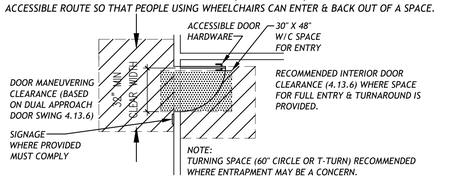
THE FOLLOWING CODES HAVE BEEN USED TO OUTLINE ACCESSIBILITY GUIDELINES CONTAINED WITHIN THIS SHEET. WHERE THERE IS A CONFLICT BETWEEN TWO OR MORE CODES, THE MOST STRINGENT REQUIREMENT HAS BEEN USED (DEPENDENT ON APPROVAL BY ADMINISTRATIVE AUTHORITY ADOPTING THESE STANDARDS).

- 2009 ICC/ANSI A117.1 ALL REFERENCE NUMBERS REFER TO ANSI A117.1 EXCEPT AS NOTED.
- *2010 ADA Standards for Accessible Design (SHOWN IN ITALICS)*
- 2012 INTERNATIONAL BUILDING CODE (CHAPTER 11, ETC.)
- 2012 NFPA 101 LIFE SAFETY CODE (7.5.4, ETC.)
- 2012 INTERNATIONAL ENERGY CONSERVATION CODE

104 CONVENTIONS

104.2 DIMENSIONS THAT ARE NOT STATED AS "MAXIMUM" OR "MINIMUM" ARE ABSOLUTE.
ALL DIMENSIONS ARE SUBJECT TO CONVENTIONAL INDUSTRY TOLERANCES.
[104.1.1] ADA Standards DIMENSIONAL TOLERANCES. ADA Standards RECOGNIZES CONVENTIONAL INDUSTRY TOLERANCES FOR FIELD CONDITIONS EXCEPT WHERE STATED AS A RANGE. THIS APPLIES TO THE FIELD WORK, NOT THE DESIGN WORK.
RECOMMENDATION: AVOID SPECIFYING PRECISELY TO MAX. OR MIN. TO FALL WITHIN ADA Standards REQUIREMENTS.
[203.9] 2010 ADA Standards- EMPLOYEE WORK AREAS- SEE 206.2.8, 207.1 & 215.3

PUBLIC OR COMMON USE AREAS MUST BE FULLY ACCESSIBLE. ACCESS IS REQUIRED TO, NOT FULLY WITHIN, WORK AREAS, IN PART BECAUSE ACCESS FOR DISABLED EMPLOYEES IS MADE WHEN THE NEED ARISES. EMPLOYEE SPACES FOR OTHER THAN JOB RELATED TASKS (BREAKROOMS, LOUNGES, PARKING, ETC.) ARE "COMMON USE" & MUST BE FULLY ACCESSIBLE. WORK AREAS THAT FUNCTION AS PUBLIC USE SPACES MUST BE FULLY ACCESSIBLE FOR PUBLIC ACCESS.
WORK AREAS MUST BE ACCESSIBLE FOR "APPROACH, ENTRY & EXIT," WHICH MEANS LOCATION ON AN ACCESSIBLE ROUTE SO THAT PEOPLE USING WHEELCHAIRS CAN ENTER & BACK OUT OF A SPACE.



RECOMMENDATIONS: SPACE FOR TURNING WITHIN THE WORK AREA & INTERIOR MANEUVERING CLEARANCES AT DOORS, WHILE NOT REQUIRED, SHOULD BE CONSIDERED, ESPECIALLY WHERE ENTRAPMENT MAY BE A CONCERN (I.E., ENTRY DOORS W/ CLOSERS); INTERIOR DOOR CLEARANCES ARE RECOMMENDED WHERE SPACE FOR FULL ENTRY & TURNING IS AVAILABLE WITHIN A WORK AREA.

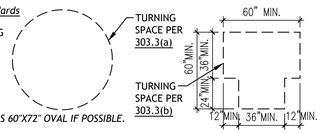
301.2 OVERLAP UNLESS OTHERWISE SPECIFIED, CLEAR FLOOR SPACES, CLEARANCES AT FIXTURES, MANEUVERING CLEARANCES AT DOORS & TURNING SPACES SHALL BE PERMITED TO OVERLAP.

302 FLOOR SURFACES *[302] ADA Standards*

302.2 CARPET OR CARPET TILE SHALL BE FIRM W/ FIRM OR NO PAD. CARPET SHALL BE LEVEL LOOP, ETC. 1/2" MAX. IN HEIGHT. EXPOSED EDGES SHALL COMPLY WITH 303.
302.3 OPENINGS IN FLOOR SURFACES SHALL NOT ALLOW PASSAGE OF 1/2"Ø SPHERE. SOME SECTIONS PLACE ELONGATED OPENINGS WITH LONG DIMENSION PERPENDICULAR TO DOMINANT DIRECTION OF TRAVEL.

304 TURNING SPACE *[304] ADA Standards*

304.2 FLOOR SURFACES OF TURNING SPACE SHALL SLOPE 1:48 MAX.
304.3 TURNING SPACES SHALL COMPLY WITH:
304.3.1 CIRCULAR SPACE OR
304.3.2 T-SHAPED SPACE



[4.2.3] ADA Standards RECOMMENDS 60"X72" OVAL IF POSSIBLE.

307 PROTRUDING OBJECTS *[307]ADA Standards*

307.2 OBJECTS WITH LEADING EDGES MORE THAN 27 INCHES & NOT MORE THAN 80 INCHES ABOVE THE FLOOR SHALL PROTRUDE 4" MAX. INTO CIRCULATION SPACE.
307.3 OBJECTS ON POST OR PYLONS SHALL BE PERMITTED TO OVERHANG 4" MAX. WHERE MORE THAN 27 INCHES & NOT MORE THAN 80 INCHES ABOVE THE FLOOR. OBJECTS ON MULTIPLE POSTS OR PYLONS WHERE THE CLEAR DISTANCE BETWEEN POSTS OR PYLONS IS GREATER THAN 12" SHALL HAVE THE LOWEST EDGE OF SUCH OBJECT EITHER 27 INCHES MAX. OR 80 INCHES MIN. ABOVE THE FLOOR.
307.4 GUARDRAILS OR OTHER BARRIERS SHALL BE PROVIDED WHERE OBJECT PROTRUSION IS BEYOND LIMITS ALLOWED BY 307.2 & 307.3 & WHERE VERTICAL CLEARANCE IS LESS THAN 80 INCHES ABOVE FLOOR. LEADING EDGE OF SUCH GUARDRAIL SHALL BE 27 INCHES MAX. ABOVE FLOOR.
307.5 PROTRUDING OBJECTS SHALL NOT REDUCE THE CLEAR WIDTH REQUIRED FOR ACCESSIBLE ROUTES.

402 ACCESSIBLE ROUTES *[206 & 402]ADA Standards*

[206.2.1] ADA Standards. SITE ARRRIVAL POINTS: AT LEAST ONE ACCESSIBLE ROUTE SHALL BE PROVIDED WITHIN THE SITE FROM ACCESSIBLE PARKING SPACES & LOADING ZONES.

[206.2.2] ADA Standards. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDINGS, FACILITIES, ELEMENTS, & SPACES THAT ARE ON THE SAME SITE.
RECOMMENDATION: ACCESSIBLE ROUTES CAN CROSS VEHICULAR WAYS BUT IT IS RECOMMENDED THAT THEY BE MARKED AS A PEDESTRIAN CROSSING.

1104.1 IBC SITE ARRIVAL POINTS. ACCESSIBLE ROUTES WITHIN THE SITE SHALL BE PROVIDED FROM PUBLIC TRANSPORTATION STOPS; ACCESSIBLE PARKING; ACCESSIBLE PASSENGER LOADING ZONES; AND PUBLIC STREETS OR SIDEWALKS TO THE ACCESSIBLE BUILDING SERVED.
EXCEPTION: AN ACCESSIBLE ROUTE SHALL NOT BE REQUIRED BETWEEN ARRIVAL POINTS & THE BUILDING OR FACILITY ENTRANCE IF THE ONLY MEANS OF ACCESS BETWEEN THEM IS A VEHICULAR WAY NOT PROVIDING FOR PEDESTRIAN ACCESS.

1104.2 IBC WITHIN A SITE. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDINGS, ACCESSIBLE FACILITIES, ACCESSIBLE ELEMENTS & ACCESSIBLE SPACES THAT ARE ON THE SAME SITE.
EXCEPTION: AN ACCESSIBLE ROUTE IS NOT BE REQUIRED BETWEEN ACCESSIBLE BUILDINGS, ACCESSIBLE FACILITIES, ACCESSIBLE ELEMENTS & ACCESSIBLE SPACES THAT HAVE AS THE ONLY MEANS OF ACCESS BETWEEN THEM A VEHICULAR WAY NOT PROVIDING FOR PEDESTRIAN ACCESS.

1105.1 IBC PUBLIC ENTRANCES. IN ADDITION TO REQUIRED ACCESSIBLE ENTRANCES, AT LEAST 60% OF ALL PUBLIC ENTRANCES SHALL BE ACCESSIBLE.
EXCEPTIONS: 1. ACCESSIBLE ENTRANCE NOT REQUIRED TO AREAS NOT REQUIRED TO BE ACCESSIBLE.
2. LOADING & SERVICE ENTRANCES THAT ARE NOT THE ONLY ENTRANCE TO A TENANT SPACE.

1007.1 IBC ACCESSIBLE MEANS OF EGRESS REQUIRED WHERE MORE THAN ONE MEANS OF EGRESS IS REQUIRED FROM ANY ACCESSIBLE SPACE, EACH ACCESSIBLE PORTION OF THE SPACE SHALL BE SERVED BY NOT LESS THAN TWO ACCESSIBLE MEANS OF EGRESS. SEE *[206.2.1, 206.2.2] ADA Standards.*

1007.2 IBC CONTINUITY & COMPONENTS, EXCEPTION 1: WHERE THE EXIT DISCHARGE IS NOT ACCESSIBLE, PROVIDE AN EXTERIOR AREA OF ASSISTANCE PER 1007.7

1007.7 IBC EXTERIOR AREA FOR ASSISTED RESCUE: SHALL BE OPEN TO OUTSIDE AIR & MUST HAVE TWO 30" X 48" WHEELCHAIR SPACES FOR EACH 200 OCCUPANTS.
1007.6.1 IBC WHEELCHAIR SPACES SHALL NOT REDUCE REQUIRED MEANS OF EGRESS WIDTH. ACCESS TO WHEELCHAIR SPACES SHALL NOT BE BLOCKED BY MORE THAN ONE ADJOINING WHEELCHAIR SPACE.
1007.7.2 IBC ASSOCIATED STAIRWAYS SHALL HAVE 48" CLEAR BETWEEN HANDRAILS (7.2.12.2.3 NFPA 101).

402.2 COMPONENTS. ACCESSIBLE ROUTES SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING: WALKING SURFACES WITH A SLOPE NOT STEEPER THAN 1:20, DOORS & DOORWAYS, RAMPS, CURB RAMPS EXCLUDING THE FLARED SIDES, ELEVATORS & PLATFORM LIFTS. *[402.2] ADA Standards.*

403.3 THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20. THE CROSS SLOPE OF A WALKING SURFACE SHALL NOT BE STEEPER THAN 1:48. *[403.3] ADA Standards.*

403.5.2 PASSING SPACE. ACCESSIBLE ROUTES WITH CLEAR WIDTH OF LESS THAN 60" SHALL HAVE A 60"X60" PASSING SPACE EVERY 200' MAX. OR PROVIDE T-SHAPED SPACE PER 340.3.2 W/ 48" MIN. BASE & ARMS. *[403.5.3]ADA Standards*

TABLE 403.5 CLEAR WIDTH OF AN ACCESSIBLE ROUTE *[403.5] ADA Standards*

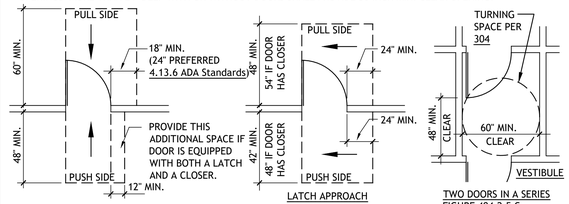
SEGMENT LENGTH	SEGMENT WIDTH
≤ 24 INCHES	32 INCHES*
> 24 INCHES	36 INCHES

* CONSECUTIVE SEGMENTS OF 32 INCHES IN WIDTH MUST BE SEPARATED BY A ROUTE SEGMENT 48 INCHES IN LENGTH & 36 INCHES MIN. IN WIDTH.

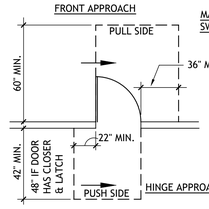
404 DOORS *[404] ADA*

404.2.2 DOUBLE-LEAF DOORS & GATES SHALL HAVE AT LEAST ONE ACTIVE LEAVE TO COMPLY W/ *404.2.3 and 404.2.4.*

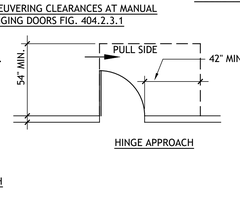
404.2.2 CLEAR WIDTH OF DOORS SHALL BE 32 INCHES MINIMUM MEASURED W/ DOOR OPEN 90°.
OPENINGS MORE THAN 24" DEEP WITH OR WITHOUT A DOORS SHALL PROVIDE 36 INCH MIN. CLEAR OPENING.
404.2.3 MANEUVERING CLEARANCE AT DOORS *[404.2.4.1] ADA*
CLEAR WIDTH OF DOORS SHALL BE 32 INCHES MINIMUM MEASURED W/ DOOR OPEN 90°.
OPENINGS MORE THAN 24" DEEP WITH OR WITHOUT DOORS SHALL PROVIDE 36 INCH MIN. CLEAR OPENING.



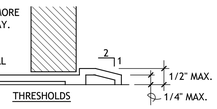
FRONT APPROACH



MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS FIG. 404.2.3.1



404.2.4 THRESHOLDS: THE FLOOR OR LANDING SHALL NOT BE MORE THAN 1/2 INCH LOWER THAN THE THRESHOLD OF THE DOOR WAY.
303.2 CHANGE IN LEVEL OF 1/4 INCH MAX. IN HEIGHT SHALL BE PERMITTED TO BE VERTICAL.
303.3 CHANGE IN LEVEL BETWEEN 1/4 INCH AND 1/2 INCH SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.

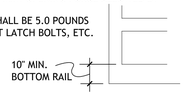


404.2.6 LATCHES AND LOCKSETS: PROVIDE LEVER TYPE, PUSH- PULL OR PANIC TYPE HARDWARE 34 INCHES TO 48 INCHES ABOVE FLOOR.

404.2.7 DOOR CLOSERS SHALL BE ADJUSTED TO CLOSE FROM 90° TO 12° IN 5 SECONDS.

404.2.8 DOOR-OPENING FORCE. FIRE DOORS SHALL HAVE THE MIN. OPENING FORCE ALLOWED BY APPROPRIATE ADMINISTRATIVE AUTHORITY.
THE FORCE FOR OPENING DOORS OTHER THAN FIRE DOORS SHALL BE 5.0 POUNDS MAX. THIS DOES NOT APPLY TO FORCE REQUIRED TO RETRACT LATCH BOLTS, ETC.

404.2.9 DOOR SURFACES WITHIN 10 INCHES OF THE FLOOR SHALL BE SMOOTH ON THE PULL WIDTH OF PUSH SIDE (EXCEPT FOR SLIDING DOORS).



405 RAMPS

106 RAMP: A WALKING SURFACE THAT HAS A RUNNING SLOPE STEEPER THAN 1:20.

405.2 RAMPS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12.

405.3 CROSS SLOPE OF RAMP RUNS SHALL BE NOT STEEPER THAN 1:48.

405.5 CLEAR WIDTH OF RAMP RUN SHALL BE 36" MIN. WHERE HANDRAILS ARE PROVIDED, CLEAR WIDTH SHALL BE MEASURED BETWEEN HANDRAILS(1010.51 IBC). (CLEAR WIDTH OF EGRESS RAMPS SHALL BE PER (1017.2 IBC) FOR CORRIDOR WIDTHS: 44" MIN. OR AS REQUIRED BY OCCUPANT LOAD PER (1005.1 IBC).

405.6 THE RISE FOR ANY RAMP SHALL BE 30" MAX.

405.7.1 LANDINGS SHALL HAVE A SLOPE NOT STEEPER THAN 1:48.

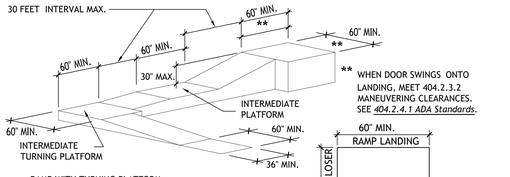
405.7.2 & 3 LANDINGS SHALL BE AT LEAST AS WIDE AS THE WIDEST RAMP & 60" MIN. IN LENGTH.

405.7.4 RAMPS THAT CHANGE DIRECTION AT RAMP LANDINGS SHALL HAVE A TURNING SPACE PER SECTION 304.3.

405.7.5 WHERE DOORWAYS ARE ADJACENT TO A RAMP LANDING, PROVIDE MANEUVERING CLEARANCES PER 404.2.3 & 404.3.2. WHERE DOORS ARE SUBJECT TO LOCKING, LANDING SHALL PROVIDE TURNING SPACE PER 304.3. *(SEE FIG. BELOW FOR 404.2.4.1 ADA Standards)*

405.8 RAMP RUNS WITH A RISE GREATER THAN 6" SHALL HAVE HANDRAILS PER SECTION 505.

405.9.1 THE FLOOR SURFACE OF THE RAMP OR LANDING SHALL EXTEND 12 INCHES MIN. BEYOND INSIDE FACE OF RAILING OR:
405.9.2 A 4" HIGH CURB OR BARRIER SHALL BE PROVIDED THAT PREVENTS THE PASSAGE OF A 4" SPHERE WITHIN 4" OF THE FLOOR. A CONTINUOUS RAIL CAN ACT AS A CURB.



RAMP WITH TURNING PLATFORM

MAXIMUM ELEVATION CHANGE BETWEEN LANDINGS IS 30"

RAMPS

406 CURB RAMPS *RAMP LANDING AT DOOR 404.2.4.1 FIG.(h) &(i) ADA Standards*

(406.7 ADA Standards) CURB RAMPS ARE REQUIRED WHEREVER AN ACCESSIBLE ROUTE CROSSES A CURB.
406.6 CURB RAMPS & THE FLARED SIDES OF CURB RAMPS SHALL BE LOCATED SO THEY DO NOT PROJECT INTO VEHICULAR TRAFFIC LANES, PARKING SPACES, OR PARKING ACCESS AISLES. CURB RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES.

406.3 CURB RAMPS SHALL BE 36 INCHES MINIMUM IN WIDTH EXCLUSIVE OF FLARED SIDES.

FIG. 406.3 A LEVEL LANDING 3 FEET DEEP MIN. SHALL BE PROVIDED AT THE UPPER END OF EACH CURB RAMP OVER ITS FULL WIDTH.

406.5/ 302.1 THE SURFACE OF EACH CURB RAMP AND ITS FLARED SIDES SHALL BE STABLE, FIRM AND SLIP RESISTANT.

406.8 CURB RAMPS SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCTION BY PARKED CARS.

406.10 DIAGONAL OR CORNER-TYPE CURB RAMPS WITH RETURNED CURBS OR OTHER WELL-DEFINED EDGES SHALL HAVE THE EDGES PARALLEL TO THE DIRECTION OF PEDESTRIAN FLOW. THE BOTTOMS OF DIAGONAL CURB RAMPS SHALL HAVE 48 INCHES MINIMUM CLEAR SPACE. DIAGONAL CURB RAMPS PROVIDED AT MARKED CROSSINGS SHALL PROVIDE THE 48 " MIN. CLEAR SPACE WITHIN THE MARKINGS. DIAGONAL CURB RAMPS HAVING FLARED SIDES SHALL ALSO HAVE AT LEAST A 24 INCH LONG SEGMENT OF STRAIGHT CURB LOCATED ON EACH SIDE OF THE CURB RAMP AND WITHIN THE MARKED CROSSING.

406.11 RAISED ISLANDS IN CROSSINGS SHALL BE A CUT-THROUGH LEVEL WITH THE STREET OR HAVE CURB RAMPS AT BOTH SIDES. EACH CURB RAMP SHALL HAVE A LEVEL AREA 48 INCHES AND 36 INCHES MIN. IN WIDTH AT THE TOP OF THE CURB RAMP IN THE PART OF THE ISLAND INTERSECTED BY THE CROSSING. EACH 48" X 36" AREA SHALL BE ORIENTED SO THE 48" LENGTH IS IN THE DIRECTION OF THE RUNNING SLOPE OF THE CURB RAMP IT SERVES.

406.12 MARKED CROSSING RAISED TO SIDEWALK LEVEL SHALL BE PRECEDED BY 24 INCH DEEP DETECTABLE WARNINGS FULL WIDTH OF MARKED CROSSING PER 705.

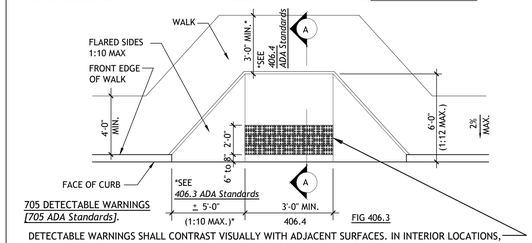
406.13 DETECTABLE WARNINGS SHALL BE 24 INCHES MIN. IN DIRECTION OF TRAVEL & FULL WIDTH OF CURB RAMP OR FLUSH SURFACE. EDGE NEAREST CURB SHALL BE 6 TO 8 INCHES FROM CURB LINE.

DOT REG AT 23 CFR 27.3 CITING TO 23 CFR PART 37, APP. A, MODIFICATIONS TO THE 2004 ADA Standards INFERS THE FOLLOWING:

WHERE DETECTABLE WARNINGS ARE NOT REQUIRED: FOR DRIVEWAYS AND PARKING LOTS ON SITES AND FACILITIES.

WHERE DETECTABLE WARNINGS ARE REQUIRED: 1. FOR PLATFORM EDGES AT TRANSPORTATION FACILITIES, AND

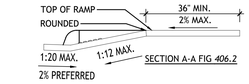
2. FOR CROSSINGS OF ROADWAYS AND SIGNALIZED DRIVEWAYS WITHIN THE PUBLIC RIGHTS OF WAY.



705 DETECTABLE WARNINGS *[705 ADA Standards].*

DETECTABLE WARNINGS SHALL CONTRAST VISUALLY WITH ADJACENT SURFACES. IN INTERIOR LOCATIONS, SHALL DIFFER FROM ADJOINING SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT.
TRUNCATED DOMES SHALL HAVE A BASE DIAMETER OF .9" MIN. TO 1.4" MAX. & A TOP DIAMETER OF 50% MIN. TO 65% MAX. OF THE BASE DIAMETER. TRUNCATED DOMES SHALL HAVE A HEIGHT OF .2 INCH. TRUNCATED DOMES SHALL HAVE A CENTER TO CENTER SPACING OF 1.6" MIN. & 2.4" MAX. & A BASE TO BASE SPACING OF .65" MIN., ALIGNED IN SQUARE GRID PATTERN.

PAVERS SHALL BE ADA COMPLIANT EQUAL TO BRICKSTONE-ADA CONPAVE CONCRETE UNITS W/ INTEGRAL COLOR PER BLOCK USA 800-239-7421. http://www.specblockusa.com/index/brickstone-ada. INSTALL PER MANUF. INSTRUCTIONS.



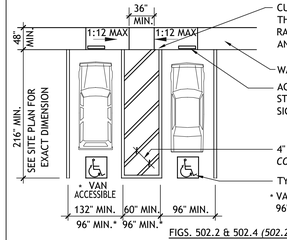
501 PARKING (SEE ALSO TABLE 1106.1 2012 IBC)

LOT TOTAL	TOTAL ACCESSIBLE
1- 25	1
26- 50	2
51- 75	3
76- 100	4
101- 150	5
151- 200	6
201- 300	7
301- 400	8
401- 500	9
501- 1000	2% OF TOTAL
1001 & OVER	20, PLUS 1 FOR EACH 100, OR FRACTION THEREOF OVER 1000

502.5 ACCESSIBLE PARKING SPACES & ACCESS AISLES SHALL HAVE SURFACE SLOPES NOT STEEPER THAN 1:48. (*502.5 ADA Standards*). ACCESS AISLES SHALL BE AT THE SAME LEVEL AS THE SPACES THEY SERVE.

502.7 ACCESSIBLE PARKING SPACES SHALL BE IDENTIFIED BY PERMANENTLY AFFIXED SIGNS W/ NONGLARE FINISH DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY (*703.6.3.1*) *(703.7.2.1 ADA Standards)*, CONTRASTING WITH THEIR BACKGROUNDS. THE BOTTOM OF THE SIGN SHALL BE AT A MINIMUM HEIGHT OF 60 INCHES FROM THE PARKING SPACE FINISHED GRADE.

IN ADDITION TO THE ABOVE REQUIREMENTS, THE SURFACE OF EACH PARKING SPACE SHALL HAVE A SURFACE IDENTIFICATION, 3 FEET SQUARE, DUPLICATING THE SYMBOL OF ACCESSIBILITY IN BLUE PAINT, LOCATED SO THAT THE SYMBOL CAN BE SEEN WHILE A VEHICLE IS PARKED IN THE SAME SPACE (SEE LOCAL CODES).



CURB RAMP REQUIRED WHEN WALK IS DIFFERENT LEVEL THAN PARKING ELEVATION. SEE *406 ADA Standards* CURB RAMPS. DETECTABLE WARNINGS TO COMPLY WITH 406.14 AND SECTION 705.

WALK

ACCESSIBLE PARKING SIGN AT EACH ACCESSIBLE STALL, TYP. PROVIDE ALSO "VAN ACCESSIBLE" SIGN AT VAN ACCESSIBLE STALLS 502.7.

4" WIDE STRIPES 36" O.C. TYP.(SUGGESTED- *SEE LOCAL CODES FOR METHOD & COLOR OF STRIPING*)

TYPICAL SYMBOL (SEE LOCAL CODES)

* VAN SPACES SHALL BE 132" WIDE W/ 60" AISLE OR 96" WIDE W/ 96" AISLE 502.2.

FIGS. 502.2 & 502.4 *(502.2 & 502.3 ADA Standards)*

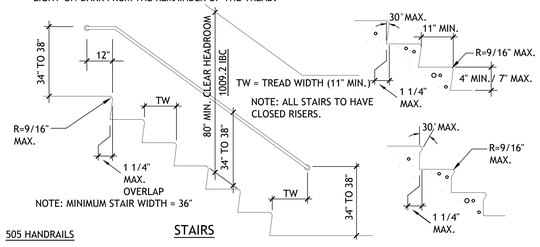
504 STAIRWAYS (SECTION 1009 OF 2009 IBC) *(504 ADA Standards)*

504.2 RISERS SHALL BE 4" MIN. & 7" MAX. HEIGHT. TREADS TO BE 11" MIN. DEPTH. (1009.4.2 IBC, *504.2 ADA Standards*)

504.3 OPEN RISERS SHALL NOT BE PERMITTED.

504.4 TREADS SHALL NOT SLOPE STEEPER THAN 1:48.

1009.7.5 2012 IBC NOSINGS. LEADING EDGE SHALL HAVE 9/16" MAX. RADIUS. CURVE OR BEVEL PROJECTING NOSINGS.
RISER SLOPE=30° MAX. FROM VERTICAL.
NOSING PROJECTIONS= 1 1/4" MAX PER 1009.7.5.1 2012 IBC
504.5 THE LEADING 2" OF THE TREAD SHALL HAVE VISUAL CONTRAST OF DARK-ON-LIGHT OR LIGHT-ON-DARK FROM THE REMAINDER OF THE TREAD.



505 HANDRAILS

505.2 HANDRAILS SHALL BE PROVIDED ON BOTH SIDES OF STAIRS & RAMPS.

505.3 HANDRAILS SHALL BE CONTINUOUS WITHIN THE FULL LENGTH OF EACH STAIR FLIGHT OR RAMP RUN.

505.4 TOP OF HANDRAIL GRIPPING SURFACES SHALL BE 34 INCHES MIN. & 38 INCHES MAX. VERTICALLY ABOVE STAIR NOSINGS, RAMP SURFACES, ETC. (*AT ELEMENTARY SCHOOLS, ETC., A 2ND SET OF HANDRAILS ARE SUGGESTED AT 28" MAX. WITH 9" MIN. CLEARANCE BETWEEN UPPER & LOWER RAILS.*)

505.5 CLEARANCE BETWEEN HANDRAIL & ADJACENT SURFACES SHALL BE 1 1/2 INCHES MIN. (7.2.2.4.4.5 2012 NFPA 101 REQUIRES 2 1/4" CLEARANCE.)

505.7.1 CIRCULAR CROSS SECTION HANDRAILS SHALL BE 1 1/4 INCHES TO 2 INCHES IN DIAMETER.

505.7.2 NONCIRCULAR CROSS SECTION HANDRAILS SHALL HAVE A PERIMETER OF 4 INCHES MIN. & 6 1/4 INCHES MAX.

505.9 HANDRAILS SHALL NOT ROTATE IN THEIR FITTINGS.

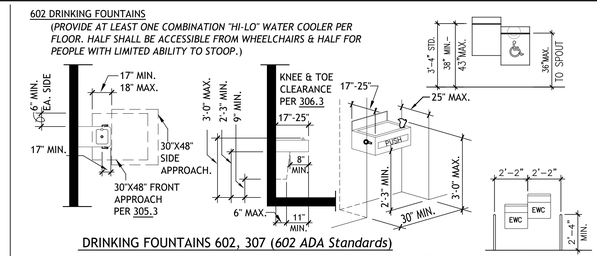
505.10.1 TOP & BOTTOM RAMP HANDRAILS SHALL EXTEND ABOVE THE LANDING HORIZONTALLY 12" MIN. BEYOND THE TOP & BOTTOM OF RAMP RUNS.

505.10.2 TOP EXTENSION @ STAIRS SHALL EXTEND ABOVE THE LANDING HORIZONTALLY 12" MIN. BEGINNING DIRECTLY ABOVE THE LANDING NOSING. EXTENSIONS SHALL RETURN TO WALL, GUARD OR LANDING SURFACE OR SHALL BE CONT. TO HANDRAILS OF ADJACENT STAIR FLIGHT.

505.10.3 BOTTOM EXTENSION @ STAIRS SHALL EXTEND @ THE SLOPE OF THE STAIRS FLIGHT FOR A HORIZONTAL DISTANCE EQUAL TO TO ONE TREAD DEPTH BEYOND THE BOTTOM TREAD NOSING. EXTENSIONS SHALL RETURN TO WALL, GUARD OR LANDING SURFACE OR SHALL BE CONT. TO HANDRAILS OF ADJACENT STAIR FLIGHT.

602 DRINKING FOUNTAINS

(PROVIDE AT LEAST ONE COMBINATION "HI-LO" WATER COOLER PER FLOOR. HALF SHALL BE ACCESSIBLE FROM WHEELCHAIRS & HALF FOR PEOPLE WITH LIMITED ABILITY TO STOOP.)



DRINKING FOUNTAINS 602, 307 (*602 ADA Standards*)

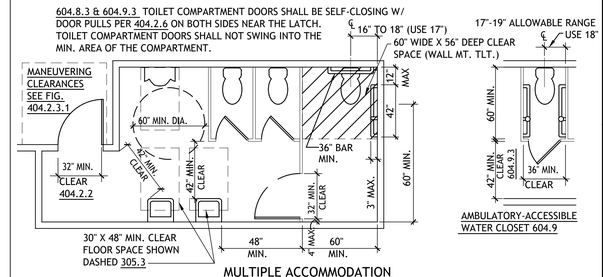
IF DRINKING FOUNTAINS ARE NOT IN ALCOVE, OR IF THEY EXTEND MORE THAN 4" OUT OF ALCOVE, ADD RAILING OR SCREEN WALL TO COMPLY W/ 307.2

603 TOILET & BATHING ROOMS

603.2 TOILET & BATHING ROOM TURNING SPACE SHALL BE PER 304. CLEAR SPACES SHALL BE PERMITTED TO OVERLAP. DOORS SHALL NOT SWING INTO CLEAR FLOOR SPACE OR CLEARANCE FOR ANY FIXTURE, EXCEPT IN SINGLE OCCUPANT TOILETS. DOORS MAY SWING INTO REQUIRED TURNING SPACE.

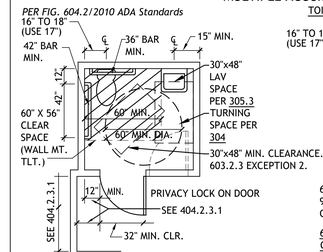
1109.2.2 IBC WHERE WATER CLOSET COMPARTMENTS ARE PROVIDED IN A TOILET, AT LEAST ONE SHALL BE WHEELCHAIR-ACCESSIBLE. WHERE COMBINED WATERCLOSETS & URINALS ARE 6 OR MORE, AT LEAST ONE AMBULATORY-ACCESSIBLE WATER CLOSET COMPARTMENT SHALL BE PROVIDED IN ADDITION TO THE WHEELCHAIR-ACCESSIBLE COMPARTMENT.

604.8.3 & 604.9.3 TOILET COMPARTMENT DOORS SHALL BE SELF-CLOSING W/ DOOR PULLS PER 404.2.6 ON BOTH SIDES NEAR THE LATCH. TOILET COMPARTMENT DOORS SHALL NOT SWING INTO THE MIN. AREA OF THE COMPARTMENT.



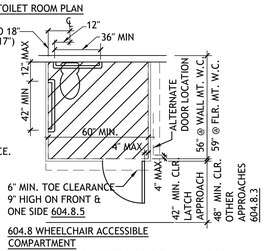
MULTIPLE ACCOMMODATION

PER FIG. 604.2/2010 ADA Standards



PRIVACY TOILET

TOILET ROOM PLAN


16" TO 18" (USE 17")
12"
36" MIN
42" MIN
ALTERNATE DOOR LOCATION
56" @ WALL MT. W.C.
59" @ FLR. MT. W.C.
60" MIN.
4" MAX

BUILDING DESCRIPTION:
• ONE STORY, SPRINKLED, FOUR TRUCK BAYS, 8 BUNK ROOMS • LOAD BEARING MASONRY WALLS • METAL TRUSS ROOF FRAMING • REINFORCED CONCRETE SLAB OVER VAPOR BARRIER ON POROUS FILL • MASONRY VENEER OVER CMU WALLS WITH RIGID INSULATION

APPLICABLE CODES:
2021 INTERNATIONAL EXISTING BUILDING CODE
2021 INTERNATIONAL PLUMBING CODE
2021 INTERNATIONAL MECHANICAL CODE
2021 INTERNATIONAL FUEL GAS CODE
2021 INTERNATIONAL FIRE CODE
2021 NATIONAL ELECTRCIAL CODE
2021 NATIONAL FIRE ALARM AND SIGNALING CODE (NFPA 72)
2020 ICC/NSSA–500 STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS
2021 ANSI/ASHRAE/IESNA STANDARD 90.1–2013 ENERGY STANDARD FOR BUILDINGS EXCEPT LOW–RISE RESIDENTIAL
2021 ADA STANDARDS FOR ACCESSIBLE DESIGN

INSPECTIONS DEPARTMENT:	
BUILDING OFFICIAL	JERRY DAILEY
BUILDING INSPECTOR	ALEX FORTENBERRY
FIRE MARSHAL	BLAKE HARBISON
DEPUTY FIRE MARSHAL/ CODE ENFORCEMENT	JOEY WINFREY
ADMINISTRATIVE CLERK	JENNIFER HUMBER

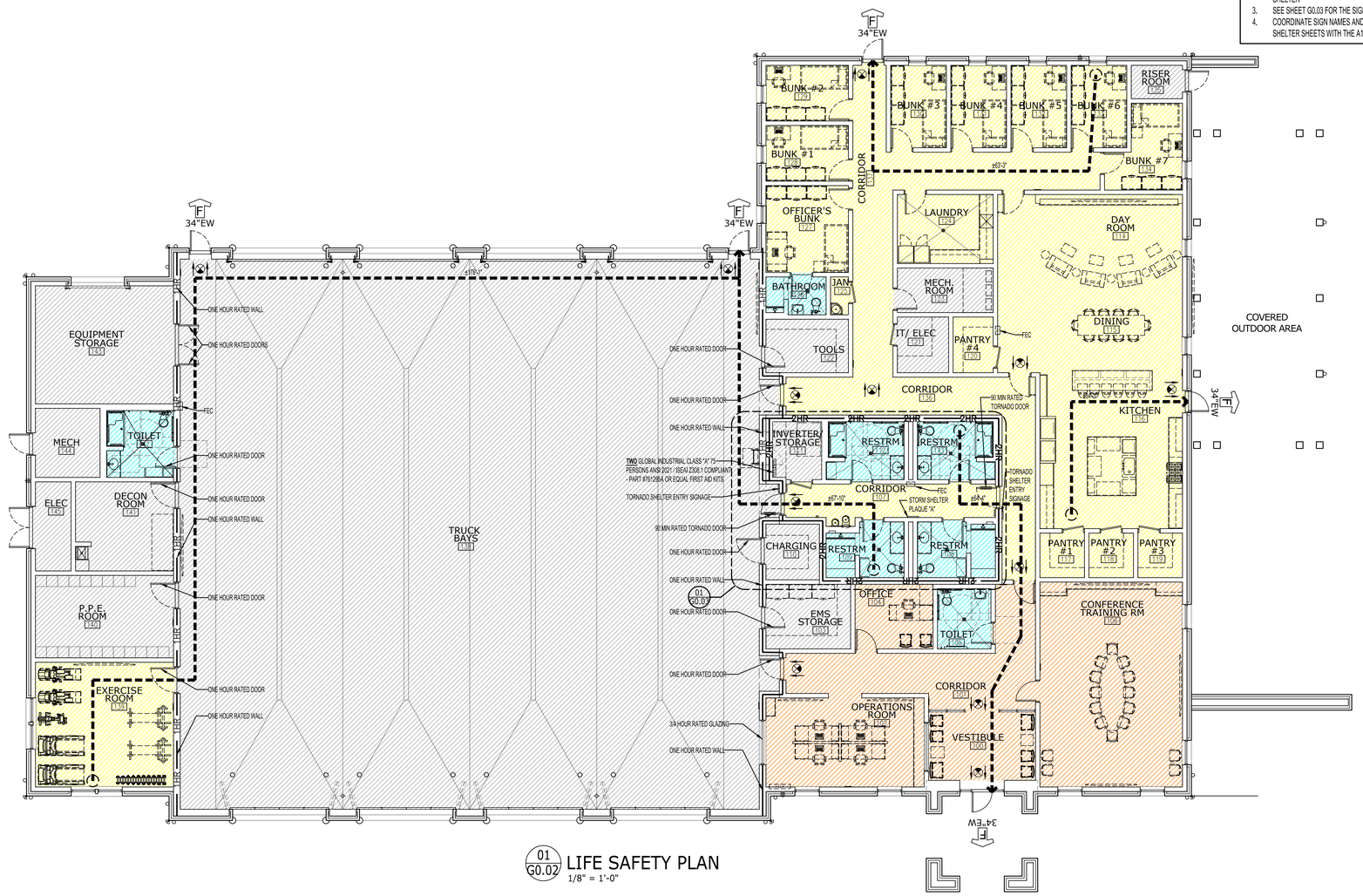
CODE STUDY:		
OCCUPANCY:	BUSINESS – GROUP B	
	RESIDENTIAL – GROUP R3	
	STORAGE – GROUP S2	
CONSTRUCTION TYPE:	V–B FULLY SPRINKLERED	
HEATED & COOLED SPACE	7,570 SF	
HEATED/ UNCONDITIONED SPACE	9,095 SF	
TOTAL BUILDING AREA	16,665 SF	
TABLE 504.4 ALLOWABLE HEIGHT/STORIES:	ALLOWABLE HEIGHT/STORIES:	ACTUAL HEIGHT/STORIES:
	60'/ 3 STORIES	35' MAX/ 1 STORY
TABLE 506.2 ALLOWABLE AREA:	36,000 SF	

OCCUPANT LOAD (TABLE 1004.5)		
USE:	AREA PER OCCUPANT:	PERSONS PER AREA:
BUSINESS	150 SF GROSS	4 OCCUPANTS
DORMITORIES	50 SF GROSS	11 OCCUPANTS
EXERCISE ROOMS	50 SF GROSS	7 OCCUPANTS
KITCHENS COMMERCIAL	200 SF GROSS	6 OCCUPANTS
LOCKER ROOMS	50 SF GROSS	10 OCCUPANTS
PARKING GARAGES	200 SF GROSS	35 OCCUPANTS
STORAGE/MECH AREAS/EQUIP. AREAS	300 SF GROSS	4 OCCUPANTS
TOTAL OCCUPANT LOAD		77 OCCUPANTS

MINIMUM REQ. EGRESS WIDTH (1005.3.2)			
TOTAL OCCUPANCY SERVED @ NEW ADDITION	INCHES PER OCCUPANT	INCHES REQUIRED	INCHES PROVIDED:
77 OCCUPANTS	0.2	15.4"	136"

MINIMUM PLUMBING FIXTURES REQUIRED (TABLE 403.1)			
77 OCCUPANTS		REQUIRED	PROVIDED
WATER CLOSETS	1/25 FOR THE 1ST 50 & 1/50 FOR THE REMAINDER EXCEEDING 50	2 WC – MENS 2 WC – WOMENS	2 WC – MENS 2 WC – WOMENS 3 WC – UNISEX
LAVATORIES	1/40 FOR THE 1ST 80 & 1/80 FOR THE REMAINDER EXCEEDING 80	1 LAVS – MENS 1 LAVS – WOMENS	2 LAVS – MENS 2 LAVS – WOMENS 3 LAVS – UNISEX
DRINKING FOUNTAINS	1/100		2
SERVICE SINK	1		1

ZONING:	PARKING:
• ZONED "RA" – RESIDENTIAL AGRICULTURE DISTRICT • MINIMUM 1 ACRE IN SIZE • 150' MIN LOT WIDTH • FRONT YARD SETBACK = 40' • REAR YARD SETBACK = 45' • SIDE YARD SETBACK = 25' • MAX HEIGHT OF STRUCTURE = 35' OR 2 1/2 STORIES • CONDITIONAL USE IS ALLOWED AS A "PUBLIC FACILITY"	• 30 SPACES PROVIDED • PARKING SPACES REQUESTED BY THE FIRE DEPARTMENT FOR THE PUBLIC AND FOR THE STAFF TAKING INTO ACCOUNT FUTURE GROWTH: – 12 STAFF SPACES – 18 EMPLOYEE SPACES



01 G0.02 LIFE SAFETY PLAN
1/8" = 1'-0"

SYMBOL LEGEND	
F 42"EW	EXIT WIDTH
FEC	FIRE EXTINGUISHER CABINET (PROVIDE FIRE RATED CABINET IN RATED WALLS)
FE	BRACKET MOUNTED FIRE EXTINGUISHER
	EXIT SIGN (ARROW INDICATES DIRECTION OF TRAVEL/SHADED AREA INDICATES FACE OF SIGNAGE
	TRAVEL PATH TO EXIT

WALL RATING LEGEND	
2HR 2HR	2 HOUR RATED WALL
1HR 1HR	1 HOUR RATED WALL

OCCUPANCY USE LEGEND	
	GROUP B – BUSINESS OCCUPANCY
	GROUP R3 – RESIDENTIAL OCCUPANCY
	GROUP S2 – STORAGE OCCUPANCY
	STORM SHELTER
	RESTROOMS

NOTES

1. SEE DETAIL 02 STORM SHELTER ACCESS PLAN ON SHEET G0.03 LIFE SAFETY FOR LOCATIONS OF STORM SHELTER SIGNAGE THROUGH OUT THE STATION OUTSIDE OF THE IMMEDIATE VICINITY OF THE STORM SHELTER
2. SEE DETAIL 01 ENLARGED STORM SHELTER PLAN FOR CLARIFICATIONS FOR SIGNAGE IN AND AROUND THE STORM SHELTER
3. SEE SHEET G0.03 FOR THE SIGNAGE TYPE AND DETAILS
4. COORDINATE SIGN NAMES AND LOCATIONS BETWEEN THE STORM SHELTER SHEETS WITH THE A11.0 SIGNAGE SHEET

STATE OF ALABAMA
Registered Architect
Blakeney S. Nelson
6153
Licensed Architect

ISSUED FOR:
BID / CONSTRUCTION DOCUMENTS
OCTOBER 31, 2024

A NEW FACILITY FOR:
Pell City
FIRE STATION #2
2911 MARTIN STREET SOUTH
CROPWELL, AL 35054

GREAT SEAL OF PELL CITY, ALABAMA

City of Pell City
1905 1st Avenue North
Pell City, AL 35125
(205) 338-2244

CMH ARCHITECTS
1800 International Park Drive
Suite 300
Birmingham, Alabama 35243
205/969-2696
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REVISIONS

SHEET TITLE
CODE STUDY & LIFE SAFETY PLAN

PROJECT NUMBER
1917

ISSUE DATE
10/31/2024

DRAWN BY
GH

CHECKED BY
BN

SHEET NUMBER
G0.02

FIRE STATION #2

PLOT DATE: 11/19/2024, 8:40 PM

TORNADO STORM SHELTER OCCUPANT DENSITY CALCULATION (2020 ICC 500 TABLE 502.3)	
USEABLE FLOOR AREA	614 SF
CALCULATIONS	614 SF / 5 SF PER OCCUPANT = 122.8 PERSONS = 123 OCCUPANTS 1 WHEEL CHAIR OCCUPANT FOR EVERY 200 PERSONS = 1 WHEEL CHAIR OCCUPANT
STORM SHELTER CAPACITY	123 OCCUPANTS (5 SF) + 1 WHEELCHAIR (10 SF) = 124 OCCUPANTS

TORNADO STORM SHELTER PLUMBING FIXTURES REQUIRED (2020 ICC 500 TABLE 702.3)			
124 OCCUPANTS	OCCUPANTS ≥ 50	REQUIRED	PROVIDED
WATER CLOSETS	1/250 FOR THE 1ST 500 OCCUPANTS & 1 ADDITIONAL/500 OCCUPANTS ≥ 500 OCCUPANTS	1 WC – MENS 1 WC – WOMENS	2 WC – MENS 2 WC – WOMENS
LAVATORIES	1/1000 OCCUPANTS	1 LAVS – MENS 1 LAVS – WOMENS	2 LAVS – MENS 2 LAVS – WOMENS

SYMBOL LEGEND

- F 42"EW — EXIT WIDTH
- FEC — FIRE EXTINGUISHER CABINET (PROVIDE FIRE RATED CABINET IN RATED WALLS)
- FE — BRACKET MOUNTED FIRE EXTINGUISHER
- EXIT SIGN (ARROW INDICATES DIRECTION OF TRAVEL/SHADED AREA INDICATES FACE OF SIGNAGE
- TRAVEL PATH TO EXIT

WALL RATING LEGEND

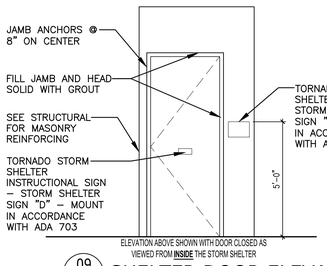
- 2HR — 2HR — 2 HOUR RATED WALL
- 1HR — 1HR — 1 HOUR RATED WALL

SHELTER LEGEND

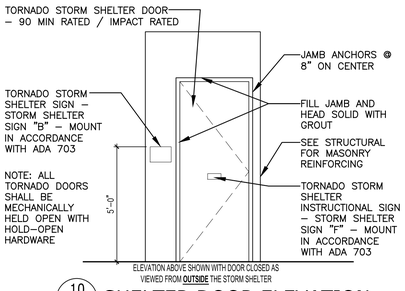
- STORM SHELTER
- TRAVEL DISTANCE

NOTES

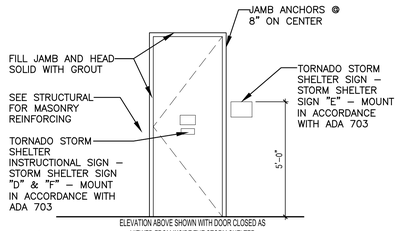
1. SEE DETAIL 02 STORM SHELTER ACCESS PLAN ON SHEET G0.03 LIFE SAFETY FOR LOCATIONS OF STORM SHELTER SIGNAGE THROUGH OUT THE STATION OUTSIDE OF THE IMMEDIATE VICINITY OF THE STORM SHELTER
2. SEE DETAIL 01 ENLARGED STORM SHELTER PLAN FOR CLARIFICATIONS FOR SIGNAGE IN AND AROUND THE STORM SHELTER
3. SEE SHEET G0.03 FOR THE SIGNAGE TYPE AND DETAILS
4. COORDINATE SIGN NAMES AND LOCATIONS BETWEEN THE STORM SHELTER SHEETS WITH THE A11.0 SIGNAGE SHEET



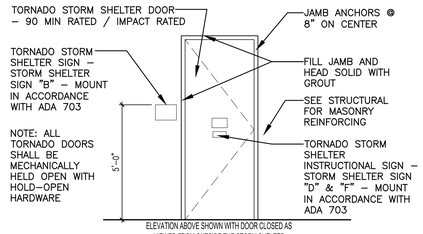
09 G0.03 SHELTER DOOR ELEVATION
3/8" = 1'-0"



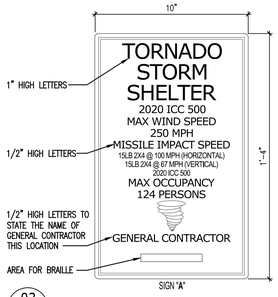
10 G0.03 SHELTER DOOR ELEVATION
3/8" = 1'-0"



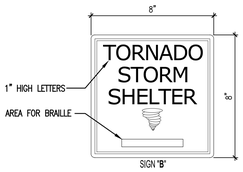
11 G0.03 SHELTER DOOR ELEVATION
3/8" = 1'-0"



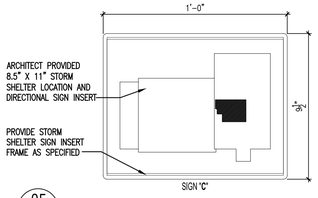
12 G0.03 SHELTER DOOR ELEVATION
3/8" = 1'-0"



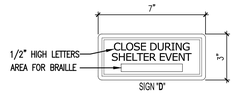
03 G0.03 STORM SHELTER PLAQUE
3" = 1'-0"



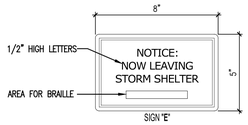
04 G0.03 STORM SHELTER SIGN
3" = 1'-0"



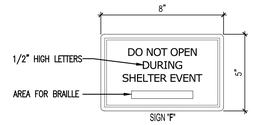
05 G0.03 STORM SHELTER SIGN
3" = 1'-0"



06 G0.03 STORM SHELTER INSTRUCTIONAL SIGN
3" = 1'-0"



07 G0.03 STORM SHELTER INSTRUCTIONAL SIGN
3" = 1'-0"

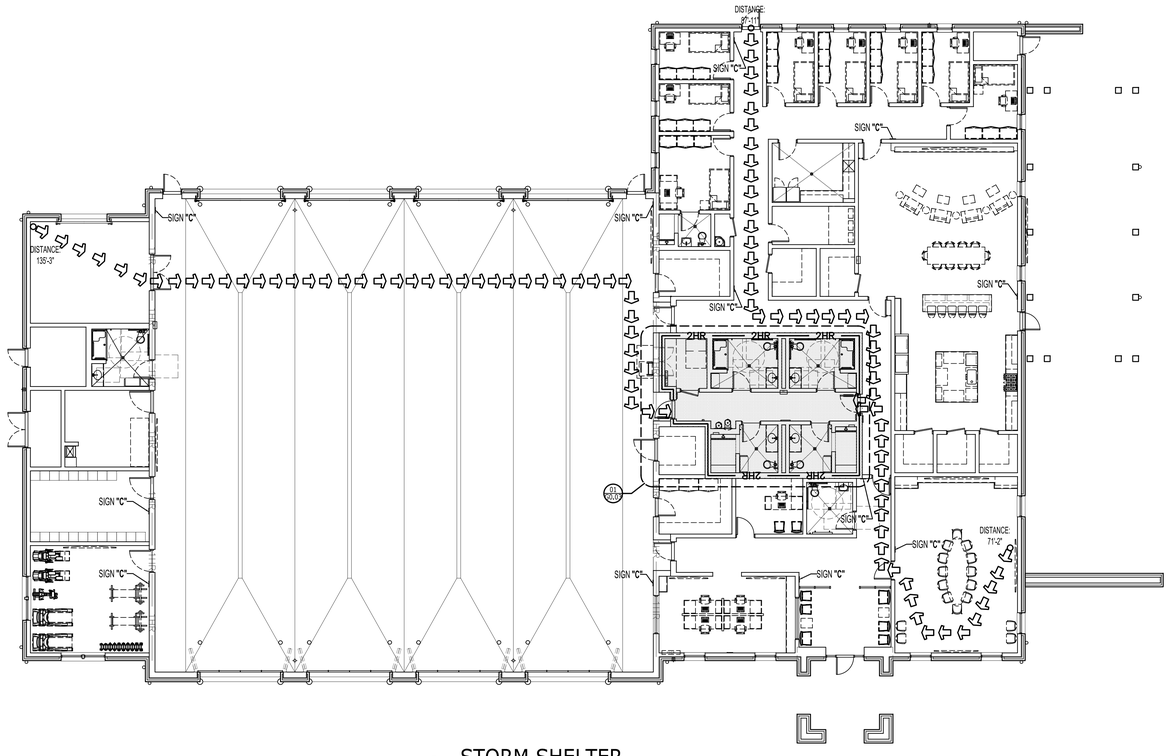


08 G0.03 STORM SHELTER INSTRUCTIONAL SIGN
3" = 1'-0"

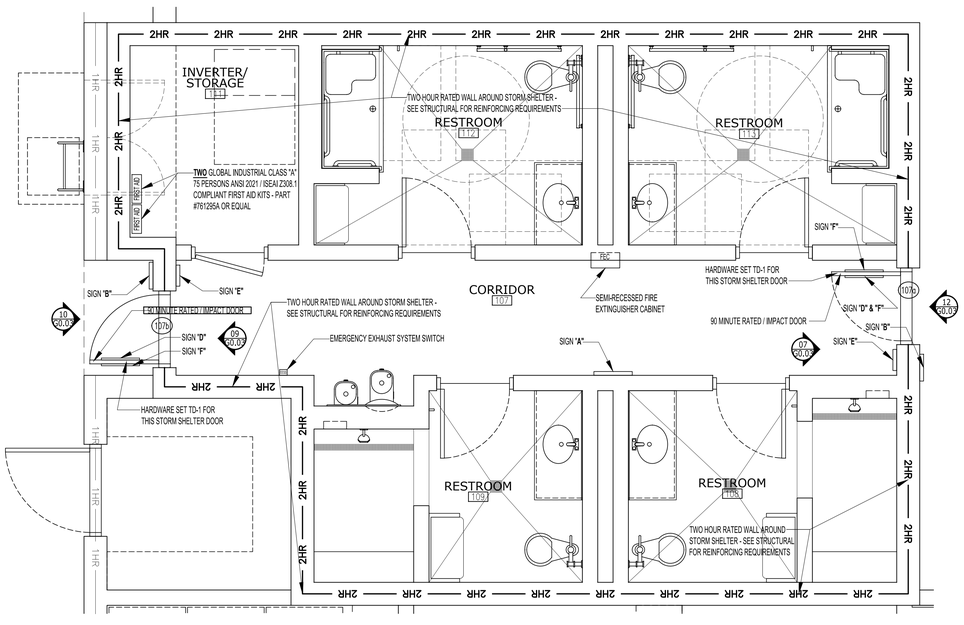
HARDWARE SET: TD-1
SINGLE 3'-0" X 7'-10" X 1 3/4" TORNADO RESISTANT STEEL DOOR & FRAME, WITH THE FOLLOWING HIGH IMPACT RATED DOOR HARDWARE:

EACH TO HAVE:			
4	HINGE	5BB1HW 4.5 X 4.5 NRP 630	IVE
1	MULT PT STOREROOM	LM9380T	SCH
1	FSIC CORE	23-030	SCH
1	SURFACE CLOSER	4111 SCUSH MC TBWMS	LCN
1	RAIN DRIP	142AA (AS REQ'D)	ZER
1	GASKETING	188FSBK PSA	ZER
1	DOOR SWEEP	8198AA	ZER
1	THRESHOLD	656A-223	ZER

DOORS, FRAMES, AND HARDWARE MUST BE SUPPLIED AS A COMPLETE SYSTEM, AS TESTED AND APPROVED, FOR COMPLIANCE WITH FEMA 361 AND ICC 500-2020 STANDARDS.



02 G0.03 STORM SHELTER ACCESS PLAN
3/32" = 1'-0"



01 G0.03 ENLARGED STORM SHELTER PLAN
3/8" = 1'-0"

STATE OF ALABAMA
Registered Architect
Blakeney S. Nelson
6153

ISSUED FOR:
BID / CONSTRUCTION DOCUMENTS
OCTOBER 31, 2024

A NEW FACILITY FOR:
Pell City
FIRE STATION #2
2911 MARTIN STREET SOUTH
CROPWELL, AL 35054

City of Pell City
1905 1st Avenue North
Pell City, AL 35125
(205) 338-2244

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REVISIONS

SHEET TITLE
CODE STUDY & LIFE SAFETY PLAN

PROJECT NUMBER
1917

ISSUE DATE
10/31/2024

DRAWN BY
GH

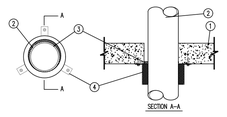
CHECKED BY
BN

SHEET NUMBER
G0.03

FIRE STATION #2

PLOT DATE: 11/19/2024 8:40 PM

System No. C-AJ-2109
F RATING – 3 HR
T RATINGS – 0, 2 & 3 HR (SEE ITEM 2)

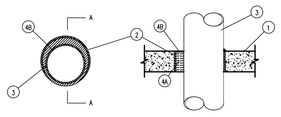


1. Floor or Wall Assembly – **Min 4-1/2 in. thick reinforced lightweight or normal weight (100–150 pcf) concrete.** Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 32 in. See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through-Penetrants – One nonmetallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The annular space between pipe and perimeter of opening shall be min 0 in. (point contact) to max 1/2 in. Pipe to be rigidly supported on both sides of floor or wall assembly. The T Ratings are dependent on the size and/or type of pipe as shown in the table below. The following types and sizes of nonmetallic pipes may be used:
   A. Polyvinyl Chloride (PVC) Pipe – **Nom 6 in. diam (or smaller) Schedule 40** solid-core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   B. Chlorinated Polyvinyl Chloride (CPVC) Pipe – **Nom 6 in. diam (or smaller)** SDR17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   C. Acrylonitrile Butadiene Styrene (ABS) Pipe – **Nom 6 in. diam (or smaller) Schedule 40** solid-core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   D. Flame Retardant Polypropylene (FRPP) Pipe – **Nom 6 in. diam (or smaller) Schedule 40** FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

Pipe Type	Nom Pipe Diam, in.
PVC, CPVC	
ABS, FRPP	1–1/2, 2, 3
PVC, CPVC	
ABS, FRPP	
PVC, CPVC	
ABS+, FRPP	
ABS++	

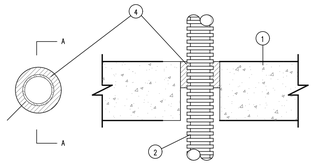
   + – Indicates solid core ABS only
   ++ – Indicates cellular core ABS only
3. Fill, Void or Cavity Material* – Sealant – **Min 1/2 in. thickness of fill material** applied within the annulus, flush with bottom surface of floor or with both surfaces of wall.
   HILTI, INC. – FS-ONE Sealant
4. Firestop Device* – Firestop Collar – Firestop collar shall be installed in accordance with the accompanying installation instructions. Collar to be installed and latched around the pipe and secured to both sides of floor or both sides of wall using the anchor hooks provided with the collar. (Minimum 2 anchor hooks for 1–1/2 and 2 in. diam pipes, 3 anchor hooks for 3 and 4 in. diam pipes, and 6 anchor hooks for 6 in. diam pipes). The anchor hooks are to be secured with 1/4 in. diam by min 1–1/2 in. long steel expansion bolts, or equivalent, in conjunction with steel nuts and min 3/4 in. diam steel washers with one anchor bolt in each anchor hook.
   HILTI CONSTRUCTION CHEMICALS, DIV OF
   HILTI, INC. – CP 643 50/1.5", CP 643 63/2"CP 643 90/3", CP 643 110/4" or CP 642 160/6" Firestop Collar
   *Bearing the UL Classification Marking

System No. C-AJ-1226
F RATING – 3–HR.
T RATING = 0–HR.
L Rating At Ambient – Less Than 1 CFM/Sq Ft
L Rating At 400 F – 4 CFM/Sq Ft



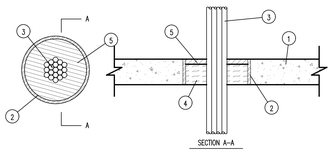
1. Floor or Wall Assembly – **Min 4-1/2 in. thick reinforced lightweight or normal weight (100–150 pcf) concrete.** Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 32 in.
2. Metallic Sleeve – (Optional) Nom 32 in. diam (or smaller) Schedule 40 (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces.
3. Through-Penetrants – One metallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe or conduit and perimeter of opening shall be min 0 in. (point contact) to max 1/2 in. Pipe or conduit to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or conduits may be used:
   A. Steel Pipe – Nom 30 in. diam (or smaller) steel or ductile iron pipe.
   B. Iron Pipe – Nom 6 in. diam (or smaller) Regular (or heavier) cast iron pipe.
   C. Conduit – Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
   D. Copper Tubing – Nom 6 in. diam (or smaller) steel electrical metallic tubing (EMT). The firestop system shall consist of the following:
4. Firestop System –
   A. Packing Material – Min 4 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material* – Sealant – **Min 1/4 in. thickness of fill** material applied within the annulus, flush with top surface of floor or with both surfaces of wall. At the point contact location between pipe and concrete, a min 1/4 in. diam bead of fill material shall be applied at the concrete/pipe interface on the top surface of floor or both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF
   HILTI INC – FS–ONE Sealant
   *Bearing the UL Classification Marking

System No. C-AJ-2098
F Rating – 3 Hr
T Rating – 3 Hr
L Rating At Ambient – Less Than 1 CFM/sq ft
L Rating At 400 F – 4 CFM/sq ft



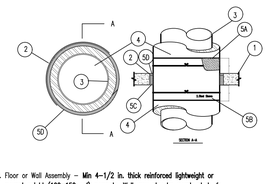
1. Floor or Wall Assembly – **Min 4-1/2 in. thick reinforced lightweight or normal weight (100–150 pcf) concrete.** Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 9 in. See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Electrical Nonmetallic Tubing‡ – Nom 2 in. diam (or smaller) corrugated wall ENT constructed of polyvinyl chloride (PVC). One tube to be centered within the firestop system. A nom annular space of 5/16 in. is required within the firestop system. Tube to be rigidly supported on both sides of floor or wall assembly.
   See Electrical Nonmetallic Tubing (FHAU) category in the Electrical Construction Materials Directory for names of manufacturers.
3. Packing Material – (Not Shown) – Mineral wool insulation firmly packed into opening as a temporary form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material. In floors form may be removed after fill material has cured.
4. Fill, Void or Cavity Material* – Sealant – **Min 2 in. thickness of fill** material applied within the annulus, flush with top surface of floor or with both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF
   HILTI, INC. – FS–ONE Sealant
   *Bearing the UL Classification Marking

System No. C-AJ-3095
F Rating – 3 Hr
T Rating – 0, 1/2, & 3/4 Hr. (See Item 3)



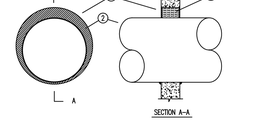
1. Floor or Wall Assembly – **Min 4–1/2 in. thick reinforced lightweight or normal weight (100–150 pcf) concrete.** Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 29 in. See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Metallic Sleeve – (Optional) – Nom 30 in. diam (or smaller) Schedule 10 (or heavier) steel pipe, conduit or EMT cast or grouted into floor or wall assembly, flush with floor or wall surfaces.
3. Through Penetrants – One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or tubing may be used:
   A. Steel Pipe – Nom 20 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Copper Tubing – Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
   C. Copper Pipe – Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.

System No. C-AJ-5061
F Rating – 3 Hr
T Rating – 1/2 Hr



1. Floor or Wall Assembly – **Min 4–1/2 in. thick reinforced lightweight or normal weight (100–150 pcf) concrete.** Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 29 in. See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Metallic Sleeve – (Optional) – Nom 30 in. diam (or smaller) Schedule 10 (or heavier) steel pipe, conduit or EMT cast or grouted into floor or wall assembly, flush with floor or wall surfaces.
3. Through Penetrants – One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or tubing may be used:
   A. Steel Pipe – Nom 30 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Copper Tubing – Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
   C. Copper Pipe – Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
4. Fill, Void or Cavity Material* – Sealant – **Min 2 in. thickness of fill** material applied within the annulus, flush with top surface of floor or with both surfaces of wall. At the point contact location between pipe and concrete, a min 1/4 in. diam bead of fill material shall be applied at the concrete/pipe interface on the top surface of floor or both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF
   HILTI, INC. – FS–ONE Sealant
   *Bearing the UL Classification Marking

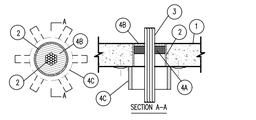
System No. W–J–1021
F Rating – 2 Hr
T Ratings – 0 and 1/4 Hr (See Item 2)
L Rating At Ambient – Less Than 1 CFM/Sq Ft
L Rating At 400 F – 4 CFM/Sq Ft



1. Wall Assembly Min 5 in. thick reinforced lightweight or normal weight (100–150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Diam of circular through opening to be min 3/8 in. to max 2–3/4 in. larger than diam of through penetrants (Item 2).
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through–Penetrants One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe or tube to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:
   A. Steel Pipe 17–1/4 in. diam (or smaller) Sch 10 (or heavier) steel pipe. The annular space shall be min 0 to max 2–3/4 in. The T Rating is 1/4 hr when steel pipe is used.
   B. Copper Tubing Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing. The annular space shall be min 0 to max 3 in. The T rating is 0 hr when copper tubing is used.
3. Firestop System The firestop system shall consist of the following:
   A. Packing Material Min 4–1/2 in. thickness of flexible urethane sheet or mineral wool insulation firmly packed into opening as a permanent form. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material* – Sealant Min 1/4 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe and wall, a min 1/2 in. diam bead of sealant shall be applied to the wall/pipe interface on both surfaces of wall assembly.
   HILTI INC – FS–ONE Sealant
   C. Steel Wire Mesh (Optional) (Not Shown) No. 8 steel wire mesh having a min 1 in. lap along the longitudinal seam. Length of steel wire mesh to be 5 in., centered and formed to fit periphery of through opening.
   *Bearing the UL Classification Marking

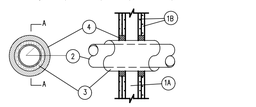
ABOVE REFERENCED ASSEMBLIES:
FIRE RESISTANCE DIRECTORY, VOLUME 1 AND VOLUME 2
1998, UNDERWRITERS LABORATORIES INC.
333 PFINGSTEN ROAD
NORTHBROOK, ILLINOIS 60062–2096
847/272–8800 TELEPHONE

System No. C–AJ–3096
F RATING = 3–HR.
T RATING = 0, 1/2, 3/4, 1 and 1–1/2 HR. (See Item 3)



1. Floor or Wall Assembly – **Min 4–1/2 in. thick reinforced lightweight or normal weight (100–150 pcf) concrete.** Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 6 in. See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
   (Optional) – Nom 6 in. diam (or smaller) Schedule 10 (or heavier) steel pipe cast or grouted into floor or wall assembly, flush with floor or wall surfaces.
3. Cables – Aggregate cross–sectional area of cables in opening to be min 25 percent to max 40 percent of the aggregate cross–sectional area of the opening. Cables to be rigidly supported on both sides of floor or wall assembly. Any combination of the following types and sizes of cable may be used:
   A. Max 350 kcmil single conductor power cables with cross–linked polyethylene (XPLE) insulation. Max diam of single aluminum conductor power cable is used, T Rating is 0 hr. When single copper conductor power cable is used, T Rating is 1/2 hr.
   B. Max 25 pair No. 24 AWG copper conductor telecommunication cables with polyvinyl chloride (PVC) insulation and jacket materials. When telecommunication cable is used, T Rating is 3/4 hr.
   C. Max No. 12 AWG multiconductor power and control cables with PVC or XLPE insulation and PVC jacket. When multiconductor power and control cable is used, T Rating is 1 hr.
   D. Multiple fiber optical communication cables jacketed with PVC and having a max outside diam of 1/2 in. When fiber optic cable is used, T Rating is 1 hr. The firestop system shall consist of the following:
4. Firestop System –
   A. Packing Material Min 4 in. thickness of min 4.0 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material* – Sealant – **Min 1/4 in. thickness of fill** material applied within the annulus, flush with top surface of floor or with both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF
   HILTI, INC. – FS–ONE Sealant
   *Bearing the UL Classification Marking

System No. W–L–5028
F Ratings – 1 and 2 Hr (See Item 1)
T Ratings – 1/2 and 3/4 Hr (See Item 3)

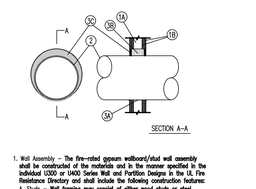


1. Wall Assembly **The 1 or 2 hr fire–rated** gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs **Wall framing** may consist of either wood studs or steel channel studs. **Wood studs** to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2–1/2 in. wide and spaced max 24 in. OC.
   B. Gypsum Board* **5/8 in. thick,** 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 7–1/2 in.

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

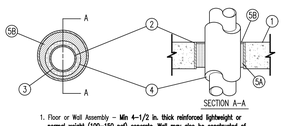
2. Cables – **Aggregate** cross–sectional area of cables in opening to be min 25 percent to max 40 percent of the cross–sectional area of the opening. Cables to be rigidly supported on both sides of floor or wall assembly. Any combination of the following types and sizes of cable may be used:
   A. Max 350 kcmil single conductor power cables with thermoplastic insulation and polyvinyl chloride (PVC) jacket. When single copper conductor power cable is used, T Rating is 0 hr.
   B. Max 350 kcmil single conductor power cables with aluminum or copper conductor and cross–linked polyethylene (XLPE) insulation. When single copper conductor power cable is used, T Rating is 0 hr. When single copper conductor power cable is used, T Rating is 1/2 hr.
   C. Max 300 pr No. 24 AWG copper conductor telecommunication cables with polyvinyl chloride (PVC) insulation and jacket material. When telecommunication cable is used, T Rating is 0 hr.
   D. Max three copper connector No. 6 AWG cable with polyvinyl chloride (PVC) insulation and jacket material. When multi–connector power cable is used, T Rating is 0 hr.
   E. Max 7/C copper conductor no. 12 AWG multiconductor power and control cables with PVC or cross–linked polyethylene (XLPE) insulation and PVC jacket. When multiconductor power and control cable is used, T Rating is 3/4 hr.
   F. **Multiple fiber optical communication cables** jacketed with PVC and having a max outside diam of 1/2 in. When fiber optic cable is used, T Rating is 3/4 hr.
   G. Max 3/C copper conductor No. 12 AWG with Bare aluminum ground, polyvinyl chloride (PVC) insulated steel, metal–clad cables. When MC cable is used, T Rating is 0 hr.
   AFC Cable Systems, Inc.
4. Packing Material – **Min 2 in. thickness of min 4.0 pcf** mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed 1/2 in. from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
5. Fill, Void or Cavity Material* – Sealant – **Min 1/2 in. thickness of fill** material applied within the annulus, flush with top surface of floor or with both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF
   HILTI, INC. – FS–ONE Sealant
   *Bearing the UL Classification Mark

System No. W–L–1058
F Rating – 2 Hr
T Ratings – 0 and 1/4 Hr (See Item 2)



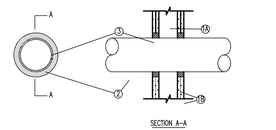
1. Wall Assembly – The fire–rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs – **Wall framing** may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2–1/2 in. wide and spaced max 24 in. OC.
   B. Wallboard, Gypsum* – Two layers of nom. 5/8 in. thick gypsum wallboard, as specified in the individual Wall and Partition Design. Min diam of opening is 14–1/2 in. for wood stud walls and 20 in. for steel stud walls. Diam of circular through opening to be min 3/8 in. to max 2–3/4 in. larger than diam of through penetrants (Item 2).
2. Through–Penetrants – One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:
   A. Steel Pipe – 11–1/4 in. diam (or smaller) Sch 10 (or heavier) steel pipe. The annular space shall be min 0 to max 2–3/4 in. The T rating is 1/4 hr when steel pipe is used.
   B. Copper Tubing – Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing. The annular space shall be min 0 to max 3 in. The T rating is 0 hr when copper tubing is used.
   C. Copper Pipe – Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe. The annular space shall be min 0 to max 3 in. The T rating is 0 hr when copper tubing is used.
3. Firestop System – The firestop system shall consist of the following:
   A. Steel Wire Mesh – No. 8 steel wire mesh having a min 1 in. lap along the longitudinal seam. Length of steel wire mesh to be 6–3/4 in., centered and formed to fit periphery of through opening.
   B. Packing Material – Min 4–1/2 in. thickness of flexible urethane sheet firmly packed into opening as a permanent form. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.
   C. Fill, Void or Cavity Material* – Sealant – Min 1/4 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe and wall, a min 1/2 in. diam bead of caulk shall be applied to the wall/pipe interface on both surfaces of wall assembly.
   HILTI CONSTRUCTION CHEMICALS, DIV OF
   HILTI, Inc. – FS–ONE Sealant
   *Bearing the UL Classification Mark

System No. C–AJ–5090
F RATING = 3–HR.
T RATING = 0–HR.
L Rating At Ambient = 4 CFM/Sq Ft
L Rating At 400 F – Less Than 1 CFM/Sq Ft



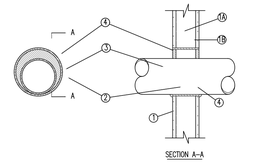
1. Floor or Wall Assembly – **Min 4–1/2 in. thick reinforced lightweight or normal weight (100–150 pcf) concrete.** Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 8 in. See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Metallic Sleeve (Optional) – Nom 8 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
3. Through Penetrants – One metallic pipe or tubing to be centered within the firestop system. Pipe or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or tubing may be used:
   A. Steel Pipe – Nom 4 in. diam (or smaller) Schedule 5 (or heavier) steel pipe.
   B. Copper Pipe – Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.
   C. Copper Tubing – Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.
4. Tube Insulation – Plastics+ – Nom 3/4 in., thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. Annular space shall be min 1/2 in. to max 1–1/2 in.
   See Plastics+ (QMFZ2) Category in the Recognized Component Directory for names of manufacturers. Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94–5VA may be used.
5. Firestop System – The firestop system shall consist of the following:
   A. Packing Material – Min 4 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material* – Sealant – **Min 1 in.** thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.
   Q-ONE Sealant
   *Bearing the UL Classification Marking

System No. W–L–1054
F Ratings – 1 and 2 Hr (See Items 1 and 3)
T Rating – 0 Hr
L Rating At Ambient – Less Than 1 CFM/Sq Ft
L Rating At 400 F – 4 CFM/Sq Ft



1. Wall Assembly **The 1 or 2 hr fire–rated** gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs – **Wall framing** may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2–1/2 in. wide and spaced max 24 in. OC.
   B. Wallboard, Gypsum* – Two layers of nom. 5/8 in. thick gypsum wallboard, as specified in the individual Wall and Partition Design. Min diam of opening is 14–1/2 in. for wood stud walls. Diam of circular through opening to be min 3/8 in. to max 2–3/4 in. larger than diam of through penetrants (Item 2).
2. Through–Penetrants – One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:
   A. Steel Pipe – Nom 30 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe – Nom 30 in. diam (or smaller) cast or ductile iron pipe.
   C. Conduit Nom 4 in diam (or smaller) steel electrical metallic tubing or 6 in diam steel conduit.
   D. Copper Tubing Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe Nom 6 in. diam (or smaller) regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* – Sealant Min 5/8 in. or 1–1/4 in. thickness of fill material applied within the annulus, flush with both surfaces of wall for 1 or 2 hr walls, respectively. At the point contact location between pipe and wall, a min 1/2 in. diam bead of fill material shall be applied at the pipe covering/wall interface on both surfaces of wall .
   HILTI CONSTRUCTION CHEMICALS, DIV OF
   HILTI INC – FS–ONE Sealant
   *Bearing the UL Classification Mark

System No. W–L–1164
F Ratings – 1 and 2 Hr (See Items 1 and 4)
T Rating – 0 Hr

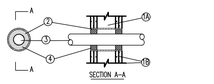


1. Wall Assembly **The 1 or 2 hr fire–rated** gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs **Wall framing** may consist of either wood studs or steel channel studs. **Wood studs** to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2–1/2 in. wide and spaced max 24 in. OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw–attached to the steel studs at each end. The framed opening in the wall shall be 4 to 8 in. wider and 4 to 8 in. higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.
   B. Gypsum Board* **5/8 in. thick,** 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32in. Max diam of opening is 14–1/2 in. for wood stud walls.

