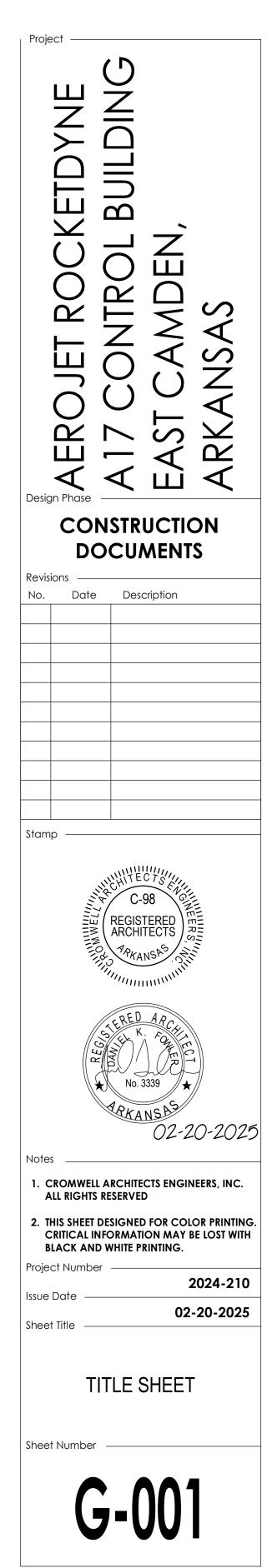


AEROJET ROCKETDYNE A17 CONTROL BUILDING

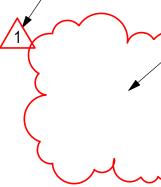
EAST CAMDEN, ARKANSAS





ARCHITECTURAL ABBREVIATIONS

| | | | | IN |
|-----------------|--|-----------------|--|-----------------------------|
| AB | ANCHOR BOLT | KG | KILOGRAM | |
| ACOUST. AD | ACOUSTICAL AUXILIARY DRAIN | LCB LM | LIQUID CHALK BOARD LINEAL METER | SH |
| ADJ. | ADJUSTABLE | LG | LONG | NUN |
| ADMIN. | ADMINISTRATION | MAS | MASONRY | |
| A.F.F. | ABOVE FINISH FLOOR | MATL. | MATERIAL | GENE |
| AGGRE. ALUM. | AGGREGATE ALUMINUM | MAX MB | MAXIMUM MINI-BLINDS | G-001 |
| BD | BOARD | M.D. | METAL DECK | G-002 |
| B.F.F. | BELOW FINISH FLOOR | MECH. | MECHANICAL | G-003 |
| BLKG BM | BLOCKING | MEMB. | MEMBRANE | |
| BINI B.O. | BEAM BOTTOM OF | MEZZ. MFR | MEZZANINE MANUFACTURER | LIFE S GI001 |
| BPL | BASE PLATE | MISC. | MISCELLANEOUS | GI001 |
| BS | BOTH SIDES | MO | MASONRY OPENING | GIIUT |
| BTWN. B.U.R. | BETWEEN BUILT-UP ROOF | M.S. MTL. | METAL STUD METAL | CIVIL |
| CAL. | CALIPER | N.I.C. | | VF101 |
| CL | CENTERLINE | NS | NON-SHRINK | C-001 |
| CFC | COMBINED FACILITIES COMPLEX | N.T.S. | NOT TO SCALE | CD101 |
| CSF CG | COMBINED SHARED FACILITIES CORNER GUARD | OC OD | ON CENTER OUTSIDE DIAMETER | CS101 |
| CJ | CONTROL JOINT | OFW | OUTSIDE DIAMETER OUTSIDE FACE OF WALL | CG10 ¹ |
| CLG | CEILING | OPNG | OPENING | CU101 |
| CMU | CONCRETE MASONRY UNIT | OPP. | OPPOSITE | C-501 |
| COL. CONC. | COLUMN CONCRETE | P.LAM PL | PLASTIC LAMINATE PLATE | |
| CONC. BLK | CONCRETE BLOCK | PL PLYWD. | PLATE PLYWOOD | STRU |
| CONST. | CONSTRUCTION | PNL | PANEL | S-001 |
| CONT. | CONTINUOUS | PROD | PRODUCE | S-002 |
| CT | | KG/SQM | KILOGRAMS PER SQUARE METER | S-101 |
| DB DIM. | DECK BEARING DIMENSION | KG/SQCM QTY | KILOGRAMS PER SQUARE CENTIMETER QUANTITY | S-201 |
| DIM. DR | DOOR | R | RISER | S-301 |
| DTL | DETAIL | R | RADIUS | S-302 |
| DWG | DRAWING | RD | ROOF DRAIN | |
| EA | | REFRIG | REFRIGERATION | ARCH |
| E.B. EF | EXPANSION BOLT EXHAUST FAN | REINF REQD | REINFORCING REQUIRED | A-101 |
| E.I.F.S. | EXTERIOR INSULATION AND FINISH SYSTEM | RM | ROOM | A-101 |
| EJ | EXPANSION JOINT | RPP | RACK POST PROTECTOR | A-102 |
| ELEC. | ELECTRICAL | SC | SOLID CORE | A-201 |
| ELEV. EQ | ELEVATION EQUAL | SCHED. SECT. | SCHEDULE SECTION | A-301 |
| EQUIP. | EQUIPMENT | SHT. | SHEET | A-302 |
| EW | EACH WAY | SIM. | SIMILAR | A-401 |
| EWC | ELECTRIC WATER COOLER | SPECS | SPECIFICATIONS | A-501 |
| EXIST. EXP | EXISTING EXPANSION | SMFE SRFE | SURFACE MOUNTED FEC SEMI-RECESSED FEC | A-540 A-601 |
| EXT. | EXTERIOR | SINE | SEWER | A-001 |
| F | FEMALE | SS | SANITARY SEWER | |
| FD | FLOOR DRAIN | S.S. | STAINLESS STEEL | |
| FE FEC | FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET | SSC SST | STAINLESS STEEL CLOSURE STAINLESS STEEL THRESHOLD | |
| F.F.E. | FINISH FLOOR ELEVATION | STB | STAFF TRAINING BUILDING | |
| FIN. | FINISH | STL | STEEL | SYMBOL |
| FLR | FLOOR | STO. | STORAGE | SINDUL |
| FND F.O.C. | FOUNDATION FACE OF CONCRETE | STRUCT SYM. | STRUCTURAL SYMBOL | |
| F.O.C. FRP | FIBERGLASS REINFORCED PANEL | T | TREAD | |
| FTG | FOOTING | Т&В | TOP AND BOTTOM | ROOM LABEL |
| GA | GAGE | THK | THICK | |
| GALV | GALVANIZED | THRESH. | THRESHOLD | |
| GR GP | GUARD RAIL GUARD POST | TJ TO | TOOLED JOINT TOP OF | 101 - 150 SF- |
| GYP | GYPSUM | T.O.S. | TOP OF STEEL | |
| GYP.BD. | GYPSUM BOARD | T.O.P. | TOP OF PANEL | |
| Н | HIGH | TS | TUBE STEEL | DOOR LABEL |
| HD HC | HANDICAP HOLLOW CORE | TYP T.O.M. | TYPICAL TOP OF MASONRY | |
| HDW | HARDWARE | U.N.O. | UNLESS NOTED OTHERWISE | |
| HM | HOLLOW METAL | VCT | VINYL COMPOSITION TILE | |
| HORIZ. | HORIZONTAL | VERT. | VERTICAL | SEE DOOR S |
| HP ut | HORSEPOWER | VEST. | | |
| HT INFO. | HEIGHT INFORMATION | V.I.F. W | VERIFY IN FIELD WIDE | WINDOW LABEL |
| INSUL. | INSULATION | Ŵ/ | WITH | |
| INT | INTERIOR | WC | WATER CLOSET | |
| JAN | JANITOR. | WD | WOOD | \checkmark |
| JT JST | JOINT JOIST | WDW WG | WINDOW WALL GUARD | |
| KCJ | KEYED CONTROL JOINT | WG W/O | WITHOUT | REVISION IDENTIF |
| LAV. | LAVATORY | WP | WATERPROOFING | / |
| | | WT | | |
| | | WWF | WELDED WIRE FABRIC | $\sim \sim$ |



WELDED WIRE FABRIC

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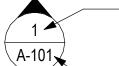
MBOLS LEGEND

- ROOM NAME
- ROOM NUMBER
- ROOM AREA
- ------ FIRE RATING
- DOOR NUMBER PER SCHEDULE SEE DOOR SCHEDULE AND ELEVATIONS

ISION IDENTIFICATION

- REVISION NUMBER
- GENERAL AREA OR DETAIL INCLUDED IN REVISION

ELEVATION SYMBOL



ELEVATION IDENTIFICATION NUMBER

SHEET NUMBER WHERE ELEVATION IS DRAWN

SECTION SYMBOL

SECTION IDENTIFICATION NUMBER

1 A-104

- DETAIL IDENTIFICATION NUMBER

- SHEET NUMBER WHERE DETAIL IS DRAWN

SHEET NUMBER WHERE SECTION IS DRAWN

DETAIL SYMBOL

1 🗡

A-101

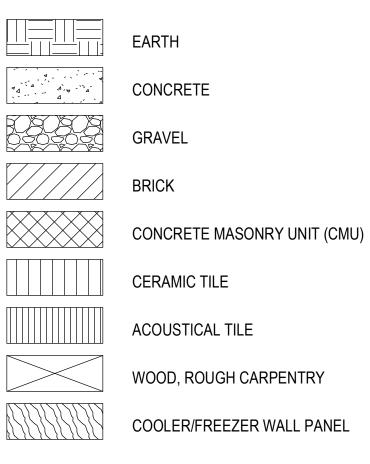
KEY NOTE

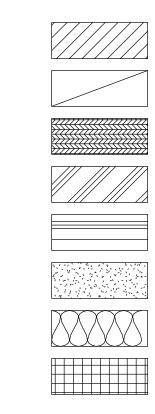
- NOTE IDENTIFICATION NUMBER **(1)**

PARTITION TAG

- FIRE RATING - PARTITION TYPE

ACCESSORY TAG 1t -ACCESSORY TAG **SECTION INDICATIONS**





WOOD, FINISH CARPENTRY

WOOD, BLOCKING

PLYWOOD

METAL

GLASS

GYPSUM BOARD (GWB)

BATT INSULATION

RIGID INSULATION

| CROMWELL 1300 East 6th Street Little Rock, AR 72202 501.372.2900 cromwell.com |
|--|
| AEROJET ROCKETDYNE A17 CONTROL BUILDING EAST CAMDEN, ARKANSAS ARKANSAS |
| |
| Revisions No. Date Description |
| |
| |
| |
| |
| |
| Stamp |
| Notes 1. CROMWELL ARCHITECTS ENGINEERS, INC. ALL RIGHTS RESERVED 2. THIS SHEET DESIGNED FOR COLOR PRINTING. |
| 2. THIS SHEET DESIGNED FOR COLOR PRINTING. CRITICAL INFORMATION MAY BE LOST WITH BLACK AND WHITE PRINTING. |
| Project Number |
| 02-20-2025 Sheet Title |
| INDEX, SYMBOLS & ABBREV. |



Sheet Number –

<u>NOTES</u>

A. GENERAL CONSTRUCTION REQUIREMENTS:

A1. ALL WORK SHALL BE DONE IN A SAFE AND WORKMANLIKE MANNER AND IN STRICT ACCORDANCE WITH GOVERNING BUILDING CODES, NATIONAL ELECTRIC CODE, AND ALL APPLICABLE REGULATIONS AND ORDINANCES HAVING JURISDICTION.

A2. THE CONTRACTOR IS TO UNDERSTAND ALL DRAWINGS AND SPECIFICATIONS COMPLETELY. EACH ASPECT OF THE WORK MAY BE INDICATED IN ONE DISCIPLINE OR INDICATED IN MULTIPLE DISCIPLINES. REVIEW ALL INFORMATION FROM ALL DISCIPLINES AND COMPLETELY FIELD VERIFY ALL CONDITIONS BEFORE IMPACTING EXISTING CONDITIONS OR PROVIDING NEW WORK.

A3. EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO DO SO DOES NOT RELIEVE ANY RESPONSIBILITY FOR PERFORMING THIS WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

A4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO FABRICATION OF ALL ITEMS, AND IF ANY DISCREPANCIES ARE FOUND BETWEEN WHAT IS SHOWN ON THE PLANS AND WHAT EXISTS IN THE FIELD, CONTACT THE ARCHITECT TO DETERMINE THE PROPER COURSE OF ACTION. THE CONTRACTOR'S APPROVAL FOR FABRICATION INDICATES THE ACCEPTANCE OF EXISTING CONDITIONS.

A5. THE OWNER WILL NOT OCCUPY THE BUILDING DURING CONSTRUCTION, HOWEVER THE CONTRACTOR SHALL COORDINATE WITH THE OWNERS CONTROLS CONSULTANT. CONTACT: R.L. CONSULTING INC. (256)-248-0694 MR. ROY L. LYNCH. rlynch@rlconsultinginc.com A COORDINATION MEETING WILL BE REQUIRED PRIOR TO THE START OF CONSTRUCTION.

A6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING, BRACING AND SUPPORT SYSTEMS DURING CONSTRUCTION. THE CONTRACTOR SHALL RETAIN A REGISTERED PROFESSIONAL ENGINEER TO DESIGN THE SHORING OR BRACING AND SPECIFY PROCEDURES. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR MEANS AND METHODS OF CONSTRUCTION.

A7. ANY DAMAGE TO THE OWNER'S/OWNER'S EMPLOYEES PROPERTY CAUSED BY THE CONSTRUCTION PROCESS SHALL BE REPAIRED/REPLACED AT NO COST TO THE OWNER OR OWNER'S EMPLOYEES.

A8. NOT USED.

A9. THE CONTRACTOR SHALL KEEP THE CONSTRUCTION AREA FREE AND CLEAR OF DEBRIS. REMOVE TRASH AND DEBRIS FROM CONSTRUCTION AREA AND DO NOT ALLOW TO ACCUMULATE. NO FLAMMABLE MATERIALS/LIQUIDS MAY BE STORED IN NEW CONSTRUCTION. PROVIDE EXTINGUISHERS AS REQUIRED BY LOCAL AND STATE AUTHORITIES, UL LISTED 2A:20BC DRY CHEMICAL FIRE EXTINGUISHERS, ACCESSIBLE AT ALL TIMES IN CONSTRUCTION AREAS.

A10. NOT USED.

A11. REMOVE ANY EXISTING SERVICES FOR THE INSTALLATION OF NEW CONSTRUCTION. EXISTING FIBER SHALL BE PROTECTED DURING CONSTRUCTION ACTIVITIES.

A12. REPAIR, RE-ROUTE AND EXTEND ALL SERVICES AND PIPING REQUIRED DURING THE CONSTRUCTION PROCESS FOR THE COMPLETE INSTALLATION AND OPERATIONS OF NEW EQUIPMENT OR SERVICES. THIS INCLUDES ALL ITEMS SHOWN OR NOT SHOWN ON THE DRAWINGS. RESET EXISTING EQUIPMENT OR RELATED ITEMS AS REQUIRED FOR PROPER OPERATION.

A13. NOT USED.

A14. ALL QUESTIONS RELATING TO THE CONSTRUCTION OF THIS PROJECT SHALL BE DONE IN WRITTEN FORM USING THE "REQUEST FOR INFORMATION" FORM, INCLUDED IN THE SPECIFICATIONS, THROUGH THE GENERAL CONTRACTOR ONLY. FOLLOW INSTRUCTIONS WHEN COMPLETING AND SENDING THIS FORM.

B. GENERAL SITE VERIFICATION REQUIREMENTS:

B1. EXISTING CONDITIONS SHOWN IN THESE PLANS ARE BASED ON LIMITED FIELD OBSERVATIONS BY THE ARCHITECT AND ORIGINAL DESIGN DRAWINGS. ALL EXISTING MATERIAL, DIMENSIONS, ELEVATIONS, AND GENERAL CONDITIONS OF THE BUILDING SHALL BE VERIFIED BEFORE PURCHASE OF MATERIAL AND CONSTRUCTION. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN PLANS AND FIELD CONDITIONS IMMEDIATELY.

B2. ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES (WHETHER SHOWN OR NOT) PRIOR TO THE SUBMISSION OF HIS BID OR THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF THE DISCOVERY OF EXISTING UTILITIES NOT SHOWN OR NOTED ON DRAWINGS. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS AND DEPTHS OF UNDERGROUND UTILITY SERVICES PRIOR TO ANY EXCAVATION.

B3. EXISTING FIBER AND OTHER UNDERGROUND UTILITIES SERVE EXISTING CRITICAL OPERATIONS & MUST REMAIN PROTECTED AND UNTOUCHED DURING CONSTRUCTION OPERATIONS. GC SHALL COORDINATE WITH AEROJET ENGINEERS TO WORK AROUND THESE ITEMS. GC SHALL LOCATE AND PROTECT ALL EXISTING CRITICAL UTILITIES IN THE AREA OF DEMOLITON & CONSTRUCTION.

C. GENERAL FLOOR PLAN NOTES:

REFER TO ARCH PLAN SHEETS

- C1. ALL DIMENSIONS ARE TO FACE OF STUD OR SLAB UNLESS OTHERWISE NOTED.
- C2. NOT USED.

C3. ALL NEW FLOORING SHALL BE PROTECTED FROM SCRATCHING, MARKING, STAINING, ETC. DURING CONSTRUCTION. ANY FLOORING THAT IS DAMAGED BY CONSTRUCTION AND DOES NOT APPEAR IN NEW CONDITION AT THE TIME OF POSSESSION WILL BE REPLACED BY THE GENERAL CONTRACTOR AT HIS EXPENSE. INSTALL TRANSITION STRIP WHERE FLOORING ABUTS EXPOSED CONCRETE FLOOR.

D. GENERAL DEMOLITION REQUIREMENTS:

D1. ALL DEMOLITION SHALL BE CARRIED OUT IN A SAFE MANNER AND IN STRICT ACCORDANCE WITH OSHA REGULATIONS.

- D2. THE OWNER SHALL DEMOLISH THE EXISTING BUILDING, UNDER SEPARATE CONTRACT, PRIOR TO START OF CONSTRUCTION. REFER TO CIVIL DRAWINGS FOR ANY SITE DEMOLITION INCLUDED IN THIS CONTRACT.
- D3. NOT USED
- D4. NOT USED

D5. DURING CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER ANY REQUIRED SAFETY BARRIERS OR BARRICADES. PROVIDE BARRICADES SO AS TO PRECLUDE INTRUSION OF PUBLIC INTO CONSTRUCTION AREAS.

D6. CONTRACTOR SHALL PROVIDE THE OWNER A CONSTRUCTION SCHEDULE FOR DEMOLITION AND NEW CONSTRUCTION. COORDINATE DEMOLITION WITH NEW CONSTRUCTION SO THE CAMPUS WILL HAVE LIMITED INTERRUPTION OF WATER, SEWER, ELECTRICAL, GAS AND FIRE PROTECTION SERVICE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING ALL NECESSARY TEMPORARY UTILITY PROVISIONS REQUIRED.

D7. ALL DEMOLITION MATERIALS NOT SALVAGED BY THE OWNER SHALL BE REMOVED BY THE CONTRACTOR. COORDINATE WITH THE OWNER REGARDING MATERIALS TO BE SALVAGED. ALL DEMOLISHED MATERIALS LEAVING THE SITE SHALL BE DOCUMENTED. REFER TO SPECIFICATIONS.

D8. NOT USED

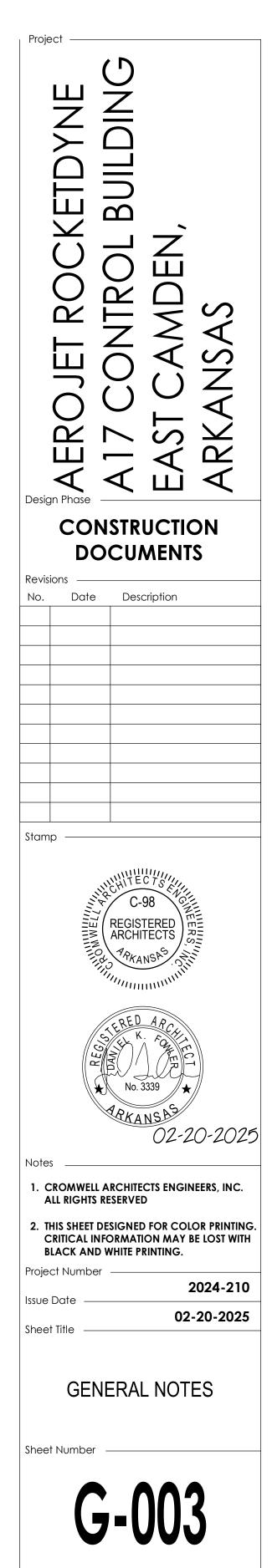
D9. NOT USED

D10. THE CONTRACTOR SHALL USE A WET SAW FOR SLAB SAWING. NO JACK HAMMERS WILL BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE OWNER.

D11. PROTECT ALL WATER PIPING AT AREAS OF DEMOLITION AND NEW WORK.

D12. CONTRACTOR SHALL DISPOSE OF ALL WASTE AND BE RESPONSIBLE FOR ALL FEES ASSOCIATED WITH DISPOSAL. CONTRACTOR SHALL PROVIDE OWNER WITH A MANIFEST FOR ALL ITEMS THAT HAVE BEEN TAKEN OFF SITE FOR DISPOSAL.





| APPLICAB | LE CODES | S AND STANDARDS |
|----------|----------|--|
| CODE | EDITION | DESCRIPTION |
| AFPC | 2021 | ARKANSAS FIRE PREVENTION BUILDING CODE |
| NFPA 1 | 2021 | FIRE CODE |
| NFPA 10 | 2022 | STANDARD FOR PORTABLE FIRE EXTINGUISHERS |
| NFPA 13 | 2019 | INSTALLATION OF SPRINKLER SYSTEMS |
| NFPA 24 | 2019 | STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES |
| NFPA 25 | 2020 | STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER BASED FIRE PROTECTION SYSTEMS |
| NFPA 70 | 2020 | NATIONAL ELECTRIC CODE |
| NFPA 72 | 2019 | NATIONAL FIRE ALARM CODE |
| NFPA 90A | 2021 | STANDARD INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS |
| NFPA 101 | 2021 | LIFE SAFETY CODE |

OCCUPANCY CLASSIFICATION

XSINGLE \Box SEPARATED \Box NON SEPARATED

OCCUPANCY CLASSIFICATION(S): B ACCESSORY OCCUPANCIES: N/A

CONSTRUCTION CLASSIFICATION: IIB

HEIGHT AND AREA - ACTUAL

BUILDING HEIGHT **BUILDING AREA**

HEIGHT AND AREA- ALLOWABLE

| OCCUPANCY CLASSIFICATION | |
|-----------------------------|--|
| В | |
| | |
| | |

UNLIMITED AREA

INTERIOR FINISH REQUIREMENTS

| WALL & CEILING FINISH | |
|--------------------------|--|
| FLOOR COVERINGS | |

INCIDENTAL USES

| | FURNACE ROOM |
|--|--------------------------|
| | ROOMS WITH BOILE |
| | REFRIGERANT MACH |
| | HYDROGEN FUEL GA |
| | INCINERATOR ROOM |
| | PAINT SHOPS IN OTH |
| | GROUP E LABORATO |
| | SHOPS |
| | GROUP I-2 LABORAT |
| | AMBULATORY CARE |
| | LABORATORIES |
| | LAUNDRY ROOMS O |
| | GROUP I-2 LAUNDRY |
| | |
| | |
| | |
| | |

HEIGHT IN FEET 15' - 7"

HEIGHT IN STORIES 1

3,806.00 SF

| | TABULAR AREA (TABLE 506.2) | | TABULAR HEIGHT (TABLE 504.3-4) | | |
|-------------------------|-------------------------------|-------|-----------------------------------|------|---------|
| TYPE OF CONSTRUCTION | AREA FACTOR | AREA | AREA FACTOR | FEET | STORIES |
| IIB | S1 | 92000 | S | 75 | 4 |
| | | | | | |
| | | | | | |

X YES

| EXITS | EXIT ACCESS CORRIDORS | OTHER SPACES |
|---------|--------------------------|--------------|
| В | С | С |
| l or ll | l or ll | l or ll |

ROOMS

(TABLE 803.13)

(TABLE 509.1)

ERS CHINERY ROOM GAS ROOMS MS THER THAN F ORIES AND VOCATIONAL

TORIES E FACILITIES

OVER 100 SQFT Y ROOMS OVER 100 SQFT

SHOPS □ AMBULATORY CARE FACILITIES OR GROUP I-2 WASTE AND LINEN COLLECTION ROOM WITH AGGREGATE VOLUME OF 10CF □ OTHER THAN AMBULATORY AND GROUP I-2 WASTE AND LINEN COLLECTION ROOMS OVER 100 SQFT

□ GROUP I-3 CELLS AND GROUP I-2 PATIENT

GROUP I-2 PHYSICAL PLANT MAINTENANCE

- □ AMBULATORY CARE FACILITIES OR GROUP I-2 STORAGE ROOMS OVER 100 SQFT
- □ ELECTRICAL INSTALLATIONS AND TRANSFORMERS

IF APPLICABLE, SEPARATION AND/OR PROTECTION: N/A

FIRE PROTECTION SYSTEMS

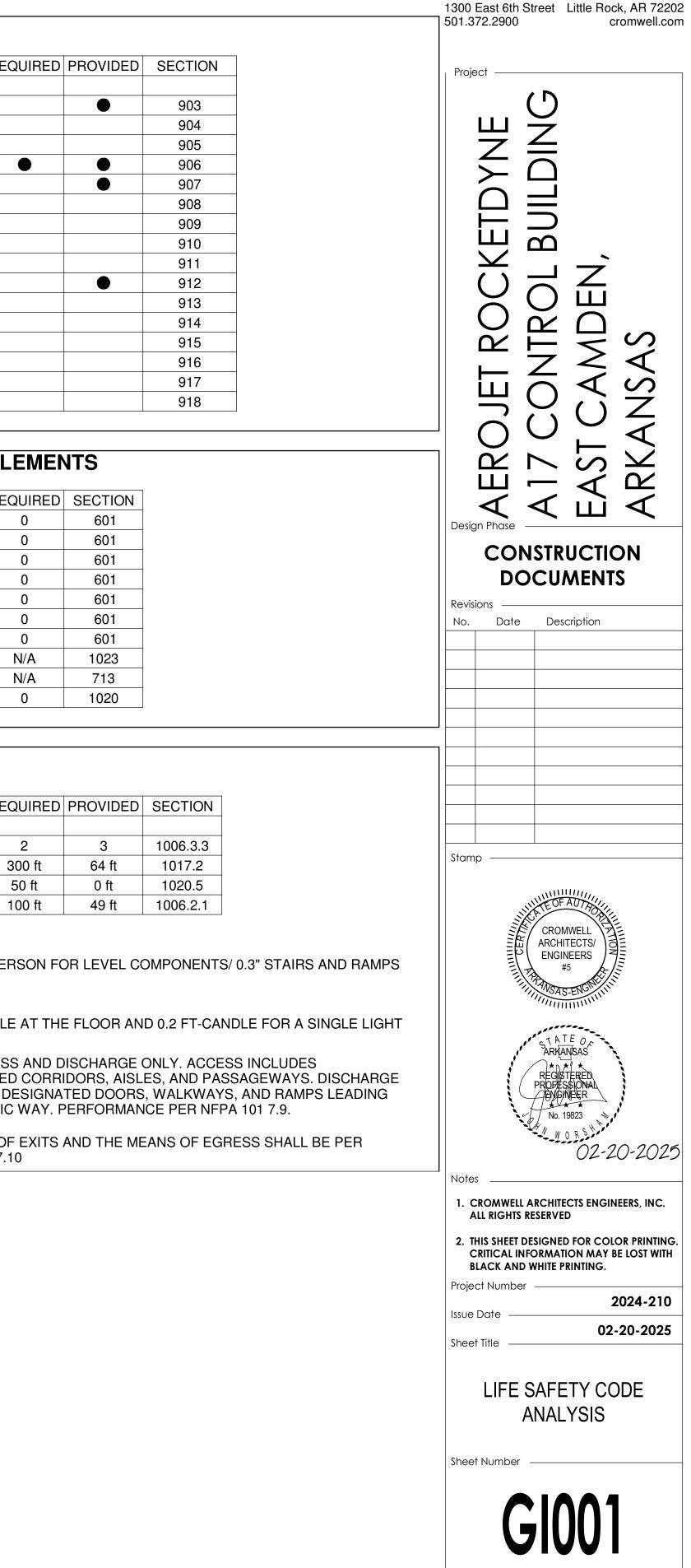
| FIRE PROTECTION SYSTEM | REC |
|-------------------------------|-----|
| | |
| AUTOMATIC SPRINKLER | |
| ALTERNATIVE AUTO FIRE EXT | |
| STANDPIPE | |
| PORTABLE FIRE EXTINGUISHERS | |
| FIRE ALARM AND DETECTION | |
| EMERGENCY ALARM | |
| SMOKE CONTROL | |
| SMOKE & HEAT REMOVAL | |
| FIRE COMMAND CENTER | |
| FIRE DEPT. CONNECTIONS | |
| FIRE PUMPS | |
| EMERGENCY RESPONDER FEATURES | |
| CARBON MONOXIDE DETECTION | |
| GAS DETECTION SYSTEMS | |
| MASS NOTIFICATION SYSTEMS | |
| EMERGENCY RESP. COMM COVERAGE | |

FIRE RESISTANCE OF BUILDING ELEMENTS

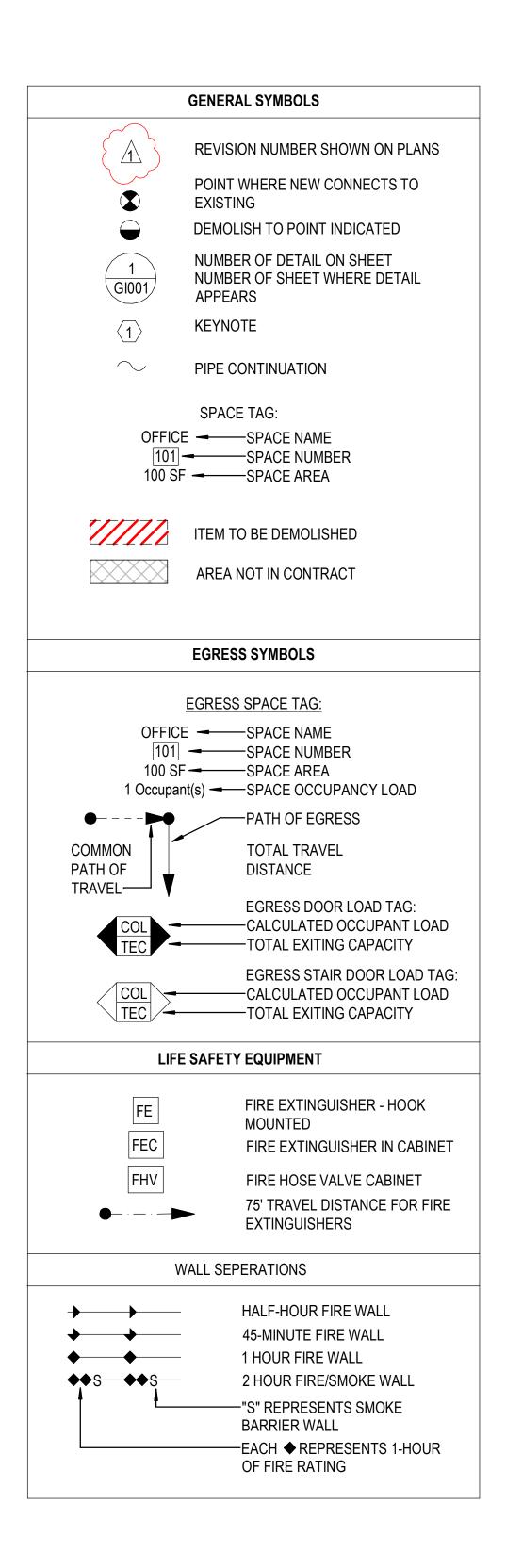
| | REC |
|------------------------------|-----|
| STRUCTURAL FRAME | |
| BEARING WALLS (EXTERIOR) | |
| BEARING WALLS (INTERIOR) | |
| NON-BEARING WALLS (EXTERIOR) | |
| NON-BEARING WALLS (INTERIOR) | |
| FLOOR CONSTRUCTION | |
| ROOF CONSTRUCTION | |
| INTERIOR EXIT STAIRWAYS | |
| SHAFT ENCLOSURE | |
| CORRIDORS | |

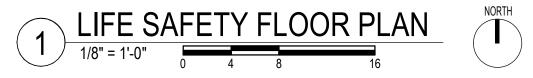
MEANS OF EGRESS

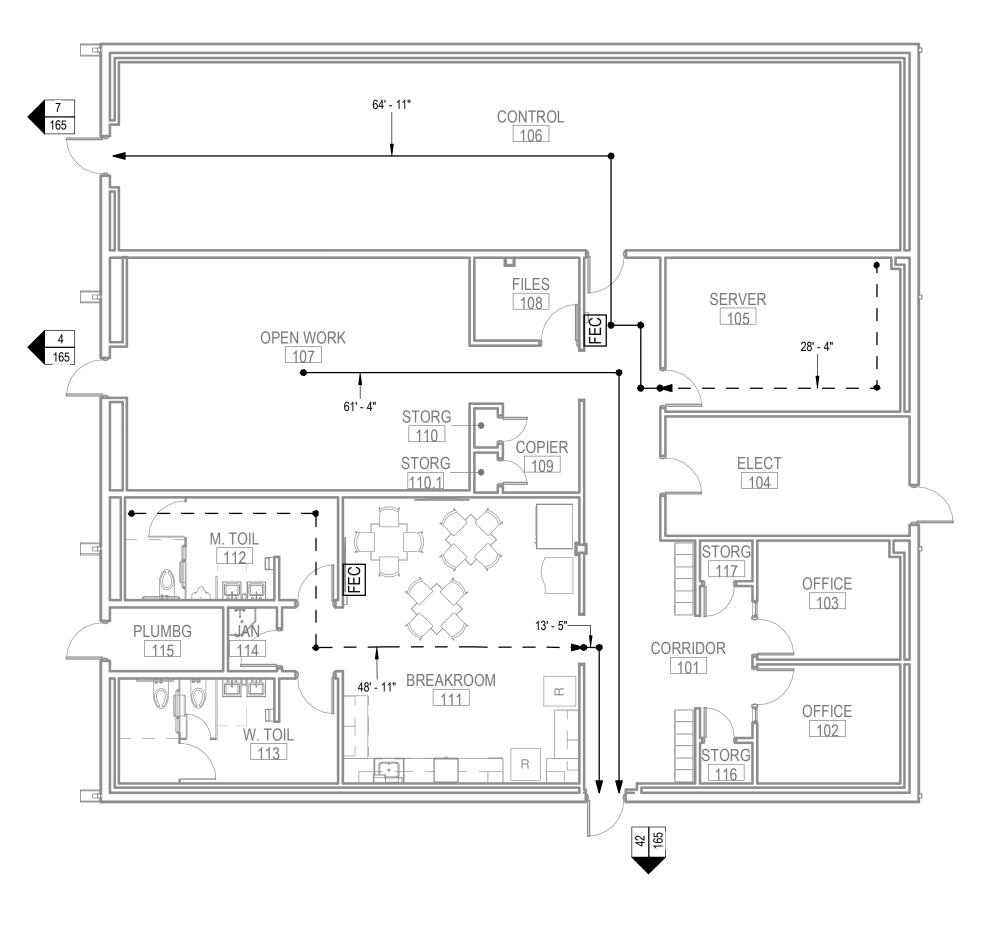
| _ | | | 1 |
|---|-----------------------------|--------------------|-------|
| | MEANS OF EGRESS ELEMENT | | REC |
| | | | |
| | NUMBER OF EXITS | | |
| | EXIT ACCESS TRAVEL DISTANCE | | 3 |
| | DEAD-END LIMIT | | Į |
| | COMMON PATH OF TRAVEL LIMIT | | 1 |
| | | | |
| | TOTAL OCCUPANT LOAD: | 53 | |
| | EGRESS WIDTH: | 0.2" PEF | |
| | MINIMUM CORRIDOR WIDTH: | 44" | |
| | CLEAR OPENING DOOR WIDTH: | 32" | |
| | ILLUMINATION OF EGRESS: | 1 FT-CA | NDLE |
| | | FAILURE | Ξ. |
| | EMERGENCY EGRESS LIGHTING: | - | |
| | | DESIGN | |
| | | INCLUDI TO A PU | - |
| | | IUAFU | |
| | EXIT MARKING: | MARKIN | G OF |
| | | NFPA 10 | 1 7.1 |
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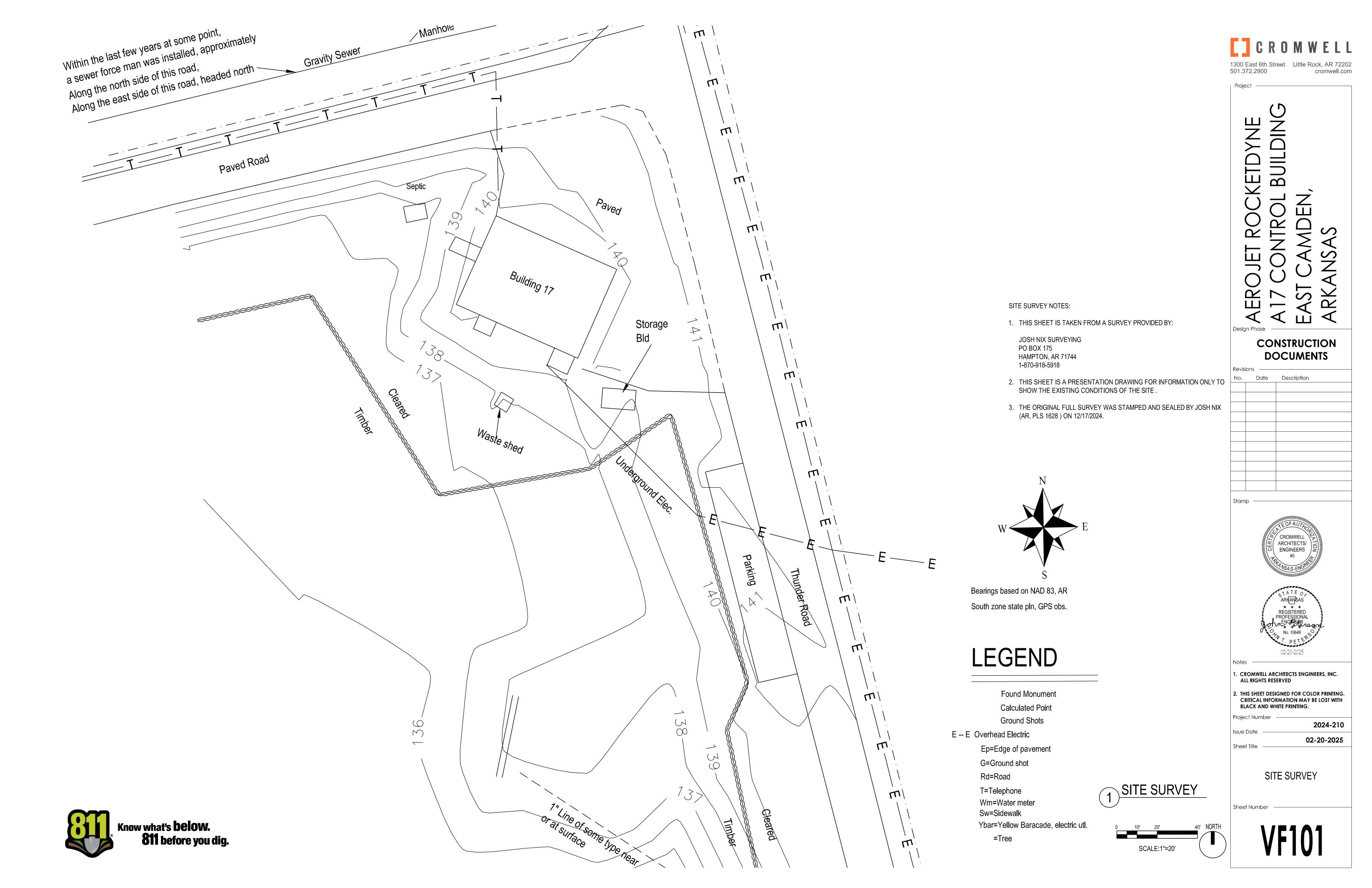
| C R O | MWELL |
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| 1300 East 6th Street 501.372.2900 | Little Rock, AR 72202 cromwell.com |

Project \bigcirc KETDYNE Ž D UIL Ω **ADEN** ЦС \bigcirc RO \sim \sim Щ S $\boldsymbol{<}$ С \bigcirc ER AS RK く К \triangleleft \triangleleft Design Phase CONSTRUCTION DOCUMENTS Revisions Date Description No. Stamp CROMWELL ARCHITECTS/ ENGINEERS #5 γATE ARKANSAS)*n *1 * REGISTERED PROPESSION ENGNESR No. 19823 02-20-2025 Notes _____ 1. CROMWELL ARCHITECTS ENGINEERS, INC. ALL RIGHTS RESERVED 2. THIS SHEET DESIGNED FOR COLOR PRINTING. CRITICAL INFORMATION MAY BE LOST WITH BLACK AND WHITE PRINTING. Project Number — 2024-210 Issue Date – 02-20-2025 Sheet Title — LIFE SAFETY FLOOR PLAN Sheet Number -**GI101**

| r | | | | |
|-----------|--------|---------|----------|----------|
| LI | FE SAF | ETY SC | HEDUL | .E |
| | | SPACE | AREA PER | OCCUPANT |
| NAME | NUMBER | AREA | PERSON | LOAD |
| CONTROL | 106 | 1024 SF | 150 SF | 7 |
| OPEN WORK | 107 | 604 SF | 150 SF | 4 |
| FILES | 108 | 60 SF | 150 SF | 0 |
| COPIER | 109 | 47 SF | 150 SF | 0 |
| STORG | 110 | 6 SF | 300 SF | 0 |
| STORG | 110.1 | 7 SF | 300 SF | 0 |
| SERVER | 105 | 251 SF | 300 SF | 1 |
| ELECT | 104 | 202 SF | 300 SF | 1 |
| CORRIDOR | 101 | 399 SF | 150 SF | 3 |
| M. TOIL | 112 | 151 SF | 150 SF | 1 |
| W. TOIL | 113 | 158 SF | 150 SF | 1 |
| BREAKROOM | 111 | 497 SF | 15 SF | 33 |
| JAN | 114 | 22 SF | 300 SF | 0 |
| PLUMBG | 115 | 50 SF | 300 SF | 0 |
| STORG | 116 | 15 SF | 300 SF | 0 |
| OFFICE | 102 | 118 SF | 150 SF | 1 |
| OFFICE | 103 | 117 SF | 150 SF | 1 |
| STORG | 117 | 15 SF | 300 SF | 0 |
| | | 3742 SF | | 53 |

LIFE SAFETY - PATH OF TRAVEL

| TRAVEL | . PATH | | |
|---------------|--------------|------------------|-----------|
| FROM ROOM | TO ROOM | EXIT TRAVEL TYPE | LENGTH |
| VI. TOIL 112 | | COMMON PATH | 48' - 11" |
| | CORRIDOR 101 | TOTAL TRAVEL | 13' - 5" |
| | | | 62' - 4" |
| OPEN WORK 107 | CORRIDOR 101 | TOTAL TRAVEL | 61' - 4" |
| | · | | 61' - 4" |
| SERVER 105 | CORRIDOR 101 | COMMON PATH | 28' - 4" |
| CORRIDOR 101 | CONTROL 106 | TOTAL TRAVEL | 64' - 11" |
| | | | 93' - 3" |



DEMOLITION NOTES:

- 1. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL, IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES, OF ALL STRUCTURES, PADS, WALLS, FOUNDATIONS, PARKING, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER SPECIFICATIONS.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND DISPOSING ALL DEBRIS FROM THE SITE IN A LAWFUL MANNER. CONTRACTOR SHALL PROVIDE THE OWNER A MANIFEST OF ALL ITEMS REMOVED FROM THE PREMISES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL
- 3. THE CONTRACTOR MUST PROTECT THE PUBLIC FROM CONSTRUCTION ACTIVITIES AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC. TO THE BEST PRACTICES AND APPROVED BY THE OWNER.
- 4. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING PARKING, SIDEWALKS, DRIVES, ETC. CLEAR AND FREE FROM ANY CONSTRUCTION ACTIVITY AND/OR MATERIAL TO ENSURE EASY AND SAFE PEDESTRIAN AND VEHICULAR TRAFFIC TO AND FROM THE SITE.
- 5. VEGETATION TO REMAIN SHALL BE PROTECTED FROM DAMAGE AND THE CONTRACTOR SHALL INSTALL EROSION CONTROL STRUCTURES AND DEVICES AND TREE PRESERVATION FENCING.
- 6. CONTRACTOR SHALL NOTIFY GOVERNING AUTHORITY PRIOR TO ANY WORK IN PUBLIC RIGHT-OF-WAY AND OBTAIN ANY NECESSARY PERMITS.
- 7. ANY DAMAGE TO THE EXISTING PUBLIC STREET OR OTHER PUBLIC INFRASTRUCTURE DUE TO THE CONSTRUCTION SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE.
- 8. CONTRACTOR SHALL SAW CUT IMPROVEMENTS AT REMOVAL LINES. THE CONTRACTOR SHALL PROTECT SAW CUT EDGE OF ASPHALT FROM RAVELING DURING CONSTRUCTION. WHERE RAVELING OCCURS PRIOR TO NEW PAVEMENT BEING PLACED THE CONTRACTOR MAY BE REQUIRED TO PROVIDE ADDITIONAL SAW CUT, AT THE CONTRACTOR'S EXPENSE, TO PROVIDE A CLEAN EDGE.
- 9. ALL PAVEMENT OR STRUCTURE DEMOLITION INCLUDES ASSOCIATED FOUNDATIONS AND/OR BASE COURSE LAYERS.
- 10. THERE ARE NUMEROUS PUBLIC AND PRIVATE UTILITIES WITHIN AND ADJACENT TO THE LIMITS OF CONSTRUCTION AND AN ATTEMPT HAS BEEN MADE TO INDICATE THEIR PRESENCE ON THE PLAN. PRIOR TO BEGINNING ANY TYPE OF EXCAVATION THE CONTRACTOR SHALL CONTACT THE VARIOUS UTILITY COMPANIES AND MAKE ARRANGEMENTS FOR LOCATION OF THE UTILITY ON THE GROUND. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN THE UTILITY LOCATION MARKINGS UNTIL THEY ARE NO LONGER NEEDED. EXISTING AND ABANDONED UTILITY LOCATIONS ARE UNKNOWN. SURVEY MARKERS ARE APPROXIMATE LOCATIONS ONLY. ALL UTILITIES ARE TO BE RELOCATED PRIOR TO CONSTRUCTION.
- 11. ALL UTILITIES SHOWN FOR REMOVAL BACK TO MAIN SHALL BE REMOVED AND CAPPED PER UTILITY STANDARD REQUIREMENTS. UTILITY REMOVAL SHALL BE COORDINATED WITH THE UTILITY AND THE OWNER. 72 HOURS WRITTEN NOTICE SHALL BE GIVEN TO THE OWNER AND UTILITY PRIOR TO DEMOLISHING ANY UTILITY.
- 12. EXISTING UTILITIES TO REMAIN ARE TO BE PROTECTED.
- 13. SEE ELECTRICAL SITE PLAN FOR ADDITIONAL ELECTRIC SERVICE REMOVAL.
- 14. CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL EXISTING SITE CONDITIONS DISTURBED BY CONSTRUCTION ACTIVITIES BACK TO EXISTING OR BETTER CONDITIONS.
- 15. SHOULD REMOVAL AND/OR RELOCATION ACTIVITIES DAMAGE FENCING, SIDEWALKS, LIGHTING, STORM INLET STRUCTURES, ETC. THEN THE CONTRACTOR SHALL PROVIDE NEW MATERIAL/STRUCTURES IN ACCORDANCE WITH CONTRACT DOCUMENTS. EXCEPT FOR MATERIALS DESIGNATED TO BE RELOCATED ON THIS PLAN, ALL CONSTRUCTION MATERIALS SHALL BE NEW.
- 16. ANY CONSTRUCTION ACTIVITIES THAT WILL REQUIRE ROAD OR LANE CLOSURES SHALL BE COORDINATED WITH THE APPROPRIATE ORGANIZATION PRIOR TO CLOSURE AND APPROPRIATE PERMITS OBTAINED BY THE CONTRACTOR.
- 17. CONTRACTOR SHALL PAY FOR ALL TRAFFIC CONTROL DEVICES AND PERSONNEL FOR ROAD CLOSURES AND DETOURS
- 18. DIG CAREFULLY. STATE LAWS GENERALLY PROHIBIT THE USE OF MECHANIZED EQUIPMENT WITHIN 18-24 INCHES OF A MARKED UTILITY, WHICH IS CALLED THE "TOLERANCE ZONE". CONTACT THE PROPER LOCAL AGENCY PRIOR TO DIGGING.

SITE LAYOUT NOTES :

- 1. CONTRACTOR SHALL BE CONFINED TO THE LIMITS OF CONSTRUCTION SHOWN UNLESS OTHER PROVISIONS HAVE BEEN MADE WITH THE OWNER. THIS INCLUDES STAGING AND LAYDOWN AREAS.
- 2. CONTRACTOR SHALL NOTIFY OWNER PRIOR TO WORK BEGINNING. A PRE-CONSTRUCTION MEETING IS REQUIRED WITH AEROJET (AR) FIELD COORDINATOR, AR SAFETY, AR FACILITIES ENGINEERS AND HIGHLAND INDUSTRIAL PARK REPRESENTATIVES.
- 3. DIMENSIONS TO CURBS ARE TO BACK OF CURB. DIMENSIONS TO BUILDINGS ARE TO OUTSIDE FACE OF BUILDING WALL.
- 4. MINIMUM CURB RADIUS SHALL BE 2'.
- 5. THE CONTRACTOR SHALL LAYOUT AND VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION, ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR DIRECTION AND RESOLUTION PRIOR TO PROCEEDING.
- 6. PROVIDE EXPANSION JOINTS IN ALL CASES WHERE CONCRETE SURFACE MEETS VERTICAL STRUCTURES OR WHERE NEW CONCRETE SURFACE ABUTS EXISTING CONCRETE SURFACE.
- 7. CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL EXISTING SITE CONDITIONS DISTURBED BY CONSTRUCTION ACTIVITIES BACK TO EXISTING OR BETTER CONDITIONS. RESTORATION AND CLEANUP SHALL BE COMPLETE PRIOR TO ACCEPTANCE OF THE JOB.
- 8. ALL WORK DONE IN PUBLIC RIGHT-OF-WAY SHALL MEET THE REQUIREMENTS AND SPECIFICATIONS OF THE GOVERNING AUTHORITY.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING NEWLY PAVED AREAS THAT SHOW DIFFERENTIAL SETTLEMENT OR RANDOM CRACKING AT ENGINEERSS DISCRETION.

GRADING AND DRAINAGE NOTES:

- JURISDICTION

UTILITY NOTES:

- IMMEDIATELY.

SEDIMENTATION AND EROSION CONTROL NOTES

- GRADING.
- GRADING.

1. CONTRACTOR SHALL MODIFY THE EROSION CONTROL PLAN AS NEEDED TO ELIMINATE SEDIMENTATION FROM LEAVING THE SITE AS SITE CONDITIONS CHANGE.

2. EXISTING UTILITIES TO REMAIN ARE TO BE ADJUSTED TO MATCH PROPOSED GRADE.

3. CONTRACTOR SHALL SPREAD 4" TOPSOIL AND INSTALL SEED AND FERTILIZER ON ALL DISTURBED EARTH SURFACES RESULTING FROM THE CONTRACTOR'S OPERATIONS, UNLESS SHOWN OTHERWISE. RE-SEED AND MAINTAIN UNTIL THE SEED HAS TAKEN ROOT.

4. AREAS THAT ARE TO BE SODDED OR SEEDED SHALL BE RELATIVELY FREE OF WEEDS AT TIME OF FINAL ACCEPTANCE.

5. ALL IMPORTED FILL SHALL BE FREE OF ORGANIC MATERIAL

6. MAXIMUM LAWN GRADE SLOPE SHALL BE 3:1, UNLESS SHOWN OTHERWISE.

7. MAXIMUM WALK CROSS SLOPE SHALL BE 2%. MAXIMUM LINEAR GRADE SHALL BE 5%.

8. CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING SWPPP AND KEEPING STORM WATER SYSTEM CLEAN DURING CONSTRUCTION. COMPLY WITH AEROJET STORMWATER POLLUTION PREVENTION PLAN - AVAILABLE UPON REQUEST.

9. CONTRACTOR IS RESPONSIBLE FOR PURSUING AND OBTAINING ALL NECESSARY STORM WATER PERMITS AND FOLLOWING ALL LOCAL STORM WATER DETENTION/RETENTION AND OUTFALL REQUIREMENTS OF THE AUTHORITY HAVING

10. CONTRACTOR SHALL MEET ALL OSHA REQUIREMENTS AND/OR COMPARABLE OSHA-APPROVED STATE PLAN REQUIREMENTS FOR TRENCHING AND EXCAVATION.

1. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO EXCAVATING. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.

2. ALL WORK WITHIN PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE GOVERNING AUTHORITY.

3. THERE ARE NUMEROUS PUBLIC AND PRIVATE UTILITIES WITHIN AND ADJACENT TO THE LIMITS OF CONSTRUCTION AND AN ATTEMPT HAS BEEN MADE TO INDICATE THEIR PRESENCE ON THE PLAN. PRIOR TO BEGINNING ANY TYPE OF EXCAVATION THE CONTRACTOR SHALL CONTACT THE VARIOUS UTILITY COMPANIES AND MAKE ARRANGEMENTS FOR LOCATION OF THE UTILITY ON THE GROUND. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN THE UTILITY LOCATION MARKINGS UNTIL THEY ARE NO LONGER NEEDED. EXISTING AND ABANDONED UTILITY LOCATIONS ARE UNKNOWN. SURVEY MARKERS ARE APPROXIMATE LOCATIONS ONLY. ALL UTILITIES ARE TO BE RELOCATED PRIOR TO CONSTRUCTION.

4. ALL UTILITIES SHOWN FOR REMOVAL BACK TO MAIN SHALL BE REMOVED AND CAPPED PER UTILITY STANDARD REQUIREMENTS. UTILITY REMOVAL SHALL BE COORDINATED WITH THE UTILITY AND THE OWNER. 72 HOURS WRITTEN NOTICE SHALL BE GIVEN TO THE OWNER AND UTILITY PRIOR TO DEMOLISHING ANY UTILITY.

5. CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER OF ANY DAMAGED OR INTERRUPTED UTILITIES

6. EXISTING UTILITIES THAT ARE TO REMAIN ARE TO BE PROTECTED AND ADJUSTED TO MATCH NEW GRADE

7. ANY MAJOR REVISION TO LOCATION OF WATER OR SANITARY SEWER TIE-INS, MANHOLES, METERS, ETC, NEED TO HAVE DRAWINGS RE-SUBMITTED TO ARKANSAS DEPARTMENT OF HEALTH AND HIGHLAND INDUSTRIAL PARK FOR RE-APPROVAL.

8. DIG CAREFULLY. STATE LAWS GENERALLY PROHIBIT THE USE OF MECHANIZED EQUIPMENT WITHIN 18-24 INCHES OF A MARKED UTILITY, WHICH IS CALLED THE "TOLERANCE ZONE". CONTACT THE PROPER LOCAL AGENCY PRIOR TO DIGGING.

9. CONTRACTOR SHALL MEET ALL OSHA REQUIREMENTS AND/OR COMPARABLE OSHA-APPROVED STATE PLAN REQUIREMENTS FOR TRENCHING AND EXCAVATION.

1. ALL AREAS OF THE SITE EXPOSED BY CONSTRUCTION ACTIVITY AND LEFT UNDISTURBED FOR 21 DAYS MUST BE MULCHED WITHIN 14 DAYS OF LAST DISTURBANCE.

2. IF ADDITIONAL CLEARING IS NECESSARY, THE CONTRACTOR SHALL INSTALL EROSION CONTROL STRUCTURES AND DEVICES AND TREE PRESERVATION FENCING.

3. ALL AREAS WITHIN PAVED AREAS ARE TO RECEIVE A GRAVEL BASE TO PROVIDE EROSION CONTROL IF WORK IS NOT PROGRESSING IN AN ORDERLY MANNER. A RATE OF 135 TONS/ACRE IS TO BE APPLIED WITHIN TWO WEEKS OF FINAL

4. ALL AREAS NOT WITHIN THE PARKING LOT ARE TO RECEIVE LOOSE STRAW TO PROVIDE EROSION CONTROL IF WORK IS NOT PROGRESSING IN AN ORDERLY MANNER. A RATE OF 2 TONS/ACRE IS TO BE APPLIED WITHIN TWO WEEKS OF FINAL

5. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING BMP'S. POSTING SWPPP ON SITE AND MONITORING/MAINTAINING EROSIONS CONTROL MEASURES.

6. ANY DAMAGE TO PUBLIC STORM WATER SYSTEM DUE TO LACK OF MAINTAINING BMP'S WILL BE THE CONTRACTOR'S RESPONSIBILITY TO CLEAN OR REPAIR TO THE SATISFACTION OF THE ENGINEER OR LOCAL AUTHORITY.

7. CONTRACTOR SHALL MODIFY THE EROSION CONTROL PLAN AS NEEDED TO ELIMINATE SEDIMENTATION FROM LEAVING THE SITE AS SITE CONDITIONS CHANGE.

8. CONTRACTOR SHALL PREVENT OFF-SITE TRACKING OF CONSTRUCTION SEDIMENT AND RUNOFF TO ADJACENT PROPERTY AND PUBLIC ROADS.

9. THE CONTRACTOR OR THEIR REPRESENTATIVE IS RESPONSIBLE FOR CONTROLLING EROSION AND DISCHARGE OF SEDIMENT FROM THE SITE AT ALL TIMES DURING CONSTRUCTION. THE PERMITTEE OR THEIR REPRESENTATIVE SHALL

PROVIDE NECESSARY MEASURES DURING ALL PHASES OF CONSTRUCTION AND SHALL MAINTAIN AND REPLACE CONTROLS AS NECESSARY DURING CONSTRUCTION TO PREVENT THE MOVEMENT OF SEDIMENT DOWNSTREAM.

- SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE SWPPP.
- 11. A COPY OF THE SWPPP AND INSPECTION REPORTS MUST BE DISPLAYED AT THE CONSTRUCTION SITE.
- STORM DRAIN OR WATERWAYS IS PROHIBITED.
- CONDITIONS WARRANT.
- TOPSOIL STOCKPILES.
- PUMPED WATER FILTER BAG DISCHARGING OVER NON DISTURBED AREAS.
- OF ALL SOIL STOCKPILES ON SITE AS WELL AS OFF-SITE BORROW AND FILL AREAS.
- 18. THE CONTRACTOR OR THEIR REPRESENTATIVE SHALL STABILIZE ALL DISTURBED AREAS NOT SUBJECT TO CONSTRUCTION ACTIVITY WITHIN 14 CALENDAR DAYS AFTER ACTIVITY HAS CEASED.
- MEASURES.
- AND PRIOR TO FINAL APPROVAL OF CONSTRUCTION.
- MOVEMENTS.
- REMOVED. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS SHALL BE STABILIZED IMMEDIATELY.
- STORMWATER SYSTEM PRIOR TO FINAL SITE STABILIZATION APPROVAL.
- MANAGEMENT, AND PROHIBITED DISCHARGES.

25. CONTRACTOR OR THEIR REPRESENTATIVE SHALL MEET ALL OTHER STATE AND FEDERAL CLEAN WATER REQUIREMENTS.

10. THE CONTRACTOR OR THEIR REPRESENTATIVE IS RESPONSIBLE FOR INFORMING ALL PARTIES ON THE CONSTRUCTION

12. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE CLEANED AND SWEPT AT THE END OF EACH WORKING DAY AT A MINIMUM, MORE FREQUENTLY IF SEDIMENT TRACK OUT IS HEAVY. WASHING OF ACCUMULATED SEDIMENT INTO THE

13. DUST SHALL BE CONTROLLED DURING CONSTRUCTION AND CONSTRUCTION AREAS SHALL BE WATERED WHENEVER

14. SEDIMENT REMOVED FROM EROSION AND SEDIMENT CONTROLS AND FACILITIES SHALL NOT BE PLACED ON STEEP SLOPES, WETLANDS, FLOODPLAINS OR DRAINAGE SWALES AND SHALL BE IMMEDIATELY STABILIZED, OR PLACED IN

15. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE THROUGH AN APPROVED SEDIMENT CONTROL BMP, SUCH AS A

16. THE CONTRACTOR OR THEIR REPRESENTATIVE IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND STABILIZATION

17. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT DEPOSITION, THE CONTRACTOR OR THEIR REPRESENTATIVE SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT DEPOSITION.

