# PLANT OPERATIONS **DISTRICT OFFICE EXPANSION PHASE 2 CLOVIS UNIFIED SCHOOL DISTRICT** SOUTHEAST CORNER OF NORTH FOWLER AVENUE AND HERNDON AVENUE, CLOVIS, CA



# **GENERAL NOTES**

- 1. A COPY TITLE 24 C.C.R. PARTS 1 AND 2 SHALL BE KEPT ON THE JOB SITE AT ALL TIMES.
- 2. CHANGES TO THE STRUCTURAL, ACCESSIBILITY OR FIRE AND LIFE-SAFETY PORTIONS OF THE APPROVED PLANS AND SPECIFICATIONS AFTER THE WORK HAS BEEN LET SHALL BE MADE BY A CONSTRUCTION CHANGE DOCUMENT (CCD) AS REQUIRED IN SECTION 4-338, PART I, CAC, AND SHALL BE SUBMITTED TO, AND APPROVED BY AHJ PRIOR TO COMMENCEMENT OF THE WORK. CONSTRUCTION CHANGE DOCUMENTS SHALL BE PREPARED AND SUBMITTED TO AHJ IN COMPLIANCE WITH AHJ INTERPRETATION OF REGULATION IR A-6.
- 3. ALL TESTS TO CONFORM TO THE REQUIREMENTS OF TITLE 24 SECTION 4-335, PART 1, AND APPROVED T & I SHEET.
- 4. TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH TITLE 24 SECTION 4-335, PART I, AND THE DISTRICT SHALL EMPLOY AND PAY THE LABORATORY. COSTS OF RETEST MAY BE BACK CHARGED TO THE CONTRACTOR.
- 5. AHJ SHALL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE CONCRETE PER TITLE 24 SECTION 4-331, PART I.
- 6. A CLASS 2 INSPECTOR REQUIRED FOR THIS PROJECT SHALL BE EMPLOYED BY OWNER AND APPROVED BY ARCHITECT, STRUCTURAL ENGINEER, AND AHJ. INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4-333(c). THE DUTY OF THE INSPECTOR SHALL BE IN ACCORDANCE WITH TITLE 24 SECTION 4-342, PART

7. SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH TITLE 24 SECTION 4-334, PART 1.

- 8. CONTRACTOR, INSPECTOR, ARCHITECT, AND ENGINEERS SHALL SUBMIT VERIFIED REPORTS (FORM SSS-6) IN ACCORDANCE WITH TITLE 24 SECTION 4-336, PART I.
- 9. THE ARCHITECT AND THE STRUCTURAL ENGINEER SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH TITLE 24 SECTION 4-333(a) AND 4-341, PART I.
- 10. THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH TITLE 24 SECTION 4-343, PART I.
- 11. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE SCHOOL BUILDING IN ACCORDANCE WITH TITLE 24 C.C.R. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH SAID TITLE 24, C.C.R., A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY AHJ BEFORE PROCEEDING WITH THE WORK.
- 12. SUBSTITUTIONS AND REQUESTS FOR INFORMATION AFFECTING STRUCTURAL SAFETY, FIRE AND LIFE SAFETY OR ACCESS COMPLIANCE SHALL BE APPROVED BY DSA PRIOR TO FABRICATION OR USE.
- 13. ADDENDA MUST BE SIGNED BY ARCHITECT AND APPROVED BY AHJ

**CIVIL ENGINEER** 

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# **PROJECT INFORMATION**

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> MECHANICAL/PLUMBING ENGINEER TETER, LLP 7535 N. PALM AVE., SUITE 201 FRESNO, CA 93711 (559) 437-0887 CONTACT: STEVEN JONES E-MAIL: steven.jones@teterae.com

### **ELECTRICAL ENGINEER** TETER, LLP 7535 N. PALM AVE., SUITE 201 FRESNO, CA 93711 (559) 437-0887 CONTACT: BRYAN GLASS

# **PROJECT DIRECTORY**

CONTACT: NICK MELE

- 14. NO CHANGES OR REVISIONS SHALL BE MADE FOLLOWING WRITTEN APPROVAL WHICH AFFECTS ACCESS COMPLIANCE ITEMS UNLESS SUCH CHANGES OR REVISIONS ARE SUBMITTED TO THE AHJ FOR APPROVAL.
- 15. SUBSTITUTIONS AFFECTING AHJ REGULATED ITEMS SHALL BE SUBMITTED AS A CONSTRUCTION CHANGE DOCUMENT OR ADDENDA, AND SHALL BE APPROVED BY AHJ PRIOR TO FABRICATION AND INSTALLATION. 16. CONSTRUCTION CHANGE DOCUMENTS MUST BE SIGNED BY THE FOLLOWING:
- ARCHITECT OR ENGINEER OF RECORD STRUCTURAL ENGINEER (WHEN APPLICABLE) DELEGATED PROFESSIONAL ENGINEER
- 17. MATERIALS AND THEIR INSTALLATION SHALL COMPLY WITH APPLICABLE CODES. STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
- 18. THESE PLANS AND SPECIFICATIONS WILL COMPLY WITH CFC CHAPTER 33 FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION. 19. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL
- COMPLY WITH ALL LOCAL ORDINANCES. 20. AHJ IS NOT SUBJECT TO ARBITRATION.

### LANDSCAPE ARCHITECT DAVID BIGLER ASSOCIATES 516 W. SHAW AVE., SUITE 101 **FRESNO, CA, 93704**

(559) 276-9495 CONTACT: DAVID BIGLER

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- E-MAIL: bryan.glass@teterae.com

# GENERAL

- PROJECT ADDRESS: SOUTHEAST CORNER OF HERNDON AVENUE AND NORTH FOWLER AVENUE, CLOVIS, CA. ASSESSORS PARCEL NO.: 491-050-74T, 550-020-47T, 550-020-45T ZONE: R-1 & R-A, C-2 PARCEL SIZE: 16.38 ACRES
- PROPOSED USE: GENERAL COMMERCIAL SIGNAGE:
- GOVERNING AGENCY: CITY OF CLOVIS EXISTING USE: VACANT LAND STORM WATER DISPOSAL: FRESNO FLOOD CONTROL DISTRICT WATER SYSTEM: CITY OF CLOVIS SEWER DISPOSAL: CITY OF CLOVIS

# **PROJECT DESCRIPTION** AS PART OF AN OVERALL DISTRICT OFFICE MASTER PLANNED SITE, THIS

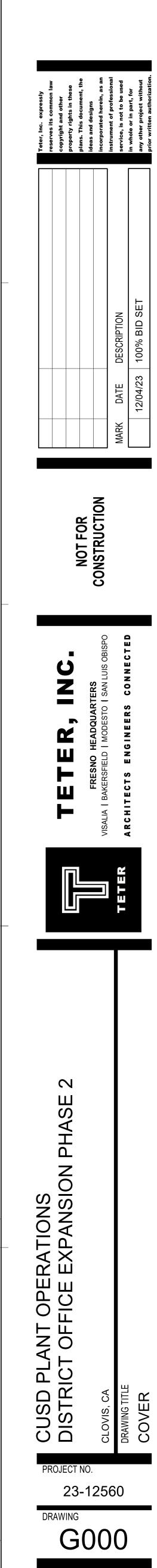
- PROJECT CONSIST OF 'PHASE TWO' OF A MULTI-PHASED CLOVIS UNIFIED SCHOOL DISTRICT OFFICE DEVELOPMENT, PHASE TWO WILL CONSIST OF (4) BUILDINGS AND SITE INFRASTRUCTURE REQUIRED FOR ADMINISTRATION OFFIC BUILDING AND SHOP BUILDINGS.
- THE PROJECT SCOPE INCLUDES NECESSARY SITE WORK IMPROVEMENTS OF APPROXIMATELY 5.08 ACRES AND SUPPORTING UTILITY INFRASTRUCTURE FOR THE CONSTRUCTION OF THE NEW BUILDINGS. THE OFFICE BUILDING WILL CONSIST OF TWO-STORY, TYPE V-B, PRE-MANUFACTURED METAL BUILDING OF APPROXIMALTY 12.890 S.F. THE SHOP BUILDINGS WILL CONSIST OF ONE-STORY, TYPE V-B, PRE-MANUFACTURED METAL BUILDINGS WITH THE FOLLOWING APPROXIMATE SQUARE FOOTAGES: BUILDING B: 2,092 S.F. BUILDING C: 9,337 S.F. BUILDING D: 13,921 S.F.

# **GOVERNING CODES**

- 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), C.C.R. TITLE 24, PART 1 2022 CALIFORNIA BUILDING CODE (CBC), C.C.R. TITLE 24, PART 2 2022 CALIFORNIA ELECTRICAL CODE (CEC), C.C.R. TITLE 24, PART 3 2022 CALIFORNIA MECHANICAL CODE (CMC), C.C.R. TITLE 24, PART 4 2022 CALIFORNIA PLUMBING CODE (CPC). C.C.R. TITLE 24. PART 5 2022 CALIFORNIA FIRE CODE (CFC), C.C.R. TITLE 24, PART 9 2022 CALIFORNIA REFERENCED STANDARDS CODE, C.C.R. TITLE 24, PART 12 2022 CALIFORNIA ENERGY CODE (CAC), C.C.R. TITLE 24, PART 6 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), C.C.R. TITLE 24. PART 11 C.C.R., TITLE 19 PUBLIC SAFETY NFPA 13-16 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (AS AMENDED) NFPA 24-16 INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (AS AMENDED) NFPA 25-13CA (CALIFORNIA NFPA 25 EDITION) INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS NFPA 72-16 NATIONAL FIRE ALARM AND SIGNALING CODE (AS AMENDED) UL 38-99 MANUALLY ACTUATED SIGNALING BOXES (AS AMENDED) UL 268-09 SMOKE DETECTORS FOR FIRE ALARM SYSTEMS UL 268A-09 SMOKE DETECTORS FOR DUCT APPLICATION (AS AMENDED)
- UL 464-03 AUDIBLE SIGNAL APPLIANCES (AS AMENDED) UL 521-99 HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS (AS AMENDED) UL 1424 CABLES FOR POWER-LIMITED FIRE-ALARM CIRCUITS (2005 EDITION) UL 1971 SIGNALING DEVICES FOR THE HEARING IMPAIRED (2004 EDITION) AMERICANS WITH DISABILITIES ACT

# PROJECT INFORMATION

|   | STATEMENT OF GENERAL CONFORMANCE   |                 |  |
|---|--|-----------------|--|
|   | FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SI<br>DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR<br>CONSULTANTS.  | HOP             |  |
|   | APPLICATION NO:FILE NO:  | ALLUVIAL AVE.   |  |
|   | THE DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET  |                 |  |
|   | HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR<br>CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE<br>SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:   |                 |  |
|   | 1. DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS<br>OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT<br>SPECIFICATIONS PREPARED BY ME, AND   | HERNDON AVE.    | AVE. OUG   |
|   | 2. COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE<br>FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.   | 168 SIERRA AVE. | CRU:<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102 |
|   | THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEN<br>ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138<br>THE EDUCATION CODE AND SECTIONS 4-336,<br>4-341, AND 4-344" OF TITLE 24, PART I. |                 | Z  |
|   | I CERTIFY THAT:  |                 |  |
|   | ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX  |                 |  |
|   | IS/ARE IN GENERAL CONFORMANCE AND HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS  |                 | N  |
|   |  | AREA MAP        | N.T.S  |
|   |  |                 |  |
|   | ARCHITECT'S SIGNATURE DATE<br>XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX   | E HERNDON AVE.  | FUTUR<br>PHASE   |
|   |  |                 |  |
|   |  |                 | r  |
|   |  |                 |  |
|   | ARCHITECT'S STATEMENT  |                 |  |
|   | INSTALLATION OF DEFERRED APPROVAL ITEMS SHALL NOT BE STARTED UNTIL THE   | 1.<br>Out.      | PHASE  |
| 1 | CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR TH<br>ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHIT   |                 |  |
| ( | OR STRUCTURAL ENGINEER AND APPROVED BY DSA. DEFERRED ITEMS ARE TO BE<br>COMPLETED PRIOR TO OCCUPANCY OF BUILDINGS. AFFECTED BY THE DEFERRED WORK   |                 |  |
|   | DEFERRED APPROVAL FOR THIS PROJECT ARE THE FOLLOWING ITEMS:<br>- CURTAIN WALL, STOREFRONT AND OPERABLE WINDOW SYSTEMS EXCEEDING SPA  | N               | _ /  |
|   | OF 10'-0" (SPECIFICATION DIVISION 08)<br>- PROVIDE THE PERFORMANCE (OUT OF PLANE DEFLECTION AND STORY DRIFT) AND   |                 |  |
|   | LOADING CRITERIA FOR SUCH WORK.<br>- FABRICATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BEGIN WITHOUT FIRST   | SITE /          |  |
|   | OBTAINING THE APPROVAL OF DEFERRED PORTIONS OF THE PLANS AND<br>SPECIFICATIONS BY AUTHORITY HAVING JURISDICTION.   |                 | ERD.   |
|   | - A CALIFORNIA LICENSED ARCHITECT OR CALIFORNIA REGISTERED ENGINEER STAM<br>AND SIGNS THE PLANS AND SPECIFICATIONS FOR THE DEFERRED SUBMITTAL ITEM.  |                 |  |
|   | THE ARCHITECT OR ENGINEER IN GENERAL RESPONSIBLE CHARGE OF THE DESIG<br>OF THE PROJECT SHALL SUBMIT THE PLANS AND SPECIFICATIONS FOR THE DEFERRI   |                 |  |
|   | SUBMITTAL ITEM TO AHJ, WITH NOTATION INDICATING THAT THE DEFERRED<br>SUBMITTAL DOCUMENTS HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE  |                 |  |
|   | WITH THE DESIGN OF THE BUILDING.   |                 | NO   |
|   | DEFERRED APPROVALS   | VICINITY MAP    | N.T.S  |





NORTH

N.T.S.

# ABBREVIATIONS

|                      | AND<br>ANGLE                           | FA<br>F.B.            | FIRE ALARM<br>FLAT BAR                         | OCC<br>O.C.            |
|----------------------|--|-----------------------|--|------------------------|
|                      | AT<br>CENTERLINE                       | F.B.O.                | FURNISHED BY<br>OWNER/OTHERS                   | O.D.                   |
|                      | DIAMETER OR ROUND<br>PERPENDICULAR     | F.D.<br>F.D.C.        | FLOOR DRAIN<br>FIRE DEPATMENT                  | OFF.<br>OFCI           |
| )                    | POUND OR NUMBER<br>EXISTING            | FDN.                  | CONNECTION<br>FOUNDATION                       | OFOI                   |
| )                    | NEW                                    | F.E.<br>F.E.C.        | FIRE EXTINGUISHER<br>FIRE EXTINGUSHER          | O.F.R.D.               |
|                      |  | F.F.                  | CABINET<br>FACTORY FINISH                      | O.H.                   |
| IV.<br>C             | ABOVE<br>AIR CONDITIONING              | F.FLR.<br>F.G.        | FINISH FLOOR<br>FINISH GRADE                   | O.H.C.D.               |
| P                    | ASPHALT CONCRETE<br>PAVING             | F.H.<br>FHMS          | FIRE HYDRANT<br>FLAT HEAD                      | O.H.M.S.               |
| ST.<br>C.T.          | ACOUSTICAL<br>ACOUSTIC CEILING TILE    | FHWS                  | MACHINE SCREW<br>FLAT HEAD WOOD SCREW          | O.H.W.S                |
| 3.                   | ANCHOR BOLT                            | FIN.                  | FINISH   | OPNG.<br>OPP.          |
| A                    | AMERICANS WITH<br>DISABILITIES ACT     | FIXT.<br>FLR.         | FIXTURE<br>FLOOR(ING)                          | O/<br>ORIG.            |
| AAG                  | ADA ACCESSIBLE<br>GUIDELINES           | FLASH.<br>FLUOR.      | FLASHING<br>FLUORESCENT                        | OVHD<br>OWJ            |
| DL.<br>J.            | ADDITIONAL<br>ADJUSTABLE               | F.O.<br>F.O.C.        | FACE OF<br>FACE OF CONCRETE                    | P.B.N.                 |
| JC.<br>F.F.          | ADJACENT<br>ABOVE FINISH FLOOR         | F.O.F.<br>F.O.M.      | FACE OF FINISH<br>FACE OF MASONRY              | P.E.N.                 |
| F.G.<br>6G.          | ABOVE FINISH GRADE<br>AGGREGATE        | F.O.S.<br>FRP         | FACE OF STUD<br>FIBERGLASS REIN-               | P.E.S.                 |
| T.<br>UM.            | ALTERNATE<br>ALUMINUM                  | F.S.                  | FORCED PANELING<br>FIRE SPRINKLER(S)           | P.I.V.                 |
| OD.<br>P.C.          | ANODIZED<br>ACOUSTIC PANEL CEILING     | F.S.H.                | FIRE SPRINKLER HEAD                            | P.LAM.                 |
| PROX.                | APPROXIMATE                            | FT.<br>FURR.          | FOOT/FEET<br>FURRING                           | P.L.<br>PL.            |
| CH.                  | ARCHITECT(URAL)<br>AUDIO VISUAL        | FUT.                  | FUTURE   | PLAS.                  |
|                      | AGDIO VICOAL                           | GA.                   | GAUGE  | PR.<br>PSF             |
| L.                   | BOARD<br>BELOW                         | GALV.<br>G.B.         | GALVANIZED<br>GRAB BAR                         | PSI                    |
| E.N                  | BOUNDARY EDGE NAILING                  | G.C.<br>GEN.          | GENERAL CONTR.<br>GENERAL                      | PT.                    |
| DG.<br>K.            | BUILDING<br>BLOCK                      | G.I.<br>GL.           | GALVANIZED IRON<br>GLASS                       | P.T.D.<br>P.T.D.F.     |
| KG.<br>1.            | BLOCKING<br>BEAM                       | GND.<br>GR.           | GROUND   | PTN.                   |
| 0T.<br>:G.           | BOTTOM<br>BEARING                      | GYP.                  | GYPSUM   | PTN.<br>PVC            |
| WN.<br>J.R.          | BETWEEN<br>BUILT-UP ROOF(ING)          |                       |  | R.<br>R                |
|                      |  | H.B.<br>HBD.          | HOSE BIBB<br>HARDBOARD                         | R.A.                   |
| G<br>B.              | CURB AND GUTTER<br>CABINET             | H.C.<br>HD.           | HOLLOW CORE<br>HEAD                            | R.D.<br>REFL.          |
| В.<br>М.             | CARRIAGE BOLT<br>CEMENT                | H.D.<br>HDR.          | HEAVY DUTY<br>HEADER                           | REFR.<br>REINF.        |
| R.<br>-              | CERAMIC<br>CUBIC FOOT                  | HDW.<br>HDWD.         | HARDWARE<br>HARDWOOD                           | REM.<br>REQD.          |
| J.                   | CAST IRON<br>CONSTRUCTION JOINT        | H.M.<br>H.M.D.        | HOLLOW METAL<br>HOLLOW METAL DOOR              | RESIL.<br>R.H.         |
| <br>F.               | CENTER LINE<br>CHAIN LINK FENCE        | H.M.F.                | HOLLOW METAL FRAME                             | R.H.W.S                |
| G.<br>O.             | CEILING<br>CLOSET                      | HORIZ.                | HORIZONTAL                                     | RM.<br>R.O.            |
| R.<br>.RM.           | CLEAR<br>CLASS ROOM                    | HR.<br>HT.            | HOUR<br>HEIGHT                                 | R.O.W.<br>RWD.         |
| 10                   | CONCRETE MASONRY UNIT                  | HVAC                  | HEATING/VENTIL-<br>ATING/AIR COND-             | RWL                    |
| R.<br>JL.            | COUNTER<br>COLUMN                      | HWY                   | ITIONING<br>HIGH WAY                           | S<br>S.A.              |
| NC.<br>NN.<br>NSTR.  | CONCRETE<br>CONNECTION<br>CONSTRUCTION |                       |  | S.C.<br>SCH.           |
| NT.<br>NTR.          | CONTINUOUS                             | I.D.                  | INSIDE DIAMETER/<br>DIMENSION                  | S.D.<br>SECT.          |
| PT.<br>RC            | CARPET<br>COLD ROLLED CHANNEL          | INFO<br>INSUL.        | INFORMATION<br>INSULATION                      | SF<br>SHR.             |
| R.                   | CENTER                                 | INT.                  | INTERIOR                                       | SHTG.<br>SIM.          |
| 'SK<br>Y.            | COUNTERSUNK                            | JAN.<br>JT.           | JANITOR<br>JOINT                               | S.M.<br>S.O.G.         |
|                      |  | KIT.                  | KITCHEN  | SPEC(S)<br>SPKR.       |
| 4.<br>6L.            | DISABLED ACCESS<br>DOUBLE              | K.O.<br>K.O.P.        | KNOCK OUT                                      | SQ.<br>S.S.            |
| MO                   | DEMOLISH/<br>DEMOLITION                |                       |  | STA.<br>STC            |
| =.                   | DRINKING FOUNTAIN<br>OR DOUGLAS FIR    | LAB.<br>LAM.          | LABORATORY<br>LAMINATE                         | STD.                   |
| T.<br>AG.            | DETAIL                                 | LAV.<br>LB(S)         | LAVATORY<br>POUND (POUNDS)                     | STL.<br>STOR.          |
| ч.с.<br>Ч.           | DIAGONAL<br>DIAMETER<br>DIMENSION      | L.B.<br>L.F.          | LAG BOLT<br>LINEAL FOOT                        | STRUCT<br>SUSP.        |
| м.<br>SP.<br>I.      | DIMENSION<br>DISPENSER<br>DOWN         | L.H.<br>LIB.          | LEFT HAND<br>LIBRARY                           | S.W.<br>SYM.           |
|                      | DOWN<br>DEEP<br>DOWN SPOUT             | LT.<br>LT.WT.         | light<br>Light weight                          | ТО                     |
| VG.(S)<br>VR.        | DOWN SPOOT<br>DRAWING<br>DRAWER        |                       |  | T.C.<br>TEMP.<br>TMPD. |
|                      |  | MACH.<br>MAINT.       | MACHINE<br>MAINTENANCE                         | TMPD.<br>T&G           |
|                      | EAST                                   | MAX.<br>M.B.          | MAXIMUM<br>MACHINE BOLT                        | THD.                   |
| <br>=.<br>:R         | EACH<br>EXHAUST FAN<br>ENGINEER        | M.B.M.                | METAL BUILDING<br>MANUFACTURER                 | THK.<br>T.I.           |
| iR.<br>I.            | ENGINEER<br>EXPANSION JOINT            | MECH.<br>MED.         | MECHANICAL<br>MEDIUM                           | TK.BD.                 |
| EC.                  | ELEVATION<br>ELECTRIC(AL)              | MEMB.<br>MET.         | MEMBRANE<br>METAL                              | T.O.S.<br>T.P.<br>TS   |
| EV.<br>IB.           | ELEVATOR<br>EMBEDMENT                  | MFR.<br>MH.           | MANUFACTURER                                   | TS<br>TEL.             |
| 1er.<br>N.<br>Ici    | EMERGENCY<br>EDGE NAILING<br>ENCLOSUBE | MKR.<br>MIN.          | MARKER<br>MINIMUM                              | TTB                    |
| ICL.<br>).<br>)I IIP | ENCLOSURE<br>EQUAL<br>EQUIPMENT        | MISC.<br>M.O.         | MISCELLANEOUS<br>MASONRY OPENING               | TV<br>TYP.             |
| QUIP.<br>'AP.<br>W.  | EQUIPMENT<br>EVAPORATIVE<br>EACH WAY   | MTD.<br>MTG.          | MOUNTED<br>MEETING                             | U.G.                   |
| Ή.                   | EXHAUST                                | MULL.                 | MULLION  | U.N.O.                 |
| ST.<br>P.            | EXISTING<br>EXPANSION                  | N                     | NORTH  | UR.                    |
| Τ.                   | EXTERIOR                               | N.I.C.<br>NO.         | NORTH<br>NOT IN CONTRACT<br>NUMBER             | VCT                    |
|                      |  | NO.<br>NOM.<br>N.R.C. | NUMBER<br>NOMINAL<br>NOISE REDUCTION           | VET                    |
|                      |  | N.R.C.                | NOISE REDUCTION<br>COEFFICIENT<br>NOT TO SCALE | VERT.<br>VTR<br>VWC    |
|                      |  | IN. I.O.              | NOT TO BUALE                                   | V VV C                 |

- CMC CALIFORNIA MECHANICAL CODE CPC CALIFORNIA PLUMBING CODE DSA DIVISION OF THE STATE ARCHITECT
- ICBO INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
- NSF NATIONAL SANITATION FOUNDATION NFPA NATIONAL FIRE PROTECTION ASSOCIATION NEC NATIONAL ELECTRICAL CODE
- PLASTER PLYWOOD PAIR POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POINT PAPER TOWEL DISP. PRESSURE TREATED DOUGLAS FIR PARTITION POLYVINYL CHLORIDE RADIUS THERMAL RESISTANCE RETURN AIR ROOF DRAIN REFLECTED REFRIGERATOR REINFORCED REMOVE REQUIRED RESILIENT RIGHT HAND ROUND HEAD WOOD SCREW ROOM ROUGH OPENING RIGHT-OF-WAY REDWOOD RAIN WATER LEADER SOUTH SUPPLY AIR SOLID CORE SCHEDULE STORM DRAIN SECTION SQUARE FEET/FOOT SHOWER SHEATHING SIMILAR SHEET METAL SLAB-ON-GRADE SPECIFICATION(S) SPEAKER SQUARE STAINLESS STEEL STATION SOUND TRANS-MISSION CLASS STANDARD STEEL STORAGE STRUCTURAL SUSPENDED SIDE WALK SYMMETRICAL TOP OF CONCRETE TEMPORARY TEMPERED TONGUE AND GROOVE THREADED THICK TENANT IMPROVEMENT TACK BOARD TOP OF STEEL TOP OF PAVEMENT TUBE STEEL TELEPHONE TELEPHONE TERM-INAL BACK BD. TELEVISION TYPICAL UNDERGROUND UNLESS NOTED OTHERWISE URINAL VINYL COMPOSITION TILE VERTICAL VENT TO ROOF VINYL WALL COVERING WEST OR WIDTH/WIDE WITH WATER CLOSET W.C. W.CH. WD. WDW. WF W.H. W/O W.P. W.S. WT. WHEEL CHAIR WOOD WINDOW WIDE FLANGE WATER HEATER WITHOUT WATERPROOF WOOD SCREW WEIGHT WWF WELDED WIRE

FABRIC

XFMR TRANSFORMER

+10'-0"

# TYPICAL SYMBOLS

OCCUPANT LOAD

OUTSIDE DIAMETER/ DIMENSION

OWNER FURNISHED,

CONTR. INSTALLED

OWNER FURNISHED, OWNER INSTALLED

OVER FLOW ROOF

OPPOSITE HAND OVER HEAD COILING

OVAL HEAD MACH.

OVAL HEAD WOOD SCREW

ON CENTER

OFFICE

DRAIN

DOOR

SCREW

OPENING

OVER ORIGINAL

OPPOSITE

OVER HEAD

NAILING

SCREWS POST INDICATOR

VALVE

PLATE

OPEN WEB JOIST

PLYWOOD EDGE NAILING

PLYWOOD EDGE

PLASTIC LAMINATE PROPERTY LINE

PLYWOOD BOUNDARY

| TYPICAL  | SYMBOLS  |
|----------|--|
| SYMBOLS  |  |
| 4        | ANGLE  |
| Φ        | DIAMETER OR ROUND  |
| $\bot$   | PERPENDICULAR  |
| &        | AND  |
| @        | AT   |
| ¢        | CENTER LINE  |
| #        | POUND OR NUMBER  |
| (1)      |  |
| (A)      | <u>STATION LINE</u>  |
| (000A)   | DOOR SYMBOL<br>DOOR REFERENCE  |
|          |  |
| A        | WINDOW SYMBOL  |
|          | WINDOW REFERENCE   |
| 00.00    | KEYNOTE SYMBOL<br>KEYNOTE REFERENCE, REFER TO<br>KEYNOTE LIST ON SHEET |
| <b>•</b> | WORK POINT, CONTROL POINT OR DATUM POINT                               |
|          | WALL SYMBOL<br>WALL REFERENCE  |
| XX       | SECTION  |
| (XXXXX)  | LOCATION ON SHEET REFERENCED   |
|          | SHEET NUMBER WHERE SECTION IS LOCATED                                  |
| XX       | <u>DETAIL</u><br>——— LOCATION ON SHEET REFERENCED                      |
| XXXX     |  |
| ROOM 🔫   | ROOM IDENTIFICATION<br>ROOM NAME                                       |
|          |  |
|          |  |

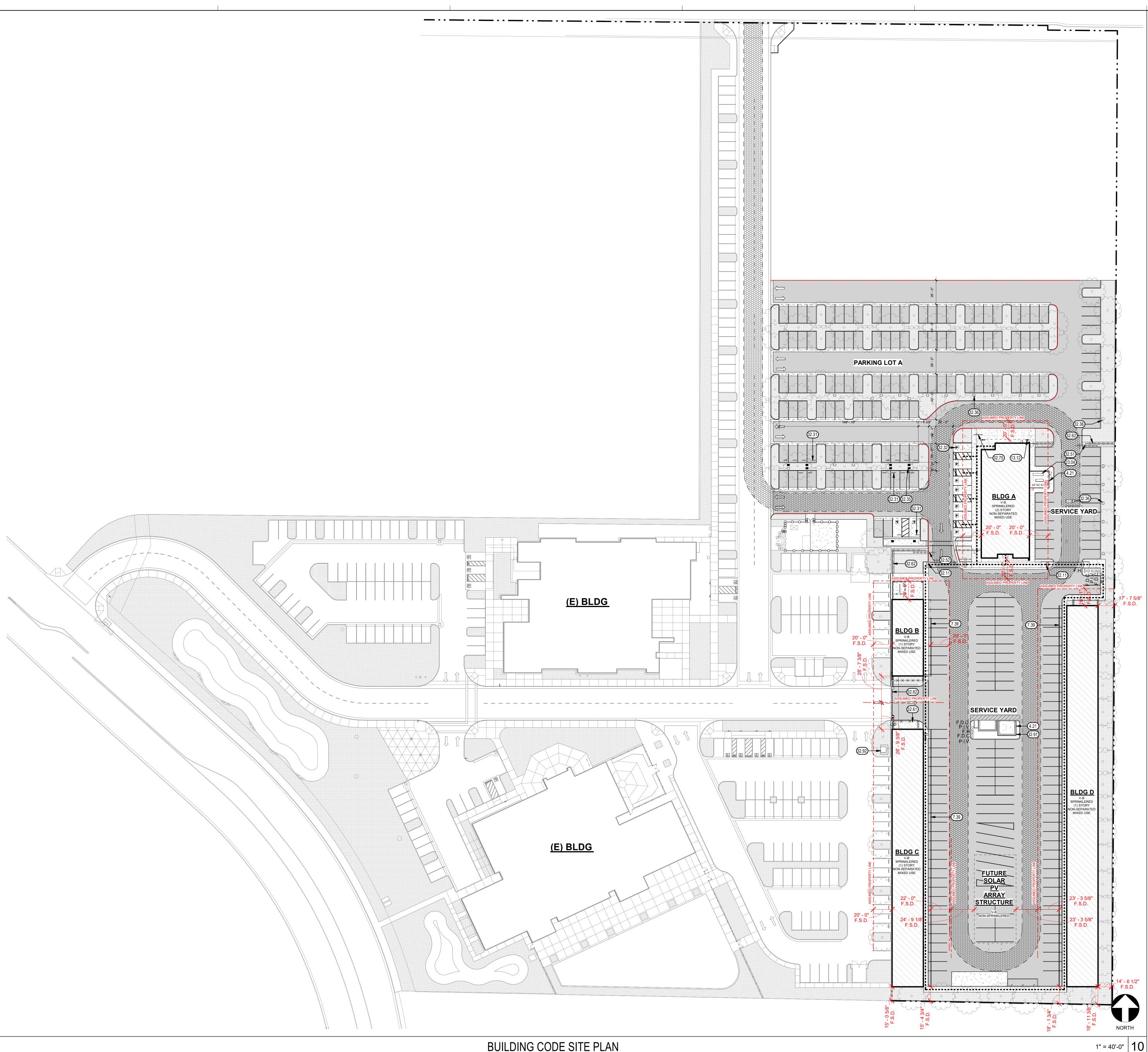
<u>CEILING HEIGHT</u>

| GENERAL            |  |
|--------------------|--|
| G000               | COVER  |
| G001               | LEGENDS, ABBREVIATIONS, SHEET INDEX                                      |
| G101               | BUILDING CODE SITE PLAN  |
| G200               | BLDG. A - OFFICE BLDG BUILDING CODE ANALYSIS                             |
| G210               | BLDG. B - SHOPS BLDG BUILDING CODE ANALYSIS                              |
| G220               | BLDG. C - SHOPS BLDG BUILDING CODE ANALYSIS                              |
| G230               | BLDG. D - SHOPS BLDG BUILDING CODE ANALYSIS                              |
| 7                  |  |
|                    |  |
| ARCHITECTU         | JRAL   |
| A100               | SITE PLAN  |
| A200               | BLDG. A - OFFICE BLDG FLOOR PLAN   |
| A201               | BLDG. A - OFFICE BLDG ENLARGED FLOOR PLAN                                |
| A210               | BLDG. B - SHOPS BLDG FLOOR PLAN  |
| A220               | BLDG. C - SHOPS BLDG FLOOR PLAN  |
| A230               | BLDG. D - SHOPS BLDG FLOOR PLAN  |
| A300               | BLDG. A - OFFICE BLDG EXTERIOR ELEVATIONS                                |
| A310               | BLDG. B - SHOPS BLDG EXTERIOR ELEVATIONS                                 |
| A320               | BLDG. C - SHOPS BLDG EXTERIOR ELEVATIONS                                 |
| A321               | BLDG. C - SHOPS BLDG EXTERIOR ELEVATIONS                                 |
| A330               | BLDG. D - SHOPS BLDG EXTERIOR ELEVATIONS                                 |
| A331               | BLDG. D - SHOPS BLDG EXTERIOR ELEVATIONS                                 |
| A400               | BLDG. A - OFFICE BLDG BUILDING SECTIONS                                  |
| A401               | BLDG. B - SHOPS BLDG BUILDING SECTIONS                                   |
| A402               | BLDG. C - SHOPS BLDG BUILDING SECTIONS                                   |
| A403               | BLDG. D - SHOPS BLDG BUILDING SECTIONS                                   |
| A500               | BLDG. A - OFFICE BLDG ROOF PLAN  |
| A510               | BLDG. B - SHOPS BLDG ROOF PLAN   |
| A520               | BLDG. C - SHOPS BLDG ROOF PLAN   |
| A530               | BLDG. D - SHOPS BLDG ROOF PLAN   |
| A600               | BLDG. A - OFFICE BLDG REFLECTED CEILING PLAN                             |
| A610               | BLDG. B - SHOPS BLDG REFLECTED CEILING PLAN                              |
| A620               | BLDG. C - SHOPS BLDG REFLECTED CEILING PLAN                              |
| A630               | BLDG. D - SHOPS BLDG REFLECTED CEILING PLAN                              |
| A800               | DETAILS  |
| 25                 |  |
|                    |  |
| STRUCTURA          |  |
| S000               | STRUCTURAL NOTES   |
| S001               | STRUCTURAL NOTES   |
| S002               | TYPICAL DETAILS - FOUNDATION   |
| S003               | TYPICAL DETAILS - METAL STUDS  |
| S004               |  |
| S100               | BLDG. A - FOUNDATION & 2ND FLOOR FRAMING PLAN                            |
| S101               | BLDG. A - WALL FRAMING DETAILS   |
| S110               | BLDG. B - FOUNDATION PLAN  |
| S120               | BLDG. C - FOUNDATION PLAN  |
| S130               | BLDG. D - FOUNDATION PLAN  |
| S500               | FOUNDATION DETAILS   |
| 11                 |  |
| MECHANICAI         |  |
| MECHANICAL<br>M001 | L<br>MECHANICAL SCHEDULES, LEGENDS, AND NOTES                            |
| M200               | MECHANICAL SCHEDULES, LEGENDS, AND NOTES                                 |
| M200               | MECHANICAL FLOOR PLANS - BUILDING B                                      |
| M210<br>M220       | MECHANICAL FLOOR PLAN - BUILDING B<br>MECHANICAL FLOOR PLAN - BUILDING C |
| M220<br>M230       | MECHANICAL FLOOR PLAN - BUILDING C                                       |
| 5                  |  |
| <u> </u>           |  |
| ELECTRICAL         |  |
| E200               | POWER PLAN - FIRST FLOOR BUILDING A                                      |
| E200               | POWER PLAN - SECOND FLOOR BUILDING A                                     |
| E210               | POWER PLAN - SECOND FLOOR BUILDING A                                     |
| E210               | POWER PLAN - FIRST FLOOR BUILDING C                                      |
| E230               | POWER PLAN - FIRST FLOOR BUILDING D                                      |
| E300               | LIGHTING PLAN - FIRST FLOOR BUILDING A                                   |
| E301               | LIGHTING PLAN - SECOND FLOOR BUILDING A                                  |
| E310               | LIGHTING PLAN - FIRST FLOOR BUILDING B                                   |
| E320               | LIGHTING PLAN - FIRST FLOOR BUILDING C                                   |
| E330               | LIGHTING PLAN - FIRST FLOOR BUILDING D                                   |
| E400               | SIGNAL PLAN - FIRST FLOOR BUILDING A                                     |
| E401               | SIGNAL PLAN - SECOND FLOOR BUILDING A                                    |
| E410               | SIGNAL PLAN - FIRST FLOOR BUILDING B                                     |
| E420               | SIGNAL PLAN - FIRST FLOOR BUILDING C                                     |
| E430               | SIGNAL PLAN - FIRST FLOOR BUILDING D                                     |
| E500               | FIRE ALARM PLAN - FIRST FLOOR BUILDING A                                 |
| E501               | FIRE ALARM PLAN - SECOND FLOOR BUILDING A                                |
| E510               | FIRE ALARM PLAN - FIRST FLOOR BUILDING B                                 |
| E520               | FIRE ALARM PLAN - FIRST FLOOR BUILDING C                                 |
| E530               | FIRE ALARM PLAN - FIRST FLOOR BUILDING D                                 |
| E712               | FIRE ALARM RISER DIAGRAM & CALCULATIONS                                  |
| E713               | FIRE ALARM RISER DIAGRAM & CALCULATIONS                                  |

TOTAL PAGES: 70

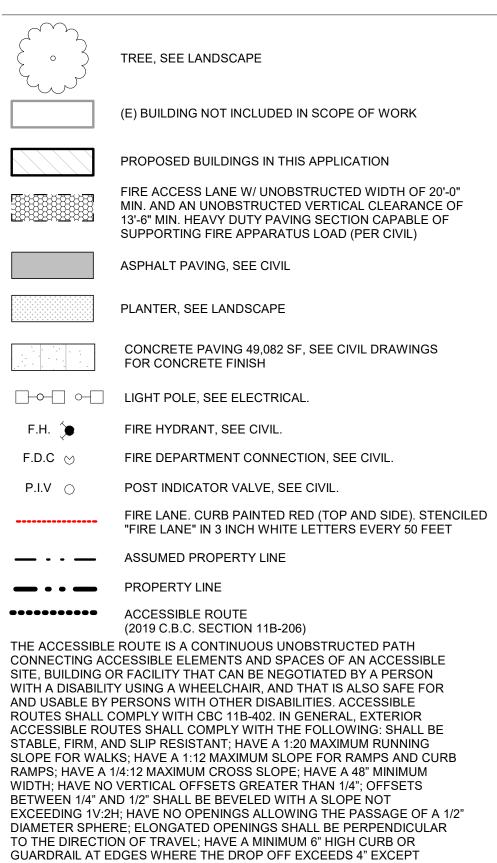
E713 FIRE ALARM RISER DIAGRAM & CALCULATIONS



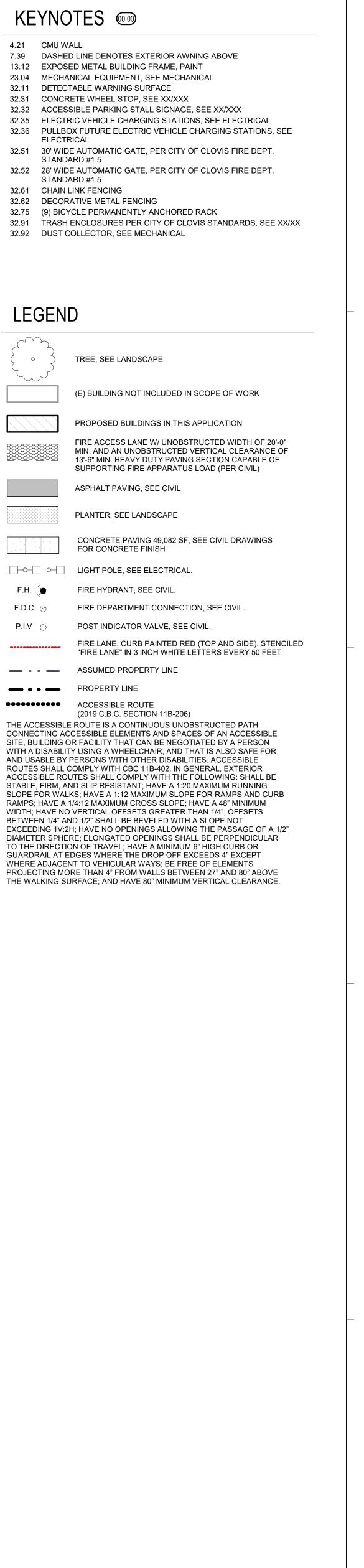


| 4.21  | CMU WALL   |
|-------|--|
| 7.39  | DASHED LINE DENOTES EXTERIOR AWNING ABOVE                            |
| 13.12 | EXPOSED METAL BUILDING FRAME, PAINT                                  |
| 23.04 | MECHANICAL EQUIPMENT, SEE MECHANICAL                                 |
| 32.11 | DETECTABLE WARNING SURFACE   |
| 32.31 | CONCRETE WHEEL STOP, SEE XX/XXX                                      |
| 32.32 | ACCESSIBLE PARKING STALL SIGNAGE, SEE XX/XXX                         |
| 32.35 | ELECTRIC VEHICLE CHARGING STATIONS, SEE ELECTRICAL                   |
| 32.36 | PULLBOX FUTURE ELECTRIC VEHICLE CHARGING STATIONS, ELECTRICAL        |
| 32.51 | 30' WIDE AUTOMATIC GATE, PER CITY OF CLOVIS FIRE DEPT. STANDARD #1.5 |
| 32.52 | 28' WIDE AUTOMATIC GATE, PER CITY OF CLOVIS FIRE DEPT. STANDARD #1.5 |
| 32.61 | CHAIN LINK FENCING   |
| 32.62 | DECORATIVE METAL FENCING   |
| 32.75 | (9) BICYCLE PERMANENTLY ANCHORED RACK                                |
| 32.91 | TRASH ENCLOSURES PER CITY OF CLOVIS STANDARDS, SEE                   |
| 32.92 | DUST COLLECTOR, SEE MECHANICAL                                       |
|       |  |

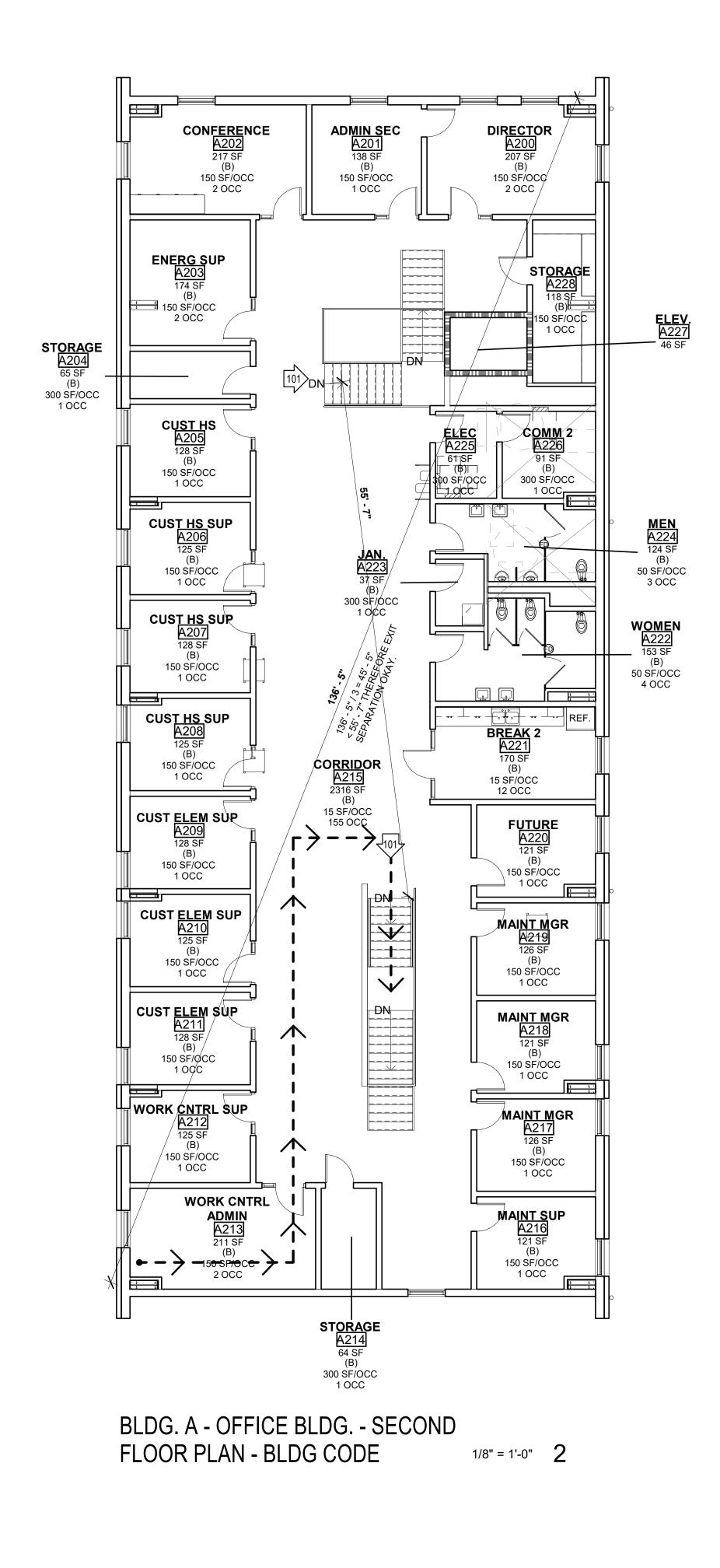
# LEGEND

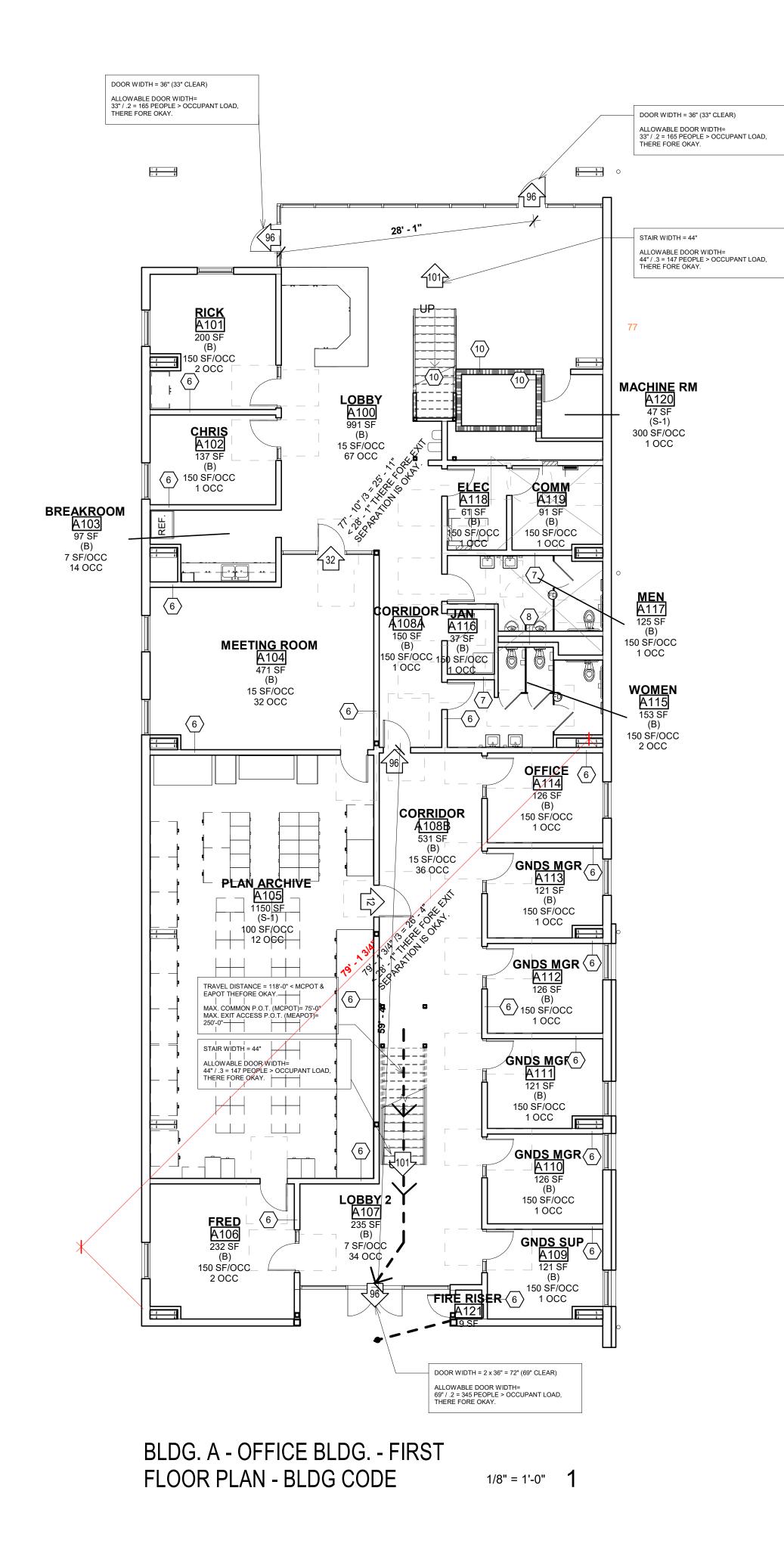


WHERE ADJACENT TO VEHICULAR WAYS; BE FREE OF ELEMENTS









# **BUILDING CODE ANALYSIS**

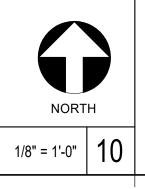
# **BUILDING ANALYSIS**

BUILDING: A

- A. OCCUPANCY CLASSIFICATION(S) (CBC SECTION 302): 1. 'B', BUSINESS 2. 'S-1', MODERATE-HAZARD STORAGE
- B. CONSTRUCTION TYPE (CBC 602): TYPE VB, FULLY NFPA 13 FIRE SPRINKLERED
- C. HEIGHT IN FEET: 1. ALLOWABLE (CBC TABLE 504.3): 60'-0"
- 2. ACTUAL: 32'-0"
- D. HEIGHT IN STORIES: 1. ALLOWABLE (CBC TABLE 504.4): 2 STORY (S-1 GOVERNS)
- 2. ACTUAL: 2 STORIES E. OCCUPANCY SEPARATION (CBC SECTION 508.4) a. NON-SEPARATED
- F. AREA:
- 1. ALLOWABLE AREA (CBC 506) (ALLOWABLE AREA BASED ON NON-SEPARATED OCCUPANCIES PER CBC 508.3 WITH XX OCCUPANCY BEING THE MOST RESTRICTIVE, AND TYPE OF CONSTRUCTION INDICATED ABOVE)
- 1. SINGLE OCCUPANCY MULTI-STORY BUILDING (CBC 506.2.3) a. Aa = At + (NS x lf) x Sa = 27,000 S.F. x 2 = 54,000 S.F.
  b. At = 27,000 SF (CBC TABLE 506.2, S1 VALUE)
- c. NS = N/A d. If = N/A e. Sa = NUMBER OF STORIES (Sa SHALL NOT EXCEED 2 FOR `A' `E' OR `R' OCCUPANCIES) (NO INDIVIDUAL STORY SHALL EXCEED THE AREA USING THE VALUE OF Sa = 1)
- 2. ACTUAL AREA:
  - GROUND FLOOR: ENCLOSED: 5,924 SF <u>429 SF</u> 6,353 SF < 27,000 S.F.THEREFORE OKAY OVERHANGS: TOTAL: SECOND FLOOR: ENCLOSED: 5,924 SF OVERHANGS:
  - 0 SF 5,924 SF < 27,000 S.F. THEREFORE OKAY TOTAL: TOTAL GROUND + SECOND FLOOR = 12,277 SF < 54,000 THEREFORE OKAY

# LEGEND

|                     | - PATH OF TRAVEL  |
|---------------------|---|
|                     | - MOST REMOTE OCCUPIED LOCATION                                 |
|                     | - DIRECTION OF EGRESS   |
| <<br>XX<br>X        | NUMBER OF OCCUPANTS EXITING                                     |
| ROOM -              | - ROOM NAME & NUMBER  |
| 101<br>150 SF (NET) | - ROOM AREA   |
| 50 SF/OCC           | - OCCUPNAT LOAD FACTOR  |
|                     | - CALCULATED OCCUPANT LOAD                                      |
| F.E.C.              | FIRE EXTINGUISHER & CABINET, SEE - /                            |
| F.E.                | BRACKET MOUNTED FIRE EXTINGUISHER, SEE                          |
|                     | HATCH 1 (NO HATCH)<br>CIRCULATION SPACE                         |
|                     | HATCH 2 (DIAMOND)<br>'B' OCCUPANCY; OFFICE USE, 150 SF/OCC.     |
|                     | HATCH 3 (GRID)<br>'A-3' OCCUPANCY; UNCONCENTRATED ASSEMBLY      |
|                     | HATCH 4 (DIAGONAL)<br>INDICATES AREA NOT IN ARCHITECTURAL SCOPE |
|                     |   |



- / ---

BLY, 15 SF/OCC. PE OF WORK



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|  |   |        |   | TETR/Documents/         |
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|  |   |        |   | 7                       |

|                                       |                      | GROUP<br>WHEN<br>THE                               |                                    | STORAGE <sup>b</sup>          |                                  | USE-CLOSED SYSTEMS <sup>b</sup>    |                               |                                  | USE-OPEN<br>SYSTEMS <sup>b</sup>   |                               |
|---------------------------------------|----------------------|--|------------------------------------|-------------------------------|----------------------------------|------------------------------------|-------------------------------|----------------------------------|------------------------------------|-------------------------------|
| MATERIAL                              | CLASS                | MAXIMUM<br>ALLOWABLE<br>QUANTITY<br>IS<br>EXCEEDED | Solid<br>pounds<br>(cubic<br>feet) | Liquid<br>gallons<br>(pounds) | Gas<br>(cubic<br>feet at<br>NTP) | Solid<br>pounds<br>(cubic<br>feet) | Liquid<br>gallons<br>(pounds) | Gas<br>(cubic<br>feet at<br>NTP) | Solid<br>pounds<br>(cubic<br>feet) | Liquid<br>gallons<br>(pounds) |
| Combustible<br>dust                   | NA                   | H-2  | See<br>Note q                      | NA                            | NA                               | See<br>Note q                      | NA                            | NA                               | See<br>Note q                      | NA                            |
| Combustible                           | Loose                | -  | (100)                              |                               | 1.1.1.4                          | (100)                              |                               |                                  | (20)                               | 0.5                           |
| fiber <sup>q</sup>                    | Baled <sup>o</sup>   | H-3  | (1,000)                            | NA                            | NA                               | (1,000)                            | NA                            | NA                               | (200)                              | NA                            |
|                                       | ji –                 | H-2 or H-3   |                                    | 120 <sup>d, e</sup>           |                                  |                                    | 120 <sup>d</sup>              | 1.1.1                            |                                    | 30 <sup>d</sup>               |
| Combustible<br>iquid <sup>c, i</sup>  | IIIA                 | H-2 or H-3   | NA                                 | 330 <sup>d, e</sup>           | NA                               | NA                                 | 330 <sup>d</sup>              | NA                               | NA                                 | 80 <sup>d</sup>               |
|                                       | IIIB                 | NA   |                                    | 13,200 <sup>e, f</sup>        |                                  |                                    | 13,200 <sup>f</sup>           |                                  |                                    | 3,300 <sup>f</sup>            |
| Cryogenic<br>flammable                | NA                   | H-2  | NA                                 | 45 <sup>d</sup>               | NA                               | NA                                 | 45 <sup>d</sup>               | NA                               | NA                                 | 10 <sup>d</sup>               |
| Cryogenic<br>inert                    | NA                   | NA   | NA                                 | NA                            | NL                               | NA                                 | NA                            | NL                               | NA                                 | NA                            |
| Cryogenic<br>oxidizing                | NA                   | H-3  | NA                                 | 45 <sup>d</sup>               | NA                               | NA                                 | 45 <sup>d</sup>               | NA                               | NA                                 | 10 <sup>d</sup>               |
| Explosives                            | Division<br>1,1      | H-1  | J <sup>e.g</sup>                   | (1) <sup>e, g</sup>           | NA                               | 0.25 <sup>g</sup>                  | (0.25) <sup>g</sup>           | NA                               | 0.25 <sup>g</sup>                  | (0.25) <sup>g</sup>           |
|                                       | Division<br>1.2      | H-1  | 1e.e                               | (1) <sup>e, g</sup>           |                                  | 0.25 <sup>g</sup>                  | (0.25) <sup>g</sup>           |                                  | 0.25 <sup>g</sup>                  | (0.25) <sup>g</sup>           |
|                                       | Division<br>1.3      | H-1 or H-2   | 10 <sup>e, g</sup>                 | (10) <sup>e, g</sup>          |                                  | 1 <sup>g</sup>                     | .(1) <sup>g</sup>             |                                  | 18                                 | (1) <sup>g</sup>              |
| lammaple                              | Division<br>1.4      | Н-3  | 50 <sup>e, g</sup>                 | (50) <sup>e. g</sup>          |                                  | 50 <sup>g</sup>                    | (50) <sup>g</sup>             |                                  | NA                                 | NA                            |
|                                       | Division<br>1.4G     | Н-3  | 125 <sup>e, I</sup>                | NA                            |                                  | NA                                 | NA                            |                                  | NA                                 | NA                            |
|                                       | Division<br>1.5      | H-1  | 1 <sup>e, g</sup>                  | (1) <sup>e, g</sup>           |                                  | 0.25 <sup>g</sup>                  | (0.25) <sup>g</sup>           |                                  | 0.25 <sup>g</sup>                  | (0.25) <sup>g</sup>           |
| iquid,<br>combination<br>(IA, IB, IC) | NA                   | H-2 or H-3   | NA                                 | 120 <sup>d, e, h</sup>        | NA                               | NA                                 | 120 <sup>d, h</sup>           | NA                               | NA                                 | 30 <sup>d, h</sup>            |
| Flammable<br>solid                    | NA                   | Н-3  | 125 <sup>d, e</sup>                | NA                            | NA                               | 125 <sup>d</sup>                   | NA                            | NA                               | 25 <sup>d</sup>                    | NA                            |
|                                       | Gaseous              | NA   | NA                                 | NA                            | NL                               | NA                                 | NA                            | NL                               | NA                                 | NA                            |
| nert gas                              | Liquefied            | NA   | NA                                 | NA                            | NL                               | NA                                 | NA                            | NL                               | NA                                 | NÁ                            |
|                                       | UD                   | H-1  | 1 <sup>e, g</sup>                  | (1) <sup>e, g</sup>           |                                  | 0.25 <sup>g</sup>                  | (0.25) <sup>g</sup>           | 1100                             | 0.25 <sup>g</sup>                  | (0.25) <sup>8</sup>           |
|                                       | 1                    | H-2  | 5 <sup>d, e</sup>                  | (5) <sup>d, e</sup>           |                                  | 1 <sup>d</sup>                     | (1) <sup>d</sup>              |                                  | 1 <sup>d</sup>                     | (1) <sup>d</sup>              |
| Organic                               | Ш                    | H-3  | 50 <sup>d, e</sup>                 | (50) <sup>d, e</sup>          | NA                               | 50 <sup>d</sup>                    | (50) <sup>d</sup>             | NA                               | 10 <sup>d</sup>                    | (10) <sup>d</sup>             |
| peroxide                              |                      | H-3  | 125 <sup>d, e</sup>                | (125) <sup>d, e</sup>         |                                  | 125 <sup>d</sup>                   | (125) <sup>d</sup>            | NA                               | 25 <sup>d</sup>                    | (25) <sup>d</sup>             |
|                                       | IV                   | NA   | NL                                 | NL                            |                                  | NL                                 | NL                            |                                  | NL                                 | NL                            |
|                                       | V                    | NA   | NL                                 | NL                            |                                  | NL                                 | NL                            |                                  | NL                                 | NL                            |
|                                       | 4                    | H-1  | 18                                 | (1) <sup>e, g</sup>           |                                  | 0.25 <sup>g</sup>                  | (0.25) <sup>g</sup>           | 1                                | 0.25 <sup>g</sup>                  | (0.25) <sup>g</sup>           |
| Dxidizer                              | 3 <sup>k</sup>       | H-2 or H-3   | 10 <sup>d, e</sup>                 | (10) <sup>d, e</sup>          | NA                               | 2 <sup>d</sup>                     | (2) <sup>d</sup>              | NA                               | 2 <sup>d</sup>                     | (2) <sup>d</sup>              |
| SAIGIECT.                             | 2                    | H-3  | 250 <sup>d, e</sup>                | (250) <sup>d, e</sup>         |                                  | 250 <sup>d</sup>                   | (250) <sup>d</sup>            |                                  | 50 <sup>d</sup>                    | (50) <sup>d</sup>             |
|                                       | 1                    | NA   | 4,000 <sup>e, f</sup>              | (4,000) <sup>e, f</sup>       | -                                | 4,000 <sup>f</sup>                 | (4,000) <sup>f</sup>          |                                  | 1,000 <sup>f</sup>                 | (1,000) <sup>f</sup>          |
| Oxidizing gas                         | Gaseous<br>Liquefied | H-3  | NA                                 | NA<br>(150) <sup>d, e</sup>   | 1,500 <sup>d,e</sup><br>NA       | NA                                 | NA<br>(150) <sup>d,e</sup>    | 1,500 <sup>d,e</sup><br>NA       | NA                                 | NA                            |
| Pyrophoric                            | NA                   | H-2  | 4 <sup>e, g</sup>                  | (4) <sup>e, g</sup>           | 50 <sup>e, g</sup>               | 1g                                 | (1) <sup>g</sup>              | 10 <sup>e, g</sup>               | Ō                                  | 0                             |
|                                       | 4                    | H-1  | 1 <sup>e, g</sup>                  | (1) <sup>e, g</sup>           | 10 <sup>e, g</sup>               | 0.25 <sup>g</sup>                  | (0.25) <sup>g</sup>           | 2 <sup>e, g</sup>                | 0.25 <sup>g</sup>                  | (0.25) <sup>g</sup>           |
| Instable                              | 3                    | H-1 or H-2   | 5 <sup>d, e</sup>                  | (5) <sup>d, e</sup>           | 50 <sup>d, e</sup>               | 1d                                 | (1) <sup>d</sup>              | 10 <sup>d, e</sup>               | 10                                 | (1) <sup>d</sup>              |
| Jnstable<br>reactive)                 | 2                    | H-3  | 50 <sup>d, e</sup>                 | (50) <sup>d, e</sup>          | 750 <sup>d, e</sup>              | 50 <sup>d</sup>                    | (50) <sup>d</sup>             | 750 <sup>d, e</sup>              | 10 <sup>d</sup>                    | (10) <sup>d</sup>             |
|                                       | 1                    | NA   | NL                                 | NL                            | NL                               | NL                                 | NL                            | NL                               | NL                                 | NL                            |
|                                       | 3                    | H-2  | 5 <sup>d, e</sup>                  | (5) <sup>d, e</sup>           |                                  | 5 <sup>d</sup>                     | (5) <sup>d</sup>              | 1111                             | 1 <sup>d</sup>                     | (1) <sup>d</sup>              |
| Water                                 | 2                    | H-3  | 50 <sup>d, e</sup>                 | (50) <sup>d, e</sup>          | NA                               | 50 <sup>d</sup>                    | (50) <sup>d</sup>             | NA                               | 10 <sup>d</sup>                    | (10) <sup>d</sup>             |
| reactive                              | 1                    | NA   | NL                                 | NL                            |                                  | NL                                 | NL                            | 1.11                             | NL                                 | NL                            |

|            |                                 | STORAGEb                                      |  |                              | E-CLOSED SYST                              | EMS <sup>b</sup>                                     | USE-OPEN SYSTEMS <sup>b</sup> |  |     |
|------------|---------------------------------|---|--|------------------------------|--|--|-------------------------------|--|-----|
| MATERIAL   | Solid<br>pounds <sup>d, e</sup> | Liquid<br>gallons<br>(pounds) <sup>d, e</sup> | Gas cubic<br>feet at<br>NTP<br>(pounds) <sup>d</sup> | Solid<br>pounds <sup>d</sup> | Liquid<br>gallons<br>(pounds) <sup>d</sup> | Gas cubic<br>feet at<br>NTP<br>(pounds) <sup>d</sup> | Solid<br>pounds <sup>d</sup>  | Liquid<br>gallons<br>(pounds) <sup>d</sup> |     |
|            | 5,000                           | 0 500   | Gaseous<br>810 <sup>e</sup>                          | 5,000                        | 5,000 500                                  | Gaseous<br>810 <sup>e</sup>                          | 1,000                         | 100  |     |
| Corrosives |                                 |   | Liquefied<br>(150)                                   |                              |  | Liquefied<br>(150)                                   |                               |  |     |
| Highly     | 10                              | (10)  | Gaseous 20g  | 10                           | (10)                                       | Gaseous 20 <sup>g</sup>                              | 2                             | (2)  |     |
| Toxic      | 10                              | (10)  | Liquefied (4) <sup>g</sup>                           |                              | 10   | (10)   | Liquefied (4) <sup>g</sup>    | 3  | (3) |
| Toxic      |                                 | 500 (500)                                     | Gaseous<br>810 <sup>e</sup>                          | 500                          | (500)                                      | Gaseous<br>810 <sup>e</sup>                          | 125                           | (125)                                      |     |
|            | 500                             |   | Liquefied<br>(150) <sup>e</sup>                      |                              | (500)                                      | Liquefied<br>(150) <sup>e</sup>                      |                               |  |     |

[F] TABLE 307.1(2)

For SI: 1 cubic foot = 0.028 m<sup>3</sup>, 1 pound = 0.454 kg, 1 gallon = 3.785 L.

a. For use of control areas, see Section 414.2.

b. The aggregate quantity in use and storage shall not exceed the quantity specified for storage. c. In retail and wholesale sales occupancies, the quantities of medicines, foodstuffs or consumer products, and cosmetics containing not more than 50 percent by volume of water-miscible liquids and with the remainder of the

solutions not being flammable, shall not be limited, provided that such materials are packaged in individual containers not exceeding 1.3 gallons. d. [SFM] In other than Group L occupancies, maximum allowable quantities shall be increased 100 percent in buildings

equipped throughout with an approved automatic sprinkler system in accordance with Section 903.3.1.1. Where Note e also applies, the increase for both notes shall be applied accumulatively. e. Maximum allowable quantities shall be increased 100 percent where stored in approved storage cabinets, gas

cabinets or exhausted enclosures as specified in the California Fire Code. Where Note d also applies, the increase for both notes shall be applied accumulatively.

f. For storage and display quantities in Group M and storage quantities in Group S occupancies complying with Section 414.2.5, see Tables 414.2.5(1) and 414.2.5(2).

g. Allowed only where stored in approved exhausted gas cabinets or exhausted enclosures as specified in the California Fire Code.

h. Quantities in parentheses indicate quantity units in parentheses at the head of each column.

i. For gallons of liquids, divide the amount in pounds by 10 in accordance with Section 5003.1.2 of the California Fire

For SI: 1 cubic foot = 0.028 m<sup>3</sup>, 1 pound = 0.454 kg, 1 gallon = 3.785 L.

volume of water-miscible liquids with the remainder of the solutions not being flammable, shall not be limited, provided that such materials are packaged in individual containers not exceeding 1.3 gallons.

d. [SFM] In other than Group L occupancies, maximum allowable quantities shall be increased 100 percent in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1. Where Note e also applies, the increase for both notes shall be applied accumulatively.

e. Maximum allowable quantities shall be increased 100 percent when stored in approved storage cabinets, day boxes, gas cabinets, gas rooms or exhausted enclosures or in listed safety cans in accordance with Section 5003.9.10 of the California Fire Code. Where Note d also applies, the increase for both notes shall be applied accumulatively.

f. Quantities shall not be limited in a building equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.

g. Allowed only in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.

h. Containing not more than the maximum allowable quantity per control area of Class IA, IB or IC flammable liquids.

i. The maximum allowable quantity shall not apply to fuel oil storage complying with Section 605.4.2 of the California Fire Code.

j. Quantities in parentheses indicate quantity units in parentheses at the head of each column.

k. A maximum quantity of 220 pounds of solid or 22 gallons of liquid Class 3 oxidizers is allowed when such materials are necessary for maintenance purposes, operation or sanitation of equipment when the storage containers and the manner of storage are approved.

l. Net weight of the pyrotechnic composition of the fireworks. Where the net weight of the pyrotechnic composition of the fireworks is not known, 25 percent of the gross weight of the fireworks, including packaging, shall be used.

m. For gallons of liquids, divide the amount in pounds by 10 in accordance with Section 5003.1.2 of the California Fire Code.

n. For storage and display quantities in Group M and storage quantities in Group S occupancies complying with Section 414.2.5, see Tables 414.2.5(1) and 414.2.5(2).

o. Densely packed baled cotton that complies with the packing requirements of ISO 8115 shall not be included in this material class. p. The following shall not be included in determining the maximum allowable quantities:

1. Liquid or gaseous fuel in fuel tanks on vehicles.

2. Liquid or gaseous fuel in fuel tanks on motorized equipment operated in accordance with the California Fire Code.

3. Gaseous fuels in piping systems and fixed appliances regulated by the International Fuel Gas Code.

4. Liquid fuels in piping systems and fixed appliances regulated by the California Mechanical Code.

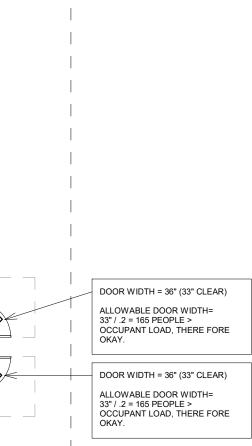
5. Alcohol-based hand rubs classified as Class I or II liquids in dispensers that are installed in accordance with Sections 5705.5 and 5705.5.1 of the California Fire Code. The location of the alcohol-based hand rub (ABHR) dispensers shall be provided in the construction documents.

q. Where manufactured, generated or used in such a manner that the concentration and conditions create a fire or explosion hazard based on information prepared in accordance with Section 414.1.3.