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. Steel Sleeve – Nom 32 in. diam (or smaller) Schedule 40 (or heavier) steel pipe sleeve friction fit in nom 32 in. diam circular opening cut through gypsum wallboard layers. Length of steel sleeve to be equal to thickness of wall.
3. Through–Penetrant – One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and the steel sleeve shall be min 0 in. (point contact) to max 1–7/8 in. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe – Nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Conduit – Nom 4 in. diam (or smaller) electrical metallic tubing or steel conduit.
   C. Copper Tubing – Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
   D. Copper Pipe – Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
4. Pipe Covering – Nom 2 in. thick flexible cylindrical heavy density (min 3.5 pcf) glass fiber units jacketed on the outside with an all–service jacket. Longitudinal joints sealed with metal fasteners or factory–applied self–sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. Pipe covering and Equipment Covering – Materials – (SMGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
5. Firestop System – The firestop system shall consist of the following:
   A. Packing Material – Min 4 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material* – Sealant – **Min 1/2 in.** thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF
   HILTI, INC. – FS–ONE Sealant
   *Bearing the UL Classification Marking

System No. W–L–2075
F Ratings – 1 & 2 Hr (See Item 4)
T Ratings – 0 and 2 Hr (see Item 4)
L Rating At Ambient – Less Than 1 CFM/Sq Ft
L Rating At 400 F – 4 CFM/Sq Ft

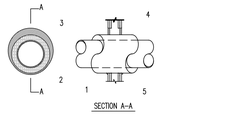


1. Floor or Wall Assembly **The fire–rated** gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs **Wall framing** may consist of either wood studs or steel channel studs. **Wood studs** to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2–1/2 in. wide and spaced max 24 in. OC.
   B. Gypsum Board* Nom 5/8 in. thick gypsum wallboard, with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 4 in.

The T Rating of the firestop system is equal to the fire rating of the wall assembly.

2. Electrical Nonmetallic Tubing‡ Nom 2 in. diam (or smaller) corrugated wall electrical nonmetallic tubing (ENT) constructed of polyvinyl chloride (PVC) having a nom wall thickness of 0.06 in. One tube to be centered within the firestop system. A nom annular space of 5/16 in. is required within the firestop system.
   See Electrical Nonmetallic Tubing (FHAU) category in the Electrical Construction Materials Directory for names of manufacturers.
3. Tube Insulation – Plastics+ Nom 3/4 in. thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. Annular space shall be min 1/2 in. to max 1–1/2 in.
   See Plastics+ (QMFZ2) Category in the Recognized Component Directory for names of manufacturers. Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94–5VA may be used.
4. Firestop System – The firestop system shall consist of the following:
   A. Packing Material – Min 4 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material* – Sealant – **Min 1 in.** thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.
   Q-ONE Sealant
   *Bearing the UL Classification Marking

System No. W–L–5029
F Ratings – 1 and 2 Hr (See Item 1)
T Ratings – 1/2, 3/4, 1 and 1–3/4 Hr (See Item 3)
L Rating At Ambient = 4 CFM/Sq Ft
L Rating At 400 F – Less Than 1 CFM/Sq Ft



1. Wall Assembly – The 1 or 2 hr fire–rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs – **Wall framing** may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2–1/2 in. wide and spaced max 24 in. OC.
   B. Wallboard, Gypsum* – 5/8 in. thick, 4 ft wide, with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 15–5/8 in.

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

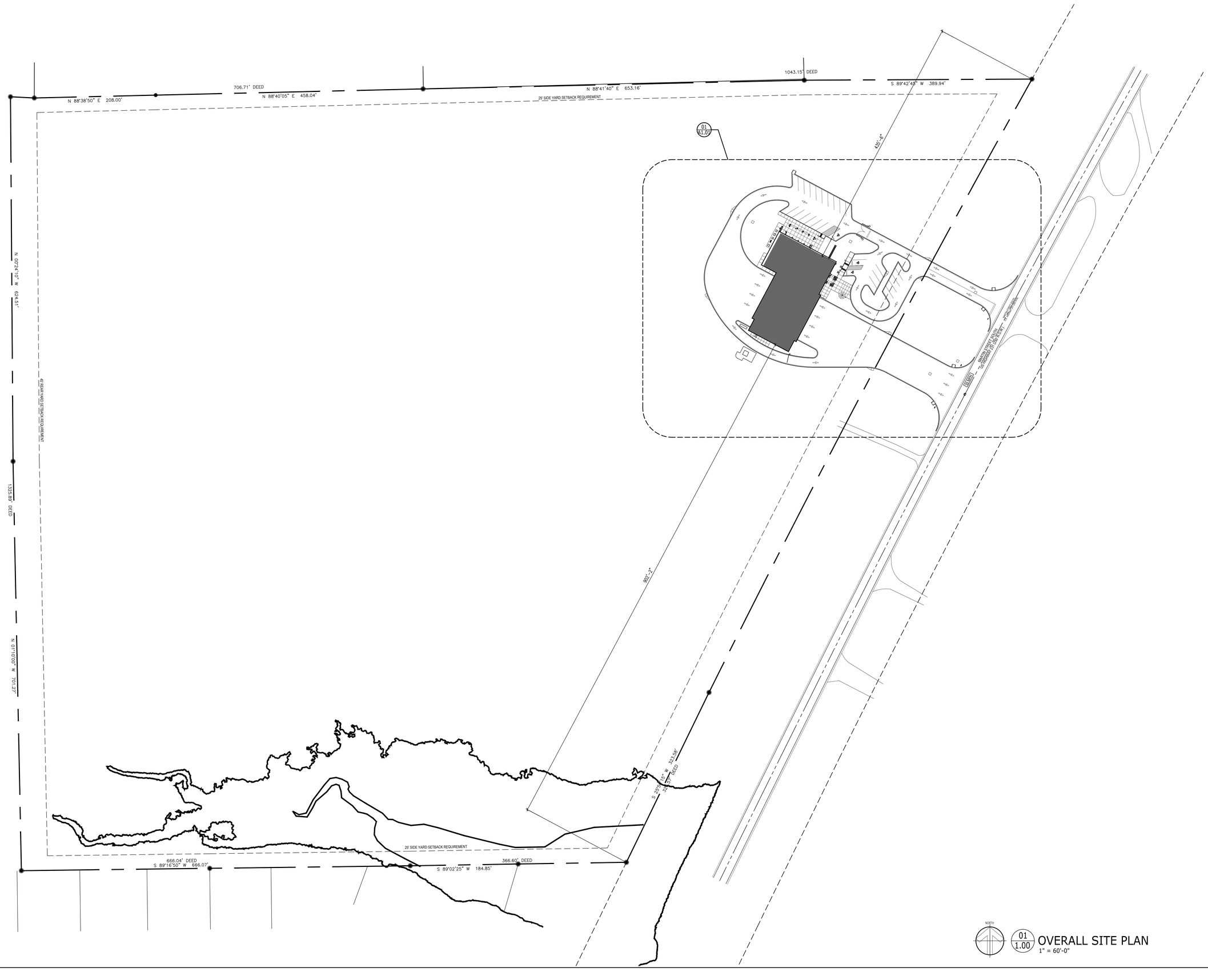
2. Through Penetrants – One metallic pipe, conduit or tubing to be centered within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe – Nom 30 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Conduit – Nom 4 in. diam (or smaller) electrical metallic tubing or steel conduit.
   C. Copper Tubing – Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
   D. Copper Pipe – Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
3. Pipe Covering* – Nom 1, 1–1/2 or 2 in. thick hollow cylindrical heavy density (min 3.5 pcf) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory–applied self–sealing lap tapes. Transverse joints secured with metal fasteners or with butt tape supplied with the product.
   See Pipe and Equipment Covering – Materials (BRGU) category in the Building Materials Directory for the names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
   The hour T Rating of the firestop system is dependent on the hourly fire rating of the wall assembly in which it is installed, the size and type of through penetrant and the pipe covering thickness, as shown in the table below.

Wall Assembly Rating, Hr	Through Penetrant Types*	Max Diam, In.	Pipe Covering Thickness, In.	Annular Space Min, In.	Annular Space Max, In.	T Rating, Hr
1	A or B	4	1	0	1–1/2	1/2
1	C or D	2	1 or 1–1/2	0	1–1/2	1/2
1	C or D	4	1	0	1–1/2	3/4
1	C or D	6	2	0	1–7/8	1
2	C or D	4	1	0	1–1/2	1
2	C or D	4	1 or 1–1/2	0	1–1/2	1
2	C or D	6	2	0	1–7/8	1
2	A or B	4	1–1/2	0	1–1/2	1–3/4
2	A	12	2	0	1–7/8	1–1/2
2	C or D	6	2	0	1–7/8	1

   *Indicates penetrant type as itemized in Item 2.
4. Fill Void or Cavity Material* – Sealant – Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall for 1 or 2 hr walls, respectively. At the point contact location between pipe covering and gypsum wallboard, a min 1/2 in. diam bead of fill material shall be applied at the pipe covering/gypsum wallboard interface on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF
   HILTI, Inc. – FS–ONE Sealant
   *Bearing the UL Classification Marking

System No. W–L–1114
F Rating – 3 Hr
T Rating – 0 Hr
L Rating At Ambient – Less Than 1 CFM/Sq Ft
L Rating At 400 F – Less Than 1 CFM/Sq Ft

1. Wall Assembly – The fire–rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and



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STATE OF ALABAMA
Blakeney S. Nelson
6153
Registered Architect

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OCTOBER 31, 2024

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OVERALL
SITE PLAN

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FIRE STATION #2

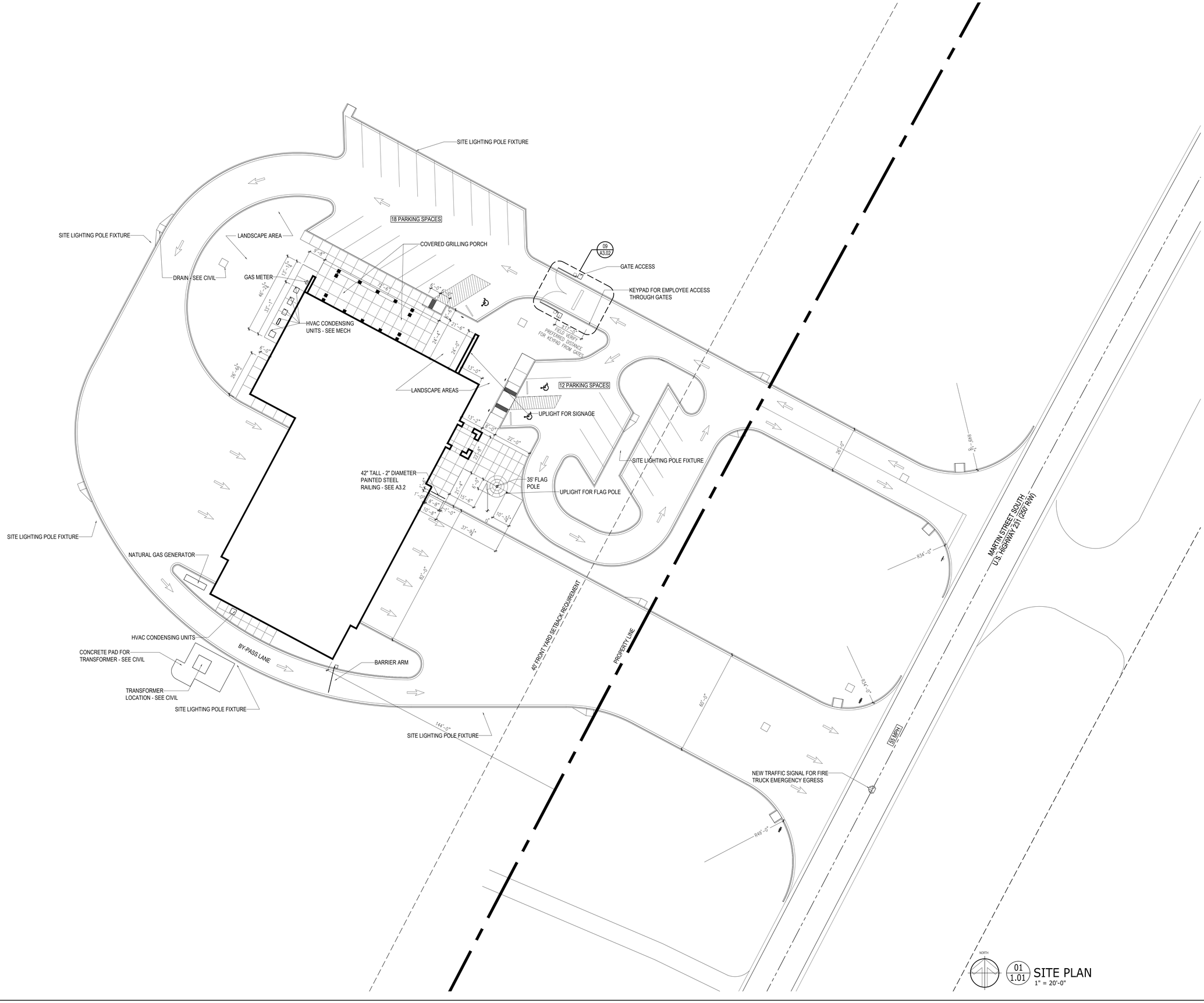
NOTE: SEE CIVIL & STRUCTURAL FOR CONCRETE CONTROL / EXPANSION JOINT SPACING & LOCATIONS

NOTE: SEE CIVIL, LANDSCAPE, ELECTRICAL, AND PLUMBING DRAWINGS FOR MORE INFORMATION - CONTACT ARCHITECT IMMEDIATELY IF THERE ARE ANY COORDINATION CONTRADICTIONS

NOTE: FLAG POLE TO BE 35' TALL - DESIGNED IN ACCORDANCE WITH NAAMM FP 1001 - FINIAL BALL 8" DIAMETER - FLAG UNITED STATES DESIGN, 5' X 8' SIZE NYLON FABRIC, BRASS GROMMETS, HEMMED EDGES - 5/16" DIAMETER NYLON, BRAIDED ROPE, WHITE - SEE SPECIFICATIONS

NOTE: BANNER ARM TO BE FAAC INTERNATIONAL, INC. MODEL #B680H WITH INTEGRATED SPEED SENSOR, EVERLASTING SPRINGS, 24V HYBRID TECHNOLOGY, BATTERY BACK-UP KIT, BRACKET AND BALANCING SPRING, ELLIPTICALLY PROFILED MODULAR BARRIER ARM - 16 FEET LONG @ EXIT DRIVE - BANNER ARM MOTION SENSOR ACTIVATED TO OPEN AUTOMATICALLY TO LET VEHICLES EXIT AS THE VEHICLE APPROACHES THE ARM

NOTE: DUAL GATES POWERED BY LIFTMASTER ELITE SERIES DC GATE OPERATOR EQUAL TO CSW24UL GATE ENGINE - SEE THIS SHEET AND SHEET A3.02 FOR MORE GATE LAY-OUT INFORMATION - NOTE THAT THE CONTROLS FOR THIS GATE ARE THE CODE PAD AS SHOWN ON THE DRAWINGS FOR THE EMPLOYEES ENTRANCE TO THE FACILITY & THE GATE NEEDS A SENSOR ATTACHED TO THE TRUCK TO AUTOMATICALLY OPEN WHEN THE FIRE TRUCKS APPROACH THE GATES



NORTH

01 / 1.01 SITE PLAN
1" = 20'-0"

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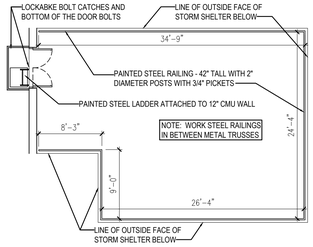
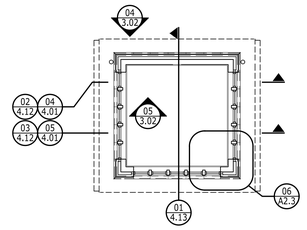


04 2.01 FLOOR PLAN
1/8" = 1'-0"



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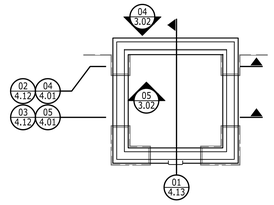

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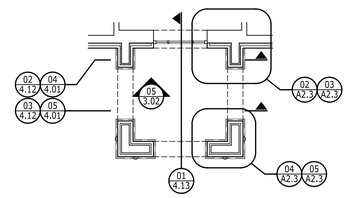
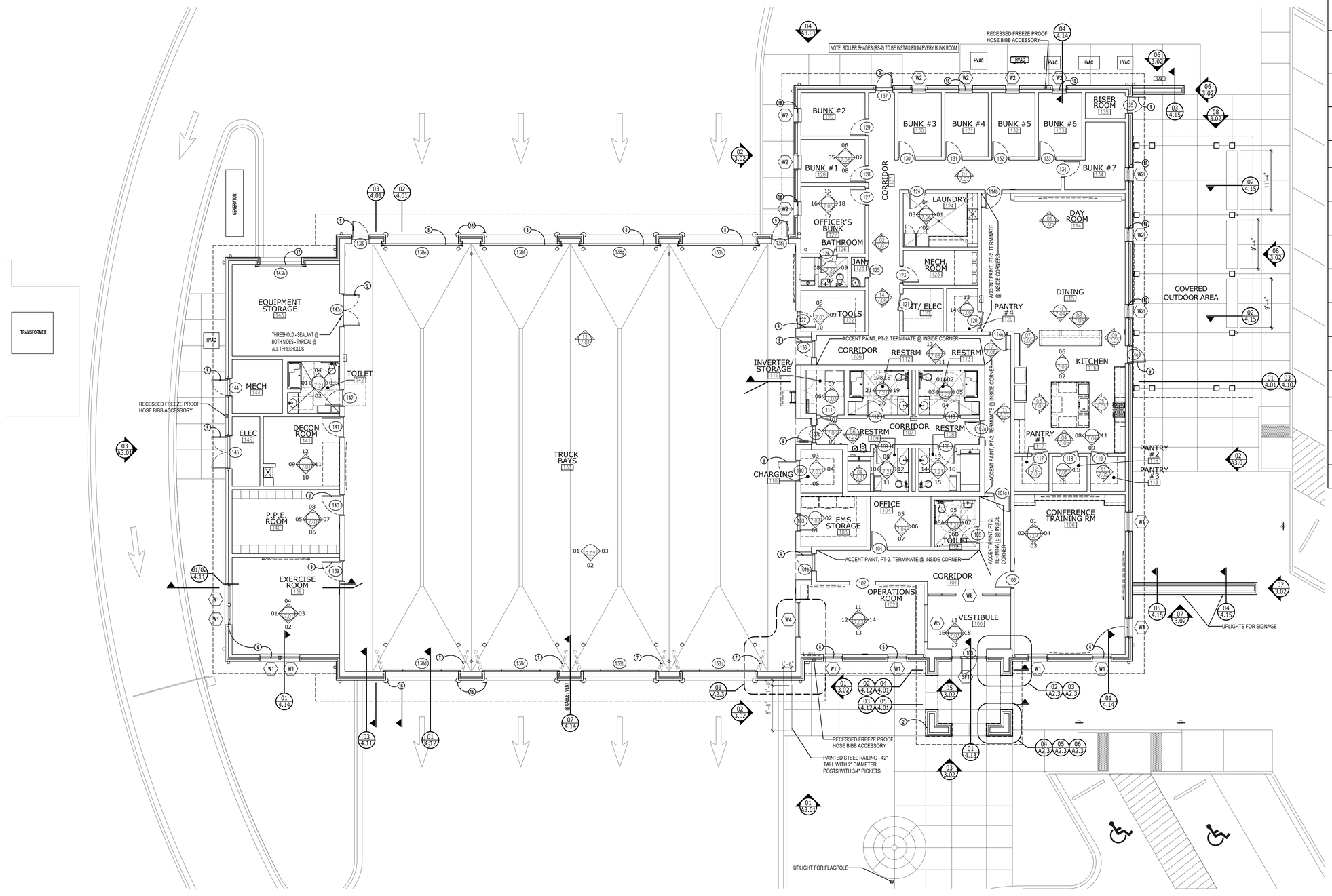


02 2.01 FLOOR PLAN
1/8" = 1'-0"



01 2.01 FLOOR PLAN
1/8" = 1'-0"

TYPICAL MATERIAL LEGEND

NOTE: CONFIRM ALL MATERIALS, COLORS, & FINISHES WITH THE ARCHITECT & GENERAL CONTRACTOR BEFORE PRICING, PERMITTING, & CONSTRUCTION - NO SUBSTITUTIONS UNLESS PREVIOUSLY APPROVED BY THE ARCHITECT

MATERIAL NUMBER	DESCRIPTION
1	**TYPICAL STANDING SEAM METAL ROOF SYSTEM**: Equal to PAC-CLAD snap on standing seam metal roof system on approved decking - see sections & roof plan sheet for additional information. Architect to choose from manufacturer's full range of colors / finishes including all premium choices
2	**TYPICAL STONE VENEER**: Basis of Design is **Real Rock - Cottage Split Stack** veneer on approved substrate - Provide adjustable masonry wall ties @ 16" OC MAX vertically and 32" MAX horizontally. Provide continuous through wall flashing with mortar mesh & cell vent weeps @ 24" OC MAX.
3	**TYPICAL BRICK VENEER**: Basis of Design is **Taylor Clay Products Modular Wirecut in #322 Gray Color** - Nominal (7 5/8" x 2 1/4" x 3 5/8") brick veneer laid in running bond or soldier course on approved substrate - Provide adjustable masonry wall ties @ 16" OC MAX vertically and 32" MAX horizontally. Provide continuous through wall flashing with mortar mesh & cell vent weeps @ 24" OC MAX.
4	**TYPICAL THIN STONE APPLIED VENEER**: Basis of Design is **Real Rock - Cottage Split Stack** veneer on approved substrate - 2" deep applied stone pieces applied with high strength Laticrete grout - See manufacturer"s recommended installation procedures
5	**TYPICAL ROCKCAST PRE-CAST STONE PIECES**: Custom masonry transitions, sills, arched / straight headers, & signage pieces - See elevations & sections for specific shapes & locations - finishes / colors are to be selected from full range of options - exp/control joints by manufacturer's installation instructions
6	**TYPICAL ALUMINUM STOREFRONT SYSTEM**: Thermally broken aluminum storefront system w/ 1" insulated glazing equal to Kawneer Tirfab 451UT Framing System center glazed w/ 2" sightline & 4 1/2" depth & ultra thermal performance, See elevations & specs for additional information. Finish for storefront is either Fire Engine Red (R) or Clear Anodized Aluminum (S)
7	**FOUR-FOLD BI-FOLDING GARAGE DOORS:** Basis of Design is Electric Power Door Fire Station Door - Pre-finished colors from manufacturer's standard color selections - with insulated / tinted glass
8	**SEGMENTED ROLL-UP GARAGE DOORS WITH GLASS:** Prefinished aluminum segmented doors - Basis of Design is from **Overheaddoor.com Aluminum Glass Door EverServe 521s** - architect to select from full range of standard & premium colors - glass can be insulated or uninsulated and tinted
9	**TYPICAL HOLLOW METAL DOOR:** Typical solid core insulated painted hollow metal door in a hollow metal frame - see specifications
10	**TYPICAL PREFINISHED METAL SOFFIT / FASCIA SYSTEM**: Equal to PAC-CLAD Flush / Smooth Panel System. Architect to choose from manufacturer's full range of colors / finishes including all premium choices
11	**TYPICAL PRE-FINISHED METAL FLASHING:** Prefinished aluminum flashing **WITH HEMMED EDGE** at all dissimilar material joints. See sections & details. Architect to select from colors including premium and custom colors.
12	**GUTTERS, DOWNSPOUTS, & CONDUCTOR HEADS:** Pre-finished half round gutters with circular downspouts booted to storm - or spilled onto splashblock / grade - See drawings
13	**ARCHITECTURAL LOUVERS:** Pre-finished storm_proof aluminum louvers with bug screen - see mechanical information & architectural elevations for sizes and locations - Architect to select finish from full range of color options
14	**EXTERIOR LIGHT FIXTURE:** See Fixture Legend on RCP - finishes are TBD from the full range of available finishes / colors including premium selections - battery back-up is required @ exit doors - see life safety plan for egress locations
15	**TYPICAL PREFINISHED ALUMINUM CANOPY SYSTEM & BRACKETS:** Freestanding aluminum canopy system by TVM or equal - footings by structural - Finish is clear anodized aluminum or approved equal - Brackets are decorative (non_structural) and attached to the sheathing / blocking as required / detailed
16	**TYPICAL CORNER BOLLARD:** Basis of design is Architctural Iron Company (AIC) 12" diameter ductile iron corner bollard
17	**OVERHEAD COILING GARAGE DOOR :** Prefinished aluminum coiling door - Basis of Design is TBD
18	**TYPICAL ALUMINUM CLAD WOOD WINDOWS**: Basis of design is Marvin Ultimate Aluminum Clad Wood Double Hung windows with interior primed pine finish - exterior aluminum clad color to be selected from full range of finishes - use Marvin's installation specifications and instructions
19	**TYPICAL STEEL RAILING :** 42" AFF tall painted steel railing with 2" diameter rails and 3/4" diameter / square pickets

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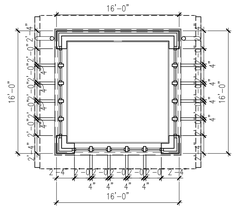
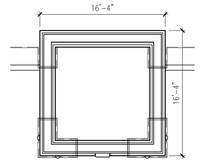


04 2.02 TOWER DIMENSIONED FLOOR PLAN
1/8" = 1'-0"



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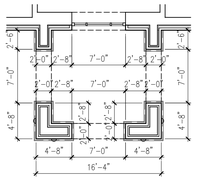
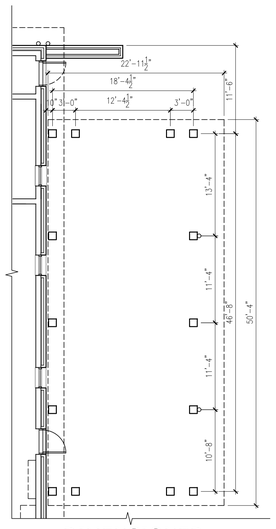


02 2.02 TOWER DIMENSIONED FLOOR PLAN
1/8" = 1'-0"



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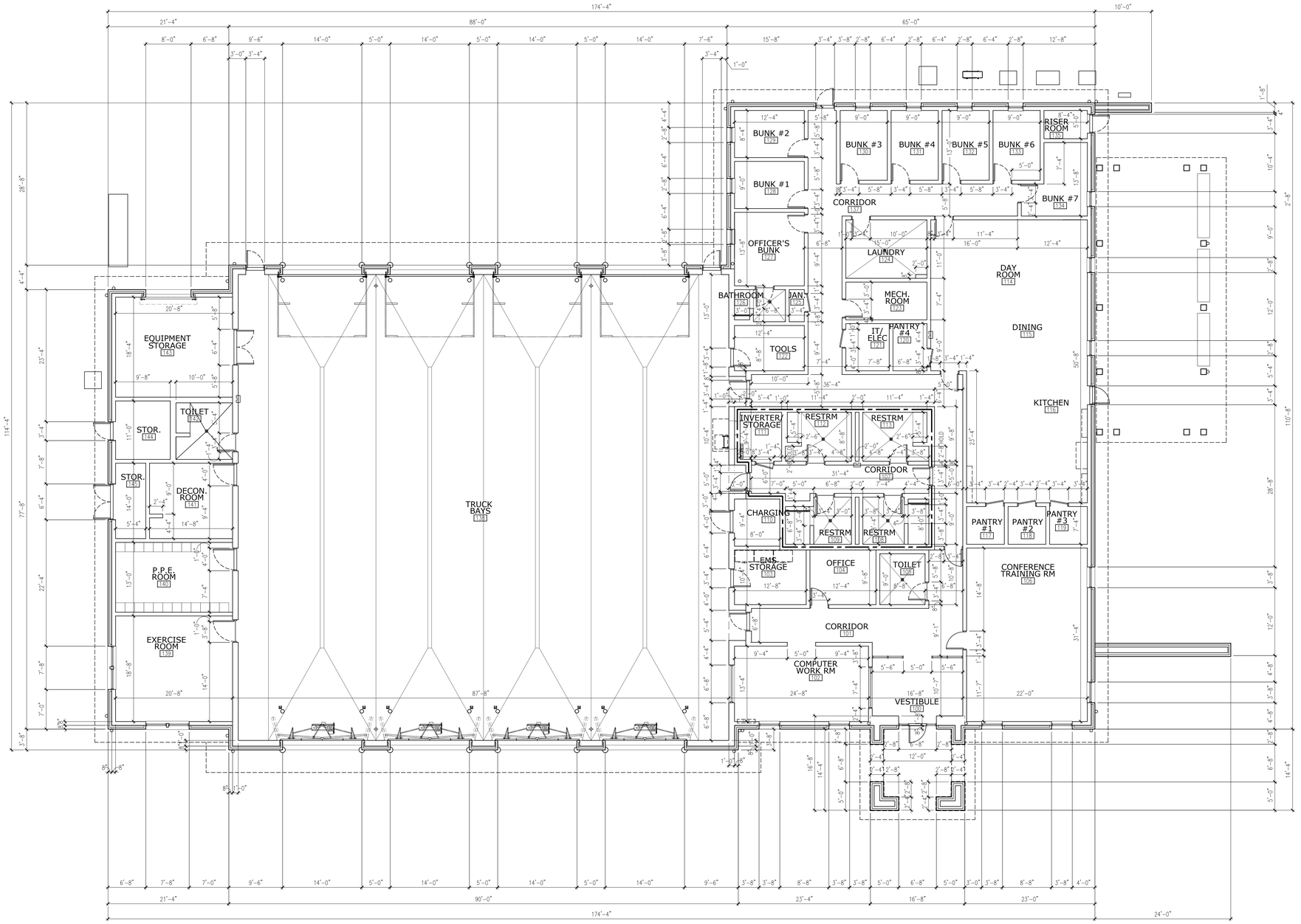

01 2.02 DIMENSIONED FLOOR PLAN
1/8" = 1'-0"

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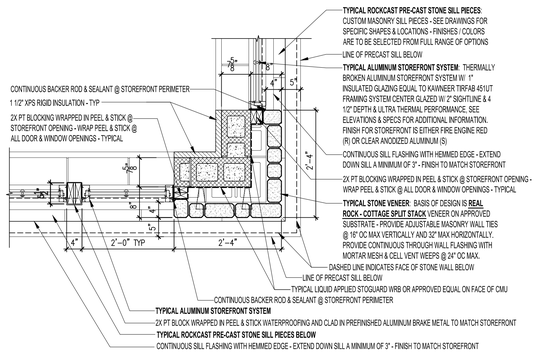
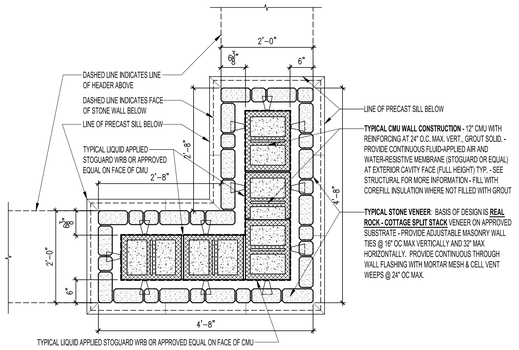
FIRE STATION #2



06 / A2.3 ENLARGED PLAN DETAIL
3/4" = 1'-0"



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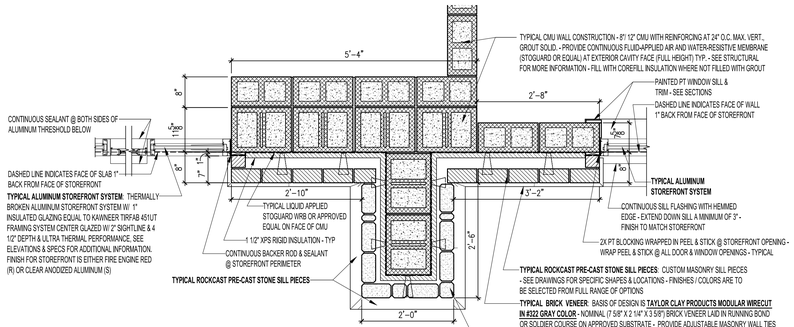
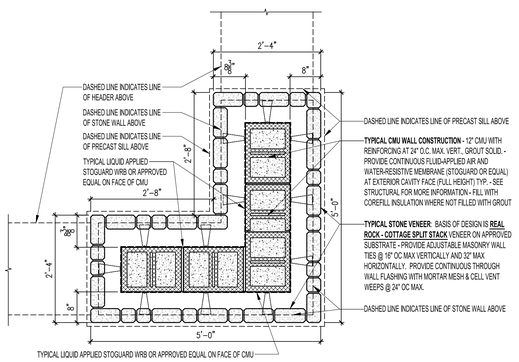
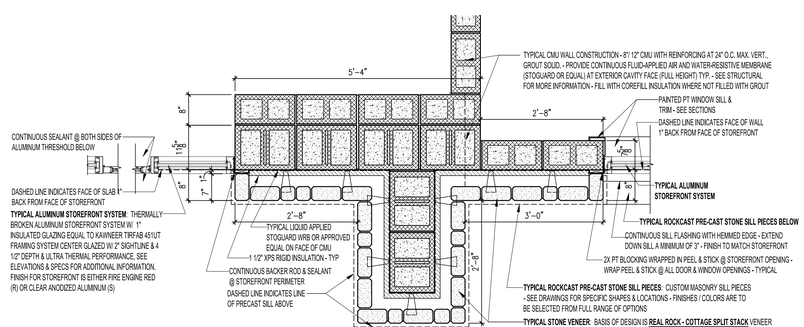
3/4" = 1'-0"



03 / A2.3 ENLARGED PLAN DETAIL
3/4" = 1'-0"



04 / A2.3 ENLARGED PLAN DETAIL
3/4" = 1'-0"



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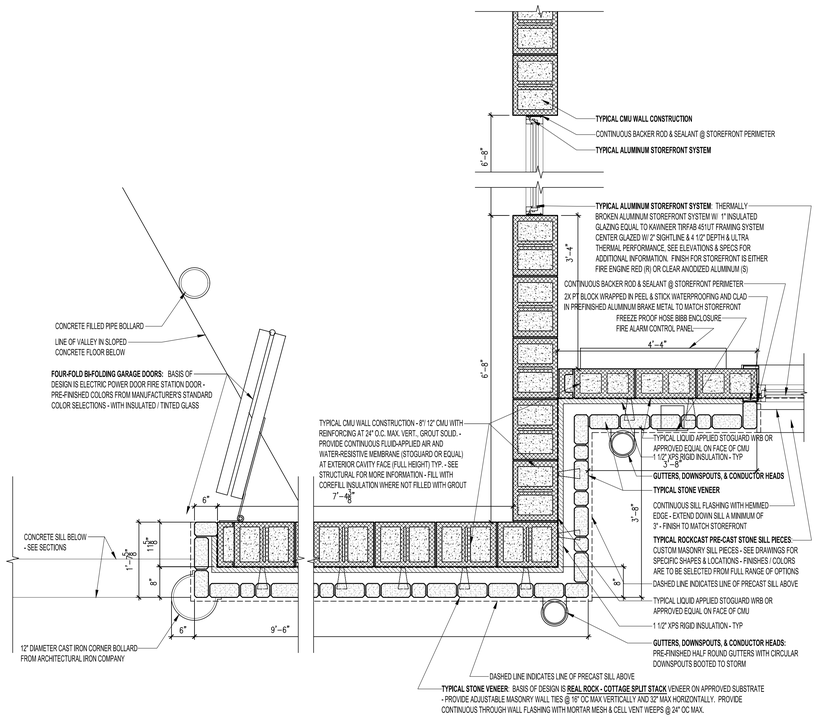
3/4" = 1'-0"



01 / A2.3 ENLARGED PLAN DETAIL
3/4" = 1'-0"

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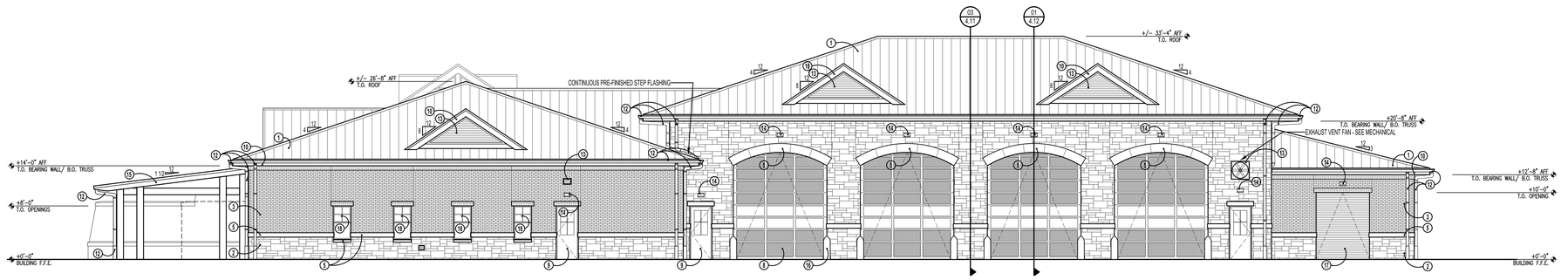

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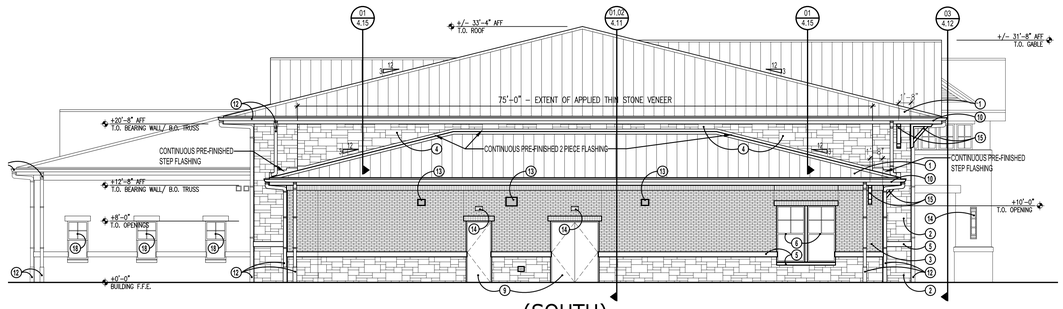
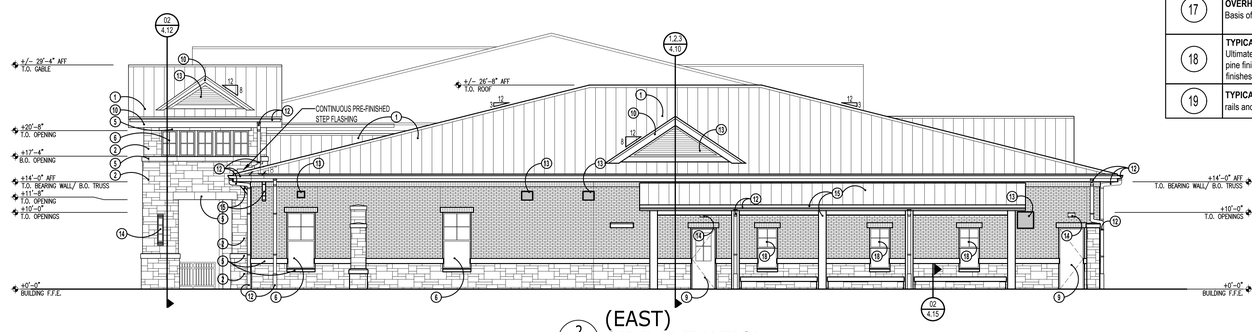
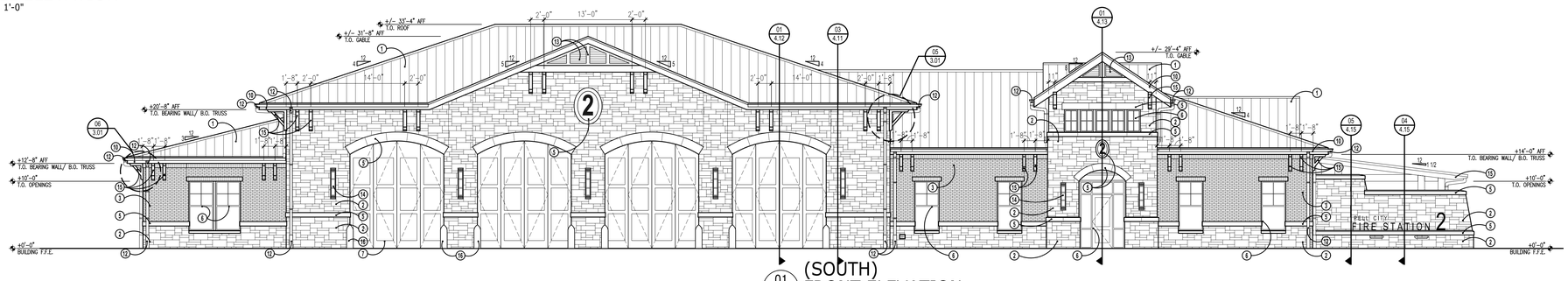
1/8" = 1'-0"



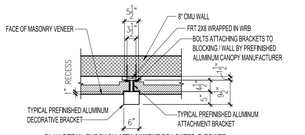
3 A3.01 (SOUTH) SIDE ELEVATION
1/8" = 1'-0"



2 A3.01 (EAST) SIDE ELEVATION
1/8" = 1'-0"

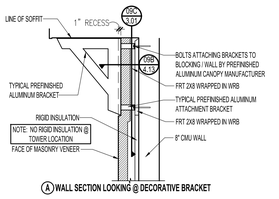


1 A3.01 (SOUTH) FRONT ELEVATION
1/8" = 1'-0"

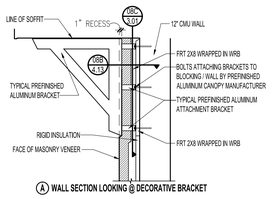


PLAN DETAIL THROUGH ATTACHMENT BRACKETS @ TOWER

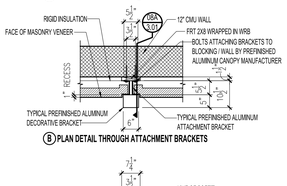
09 A3.01 TYPICAL SMALL BRACKET ATTACHMENT @ TOWER
1/2" = 1'-0"



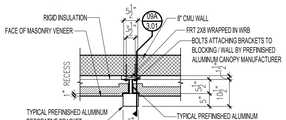
A WALL SECTION LOOKING @ DECORATIVE BRACKET



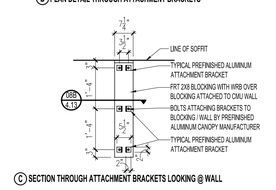
A WALL SECTION LOOKING @ DECORATIVE BRACKET



B PLAN DETAIL THROUGH ATTACHMENT BRACKETS

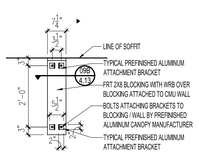


B PLAN DETAIL THROUGH ATTACHMENT BRACKETS



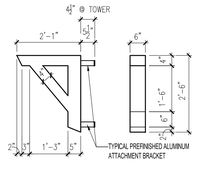
C SECTION THROUGH ATTACHMENT BRACKETS LOOKING @ WALL

08 A3.01 TYPICAL LARGE BRACKET ATTACHMENT
1/2" = 1'-0"

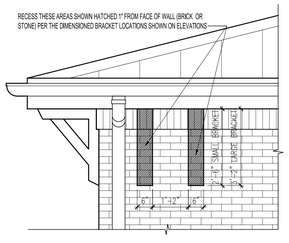


C SECTION THROUGH ATTACHMENT BRACKETS LOOKING @ WALL

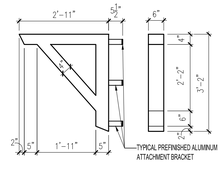
09 A3.01 TYPICAL SMALL BRACKET ATTACHMENT
1/2" = 1'-0"



06 A3.01 SMALL BRACKET ELEVATION
1/2" = 1'-0"



07 A3.01 TYPICAL BRACKET WALL ELEVATION
1/2" = 1'-0"



05 A3.01 LARGE BRACKET ELEVATION
1/2" = 1'-0"

TYPICAL MATERIAL LEGEND

NOTE: CONFIRM ALL MATERIALS, COLORS, & FINISHES WITH THE ARCHITECT & GENERAL CONTRACTOR BEFORE PRICING, PERMITTING, & CONSTRUCTION - NO SUBSTITUTIONS UNLESS PREVIOUSLY APPROVED BY THE ARCHITECT

MATERIAL NUMBER	DESCRIPTION
1	**TYPICAL STANDING SEAM METAL ROOF SYSTEM**: Equal to PAC-CLAD snap on standing seam metal roof system on approved decking - see sections & roof plan sheet for additional information. Architect to choose from manufacturer's full range of colors / finishes including all premium choices
2	**TYPICAL STONE VENEER**: Basis of Design is **Real Rock - Cottage Split Stack** veneer on approved substrate - Provide adjustable masonry wall ties @ 16" OC MAX vertically and 32" MAX horizontally. Provide continuous through wall flashing with mortar mesh & cell vent weeps @ 24" OC MAX.
3	**TYPICAL BRICK VENEER**: Basis of Design is **Taylor Clay Products Modular Wirecut in #322 Gray Color** - Nominal (7 5/8" x 2 1/4" x 3 5/8") brick veneer laid in running bond or soldier course on approved substrate - Provide adjustable masonry wall ties @ 16" OC MAX vertically and 32" MAX horizontally. Provide continuous through wall flashing with mortar mesh & cell vent weeps @ 24" OC MAX.
4	**TYPICAL THIN STONE APPLIED VENEER**: Basis of Design is **Real Rock - Cottage Split Stack** veneer on approved substrate - 2" deep applied stone pieces applied with high strength Laticrete grout - See manufacturer"s recommended installation procedures
5	**TYPICAL ROCKCAST PRE-CAST STONE PIECES**: Custom masonry transitions, sills, arched / straight headers, & signage pieces - See elevations & sections for specific shapes & locations - finishes / colors are to be selected from full range of options - exp/control joints by manufacturer's installation instructions
6	**TYPICAL ALUMINUM STOREFRONT SYSTEM**: Thermally broken aluminum storefront system w/ 1" insulated glazing equal to Kawneer Tirfab 451UT Framing System center glazed w/ 2" sightline & 4 1/2" depth & ultra thermal performance, See elevations & specs for additional information. Finish for storefront is either Fire Engine Red (R) or Clear Anodized Aluminum (S)
7	**FOUR-FOLD BI-FOLDING GARAGE DOORS:** Basis of Design is Electric Power Door Fire Station Door - Pre-finished colors from manufacturer's standard color selections - with insulated / tinted glass
8	**SEGMENTED ROLL-UP GARAGE DOORS WITH GLASS:** Prefinished aluminum segmented doors - Basis of Design is from **Overheaddoor.com Aluminum Glass Door EverServe 521s** - architect to select from full range of standard & premium colors - glass can be insulated or uninsulated and tinted
9	**TYPICAL HOLLOW METAL DOOR:** Typical solid core insulated painted hollow metal door in a hollow metal frame - see specifications
10	**TYPICAL PREFINISHED METAL SOFFIT / FASCIA SYSTEM**: Equal to PAC-CLAD Flush / Smooth Panel System. Architect to choose from manufacturer's full range of colors / finishes including all premium choices
11	**TYPICAL PRE-FINISHED METAL FLASHING:** Prefinished aluminum flashing **WITH HEMMED EDGE** at all dissimilar material joints. See sections & details. Architect to select from colors including premium and custom colors.
12	**GUTTERS, DOWNSPOUTS, & CONDUCTOR HEADS:** Pre-finished half round gutters with circular downspouts booted to storm - or spilled onto splashblock / grade - See drawings
13	**ARCHITECTURAL LOUVERS:** Pre-finished storm_proof aluminum louvers with bug screen - see mechanical information & architectural elevations for sizes and locations - Architect to select finish from full range of color options
14	**EXTERIOR LIGHT FIXTURE:** See Fixture Legend on RCP - finishes are TBD from the full range of available finishes / colors including premium selections - battery back-up is required @ exit doors - see life safety plan for egress locations
15	**TYPICAL PREFINISHED ALUMINUM CANOPY SYSTEM & BRACKETS:** Freestanding aluminum canopy system by TVM or equal - footings by structural - Finish is clear anodized aluminum or approved equal - Brackets are decorative (non_structural) and attached to the sheathing / blocking as required / detailed
16	**TYPICAL CORNER BOLLARD:** Basis of design is Architctural Iron Company (AIC) 12" diameter ductile iron corner bollard
17	**OVERHEAD COILING GARAGE DOOR :** Prefinished aluminum coiling door - Basis of Design is TBD
18	**TYPICAL ALUMINUM CLAD WOOD WINDOWS:** Basis of design is Marvin Ultimate Aluminum Clad Wood Double Hung windows with interior primed pine finish - exterior aluminum clad color to be selected from full range of finishes - use Marvin's installation specifications and instructions
19	**TYPICAL STEEL RAILING :** 42" AFF tall painted steel railing with 2" diameter rails and 3/4" diameter / square pickets

Registered Architect
Blakeney S. Nelson
6153
STATE OF ALABAMA

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SHEET TITLE
EXTERIOR ELEVATIONS

PROJECT NUMBER
1917

ISSUE DATE
10/31/2024

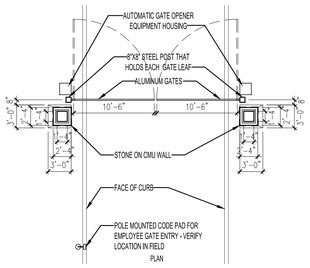
DRAWN BY

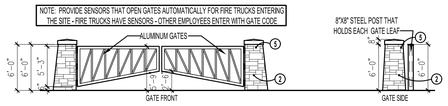
CHECKED BY
BN

SHEET NUMBER
A3.01

FIRE STATION #2

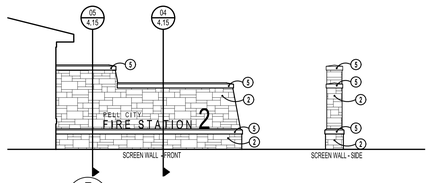
PLOT DATE: 11/19/2024, 8:42 PM



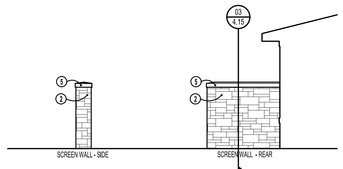


9 A3.02 GATE INFORMATION
1/8" = 1'-0"

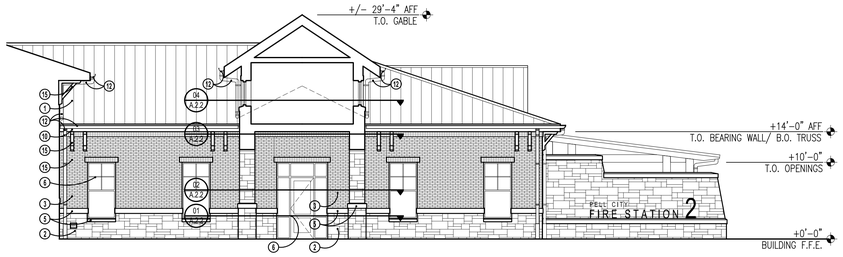
8 A3.02 EXTERIOR CANOPY
1/8" = 1'-0"



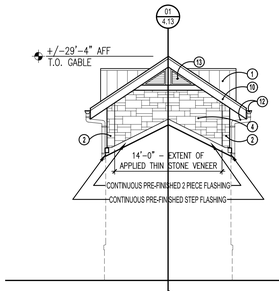
7 A3.02 FRONT SCREEN / SIGN WALL
1/8" = 1'-0"



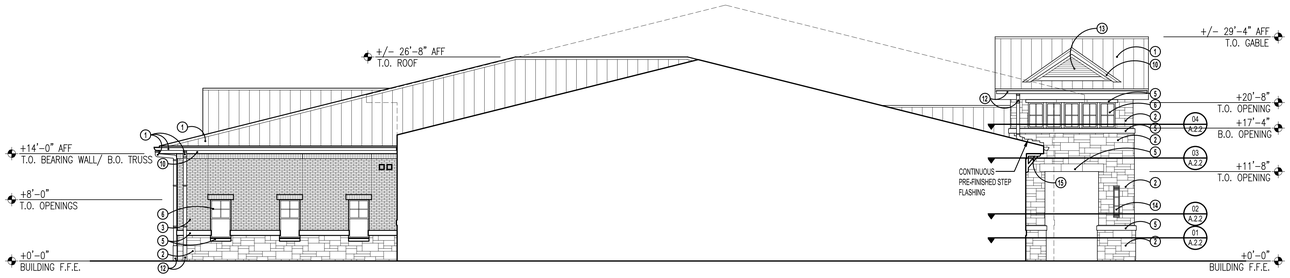
6 A3.02 REAR SCREEN WALL
1/8" = 1'-0"



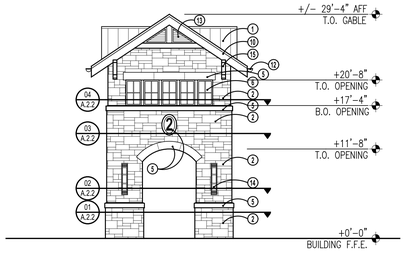
5 A3.02 PARTIAL FRONT ELEVATION
1/8" = 1'-0"



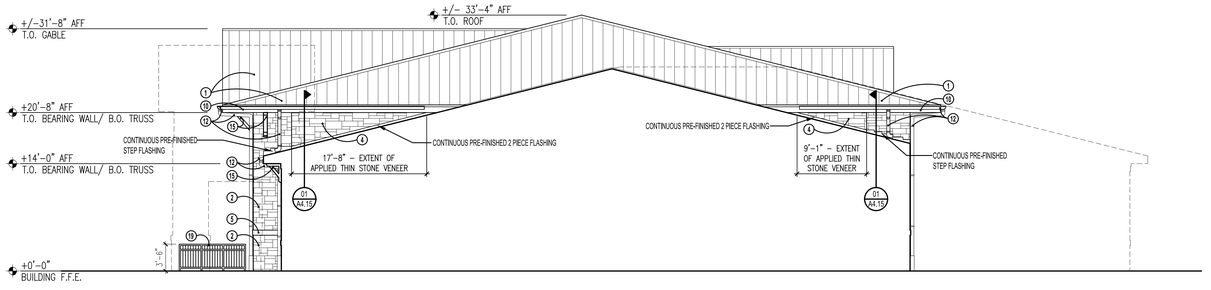
4 A3.02 BACK OF TOWER ELEVATION
1/8" = 1'-0"



2 A3.02 PARTIAL SIDE ELEVATION
1/8" = 1'-0"



3 A3.02 TOWER ELEVATION
1/8" = 1'-0"



1 A3.02 PARTIAL SIDE ELEVATION
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SHEET TITLE
EXTERIOR ELEVATIONS

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ISSUE DATE
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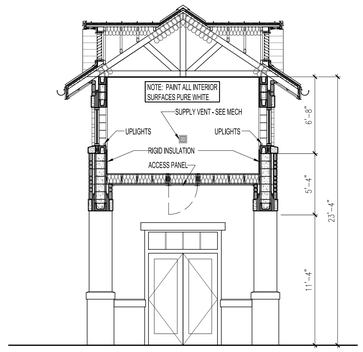
SHEET NUMBER
A3.02

FIRE STATION #2

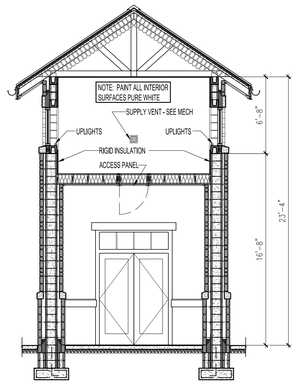
PLOT DATE: 10/30/2024 8:42 PM

OCCUPANCY USE LEGEND
STORM SHELTER

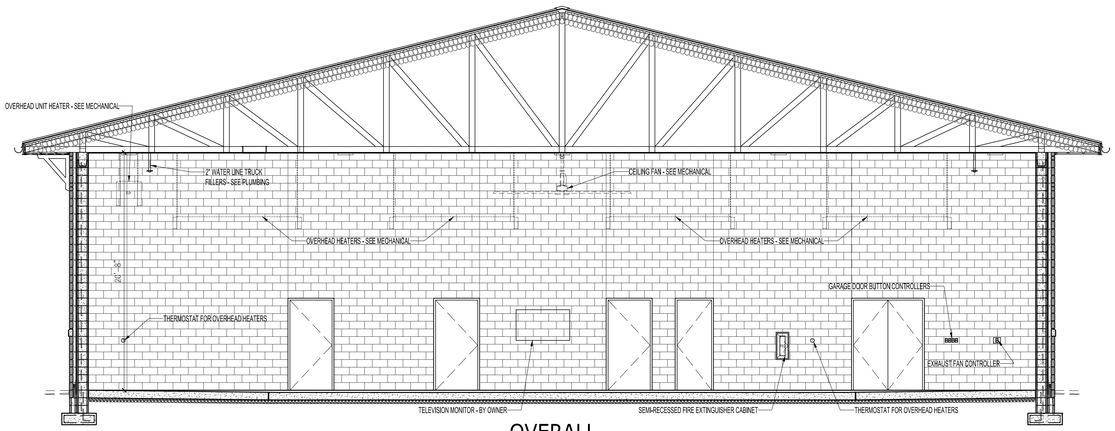
NOTE: SEE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, & FIRE PROTECTION DRAWINGS FOR COORDINATION OF ALL APPLICABLE SYSTEMS



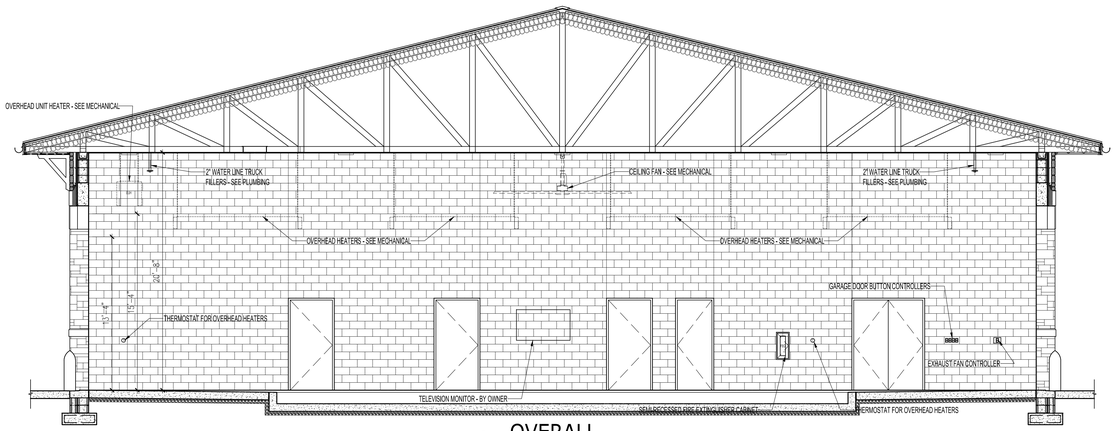
05 / A4.1 TOWER SECTION
3/16" = 1'-0"



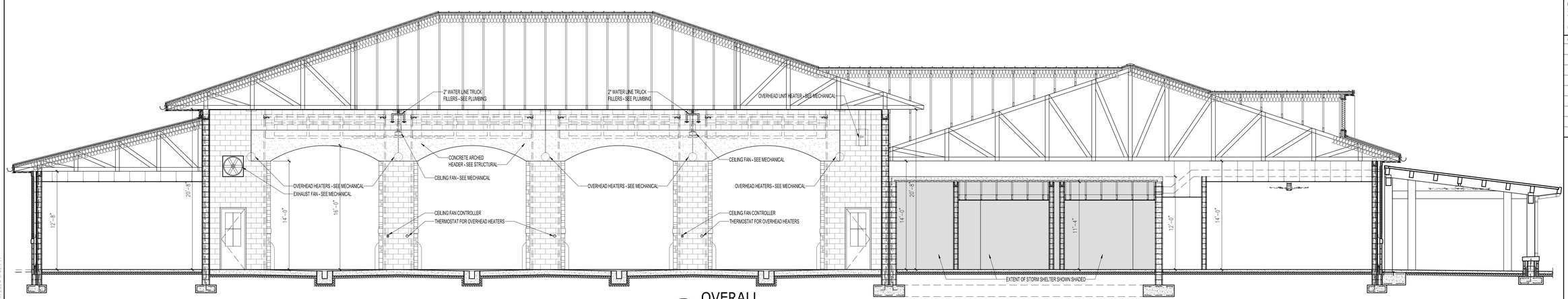
04 / A4.1 TOWER SECTION
3/16" = 1'-0"



03 / A4.1 OVERALL BUILDING SECTION
3/16" = 1'-0"



02 / A4.1 OVERALL BUILDING SECTION
3/16" = 1'-0"



01 / A4.1 OVERALL BUILDING SECTION
3/16" = 1'-0"

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Licensed Architect

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SHEET TITLE
OVERALL BUILDING SECTIONS

PROJECT NUMBER
1917

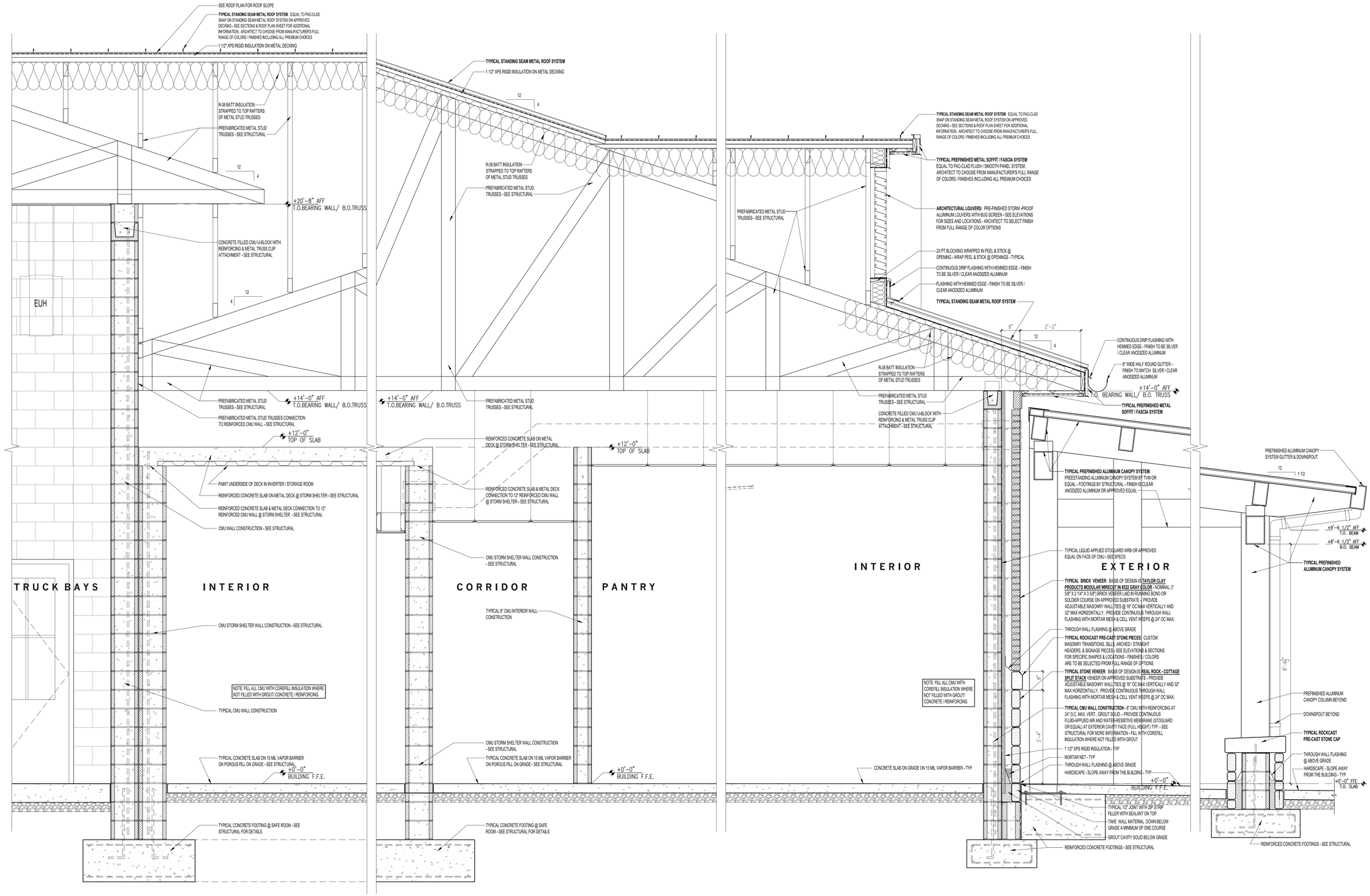
ISSUE DATE
10/31/2024

DRAWN BY
JT

CHECKED BY
BN

SHEET NUMBER
A4.01

FIRE STATION #2



03/4.10 WALL SECTION
3/4" = 1'-0"

02/4.10 WALL SECTION
3/4" = 1'-0"

01/4.10 WALL SECTION
3/4" = 1'-0"

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Blakeney S. Nelson
6153
Registered Architect

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CROPWELL, AL 35054

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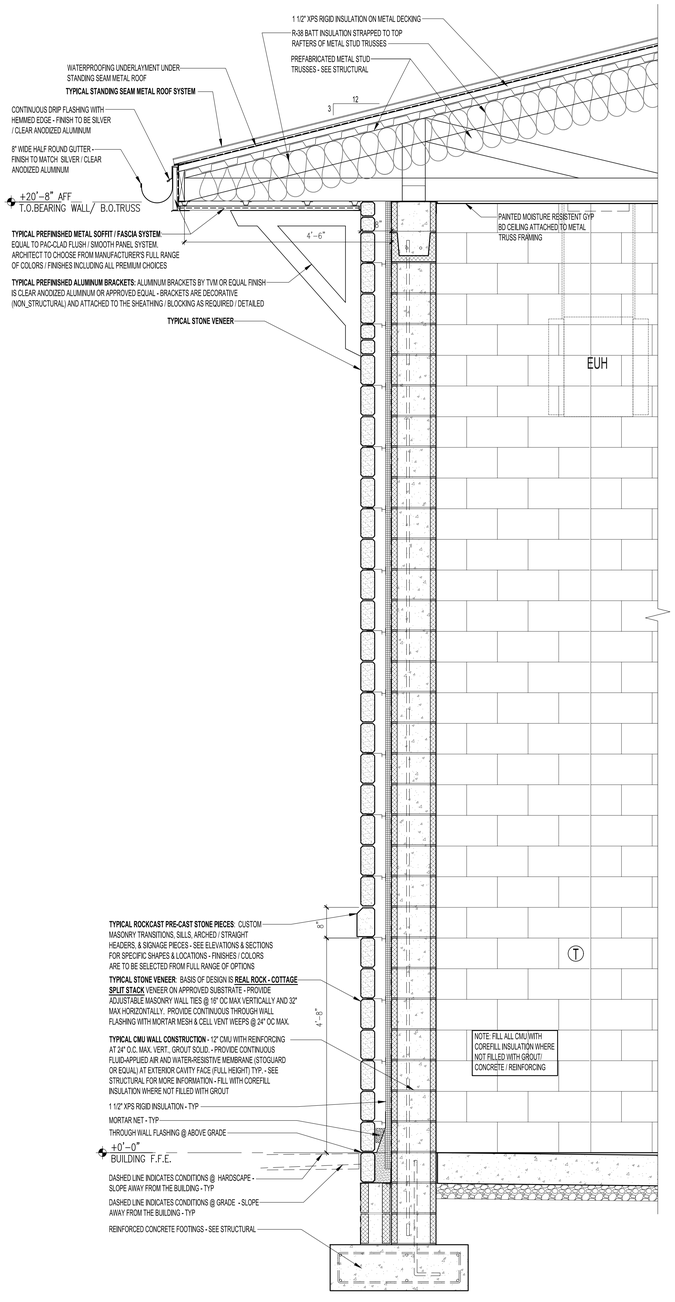

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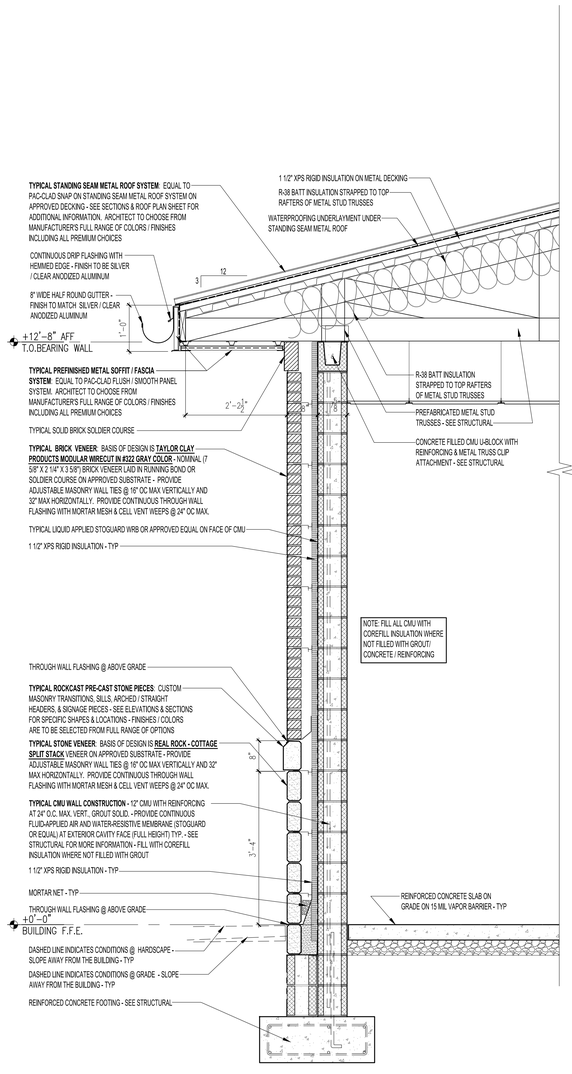

