

# **AEROJET - NEW GUARD POST - 2**

# East Camden, Arkansas



Project







| <u>AR(</u>      | CHITECTURAL AB                        | <u>BREV</u>      | <u>IATIONS</u>                  | <u>INDE</u>    | X OF DRAWINGS                         |                          | SYMBOLS LEGEND            |   | CROMWELL1300 East 6th Street<br>501.372.2900Little Rock, AR 72202<br>cromwell.com   |
|-----------------|---------------------------------------|------------------|---------------------------------|----------------|---------------------------------------|--------------------------|---------------------------|---|---|
| AB<br>ACOUST    | ANCHOR BOLT<br>ACOUSTICAL             | KG<br>LCB        | KILOGRAM<br>LIQUID CHALK BOARD  | SHFFT          |                                       | Sheet                    |                           |   |   |
| AD              |                                       | LM               | LINEAL METER                    | NUMBER         | SHEET NAME                            | Issue Date REVISION DATE |                           | ELEVATION SYMBOL                          | Project   |
| adj.<br>Admin.  | ADMINISTRATION                        | MAS              | MASONRY                         | GENERAL IN     | FORMATION                             |                          |                           | ELEVATION IDENTIFICATION NUMBER           |   |
| A.F.F.<br>AGGRE | ABOVE FINISH FLOOR<br>AGGREGATE       | MATL.<br>MAX     | MATERIAL                        | G-001          | TITLE SHEET                           | 07-17-2024               | ROOM NUMBER               | $\begin{pmatrix} 1 \\ 1 \end{pmatrix}$    | AFROJFT   |
| ALUM.           | AUMINUM                               | MB               | MINI-BLINDS                     | G-002          | INDEX, SYMBOLS & ABBREV.              | 07-17-2024               | ROOM AREA                 | SHEET NUMBER WHERE ELEVATION IS DRAWN     |   |
| BD<br>B.F.F.    | BOARD<br>BELOW FINISH FLOOR           | M.D.<br>MECH.    | METAL DECK<br>MECHANICAL        | G-003          | GENERAL NOTES & DETAILS               | 07-17-2024               |                           |   | New Guard   |
| BLKG            | BLOCKING                              | MEMB.            | MEMBRANE                        | LIFE SAFET     | /                                     |                          |                           | SECTION SYMBOL                            |   |
| вм<br>В.О.      | BEAM<br>BOTTOM OF                     | MEZZ.<br>MFR     | MANUFACTURER                    | GI001          | LIFE SAFETY CODE ANALYSIS             | 07-17-2024               | FIRE RATING               | SECTION IDENTIFICATION NUMBER             | Post - 2  |
| BPL             | BASE PLATE                            | MISC.            |                                 | GI101          | LIFE SAFETY FLOOR PLAN                | 07-17-2024               | DOOR NUMBER PER SCHEDULE  |   |   |
| BS<br>BTWN.     | BETWEEN                               | M.S.             | MASONAT OPENING<br>METAL STUD   | CIVIL          |                                       |                          |                           | A-101 SHEET NUMBER WHERE SECTION IS DRAWN |   |
| B.U.R.          | BUILT-UP ROOF                         | MTL.             | METAL<br>NOT IN CONTRACT        | VF101          | SITE SURVEY                           | 06-20-2024               | WINDOW LABEL              |   |   |
| CL              | CENTERLINE                            | NS               | NON-SHRINK                      | C-001          | CIVIL NOTES                           | 06-20-2024               |                           | DETAIL SYMBOL                             |   |
| CFC<br>CSF      | COMBINED FACILITIES COMPLEX           | N.T.S.<br>OC     | NOT TO SCALE<br>ON CENTER       | CS101          | SITE LAYOUT PLAN                      | 06-20-2024               |                           |   |   |
| CG              | CORNER GUARD                          | OD               | OUTSIDE DIAMETER                | CG101          | SITE GRADING AND DRAINAGE PLAN        | 06-20-2024               |                           |   |   |
| CJ<br>CLG       | CONTROL JOINT<br>CEILING              | OFW<br>OPNG      | OUTSIDE FACE OF WALL<br>OPENING | CU101          | SITE UTILITY PLAN                     | 06-20-2024               |                           |   |   |
| CMU             | CONCRETE MASONRY UNIT                 | OPP.             | OPPOSITE<br>DI ACTIO I AMINIATE | C-501          | SITE DETAILS<br>SITE DETAILS          | 06-20-2024               | REVISION NUMBER           | SHEET NUMBER WHERE DETAIL IS DRAWN        |   |
| COL.<br>CONC.   | COLUMN<br>CONCRETE                    | P.LAM<br>PL      | PLASTIC LAMINATE                | C-503          | SITE DETAILS                          | 06-20-2024               | GENERAL AREA OR           |   |   |
| CONC. BLK       | CONCRETE BLOCK                        | PLYWD.           | PLYWOOD                         |                |                                       |                          | DETAIL INCLUDED IN        |   |   |
| CONST.<br>CONT. | CONTINUOUS                            | PNL<br>PROD      | PRODUCE                         | STRUCTURA      |                                       | 07 17 2024               |                           | 17 NOTE IDENTIFICATION NUMBER             |   |
| CT              |                                       | KG/SQM           | KILOGRAMS PER SQUARE METER      | 3-001          | NOTES                                 | 07-17-2024               |                           |   | Design Phase  |
| DB<br>DIM.      | DIMENSION                             | QTY              | QUANTITY                        | S-002          | STRUCTURAL GENERAL NOTES CONT'D       | 07-17-2024               | $1 \leq 5$                | PARTITION TAG                             | CONSTRUCTION  |
| DR<br>ITU       | DOOR                                  | R                | RISER                           | S-003          | COMPONENTS AND CLADDING WIND PRESSURE | 07-17-2024               |                           | 1hr - FIRE RATING                         |   |
| DWG             | DRAWING                               | RD               | ROOF DRAIN                      | S-101          | FOUNDATION AND SLAB PLAN              | 07-17-2024               |                           |   | Revisions   |
| EA<br>E B       | ΕΑCΗ<br>ΕΧΡΑΝSION ΒΟΙ Τ               | REFRIG           | REFRIGERATION                   | S-102          | ROOF FRAMING PLAN                     | 07-17-2024               |                           |   | No. Date Description  |
| EF              | EXHAUST FAN                           | REQD             | REQUIRED                        | S-301          | TYP FOUNDATION AND SLAB DETAILS       | 07-17-2024               | _                         |   |   |
| E.I.F.S.<br>F.I | EXTERIOR INSULATION AND FINISH SYSTEM | RM<br>RPP        | ROOM<br>RACK POST PROTECTOR     | S-302          | FOUNDATION DETAILS                    | 07-17-2024               | -                         |   |   |
| ELEC.           | ELECTRICAL                            | SC               | SOLID CORE                      | S-501          | TYPICAL ROOF FRAMING DETAILS          | 07-17-2024               |                           |   |   |
| ELEV.<br>FQ     | ELEVATION                             | SCHED.<br>SECT   | SCHEDULE                        | S-502          | TYPICAL ROOF FRAMING DETAILS          | 07-17-2024               |                           | 15  |   |
| EQUIP.          | EQUIPMENT                             | SHT.             | SHEET                           | S-503<br>S-601 | TYPICAL CANOPY FRAMING DETAILS        | 07-17-2024               |                           |   |   |
| EW<br>EWC       | EACH WAY<br>ELECTRIC WATER COOLER     | SIM.<br>SPECS    | SIMILAR<br>SPECIFICATIONS       | 0.001          | TH IOAE HARDENED HOOM DETAILO         | 07 17 2024               |                           |   |   |
| EXIST.          | EXISTING                              | SMFE             | SURFACE MOUNTED FEC             | ARCHITECT      | JRAL                                  |                          |                           | WOOD, FINISH CARPENTRY                    |   |
| EXP<br>EXT.     | EXPANSION                             | SRFE             | SEMI-RECESSED FEC               | A-101          | FLOOR PLAN                            | 07-17-2024               |                           |   |   |
| F               | FEMALE                                | SS               | SANITARY SEWER                  | A-102<br>A-201 | EXTERIOR ELEVATIONS                   | 07-17-2024               |                           | WOOD, BLOCKING                            |   |
| FE              | FIRE EXTINGUISHER                     | S.S.<br>SSC      | STAINLESS STEEL CLOSURE         | A-301          | SECTIONS                              | 07-17-2024               | GRAVEL                    | PLYWOOD                                   | Stamp   |
| FEC             | FIRE EXTINGUISHER CABINET             | SST              | STAINLESS STEEL THRESHOLD       | A-401          | LARGE SCALE PLANS & DETAILS           | 07-17-2024               |                           |   |   |
| FIN.            | FINISH FLOOR ELEVATION                | STL              | STAFF TRAINING BUILDING         | A-402<br>A-403 | DETAILS                               | 07-17-2024               | BRICK                     | METAL                                     | LINCHITEC / S EN  |
| FLR             | FLOOR                                 | STO.<br>STRUCT   | STORAGE                         | A-404          | WINDOW DETAILS                        | 07-17-2024               |                           |   | REGISTERED  |
| F.O.C.          | FACE OF CONCRETE                      | SYM.             | SYMBOL                          | A-601          | SCHEDULES & DEMOLITION PLAN           | 07-17-2024               |                           | GLASS                                     | ARCHITECTS  |
| FRP<br>FTG      | FIBERGLASS REINFORCED PANEL           | Т<br>Т&В         | TREAD<br>TOP AND BOTTOM         | A-602          | ROOM FINISH NOTES AND LEGENDS         | 07-17-2024               |                           | GYPSUM BOARD (GWB)                        | The ANSA DIT  |
| GA              | GAGE                                  | THK              | THICK                           | A-701          | PARTITION TYPES AND WALL SECTIONS     | 07-17-2024               |                           |   |   |
| GALV<br>GR      | GALVANIZED<br>GUARD RAIL              | THRESH.<br>TJ    | THRESHOLD<br>TOOLED JOINT       |                |                                       |                          |                           | BATT INSULATION                           | ERED APO  |
| GP              | GUARD POST                            | TO               | TOP OF                          | PLUMBING       |                                       | 07.17.0004               |                           |   | S H K. FOR  |
| GYP<br>GYP.BD.  | GYPSUM<br>GYPSUM BOARD                | T.O.S.<br>T.O.P. | TOP OF STEEL<br>TOP OF PANEL    | P-001<br>P-101 | OVERALL PLUMBING PLAN                 | 07-17-2024               |                           |   | REAL REAL   |
| Н               | HIGH                                  | TS               | TUBE STEEL                      | P-501          | PLUMBING DETAILS                      | 07-17-2024               | COOLER/FREEZER WALL PANEL |   | ★ No. 3339 ★  |
| HD<br>HC        | HANDICAP<br>HOLLOW CORE               | TW<br>TYP        | TRANSACTION WINDOW              | P-502          | PLUMBING DETAILS & RISER              | 07-17-2024               |                           |   | REKANSAS  |
| HDW             | HARDWARE                              | T.O.M.           |                                 | P-601          | PLUMBING SCHEDULES                    | 07-17-2024               | _                         |   | 07-17-2024  |
| HM<br>HORIZ.    | HORIZONTAL                            | U.N.O.<br>VCT    | VINYL COMPOSITION TILE          | MECHANICA      | L                                     |                          |                           |   | Notes   |
| HP              | HORSEPOWER                            | VERT.            |                                 | M-001          | MECHANICAL LEGEND, SYMBOLS, GENERAL   | 07-17-2024               |                           |   | 1. CROMWELL ARCHITECTS ENGINEERS, INC.  |
| INFO.           | INFORMATION                           | v⊏51.<br>V.I.F.  | VESTIDULE<br>VERIFY IN FIELD    | M 101          | NOTES, AND SCHEDULES                  | 07 17 2024               | -                         |   |   |
| INSUL.          |                                       | W                | WIDE                            | M-501          | MECHANICAL DETAILS                    | 07-17-2024               | -                         |   | 2. THIS SHEET DESIGNED FOR COLOR PRINTING.<br>CRITICAL INFORMATION MAY BE LOST WITH |
| JAN             | JANITOR.                              | WC               | WATER CLOSET                    |                |                                       |                          | -                         |   | BLACK AND WHITE PRINTING.   |
| JT<br>IST       | JOINT                                 |                  |                                 | ELECTRICAL     |                                       |                          |                           |   | 2024-052  |
| KCJ             | KEYED CONTROL JOINT                   | WG               | WALL GUARD                      | E-001          | ELECTRICAL LEGEND                     | 07-17-2024               | -                         |   | Issue Date <b>07-17-2024</b>  |
| LAV.            | LAVATORY                              | W/O              |                                 | EG101          |                                       | 07-17-2024               | -                         |   | Sheet Title   |
|                 |                                       | WT               | WEIGHT                          | EL101          | LIGHTING PLAN                         | 07-17-2024               |                           |   |   |
|                 |                                       | WWF              | WELDED WIRE FABRIC              | EP101          | POWER PLAN & SINGLE LINE DIAGRAM      | 07-17-2024               | _                         |   | INDEX, SYMBOLS &  |
|                 |                                       |                  |                                 | E1101<br>F-601 |                                       | 07-17-2024               | -                         |   | ABBREV.   |
|                 |                                       |                  |                                 |                |                                       |                          |                           |   |   |

Sheet Number

# NOTES

## **GENERAL CONSTRUCTION REQUIREMENTS:**

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

2. 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.

3. 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.

4. PRIOR TO COMMENCING WITH THE WORK, 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.

5. THE OWNER SHALL OCCUPY PORTIONS OF THE FACILITY DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER ALL CONSTRUCTION PROCEDURES WHICH WILL INTERFERE WITH THE NORMAL DAILY OPERATIONS OF THE FACILITY. THE CONTRACTOR SHALL OBTAIN PERMISSION FROM THE OWNER FOR ALL INTERRUPTIONS OF UTILITY SERVICES PRIOR TO THE INTERRUPTION ACCIDENTAL INTERRUPTIONS SHALL BE REMEDIED IMMEDIATELY WITH APPROPRIATE FORCES.

6. THE FACILITY SHALL BE PROTECTED AT ALL TIMES FROM MOISTURE, DUST AND DEBRIS. INSTALL DUST PARTITIONS AS REQUIRED AND/OR AS SHOWN TO KEEP THE EXISTING PREMISES FREE FROM DUST AND DEBRIS. PROVIDE BARRICADES SEPARATING THE PUBLIC FROM CONSTRUCTION ACTIVITY.

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

8. THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF THE SECURITY SYSTEM OF THE EXISTING FACILITY AT ALL TIMES. THIS INCLUDES KEEPING THE FACILITY SECURE FROM PERSONS, ENVIRONMENTAL ELEMENTS, OR HAZARDS. THE CONTRACTOR SHALL OBTAIN PERMISSION FROM THE OWNER PRIOR TO THE MODIFICATION OF ANY SECURITY SYSTEM OR THE DISABLING OF SUCH.

9. 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 THE BUILDING DURING CONSTRUCTION. PROVIDE EXTINGUISHERS AS REQUIRED BY LOCAL AND STATE AUTHORITIES, UL LISTED 2A:20BC DRY CHEMICAL FIRE EXTINGUISHERS, ACCESSIBLE AT ALL TIMES WITHIN ALL CONSTRUCTION AREAS.

10. THE CONTRACTOR SHALL MAINTAIN THE REQUIRED NUMBER OF EXITS FROM THE FACILITY. MAINTAIN EXITS, EXIT SIGNS AND EMERGENCY LIGHTING AT ALL TIMES AS REQUIRED BY THE GOVERNING AUTHORITIES.

11. REMOVE ANY EXISTING ITEMS, SERVICES, FINISHES/OR SURFACES AS REQUIRED FOR THE INSTALLATION OF NEW CONSTRUCTION.

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

13. 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.

## **GENERAL SITE VERIFICATION REQUIREMENTS:**

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

16. 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.

## **GENERAL DEMOLITION REQUIREMENTS:**

**REFER TO EXISTING GUARD POST - DEMOLITION NOTES ON A601** 

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

18. THE CONTRACTOR SHALL FIELD VERIFY THE EXTENT OF DEMOLITION. THE WORK INCLUDES, BUT IS NOT LIMITED TO, THE DEMOLITION AND REMOVAL OF WALLS, CEILINGS, ROOFING, DOORS, FIXTURES, PLUMBING, MECHANICAL AND ELECTRICAL ITEMS INCLUDING CONDUITS AND DUCTWORK AS SHOWN ON DRAWING OR AS REQUIRED FOR THE INSTALLATION OF THE NEW WORK FOR A COMPLETE JOB. CONTRACTOR SHALL REPAIR SITE, REFER TO CIVIL DRAWINGS.

19. WHEN UTILITIES ARE REMOVED, CAP AND SEAL A MINIMUM OF 8" BELOW FINISH FLOOR.

20. THE CONTRACTOR SHALL RETAIN A REGISTERED PROFESSIONAL ENGINEER TO SPECIFY DEMOLITION PROCEDURES. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR MEANS AND METHODS OF DEMOLITION AND NEW CONSTRUCTION.

21. DURING DEMOLITION AND 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.

22. REFER TO THE OWNER APPROVED CONSTRUCTION PHASING SCHEDULE FOR PHASING OF DEMOLITION AND NEW CONSTRUCTION. COORDINATE DEMOLITION WITH NEW CONSTRUCTION IN ORDER THAT THE FACILITY WILL HAVE UNINTERRUPTED WATER. SEWER. ELECTRICAL. GAS AND FIRE PROTECTION SERVICE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING ALL NECESSARY TEMPORARY UTILITY PROVISIONS REQUIRED.

23. ALL DEMOLITION MATERIALS NOT SALVAGED BY THE OWNER SHALL BE REMOVED BY THE CONTRACTOR. COORDINATE WITH THE OWNER REGARDING MATERIALS TO BE SALVAGED BY THE OWNER. REFER ALSO TO DRAWINGS AND SPECIFICATIONS FOR SALVAGED ITEMS.

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

25. PROTECT ALL WATER PIPING AT AREAS OF DEMOLITION AND EXPANSION, WHERE EXISTING PIPING IS SUBJECT TO FREEZING. PROTECT PIPING SO AS NOT TO FREEZE.

## GENERAL FLOOR PLAN NOTES:

26. ALL DIMENSIONS ARE TO FACE OF CMU OR STUD UNLESS NOTED OTHERWISE.

27. 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.

28. CLEAN ALL EXISTING HVAC GRILLES WHICH REMAIN, PRIOR TO CONTRACT COMPLETION.



Project



| Α | PPLICABL | E CODES | 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<br>MAINTENANCE OF WATER BASED FIRE PROTECTION<br>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   |
| 1 |          |         |  |

# **OCCUPANCY CLASSIFICATION**

XMIXED □ SEPARATED X NON SEPARATED

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

# CONSTRUCTION CLASSIFICATION: IIB

## **HEIGHT AND AREA - ACTUAL**

BUILDING HEIGHT **BUILDING AREA** 

# HEIGHT AND AREA- ALLOWABLE

| OCCUPANCY<br>CLASSIFICATION |  |
|-----------------------------|--|
| В                           |  |
| U                           |  |
|                             |  |
|                             |  |

UNLIMITED AREA QUALIFY FOR FRONTAGE FRONTAGE INCREASE FAC

ALLOWABLE AREA AA

14875 = [ ALLOWABLE AREA

| WALL & CEILING<br>FINISH |  |
|--------------------------|--|
| FLOOR COVERINGS          |  |

# INCIDENTAL USES

| <ul> <li>FURNACE ROOM</li> <li>ROOMS WITH BOILERS</li> <li>REFRIGERANT MACHINERY ROOM</li> <li>HYDROGEN FUEL GAS ROOMS</li> <li>INCINERATOR ROOMS</li> <li>INCINERATOR ROOMS</li> <li>PAINT SHOPS IN OTHER THAN F</li> <li>GROUP E LABORATORIES AND VOCATIONAL<br/>SHOPS</li> <li>GROUP I-2 LABORATORIES</li> <li>AMBULATORY CARE FACILITIES<br/>LABORATORIES</li> <li>LAUNDRY ROOMS OVER 100 SQFT</li> <li>GROUP I-2 LAUNDRY ROOMS OVER 100 SQFT</li> </ul> | <ul> <li>GROUP I-3 CELLS AND GROUP I-2 PATIENT<br/>ROOMS</li> <li>GROUP I-2 PHYSICAL PLANT MAINTENANCE<br/>SHOPS</li> <li>AMBULATORY CARE FACILITIES OR GROUP<br/>I-2 WASTE AND LINEN COLLECTION ROOM<br/>WITH AGGREGATE VOLUME OF 10CF</li> <li>OTHER THAN AMBULATORY AND GROUP I-2<br/>WASTE AND LINEN COLLECTION ROOMS<br/>OVER 100 SQFT</li> <li>AMBULATORY CARE FACILITIES OR GROUP<br/>I-2 STORAGE ROOMS OVER 100 SQFT</li> <li>ELECTRICAL INSTALLATIONS AND<br/>TRANSFORMERS</li> </ul> |
|--|--|
| F APPLICABLE, SEPARATION AND/OR PROTECTION: N/A  | (TABLE 509.1)  |

HEIGHT IN FEET 12' - 2"

HEIGHT IN STORIES 1

439.00 SF

|  | TABULAR AREA<br>(TABLE 506.2) |              | TAE<br>(T      | iHT<br>4) |         |
|--|-------------------------------|--------------|----------------|-----------|---------|
| TYPE OF<br>CONSTRUCTION                    | AREA<br>FACTOR                | AREA         | AREA<br>FACTOR | FEET      | STORIES |
| IIB  | NS                            | 23000        | NS             | 55        | 3       |
| IIB  | NS                            | 8500         | NS             | 55        | 2       |
|  |                               |              |                |           |         |
| ۲<br>E INCREASE? گ<br>CTOR (TABLE 506.3.3) | □ YES                         | I NO<br>∃ NO |                |           |         |
| a = [At + (NS X I                          | F)]                           |              | (506.2)        |           |         |
| 8500 + (                                   | 8500                          | X 0          | .75 )          | ]         |         |

TABULAR TABULAR FACTOR ALLOWABLE ALLOWABLE AREA INCREASE DUE AREA FACTOR FACTOR FOR NS TO FRONTAGE

## **INTERIOR FINISH REQUIREMENTS**

| EXITS | EXIT ACCESS<br>CORRIDORS | OTHER SPACES |
|-------|--------------------------|--------------|
| А     | В                        | С            |
| II    | II                       | II           |

(TABLE 803.13)

|  | MS  |  |  |  |  |  |
|--|---|--|--|--|--|--|
| IRE PROTECTION SYSTEM  | RE  | QUIRED   | PROVIDED   | SECTION  |  | Project  |
| LITOMATIC SPRINKLER  |   |  |  | 903  | _  |  |
| LTERNATIVE AUTO FIRE EXT   |   |  |  | 904  |  |  |
| TANDPIPE   |   |  |  | 905  |  |  |
| ORTABLE FIRE EXTINGUISHERS   |   | $\bullet$  |  | 906  |  | Now Guard  |
| IRE ALARM AND DETECTION  |   |  |  | 907  |  |  |
|  |   |  |  | 908  |  | Doct 2   |
|  |   |  |  | 909  |  | FUSL-Z   |
| IBE COMMAND CENTER   |   |  |  | 910  |  |  |
| IRE DEPT. CONNECTIONS  |   |  |  | 912  |  |  |
| IRE PUMPS  |   |  |  | 913  |  |  |
| MERGENCY RESPONDER FEATUR  | RES   |  |  | 914  |  |  |
| ARBON MONOXIDE DETECTION   |   |  |  | 915  |  |  |
| AS DETECTION SYSTEMS   |   |  |  | 916  |  |  |
| MERGENCY RESP. COMM COVER  | RAGE  |  |  | 918  |  |  |
| RESISTANCE OF BUI  | LDING EL  | EMEN   | NTS<br>SECTION   |  |  |  |
|  |   | 0  | 601  |  |  | Design Phase   |
| EARING WALLS (EXTERIOR)  |   | 0  | 601<br>601   |  |  | CONSTRUCTION   |
| ON-BEARING WALLS (EXTERIOR)  | )   | 0  | 601  |  |  | DOCUMENTS  |
| ON-BEARING WALLS (INTERIOR)  |   | 0  | 601  |  |  | Revisions  |
|  |   | 0  | 601  |  |  | No. Date Description   |
|  |   | 0  | 601  |  |  |  |
| NTERIOR EXIT STAIRWAYS   |   | N/A  | 1023   |  |  |  |
|  |   |  | /13  |  |  |  |
| NS OF EGRESS   |   |  |  |  |  |  |
| IEANS OF EGRESS ELEMENT  | RE  | QUIRED   | PROVIDED   | SECTION  |  |  |
|  |   | 1  | 1  | 1006.3.4   |  |  |
| XIT ACCESS TRAVEL DISTANCE   |   | 75 ft  | 17 ft  | 1017.2   |  | Stamp  |
| EAD-END LIMIT  |   | 20 ft  | 0 ft   | 1020.5   |  |  |
| OMMON PATH OF TRAVEL LIMIT   |   | 75 ft  | 17 ft  | 1006.2.1   |  | E OF AUTRO   |
| OTAL OCCUPANT LOAD:<br>GRESS WIDTH:<br>IINIMUM CORRIDOR WIDTH:<br>LEAR OPENING DOOR WIDTH:<br>LUMINATION OF EGRESS:<br>MERGENCY EGRESS LIGHTING: | 2<br>0.2" PER PEI<br>44"<br>32"<br>1 FT-CANDLI<br>FAILURE.<br>EXIT ACCES<br>DESIGNATE<br>INCLUDES D | RSON FO<br>E AT THI<br>S AND E<br>D CORR<br>ESIGNA | DR LEVEL CO<br>E FLOOR AN<br>DISCHARGE O<br>IDORS, AISL<br>TED DOORS | DMPONENTS<br>D 0.2 FT-CA<br>ONLY. ACCE<br>ES, AND PAS<br>, WALKWAY | O/ 0.3" STAIRS AND RAMPS<br>NDLE FOR A SINGLE LIGHT<br>SS INCLUDES<br>SSAGEWAYS. DISCHARGE<br>S, AND RAMPS LEADING | ARCHITECTS/<br>ENGINEERS<br>#5<br>THANSAS-ENGINITION<br>SAS-ENGINITION<br>ARKANSAS<br>ARKANSAS<br>ARKANSAS<br>ARKANSAS   |
|  |   | WAY. F   | PERFORMAN  |  | PA 101 7.9.  | No. 19823  |
|  | NFPA 101 7.   | 10   |  |  |  | 07-17-202  |
|  |   |  |  |  |  |  |
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|  |   |  |  |  |  | 1. CROMWELL ARCHITECTS ENGINEERS, INCALL RIGHTS RESERVED         2. THIS SHEET DESIGNED FOR COLOR PRINTIL CRITICAL INFORMATION MAY BE LOST WITE BLACK AND WHITE PRINTING.         Project Number       2024-05         Issue Date       07-17-202         Sheet Title       LIFE SAFETY CODE ANALYSIS         Sheet Number |