COVERED LAY DOWN Not Enclosed (F-1) 100 SF/OCC 0 0 0 C C TRAVEL DISTANCE = 52'-9" < MCPOT & EAPOT THEFORE OKAY. MAX. COMMON P.O.T. (MCPOT)= 75'-0" (WHEN 1 EXIT) MAX. EXIT ACCESS P.O.T. (MEAPOT)= 250'-0" PAIN<u>T SH</u>OP 1643 SF (F-1) 100 SF/OCC 17 OCC AIR COMPR

. . .

PAINT OFFICE B102 300 SF (B) 150 SF/OCC 3 OCC



DOOR WIDTH = 36" (33" CLEAR)

ALLOWABLE DOOR WIDTH= 33" / .2= 165 PEOPLE > OCCUPANT LOAD, THERE FORE OKAY.

# KEYNOTES 🚥

# BUILDING ANALYSIS

### BUILDING B

- A. OCCUPANCY CLASSIFICATION(S) (CBC SECTION 302): 1. 'B', BUSINESS 2. 'F-1', MODERATE-HAZARD FACTORY INDUSTRIAL
- 3. 'S-1', MODERATE-HAZARD STORAGE.
- B. CONSTRUCTION TYPE (CBC 602): TYPE VB, SPRINKLERED C. HEIGHT IN FEET:
- 1. ALLOWABLE (CBC TABLE 504.3): 60 FEET (B, F-1, S-1) 2. ACTUAL: 25'-0"
- D. HEIGHT IN STORIES: 1. ALLOWABLE (CBC TABLE 504.4): 2 STORY (F-1, S-1), 3 STORY (B) 2. ACTUAL: 1 STORY
- E. OCCUPANCY SEPARATION (CBC SECTION 508.3)
- 1. NON-SEPARATED A. AREA:
- 1. ALLOWABLE AREA (CBC 506) a. (ALLOWABLE AREA BASED ON NON-SEPARATED OCCUPANCIES PER CBC 508.3 WITH F-1 OCCUPANCY BEING THE MOST RESTRICTIVE, AND TYPE OF CONSTRUCTION INDICATED ABOVE)
- 2. SINGLE OCCUPANCY ONE STORY BUILDING (CBC 506.2.1) a. Aa = At + (NS x lf) = 34,000 SF
- b. At = 36,000 SF (B, S-1), 34,000 SF (F-1 > GOVERNS), (CBC TABLE 506.2, S1 VALUE) c. NS = 8,500 SF (F-1 > GOVERNS), 9,000 SF (B, S-1) (CBC TABLE 506.2, NS VALUE) d. If = N/A
- 3. ACTUAL AREA: ENCLOSED: 2.099 SF
- OVERHANGS: 1.768 S 3,867 SF < 34,000 SF THEREFORE OKAY
- G. FIRE ALARM: 1. NONE REQUIRED BY THE CALIFORNIA BUILDING CODE.

### CORRIDOR CONSTRUCTION

- A. FIRE RESISTIVE RATING (CBC SECTION 1020 AND TABLE 1020.1): NONE REQUIRED FOR SPRINKLERED BUILDING.
- B. CORRIDOR WIDTH (CBC TABLE 1020.2): 44" MIN. DEAD END (CBC SECTION 1020.4): 50'-0" MAX.
- D. SEE EXITING PLAN FOR DEAD END DISTANCES.

### EGRESS

- A. COMMON PATH OF EGRESS TRAVEL (CBC TABLE 1006.2.1): 100' 0" MAX. B. EXIT ACCESS TRAVEL DISTANCE (CBC SECTION 1017 & TABLE 1017.2): 300' - 0" MAX.
- C. NUMBER OF EXITS REQUIRED (CBC SECTION 1006 & TABLE 1006.3.1 1. REQUIRED FOR FIRST FLOOR: 148 OCCUPANTS = 2 MIN. (3 PROVIDED)
- 2. REQUIRED FOR SECOND FLOOR: 122 OCCUPANTS = 2 MIN. (2 PROVIDED) D. EGRESS WIDTH COMPONENT (CBC SECTION 1005.3.2) : 0.2"/OCC.; A 36" WIDE DOOR HAS A CLEAR WIDTH OF 33" MIN. AND WILL ACCOMMODATE 165 OCCUPANTS.
- E. EGRESS WIDTH STAIRS (CBC SECTION 1005.3.1): 0.3"/OCC.; 44" STAIR WIDTH WILL ACCOMMODATE 146 OCCUPANTS
- F. SEE EXITING PLAN FOR TRAVEL DISTANCE & EGRESS WIDTH.

# LEGEND

101

F.E.C.

F.E.

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- MOST REMOTE OCCUPIED LOCATION DIRECTION OF EGRESS

# NUMBER OF OCCUPANTS EXITING

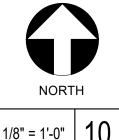
ROOM ROOM NAME & NUMBER

### 150 SF (NET) 50 SF/OCC - OCCUPNAT LOAD FACTOR

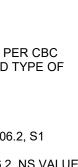
- CALCULATED OCCUPANT LOAD FIRE EXTINGUISHER & CABINET, SEE - / ---
- BRACKET MOUNTED FIRE EXTINGUISHER, SEE / ---

### HATCH 1 (NO HATCH) CIRCULATION SPACE

- HATCH 2 (DIAMOND) 'B' OCCUPANCY; OFFICE USE, 150 SF/OCC.
- HATCH 3 (GRID) 'A-3' OCCUPANCY; UNCONCENTRATED ASSEMBLY, 15 SF/OCC.
- HATCH 4 (DIAGONAL) INDICATES AREA NOT IN ARCHITECTURAL SCOPE OF WORK



1/8" = 1'-0" 10







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|   |                             | T OU UNIT   |                                    |   | 307.1(1)                         |                                    |  | DUNCTON                          |                                    | m.e.e                                     |
|---|-----------------------------|---|------------------------------------|---|----------------------------------|------------------------------------|--|----------------------------------|------------------------------------|---|
| MAXIMU  | M ALLOWABI                  | GROUP<br>WHEN   | R CONTRO                           | L AREA OF H                                   | AZARDOU                          |                                    | LS POSING A                                | Sec. 1                           | USE                                | OPEN                                      |
| MATERIAL  | CLASS                       | THE<br>MAXIMUM<br>ALLOWABLE<br>QUANTITY<br>IS<br>EXCEEDED | Solid<br>pounds<br>(cubic<br>feet) | Liquid<br>gallons<br>(pounds)                 | Gas<br>(cubic<br>feet at<br>NTP) | Solid<br>pounds<br>(cubic<br>feet) | Liquid<br>gallons<br>(pounds)              | Gas<br>(cubic<br>feet at<br>NTP) | Solid<br>pounds<br>(cubic<br>feet) | Liquid<br>gallons<br>(pounds              |
| Combustible<br>dust                                 | NA                          | H-2   | See<br>Note q                      | NA  | NA                               | See<br>Note q                      | NA   | NA                               | See<br>Note q                      | NA  |
| Combustible<br>fiber <sup>q</sup>                   | Loose<br>Baled <sup>o</sup> | H-3   | (100)                              | NA  | NA                               | (100)                              | NA   | NA                               | (20)                               | NA  |
|   | I                           | H-2 or H-3  | (1,000)                            | 120 <sup>d, e</sup>                           | -                                | (1,000)                            | 120 <sup>d</sup>                           | -                                | (200)                              | 30 <sup>d</sup>                           |
| Combustible   | IIIA                        | H-2 or H-3  | NA                                 | 330 <sup>d, e</sup>                           | NA                               | NA                                 | 330 <sup>d</sup>                           | NA                               | NA                                 | 80 <sup>d</sup>                           |
| liquid <sup>c, i</sup>                              | IIIB                        | NA  | NA.                                | 13,200 <sup>e, f</sup>                        | NA.                              | NA I                               | 13,200 <sup>f</sup>                        | NA.                              | 100                                | 3,300 <sup>f</sup>                        |
| Cryogenic<br>flammable                              | NA                          | H-2   | NA                                 | 45 <sup>d</sup>                               | NA                               | NA                                 | 45 <sup>d</sup>                            | NA                               | NA                                 | 10 <sup>d</sup>                           |
| Cryogenic   | NA                          | NA  | NA                                 | NA  | NL                               | NA                                 | NA   | NL                               | NA                                 | NA  |
| Cryogenic   | NA                          | H-3   | NA                                 | 45 <sup>d</sup>                               | NA                               | NA                                 | 45 <sup>d</sup>                            | NA                               | NA.                                | 10 <sup>d</sup>                           |
| oxidizing<br>Explosives                             | Division                    | H-1   | 1e.g                               | (1) <sup>e, g</sup>                           | NA                               | 0.25 <sup>g</sup>                  | (0.25) <sup>g</sup>                        | NA                               | 0.25 <sup>g</sup>                  | (0.25) <sup>g</sup>                       |
|   | 1.1<br>Division             | H-1   | 15.8                               | (1) <sup>e, g</sup>                           |                                  | 0.25 <sup>g</sup>                  | (0.25) <sup>g</sup>                        | - 2                              | 0.25 <sup>g</sup>                  | (0.25) <sup>g</sup>                       |
|   | 1.2<br>Division             | H-1 or H-2  | 10 <sup>e, g</sup>                 | (10) <sup>e, g</sup>                          |                                  | 1 <sup>g</sup>                     | (1) <sup>g</sup>                           |                                  | 1 <sup>g</sup>                     | (1) <sup>g</sup>                          |
|   | 1.3<br>Division             | Н-3   | 50 <sup>e, g</sup>                 | (50) <sup>e, g</sup>                          |                                  | 50 <sup>g</sup>                    | (50) <sup>g</sup>                          |                                  | NA                                 | NA  |
|   | 1.4<br>Division             | Н-3   | 125 <sup>e, 1</sup>                | NA  |                                  | NA                                 | NA   |                                  | NA                                 | NA  |
|   | 1.4G<br>Division            |   |                                    |   |                                  |                                    |  |                                  |                                    |   |
| Fiammaple<br>liquid,<br>combination<br>(IA, IB, IC) | 1.5<br>NA                   | H-1<br>H-2 or H-3   | 1 <sup>e,g</sup>                   | (1) <sup>e, g</sup><br>120 <sup>d, e, h</sup> | NA                               | 0.25 <sup>g</sup><br>NA            | (0.25) <sup>g</sup><br>120 <sup>d, h</sup> | NA                               | 0.25 <sup>g</sup>                  | (0.25) <sup>g</sup><br>30 <sup>d, h</sup> |
| Flammable   | NA                          | Н-3   | 125 <sup>d, e</sup>                | NA  | NA                               | 125 <sup>d</sup>                   | NA   | NA                               | 25 <sup>d</sup>                    | NA  |
|   | Gaseous                     | NA  | NA                                 | NA  | NL                               | NA                                 | NA   | NL                               | NA                                 | NA  |
| Inert gas   | Liquefied                   | NA  | NA                                 | NA  | NL                               | NA                                 | NA   | NL                               | NA                                 | NÁ  |
| -   | UD                          | H-1   | 1 <sup>e,g</sup>                   | (1) <sup>e, g</sup>                           |                                  | 0.25 <sup>g</sup>                  | (0.25) <sup>g</sup>                        | 1                                | 0.25 <sup>g</sup>                  | (0.25) <sup>8</sup>                       |
|   | 1                           | H-2   | 5 <sup>d, e</sup>                  | (5) <sup>d, e</sup>                           |                                  | 1 <sup>d</sup>                     | (1) <sup>d</sup>                           |                                  | 1 <sup>d</sup>                     | (1) <sup>d</sup>                          |
| Organic   | ji .                        | H-3   | 50 <sup>d, e</sup>                 | (50) <sup>d, e</sup>                          |                                  | 50 <sup>d</sup>                    | (50) <sup>d</sup>                          |                                  | 10 <sup>d</sup>                    | (10) <sup>d</sup>                         |
| peroxide  | m                           | H-3   | 125 <sup>d, e</sup>                | (125) <sup>d, e</sup>                         | NA                               | 125 <sup>d</sup>                   | (125) <sup>d</sup>                         | NA                               | 25 <sup>d</sup>                    | (25) <sup>d</sup>                         |
|   | IV                          | NA  | NL                                 | NL  |                                  | NL                                 | NL   |                                  | NL                                 | NL  |
|   | V                           | NA  | NL                                 | NL  | i                                | NL                                 | NL   | -                                | NL                                 | NL  |
|   | 4                           | H-1   | 18                                 | (1) <sup>e, g</sup>                           |                                  | 0.25 <sup>g</sup>                  | (0.25) <sup>g</sup>                        | ·                                | 0.25 <sup>g</sup>                  | (0.25) <sup>g</sup>                       |
|   | 3 <sup>k</sup>              | H-2 or H-3  | 10 <sup>d, e</sup>                 | (10) <sup>d, e</sup>                          |                                  | 2 <sup>d</sup>                     | (2) <sup>d</sup>                           |                                  | 2 <sup>d</sup>                     | (2) <sup>d</sup>                          |
| Oxidizer  | 2                           | H-3   | 250 <sup>d, e</sup>                | (250) <sup>d, e</sup>                         | NA                               | 250 <sup>d</sup>                   | (250) <sup>d</sup>                         | NA                               | 50 <sup>d</sup>                    | (50) <sup>d</sup>                         |
|   | 1                           | NA  | 4,000 <sup>e, f</sup>              | (4,000) <sup>e, f</sup>                       |                                  | 4,000 <sup>f</sup>                 | (4,000) <sup>f</sup>                       |                                  | 1,000 <sup>f</sup>                 | (1,000) <sup>f</sup>                      |
|   | Gaseous                     | 4.010   |                                    | NA  | 1,500 <sup>d,e</sup>             |                                    | NA   | 1,500 <sup>d,e</sup>             |                                    | 1.00                                      |
| Oxidizing gas                                       | Liquefied                   | H-3   | NA                                 | (150) <sup>d, e</sup>                         | NA                               | NĂ                                 | (150) <sup>d,e</sup>                       | NA                               | NA                                 | NA  |
| Pyrophoric  | NA                          | H-2   | 4 <sup>e, g</sup>                  | (4) <sup>e, g</sup>                           | 50 <sup>e, g</sup>               | 1g                                 | (1) <sup>g</sup>                           | 10 <sup>e, g</sup>               | 0                                  | 0   |
|   | 4                           | H-1   | 1 <sup>e, g</sup>                  | (1) <sup>e, g</sup>                           | 10 <sup>e, g</sup>               | 0.25 <sup>g</sup>                  | (0.25) <sup>g</sup>                        | 2 <sup>e, g</sup>                | 0.25 <sup>g</sup>                  | (0.25) <sup>g</sup>                       |
| Unstable  | 3                           | H-1 or H-2  | 5 <sup>d, e</sup>                  | (5) <sup>d, e</sup>                           | 50 <sup>d, e</sup>               | 14                                 | (1) <sup>d</sup>                           | 10 <sup>d, e</sup>               | 10                                 | (1) <sup>d</sup>                          |
| (reactive)  | 2                           | H-3   | 50 <sup>d, e</sup>                 | (50) <sup>d, e</sup>                          | 750 <sup>d, e</sup>              | 50 <sup>d</sup>                    | (50) <sup>d</sup>                          | 750 <sup>d, e</sup>              | 10 <sup>d</sup>                    | (10) <sup>d</sup>                         |
|   | 1                           | NA  | NL                                 | NL  | NL                               | NL                                 | NL   | NL                               | NL                                 | NL  |
|   | 3                           | H-2   | 5 <sup>d, e</sup>                  | (5) <sup>d, e</sup>                           |                                  | 5 <sup>d</sup>                     | (5) <sup>d</sup>                           |                                  | 1 <sup>d</sup>                     | (1) <sup>d</sup>                          |
| Water<br>reactive                                   | 2                           | H-3   | 50 <sup>d, e</sup>                 | (50) <sup>d, e</sup>                          | NA                               | 50 <sup>d</sup>                    | (50) <sup>d</sup>                          | NA                               | 10 <sup>d</sup>                    | (10) <sup>d</sup>                         |
| , LOCUYE  | 1                           | NA  | NL                                 | NL  | 1.11                             | NL                                 | NL   | 1.00                             | NL                                 | NL  |

| 1          | -                               | STORAGE <sup>b</sup>                          |  |                              | E-CLOSED SYST                              | EMS <sup>b</sup>                                     | USE-OPEN SYSTEMS <sup>b</sup> |  |  |
|------------|---------------------------------|---|--|------------------------------|--|--|-------------------------------|--|--|
| MATERIAL   | Solid<br>pounds <sup>d, e</sup> | Liquid<br>gallons<br>(pounds) <sup>d, e</sup> | Gas cubic<br>feet at<br>NTP<br>(pounds) <sup>d</sup> | Solid<br>pounds <sup>d</sup> | Liquid<br>gallons<br>(pounds) <sup>d</sup> | Gas cubic<br>feet at<br>NTP<br>(pounds) <sup>d</sup> | Solid<br>pounds <sup>d</sup>  | Liquid<br>gallons<br>(pounds) <sup>d</sup> |  |
|            | 5,000                           | 500   | Gaseous<br>810 <sup>e</sup>                          | 5,000                        | 5,000 500                                  | Gaseous<br>810 <sup>e</sup>                          | 1,000                         | 100  |  |
| Corrosives |                                 | 500   | Liquefied<br>(150)                                   |                              |  | Liquefied<br>(150)                                   |                               |  |  |
| Highly     | 10                              | 14.05   | Gaseous 20 <sup>g</sup>                              | 10                           | 110  | Gaseous 20 <sup>g</sup>                              | 2                             | (2)  |  |
| Toxic      | 10                              | 10 (10)                                       | Liquefied (4) <sup>g</sup>                           | 10                           | (10)                                       | Liquefied (4) <sup>g</sup>                           | 3                             | (3)  |  |
| Toxic      | 500                             |   | Gaseous<br>810 <sup>e</sup>                          | 500                          | 1700                                       | Gaseous<br>810 <sup>e</sup>                          |                               | (125)                                      |  |
|            |                                 | (500)   | Liquefied<br>(150) <sup>e</sup>                      |                              | (500)                                      | Liquefied<br>(150) <sup>e</sup>                      | 125                           |  |  |

[F] TABLE 307.1(2)

For SI: 1 cubic foot = 0.028 m<sup>3</sup>, 1 pound = 0.454 kg, 1 gallon = 3.785 L.

a. For use of control areas, see Section 414.2.

b. The aggregate quantity in use and storage shall not exceed the quantity specified for storage. c. In retail and wholesale sales occupancies, the quantities of medicines, foodstuffs or consumer products, and cosmetics containing not more than 50 percent by volume of water-miscible liquids and with the remainder of the

containers not exceeding 1.3 gallons. d. [SFM] In other than Group L occupancies, maximum allowable quantities shall be increased 100 percent in buildings equipped throughout with an approved automatic sprinkler system in accordance with Section 903.3.1.1. Where Note e also applies, the increase for both notes shall be applied accumulatively.

e. Maximum allowable quantities shall be increased 100 percent where stored in approved storage cabinets, gas cabinets or exhausted enclosures as specified in the California Fire Code. Where Note d also applies, the increase for both notes shall be applied accumulatively.

f. For storage and display quantities in Group M and storage quantities in Group S occupancies complying with Section 414.2.5, see Tables 414.2.5(1) and 414.2.5(2).

g. Allowed only where stored in approved exhausted gas cabinets or exhausted enclosures as specified in the California Fire Code.

h. Quantities in parentheses indicate quantity units in parentheses at the head of each column.

i. For gallons of liquids, divide the amount in pounds by 10 in accordance with Section 5003.1.2 of the California Fire

For SI: 1 cubic foot = 0.028 m<sup>3</sup>, 1 pound = 0.454 kg, 1 gallon = 3.785 L. volume of water-miscible liquids with the remainder of the solutions not being flammable, shall not be limited,

provided that such materials are packaged in individual containers not exceeding 1.3 gallons.

d. [SFM] In other than Group L occupancies, maximum allowable quantities shall be increased 100 percent in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1. Where Note e also applies, the increase for both notes shall be applied accumulatively.

e. Maximum allowable quantities shall be increased 100 percent when stored in approved storage cabinets, day boxes, gas cabinets, gas rooms or exhausted enclosures or in listed safety cans in accordance with Section 5003.9.10 of the California Fire Code. Where Note d also applies, the increase for both notes shall be applied accumulatively.

f. Quantities shall not be limited in a building equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.

g. Allowed only in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.

h. Containing not more than the maximum allowable quantity per control area of Class IA, IB or IC flammable liquids.

i. The maximum allowable quantity shall not apply to fuel oil storage complying with Section 605.4.2 of the California Fire Code.

j. Quantities in parentheses indicate quantity units in parentheses at the head of each column.

k. A maximum quantity of 220 pounds of solid or 22 gallons of liquid Class 3 oxidizers is allowed when such materials are necessary for maintenance purposes, operation or sanitation of equipment when the storage containers and the manner of storage are approved.

l. Net weight of the pyrotechnic composition of the fireworks. Where the net weight of the pyrotechnic composition of the fireworks is not known, 25 percent of the gross weight of the fireworks, including packaging, shall be used.

m. For gallons of liquids, divide the amount in pounds by 10 in accordance with Section 5003.1.2 of the California Fire Code.

n. For storage and display quantities in Group M and storage quantities in Group S occupancies complying with Section 414.2.5, see Tables 414.2.5(1) and 414.2.5(2).

o. Densely packed baled cotton that complies with the packing requirements of ISO 8115 shall not be included in this material class. p. The following shall not be included in determining the maximum allowable quantities:

1. Liquid or gaseous fuel in fuel tanks on vehicles.

2. Liquid or gaseous fuel in fuel tanks on motorized equipment operated in accordance with the California Fire Code.

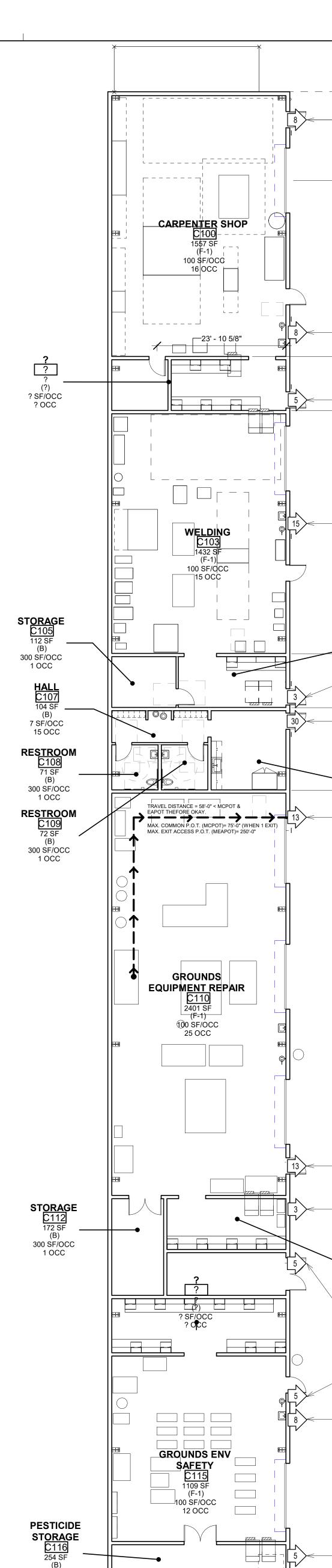
3. Gaseous fuels in piping systems and fixed appliances regulated by the International Fuel Gas Code.

4. Liquid fuels in piping systems and fixed appliances regulated by the California Mechanical Code.

5. Alcohol-based hand rubs classified as Class I or II liquids in dispensers that are installed in accordance with Sections 5705.5 and 5705.5.1 of the California Fire Code. The location of the alcohol-based hand rub (ABHR) dispensers shall be provided in the construction documents.

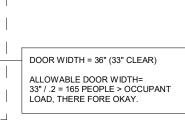
q. Where manufactured, generated or used in such a manner that the concentration and conditions create a fire or explosion hazard based on information prepared in accordance with Section 414.1.3.

solutions not being flammable, shall not be limited, provided that such materials are packaged in individual



150 SF/OCC

2 OCC



L \_



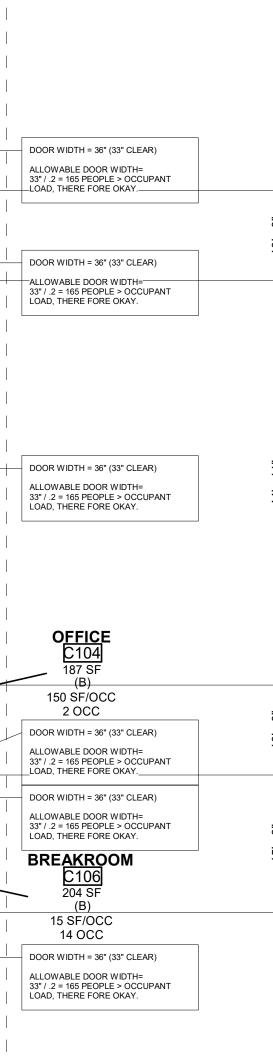
2 OCC DOOR WIDTH = 36" (33" CLEAR) ALLOWABLE DOOR WIDTH= 33" / .2 = 165 PEOPLE > OCCUPANT LOAD, THERE FORE OKAY.

33" / .2 = 165 PEOPLE > OCCUPANT LOAD, THERE FORE OKAY. OFFICE 207 SF (B)

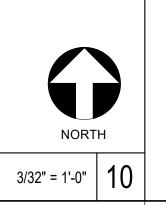
150 SF/OCC

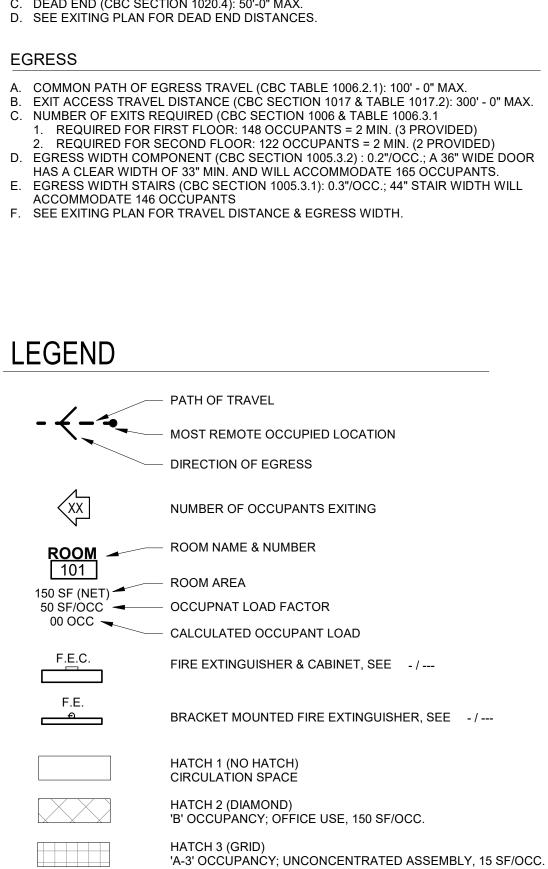
ALLOWABLE DOOR WIDTH= 33" / .2 = 165 PEOPLE > OCCUPANT LOAD, THERE FORE OKAY. DOOR WIDTH = 36" (33" CLEAR) ALLOWABLE DOOR WIDTH=

DOOR WIDTH = 36" (33" CLEAR)



\_\_\_\_\_DOOR WIDTH = 36" (33" CLEAR)\_\_\_\_\_ ALLOWABLE DOOR WIDTH= 33" / .2 = 165 PEOPLE > OCCUPANT LOAD, THERE FORE OKAY.





HATCH 4 (DIAGONAL)

F. SEE EXITING PLAN FOR TRAVEL DISTANCE & EGRESS WIDTH.

- C. DEAD END (CBC SECTION 1020.4): 50'-0" MAX. D. SEE EXITING PLAN FOR DEAD END DISTANCES.
- REQUIRED FOR SPRINKLERED BUILDING. B. CORRIDOR WIDTH (CBC TABLE 1020.2): 44" MIN.
- CORRIDOR CONSTRUCTION A. FIRE RESISTIVE RATING (CBC SECTION 1020 AND TABLE 1020.1): NONE
- 1. NONE REQUIRED BY THE CALIFORNIA BUILDING CODE.

### 3. ACTUAL AREA: ENCLOSED: 9,337 SF OVERHANGS: 2,219 SF 11,556 SF < 34,000 SF THEREFORE OKAY G. FIRE ALARM:

- 2. SINGLE OCCUPANCY ONE STORY BUILDING (CBC 506.2.1) a. Aa = At + (NS x lf) = 34,000 SF b. At = 36,000 SF (B, S-1), 34,000 SF (F-1 > GOVERNS), (CBC TABLE 506.2, S1 VALUE) c. NS = 8,500 SF (F-1 > GOVERNS), 9,000 SF (B, S-1) (CBC TABLE 506.2, NS VALUE) d. If = N/A
- 1. ALLOWABLE AREA (CBC 506) a. (ALLOWABLE AREA BASED ON NON-SEPARATED OCCUPANCIES PER CBC 508.3 WITH F-1 OCCUPANCY BEING THE MOST RESTRICTIVE, AND TYPE OF CONSTRUCTION INDICATED ABOVE)
- A. AREA:
- E. OCCUPANCY SEPARATION (CBC SECTION 508.3) 1. NON-SEPARATED
- 1. ALLOWABLE (CBC TABLE 504.4): 2 STORY (F-1, S-1), 3 STORY (B) 2. ACTUAL: 1 STORY
- 2. ACTUAL: 25'-0" D. HEIGHT IN STORIES:
- C. HEIGHT IN FEET: 1. ALLOWABLE (CBC TABLE 504.3): 60 FEET (B, F-1, S-1)
- 3. 'S-1', MODERATE-HAZARD STORAGE. B. CONSTRUCTION TYPE (CBC 602): TYPE VB, SPRINKLERED
- A. OCCUPANCY CLASSIFICATION(S) (CBC SECTION 302): 'B', BUSINES 2. 'F-1', MODERATE-HAZARD FACTORY INDUSTRIAL.

# BUILDING C

**BUILDING ANALYSIS** 

KEYNOTES 🚥



INDICATES AREA NOT IN ARCHITECTURAL SCOPE OF WORK

| MAXIMU  | M ALLOWABI           | LE QUANTITY PE                                     | R CONTRO                           | L AREA OF H                   | AZARDOU                          | S MATERIA                          | LS POSING A                   | PHYSICAL                         | HAZARD <sup>a, J</sup>             | . m, n, p                    |
|---|----------------------|--|------------------------------------|-------------------------------|----------------------------------|------------------------------------|-------------------------------|----------------------------------|------------------------------------|------------------------------|
| 7.1   |                      | GROUP<br>WHEN<br>THE                               |                                    | STORAGE <sup>b</sup>          |                                  | USE-0                              | CLOSED SYST                   | EMS <sup>b</sup>                 |                                    | OPEN<br>TEMS <sup>b</sup>    |
| MATERIAL  | CLASS                | MAXIMUM<br>ALLOWABLE<br>QUANTITY<br>IS<br>EXCEEDED | Solid<br>pounds<br>(cubic<br>feet) | Liquid<br>gallons<br>(pounds) | Gas<br>(cubic<br>feet at<br>NTP) | Solid<br>pounds<br>(cubic<br>feet) | Liquid<br>gallons<br>(pounds) | Gas<br>(cubic<br>feet at<br>NTP) | Solid<br>pounds<br>(cubic<br>feet) | Liquid<br>gallons<br>(pounds |
| Combustible<br>dust   | NA                   | H-2  | See<br>Note q                      | NA                            | NA                               | See<br>Note q                      | NA                            | NA                               | See<br>Note q                      | NA                           |
| Combustible   | Loose                | 11.2   | (100)                              |                               |                                  | (100)                              |                               |                                  | (20)                               |                              |
| fiber <sup>q</sup>  | Baled <sup>o</sup>   | H-3  | (1,000)                            | NA                            | NA                               | (1,000)                            | NA                            | NA                               | (200)                              | NA                           |
| and the second  | ji.                  | H-2 or H-3   |                                    | 120 <sup>d, e</sup>           | 100                              |                                    | 120 <sup>d</sup>              | -                                |                                    | 30 <sup>d</sup>              |
| Combustible<br>liquid <sup>c, i</sup>   | IIIA                 | H-2 or H-3   | NA                                 | 330 <sup>d, e</sup>           | NA                               | NA                                 | 330 <sup>d</sup>              | NA                               | NA                                 | 80 <sup>d</sup>              |
| -   | IIIB                 | NA   |                                    | 13,200 <sup>e, f</sup>        |                                  |                                    | 13,200 <sup>f</sup>           | -                                |                                    | 3,300 <sup>f</sup>           |
| Cryogenic<br>flammable  | NA                   | H-2  | NA                                 | 45 <sup>d</sup>               | NA                               | NA                                 | 45 <sup>d</sup>               | NA                               | NA                                 | 10 <sup>d</sup>              |
| Cryogenic<br>inert  | NA                   | NA   | NA                                 | NA                            | NL                               | NA                                 | NA                            | NL                               | NA                                 | NA                           |
| Cryogenic<br>oxidizing  | NA                   | H-3  | NA                                 | 45 <sup>d</sup>               | NA                               | NA                                 | 45 <sup>d</sup>               | NA                               | NA                                 | 10 <sup>d</sup>              |
| Explosives  | Division<br>1.1      | H-1  | 1 <sup>e,g</sup>                   | (1) <sup>e, g</sup>           | NA                               | 0.25 <sup>g</sup>                  | (0.25) <sup>g</sup>           | NA                               | 0.25 <sup>g</sup>                  | (0.25) <sup>g</sup>          |
|   | Division<br>1.2      | H-1  | 1e.g                               | (1) <sup>e, g</sup>           |                                  | 0.25 <sup>g</sup>                  | (0.25) <sup>g</sup>           |                                  | 0.25 <sup>g</sup>                  | (0.25) <sup>g</sup>          |
|   | Division<br>1.3      | H-1 or H-2   | 10 <sup>e, g</sup>                 | (10) <sup>e, g</sup>          |                                  | 1 <sup>g</sup>                     | .(1) <sup>g</sup>             |                                  | 18                                 | (1) <sup>g</sup>             |
|   | Division<br>1.4      | H-3  | 50 <sup>e, g</sup>                 | (50) <sup>e. g</sup>          |                                  | 50 <sup>g</sup>                    | (50) <sup>g</sup>             |                                  | NA                                 | NA                           |
|   | Division<br>1.4G     | Н-3  | 125 <sup>e, I</sup>                | NA                            |                                  | NA                                 | NA                            |                                  | NA                                 | NA                           |
|   | Division<br>1.5      | H-1  | 1e,g                               | (1) <sup>e, g</sup>           |                                  | 0.25 <sup>g</sup>                  | (0.25) <sup>g</sup>           |                                  | 0.25 <sup>g</sup>                  | (0.25) <sup>g</sup>          |
| Flammable<br>liquid,<br>combination<br>(IA, IB, IC)   | NA                   | H-2 or H-3   | NA                                 | 120 <sup>d, e, h</sup>        | NA                               | NA                                 | 120 <sup>d, h</sup>           | NA                               | NA                                 | 30 <sup>d, h</sup>           |
| Flammable<br>solid  | NA                   | Н-3  | 125 <sup>d, e</sup>                | NA                            | NA                               | 125 <sup>d</sup>                   | NA                            | NA                               | 25 <sup>d</sup>                    | NA                           |
| loort gor   | Gaseous              | NA   | NA                                 | NA                            | NL                               | NA                                 | NA                            | NL                               | NA                                 | NA                           |
| Inert gas   | Liquefied            | NA   | NA                                 | NA                            | NL                               | NA                                 | NA                            | NL                               | NA                                 | NA                           |
| 1.11  | UD                   | H-1  | 1 <sup>e,g</sup>                   | (1) <sup>e, g</sup>           |                                  | 0.25 <sup>g</sup>                  | (0.25) <sup>g</sup>           |                                  | 0.25 <sup>g</sup>                  | (0.25) <sup>8</sup>          |
|   | 1                    | H-2  | 5 <sup>d, e</sup>                  | (5) <sup>d, e</sup>           |                                  | 1 <sup>d</sup>                     | (1) <sup>d</sup>              |                                  | 1 <sup>d</sup>                     | (1) <sup>d</sup>             |
| Organic   | U.                   | H-3  | 50 <sup>d, e</sup>                 | (50) <sup>d, e</sup>          | NA                               | 50 <sup>d</sup>                    | (50) <sup>d</sup>             | NA                               | 10 <sup>d</sup>                    | (10) <sup>d</sup>            |
| peroxide  | - 00                 | H-3  | 125 <sup>d, e</sup>                | (125) <sup>d, e</sup>         |                                  | 125 <sup>d</sup>                   | (125) <sup>d</sup>            |                                  | 25 <sup>d</sup>                    | (25) <sup>d</sup>            |
|   | IV                   | NA   | NL                                 | NL                            |                                  | NL                                 | NL                            |                                  | NL                                 | NL                           |
|   | V                    | NA   | NL                                 | NL                            |                                  | NL                                 | NL                            |                                  | NL                                 | NL                           |
|   | 4                    | H-1  | 18                                 | (1) <sup>e, g</sup>           |                                  | 0.25 <sup>g</sup>                  | (0.25) <sup>g</sup>           | 1                                | 0.25 <sup>g</sup>                  | (0.25) <sup>g</sup>          |
| Oxidizer  | 3 <sup>k</sup>       | H-2 or H-3   | 10 <sup>d, e</sup>                 | (10) <sup>d, e</sup>          | NA                               | 2 <sup>d</sup>                     | (2) <sup>d</sup>              | NA                               | 2 <sup>d</sup>                     | (2) <sup>d</sup>             |
|   | 2                    | H-3  | 250 <sup>d, e</sup>                | (250) <sup>d, e</sup>         | 1.0                              | 250 <sup>d</sup>                   | (250) <sup>d</sup>            |                                  | 50 <sup>d</sup>                    | (50) <sup>d</sup>            |
| _   | 1                    | NA   | 4,000 <sup>e, f</sup>              | (4,000) <sup>e, f</sup>       |                                  | 4,000 <sup>f</sup>                 | (4,000) <sup>f</sup>          |                                  | 1,000 <sup>f</sup>                 | (1,000)                      |
| Oxidizing gas   | Gaseous<br>Liquefied | H-3  | NA                                 | NA<br>(150) <sup>d, e</sup>   | 1,500 <sup>d,e</sup><br>NA       | NA                                 | NA<br>(150) <sup>d,e</sup>    | 1,500 <sup>d,e</sup><br>NA       | NA                                 | NA                           |
| Pyrophoric  | NA                   | H-2  | 4 <sup>e, g</sup>                  | (4) <sup>e, g</sup>           | 50 <sup>e, g</sup>               | 1g                                 | (1) <sup>g</sup>              | 10 <sup>e, g</sup>               | 0                                  | 0                            |
|   | 4                    | H-1  | 1 <sup>e, g</sup>                  | (1) <sup>e, g</sup>           | 10 <sup>e, g</sup>               | 0.25 <sup>g</sup>                  | (0.25) <sup>g</sup>           | 2 <sup>e, g</sup>                | 0.25 <sup>g</sup>                  | (0.25) <sup>g</sup>          |
| Unstable  | 3                    | H-1 or H-2   | 5 <sup>d, e</sup>                  | (5) <sup>d, e</sup>           | 50 <sup>d, e</sup>               | 1d                                 | (1) <sup>d</sup>              | 10 <sup>d, e</sup>               | 10                                 | (1) <sup>d</sup>             |
| (reactive)  | 2                    | H-3  | 50 <sup>d, e</sup>                 | (50) <sup>d, e</sup>          | 750 <sup>d, e</sup>              | 50 <sup>d</sup>                    | (50) <sup>d</sup>             | 750 <sup>d, e</sup>              | 10 <sup>d</sup>                    | (10) <sup>d</sup>            |
|   | 1                    | NA   | NL                                 | NL                            | NL                               | NL                                 | NL                            | NL                               | NL                                 | NL                           |
| $\mathcal{I}_{\mathcal{I}}_{\mathcal{I}_{\mathcal{I}_{\mathcal{I}_{\mathcal{I}_{\mathcal{I}_{\mathcal{I}_{\mathcal{I}_{\mathcal{I}_{\mathcal{I}_{\mathcal{I}_{\mathcal{I}_{\mathcal{I}_{\mathcal{I}_{\mathcal{I}_{\mathcal{I}_{\mathcal{I}_{I}_{\mathcal{I}_{\mathcal{I}_{\mathcal{I}_{\mathcal{I}_{\mathcal{I}_{\mathcal{I}}_{\mathcal{I}}_{\mathcal{I}_{\mathcal{I}}}}}}}}}}$ | 3                    | H-2  | 5 <sup>d, e</sup>                  | (5) <sup>d, e</sup>           |                                  | 5 <sup>đ</sup>                     | (5) <sup>d</sup>              |                                  | 1 <sup>d</sup>                     | (1) <sup>d</sup>             |
| Water<br>reactive   | 2                    | H-3  | 50 <sup>d, e</sup>                 | (50) <sup>d, e</sup>          | NA                               | 50 <sup>d</sup>                    | (50) <sup>d</sup>             | NA                               | 10 <sup>d</sup>                    | (10) <sup>d</sup>            |
| reactive  | 1                    | NA   | NL                                 | NL                            |                                  | NL                                 | NL                            | 1                                | NL                                 | NL                           |

[F] TABLE 307.1(2)

|            |                                 | STORAGE <sup>b</sup>                          |  | US                           | E-CLOSED SYST                              | EMS <sup>b</sup>                                     | USE  |
|------------|---------------------------------|---|--|------------------------------|--|--|------|
| MATERIAL   | Solid<br>pounds <sup>d, e</sup> | Liquid<br>gallons<br>(pounds) <sup>d, e</sup> | Gas cubic<br>feet at<br>NTP<br>(pounds) <sup>d</sup> | Solid<br>pounds <sup>d</sup> | Liquid<br>gallons<br>(pounds) <sup>d</sup> | Gas cubic<br>feet at<br>NTP<br>(pounds) <sup>d</sup> | Soli |
| Constant   | 5 000                           | 500   | Gaseous<br>810 <sup>e</sup>                          | 5 000                        | 500  | Gaseous<br>810 <sup>e</sup>                          | 1.00 |
| Corrosives | 5,000                           | 500   | Liquefied<br>(150)                                   | 5,000                        | 500  | Liquefied<br>(150)                                   | 1,00 |
| Highly     | 10                              |   | Gaseous 20 <sup>g</sup>                              | 10                           | (4.0)                                      | Gaseous 20 <sup>g</sup>                              | 2    |
| Toxic      | 10                              | (10)  | Liquefied (4) <sup>g</sup>                           | 10                           | (10)                                       | Liquefied (4) <sup>g</sup>                           | 3    |
| Tools      |                                 | (500)   | Gaseous<br>810 <sup>e</sup>                          | 500                          | (500)                                      | Gaseous<br>810 <sup>e</sup>                          | 105  |
| Toxic      | 500                             | (500)   | Liquefied<br>(150) <sup>e</sup>                      | 500                          | (500)<br>Liquefied<br>(150) <sup>e</sup>   | 125  |      |

For SI: 1 cubic foot = 0.028 m<sup>3</sup>, 1 pound = 0.454 kg, 1 gallon = 3.785 L.

a. For use of control areas, see Section 414.2.

b. The aggregate quantity in use and storage shall not exceed the quantity specified for storage. c. In retail and wholesale sales occupancies, the quantities of medicines, foodstuffs or consumer products, and cosmetics containing not more than 50 percent by volume of water-miscible liquids and with the remainder of the

containers not exceeding 1.3 gallons. d. [SFM] In other than Group L occupancies, maximum allowable quantities shall be increased 100 percent in buildings equipped throughout with an approved automatic sprinkler system in accordance with Section 903.3.1.1. Where Note e also applies, the increase for both notes shall be applied accumulatively.

e. Maximum allowable quantities shall be increased 100 percent where stored in approved storage cabinets, gas cabinets or exhausted enclosures as specified in the California Fire Code. Where Note d also applies, the increase for both notes shall be applied accumulatively.

f. For storage and display quantities in Group M and storage quantities in Group S occupancies complying with Section 414.2.5, see Tables 414.2.5(1) and 414.2.5(2).

g. Allowed only where stored in approved exhausted gas cabinets or exhausted enclosures as specified in the California Fire Code.

h. Quantities in parentheses indicate quantity units in parentheses at the head of each column.

i. For gallons of liquids, divide the amount in pounds by 10 in accordance with Section 5003.1.2 of the California Fire

For SI: 1 cubic foot = 0.028 m<sup>3</sup>, 1 pound = 0.454 kg, 1 gallon = 3.785 L. volume of water-miscible liquids with the remainder of the solutions not being flammable, shall not be limited,

provided that such materials are packaged in individual containers not exceeding 1.3 gallons. d. [SFM] In other than Group L occupancies, maximum allowable quantities shall be increased 100 percent in buildings

equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1. Where Note e also applies, the increase for both notes shall be applied accumulatively.

e. Maximum allowable quantities shall be increased 100 percent when stored in approved storage cabinets, day boxes, gas cabinets, gas rooms or exhausted enclosures or in listed safety cans in accordance with Section 5003.9.10 of the California Fire Code. Where Note d also applies, the increase for both notes shall be applied accumulatively.

f. Quantities shall not be limited in a building equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.

g. Allowed only in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.

h. Containing not more than the maximum allowable quantity per control area of Class IA, IB or IC flammable liquids.

i. The maximum allowable quantity shall not apply to fuel oil storage complying with Section 605.4.2 of the California Fire Code.

j. Quantities in parentheses indicate quantity units in parentheses at the head of each column.

k. A maximum quantity of 220 pounds of solid or 22 gallons of liquid Class 3 oxidizers is allowed when such materials are necessary for maintenance purposes, operation or sanitation of equipment when the storage containers and the manner of storage are approved.

I. Net weight of the pyrotechnic composition of the fireworks. Where the net weight of the pyrotechnic composition of the fireworks is not known, 25 percent of the gross weight of the fireworks, including packaging, shall be used.

m. For gallons of liquids, divide the amount in pounds by 10 in accordance with Section 5003.1.2 of the California Fire Code.

n. For storage and display quantities in Group M and storage quantities in Group S occupancies complying with Section 414.2.5, see Tables 414.2.5(1) and 414.2.5(2).

o. Densely packed baled cotton that complies with the packing requirements of ISO 8115 shall not be included in this material class.

p. The following shall not be included in determining the maximum allowable quantities:

1. Liquid or gaseous fuel in fuel tanks on vehicles.

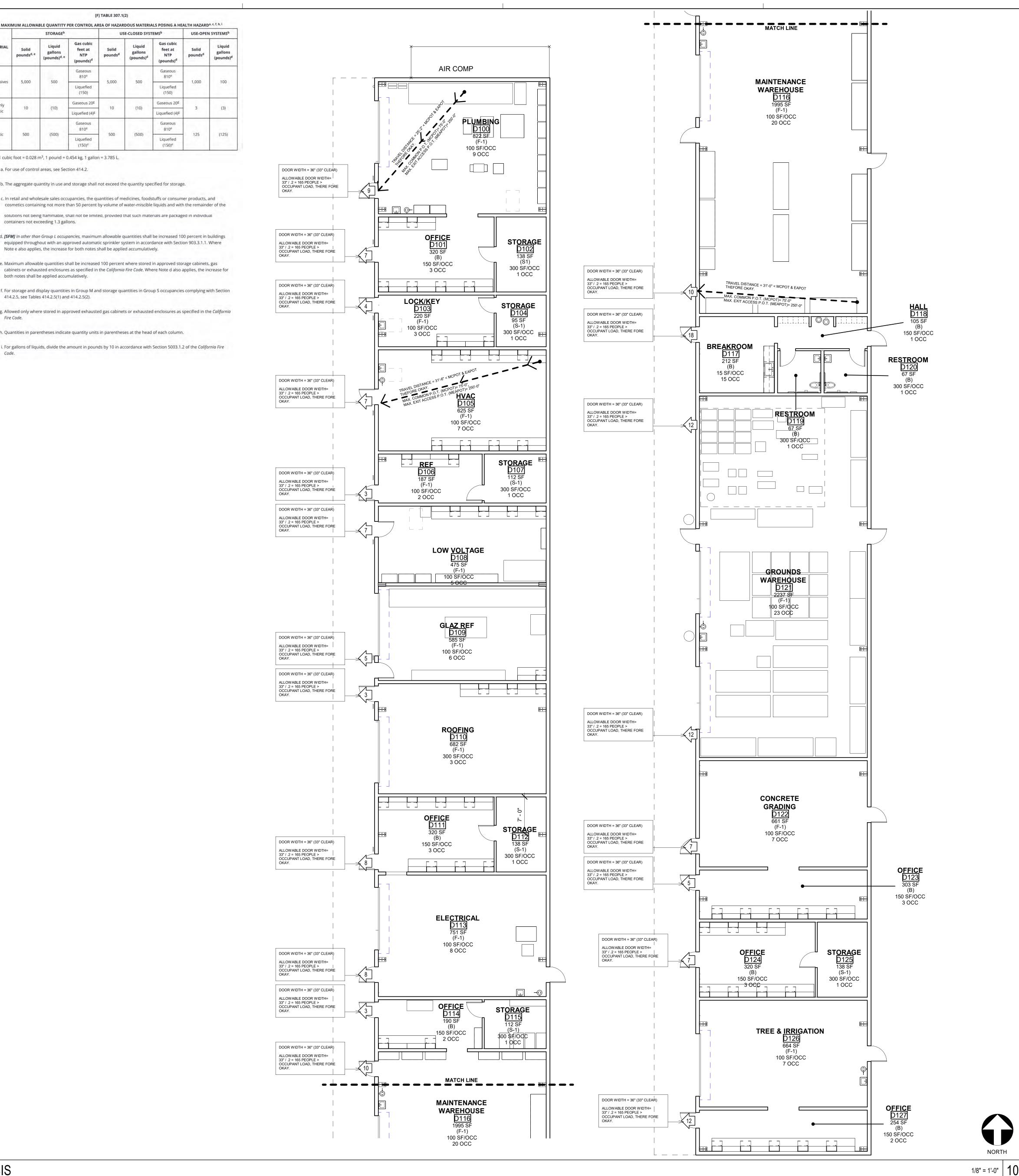
2. Liquid or gaseous fuel in fuel tanks on motorized equipment operated in accordance with the California Fire Code.

3. Gaseous fuels in piping systems and fixed appliances regulated by the International Fuel Gas Code.

4. Liquid fuels in piping systems and fixed appliances regulated by the California Mechanical Code.

5. Alcohol-based hand rubs classified as Class I or II liquids in dispensers that are installed in accordance with Sections 5705.5 and 5705.5.1 of the California Fire Code. The location of the alcohol-based hand rub (ABHR) dispensers shall be provided in the construction documents.

q. Where manufactured, generated or used in such a manner that the concentration and conditions create a fire or explosion hazard based on information prepared in accordance with Section 414.1.3.



KEYNOTES 🚥

# **BUILDING CODE ANALYSIS**

**BUILDING ANALYSIS** 

- BUILDING D A. OCCUPANCY CLASSIFICATION(S) (CBC SECTION 302): 1. 'B', BUSINESS
- 2. 'F-1', MODERATE-HAZARD FACTORY INDUSTRIAL. 3. 'S-1', MODERATE-HAZARD STORAGE.
- B. CONSTRUCTION TYPE (CBC 602): TYPE VB, SPRINKLERED C. HEIGHT IN FEET:
- 1. ALLOWABLE (CBC TABLE 504.3): 60 FEET (B, F-1, S-1) 2. ACTUAL: 25'-0"
- D. HEIGHT IN STORIES: 1. ALLOWABLE (CBC TABLE 504.4): 2 STORY (F-1, S-1), 3 STORY (B) 2. ACTUAL: 1 STORY
- E. OCCUPANCY SEPARATION (CBC SECTION 508.3) 1. NON-SEPARATED

# A. AREA:

- 1. ALLOWABLE AREA (CBC 506) a. (ALLOWABLE AREA BASÉD ON NON-SEPARATED OCCUPANCIES PER CBC 508.3 WITH F-1 OCCUPANCY BEING THE MOST RESTRICTIVE, AND TYPE OF CONSTRUCTION INDICATED ABOVE)
- 2. SINGLE OCCUPANCY ONE STORY BUILDING (CBC 506.2.1) a. Aa = At + (NS x If) = 34,000 SF b. At = 36,000 SF (B, S-1), 34,000 SF (F-1 > GOVERNS), (CBC TABLE 506.2, S1 VALUE)
- c. NS = 8,500 SF (F-1 > GOVERNS), 9,000 SF (B, S-1) (CBC TABLE 506.2, NS VALUE) d. If = N/A 3. ACTUAL AREA:
- ENCLOSED: 13,818 SF **OVERHANGS:** 6,567 SF 20,385 SF < 34,000 SF THEREFORE OKAY
- G. FIRE ALARM:
- 1. NONE REQUIRED BY THE CALIFORNIA BUILDING CODE.

CORRIDOR CONSTRUCTION

- A. FIRE RESISTIVE RATING (CBC SECTION 1020 AND TABLE 1020.1): NONE REQUIRED FOR SPRINKLERED BUILDING.
- B. CORRIDOR WIDTH (CBC TABLE 1020.2): 44" MIN. . DEAD END (CBC SECTION 1020.4): 50'-0" MAX.
- D. SEE EXITING PLAN FOR DEAD END DISTANCES.
- EGRESS
- A. COMMON PATH OF EGRESS TRAVEL (CBC TABLE 1006.2.1): 100' 0" MAX. B. EXIT ACCESS TRAVEL DISTANCE (CBC SECTION 1017 & TABLE 1017.2): 300' - 0" MAX. C. NUMBER OF EXITS REQUIRED (CBC SECTION 1006 & TABLE 1006.3.1 1. REQUIRED FOR FIRST FLOOR: 148 OCCUPANTS = 2 MIN. (3 PROVIDED)
- 2. REQUIRED FOR SECOND FLOOR: 122 OCCUPANTS = 2 MIN. (2 PROVIDED) D. EGRESS WIDTH COMPONENT (CBC SECTION 1005.3.2) : 0.2"/OCC.; A 36" WIDE DOOR
- HAS A CLEAR WIDTH OF 33" MIN. AND WILL ACCOMMODATE 165 OCCUPANTS.
- E. EGRESS WIDTH STAIRS (CBC SECTION 1005.3.1): 0.3"/OCC.; 44" STAIR WIDTH WILL ACCOMMODATE 146 OCCUPANTS F. SEE EXITING PLAN FOR TRAVEL DISTANCE & EGRESS WIDTH.