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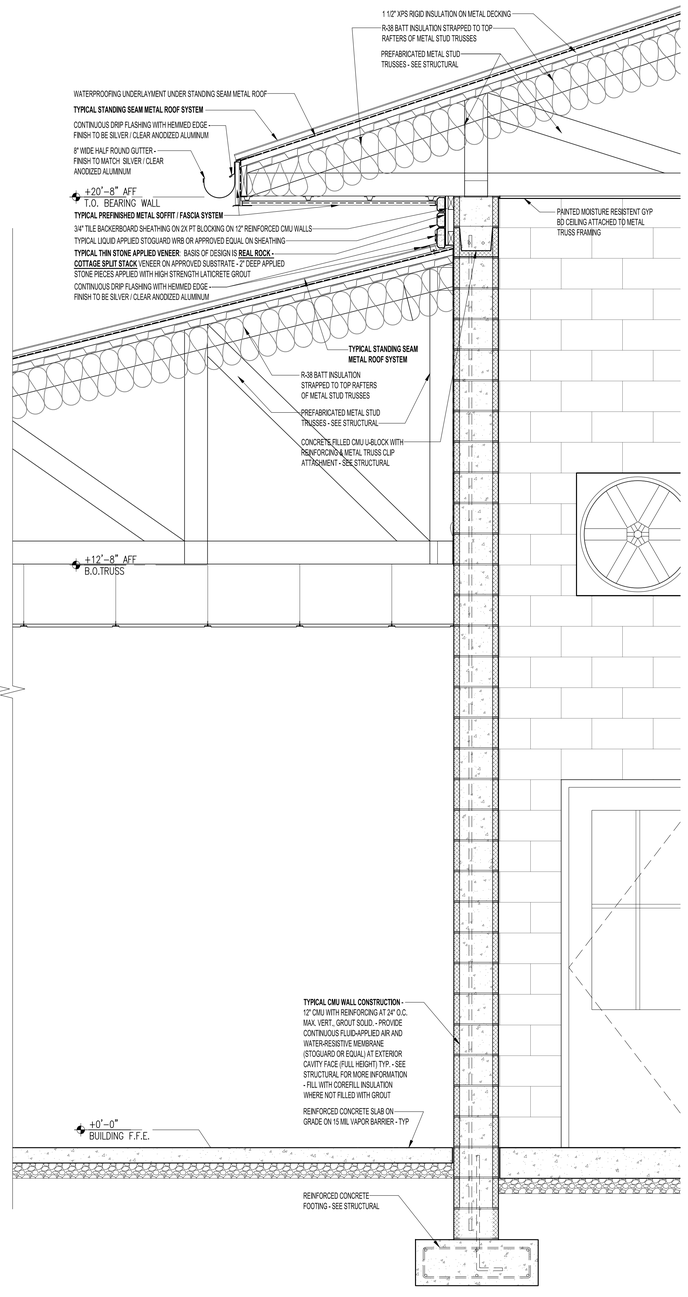

01/4.11 WALL SECTION
3/4" = 1'-0"

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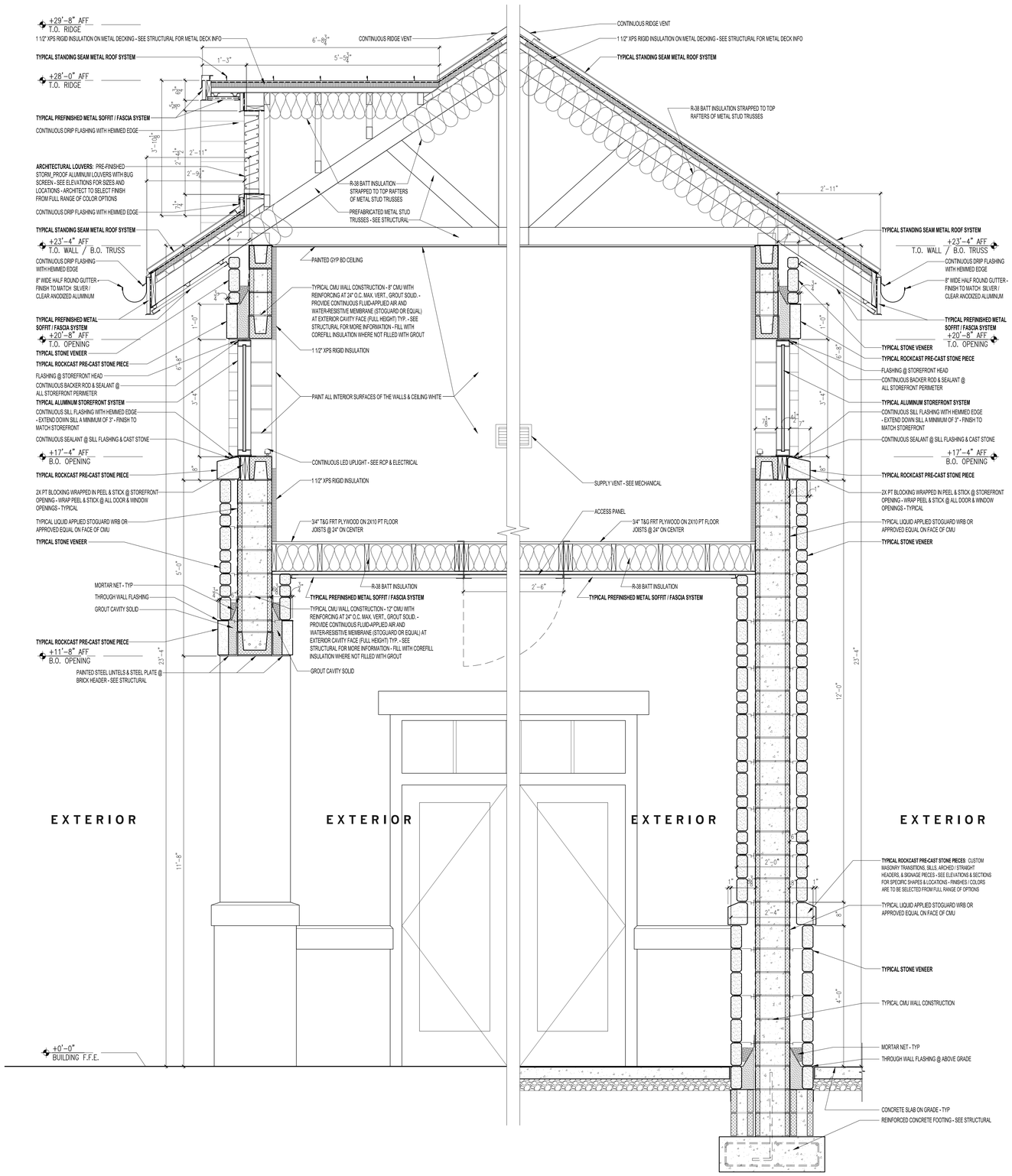

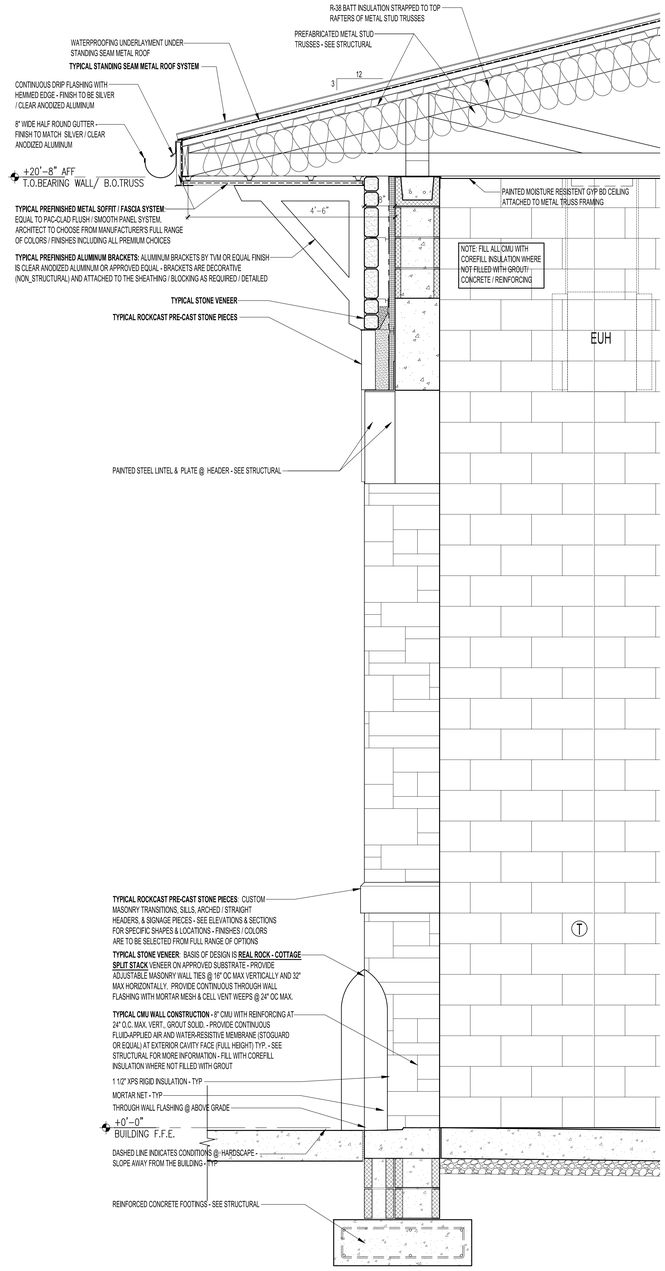

03 4.12 WALL SECTION
3/4" = 1'-0"

02 4.12 WALL SECTION
3/4" = 1'-0"

01 4.12 WALL SECTION
3/4" = 1'-0"

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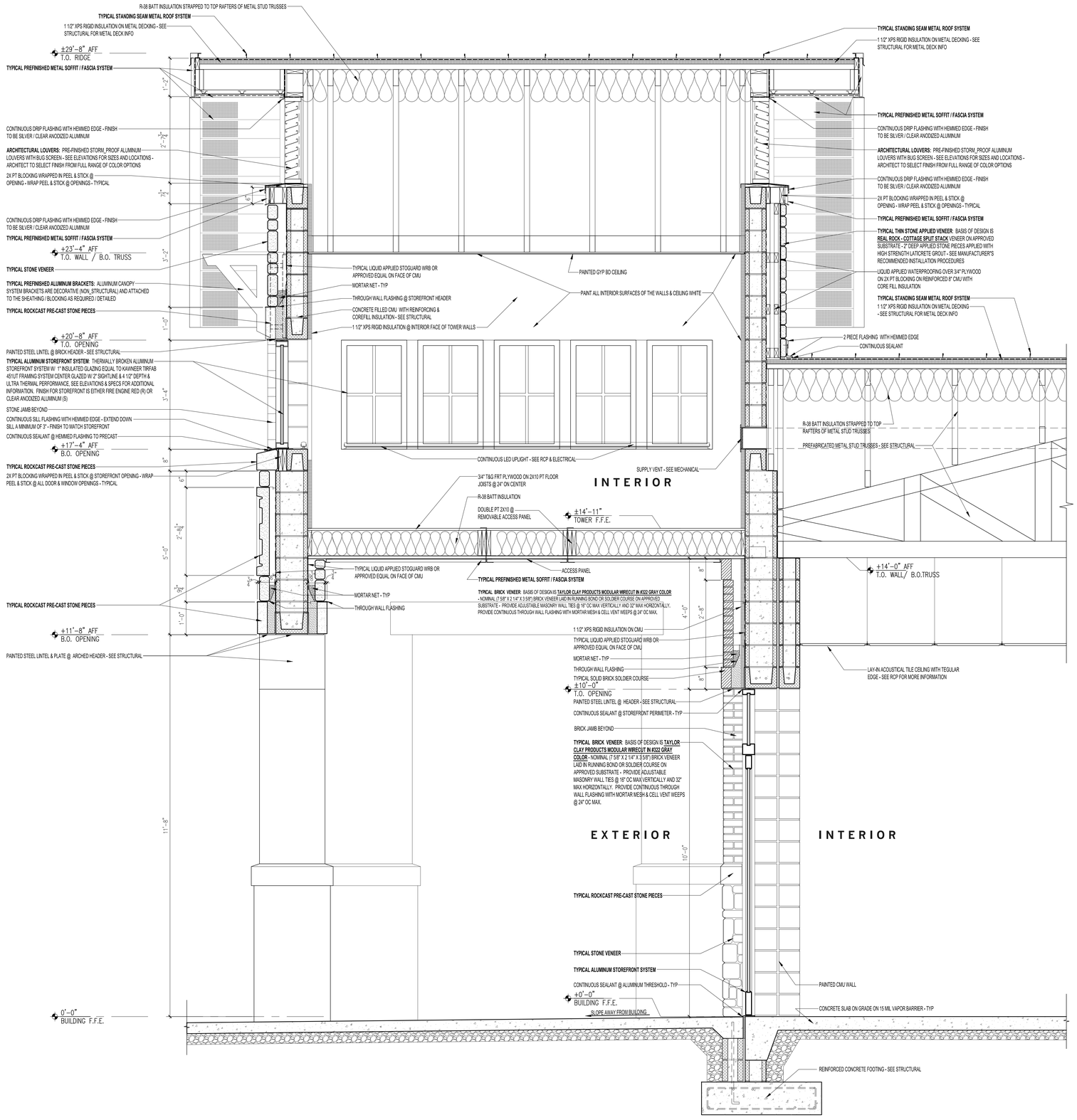

01 / 4.13 WALL SECTION
3/4" = 1'-0"

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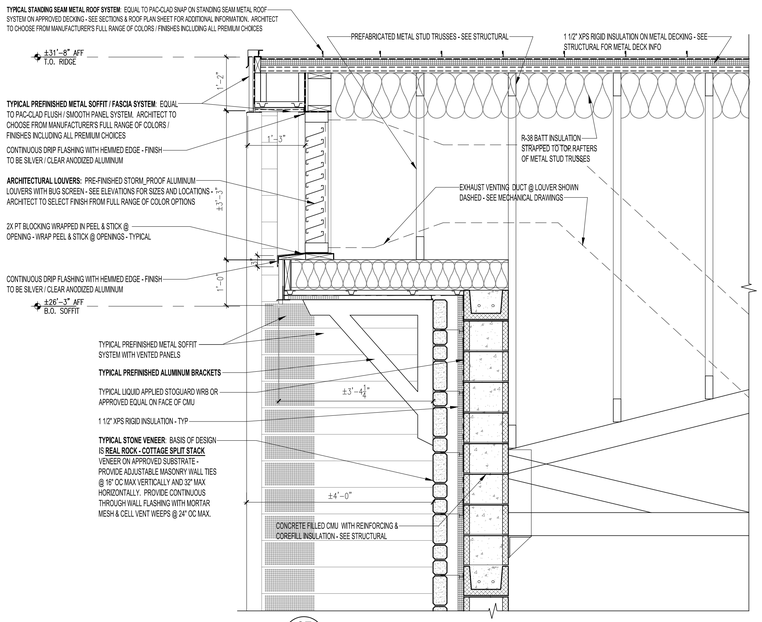
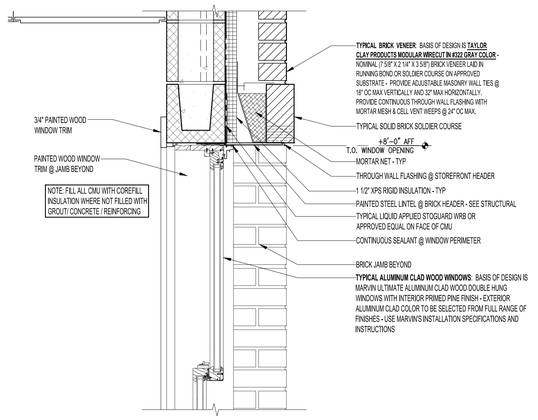
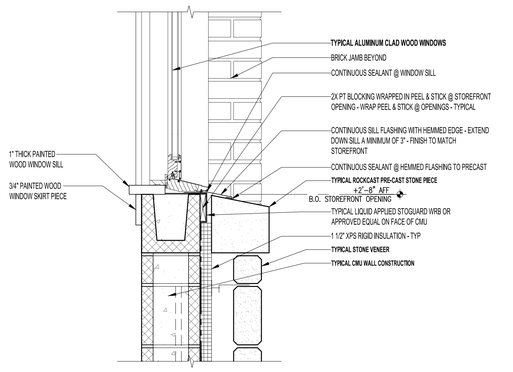


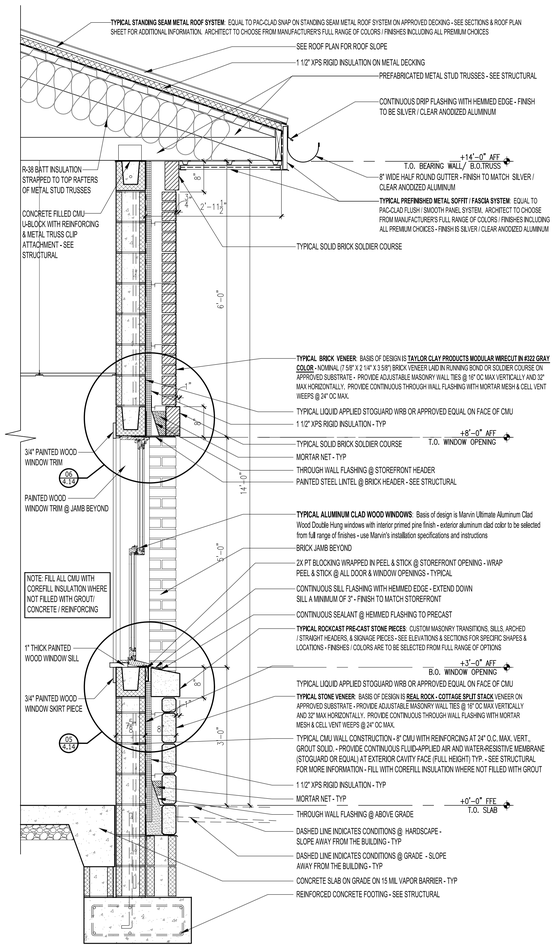
07 / 4.14 WALL SECTION
3/4" = 1'-0"



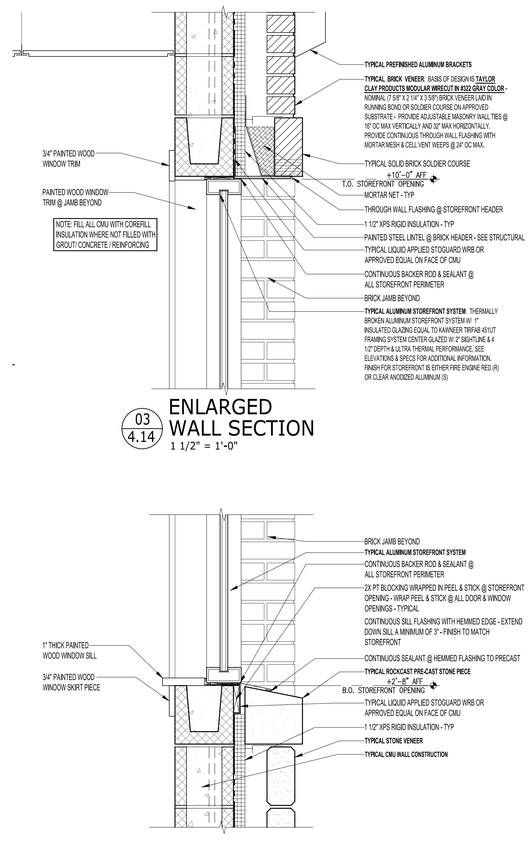
06 / 4.14 ENLARGED WALL SECTION
1 1/2" = 1'-0"



05 / 4.14 ENLARGED WALL SECTION
1 1/2" = 1'-0"

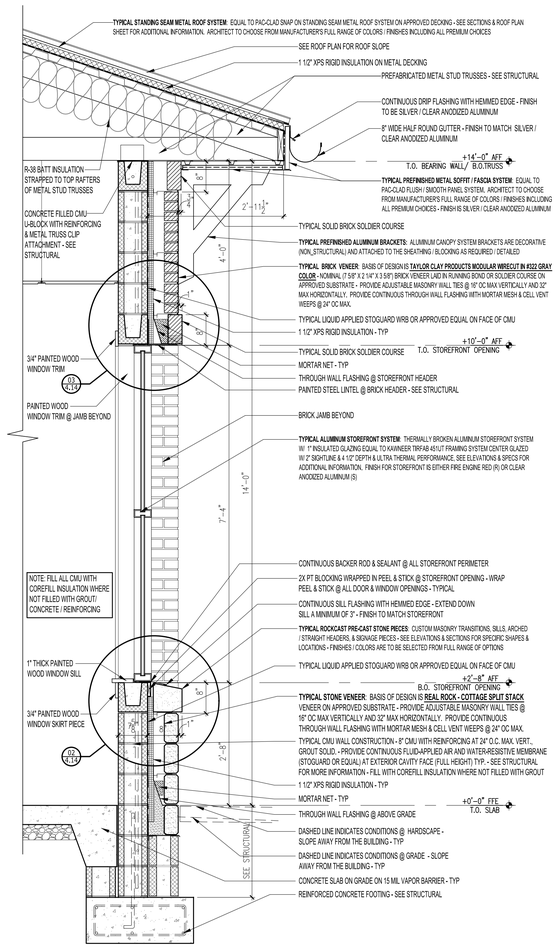


04 / 4.14 TYPICAL WALL SECTION
3/4" = 1'-0"



03 / 4.14 ENLARGED WALL SECTION
1 1/2" = 1'-0"

02 / 4.14 ENLARGED WALL SECTION
1 1/2" = 1'-0"



01 / 4.14 TYPICAL WALL SECTION
3/4" = 1'-0"

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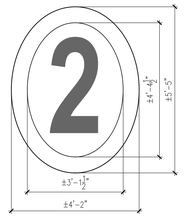
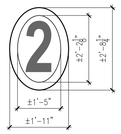


14/4.15 PRECAST ELEVATION
1/2" = 1'-0"



15/4.15 PRECAST ELEVATION
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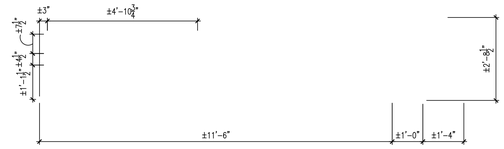
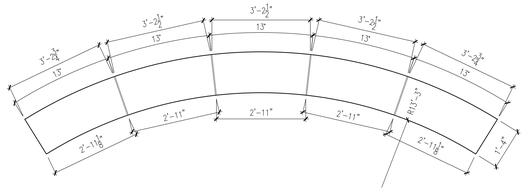
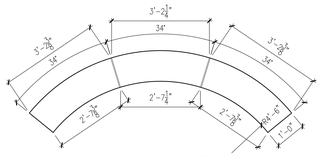


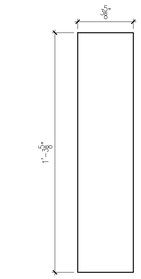
16/4.15 SIGNAGE ELEVATION
1/2" = 1'-0"



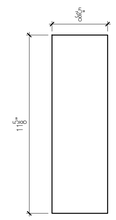
13/4.15 PRECAST ELEVATION
1/2" = 1'-0"



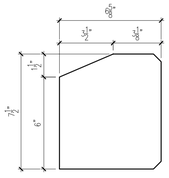
12/4.15 PRECAST ELEVATION
1/2" = 1'-0"



11/4.15 PRECAST SECTION
3" = 1'-0"



10/4.15 PRECAST SECTION
3" = 1'-0"



09/4.15 PRECAST SECTION
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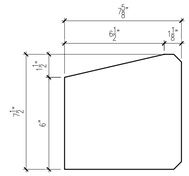

08/4.15 PRECAST SECTION
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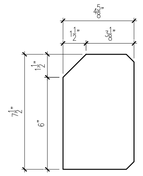

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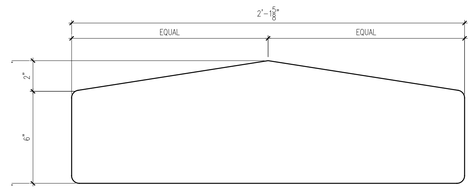
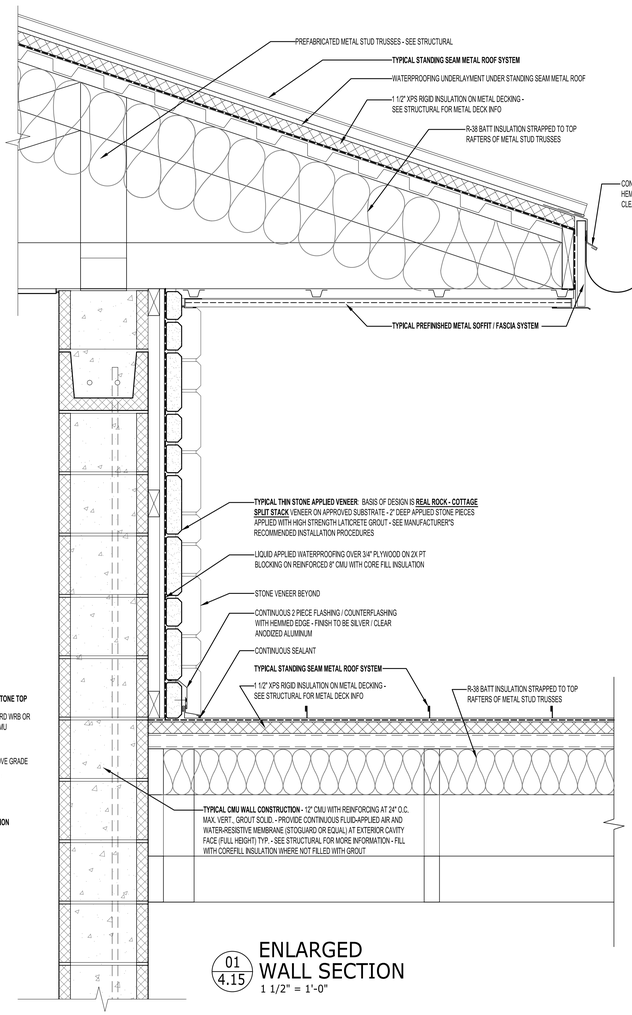
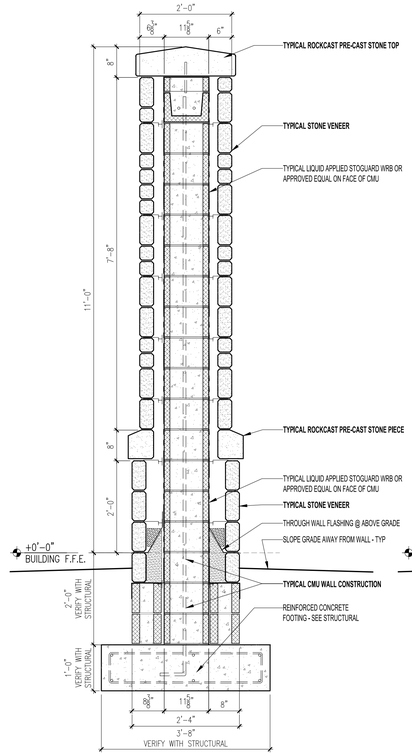


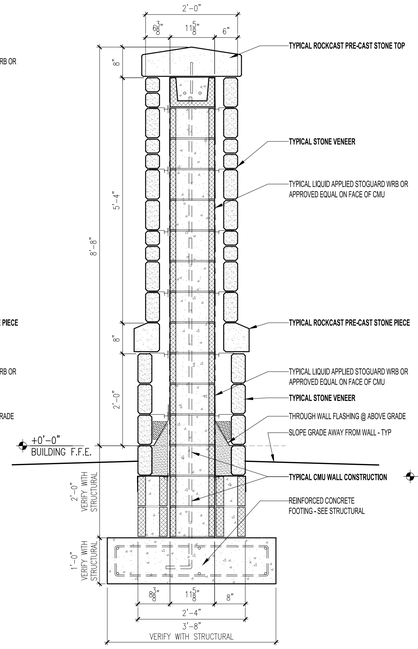
06/4.15 PRECAST SECTION
3" = 1'-0"



01/4.15 ENLARGED WALL SECTION
1 1/2" = 1'-0"



05/4.15 SCREEN WALL SECTION
3/4" = 1'-0"



04/4.15 SCREEN WALL SECTION
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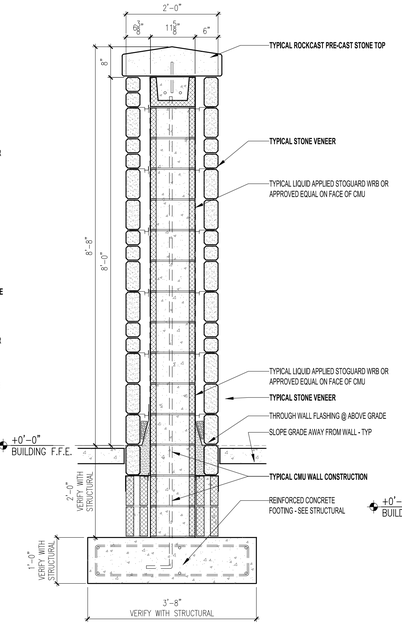
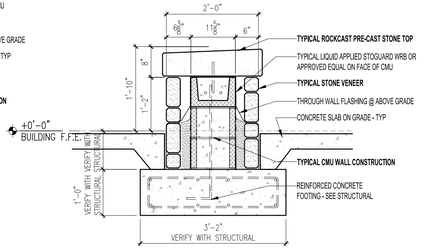


03/4.15 SCREEN WALL SECTION
3/4" = 1'-0"



02/4.15 SEAT WALL SECTION
3/4" = 1'-0"

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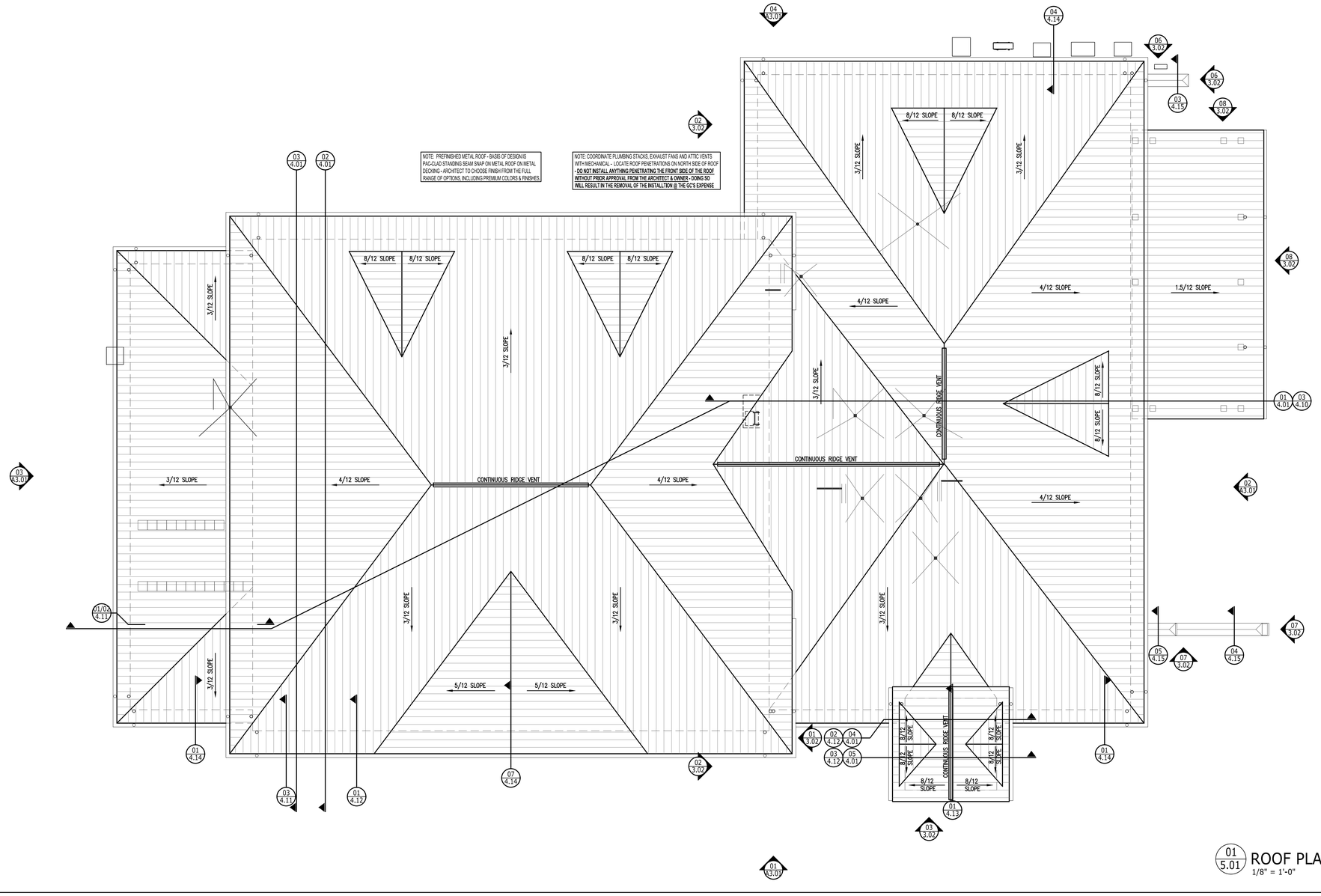

01 5.01 ROOF PLAN
1/8" = 1'-0"

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FIRE STATION #2

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TYPICAL MATERIAL LEGEND

NOTE: CONFIRM ALL MATERIALS, COLORS, & FINISHES WITH THE ARCHITECT & GENERAL CONTRACTOR BEFORE PRICING, PERMITTING, & CONSTRUCTION - NO SUBSTITUTIONS UNLESS PREVIOUSLY APPROVED BY THE ARCHITECT

MATERIAL NUMBER	DESCRIPTION
1	**TYPICAL STANDING SEAM METAL ROOF SYSTEM**: Equal to PAC-CLAD snap on standing seam metal roof system on approved decking - see sections & roof plan sheet for additional information. Architect to choose from manufacturer's full range of colors / finishes including all premium choices
2	**TYPICAL STONE VENEER**: Basis of Design is **Real Rock - Cottage Split Stack** veneer on approved substrate - Provide adjustable masonry wall ties @ 16" OC MAX vertically and 32" MAX horizontally. Provide continuous through wall flashing with mortar mesh & cell vent weeps @ 24" OC MAX.
3	**TYPICAL BRICK VENEER**: Basis of Design is **Taylor Clay Products Modular Wirecut in #322 Gray Color** - Nominal (7 5/8" x 2 1/4" x 3 5/8") brick veneer laid in running bond or soldier course on approved substrate - Provide adjustable masonry wall ties @ 16" OC MAX vertically and 32" MAX horizontally. Provide continuous through wall flashing with mortar mesh & cell vent weeps @ 24" OC MAX.
4	**TYPICAL THIN STONE APPLIED VENEER**: Basis of Design is **Real Rock - Cottage Split Stack** veneer on approved substrate - 2" deep applied stone pieces applied with high strength Laticrete grout - See manufacturer"s recommended installation procedures
5	**TYPICAL ROCKCAST PRE-CAST STONE PIECES**: Custom masonry transitions, sills, arched / straight headers, & signage pieces - See elevations & sections for specific shapes & locations - finishes / colors are to be selected from full range of options - exp/control joints by manufacturer's installation instructions
6	**TYPICAL ALUMINUM STOREFRONT SYSTEM**: Thermally broken aluminum storefront system w/ 1" insulated glazing equal to Kawneer Trifab 451UT Framing System center glazed w/ 2" sightline & 4 1/2" depth & ultra thermal performance, See elevations & specs for additional information. Finish for storefront is either Fire Engine Red (R) or Clear Anodized Aluminum (S)
7	**FOUR-FOLD BI-FOLDING GARAGE DOORS:** Basis of Design is Electric Power Door Fire Station Door - Pre-finished colors from manufacturer's standard color selections - with insulated / tinted glass
8	**SEGMENTED ROLL-UP GARAGE DOORS WITH GLASS:** Prefinished aluminum segmented doors - Basis of Design is from **Overheaddoor.com Aluminum Glass Door EverSerce 521s** - architect to select from full range of standard & premium colors - glass can be insulated or uninsulated and tinted
9	**TYPICAL HOLLOW METAL DOOR:** Typical solid core insulated painted hollow metal door in a hollow metal frame - see specifications
10	**TYPICAL PREFINISHED METAL SOFFIT / FASCIA SYSTEM**: Equal to PAC-CLAD Flush / Smooth Panel System. Architect to choose from manufacturer's full range of colors / finishes including all premium choices
11	**TYPICAL PRE-FINISHED METAL FLASHING:** Prefinished aluminum flashing **WITH HEMMED EDGE** at all dissimilar material joints. See sections & details. Architect to select from colors including premium and custom colors.
12	**GUTTERS, DOWNSPOUTS, & CONDUCTOR HEADS:** Pre-finished half round gutters with circular downspouts booted to storm - or spilled onto splashblock / grade - See drawings
13	**ARCHITECTURAL LOUVERS:** Pre-finished storm_proof aluminum louvers with bug screen - see mechanical information & architectural elevations for sizes and locations - Architect to select finish from full range of color options
14	**EXTERIOR LIGHT FIXTURE:** See Fixture Legend on RCP - finishes are TBD from the full range of available finishes / colors including premium selections - battery back-up is required @ exit doors - see life safety plan for egress locations
15	**TYPICAL PREFINISHED ALUMINUM CANOPY SYSTEM & BRACKETS:** Freestanding aluminum canopy system by TVM or equal - footings by structural - Finish is clear anodized aluminum or approved equal - Brackets are decorative (non_structural) and attached to the sheathing / blocking as required / detailed
16	**TYPICAL CORNER BOLLARD:** Basis of design is Architctural Iron Company (AIC) 12" diameter ductile iron corner bollard
17	**OVERHEAD COILING GARAGE DOOR :** Prefinished aluminum coiling door - Basis of Design is TBD
18	**TYPICAL ALUMINUM CLAD WOOD WINDOWS**: Basis of design is Marvin Ultimate Aluminum Clad Wood Double Hung windows with interior primed pine finish - exterior aluminum clad color to be selected from full range of finishes - use Marvin's installation specifications and instructions

REFLECTED CEILING PLAN LEGEND

NOTE: SEE ELECTRICAL FOR SPECIFIC FIXTURE SPECIFICATIONS AND DETAILS. CEILING SUPPLIES, RETURNS, EQUIPMENT, ETC ARE FOR GENERAL LOCATION PLACEMENT ONLY - SPECIFIC DETAILS, LOCATION, REQUIREMENTS, AND OTHER INFORMATION ABOUT THE HVAC & ELECTRICAL EQUIPMENT IS LOCATED ON THEIR RESPECTIVE DRAWINGS AND SPECIFICATIONS. IF THERE ARE ANY DISCREPANCIES, NOTIFY THE ARCHITECT IMMEDIATELY FOR A CLEAR DIRECTION TO PROCEED

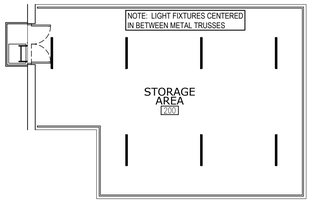
FIXTURE	NUMBER	DESCRIPTION
INTERIOR		
	#1	24" X 24" - SURFACE MOUNTED / LAY-IN - LED FIXTURE
	#2	24" X 48" - SURFACE MOUNTED / LAY-IN - LED FIXTURE
	#3	12" X 48" - SURFACE MOUNTED - LED FIXTURE
	#4	4" X 96" - CEILING SUSPENDED / SURFACE MOUNTED WET RATED - LED FIXTURE
	#5	8" - RECESSED SQUARE / CIRCULAR CAN - LED FIXTURE
	#6	OWNER PROVIDED DECORATIVE PENDANT - PROVIDE J-BOX
	#7	4" X 72" DECORATIVE LINEAR PENDANT - LED FIXTURE
	#8	DECORATIVE PENDANT - LED FIXTURE
	#9	CORRIDOR WALL LIGHTS - LED FIXTURE
	#10	4" X (12" INCREMENTS) RECESSED LINEAR - LED WALL WASH SLOT FIXTURE
	#11	6" X 6" RECESSED SQUARE SHOWER - LED FIXTURE
	#12	SURFACE MOUNTED LINEAR - UNDER CABINET LINEAR LED FIXTURE - LENGTH OF CABINET
	#13	2" X 11" SURFACE MOUNTED LINEAR ADJUSTABLE LED STRIP UPLIGHT - TOWER LINEAR LED FIXTURE
	#14	ATTIC STORAGE FIXTURE
	#15A	LARGE DIAMETER (12' DIAMETER) EXTERIOR BIG ASS FAN (OR EQUAL) INDUSTRIAL FAN @ TRUCK BAYS
	#15B	MEDIUM DIAMETER (6'-8' DIAMETER) EXTERIOR BIG ASS FAN (OR EQUAL) INDUSTRIAL FAN @ CANOPY
	#15C	SMALL DIAMETER (5' DIAMETER) INTERIOR BIG ASS FAN (OR OR EQUAL) FAN @ DAY ROOM
EXTERIOR		
	#16	DECORATIVE EXTERIOR WALL SCONCE - LED FIXTURE
	#17	RECESSED SOFFIT DOWN LIGHT - LED FIXTURE
	#18	EXTERIOR WALL PACK - LED FIXTURE
	#19	EXTERIOR EMERGENCY EGRESS - LED FIXTURE
	#20	4" X 48" - SURFACE MOUNTED OUTDOOR/ WET RATED - LED FIXTURE
	#21	EXTERIOR WET RATED LED UPLIGHTS FOR FLAGPOLE
	#22	EXTERIOR 24" LINEAR WET RATED LED UPLIGHTS

CEILING / SYMBOLS

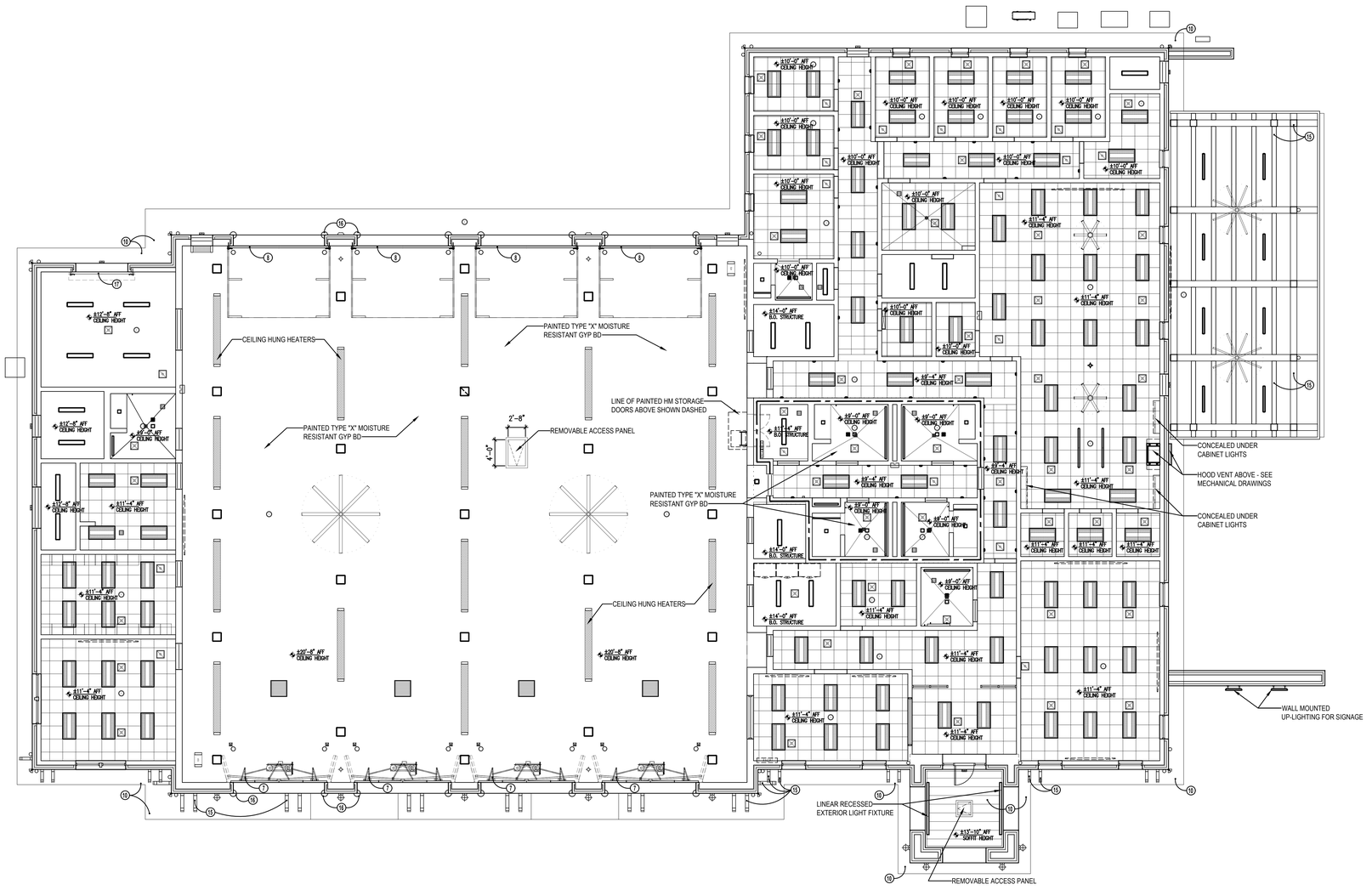
- CEILING HEIGHT INDICATOR
- EXTERIOR CAMERA
- WIRELESS ACCESS POINT
- RECESSED SPEAKER
- CEILING MOUNTED WATER VALVE & CAP
- MECHANICAL SUPPLY FIXTURES
- MECHANICAL RETURN SYMBOL
- EXHAUST VENT SYMBOL
- EXHAUST FAN
- GYP BOARD CEILING
- OPEN TO ABOVE
- 24" X 24" LAY-IN CEILING GRID
- WALL MOUNTED EXHAUST FAN
- EMERGENCY EXHAUST SYSTEM SWITCH
- 11'-2" X 12" CEILING SUSPENDED ELIH TUBE HEATERS - SEE MECHANICAL
- ELIH
- ELECTRIC UNIT HEATER

NOTES

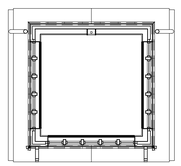
- PROVIDE ATTIC STORAGE FIXTURES IN ALL FLOORED ATTIC STORAGE SPACES TO PROVIDE SUFFICIENT ILLUMINATION - WHICH WILL BE +/- 1 FIXTURE PER 200 SQUARE FEET
- PROVIDE 3/4" TONGUE & GROOVED PRT PLYWOOD FLOOR DECKING FOR ACCESS FROM CEILING ACCESS PANEL TO ANY EQUIPMENT INSIDE THE ATTIC OVER THE TRUCK BAYS



02 / 6.01 REFLECTING CEILING PLAN @ TOWER
1/8" = 1'-0"



01 / 6.01 REFLECTING CEILING PLAN
1/8" = 1'-0"



02 / 6.01 REFLECTING CEILING PLAN @ TOWER
1/8" = 1'-0"

STATE OF ALABAMA — Registered Architect — Blakeney S. Nelson 6153

ISSUED FOR:
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OCTOBER 31, 2024

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SHEET TITLE
REFLECTED CEILING PLAN

PROJECT NUMBER
1917

ISSUE DATE
10/31/2024

DRAWN BY

CHECKED BY
BN

SHEET NUMBER
A6.01

FIRE STATION #2

PLOT DATE: 11/19/2024 8:45 PM

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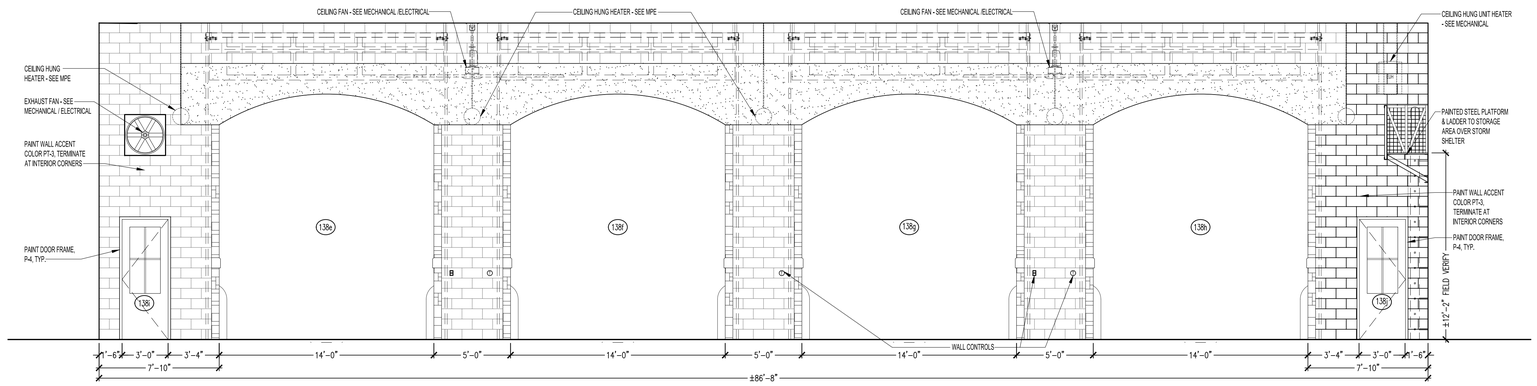
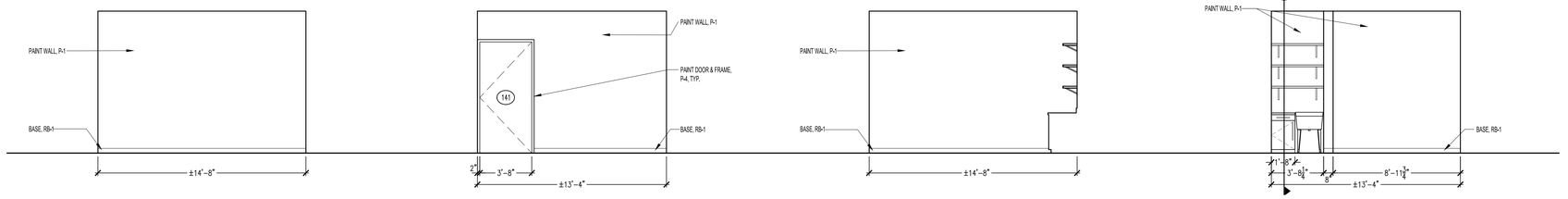
NOTE: CUSTOM BUILT SOLID WOOD / 3/4" PLYWOOD SHOP PAINTED CABINETS WITH FLAT PANEL / SHAKER STYLE DOORS & PANELS ARE LOCATED IN THE KITCHEN, KITCHEN ISLAND, DINING BAR AREA, AND THE DAY ROOM TELEVISION CABINET AREA - ALL OTHER CABINETS ARE 3/4" PLYWOOD WITH PLASTIC LAMINATE FINISH

NOTE: VERIFY SIZE & INSTALLATION TYPE & REQUIREMENTS FOR ALL APPLIANCES, MECHANICAL, ELECTRICAL, & PLUMBING FIXTURES BEFORE ANY MILLWORK IS CONSTRUCTED AND/ OR INSTALLED



13 A7.01 INTERIOR ELEVATION @ TRUCK BAYS
1/4" = 1'-0"

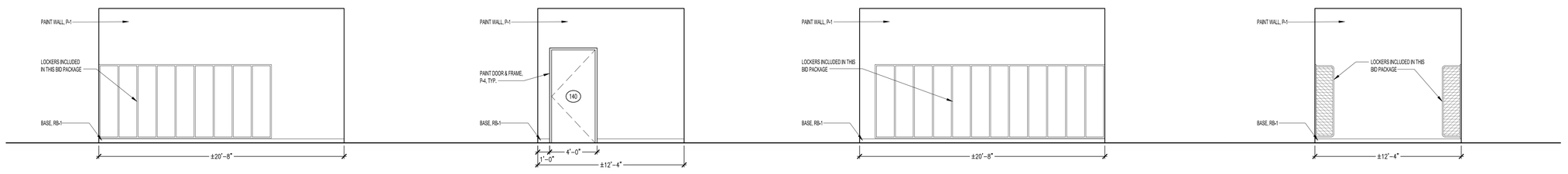


12 A7.01 INTERIOR ELEVATION @ DECON. ROOM
1/4" = 1'-0"

11 A7.01 INTERIOR ELEVATION @ DECON. ROOM
1/4" = 1'-0"

10 A7.01 INTERIOR ELEVATION @ DECON. ROOM
1/4" = 1'-0"

09 A7.01 INTERIOR ELEVATION @ DECON. ROOM
1/4" = 1'-0"

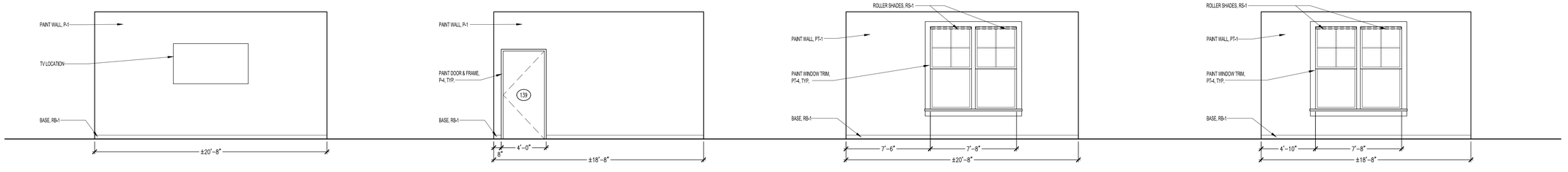


08 A7.01 INTERIOR ELEVATION @ P.P.E. ROOM
1/4" = 1'-0"

07 A7.01 INTERIOR ELEVATION @ P.P.E. ROOM
1/4" = 1'-0"

06 A7.01 INTERIOR ELEVATION @ P.P.E. ROOM
1/4" = 1'-0"

05 A7.01 INTERIOR ELEVATION @ P.P.E. ROOM
1/4" = 1'-0"



04 A7.01 INTERIOR ELEVATION @ EXERCISE ROOM
1/4" = 1'-0"

03 A7.01 INTERIOR ELEVATION @ EXERCISE ROOM
1/4" = 1'-0"

02 A7.01 INTERIOR ELEVATION @ EXERCISE ROOM
1/4" = 1'-0"

01 A7.01 INTERIOR ELEVATION @ EXERCISE ROOM
1/4" = 1'-0"

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Registered Architect
Blakeney S. Nelson
6153

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SHEET TITLE
INTERIOR ELEVATIONS & DETAILS

PROJECT NUMBER
1917

ISSUE DATE
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SHEET NUMBER
A7.01

FIRE STATION #2

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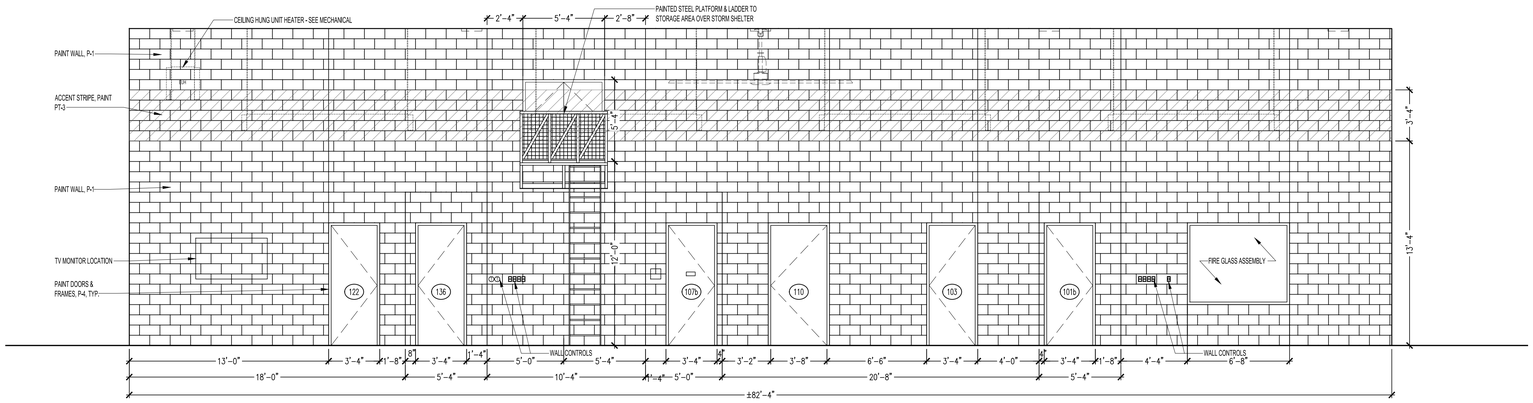
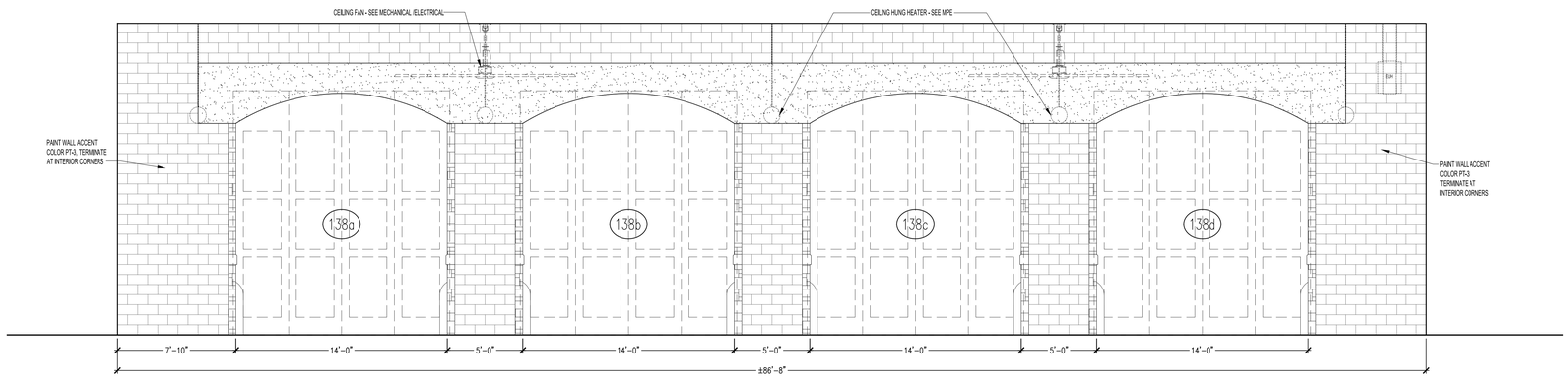
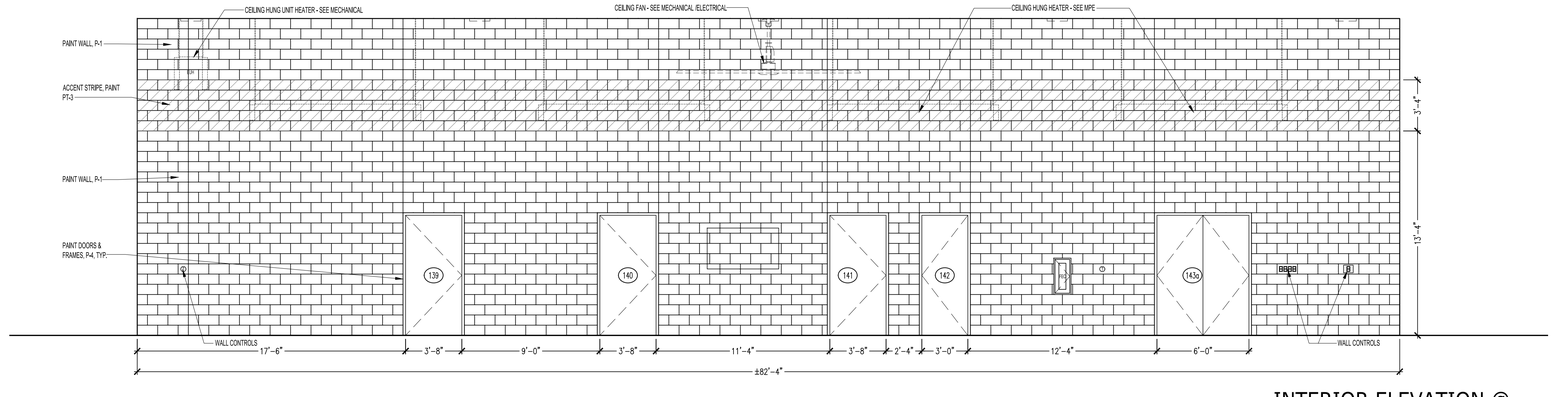


03 A7.02 INTERIOR ELEVATION @ TRUCK BAYS
1/4" = 1'-0"



02 A7.02 INTERIOR ELEVATION @ TRUCK BAYS
1/4" = 1'-0"



01 A7.02 INTERIOR ELEVATION @ TRUCK BAYS
1/4" = 1'-0"

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Registered Architect
Blakeney S. Nelson
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Signature

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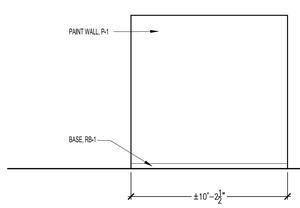
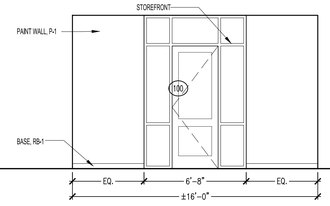
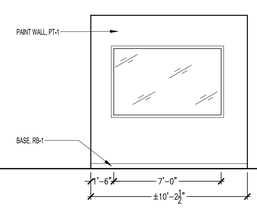


18 A7.03 INTERIOR ELEVATION @ VESTIBULE
1/4" = 1'-0"



17 A7.03 INTERIOR ELEVATION @ VESTIBULE
1/4" = 1'-0"



16 A7.03 INTERIOR ELEVATION @ VESTIBULE
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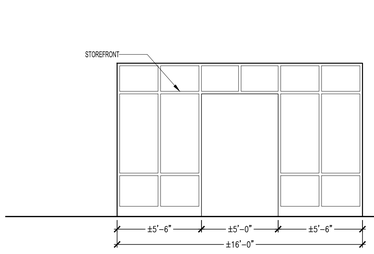

15 A7.03 INTERIOR ELEVATION @ VESTIBULE
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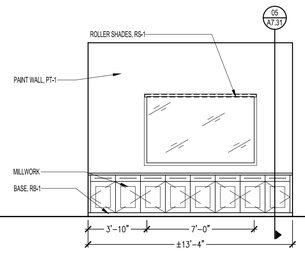
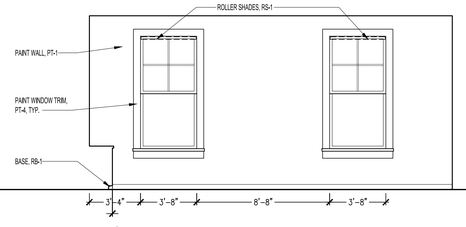
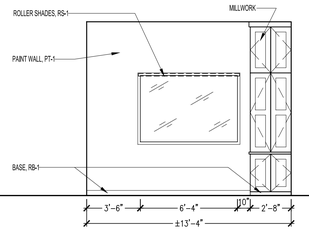


14 A7.03 INTERIOR ELEVATION @ OPERATIONS ROOM
1/4" = 1'-0"



13 A7.03 INTERIOR ELEVATION @ OPERATIONS ROOM
1/4" = 1'-0"



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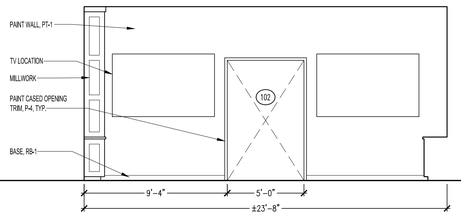
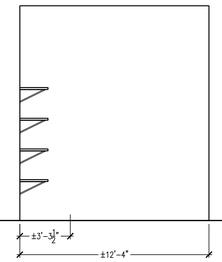
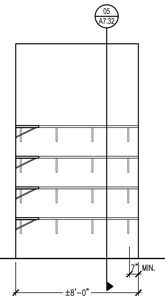


11 A7.03 INTERIOR ELEVATION @ OPERATIONS ROOM
1/4" = 1'-0"



10 A7.03 INTERIOR ELEVATION @ TOOLS
1/4" = 1'-0"



09 A7.03 INTERIOR ELEVATION @ TOOLS
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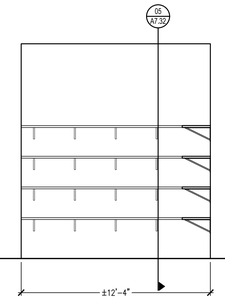

08 A7.03 INTERIOR ELEVATION @ TOOLS
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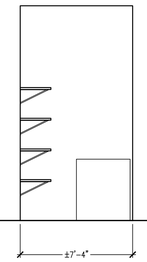
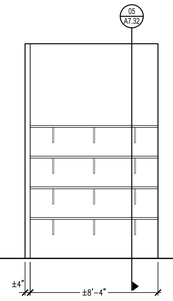


07 A7.03 INTERIOR ELEVATION @ INVERTER/STORAGE
1/4" = 1'-0"



06 A7.03 INTERIOR ELEVATION @ INVERTER/STORAGE
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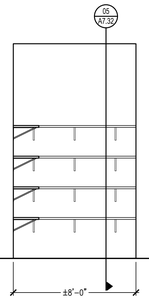
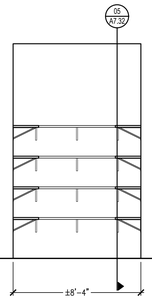
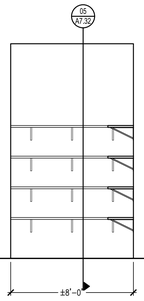


05 A7.03 INTERIOR ELEVATION @ CHARGING
1/4" = 1'-0"



04 A7.03 INTERIOR ELEVATION @ CHARGING
1/4" = 1'-0"



03 A7.03 INTERIOR ELEVATION @ CHARGING
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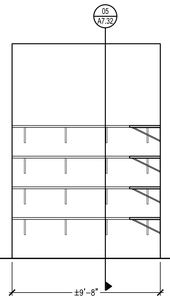
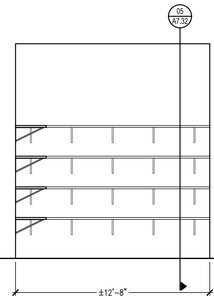


02 A7.03 INTERIOR ELEVATION @ EMS STORAGE
1/4" = 1'-0"



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REVISIONS

SHEET TITLE
INTERIOR ELEVATIONS & DETAILS

PROJECT NUMBER
1917

ISSUE DATE
10/31/2024

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XX

CHECKED BY
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SHEET NUMBER
A7.03

ABSOLUTELY NO MDF / IDF / PARTICAL BOARD / ORIENTED STRAND BOARD/ OSV WILL BE ACCEPTED IN MILLWORK / CASEWORK / TRIM / BLOCKING / COUNTERTOP UNDERLAYMENT/ ETC - ONLY 3/4" PLYWOOD IS ACCEPTABLE - SEE DETAILS TO DETERMINE IF THE PLYWOOD IS TO BE FRT OR NOT

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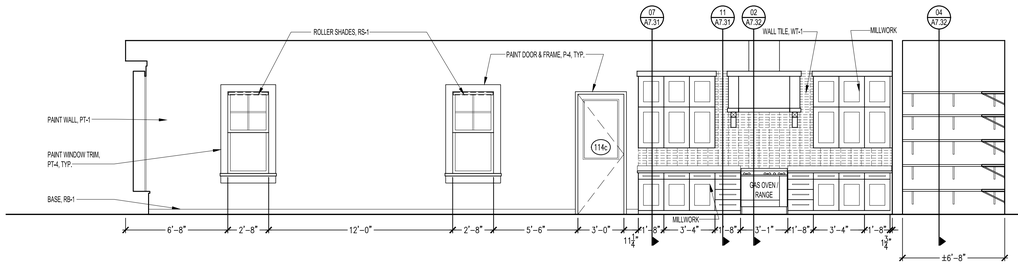
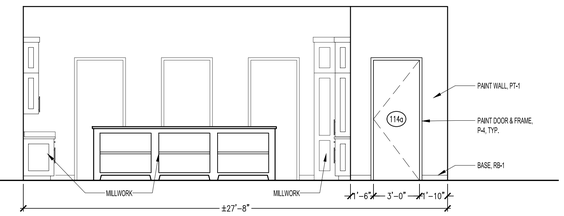


11 A7.04 INTERIOR ELEVATION @ KITCHEN
1/4" = 1'-0"



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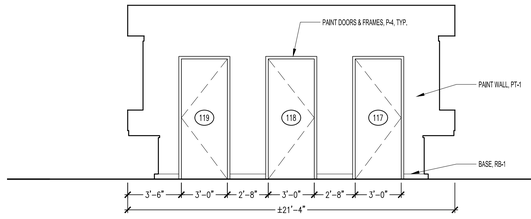
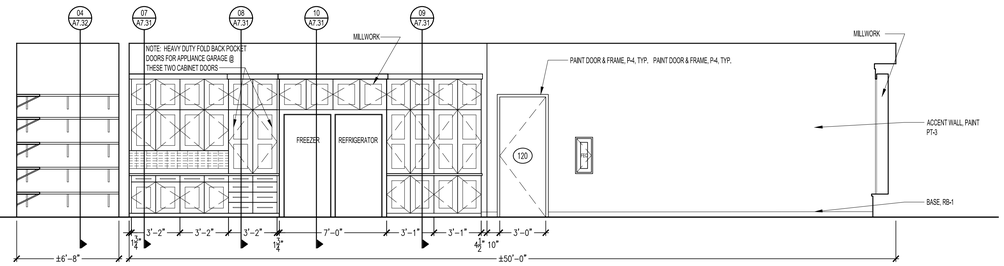
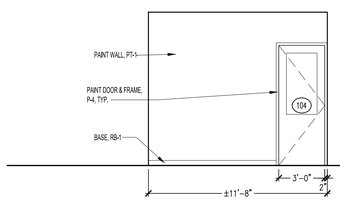
1/4" = 1'-0"



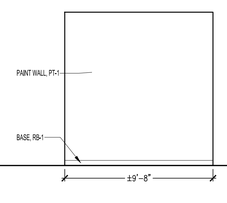
09 A7.04 INTERIOR ELEVATION @ KITCHEN
1/4" = 1'-0"



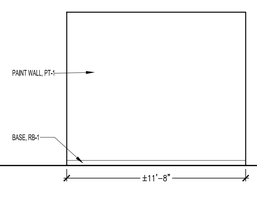
08 A7.04 INTERIOR ELEVATION @ KITCHEN
1/4" = 1'-0"



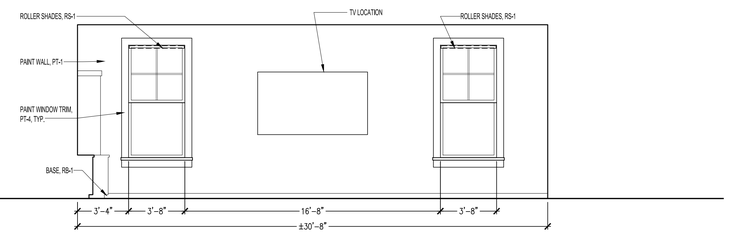
07 A7.04 INTERIOR ELEVATION @ OFFICE
1/4" = 1'-0"



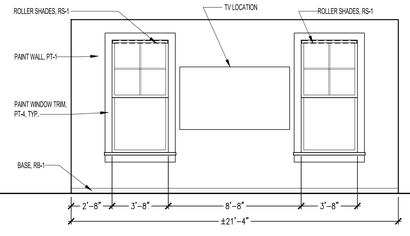
06 A7.04 INTERIOR ELEVATION @ OFFICE
1/4" = 1'-0"



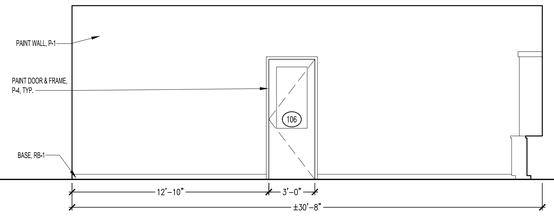
05 A7.04 INTERIOR ELEVATION @ OFFICE
1/4" = 1'-0"



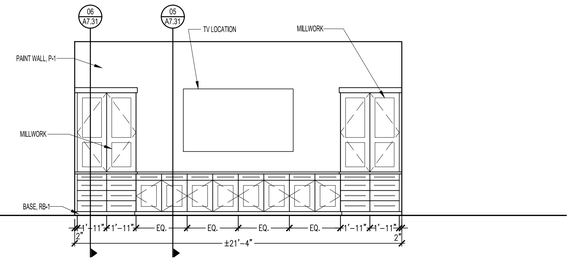
04 A7.04 INTERIOR ELEVATION @ CONFERENCE/TRAINING RM
1/4" = 1'-0"



03 A7.04 INTERIOR ELEVATION @ CONFERENCE/TRAINING RM
1/4" = 1'-0"



02 A7.04 INTERIOR ELEVATION @ CONFERENCE/TRAINING RM
1/4" = 1'-0"



01 A7.04 INTERIOR ELEVATION @ CONFERENCE/TRAINING RM
1/4" = 1'-0"

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Registered Architect
Blakeney S. Nelson
6153

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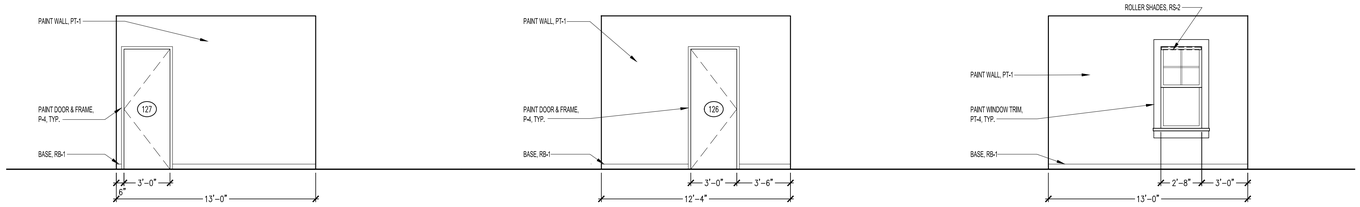
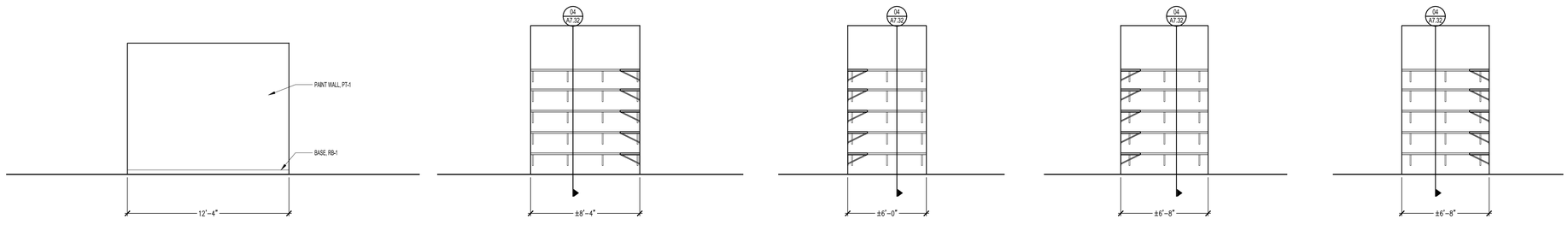