| ALTICONA TIG SPRINKLER<br>ALTICONA TIG SPRINKLER<br>ALTICO   |   | REQUIRED  | PROVIDED  | SECTION   |   | Project   |  |  |
|--|---|---|---|---|---|---|--|--|
| ALLOWALD, SPHINALER       000         STRANTIC       STRANTIC         STRANTI   |   |   |   |   |   |   |  |  |
| TANDERE       1       10000       1000  | AUTOMATIC SPRINKLER   |   |   | 903   |   |   |  |  |
| Construction <ul> <li></li></ul>   | STANDPIPE   |   |   | 905   |   |   | UJEI   |  |
| HER. ALARM AND DE FLECTION       1977         MARCENCY ALARM       997         MARCENCY ALARM       998         MARCENCY ALARM       998         MARCENCY ALARM       991         HER CALMAND CENTER       911         HER PLANM       913         MARCENCY ALARM       914         AND RETECTIONS WITHOUT ALURES       913         MARCENCY ALES ENTERTONS       913         MARCENCY RESP. COMM COVERAGE       912         SERESISTANCE OF BUILDING ELEMENTS       101         MARCENCY RESP. COMM COVERAGE       911         MARCENCY RESP. COMM COVERAGE  | PORTABLE FIRE EXTINGUISHERS   |   |   | 906   |   |   |  |  |
| NERRENCY ALARM       000         MORE CONTRA       010         MORE CONTRA       010         IFE DEMT CONVECTIONS       010         IFE DEMT CONVECTIONS       010         MERRENCY RESPONDER FEATURES       010         MERRENCY RESP. COMM COVERAGE       010         MERRENCY RESP. COMM COVERAGE       010         MERRENCY RESP. COMM COVERAGE       0100         MERRENCY RESP. COMM COVERAGE       01000         MERRENCY RESP. COMM COVERAGE       01000000         MERRENCY RESP. C   | FIRE ALARM AND DETECTION  |   |   | 907   |   |   | Guard  |  |
| Mode Contract<br>Mode a HEAT REMOVAL<br>HE POWER A HEAT REMOVAL<br>HE POWER<br>HE PO | MERGENCY ALARM  |   |   | 908   |   |   | $\mathbf{}$  |  |
| MORE & REAT REMOVAL       010         IFE COMMAND CONTENT       910         IFE DEMYS       912         IFE DEMYS       0         IFE DEMYS       1         IFE DEMYS  | MOKE CONTROL  |   |   | 909   |   |   | Z  |  |
| INE DURAND CENTER       011         INE PLANKS       011         MARCENCY RESPONDER FEATURES       011         AMECH MONTONE DE DE STATURES       011         AMECH MONTONE DE DE STATURES       011         MERINES MULTICATION SYSTEMS       011         SI MOTIFICATION SYSTEMS       011         MERINES MULTICATION SYSTEMS       0101         MERINES MULTICATION SYSTEMS       0101         MERINES MULTICATION SYSTEMS       0101         MERINES MULTICATION SYSTEMS       0101         MEANS OF EGRESS       0110         MARTE MULTICATION       0         MERINE OF EGRESS       NA         MEANS OF EGRESS FLEMENT       REQUIRED PROVIDED SECTION         MIMME OR FEXTS ALL BITTANCE       2         CORTINUE TO TON       2         MEANS  |   |   |   | 910   |   |   |  |  |
| Inter Bolt, NUMBER INJURIES       112         INTERGEDION SERVICES       014         INTERGEDION SERVICES       015         INTERGEDION SERVICES       016         INTERGEDION SERVICES       016         INTERGEDION SERVICES       016         INTERGEDION RESP. COMM COVERAGE       0160         INTERGEDION RESP. COMM COVERAGE       0101         INTERGEDION RESP. COMM COVERAGE       021 FER PERSON FOR LEVEL COMPONENTS: 031 STAIRS AND RAMPS         INTERGEDION RESP. COMM COVERAGE       021 FER PERSON FOR LEVEL COMPONENTS: 031 STAIRS AND RAMPS         I   |   |   |   | 911   |   |   |  |  |
| Image Covy Responder Retrurnes       0.4         ABSON MCONDER DETECTION       0.6         ABSON MCONDER DETECTION       0.6         ABSON MCONDER DETECTION       0.7         ABSON MCONDER TECHTON       0.6         ABSON MCONDER TECHTON       0.6         ABSON MCONDER TECHTON       0.6         TERUCTURAL FRAME       REQUIRED SECTION         EARING WALLS [EXTERIOR)       0.6         INTROCTION       0.6         LONGERARING WALLS [EXTERIOR)       0.7         LING COVERTION       0.6         LANGER OF EXTERNAL       1.1       1006.34         XIT ACCESS TRAVEL DISTANCE       2         LEAR OPENNOR DOR NUTH   |   |   |   | 912   |   |   |  |  |
| ARBOR MONOXIDE DE FECTOR:       1       1916         MARDENTICATION SYSTEMS       917       918         SERENTIFICATION SYSTEMS       1       918         ERESISTANCE OF BUILDING ELEMENTS       1       1000         THUCTURAL FRAME       REQUIRED SECTION<br>0       601         ICARING WALLS (EXTERIOR)       0       601         ICARING WALLS (EXTERIOR)       0       601         ICARS AND REARING WALLS (EXTERIOR)       0       601         ICOR CONSTRUCTION       0       601         ICOR CONSTRUCTION       0       601         ICOR CONSTRUCTION       0       601         ICOR CONSTRUCTION       0       0         INS OF EGRESS       1       1       1002         INS OF EGRESS       2       P REPRENO FOR LEVEL COMPONENTS: 0.27 STAIRS AND RAMPS         INIMAD OPENDOR WIDTH:       2       P EP REPRON FOR LEVEL COMPONENTS: 0.27 STAIRS AND RAMPS         INIMAD OPENDOR OW WIDTH:       3*       P CANDEL AT THE FLOOR AND 0.2 FT-CANDLE FOR A SINGLE LIGHT         INIMAD OPENDOR OW WIDTH:   | MERGENCY RESPONDER FEATUR   | }FS   |   | 913   |   |   |  |  |
| AND DEFICITION SYSTEMS<br>AND OFFICIATION OFFICIATION SYSTEMS<br>AND OFFICIATION OFFICIATION SYSTEMS<br>AND OFFICIATION OFFICIATION SYSTEMS<br>AND OFFICIATION OFFICIATION OFFICIATION SYSTEMS<br>AND OFFICIATION   | CARBON MONOXIDE DETECTION   |   |   | 915   |   |   |  |  |
| AASS ADDIFICATION SYSTEMS MERGENCY RESP. COMM COVERAGE   | GAS DETECTION SYSTEMS   |   |   | 916   |   |   |  |  |
| Marcingencov RESP. COMM COVERAGE       018         ERESISTANCE OF BUILDING ELEMENTS         STRUCTURAL FRAME       REQUIRED SECTION         Structural rename       0         Marcing Walls (INTERIOR)       0         NONDERAMIS WALLS (INTERIOR)       0         NERROR CENT STAINWAYS       NA         NERROR CENT       NA         NERROR CENT       REQUIRED PROVIDED. SECTION         NUMBER OF EQRESS ELEMENT       REQUIRED PROVIDED. SECTION         NUMMER OF EQRESS ELEMENT       20 th 17 ft 10020.5         SOMMON PATH OF TRAVEL DISTANCE       2°         C2° EE PRESS NUTH:       0.2° PE PERSON FOR LEVEL COMPONENTS'O.3° STAIRS AND RAMPS         MUMM CORRIDOR WITH:       2°         2°       C2° PE PERSON FOR LEVEL COMPONENTS'O.3° STAIRS AND RAMPS         MUMM CORRESS       C2° PE PERSON FOR LEVEL COMPONENTS'O.3° STAIRS AND RAMPS         MUMM CORRESS       C2° PE PERSON FOR LEVEL COMPONENTS'O.3° STAIRS AND RAMPS         MUMM TO CORRESS LIGHTOR   | ASS NOTIFICATION SYSTEMS  |   |   | 917   |   |   |  |  |
| RESISTANCE OF BUILDING ELEMENTS           TRUCTURAL FRAME           EXEMPS WALLS EXTERIOR)         O BOI           Construction           EARING WALLS EXTERIOR)         O BOI           ON PACARING WALLS EXTERIOR           NEW OF EGRESS           EXAMING OF EGRESS ELEMENT         REQUIRED PROVIDED SECTION           INS OF EGRESS           EXAMING OF EGRESS ELEMENT         REQUIRED PROVIDED SECTION           IMMERT OF TRAVEL LIMIT         25 th         1 100631           IMMERT OF TRAVEL LIMIT         25 th         1 100631           IMMERT OF TRAVEL LIMIT         25 th         1 10062.1           OTAL OCCUPANT LOAD:         2           CONTROLOGING WIDTH:         2<  | MERGENCY RESP. COMM COVER   | AGE   |   | 918   |   |   |  |  |
| Heduned section         Heduned section         Heduned section         Bearling walls (extremore)       Good Section         Section         Construction         Construction         Construction         Construction         Construction         Construction         Construction         NNS OF EGRESS         Reface waters         NAME of EGRESS         OTAL OCCUPANT LOAD:         2" OTAL OCCUPANT LOAD:       2         DOTAL OCCUPANT LOAD: <th co<="" th=""><th>E RESISTANCE OF BUIL</th><th></th><th>NTS</th><th></th><th></th><th></th><th></th></th>   | <th>E RESISTANCE OF BUIL</th> <th></th> <th>NTS</th> <th></th> <th></th> <th></th> <th></th>    | E RESISTANCE OF BUIL  |   | NTS   |   |   |  |  |
| EARING WALLS (INTERIOR) 0 601<br>EARING WIDTH<br>2 2 PER PERSON FOR LEVEL COMPONENTS/0.3' STAIRS AND RAMPS<br>INTERIOR CORPOR WIDTH<br>3 2 -<br>EARING WIDTH<br>3 -<br>EARING WIDTH  |   |   | SECTION<br>601                                      |   |   |   |  |  |
| EARING WALLS (INTERIOR)       0       601         ION-BEARING WALLS (INTERIOR)       0       601         ION-BEARING WALLS (INTERIOR)       0       601         ION BEARING WALLS (INTERIOR)       0       601         ION BEARING WALLS (INTERIOR)       0       601         ION BEARING WALLS (INTERIOR)       0       601         ION CONSTRUCTION       0       601         ION SOF EGRESS       NA       1023         INS OF EGRESS       NA       1020         INS OF EGRESS       1       1       1006.3.4         XIT ACCEPS TRAVEL DISTANCE       7.5 ft       1.7 ft       1007.2         SOMMON PATH OF TRAVEL LIMIT       20 ft oft       1002.5       1000000000000000000000000000000000000   |   |   | 601   |   |   | Design Phase –  |  |  |
| DON-BEARING WALLS (EXTÉRIOR)       0       601         DON-BEARING WALLS (INTERIOR)       0       601         DON-BEARING WALLS (INTERIOR)       0       601         DOCOUNSTRUCTION       0       601         DOR CONSTRUCTION       0       601         INAFT ENCLOSURE       N/A       1023         INAFT ENCLOSURE       N/A       1023         INAFT ENCLOSURE       N/A       1020         INS OF EGRESS LEMENT       REQUIRED PROVIDED SECTION  | BEARING WALLS (INTERIOR)  |   | 601   |   |   |   | ISTRUCTION   |  |
| ION-BEARING WALLS (INTERIOR)       0       601         ION-BEARING WALLS (INTERIOR)       0       601         IOOP CONSTRUCTION       0       601         IOOP CONSTRUCTION       0       601         INS OF EGRESS       N/A       1023         INS OF EGRESS       N/A       1020         INS OF EGRESS       N/A       1020         INS ACCOURTS IN INFORMATION       1       1         INS OF EGRESS       1       1       1006.3.4         INT ACCESS TRAVEL DISTANCE       75 ft       1       1       1006.3.4         IXT ACCESS TRAVEL LIMIT       20 ft       1       1       1006.3.4         INMIM CORRIDOR WOTH:       2       2       0       1       1006.2.1         OTAL OCCUPANT LOAD:       2       2       0       1       10002.5         ILEAR OPENING BOOR WOTH:       44"       4"       1       1       10002.5         ILEAR OPENING BOOR WOTH:       24"       1       1       10002.5       1       1       10002.5         ILMIMATION OF EGRESS       1       7.4       10007.5       3.5       3.5       1       1       0.2" PER PERSON FOR LEVEL COMPONENTS: 0.0.3" STAIRS AND RAMPS       1       1 </td <td>ION-BEARING WALLS (EXTERIOR)</td> <td>0</td> <td>601</td> <td></td> <td></td> <td>DO</td> <td>CUMENTS</td>   | ION-BEARING WALLS (EXTERIOR)  | 0   | 601   |   |   | DO  | CUMENTS  |  |
| LOOR CONSTRUCTION       0       601         OOR CONSTRUCTION       0       601         INS COF CONSTRUCTION       0       601         INTERIOR EXIT STARWAYS       NA       713         JORRIDORS       NA       713         INS OF EGRESS       NA       1020         INS OF EGRESS ELEMENT       REQUIRED PROVIDED SECTION       Important of the topological section of topological section of topological section of t  | ION-BEARING WALLS (INTERIOR)  | 0   | 601   |   |   | Revisions   | ·  |  |
| IND FC ONSTRUCTION       0       601         IHAFT FICULOS UNE       NA       713         IORRIDORS       NA       713         IORRIDORS       NA       713         INS OF EGRESS       NA       713         INS OF EGRESS       Instantion       1         INS OF EGRESS       1       1       1006.34         INMER OF EXTREMENT       1       1006.34       Instantion         INMER OF EXTREMENT       20 ft       0 ft       1020.5         INMER OF EXTREMENT       20 ft       0 ft       1020.5         INMER OF EXTREMENT       20 ft       0 ft       1020.5         OTAL OCCUPANT LOAD:       2       2       0.2° PER PERSON FOR LEVEL COMPONENTS 0.3° STAIRS AND RAMPS LEAR OPENNO BOOR WIDTH:         LLAR NORTH SEXT ACCESS SAND DOCKUPARE DIVINGENTS INCLUDES       0.2° PER PERSON FOR LEVEL COMPONENTS 0.3° STAIRS AND RAMPS LEADING TO A PUBLIC WAY. PERFORMANCE PER NFPA 101 7.3       INCLUDES DESIGNATED DOCORS, MAD 0.2 FT-CANDLE FOR A SINGLE LIGHT         ILLEAR OPENNO DOOR WIDTH:       42°       1       INCLUDES DESIGNATED DOCORS, MAD DUX, ACCESS SHOULDES         INTERMENTION       EXIT MARKING:       MARKING OF EXITS AND THE MEANS OF EGRESS SHALL BE PER       INCLUDES DESIGNATED DOCORS, MAD MARS SISCHARGE INCLUDES OF INCLUDES DESIGNATED DOCORS, MALWAYS, AND RAMPS LEADING TO A PUBLIC WAY. PERFORMANCE PER NFPA  | LOOR CONSTRUCTION   | 0   | 601   |   |   | No. Date  | Description  |  |
| NTERIOR EXIT STAIRWAYS NA 1023 APAFT ENCLOSURE NA 713 CORRIDORS NA 713 CORRIDORS NA 1020 NNS OF EGRESS ARAYEL DISTANCE NA 1020 NNS OF EGRESS ELEMENT REQUIRED PROVIDED SECTION UMBER OF EXITS 1 1 1006.3.4 EXIT ACCESS TRAVEL DISTANCE 75 ft 17 ft 1017.2 EVENT ACCESS TRAVEL DISTANCE 75 ft 17 ft 10106.2.1 OTAL OCCUPANT LOAD: 2 GRESS WIDTH: 0.2 "PER PERSON FOR LEVEL COMPONENTS! 0.3" STAIRS AND RAMPS INIMUM CORRESS: 1 FT-CANDLE AT THE FLOOR AND 0.2 FT-CANDLE FOR A SINGLE LIGHT FAILURE EXIT ACCESS AND DISCHARGE ONLY. ACCESS INCLUDES DESIGNATED CORRIDORS, AND FASAGEEWAYS DISCHARGE INCLUDES DESIGNATED CORRIDOR, SISLES, AND PASSAGEWAYS DISCHARGE INCLUDES DESIGNATED CORRIDOR, MULT, N.FPA 101 7.10 Note:  EXIT MARKING: MARKING OF EXITS AND THE MEANS OF EGRESS SHALL BE PER NFPA 101 7.10  Note:  LIFE SAFETY COL  | ROOF CONSTRUCTION   | 0   | 601   |   |   |   |  |  |
| HAH-1 ENCLOSURE       NA       113         JORRIDORS       NA       1020         INS OF EGRESS       Image: Control of the second of the sec   | NTERIOR EXIT STAIRWAYS  | N/A   | 1023  |   |   |   |  |  |
| CORRIDORS       N/A       1020         INS OF EGRESS       Image: Constraint of the consth   | SHAFT ENCLOSURE   | N/A   | 713   |   |   |   |  |  |
| INS OF EGRESS         ALEANS OF EGRESS ELEMENT         ALEANS OF EGRESS ELEMENT         INDUMBER OF EXITS         1       1006.3.4         XXIT ACCESS TRAVEL DISTANCE       75 ft         17 ft       1017.2         DEAD END LIMIT       20 ft         0.2* PER PERSON FOR LEVEL COMPONENTS/ 0.3* STAIRS AND RAMPS         AMMUN CORRIDOR WIDTH:       2*         LEAR OPENING DOOR WIDTH:       2*         LEAR OPENING DOOR WIDTH:       2*         EXIT ACCESS AND DISCHARGE ONLY. ACCESS INCLUDES         DEGIGNATED CORRIDORS, AISLES, AND PASSAGEWAYS. DISCHARGE         INCLUBE.         EXIT MARKING:         MARKING OF EXITS AND THE MEANS OF EGRESS SHALL BE PER         Notes         SXIT MARKING:         MARKING OF EXITS AND THE MEANS OF EGRESS SHALL BE PER         Notes         1. GROWELL ACHIECTS FROME         AL BIGHT BERNON         SXIT MARKING:         MARKING OF EXITS AND THE MEANS OF EGRESS SHALL BE PER         Notes         1. GROWELL ACHIECTS FROME         AL BIGHT BESING         SXIT MARKING:         MARKING OF EXITS AND THE MEANS OF EGRESS SHALL BE PER         Notes         1. GROWELL ACHIECTS FROME  | CORRIDORS   | N/A   | 1020  |   |   |   |  |  |
| XIT ACCESS TRAVEL DISTANCE       75 ft       17 ft       1017.2         DEAD-END LIMIT       20 ft       0 ft       1002.5         OTAL OCCUPANT LOAD:       2       2       2       17 ft       1006.21         OTAL OCCUPANT LOAD:       2       2       2       17 ft       1006.21         SIGRESS WIDTH:       0.2" PER PERSON FOR LEVEL COMPONENTS/ 0.3" STAIRS AND RAMPS       MOMENTHY       44"         SILLMINATION OF EGRESS:       1 FT-CANDLE AT THE FLOOR AND 0.2 FT-CANDLE FOR A SINGLE LIGHT       FAILURE.       EXIT ACCESS AND DISCHARGE ONLY. ACCESS INCLUDES         DESIGNATED CORRIDORS, WALKWAYS, AND RAMPS LEADING       TO A PUBLIC WAY. PERFORMANCE PER NEPA 101 7.9.       INTERMENTION OF EGRESS SHALL BE PER         XIT MARKING:       MARKING OF EXITS AND THE MEANS OF EGRESS SHALL BE PER       I. CROWNELL ACCHIECTS ENGINE         NOFE       I. STO A PUBLIC WAY. PERFORMANCE PER NEPA 101 7.9.       INSHET MEMORANCE PER NEPA 101 7.9.         XIT MARKING:       MARKING OF EXITS AND THE MEANS OF EGRESS SHALL BE PER       I. CROWNELL ACCHIECTS ENGINE         Nofe:       1. CROWNELL ACCHIECTS ENGINE       I. CROWNELL ACCHIECTS ENGINE         LINE MERINER:       MARKING OF EXITS AND THE MEANS OF EGRESS SHALL BE PER       I. CROWNEL ACCHIECTS ENGINE         Nofe:       1. CROWNEL ACCHIECTS ENGINE       I. CROWNEL ACCHIECTS ENGINE         LIFE   | IUMBER OF EXITS   | 1   | 1   | 1006.3.4  |   | Stomp   |  |  |
| DEAD-END LIMIT       20 ft       0 ft       1020.5         COMMON PATH OF TRAVEL LIMIT       75 ft       17 ft       1006.2.1         OTAL OCCUPANT LOAD:       2       2       2         GRESS WIDTH:       0.2" PER PERSON FOR LEVEL COMPONENTS/ 0.3" STAIRS AND RAMPS         AINIMUM CORRIDOR WIDTH:       44"         SLEAD OPENING DOOR WIDTH:       32"         LLUMINATION OF EGRESS:       1 FT-CANDLE AT THE FLOOR AND 0.2 FT-CANDLE FOR A SINGLE LIGHT         FAILURE.       EXIT ACCESS AND DISCHARGE ONLY. ACCESS INCLUDES         DESIGNATED CORRIDORS, WALKWAYS, AND RAMPS LEADING       TO A PUBLIC WAY. PERFORMANCE PER NFPA 101 7.9.         EXIT MARKING:       MARKING OF EXITS AND THE MEANS OF EGRESS SHALL BE PER         NFPA 101 7.10       NFPA 101 7.10         Notes       1. CROWNEU ARCHIECE BRGINE ALL MORTAND MAY EBLACK AND WHITE PENTING.         VISION FOR COOL       21         Sheet Turber       22         Sheet Total Cool Sheet Cool  | EXIT ACCESS TRAVEL DISTANCE   | 75 ft   | 17 ft   | 1017.2  |   |   |  |  |
| CONTROL COUPANT LOAD: 2<br>GRESS WIDTH: 0.2" PER PERSON FOR LEVEL COMPONENTS/ 0.3" STAIRS AND RAMPS<br>MINIMUM CORRIDOR WIDTH: 44"<br>SLEAR OPENING DOOR WIDTH: 32"<br>LLUMINATION OF EGRESS: 1 FT-CANDLE AT THE FLOOR AND 0.2 FT-CANDLE FOR A SINGLE LIGHT<br>FAILURE.<br>EMERGENCY EGRESS LIGHTING: EXIT ACCESS AND DISCHARGE ONLY. ACCESS INCLUDES<br>DESIGNATED CORRIDORS, MALKWAYS, AND PASAGEWAYS. DISCHARGE<br>INCLUDES DESIGNATED COORS, WALKWAYS, AND PASAGEWAYS. DISCHARGE<br>INCLUDES DESIGNATED COORS, WALKWAYS, AND RAMPS LEADING<br>TO A PUBLIC WAY. PERFORMANCE PER NFPA 101 7.9.<br>EXIT MARKING: MARKING OF EXITS AND THE MEANS OF EGRESS SHALL BE PER<br>NFPA 101 7.10<br>Notes<br>1. CROMWELL ARCHITECTS ENGINE<br>LIFE SAFETY COL<br>ANALYSIS<br>Sheel Number  | COMMON PATH OF TRAVELLIMIT  | 20 ft   | 0 ft<br>17 ft                                       | 1020.5  |   |   | NE OF AUTON  |  |
| TOTAL OCCUPANT LOAD:       2         GRESS WIDTH:       0.2" PER PERSON FOR LEVEL COMPONENTS/ 0.3" STAIRS AND RAMPS         MINIMUM CORRIDOR WIDTH:       44"         SLEAR OPENING DOOR WIDTH:       44"         SUEAR OPENING DOOR WIDTH:       32"         LLUMINATION OF EGRESS:       1 FT-CANDLE AT THE FLOOR AND 0.2 FT-CANDLE FOR A SINGLE LIGHT<br>FAILURE.         EMERGENCY EGRESS LIGHTING:       EXIT ACCESS AND DISCHARGE ONLY, ACCESS INCLUDES<br>DESIGNATED CORRIDORS, AISLES, AND PASSAGEWAYS. DISCHARGE<br>INCLUDES DESIGNATED CORRIDORS, WALKWAYS, AND RAMPS LEADING<br>TO A PUBLIC WAY. PERFORMANCE PER NFPA 101 7.9.         EXIT MARKING:       MARKING OF EXITS AND THE MEANS OF EGRESS SHALL BE PER<br>INFPA 101 7.10         Notes       1. CCOMWELL ARCHITECTS ENGINE<br>ALL ROHM SESSARD         2. THIS WHET PESIGNED FOR COLO<br>CERTICAL INFORMATION MAY SE<br>BLACK AND WHITE PRINTING.         2. THIS SHET DESIGNED FOR COLO<br>CERTICAL INFORMATION MAY SE         BLACK AND WHITE FRINTING.   |   |   | 17 10   | 1000.2.1  |   |   | CROMWELL   |  |
| EGRESS WIDTH: 0.2" PER PERSON FOR LEVEL COMPONENTS/ 0.3" STAIRS AND RAMPS<br>MINIMUM CORRIDOR WIDTH: 44"<br>SLEAR OPENING DOOR WIDTH: 32"<br>LLUMINATION OF EGRESS: 1 FT-CANDLE AT THE FLOOR AND 0.2 FT-CANDLE FOR A SINGLE LIGHT<br>FAILURE.<br>EMERGENCY EGRESS LIGHTING: EXIT ACCESS AND DISCHARGE ONLY. ACCESS INCLUDES<br>DESIGNATED CORRIDORS, AISLES, AND PASSAGEWAYS. DISCHARGE<br>INCLUDES DESIGNATED COORRIDORS, MALKWAYS, AND RAMPS LEADING<br>TO A PUBLIC WAY. PERFORMANCE PER NFPA 101 7.9.<br>EXIT MARKING: MARKING OF EXITS AND THE MEANS OF EGRESS SHALL BE PER<br>NFPA 101 7.10<br>Notes<br>1. CROMWELL ARCHITECTS ENGINE<br>ALL RICHT RESERVED<br>2. THIS SHEET DESIGNATED FOR COLO<br>CRIICAL INFOMATION MAY E<br>BLACK AND WHILE POINTING.<br>LIFE SAFETY COL<br>ANALLYSIS<br>Sheet Number   | OTAL OCCUPANT LOAD:   | 2   |   |   |   |   | ARCHITECTS/  |  |
| MINIMUM CORRIDOR WIDTH: 44"<br>DLEAR OPENING DOOR WIDTH: 32"<br>LLUMINATION OF EGRESS: 1 FT-CANDLE AT THE FLOOR AND 0.2 FT-CANDLE FOR A SINGLE LIGHT<br>FAILURE.<br>EMERGENCY EGRESS LIGHTING: EXIT ACCESS AND DISCHARGE ONLY. ACCESS INCLUDES<br>DESIGNATED CORRIDORS, AISLES, AND PASSAGEWAYS, SISCHARGE<br>INCLUDES DESIGNATED DOORS, WALKWAYS, AND PAMPS LEADING<br>TO A PUBLIC WAY. PERFORMANCE PER NFPA 101 7.9.<br>EXIT MARKING: MARKING OF EXITS AND THE MEANS OF EGRESS SHALL BE PER<br>NFPA 101 7.10<br>Notes<br>1. CROWNELL ARCHITECTS ENGINE<br>ALL RIGHTS RESERVED<br>2. THIS SHET DESIGN OF COLO<br>CRITICAL INFORMATION MAY BE<br>BLACK AND WHITE PRINTING.<br>Project Number<br>20<br>Sheet Time<br>21<br>Sheet Time<br>24<br>Sheet Number<br>24<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25   | GRESS WIDTH:  | 0.2" PER PERSON FO  | OR LEVEL CO   | OMPONENTS/ 0  | 0.3" STAIRS AND RAM                                 | IPS   | #5   |  |
| SLEAR OPENING DOOR WIDTH:       32"         LLUMINATION OF EGRESS:       1 FT-CANDLE AT THE FLOOR AND 0.2 FT-CANDLE FOR A SINGLE LIGHT<br>FAILURE.         EMERGENCY EGRESS LIGHTING:       EXIT ACCESS AND DISCHARGE ONLY. ACCESS INCLUDES<br>DESIGNATED CORRIDORS, AISLES, AND PASSAGEWAYS, DISCHARGE<br>INCLUDES DESIGNATED DOORS, WALKWAYS, AND RAMPS LEADING<br>TO A PUBLIC WAY. PERFORMANCE PER NFPA 101 7.9.         EXIT MARKING:       MARKING OF EXITS AND THE MEANS OF EGRESS SHALL BE PER<br>NFPA 101 7.10         Notes       1. CROWFEL ARCHITECTS ENGINE<br>ALL RIGHTS RESERVED         1. CROWFEL ARCHITECTS ENGINE<br>ALL RIGHTS RESERVED       1. CROWFEL ARCHITECTS ENGINE<br>ALL RIGHTS RESERVED         2. THIS SHEET DESIGNED FOR COLO<br>CRITICAL INFORMATION MAY E<br>BLACK AND WHITE PRINTING.       1. CROWFEL ARCHITECTS ENGINE<br>ALL RIGHTS RESERVED         2. THIS SHEET DESIGNED FOR COLO<br>CRITICAL INFORMATION MAY E<br>BLACK AND WHITE PRINTING.       20<br>INCLUDES COLO<br>CRITICAL INFORMATION MAY E<br>BLACK AND WHITE PRINTING.  | /INIMUM CORRIDOR WIDTH:   | 44"   |   |   |   |   | ANSAS-ENGINE   |  |
| LLUMINATION OF EGRESS: 1 FT-CANDLE AT THE FLOOR AND 0.2 FT-CANDLE FOR A SINGLE LIGHT<br>FAILURE.<br>MERGENCY EGRESS LIGHTING: EXIT ACCESS AND DISCHARGE ONLY, ACCESS INCLUDES<br>DESIGNATED CORRIDORS, AISLES, AND PASSAGEWAYS. DISCHARGE<br>INCLUDES DESIGNATED DOORS, WALKWAYS, AND RAMPS LEADING<br>TO A PUBLIC WAY. PERFORMANCE PER NFPA 101 7.9.<br>EXIT MARKING: MARKING OF EXITS AND THE MEANS OF EGRESS SHALL BE PER<br>NFPA 101 7.10<br>Notes<br>1. CROMWELL ARCHITECTS ENGINE<br>ALIRGHTS RESERVED<br>2. HIS SHEET DESIGNED FOR COLO<br>CRITICAL INFORMATION MAY BE<br>INCLUDES DESIGNED FOR COLO<br>CRITICAL INFORMATION MAY BE<br>SHORE DO THE PRINTING.<br>Project Number<br>LIFE SAFETY COL<br>ANALYSIS<br>Sheet Number  |   | 32"   |   |   |   |   |  |  |
| EMERGENCY EGRESS LIGHTING: EXIT ACCESS AND DISCHARGE ONLY. ACCESS INCLUDES<br>DESIGNATED CORRIDORS, AISLES, AND PASSAGEWAYS. DISCHARGE<br>INCLUDES DESIGNATED DOORS, WALKWAYS, AND RAMPS LEADING<br>TO A PUBLIC WAY. PERFORMANCE PER NFPA 101 7.9.<br>EXIT MARKING: MARKING OF EXITS AND THE MEANS OF EGRESS SHALL BE PER<br>NFPA 101 7.10<br>Notes<br>1. CROMWELL ARCHITECTS ENGINE<br>ALL RIGHTS RESERVED<br>2. This SHEET DESIGNED FOR COLO<br>CRICAL INFORMATION MAY BE<br>BLACK AND WHITE PRINTING.<br>Project Number<br>20<br>Sheet Title<br>07-1<br>Sheet Title<br>07-1<br>Sheet Title<br>07-1<br>Sheet Number  | JLEAR OPENING DOOR WIDTH:   | 1 FT-CANDLE AT THE  | E FLOOR AN  | D 0.2 FT-CAND   | LE FOR A SINGLE LIC                                 | λΗΤ   | TATEO  |  |
| EXIT MARKING: MARKING OF EXITS AND THE MEANS OF EGRESS SHALL BE PER NFPA 101 7.10  Notes  1. CROMWELL ARCHITECTS ENGINE ALL RIGHTS RESERVED  2. THIS SHEET DESIGNED FOR COLO CRITICAL INFORMATION MAY BE LIACK AND WHITE PRINTING. Project Number  2. THIS SHEET DESIGNED FOR COLO CRITICAL INFORMATION MAY BE LIACK AND WHITE PRINTING. Project Number  LIFE SAFETY COL ANALYSIS  Sheet Number  | LLUMINATION OF EGRESS:  |   | SCHARGE   | ONLY. ACCESS  | S INCLUDES<br>AGEWAYS. DISCHAR<br>AND BAMPS I FADIN | GE  | ARKANSAS<br>REGISTERED<br>PROPESSIONAL<br>PROPESSIONAL   |  |
| Notes  Notes  Notes   CCONWELL ARCHITECTS ENGINE  ALL RIGHTS RESERVED  | LUMINATION OF EGRESS:   | EXIT ACCESS AND E<br>DESIGNATED CORR<br>INCLUDES DESIGNA<br>TO A PUBLIC WAY. F                                      | IDORS, AISL<br>TED DOORS<br>PERFORMAN               | , WALKWAYS,<br>CE PER NFPA                                  | 101 7.9.  |   | No. 19823  |  |
| ALL RIGHTS RESERVED      COMWELL ARCHITECTS ENGINE     ALL RIGHTS RESERVED      THIS SHEET DESIGNED FOR COLO     CRITICAL INFORMATION MAY BE     BLACK AND WHITE PRINTING.      Project Number      Issue Date     O7-1 Sheet Title      LIFE SAFETY COL     ANALYSIS  Sheet Number  | EXIT MARKING:   | EXIT ACCESS AND E<br>DESIGNATED CORR<br>INCLUDES DESIGNA<br>TO A PUBLIC WAY. F<br>MARKING OF EXITS<br>NFPA 101 7.10 | idors, Aisl<br>Ted Doors<br>Performan<br>And the Me | ES, AND FASS<br>, WALKWAYS,<br>ICE PER NFPA<br>EANS OF EGRE | 101 7.9.<br>SS SHALL BE PER                         |   | ₩ 0 R S H 100 R - 17-20  |  |
| 2. THIS SHEET DESIGNED FOR COLO<br>CRITICAL INFORMATION MAY BE<br>BLACK AND WHITE PRINTING.  Project Number  Issue Date  07-1 Sheet Title  LIFE SAFETY COL ANALYSIS  Sheet Number  | ELEAR OPENING DOOR WIDTH:<br>LLUMINATION OF EGRESS:<br>EMERGENCY EGRESS LIGHTING:               | EXIT ACCESS AND E<br>DESIGNATED CORR<br>INCLUDES DESIGNA<br>TO A PUBLIC WAY. F<br>MARKING OF EXITS<br>NFPA 101 7.10 | IDORS, AISL<br>TED DOORS<br>PERFORMAN<br>AND THE ME | ES, AND FASS<br>, WALKWAYS,<br>ICE PER NFPA<br>EANS OF EGRE | 101 7.9.  | Notes   | 07-17-20   |  |
| CRTICAL INFORMATION MAY BE<br>BLACK AND WHITE PRINTING.<br>Project Number  | ELEAR OPENING DOOR WIDTH:<br>LLUMINATION OF EGRESS:<br>EMERGENCY EGRESS LIGHTING:               | EXIT ACCESS AND E<br>DESIGNATED CORR<br>INCLUDES DESIGNA<br>TO A PUBLIC WAY. F<br>MARKING OF EXITS<br>NFPA 101 7.10 | IDORS, AISL<br>TED DOORS<br>PERFORMAN<br>AND THE ME | E3, AND FA33,<br>WALKWAYS,<br>ICE PER NFPA                  | 101 7.9.  | Notes<br>1. CROMWELL A<br>ALL RIGHTS R  | No. 19823<br>NO. 19823<br>OT-17-20<br>ARCHITECTS ENGINEERS, I<br>ESERVED   |  |
| Project Number   | ELEAR OPENING DOOR WIDTH:<br>LLUMINATION OF EGRESS:<br>EMERGENCY EGRESS LIGHTING:               | EXIT ACCESS AND E<br>DESIGNATED CORR<br>INCLUDES DESIGNA<br>TO A PUBLIC WAY. F<br>MARKING OF EXITS<br>NFPA 101 7.10 | IDORS, AISL<br>TED DOORS<br>PERFORMAN<br>AND THE ME | E3, AND FA33,<br>WALKWAYS,<br>ICE PER NFPA                  | 101 7.9.  | Notes<br>1. CROMWELL A<br>ALL RIGHTS R<br>2. THIS SHEET D   | ARCHITECTS ENGINEERS, I<br>ESERVED   |  |
| Issue Date   | EAR OPENING DOOR WIDTH:<br>LUMINATION OF EGRESS:<br>MERGENCY EGRESS LIGHTING:                   | EXIT ACCESS AND E<br>DESIGNATED CORR<br>INCLUDES DESIGNA<br>TO A PUBLIC WAY. F<br>MARKING OF EXITS<br>NFPA 101 7.10 | IDORS, AISL<br>TED DOORS<br>PERFORMAN<br>AND THE ME | E3, AND FA33,<br>WALKWAYS,<br>ICE PER NFPA                  | 101 7.9.  | Notes<br>1. CROMWELL A<br>ALL RIGHTS R<br>2. THIS SHEET DI<br>CRITICAL INF<br>BLACK AND   | ARCHITECTS ENGINEERS, I<br>ESERVED<br>ESIGNED FOR COLOR PRI<br>ORMATION MAY BE LOST<br>WHITE PRINTING.   |  |
| Sheef Title LIFE SAFETY COI<br>ANALYSIS<br>Sheet Number  | EXIT MARKING:   | EXIT ACCESS AND E<br>DESIGNATED CORR<br>INCLUDES DESIGNA<br>TO A PUBLIC WAY. F<br>MARKING OF EXITS<br>NFPA 101 7.10 | IDORS, AISL<br>TED DOORS<br>PERFORMAN<br>AND THE ME | E3, AND FA33,<br>WALKWAYS,<br>ICE PER NFPA                  | 101 7.9.  | Notes<br>1. CROMWELL A<br>ALL RIGHTS R<br>2. THIS SHEET DI<br>CRITICAL INF<br>BLACK AND<br>Project Number   | ARCHITECTS ENGINEERS, I<br>ESERVED<br>ESIGNED FOR COLOR PRI<br>ORMATION MAY BE LOST<br>WHITE PRINTING.<br>2024-  |  |
| LIFE SAFETY COI<br>ANALYSIS  | ELEAR OPENING DOOR WIDTH:<br>LUMINATION OF EGRESS:<br>MERGENCY EGRESS LIGHTING:<br>XIT MARKING: | EXIT ACCESS AND E<br>DESIGNATED CORR<br>INCLUDES DESIGNA<br>TO A PUBLIC WAY. F<br>MARKING OF EXITS<br>NFPA 101 7.10 | IDORS, AISL<br>TED DOORS<br>PERFORMAN<br>AND THE ME | E3, AND FA33,<br>WALKWAYS,<br>ICE PER NFPA                  | 101 7.9.  | Notes<br>Notes<br>1. CROMWELL A<br>ALL RIGHTS R<br>2. THIS SHEET DI<br>CRITICAL INF<br>BLACK AND<br>Project Number<br>Issue Date                                | ARCHITECTS ENGINEERS, I<br>ESERVED<br>ESIGNED FOR COLOR PRII<br>ORMATION MAY BE LOST<br>WHITE PRINTING.<br>2024-<br>07-17-2  |  |
| Sheet Number   | EXIT MARKING:   | EXIT ACCESS AND E<br>DESIGNATED CORR<br>INCLUDES DESIGNA<br>TO A PUBLIC WAY. F<br>MARKING OF EXITS<br>NFPA 101 7.10 | IDORS, AISL<br>TED DOORS<br>PERFORMAN<br>AND THE ME | E3, AND FA33,<br>WALKWAYS,<br>ICE PER NFPA                  | 101 7.9.  | Notes<br>Notes<br>1. CROMWELL A<br>ALL RIGHTS R<br>2. THIS SHEET DI<br>CRITICAL INF<br>BLACK AND<br>Project Number<br>Issue Date<br>Sheet Title                 | ARCHITECTS ENGINEERS, I<br>ESERVED<br>ESIGNED FOR COLOR PRIN<br>ORMATION MAY BE LOST<br>WHITE PRINTING.<br>2024-<br>07-17-2  |  |
|  | EXIT MARKING:   | EXIT ACCESS AND E<br>DESIGNATED CORR<br>INCLUDES DESIGNA<br>TO A PUBLIC WAY. F<br>MARKING OF EXITS<br>NFPA 101 7.10 | IDORS, AISL<br>TED DOORS<br>PERFORMAN<br>AND THE ME | E3, AND FA33,<br>WALKWAYS,<br>ICE PER NFPA<br>EANS OF EGRE  | 101 7.9.<br>ESS SHALL BE PER                        | Notes<br>Notes<br>1. CROMWELL A<br>ALL RIGHTS R<br>2. THIS SHEET DI<br>CRITICAL INF<br>BLACK AND<br>Project Number<br>Issue Date<br>Sheet Title<br>LIFE S<br>A  | ARCHITECTS ENGINEERS, I<br>ESERVED<br>ESIGNED FOR COLOR PRIN<br>ORMATION MAY BE LOST<br>WHITE PRINTING.<br>2024-<br>07-17-2<br>SAFETY CODE<br>NALYSIS                          |  |
|  | EXIT MARKING:   | EXIT ACCESS AND E<br>DESIGNATED CORR<br>INCLUDES DESIGNA<br>TO A PUBLIC WAY. F<br>MARKING OF EXITS<br>NFPA 101 7.10 | IDORS, AISL<br>TED DOORS<br>PERFORMAN<br>AND THE ME | E3, AND FA33,<br>WALKWAYS,<br>ICE PER NFPA<br>EANS OF EGRE  | 101 7.9.<br>ESS SHALL BE PER                        | Notes<br>Notes<br>1. CROMWELL /<br>ALL RIGHTS R<br>2. THIS SHEET DI<br>CRITICAL INF<br>BLACK AND<br>Project Number<br>Issue Date<br>Sheet Title<br>Sheet Number | No. 19823<br>OT-17-2(<br>ARCHITECTS ENGINEERS, I<br>ESERVED<br>ESIGNED FOR COLOR PRII<br>ORMATION MAY BE LOST<br>WHITE PRINTING.<br>2024-<br>07-17-2<br>SAFETY CODE<br>NALYSIS |  |