# LEGEND

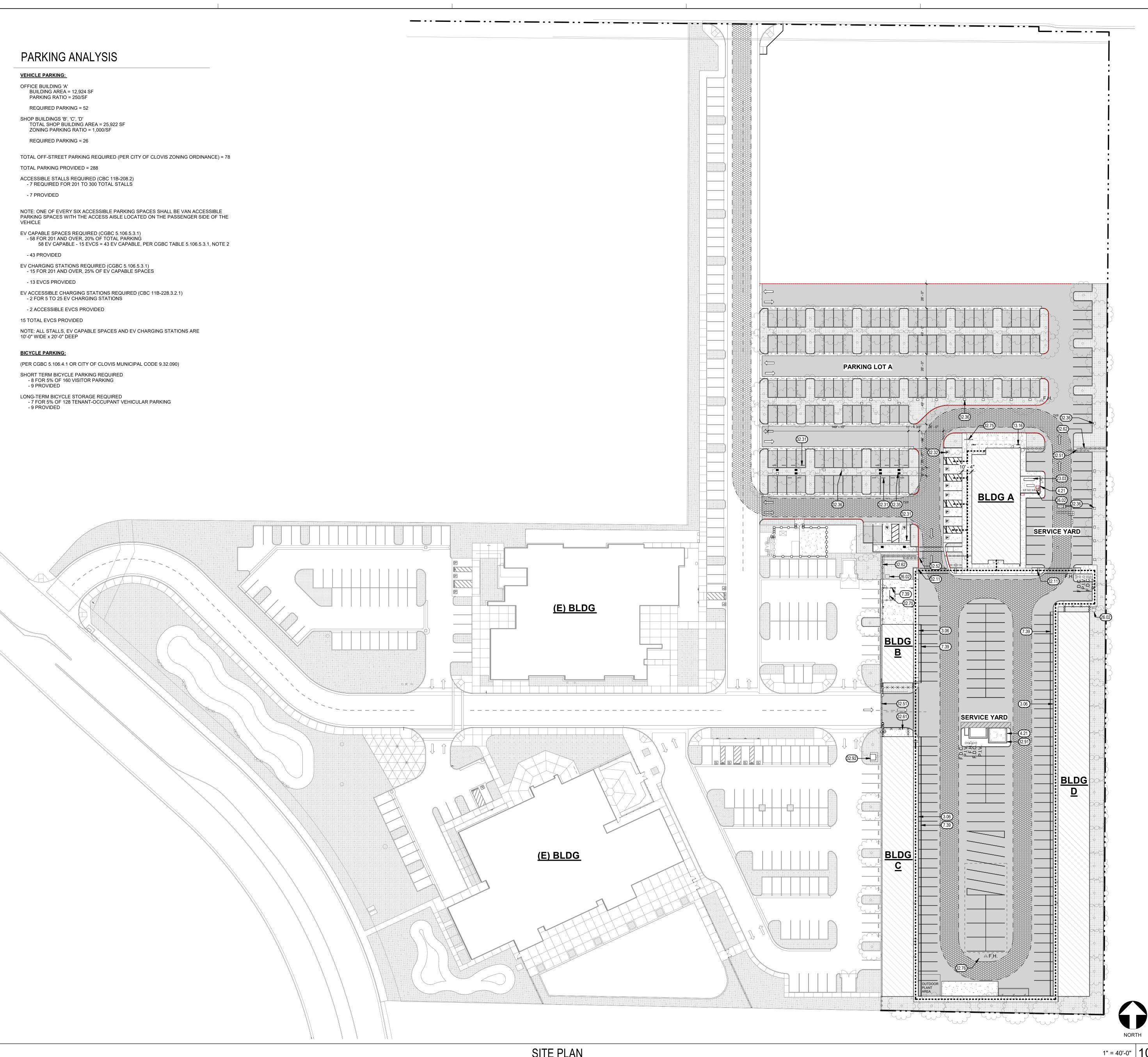
- PATH OF TRAVEL - + - \*•\_ — MOST REMOTE OCCUPIED LOCATION DIRECTION OF EGRESS NUMBER OF OCCUPANTS EXITING ROOM ROOM NAME & NUMBER 101 — ROOM AREA 150 SF (NET) 50 SF/ÒCC - OCCUPNAT LOAD FACTOR 00 00C 🔫 CALCULATED OCCUPANT LOAD F.E.C. FIRE EXTINGUISHER & CABINET, SEE - / ---F.E. BRACKET MOUNTED FIRE EXTINGUISHER, SEE - / ---HATCH 1 (NO HATCH) CIRCULATION SPACE
- - HATCH 2 (DIAMOND) 'B' OCCUPANCY; OFFICE USE, 150 SF/OCC. HATCH 3 (GRID) 'A-3' OCCÙPANĆY; UNCONCENTRATED ASSEMBLY, 15 SF/OCC.
  - HATCH 4 (DIAGONAL) INDICATES AREA NOT IN ARCHITECTURAL SCOPE OF WORK



- ZONING PARKING RATIO = 1,000/SF REQUIRED PARKING = 26

- 7 PROVIDED

- 8 FOR 5% OF 160 VISITOR PARKING



### KEYNOTES 🚥

| 3.06  | 6" ROLLED CURB  |
|-------|---|
| 4.21  | CMU WALL  |
| 7.39  | DASHED LINE DENOTES EXTERIOR AWNING ABOVE                               |
| 13.16 | METAL BUILDING COLUMN   |
| 23.03 | GROUND MOUNTED MECHANICAL EQUIPMENT, SEE MECHANICAL                     |
| 26.02 | TRANSFORMER, SEE ELECTRICAL   |
| 32.11 | DETECTABLE WARNING SURFACE  |
| 32.31 | CONCRETE WHEEL STOP, SEE XX/XXX   |
| 32.32 | ACCESSIBLE PARKING STALL SIGNAGE, SEE XX/XXX                            |
| 32.35 | ELECTRIC VEHICLE CHARGING STATIONS, SEE ELECTRICAL                      |
| 32.36 | PULLBOX FUTURE ELECTRIC VEHICLE CHARGING STATIONS, SEE ELECTRICAL       |
| 32.51 | 30' WIDE AUTOMATIC GATE, PER CITY OF CLOVIS FIRE DEPT.<br>STANDARD #1.5 |
| 32.52 | 28' WIDE AUTOMATIC GATE, PER CITY OF CLOVIS FIRE DEPT.<br>STANDARD #1.5 |
|       |   |

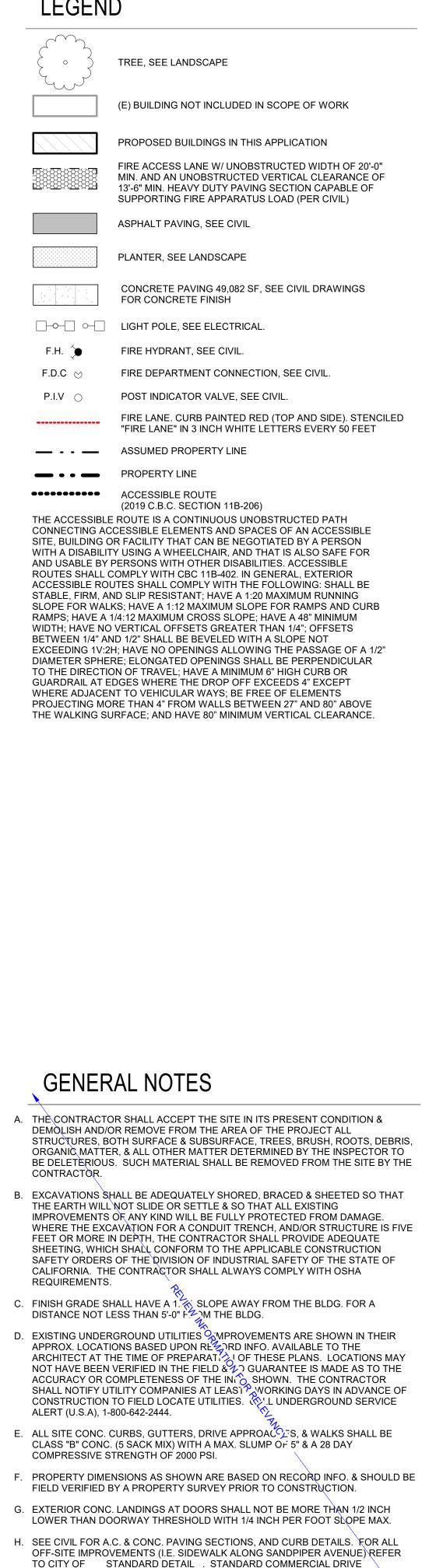
32.61 CHAIN LINK FENCING

32.62 DECORATIVE METAL FENCING 32.75 (9) BICYCLE PERMANENTLY ANCHORED RACK

32.92 DUST COLLECTOR, SEE MECHANICAL

32.76 MANUFACTURED BOLLARD, SEE XX/XXX 32.91 TRASH ENCLOSURES PER CITY OF CLOVIS STANDARDS, SEE XX/XX

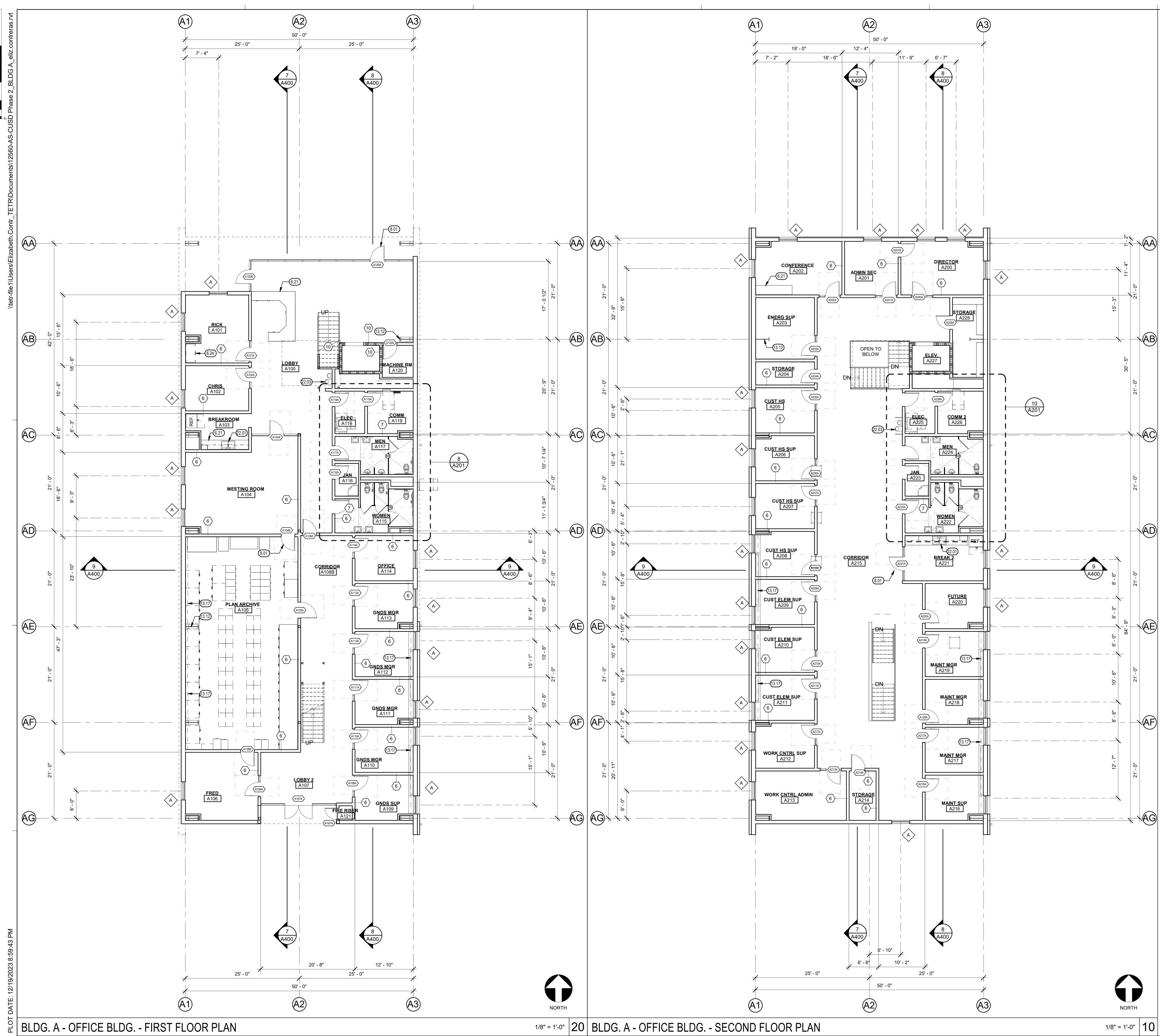
# LEGEND



APPROACH PER CITY OF MERCED STANDARD DETAILS D-7, D-8 AND D-9. REFER TO CIVIL, LANDSCAPE, PLUMBING & ELECTRICAL FOR UTILITY INFORMATION. CONTRACTOR TO COORDINATE ALL TRADES TO MAINTAIN PROPER CLEARANCES & AVOID CONFLICTS.

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- 6.21 PLASTIC LAMINATE CASEWORK, SEE INTERIOR ELEVATIONS 6.24 PLASTIC LAMINATE TALL STORAGE CABINET, SEE INTERIOR ELEVATIONS
- 8.01 DOOR AND FRAME AS SCHEDULED 13.12 EXPOSED METAL BUILDING FRAME, PAINT
- 13.17 BRACE FRAME 6" OFFSET FROM OUTDSIDE FLANGE, SEE STRUCTURAL
- 22.01 ACCESSIBLE PLUMBING FIXTURE, SEE PLUMBING 22.03 HIGH-LOW DRINKING FOUNTAIN, SEE PLUMBING, AND XX/XXX

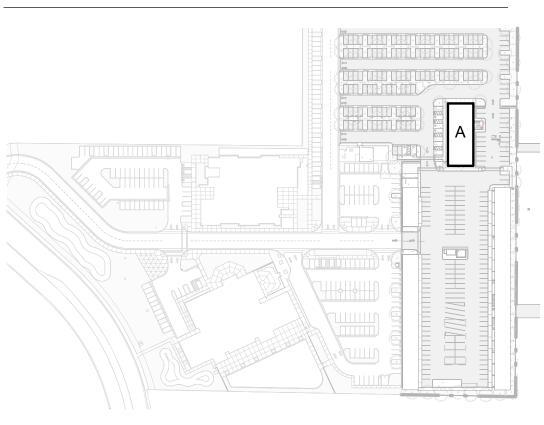
# LEGEND

|                             | 30"X48" WHEELCHAIR CLEAR SPACE   |
|-----------------------------|--|
|                             | 60" DIAMETER WHEELCHAIR TURN AROUND SPACE                                  |
|                             | WALL SIGNAGE, SEE - /  |
| 201A                        | DOOR REFERENCE<br>SEE DOOR SCHEDULE ON SHEET A7XX                          |
| $\langle \! x \! x \rangle$ | WINDOW REFERENCE<br>SEE WINDOW SCHEDULE ON SHEET A7XX                      |
| F.E.C.                      | FIRE EXTINGUISHER & CABINET, SEE - /                                       |
| F.E.                        | BRACKET MOUNTED FIRE EXTINGUISHER, SEE                                     |
|                             | LETTER DESIGNATION INDICATES FRAMING<br>CONDITIONS, SEE SHEET A001         |
| #                           | WALL TYPE REFERENCE, SEE SHEET A001<br>(NUMBER REFERS TO DETAIL REFERENCE) |
|                             |  |

# GENERAL NOTES

- A. FOR TYP. INFO. REGARDING ACCESSIBLE CLEARANCES, AND FIXTURE MOUNTING HEIGHTS, SEE \_ / ---B. FOR TYPICAL CASEWORK ANCHORAGE , SEE \_ / ---
- C. PROVIDE FIRE EXTINGUISHER: CLASS 2A: 10B:C MIN. PER NFPA 10, ONE FOR EVERY 3,000 S.F. OR PORTION THEREOF & TRAVEL DISTANCE NOT TO EXCEED 75'-0".
- D. ALL DIMENSIONS TO FACE OF STUD, U.N.O.
- TYP. INTERIOR WALL FINISH FOR STUD WALLS: 5/8" TYPE 'X' GYP. BD., WATER RESISTANT TYPE IN RESTROOMS WHERE LOCATED WITHIN 2'-0" OF THE FRONT AND/OR SIDES OF PLUMBING FIXT. GYP. BD. APPLICATION SHALL COMPLY w/ CBC SECTION 2508. GYP. BD. SHALL BE FASTENED TO SUPPORTS w/ SCREWS.
- F. BRACE ALL PARTITIONS TO STUDS @ 6'-0" O.C. OR TO WALL MIDPOINT @ 45 DEGREES & PERPENDICULAR TO WALL. SEE & /--- /---G. ACOUSTICAL INSULATION: ALL INTERIOR STUD WALLS OF THE FOLLOWING
- SPACES SHALL BE INSULATED w/ ACOUSTICAL INSULATION: a. FOR ACOUSTICAL WALL DETAIL, SEE - / ----
- b. ALL WALLS & CEILING OF: PRIVATE OFFICES, ELECTRICAL/ MECH. ROOMS, TOILET ROOMS, EXAM ROOMS, PROCEDURE ROOMS & CONFERENCE ROOMS
- H. DIMENSIONS WITH "MIN.","CLR.", OR "ABSOLUTE" IS MEASURED FROM FACE
- OF WALL FINISH. I. FOR DOOR CLEARNCES, SEE
- J. FOR TYPICAL ACCESSIBLE DESK KINEE SPACE, SEE
- K. ALL MANUFACTURER REQUIRED TESTING, CORRECTIVE MEASURES, AND PREPARATIONS WITH REGARD TO THE EXISTING CONCRETE SLAB, INCLUDING PATCHED AREAS, SHALL BE INCLUDED AND PERFORMED.





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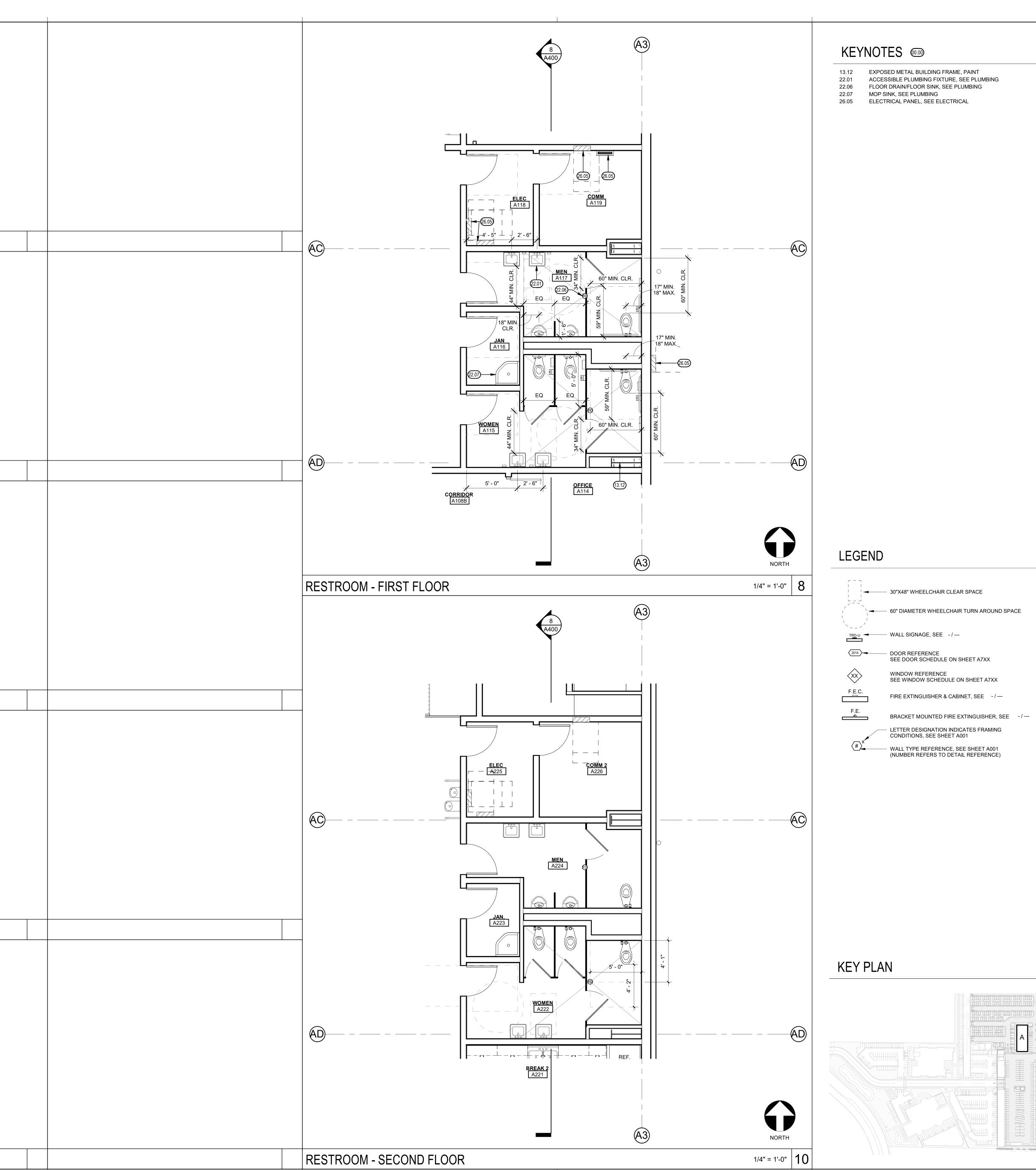
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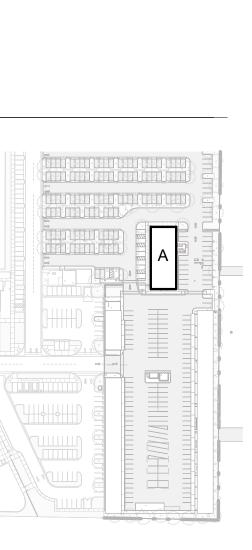
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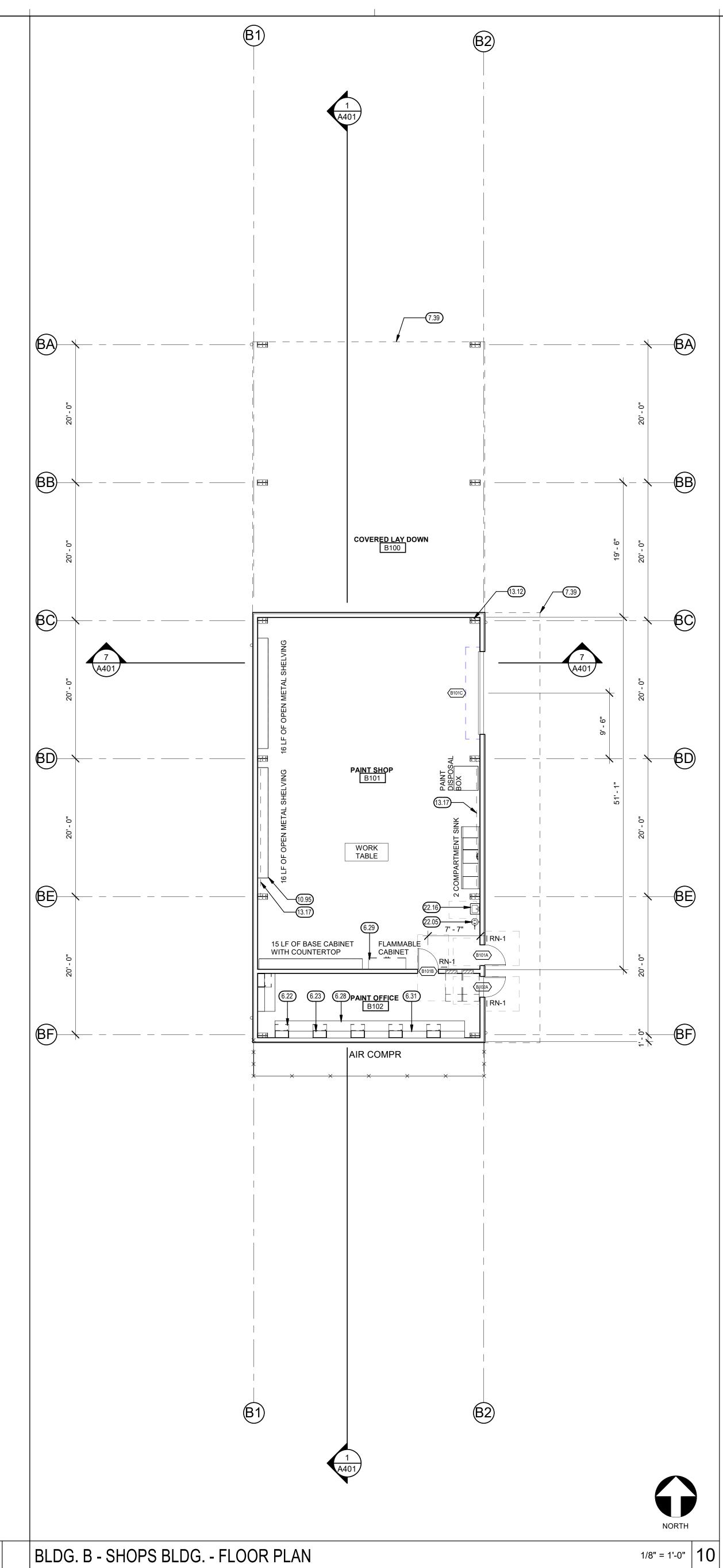
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| 6.22  | PLASTIC LAMINATE BASE CABINET, SEE INTERIOR ELEVA          |
|-------|--|
| 6.23  | PLASTIC LAMINATE UPPER CABINET, SEE INTERIOR ELEV          |
| 6.28  | SOLID SURFACE COUNTER TOP                                  |
| 6.29  | CHEMICAL AND FLAMMABLE STORAGE                             |
| 6.31  | OPEN SHELVING, SEE INTERIOR ELEVATIONS                     |
| 7.39  | DASHED LINE DENOTES EXTERIOR AWNING ABOVE                  |
| 10.95 | 18" DEEP METAL STORAGE OPEN SHELVING                       |
| 13.12 | EXPOSED METAL BUILDING FRAME, PAINT                        |
| 13.17 | BRACE FRAME 6" OFFSET FROM OUTDSIDE FLANGE, SEE STRUCTURAL |
| 22.05 | EMERGENCY EYE WASH/SHOWER, SEE PLUMBING                    |
| 22.16 |  |
|       |  |

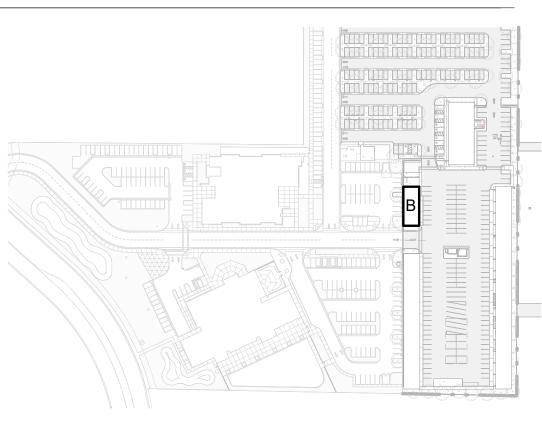
# LEGEND

|   | 30"X48" WHEELCHAIR CLEAR SPACE   |
|---|--|
|   | 60" DIAMETER WHEELCHAIR TURN AROUND SPACE                                  |
|   | WALL SIGNAGE, SEE - /  |
| 201A  | DOOR REFERENCE<br>SEE DOOR SCHEDULE ON SHEET A7XX                          |
| $\langle \! \! \times \! \! \times \! \! \rangle$ | WINDOW REFERENCE<br>SEE WINDOW SCHEDULE ON SHEET A7XX                      |
| F.E.C.  | FIRE EXTINGUISHER & CABINET, SEE - /                                       |
| F.E.  | BRACKET MOUNTED FIRE EXTINGUISHER, SEE -/                                  |
|   | LETTER DESIGNATION INDICATES FRAMING<br>CONDITIONS, SEE SHEET A001         |
| #   | WALL TYPE REFERENCE, SEE SHEET A001<br>(NUMBER REFERS TO DETAIL REFERENCE) |

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- B. FOR TYPICAL CASEWORK ANCHORAGE , SEE \_ / ---C. PROVIDE FIRE EXTINGUISHER: CLASS 2A: 10B:C MIN. PER NFPA 10, ONE FOR EVERY 3,000 S.F. OR PORTION THEREOF & TRAVEL DISTANCE NOT TO
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- H. DIMENSIONS WITH "MIN.", "CLR.", OR "ABSOLUTE" IS MEASURED FROM FACE
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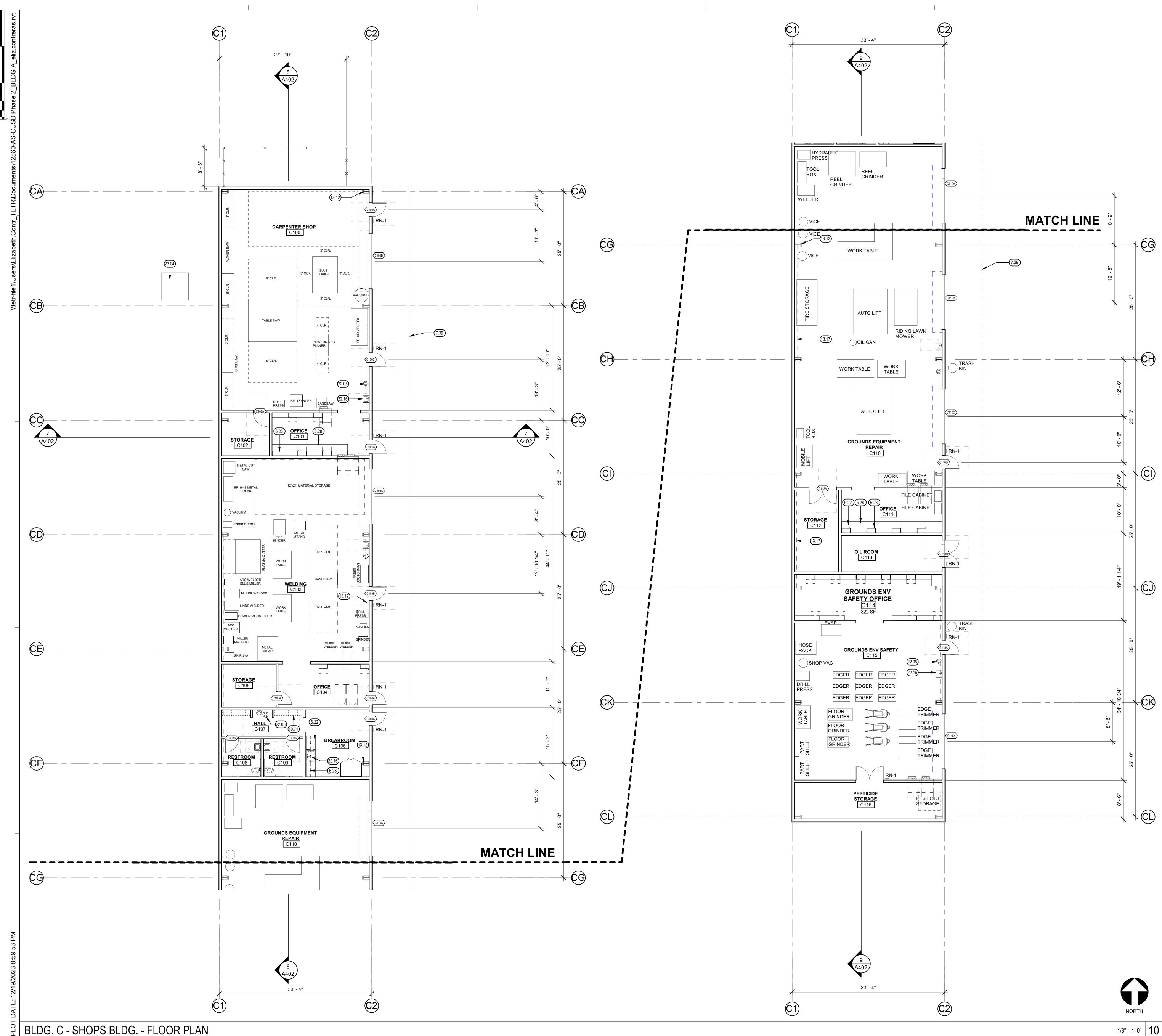
# KEY PLAN



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| 6.22  | PLASTIC LAMINATE BASE CABINET, SEE INTERIOR ELEVATIONS        |
|-------|---|
| 5.23  | PLASTIC LAMINATE UPPER CABINET, SEE INTERIOR ELEVATIONS       |
| 5.28  | SOLID SURFACE COUNTER TOP                                     |
| 7.39  | DASHED LINE DENOTES EXTERIOR AWNING ABOVE                     |
| 10.71 | LOCKERS (PERSONAL STORAGE)                                    |
| 13.12 | EXPOSED METAL BUILDING FRAME, PAINT                           |
| 13.17 | BRACE FRAME 6" OFFSET FROM OUTDSIDE FLANGE, SEE<br>STRUCTURAL |
| 22.03 | HIGH-LOW DRINKING FOUNTAIN, SEE PLUMBING, AND XX/XXX          |
| 22.05 | EMERGENCY EYE WASH/SHOWER, SEE PLUMBING                       |
| 22.16 |   |
| 23.04 | MECHANICAL EQUIPMENT, SEE MECHANICAL                          |
|       |   |

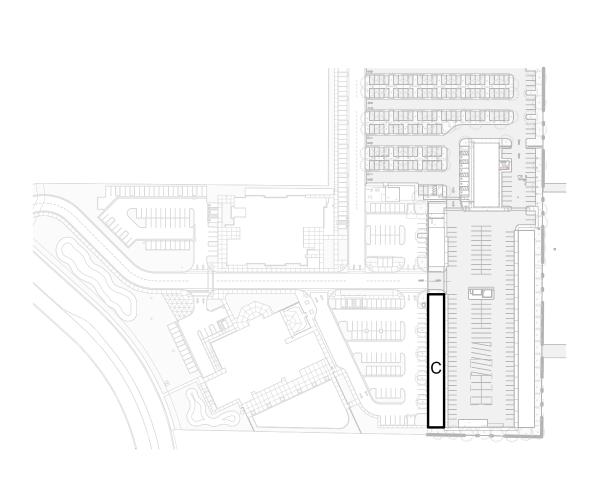
# LEGEND

| 30"X48" WHEELCHAIR CLEAR SPACE   |
|--|
| 60" DIAMETER WHEELCHAIR TURN AROUND SPA                                    |
| WALL SIGNAGE, SEE - /  |
| DOOR REFERENCE<br>SEE DOOR SCHEDULE ON SHEET A7XX                          |
| WINDOW REFERENCE<br>SEE WINDOW SCHEDULE ON SHEET A7XX                      |
| FIRE EXTINGUISHER & CABINET, SEE - /                                       |
| BRACKET MOUNTED FIRE EXTINGUISHER, SEE                                     |
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# KEY PLAN

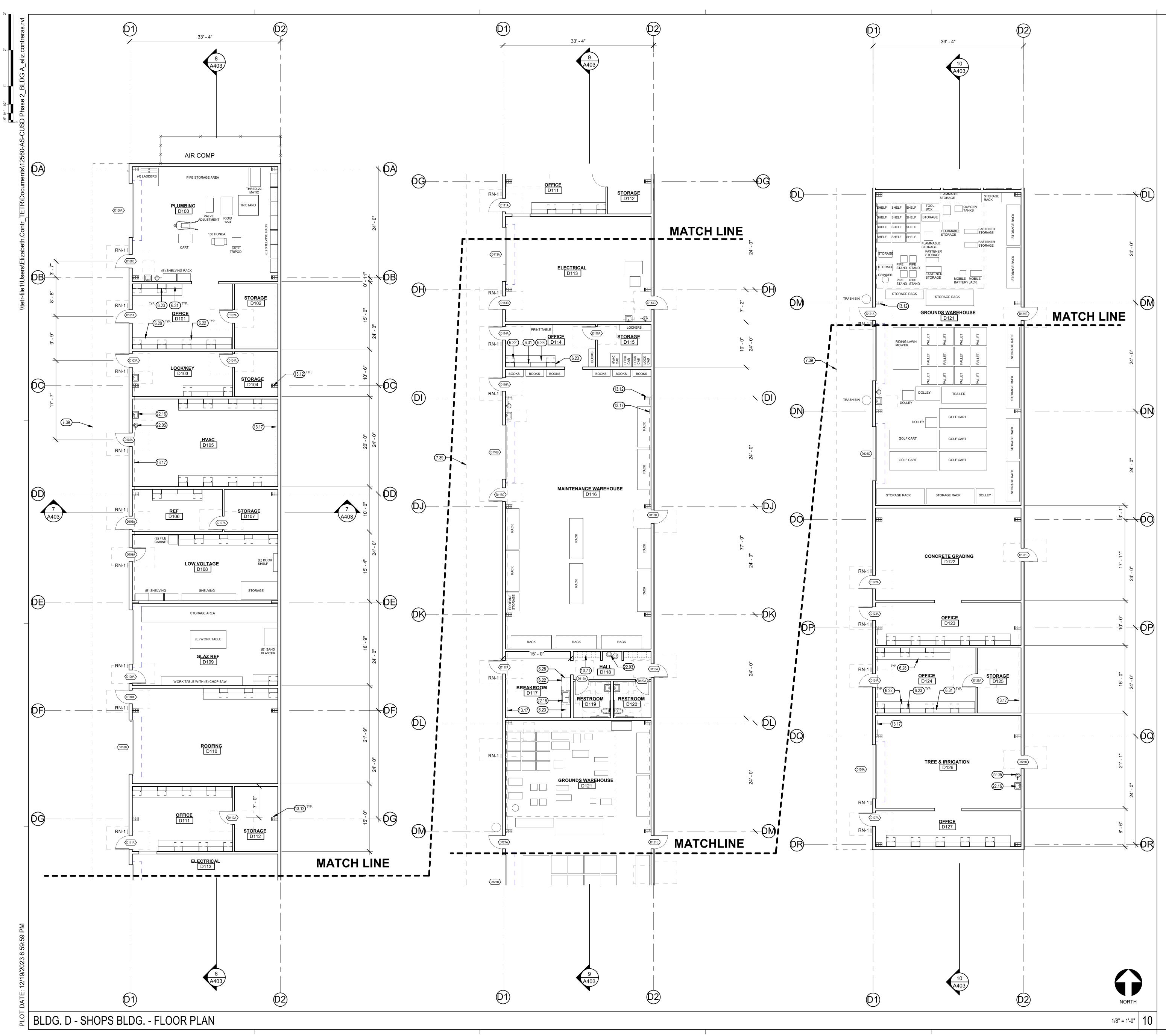


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- PLASTIC LAMINATE BASE CABINET, SEE INTERIOR ELEVATIONS 6.22 PLASTIC LAMINATE UPPER CABINET, SEE INTERIOR ELEVATIONS 6.23
- SOLID SURFACE COUNTER TOP 6.28 OPEN SHELVING, SEE INTERIOR ELEVATIONS 6.31
- DASHED LINE DENOTES EXTERIOR AWNING ABOVE 7.39 LOCKERS (PERSONAL STORAGE) 10.71
- EXPOSED METAL BUILDING FRAME, PAINT 13.12 BRACE FRAME 6" OFFSET FROM OUTDSIDE FLANGE, SEE 13.17
  - STRUCTURAL
- HIGH-LOW DRINKING FOUNTAIN, SEE PLUMBING, AND XX/XXX 22.03 EMERGENCY EYE WASH/SHOWER, SEE PLUMBING 22.05 22.16

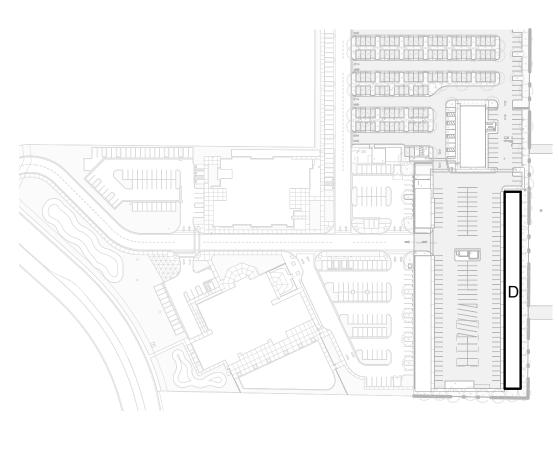
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|--------|--|
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| XX     | WINDOW REFERENCE<br>SEE WINDOW SCHEDULE ON SHEET A7XX                      |
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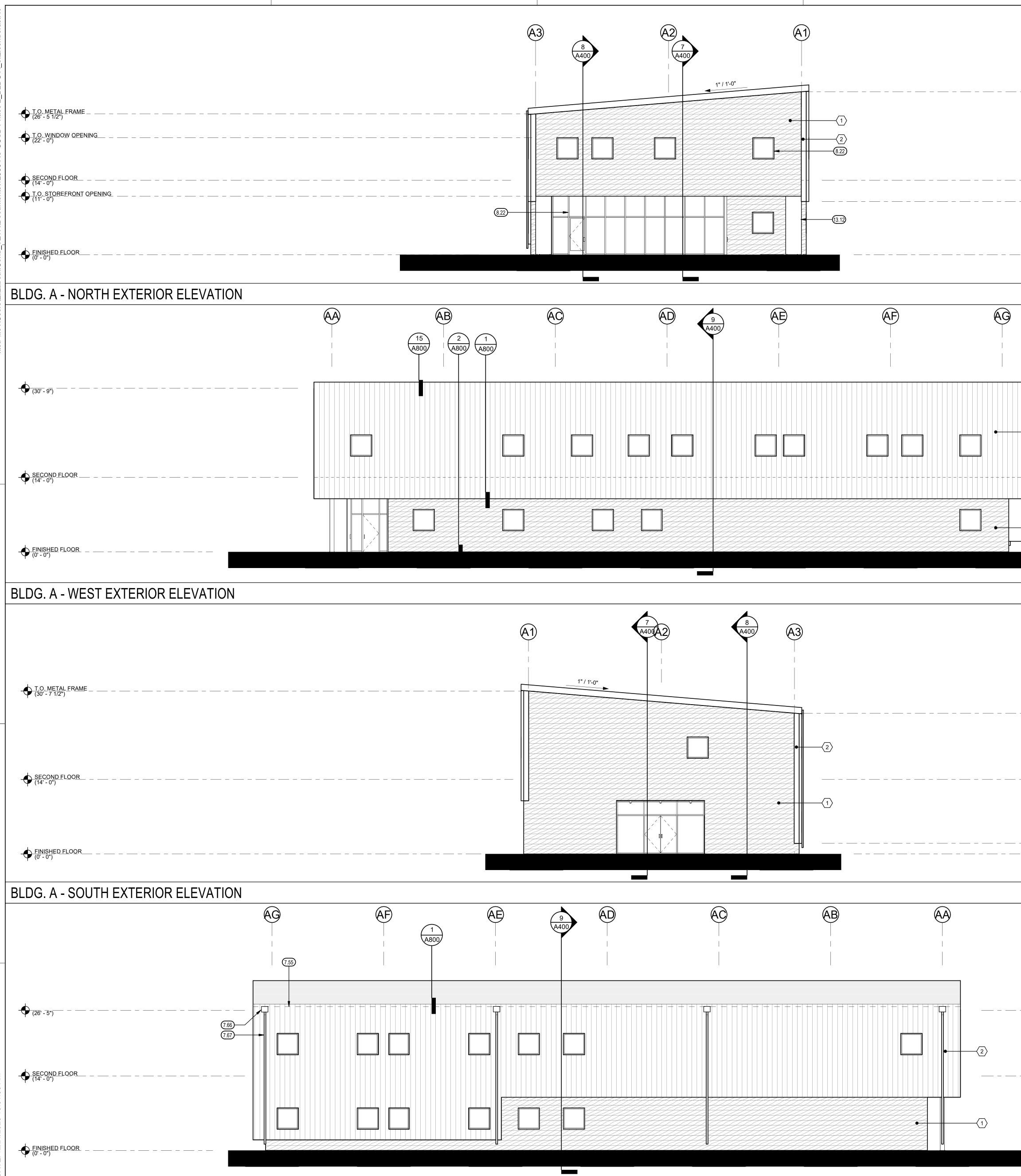
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| Teter, Inc. expressly<br>reserves its common law<br>copyright and other<br>property rights in these | plans. This document, the<br>ideas and designs<br>incorporated herein, as an | instrument of professional | service, is not to be used     | in whole or in part, for<br>any other project without |
|---|--|----------------------------|--------------------------------|---|
|   |  |                            |                                | 12/04/23 100% BID SET                                 |
|   |  |                            | l                              |   |
|   | CONSTRUCTION   |                            |                                |   |
| TETER, INC.   |  |                            | ARCHITECTS ENGINEERS CONNECTED |   |



# BLDG. A - EAST EXTERIOR ELEVATION

| KEYNC | TES | 00.00 |
|-------|-----|-------|
|       |     |       |

- 7.55 CONCEALED GUTTER 7.66 COLLECTOR BOX, TYP.
- 7.67 DOWNSPOUT, TYP. SEE 8 / A800 8.22 ALUMINUM STOREFRONT WINDOW, TYP.
- 13.12 EXPOSED METAL BUILDING FRAME, PAINT

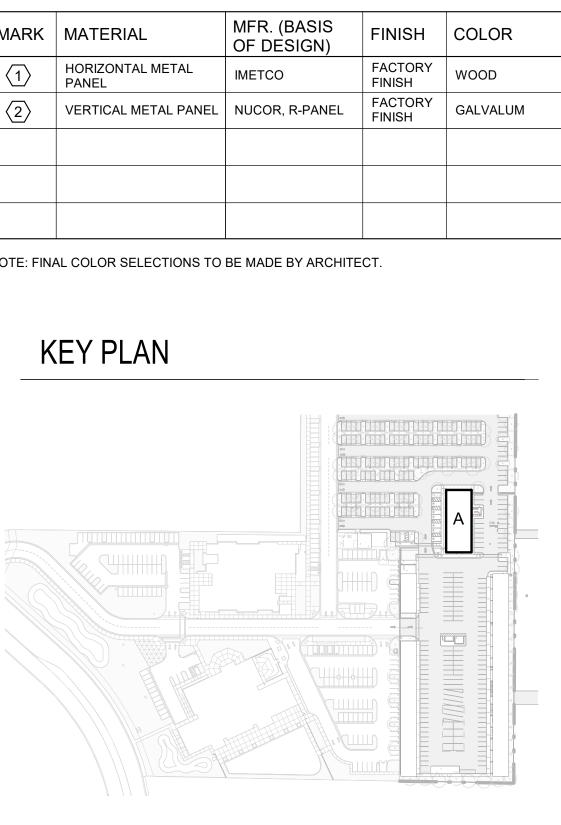
\_\_\_SECOND\_FLOOR (14' - 0") - (<u>1</u>0' - 0") <u>FINISHED FLOOR</u> \_\_\_\_\_ 1/8" = 1'-0" (30' - 9") <u>SECOND FLOOR</u> 1/8" = 1'-0" 8 <u>T.O. METAL FRAME</u> (26' - 5 1/2") SECOND FLOOR (14' - 0") 1/8" = 1'-0" 9 <u>SECOND FLOOR</u> (14' - 0") 

# EXTERIOR FINISH SCHEDULE

| MARK                | MATERIAL                  | MFR. (BASIS<br>OF DESIGN) | FINISH            | СС |
|---------------------|---------------------------|---------------------------|-------------------|----|
| $\langle 1 \rangle$ | HORIZONTAL METAL<br>PANEL | IMETCO                    | FACTORY<br>FINISH | wc |
| <b>2</b>            | VERTICAL METAL PANEL      | NUCOR, R-PANEL            | FACTORY<br>FINISH | GA |
|                     |                           |                           |                   |    |
|                     |                           |                           |                   |    |
|                     |                           |                           |                   |    |

NOTE: FINAL COLOR SELECTIONS TO BE MADE BY ARCHITECT.

1/8" = 1'-0" 10

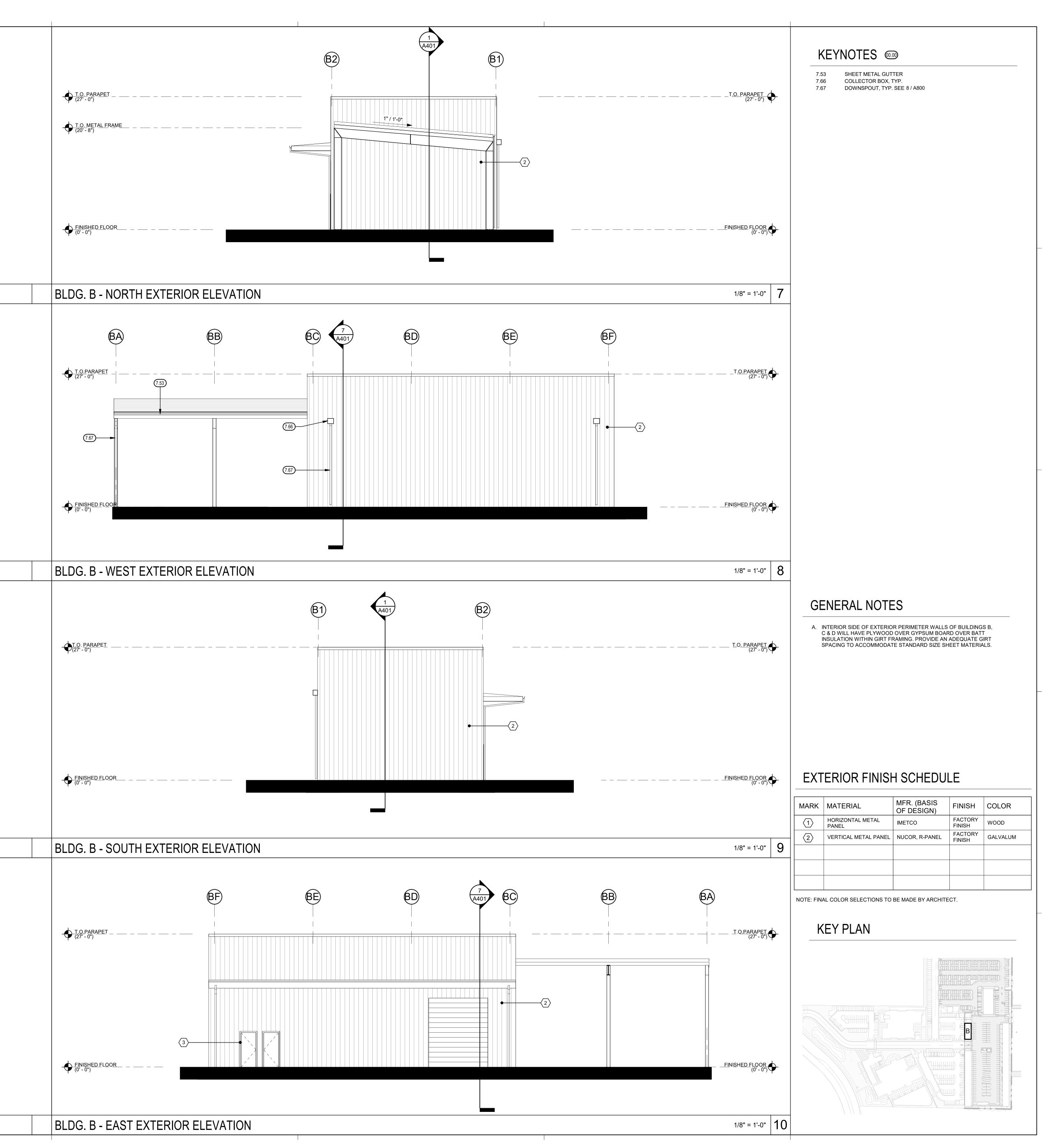




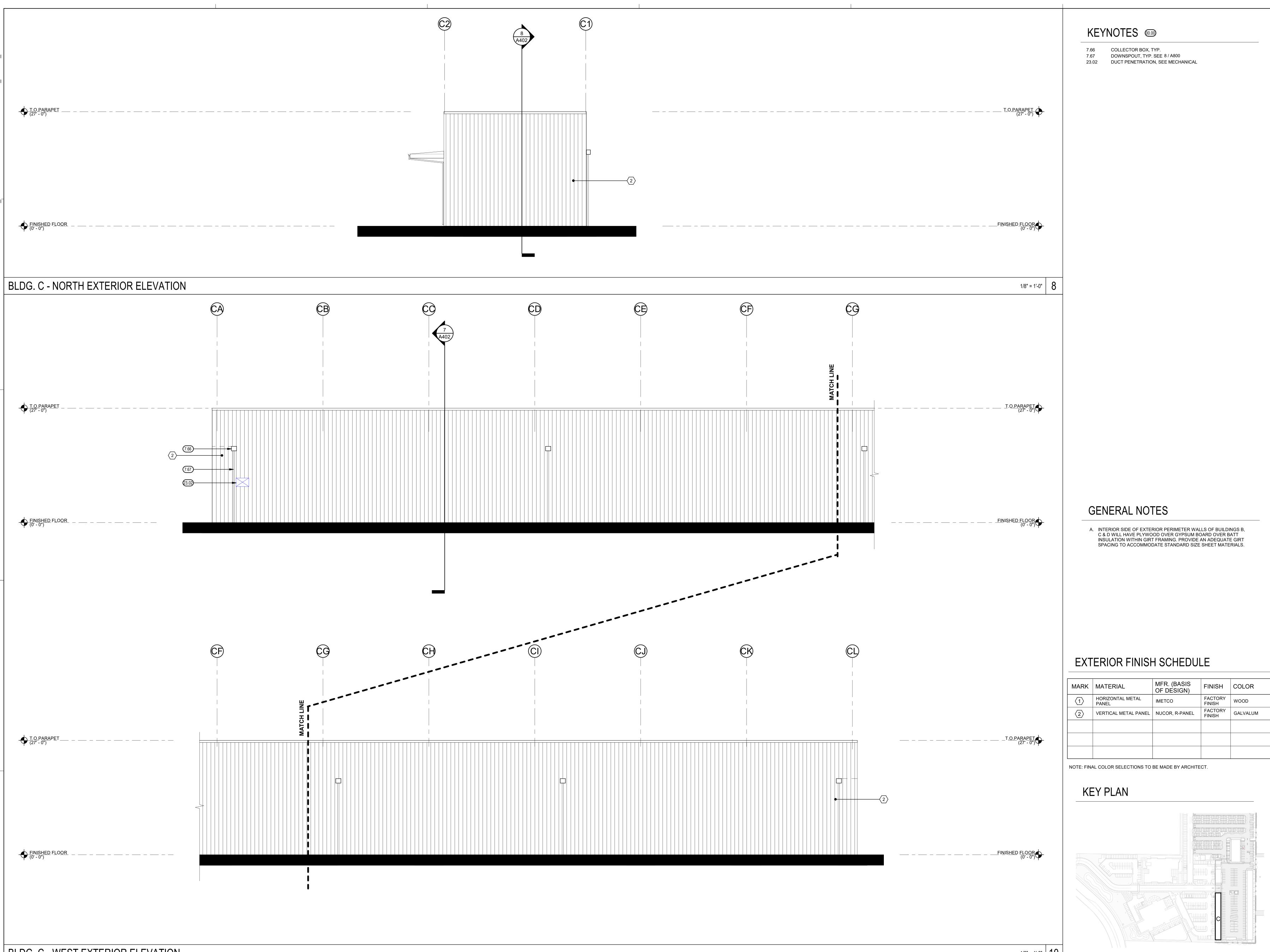


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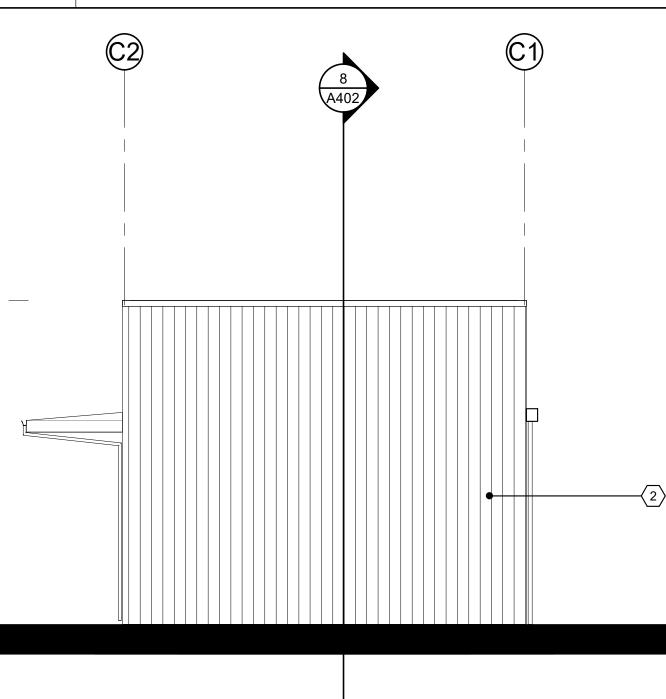
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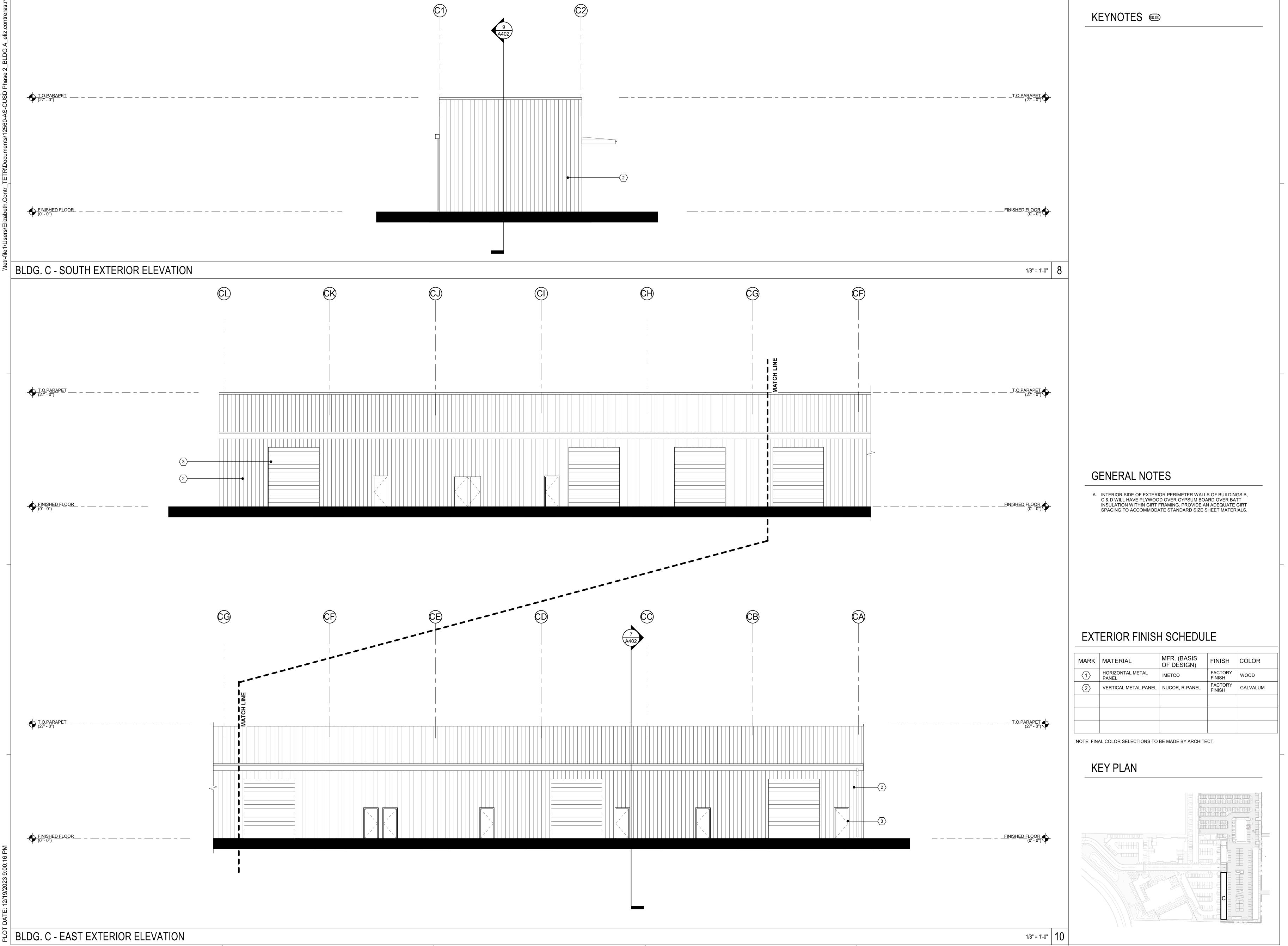


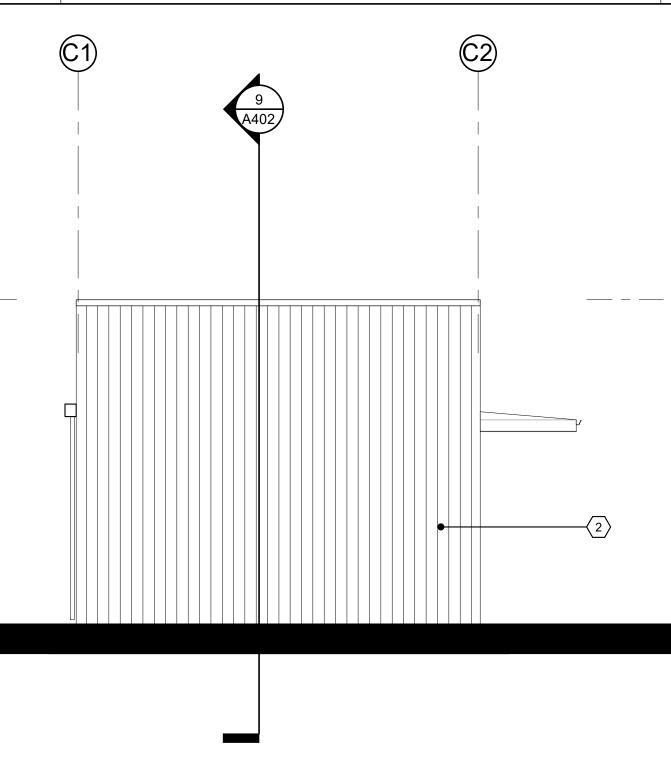


# BLDG. C - WEST EXTERIOR ELEVATION







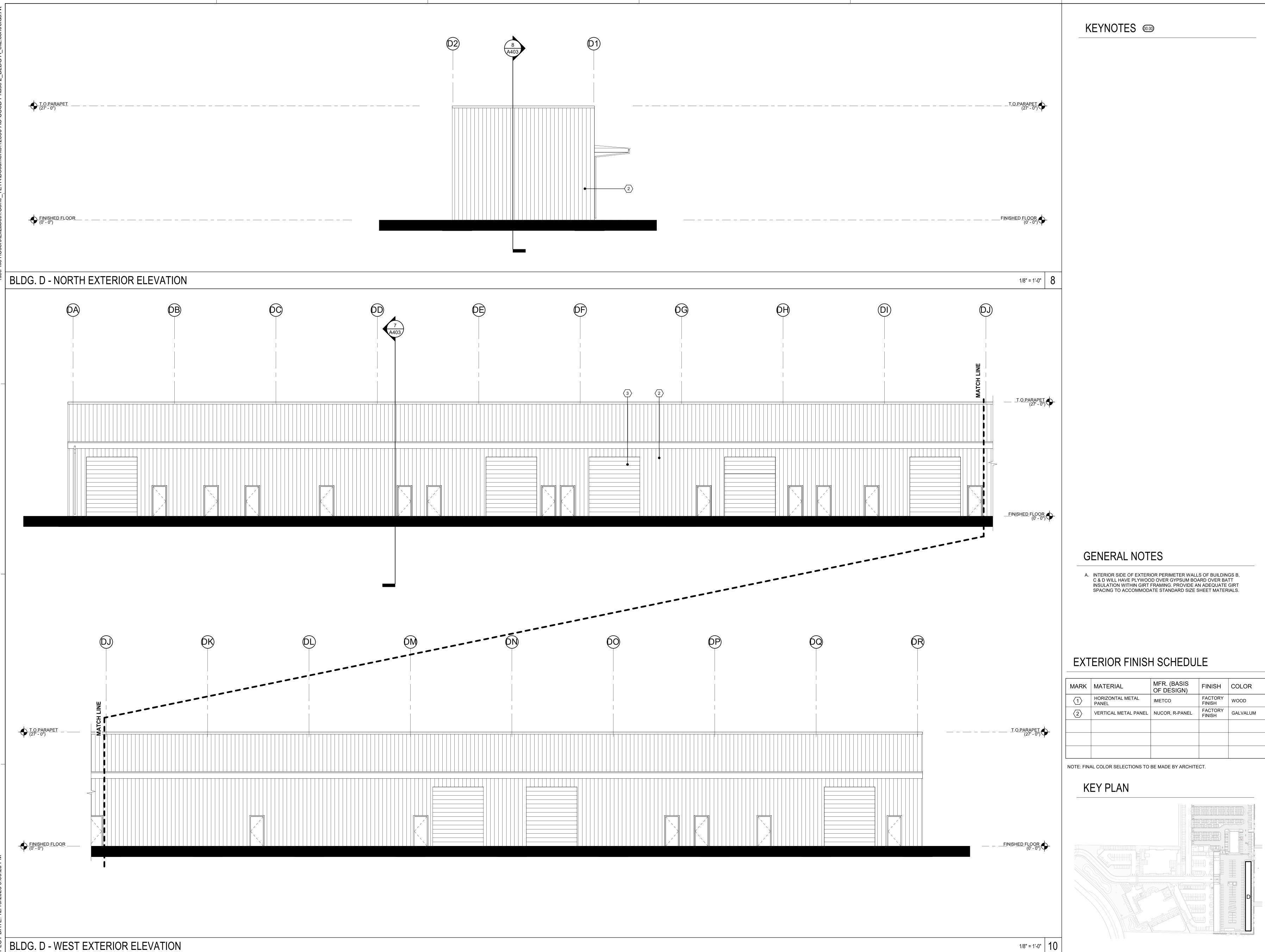


| MARK | MATERIAL                  | MFR. (BASIS<br>OF DESIGN) | FINISH            | C  |
|------|---------------------------|---------------------------|-------------------|----|
|      | HORIZONTAL METAL<br>PANEL | IMETCO                    | FACTORY<br>FINISH | W  |
| 2    | VERTICAL METAL PANEL      | NUCOR, R-PANEL            | FACTORY<br>FINISH | GA |
|      |                           |                           |                   |    |
|      |                           |                           |                   |    |
|      |                           |                           |                   |    |
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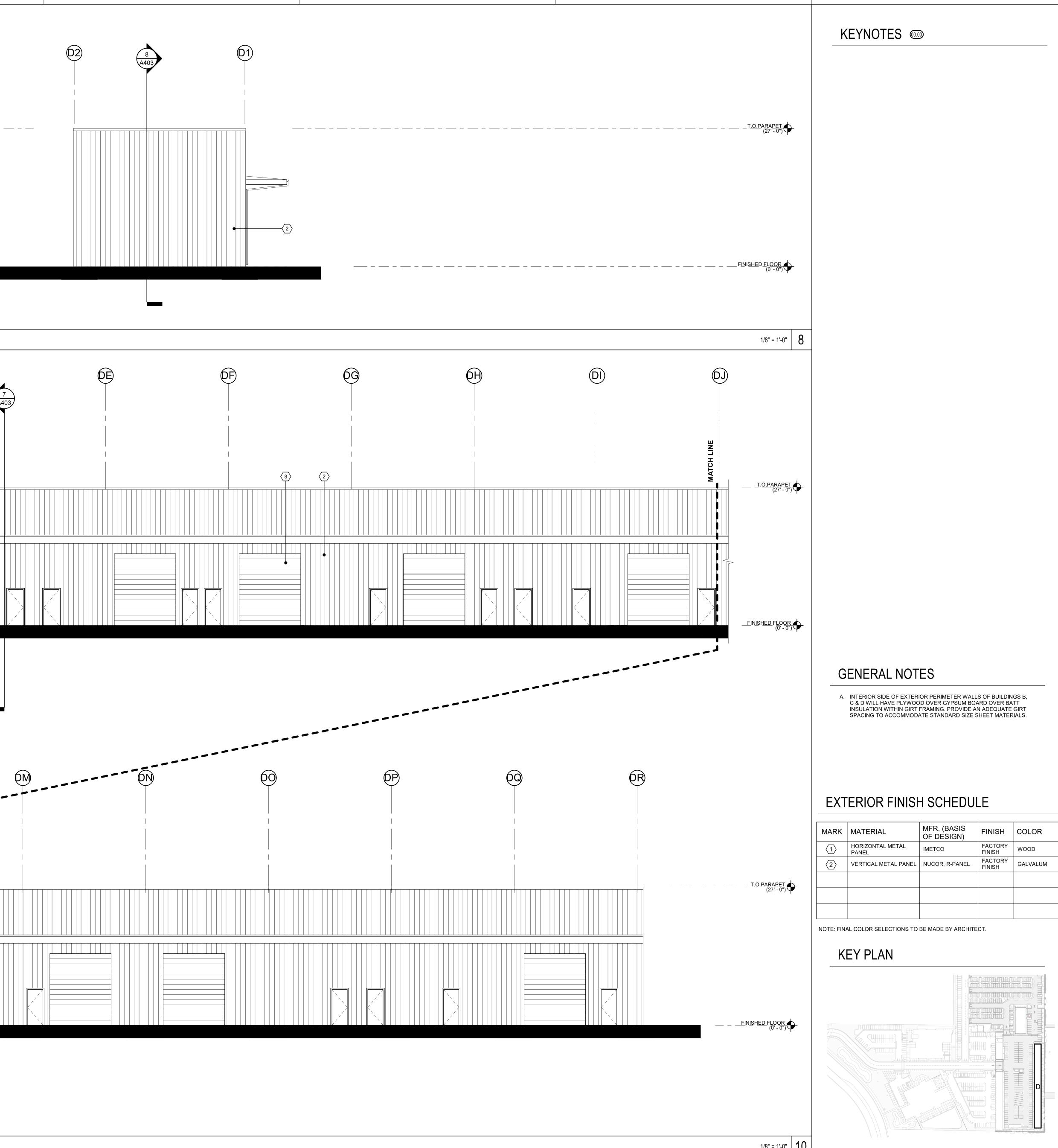




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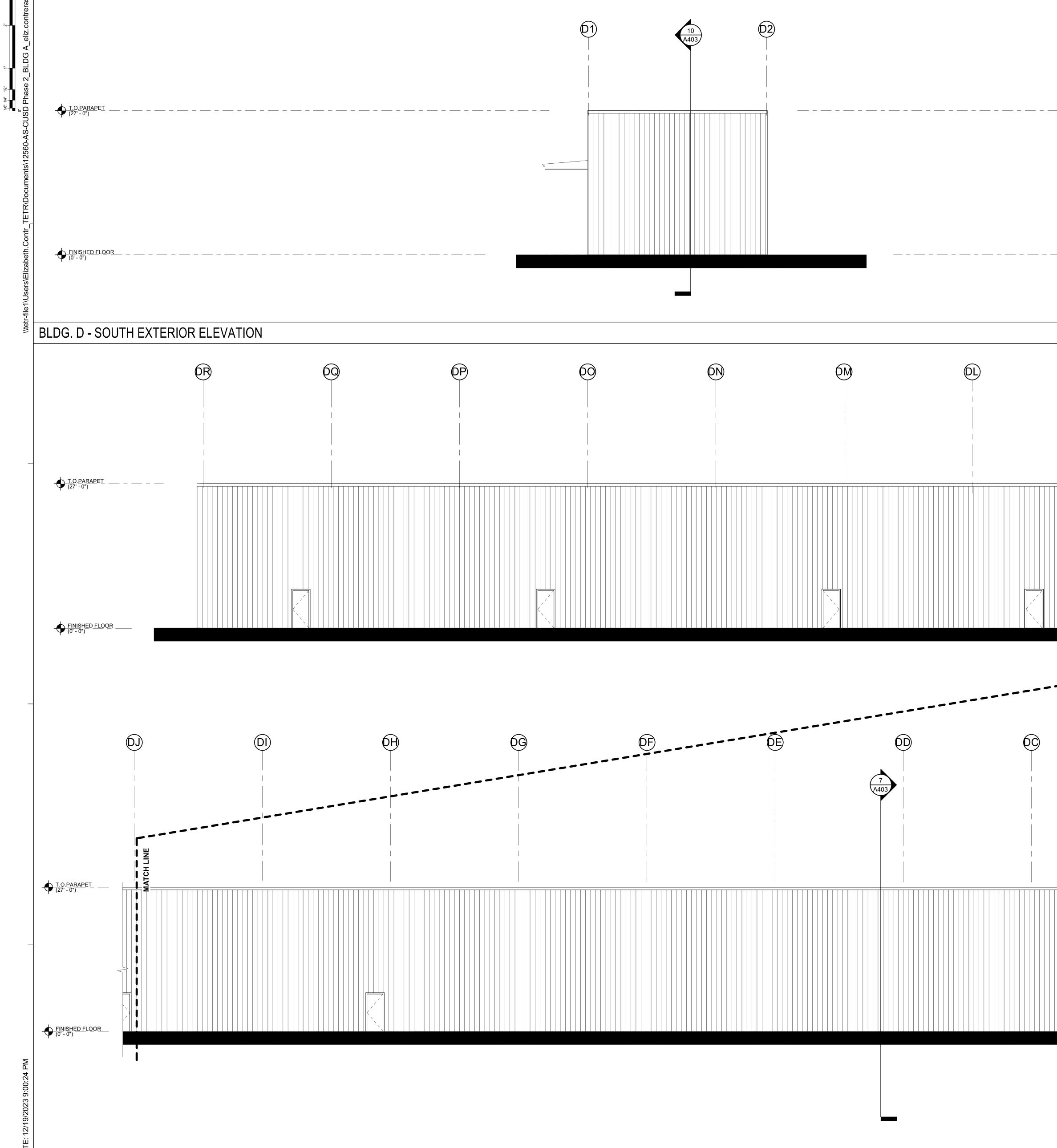


# BLDG. D - WEST EXTERIOR ELEVATION



| MARK | MATERIAL                  | MFR. (BASIS<br>OF DESIGN) | FINISH            | со  |
|------|---------------------------|---------------------------|-------------------|-----|
| (1)  | HORIZONTAL METAL<br>PANEL | IMETCO                    | FACTORY<br>FINISH | wo  |
| 2    | VERTICAL METAL PANEL      | NUCOR, R-PANEL            | FACTORY<br>FINISH | GAI |
|      |                           |                           |                   |     |
|      |                           |                           |                   |     |
|      |                           |                           |                   |     |





# BLDG. D - EAST EXTERIOR ELEVATION

1/8" = 1'-0" (DK) (DJ)ØB (DA)

KEYNOTES 🚥

# GENERAL NOTES

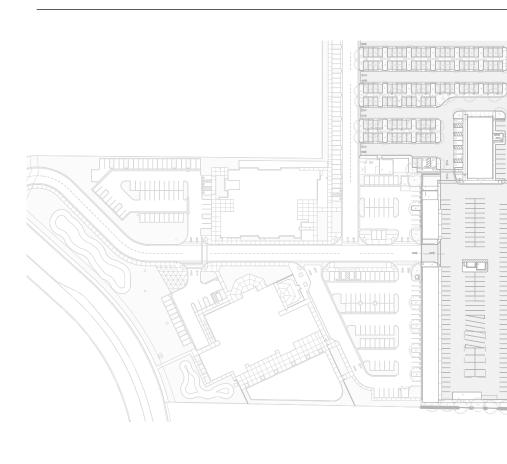
A. INTERIOR SIDE OF EXTERIOR PERIMETER WALLS OF BUILDINGS B, C & D WILL HAVE PLYWOOD OVER GYPSUM BOARD OVER BATT INSULATION WITHIN GIRT FRAMING. PROVIDE AN ADEQUATE GIRT SPACING TO ACCOMMODATE STANDARD SIZE SHEET MATERIALS.