18 A7.05 INTERIOR ELEVATION @ OFFICER'S BUNK
1/4" = 1'-0"

17 A7.05 INTERIOR ELEVATION @ OFFICER'S BUNK
1/4" = 1'-0"

16 A7.05 INTERIOR ELEVATION @ OFFICER'S BUNK
1/4" = 1'-0"



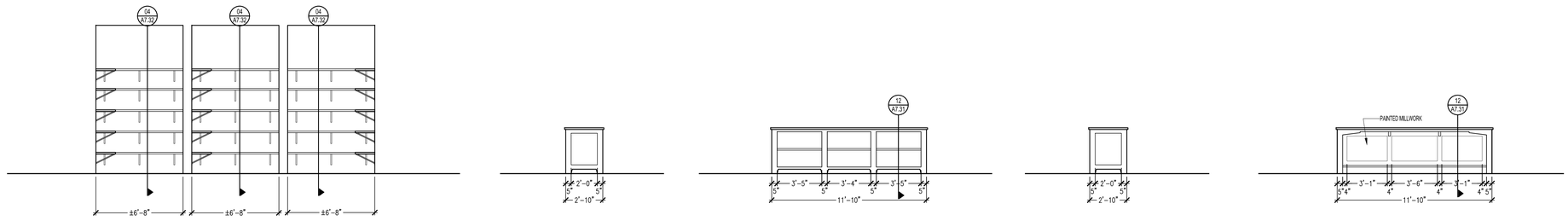
15 A7.05 INTERIOR ELEVATION @ OFFICER'S BUNK
1/4" = 1'-0"

14 A7.05 INTERIOR ELEVATION @ PANTRY #4
1/4" = 1'-0"

13 A7.05 INTERIOR ELEVATION @ PANTRY #4
1/4" = 1'-0"

12 A7.05 INTERIOR ELEVATION @ PANTRY #1
1/4" = 1'-0"

11 A7.05 INTERIOR ELEVATION @ PANTRY #2 & #3
1/4" = 1'-0"



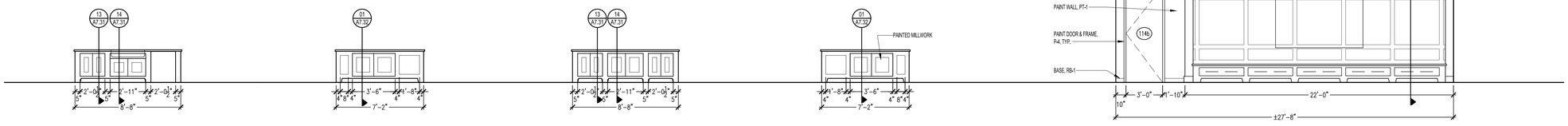
10 A7.05 INTERIOR ELEVATION @ PANTRY #1, #2, & #3
1/4" = 1'-0"

09 A7.05 INTERIOR ELEVATION @ KITCHEN ISLAND 2
1/4" = 1'-0"

08 A7.05 INTERIOR ELEVATION @ KITCHEN ISLAND 2
1/4" = 1'-0"

07 A7.05 INTERIOR ELEVATION @ KITCHEN ISLAND 2
1/4" = 1'-0"

06 A7.05 INTERIOR ELEVATION @ KITCHEN ISLAND 2
1/4" = 1'-0"



05 A7.05 INTERIOR ELEVATION @ KITCHEN ISLAND 1
1/4" = 1'-0"

04 A7.05 INTERIOR ELEVATION @ KITCHEN ISLAND 1
1/4" = 1'-0"

03 A7.05 INTERIOR ELEVATION @ KITCHEN ISLAND 1
1/4" = 1'-0"

02 A7.05 INTERIOR ELEVATION @ KITCHEN ISLAND 1
1/4" = 1'-0"

01 A7.05 INTERIOR ELEVATION @ DAY ROOM
1/4" = 1'-0"

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STATE OF ALABAMA
Registered Architect
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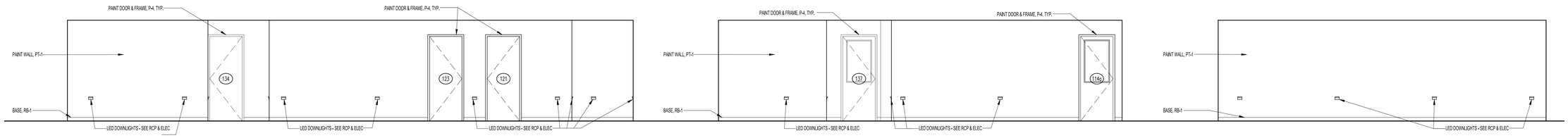
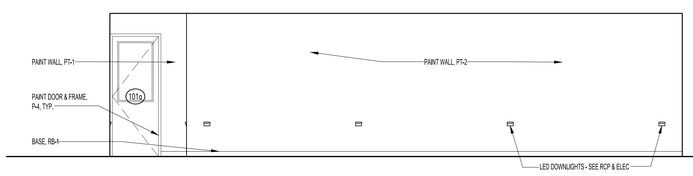


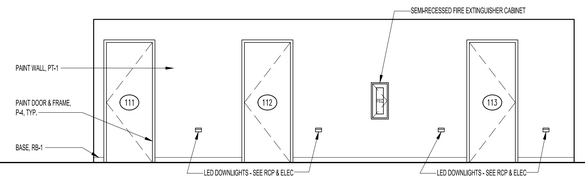
14 A7.06 INTERIOR ELEVATION @ CORRIDOR
1/4" = 1'-0"

13 A7.06 INTERIOR ELEVATION @ CORRIDOR
1/4" = 1'-0"

12 A7.06 INTERIOR ELEVATION @ CORRIDOR
1/4" = 1'-0"



11 A7.06 INTERIOR ELEVATION @ CORRIDOR
1/4" = 1'-0"



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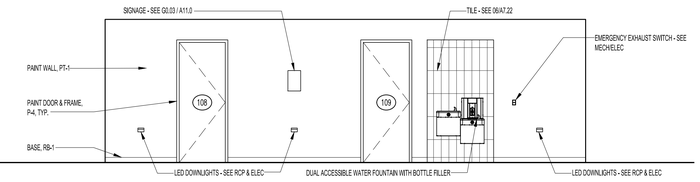
1/4" = 1'-0"



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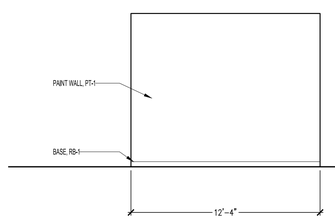
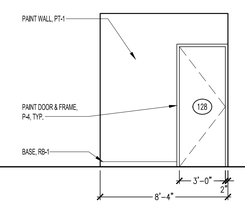
1/4" = 1'-0"



08 A7.06 INTERIOR ELEVATION @ BUNK #1
1/4" = 1'-0"



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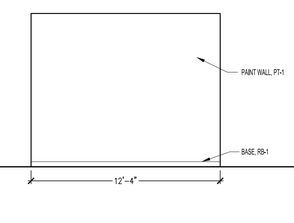

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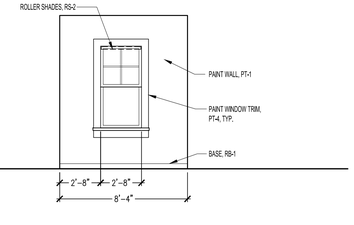
1/4" = 1'-0"



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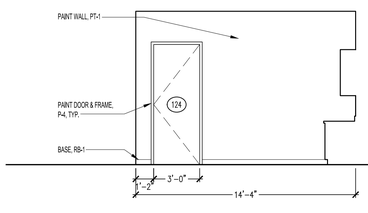
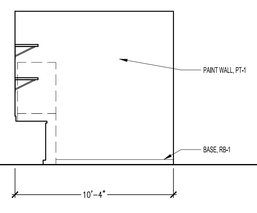
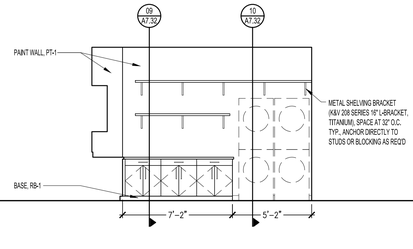
1/4" = 1'-0"



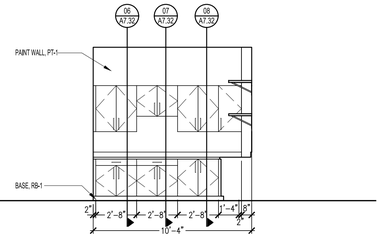
04 A7.06 INTERIOR ELEVATION @ LAUNDRY
1/4" = 1'-0"



03 A7.06 INTERIOR ELEVATION @ LAUNDRY
1/4" = 1'-0"



02 A7.06 INTERIOR ELEVATION @ LAUNDRY
1/4" = 1'-0"



01 A7.06 INTERIOR ELEVATION @ LAUNDRY
1/4" = 1'-0"

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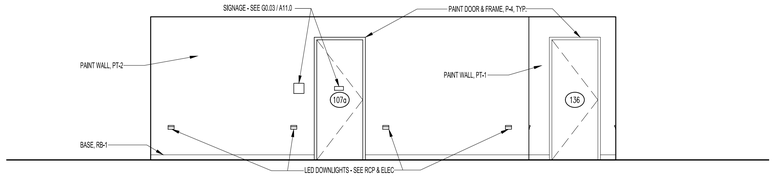

03 A7.07 INTERIOR ELEVATION @ CORRIDOR
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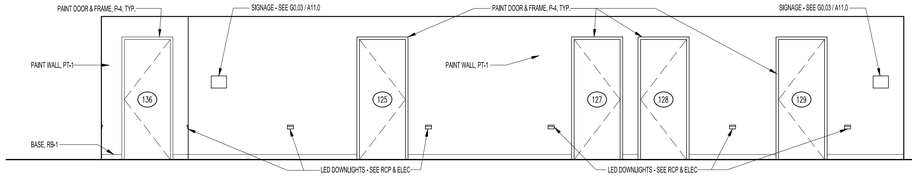

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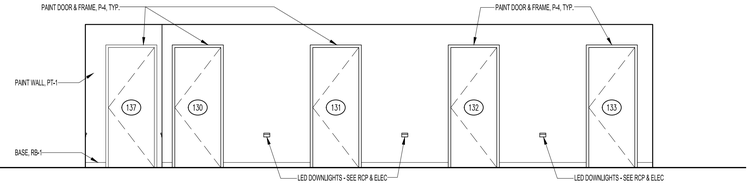

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TOILET ACCESSORIES LEGEND		
A	HORIZONTAL GRAB BAR 48"	BOBRICK B-6806
B	HORIZONTAL GRAB BAR 36"	BOBRICK B-6806
C	VERTICAL GRAB BAR 18"	BOBRICK B-6806
D	NOT USED	
E	NOT USED	
F	NOT USED	
G	HORIZONTAL SHOWER GRAB BAR	BOBRICK B-6861
H	ADA SHOWER FOLDING SEAT	BOBRICK B-5181
J	ROBE HOOK	BOBRICK B-76717
K	TOWEL BAR	BOBRICK B-673
L	SHOWER CURTAIN ROD	TBD
M	CLIP MOUNTED MIRROR (SEE ELEV. FOR SIZE)	TBD
N	KOALA KARE STAINLESS STEEL BABY CHANGING STATION	KB310-SSWM

GENERAL TOILET NOTES:
1. OWNER TO VERIFY ALL TOILET ACCESSORIES
2. COORD. TILE LAYOUT W/ INTERIOR DESIGNER PRIOR TO INSTALLATION
3. PROVIDE BLOCKING (IF REQUIRED) FOR ACCESSORIES PER INSTALLATION DRAWINGS

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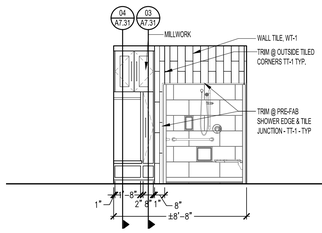
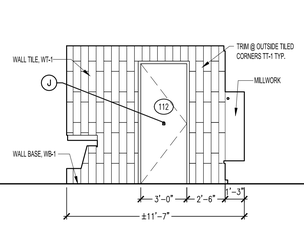
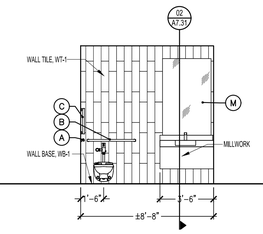


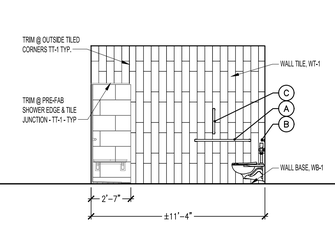
21 A7.21 INTERIOR ELEVATION @ TOILET 112
1/4" = 1'-0"



20 A7.21 INTERIOR ELEVATION @ TOILET 112
1/4" = 1'-0"



19 A7.21 INTERIOR ELEVATION @ TOILET 112
1/4" = 1'-0"



18 A7.21 INTERIOR ELEVATION @ TOILET 112
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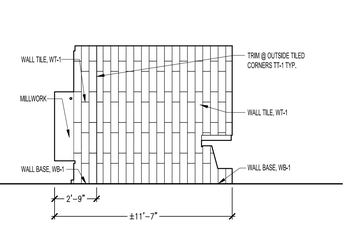
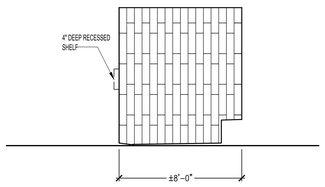
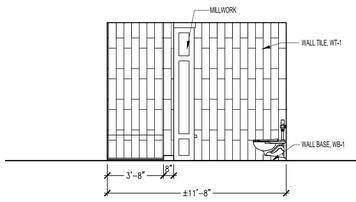


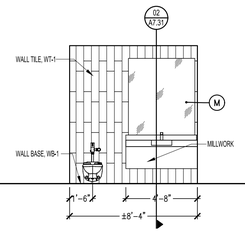
17 A7.21 INTERIOR ELEVATION @ TOILET 112
1/4" = 1'-0"



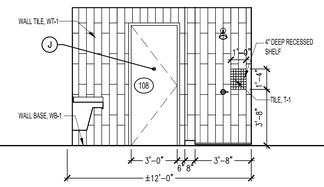
16 A7.21 INTERIOR ELEVATION @ TOILET 108
1/4" = 1'-0"



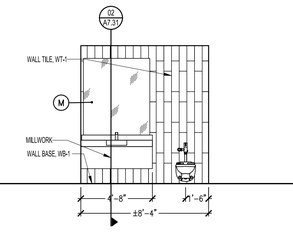
15 A7.21 INTERIOR ELEVATION @ TOILET 108
1/4" = 1'-0"



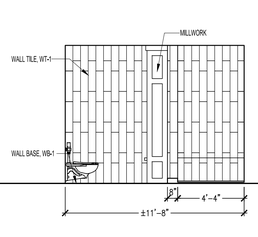
14 A7.21 INTERIOR ELEVATION @ TOILET 108
1/4" = 1'-0"



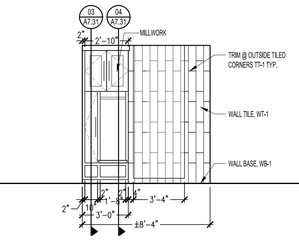
13 A7.21 INTERIOR ELEVATION @ TOILET 108
1/4" = 1'-0"



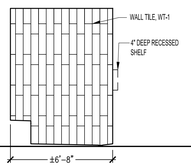
12 A7.21 INTERIOR ELEVATION @ TOILET 109
1/4" = 1'-0"



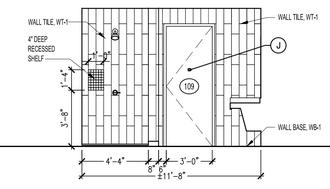
11 A7.21 INTERIOR ELEVATION @ TOILET 109
1/4" = 1'-0"



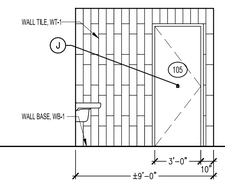
10 A7.21 INTERIOR ELEVATION @ TOILET 109
1/4" = 1'-0"



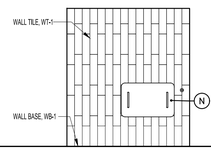
09 A7.21 INTERIOR ELEVATION @ TOILET 109
1/4" = 1'-0"



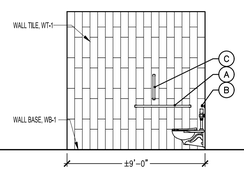
08 A7.21 INTERIOR ELEVATION @ TOILET 109
1/4" = 1'-0"



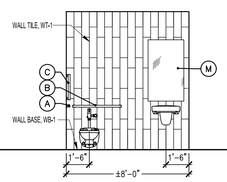
07 A7.21 INTERIOR ELEVATION @ TOILET 105
1/4" = 1'-0"



06b A7.21 INTERIOR ELEVATION @ TOILET 105
1/4" = 1'-0"



06a A7.21 INTERIOR ELEVATION @ TOILET 105
1/4" = 1'-0"



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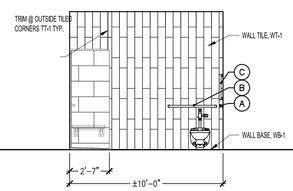
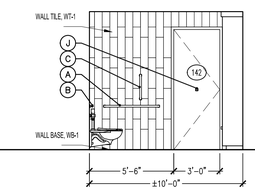
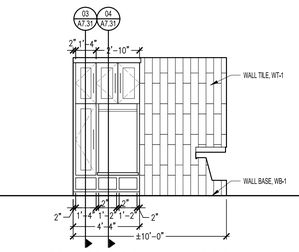
1/4" = 1'-0"



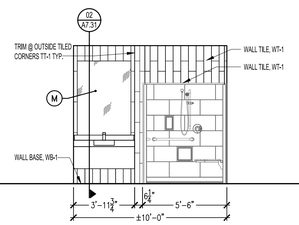
04 A7.21 INTERIOR ELEVATION @ TOILET 142
1/4" = 1'-0"



03 A7.21 INTERIOR ELEVATION @ TOILET 142
1/4" = 1'-0"



02 A7.21 INTERIOR ELEVATION @ TOILET 142
1/4" = 1'-0"



01 A7.21 INTERIOR ELEVATION @ TOILET 142
1/4" = 1'-0"

PLOT DATE: 11/19/2024, 8:47 PM

STATE OF ALABAMA
Registered Architect
Blakeney S. Nelson
6153

ISSUED FOR:
BID / CONSTRUCTION DOCUMENTS
OCTOBER 31, 2024

A NEW FACILITY FOR:
Pell City
FIRE STATION #2
2911 MARTIN STREET SOUTH
CROPWELL, AL 35054

GREAT SEAL OF PELL CITY, ALABAMA
City of Pell City
1905 1st Avenue North
Pell City, AL 35125
(205) 338-2244

CMH ARCHITECTS
1800 International Park Drive
Suite 300
Birmingham, Alabama 35243
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REVISIONS

SHEET TITLE
RESTROOM INTERIOR ELEVATIONS & DETAILS

PROJECT NUMBER
1917

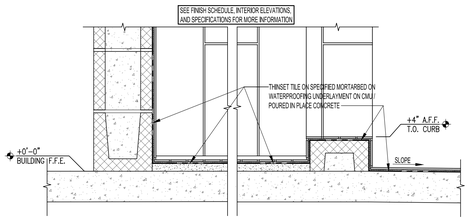
ISSUE DATE
10/31/2024

DRAWN BY

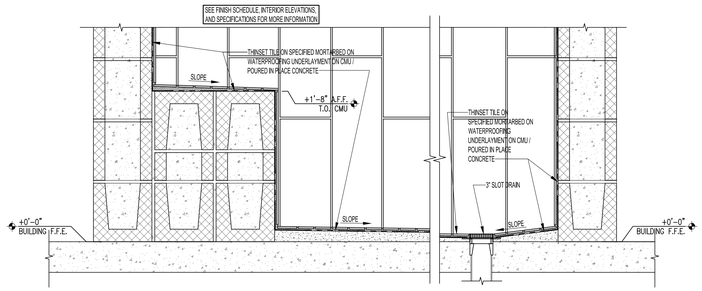
CHECKED BY
BN

SHEET NUMBER
A7.21

FIRE STATION #2



18 A7.22 ENLARGED SECTION THROUGH SHOWER
1 1/2" = 1'-0"



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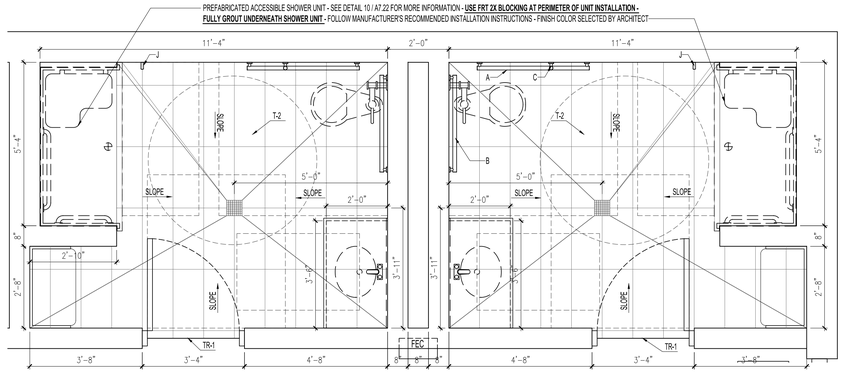

16 A7.22 ENLARGED RESTROOM 112 & 113
1/2" = 1'-0"

TOILET ACCESSORIES LEGEND		
A	HORIZONTAL GRAB BAR 42"	BOBRICK B-6806
B	HORIZONTAL GRAB BAR 36"	BOBRICK B-6806
C	VERTICAL GRAB BAR 18"	BOBRICK B-6806
D	NOT USED	
E	NOT USED	
F	NOT USED	
G	HORIZONTAL SHOWER GRAB BAR	BOBRICK B-6861
H	ADA SHOWER FOLDING SEAT	BOBRICK B-5181
J	ROBE HOOK	BOBRICK B-76717
K	TOWEL BAR	BOBRICK B-673
L	SHOWER CURTAIN ROD	TBD
M	CLIP MOUNTED MIRROR (SEE ELEV. FOR SIZE)	TBD
N	KOALA KARE STAINLESS STEEL BABY CHANGING STATION	KB310-SSWM

GENERAL TOILET NOTES:
1. OWNER TO VERIFY ALL TOILET ACCESSORIES
2. COORD. TILE LAYOUT W/ INTERIOR DESIGNER PRIOR TO INSTALLATION
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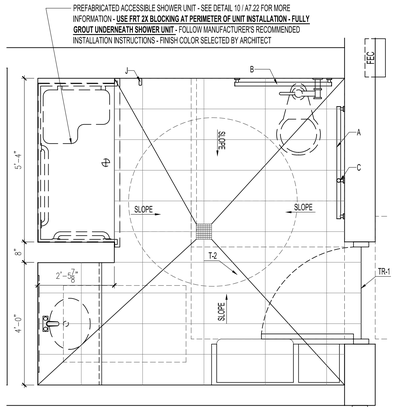
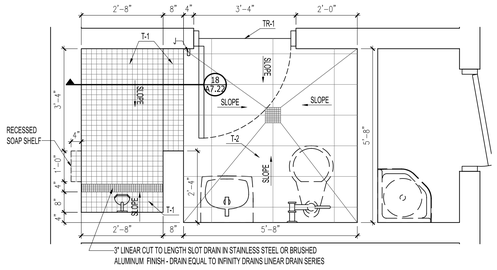
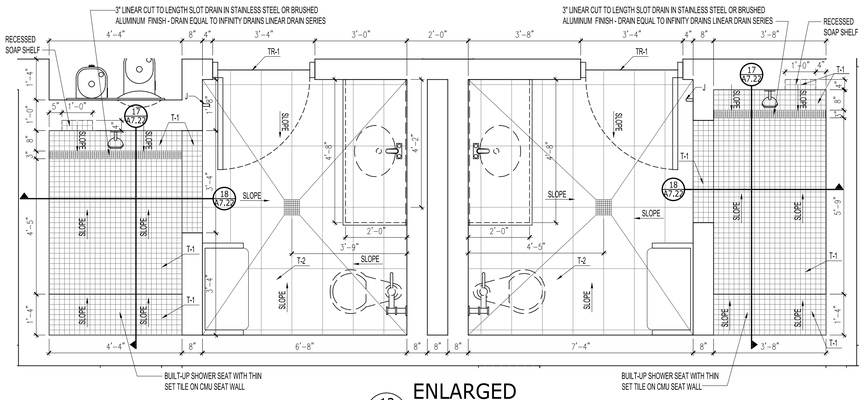


15 A7.22 ENLARGED RESTROOM 142
1/2" = 1'-0"



14 A7.22 ENLARGED RESTROOM 126
1/2" = 1'-0"



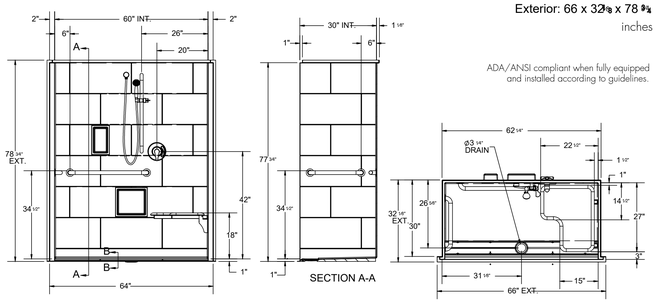
13 A7.22 ENLARGED RESTROOM 108 & 109
1/2" = 1'-0"

TECHNICAL SPECIFICATIONS

APFXST6232LDCOL

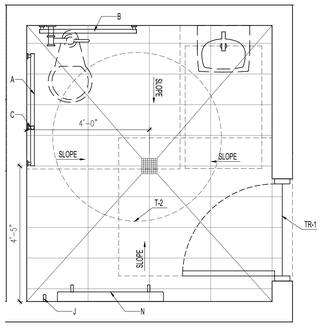
With Seat
Interior: 60 x 30 x 76¾
Exterior: 66 x 32⅛ x 78 ¾
inches

ADA/ANSI compliant when fully equipped and installed according to guidelines.

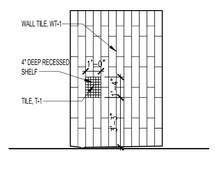


Shown with available seat, grab bars, soap dishes and plumbing fixtures

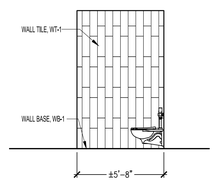
11 A7.22 PRE-FAB ACCESSIBLE SHOWER UNIT INFO
1/2" = 1'-0"



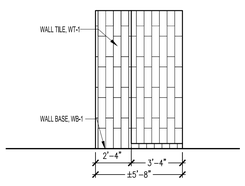
12 A7.22 ENLARGED RESTROOM 105
1/2" = 1'-0"



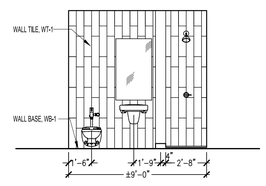
10 A7.22 INTERIOR ELEVATION @ BATHROOM 126
1/4" = 1'-0"



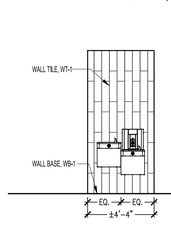
09 A7.22 INTERIOR ELEVATION @ BATHROOM 126
1/4" = 1'-0"



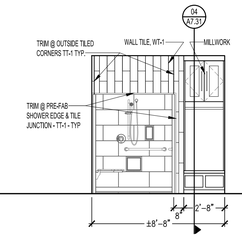
08 A7.22 INTERIOR ELEVATION @ BATHROOM 126
1/4" = 1'-0"



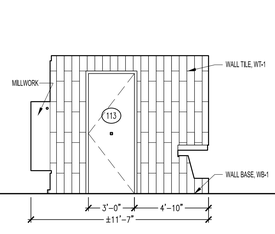
07 A7.22 INTERIOR ELEVATION @ BATHROOM 126
1/4" = 1'-0"



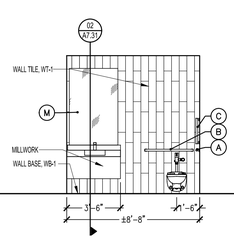
06 A7.22 INTERIOR ELEVATION @ WATER FOUNTAIN
1/4" = 1'-0"



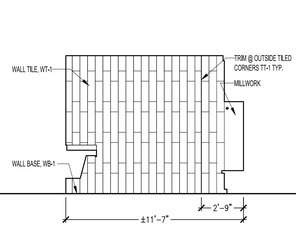
05 A7.22 INTERIOR ELEVATION @ TOILET 113
1/4" = 1'-0"



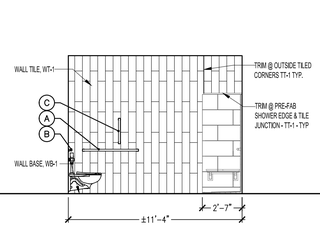
04 A7.22 INTERIOR ELEVATION @ TOILET 113
1/4" = 1'-0"



03 A7.22 INTERIOR ELEVATION @ TOILET 113
1/4" = 1'-0"



02 A7.22 INTERIOR ELEVATION @ TOILET 113
1/4" = 1'-0"



01 A7.22 INTERIOR ELEVATION @ TOILET 113
1/4" = 1'-0"

PLOT DATE: 11/19/2024 4:47 PM

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Pell City
FIRE STATION #2
2911 MARTIN STREET SOUTH
CROPWELL, AL 35054

ISSUED FOR:
BID / CONSTRUCTION DOCUMENTS
OCTOBER 31, 2024

STATE OF ALABAMA — Registered Architect — Blakeney S. Nelson 6153

GREAT SEAL OF PELL CITY, ALABAMA

City of Pell City
1905 1st Avenue North
Pell City, AL 35125
(205) 338-2244

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1800 International Park Drive
Suite 300
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REVISIONS

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RESTROOM INTERIOR ELEVATIONS & DETAILS

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CHECKED BY
BN

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FIRE STATION #2

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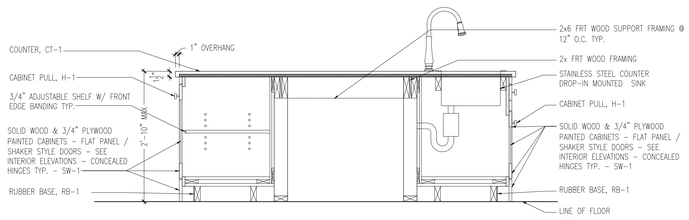
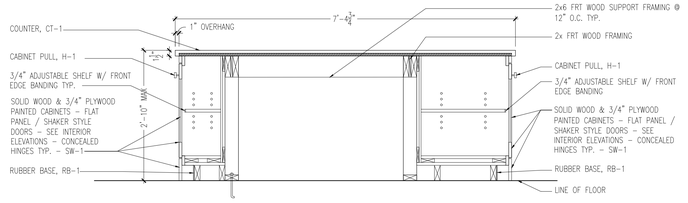


14 A7.31 MILLWORK SECTION
3/4" = 1'-0"



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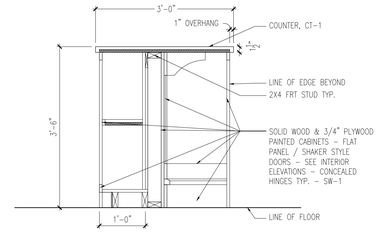

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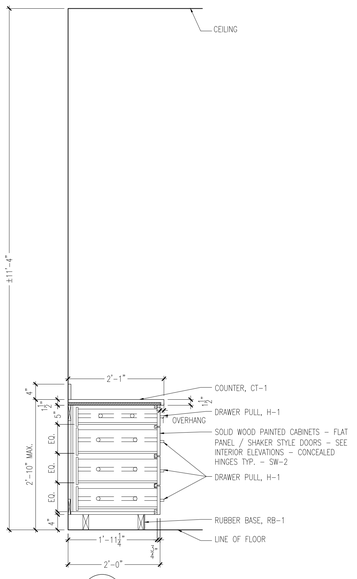

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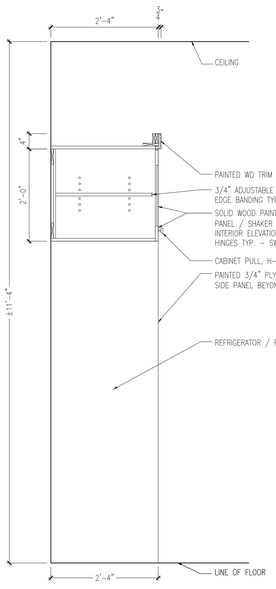

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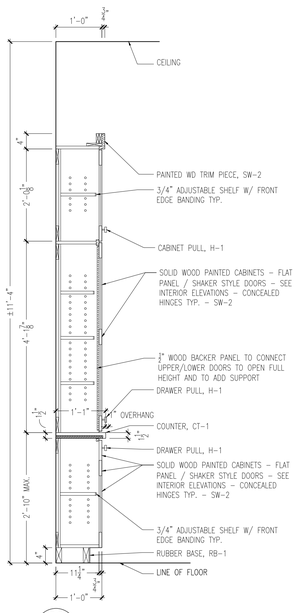

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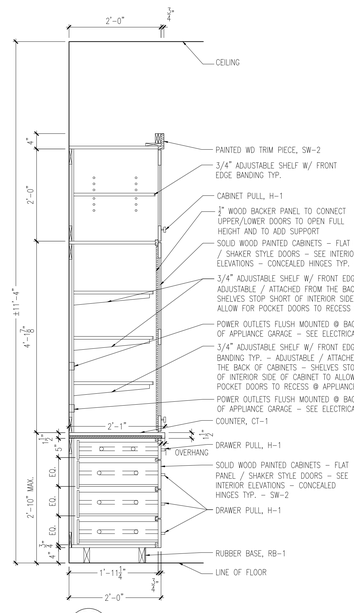

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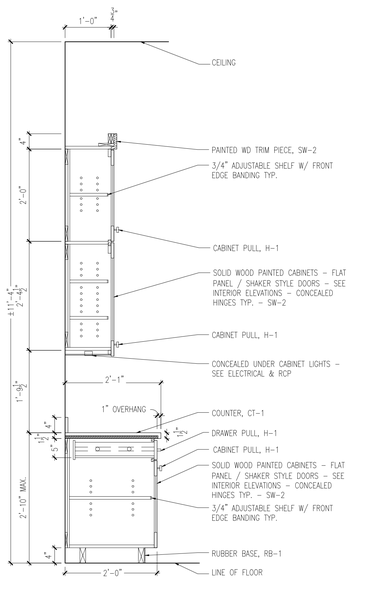

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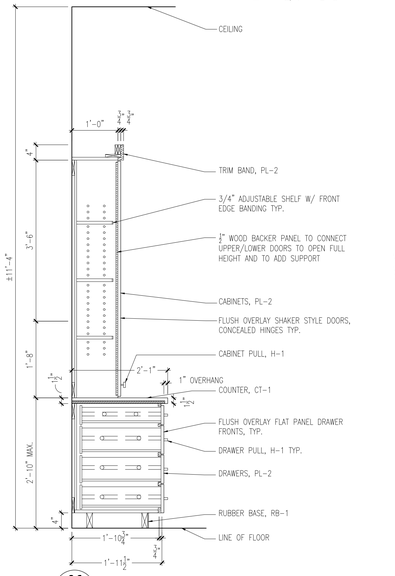

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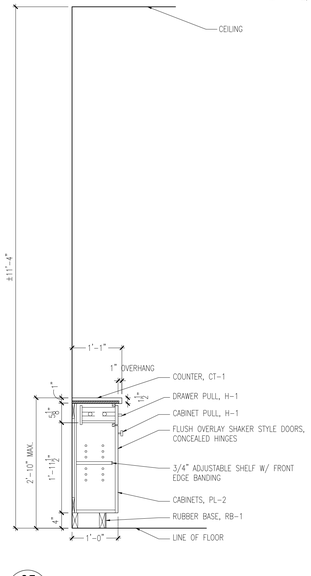

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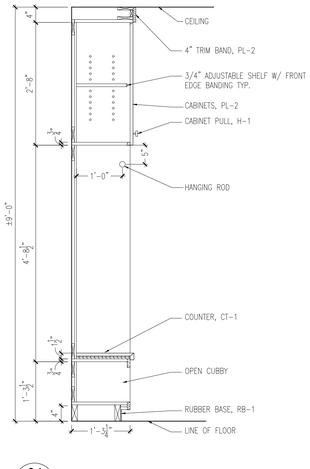

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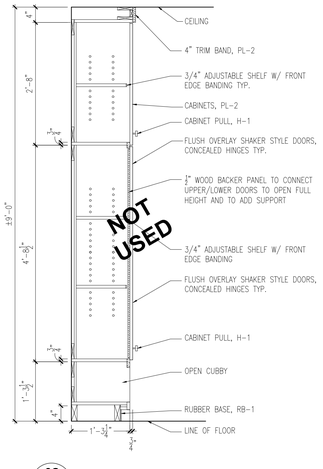

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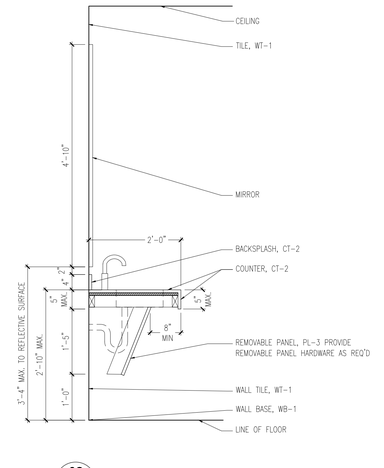

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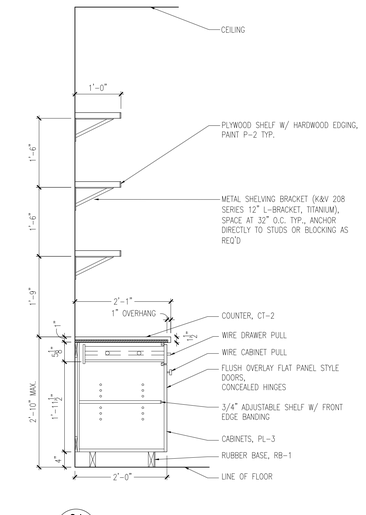
3/4" = 1'-0"



01 A7.31 MILLWORK SECTION
3/4" = 1'-0"

PLOT DATE: 11/19/2024 8:47 PM

STATE OF ALABAMA
Registered Architect
Blakeney S. Nelson
6153

ISSUED FOR:
BID / CONSTRUCTION DOCUMENTS
OCTOBER 31, 2024

A NEW FACILITY FOR:
Pell City
FIRE STATION #2
2911 MARTIN STREET SOUTH
CROPWELL, AL 35054

CITY OF PELL CITY, ALABAMA
City of Pell City
1905 1st Avenue North
Pell City, AL 35125
(205) 338-2244

CMH ARCHITECTS
1800 International Park Drive
Suite 300
Birmingham, Alabama 35243
205-969-2696
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SHEET TITLE
MILLWORK SECTIONS

PROJECT NUMBER
1917

ISSUE DATE
10/31/2024

DRAWN BY
KLB

CHECKED BY
BN

SHEET NUMBER
A7.31

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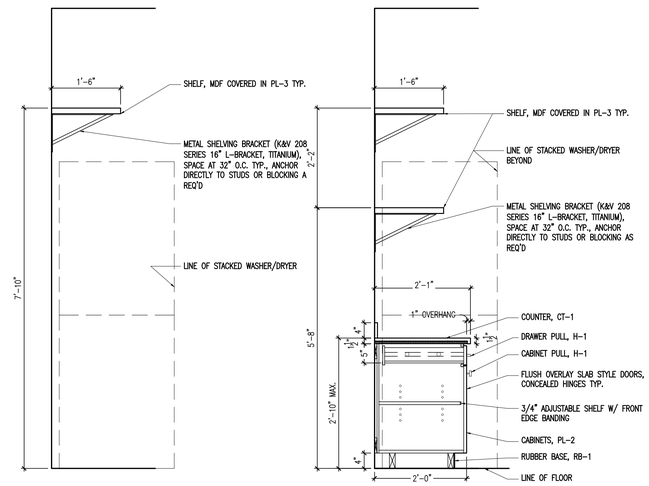
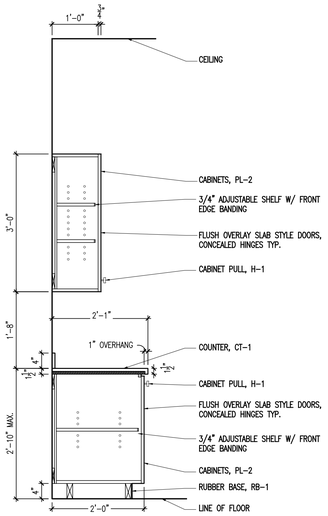


10 A7.32 MILLWORK SECTION
3/4" = 1'-0"

09 A7.32 MILLWORK SECTION
3/4" = 1'-0"



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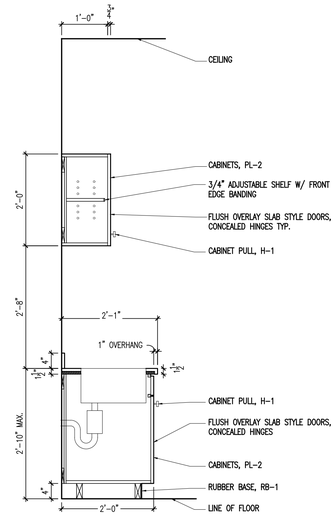

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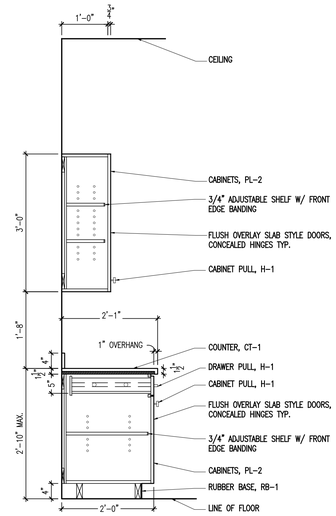

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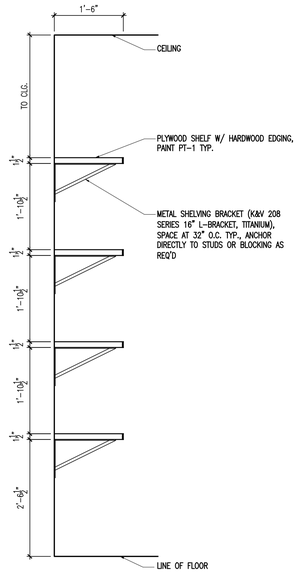

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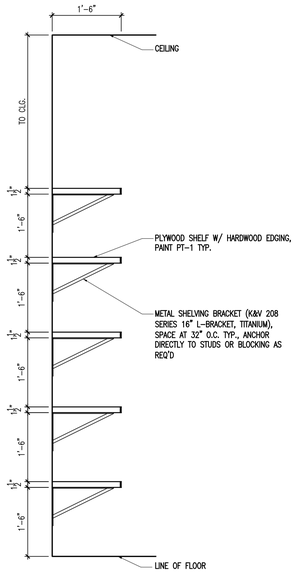

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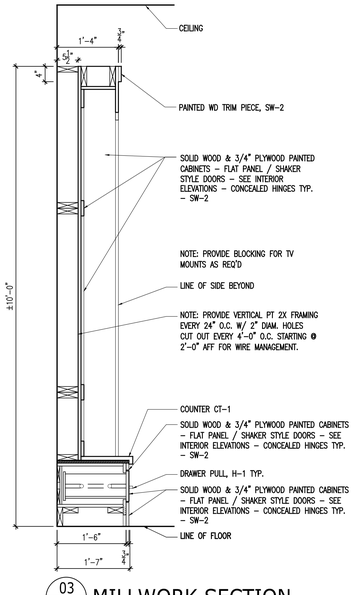

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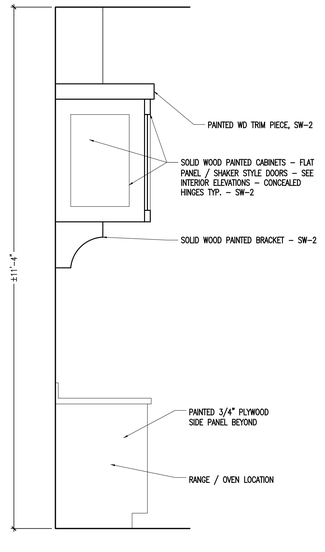

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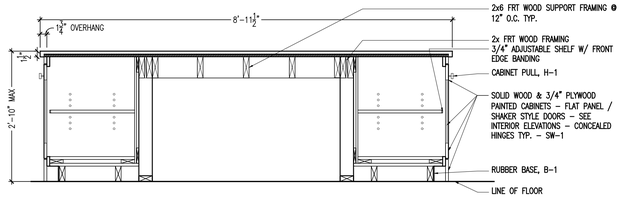

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Blakeney S. Nelson 6153 Registered Architect STATE OF ALABAMA

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XX

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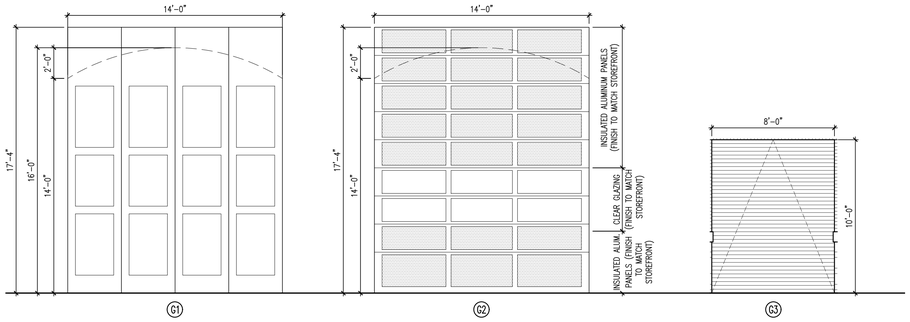
FIRE STATION #2

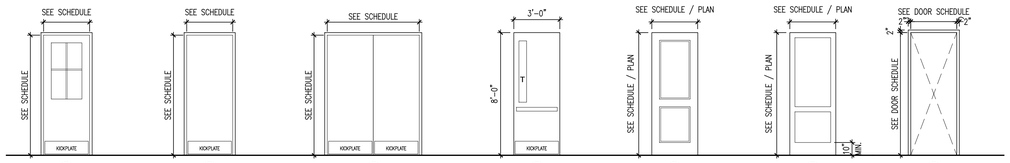


G1 TRUCK BAY BI-FOLDING GARAGE DOOR
QUANTITY: 4

G2 TRUCK BAY SEGMENTED ROLL-UP GARAGE DOOR
QUANTITY: 4

G3 STORAGE ROOM OVERHEAD COILING ROLL-UP GARAGE DOOR
QUANTITY: 1

05 / A8.01 GARAGE DOOR ELEVATIONS



D1 HOLLOW METAL EXTERIOR DOOR

D2 HOLLOW METAL EXTERIOR DOOR

D3 HOLLOW METAL EXTERIOR DOOR

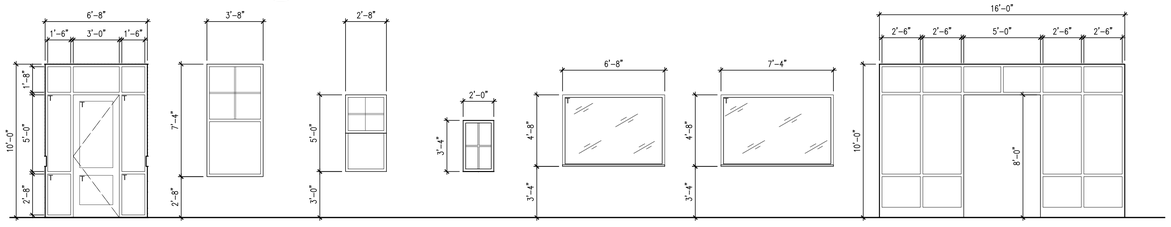
D4 INTERIOR HOLLOW METAL DOOR W/ VIEW WINDOW

D5 INTERIOR PANELED HM DOOR

D6 STOREFRONT DOOR

F1 HOLLOW METAL DOOR FRAME

04 / A8.01 DOOR & FRAME ELEVATIONS



SF1 STOREFRONT
ALUMINUM STOREFRONT WITH 1" INSULATED GLAZING, FINISH IS CLEAR ANODIZED ALUMINUM

W1 FIXED STOREFRONT WINDOW
ALUMINUM STOREFRONT WITH 1" INSULATED GLAZING, FINISH IS CLEAR ANODIZED ALUMINUM

W2 DOUBLE HUNG WINDOW
ALUMINUM CLAD WOOD WINDOWS IN SILVER CLAD FINISH

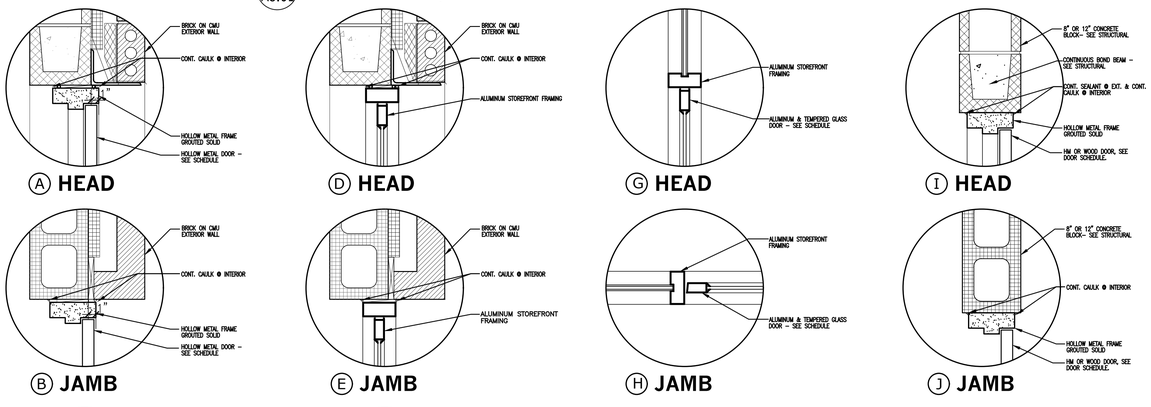
W3 FIXED STOREFRONT WINDOW
ALUMINUM STOREFRONT WITH 1" INSULATED GLAZING, FINISH IS FIRE ENGINE RED

W4 FIXED STOREFRONT WINDOW
1HOUR RATED ASSEMBLY – ALUMINUM STOREFRONT WITH 1" INSULATED GLAZING, FINISH IS CLEAR ANODIZED ALUMINUM – GLASS IS 45 MINUTE FIRE RATED GLASS – FIRE CAULK, ETC

W5 FIXED STOREFRONT WINDOW
ALUMINUM STOREFRONT WITH 1" INSULATED GLAZING, FINISH IS CLEAR ANODIZED ALUMINUM

W6 FIXED STOREFRONT WINDOW
ALUMINUM STOREFRONT WITH 1" INSULATED GLAZING, FINISH IS CLEAR ANODIZED ALUMINUM

03 / A8.01 STOREFRONT / WINDOW ELEVATIONS



A HEAD

D HEAD

G HEAD

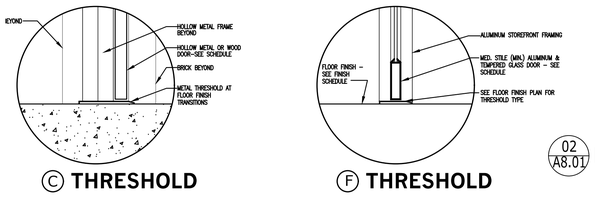
I HEAD

B JAMB

E JAMB

H JAMB

J JAMB



C THRESHOLD

F THRESHOLD

02 / A8.01 DOOR DETAILS

DOOR SCHEDULE

ROOM #	ROOM NAME	NUMBER	DOOR TYPE ELEVATION	DOOR MATERIAL	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR FINISH	FRAME ELEVATION	FRAME MATERIAL	FRAME DETAIL HD	FRAME DETAIL JB	FRAME DETAIL TH	FRAME FINISH	FIRE RATING	STC RATING	GLAZING TYPE	REMARKS	HARDWARE SET
		MAIN LEVEL																
100	VESTIBULE	100	D6	AL	3'–0"	8'–0"	PREFIN.	SF1	SF	G	H	F	PREFIN.	–	–	–	SIMPLEX 5000 PUSH+BUTTON CODED MECHANICAL DOOR LOCK - FINISH IS SATIN CHROME EXIT DEVICE - EXTERIOR DOOR	–
101	CORRIDOR	101a	D4	HM	3'–0"	7'–10"	PAINT	F1	HM	G	H	F	PAINT	–	–	–	SIMPLEX 5000 PUSH+BUTTON CODED MECHANICAL DOOR LOCK - FINISH IS SATIN CHROME EXIT DEVICE	–
101	CORRIDOR	101b	D4	HM	3'–0"	7'–10"	PAINT	F1	HM	G	H	F	PAINT	1 HR RATED	–	–	----	–
102	OPERATIONS ROOM	102	–	–	5'–0"	7'–10"	–	–	–	–	–		–	–			CASED OPENING	
103	EMS STORAGE	103	D2	HM	3'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	1 HR RATED			SIMPLEX 5000 PUSH+BUTTON CODED MECHANICAL DOOR LOCK - FINISH IS SATIN CHROME	
104	OFFICE	104	D5	HM	3'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	–				
105	TOILET	105	D5	HM	3'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	–				
106	CONFERENCE/ TRAINING ROOM	106	D5	HM	3'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	–				
107	CORRIDOR	107a	D2	HM	3'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	90 MIN			TORNADO RESISTANT STEEL DOOR & FRAME WITH HIGH IMPACT RATED DOOR HARDWARE THAT MEET 2020 ICC 500 - SEE SPECS OR SHEET G0.03 LIFE SAFTEY SHEET	TD-1
107	CORRIDOR	107b	D2	HM	3'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	90 MIN			TORNADO RESISTANT STEEL DOOR & FRAME WITH HIGH IMPACT RATED DOOR HARDWARE THAT MEET 2020 ICC 500 - SEE SPECS OR SHEET G0.03 LIFE SAFTEY SHEET	TD-1
108	RESTROOM	108	D5	HM	3'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	–				
109	RESTROOM	109	D5	HM	3'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	–				
110	CHARGING	110	D2	HM	3'–8"	7'–10"	PAINT	F1	HM	I	J		PAINT	1 HR RATED				
111	INVERTER STORAGE	111	D5	HM	3'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	–				
112	RESTROOM	112	D5	HM	3'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	–				
113	RESTROOM	113	D5	HM	3'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	–				
114	DAY ROOM	114a	D4	HM	3'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	–				
114	DAY ROOM	114b	D4	HM	3'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	–				
114	DAY ROOM	114c	D1	HM	3'–0"	7'–10"	PAINT	F1	HM	A	B	C	PAINT	–			SIMPLEX 5000 PUSH+BUTTON CODED MECHANICAL DOOR LOCK - FINISH IS SATIN CHROME EXIT DEVICE - EXTERIOR DOOR	
117	PANTRY #1	117	D5	HM	3'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	–				
118	PANTRY #2	118	D5	HM	3'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	–				
119	PANTRY #3	119	D5	HM	3'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	–				
120	PANTRY #4	120	D5	HM	3'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	–				
121	IT/ELECTRICAL	121	D2	HM	3'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	–				
122	TOOLS	122	D2	HM	3'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	–				
123	MECHANICAL ROOM	123	D2	HM	3'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	–				
124	LAUNDRY	124	D5	HM	3'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	–				
125	JANITOR	125	D2	HM	3'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	–				
126	BATHROOM	126	D5	HM	3'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	–				
127	OFFICER'S BUNK	127	D5	HM	3'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	–				
128	BUNK #1	128	D5	HM	3'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	–				
129	BUNK #2	129	D5	HM	3'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	–				
130	BUNK #3	130	D5	HM	3'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	–				
131	BUNK #4	131	D5	HM	3'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	–				
132	BUNK #5	132	D5	HM	3'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	–				
133	BUNK #6	133	D5	HM	3'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	–				
134	BUNK #7	134	D5	HM	3'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	–				
135	RISER ROOM	135	D2	HM	3'–0"	7'–10"	PAINT	F1	HM	A	B	C	PAINT	–			EXTERIOR DOOR	
136	CORRIDOR	136	D2	HM	3'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	1 HR RATED				
137	CORRIDOR	137	D1	HM	3'–0"	7'–10"	PAINT	F1	HM	A	B	C	PAINT	–	–	–	SIMPLEX 5000 PUSH+BUTTON CODED MECHANICAL DOOR LOCK - FINISH IS SATIN CHROME EXIT DEVICE - EXTERIOR DOOR	–
138	TRUCK BAYS	138a	G1	HM	14'–0"	16'–0"	PAINT	F1	HM				PAINT	–			TRUCK BAY FOUR FOLD GARAGE DOORS - DOORS ARE TO BE ABLE TO BE OPENED BY PUSH BUTTONS LOCATED IN THREE DIFFERENT PLACES INSIDE THE TRUCK BAYS ON THE WALLS (SEE ELECTRICAL PLANS), FROM THE 4 BUTTON REMOTE CONTROLS KEPT INSIDE THE TRUCKS (A SINGLE REMOTE IS CAPABLE OF OPENING 4 DIFFERENT DOORS), FROM AN INTEGRATED APP ON A PHONE OR OTHER SMART DEVICE, AND MANUALLY IF ALL POWER HAS FAILED	
138	TRUCK BAYS	138b	G1	HM	14'–0"	16'–0"	PAINT	F1	HM				PAINT	–				
138	TRUCK BAYS	138c	G1	HM	14'–0"	16'–0"	PAINT	F1	HM				PAINT	–				
138	TRUCK BAYS	138d	G1	HM	14'–0"	16'–0"	PAINT	F1	HM				PAINT	–				
138	TRUCK BAYS	138e	G2	HM	14'–0"	16'–0"	PAINT	F1	HM				PAINT	–			TRUCK BAY OVERHEAD GARAGE DOORS - DOORS ARE TO BE ABLE TO BE OPENED BY PUSH BUTTONS LOCATED IN THREE DIFFERENT PLACES INSIDE THE TRUCK BAYS ON THE WALLS (SEE ELECTRICAL PLANS), FROM THE 4 BUTTON REMOTE CONTROLS KEPT INSIDE THE TRUCKS (A SINGLE REMOTE IS CAPABLE OF OPENING 4 DIFFERENT DOORS), FROM AN INTEGRATED APP ON A PHONE OR OTHER SMART DEVICE, AND MANUALLY IF ALL POWER HAS FAILED	
138	TRUCK BAYS	138f	G2	HM	14'–0"	16'–0"	PAINT	F1	HM				PAINT	–				
138	TRUCK BAYS	138g	G2	HM	14'–0"	16'–0"	PAINT	F1	HM				PAINT	–				
138	TRUCK BAYS	138h	G2	HM	14'–0"	16'–0"	PAINT	F1	HM				PAINT	–				
138	TRUCK BAYS	138i	D1	HM	3'–0"	7'–10"	PAINT	F1	HM	A	B	C	PAINT	–	–	–	SIMPLEX 5000 PUSH+BUTTON CODED MECHANICAL DOOR LOCK - FINISH IS SATIN CHROME EXIT DEVICE - EXTERIOR DOOR	–
138	TRUCK BAYS	138j	D1	HM	3'–0"	7'–10"	PAINT	F1	HM	A	B	C	PAINT	–	–	–	SIMPLEX 5000 PUSH+BUTTON CODED MECHANICAL DOOR LOCK - FINISH IS SATIN CHROME EXIT DEVICE - EXTERIOR DOOR	–
139	EXERCISE ROOM	139	D4	HM	3'–8"	7'–10"	PAINT	F1	HM	I	J		PAINT	1 HR RATED				
140	PPE ROOM	140	D2	HM	3'–8"	7'–10"	PAINT	F1	HM	I	J		PAINT	1 HR RATED				
141	DECONTAMINATION ROOM	141	D2	HM	3'–8"	7'–10"	PAINT	F1	HM	I	J		PAINT	1 HR RATED				
142	TOILET	142	D2	HM	3'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	1 HR RATED	–	–		–
143	EQUIPMENT STORAGE	143a	D3	HM	6'–0"	7'–10"	PAINT	F1	HM	I	J		PAINT	1 HR RATED	–	–		–
143	EQUIPMENT STORAGE	143b	G3	HM	8'–0"	10'–0"	PREFINISHED	F1	HM				PAINT	–			EQUIPMENT STORAGE ROOM OVERHEAD COILING DOOR - MANUAL PULL CHAIN WITH SLIDING BOLT LOCK	
144	MECH.	144	D2	HM	3'–0"	7'–10"	PAINT	F1	HM	A	B	C	PAINT	–	–	–	EXTERIOR DOOR	–
145	ELECT.	145	D3	HM	6'–0"	7'–10"	PAINT	F1	HM	A	B	C	PAINT	–	–	–	EXTERIOR DOOR	–

NOTES: SEE SPECIFICATIONS FOR MORE DOOR HARDWARE INFORMATION

01 / A8.01 DOOR SCHEDULE

STATE OF ALABAMA
Blakeney S. Nelson
6153
Registered Architect

ISSUED FOR:
BID / CONSTRUCTION DOCUMENTS
OCTOBER 31, 2024

A NEW FACILITY FOR:
Pell City
FIRE STATION #2
2911 MARTIN STREET SOUTH
CROPWELL, AL 35054

GREAT SEAL OF PELL CITY, ALABAMA
City of Pell City
1905 1st Avenue North
Pell City, AL 35125
(205) 338-2244

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REVISIONS

SHEET TITLE
DOOR SCHEDULES & DETAILS

PROJECT NUMBER
1917

ISSUE DATE
10/31/2024

DRAWN BY
GH

CHECKED BY
BN

SHEET NUMBER
A8.01

FIRE STATION #2

PLOT DATE: 11/19/2024, 8:48 PM

APPLIANCE LEGEND

ROOM	BASIS OF DESIGN FOR APPLIANCE
KITCHEN	THOR - 36" CONTEMPORARY PROFESSIONAL 6-BURNER GAS RANGE / OVEN - MODEL # - ARG36 - STAINLESS STEEL FINISH
KITCHEN	VIKING - 7 SERIES INTEGRATED 36" WIDE ALL FREEZER - COUNTER DEPTH - STAINLESS STEEL FINISH - W/ STAINLESS STEEL DOOR PANEL KIT & HANDLE - MODEL # - FFI7360(R/L)
KITCHEN	VIKING - 7 SERIES INTEGRATED 36" WIDE ALL REFRIGERATOR - COUNTER DEPTH - STAINLESS STEEL FINISH - W/ STAINLESS STEEL DOOR PANEL KIT & HANDLE - MODEL # - FRI7360(R/L)
KITCHEN	GE - ENERGY STAR - ADA COMPLIANT - 24" WIDE - STAINLESS STEEL EXTERIOR & INTERIOR - WITH SANITIZE CYCLE - MODEL # - GDT226SSLSS
LAUNDRY	WHIRLPOOL - 5 CUBIC FOOT - STACKABLE - SMART FRONT LOAD - ENERGY STAR - WASHER WITH FRESH-FLOW VENT SYSTEM - MODEL # - WFW6720RW - COLOR IS TBD
LAUNDRY	WHIRLPOOL - 7.4 CUBIC FOOT - STACKABLE - FRONT LOAD DRYER - WITH INTUITIVE TOUCH CONTROLS & ADVANCED MOISTURE SENSING - MODEL # - WHD560CHW - COLOR IS TBD
KITCHEN	KITCHENAID - 24" COUNTERTOP MICROWAVE - 1200 WATT - FINISH IS TBD
MISC	EXTRA LARGE TV MOUNT - THE BEAST HEAVY DUTY FULL MOTION TV WALL MOUNT WITH EXTRA LONG EXTENSION - FOR TV'S 60" THROUGH 110" = 275 LBS MAX - MOUNT-IT.COM SKU# - MI-394
MISC	MEDIUM-LARGE TV MOUNT - FULL MOTION TV WALL MOUNT WITH EXTRA LONG EXTENSION - FOR TV'S THROUGH 60" = 110 LBS MAX - MOUNT-IT.COM SKU# - MI-372

NOTE: THE ITEMS LISTED & DESCRIBED ABOVE ARE THE BASIS OF DESIGN FOR THIS BUILDING - SUBSTITUTIONS MAY BE CONSIDERED IF THEY ARE SUBMITTED WITHIN THE PROPER PROTOCOL & TIME FRAME DESCRIBED IN THE SPECIFICATIONS AND IF THEY ARE EQUAL IN QUALITY, DESIGN, INTENT, SIZE, ETC - IF NOT PROPERLY SUBMITTED, THEN SUBSTITUTIONS WILL NOT BE CONSIDERED AFTER THE BID

01 A8.30 FLOOR FINISH DIAGRAM
NTS

FINISH LEGEND

CEILING

ACT-# **ACOUSTICAL CEILING TILE**

ACT - 1 MANUFACTURER: ARMSTRONG
STYLE: ULTIMA TEGULAR 1911
SIZE: 24" X 24" TILES
SUSP, SYSTEM: PRELUDE XL 15/16"

GB- # **GYPSUM BOARD CEILINGS**

GB - 1 5/8" PAINTED GYP BD

GB - 2 5/8" PAINTED MOISTURE RESISTANT GYP BD

FLOOR

CONC-# **CONCRETE**

CONC-1 SEALED CONCRETE - SLIP RESISTANT - BASIS OF DESIGN
MFR: EQUAL TO ARMORSEAL 8100 WATER BASED EPOXY COATING BY SHERWIN WILLIAMS
COLOR: CLEAR GLOSS WITH SHARK GRIP ADDITIVE

CONC-2 POLISHED CONCRETE - SLIP RESISTANT - BASIS OF DESIGN IS SCOFIELD FORMULA ONE LIQUID DYE
OR
AMERIPOLISH ARCHITECTURAL CONCRETE
PRODUCTS CLASSIC / SURELOCK / DYE-N-SEAL
MFR: EQUAL TO SCHOFIELD/AMERIPOLISH & THEIR MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS
COLOR: FULL RANGE OF CHOICES FROM CONCRETE COLOR STAIN CHART A-432
OR
AMERIPOLISH COLOR CHART

CONC-3 STAMPED CONCRETE - EXTERIOR CONCRETE PATIO FINISH IN ASHLAR SLATE PATTERN
EXAMPLE:

RF-# **RUBBER FLOORING**

RF-1 MANUFACTURER: NORA FLOORING
COLLECTION: NORAMENT 992 GRANO

T-# **TILE**

T - 1 BASIS OF DESIGN
MANUFACTURER: DALTILE
COLLECTION: REMINISCENT
COLOR: RECLAIMED GRAY RM23
SIZE: 2" X 2" MOSAIC
GROUT: LATICRETE 45 RAVEN - 1/8" JOINT
NOTE: SHOWER FLOORS
INSTALL PATTERN: ORTHAGONAL
NOTE: USE ACCESSIBLE TRANSITION STRIPS @ THE TRANSITION OF ONE FLOOR TYPE TO THE NEXT - SCHLUTER - RENO-U FINISHED IN BRUSHED STAINLESS STEEL IS BASIS OF DESIGN

T - 2 BASIS OF DESIGN
MANUFACTURER: DALTILE
COLLECTION: REMINISCENT
COLOR: RECLAIMED GRAY RM23
SIZE: 12" X 24"
GROUT: LATICRETE 45 RAVEN - 1/8" JOINT
NOTE: RESTROOM FLOORS
INSTALL PATTERN: STACKED BOND

TR-# **FLOOR TRANSITIONS**

TR - 1 MANUFACTURER: SCHLUTER
STYLE: RENO-U
COLOR: STAINLESS STEEL / BRUSHED STAINLESS STEEL
SIZE: COMPATIBLE WITH SPECIFIED TILE FLOOR
NOTE: CONCRETE FLOOR TO TILE FLOOR TRANSITION
NOTE: ACCESSIBLE / ADA / ANSI ACCEPTABLE

WALLS/TRIM

PT-# **PAINT**

PT - 1 MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW 6254 LAZY GRAY
FINISH: EGGSHELL
NOTE: GENERAL WALLS

PT - 2 MANUFACTURER: SHERWIN WILLIAMS
COLOR:CRABBY APPLE SW 9161
FINISH: EGGSHELL
NOTE: ACCENT WALL @ CORRIDOR, SEE FLOORPLAN

PT - 3 MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW 7602 INDIGO BATIK
FINISH: EGGSHELL
NOTE: ACCENT WALL @ BREAK ROOM AND TRUCK BAY

PT - 4 MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW 7075 WEB GRAY
FINISH: SEMI-GLOSS
NOTE: DOORS, DOOR FRAMES, & WINDOW TRIM

PT - 5 MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW 7004 SNOWBOUND
FINISH: FLAT
NOTE: PAINTED GYP BD CEILING

PT - 6 MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW 9179 ANCHORS AWEIGH
FINISH: SEMI-GLOSS
NOTE: TV MILLWORK @ BREAK ROOM

RB-# **RUBBER BASE**

RB - 1 MANUFACTURER: ROPPE
700 SERIES STANDARD TOE BASE
COLOR: 186 RED or 150 DARK GRAY
HEIGHT: 5"

WB-# **WALL BASE**

WB- 1 MANUFACTURER: SCHLUTER
STYLE: SCHLUTER-DILEX-AHKA
FINISH: SATIN ANODIZED
NOTE: RR WALL TO FLOOR COVE TRANSITION

WALLS/TRIM (CONTINUED)

WT-# **WALL TILE**

WT - 1 MANUFACTURER: DALTILE
COLLECTION: SLATE ATTACHE
COLOR: META WHITE MATTE SA04
SIZE: 6X24
GROUT: LATICRETE 78 STERLING SILVER 1/8" JOINT
NOTE: RESTROOM WALLS
INSTALL PATTERN: VERTICAL RUNNING BOND

WT - 2 MANUFACTURER: DALTILE
COLLECTION: REVALIA REMIX
COLOR: RIPPLE WHITE RV05
MATTE RV0528SAMMT
SIZE: 2" X 10"
GROUT: LATICRETE 89 SMOKE GREY 1/8" JOINT
NOTE: BACKSPLASH
INSTALL PATTERN: RUNNING BOND

CG-# **CORNER GUARDS**

CG - 1 MANUF: KOROSEAL
STYLE: KOROGARD GS SERIES
COLOR: STAINLESS STEEL
SIZE: GS15, 1-1/2" WING SIZE
LENGTH: 6'-0"

TT-# **TILE TRIM**

TT - 1 MANUF: SCHLUTER
STYLE: SCHLUTER-QUADEC
MATERIAL: ALUMINUM
FINISH: SATIN ANODIZED
NOTE: OUTSIDE TILED CORNERS

MILLWORK

PL-# **PLASTIC LAMINATE (MILLWORK)**

PL - 1 MANUFACTURER: WILSONART
COLOR: PORT D14-60
FINISH: MATTE

PL - 2 MANUFACTURER: WILSONART
COLOR: MIDNIGHT D505-60
FINISH: MATTE
OPERATIONS ROOM, CONFERENCE / TRAINING ROOM, LAUNDRY ROOM

PL - 3 MANUFACTURER: WILSONART
COLOR: NIGHTFALL 5023K-19
FINISH: LENO WEAVE
BATHROOM MILLWORK & SHROUD

ABSOLUTELY NO MDF / IDF / PARTICAL BOARD / ORIENTED STRAND BOARD/ CDX/ WILL BE ACCEPTED IN MILLWORK / CASEWORK / TRIM / BLOCKING / COUNTERTOP UNDERLAYMENT/ ETC - ONLY 3/4" PLYWOOD IS ACCEPTABLE - SEE DETAILS TO DETERMINE IF THE PLYWOOD IS TO BE FRT OR NOT

SW-# **SOLID WOOD CABINET CONSTRUCTION (MILLWORK)**

SW - 1 SOLID WOOD SPECIES - MAPLE - PAINTED
COLOR - PAINTED TO MATCH WILSONART PLASTIC LAMINATE COLOR PORT D14-60 - FINISH - SEMI-GLOSS
KITCHEN CABINETS @ ISLAND

SW - 2 SOLID WOOD SPECIES - MAPLE - PAINTED
COLOR - PAINTED TO MATCH WILSONART PLASTIC LAMINATE COLOR MIDNIGHT D505-60 - FINISH - SEMI-GLOSS
KITCHEN CABINETS @ PERIMETER & LIVING ROOM TELEVISION CABINETS

ABSOLUTELY NO MDF / IDF / PARTICAL BOARD / ORIENTED STRAND BOARD/ CDX/ WILL BE ACCEPTED IN MILLWORK / CASEWORK / TRIM / BLOCKING / COUNTERTOP UNDERLAYMENT/ ETC - ONLY 3/4" PLYWOOD IS ACCEPTABLE - AT PAINTED CABINET DOOR RECESSED PANEL LOCATIONS, 1/4" PLYWOOD IS ACCEPTABLE - SEE DETAILS TO DETERMINE IF THE PLYWOOD IS TO BE FRT OR NOT

CT-# **COUNTERTOP**

CT - 1 QUARTZ
MANUFACTURER: CORIAN
SNOW DRIFT
THICKNESS: 2CM
NOTE: KITCHEN COUNTERTOPS

CT - 2 QUARTZ
MANUFACTURER: WILSONART
COLOR: ABILENE Q6017
THICKNESS: 2CM
NOTE: RESTROOM COUNTERTOPS

CT - 3 PLASTIC LAMINATE COUNTERTOPS
MANUFACTURER: WILSONART
COLOR: GREY PAMPAS 4168- 60
FINISH: MATTE
NOTE: LAUNDRY ROOM COUNTERTOPS

ABSOLUTELY NO MDF / IDF / PARTICAL BOARD / ORIENTED STRAND BOARD/ CDX/ WILL BE ACCEPTED IN MILLWORK / CASEWORK / TRIM / BLOCKING / COUNTERTOP UNDERLAYMENT/ ETC - ONLY 3/4" PLYWOOD IS ACCEPTABLE - SEE DETAILS TO DETERMINE IF THE PLYWOOD IS TO BE FRT OR NOT

