8

OUTLET NUMBER: ROOM NUMBER: **2**A PATCH PANEL/PORT #: **IDF NUMBER:** IDF-F 1/1

DETAIL - DATA CABLE LABEL

1. LABEL ALL CABLES EVERY 50' AND AT EACH END.

WAP 6A ♥ Ŝ SSF6

- 2. EXACT LABEL METHOD SHALL BE COORDINATED WITH, AND APPROVED BY, ENGINEER PRIOR TO PURCHASE AND INSTALLATION.

3-4" SLEEVES AT 12" ABOVE CEILING FOR ROUTING

COMPUTER CABLES

INSTALL CABLE TRAY ABOVE

─IDF-F

3. IF ONLY ONE (1) OUTLET IN A ROOM, LABEL OUTLET AS 1A. 4. ROOM NUMBERS ON LABELS SHALL CORRESPOND TO FINAL ROOM NUMBERS IN FIELD (NOT NECESSARILY SAME AS ON CONSTRUCTION DRAWINGS).

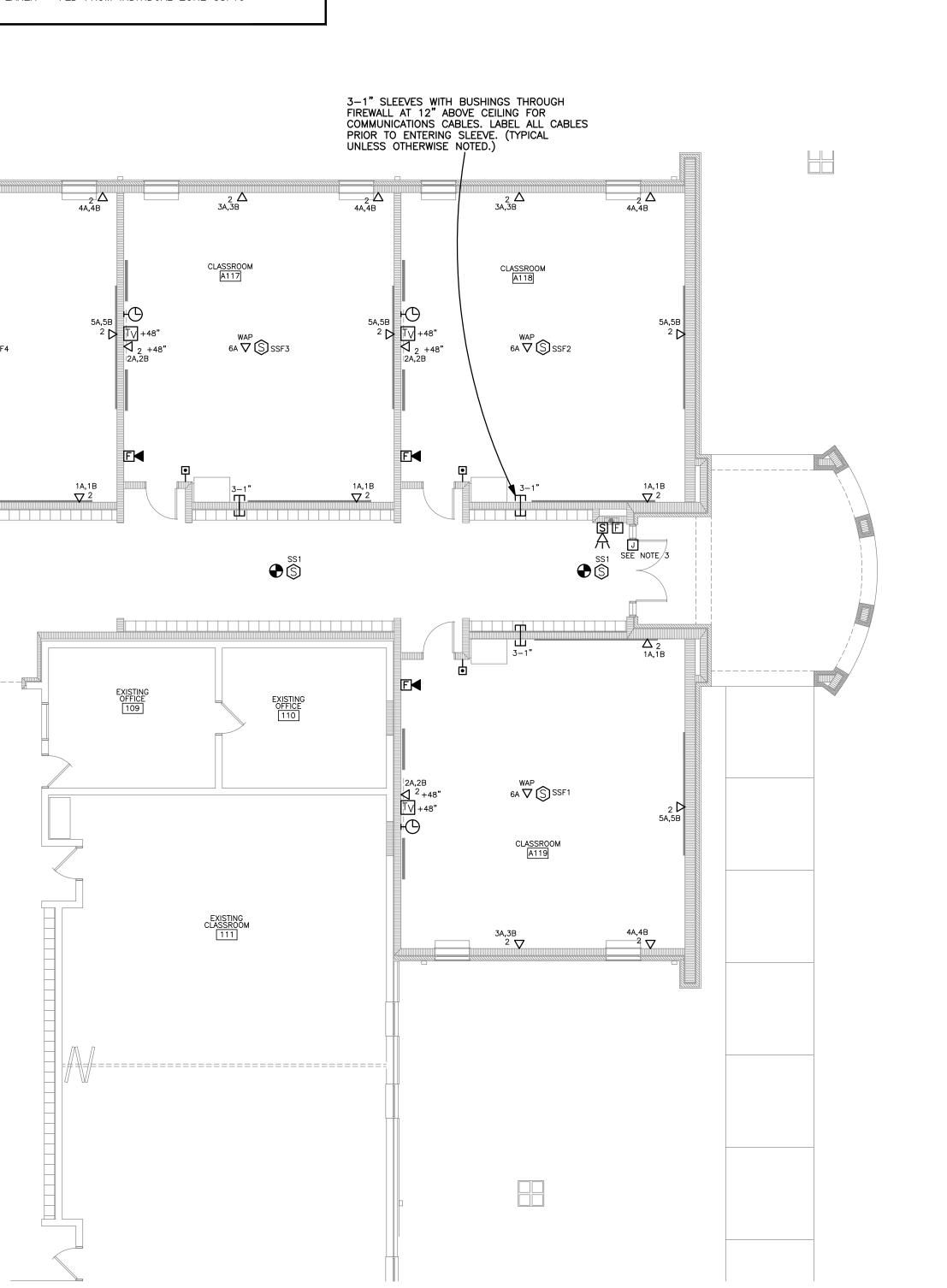
WAP 6A ♥ Ŝ SSF5

AUXILIARY CIRCUIT LEGEND

SPEAKER - FED FROM COMMON ZONE SS1

DATA OUTLET 2A (1 CAT. 6 CABLE PULLED TO JUNCTION BOX AND TERMINATED, LEAVE 12" SLACK ON EACH CABLE)

SPEAKER - FED FROM INDIVIDUAL ZONE SSF10



MAIN FLOOR PLAN - AUXILIARIES

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

SSF8Ŝ∇6A

SSF9 S WAP

SEE NOTE 3

STORM SHELTER AREA
(NO PENETRATIONS OVER