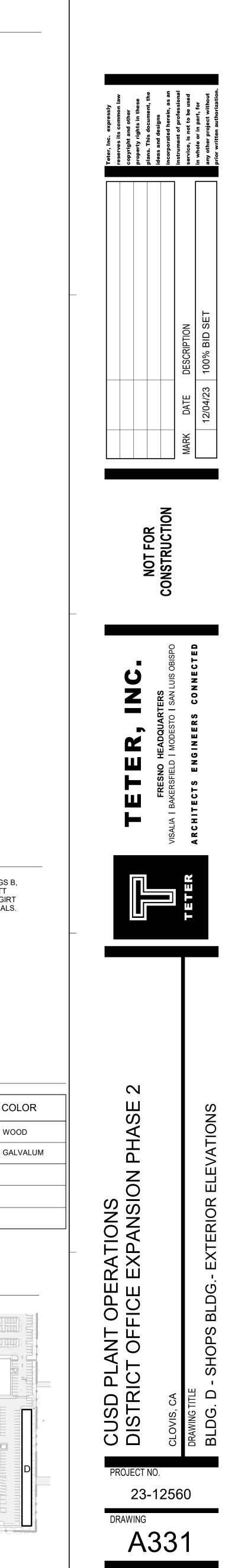
# EXTERIOR FINISH SCHEDULE

| MARK | MATERIAL                  | MFR. (BASIS<br>OF DESIGN) | FINISH            | С |
|------|---------------------------|---------------------------|-------------------|---|
|      | HORIZONTAL METAL<br>PANEL | IMETCO                    | FACTORY<br>FINISH | w |
| 2    | VERTICAL METAL PANEL      | NUCOR, R-PANEL            | FACTORY<br>FINISH | G |
|      |                           |                           |                   |   |
|      |                           |                           |                   |   |
|      |                           |                           |                   |   |
| •    | •                         | •                         |                   |   |

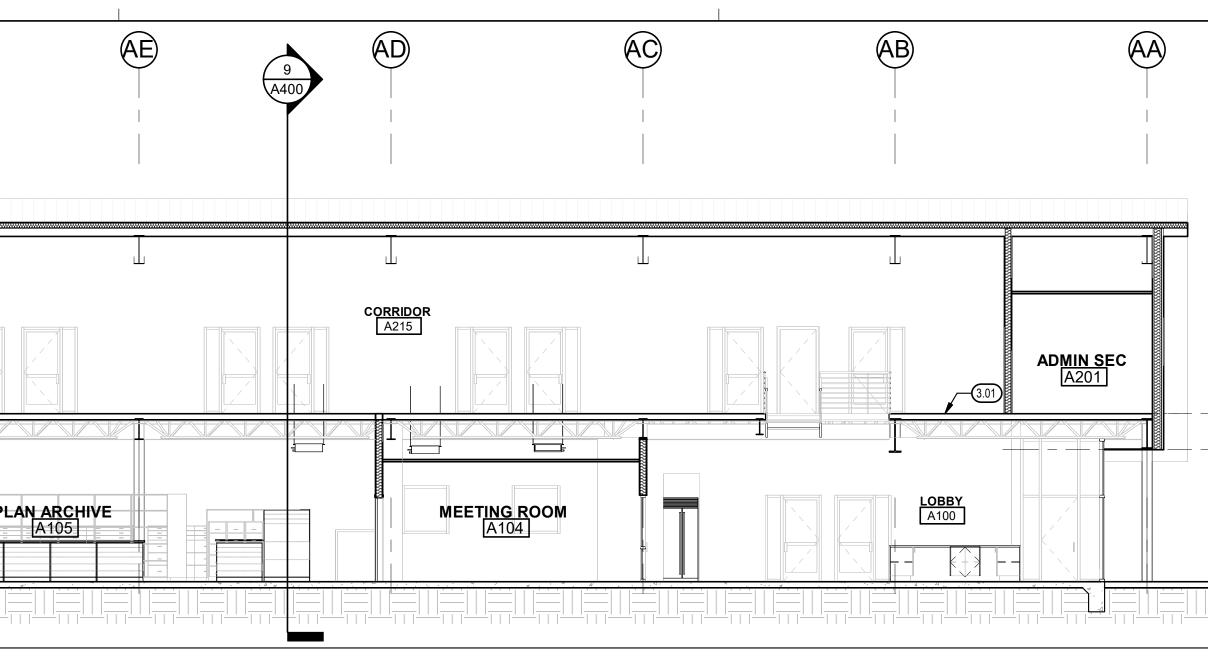
NOTE: FINAL COLOR SELECTIONS TO BE MADE BY ARCHITECT.

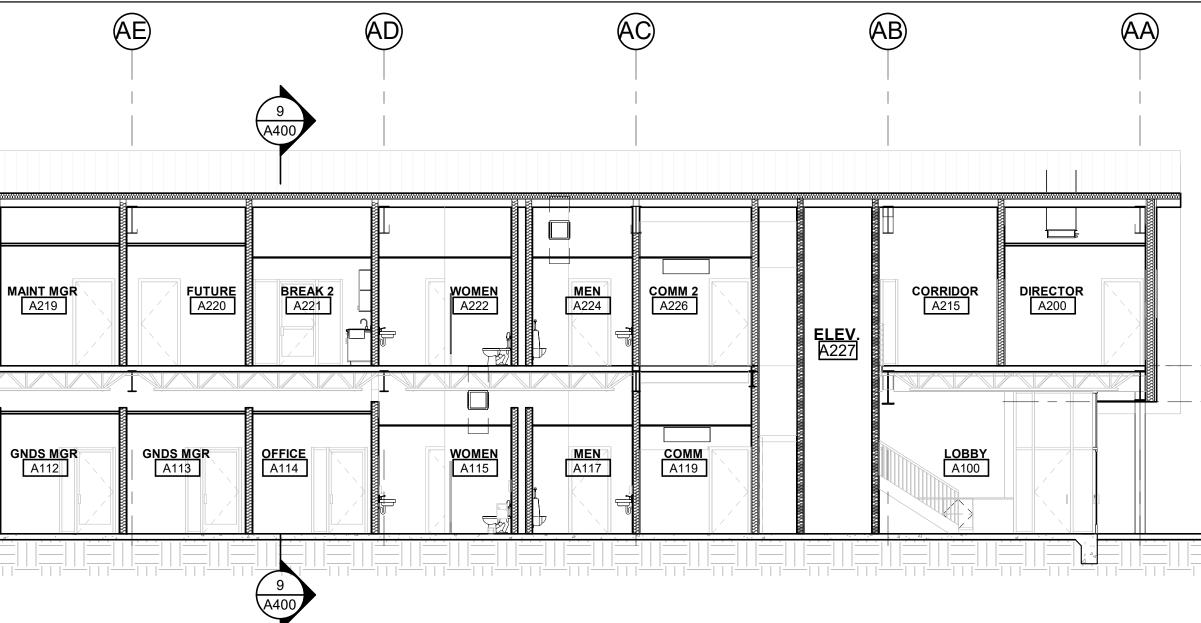
# KEY PLAN

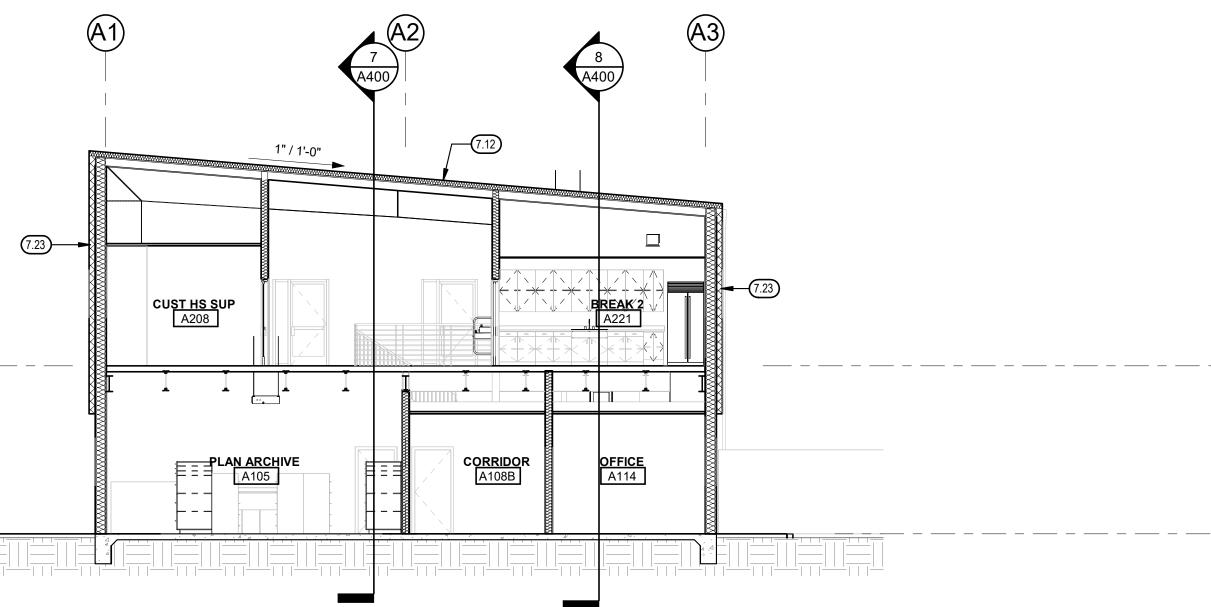




| €ECOND FLOOR<br>(14°-0°)<br>ENISHED FLOOR<br>(14°-0°)<br>ENISHED FLOOR<br>ENISHED FLOOR |                 |
|---|-----------------|
| €ECOND FLOOR  |                 |
| €FINISHED FLOOR   | (AF)            |
| €FINISHED FLOOR   |                 |
| FINISHED FLOOR  |                 |
| FINISHED FLOOR  | MAINT N<br>A218 |
|   |                 |
|   | GNDS MGR        |
| BUILDING SECTION  |                 |
|   |                 |
|   |                 |
|   |                 |
|   |                 |
|   |                 |
| LEVEL 2 - FINISHED FLOOR  |                 |
|   |                 |
|   |                 |
| BUILDING SECTION  |                 |
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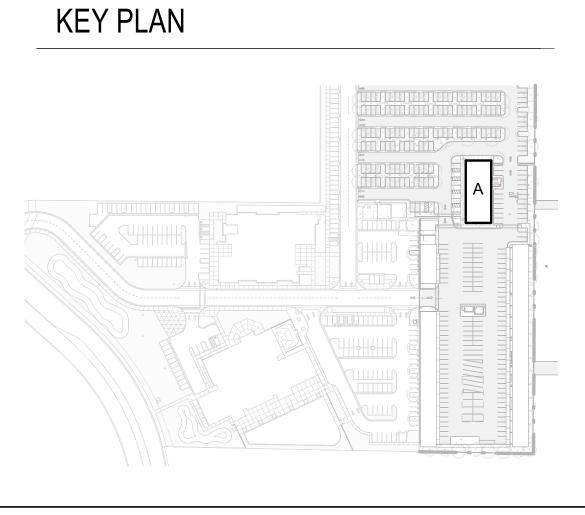




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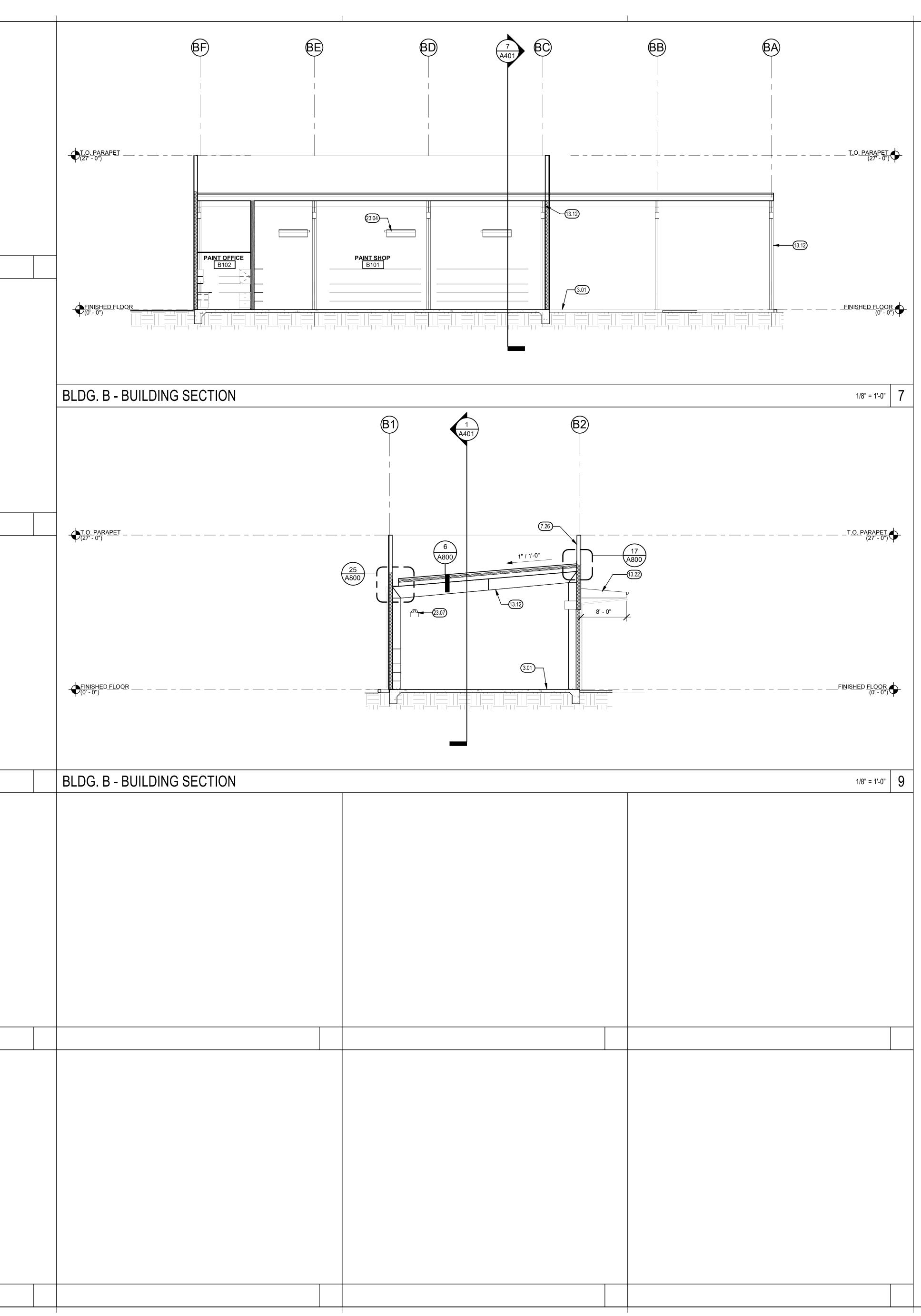
3.01 CONCRETE SLAB7.12 ROOF INSULATION, SEE 6 / A8007.23 VERTICAL METAL OVER 4" RIGID INSULATION

SECOND FLOOR (14' - 0") \_\_\_\_B<u>.O.BEAM</u> (11' - 0") 1/8" = 1'-0" | 7 SECOND FLOOR (14' - 0") \_\_\_\_\_ \_\_\_\_B<u>.O.BEAM</u> (11' - 0") \_\_\_\_\_\_ <u>FINISHED\_FLOOR</u> 1/8" = 1'-0" 8 FINISHED FLOOR 1/8" = 1'-0" 9





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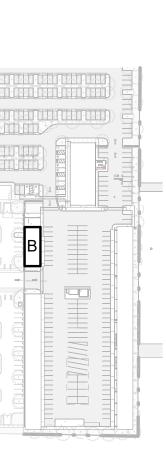


| 3.01  | CONCRETE SLAB         |
|-------|-----------------------|
| 7.26  | VERTICAL METAL PANEL  |
| 13.12 | EXPOSED METAL BUILDIN |
| 13.22 | METAL BUILDING AWNING |
|       | 7.26<br>13.12         |

KEY PLAN

EXPOSED METAL BUILDING FRAME, PAINT METAL BUILDING AWNING, SEE 7 / A800 MECHANICAL EQUIPMENT, SEE MECHANICAL SUSPENDED EQUIPMENT, SEE MECHANICAL, TYP.

23.04 23.07



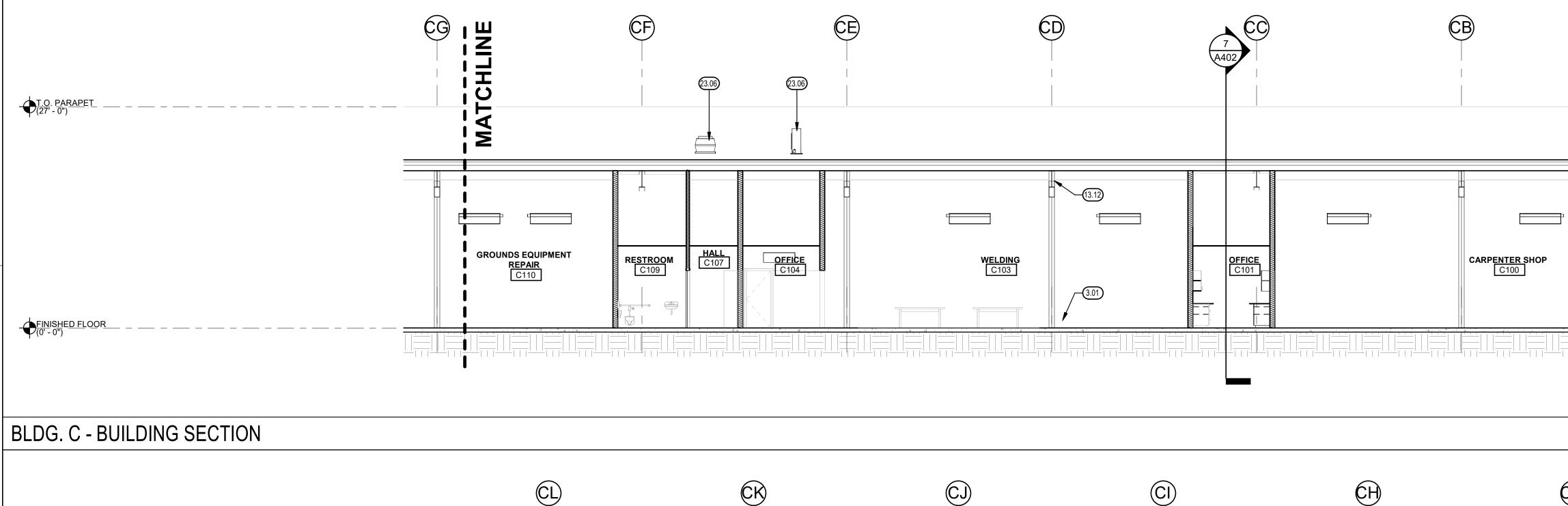


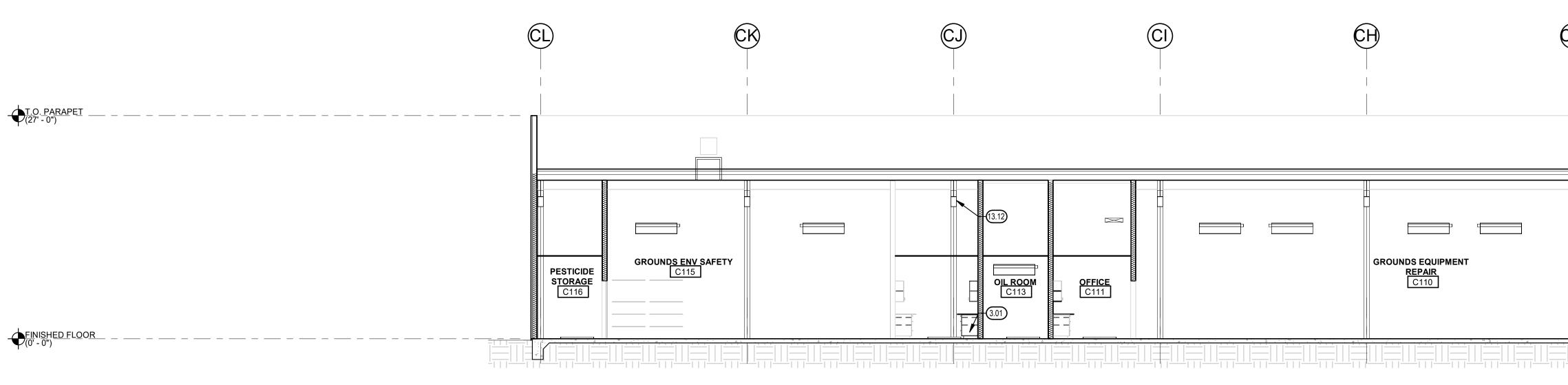
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| 2"                 |      | A eliz.contreras.rvt                                |
| ÷-                 |      | hase 2 BLDG A                                       |
| 1/6" 1/4" 1/2"<br> | L.º0 | <b>JSD Phase 2</b>                                  |
|                    |      | <ul> <li>TETR\Documents\12560-AS-CUSD Pt</li> </ul> |
|                    |      | tetr-file1\Users\Elizabeth.Contr <sup>-</sup>       |

<u>- T.O.</u> P<u>ARAPE</u>T\_ (27' - 0")

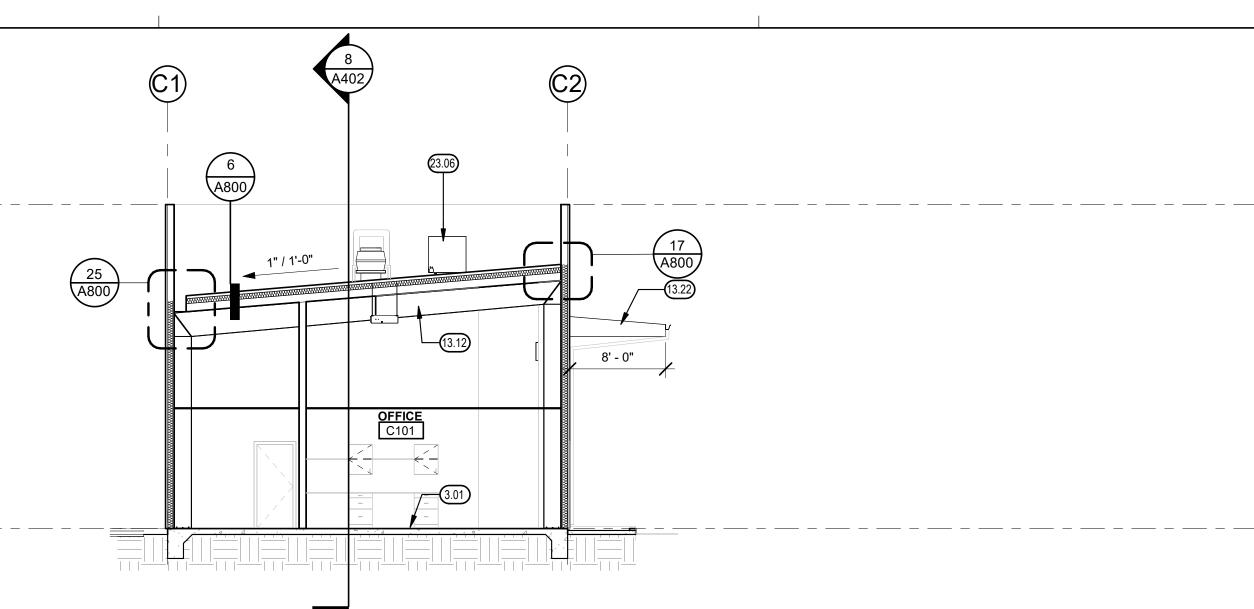
# FINISHED FLOOR

# BLDG. C - BUILDING SECTION





# BLDG. C - BUILDING SECTION

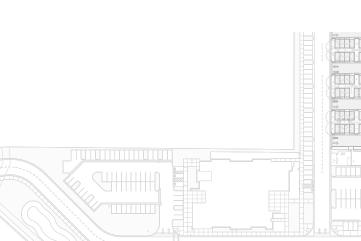


# KEYNOTES 🚥

3.01 13.12 13.22

CONCRETE SLAB EXPOSED METAL BUILDING FRAME, PAINT METAL BUILDING AWNING, SEE 7 / A800 23.06 ROOF MOUNTED EQUIPMENT, SEE MECHANICAL

1/8" = 1'-0" CA \_\_\_\_\_FINISHED FLOOR \_\_\_\_\_ 1/8" = 1'-0" 8 CG \_ <u>T.O. PARAPET</u> (27' - 0") \_\_\_\_ \_ \_\_\_ \_ \_\_ \_ \_\_ \_ \_ \_\_ \_ FINISHED FLOOR 1/8" = 1'-0" 9



# KEY PLAN

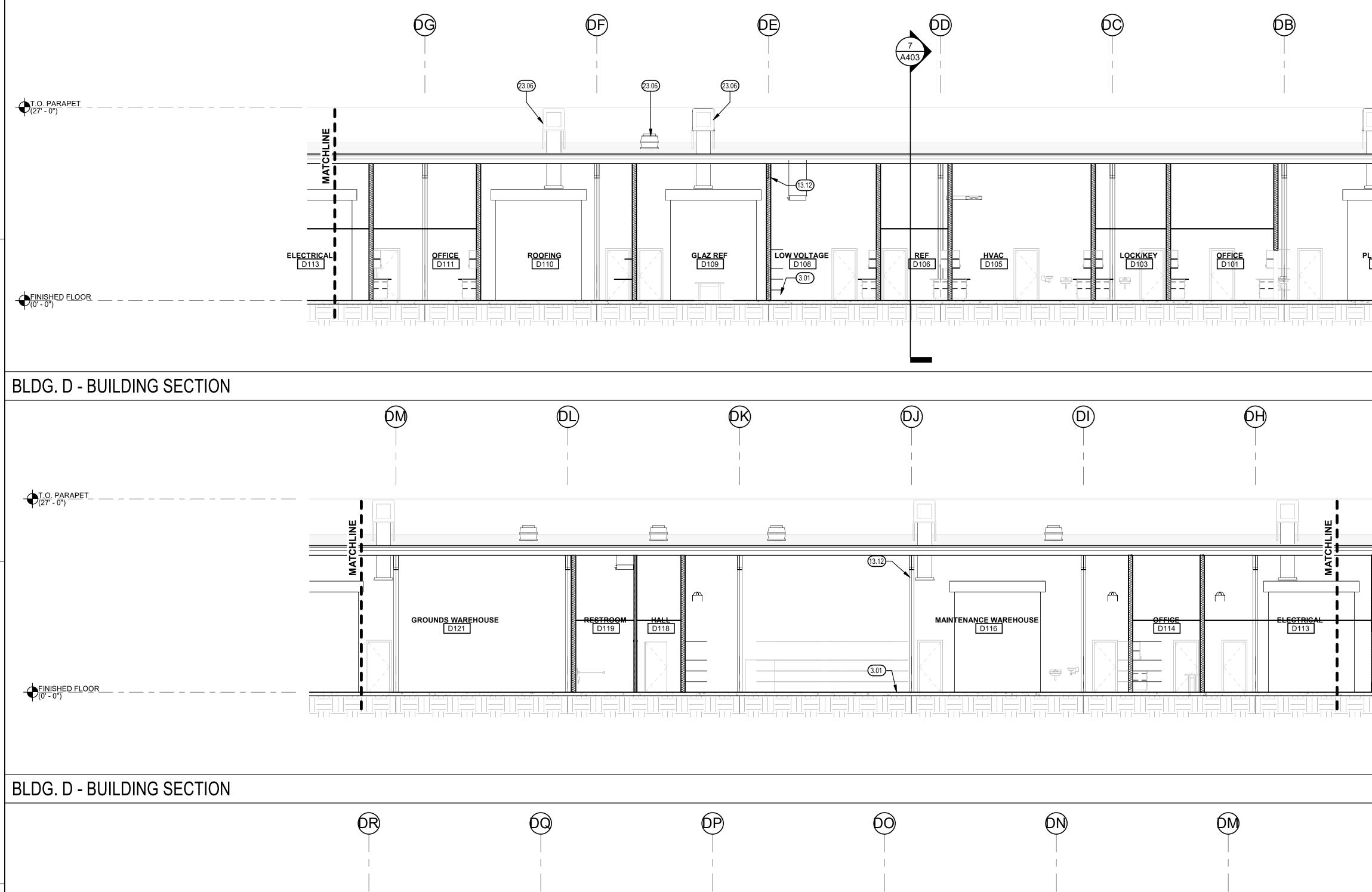






**J. PARAPET** 

# BLDG. D - BUILDING SECTION



D124

TREE & IRRIGATION

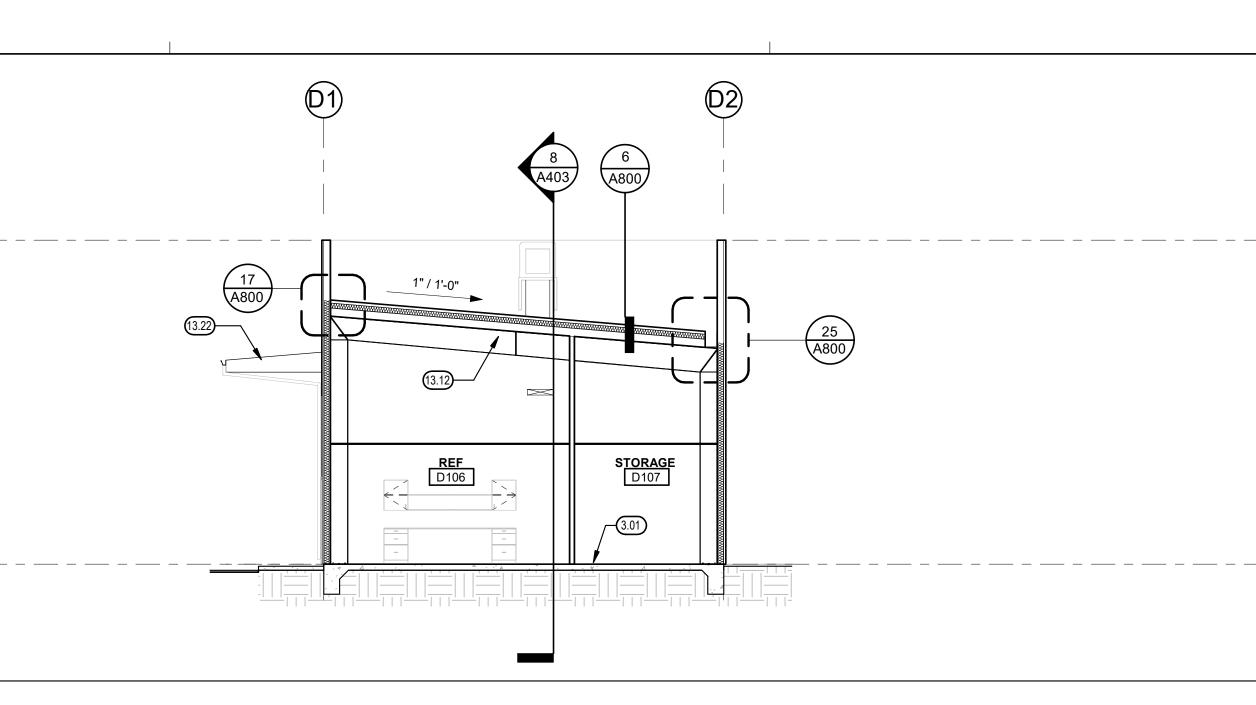
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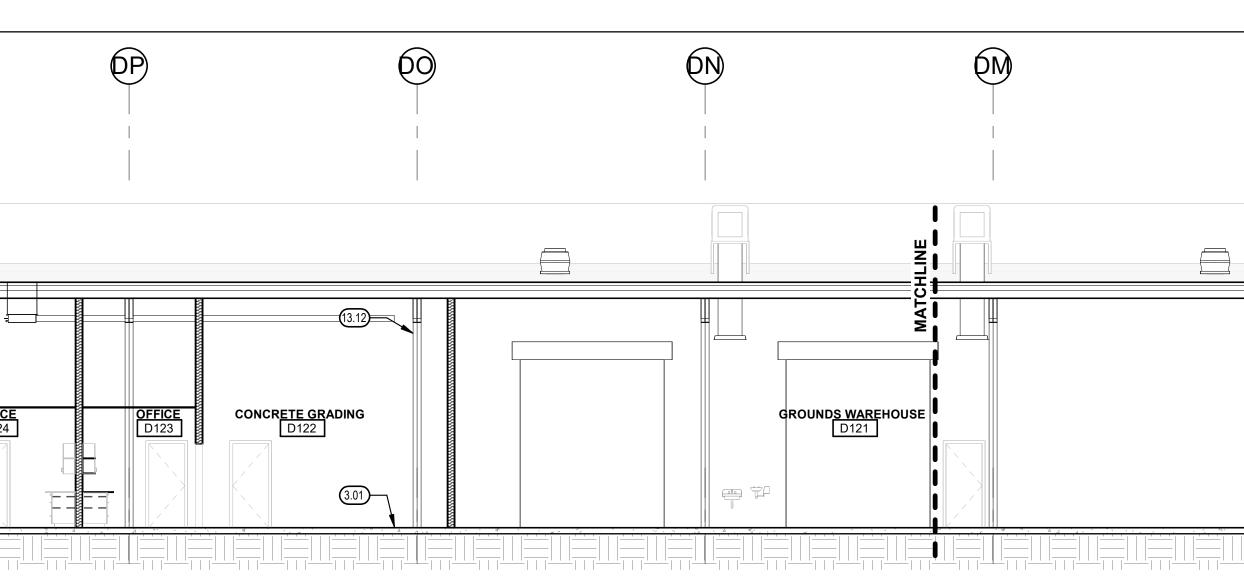
PLOT DATE: 12/19/2023 9:00:44 P

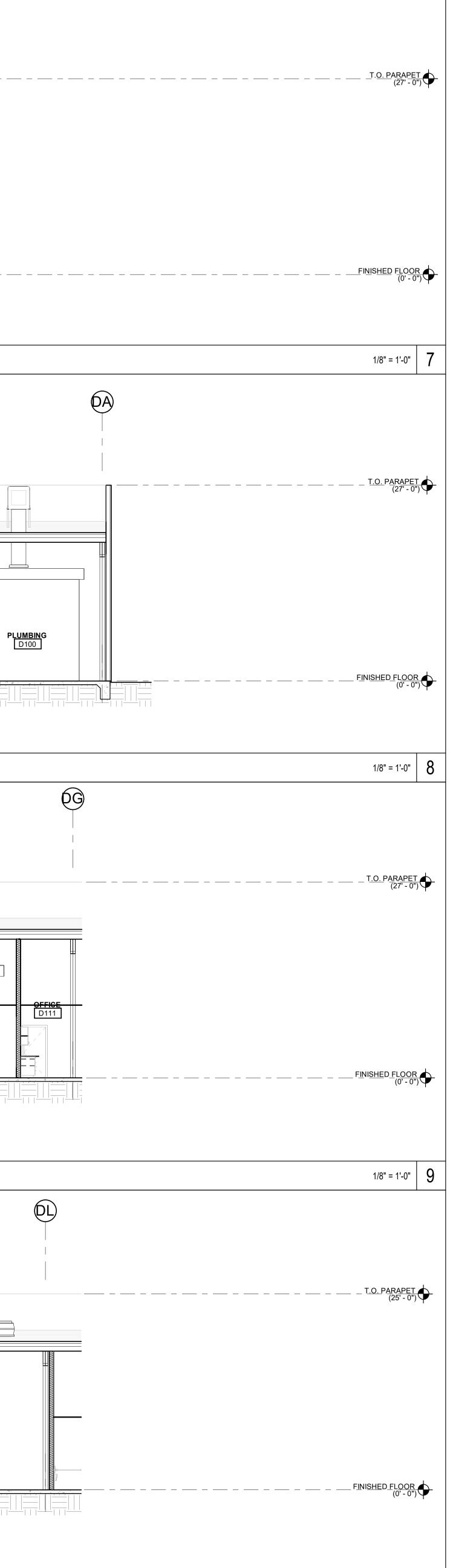
<u>T.O. PARAPET</u> (25' - 0")

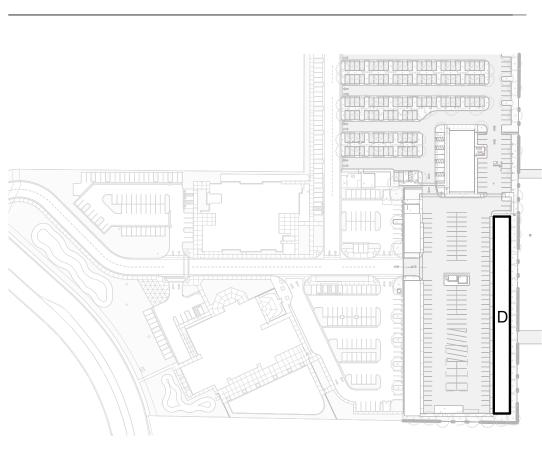
FINISHED FLOOR (0' - 0")

# BLDG. D - BUILDING SECTION







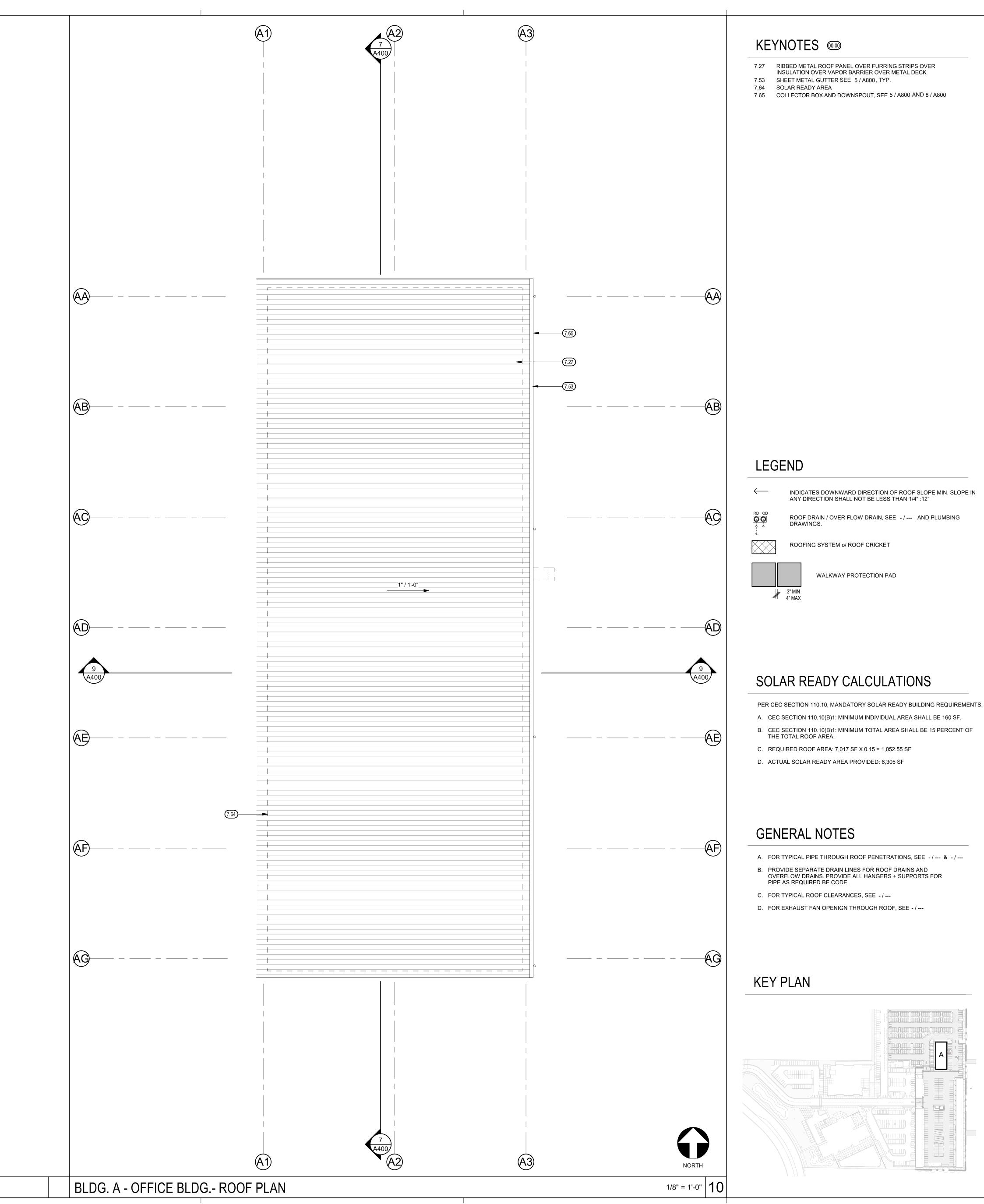


KEY PLAN

1/8" = 1'-0" 10

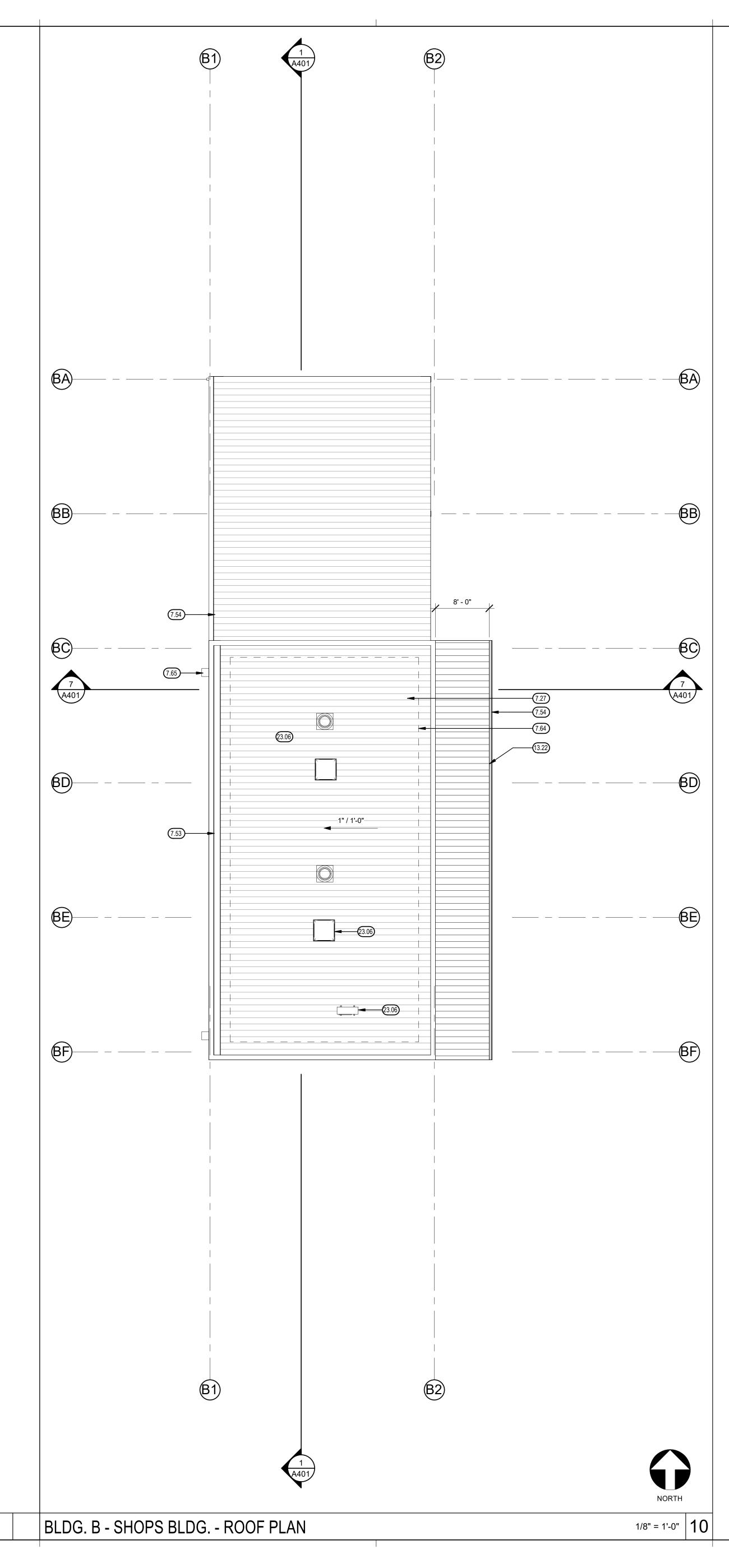
KEYNOTES 🚥





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7.27 RIBBED METAL ROOF PANEL OVER FURRING STRIPS OVER INSULATION OVER VAPOR BARRIER OVER METAL DECK 7.53 SHEET METAL GUTTER 7.54 SURFACE MOUNTED SHEET METAL GUTTER

- 7.64 SOLAR READY AREA 7.65 COLLECTOR BOX AND DOWNSPOUT, SEE 5 / A800 AND 8 / A800
- 13.22 METAL BUILDING AWNING, SEE 7 / A800 23.06 ROOF MOUNTED EQUIPMENT, SEE MECHANICAL

# LEGEND

| <br>INDICATES DOWNWARD DIRECTION OF ROOF SLOPE M<br>ANY DIRECTION SHALL NOT BE LESS THAN 1/4" :12" | IIN. S |
|--|--------|
| ROOF DRAIN / OVER FLOW DRAIN, SEE - / AND PLU<br>DRAWINGS.   | MBI    |

# SOLAR READY CALCULATIONS

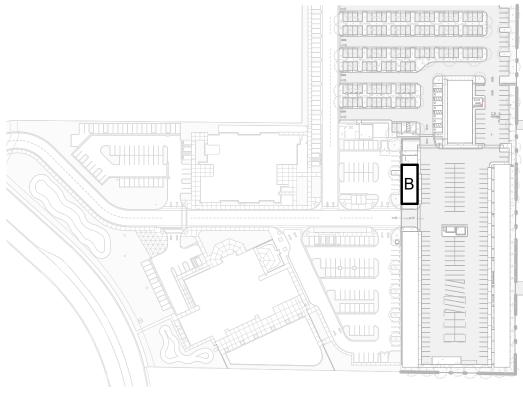
PER CEC SECTION 110.10, MANDATORY SOLAR READY BUILDING REQUIREMENTS: A. CEC SECTION 110.10(B)1: MINIMUM INDIVIDUAL AREA SHALL BE 160 SF. B. CEC SECTION 110.10(B)1: MINIMUM TOTAL AREA SHALL BE 15 PERCENT OF

- THE TOTAL ROOF AREÁ.
- C. REQUIRED ROOF AREA: 2,608 SF X 0.15 = 391.2 SF
- D. ACTUAL SOLAR READY AREA PROVIDED: 1,601 SF

# GENERAL NOTES

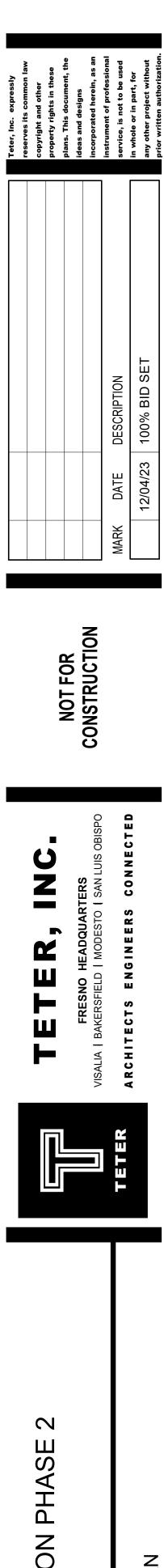
- A. FOR TYPICAL PIPE THROUGH ROOF PENETRATIONS, SEE / --- / ---B. PROVIDE SEPARATE DRAIN LINES FOR ROOF DRAINS AND OVERFLOW DRAINS. PROVIDE ALL HANGERS + SUPPORTS FOR
- PIPE AS REQUIRED BE CODE.
- C. FOR TYPICAL ROOF CLEARANCES, SEE \_ / ---D. FOR EXHAUST FAN OPENIGN THROUGH ROOF, SEE \_ / ---

# KEY PLAN

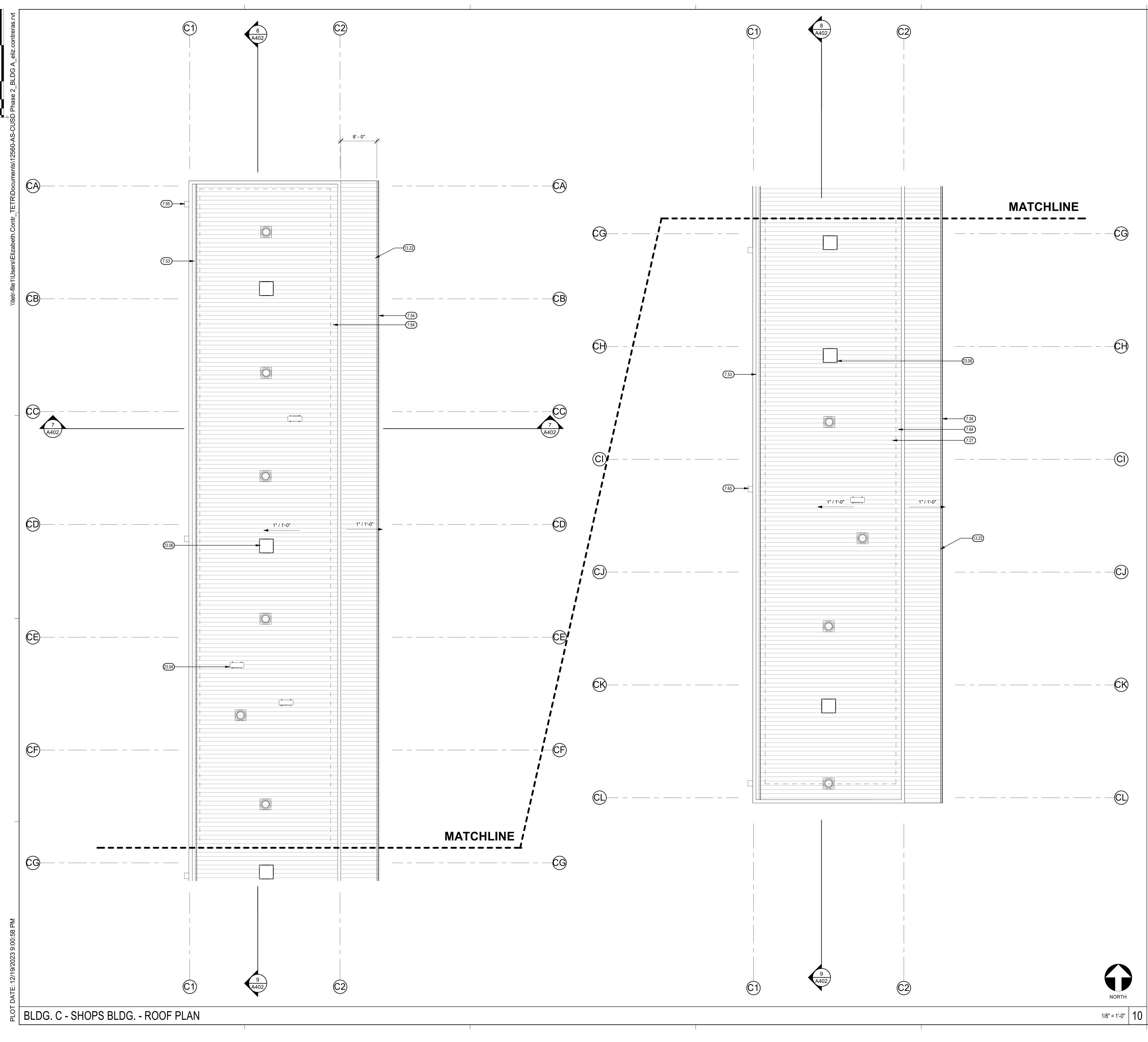


I. SLOPE IN

BING







| 7.27  | RIBBED METAL ROOF PANEL OVER FURRING STRIPS OVER<br>INSULATION OVER VAPOR BARRIER OVER METAL DECK |
|-------|---|
| 7.53  | SHEET METAL GUTTER  |
| 7.54  | SURFACE MOUNTED SHEET METAL GUTTER  |
| 7.64  | SOLAR READY AREA  |
| 7.65  | COLLECTOR BOX AND DOWNSPOUT, SEE 5 / A800 AND 8 / A800  |
| 13.22 | METAL BUILDING AWNING, SEE 7 / A800   |
| 23.04 | MECHANICAL EQUIPMENT, SEE MECHANICAL  |
| 23.06 | ROOF MOUNTED EQUIPMENT, SEE MECHANICAL  |

### LEGEND

| $\leftarrow$ | INDICATES DOWNWARD DIRECTION OF ROOF SLOPE MIN<br>ANY DIRECTION SHALL NOT BE LESS THAN 1/4" :12" |
|--------------|--|
|              | ROOF DRAIN / OVER FLOW DRAIN, SEE - / AND PLUME<br>DRAWINGS.                                     |
| ~            | ROOFING SYSTEM o/ ROOF CRICKET   |
| #            | 3" MIN<br>4" MAX   |

### SOLAR READY CALCULATIONS

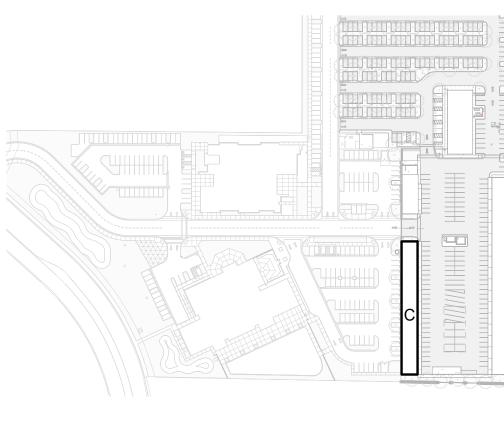
PER CEC SECTION 110.10, MANDATORY SOLAR READY BUILDING REQUIREMENTS: A. CEC SECTION 110.10(B)1: MINIMUM INDIVIDUAL AREA SHALL BE 160 SF. B. CEC SECTION 110.10(B)1: MINIMUM TOTAL AREA SHALL BE 15 PERCENT OF THE TOTAL ROOF AREA.