RS-# **ROLLING SHADES**

RS - 1 MANUFACTURER: MECHOSHADE
STYLE: MECHO / 5 MANUAL SOLAR SHADE
FABRIC: THERMOVEIL DENSE BASKET WEAVE 1300 SERIES (5% OPEN)
COLOR: 1319 SILVER BIRCH

RS - 2 MANUFACTURER: MECHOSHADE
STYLE: MECHO MANUAL CLASSIC BLACKOUT SHADE
FABRIC: THERMOVEIL DENSE BASKET WEAVE 0700 SERIES (0% OPEN)
COLOR: 100% BLACKOUT SHADES - 0731 - BLACK/WHITE
NOTE: ROLLER SHADES (RS-2) TO BE INSTALLED IN EVERY BUNK ROOM

GENERAL FINISH NOTES

ARCHITECT APPROVED EQUALS FROM OTHER MANUFACTURERS WILL BE CONSIDERED. SEE SPECIFICATIONS FOR ARCHITECT APPROVED MANUFACTURERS. VERIFY FEATURE SPECIFICATIONS AND FINISHES WITH ARCHITECT PRIOR TO INSTALLATION. COORDINATE INSTALLATION W/ ARCHITECT AND CONSTRUCTION MANAGER. SAMPLES OF ALL FINISHES TO BE APPROVED BY OWNER & ARCH. PRIOR TO ORDER &/OR INSTALLATION

STATE OF ALABAMA
Blakeney S. Nelson
6153
Registered Architect
LICENSED ARCHITECT

ISSUED FOR:
BID / CONSTRUCTION DOCUMENTS
OCTOBER 31, 2024

A NEW FACILITY FOR:
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FIRE STATION #2
2911 MARTIN STREET SOUTH
CROPWELL, AL 35054

GREAT SEAL OF PELL CITY, ALABAMA

City of Pell City
1905 1st Avenue North
Pell City, AL 35125
(205) 338-2244

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REVISIONS

SHEET TITLE
FINISH LEGEND & SCHEDULE

PROJECT NUMBER
1917

ISSUE DATE
10/31/2024

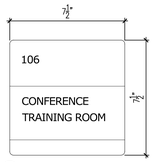
DRAWN BY

CHECKED BY
BN

SHEET NUMBER
A8.30

FIRE STATION #2

PLOT DATE: 11/19/2024, 8:48 PM



Ⓐ TYPE A – ROOM ID 7.5"X7.5"
1/4" THICK SEMI-MATTE CLEAR ACRYLIC
–RAISED TACTILE COPY & GRADE 2 BRAILLE
–SIGN INSERT: LIGHT GRAY CARD STOCK
–LIGHT GRAY BACKGROUND WITH DARK GRAY COPY

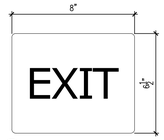
02 / 11.0 TYPE A ROOM ID SIGN
3" = 1'-0"

Ⓑ TYPE B – ACCESSIBLE RESTROOM ID 9"X6"
1/8" THICK SEMI-MATTE CLEAR ACRYLIC
–RAISED TACTILE COPY & GRADE 2 BRAILLE
–LIGHT GRAY BACKGROUND WITH DARK GRAY COPY
–ROOMS 105, 112, 113, & 142

03 / 11.0 TYPE B RESTROOM ID SIGN
3" = 1'-0"

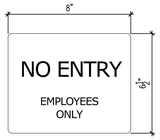
Ⓑ TYPE B – RESTROOM ID 9"X6"
1/8" THICK SEMI-MATTE CLEAR ACRYLIC
–RAISED TACTILE COPY & GRADE 2 BRAILLE
–LIGHT GRAY BACKGROUND WITH DARK GRAY COPY
–ROOMS 108 & 109

04 / 11.0 TYPE B RESTROOM ID SIGN
3" = 1'-0"



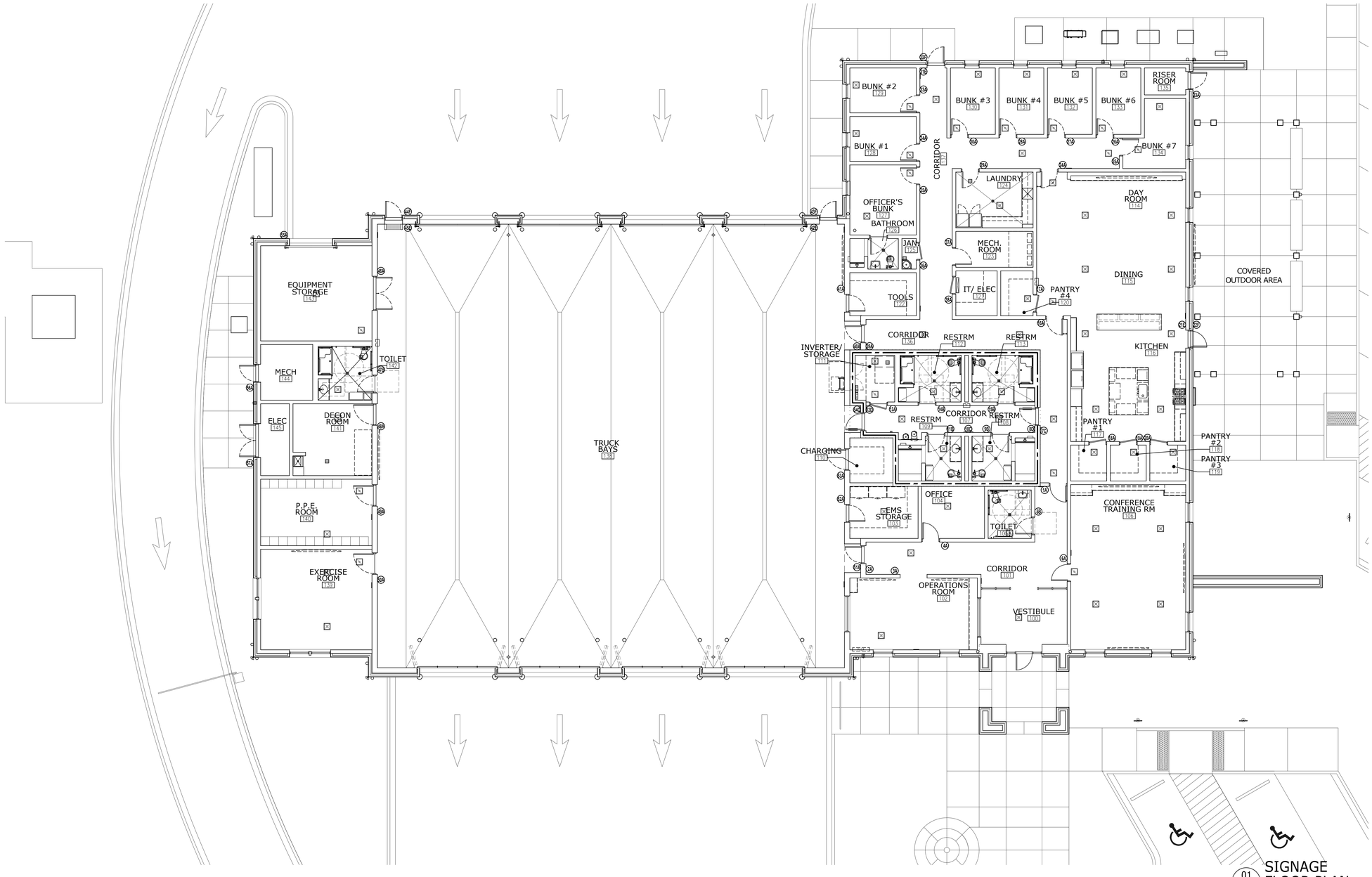
Ⓔ TYPE E – EXIT ID 6.5"X8"
1/8" THICK SEMI-MATTE CLEAR ACRYLIC
–RAISED TACTILE COPY & GRADE 2 BRAILLE
–LIGHT GRAY BACKGROUND WITH DARK GRAY COPY

05 / 11.0 TYPE E EXIT ID SIGN
3" = 1'-0"



Ⓕ TYPE F – INFORMATIONAL ID 6.5"X8"
1/8" THICK SEMI-MATTE CLEAR ACRYLIC
–SURFACE DIRECT PRINT GRAPHICS
–LIGHT GRAY BACKGROUND WITH DARK GRAY COPY

06 / 11.0 TYPE F INFORMATIONAL ID SIGN
3" = 1'-0"



01 / 11.0 SIGNAGE FLOOR PLAN
1/8" = 1'-0"

SIGNAGE LEGEND

SIGNAGE TYPE	DESCRIPTION
55A	143 EQUIPMENT STORAGE, WALL MOUNT
56A	144 MECHANICAL, WALL MOUNT
57A	145 ELECTRICAL, WALL MOUNT

NOTES:
1. SEE SHEETS G0.02 & G0.03 FOR THE LIFE SAFETY / STORM SHELTER REQUIRED SIGNAGE
2. ENSURE THAT THE SIGNAGE ON THIS SHEET AND THE SHEETS MENTIONED IN NOTE 1 ABOVE TO COORDINATE SIZES, FONTS, COLORS, ETC
3. OWNER TO REVIEW AND APPROVE ALL ROOM NAMES & NUMBERS PRIOR TO PRODUCTION AND INSTALLATION OF THE SIGNS
4. ARCHITECT AND OWNER TO APPROVE SIGN DESIGN, FONT, COLOR, MATERIAL, ETC BEFORE INSTALLATION

SIGNAGE LEGEND

SIGNAGE TYPE	DESCRIPTION
1A	136 CORRIDOR, WALL MOUNT
2A	138 TRUCK BAYS, WALL MOUNT
3A	102 OPERATIONS ROOM, WALL MOUNT
4A	104 OFFICE, WALL MOUNT
5B	105 RESTROOM, WALL MOUNT
6A	106 CONFERENCE TRAINING ROOM, WALL MOUNT
7C	STORM SHELTER ENTRY SIGN - SEE G0.02 FOR MORE INFORMATION
8D	STORM SHELTER INSTRUCTIONAL SIGN - SEE G0.02 FOR MORE INFORMATION
9B	108 RESTROOM, WALL MOUNT
10C	STORM SHELTER PLAQUE - SEE G0.02 FOR MORE INFORMATION
11B	109 RESTROOM, WALL MOUNT
12D	STORM SHELTER INSTRUCTIONAL SIGN - SEE G0.02 FOR MORE INFORMATION
13A	111 INVERTER/STORAGE, WALL MOUNT
14B	112 RESTROOM, WALL MOUNT
15B	113 RESTROOM, WALL MOUNT
16A	114 DAY ROOM / 115 DINING / 116 KITCHEN, WALL MOUNT
17A	120 PANTRY #4, WALL MOUNT
18A	117 PANTRY #1, WALL MOUNT
19A	118 PANTRY #2, WALL MOUNT
20A	119 PANTRY #3, WALL MOUNT
21E	EXIT, WALL MOUNT
22F	NO ENTRY - EMPLOYEES ONLY, WALL MOUNT
23A	RISER ROOM, WALL MOUNT
24A	114 DAY ROOM / 115 DINING / 116 KITCHEN, WALL MOUNT
25A	134 BUNK #7, WALL MOUNT
26A	133 BUNK #6, WALL MOUNT
27A	132 BUNK #5, WALL MOUNT
28A	131 BUNK #4, WALL MOUNT
29A	124 LAUNDRY, WALL MOUNT
30A	130 BUNK #3, WALL MOUNT
31E	EXIT, WALL MOUNT
32F	NO ENTRY - EMPLOYEES ONLY, WALL MOUNT
33A	129 BUNK #2, WALL MOUNT
34A	128 BUNK #1, WALL MOUNT
35A	127 OFFICER'S BUNK, WALL MOUNT
36A	125 JANITOR CLOSET, WALL MOUNT
37A	123 MECHANICAL ROOM, WALL MOUNT
38A	121 IT/ELECTRICAL, WALL MOUNT
39A	138 TRUCK BAYS, WALL MOUNT
40A	136 CORRIDOR, WALL MOUNT
41A	122 TOOLS, WALL MOUNT
42E	EXIT, WALL MOUNT
43F	NO ENTRY - EMPLOYEES ONLY, WALL MOUNT
44F	NO ENTRY - EMPLOYEES ONLY, WALL MOUNT
45E	EXIT, WALL MOUNT
46A	143 EQUIPMENT STORAGE, WALL MOUNT
47B	142 RESTROOM, WALL MOUNT
48A	141 DECON ROOM, WALL MOUNT
49A	140 P.P.E. ROOM, WALL MOUNT
50A	139 EXERCISE ROOM, WALL MOUNT
51A	101 CORRIDOR, WALL MOUNT
52A	103 EMS STORAGE, WALL MOUNT
53A	110 CHARGING, WALL MOUNT
54C	STORM SHELTER ENTRY SIGN - SEE G0.02 FOR MORE INFORMATION

STATE OF ALABAMA
Blakeney S. Nelson
6153
Registered Architect

ISSUED FOR:
BID / CONSTRUCTION DOCUMENTS
OCTOBER 31, 2024

A NEW FACILITY FOR:
Pell City
FIRE STATION #2
2911 MARTIN STREET SOUTH
CROPWELL, AL 35054

GREAT SEAL OF PELL CITY, ALABAMA
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REVISIONS

SHEET TITLE
SIGNAGE FLOOR PLAN

PROJECT NUMBER
1917

ISSUE DATE
10/31/2024

DRAWN BY

CHECKED BY
BN

SHEET NUMBER
A11.0

FIRE STATION #2

PLOT DATE: 11/19/2024 8:49 PM

GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE BETWEEN ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND OTHER DRAWINGS:

   A. ANY DISCREPANCIES OR CONFLICTS BETWEEN DRAWINGS OF DIFFERENT DISCIPLINES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. CONTRACTOR SHALL NOT PROCEED WITH SHOP DRAWING PREPARATION OR ANY CONSTRUCTION UNTIL THE ARCHITECT HAS GIVEN DIRECTION OF RESOLUTION FOR THE DISCREPANCY OR CONFLICT.

   B. NOT ALL OPENINGS AND OTHER COMPONENTS THAT ARE REQUIRED HAVE BEEN SHOWN ON THE STRUCTURAL DRAWINGS. COORDINATE AND VERIFY THE LOCATIONS AND SIZES OF CHASES, INSERTS, OPENINGS, SLEEVES, FINISHES, DEPRESSIONS AND OTHER PROJECT REQUIREMENTS AT FLOORS, WALLS, AND ROOFS BETWEEN DRAWINGS OF DIFFERENT DISCIPLINES.

2. IN THE CASE OF INCONSISTENCIES BETWEEN DRAWINGS AND SPECIFICATIONS OR WITHIN EITHER DOCUMENT, A BIDDER WILL BE DEEMED TO HAVE INCLUDED IN ITS BID THE BETTER QUALITY OR GREATER QUANTITY OF THE WORK INVOLVED UNLESS THE BIDDER ASKED FOR AND OBTAINED THE ARCHITECT'S WRITTEN CLARIFICATION OF THE REQUIREMENTS BEFORE SUBMISSION OF BID.

3. ALL DIMENSIONS SHOWN TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS, AND DETAILS. DO NOT SCALE THE DRAWINGS.

4. THE DETAILS PROVIDED ON SHEETS LABELED AS "TYPICAL DETAILS" APPLY GENERALLY TO THE DRAWINGS IN AREAS WHERE CONDITIONS ARE SIMILAR TO THOSE DESCRIBED IN THE DETAILS, UNLESS NOTED OTHERWISE.

5. ALL OF THE CONTRACTOR'S PROPOSED SUBSTITUTIONS ARE CONSIDERED CHANGE ORDERS AND SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND/OR APPROVAL PRIOR TO ANY PERTINENT WORK OR FABRICATION.

6. CONSTRUCTION METHODS, PROCEDURES AND SEQUENCES ARE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL TAKE ALL THE NECESSARY MEANS TO MAINTAIN AND PROTECT THE STRUCTURAL INTEGRITY OF ALL CONSTRUCTION, NEW AND EXISTING, AT ALL STAGES INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

   A. BRACE ALL BASEMENT-TYPE WALLS RETAINING EARTH UNTIL RESTRAINING SLABS/FLOORS HAVE BEEN INSTALLED AND REACHED REQUIRED DESIGN STRENGTH.

   B. BRACE/SHORE ALL WALLS AS REQUIRED TO MAINTAIN STABILITY DURING CONSTRUCTION.

   C. SHORE EXISTING FLOORS, WALLS, AND/OR ROOFS AS REQUIRED DURING DEMOLITION OF ANY PORTION OF EXISTING STRUCTURE UNTIL NEW SUPPORT FRAMING HAS BEEN INSTALLED.

7. ALL STRUCTURAL MEMBERS, AS SHOWN, HAVE BEEN DESIGNED TO CARRY IN PLACE DESIGN LOADS ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUPPORT OF ANY LOADS AND FORCES IMPOSED DURING CONSTRUCTION, TRANSPORTATION, ERECTION AND HANDLING. THE CONTRACTOR SHALL ENSURE THAT CONSTRUCTION LOADS DO NOT EXCEED THE DESIGN LIVE LOADS INDICATED ON THE STRUCTURAL DRAWINGS AND THAT THESE LOADS ARE NOT IMPOSED ON THE STRUCTURAL MEMBERS PRIOR TO THE TIME THAT CONCRETE REACHES THE FULL SPECIFIED DESIGN STRENGTH. STEEL MEMBERS AND THEIR CONNECTIONS ARE FULLY BOLTED AND / OR WELDED AND ALL OTHER FRAMING MEMBERS AND THEIR CONNECTIONS ARE IN PLACE.

8. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO ANY PERTINENT WORK OR FABRICATION. ALL EXISTING CONDITIONS AND DIMENSIONS SHALL BE NOTED ON THE SHOP DRAWINGS.

9. ALL CONSTRUCTION JOINTS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE INCORPORATED INTO THE STRUCTURE. ADDITIONAL CONSTRUCTION JOINTS TO FACILITATE CONSTRUCTION SHALL BE LOCATED AND DETAILED ON THE SHOP DRAWINGS FOR REVIEW.

SHOP DRAWINGS/SUBMITTALS:

1. SHOP DRAWING SUBMITTAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE PROJECT CONTRACT DOCUMENTS (DRAWINGS AND SPECIFICATIONS) AND SHALL FOLLOW INDUSTRY GUIDELINES AND STANDARDS.

2. ALL QUESTIONS, CLARIFICATIONS, OR MODIFICATIONS OF THE CONTRACT DOCUMENTS SHALL BE CLEARLY DOCUMENTED AND INDICATED ON THE SHOP DRAWING TRANSMITTAL OR COVER SHEET. ITEMS SHALL NOT BE CONSIDERED APPROVED UNLESS SPECIFICALLY ADDRESSED BY MBA IN THE REVIEW COMMENTS.

3. ALL SHOP DRAWINGS ARE TO BE NEWLY PREPARED. REPRODUCTIONS OF CONTRACT STRUCTURAL DRAWINGS FOR USE AS ERECTION DRAWINGS WILL NOT BE PERMITTED. SHOULD SHOP DRAWING SUBMITTALS CONTAIN ANY REPRODUCTIONS OF CONTRACT STRUCTURAL DRAWINGS, THEY WILL BE REJECTED AND RETURNED WITHOUT ENGINEER REVIEW.

   A. MBA MAY CONSIDER TRANSFERRING COMPUTER FILES, IN THE FORMAT CREATED, OF THE PLAN SHEETS TO PROJECT SUBCONTRACTORS TO ASSIST IN DEVELOPING SHOP DRAWINGS ON A CASE BY CASE BASIS. A SIGNED FILE TRANSFER AGREEMENT WILL BE REQUIRE PRIOR TO RELEASE OF MBA FILES.

4. CONTRACTOR TO REVIEW ALL SHOP DRAWING SUBMITTALS AND STAMP WITH APPROVAL PRIOR TO SUBMISSION TO ARCHITECT/ ENGINEER. ***SHOP DRAWINGS RECEIVED BY ARCHITECT/ENGINEER THAT HAVE NOT BEEN REVIEWED AND COORDINATED BY THE CONTRACTOR WILL BE RETURNED WITHOUT ARCHITECT/ENGINEER'S REVIEW.*** THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRECTING DIMENSIONS WHICH PERTAIN TO FABRICATION PROCESSES OR CONSTRUCTION TECHNIQUES PRIOR TO SUBMITTAL AND FOR COORDINATION OF WORK OF ALL TRADES.

5. CONTRACTOR MAY PROVIDE REVIEWED AND APPROVED SUBMITTALS IN AN ELECTRONIC .PDF FORMAT FOR ENGINEER REVIEW AND APPROVAL. IN LIEU OF ELECTRONIC SUBMITTALS, CONTRACTOR MAY PROVIDE NO MORE THAN FOUR PAPER COPIES OF EACH STRUCTURAL SHOP DRAWING SUBMITTAL TO THE ENGINEER. THE STRUCTURAL ENGINEER WILL REVIEW AND RETURN TWO OF THE COPIES TO THE ARCHITECT. ADDITIONAL COPIES REQUIRED BY THE CONTRACTOR SHALL BE MADE BY THE CONTRACTOR AFTER THE REVIEW PROCESS.

6. MBA REVIEW OF SHOP DRAWING SUBMITTALS IS FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS. REVIEW AND/OR APPROVAL OF SHOP DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR DEVIATIONS FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OR FOR ERRORS/ OMISSIONS IN THE SHOP DRAWINGS.

7. RESUBMITTED SHOP DRAWINGS SHALL HAVE CHANGES AND/OR ADDITIONS CLEARLY INDICATED, REVIEW OF RESUBMITTED SHOP DRAWINGS IS LIMITED TO THE ITEMS REQUIRING CORRECTION ON THE PREVIOUS SUBMITTAL.

EQUIPMENT NOTES:

1. CONTRACTOR SHALL COORDINATE BETWEEN DRAWINGS TO VERIFY ALL EQUIPMENT WEIGHTS, LOCATIONS, AND/OR PENETRATIONS. THIS INFORMATION SHALL BE PROVIDED TO SUBCONTRACTORS PERFORMING DELEGATED DESIGN AND SHALL BE IDENTIFIED ON THE CORRESPONDING SUBMITTAL.

2. EQUIPMENT LOADS CONSIDERED IN THIS DESIGN ARE SHOWN ON PLANS THUSLY (1400#). THE STRUCTURAL ENGINEER SHALL BE NOTIFIED AND ALLOWED TO MODIFY THE DESIGN AS REQUIRED IF FINAL EQUIPMENT WEIGHTS ARE HEAVIER OR THE EQUIPMENT LAYOUT DIFFERS FROM THE APPROXIMATE LAYOUT SHOWN ON THE PLAN.

3. CONTRACTOR SHALL FOLLOW THE MANUFACTURER'S CERTIFIED DRAWINGS, SPECIFICATIONS AND/OR OTHER REQUIREMENTS FOR ATTACHING THE EQUIPMENT TO THE STRUCTURE. IF STRUCTURAL MEMBERS CONFLICT WITH ATTACHMENT, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED AND ALLOWED TO MODIFY THE DESIGN AS REQUIRED TO ACCOMMODATE THE MANUFACTURER'S REQUIREMENTS.

SITE AND FOUNDATION:

1. THE DESIGN OF FOUNDATIONS AND RELATED COMPONENTS IS BASED ON AN ASSUMED ALLOWABLE BEARING PRESSURE. A GEOTECHNICAL ENGINEER SHALL BE RETAINED TO REVIEW THE EXISTING BUILDING SUBGRADE AND FOOTING EXCAVATIONS. THE GEOTECHNICAL ENGINEER SHALL PROVIDE WRITTEN VERIFICATION THAT THE STRUCTURE WILL COMPLY WITH THE ASSUMED VALUES.

2. ALLOWABLE SOIL BEARING PRESSURES (PSF):
   ISOLATED FOOTINGS 2000 PSF
   CONTINUOUS FOOTINGS 2000 PSF

3. ALLOWABLE SETTLEMENT:
   1" TOTAL SETTLEMENT
   1/2" DIFFERENTIAL SETTLEMENT OVER 30'-0"

4. EXCAVATE, WHERE REQUIRED, TO BUILDING AND STRUCTURE SUBGRADE.

5. PROOF-ROLL THE AREA UNDER THE BUILDING, PLUS 5'-0" ON ALL SIDES, WITH A LOADED DUMP TRUCK TO LOCATE ANY SOFT AREAS. A GEOTECHNICAL ENGINEER IS TO BE PRESENT DURING THIS OPERATION. ANY SOFT AREAS DETECTED ARE TO BE UNDERCUT AND REPLACED WITH ENGINEERED FILL.

6. ACCEPTABLE FILL MATERIAL OR ONSITE MATERIAL SHALL BE FREE OF ORGANICS, AND HAVE A P.I. OF LESS THAN 25, L.L. OF LESS THAN 50 AND A MAXIMUM DRY DENSITY OF GREATER THAN 100 PCF. CRUSHED STONE BACKFILL TO MEET REQUIREMENTS OF A.H.D. No. 57 STONE. DRAINAGE FILL SUPPORTING SLABS SHALL MEET THE REQUIREMENTS OF THE GEOTECHNICAL ENGINEER.

7. FILL, WHERE REQUIRED, IS TO BE PLACED IN 8" LOOSE LIFTS AND COMPACTED TO 98% STANDARD PROCTOR (ASTM D-698), WITHIN ±2% OF OPTIMUM MOISTURE CONTENT.

CONCRETE:

1. CONCRETE CONSTRUCTION AND QUALITY ASSURANCE SHALL BE IN ACCORDANCE WITH CURRENT ACI STANDARDS.

2. CONCRETE SCHEDULES

ITEM	28 DAY COMPRESSIVE STRENGTH
A. CONCRETE IN CMU CELLS	3000 PSI GROUT
B. ALL OTHER CONCRETE	4000 PSI NORMAL WEIGHT

3. CONCRETE COVER OVER REINFORCING (UNO)
   A. UNFORMED SURFACE IN CONTACT WITH EARTH: 3 IN.
   B. UNFORMED SURFACE OVER VAPOR BARRIER: 2 IN.
   C. FORMED SURFACES EXPOSED TO EARTH OR WEATHER
      #6 AND LARGER 2 IN.
      #5 AND SMALLER 1 1/2 IN.
   D. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER:
      WALLS, SLABS; 3/4 IN.
      COLUMNS, BEAMS: 1 1/2 IN. TO TIES

4. CONCRETE AT SLABS ON GRADE SHALL HAVE A NOMINAL MAXIMUM COARSE AGGREGATE SIZE OF 3/4 INCH, ADJUST PORTIONS OF COMBINED COARSE, INTERMEDIATE AND FINE AGGREGATES TO PROVIDE A COARSENESS FACTOR OF 60 TO 75%.

5. ALL REINFORCING SHALL CONFORM TO THE LATEST REVISION OF ASTM SPECIFICATION A615, GRADE 60 AND BE DETAILED IN ACCORDANCE WITH THE LATEST REVISION OF ACI STANDARD 315.

6. NO REINFORCING BAR SHALL BE WELDED IN ANY MANNER, UNLESS SPECIFICALLY SHOWN OR NOTED ON THE DRAWINGS.

7. CONTINUOUS FOOTING REINFORCING BARS SHALL BE LAPPED 30 BAR DIAMETERS, BUT NOT LESS THAN 1'-0".

8. GRADE BEAM, ELEVATED BEAM, AND ELEVATED SLAB REINFORCING BARS SHALL BE SPLICED ONLY AS SHOWN ON THE DRAWINGS, EXCEPT THE REINFORCING DESIGNATED AS "CONTINUOUS" SHALL HAVE A CLASS "B" LAP SPLICE (PER ACI 318). LAP SPLICES OF CONTINUOUS REINFORCING SHALL BE MADE OVER SUPPORTS FOR BOTTOM BARS AND FOR INTERMEDIATE BARS AND AT MID-SPAN FOR TOP BARS, AT EXTERIOR SUPPORTS, TOP AND BOTTOM BARS SHALL BE HOOKED AND INTERMEDIATE BARS SHALL EXTEND TO WITHIN 2" OF EXTERIOR FACE.

9. COLUMN AND WALL VERTICAL REINFORCING BARS SHALL BE LAPPED WITH A CLASS "B" SPLICE, WALL HORIZONTAL REINFORCING BARS SHALL BE LAPPED 30 DIAMETERS AT SPLICE POINTS. PROVIDE CORNER BARS FOR WALLS.

10. PROVIDE FULL EMBEDMENT FOR ALL DOWELS. IF NOT OTHERWISE SPECIFIED, DOWEL SIZE AND SPACING SHALL BE THE SAME AS MAIN REINFORCING.

11. CONSTRUCTION JOINTS IN CONCRETE BEAMS AND SLABS SHALL BE AT OR NEAR MIDSPAN. ALL CONSTRUCTION JOINTS TO BE KEYED.

12. HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE PERMITTED IN WALLS AND BEAMS, UNLESS SHOWN ON THE STRUCTURAL DRAWINGS.

13. CONDUIT, PIPES, AND SLEEVES SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS ON CENTER, NOT HAVE AN OUTSIDE DIAMETER GREATER THAN 1/3 THE OVERALL THICKNESS OF THE SLAB, WALL OR BEAM IN WHICH THEY ARE EMBEDDED, AND SHALL HAVE A MINIMUM COVER OF 1 1/2 INCH FOR CONCRETE EXPOSED TO EARTH OR WEATHER AND 3/4 INCH FOR CONCRETE NOT EXPOSED TO EARTH OR WEATHER.

14. PIPING AND CONDUIT SHALL BE SO FABRICATED AND INSTALLED THAT CUTTING, BENDING, OR DISPLACEMENT OF REINFORCEMENT FROM ITS PROPER LOCATION WILL NOT BE REQUIRED.

15. THE CONTRACTOR SHALL SUBMIT, FOR REVIEW, SHOP DRAWINGS FOR ALL REINFORCING BARS INCLUDING DETAILS AT ALL OPENINGS AND ASSOCIATED ADDED REINFORCEMENT AS SHOWN ON TYPICAL DETAILS.

TENSION LAP SPLICE LENGTH

BAR SIZE	f'c = 3000 PSI				f'c = 4000 PSI			
	TOP BARS		OTHER BARS		TOP BARS		OTHER BARS	
	A	B	A	B	A	B	A	B
#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"

CONCRETE MASONRY:

1. MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530.1 SPECIFICATION OR TMS 402/602.

2. MASONRY COMPRESSIVE STRENGTH (f'm) SHALL BE 1900 PSI BASED ON THE UNIT STRENGTH METHOD OR VERIFIED BY PRISM TESTS IN ACCORDANCE WITH ASTM C 1314.

3. MORTAR SHALL BE TYPE S OR M.

4. ALL REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.

5. NO REINFORCING BAR SHALL BE WELDED IN ANY MANNER, UNLESS SPECIFICALLY SHOWN OR NOTED ON THE DRAWINGS.

6. BLOCK FILL SHALL BE GROUT WITH AN 8" TO 11" SLUMP, PROPORTIONED PER ASTM C 476 OR ATTAINING 3000 PSI AT 28 DAYS PER ASTM C 1019. DO NOT USE MORTAR AS BLOCK FILL.

7. ALL GROUT SHALL BE CONSOLIDATED AT TIME OF PLACEMENT USING A LOW-VELOCITY MECHANICAL VIBRATOR WITH A 3/4-INCH HEAD. RE-CONSOLIDATE GROUT AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED. DO NOT PLACE NEXT LIFT OF GROUT UNTIL LOWER LIFT HAS BEEN RE-CONSOLIDATED.

8. ALL BLOCK CELLS AND CAVITIES BELOW GRADE SHALL BE GROUTED SOLID. ALL LINTELS & BOND BEAMS SHALL BE GROUTED SOLID.

9. ALL BLOCK CELLS WHICH HAVE VERTICAL REINFORCING SHALL BE GROUTED FULL-HEIGHT IN 5'-0" LIFTS (MAXIMUM HEIGHT). PROVIDE 1 1/2" (MINIMUM) GROUT KEY BELOW MORTAR JOINT AT TOP OF EACH LIFT.

10. VERTICAL REINFORCING SHALL BE DOWELED TO FOOTING WITH HOOKED BARS AT THE BASE AND EXTEND FULL-HEIGHT INTO BOND BEAM AT THE TOP. WHERE SPLICES ARE NECESSARY, PROVIDE LAP LENGTH = 48 BAR DIAMETERS.

11. VERTICAL REINFORCING SHALL BE LOCATED IN THE CENTER OF THE BLOCK CELLS, UNLESS NOTED, AND SHALL BE HELD IN PLACE WITH BAR POSITIONERS (HECKMANN #376 OR HOHMANN & BARNARD #RB) PRIOR TO GROUTING. "WET-STICKING" OF REINFORCING SHALL NOT BE ALLOWED.

12. MINIMUM VERTICAL WALL REINFORCING IN ALL WALLS SHALL CONSIST OF ONE VERTICAL (MATCHING WALL REINF. BUT NOT LESS THAN #5) IN EACH CORNER, AT EACH DOOR & WINDOW JAMB & AT EACH SIDE OF CONTROL AND/OR EXPANSION JOINTS. PROVIDE ADDITIONAL VERTICAL REINFORCING AS SHOWN IN SECTIONS AND AS NOTED ON PLANS.

13. AT CORNERS AND INTERSECTIONS OF BOND BEAMS IN WALLS, PROVIDE CORNER BARS (48 DIAMETERS LONG EA. LEG) TO TIE WALLS TOGETHER. BAR DIAMETER SHALL MATCH BOND BEAM REINFORCING.

14. AT TOP OF ALL MASONRY WALLS (BEARING OR NON-BEARING), PROVIDE 8" DEEP CONTINUOUS BOND BEAM REINFORCED WITH 2#5 CONTINUOUS, UNLESS NOTED OTHERWISE.

15. WHERE CMU IS PLACED IN A STACK BOND PATTERN, HORIZONTAL WALL REINFORCING SHALL CONSIST OF A MINIMUM STANDARD (9 GAGE) LADDER-TYPE JOINT REINFORCING AT EVERY COURSE (8" O.C.) FOR 12" CMU OR AT EVERY OTHER COURSE (16" O.C.) FOR 8" CMU. COORDINATE W/ ARCHITECTURAL DRAWINGS. WHERE CMU IS PLACED IN A RUNNING BOND PATTERN, HORIZONTAL WALL REINFORCING SHALL CONSIST OF A MINIMUM STANDARD (9 GAGE) LADDER-TYPE REINFORCING AT EVERY OTHER COURSE (16" O.C.).

16. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR DETAILS AND LOCATIONS OF MASONRY CONTROL JOINTS. IF NOT OTHERWISE SHOWN, DO NOT EXCEED 30'-0" BETWEEN BLOCK WALL CONTROL JOINTS AND 20'-0" BETWEEN BRICK VENEER CONTROL JOINTS.

17. ANCHOR WALLS TO SUPPORTING STRUCTURES AS SHOWN ON THE STRUCTURAL AND ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY BRACING OF ALL MASONRY WALLS DURING CONSTRUCTION.

18. THE CONTRACTOR SHALL SUBMIT, FOR REVIEW, SHOP DRAWINGS FOR ALL REINFORCING BARS INCLUDING DETAILS AT ALL OPENINGS AND ASSOCIATED ADDED REINFORCEMENT AS SHOWN ON TYPICAL DETAILS.

POST-INSTALLED ANCHORS:

1. ANCHOR CAPACITY USED IN DESIGN IS BASED UPON THE TECHNICAL DATA PUBLISHED BY THE MANUFACTURER. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED ON THE FOLLOWING; HAVING AN ICC-ES ESR OR IAPMO UES ER SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE, AND INSTALLATION TEMPERATURE.

2. 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.

3. EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS, BY USE OF HILTI FERROSCAN, GPR, X-RAY, CHIPPING OR OTHER MEANS APPROVED BY THE ENGINEER OF RECORD. DO NOT CUT PRESTRESSED OR POST TENSIONED TENDONS WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD.

4. INSTALL ANCHORS PER THE MANUFACTURER PRINTED INSTALLATION INSTRUCTIONS.

5. UNLESS NOTED OTHERWISE, ALL ANCHORS TO BE INSTALLED WITH AN EMBEDMENT DEPTH EQUAL TO OR GREATER THAN MANUFACTURER STANDARD EMBEDMENT. OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING A SYSTEM THAT IS APPROVED FOR SUCH INSTALLATIONS IN THE PRODUCT CODE REPORT.

6. THE CONTRACTOR SHOULD ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED.

7. UNLESS SPECIFICALLY NOTED ON THE DRAWINGS, APPROVED ANCHORS ARE AS FOLLOWS:

   A. ANCHORAGE TO CONCRETE

      1. ADHESIVE ANCHORS FOR CONCRETE USE:
         a. SIMPSON STRONG-TIE AT-XP ADHESIVE ANCHORING SYSTEM WITH THREADED RODS (IAPMO UES ER-263).
         b. SIMPSON STRONG-TIE SET-XP ADHESIVE ANCHORING SYSTEM WITH THREADED RODS (ICC-ES ESR-2508) FOR SLOW CURE APPLICATIONS.
         c. HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT SYSTEM WITH THREADED ROD (ICC-ES ESR-3187).
         d. HILTI HIT-RE 500-SD EPOXY ADHESIVE ANCHORING SYSTEM WITH HAS-E THREADED ROD (ICC-ES ESR-2322) FOR SLOW CURE APPLICATIONS.

      2. MECHANICAL ANCHORS FOR CONCRETE USE:
         a. SIMPSON STRONG-TIE TITEN-HD (ICC-ES ESR-2713).
         b. SIMPSON STRONG-TIE STRONG-BOLT 2 (ICC-ES ESR-3037).
         c. HILTI KWIK HUS-EZ AND KWIK HUS EZ-I SCREW ANCHORS (ICC-ES ESR-3027).
         d. HILTI KWIK BOLT-TZ EXPANSION ANCHORS (ICC-ES ESR-1917).

   B. REBAR DOWELING INTO CONCRETE

      1. ADHESIVE ANCHORS FOR CONCRETE USE:
         a. SIMPSON STRONG-TIE SET-XP ADHESIVE ANCHORING SYSTEM WITH CONTINUOUSLY DEFORMED REBAR (ICC-ES ESR-2508).
         b. HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT SYSTEM WITH CONTINUOUSLY DEFORMED REBAR (ICC-ES ESR-3187).
         c. HILTI HIT-RE 500-SD EPOXY ADHESIVE ANCHORING SYSTEM WITH CONTINUOUSLY DEFORMED REBAR (ICC-ES ESR-2322).

   C. ANCHORAGE TO SOLID GROUTED MASONRY

      1. ADHESIVE ANCHORS USE:
         a. SIMPSON STRONG-TIE AT-XP ADHESIVE ANCHORING SYSTEM WITH THREADED ROD OR REBAR (IAMPMO UES ER-281).
         b. SIMPSON STRONG-TIE SET-XP ADHESIVE ANCHORING SYSTEM WITH THREADED ROD OR REBAR (IAMPMO UES ER-265).
         c. HILTI HIT-HY 70 MASONRY ADHESIVE ANCHORING SYSTEM PER ICC ESR-2682. STEEL ANCHOR ELEMENT SHALL BE HILTI HAS-E CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR.

      2. MECHANICAL ANCHORS USE:
         a. SIMPSON STRONG-TIE TITEN-HD (ICC-ES ESR-1056).
         b. SIMPSON STRONG-TIE STRONG-BOLT 2 (IAPMO-UES ER-240).
         c. HILTI KWIK HUS-EZ SCREW ANCHORS (ICC-ES ESR-3056).
         d. HILTI KWIK BOLT-3 EXPANSION ANCHORS (ICC-ES ESR-1385).

   D. ANCHORAGE TO HOLLOW / MULTI-WYTHE MASONRY

      1. ADHESIVE ANCHORS USE:
         a. SIMPSON STRONG-TIE "SET" (ICC-ES ESR-1772).
         b. SIMPSON STRONG-TIE AT (ICC-ES ESR-1958).
         c. HILTI HIT-HY 70 MASONRY ADHESIVE ANCHORING SYSTEM (ICC-ES ESR-3342).
         d. STEEL ANCHOR ELEMENT SHALL BE CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR. THE APPROPRIATE SIZE SCREEN TUBE SHALL BE USED PER ADHESIVE MANUFACTURER'S RECOMMENDATION.

STRUCTURAL STEEL:

1. DESIGN, CONSTRUCTION, QUALITY ASSURANCE, AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH CURRENT AISC STANDARDS.

2. ALL STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992

3. ALL STRUCTURAL STEEL PLATES, ANGLES AND CHANNELS SHALL CONFORM TO ASTM A36.

4. ALL STRUCTURAL STEEL SQUARE, RECTANGULAR AND ROUND HSS SECTIONS SHALL CONFORM TO ASTM A500, GRADE B.

5. ALL STRUCTURAL STEEL PIPE SHALL CONFORM TO ASTM A53, TYPE E OR S, GRADE B

6. FABRICATION AND ERECTION SHALL CONFORM TO AISC CODE OF STANDARD PRACTICE.

7. ALL WELDING SHALL CONFORM TO AWS STANDARDS. THICKNESS OF WELDS ARE AS SHOWN, SPECIFIED OR REQUIRED.

8. ALL BOLTED CONNECTIONS SHALL BE MINIMUM 3/4" DIAMETER, A325 HIGH STRENGTH BOLTS, UNLESS NOTED OTHERWISE.

9. THE STRUCTURAL STEEL FABRICATOR SHALL PROVIDE CERTIFICATIONS BY A PROFESSIONAL STRUCTURAL ENGINEER (P.E.) REGISTERED IN THE STATE OF ALABAMA THAT THE CONNECTION DESIGN IS IN ACCORDANCE WITH ALL APPLICABLE CODES AND SPECIFICATIONS. CONNECTION DESIGN CALCULATIONS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW.

10. ALL BEAM CONNECTIONS SHALL BE "SIMPLE SHEAR CONNECTIONS" UNLESS NOTED OTHERWISE. WHERE BEAM REACTIONS AND/OR DESIGN FORCES ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS, THE CONNECTIONS SHALL BE DESIGNED TO SUPPORT A REACTION EQUAL TO ONE-HALF THE TOTAL UNIFORM LOAD CAPACITY FROM THE MAXIMUM UNIFORM LOAD TABLE (LATEST AISC MANUAL OF STEEL PRACTICE) MULTIPLIED BY A FACTOR OF 1.2 (NON-COMPOSITE BEAMS) OR 1.45 (COMPOSITE BEAMS) FOR GIVEN SHAPE, SPAN, AND GRADE OF STEEL.

STEEL DECK:

1. STEEL DECK CONSTRUCTION SHALL BE IN ACCORDANCE WITHTHE LATEST EDITION OF SDI STANDARDS.

2. ATTACH ROOF DECK TO SUPPORTS AT 12" OC. W/ #12 TEK SCREWS. ATTACH TO PERIMETER SUPPORTS AT 6" OC. PROVIDE #10 TEK SCREW SIDELAP FASTENERS AT 36" OC. (MIN. 1 PER SPAN).

3. DECK SUPPORTS AROUND STEEL COLUMNS AND CLOSURE ANGLES SHALL BE SUPPLIED BY THE DECK MANUFACTURER, IF REQUIRED.

PRE-FABRICATED COLD-FORMED STEEL TRUSSES:

1. THE DESIGN, MANUFACTURE, QUALITY ASSURANCE AND ERECTION OF COLD-FORMED STEEL TRUSSES SHALL BE IN ACCORDANCE WITH THE CURRENT AISI NORTH AMERICAN STANDARDS FOR COLD-FORMED STEEL FRAMING.

2. A TRUSS DESIGN PACKAGE SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW PRIOR TO FABRICATION AND ERECTION. THIS PACKAGE SHALL INCLUDE, AT A MINIMUM, EACH INDIVIDUAL TRUSS DESIGN DRAWING AND CALCULATION, THE TRUSS PLACEMENT DIAGRAM, THE PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING METHOD AND DETAILS, AND ANY OTHER STRUCTURAL DETAILS GERMANE TO THE TRUSSES. THE TRUSS DESIGN DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF THE TRUSS DESIGNER WHO SHALL BE REGISTERED IN THE STATE OF ALABAMA.

3. TRUSS TO TRUSS CONNECTIONS SHALL BE DESIGNED AND SPECIFIED BY THE TRUSS MANUFACTURER FOR THE DESIGN LOADS.

4. TRUSS MANUFACTURER SHALL DESIGN AND PROVIDE COLD-FORMED STEEL FRAMING FOR ALL RIDGE, HIP RIDGE AND VALLEY MEMBERS.

5. ALL TEMPORARY AND PERMANENT BRACING MEMBERS AND CONNECTIONS REQUIRED FOR TRUSSES SHALL BE DESIGNED AND DETAILED BY THE TRUSS DESIGNER. AT A MINIMUM, TRUSS INSTALLER SHALL COMPLY WITH THE "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING, AND BRACING OF COLD-FORMED STEEL TRUSSES" BY THE COLD-FORMED STEEL COUNCIL.

6. TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING SUPERIMPOSED LOADS:
   ROOF TOP CHORD DEAD LOAD————————————20 PSF
   ROOF BOTTOM CHORD DEAD LOAD————————————5 PSF
   ROOF TOP CHORD LIVE LOAD————————————20 PSF

7. TRUSSES SHALL BE DESIGNED FOR COMPONENT AND CLADDING WIND LOADS BASED ON THE PROVIDED DESIGN CRITERIA AND COMPONENT AND CLADDING WIND LOAD TABLES.

8. TRUSS DESIGNER SHALL VERIFY THAT ALL EQUIPMENT WEIGHTS, CONCENTRATED LOADS, AND LOCATIONS ARE PROVIDED BY THE GENERAL CONTRACTOR. GENERAL CONTRACTOR SHALL PROVIDE THIS INFORMATION TO THE TRUSS DESIGN

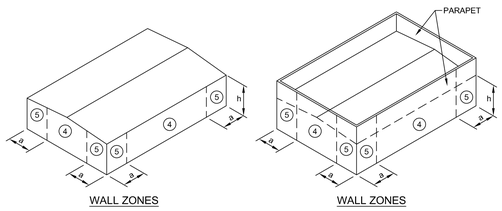
COMPONENTS AND CLADDING DESIGN WIND PRESSURES (PSF)

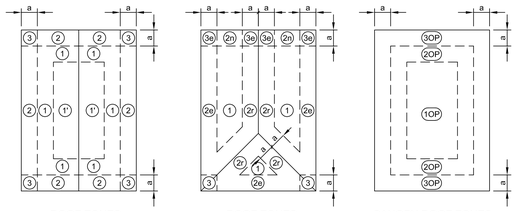
ZONE	EFFECTIVE WIND AREA									
	10 SF		20 SF		50 SF		100 SF		200 SF	
	XXX	-XXX	XXX	-XXX	XXX	-XXX	XXX	-XXX	XXX	-XXX
1	22	-65	19	-65	17	-40	16	-21	16	-21
2e	22	-65	19	-65	17	-40	16	-21	16	-21
2n	22	-95	19	-82	17	-65	16	-52	16	-52
2r	22	-95	19	-82	17	-65	16	-52	16	-52
3e	22	-95	19	-82	17	-65	16	-52	16	-52
3r	22	-112	19	-96	17	-75	16	-59	16	-59
4	35	-38	34	-37	32	-35	30	-33	30	-33
5	35	-47	34	-44	32	-40	30	-37	30	-37
2OH	22	-95	19	-82	17	-64	16	-52	16	-52
3OH	25	-103	22	-94	19	-74	16	-60	16	-60

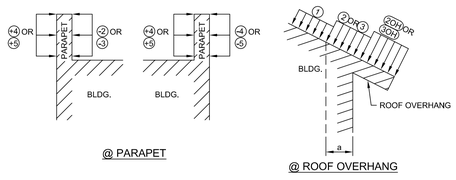
NOTE:
1. PLUS AND MINUS SIGNS DENOTE PRESSURE ACTING TOWARD AND AWAY FROM BUILDING SURFACES.
2. PRESSURE ZONE LOCATIONS ARE IN ACCORDANCE WITH ASCE 7-16.
3. PRESSURES INDICATED ARE BASED ON ULTIMATE WIND SPEEDS PER ASCE 7-16, TO CONVERT PRESSURES TO NOMINAL LOADS, MULTIPLY VALUES IN CHART BY A FACTOR OF 0.6.
4. a = 6'

STORM SHELTER COMPONENTS AND CLADDING DESIGN WIND PRESSURES (PSF)

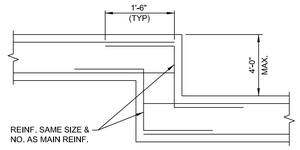
ZONE	EFFECTIVE WIND AREA									
	10 SF		20 SF		50 SF		100 SF		200 SF	
	XXX	-XXX	XXX	-XXX	XXX	-XXX	XXX	-XXX	XXX	-XXX
1	116	-306	109	-292	103	-265	102	-252	102	-238
1'	116	-197	109	-197	103	-197	102	-197	102	-177
2	116	-388	109	-367	103	-333	102	-320	102	-292
3	116	-510	109	-469	103	-408	102	-367	102	-320
4	211	-224	204	-218	197	-211	185	-193	180	-194
5	211	-265	204	-252	197	-231	185	-218	180	-204



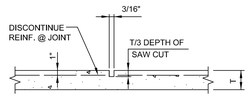




ZONE LAYOUT DIAGRAMS

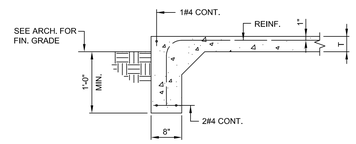


TYPICAL FOOTING STEP DETAIL



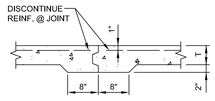
TYPICAL SAWED CONTROL JOINT

NOTES:
1. USE SAWS, BLADES AND SKID PLATES BY SOFF-CUT INTERNATIONAL OR EQUAL.
2. SEE PLAN FOR JOINT LAYOUT OR PROVIDE @ 12'-0" OC. MAX, EA. WAY.
3. START CUTTING SAWED JOINTS AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT RAVELING OR DISLODGING OF AGGREGATES. THIS WILL TYPICALLY BE FROM 1 HOUR IN HOT WEATHER TO 4 HOURS IN COLD WEATHER AFTER COMPLETING FINISHING OF SLAB IN THAT JOINT LOCATION.
4. EXTEND SAWED JOINT TO THE SLAB BOUNDARIES AND ABUTMENTS, INCLUDING COLUMNS, DRAINS AND OTHER PENETRATIONS IN THE PATH OF A DEFINED JOINT. IMPLEMENT METHODS AND TIMING OF THE SAW CUT BEYOND THE LIMITS OF THE SOFF-CUT SAW REACH TO PROVIDE A CONSISTENT DEPTH OF CUT WITH MINIMAL RAVELING OF JOINT EDGES.



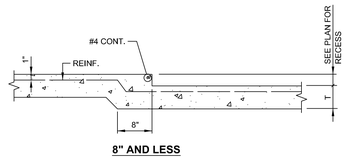
TYPICAL TURNDOWN SLAB DETAIL

NOTE:
T = SLAB THICKNESS (SEE PLAN)



TYPICAL KEYED CONTROL JOINT

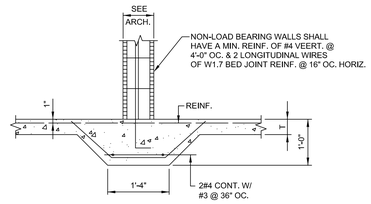
NOTES:
1. T = SLAB THICKNESS (SEE PLAN)
2. SEE PLAN FOR LOCATION OF JOINTS



8" AND LESS

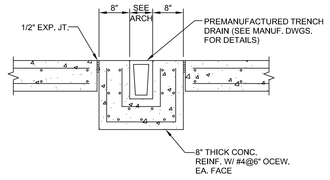
TYPICAL SLAB RECESS @ SLAB ON GRADE

NOTES:
1. T = SLAB THICKNESS (SEE PLAN)
2. SEE PLAN FOR LOCATION OF SLAB DEPRESSION



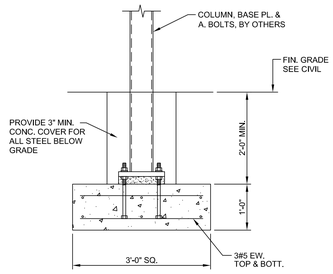
TYPICAL THICKENED SLAB @ NON-LOAD BEARING MASONRY PARTITIONS

NOTES:
1. T = SLAB THICKNESS (SEE PLAN FOR SLAB CONSTRUCTION)
2. COORD. LOCATION OF NON-LOAD BEARING MASONRY PARTITIONS W/ ARCH.



TYPICAL TRENCH DRAIN DETAIL

NOTE:
SEE ARCH. DWGS. FOR LOCATIONS



TYPICAL CANOPY COLUMN FOOTING DETAIL

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SHEET TITLE
GENERAL NOTES & TYPICAL DETAILS

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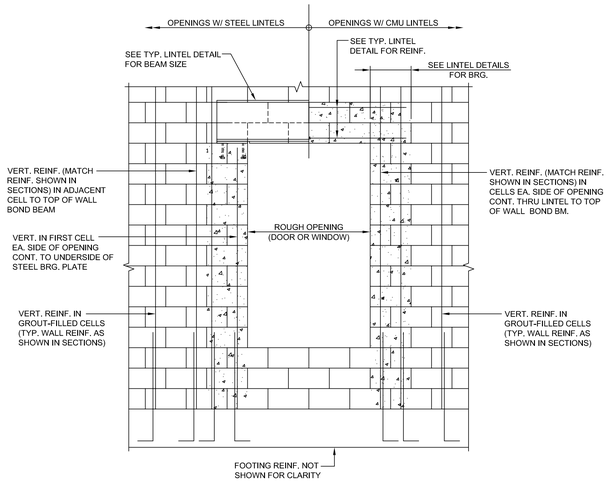
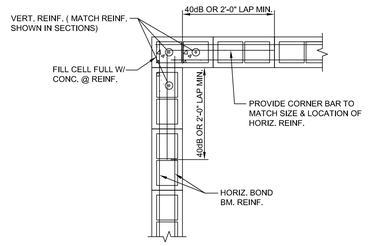
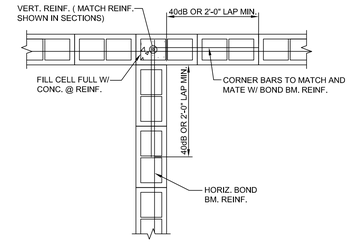


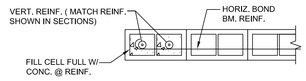
TYPICAL REINF. @ MASONRY WALL OPENINGS



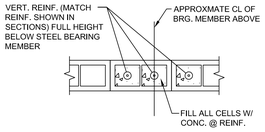
TYPICAL CORNER MASONRY WALL REINF. DETAIL



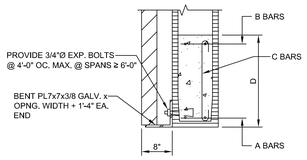
TYPICAL INTERSECTION MASONRY WALL REINF. DETAIL



TYPICAL JAMB AND END OF MASONRY WALL REINF. DETAIL



TYPICAL WALL REINF. BELOW BEARING MEMBER DETAIL

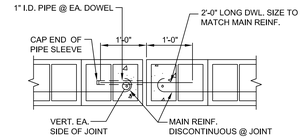


NOTE:
GROUT & REINF. CELLS FOR FULL BRG. LENGTH OF LINTEL (SEE SCHEDULE)

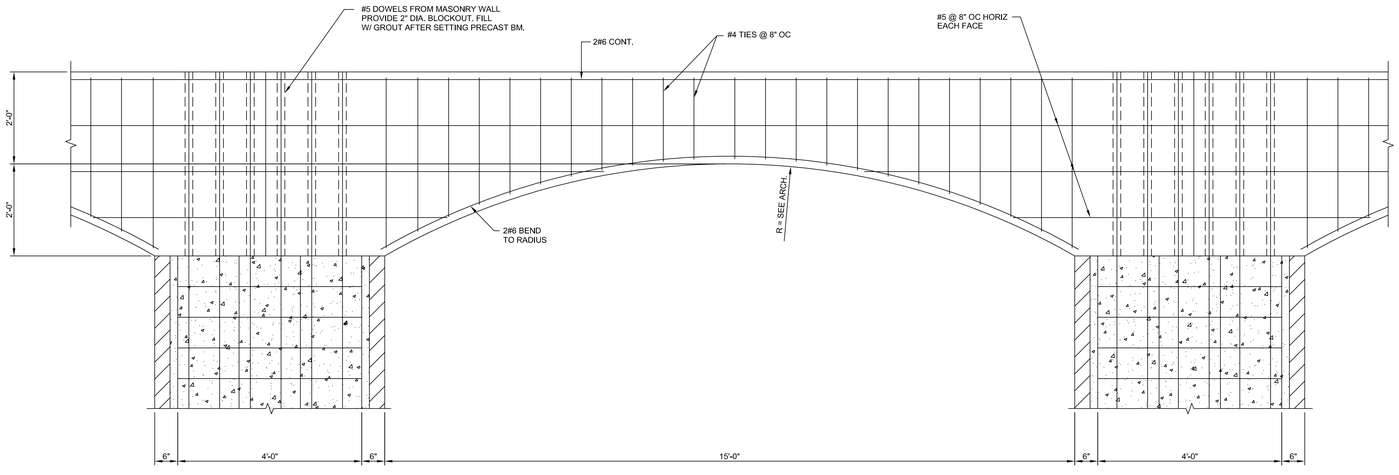
8" MASONRY LINTEL SCHEDULE					
MAX. SPAN	D	A BARS	B BARS	C BARS	BEARING LENGTH
≤ 4'-0"	16"	1#5	1#5	-	8"
≤ 6'-0"	16"	2#5	2#5	-	1'-4"

12" MASONRY LINTEL SCHEDULE					
MAX. SPAN	D	A BARS	B BARS	C BARS	BEARING LENGTH
≤ 4'-0"	16"	2#5	2#5	-	8"
≤ 6'-0"	16"	2#5	2#5	-	1'-4"
≤ 15'-0"	48"	2#6	2#6	#3@16" OC.	2'-0"

TYPICAL LOAD BEARING WALL LINTEL DETAIL & SCHEDULE



TYPICAL WALL CONTROL JOINT DETAIL AT U-BLOCK FILLED WITH CONCRETE OR AT CONCRETE BEAM



TYPICAL CONCRETE ARCH ELEVATION

NOTES:
1. CAST CONCRETE ARCH BEAM ON SITE.
2. 4000 PSI CONCRETE.
3. SEE SECTION 6/S3.02 FOR OTHER DETAILS.

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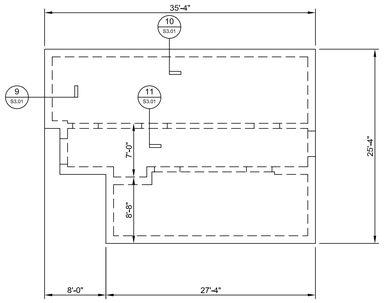
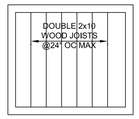


SHELTER ROOF FRAMING PLAN

1/8" = 1'-0" SLAB ELEV. 12'-0"

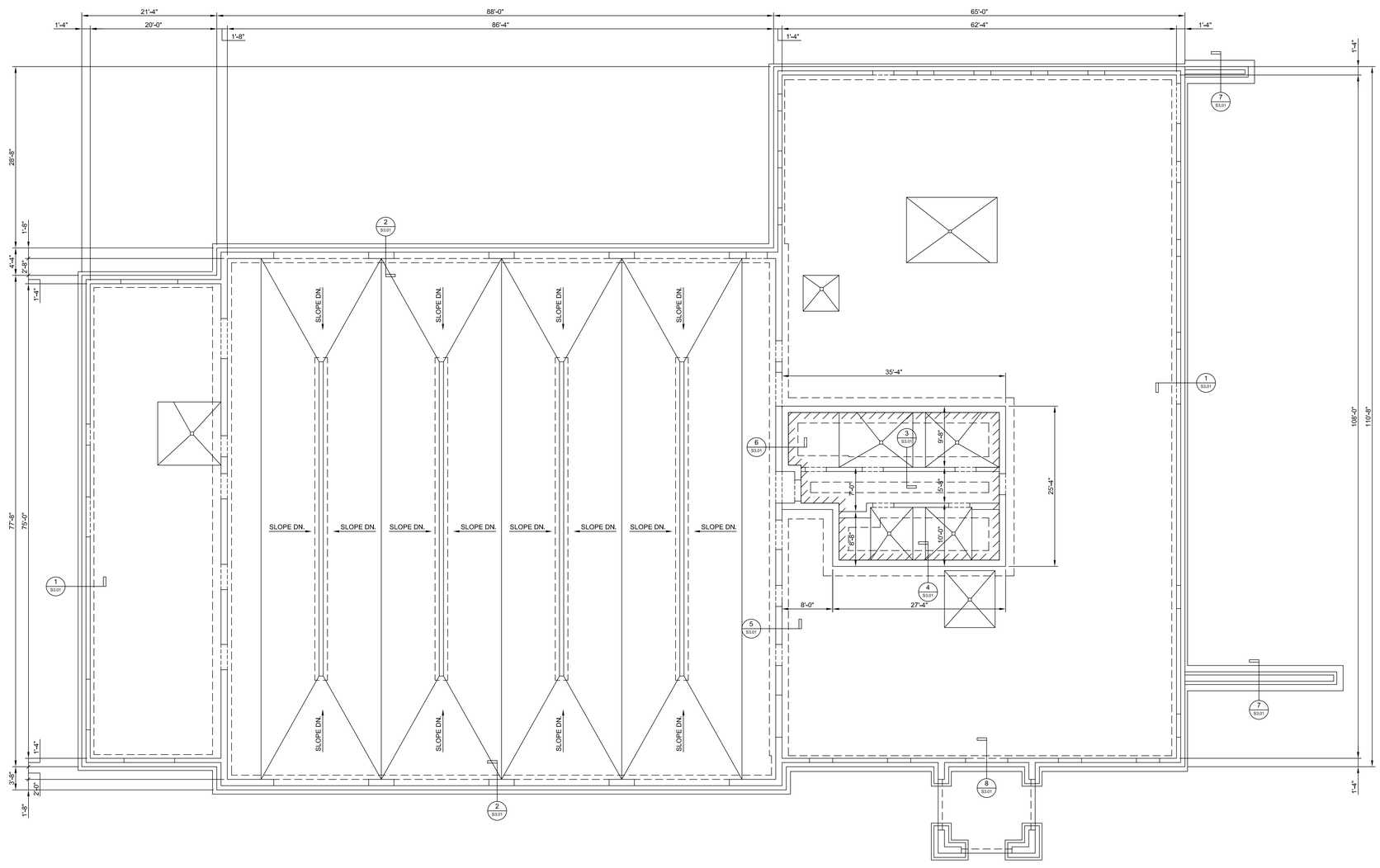
SLAB CONSTRUCTION:
5" CONC. SLAB ON 3", 20 GA. GALV., COMPOSITE METAL DECKING, REINF. W/ #5@8" OCEW.



ATTIC FLOOR FRAMING PLAN

1/8" = 1'-0"

FLOOR CONSTRUCTION:
¾" T&G FRT PLYWOOD ON DOUBLE 2x10 PT FLOOR JOISTS



FOUNDATION & FLOOR PLAN

1/8" = 1'-0" FIN. FLR. ELEV. 0'-0"

TYPICAL FLOOR CONSTRUCTION:
4" CONC. SLAB ON DRAINAGE FILL
REINF. W/ 6x6-W2.1xW2.1 W.W.R.

APPARATUS FLOOR CONSTRUCTION:
8" CONC. SLAB ON DRAINAGE FILL
REINF. W/ #5@12" OCEW. TOP & BOTTOM.

NOTES:
1. TOP OF FOOTING ELEV. (-2'-0") BELOW FIN. FLR. U.N.O.
2. SHADED AREA DENOTES STORM SHELTER.
3. COORDINATE SLOPES IN SLAB AND DRAINS W/ ARCH/ PLUMBING GC COORDINATE RECTANGULAR DRAIN LOCATIONS BEFORE POURING SLAB.

PLOT DATE: 11/18/2024, 10:46 AM

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10-31-24

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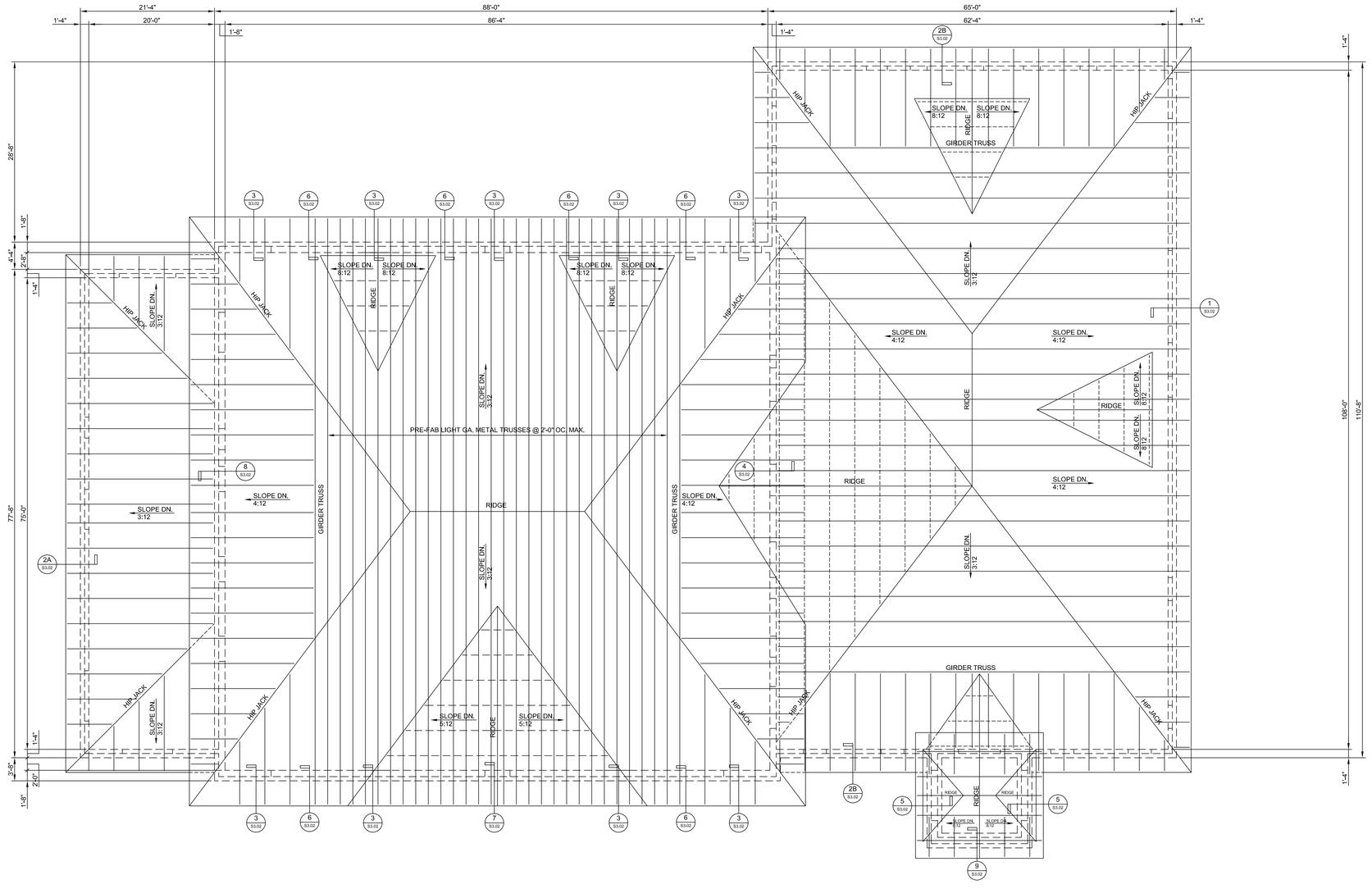

ROOF FRAMING PLAN

1/8" = 1'-0"

ROOF CONSTRUCTION:
1 1/2", 20 GA. GALV., WIDE RIB (TYPE "B") METAL ROOF DECK
ON PRE-FAB LIGHT GA. METAL TRUSSES @ 4'-0" OC. (U.N.O.)