19. PERMANENT SWALES OR OTHER POINTS OF CONCENTRATED WATER FLOW SHALL BE STABILIZED WITHIN 7 CALENDAR DAYS OF ESTABLISHMENT WITH SOD OR SEED WITH APPROVED EROSION CONTROL MATTING OR BY OTHER APPROVED

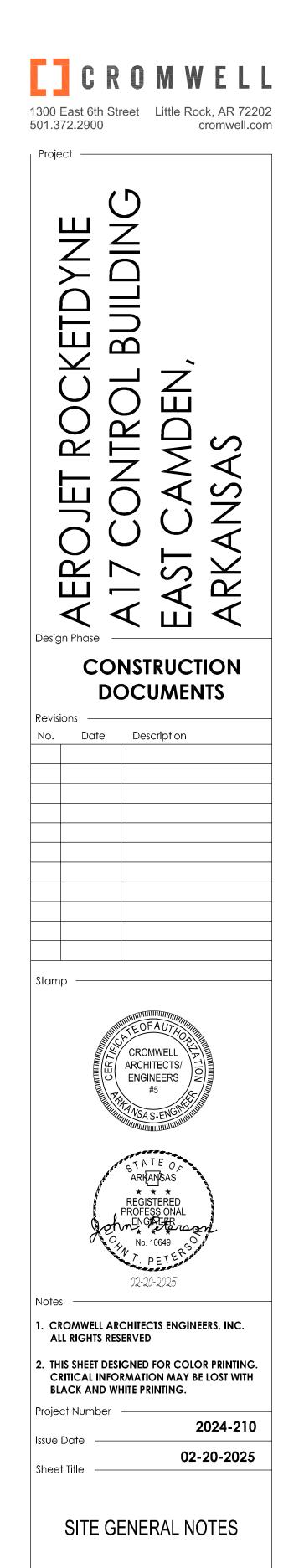
20. ALL DISTURBED AREAS NOT RECEIVING OTHER PERMANENT STABILIZATION SUCH AS PAVEMENT, ROOFS, SOD, ETC., SHALL BE SEEDED AND MULCHED, AS SPECIFIED IN THE SWPPP BEFORE TEMPORARY SEDIMENT CONTROLS CAN BE REMOVED

21. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER

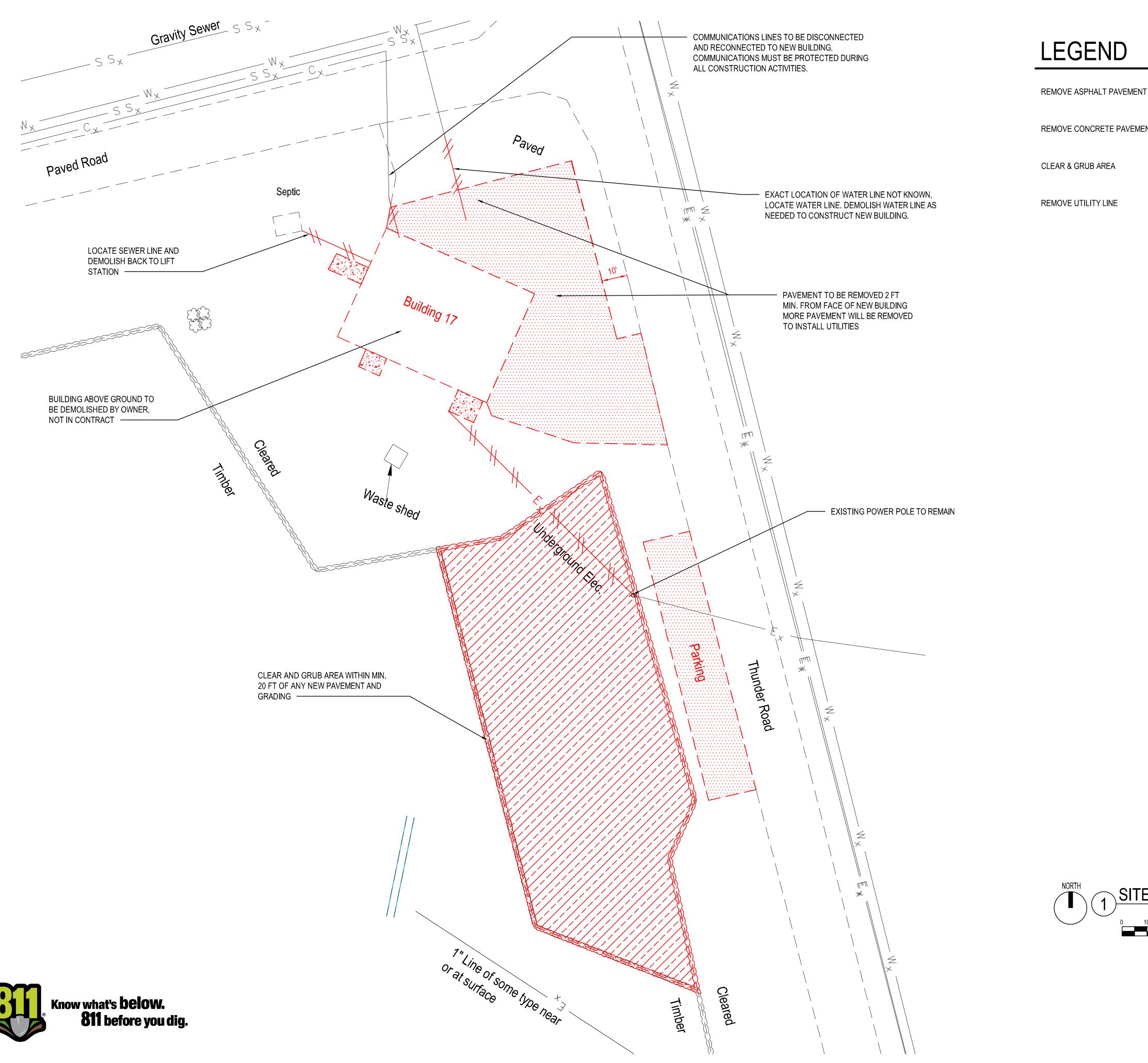
22. AFTER FINAL STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENTATION CONTROLS SHALL BE

23. SILT AND DEBRIS MUST BE REMOVED FROM STORM DRAINS, CONVEYANCE CHANNELS, BASINS OR ANY PART OF THE

24. THE FOLLOWING WILL BE IMPLEMENTED ACCORDING TO LOCAL, STATE, AND FEDERAL REGULATIONS: LIQUID AND SOLID WASTE MANAGEMENT, CHEMICAL AND MATERIAL DELIVERY AND STORAGE, CONCRETE WASTE, PAINTING AND DRYWALL WORK, VEHICLE FUELING, MAINTENANCE AND CLEANING, ASPHALT, SAWCUTTING, CORING, AND GRINDING ACTIVITIES, BUILDING BLASTING AND CLEANING, CEMENT, GROUT AND MORTAR WORK, SANITARY AND SEPTIC WASTES, WATER LINE DISINFECTION, FLUSHING, DEWATERING, AND OTHER NON-STORMWATER DISCHARGES, HAZARDOUS WASTE



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SITE DEMOLITION PLAN

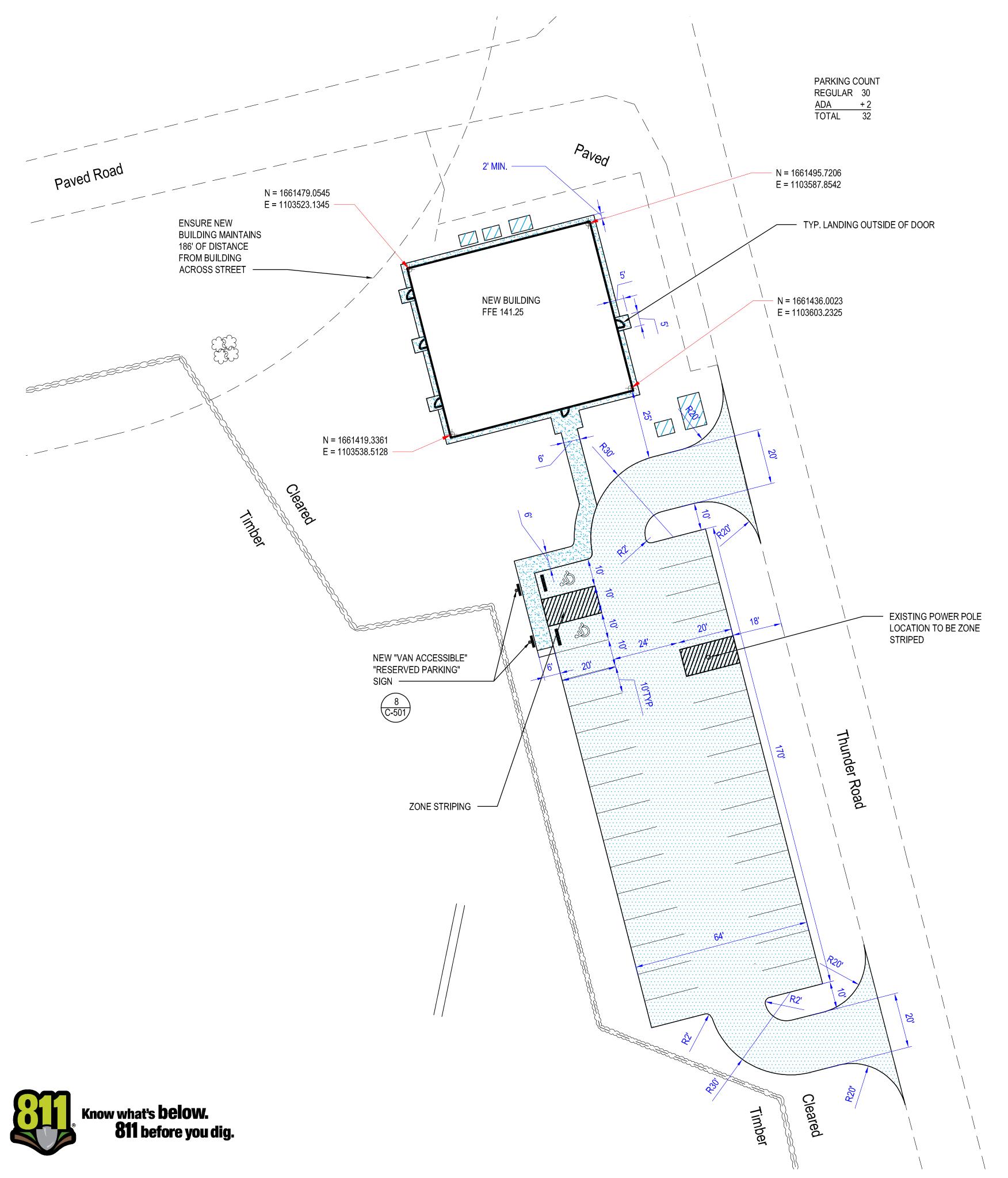


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Project

1300 East 6th StreetLittle Rock, AR 72202501.372.2900cromwell.com

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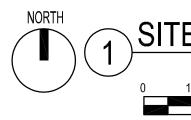
NEW ASPHALT PAVEMENT

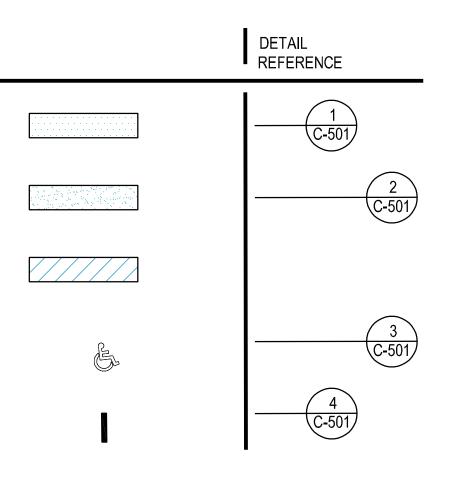
NEW CONCRETE SIDEWALK

NEW PAD FOR GENERATOR SEE ELECTRICAL

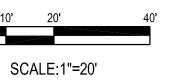
HANDICAP PARKING SYMBOL

WHEEL STOP

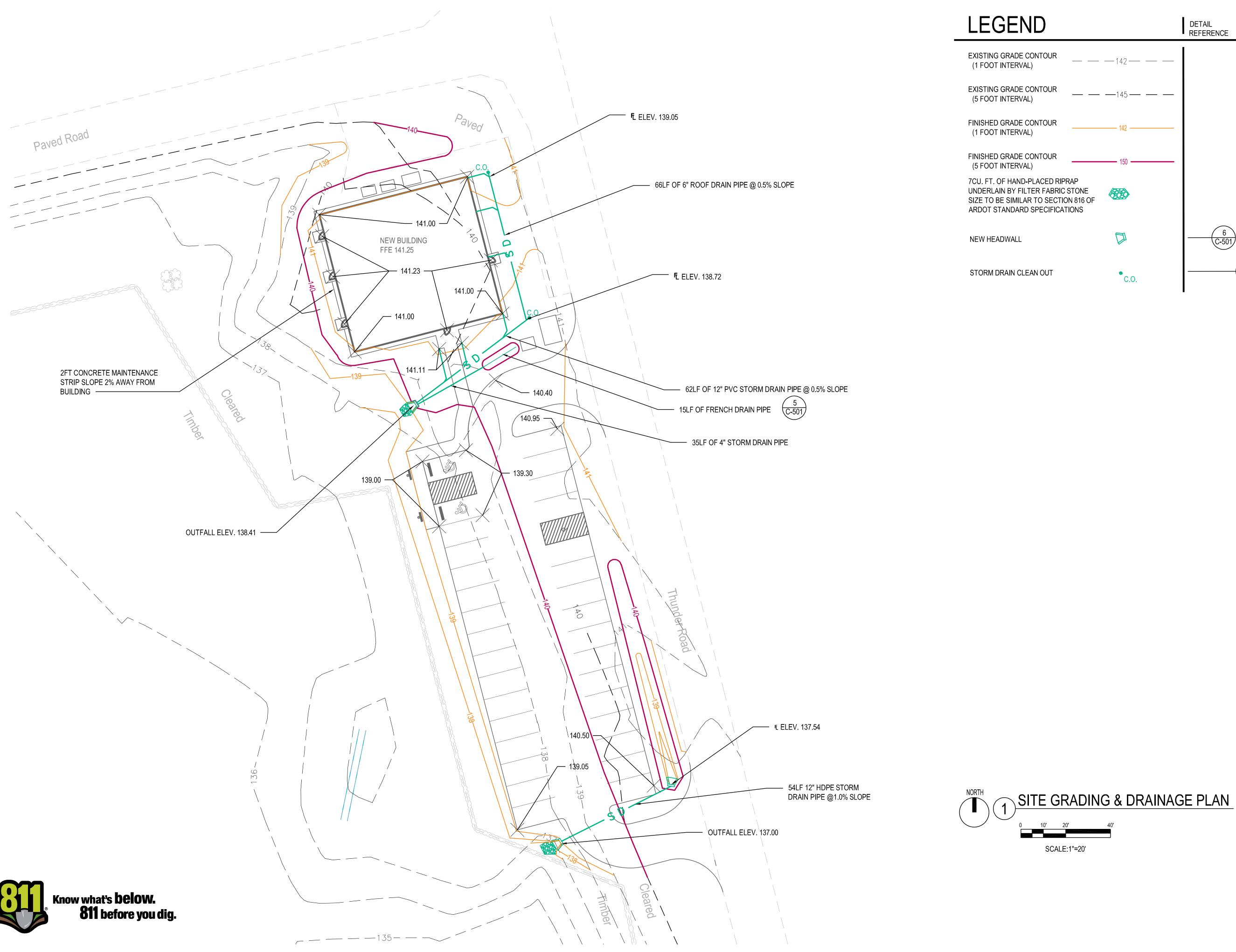




SITE LAYOUT PLAN



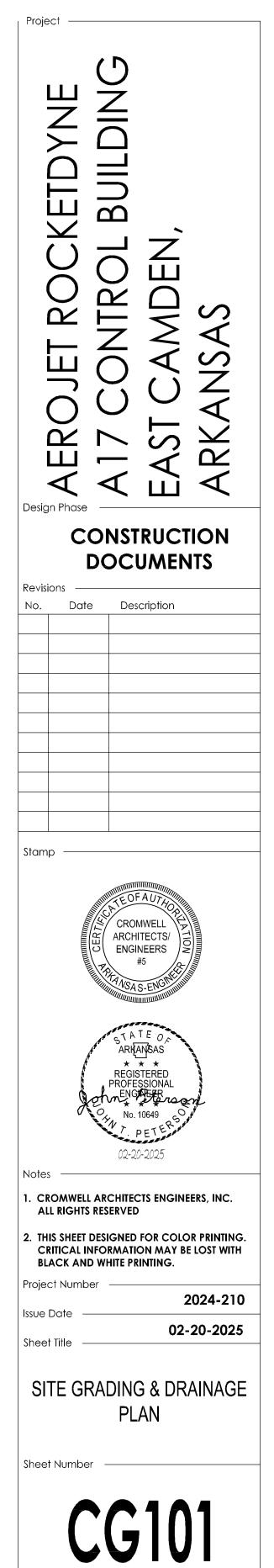
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| Project |
| AEROJET ROCKETDYNE A17 CONTROL BUILDING EAST CAMDEN, ARKANSAS |
| Design Phase |
| CONSTRUCTION DOCUMENTS |
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| Sheet Title |
| SITE LAYOUT PLAN |
| Sheet Number |
| CS101 |

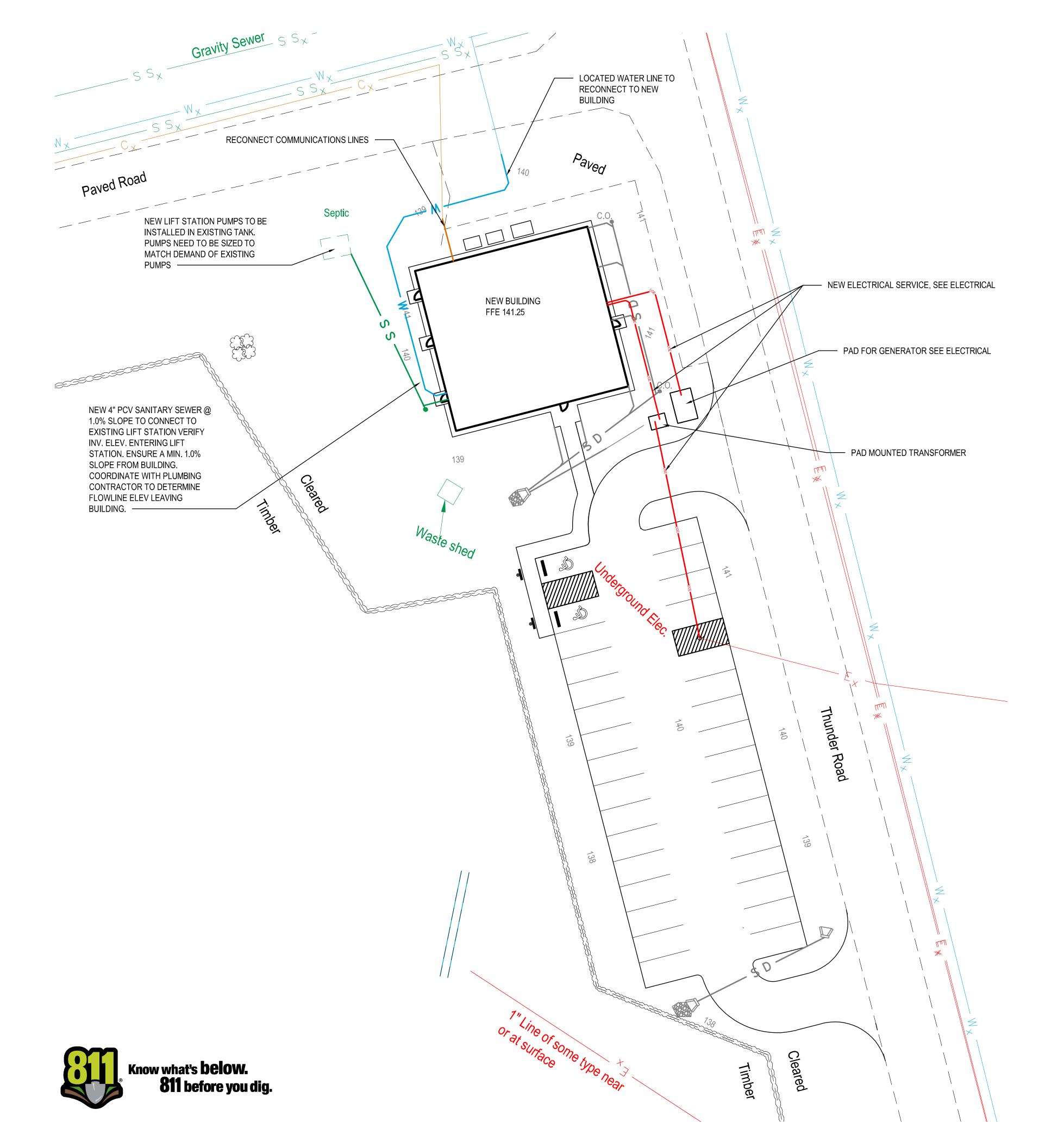


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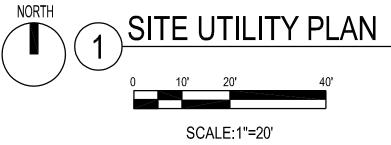


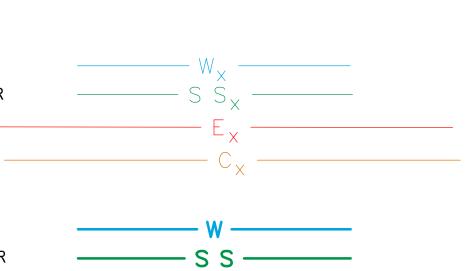


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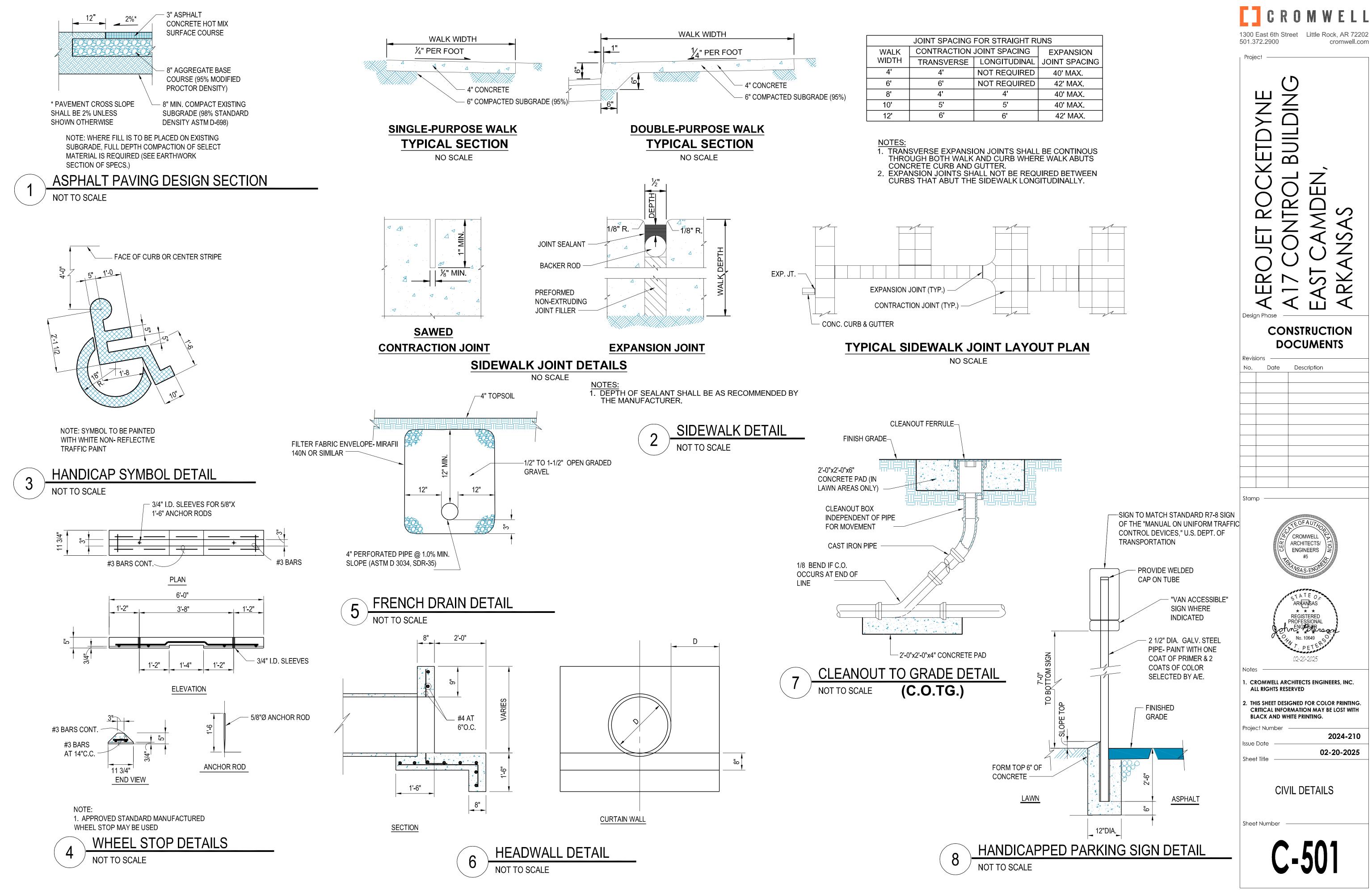
EXISTING UTILITY LINE W=WATER SS=SANITARY SEWER O.H.E.=OVERHEAD ELECTRIC C = COMMUNICATIONS -

NEW UTILITY LINE W=WATER SS=SANITARY SEWER





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| Project | | | | | |
| AEROJET ROCKETDYNE A17 CONTROL BILL DING | EAST CAMDEN, ARKANSAS | | | | |
| CON | STRUCTION | | | | |
| DO Revisions | CUMENTS | | | | |
| No. Date | Description | | | | |
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| Stamp | | | | | |
| | ITECTS ENGINEERS, INC. | | | | |
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| Project Number 2024-210 | | | | | |
| Issue Date 02-20-2025 Sheet Title | | | | | |
| SITE UTILITY PLAN | | | | | |
| CU101 | | | | | |



| RAIGHT RUNS | | | | |
|-------------|---------------|--|--|--|
| PACING | EXPANSION | | | |
| ITUDINAL | JOINT SPACING | | | |
| EQUIRED | 40' MAX. | | | |
| EQUIRED | 42' MAX. | | | |
| 4' | 40' MAX. | | | |
| 5' | 40' MAX. | | | |
| 6' | 42' MAX. | | | |
| | | | | |

| | REVIATIONS | STRUCTUR | AL DESIGN (| CRITERIA | | |
|---|------------------------------------|--|------------------------|---|------------|------------|
| #XX | NUMBER | BUILDING CODE: 2021 ARKANSAS FIRE | E PREVENTION CODE (B | ASED ON 2021 IBC) | | 5. |
| A.F.F. | ABOVE FINISHED FLOOR | RISK CATEGORY (2021 IBC TABLE 1604 | I.5): | | | 6. |
| ADD'L | | | , | | | |
| ADJ ARCH. | ADJACENT ARCHITECTURAL | GRAVITY LOADS (REFERENCE: 2021 IB | C & ASCE 7-16): | | | 7. |
| B.F.F. | BELOW FINISHED FLOOR | DEAD LOADS: ROOF | UNIFORM MATERIAL WE | IGHTS | C. | STA |
| BLDG. | BUILDING | COLLATERAL | 6 PSF | | 0. | 1. |
| BOT BTWN | BOTTOM BETWEEN | CABLE TRAY | 10 PLF (SEE E | LEC) | | 2. |
| CJ | CONTROL/ | FLOOR LIVE LOADS: | UNIFORM | CONCENTRATED | | |
| | CONSTRUCTION/ CONTRACTION JOINT | OFFICES PARTITIONS | 50 PSF 15 PSF | 2000 LBS | | 3. |
| CJP | COMPLETE JOINT | MECHANICAL ROOMS | 150 PSF | | | |
| CL | PENETRATION CENTER LINE | (FLOOR LIVE LOADS ARE RED | JUCED IN ACCORDANCE | WITH IBC SECTION 1607.10) | | - |
| CLR. | CLEAR | ROOF LIVE LOADS: | | 20 PSF (NON-REDUCIBLE) | | 4. |
| COL. CONC. | COLUMN CONCRETE | RAIN LOADS: | | | | |
| CONN. CONT. | CONNECTION CONTINUOUS | 15 MINUTE DURATION / 100 YF 60 MINUTE DURATION / 100 YF | | i15 = 6.74 IN./H i60 = 3.60 IN./H | | 5. |
| DBA | DEFORMED BAR | | | 100 - 3.00 111./11 | D. | GEN |
| DIA | ANCHOR DIAMETER | SNOW LOADS: GROUND SNOW LOAD | | Pg = 10 PSF | | 1. |
| DTL | DETAIL | FLAT ROOF SNOW LOAD | | Pf = 8.4 PSF | | |
| E.F. EA. | EACH FACE EACH | SLOPED ROOF SNOW LOAD SNOW LOAD IMPORTANCE FA | CTOR | Ps = 8.4 PSF ls = 1.00 | | 2. |
| ELEV. | ELEVATION | SNOW EXPOSURE FACTOR | | Ce = 1.2 | | 3. |
| EW EXP. | EACH WAY EXPANSION | THERMAL FACTOR | | Ct = 1.0 | | 4. |
| F | FINISHED FLOOR | LATERAL LOADS (REFERENCE: 2021 I | BC & ASCE 7-16): | | | F |
| FLR FS | FLOOR FAR SIDE | WIND: | | | | 5. / 6. |
| TG | FOOTING | ULTIMATE WIND SPEED | | Vult = 104 MPH | | |
| G.C. | GENERAL CONTRACTOR | NOMINAL WIND SPEED TERRAIN EXPOSURE | | Vasd = 81 MPH C | | |
| GA. | GAUGE | INTERNAL PRESSURE COEFF | | +/- 0.18 | | 7. |
| GALV. H.S. | GALVANIZED HIGH STRENGTH | COMPONENTS & CLADDING W | VIND LOAD | SEE SHEET S-001 | | |
| HORIZ. | HORIZONTAL | SEISMIC: | | | | 8. |
| D JT. | INSIDE DIAMETER JOINT | SEISMIC IMPORTANCE FACTO MAPPED SPECTRAL RESPONS | | le = 1.0 Ss = 0.188 | | |
| K or k | KIP (1,000 LBS) | | | S1 = 0.098 | E . | SHO |
| (CJ | KEYED CONTROL JOINT | SITE CLASS DESIGN SPECTRAL RESPONS | E ACCELERATIONS | D SDS = 0.200 | | 1. |
| (SI | KIPS PER SQUARE | | | SD1 = 0.157 | | i |
| _ | INCH ANGLE | SEISMIC DESIGN CATEGORY SEISMIC FORCE RESISTING S | | C STEEL SYSTEMS NOT SPECIFICALLY | | |
| BS | POUNDS | | | DESIGNED FOR SEISMIC | | 2. |
| | LINEAL FOOT MANUFACTURER | DESIGN BASE SHEAR | | RESISTANCE V = 0.067W | | 2. 3. |
| | MATERIAL | SEISMIC RESPONSE COEFFIC | | Cs = 0.067 | | |
| MAX. MECH. | MAXIMUM MECHANICAL | RESPONSE MODIFICATION CO ANALYSIS PROCEDURE | JEFFICIENT | R = 3 EQUIVALENT LATERAL FORCE | | |
| MIN. MISC | MINIMUM MISCELLANEOUS | | | N: SEE SPECIFICATION SECTION 014533 | | |
| N.T.S. | NOT TO SCALE | STSTEMS AND COMPONENTS REQUIR | ING SPECIAL INSPECTIC | IN. SEE SPECIFICATION SECTION 014555 | | 4. |
| NS Ø | NEAR SIDE DIAMETER | STRUCTURAL DESIGN APPROACH: | | | | |
| 0.C. | ON CENTER | THIS PROJECT CONSISTS OF A METAL | | | | 5. |
| OD OPP | OUTSIDE DIAMETER OPPOSITE | SUPPORTED ON RIGID FRAMES. THE E | | | | |
| PAF | POWDER ACTUATED | RIGID FRAMES. ROOF DIAPHRAGM IS | •••••• | | | |
| ۶L | FASTENER PLATE | | | | F. | EAR |
| PLBG | PLUMBING | стристи | | | 1 | 1. |
| PSF | POUNDS PER SQ FOOT | 3180610 | JRAL GENER | | | 2. |
| PSI | POUNDS PER SQ INCH | A. CONTRACTOR DELEGATED DESIG | | DESIGN COMPONENT AND SHALL BE | | 1 |
| REINF. REQ'D. | REINFORCEMENT REQUIRED | DESIGNED BY THE CONTRACT | | | | |
| SC | SLIP CRITICAL | STRUCTURAL ENGINEER LICE ITEMS: | NSED IN THE STATE OF | ARKANSAS TO DESIGN THE FOLLOWING | | 3. |
| SECT. SHT. | SECTION SHEET | a. SHORING AND TEMPORA | RY STRUCTURES | | | |
| SIM. | SIMILAR | b. METAL BUILDING SYSTEM 2. THE CONTRACTOR SHALL SUB | | | | 4. |
| SJ SPA. | SAWN JOINT SPACE | | | DRAWINGS AND CALCULATIONS SHALL | | 4. |
| SQ | SQUARE | | | JRAL ENGINEER. THE DRAWINGS SHALL RACTOR AND THE DESIGN ENGINEER | | 5. |
| STD. T&B | STANDARD TOP AND BOTTOM | PRIOR TO SUBMITTAL. INCOM | IPLETE SHOP DRAWING | S AND SHOP DRAWINGS THAT HAVE NOT | | |
| Г.О.F. | TOP OF FOOTING | BEEN REVIEWED BY THE CON RETURNED WITHOUT REVIEW | | CIALTY STRUCTURAL ENGINEER WILL BE | | <u> </u> |
| Г.О.S. | TOP OF STEEL or TOP OF SLAB | 3. THE CONTRACTOR SHALL CO | ORDINATE THE LOCATIO | NS OF ALL DELEGATED DESIGN | | 6. |
| Г.О.W. | TOP OF WALL | COMPONENTS AND THEIR ACC JOIST BRIDGING AND FIRE SU | | R TRADES TO AVOID CONFLICTS, e.g., | | 7. |
| rc Fhru | TENSION CONTROL THROUGH | | | | | - |
| TYP. | TYPICAL | B. SPECIAL INSPECTIONS: | | SPECTIONS AND TESTS AND FURNISH | | 8. |
| J.N.O. | UNLESS NOTED OTHERWISE | REPORTS AS SPECIFIED IN SE | CTION 014533 AND IN AC | CORDANCE WITH CHAPTER 17, | | 9. |
| VERT. | | INTERNATIONAL BUILDING CO | | INSPECTIONS AND TESTING SERVICES | | |
| OR V W | VERTICAL WIDE FLANGE | WITH THE PROGRESS OF THE | WORK, PROVIDE THE AI | PPROPRIATE DOCUMENTATION AND | | |
| N.W.R. | WELDED WIRE REINF. | PERFORM OTHER TASKS AS S 3. CONSTRUCTION THAT REQUIR | | 14533. ECTION PER SECTION 014533 CAN NOT | | |
| n/ WP | WITH WORK POINT | PROGRESS WITHOUT INSPEC | | LUTION FER JEUTION U14333 UAN NUT | | |
| | SECTION/DETAIL "X" | 4. THE CONTRACTOR IS RESPON | SIBLE FOR ALL OTHER | INSPECTIONS OR TESTS IN THE | | |
| X/S-YYY | | | | | | |
| <x#< td=""><td>ON SHEET "S-YYY" POUNDS</td><td>SPECIFICATIONS, NOT LISTED SECTION 014533.</td><td>IN THE SCHEDULE OF S</td><td>PECIAL INSPECTION SERVICES IN</td><td></td><td></td></x#<> | ON SHEET "S-YYY" POUNDS | SPECIFICATIONS, NOT LISTED SECTION 014533. | IN THE SCHEDULE OF S | PECIAL INSPECTION SERVICES IN | | |

STRUCTURAL GENERAL NOTES

E CONTRACTOR IS RESPONSIBLE FOR THE COST OF REPAIR, REINSPECTION AND RETESTING FOR ITEMS THAT DO OT PASS THE INSPECTIONS OR TESTS.

ECIAL INSPECTION SERVICES DO NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR COMPLIANCE WITH HER CONSTRUCTION DOCUMENT REQUIREMENTS OR REGULATORY REQUIREMENTS.

IE CONTRACTOR IS RESPONSIBLE FOR THE COST OF DEMOLITION, RECONSTRUCTION, INSPECTION AND TESTING OF VY WORK COMPLETED WITHOUT INSPECTION AND TESTING AS SPECIFIED IN SECTION 014533.

LITY DURING CONSTRUCTION, SHORING, & TEMPORARY STRUCTURES:

RMANENT STABILITY OF THE BUILDING AND COMPONENTS IS NOT PROVIDED UNTIL ALL THE STRUCTURAL ELEMENTS: RE INSTALLED AS SHOWN ON THE CONTRACT DRAWINGS.

OVIDE STABILITY TO ALL NON-SELF SUPPORTING ELEMENTS UNTIL PERMANENT STRUCTURAL SUPPORTS ARE STALLED. PROVIDE BRACING. SHORING. AND/OR TEMPORARY STRUCTURES AS REQUIRED IN ORDER TO SATISFY HE CONTRACT REQUIREMENTS.

ROVIDE ALL BRACING NECESSARY TO STABILIZE THE BUILDING DURING THE ERECTION PROCESS. BRACING SHALL BE SIGNED AND INSTALLED SUCH THAT IT DOES NOT TWIST OR DISTORT MEMBERS. BRACING SHALL BE DESIGNED FOR DADS AS REQUIRED BY APPLICABLE CODES. THE DESIGN OF THE BRACING SHALL TAKE INTO ACCOUNT FORCES DUE THERMAL EXPANSION AND CONTRACTION OF THE BUILDING FRAME AND BRACES

ICHOR RODS FOR STEEL COLUMNS ARE NOT DESIGNED TO STABILIZE STRUCTURE BY PROVIDING FIXITY OF THE OLUMN BASE. PROVIDE TEMPORARY BRACING FOR STABILITY DURING THE ERECTION PHASE UNTIL ALL LATERAL DAD RESISTING ELEMENTS ARE IN PLACE AND WELDING AND/OR BOLTING INSPECTIONS ARE COMPLETE. OMPLY WITH ALL APPLICABLE OSHA SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION.

AL REQUIREMENTS:

FRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH DRAWINGS RELATING TO OTHER TRADES. CHECK ND COORDINATE DIMENSIONS, CLEARANCES, OPENINGS, PIPE SLEEVES, CURBS, ETC. WITH THE WORK OF OTHER ADES.

ORK NOT INDICATED ON A PART OF THE DRAWING BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT RRESPONDING PLACES SHALL BE REPEATED.

ETAILS DESIGNATED AS "TYPICAL" APPLY TO ALL AREAS WHERE THE CONDITIONS ARE SIMILAR TO THOSE DESCRIBED THE DETAIL.

IE PLANS AND DETAILS IN THE CONTRACT DRAWINGS SHALL NOT BE REVISED WITHOUT PRIOR APPROVAL BY THE CHITECT/ENGINEER.

. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS. INCIPAL OPENINGS THROUGH THE FRAMING ARE SHOWN ON THESE DRAWINGS. EXAMINE THE DRAWINGS FOR

EQUIRED OPENINGS AND PROVIDE FOR ALL OPENINGS WHETHER SHOWN ON THE STRUCTURAL DRAWINGS OR NOT. RIFY SIZE AND LOCATION OF ALL OPENINGS WITH ALL SUB-CONTRACTORS. PIPE SLEEVES THROUGH THE DECK LL NOT REQUIRE ADDITIONAL FRAMING UNLESS THE DIAMETER EXCEEDS 10"

LICING OF STRUCTURAL MEMBERS WHERE NOT DETAILED IS PROHIBITED WITHOUT PRIOR APPROVAL OF CHITECT/ENGINEER. IF APPROVED, ADDITIONAL TESTING AND INSPECTION SHALL BE AS SPECIFIED BY THE CHITECT/ENGINEER AND PAID FOR BY THE CONTRACTOR.

CHANGE IN SIZE OR POSITION OF THE STRUCTURAL ELEMENTS SHALL BE MADE: HOLES, SLOTS, CUTS, ETC., ARE OT PERMITTED THROUGH ANY MEMBER UNLESS THEY ARE DETAILED ON THE APPROVED SHOP DRAWINGS.

RAWINGS:

BMIT SHOP DRAWINGS FOR REVIEW BY THE ARCHITECT/ENGINEER FOR THE FOLLOWING ITEMS. REFER TO OJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS:

- CONCRETE REINFORCING STEEL
- . INDICATE ALL REINFORCING STEEL IN FOUNDATIONS, SLABS ON GRADE
- INDICATE ALL HORIZONTAL, VERTICAL, AND TIE REINFORCING

3. INDICATE TYPE AND LOCATION OF ALL REINFORCING STEEL SPLICES

BMIT OTHER SHOP DRAWINGS FOR REVIEW BY ARCHITECT/ENGINEER AS REQUIRED BY PROJECT SPECIFICATIONS. TAILS FOR SOME SPECIAL CONDITIONS WILL NEED TO BE DEVELOPED BY THE DETAILER DURING THE DETAILING OCESS. FINAL REVIEW OF THE DETAILS WILL BE AT THE DISCRETION OF THE ENGINEER OF RECORD. NO

DITIONAL CHARGES FOR MAKING CORRECTIONS, CHANGES, OR ADDITIONS TO THE SHOP DRAWINGS ("RE-DETAILING OST") WILL BE ALLOWED. CONTRACTOR SHALL MAKE PROVISIONS FOR DETAILING CORRECTIONS AND

CELLANEOUS MATERIAL IN THE BID PRICE. ADJUSTMENTS TO THE CONTRACT WILL ONLY BE MADE FOR CHANGE RDERS APPROVED PRIOR TO THE COMMENCEMENT OF ANY ACTION ON THE CHANGES.

. SHOP DRAWINGS SHALL BE REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR / CONSTRUCTION MANAGER RIOR TO SUBMITTAL. INCOMPLETE SHOP DRAWINGS AND SHOP DRAWINGS THAT HAVE NOT BEEN REVIEWED BY THE ONTRACTOR WILL BE RETURNED WITHOUT REVIEW BY THE ARCHITECT/ENGINEER.

ERIFY AND COORDINATE ALL DIMENSIONS AND ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS WITH RCHITECTURAL DRAWINGS. IN CASE OF CONFLICTS, THE ARCHITECT/ENGINEER IS TO BE NOTIFIED AND WILL ROVIDE THE CORRECT ELEVATIONS AND DIMENSIONS FOR WHICH SHALL BE INCORPORATED INTO THE SHOP RAWINGS AT NO EXTRA COST.

WORK:

UNDATION DESIGN IS BASED ON SOIL INVESTIGATION AND REPORT BY GRUBBS. HOSKYN. BARTON & WYATT. INC. OB NO.: A24184.00533).

UNDATION DESIGN IS BASED ON THE FOLLOWING MINIMUM NET ALLOWABLE BEARING PRESSURE:

CONTINUOUS FOOTINGS: 1250 PSF

INDIVIDUAL PAD FOOTINGS: 1250 PSF

FOUNDATION BEARING CONDITIONS SHALL BE VERIFIED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR CONSTRUCTION.

DTTOM OF FOUNDATION ELEVATIONS ARE GIVEN FOR BIDDING PURPOSES ONLY. ALL FOUNDATIONS SHALL BE UNDED A MINIMUM OF 2 FEET BELOW EXISTING GRADE IN PROPERLY COMPACTED SANDY GRAVEL ON-SITE FILL OR OMPACTED SELECT GRANULAR FILL.

HE SITE SHALL BE STRIPPED A MINIMUM OF 1'-0", PROOF ROLLED, COMPACTED FILL PLACED, AND EXCAVATED AS EQUIRED FOR FOUNDATION. SOME AREAS WILL REQUIRE 18" TO 24" OF STRIPPING DUE TO THICK UNDERBRUSH OR REES. SEE SPECIFICATION DIVISION 31 FOR EARTHWORK REQUIREMENTS.

MOVE 4-6 FEET OF EXISTING SUB GRADE MATERIAL UNDER THE BUILDING FROM ELEVATION 141.25 (EXTENDING 5 EET BEYOND THE BUILDING PERIMETER) AND BACKFILL AS PER SPECIFICATION DIVISION 31, EARTHWORK, USING PECIFIED BORROW MATERIAL

AKE ADEQUATE MEASURES TO ALLOW FOR WORKING SURFACE DURING CONSTRUCTION OF FOUNDATIONS AND .AB-ON-GRADE, SUCH AS GRAVEL BED OF ADEQUATE DEPTH, ETC.

ROVIDE EARTH RETENTION SYSTEMS AND TEMPORARY BRACING OR SHORING (INCLUDING UNDERPINNING) AS QUIRED TO SUPPORT EXCAVATIONS AND TO PROTECT EXISTING STRUCTURES DURING CONSTRUCTION. RENCHING AND EXCAVATIONS SHALL MEET ALL OSHA REQUIREMENTS.

ATER ACCUMULATION IS ANTICIPATED IN FOOTING EXCAVATIONS; PROVIDE DRAINAGE OF EXCAVATIONS FROM IRFACE WATER AND SEEPAGE. EXCAVATIONS SHALL BE DRAINED OR PUMPED DRY BEFORE POURING CONCRETE. ROTECT ALL UTILITY LINES, ETC. ENCOUNTERED DURING EXCAVATION AND BACKFILLING.

G. CONCRETE AND REINFORCING STEEL:

- 1. THE DESIGN OF THE CONCRETE STRUCTURE IS BASED ON ACI318-19 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
- COMPONENT
- FOOTINGS AND TIE BEAMS
- WALLS AND EXTERIOR SLABS INTERIOR SLABS ON GRADE
- SEE SPECIFICATION SECTION 033000 FOR ADDITIONAL MIX DESIGN REQUIREMENTS.
- SHEETS.
- 6. MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE: CONCRETE CAST AGAINST EARTH: CONCRETE EXPOSED TO EARTH OR WEATHER
 - #5 BARS AND SMALLER: #6 BARS AND LARGER:
 - SLABS, WALLS, AND JOISTS:
- 8. ALL CONCRETE REINFORCING STEEL SHALL BE SPLICED USING TENSION SPLICES: a. UNLESS NOTED OTHERWISE, LAP SPLICE ALL CONCRETE REINFORCING STEEL: BARS #6 AND SMALLER:
 - BARS #7 AND LARGER:
 - WELDED WIRE REINFORCING:
 - SPLICES SHALL DEVELOP 125% OF THE YIELD STRENGTH OF THE BAR.
- a. LAP GRADE BEAM AND WALL TOP REINFORCEMENT AT CENTER OF SPAN.
- b. LAP GRADE BEAM AND WALL BOTTOM REINFORCEMENT AT SUPPORT. c. STAGGER ALL TENSION LAP SPLICE LOCATIONS.
- TERMINATE CONTINUOUS BARS AT NON-CONTINUOUS END WITH STANDARD HOOKS.
- BARS IN THOSE MEMBERS.
- SPACING SHALL NOT EXCEED 3'-0".
- ARCHITECT/ENGINEER FOR APPROVAL
- LOOSENED PARTICLES, OR DAMAGED CONCRETE.
- OF COLUMN FACE.
- COORDINATED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- 18. REINFORCING BARS SHALL NOT BE WELDED.
- BEFORE CONCRETE IS PLACED.
- ARCHITECTURAL REASONS. IS BELOW 40 DEGREES FOLLOW THE RECOMMENDATIONS OF ACI 306R.

H. METAL BUILDING SYSTEMS:

- 2. THE METAL BUILDING SYSTEM MANUFACTURER SHALL:
- SPECIFICATIONS. SHALL BE ASSUMED TO BE PINNED CONDITION.

- NOT PLACE ANCHOR RODS IN WET CONCRETE.
- WITH AWS.

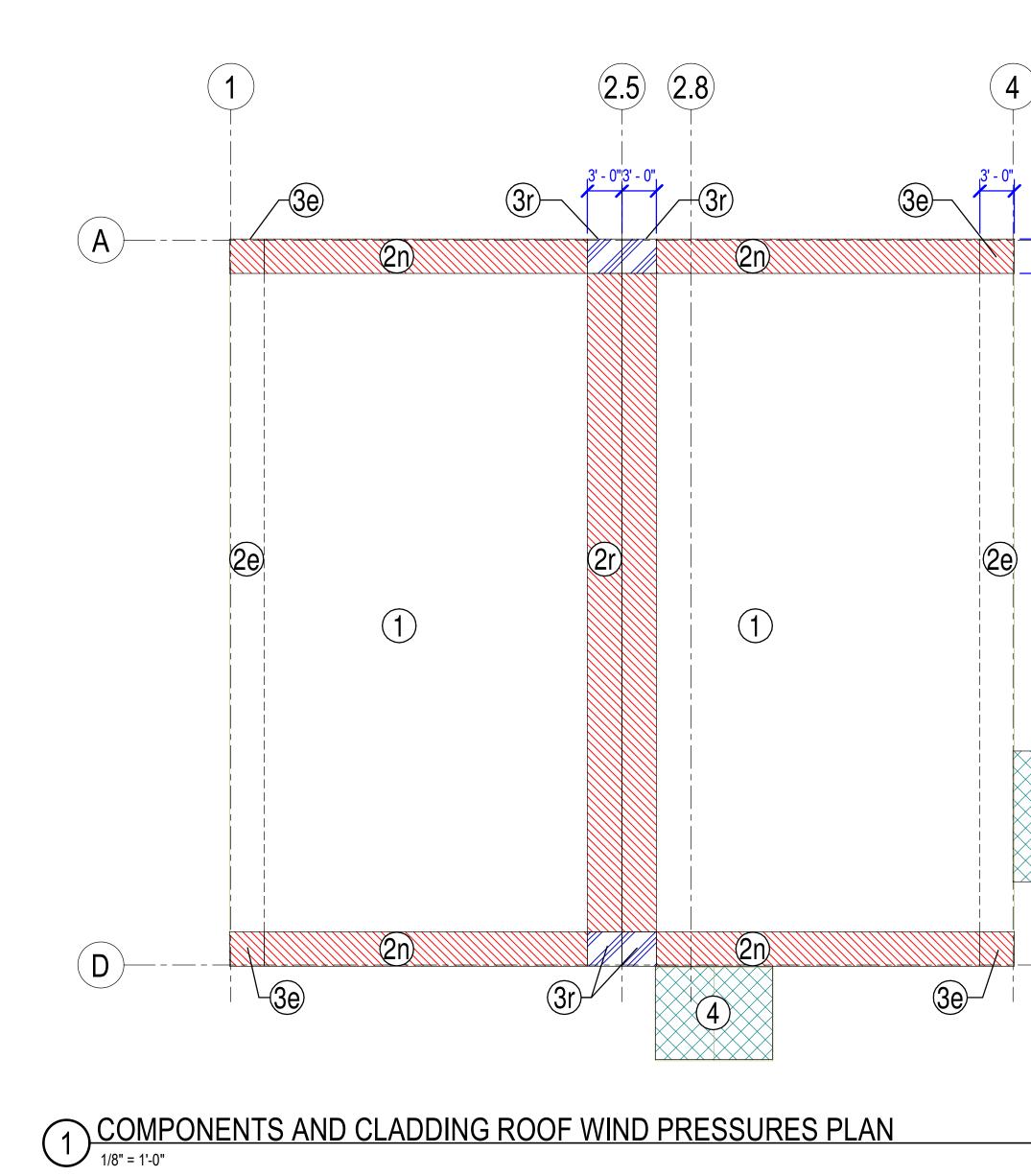
I. POST-INSTALLED ANCHORS IN CONCRETE OR MASONRY:

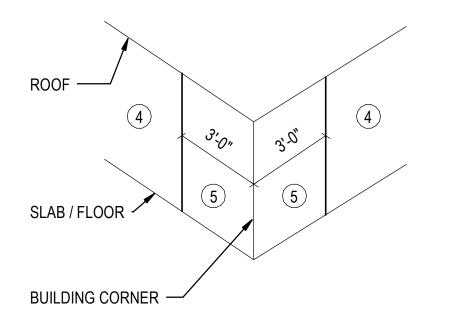


501.372.2900

| HS (fc): | Project |
|--|--|
| LL BE PROVIDED IN | KETDYNE BUILDING |
| ANCES. | ADEN, ADEN, |
| S. MECHANICAL | $\Box \subseteq A \subseteq S$ |
| OTED OTHERWISE: | $\neg \lor \lor \lor \downarrow$ |
| OTED OTHERWICE. | AST AST (|
| NG OF HORIZONTAL | $\triangleleft \triangleleft \square \triangleleft$ |
| ONAL BARS OR | Design Phase CONSTRUCTION |
| IMENSIONS. | DOCUMENTS |
| OINTS TO THE | Revisions |
| ON THE UGHENING THE NO LAITANCE, | |
| DIAMETERS ON R THAN 1/3 OF SLAB LACED WITHIN 24" | |
| RETE SHALL BE | |
| BY OTHER TRADES | |
| Y BE D. | Stamp |
| ED FOR | |
| AIR R TEMPERATURE | CROMWELL ARCHITECTS/ ENGINEERS #5 NSAS-ENGINE |
| of MBMA. | #5 |
| PLANS AND IN | |
| CATED UNDER | ARIANOAS |
| JMING OLUMN BASES | Contractor REGISTERED to hul |
| ECT/ENGINEER IF | No. 23092 |
| BUILDING | No. 23092 ANI MITCO 02-20-2025 |
| FOOTING. DO | Notes |
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| ACE ANCHORS ORDANCE WITH APMO UES | Issue Date 02-20-2025 Sheet Title |
| | GENERAL NOTES |
| | Sheet Number |
| | S-001 |

2. CAST IN PLACE CONCRETE SHALL HAVE THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTH COMPRESSIVE STRENGTH 3500 PSI 4500 PSI 3500 PSI ALL DEFORMED REINFORCING STEEL SHALL BE A615 GRADE 60 STEEL, U.N.O. ALL WELDED WIRE REINFORCING STEEL SHALL BE A1064. ALL WELDED WIRE REINFORCEMENT SHAL ALL CONCRETE WORK SHALL CONFORM TO THE LATEST ACI CODE AND ACI DETAILING MANUAL 1 1⁄2" ALL CONCRETE CONSTRUCTION AND MATERIALS SHALL BE PLACED ACCORDING TO ACI 117 TOLERA **48 BAR DIAMETERS** 60 BAR DIAMETERS ONE MESH PLUS 2" b. ONLY APPROVED MECHANICAL SPLICE SYSTEMS SHALL BE USED TO PROVIDE TENSION SPLICES ALL CONCRETE REINFORCING SHALL BE SPLICED WHERE DETAILED ON THE DRAWINGS. UNLESS NO 11. PROVIDE CORNER BARS IN ALL CONCRETE MEMBERS AT INTERSECTIONS. MATCH SIZE AND SPACING 12. ALL REINFORCING STEEL SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. ADDITION STIRRUPS SHALL BE PROVIDED AS REQUIRED TO FURNISH SUPPORT FOR ALL REINFORCING STEEL. 13. PROVIDE SUPPORT FOR ALL CONCRETE REINFORCING AS REQUIRED TO MAINTAIN CLEAR COVER DI 14. SUBMIT DRAWINGS SHOWING INTENDED POURING SEQUENCE AND LOCATION OF CONSTRUCTION JC 15. HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE PERMITTED UNLESS SPECIFICALLY DETAILED O STRUCTURAL DRAWINGS. HORIZONTAL OR NEAR HORIZONTAL JOINTS SHALL BE PREPARED BY ROU SURFACE IN AN APPROVED MANNER SO THAT THE AGGREGATE IS EXPOSED UNIFORMLY, LEAVING N PIPES OR CONDUITS PLACED IN FOUNDATIONS AND SLABS SHALL NOT BE SPACED CLOSER THAN 3 I CENTERS. PIPES AND CONDUITS PLACED IN SLAB SHALL NOT HAVE AN OUTSIDE DIAMETER LARGER THICKNESS. ALUMINUM CONDUITS SHALL NOT BE PLACED IN CONCRETE. NO CONDUIT SHALL BE PL 17. LOCATION OF SLOTTED INSERTS, WELD PLATES AND ALL OTHER ITEMS TO BE EMBEDDED IN CONCRI 19. VERIFY DIMENSIONS AND LOCATIONS OF ALL OPENINGS, PIPE SLEEVE CURBS, ETC., AS REQUIRED B 20. AGGREGATE FOR CONCRETE SHALL NOT CONTAIN LIGNITE, STEEL, OR OTHER MATERIALS THAT MAY DETRIMENTAL TO THE CONCRETE. ALKALI-SILICA REACTIVE (ASR) AGGREGATES ARE NOT ALLOWED 21. MAXIMUM TOLERANCE FOR SLAB EDGES IS 1/2" +/- EXCEPT WHERE TIGHTER TOLERANCE IS REQUIRI CONCRETE SHALL BE PLACED AND CURED IN ACCORDANCE WITH THE SPECIFICATIONS. WHEN THE TEMPERATURE IS OVER 85 DEGREES FOLLOW THE RECOMMENDATIONS OF ACI 305R. WHEN THE AIR THE METAL BUILDING SYSTEM MANUFACTURER SHALL BE IAS AC472 ACCREDITED AND A MEMBER OF a. DESIGN THE METAL BUILDING SYSTEM FOR THE LOADS AND DESIGN CRITERIA SHOWN ON THE F DESIGN THE BUILDING FOR A MAXIMUM DRIFT OF H/200 UNDER THE NOMINAL WIND SPEED INDIC THE STRUCTURAL DESIGN CRITERIA. SEISMIC DRIFT SHALL BE LIMITED BASED ON ASCE 7 ASSU ACCOMMODATIONS FOR STORY DRIFTS HAVE NOT BEEN INCORPORATED INTO THE DESIGN. CO c. CHECK THE FOUNDATION DESIGN LOADS SHOWN ON THE DRAWINGS AND NOTIFY THE ARCHITE ANY OF THE LOADS FROM THE BUILDING WILL EXCEED THE LOADS SHOWN ON THE DRAWINGS. DO NOT CONSTRUCT FOUNDATIONS UNTIL THE ARCHITECT/ENGINEER HAS APPROVED THE METAL BL SYSTEM SUBMITTAL AND MADE ANY NECESSARY CHANGES TO THE FOUNDATION DRAWINGS. PLACE AND SECURE ANCHOR RODS IN FOOTING EXCAVATION PRIOR TO POURING CONCRETE FOR F 5. ALL WELDING SHALL BE PERFORMED BY WELDERS CERTIFIED BY AWS TO PERFORM THE WELDING I FINAL BOLTING OR WELDING SHALL NOT BE PERFORMED UNTIL THE STRUCTURE HAS BEEN PROPER POST-INSTALLED ANCHORS (MECHANICAL OR ADHESIVE) SHALL ONLY BE USED WHERE SPECIFIED C CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER-(PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PL/ OR DOWELS. POST-INSTALLED ANCHORS SHALL BE BUILDING CODE COMPLIANT, INSTALLED IN ACCO THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND INSPECTED PER THE APPLICABLE ICC-ES OR IA EVALUATION REPORT. SEE SPECIFICATIONS SECTION(S) 033000 FOR ADDITIONAL INFORMATION.





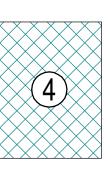
| <u>NOTES</u> | : | |
|--------------|---|--|
| | | |

- BASIC DESIGN WIND SPEED:
- NOMINAL WIND SPEED: 2.
- 4.
- 5.

| | GROSS WIND UPLIFT | | | | |
|--|--------------------------|-------------|-------------|-------------|--|
| | (STRENGTH DESIGN) | | | | |
| | TRIBUTARY AREA (SQ. FT.) | | | | |
| | ZONE | 10 | 50 | 100 | |
| 1 & 2e -44/+16 PSF -27/+1 | | | | -17/+16 PSF | |
| | 2n, 2r & 3e | -64/+16 PSF | -44/+16 PSF | -35/+16 PSF | |
| 3r | | -76/+16 PSF | -51/+16 PSF | -40/+16 PSF | |
| 4 -64/+16 PSF -47/+16 PSF -39/+16 PSI | | | | -39/+16 PSF | |

| | TRIBUT | ARY AREA (SQ | . FT.) |
|------|-------------|--------------|-------------|
| ZONE | 10 | 50 | 100 |
| 4 | -24/+22 PSF | -22/+20 PSF | -21/+19 PSF |
| 5 | -29/+22 PSF | -25/+20 PSF | -23/+19 PSF |

COMPONENTS AND CLADDING WALL WIND PRESSURES





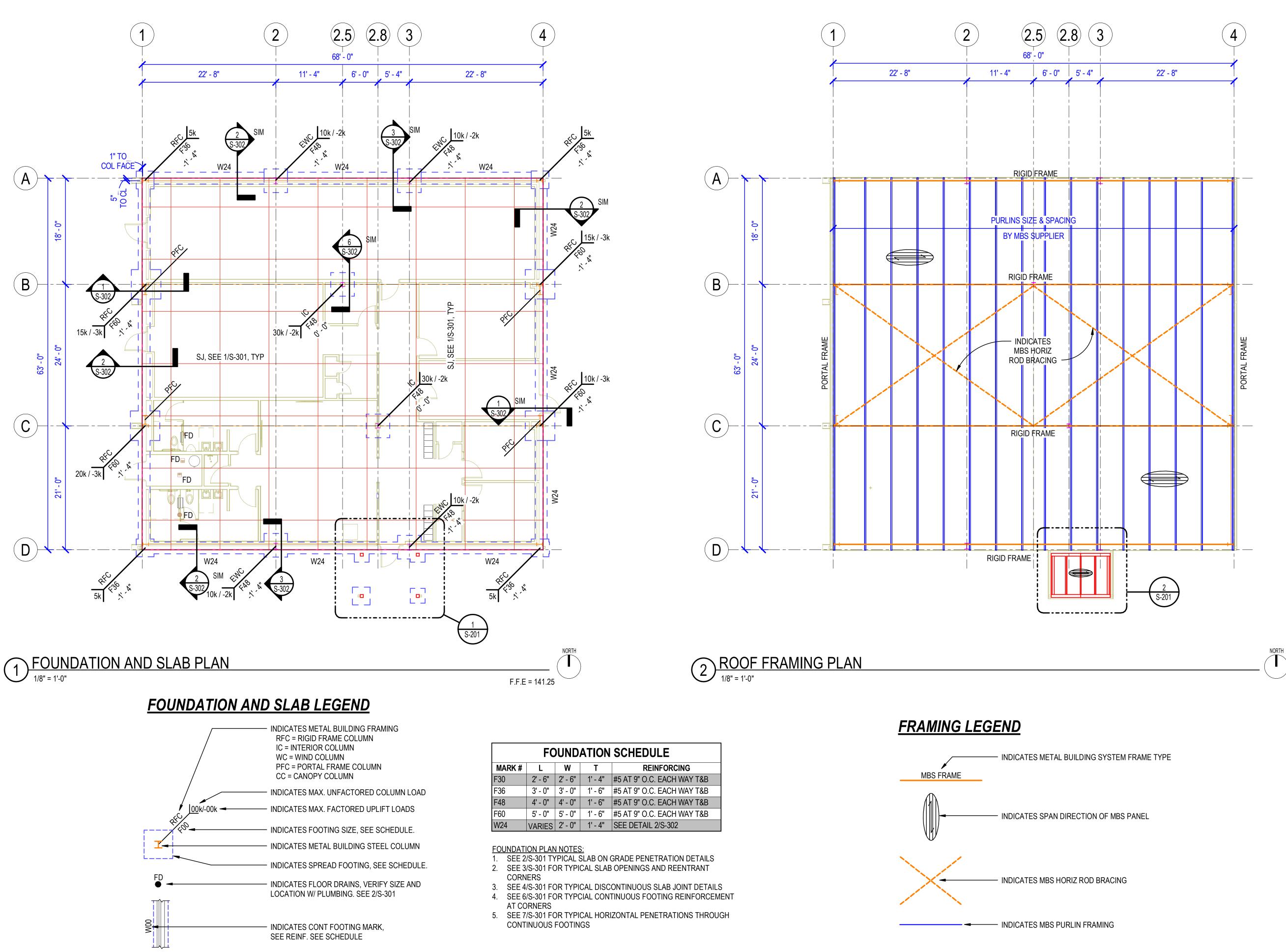
Project

BUILDING ROCKETDYNE ROL **ADEN** \sim ┣----EROJET 17 CON AST CAN 5 ARK КШ \triangleleft Design Phase CONSTRUCTION DOCUMENTS Revisions Date Description No. Stamp · CROMWELL ARCHITECTS/ ENGINEERS #5 ARKANGAS PROPESSIONA ENGINEER * * * No. 23092 BRAN 02-20-2025 Notes 1. CROMWELL ARCHITECTS ENGINEERS, INC. ALL RIGHTS RESERVED 2. THIS SHEET DESIGNED FOR COLOR PRINTING. CRITICAL INFORMATION MAY BE LOST WITH BLACK AND WHITE PRINTING. Project Number 2024-210 Issue Date 02-20-2025 Sheet Title COMPONENTS AND CLADDING WIND PRESSURES Sheet Number

S-002

104 MPH 81 MPH WIND PRESSURES ARE BASED ON ASCE 7-16 STRENGTH DESIGN (ULTIMATE). POSITIVE / NEGATIVE VALUES INDICATE FORCES ARE ACTING TOWARDS / AWAY FROM ELEMENT, RESPECTIVELY. SERVICE LEVEL LOADS MAY BE CALCULATED BY MULTIPLYING THE NUMBERS ABOVE BY 0.6.

COMPONENTS AND CLADDING ROOF WIND PRESSURES

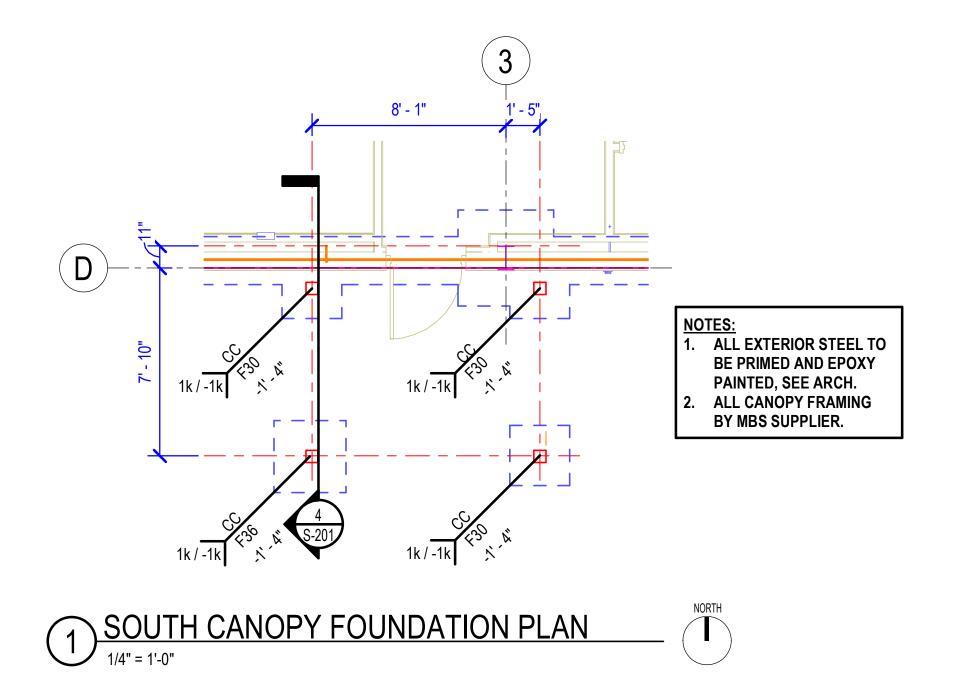


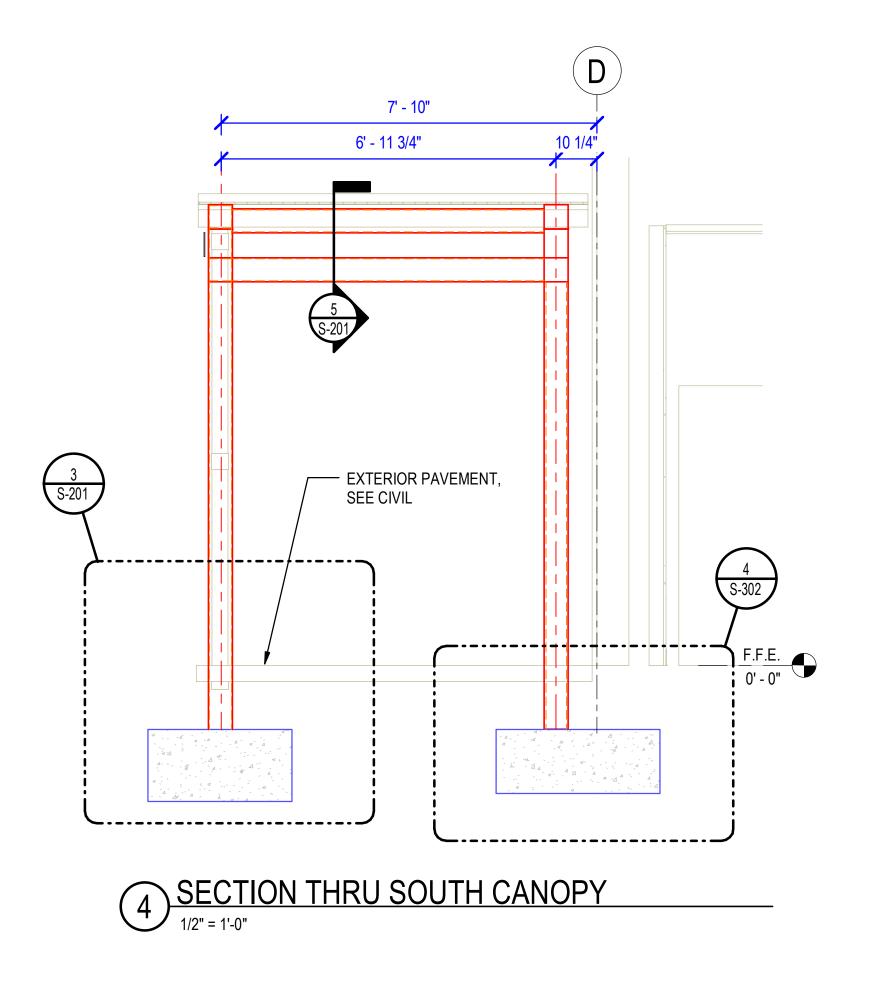
| FC | DUND | ATION | SCHEDULE |
|---------|--------------|------------------------|----------------------------|
| L | W | Т | REINFORCING |
| 2' - 6" | 2' - 6" | 1' - 4" | #5 AT 9" O.C. EACH WAY T&E |
| 3' - 0" | 3' - 0" | 1' - 6" | #5 AT 9" O.C. EACH WAY T&E |
| | L 2' - 6" | L W 2' - 6" 2' - 6" | 2' - 6" 2' - 6" 1' - 4" |

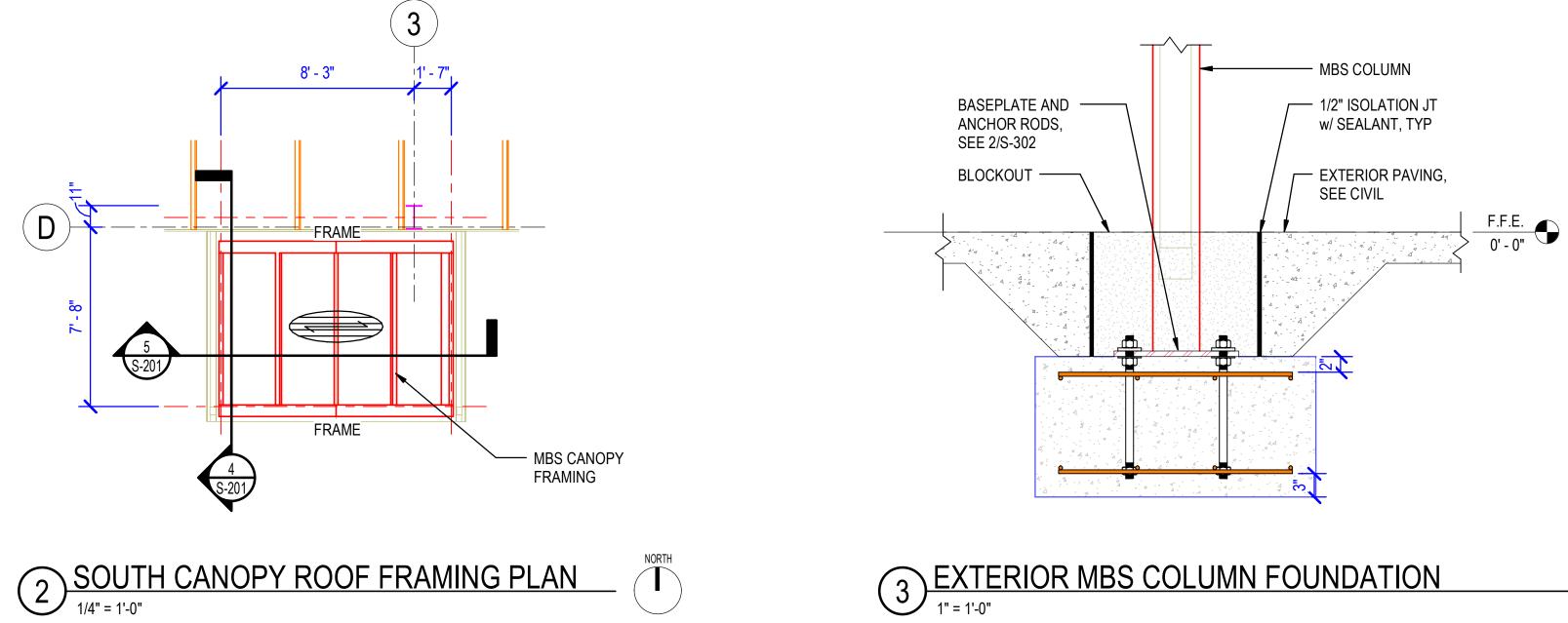
| 2' - 6" | 2' - 6" | 1' - 4" | #5 AT 9" O.C. EACH WAY T&B |
|---------|---------|---------|----------------------------|
| 3' - 0" | 3' - 0" | 1' - 6" | #5 AT 9" O.C. EACH WAY T&B |
| 4' - 0" | 4' - 0" | 1' - 6" | #5 AT 9" O.C. EACH WAY T&B |
| 5' - 0" | 5' - 0" | 1' - 6" | #5 AT 9" O.C. EACH WAY T&B |
| VARIES | 2' - 0" | 1' - 4" | SEE DETAIL 2/S-302 |
| | | | |

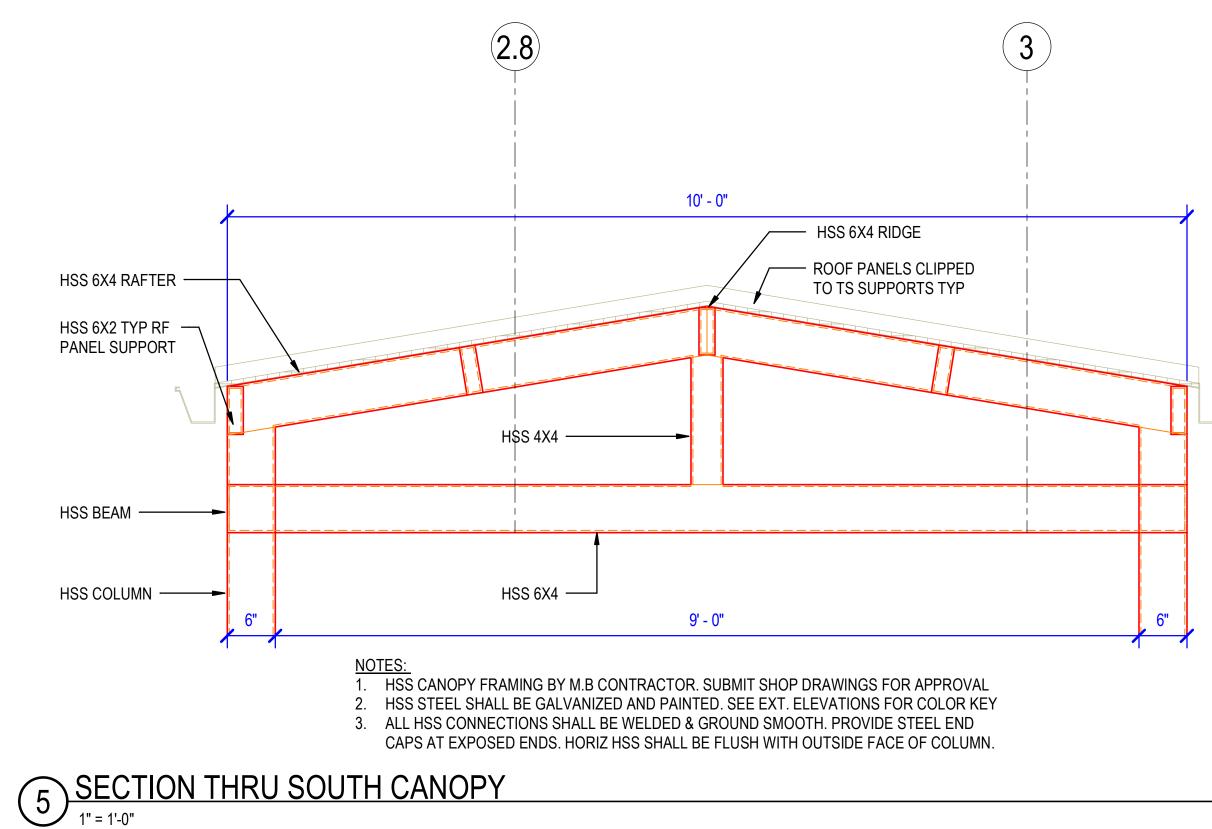


| AEROJET ROCKETDYNE A17 CONTROL BUILDING A17 CONTROL BUILDING ARKANSAS CONSTRUCTION Posidi Phase CONSTRUCTION DOCUMENTS |
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| Revisions |
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| Stamp |
| Notes |
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| Sheet Title |
| S-101 |