- C. REQUIRED ROOF AREA: 8,892 SF X 0.15 = 1,333.8 SF
- D. ACTUAL SOLAR READY AREA PROVIDED: 7,866 SF

### GENERAL NOTES

- A. FOR TYPICAL PIPE THROUGH ROOF PENETRATIONS, SEE / --- / ---
- B. PROVIDE SEPARATE DRAIN LINES FOR ROOF DRAINS AND OVERFLOW DRAINS. PROVIDE ALL HANGERS + SUPPORTS FOR PIPE AS REQUIRED BE CODE.
- C. FOR TYPICAL ROOF CLEARANCES, SEE \_/\_\_\_
- D. FOR EXHAUST FAN OPENIGN THROUGH ROOF, SEE \_ / ---

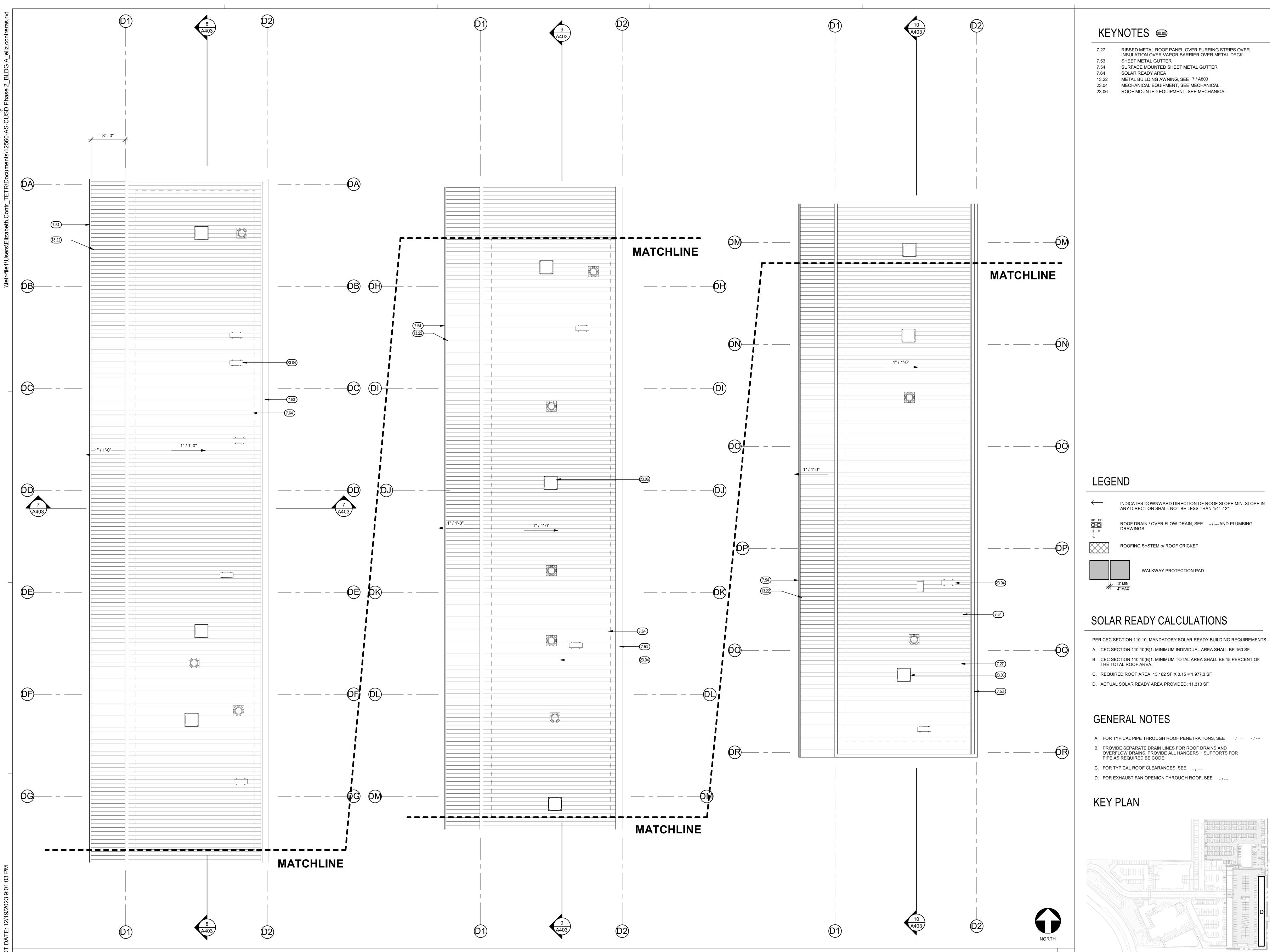
# KEY PLAN



. SLOPE IN

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1/8" = 1'-0" 10







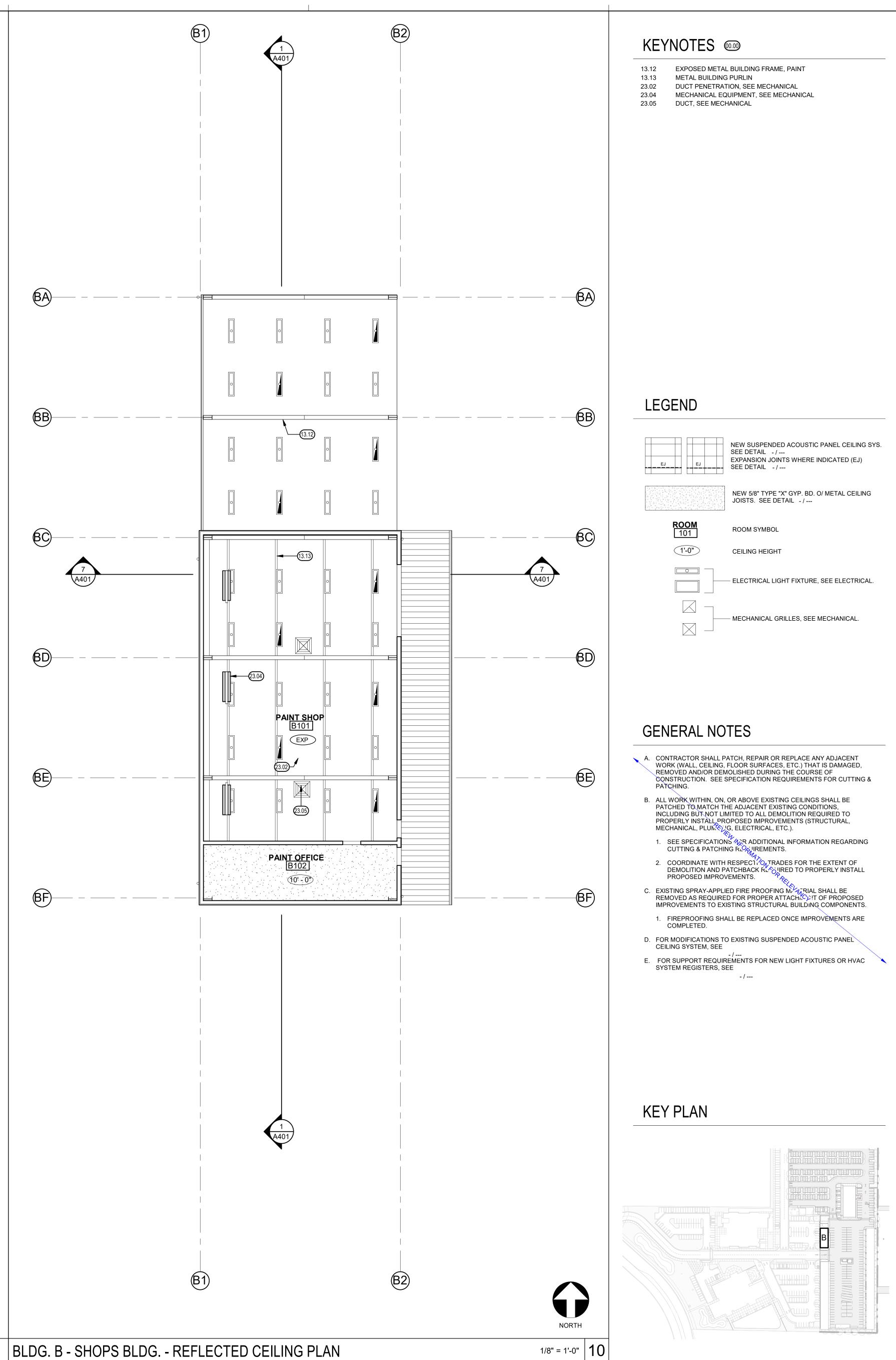


|                    | NEW SUSPENDED ACOUSTIC PANEL CEIL<br>SEE DETAIL - /<br>EXPANSION JOINTS WHERE INDICATED (E<br>SEE DETAIL - / |
|--------------------|--|
|                    | NEW 5/8" TYPE "X" GYP. BD. O/ METAL CE<br>JOISTS. SEE DETAIL - /   |
| <b>ROOM</b><br>101 | ROOM SYMBOL  |
| 1'-0"              | CEILING HEIGHT   |
|                    | – ELECTRICAL LIGHT FIXTURE, SEE ELECT  |
|                    | – MECHANICAL GRILLES, SEE MECHANICA  |

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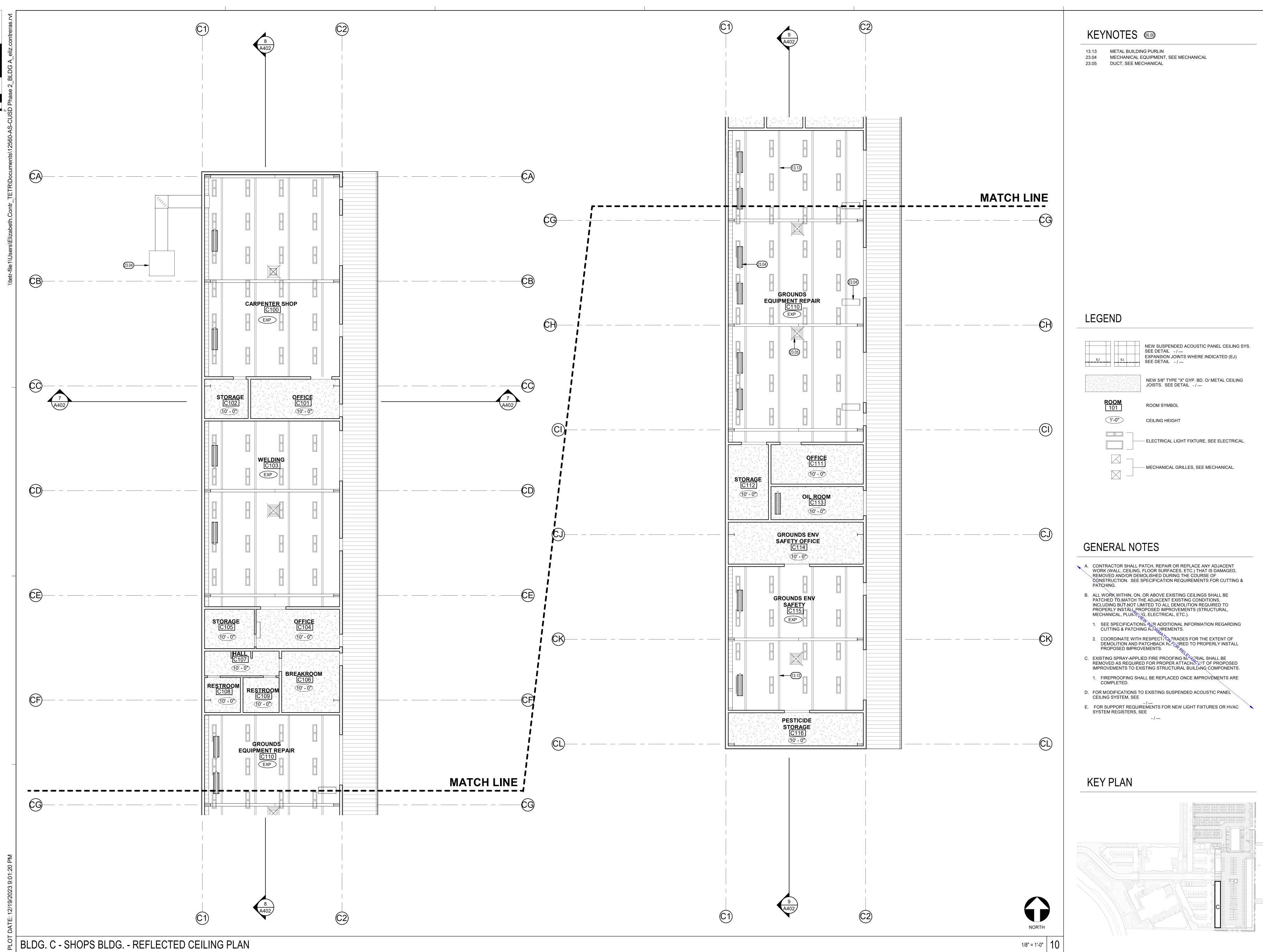
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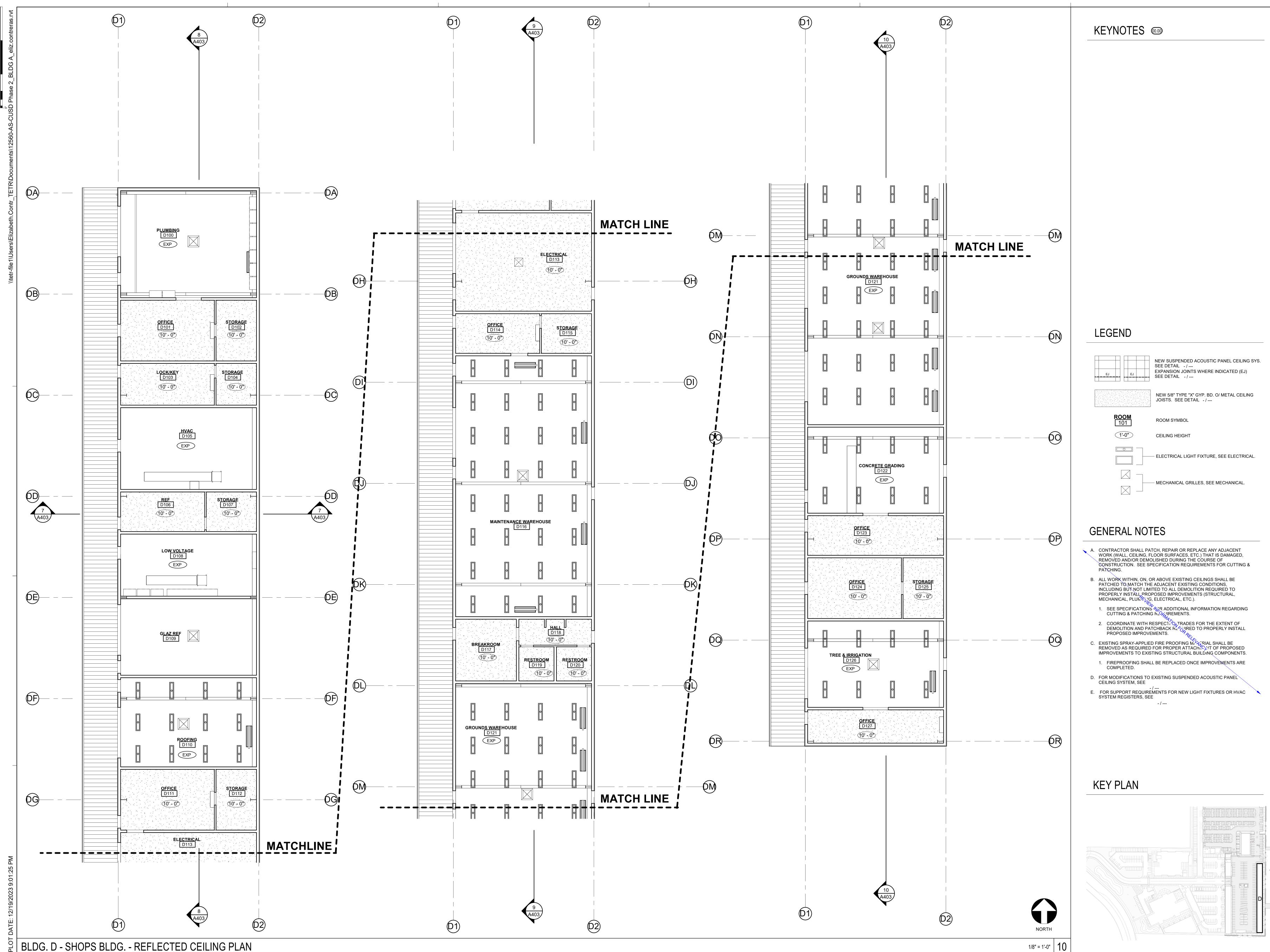
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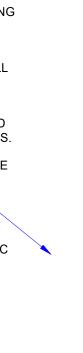
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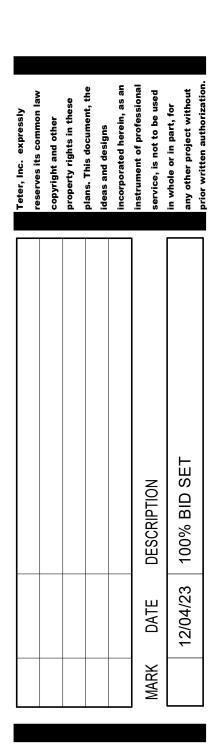


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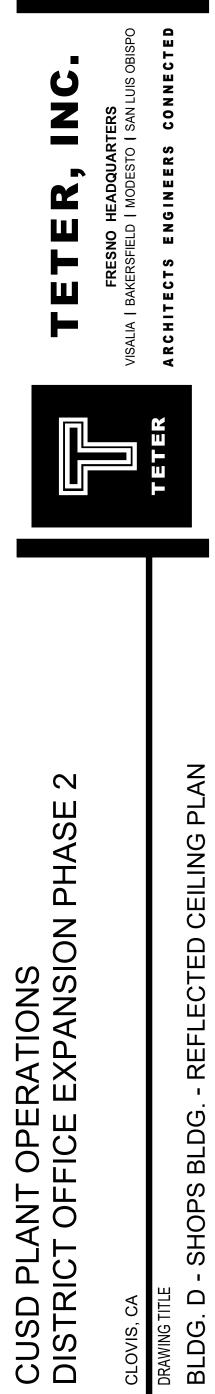












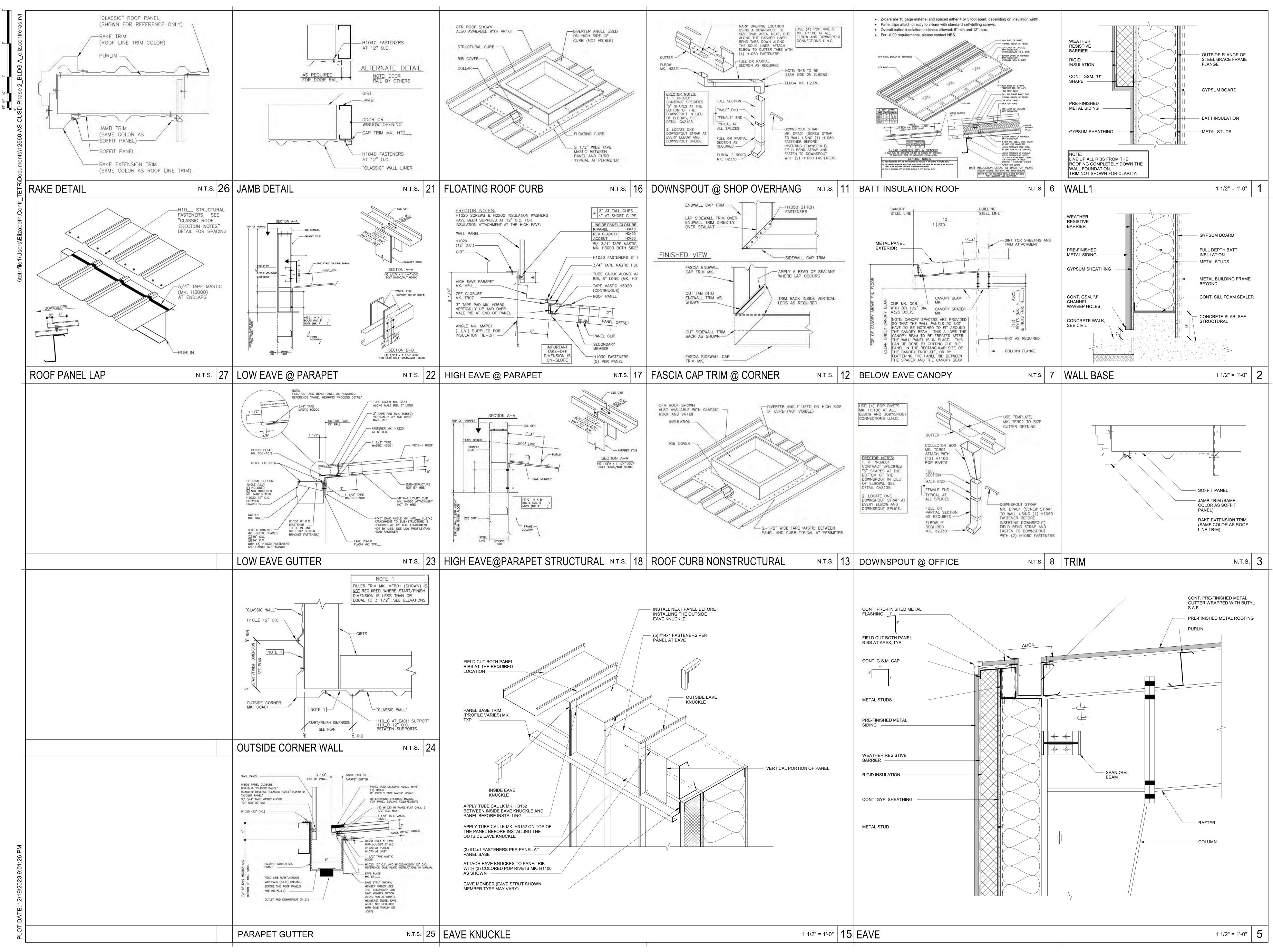
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### **GENERAL STRUCTURAL**

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE CALIFORNIA BUILDING CODE (CBC 2022) EDITION; AND ALL OTHER PUBLICATIONS AND STANDARDS LISTED HEREIN. WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM.
- CONTRACTOR SHALL READ AND FOLLOW ALL REFERENCED ICC-ES REPORTS OR IAPMO-ES REPORTS FOR INSTALLATION OF ITEMS SHOWN, ALTERNATE METHODS OF CONSTRUCTION MAY BE SUBMITTED FOR APPROVAL TO THE PROJECT COORDINATOR WITH APPLICABLE ICC-ES OR IAPMO-ES REPORTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL VERIFY ALL DIMENSIONS, CONDITIONS, AND ELEVATIONS BEFORE STARTING WORK OR FABRICATION ON NEW (N) OR EXISTING (E) CONSTRUCTION, ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, SPECIFICATIONS, GENERAL NOTES, AND THE SITE CONDITIONS SHALL BE IMMEDIATELY CALLED TO THE ATTENTION OF THE ENGINEER OF RECORD AND SHALL BE RESOLVED IN WRITING BEFORE PROCEEDING. ANY WORK PERFORMED BY THE CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE PERFORMED AT THE GENERAL CONTRACTORS'S RISK. ALL WORK SHALL BE PERFORMED IN A WORKMAN LIKE MANNER IN ACCORDANCE WITH ACCEPTED CONSTRUCTION PRACTICES.
- ALL WORK SHALL CONFORM TO THE LATEST APPLICABLE CONSTRUCTION SAFETY REQUIREMENTS OF O.S.H.A. AND ANY OTHER GOVERNMENTAL AGENCY HAVING JURISDICTION IN THE AREA OF THE WORK.
- THE CONTRACTOR SHALL USE ADEQUATE NUMBERS OF SKILLED WORKMAN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK.
- THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR. AND DOES NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR JOB SITE CONDITIONS. FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK. CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR, AND DOES NOT HAVE CONTROL OR CHARGE OF ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR ANY OF THEIR AGENTS OR EMPLOYEES, OR ANY OTHER PERSONS PERFORMING ANY OF THE CONSTRUCTION WORK. THE CONTRACTOR AGREES TO INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
- THE STRUCTURAL SYSTEMS HAVE BEEN DESIGNED TO RESIST CODE REQUIRED VERTICAL AND LATERAL FORCES AFTER THE CONSTRUCTION OF ALL STRUCTURAL ELEMENTS HAS BEEN COMPLETED. AS PRESCRIBED BY THE GOVERNING BUILDING CODES AND IN ACCORDANCE WITH STANDARD ENGINEERING PRACTICES. NO SPECIAL PROVISIONS HAVE BEEN MADE FOR CARRYING CONCENTRATED LOADS FROM STORAGE AND HANDLING OF CONSTRUCTION MATERIALS OR FROM OPERATION OF CONSTRUCTION EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE'S STABILITY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO JOB SITE SAFETY; ERECTION MEANS, METHODS AND SEQUENCES; TEMPORARY SHORING; FORMWORK AND BRACING; USE OF EQUIPMENT, AND CONSTRUCTION PROCEDURES. PROVIDE ADEQUATE RESISTANCE TO LOADS ON THE STRUCTURES DURING CONSTRUCTION PER DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION (SEI/ASCE 37-14 (R2019)).
- STRUCTURAL OBSERVATION BY THE ENGINEER OF RECORD DOES NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITY FOR BUILDING THE PROJECT. CONTROLLING THE PROGRESS, PROVIDING SAFE WORKING CONDITIONS, AND CORRECTING ANY DEVIATIONS FROM PROJECT REQUIREMENTS. SUCH OBSERVATIONS ARE NOT TO BE CONSTRUED AS INSPECTION OF THE WORK. RESPONSIBILITY FOR RESOLUTION OF ANY ITEMS NOTED DURING OBSERVATION AS NOT BEING IN CONFORMANCE WITH THE CONTRACT DOCUMENTS RESTS WITH THE CONTRACTOR, SUBJECT TO REVIEW AND APPROVAL BY THE ENGINEER OF RECORD.
- THE DETAILS ON THESE DRAWINGS SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY SHOWN OTHERWISE. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED, DETAILS OF A CHARACTER SIMILAR TO THOSE SHOWN SHALL BE USED, SUBJECT TO REVIEW BY THE ENGINEER OF RECORD.
- 10. THE TYPICAL DETAILS SHOWN ON THE TYPICAL DETAIL SHEETS SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY SHOWN OTHERWISE. WHERE NO DETAIL IS SHOWN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
- 11. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES. 12. OPENINGS, POCKETS, ETC., SHALL NOT BE PLACED IN SLABS, PILASTERS, OR WALLS
- UNLESS DETAILED ON THE STRUCTURAL DRAWINGS. FOR OPENINGS NOT SHOWN AND/OR DETAILED ON THE STRUCTURAL DRAWINGS AND WHICH PENETRATE STRUCTURAL ELEMENTS, OBTAIN APPROVAL FROM THE ENGINEER OF RECORD BEFORE PROCEEDING WITH WORK.
- 13. IT IS THE INTENTION OF THESE DRAWINGS TO PROVIDE FOR THE FOLLOWING CONTINUITIES: ALL ROOF AND FLOOR STRUTS SHALL BE CONTINUOUSLY CONNECTED FOR THE LENGTH OF THE ROOF OR FLOOR SYSTEM.
- ALL WALL BRACING AND/OR SHEAR PANELS SHALL BE CONNECTED TO THE ROOF AND/OR FLOOR STRUTS. IF THE DETAILS WHICH REFLECT THESE CONTINUITIES ARE NOT EVIDENT ON THE DRAWINGS, THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD FOR CLARIFICATION
- 14. FRAME OPENINGS AND SUPPORT MISCELLANEOUS EQUIPMENT AS DETAILED ON THE DRAWINGS. WHERE NO DETAILS ARE PROVIDED, OBTAIN APPROVAL FROM THE ENGINEER OF RECORD BEFORE PROCEEDING WITH WORK.
- 15. ALL EXTERIOR GLAZING AND FRAMES SHALL BE DESIGNED TO RESIST THE WIND LOADS PRESENTED IN THE "BASIS OF DESIGN" SPECIFICATION.
- 16. LATERALLY BRACE ALL SUSPENDED EQUIPMENT AND CEILINGS IN CONFORMANCE WITH THE BUILDING CODE
- 17. IT IS THE INTENT OF THESE PLANS TO PROVIDE DETAILS OF CONSTRUCTION NECESSARY TO GUIDE THE GENERAL CONTRACTOR WITH STRUCTURAL ASPECTS OF THE PROJECT ONLY. ARCHITECTURAL FEATURES SHALL BE COORDINATED WITH THE OWNER.
- 18. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS. PRIMARY STRUCTURAL ELEMENTS ARE DIMENSIONED ON STRUCTURAL PLANS AND DETAILS AND OVERALL LAYOUT OF STRUCTURAL PORTION OF WORK. SOME SECONDARY ELEMENTS ARE NOT DIMENSIONED SUCH AS WALL CONFIGURATIONS, INCLUDING EXACT DOOR AND WINDOW LOCATIONS, ALCOVES, SLAB SLOPES AND DEPRESSIONS, CURBS, ETC. VERTICAL DIMENSIONAL CONTROL IS DEFINED BY ARCHITECTURAL WALL SECTIONS AND BUILDING SECTIONS STRUCTURAL DETAILS SHOW DIMENSIONAL RELATIONSHIPS TO CONTROL DIMENSION DEFINED BY ARCHITECTURAL DRAWINGS. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE DIMENSIONAL INFORMATION CONTAINED IN BOTH ARCHITECTURAL AND STRUCTURAL DRAWINGS.

19. SEE ALSO PROJECT MANUAL

### **BASIS OF DESIGN**

- 1. CODE: ASCE 7-16 AND CBC 2022 2. DESIGN LOADS: ROOF DEAD LOAD------SEE PLANS ROOF LIVE LOAD--------SEE PLANS (ROOF LIVE LOAD MAY BE REDUCED PER CBC SECTION 1607.14.2 FLOOR DEAD LOAD-------SEE PLANS FLOOR LIVE LOAD-------SEE PLANS FLOOR LIVE LOAD MAY BE REDUCED PER CBC SECTION 1607.12.1 FLOOD HAZARD----------N/A EXTERIOR WALL------22 PSF INTERIOR WALL -------15 PSF ISMIC FACTORS: SF **RISK CATEGORY-IMPORTANCE FACTOR---**-10 ---0.529 ---0.212 SITE CLASS----SDS---0 486 SD1------N/A SEISMIC DESIGN CATEGORY --SEISMIC RESPONSE COEFFICIENT(S), Cs-----PER M.B.M. RESPONSE MODIFICATION FACTOR(S), R-----PER M.B.M. SEISMIC FORCE RESISTING SYSTEM(S)-----PER M.B.M. DESIGN BASE SHEAR (EAST-WEST)------ PER M.B.M. DESIGN BASE SHEAR (NORTH-SOUTH)------ PER M.B.M. SYSTEM OVERSTRENGTH FACTOR, Ω-----PER M.B.M. DEFLECTION AMP. FACTOR, Cd--------PER M.B.M. REDUNDANCY FACTOR. p-------PER M.B.M. ANALYSIS PROCEDURE USED-------PER M.B.M. HORIZONTAL STRUCTURAL IRREGULARITITES---PER M.B.M. VERTICAL STRUCTURAL IRREGULARITIES-----PER M.B.M. LOCATION OF BASE-----------TOP OF SLAB WIND FACTORS: **RISK CATEGORY----**ULTIMATE DESIGN WIND SPEED--------94 MPH
  - WIND EXPOSURE ---INTERNAL PRESSURE COEFFICIENT-----PER M.B.M.
- 5. THE SCOPE OF THIS PROJECT IS LIMITED TO PROVIDING FOUNDATION DESIGN FOR THE PRE-ENGINEERED METAL BUILDING (BY METAL BUILDING MAUFACTURER (M.B.M.). EXTERIOR METAL STUD DESIGN. SUPPORT AND DESIGN FOR INTERIOR STAIRS/ELEVATOR, AND PROVIDING SUPPORT/ANCHORAGE FOR MEP EQUIPMENT

### CONTRACTOR RESPONSIBILITY

CONTRACTOR RESPONSIBILITY - CBC 2022 SECTION 1704.4: EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND- OR SEISMIC- FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR A WIND- OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS (CBC SECTION 1704.3) SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.

### STRUCTURAL OBSERVATION PROGRAM

- 1. STRUCTURAL ENGINEER OF RECORD SHALL PROVIDE STRUCTURAL OBSERVATION PER **CBC 1704.6**. CONTRACTOR SHALL NOTIFY STRUCTURAL ENGINEER 48 HOURS PRIOR TO COMPLETION OF THE FOLLOWING TO ARRANGE FOR PERIODIC OBSERVATION: A. FOUNDATION AND SLAB REINFORCING PRIOR TO PLACEMENT OF CONCRETE.
- OBSERVED DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE OWNER'S REPRESENTATIVE, SPECIAL INSPECTOR, CONTRACTOR, AND BUILDING OFFICIAL. THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFYING ANY REPORTED DEFICIENCIES WHICH, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE. HAVE NOT BEEN RESOLVED. THE STRUCTURAL OBSERVER SHALL MAKE ADDITIONAL SITE VISITS AS NECESSARY TO VERIFY THAT ALL REPORTED DEFICIENCIES HAVE BEEN SATISFACTORILY CORRECTED.

### SUBMITTAL/SPECIAL CONDITIONS

- 1. PRIOR TO COMMENCEMENT OF EXCAVATION FOR FOUNDATIONS (AT LEAST 48 HOURS) THE CONTRACTOR IS TO CONTACT THE GEOTECHNICAL ENGINEER, WHO IS TO ADVISE THE BUILDING OFFICIAL IN WRITING THAT: THE BUILDING PAD WAS PREPARED AND COMPACTED IN ACCORDANCE WITH THE SOILS REPORT RECOMMENDATIONS. ADDITIONALLY THAT THE FOUNDATION GRADING WAS PERFORMED IN CONFORMANCE WITH THE SOILS REPORT RECOMMENDATIONS AND APPROVED PLANS. A COPY OF THE REPORT SHALL BE GIVEN TO THE STRUCTURAL ENGINEER OF RECORD.
- 2. PRIOR TO REQUESTING A FOUNDATION INSPECTION (AT LEAST 48 HOURS) THE CONTRACTOR IS TO CONTACT THE GEOTECHNICAL ENGINEER, WHO IS TO ADVISE THE BUILDING OFFICIAL IN WRITING THAT: THE BUILDING FOUNDATION FOOTING EXCAVATION DEPTH, BACKFILL MATERIALS AND DRAINAGE SUBSTANTIALLY CONFORMS WITH THE SOILS REPORT RECOMMENDATIONS AND APPROVED PLANS. A COPY OF THE REPORT SHALL BE GIVEN TO THE STRUCTURAL ENGINEER OF RECORD.
- 3. STEEL FABRICATORS WHO PERFORM WORK UNDER A CERTIFICATION PROGRAM (SUCH AS AISC) ARE TO SUBMIT COPIES OF THEIR APPROVAL. CBC SEC. 1704.2.5.
- 4. SPECIAL INSPECTION REPORTS ARE TO BE SUBMITTED DIRECTLY TO THE ENFORCEMENT AGENCY PER CBC SEC. 1704.2.4 (WITH COPIES TO STRUCTURAL ENGINEER OF RECORD, GENERAL CONTRACTOR AND OWNER).
- 5. SPECIAL INSPECTORS BACKGROUND AND QUALIFICATIONS SHALL BE FORWARDED TO THE BUILDING DEPARTMENT AT LEAST 3 DAYS BEFORE ANY INSPECTIONS ARE PERFORMED.
- 6. THE FOLLOWING SHOP DRAWINGS/SUBMITTALS SHALL BE PROVIDED FOR REVIEW BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO FABRICATION OR DELIVERY.
  - A. CONCRETE MIX DESIGN B. REINFORCING STEEL

A. NONE

- STRUCTURAL STEEL D. COLD FORMED METAL FRAMING & ACCESSORIES E. CONTRACTORS STATEMENT OF RESPONSIBILITY
- 7. PRODUCT SUBSTITUTIONS MAY BE ALLOWED ONLY IF THEY MEET THE REQUIREMENTS OF THESE SHEET SPECIFICATION AND THE PROJECT MANUAL, AND IF COMPLETE WRITTEN ENGINEERING DATA FOR EACH CONDITION REQUIRED FOR THIS PROJECT IS PROVIDED TO THE STRUCTURAL ENGINEER OF RECORD TWO WEEKS PRIOR TO BID DATE AND APPROVED IN WRITTEN ADDENDA BY THE ARCHITECT. DATA IS TO INDICATE CODE BASIS BY YEAR, AUTHORITY FOR STRESSES AND STRESS INCREASES, IF ANY, AND AMOUNT OF EXPECTED DEFLECTION FOR FLEXURAL MEMBERS UNDER (1) TOTAL LOAD AND (2) LIVE LOAD ONLY. ALL INCREASED COSTS IN MECHANICAL, SPRINKLER. ELECTRICAL OR GENERAL INSTALLATION AND ANY ARCHITECTURAL OR STRUCTURAL REDESIGN RESULTING FROM SUBSTITUTION SHALL BE BORNE BY THE GENERAL CONTRACTOR.
- 8. SUBSTITUTIONS AFFECTING STRUCTURAL SAFETY, FIRE AND LIFE SAFETY OR ACCESS COMPLIANCE SHALL BE APPROVED BY DSA PRIOR TO FABRICATIONS OR USE.
- 9. INSTALLATION OF DEFERRED APPROVAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACT DRAWINGS, SPECIFICATIONS AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER IN RESPONSIBLE CHARGE AND APPROVED BY DSA. DEFERRED APPROVAL ITEMS ARE AS FOLLOWS:

| SPECIAL INSPECTION   |
|--|
| I. IN ACCORDANCE WITH CBC SECTION 110, SECTION 1704, AND SECTION 1705, OW<br>SHALL EMPLOY AN INDEPENDENT AGENCY TO PERFORM REQUIRED TESTS AND<br>SPECIAL INSPECTIONS DURING CONSTRUCTION [PER THE REQUIREMENTS OF C<br>CHAPTER 17, THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION, AND<br>CONTRACT DOCUMENTS] ON THE FOLLOWING TYPES OF WORK:  |
| 1.1. CONCRETE (PER CBC SECTION 1705.3 AND TABLE 1705.3) PLACEMENT OF CONCRETE (WHEN fc>2,500 PSI).   |
| <ul> <li>TAKING OF TEST SPECIMENS (WHEN fc&gt;2,500 PSI).</li> <li>PLACEMENT OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS.</li> <li>WELDING OF REINFORCING STEEL.</li> <li>EMBEDDED BOLTS IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE.</li> </ul>  |
| STRESSING AND GROUTING OF TENDONS.<br>SHAPE, LOCATION AND DIMENSIONS OF FORMWORK.<br>ERECTION OF PRECAST MEMBERS.  |
| <ul> <li>A MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.</li> <li>IN-SITU STRENGTH PRIOR TO TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.</li> <li>USE OF REQUIRED DESIGN MIX.</li> </ul>  |
| 1.2. STRUCTURAL STEEL (PER CBC SECTION 1705.2, AISC 360 CHAPTER N, AND A<br>341 CHAPTER J).  |
| 1.2.1 INSPECTION OF WELDING FOR MEMBERS AND CONNECTIONS NOT PAR<br>OF THE LFRS (PER AISC 360 SECTION N5.4 TABLE N5.4-1, TABLE 5.4-2, A<br>TABLE N5.4-3).   |
| 1.2.1.1 EXCEPTIONS: NO EXCEPTIONS<br>1.2.2 INSPECTION OF WELDING FOR MEMBERS AND CONNECTIONS PART OF<br>THE LFRS (PER AISC 341 SECTION J6, TABLE J6-1, TABLE J6-2, AND TAB<br>J6-3).   |
| <ul> <li>1.2.2.1 EXCEPTIONS: NO EXCEPTIONS</li> <li>1.2.3 INSPECTION OF HIGH STRENGTH BOLTING NOT PART OF THE<br/>LFRS (PER AISC 360 SECTION N.5.6, TABLE N5.6-1, TABLE 5.6-2, AND</li> </ul>  |
| TABLE N5.6-3).<br>1.2.3.1 EXCEPTIONS: NO EXCEPTIONS<br>1.2.4 INSPECTION OF HIGH STRENGTH BOLTING PART OF THE LFRS (PER AIS<br>341 SECTION J7, TABLE J7-1, TABLE J7-2, AND TABLE J7-3).   |
| <ul> <li>1.2.4.1 EXCEPTIONS: NO EXCEPTIONS</li> <li>1.2.5 INSPECTION OF OTHER TASKS NOT PART OF THE LFRS (PER AISC 360 SECTION N5.7).</li> </ul>   |
| <ul> <li>1.2.5.1 EXCEPTIONS: NO EXCEPTIONS</li> <li>1.2.6 INSPECTION OF OTHER STEEL STRUCTURES PART OF THE LFRS (PER<br/>AISC 341 SECTION J8 AND TABLE J8-1).</li> </ul>   |
| <ul> <li>1.2.6.1 EXCEPTIONS: NO EXCEPTIONS</li> <li>1.2.7 INSPECTION OF COMPOSITE CONSTRUCTION (PER AISC 341 SECTION MAND TABLE N6.1, AISC 341 SECTION J9, TABLE J9-1, TABLE J9-2, AND TABLE J9-2, AND TABLE J9-1, TABLE J9-2, AND TABLE J9-1, TABLE J9-2, AND TABLE J9-2, AND TABLE J9-1, TABLE J9-2, AND TABLE J9-2, AND TABLE J9-2, AND TABLE J9-2, AND TABLE J9-1, TABLE J9-2, AND TABLE J9-2, AND TABLE J9-1, TABLE J9-2, AND TABLE J9-2, AND TABLE J9-2, AND TABLE J9-1, TABLE J9-2, AND TABLE J9-2, AND TABLE J9-1, TABLE J9-2, AND TABLE J9-2, AND TABLE J9-1, TABLE J9-1, TABLE J9-2, AND TABLE J9-1, TABLE J9-1, TABLE J9-1, TABLE J9-2, AND TABLE J9-1, TAB</li></ul> |
| J9-3).   |
| 1.2.8 INSPECTION OF STEEL JOIST AND JOIST GIRDERS (PER CBC 1705.2.3 AI     AWS D1.1)   |
| <ul> <li>1.2.8.1 EXCEPTIONS: NO EXCEPTIONS</li> <li>1.2.9 INSPECTION OF COLD-FORMED STEEL TRUSSES SPANNING 60 FT. OR<br/>GREATER (PER CBC 1705.2.4 AND AWS D1.3)</li> <li>1.2.9.1 EXCEPTIONS: NO EXCEPTIONS</li> </ul>   |
| <ul> <li>1.3. POST-INSTALLED ANCHORS IN CONCRETE/MASONRY</li> <li>INSTALLATION OF EXPANSION ANCHORS.</li> <li>INSTALLATION OF EPOXY ANCHORS.</li> <li>INSTALLATION OF SCREW ANCHORS.</li> </ul>  |
| <ul> <li>1.4. STRUCTURAL MASONRY</li> <li>1.4.1. LEVEL B (PER CBC SECTION 1705.4 AND ACI 530-13 TABLE 3.1.2)</li> <li>COMPLIANCE WITH THE APPROVED SUBMITTALS.</li> <li>PROPORTIONS OF SITE-PREPARED MORTAR.</li> </ul>  |
| <ul> <li>CONSTRUCTION OF MORTAR JOINTS.</li> <li>GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES.</li> <li>LOCATION OF REINFORCEMENT, CONNECTORS, PRESTRESSING<br/>TENDONS AND ANCHORAGES.</li> </ul>  |
| PRESTRESSING TECHNIQUE. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY.   |
| GROUT SPACE IS CLEAN. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES.  |
| <ul> <li>PLACEMENT OF REINFORCEMENT, CONNECTORS, PRESTRESSING<br/>TENDONS AND ANCHORAGES.</li> <li>PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT</li> </ul>  |
| FOR BONDED TENDONS.  CONSTRUCTION OF MORTAR JOINTS.  SIZE AND LOCATION OF STRUCTURAL ELEMENTS.   |
| TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF<br>ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR<br>OTHER CONSTRUCTION.   |
| <ul> <li>WELDING OF REINFORCEMENT.</li> <li>PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING<br/>COLD WEATHER OR HOT WEATHER.</li> </ul>  |
| <ul> <li>APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.</li> <li>PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED<br/>TENDONS IS IN COMPLIANCE.</li> </ul>   |
| <ul> <li>PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED<br/>MORTAR JOINTS.</li> <li>OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS,<br/>AND/OR PRISMS.</li> </ul>   |
| 1.5. WOOD CONSTRUCTION (PER CBC SECTION 1705.5 AND 1705.12.2)  |
| <ul> <li>HIGH-LOAD DIAPHRAGMS.</li> <li>NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS<br/>WITHIN THE SEISMIC-FORCE RESISTING SYSTEM, INCLUDING DRAG STRUTS,<br/>BRACES, AND HOLD-DOWNS.</li> </ul>   |
| NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS TO<br>THE SEISMIC-FORCE RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS,<br>SHEAR PANELS AND DIAPHRAGMS WHERE THE FASTENER SPACING OF THE<br>SHEATHING IS 4 INCHES ON CENTER (o.c.) OR LESS.  |
| 1.6. SPRAYED FIRE-RESISTANT MATERIALS (PER CBC SECTION 1705.15)  |
| 1.7. MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS (PER CBC SECTION<br>1705.16)   |
| <ul> <li>1.8. SOILS (PER CBC SECTION 1705.6 AND TABLE 1705.6)</li> <li>ADEQUACY OF MATERIALS BELOW FOOTINGS.</li> <li>VERIFICATION OF EXCAVATIONS.</li> </ul>  |

VERIFICATION OF EXCAVATIONS. CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS. PROPER PLACEMENT AND COMPACTION OF CONTROLLED FILL. SUBGRADE PREPARATION.

- 2. THE CONTINUOUS AND/OR PERIODIC SPECIAL INSPECTION IS TO BE PERFORMED AS OUTLINED IN THE PLANS AND NOTES AS APPROVED BY THE ENFORCEMENT AGENCY PER CBC SECTION 1705 AND REFERENCED STANDARDS.
- ☐ 3. TESTING AND SPECIAL INSPECTION REPORTS SHALL BE PREPARED FOR EACH INSPECTION ITEM ON A DAILY BASIS WHENEVER WORK IS PERFORMED ON THAT ITEM FOLLOWING THE CONTINUOUS OR PERIODIC REQUIREMENTS SPECIFIED.
- 4. REPORTS SHALL INDICATE WHETHER THE WORK INSPECTED WAS DONE IN CONFORMANCE OR NONCONFORMANCE WITH APPROVED CONSTRUCTION DOCUMENTS. NONCONFORMITIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF NOT CORRECTED, THE NONCONFORMITIES SHALL BE BROUGHT TO THE ATTENTION OF THE GOVERNING CODE AUTHORITY AND THE ARCHITECT (STRUCTURAL ENGINEER) PRIOR TO THE COMPLETION OF THAT PHASE OF WORK. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTION AND CORRECTION OF NONCONFORMITIES SHALL BE
- ☑ 5. TESTING AND SPECIAL INSPECTION REPORTS SHALL BE DISTRIBUTED TO OWNER, CONTRACTOR, BUILDING OFFICIAL, ARCHITECT AND STRUCTURAL ENGINEER.

SUBMITTED UPON COMPLETION OF WORK.

6.FOR ADDITIONAL TESTING AND INSPECTION REQUIREMENTS SEE THE SPECIFICATIONS G100 TO G102.

### **BUILDING FOUNDATION AND PREPARATION**

A. SOIL CLASSIFICATION: LOOSE TO MEDIUM SILTY SAND

\* APPLY FACTOR OF SAFETY (FS) AS FOLLOWS:

FS = 2.0 FOR PASSIVE AND FRICTION IN COMBINATION

4. CONTRACTOR SHALL REVIEW AND INCORPORATE ALL RECOMMENDATIONS OF SOILS

ENGINEER OF RECORD IN THEIR GEOTECHNICAL ENGINEERING INVESTIGATION

5. A REPRESENTATIVE OF THE SOILS ENGINEER OF RECORD SHALL BE PRESENT DURING

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION PROCEDURES AND

ARE SUPPORTED BY THE COMPLETION OF INTERIOR FLOOR SYSTEMS. DO NOT

8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DESIGN AND PROVIDE ADEQUATE

BUILDING. PROVIDE TEMPORARY BRACING AS REQUIRED TO HOLD THE VARIOUS

SHORING. BRACING AND FORM WORK AS REQUIRED FOR THE CONSTRUCTION OF THE

DAMAGE TO BURIED LINES, TANKS, AND OTHER CONCEALED ITEMS. UPON DISCOVERY,

BACKFILL UNTIL 7 DAYS MINIMUM AFTER COMPLETION OF THE FLOOR SLABS.

9. CONTRACTOR SHALL EXERCISE EXTREME CARE DURING EXCAVATION TO AVOID

DO NOT PROCEED WITH WORK UNTIL RECEIVING WRITTEN INSTRUCTIONS FROM

10. PRIOR TO PLACEMENT OF REINFORCING STEEL, A REPRESENTATIVE OF THE SOILS

11. PROVIDE DRAINAGE AND DEWATERING AROUND ALL WORK TO AVOID WATER-

1. THE QUALITY AND DESIGN OF CONCRETE SHALL BE IN ACCORDANCE WITH THE

THEREIN SHALL ALSO CONFORM TO BUILDING CODE REQUIREMENTS FOR

2. CEMENT SHALL BE TYPE I/II (NON-CORROSIVE SOILS) AND SHALL MEET THE

CALIFORNIA BUILDING CODE (CBC 2022) EXCEPT ITEMS NOT SPECIFICALLY COVERED

4

4

2. GAP-GRADED MIX IS NOT PERMITTED FOR SLAB ON GRADE. COMPLY WITH

ULTIMATE COMPRESSIVE STRENGTH (fc) SHOWN BASED ON 28 DAY STRENGTH.

3. THE CONTRACTOR SHALL DESIGN CONCRETE MIXES THAT MEET OR EXCEED THE

INDICATE THE TARGET SLUMP, SLUMP TOLERANCE SHALL BE +/- 1 1/2 INCHES.

ANTICIPATED PLACEMENT METHODS, WEATHER, REBAR CONGESTION.

GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION (ACI 302.1R-15).

REQUIREMENTS OF THE CONCRETE MIX TABLE. THE MIX DESIGNS SHALL FACILITATE

ARCHITECTURAL FINISHES, CONSTRUCTION SEQUENCING, STRUCTURAL DETAILS, AND

ALL OTHER FACTOR REQUIRED TO PROVIDE A STRUCTURALLY SOUND, AESTHETICALLY

ACCEPTABLE FINISHED PRODUCT. WATER REDUCING ADMIXTURES WILL LIKELY BE REQUIRED TO MEET THESE REQUIREMENTS. CONCRETE MIX DESIGNS SHALL CLEARLY

4. TOTAL CEMENTITIOUS MATERIAL SHALL BE THE SUM OF ALL CEMENT PLUS FLYASH. AT

CONTAIN LESS THAN 5 1/2 SACKS OF CEMENTITIOUS MATERIAL PER CUBIC YARD,

5. FLYASH SHALL CONFORM TO ASTM C618 CLASS C OR F. MAXIMUM LOSS OF IGNITION

6. ADMIXTURES SHALL BE BY MASTER BUILDERS, W.R.GRACE, OR PRE-APPROVED

EQUAL. ALL MANUFACTURERS RECOMMENDATIONS SHALL BE FOLLOWED. NO

ADMIXTURES SHALL BE ADDED TO THE MIX DESIGN WITHOUT PRIOR APPROVAL OF THE

THE CONTRACTORS OPTION, FLYASH MAY BE SUBSTITUTED FOR CEMENT BUT SHALL

NOT EXCEED 15% BY WEIGHT OF TOTAL CEMENTITIOUS MATERIAL. MIXES SHALL NOT

f'c (psi) | SLUMP (in.) | w/c RATIO | MAX. AGG. SIZE

0.53

0.45 - 0.50

1 1/2" H.R.

1" H.R.

CONCRETE MIX, PLACEMENT, AND FINISH

3.000

4,000

1. ASTM C33 FOR HARD ROCK (H.R.) AGGREGATE (145pcf)

STRUCTURAL CONCRETE (ACI 318-19).

REQUIREMENTS SET FORTH IN THE TABLE BELOW:

AGGREGATE SPECIFICATION SHALL BE AS FOLLOWS:

ENGINEER OF RECORD SHALL INSPECT ALL FOOTING EXCAVATIONS FOR SUITABILITY

ELEMENTS IN PLACE UNTIL FINAL SUPPORT IS SECURELY ANCHORED.

FOR PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS, AND UTILITIES.

DO NOT BACKFILL AROUND THE EXTERIOR PERIMETER WALL UNTIL AFTER THE WALLS

ALL SITE CLEARING AND GRADING OPERATIONS TO TEST AND OBSERVE EARTHWORK

FS = 1.5 FOR PASSIVE OR FRICTION ONLY

FS = 1.2 FOR SEISMIC LOADING

3. FOR OVEREXCAVATION AND COMPACTION INFORMATION, SEE

ALLOWABLE CAPACITY

1800 PSF

3500 PSF

36 PSF

59 PSF

410 PSF\*

0.62\*

?

a. ALLOWABLE DESIGN PARAMETERS:

PARAMETER

DEAD + LIVE (CONTINUOUS)

ACTIVE PRESSURE (DRAINED)

AT REST PRESSURE (DRAINED)

PASSIVE PRESSURE (DRAINED)

COEFFICIENT OF FRICTION

SUBGRADE MODULUS

INDICATED IN NOTE #1 ABOVE.

CONSTRUCTION.

ARCHITECT

OF BEARING SURFACES.

SOFTENED FOOTINGS.

USE/LOCATION

SLAB-ON-GRADE

UNLESS NOTED OTHERWISE.

STRUCTURAL ENGINEER.

SHALL BE 1.0%

FOUNDATION

NOTES:

DEAD + LIVE (SPREAD)

SEISMIC / WIND

ON 1705, OWNER THE FOUNDATION DESIGN IS IN ACCORDANCE WITH THE RECOMMENDATIONS TESTS AND CONTAINED WITHIN THE GEOTECHNICAL ENGINEERING INVESTIGATION REPORT IENTS OF CBC PREPARED BY XXXX, INC. REPORT NO. XXXXXXXX, DATED MONTH XX, XXXX. ICTION, AND THE 2. THE SOIL PARAMETERS ARE AS FOLLOWS:

TENDONS

IENT OF

ER N, AND AISC **NS NOT PART** BLE 5.4-2, AND

NS PART OF 6-2, AND TABLE

RS (PER AISC

SECTION N6 J9-2, AND TABLE

1705.2.3 AND

60 FT. OR

BOLTS, AND SING

NG GROUT

DETAILS OF MES, OR

NRY DURING

PONENTS G STRUTS, PONENTS TO AR WALLS.

7. PLACE CONCRETE FOLLOWING ALL APPLICABLE ACI RECOMMENDATIONS. CONCRETE SHALL BE PROPERLY CONSOLIDATED PER GUIDE FOR CONSOLIDATION OF CONCRETE (ACI 309R-05) USING INTERIOR MECHANICAL VIBRATORS, DO NOT OVER VIBRATE. CONCRETE SHALL BE POURED MONOLITHICALLY BETWEEN CONSTRUCTION OR EXPANSION JOINTS. IF CONCRETE IS PLACED BY THE PUMP METHOD, HORSES SHALL BE PROVIDED TO SUPPORT THE HOSE, THE HOSE SHALL NOT BE ALLOWED TO RIDE ON

THE REINFORCING. WEATHER FORECASTS SHALL BE MONITORED AND ACI RECOMMENDATIONS FOR HOT AND COLD WEATHER CONCRETING SHALL BE FOLLOWED AS REQUIRED. CONCRETE SHALL NOT FREE FALL MORE THAN 5 FEET DURING PLACEMENT WITHOUT WRITTEN APPROVAL OF STRUCTURAL ENGINEER.

ALL MOLDS. ORNAMENTS. GROOVES, ETC., SHOWN ON DRAWINGS SHALL BE PROVIDED FOR IN THE FORM WORK BEFORE CONCRETE IS POURED.

9. REFER TO ARCHITECTURAL, MECHANICAL, AND/OR PLUMBING DRAWINGS FOR LOCATION AND SPACING OF ALL PLUMBING FIXTURES.

10. NO PIPES OR DUCTS SHALL BE PLACED IN CONCRETE FOOTINGS UNLESS SPECIFICALLY DETAILED.

11. CONSTRUCTION JOINTS NOT INDICATED ON THE DRAWINGS SHALL BE MADE AND LOCATED AS NOT TO IMPAIR THE STRENGTH OF THE STRUCTURE. PROVISION SHALL BE MADE FOR TRANSFER OF SHEAR AND OTHER FORCES THROUGH THE JOINTS.

12. CONTROL JOINTS (C.J.) SHALL BE LOCATED PER PLAN FOR PROPER SHRINKAGE CONTROL. JOINT SPACING SHALL BE ON A MAXIMUM 12' SPACING EACH WAY (144 SQ. FT.). WHERE POSSIBLE, CONTROL JOINTS ARE TO BE LOCATED AT INTERIOR NON-BEARING PARTITIONS AND AT HIGH OR LOW POINTS OF FLOOR SLOPES. SOFT CUTS FOR THE CONTROL JOINTS SHALL BE MADE IN THE SLAB NO LATER THAN 8 HOURS AFTER PLACEMENT.

13. ALL CONCRETE SHALL BE FINISHED PER THE PROJECT MANUAL

14. ALL CONCRETE SHALL BE CURED PER THE PROJECT MANUAL

15. NON-SHRINK GROUT SHALL BE MASTER BUILDERS "MASTERFLOW 555" OR PRE-APPROVED EQUAL. GROUT SHALL CONFORM TO CRD-C621 AND ASTM C1107 GRADE B WHEN TESTED AT A FLUID CONSISTENCY PER CRD-C611-85 FOR 30 MINUTES. GROUT MAY BE PLACED FROM A 25 SECOND FLOW TO A STIFF PACKING CONSISTENCY. FILL OR PACK ENTIRE SPACE UNDER PLATES OR SHAPES. FOLLOW MANUFACTURERS RECOMMENDATIONS FOR PREPARATION, INSTALLATION, AND CURING.

### CONCRETE REINFORCING AND ANCHORAGE

SHEET SPECIFICATIONS. 2. ALL REINFORCING SHALL BE NEW STOCK DEFORMED BARS CONFORMING TO **ASTM** A615 U.N.O. (A706 WHERE WELDING IS REQUIRED, SEE NOTE #6):

A. #3 BARS AND LARGER------ GRADE 60

3. ALL REBAR SHALL BE COLD BENT.

4. SPLICES IN REINFORCING STEEL SHALL BE LAPPED ACCORDING TO DETAIL U.N.O.

5. SEPARATE BARS 1 1/2 DIAMETERS OR 1" CLEAR, WHICHEVER IS GREATER. BARS INDICATED AS CONTINUOUS MAY BE FABRICATED IN CONVENIENT LENGTHS, STAGGER LAP SPLICE LOCATIONS A MINIMUM OF 24". FABRICATION DETAILS SHALL CONFORM TO **CRSI MANUAL OF STANDARD PRACTICE 2018 29TH EDITION.** 

6. WELDING OF REINFORCING SHALL BE ALLOWED ONLY WHERE DETAILED ON DRAWINGS. ALL REINFORCING THAT IS TO BE WELDED SHALL BE ASTM A706, GRADE 60, CONFORMING TO CBC 2022 SECTION 1705.3.1 AND IN ACCORDANCE WITH AWS SPECIFICATIONS (AWS D1.4/D1.4M-2018). FABRICATION DETAILS SHALL CONFORM TO DETAILS AND DETAILING OF CONCRETE REINFORCEMENT (ACI 315-99) AND CRSI MANUAL OF STANDARD PRACTICE 2018 29TH EDITION (w/ 2019 ERRATA). WELDING SHALL NOT BE DONE WITHIN TWO BAR DIAMETERS OF ANY BENT PORTION OF A BAR WHICH HAS BEEN BENT COLD. WELDING OF CROSSING BARS SHALL NOT BE PERMITTED FOR ASSEMBLY OF REINFORCEMENT UNLESS AUTHORIZED BY THE STRUCTURAL ENGINEER.

7. FIELD SPLICES NOT ORIGINALLY SHOWN ON DRAWINGS WILL BE PERMITTED ONLY WITH APPROVAL OF THE ENGINEER.

8. MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS: CAST AGAINST EARTH (EXCEPT SLABS ON GRADE)------3'

SLABS ON GRADE------

| • | ΕX | POSED TO EARTH OR WEATHER |     |
|---|----|---------------------------|-----|
|   | •  | #5 BARS AND SMALLER1      | 1/2 |
|   | •  | #6 BARS AND LARGER        | 2   |

 NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND SLABS, WALLS, JOISTS #11 BARS AND SMALLER--------3/4" #14 AND #18 BARS----------1 1/2

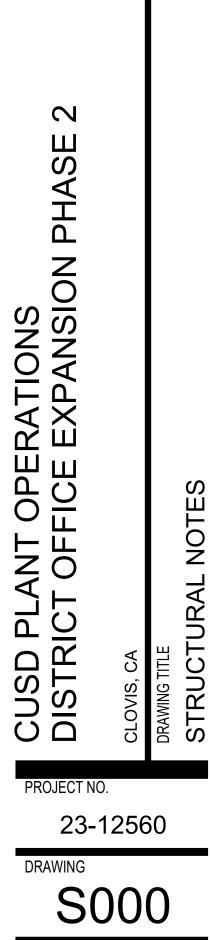
9. ALL ANCHOR RODS SHALL BE OF HEX HEAD TYPE CONFORMING TO ASTM F1554 GRADE 55 (U.N.O.) CLASS 2A WITH SUPPLEMENTARY REQUIREMENT NO. 1 INCLUDING COLOR MARKING TYPICAL U.N.O. FOR EXPOSED ENDS, PROVIDE COLOR CODING PER ASTM F1554 OR PERMANENT IDENTIFICATION MARKS PER ASTM F1554 SUPPLEMENT #2 AND #3 ON EACH ROD FOR IDENTIFICATION.

10. ALL REINFORCING STEEL, ANCHOR RODS, ANCHOR BOLTS, DOWELS AND OTHER INSERTS SHALL BE IN PLACE AND SHALL BE WELL SECURED IN POSITION PRIOR TO POURING CONCRETE.

# 1. CONCRETE SHALL BE AS SPECIFIED IN THE CONCRETE MIX, PLACEMENT AND FINISH







### CONCRETE POST-INSTALLED ANCHOR NOTES

POST-INSTALLED ANCHORS SHALL BE THE FOLLOWING: A. EPOXIED THREADED ROD ASSEMBLIES SHALL BE:

- a. HILTI HIT-RE 500 V3 EPOXY ICC REPORT NO. ESR-3814 (ISSUED: JAN. 2021, REVISED MARCH 2021) AS MANUFACTURED BY HILTI, INC., 7250 DALLAS PARKWAY; STE. 1000, PLANO, TEXAS 75024.
- MINIMUM EMBEDMENT DEPTHS SHALL BE PER CONTRACT DRAWINGS, PLANS, AND DETAILS.
- b. THREADED ROD SHALL BE **ASTM A36** U.N.O. B. EXPOXIED REBAR ASSEMBLIES SHALL BE:
- a. HILTI HIT-RE 500 V3 EPOXY ICC REPORT NO. ESR-3814 (ISSUED: JAN. 2021, REVISED MARCH 2021) AS MANUFACTURED BY HILTI, INC., 7250 DALLAS PARKWAY; STE. 1000, PLANO, TEXAS 75024.
- MINIMUM EMBEDMENT DEPTHS SHALL BE PER CONTRACT DRAWINGS, PLANS, AND DETAILS.
- b. REBAR SHALL BE **ASTM A615** GRADE 60. C. EXPANSION BOLT ASSEMBLIES SHALL BE:
- a. HILTI KWIK BOLT-TZ2 ASSEMBLY ICC REPORT NO. ESR-4266 (REISSUED: DECEMBER 2021, REVISED DECEMBER 17, 2021), AS MANUFACTURED BY HILTI, INC., 7250 DALLAS PARKWAY; STE. 1000, PLANO, TEXAS 75024.
- D. SCREW ASSEMBLIES SHALL BE: a. HILTI KWIK HUS-EZ ICC REPORT NO. ESR-3027 (REISSUED: DECEMBER 2021) AS MANUFACTURED BY HILTI, INC., 7250 DALLAS PARKWAY; STE. 1000, PLANO, TEXAS 75024.
- INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. HOLE SHALL BE DRY AND CLEANED WITH WIRE BRUSH AND PRESSURIZED AIR PRIOR TO INSTALLATION. FOR EPOXY APPLICATIONS. USE EQUIPMENT WHICH WILL ACCURATELY MIX AND DISPENSE THE COMPONENTS. THE REBAR OR ROD SHOULD BE ROTATED AS IT IS PUSHED INTO THE HOLE.
- ALL POST-INSTALLED ANCHORS SHALL BE INSPECTED BY AN APPROVED TESTING AND INSPECTION AGENCY AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ICC OR IAPMO REPORT AND CBC SECTION 1910A.5 TO THE TEST VALUES STATED IN THE TABLE BELOW.
- THE LOAD MAY BE APPLIED BY ANY METHOD THAT WILL EFFECTIVELY MEASURE THE TENSION IN THE ANCHOR, SUCH AS DIRECT PULL TEST WITH A HYDAULIC JACK. CALIBRATED SPRING-LOADING DEVICE, A TORQUE WRENCH CALIBRATED FOR USE WITH THE SPECIFIC ANCHOR, ETC.
- B. TEST FREQUENCY
- a. SILL PLATE; 10 PERCENT b. ALL OTHER STRUCTURAL APPLICATIONS; 100 PERCENT
- c. NON-STRUCTURAL APPLICATIONS (EQUIPMENT ANCHORAGE, ETC.); 50 PERCENT OR ALTERNATIVE BOLTS IN A GROUP, INCLUDING AT LEAST ONE HALF THE ANCHORS IN EACH GROUP.
- SHEAR DOWELS ACROSS COLD JOINTS IN SLABS ON GRADE, WHERE THE SLAB IS NOT PART OF THE LATERAL FORCE RESISTING SYSTEM, SHALL NOT BE REQUIRED.
- e. \*TF INDICATES A TEST FREQUENCY OF 10 PERCENT PER **1910A.5.3** EXCEPTION #2.
- C. TEST ACCEPTANCE
- HYDRAULIC RAM METHOD: ANCHORS TESTED WITH A HYDRAULIC JACK OR SPRING-LOADED DEVICES SHALL MAINTAIN THE TEST LOAD FOR A MINIMUM OF 15 SECONDS AND SHALL EXHIBIT NO DISCONCERNABLE MOVEMENT DURING THE TENSION TEST.
- b. FOR ADHESIVE ANCHORS. WHERE OTHER THAN THE BOND IS BEING TESTED. THE TESTING DEVICE SHALL NOT RESTRICT THE CONCRETE SHEAR CONE TYPE 10. WELDING: FAILURE MECHANISM FROM OCCURING.
- c. TORQUE WRENCH METHOD (MAY NOT BE USED WITH REBAR): ANCHORS TESTED WITH A CALIBRATED TORQUE WRENCH MUST ATTAIN THE SPECIFIED TORQUE WITHIN 1/2 TURN OF THE NUT. (SCREWS MUST ATTAIN THE SPECIFIED TORQUE WITHIN 1/4 TURN OF THE SCREW AFTER THE INITIAL SEATING OF THE SCREW HEAD.
- IF ANY ANCHOR FAILS TESTING, ALL ANCHORS OF THE SAME TYPE SHALL BE TESTED, WHICH ARE INSTALLED BY THE SAME TRADE NOT PREVIOUSLY TESTED UNTIL TWENTY CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL TEST FREQUENCY.