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ROOF FRAMING PLAN

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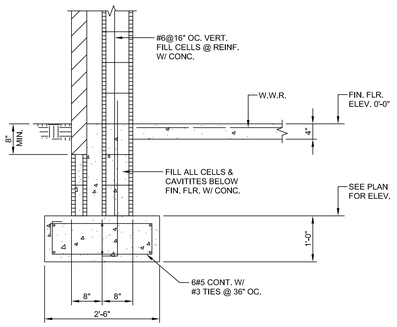
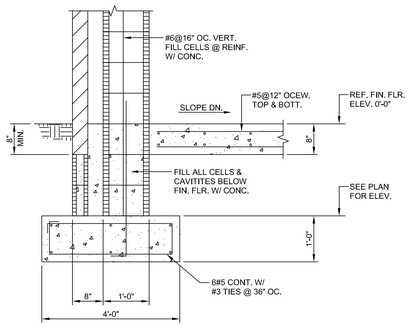
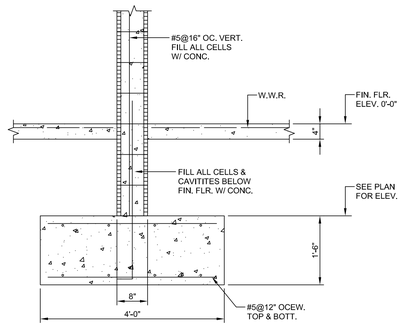


1 S3.01 SECTION
3/4" = 1'-0"



2 S3.01 SECTION
3/4" = 1'-0"



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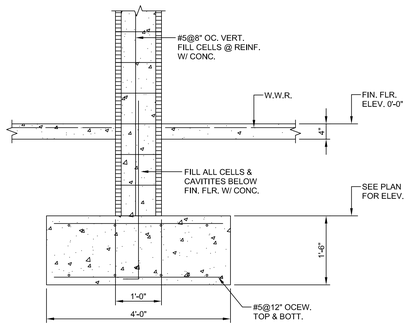

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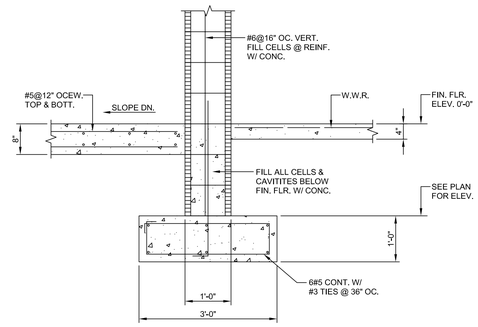

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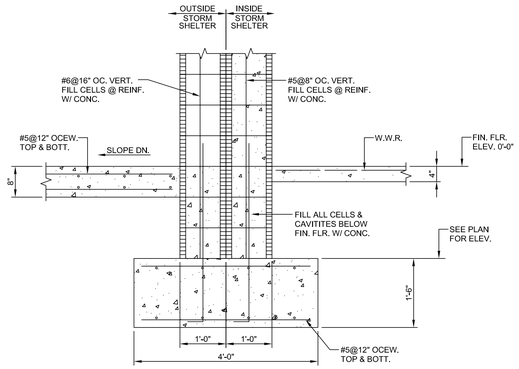

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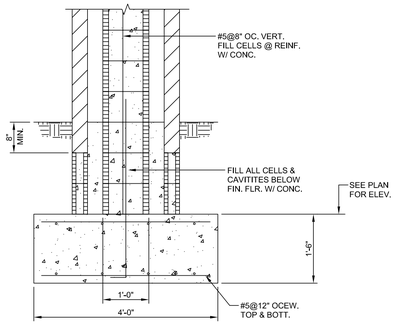

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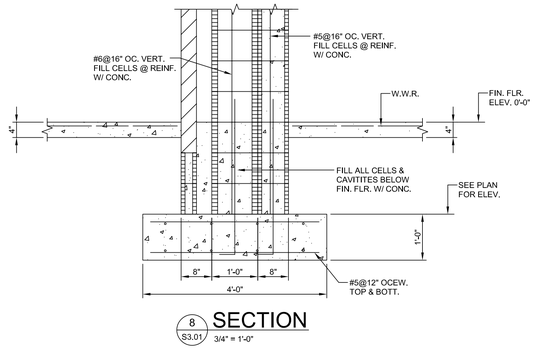

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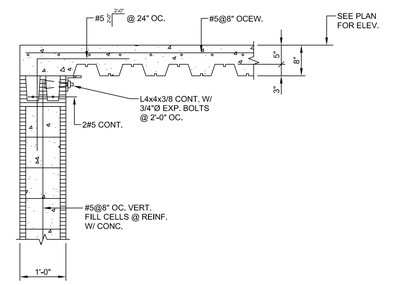

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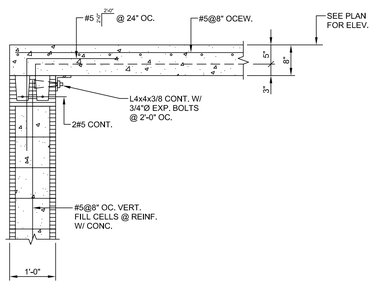

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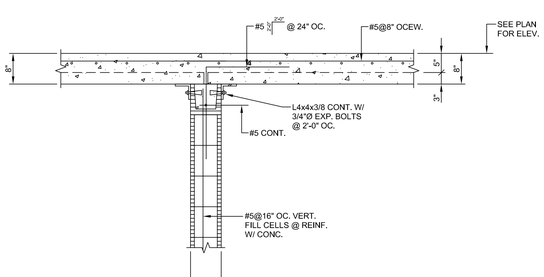

11 S3.01 SECTION
3/4" = 1'-0"

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MBA ENGINEERS, INC.
STRUCTURAL CIVIL GEOTECHNICAL

ALABAMA
No. 30455
PROFESSIONAL
ENGINEER
ANDREW T. MARTIN
10-31-24

ISSUED FOR:
BID / CONSTRUCTION DOCUMENTS
OCTOBER 31, 2024

A NEW FACILITY FOR:
Pell City
FIRE STATION #2
2911 MARTIN STREET SOUTH
CROPWELL, AL 35054

CMH ARCHITECTS
1800 International Park Drive
Suite 300
Birmingham, Alabama 35243
205/969-2696
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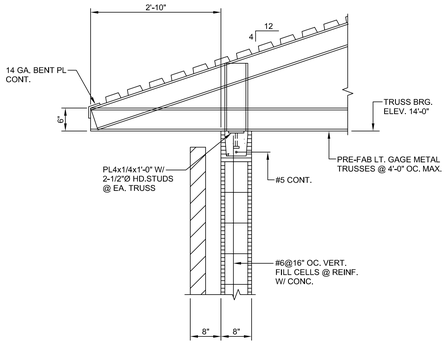

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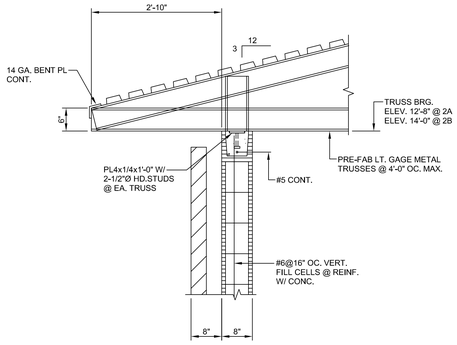

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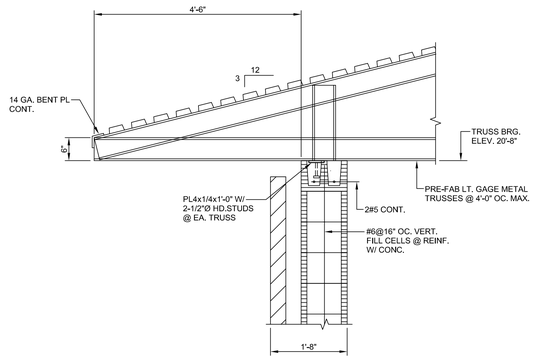
3/4" = 1'-0"

2A TRUSS BRG. ELEV. 12'-8"
2B TRUSS BRG. ELEV. 14'-0"



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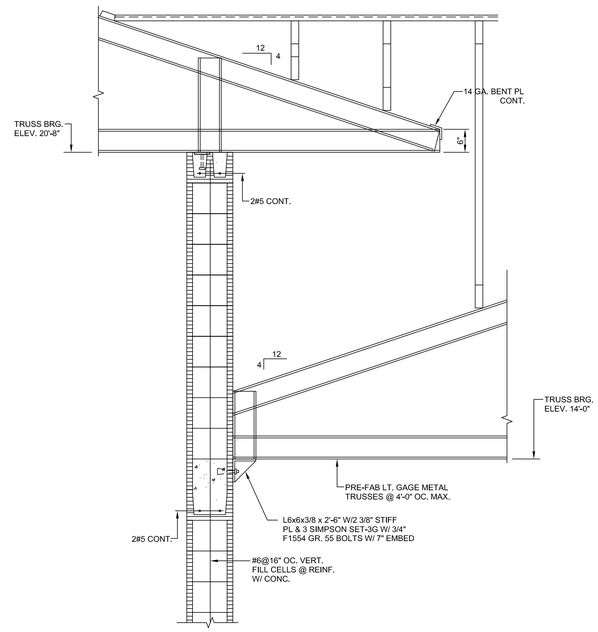

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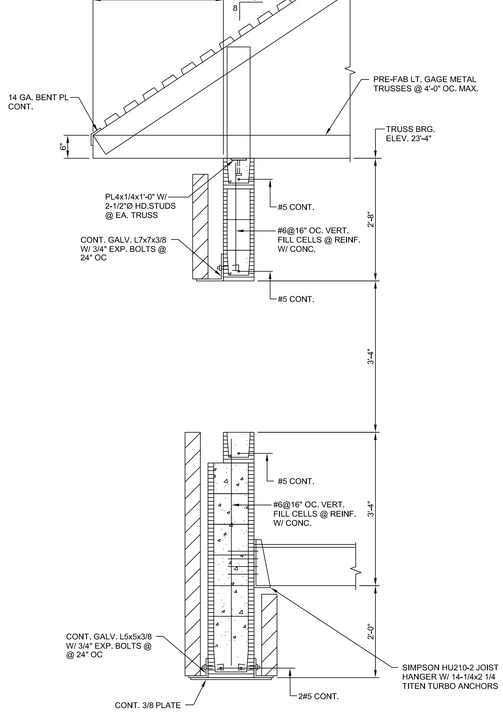

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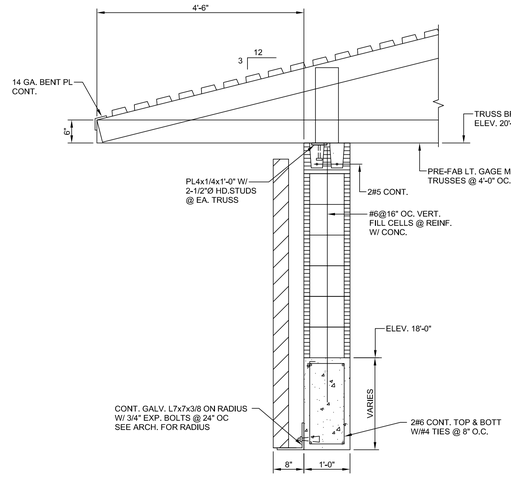

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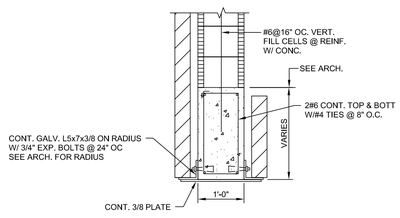

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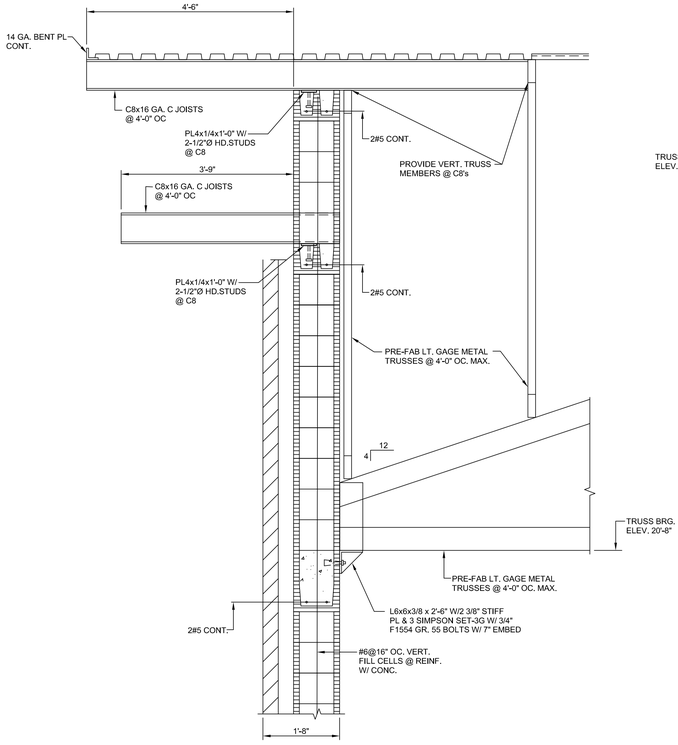

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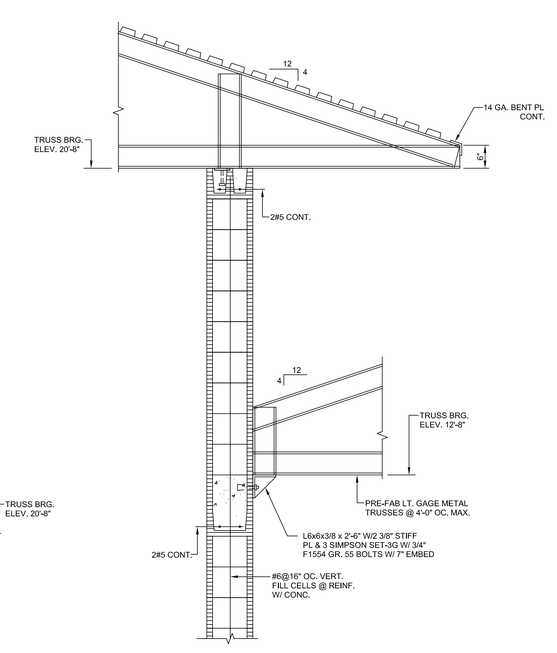

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FIRE STATION #2

MW / Davis Dumas & Associates, Inc.
CONSULTING ENGINEERS
4500 Southlake Park, Suite 200
Hoover, Alabama 35244
Phone: (205) 252-0246
www.mwdda.com
Project # 223150

JAMES S. DAVIS No. 14178 PROFESSIONAL ENGINEER

10/25/2024 223150

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A NEW FACILITY FOR:
Pell City
FIRE STATION # 2
Pell City, AL

HVAC ABBREVIATIONS

A/E	ARCHITECT / ENGINEER
A	AMPERGE
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
AMB.	AMBIENT
AMP	AMPER
ARCH.	ARCHITECTURAL
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BTUH	BRITISH THERMAL UNIT PER HOUR
CFM	CUBIC FEET PER MINUTE
CHP	CHILLED WATER PUMP
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CO	CLEAN OUT
CO2	CARBON DIOXIDE
CP	CONDENSATE PUMP
CV	CONSTANT VOLUME
DB	DRY BULB
DN.	DOWN
°F	DEGREES FAHRENHEIT
△ P	CHANGE IN PRESSURE
△ T	CHANGE IN TEMPERATURE
DIA.	DIAMETER
EA	EXHAUST AIR
EF	EXHAUST FAN
ENT.	ENTERING
EAT	ENTERING AIR TEMPERATURE
EMG	EXPANDED METAL GRILLE
EWT	ENTERING WATER TEMPERATURE
E.S.P.	EXTERNAL STATIC PRESSURE
EX.	EXISTING
EXT.	EXTERNAL
FPM	FEET PER MINUTE
F&T	FLOAT AND THERMOSTATIC
FD	FIRE DAMPER
FSD	COMBINATION FIRE & SMOKE DAMPER
FT.	FEET
F.V.	FACE VELOCITY
GAL.	GALLONS
GPM	GALLONS PER MINUTE
H	HEIGHT
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HWR	HVAC HOT WATER RETURN
HWS	HVAC HOT WATER SUPPLY
HZ	HERTZ
IAQ	INDOOR AIR QUALITY
IN.	INCHES
I.D.	INSIDE DIAMETER
KW	KILOWATT (1000 WATTS)
L	LENGTH
LBS.	POUNDS
LF	LINEAR FOOT
LPS	LOW PRESSURE STEAM
LRA	LOCKED ROTOR AMPS
LVG.	LEAVING
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MAX.	MAXIMUM
MAT	MIXED AIR TEMPERATURE
MBH	1000 BTUH
MCA	MINIMUM CIRCUIT AMPACITY
MERV	MINIMUM EFFICIENCY REPORTING VALUE
MIN.	MINIMUM
MOCP	MAXIMUM OVER CURRENT PROTECTION
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
NC	NOISE CRITERIA
NPLV	NON-STANDARD PART LOAD VALUE
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
OSA	OUTSIDE AIR
O.D.	OUTSIDE DIAMETER
PPM	PARTS PER MILLION
PSI	POUNDS PER SQUARE INCH
PSIA	PSI ATMOSPHERIC
PSIG	PSI GAGE
RA	RETURN AIR
RAT	RETURN AIR TEMPERATURE
RH	RELATIVE HUMIDITY
RLA	RATED LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SAT	SUPPLY AIR TEMPERATURE
SD	SMOKE DETECTOR
SF	SUPPLY FAN
SQ FT	SQUARE FEET
TAB	TEST ADJUST AND BALANCE
T.S.P.	TOTAL STATIC PRESSURE
TD	TRANSFER DUCT (LINED)
TOD	TOP OF DUCT
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
VOL.	VOLUME
V/Φ/Hz	VOLTS/PHASE/HERTZ
W.G.	WATER GAGE
W	WATTS
W	WIDTH
WB	WET BULB
WG	WATER GAUGE

HVAC CONTROLS LEGEND

- AO — ANALOG OUTPUT CONTROLS SIGNAL
- AI — ANALOG INPUT CONTROLS SIGNAL
- DO — DIGITAL OUTPUT CONTROLS SIGNAL
- DI — DIGITAL INPUT CONTROLS SIGNAL
- TS — PIPE MOUNTED TEMPERATURE SENSOR
- TS — DUCT MOUNTED AVERAGING TEMPERATURE SENSOR
- FZ — FREEZESTAT
- TS — DUCT MOUNTED SINGLE POINT TEMPERATURE SENSOR
- HS — DUCT MOUNTED HUMIDITY SENSOR
- SD — DUCT MOUNTED SMOKE DETECTOR. FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR, INSTALLED IN DUCT BY MECHANICAL CONTRACTOR
- VFD — VARIABLE FREQUENCY DRIVE (WITH HOA)
- HOA — COMBINATION MAGNETIC STARTER WITH HAND-OFF-AUTO SWITCH
- TX — TRANSFORMER
- M — FAN OR PUMP MOTOR
- DISCONNECT SWITCH
- CT — CURRENT TRANSDUCER
- FIRE ALARM SYSTEM INTERLOCK
- TWO-WAY AUTO CONTROL VALVE
- THREE-WAY AUTO CONTROL VALVE
- AD — AUTOMATIC DAMPER WITH ELECTRIC ACTUATOR
- FSD — COMBINATION FIRE/SMOKE DAMPER
- SD — SMOKE DAMPER WITH ELECTRIC ACTUATOR
- NORMALLY CLOSED RELAY
- NORMALLY OPEN RELAY
- T — WALL MOUNTED SPACE THERMOSTAT (48"A.F.F. TO CENTERLINE OF DEVICE)
- C — WALL MOUNTED CARBON DIOXIDE SENSOR (48"A.F.F. TO CENTERLINE OF DEVICE)
- C — WALL MOUNTED DIGITAL FAN CONTROLLER (48"A.F.F. TO CENTERLINE OF DEVICE)
- N.C. — NORMALLY CLOSED
- N.O. — NORMALLY OPEN

HVAC LEGEND

- W x H — NEW DUCTWORK – INSIDE DIMENSIONS: WIDTH(IN.) X HEIGHT(IN.)
- W x H — EXISTING DUCTWORK – INSIDE DIMENSIONS: WIDTH(IN.) X HEIGHT(IN.)
- SUPPLY AIR DUCT SECTION.
- RETURN OR EXHAUST AIR DUCT SECTION.
- DUCT TURNING DOWN.
- DUCT TURNING UP.
- RECTANGULAR 90° ELBOW WITH TURNING VANES.
- STANDARD 90° RADIUS ELBOW (LONG RADIUS).
- STANDARD 45° RADIUS ELBOW.
- SUPPLY DIFFUSER IN BOTTOM OF DUCT.
- EXHAUST / RETURN GRILLE IN BOTTOM OF DUCT.
- RISE — RISE IN DUCTWORK, IN DIRECTION OF ARROW.
- DROP — DROP IN DUCTWORK, IN DIRECTION OF ARROW.
- MD — RECTANGULAR BRANCH OFF OF RECTANGULAR DUCT WITH 45° ENTRY TAP.
- MD / MD — VANED ELBOW & AIR SPLIT TYPE DUCT TAKE-OFF
- FLEXIBLE CONNECTION AT EQUIPMENT.
- SINGLE LINE FLEXIBLE DUCT (MAX. LENGTH = 5'-0")
- FD — FIRE DAMPER (RUSKIN DIBD2) (PROVIDE ACCESS DOOR IN DUCT.)
- FSD — COMBINATION FIRE/SMOKE DAMPER (GREENHECK FSD-212) (PROVIDE ACCESS DOOR IN DUCT.)
- MD — MANUAL DAMPER (RECT.-RUSKIN MD35, RND.-RUSKIN MDRS25)
- AD — AUTOMATIC DAMPER (RUSKIN CD50)
- SD — SMOKE DAMPER (RUSKIN SD36)
- DUCT MOUNTED ACCESS DOOR ON BOTTOM OF DUCT.
- BRANCH DUCT CONNECTION FROM ROUND LOW PRESSURE DUCT TO RECTANGULAR LOW PRESSURE DUCT WITH SPIN-IN FITTING WITH MANUAL DAMPER (SEE SPECS).
- LD(X) CFM — PLAQUE FACE 24"X24" LAY-IN CEILING DIFFUSER. X = ROUND NECK SIZE (TITUS OMNI-AA)
- R(X) CFM — CEILING RETURN GRILLE (TITUS 50F)
- SUPPLY AIR FLOW
- RETURN AIR FLOW
- EXHAUST AIR FLOW
- D — DRAIN PIPING, SLOPE TOWARD DRAIN MIN. 1" PER 20 FT.

GENERAL NOTES

1. MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND SUBJECT TO REQUIREMENTS OF ARCHITECTURAL DRAWINGS AND CONDITIONS EXISTING IN THE FIELD. MECHANICAL DRAWINGS INDICATE GENERALLY THE LOCATION OF COMPONENTS AND ARE NOT INTENDED TO SHOW ALL FITTINGS OR ALL DETAILS OF THE WORK TO BE PERFORMED. THE MECHANICAL CONTRACTOR SHALL PROVIDE DETAILED AND DIMENSIONED FABRICATION SHOP DRAWINGS OF ALL WORK TO BE PERFORMED. SEE SPECIFICATIONS FOR REQUIREMENTS.
2. FOLLOW THE DRAWINGS CLOSELY, COORDINATE DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS. DO NOT SCALE MECHANICAL DRAWINGS FOR LOCATIONS OF SYSTEM COMPONENTS.
3. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC., SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.
4. MAKE NO CHANGES WITHOUT THE ARCHITECT'S WRITTEN PERMISSION. IN CASE OF DOUBT, OBTAIN ARCHITECT'S DECISION BEFORE PROCEEDING WITH WORK. FAILURE TO FOLLOW THIS INSTRUCTION SHALL MAKE THE CONTRACTOR LIABLE FOR DAMAGE TO OTHER WORK AND RESPONSIBLE FOR REMOVING AND REPAIRING DEFECTIVE OR MISLOCATED WORK IN PROPER MANNER.
5. DO NOT SCALE DRAWINGS TO LOCATE DIFFUSERS AND EQUIPMENT. COORDINATE WITH NEW AND EXISTING LIGHTING, ELECTRICAL CONDUIT, AND ALL EXISTING FIELD CONDITIONS.
6. PRIOR TO PREPARING SUBMITTALS, VERIFY ALL EQUIPMENT VOLTAGES WITH ELECTRICAL DRAWINGS AND ELECTRICAL CONTRACTOR AND REPORT ANY INCONSISTENCIES TO THE ARCHITECT PRIOR TO ORDERING EQUIPMENT. ANY FAILURE TO DO SO WILL MAKE THE MECHANICAL CONTRACTOR RESPONSIBLE FOR ANY EQUIPMENT ORDERED WITH THE INCORRECT VOLTAGE.
7. PROTECT MECHANICAL EQUIPMENT FROM DAMAGE DURING CONSTRUCTION. WHEN INSTALLATION IS COMPLETE, CLEAN EQUIPMENT AS REQUIRED AND PROVIDE ALL NEW FILTERS.
8. INSTALL ALL EQUIPMENT TO PROVIDE NORMAL SERVICE ACCESS TO ALL COMPONENTS. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. IF MANUFACTURER'S INSTRUCTIONS CONFLICT WITH CONTRACT DOCUMENTS, OBTAIN ARCHITECT'S DECISION BEFORE PROCEEDING.
9. FURNISH ACCESS DOORS FOR VALVES, FIRE DAMPERS, DAMPERS, CONTROLS, AIR VENTS, TRAP CLEAN OUTS, AND OTHER ITEMS LOCATED ABOVE NON-LIFTOUT CEILINGS OR BEHIND PARTITIONS OR WALLS.
10. PROVIDE FIRE DAMPERS IN DUCTWORK, GRILLES, AND REGISTERS WITH FIRE RATING EQUAL TO RATING OF WALL OR CEILING. ALL FIRE DAMPERS MAY OR MAY NOT BE SHOWN ON MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL FIRE RATED WALL AND CEILING LOCATIONS AND RATINGS WITH ARCHITECTURAL DRAWINGS.
11. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES AND STANDARDS (SEE SPECIFICATIONS).
12. WHEN WORKING ON EXISTING DUCTWORK SYSTEMS THE CONTRACTOR SHALL INSTALL TEMPORARY FILTER MEDIA OVER ALL NEW AND EXISTING SUPPLY AIR DIFFUSERS PRIOR TO THE START OF WORK.
13. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIRE STOPPING WALL PENETRATIONS AT FIRE RATED WALLS WHERE DUCTWORK, PIPING OR CONTROLS CONDUITS ARE INSTALLED. FIRE STOPPING SHALL BE PERFORMED IMMEDIATELY AFTER THE WORK IS INSTALLED. DO NOT LEAVE PENETRATIONS UNPROTECTED OVERNIGHT.
14. PRIOR TO SUBMITTING A PROPOSAL THE CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE PROJECT AND ALL PROPERTY RULES, REGULATIONS AND WORKING REQUIREMENTS AND RESTRICTIONS. ANY QUESTIONS OR CLARIFICATIONS SHALL BE SUBMITTED TO THE DESIGN TEAM PRIOR TO SUBMITTING A PROPOSAL.
15. AREA ABOVE CEILINGS IS A RETURN AIR PLENUM. ALL CABLE, WIRING AND MATERIALS LOCATED WITHIN THE CEILING PLENUM SHALL BE PLENUM RATED AND SHALL COMPLY WITH ALL REQUIRED SMOKE DEVELOPED RATINGS IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE.
16. ALL DUCTWORK DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS AND DO NOT INCLUDE THE THICKNESS OF INSULATION. SEE SPECIFICATIONS FOR ALL DUCTWORK PRESSURE CLASS, CONSTRUCTION AND SEALING REQUIREMENTS.
17. ALL SUPPLY, RETURN AND OUTSIDE AIR DUCTWORK SHALL BE INSULATED IN ACCORDANCE WITH THE SPECIFICATIONS AND THE 2021 INTERNATIONAL ENERGY CONSERVATION CODE. ALL DUCTWORK INSULATION SHALL BE SEALED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION RECOMMENDATIONS AND INSTRUCTIONS.
18. CONTRACTOR SHALL PROVIDE COORDINATION SHOP DRAWINGS OF ALL DUCTWORK AND PIPING FOR APPROVAL BY ARCHITECT AND ENGINEER PRIOR TO FABRICATION AND SHALL PROVIDE SUBMITTALS OF ALL EQUIPMENT, GRILLES, DIFFUSERS, DUCTWORK, INSULATION, ETC. FOR APPROVAL PRIOR TO ORDER. SEE SPECIFICATIONS FOR ALL SUBMITTAL AND SHOP DRAWING REQUIREMENTS.
19. MECHANICAL CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR EXACT QUANTITY AND LOCATIONS OF 120V CONTROLS POWER TO NECESSARY CONTROL PANELS.
20. PROVIDE ALL NECESSARY RELAYS, SWITCHES, SENSORS, LOW VOLTAGE CONTROL WIRING, ACTUATORS, ETC. FOR A COMPLETE AND FUNCTIONAL BAS CONTROLS SYSTEM.
21. ALL THERMOSTAT AND SENSOR LOCATIONS SHALL BE CLOSELY COORDINATED WITH THE ARCHITECT AND APPROVED PRIOR TO ANY ROUGH-IN OR INSTALLATION. THERMOSTATS THAT ARE NOT PRE-APPROVED BY THE ARCHITECT WILL BE REQUIRED TO BE RELOCATED AS DIRECTED BY THE ARCHITECT AND SHALL BE THE RESPONSIBILITY OF THE CONTROLS CONTRACTOR AT NOT COST TO THE OWNER OR TENANT. ALL WALL MOUNTED DEVICES SHALL BE INSTALLED 48" A.F.F. TO THE CENTERLINE OF THE DEVICE PER ADA REQUIREMENTS (UNLESS NOTED OTHERWISE OR INSTRUCTED BY ARCHITECT).

AIR DEVICE LEGEND

MARK	DESCRIPTION	(X)	MODEL
LD(X)	PLAQUE FACE 24"X24" LAY-IN CEILING DIFFUSER. ALL ALUMINUM CONSTRUCTION. CFM SHOWN. PROVIDE BACK SIDE OF DIFFUSER WITH MINIMUM R-6 MOLDED INSULATION BLANKET. SEAL ALL EDGES WITH MASTIC.	ROUND NECK SIZE	TITUS OMNI-AA
SD(X)	LOUVER FACE 24"X24" SURFACE MOUNTED CEILING DIFFUSER. 4-WAY THROW UNLESS NOTED OTHERWISE. CFM SHOWN. ALL ALUMINUM CONSTRUCTION. INSULATE BACK SIDE OF DIFFUSER WITH MINIMUM R-6 INSULATION AND SEAL ALL EDGES WITH MASTIC.	SQUARE NECK SIZE NECK SIZE / ROUND RUNOUT 6 X 6 — 6"ø 9 X 9 — 8"ø 12 X 12 — 10"ø 15 X 15 — 12"ø 18 X 18 — 14"ø	TITUS TDC-AA
R(X)	CEILING RETURN GRILLE 1/2" X 1/2" X 1/2" ALUMINUM CORE ALL ALUMINUM CONSTRUCTION. LAY-IN BORDER	SQUARE NECK SIZE	TITUS 50F
E(X)	CEILING EXHAUST GRILLE 1/2" X 1/2" X 1/2" ALUMINUM CORE ALL ALUMINUM CONSTRUCTION. LAY-IN BORDER	SQUARE NECK SIZE	TITUS 50F
T(X)	CEILING TRANSFER GRILLE 1/2" X 1/2" X 1/2" ALUMINUM CORE ALL ALUMINUM CONSTRUCTION. LAY-IN BORDER	SQUARE NECK SIZE	TITUS 50F
SR	SIDE WALL SUPPLY GRILLE. SIZE AND CFM SHOWN ALL ALUMINUM CONSTRUCTION.	--	TITUS 272
WRG	WALL RETURN GRILLE. SIZE AND CFM SHOWN ALL ALUMINUM CONSTRUCTION.	--	TITUS 350
WEG	WALL EXHAUST GRILLE. SIZE AND CFM SHOWN ALL ALUMINUM CONSTRUCTION.	--	TITUS 350
WTG	WALL TRANSFER GRILLE. SIZE AND CFM SHOWN ALL ALUMINUM CONSTRUCTION.	--	TITUS 350
DWTG	DOUBLE WALL TRANSFER GRILLE (GRILLE ON BOTH SIDES OF WALL) SIZE AND CFM SHOWN ALL ALUMINUM CONSTRUCTION.	--	TITUS 350

OUTSIDE AIR CALCULATIONS (AC-01)

OCCUPANCY CATEGORY	PEOPLE (Pz)	AREA (Az)	CFM/P (Rp)	CFM/SF (Ra)	UNCORRECTED OSA
STORAGE	0	224 SF	0	0.06	14 CFM
TOILET	0	64 SF	0	0	0 CFM
DECONTAMINATION ROOM	1	132 SF	5	0.06	13 CFM
PPE ROOM	4	160 SF	5	0.06	21 CFM
EXERCISE ROOM	4	240 SF	5	0.12	50 CFM

TOTAL SUPPLY AIR: (Vpz)	98 CFM
TOTAL UNCORRECTED OSA: (Vou)	98 CFM
ZONE EFFECTIVENESS: (Ez)	1.0
VENTILATION EFFICIENCY: (Ev)	1.0
TOTAL CORRECTED OSA: (Vot)	98 CFM
TOTAL OSA PROVIDED:	275 CFM

NOTES
1. OUTSIDE AIR CALCS. BASED ON ASHRAE STANDARD 62.1-2010 & 2015 IMC, TABLE 403.3.
2. ZONE AIR DISTRIBUTION EFFECTIVENESS (Ez) IS 0.8 FOR CEILING SUPPLY OF WARM AIR 15°F OR MORE ABOVE SPACE TEMPERATURE.

OUTSIDE AIR CALCULATIONS (DOAS-01)

OCCUPANCY CATEGORY	PEOPLE (Pz)	AREA (Az)	CFM/P (Rp)	CFM/SF (Ra)	UNCORRECTED OSA
BUNK #1	1	78 SF	5	0.06	10 CFM
BUNK #2	1	79 SF	5	0.06	10 CFM
BUNK #3	1	78 SF	5	0.06	10 CFM
BUNK #4	1	79 SF	5	0.06	10 CFM
BUNK #5	1	79 SF	5	0.06	10 CFM
BUNK #6	1	79 SF	5	0.06	10 CFM
BUNK #7	1	79 SF	5	0.06	10 CFM
LAUNDRY	0	177 SF	0	0.06	11 CFM
CORRIDOR	0	189 SF	0	0.06	11 CFM
CORRIDOR	0	254 SF	0	0.06	15 CFM
OFFICER'S BUNK	1	160 SF	5	0.06	15 CFM
JANITOR	0	23 SF	0	0	0 CFM
BATHROOM	0	53 SF	0	0	0 CFM
IT/ELEC	0	53 SF	0	0.06	3 CFM
STORAGE	0	21 SF	0	0.06	1 CFM
DAYROOM	6	402 SF	7.5	0.06	69 CFM
DINING	24	426 SF	7.5	0.06	206 CFM
KITCHEN	8	367 SF	7.5	0.12	104 CFM
CORRIDOR	0	461 SF	0	0.06	28 CFM
RESTROOMS	0	388 SF	0	0.06	0 CFM
OFFICE	1	144 SF	5	0.06	12 CFM
TOILET	0	77 SF	0	0	0 CFM
CORRIDOR	0	332 SF	0	0.06	20 CFM
COMPUTER WORKROOM	12	283 SF	5	0.06	77 CFM
VESTIBULE	0	181 SF	0	0.06	11 CFM
CONFERENCE/ TRAINING ROOM	16	647 SF	5	0.06	119 CFM

TOTAL SUPPLY AIR: (Vpz)	772 CFM
TOTAL UNCORRECTED OSA: (Vou)	772 CFM
ZONE EFFECTIVENESS: (Ez)	1.0
VENTILATION EFFICIENCY: (Ev)	1.0
TOTAL CORRECTED OSA: (Vot)	772 CFM
TOTAL OSA PROVIDED:	1,250 CFM

NOTES
1. OUTSIDE AIR CALCS. BASED ON ASHRAE STANDARD 62.1-2010 & 2015 IMC, TABLE 403.3.
2. ZONE AIR DISTRIBUTION EFFECTIVENESS (Ez) IS 0.8 FOR CEILING SUPPLY OF WARM AIR 15°F OR MORE ABOVE SPACE TEMPERATURE.

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REVISIONS

SHEET TITLE
MECHANICAL NOTES & LEGENDS

PROJECT NUMBER
1917

ISSUE DATE
10/31/2024

DRAWN BY
NDH

CHECKED BY
JSD

SHEET NUMBER
M0.01

FIRE STATION #2

PLOT DATE: 10/31/2024, 1:00 PM

ELECTRIC UNIT HEATERS (EUH)

MARK	SERVES	CAPACITY (kW)	ELECT. V/Φ/Hz	ACCESSORIES	DESIGN BASIS
EUH-01	RISER	5	208/1/60	(1)	MARKEL 5100 SERIES

HEATER ACCESSORIES:

(1) LOUVER DIFFUSER, WALL BRACKET, HEATER BRACKET, WALL MOUNTED THERMOSTAT, DISCONNECT SWITCH

HEATER NOTES:

(1) CONTRACTOR TO PROVIDE ALL CONTROL WIRING IN CONDUIT AND CONTROL ACCESSORIES AS REQUIRED FOR CONNECTING WALL MOUNTED THERMOSTAT. SET AT 50°F (ADJUSTABLE).

INFRARED RADIANT HEATERS (NATURAL GAS)

MARK	LOCATION	TYPE	TOTAL TUBE LENGTH (FT.)	GAS INPUT MBH	STAGES	ELECTRICAL V/Φ/Hz	ACCESSORIES	DESIGN BASIS
IRH-1	TRUCK BAY	(A)	10	40	1	120/1/60	(1)(2)(3)	SPACE RAY PTU

HEATER TYPE:

(A) DIRECT SPARK, BLOWER PUSH THROUGH INFRARED RADIANT HEATER (POSITIVE PRESSURE) U-TUBE CONFIGURATION WITH HIGH EFFICIENCY ALUMINUM REFLECTORS

ACCESSORIES:

(1) VENT CAP
(2) COMBUSTION AIR CAP
(3) WALL MOUNTED 7 DAY PROGRAMMABLE DIGITAL THERMOSTAT

SPLIT SYSTEM INDOOR AC UNITS - VRF

MARK	AREA SERVED	TYPE	CONNECTED OUTDOOR UNIT	CFM	MIN. OSA CFM	CAPACITY (MBH) TOTAL COOLING	CAPACITY (MBH) TOTAL HEATING	ELECTRICAL V/Φ/Hz	ELECTRICAL MCA	ELECTRICAL MOCP	ACCESSORIES	ESTIMATED WEIGHT	DESIGN BASIS MODEL
AC-02	IT/ELECTRICAL	(B)	HP-02	400	–	12.0	12.0	208/1/60	POWERED BY OUTDOOR UNIT		(1)(2)	50 LBS.	TRANE TPKA0A0121EA90A
AC-03A	DINING	(C)	HP-03	800	200	24.0	27.0	208/1/60	POWERED BY OUTDOOR UNIT		(1)(2)	70 LBS.	TRANE TPEFYP024MA144A
AC-03B	KITCHEN	(C)	HP-03	600	200	18.0	20.0	208/1/60	POWERED BY OUTDOOR UNIT		(1)(2)	70 LBS.	TRANE TPEFYP018MA145A

AC UNIT TYPES

(A) CEILING MOUNTED CASSETTE
(B) WALL MOUNTED INDOOR UNIT
(C) HORIZONTAL DUCTED

ACCESSORIES

(1) DELUXE MA WIRED WALL MOUNTED CONTROLLER/SENSOR TRANE MODEL TAR-40MAAU
(2) PROVIDE CONDENSATE PUMP WITH MINIMUM 12 FT. OF HEAD PRESSURE CAPABILITY. PROVIDE MOUNTING BRACKET.

NOTES (APPLIES TO ALL UNITS)

1. COOLING CAPACITY CALCULATED BASED ON 95.0°Fdb/78.0°Fwb OUTSIDE AIR.
2. HEATING CAPACITY CALCULATED BASED ON 47°Fdb OUTSIDE AIR.
3. REFRIGERANT: R-410A
4. PROVIDE WALL MOUNTED DELUXE WIRED MA REMOTE SENSOR WITH COMMUNICATION WIRING. PROVIDE LOCKING COVER AS REQUIRED BY OWNER.
5. PROVIDE POWER WIRING FROM OUTDOOR UNIT PER MANUFACTURER'S REQUIREMENTS.
6. PROVIDE AND INSTALL ALL MOUNTING BRACKETS, SUSPENSION BRACKETS, BOLTS, RODS, WASHERS AND NUTS AS REQUIRED FOR COMPLETE INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.
7. INSTALL UNITS WITH ALL MINIMUM REQUIRED AND ALL RECOMMENDED CLEARANCES FOR OPERATION.
8. PROVIDE WI-FI ENABLED, APP-BASED THERMOSTATS AND UNIT CONTROLLERS.
9. WIRE ALL UNITS TO VRF CENTRAL CONTROL PANEL WITH REMOTE OFF-SITE ACCESS CONTROLS.

SPLIT SYSTEM OUTDOOR UNITS - VRF

MARK	CONNECTED INDOOR UNIT	UNIT TYPE	MIN. AHRI SEER	MIN. AHRI COP	TOTAL CAPACITY (MBH) TOTAL COOLING	TOTAL CAPACITY (MBH) TOTAL HEATING	ELECTRICAL INFO V/Φ/Hz	ELECTRICAL INFO MCA	ELECTRICAL INFO MOCP	ESTIMATED WEIGHT	DESIGN BASIS MODEL
HP-02	AC-02	HEAT PUMP	26.9	4.3	12.0	12.0	208/1/60	11	28	100 LBS.	TRANE TRUZA0121K70NA
HP-03	AC-03A AC-03B	HEAT PUMP	19.5	3.6	48.0	54.0	208/1/60	45	80	300 LBS.	TRANE NTXMSM48A182BA

NOTES (APPLIES TO ALL UNITS)

1. COOLING CAPACITY CALCULATED BASED ON 95.0°Fdb/78.0°Fwb OUTSIDE AIR.
2. HEATING CAPACITY CALCULATED BASED ON 47°Fdb OUTSIDE AIR.
3. REFRIGERANT: R-410A
4. PROVIDE POWER CONNECTION AT OUTDOOR UNIT. PROVIDE WIRING AS REQUIRED FOR INDOOR UNITS POWERED BY OUTDOOR UNIT.
5. PROVIDE CONDENSER HAIL GUARD & WIND BAFFLE.
6. PROVIDE LOW AMBIENT CONTROLS TO 0°F.
7. SHALL COMPLY WITH 2021 INTERNATIONAL ENERGY CONSERVATION CODE AND ASHRAE 90.1.
8. INSTALL UNITS WITH ALL MINIMUM REQUIRED AND ALL RECOMMENDED CLEARANCES FOR OPERATION.
9. PROVIDE AND INSTALL ALL COMMUNICATION WIRING BETWEEN INDOOR UNIT, OUTDOOR UNIT AND WALL MOUNTED CONTROLLER AS REQUIRED. ALL WIRING SHALL BE AS REQUIRED AND RECOMMENDED BY THE UNIT MANUFACTURER. ALL WIRING SHALL BE PLENUM RATED.
10. PROVIDE WI-FI ENABLED, APP-BASED THERMOSTATS AND UNIT CONTROLLERS.
11. WIRE ALL UNITS TO VRF CENTRAL CONTROL PANEL WITH REMOTE OFF-SITE ACCESS CONTROLS.

SPLIT SYSTEM - HEAT PUMP OUTDOOR UNIT

MARK	SERVES	TYPE	ELECT. (V/Φ/Hz)	NOMINAL TONS	MCA (AMPS)	MOCP (AMPS)	MIN. SEER	BASIS OF DESIGN TRANE
HP-01	AC-01	HEAT PUMP	208/3/60	4	18	30	14.5	4TWA408A3

OUTDOOR UNIT GENERAL NOTES

1. CONTRACTOR TO COORDINATE/VERIFY ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER AND FIELD CONDITIONS PRIOR TO ORDERING.
2. REFRIGERANT: R-410A
3. UL LISTED AND AHRI STANDARD 430 CERTIFIED.
4. PROVIDE 1 YEAR PARTS WARRANTY AND PROVIDE FACTORY STARTUP. PROVIDE 5 YEAR COMPRESSOR WARRANTY. PROVIDE SEPARATE LINE ITEM PRICE FOR FULL UNIT 5 YEAR PARTS & LABOR WARRANTY. PROVIDE SEPARATE LINE ITEM PRICE FOR 6 MONTH DELAYED STARTUP WARRANTY.

ACCESSORIES – ALL UNITS

1. PHASE PROTECTION
2. MICROPROCESSOR CONTROLS
3. ISOLATION VALVES
4. LIQUID LINE REFRIGERANT DRIER
5. ANTI-SHORT CYCLE TIMER
6. CRANKCASE HEATERS
7. HIGH/LOW PRESSURE CONTROL
8. LOW AMBIENT COOLING TO 0°F
9. FROSTSTAT
10. THERMAL EXPANSION VALVE
11. HAIL/VANDAL GUARDS
12. VIBRATION ISOLATORS
13. SIGHT GLASS WITH MOISTURE INDICATOR

SPLIT SYSTEM - AIR HANDLING UNIT

MARK	SERVES	UNIT CONFIGURATION	SUPPLY FAN CFM	SUPPLY FAN "W.G. E.S.P	SUPPLY FAN HP	NET COOLING CAPACITY TOTAL (MBH)	NET COOLING CAPACITY SENSIBLE (MBH)	NET COOLING CAPACITY AIR ENT. *FDB	NET COOLING CAPACITY AIR ENT. *FWB	HEAT CAP. SENSIBLE (MBH)	AUX. ELECT. HEAT kW	AUX. ELECT. HEAT STAGES	MINIMUM OSA CFM	UNIT POWER ELECT. (V/Φ/Hz)	UNIT POWER MCA (AMPS)	UNIT POWER MOCP (AMPS)	ELECTRIC HEAT POWER ELECT. (V/Φ/Hz)	ELECTRIC HEAT POWER MCA (AMPS)	ELECTRIC HEAT POWER MOCP (AMPS)	NOMINAL TONS	BASIS OF DESIGN TRANE
AC-01	EXERCISE	VERTICAL	1,600	0.5	3/4	48.0	34.6	80	67	36.8	10.8/14.4	1	240	208-230/3/60	9	15	208-230/3/60	45/51	45/60	4	TPVFYP048

AIR HANDLING UNIT GENERAL NOTES

1. COOLING CAPACITY BASED ON 95°F AMBIENT.
2. HEATING CAPACITY BASED ON 47°F AMBIENT.
3. CONTRACTOR TO COORDINATE/VERIFY ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER AND FIELD CONDITIONS PRIOR TO ORDERING.
4. UL LISTED AND AHRI STANDARD 430 CERTIFIED.
5. MAX FACE VELOCITY = 500 FPM.
6. PROVIDE UL LISTED SMOKE DETECTORS IN SUPPLY & RETURN FOR ALL UNITS OVER 2,000 CFM
7. PROVIDE 1 YEAR PARTS WARRANTY AND PROVIDE FACTORY STARTUP. PROVIDE SEPARATE LINE ITEM PRICE FOR FULL UNIT 5 YEAR PARTS & LABOR WARRANTY. PROVIDE SEPARATE LINE ITEM PRICE FOR 6 MONTH DELAYED STARTUP WARRANTY.
8. PROVIDE ONE (1) FULL SET OF FILTERS WITH EACH AHU. PROVIDE ONE (1) FULL FILTER CHANGE OUT AT THE END OF CONSTRUCTION AND STARTUP AND PROVIDE ONE (1) FULL SET OF ADDITIONAL FILTERS TO BE TURNED OVER TO OWNER AT PROJECT COMPLETION. THREE (3) FULL SETS OF FILTERS REQUIRED.

ACCESSORIES – ALL UNITS

1. PHASE PROTECTION
2. MICROPROCESSOR CONTROLS
3. INTERNALLY ISOLATED FAN
4. 2" THICK THROWAWAY FILTERS, 30% EFFICIENT
5. AUXILIARY DRAIN PAN WITH FLOAT SWITCH.

FANS

MARK	SERVES	TYPE	CFM	"W.G.S.P. EXT. SP	DIAMETER	MOTOR HP	MOTOR V/Φ/Hz	ACCESSORIES	INTERLOCK W/	DESIGN BASIS
EF-01	RESTROOM	(A)	75	0.3	–	0.10	115/1/60	(1)	LIGHT SWITCH/OCC. SENSOR	GREENHECK SP
EF-02	RESTROOM	(D)	225	0.5	–	0.10	115/1/60	(1)	TIME CLOCK	GREENHECK SQ
EF-03	RESTROOM	(D)	300	0.5	–	0.10	115/1/60	(1)	TIME CLOCK	GREENHECK SQ
EF-04	RESTROOM	(A)	75	0.3	–	0.10	115/1/60	(1)	LIGHT SWITCH/OCC. SENSOR	GREENHECK SP
EF-05	DECON	(D)	200	0.5	–	0.10	115/1/60	(1)	LIGHT SWITCH/OCC. SENSOR	GREENHECK SQ
EF-06	ELECTRICAL	(C)	850	0.25	–	0.25	115/1/60	(3)	THERMOSTAT	GREENHECK AER
EF-07	CHARGING	(E)	100	0.3	–	0.02	115/1/60	(5)	THERMOSTAT	GREENHECK G-060-D
CF-01	TRUCK BAY	(B)	–	–	12'	0.75	208/1/60	(2)	WALL MOUNTED CONTROLLER	GREENHECK DS-6
CF-02	TRUCK BAY	(B)	–	–	12'	0.75	208/1/60	(2)	WALL MOUNTED CONTROLLER	GREENHECK DS-6
CF-03	DAY ROOM	(B)	–	–	5'	0.10	208/1/60	(2)	WALL MOUNTED CONTROLLER	GREENHECK DC-5
CF-04	DAY ROOM	(B)	–	–	5	0.10	208/1/60	(2)	WALL MOUNTED CONTROLLER	GREENHECK DC-5
CF-05	PATIO	(B)	–	–	8'	0.25	208/1/60	(2)	WALL MOUNTED CONTROLLER	GREENHECK DC-5
CF-06	PATIO	(B)	–	–	8'	0.25	208/1/60	(2)	WALL MOUNTED CONTROLLER	GREENHECK DC-5
VF-01	TRUCK BAY	(C)	5400	0.4	27.375"	1.00	460/3/60	(3)	WALL MOUNTED STARTER	GREENHECK AER
ESF-01	STORM SHELTER	(D)	605	0.5	–	0.17	115/1/60	(4)	WALL MOUNTED FAN SPEED CONTROLLER	GREENHECK SQ
EEF-01	STORM SHELTER	(D)	550	0.5	–	0.17	115/1/60	(4)	WALL MOUNTED FAN SPEED CONTROLLER	GREENHECK SQ

FAN TYPES:

(A) CENTRIFUGAL CEILING EXHAUST FAN
(B) HIGH VELOCITY, LOW SPEED CEILING FAN
(C) WALL PROPELLER FAN, DIRECT DRIVE
(D) IN-LINE CENTRIFUGAL FAN, DIRECT DRIVE
(E) DOWNBLAST CENTRIFUGAL FAN, DIRECT DRIVE

FAN NOTES/ACCESSORIES:

(1) REMOVABLE WHITE ALUMINUM CEILING GRILLE, BACKDRAFT DAMPER, INSULATED HOUSING, EC VARIABLE SPEED MOTOR WITH BUILT-IN ELECTRONIC OVERLOAD PROTECTION, RUBBER-IN-SHEAR ISOLATORS, INTEGRAL STARTER, ALUMINUM WALL CAP, DISCONNECT SWITCH.
(2) EIGHT AIRFOIL BLADES WITH WINGLETS, FULLY SEALED NITROSEAL DRIVE GEARBOX, ONBOARD VFD, UPPER FAN MOUNTING KIT TO STRUCTURAL STEEL/JOIST AS REQUIRED, SAFETY CABLE SYSTEM, WALL MOUNTED TOUCHSCREEN INTERFACE CONTROLLER WITH ON/OFF AND VARIABLE SPEED CONTROLS.
(3) NEMA 3 DISCONNECT SWITCH, GALVANIZED GRAVITY DISCHARGE SHUTTER WITH GUARD, WALL COLLAR, HINGED MOTOR SIDE WIREGUARD, MIN. 18 GA. GALVANIZED WEATHER HOOD WITH 1/2" MESH BIRD SCREEN.
(4) FLEXIBLE CONNECTORS, SPRING ISOLATORS, DISCONNECT SWITCH, AND BACKDRAFT DAMPER. EC VARIABLE SPEED MOTOR WITH BUILT-IN ELECTRONIC OVERLOAD PROTECTION, INLET SAFETY SCREEN. PROVIDE WALL MOUNTED FAN SPEED CONTROLLER, FACTORY CONTROL TRANSFORMER FOR INTAKE DAMPER CONTROL.
(5) ALUMINUM BIRDSCREEN, DISCONNECT SWITCH, BACKDRAFT DAMPER WITH DAMPER TRAY, INSULATED GALVANIZED ROOF CURB (MINIMUM 8" ABOVE ROOF INSULATION), EC VARIABLE SPEED MOTOR WITH BUILT-IN ELECTRONIC OVERLOAD PROTECTION

INDOOR HEAT PUMP AC UNITS - VRF SYSTEM

MARK	AREA SERVED	TYPE	CONNECTED OUTDOOR UNIT	CFM	MIN. OSA CFM	CAPACITY (MBH) TOTAL COOLING	CAPACITY (MBH) TOTAL HEATING	ELECTRICAL V/Φ/Hz	ELECTRICAL MCA	ELECTRICAL MOCP	ACCESSORIES	ESTIMATED WEIGHT	DESIGN BASIS MODEL
AC-04	BUNKS	(B)	HRU-01	475	50	24.0	27.0	208/1/60	2.9	15	(1)(2)(3)(4)	70 LBS.	TRANE TPEFYP024MA144A
AC-05	BUNKS	(B)	HRU-01	875	50	24.0	27.0	208/1/60	2.9	15	(1)(2)(3)(4)	70 LBS.	TRANE TPEFYP024MA144A
AC-06	OFFICER/LAUNDRY	(B)	HRU-01	400	100	24.0	27.0	208/1/60	2.9	15	(1)(2)(3)(4)	70 LBS.	TRANE TPEFYP024MA144A
AC-07	CORRIDOR/TOILET	(B)	HRU-02	300	300	12.0	13.5	208/1/60	2.2	15	(1)(2)(3)(4)	50 LBS.	TRANE TPEFYP012MA144A
AC-08	CORRIDOR/OFFICE	(B)	HRU-02	700	50	24.0	27.0	208/1/60	2.9	15	(1)(2)(3)(4)	70 LBS.	TRANE TPEFYP018MA144A
AC-09	COMPUTER	(B)	HRU-02	800	100	36.0	40.0	208/1/60	4.3	15	(1)(2)(3)(4)	70 LBS.	TRANE TPEFYP036MA144A
AC-10	CONFERENCE	(B)	HRU-02	800	120	24.0	27.0	208/1/60	2.9	15	(1)(2)(3)(4)	70 LBS.	TRANE TPEFYP024MA144A

AC UNIT TYPES

(A) CEILING MOUNTED CASSETTE (4-WAY)
(B) CEILING CONCEALED DUCTED (MEDIUM STATIC PRESSURE)
(C) CEILING CONCEALED DUCTED (LOW PROFILE)
(D) CEILING SUSPENDED
(E) MULTI-POSTION AHU
(F) WALL MOUNTED

ACCESSORIES

(1) WIRED WALL MOUNTED CONTROLLER/SENSOR
(2) FULL PORT BALL VALVES & SCHRADER VALVES
(3) CONDENSATE PUMP
(4) MERV 13 FILTER BOX. PROVIDE 2 SETS OF FILTERS PER UNIT

NOTES (APPLIES TO ALL UNITS)

1. COOLING CAPACITY CALCULATED BASED ON 95.0°Fdb/78.0°Fwb OUTSIDE AIR.
2. HEATING CAPACITY CALCULATED BASED ON 47°Fdb OUTSIDE AIR.
3. REFRIGERANT: R-410A
4. PROVIDE WALL MOUNTED DELUXE WIRED MA REMOTE SENSOR WITH COMMUNICATION WIRING.
5. PROVIDE POWER CONNECTION AT EACH INDOOR UNIT.
6. PROVIDE INTERNAL FACTORY BUILT-IN CONDENSATE LIFT MECHANISM.
7. ALL UNITS SHALL FULLY INTEGRATE TO CENTRAL CONTROLLER AND BUILDING DDC CONTROLS SYSTEM.
8. PROVIDE AND INSTALL ALL MOUNTING BRACKETS, SUSPENSION BRACKETS, BOLTS, RODS, WASHERS AND NUTS AS REQUIRED FOR COMPLETE INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.
9. INSTALL UNITS WITH ALL MINIMUM REQUIRED AND ALL RECOMMENDED CLEARANCES FOR OPERATION.
10. PROVIDE GLOBAL PLASMA SOLUTIONS AIR PURIFICATION SYSTEM MOUNTED WITHIN ALL UNITS AS SPECIFIED AND REQUIRED. INSTALL/WIRE TO INDOOR UNIT AS RECOMMENDED/REQUIRED. PHENOMENAL AIR, O2 PRIME AND PLASMA AIR ARE ACCEPTABLE EQUIVALENTS.
11. DUCT MOUNTED SUPPLY AND RETURN SMOKE DETECTORS SHALL BE PROVIDED IN ALL UNITS GREATER THAN 2,000 CFM. SMOKE DETECTORS SHALL BE PROVIDED AND WIRED BY ELECTRICAL AND SHALL BE INSTALLED IN DUCTWORK BY MECHANICAL.
12. WIRE ALL UNITS TO VRF CENTRAL CONTROL PANEL WITH REMOTE OFF-SITE ACCESS CONTROLS.

OUTDOOR HEAT PUMP UNITS - HEAT RECOVERY VRF SYSTEM

MARK	UNIT TYPE	MIN. AHRI EER	MIN. AHRI IEER	MIN. AHRI COP	TOTAL CAPACITY (MBH) TOTAL COOLING	TOTAL CAPACITY (MBH) TOTAL HEATING	# MODULES	MODULE #1 ELECT. V/Φ/Hz	MODULE #1 ELECT. MCA	MODULE #1 ELECT. MOCP	DESIGN BASIS MODEL
HRU-01	HEAT RECOVERY	12	22.8	4.1	72.0	80.0	1	208/3/60	33	50	TRANE TURYE0723AN40AN
HRU-02	HEAT RECOVERY	11.9	23.4	4.1	96.0	108.0	1	208/3/60	44	70	TRANE TURYE0963AN40AN

NOTES (APPLIES TO ALL UNITS)

1. COOLING CAPACITY CALCULATED BASED ON 95.0°Fdb/78.0°Fwb OUTSIDE AIR.
2. HEATING CAPACITY CALCULATED BASED ON 47°Fdb OUTSIDE AIR.
3. REFRIGERANT: R-410A
4. PROVIDE TWINNING KIT AS REQUIRED.
5. PROVIDE POWER CONNECTION AT EACH OUTDOOR UNIT.
6. PROVIDE CONDENSER HAIL GUARD.
7. PROVIDE LOW AMBIENT CONTROLS TO 0°F.
8. SYSTEM SHALL INCLUDE ONE BUILDING MASTER CONTROLLER. PROVIDE AND INSTALL TE-200A AND AE-50 WITH BACNET GATEWAY FOR FULL INTEGRATION WITH BUILDING AUTOMATION SYSTEM AND REMOTE INTERNET ACCESS CONTROL. PROVIDE LICENSES AS REQUIRED.
9. ALL UNITS SHALL FULLY INTEGRATE TO CENTRAL CONTROLLER AND BUILDING DDC CONTROLS SYSTEM.
10. ALL UNIT ADDRESSES SHALL BE LABELED AND MARKED AND IDENTIFIED WITH ROOM NAMES/NUMBERS.
11. SHALL COMPLY WITH 2021 INTERNATIONAL ENERGY CONSERVATION CODE AND ASHRAE 90.1.
12. INSTALL UNITS WITH ALL MINIMUM REQUIRED AND ALL RECOMMENDED CLEARANCES FOR OPERATION.

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REVISIONS

SHEET TITLE
MECHANICAL SCHEDULES

PROJECT NUMBER
1917

ISSUE DATE
10/31/2024

DRAWN BY
NDH

CHECKED BY
JSD

SHEET NUMBER
M0.02

FIRE STATION #2

PLOT DATE: 10/31/2024 1:00 PM

MW / Davis Dumas & Associates, Inc.
CONSULTING ENGINEERS
4500 Southlake Park, Suite 200
Hoover, Alabama 35244
Phone: (205) 252-0246
www.mwdda.com
Project # 223150

JAMES S. DAVIS No. 14178 PROFESSIONAL ENGINEER

10/25/2024 223150

BID/PERMIT/CONSTRUCTION DOCUMENTS

A NEW FACILITY FOR:
Pell City
FIRE STATION # 2
Pell City, AL

GAS-FIRED UNIT HEATERS (NATURAL GAS)

MARK	MANUFACTURER	MODEL	AIR FLOW (CFM)	VENT SIZE (IN)	HEATER			ELECTRICAL			APPROX. WEIGHT (LBS)	ACCESSORIES
					FUEL	INPUT (BTU/HR)	OUTPUT (BTU/HR)	V/Ø/Hz	MOTOR HP	FLA		
UH-1	REZNOR	UDX030	456	4	NATURAL GAS	30,000	24,600	120/1/60	0.6	2	50	①②③④⑤
UH-2	REZNOR	UDX030	456	4	NATURAL GAS	30,000	24,600	120/1/60	0.6	2	50	①②③④⑤

ACCESSORIES:
① ELECTRICAL IGNITION; CONNECT UNIT TO BACKUP EMERGENCY GENERATOR
② COMBUSTION AIR/VENT KIT
③ HANGER KIT
④ WALL-MOUNTED THERMOSTAT
⑤ MANUAL SHUTOFF VALVES

LOUVER SCHEDULE - STORM SHELTER

MARK	MOUNT	SIZE	AREA SERVED	MIN. FREE AREA	MINIMUM PRESSURE DROP IN W.G.	CFM	DESIGN BASIS
IL	SIDEWALL	24X18	STORM SHELTER	25%	0.20	605	RUSKIN XP500WD
EL	SIDEWALL	24X18	STORM SHELTER	25%	0.20	550	RUSKIN XP500WD

NOTES:
LOUVER SHALL COMPLY WITH ICC500, FEMA 320, & FEMA 361 STANDARDS.

SPLIT SYSTEM 100% OUTSIDE AIR CONDENSING UNIT

MARK	SERVES	TYPE	ELECT. (V/Ø/Hz)	NOMINAL TONS	MCA (AMPS)	MOCP (AMPS)	BASIS OF DESIGN TRANE
DOAS-CU	DOAS-01	CONDENSING UNIT	208/3/60	10	42	50	TTA120K3DAA

OUTDOOR UNIT GENERAL NOTES
1. CONTRACTOR TO COORDINATE/VERIFY ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER AND FIELD CONDITIONS PRIOR TO ORDERING.
2. REFRIGERANT: R-454B
3. UL LISTED AND AHRI STANDARD 430 CERTIFIED.
4. PROVIDE 1 YEAR PARTS WARRANTY AND PROVIDE FACTORY STARTUP. PROVIDE 5 YEAR COMPRESSOR WARRANTY. PROVIDE SEPARATE LINE ITEM PRICE FOR FULL UNIT 5 YEAR PARTS & LABOR WARRANTY. PROVIDE SEPARATE LINE ITEM PRICE FOR 6 MONTH DELAYED STARTUP WARRANTY.

ACCESSORIES - ALL UNITS
1. PHASE PROTECTION
2. MICROPROCESSOR CONTROLS
3. ISOLATION VALVES
4. LIQUID LINE REFRIGERANT DRIER
5. ANTI-SHORT CYCLE TIMER
6. CRANKCASE HEATERS
7. HIGH/LOW PRESSURE CONTROL
8. LOW AMBIENT COOLING TO 0°F
9. FROSTSTAT
10. THERMAL EXPANSION VALVE
11. HAIL/VANDAL GUARDS
12. VIBRATION ISOLATORS
13. SIGHT GLASS WITH MOISTURE INDICATOR

SPLIT SYSTEM 100% OUTSIDE AIR INDOOR UNIT

MARK	SUPPLY FAN				DX COOLING COIL							ELECT. HEAT				UNIT ELECTRICAL			ESTIMATED WEIGHT	DESIGN BASIS
	CFM	W.G. EXT. S.P.	W.G. TOT. S.P.	MOTOR HP	CFM	SENSIBLE (MBH)	TOTAL (MBH)	AIR ENT. °FDB	AIR ENT. °FWB	AIR LVG. °FDB	AIR LVG. °FWB	AIR ENT. °FDB	OUTPUT kW	V/Ø/Hz	AMPS	V/Ø/Hz	MCA	MOP		
DOAS-01	1,250	1.5	2.0	1	1,250	57.1	111.6	95	78	53.3	52.2	20	25	208/3/60	69.4	208/3/60	5.8	15	350 LBS	TRANE BCVE060

FILTER TYPES
Ⓐ ALUMINUM MESH FILTERS & 2" MERV 13 FILTERS
PROVIDE 3 TOTAL SETS OF FILTERS PER UNIT.

ACCESSORIES:
① DIRECT DRIVE FAN MOTOR(S) WITH AIRFOIL PLENUM FAN(S)
② HINGED ACCESS DOORS FOR ALL ACCESSIBLE SECTIONS
③ ULTRA LOW LEAKAGE OUTSIDE AIR DAMPER WITH END SWITCH
④ MODULATING HOT GAS REHEAT
⑤ FACTORY PROVIDED VFD, CONTROLS AND SPACE SENSORS WITH CONTROLS INTERFACE TO VRF SYSTEM CENTRAL CONTROL PANEL AND DISPLAY.
⑥ DIGITAL SCROLL COMPRESSORS
⑦ DIRECT DRIVE VARIABLE SPEED LOW-NOISE CORROSION RESISTANT PROPELLER CONDENSER FANS
⑧ CONDENSER COIL HAIL GUARDS
⑨ VIBRATION ISOLATION INSULATED ROOF CURB - CURB SHALL BE MINIMUM 12" TALLER THAN ROOF INSULATION.
⑩ PROVIDE FACTORY INSTALLED THROUGH THE BASE ELECTRICAL CONNECTION WITH DISCONNECT.
⑪ FACTORY MOUNTED DISCONNECT SWITCH, PHASE AND BROWN OUT PROTECTION.
⑫ CONDENSATE OVERFLOW SWITCH
⑬ DIRTY FILTER SENSOR

UNIT NOTES
1. UL LISTED.
2. MAXIMUM COOLING COIL AIR PRESSURE DROP = 0.25" W.G.
3. MAXIMUM HEATING COIL AIR PRESSURE DROP = 0.10" W.G.
4. ALL UNIT SECTIONS TO HAVE ACCESS DOORS.
5. COOLING COIL CAPACITY CALCULATED BASED ON 95.0°Fdb/78.0°Fwb OUTSIDE AIR.
6. MAXIMUM 10 FINS/INCH AND MINIMUM 8 FINS/INCH FOR COOLING COILS. INCREASE ROWS TO AVOID EXCEEDING 10 FINS/INCH. MAXIMUM COIL VELOCITY = 450 FPM.
7. GALVANIZED STEEL HOUSING, DOUBLE WALL CASING WITH 2" R13 FOAM INSULATION.
8. PROVIDE 1 YEAR PARTS AND LABOR WARRANTY. PROVIDE 5 YEAR COMPRESSOR PARTS WARRANTY.
9. UNIT SHALL BE UL LISTED AND AHRI 430 CERTIFIED.
10. DUCT MOUNTED SUPPLY AND RETURN SMOKE DETECTORS SHALL BE PROVIDED AND WIRED BY ELECTRICAL AND SHALL BE INSTALLED IN DUCTWORK BY MECHANICAL.
11. DOAS UNIT OPERATION AND CONTROLS SHALL FULLY INTERFACE WITH VRF SYSTEM CONTROLLER.

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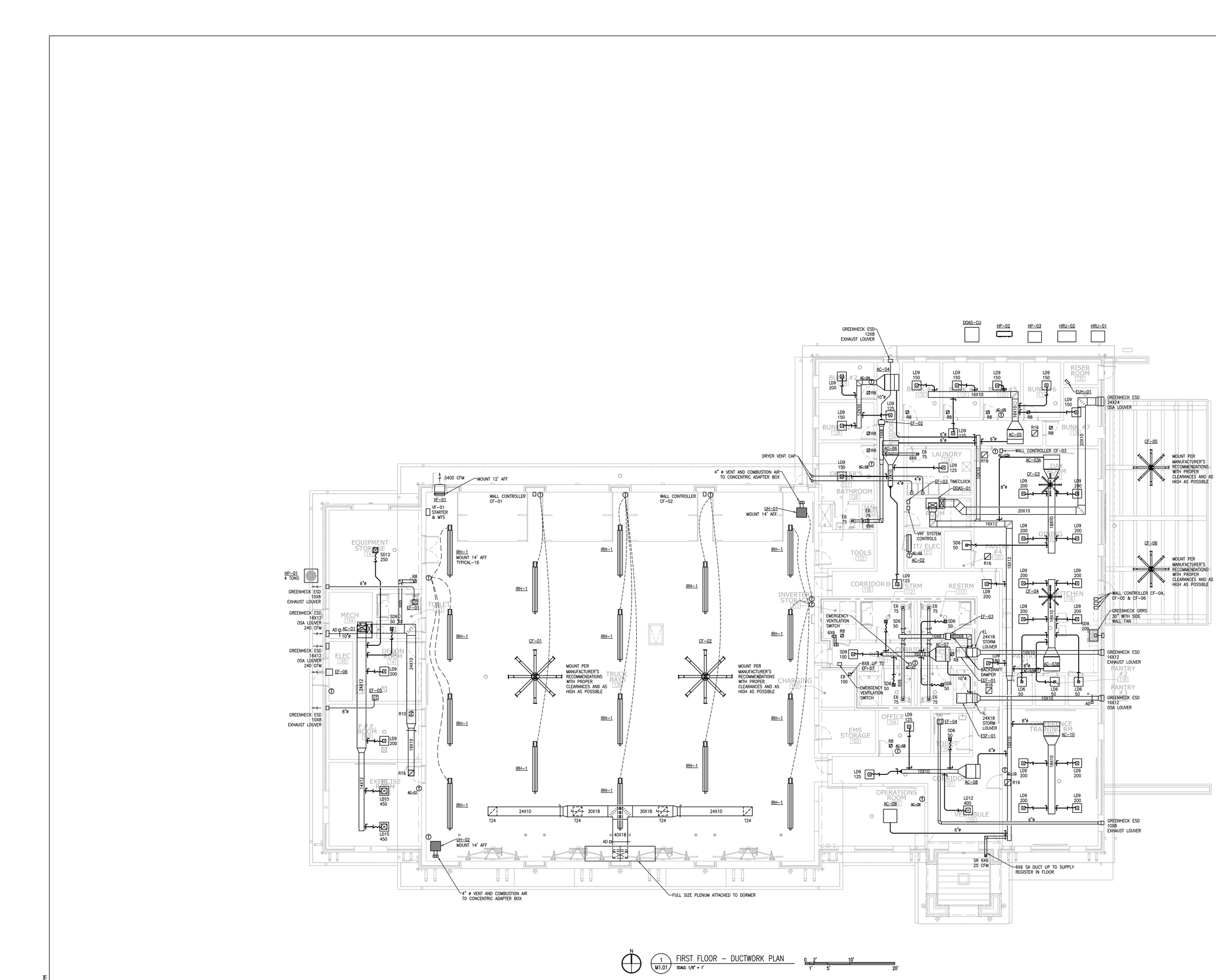
Project # 223150



1 M1.01 FIRST FLOOR – DUCTWORK PLAN
SCALE: 1/8" = 1'

0 2' 10'
1' 5' 20'

PLOT DATE: 10/31/2024, 1:00 PM

JAMES S. DAVIS No. 14178 PROFESSIONAL ENGINEER
10/25/2024 223150

BID/PERMIT/CONSTRUCTION DOCUMENTS

A NEW FACILITY FOR:
Pell City
FIRE STATION #2
Pell City, AL

CMH ARCHITECTS
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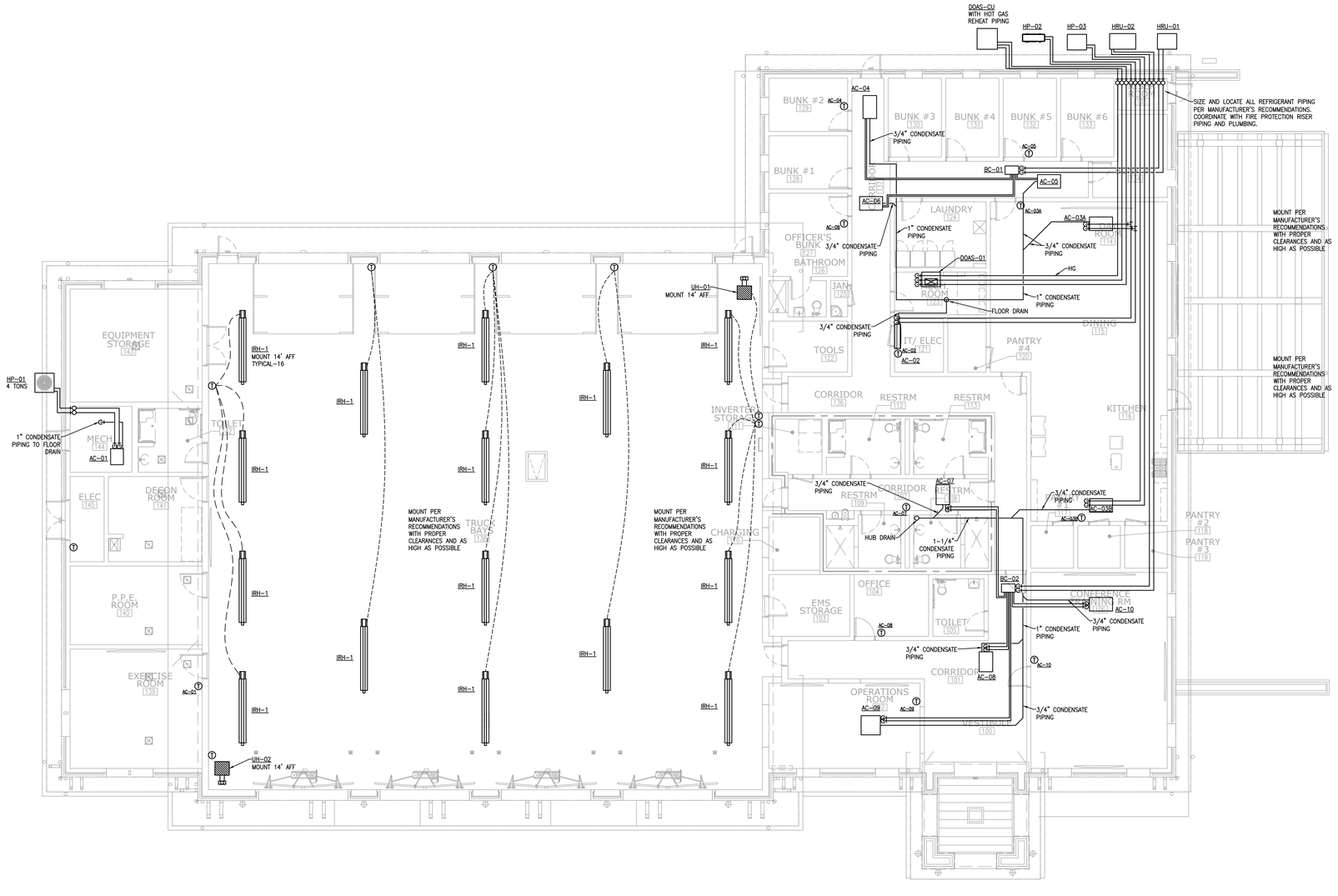

N

1 / M1.02 FIRST FLOOR – MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'

0 2' 10'
1" 5" 20'

BID/PERMIT/CONSTRUCTION DOCUMENTS

A NEW FACILITY FOR:
Pell City
FIRE STATION #2
Pell City, AL

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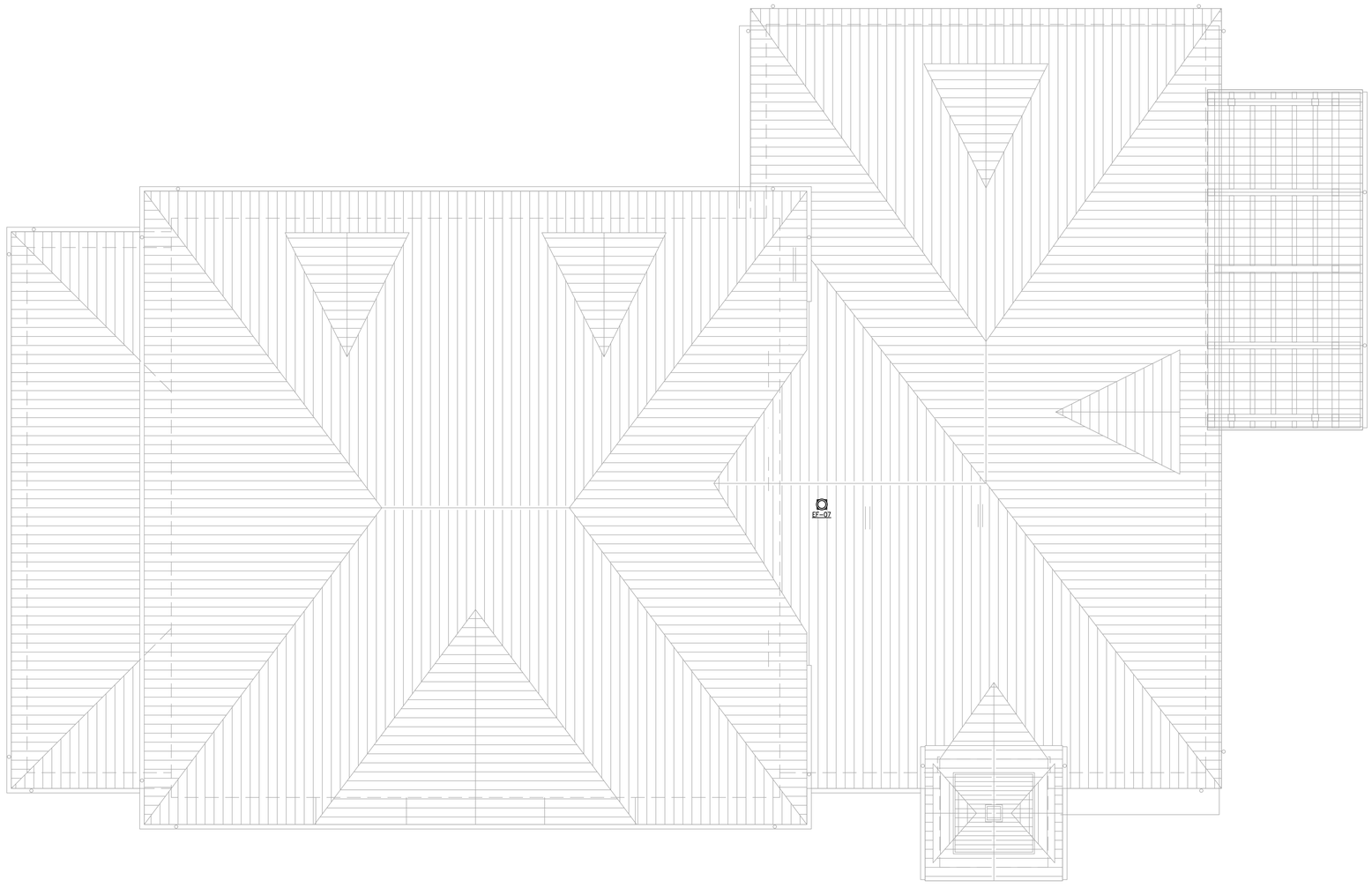

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1 M1.03 ROOF – DUCTWORK PLAN
SCALE: 1/8" = 1'

0 2' 10'
1" 5" 20'

PLOT DATE: 10/31/2024 1:00 PM

ALABAMA No. 14178 PROFESSIONAL ENGINEER JAMES S. DAVIS, JR.