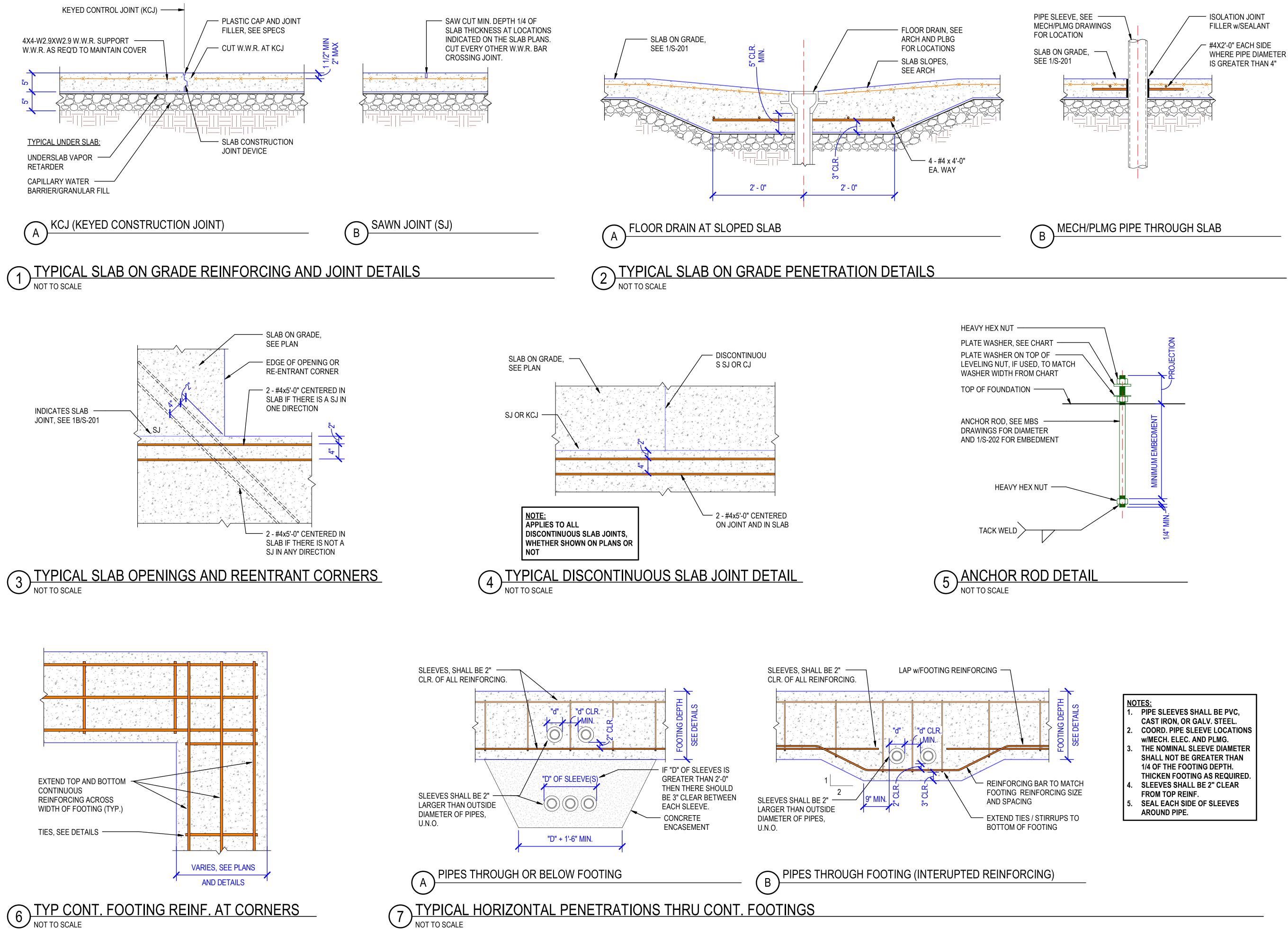




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|---|-----------------------------|---------------------------------|------------------------------|
| Project ALCKETDYNE Design Phase CON | | EAST CAMDEN, | |
| Revisions | | ription | |
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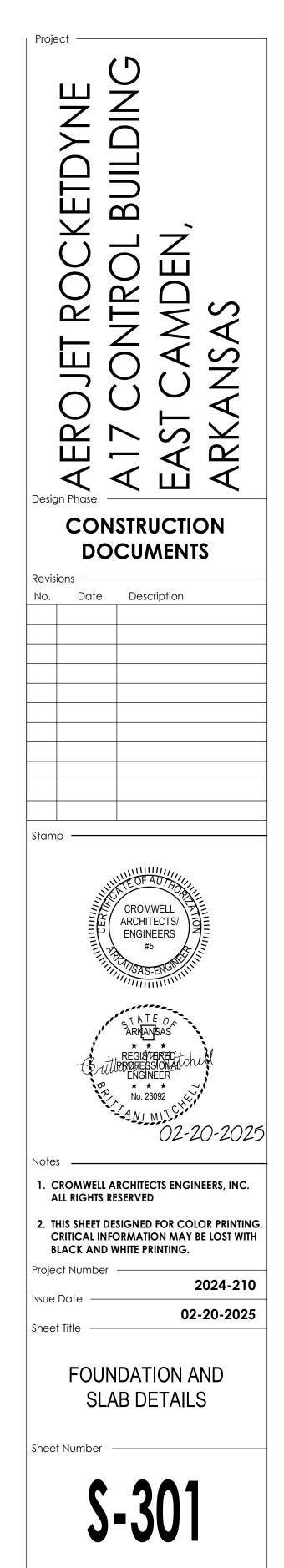
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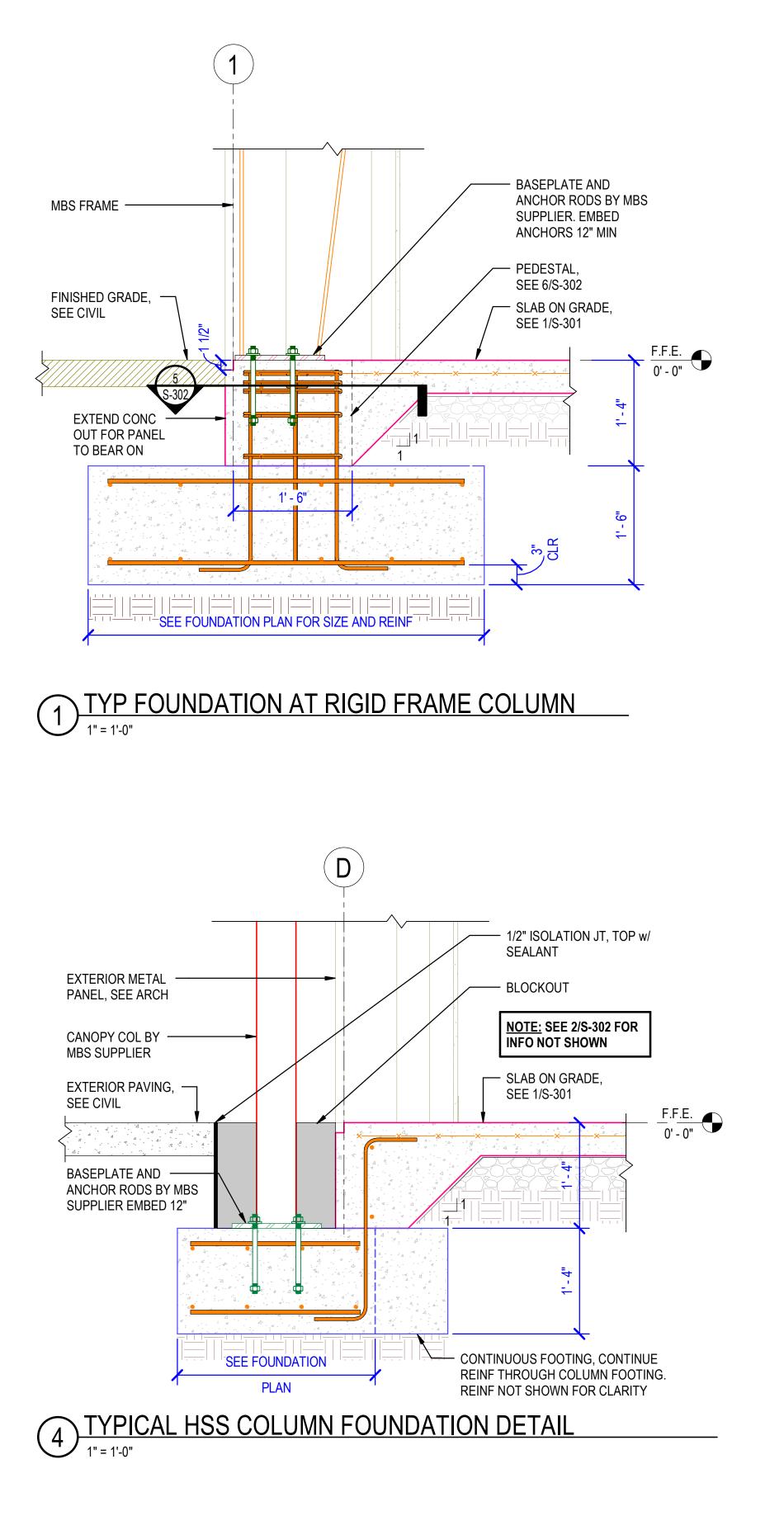




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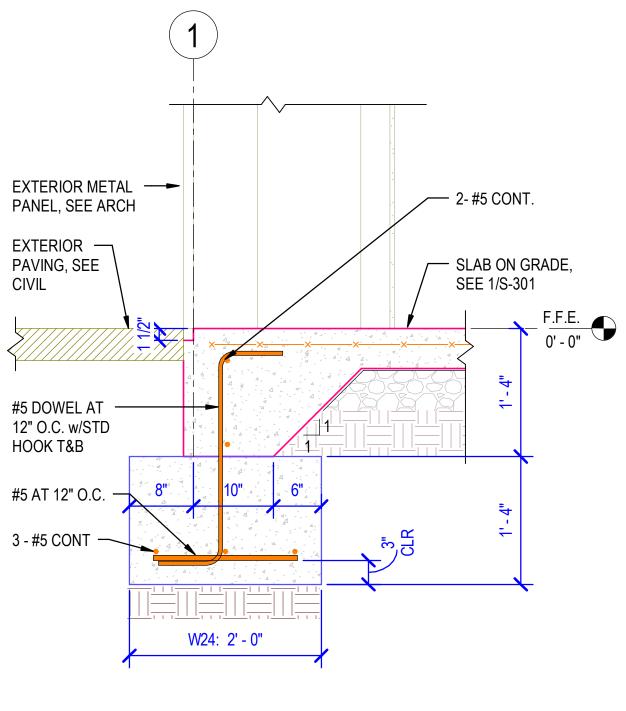
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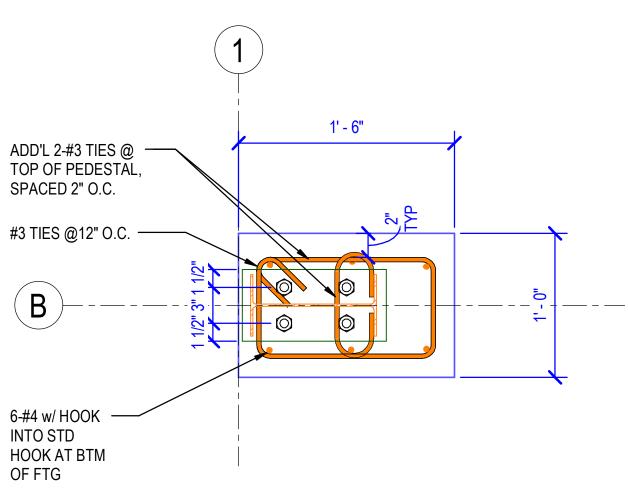


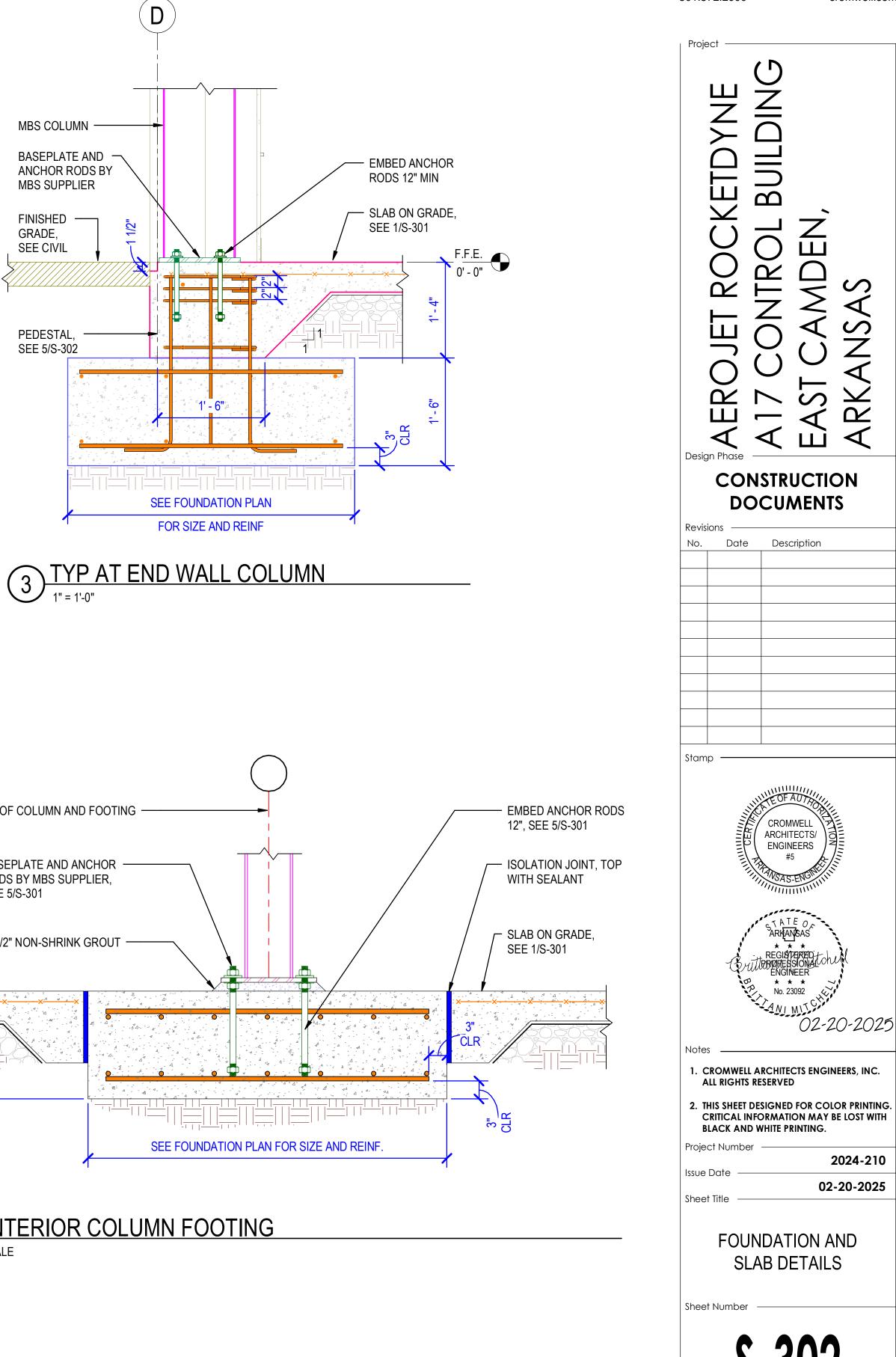
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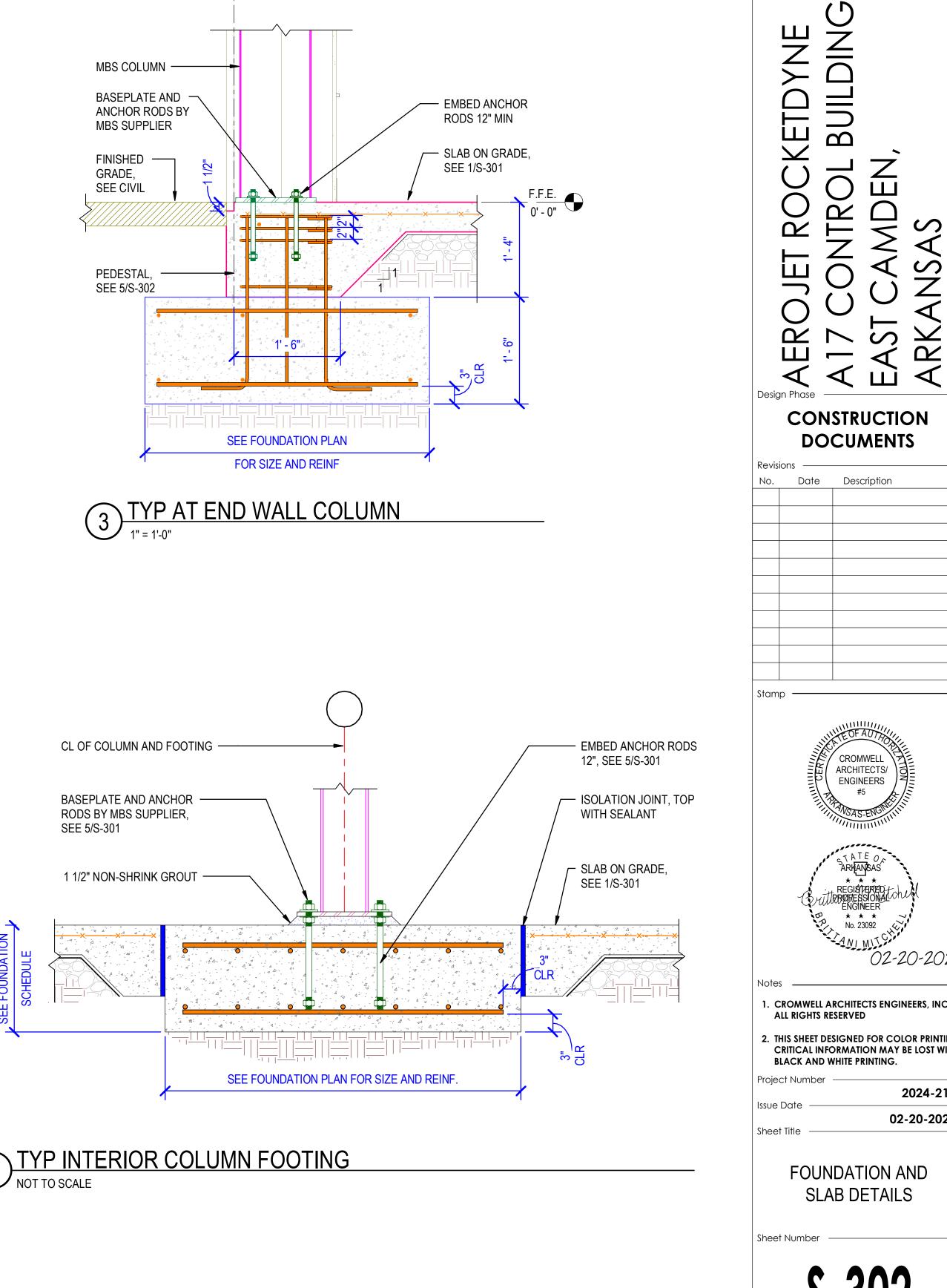
5 MBS COLUMN PEDESTAL DETAIL

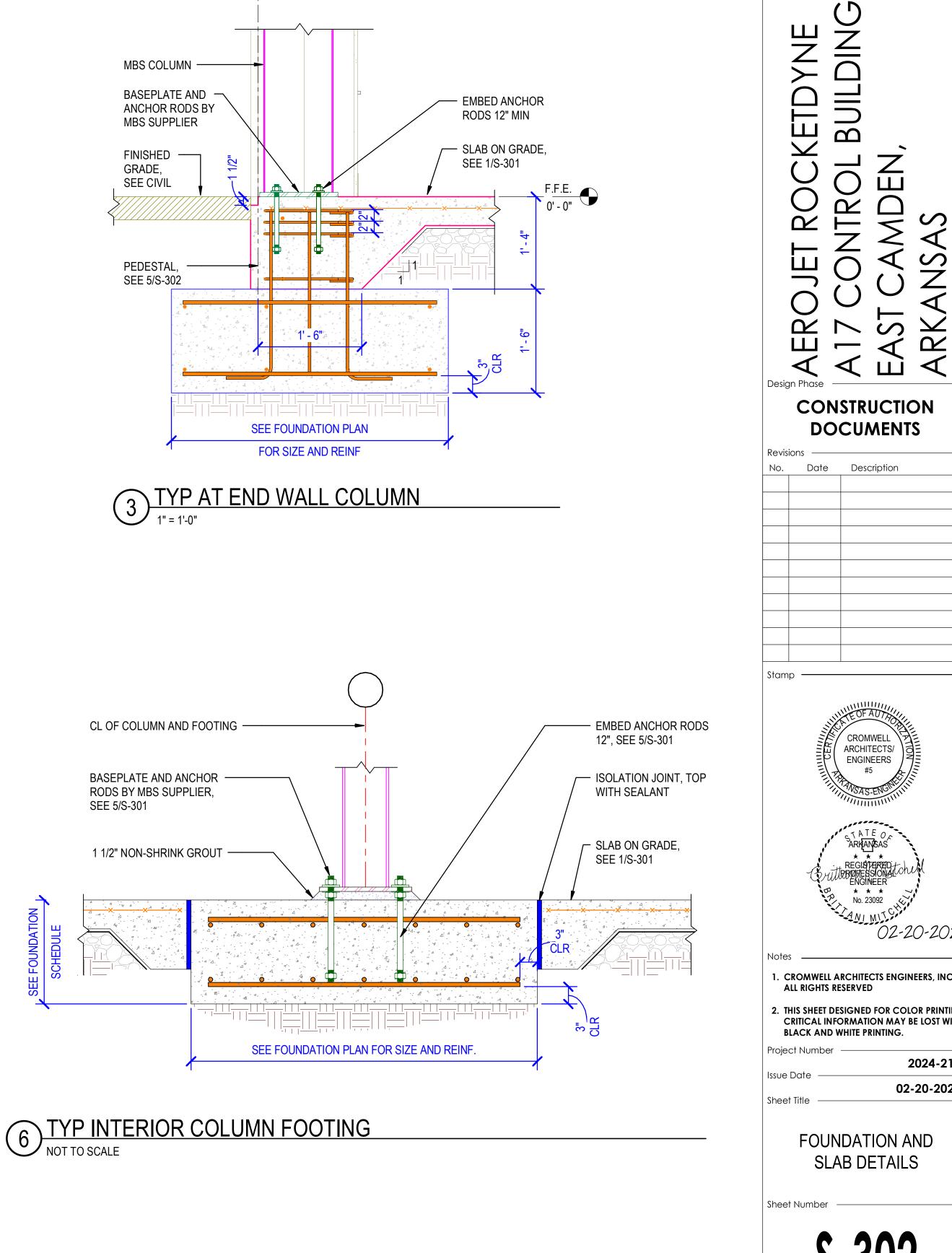




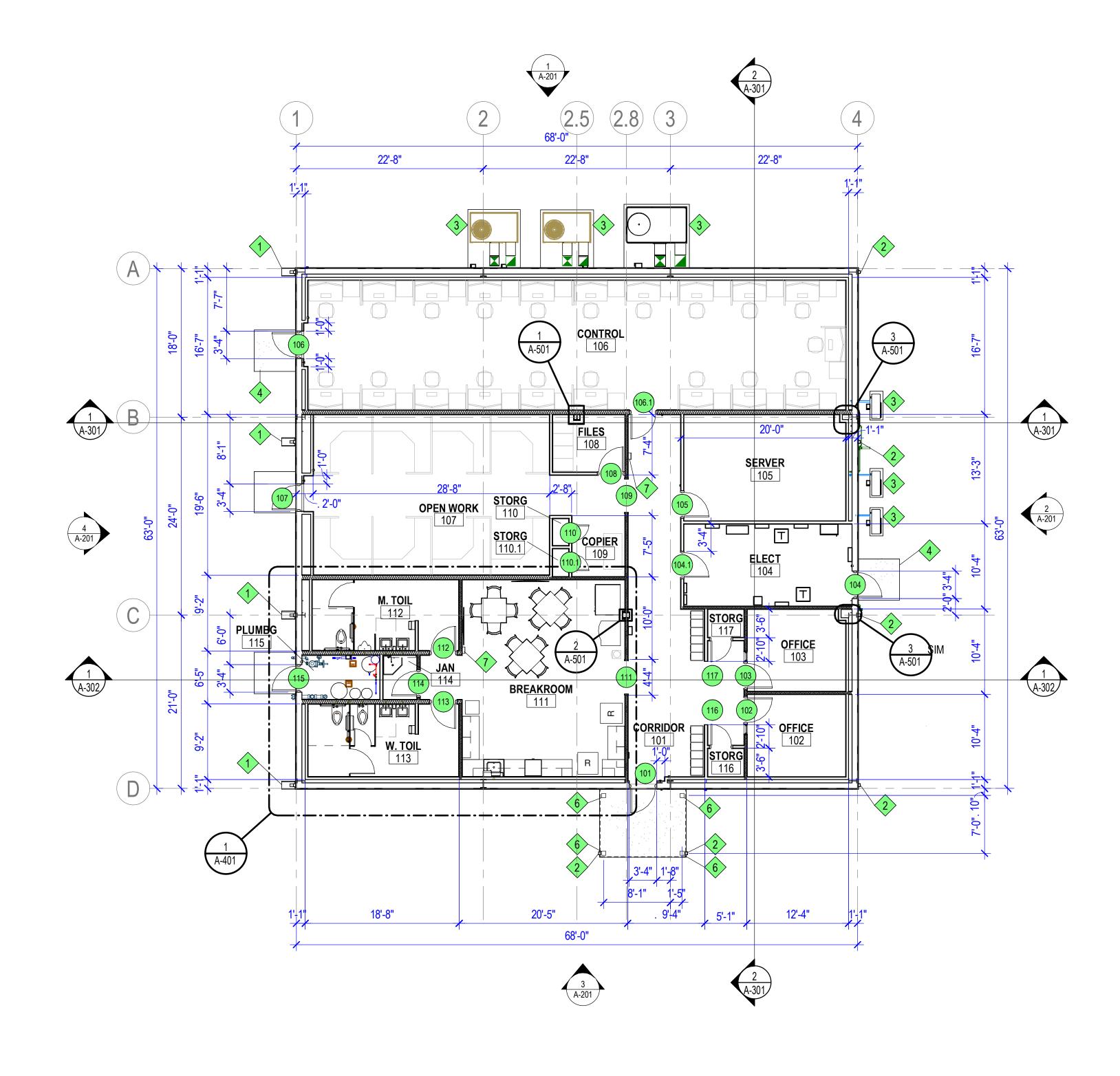






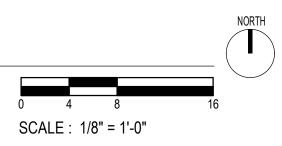


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- DRAIN.



FLOOR PLAN GENERAL NOTES:

1. INTERIOR DIMENSIONS ARE TO FACE OF STUDS UNLESS NOTED OTHERWISE.

2. REFER TO A-101R FOR PARTITION TYPE KEYS.

3. OPEN WORK CUBICLES ARE OFOI. (NO BACK PANEL) SEE DRAWING A-601 FOR ADDITIONAL INFORMATION. COORDINATE WITH ELECTRICAL DRAWINGS.

4. BREAKROOM TABLES, COPIER, FILE CABINETS AND VENDING MACHINES SHOWN ARE OFOI.

5. BREAKROOM APPLIANCES & LOCKERS ARE CFCI. SEE A-601 NOTES FOR ADDITIONAL INFORMATION.

6. CONTROL ROOM DESKS, MONITORS & CABS ARE OFOI. COORDINATE WITH ELECTRICAL DRAWINGS.

FLOOR PLAN KEYED NOTES:

1. DOWNSPOUT W/ PRE MANF CONCRETE SPLASH BLOCK.

2. DOWNSPOUT W/ PRE MANF PVC BOOT, TIE TO STORM

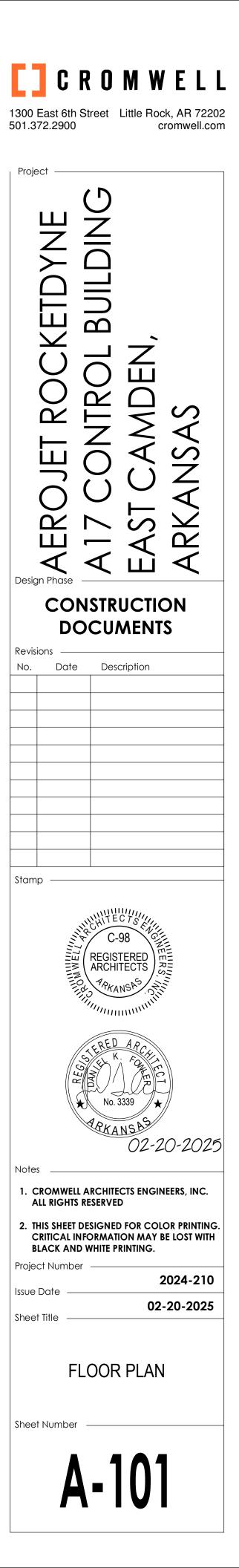
MECH OR ELECT EQUIP. PROVIDE CONCRETE HOUSEKEEPING PAD. SEE MECH & ELECT DRAWINGS FOR DETAILS.

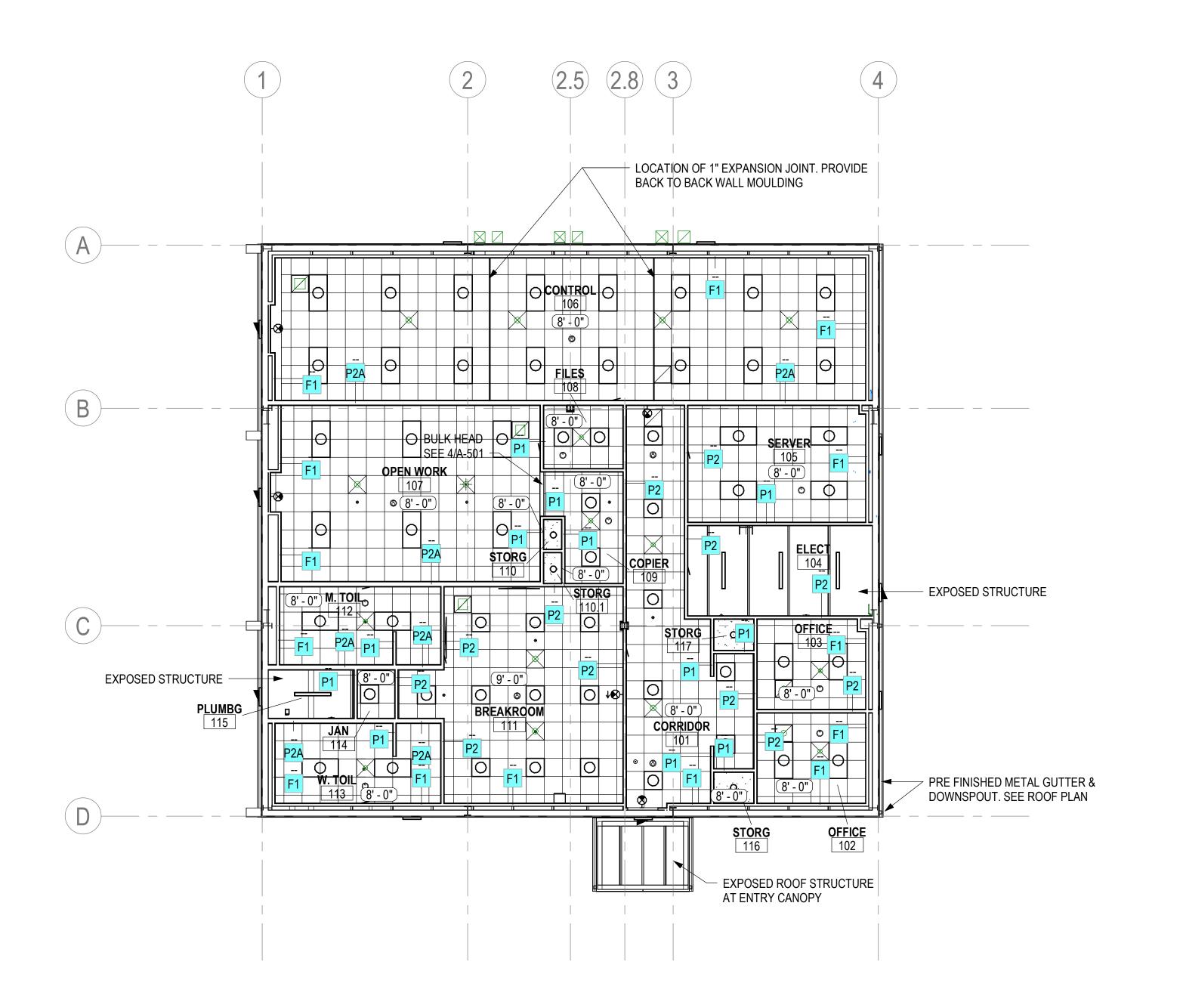
4. TYP. CONCRETE WALK OR STOOP. REFER TO CIVIL DWG FOR MAINTENANCE STRIP AND ADDITIONAL INFORMATION.

5. CONCRETE EQUIPMENT PAD.

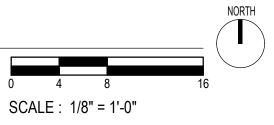
6. EXPOSED STEEL COLUMN, PAINT. SEE STRUCT DWG.

7. FIRE EXTINGUISHER CABINET (F.E.C.)

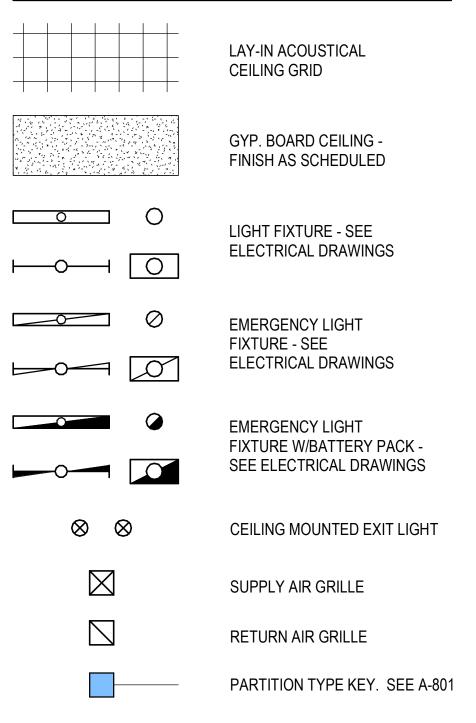




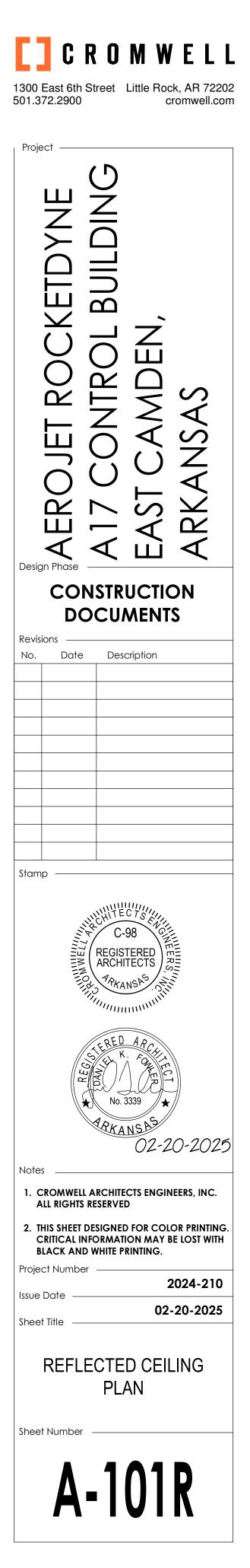


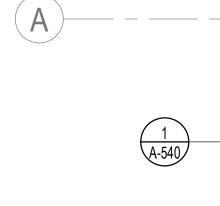


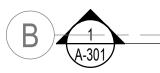
SYMBOLS LEGEND



REFER TO LIFE SAFETY, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION NOT SHOWN.







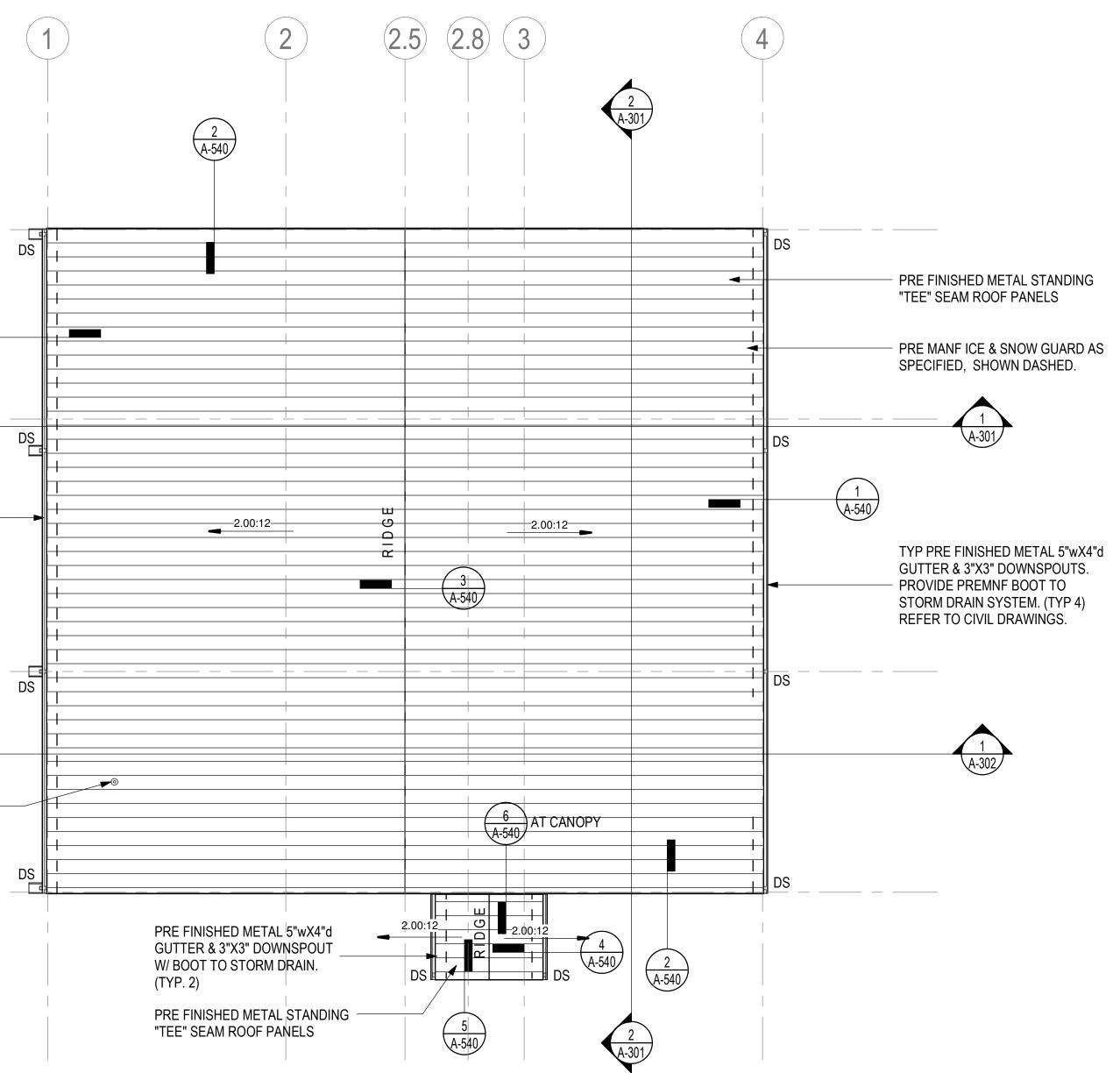
TYP PRE FINISHED METAL 5"wX4"d — GUTTER & 3"X3" DOWNSPOUTS. PROVIDE PREMNF CONC SPLASH BLOCK (TL OF 4 PLACES)

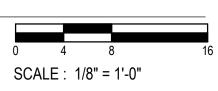
C 1 A-302

V.T.R. SEE DETAIL 7/A-540



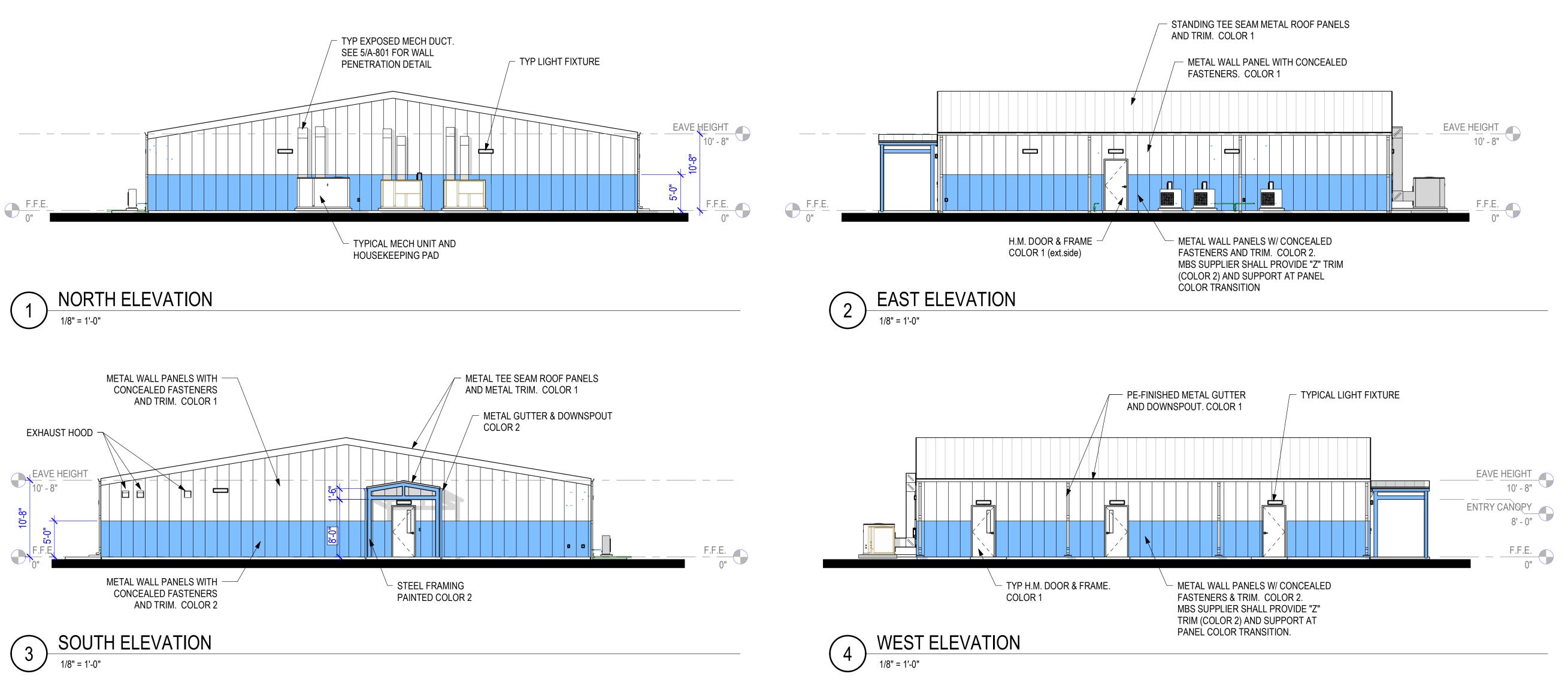








| Project Project Project Second Control Building Parkansas Construction Project Construction |
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| CONSTRUCTION DOCUMENTS |
| Revisions |
| No. Date Description |
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| REGISTERED ARCHITECTS VPKANSAS |
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| Sheet Title ROOF PLAN |
| Sheet Number |



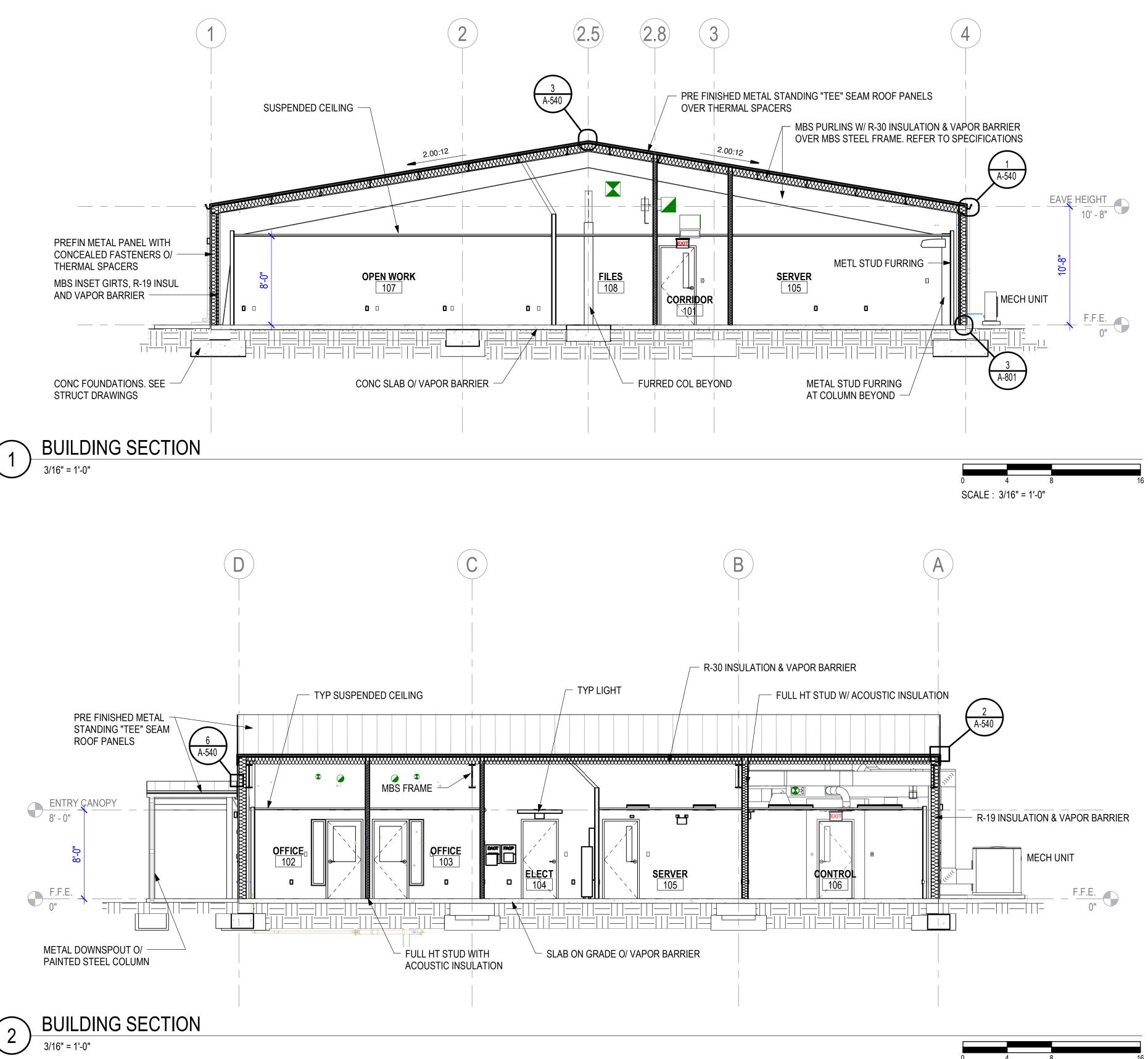
EXTERIOR COLOR LEGEND:

COLOR 1 = PANEL MANUFACTURERS STANDARD WHITE

COLOR 2 = BLUE EQUAL TO "HAWAIIAN BLUE"

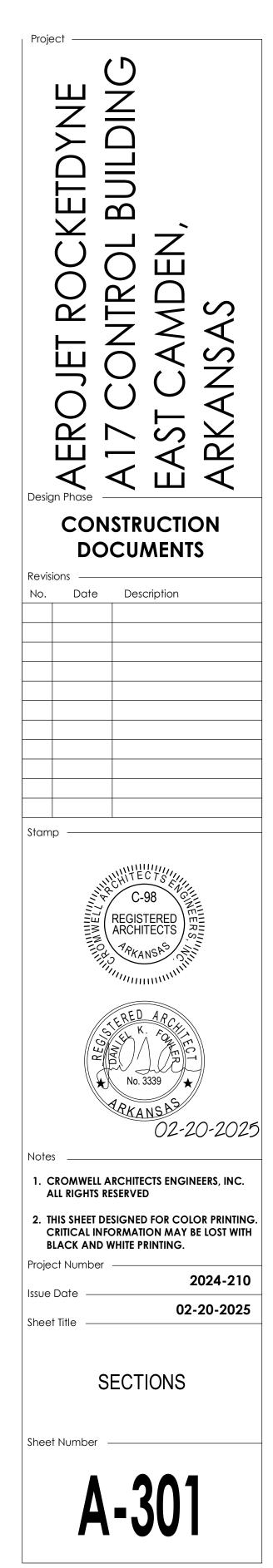
NOTE: CONTRACTOR SHALL SUBMIT METAL PANEL COLOR SAMPLES TO ARCHITECT WITH A KEY PLAN FOR REVIEW & APPROVAL.

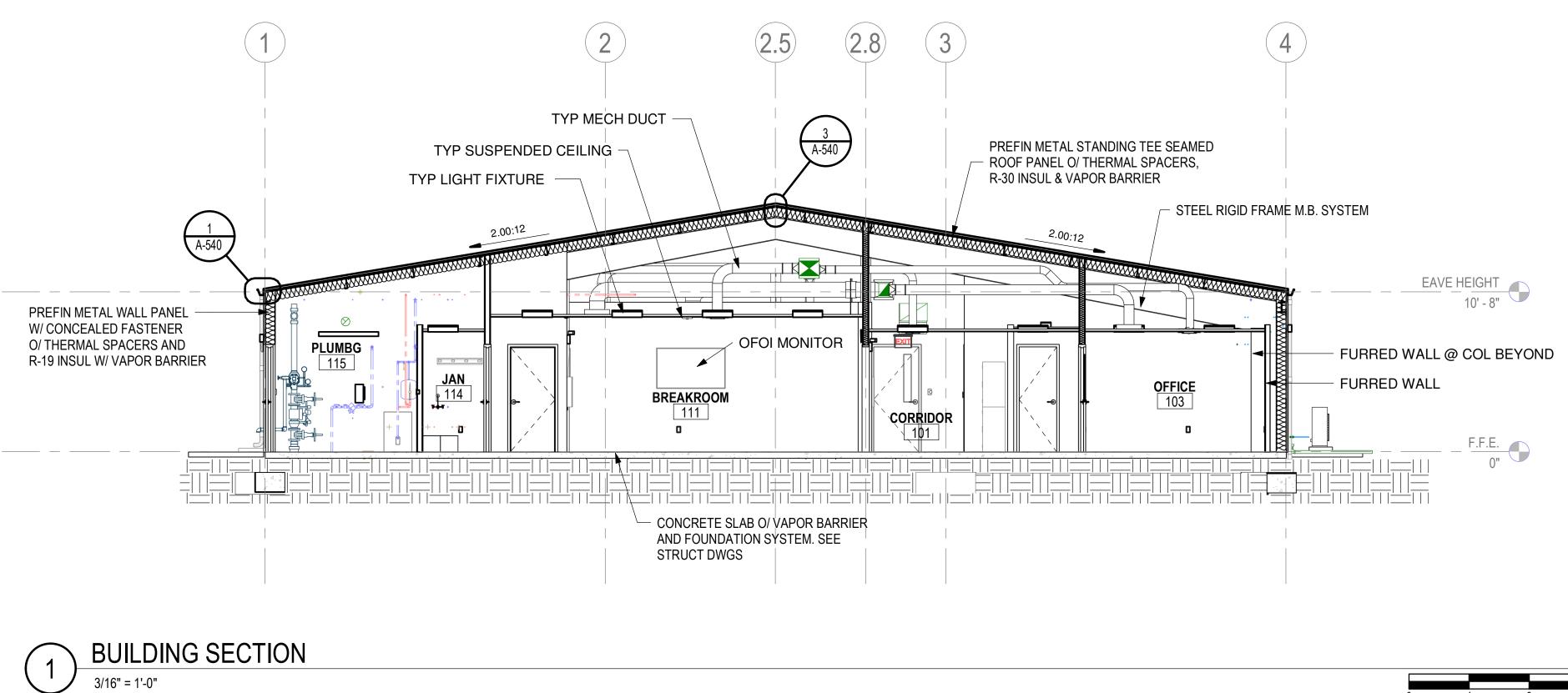
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| | * REGIO | C-98 REGISTERED ARCHITECTS PARANSAS No. 3339 ARKANSAS 02-20-2025 |
| Note | s | 02-20-2025 |
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| C Proje Issue | Date t Title | 02-20-2025 |



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



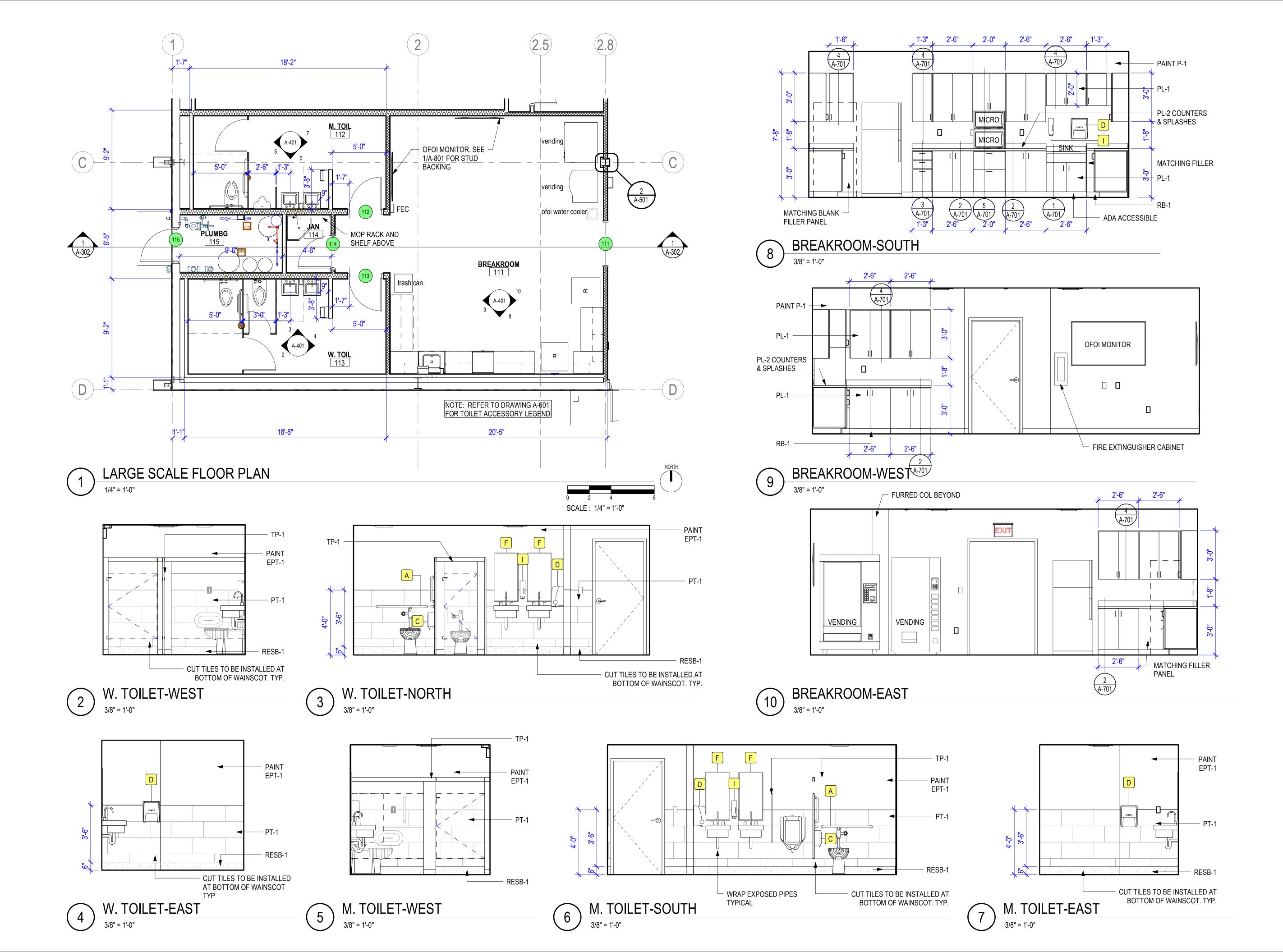




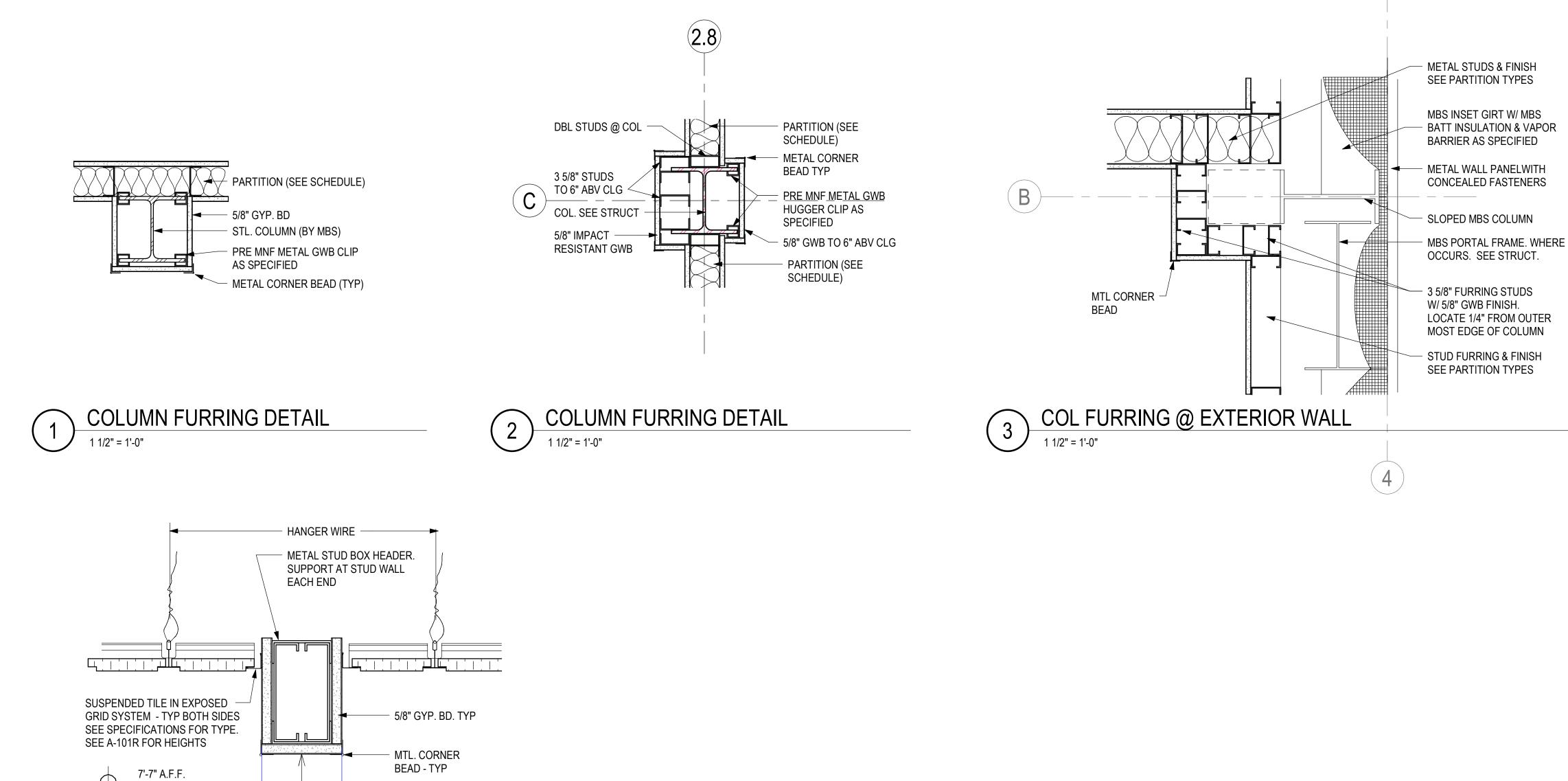
0 4 8 SCALE : 3/16" = 1'-0"



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| Project |
| AEROJET ROCKETDYNE A17 CONTROL BUILDING EAST CAMDEN, ARKANSAS ARKANSAS |
| CONSTRUCTION DOCUMENTS |
| Revisions No. Date Description |
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| Project Number 2024-210 Issue Date |
| Operation Operation <t< td=""></t<> |
| LARGE SCALE PLANS & ELEVATIONS |
| Sheet Number |





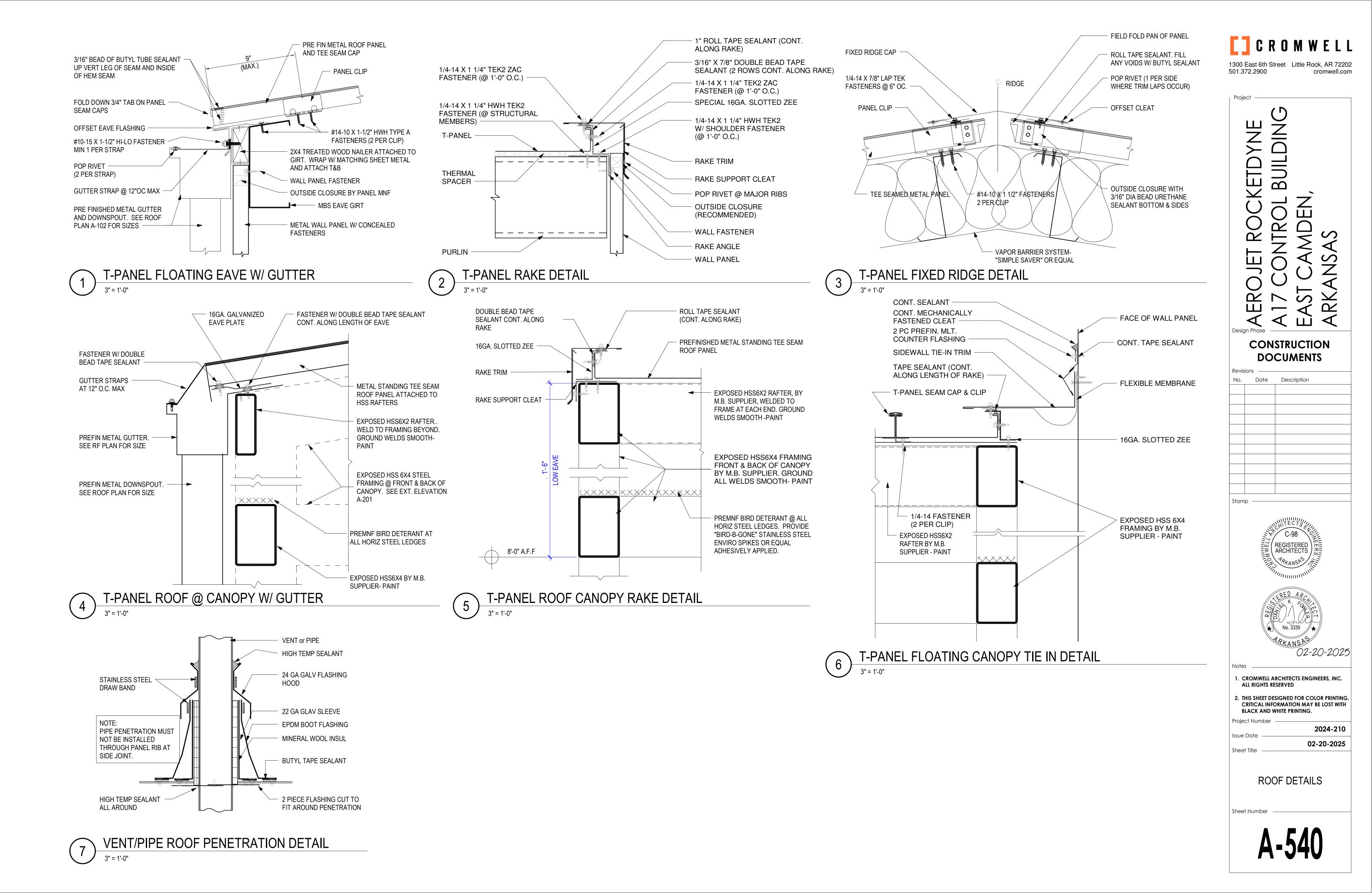
BULKHEAD DETAIL 3" = 1'-0"

4 7/8"

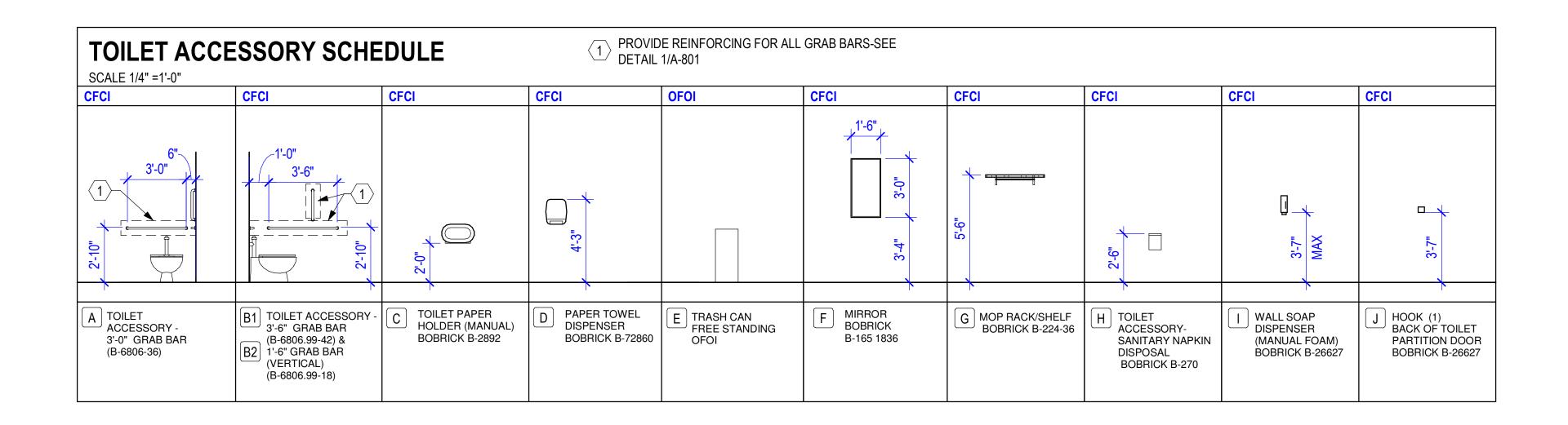
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| 02-20-2025 Sheet Title |
| DETAILS |
| Sheet Number |
| A-501 |



| | | | | | | | ROOM FIN | IISH SCHEI | DULE | | | | | | |
|--------|-----------|-------|--------|----------|-------------|----------|-----------------|------------|------------|----------|-------------|----------|-------|--------|----------------|
| | ROOM | | | NORTH | WALL | SOUTH | WALL | EAST W | /ALL | WEST | WALL | CEILIN | IG | ROOM | |
| NUMBER | NAME | FLOOR | BASE | MATERIAL | COLOR | MATERIAL | COLOR | MATERIAL | COLOR | MATERIAL | COLOR | MATERIAL | COLOR | NUMBER | REMARKS |
| 101 | CORRIDOR | CONC | RB-1 | GWB | P-1 | GWB | P-1 | GWB | P-1 | GWB | P-1 | ACT | ACT-1 | 101 | |
| 101 | OFFICE | CPT-1 | RB-1 | GWB | P-1 | GWB | P-1 | GWB | P-1 | GWB | P-1 | ACT | ACT-1 | 101 | |
| 102 | OFFICE | CPT-1 | RB-1 | GWB | P-1 | GWB | P-1 | GWB | P-1 | GWB | P-1 | ACT | ACT-1 | 102 | |
| 104 | ELECT | CONC | RB-1 | GWB | P-1 | GWB | P-1 | GWB | P-1 | GWB | P-1 | EXP | | 104 | |
| 105 | SERVER | CONC | RB-1 | GWB | P-1 | GWB | P-1 | GWB | P-1 | GWB | P-1 | ACT | ACT-1 | 105 | |
| 106 | CONTROL | RES-1 | RB-1 | GWB | P-1 | GWB | P-1 | GWB | P-1 | GWB | P-1 | ACT | ACT-1 | 106 | |
| 107 | OPEN WORK | CPT-1 | RB-1 | GWB | P-1 | GWB | P-1 | GWB | P-1 | GWB | P-1 | ACT | ACT-1 | 107 | |
| 108 | FILES | RES-1 | RB-1 | GWB | P-1 | GWB | P-1 | GWB | P-1 | GWB | P-1 | ACT | ACT-1 | 108 | |
| 109 | COPIER | RES-1 | RB-1 | | P-1 | GWB | P-1 | GWB | P-1 | GWB | P-1 | ACT | ACT-1 | 109 | |
| 110 | STORG | CONC | RB-1 | GWB | P-1 | GWB | P-1 | GWB | P-1 | GWB | P-1 | GWB | P-3 | 110 | |
| 110.1 | STORG | CONC | RB-1 | GWB | P-1 | GWB | P-1 | GWB | P-1 | GWB | P-1 | GWB | P-3 | 110.1 | |
| 111 | BREAKROOM | RES-1 | RB-1 | GWB | | GWB | P-1 | GWB | | GWB | P-1 | ACT | ACT-1 | 111 | |
| 112 | M. TOIL | RES-1 | RESB-1 | GWB/TBB | EPT-1/PT-1 | GWB/TBB | EPT-1/PT-1 | GWB/TBB | EPT-1/PT-1 | GWB/TBB | EPT-1/PT-1 | ACT | ACT-1 | 112 | GENERAL NOTE 3 |
| 113 | W. TOIL | RES-1 | RESB-1 | GWB/TBB | EPT-1/PT-1 | GWB/TBB | EPT-1/PT-1 | GWB/TBB | EPT-1/PT-1 | GWB/TBB | EPT-1/PT-1 | ACT | ACT-1 | 113 | GENERAL NOTE 3 |
| 114 | JAN | RES-1 | RB-1 | GWB | EPT-1/FRP-1 | GWB | EPT-1 | GWB | EPT-1 | GWB | EPT-1/FRP-1 | ACT | ACT-1 | 114 | |
| 115 | PLUMBG | CONC | RB-1 | GWB | P-1 | GWB | P-1 | GWB | P-1 | GWB | P-1 | EXP | | 115 | |
| 116 | STORG | RES-1 | RB-1 | GWB | P-1 | GWB | P-1 | GWB | P-1 | GWB | P-1 | EXP | | 116 | |
| 117 | STORG | RES-1 | RB-1 | GWB | P-1 | GWB | P-1 | GWB | P-1 | GWB | P-1 | EXP | | 117 | |



GENERAL NOTES:

- 1. SUBMIT ALL SAMPLES TO OWNER FOR FINAL APPROVAL PRIOR TO ORDERING INTERIOR FINISH MATERIALS.
- 2. RESOURCE FOR RB-1: SUPERIOR FLOORS AND DESIGN CENTER, CAMDEN, AR (870)231-6901, ATTN: LACEY & TODD SCHROEDER
- 3. WALL TILE WAINSCOT TO BE 4'-0" AFF. TILE PATTERN TO BE HORIZONTAL 1/3 OFFSET. TOP OF WAINSCOT TO BE FINISHED WITH TRIM MASTER 3/8" ALUMINUM SQUARE TILE EDGING FROM HOME DEPOT. COLOR: BLACK. INSTALLATION OF TILE SHALL BE 3/8" THIN SET OVER 3/8" CEMENT BOARD. PROVIDE 5/8" GWB & FINISH AS SCHEDULED ABOVE TILE.
- 4. GROUT COLORS: WALL, FLOOR, AND BASE TILES TO RECEIVE HIGH PERFORMANCE GROUT. COLORS TO BE SELECTED FROM STANDARD OFFERING.
- 5. HOLLOW METAL DOORS AND FRAMES TO BE PAINTED P-2. WOOD DOORS TO BE FACTORY FINISHED WITH STAIN COLOR SELECTED FROM STANDARD OFFERING.
- 6. FLOORING TRANSITIONS TO BE
- A. RES TO CONC: ZINC STRIP PROVIDED BY RES INSTALLER.
- B. CPT TO CONC OR RES: JOHNSONITE SLIMLINE, COLOR: 40 BLACK
- 7. SEE ELEVATIONS ON SHEET A-401 FOR RESTROOM WALL TILE PLACEMENT.
- MICROWAVES SHALL BE CFCI. PROVIDE "PANASONIC NN-SU696S".
 REFRIGERATORS SHALL BE CFCI. PROVIDE "ELEMENT ENR-18TFG-CS".