TEST LOADS

| _     |           |         |        |           |         |
|-------|-----------|---------|--------|-----------|---------|
| REBAR | ROD/SCREW | TENSION | TORQUE | (FT-LBS)  |         |
| SIZE  | DIA.      | (LBS)   | ROD    | EXP. BOLT | SCREW   |
|       | 1/4"      | -       | -      | -         | 18      |
|       | 3/8"      | -       | -      | 30        | 19, 40* |
| #4    | 1/2"      | -       | -      | 50        | 45      |
| #5    | 5/8"      | -       | -      | 40        | 85      |
| #6    | 3/4"      | -       | -      | 110       | 95      |
| #7    | 7/8"      | -       | -      | -         | -       |
| #8    | 1"        | -       | -      | 185       | -       |
|       | 1 1/4"    | -       | -      | -         | -       |

NOTE: FOR REBAR/ROD TENSION TEST LOADS SEE PLANS AND DETAILS. \* FOR 1 5/8" EMBED, USE 19; FOR 2 1/2"+ EMBED, USE 40.

- WHEN INSTALLING POST INSTALLED ANCHORS, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE EXISTING REINFORCEMENT AND THE POST-INSTALLED ANCHOR.
- ANY POST-INSTALLED ANCHOR SHOWN ON THE APPROVED CONTRACT DRAWINGS SHALL BE INSTALLED WITH SPECIAL INSPECTION IN ACCORDANCE WITH THE ICC OR IAPMO REPORT. ANY ITEMS THAT REQUIRE POST-INSTALLED ANCHORS BUT ARE NOT SPECIFICALLY SHOWN ON THE APPROVED CONTRACT DRAWINGS MUST BE IN ACCORDANCE WITH THE ICC OR IAPMO REPORT PRIOR TO BEING INSTALLED.

### STRUCTURAL STEEL

- 1. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED PER AISC **SPECIFICATIONS** FOR BUILDINGS AND SHALL CONFORM TO THE FOLLOWING, U.N.O.:
  - W SHAPES: ASTM A992 HSS SHAPES: ASTM A500, GRADE B • PIPE SHAPES: ASTM A53, GRADE B
  - ALL OTHER SHAPES: ASTM A36 PLATES AND BARS: ASTM A36
- 2. WIDE FLANGE MEMBERS THAT HAVE FLANGE THICKNESS EXCEEDING 2 INCHES SHALL CONFORM TO ASTM A6 SUPPLEMENTARY REQUIREMENT S30, CHARPY V-NOTCH IMPACT TEST FOR STRUCTURAL SHAPES - ALTERNATE CORE LOCATION. TEST SHALL MEET A MINIMUM AVERAGE VALUE OF 20 FT LB AT +70 DEG F. WIDE FLANGE MEMBERS THAT ARE PART OF THE LATERAL FORCE RESISTING SYSTEM THAT HAVE FLANGE THICKNESS EXCEEDING 1 1/2 INCHES SHALL ALSO CONFORM.
- 3. PLATES THAT HAVE 2 INCH THICKNESS AND THICKER SHALL CONFORM TO ASTM A6 SUPPLEMENTARY REQUIREMENT S5 CHARPY V-NOTCH IMPACT TEST. TEST SHALL
- MEET A MINIMUM AVERAGE VALUE OF 20 FT LB AT +70 DEG F. 4. FOR ANCHOR ROD REQUIREMENTS SEE CONCRETE SPECIFICATIONS.
- 5. WELDED THREADED STUDS, HEADED STUDS AND DEFORMED BAR ANCHORS A. WELDED THREADED STUDS MAY BE ASTM A36 (Fy=36 KSI). EQUIVALENT DIAMETER NELSON STUDS ARE ACCEPTABLE. ALL WELDS SHALL BE MADE AND INSPECTED IN
- ACCORDANCE WITH AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE NOTIFY THE ENGINEER OF RECORD IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND. (AWS D1.1/D1.1M:2015). 9. IT IS THE INTENT OF THESE DRAWINGS THAT PAD FOOTINGS ARE TO BE CENTERED B. ALL WELDED THREADED STUDS SHALL BE "CFL FULLY THREADED STUDS" BELOW THE STEEL BASE PLATES OF ALL COLUMNS IN THE METAL BUILDING, UNLESS MANUFACTURED BY NELSON STUD WELDING, INC. STUDS SHALL BE INSTALLED NOTED OTHERWISE. PER MANUFACTURERS RECOMMENDATIONS USING A NELSON WELD GUN, UNLESS NOTED OTHERWISE ON DETAILS. ALL WELDS SHALL BE MADE AND INSPECTED IN 10. ADDITIONAL REQUIREMENTS FOR METAL BUILDING MANUFACTURER: ACCORDANCE WITH AWS D1.1/D1.1M:2015.
- C. ALL WELDED HEADED STUDS SHALL BE "S3L SHEAR CONNECTORS" MANUFACTURED BY NELSON STUD WELDING, INC. ALL NELSON STUD ANCHORS SHALL BE 3/4" CONFORMING TO ASTM A108 WITH FABRICATION AND INSTALLATION IN CONFORMANCE WITH ICC ESR-2856 (REISSUED: NOVEMBER 2022) USING A NELSON WELD GUN, UNLESS NOTED OTHERWISE ON DETAILS. ALL WELDS SHALL BE MADE AND INSPECTED IN ACCORDANCE WITH AWS D1.1/D1.1M:2015.
- D. ALL DEFORMED BAR ANCHORS SHALL BE "D2L DEFORMED BAR ANCHORS" MANUFACTURED BY NELSON STUD WELDING, INC. CONFORMING TO ICC ESR-2907 (REISSUED: DECEMBER 2022). ALL DEFORMED BAR ANCHORS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS USING A NELSON WELD GUN. UNLESS NOTED OTHERWISE ON DETAILS. ALL WELDS SHALL BE MADE AND INSPECTED IN ACCORDANCE WITH AWS D1.1/D1.1M:2015.
- E. STUD BOLTS SHALL BE "NELSON" STUDS. ALL NELSON STUD ANCHORS SHALL BE 3/4" CONFORMING TO ASTM A108 WITH FABRICATION AND INSTALLATION IN CONFORMANCE WITH ICC ESR-2856 (REISSUED: NOVEMBER 2022).
- 6. ALL UNFINISHED NUTS AND BOLTS "MACHINE BOLTS" (M.B.) SHALL BE **ASTM A307** U.N.O. 7. WHERE HIGH STRENGTH STEEL BOLTS (H.S.B.) ARE INDICATED, ASSEMBLY SHALL COMPLY WITH THE SPECIFICATIONS FOR STRUCTURAL JOINTS AS ENDORSED BY THE
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) AS FOLLOWS: A. ASTM A325-N: ASSEMBLY SHALL COMPLY WITH REQUIREMENTS FOR "BEARING"
- TYPE CONNECTIONS WITH THREADS INCLUDED IN THE SHEAR PLANE. B. ASTM A325-SC : ASSEMBLY SHALL COMPLY WITH REQUIREMENTS FOR SLIP
- CRITICAL OR "FRICTION" TYPE CONNECTIONS. INSTALLATION SHALL FOLLOW EITHER "CALIBRATED WRENCH METHOD" OR "DIRECT TENSION INDICATOR". FAYING SURFACE CONDITIONS MUST MEET AISC SPECIFICATIONS. C. ALL ASTM A325 BOLTS SHALL CONFORM TO ASTM F1852.
- 8. HOLES, COPES OR OTHER CUTS OR MODIFICATIONS OF THE STRUCTURAL STEEL MEMBERS SHALL NOT BE MADE IN THE FIELD WITHOUT WRITTEN APPROVAL FROM THE
- STRUCTURAL ENGINEER OF RECORD. 9. ALL BOLT HOLES IN STEEL SHALL BE PUNCHED OR DRILLED. NO TORCHING OF HOLES ALLOWED. HOLES SHALL BE 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER, U.N.O.
- A. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS USING THE SHIELDED ARC PROCESS AND IN ACCORDANCE WITH AWS STANDARDS. JOINT DETAILS SHALL COMPLY WITH AWS REQUIREMENTS FOR JOINTS ACCEPTED WITHOUT QUALIFICATION TESTS.
- B. ALL WELDS SHALL BE UNIFORM IN SIZE AND APPEARANCE, AND FREE OF PINHOLES, POROSITY, UNDERCUTTING OR OTHER DEFECTS. ALL BUTT WELDS SHALL BE FULL PENETRATION.
- C. NO WELDING PERMITTED ON MEMBERS SUPPORTING LOADS.
- D. WELD METAL SHALL HAVE A NOMINAL TENSILE STRENGTH OF 70,000 PSI MINIMUM. E. ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE RESISTING SYSTEM SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LBS AT MINUS 20° F. AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION. SEE ELEVATION DRAWINGS FOR LOCATIONS OF THE LATERAL FORCE RESISTING SYSTEM.
- F. WHERE DEMAND CRITICAL WELDS HAVE FILLER METALS USED IN COMBINATION WITH FILLER METALS OF DIFFERENT PROCESSES (INTERMIX), PROVIDE CERTIFICATION OF CHARPY V-NOTCH COMPATIBILITY PER AISC 341-16 & AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE SEISMIC SUPPLEMENT (AWS D1.8/D1.8M:2016).
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERECTION AIDS AND JOINT PREPARATIONS THAT INCLUDE BUT ARE NOT LIMITED TO, ERECTION ANGLES, LIFT HOLES, AND OTHER AIDES, WELDING PROCEDURES, REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, WELD EXTENSION TABS, COPES, SURFACE ROUGHNESS VALUES AND TAPERS OF UNEQUAL PARTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLIANCE WITH ALL CURRENT OSHA REQUIREMENTS. 12. ALL STEEL SHALL BE THOROUGHLY CLEANED, REMOVING ALL LOOSE MILL SCALE,
- GREASE, DIRT AND FOREIGN MATTER BY SCRAPING OR SANDBLASTING.
- 13. ALL STEEL TO BE GREY PRIMER COLOR. DO NOT SHOP PAINT TO THE FOLLOWING: A. SURFACES WHICH WILL BE ENCASED IN CONCRETE OR MORTAR. PAINT EMBEDDED STEEL WHICH IS PARTIALLY EXPOSED ON EXPOSED PORTIONS AND INITIAL TWO INCHES OF EMBEDDED PORTIONS ONLY.
- B. SURFACES WITHIN 2 INCHES OF JOINTS TO BE WELDED IN FIELD INCLUDING TOP FLANGES OF MEMBERS SUPPORTING STEEL DECKING WHICH ARE TO BE WELDED.
- 14. WHERE STRUCTURAL STEEL IS NOTED TO BE GALVANIZED, IT SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123, ASTM A384, AND ASTM A385. ALL SURFACES WITHIN TWO INCHES OF ANY FIELD WELD LOCATION SHALL BE FREE OF MATERIALS THAT WOULD PREVENT PROPER WELDING OF PRODUCE OBJECTIONABLE FUMES.
- 15. FIELD TOUCH-UP OF PRIMED, PAINTED, AND GALVANIZED SURFACES SHALL BE PERFORMED TO REPAIR COATING ABRASIONS, AS WELL AS TO PROTECT ALL AREAS AT CONNECTIONS.
- 16. FINAL PAINT AND COLOR FOR EXPOSED STEEL SHALL BE PER OWNER'S SPECIFICATION.
- 17. IMMEDIATELY AFTER ERECTION, CLEAN FIELD WELDS, BOLTED CONNECTIONS, AND ABRADED AREAS OF SHOP PAINT. APPLY PRIMER TO EXPOSED AREAS WITH SAME MATERIAL AS USED FOR SHOP PRIMER.

### METAL BUILDING NOTES

- 1. STEEL FABRICATION AND ERECTION SHALL CONFORM TO CBC 2022 STANDARDS AND ACCEPTED PRACTICES AND PROVISIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL (AISC 15TH EDITION).
- 2. IT IS THE INTENT THAT THE BUILDING(S) PRIMARY GRAVITY AND LATERAL LOAD BEARING FRAMING MEMBERS BE DESIGNED AND FABRICATED BY A MANUFACTURED METAL BUILDING MANUFACTURER (M.B.M.). ALL STRUCTURAL MEMBERS AND THEIR CONNECTIONS SHALL BE DESIGNED AND FABRICATED BY THE M.B.M.
- 3. THE M.B.M. SHOP DRAWINGS AND CALCULATIONS ARE A DEFERRED SUBMITTAL ITEM. THE FOUNDATION DESIGN SHOWN IS APPROXIMATE BASED ON PRELIMINARY LOAD. REACTIONS FROM THE BUILDING COLUMNS AND SHALL BE CHECKED WITH THE FINAL COLUMN REACTIONS AS INDICATED IN THE MANUFACTURERS SHOP DRAWINGS PRIOR TO CONSTRUCTION. THE FOUNDATION SHOULD NOT BE INSTALLED PRIOR TO REVIEW
- OF THE SHOP DRAWINGS BY THE STRUCTURAL ENGINEER OF RECORD. 4. THE M.B.M. SHOP DRAWINGS SHALL INCLUDE COLUMN VERTICAL AND LATERAL LOAD
- SUMMARIES WHICH COMPILES THE APPLICABLE LOAD COMBINATIONS. 5. COLUMNS SHALL NOT RELY ON BASE FIXITY WITH THE FOUNDATIONS.
- 6. FOR STEEL AND WELDING REQUIREMENTS SEE STRUCTURAL STEEL SPECIFICATIONS.
- 7. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH METAL BUILDING MANUFACTURER PRIOR TO STARTING WORK. 8. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO STARTING WORK.
- A. FOR ALL BUILDINGS: 1. M.B.M. SHALL ACCOUNT FOR THE LOADING FROM THE MEP UNITS DEPICTED ON THE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. THESE UNITS ARE SUPPORTED FROM THE PEMB FRAMING.
- B. FOR THE ADMINISTRATION BUILDING: 1. LOADS FROM STAIRS ARE AS SHOWN ON THE MEZZANINE FRAMING PLAN ON S100.
- 2. LOADS FROM EXTERIOR METAL STUDS ARE AS SHOWN ON THE EXTERIOR SECTIONS ON S101. 3. SECOND FLOOR LIVE LOAD SHALL BE 80PSF.
- 4. COORDINATION BETWEEN M.B.M. AND TETER WILL BE REQUIRED FOR FRAMING AROUND THE ELEVATOR SHAFT. IT IS CURRENTLY UNKNOWN HOW MUCH GAP BETWEEN THE FLOOR AND THE ELEVATOR SHAFT THERE WILL BE.
- 5. ROOF FRAMING TO BE DESIGNED FOR FUTURE SOLAR PANEL SEISMIC LOAD OF C. METAL BUILDING MANUFACTURER SHALL BE RESPONSIBLE FOR THE DESIGN AND
- FABRICATION OF ALL COMPONENTS AND MATERIALS RELATED TO THE METAL BUILDING SYSTEM NOT OTHERWISE DETAILED OR SPECIFIED ON THE DRAWINGS.
- D. MEMBERS SIZES, FORCES, AND CONNECTION DETAILS COORDINATED WITH AND CONFORMING TO THE DRAWINGS SHALL BE FURNISHED BY THE MANUFACTURER. THE SHOP DRAWINGS AND CALCULATIONS SHALL BE SUPERVISED AND SIGNED BY A CALIFORNIA REGISTERED CIVIL OR STRUCTURAL ENGINEER.
- E. DESIGN SHALL TAKE INTO CONSIDERATION ALL CONCENTRATED LOADS(BEAMS, PURLINS, ETC.).
- F. SEE BASIS OF DESIGN FOR STRUCTURAL LOADING REQUIREMENTS NOT RELATED TO THE PRE-ENGINEERED METAL BUILDING. G. ALL ANCHOR RODS SHALL BE OF HEX HEAD TYPE CONFORMING TO ASTM F1554
- GRADE 55 (U.N.O.) CLASS 2A WITH SUPPLEMENTARY REQUIREMENT NO. 1 INCLUDING COLOR MARKING TYPICAL U.N.O. FOR EXPOSED ENDS, PROVIDE COLOR CODING PER ASTM F1554 OR PERMANENT IDENTIFICATION MARKS PER ASTM F1554 SUPPLEMENT #2 AND #3 ON EACH ROD FOR IDENTIFICATION.

### COLD FORMED STEEL FRAMING

- 1. ALL COLD FORMED STEEL STUDS, TRACKS AND JOIST 54 MIL (16 GAUGE) A SHALL CONFORM TO ASTM A-653, GRADE 50, WITH A MINIMUM YIELD OF 50 A G60 COATING UNLESS NOTED OTHERWISE. 2. ALL COLD FORMED STEEL STUDS, TRACKS AND JOIST 43 MIL (18 GAUGE)AI THICKNESS SHALL CONFORM TO ASTM A-653, GRADE 33, WITH A MINIMUM
- 33,000 PSI, AND A G60 COATING UNLESS NOTED OTHERWISE. 3. ALL COLD FORMED STEEL BRIDGING, END CLOSURES, AND ACCESSORIES CONFORM TO ASTM A-611, GRADE C, WITH A MINIMUM YIELD OF 33,000 PS
- NOTED OTHERWISE. FABRICATION AND ERECTION OF ALL COLD FORMED STEEL FRAMING MEM CONFORM TO AMERICAN IRON AND STEEL INSTITUTE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL (AISI S100-12) AND AMERICAN IRON AND STEEL INSTITUTE NORTH AMERIC STANDARD FOR COLD-FORMED STEEL FRAMING - GENERAL PROVISIONS
- 5. ALL COLD FORMED STEEL PRODUCTS AND ACCESSORIES SUCH AS STUDS JOISTS, AND MISCELLANEOUS COLD FORMED STEEL FRAMING MEMBERS I ON THESE DRAWINGS AND REQUIRED BY THE COLD FORMED STEEL MANU SHALL BE MANUFACTURED BY THE CURRENT MEMBERS OF **STEEL STUD** MANUFACTURERS ASSOCIATION (SSMA) WITH ICC-ES ER-3064P. ALTERNA FORMED STEEL FRAMING SYSTEMS MAY BE SUBMITTED FOR APPROVAL CONSIDERATION TO THE DESIGNER WITH A CURRENT ICC-ES OR IAPMO RI
- 6. WELDING OF ALL COLD FORMED STEEL FRAMING SHALL CONFORM TO AW D1.3/D1.3M:2008. REFER TO "STRUCTURAL STEEL NOTES" FOR ADDITIONAL REQUIREMENTS. ALL WELDS OF GALVANIZED STEEL SHALL BE TOUCHED U RICH PAINT. ALL WELDS OF CARBON SHEET STEEL SHALL BE TOUCHED UP
- ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT PERPENDICULAR MEMBERS, OR AS REQUIRED FOR AN ANGULAR FIT AGAI ABUTTING MEMBERS. MEMBERS SHALL BE HELD POSITIVELY IN PLACE UN FASTENED.
- FRAMING COMPONENTS MAY BE PRE-ASSEMBLED INTO PANELS PRIOR TO PREFABRICATED PANELS SHALL HAVE COMPONENTS ATTACHED IN A MAN PREVENT RACKING OF THE PANEL AND TO PREVENT DISTORTION IN ANY ! WHILE LIFTING AND TRANSPORTING.
- 9. TRACKS SHALL BE SECURELY ANCHORED TO THE SUPPORTING STRUCTU SHOWN ON THE DRAWINGS. AT TRACK BUTT JOINTS, ABUTTING PIECES OF SHALL BE SECURELY ANCHORED TO A COMMON STRUCTURAL ELEMENT, SHALL BE BUTT-WELDED OR SPLICED TOGETHER.
- 10. FOR TRACK CONNECTIONS AT INTERIOR NON-BEARING, NON-SHEAR WALL POWER DRIVEN FASTENERS PER / ISIM BE USED.
- INSTALL IN ACCORDANCE WITH THE DRAWINGS, THE MANUFACTURER'S RECOMMENDATIONS AND ICC-ES APPROVALS. A 5/8"Ø x 10" HEX HEAD AND @ 48" O.C. MAY BE USED IN LIEU OF A POWER DRIVEN FASTENER. SEE TYP
- 11. STUDS SHALL BE PLUMBED, ALIGNED AND SECURELY ATTACHED TO THE F WEBS OF BOTH UPPER AND LOWER TRACKS, U.N.O.
- 12. WALL STUD BRIDGING SHALL BE ATTACHED IN A MANNER TO PREVENT ST ROTATION. BRIDGING ROWS SHALL BE SPACED ACCORDING TO THE COLD STEEL MANUFACTURER'S REQUIREMENTS, BUT NOT GREATER THAN 4'-0" ( BRIDGING SHALL BE IN PLACE PRIORTO PLACING LOADINGS.
- 13. TEMPORARY BRACING OF ALL WALL PANELS SHALL BE PROVIDED UNTIL E COMPLETED.
- 14. ALL MEMBER TO MEMBER CONNECTIONS SHALL BE CONNECTED WITH MIN SCREWS WITH 7/16" DIAMETER PAN WASHER HEADS BY 1/2" LONG. UNLESS OTHERWISE. A 1/16" FILLET WELD BY 3/4" LONG MAY BE SUBSTITUTED FOR SCREWS AT THE CONTRACTOR'S OPTION. SEE ABOVE FOR ADDITIONAL W REQUIREMENTS.
- 15. SPLICES IN AXIALLY LOADED STUDS SHALL NOT BE PERMITTED
- 16. JOISTS SHALL BE LOCATED DIRECTLY OVER BEARING STUDS OR A LOAD D MEMBER SHALL BE PROVIDED AT THE TOP OF THE BEARING WALL.
- 17. WEB STIFFENERS SHALL BE PROVIDED AT REACTION POINTS AND/OR POIN CONCENTRATED LOADS WHERE INDICATED ON THE DRAWINGS.
- 18. JOIST BRIDGING SHALL BE PROVIDED WHERE INDICATED ON THE DRAWING BRIDGING SHALL BE IN PLACE PRIOR TO PLACING LOADS. 19. END BLOCKING SHALL BE PROVIDED WHERE JOIST ENDS ARE NOT OTHER
- RESTRAINED FROM ROTATION. 20. FASTENERS THROUGH FIRE TREATED SHEATHING SHALL BE OF HOT DIPPI COATED GALVANIZED. STEEL, STAINLESS, OR SILICONE BRONZE. FASTENE THAN NAILS, TIMBER RIVETS, WOOD SCREWS, & LAG SCREWS SHALL BE P BE MECHANICALLY DEPOSITED ZINC-COATED STEEL WITH COATING WEIGH ACCORDANCE WITH ASTM B695, CLASS 55 MIN. VERIFY WITH SHEATHING MANUFACTURER.
- 21. ALL SLIP CONNECTIONS, "VERTICLIP", "DRIFTCLIP", & "DRIFT TRAK" SHALL E MANUFACTURED BY THE STEEL NETWORK, INSTALLED PER MFR. GUIDELIN CONFORM TO ICC ESR 1903 DATED JUNE 1, 2014 AND ICC ESR 2049 DATED 2022

# POWER ACTUATED FASTENERS

- 1. POWER ACTUATED FASTENERS (PAF) SPECIFIED IN THESE DRAWINGS SHA FOLLOWS:
  - COLD FORMED STEEL TO CONCRETE: HILTI X-U (( COLD FORMED STEEL TO STRUCT. STEEL: HILTI X-U 15 (0 METAL DECK TO STRUCT. STEEL: SEE FOR MFR & SIZE
- 2. POWER ACTUATED FASTENERS SHALL BE INSTALLED IN ACCORDANCE WI DRAWINGS, MANUFACTURER'S RECOMMENDATIONS, AND ICC ESR-2269 R
- 3. CONCRETE APPLICATIONS: POWER ACTUATED FASTENERS SHALL NOT BE PRIOR TO CONCRETE ATTAINING FULL STRENGTH AS SPECIFIED IN THESE DRAWINGS. MINIMUM SPACING BETWEEN FASTENERS MUST BE 4 INCHES, MINIMUM EDGE DISTANCE MUST BE 3 INCHES, AND MINIMUM EMBEDMENT MUST BE 1 1/4 INCHES, UNLESS NOTED OTHERWISE.
- 4. STRUCT. STEEL APPLICATIONS: POWER ACTUATED FASTENERS MUST BE DRIVEN TO WHERE THE POINT OF THE FASTENER PENETRATES TROUGH THE STEEL BASE MATERIAL, UNLESS NOTED OTHERWISE. MINIMUM SPACING BETWEEN FASTENERS MUST BE 1 INCH AND MINIMUM EDGE DISTANCE MUST BE 1/2 INCH.

| AND THICKER<br>50,000 PSI, AND                      |
|---|
| AND LESS IN<br>M YIELD OF                           |
| S SHALL<br>SI, UNLESS                               |
| MBERS SHALL   |
| L MEMBERS<br>CAN<br>S (AISI S200-12).               |
| OS, TRACKS,<br>DESIGNATED                           |
| IUFACTURER<br>IATE COLD                             |
| REPORT.   |
| WS<br>AL WELDING<br>UP WITH ZINC-<br>IP WITH PAINT. |
| T TO<br>NINST<br>NTIL PROPERLY                      |
| O ERECTION.<br>NNER AS TO<br>MEMBER                 |
| JRE AS<br>DF TRACK<br>OR THEY                       |
| LS, APPROVED  |
|   |
| FLANGE OR   |
| TUD<br>D FORMED<br>' ON CENTER.                     |
| ERECTION IS   |
| INIMUM (2) #10<br>SS NOTED<br>IR THE<br>WELDING     |
| DISTRIBUTION  |
| INTS OF   |
| NGS.  |
| RWISE   |
| PEDZINC<br>NERS OTHER<br>PERMITTED TO<br>GHTS IN    |
| . BE<br>INES AND<br>D DECEMBER,                     |
| IALL BE AS  |
| (0.157"Ø)<br>(0.145"Ø)                              |
|   |
|   |
| E INSTALLED<br>E DRAWINGS.                          |

| &<br>L         | AND<br>ANGLE                             | FA<br>F.B.       | FIRE ALARM<br>FLAT BAR                       | 000               |                           |
|----------------|--|------------------|--|-------------------|---------------------------|
| -<br>@         | ANGLE                                    | F.B.<br>F.B.O.   | FURNISHED BY                                 | 0.C.<br>0.D.      | ON C<br>OUTS              |
| -<br>Ø         | CENTERLINE<br>DIAMETER OR ROUND          | F.D.             | OWNER/OTHERS<br>FLOOR DRAIN                  | OFF.              | DIME                      |
| L<br>ŧ         | PERPENDICULAR<br>POUND OR NUMBER         | F.D.C.           | FIRE DEPARTMENT<br>CONNECTION                | OFCI              | OWN<br>CONT               |
| E)             | EXISTING                                 | FDN.<br>F.E.     | FOUNDATION<br>FIRE EXTINGUISHER              | OFOI              | OWN                       |
| N)             | NEW                                      | F.E.C.           | FIRE EXTINGUISHER                            | O.F.R.D.          | OVER                      |
|                |  | F.F.             | CABINET<br>FACTORY FINISH                    | О.Н.              | DRAII<br>OPPC             |
| BV.<br>′C      | ABOVE<br>AIR CONDITIONING                | F.FLR.<br>F.G.   | FINISH FLOOR<br>FINISH GRADE                 | O.H.C.D.          | OVEF<br>DOOF              |
| СР             | ASPHALT CONCRETE<br>PAVING               | F.H.<br>FHMS     | FIRE HYDRANT<br>FLAT HEAD                    | O.H.M.S.          | OVAL<br>SCRE              |
| CST.<br>C.T.   | ACOUSTICAL<br>ACOUSTIC CEILING TILE      | FHWS             | MACHINE SCREW<br>FLAT HEAD WOOD SCREW        | O.H.W.S.          | OVAL<br>SCRE              |
| В.             | ANCHOR BOLT                              | FIN.             | FINISH                                       | OPNG.<br>OPP.     | OPEN                      |
| DA             | AMERICANS WITH<br>DISABILITIES ACT       | FIXT.            | FIXTURE                                      | 0/                | OVEF                      |
| DAAG           | ADA ACCESSIBLE                           | FLR.<br>FLASH.   | FLOOR(ING)<br>FLASHING                       | ORIG.<br>OVHD     | ORIG<br>OVEF              |
| DDL.           | GUIDELINES<br>ADDITIONAL                 | FLUOR.<br>F.O.   | FLUORESCENT<br>FACE OF                       | OWJ               | OPEN                      |
| DJ.<br>DJC.    | ADJUSTABLE<br>ADJACENT                   | F.O.C.<br>F.O.F. | FACE OF CONCRETE<br>FACE OF FINISH           | P.B.N.            | PLYW<br>NAILI             |
| .F.F.<br>.F.G. | ABOVE FINISH FLOOR<br>ABOVE FINISH GRADE | F.O.M.<br>F.O.S. | FACE OF MASONRY<br>FACE OF STUD              | P.E.N.            | PLYW                      |
| GG.<br>T.      | AGGREGATE<br>ALTERNATE                   | FRP              | FIBERGLASS REIN-<br>FORCED PANELING          | P.E.S.            | PLYW                      |
| LUM.           | ALUMINUM                                 | F.S.             | FIRE SPRINKLER(S)                            | P.I.V.            | SCRE<br>POST              |
| NOD.<br>P.C.   | ANODIZED<br>ACOUSTIC PANEL CEILING       | F.S.H.           | FIRE SPRINKLER HEAD                          | P.LAM.            | VALV<br>PLAS              |
| PROX.          | APPROXIMATE                              | FT.<br>FURR.     | FOOT/FEET<br>FURRING                         | P.L.<br>PL.       | PROF<br>PLATI             |
| RCH.<br>V      | ARCHITECT(URAL)<br>AUDIO VISUAL          | FUT.             | FUTURE                                       | PLAS.<br>PLYWD.   | PLAS<br>PLYW              |
|                | AUDIO VIGUAL                             | GA.              | GAUGE  | PR.               | PAIR                      |
| D.<br>EL.      | BOARD<br>BELOW                           | GALV.            | GALVANIZED                                   | PSF               | POUN<br>SQUA              |
| E.N            | BOUNDARY EDGE NAILING                    | G.B.<br>G.C.     | GRAB BAR<br>GENERAL CONTR.                   | PSI               | POUN<br>SQUA              |
| LDG.           | BUILDING                                 | GEN.<br>G.I.     | GENERAL<br>GALVANIZED IRON                   | PT.<br>P.T.D.     | POIN <sup>-</sup><br>PAPE |
| .K.<br>.KG.    | BLOCK<br>BLOCKING                        | GL.<br>GND.      | GLASS<br>GROUND                              | P.T.D.F.          | PRES<br>DOUG              |
| М.<br>ОТ.      | BEAM<br>BOTTOM                           | GR.<br>GYP.      | GRADE<br>GYPSUM                              | PTN.<br>PVC       | PART                      |
| RG.            | BEARING<br>BETWEEN                       | GTP.             | GTPSUM                                       |                   | POLY                      |
| .U.R.          | BUILT-UP ROOF(ING)                       | H.B.             |  | R.<br>R           | RADII<br>THER             |
| *              |  | HBD.             | HOSE BIBB<br>HARDBOARD                       | R.A.              | RESIS<br>RETU             |
| &G<br>AB.      | CURB AND GUTTER<br>CABINET               | H.C.<br>HD.      | HOLLOW CORE<br>HEAD                          | R.D.<br>REFL.     | ROOF<br>REFL              |
| .B.<br>EM.     | CARRIAGE BOLT<br>CEMENT                  | H.D.<br>HDR.     | HEAVY DUTY<br>HEADER                         | REFR.<br>REINF.   | REFR<br>REINF             |
| ER.<br>.F.     | CERAMIC<br>CUBIC FOOT                    | HDW.<br>HDWD.    | HARDWARE<br>HARDWOOD                         | REM.              | REMO                      |
| .l.<br>.J.     | CAST IRON<br>CONSTRUCTION JOINT          | H.M.<br>H.M.D.   | HOLLOW METAL<br>HOLLOW METAL DOOR            | REQD.<br>RESIL.   | REQU                      |
| .L.<br>.L.F.   | CENTER LINE<br>CHAIN LINK FENCE          |                  |  | R.H.<br>R.H.W.S.  | RIGH<br>ROUN              |
| .G.            | CEILING                                  | H.M.F.           | HOLLOW METAL FRAME                           | RM.               | SCRE<br>ROOM              |
| .0.<br>.R.     | CLOSET<br>CLEAR                          | HORIZ.<br>HR.    | HORIZONTAL<br>HOUR                           | R.O.<br>R.O.W.    | ROUG<br>RIGH              |
| RM.<br>//U     | CLASS ROOM<br>CONCRETE MASONRY UNIT      | HT.<br>HVAC      | HEIGHT<br>HEATING/VENTIL-<br>ATING/AIR COND- | RWD.<br>RWL       | REDV                      |
| TR.<br>OL.     | COUNTER<br>COLUMN                        | 10007            | ITIONING                                     | s                 | SOUT                      |
| ONC.<br>ONN.   | CONCRETE                                 | HWY              | HIGH WAY                                     | S.A.<br>S.C.      | SUPP<br>SOLIE             |
| ONSTR.         | CONSTRUCTION                             | I.D.             | INSIDE DIAMETER/                             | SCH.<br>S.D.      | SCHE<br>STOR              |
| ONT.<br>ONTR.  | CONTINUOUS<br>CONTRACTOR                 | INFO             | DIMENSION<br>INFORMATION                     | SECT.<br>SF       | SECT<br>SQUA              |
| PT.<br>RC      | CARPET<br>COLD ROLLED CHANNEL            | INSUL.<br>INT.   | INSULATION                                   | SHR.              | SHOV                      |
| TR.            | CENTER                                   |                  | INTERIOR                                     | SHTG.<br>SIM.     | SHEA<br>SIMIL             |
| TSK<br>.Y.     | COUNTERSUNK                              | JAN.<br>JT.      | JANITOR<br>JOINT                             | S.M.<br>S.O.G.    | SHEE<br>SLAB              |
| . Y.           | CUBIC TARD                               |                  |  | SPEC(S).<br>SPKR. | SPEC<br>SPEA              |
| .A.            | DISABLED ACCESS                          | KIT.<br>K.O.     | KITCHEN<br>KNOCK OUT                         | SQ.               | SQUA                      |
| BL.<br>EMO     | DOUBLE<br>DEMOLISH/                      | K.O.P.           | KNOCK OUT PANEL                              | S.S.<br>STA.      | STAT                      |
| -              | DEMOLITION                               | LAB.             | LABORATORY                                   | STC               | SOUN<br>MISSI             |
| .F.            | DRINKING FOUNTAIN<br>OR DOUGLAS FIR      | LAM.<br>LAV.     | LAMINATE<br>LAVATORY                         | STD.<br>STL.      | STAN<br>STEE              |
| ET.<br>IAG.    | DETAIL<br>DIAGONAL                       | LB(S)<br>L.B.    | POUND (POUNDS)<br>LAG BOLT                   | STOR.<br>STRUCT.  | STOR<br>STRU              |
| IA.<br>IM.     | DIAMETER<br>DIMENSION                    | L.F.             | LINEAL FOOT                                  | SUSP.<br>S.W.     | SUSP                      |
| ISP.<br>N.     | DISPENSER<br>DOWN                        | L.H.<br>LIB.     | LEFT HAND<br>LIBRARY                         | SYM.              | SYMN                      |
| P.<br>S        | DEEP<br>DOWN SPOUT                       | LT.<br>LT.WT.    | LIGHT<br>LIGHT WEIGHT                        | T.C.              | TOP                       |
| WG.(S)         | DRAWING                                  |                  |  | TEMP.<br>TMPD.    | TEMP<br>TEMP              |
| WR.            | DRAWER                                   | MACH.            | MACHINE                                      | T&G               | TONG                      |
|                | EAST                                     | MAINT.<br>MAX.   | MAINTENANCE<br>MAXIMUM                       | THD.<br>THK.      | THRE<br>THIC              |
| A.<br>.F.      | EACH<br>EXHAUST FAN                      | M.B.<br>M.B.M.   | MACHINE BOLT<br>METAL BUILDING               | T.I.              | TENA                      |
| GR.            | ENGINEER                                 | MECH.            | MANUFACTURER<br>MECHANICAL                   | TK.BD.            | IMPR<br>TACK              |
| .J.<br>L.      | EXPANSION JOINT<br>ELEVATION             | MED.<br>MEMB.    | MEDIUM<br>MEMBRANE                           | T.O.S.<br>T.P.    | TOP (<br>TOP (            |
| LEC.<br>LEV.   | ELECTRIC(AL)<br>ELEVATOR                 | MET.<br>MFR.     | METAL  | TS<br>TEL.        | TUBE<br>TELEI             |
| MB.<br>MER.    | EMBEDMENT<br>EMERGENCY                   | MH.              | MANUFACTURER<br>MANHOLE                      | ТТВ               | TELEI<br>INAL I           |
| .N.<br>NCL.    | EDGE NAILING<br>ENCLOSURE                | MKR.<br>MIN.     | MARKER<br>MINIMUM                            | TV<br>TYP.        | TELE                      |
| Q.             | EQUAL                                    | MISC.<br>M.O.    | MISCELLANEOUS<br>MASONRY OPENING             |                   |                           |
| VAP.           | EVAPORATIVE                              | MTD.<br>MTG.     | MOUNTED                                      | U.G.<br>U.N.O.    | UNDE                      |
| .W.<br>XH.     | EACH WAY<br>EXHAUST                      | MULL.            | MULLION                                      | UR.               | OTHE<br>URIN/             |
| XST.<br>XP.    | EXISTING<br>EXPANSION                    |                  |  | VCT               | VINYL                     |
| XT.            | EXTERIOR                                 | N<br>N.I.C.      | NORTH<br>NOT IN CONTRACT                     | VERT.             | TILE<br>VERT              |
|                |  | NO.<br>NOM.      | NUMBER<br>NOMINAL                            | VTR               | VENT                      |
|                |  | N.R.C.           | NOISE REDUCTION                              |                   | COVE                      |
|                |  | 1                |  |                   |                           |
|                |  | N.T.S.           | NOT TO SCALE                                 | w                 | WEST<br>WIDT              |

| OCCUPANT LOAD<br>ON CENTER                       |  |
|--|--|
| OUTSIDE DIAMETER/<br>DIMENSION<br>OFFICE         |  |
| OWNER FURNISHED,<br>CONTR. INSTALLED             |  |
| OWNER FURNISHED,<br>OWNER INSTALLED              |  |
| OVER FLOW ROOF<br>DRAIN<br>OPPOSITE HAND         |  |
| OVER HEAD COILING<br>DOOR                        |  |
| OVAL HEAD MACH.<br>SCREW<br>OVAL HEAD WOOD       |  |
| SCREW  |  |
| OPPOSITE<br>OVER                                 |  |
| ORIGINAL<br>OVER HEAD<br>OPEN WEB JOIST          |  |
| PLYWOOD BOUNDARY                                 |  |
| NAILING<br>PLYWOOD EDGE<br>NAILING               |  |
| PLYWOOD EDGE<br>SCREWS                           |  |
| POST INDICATOR<br>VALVE                          |  |
| PLASTIC LAMINATE<br>PROPERTY LINE<br>PLATE       |  |
| PLASTER<br>PLYWOOD<br>PAIR                       |  |
| POUNDS PER<br>SQUARE FOOT                        |  |
| POUNDS PER<br>SQUARE INCH<br>POINT               |  |
| PAPER TOWEL DISP.<br>PRESSURE TREATED            |  |
| DOUGLAS FIR<br>PARTITION                         |  |
| POLYVINYL CHLORIDE                               |  |
| THERMAL  |  |
| RETURN AIR<br>ROOF DRAIN<br>REFLECTED            |  |
| REFRIGERATOR<br>REINFORCED                       |  |
| REMOVE<br>REQUIRED<br>RESILIENT                  |  |
| RIGHT HAND<br>ROUND HEAD WOOD                    |  |
| SCREW<br>ROOM<br>ROUGH OPENING                   |  |
| RIGHT-OF-WAY<br>REDWOOD                          |  |
| RAIN WATER LEADER                                |  |
| SOUTH<br>SUPPLY AIR<br>SOLID CORE                |  |
| SCHEDULE<br>STORM DRAIN                          |  |
| SECTION<br>SQUARE FEET/FOOT<br>SHOWER            |  |
| SHEATHING<br>SIMILAR                             |  |
| SHEET METAL<br>SLAB-ON-GRADE<br>SPECIFICATION(S) |  |
| SPEAKER<br>SQUARE                                |  |
| STAINLESS STEEL<br>STATION<br>SOUND TRANS-       |  |
| MISSION CLASS<br>STANDARD                        |  |
| STEEL<br>STORAGE<br>STRUCTURAL                   |  |
| SUSPENDED<br>SIDE WALK                           |  |
| SYMMETRICAL                                      |  |
| TEMPORARY  |  |
| TONGUE AND<br>GROOVE<br>THREADED                 |  |
| THICK  |  |
| IMPROVEMENT<br>TACK BOARD<br>TOP OF STEEL        |  |
| TOP OF STEEL<br>TOP OF PAVEMENT<br>TUBE STEEL    |  |
| TELEPHONE<br>TELEPHONE TERM-                     |  |
| INAL BACK BD.<br>TELEVISION<br>TYPICAL           |  |
| UNDERGROUND<br>UNLESS NOTED                      |  |
| OTHERWISE<br>URINAL                              |  |
| VINYL COMPOSITION                                |  |
| VERTICAL<br>VENT TO ROOF                         |  |
| VINYL WALL<br>COVERING                           |  |
| WEST OR<br>WIDTH/WIDE                            |  |
| WITH<br>WATER CLOSET<br>WHEEL CHAIR              |  |
| WOOD<br>WINDOW                                   |  |
| WIDE FLANGE<br>WATER HEATER<br>WITHOUT           |  |
| WATERPROOF<br>WOOD SCREW                         |  |
| WEIGHT<br>WELDED WIRE                            |  |
| FABRIC   |  |
|  |  |
|  |  |

WD.

WDW.

W.H.

W/O

W.P.

W.S.

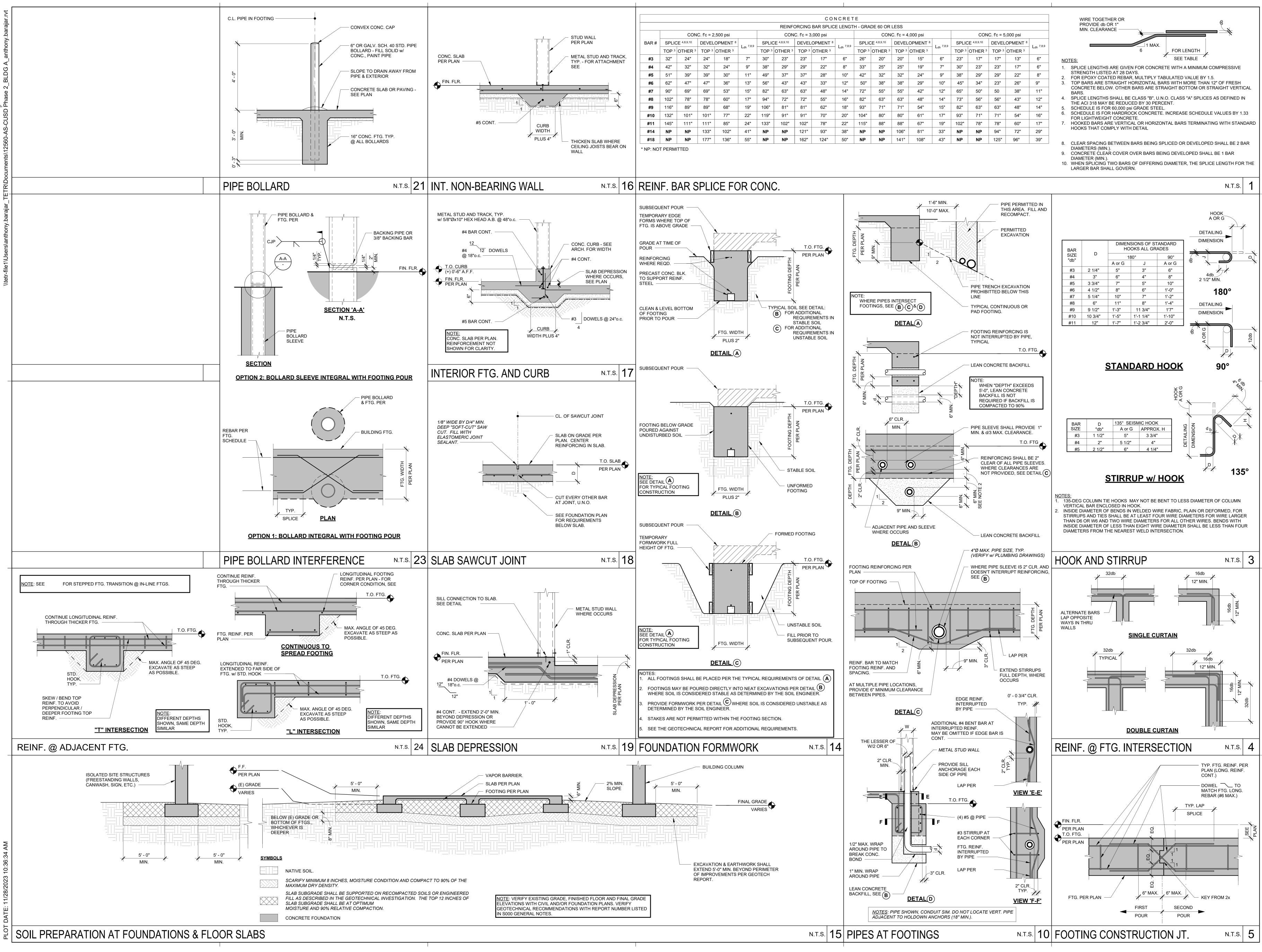
WT.

WWF

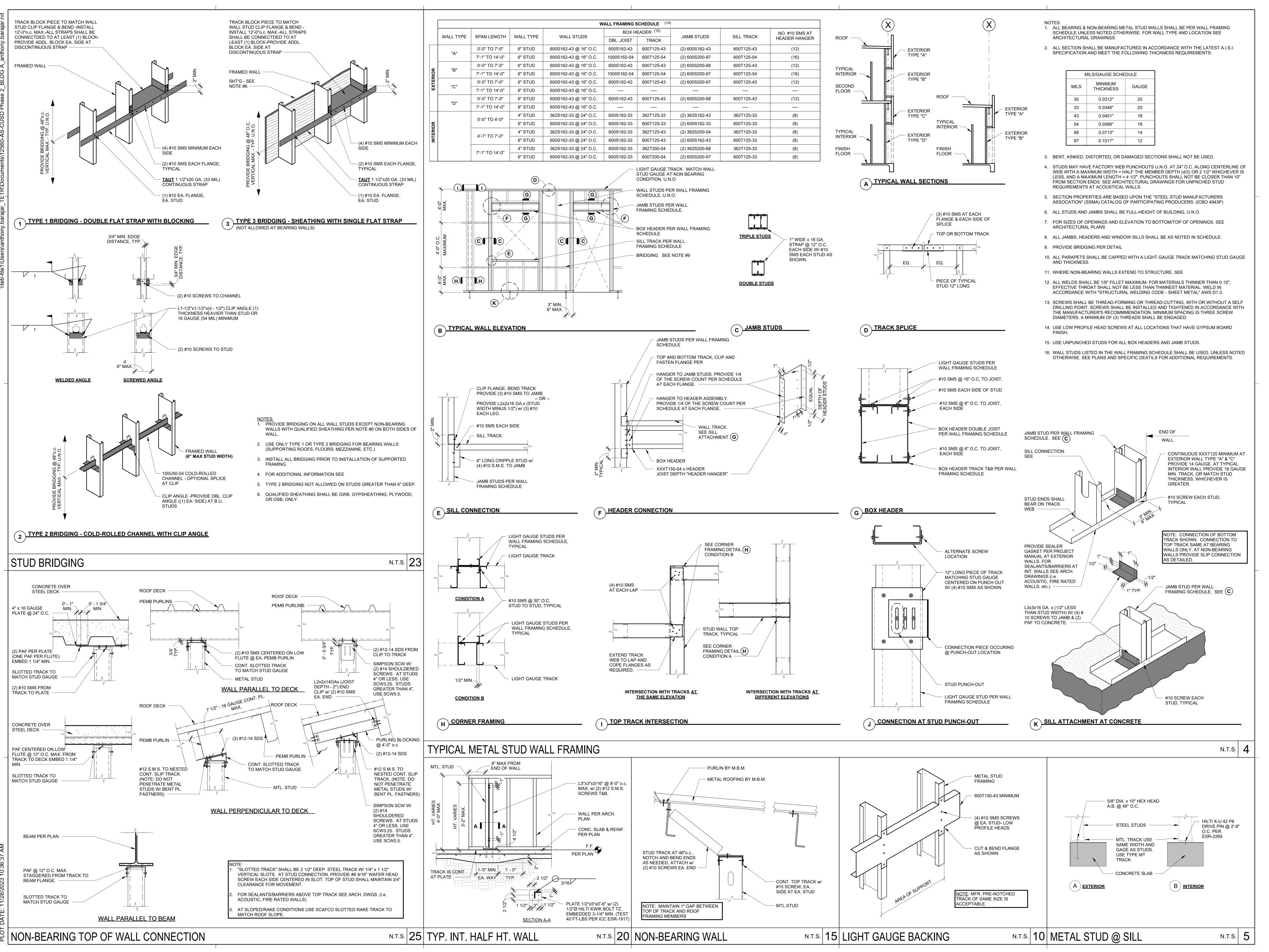
XFMR

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W.CH.





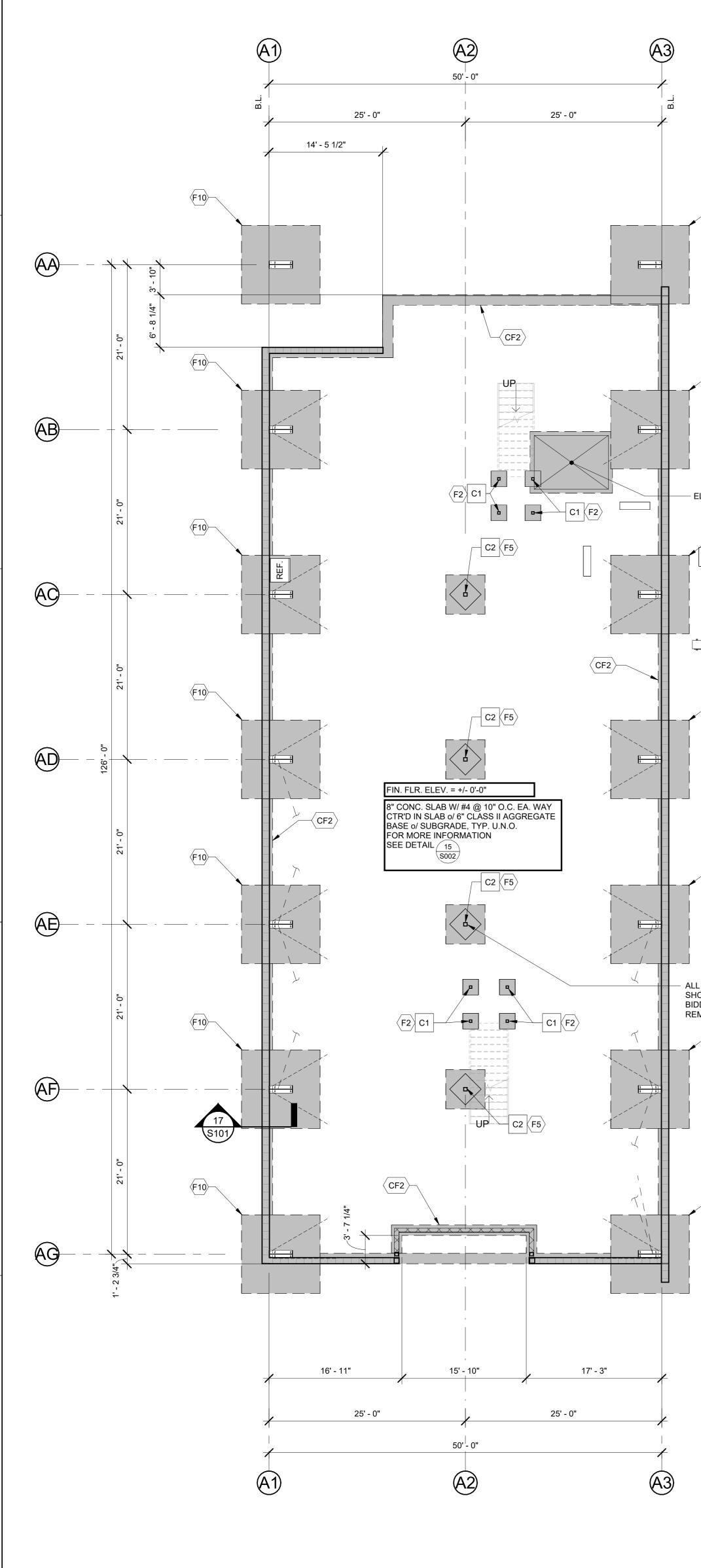


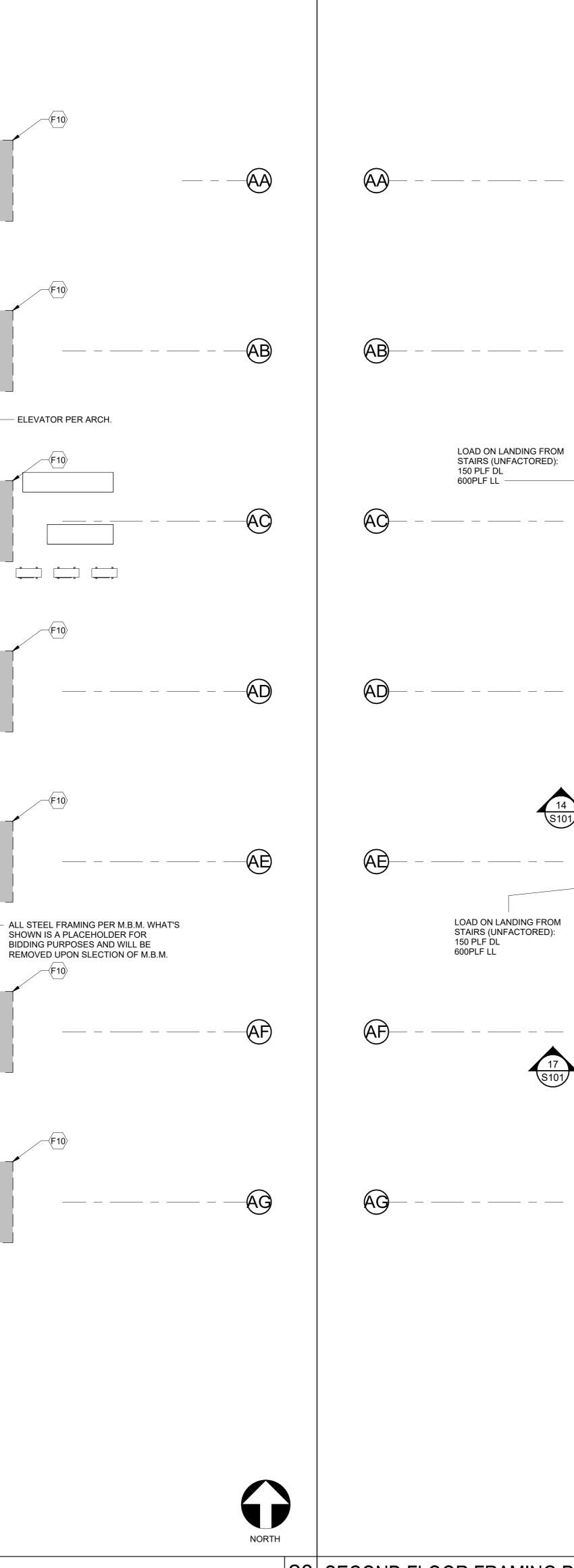
| Ν    | /IILS/GAUGE SCHE     | DULE  |
|------|----------------------|-------|
| MILS | MINIMUM<br>THICKNESS | GAUGE |
| 30   | 0.0312"              | 20    |
| 33   | 0.0346"              | 20    |
| 43   | 0.0451"              | 18    |
| 54   | 0.0566"              | 16    |
| 68   | 0.0713"              | 14    |
| 97   | 0.1017"              | 12    |

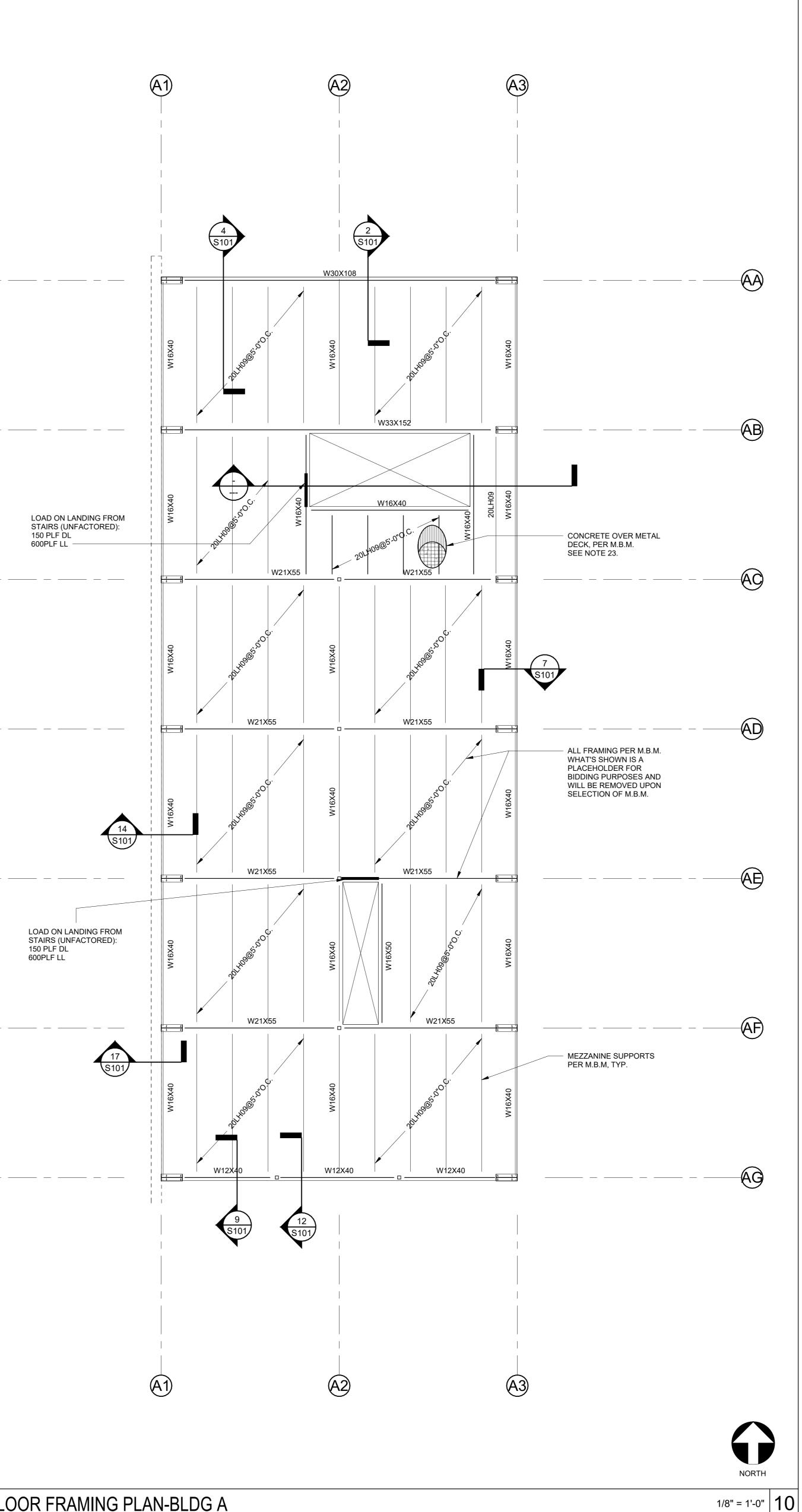


| ERESNO HEADOILARTERS           |
|--------------------------------|
|                                |
|                                |
| L                              |
| AKCHILECIO ENGINEEKO CONNECIED |
|                                |
|                                |









#### **FOUNDATION NOTES:**

- . GENERAL NOTES & TYPICAL DETAILS SHOWN ON THE S0XX SERIES SHEETS SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY SHOWN OTHERWISE. WHERE NO DETAIL IS SHOWN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK. SEE SHEET SPECIFICATIONS AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION. 2. SCHEDULES AND NOTES APPLY TO THIS SHEET ONLY. 3. UNCLEAR, CONFICTING, AND/OR MISSING INFORMATION SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO THIS CONSTRUCTION. 4. ALL ITEMS ARE NEW UNLESS NOTED OTHERWISE. 5. ALL DIMENSIONS ARE TO FACE OF WALL, OR CENTER OF COLUMN, U.N.O. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. 6. ALL DIMENSIONS ARE TAKEN TO GRIDLINES, U.N.O. 7. ALL COLUMNS ARE TO BE CENTERED ON GRIDS, PAD FOOTINGS, AND IN WALLS, UNLESS NOTED OTHERWISE.
- SEE CIVIL PLANS AND/OR SITE PLANS FOR LOCATIONS AND DIMENSIONS OF SIDEWALKS, RAMPS, AND EXTERIOR SLABS.
- 9. ALL EXTERIOR CONCRETE SLABS ARE TO BE PLACED SEPARATELY.
- 10. SLAB THICKNESS TO BE CONSTANT WHERE SLAB SLOPES TO DRAIN.
- 11. FOR SLAB-ON-GRDAE JOINT DETAILING, SEE
- 12. ALL EMBEDDED ITEMS SHALL BE IN PLACE AND SECURE PRIOR TO PLACEMENT OF CONCRETE.
- 13. ALL CONTINOUS FOOTINGS TO BE TYPE CF1, U.N.O.
- 14. TOP OF FOOTING SHALL BE (-) 1'-0", FROM FIN. FLR. U.N.O. 15. ALL ELEVATIONS ARE ESTABLISHED FROM AND RELATIVE TO FIRST FLOOR FINISHED SLAB (SEE ARCHITECTURAL FOR DATUM), U.N.O. FOR ACTUAL ELEVATIONS, SEE CIVIL
- DRAWINGS. 16. FOR PIPES/CONDUITS NEAR TO OR INTERSECTING FOUNDATIONS, SEE DETAIL  $\leftarrow$
- 17. FOR TYPCIAL SLAB BLOCKOUTS AT COLUMNS, SEE DETAIL (---), U.N.O.
- 18. FOR BUILDING PAD SOIL PREPARATION, SEE DETAIL  $\left(\frac{15}{S002}\right)$
- 19. LOCATE ALL EQUIPMENT PER OWNER'S DIRECTION.
- 20. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
- 21. FRAMING AT PENETRATIONS IN METAL BUILDING SHALL BE BY M.B.M. (MECHANICAL PENETRATIONS, ETC).
- 22. CONCRETE SLABS ARE FINISH SURFACES AS INDICATED ON ARCHITECTURAL FINISH
- FLOOR PLANS. NO TEMPORARY FASTENING, HOLES, OR DEFORMATIONS ARE ALLOWED.
- 23. SEE 'METAL BUILDING NOTES' ON S001 FOR ADDITIONAL LOADING INFORMATION AND DESIGN CRITERIA RELATED TO THE PRE-ENGINEERED METAL BUILDING.

| FOUNDATION SCHEDULE - BLDG A |                                |                     |  |  |  |  |  |  |  |
|------------------------------|--------------------------------|---------------------|--|--|--|--|--|--|--|
| SYM.                         | SIZE                           | REINFORCEM          |  |  |  |  |  |  |  |
| CONTINUOU                    | S FOOTINGS                     |                     |  |  |  |  |  |  |  |
| CF2                          | 1'-4" WIDE x 1'-6" THICK CONT. | (2) #5 CONT. T&B    |  |  |  |  |  |  |  |
| PAD FOOTIN                   | GS                             |                     |  |  |  |  |  |  |  |
| F2                           | 2'-0" SQ. x 1'-6" DP.          | (2) #5 T&B EA. WAY  |  |  |  |  |  |  |  |
| F5                           | 5'-0" SQ. x 1'-6" DP.          | (5) #5 T&B EA. WAY  |  |  |  |  |  |  |  |
| F10                          | 10'-0" SQ. x 2'-0" DP.         | (10) #5 T&B EA. WAY |  |  |  |  |  |  |  |

| COLUMN SCHEDULE - BLDG A |                    |      |  |  |  |  |  |  |
|--------------------------|--------------------|------|--|--|--|--|--|--|
| COMMEN                   | DESCRIPTION        | SYM. |  |  |  |  |  |  |
|                          | HSS4X4X1/4         | C1   |  |  |  |  |  |  |
|                          | HSS5-1/2X5-1/2X1/4 | C2   |  |  |  |  |  |  |

#### LEGEND:

| A              | GRID BUBBLE AND NUMBER. SEE ARCHITECTURAL DRA<br>PACKAGE FOR DETAILED DIMENSIONS OF ALL GRIDS SH |
|----------------|--|
| 1<br>A101      | WALL ELEVATION. SEE REFERENCING DETAIL<br>NUMBER AND SHEET NUMBER FOR ADDITIONAL INFORM          |
| 1<br>A101      | DETAIL MARK. SEE REFERENCING DETAIL NUMBER AND SHEET NUMBER FOR ADDITIONAL INFORMATION.          |
| ss             | STEPPED FOOTING. SEE DETAIL<br>FOR ADDITIONAL INFORMATION.                                       |
| T.O.F. = 0'-0" | ELEVATION MARK<br>T.O.F. = TOP OF FOOTING  |
| FX             | FOOTING TAG. SEE FOOTING SCHEDULE<br>FOR ADDITIONAL INFORMATION.                                 |
|                | CONTINUOUS FOOTING TAG. SEE FOOTING SCHEDULE FOR ADDITIONAL INFORMATION.                         |
| СХ             | COLUMN TAG. SEE COLUMN SCHEDULE<br>FOR ADDITIONAL INFORMATION.                                   |
| XX             | PANEL TAG. SEE SHEET S402 FOR ADDITIONAL INFORMA   |
|                | CONCRETE FOOTING.  |
|                | LIGHT GAUGE STUD WALL. SEE DETAIL 4  |
|                | REINFORCED CONCRETE SLAB   |
|                | THRUST ANGLE REINFORCING, SEE DETAIL   |
|                | INDICATES BRACE FRAME LOCATIONS. FOR ADDITIONAL INFORMATION SEE ELEVATIONS ON SHEETS SXXX.       |
|                |  |

MENT 

NTS

DRAWING S SHOWN.