10/25/2024 223150

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Pell City, AL

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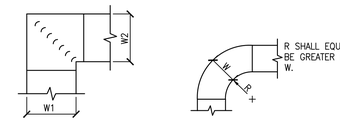


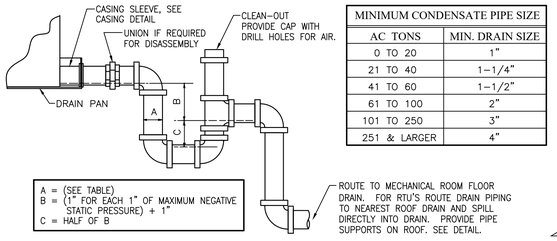
MITERED 90DEG ELBOW WITH TURNING VANES

STANDARD RADIUS OR LONG RADIUS ELBOW (NO TURNING VANES)

NOTE:

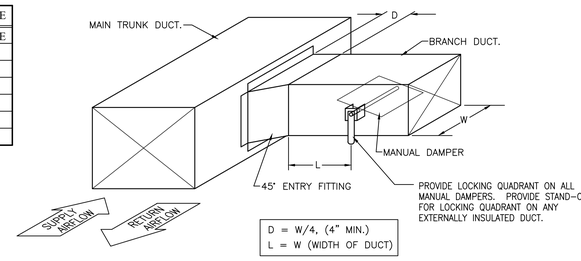
1. ALL VANE ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA. NO PUSH-ON VANE RUNNERS ALLOWED.
2. BOTH LEGS OF ELBOW EQUAL SIZE. PROVIDE ELBOWS UPSTREAM AND DOWNSTREAM AS REQUIRED TO MAINTAIN SAME SIZE LEGS.
3. ALL SINGLE THICKNESS VANES SHALL HAVE A 2" RADIUS, 1 1/2" MAXIMUM SPACE BETWEEN VANES AND A 3/4" TRAILING EDGE.
4. PROVIDE RADIUSED ELBOWS WHERE SPACE ALLOWS.

1 DUCTWORK ELBOW DETAIL
NOT TO SCALE

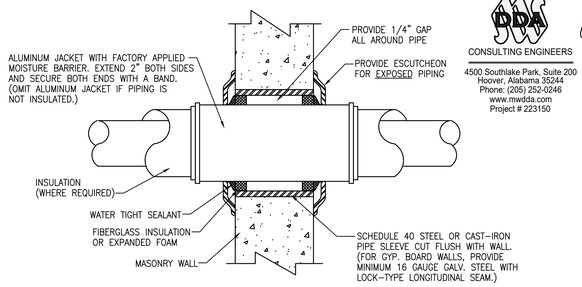


MINIMUM CONDENSATE PIPE SIZE	
AC TONS	MIN. DRAIN SIZE
0 TO 20	1"
21 TO 40	1-1/4"
41 TO 60	1-1/2"
61 TO 100	2"
101 TO 250	3"
251 & LARGER	4"

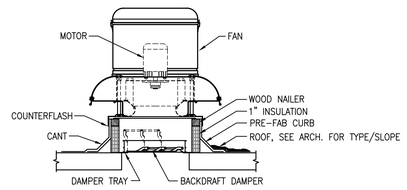
2 AC UNIT DRAIN TRAP DETAIL
NOT TO SCALE



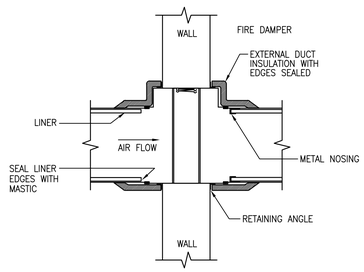
3 DUCT BRANCH CONNECTION DETAIL
NOT TO SCALE



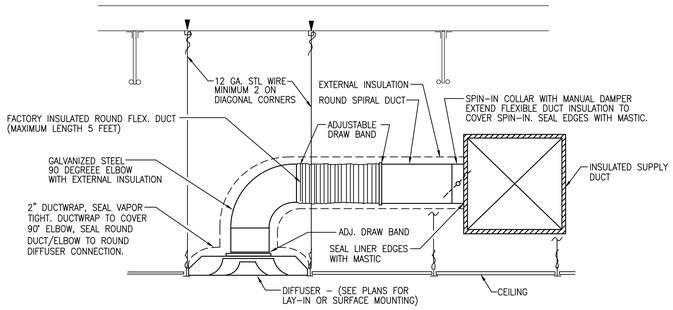
4 PIPE SLEEVE FOR OUTSIDE WALL ABOVE OR BELOW GRADE
NOT TO SCALE



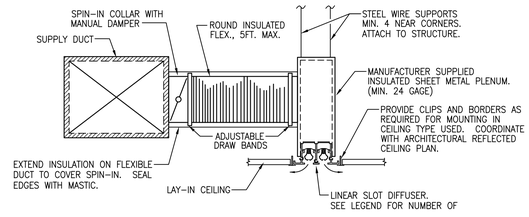
5 CENTRIFUGAL ROOF EXHAUST FAN MOUNTING DETAIL
NOT TO SCALE



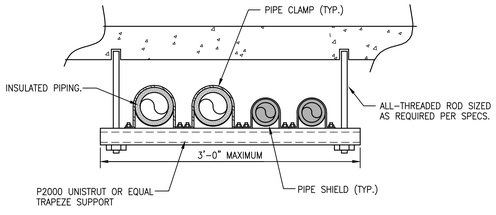
6 DUCT LINER DETAIL AT FIRE DAMPER
NOT TO SCALE



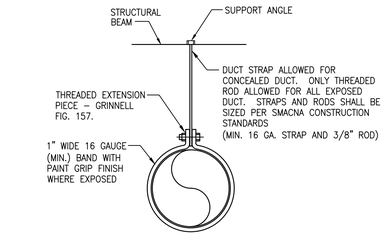
7 CEILING DIFFUSER INSTALLATION DETAIL
NOT TO SCALE



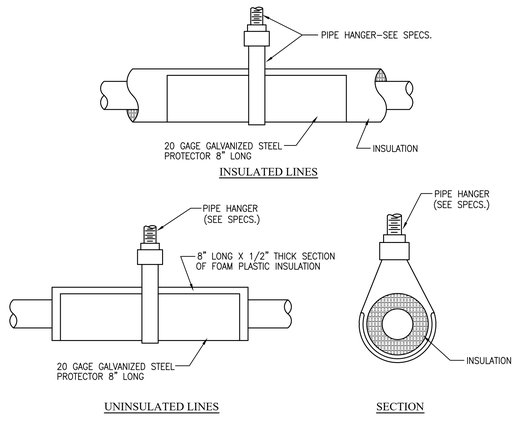
8 LINEAR SLOT CEILING DIFFUSER DETAIL
NOT TO SCALE



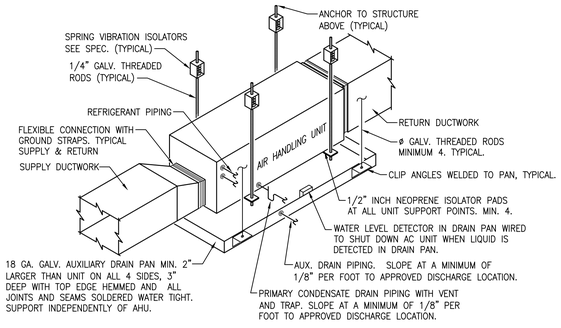
9 PIPING TRAPEZE SUPPORT DETAIL
NOT TO SCALE



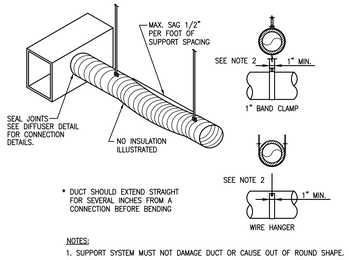
10 ROUND DUCTWORK HANGER / SUPPORT DETAILS
NOT TO SCALE



11 REFRIGERANT LINE HANGERS
NOT TO SCALE

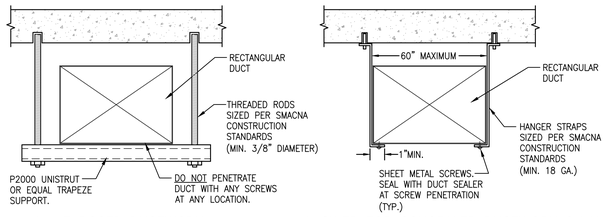


12 HORIZONTAL AIR HANDLING UNIT DETAIL
NOT TO SCALE

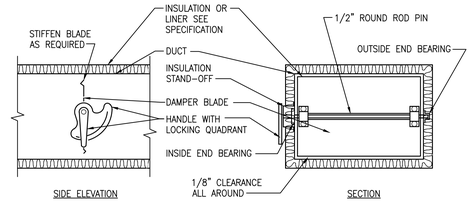


NOTES:
1. SUPPORT SYSTEM MUST NOT DAMAGE DUCT OR CAUSE OUT OF ROUND SHAPE.
2. DUCTS ARE FLEXIBLE WITH EXTERNAL INSULATION AND VAPOR BARRIER JACKETING.
3. MIN. CENTER LINE BEND LINE RADIUS IS ONE DIA. (OR INSIDE RADIUS OF D/2).
4. FLEXIBLE DUCT LENGTH SHALL NOT EXCEED 5 LINEAR FEET.

13 FLEXIBLE DUCT SUPPORT DETAIL
NOT TO SCALE



14 RECTANGULAR DUCTWORK HANGER / SUPPORT DETAILS
NOT TO SCALE



NOTE:
1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
2. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.
3. MANUAL DAMPERS SHALL BE EQUAL TO RUSKIN MD35 (FOR RECTANGULAR DUCTS) AND SHALL BE EQUAL TO RUSKIN MDRS25 (FOR ROUND DUCTS).

15 MANUAL DAMPER (MD) DETAIL
NOT TO SCALE

PLOT DATE: 10/31/2024 1:00 PM

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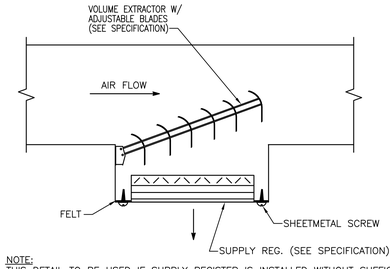
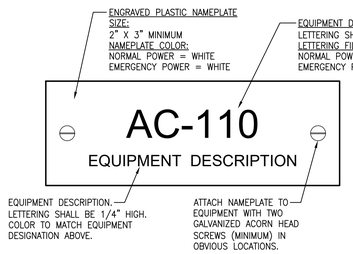
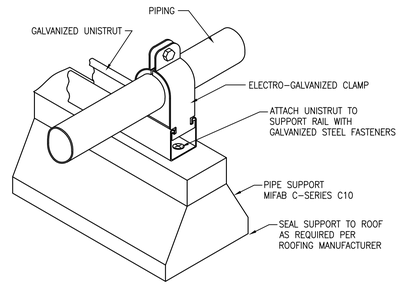


NOTE:
THIS DETAIL TO BE USED IF SUPPLY REGISTER IS INSTALLED WITHOUT SUFFICIENT SPACE TO INSTALL 45° ENTRY AND MANUAL DAMPER AT CONNECTION AT MAIN.

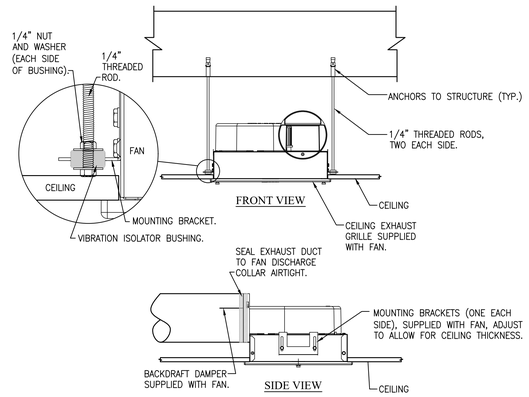
1 DUCT CONNECTION AT SUPPLY REGISTER
NOT TO SCALE



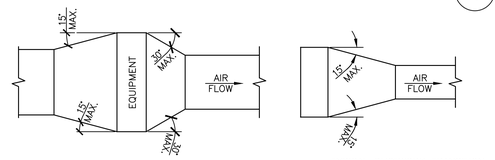
2 EQUIPMENT IDENTIFICATION NAMEPLATE
NOT TO SCALE



3 PIPE SUPPORT ON ROOF DETAIL
NOT TO SCALE

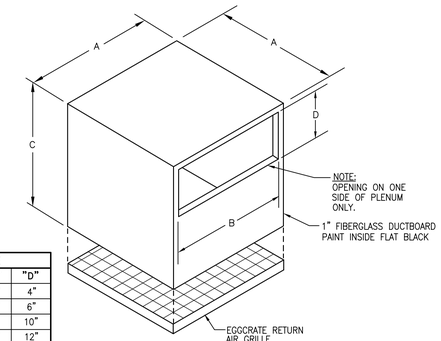


4 CEILING EXHAUST FAN DETAIL
NOT TO SCALE



NOTE:
UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

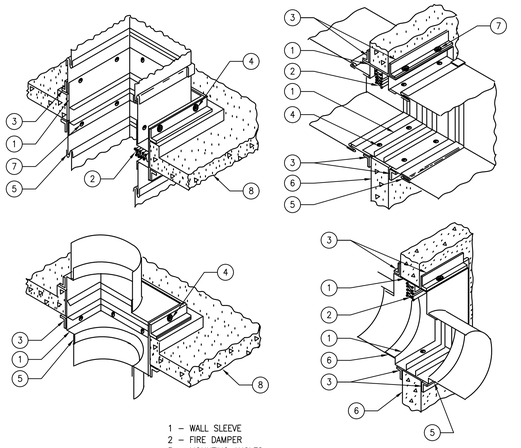
5 DUCTWORK TRANSITION DETAIL
NOT TO SCALE



DIMENSIONS SCHEDULE				
MARK	"A"	"B"	"C"	"D"
R6	6"	4"	10"	4"
R8	8"	6"	12"	6"
R12	12"	10"	16"	10"
R18	19"	16"	18"	12"
R24	24"	22"	18"	12"

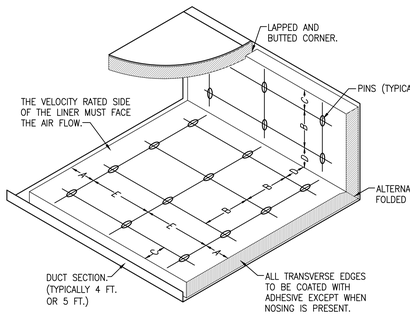
NOTES:
1. VERIFY DIMENSIONS FROM ACTUAL GRILLE SIZES. SEE SCHEDULE
2. PAINT ALL INTERIOR SURFACES FLAT BLACK.
3. PROVIDE SOUND TRAPS ON ALL PLENUM RETURN GRILLES.
4. MECHANICAL CONTRACTOR SHALL INSTALL SOUND TRAP SO THAT OPENING FACES AWAY FROM ROOFTOP AC UNITS AND/OR ANY NOISE GENERATING EQUIPMENT OR SPACE.

9 RETURN AIR GRILLE SOUND TRAP DETAIL
NOT TO SCALE



1 – WALL SLEEVE
2 – FIRE DAMPER
3 – MOUNTING ANGLES
4 – BOLT, SCREW OR RIVET BETWEEN SLEEVE AND DAMPER
5 – BREAK-AWAY JOINT
6 – WALL
7 – BOLT, SCREW OR RIVET BETWEEN SLEEVE AND DAMPER
8 – FLOOR

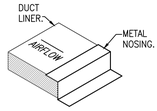
6 FIRE DAMPER INSTALLATION DETAIL
NOT TO SCALE



NOTES:
1. INTERIOR WIDTH OF 8" AND LESS DOES NOT REQUIRE PINS.
2. PLACE PINS 3" ALONG EACH SIDE OF A BUTTED LONGITUDINAL LINER SEAM THAT IS AWAY FROM A CORNER.
3. LINER ADHERED TO THE DUCT WITH 90% MIN. AREA COVERAGE OF ADHESIVE.
4. "A" PIN ROW MAY BE OMITTED WHEN METAL NOSING IS USED. "E" THEN STARTS FROM THE NOSING.

MAXIMUM SPACING FOR FASTENERS. ACTUAL INTERVALS ARE APPROXIMATE.						
VELOCITY *	DIMENSIONS					
	A	B	C	D	E	
0-2500 FPM	3"	12"	4"	6"	18"	
2501-6000 FPM	3"	6"	4"	6"	16"	

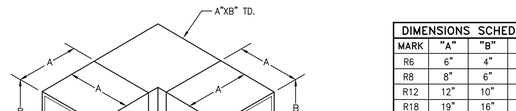
* UNLESS A LOWER LEVEL IS SET BY MANUFACTURER OR LISTING AGENCY.



METAL NOSING DETAIL

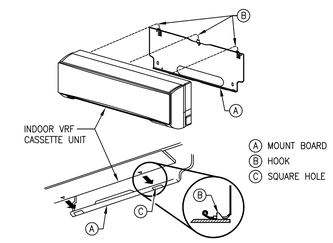
NOTE:
METAL NOSING MUST BE USED WHEREVER LINER IS PRECEDED BY UNLINED METAL. OTHERWISE, WHEN VELOCITY EXCEEDS 4000 FPM, USE METAL NOSING ON EVERY LEADING EDGE. NOSING MAY BE FORMED ON DUCT OR BE CHANNEL OR ZEE ATTACHED BY SCREWS, RIVETS, OR WELDS.

7 DUCT LINER INSTALLATION DETAIL
NOT TO SCALE



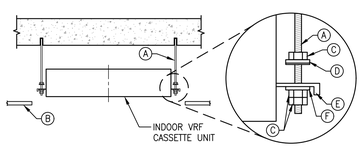
SHEET METAL TRANSFER AIR DUCT LINED WITH 1" INSULATION FOR SOUND
SIZES = "A" & "B" AS SHOWN ON PLANS.

8 TRANSFER AIR DUCT DETAIL
NOT TO SCALE



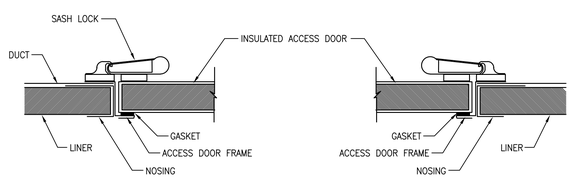
NOTE:
INSTALL INDOOR VRF WALL MOUNTED CEILING CASSETTES IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND REQUIREMENTS. COORDINATE EXACT LOCATION AND ELEVATION WITH WALL TYPE AND HEIGHT AS REQUIRED. CONTRACTOR SHALL VERIFY AND COORDINATE REFRIGERANT AND DRAIN PIPING ORIENTATION PRIOR TO UNIT ALIGNMENT AND PLACEMENT. MANUFACTURER'S INSTALLATION GUIDELINES SUPERSEDE THIS DETAIL WHERE REQUIREMENTS EXCEED THOSE INDICATED.

10 AC WALL CASSETTE MOUNTING DETAIL
NOT TO SCALE



NOTE:
INSTALL INDOOR VRF CEILING CASSETTES IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND REQUIREMENTS. COORDINATE EXACT LOCATION AND ELEVATION WITH CEILING TYPE AND HEIGHT AS REQUIRED. CONTRACTOR SHALL UTILIZE CEILING INSTALLATION TEMPLATE FROM UNIT MANUFACTURER TO ENSURE PROPER UNIT ALIGNMENT AND PLACEMENT. SIZE THREADED ROD AS REQUIRED FOR UNIT WEIGHT. MANUFACTURER'S INSTALLATION GUIDELINES SUPERSEDE THIS DETAIL WHERE REQUIREMENTS EXCEED THOSE INDICATED.

11 VRF CEILING CASSETTE MOUNTING DETAIL
NOT TO SCALE



12 DUCT LINER DETAIL AT ACCESS DOOR
NOT TO SCALE

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Pell City, AL

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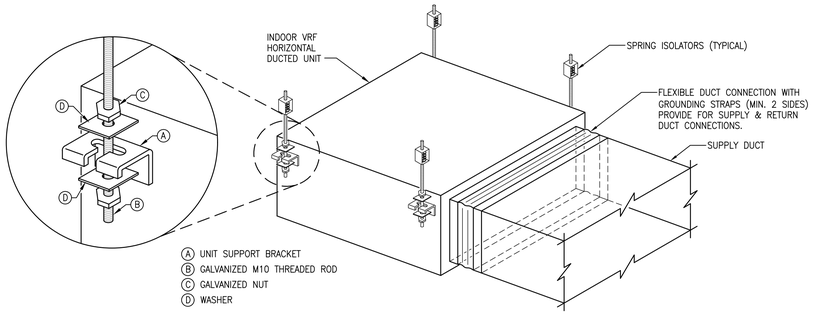
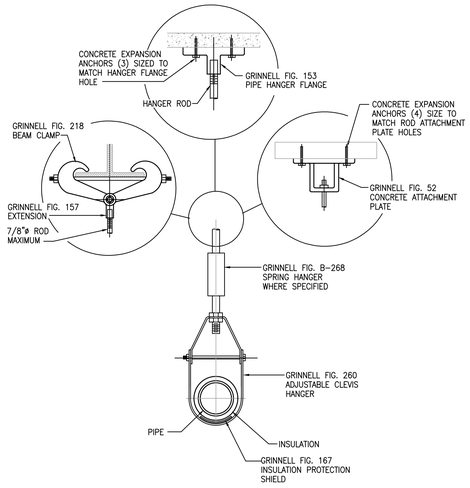
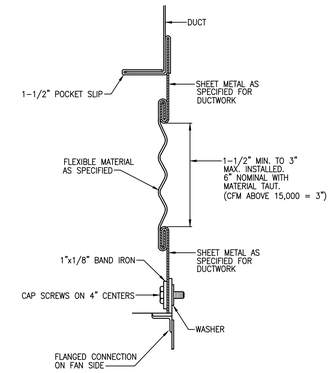


NOTE:
INSTALL INDOOR VRF HORIZONTAL DUCTED UNITS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND REQUIREMENTS. COORDINATE EXACT LOCATION AND ELEVATION WITH CEILING TYPE AND HEIGHT AS REQUIRED. CONTRACTOR SHALL UTILIZE CEILING INSTALLATION TEMPLATE FROM UNIT MANUFACTURER TO ENSURE PROPER UNIT ALIGNMENT AND PLACEMENT. SIZE THREADED ROD AS REQUIRED FOR UNIT WEIGHT. MANUFACTURER'S INSTALLATION GUIDELINES SUPERSEDE THIS DETAIL WHERE REQUIREMENTS EXCEED THOSE INDICATED.

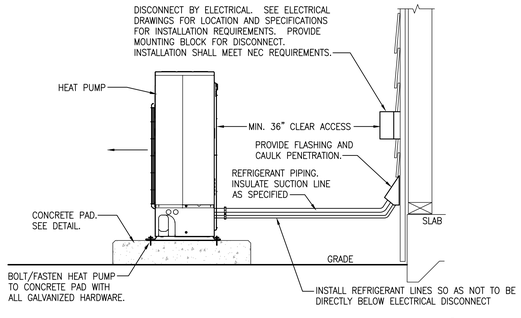
1 VRF CEILING CONCEALED DUCTED UNIT MOUNTING DETAIL
NOT TO SCALE



2 CLEVIS HANGER DETAILS
NOT TO SCALE

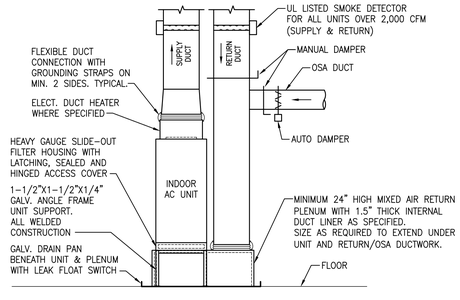


3 FLEXIBLE DUCT CONNECTION DETAIL
NOT TO SCALE

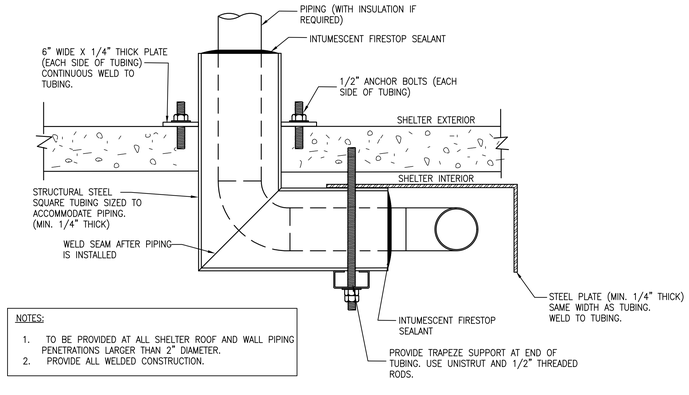


NOTE: IF REFRIGERANT LINES ARE REQUIRED TO PENETRATE THE EXTERIOR WALL HIGHER THAT 24" ABOVE GRADE THE MECHANICAL CONTRACTOR SHALL ROUTE PIPING UP EXTERIOR WALL AND SHALL PROVIDE AND INSTALL AN EASILY REMOVABLE GALVANIZED STEEL COVER OVER PIPING AS REQUIRED. COVER SHALL BE PAINT GRIP GRADE. COVER SHALL BE PAINTED TO MATCH EXTERIOR WALL COLOR. ANCHOR COVER TO BOLT/FASTEN HEAT PUMP TO CONCRETE PAD WITH ALL GALVANIZED HARDWARE.

4 HEAT PUMP ON GRADE MOUNTING DETAIL
NOT TO SCALE



5 VERTICAL AIR HANDLING UNIT DETAIL
NOT TO SCALE



NOTES:
1. TO BE PROVIDED AT ALL SHELTER ROOF AND WALL PIPING PENETRATIONS LARGER THAN 2" DIAMETER.
2. PROVIDE ALL WELDED CONSTRUCTION.

6 DETAIL OF PIPE PASSING THRU SHELTER WALL OR ROOF
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A NEW FACILITY FOR:
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FIRE STATION # 2
Pell City, AL

SHEET TITLE
MECHANICAL DETAILS

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CHECKED BY
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SHEET NUMBER
M2.03

FIRE STATION #2

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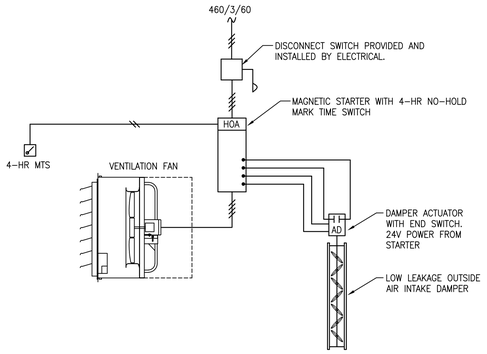
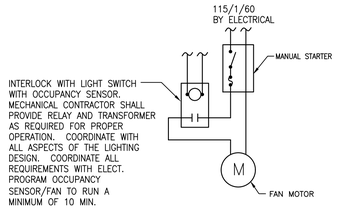
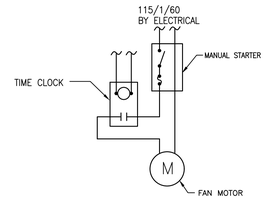


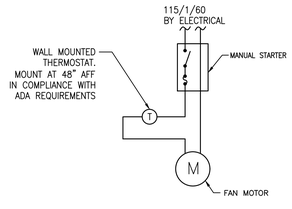
1 VENTILATION FAN VF-01 CONTROLS DIAGRAM
NOT TO SCALE



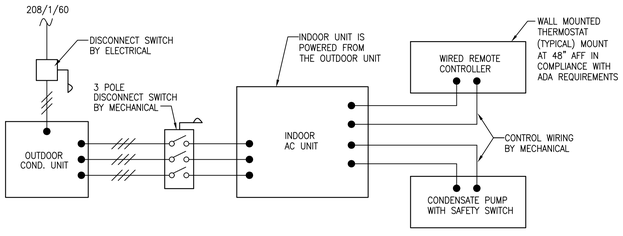
2 EXHAUST FAN EF-01, 04 & 05 CONTROLS DIAGRAM
NOT TO SCALE



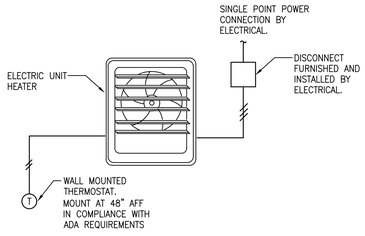
3 EXHAUST FAN EF-02 & 03 CONTROLS DIAGRAM
NOT TO SCALE



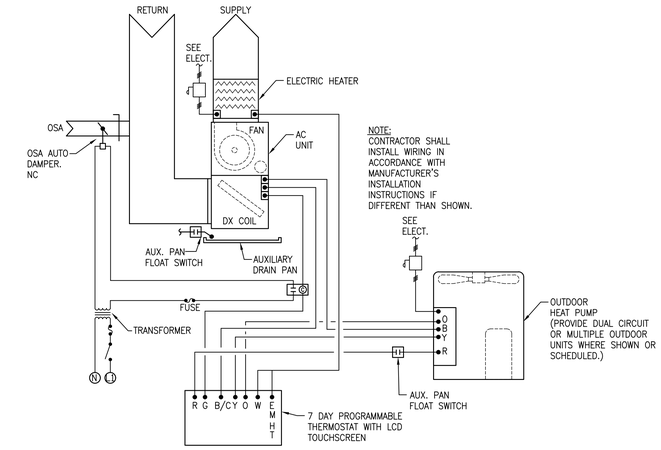
4 EXHAUST FAN EF-06 & 07 CONTROLS DIAGRAM
NOT TO SCALE



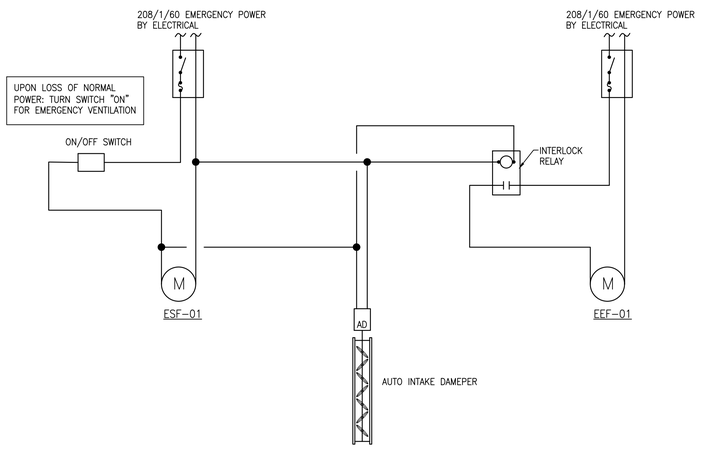
5 SPLIT SYSTEM HP-02 & 03 CONTROLS DIAGRAM
NOT TO SCALE



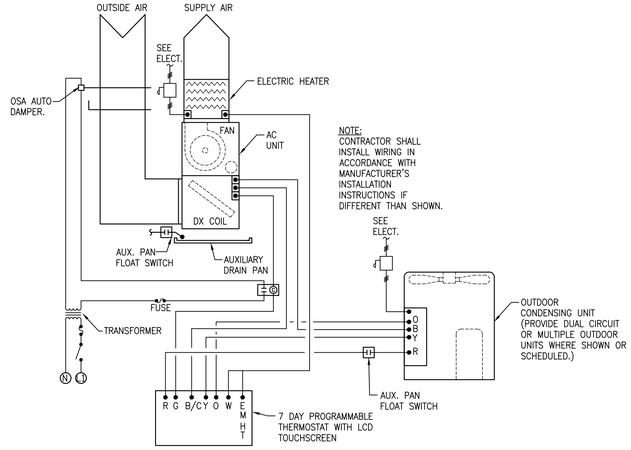
6 ELECTRIC UNIT HEATER CONTROLS
NOT TO SCALE



7 SPLIT SYSTEM HP-01 CONTROLS DIAGRAM
NOT TO SCALE



8 EMERGENCY VENTILATION CONTROLS
NOT TO SCALE



9 DOAS-01 CONTROLS DIAGRAM
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VRF SYSTEM PIPING & WIRING SCHEMATIC DIAGRAM

DIAGRAM SYMBOL LEGEND	
DISPLAY	DESCRIPTION
—//—	POWER WIRE
———	CONTROL WIRE
------	REF. PIPE

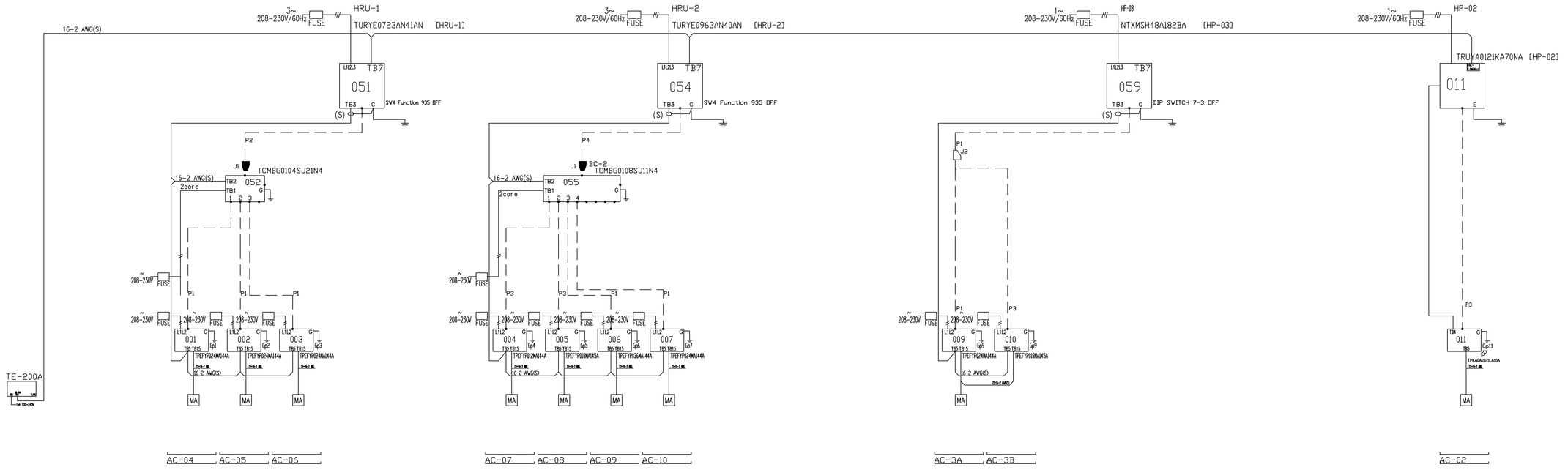
PIPING AND CONTROLS		
SYMBOL	BRANCH PIPE MODEL NAME	
J1	CMY-R302S-G1	
J2	CMY-R301S-G	
SYMBOL	LIQUID PIPE/GAS PIPE SIZE	
P1	1/4	1/2
P2	3/8	5/8
P3	7/8	1-1/8
P4	5/8	3/4
SYMBOL	MODEL NUMBER	
MA	TAR-40MAAU	

THIS DRAWING IS SCHEMATIC IN NATURE. FINAL ROUTING OF PIPING AND WIRING SHALL BE DETERMINED BY THE MECHANICAL CONTRACTOR AND SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL OTHER TRADES. ADDITIONAL REFRIGERANT CHARGE IS NEEDED DEPENDING ON THE SIZE AND LENGTH OF EXTENDED PIPING. PLEASE REFER THE AMOUNT OF PRE-CHARGE AND THE FORMULA OF CALCULATION WHICH IS MENTIONED ON THE DATA BOOK.

1.25mm²(16 AWG) : 1.25mm²(16 AWG) or more. 0.75mm²(20 AWG) : between 0.5mm²(24 AWG) and 0.75mm²(20 AWG).

CODED NOTES:

NOTE 1: INSTALL TWINNING Y'S WITHIN 15 DEGREES OF LEVEL AND WITH 20 INCHES OF STRAIGHT PIPE ON CONVERGING CONNECTION – REFERENCE INSTALLATION MANUAL FOR ADDITIONAL DETAILS INCLUDING BUT NOT LIMITED TO SPECIAL TRAPPING REQUIREMENTS WHEN TWINNING, AND PIPE SLOPE REQUIREMENTS



VRF SYSTEM PIPING NOTES:

1. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL REFRIGERANT AS REQUIRED BASED ON ACTUAL PIPING SIZES AND LINE LENGTHS. COORDINATE ALL REFRIGERANT REQUIREMENTS WITH VRF EQUIPMENT MANUFACTURER.
2. ALL REFRIGERANT PIPING SHALL BE INSULATED AS SPECIFIED AND IN ACCORDANCE WITH 2018 INTERNATIONAL ENERGY CONSERVATION CODE AND ASHRAE 90.1. PRE-INSULATED PIPING CLAMPS SHALL BE PROVIDED AND INSTALLED ON ALL REFRIGERANT PIPING.
3. THE MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL PIPING LABELS ON ALL REFRIGERANT PIPING AS SPECIFIED.
4. THE MECHANICAL CONTRACTOR SHALL LABEL ALL PORTS AND REFRIGERANT PIPING WITH INDOOR AC UNIT AND OUTDOOR UNIT SERVED.
5. THE VRF SYSTEM MANUFACTURER SHALL PROVIDE DRAWINGS AND SUBMITTALS OF COMPLETE FINAL PIPING LINE SIZES, LENGTHS, ELBOWS, ETC. IN ACCORDANCE WITH ALL MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS. DRAWINGS SHALL INCLUDE ALL WIRING AND PIPING TYPE, SIZES, ETC. MECHANICAL CONTRACTOR SHALL COORDINATE ALL SIZES SHOWN ON PLANS WITH ACTUAL EQUIPMENT TO BE PROVIDED.

VRF SYSTEM GENERAL NOTES:

1. THE BASIS OF DESIGN FOR THIS PROJECT IS TRANE/MITSUBISHI VARIABLE REFRIGERANT HEAT RECOVERY SYSTEM. SEE SPECIFICATIONS FOR OTHER ACCEPTABLE MANUFACTURERS.
2. A STANDARD HEAT PUMP SYSTEM IS NOT ACCEPTABLE. ONLY HEAT RECOVERY SYSTEMS THAT ALLOW SIMULTANEOUS HEATING AND COOLING WILL BE ALLOWED.
3. LOCATE ALL INDOOR HEAT PUMP UNITS TO ALLOW ADEQUATE SERVICE CLEARANCES AND ALL MANUFACTURER'S RECOMMENDED AND REQUIRED ACCESS AND CLEARANCES.
4. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL EQUIPMENT, PIPING, CONTROLS, WIRING, RELAYS, INTERFACES, ETC. TO PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM AS SPECIFIED AND SHOWN ON THE FLOOR PLANS AND IN THE TYPICAL DETAILS IN THE CONSTRUCTION DOCUMENTS REGARDLESS OF THE MANUFACTURER PROVIDED.
5. IF AN ALTERNATE MANUFACTURER IS APPROVED AND SELECTED FOR THIS PROJECT, THEN ALL OF THE FOLLOWING IS REQUIRED:
   A. THE MECHANICAL CONTRACTOR SHALL CERTIFY IN WRITING AT THE TIME OF BID THAT THE USE OF THE ALTERNATE SYSTEM AND EQUIPMENT WILL NOT REQUIRE CHANGES TO OTHER WORK OR RE-DESIGN BY THE ARCHITECT, MECHANICAL OR OTHER ENGINEERING DISCIPLINES.
   B. THE MECHANICAL CONTRACTOR SHALL CERTIFY IN WRITING AT THE TIME OF BID THAT THE USE OF THE ALTERNATE SYSTEM AND EQUIPMENT WILL ACHIEVE THE PERFORMANCE OF THE BASIS OF DESIGN SYSTEM SPECIFIED.
   C. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COSTS OR CHANGE-ORDERS DUE TO VARIANCES FROM THE BASIS OF DESIGN SYSTEM AND EQUIPMENT.
   D. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REDESIGN COSTS THAT ARE REQUIRED DUE TO VARIANCES FROM THE BASIS OF DESIGN SYSTEM. THIS INCLUDES, BUT IS NOT LIMITED TO, PROVIDING A REVISED PIPING LAYOUT TO THE MECHANICAL ENGINEER IN A FORMAT AS REQUESTED BY THE MECHANICAL ENGINEER (I.E., CAD, PDF, ETC.). THE MECHANICAL CONTRACTOR SHALL PROVIDE COORDINATION WITH THE ARCHITECT, ELECTRICAL AND STRUCTURAL ENGINEER FOR REVISED ELECTRICAL AND/OR STRUCTURAL REQUIREMENTS FOR THE ALTERNATE SYSTEM. ADDITIONAL INFORMATION MAY BE REQUIRED BY THE MECHANICAL OR ELECTRICAL ENGINEERS TO THOROUGHLY EVALUATE THE SYSTEM DESIGN AND PERFORMANCE.

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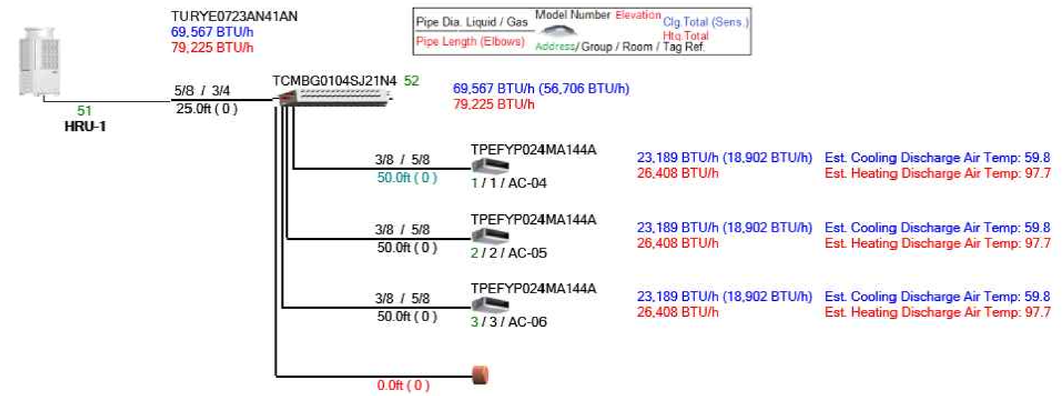

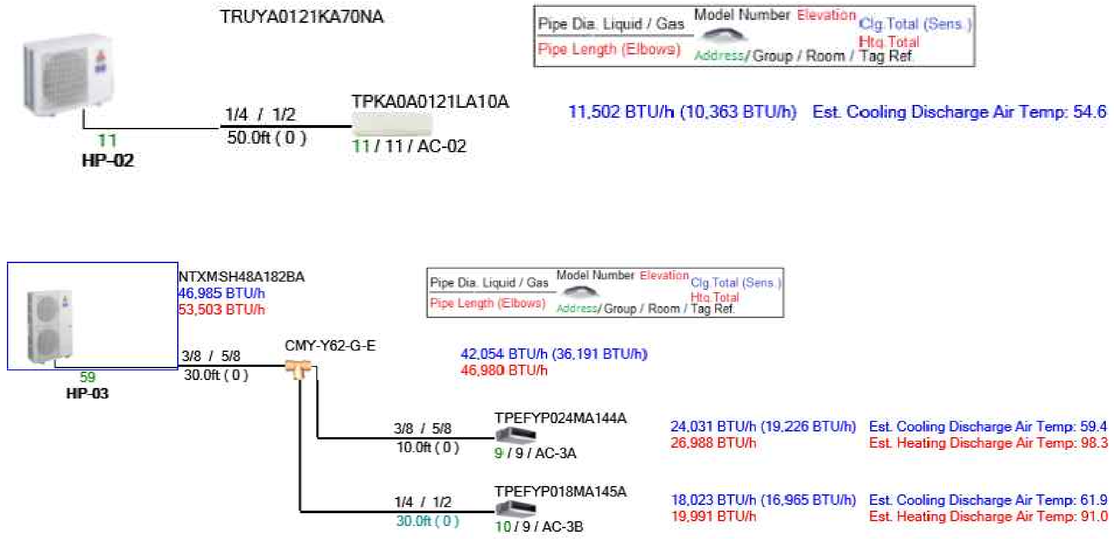

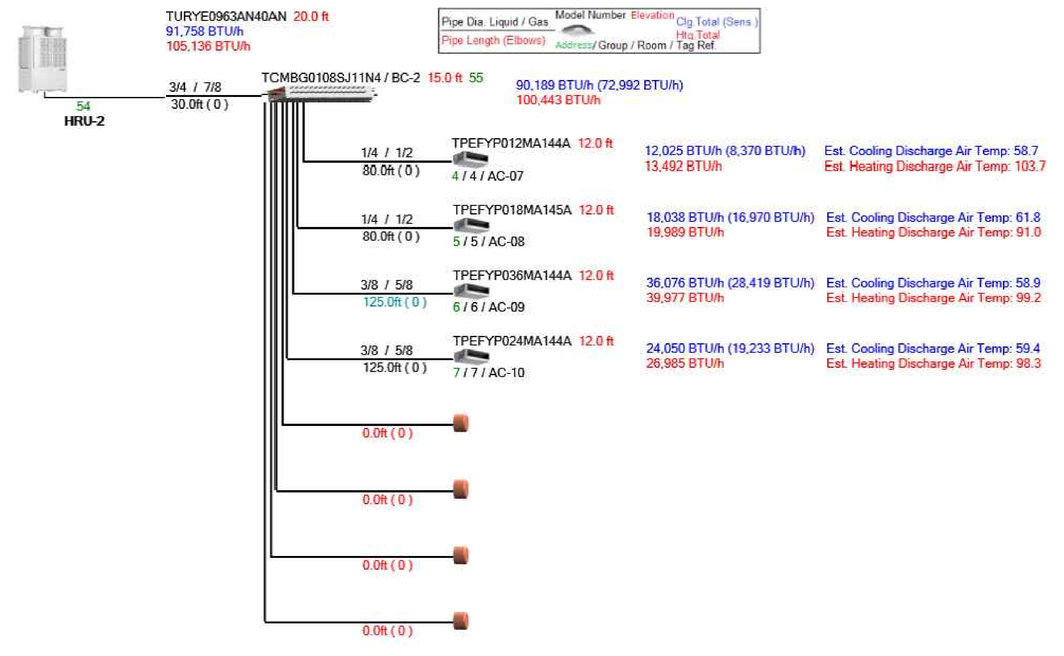

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FIRE STATION # 2
Pell City, AL

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SHEET TITLE
VRF SCHEMATIC

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1917
ISSUE DATE
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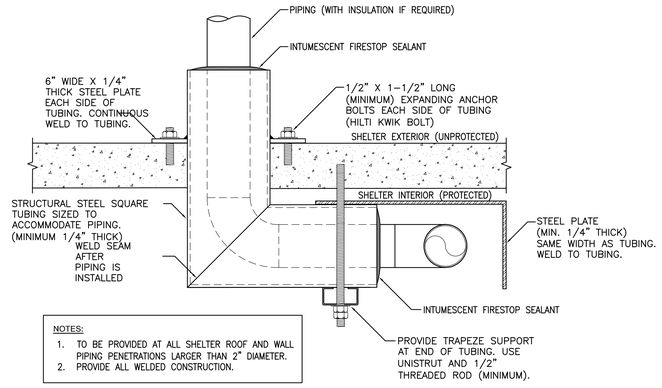
DRAWN BY
NDH
CHECKED BY
JSD
SHEET NUMBER
M2.06

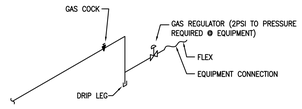
FIRE STATION #2

PLOT DATE: 10/31/2024, 1:00 PM



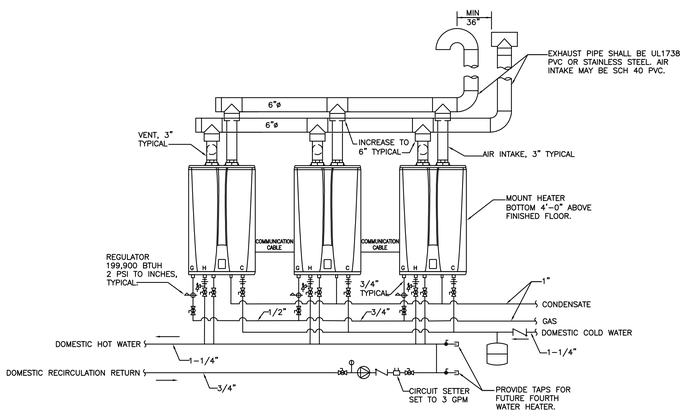
NOTES:
1. TO BE PROVIDED AT ALL SHELTER ROOF AND WALL PIPING PENETRATIONS LARGER THAN 2" DIAMETER.
2. PROVIDE ALL WELDED CONSTRUCTION.

DETAIL OF PIPE PASSING THRU STORM SHELTER WALL OR ROOF
NO SCALE



TYPICAL GAS CONNECTION
NO SCALE

WALL CLEANOUT
NO SCALE



INSTANT WATER HEATER PIPING DETAIL
NO SCALE

PLUMBING FIXTURE CONNECTION & DESCRIPTION SCHEDULE

MARK	FIXTURE	WASTE	COLD WATER	HOT WATER	REMARKS
WC-1	WATER CLOSET	4"	1"	---	FLOOR MOUNTED
WC-2	WATER CLOSET	4"	1"	---	FLOOR MOUNTED, ADA
LAV-1	LAVATORY	1-1/4"	3/8"	3/8"	COUNTER MOUNT, ADA, ASSE 1070 THERMOSTATIC MIXING VALVE
LAV-2	LAVATORY	1-1/4"	3/8"	3/8"	WALL HUNG, ADA, ASSE 1070 THERMOSTATIC MIXING VALVE
SK-1	SINK	1-1/2"	1/2"	1/2"	1-COMPARTMENT, STAINLESS STEEL, COUNTER MOUNT
SK-2	LAUNDRY SINK	1-1/2"	1/2"	1/2"	1-COMPARTMENT, STAINLESS STEEL COUNTER MOUNT
SK-3	SINK DECONTAMINATION	1-1/2"	1/2"	1/2"	1-COMPARTMENT, COUNTER MOUNT
SH-1	SHOWER, ADA	2"SD	1/2"	1/2"	PRE-FAB COMPARTMENT, VALVE, HEAD, DRAIN, AND HANDSPRAY BY PLUMBING.
SH-2	SHOWER	2"SD	1/2"	1/2"	SHOWER COMPARTMENT BY GC, VALVE, HEAD, DRAIN, AND HANDSPRAY BY G.C.
JR-1	JANITOR'S RECEPTOR	3"	1/2"	1/2"	PRECAST
EWC-1	ELECTRIC WATER COOLER	1-1/4"	1/2"	---	BI-LEVEL, INCLUDE BOTTLE FILLER AND FILTER
DW	DISH WASHER	3/4"	---	1/2"	BY OTHERS, PIPE WASTE TO SINK
WMB	WASHER MACHINR BOX	2"	1/2"	1/2"	
IMB	ICE MAKER BOX	---	1/4"	---	

INSTANTANEOUS WATER HEATERS

MARK	TYPE	MODEL EEMAX	ELECTRICAL V/ø	KW	GPM/RISE	COMMENTS (SERVING)
GTWH-1	INSTANTANEOUS	SP3512	208/1	3.5	1/2 @ 48°	1 LAVATORY
GTWH-2	INSTANTANEOUS	SP3512	208/1	3.5	1/2 @ 48°	1 LAVATORY
GTWH-3	INSTANTANEOUS	SP3512	208/1	3.5	1/2 @ 48°	1 LAVATORY
GTWH-4	INSTANTANEOUS	SP3512	208/1	3.5	1/2 @ 48°	1 LAVATORY

GAS TANKLESS WATER HEATERS

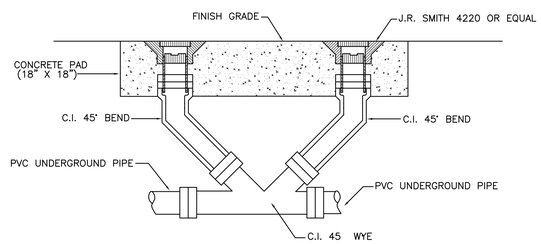
TAG	SERVING	TYPE GAS	EWT °F	LVT °F	GPM ON 100°F RISE	MBH INPUT	MODEL	NOTE
IWH-1	BUILDING	INSTANT / NG	60	140	3.9	199,000	NAVIEN NPE-S2	(1) (2)
IWH-2	BUILDING	INSTANT / NG	60	140	3.9	199,000	NAVIEN NPE-S2	(1) (2)
IWH-3	BUILDING	INSTANT / NG	60	140	3.9	199,000	NAVIEN NPE-S2	(1) (2)

(1) BURNER SHALL SHUT OFF UPON HIGH FLUE TEMPERATURE.
(2) INCLUDE BACKDRAFT DAMPER

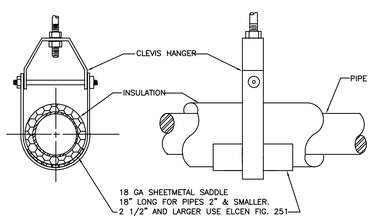
CIRCULATORS

TAG	SERVES	TYPE	ELECTRICAL	CAPACITY	MODEL	NOTE
CP-1	140° HWR	IN LINE BRONZE	120/1	3 GPM @ 10 FT.	B&G PL	(1)

NOTE:
(1) AQUASTAT AND 7 DAY CONTROL



DETAIL of EXTERIOR CLEANOUT to GRADE
(SANITARY) NO SCALE



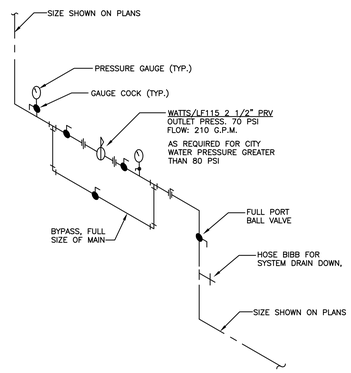
SUSPENDED PIPE SUPPORT
NO SCALE

GENERAL NOTES

1. LOCATIONS OF UTILITIES SHOWN ON PLANS ARE APPROXIMATE. VERIFY WITH LOCAL UTILITY PRIOR TO BIDDING.
2. ALL OUTSIDE CLEANOUTS SHALL BE BROUGHT TO GRADE AND EMBEDDED IN 18"X18"X6" THICK CONCRETE PAD.
3. WHEREVER DISSIMILAR METALS ARE CONNECTED A DIELECTRIC CONNECTOR SHALL BE USED.
4. ALL HORIZONTAL WATER, GAS, AND VENT PIPING IS RUN ABOVE CEILING ON PLAN WHICH SHOWN UNLESS OTHERWISE NOTED.
5. ALL HORIZONTAL SANITARY AND STORM PIPING IS RUN BELOW FLOOR ON PLAN WHICH SHOWN UNLESS OTHERWISE NOTED.
6. ALL WATER PIPING BELOW SLAB ON GRADE SHALL BE BENT UP AT ENDS SO THAT NO JOINTS OCCUR BELOW FLOOR.
7. COORDINATE ALL PIPE ROUTING TO AVOID CONFLICTS WITH STRUCTURAL, MECHANICAL, AND ELECTRICAL FEATURES OF BUILDING.
8. ALL PIPE VALVES AND FITTINGS SHALL BE MADE IN THE USA

PLUMBING LEGEND

———	SOIL OR WASTE LINE
– – – – – –	VENT LINE
——D———	DRAIN PIPE
——S———	STORM LINE
——–———	COLD WATER LINE
——– –———	HOT WATER LINE
——– – –———	HOT WATER CIRCULATOR LINE
——⊱———	BALL VALVE
———o	PIPE TURNING UP
———o	PIPE TURNING DOWN
———u	P-TRAP
⊱—N—N—⊱ RZBP	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
PRV	PRESSURE REDUCING STATION, SEE DETAIL
"X"	WATER HAMMER ARRESTER, SIZE SHOW
	TRAP PRIMER LINE UNDER SLAB
WH	WALL HYDRANT
FD	FLOOR DRAIN
MFD	MECHANICAL ROOM FLOOR DRAIN
FS	FLOOR SINK
AD	AREA DRAIN
HD	HUB DRAIN
P-#	PLUMBING FIXTURE NO.
(#)	RISER DIAGRAM NO.
AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISHED FLOOR
TD	TRENCH DRAIN
CO	CLEANOUT
R	RETURN
CW	COLD WATER
VTR	VENT THRU ROOF
HW	HOT WATER
HWR	HOT WATER RETURN
AB.CL'G	ABOVE CEILING
DD	DUMPSTER DRAIN
CONN.	CONNECTION
DN.	DOWN
W/	WITH
EWC.	ELECTRIC WATER COOLER
LAV.	LAVATORY
S.S.	STAINLESS STEEL
W.C.	WATER CLOSET
TG	TRAP GUARD
WCO	WALL CLEAN OUT



PIPING @ DOMESTIC WATER ENTRY
NO SCALE

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SCHEDULES, DETAILS, LEGENDS, AND NOTES

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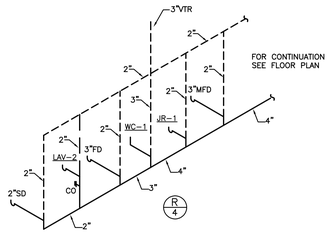

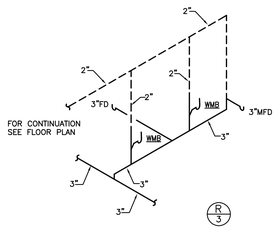

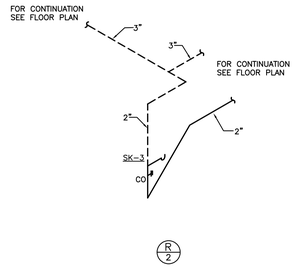

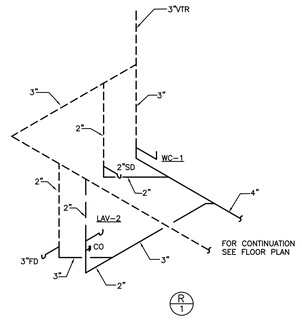

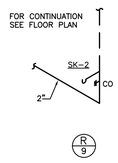

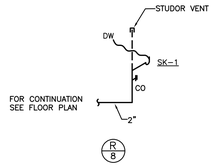

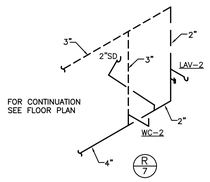

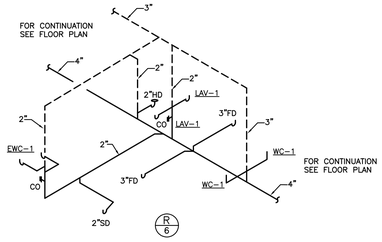

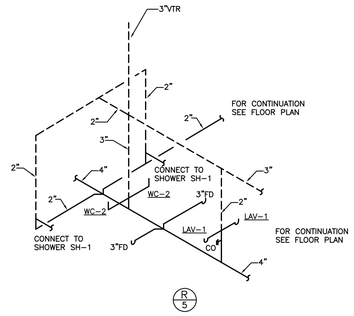

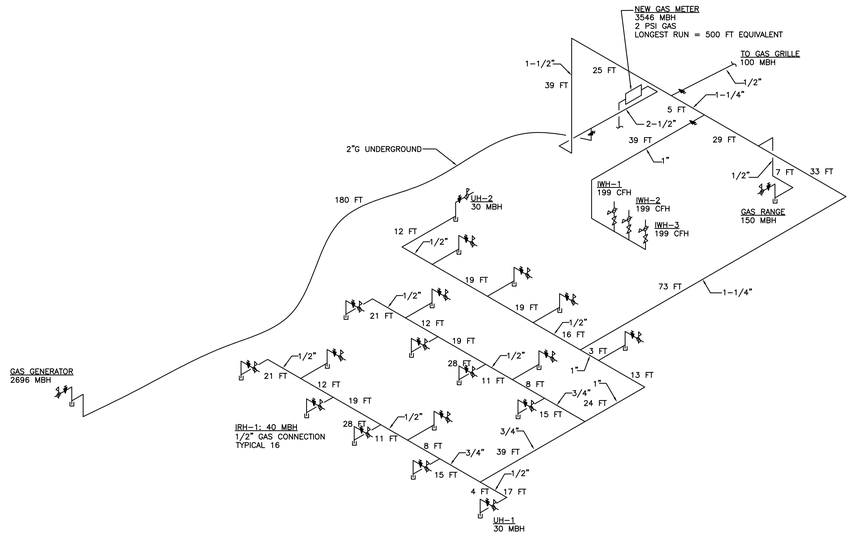

GAS PIPING DIAGRAM

NO SCALE:

SYSTEM SIZED ON 500 FT DEVELOPED LENGTH

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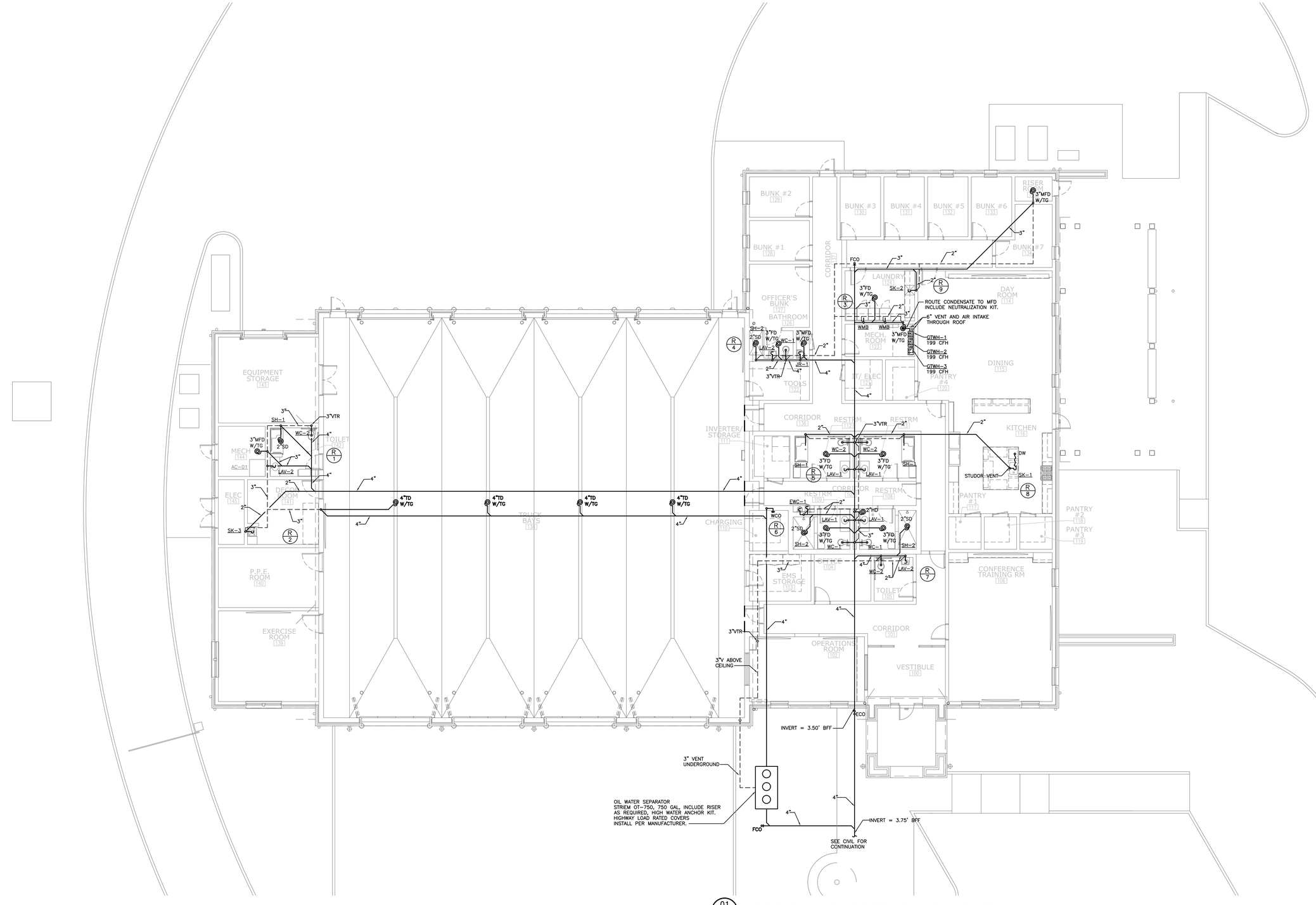

01 / 1.01 FLOOR PLAN NONPRESSURE - PLUMBING
1/8" = 1'-0"

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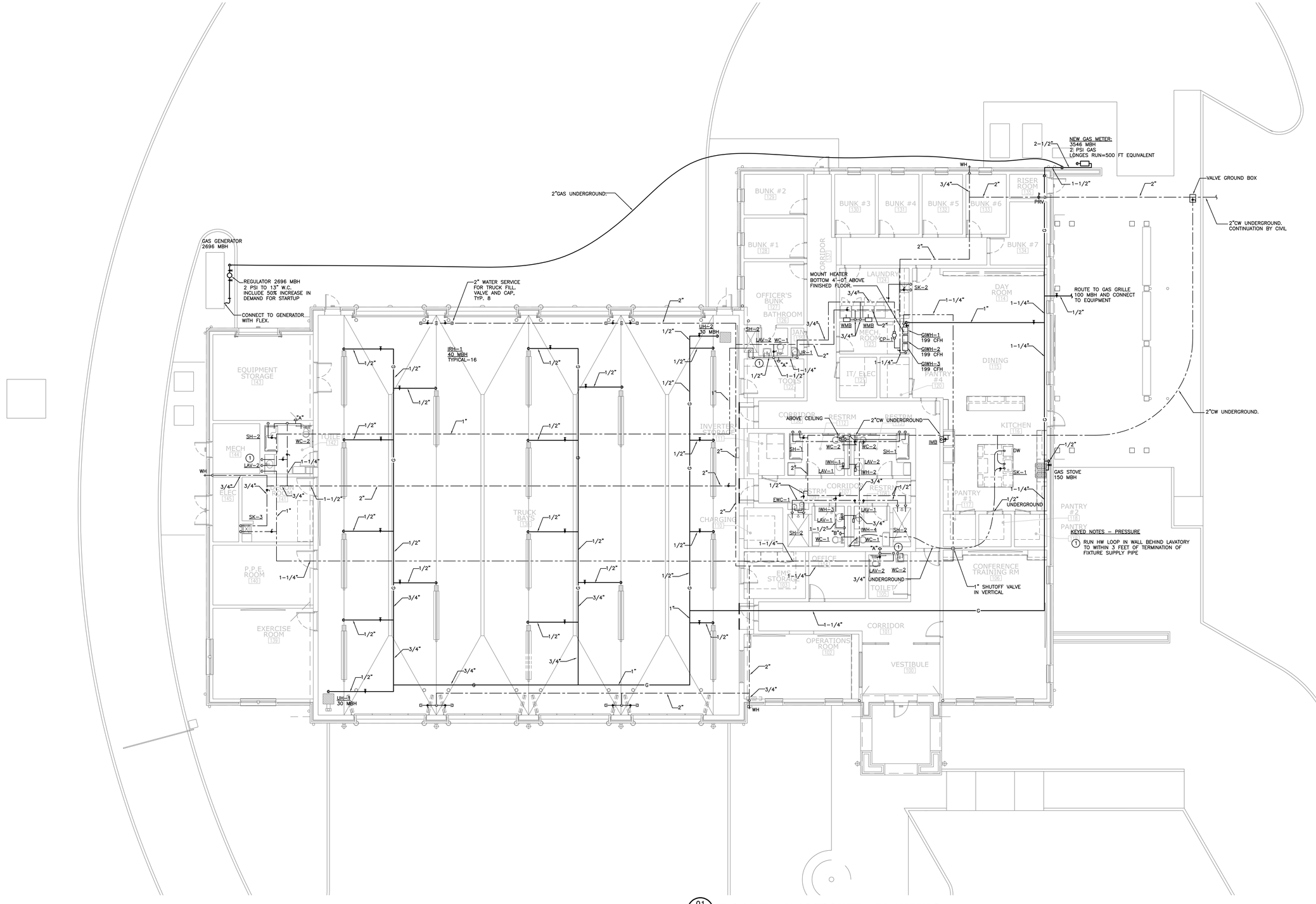

01/1.02 FLOOR PLAN PRESSURE - PLUMBING
1/8" = 1'-0"

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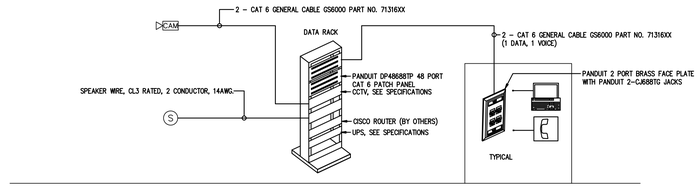
ELECTRICAL NOTES

1. SECONDARY SERVICE: 120/208 VOLTS, 3 PHASE, 4 WIRE, SOLID NEUTRAL, WYE.
2. BRANCH CIRCUITS #12 A.W.G. AND 1/2" CONDUIT MINIMUM. CONDUCTORS SHALL BE 98% CONDUCTIVITY COPPER, SEE SPECIFICATIONS FOR TYPE INSULATION.
3. THE ELECTRICAL CONTRACTOR SHALL CAREFULLY COORDINATE HIS WORK WITH OTHER MECHANICAL CONTRACTORS THROUGH THE GENERAL CONTRACTOR FOR SPACE REQUIREMENTS, ETC.
4. SEE DETAIL FOR MOUNTING HEIGHTS OF ALL ELECTRICAL DEVICES UNLESS OTHERWISE NOTED.
5. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH IBC 2006 AND LOCAL ORDINANCES. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS.
6. ALL NEW CONDUITS RUN IN BUILDING SHALL BE CONCEALED WHERE POSSIBLE. EXACT ROUTING OF CONDUITS SHALL BE APPROVED BY THE ENGINEER.
7. ALL BRANCH CIRCUITS SHALL INCLUDE A GREEN COVERED GROUND WIRE SIZE PER NATIONAL ELECTRICAL CODE OR AS SHOWN CONNECTED TO EACH DEVICE AND OUTLET BOX ON THE CIRCUIT AND TO THE PANELBOARD GROUND BUS. MULTIPLE WIRE BRANCH CIRCUITS WITH COMMON NEUTRAL REQUIRE ONLY ONE GROUND WIRE. NUMBER OF WIRES SHOWN ON DRAWINGS DOES NOT INCLUDE GROUND WIRE.
8. CONTRACTOR SHALL CHECK ALL LIGHTING LUMINAIRES FOR EXACT TYPE MOUNTING, VOLTAGE AND SPACE REQUIRED BEFORE ROUGHING IN.
9. DO NOT INSTALL CEILING GRID OR LAY-IN TILES UNTIL ALL ABOVE CEILING WORK IS COMPLETE AND INSPECTED BY OWNER

ELECTRICAL LEGEND

- BRANCH CIRCUIT: NEW CONCEALED IN CEILING, WALL, OR IN CEILING SLAB.
- BRANCH CIRCUIT: NEW CONCEALED IN SLAB OR UNDERGROUND.
- BRANCH CIRCUIT: FLEXIBLE CONNECTION
- BRANCH CIRCUIT: EXPOSED.
- BRANCH CIRCUIT: HOMERUN TO PANELBOARD AND 20A., 1P., BREAKER, UNLESS OTHERWISE NOTED.
  NOTE: SHOWN 2#12 AND 1#12(G)-1/2"C. ——//—— 3#12 AND 1#12(G)-3/4"C. ——//—— 4#12 AND 1#12(G)-3/4"C. ——10——// 2#10 AND 1#10(G)-3/4"C. ——10——// 3#10 AND 1#10(G)-3/4"C. ETC., PER NATIONAL ELECTRICAL CODE FOR GREATER NUMBER OF CONDUCTORS OR AS NOTED. THE NUMBER IN THE CIRCUIT INDICATES AWG WIRE SIZE AND HASHMARKS INDICATE NUMBER OF WIRES REQUIRED GROUND WIRE SHALL BE SIZED IN ACCORDANCE WITH N.E.C. TABLE #250-95. NUMBER OF HASHMARKS DO NOT INCLUDE GROUND WIRE.
- BRANCH CIRCUIT: HOMERUN TO PANELBOARD AND 20A., 1P., BREAKER, UNLESS OTHERWISE NOTED. NOTE: SHOWN 2#12 AND 1#12(G)-1/2"C.
- WP WEATHERPROOF, NEMA 3R.
- EM EMERGENCY
- NL NIGHT LIGHT
- POWER PANEL
- RECEPTACLE PANEL
- FIRE ALARM SYSTEM: ADDRESSABLE PHOTOELECTRIC DUCT DETECTOR WITH SAMPLING TUBES. (R = RETURN ; S = SUPPLY)
- FIRE ALARM SYSTEM: ADDRESSABLE DOUBLE ACTION MANUAL PULL STATION.
- 95cd(H) FIRE ALARM SYSTEM: COMBINATION SPEAKER AND STROBE. NUMBER INDICATES MINIMUM CANDELA RATING FOR STROBE, OTHERWISE 15 CANDELA. CEILING (C) OR WALL MOUNTED AS SHOWN.
- AMM FIRE ALARM SYSTEM: ADDRESSABLE MONITOR MODULE
- ACM FIRE ALARM SYSTEM: ADDRESSABLE CONTROL MODULE
- FACP FIRE ALARM SYSTEM: FIRE ALARM CONTROL PANEL
- FIRE ALARM SYSTEM: ADDRESSABLE FIXED TEMPATURE THERMAL DETECTOR
- FIRE ALARM SYSTEM: ADDRESSABLE SMOKE DETECTOR
- FIRE ALARM SYSTEM: ADDRESSABLE CARBON MONOXIDE DETECTOR
- RAN GENERATOR SYSTEM: REMOTE ANNUNCIATOR

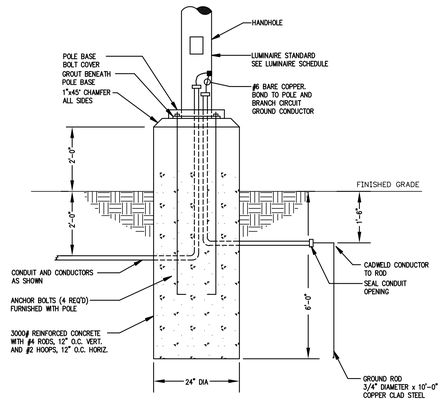
- CONTACTOR: SURFACE MOUNTED.
- PC PHOTO CELL, HEAVY DUTY WITH ADJUSTABLE BASE AND LENS COVER, DIRECT TO ANI NORTH AND DOWNWARD DIRECTION.
- CEILING OUTLET: JUNCTION BOX.
- **WALL OUTLET: JUNCTION BOX WITH FLEXIBLE CONNECTION.**
- WALL OUTLET: DUPLEX RECEPTACLE, 15A.,125V.,2P.,3W.,NEMA 5-15P.
- WALL OUTLET: DOUBLE DUPLEX RECEPTACLE, 15A.,125V.,2P.,3W.,NEMA 5-15P. TWO HUBBELL #5252 W/ SINGLE PLATE.
- **WALL OUTLET: DUPLEX RECEPTACLE, 15A.125V.,2P.,3W.,NEMA 5-15P. WITH USB-A AND USB-C OUTLETS**
- **FLOOR OUTLET: RECESSED FLOOR RECEPTACLE/DATA OUTLET. LEGRAND EFB45 WITH FLUSH STYLE COVER**
- **WALL OUTLET: DRYER RECEPTACLE, 30A.250V.,4P.,4W.,NEMA 14-30R**
- **POWER/TELEPHONE/DATA FIRE RATED POKE THRU. RC4 BRASS**
- 72" **WALL OUTLET: IN WALL RECESSED TV OUTLET WITH DUPLEX OUTLET W/ USB OUTLETS, COAX, CAT 6 AND CABLE MANAGMENT OPENING. LEGRAND PASS & SEYMOUR TV2WW**
- WALL OUTLET: RECEPTACLE, 30A.,120V.,3P.,3W., NEMA L5-30R
- H WALL OUTLET: RECEPTACLE, INSTALLED HORIZONTAL
- GFI WALL OUTLET: GROUND FAULT INTERRUPTER RECEPTACLE, (FEED-THRU) (TERMINAL)
- WP WALL OUTLET: RECEPTACLE, DUPLEX WEATHER PROOF, WALL. 15A., 125V., 2P., 3W., P&S NO. (1591F)(1591).
- TELEPHONE/DATA SYSTEM: WALL OUTLET WITH 1/2"C. STUBBED TO ABOVE ACCESSIBLE CEILING WITH CAT 6E CABLE. TO PATCH PANEL UNLESS OTHERWISE CIRCUITED.
- $ WALL SWITCH: A.C. TYPE, 1-POLE, 20A., 125/277V., HUBBELL #1221.
- 3$ WALL SWITCH: A.C. TYPE, 3-WAY, 20A., 125/277V., HUBBELL #1223.
- D$ WALL SWITCH: DIMMER
- OS$ WALL SWITCH: DUAL TECHNOLOGY OCCUPANCY SENSOR, WATT STOPPER DSW-301
- OD$ WALL SWITCH: DUAL TECHNOLOGY OCCUPANCY/DIMMER SENSOR
- OC CEILING SENSOR: DUAL TECHNOLOGY OCCUPANCY SENSOR
- FUSED DISCONNECT SWITCH.
- CIRCUIT BREAKER.
- T$ TOGGLE TYPE MOTOR SWITCH LESS OVERLOAD PROTECTION.
- **CEILING OUTLET: SURFACE OR STEMMED LUMINAIRE SINGLE OR CONTINUOUS LENGTHS AS SHOWN.**
- **WALL SWITCH: 100W SPEAKER VOLUME CONTROL. OSD SVC100**
- **CEILING SPEAKER: RECESSED MOUNTED MONOPRICE 44948**



1 DETAIL INTERCONNECT

SCALE: NONE

NOTES:
1. COORDINATE ALL WIRING REQUIREMENTS WITH SECURITY CONTRACTOR, AV CONTRACTOR AND SPECIFICATIONS.