MILLWORK NOTES:

1. MILLWORK TO RECEIVE PL-1 ON VERTICAL SURFACES WITH 3MM COORDINATING EDGEBANDING AND PL-2 ON COUNTER TOP SURFACES AND SPLASHES.

| MATERIAL LEGEN |
|----------------|
|----------------|

| | "NO" OR "NONE" |
|-------|-------------------------|
| ACT | ACOUSTICAL CEILING TILE |
| ALG | ALUMINUM/ GLASS |
| CMU | CONCRETE MASONRY UNIT |
| CONC | SEALED CONCRETE |
| CPT | CARPET |
| EPT | EPOXY PAINT |
| EXP | EXPOSED STRUCTURE |
| FRP | FIBERGLASS REINFORCED |
| GWB | GYPSUM WALL BOARD |
| MRGWB | MOISTURE RESISTANT GYP |
| Р | PAINT |
| PL | PLASTIC LAMINATE |
| PLWD | PLYWOOD |
| PT | PORCELAIN TILE |
| PTB | PORCELAIN TILE BASE |
| RB | RESILIENT BASE |
| RES | RESINOUS FLOORING |
| RESB | RESINOUS INTEGRAL COVE |
| TBB | TILE BACKER BOARD |
| TP | TOILET PARTITIONS |
| | |

FINISHES LEGEND

FLOORS

| RES-1 | DOUBLE BROADCAST: SHERWIN WILL APPLIED BROADCAST 1/8" FB616 COLO GROUT COAT:MPR-CLEAR (MAY REQU TOPCOAT: SATIN FINISH RESUTILE HT |
|--------|--|
| CPT-1 | MILLIKEN, MIDNIGHT SPARKLE P16440 COLLECTION ARCHIVED. |
| CONC | SEALED CONCRETE, OWNER TO APPF |
| BASE | |
| RB-1 | FLEXCO, 4"H COVE BASE, VCB-058, CC |
| RESB-1 | 6"H RESINOUS INTEGRAL COVE BASE |
| WALL | S |
| EPT-1 | SHERWIN WILLIAMS, COLOR: AEROJE |
| FRP-1 | CRANE COMPOSTIES, GLASBORD, EM WAINSCOT |
| P-1 | SHERWIN WILLIAMS, COLOR: AEROJE |
| P-2 | SHERWIN WILLIAMS, COLOR: AEROJE |
| PT-1 | MSI, CEMENTINO GRAY, 12" X 24" MAT |
| CEILIN | IGS |
| ACT-1 | ARMSTRONG, ULTIMA HIGH NRC, BEV GRID |
| EPT-1 | SHERWIN WILLIAMS, COLOR: AEROJE |
| P-3 | SHERWIN WILLIAMS, COLOR: AEROJET |
| MILLW | /ORK |
| PL-1 | WILSONART, PATTERN AND COLOR: T |
| PL-2 | WILSONART, PATTERN AND COLOR: T |
| MISCE | LLANEOUS |
| TP-1 | GLOBAL PARTITIONS, SOLID PLASTIC |

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| IAMS, RESUFLOR MPE PRIMER; RESUFLOR MPE-CLEAR |
|--|
| |
| OR WOMBAT, DECORATIVE VINYL FLAKE BLEND, 2 COATS |
| JIRE MULTIPLE COATS TO OBTAIN A SMOOTH FLOOR); |
| S 100 CLEAR SATIN URETHANE |
| |

40, SIZE 1M, BELLE ACRE COLOR 255 EBONY ACRES.

PROVE SEALER

COLOR: BLUE SHADOW, 120' ROLLS, PREFORMED CORNERS

, TO MATCH RES-1

IET GRAY, EG-SHEL FINISH, WATER-BASED EPOXY EMBOSSED FINISH, COLOR: WHITE, 4' X 8' USED AS 4'H

ET GRAY, EG-SHEL FINISH, LATEX

ET GRAY, SEMI-GLOSS FINISH, (H.M. FRAMES/DOORS)

VELED TEGULAR #1941, 24" X 24" X 7/8", 15/16" PRELUDE XL

ET GRAY, EG-SHEL FINISH, LATEX OR EPOXY AS SCHEDULED ET GRAY, LATEX, FLAT FINISH OR DRY FALL PAINT, FLAT FINISH

TBD - TO BE SELECTED BY OWNER (VERTICAL SURFACES)

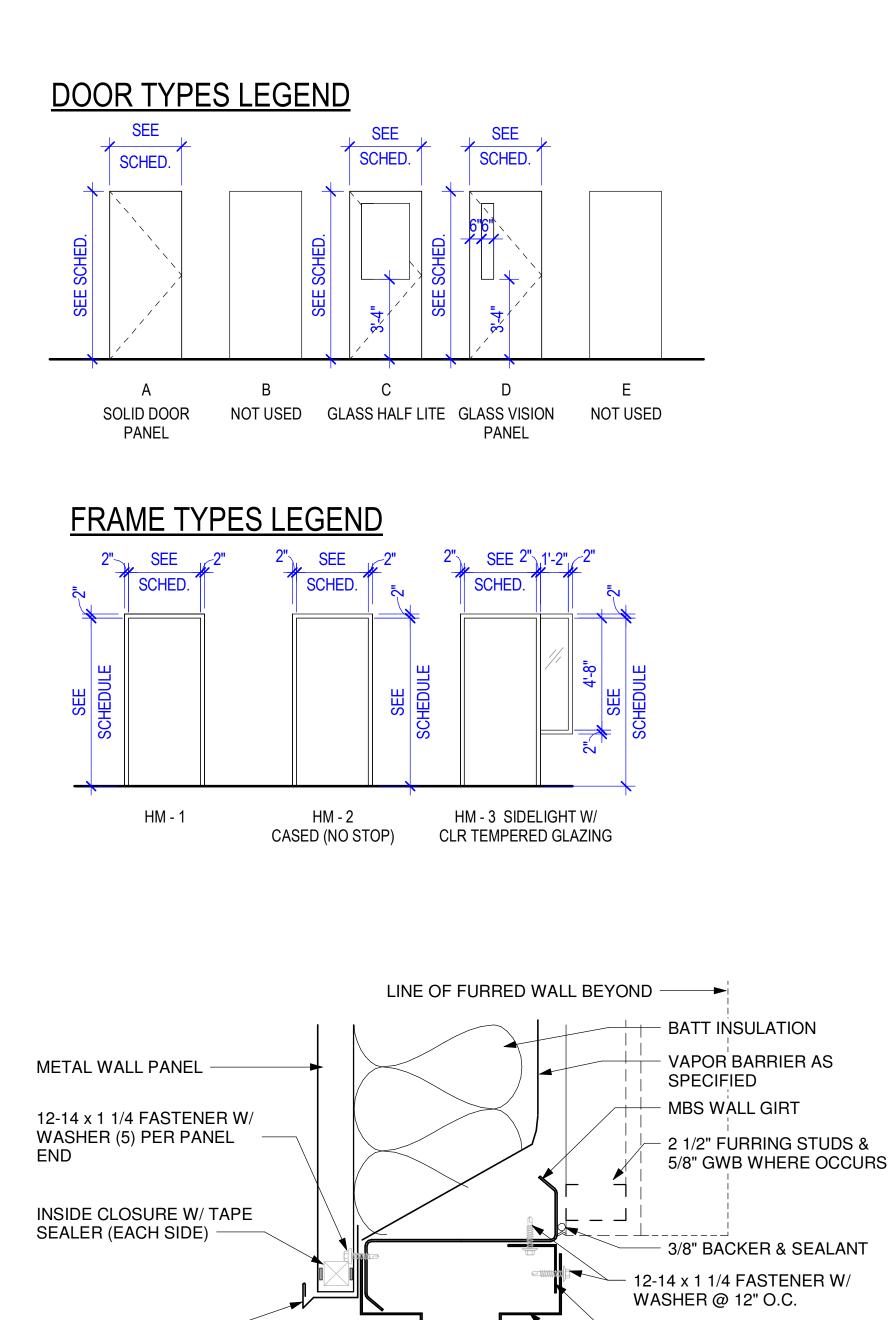
TBD - TO BE SELECTED BY OWNER (COUNTER TOPS)

GLOBAL PARTITIONS, SOLID PLASTIC POLYMER, COLOR TO BE SELECTED BY OWNER, TO BE FLOOR MOUNTED AND OVERHEAD BRACED



| Project Second Control Building A17 CONTROL BUILDING Pasion Phase CONSTRUCTION DOCUMENTS |
|--|
| Revisions |
| No. Date Description |
| |
| |
| |
| |
| |
| Stamp |
| C-98 REGISTERED ARCHITECTS VAANSAS VAANSAS VAANSAS No. 3339 ARKANSAS OZ-20-2025 |
| Notes |
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| Project Number 2024-210 |
| Issue Date 02-20-2025 Sheet Title |
| ROOM FINISH SCHEDULE |
| Sheet Number |
| A-601 |

| MATERIA | LS |
|---------|-----------------------------------|
| AL | ALUMINUM |
| СТ | CLEAR TEMPERED GLASS |
| GHM | GALVANIZED HOLLOW METAL |
| НМ | HOLLOW METAL |
| IHM | INSULATED HOLLOW METAL |
| IGHM | INSULATED GALVANIZED HOLLOW METAL |
| SCW | SOLID CORE WOOD |
| ST | STEEL |
| SCWD | SOLID CORE WOOD |
| MATERIA | LS |
| S | STAIN |
| Р | PAINT |
| CA | CLEAR ANODIZED |



STD. M.B.HEAD TRIM

5

DOOR HEADER ANGLE

HM DOOR FRAME

| | | | | | | | | DO | OR SC | HEDUL | E | | |
|----------|------|---------|---------|----------|-------|----------|---------|---------|----------|-------------|----------|----------|-----------------|
| | | [| DOOR | | | | FRAME | | | | | | |
| | | S | ZE | | FRAME | FRAME | | DETAIL | S | FIRE RATING | HARDWARE | | |
| DOOR NO. | TYPE | W | HT | MATERIAL | TYPE | MATERIAL | HEAD | JAMB | THRSHLD. | IN MINUTES | SET NO. | DOOR NO. | COMMENTS |
| | - | | | | - | | | | | 1 | | | 1 |
| 101 | D | 3' - 0" | 7' - 0" | IGHM | HM 1 | GHM | 4/A-620 | 5/A-620 | 3/A-620 | | C715 | 101 | OFOI CARD SWIPE |
| 102 | С | 3' - 0" | 7' - 0" | SCWD | HM 3 | HM | 2/A-620 | 1/A-620 | | | 103 | 102 | |
| 103 | С | 3' - 0" | 7' - 0" | SCWD | HM 3 | HM | 2/A-620 | 1/A-620 | | | 103 | 103 | |
| 104 | A | 3' - 0" | 7' - 0" | IGHM | HM 1 | GHM | 4/A-620 | 5/A-620 | 3/A-620 | | 785 | 104 | |
| 104.1 | A | 3' - 0" | 7' - 0" | SCWD | HM 1 | HM | 2/A-620 | 1/A-620 | | | 201 | 104.1 | |
| 105 | D | 3' - 0" | 7' - 0" | SCWD | HM 1 | HM | 2/A-620 | 1/A-620 | | | C201 | 105 | OFOI CARD SWIPE |
| 106 | D | 3' - 0" | 7' - 0" | IGHM | HM 1 | GHM | 4/A-620 | 5/A-620 | 3/A-620 | | C715 | 106 | OFOI CARD SWIPE |
| 106.1 | D | 3' - 0" | 7' - 0" | SCWD | HM 1 | HM | 2/A-620 | 1/A-620 | | | C701 | 106.1 | OFOI CARD SWIPE |
| 107 | D | 3' - 0" | 7' - 0" | IGHM | HM 1 | GHM | 4/A-620 | 5/A-620 | 3/A-620 | | C715 | 107 | OFOI CARD SWIPE |
| 108 | A | 3' - 0" | 7' - 0" | SCWD | HM 1 | HM | 2/A-620 | 1/A-620 | | | 503 | 108 | |
| 109 | | 4' - 0" | 7' - 0" | HM | HM 2 | HM | 2/A-620 | 1/A-620 | | | 000 | 109 | FRAMED OPENING |
| 110 | A | 2' - 0" | 7' - 0" | SCWD | HM 1 | HM | 2/A-620 | 1/A-620 | | | 503S | 110 | |
| 110.1 | A | 2' - 0" | 7' - 0" | SCWD | HM 1 | HM | 2/A-620 | 1/A-620 | | | 503S | 110.1 | |
| 111 | | 4' - 0" | 7' - 0" | HM | HM 2 | HM | 2/A-620 | 1/A-620 | | | 000 | 111 | FRAMED OPENING |
| 112 | A | 3' - 0" | 7' - 0" | GHM | HM 1 | GHM | 2/A-620 | 1/A-620 | | | 801 | 112 | |
| 113 | A | 3' - 0" | 7' - 0" | GHM | HM 1 | GHM | 2/A-620 | 1/A-620 | | | 801 | 113 | |
| 114 | A | 3' - 0" | 7' - 0" | GHM | HM 1 | GHM | 2/A-620 | 1/A-620 | | | 201H | 114 | |
| 115 | A | 3' - 0" | 7' - 0" | IGHM | HM 1 | GHM | 4/A-620 | 5/A-620 | 3/A-620 | | 205 | 115 | |
| 116 | A | 2' - 6" | 7' - 0" | SCWD | HM 1 | HM | 2/A-620 | 1/A-620 | | | 503 | 116 | |
| 117 | A | 2' - 6" | 7' - 0" | SCWD | HM 1 | HM | 2/A-620 | 1/A-620 | | | 503 | 117 | |

BATT INSULATION

5/8" GWB EA. SIDE

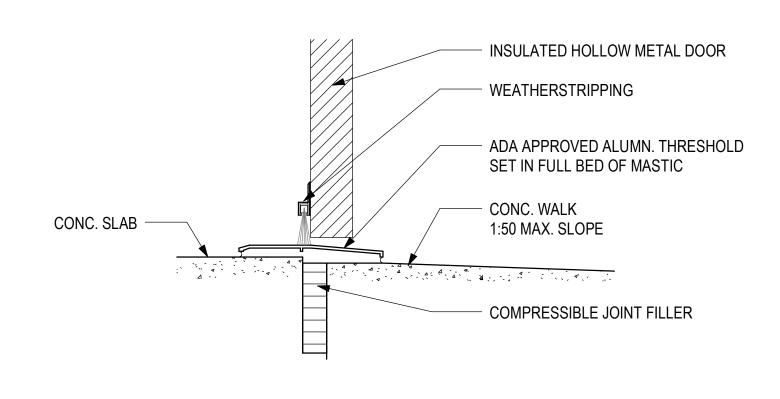
METAL STUD BOX HEADER

MIN. 20 GA. STUD TRACK w/ 1 1/4" LEGS. REFER TO PROJECT MANUAL

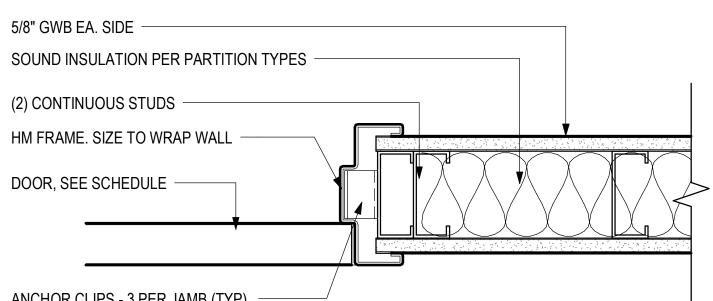
HM FRAME. SIZE TO FIT STUD DEPTH AS -SHOWN. SEE PARTITION TYPES.

DOOR, SEE SCHEDULE

DOOR HEAD @ GWB (2)3" = 1'-0"

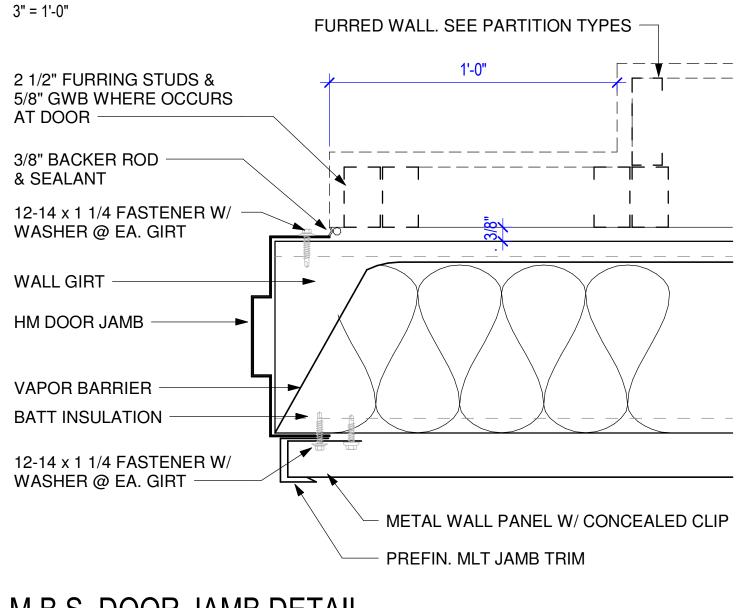


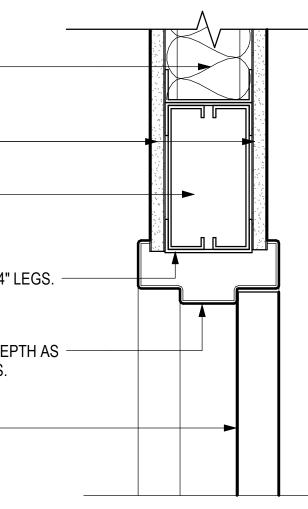
HOLLOW METAL THRESHOLD 3 3" = 1'-0"



ANCHOR CLIPS - 3 PER JAMB (TYP) SPOT GROUT AT ANCHOR CLIPS

JAMB, DOOR @ GWB AND STUDS

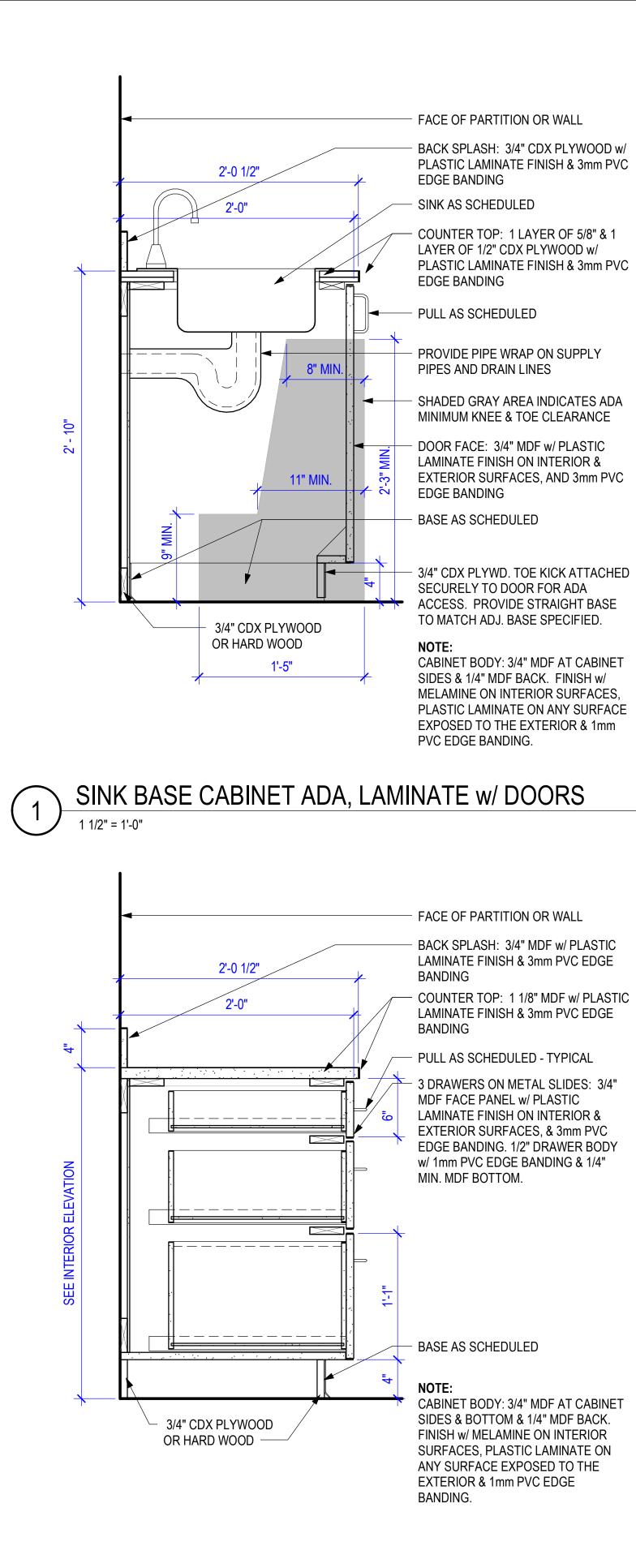






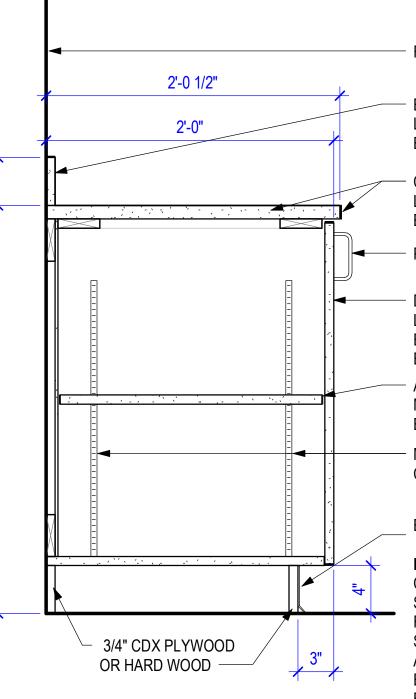


| Project AEROJET ROCKETDYNE A17 CONTROL BUILDING A17 CONTROL BUILDING EAST CAMDEN, ARKANSAS ARKANSAS |
|---|
| CONSTRUCTION |
| DOCUMENTS Revisions |
| No. Date Description |
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| Notes 1. CROMWELL ARCHITECTS ENGINEERS, INC. |
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| Project Number 2024-210 Issue Date |
| Sheet Title DOOR SCHEDULE & DETAILS |
| Sheet Number |
| A-620 |



BASE CABINET, LAMINATE w/ 3 DRWRS 1 1/2" = 1'-0"

3



- FACE OF PARTITION OR WALL

BACK SPLASH: 3/4" MDF w/ PLASTIC LAMINATE FINISH & 3mm PVC EDGE BANDING

COUNTER TOP: 1 1/8" MDF w/ PLASTIC LAMINATE FINISH & 3mm PVC EDGE BANDING

- PULL AS SCHEDULED

DOOR FACE: 3/4" MDF w/ PLASTIC LAMINATE FINISH ON INTERIOR & EXTERIOR SURFACES, AND 3mm PVC EDGE BANDING

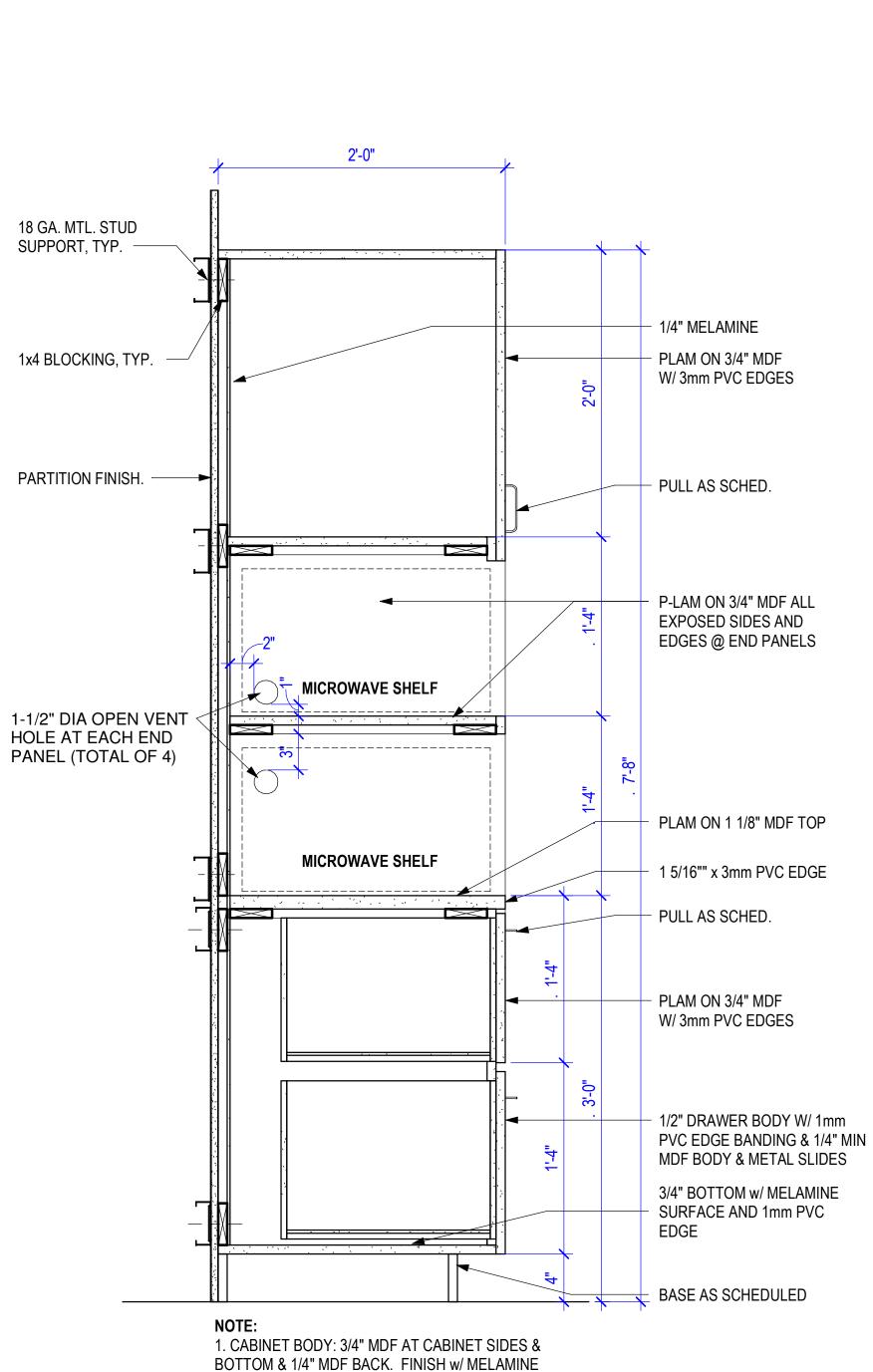
ADJUSTABLE SHELF: 3/4" MDF w/ MELAMINE FINISH & 1mm PVC EDGE BANDING

METAL SHELF STANDARDS LET-INTO CABINET BODY SIDES

BASE AS SCHEDULED

NOTE:

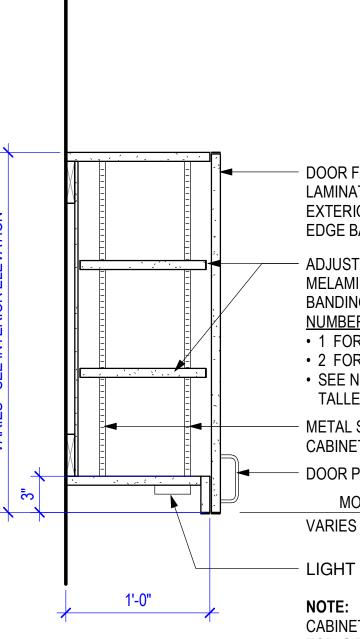
CABINET BODY: 3/4" MDF AT CABINET SIDES & BOTTOM & 1/4" MDF BACK. FINISH w/ MELAMINE ON INTERIOR SURFACES, PLASTIC LAMINATE ON ANY SURFACE EXPOSED TO THE EXTERIOR & 1mm PVC EDGE BANDING.



BASE CABINET, LAMINATE w/ DOORS

1 1/2" = 1'-0"

2



DOOR FACE: 3/4" MDF w/ PLASTIC LAMINATE FINISH ON INTERIOR & EXTERIOR SURFACES, AND 3mm PVC EDGE BANDING

- ADJUSTABLE SHELF: 3/4" MDF w/ MELAMINE FINISH & 1mm PVC EDGE BANDING
- NUMBER OF SHELVES REQ'D: • 1 FOR CABINETS 16" - 24" HIGH
- 2 FOR CABINETS 25" 36" HIGH SEE NOTE ON INT. ELEV. FOR
- TALLER CABINETS METAL SHELF STANDARDS LET-INTO CABINET BODY SIDES

DOOR PULL AS SCHED. MOUNTING HT.

VARIES - SEE ELEV.

LIGHT FIXTURE. SEE ELECT DWGS

CABINET BODY: 3/4" MDF AT CABINET TOP, SIDES & BOTTOM & 1/4" MDF BACK. FINISH w/ MELAMINE ON INTERIOR SURFACES, PLASTIC LAMINATE ON ANY SURFACE **EXPOSED TO THE EXTERIOR & 1mm** PVC EDGE BANDING.

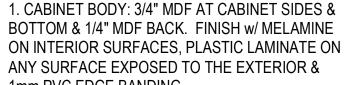


MICROWAVE STACK DETAIL 1 1/2" = 1'-0"

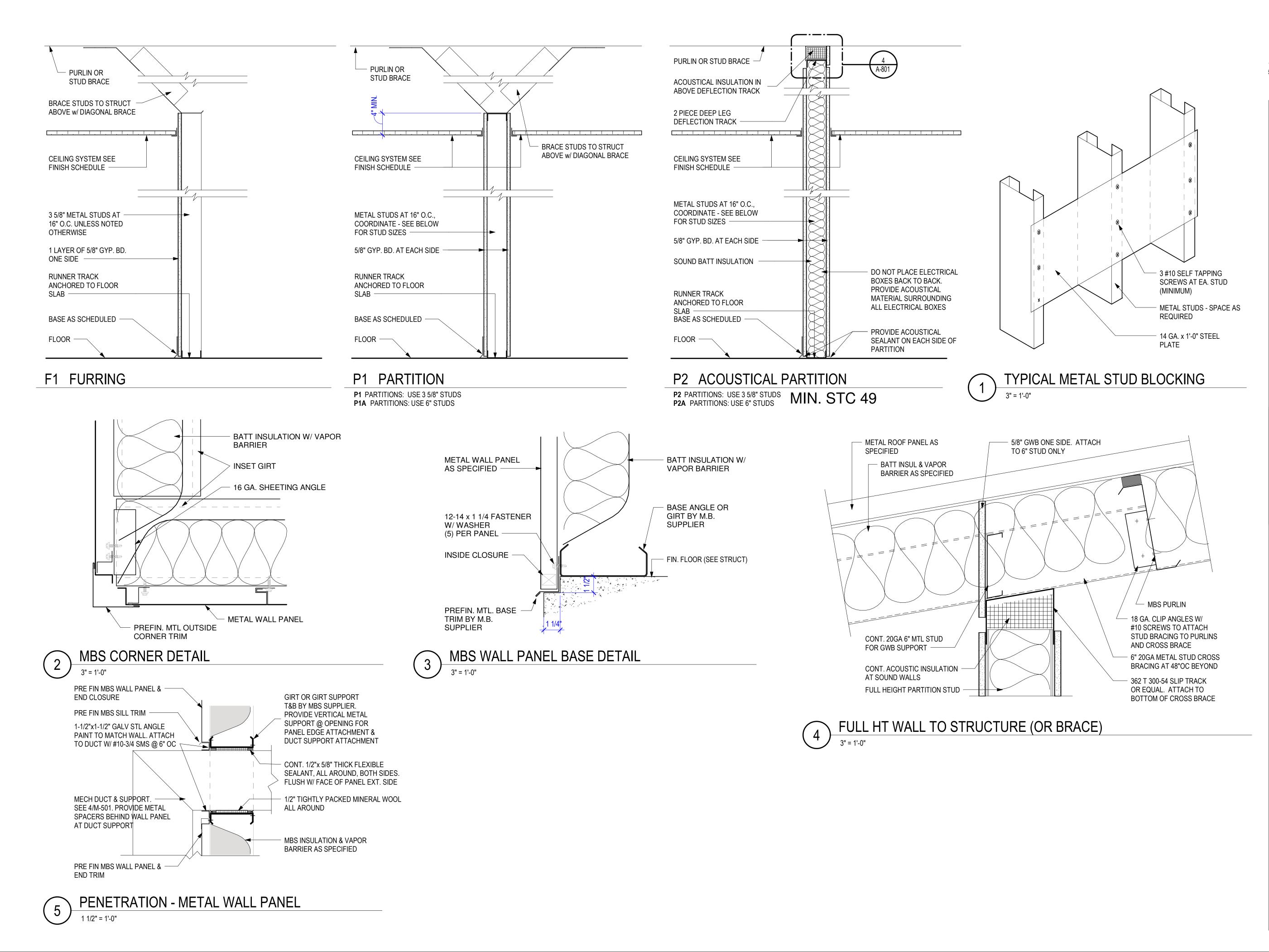
5

1mm PVC EDGE BANDING.





| Project |
|--|
| A EROJET ROCKETDYNE A 17 CONTROL BUILDING EAST CAMDEN, ARKANSAS |
| CONSTRUCTION |
| DOCUMENTS |
| Revisions No. Date Description |
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| Stamp |
| REGISTERED ARCHITECTS PARANSAS STERED ARCHITECTS No. 3339 KRANSAS |
| 02-20-2025 |
| Notes 1. CROMWELL ARCHITECTS ENGINEERS, INC. ALL RIGHTS RESERVED |
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| Project Number 2024-210 |
| Issue Date 02-20-2025 |
| MILLWORK DETAILS |
| Sheet Number |
| A-701 |



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| 1300 Ea 501.372 | | | eet | Little | | · | 722 ell.co | |

| Revis | In the second se | CUI | EAST CAMDEN, | |
|--------|--|--|--------------------------------------|------------------------------|
| No. | Date | Desc | cription | |
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| Note | s | REGISTARCHI ARCHI LERED No. 3 ARKA | APCH NSAS 1339 NSAS OZ-Z | 0-2025 |
| | CROMWELL A | | | IEERS, INC. |
| C B | CRITICAL INFO LACK AND V | ORMATI | ON MAY B | OR PRINTING. SE LOST WITH |
| 2 | ct Number Date —— | | 2 | 2024-210 |
| | t Title | | 02 | -20-2025 |
| | PARTI | TION DET# | | ES & |
| | A | -8 | 801 | |

| k Ø R A A B A BV | AND | GPM | GALLONS PER MINUTE |
|---------------------------------------|---|-----------------|---|
| R A AB ABV | ROUND | GPM HD | HEAD |
| AB ABV | ON ROOF | H.P. | HIGH PRESSURE |
| ABV | AIR | HTG | HEATING |
| | ABOVE BASE | IN | |
| | ABOVE | INL INSUL | INLET INSULATION |
| ACOUS ADD | ACOUSTICAL ADDENDUM | INSUL | INSULATION INCHES WATER GAUGE |
| ADDL | ADDITIONAL | ITC | INSPECTOR TEST CONNECT |
| \FF | ABOVE FINISHED FLOOR | JT | JOINT |
| ١G | ABOVE GROUND | LAB | LABORATORY |
| λHJ | AUTHORITY HAVING JURISDICTION | | |
| | ALTERNATE | LB LB/HR | POUND POUNDS PER HOUR |
| ALV ALUM | ALARM VALVE ALUMINUM | LB/NR LF | LINEAL FOOT |
| NP | ACCESS PANEL | LDC | LOCATION |
| | ARCHITECT/ARCHITECTURAL | LP | LOW PRESSURE |
| | AUTOMATIC | MA | MIXED AIR |
| UX | | MAN | MANUAL |
| FF FV | BELOW FINISHED FLOOR | MAX | MAXIMUM |
| SMT | BUTTERFLY VALVE BASEMENT | MD MFR | MOTORIZED DAMPER MANUFACTURER |
| TWN | BETWEEN | MIN | MINIMUM |
| AP | CAPACITY | MISC | MISCELLANEOUS |
| FCV | CONSTANT FLOW CNTRL. VL. | MRA | MOST HYDRAULICALY |
| FM | CUBIC FEET PER MINUTE | | DEMANDING AREA |
| | | NIC | NOT IN CONTRACT |
| | COMMON INTELLIGEBELITY SYS. | NFPA | NATIONAL FIRE PROTECTION |
| CEG COL | CEILING COLUMN | | ASSOCIATION |
| COL | COLUMN | NP NTS | NOT POTABLE NOT TO SCALE |
| CONC | CONCRETE | 0 | OXYGEN |
| | CONTINUE/CONTINUATION | OPNG | |
| OORD | COORDINATE | PD | PRESSURE DROP |
| OR | CONTRACTOR OFFICES REP. | | |
| | | PR | |
| UFT)/° | | PREL PS | |
| - | DEGREE DETECTOR CHECK ASSY. | - | |
| | DOUBLE DETECTOR CK. ASSY. | | PRESS. REDUCING VALVE |
| IA | DIAMETER | PSI | LBS. PER SQ. IN. |
| | DUCTILE IRON | | LBS. PER SQ. IN. GAUGE |
| | | PW | - |
| MPR | DAMPER | REC RED | RECESSED REDUCER |
| N WG | DOWN DRAWING | REQD | |
| - | EACH | SF | - |
| | | | SMOKE DAMPER |
| AH | EXHAUST HOOD | SIM | SIMILAR |
| X | EXISTING | SLV | |
| | | SP SPS | |
| | EXPANSION JOINT | SQ | SQUARE |
| SP | EXTERNAL STATIC PRESSURE DEGREES FAHRENHEIT | SS | STAINLESS STEEL |
| | FIRE DAMPER | STD | |
| | | T | THERMOSTAT |
| ΉR | FIRE HOSE STATION | SYS | |
| | FIRE HOSE VALVE | TCP TD | TEMP. CONTROL PANEL TEMPERATURE DROP |
| PI LEX | FINS PER INCH FLEXIBLE | TEMP | TEMPERATURE |
| lex LG | FLEXIBLE FLANGE | TSP | TOTAL STATIC PRESSURE |
| T | FOOT/FEET | TYP | TYPICAL |
| - | FOOTING | U/G | UNDER GROUND |
| UT | FUTURE | U/S | |
| AL | GALLON | UNO VL | UNLESS NOTED OTHERWISE |
| ALV | GALVANIZED | νL | |
| | EQUIPMENT ABB | | IONS |
| | · | | |
| DBP DCA | DOMESTIC WATER BOOST PUMP DETECTOR CHECK ASSY. | FDCP FMCP | |
| DCA | DOUBLE DETECTOR CHECK ASSY. | | F.A. ANNUNCIATOR PNL. |
| FHR | FIRE HOSE STATION | LOC | LOCAL OPERATOR CONSOLE |
| F.A. | FIRE ALARM | NRSV | NON-RISING STEM VALVE |
| FPU | FIRE PUMP | ITC | INSPECTOR'S TEST |
| FDC | FIRE DEPARTMENT CONTROL | PNL | PANEL |
| | FIRE ALARM | PHASIN | G |
| | /NE | W CONS | STRUCTION FIRE |
| | | | IT (TYPICAL TAG FOR ALL |
| | | W CONS | STRUCTION) |
| | <u> </u> | | |
| | /—-EX | ISTING F | FIRE ALARM EQUIPMENT |
| | | | XISTING TAGS) (TYPICAL |
| | | | |
| | (E)FACP | | |
| | | | |
| | | | DN (TYPICAL FOR ALL |
| | | N/17 VI I I I I | |
| | DE | MOLITIC | , |
| | (D)FACP | | |
| | (D)FACP FIRE ALARM SHE | ET SET | |
| | (D)FACP DE FIRE ALARM SHE * NOT | ET SET | NOTE |
| | (D)FACP FIRE ALARM SHE | ET SET | NOTE ARE TO BE APPLIED TO |

| [| #### | |
|---|---|--|
| l | | FIRE ALARM PANEL TYI |
| | CONTROL PANE | ELS ABBREVIATIONS: |
| APM ACU BATT FMCP DACT FAA FACP FSCP GAP LCD LOC NAC PRE PRN MIC UPS EVAC | DIGITAL ALARM C FIRE ALARM ANN FIRE ALARM CON FIRE SUPPRESSI GRAPHIC ANNUN LCD ANNUNCIATO LOCAL OPERATO NOTIFICATION CI PRE-ACTION SYS PRINTER REMOTE VOICE | ONTROL UNIT ET RM/MASS NOTIFICATION CO COMMUNICATOR TRANSMIT UNCIATOR ITROL ON CONTROL CIATOR OR OR ORS CONTROL RCUIT POWER BOOSTER STEM E POWER SUPPLY |
| | F | |
| | ### | FIRE ALARM ABORT S\ TYPE |
| | ABORT SW | ITCH ABBREVIATIONS: |
| AS CO2 CA DL DC EPO F HL PRE WM WC | ABORT SWITCH CARBON DIOXID CLEAN AGENT DELUGE SPRINK DRY CHEMICAL EMERGENCY PC FOAM HALON PREACTION SYS WATER MIST WET CHEMICAL | UER WER OFF |
| | F ### | FIRE ALARM PULL STATION FIRE ALARM PULL STATION TYPE |
| | PULL STAT | ION ABBREVAITIONS: |
| CO2 CA DL DC F HL M P WM WC | CARBON DIOXID CLEAN AGENT DELUGE SPRINK DRY CHEMICAL FOAM HALON MANUAL PULL STATAION WATER MIST WET CHEMICAL | |
| SYMBOI | _ DESCRIPTIO | N |

FIRE ALARM DEVICES

| Z15 C | CEILING MOUNT HORN AND CLEAR STROP |
|----------|-------------------------------------|
| 715 | WALL MOUNT HORN AND CLEAR STROBE |
| 15 | CEILING MOUNT CLEAR STROBE, 15 CANE |
| 15 | |

| | GENERAL SYMBOLS |
|------------------------------|---|
| PANEL | REVISION NUMBER SHOWN ON PLANS |
| PE | POINT WHERE NEW CONNECTS TO EXISTING |
| | DEMOLISH TO POINT INDICATED |
| | 1 NUMBER OF DETAIL ON SHEET NUMBER OF SHEET WHERE DETAIL APPEARS |
| ONTROL TER | (1) KEYNOTE |
| | \sim PIPE CONTINUATION |
| | SPACE TAG: OFFICESPACE NAME |
| | 101 - SPACE NUMBER |
| | ITEM TO BE DEMOLISHED |
| | AREA NOT IN CONTRACT |
| WITCH | FIRE ALARM DEVICE MOUNTING NOTE |
| WITCH | WALL MOUNTED VISUAL DEVICES TO BE LOCATED SUCH THAT THE ENTIRE LENS OF THE STROBE IS BETWEEN 80" AND 96" AFF. ALL WALL MOUNTED NOTIFICATION DEVICES SHALL BE MOUNTED AT THE SAME HEIGHT AFF TO ACHIEVE A UNIFORM APPEARANCE OR AS DIRECTED BY THE A/E. WATTAGE AND CANDELA ARE GUIDELINES. CONTRACTOR RESPONSIBLE FOR FINAL SPACING AND TOTAL DEVICE POWER. |
| SYMBO | L DESCRIPTION |
| $\langle s \rangle_{P}$ | SPOT-TYPE SMOKE DETECTOR (P-PHOTO, I-IONIZATION, SB-SOUNDER BASE) |
| s s | DUCT SMOKE DETECTOR (S-SUPPLY, R-RETURN) |
| $\langle \downarrow \rangle$ | HEAT DETECTOR (RATE OF RISE) |
| F | MANUAL PULL STATION (48" AFF UNLESS NOTED OTHERWISE) |
| WF | WATER FLOW SWITCH |
| VS | VALVE SUPERVISORY (TAMPER) SWITCH |
| DH | DOOR HOLD OPEN MODULE. PROVIDE FIRE ALARM LISTED HOLD-OPEN ASSEMBLY IF NOT CALLED OUT IN DOOR HARDWARE SCHEDULE. |
| Ē | ELECTRIC BELL FOR WATER FLOW. INSTALL AT 9'+/- ABOVE FINISHED GRADE OR AS DIRECTED BY FIRE MARSHAL. |
| AIM | ADDRESSABLE MODULE (AIM - INPUT, AOM - OUTPUT, AIO - INPUT/OUTPUT) |
| $\langle \rangle$ | UV FLAME DETECTOR |
| | |

DBE, 15 CANDELA UNLESS NOTED OTHERWISE

, 15 CANDELA UNLESS NOTED OTHERWISE

DELA UNLESS NOTED OTHERWISE

WALL MOUNT CLEAR STROBE, 15 CANDELA UNLESS NOTED OTHERWISE

| ENI | ERAL |
|--|--|
| 1. | FIRE ALARM SYSTEM AND DEVICES SHALL BE INSTALLED TO THE LATEST EDITION OF NFPA 72, NFP 70, AND LOCAL REQUIRMENTS. |
| 2. | ALL FIRE ALARM INSTALLATIONS, INCLUDING PULLING OF WIRE AND MOUNTING OF DIVICES, SHALL HAVE OVERSIGHT OF A NICET LEVEL II FIRE ALARM TECHNICIAN OR HIGHER. |
| 3. | STROBES SHALL BE SYNCHRONIZED PER NFPA 72. |
| 4. 5. | ALL FIRE ALARM CABLE SHALL BE RUN IN RED FACTORY COLORED CONDUIT. THESE DESIGN DOCUMENTS PROVIDE GENERAL SPACING, LOCATION, AND COORDINATION CRITEF CONTRACTOR SHALL BE RESPONSIBLE FOR CIRCUIT CONFIGURATION, SYSTEM PERFORMANCE, SOFTWARE CONFIGURATION, DEVICE PROGRAMMING, SYSTEM COMMISSIONING, AND SYSTEM WARRANTY. |
| 6. | CONTRACTOR SHALL SUBMIT FIRE ALARM, DATA CUT-SHEETS, AND VOLTAGE DROP CALCULATION AHJ AND A/E FOR REVIEW AND APPROVAL PRIOR TO BEGINNING ANY WORK ON THE FA SYSTEM. |
| 7. | NO FA DOCUMENTS/PLANS SHALL BE USED FOR INSTALLATION OF THIS SYSTEM UNLESS THEY CONTAIN A REVIEW AND APPROVAL STAMP FROM THE AHJ AND THE A/E. THE LOCAL AHJ HAS THE AUTHORITY TO STOP ANY WORK UNTIL SUCH PLANS ARE ON SITE AND IN USE. |
| 8. | SEPARATE FIRE ALARM SPECIFICATIONS CONTAIN VERY DETAILED INFORMATION ABOUT THIS SYS AND SHALL BE FOLLOWED, ON-SITE AND AVAILABLE DURING ANY CONSTRUCTION. |
| 9. | SECONDARY POWER PERFORMANCE TO MEET NFPA 72. 24 HOURS OF STANDBY POWER FOLLOWE BY 15 MINUTES OF ALARM FOR ALL CONNECTED DEVICES AT MAXIMUM LOAD. SECONDARY POWEF FOR THE SYSTEM SHALL ALSO BE DESIGNED TO OPERATE MAXIMUM CONNECTER ALARM LOAD FO MINUTES IMMEDIATELY FOLLOWING DISCONNECTION OF PRIMARY POWER. |
| 10. | CIRCUITS TO BE 24V TYPICAL. |
| | |
| 00/ | ATION / SPACING |
| OC/ 1. | IN ACCORDANCE WITH 2019 NFPA 72, STROBES MAY BE MORE THAN 15 FEET FROM THE END OF A |
| | |
| 1. | IN ACCORDANCE WITH 2019 NFPA 72, STROBES MAY BE MORE THAN 15 FEET FROM THE END OF A CORRIDOR WHEN ROOM SPACING CRITERIA APPLIES USING THE APPROPRIATE CANDELA. WALL MOUNTED SPEAKER, STROBES, OR SPEAKER/STROBES SHALL BE AT 96" OR 6" BELOW THE |
| 1. 2. 3. 4. | IN ACCORDANCE WITH 2019 NFPA 72, STROBES MAY BE MORE THAN 15 FEET FROM THE END OF A CORRIDOR WHEN ROOM SPACING CRITERIA APPLIES USING THE APPROPRIATE CANDELA. WALL MOUNTED SPEAKER, STROBES, OR SPEAKER/STROBES SHALL BE AT 96" OR 6" BELOW THE CEILING, WHICHEVER IS LOWER. |
| 1. 2. 3. 4. 5. | IN ACCORDANCE WITH 2019 NFPA 72, STROBES MAY BE MORE THAN 15 FEET FROM THE END OF A CORRIDOR WHEN ROOM SPACING CRITERIA APPLIES USING THE APPROPRIATE CANDELA. WALL MOUNTED SPEAKER, STROBES, OR SPEAKER/STROBES SHALL BE AT 96" OR 6" BELOW THE CEILING, WHICHEVER IS LOWER. ALL SMOKE DETECTORS SHALL BE LOCATED WHERE THEY CAN BE READILY SERVICED. ALL SMOKE DETECTORS SHALL BE CEILING MOUNTED OR WITHIN 12" OF THE CEILING. SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN 3' OF AN AIR-SUPPLY OR RETURN GRILLE PI MFG CRITERIA AND APPENDIX 'A' OF NFPA 72. |
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| 1. 2. 3. 4. 5. 6. 7. 8. | IN ACCORDANCE WITH 2019 NFPA 72, STROBES MAY BE MORE THAN 15 FEET FROM THE END OF A CORRIDOR WHEN ROOM SPACING CRITERIA APPLIES USING THE APPROPRIATE CANDELA. WALL MOUNTED SPEAKER, STROBES, OR SPEAKER/STROBES SHALL BE AT 96" OR 6" BELOW THE CEILING, WHICHEVER IS LOWER. ALL SMOKE DETECTORS SHALL BE LOCATED WHERE THEY CAN BE READILY SERVICED. ALL SMOKE DETECTORS SHALL BE CEILING MOUNTED OR WITHIN 12" OF THE CEILING. SMOKE DETECTORS SHALL BE CEILING MOUNTED OR WITHIN 12" OF THE CEILING. SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN 3' OF AN AIR-SUPPLY OR RETURN GRILLE PI MFG CRITERIA AND APPENDIX 'A' OF NFPA 72. EACH POWER BOOSTER PANEL OR FIRE ALARM PANEL SHALL BE PROTECTED BY A SMOKE DETECTOR. WHEN PROVIDED, AREA DETECTORS WITHIN THE SAME SPACE WILL SATISFY THIS REQUIREMENT. AIR HANDLER SYSTEMS OVER 2,000 CFM SHALL BE PROVIDED WITH MEANS TO SHUT DOWN UPON DETECTION OF SMOKE. THESE DETECTORS SHALL NOT INITIATE A GENERAL FIRE ALARM. DAMPER AND HVAC SMOKE DETECTORS SHALL BE PROVIDED BY THE FIRE ALARM CONTRACTOR, LISTED WITH THE FIRE ALARM SYSTEM, AND INCORPORATE ADDRESSABLE MODULES. WHERE APPLICABLE, SMOKE DETECTORS FOR AIR-HANDLER SHUT DOWN SHALL BE ON BOTH SUP |

INSTALLATION OF SMOKE DETECTORS.

SMOKE DETECTORS IS STRICTLY PROHIBITED.

CONTRACTOR SHOULD PERFORM THIS FUNCTION.

2.

3.

4.

5.

2.

3.

4.

5.

ACCEPTANCE TESTING

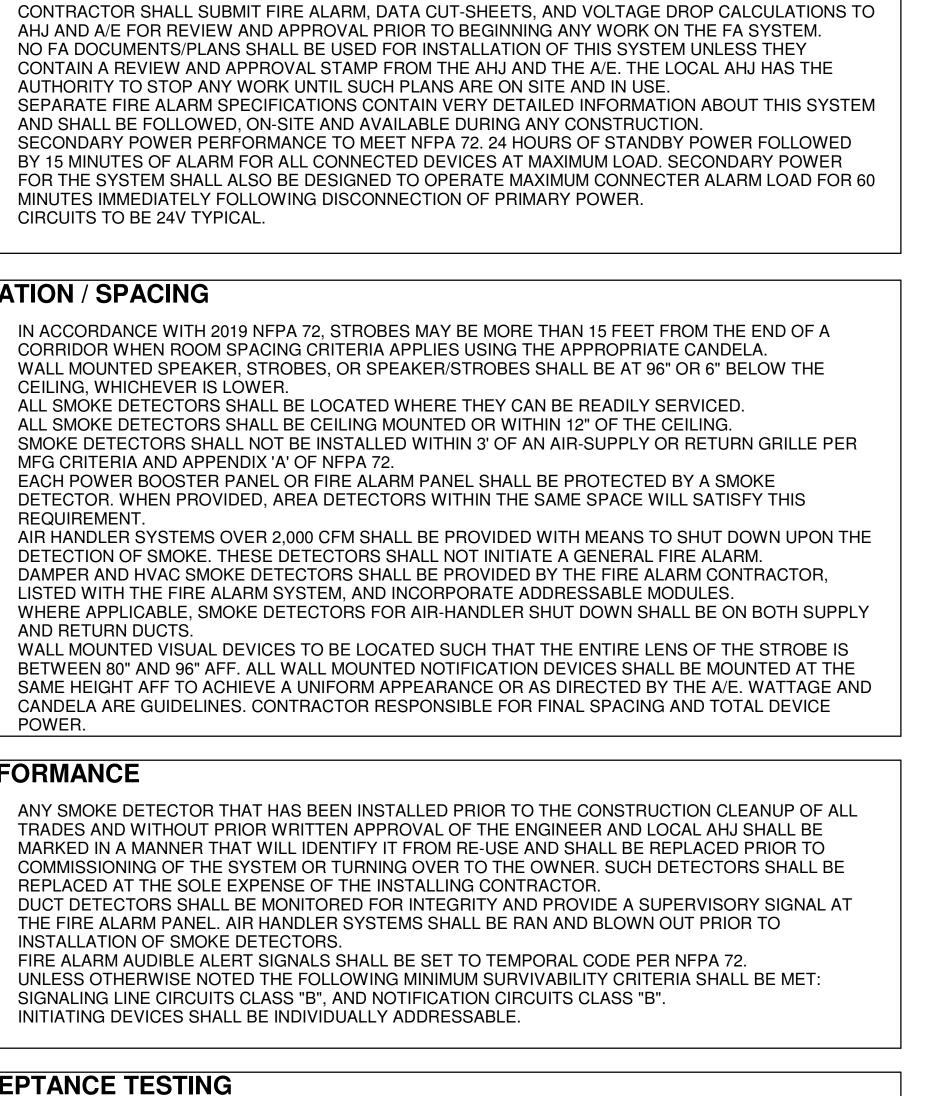
OVER TO THE OWNER.

END-OF-LINE CALCULATIONS.