|  | REOUIRED   |   | SECTION  |  |  |  |  |
|--|--|---|--|--|--|--|--|
|  | REQUIRED   | PROVIDED  | SECTION  | _  | P  | roject ———   |  |
| UTOMATIC SPRINKLER   |  |   | 903  |  |  |  |  |
| LTERNATIVE AUTO FIRE EXT   |  |   | 904  |  |  | AERC   | JEI  |
| ORTABLE FIRE EXTINGUISHERS   |  |   | 905  |  |  |  |  |
| IRE ALARM AND DETECTION  |  |   | 907  |  |  | INEW (   | Juard  |
| MERGENCY ALARM   |  |   | 908  |  |  | Deet   | 0  |
|  |  |   | 909  | _  |  | POSI -   | · Z  |
| MOKE & HEAT REMOVAL  |  |   | 910  | _  |  |  |  |
| IRE DEPT. CONNECTIONS  |  |   | 912  | _  |  |  |  |
| IRE PUMPS  |  |   | 913  |  |  |  |  |
| MERGENCY RESPONDER FEATUR  | RES  |   | 914  |  |  |  |  |
| ARBON MONOXIDE DETECTION   |  |   | 915  | _  |  |  |  |
| AS DETECTION STSTEMS   |  |   | 910  |  |  |  |  |
| MERGENCY RESP. COMM COVER  | AGE  |   | 918  |  |  |  |  |
| RESISTANCE OF BUI  | LDING ELEMEN   | NTS   |  |  |  |  |  |
|  | REQUIRED   | SECTION   |  |  |  |  |  |
|  | 0  | 601   |  |  |  | esign Phase ——   |  |
| EARING WALLS (EXTERIOR)  | 0<br>0   | 601   |  |  |  | CONST  | RUCTION  |
| ON-BEARING WALLS (EXTERIOR)  | 0  | 601   |  |  |  | DOC  | UMENTS   |
| ON-BEARING WALLS (INTERIOR)  | 0  | 601   |  |  | <br>  Re   | evisions   |  |
| OOR CONSTRUCTION   | 0  | 601   |  |  |  | o. Date D  | escription   |
|  | 0  | 601   |  |  |  |  |  |
| HERIOR EXILSTAIRWAYS   | N/Α<br>Ν/Δ   | 1023<br>713   |  |  |  |  |  |
| ORRIDORS   | N/A N/A  | 1020  |  |  |  |  |  |
|  |  |   |  |  |  |  |  |
|  |  |   |  |  |  |  |  |
| NO OF EGHESS   |  |   |  |  |  |  |  |
| EANS OF EGRESS ELEMENT   | REQUIRED   | PROVIDED  | SECTION  |  |  |  |  |
| IEANS OF EGRESS ELEMENT  | REQUIRED   | PROVIDED  | SECTION<br>1006.3.4  |  | st   | amp  |  |
| EANS OF EGRESS ELEMENT<br>UMBER OF EXITS<br>XIT ACCESS TRAVEL DISTANCE   | REQUIRED<br>1<br>75 ft   | PROVIDED<br>1<br>17 ft  | SECTION<br>1006.3.4<br>1017.2  |  | St   | amp  |  |
| EANS OF EGRESS ELEMENT<br>UMBER OF EXITS<br>XIT ACCESS TRAVEL DISTANCE<br>EAD-END LIMIT<br>OMMON PATH OF TRAVEL LIMIT  | REQUIRED           1           75 ft           20 ft           75 ft   | PROVIDED<br>1<br>17 ft<br>0 ft<br>17 ft   | SECTION<br>1006.3.4<br>1017.2<br>1020.5<br>1006.2.1  |  | St   | amp  | OF AUTROXIII.  |
| EANS OF EGRESS ELEMENT<br>UMBER OF EXITS<br>XIT ACCESS TRAVEL DISTANCE<br>EAD-END LIMIT<br>OMMON PATH OF TRAVEL LIMIT  | REQUIRED           1           75 ft           20 ft           75 ft   | PROVIDED<br>1<br>17 ft<br>0 ft<br>17 ft   | SECTION<br>1006.3.4<br>1017.2<br>1020.5<br>1006.2.1  |  | St   |  | OF AUTHORIZE   |
| EANS OF EGRESS ELEMENT<br>UMBER OF EXITS<br>XIT ACCESS TRAVEL DISTANCE<br>EAD-END LIMIT<br>OMMON PATH OF TRAVEL LIMIT  | REQUIRED           1           75 ft           20 ft           75 ft   | PROVIDED<br>1<br>17 ft<br>0 ft<br>17 ft   | SECTION<br>1006.3.4<br>1017.2<br>1020.5<br>1006.2.1  |  | St   |  | OF AUTHORIZATION AND AUTHORIZATI AUTHORIZA   |
| EANS OF EGRESS ELEMENT<br>UMBER OF EXITS<br>XIT ACCESS TRAVEL DISTANCE<br>EAD-END LIMIT<br>OMMON PATH OF TRAVEL LIMIT<br>OTAL OCCUPANT LOAD:<br>GRESS WIDTH:<br>INIMUM COBBIDOB WIDTH:   | REQUIRED         1         75 ft         20 ft         75 ft         20 ft         75 ft   | PROVIDED<br>1<br>17 ft<br>0 ft<br>17 ft<br>DR LEVEL CO  | SECTION<br>1006.3.4<br>1017.2<br>1020.5<br>1006.2.1  | 5/ 0.3" STAIRS AND RA  | MPS  |  | OF AUTAON<br>COMWELL<br>CHITECTS/<br>IGINEERS<br>#5  |
| EANS OF EGRESS ELEMENT<br>UMBER OF EXITS<br>XIT ACCESS TRAVEL DISTANCE<br>EAD-END LIMIT<br>OMMON PATH OF TRAVEL LIMIT<br>OTAL OCCUPANT LOAD:<br>GRESS WIDTH:<br>INIMUM CORRIDOR WIDTH:<br>LEAR OPENING DOOR WIDTH:   | REQUIRED         1         75 ft         20 ft         75 ft         20 ft         75 ft         22         0.2" PER PERSON FO         44"         32"   | PROVIDED<br>1<br>17 ft<br>0 ft<br>17 ft<br>DR LEVEL CO  | SECTION<br>1006.3.4<br>1017.2<br>1020.5<br>1006.2.1  | 5/ 0.3" STAIRS AND RA  | MPS  |  | OF AUTAO<br>COMWELL<br>CHITECTS/<br>GINEERS<br>#5<br>AS-ENGINE   |
| IEANS OF EGRESS ELEMENT<br>UMBER OF EXITS<br>XIT ACCESS TRAVEL DISTANCE<br>EAD-END LIMIT<br>OMMON PATH OF TRAVEL LIMIT<br>OTAL OCCUPANT LOAD:<br>GRESS WIDTH:<br>INIMUM CORRIDOR WIDTH:<br>LEAR OPENING DOOR WIDTH:<br>LUMINATION OF EGRESS:   | REQUIRED         1         75 ft         20 ft         75 ft         20 ft         75 ft         20 ft         75 ft         32"         1 FT-CANDLE AT THE  | PROVIDED<br>1<br>17 ft<br>0 ft<br>17 ft<br>DR LEVEL CO  | SECTION<br>1006.3.4<br>1017.2<br>1020.5<br>1006.2.1<br>OMPONENTS   | S/ 0.3" STAIRS AND RA<br>NDLE FOR A SINGLE L   | MPS  |  | OF AUTA<br>COMWELL<br>CHITECTS/<br>GINEERS<br>#5<br>AS-ENGNELL   |
| IEANS OF EGRESS ELEMENT<br>UMBER OF EXITS<br>XIT ACCESS TRAVEL DISTANCE<br>EAD-END LIMIT<br>OMMON PATH OF TRAVEL LIMIT<br>OTAL OCCUPANT LOAD:<br>GRESS WIDTH:<br>INIMUM CORRIDOR WIDTH:<br>LEAR OPENING DOOR WIDTH:<br>LUMINATION OF EGRESS:<br>MERGENCY EGRESS LIGHTING:                    | REQUIRED         1         75 ft         20 ft         75 ft         20 ft         75 ft         20 ft         75 ft         21         75 ft         22         0.2" PER PERSON FOR         44"         32"         1 FT-CANDLE AT THIS         FAILURE.         EXIT ACCESS AND D         DESIGNATED CORR         INCLUDES DESIGNA         TO A PUBLIC WAY. F  | PROVIDED 1 17 ft 0 ft 17 ft OR LEVEL CO E FLOOR AN OISCHARGE O IDORS, AISL TED DOORS PERFORMAN            | SECTION<br>1006.3.4<br>1017.2<br>1020.5<br>1006.2.1<br>OMPONENTS<br>D 0.2 FT-CA<br>ONLY. ACCE<br>ES, AND PAS<br>S, WALKWAY<br>ICE PER NFF                | 5/ 0.3" STAIRS AND RA<br>NDLE FOR A SINGLE L<br>SS INCLUDES<br>SSAGEWAYS. DISCHA<br>'S, AND RAMPS LEADII<br>PA 101 7.9.                      | MPS<br>IGHT<br>RGE   | amp  | OF A0770<br>COMWELL<br>CHITECTS/<br>GINEERS<br>#5<br>AS-ENGNELLIUM<br>ATEO<br>RANSAS<br>SUSTERED<br>ESSIONAL<br>CHITESR<br>A TEO<br>RANSAS<br>SUSTERED<br>ESSIONAL<br>CHITESR<br>A TEO<br>RANSAS   |
| IEANS OF EGRESS ELEMENT<br>UMBER OF EXITS<br>XIT ACCESS TRAVEL DISTANCE<br>EAD-END LIMIT<br>OMMON PATH OF TRAVEL LIMIT<br>OTAL OCCUPANT LOAD:<br>GRESS WIDTH:<br>INIMUM CORRIDOR WIDTH:<br>LEAR OPENING DOOR WIDTH:<br>LUMINATION OF EGRESS:<br>MERGENCY EGRESS LIGHTING:<br>XIT MARKING:    | REQUIRED175 ft20 ft75 ft20 ft75 ft2175 ft220.2" PER PERSON FOR44"32"1 FT-CANDLE AT THEFAILURE.EXIT ACCESS AND DDESIGNATED CORRINCLUDES DESIGNATED CORRINCLUDES DESIGNATO A PUBLIC WAY. FMARKING OF EXITSNFPA 101 7.10  | PROVIDED 1 17 ft 0 ft 17 ft OR LEVEL CO E FLOOR AN OISCHARGE O IDORS, AISL TED DOORS PERFORMAN AND THE ME | SECTION<br>1006.3.4<br>1017.2<br>1020.5<br>1006.2.1<br>OMPONENTS<br>D 0.2 FT-CA<br>ONLY. ACCE<br>ES, AND PAS<br>S, WALKWAY<br>ICE PER NFF<br>EANS OF EG  | S/ 0.3" STAIRS AND RA<br>NDLE FOR A SINGLE L<br>SS INCLUDES<br>SSAGEWAYS. DISCHA<br>'S, AND RAMPS LEADII<br>PA 101 7.9.<br>RESS SHALL BE PER | MPS<br>IGHT<br>RGE<br>VG   | amp  | OF AUTHOR<br>OF AUTHOR<br>CHITECTS/<br>GINEERS<br>#5<br>AS-ENGNUILIUM<br>ATEO<br>RAANSAS<br>DETERED<br>ESSIONAL<br>CHITESR<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPER<br>INCOMPERI  |
| EANS OF EGRESS ELEMENT<br>UMBER OF EXITS<br>XIT ACCESS TRAVEL DISTANCE<br>EAD-END LIMIT<br>OMMON PATH OF TRAVEL LIMIT<br>OTAL OCCUPANT LOAD:<br>GRESS WIDTH:<br>INIMUM CORRIDOR WIDTH:<br>LEAR OPENING DOOR WIDTH:<br>LUMINATION OF EGRESS:<br>MERGENCY EGRESS LIGHTING:<br>XIT MARKING:     | REQUIRED1175 ft20 ft75 ft20 ft75 ft20.2" PER PERSON FO44"32"1 FT-CANDLE AT THIFAILURE.EXIT ACCESS AND DDESIGNATED CORRINCLUDES DESIGNATO A PUBLIC WAY. FMARKING OF EXITSNFPA 101 7.10  | PROVIDED 1 17 ft 0 ft 17 ft OR LEVEL CO E FLOOR AN OISCHARGE O IDORS, AISL TED DOORS PERFORMAN AND THE ME | SECTION<br>1006.3.4<br>1017.2<br>1020.5<br>1006.2.1<br>OMPONENTS<br>D 0.2 FT-CA<br>ONLY. ACCE<br>ES, AND PAS<br>S, WALKWAY<br>ICE PER NFF<br>EANS OF EG  | S/ 0.3" STAIRS AND RA<br>NDLE FOR A SINGLE L<br>SS INCLUDES<br>SSAGEWAYS. DISCHA<br>'S, AND RAMPS LEADII<br>PA 101 7.9.<br>RESS SHALL BE PER | MPS<br>IGHT<br>NGE   | amp  | ATEO<br>CANSAS<br>BISTERED<br>CHITECTS/<br>GINEERS<br>#5<br>AS-ENGINE<br>ATEO<br>CHANSAS<br>DISTERED<br>CHANSAS<br>DISTERED<br>COT-17-20   |
| IEANS OF EGRESS ELEMENT<br>UMBER OF EXITS<br>XIT ACCESS TRAVEL DISTANCE<br>EAD-END LIMIT<br>OMMON PATH OF TRAVEL LIMIT<br>OTAL OCCUPANT LOAD:<br>GRESS WIDTH:<br>INIMUM CORRIDOR WIDTH:<br>LEAR OPENING DOOR WIDTH:<br>LUMINATION OF EGRESS:<br>MERGENCY EGRESS LIGHTING:<br>XIT MARKING:    | REQUIRED175 ft20 ft75 ft20 ft75 ft20.2" PER PERSON FO44"32"1 FT-CANDLE AT THIFAILURE.EXIT ACCESS AND DDESIGNATED CORRINCLUDES DESIGNATO A PUBLIC WAY. FMARKING OF EXITSNFPA 101 7.10   | PROVIDED 1 17 ft 0 ft 17 ft OR LEVEL CO E FLOOR AN OISCHARGE O IDORS, AISL TED DOORS PERFORMAN AND THE ME | SECTION<br>1006.3.4<br>1017.2<br>1020.5<br>1006.2.1<br>OMPONENTS<br>D 0.2 FT-CAI<br>ONLY. ACCE<br>ES, AND PAS<br>S, WALKWAY<br>ICE PER NFF<br>EANS OF EG | S/ 0.3" STAIRS AND RA<br>NDLE FOR A SINGLE L<br>SS INCLUDES<br>SSAGEWAYS. DISCHA<br>'S, AND RAMPS LEADII<br>PA 101 7.9.<br>RESS SHALL BE PER | MPS<br>IGHT<br>RGE<br>VG   | amp<br>amp<br>. CROMWELL ARCH<br>ALL RIGHTS RESER  | ATEO<br>TERED<br>AS-ENGINEERS<br>#5<br>AS-ENGINEERS<br>#5<br>AS-ENGINEERS<br>#5<br>AS-ENGINEERS<br>#6. 19823<br>W 0 R S<br>AS-ENGINEERS, II<br>OT-17-20<br>HITECTS ENGINEERS, II<br>VED  |
| IEANS OF EGRESS ELEMENT<br>UMBER OF EXITS<br>XIT ACCESS TRAVEL DISTANCE<br>EAD-END LIMIT<br>OMMON PATH OF TRAVEL LIMIT<br>OTAL OCCUPANT LOAD:<br>GRESS WIDTH:<br>INIMUM CORRIDOR WIDTH:<br>LEAR OPENING DOOR WIDTH:<br>LUMINATION OF EGRESS:<br>MERGENCY EGRESS LIGHTING:<br>XIT MARKING:    | REQUIRED1175 ft20 ft75 ft20 ft75 ft20.2" PER PERSON FO44"32"1 FT-CANDLE AT THIFAILURE.EXIT ACCESS AND DDESIGNATED CORRINCLUDES DESIGNATO A PUBLIC WAY. FMARKING OF EXITSNFPA 101 7.10  | PROVIDED 1 17 ft 0 ft 17 ft OR LEVEL CO E FLOOR AN OISCHARGE O IDORS, AISL TED DOORS PERFORMAN AND THE ME | SECTION<br>1006.3.4<br>1017.2<br>1020.5<br>1006.2.1<br>OMPONENTS<br>D 0.2 FT-CAI<br>ONLY. ACCE<br>ES, AND PAS<br>S, WALKWAY<br>ICE PER NFF<br>EANS OF EG | S/ 0.3" STAIRS AND RA<br>NDLE FOR A SINGLE L<br>SS INCLUDES<br>SSAGEWAYS. DISCHA<br>'S, AND RAMPS LEADII<br>PA 101 7.9.<br>RESS SHALL BE PER | MPS<br>IGHT<br>RGE<br>IG<br>IG<br>IG<br>IG<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I              | amp<br>amp<br>amp<br>CROMWELL ARCH<br>ALL RIGHTS RESER   | ATEO<br>RANSAS<br>BISTERED<br>WONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MONEER<br>MO |
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| EANS OF EGRESS ELEMENT UMBER OF EXITS XIT ACCESS TRAVEL DISTANCE EAD-END LIMIT OMMON PATH OF TRAVEL LIMIT OTAL OCCUPANT LOAD: GRESS WIDTH: INIMUM CORRIDOR WIDTH: LEAR OPENING DOOR WIDTH: LUMINATION OF EGRESS: MERGENCY EGRESS LIGHTING: XIT MARKING:                                      | REQUIRED175 ft20 ft75 ft20 ft75 ft20.2" PER PERSON FO44"32"1 FT-CANDLE AT THIFAILURE.EXIT ACCESS AND DDESIGNATED CORRINCLUDES DESIGNATO A PUBLIC WAY. FMARKING OF EXITSNFPA 101 7.10   | PROVIDED 1 17 ft 0 ft 17 ft OR LEVEL CO E FLOOR AN OISCHARGE O IDORS, AISL TED DOORS PERFORMAN AND THE ME | SECTION<br>1006.3.4<br>1017.2<br>1020.5<br>1006.2.1<br>OMPONENTS<br>D 0.2 FT-CA<br>ONLY. ACCE<br>ES, AND PAS<br>S, WALKWAY<br>ICE PER NFF<br>EANS OF EG  | S/ 0.3" STAIRS AND RA<br>NDLE FOR A SINGLE L<br>SS INCLUDES<br>SSAGEWAYS. DISCHA<br>'S, AND RAMPS LEADII<br>PA 101 7.9.<br>RESS SHALL BE PER | MPS<br>IGHT<br>RGE<br>JG<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I       | amp  | ATEO<br>RANSAS<br>BISTERED<br>AS-ENGINEERS<br>BISTERED<br>AS-ENGINEERS<br>BISTERED<br>COT-17-20<br>HITECTS ENGINEERS, IN<br>VED<br>NED FOR COLOR PRIN<br>ATION MAY BE LOST<br>E PRINTING.<br>2024-0<br>07-17-20  |
| IEANS OF EGRESS ELEMENT UMBER OF EXITS XIT ACCESS TRAVEL DISTANCE EAD-END LIMIT OMMON PATH OF TRAVEL LIMIT OTAL OCCUPANT LOAD: GRESS WIDTH: LEAR OPENING DOOR WIDTH: LUMINATION OF EGRESS: MERGENCY EGRESS LIGHTING: XIT MARKING:  | REQUIRED         1         75 ft         20 ft         75 ft         20 ft         75 ft         20 ft         75 ft         20 ft         75 ft         22         0.2" PER PERSON FO         44"         32"         1 FT-CANDLE AT THIFAILURE.         EXIT ACCESS AND D         DESIGNATED CORR         INCLUDES DESIGNA         TO A PUBLIC WAY. F         MARKING OF EXITS         NFPA 101 7.10 | PROVIDED 1 17 ft 0 ft 17 ft OR LEVEL CO E FLOOR AN OISCHARGE O IDORS, AISL TED DOORS PERFORMAN AND THE ME | SECTION<br>1006.3.4<br>1017.2<br>1020.5<br>1006.2.1<br>OMPONENTS<br>D 0.2 FT-CA<br>ONLY. ACCE<br>ES, AND PAS<br>S, WALKWAY<br>ICE PER NFF<br>EANS OF EG  | 5/ 0.3" STAIRS AND RA<br>NDLE FOR A SINGLE L<br>SS INCLUDES<br>SSAGEWAYS. DISCHA<br>'S, AND RAMPS LEADII<br>PA 101 7.9.<br>RESS SHALL BE PER | MPS<br>IGHT<br>RGE<br>JG<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I       | amp  | ATEO<br>GINEERS<br>#5<br>AS-ENGINEERS<br>#5<br>AS-ENGINEERS<br>MANSAS<br>DETERED<br>MANSAS<br>DETERED<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESR<br>MONESS<br>MONESR<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONESS<br>MONE    |
| IEANS OF EGRESS ELEMENT<br>UMBER OF EXITS<br>XIT ACCESS TRAVEL DISTANCE<br>EAD-END LIMIT<br>OMMON PATH OF TRAVEL LIMIT<br>OTAL OCCUPANT LOAD:<br>GRESS WIDTH:<br>INIMUM CORRIDOR WIDTH:<br>LEAR OPENING DOOR WIDTH:<br>LUMINATION OF EGRESS:<br>MERGENCY EGRESS LIGHTING:<br>XIT MARKING:    | REQUIRED   | PROVIDED 1 17 ft 0 ft 17 ft OR LEVEL CO E FLOOR AN OISCHARGE O IDORS, AISL TED DOORS PERFORMAN AND THE ME | SECTION<br>1006.3.4<br>1017.2<br>1020.5<br>1006.2.1<br>OMPONENTS<br>D 0.2 FT-CA<br>ONLY. ACCE<br>ES, AND PAS<br>S, WALKWAY<br>ICE PER NFF<br>EANS OF EG  | 5/ 0.3" STAIRS AND RA<br>NDLE FOR A SINGLE L<br>SS INCLUDES<br>SSAGEWAYS. DISCHA<br>'S, AND RAMPS LEADII<br>PA 101 7.9.<br>RESS SHALL BE PER | MPS<br>GHT<br>RGE<br>NG<br>Pr<br>Iss<br>Sr   | amp  | ATEO<br>GINEERS<br>#5<br>ASENSINA<br>ATEO<br>CANSAS<br>DISTERED<br>DOT-17-20<br>HITECTS ENGINEERS, IN<br>VED<br>NED FOR COLOR PRIN<br>ATION MAY BE LOST<br>E PRINTING.<br>2024-0<br>07-17-20<br>FETY CODE<br>ALYSIS  |
| IEANS OF EGRESS ELEMENT<br>UMBER OF EXITS<br>XIT ACCESS TRAVEL DISTANCE<br>EAD-END LIMIT<br>OMMON PATH OF TRAVEL LIMIT<br>OTAL OCCUPANT LOAD:<br>GRESS WIDTH:<br>ILEAR OPENING DOOR WIDTH:<br>LEAR OPENING DOOR WIDTH:<br>LUMINATION OF EGRESS:<br>MERGENCY EGRESS LIGHTING:<br>XIT MARKING: | REQUIRED         1         75 ft         20 ft         75 ft         20 ft         75 ft         20 ft         75 ft         20 ft         75 ft         21         75 ft         22"         1 FT-CANDLE AT THIFAILURE.         EXIT ACCESS AND D         DESIGNATED CORR         INCLUDES DESIGNA         TO A PUBLIC WAY. F         MARKING OF EXITS         NFPA 101 7.10                          | PROVIDED 1 17 ft 0 ft 17 ft OR LEVEL CO E FLOOR AN OISCHARGE O IDORS, AISL TED DOORS PERFORMAN AND THE ME | SECTION<br>1006.3.4<br>1017.2<br>1020.5<br>1006.2.1<br>OMPONENTS<br>D 0.2 FT-CA<br>ONLY. ACCE<br>ES, AND PAS<br>S, WALKWAY<br>ICE PER NFF<br>EANS OF EG  | 5/ 0.3" STAIRS AND RA<br>NDLE FOR A SINGLE L<br>SS INCLUDES<br>SSAGEWAYS. DISCHA<br>'S, AND RAMPS LEADII<br>PA 101 7.9.<br>RESS SHALL BE PER | MPS<br>GHT<br>RGE<br>NG<br>N<br>I<br>Sr<br>Sr<br>Sr  | amp  | ATEO<br>GINEERS<br>#5<br>ASENSIONA<br>ATEO<br>COT-17-2C<br>HITECTS ENGINEERS, IN<br>VED<br>NED FOR COLOR PRIN<br>ATION MAY BE LOST<br>E PRINTING.<br>2024-0<br>07-17-20<br>ETY CODE<br>LYSIS   |







| FE    | FETY - PATH OF TRAVEL |                  |          |  |  |  |  |  |
|-------|-----------------------|------------------|----------|--|--|--|--|--|
| L PA1 | Ή                     |                  |          |  |  |  |  |  |
|       | TO ROOM               | FXIT TRAVEL TYPE | LENGTH   |  |  |  |  |  |
|       |                       |                  |          |  |  |  |  |  |
| 101   | GUARD OFFICE 100      | COMMON PATH      | 16' - 5" |  |  |  |  |  |

| SAFETY SCHEDULE |        |        |          |          |  |  |  |  |
|-----------------|--------|--------|----------|----------|--|--|--|--|
|                 |        | SPACE  | AREA PER | OCCUPANT |  |  |  |  |
|                 | NUMBER | AREA   | PERSON   | LOAD     |  |  |  |  |
|                 | 100    | 137 SF | 150 SF   | 1        |  |  |  |  |
| MO              | 101    | 57 SF  | 150 SF   | 0        |  |  |  |  |
|                 | 102    | 84 SF  | 150 SF   | 1        |  |  |  |  |
|                 | 103    | 54 SF  | 300 SF   | 0        |  |  |  |  |
|                 |        | 333 SF |          | 2        |  |  |  |  |

|                  | C                 | R    | 0   | M      | W           | Ε    | L             | L         |
|------------------|-------------------|------|-----|--------|-------------|------|---------------|-----------|
| 300 Ea<br>01.372 | ast 6th<br>2.2900 | Stre | eet | Little | Rock<br>cro | , AR | 722<br>ell.co | 202<br>om |

Project

AEROJET New Guard Post - 2 Design Phase CONSTRUCTION DOCUMENTS Revisions -Date Description No. Stamp CROMWELL ARCHITECTS/ ENGINEERS #5 STATE O ARKANSAS  $\int \star n \star 1 \star$ REGISTERED PROFESSIONAL ENGNESR No. 19823 07-17-2024 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 — 2024-052 Issue Date — 07-17-2024 Sheet Title — LIFE SAFETY FLOOR PLAN Sheet Number — GI101

Joshua Nix Surveying dba Nix Land Surveying, LLC P.O. Box 175 Hampton, AR 71744 870-918-5918 June 6, 2024



Only visible utilities were shown.

## Survey for Cromwell, Aerojet Guard Post Project

Engineering survey of the area of the new guard post project, Aerojet Rocketdyne, East Camden, Arkansas.

| N<br>W<br>S<br>Bearings based on NAD 83, AR   | C R O N W E L I<br>1300 East 6th Street<br>501.372.2900 Little Rock, AR 7220<br>cromwell.cor<br>Project<br>ARROJET  |
|---|---|
| South zone state pln, GPS obs.<br><b>LEGEND</b>   | New Guard<br>Post - 2   |
| PP=Power Pole<br>LT=Light Pole<br>Rk=Overhead pipe rack<br>Building<br>(Existing guard shack)   | Revisions         No.       Date         Date       Description         Date       Description <td< th=""></td<> |
| EY NOTES:<br>EET IS TAKEN FROM A SURVEY PROVIDED BY:<br>X SURVEYING<br>175<br>DN, AR 71744<br>8-5918<br>EET IS A PRESENTATION DRAWING FOR<br>ATION ONLY TO SHOW THE EXISTING CONDITIONS<br>SITE .<br>IGINAL FULL SURVEY WAS STAMPED AND SEALED<br>1 NIX (AR, PLS 1628). | Notes  Notes  CROMWELL ARCHITECTS ENGINEERS, INC.<br>ALL RIGHTS RESERVED  C. THIS SHEET DESIGNED FOR COLOR PRINTING.<br>CRITICAL INFORMATION MAY BE LOST WITH<br>BLACK AND WHITE PRINTING.  Project Number  2024-052 Issue Date 07-17-2024 Sheet Title  CITE SURVEY  Sheet Number  VF6101   |

SITE SURVEY NOTES:

1. THIS SHEET IS TAKEN FI

JOSH NIX SURVEYING PO BOX 175 HAMPTON, AR 71744 1-870-918-5918

- 2. THIS SHEET IS A PRESEN INFORMATION ONLY TO S OF THE SITE .
- 3. THE ORIGINAL FULL SUR BY JOSH NIX (AR, PLS 16

Lt

Pole

## TION NTS



## 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 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. PRIOR TO CLEARING, 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. ANY ITEMS SHOWN TO BE SALVAGED SHALL BE STORED AND REUSED AS SHOWN ON OTHER PLAN DRAWINGS OR RETURNED TO THE OWNER AND STORED AT THE OWNER'S DIRECTION.
- 16. 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.
- 17. 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.
- 18. CONTRACTOR SHALL PAY FOR ALL TRAFFIC CONTROL DEVICES AND PERSONNEL FOR ROAD CLOSURES AND DETOURS.
- 19. ALL EXISTING SIGNS AND POSTS TO BE REMOVED SHALL BE RELOCATED, STOCKPILED, OR REMOVED AS DIRECTED.
- 20. 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. PARKING LOT STRIPING SHALL BE 4" WIDE, WHITE NON-REFLECTIVE TRAFFIC PAINT. ZONE STRIPING SHALL BE @ 2' CENTERS AND AT 45° TO LINE OF TRAFFIC.
- 4. DIMENSIONS TO CURBS ARE TO BACK OF CURB. DIMENSIONS TO BUILDINGS ARE TO OUTSIDE FACE OF BUILDING WALL.
- 5. MINIMUM CURB RADIUS SHALL BE 2'.
- 6. 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.
- 7. PROVIDE EXPANSION JOINTS IN ALL CASES WHERE CONCRETE SURFACE MEETS VERTICAL STRUCTURES OR WHERE NEW CONCRETE SURFACE ABUTS EXISTING CONCRETE SURFACE.
- 8. 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.

- AUTHORITY.
- CONSTRUCTION.

## GRADING AND DRAINAGE NOTES:

- SEED HAS TAKEN ROOT.

- JURISDICTION

## UTILITY NOTES:

- THE GOVERNING AUTHORITY.
- CONSTRUCTION.
- IMMEDIATELY.

## SEDIMENTATION AND EROSION CONTROL NOTES:

- PRESERVATION FENCING.
- GRADING.
- GRADING.

9. ALL WORK DONE IN PUBLIC RIGHT-OF-WAY SHALL MEET THE REQUIREMENTS AND SPECIFICATIONS OF THE GOVERNING

10. THE CONTRACTOR IS RESPONSIBLE FOR ANY STREET SIGNS OR SIGNS IN RIGHT-OF-WAY THAT WERE REMOVED DURING CONSTRUCTION SHALL REPLACE/REINSTALL AS SOON AS PRACTICAL. TEMPORARY SIGNS SHALL BE INSTALLED DURING

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING NEWLY PAVED AREAS THAT SHOW DIFFERENTIAL SETTLEMENT OR RANDOM CRACKING AT ENGINEER'S DISCRETION.

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

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

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

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

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. PRIOR TO CLEARING, THE CONTRACTOR SHALL INSTALL EROSION CONTROL STRUCTURES AND DEVICES AND TREE

3. ALL AREAS WITHIN THE PARKING LOT 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.
- 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.
- 10. THE CONTRACTOR OR THEIR REPRESENTATIVE IS RESPONSIBLE FOR INFORMING ALL PARTIES ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE SWPPP.
- 11. THE LIMITS OF CLEARING, GRADING, AND DISTURBANCE, AS SHOWN ON THE PLAN(S), SHALL BE KEPT TO A MINIMUM WITHIN THE APPROVED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE THE LIMITS OF CONSTRUCTION SHALL REMAIN TOTALLY UNDISTURBED. PHASING SHALL BE USED TO MINIMIZE THE AMOUNT OF DISTURBED AREA AT ANY GIVEN TIME.
- 12. A COPY OF THE SWPPP AND INSPECTION REPORTS MUST BE DISPLAYED AT THE CONSTRUCTION SITE.
- A MINIMUM, MORE FREQUENTLY IF SEDIMENT TRACK OUT IS HEAVY. WASHING OF ACCUMULATED SEDIMENT INTO THE STORM DRAIN OR WATERWAYS IS PROHIBITED.
- 14. DUST SHALL BE CONTROLLED DURING CONSTRUCTION AND CONSTRUCTION AREAS SHALL BE WATERED WHENEVER CONDITIONS WARRANT.
- 15. 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 TOPSOIL STOCKPILES.
- 16. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE THROUGH AN APPROVED SEDIMENT CONTROL BMP, SUCH AS A PUMPED WATER FILTER BAG DISCHARGING OVER NON DISTURBED AREAS.
- 17. THE CONTRACTOR OR THEIR REPRESENTATIVE IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS OFF-SITE BORROW AND FILL AREAS.
- 18. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION MANAGEMENT PRACTICES TO ELIMINATE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT DEPOSITION.
- 19. THE CONTRACTOR OR THEIR REPRESENTATIVE SHALL STABILIZE ALL DISTURBED AREAS NOT SUBJECT TO CONSTRUCTION ACTIVITY WITHIN 14 CALENDAR DAYS AFTER ACTIVITY HAS CEASED. HOWEVER WITHIN THE RIPARIAN AREA, BANKS, ETC., SEEDING, MULCHING AND NEEDED FERTILIZATION SHOULD BE WITHIN THREE DAYS OF FINAL CONTOURING.
- 20. 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 MEASURES.
- 21. ALL DISTURBED AREAS NOT RECEIVING OTHER PERMANENT STABILIZATION SUCH AS PAVEMENT, ROOFS, SOD, ETC., SHALL AND PRIOR TO FINAL APPROVAL OF CONSTRUCTION
- 22. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.
- 23. AFTER FINAL STABILIZATION HAS BEEN ACHIEVED. TEMPORARY EROSION AND SEDIMENTATION CONTROLS SHALL BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS SHALL BE STABILIZED IMMEDIATELY.
- 24. SILT AND DEBRIS MUST BE REMOVED FROM STORM DRAINS, CONVEYANCE CHANNELS, BASINS OR ANY PART OF THE STORMWATER SYSTEM PRIOR TO FINAL SITE STABILIZATION APPROVAL.
- 25. THE FOLLOWING WILL BE IMPLEMENTED ACCORDING TO LOCAL, STATE, AND FEDERAL REGULATIONS: LIQUID AND SOLID WORK, VEHICLE FUELING, MAINTENANCE AND CLEANING, ASPHALT, SAWCUTTING, CORING, AND GRINDING ACTIVITIES, DISINFECTION, FLUSHING, DEWATERING, AND OTHER NON-STORMWATER DISCHARGES, HAZARDOUS WASTE MANAGEMENT, AND PROHIBITED DISCHARGES.