ORMATION.

AND

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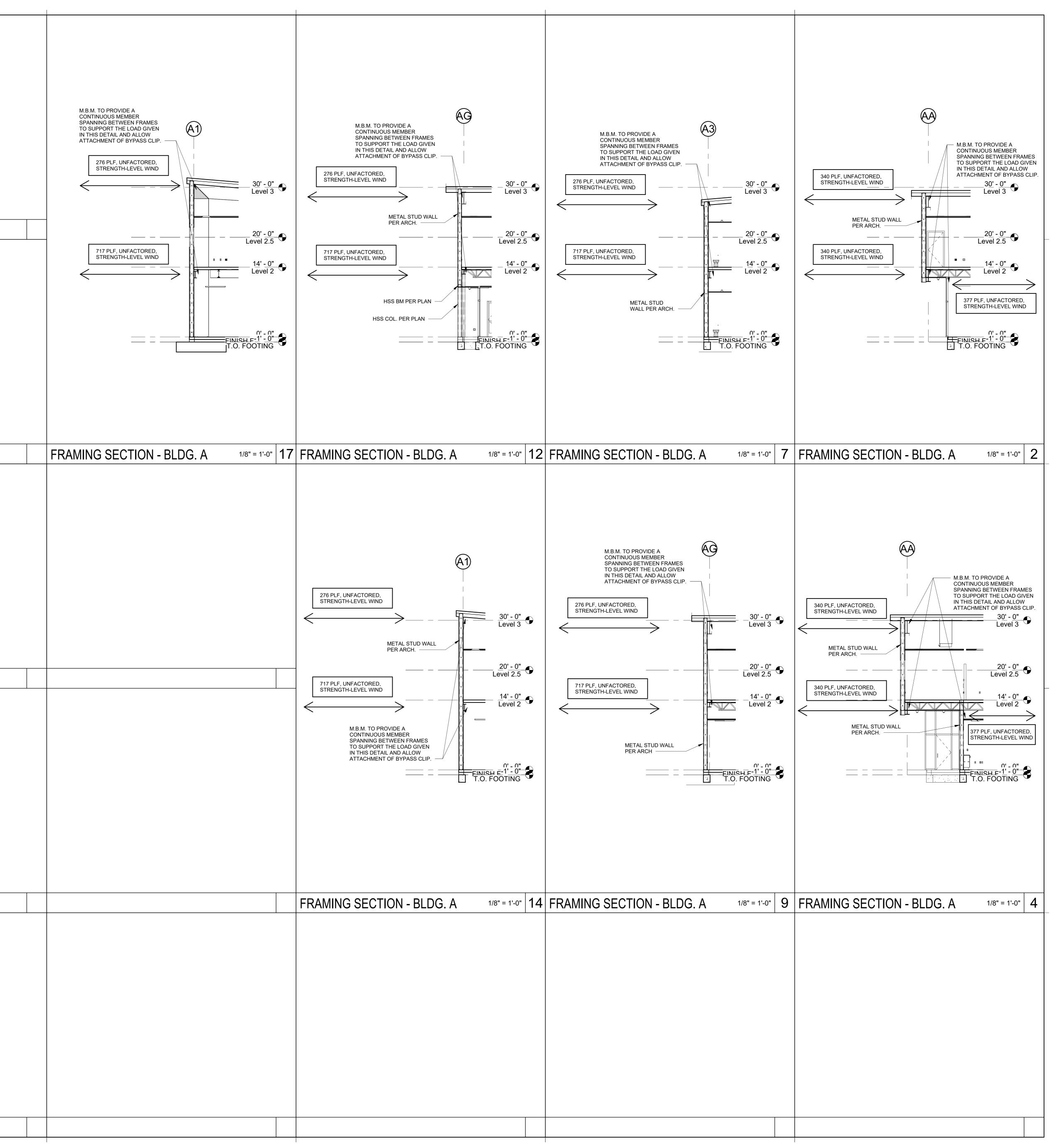
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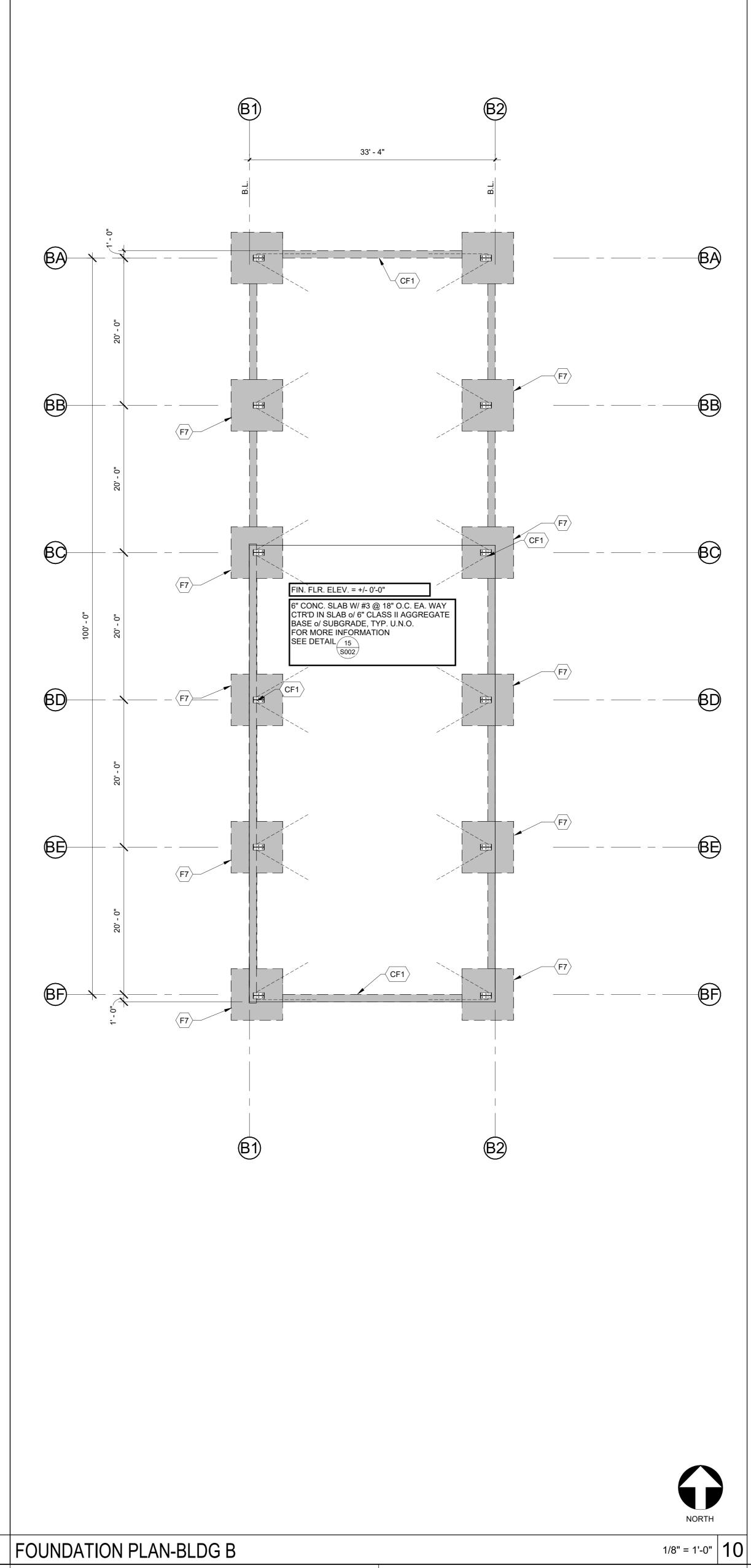




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#### FOUNDATION NOTES:

- . GENERAL NOTES & TYPICAL DETAILS SHOWN ON THE S0XX SERIES SHEETS SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY SHOWN OTHERWISE. WHERE NO DETAIL IS SHOWN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK. SEE SHEET SPECIFICATIONS AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
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- 4. ALL ITEMS ARE NEW UNLESS NOTED OTHERWISE.
- 5. ALL DIMENSIONS ARE TO FACE OF WALL, OR CENTER OF COLUMN, U.N.O. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
- 6. ALL DIMENSIONS ARE TAKEN TO GRIDLINES, U.N.O.
- 7. ALL COLUMNS ARE TO BE CENTERED ON GRIDS, PAD FOOTINGS, AND IN WALLS, UNLESS NOTED OTHERWISE.
- SEE CIVIL PLANS AND/OR SITE PLANS FOR LOCATIONS AND DIMENSIONS OF SIDEWALKS, RAMPS, AND EXTERIOR SLABS.
- 9. ALL EXTERIOR CONCRETE SLABS ARE TO BE PLACED SEPARATELY.
- 10. SLAB THICKNESS TO BE CONSTANT WHERE SLAB SLOPES TO DRAIN.
- 11. FOR SLAB-ON-GRDAE JOINT DETAILING, SEE  $\begin{pmatrix} \\ \\ \end{pmatrix}$
- 12. ALL EMBEDDED ITEMS SHALL BE IN PLACE AND SECURE PRIOR TO PLACEMENT OF CONCRETE.
- 13. ALL CONTINOUS FOOTINGS TO BE TYPE CF1, U.N.O.
- 14. TOP OF FOOTING SHALL BE (-) 1'-0", FROM FIN. FLR. U.N.O.
- 15. ALL ELEVATIONS ARE ESTABLISHED FROM AND RELATIVE TO FIRST FLOOR FINISHED SLAB (SEE ARCHITECTURAL FOR DATUM), U.N.O. FOR ACTUAL ELEVATIONS, SEE CIVIL DRAWINGS.
- 16. FOR PIPES/CONDUITS NEAR TO OR INTERSECTING FOUNDATIONS, SEE DETAIL
- 17. FOR TYPCIAL SLAB BLOCKOUTS AT COLUMNS, SEE DETAIL  $\left( \begin{array}{c} \\ \end{array} \right)$ , U.N.O.
- 18. FOR BUILDING PAD SOIL PREPARATION, SEE DETAIL  $\frac{15}{(5002)}$
- 19. LOCATE ALL EQUIPMENT PER OWNER'S DIRECTION.
- 20. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
- 21. FRAMING AT PENETRATIONS IN METAL BUILDING SHALL BE BY M.B.M. (MECHANICAL PENETRATIONS, ETC).
- 22. CONCRETE SLABS ARE FINISH SURFACES AS INDICATED ON ARCHITECTURAL FINISH
- FLOOR PLANS. NO TEMPORARY FASTENING, HOLES, OR DEFORMATIONS ARE ALLOWED.
- 23. SEE 'METAL BUILDING NOTES' ON S001 FOR ADDITIONAL LOADING INFORMATION AND DESIGN CRITERIA RELATED TO THE PRE-ENGINEERED METAL BUILDING.

| FOUNDATION SCHEDULE - BLDG B |                                |                    |  |  |  |  |  |  |  |
|------------------------------|--------------------------------|--------------------|--|--|--|--|--|--|--|
| SYM.                         | SIZE                           | REINFORCEMENT      |  |  |  |  |  |  |  |
| CONTINUOU                    | S FOOTINGS                     |                    |  |  |  |  |  |  |  |
| CF1                          | 1'-0" WIDE x 1'-6" THICK CONT. | (1) #5 CONT. T&B   |  |  |  |  |  |  |  |
| PAD FOOTIN                   | GS                             |                    |  |  |  |  |  |  |  |
| F7                           | 7'-0" SQ. x 1'-6" DP.          | (7) #5 T&B EA. WAY |  |  |  |  |  |  |  |

#### LEGEND:

| A              | GRID BUBBLE AND NUMBER. SEE ARCHITECTURAL DRAY<br>PACKAGE FOR DETAILED DIMENSIONS OF ALL GRIDS SH |
|----------------|---|
| 1<br>A101      | WALL ELEVATION. SEE REFERENCING DETAIL<br>NUMBER AND SHEET NUMBER FOR ADDITIONAL INFORM           |
| 1<br>A101      | DETAIL MARK. SEE REFERENCING DETAIL NUMBER AND SHEET NUMBER FOR ADDITIONAL INFORMATION.           |
| ss             | STEPPED FOOTING. SEE DETAIL<br>FOR ADDITIONAL INFORMATION.  |
| T.O.F. = 0'-0" | ELEVATION MARK<br>T.O.F. = TOP OF FOOTING   |
| FX             | FOOTING TAG. SEE FOOTING SCHEDULE<br>FOR ADDITIONAL INFORMATION.                                  |
|                | CONTINUOUS FOOTING TAG. SEE FOOTING SCHEDULE FOR ADDITIONAL INFORMATION.                          |
| СХ             | COLUMN TAG. SEE COLUMN SCHEDULE<br>FOR ADDITIONAL INFORMATION.                                    |
| XX             | PANEL TAG. SEE SHEET S402 FOR ADDITIONAL INFORMA  |
|                | CONCRETE FOOTING.   |
|                | LIGHT GAUGE STUD WALL. SEE DETAIL 4   |
|                | REINFORCED CONCRETE SLAB  |
|                | THRUST ANGLE REINFORCING, SEE DETAIL  |
|                | INDICATES BRACE FRAME LOCATIONS. FOR ADDITIONAL INFORMATION SEE ELEVATIONS ON SHEETS SXXX.        |
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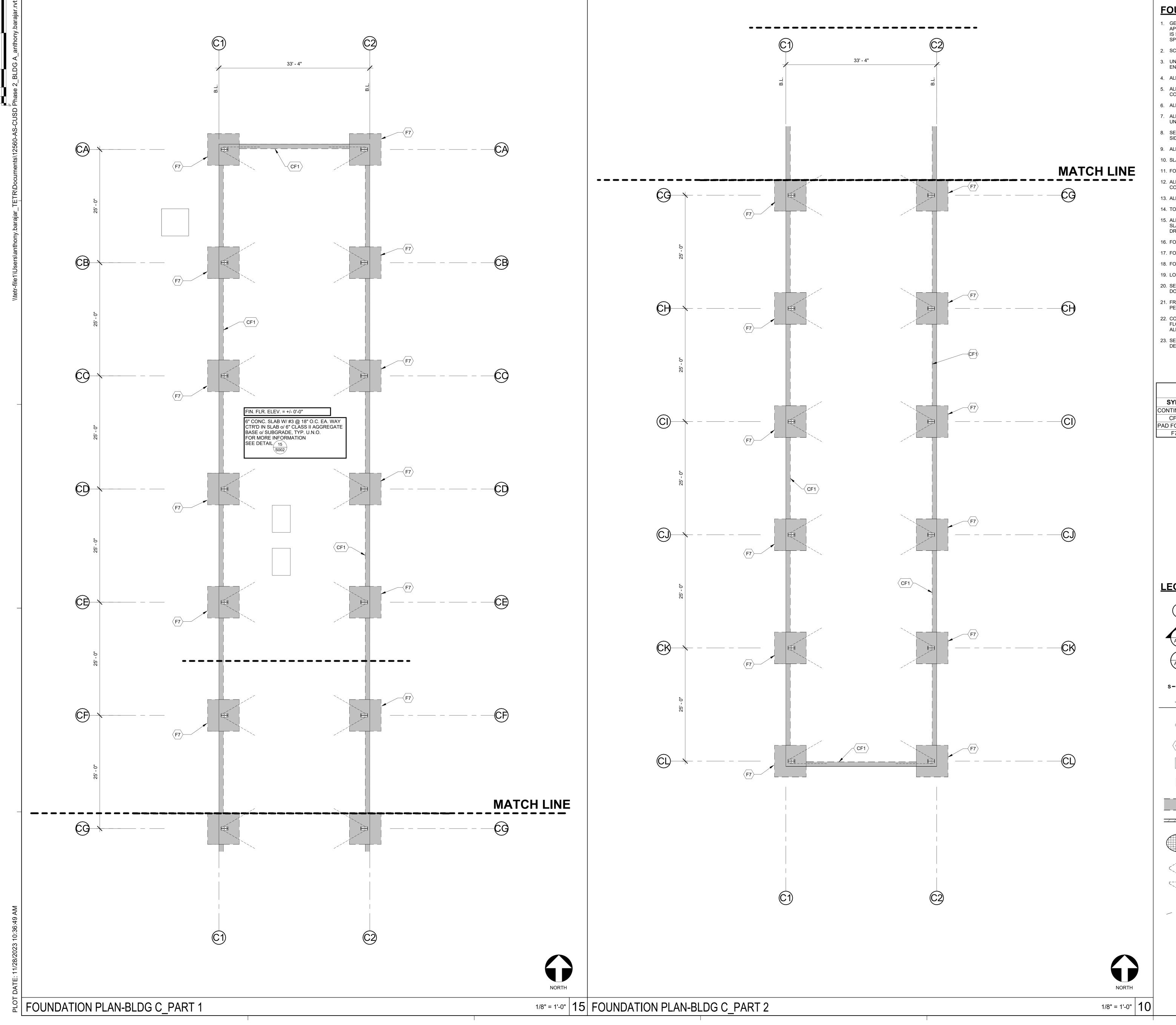
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|                       |                         |                     |                          |                           |                   |                            |                            | DESCRIPTION                |                          | 100%                      |                              |
|                       | +                       |                     |                          |                           |                   |                            |                            |                            |                          | 2/04/23   100% BID SET    |                              |
|                       |                         |                     |                          |                           |                   |                            |                            | DATE                       |                          | 12/04/                    |                              |
|                       | +                       |                     |                          |                           |                   |                            |                            | MARK                       |                          |                           |                              |
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| FOUNDATION SCHEDULE - BLDG C |                               |                    |  |  |  |  |  |  |
|------------------------------|-------------------------------|--------------------|--|--|--|--|--|--|
| SYM.                         | SIZE                          | REINFORCEM         |  |  |  |  |  |  |
| CONTINUOUS                   | SFOOTINGS                     |                    |  |  |  |  |  |  |
| CF1                          | 1'-0" WIDEx 1'-6" THICK CONT. | (1) #5 CONT. T&B   |  |  |  |  |  |  |
| PAD FOOTIN                   | GS                            |                    |  |  |  |  |  |  |
| F7                           | 7'-0" SQ.x 1'-6" DP.          | (7) #5 T&B EA. WAY |  |  |  |  |  |  |

#### LEGEND:

| (A)            | GRID BUBBLE AND NUMBER. SEE ARCHITECTURAL DF<br>PACKAGE FOR DETAILED DIMENSIONS OF ALL GRIDS |
|----------------|--|
| 1<br>A101      | WALL ELEVATION. SEE REFERENCING DETAIL<br>NUMBER AND SHEET NUMBER FOR ADDITIONAL INFOR       |
| 1<br>(A101)    | DETAIL MARK. SEE REFERENCING DETAIL NUMBER AI<br>SHEET NUMBER FOR ADDITIONAL INFORMATION.    |
| s s            | STEPPED FOOTING. SEE DETAIL<br>FOR ADDITIONAL INFORMATION.                                   |
| T.O.F. = 0'-0" | ELEVATION MARK<br>T.O.F. = TOP OF FOOTING  |
| FX             | FOOTING TAG. SEE FOOTING SCHEDULE<br>FOR ADDITIONAL INFORMATION.                             |
|                | CONTINUOUS FOOTING TAG. SEE FOOTING SCHEDUL<br>FOR ADDITIONAL INFORMATION.                   |
| сх             | COLUMN TAG. SEE COLUMN SCHEDULE<br>FOR ADDITIONAL INFORMATION.                               |
| XX             | PANEL TAG. SEE SHEET S402 FOR ADDITIONAL INFOR   |
|                | CONCRETE FOOTING.  |
| <u></u>        | LIGHT GAUGE STUD WALL. SEE DETAIL 4  |
|                | REINFORCED CONCRETE SLAB   |
|                | THRUST ANGLE REINFORCING, SEE DETAIL   |
|                | INDICATES BRACE FRAME LOCATIONS. FOR ADDITION<br>INFORMATION SEE ELEVATIONS ON SHEETS SXXX.  |
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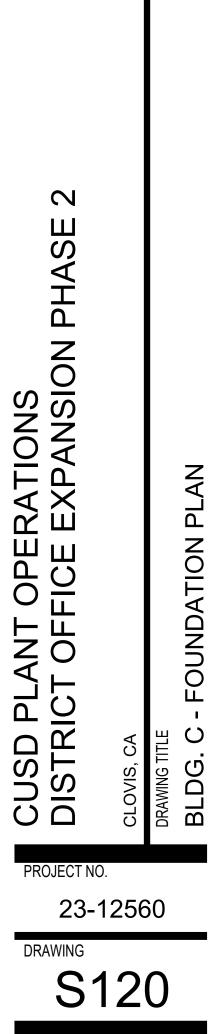
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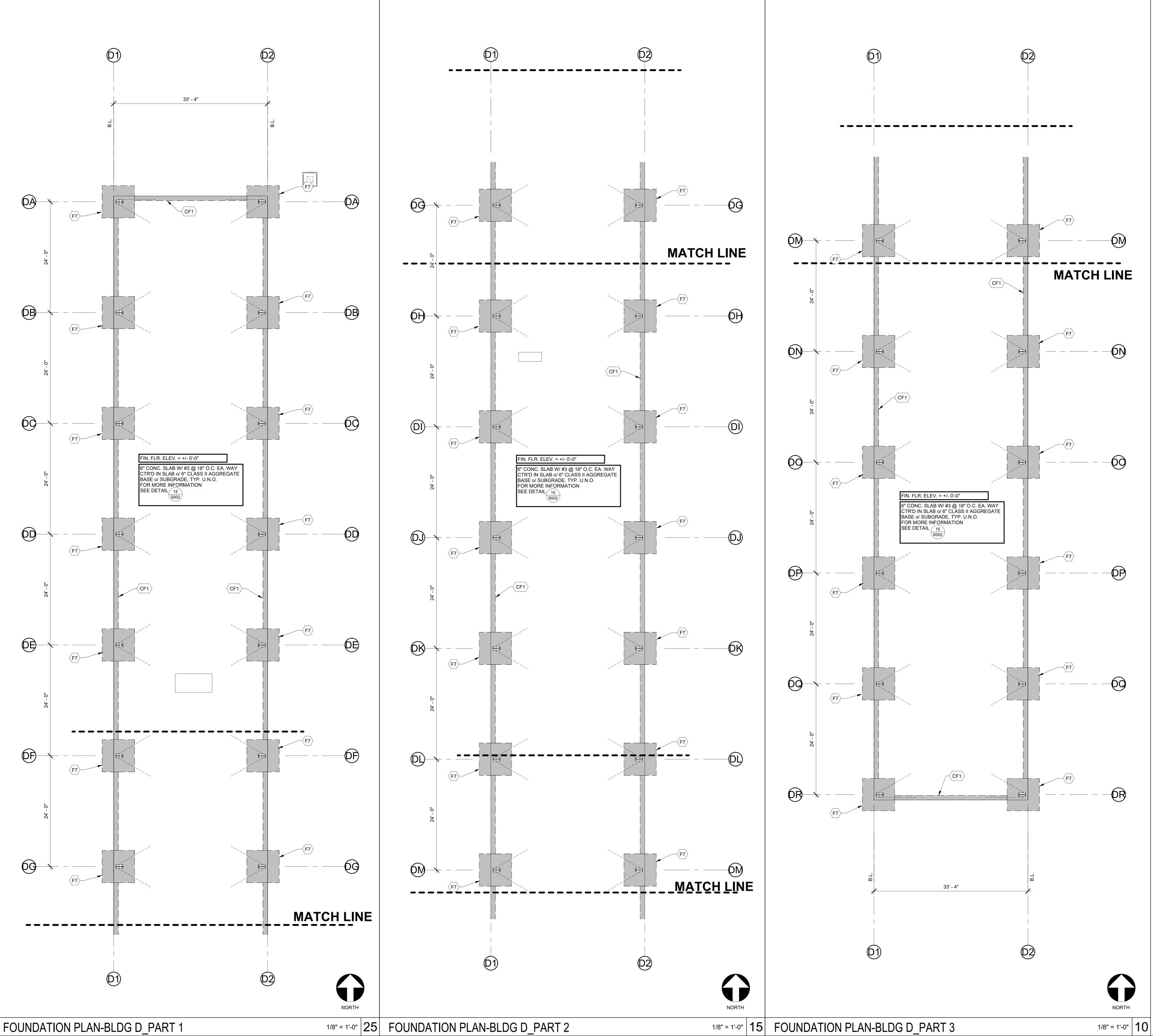
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| MARK     DATE     DESCRIPTION       12/04/23     100% BID SET  |                       |                         |                     |                          |                           |                   |                            |                            |                            | Г                        |                           | 7                            |
| MARK DATE  |                       |                         |                     |                          |                           |                   |                            |                            | DESCRIPTION                |                          | 100% BID SET              |                              |
| MARK   |                       |                         |                     |                          |                           |                   |                            |                            | DATE                       |                          | 12/04/23                  |                              |
|  |                       |                         |                     |                          |                           |                   |                            |                            | MARK                       |                          |                           |                              |
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| FOUNDATION SCHEDULE - BLDG D |                              |                    |  |  |  |  |  |  |  |  |
|------------------------------|------------------------------|--------------------|--|--|--|--|--|--|--|--|
| SYM.                         | SIZE                         | REINFORCEM         |  |  |  |  |  |  |  |  |
| CONTINUOU                    | S FOOTINGS                   |                    |  |  |  |  |  |  |  |  |
| CF1                          | 1'-0" WIDEx1'-6" THICK CONT. | (1) #5 CONT. T&B   |  |  |  |  |  |  |  |  |
| PAD FOOTIN                   | GS                           |                    |  |  |  |  |  |  |  |  |
| F7                           | 7'-0" SQ.x1'-6" DP.          | (7) #5 T&B EA. WAY |  |  |  |  |  |  |  |  |

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|----------------|--|
| 1<br>A101      | WALL ELEVATION. SEE REFERENCING DETAIL<br>NUMBER AND SHEET NUMBER FOR ADDITIONAL INFOR         |
| 1<br>A101      | DETAIL MARK. SEE REFERENCING DETAIL NUMBER AN<br>SHEET NUMBER FOR ADDITIONAL INFORMATION.      |
| ss             | STEPPED FOOTING. SEE DETAIL<br>FOR ADDITIONAL INFORMATION.                                     |
| T.O.F. = 0'-0" | ELEVATION MARK<br>T.O.F. = TOP OF FOOTING  |
| FX             | FOOTING TAG. SEE FOOTING SCHEDULE<br>FOR ADDITIONAL INFORMATION.                               |
|                | CONTINUOUS FOOTING TAG. SEE FOOTING SCHEDULI<br>FOR ADDITIONAL INFORMATION.                    |
| СХ             | COLUMN TAG. SEE COLUMN SCHEDULE<br>FOR ADDITIONAL INFORMATION.                                 |
| XX             | PANEL TAG. SEE SHEET S402 FOR ADDITIONAL INFORM  |
|                | CONCRETE FOOTING.  |
|                | LIGHT GAUGE STUD WALL. SEE DETAIL 4<br>\$003   |
|                | REINFORCED CONCRETE SLAB   |
|                | THRUST ANGLE REINFORCING, SEE DETAIL   |
| ~              | INDICATES BRACE FRAME LOCATIONS. FOR ADDITION<br>INFORMATION SEE ELEVATIONS ON SHEETS SXXX.    |
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3. UNCLEAR, CONFICTING, AND/OR MISSING INFORMATION SHALL BE BROUGHT TO THE

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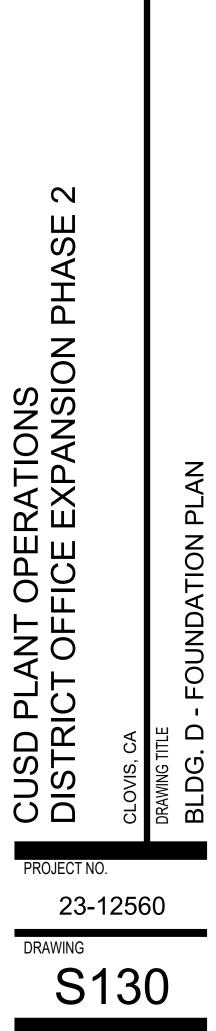
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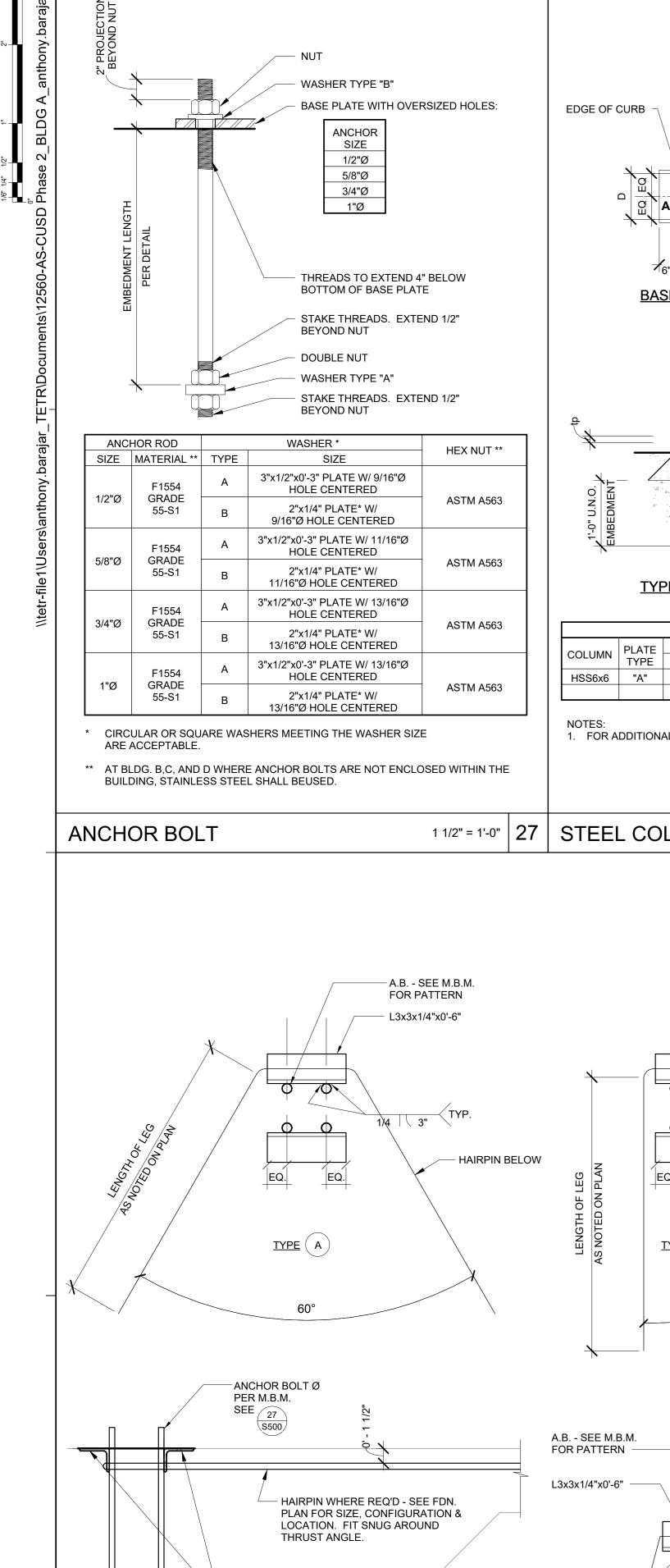
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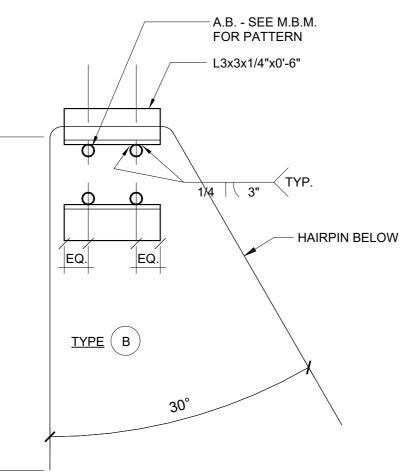
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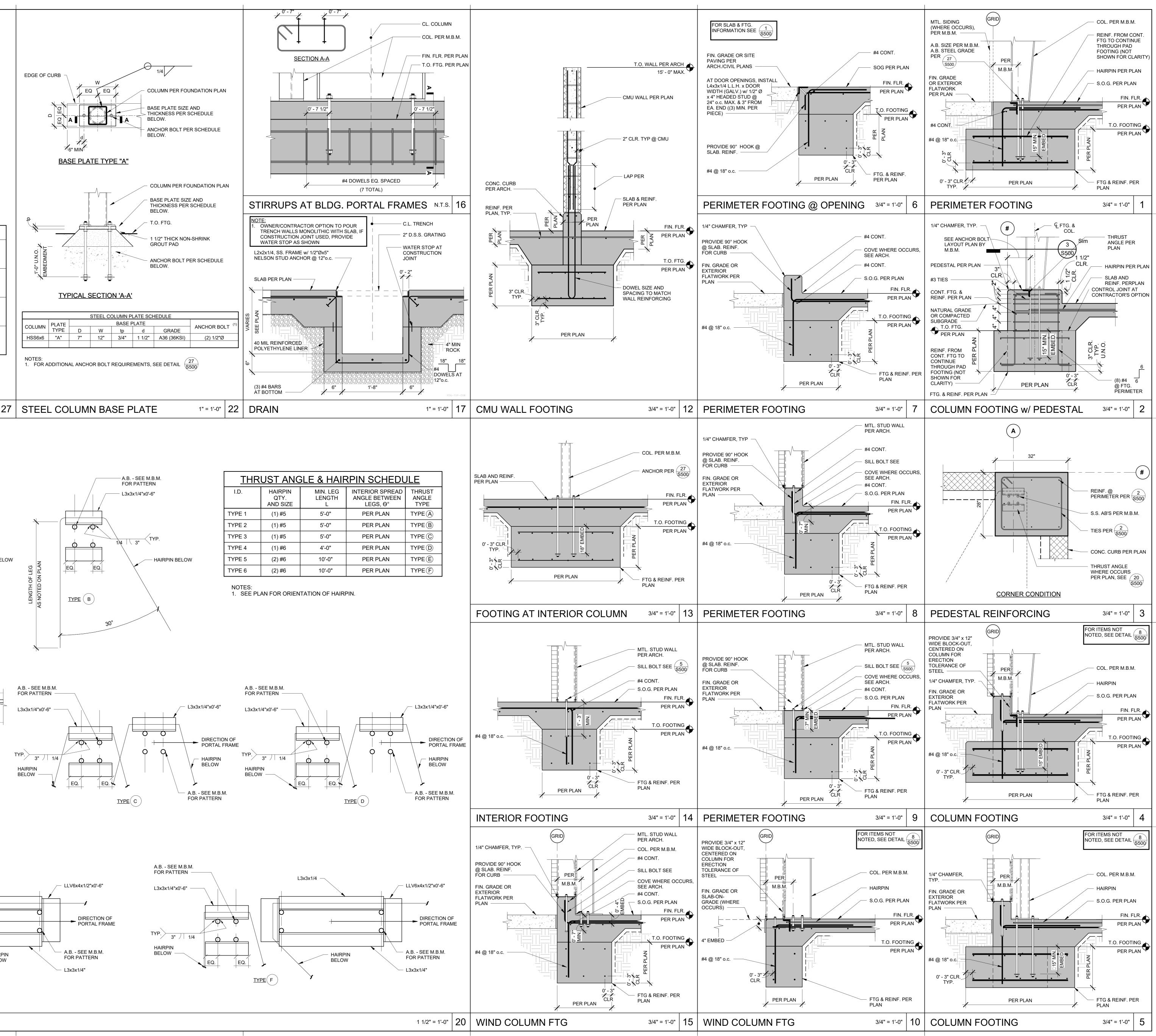


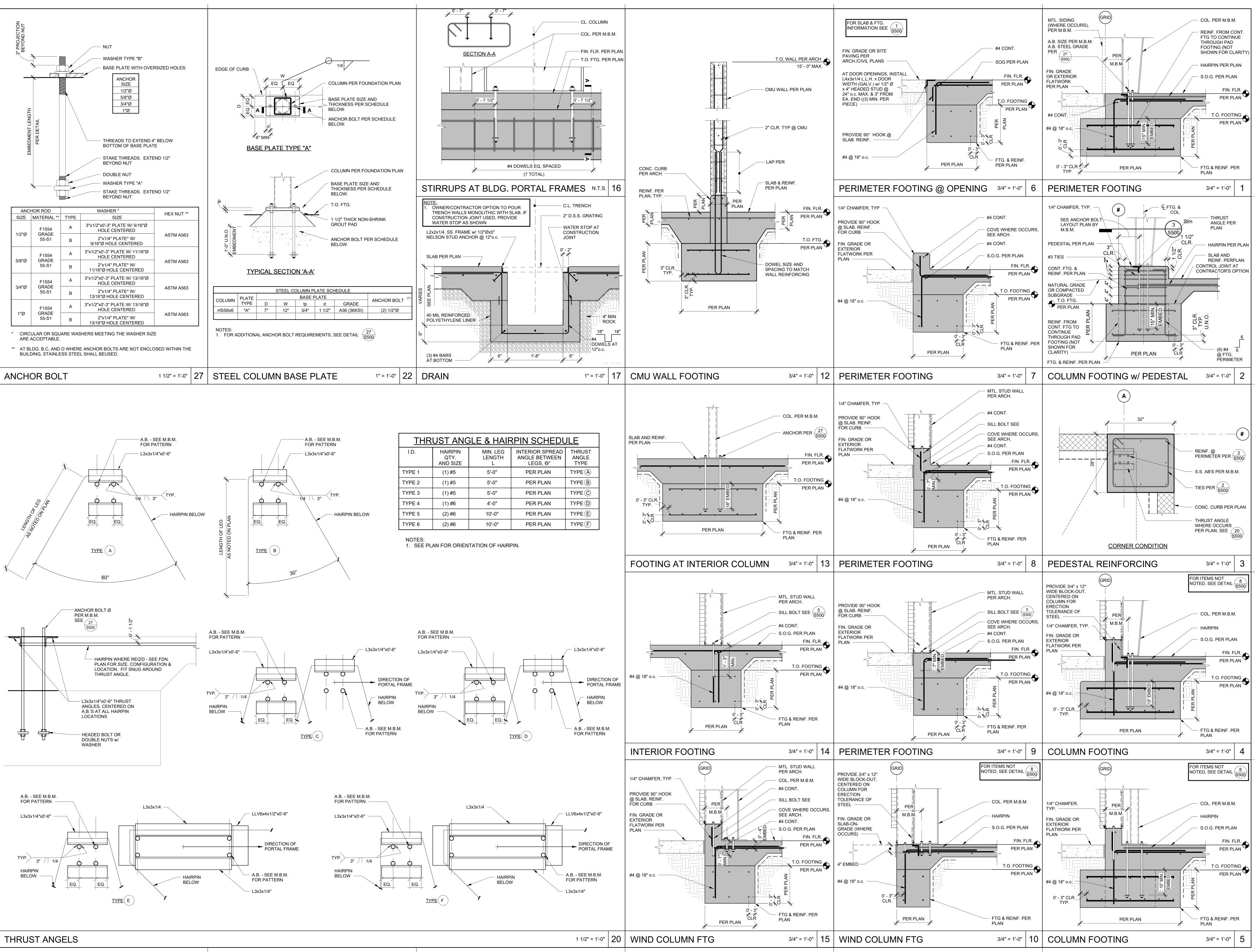














# MECHANICAL SCHEDULES

#### OUTDOOR UNIT SCHEDULE

| DESIGNATION        | ODU-1         | ODU-2         | ODU-3, ODU-4, ODU-5 | ODU-6          | ODU-7          |
|--------------------|---------------|---------------|---------------------|----------------|----------------|
| NAMEPLATE AMPS     | 0             | 0             | 0                   | 0              | 0              |
| VOLTS / PHASE      | 460 / 3       | 460 / 3       | 208-230 / 1         | 208-230 / 1    | 208-230 / 1    |
| MCA / MOCP         | 0 / 0         | 0 / 0         | 0 / 0               | 0 / 0          | 0 / 0          |
| EER / SEER         | 0 / 0         | 0 / 0         | 0 / 0               | 0 / 0          | 0 / 0          |
| COOLING CAP. (MBH) | 288           | 240           | 24                  | 0              | 0              |
| AMBIENT (°F)       | 0             | 0             | 0                   | 0              | 0              |
| MANUFACTURER       | TRANE         | TRANE         | TRANE               | TRANE          | TRANE          |
| ТҮРЕ               | HEAT PUMP     | HEAT PUMP     | COOLING ONLY        | HEAT PUMP      | HEAT PUMP      |
| MODEL NUMBER       | A             | A             | A                   | А              | A              |
| LOCATION           | A - MECH YARD | A - MECH YARD | A - MECH YARD       | VARIES - SHOPS | VARIES - SHOPS |
| OPER. WT. (LBS)    | 1950          | 1410          | 325                 | 325            | 325            |
| ACCESSORIES        | 1             | 1             | 1                   | 1              | 1              |

| INDOOR UNIT SCHEDULE |                   |                  |                  |                     |                |                |
|----------------------|-------------------|------------------|------------------|---------------------|----------------|----------------|
| DE                   | SIGNATION         | IDU 1-1 THRU 1-5 | IDU 2-1 THRU 2-5 | IDU-3, IDU-4, IDU-5 | IDU-6          | IDU-7          |
| ER                   | SUPPLY AIR (CFM)  | 0                | 0                | 0                   | 0              | 0              |
| BLOWER               | EXT. SP (IN. WC)  | 0                | 0                | 0                   | 0              | 0              |
|                      | MIN. O.S.A. (CFM) | 0                | 0                | 0                   | 0              | 0              |
|                      | VOLTS / PHASE     | 208-230 / 1      | 208-230 / 1      | 208-230 / 1         | 208-230 / 1    | 208-230 / 1    |
|                      | МСА / МОСР        | 0/0              | 0/0              | 0 / 0               | 0 / 0          | 0 / 0          |
|                      | F.L.A.            | 0                | 0                | 0                   | 0              | 0              |
|                      | RPM               | 0                | 0                | 0                   | 0              | 0              |
|                      | DRIVE             | A                | A                | A                   | A              | A              |
| <b>NG</b>            | SENSIBLE (MBH)    | 0                | 0                | 0                   | 0              | 0              |
| COOLING              | TOTAL (MBH)       | 0                | 0                | 0                   | 0              | 0              |
| U<br>U               | EADB / EAWB (°F)  | 0 / 0            | 0 / 0            | 0 / 0               | 0 / 0          | 0 / 0          |
|                      |                   |                  |                  |                     |                |                |
| NG                   | CAP. (MBH) @ 25°F | 0                | 0                | 0                   | 0              | 0              |
| HEATING              | ĸw                | 0                | 0                | 0                   | 0              | 0              |
|                      | STAGES            | 0                | 0                | 0                   | 0              | 0              |
|                      |                   |                  |                  |                     |                |                |
| ERS                  | QUANTITY / SIZE   | 0 / 0            | 0 / 0            | 0 / 0               | 0 / 0          | 0 / 0          |
| FILTERS              | ТҮРЕ              | А                | А                | A                   | A              | A              |
|                      | PD (IN. WC)       | 0                | 0                | 0                   | 0              | 0              |
|                      |                   |                  |                  |                     |                |                |
| MA                   | NUFACTURER        | TRANE            | TRANE            | TRANE               | TRANE          | TRANE          |
| ТҮРЕ                 |                   | DUCTED           | DUCTED           | HIGH WALL           | DUCTED         | HIGH WALL      |
| мо                   | DEL NUMBER        | А                | А                | A                   | A              | A              |
| LO                   | CATION            | ADMIN            | ADMIN            | ADMIN               | VARIES - SHOPS | VARIES - SHOPS |
| ОР                   | ER. WT (LBS)      | 250              | 250              | 120                 | 200            | 120            |
| AC                   | CESSORIES         | 1,2              | 1,2              | 1,2                 | 1,2            | 1,2            |
| 1 \                  |                   |                  |                  |                     |                |                |

1. WIRED WALL MOUNTED THERMOSTAT. 2. REFRIGERANT LINE SET COVERS FOR EXPOSED PIPING IN ROOM. (AC COVER GUARD)

| EVAPORATIVE COOLER SCHEDULE |                    |          |                |  |
|-----------------------------|--------------------|----------|----------------|--|
| DE                          | SIGNATION          | EC-1     | EC-2           |  |
| /ER                         | SUPPLY AIR (CFM)   | 0        | 0              |  |
| BLOWER                      | EXT. SP (IN. WC)   | 0        | 0              |  |
|                             | HP                 | 3        | 3              |  |
|                             | VOLTS / PHASE      | 460 / 3  | 240 / 1        |  |
|                             | RPM                | 0        | 0              |  |
|                             | QUANTITY           | 0        | 0              |  |
| PUMP                        | PUMP POWER (W)     | 75       | 32             |  |
| ΡU                          | PUMP VOLTS / PHASE | 115 / 1  | 240 / 1        |  |
|                             | QUANTITY           | 1        | 1              |  |
| EDIA                        | ТҮРЕ               | RIGID    | A              |  |
| EVAPORATIVE MEDIA           | THICKNESS (IN.)    | 0        | 0              |  |
| ATIV                        | QUANTITY           | 0        | 0              |  |
| POR                         | MODEL              | A        | A              |  |
| EVA                         |                    |          |                |  |
|                             |                    |          |                |  |
| МА                          | NUFACTURER         | CHAMPION | CLIMATE WIZARD |  |
| TY                          | PE                 | DIRECT   | INDIRECT       |  |
| мо                          | DEL NUMBER         | A        | A              |  |
| со                          | NTROL              | SWITCH   | SWITCH         |  |
| LO                          | CATION             | ROOF     | ROOF           |  |
| ОР                          | ER. WT (LBS)       | 1100     | 900            |  |
| AC                          | CESSORIES          | 1        | 1              |  |

| VEHICLE EXHAUST SCHEDULE |                 |  |
|--------------------------|-----------------|--|
| DESIGNATION              | VE-1            |  |
| CFM                      | 0               |  |
| EXT. SP (IN. WC)         | 0               |  |
| HP / WATTS               | 0 / 0           |  |
| VOLTS / PHASE            | 480 / 3         |  |
| RPM                      | 0               |  |
| TIP SPEED / SONES        | 0 / 0           |  |
| DRIVE                    | A               |  |
| MOUNTING                 | OVERHEAD REEL   |  |
| MANUFACTURER             | CAR-MON         |  |
| ТҮРЕ                     | SPRING OPERATED |  |
| MODEL NUMBER             | A               |  |
| CONTROL                  | A               |  |
| LOCATION                 | BLDG. C         |  |
| OPER. WT. (LBS)          | 300             |  |
| ACCESSORIES              | 1               |  |

1. BACKDRAFT DAMPER.

| EXHAUST FAN SCHEDULE |             |                |             |  |  |
|----------------------|-------------|----------------|-------------|--|--|
| DESIGNATION          | EF-1        | EF-2           | EF-3        |  |  |
| CFM                  | 0           | 0              | 0           |  |  |
| EXT. SP (IN. WC)     | 0           | 0              | 0           |  |  |
| HP / WATTS           | 0 / 0       | 0 / 0          | 0 / 0       |  |  |
| VOLTS / PHASE        | 115 / 1     | 115 / 1        | 115 / 1     |  |  |
| RPM                  | 0           | 0              | 0           |  |  |
| TIP SPEED / SONES    | 0 / 0       | 0 / 0          | 0 / 0       |  |  |
| DRIVE                | DIRECT      | DIRECT         | DIRECT      |  |  |
| MOUNTING             | CEILING     | ROOF           | IN-LINE     |  |  |
| MANUFACTURER         | GREENHECK   | GREENHECK      | GREENHECK   |  |  |
| ТҮРЕ                 | CENTRIFUGAL | UPBLAST        | CENTRIFUGAL |  |  |
| MODEL NUMBER         | SP-AXX      | CUE-XX         | SQ-XX       |  |  |
| CONTROL              | A           | А              | A           |  |  |
| BUILDING             | ADMIN       | VARIES - SHOPS | ADMIN       |  |  |
| OPER. WT. (LBS)      | 50          | 175            | 150         |  |  |
| ACCESSORIES          | 1           | 2              | 1           |  |  |

1. PROVIDE BACKDRAFT DAMPER, ROUND DUCT CONNECTOR, AND SPEED CONTROLLER. 2. PROVIDE BACKDRAFT DAMPER AND BIRD SCREEN.

#### **BRANCH CONTROLLER SCHEDULE**

| DESIGNATION     | BC-1        |
|-----------------|-------------|
| NO. OF BRANCHES | 0           |
| HP / WATTS      | 0 / 0       |
| /OLTS / PHASE   | 208-230 / 1 |
| MOUNTING        | SUSPENDED   |
| MANUFACTURER    | TRANE       |
| MODEL NUMBER    | A           |
| LOCATION        | ADMIN       |
| OPER. WT. (LBS) | 120         |
|                 | 12          |

ACCESSORIES 1,2 1. PROVIDE INSULATED BALL VALVES ON ALL

PORTS, INCLUDING UNUSED PORTS. 2. PROVIDE RS/RL FITTINGS AND REDUCERS AS REQUIRED PER MANUFACTURER'S SIZING.

**INFRARED RADIANT HEATER SCHEDULE** 

| DES    | SIGNATION          | IR-1           |
|--------|--------------------|----------------|
| שא     | INPUT (MBH)        | 0              |
| BLUWER | TUBE LENGTH (FT)   | 0              |
|        | VOLTS / PHASE      | 460 / 3        |
|        | AMPS (START / RUN) | 0 / 0          |
|        | MOUNTING HEIGHT    | 0              |
|        |                    |                |
| MA     | NUFACTURER         | BBC            |
| ΓYF    | ΡE                 | ELECTRIC       |
| NO     | DEL NUMBER         | 43-XXX-480V    |
| _00    | CATION             | VARIES - SHOPS |
| OPI    | ER. WT (LBS)       | 50             |
| 40     | CESSORIES          | 1              |
| 10     |                    |                |

1. WALL MOUNTED.

| DUST COLLECTOR SC     | CHEDULE   |
|-----------------------|-----------|
| DESIGNATION           | DC-1      |
| AIRFLOW (CFM)         | 0         |
| HP (BLOWER)           | 0         |
| HP (SHAKER)           | 0         |
| EXT. SP (IN. WC)      | 0         |
| VOLTS / PHASE         | 460 / 3   |
| FILTER TYPE / SIZE    | 0 / 0     |
| FILTER AREA (SQ. FT.) | 0         |
| MANUFACTURER          | STERNVENT |
| ТҮРЕ                  | SAWDUST   |
| MODEL NUMBER          | 0         |
| CONTROL               | A         |
| LOCATION              | A         |
| OPER. WT. (LBS)       | 4,000     |
|                       |           |

ACCESSORIES

1. EXPLOSION RELIEF DOOR. 2. REMOTE VFD MOTOR CONTROLLER.

3. IBC SEISMIC & WIND CONSTRUCTION. 4. ABORT GATE (HANSENTEK 28x28 WITH 180° COWL) INTERLOCKED WITH SPARK DETECTION SYSTEM (HANSENTEK AN104).

1,2,3,4

#### GENERAL NOTES

- 1. COORDINATION OF WORK: LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY.
- 2. THE ACTUAL LOCATION OF ALL MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORTS, ETC. SHALL BE CAREFULLY PLANNED, PRIOR TO INSTALLATION OF ANY WORK TO AVOID ALL INTERFERENCES WITH EACH OTHER, OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL OR OTHER ELEMENTS.
- VERIFY THE PROPER VOLTAGE AND PHASE OF ALL EQUIPMENT WITH THE ELECTRICAL PLANS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER PRIOR TO THE INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.
- PROVIDE ALL DUCT TRANSITION PIECES AND FITTINGS REQUIRED TO ACCOMMODATE MECHANICAL EQUIPMENT CONNECTIONS, STRUCTURE, ARCHITECTURAL ELEMENTS, AND CHANGES IN DUCT SIZES.
- 5. ALL DUCTWORK SHALL BE CONSTRUCTED, ERECTED AND TESTED IN ACCORDANCE WITH THE STANDARDS ADOPTED BY SMACNA AND CHAPTER 6 OF THE 2022 CMC.
- 6. ALL DUCTWORK AND PIPING SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF THE 2022 CMC. INSULATION MATERIALS SHALL MEET THE CALIFORNIA QUALITY STANDARD PER SECTION 110.8, 120.3, AND 120.4 OF THE 2022 CALIFORNIA ENERGY CODE.
- ALL DUCT SIZES SHOWN ARE NET INSIDE DIMENSIONS. 8. DUCTWORK SHALL BE SHEET METAL CONSTRUCTED IN COMPLETE CONFORMANCE WITH CMC LATEST EDITION, CHAPTER 6 AND THE
- LATEST SMACNA HVAC DUCT CONSTRUCTION STANDARDS. 9. ALL DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO ANY CONSTRUCTION, INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENT SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR THE OWNER REPRESENTATIVE.
- 10. PROVIDE VOLUME DAMPERS IN ALL BRANCH DUCTS (SUPPLY, RETURN, OSA AND EXHAUST) FOR SYSTEM BALANCING.
- 11. HANDLE, STORE AND INSTALL ALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS AND AS DIRECTED IN THE PROJECT MANUAL.
- 12. ALL AIR SYSTEMS SHALL BE TESTED, ADJUSTED AND BALANCED TO MEET THE REQUIRED FLOW. TAB METHODOLOGY SHALL BE SUBMITTED TO OWNER REPRESENTATIVE PRIOR TO IMPLEMENTATION AND IN ACCORDANCE WITH PROJECT SEQUENCING.