501.372.2900

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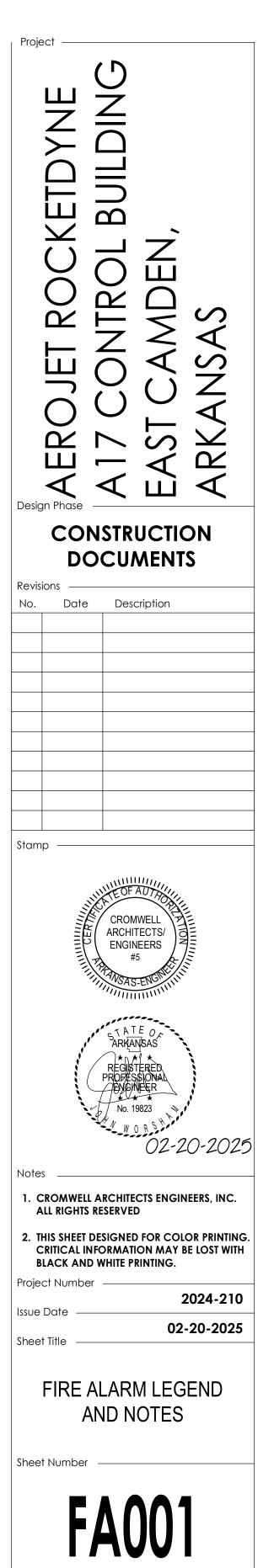


A COMPLETED AND SIGNED RECORD (CERTIFICATE) OF COMPLETION FORM SHALL BE PROVIDED BY THE CONTRACTOR TO THE AHJ, OWNER, AND A/E PRIOR TO COMMISSION TESTING. THIS CERTIFICATE SHALL CERTIFY THAT THE CONTRACTOR HAS PRE-TESTED EVERY DEVICE AND FUNCTION OF THE SYSTEM AND REPAIRED ANY DEFICIENCIES PRIOR TO THE COMMISSIONING TEST. ALL SMOKE DETECTORS SHALL BE COMMISSIONED USING CANNED SMOKE OR A METHOD THAT WILL FUNCTIONALLY TEST THE SMOKE CHAMBER. THE USE OF MAGNETS FOR COMMISSION TESTING OF

EACH AND EVERY DEVICE SHALL BE TESTED DURING COMMISSIONING AND PRIOR TO BEING TURNED

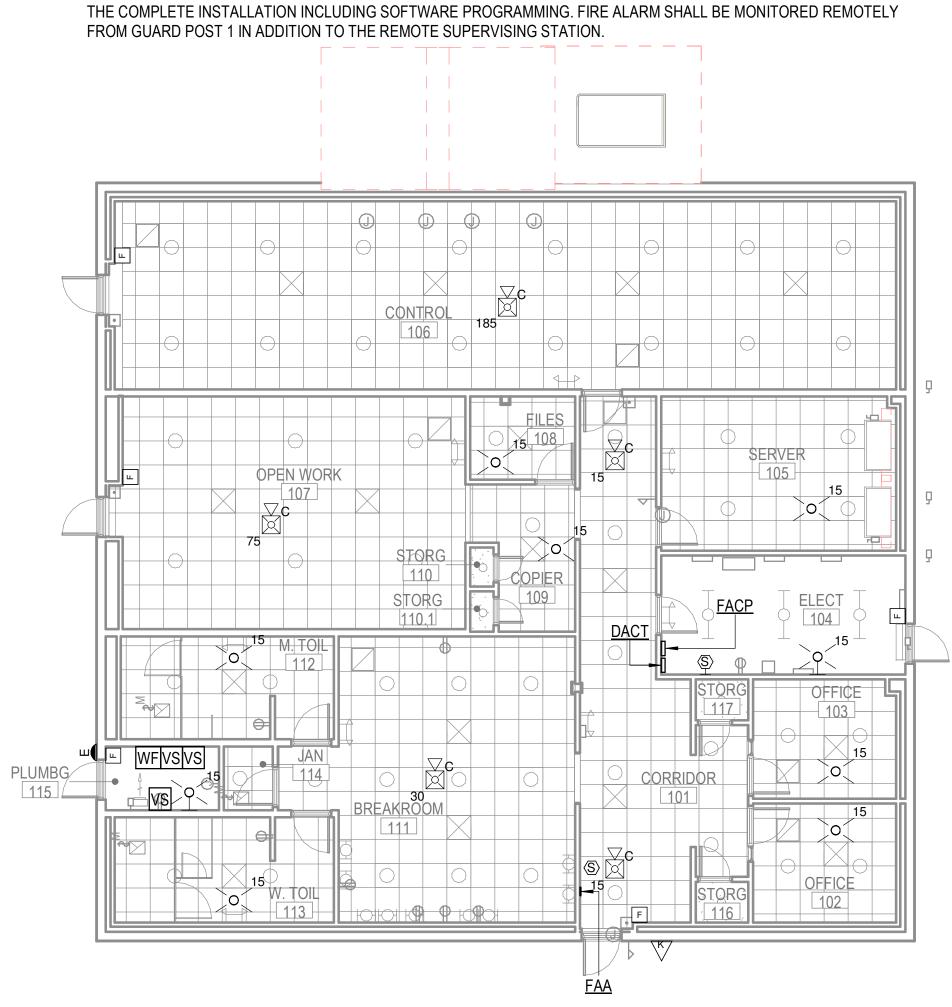
EACH NOTIFICATION CIRCUIT SHALL BE TESTED UNDER STANDBY/BATTERY POWER. ANY CIRCUIT THAT MEASURES LESS THAN 20 VOLTS DC OR THE NAMEPLATE VOLTAGE, WHICHEVER IS HIGHER, SHALL BE CONSIDERED AS FAILING THE DESIGN. NOTE: SOME SYSTEMS INCORPORATING SYNCHRONIZING MODULES CAN IMPAIR RESULTS. IF THE MODULE CANNOT BE BYPASSED FOR VOLTAGE READINGS, THE MANUFACTURER SHOULD BE CONTACTED FOR GUIDANCE. WHEN VOLTAGE CANNOT BE MEASURED, CIRCUIT WIRE RESISTANCE READINGS AND DEVICE LOAD MAY BE COMPARED TO DESIGN CALCULATIONS (MAKE SURE CIRCUIT IS REMOVED FROM POWER SUPPLY WHEN OBTAINING WIRE RESISTANCE). ONLY A QUALIFIED TECHNICIAN EMPLOYED BY THE INSTALLING

EACH CIRCUIT'S END-OF-LINE VOLTAGE SHALL BE DOCUMENTED FOR COMPARISON TO THE DESIGN



NOTE:

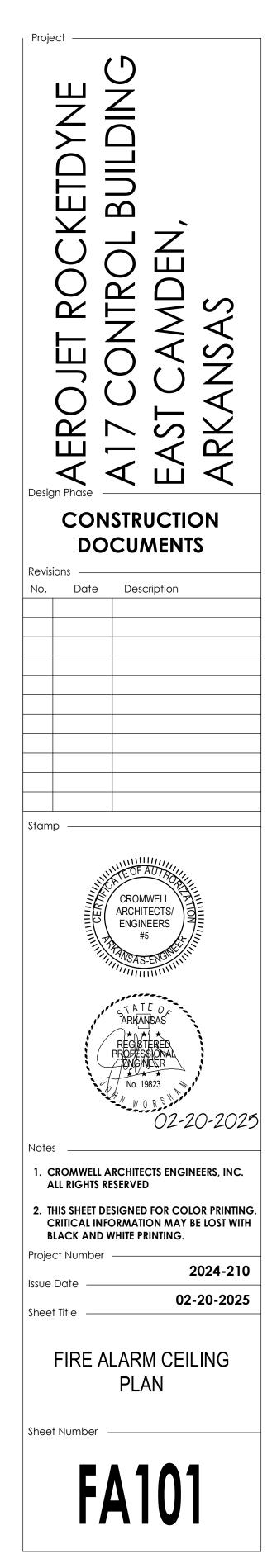
THE FIRE ALARM TRANSMITTER SHALL BE FULLY COMPATIBLE WITH THE EXISTING PROPRIETARY SUPERVISING STATION RECEIVING EQUIPMENT. THE CONTRACTOR IS RESPONSIBLE FOR ALL ASSOCIATED HARDWIRE AND COMPONENTS FOR



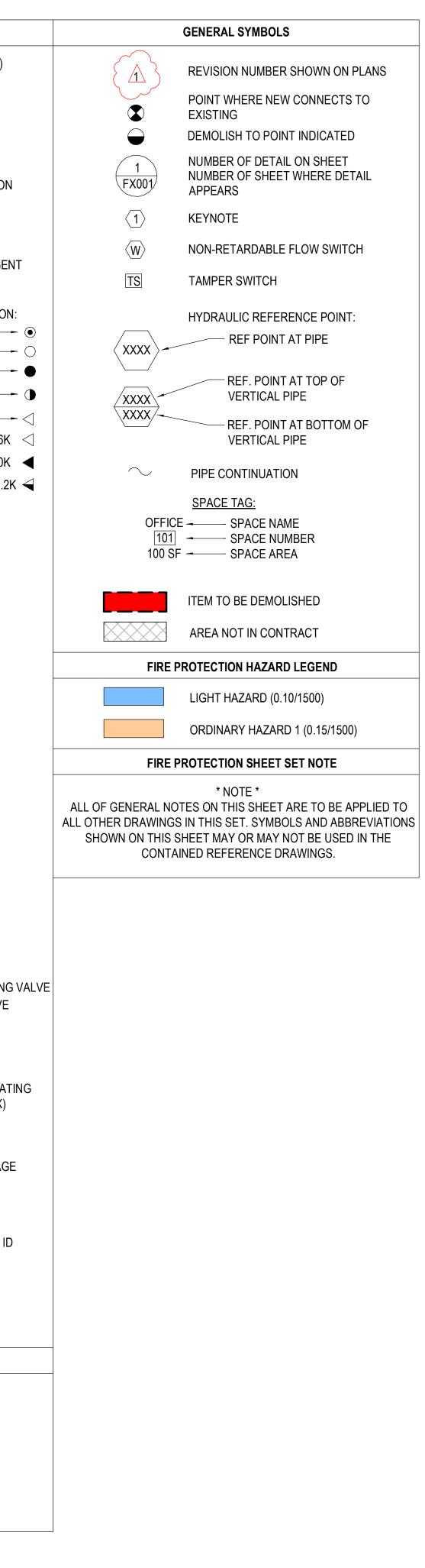
FIRE ALARM CEILING PLAN 1/8" = 1'-0" 0 4 8 16 1

- NORTH





| | ABBREVI | ATIONS | | FIRE PRO | TECTION PIPING LEGEND |
|-------------|--|---------------|--|--|-----------------------------------|
| & Ø | AND ROUND | GPM HD | GALLONS PER MINUTE HEAD | 6" | PIPE SIZE TAG (DIAMETER Ø") |
| | ON ROOF | H.P. | HIGH PRESSURE | (E) | EXISTING TO REMAIN PIPE |
| A AB | AIR ABOVE BASE | HTG IN | HEATING INCH | (D) | DEMOLISHED PIPE |
| | ABOVE | INL | INLET | 6" FP-D | PIPE SIZE AND SYSTEM TAG |
| | ACOUSTICAL ADDENDUM | INSUL INWG | INSULATION INCHES WATER GAUGE | - | |
| | ADDITIONAL | ITC | INSPECTOR TEST CONNECT | FP-D | FIRE PROTECTION DRY |
| | ABOVE FINISHED FLOOR | JT LAB | JOINT LABORATORY | FP-PA | FIRE PROTECTION PRE-ACTION |
| | ABOVE GROUND AUTHORITY HAVING JURISDICTION | | LABURATURY | □ FP-W □ ■ ■ | FIRE PROTECTION WET |
| ALT | ALTERNATE | | | FP-0 | FIRE PROTECTION OTHER |
| | ALARM VALVE ALUMINUM | LB/HR LF | POUNDS PER HOUR LINEAL FOOT | FP-C | FIRE PROTECTION CLEAN AGENT |
| AP | ACCESS PANEL | LOC | LOCATION | | |
| | ARCHITECT/ARCHITECTURAL AUTOMATIC | LP | | | <u>SPRINKLERS</u> |
| AUX | AUXILLARY DRAIN | MA MAN | MIXED AIR MANUAL | K-VALUE SYMBOLS: | SPRINKLER ORIENTATION: |
| | BELOW FINISHED FLOOR BUTTERFLY VALVE | MAX | MAXIMUM | ○ ─ <u></u> 5.6 | CONCEALED |
| | BASEMENT | MCW | MAKE-UP COLD WATER | <>─── 8.0 | PENDENT |
| | BETWEEN CAPACITY | MD | MOTORIZED DAMPER | □ 11.2 | |
| | CONSTANT FLOW CNTRL. VL. | MFR MIN | MANUFACTURER MINIMUM | <>──────────────────────────────────── | RECESSED |
| CFM | CUBIC FEET PER MINUTE | MISC | MISCELLANEOUS | 25.2 | |
| | CAST IRON COMMON INTELLIGEBELITY SYS. | MRA | MOST HYDRAULICALY DEMANDING AREA | | • VERTICAL SIDEWALL - 5.6K |
| CEG | CEILING | NFPA | NOT IN CONTRACT | | • VERTICAL SIDEWALL - 8.0K |
| | COLUMN COMBINATION | | NATIONAL FIRE PROTECTION | | • VERTICAL SIDEWALL - 11.2K |
| | CONCRETE | NP | ASSOCIATION NOT POTABLE | | |
| | CONTINUE/CONTINUATION | NTS | NOT TO SCALE | | |
| | COORDINATE CONTRACTOR OFFICES REP. | 0 OPNG | OXYGEN OPENING | METAI | LIC PIPE SYMBOLS |
| CTR | CENTER | PD | PRESSURE DROP | | PIPE TEE |
| | CUBIC FEET DEGREE | PIV PR | POST INDICATOR VALVE | | |
| | DETECTOR CHECK ASSY. | PREL | PRELIMINARY | | PIPE CAP |
| | DOUBLE DETECTOR CK. ASSY. DIAMETER | PS PRIM | PRESSURE PRIMARY | | PIPE RISE |
| | DUCTILE IRON | PRV | PRESS. REDUCING VALVE | PLAS | TIC PIPE SYMBOLS |
| | DISCHARGE | PSI PSIG | LBS. PER SQ. IN. LBS. PER SQ. IN. GAUGE | | |
| | DAMPER DOWN | PW | POTABLE WATER | | PIPE CAP |
| DWG | DRAWING | REC | RECESSED | | PIPE WYE 8TH TEE |
| | EACH EMERGENCY COMM. SYSTEM | RED REQD | REDUCER REQUIRED | | PIPE DROP |
| EAH | EXHAUST HOOD | SF | SQUARE FOOT | | PIPE CROSS |
| | EXISTING | SD SIM | SMOKE DAMPER SIMILAR | | PIPE PLUG |
| | EXPANSION EXPANSION JOINT | SLV | SLEEVE | | |
| ESP | EXTERNAL STATIC PRESSURE | SP SPS | STATIC PRESSURE STATIC PRESSURE STATION | | |
| | DEGREES FAHRENHEIT FIRE DAMPER | SQ | SQUARE | | |
| | FIRE DEPARTMENT VALVE | SS | STAINLESS STEEL | PIP | E ACCESSORIES |
| | FIRE HOSE STATION FIRE HOSE VALVE | STD T | STANDARD THERMOSTAT | | |
| | FINS PER INCH | SYS | SYSTEM | | BALL VALVE |
| | FLEXIBLE | TCP TD | TEMP. CONTROL PANEL TEMPERATURE DROP | | BUTTERFLY VALVE |
| | FLANGE FOOT/FEET | TEMP | TEMPERATURE | | GATE VALVE |
| FTG | FOOTING | TSP TYP | TOTAL STATIC PRESSURE TYPICAL | | GLOBE VALVE PRESSURE REDUCING V |
| | FUTURE GALLON | U/G | UNDER GROUND | | SWING CHECK VALVE |
| | GALVANIZED | U/S | | | |
| | GENERATOR | UNO VL | UNLESS NOTED OTHERWISE VALVE | | |
| GENL | GENERAL | VOL | VOLUME | SPI | RINKLER TAGS |
| | EQUIPMENT ABE | | | | SPRINKLER TEMP RATIN |
| | · | | | €155 °F - | SPRINKLER CAGE (X) |
| AFMS CF | AIR FLOW MEASURING STATION CABINET FAN | FDC FDCP | FIRE DEPARTMENT CONTROL F.A. ACCESS PANEL | EC D | SPRINKLER TYPE: |
| CF | CHEMICAL FEEDER | FMCP | F.A. MASS NOTIFICATION PNL. | | "D" = DRY TYPE "O" = OPEN TYPE |
| DBP | DOMESTIC WATER BOOST PUMP | FAA | F.A. ANNUNCIATOR PNL. | | EXTENDED COVERAGE |
| DCA DDCA | DETECTOR CHECK ASSY. DOUBLE DETECTOR CHECK ASSY | LOC NRSV | LOCAL OPERATOR CONSOLE NON-RISING STEM VALVE | | |
| FHR | FIRE HOSE STATION | ITC | INSPECTOR'S TEST | <u>PIP</u> | E ACCESSORY TAGS |
| | FIRE ALARM FIRE PUMP | PNL | PANEL | /#" DCDA | |
| IFU | | | | | ACCESSORY SIZE & ID |
| | FIRE PROTECTI | ON PHA | SING | | TYPE MARK |
| | | | | ₽, | ACCESSORY SIZE |
| | | | STRUCTION FIRE | #"-#" | (INLET - OUTLET) |
| | | | NT (TYPICAL TAG FOR ALL STRUCTION) | | |
| | #" DCDA | | | FIRE D | EPARTMENT CONNECTIONS |
| | | | | 873 | |
| | | | FIRE EQUIPMENT (TYPICAL EXISTING TAGS) | | |
| | * | | , | | 2-WAY PROJECTING |
| | | | | | |
| | (E)#" DCDA | | | (I ° | |
| | <i>ر</i> | - | PMENT FOR DEMOLITION FOR ALL DEMOLITION TAGS) | | 2-WAY FLUSH PLATE |
| | <i>ر</i> | - | | | |



| GENE | ERAL NOTES |
|------------|---|
| 1. | THE CONTRACTOR SHALL PROVIDE AND INSTALL AN AUTO |
| | PROTECT THIS FACILITY. THE FIRE SPRINKLER SYSTEM SH |
| | PRESCRIPTIVE DESIGN AND CONCEPTUAL ONLY. |
| 2. | THE SPRINKLER CONTRACTOR SHALL SUBMIT COMPLETE |
| | BASED ON NFPA 13 AND SPECIFICATION REQUIREMENTS / INSTALLATION. |
| 3. | THE EQUIPMENT SHOWN ARE SUGGESTED LOCATIONS HO |
| 0. | ACCORDANCE WITH APPLICABLE CODES, MANUFACTURE |
| | LISTINGS. CONTRACTOR SHALL COORDINATE BRANCH LIN |
| | CEILING PANELS, LIGHTING FIXTURES, HVAC DUCTS AND A |
| | NOT SPECIFICALLY NAMED. |
| 4. | ALL EQUIPMENT SHALL BE UL LISTED AND FM APPROVED |
| _ | PROJECT SPECIFICATIONS. |
| 5. | CONTRACTOR SHALL SUBMIT SETS OF FIRE SUPPRESSION |
| | HYDRAULIC CALCULATIONS TO A/E AND AHJ FOR REVIEW WORK ON THE FIRE SUPPRESSION SYSTEM. |
| 6. | THE CONTRACTOR SHALL CONDUCT WATER SUPPLY HYD |
| 0. | NFPA 291 REQUIREMENTS AND UTILIZE THIS DATA TO DES |
| | LOCATIONS, FLOW TESTS, AND DATE SHALL BE INDICATED |
| | SPRINKLER PROTECTION SYSTEM IS REQUIRED TO PROTE |
| | SAFETY FACTOR IS REQUIRED BETWEEN THE AVAILABLE |
| _ | SYSTEM DEMAND. |
| 7. | PROVIDE EARTHQUAKE PROTECTION (SWAY BRACING), EI |
| | CALCULATION IN ACCORDANCE WITH NFPA 13 REQUIREMI BASED ON STRUCTURAL DESIGN DOCUMENTS OR USGS D |
| | SPECTRAL RESPONSE (Ss). |
| 8. | FIRE PROTECTION DEVICES AND PIPING ON PLANS ARE NO |
| • | COST ESTIMATING ONLY. |
| 9. | THE CONTRACTOR SHALL CONFORM TO THE SYMBOLS IN |
| | BUILT DRAWINGS FOR THIS PROJECT. |
| 10. | ALL AUTOMATIC SPRINKLER DRAIN VALVES FOR FIRE DEP |
| 4.4 | INSTALLED IN THE HORIZONTAL POSITION. |
| 11. 12. | FLEXIBLE COUPLINGS SHALL BE INSTALLED IN ACCORDAN ALL DRAIN PIPING SHALL BE COORDINATED WITH AND APP |
| 12. | LOCATION (DOWNSPOUT, DOCK PARKING LOT, ETC.) AND |
| | DISCHARGE (STORM SEWER, SANITARY SEWER, BIOSWAL |
| | OF THE DRAIN WITHOUT SPECIAL TOOLS OR EQUIPMENT |
| | PAVEMENT. |
| 13. | INSPECTOR'S TEST CONNECTION SHALL BE NOT LARGER |
| | REMOTE BRANCH LINE. |
| | |
| | |
| SYST | EM NOTES |
| 1. | ALL SYSTEM PIPING SHALL BE HYDROSTATICALLY TESTED |
| | ABOVE THE OPERATIONAL STATIC PRESSURE OF THE SYS |
| 2. | EACH VALVE SHALL HAVE A PERMANENTLY AFFIXED SIGN |
| | HANDLES MUST BE ACCESSIBLE. |
| 3. | A STOCK OF SPARE SPRINKLERS, NOT LESS THAN 6, CON |
| | STYLE AND TEMPERATURE RATING SHALL BE PROVIDED V |
| | RISER. SPARE SPRINKLER CABINET WILL BE MOUNTED WI |
| 4. | SUBJECTED TO TEMPERATURES ABOVE 100 DEG. F. SPRINKLERS SHALL BE A MINIMUM OF 1/2" NPT 1/2" ORIFIC |
| 4. | SPRINKLERS SHALL BE A MINIMUM OF 1/2 NPT 1/2 ORIFIC |
| | SPRINKLERS WITH WHITE COVER PLATES SHALL BE INSTA |

- SPRINKLERS WITH WHITE COVER PLATES SHALL BE INSTALLED THROUGHOUT FINISHED CEILINGS. OTHER SPRINKLERS SHALL BE GLASS BULB, BRONZE FINISHED WITH AN ORIFICE AND THREAD SIZE APPROPRIATE FOR THE HAZARD AND DENSITY.
- BRANCH LINE CONNECTIONS TO THE MAIN SHALL BE PRE-DRILLED. SHOP WELDED OUTLETS OR OTHER CONNECTIONS AS APPROVED, MECHANICAL TEES SHALL NOT BE USED ON NEW SYSTEMS. MAIN PIPING FOR THE SYSTEMS SHALL BE SCHEDULE 40. BRANCH LINE PIPING FOR THIS PROJECT SHALL BE SCHEDULE 40 PIPE WITH SCREWED AND/OR WELDED FITTINGS. IF A HISTORY OF CORROSION IS KNOWN TO EXIST, SCHEDULE 10 PIPING MAY BE USED.
- 6. THREADABLE THINWALL, ENGINEERED PIPE SIZING, IE DYNATHREAD/DYNAFLOW, AND CPVC MAY NOT BE USED.
- 7. ISSUE. ALL MATERIALS SHALL BE APPROVED BY UL AND BE IN CONFORMANCE WITH SPECIFICATIONS, CURRENT EDITION OF NFPA-13 AS WELL AS THE AUTHORITY HAVING JURISDICTION. SYSTEM PIPING WILL BE SUPPORTED AND BRACED WITH HANGERS AND LISTED EARTHQUAKE BRACE 8.
- ASSEMBLIES IN ACCORDANCE PER NFPA-13. 9
- 10. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN THE INTEGRITY OF THE SPRINKLER SYSTEM DURING CONSTRUCTION.
- 11. ELEVATIONS AND DIMENSIONS SHOWN ON THESE DRAWINGS ARE NOMINAL 12. THE VERTICAL DISTANCE BETWEEN THE SPRINKLER DEFLECTOR AND THE CEILINGS AND/OR ROOF
- DECK SHALL BE A 1" MIN AND 12" MAX PER NFPA 13. 13. THE SMALL-ROOM RULE MAY BE USED IN ROOMS UNDER 800 SQUARE FEET. THIS RULE ALLOWS THAT SPRINKLERS TO BE SPACED UP TO 9' FROM ONE WALL, UP TO 225sq ft PER SPRINKLER, PROVIDED
- THERE IS AN 8" LINTEL AT THE DOORS/OPENINGS.
- 14. WATER VELOCITIES SHALL NOT EXCEED 20-FPS.
- 15. SPRINKLER AREAS WILL BE LIMITED IN ACCORDANCE WITH NFPA 13. 16. ALL PIPE UP TO 4" SHALL HAVE AN ANTIBACTERIAL PROTECTIVE COATING EQUIVALENT TO ALLIED TUBE AND CONDUIT M-COTE, AND BE SHOWN TO NOT BE INCOMPATIBLE WITH CPVS. CONTRACTOR TO VERIFY.
- 17. AUTOMATIC SPRINKLER SYSTEMS SHALL BE SUPERVISED AND INTERFACE WITH NEW FIRE ALARM SYSTEM.
- 18. THE CONTRACTOR SHALL PROVIDE THE INSPECTOR WITH COPY OF: THE "CONTRACTOR'S MATERIAL & TEST CERTIFICATE FOR ABOVEGROUND PIPING" IN ACCORDANCE WITH NFPA 13; AND THE "RECORD OF COMPLETION" FOR FIRE ALARM SYSTEMS IN ACCORDANCE WITH NFPA 72. THESE DOCUMENTS SHALL BE PRESENTED UPON SUCCESSFUL COMPLETION ON THE SYSTEM TEST AND PRIOR TO ACCEPTANCE OF THE SYSTEM.
- 19. ONE SET OF STAMPED, APPROVED DRAWINGS SHALL BE ON SITE AT ALL TIMES AND MADE AVAILABLE TO INSPECTORS ON DEMAND.
- 20. FIRE DEPARTMENT VEHICLE ACCESS ROADWAYS SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION. REQUIRED WATER FLOW SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION AND PRIOR TO ANY COMBUSTIBLES BEING BROUGHT ON SITE.
- 21. FIRE PROTECTION SYSTEMS SHALL BE INSTALLED BY A CONTRACTOR LICENSED TO PERFORM SUCH WORK IN THE PROJECT JURISDICTION.

FLOW DATA

STATIC PRESSURE: 75.00 psi

RESIDUAL PRESSURE: 60.00 psi

OMATIC FIRE SPRINKLER SYSTEM TO FULLY SHOWN THESE DRAWINGS IS BASED ON

FIRE SPRINKLER SYSTEM SHOP DRAWINGS AND SUBMIT FOR APPROVAL PRIOR TO

HOWEVER FINAL LAYOUT SHALL BE IN ER'S RECOMMENDATIONS, AND EQUIPMENT NE AND SPRINKLER HEAD LOCATIONS WITH AIR DEVICES, PLUMBING AND OTHER TRADES

IN ACCORDANCE WITH NFPA 13 AND

ON PLANS, DATA CUT-SHEETS, AND AND APPROVAL PRIOR TO BEGINNING ANY

DRANT TEST FOR THIS PROJECT BASED ON SIGN THE SPRINKLER SYSTEM. THE HYDRANT ED ON THE SHOP DRAWINGS. AUTOMATIC FECT THIS ENTIRE FACILITY. A MINIMUM 10% WATER SUPPLY AND THE SPRINKLER

END OF BRANCH LINE AND SEISMIC BRACING IENTS . MINIMUM Cp TO BE DETERMINED DATA FOR SITE SPECIFIC SHORT PERIOD

NOT FOR CONSTRUCTION, THEY ARE FOR

NDICATED IN NFPA 170 TO DEVELOP THE AS-

PARTMENT CONNECTIONS SHALL BE

NCE WITH NFPA 13. PPROVED BY A/E FOR ARRANGEMENT, APPROPRIATENESS OF THE MEANS OF ALE, ETC,) THAT WILL HANDLE THE FULL FLOW AND WITH DAMAGE TO LANDSCAPING OR

THAN 1/2" ORIFICE AND BE LOCATED ON THE

ED @ 200 PSI FOR TWO HOURS OR AT 50 PSI STEM, WHICHEVER IS GREATER. N INDICATING ITS FUNCTION. ALL VALVE

ISISTING OF A REPRESENTATIVE MIX OF EACH WITH A WRENCH AND BE LOCATED NEAR THE HERE THE SPRINKLERS WILL NOT BE

CE K-5.6 QUICK RESPONSE. PENDENT S OF THE CEILING TILES. CONCEALED

ALL MATERIALS USED IN THE INSTALLATION OF THIS SYSTEM(S) SHALL BE NEW AND OF CURRENT

PAINTING OF THE SYSTEM PIPING AND COMPONENTS SHALL BE DONE PER A/E SPECIFICATIONS.

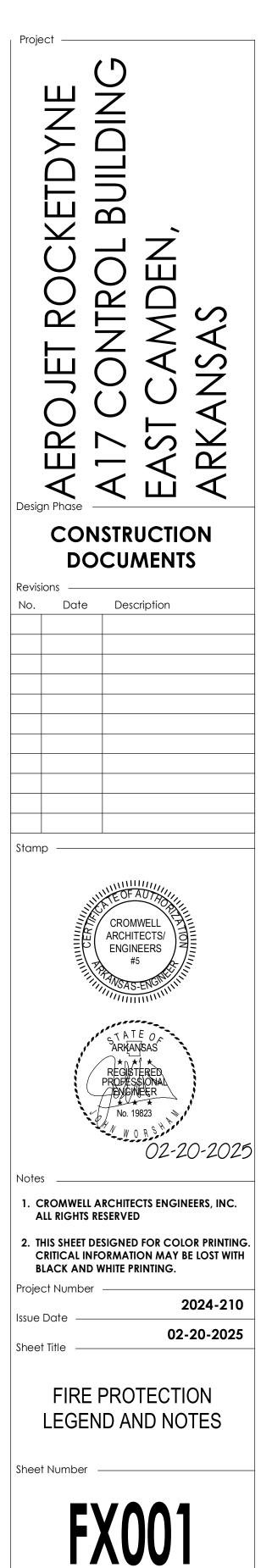
DATE OF TESTING: 01-23-2025

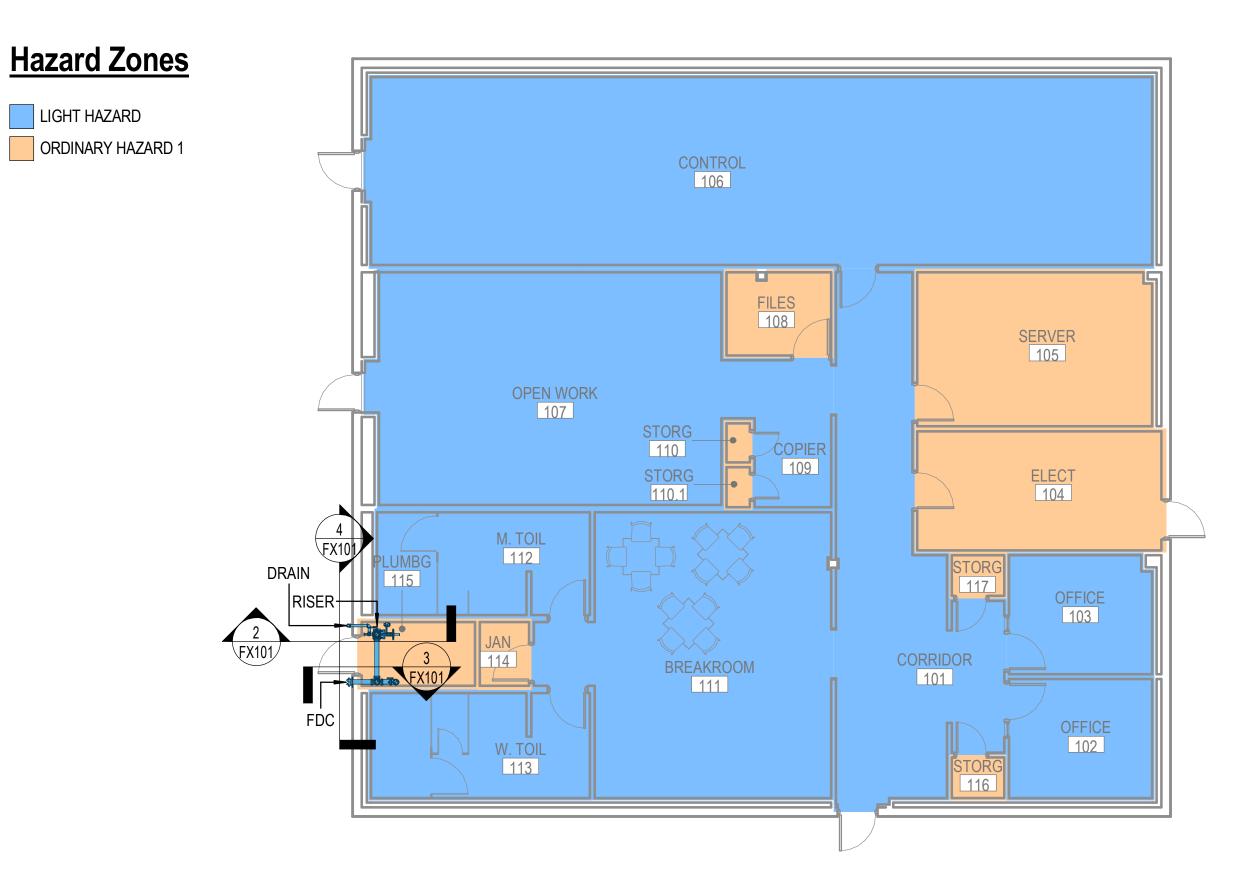
FLOW: 1,300 GPM

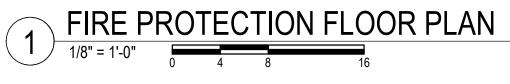
CROMWELL

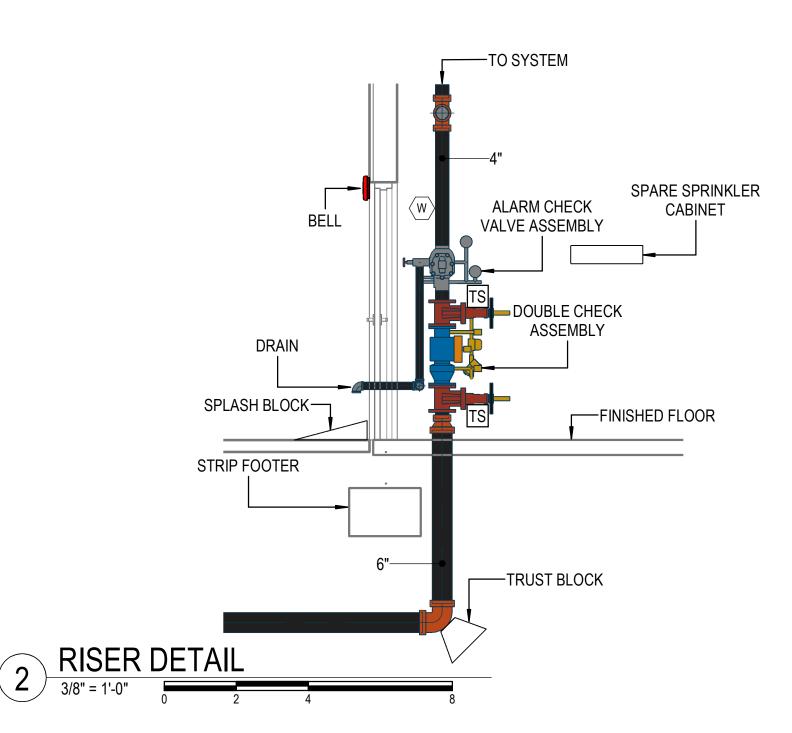
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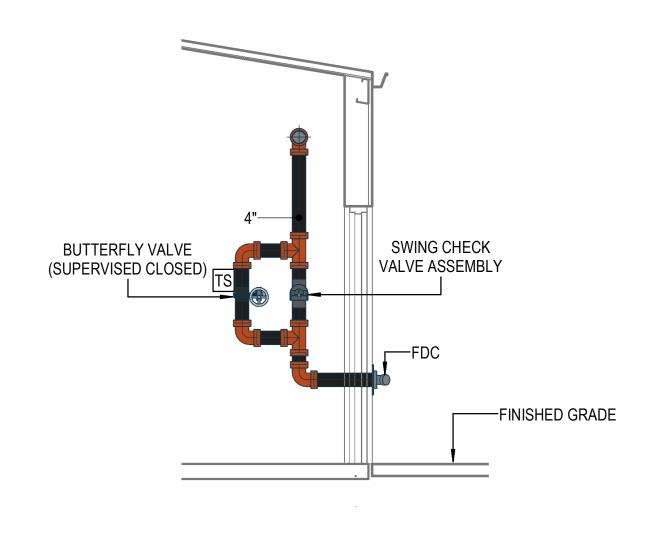
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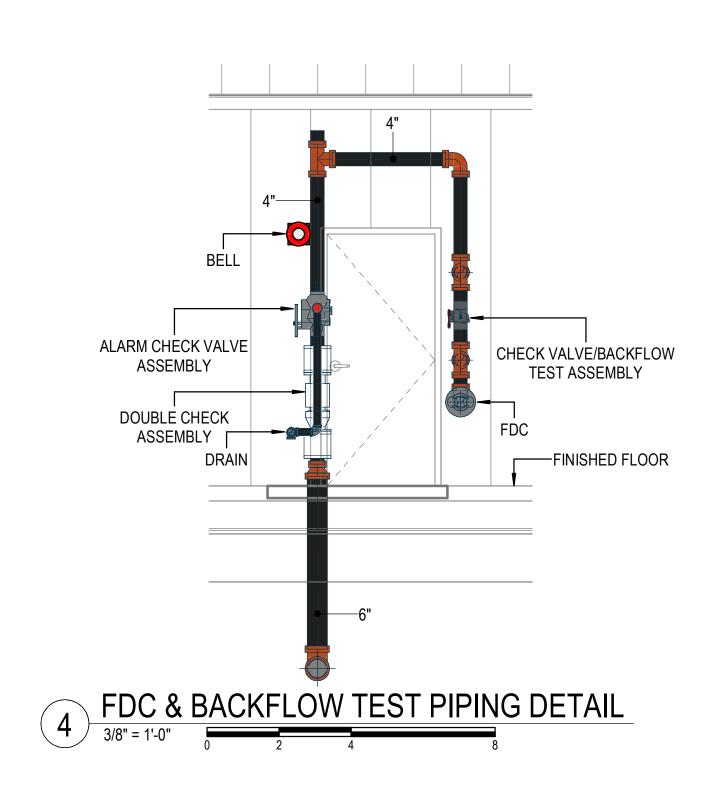






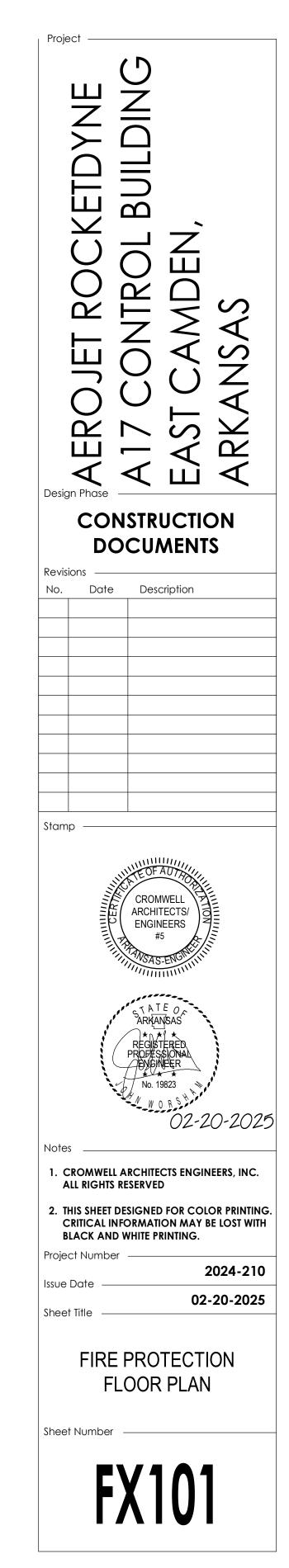


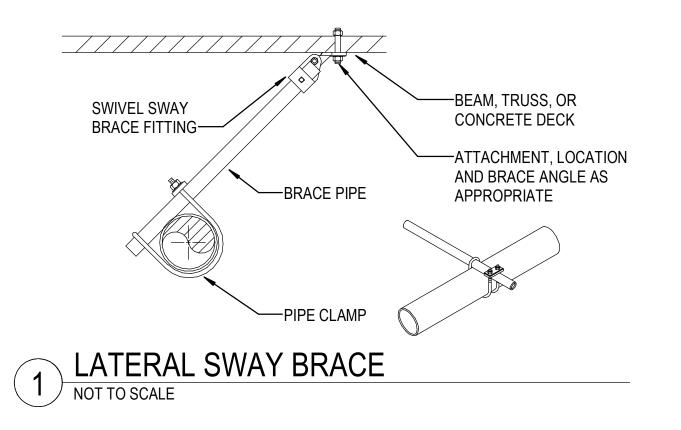


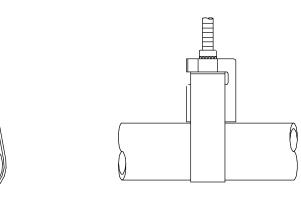










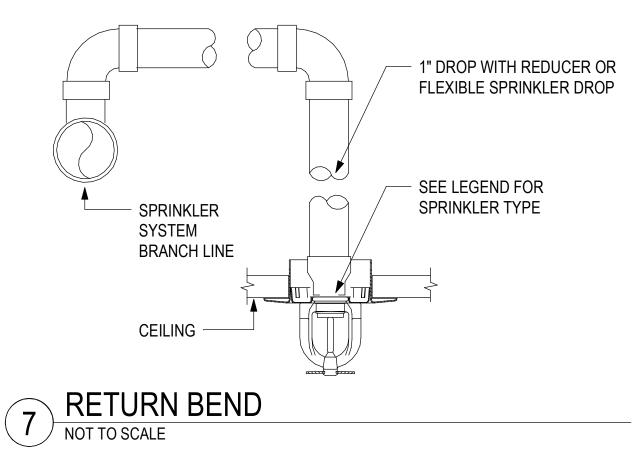


NOTE: SURGE RESTRAINERS ARE TO BE USED ONLY WITH BAND HANGERS TO RESTRAIN THE UPWARD MOVEMENT OF PIPE AS IT OCCURS DURING SPRINKLER HEAD ACTIVATION OR SEISMIC ACTIVITY. INSTALL AT ENDS OF LINES AND AT 30' INTERVALS ON BRANCH LINES.



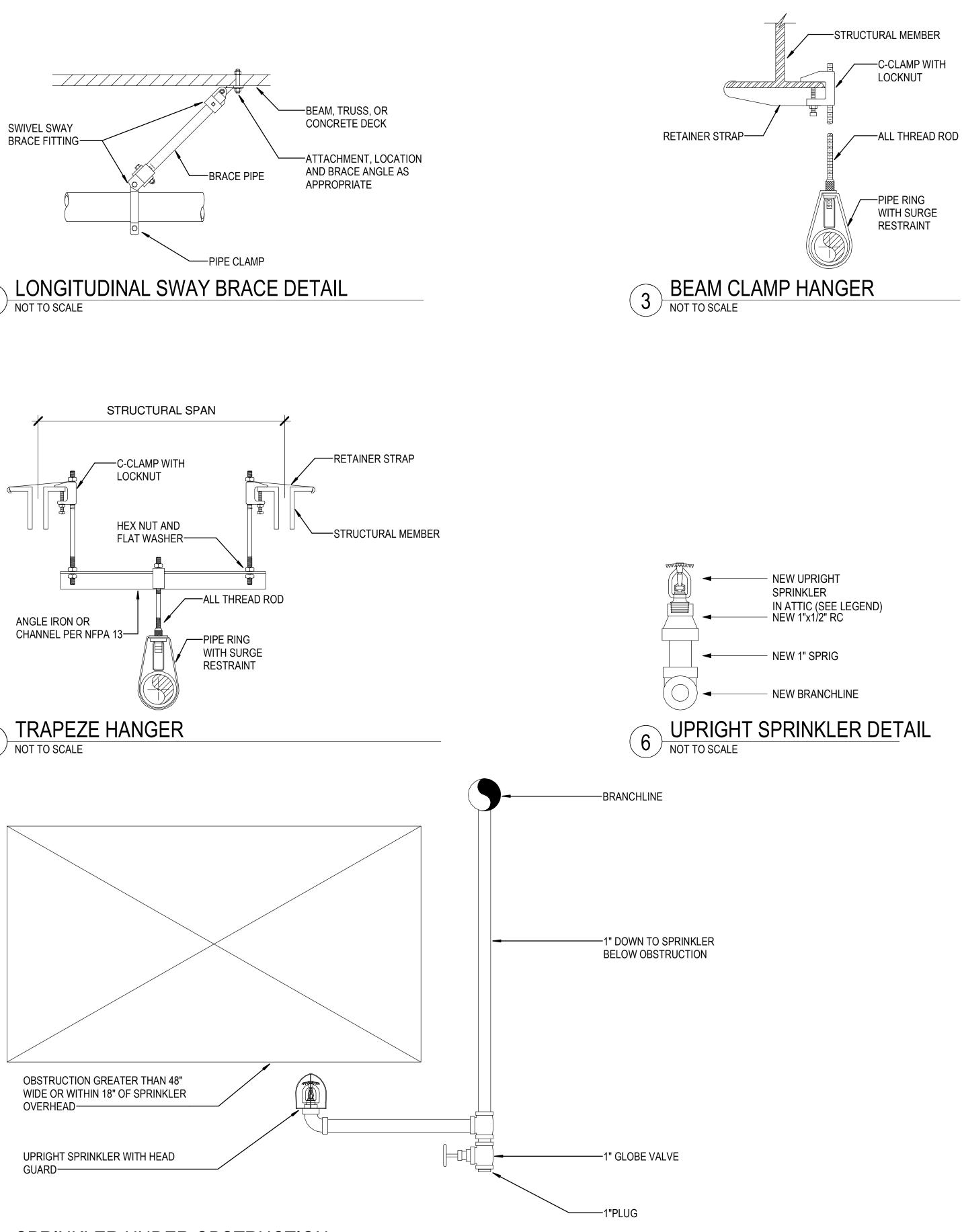
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8 SPRINKLER UNDER OBSTRUCTION NOT TO SCALE

CROMWELL 1300 East 6th StreetLittle Rock, AR 72202501.372.2900cromwell.com

| Project Proceeding of the second seco |
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| CONSTRUCTION DOCUMENTS |
| Revisions No. Date Description |
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| Stamp |
| Notes 1. CROMWELL ARCHITECTS ENGINEERS, INC. ALL RIGHTS RESERVED 2. THIS SHEET DESIGNED FOR COLOR PRINTING. CRITICAL INFORMATION MAY BE LOST WITH BLACK AND WHITE PRINTING. |
| Project Number |
| 02-20-2025 Sheet Title |
| FIRE PROTECTION DETAILS |
| Sheet Number |

| AC ACU | | IATIONS | | PIPING LEGEND |
|--|---|---|---|--|
| | AIR COMPRESSOR AIR CONDITIONING UNIT | HS HT | HOSE STATION HEIGHT | |
| AD | AREA DRAIN | HTG | HEATING | |
| AFC | ABOVE FINISH CEILING | HVAC | HEATING, VENTILATION, AIR COND. | CW DOMEST |
| AFF AFG | ABOVE FINISH FLOOR ABOVE FINISHED GRADE | HW HWG | HOT WATER HOT WATER GENERATOR | HW HOT WA |
| AFG | AUTHORITY HAVING JURISDICTION | HWR | HOT WATER GENERATOR | HWR HOT WA |
| APPROX | APPROXIMATE | HWST | HOT WATER STORAGE TANK | SS SANITAR |
| ARCH ARD | ARCHITECT/ARCHITECTURAL AUXILIARY ROOF DRAIN | ID KW | INSIDE DIAMETER/DIMENSION | V SANITAR |
| BFF | BELOW FINISH FLOOR | LAV | KILOWATTS LAVATORY | |
| BLDG | BUILDING | LF | LINEAR FEET | PRESSURE PIPE SYMBOLS |
| BTU | BRITISH THERMAL UNITS | LPG | | |
| BTUH CAP | BRITISH THERMAL UNITS/HOUR CAPACITY | LWT MAX | LEAVING WATER TEMPERATURE MAXIMUM | PIPE DROP |
| CB | CATCH BASIN | MBH | THOUSAND BTU/PER HOUR | |
| CD | CONDENSATE DRAIN | MDL | MODEL | PIPE CAP |
| CFH CFM | CUBIC FEET/HOUR CUBIC FEET/MINUTE | MECH MFR | MECHANICAL MANUFACTURER | PIPE RISE |
| CI | CAST IRON | MH | MANHOLE | <u>GRAVITY PIPE SYMBOLS</u> |
| CLG | CEILING | MIN | MINIMUM | |
| CO COL | CLEAN OUT COLUMN | MISC MTD | MISCELLANEOUS MOUNTED | |
| CONC | CONCRETE | NA | NOT APPLICABLE | PIPE WYE 8 |
| CONN | CONNECT | NFPA | NATIONAL FIRE PROTECTION ASSO. | PIPE TEE |
| CONST CONT | CONSTRUCTION CONTINUE | NTS OA | NOT TO SCALE OUTSIDE AIR | PIPE DROP |
| COTG | CLEAN OUT TO GRADE | OD | OUTSIDE DIAMETER/DIMENSION | |
| CP | CIRCULATING PUMP | PD | PRESSURE DROP | PIPE PLUG |
| CR | CONDENSATE RETURN | PLBG | PLUMBING | |
| CW DCOTG | COLD WATER DOUBLE CLEANOUT TO GRADE | PRESS PRV | PRESSURE PRESSURE REDUCING VALVE | |
| DD | DESICCANT DEHUMIDIFIER | PSI | POUNDS PER SQUARE INCH | PLUMBING TAGS |
| DEG(°) | DEGREE | RA | RETURN AIR | PIPE TAG |
| DEMO DF | DEMOLITION DRINKING FOUNTAIN | RD REF | ROOF DRAIN REFERENCE | APPROX. |
| DIA | DIAMETER | REQD | REQUIRED | -INVERT: -3' - 5" |
| DS | DOWN SPOUT | REV | REVISION, REVISED | 6" SS (10 FU) SYSTEM A |
| DTL EFF | DETAIL EFFICIENT | RM RPM | ROOM REVOLUTIONS PER MINUTE | |
| ELEC | ELECTRICAL | SC | STEAM CONDENSATE | FIXTURE TAG |
| ELEV | ELEVATION | SCH | SCHEDULE | 4" FS-9 |
| EQ EQUIP | EQUAL EQUIPMENT | SECT SK | SECTION SINK | |
| EWH | ELECTRIC WATER HEATER | SP | STATIC PRESSURE | FS-9 FIXTURE ID |
| EWT | ENTERING WATER TEMPERATURE | SPEC | SPECIFICATION(S) | |
| EX, EXT | EXISTING | SS | SANITARY SEWER | HYD-2 3 CWFU |
| EXP FCO | EXPANSION FLOOR CLEANOUT | ST STL | STEAM STEEL | |
| FD | FLOOR DRAIN | SUCT | SUCTION | WSB-1 3 WFU |
| FL | FLOW LINE | TDH | TOTAL DYNAMIC HEAD | |
| FLEX FLR | FLEXIBLE CONNECTION FLOOR | TEMP TH | TEMPERATURE TOTAL HEAD | |
| FPM | FEET PER MINUTE | TMV | THERMOSTATIC MIXING VALVE | |
| FPRH | FREEZE PROOF ROOF HYDRANT | TWMV | THREE WAY MODULATING VALVE | |
| FPWH FS | FREEZE PROOF WALL HYDRANT FLOOR SINK | TYP UL | TYPICAL UNDERWRITERS LABORATORY | PLUMBING PHASING |
| | GAS | UR | URINAL | |
| G | | V | VENT | NEW CONSTRUCTION PLUMBING EC |
| GA | GAUGE | | VELOCITY | |
| GA GAL | GALLON | VEL | | EWH-1 |
| GA GAL GALV | GALLON GALVANIZED | VERT | VERTICAL | EWH-1 |
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STING PIPE TAG **NOLISHED PIPE TAG**

MESTIC COLD WATER WATER 120°F WATER 120°F CIRC. ITARY SEWER ITARY VENT

ROP BOW

YE 8TH TEE

SUD ROSS

ROX. INVERT ELEVATION SYSTEM, FU FLOW EM ABBREVIATION

SZE AND FIXTURE

E IDENTITY

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G EQUIPMENT/ FIXTURES NSTRUCTION)

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MORE INFO.

FOR THE PLUMBING

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TO BE APPLIED TO ALL ABBREVIATIONS SHOWN D IN THE CONTAINED

PLUMBING GENERAL NOTES

- 1 ALL PLUMBING SYSTEMS SHALL BE INSTALLED AS PER SPECIFICATIONS AND GOVERNING CODES
- 2 ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRIC RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, FITTING OR COMPONENT. CONTRACTOR SHALL NOT SCALE DRAWINGS. INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS, AND VICE-VERSA, SHALL BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH. THE CONTRACTOR SHALL SUBMIT A REQUEST FOR INFORMATION (RFI) IF INFORMATION CONFLICTS. DRAWINGS SPECIFIC TO THIS DISCIPLINE DO NOT LIMIT THE RESPONSIBILITY OF WORK REQUIRED BY CONTRACT DOCUMENTS. REFER TO ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND OTHER DRAWINGS FOR COMPLETE INFORMATION
- 3 BY NECESSITY, THESE DRAWINGS REFLECT A SYSTEM DESIGNED AROUND SPECIFIC REFERENCE PRODUCTS, THE SELECTION OF WHICH HAS IMPACTED THE DESIGNS OF OTHER TRADES (HVAC, ELECTRICAL, STRUCTURAL, ETC.). IF ALTERNATE MANUFACTURERS, FUEL SOURCES, SIZES, OR MODEL NUMBERS ARE SUBMITTED OR BID, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS TO COORDINATE ALL DIFFERENCES PRIOR TO BID. NO EXTRAS WILL BE ALLOWED FOR CHANGES REQUIRED TO OTHER TRADES IF ALTERNATE EQUIPMENT IS BID OR INSTALLED AT THE CONTRACTORS OPTION.
- 4 EXCEPT WHERE MODIFIED BY SPECIFIC NOTATION TO THE CONTRARY, IT SHALL BE UNDERSTOOD THAT THE INDICATION AND/OR DESCRIPTION OF ANY ITEM, IN THE DRAWINGS OR SPECIFICATIONS OR BOTH, CARRIES WITH IT THE INSTRUCTION TO FURNISH AND INSTALL THE ITEM, REGARDLESS OF WHETHER OR NOT THIS INSTRUCTION IS EXPLICITLY STATED AS PART OF THE INDICATION OR DESCRIPTION.
- 5 CONTRACTOR SHALL PAY ALL UTILITY FEES & CHARGES AS PART OF BASE BID IN THE CONTRACT.
- 6 THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH THAT OF OTHER TRADES: i.e., ARCHITECTURAL, HVAC, ELECTRICAL, STRUCTURAL, FIRE PROTECTION AND CIVIL PRIOR TO CONSTRUCTION.
- 7 THE CONTRACTOR SHALL COORDINATE UTILITY LOCATIONS, SIZES AND INVERT ELEVATIONS PRIOR TO CONSTRUCTION; i.e., SANITARY SEWER, FIRE PROTECTION, DOMESTIC WATER, ALL SERVICES SHALL TERMINATE 5 FEET OUTSIDE THE BUILDING, EXCEPT WHERE SHOWN OTHERWISE. SEE SITE UTILITY DRAWINGS FOR CONTINUATION OF ALL SERVICE LINES.
- 8 PROVIDE ISOLATION VALVES AT EACH FIXTURE GROUP OR BATTERY OF FIXTURES IN THE DOMESTIC CW, HW, HWR PIPING. VALVES SHALL BE EASILY ACCESSIBLE. WHERE HARD CEILINGS ARE LOCATED, VALVES SHALL BE ACCESSED THROUGH ACCESS PANELS. ACCESS PANELS SHALL BE COORDINATED WITH ARCHITECT PRIOR TO CONSTRUCTION.
- 9 PROVIDE STOP VALVES AT ALL PLUMBING FIXTURES ON BOTH HOT AND COLD WATER SUPPLY LINES. VALVES. ESCUTCHEONS, FITTINGS, ETC., SHALL BE CHROME PLATED AND INSTALLED TIGHT TO WALL. WHERE PIPING IS EXPOSED, CHROME PLATED PIPE SHALL BE USED.
- 10 ALL EXPOSED OR ACCESSIBLE P-TRAPS SHALL BE CHROME PLATED AND PROVIDED WITH BOTTOM CLEANOUT PLUGS.
- 11 SLOPE 2-1/2" AND SMALLER DRAIN WASTE AND VENT (DWV) LINES AT MIN, (2%) 1/4" FALL PER FT., 3" TO 6" DWV LINES AT MIN. (1%) 1/8" FALL PER FT. SANITARY SEWER AND WATER SHALL BE A MINIMUM OF 10' APART OR THE DOMESTIC WATER SERVICE SHALL BE 12" ABOVE THE TOP OF THE SEWER LINE, AT ITS HIGHEST POINT, IF PLACED IN SAME TRENCH
- 12 PROVIDE ALL FITTINGS, TRANSITIONS, COUPLINGS, ADAPTERS, UNIONS, AND OTHER ACCESSORIES NEEDED TO COMPLETE CONNECTIONS AND PROPER OPERATIONS OF PLUMBING FIXTURES AND PLUMBING EQUIPMENT.
- 13 REFER TO SPECIFICATIONS FOR ACCEPTABLE MANUFACTURERS OF PLUMBING FIXTURES AND EQUIPMENT, AND PROPER APPLICATIONS OF SAME.
- 14 PROVIDE CLEANOUTS IN ALL SEWERS, WHETHER SHOWN OR NOT, AT INTERVALS NOT TO EXCEED 50 FEET, AT EACH CHANGE OF DIRECTION GREATER THAN 45°, AND ALL VERTICAL STACKS AT A HEIGHT OF 30" ABOVE FINISH FLOOR AT THE BASE OF EACH STACK.
- 15 WHERE WATER PRESSURES EXCEED 80 PSI, PROVIDE WATER PRESSURE REDUCING VALVES (PRV) CONFORMING TO ASSE 1003 WITH STRAINER IN WATER SUPPLY LINES, SETTING AT 80 PSI. SEE CODE AND MANUFACTURER INFORMATION FOR ACCEPTABLE PRESSURE REQUIREMENTS.
- 16 ALL PIPING PENETRATIONS OF THE RATED CEILING AND WALL MUST BE MADE WITH METAL PIPE OR UL LISTED APPROVED DEVICES. FIRE STOP ALL PIPE PENETRATIONS THRU RATED WALLS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS, RATINGS AND FIRE STOPPING DETAILS.
- 17 DO NOT ROUTE ANY PIPING OVER ELEC. ROOMS, COMPUTER ROOMS, OR ELEC. PANELS.
- 18 ALL DOMESTIC WATER PIPING ROUTED IN AREAS SUBJECT TO FREEZING TEMPERATURES SHALL BE ROUTED BELOW INSULATION AND WITHIN THE HEATED ENVELOPE OF THE BUILDING. WHERE PIPING CAN NOT BE ROUTED BELOW INSULATION, PIPING SHALL HAVE 5 WATT/FT HEAT TRACING ATTACHED. SEE ARCHITECTURAL DRAWINGS FOR INSULATION PLACEMENT AND DETAILS. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR AND ENGINEER.
- 19 UNLESS OTHERWISE INDICATED, DO NOT ROUTE WATER PIPING IN EXTERIOR WALLS. WHEN ROUTED IN EXTERIOR WALLS, CAREFULLY POSITION WATER PIPING ON THE HEATED SIDE (INTERIOR SIDE) OF THE WALL INSULATION.
- 20 MAINTAIN 10'-0" MINIMUM CLEARANCE BETWEEN FRESH AIR INTAKES, OPERABLE WINDOWS AND FLUES, AND PLUMBING VENTS.
- 21 ALL SEWER & VENT PIPING SHALL BE RODDED AND CLEANED AT END OF CONSTRUCTION. ALL TRAPS SHALL BE CLEANED AND PRIMED AT END OF CONSTRUCTION.
- 22 ALL PIPE DROPS FROM CEILING PLENUM TO FLOOR SHALL BE MADE IN FURROUTS AT COLUMNS. IN WEB OF BEAMS AT COLUMNS OR IN WALLS. PIPING SHALL BE CONCEALED UNLESS APPROVED BY ARCHITECT.
- 23 PROVIDE WATER HAMMER ARRESTORS IN FIXTURE BRANCHES WHERE QUICK CLOSING VALVES ARE INSTALLED; i.e. FLUSH VALVES, ICE MAKERS, DISHWASHERS, ETC.
- 24 BELOW SLAB WATER PIPE TO BE TYPE K SOFT DRAWN COPPER WITHOUT FITTINGS OR JOINTS. SLEEVE IN ENTIRETY WITH POLYETHYLENE SLEEVE. WRAP IN 1/2" FLEXIBLE CELLULAR INSULATION WHERE PIPING UNAVOIDABLY PASSES THROUGH CONCRETE FOUNDATIONS.
- 25 PROVIDE APPROVED BACKFLOW PREVENTION OR ANTI-SIPHON DEVICES AT ALL FIXTURES THAT COULD CONTAMINATE THE POTABLE WATER SYSTEM.
- 26 INSULATE ALL WATER PIPING (VERTICAL AND HORIZONTAL) ABOVE FINISH FLOOR. SEE SPECIFICATIONS FOR THICKNESS SCHEDULE.
- 27 INSULATE ALL EXPOSED HOT WATER & DRAIN PIPING FOR ACCESSIBLE FIXTURES PER ANSI A117.1 AND ADA REQUIREMENTS.
- 28 ALL EXPOSED MATERIALS WITHIN RETURN AIR PLENUMS (EXISTING AND NEW) SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 OR A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50, AS DETERMINED IN ACCORDANCE WITH ASTM E84 AND U.L. LISTINGS. IF ANY MATERIALS (EXISTING OR NEW) DO NOT MEET THESE STANDARDS, THE ITEMS SHALL BE ENCLOSED IN A GYPSUM-BOARD ENCLOSURE, BE REPLACED WITH PLENUM RATED MATERIALS (I.E. CAST IRON), OR BE WRAPPED WITH AN APPROVED FIRE RATING MATERIAL, SUCH AS 3M FYRE WRAP. PLASTIC PIPING (PVC, ABS, AND CPVC) IS NOT APPROVED TO BE INSTALLED WITHIN RETURN AIR PLENUMS. BY NECESSITY, WE HAVE NOTED AS MANY AREAS AS POSSIBLE ON THE PLANS WHERE THESE CONDITIONS OCCUR, BUT IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXISTING CONDITIONS (WHETHER SHOWN ON THE PLANS OR NOT) AND INCLUDE THE REPLACEMENT/WRAPPING OF THESE ITEMS IN THE BID PRICE (SEE NOTE 7 ABOVE). COORDINATE RETURN AIR PLENUM LOCATIONS AND ANY NOTED DISCREPANCIES FROM THE PLANS WITH MECHANICAL ENGINEER PRIOR TO BID.
- 29 FLOOR DRAINS IN MECHANICAL ROOMS ARE SHOWN FOR GENERAL LOCATION ONLY. FLOOR DRAINS SHALL BE ACCESSIBLE AND SHALL BE VERIFIED WITH EQUIPMENT LAYOUT FOR INTERFERENCES.
- 30 AN APPROVED TRAP SEAL DEVICE CONFORMING TO ASSE 1072 SHALL BE INSTALLED AT ALL FLOOR AND HUB DRAINS. ALL DRAINS SHALL HAVE DEEP SEAL TRAPS. 4" DEEP SEAL MINIMUM. INSTALL TRAP GUARD DEVICES PER MANUFACTURER'S INSTRUCTIONS.
- 31 DOMESTIC WATER SERVICE PIPING AND FITTINGS; E.G., CHECK VALVES, RPZA, SHUT-OFF VALVES, STRAINERS, PRESSURE REGULATORS, ETC. SHALL COMPLY WITH NSF 61 CRITERIA. ALL CAST IRON EQUIPMENT IS TO BE INTERNALLY EPOXY COATED.

LAVATORIES: LAVATORIES SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO MORE THAN 34" ABOVE FINISHED FLOOR. PROVIDE A CLEARANCE OF AT LEAST 29" ABOVE FINISHED FLOOR TO THE BOTTOM OF THE APRON. KNEE SPACE SHALL BE 8" FROM THE BOTTOM EDGE OF APRON TO THE LEADING EDGE OF THE BOTTOM OF BOWL. THE BOTTOM OF THE BOWL SHALL BE A MINIMUM OF 27" ABOVE FINISHED FLOOR. ALL WATER AND DRAIN PIPING UNDER LAVATORIES SHALL BE INSULATED WITH FOAM INSERT, COVERED WITH A 1/8" VINYL OUTER SHELL. ANGLE STOPS SHALL HAVE A FLIP TOP ACCESS

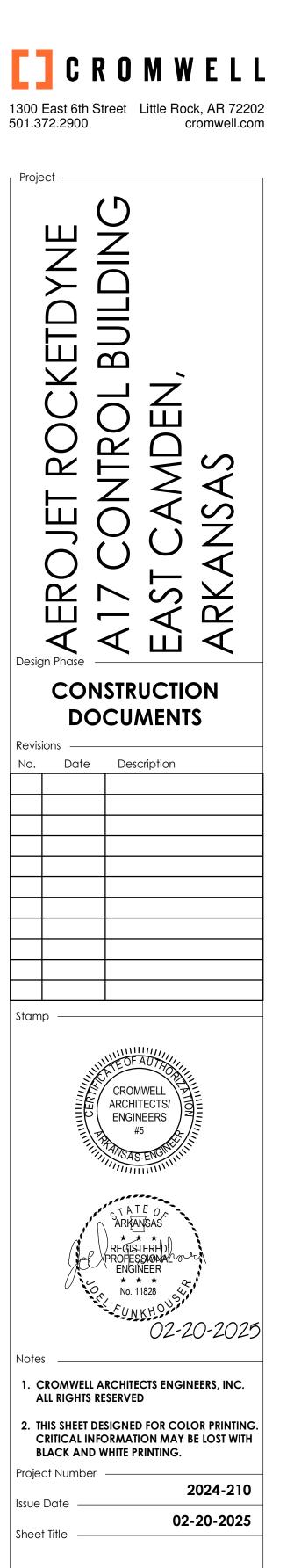
FAUCET CONTROLS: CONTROLS SHALL BE LEVER HANDLES OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 lbf.

SINKS: SINKS SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO MORE THAN 34" ABOVE FINISHED FLOOR. PROVIDE A CLEARANCE OF AT LEAST 27" HIGH, 30" WIDE, AND 19" DEEP. SINKS SHALL BE A MAXIMUM OF 6-1/2" DEEP. ALL WATER AND DRAIN PIPING UNDER SINKS SHALL BE PROVIDED WITH INSULATING FOAM INSERT, COVERED WITH A 1/8" VINYL OUTER SHELL. ANGLE STOPS SHALL HAVE A FLIP TOP ACCESS.

ADA REQUIREMENTS

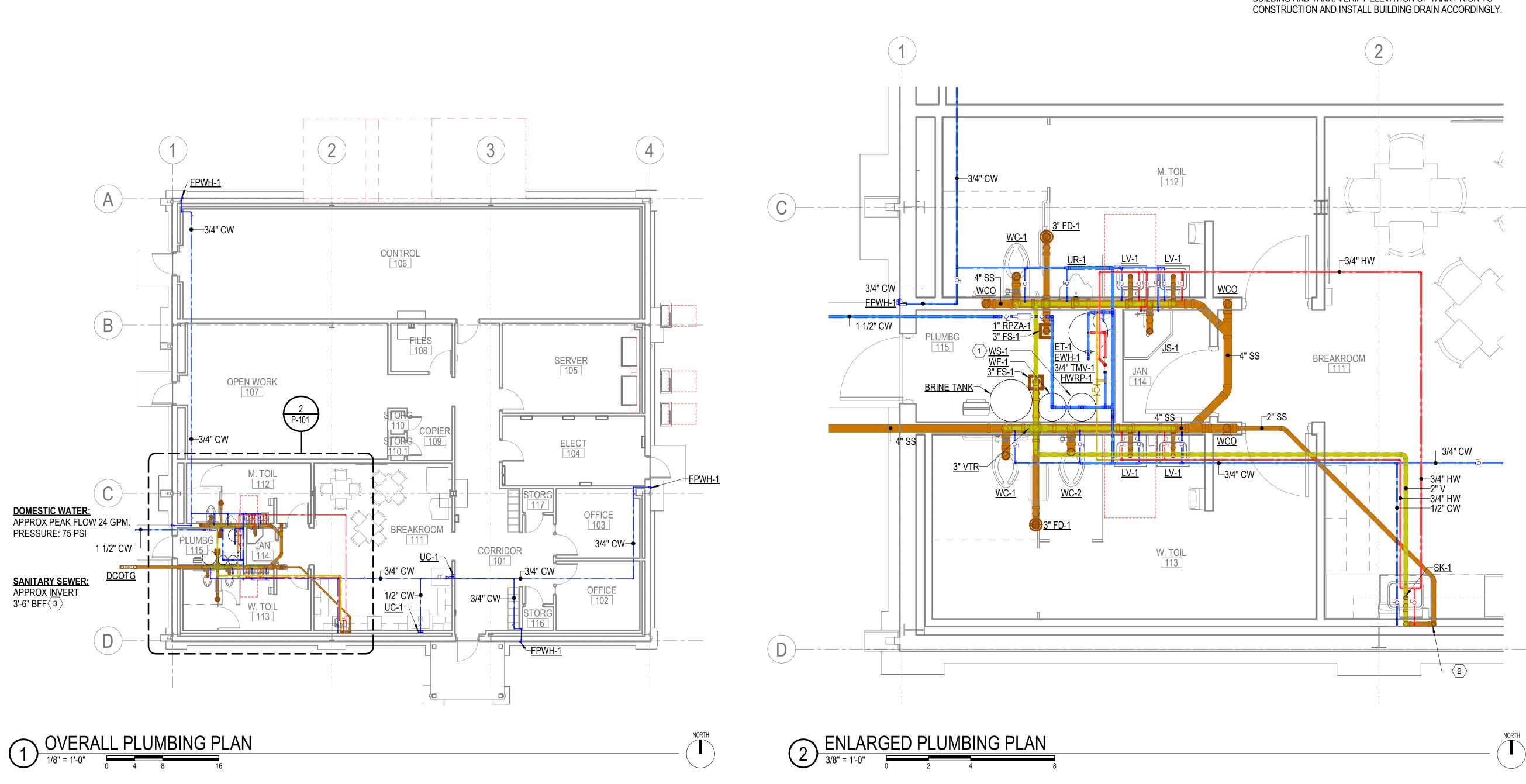
WATER CLOSETS: THE HEIGHT OF WATER CLOSETS SHALL BE 17"-19" MEASURED FROM THE TOP OF THE TOILET SEAT. SEATS SHALL NOT BE SPRUNG OR RETURN TO A LIFTED POSITION. THE WATER CLOSET SHALL BE LOCATED 18" FROM THE SIDE WALL TO THE CENTER OF THE BOWL. HAND OPERATED FLUSH CONTROLS SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREAS NO MORE THAN 29" ABOVE FINISHED FLOOR. SEE ARCHITECTURAL SHEETS FOR GRAB BAR LOCATIONS.

URINALS: THE URINALS SHALL BE WALL HUNG WITH AN ELONGATED RIM AT A MAXIMUM OF 17" ABOVE FINISHED FLOOR. HAND OPERATED FLUSH CONTROLS SHALL BE MOUNTED NO MORE THAN 44" ABOVE FINISHED FLOOR.



PLUMBING LEGEND AND NOTES

Sheet Number



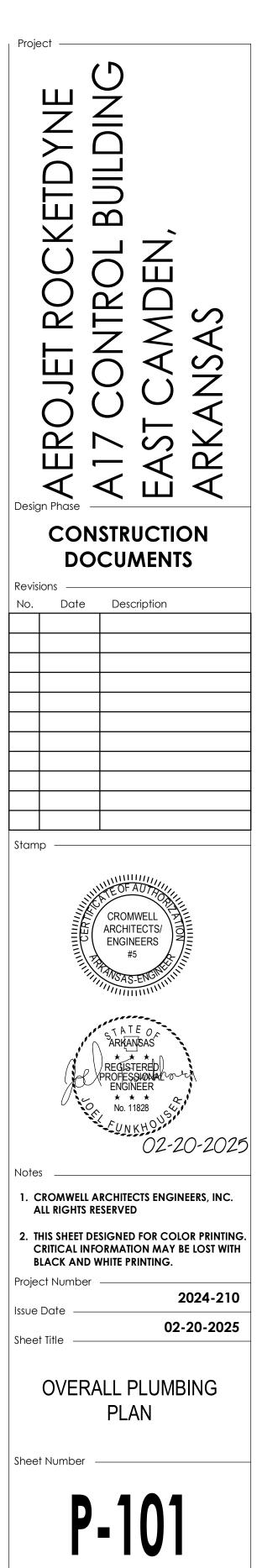


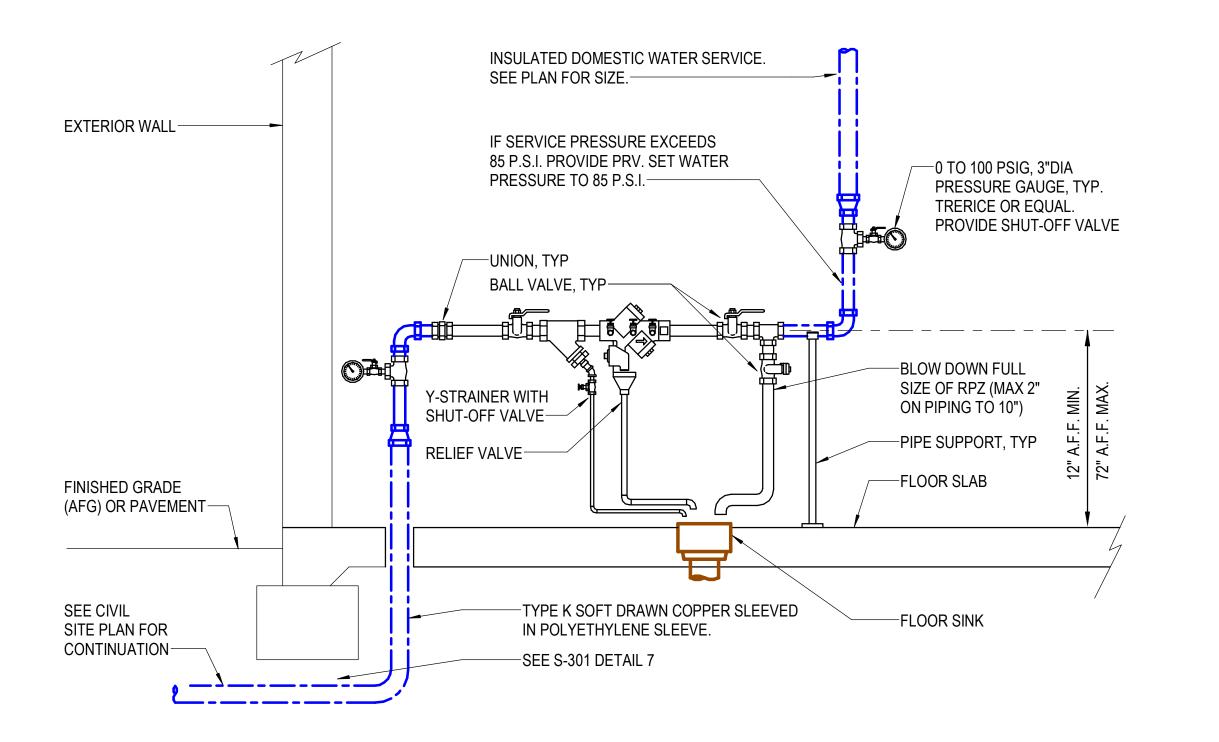
GENERAL NOTES

1 REFER TO SHEET P-001 FOR LEGEND AND NOTES.

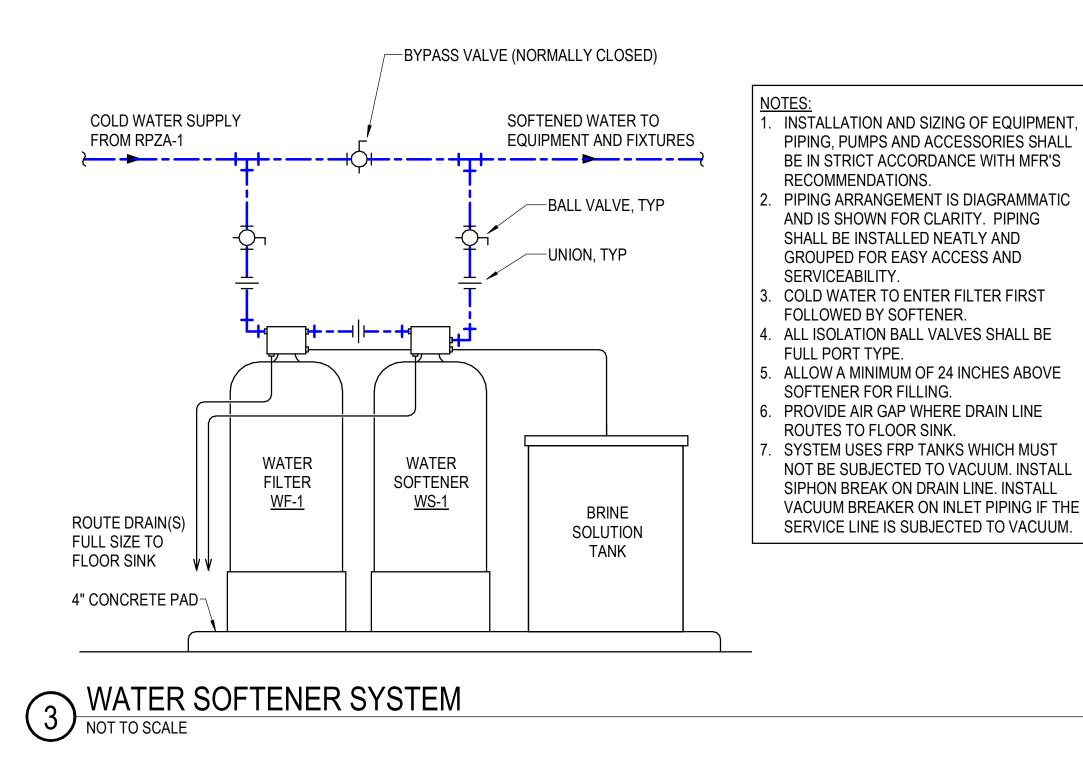
KEYED NOTES

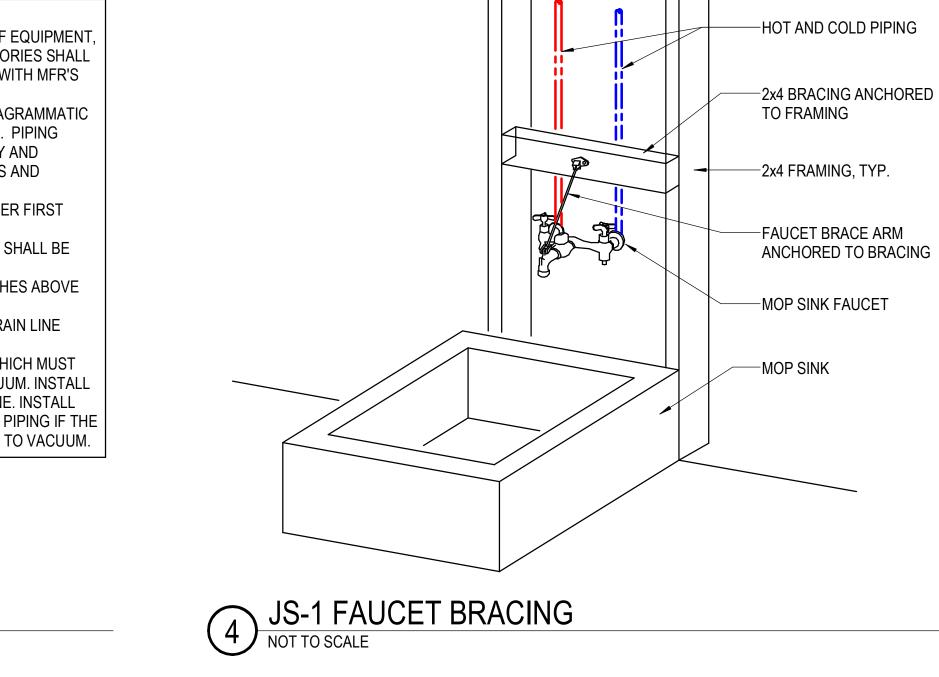
 DOMESTIC WATER FILTER AND SOFTENER SYSTEM. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. CONNECT IMMEDIATELY DOWNSTREAM OF RPZA-1. SEE P-501 DETAIL 3.
 ROUTE SANITARY PIPING TO SINK WHILE AVOIDING FOOTING IF POSSIBLE. IF NOT POSSIBLE, WRAP PIPE PIPE WITH 1/2" THICK FLEXIBLE UNICELLULAR INSULATION WHERE PIPE IS IN CONCRETE FOUNDATION.
 COORDINATE SANITARY INVERT WITH ELEVATION OF EXISTING SEPTIC TANK TO PROVIDE 1/8 INCH PER FOOT MINIUMUM SLOPE BETWEEN BUILDING AND TANK. VERIFY ELEVATION OF TANK PRIOR TO CONSTRUCTION AND INSTALL BUILDING DRAIN ACCORDINGLY.