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

13. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE CLEANED AND SWEPT AT THE END OF EACH WORKING DAY AT

AND/OR SEDIMENT DEPOSITION, THE CONTRACTOR OR THEIR REPRESENTATIVE SHALL IMPLEMENT APPROPRIATE BEST

BE SEEDED AND MULCHED, AS SPECIFIED IN THE SWPPP BEFORE TEMPORARY SEDIMENT CONTROLS CAN BE REMOVED

PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST

WASTE MANAGEMENT, CHEMICAL AND MATERIAL DELIVERY AND STORAGE, CONCRETE WASTE, PAINTING AND DRYWALL BUILDING BLASTING AND CLEANING, CEMENT, GROUT AND MORTAR WORK, SANITARY AND SEPTIC WASTES, WATER LINE





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|        | Design Phase  CONSTRUCTION DOCUMENTS  Revisions No. Date Description   |
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|        | Issue Date<br>O7-17-2024<br>Sheet Title<br>SITE DEMOLITION PLAN<br>Sheet Number<br>CD101   |

Building (Existing guard



TYMETAL TYM-SL4000CD STRUCTURAL AUTOMATIC CANTILEVER SLIDE GATE SYSTEM WITH 28' CLEAR OPENING 150' C-501 RE-PAVE ROAD AS PART OF BID ALTERNATE NO. 1 REFER TO PROJECT MANUAL 201 24' PARKING COUNT: REGULAR PARKING SPACES: 26 HANDICAP PARKING SPACES: 2 TOTAL PARKING SPACES: 28



| Pos  | Guard<br>t - 2   |
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| Che  | No. 15927<br>07-17-2024  |
| Notes  | No. 15927<br>A L E S<br>07-17-2024<br>RCHITECTS ENGINEERS, INC.<br>ESERVED   |
| Notes<br>1. CROMWELL A<br>ALL RIGHTS RI<br>2. THIS SHEET DE<br>CRITICAL INFO   | RCHITECTS ENGINEERS, INC.<br>ESERVED   |
| Notes<br>1. CROMWELL A<br>ALL RIGHTS RI<br>2. THIS SHEET DE<br>CRITICAL INFO<br>BLACK AND W<br>Project Number  | RCHITECTS ENGINEERS, INC.<br>ESERVED<br>SIGNED FOR COLOR PRINTING.<br>ORMATION MAY BE LOST WITH<br>WHITE PRINTING.<br>2024-052               |
| Notes<br>1. CROMWELL A<br>ALL RIGHTS RI<br>2. THIS SHEET DE<br>CRITICAL INFO<br>BLACK AND V<br>Project Number<br>Issue Date<br>Sheet Title   | RCHITECTS ENGINEERS, INC.<br>ESERVED<br>SIGNED FOR COLOR PRINTING.<br>ORMATION MAY BE LOST WITH<br>WHITE PRINTING.<br>2024-052<br>07-17-2024 |

![](_page_10_Figure_0.jpeg)

![](_page_11_Figure_0.jpeg)

![](_page_11_Figure_1.jpeg)

![](_page_12_Figure_0.jpeg)

ALL MANHOLES IN PUBLIC RIGHT OF WAY SHALL HAVE PROVISIONS TO FACILITATE ANY NECESSARY ADJUSTMENTS IN HEIGHT.

![](_page_12_Figure_2.jpeg)

NOTE: SYMBOL TO BE PAINTED WITH WHITE NON-REFLECTIVE TRAFFIC PAINT

NOT TO SCALE

2

![](_page_12_Figure_6.jpeg)

NOTE: MANHOLES MAY BE CONSTRUCTED OF PRECAST REINFORCED CONC. OR POURED-IN-

![](_page_12_Picture_8.jpeg)

ALL INVERT FINISH- ING MORTAR ONLY. MASONRY CEMENT SHALL NOT BE

![](_page_12_Picture_12.jpeg)

l Project —

| AEROJET<br>New Guard<br>Post - 2  |  |  |  |  |
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| Design Phase  |  |  |  |  |
| CONSTRUCTION<br>DOCUMENTS         Revisions         No.       Date         Description  |  |  |  |  |
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| REGISTERED<br>No. 15927<br>No. 15927<br>No. 15927<br>No. 15927<br>No. 15927<br>CHARLES NUS  |  |  |  |  |
| 1. CROMWELL ARCHITECTS ENGINEERS, INC.  |  |  |  |  |
| ALL RIGHTS RESERVED<br>2. THIS SHEET DESIGNED FOR COLOR PRINTING.<br>CRITICAL INFORMATION MAY BE LOST WITH<br>BLACK AND WHITE PRINTING. |  |  |  |  |
| Project Number  |  |  |  |  |
| Issue Date 07-17-2024   |  |  |  |  |
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| LOCK PIN (TYP.                          | ) 1:10 1:5                                    | BARBED                        | Project                             |   |
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|   |   |                               | C <sub>H</sub> A                    | * * *<br>No. 15927                                |
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|   |   | KADE LINE                     | 1. CROMWELL ARCHI                   | TECTS ENGINEERS, INC.                             |
|   |   |                               | 2. THIS SHEET DESIGN                | ED FOR COLOR PRINTING.                            |
| PERSONN                                 | IEL GATE                                      |                               | BLACK AND WHITE<br>Project Number — | PRINTING.   |
| NO SCA                                  | LE  |                               | Issue Date ———                      | 2024-052  |
| GATE POST                               | SCHEDULE                                      |                               | Sheet Title                         |   |
| E LEAF WIDTH<br>NOMINAL)                | OUTSIDE DIMENSION<br>(NOMINAL)                |                               | SITE                                | DETAILS   |
| OR LESS                                 | 2.875" O.D.<br>2 5" SQ                        |                               | Sheet Number                        |   |
| [HAN 6' TO 13'                          | 4.0" O.D.                                     |                               |                                     |   |
| THAN 13' TO 18'                         | 6.625" O.D.<br>8.625" O.D.                    |                               |                                     | 503   |
|   | I   |                               |                                     | VVV   |

|                      | BREVIATIONS USED                              | STRUCTURAL DESIGN (   | CRITERIA                       |            |             |
|----------------------|---|---|--------------------------------|------------|-------------|
| #XX                  | NUMBER  | BUILDING CODE: 2021 ARKANSAS FIRE PREVENTION CODE (BAS  | SED ON 2021 IBC)               | <b>A</b> . | со          |
| λ.F.F.               | ABOVE FINISHED                                | RISK CATEGORY (2021 IBC TABLE 1604 5): II   |                                |            | 1.          |
| ADD'L                | ADDITIONAL                                    |   |                                |            |             |
| ADJ<br>ЛВСН          |   | GRAVITY LOADS (REFERENCE: 2021 IBC & ASCE 7-16):  |                                |            |             |
| 3.F.F.               | BELOW FINISHED                                | DEAD LOADS:   | UNIFORM                        |            | 2.          |
|                      |   |   | 10 PSF                         |            |             |
| BOT                  | BOTTOM  | COLLATERAL ROOF:  | 5 PSF                          |            |             |
| BTWN                 | BETWEEN                                       |   |                                |            |             |
| J                    | CONTROL/<br>CONSTRUCTION/                     | TYPICAL   | UNIFORM<br>100 PSF             |            | 3           |
| _                    | CONTRACTION JOINT                             |   |                                |            | 5.          |
| CL                   | CENTER LINE                                   | ROOF LIVE LOADS:  | 20 PSF (NON-REDUCIBLE)         |            | 001         |
| COL.                 | COLUMN  | RAIN LOADS:   |                                | В.         | <b>3P</b> 1 |
| CONC.                | CONCRETE                                      | 15 MINUTE DURATION / 100 YR RETURN PERIOD   | i15 = 6.75 IN./H               |            | 0           |
| CONT.                | CONTINUOUS                                    | 60 MINUTE DURATION / 100 TR RETURN FERIOD   | 100 – 5.00 IN./H               |            | 2.          |
| OBA                  | DEFORMED BAR                                  | SNOW LOADS:   |                                |            | _           |
| DIA                  | DIAMETER                                      | FLAT ROOF SNOW LOAD   | Pg = 10 PSF<br>Pf = 9 PSF      |            | 3.          |
| DTL                  | DETAIL  | SLOPED ROOF SNOW LOAD   | Ps = 9 PSF                     |            | 4.          |
| =.⊢.<br>=A           | EACH FACE<br>FACH                             | SNOW LOAD IMPORTANCE FACTOR   | Is = 1.00<br>Ce = 1.0          |            | 5           |
| ELEV.                | ELEVATION                                     | THERMAL FACTOR  | Ct = 1.2                       |            | 5.          |
| EW                   | EACH WAY                                      | LATERAL LOADS (REFERENCE: 2021 IBC & ASCE 7-16):  |                                |            | 6.          |
| -<br>ELR             | FLOOR   |   |                                |            | 7.          |
| =S<br>=TC            | FAR SIDE                                      |   |                                |            |             |
| G.C.                 | GENERAL                                       | NOMINAL WIND SPEED  | Val = 104 MPH                  | C.         | ST/         |
| ~ ^                  | CONTRACTOR                                    |   | C                              |            | 1.          |
| ja.<br>Galv          | GAUGE<br>GALVANIZFD                           | COMPONENTS & CLADDING WIND LOAD   | +/- 0.18<br>SEE SHEET S-002    |            | 2           |
| HORIZ.               | HORIZONTAL                                    |   |                                |            | ۷.          |
| ISS                  | ROUND, SQUARE, OR                             | SEISMIC:<br>SEISMIC IMPORTANCE FACTOR   | le = 1.00                      |            | 2           |
|                      | STRUCTURAL                                    | MAPPED SPECTRAL RESPONSE ACCELERATIONS  | Ss = 0.187                     |            | э.          |
|                      |   |   | S1 = 0.098                     |            |             |
| U<br>IT.             | JOINT   | DESIGN SPECTRAL RESPONSE ACCELERATIONS  | SDS = 0.200                    |            | 4           |
| K or k               | KIP (1,000 LBS)                               |   | SD1 = 0.156                    |            |             |
| 〈CJ                  | KEYED CONTROL                                 | SEISMIC DESIGN CATEGORY<br>SEISMIC FORCE RESISTING SYSTEM   | С                              |            | 5           |
| (SI                  | KIPS PER SQUARE                               |   |                                |            | 5.          |
|                      |   | STRUCTURAL STEEL SYSTEMS NOT SPECIFICALLY DET   | AILED FOR SEISMIC RESISTANCE / | D.         | GE!         |
| BS                   | POUNDS  |   |                                |            | ١.          |
| F                    | LINEAL FOOT                                   | DESIGN BASE SHEAR   | V = 0.066W / 0.100W            |            | 2.          |
| MANUF.<br>MATL.      | MATERIAL                                      | RESPONSE MODIFICATION COEFFICIENT   | R = 3/2                        |            | 3.          |
| MAX.                 | MAXIMUM                                       | ANALYSIS PROCEDURE  | EQUIVALENT LATERAL FORCE       |            |             |
| MECH.<br>MIN.        | MINIMUM                                       | SYSTEMS AND COMPONENTS REQUIRING SPECIAL INSPECTION   | : SEE SPECIFICATION SECTION    |            | 4.          |
| MISC                 | MISCELLANEOUS                                 | 014533  |                                |            | 5.          |
| N. T. S.<br>NS       | NOT TO SCALE<br>NEAR SIDE                     |   |                                |            | 6.          |
| Ø                    | DIAMETER                                      | STRUCTURAL DESIGN APPROACH:   |                                |            |             |
| J.C.<br>JPP          | ON CENTER<br>OPPOSITE                         | THIS PROJECT CONSISTS OF THREE INDEPENDENT STRUCTURE  | ES:                            |            | 7           |
| р.J.                 | PANEL JOINT                                   |   |                                |            |             |
| י∟<br>₽LBG           | PLATE<br>PLUMBING                             | THE GUARD POST IS A SINGLE STORY STEEL FRAME BUILDING.<br>DECK SUPPORTED BY STEEL WIDE FLANGE BEAMS THAT BEAR | ON WIDE FLANGE STEEL GIRDERS   |            | Q           |
| PSF                  | POUNDS PER SQ                                 | ROOF FRAMING IS SUPPORTED BY HSS COLUMNS. A SLAB ON G   | RADE IS USED THROUGHOUT THE    |            | υ.          |
| 120                  | FOOT<br>POLINDS PER SO INCH                   | BUILDING. STEEL MOMENT FRAMES PROVIDE LATERAL RESISTA   | ANCE FOR THE STRUCTURE. THE    |            | 9.          |
| REINF.               | REINFORCEMENT                                 |   |                                |            |             |
| REQ'D.               | REQUIRED                                      | THE HARDENED ROOM IS A SINGLE STORY REINFORCED MASO   |                                |            |             |
| SHT.                 | SHEET   | LATERAL RESISTANCE FOR THE STRUCTURE. THE HARDENED F  | ROOM HAS BEEN DESIGNED FOR     |            |             |
| SIM.                 | SIMILAR                                       | 250 MPH ULTIMATE WIND SPEED AND IS NOT AN ICC 500 SHELTE  | ER OR FEMA SAFE ROOM AND       | E.         | SH          |
| SPA.                 | SAVVIN JUIN I<br>SPACE                        |   |                                |            | 1.          |
| SQ                   | SQUARE  | THE CANOPY IS AN EXTERIOR STEEL FRAME STRUCTURE. THE  | ROOF CONSISTS OF A METAL DECK  |            |             |
| 51D.<br>F&R          | STANDARD<br>TOP AND BOTTOM                    | SUPPORTED BY STEEL WIDE FLANGE BEAMS THAT BEAR ON WI<br>FRAMING IS SUPPORTED BY HSS COLUMNS STEEL MOMENT FR   | DE FLANGE STEEL GIRDERS. ROOF  |            |             |
| Г.О.F.               | TOP OF FOOTING                                | RESISTANCE FOR THE STRUCTURE. THE ENTIRE STRUCTURE IS   | S SUPPORTED BY A SHALLOW       |            |             |
| ſ.O.S.               | TOP OF STEEL or TOP                           | FOUNDATION SYSTEM.  |                                |            |             |
| THRU                 | THROUGH                                       |   |                                |            |             |
| FYP.                 |   |   |                                |            |             |
| J.N.U.               | OTHERWISE                                     |   |                                |            |             |
| /ERT.                |   |   |                                |            | -           |
| лк V<br>/SC          | VERTICAL<br>VERTICAL SLIDING                  |   |                                |            | 2.<br>ว     |
|                      | CLIP  |   |                                |            | J.          |
| W.W.R.               | WELDED WIRE REINF.<br>WITH                    |   |                                |            |             |
| WP                   | WORK POINT                                    |   |                                |            |             |
|                      | SECTION/DETAIL "X"                            |   |                                |            | -           |
| V9-111               |   | •   |                                | 1          | Λ           |
| (X#                  | ON SHEET "S-YYY"<br>POUNDS                    |   |                                |            | 4.          |
| XS-TTT<br>XX#<br>ZRC | ON SHEET "S-YYY"<br>POUNDS<br>ZINC BASE PAINT |   |                                |            | 4.          |

## CTOR DELEGATED DESIGN COMPONENTS:

FOLLOWING ITEMS ARE NOTED AS A DELEGATED DESIGN COMPONENT AND SHALL BE DESIGNED BY THE TRACTOR. THE CONTRACTOR SHALL EMPLOY A SPECIALTY STRUCTURAL ENGINEER LICENSED IN THE STATE OF ANSAS TO DESIGN THE FOLLOWING ITEMS:

## SHORING AND TEMPORARY STRUCTURES COLD-FORMED STEEL FRAMING

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR EACH DELEGATED DESIGN COMPONENT STRUCTURAL DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY THE SPECIALTY STRUCTURAL INEER. THE DRAWINGS SHALL BE REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR AND THE DESIGN INEER PRIOR TO SUBMITTAL. INCOMPLETE SHOP DRAWINGS AND SHOP DRAWINGS THAT HAVE NOT BEEN EWED BY THE CONTRACTOR AND THE SPECIALTY STRUCTURAL ENGINEER WILL BE RETURNED WITHOUT REVIEW HE ARCHITECT/ENGINEER.

CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL DELEGATED DESIGN COMPONENTS AND THEIR ESSORIES WITH OTHER TRADES TO AVOID CONFLICTS, e.g., FIRE SUPPRESSION SYSTEMS.

## **INSPECTIONS:**

LIFIED INSPECTORS SHALL CONDUCT SPECIAL INSPECTIONS AND TESTS AND FURNISH REPORTS AS SPECIFIED IN TION 014533 AND IN ACCORDANCE WITH CHAPTER 17, INTERNATIONAL BUILDING CODE CONTRACTOR SHALL COORDINATE THE SPECIAL INSPECTIONS AND TESTING SERVICES WITH THE PROGRESS OF WORK, PROVIDE THE APPROPRIATE DOCUMENTATION AND PERFORM OTHER TASKS AS SPECIFIED IN SECTION

STRUCTION THAT REQUIRES CONTINUOUS INSPECTION PER SECTION 014533 CAN NOT PROGRESS WITHOUT ECTORS PRESENT

CONTRACTOR IS RESPONSIBLE FOR ALL OTHER INSPECTIONS OR TESTS IN THE SPECIFICATIONS NOT LISTED IN SCHEDULE OF SPECIAL INSPECTION SERVICES IN SECTION 014533.

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

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

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

## Y DURING CONSTRUCTION, SHORING, & TEMPORARY STRUCTURES:

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

VIDE STABILITY TO ALL NON-SELF-SUPPORTING ELEMENTS UNTIL PERMANENT STRUCTURAL SUPPORTS ARE ALLED. PROVIDE BRACING, SHORING, AND/OR TEMPORARY STRUCTURES AS REQUIRED IN ORDER TO SATISFY THE TRACT REQUIREMENTS.

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

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

## **REQUIREMENTS:**

JCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH DRAWINGS RELATING TO OTHER TRADES. CHECK AND RDINATE DIMENSIONS, CLEARANCES, OPENINGS, PIPE SLEEVES, CURBS, ETC. WITH THE WORK OF OTHER TRADES. K NOT INDICATED ON A PART OF THE DRAWING BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT RESPONDING PLACES SHALL BE REPEATED.

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

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

DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS. SECTIONS AND DETAILS.

CIPAL OPENINGS THROUGH THE FRAMING ARE SHOWN ON THESE DRAWINGS. EXAMINE THE DRAWINGS FOR UIRED OPENINGS AND PROVIDE FOR ALL OPENINGS WHETHER SHOWN ON THE STRUCTURAL DRAWINGS OR NOT FY SIZE AND LOCATION OF ALL OPENINGS WITH ALL SUB-CONTRACTORS. PIPE SLEEVES THROUGH THE DECK WILL REQUIRE ADDITIONAL FRAMING UNLESS THE DIAMETER EXCEEDS 10".

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

HANGE IN SIZE OR POSITION OF THE STRUCTURAL ELEMENTS SHALL BE MADE: HOLES, SLOTS, CUTS, ETC., ARE PERMITTED THROUGH ANY MEMBER UNLESS THEY ARE DETAILED ON THE APPROVED SHOP DRAWINGS. JRE THAT ALL CONSTRUCTION LOADS DO NOT EXCEED THE DESIGN LIVE LOADS INDICATED ON THE STRUCTURAL WINGS AND THAT THESE LOADS ARE NOT PUT ON THE STRUCTURAL MEMBERS PRIOR TO THE TIME THAT THE CRETE REACHES THE FULL DESIGN STRENGTH AND ALL FRAMING MEMBERS AND THEIR CONNECTIONS ARE IN . THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE ADEQUACY OF SLABS ON GRADE FOR PORTING ALL CONSTRUCTION EQUIPMENT. INCLUDING AREAL LIFTS.

## AWINGS:

MIT SHOP DRAWINGS FOR REVIEW BY THE ARCHITECT/ENGINEER FOR THE FOLLOWING ITEMS. REFER TO PROJECT CIFICATIONS FOR ADDITIONAL REQUIREMENTS:

- CONCRETE REINFORCING STEEL INDICATE ALL REINFORCING STEEL IN FOUNDATIONS AND SLABS ON GRADE
- INDICATE ALL HORIZONTAL, VERTICAL, AND TIE REINFORCING
- INDICATE TYPE AND LOCATION OF ALL REINFORCING STEEL SPLICES
- CONCRETE MASONRY
- INDICATE VERTICAL REINFORCING LOCATION AND METHOD OF SPLICE.
- INDICATE LOCATION OF CORES FILLED WITH GROUT.
- INDICATE BOND BEAM REINFORCING LOCATIONS, LENGTH, AND SPLICES.
- STRUCTURAL STEEL
- METAL DECKING

COLD-FORMED STEEL FRAMING MIT OTHER SHOP DRAWINGS FOR REVIEW BY ARCHITECT/ENGINEER AS REQUIRED BY PROJECT SPECIFICATIONS. AILS FOR SOME SPECIAL CONDITIONS WILL NEED TO BE DEVELOPED BY THE DETAILER DURING THE DETAILING CESS. FINAL REVIEW OF THE DETAILS WILL BE AT THE DISCRETION OF THE ENGINEER OF RECORD. NO ADDITIONAL RGES FOR MAKING CORRECTIONS, CHANGES, OR ADDITIONS TO THE SHOP DRAWINGS ("RE-DETAILING COST") WILL LLOWED. CONTRACTOR SHALL MAKE PROVISIONS FOR DETAILING CORRECTIONS AND MISCELLANEOUS MATERIAL IE BID PRICE. ADJUSTMENTS TO THE CONTRACT WILL ONLY BE MADE FOR CHANGE ORDERS APPROVED PRIOR TO COMMENCEMENT OF ANY ACTION ON THE CHANGES.

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

FY AND COORDINATE ALL DIMENSIONS AND ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS WITH

HITECTURAL DRAWINGS. IN CASE OF CONFLICTS, THE ARCHITECT/ENGINEER IS TO BE NOTIFIED AND WILL PROVIDE THE CORRECT ELEVATIONS AND DIMENSIONS FOR WHICH SHALL BE INCORPORATED INTO THE SHOP DRAWINGS AT NO EXTRA COST.

## F. EARTHWORK:

- UES (PROJECT NO. A24184.00054).
- a. CONTINUOUS FOOTINGS:

1300 East 6th Street Little Rock, AR 72202 501.372.2900 cromwell.com 1. FOUNDATION DESIGN IS BASED ON SOIL INVESTIGATION AND REPORT BY GRUBBS, HOSKYN, BARTON & WYATT, LLC, dba 2. FOUNDATION DESIGN IS BASED ON THE FOLLOWING MINIMUM NET ALLOWABLE BEARING PRESSURE: Project 1.5 KSF b. INDIVIDUAL PAD FOOTINGS: 2.0 KSF ALL FOUNDATION BEARING CONDITIONS SHALL BE VERIFIED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO AEROJET CONSTRUCTION 3. BOTTOM OF FOUNDATION ELEVATIONS ARE GIVEN FOR BIDDING PURPOSES ONLY. ALL FOUNDATIONS SHALL BE FOUNDED A MINIMUM OF 2 FEET BELOW ADJACENT GRADE IN PROPERLY COMPACTED FILL. New Guard 4. THE SITE SHALL BE STRIPPED A MINIMUM OF 6", PROOF ROLLED, COMPACTED FILL PLACED, AND EXCAVATED AS REQUIRED FOR FOUNDATION. SEE SPECIFICATION DIVISION 31 FOR EARTHWORK REQUIREMENTS. 5. REMOVE 2 FEET OF EXISTING SUB GRADE MATERIAL UNDER THE BUILDING (EXTENDING 5 FEET BEYOND THE BUILDING Post - 2 PERIMETER) IN AREAS IDENTIFIED TO BE SOFT, THAT EXHIBIT PUMPING OR ARE OTHERWISE UNSUITABLE AFTER PROOF ROLLING AND BACKFILL AS PER SPECIFICATION DIVISION 31, EARTHWORK, USING SPECIFIED BORROW MATERIAL THE SILTY FINE SAND AND FINE SANDY SILT ARE HIGHLY MOISTURE SENSITIVE AND WILL EXHIBIT REDUCED STABILITY WHEN SATURATED. THOUGH SITE CONDITIONS WILL VARY SIGNIFICANTLY WITH SEASONAL PRECIPITATION AND SURFACE RUNOFF, SITE GRADING OPERATIONS WILL BE SIGNIFICANTLY EASIER TO PERFORM DURING DRY SEASONS OF THE YEAR. POSITIVE SURFACE AND SUBSURFACE DRAINAGE SHOULD BE ESTABLISHED AT THE START OF CONSTRUCTION. MAINTAINED DURING THE WORK, AND INCORPORATED INTO FINAL DESIGN TO PREVENT SURFACE WATER PONDING AND SUBSEQUENT SATURATION OF SUBGRADE SOILS. DENSITY AND WATER CONTENT OF ALL EARTHWORK SHOULD BE MAINTAINED UNTIL THE FOUNDATION AND PAVEMENTS ARE COMPLETED. SUBGRADE SOILS THAT BECOME SATURATED BY PONDING WATER OR RUNOFF SHOULD BE EXCAVATED TO SUITABLE MATERIAL TAKE ADEQUATE MEASURES TO ALLOW FOR WORKING SURFACE DURING CONSTRUCTION OF FOUNDATIONS AND SLAB-ON-GRADE, SUCH AS GRAVEL BED OF ADEQUATE DEPTH, ETC. 8. PROVIDE EARTH RETENTION SYSTEMS AND TEMPORARY BRACING OR SHORING (INCLUDING UNDERPINNING) AS REQUIRED TO SUPPORT EXCAVATIONS AND TO PROTECT EXISTING STRUCTURES DURING CONSTRUCTION. TRENCHING AND EXCAVATIONS SHALL MEET ALL OSHA REQUIREMENTS. 9. WATER ACCUMULATION IS ANTICIPATED IN FOOTING EXCAVATIONS; PROVIDE DRAINAGE OF EXCAVATIONS FROM SURFACE WATER AND SEEPAGE. EXCAVATIONS SHALL BE DRAINED OR PUMPED DRY BEFORE POURING CONCRETE. 10. PROTECT ALL UTILITY LINES, ETC. ENCOUNTERED DURING EXCAVATION AND BACKFILLING. 11. NO BACKFILLING SHALL BE DONE AGAINST FOUNDATION WALLS UNTIL CONCRETE HAS ATTAINED ITS FULL DESIGN STRENGTH. BEFORE BACKFILLING, PROVIDE BRACING FOR WALLS SUSTAINING MORE THAN 3'-0" OF EARTH PRESSURE. Design Phase THIS BRACING SHALL REMAIN IN PLACE UNTIL SLAB ON GRADE HAS BEEN PLACED AND CURED **CONSTRUCTION** 12. IN NO CASE SHALL BULLDOZERS OR OTHER HEAVY EQUIPMENT BE PERMITTED CLOSER THAN 8'-0" FROM ANY FOUNDATION WALL DOCUMENTS Revisions THE DESIGN OF THE CONCRETE STRUCTURE IS BASED ON ACI318-19 BUILDING CODE REQUIREMENTS FOR STRUCTURAL Date Description CONCRETE. 2. CAST IN PLACE CONCRETE SHALL HAVE THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTHS (fc): COMPONENT COMPRESSIVE STRENGTH FOOTINGS 3500 PSI INTERIOR SLABS ON GRADE 3500 PSI SLABS ON STEEL DECK 3500 PSI SEE SPECIFICATION SECTION 033000 FOR ADDITIONAL MIX DESIGN REQUIREMENTS 3. ALL DEFORMED REINFORCING STEEL SHALL BE A615 GRADE 60 STEEL, U.N.O. 4. ALL WELDED WIRE REINFORCING STEEL SHALL BE A1064. ALL WELDED WIRE REINFORCEMENT SHALL BE PROVIDED IN SHEETS. 5. ALL CONCRETE WORK SHALL CONFORM TO THE LATEST ACI CODE AND ACI DETAILING MANUAL MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE: CONCRETE CAST AGAINST EARTH: CONCRETE EXPOSED TO EARTH OR WEATHER: #5 BARS AND SMALLER:  $1\frac{1}{2}$ Stamp #6 BARS AND LARGER: SLABS, WALLS, AND JOISTS: **BEAMS AND COLUMNS:** ALL CONCRETE CONSTRUCTION AND MATERIALS SHALL BE PLACED ACCORDING TO ACI 117 TOLERANCES. CROMWELL 8. ALL CONCRETE REINFORCING STEEL SHALL BE SPLICED USING TENSION SPLICES: ARCHITECTS/ a. UNLESS NOTED OTHERWISE, LAP SPLICE ALL CONCRETE REINFORCING STEEL: ENGINEERS #5 BARS #6 AND SMALLER: **48 BAR DIAMETERS** BARS #7 AND LARGER: **60 BAR DIAMETERS** WELDED WIRE REINFORCING: ONE MESH PLUS 2" b. ONLY APPROVED MECHANICAL SPLICE SYSTEMS SHALL BE USED TO PROVIDE TENSION SPLICES. MECHANICAL SPLICES SHALL DEVELOP 125% OF THE YIELD STRENGTH OF THE BAR. 9. ALL CONCRETE REINFORCING SHALL BE SPLICED WHERE DETAILED ON THE DRAWINGS. UNLESS NOTED OTHERWISE: ARKANSAS LAP GRADE BEAM TOP REINFORCEMENT AT CENTER OF SPAN. buelt talle b. LAP GRADE BEAM BOTTOM REINFORCEMENT AT SUPPORT. ENGINEER c. STAGGER ALL TENSION LAP SPLICE LOCATIONS \* \* \* 10. TERMINATE CONTINUOUS BARS AT NON-CONTINUOUS END WITH STANDARD HOOKS. No. 9668 11. PROVIDE CORNER BARS IN ALL CONCRETE MEMBERS AT INTERSECTIONS. MATCH SIZE AND SPACING OF HORIZONTAL BARS IN THOSE MEMBERS. 07-17-2024 12. ALL REINFORCING STEEL SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. ADDITIONAL BARS OR STIRRUPS SHALL BE PROVIDED AS REQUIRED TO FURNISH SUPPORT FOR ALL REINFORCING STEEL 13. PROVIDE SUPPORT FOR ALL CONCRETE REINFORCING (INCLUDING SLABS ON GRADE AND ELEVATED COMPOSITE SLABS) . CROMWELL ARCHITECTS ENGINEERS, INC. AS REQUIRED TO MAINTAIN CLEAR COVER DIMENSIONS. SPACING SHALL NOT EXCEED 3'-0" **ALL RIGHTS RESERVED** 14. SUBMIT DRAWINGS SHOWING INTENDED POURING SEQUENCE AND LOCATION OF CONSTRUCTION JOINTS TO THE ARCHITECT/ENGINEER FOR APPROVAL. 2. THIS SHEET DESIGNED FOR COLOR PRINTING. CRITICAL INFORMATION MAY BE LOST WITH 15. HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE PERMITTED UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL **BLACK AND WHITE PRINTING.** DRAWINGS. HORIZONTAL OR NEAR HORIZONTAL JOINTS SHALL BE PREPARED BY ROUGHENING THE SURFACE IN AN APPROVED MANNER SO THAT THE AGGREGATE IS EXPOSED UNIFORMLY, LEAVING NO LAITANCE, LOOSENED PARTICLES, oject Number – OR DAMAGED CONCRETE. 2024-052 Issue Date 16. PIPES OR CONDUITS PLACED IN FOUNDATIONS AND SLABS SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS ON 07-17-2024 CENTERS. PIPES AND CONDUITS PLACED IN SLAB SHALL NOT HAVE AN OUTSIDE DIAMETER LARGER THAN 1/3 OF SLAB Sheet Title THICKNESS. ALUMINUM CONDUITS SHALL NOT BE PLACED IN CONCRETE. NO CONDUIT SHALL BE PLACED WITHIN 24" OF COLUMN FACE. STRUCTURAL DESIGN 17. LOCATION OF SLOTTED INSERTS, WELD PLATES AND ALL OTHER ITEMS TO BE EMBEDDED IN CONCRETE SHALL BE COORDINATED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. **CRITERIA AND** GENERAL NOTES 19. VERIFY DIMENSIONS AND LOCATIONS OF ALL OPENINGS, PIPE SLEEVE CURBS, ETC., AS REQUIRED BY OTHER TRADES BEFORE CONCRETE IS PLACED. 20. AGGREGATE FOR CONCRETE SHALL NOT CONTAIN LIGNITE, STEEL, OR OTHER MATERIALS THAT MAY BE DETRIMENTAL TO Sheet Number THE CONCRETE. ALKALI-SILICA REACTIVE (ASR) AGGREGATES ARE NOT ALLOWED. 21. MAXIMUM TOLERANCE FOR SLAB EDGES IS 1/2" +/- EXCEPT WHERE TIGHTER TOLERANCE IS REQUIRED FOR ARCHITECTURAL REASONS. 22. CONCRETE SHALL BE PLACED AND CURED IN ACCORDANCE WITH THE SPECIFICATIONS. WHEN THE AIR TEMPERATURE IS OVER 85 DEGREES FOLLOW THE RECOMMENDATIONS OF ACI 305R. WHEN THE AIR TEMPERATURE IS BELOW 40 DEGREES

## CONCRETE AND REINFORCING STEEL:

- 18. REINFORCING BARS SHALL NOT BE WELDED

- FOLLOW THE RECOMMENDATIONS OF ACI 306R.
- AWS D1.1. STUDS AND DEFORMED BAR ANCHORS SHALL NOT BE FILLET WELDED.