2" ALLOWED THROUGH ANY

SHELTER WALLS)

NOTES:

1. ALL COMPUTER OUTLETS SHOWN ARE SERVED FROM NEW IDF-F.

MECHANICAL A108

- 2. COORDINATE FINAL LOCATIONS OF ALL CEILING SPEAKERS, SMOKE DETECTORS, ETC. TO AVOID CONFLICT WITH LIGHT FIXTURES AND MECHANICAL DIFFUSERS. PLACE THESE DEVICES AS CLOSE AS POSSIBLE TO LOCATION SHOWN ON THESE DRAWINGS. COORDINATE WITH FIRE ALARM SYSTEM MANUFACTURER WITH REGARD TO APPROPRIATE "MINIMUM" DISTANCE FROM DIFFUSERS.
- 3. AT THESE DOOR LOCATIONS, CONTRACTOR SHALL INSTALL EMPTY JUNCTION BOX WITH 3/4" EMPTY CONDUIT WITH PULL STRING TO ABOVE LAY-IN CEILING FOR FUTURE CARD ACCESS SYSTEM. COORDINATE CLOSELY WITH ARCHITECT FOR DOOR HARDWARE CONFIGURATION.

STEWART ENGINEERING **ELECTRICAL CONSULTANTS**

P.O. Box 2233 (36202) 300 East 7th Street (36207) Anniston, Alabama Phone: 256/237-0891 Fax No.: 256/237-1077 Email: services@stewartengineering.org

Engineer: J. Lance Junkin, P.E. Alabama Reg. 14817

Project Number:

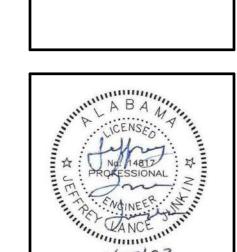
7 OF 8

SHEET NO:

JOB NO. **22-20**

E5.1

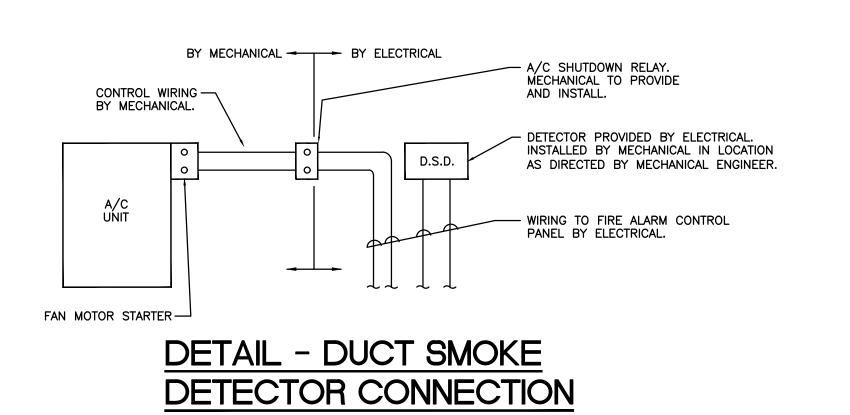
LATHAN ARCHITECTS



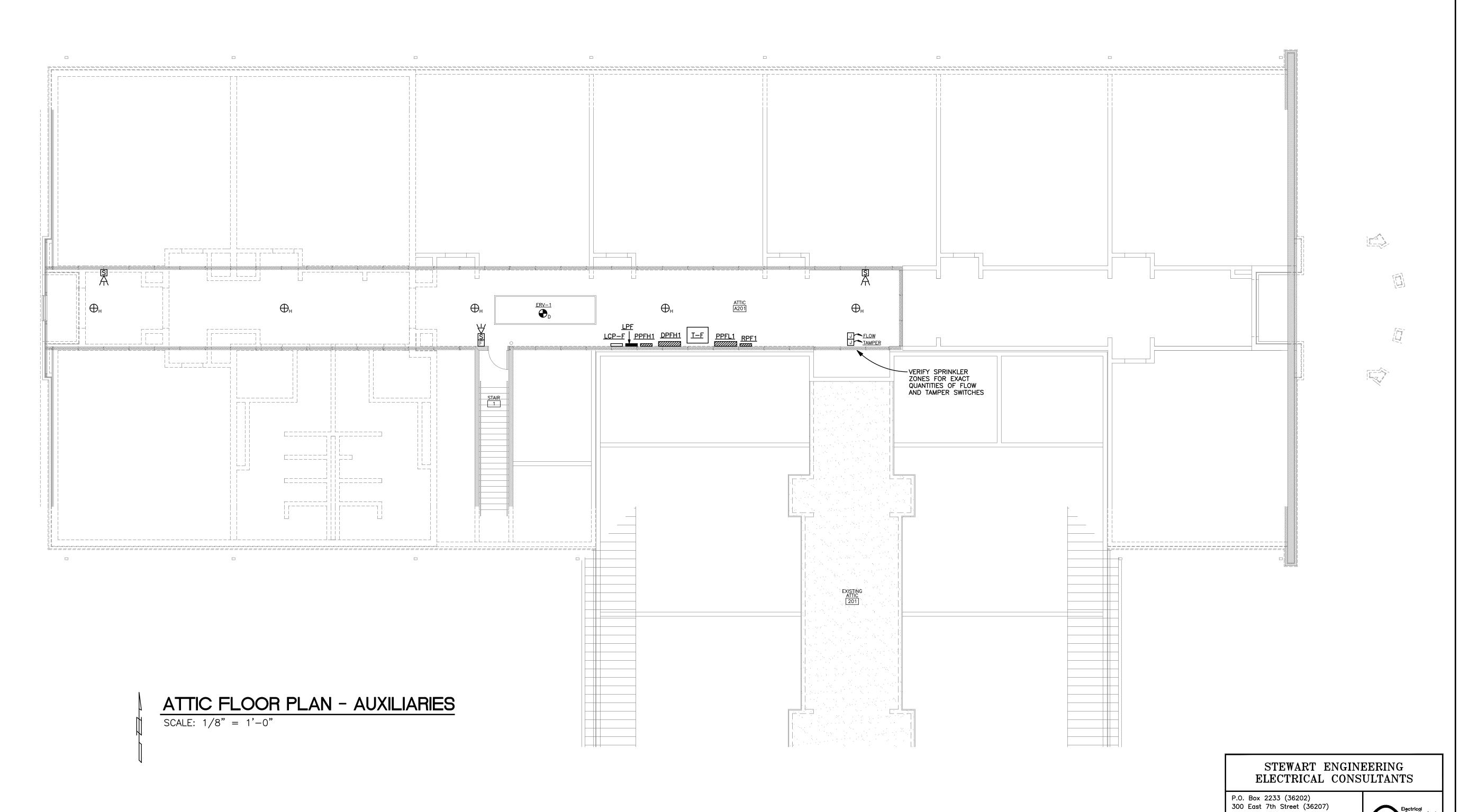
SHEET TITLE:

MAIN FLOOR PLAN -AUXILIARIES

PROJ. MGR.: LANCE JUNKIN DATE: JANUARY 31, 2023



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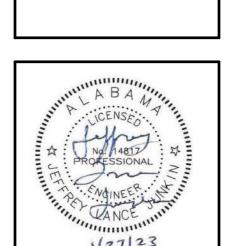


LATHAN ARCHITECTS

ASSROOM ADDITION TO

NCOLN HIGH SCHOOL

89 AL HIGHWAY 77, LINCOLN, ALABAMA 35096
LADEGA COUNTY BOARD OF EDUCATION



SHEET TITLE:

ATTIC FLOOR PLAN — AUXILIARIES

PROJ. MGR.: LANCE JUNKIN
DRAWN: SEC
DATE: JANUARY 31, 2023
REVISIONS

JOB NO. **22-20**

E5.2

Anniston, Alabama

Phone: 256/237-0891 Fax No.: 256/237-1077

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J. Lance Junkin, P.E. Alabama Reg. 14817 <u>Project Number:</u>

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