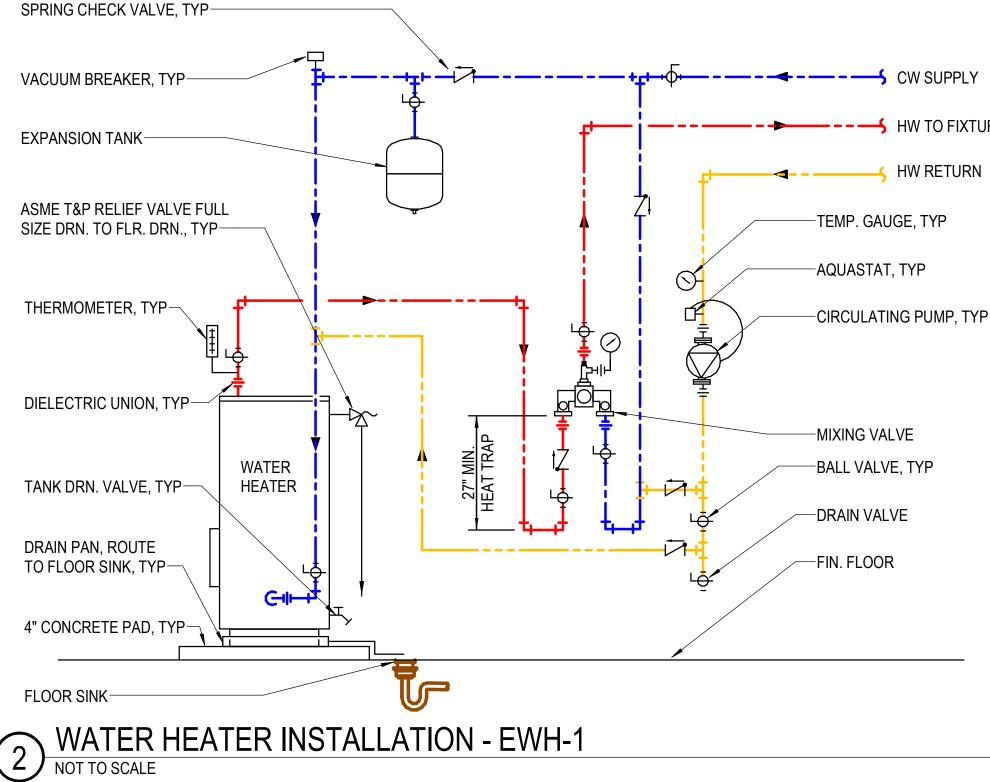








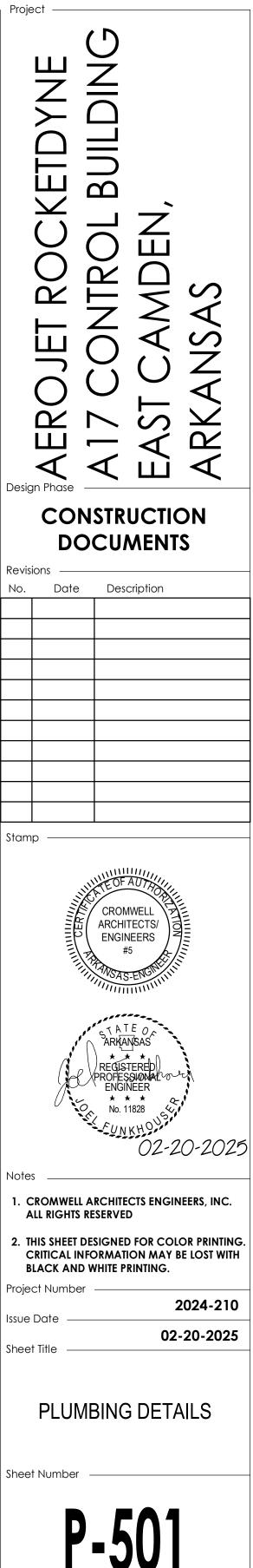
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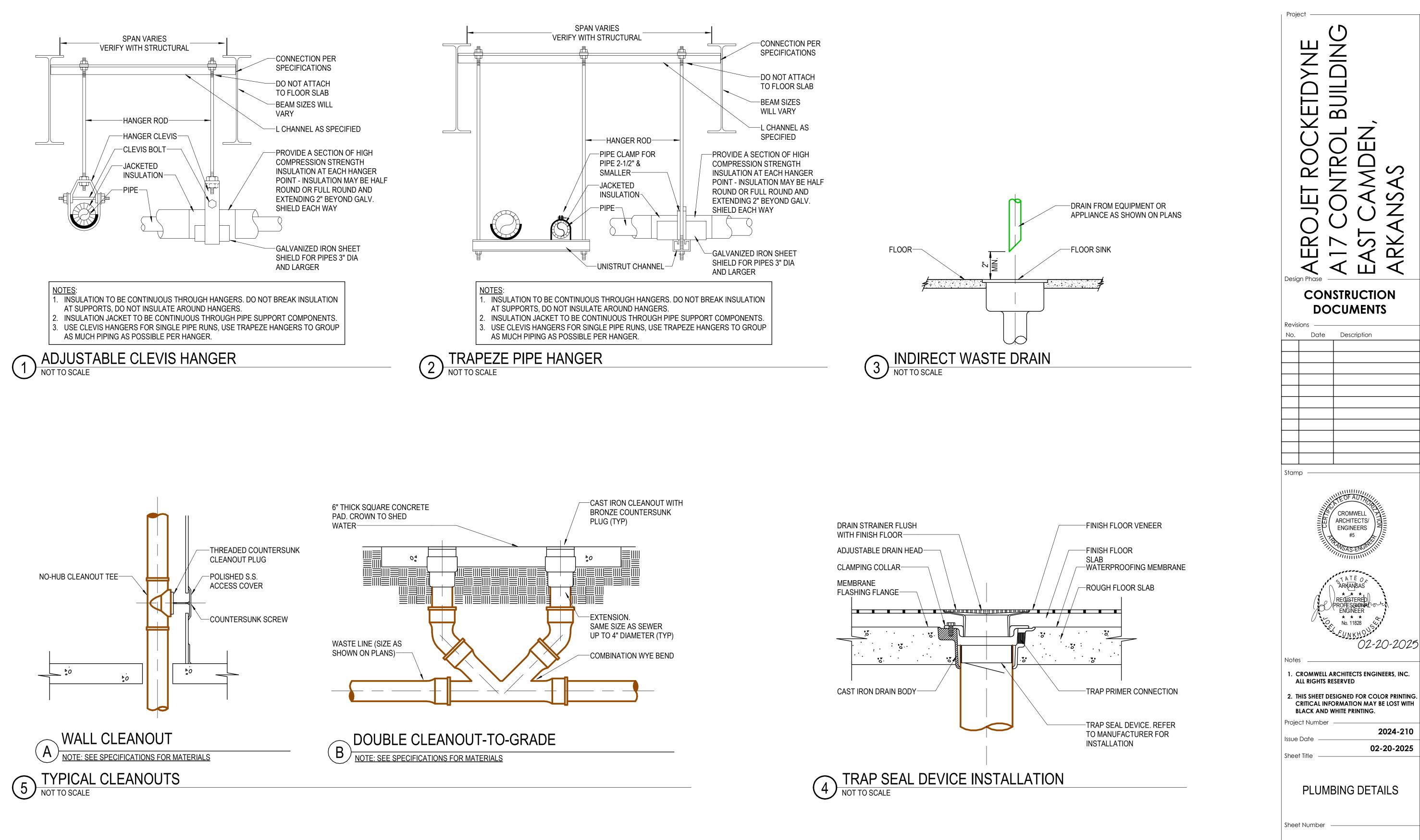


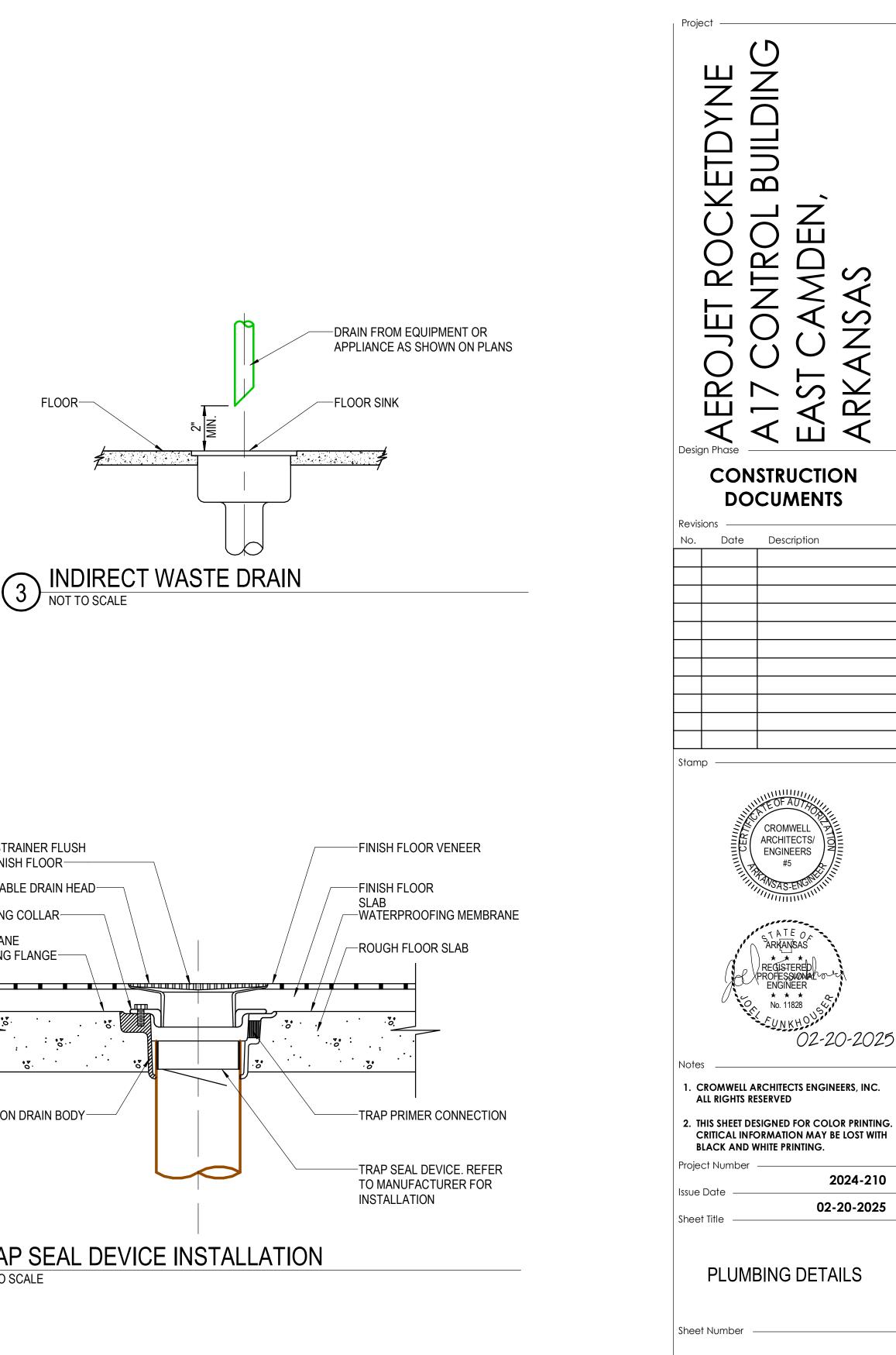
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| | NOTES: 1. INSTALLATION AND SIZING OF EQUIPMENT, PIPING, PUMPS AND ACCESSORIES SHALL BE IN STRICT ACCORDANCE WITH MFR'S | |
| IRES | RECOMMENDATIONS. 2. AT TANK OPENINGS, PROVIDE A SHORT NIPPLE OF SAME MATERIAL AS TANK OPENING. | |
| | PROVIDE ASME T&P RELIEF VALVE AS REQUIRED BY CODE. ALL EQUIPMENT RELIEF VALVES SHALL BE ROUTED FULL SIZE AS NOTED. | |
| | INSTALL SPRING CHECK VALVE IN GRAVITY CLOSED POSITION. MIXING VALVE TO BE PIPED IN STRICT | |
| D | ACCORDANCE WITH MFRS. INSTALLATION INSTRUCTIONS. MIXING VALVE AND CIRCULATING PUMP IS SPECIFIED AS PACKAGE UNIT. DETAIL SHOWS GENERIC HOT WATER | |
| | SYSTEM FOR GENERAL SYSTEM REQUIREMENTS. COORDINATE W/ MIXING VALVE MFR FOR INSTALLATION | |
| | REQUIREMENTS. 6. ALL ISOLATION BALL VALVES SHALL BE FULL PORT TYPE. 7. PIPING ARRANGEMENT IS DIAGRAMMATIC AND | |
| | IS SHOWN FOR CLARITY. PIPING SHALL BE INSTALLED NEATLY AND GROUPED FOR EASY ACCESS AND SERVICEABILITY. 8. PROVIDE SEISMIC SUPPORT AS REQUIRED BY | De |
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P-502

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| | BA | SIS OF DESIGN | |
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| ID | MANUFACTURER & MODEL | ACCESSORIES | |
| WC-1 | AMERICAN STANDARD #211AA.104 "CHAMPION PRO", | MCGUIRE SUPPLY STOP VALVES #LFBV2, AMERICAN STANDARD SEAT #5901.110 | WATER CLOSET - ADA COMPLIANT, 30-1/4"x SUSTAINING, LESS COVER |
| WC-2 | AMERICAN STANDARD #211CA.104 "CHAMPION PRO", | MCGUIRE SUPPLY STOP VALVES #LFBV2, AMERICAN STANDARD SEAT #5901.110 | WATER CLOSET - 30-1/4"x19"x29-3/8"H, 1.28 |
| UR-1 | AMERICAN STANDARD #6590.001 "WASHBROOK", SLOAN FLUSH VALVE #180-1.0 "ROYAL" | MCGUIRE SUPPLY STOP VALVES #LFBV2, WADE CARRIER #402 SERIES | URINAL - STANDARD HIEGHT, WALL MOUNT ADJUSTABLE FLOW RATE, REMOVABLE ANI |
| LV-1 | AMERICAN STANDARD #0355.012 "LUCERNE", CHICAGO FAUCET #420-T45E2805ABCP | MCGUIRE OFFSET P-TRAP KIT PW2150, MCGUIRE SUPPLY STOP VALVES #LFBV2-02, WADE CARRIER #530 SERIES | LAVATORY - ADA COMPLIANT, 18-1/4"x20-1/2 HOT/COLD SUPPLY ON 4" CENTERS, INTEGI |
| SK-1 | JUST MFG #SL-1815-A-GR, CHICAGO FAUCET #434-FC1ABCP | MCGUIRE BASKET STRAINER #151SAN, MCGUIRE P-TRAP #8912, MCGUIRE SUPPLY STOP VALVES #LFBV2-04, PROVIDE SUPPLY STOP VALVES FOR ALL ADJACENT PLUMBING ACCESSORIES | SINK - ADA COMPLIANT, 18"x15"x7-1/2"D, 1 C GPM, CHROME PLATED LEAD FREE, 8-1/4" S |
| JS-1 | STERN WILLIAMS #SBC-1500, T&S BRASS #B-0658 | STERN-WILLIAMS #T-35 RUBBER HOSE AND HANGER, STERN-WILLIAMS #T-40 MOP HANGER, (2) STERN-WILLIAMS #BP SPLASH PANELS | MOP SINK - 24" x 24" x 10", FLOOR MTD, COF COMPRESSION CARTRIDGES WITH SPRING |
| FPWH-1 | WOODFORD #67, | PROVIDE FULL PORT ISOLATION BALL VALVE FOR FIXTURE | FREEZEPROOF WALL HYDRANT - SIZE FOR PORT UNDER NOZZLE, 3/4" HOSE CONNECT |
| UC-1 | GUY GRAY #MIB1HAAB, | | UTILITY CONNECTION BOX - 7"x7"x2-1/2", WI LOW ON WALL IN ACCESSIBLE LOCATION |
| FD-1 | MIFAB #F1100-6-1-MG, | (-MG) MIFAB "MI-GARD" TRAP SEAL DEVICE | FLOOR DRAIN - 6"DIA STRAINER, LACQUERI STAINLESS STEEL ALLEN KEY SCREWS |
| FS-1 | MIFAB #FS1520-FL-150-MG, | (-MG) MIFAB "MI-GARD" TRAP SEAL DEVICE | FLOOR SINK - 8"x8"x6"D, ACID RESISTANT E ALUMINUM DOME BOTTOM STRAINER |

| ID | BASIS OF DESIGN | |
|--------|-----------------------------------|---|
| | MANUFACTURER & MODEL | |
| RPZA-1 | APOLLO VALVE #RPLF4A-218-A4F | REDUCED PRESSURE ZONE ASSEMBLY - 1 INCH, LEAD FREE CAST BRASS, EASILY REMOVABLE MODULAR CHEC PRESSURE, 33F-180F TEMP RANGE, ALL PARTS, COMPONENTS, AND ASSEMBLIES MADE IN USA |
| TMV-1 | LEONARD #TM-26-LF-BDT-IT | THERMOSTATIC MIXING VALVE - SOLID BI-METAL THERMOSTAT CONTROLS, 3/4" SWEAT CONNECTIONS, 1 GPM I 125°F, BALL VALVE WITH DIAL THERMOMETER ON OUTLET, INLET THERMOMETERS, ASSE 1017 CERTIFIED |
| ET-1 | AMTROL #ST-12-C "THERM-X-TROL" | EXPANSION TANK - 6.4 GAL TOTAL CAPACITY, 150 PSI WORKING PRESSURE, 12"DIA x 18" H, 3/4" NPT THREADED |
| WCO | WADE #8304-COF SERIES | WALL CLEANOUT - SAME SIZE AS LINE, MAX 4", CAST IRON FERRULE W/ ABS PLUG, ROUND STAINLESS STEEL S |
| DCOTG | WADE #6000-12 SERIES | DOUBLE-CLEANOUT-TO-GRADE - SAME SIZE AS LINE, MAX. 4 INCH, HEAVY DUTY CAST IRON, FERRULE, THREADI |
| WF-1 | CULLIGAN #HE DF-16 | WATER FILTER TANK - 16"Dx54"H, CORROSION-RESISTANT FRP CONSTRUCTION, 14GPM CONTINUOUS FLOW @ 4 |
| WS-1 | CULLIGAN #HE-090 | WATER SOFTENER TANK - 16"Dx53"H, CORROSION-RESISTANT FRP CONSTRUCTION, 26.6GPM CONTINUOUS FLO AS RECOMMENDED BY MANUFACTURER |

| | PLUMBING EQUIPMENT | | | | | | | |
|-------|----------------------|--|---------------------|-----------------|---------|-------|-------|----------|
| ID | BASIS OF DESIGN | SPECIFICATION | | ELECI | RICAL | | | |
| | MANUFACTURER & MODEL | | UTILITY CONNECTIONS | CONNECTION TYPE | VOLTAGE | PHASE | POWER | AMPS |
| EWH-1 | RHEEM #EGSP30 | ELECTRIC WATER HEATER - 30 GAL, 12 GPH @ 100°F RISE, 17"DIA 45"H, TANK TYPE, HIGH-TEMP PORCELAIN ENAMEL TANK LINING, MAGNESIUM ANODE ROD RIGIDLY SUPPORTED, 150 PSI WORKING PRESSURE RATING, COPPER RESISTORED SCREW-IN | 3/4"CW, 3/4"HW | HARDWIRED WITH | 208 V | | 3 kW | 14.5 FLA |
| | | ELEMENTS, INSLUTED WITH 2-1/2" RIGID POLYURETHANE FOAM, SURFACE MOUNTED THERMOSTATS WITH INTEGRAL MANUAL RESET, HIGH LIMIT CONTROL, CSA/ASME RATED T&P RELIEVE VALVE, UL SEAL OF CERTIFICATION, COMPLETELY FACTORY ASSEMBLED. DESIGN TEMPERATURE SETPOINT: 140°F | TANK DRAIN | GFCI PROTECTION | | 1 | | |
| HWRP- | | HOT WATER CIRCULATOR PUMP - VARIABLE FLOWRATE, 16 GPM MAX FLOWRATE, 10' MAX SHUTOFF HEAD, 7"x4-1/8"x6-3/8", STAINLESS STEEL CASING, COMPOSITE STATOR HOUSING, COMPOSITE CARTRIDGE, COMPOSITE IMPELLER, CERAMIC SHAFT, | 3/4" CW | HARDWIRED WITH | 120 V | 1 | 44 W | .54 FLA |
| | | CARBON BEARINGS, EPDM O-RINGS/GASKETS, SELF LUBRICATING, DIRECT DRIVE, REPLACEABLE CARTRIDGE DESIGN, NO MECHANICAL SEAL. SET FLOW TO MAINTAIN >120°F RETURN TEMP | | GFCI PROTECTION | | | | 1 |

PLUMBING FIXTURE

SPECIFICATION

"x19"x30-7/8"H, 1.28 GPF, FLOOR MOUNTED TANK TYPE, VITREOUS CHINA, PISTON-ACTION FLUSH VALVE, ANTI-BACTERIA INHIBITORS, ELONGATED BOWL, SEAT - OPEN FRONT SEAT.

3 GPF, FLOOR MOUNTED TANK TYPE, VITREOUS CHINA, ANTI-BACTERIA INHIBITORS, ELONGATED BOWL, SEAT - OPEN FRONT SEAT, SELF SUSTAINING, LESS COVER

NTED, VITREOUS CHINA, 3/4" EXPOSED TOP SPUD, WASHOUT ACTION, INTEGRAL TRAP, FLUSH VALVE - 0.5 GPF, MASHAERATOR SELF-CLEANING BYPASS DIAPHRAGM, EXTERNALLY ND REPLACEABLE SEAT

1/2"x38"H, WALL HUNG, WHITE VITREOUS CHINA, FRONT OVERFLOW, TWO FAUCET HOLES ON 4" CENTERS, FAUCET - 0.5 GPM, MANUAL, SINGLE LEVER, LEAD FREE, 4" SPOUT, DUAL GRAL THERMOSTATIC MIXING ABOVE DECK, CARRIER - CONCEALED ARM WALL CARRIER

COMPARTMENT (12"x12"x7-1/2"D), COUNTER-TOP, SELF RIMMING, 18 GAUGE TYPE 302 STAINLESS STEEL, CENTER DRAIN OUTLET, THREE FAUCET HOLES ON 8" CENTERS, FAUCET -" SWING SPOUT WITH DUAL-PATTERN PULL DOWN OUTLET, DECK MTD, SINGLE LEVER HANDLE, CONCEALED DUAL HOT/COLD SUPPLY, SINGLE HOLE

DRNER, PRECAST TERAZZO, STAINLESS STEEL CAPS, FAUCET - CHROME PLATED LEAD FREE, VACUUM BREAKER, PAIL HOOK, 6" WRIST BLADE CONTROLS, 3/4" HOSE THREADED OU G CHECK VALVES, UPPER SUPPORT ROD

R WALL THICKNESS+4", RED BRASS VALVE BODY, 3/8" SOLID BRASS OPERATING ROD, HARDENED STAINLESS STEEL STEM, ONE PIECE VALVE PLUNGER, COPPER CASTING TUBES, I CTION W/ HIGH FLOW DOUBLE CHECK BACKFLOW PREVENTER, ADJUSTABLE WALL CLAMP WHITE POWDER COATED 20 GAUGE STEEL WALL BOX, BOTTOM SUPPLY VALVE, LEAD FREE BRASS, QUARTER TURN, SWEAT INLET CONNECTION, INTEGRAL HAMMER ARESSTOR, MO

RED CAST IRON W/ ANCHOR FLANGE, OPTIONAL CLAMPING COLLAR FOR MEMBRANE FLOORS, SEEPAGE OPENINGS, 6"DIA SATIN NICKEL BRONZE FINISHED STRAINER, VANDAL RES

ENAMEL COATING ON DRAIN AND GRATE, (-150) LOOSE SET 1/2 GRATE, ANCHOR FLANGE, OPTIONAL CLAMPING COLLAR FOR MEMBRANE FLOORS, SEEPAGE OPENINGS, ANTI-SPL

PLUMBING ACCESSORY

SPECIFICATION

IECK VALVE ASSEMBLIES, CAPTURED STAINLESS STEEL SPRINGS, BALL VALVE SHUT-OFFS W/ STAINLESS STEEL HANDLES AND UNIONS, WYE STRAINER INCLUDED, MODULAR REL

/I MINIMUM FLOW, INTEGRAL CHECK STOPS, LEAD FREE BRONZE, BRASS, AND STAINLESS STEEL CONSTRUCTION, 125 MAX PRESSURE, COLOR CODED DIAL, ADJUSTABLE HIGH LI

D CONNECTION, 17 LBS, PROVIDE FULL PORT ISOLATION BALL VALVE AT CONNECTION TO CW

. SECURE ACCESS COVER, COUNTERSUNK CENTER SCREW

DED ADJUSTABLE HOUSING, INTEGRAL CLAMPING COLLAR, ABS PLUG, 7-1/8 INCH SQUARE HEAVY DUTY DUCTILE IRON TOP

@ 4PSI DROP, 21GPM PEAK FLOW @ 6PSI DROP, 20GPM BACKWASH DRAIN FLOW, 280LB MEDIA CAPACITY, 20-125PSI OPERATING PRESSURE RANGE, MEETS NSF 61

FLOW @ 15PSI DROP, 35.2GPM PEAK FLOW @ 25PSI DROP, 5.5GPM DRAIN FLOW, 3FT3 RESIN CAPACITY, 5 NTU MAX TURBIDITY, 20-125PSI OPERATING PRESSURE RANGE, MEETS NS

| WATER HAMMER ARRESTOR | | | | | | | | |
|----------------------------------|---|-------|-------|--------|---------|---------|--|--|
| P.D.I. UNITS | Α | В | С | D | E | F | | |
| FIXTURE UNITS | 1-11 | 12-32 | 33-60 | 61-113 | 114-154 | 155-330 | | |
| PISTON, (2) EPDN HAMMER ARRES | WADE "SHOKSTOP" #4481 SERIES WATER HAMMER ARRESTOR, SEAMLESS COPPER CONSTRUCTION, POLYPROPYLENE PISTON, (2) EPDM O-RINGS, MNPT CONNECTION, MAX. PRESS. 350 PSI, MAX. TEMP. 250°F, PROVIDE PROPERLY SIZED WATER HAMMER ARRESTORS AND LOCATE ON PIPING IMMEDIATELY UPSTREAM OF ALL QUICK CLOSING VALVES (E.G. FLUSH VALVES, DISHWASHER, ICE MAKERS, SOLENOID VALVES, ETC.) | | | | | | | |

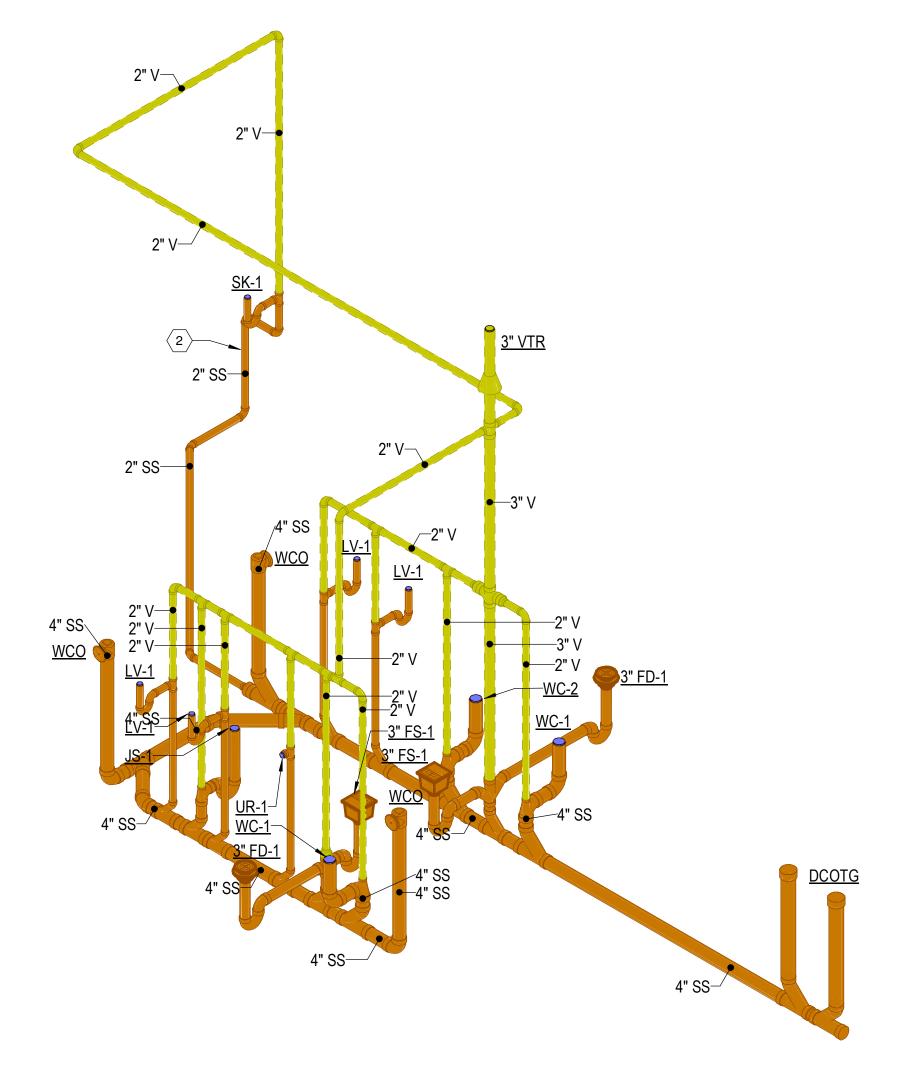
| | COLD | НОТ | WASTE | INDIRECT | VENT | TRAP |
|----------|------|------|-------------|----------|------|----------|
| AT, SELF | 1/2" | | 4" | | 2" | INTEGRAL |
| | 1"2" | | 4" | | 2" | INTEGRAL |
| / | 3/4" | | 2" | | 2" | INTEGRAL |
| - | 1/2" | 1/2" | 2" | | 2" | 1-1/4" |
| T - 1.0 | 1/2" | 1/2" | 2" | | 2" | 1-1/2" |
| OUTLET, | 3/4" | 3/4" | 3" | | 2" | 3" |
| , DRAIN | 3/4" | | | | | |
| MOUNT | 1/2" | | | | | |
| ESISTANT | | | SEE PLAN | | 2" | SEE PLAN |
| LASH | | | SEE PLAN | | 2" | SEE PLAN |

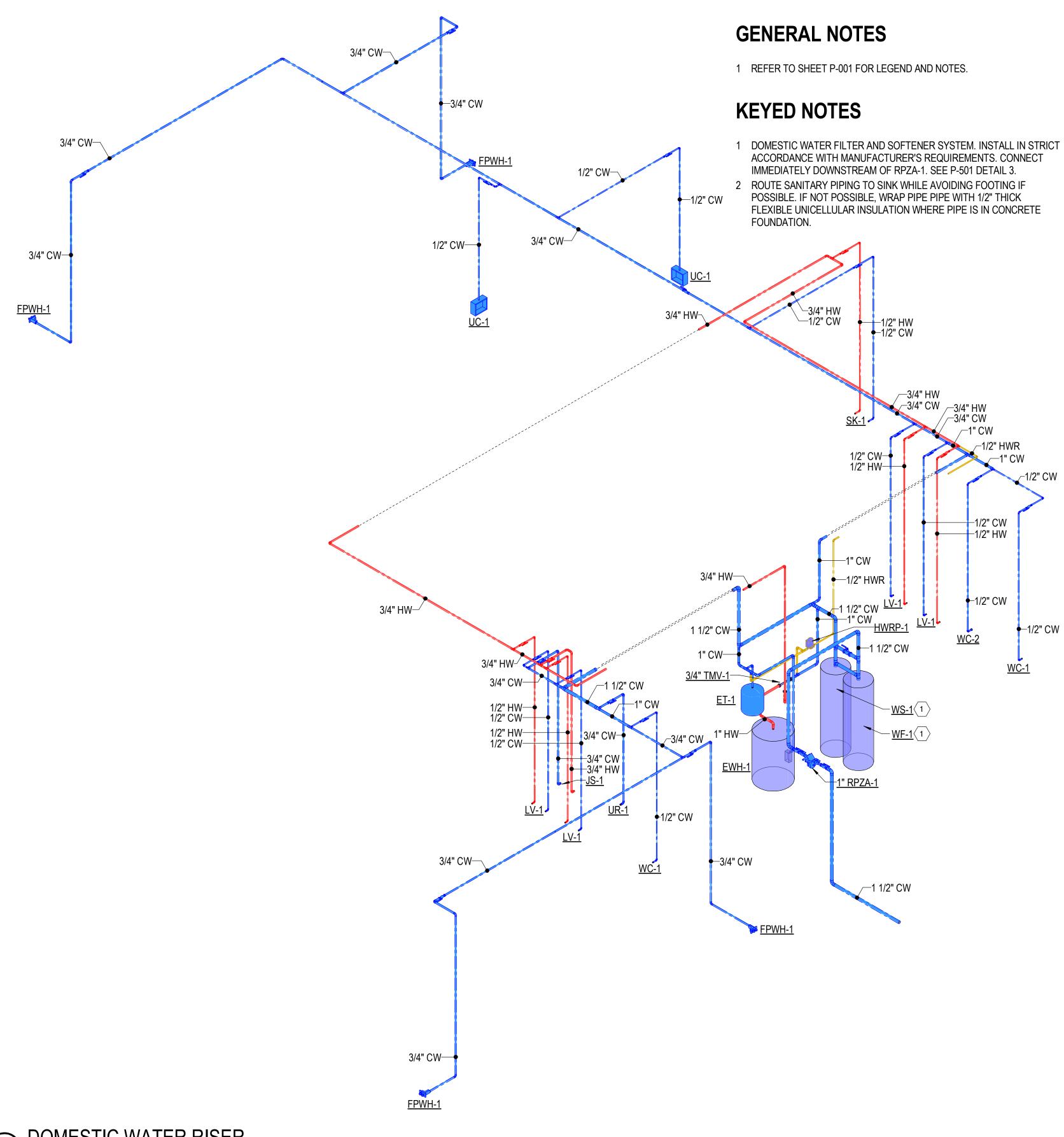
| | UTILITY CONNECTION |
|--------------------------------------|--|
| ELIEF VALVE, 175 PSI MAX WORKING | 1"CW |
| LIMIT TEMPERATURE STOP SET FOR | 3/4"CW INLET, 3/4"HW INLET, 3/4"TW OUTLET |
| | 3/4" CW |
| | SAME SIZE AS LINE, MAX 4" |
| | SAME SIZE AS LINE, MAX 4" |
| | 1-1/2"CW |
| ISF 61, INCLUDE 80 GALLON BRINE TANK | 1-1/2"CW |

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| Peside Marken Service Processing A B R C K E D V R C K |
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| CROMWELL ARCHITECTS/ ENGINEERS #5 #5 #5 #5 #5 #5 #5 #5 #5 #5 #5 #5 #5 |
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| Issue Date 2024-210 |
| Sheet Title PLUMBING SCHEDULES |
| Sheet Number |

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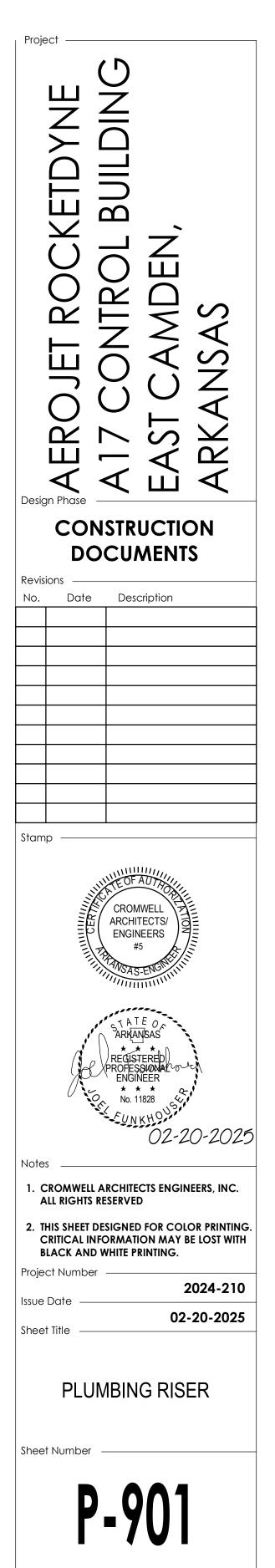






2 DOMESTIC WATER RISER NOT TO SCALE



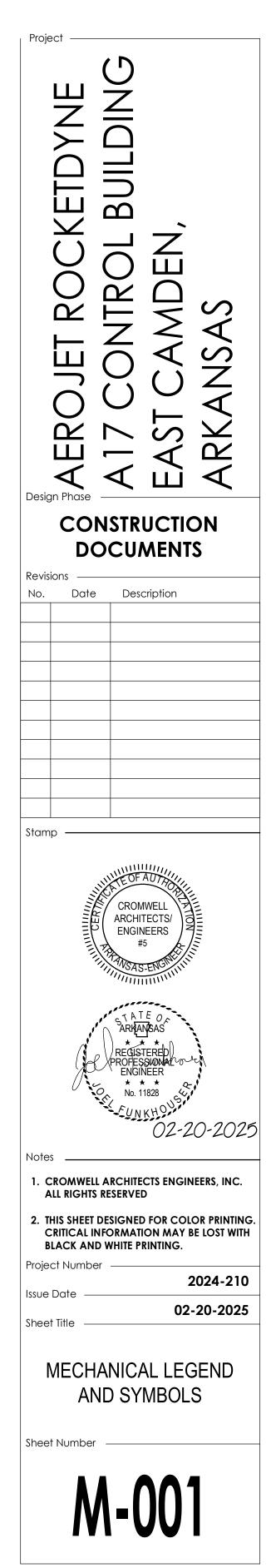


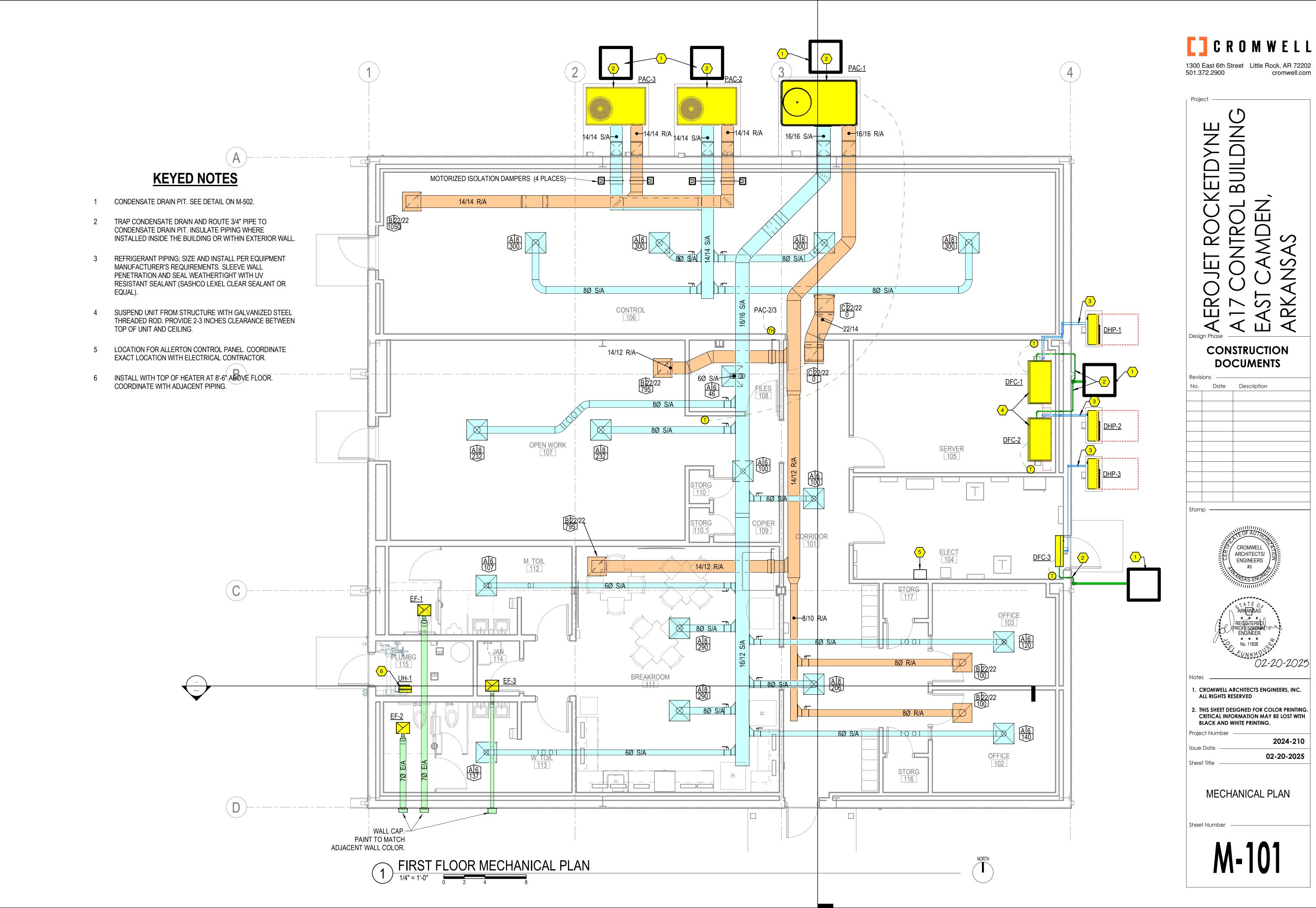
| ABBREVIATIONS | HVAC DUCTWORK LEGEND |
|---|---|
| AFF ABOVE FINISHED FLOOR MBH THOUSAND BTUS PER HOUR | 22/14 SQUARE DUCT SIZE TAG (WIDTH x HEIGHT) |
| AHUAIR HANDLING UNITMCAMINIMUM CIRCUIT AMPSBHPBRAKE HORSE POWERMOCPMAXIMUM OVER CURRENT | 22/14Ø OVAL DUCT SIZE TAG (WIDTH / HEIGHT) |
| BTU BRITISH THERMAL UNIT PROTECTION CFM CUBIC FEET PER MINUTE NC NORMALLY CLOSED | 22Ø ROUND DUCT SIZE TAG (DIAMETER) |
| CVCONSTANT VOLUMENONORMALLY OPENEDCUCONDENSING UNITNTSNOT TO SCALE | |
| DB DRY BULB TEMPERATURE (°F) OA OUTSIDE AIR | |
| DDCDIRECT DIGITAL CONTROLSPSIPOUNDS PER SQUARE INCHDOAS DEDICATED OUTSIDE AIR SYSTEM PSIGPSI GAUGE | DUCT BEING DEMOLISHED |
| DNDOWNPVCPOLYVINYL CHLORIDE PIPEEATENTERING AIR TEMPERATURERARETURN AIR | S/A SUPPLY AIR |
| EF EXHAUST FAN RH RELATIVE HUMIDITY ESP EXTERNAL STATIC PRESSURE RHC REHEAT COIL | O/A OUTSIDE AIR |
| EWT ENTERING WATER TEMPERATURE RLA RUNNING LOAD AMPS | RETURN AIR |
| FCUFAN COIL UNITRPMREVOLUTIONS PER MINUTEFDFIRE DAMPERRS/RLREFRIGERANT SUCTION & LIC | QUID E/A EXHAUST AIR |
| FLAFULL LOAD AMPSLINESFPIFINS PER INCHRTUROOFTOP AIR HANDLING UNI | IT DROP CONTRICT RECTANGULAR SUPPLY/OUTSIDE AIR DUCT RISE |
| FPMFEET PER MINUTESASUPPLY AIRGPMGALLONS PER MINUTESFSUPPLY FAN | DROP 🔅 ROUND SUPPLY/OUTSIDE AIR DUCT RISE |
| IV INTAKE VENTILATOR SP STATIC PRESSURE | DROP 🔀 RECTANGULAR RETURN AIR DUCT RISE |
| KWKILOWATTTSPTOTAL STATIC PRESSURELATLEAVING AIR TEMPERATUREVAVVARIABLE AIR VOLUME | DROP 😒 🛛 🚫 ROUND RETURN AIR DUCT RISE |
| LRA LOCKED ROTOR AMPS VRF VARIABLE REFRIGERANT FLC LWT LEAVING WATER TEMPERATURE VFD VARIABLE FREQUENCY DRIV | |
| WB WET BULB TEMPERATURE (° | F) DROP 🔆 🛛 🖉 ROUND EXHAUST AIR DUCT RISE |
| GENERAL MECHANICAL SYMBOLS | |
| | FLEXIBLE CONNECTION |
| REVISION NUMBER SHOWN ON PLANS | 90° ELBOW W/ TURNING VANE |
| POINT WHERE NEW CONNECTS TO EXISTING | |
| DEMOLISH TO POINT INDICATED | 90° BEND, ROUND DUCT |
| NUMBER OF DETAIL ON SHEET NUMBER OF SHEET WHERE DETAIL | |
| M-001 APPEARS | |
| (1) KEYNOTE CONTINUATION SYMBOLS: | 45° BEND, ROUND DUCT |
| ROUND DUCT | |
| -1- RECTANGULAR DUCT | 45° RECTANGULAR DUCT |
| SPACE TAG: OFFICESPACE NAME | |
| | -30° OR LESS FOR ALL SIMILAR FITTINGS |
| 100 SF-SPACE AREA | TOP SIDE |
| ITEM TO BE DEMOLISHED | RECTANGULAR TRANSITION |
| AREA NOT IN CONTRACT | |
| HVAC ENERGY DESIGN CONDITIONS | TOP SIDE |
| LOCATION: EAST CAMDEN, AR | DUCT ACCESSORIES |
| OUTDOOR SUMMER 98°F DB / 78°F WB (0.4% OCCURANCE): | |
| OUTDOOR WINTER 21°F DB / 19°F WB | FIRE DAMPER |
| (99.0% OCCURANCE): | |
| INSIDE SETPOINT SUMMER: 72°F DB / 55% MAX RH. | SMOKE DAMPER |
| INSIDE SETPOINT WINTER: 70°F DB | |
| SEISMIC DESIGN CONDITIONS | FIRE/SMOKE DAMPER |
| 1. SEISMIC DESIGN DATA: | HVAC GRILLES/DIFFUSERS |
| A. SEISMIC DESIGN CATEGORY: C B. MECHANICAL COMPONENTS IMPORTANCE FACTOR: 1.0 | SUPPLY DIFFUSER (SEE PLANS OR SCHEDULE FOR SIZES) |
| 2. SEISEMIC RESTRAINTS ARE NOT REQUIRED FOR THE MECHANICAL COMPONENTS AND SYSTEMS PER THE | RETURN GRILLE (SEE PLANS OR |
| REQUIREMENTS FOR THE INTERNATIONAL BUILDING CODE | SCHEDULE FOR SIZES) |
| (IBC) AS DEFINED PER ASCE 7 - SECTION 13.6. | EXHAUST GRILLE (SEE PLANS OR SCHEDULE FOR SIZES) |
| | MECHANICAL PHASING |
| MECHANICAL EQUIPMENT TAGS | |
| | EQUIPMENT (TYPICAL TAG FOR ALL NEW |
| EQUIPMENT MARK ID | CONSTRUCTION) |
| | EVAV-XX —/ EXISTING MECHANICAL EQUIPMENT |
| | (TYPICAL FOR ALL EXISTING TAGS) |
| 200 CFM - EQUIPMENT AIRFLOW | (E)EVAV-XX- |
| EVAV-XX - EQUIPMENT MARK ID | MECHANICAL EQUIPMENT FOR DEMOLITION (TYPICAL FOR ALL DEMOLITION TAGS) |
| MECHANICAL DATA DEVICES | |
| SENSOR | (D)EVAV-XX-/ |
| | MECHANICAL SHEET SET NOTE |
| MANUAL SWITCH THERMOSTAT | * NOTE * ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL |
| SENSOR AHU-1 LOCKING COVER | OTHER DRAWINGS IN THIS SET. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THE CONTAINED REFERENCE DRAWINGS. |

GENERAL NOTES

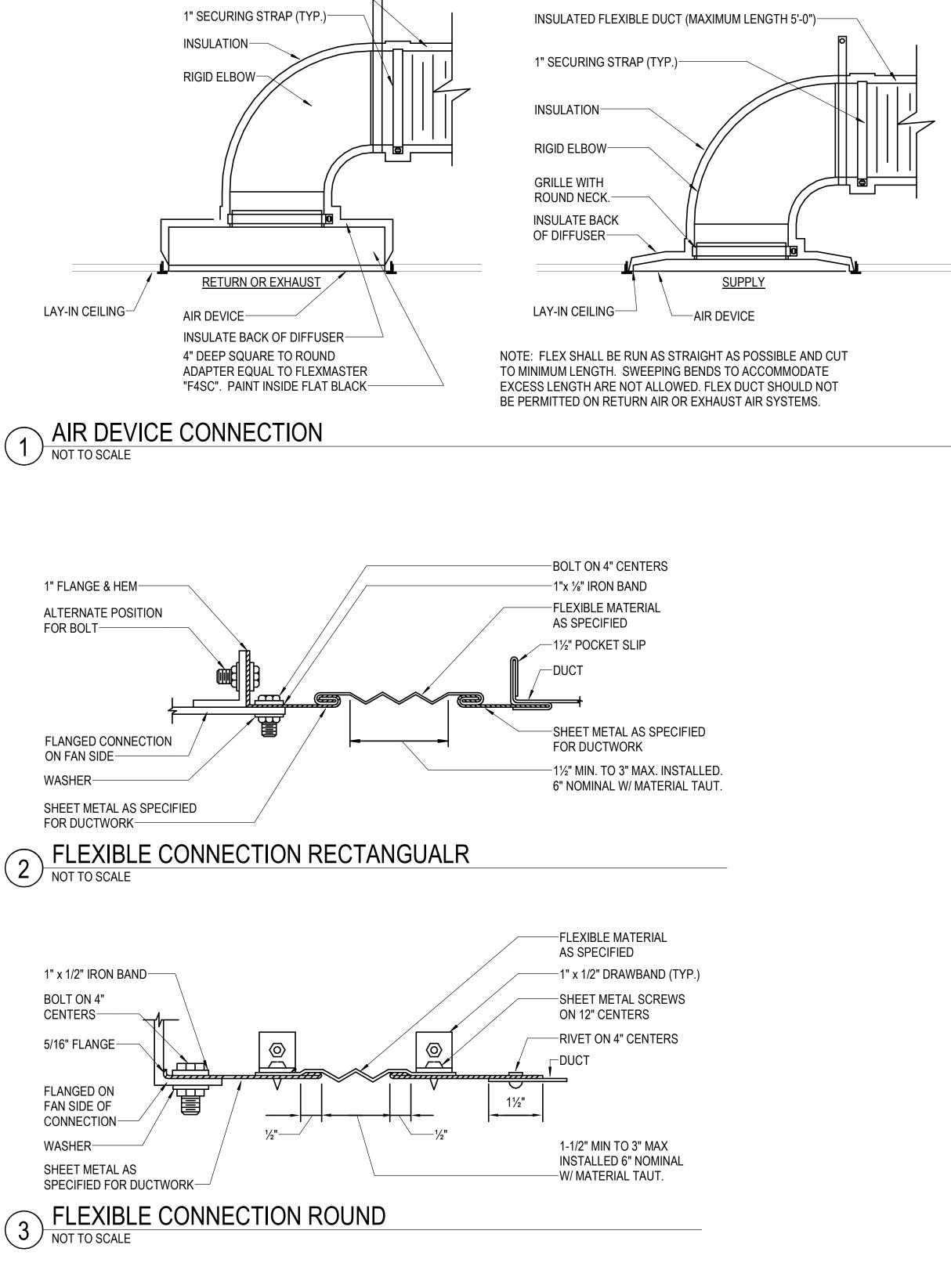
- 1 ALL WORK SHALL COMPLY WITH THE 2021 EDITION OF THE "INTERNATIONAL MECHANICAL CODE", THE 2014 EDITION OF THE "ARKANSAS ENERGY CODE", NFPA 90A, AND ALL CITY, STATE, AND LOCAL REQUIREMENTS.
- 2 REFER TO THE SPECIFICATIONS FOR ALL REQUIREMENTS
- 3 REFER TO ARCHITECTURAL PLANS FOR: REFLECTED CEILING PLAN FOR EXACT LOCATION OF AIR DEVICES AND CEILING TYPES. - EXACT LOCATIONS AND MOUNTING HEIGHTS OF EXTERIOR LOUVERS. - FIRE RATED WALLS AND PARTITIONS. PROVIDE FIRE DAMPERS IN DUCT PENETRATIONS OF ALL FIRE RATED WALLS AND PARTITIONS AS NECESSARY TO MEET CITY AND STATE REQUIREMENTS. - ALL WALL AND ROOF PENETRATIONS AND EQUIPMENT MOUNTING DETAILS.
- 4 ALL DUCTWORK SHALL BE CONSTRUCTED FROM GALVANIZED STEEL IN CONFORMANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS," LATEST EDITION
- 5 U.L. LISTED FLEXIBLE DUCT RUN-OUTS MAY BE USED, BUT SHALL NOT EXCEED 5'-0" IN LENGTH. ALL FLEXIBLE DUCT TO BE PROPERLY SUPPORTED WITH NO KINKS OR HARD BENDS.
- 6 DUCT FITTINGS: SUPPLY TAKE-OFFS TO CEILING SUPPLY DIFFUSERS TO BE CONICAL TAP OR 45° SIDE TAP. - ALL DUCT RUN-OUTS TO HAVE LOCKING QUADRANT VOLUME DAMPERS. PROVIDE STAND-OFF BRACKET TO ACCOMMODATE INSULATION THICKNESS. -ALL 90° ROUND ELBOWS TO HAVE R/D=1.5 (UNLESS OTHERWISE NOTED). - ALL 90° RECTANGULAR ELBOWS TO HAVE TURNING VANES (UNLESS OTHERWISE NOTED). -PROVIDE HARD ELBOW WHEN TRANSITIONING FROM RIGID TO FLEXIBLE DUCT WHEN CONNECTING TO AIR DEVICES. REFER TO DETAIL.
- 7 DUCTWORK TO BE COORDINATED WITH STRUCTURAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION, COMPONENTS AND SYSTEMS. ALL DUCTWORK THAT HAS TO BE OFFSET DUE TO AN OBSTRUCTION SHALL BE SLOPED WITH 2-30° ELBOWS UNLESS OTHERWISE NOTED.
- 8 PROVIDE ACCESS PANELS IN CEILINGS OTHER THAN LAY-IN TYPE WHERE NECESSARY: -CLOSELY COORDINATE LOCATIONS AND SIZE OF ACCESS PANELS WITH INSTALLED EQUIPMENT TO ACHIEVE GREATEST ACCESSIBILITY FOR MAINTENANCE PURPOSES. -PROVIDE ACCESS PANEL AT BALANCING DAMPERS, FIRE DAMPERS, CONTROLS, VALVES, TRAPS, CLEAN OUTS, ETC. - PROVIDE ACCESS PANELS FOR GREASE DUCTS, AS REQUIRED BY NFPA 96, FOR CLEANING PURPOSES, AT CHANGES IN DIRECTION, ETC.
- 9 COMPLETELY INSULATE THE TOPS OF ALL CEILING DIFFUSERS.
- 10 CLOSELY COORDINATE LOCATIONS OF INSTALLED EQUIPMENT TO ACHIEVE THE GREATEST ACCESSIBILITY.
- 11 MAINTAIN 10'-0" MINIMUM CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND ALL EXHAUST FANS, FLUES, PLUMBING VENTS, ETC.
- 12 PROVIDE FLEXIBLE CONNECTIONS AT INLETS AND OUTLETS OF ALL AIR HANDLING UNITS, MAKE-UP AIR UNITS, FURNACES, AND/OR EXHAUST FANS.
- 13 PROVIDE 4" CONCRETE PADS UNDER ALL GROUND MOUNTED CONDENSING UNITS. EACH PAD TO EXTEND A MINIMUM OF 6" BEYOND OUTLINE OF UNIT ON ALL SIDES.
- 14 PROVIDE 6" CONCRETE PADS UNDER ALL GROUND MOUNTED AIR PACKAGED UNITS. EACH PAD TO EXTEND A MINIMUM OF 6" BEYOND OUTLINE OF UNIT ON ALL SIDES.
- 15 FIRESTOP ALL PIPE AND DUCT PENETRATIONS THROUGH FIRE RATED ASSEMBLIES.16 CONDENSATE PIPING SHALL BE COMPRISED OF TYPE "M", DWV COPPER, OR SCHEDULE 40 PVC. PVC EXPOSED TO SUNLIGHT SHALL HAVE UV RESISTANT COATING.
- 17 ALL WALL-MOUNTED, OCCUPANT-CONTROLLED HVAC DEVICES, I.E., THERMOSTATS, HUMIDISTAT, CO2 CONTROLLERS, CONTROL PANELS, ETC., SHALL BE MOUNTED 4'-0" ABOVE FINISHED FLOOR. CONTROLS LOCATED IN PUBLIC AREAS SHALL HAVE CLEAR PLASTIC LOCKING COVERS.
- 18 COORDINATE WORK CLOSELY WITH CONTROL CONTRACTOR. PROVIDE ALL NECESSARY DUCT, PIPE TAPS, TEES, WELLS, CONTROL DAMPERS, AIR MEASURING STATIONS, AND OTHER ACCESSORIES REQUIRED BY CONTROL SYSTEM





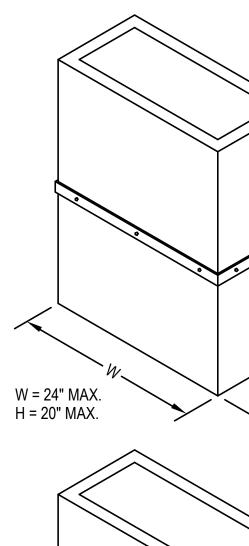


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| M- 1 | 101 |



INSULATED FLEXIBLE DUCT

(MAXIMUM LENGTH 5'-0")-



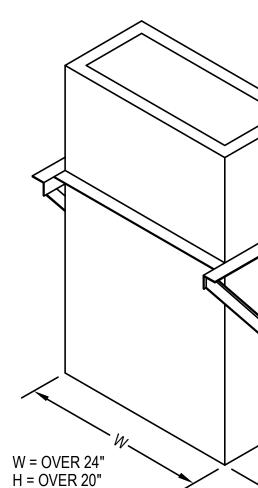
CONICAL OR 45° TAKE-OFF FITTING WITH 1" MOUNTING FLANGE AND ADHESIVE COATED GASKET. ATTACH WITH SHEET METAL SCREWS.

NOTES:

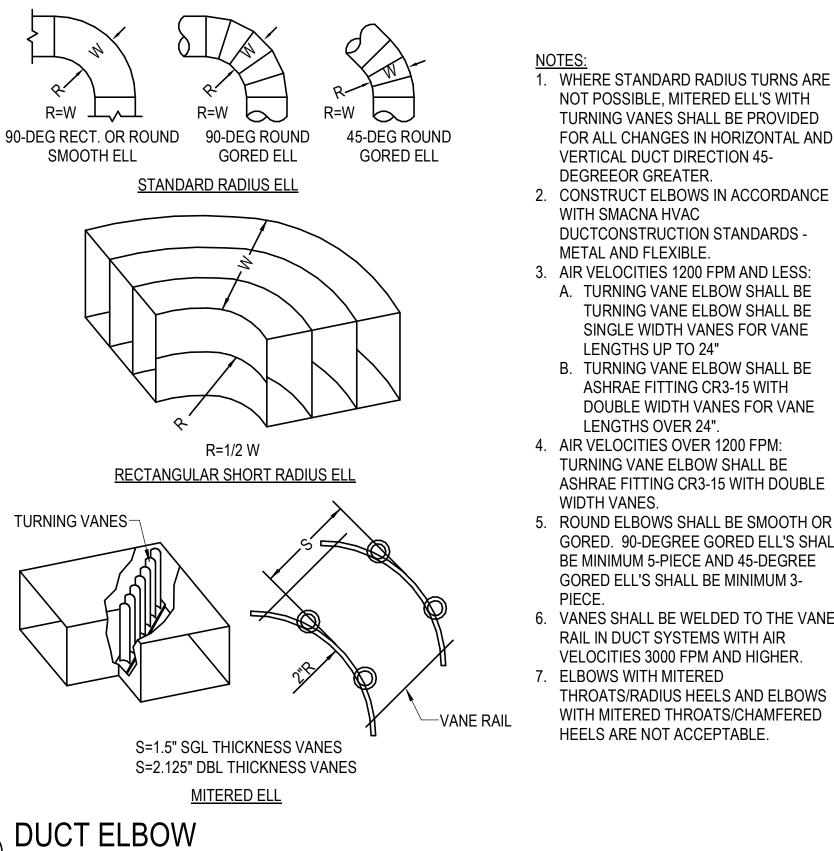
5

NOT TO SCALE

- 1. PROVIDE SUPPORT AT 12' O.C. MAX. 2. ANCHOR ANGLE IRON SUPPORTS TO WALL
- AT 12" O.C. SPACING MAX.
- 3. ALL BRACE-TO-DUCT FASTENERS SHALL BE EQUALLY SPACED AT 8" O.C.



EXTERIOR VERTICAL RECTANGULAR DUCT SUPPORT (4) **EAIERIN** NOT TO SCALE



CROMWELL 1300 East 6th Street Little Rock, AR 72202 501.372.2900 -INSULATED, Project WEATHERPROOF CLADDED DUCTWORK -ANCHOR TO EXTERIOR WALL - VFY WALL CONSTRUCTION - ANCHOR Ζ SHALL BE SECURED TO STRUCTURAL FRAMING ON CAVITY WALLS \succ -1" x 1/8" THICK GALVANIZED STEEL STRAP ய \sim Ш -INSULATED, WEATHERPROOF

CLADDED DUCTWORK

—1-1/4" x 1-1/4" x 1/8"

WELDED

THICK GALVANIZED

STEEL ANGLE FRAME

-ANCHOR TO EXTERIOR WALL - VFY

SHALL BE SECURED TO STRUCTURAL

WALL CONSTRUCTION - ANCHOR

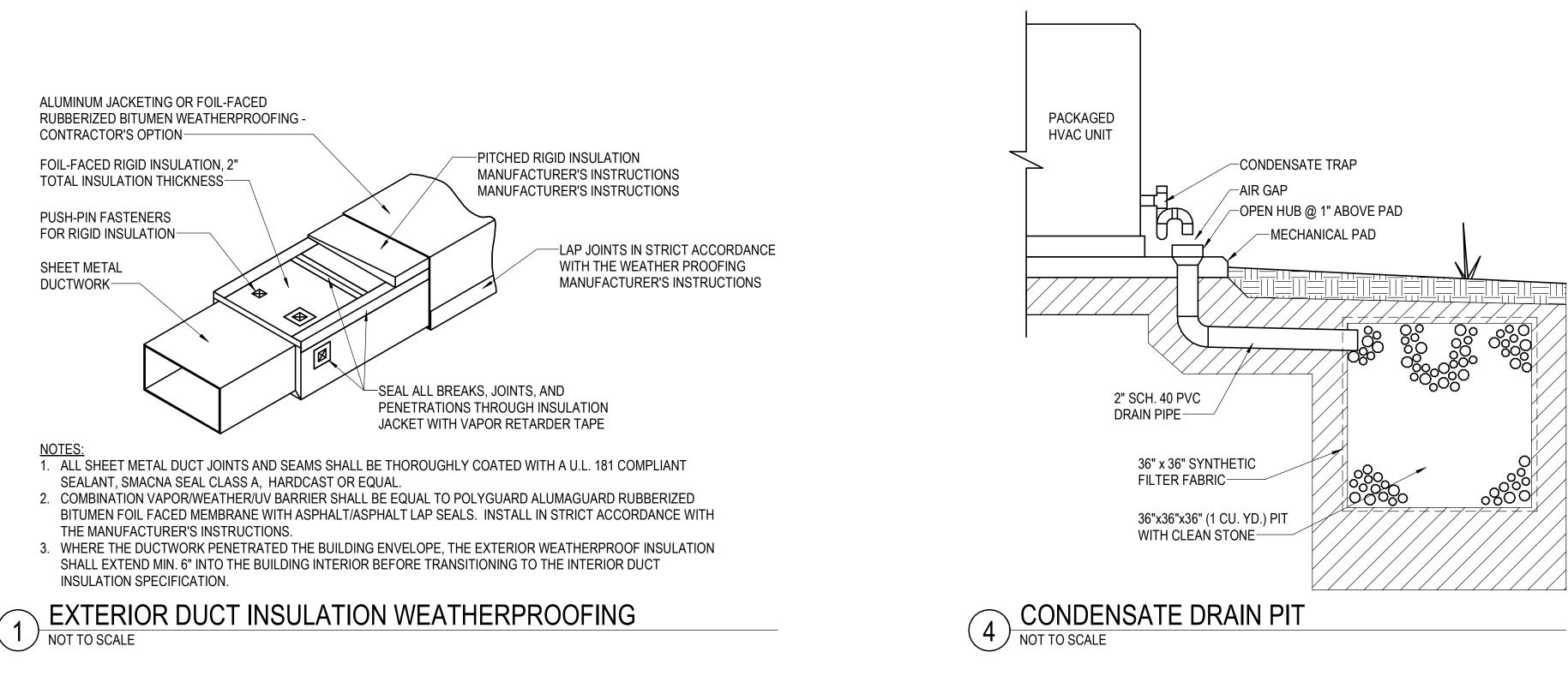
FRAMING ON CAVITY WALLS

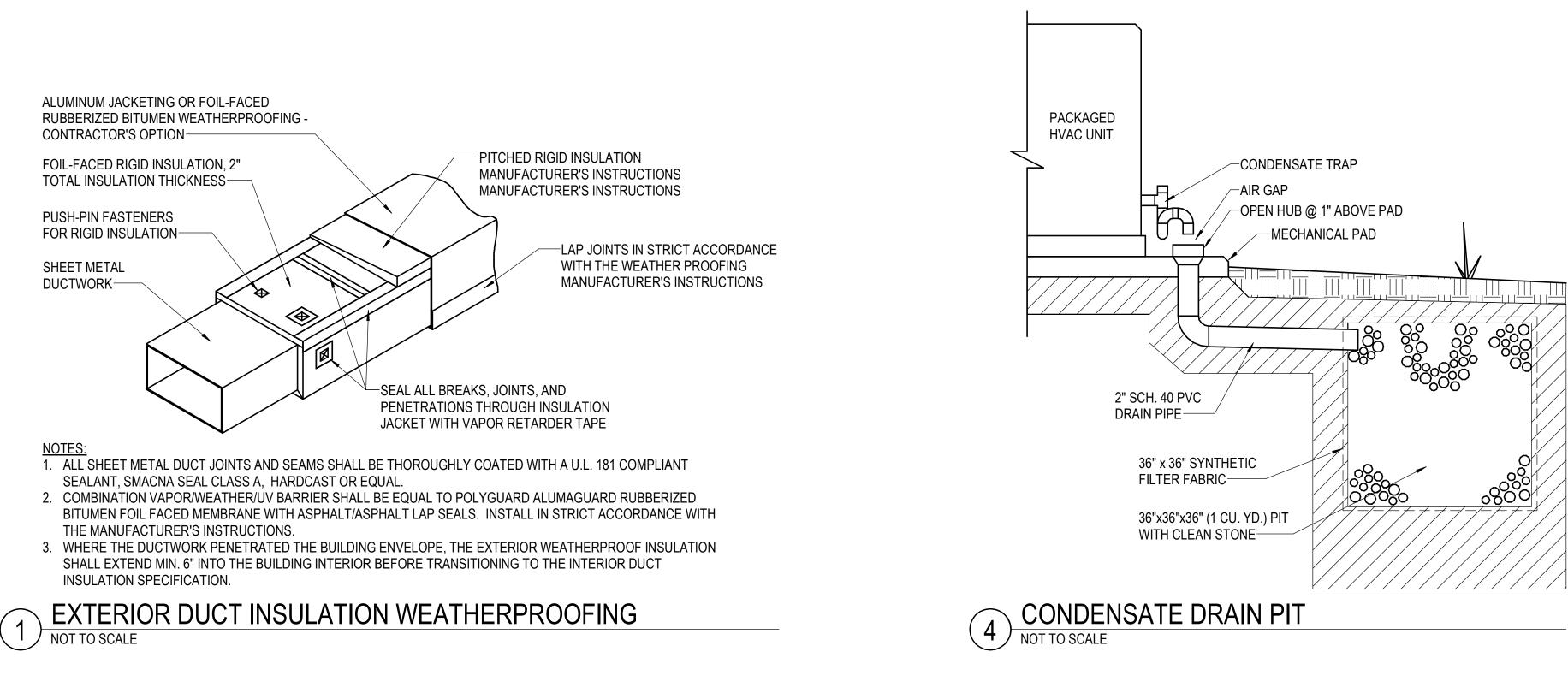
NOT POSSIBLE, MITERED ELL'S WITH TURNING VANES SHALL BE PROVIDED FOR ALL CHANGES IN HORIZONTAL AND VERTICAL DUCT DIRECTION 45-DEGREEOR GREATER. 2. CONSTRUCT ELBOWS IN ACCORDANCE WITH SMACNA HVAC DUCTCONSTRUCTION STANDARDS -METAL AND FLEXIBLE. 3. AIR VELOCITIES 1200 FPM AND LESS: A. TURNING VANE ELBOW SHALL BE TURNING VANE ELBOW SHALL BE SINGLE WIDTH VANES FOR VANE LENGTHS UP TO 24" B. TURNING VANE ELBOW SHALL BE ASHRAE FITTING CR3-15 WITH DOUBLE WIDTH VANES FOR VANE LENGTHS OVER 24". 4. AIR VELOCITIES OVER 1200 FPM: TURNING VANE ELBOW SHALL BE ASHRAE FITTING CR3-15 WITH DOUBLE WIDTH VANES. 5. ROUND ELBOWS SHALL BE SMOOTH OR GORED. 90-DEGREE GORED ELL'S SHALL **BE MINIMUM 5-PIECE AND 45-DEGREE** GORED ELL'S SHALL BE MINIMUM 3-6. VANES SHALL BE WELDED TO THE VANE RAIL IN DUCT SYSTEMS WITH AIR

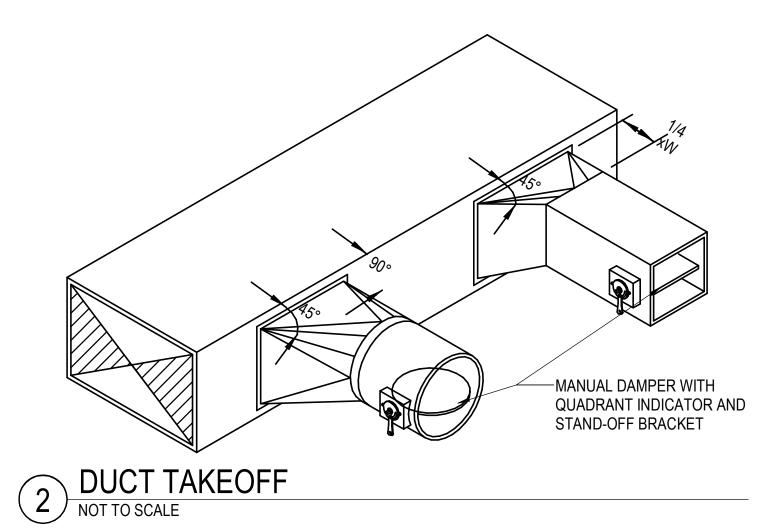
VELOCITIES 3000 FPM AND HIGHER. 7. ELBOWS WITH MITERED THROATS/RADIUS HEELS AND ELBOWS WITH MITERED THROATS/CHAMFERED HEELS ARE NOT ACCEPTABLE.