23. STUDS AND DEFORMED BAR ANCHORS SHALL BE WELDED USING A WELDING GUN IN ACCORDANCE WITH CHAPTER 7 OF

| H. | MASONRY WALLS:   | TMS 402-16 BUILDING CODE REQU   | JIREMENTS FOR MASONRY STRUCTURES.  |
|----|--|---|--|
|    | <ol> <li>SPECIFIED DESIGN COMPRESSIVE STRENGTH: fm = 2</li> <li>CONCRETE BLOCK SHALL CONFORM TO ASTM C-90, I</li> <li>MORTAR SHALL CONFORM TO ASTM C-270.</li> </ol>   | 2,000 PSI. PER THE UNIT STRENG<br>NORMALWEIGHT UNITS.   | TH METHOD.   |
|    | <ul> <li>a. TYPE S: LOAD-BEARING WALL</li> <li>5. GROUT SHALL CONFORM TO ASTM C476. GROUT SLU</li> <li>6. PROVIDE TEMPORARY BRACING FOR ALL MASONRY 1</li> </ul>   | JMP SHALL BE BETWEEN 9" AND "<br>WALLS UNTIL PERMANENT LATER  | 11". MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHAL<br>RAI SUPPORT IS COMPLETE.  |
|    | <ol> <li>PIPES, CONDUIT, AND OTHER ITEMS SHALL NOT BE P</li> <li>FILL ALL BOND BEAMS, CELLS CONTAINING VERTICAL<br/>CONSOLIDATED AND RECONSOLIDATED BY USE OF (</li> </ol>   | LACED IN MASONRY CELLS WITH<br>BARS, AND CELLS CONTAINING   | VERTICAL OR HORIZONTAL REINFORCING.<br>EXPANSION ANCHORS, STEEL EMBEDS, OR OTHER ANCHO   |
|    | <ol> <li>9. DO NOT PLACE LOADS ON BOND BEAMS OR MASONR</li> <li>10. MASONRY CONSTRUCTION SHALL NOT PROGRESS W<br/>CONTRACTOR SHALL BE RESPONSIBLE FOR COST OF<br/>TESTING.</li> </ol>  | VITHOUT PERIODIC AND CONTINU<br>F DEMOLITION, RECONSTRUCTIO   | ITIL THE GROUT HAS CURED FOR A MINIMUM OF 3 DAYS.<br>OUS INSPECTION AND TESTING AS SPECIFIED IN THE SCH<br>N, INSPECTION AND TESTING OF ANY MASONRY CONSTRU  |
| I. | <b>STRUCTURAL STEEL:</b><br>1. THE DESIGN OF STRUCTURAL STEEL IS BASED ON AI   | SC 360-16, SPECIFICATION FOR S  | TRUCTURAL STEEL BUILDINGS.   |
|    | 2. ALL STEEL MEMBERS SHALL CONFORM TO:<br>SECTION  | ASTM STANDARD   | YIELD STRENGTH   |
|    | WIDE FLANGE  | A992  | 50 KSI   |
|    | RECTANGULAR AND SQUARE HSS   | A572<br>A500 GRADE C OR A1085   | 50 KSI<br>50 KSI   |
|    | 3. ALL BOLTED CONNECTIONS FOR STRUCTURAL STEE<br>NOTED OTHERWISE "HIS BOILTS" DESIGNATES F1852   | L TO STEEL SHALL BE ASTM F312<br>BOLT ASSEMBLIES  | 5, GRADE F1852 "TWIST-OFF" STYLE TENSION CONTROL B   |
|    | <ol> <li>ALL WELDING ELECTRODES FOR STRUCTURAL AND I</li> <li>COLUMN ANCHOR RODS SHALL CONFORM TO ASTM<br/>HEX NUT AT THE BOTTOM TACK WELDED TO THE RO</li> </ol>  | MISCELLANEOUS STEEL SHALL C<br>F1554 GRADE 36. ANCHOR RODS<br>D. UNLESS NOTED OTHERWISE.  | ONFORM TO AWS A5.1 GRADE E-70 BARE ELECTRODES.<br>SHALL HAVE A PLATE WASHER PER AISC TABLE 14-1 AND  |
|    | <ol> <li>PLACE AND SECURE ANCHOR RODS IN FOOTING EXC</li> <li>PROVIDE LEVELING NUTS OR SHIM PACKS AS REQUI<br/>PLACING GROUT UNDER BASE PLATE.</li> </ol>  | CAVATION PRIOR TO POURING CO<br>RED TO LEVEL COLUMN BASE PL/  | NCRETE FOR FOOTING. DO NOT PLACE ANCHOR RODS IN<br>ATES. IF SHIM PACKS ARE USED, ENCASE SHIM PACKS WIT   |
|    | 8. CONNECTION DETAILING:   |   |  |
|    | <ul> <li>b. THE FABRICATOR'S STEEL DETAILED AS INDICATE</li> <li>b. THE FABRICATOR'S STEEL DETAILER SHALL SEL</li> <li>1. TYPICAL STEEL BEAM AND GIRDER TO COLU</li> <li>2. TYPICAL STEEL BEAM-TO-BEAM CONNECTION</li> </ul>   | ECT AND COMPLETE TYPICAL CO<br>JMN CONNECTIONS: DETAIL 3/S-5<br>INS: DETAIL 2/S-501.  | NNECTIONS BASED ON THE PLANS AND THE FOLLOWING:<br>01.   |
|    | <ol> <li>TYPICAL CONNECTIONS SHALL USE, AS A MI</li> <li>IF BEAM END REACTIONS ARE LARGER THAT</li> </ol>  | NIMUM, THE NUMBER OF BOLTS IN THE CAPACITY INDICATED IN TH  | NDICATED IN THE TYPICAL DETAILS.<br>IE SCHEDULES THE ARCHITECT/ENGINEER SHALL BE NOT   |
|    | c. ANY NON-TYPICAL CONNECTIONS THAT ARE NO<br>BE DONE BY A PROFESSIONAL ENGINEER LICEN   | T DETAILED IN THE DRAWINGS SH<br>SED IN THE STATE OF ARKANSAS   | ALL BE DESIGNED BY THE FABRICATOR FOR THE LOADS  |
|    | <ul><li>ENGINEER AND SUBMITTED TO THE ARCHITECT/</li><li>9. ALL STEEL FABRICATION AND ERECTION SHALL BE P</li></ul>  | ENGINEER FOR APPROVAL.<br>ERFORMED IN ACCORDANCE WIT  | TH THE AISC CODE OF STANDARD PRACTICE.   |
|    | 10. THE STRUCTURAL STEEL FRAMING FABRICATOR SHA<br>11. ALL STEEL DETAILS SHALL BE IN ACCORDANCE WITH   | ALL BE AN AISC CERTIFIED BUILD  | ING FABRICATOR (BU).<br>EST AISC SPECIFICATIONS WITH LATEST REVISIONS.   |
|    | <ol> <li>SUPPLY STRUCTURAL STEEL FRAMING CONNECTION<br/>CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRIT</li> <li>THE MINIMUM PLATE THICKNESS SHALL BE 1/4", THE</li> </ol>  | IS THAT COMPLY WITH OSHA STA<br>FING ADVISING OF ANY REQUIRED<br>MINIMUM WELD SHALL HAVE A 1/   | NDARDS. IF MEETING THESE STANDARDS CONFLICTS WIT<br>D REVISIONS AND ACQUIRE THE ENGINEER'S APPROVAL B<br>4" THICK THROAT, THE MINIMUM BOLT DIAMETER SHALL B  |
|    | TWO BOLTS, U.N.O.<br>14. ALL COLUMN BEARING PLATES SHALL BE SIZED AS S<br>OF HOLES, AND SIZES OF HOLES SHALL BE AS PER A   | HOWN ON DETAIL 1/S-303 AND SH   | HALL HAVE ROLLED OR GAS CUT EDGES. MINIMUM EDGE I<br>HERWISE.  |
|    | 15. PROVIDE WELDED STIFFENER PLATES ON BOTH SIDE<br>THICKNESS OF COLUMNS ABOVE OR BELOW, WHICH   | ES OF THE WEB OF BEAMS AT PO<br>EVER IS GREATER, U.N.O.   | INTS OF CONCENTRATED LOAD. MINIMUM STIFFENER PLA   |
|    | <ol> <li>PROVIDE 1/2" MINIMUM THICKNESS STIFFENERS ON A</li> <li>ALL STEEL NOT REQUIRED TO BE SHOP PAINTED (SE</li> <li>GALVANIZING OF ALL STEEL MEMBERS SHALL CONFO</li> <li>ALL WELDING SHALL BE PERFORMED BY CERTIFIED A</li> <li>SPECIFICATIONS. WELDING INSPECTION SHALL BE PERFORMED</li> <li>EINAL BOLTING OR WELDING SHALL NOT BE PERFORMED</li> </ol>   | ALL BEAMS RUNNING OVER TOPS<br>E SPECIFICATIONS) SHALL BE CL<br>ORM TO ASTM A123. ALL GALVAN<br>WELDERS IN ACCORDANCE WITH<br>ERFORMED BY AN AWS CERTIFIE<br>MED LINTIL THE STRUCTURE HAS | OF COLUMNS. MINIMUM SIZE OF WELD TO BE 1/4" FILLET<br>EANED OF OIL, GREASE, DIRT, RUST, LOOSE MILL SCALE,<br>IZED STEEL REQUIRED TO BE PAINTED SHALL BE CLEANE<br>AWS SPECIFICATIONS LATEST EDITIONS. WELDING SHAL<br>D WELDING INSPECTOR. |
| 1  |  |   |  |
| J. | <ol> <li>THE DESIGN, FABRICATION, AND ERECTION OF STEE</li> <li>a. STEEL ROOF DECK: ANSI/SDI RD-2017, STANDAR</li> <li>2. STEEL DECKING FOR THE CONSTRUCTION OF ROOF</li> </ol>  | L DECKING SHALL CONFORM TO<br>RD FOR STEEL ROOF DECK.<br>DIAPHRAGMS IS BASED ON THE S   | THE MINIMUM REQUIREMENTS OF THE LATEST SDI STAND   |
|    | <ul> <li>DESIGN OF PROFILED STEEL DIAPHRAGM PANELS.</li> <li>3. STEEL DECK SHALL BE ATTACHED TO SUPPORTING S</li> </ul>  | STEEL AS INDICATED ON:  |  |
|    | <ol> <li>4. ROOF DECK. DETAIL 1/3-501.</li> <li>4. ROOF DECK AND FORM DECK ENDS SHALL BE BUTTE</li> <li>5. DO NOT SUPPORT ROOFTOP EQUIPMENT OR EQUIPM</li></ol> | ED OR LAPPED OVER SUPPORTS.<br>MENT CURBS DIRECTLY FROM RC  | OF DECK. ATTACH CURBS DIRECTLY TO STRUCTURAL ST  |
|    | <ol> <li>PROVIDE SUPPORT FOR METAL DECK AROUND COLL</li> <li>PROVIDE MINIMUM 3/16" X 8" BENT PLATES AT HIPS, V</li> <li>SUSPENDED CEILINGS, LIGHT FIXTURES, EQUIPMENT</li> </ol>   | JMNS, SCREED PLATES AROUND<br>/ALLEYS, AND RIDGES AS REQUIF<br>[. DUCTS. OR OTHER UTILITIES SI  | OPENINGS, AND EDGES OF SLABS.<br>RED TO SUPPORT AND CONNECT DECK TO STRUCTURE.<br>HALL NOT BE SUPPORTED BY THE STEEL ROOF DECK.  |
| ĸ  |  |   |  |
| n. | <ol> <li>THE DESIGN OF THE COLD FORMED STEEL FRAMING<br/>MEMBERS.</li> </ol>   | SHALL BE BASED ON AISI S100-1   | 6 w/S2-20, NORTH AMERICAN SPECIFICATION FOR THE DES  |
|    | 2. COLD-FORMED STEEL STUDS SHALL CONFORM TO T<br>MINIMUM OF 18 GAUGE. LIMIT DEFLECTION OF STUDS  | HE REQUIREMENTS ON THE ARCI<br>S TO L/240.  | HITECTURAL AND STRUCTURAL DRAWINGS. EXTERIOR CO  |
|    | <ol> <li>EXTERIOR NON LOAD-BEARING STEEL STUDS SHALL</li> <li>ALL MATERIAL SHALL BE COLOR CODED TO INDICATE</li> </ol>   | BE CONNECTED TO THE BUILDIN<br>THE GAUGE OF THE MATERIAL.   | G FRAME WITH RIGID CLIPS OR VERTICAL SLIDE CLIPS AS  |
| L. | POST-INSTALLED ANCHORS IN CONCRETE OR MASONRY  | :<br>SIVE) SHALL ONLY RELIGED WHEN  |  |
|    | THE ENGINEER-OF-RECORD PRIOR TO INSTALLING F<br>BE BUILDING CODE COMPLIANT, INSTALLED IN ACCO<br>REPORT. SEE SPECIFICATIONS SECTIONS 033000 AN   | POST-INSTALLED ANCHORS IN PLA<br>RDANCE WITH THE MANUFACTUF<br>D 042900 FOR ADDITIONAL INFOR  | ACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHOR<br>RER'S WRITTEN INSTRUCTIONS AND INSPECTED PER THE<br>MATION.  |
|    |  |   |  |

ALL BE 2500 PSI.

HORS WITH COARSE GROUT. ALL GROUT SHALL BE

HEDULE OF SPECIAL INSPECTIONS. THE

RUCTED WITHOUT THE SPECIFIED INSPECTIONS AND

BOLT ASSEMBLIES (SHOP AND FIELD), UNLESS

D ONE HEAVY HEX NUT AT THE TOP AND ONE HEAVY

WET CONCRETE. ITH 1" MIN COVER OF NON-SHRINK GROUT WHEN

DTIFIED FOR GUIDANCE. S INDICATED IN THE DRAWINGS. THE DESIGN SHALL BE SIGNED AND SEALED BY THE PROFESSIONAL

ITH ANYTHING SHOWN IN THESE DRAWINGS THE BEFORE PROCEEDING WITH THE WORK. BE 3/4", AND THE MINIMUM CONNECTION SHALL BE

E DISTANCE TO CENTER OF BOLT HOLE, SPACING

LATE THICKNESS TO BE 1/2" OR FLANGE

WELD, U.N.O. , ETC. AND ALL OTHER FOREIGN MATERIALS.

IED AND PREPPED ACCORDING TO ASTM D6386. ALL BE INSPECTED AND TESTED AS NOTED IN THE

DARDS AND SPECIFICATIONS:

AISI S310, NORTH AMERICAN STANDARD FOR THE

STEEL SUPPORTS OR PROVIDE TREATED BLOCKING

ESIGN OF COLD-FORMED STEEL STRUCTURAL

COLD-FORMED STEEL WALL STUDS SHALL A

S SHOWN ON THE STRUCTURAL DETAILS.

E CONTRACTOR SHALL OBTAIN APPROVAL FROM RS OR DOWELS. POST-INSTALLED ANCHORS SHALL E APPLICABLE ICC-ES OR IAPMO UES EVALUATION

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Project

![](_page_15_Picture_60.jpeg)

![](_page_16_Figure_0.jpeg)

# 1 CANOPY COMPONENTS AND CLADDING WIND PRESSURE PLAN

![](_page_16_Figure_2.jpeg)

| ZONE | _ TRIBUTARY AREA (SQ. FT.) |             |             |
|------|----------------------------|-------------|-------------|
| ZUNE | 10                         | 50          | 100         |
| 4    | -26/+24 PSF                | -23/+21 PSF | -22/+20 PSF |
| 5    | -31/+24 PSF                | -27/+21 PSF | -25/+20 PSF |

![](_page_16_Picture_4.jpeg)

- NOTES: 1. ULTIMATE WIND SPEED: 104 MPH 2. NOMINAL WIND SPEED: 81 MPH 3. WIND PRESSURES ARE BASED ON ASCE 7-16 STRENGTH DESIGN (ULTIMATE). 4. POSITIVE / NEGATIVE VALUES INDICATE FORCES ARE ACTING TOWARDS / AWAY
- RESPECTIVELY. COMPONENTS SUBJECTED TO PARAPETWIND FORCE ON BOTH SID FOR CUMULATIVE FORCES.
- SERVICE LEVEL LOADS MAY BE CALCULATED BY MULTIPLYING THE NUMBERS ABOVE BY 0.6.

## **COMPONENTS AND CLADDING WALL WIND PRESSURES**

## **COMPONENTS AND CLADDING ROOF WIND PRESSURES**

| VARDS / AWAY FROM ELEMENT,               |  |
|--|--|
| DES (e.g. WALL PANELS) SHALL BE DESIGNED |  |

| _ |                          |             |             |  |
|---|--------------------------|-------------|-------------|--|
|   | TRIBUTARY AREA (SQ. FT.) |             |             |  |
|   | 10                       | 50          | 100         |  |
| 1 | -47/+16 PSF              | -29/+16 PSF | -16/+16 PSF |  |
| 2 | -69/+16 PSF              | -47/+16 PSF | -38/+16 PSF |  |
| 3 | -82/+16 PSF              | -55/+16 PSF | -43/+16 PSF |  |
|   |                          |             |             |  |

| GROSS WIND UPLIFT |  |
|-------------------|--|
| (STRENGTH DESIGN) |  |

![](_page_16_Figure_17.jpeg)

![](_page_16_Figure_18.jpeg)

![](_page_16_Figure_19.jpeg)

| AER<br>New<br>Post                               | OJET<br>Guard<br>- 2  |
|--|---|
| Design Phase –<br>CON<br>DO                      | STRUCTION<br>CUMENTS  |
| Revisions<br>No. Date                            | Description   |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
| Stamp  |   |
| Notes  | CROMWELL<br>ARCHITECTS/<br>ENGINEERS<br>#5<br>WSAS-ENGINETITI<br>WSAS-ENGINETITI<br>NSAS-ENGINETITI<br>MULTIN<br>STATE 0<br>ARRIANSAS<br>PROFESSIONAL<br>ENGINEER<br>* * *<br>No. 9668<br>SEL CAL |
| 1. CROMWELL A<br>ALL RIGHTS RE                   | RCHITECTS ENGINEERS, INC.<br>SERVED   |
| 2. THIS SHEET DE<br>CRITICAL INFO<br>BLACK AND W | SIGNED FOR COLOR PRINTING.<br>DRMATION MAY BE LOST WITH<br>/HITE PRINTING.  |
| Project Number                                   | 2024-052  |
| Issue Date                                       | 07-17-2024  |
| COMP<br>CLAE<br>PRES                             | ONENTS AND<br>DDING WIND<br>SURE PLANS  |
|  | -003  |

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![](_page_17_Figure_0.jpeg)

# FOUNDATION AND SLAB LEGEND

![](_page_17_Figure_2.jpeg)

![](_page_17_Figure_3.jpeg)

![](_page_17_Figure_4.jpeg)

NOTE: GALVANIZE EXTERIOR COLUMNS

| COL FOOTING SCHEDULE |         |         |         |                           |
|----------------------|---------|---------|---------|---------------------------|
| MARK #               | W       | L       | Т       | REINFORCING               |
| F36                  | 3' - 0" | 3' - 0" | 1' - 4" | #5 AT 9" O.C. BOT         |
| F60                  | 5' - 0" | 5' - 0" | 1' - 4" | #5 AT 9" O.C. TOP AND BOT |
| F72                  | 6' - 0" | 6' - 0" | 1' - 4" | #5 AT 9" O.C. TOP AND BOT |
|                      |         |         |         |                           |

| CONT FOOTING SCHEDULE |         |         |             |  |
|-----------------------|---------|---------|-------------|--|
| MARK #                | W       | Т       | REINFORCING |  |
| W24                   | 2' - 0" | 1' - 4" | SEE 1/S-302 |  |
| W30                   | 2' - 6" | 1' - 4" | SEE 2/S-302 |  |

- · INDICATES STRUCTURAL STEEL COLUMN SIZE
- INDICATES COLUMN DESIGN LOAD IN KIPS (UNFACTORED)
- INDICATES NET MAX COLUMN UPLIFT (UNFACTORED)
- ► INDICATES FOOTING SIZE, SEE SCHEDULE.
- INDICATES TOP OF FOOTING (T.O.F.) IN RELATION TO FINISHED GRADE.
- INDICATES CONTROL/CONSTRUCTION JOINT IN SLAB
- INDICATES SPREAD FOOTING, SEE SCHEDULE.
- INDICATES STRUCTURAL STEEL COLUMN, SEE PLAN FOR SIZE.
- INDICATES CONTINUOUS FOOTING SIZE, SEE SCHEDULE
- INDICATES FLOOR DRAIN, COORDINATE WITH ARCH AND PLUMBING
- INDICATES LOAD-BEARING CMU SHEAR WALL, SEE S-601.

![](_page_17_Picture_21.jpeg)

| AER<br>New<br>Post  | OJET<br>Guard<br>- 2  |
|---|---|
| Design Phase —<br>CON<br>DO<br>Revisions —<br>No. Date  | STRUCTION<br>CUMENTS<br>Description   |
|   |   |
| C. M. | CROMWELL<br>ARCHITECTS/<br>ENGINEERS<br>#5<br>TOTATE 0<br>ARHANSAS<br>DECLAERED<br>HANSAS<br>DECLAERED<br>HANSAS                                |
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| Sheet Title   | DATION AND<br>AB PLAN   |

![](_page_18_Figure_0.jpeg)

![](_page_18_Figure_1.jpeg)

![](_page_18_Figure_2.jpeg)

![](_page_18_Figure_3.jpeg)

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Project AEROJET New Guard Post - 2 Design Phase CONSTRUCTION DOCUMENTS Revisions Date Description No. Stamp CROMWELL ARCHITECTS/ ENGINEERS #5 ARHANGAS PROFESSIONAL \* \* \* No. 9668 CHAEI 07-17-2024 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 2024-052 Issue Date 07-17-2024 Sheet Title **ROOF FRAMING PLAN** Sheet Number **S-102** 

![](_page_19_Figure_0.jpeg)

**CROMWELL** 1300 East 6th Street Little Rock, AR 72202 501.372.2900 cromwell.com Project AEROJET New Guard Post - 2 Design Phase CONSTRUCTION DOCUMENTS Revisions No. Date Description Stamp CROMWELL ARCHITECTS/ ENGINEERS #5 ARHANGAS ROFÉSSIONAL ENGINEER E CHAEI \* \* \* No. 9668 07-17-2024 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 -2024-052 Issue Date 07-17-2024 Sheet Title TYP FOUNDATION AND SLAB DETAILS Sheet Number

![](_page_20_Figure_0.jpeg)

4 TYPICAL COMBINED FOOTING

![](_page_20_Figure_2.jpeg)

# 5 SECTION AT INTERIOR CMU WALL

| Project<br>AER<br>New<br>Doct     | OJET<br>Guard  |
|-----------------------------------|--|
| Post                              | - 2  |
|                                   |  |
|                                   |  |
|                                   |  |
|                                   |  |
| Design Phase —                    | STRUCTION  |
| DO Revisions                      | CUMENTS  |
| No. Date                          |  |
|                                   |  |
|                                   |  |
|                                   |  |
|                                   |  |
| itamp                             |  |
| CERTIFIC                          | CROMWELL<br>ARCHITECTS/<br>ENGINEERS<br>#5<br>***********************************      |
| M.c.                              | ARIANSAS<br>ARIANSAS<br>PROFESSIONAL<br>ENGINEER<br>No. 9668<br>AELCALLA<br>OT-17-2024 |
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| Project Number                    | 2024-052   |
| ssue Date                         | 07-17-2024   |
| FOUND                             | ATION DETAILS  |
| iheet Number –                    |  |
| S                                 | -302   |

| TYPICAL BASE PLATE SCHEDULE       |                    |                                |       |       |       |                 |                   |
|-----------------------------------|--------------------|--------------------------------|-------|-------|-------|-----------------|-------------------|
| COL SIZE                          | PLATE<br>THICKNESS | Α                              | В     | С     | D     | ANCHOR<br>ROD Ø | MIN.<br>Embedment |
| HSS5X5<br>(GRID LINE 3)           | 3/4"               | 1'-1"                          | 1'-1" | 9"    | 9"    | 3/4"            | 1'-0"             |
| HSS12X12                          | 1 1/2"             | 1'-8"                          | 1'-8" | 1'-4" | 1'-4" | 3/4"            | 1'-0"             |
| HSS5X5<br>(GRID LINES<br>2 & 2.1) | 3/4"               | OFFSET, SEE 4/S-303 3/4" 1'-0" |       |       | 1'-0" |                 |                   |

ANCHOR ROD WASHERS AND HOLES SIZE

2"

NOTES: 1. THIS CHART IS TAKEN FROM AISC TABLE 14-1. LATEST VERSION OF AISC TABLE

3. ADEQUATE CLEARANCE MUST BE PROVIDED FOR THE WASHER SIZE SELECTED

MAX HOLE Ø MIN. WASHER SIZE

1 5/16"

2. CIRCULAR OR SQUARE WASHERS ARE ACCEPTABLE.

ANCHOR ROD Ø

3/4

14-1 TAKES PRECEDENCE.

MIN. WASHER

THICKNESS

1/4"

AISC TABLE J2.4

HEAVY HEX NUT -

TOP OF FOUNDATION -

AND NOTE I.5/S-001

TACK WELD

![](_page_21_Figure_7.jpeg)

![](_page_21_Figure_8.jpeg)

![](_page_21_Figure_9.jpeg)

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![](_page_21_Figure_10.jpeg)

![](_page_21_Figure_11.jpeg)

![](_page_21_Picture_12.jpeg)

![](_page_22_Figure_0.jpeg)

![](_page_22_Figure_1.jpeg)

ROOFING, SEE ARCH -

BENT PLATE, SEE 3/S-502 -

METAL DECK, SEE 1/S-501

SHEAR CONN, SEE 3/S-501

COLUMN, SEE PLAN -

EXTERIOR CLADDING, SEE ARCH ----

NOTES:

1

CAPACITY IS BASED ON LRFD DESIGN WITH STANDARD OR SHORT HORIZONTAL SLOTTED HOLES AND A MAXIMUM HSS WIDTH TO THICKNESS RATIO OF 33.7. OVERSIZE OR VERTICAL SLOTTED HOLES ARE NOT ALLOWED. FOR STANDARD HOLES MINIMUM PLATE THICKNESS SHALL BE USED. NUMBER OF BOLTS SHOWN IS THE MINIMUM REQUIRED FOR CONNECTIONS

PREHEAT WELDS AS REQUIRED BY AISC. USE STANDARD HOLES ALONG BRACED FRAME OR MOMENT FRAME GRID LINES.

![](_page_22_Picture_12.jpeg)

| DIAPHRAGM             | LBS./SQ. FT. | I                                | Sp                               | Sn                               |
|-----------------------|--------------|----------------------------------|----------------------------------|----------------------------------|
| SHEAR VALUE           | GALVANIZED   | <u>(IN</u> <sup>4</sup> )<br>FT. | <u>(IN</u> <sup>3</sup> )<br>FT. | <u>(IN</u> <sup>3</sup> )<br>FT. |
| 300 PLF AT 8'-0" SPAN | 2.14         | 0.211                            | 0.234                            | 0.247                            |
| 400 PLF AT 6'-8" SPAN | 1.89         | 0.907                            | 0.512                            | 0.538                            |

# SINGLE-PLATE CONNECTION DETAIL

![](_page_22_Figure_18.jpeg)

|           | 201.00                       |                         |                          |
|-----------|------------------------------|-------------------------|--------------------------|
| BEAM SIZE | ROWS OF 3/4" Ø<br>H.S. BOLTS | MIN. PLATE<br>THICKNESS | MIN. FILLET<br>WELD SIZE |
| W18       | 5                            | 5/16"                   | 1/4"                     |
| W16       | 4                            | 1/4"                    | 3/16"                    |
| W14 & W12 | 3                            | 1/4"                    | 3/16"                    |
| W10 & W8  | 2                            | 1/4"                    | 3/16"                    |

## NOTES

- CAPACITY IS BASED ON LRFD DESIGN WITH STANDARD OR SHORT HORIZONTAL SLOTTED HOLES. OVERSIZE OR VERTICAL SLOTTED HOLES ARE NOT ALLOWED. FOR STANDARD HOLES MINIMUM PLATE THICKNESS SHALL BE USED.
- NUMBER OF BOLTS SHOWN IS THE MINIMUM REQUIRED FOR CONNECTIONS
- PREHEAT WELDS AS REQUIRED BY AISC.
- BEAMS WITH LARGE COPES MAY REQUIRE WEB STIFFENER.

![](_page_22_Picture_25.jpeg)

![](_page_22_Figure_26.jpeg)

| •                                    |  |
|--------------------------------------|--|
|                                      |  |
| E SCHEDULE<br>ND NUMBER<br>SL HORIZ. |  |

SEE SCHEDULE

AISC 16TH EDITION

| CAPACITY |
|----------|
| 93k      |
| 59k      |
| 43k      |
| 28k      |

1300 East 6th Street Little Rock, AR 72202 501.372.2900 cromwell.com Project AEROJET New Guard Post - 2 Design Phase CONSTRUCTION DOCUMENTS Revisions No. Date Description Stamp CROMWELL ARCHITECTS/ ENGINEERS #5

ARHANGAS PROFÉSSIONAL ENGINEER \* \* \* No. 9668 07-17-2024

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2024-052 07-17-2024

**TYPICAL ROOF** FRAMING DETAILS

Sheet Number

Issue Date

Sheet Title

**S-50**<sup>°</sup>

![](_page_23_Figure_0.jpeg)

![](_page_23_Figure_1.jpeg)

![](_page_23_Figure_2.jpeg)

![](_page_23_Picture_3.jpeg)

![](_page_23_Picture_4.jpeg)

# Project AEROJET New Guard Post - 2 Design Phase CONSTRUCTION DOCUMENTS Revisions Date Description No. Stamp -CROMWELL ARCHITECTS/ ENGINEERS STATEOR ARHANGAS DECLOTERED PROFESSIONAL ENGINEER No. 9668 CHAEI 07-17-2024 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 2024-052 Issue Date 07-17-2024 Sheet Title **TYPICAL ROOF** FRAMING DETAILS Sheet Number **S-502**

**CROMWELL** 

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- ROOFING, SEE ARCH — BENT PLATE, SEE 1S-502 — METAL DECK, SEE 1/S-501 - SHEAR CONN, SEE 2/S-501, TYP - BEAM, SEE PLAN

![](_page_24_Figure_3.jpeg)

5 TYPICAL KICKER DETAIL

| 1300<br>501.3  | East 6th St<br>72.2900 | reet Little Rock, AR 72202<br>cromwell.com |  |  |  |
|--|------------------------|--|--|--|--|
| Proje  | ect                    |  |  |  |  |
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| ł  | AER                    | OJEI                                       |  |  |  |
|  | New                    | Guard                                      |  |  |  |
| F  | Post                   | - 2  |  |  |  |
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| CROMWELL<br>ARCHITECTS/  |                        |  |  |  |  |
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|  | see a a                | STATE OA<br>ARMANGAS                       |  |  |  |
|  | Me                     | PROFESSIONAL<br>ENGINEER                   |  |  |  |
|  | A. C.                  | No. 9668                                   |  |  |  |
| Nata   | <b>c</b>               | 07-17-2024                                 |  |  |  |
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| Sheet Title  |                        |  |  |  |  |
| TYPICAL CANOPY   |                        |  |  |  |  |
| FRAMING DETAILS  |                        |  |  |  |  |
| Sheet Number   |                        |  |  |  |  |
| C CVJ  |                        |  |  |  |  |
|  | 3                      | -303                                       |  |  |  |

C R O M W E L L

![](_page_25_Figure_0.jpeg)

![](_page_25_Figure_1.jpeg)

| I W | WALL REINFORCEMENT SCHEDULE                          |   |                |  |  |  |  |  |
|-----|--|---|----------------|--|--|--|--|--|
|     | REIN   | IFORCEMENT  |                |  |  |  |  |  |
|     | VERTICAL   | HORIZONTAL  | REMARKS        |  |  |  |  |  |
|     | #5 AT 16" O.C.<br>AND AT EACH<br>SIDE OF<br>OPENINGS | CONT. BOND BEAM w/1-#5<br>AT FLOOR SLAB AND AT<br>TOP OF WALL. LADDER<br>JOINT REINFORCEMENT<br>AT 16" O.C. | grout<br>Solid |  |  |  |  |  |

![](_page_25_Figure_3.jpeg)

# SINGLE WYTHE

OPENINGS < 6'-0"

| NOMINAL WALL<br>THICKNESS (t) | WIDTH OF (                 |
|-------------------------------|----------------------------|
|                               | 0'-10" TO 6'               |
| 8"                            | 8" CMU BOND<br>w/2-#5 BOTT |

NOTES:

LINTEL SCHEDULE APPLIES UNLESS NOTED OR DETAILED OTHERWISE. EXTEND LINTEL REINF. AT LEAST 24 INCHES PAST EDGE OF OPENINGS. WHERE ONLY 16 INCHES IS AVAILABLE USE STD HOOK AT ENDS.

1. USE BOND BEAM UNITS WITH OPEN BOTTOM AT CELLS WITH VERTICAL REINFORCMENT. 2. ALL DOWELS TO MATCH SIZE AND SPACING OF VERTICAL REINFORCEMENT, U.N.O. 3. ALSO SEE GENERAL NOTES ON SHEET S-001 FOR ADDITIONAL INFORMATION.