2 DETAIL - TYPICAL POLE BASE FOR POLE MOUNTED LUMINAIRES

SCALE: NONE

LUMINAIRE SCHEDULE

MARK	LAMPS (SEE NOTES) TYPE	WATTS	COLOR	DESCRIPTION
FGA	LED	24	35	LAY-IN FIXTURE 2' X 4' LED LAMP. DAYBRITE # 2FPZ-38L-835-4-DS-UNV-DIM
FGB	LED	61	35	LAY-IN FIXTURE 2' X 4' INDIGO CLEAN FIXTURE KENALL # MGT24-G-FA-23-55C-35K8-DIM1-DV
FSA	LED	33	35	LOW PROFILE WRAP LED FIXTURE LED. DAYBRITE # FSWEZ440L840-UNV
FSB	LED	272	35	8' HIGH BAY H.E. WILLIAMS # GH-2-L360-840-FA-DIM-UNV
FSC	LED	31	35	4' ENCLOSED AND GASKETED DAYBRITE # FSX440L840-UNV-DIM
FSD	LED	42	35	6' LINEAR PENDANT FIXTURE FINELITE # HP-4-P-ID-6ft-S-S-835 -TG-F-120
FGB	LED	36	35	4' RECESSED OVER SINK FINELITE # HP-2-R-4ft-S-835
FGC	LED	73	35	8' RECESSED RESTROOM FINELITE # HP-2-R-8ft-S-835
FGD	LED	82	35	9' RECESSED RESTROOM FINELITE # HP-2-R-9ft-S-835
FGC	LED	73	35	8' RECESSED EXTERIOR WET LOCATRION FINELITE # HP-4WL-D-8ft-S-835-F-96-120-SC
SHA	LED	20	35	6" SQUARE RECESSED SHOWER LED WET LOCATION 3G LIGHTING # 3G-DL40SF-15-H90-35-40D-UNV-DIM-WT-W-SH-SF
DLB	LED	20	35	6" SQUARE RECESSED DOWN LIGHT RESTROOM LIGHTOLIER # P6SDL15935WCLZ10U
DLE	LED			OWNER PROVIDED. PROVIDE JUNCTION BOX WITH SLACK CONDUCTOR.
STA	LED	3	30	LED STEP LIGHT FORMS LEDSTEP001D BK MP LIGHTING L46 3W WXXH MK1 XX
WLA	LED	35	30	EXTERIOR WALL LIGHT (FRONT) TMS LIGHTING ALPINE PN:AL395 0-48-35LED-UD-35K-120 CAMMAN LIGHTING OW218-24-MOD
WLB	LED	5	30	EXTERIOR WALL LIGHT ABOVE DOORS GARDCO # 101L-16L-200-NW-G2-3
WLC	LED	10	30	WALL MOUNTED LED ARCHITECTURAL OUTDOOR FIXTURE GARDCO # 101L-16L-400-NW-G2-3
SL1	LED	24	30	WALL MOUNTED 36" LED ASYMMETRIC WALL WASH FIXTURE INSIGHT LIGHTING #E5X-MO-35K-UL-EXA-12-NO-TBL-IVL-HCRI
UCA	LED	18	35	UNDERCONTER LIGHT LITHONIA RAZ-24IN-30K-90CRI SSLSOL UNLXL-2-3K
EXA	LED	.71	X	UNIVERSAL MOUNT LED EXIT LIGHT LITHONIA LHQM S W 3 R 120/277 EL N SD CHLORIDE CLONRW
FLG	LED	18	30	FLAG POLE LIGHT LUMENPULSE LQL 120 35K M SK XX DIM INSIGH PS9-MO-35K-40-STKMOD-120-DIM-XX
PLA	LED	131	30	SINGLE POLE MOUNTED EXTERIOR FIXTURE MOUNTED ON 25', 4" ROUND POLE GARDCO OPF-L-A20-840-T2M-AR1-UNV-DZ
PLB	LED	131	30	SINGLE POLE MOUNTED EXTERIOR FIXTURE MOUNTED ON 25', 4" ROUND POLE GARDCO OPF-L-A20-840-T4M-AR1-UNV-DZ
PLC	LED	131	30	DUAL POLE MOUNTED EXTERIOR FIXTURE MOUNTED ON 25', 4" ROUND POLE GARDCO OPF-L-A20-840-T5W-AR1-UNV-DZ
TWA	LED	48	30	12FT LED TOWER ASYMMETRIC UP LIGHT WESTERN FLORIDA LIGHTING ALS50T-ASM-BK-3K-4W-0-10V-HO-WET-120V-14 KELVIX BTLX X XXX PWM X X AA XX NA

LUMINAIRE SCHEDULE NOTES

1. LED LAMPS PROVIDED WITH FIXTURES.
2. FURNISH PROPER LAMP FOR REFLECTOR ASSEMBLY SPECIFIED AS RECOMMENDED BY LUMINAIRE MANUFACTURER.
3. CONTRACTOR SHALL VERIFY EXACT TYPE CEILINGS BEING FURNISHED AND SUPPLY BASIC LUMINAIRES SPECIFIED IN APPROPRIATE CONFIGURATION FOR CEILING TO BE FURNISHED.
4. FURNISH LUMINAIRES WITH JOINING PLATES, END CAPS, CANOPIES, MOUNTING HARDWARE, ETC., AS REQUIRED FOR COMPLETE INSTALLATION.
5. LUMINAIRE MOUNTING AND SUSPENSION SHALL BE AS APPROVED BY ENGINEER AND NO COMBUSTIBLE MATERIALS SHALL BE USED.
6. ALL NON LAY-IN LIGHTING FIXTURES SHALL BE MOUNTED PER ARCHITECTURAL PLANS MAINTAIN UNIFORM MOUNTING HEIGHT OF ALL LUMINAIRES THROUGH EACH AREA.
7. COLOR OF EXIT LIGHTS SHALL BE COMPLIANT WITH ALL LOCAL CODES AND AUTHORITIES.

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ALABAMA REGISTERED PROFESSIONAL ENGINEER NO. 19622 — 10/31/24

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OCTOBER 31, 2024

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SHEET TITLE
LEGEND & NOTES ELECTRICAL

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1917

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E0.01

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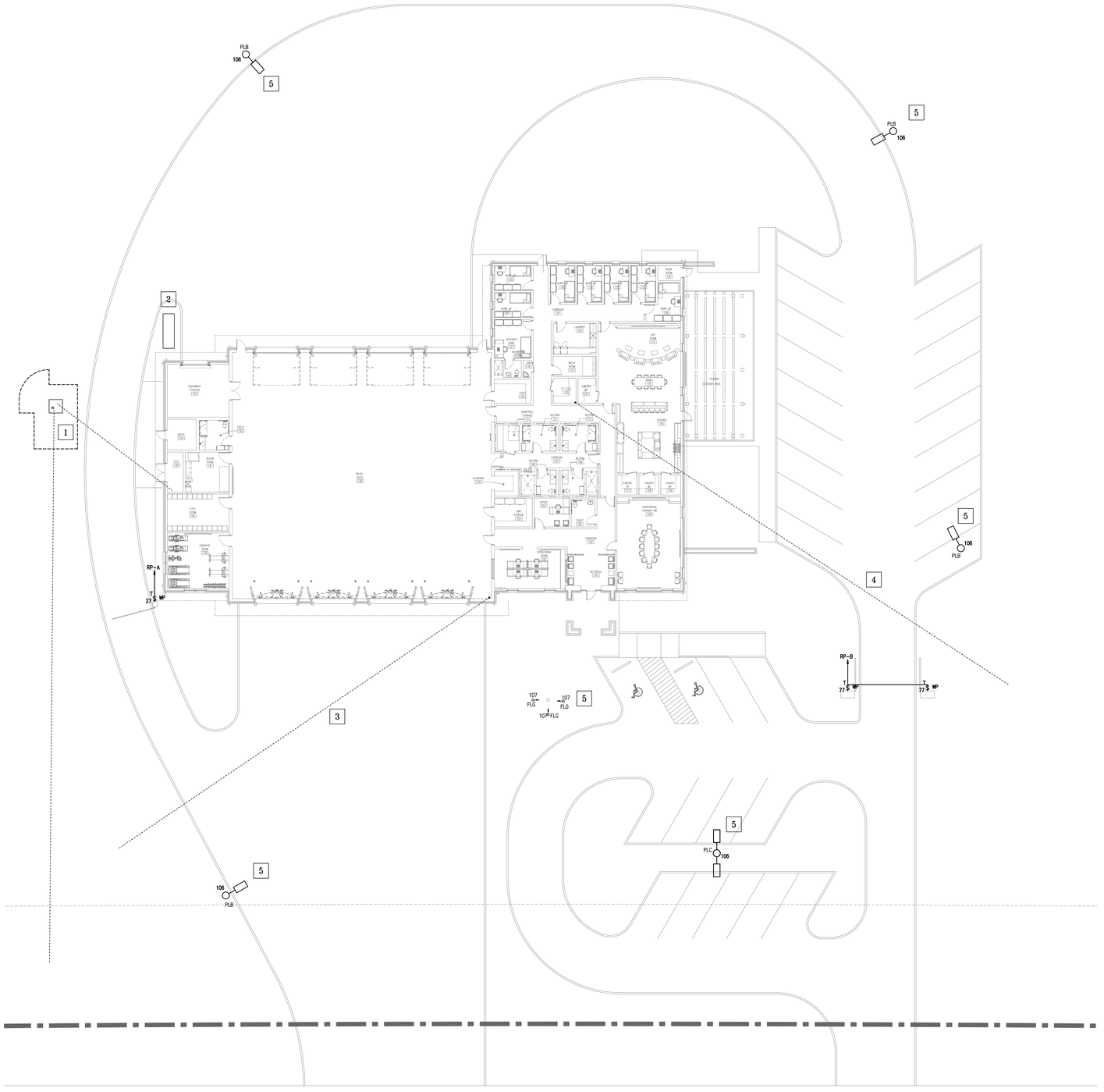

SITE PLAN - ELECTRICAL

KEYED NOTES

1. PROVIDE NEW UTILITY TRANSFORMER PAD. COORDINATE ALL ASPECTS AND REQUIREMENTS INCLUDING METER WITH UTILITY COMPANY.
2. PROVIDE NEW EMERGENCY GENERATOR. SEE ONE-LINE AND SPECIFICATIONS.
3. PROVIDE 3" PVC CONDUIT FROM TRAFFIC LIGHT CONTROLLER STUBBED IN TRUCK BAY FOR SIGNAL CONTROL WIRING. COORDINATE ALL ASPECTS WITH CIVIL DRAWINGS AND TRAFFIC ENGINEER.
4. PROVIDE 3" PVC CONDUIT STUBBED OUT FOR DATA WIRING ACCESS AND TO DATA COMPANY UNDERGROUND CONNECTION BOX. COORDINATE ALL ASPECTS WITH CIVIL DRAWINGS AND DATA PROVIDER.
5. ALL EXTERIOR LIGHTING CIRCUITS SHALL BE CONTROLLED THRU TIME CLOCK. SEE LIGHTING PLAN.

01/1.00 FLOOR PLAN
1/16" = 1'-0"

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SITE ELECTRICAL

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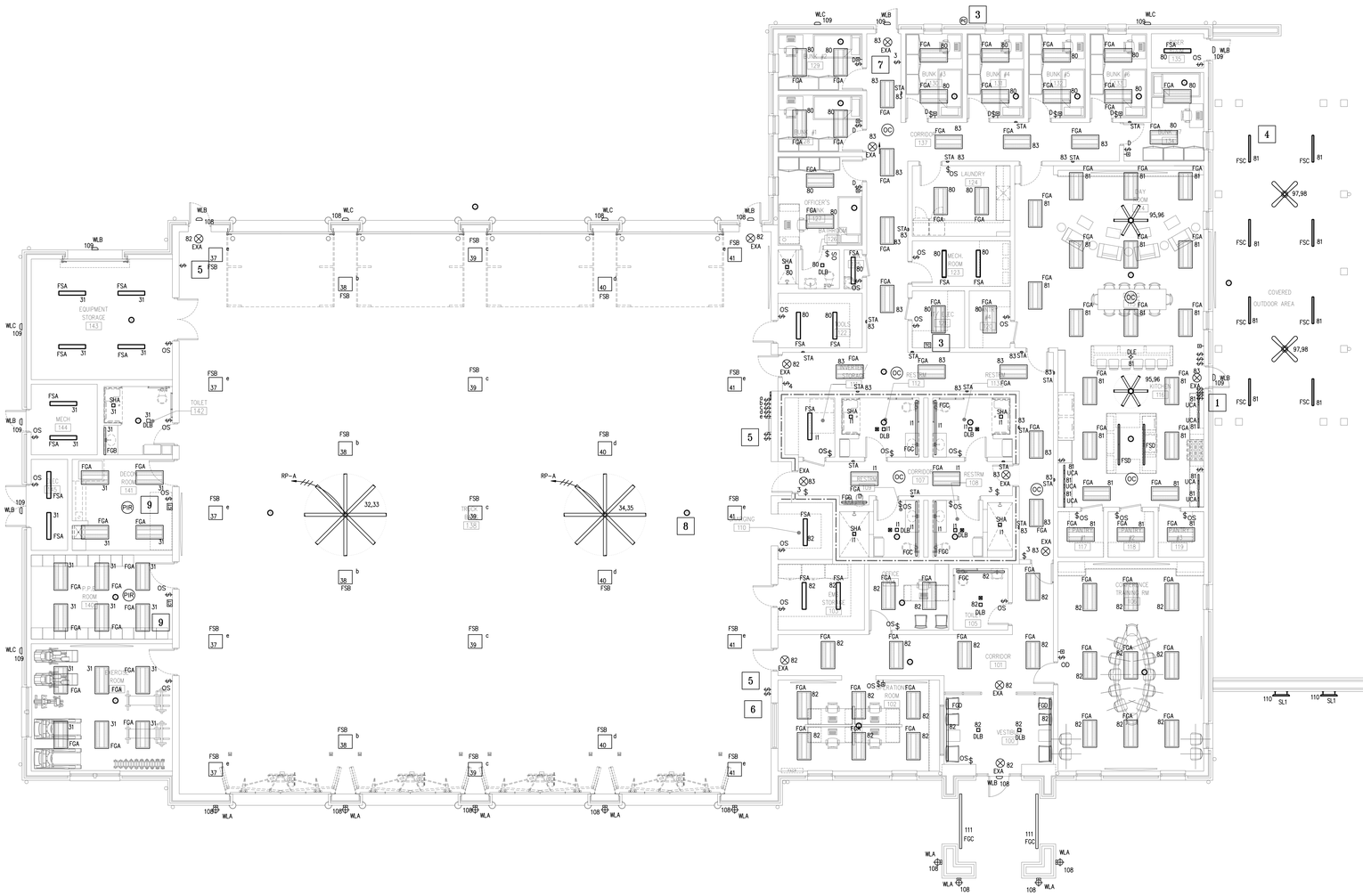
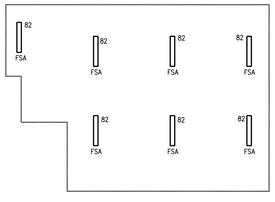
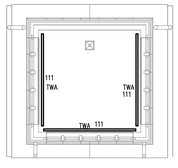


FIRST FLOOR PLAN - LIGHTING



MEZZANINE LEVEL - LIGHTING



TOWER LEVEL - LIGHTING

KEYED NOTES

1. FAN CONTROLLER. PROVIDE INTERCONNECT WIRING BETWEEN FAN AND CONTROLLER AS REQUIRED. COORDINATE ALL ASPECTS WITH FAN MANUFACTURE AND MECHANICAL DRAWINGS.
2. COORDINATE ALL PENETRATIONS INTO STORM SHELTER AREA WITH ARCHITECTURAL.
3. ALL EXTERIOR LIGHTING CIRCUITS SHALL BE CONTROLLED THRU A SUNSET 24 HOUR/7 DAY ASTRONOMIC DIGITAL 2 CHANNEL TIMER. TIME TORK/NSI DGLC200A-NC WITH PHOTOCELL. LOCATE PHOTOCELL ON EXTERIOR OF BUILDING. COORDINATE LOCATION AND DIRECTION FOR PROPER OPERATION.
4. MOUNT FIXTURE ON BOTTOM OF CANOPY BEAM. RUN CONDUIT INSIDE CENTER BEAM TO CROSS BEAM. DO NOT PENETRATE CANOPY ROOF OR ANY DRAIN BEAM. CENTER BEAM IS SUPPORT ONLY. RUN CONDUIT CONCEALED INSIDE CENTER BEAM TO CROSS BEAMS THEN TO FIXTURES. COORDINATE ALL ASPECTS WITH CANOPY MANUFACTURER.
5. PROVIDE CONTROLS FOR DOOR OPENERS. COORDINATE ALL ASPECTS WITH DOOR SUPPLIER.
6. PROVIDE CONTROLS FOR TRAFFIC LIGHT. COORDINATE ALL ASPECTS WITH CIVIL/TRAFFIC LIGHT INSTALLER.
7. PROVIDE 3WAY SWITCHING FOR OVERHEAD LAY-IN FIXTURES. WHEN SWITCH IS OFF THE MOTION SENSING SHOULD NOT BE OPERATIONAL. WHEN SWITCH IS ON THE MOTION SENSORS SHOULD BE ACTIVE. LOW WALL LIGHTS OPERATE ALL OF THE TIME.
8. PROVIDE CEILING MOUNTED SPEAKER.
9. ALTERNATE NO.1: PROVIDE INDIGO CLEAN FSB TYPE FIXTURES IN LIEU FSA FIXTURES. PROVIDE INDIGO-CLEAN ROOM CONTROLLER SYSTEM IC150 SERIES WITH ROOM LEVEL DISINFECTION MODE CONTROL AND INFRARED OCCUPANCY DETECTION.

01 / 1.01 FLOOR PLAN
1/8" = 1'-0"

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ALABAMA REGISTERED NO. 19022 PROFESSIONAL ENGINEER
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SHEET TITLE
LIGHTING ELECTRICAL

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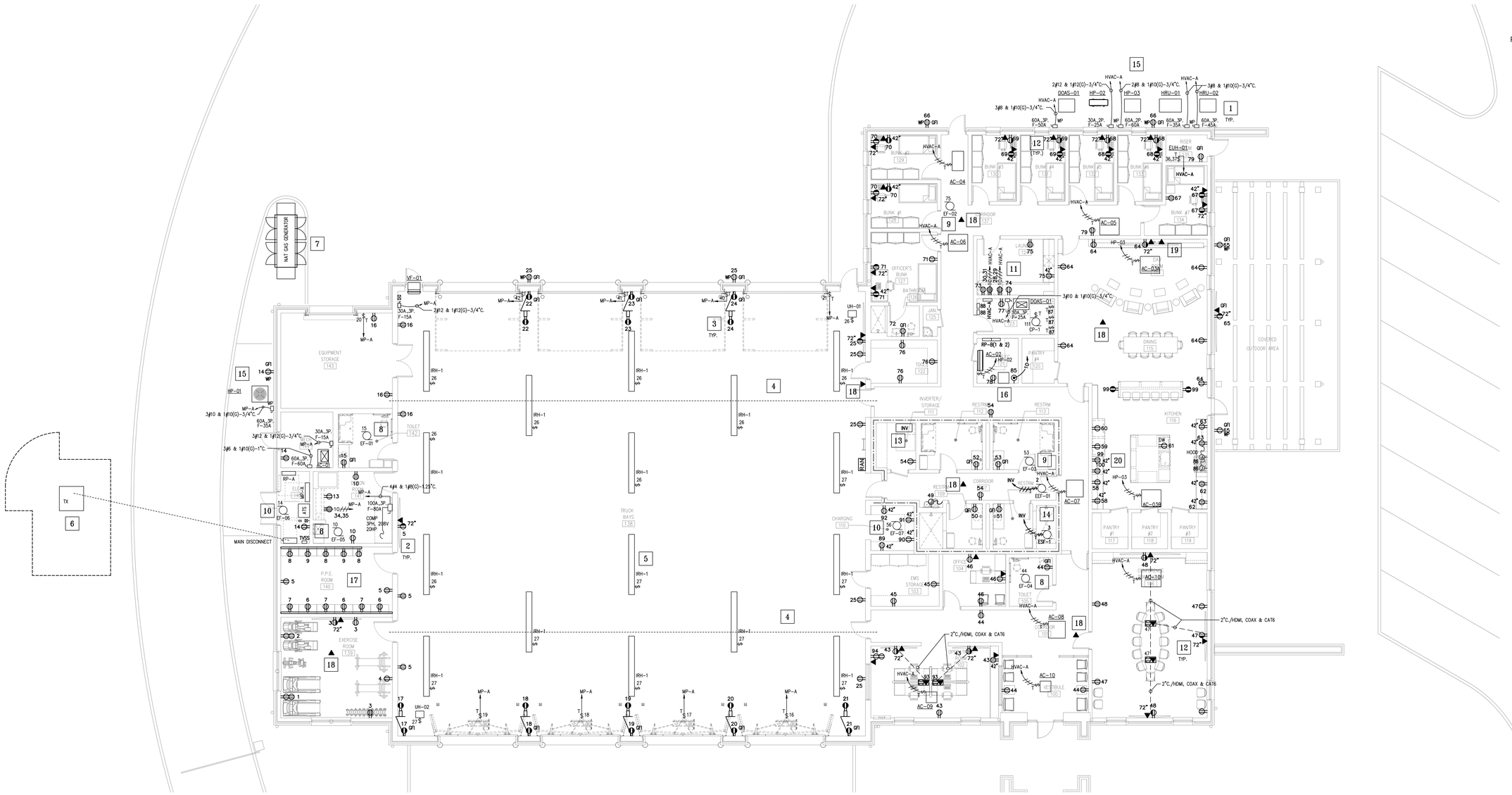

FIRST FLOOR PLAN - POWER

KEYED NOTES

1. COORDINATE ALL ASPECTS WITH MECHANICAL DRAWINGS AND SPECIFICATIONS.
2. PROVIDE 1.5" CONDUIT TO RECESSED BOX BEHIND EACH TV STUBBED ABOVE CEILING AND TERMINATED WITH SMOOTH BUSHING.
3. PROVIDE INDUSTRIAL CORD REEL WITH 20A OUTLET. REELCRAFT MODEL H-7122. MOUNT AT 6'AFF.
4. PROVIDE 4" CONDUIT ACROSS TRUCK BAY STUBBED OUT ABOVE CEILING FOR FUTURE USE. PROVIDE PULL STRING AND TERMINATE WITH SMOOTH BUSHING ON EACH END.
5. PROVIDE CONTROL POWER TO GAS HEATERS. COORDINATE ALL ASPECTS WITH MECHANICAL.
6. PROVIDE NEW UTILITY TRANSFORMER PAD. COORDINATE ALL ASPECTS AND REQUIREMENTS INCLUDING METER WITH UTILITY COMPANY.
7. PROVIDE NEW EMERGENCY GENERATOR. SEE ONE-LINE AND SPECIFICATIONS.
8. EXHAUST FAN CONTROLLED THRU LIGHT SWITCH/OCCUPANCY SENSOR. COORDINATE ALL ASPECTS WITH MECHANICAL.
9. EXHAUST FAN CONTROLLED THRU TIME CLOCK. COORDINATE ALL ASPECTS WITH MECHANICAL.
10. EXHAUST FAN CONTROLLED THRU THERMOSTAT. COORDINATE ALL ASPECTS WITH MECHANICAL.
11. PROVIDE OUTLETS FOR STACKABLE WASHER AND DRYER. COORDINATE EXACT OUTLET LOCATIONS.
12. EACH TV OUTLET/BOX SHALL HAVE 1-COAX AND 1-CAT6 CABLE TERMINATED AT BOX AND RAN TO TEL/ELEC ROOM AND TERMINATED ON PATCH PANEL LOCATED IN THE DATA RACK.
13. POWER INVERTER, SEE ONELINE DIAGRAM.
14. EXHAUST FAN CONTROLLED THRU WALL MOUNTED SPEED CONTROLLER. COORDINATE ALL ASPECTS WITH MECHANICAL.
15. COORDINATE ALL FUSE AND FEEDER SIZES WITH ACTUAL UNIT NAMEPLATES. COORDINATE ROUTING OF ALL FEEDERS/ROOF PENETRATIONS WITH MECHANICAL AND ARCHITECTURAL. ROUTE FEEDER TO UNIT WITH MECHANICAL PIPING.
16. PROVIDE DATA RACK AND RECEPTACLE. SEE SPECIFICATIONS. COORDINATE OUTLET WITH UPS BEING SUPPLIED.
17. PROVIDE WIREMOLD RACEWAY WITH OUTLETS MOUNTED ABOVE HANGING RACKS. COORDINATE EXACT HEIGHT WITH ARCHITECTURAL.
18. PROVIDE JBOX ABOVE CEILING WITH 6' SLACK CAT-6 CABLE FROM PATCH PANEL FOR WIFI ANTENNA PROVIDED BY OTHERS.
19. PROVIDE 2" CONDUIT TO OUTLET BOX IN WALL BELOW TV LOCATION WITH 1 HDMI.
20. OUTLETS MOUNTED IN APPLIANCE CABINET. COORDINATE LOCATION WITH CABINETS.

01 / 2.01 FLOOR PLAN
1/8" = 1'-0"

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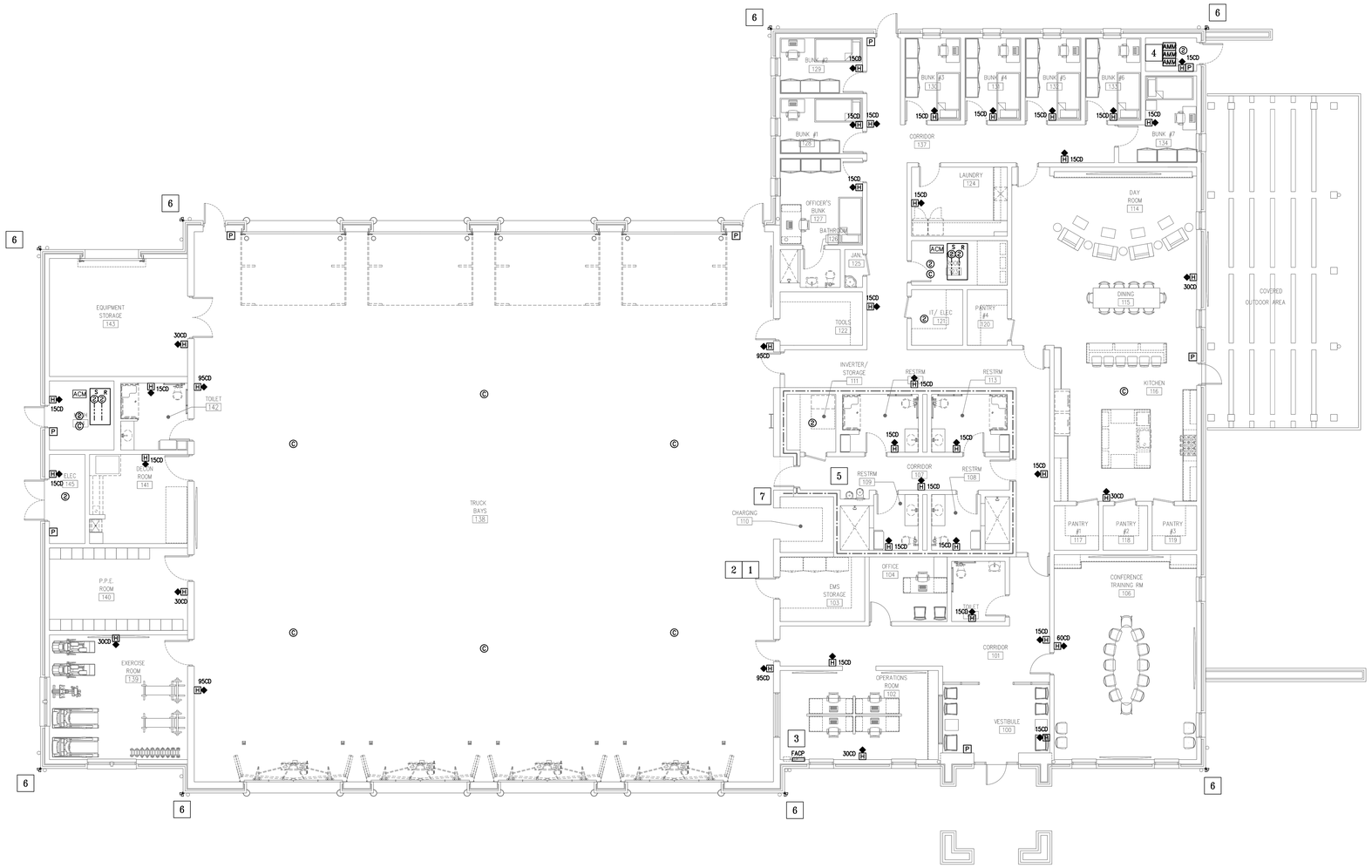

FIRST FLOOR PLAN - FIRE ALARM/CCTV

GENERAL NOTES

1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL TO THE SYSTEM DESIGN ENGINEER. SUBMITTAL TO INCLUDE ALL PRODUCT DATA, FLOOR PLANS, WIRING, ETC.
2. NEW FIRE ALARM SYSTEM TO BE INSTALLED, TESTED, CERTIFIED, AND ACCEPTED BY OWNER / ENGINEER / AHJ PRIOR TO DEACTIVATING AND REMOVING EXISTING FIRE ALARM SYSTEM.
3. PROVIDE ALL ALARM, POWER AND NOTIFICATION CIRCUITRY AS REQUIRED. SEE WIRING LEGEND.
4. SEE SPECIFICATIONS FOR CIRCUIT AND CIRCUIT LOADING REQUIREMENTS. ALL CIRCUITS SHALL HAVE A MINIMUM OF 25% SPARE CAPACITY ON CIRCUIT AND SUPPLY COMPONENTS.
5. PROVIDE CONDUIT SEAL IN ALL CONDUITS GOING FROM CONDITIONED SPACES TO UNCONDITIONED SPACES OR OUTSIDE ETC.

KEYED NOTES

1. ALL NEW SPOT SMOKE DETECTORS, DUCT SMOKE DETECTOR, MONITOR MODULES AND CONTROL MODULES SHALL BE MANUFACTURED BY THE NEW FIRE ALARM PANEL MANUFACTURER AND BE UL LISTED WITH THE FIRE ALARM PANEL.
2. PROVIDE AUDIBILITY SAMPLE TESTING, PER NFPA, IN EVERY SPACE THROUGHOUT FACILITY AND SUBMIT TEST RESULTS TO ENGINEER FOR REVIEW AND APPROVAL 30 DAYS PRIOR TO FINAL INSPECTION.
3. NEW FIRE ALARM CONTROL PANEL. PROVIDE DOCUMENTATION CABINET AS REQUIRED BY NFPA 72 CHAPTER 7.7.2, 2016 EDITION. SEE SPECIFICATIONS. COORDINATE EXACT LOCATION WITH AHJ.
4. PROVIDE ADDRESSABLE MONITOR MODULE TO MONITOR EACH SPRINKLER CONTROL VALVE, FLOW SWITCH AND TAMPER SWITCH.
5. COORDINATE ALL PENETRATIONS INTO STORM SHELTER AREA WITH ARCHITECTURAL.
6. PROVIDE JUNCTION BOX FOR CCTV CAMERA AT LOCATIONS SHOWN. PROVIDE CAT 6 CABLE FROM J-BOX TO IT ROOM DATA RACK PATCH PANEL.
7. PROVIDE A PCTEL/MFBW7463 746-869 MHZ 3DB BASE STATION OMNI ANTENNA WITH N-FEMALE CONNECTOR. PROVIDE MMK4 HEAVY DUTY MAST MOUNT WITH TWO MBSWM WALL MOUNTING BRACKETS AND MMK12 HEAVY DUTY MOUNTING BRACKET. MOUNT ON TRUCK BAY WALL. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE ULTRA LOW LOSS ANTENNA CABLE WITH N CONNECTORS FROM ANTENNA LOCATION TO IT CLOSET.

01 / 3.01 FLOOR PLAN
1/8" = 1'-0"

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FIRE ALARM/CCTV ELECTRICAL

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E3.01

FIRE STATION #2

MP–A

CKT.	CIRCUIT DESCRIPTION	BKR. TRIP	P	LOAD (AMPS) A	B	C	LOAD (AMPS) A	B	C	BKR. TRIP	P	CIRCUIT DESCRIPTION	CKT.
1	AC–01	15	3	7			193			250	3	HVAC–A	22
2					7			180					23
3						7			190				24
4	AC–01(HEAT)	60	3	40			60			200	3	RP–A	25
5					40			55					26
6						40			47				27
7	HP–01	30	3	14			88			200	3	RP–B (SECT 1 & 2)	28
8					14			73					29
9						14			61				30
10	COMPRESSOR	80	3	59						50	1	PROVISION	31
11					59					50	1	PROVISION	32
12						59			17	50	1	INVERTER PANEL	33
13	VF–01	15	3	5					24	50	1	PROVISION	34
14					5			24		30	2	DRYER	35
15						5			24				36
16	ROLL UP DOOR	20	1	6						30	3	GENERATOR ANCILIARY POWER	37
17	ROLL UP DOOR	20	1		6								38
18	ROLL UP DOOR	20	1			6							39
19	ROLL UP DOOR	20	1	6			6			20	1	ROLL UP DOOR	40
20	ROLL UP DOOR	20	1		6			6		20	1	ROLL UP DOOR	41
21	ROLL UP DOOR	20	1			6			6	20	1	ROLL UP DOOR	42

N G

VOLTAGE: 120/208V.	**CONNECTED LOAD – PHASE A:** 484	**MEASURED LOAD – PHASE A:**
SERVICE: 3PH.,4W.	**CONNECTED LOAD – PHASE B:** 482	**MEASURED LOAD – PHASE B:**
MAIN BREAKER 600A.	**CONNECTED LOAD – PHASE C:** 458	**MEASURED LOAD – PHASE C:**
AIC **RATING:** 22K	**CALCULATED NEUTRAL CURRENT:** 0	**MEASURED NEUTRAL CURRENT:**
PANEL TYPE: BQL		
COLUMN REFERENCE: N/A		**LAST ISSUE DATE:**
NOTES:		

HVAC–A

CKT.	CIRCUIT DESCRIPTION	BKR. TRIP	P	LOAD (AMPS) A	B	C	LOAD (AMPS) A	B	C	BKR. TRIP	P	CIRCUIT DESCRIPTION	CKT.
1	DOAS–01	15	3	5			2			15	2	AC–10	22
2					5			2					23
3						5				15	2	SPARE	24
4	HRU–01	50	3	26									25
5					26			24		30	2	DRYER	26
6						26			24				27
7	HRU–02	70	3	35						30	2	SPARE	28
8					35								29
9						35			24	30	2	DRYER	30
10	AC–04	15	2	2			24						31
11					2			9		25	2	HP–02	32
12	AC–05	15	2			2			9				33
13				2			36			60	2	HP–03	34
14	AC–06	15	2		2			36					35
15						2			24	30	2	EUH–01	36
16	AC–07	15	2	2			24						37
17					2			33		50	3	DOAS–CU	38
18	AC–08	15	2			2			33				39
19				2			33						40
20	AC–09	15	2		4					50	1	PROVISION	41
21						4				50	1	PROVISION	42

N G

VOLTAGE: 120/208V.	**CONNECTED LOAD – PHASE A:** 193	**MEASURED LOAD – PHASE A:**
SERVICE: 3PH.,4W.	**CONNECTED LOAD – PHASE B:** 180	**MEASURED LOAD – PHASE B:**
MAIN BREAKER: 250A.	**CONNECTED LOAD – PHASE C:** 190	**MEASURED LOAD – PHASE C:**
AIC **RATING:** 22K	**CALCULATED NEUTRAL CURRENT:**	**MEASURED NEUTRAL CURRENT:**
PANEL TYPE: BQL		
COLUMN REFERENCE: N/A		**LAST ISSUE DATE:**
NOTES:		

RP–A

CKT.	CIRCUIT DESCRIPTION	BKR. TRIP	P	LOAD (AMPS) A	B	C	LOAD (AMPS) A	B	C	BKR. TRIP	P	CIRCUIT DESCRIPTION	CKT.
1	RECEPTACLES 139	20	1	3.3			4			20	1	RECEPTACLES 138 DOOR REEL	22
2	RECEPTACLES 139	20	1		3.3			4		20	1	RECEPTACLES 138 DOOR REEL	23
3	RECEPTACLES 139	20	1			5			4	20	1	RECEPTACLES 138 DOOR REEL	24
4	RECEPTACLES 139	20	1	2			7			20	1	RECEPTACLES 138	25
5	RECEPTACLES 138	20	1		5			2		20	1	IR HEATER CONTROL POWER	26
6	RECEPTACLES 140	20	1			5			2	20	1	IR HEATER CONTROL POWER	27
7	RECEPTACLES 140	20	1	5						20	1	SPARE	28
8	RECEPTACLES 140	20	1		5					20	1	SPARE	29
9	RECEPTACLES 140	20	1			3.3				20	1	SPARE	30
10	RECEPTACLES 141	20	1	2						20	1	SPARE	31
11	SPARE	20	1					7		20	2	TRUCK BAY FAN	32
12	SPARE	20	1						7				33
13	RECEPTACLES 141	20	1	2			7			20	2	TRUCK BAY FAN	34
14	RECEPTACLES 145	20	1	3.3				7					35
15	RECEPTACLES 142	20	1		2					20	1	SPARE	36
16	RECEPTACLES 143	20	1	5			11			20	1	TRUCK BAY LIGHTS	37
17	RECEPTACLES 138 DOOR REEL	20	1		4			9		20	1	TRUCK BAY LIGHTS	38
18	RECEPTACLES 138 DOOR REEL	20	1			4			11	20	1	TRUCK BAY LIGHTS	39
19	RECEPTACLES 138 DOOR REEL	20	1	4			9			20	1	TRUCK BAY LIGHTS	40
20	RECEPTACLES 138 DOOR REEL	20	1		4			11		20	1	TRUCK BAY LIGHTS	41
21	RECEPTACLES 138 DOOR REEL	20	1			4				20	1	SPARE	42

N G

VOLTAGE: 120/208V.	**CONNECTED LOAD – PHASE A:** 60	**MEASURED LOAD – PHASE A:**
SERVICE: 3PH.,4W.	**CONNECTED LOAD – PHASE B:** 55	**MEASURED LOAD – PHASE B:**
MAIN BREAKER: 200A.	**CONNECTED LOAD – PHASE C:** 47	**MEASURED LOAD – PHASE C:**
AIC **RATING:** 22K	**CALCULATED NEUTRAL CURRENT:** 0	**MEASURED NEUTRAL CURRENT:**
PANEL TYPE: BQL		
COLUMN REFERENCE: N/A		**LAST ISSUE DATE:**
NOTES:		

RP–B (SECT 1)

CKT.	CIRCUIT DESCRIPTION	BKR. TRIP	P	LOAD (AMPS) A	B	C	LOAD (AMPS) A	B	C	BKR. TRIP	P	CIRCUIT DESCRIPTION	CKT.
43	RECEPTACLES 102	20	1	6.6			3.3			20	1	RECEPTACLES 114	64
44	RECEPTACLES 100 & 105	20	1		5			6		20	1	RECEPTACLES OUTDOOR	65
45	RECEPTACLES 103	20	1			3.3			5	20	1	RECEPTACLES OUTDOOR	66
46	RECEPTACLES 104	20	1	5			5			20	1	RECEPTACLES 134	67
47	RECEPTACLES 106	20	1		6.6			6.6		20	1	RECEPTACLES 133 & 132	68
48	RECEPTACLES 106	20	1			6.6			6.6	20	1	RECEPTACLES 130 & 131	69
49	WATER COOLER	20	1	6			6.6			20	1	RECEPTACLES 129 & 128	70
50	RECEPTACLES RESTROOM 109	20	1		2			3.3		20	1	RECEPTACLES 127	71
51	RECEPTACLES RESTROOM 108	20	1			2			2	20	1	RECEPTACLES RESTROOM 126	72
52	RECEPTACLES RESTROOM 112	20	1	2			5			20	1	RECEPTACLES WASHER	73
53	RECEPTACLES RESTROOM 113	20	1		2			5		20	1	RECEPTACLES WASHER	74
54	RECEPTACLES 107 & 111	20	1			2			3.3	20	1	RECEPTACLES 124	75
55	SPARE	20	1				5			20	1	RECEPTACLES 122	76
56	SPARE	20	1					2		20	1	RECEPTACLES 123	77
57	SPARE	20	1						2	20	1	RECEPTACLES 121	78
58	RECEPTACLES 116	20	1	3.3			2			20	1	RECEPTACLES 135 & 137	79
59	RECEPTACLES REFRIGERATOR	20.	1	3.3						20	1	LIGHTS	80
60	RECEPTACLES REFRIGERATOR	20	1		3.3					20	1	LIGHTS	81
61	RECEPTACLES DISHWASHER	20	1	3.3						20	1	LIGHTS	82
62	RECEPTACLES 116	20	1		3.3					20	1	LIGHTS	83
63	RECEPTACLES 116	20	1			3.3				20	1	SPARE	84

N G

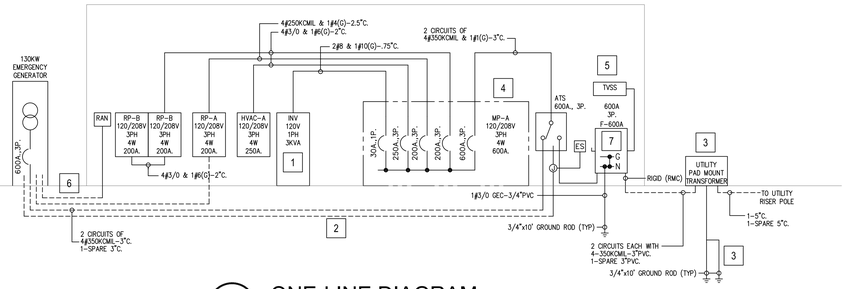
VOLTAGE: 120/208V.	**CONNECTED LOAD – PHASE A:** 53	**MEASURED LOAD – PHASE A:**
SERVICE: 3PH.,4W.	**CONNECTED LOAD – PHASE B:** 47	**MEASURED LOAD – PHASE B:**
MAIN BREAKER: 200A.	**CONNECTED LOAD – PHASE C:** 40	**MEASURED LOAD – PHASE C:**
AIC **RATING:** 22K	**CALCULATED NEUTRAL CURRENT:**	**MEASURED NEUTRAL CURRENT:**
PANEL TYPE: BQL		
COLUMN REFERENCE: N/A		**LAST ISSUE DATE:**
NOTES: 1. PROVIDE WITH FEED THRU LUGS		

RP–B (SECT 2)

CKT.	CIRCUIT DESCRIPTION	BKR. TRIP	P	LOAD (AMPS) A	B	C	LOAD (AMPS) A	B	C	BKR. TRIP	P	CIRCUIT DESCRIPTION	CKT.
85	DATA RACK OUTLET	30	1	10						7			20	1	OUTDOOR POLE LIGHTS	106
86	RANGE HOOD/RANGE CONTROL POWER	20	1		4						1		20	1	FLAG POLE LIGHTS	107
87	WATER HEATER CONTROL POWER	20	1			2						3	20	1	EXTERIOR WALL LIGHTS	108
88	EF–3 TIME CLOCK/FRF CONTROL POWER	20	1	3						2			20	1	EXTERIOR WALL LIGHTS	109
89	RECEPTACLE 110	20	1		4						1		20	1	SIGN LIGHTS	110
90	RECEPTACLE 110	20	1			4						3	20	1	ENTRANCE LIGHTS	111
91	RECEPTACLE 110	20	1	4									20	1	CP–1	112
92	RECEPTACLE 110	20	1		4								20	1	SPARE	113
93	RECEPTACLE 102	20	1			3							20	1	SPARE	114
94	RECEPTACLE 102	20	1	5									20	1	SPARE	115
95	CF–03 & CF–04 2	20			8								20	1	SPARE	116
96						8							20	1	SPARE	117
97	CF–05 & CF–06	20	2	6									20	1	SPARE	118
98					6								20	1	SPARE	119
99	RECEPTRACLE APPLIANCE CABINET	20	1			2							20	1	SPARE	120
100	RECEPTRACLE APPLIANCE CABINET	20	1	2									20	1	SPARE	121
101	SPARE	20	1										20	1	SPARE	122
102	SAPRE	20	1										20	1	SPARE	123
103	SPARE	20	1										20	1	SPARE	124
104	SPARE	20	1										20	1	SPARE	125
105	SPARE	20	1										20	1	SPARE	126

N G

VOLTAGE: 120/208V.	**CONNECTED LOAD – PHASE A:** 35	**MEASURED LOAD – PHASE A:**
SERVICE: 3PH.,4W.	**CONNECTED LOAD – PHASE B:** 26	**MEASURED LOAD – PHASE B:**
MAIN BREAKER 200A	**CONNECTED LOAD – PHASE C:** 21	**MEASURED LOAD – PHASE C:**
AIC **RATING:** 22K	**CALCULATED NEUTRAL CURRENT:**	**MEASURED NEUTRAL CURRENT:**
PANEL TYPE: BQL		
COLUMN REFERENCE: N/A		**LAST ISSUE DATE:** DD–MON–YEAR
NOTES:		



1 ONE-LINE DIAGRAM
SCALE: NONE

KEYED NOTES

1. PROVIDE SINGLE PHASE EMERGENCY LIGHTING INVERTER SYSTEM TO PROVIDE 2HR BACKUP POWER FOR STORM SHELTER LIGHTING AND EXHAUST FANS. INVERTER TO INCLUDE A MINIMUM OF 12 MONITORED OUTPUT BREAKERS. PERFECT POWER PD3.0A0100N1 OR PRE–APPROVED EQUAL.

   INV LOAD SUMMARY: 120V., 1PH

1.	ESF–01 .15HP SOFT START	1.3A	140W
2.	EEF–01 .15HP SOFT START	1.3A	140W
3.	LIGHTS		413W
		TOTAL	693W

2. PROVIDE 12#14–1"C. FROM ATS TO GENERATOR FOR ALARMS AND START SIGNAL.
3. COORDINATE EXACT LOCATION AND ALL TRANSFORMER REQUIREMENTS INCLUDING PAD, GROUNDING, METERING, ETC. WITH UTILITY COMPANY.
4. PROVIDE SERVICE ENTRANCE RATED "CCB" TYPE FRONT ACCESSIBLE PANELBOARD. SEE SPECIFICATIONS.
5. PROVIDE TVSS ABB MODEL OVRHSP200120P3YPLUE4 OR PRE–APPROVED EQUIVALENT. KEEP LEAD LENGTHS SHORT (12" MAX) AND WITHOUT SHARP BENDS LESS THAN 8" RADIUS AND NO INCLUSIVE ANGLES LESS THAT 90 DEGREES ON CONDUCTOR LEADS.
6. PROVIDE RS485 FULLY ISOLATED TWISTED PAIR CABLE WITH SHIELD IN 1"C. COORDINATE ALL ASPECTS WITH GENERATOR SUPPLIER.
7. PROVIDE NEUTRAL TO GROUND BOND. SEE DETAIL.

Professional Engineering Groups, Inc.
7145 Happy Hollow Road / Suite 200
Trussville, AL 35173
Ph: 205-655-4237 - PEG NO. 24004

ISSUED FOR:
BID / CONSTRUCTION DOCUMENTS
OCTOBER 31, 2024

A NEW FACILITY FOR:
Pell City
FIRE STATION #2
2911 MARTIN STREET SOUTH
CROPWELL, AL 35054

City of Pell City
1905 1st Avenue North
Pell City, AL 35125
(205) 338-2244

CMH ARCHITECTS
1800 International Park Drive
Suite 300
Birmingham, Alabama 35243
205/969-2696
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REVISIONS

SHEET TITLE
LEGEND & NOTES ELECTRICAL

PROJECT NUMBER
1917

ISSUE DATE
10/31/2024

DRAWN BY
GM/JL

CHECKED BY
RH

SHEET NUMBER
E5.01

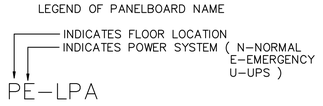
FIRE STATION #2

PLOT DATE: 11/18/2024, 1:41 PM

PE–LPA
277/480V.,3PH.,4W.

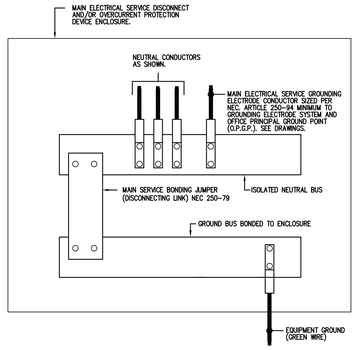
FED FROM DSA BREAKER PE–LPA

LEGEND OF PANELBOARD NAME



1 DETAIL PANELBOARD NAMEPLATE

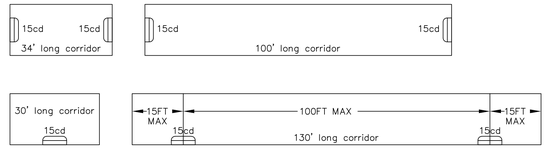
SCALE: NONE



2 DETAIL – TYPICAL CONNECTION OF MAIN ELECTRICAL SERVICE GROUNDING

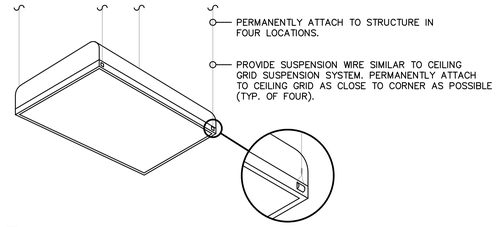
SCALE: NONE

CORRIDOR LENGTH IN FEET, 20 FT MAXIMUM WIDTH	MINIMUM QUANTITY OF 15 CD STROBES REQUIRED
0 – 30	1
31 – 130	2
131 – 230	3
231 – 330	4
331 – 430	5
431 – 530	6



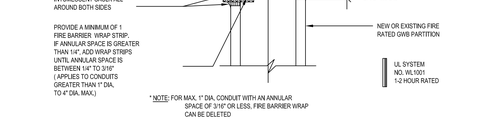
3 DETAIL STROBES IN CORRIDOR

SCALE: NONE



4 DETAIL MOUNTING FOR LAY–IN FIXTURE

SCALE: NONE



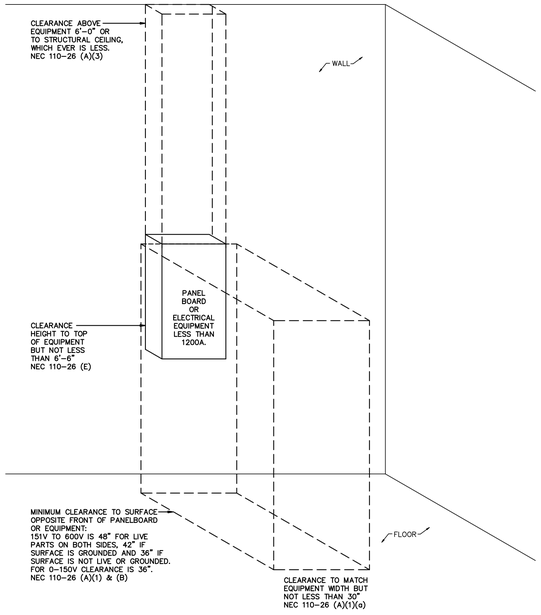
ESSENTIAL – WHITE LETTERS – RED FIELD
1/4" – 3/8" LETTERING

NORMAL – WHITE LETTERS – GREEN FIELD
1/4" – 3/8" LETTERING

STANDBY – BLACK LETTERS – YELLOW FIELD
1/4" – 3/8" LETTERING

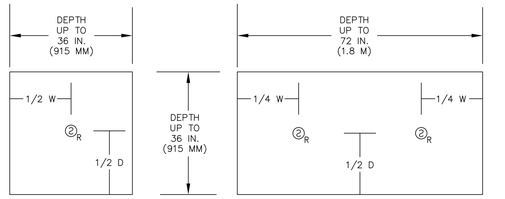
5 DETAIL NAMEPLATES AND NAME TAGS

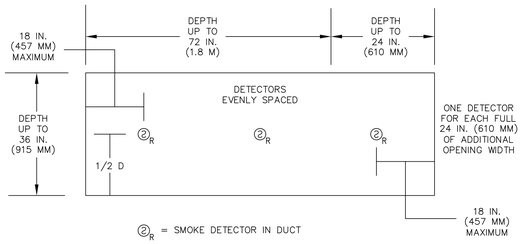
SCALE: NONE



6 DETAIL – WORKING CLEARANCE FOR 600V & LESS EQUIPMENT

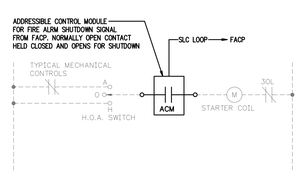
SCALE: NONE





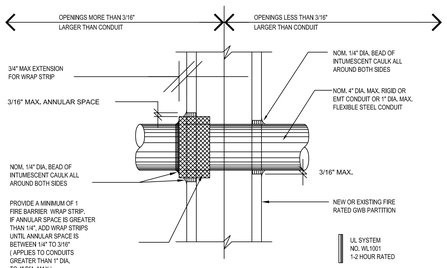
7 DETAIL DETECTOR(S) IN RETURN AIR SYSTEM

SCALE: NONE



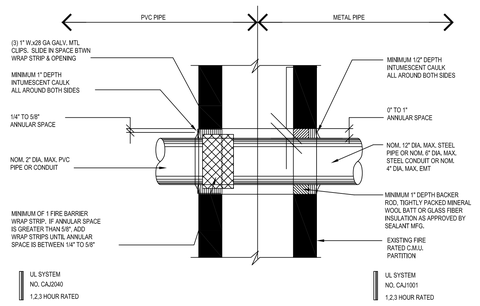
8 DETAIL – TYPICAL CONNECTION OF FIRE ALARM AHU SHUTDOWN

SCALE: NONE



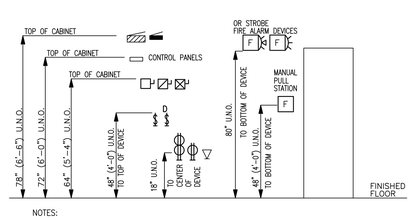
9 DETAIL FIRESTOPPING AT G.W.B. PARTITION

SCALE: NONE



10 DETAIL FIRESTOPPING AT C.M.U. PARTITION

SCALE: NONE



NOTES:

1. HEIGHTS SHOWN ARE TYPICAL TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.
2. WHEREVER DEVICES ARE INDICATED TO BE ABOVE DOORS, DEVICE SHALL BE CENTERED BETWEEN TOP OF DOOR TRIM AND CEILING LINE.
3. MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER THOSE SHOWN ABOVE.
4. FOR CEILINGS BELOW 7'–4", FIRE ALARM STROBE OR HORN/STROBES SHALL BE WALL MOUNTED 6" BELOW FINISHED CEILING.

11 DETAIL EQUIPMENT AND DEVICE MOUNTING HEIGHT

SCALE: NONE

PLOT DATE: 11/18/2024 1:44 PM

Professional Engineering Groups, Inc.
7145 Happy Hollow Road / Suite 200
Trussville, AL 35173
Ph: 205-655-4237 - PEG NO. 24004

ALABAMA REGISTERED PROFESSIONAL ENGINEER NO. 19622 10/31/24

ISSUED FOR:
BID / CONSTRUCTION DOCUMENTS
OCTOBER 31, 2024

A NEW FACILITY FOR:
Pell City
FIRE STATION #2
2911 MARTIN STREET SOUTH
CROPWELL, AL 35054

GREAT SEAL OF PELL CITY, ALABAMA

City of Pell City
1905 1st Avenue North
Pell City, AL 35125
(205) 338-2244

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REVISIONS

SHEET TITLE
DETAILS ELECTRICAL

PROJECT NUMBER
1917

ISSUE DATE
10/31/2024

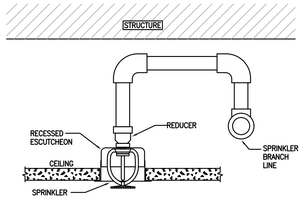
DRAWN BY
GM/JL

CHECKED BY
RH

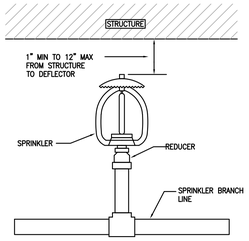
SHEET NUMBER
E6.01

FIRE STATION #2

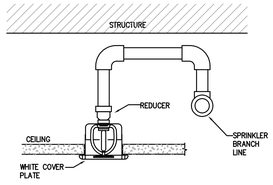
MW / Davis Dumas & Associates, Inc.
CONSULTING ENGINEERS
4500 Southlake Park, Suite 200
Hoover, Alabama 35244
Phone: (205) 252-0246
www.mwdda.com
Project # 223150



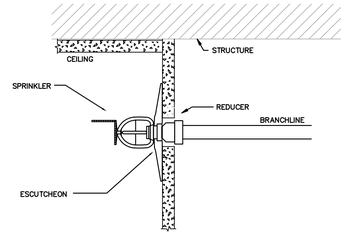
1 RECESSED SPRINKLER (QUICK RESPONSE)
NOT TO SCALE



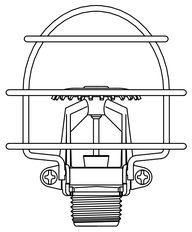
2 UPRIGHT SPRINKLER (QUICK RESPONSE)
NOT TO SCALE



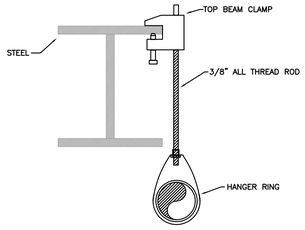
3 CONCEALED SPRINKLER (QUICK RESPONSE)
NOT TO SCALE



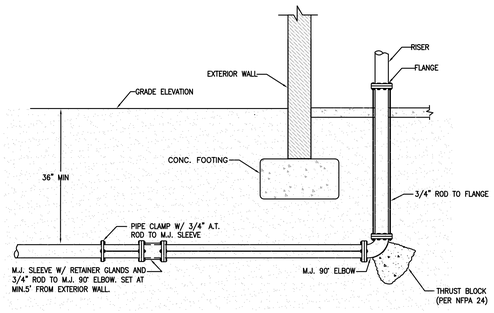
4 SIDEWALL SPRINKLER (QUICK RESPONSE)
NOT TO SCALE



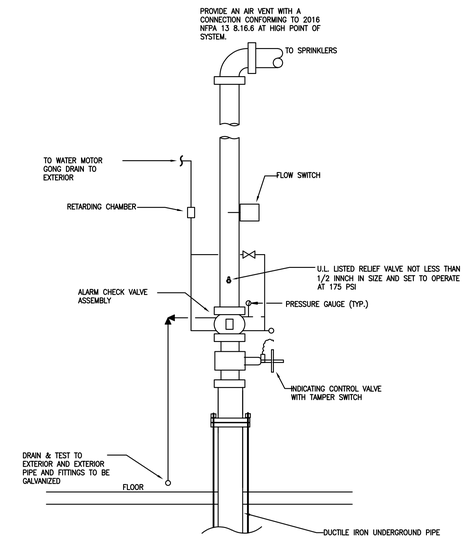
5 UPRIGHT SPRINKLER WITH SPRINKLER GUARD
NOT TO SCALE



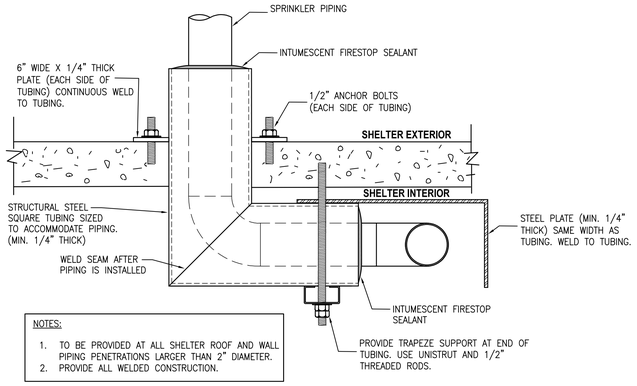
6 TYPICAL # 1 HANGER
NOT TO SCALE



7 PIPE ENTRY AT BUILDING DETAIL
NOT TO SCALE



8 WET AUTOMATIC SPRINKLER SYSTEM RISER DETAIL
NOT TO SCALE



NOTES:
1. TO BE PROVIDED AT ALL SHELTER ROOF AND WALL PIPING PENETRATIONS LARGER THAN 2" DIAMETER.
2. PROVIDE ALL WELDED CONSTRUCTION.

9 DETAIL OF SPRINKLER PIPE PASSING THRU SHELTER WALL
NOT TO SCALE

SPRINKLER SYSTEM NOTES:

1. PROVIDE AND INSTALL WET AUTOMATIC SPRINKLER SYSTEM COVERAGE FOR THE BUILDING IN ACCORDANCE WITH NFPA 13, CITY MUNICIPAL CODE REQUIREMENTS AND SPECIFICATION SECTION 21.
2. CIVIL TO PROVIDE AND INSTALL FIRE DEPT. HOSE CONNECTIONS IN ACCORDANCE WITH NFPA 14 AND LOCAL CODE REQUIREMENTS.
3. CIVIL TO PROVIDE AND INSTALL DOUBLE CHECK DETECTOR BACK FLOW PREVENTER WHERE REQUIRED BY LOCAL AUTHORITIES.
4. COORDINATE THE LOCATION AND ARRANGEMENT OF THE FIRE DEPT. CONNECTIONS AND BACK FLOW PREVENTER WITH CIVIL DIVISION.
5. BRANCH LINES (WHERE POSSIBLE) SHALL BE RUN IN JOIST SPACE. SPRINKLER PIPING SHALL BE COORDINATED WITH DUCTWORK, CONDUIT, LIGHTS, PLUMBING PIPING AND OTHER RELATED TRADES TO INSURE ALL INTERFERENCE HAVE BEEN RESOLVED BEFORE INSTALLING PIPING.
6. ALL MATERIALS, WORKMANSHIP AND TESTING SHALL MEET THE REQUIREMENTS OF APPLICABLE STATE/LOCAL CODES, THE REQUIREMENTS OF NFPA 13 AND NFPA 25.
7. THE CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY EVALUATE THE EXTENT OF WORK AND WORKING CONDITIONS PRIOR TO BID.
8. PROVIDE WIRE SPRINKLER GUARDS OVER SPRINKLER HEADS IN ELECTRICAL ,TELEPHONE ROOMS, AND OTHER SIMILAR SPACES WHERE HEADS ARE SUBJECT TO MECHANICAL DAMAGE.
9. ALL WET SPRINKLER SYSTEM PIPING SHALL BE INSTALLED WITHIN THE HEATED ENVELOPE OF THE BUILDING.
10. ALL SPRINKLERS SHALL BE CENTERED BOTH DIRECTIONS IN CEILING TILES AND ALL SPRINKLER HEADS SHALL BE LOCATED SYMMETRICALLY IN ROOMS AND CENTERED IN CORRIDORS.
11. PROVIDE MINIMUM OF 18" CLEARANCE BETWEEN BOTTOM OF AUTOMATIC SPRINKLER DEFLECTOR AND THE TOP OF STORAGE, FILES, SHELVING, ETC.
12. ALL FLOW SWITCHES SHALL BE INTERLOCKED WITH THE BUILDING FIRE ALARM SYSTEM AND ANNUNCIATED ON THE ENUNCIATOR PANEL.
13. ALL SHUT-OFF VALVES IN THE SYSTEM MUST BE OF AN INDICATING TYPE AND MUST BE MONITORED BY MEANS OF A TAMPER SWITCH.
14. SPRINKLER PIPING SHALL NOT BE ROUTED OVER ELECTRICAL PANELS AND SPRINKLERS IN ELECTRICAL ROOMS SHALL BE SUPPLIED BY PIPING THAT TERMINATES IN THE ROOM AND DOES NOT PASS DIRECTLY OVER ELECTRICAL PANELS.
15. ALL SPRINKLERS SHALL BE U.L. LISTED AND F.M, APPROVED COMMERCIAL TYPE QUICK RESPONSE.
16. ALL PRODUCTS USED SHALL BE MANUFACTURED IN THE U.S.A., INCLUDING BUT NOT LIMITED TO SPRINKLERS, SPRINKLER PIPING, FITTINGS, VALVES, SWITCHES AND ALL OTHER ITEMS USED IN THE FIRE PROTECTION SYSTEM.

FIRE-STOP NOTES:

1. PROVIDE AND INSTALL U.L. CLASSIFIED THROUGH-PENETRATION FIRESTOP SYSTEMS FOR PIPING AND CONDUIT PENETRATIONS THROUGH ALL FIRE-RESISTANCE-RATED ASSEMBLIES IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES.
2. THE FIRESTOP SYSTEMS PROVIDED SHALL RESIST THE SPREAD OF FIRE, RESIST THE PASSAGE OF SMOKE AND OTHER GASES.

KEYED NOTES

1. LIGHT HAZARD OCCUPANCY PROVIDE 0.10 DENSITY
2. ORDINARY HAZARD GROUP 1 OCCUPANCY PROVIDE 0.15 DENSITY
3. ORDINARY HAZARD GROUP 2 OCCUPANCY PROVIDE 0.20 DENSITY
4. PROVIDE SIDEWALL SPRINKLERS UNDER OVERHEAD DOORS.

NOTE:
1. SMALL ROOM RULE DOES NOT APPLY TO ORDINARY HAZARD OCCUPANCIES.
2. PROVIDE SPRINKLER COVERAGE UNDER FIXED OBSTRUCTIONS OVER 4 FT WIDE SUCH AS DUCTS, DECKS, OPEN GRATE FLOORING.
3. ROUTE ALL PIPING AS HIGH AS POSSIBLE.

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REVISIONS

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No. 14178
PROFESSIONAL
ENGINEER
JAMES S. DAVIS
10/25/2024
223150

BID/PERMIT/CONSTRUCTION DOCUMENTS

A NEW FACILITY FOR:
Pell City
FIRE STATION #2
2911 MARTIN STREET SOUTH
CROPWELL, AL 35054

SHEET TITLE
DETAILS & NOTES FIRE PROTECTION

PROJECT NUMBER
1917
ISSUE DATE
10/31/2024
DRAWN BY
DB
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JSD
SHEET NUMBER
FP0.01

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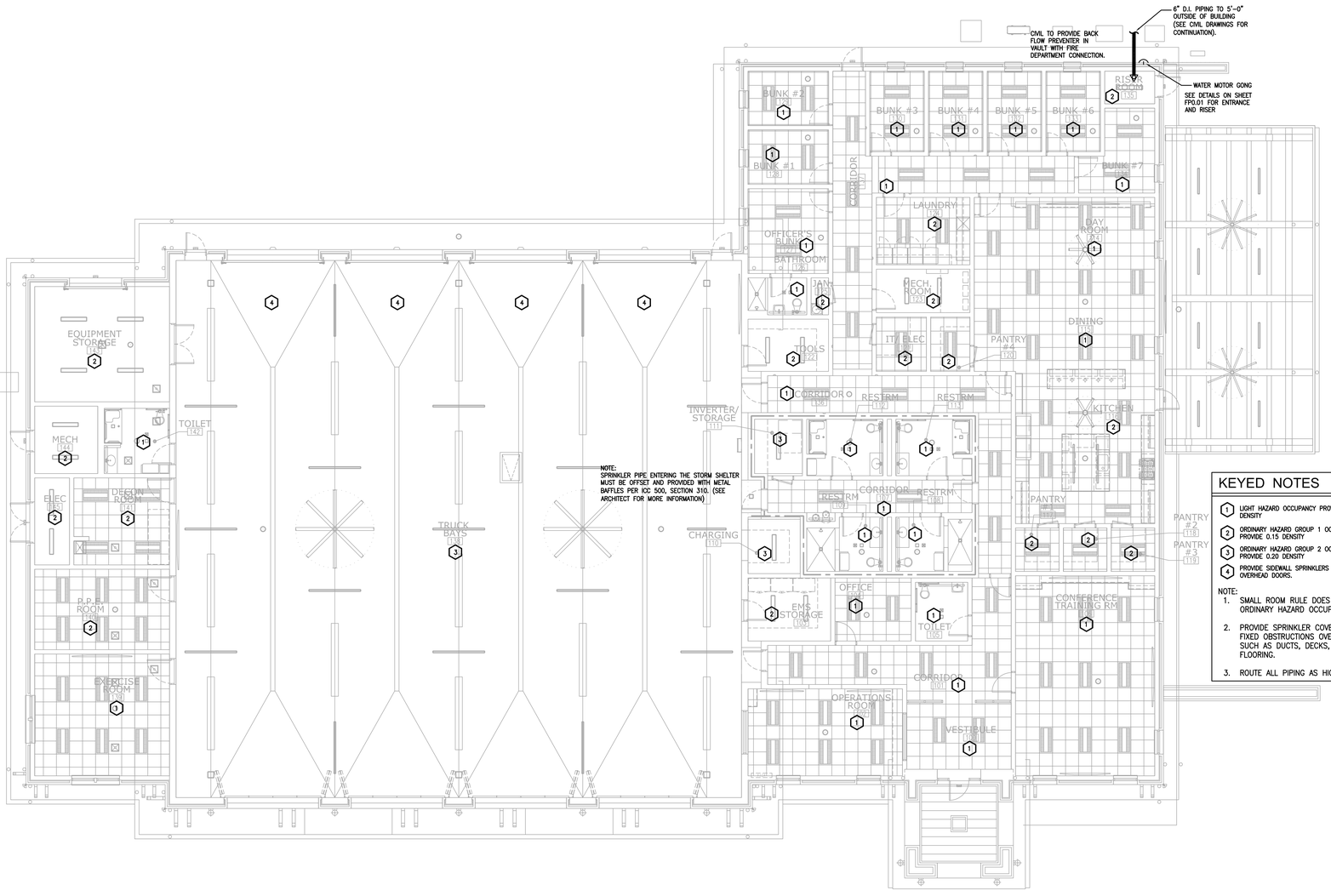

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01 / FP1.01 FLOOR PLAN - FIRE PROTECTION
1/8" = 1'-0"

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