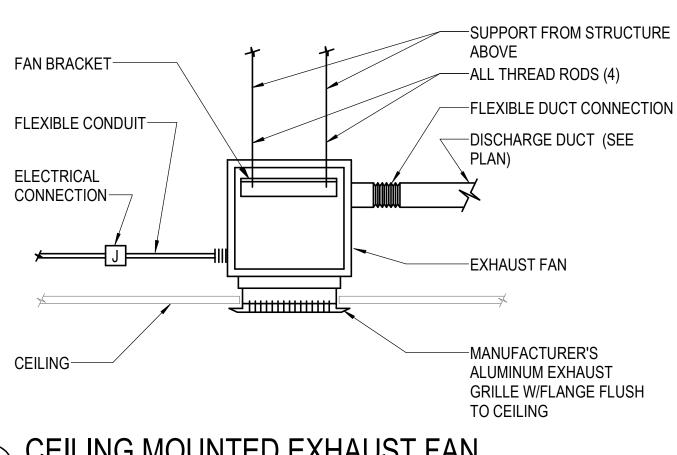
 \bigcirc ND Ω Ζ C Ш \square $\mathbf{\mathcal{N}}$ $\boldsymbol{\boldsymbol{\checkmark}}$ \bigcirc R V S $\mathbf{\Sigma}$ \sim Ш < \triangleleft \checkmark \triangleleft Ш Design Phase CONSTRUCTION DOCUMENTS Revisions No. Date Description Stamp CROMWELL ARCHITECTS/ ENGINEERS #5 τATE REGISTERED PROFESSIONA ENGINEER * * * No. 11828 JOFT 02-20-2025 Notes 1. CROMWELL ARCHITECTS ENGINEERS, INC. ALL RIGHTS RESERVED 2. THIS SHEET DESIGNED FOR COLOR PRINTING. CRITICAL INFORMATION MAY BE LOST WITH BLACK AND WHITE PRINTING. Project Number -2024-210 Issue Date 02-20-2025 Sheet Title MECHANICAL DETAILS Sheet Number **M-50**

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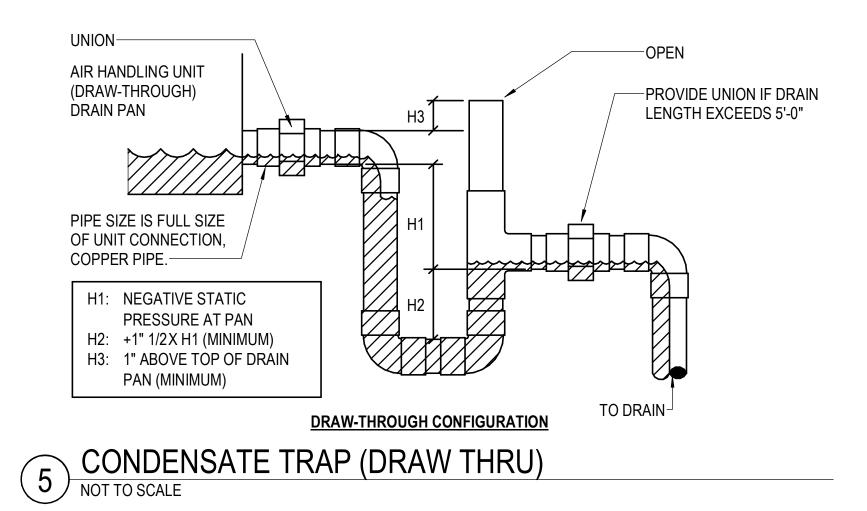












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| Shee | t Numbe | r / - , | 50' |) |

CROMWELL

| | | | | | | | | | | PA | CKAG | ED C | | _ING/ | HEA [.] | TIN | IG I | UNIT (E | DX F | HEAT F | PUMP) | | | | | | |
|--------|-----------------|-----------------|-------------------------------------|-------|-----------|-----|------------|---------|----------|----------------------------|----------------|----------|---------|------------|------------------|-----|---------------|-----------|------------|--------|----------|-----|---------|--------------|---|------|---|
| | MARK SERVES | | COOLING CAPACITY ENTERING AIR TE | | AIR TEMP. | - | INDOOR FAN | | | HEAT PUMP HEATING | | | AUX | LIARY ELEC | CTRIC HEA | AT | CONDENSER FAN | | NSING UNIT | | AMB. | EL | ECTRICA | CTRICAL DATA | | | |
| MARK | SERVES | TOTAL (BTUH) | SENSIBLE (BTUH) | DB°F | WB°F | NO. | HP (EA.) | CFM | ESP | HEATING BTUH AT 47 F | COP AT 47 F | 0.S.A. | KW | STAGES | VOLTS | 0 | NO. | TYPE | NO. | TYPE | TEMP. °F | MCA | MOCP | VOLTS | 0 | SEER | F |
| PAC-1 | BLDG A17 | 59,430 | 46,700 | 80 | 67 | 1 | 1 | 2,000 | 1.0 | 61,470 | 3.8 | 210 | 18 | 2 | 480 | 3 | 1 | PROPELLER | 1 | SCROLL | 95 | 43 | 45 | 480 | 3 | 16.4 | |
| NOTEO | | · · · · · · | | | | • | | | | | | | | | | | | | · · · · | | · · · | | | | | | |
| NOTES: | 1. PROVIDE WITH | HEAT PUN | IP THERMOS | STAT. | | | 3. PROVID | E SUPPL | Y DUCT S | SMOKE DET | ECTOR. | 5. BACNE | T INTER | RFACE | | | | | | | | | | | | | |

2. PROVIDE MERV 8 FILTERS.

| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | | | | | ſ | | AG | | | | | IINV | 3 (| ם) וואוכ | | | V/ L | | | | | | |
|--|-------|-------------|--------|---------|----------|-------------|-----|----------|-------|-----|-----|----|-------------------|-------|------|-----|-------------|------------|----|------|--------|---------|---|------|---------|----------------|
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | COOLING | CAPACITY | | - | | | | | | | | | | CONDENSI | NG UNIT | | | | | | | | |
| PAC-2 CONTROL 106 37,540 27,510 80 67 1 3/4 1,200 1.0 150 12 SCR MODULATING 480 3 1 PROPELLER 1 95 23 25 480 3 17.1 R-454B 660 | MARK | SERVES | | | ENTERING | G AIR TEMP. | | INDOOF | R FAN | | | | ELECTRIC HE | ATING | | CO | NDENSER FAN | COMPRESSOR | | EL | ECTRIC | AL DATA | | SEER | REFRIG. | WEIGHT (LB) |
| PAC-2 CONTROL 106 37,540 27,510 60 67 1 3/4 1,200 1.0 150 12 MODULATING 460 5 1 PROPELLER 1 95 25 25 460 5 17.1 R-454B 660 | | | | | DB°F | WB°F | NO. | HP (EA.) | CFM | ESP | | KW | STAGES | VOLTS | 0 | NO. | TYPE | NO. | | MCA | MOCP | VOLTS | | | | |
| | PAC-2 | CONTROL 106 | 37,540 | 27,510 | 80 | 67 | 1 | 3/4 | 1,200 | 1.0 | 150 | 12 | | 480 | 3 | 1 | PROPELLER | 1 | 95 | 23 | 25 | 480 | 3 | 17.1 | R-454B | 660 |
| | PAC-3 | CONTROL 106 | 37,540 | 27,510 | 80 | 67 | 1 | 3/4 | 1,200 | 1.0 | 150 | 12 | SCR MODULATING | 480 | 3 | 1 | PROPELLER | 1 | 95 | 23 | 25 | 480 | 3 | 17.1 | R-454B | 660 |

| NOTES: | 1. | COOLING ONLY MCA IS 11 AMPS. |
|--------|----|---|
| | 2. | COOLING ONLY MOCP IS 15. |
| | 3. | OWNER TO REWIRE ELECTRIC HEAT TO A SEPARATE ELEC CIRCUIT. |
| | 4. | PROVIDE MERV 8 FILTERS. |

| | | | | | | | | ••• | ···· (· · — / · | | ·· / | | | |
|--------|--------------------|---------------------------|----------------------|--------|-------------|----------------|--------------|---------------|------------------------|------|------|---------|--------------|--|
| Ν | MARK | SERVES | INDOOR UNIT TYPE | | 47F HEATING | 5F HEATING | | ELECTRIC | AL DATA | | SEER | REFRIG. | MANUFACTURER | |
| INDOOR | OUTDOOR | | | (BTUH) | (BTUH) | (BTUH) | MCA | MOCP | VOLTS | 0 | | | | |
| DFC-1 | DHP-1 | SERVER 105 | SUSPENDED HORIZONTAL | 28,200 | 32,000 | 12,800 | 22 | 35 | 208 | 1 | 18 | R-454B | TRANE | |
| DFC-2 | DHP-2 | SERVER 105 | SUSPENDED HORIZONTAL | 28,200 | 32,000 | 12,800 | 22 | 35 | 208 | 1 | 18 | R-454B | TRANE | |
| DFC-3 | DHP-3 | ELECTRIC 104 | WALL MOUNTED | 24,000 | 26,000 | 15,200 | 19 | 25 | 208 | 1 | 21 | R-410A | MITSUBISHI | |
| NOTES: | 1. PROVIDE MANUFA | CTURER'S WIRED THERMOST | NT. | | | 5. BACNET CARD | FOR REMOTE I | MONITORING BY | ALLERTON SYS | TEM. | | | | |
| | 2. PROVIDE CONDEN | ISATE PUMP. | | | | | | | | | | | | |
| | 3. PROVIDE LOW AME | BIENT KIT DOWN TO 0°F. | | | | | | | | | | | | |
| | 4. OUTDOOR UNIT PE | ROVIDES POWER TO INDOOR L | INIT. | | | | | | | | | | | |

| MARK | LOCATION | CFM |
|--------|-----------------------------------|-------|
| UH-1 | PLUMBING 115 | 350 |
| | | |
| NOTES: | 1. PROVIDE ADJUSTABLE DISCHARGE L | OUVER |
| | 2. PROVIDE WALL MOUNTED THERMOST | AT. |
| | 3. PROVIDE WALL BRACKET. | |

| MARK | SERVES | TYPE | DRIVE | FAN | DATA | | MOTOR DATA | | MAX SONES LEVEL | WEIGHT (LBS.) | MANUFAC |
|--------|---------------------------------|---------------|--------|-----|-------|-------|------------|---|-----------------|---------------|---------|
| | | | 2 | CFM | ESP | WATTS | VOLTS | | | | |
| EF-1 | MEN'S TOILET 112 | CEILING | DIRECT | 150 | 0.375 | 128 | 120 | 1 | 4 | 10 | GREENH |
| EF-2 | WOMEN'S TOILET 113 | CEILING | DIRECT | 150 | 0.375 | 128 | 120 | 1 | 4 | 10 | GREENH |
| EF-3 | JANITOR 114 | CEILING | DIRECT | 30 | 0.25 | 38 | 120 | 1 | 4 | 9 | GREENH |
| | | | | | | _ | | • | | | |
| NOTES: | 1. PROVIDE SPEED CONTROLLER. | | | | | | | | | | |
| | 2. PROVIDE PLUG STYLE ELECTRICA | L DISCONNECT. | | | | | | | | | |
| | 3. PROVIDE BACKDRAFT DAMPER. | | | | | | | | | | |

| | PROVIDE PLUG STYLE ELECTRICAL DISCONNECT. PROVIDE BACKDRAFT DAMPER. | | | | | | | | | | |
|--------|--|-----------------------|-------------------------|----------|--|--|--|--|--|--|--|
| | | AIR DEVICE | | | | | | | | | |
| MARK | | TYPE | DESCRIPTION | MA | | | | | | | |
| А | | SUPPLY | DIFFUSER | S | | | | | | | |
| А | | SUPPLY | DIFFUSER | S | | | | | | | |
| В | | RETURN | EGGCRATE GRILLE | ALU | | | | | | | |
| С | | TRANSFER | EGGCRATE GRILLE | ALU | | | | | | | |
| NOTES: | 1. | | OUNTING FRAME FOR GYP | | | | | | | | |
| | | | | | | | | | | | |
| | 2. | obd = optional balanc | CING DAMPER (OPPOSED BL | ADE OR F | | | | | | | |

3. PROVIDE SUPPLY DUCT SMOKE DETECTOR.5. BAG4. MOTORIZED OSA DAMPER5. BAG

PACKAGED COOLING/HEATING UNIT (DX COOLING W/ ELECTRIC HEAT)

| | 5. MOTORIZED OSA DAMPER | |
|--|-------------------------|--|
| | 6. BACNET INTERFACE | |
| | | |
| | | |
| | | |

DUCTLESS SPLIT SYSTEM (HEAT PUMP)

UNIT HEATERS - ELECTRIC

| | | | ••••• | | | | | |
|----|----|-----------------|-------|-----------|--------|---|--------------|--|
| ΓM | КW | FAN HP | | ELECTRICA | L DATA | | MANUFACTURER | |
| M | | | MCA | MOCP | VOLTS | | MANUFACTURER | |
| 60 | 3 | <u>1</u> 100 | 5 | 15 | 480 | 3 | QMARK | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

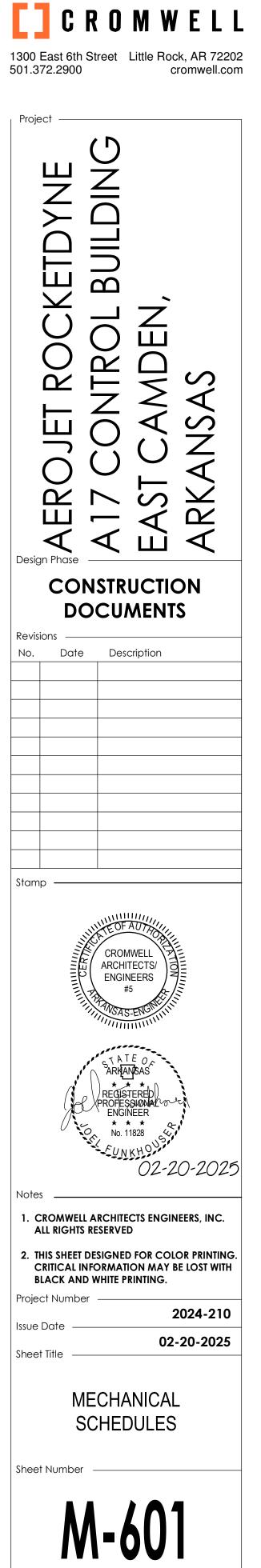
EXHAUST FAN

| MATERIAL | FINISH | MOUNTING | FACE SIZE (IN) | NECK SIZE (IN) | MAX FLOW (CFM) | MAX D.P. (IN. W.C.) | OBD | DIRECTIONAL BLADES | FILTE |
|----------|--------|----------|----------------|----------------|-------------------|------------------------|-----|-----------------------|-------|
| STEEL | WHITE | CEILING | 24X24 | 6 | 160 | 0.05 | YES | NO | NO |
| STEEL | WHITE | CEILING | 24X24 | 8 | 300 | 0.05 | YES | NO | NO |
| LUMINUM | WHITE | CEILING | 24X24 | 22X22 | 1,600 | 0.05 | NO | NO | NO |
| LUMINUM | WHITE | CEILING | 24X24 | 22X22 | 150 | 0.02 | NO | NO | NO |
| | | | | | | | | | |

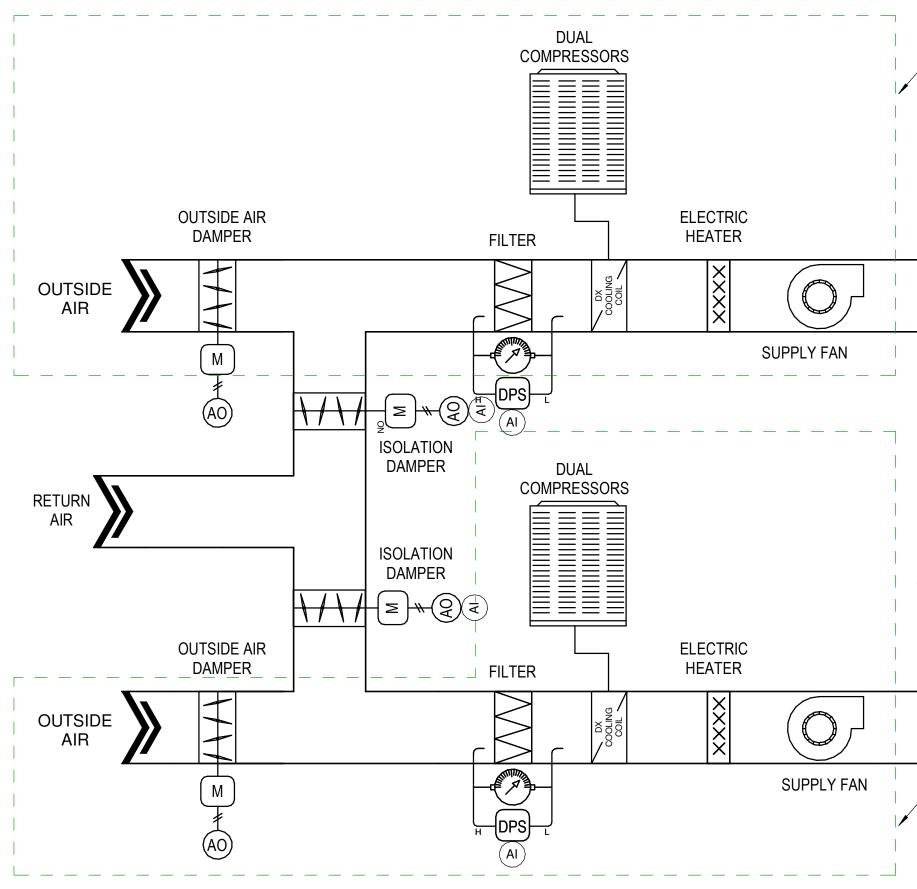
EILING LOCATIONS.

r Radial).

| REFRIG. | WEIGHT (LB) | MANUF | ACTURER | N | IODEL | REMARKS | | | |
|----------------|----------------------------------|------------------|--------------------------|-----------------------|---------|-----------|--|--|--|
| R-454B | 926 | TF | RANE | W | /HK060 | ALL NOTES | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| MAN | JFACTURER | | MODEL | | REMA | RKS | | | |
| | TRANE | | THK036 | | ALL NO | DTES | | | |
| | TRANE | | THK036 | | ALL NO | DTES | | | |
| | | | | | | | | | |
| | MC | DDEL | | | REMARKS | | | | |
| | DOOR AK30NL | | OUTDOOR PUZ-AH30NL | | | NOTES | | | |
| | AK30NL | | PUZ-AH30NL | | | NOTES | | | |
| | | | | | | | | | |
| MODE | L | | | REM | ARKS | | | | |
| MUH | | | | ALL N | OTES | | | | |
| | | | | | | | | | |
| CTURER | | MODE | _ | | REMAR | KS | | | |
| IHECK IHECK | | SP-B15 SP-B15 | 0 | | ALL NO | TES | | | |
| IHECK | | SP-B50 | J | | ALL NO | IES | | | |
| | | | | | | | | | |
| ER | MANUFACTU | JRER | MODEL | | | | | | |
| | TITUS TITUS TITUS TITUS | | TMS TMS 50F 50F | S ALL NOTES ALL NOTES | | | | | |
| | | | | | | | | | |







SEQUENCE OF OPERATIONS

BUILDING AUTOMATION SYSTEM:

THE UNIT WILL BE CONTROLLED BY THE ALLERTON BUILDING AUTOMATION SYSTEM (BAS).

SPACE SETPOINTS:

COOL OCCUPIED / UNOCCUPIED: 75/78 F

HEAT OCCUPIED / UNOCCUPIED: 70/67 F DEHUMIDIFICATION OCCUPIED / UNOCCUPIED: 50%/50% RELATIVE HUMIDITY

LEAD/LAG CONTROLS:

THE UNITS ARE SIZED FOR 100% REDUNDANCY. IF THE LEAD UNIT'S COOLING SUPPLY AIR TEMPERATURE EXCEEDS 65 F FOR MORE THAN 10 MINUTES, AND ALARM WILL BE GENERATED, THE LEAD UNIT WILL BE SHUT OFF AND THE LAG UNIT WILL BE ACTIVATED. THE LEAD AND LAG UNIT WILL BE ALTERNATED EVERY 7 DAYS. THE TWO UNITS WILL NOT RUN AT THE SAME TIME.

RETURN/SUPPLY ISOLATION DAMPERS: THE RETURN AND SUPPLY DUCT ISOLATION DAMPER WILL OPEN FOR THE UNIT THAT IS RUNNING. THE RETURN AND SUPPLY DUCT ISOLATION DAMPER WILL CLOSE FOR THE UNIT THAT IS NOT RUNNING.

AIRFLOW CONTROL, OCCUPIED HOURS:

THE FAN WILL RUN CONSTANTLY AND THE OUTSIDE AIR DAMPER WILL OPEN.

AIRFLOW CONTROL, UNOCCUPIED HOURS:

THE FAN WILL RUN INTERMITTENTLY AS REQUIRED UPON A CALL FOR COOLING, HEATING, OR DEHUMIDIFICATION AND THE OUTSIDE AIR DAMPER WILL OPEN WHEN THE FAN IS RUNNING (CLOSE WITH THE FAN IS NOT RUNNING).

COOLING MODE: WILL BE ACTIVATED.

HEATING MODE: HEATER WILL BE ACTIVATED AT 100%.

DEHUMIDIFICATION MODE: TEMPERATURE.

FILTER STATUS:

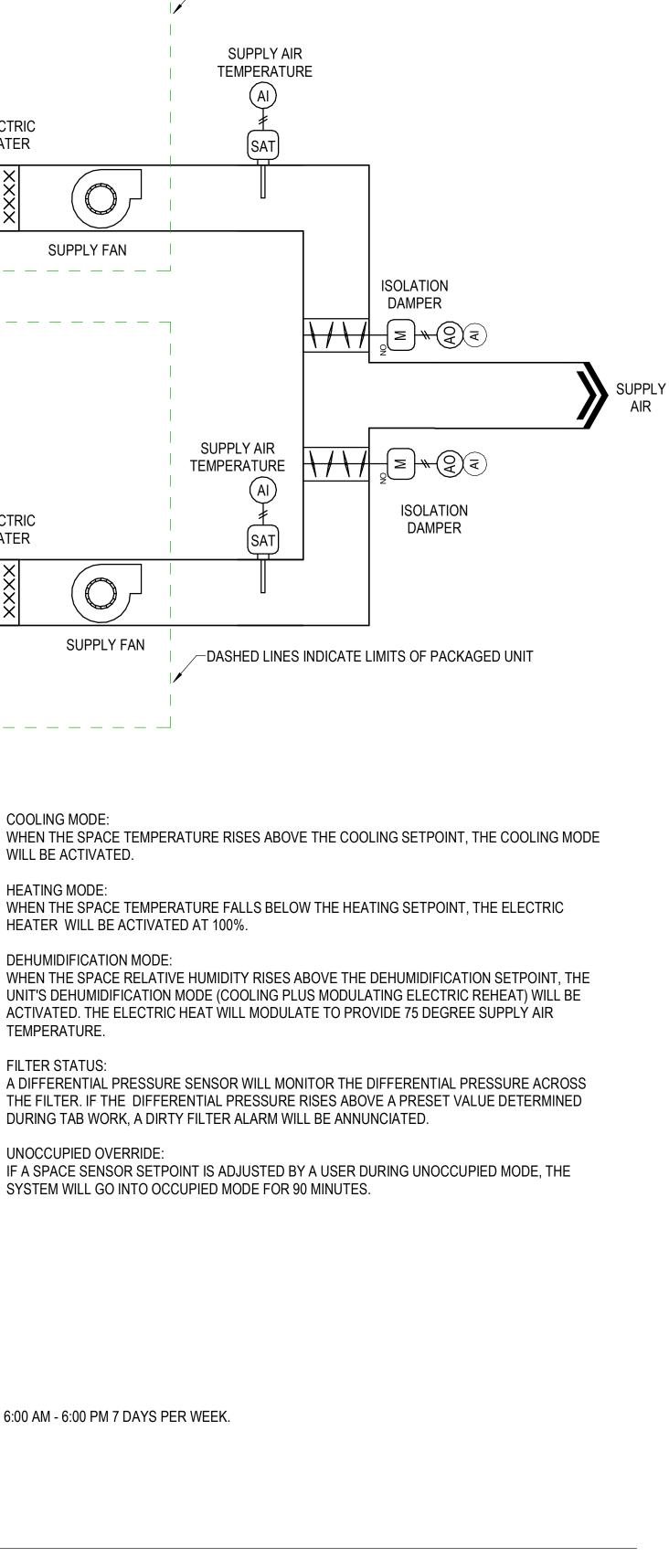
UNOCCUPIED OVERRIDE:

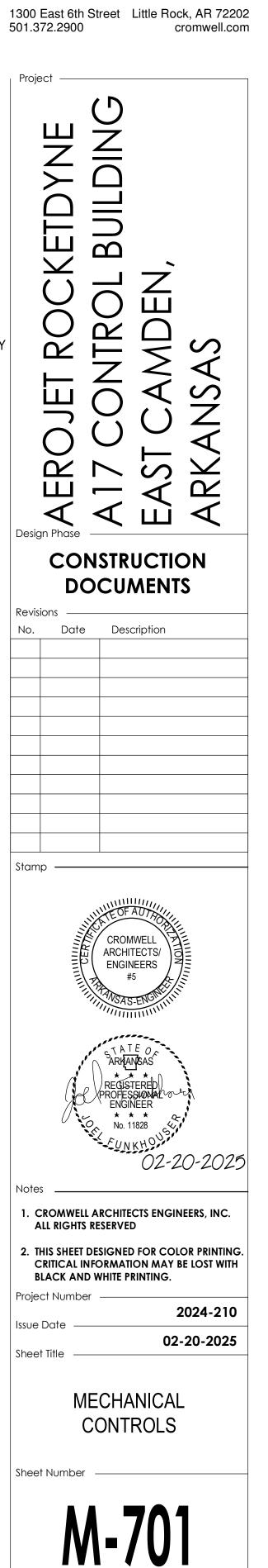
OCCUPIED HOURS

OCCUPIED HOURS ARE 6:00 AM - 6:00 PM 7 DAYS PER WEEK.

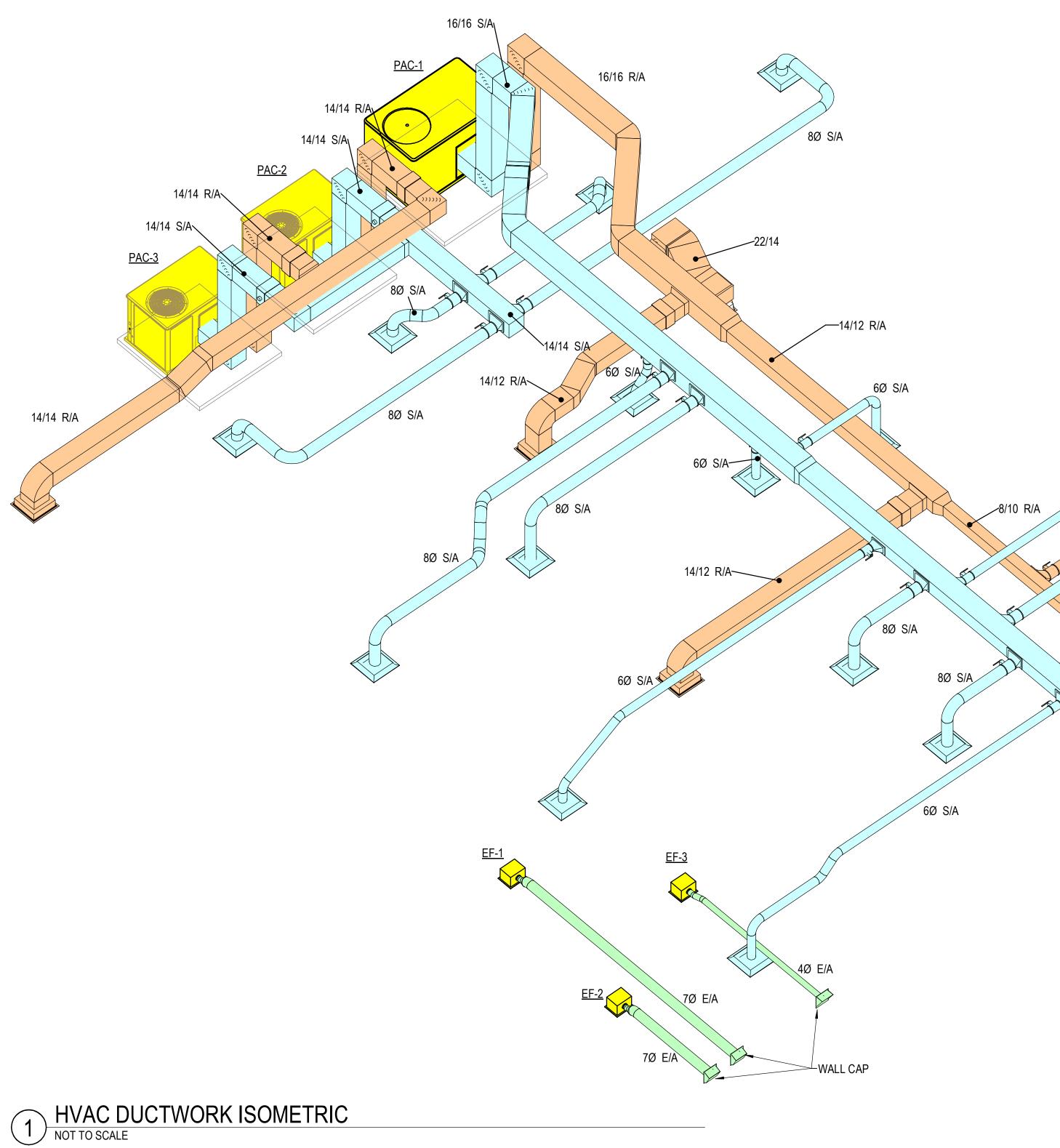
CONTROLS - PACKAGED HVAC UNITS PAC-2 AND PAC-3

-DASHED LINES INDICATE LIMITS OF PACKAGED UNIT



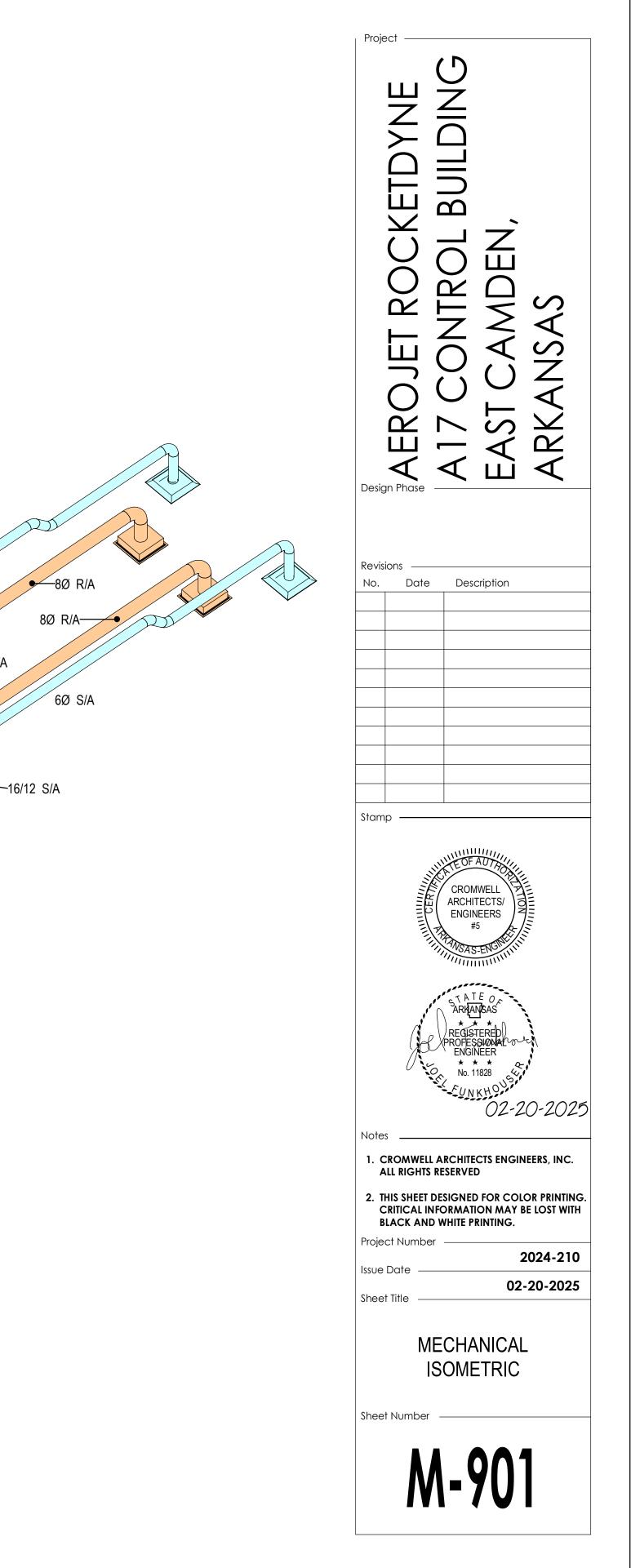


CROMWELL



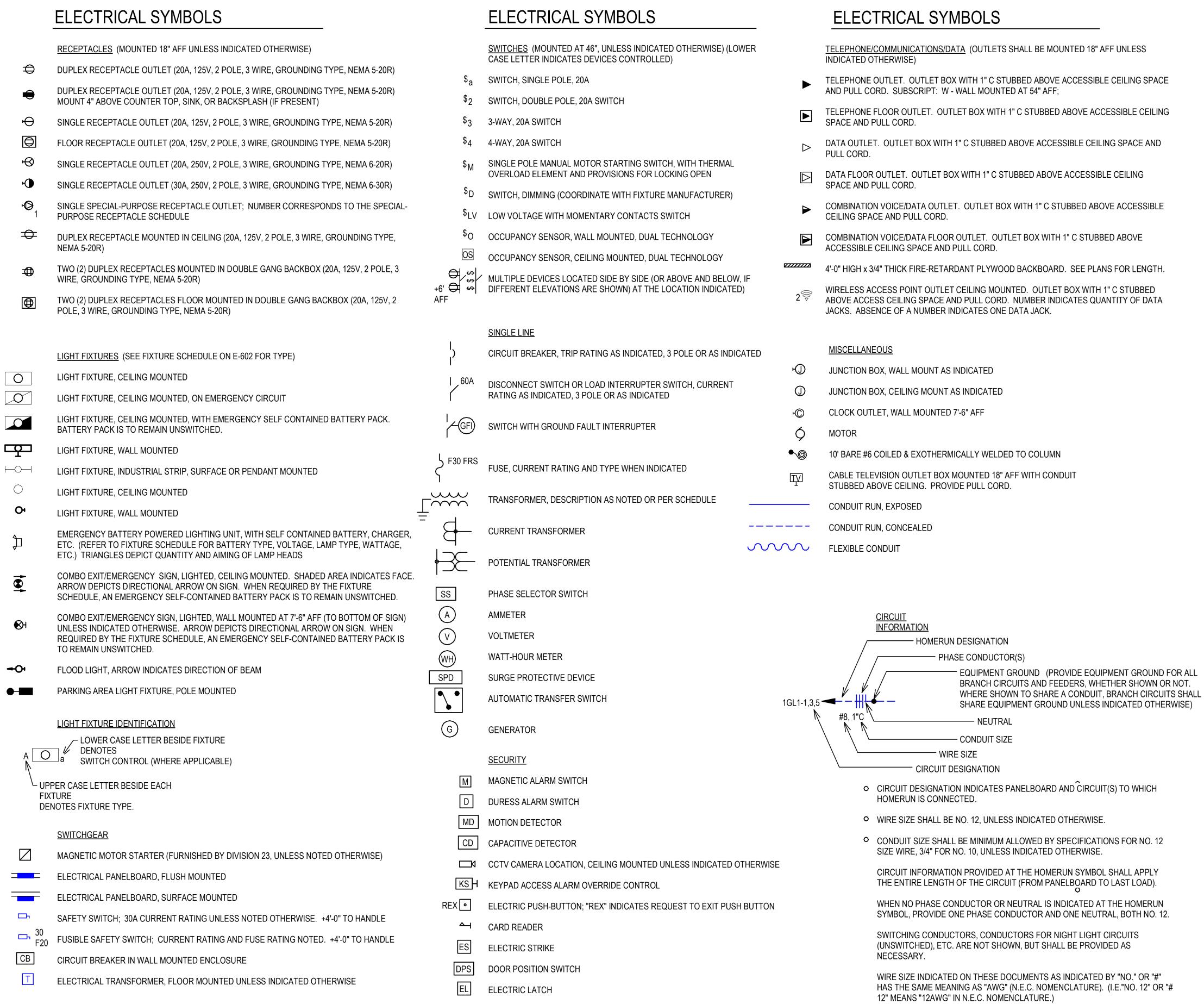






6Ø S/A

28Ø S/A



| ī | MAGNETIC ALARM SW |
|----|--------------------|
|) | DURESS ALARM SWIT |
| 1D | MOTION DETECTOR |
| D | CAPACITIVE DETECTO |
| Ŋ | CCTV CAMERA LOCAT |
| 5H | KEYPAD ACCESS ALA |
| | ELECTRIC PUSH-BUT |
| 4 | CARD READER |
| 5 | ELECTRIC STRIKE |
| S | DOOR POSITION SWIT |
|] | ELECTRIC LATCH |

| D AT 46", UNLESS INDICATED OTHERWISE) (LOWER | |
|--|--|
| TES DEVICES CONTROLLED) | |
| | |

| RIP RATING AS INDICATED, 3 POLE OR AS INDIC | CATED | MISC |
|--|------------|--------------|
| | ٢Ū | JUNC |
| H OR LOAD INTERRUPTER SWITCH, CURRENT D, 3 POLE OR AS INDICATED | \bigcirc | JUNC |
| | ч© | CLO |
| ND FAULT INTERRUPTER | Q | MOT |
| | •@ | 10' B |
| TING AND TYPE WHEN INDICATED | ΠŢ | CABI Stue |
| CRIPTION AS NOTED OR PER SCHEDULE | | CON |
| RMER | | CON |
| | \sim | FLEX |
| | | |

ABBREVIATIONS:

AFF = ABOVE FINISHED FLOOR AFG = ABOVE FINISHED GRADE AFL = ABOVE FINISHED LANDING GFI = GROUND FAULT INTERRUPTER IG = ISOLATED GROUND **UIO = UNLESS INDICATED OTHERWISE** WP = WEATHERPROOF CONSTRUCTION OF/OI = OWNER FURNISHED / OWNER INSTALLED CF/CI = CONTRACTOR FURNISHED / CONTRACTOR INSTALLED OF/CI = OWNER FURNISHED / CONTRACTOR INSTALLED TYP = TYPICAL NIC = NOT IN CONTRACT

GENERAL SYMBOLS NOTES:

1. ALL SYMBOLS MAY NOT BE USED.

2. MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR OR GRADE TO THE CENTER LINE OF THE OUTLET, DEVICE, ETC. UNLESS INDICATED OTHERWISE.

3. LARGE AMPACITY CIRCUIT DESIGNATION EXAMPLE: 4 SETS OF 3#500, #250, #1/0G, 4"C MEANS IN EACH OF FOUR 4" CONDUITS INSTALL THREE 500 kCM CONDUCTORS, ONE 250 kCM NEUTRAL AND ONE #1/0 GROUND

COLOR LEGEND:

EXISTING TO REMAIN

DEMOLISH

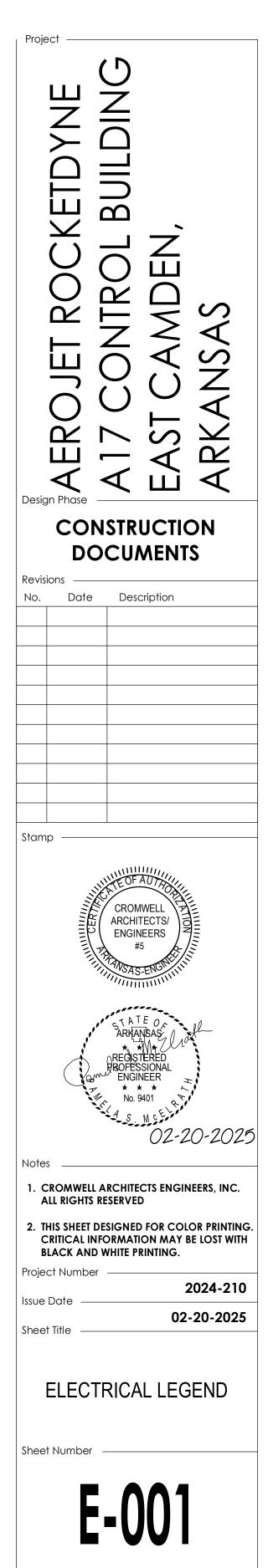
NEW CONSTRUCTION

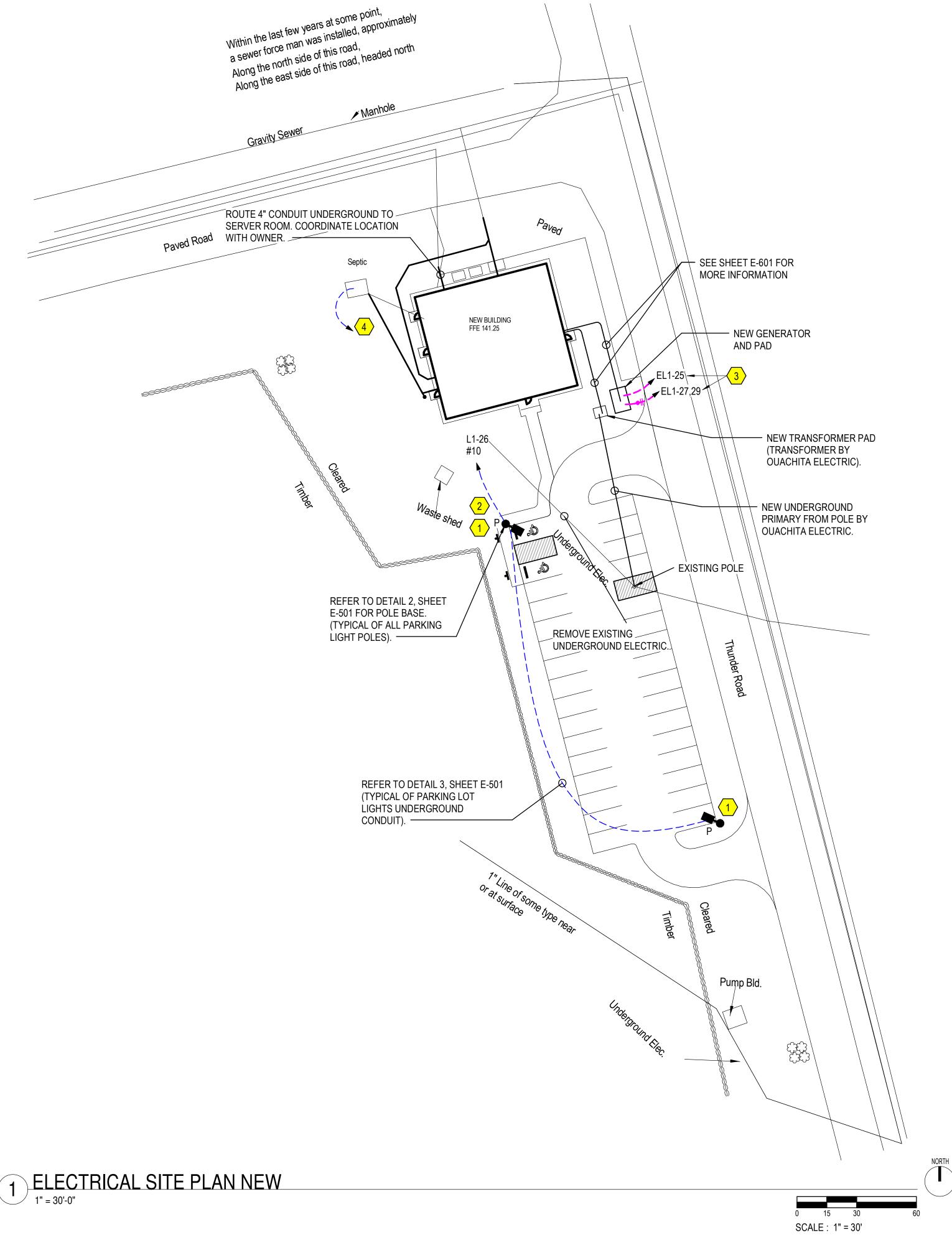
LINESTYLE LEGEND:

----- DEMOLISH EXISTING TO REMAIN NEW

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- A. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO EXCAVATION. ANY DAMAGE TO UTILITIES SHALL BE REPAIRED AT CONTRACTORS EXPENSE.
- CONDUIT ROUTING IS FOR ILLUSTRATION PURPOSES ONLY. VERIFY Β. AND COORDINATE WITH OTHER UTILITIES AND DISCIPLINES FOR PROPER ROUTING TO AVOID CONFLICTS.
- C.
- E. REFER TO DETAIL 2, SHEET E-502 FOR TRANSFORMER PAD DETAIL.

KEYED NOTES:





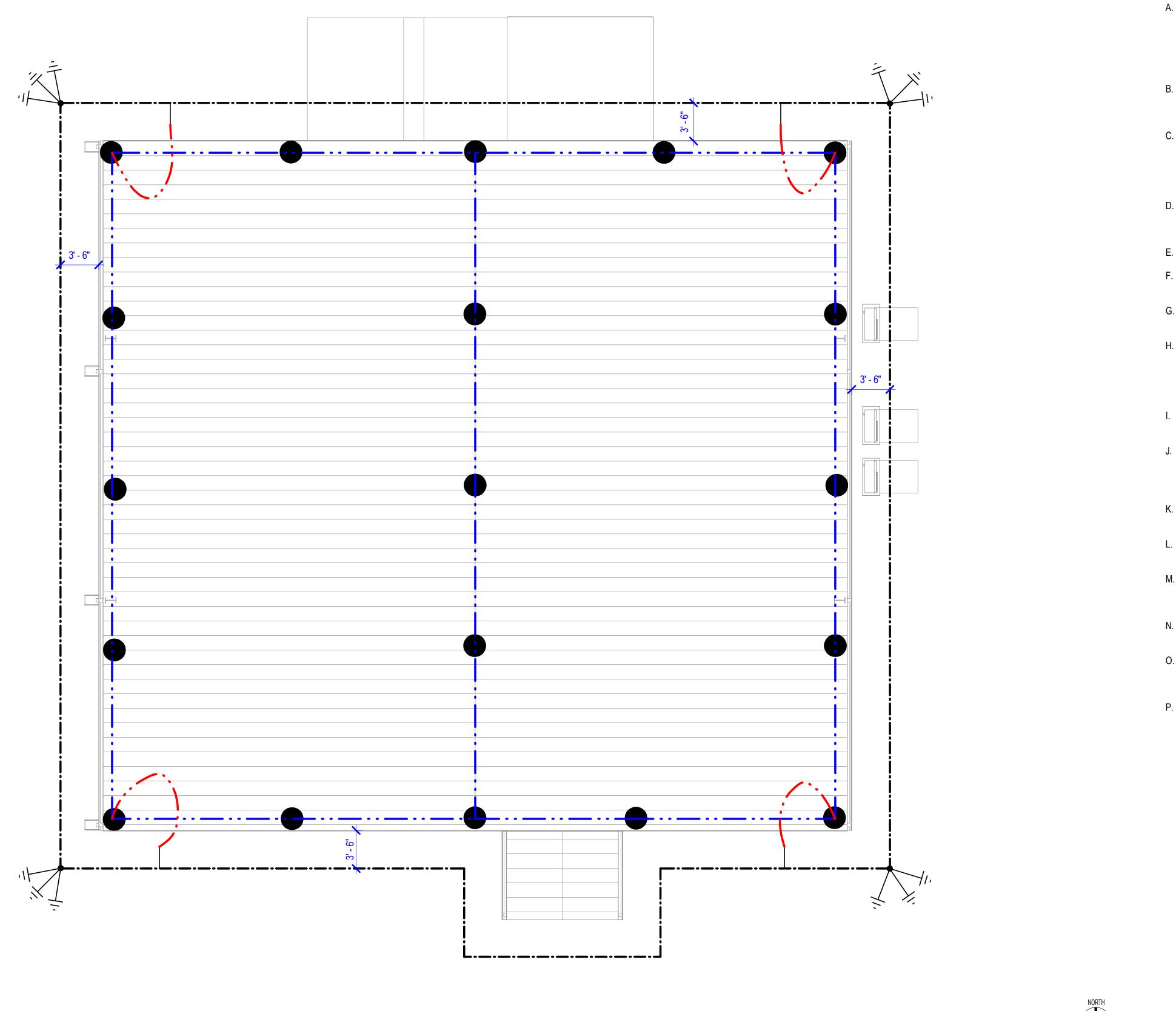
 $\langle 3 \rangle$

- VERIFY POWER CONNECTION REQUIREMENTS FOR BLOCK HEATER AND BATTERY CHARGER WITH GENERATOR MANUFACTURER.
- $\langle 4 \rangle$ POWER EXISTING LIFT STATION PUMP. PROVIDE POWER FROM NEW ELECTRICAL ROOM. FIELD VERIFY VOLTAGE REQUIREMENTS AND BREAKER SIZE AND TYPE AND WIRE SIZE. COORDINATE WITH OWNER.

- CONTROL SITE LIGHTING THROUGH LIGHTING CONTACTOR PANEL.
- D. REFER TO DETAIL 4, SHEET E-501 FOR GENERATOR PAD DETAIL.

- SEE LIGHT FIXTURE SCHEDULE, SHEET E-602 FOR FIXTURE TYPE P.
- MOUNT CAMERA ON POLE AND TIE INTO LIGHTING CIRCUIT L1-26.

| | treet Little Rock, AR 72202 cromwell.com |
|--|---|
| Project INACKETDYNE Design Phase | AI/ CONIROL BUILDING EAST CAMDEN, ARKANSAS |
| | STRUCTION CUMENTS |
| No. Date | Description |
| | |
| Stamp | |
| | CROMWELL ARCHITECTS/ ENGINEERS #5 WSAS-ENGINE REGISTERED PROFESSIONAL ENGINEER No. 9401 A S. M. CE OZ-20-2025 |
| ALL RIGHTS RI 2. THIS SHEET DE CRITICAL INFO | ESIGNED FOR COLOR PRINTING. ORMATION MAY BE LOST WITH WHITE PRINTING. 2024-210 |
| Sheet Title | 02-20-2025 CTRICAL SITE PLAN |
| Sheet Number | |
| E | S101 |

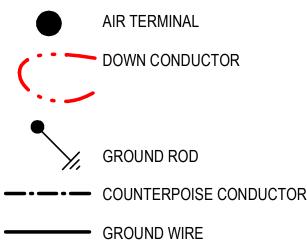


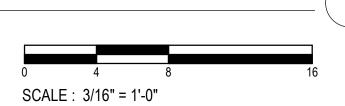


GENERAL NOTES:

- Α. MASTER LABEL.
- CABLE.
- EXCEED SPACING OF 25'-0".
- DEGREES.
- Ε.
- F. CODE(S)/STANDARD(S).
- G. SYSTEMS AS REQUIRED BY CODE(S)/STANDARD(S).
- LOCATIONS.
- LEAST 10'-0".
- Κ.
- L. ACTUAL CONDITIONS.
- ANTENNA SYSTEMS. MAKE ALL CONNECTIONS.
- OF BUILDING. PAINT TO MATCH ADJACENT SURFACE.
- О. EXISTING JOINTS WHERE APPLICABLE.
- P. DISTURBED. COORDINATE WITH AEROJET.

LIGHTNING PROTECTION LEGEND:





LIGHTNING PROTECTION DESIGN IS TO SHOW INTENT ONLY. PROVIDE A COMPLETE SYSTEM DESIGN BY A LIGHTNING PROTECTION CONTRACTOR BASED ON PLANS AND SPECIFICATIONS. PROVIDE UL MASTER LABEL ON SYSTEM. RETEST EXISTING SYSTEM AS REQUIRED TO OBTAIN MASTER LABEL. ADD SERVICE ENTRANCE SURGE SUPPRESSION OR OTHER DEVICES TO EXISTING EQUIPMENT AS REQUIRED TO ACHIEVE

ALL MATERIALS SHALL BE CLASS I, UNDERWRITERS LABORATORIES LISTED AND LABELED. LABELS TO BE ON ALL AIR TERMINALS AND AT 10' INTERVALS ON CONDUCTOR

LOCATE AIR TERMINALS AS SHOWN AND AS REQUIRED BY NFPA 780. ENSURE THAT ALL AIR TERMINALS ARE WITHIN 2'-0" OF OUTSIDE BUILDING EDGE, OUTSIDE CORNER. ENSURE AIR TERMINAL PROJECTS 10" ABOVE OBJECT PROTECTED AND THAT SPACING DOES NOT EXCEED 20'-0". AIR TERMINALS 2'-0" ABOVE OBJECT PROTECTED SHALL NOT

MAINTAIN DOWNWARD OR HORIZONTAL COURSING OF MAIN CONDUCTOR CABLE AND ENSURE THAT ALL BENDS HAVE AT LEAST AN 8" RADIUS AND DO NOT EXCEED 90

SUPPORT ALL EXPOSED CONDUCTOR CABLE AT 3'-0" ON CENTER MAXIMUM.

BOND TO WATER SERVICE AND OTHER PIPING SYSTEMS AS REQUIRED BY

INTERCONNECT LIGHTNING PROTECTION GROUND WITH OTHER BUILDING GROUND

BOND METAL BODIES ON ROOF THAT ARE OUTSIDE THE ZONE OF PROTECTION THAT ARE SUBJECT TO A DIRECT LIGHTNING STRIKE OR WHICH EXCEED THE HEIGHT OF ADJACENT AIR TERMINALS WITH MAIN SIZE CONDUCTOR CABLE. TYPICAL METAL BODIES INCLUDE BUT ARE NOT LIMITED TO: EXHAUST FANS, VENTS, HANDRAILS, AIR HANDLING UNITS, LADDERS, ANTENNAS, COOLING TOWERS, SKYLIGHTS, ETC.

ACTUAL JOBSITE CONDITIONS MAY ALTER SOME AIR TERMINAL AND GROUNDING

INSTALL GROUND ELECTRODES AS SHOWN AND AS REQUIRED BY CODE(S)/STANDARD(S) BUT IN NO INSTANCE SHALL THEY BE LESS THAN 1'-0" BELOW GRADE AND 2'-0" FROM FOUNDATION WALL. ELECTRODES SHALL PENETRATE EARTH AT

STRUCTURAL STEEL MAY BE USED AS A DOWN CONDUCTOR WHERE PERMITTED BY NFPA 780. MAKE ADDITIONAL CONNECTIONS AS REQUIRED BY NFPA 780.

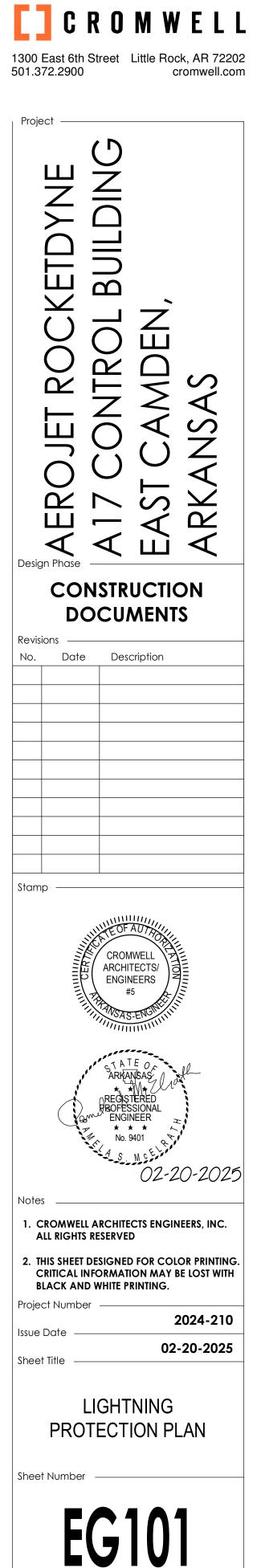
ADJUST LOCATIONS IN FIELD AS REQUIRED TO COMPLY WITH NFPA 780 BASED ON

PROVIDE SURGE PROTECTION DEVICES MEETING THE REQUIREMENTS OF NFPA 780 FOR ALL POWER SERVICE ENTRANCES AND CONDUCTIVE COMMUNICATIONS SYSTEMS, AND

N. PROTECT DOWN CONDUCTORS IN CONDUIT, ENTIRE VERTICAL ROUTING ON EXTERIOR

REPAIR AREAS DISTURBED FOR GROUND ROD INSTALLATION TO EXISTING OR BETTER CONDITIONS AND GRADE PRIOR TO INSTALLATION. CUT AND REPAIR CONCRETE AT

FIBER OPTIC DATA LINE BURIED BELOW NEW BUILDING FOOTPRINT. LINE MUST NOT BE





1 LIGHTING PLAN 3/16" = 1'-0"

GENERAL NOTES:

- R OTHERWISE INDICATED.
- C. WHERE ACCESSIBLE.
- AUTOMATIC-OFF.
- DETAIL.
- DISCIPLINES.



REQUIREMENTS.

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

A. ADJUST THE QUANTITY AND LOCATIONS OF OCCUPANCY SENSORS AS NECESSARY FOR FULL ROOM COVERAGE (MAXIMUM OF 500 SQ. FT COVERAGE PER SENSOR). LOCATE SENSORS SUCH THAT THE DISTANCE BETWEEN SENSORS AND HVAC REGISTERS IS NO LESS THAN THE MINIMUM DISTANCE RECOMMENDED BY THE SENSOR MANUFACTURER.

CONNECT THE OCCUPANCY SENSORS TO CONTROL ALL NORMAL POWER LIGHT FIXTURES IN THE ROOM IN WHICH THEY ARE INSTALLED UNLESS

LOCATED POWER PACKS FOR OCCUPANCY SENSORS ABOVE CEILING

D. SET OCCUPANCY SENSORS FOR A 15-MINUTE TIME DELAY.

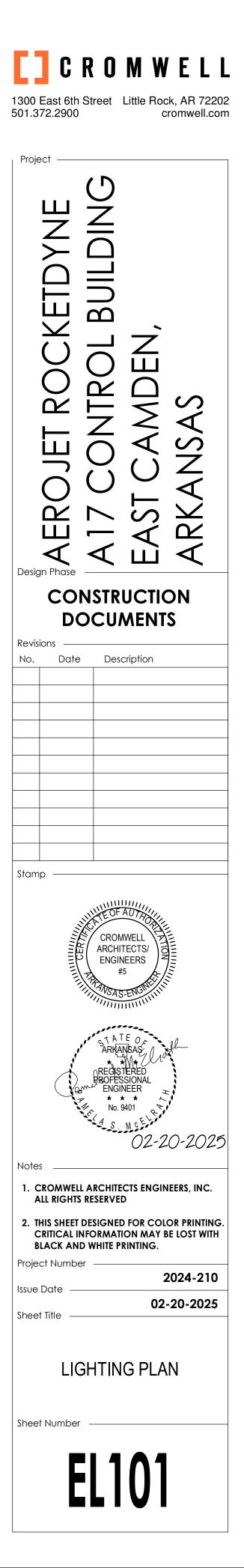
E. SET ALL WALL-MOUNT OCCUPANCY SENESORS TO MANUAL-ON /

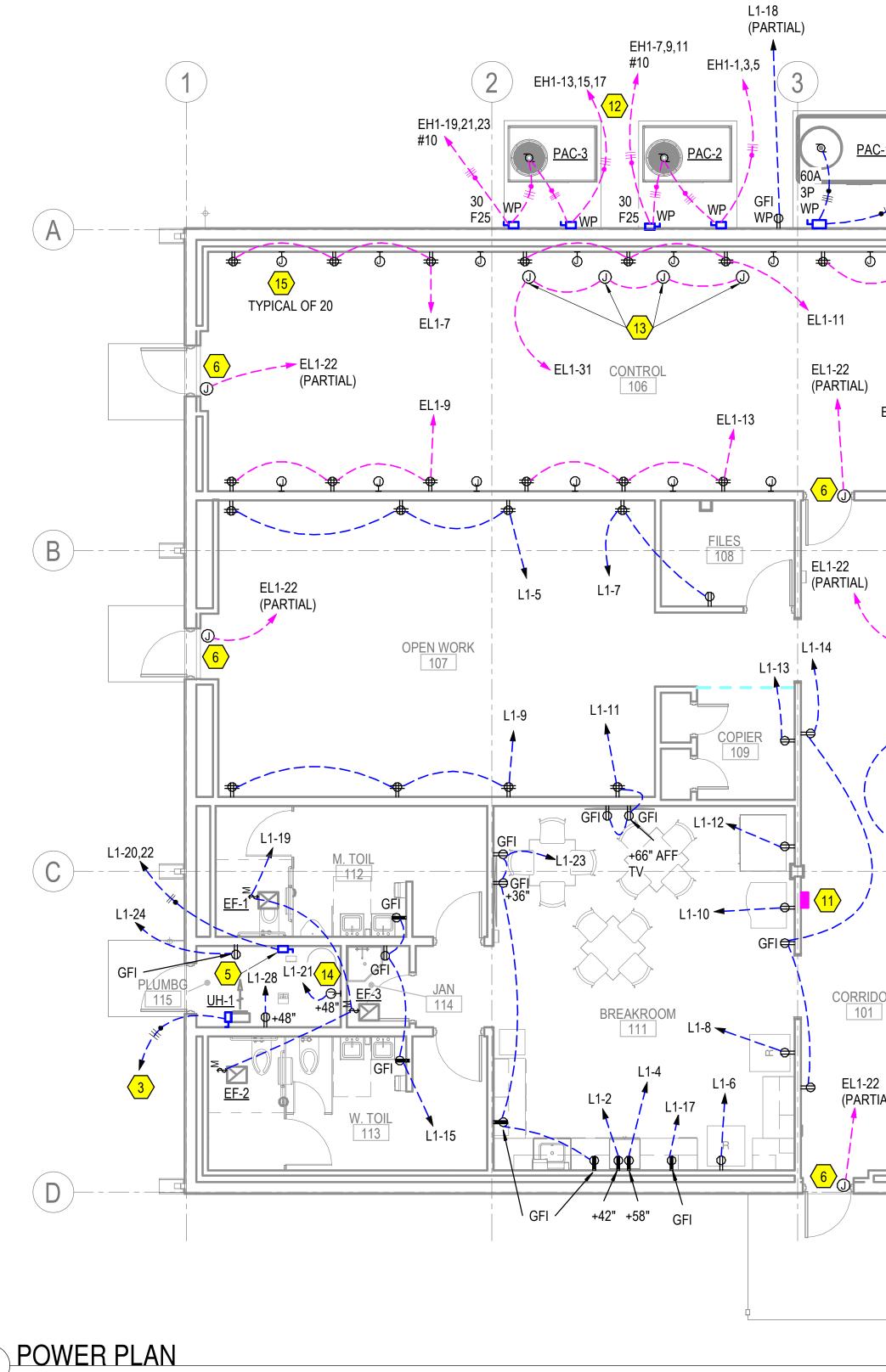
F. MAKE ALL FINAL SENSITIVITY AND RANGE ADJUSTMENTS ON OCCUPANCY SENSORS PER MANUFACTURER'S INSTRUCTIONS.