## **REINFORCEMENT SCHEDULE**

![](_page_25_Figure_11.jpeg)

![](_page_25_Figure_13.jpeg)

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![](_page_26_Figure_0.jpeg)

1300 East 6th StreetLittle Rock, AR 72202501.372.2900cromwell.com Project AEROJET New Guard Post - 2 Design Phase CONSTRUCTION DOCUMENTS Revisions Date Description No. Stamp EGISTER ARCHITECT PKANSAJ 07-17-2024 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 -2024-052 Issue Date 07-17-2024 Sheet Title FLOOR PLAN Sheet Number **A-101** 

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![](_page_27_Figure_0.jpeg)

| <b>CROMWELL</b><br>1300 East 6th Street<br>501.372.2900 Little Rock, AR 72202<br>cromwell.com   |
|---|
| AEROJET<br>New Guard<br>Post - 2  |
| Design Phase<br>CONSTRUCTION<br>DOCUMENTS<br>Revisions  |
| No.     Date     Description  |
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| Sheet Number  |

2 4

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

![](_page_28_Figure_0.jpeg)

![](_page_28_Figure_1.jpeg)

![](_page_28_Figure_3.jpeg)

![](_page_28_Picture_4.jpeg)

![](_page_29_Figure_0.jpeg)

![](_page_29_Figure_2.jpeg)

![](_page_30_Figure_0.jpeg)

# TOILET ACCESSORY SCHEDULE

|                          | PRODUCT                      |
|--------------------------|------------------------------|
| ROR - 24" X 18"          | BOBRICK B-165 1836           |
| D. PAPER TOWEL DISPENSER | BOBRICK B-72860              |
|                          | BOBRICK B-211                |
| DAP DISPENSER            | BOBRICK B-680 CLASSIC SERIES |
| E DISPENSER              | BOBRICK B-288                |
|                          |                              |

![](_page_30_Figure_3.jpeg)

| 1300 East 6th<br>501.372.2900 | Street Little Rock, AR 72202<br>cromwell.com                |
|-------------------------------|---|
| Project                       |   |
|                               | ROJET   |
| Nev                           | v Guard   |
| Pos                           | st - 2  |
|                               |   |
|                               |   |
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| Stamp                         |   |
|                               |   |
|                               | C-98  |
|                               | ARCHITECTS GE   |
|                               |   |
|                               | STERED APCH   |
|                               | No 3339   |
|                               | ARKANSAS  |
| Notes                         | 07-17-2024  |
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| LARG                          | E SCALE PLANS<br>& DETAILS                                  |
| Sheet Number                  |   |
|                               |   |
| <b> </b>                      | <b>\-40  </b>   |

**CROMWELL** 

![](_page_31_Figure_0.jpeg)

![](_page_31_Picture_1.jpeg)

![](_page_31_Figure_2.jpeg)

| []                 | C                 | R    | 0   | M      | W           | Ε           | L             | L         |
|--------------------|-------------------|------|-----|--------|-------------|-------------|---------------|-----------|
| 1300 Ea<br>501.372 | ast 6th<br>2.2900 | Stre | eet | Little | Rock<br>crc | , AR<br>mwe | 722<br>ell.co | 202<br>om |

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| New  | New Guard   |  |  |  |  |  |  |  |
| Pos  | t - 2   |  |  |  |  |  |  |  |
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| Design Phase -                               |   |  |  |  |  |  |  |  |
|  | CUMENTS   |  |  |  |  |  |  |  |
| No. Date                                     | Description   |  |  |  |  |  |  |  |
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| WWWWW  | REGISTERED<br>ARCHITECTS  |  |  |  |  |  |  |  |
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| $\mathbf{\mathbf{x}}$                        | No. 3339 $\bigstar$   |  |  |  |  |  |  |  |
| Notes  | 07-17-2024  |  |  |  |  |  |  |  |
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|  |   |  |  |  |  |  |  |  |

![](_page_32_Figure_0.jpeg)

EAVE DETAIL 6" = 1'-0"

![](_page_32_Picture_2.jpeg)

![](_page_32_Figure_3.jpeg)

![](_page_32_Figure_4.jpeg)

FIXED RIDGE DETAIL

4

3" = 1'-0"

![](_page_32_Figure_6.jpeg)

![](_page_32_Picture_24.jpeg)

![](_page_33_Picture_0.jpeg)

![](_page_33_Figure_1.jpeg)

![](_page_33_Figure_2.jpeg)

WINDOW JAMB DETAIL 3" = 1'-0"

3

![](_page_33_Figure_4.jpeg)

![](_page_33_Picture_5.jpeg)

Project

![](_page_33_Picture_7.jpeg)

![](_page_34_Figure_0.jpeg)

| ARE<br>10. | DOOR NO. | COMMENTS  |
|------------|----------|---|
|            |          |   |
|            | 100.1    |   |
| 1          | 101.1    | HARDENED ROOM DOOR. THIS DOOR IS TO HAVI<br>ICC500-2020 FEMA COMPLIANCE LABEL |
| 5          | 102.1    |   |
| 51         | 102.2    |   |
|            | 103.1    |   |
|            | *        |   |

| MATERIA   | MATERIALS               |  |  |  |  |  |
|-----------|-------------------------|--|--|--|--|--|
| AL        | ALUMINUM                |  |  |  |  |  |
| СТ        | CLEAR TEMPERED GLASS    |  |  |  |  |  |
| GHM       | GALVANIZED HOLLOW METAL |  |  |  |  |  |
| НМ        | HOLLOW METAL            |  |  |  |  |  |
| IHM       | INSULATED HOLLOW METAL  |  |  |  |  |  |
| SCW       | SOLID CORE WOOD         |  |  |  |  |  |
| ST        | STEEL                   |  |  |  |  |  |
| W         | WOOD                    |  |  |  |  |  |
| MATERIALS |                         |  |  |  |  |  |
| S         | STAIN                   |  |  |  |  |  |
| Р         | PAINT                   |  |  |  |  |  |

![](_page_34_Picture_4.jpeg)

![](_page_34_Figure_7.jpeg)

# **EXISTING GUARD POST - DEMOLITION REQUIREMENTS:**

3" = 1'-0"

1. THE EXISTING GUARD POST SHALL BE DEMOLISHED AS A PART OF THE CONTRACTOR'S SCOPE OF WORK. EXISTING GUARD POST SHALL REMAIN FULLY FUNCTIONAL UNTIL THE NEW GUARD POST 2 IS SUBSTANTIALLY COMPLETE. EXISTING GUARD POST IS A SINGLE-STORY APPROXIMATELY 15' X 15' SQUARE. EXISTING GUARD POST SHALL BE COMPLETELY DEMOLISHED, INCLUDING SITE PAVING, FOUNDATION, AND UTILITY CONNECTIONS. ALL SECURITY DEVICES SHALL BE SALVAGED AND TURNED OVER TO THE OWNER. REFER TO ALL DISCIPLINES' DRAWINGS FOR ADDITIONAL DEMOLITION NOTES. REFER TO GENERAL CONSTRUCTION NOTES FOR FIELD VERIFICATIONS AND OTHER REQUIREMENTS.

2. THE CONTRACTOR IS RESPONSIBLE FOR THE ABATEMENT OF ALL KNOWN HAZARDOUS MATERIALS AND ANY HAZARDOUS MATERIALS DISCOVERED DURING DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING HIS EMPLOYEES OF CONDITIONS NOTED THEREIN AND FOLLOWING ALL SAFETY GUIDELINES AND RECOMMENDATIONS ASSOCIATED WITH THIS WORK. NO KNOWN HAZARDOUS MATERIALS EXIST.

3. IF THE CONTRACTOR ENCOUNTERS ANY MATERIALS THAT APPEAR TO CONTAIN ASBESTOS OR LEAD-BASED PAINT, CONTACT THE AEROJET ONSITE PROJECT MANAGER IMMEDIATELY AND DO NOT REMOVE MATERIAL UNTIL SPECIFIC DIRECTIONS HAVE BEEN ISSUED. THE CONTRACTOR SHALL COORDINATE ABATEMENT ACTIVITIES WITH THE AEROJET ROCKETDYNE ASBESTOS SPECIALIST.

![](_page_34_Figure_12.jpeg)

# **GLAZING SCHEDULE**

**GL-1** 1" INSULATED TEMPERED GLASS GL-2 1/4" CLEAR LAMINATED SAFETY GLAZING

**NOTE:** APPLY BALLISTIC FILM ON EXTERIOR WINDOWS

| 300<br>501.3<br>Proje        | East 6th St<br>72.2900<br>AER<br>New<br>Post                               | O,<br>G  | JET<br>Uaľ<br>2                              | ck, AR 722<br>cromwell.c                 | 202<br>om |
|------------------------------|--|--|--|--|-----------|
| Desig                        | n Phase –<br>CON<br>DO   | STR<br>CU <i>I</i>                                     | UCTIO  | ON<br>S                                  |           |
| Revis<br>No.                 | ions ———<br>Date   | Desc   | cription                                     |  |           |
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|                              |  |  |  |  |           |
|                              | REGLON HILLINNELLIN  | REGIST<br>REGIST<br>RARCHI<br>LED<br>K<br>No. 3<br>REA | APCHINE<br>339<br>NSAS                       | 7-202                                    | 4         |
| Note                         | s  |  |  |  |           |
| 1. C<br>A<br>2. TI<br>C<br>B | CROMWELL A<br>ALL RIGHTS RE<br>HIS SHEET DE<br>CRITICAL INFO<br>LACK AND W | RCHITE<br>SERVED<br>SIGNED<br>DRMATI<br>/HITE PF       | CTS ENGIN<br>FOR COL<br>ON MAY E<br>RINTING. | NEERS, INC.<br>OR PRINTIN<br>BE LOST WIT | G.<br>H   |
| Issue                        | Date   |  |  | 2024-052                                 | 2         |
| Shee                         | t Title ——   |  | 07   | -17-2024                                 | 4         |
| Shee                         | SCH<br>DEMC  | IEDU<br>DLITI  | JLES<br>ON PL                                | &<br>.AN                                 |           |
|                              | A  | -6   | 0  |  |           |

|        | ROOM FINISH SCHEDULE |       |        |           |            |           |            |          |            |           |            |          |       |        |         |
|--------|----------------------|-------|--------|-----------|------------|-----------|------------|----------|------------|-----------|------------|----------|-------|--------|---------|
|        | ROOM                 |       |        | NORTH     | WALL       | SOUTH     | WALL       | EAST     | WALL       | WEST V    | VALL       | CEIL     | ING   | ROOM   |         |
| NUMBER | NAME                 | FLOOR | BASE   | MATERIAL  | COLOR      | MATERIAL  | COLOR      | MATERIAL | COLOR      | MATERIAL  | COLOR      | MATERIAL | COLOR | NUMBER | REMARKS |
|        |                      |       |        |           |            |           |            |          |            |           |            |          |       |        |         |
| 100    | GUARD OFFICE         | RES-1 | RESB-1 | MRGWB/ALG | EPT-1/     | MRGWB/ALG | EPT-1/     | MRGWB    | EPT-1      | MRGWB/ALG | EPT-1/     | ACT      | ACT-1 | 100    |         |
| 101    | RESTROOM /           | RES-1 | RESB-1 | TBB       | PT-1,EPT-1 | CMU       | PT-1,EPT-1 | CMU      | PT-1,EPT-1 | CMU       | PT-1,EPT-1 | ACT      | ACT-1 | 101    |         |
|        | HARDENED ROOM        |       |        |           |            |           |            |          |            |           |            |          |       |        |         |
| 102    | VISITOR BADGE-UP     | WOT-1 | RB-1   | MRGWB     | EPT-1      | MRGWB     | EPT-1      | MRGWB    | EPT-1      | MRGWB     | EPT-1      | ACT      | ACT-1 | 102    |         |
| 103    | UTILITY ROOM         | RES-1 | RESB-1 | MRGWB     | EPT-1      | MRGWB     | EPT-1      | MRGWB    | EPT-1      | CMU       | EPT-1      | ACT      | ACT-1 | 103    |         |

## GENERAL NOTES:

1. SUBMIT ALL SAMPLES TO OWNER FOR FINAL APPROVALS PRIOR TO ORDERING FINISH MATERIALS. 2. WALL TILE WAINSCOT TO BE APPROXIMATLEY 4'-0" H ABOVE FINISHED FLOOR (AFF) AND TO BEGIN AT TOP OF SCHEDULED BASE MATERIAL. TOP OF WAINSCOT TO BE FINISHED WITH SCHLUTER SYSTEMS, JOLLY EDGE TRIM 3/8", BLACK ALUMINUM.

3. GROUT COLORS TO BE AS FOLLOWS:

HIGH PERFORMANCE CEMENTITIOUS GROUT TO BE USED WITH ALL WALL TILING. COLOR TO BE SELECTED FROM MANUFACTURER'S STANDARD OFFERING. 1/8" GROUT JOINTS.

4. HOLLOW METAL DOORS AND FRAMES TO BE P-1. WOOD DOOR TO BE FACTORY FINISHED. STAIN TO BE SELECTED FROM MANUFACTURER'S STANDARD OFFERING.

5. ALL MILLWORK BASE CABINETS TO RECEIVE PL-2. COUNTERTOPS AND SPLASHES TO RECEIVE PL-1 WITH 3MM PVC EDGEBANDING.

6. PASS THROUGH WINDOW LEDGE TO BE A PRE-FABRICATED PIECE WITH INTEGRAL STAINLESS STEEL COUNTERTOP.

![](_page_35_Figure_8.jpeg)

| MATERIAL LEGEND |                                      |  |  |  |  |
|-----------------|--------------------------------------|--|--|--|--|
|                 |                                      |  |  |  |  |
|                 | _"NO" OR "NONE"                      |  |  |  |  |
| ACT             | ACOUSTICAL CEILING TILE              |  |  |  |  |
| ALG             | ALUMINUM/ GLASS                      |  |  |  |  |
| CMU             | CONCRETE MASONRY UNIT                |  |  |  |  |
| EPT             | EPOXY PAINT                          |  |  |  |  |
| GWB             | GYPSUM WALL BOARD                    |  |  |  |  |
| MRGWB           | MOISTURE RESISTANT GYPSUM WALL BOARD |  |  |  |  |
| Р               | PAINT                                |  |  |  |  |
| PL              | PLASTIC LAMINATE                     |  |  |  |  |
| PT              | PORCELAIN TILE                       |  |  |  |  |
| RES             | RESINOUS FLOORING                    |  |  |  |  |
| RESB            | RESINOUS INTEGRAL COVE BASE          |  |  |  |  |
| TBB             | TILE BACKER BOARD                    |  |  |  |  |
| WOT             | WALK OFF CARPET TILE                 |  |  |  |  |

# **FINISHES LEGEND**

## FLOORS

| RES-1    | DOUBLE BROADCAST: SHERWIN WILLIAMS, RESUFLOR MPE PRIMER; RESUF<br>VINYL FLAKE BLEND 2 COATS; GROUT COAT: RESUFLOR MPE-CLEAR (MAY F<br>TOPCOAT: SATIN FINISH RESUTILE HTS 100 CLEAR SATIN URETHANE TOPCO |  |  |  |  |  |
|----------|---|--|--|--|--|--|
| WOT-1    | MILLIKEN, OBEX TILE, CUTX FIZZ, FZX118-119 DARK GREY, 50CM X 50CM   |  |  |  |  |  |
| BASE     |   |  |  |  |  |  |
| RB-1     | FLEXCO VCB-058 BLUE SHADOW COVE BASE 4"H  |  |  |  |  |  |
| RESB-1   | MONOLITHIC RESINOUS INTEGRAL BASE 8"H TO MATCH RES-1  |  |  |  |  |  |
| WALL     | S   |  |  |  |  |  |
| PT-1     | MSI, CEMENTINO GRAY, 12" X 24" MATTE PORCELAIN TILE. (HOME DEPOT)   |  |  |  |  |  |
| EPT-1    | SHERWIN WILLIAMS, COLOR: AEROJET (CONFERENCE ROOM) GRAY, EPOXY  |  |  |  |  |  |
| P-1      | SHERWIN WILLIAMS, COLOR: AEROJET (CONFERENCE ROOM) GRAY, SEMI-G   |  |  |  |  |  |
|          |   |  |  |  |  |  |
| CEILINGS |   |  |  |  |  |  |

## MILLWORK

| PL-1 | WILSONART, PATTERN AND COLOR TBD (COUNTERTOPS AND SPLASHES) |
|------|---|
| PL-2 | WILSONART, PATTERN AND COLOR TBD (BASE CABINETS)            |

5

1/2" = 1'-0"

![](_page_35_Figure_16.jpeg)

![](_page_35_Figure_17.jpeg)

![](_page_35_Figure_18.jpeg)

![](_page_35_Figure_19.jpeg)

![](_page_35_Figure_20.jpeg)

4 1/2" = 1'-0"

AEROJET New Guard Post - 2 Design Phase CONSTRUCTION DOCUMENTS Revisions Date Description No. Stamp EGISTER ARCHITECTS 07-17-2024 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 2024-052 Issue Date 07-17-2024 Sheet Title **ROOM FINISH NOTES** AND LEGENDS Sheet Number A-602

**CROMWELL** 

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Project

![](_page_36_Figure_0.jpeg)

SINK BASE CABINET w/ DOORS & LAMINATE TOP 1 1/2" = 1'-0"

3

4 1 1/2" = 1'-0"

![](_page_36_Figure_4.jpeg)

SINK BASE CABINET w/DOORS, FALSE FRONT & LAMINATE TOP

![](_page_36_Figure_18.jpeg)

![](_page_36_Picture_19.jpeg)

![](_page_37_Figure_1.jpeg)

**INTERIOR TRANSACTION WINDOW - SECTION** 

1

1" = 1'-0"

![](_page_37_Picture_5.jpeg)

| []                | C                 | R    | 0   | M      | W            | E         | L             | L         |
|-------------------|-------------------|------|-----|--------|--------------|-----------|---------------|-----------|
| 1300 E<br>501.372 | ast 6th<br>2.2900 | Stre | eet | Little | Rock,<br>cro | AR<br>mwe | 722<br>ell.co | 202<br>om |

Project -

| <b></b>   |   |                    |  | 1   |   |
|-----------|---|--------------------|--|---|---|
|           | A   | ABBREVIATIONS      |  | PIPINC  |   |
| AC        |   | HVAC<br>HP         | HEATING, VENTILATION, AIR COND.        | (E)   | EXISTING PIPE TAG   |
| ACC       | AREA DRAIN  | HRWH               | HEAT RECLAIM WATER HEATER              |   |   |
| AFC       | ABOVE FINISH CEILING                              | HS                 | HOSE STATION                           |   |   |
|           | ABOVE FINISH FLOOR                                | HWG                | HOT WATER<br>HOT WATER GENERATOR       | HW =====  | HOT WATER 120°F   |
| AHJ       | AUTHORITY HAVING JURISE                           | DICTION HWR        | HOT WATER RETURN                       | HWR —   | HOT WATER 120°F RECIRC.   |
| APF       | ROX APPROXIMATE                                   | HWST               | HOT WATER STORAGE TANK                 | G   | NATURAL GAS   |
|           |   | AL ID<br>KW        | INSIDE DIAMETER/DIMENSION<br>KILOWATTS | CD  | CONDENSATE DRAIN  |
| BFF       | BELOW FINISH FLOOR                                | LV                 | LAVATORY                               | SPD   | PUMP DISCHARGE  |
| BLD       | G BUILDING  | LF                 | LINEAR FEET                            | SS SS   | SANITARY SEWER  |
| BTU       | J BRITISH THERMAL UNITS                           | LPG<br>∩UR IWT     | LIQUID PETROLEUM GAS                   |   |   |
| CAF       | P CAPACITY  | MAX                | MAXIMUM                                | SD SD   |   |
| CB        | CATCH BASIN                                       | MBH                | THOUSAND BTU/PER HOUR                  |   | DIPE SYMBOLS  |
|           |   |                    | MECHANICAL                             | <u>I RESSORE</u>  |   |
| CFN       | I CUBIC FEET/MINUTE                               | MFR                | MANUFACTURER                           |   |   |
| CI        | CAST IRON   | MH                 | MANHOLE                                |   |   |
|           | G CEILING   | MIN                |  |   | PIPE CAP  |
|           | L COLUMN  | MISC               | MOUNTED                                |   |   |
| CON       | NC CONCRETE                                       | NA                 | NOT APPLICABLE                         | GRAVITY   |   |
|           |   | NFPA               | NATIONAL FIRE PROTECTION ASSO.         |   |   |
|           | NT CONTINUE                                       | OA                 | OUTSIDE AIR                            |   |   |
| COT       | IG CLEAN OUT TO GRADE                             | OD                 | OUTSIDE DIAMETER/DIMENSION             |   | PIPE WYE 8TH TEE  |
|           | CIRCULATING PUMP                                  | PD<br>PLBG         |  |   | PIPE TEE  |
| CW        | COLD WATER  | PRESS              | PRESSURE                               |   |   |
| DCC       | DTG DOUBLE CLEANOUT TO GR/                        | ADE PRV            | PRESSURE REDUCING VALVE                |   |   |
|           |   | PSI                | POUNDS PER SQUARE INCH                 |   |   |
| DEC       | AO DEMOLITION                                     | RD                 | ROOF DRAIN                             | PLUMBI  | NG TAGS   |
| DF        | DRINKING FOUNTAIN                                 | REF                | REFERENCE                              | <u>PIF</u>  | <u>PE TAG</u>   |
| DS        | DOWN SPOUT  | REQD               |  |   | APPROX. INVERT ELEVATION  |
| DTL       | . DETAIL  | REV                | ROOM                                   | INVERT: -3' - 5"  | SIZE, SYSTEM, FU FLOW   |
|           | DOMESTIC WATER HEATER                             | (G) GAS RPM        | <b>REVOLUTIONS PER MINUTE</b>          | 6 SS (10 FU) 🖊  |   |
| G/E       |   | RPZ                |  |   | STOTEM ADDREVIATION   |
|           |   | SECT               | SECTION                                | <u>FIXTU</u>  | <u>RE TAG</u>   |
| ELE       | C ELECTRICAL                                      | SK                 | SINK                                   | ∠4" FS-9 <b></b>  |   |
| EQ        |   | SP                 |  |   | IDENTITY  |
| EQU<br>EW | T ENTERING WATER TEMPER                           | ATURE SS           | SPECIFICATION(S)<br>SANITARY SEWER     | <u><u><u>r</u></u><u>-</u><u>r</u><u>3-9</u></u>                                    |   |
| EX,       | EXT EXISTING                                      | ST                 | STEAM                                  | HYD_2   |   |
| EXP       | P EXPANSION                                       |                    | SUCTION                                | 3 CWFU  | IDENTITY AND FIXTURE UNIT   |
| FD        | FLOOR GLEANOUT                                    | TEMP               |  | WSB-1   |   |
| FL        | FLOW LINE   | TH                 | TOTAL HEAD                             | 3 WFU   |   |
| FLE       | X FLEXIBLE CONNECTION                             | TWMV               | THREE WAY MODULATING VALVE             |   | UNIT  |
|           | I FLOOR SINK                                      | TMV<br>TYP         |  |   | CESSORIES   |
| FS        | FEET PER MINUTE                                   | UL                 | UNDERWRITERS LABORATORY                |   |   |
| FPV       |   | RANT UR            |  | 3-1   | WAY MOTORIZED CONTROL VALVE   |
| G         | GAS   | KANI V<br>VLV      | VALVE                                  |   | WAY MIXING VALVE  |
| GA        | GAUGE   | VERT               | VERTICAL                               |   |   |
| GAL       |   | VTR                |  |   | ITTERELY VALVE  |
| GAL       | GREASE INTERCEPTOR                                | WC                 | WATER CLOSET                           |   | HECK VALVE  |
| GPH       | H GALLONS PER HOUR                                | WCO                | WALL CLEANOUT                          | ₿ <b></b> EL  | BOW VALVE   |
| GPN       | M GALLONS PER MINUTE                              | WF                 |  | G/  | ATE VALVE   |
| HB        | HOSE BIBB   | WM                 | WATER MEATER<br>WATER METER            |   | OBE VALVE   |
| HT        | HEIGHT  | WTR                | WATER                                  |   | DTOR CONTROL VALVE  |
| HTG       | G HEATING   | WP                 |  | PF  | RESSURE REDUCING VALVE  |
|           |   | VVI                | WEIGHT                                 |   | UG VALVE  |
|           | GENER   | RAL PLUMBING S     | YMBOLS                                 |   |   |
|           |   |                    |  |   |   |
|           |   |                    |  |   |   |
|           | $\{ \land \}$                                     | REVISION NUMB      | ER SHOWN ON PLANS                      |   | RAINER-WYE WITH BLOWOFF   |
|           |   | POINT WHERE N      | EW CONNECTS TO                         |   |   |
|           |   | EXISTING           |  |   |   |
|           | $\bigcirc$  | DEMOLISH TO PO     | DINT INDICATED                         |   |   |
|           |   | NUMBER OF DET      | TAIL ON SHEET                          |   |   |
|           | $\begin{pmatrix} 1 \\ \hline D 001 \end{pmatrix}$ | NUMBER OF SHE      | EET WHERE DETAIL                       |   |   |
|           | P-001   | APPEARS            |  | <u><u><u>EWH-1</u></u></u>  |   |
|           | $\langle 1 \rangle$                               | KEYNOTE            |  |   |   |
|           |   |                    |  |   | (PICAL FOR ALL EXISTING TAGS)   |
|           | $\sim$  | PIPE CONTINUA      | ΓΙΟΝ                                   | (E)EWH-1  |   |
|           |   | <u>SPA</u> CE TAG: |  |   | UNIDING EQUIPNIENT FUR  |
|           | 0==:0=  |                    | ΕΝΔΜΕ                                  |   | MOLITION TAGS)  |
|           | OFFICE  | 5PAU               |  | (D)EWH-1  |   |
|           | [ <u>101</u> ]·                                   | SPAC               |  |   |   |
|           | 100 SF  | SPAC               | E AREA                                 |   | ···   |
|           |   |                    |  | PLUMBING  | SHEET SET NOTE  |
|           |   |                    |  |   |   |
|           |   | AREA NOT IN CC     | DNTRACT                                | ALL OF GENERAL NOTES ON T<br>OTHER DRAWINGS IN THIS SET.<br>ON THIS SHEET MAY OR MA | HIS SHEET ARE TO BE APPLIED TO ALL<br>SYMBOLS AND ABBREVIATIONS SHOWN<br>AY NOT BE USED IN THE CONTAINED<br>INCE DRAWINGS |
| 1         |   |                    |  |   |   |

## SEISMIC DESIGN CRITERIA

- SEISMIC DESIGN DATA: 1
  - A. SEISMIC DESIGN CATEGORY: C a. SEE SHEET S-001 FOR MORE INFO.
- THE FOLLOWING COMPONENT IMPORTANCE FACTORS ARE USED:
- WATER HEATERS (STORAGE WATER 140°F): 1.0 Α. WATER PIPING (GREATER THAN 120°F): 1.0
- SEWER PIPING: 1.0 С
- SEISMIC BRACING IS NOT REQUIRED FOR THE PLUMBING
- COMPONENTS.
- REFER TO THE SPECIFICATIONS.

# 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 AND GAS 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 INSTALL AN AGA LISTED NATURAL GAS COCK, DIRT LEG AND UNION IMMEDIATELY UPSTREAM OF EQUIPMENT CONNECTIONS. AS NOTED ON DRAWINGS PROVIDE AN AGA LISTED VENT LIMITING GAS REGULATOR. GAS REGULATORS SHALL NOT BE INSTALLED IN AIR PLENUMS (SEE HVAC PLANS FOR AIR PLENUM LOCATIONS). PAINT ALL NATURAL GAS PIPING WITH TWO COATS OF OIL BASED YELLOW PAINT IN ALL LOCATIONS NOT SPECIFIED BY ARCHITECT.
- 19 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.
- 20 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.
- 21 MAINTAIN 10'-0" MINIMUM CLEARANCE BETWEEN FRESH AIR INTAKES, OPERABLE WINDOWS AND FLUES, PLUMBING VENTS AND GAS REGULATORS. 22 ALL SEWER & VENT PIPING SHALL BE RODDED AND CLEANED AT END OF CONSTRUCTION. ALL TRAPS SHALL BE CLEANED AND PRIMED AT END OF
- CONSTRUCTION. 23 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.
- 24 PROVIDE WATER HAMMER ARRESTORS IN FIXTURE BRANCHES WHERE QUICK CLOSING VALVES ARE INSTALLED; i.e., FLUSH VALVES, ICE MAKERS, DISHWASHERS. ETC.
- 25 BELOW SLAB WATER PIPE TO BE TYPE K SOFT DRAWN COPPER WITHOUT FITTINGS OR JOINTS. SLEEVE IN ENTIRETY WITH ARMAFLEX OR APPROPRIATE POLYETHYLENE SLEEVE MATERIAL.
- 26 PROVIDE APPROVED BACKFLOW PREVENTION OR ANTI-SIPHON DEVICES AT ALL FIXTURES THAT COULD CONTAMINATE THE POTABLE WATER SYSTEM.
- 27 INSULATE ALL WATER PIPING ABOVE FINISH FLOOR. SEE SPECIFICATIONS FOR THICKNESS SCHEDULE.
- 28 INSULATE ALL EXPOSED HOT WATER & DRAIN PIPING FOR ACCESSIBLE FIXTURES PER ANSI A117.1 AND ADA REQUIREMENTS.
- 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

# 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.

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.

![](_page_38_Picture_64.jpeg)

DOMESTIC WATER SUPPLY: ROUTE 1-1/4" CW BELOW GRADE TO

BUILDING. PROVIDE WATER METER IN STRICT ACCORDANCE WITH THE LOCAL WATER UTILITY'S REQUIREMENTS INCLUDING SIZE, TYPE, AND INSTALLATION DETAILS. CONFIRM ALL REQUIREMENTS PROIR TO BID OR ROUGH-IN. ANTICIPATED PEAK WATER DEMAND=15 GPM.