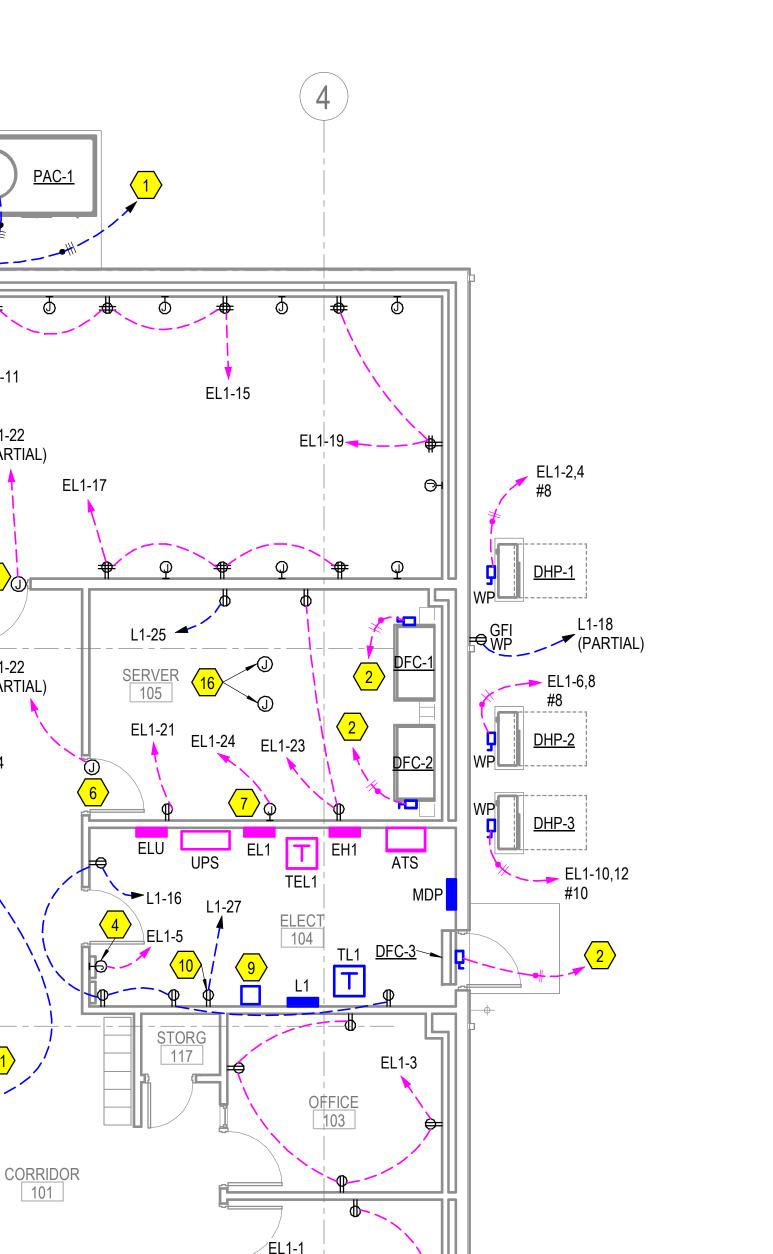
G. REFER TO DETAIL 1, SHEET E-501 FOR EXTERIOR LIGHT CONTACTOR

H. MOUNT TYPE S LIGHTS AT 8'-0" AFF. COORDINATE PLACEMENT WITH OTHER

1 DUSK TO DAWN PHOTOCELL, MOUNT AND AIM PHOTOCELL PER MANUFACTURER







102

GFI WP

L1-18

(PARTIAL)

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(PARTIAL)

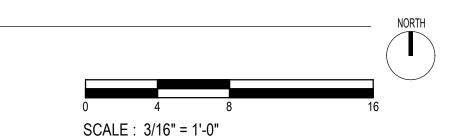
<u>STORG</u> 116

GENERAL NOTES:

- Α. RECOMMENDATIONS.

KEYED NOTES:

- 2 LOCATION WITH INSTALLER. $\langle 4 \rangle$
- $\langle 5 \rangle$ WITH PLUMBING.
- WITH INSTALLER
- $\langle 7 \rangle$
- $\langle 8 \rangle$
- $\langle 9 \rangle$
- $\langle 10 \rangle$ EXACT LOCATION WITH INSTALLER.
- $\langle 11 \rangle$
- **(12)** PAC-3.
- $\langle 13 \rangle$
- $\langle 14 \rangle$ INSTALLER.
- $\langle 15 \rangle$ CONSULTING.
- $\langle 16 \rangle$



EL1-26

CONTRACTOR SHALL WIRE EQUIPMENT PER MANUFACTURER INSTRUCTIONS. ALL WIRING AND CONNECTIONS SHALL BE PER MANUFACTURERS

COORDINATE ALL CONDUIT LOCATIONS WITH OTHER DISCIPLINES.

POWER INDICATED ON PLANS IS BASIS OF DESIGN. IF DIFFERENT EQUIPMENT IS USED CONTRACTOR SHALL PROVIDE POWER PER MAUNFACTURER'S RECOMMENDATIONS AT NO EXTRA CHARGE.

REFER TO SINGLE LINE FOR MECHANICAL EQUIPMENT CIRCUIT INFORMATION.

OUTDOOR POWERS INDOOR UNIT. COORDINATE WITH MECHANICAL.

DISCONNECT POWERS ELECTRIC UNIT HEATER UH-1. SEE SINGLE LINE DIAGRAM FOR MECHANICAL EQUIPMENT CIRCUIT INFORMATION. COORDINATE EXACT

JUNCTION BOX FOR FACP. COORDINATE EXACT LOCATION WITH INSTALLER.

DISCONNECT POWERS EWH-1 WATER HEATER. COORDINATE EXACT LOCATION

JUNCTION BOX FOR POWER CONNECTION TO DOOR HARDWARE/ACCESS CONTROL SYSTEM. MOUNT ABOVE DOOR. COORDINATE EXACT REQUIREMENTS

JUNCTION BOX FOR ACCESS CONTROL PANEL POWER. COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH INSTALLER.

JUNCTION BOX FOR CCTV. COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH INSTALLER.

FUSE CABINET FOR PAC UNITS. COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH INSTALLER.

RECEPTACLE FOR ALLERTON DDC PANEL. COORDINATE MOUNTING HEIGHT AND

REMOTE GENERATOR ANNUNCIATOR PANEL. ROUTE 1" CONDUIT TO GENERATOR LOCATION. USE MANUFACTURER RECOMMENED CABLE TYPE AND SIZE.

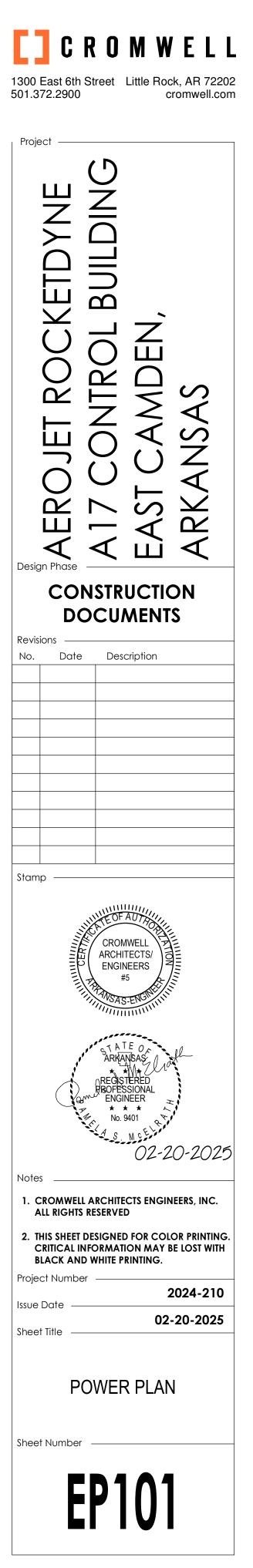
PROVIDE A TOTAL OF 6 15A FUSES FOR OWNER'S MODIFICATIONS TO PAC-2 AND

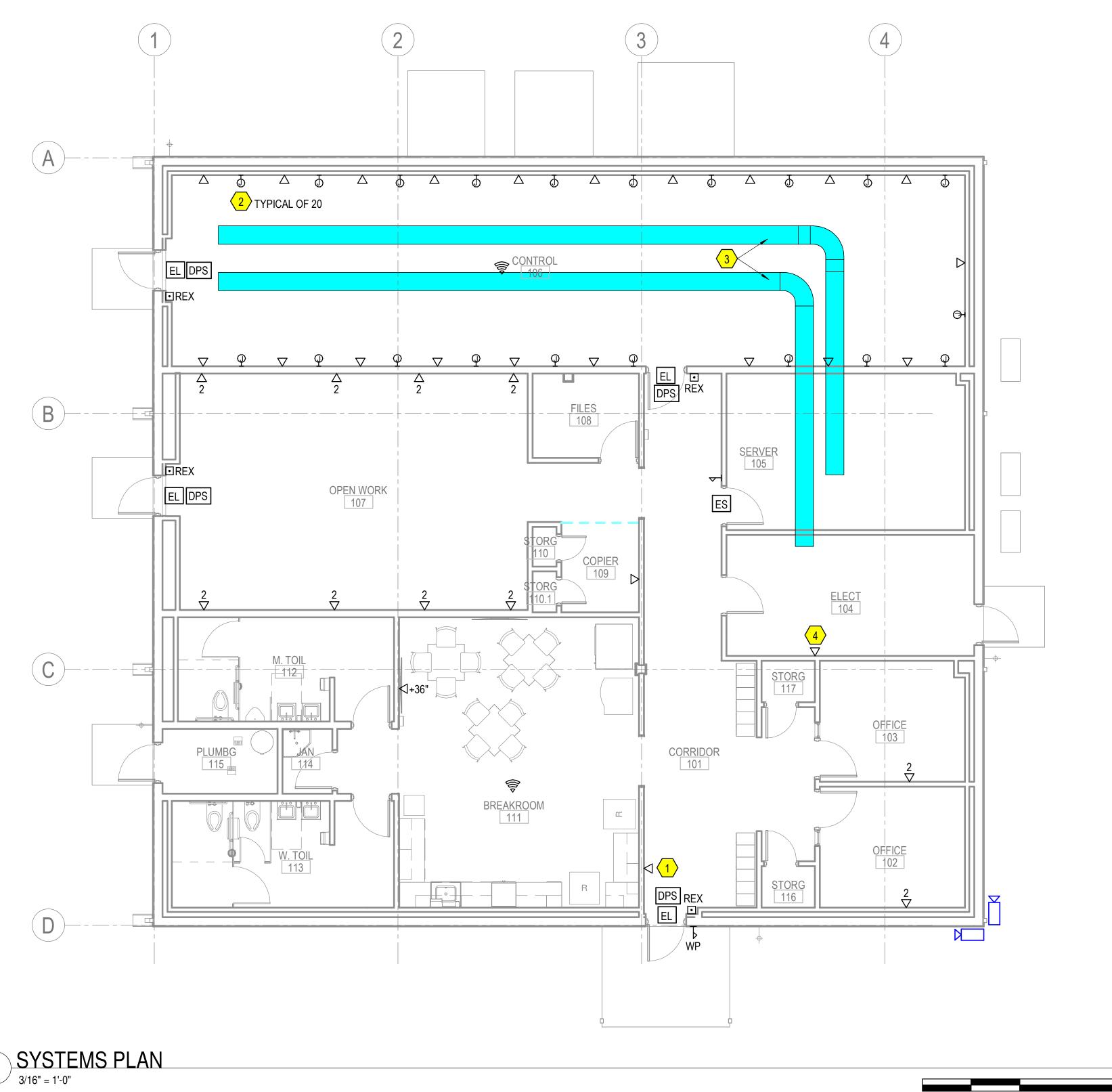
JUNCTION BOX FOR POWER CONNECTION TO MOTORIZED ISOLATION DAMPER. COORDINATE EXACT LOCATION WITH MECHANICAL.

JUNCTION BOX TO POWER HWRP-1. COORDINATE EXACT LOCATION WITH

JUNCTION BOX FOR POWER CONNECTION IN PLC CABINET. PROVIDE BACKBOX AND 1" CONDUIT TO ABOVE CEILING. COORDINATE WITH OWNER AND R.L.

POWER CONNECTION FOR R.L. CONSULTING SERVER RACK. COORDINATE LOCATION WITH R.L. CONSULTING.





〔1〕

<u>GENERAL NOTES:</u>

NORTH

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

C. PROVIDE DATA CABLING AND PATCH PANELS FOR AEROJET NETWORK. ROUTE CABLING TO AEROJET DATA RACK. COORDINATE LOCATION WITH OWNER.

KEYED NOTES:

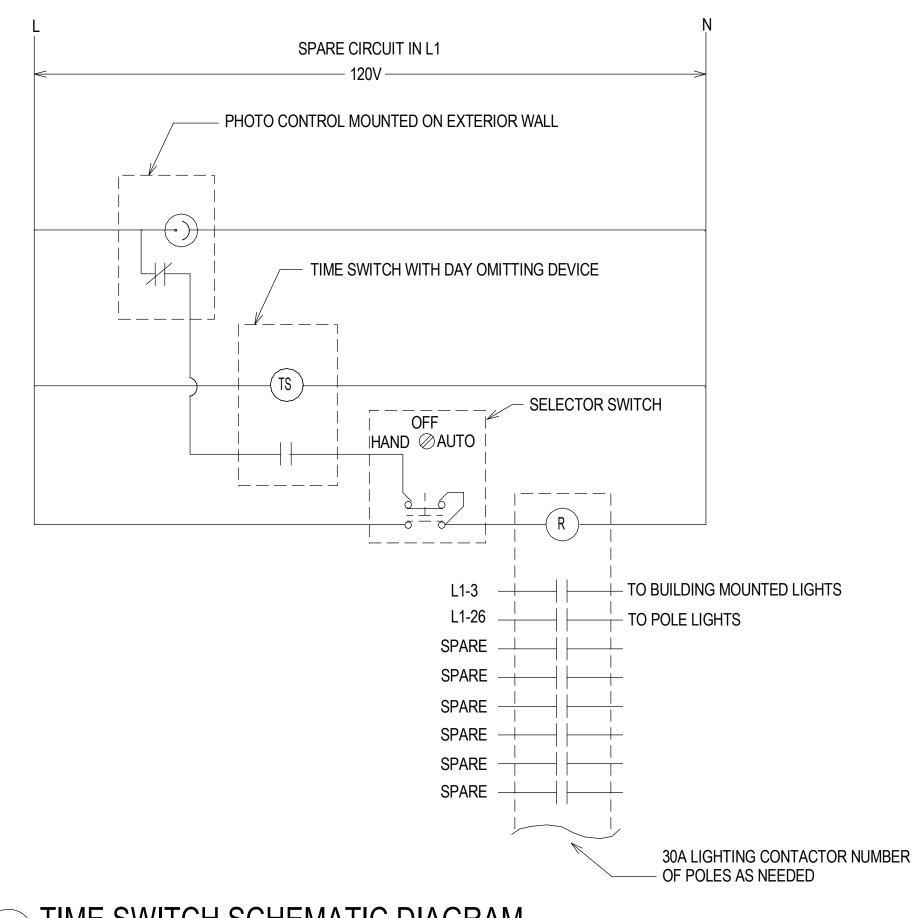
- DATA DROP FOR KEY BOX. COORDINATE EXACT LOCATION WITH OWNER. JUNCTION BOX FOR DATA CONNECTION IN PLC CABINET. PROVIDE BACKBOX AND 1" CONDUIT TO ABOVE CEILING. COORDINATE WITH OWNER AND R.L. CONSULTING. $\langle 2 \rangle$
- 3 CABLE TRAYS PROVIDED AND INSTALLED BY OTHERS. SHOWN FOR COORDINATION PURPOSES.
- 4 PROVIDE DATA CONNECTION TO ALLERTON DDC PANEL. COORDINATE WITH MECHANICAL.

- A. REFER TO DETAIL 1, SHEET E-502 FOR ACCESS CONTROL DOOR DETAIL. COORDINATE ALL REQUIREMENTS WITH OWNER.
- B. DATA RACKS BY OWNER AND R.L. CONSULTING. COORDINATE LOCATIONS WITH OWNER.

| 501.372.2900 | cromwell.com |
|--------------------------------|---|
| Project | |
| AEROJET ROCKETDYNE | a I / Conirol Building East Camden, Arkansas |
| Design Phase – | |
| | STRUCTION CUMENTS |
| Revisions | ~ UMENIS |
| No. Date | Description |
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| Rom | CROMWELL ARCHITECTS/ ENGINEERS #5 SAS-ENSINITION SAS-ENSINITION SAS-ENSINITION REGISTERED PROFESSIONAL ENGINEER * * * * No. 9401 |
| Notes | |
| 1. CROMWELL A ALL RIGHTS RE | ARCHITECTS ENGINEERS, INC. ESERVED |
| CRITICAL INFO | ESIGNED FOR COLOR PRINTING. ORMATION MAY BE LOST WITH WHITE PRINTING. |
| Project Number | 2024-210 |
| Issue Date Sheet Title | 02-20-2025 |
| | TEMS PLAN |
| Sheet Number | T101 |

C R O M W E L L

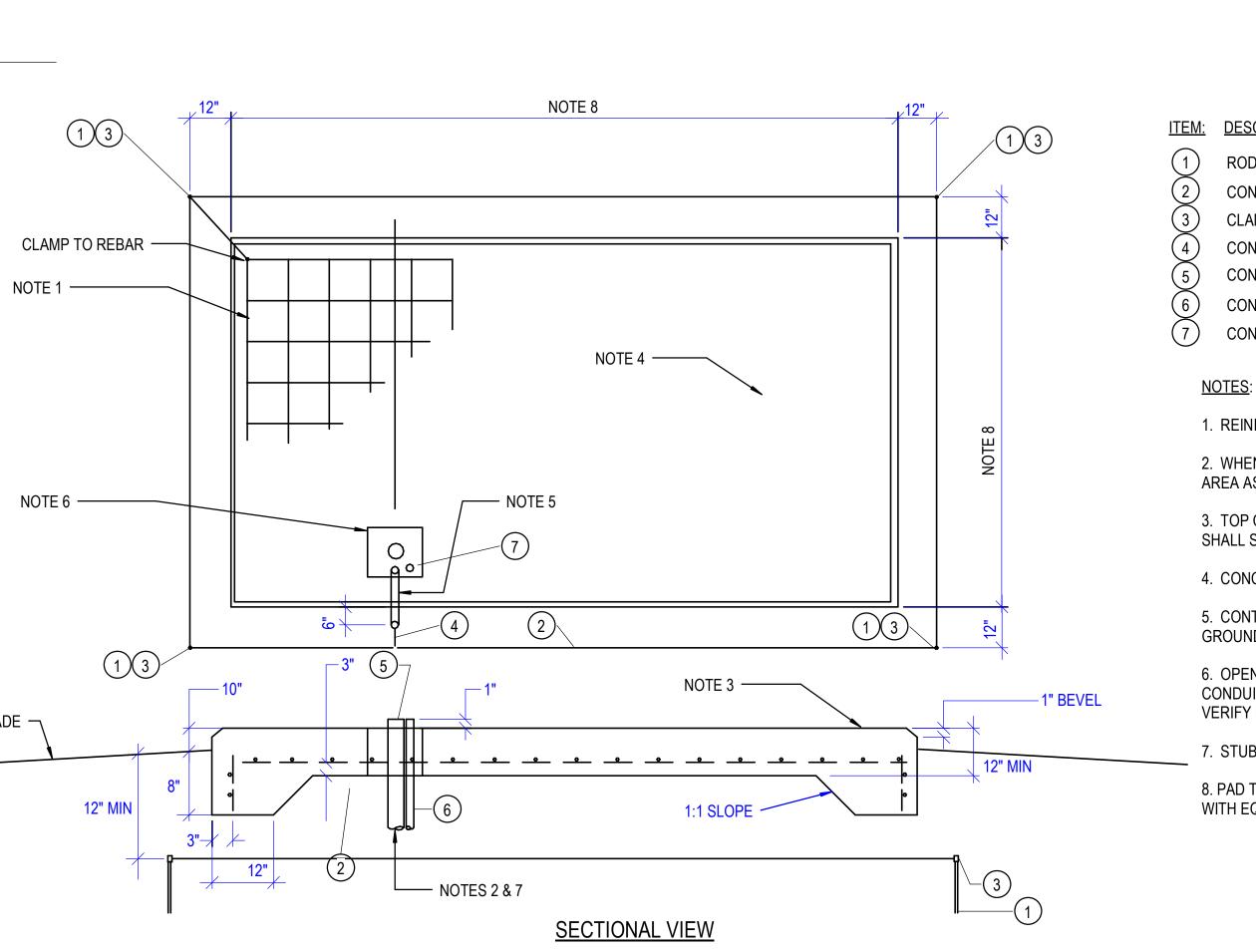
1300 East 6th Street Little Rock, AR 72202

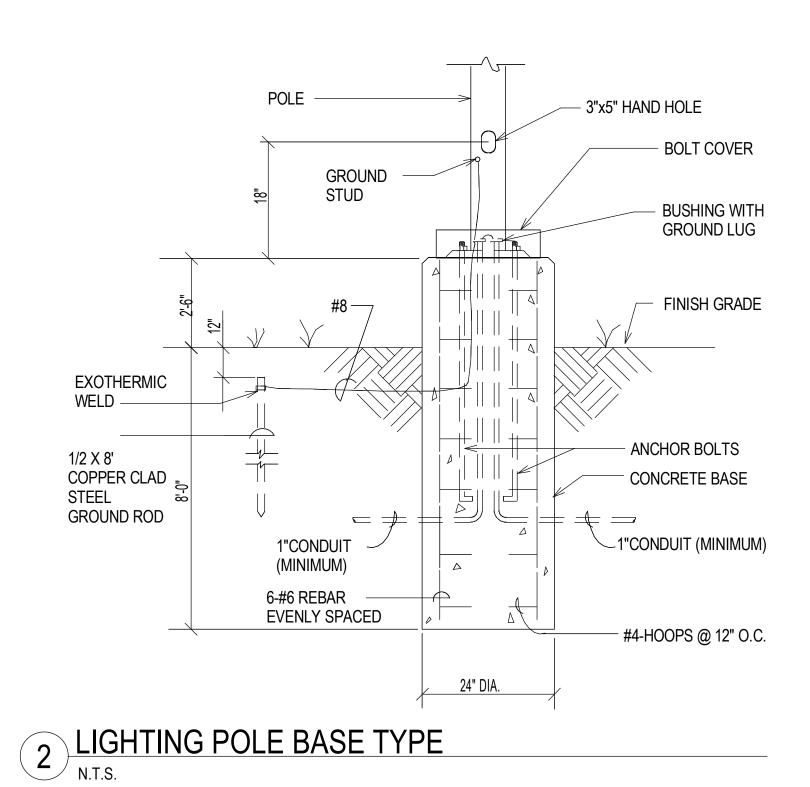




GRADE · • · BACKFILL PER \leftarrow SPECIFICATIONS 1" RGS TO PARKING Þ AREA LIGHTS GRADE – 3 TYPICAL UNDERGROUND RACEWAY



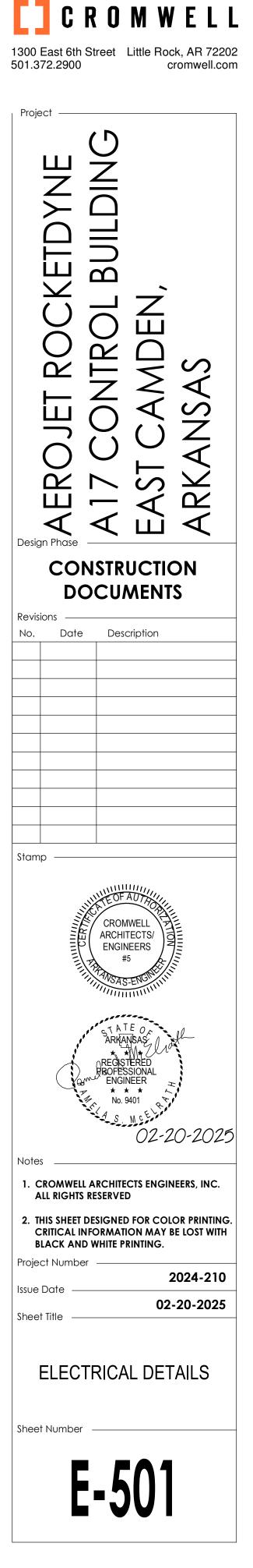


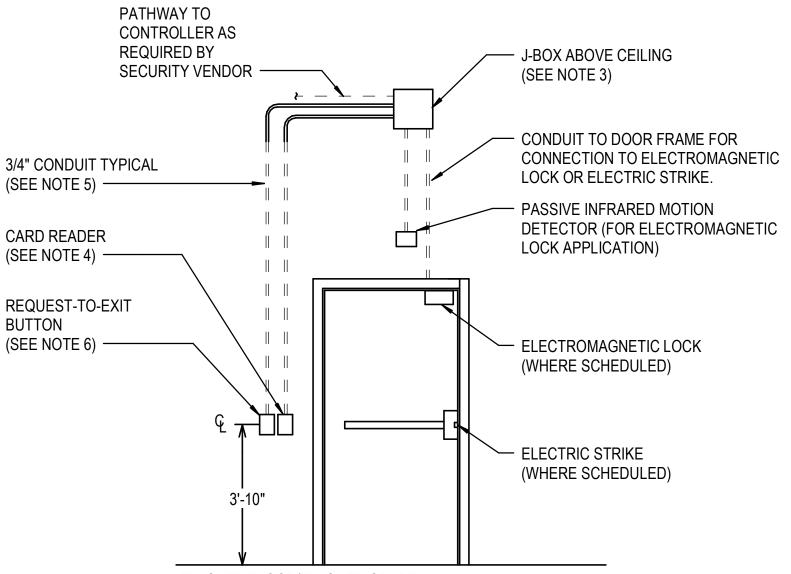


ITEM: DESCRIPTION

- ROD, GROUND, 3/4" X 10'-0"
- CONDUCTOR, COPPER #2/0 BARE
- CLAMP GROUND ROD
- CONNECTOR, COMPRESSION #2/0 COPPER
- CONDUIT BUSHING
- CONDUIT, POWER
- CONDUIT, CONTROLS

- 1. REINFORCING #5 BARS 12" C TO C BOTH WAYS.
- 2. WHEN INSTALLING CONDUIT DISTURB GROUND IN FOUNDATION AREA AS LITTLE AS POSSIBLE.
- 3. TOP OF FOUNDATION TO BE SMOOTH AND LEVEL. FINAL GRADE SHALL SLOPE AWAY FROM PAD.
- 4. CONCRETE SHALL BE 2500 PSI AT 28 DAYS.
- 5. CONTRACTOR TO FURNISH 1" CONDUIT UNDER PAD FOR GROUND WIRE .
- 6. OPENING SHALL BE PROVIDED FOR CONDUIT AS SHOWN. CONDUIT SHALL NOT BE CONCRETED IN. CONTRACTOR SHALL VERIFY DIMESNTIONS OF OPENING AND REQUIRED LOCATIONS.
- 7. STUB OUT 2'-0" BEYOND PAD.
- 8. PAD TO BE 4'-0" GREATER THAN GENERATOR HOUSING. VERIFY WITH EQUIPMENT MANUFACTURER.





FINISHED FLOOR/FINISHED GRADE

CARD ACCESS NOTES: (ELECTROMAGNETIC LOCK OR ELECTRIC STRIKE APPLICATIONS)

1. PROVIDE JUNCTION BOXES, BACK BOXES AND CONDUITS WITH PULL WIRE FOR ACCESS CONTROL SYSTEM AT INDICATED DOORS. COORDINATE REQUIREMENTS AT EACH DOOR WITH OWNER'S SECURITY VENDOR, PRIOR TO ROUGH-IN.

2. ALL J-BOXES SHALL BE ACCESSIBLE.

3. MOUNT J-BOX ABOVE CEILING ON SECURE SIDE.

4. INSTALL CARD READER AT 3'-10" ABOVE FINISHED FLOOR ON UN-SECURE SIDE OF DOOR. INSTALL IN MULLION, WHERE REQUIRED.

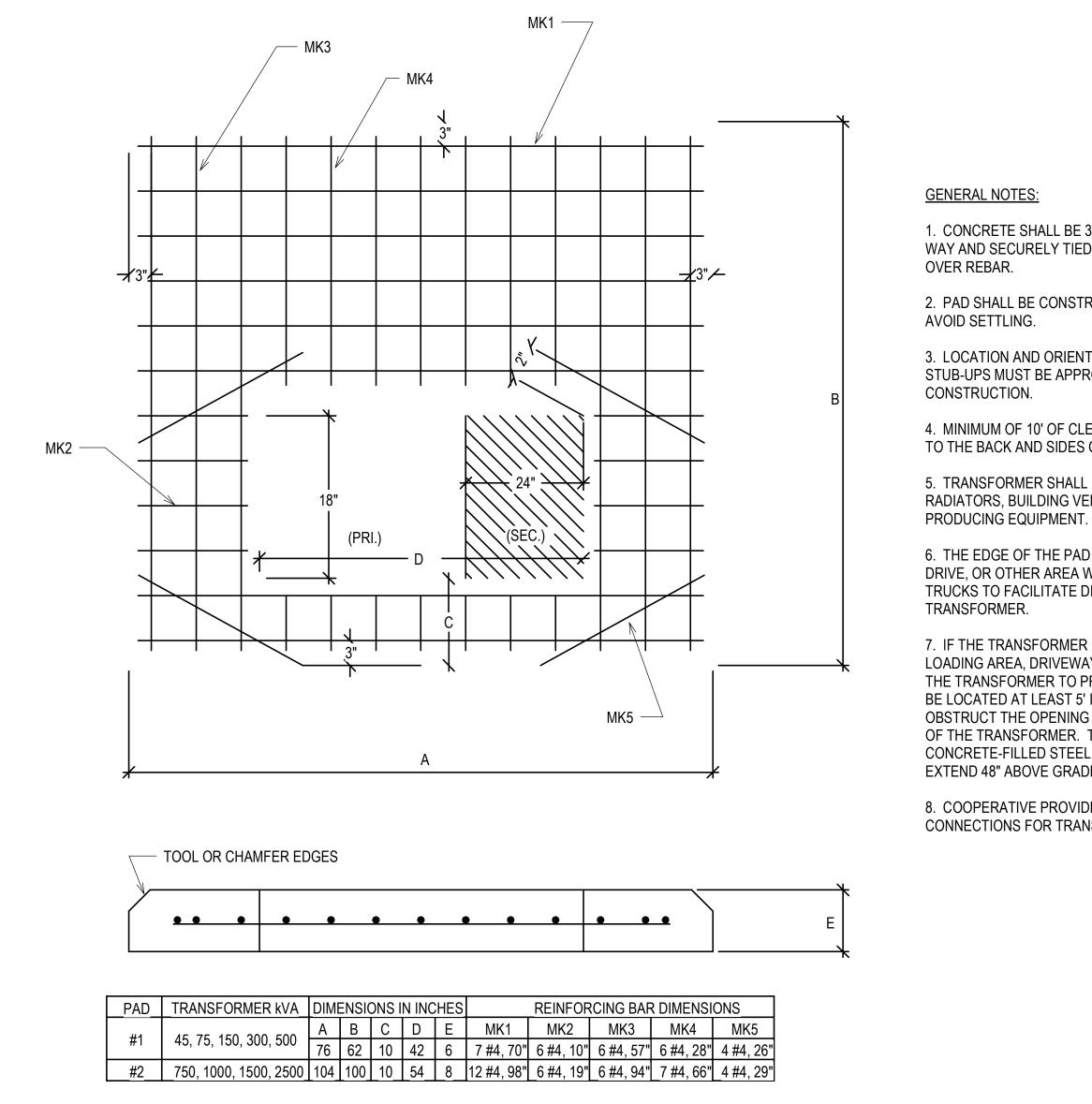
5. ALL CONDUIT TO BE 3/4" UNLESS SPECIFIED OTHERWISE. CONCEAL CONDUIT IN STUD WALL LOCATIONS. FLEXIBLE CONDUIT MAY BE USED IF NECESSARY IN EXISTING WALLS. SURFACE MOUNT ON CMU AND IMP WALLS. REFER TO SYSTEMS GENERAL NOTE H ON ET001 FOR MORE MOUNTING INFORMATION.

6. PROVIDE REQUEST-TO-EXIT BUTTON (FOR ELECTROMAGNETIC LOCK APPLICATION) MOUNTED 3'-10" ABOVE FINISHED FLOOR ON SECURE SIDE OF DOOR.

7. PROVIDE CONDUIT FOR DOOR POSITION SWITCH.

8. COORDINATE WITH ARCHITECTURAL ELEVATIONS AND DOOR SCHEDULES FOR ACTUAL DOOR APPEARANCE AND LOCATIONS.









1. CONCRETE SHALL BE 3,000 PSI; REBAR SHALL BE SET 6" O.C. EACH WAY AND SECURELY TIED TOGETHER; MINIMUM 2" CONCRETE COVER

2. PAD SHALL BE CONSTRUCTED ON LEVEL, WELL COMPACTED SOIL TO

3. LOCATION AND ORIENTATION OF PAD, AND PLACEMENT OF CONDUIT STUB-UPS MUST BE APPROVED BY COOPERATIVE PRIOR TO

4. MINIMUM OF 10' OF CLEAR AREA TO THE FRONT AND 3' OF CLEAR AREA TO THE BACK AND SIDES OF THE TRANSFORMER REQUIRED.

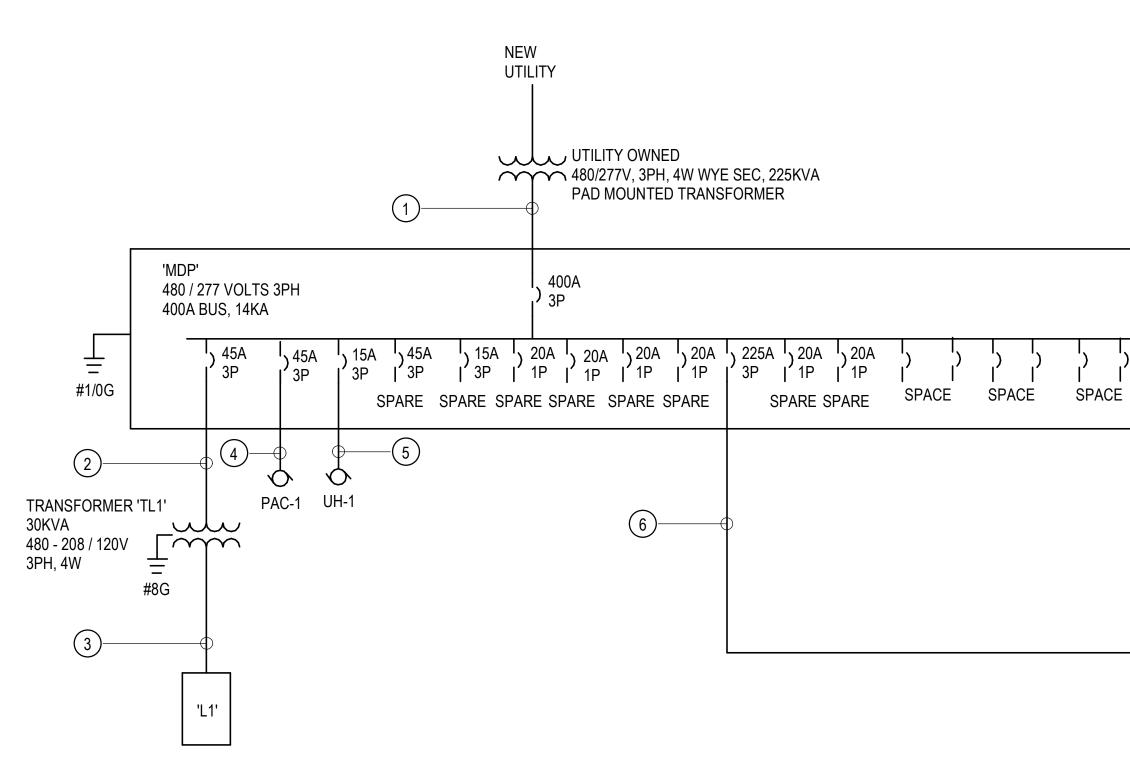
5. TRANSFORMER SHALL NOT BE LOCATED IN THE EXHAUST AREA OF RADIATORS, BUILDING VENTS, AC CONDENSERS, OR OTHER HEAT PRODUCING EQUIPMENT.

6. THE EDGE OF THE PAD MUST BE WITHIN 10' OF A PARKING AREA, DRIVE, OR OTHER AREA WHICH IS READILY ACCESSIBLE TO HEAVY TRUCKS TO FACILITATE DELIVERY AND MAINTENANCE OF THE

7. IF THE TRANSFORMER IS LOCATED WITHIN 5' OF A PARKING LOT, LOADING AREA, DRIVEWAY, ETC., STEEL POSTS MUST BE SET AROUND THE TRANSFORMER TO PROTECT IT FROM TRAFFIC. THE POSTS MUST BE LOCATED AT LEAST 5' IN FRONT OF THE PAD SO THEY DO NOT OBSTRUCT THE OPENING OF THE ACCESS DOORS LOCATED ON FRONT OF THE TRANSFORMER. THE POSTS MUST BE AT LEAST 8" DIAMETER CONCRETE-FILLED STEEL PIPE, SET IN CONCRETE TO A DEPTH OF 30", EXTEND 48" ABOVE GRADE, AND SPACED NO MORE THAN 5' APART.

8. COOPERATIVE PROVIDES AND INSTALLS GROUND RODS AND CONNECTIONS FOR TRANSFORMER AT INSTALLATION.

| JET ROCKETDYNE CONTROL BUILDING CAMDEN, NSAS |
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| AST AST RKA |
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| DOCUMENTS Revisions |
| No. Date Description |
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| CROMWELL ARCHITECTS/ ENGINEERS #5 #5 #5 #5 #5 #5 #5 #6 REGISTERED REOFESSIONAL ENGINEER |
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| ELECTRICAL DETAILS |
| Sheet Number |

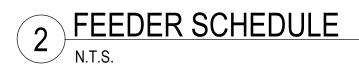




| | | FEEDER | SCHEDU | LE | | |
|--------|------|----------------------------------|------------------------------------|-----------------------------------|------------------------------|-------|
| NUMBER | SETS | PHASE CONDUCTORS (PER SET) | NEUTRAL CONDUCTORS (PER SET) | GROUND CONDUCTORS (PER SET) | CONDUIT SIZE (PER SET) | NOTES |
| | 2 | 3#3/0 | 1#3/0 | - | 2.5" | |
| 2 | 1 | 3#6 | - | 1#10 | 1" | |
| 3 | 1 | 3#2 | 1#2 | 1#6 | 1.5" | |
| 4 | 1 | 3#6 | - | 1#10 | 1" | |
| 5 | 1 | 3#12 | - | 1#12 | 0.5" | |
| 6 | 1 | 3#4/0 | 1#4/0 | 1#4 | 2.5" | |
| 7 | 1 | 3#2 | - | 1#6 | 1.25" | |
| 8 | 2 | 3#1/0 | 1#1/0 | 1#4 | 2" | |
| 9 | 1 | 3#1/0 | 1#1/0 | 1#6 | 2" | |

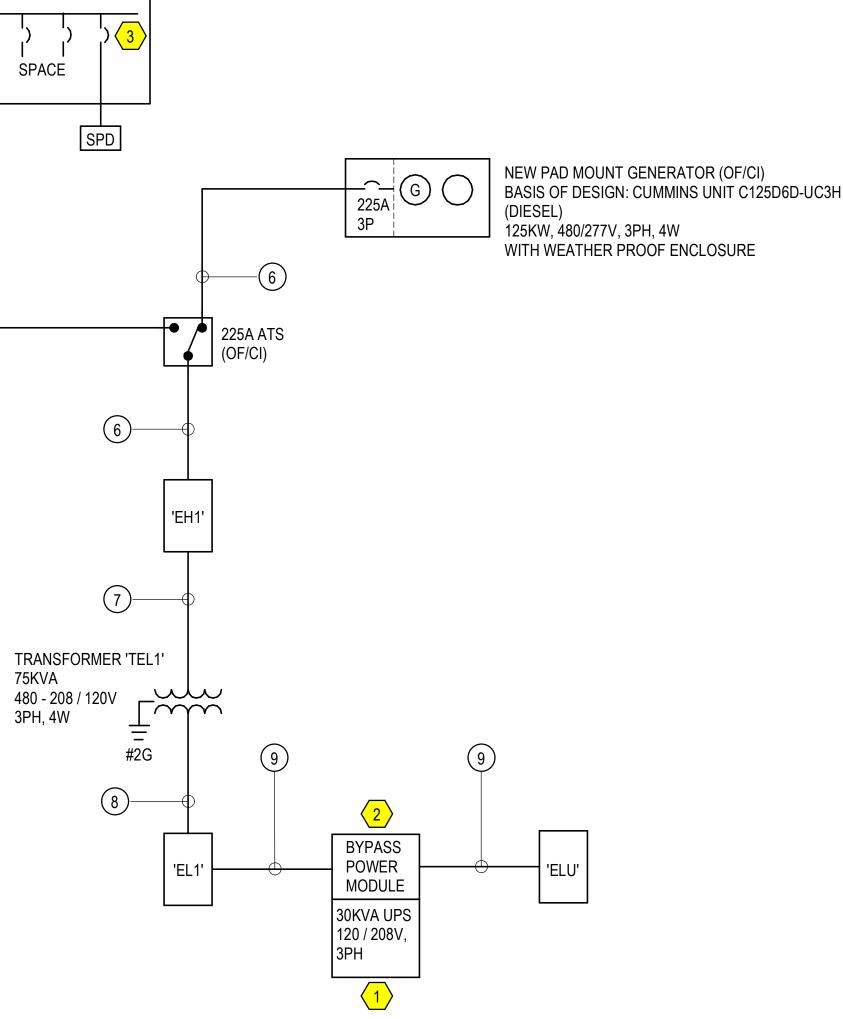
GENERAL NOTES-

- CONDUCTORS WITH UTILITY AND SWITCHBOARD EQUIPMENT PROVIDER.
- 2. ELECTRICAL CONTRACTOR TO COORDINATE AND PROVIDE APPROPRIATE LUG SETS AS REQUIREMENTS.
- ADJUST CONDUCTOR AND CONDUIT SIZES UPWARD PER NEC REQUIREMENTS
- FOR DERATINGS, VOLTAGE DROP, ETC. 40% FILL COLUMN.



KEYED NOTES:

- VERTIV LIEBERT EXM UPS 30KVA #47SA030DAC40758, 120/208V, 3-PHASE, OF/CI. 2 VERTIV MAINTENANCE BYPASS CABINET #47MBD32CC0R1UWZ, 120/208V, 3-PHASE, OF/CI. $\langle 3 \rangle$
 - CIRCUIT BREAKER AND CONDUCTOR SIZES PER MANUFACTURER'S RECOMMENDATIONS.





1. ELECTRICAL CONTRACTOR TO COORDINATE THE MAXIMUM NO. OF SETS OF SERVICE ENTRANCE

REQUIRED FOR ALL TERMINATIONS SUITABLE TO CONDUCTOR TYPE, WIRE SPACE, AND ALL OTHER

3. FIELD CONDITIONS OF ACTUAL INSTALLATION MAY REQUIRE ELECTRICAL CONTRACTOR TO

4. ALL RACEWAY SIZES (EMT/GRSC/PVC 40) ARE TO BE BASED ON THE NEC TABLE 4 (CHAPTER 9),

| Image: Second se |
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| A A A A A A A A A A A A A A A A A A A |
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| Design Phase CONSTRUCTION |
| DOCUMENTS Revisions |
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| CROMWELL ARCHITECTS/ ENGINEERS |
| ENGINEERS #5 #5 #5 |
| ARHANSAS 1 |
| REGISTERED PROFESSIONAL ENGINEER |
| No. 9401 No. 9401 O2-20-2025 |
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| Issue Date 02-20-2025 Sheet Title |
| ELECTRICAL |
| SINGLE-LINE DIAGRAM |
| Sheet Number |
| E-601 |
| |

| | | | IXTUR | E SCHE | DULE | | |
|------|-------------------|---|---------|--------|-------------------------------|--|----------------|
| TYPE | MANUFACTURER | CATALOG NUMBER | VOLTAGE | SOURCE | MAXIMUM FIXTURE WATTAGE | DESCRIPTION | KEYED NOTES |
| A | COOPER METALUX | 24FP3140C | UNV | LED | 30 | 2X4 TROFFER | |
| В | COOPER METALUX | 22FP2140C | UNV | LED | 21 | 2X2 TROFFER | |
| С | HALO | HC605D010-HM60525840-61WDC | UNV | LED | 6 | 6" CAN LIGHT | |
| Р | MCGRAW-EDISON | GALN-SA4C-740-U-T4FT-BZ | UNV | LED | 213 | SITE LIGHTING MOUNTED ON 25FT POLE | |
| S | COOPER METALUX | 4SNX-31SL-LW-UNV-L840-CD1 WITH AYC-CHAIN/SET-U | UNV | LED | 20 | 4FT LED INDUSTRIAL STRIP WITH FROSTED WIDE LENS | |
| U | HALO | HU30M-SCTD-18-MB / HU30MUNVMSMB | UNV | LED | 7 | 18" UNDERCABINET LIGHT | |
| W | LITHONIA LIGHTING | DSXW1LED-P4-40K-70CRI-T2M-MVOLT-SRM-DWHXD | MVOLT | LED | 29 | EXTERIOR WALL PACK | |
| WE | LITHONIA LIGHTING | DSXW1LED-P4-40K-70CRI-T2M-MVOLT-SRM-E20WC-DWHXD | MVOLT | LED | 29 | EXTERIOR WALL PACK | 1 |
| Х | SURELITES | APC7RG | UNV | LED | 5 | COMBO EXIT/EMERGENCY LIGHT | 1, 2 |
| Z | SURELITES | SELHP100R3 | UNV | LED | 3 | EGRESS LIGHT | |

LIGHTING FIXTURE SCHEDULE GENERAL NOTES:

1. PROVIDE FLANGE KIT AS REQUIRED

LIGHTING FIXTURE SCHEDULE KEYED NOTES:

1. BATTERY BACK UP.

2. ARROWS AND FACES PER PLANS

| | PANEL | ME | | | ING <u>SUF</u> | | | DCATION | | | | MAIN BUS RATIN | G <u>4</u> | 00 | AMPS | |
|------|--------|-------|-------|--------------------|----------------|---------|-------|----------|-------|------|--------|-------------------------|-------------|------|--------|------|
| | MAIN | С | | | | | FRAME | 400 | | TRIP | | | | | | |
| VO | LTAGE | | | | ASE 3 | | | | MIN | IMUM | BREAKE | ER INTERRUPTING CAPACIT | Y <u>14</u> | KA | _ | |
| | A | CCESS | ORIES | SN + EQP GND + SPD | | | | | | | | | | | - | |
| | DEVICE | | | BRANCH CIRCUI | Т | | Pł | IASE LOA | D | | | BRANCH CIRCUIT | | | DEVICE | |
| AMPS | POLES | TVDE | | | VOL | | , V | OLT AMP | S | NO | VOLT | | | TVDE | POLES | AMPS |
| TRIP | FULLS | | LOAD | DESCRIPTION | AMP | S ''' | A | В | С | NO | AMPS | DESCRIPTION | LOAD | | FULLS | TRIP |
| 45 | 3 | | Н | PAC-1 | 119 | 17 1 | 13302 | | | 2 | 1385 | UH-1 | Н | | 3 | 15 |
| - | - | | Н | - | 119 | 17 3 | | 13302 | | 4 | 1385 | - | Н | | - | - |
| - | - | | Н | - | 119 | 17 5 | | | 13302 | 6 | 1385 | - | Н | | - | - |
| 225 | 3 | | М | EH1 | 457 | 18 7 | 55748 | | | 8 | 10000 | 30KVA TL1 XFMR | Μ | | 3 | 45 |
| - | - | | М | EH1 | 457 | 18 9 | | 55748 | | 10 | 10000 | - | Μ | | - | - |
| - | - | | М | EH1 | 457 | 18 1 | | | 55748 | 12 | 10000 | - | Μ | | - | - |
| 45 | 3 | | | SPARE | | 13 | | | | 14 | | SPARE | | | 3 | 15 |
| - | - | | | - | | 15 | | | | 16 | | - | | | - | - |
| - | - | | | - | | 17 | , | | | 18 | | - | | | - | - |
| 20 | 1 | | | SPARE | | 19 | | | | 20 | | SPARE | | | 1 | 20 |
| 20 | 1 | | | SPARE | | 2 | | | | 22 | | SPARE | | | 1 | 20 |
| 20 | 1 | | | SPARE | | 23 | | | | 24 | | SPARE | | | 1 | 20 |
| 20 | 1 | | | SPACE | | 25 | | | | 26 | | SPACE | | | 1 | 20 |
| 20 | 1 | | | SPACE | | 27 | , | | | 28 | | SPACE | | | 1 | 20 |
| 20 | 1 | | | SPACE | | 29 | | | | 30 | | SPACE | | | 1 | 20 |
| | | | | | TOTA | L | 69050 | 69050 | 69050 | | 207 | KVA (CONNECTED) | | | (CONNE | , |
| | | | | | | | | | | | 207 | KVA (DEMAND) | 249 | AMPS | (DEMAN | ND) |

PANEL SCHEDULE LEGEND

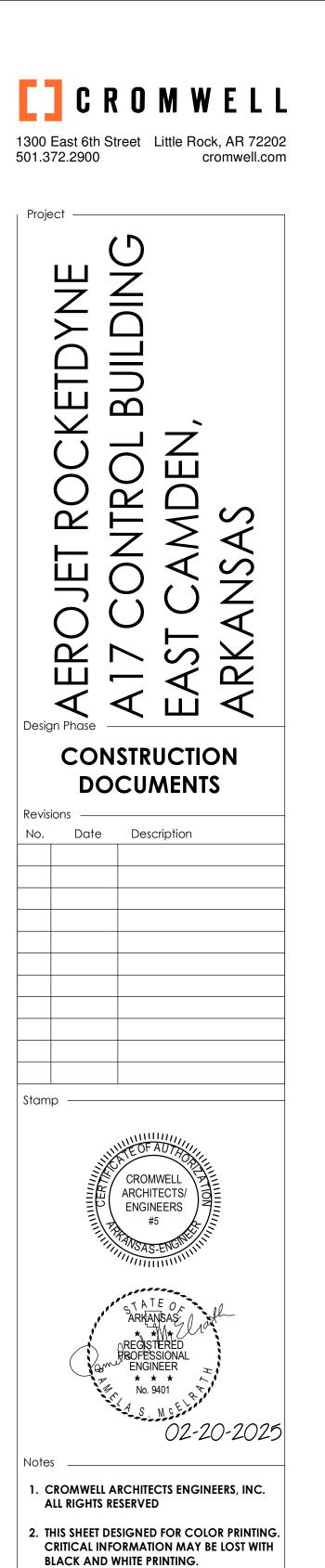
<u>MAIN</u> CB = CIRCUIT BREAKER LO = LUGS ONLY

<u>BRANCH CIRCUIT BREAKER TYPE</u> A = ARC FAULT CIRCUIT INTERRUPTER

- G = GROUND FAULT CIRCUIT INTERRUPTER
- S = SHUNT TRIP
- V = VARIABLE (ADJUSTABLE TRIP) E = EQUIPMENT GROUND FAULT PROTECTIC
- L = LOCKOUT DEVICE
- O = LOCK ON DEVICE OR BREAKER R = RED MARKING ON BREAKER

| २ | LOAD TYPE L = LIGHTING R = RECEPTACLE H = HVAC M = MISCELLANEOUS V = VARIOUS S = SUBFED |
|-----|---|
| ION | MISCELLANEOUS SN = SOLID NEUTRAL EQP GND = EQUIPMENT GROUND BUS IG = INSULATED GROUND BUS SPD = SURGE PROTECTIVE DEVICE |

| IG = INSULATED GROUND BUS |
|--|
| SPD = SURGE PROTECTIVE DEVICE |
| AIC = AMPERE INTERRUPTING CAPACITY |
| KAIC = KILO AMPERE INTERRUPTING CAPACITY |
| |



Sheet Number — **E-602**

ELECTRICAL

SCHEDULES

2024-210

02-20-2025

Project Number —

Issue Date –

Sheet Title —

| | PANEL_ | | .1 | MOUNTING | | CE | LC | CATION_ | ELECT | 104 | | MAIN BUS RATING | i 10 | 0 | AMPS | |
|------|--------|------|-------|-----------------------|-------|----|-------|-----------|-------|------|--------|-------------------------|-------|------|--------|------|
| | MAIN | С | В | POLES | | | FRAME | 100 | | TRIP | 100 | | | | | |
| VO | LTAGE | 208Y | ′/120 | PHASE | 3 | | - | | MIN | IMUM | BREAKE | R INTERRUPTING CAPACITY | ′ 10I | ٨ | | |
| | AC | CESS | ORIES | SN + EQP GND | | | | | | | | | | | | |
| [| DEVICE | | | BRANCH CIRCUIT | | | PF | IASE LOAI | D | | | BRANCH CIRCUIT | | | DEVICE | |
| AMPS | POLES | | | | VOLT | NO | V | OLT AMPS | 5 | NO | VOLT | | | | POLES | AMPS |
| TRIP | PULES | TIPE | LOAD | DESCRIPTION | AMPS | NU | A | В | С | NO | AMPS | DESCRIPTION | LOAD | TIPE | PULES | TRIP |
| 20 | 1 | | L | 101 / 107 - 117 LTG | 898 | 1 | 1998 | | | 2 | 1100 | MICROWAVE BRK RM 111 | R | G | 1 | 20 |
| 20 | 1 | | L | EXT LTG | 290 | 3 | | 1390 | | 4 | 1100 | MICROWAVE BRK RM 111 | R | G | 1 | 20 |
| 20 | 1 | | R | OPEN WORK RECPTS | 1080 | 5 | | | 2080 | 6 | 1000 | REFRIG BRK RM 111 | R | G | 1 | 20 |
| 20 | 1 | | R | OPEN WORK RECPTS | 1080 | 7 | 2080 | | | 8 | 1000 | REFRIG BRK RM 111 | R | G | 1 | 20 |
| 20 | 1 | | R | OPEN WORK RECPTS | 1080 | 9 | | 2080 | | 10 | 1000 | VENDING BRK RM 111 | R | G | 1 | 20 |
| 20 | 1 | | R | BRK RM RECPT | 720 | 11 | | | 1720 | 12 | 1000 | VENDING BRK RM 111 | R | G | 1 | 20 |
| 20 | 1 | | R | COPIER | 1000 | 13 | 1540 | | | 14 | 540 | CORRIDOR RECPT | R | | 1 | 20 |
| 20 | 1 | | R | 112 / 113 / 114 RECPT | 540 | 15 | | 1260 | | 16 | 720 | ELECT 104 RECPT | R | | 1 | 20 |
| 20 | 1 | | R | COFFEE MAKER BRK 111 | 1500 | 17 | | | 2040 | 18 | 540 | EXTERIOR RECPTS | R | | 1 | 20 |
| 20 | 1 | | Н | EXHAUST FANS | 294 | 19 | 1794 | | | 20 | 1500 | EWH-1 | М | G | 2 | 20 |
| 20 | 1 | G | М | HWRP-1 | 1680 | 21 | | 3180 | | 22 | 1500 | - | М | | - | - |
| 20 | 1 | | R | BRK RM 111 RECPTS | 720 | 23 | | | 900 | 24 | 180 | MAINT RECPT RM 115 | R | | 1 | 20 |
| 20 | 1 | | R | SERVER RECPT | 180 | 25 | 606 | | | 26 | 426 | PARKING LOT LIGHTING | L | | 1 | 20 |
| 20 | 1 | | R | ALLERTON DDC PNL REC | 180 | 27 | | 680 | | 28 | 500 | WS-1 RECPT | М | G | 1 | 20 |
| 20 | 1 | | | SPARE | | 29 | | | | 30 | | SPARE | | | 1 | 20 |
| 20 | 1 | | | SPARE | | 31 | | | | 32 | | SPARE | | | 1 | 20 |
| 20 | 1 | | | SPARE | | 33 | | | | 34 | | SPARE | | | 1 | 20 |
| | | | | SPACE | | 35 | | | | 36 | | SPACE | | | | |
| | | | | SPACE | | 37 | | | | 38 | | SPACE | | | | |
| | | | | SPACE | | 39 | | | | 40 | | SPACE | | | | |
| | | | | SPACE | | 41 | | | | 42 | | SPACE | | | | |
| | | | | | TOTAL | | 8018 | 8590 | 6740 | | | KVA (CONNECTED) | | | (CONNE | , |
| | | | | | | | | | | | 20 | KVA (DEMAND) | 56 | AMPS | (DEMAN | ND) |

| | PANEL | E | | MOUNTING | | | | | | 104 | | MAIN BUS RATING | 62 | 2 |
|------|--------|-------|-------|----------------------|-------|----|-------|---------|-------|------|--------|--------------------------|------------|---|
| | MAIN | L | 0 | _ POLES | | | FRAME | | | TRIP | | | | |
| VC | LTAGE | | | | 3 | | | | MIN | IMUN | BREAKE | ER INTERRUPTING CAPACITY | ' <u> </u> | K |
| | A | CCESS | ORIES | SN + EQP GND | | | | | | | | | | |
| | DEVICE | | | BRANCH CIRCUIT | | | PH | ASE LOA | D | | | BRANCH CIRCUIT | | |
| AMPS | POLES | TVDE | | | VOLT | NO | V(| OLT AMP | S | NO | VOLT | | | |
| TRIP | FULES | IIFE | LOAD | DESCRIPTION | AMPS | | A | В | С | NU | AMPS | DESCRIPTION | LOAD |] |
| 20 | 1 | | R | OFFICE 102 RECPT | 720 | 1 | 3008 | | | 2 | 2288 | DFC-1 / DHP-1 | Н | |
| 20 | 1 | | R | OFFICE 103 RECPT | 720 | 3 | | 3008 | | 4 | 2288 | - | H | |
| 20 | 1 | L | М | FACP | 1000 | 5 | | | 3288 | 6 | 2288 | DFC-2 / DHP-2 | Н | |
| 20 | 1 | | R | CONTROL 106 RECPTS | 1080 | 7 | 3368 | | | 8 | 2288 | - | Н | |
| 20 | 1 | | R | CONTROL 106 RECPTS | 1080 | 9 | | 3056 | | 10 | 1976 | DFC-3 / DHP-3 | Н | |
| 20 | 1 | | R | CONTROL 106 RECPTS | 1080 | 11 | | | 3056 | 12 | 1976 | - | H | |
| 20 | 1 | | R | CONTROL 106 RECPTS | 1080 | 13 | 11080 | | | 14 | 10000 | 30 KVA UPS | М | |
| 20 | 1 | | R | CONTROL 106 RECPTS | 1080 | 15 | | 11080 | | 16 | 10000 | - | Μ | |
| 20 | 1 | | R | CONTROL 106 RECPTS | 1080 | 17 | | | 11080 | 18 | 10000 | - | Μ | |
| 20 | 1 | | R | CONTROL 106 RECPTS | 720 | 19 | 1520 | | | 20 | 800 | 102 - 106 LTG | L | |
| 20 | 1 | | R | SERVER 105 RECPTS | 180 | 21 | | 680 | | 22 | 500 | ACCESS CTRL/HARDWARE | Μ | |
| 20 | 1 | | R | SERVER 105 RECPTS | 360 | 23 | | | 1360 | 24 | 1000 | ACCESS CONTROL PNL | M | |
| 20 | 1 | | М | GENSET BATTERY CHARG | 1200 | 25 | 1300 | | | 26 | 100 | CCTV | Μ | |
| 20 | 2 | | М | BLOCK HEATER | 800 | 27 | | 800 | | 28 | | SPARE | | |
| 20 | - | | М | - | 800 | 29 | | | 800 | 30 | | - | | |
| 20 | 1 | | Н | ISOLATION DAMPERS | 100 | 31 | 100 | | | 32 | | SPARE | | |
| 20 | 1 | | | SPARE | | 33 | | | | 34 | | - | | |
| | | | | SPACE | | 35 | | | | 36 | | SPACE | | |
| | | | | SPACE | | 37 | | | | 38 | | SPACE | | |
| | | | | SPACE | | 39 | | | | 40 | | SPACE | | |
| | | | | SPACE | | 41 | | | | 42 | | SPACE | | |
| | | | | | TOTAL | | 20376 | 18624 | 19584 | | 59 | KVA (CONNECTED) | 163 | |
| | | | | | | | | | | | 59 | KVA (DEMAND) | 163 | |

PANEL SCHEDULE LEGEND

<u>MAIN</u> CB = CIRCUIT BREAKER LO = LUGS ONLY

BRANCH CIRCUIT BREAKER TYPE A = ARC FAULT CIRCUIT INTERRUPTER G = GROUND FAULT CIRCUIT INTERRUPTER S = SHUNT TRIP

V = VARIABLE (ADJUSTABLE TRIP) E = EQUIPMENT GROUND FAULT PROTECTION

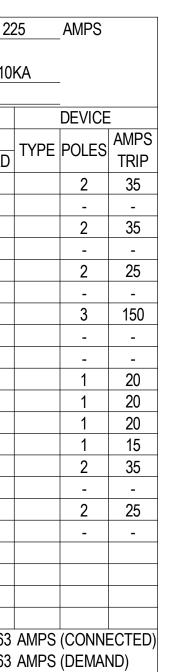
L = LOCKOUT DEVICE

O = LOCK ON DEVICE OR BREAKER

R = RED MARKING ON BREAKER

<u>LOAD TYPE</u> L = LIGHTING R = RECEPTACLE H = HVAC M = MISCELLANEOUS V = VARIOUS S = SUBFED

<u>MISCELLANEOUS</u> SN = SOLID NEUTRAL EQP GND = EQUIPMENT GROUND BUS IG = INSULATED GROUND BUS SPD = SURGE PROTECTIVE DEVICE AIC = AMPERE INTERRUPTING CAPACITY KAIC = KILO AMPERE INTERRUPTING CAPACITY



| | PANEL | EF | -11 | MOUNTING | SURFA | ACE | LC | CATION | ELECT | 104 | | MAIN BUS RATI | NG 2 | 25 | AMPS | |
|------|--------|-------|-------|----------------|-------|-----|-------|----------|-------|------|-------|---------------------------------|-------|------|------------------|----------|
| | MAIN | С | В | POLES | S 3 | | FRAME | 225 | | TRIP | 225 | | | | - | |
| VC | DLTAGE | 480Y | /277 | PHASE | 3 | | - | | | IMUM | BREAK | ER INTERRUPTING CAPACI | TY 14 | IKA | | |
| | A | CCESS | ORIES | SN + EQP GND | | | | | | | | | | | - | |
| | DEVICE | | | BRANCH CIRCUIT | | | PH | ASE LOA | D | | | BRANCH CIRCUIT | | | DEVICE | <u> </u> |
| AMPS | POLES | | | | VOLT | | l V(| OLT AMPS | S | NO | VOLT | | | | POLES | AMPS |
| TRIP | PULES | TIPE | LOAD | DESCRIPTION | AMPS | NO | A | В | С | NU | AMPS | DESCRIPTION | LOAD | ITPE | PULES | |
| 20 | 3 | | Н | PAC-2 HEATING | 4000 | 1 | 29000 | | | 2 | 25000 | 75KVA TEL1 XFMR | М | | 3 | 125 |
| - | - | | Н | - | 4000 | 3 | | 29000 | | 4 | 25000 | - | М | | - | - |
| - | - | | Н | - | 4000 | 5 | | | 29000 | 6 | 25000 | - | М | | - | - |
| 25 | 3 | | Н | PAC-2 | 6374 | 7 | 6374 | | | 8 | | SPARE | | | 3 | 20 |
| - | - | | Н | - | 6374 | 9 | | 6374 | | 10 | | - | | | - | - |
| - | - | | Н | - | 6374 | 11 | | | 6374 | 12 | | - | | | - | - |
| 20 | 3 | | Н | PAC-3 HEATING | 4000 | 13 | 4000 | | | 14 | | SPARE | | | 3 | 20 |
| - | - | | Н | | 4000 | 15 | | 4000 | | 16 | | - | | | - | - |
| - | - | | Н | | 4000 | 17 | | | 4000 | | | - | | | - | - |
| 25 | 3 | | Н | PAC-3 | 6374 | 19 | 6374 | | | 20 | | SPARE | | | 3 | 25 |
| - | - | | Н | - | 6374 | 21 | | 6374 | | 22 | | - | | | - | - |
| - | - | | Н | - | 6374 | 23 | | | 6374 | 24 | | - | | | - | - |
| 20 | 1 | | | SPARE | | 25 | | | | 26 | | SPARE | | | 3 | 25 |
| 20 | 1 | | | SPARE | | 27 | | | | 28 | | - | | | - | - |
| 20 | 1 | | | SPARE | | 29 | | | | 30 | | - | | | - | - |
| 20 | 1 | | | SPARE | | 31 | | | | 32 | | SPARE | | | 1 | 20 |
| 20 | 1 | | | SPARE | | 33 | | | | 34 | | SPARE | | | 1 | 20 |
| | | | | SPACE | | 35 | | | | 36 | | SPACE | | | | |
| | | | | SPACE | | 37 | | | | 38 | | SPACE | | | | |
| | | | | SPACE | | 39 | | | | 40 | | SPACE | | | | <u> </u> |
| | | | | SPACE | | 41 | | | | 42 | | SPACE | | | | |
| | | | | | TOTAL | | 45748 | 45748 | 45748 | | | KVA (CONNECTED) KVA (DEMAND) | | | (CONNI (DEMA) | |

| | PANEL | EL | U | | MOUNTING | SURFA | CE | LC | CATION | ELECT | ۲ 104 | | MAIN BUS RATI | NG 1 | 50 | AMPS | |
|------|--------|-------|------|-----------------------|-----------|-------|------|----|----------|-------|-------|------|------------------------|-------|------|--------|------|
| | MAIN | C | | - | - | 3 | | | 150 | | TRIP | | | | | _/ 0 | |
| VO | LTAGE | | | - | PHASE | | | | | | | | ER INTERRUPTING CAPACI | TY 10 | KA | | |
| | | | | SN + EQP GND | | | | | | | | | | | | _ | |
| | DEVICE | | | | I CIRCUIT | | | PH | ASE LOA | D | | | BRANCH CIRCUIT | | | | |
| AMPS | | | | | | VOLT | | | OLT AMPS | | | VOLT | | | | | |
| TRIP | POLES | IYPE | LOAD | DESCRIP | ΓΙΟΝ | AMPS | NO - | A | B | C | - NO | AMPS | DESCRIPTION | LOAD | IYPE | POLES | TRIP |
| 30 | 2 | | | SERVER APU 1 | | | 1 | | | | 2 | | GRINDER 57 PLC 3 | | | 1 | 20 |
| - | - | | | - | | | 3 | | | | 4 | | DRYER 58 PLC 3 | | | 1 | 20 |
| 20 | 2 | | | SERVER APU 2 | | | 5 | | | | 6 | | MIXER 70 PLC 3 | | | 1 | 20 |
| - | - | | | - | | | 7 | | | | 8 | | GRINDER 74 PLC 3 | | | 1 | 20 |
| 20 | 1 | | | GRINDER 20 PLC | 3 | | 9 | | | | 10 | | MIXER 114 PLC 3 | | | 1 | 20 |
| 20 | 1 | | | MIXER 22 PLC 3 | | | 11 | | | | 12 | | SPARE PLC 3 | | | 1 | 20 |
| 20 | 1 | | | MIXER 23 PLC 3 | | | 13 | | | | 14 | | SPARE PLC 3 | | | 1 | 20 |
| 20 | 1 | | | MIXER 24 PLC 3 | | | 15 | | | | 16 | | SPARE PLC 3 | | | 1 | 20 |
| 20 | 1 | | | MIXER 25 PLC 3 | | | 17 | | | | 18 | | SPARE PLC 3 | | | 1 | 20 |
| 20 | 1 | | | GRINDER 27 PLC | 3 | | 19 | | | | 20 | | SPARE PLC 3 | | | 1 | 20 |
| 20 | 1 | | | GRINDER 35 PLC | 3 | | 21 | | | | 22 | | SPARE PLC 3 | | | 1 | 20 |
| 20 | 1 | | | MIXER 51 PLC 3 | | | 23 | | | | 24 | | SPARE | | | 1 | 20 |
| 20 | 1 | | | SPARGING 56 PL | C 3 | | 25 | | | | 26 | | SPARE | | | 1 | 20 |
| 30 | 2 | | | SPARE | | | 27 | | | | 28 | | SPARE | | | 2 | 30 |
| - | - | | | - | | | 29 | | | | 30 | | - | | | - | - |
| 30 | 2 | | | SPARE | | | 31 | | | | 32 | | SPARE | | | 2 | 30 |
| - | - | | | - | | | 33 | | | | 34 | | - | | | - | - |
| 20 | 1 | | | SPARE | | | 35 | | | | 36 | | SPARE | | | 1 | 20 |
| | | | | SPACE | | | 37 | | | | 38 | | SPACE | | | | |
| | | | | SPACE | | | 39 | | | | 40 | | SPACE | | | | |
| | | | | SPACE | | | 41 | | | | 42 | | SPACE | | | | |
| | | | | | | TOTAL | | 0 | 0 | | C | | KVA (CONNECTED) | | | (CONN | |
| | | | | | | | | | | | | 0 | KVA (DEMAND) | 0 | AMPS | (DEMAI | ND) |

| [] C I | R O | MW | Έ | LI | |
|----------------------------------|--------|----|----------------|----|--|
| 1300 East 6th \$ 501.372.2900 | Street | | ck, AR romw | | |
| | UZ | | | | |

| A EROJET ROCKETDYNE A17 CONTROL BUILDING EAST CAMDEN, ARKANSAS ARKANSAS |
|---|
| CONSTRUCTION DOCUMENTS |
| Revisions No. Date Description |
| |
| |
| |
| Stamp |
| CROMWELL ARCHITECTS/ ENGINEERS #5 WM/ NSAS-ENSILITION REGISTERED ROFESSIONAL ENGINEER |
| No. 9401 No. 9401 OZ-20-202 |
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| Sheet Number |