![](_page_39_Picture_2.jpeg)

![](_page_39_Picture_4.jpeg)

# **GENERAL NOTES**

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

# 1300 East 6th Street Little Rock, AR 72202 501.372.2900 cromwell.com

| AER<br>New<br>Post                                | OJET<br>Guard<br>- 2   |  |  |  |  |
|---|--|--|--|--|--|
| Design Phase —                                    |  |  |  |  |  |
| CON   |  |  |  |  |  |
| Revisions   |  |  |  |  |  |
| No. Date  | Description  |  |  |  |  |
|   |  |  |  |  |  |
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|   |  |  |  |  |  |
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|   |  |  |  |  |  |
| Stamp —   |  |  |  |  |  |
| Notes   | CROMWELL<br>ARCHITECTS/<br>ENGINEERS<br>#5<br>WSAS-ENGINITION<br>ARKANSAS<br>BEGISTERED<br>POFESSIONAL<br>ENGINEER<br>No. 12375<br>C L. GUID<br>OT-17-2024 |  |  |  |  |
| 1. CROMWELL AR                                    | CHITECTS ENGINEERS, INC.   |  |  |  |  |
| 2. THIS SHEET DES<br>CRITICAL INFO<br>BLACK AND W | IGNED FOR COLOR PRINTING.<br>RMATION MAY BE LOST WITH<br>HITE PRINTING.  |  |  |  |  |
| Project Number -                                  | 2024-052   |  |  |  |  |
| Sheet Title                                       | 07-17-2024   |  |  |  |  |
| OVERALL PLUMBING<br>PLAN                          |  |  |  |  |  |
| Sheet Number —                                    |  |  |  |  |  |
| P   | ·101   |  |  |  |  |

![](_page_40_Figure_0.jpeg)

![](_page_40_Figure_1.jpeg)

![](_page_40_Figure_2.jpeg)

![](_page_40_Figure_3.jpeg)

![](_page_40_Figure_4.jpeg)

\_\_\_\_\_SPAN VARIES VERIFY WITH STRUCTURAL

![](_page_40_Figure_5.jpeg)

**CROMWELL** 

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Project

![](_page_41_Figure_0.jpeg)

![](_page_41_Picture_1.jpeg)

![](_page_41_Figure_2.jpeg)

-2" SS

| ID    | BASIS OF DESIGN         |                           |   |
|-------|-------------------------|---------------------------|---|
|       | MANUFACTURER & MODEL    | UTILITY CONNECTION        |   |
| RPZ-1 | FEBCO #825YA,           | 1"CW                      | REDUCED PRESSURE ZONE ASSEMBLY - 13-1/3"x8-1/2"x8", 1 |
|       |                         |                           | ALL SEAT DISCS SHALL BE REVERSIBLE, INCLUDES TWO INI  |
|       |                         |                           | TEMPERATURE RANGE 32F-140F, 11 PSI HEAD LOSS @23 GF   |
| FCO   | WATTS #CO-1200-RX-4-NH, | SAME SIZE AS LINE, MAX 4" | FLOOR CLEANOUT - SAME SIZE AS LINE, MAX. 4", EPOXY CO |
| DCOTG | WADE, 6000-12 SERIES    | SAME SIZE AS LINE, MAX 4" | CLEANOUT-TO-GRADE/DOUBLE-CLEANOUT-TO-GRADE - SAM      |

| ID   | BASIS OF DESIGN             |                     | ELECTRICAL                        |         |       |        |      |  |  |  |  |  |
|------|-----------------------------|---------------------|-----------------------------------|---------|-------|--------|------|--|--|--|--|--|
|      | MANUFACTURER & MODEL        | UTILITY CONNECTIONS | CONNECTION TYPE                   | VOLTAGE | PHASE | POWER  | AMPS |  |  |  |  |  |
| WH-1 | CHRONOMITE<br>#CMI-15L/240, | 1/2"CW, 1/2"HW      | HARDWIRED WITH<br>GFCI PROTECTION | 240 V   | 1     | 3.6 kW | 15   |  |  |  |  |  |

|        | BASI   |  |        |       |             |    |   |
|--------|--|--|--------|-------|-------------|----|---|
| ID     | MANUFACTURER & MODEL   | COLD   | HOT    | WASTE | INDIRECT    | VE |   |
| WC-1   | WATER CLOSET - AMERICAN<br>STANDARD "MADERA" #3043.001,<br>FLUSH VALVE - SLOAN #111-1.6, | AMERICAN STANDARD SEAT<br>#5901.100SS,   | 1"     |       | 4"          |    | 2 |
| LV-1   | SINK - AMERICAN STANDARD<br>"AQUALYN" #0476.028<br>FAUCET - DELTA #22C451,               | OPEN GRID STRAINER - DELTA #33T260,<br>P-TRAP - ZURN #Z8701-PC,<br>SUPPLY STOP VALVES - ZURN<br>#Z8807-XL-LR-PC, | 1/2"   | 1/2"  | 1-1/2"      |    | 2 |
| SK-1   | SINK - JUST MANUFACTURING<br>#SLADA17519A55-J,<br>FAUCET - DELTA #100LF-HDF,             | DRAIN - JUST MANUFACTURING #J-35,<br>P-TRAP - ZURN #8702-PC,<br>SUPPLY STOP VALVES - ZURN<br>#Z8807-XL-LR-PC,    | 1/2"   | 1/2"  | 2"          |    |   |
| HB-1   | WOODFORD, 26   | PROVIDE FULL PORT ISOLATION BALL<br>VALVE FOR FIXTURE,   | 3/4"   |       |             |    | - |
| FPWH-1 | WOODFORD #B67,   | PROVIDE FULL PORT ISOLATION BALL<br>VALVE FOR FIXTURE,   | 3/4"   |       |             |    | - |
| FS-1   | ZURN #Z1910,   | TRAP SEAL DEVICE,  |        |       | SEE<br>PLAN |    |   |
| WS-1   | CULLIGAN, HE-60, 12"   |  | 1-1/4" |       |             |    | - |
| WF-1   | CULLIGAN, HE 10" FILTER CLEER  |  | 1-1/4" |       |             |    | - |

# PLUMBING ACCESSORY

SPECIFICATION

" ASSEMBLY, VERTICAL UP FLOW IN/HORIZONTAL FLOW OUT, MAINLINE VALVE & RELIEF VALVE BODY SHALL BE BRONZE, CHECK VALVE MOVING MEMBERS SHALL BE CENTER STE IDEPENDENTLY OPERATING, SPRING LOADED, "Y' PATTERN CHECK VALVES, AND ONE HYDRAULICALLY DEPENDENT DIFFERENTIAL RELIEF VALVE, INCLUDE WYE-STRAINER ON VE IPM, ASSE 1013 CERTIFIED, ANSI/AWWA C511 APPROVED

OATED CAST IRON FLOOR CLEANOUT WITH 5" ROUND ADJUSTABLE GASKETED EXTRA HEAVY DUTY STAINLESS STEEL TOP, REMOVABLE GAS TIGHT GASKETED BRASS CLEANOUT ME SIZE AS LINE, MAX. 4 INCH, HEAVY DUTY CAST IRON, FERRULE, THREADED ADJUSTABLE HOUSING, INTEGRAL CLAMPING COLLAR, ABS PLUG, 7-1/8 INCH SQUARE HEAVY DUTY

# PLUMBING EQUIPMENT

SPECIFICATION

15 ELECTRIC TANKLESS WATER HEATER - 49°F RISE @ 0.5 GPM, 13-7/16"x6-1/4"x2-3/4"D, POINT-OF-USE, MULTIPLE LAVATORY, 0.2 GPM ACTIVATION FLOW, FACTORY SET THERMOSTATIC TEMPERATURE CONTROL, ASSE 1070 COMPLIANT, LESS DISCONNECT SWITCH

## **PLUMBING FIXTURE** SPECIFICATION 'ENT TRAP WATER CLOSET - ADA ACCESSIBLE, 16-1/2" RIM HEIGHT, FLOOR MTD, VITREOUS CHINA LESS EVERCLEAN SURFACE, ELONGATED BOWL, INTEGRAL STOPS AN GPF, POLISHED CHROME FINISH, TOP SPUD, MANUAL SINGLE FLUSH, PERMEX SYNTHETIC RUBBER DIAPHRAGM WITH LINEAR FILTERED BYPASS AND VORTE INTEGRAL 2" VANDAL RESISTANT STOP CAP ON ANGLE CHECK STOP, SEAT - OPEN FRONT ELONGATED SEAT, SELF SUSTAINING, LESS COVER LAVATORY - ADA COMPLIANT, 20-3/8"x17-3/8"x5-5/8"D (16"x10"x5-5/8" INSIDE), DROP IN-COUNTERTOP, WHITE VITREOUS CHINA, FRONT OVERFLOW, THREE FAU LEVER, POLISHED CHROME-PLATED FINISH, LEAD FREE, 2.8" SPOUT HEIGHT, 5.9" SPOUT REACH, VANDAL RESISTANT SPRAY OUTLET, OPEN GRID STRAINER 1-1/4" 2" SINK - ADA COMPLIANT, 19"x18"x5-1/2"D, 1 COMPARTMENT (16"x11-1/2"x5-3/8"D INSIDE), COUNTER-TOP DROP IN, SELF RIMMING, 18 GAUGE TYPE 304 STAINLES FAUCET HOLES ON 8" CENTERS, FAUCET - 1.5 GPM, CHROME PLATED LEAD FREE, MANUAL SINGLE HANDLE, 4-3/4" SPOUT HEIGHT, 8-11/16" SPOUT REACH, SW 1-1/2" HOSE BIBB - 3-3/4"x4-3/4", BRASS CONSTRUCTION, EPDM PACKING, POLYCARBONATE WHEEL HANDLE AND LOOSE TEE KEY, 1/2" INLET, 125 PSI MAX PRESSUR ---INDEPENDENT CHECKS, DRAINS AUTOMATICALLY, ASSE 1052 APPROVED T FREEZEPROOF WALL HYDRANT - SIZE FOR WALL THICKNESS+4", RED BRASS VALVE BODY, 3/8" SOLID BRASS OPERATING ROD, HARDENED STAINLESS STEEL ---DRAIN PORT UNDER NOZZLE, 3/4" HOSE CONNECTION W/ HIGH FLOW DOUBLE CHECK BACKFLOW PREVENTER, ADJUSTABLE WALL CLAMP, ASSE 1052 CERTIF FLOOR SINK - 8"x8"x6-1/2"D, ACID RESISTANT PORCELAIN ENAMEL COATING ON DRAIN AND GRATE, LOOSE SET 1/2 GRATE, ANTI-SPLASH ALUMINUM DOME ST SEE PLAN 2" MI-GUARD. WATER SOFTENER SYSTEM, 2.0 CU. FT. RESIN, 12.6 GPM @ 15 PSIG AUXILIARY FLOW, 3.0 GPM MAX. DRAIN FLOW, 59267 @ 24 DOWNFLOW REGEN. MAX. CAPAC ---WATER FILTER SYSTEM, 12.0 GPM @ 15 PSIG RATED SERVICE FLOW, 7.0 GPM MAX. DRAIN FLOW. -------

|                                   |                                       | WATER H                           |               |
|-----------------------------------|---------------------------------------|-----------------------------------|---------------|
| P.D.I. UNITS                      | Α                                     | В                                 |               |
| FIXTURE UNITS                     | 1-11                                  | 12-32                             |               |
| WADE "SHOKSTO<br>PISTON, (2) EPDN | )P" #4481 SERIES<br>/I ORINGS, MNPT ( | WATER HAMMER (<br>CONNECTION, MA) | arri<br>K. pr |
|                                   | STORS AND LOCA                        |                                   |               |
|                                   | UTER, ICE MAREI                       | 10, SOLLINOID VAL                 |               |

|   | 1300 East 6th StreetLittle Rock, AR 72202501.372.2900cromwell.com  |
|---|--|
|   | Project<br>AEROJET   |
| EM GUIDED, RELIEF VALVE SHALL HAVE REMOVABLE SEAT RING,<br>ERTICAL INLET, MAX WORKING PRESSURE 175 PSI, MAX   | New Guard  |
| FPLUG, AND NO HUB OUTLET  | Post - 2   |
|   |  |
| TO 110°F, 99% ENERGY EFFECIENT, MICROPROCESSOR  |  |
|   | Design Phase   |
| ND TRAP, SIPHON JET, 1-1/2" EXPOSED TOP SPUD, FLUSH VALVE - 1.6<br>EX CLEANSING ACTION, VACUUM BREAKER WITH FLUSH CONNECTION,   | CONSTRUCTION         DOCUMENTS         Revisions         No.       Date         Description                      |
| ICET HOLES ON 4" CENTERS, FAUCET - 0.5 GPM, MANUAL, SINGLE<br>INCLUDED, CARRIER - CONCEALED ARM WALL CARRIER  |  |
| SS STEEL, LUSTROUS SATIN FINISH, CENTER DRAIN OUTLET, THREE<br>NIVEL SPOUT, DECK MTD, 10-1/2" DECK PLATE  |  |
| RE, 120F MAX TEMP, INCLUDES BACKFLOW PREVENTER WITH TWO   |  |
| L STEM, ONE PIECE VALVE PLUNGER, COPPER CASTING TUBES,<br>FIED  |  |
| CITY.   | Stamp  |
|   | CROMWELL   |
|   | ARCHITECTS/<br>ENGINEERS<br>#5   |
| C D E F   | TITIN SAS-ENGINITI   |
| 33-6061-113114-154155-330EESSTOR, SEAMLESS COPPER CONSTRUCTION, POLYPROPYLENE<br>RESS. 350 PSI, MAX. TEMP. 250°F, PROVIDE PROPERLY SIZED WATER<br>IATELY UPSTREAM OF ALL QUICK CLOSING VLAVES (E.G. FLUSH<br>S, ETC.) | ARMANISAS<br>BEGISTERED<br>PROFESSIONAL<br>ENGINEER  |
|   | No. 12375<br>No. 12375<br>07-17-2024<br>Notes  |
|   | 1. CROMWELL ARCHITECTS ENGINEERS, INC.<br>ALL RIGHTS RESERVED  |
|   | 2. THIS SHEET DESIGNED FOR COLOR PRINTING.<br>CRITICAL INFORMATION MAY BE LOST WITH<br>BLACK AND WHITE PRINTING. |
|   | Project Number         2024-052           Issue Date   |
|   | Sheet Title  |
|   | PLUMBING<br>SCHEDULES  |
|   | Sheet Number   |
|   | <b>P-601</b>   |

| MINI SPLIT-SYSTEM HEAT PUMP SCHEDULE |                  |                         |                        |                        |        |                     |                     |            |         |         |       |                     |            |       |          |      |     |           |
|--------------------------------------|------------------|-------------------------|------------------------|------------------------|--------|---------------------|---------------------|------------|---------|---------|-------|---------------------|------------|-------|----------|------|-----|-----------|
| INDOOR UNIT                          |                  |                         |                        | OUTDOOR UNIT           |        | COOLING             |                     |            | HEATING |         |       | ELECTRICAL          |            |       |          |      |     |           |
| MARK                                 | *MANUF'R./ MODEL | TYPE                    | SERVES                 | FAN CFM<br>(HI/MED/LO) | MARK   | *MANUF'R./<br>MODEL | TOT. CAP.<br>(BTUH) | EDB<br>(F) | EWB (F) | AMB (F) | SEER2 | TOT. CAP.<br>(BTUH) | AMB<br>(F) | HSPF2 | VOLTAGE  | MCA  | BKR | REMARKS   |
| MSFC-1                               | LG LVN120HCV     | VERTICAL AIR<br>HANDLER | GUARD POST<br>BUILDING | 580 / 480 / 380        | MSHP-1 | LG LVU120HCV        | 12,000              | 80.0       | 67.0    | 95.0    | 16.0  | 15,000              | 47.0       | 9.3   | 208/1/60 | 13.8 | 20A | SEE NOTES |
| * OR APPF                            | ROVED EQUAL      |                         |                        |                        |        |                     |                     |            |         |         |       |                     |            |       |          |      |     |           |

NOTES:

1. SYSTEM SHALL BE COMPLETE WITH INDOOR AND OUTDOOR UNIT FROM SAME MANUFACTURER

2. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT

3. VARIABLE SPEED INVERTER SCROLL COMPRESSOR

4. ELECTRICALLY COMMUTATED INDOOR FAN MOTOR

5. ELECTRICALLY COMMUTATED OUTDOOR FAN MOTOR

6. HARD-WIRED WALL THERMOSTAT

7. AUTO RESTART

8. 24-HOUR ON/OFF TIMER

9. LOW AMBIENT TO 14-DEGREES F 10. CONDENSATE SENSOR CONNECTION

11. FIVE YEAR COMPRESSOR WARRANTY

12. TWO YEAR FUNCTIONAL PARTS WARRANTY

|        |                    | E                               | XHAL   | IST F | AN  | SC   | HED | DUL | =        |      |                              |    |
|--------|--------------------|---------------------------------|--------|-------|-----|------|-----|-----|----------|------|------------------------------|----|
|        | GENERA             | L                               |        |       | FAN |      |     |     |          | ELEC | CTRICAL                      | R  |
| EF-1   | GREENHECK CSP-A110 | RESTROOM / STORM<br>SHELTER 101 | DIRECT | CENT. | 70  | 1/8" | 728 | 0.3 | 120/1/60 | 20W  | INTERLOCK W/TLT<br>RM LIGHTS | SE |
| * OR A | APPROVED EQUAL     |                                 |        |       |     |      |     |     |          |      | •                            |    |

NOTES

1. FACTORY MOUNTED INTEGRAL DISCONNECT AND BACKDRAFT DAMPER.

2. SOLID STATE SPEED CONTROL FACTORY MOUNTED ON FAN HOUSING.

3. WALL CAP EQUAL TO A GREENHECK #WC-10X3 WITH INTEGRAL BIRDSCREEN, BACKDRAFT DAMPER, AND BLACK ENAMEL FINISH.

|        |                    |               | AIR | CURTAI     | N SCHI  | =DUI F        |        |                    |       |
|--------|--------------------|---------------|-----|------------|---------|---------------|--------|--------------------|-------|
|        |                    |               |     | DOOR WIDTH | HEATING |               | MOTOP  |                    |       |
|        |                    | SERVES        |     | (IN)       | (BTUH)  | VOLTAGE       | WOTOR  | CONTROL            |       |
| AC-1   | POWEREDAIR MP-1-36 | SEE PLANS     | 984 | 36.0       | N/A     | 120/1/60      | 1/5 HP | MOTION<br>DETECTOR | SEE N |
| NOTES: |                    | TS INTEGRAL D |     |            |         | IRER'S STANDA |        |                    |       |

I. PROVIDE WITH MOUNTING BRACKETS, INTEGRAL DISCONNECT SWITCH, AND MANUFACTURER 5 STANDARD MOTION DETECTOR.

|        | AIR DEVICE         |       | Key<br>No. If Mo<br>Than On | DRE<br>IE MARK | 4 TH<br>A 4<br>210 CF | IROW<br>M |       |         |
|--------|--------------------|-------|-----------------------------|----------------|-----------------------|-----------|-------|---------|
| MARK   | DESCRIPTION        | SIZE  | MOUNTING                    | MATERIAL       | FINISH                | *MANUF'R  | MODEL | REMARKS |
| А      | SQUARE CONE        | 24x24 | LAY-IN CLG.                 | ALUMINUM       | WHITE                 | PRICE     | ASCD  | NONE    |
| В      | SQUARE CONE        | 12x12 | LAY-IN CLG.                 | ALUMINUM       | WHITE                 | PRICE     | ASCD  | NOTE 1  |
|        |                    |       |                             |                |                       |           |       |         |
| 1      | CUBE CORE          | 12x12 | LAY-IN CLG.                 | ALUMINUM       | WHITE                 | PRICE     | 80    | NOTE 1  |
| 2      | CUBE CORE          | 24x24 | LAY-IN CLG.                 | ALUMINUM       | WHITE                 | PRICE     | 80    | NONE    |
| 3      | 45-DEG FIXED BLADE | 12x12 | SOFFIT                      | ALUMINUM       | FIELD PAINT           | PRICE     | 630   | NONE    |
| NOTES: |                    |       |                             |                |                       |           |       | •       |

## **GENERAL NOTES**

- 1. ALL WORK SHALL COMPLY WITH THE 2021EDITION 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 PROJECT MANUAL FOR ALL REQUIREMENTS
- 3. REFER TO ARCHITECTURAL PLANS FOR:
- A. REFLECTED CEILING PLAN FOR EXACT LOCATION OF AIR DEVICES AND CEILING TYPES.
- B. EXACT LOCATIONS AND MOUNTING HEIGHTS OF EXTERIOR LOUVERS.
- C. 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:
- A. SUPPLY TAKE-OFFS TO CEILING SUPPLY DIFFUSERS TO BE CONICAL TAP OR 45° SIDE TAP.
- B. ALL DUCT RUN-OUTS TO HAVE LOCKING QUADRANT VOLUME DAMPERS. PROVIDE STAND-OFF BRACKET TO ACCOMMODATE INSULATION THICKNESS.
- C. ALL 90° ROUND ELBOWS TO HAVE R/D=1.5 (UNLESS OTHERWISE NOTED).
- D. ALL 90° RECTANGULAR ELBOWS TO HAVE TURNING VANES (UNLESS OTHERWISE NOTED).
- E. 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. COMPLETELY INSULATE THE TOPS OF ALL CEILING DIFFUSERS.
- 9. CLOSELY COORDINATE LOCATIONS OF INSTALLED EQUIPMENT TO ACHIEVE THE GREATEST ACCESSIBILITY.

10. MAINTAIN 10'-0" MINIMUM CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND ALL EXHAUST FANS, FLUES, PLUMBING VENTS, ETC. 11. PROVIDE FLEXIBLE CONNECTIONS AT INLETS AND OUTLETS OF ALL AIR HANDLING UNITS, MAKE-UP AIR UNITS, FURNACES, AND/OR EXHAUST FANS. 12. CONDENSATE PIPING SHALL BE COMPRISED OF TYPE "M", DWV COPPER, OR SCHEDULE 40 PVC. PVC EXPOSED TO SUNLIGHT SHALL HAVE UV RESISTANT COATING. 13. 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.
- 14. 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
- 15. SLEEVE AND SEAL ALL PIPE AND DUCT PENETRATIONS THROUGH FIRE RATED AND NON-RATED SLABS AND PARTITIONS.

| AFFABOVE FINISHED FLOORAHUAIR HANDLING UNITBHPBRAKE HORSE POWERBTUBRITISH THERMAL UNITCFMCUBIC FEET PER MINUTECVCONSTANT VOLUMECUCONDENSING UNITDBDRY BULB TEMPERATURE (°F)DDCDIRECT DIGITAL CONTROLSDOAS DEDICATED OUTSIDE AIR SYSTEDDNDOWNEATENTERING AIR TEMPERATUREEFEXHAUST FANESPEXTERNAL STATIC PRESSUREEWTENTERING WATER TEMPERATURFCUFAN COIL UNITFDFIRE DAMPERFLAFULL LOAD AMPSFPIFINS PER INCHFPMFEET PER MINUTEGPMGALLONS PER MINUTEIVINTAKE VENTILATORKWKILOWATTLATLEAVING AIR TEMPERATURELRALOCKED ROTOR AMPSLWTLEAVING WATER TEMPERATURE | MBH<br>MCA<br>MOCP<br>NC<br>NO<br>NTS<br>OA<br>PSI<br>PVC<br>RA<br>RH<br>RHC<br>E RLA<br>RHC<br>E RLA<br>RHC<br>RS/RL<br>RTU<br>SA<br>SF<br>SP<br>TSP<br>VAV<br>VRF<br>VFD | THOUSAND BTUS PER HOUR<br>MINIMUM CIRCUIT AMPS<br>MAXIMUM OVER CURRENT<br>PROTECTION<br>NORMALLY CLOSED<br>NORMALLY OPENED<br>NOT TO SCALE<br>OUTSIDE AIR<br>POUNDS PER SQUARE INCH<br>PSI GAUGE<br>POLYVINYL CHLORIDE PIPE<br>RETURN AIR<br>RELATIVE HUMIDITY<br>REHEAT COIL<br>RUNNING LOAD AMPS<br>REVOLUTIONS PER MINUTE<br>REFRIGERANT SUCTION & LIQUID<br>LINES<br>ROOFTOP AIR HANDLING UNIT<br>SUPPLY AIR<br>SUPPLY FAN<br>STATIC PRESSURE<br>TOTAL STATIC PRESSURE<br>VARIABLE AIR VOLUME<br>VARIABLE REFRIGERANT FLOW<br>VARIABLE FREQUENCY DRIVE |   |
|---|--|--|---|
|   | WB   | WET BULB TEMPERATURE (°F)  |   |
| GENERAL MEC   | HANICA   | L SYMBOLS  | 1 |
| REVISIO   | N NUME   | ER SHOWN ON PLANS  |   |
| POINT V<br>EXISTIN  | VHERE N<br>G   | IEW CONNECTS TO  |   |
|   | SH TO P  | OINT INDICATED   |   |
| 1 NUMBEI<br>M-001 NUMBEI  | r of de <sup>-</sup><br>R of Shi   | TAIL ON SHEET<br>EET WHERE DETAIL  |   |
|   | RS<br>FF   |  |   |
|   |  |  |   |
|   |  | <u>STINDOLS.</u>   |   |
|   |  | пист   | I |
| SPACE TAG   | OULAN  | 0001   |   |
|   | NAME   |  |   |
|   | NUMRER   | 2  |   |
|   | ARFA   | ·  |   |
|   | ) BE DEN   | IOLISHED   |   |
| ARFA N  | OT IN CO   | DNTRACT  |   |
|   |  |  |   |

|    | SEISMIC DESIGN CONDITIONS  |
|----|--|
| 1. | SEISMIC DESIGN DATA:<br>A. SEISMIC DESIGN CATEGORY: C<br>B. MECHANICAL COMPONENTS IMPORTANCE FACTOR:1.0  |
| 2. | SEISEMIC RESTRAINTS ARE NOT REQUIRED FOR THE<br>MECHANICAL COMPONENTS AND SYSTEMS PER THE<br>REQUIREMENTS FOR THE INTERNATIONAL BUILDING CODE<br>(IBC) AS DEFINED PER ASCE 7 - SECTION 13.6. |
| 3. | REFER TO THE SPECIFICATIONS.   |

 $\times$ 

## EMARKS EE NOTES

NOTES

## **ABBREVIATIONS**

![](_page_43_Figure_53.jpeg)

1300 East 6th Street Little Rock, AR 72202 501.372.2900 cromwell.com Proiect AEROJET New Guard Post - 2 Design Phase CONSTRUCTION DOCUMENTS Revisions No. Date Description Stamp CROMWELL ARCHITECTS/ ENGINEERS #5 07-17-2024 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 — 2024-052 Issue Date -07-17-2024 Sheet Title -MECHANICAL LEGEND, SYMBOLS, GENERAL NOTES, AND SCHEDULES Sheet Number

C R O M W E L L

![](_page_44_Figure_0.jpeg)

AEROJET New Guard Post - 2 Design Phase CONSTRUCTION DOCUMENTS Revisions Date Description No. Stamp CROMWELL ARCHITECTS/ ENGINEERS #5 07-17-2024 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 2024-052 Issue Date 07-17-2024 Sheet Title FIRST FLOOR MECHANICAL PLAN Sheet Number -**M-101** 

Project

![](_page_45_Figure_0.jpeg)

| <b>C R</b><br>1300 East 6th Str<br>501.372.2900   | <b>OMWELL</b><br>reet Little Rock, AR 72202<br>cromwell.com   |
|---|---|
| AER<br>New<br>Post  | OJET<br>Guard<br>- 2  |
| Design Phase  | STRUCTION<br>CUMENTS<br>Description   |
|   |   |
| Stamp   | CROMWELL<br>ARCHITECTS/<br>ENGINEERS<br>#5<br>NSAS-ENGINIUM<br>ARMANAAS<br>BEGISTERED<br>NO-TESSIONAL<br>ENGINEER<br>No. 12375<br>TEL. GUID<br>07-17-2024 |
| Notes         1. CROMWELL AL<br>ALL RIGHTS RE         2. THIS SHEET DES<br>CRITICAL INFO<br>BLACK AND W         Project Number         Issue Date | RCHITECTS ENGINEERS, INC.<br>SERVED<br>SIGNED FOR COLOR PRINTING.<br>DRMATION MAY BE LOST WITH<br>(HITE PRINTING.<br>2024-052<br>07-17-2024               |
| Sheet Title   | NICAL DETAILS   |

NOTES:

- 1. WHERE FULL RADIUS TURNS ARE NOT POSSIBLE, MITERED ELL'S WITH TURNING VANES SHALL BE PROVIDED FOR ALL CHANGES IN HORIZONTAL AND VERTICAL DUCT DIRECTION 45-DEGREE OR GREATER.
- 2. CONSTRUCT ELBOWS IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE.
- 3. TURNING VANE ELBOW SHALL BE ASHRAE FITTING CR3-9 WITH SINGLE WIDTH VANES FOR VANE LENGTHS UP TO 24".
- 4. TURNING VANE ELBOW SHALL BE ASHRAE FITTING CR3-15 WITH DOUBLE WIDTH VANES FOR VANE LENGTHS OVER 24".
- 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-PIECE.
- VANES SHALL BE WELDED TO THE VANE RAIL IN 6. DUCT SYSTEMS WITH AIR VELOCITIES 3000 FPM AND HIGHER.
- 7. SHORT RADIUS ELBOWS, ELBOWS WITH MITERED THROATS/RADIUS HEELS, AND ELBOWS WITH MITERED THROATS/CHAMFERED HEELS ARE NOT ACCEPTABLE.

VANE RAIL

# ELECTRICAL SYMBOLS

RECEPTACLES (MOUNTED 18" AFF UNLESS INDICATED OTHERWISE)

- $\oplus$ DUPLEX RECEPTACLE OUTLET (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)
- DUPLEX RECEPTACLE OUTLET (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R) MOUNT 4" ABOVE COUNTER TOP, SINK, OR BACKSPLASH (IF PRESENT)
- Ð SINGLE RECEPTACLE OUTLET (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)
- $\ominus$ FLOOR RECEPTACLE OUTLET (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)
- € SINGLE RECEPTACLE OUTLET (50A, 250V, 3 POLE, 3 WIRE, NEMA 10-50R)
- Ю SINGLE RECEPTACLE OUTLET (20A, 250V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 6-20R)
- ч SINGLE RECEPTACLE OUTLET (30A, 250V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 6-30R)
- SINGLE RECEPTACLE OUTLET (30A, 250V, 3 POLE, 4 WIRE, TWIST-LOCK, GROUNDING TYPE, чØ NEMA L15-30R)
- чØ SINGLE SPECIAL-PURPOSE RECEPTACLE OUTLET; NUMBER CORRESPONDS TO THE SPECIAL-PURPOSE RECEPTACLE SCHEDULE
- €₽ SINGLE RECEPTACLE FOR ELECTRIC RANGE (50A, 125/250V, 3 POLE, 4 WIRE, GROUNDING TYPE, NEMA 14-50R)
- $\Rightarrow$ DUPLEX RECEPTACLE MOUNTED IN CEILING (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)
- ∰ TWO (2) DUPLEX RECEPTACLES MOUNTED IN DOUBLE GANG BACKBOX (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)
- $\bigoplus$ TWO (2) DUPLEX RECEPTACLES FLOOR MOUNTED IN DOUBLE GANG BACKBOX (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)

LIGHT FIXTURES (SEE FIXTURE SCHEDULE ON E-601 FOR TYPE)

0 LIGHT FIXTURE, CEILING MOUNTED  $\square$  $\bigcirc$ LIGHT FIXTURE, CEILING MOUNTED, ON EMERGENCY CIRCUIT LIGHT FIXTURE, CEILING MOUNTED, WITH EMERGENCY SELF CONTAINED BATTERY PACK. **O** BATTERY PACK IS TO REMAIN UNSWITCHED. **P** LIGHT FIXTURE, WALL MOUNTED LIGHT FIXTURE, INDUSTRIAL STRIP, SURFACE OR PENDANT MOUNTED **bA** LIGHT FIXTURE, INDUSTRIAL STRIP, SURFACE OR PENDANT MOUNTED, ON EMERGENCY CIRCUIT LIGHT FIXTURE, INDUSTRIAL STRIP, SURFACE OR PENDANT MOUNTED, WITH EMERGENCY SELF CONTAINED BATTERY PACK. BATTERY PACK IS TO REMAIN UNSWITCHED. CB Ο LIGHT FIXTURE, CEILING MOUNTED Т  $\oslash$ LIGHT FIXTURE, CEILING MOUNTED, ON EMERGENCY CIRCUIT LIGHT FIXTURE, CEILING MOUNTED, WITH EMERGENCY SELF CONTAINED BATTERY PACK. BATTERY PACK IS TO REMAIN UNSWITCHED. LIGHT FIXTURE, WALL MOUNTED С <sup>\$</sup>2 EMERGENCY BATTERY POWERED LIGHTING UNIT, WITH SELF CONTAINED BATTERY, CHARGER, ETC. (REFER TO FIXTURE SCHEDULE FOR BATTERY TYPE, VOLTAGE, LAMP TYPE, WATTAGE, ETC.) TRIANGLES DEPICT QUANTITY AND AIMING OF LAMP HEADS EXIT SIGN, LIGHTED, CEILING MOUNTED. SHADED AREA INDICATES FACE. ARROW DEPICTS DIRECTIONAL ARROW ON SIGN. WHEN REQUIRED BY THE FIXTURE SCHEDULE, AN EMERGENCY SELF-CONTAINED BATTERY PACK IS TO REMAIN UNSWITCHED. EXIT SIGN, LIGHTED, WALL MOUNTED AT 7'-6" AFF (TO BOTTOM OF SIGN) UNLESS INDICATED **€**H OTHERWISE. ARROW DEPICTS DIRECTIONAL ARROW ON SIGN. WHEN REQUIRED BY THE FIXTURE \$<sub>М</sub> SCHEDULE, AN EMERGENCY SELF-CONTAINED BATTERY PACK IS TO REMAIN UNSWITCHED. **-**O-FLOOD LIGHT, ARROW INDICATES DIRECTION OF BEAM ۶D 4 DOCK LIGHT \$х 어 🗆 PARKING AREA LIGHT FIXTURE, POLE MOUNTED

INDICATED OTHER **TELEPHONE OUT** AND PULL CORD. **TELEPHONE FLOC** SPACE AND PULL DATA OUTLET. OL  $\triangleright$ PULL CORD.  $\triangleright$ DATA FLOOR OUT SPACE AND PULL COMBINATION VC **CEILING SPACE AI** COMBINATION VC ACCESSIBLE CEILI 4'-0" HIGH x 3/4" T WIRELESS ACCES ABOVE ACCESS C JACKS. ABSENCE CABLE TRAY LIGHT FIXTURE IDEN - LOWER CASE LETTER BESIDE FIXTURE DENOTES 0 SWITCH CONTROL (WHERE APPLICABLE)

└─ UPPER CASE LETTER BESIDE EACH FIXTURE DENOTES FIXTURE TYPE.

## <u>SWITCHGEAR</u>

- MAGNETIC MOTOR STARTER (FURNISHED BY DIVISION 23, UNLESS NOTED OTHERWISE) ELECTRICAL PANELBOARD, FLUSH MOUNTED ELECTRICAL PANELBOARD, SURFACE MOUNTED EXISTING ELECTRICAL PANELBOARD, FLUSH MOUNTED EXISTING ELECTRICAL PANELBOARD, SURFACE MOUNTED SAFETY SWITCH: 30A CURRENT RATING UNLESS NOTED OTHERWISE. +4'-0" TO HANDLE <sup>30</sup><sub>F20</sub> FUSIBLE SAFETY SWITCH; CURRENT RATING AND FUSE RATING NOTED. +4'-0" TO HANDLE

# CASE LETTER INDICATES DEVICES CONTROLLED)

- SWITCH, SINGLE POLE, 20A
- SWITCH, DOUBLE POLE, 20A SWITCH
- \$<sub>3</sub> 3-WAY, 20A SWITCH
- <sup>\$</sup>4 4-WAY, 20A SWITCH
- <sup>\$</sup>K KEY OPERATED
- \$P SINGLE POLE SWITCH, WITH
- SINGLE POLE MANUAL MOT OVERLOAD ELEMENT AND P
- SWITCH, DIMMING (COORDIN
- SWITCH, MULLION SWITCH
- \$LV LOW VOLTAGE WITH MOMEN
- <sup>\$</sup>O OCCUPANCY SENSOR, WALL
- OS OCCUPANCY SENSOR, CEILI
- PC PHOTOCELL

+6' 🗘 🛩

AFF

 $\varphi_{\rm s}$ 

## ELECTRICAL SYMBOLS

| TELEPHONE/COMMUNICATIONS/DATA (OUTLETS SHALL BE MOUNTED 18" AFF UNLESS  |        | ELECTRICAL SYMBOLS   |
|---|--------|--|
| INDICATED OTHERWISE)  |        |  |
| TELEPHONE OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE<br>AND PULL CORD. SUBSCRIPT: W - WALL MOUNTED AT 54" AFF;                       |        | THE STROBE IS BETWEEN 80" AND 96" AFF. ALL WALL<br>DEVICES                                 |
| TELEPHONE FLOOR OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE AND PULL CORD.  |        | SHALL BE MOUNTED AT THE SAME HEIGHT AFF TO AC<br>OR AS DIRECTED BY THE A/E.                |
| DATA OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE AND PULL CORD.   |        | MISCELLANEOUS  |
| DATA FLOOR OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING  | чŪ     | JUNCTION BOX, WALL MOUNT AS INDICATED  |
| SPACE AND PULL CORD.  | J      | JUNCTION BOX, CEILING MOUNT AS INDICATED   |
| COMBINATION VOICE/DATA OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE<br>CEILING SPACE AND PULL CORD.  | ۲Ô     | CLOCK OUTLET, WALL MOUNTED 7'-6" AFF   |
| COMBINATION VOICE/DATA FLOOR OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE   | Q      | MOTOR  |
|   | •@     | 10' BARE #6 COILED & EXOTHERMICALLY WELDED TO  |
| 4'-0" HIGH x 3/4" THICK FIRE-RETARDANT PLYWOOD BACKBOARD. SEE PLANS FOR LENGTH.<br>WIRELESS ACCESS POINT OUTLET CEILING MOUNTED. OUTLET BOX WITH 1" C STUBBED | ΓŢ     | CABLE TELEVISION OUTLET BOX MOUNTED 18" AFF V<br>STUBBED ABOVE CEILING. PROVIDE PULL CORD. |
| JACKS. ABSENCE OF A NUMBER INDICATES ONE DATA JACK.   |        | CONDUIT RUN, EXPOSED   |
| CABLE TRAY  |        | CONDUIT RUN, CONCEALED   |
|   | $\sim$ | FLEXIBLE CONDUIT   |
| HT FIXTURE IDENTIFICATION   |        | CLIIT  |

1GL1-1,3,5 -

- CIRCUIT BREAKER IN WALL MOUNTED ENCLOSURE
- ELECTRICAL TRANSFORMER, FLOOR MOUNTED UNLESS INDICATED OTHERWISE
- SWITCHES (MOUNTED AT 46", UNLESS INDICATED OTHERWISE) (LOWER

| I PILOT LIGHT   | D    |
|---|------|
| OR STARTING SWITCH, WITH THERMAL<br>PROVISIONS FOR LOCKING OPEN | M    |
| NATE WITH FIXTURE MANUFACTURER)                                 |      |
|   | KS   |
| NTARY CONTACTS SWITCH   | 0    |
| L MOUNTED, DUAL TECHNOLOGY                                      | <br> |
| ING MOUNTED, DUAL TECHNOLOGY                                    | ES   |
|   |      |

MULTIPLE DEVICES LOCATED SIDE BY SIDE (OR ABOVE AND BELOW, IF DIFFERENT ELEVATIONS ARE SHOWN) AT THE LOCATION INDICATED)

# 

|            | WALL MOUNTED VISUAL DEVICES TO BE LOCATED SUCH THAT THE ENTIRE LE<br>THE STROBE IS BETWEEN 80" AND 96" AFF. ALL WALL MOUNTED NOTIFICATIO<br>DEVICES<br>SHALL BE MOUNTED AT THE SAME HEIGHT AFF TO ACHIEVE A UNIFORM APPE<br>OR AS DIRECTED BY THE A/E.<br><u>MISCELLANEOUS</u> | ENS OF<br>N<br>EARANCE                | ABBREVIATIONS:<br>AFF = ABOVE FINISHED FLOOR<br>AFL = ABOVE FINISHED LANDING<br>GFI = GROUND FAULT INTERRUPTER<br>IG = ISOLATED GROUND<br>UIO = UNLESS INDICATED OTHERWISE<br>WP = WEATHERPROOF CONSTRUCTION<br>OF/OL = OWNER FURNISHED / OWNER INSTALLED | AEROJET<br>New Guard<br>Post - 2   |
|------------|--|---------------------------------------|---|--|
| ŀŪ         | JUNCTION BOX, WALL MOUNT AS INDICATED  |                                       | CF/CI = CONTRACTOR FURNISHED / CONTRACTOR INSTALLED   |  |
|            | JUNCTION BOX, CEILING MOUNT AS INDICATED   |                                       | NIC = NOT IN CONTRACT   |  |
| чĈ         | CLOCK OUTLET. WALL MOUNTED 7'-6" AFF   |                                       | GENERAL SYMBOLS NOTES:  |  |
| б<br>(     | MOTOR  |                                       | 1. ALL SYMBOLS MAY NOT BE USED.   |  |
| -<br>►@    | 10' BARE #6 COILED & EXOTHERMICALLY WELDED TO COLUMN   |                                       | 2. MOUNTING HEIGHTS ARE ABOVE FINISHED  |  |
| Ţ          | CABLE TELEVISION OUTLET BOX MOUNTED 18" AFF WITH CONDUIT STUBBED ABOVE CEILING. PROVIDE PULL CORD.   |                                       | FLOOR OR GRADE TO THE CENTER LINE OF THE<br>OUTLET, DEVICE, ETC. UNLESS INDICATED<br>OTHERWISE.   |  |
|            | CONDUIT RUN, EXPOSED   |                                       | 3. LARGE AMPACITY CIRCUIT DESIGNATION   |  |
|            | - CONDUIT RUN, CONCEALED   |                                       | MEANS IN EACH OF FOUR 4" CONDUITS INSTALL   |  |
| $\sim$     | J FLEXIBLE CONDUIT   |                                       | NEUTRAL AND ONE #1/0 GROUND.  | Design Phase   |
|            |  |                                       | 4. FOR CONCRETE SLAB PENETRATIONS WITH PVC, SEE DETAIL x, SHEET E-50x.  | CONSTRUCTION<br>DOCUMENTS  |
| _          | HOMERUN DESIGNATION  |                                       | SINGLE LINE   | Revisions  |
|            | PHASE CONDUCTOR(S)   | I,                                    | CIRCUIT BREAKER, TRIP RATING AS INDICATED, 3 POLE OR  |  |
|            | EQUIPMENT GROUND (PROVIDE EQUIPMENT GROUND FOR<br>BRANCH CIRCUITS AND FEEDERS, WHETHER SHOWN OR NO   | ALL <b>(</b> ')<br>)T.                | AS INDICATED  |  |
|            | WHERE SHOWN TO SHARE A CONDUIT, BRANCH CIRCUITS S<br>SHARE EQUIPMENT GROUND UNLESS INDICATED OTHERWIS  | HALL<br>SE)  _604                     | DISCONNECT SWITCH OR LOAD INTERRUPTER SWITCH,   |  |
| #8, 1"C '\ | NEUTRAL  | $\left( \right)$                      | CURRENT RATING AS INDICATED, 3 POLE OR AS INDICATED   |  |
|            |  |                                       | SWITCH WITH GROUND FAULT INTERRUPTER  |  |
|            | CIRCUIT DESIGNATION  | ſ                                     | <b>2</b>  |  |
| 0          | CIRCUIT DESIGNATION INDICATES PANELBOARD AND CIRCUIT(S) TO WHICH<br>HOMERUN IS CONNECTED.  |                                       | RS FUSE, CURRENT RATING AND TYPE WHEN INDICATED   | Stamp  |
| 0          | WIRE SIZE SHALL BE NO. 12, UNLESS INDICATED OTHERWISE.   |                                       | TRANSFORMER, DESCRIPTION AS NOTED OR PER  |  |
| 0          | CONDUIT SIZE SHALL BE MINIMUM ALLOWED BY SPECIFICATIONS FOR NO. 12<br>SIZE WIRE, 3/4" FOR NO. 10, UNLESS INDICATED OTHERWISE.  | ±,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | CURRENT TRANSFORMER   | CROMWELL<br>ARCHITECTS/<br>ENCINEERS   |
| 0          | CIRCUIT INFORMATION PROVIDED AT THE HOMERUN SYMBOL SHALL APPLY<br>THE ENTIRE LENGTH OF THE CIRCUIT (FROM PANELBOARD TO LAST LOAD).   |                                       | POTENTIAL TRANSFORMER   | #5<br>#5<br>MOASENCINITI   |
| 0          | WHEN NO PHASE CONDUCTOR OR NEUTRAL IS INDICATED AT THE HOMERUN<br>SYMBOL, PROVIDE ONE PHASE CONDUCTOR AND ONE NEUTRAL, BOTH NO. 12.  | SS                                    |   |  |
| 0          | SWITCHING CONDUCTORS, CONDUCTORS FOR NIGHT LIGHT CIRCUITS  |                                       |   | SARKANSAS  |
|            | (UNSWITCHED), ETC. ARE NOT SHOWN, BUT SHALL BE PROVIDED AS NECESSARY.  | $\langle \mathbf{v} \rangle$          |   | A W PROFESSIONAL<br>ENGINEER   |
| 0          | WIRE SIZE INDICATED ON THESE DOCUMENTS AS INDICATED BY "NO." OR "#"  |                                       |   | No. 22761  |
|            | HAS THE SAME MEANING AS "AWG" (N.E.C. NOMENCLATURE). (I.E."NO. 12" OR "# 12" MEANS "12AWG" IN N.E.C. NOMENCLATURE.)  | SPD                                   |   | 07-17-2024   |
|            |  |                                       |   | Notes  |
|            | <u>SECURITY</u>  |                                       | AUTOMATIC TRANSFER SWITCH   | 1. CROMWELL ARCHITECTS ENGINEERS, INC.<br>ALL RIGHTS RESERVED                      |
|            | MAGNETIC ALARM SWITCH  | G                                     | GENERATOR   | 2. THIS SHEET DESIGNED FOR COLOR PRINTING<br>CRITICAL INFORMATION MAY BE LOST WITH |
|            | DURESS ALARM SWITCH  |                                       |   | BLACK AND WHITE PRINTING. Project Number   |
|            | MOTION DETECTOR  | COLOF                                 | <u>R LEGEND:</u>  | 2024-052   |
| CD         | CAPACITIVE DETECTOR  | E                                     | EXISTING TO REMAIN  | Sheet Title 07-17-2024   |
|            | CCTV CAMERA LOCATION, CEILING MOUNTED UNLESS INDICATED OTHERWISE   |                                       | DEMOLISH  |  |
|            | KEYPAD ACCESS ALARM OVERRIDE CONTROL   |                                       | NEW CONSTRUCTION  | ELECTRICAL LEGEND  |
| <b>0</b>   | ELECTRIC PUSH-BUTTON   | LINEST                                | TYLE LEGEND:  |  |
|            | CARD READER  |                                       | DEMOLISH  | Sheet Number   |
| ES         | ELECTRIC STRIKE  |                                       | EXISTING TO REMAIN  |  |
| REX        | REQUEST TO EXIT PUSH BUTTON  |                                       | NFW/  |  |
|            |  |                                       |   |  |

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Project

# ELECTRICAL SYMBOLS

![](_page_47_Figure_0.jpeg)

# <u>GENERAL NOTES:</u>

- A. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO EXCAVATION. ANY DAMAGE TO UTILITIES SHALL BE REPAIRED AT CONTRACTORS EXPENSE
- B. COORDINATE WITH EACH LOCAL UTILITY COMPANY FOR CONNECTION OF NEW LINES AND METERS. PAY COSTS IF ANY.
- C. ALL UTILITIES ROUTED UNDERGROUND MAY REQUIRE SAW CUTTING EXISTING PAVEMENTS AND ROAD. PATCH ALL PAVEMENTS AND ROAD TO MATCH EXISTING.

C R O M W E L L 1300 East 6th StreetLittle Rock, AR 72202501.372.2900cromwell.com Project AEROJET New Guard Post - 2 Design Phase CONSTRUCTION DOCUMENTS Revisions No. Date Description Stamp

CROMWELL ARCHITECTS/ ENGINEERS #5 γATE ARKANSAS \* 🕭 🎋 ENGINEER \* \* \* No. 22761 07-17-2024 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 — 2024-052 Issue Date – 07-17-2024 Sheet Title – ELECTRICAL SITE PLAN Sheet Number – **ES101** 

![](_page_48_Figure_0.jpeg)

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

# **KEYED NOTES:**

 $\langle 1 \rangle$ PROVIDE 4/0 BARE COPPER COUNTERPOISE AROUND PERIMETER OF BUILDING. LOCATE COUNTERPOISE 3'-0" MINIMUM AWAY FROM THE BUILDING PERIMETER. THE COUNTER POISE IS INSTALLED 3'-0" UNDERGROUND.

LIGHTNING PROTECTION DESIGN IS TO SHOW INTENT ONLY, Α. CONTRACTOR SHALL ENGAGE A THIRD PARTY LIGHTNING PROTECTION DESIGNER / ENGINEER WHOSE SOLE PURPOSE IS DESIGNING AND CERTIFYING LIGHTNING PROTECTION SYSTEMS TO PROVIDE A COMPLETE SYSTEM WITH UL MASTER LABEL.

Β.

- C.
- D. MAXIMUM.
- E.
- G.

- J.

Κ.

L.

- М. SURFACE.
- Ν. APPLICABLE.

![](_page_48_Picture_19.jpeg)

# **GENERAL NOTES:**

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 EXCEED SPACING OF 25'-0".

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 DEGREES.

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

BOND TO WATER SERVICE AND OTHER PIPING SYSTEMS AS REQUIRED BY CODE(S).

F. INTERCONNECT LIGHTNING PROTECTION GROUND WITH OTHER BUILDING GROUND SYSTEMS AS REQUIRED BY CODE(S).

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.

H. ACTUAL JOBSITE CONDITIONS MAY ALTER SOME AIR TERMINAL AND GROUNDING LOCATIONS.

INSTALL GROUND ELECTRODES AS SHOWN AND AS REQUIRED BY CODE(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 LEAST 10'-0".

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 ACTUAL CONDITIONS.

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

PROTECT DOWN CONDUCTORS IN CONDUIT, ENTIRE VERTICAL ROUTING ON EXTERIOR OF BUILDING. PAINT TO MATCH ADJACENT

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

# LIGHTNING PROTECTION LEGEND:

— - - — SURFACE MOUNTED LIGHTNING PROTECTION MAIN CONDUCTOR **AIR TERMINAL** 

DOWN CONDUCTOR

GROUND ROD

![](_page_48_Picture_38.jpeg)

![](_page_49_Figure_0.jpeg)

# **GENERAL NOTES:**

- MOUNT TYPE VA LIGHT FIXTURE 7'-0" ABOVE FINISHED FLOOR. Α.
- TYPE C1 LIGHTS SHALL BE SURFACE MOUNTED ON CANOPY. Β.
- ALL EXIT LIGHTS SHALL BE POWERED FROM UNSWITCHED LIGHTING CIRCUIT INDICATED. C.
- MOUNT ALL EXIT LIGHTS 1' ABOVE DOOR JAMB. D.

![](_page_49_Picture_7.jpeg)

- $\langle 1 \rangle$  $\langle 2 \rangle$
- $\langle 3 \rangle$
- $\langle 4 \rangle$ CONTINUATION.

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

# KEYED NOTES:

JUNCTION BOX POWERS SIGN LIGHTING, PROVIDED 30A, 240V 2POLE DISCONNECT . COORDINATE WITH INSTALLER FOR EXACT LOCATION .

PARTIAL CIRCUIT SEE DETAIL 2 FOR CONTINUATION TO LIGHTS POWERING WALL PACKS. ALL EXTERIOR LIGHTS SHALL BE ROUTED VIA LIGHTING CONTACTOR, REFER TO E501 DETAIL 1.

POWER EXTERIOR LIGHTING THROUGH LIGHTING CONTACTOR REFER TO E-501 DETAIL 1.

PARTIAL CIRCUIT REFER TO DETAIL 1 KEYNOTE 2 ON THIS SHEET FOR

![](_page_49_Picture_18.jpeg)

![](_page_50_Figure_0.jpeg)

# GENERAL NOTES:

# **KEYED NOTES:**

DISCONNECT POWERS MECHANICAL EQUIPMENT COORDINATE EXACT LOCATION WITH INSTALLER. OUTDOOR UNIT POWERS INDOOR UNIT.

MANUAL MOTOR STARTER POWERS EF-1, COORDINATE EXACT LOCATION WITH INSTALLER.

240V,2POLE,30AMP DISCONNECT SWITCH TO POWER WATER HEATER, MOUNT DISCONNECT ABOVE CEILING. COORDINATE EXACT LOCATION OF WH-1 WITH INSTALLER, MAKE FINAL CONNECTIONS TO WATER HEATER.

JUNCTION BOX POWERS GATE, COORDINATE EXACT LOCATION WITH INSTALLER.

PROVIDE 12V, GROUP 35AGM 650CCA BATTERY, OTHER MANUFACTURER APPROVED SUBSTITUTES ARE ACCEPTABLE.

PROVIDE GENERATOR PAD APPROVED BY MANUFACTURER.

ROUTE CONDUCTORS UNDERGROUND TO UTILITY POLE, PROVIDE ALL NECESSARY ACCESSORIES REQUIRED FOR SERVICE.

240V, 3POLE, 30A NEMA 3R DISCONNECT POWERS SLIDING GATE, COORDINATE EXACT LOCATION WITH INSTALLER.

JUNCTION BOX POWERS CAMERA POWER SUPPLY COORDINATE LOCATION WITH INSTALLER.

JUNCTION POWERS DOOR POWER SUPPLY. COORDINATE EXACT LOCATION WITH INSTALLER.

RECEPTACLE POWERS WATER COOLER, COORDINATE EXACT LOCATION WITH INSTALLER.

JUNCTION BOX POWERS AIR CURTAIN INTEGRAL DISCONNECT. COORDINATE WITH AIR CURTAIN INSTALLER ON EXACT LOCATION.

PROVIDE SERVICE ENTRANCE RATED ATS DISTRIBUTION PANELBOARD COMBO, BASIS OF DESIGN MANUFACTURER IS GENERAC MODEL; G007228, 250V,200AMP WITH 16 BREAKER SPACE. PROVIDE COMPATIBLE BREAKERS FOR LOADS INDICATED. INSTALL SPD AT PANEL.

RECEPTACLE POWERS WATER SOFTENER, COORDINATE WITH INSTALLER ON CONNECTION TYPE REQUIRED, WHERE WATER SOFTENER REQUIRES HARD WIRING PROVIDE JUNCTION BOX IN LIEU OF RECEPTACLE.

PROVIDE UNDERGROUND POWER AND COMMUNICATIONS CONDUCTORS FROM GENERATOR TO ATS. REFER TO SINGLE LINE DIAGRAM FOR CONDUCTOR SIZING. CONDUCTORS SHALL BE BURIED 3'-0" BELOW FINISHED GRADE.

A 240V,200AMP, NEMA 3R ENTRANCE RATED TRANSFER, OPEN TRANSITION TRANSFER SWITCH. BASIS OF DESIGN MANUFACTURER IS GENERAC MODEL G007210-10(24KW)

![](_page_50_Picture_21.jpeg)

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![](_page_50_Picture_25.jpeg)

![](_page_51_Figure_0.jpeg)

# <u>GENERAL NOTES:</u>

KEYED NOTES:

 $\langle 1 \rangle$  $\langle 2 \rangle$  $\langle 3 \rangle$  $\langle 4 \rangle$ 

LOCATION WITH OWNER.

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A. ALL LOW VOLTAGE CABLING SHALL BE INSTALLED IN CONDUIT. ROUTE CONDUIT TO UTILITY ROOM.

B. ALL SECURITY CABLING SHALL BE ROUTED TO UTILITY ROOM OR AS DIRECTED BY SECURITY VENDOR.

C. PROVIDE 24 PORT PATCH PANEL AND TERMINATE CAT 6 DATA CABLES TO THIS PATCH PANEL. LOCATE PATCH PANEL BELOW FIBER OPTIC PATCH PANEL.

D. PROVIDE A 1500KVA RACK MOUNT UPS TO POWER EQUIPMENT LOCATED IN THE RACK.

ROUTE UNDERGROUND CONDUIT TO FIBER LOCATION NEAR BUILDING, EXTEND FIBER TO A 24 PORT PATCH PANEL.

PROVIDE A 24 PORT FIBER AND COPPER PATCH PANEL IN A WALL MOUNTED RACK.

PROVIDE DATA COMMUNICATIONS JUNCTION BOX. PROVIDE 1" CONDUIT ROUTED TO GUARD POST BUILDING. COORIDINATE EXACT LOCATION WITH SECURITY INSTALLER.

JUNCTION BOX IS FOR ROLLING GATE COMMUNICATION CABLES. ROUTE A 1.25" CONDUIT TO GATE CONTROL LOCATION. COORDINATE CONTROL

| AEROJET<br>New Guard<br>Post - 2  |                          |
|---|--------------------------|
| Design Phase<br>CONSTRUCTION<br>DOCUMENTS<br>Revisions<br>No. Date Description<br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br>_ |                          |
|   |                          |
|   |                          |
| CROMWELL<br>ARCHITECTS/<br>ENGINEERS<br>#5<br>#5<br>#5<br>#5<br>#5<br>#5<br>#5<br>#5<br>#5<br>#5<br>#5<br>#5<br>#5  | 024                      |
| <ol> <li>CROMWELL ARCHITECTS ENGINEERS,<br/>ALL RIGHTS RESERVED</li> <li>THIS SHEET DESIGNED FOR COLOR PRI<br/>CRITICAL INFORMATION MAY BE LOST<br/>BLACK AND WHITE PRINTING.</li> </ol>  | INC.<br>NTING.<br>I WITH |
| Project Number         2024           Issue Date  | ·052                     |
| Sheet Title 07-17-2   | 2024                     |
| SYSTEMS PLAN  |                          |
| Sheet Number  |                          |

![](_page_52_Figure_0.jpeg)

![](_page_52_Figure_1.jpeg)

![](_page_52_Figure_3.jpeg)

![](_page_52_Figure_4.jpeg)

| /<br>N<br>r                            | <pre></pre>  | OJET<br>Guard                                |
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|  | CERT         | CROMWELL<br>ARCHITECTS/<br>ENGINEERS         |
|  |              | #5<br>TANSAS-ENGINI                          |
|  | <i></i>      | STATEOR                                      |
|  | AN W. M      | ARKANSAS<br>REGISTERED ACL<br>PROPESSIONAL   |
|  | MUNN 1       | No. 22761                                    |
|  |              | <u>581095</u><br>07-17-2024                  |
| Notes                                  |              | RCHITECTS ENGINEERS. INC.                    |
| A<br>2. Th                             | LL RIGHTS RE | SERVED                                       |
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| C<br>BI<br>Project<br>Issue<br>Sheet   | Title ——     |  |
| C<br>BI<br>Project<br>Issue I<br>Sheet | Title        | RICAL DETAILS                                |

- GRADE - BACKFILL

1" RIGID STEEL
 CONDUIT

|        | LIGHTING FIXTURE SCHEDULE |                                  |         |        |                      |                         |  |                |  |  |  |  |
|--------|---------------------------|----------------------------------|---------|--------|----------------------|-------------------------|--|----------------|--|--|--|--|
| TYPE   | MANUFACTURER              | CATALOG NUMBER                   | VOLTAGE | SOURCE | TOTAL FIXTURE LUMENS | MAXIMUM FIXTURE WATTAGE | DESCRIPTION                            | KEYED<br>NOTES |  |  |  |  |
| A1     | COOPER LIGHTING           | 22CGTX-45-L835                   | UNV     | LED    | 4500                 | 36                      | 2X2 RECESSED LED PANEL                 |                |  |  |  |  |
| A1E    | COOPER LIGHTING           | 22CGTX-45-EL7W-L835              | UNV     | LED    | 4500                 | 36                      | 2X2 RECESSED LED PANEL                 |                |  |  |  |  |
| C1     | COOPER LIGHTING           | TT-D8-740-U-WQ-NW                | UNV     | LED    | 18000                | 153                     | CANOPY LED LIGHTS                      |                |  |  |  |  |
| VA     | COOPER LIGHTING           | 4AWS-L3C39-CA-UNV                | UNV     | LED    | 4000                 | 32                      | VANITY FIXTURE                         |                |  |  |  |  |
| P1     | BEACON LIGHTING           | (1) VP-4-720L-565-4K7-4W-UNV-DBT | UNV     | LED    | 75000                | 565                     | PARKING LOT LIGHTING                   |                |  |  |  |  |
| P2     | BEACON LIGHTING           | (2) VP-4-720L-565-4K7-4W-UNV-DBT | UNV     | LED    | 75000 PER HEAD       | 565 PER HEAD            | PARKING LOT LIGHTING                   |                |  |  |  |  |
| P-POLE | BEACON LIGHTING           | RSS-B-30-60-C-XX-DBT             | -       | -      | -                    | -                       | 30'-0" SQUARE POLE                     | 3              |  |  |  |  |
| W1     | COOPER LIGHTING           | PRV-P-PA1B-740-U-T4W-WM-BK       | UNV     | LED    | 4000                 | 59                      | EXTERIOR WALL PACK                     |                |  |  |  |  |
| W1E    | COOPER LIGHTING           | PRV-P-PA1B-740-U-T4W-WM-BK-CBP   | UNV     | LED    | 4000                 | 59                      | EXTERIOR WALL PACK                     | 1              |  |  |  |  |
| Х      | COOPER LIGHTING           | EDG-1-R-EL                       | 120/277 | LED    | N/A                  | 3.1                     | EXIT LIGHT, ARROWS AND FACES PER PLANS | 1              |  |  |  |  |

LIGHTING FIXTURE SCHEDULE GENERAL NOTES:

1. PROVIDE FLANGE KIT AS REQUIRED

LIGHTING FIXTURE SCHEDULE KEYED NOTES:

1. 90 MIN BATTERY BACK UP.

2. CHAIN MOUNT AT 9'-0" AFF UNLESS NOTED OTHERWISE

3. PROVIDE 2 LOCATION ARMS FOR TYPE P2 LIGHTS AND SINGLE LOCATION ARM FOR TYPE P1 LIGHT

## **GENERAL NOTES:**

COORDINATE ALL LIGHT FIXTURE AND POLE FINISHES WITH Α. OWNER.

| 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

MISCELLANEOUS 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 | ATSP   |       | MOUNTING              | SURFA | CE   | LC     | CATION | М   | E |
|-------------|-----------------|-------|--|-------|-----------------------|-------|------|--------|--------|-----|---|
|             | MAIN CB         |       | В  | POLES | FRAME                 | 100   | TRIP | _      |        |     |   |
|             | VOLTAGE 120/240 |       | /240   | PHASE |                       |       | IMUM | 11     |        |     |   |
| ACCESSORIES |                 | ORIES | SN + EQP GND + SPD *PREWIRED GENERAC ATS DISTRIBUTIO |       |                       |       |      |        |        |     |   |
| DEVICE      |                 |       | BRANCH CIRCUIT                                       |       |                       | PHASE |      |        |        |     |   |
|             | AMPS            | POLES | TYPE   |       |                       | VOLT  | NO   | VOLT / | AMPS   | NO  |   |
|             | TRIP            |       |  | LOAD  | DESCRIPTION           | AMPS  | NO   | A      | В      |     |   |
|             | 20              | 1     |  | М     | BARRIER GATE OPERATOR | 1242  | 1    | 2162   |        | 2   |   |
|             | 15              |       |  | М     | WATER HEATER          | 1800  | 3    |        | 2720   | 4   |   |
|             | -               |       |  | М     | -                     | 1800  | 5    | 2340   |        | 6   |   |
|             | 20              | 1     |  |       | SPARE                 |       | 7    |        | 918    | 8   |   |
|             | 20              | 2     |  | Н     | MSFC-1                | 1435  | 9    | 2401   |        | 10  |   |
|             | -               |       |  | H     | -                     | 1435  | 11   |        | 1687   | 12  |   |
|             | 20              | 1     |  | L     | PARKING LOT LIGHTING  | 1150  | 13   | 4840   |        | 14  |   |
|             | 20              | 1     |  | L     | PARKING LOT LIGHTING  | 1150  | 15   |        | 3510   | 16  |   |
|             |                 |       |  |       |                       |       | 17   |        |        | 18  |   |
|             |                 |       |  |       |                       |       | 19   |        |        | 20  |   |
|             |                 |       |  |       |                       |       | 21   |        |        | 22  |   |
|             |                 |       |  |       |                       |       | 23   |        |        | _24 |   |
|             |                 |       |  |       |                       |       | 25   |        |        | 26  |   |
|             |                 |       |  |       |                       |       | 27   |        |        | 28  |   |
|             |                 |       |  |       |                       |       | 29   |        |        | 30  |   |
|             |                 |       |  |       |                       |       | 31   |        |        | 32  |   |
|             |                 |       |  |       |                       |       | 33   |        |        | 34  |   |
|             |                 |       |  |       |                       |       | 35   |        |        | 36  |   |
|             |                 |       |  |       |                       |       | 37   |        |        | 38  | L |
|             |                 |       |  |       |                       |       | 39   |        |        | 40  | Ļ |
|             |                 |       |  |       |                       |       | 41   |        |        | 42  |   |
|             |                 |       |  |       |                       | TOTAL |      | 11743  | 8835   |     |   |
|             |                 |       |  |       |                       |       |      |        |        | i   |   |

| PANEL LP1      |       | 71    | MOUNTING                          | LC                     | OCATION | UTI   | LI   |      |    |  |
|----------------|-------|-------|-----------------------------------|------------------------|---------|-------|------|------|----|--|
| MAIN CB        |       | В     | POLES 2                           |                        |         | FRAME | 80   | TRIP |    |  |
| VOLTAGE 120/24 |       | /240  | PHASE                             | 1                      |         |       | MIN  | IMUM | IE |  |
|                | A     | CCESS | ORIES                             | SN + EQP GND           |         |       |      |      |    |  |
| DEVICE         |       |       |                                   | BRANCH CIRCUIT         | PHASE   |       |      |      |    |  |
| AMPS           |       | TVDE  |                                   |                        | VOLT    |       | VOLT | AMPS |    |  |
| TRIP           | FULLS |       | TYPE LOAD DESCRIPTION AMPS NO A B |                        | NO      |       |      |      |    |  |
| 20             | 1     |       | R                                 | RECEPTS OFFICE         | 720     | 1     | 1520 |      | 2  |  |
| 20             | 1     |       | R                                 | RECEPTS OFFICE         | 720     | 3     |      | 1080 | 4  |  |
| 20             | 1     |       | R                                 | VISITOR BADGE UP RECPT | 360     | 5     | 960  |      | 6  |  |
| 20             | 1     |       |                                   | SPARE                  |         | 7     |      | 500  | 8  |  |
| 20             | 1     | G     | R                                 | RCPS RM103, AC & EF-1  | 710     | 9     | 1210 |      | 10 |  |
| 20             | 1     | G     | R                                 | WATER SOFTNER MECH     | 180     | 11    |      | 1680 | 12 |  |
| 20             | 1     |       |                                   | SPARE                  |         | 13    |      |      | 14 |  |
| 20             | 1     |       |                                   | SPARE                  |         | 15    |      |      | 16 |  |
| 20             | 1     |       |                                   | SPARE                  |         | 17    |      |      | 18 |  |
| 20             | 1     |       |                                   | SPARE                  |         | 19    |      |      | 20 |  |
| 20             | 1     |       |                                   | SPARE                  |         | 21    |      |      | 22 |  |
| 20             | 1     |       |                                   | SPARE                  |         | 23    |      |      | 24 |  |
|                |       |       |                                   |                        |         | 25    |      |      | 26 |  |
|                |       |       |                                   |                        |         | 27    |      |      | 28 |  |
|                |       |       |                                   |                        |         | 29    |      |      | 30 |  |
|                |       |       |                                   |                        |         | 31    |      |      | 32 |  |
|                |       |       |                                   |                        |         | 33    |      |      | 34 |  |
|                |       |       |                                   |                        |         | 35    |      |      | 36 |  |
|                |       |       |                                   |                        |         | 37    |      |      | 38 |  |
|                |       |       |                                   |                        |         | 39    |      |      | 40 |  |
|                |       |       |                                   |                        |         | 41    |      |      | 42 |  |
|                |       |       |                                   |                        | TOTAL   |       | 3690 | 3260 |    |  |
|                |       |       |                                   |                        |         |       |      |      |    |  |

|               |                                 |           |              |                  |               | E1                | C R                                      | OMWELL   |
|---------------|---------------------------------|-----------|--------------|------------------|---------------|-------------------|--|--|
| ECH RM<br>100 | MAIN BUS RATING                 | 2(        | 00           | AMPS             |               | 1300 E<br>501.37  | ast 6th St<br>2.2900                     | reet Little Rock, AR 72202<br>cromwell.com                                 |
| BREAKE        | R INTERRUPTING CAPACITY         | 10        | KA           | -                |               |                   |  |  |
|               | BRANCH CIRCUIT                  |           |              | DEVICE           |               | Proje             | ct                                       |  |
| AMPS          | DESCRIPTION                     | LOAD      | TYPE         | POLES            | TRIP          |                   |  |  |
| 920           | ROLLING GATE                    | M         |              | 2                | 20            | $A$               | <b>\E</b> R                              | OJET   |
| 920<br>540    | -<br>EXT RECEPTS                | R         |              | 1                | - 20          |                   |  |  |
| 918           | CANOPY LIGHTING & SIGN          | L         |              | 1                | 20            |                   | <b>Iew</b>                               | Guard  |
| 252           | INTERIOR LIGHTS                 | L         |              | 1                | 20            |                   | Dact                                     | 2  |
| 3690          | LP1                             | М         |              | 2                | 80            |                   | 031                                      | - Z  |
| 2300          |                                 |           |              | -                | -             |                   |  |  |
|               |                                 |           |              |                  |               |                   |  |  |
| 21            | KVA (CONNECTED)                 | 86        | AMPS         | (CONNI           | ECTED)        |                   |  |  |
| 18            | KVA (DEMAND)                    | 76        | AMPS         | (DEMAI           | ND)           | Desigr            | n Phase —                                |  |
|               |                                 |           |              |                  |               |                   | CON<br>DO                                | STRUCTION<br>CUMENTS   |
| LITY RM       | MAIN BUS RATING                 | 1(        | 00           | AMPS             |               |                   | ons                                      | Description  |
| 80<br>BREAKE  | R INTERRUPTING CAPACITY         | 10        | KA           | -                |               |                   | Dale                                     |  |
|               | BRANCH CIRCUIT                  |           |              | DEVICE           | <u> </u>      |                   |  |  |
| VOLT          |                                 |           | TYPE         | POLES            | AMPS          |                   |  |  |
| AIMPS<br>800  | FRIDGE OFFICE 100               | LOAD<br>M | G            | 1                | 20            |                   |  |  |
| 360           | RECEPTS COUNTER RM 100          | R         | G            | 1                | 20            |                   |  |  |
| 600<br>500    | WATER COOLER                    | M         | G            | 1                | 20            |                   |  |  |
| 500           | DOOR POWER SUPPLY               | M         |              | 1                | 20            |                   |  |  |
| 1500          | SERVER RACK                     | М         |              | 1                | 20            |                   |  |  |
|               | SPARE                           |           |              | 1                | 20            | Stamp             | )  |  |
|               | SPARE                           |           |              | 1                | 20            |                   |  |  |
|               | SPARE<br>SPARE                  |           |              | 1                | 20            |                   |  | E OF AUTRO   |
|               | SPARE                           |           |              | 1                | 20            |                   |  | ARCHITECTS/  |
|               |                                 |           |              |                  |               |                   |  | ENGINEERS 4<br>#5<br>WSAS-ENGIN  |
|               |                                 |           |              |                  |               |                   |  | ······   |
|               |                                 |           |              |                  |               |                   | A A A A A A A A A A A A A A A A A A A    | ARKANSAS   |
|               |                                 |           |              |                  |               |                   | Abury                                    | PROFESSIONAL<br>ENGINEER   |
| 7<br>7        | KVA (CONNECTED)<br>KVA (DEMAND) | 29<br>29  | AMPS<br>AMPS | (CONNI<br>(DEMAI | ECTED)<br>ND) |                   | P  | No. 22761<br><u>P</u> IOGE<br>07-17-2024                                   |
|               |                                 |           |              |                  |               | Notes             |  |  |
|               |                                 |           |              |                  |               |                   | L RIGHTS RE                              | SERVED   |
|               |                                 |           |              |                  |               | 2. TH<br>CI<br>BL | IS SHEET DE<br>RITICAL INFO<br>ACK AND V | SIGNED FOR COLOR PRINTING.<br>DRMATION MAY BE LOST WITH<br>WHITE PRINTING. |
|               |                                 |           |              |                  |               | Projec            | t Number                                 | 2024-052   |
|               |                                 |           |              |                  |               | Issue [           | Date ——                                  | 07-17-2024   |
|               |                                 |           |              |                  |               | Sheet             | EL<br>SC                                 | ECTRICAL<br>HEDULES  |
|               |                                 |           |              |                  |               | sneet             |  | -601   |