#### ANCHORAGE & BRACING NOTES

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS. 2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- 3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

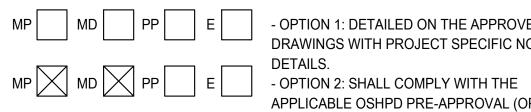
THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):



- OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. APPLICABLE OSHPD PRE-APPROVAL (OPM #)

#\_\_0043-13 MASON WEST INDUSTRIES\_\_

#### LEGEND

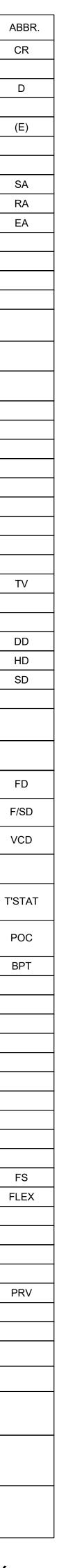
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| YMBOL  | ITEM  | ABBR.   |
|--|---|---|
|  | ABOVE   | ABV   |
|  | ABOVE CEILING<br>ABOVE FINISHED FLOOR   | ABV CLG<br>AFF  |
|  | ABOVE FINISHED FLOOR  | AFF   |
|  | AIR CONDITIONING  | AC  |
|  | AIR FLOW STATION  | AFS   |
|  | AIR HANDLER UNIT  | AHU   |
|  | ANALOG INPUT<br>ANALOG OUTPUT   | AI  |
| &  | AND   | AU  |
|  | ARCHITECT / ARCHITECTURAL   | ARCH  |
| @  | AT  |   |
|  | BACKDRAFT DAMPER  | BDD   |
|  | BELOW FINISH CEILING<br>BELOW FLOOR   | BFC<br>BEL FLR  |
|  | BELOW FLOOR<br>BELOW GRADE  | BEL FLK   |
|  | BLIND FLANGE  | BLF   |
|  | BRITISH THERMAL UNIT  | BTU   |
|  | BRITISH THERMAL UNIT PER HOUR   | BTUH  |
|  | CALIFORNIA MECHANICAL CODE<br>CALIFORNIA PLUMBING CODE  | CMC   |
|  | CALIFORNIA PLOMBING CODE  | CPC<br>CLG  |
| ς  | CENTER LINE   |   |
|  | CONTINUATION  | CONT  |
|  | CUBIC FEET OF AIR PER MINUTE  | CFM   |
|  | CURRENT SENSOR  | CS  |
| Φ  | DIAMETER<br>DIFFERENTIAL PRESSURE SWITCH  | DIA<br>DPS  |
|  | DIGITAL INPUT   | DPS   |
|  | DIGITAL OUTPUT  | DO  |
|  | DOWN  | DN  |
|  | DRAWING   | DWG   |
|  | ELECTRICAL  | ELEC  |
|  | ELBOW   | ELL<br>EXH  |
|  | EXHAUST AIR   | EA  |
|  | EXHAUST FAN   | EF  |
|  | EXISTING  | (E)   |
|  | FEET  | FT  |
|  | FLOOR   | FLR   |
|  | FLOW LINE<br>FLOW SWITCH  | FL<br>FS  |
|  | GAUGE   | GA  |
|  | GALLON  | GAL   |
|  | GALLONS PER HOUR  | GPH   |
|  | GALLONS PER MINUTE  | GPM   |
|  | INSIDE DIAMETER<br>MAKE-UP AIR UNIT   | ID<br>MAU   |
|  | MAXE-OF AIR ONT   | MAU   |
|  | MINIMUM   | MIN   |
|  | NEW   | (N)   |
|  | NOT IN CONTRACT   | NIC   |
|  | NOT TO SCALE  | NTS   |
| #  | NUMBER<br>OUTSIDE AIR   | NO.   |
|  |   | OD  |
|  | POUNDS  | LBS   |
|  | POUNDS PER SQUARE INCH  | PSI   |
|  | POUNDS PER SQUARE INCH ABSOLUTE   | PSIA  |
|  |   | PSIG  |
|  | POLYVINYL CHLORIDE<br>PRESSURE STATION  | PVC<br>PS   |
|  | RETURN AIR  | RA PS   |
|  | ROOM  | RM  |
|  | SUPPLY AIR  | SA  |
|  | SPECIFICATION   | SPEC  |
|  | SQUARE FEET<br>STAINLESS STEEL  | SQ FT<br>SS   |
|  | TEMPERATURE   | TEMP  |
|  | TEMPERATURE SENSOR  | TS  |
|  |   | 1   |
|  | THROUGH   | THRU  |
|  | TYPICAL   | (TYP)   |
|  | TYPICAL<br>UNDER GROUND   | (TYP)<br>U/G  |
|  | TYPICAL   | (TYP)   |
|  | TYPICAL<br>UNDER GROUND<br>VARIABLE AIR VOLUME UNIT   | (TYP)<br>U/G<br>VAV   |
| -BD  | TYPICAL<br>UNDER GROUND<br>VARIABLE AIR VOLUME UNIT<br>WITH   | (TYP)<br>U/G<br>VAV<br>W/   |
| BF   | TYPICAL<br>UNDER GROUND<br>VARIABLE AIR VOLUME UNIT<br>WITH<br>WITHOUT<br>BOILER BLOWDOWN<br>BOILER FEED  | (TYP)<br>U/G<br>VAV<br>W/   |
| -BF<br>-CF   | TYPICAL<br>UNDER GROUND<br>VARIABLE AIR VOLUME UNIT<br>WITH<br>WITHOUT<br>BOILER BLOWDOWN<br>BOILER FEED<br>CHEMICAL FEED   | (TYP)<br>U/G<br>VAV<br>W/<br>W/O  |
| -BF<br>-CF<br>A  | TYPICAL<br>UNDER GROUND<br>VARIABLE AIR VOLUME UNIT<br>WITH<br>WITHOUT<br>BOILER BLOWDOWN<br>BOILER FEED<br>CHEMICAL FEED<br>COMPRESSED AIR   | (TYP)<br>U/G<br>VAV<br>W/<br>W/O  |
| -BF<br>-CF<br>-A<br>CHWS                               | TYPICAL<br>UNDER GROUND<br>VARIABLE AIR VOLUME UNIT<br>WITH<br>WITHOUT<br>BOILER BLOWDOWN<br>BOILER FEED<br>CHEMICAL FEED   | (TYP)<br>U/G<br>VAV<br>W/<br>W/O  |
| -BF<br>-CF<br>-A<br>CHWS<br>CHWR                       | TYPICAL<br>UNDER GROUND<br>VARIABLE AIR VOLUME UNIT<br>WITH<br>WITHOUT<br>BOILER BLOWDOWN<br>BOILER FEED<br>CHEMICAL FEED<br>COMPRESSED AIR<br>CHILLED WATER SUPPLY   | (TYP)<br>U/G<br>VAV<br>W/<br>W/O  |
| -BF<br>-CF<br>CHWS<br>CHWR<br>CWS                      | TYPICAL<br>UNDER GROUND<br>VARIABLE AIR VOLUME UNIT<br>WITH<br>WITHOUT<br>BOILER BLOWDOWN<br>BOILER FEED<br>CHEMICAL FEED<br>COMPRESSED AIR<br>CHILLED WATER SUPPLY<br>CHILLED WATER RETURN   | (TYP)<br>U/G<br>VAV<br>W/<br>W/O<br>A<br>A<br>CHWS<br>CHWR  |
| -BF<br>-CF<br>CHWS<br>CHWR<br>CWS                      | TYPICAL<br>UNDER GROUND<br>VARIABLE AIR VOLUME UNIT<br>WITH<br>WITHOUT<br>BOILER BLOWDOWN<br>BOILER FEED<br>CHEMICAL FEED<br>COMPRESSED AIR<br>CHILLED WATER SUPPLY<br>CHILLED WATER RETURN<br>CONDENSER WATER SUPPLY<br>CONDENSER WATER RETURN   | (TYP)<br>U/G<br>VAV<br>W/<br>W/O<br>A<br>CHWS<br>CHWR<br>CWS<br>CWR   |
| -BF<br>-CF<br>CHWS<br>CHWR<br>CWS<br>CWR<br>-CW        | TYPICAL<br>UNDER GROUND<br>VARIABLE AIR VOLUME UNIT<br>WITH<br>WITHOUT<br>BOILER BLOWDOWN<br>BOILER FEED<br>CHEMICAL FEED<br>COMPRESSED AIR<br>CHILLED WATER SUPPLY<br>CHILLED WATER RETURN<br>CONDENSER WATER SUPPLY<br>CONDENSER WATER RETURN<br>DOMESTIC COLD WATER<br>HEATING HOT WATER SUPPLY  | (TYP)U/GVAVW/W/OACHWSCHWRCWSCWRHWS  |
| -BF<br>-CF<br>CHWS<br>CHWR<br>CWS<br>CWR<br>-CW<br>HWS | TYPICAL<br>UNDER GROUND<br>VARIABLE AIR VOLUME UNIT<br>WITH<br>WITHOUT<br>BOILER BLOWDOWN<br>BOILER FEED<br>CHEMICAL FEED<br>COMPRESSED AIR<br>CHILLED WATER SUPPLY<br>CHILLED WATER RETURN<br>CONDENSER WATER SUPPLY<br>CONDENSER WATER RETURN<br>DOMESTIC COLD WATER<br>HEATING HOT WATER SUPPLY<br>HEATING HOT WATER RETURN  | (TYP)         U/G         VAV         W/         W/O         A         CHWS         CHWR         CWS         CWR         HWS         HWR                                    |
| -BF<br>-CF<br>CHWS<br>CHWR<br>CWS<br>CWR<br>HWS<br>HWR | TYPICAL<br>UNDER GROUND<br>VARIABLE AIR VOLUME UNIT<br>WITH<br>WITHOUT<br>BOILER BLOWDOWN<br>BOILER FEED<br>CHEMICAL FEED<br>COMPRESSED AIR<br>CHILLED WATER SUPPLY<br>CHILLED WATER RETURN<br>CONDENSER WATER SUPPLY<br>CONDENSER WATER RETURN<br>DOMESTIC COLD WATER<br>HEATING HOT WATER SUPPLY<br>HEATING HOT WATER RETURN  | (TYP)         U/G         VAV         W/         W/O         A         CHWS         CHWR         CWS         CHWR         HWS         HWR         RD                        |
| -BF<br>-CF<br>CHWS<br>CHWR                             | TYPICAL<br>UNDER GROUND<br>VARIABLE AIR VOLUME UNIT<br>WITH<br>WITHOUT<br>BOILER BLOWDOWN<br>BOILER FEED<br>CHEMICAL FEED<br>COMPRESSED AIR<br>CHILLED WATER SUPPLY<br>CHILLED WATER RETURN<br>CONDENSER WATER SUPPLY<br>CONDENSER WATER RETURN<br>DOMESTIC COLD WATER<br>HEATING HOT WATER SUPPLY<br>HEATING HOT WATER RETURN  | (TYP)         U/G         VAV         W/         W/O         A         CHWS         CHWR         CWS         CWR         HWS         HWR                                    |
| -BF<br>-CF<br>CHWS<br>CHWR<br>CWS                      | TYPICAL<br>UNDER GROUND<br>VARIABLE AIR VOLUME UNIT<br>WITH<br>WITHOUT<br>BOILER BLOWDOWN<br>BOILER FEED<br>CHEMICAL FEED<br>COMPRESSED AIR<br>CHILLED WATER SUPPLY<br>CHILLED WATER RETURN<br>CONDENSER WATER SUPPLY<br>CONDENSER WATER RETURN<br>DOMESTIC COLD WATER<br>HEATING HOT WATER SUPPLY<br>HEATING HOT WATER SUPPLY<br>HEATING HOT WATER RETURN<br>REFRIGERANT DISCHARGE<br>REFRIGERANT LIQUID | (TYP)         U/G         VAV         W/         W/O         A         CHWS         CHWR         CWS         CHWR         HWS         HWS         HWR         RD         RL |

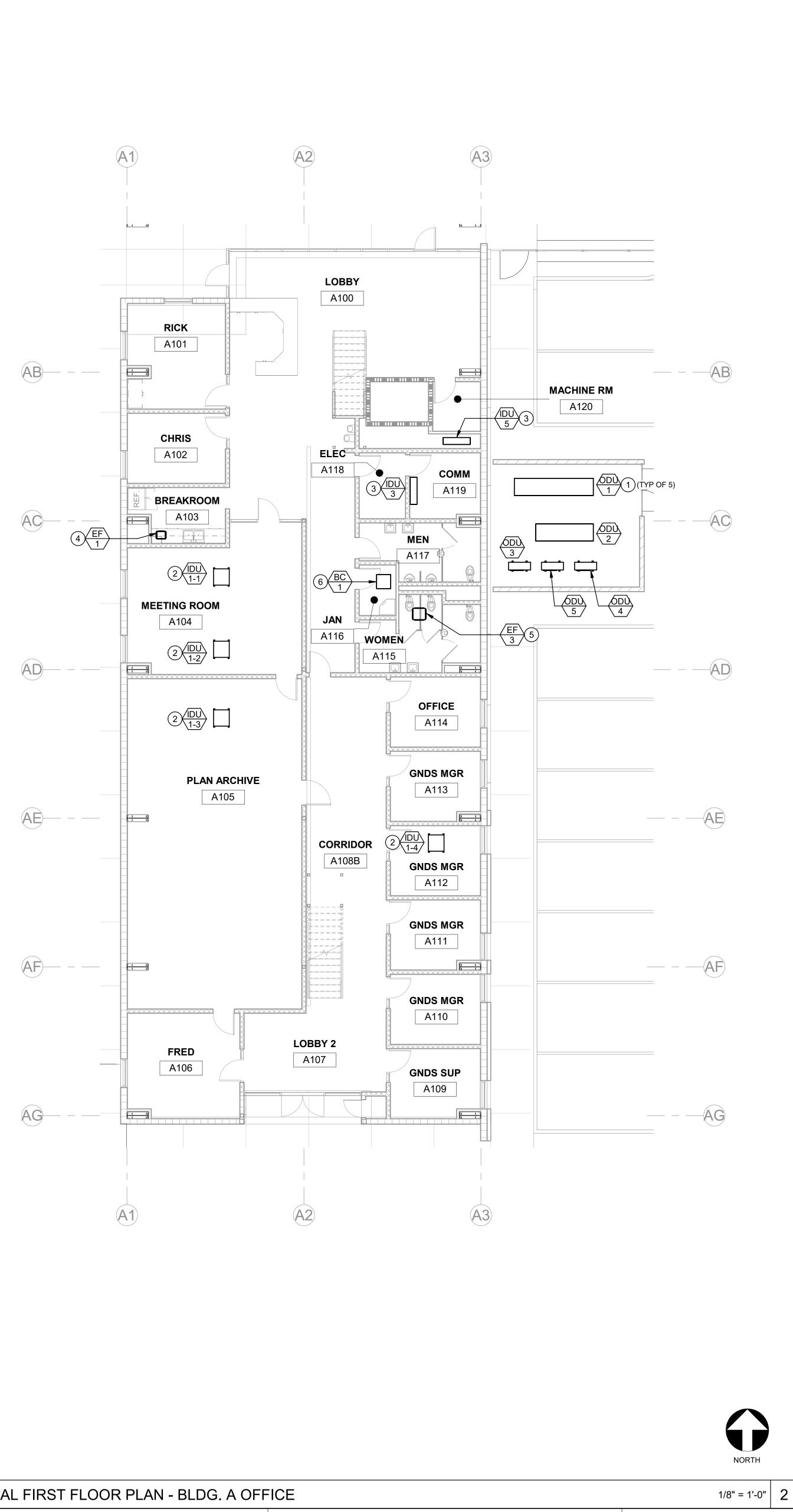
| SYMBOL                                 | ITEM  |  |
|--|---|--|
| CR                                     | STEAM CONDENSATE RETURN                                       |  |
| SBD                                    | SURFACE BLOWDOWN  |  |
| D                                      | DRAIN<br>PIPING CAP   |  |
|  | EXISTING (DESIGNATED)   |  |
|  | REMOVE / DEMO EXISTING (DESIGNATED)                           |  |
|  | DIRECTION OF FLOW   |  |
|  | SUPPLY AIR  |  |
|  | RETURN AIR  |  |
|  |   |  |
|  | PIPE/DUCT TURN DOWN PIPE/DUCT TURN UP                         |  |
|  | ROUND DUCT (SMALLER THAN 10¢)                                 |  |
| ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ROUND FLEXIBLE DUCT   |  |
|  | RECTANGULAR OR ROUND DUCT<br>(100 AND LARGER)                 |  |
|  | EXISTING DUCT   |  |
|  | (DESIGNATED)  |  |
|  | REMOVE/ DEMO EXISTING DUCT<br>(DESIGNATED)                    |  |
|  | DUCT WITH ACOUSTIC LINING                                     |  |
|  | SUPPLY AIR DUCT DROP  |  |
|  | SUPPLY AIR DUCT RISE<br>RETURN AIR DUCT DROP                  |  |
|  | RETURN AIR DUCT RISE  |  |
|  | EXHAUST AIR DUCT DROP   |  |
|  | EXHAUST AIR DUCT RISE   |  |
|  | OUTSIDE AIR DUCT DROP   |  |
|  | OUTSIDE AIR DUCT RISE   |  |
|  | TURNING VANES   |  |
|  | CO <sub>2</sub> SENSOR  |  |
|  | DUCT DETECTOR   |  |
| (HD)                                   | HEAT DETECTOR   |  |
| (SD)                                   | SMOKE DETECTOR  |  |
| M                                      | MOTORIZED DAMPER  |  |
| •                                      | FIRE DAMPER W/MOTORIZED RESET<br>AND ACCESS DOOR              |  |
|  | FIRE DAMPER WITH ACCESS PANEL                                 |  |
| +++++                                  | OR SECURITY BARS  |  |
| -OR-▲                                  |   |  |
| -OR-∎                                  | FIRE/SMOKE DAMPER WITH ACCESS PANEL                           |  |
| ]                                      | VOLUME CONTROL DAMPER WITH LOCKING<br>QUADRANT                |  |
|  | REMOTE T'STAT WITH SENSOR IN DUCT                             |  |
| (7)                                    | THERMOSTAT; THERMOSTAT LABEL<br>EXAMPLE : THERMOSTAT FOR AC-1 |  |
| <u>AC-1</u>                            | MOUNT AT +48" AFF TO TOP OF BOX                               |  |
|  | POINT OF CONNECTION<br>TO EXISTING                            |  |
|  | BYPASS TIMER  |  |
|  | THERMOMETER   |  |
| (Y                                     | PRESSURE GAGE   |  |
|  | SECURITY BARS   |  |
| Y                                      | PETE'S PLUG<br>BALANCING COCK                                 |  |
|  | BALL VALVE  |  |
|  | BUTTERFLY VALVE   |  |
|  | CHECK VALVE   |  |
|  | CONCENTRIC REDUCER  |  |
|  |   |  |
|  | FLOW SWITCH<br>FLEXIBLE CONNECTION                            |  |
|  | GATE VALVE  |  |
|  | GLOBE VALVE   |  |
|  | INSTRUMENT WELL   |  |
|  |   |  |
|  | PRESSURE RELIEF VALVE "Y" TYPE STRAINER                       |  |
|  | UNION   |  |
| (1)                                    | KEYNOTE   |  |
| $\overline{\langle A \rangle}$         | GRILLE TAG  |  |
| $\sim$                                 | NEW EQUIPMENT TAG   |  |
| EF<br>8                                | EXAMPLE: DESCRIPTION EF,                                      |  |
| ~<br>                                  | MARK NUMBER 8   |  |
| (2<br>(M202)                           | DETAIL REFERENCE<br>EXAMPLE: DETAIL 2, SHEET                  |  |
|  | M202  |  |
| 3<br>M400                              | SECTION REFERENCE<br>EXAMPLE: SECTION 3, SHEET M400           |  |
| 1/1400                                 |   |  |

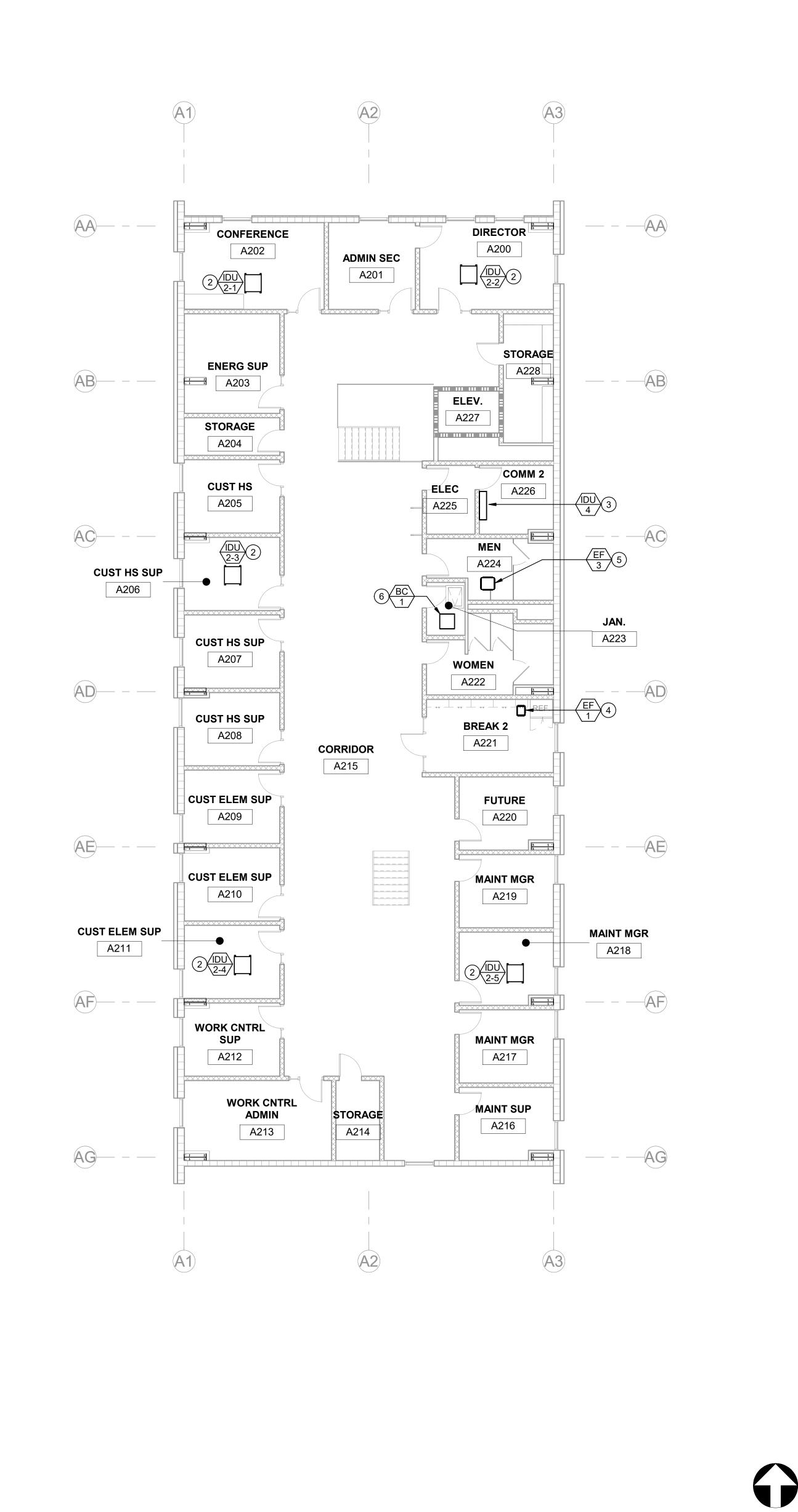
#### MECHANICAL SHEET INDEX

| M001 | MECHANICAL SCHEDULES, LEGENDS, AND NOTES |
|------|--|
| M200 | MECHANICAL FLOOR PLANS - BUILDING A      |
| M210 | MECHANICAL FLOOR PLAN - BUILDING B       |
| M220 | MECHANICAL FLOOR PLAN - BUILDING C       |
| M230 | MECHANICAL FLOOR PLAN - BUILDING D       |
|      |  |



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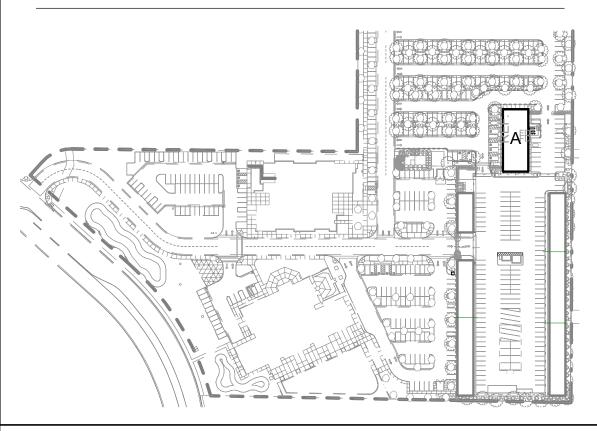




1 GROUND MOUNTED OUTDOOR UNIT IN MECHANICAL YARD. 2 DUCTED INDOOR UNIT SUSPENDED ABOVE CEILING. 3 WALL MOUNTED INDOOR UNIT.

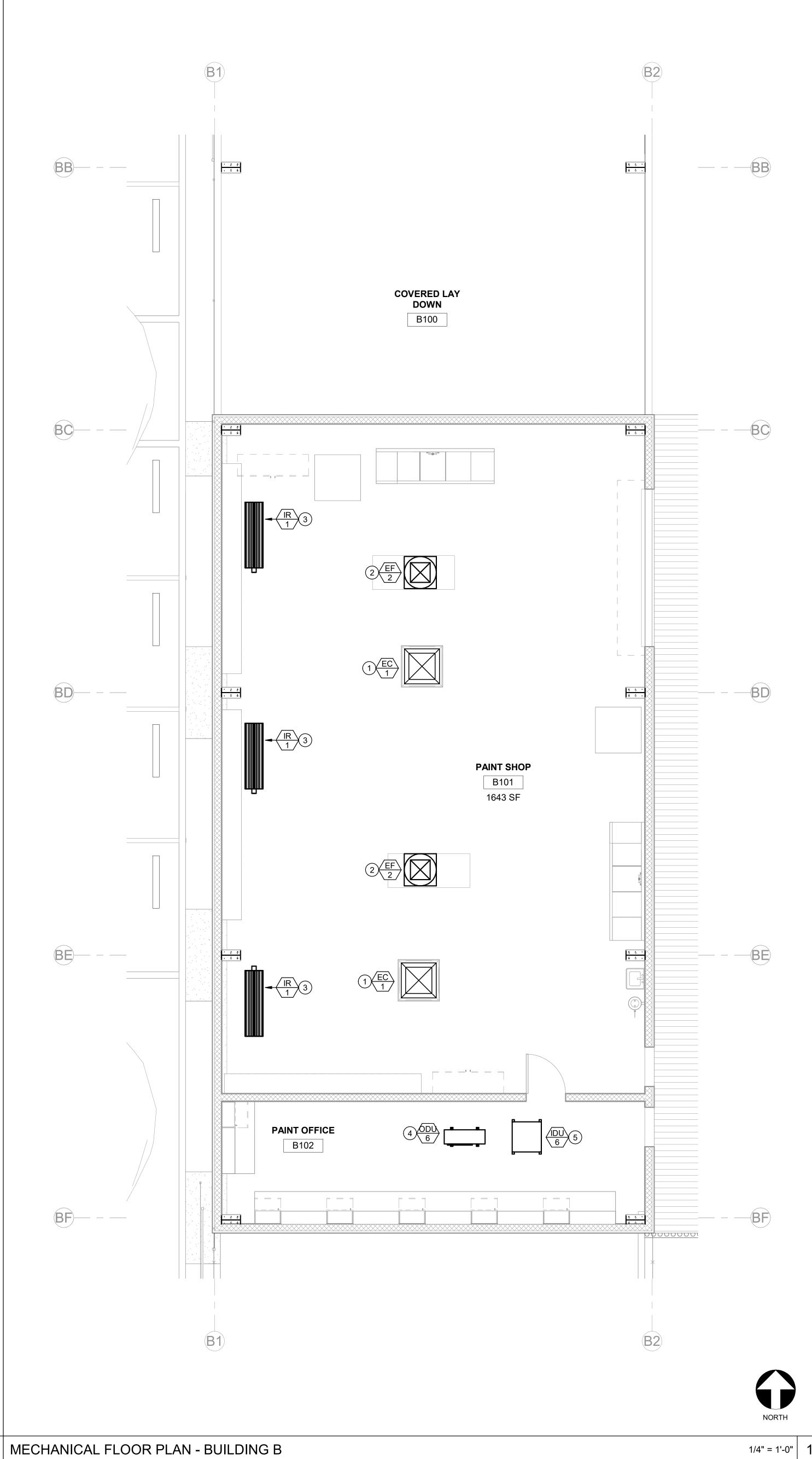
- 4 CEILING MOUNTED EXHAUST FAN.
- 5 INLINE EXHAUST FAN SUSPENDED ABOVE CEILING.
- 6 BRANCH CONTROLLER BOX SUSPENDED ABOVE CEILING.

#### KEY PLAN



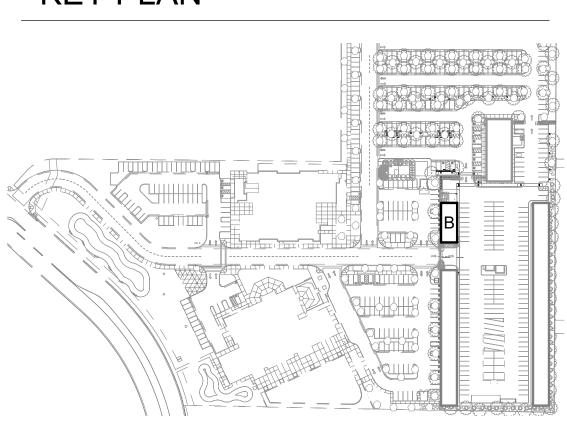
NORTH





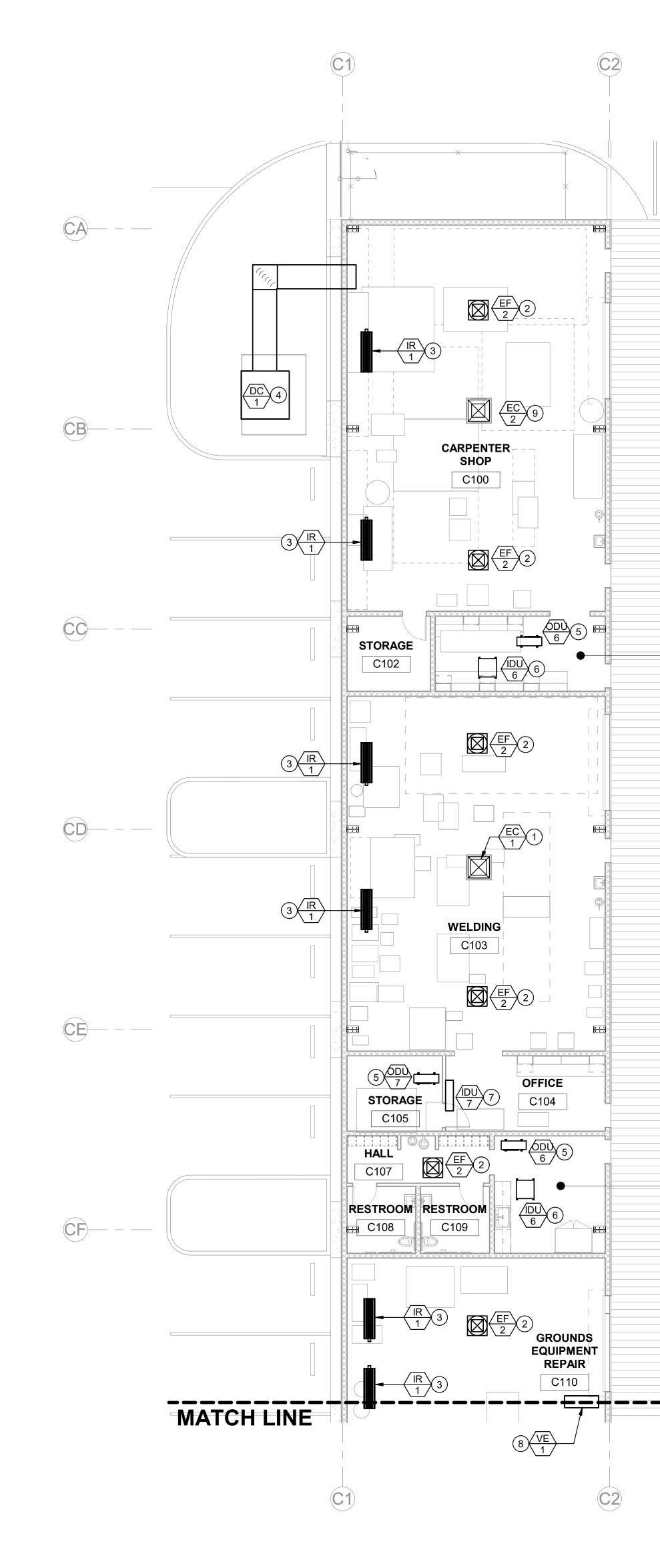
- 1 ROOF MOUNTED EVAPORATIVE COOLER ON STAND. DROP DUCT DOWN THRU ROOF. 2 ROOF MOUNTED EXHAUST FAN.
- 3 ELECTRIC RADIANT HEATER SUSPENDED FROM ROOF
- STRUCTURE. 4 ROOF MOUNTED OUTDOOR UNIT ON PLATFORM.
- 5 DUCTED INDOOR UNIT SUSPENDED FROM ROOF STRUCTURE.

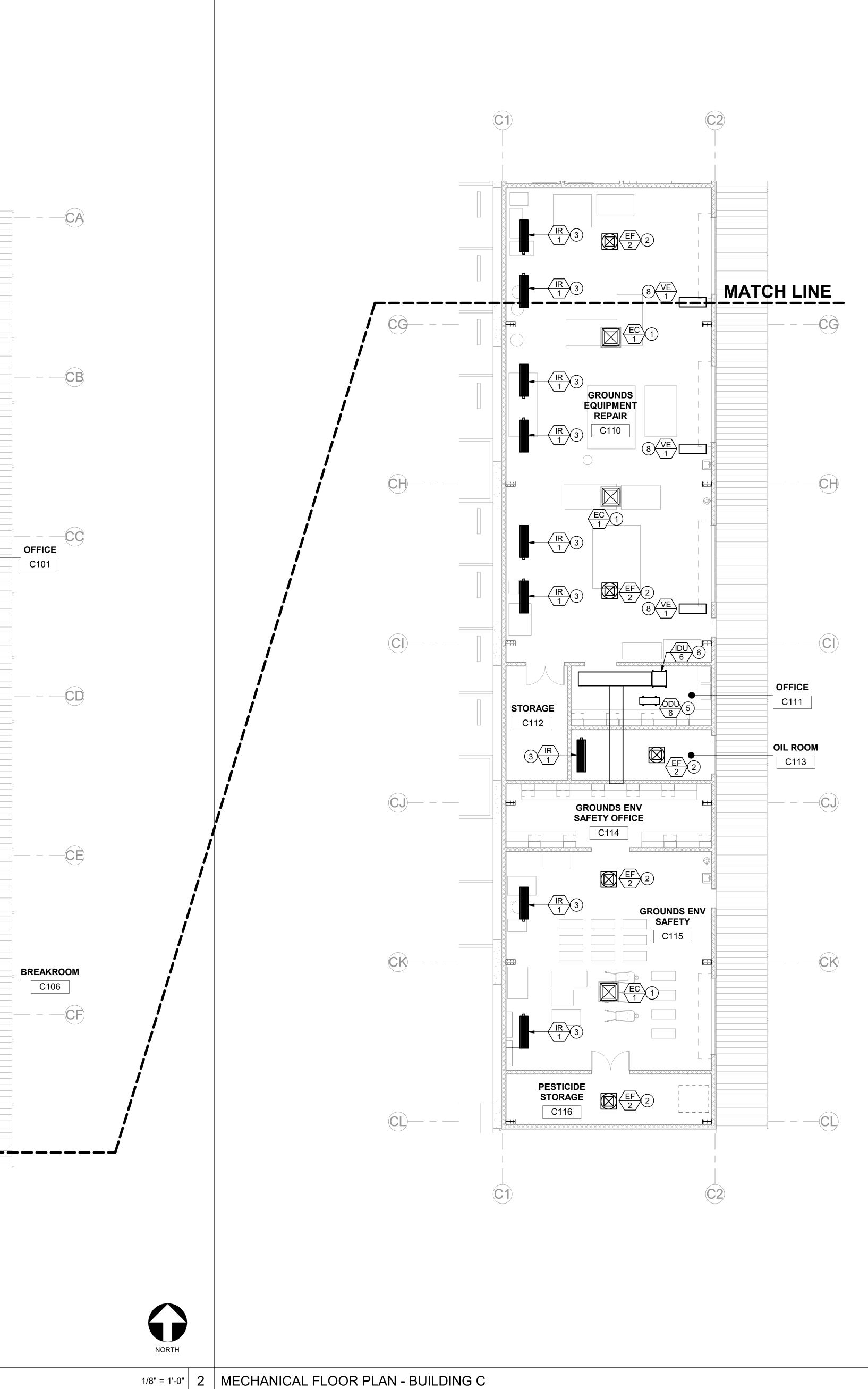
KEY PLAN



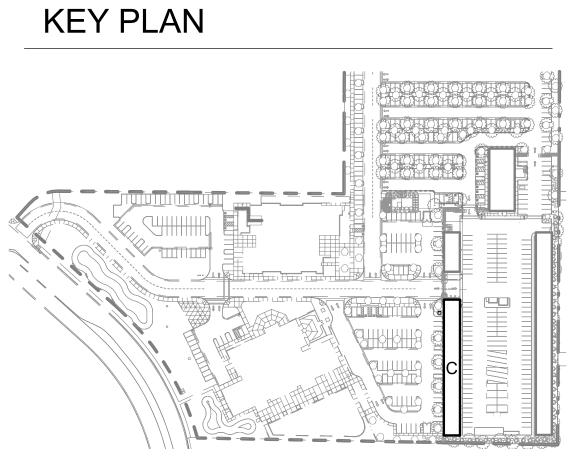








- 1 ROOF MOUNTED EVAPORATIVE COOLER ON STAND. DROP DUCT DOWN THRU ROOF.
- 2 ROOF MOUNTED EXHAUST FAN.
- 3 ELECTRIC RADIANT HEATER SUSPENDED FROM ROOF STRUCTURE.
- 4 DUST COLLECTOR IN MECHANICAL YARD. 5 ROOF MOUNTED OUTDOOR UNIT.
- 6 DUCTED INDOOR UNIT SUSPENDED FROM ROOF
- STRUCTURE.
- 7 WALL MOUNTED INDOOR UNIT.
- 8 VEHICLE EXHAUST HOSE REEL SUSPENDED FROM ROOF STRUCTURE. 9 ROOF MOUNTED INDIRECT EVAPORATIVE COOLER ON STAND. DROP DUCT DOWN THRU ROOF.

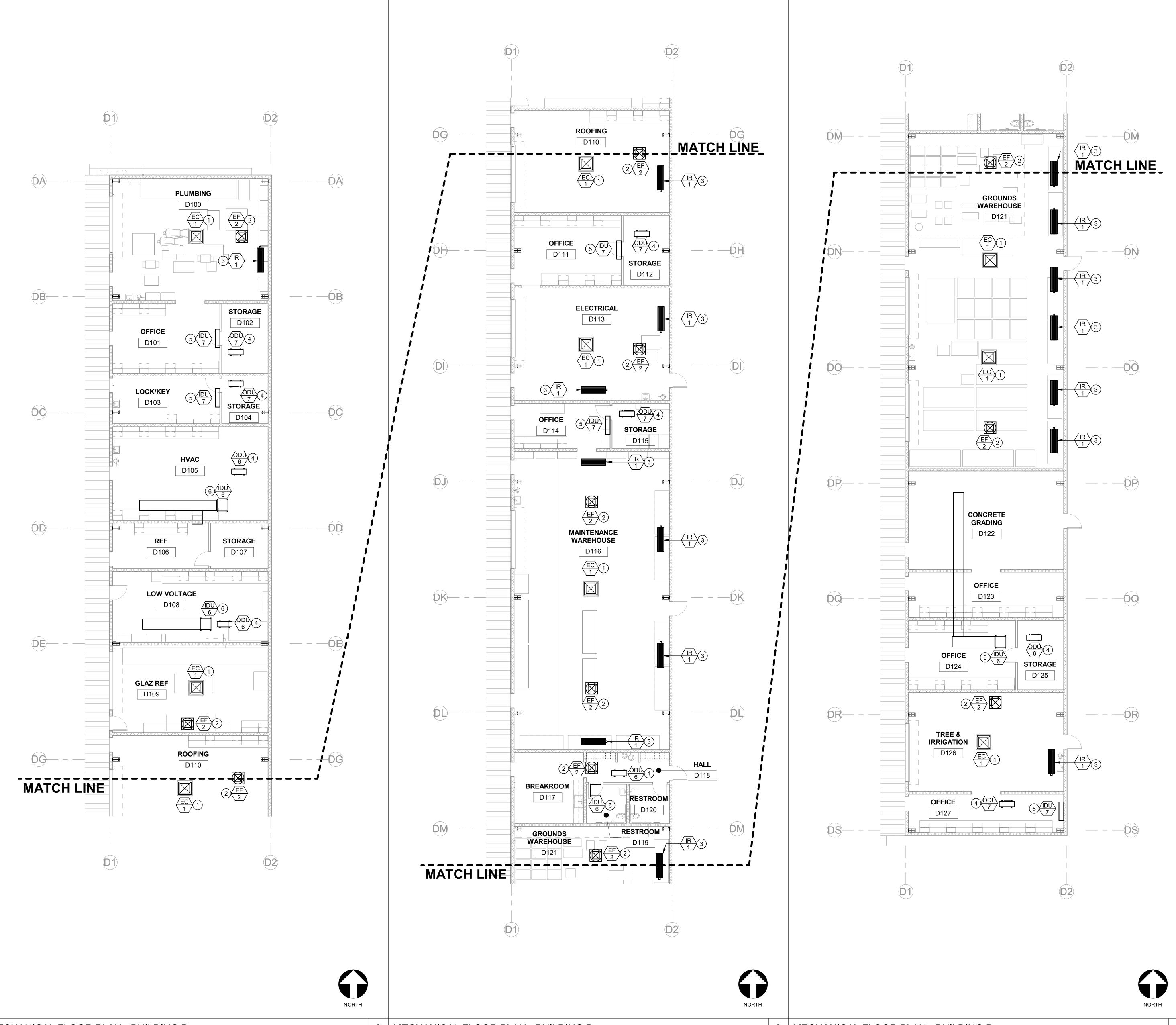


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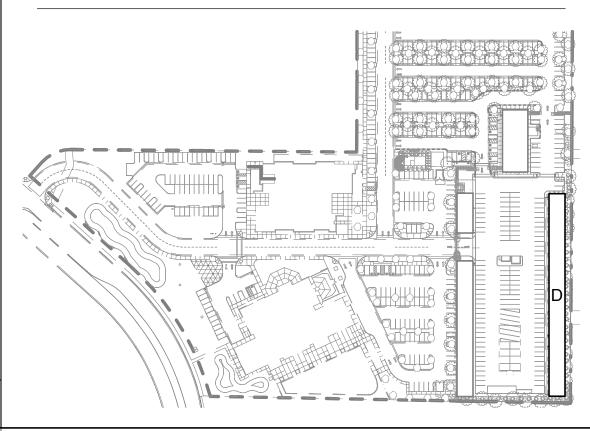


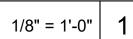




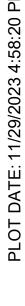
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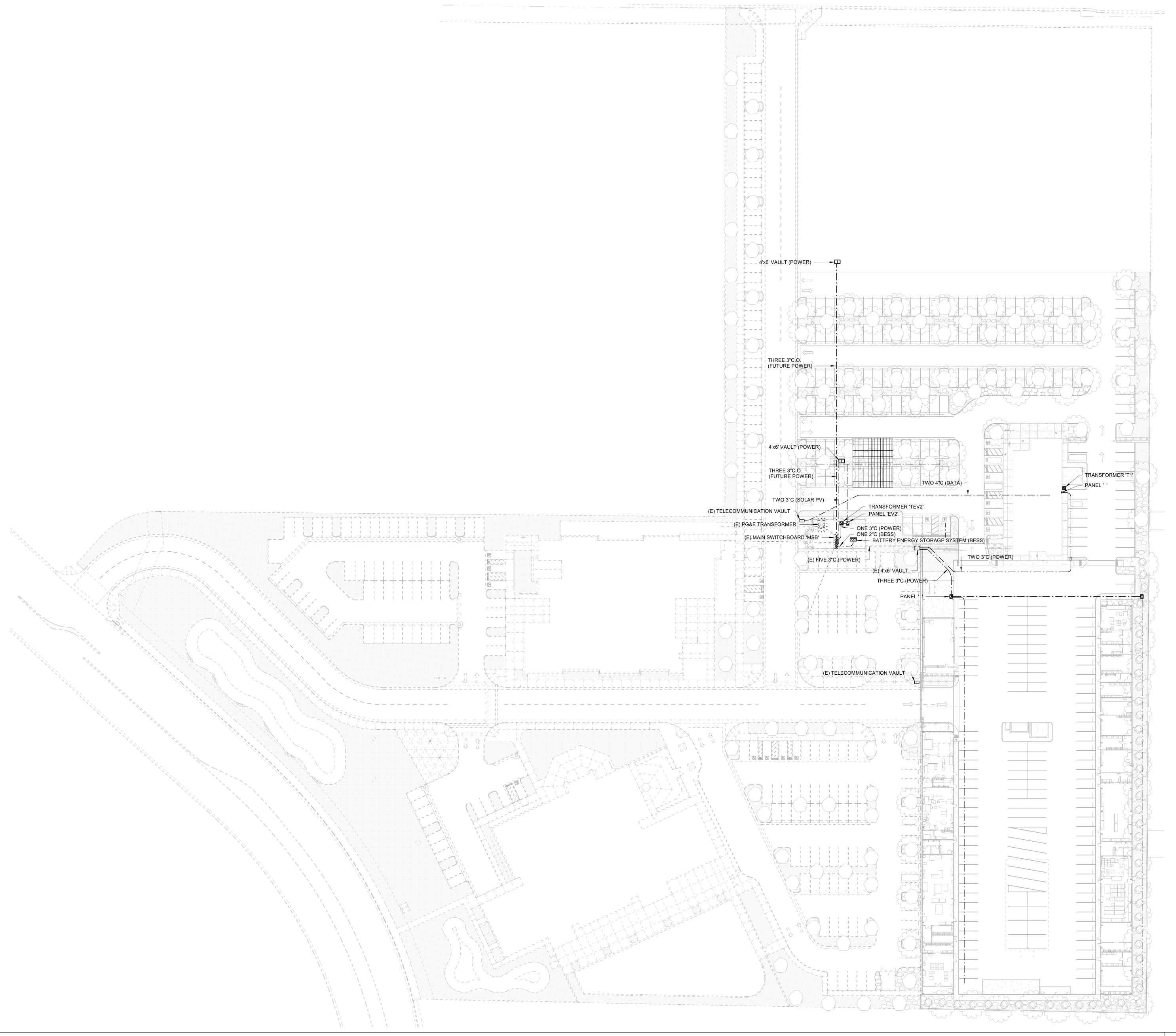
KEY PLAN

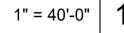




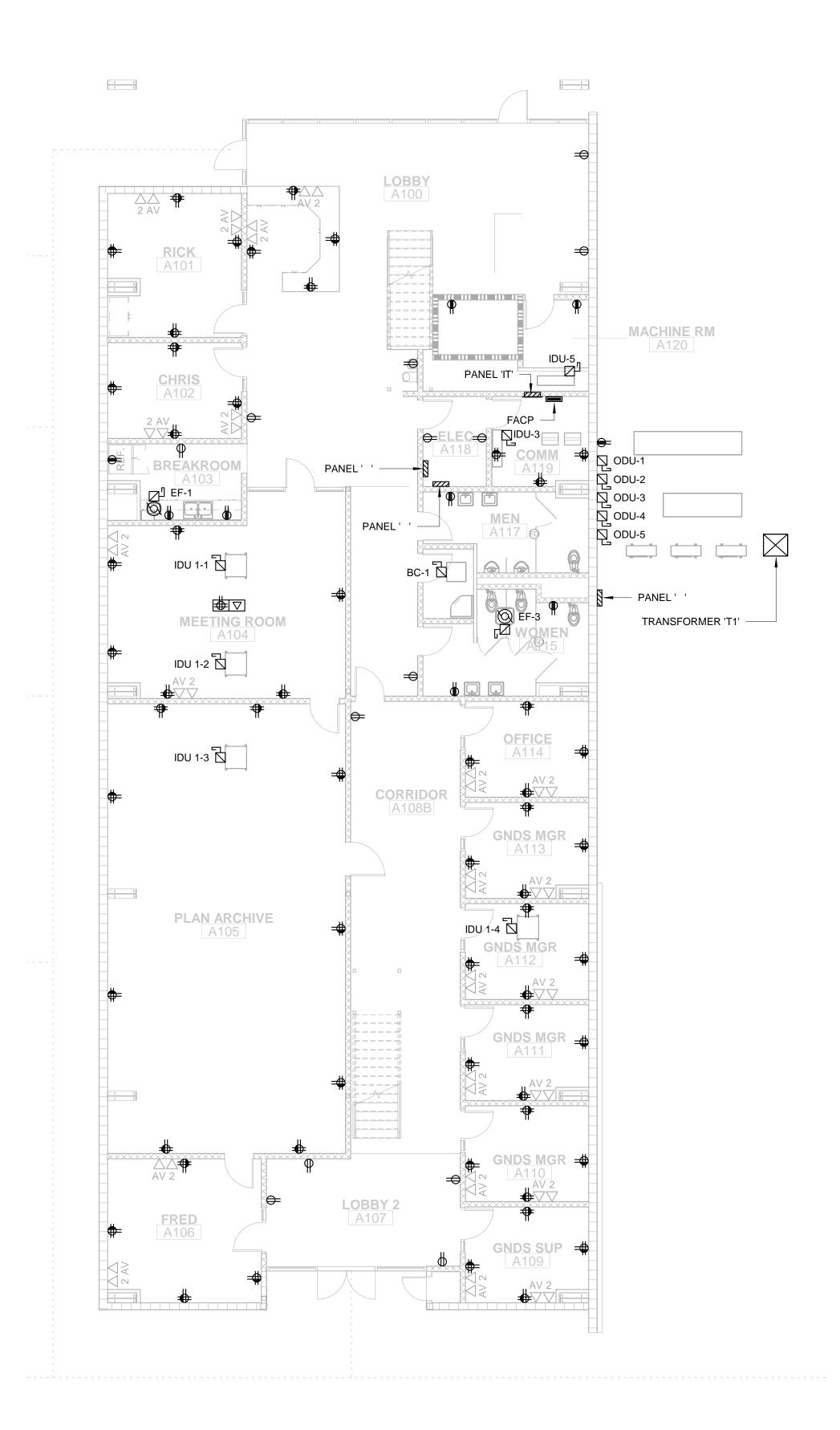








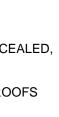




#### KEYNOTES

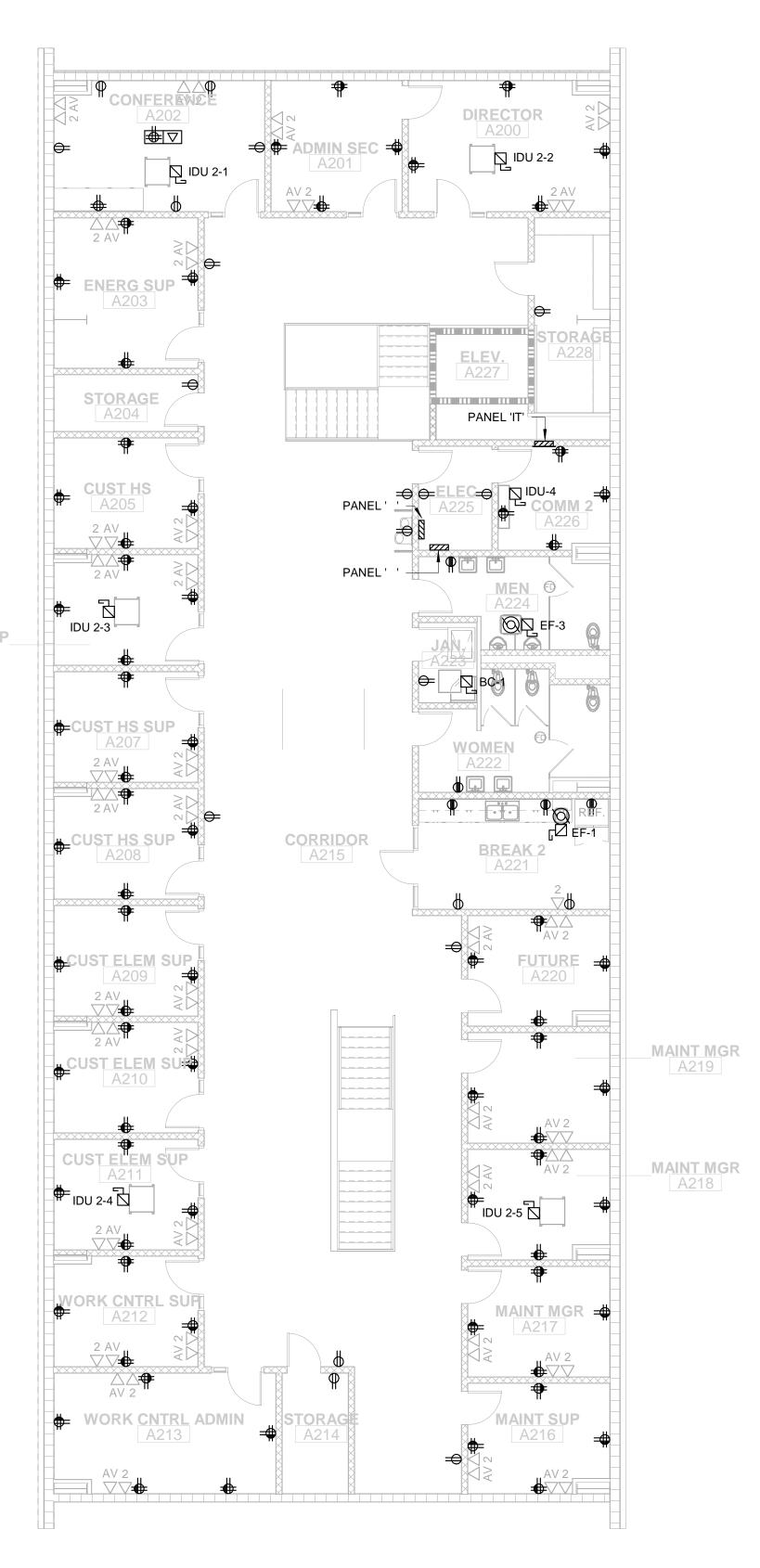
1 -

- A. PROVIDE ELECTRICAL FEEDERS PER SINGLE LINE DIAGRAM.
- B. CONDUIT AND CONDUCTORS FOR NEW OUTLETS SHALL BE CONCEALED, U.O.N.
- C. PENETRATIONS THROUGH WALLS, CEILINGS, FLOORS, AND/OR ROOFS SHALL BE SEALED.
- D. ALL 120V, 15A AND 20A RECEPTACLES WITHIN KITCHENS AND RESTROOMS SHALL BE GFCI TYPE RECEPTACLES. IN ALL OTHER SPACES, 120V, 15A AND 20A RECEPTACLES WITHIN 6' OF SINKS OR FAUCETS SHALL BE GFCI TYPE RECEPTACLES.





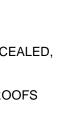
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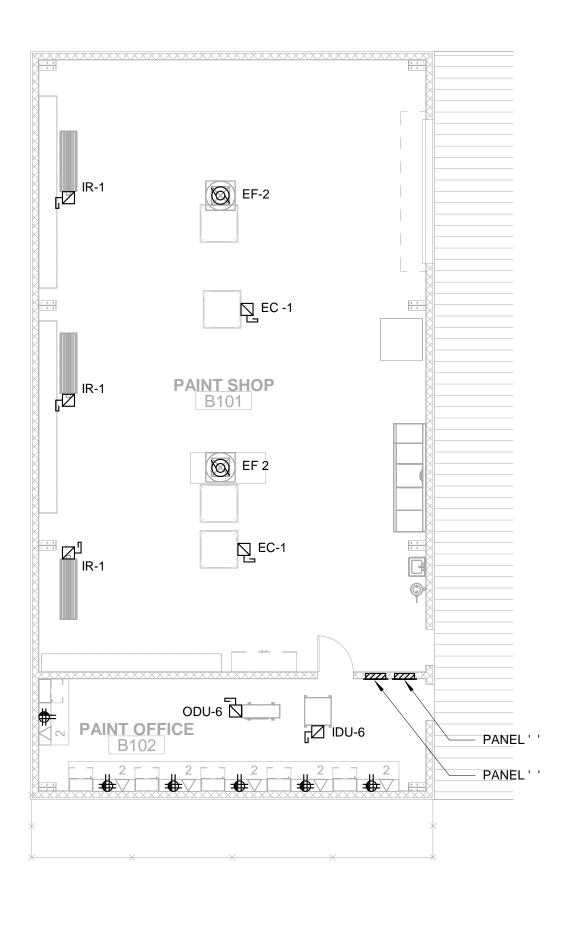
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#### KEYNOTES

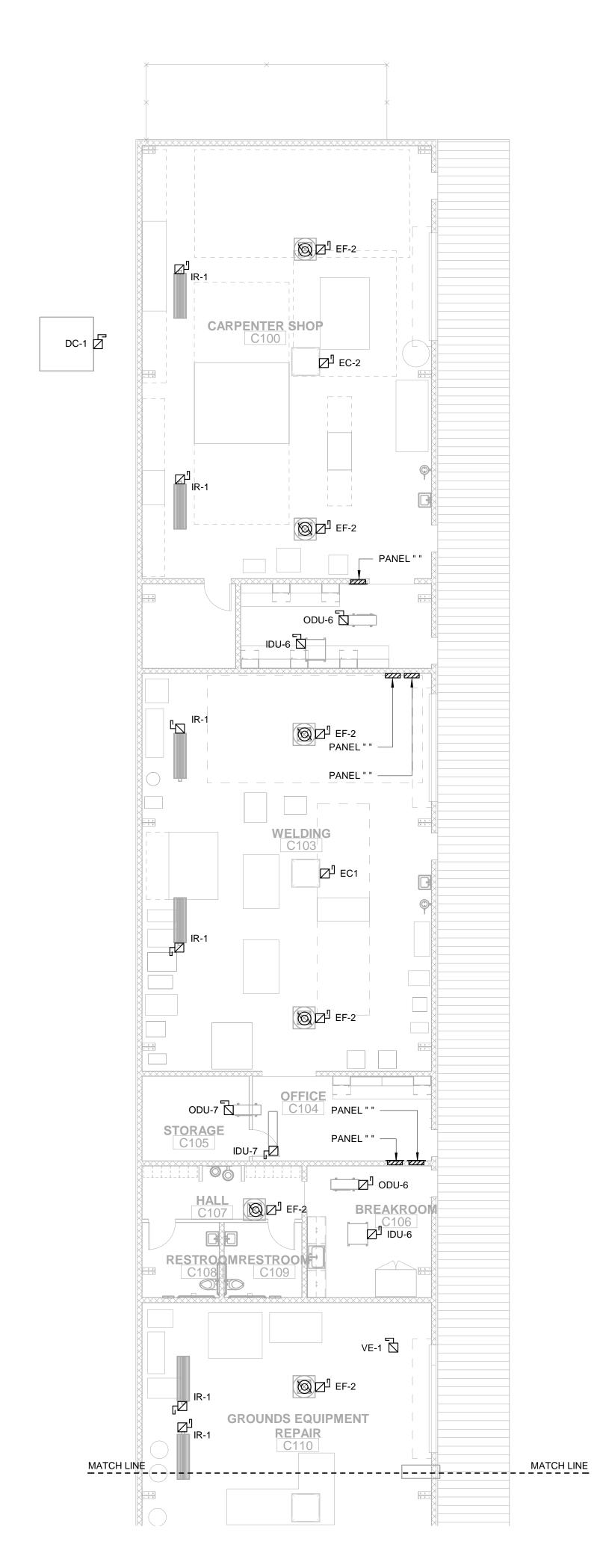
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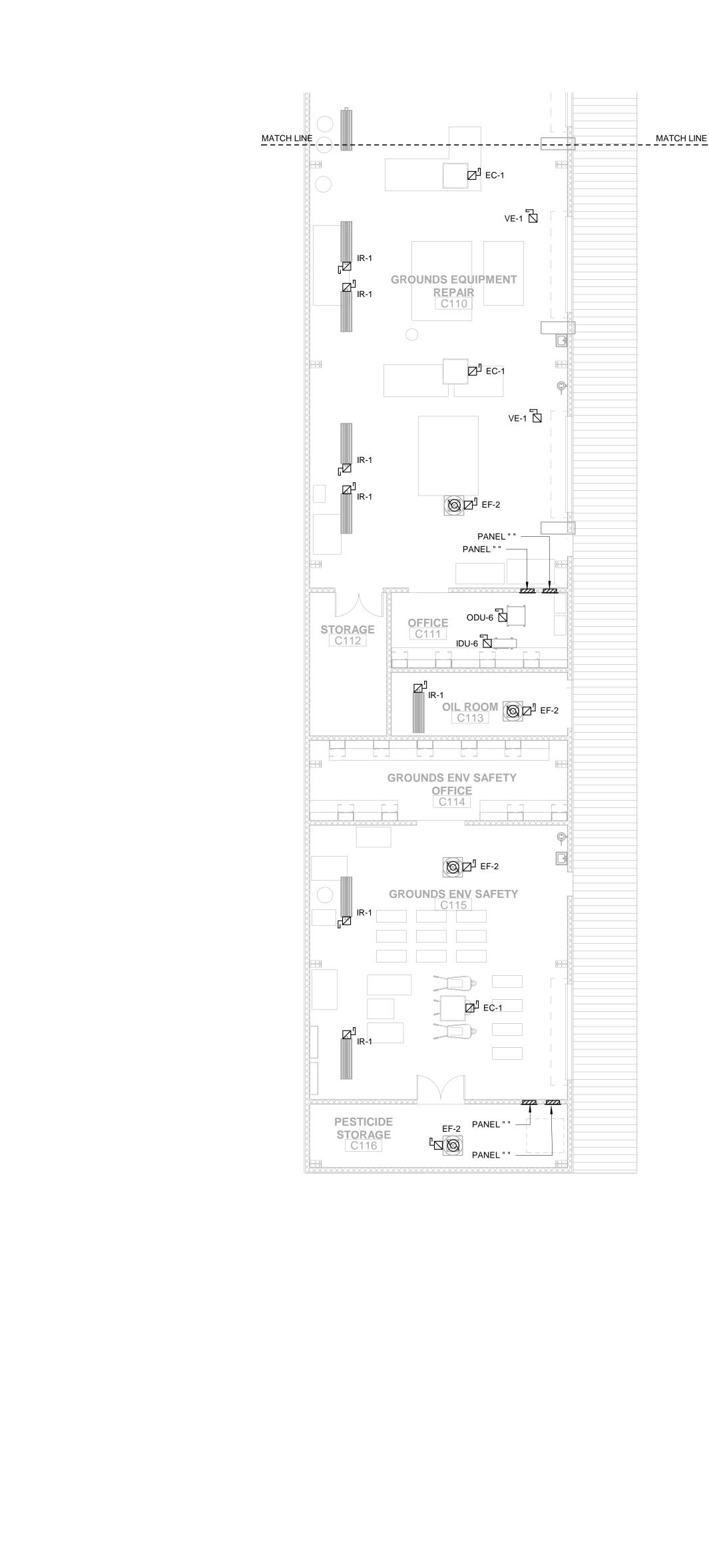
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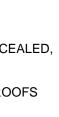






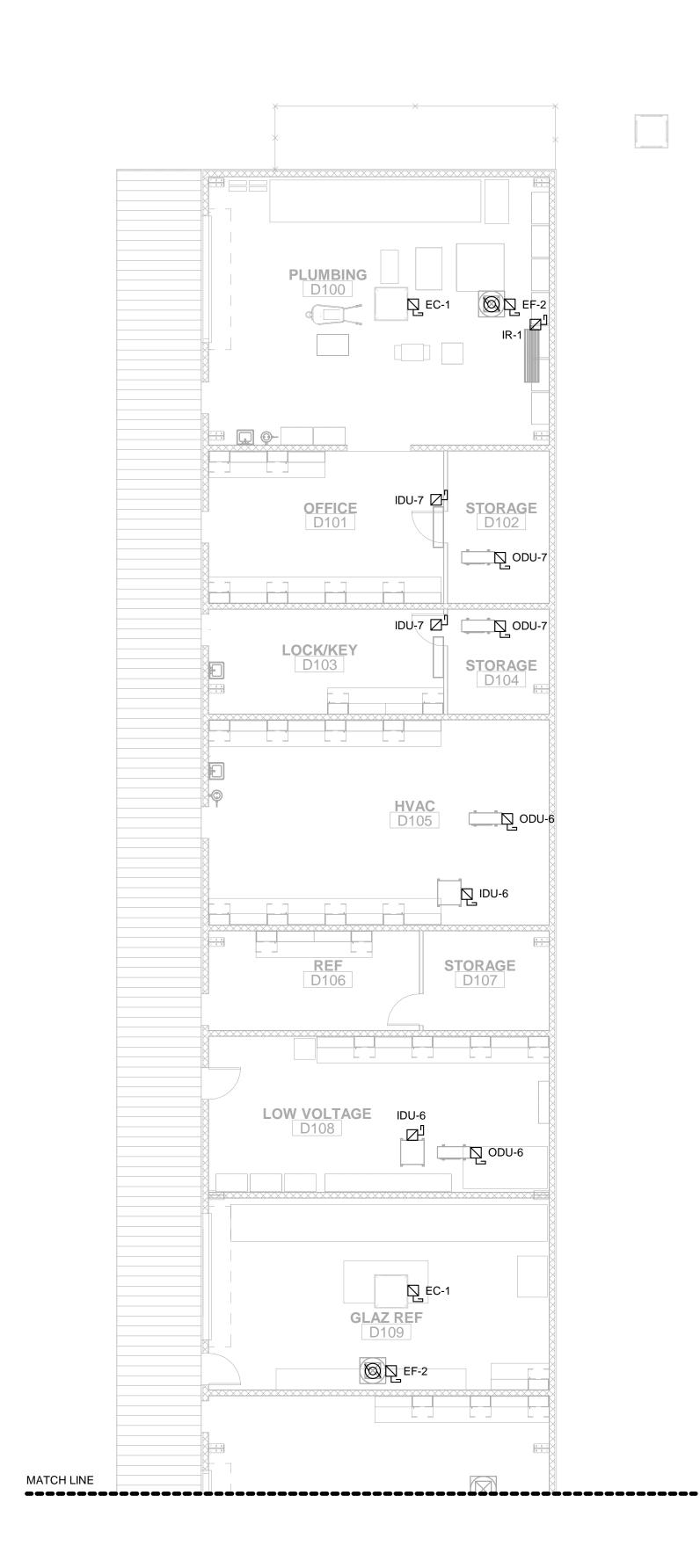
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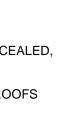




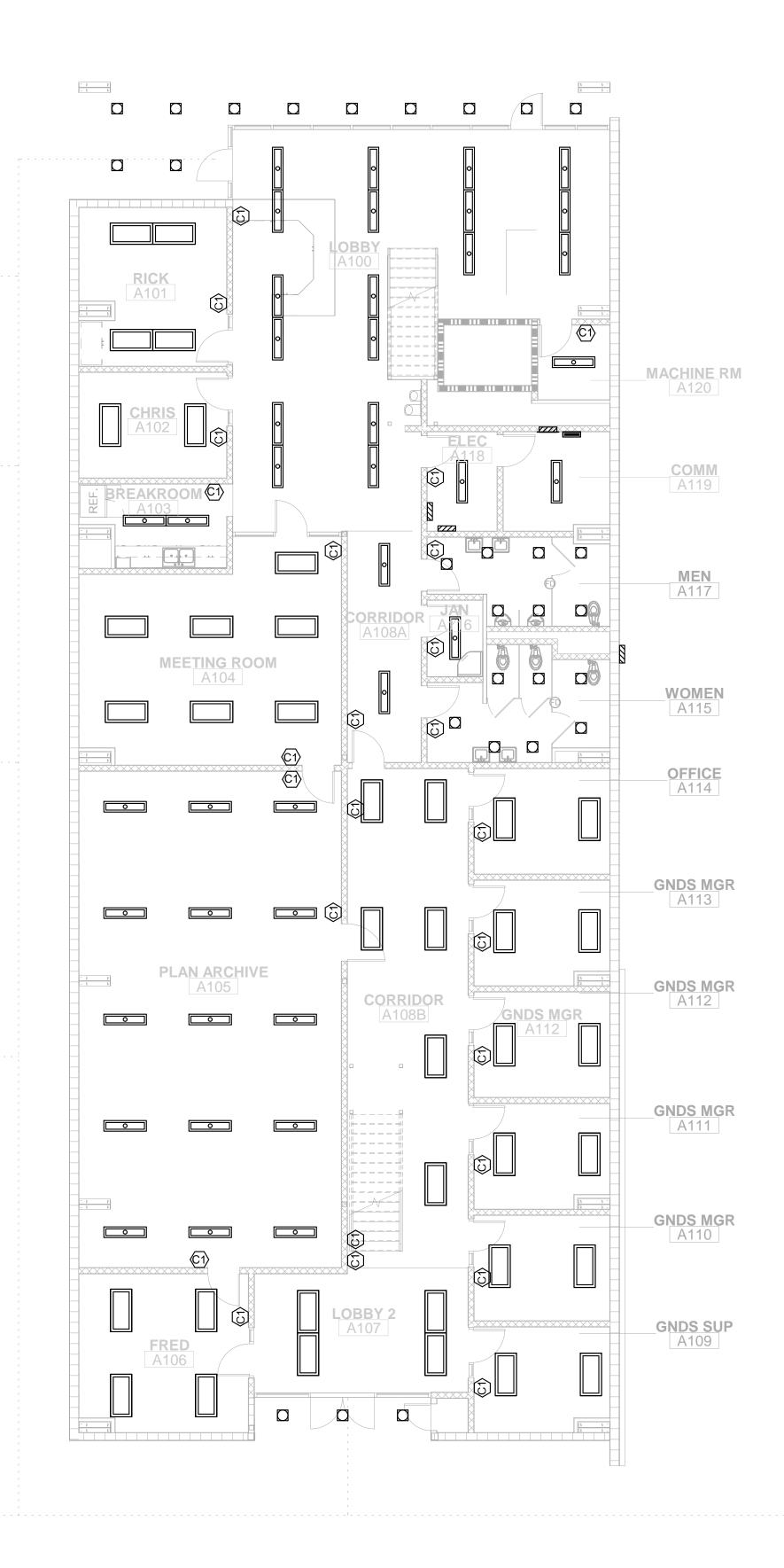


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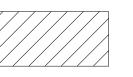
1 -2 -

# LIGHTING WIRING LEGEND

|  | NG BRANCH<br>WING BRAN<br>HOT - 1#12<br>NEUTRAL -<br>EQUIPMEN                                       | CH CIRC<br>CU THHM<br>1#12 CU                                  | UIT COND<br>I (BROWN<br>THHN (WI                            | UCTORS<br>I, ORANC<br>HITE WIT          | S:<br>Ge or ye<br>Th colof  |
|--|---|--|---|---|-----------------------------|
|  | 2 CATEGOF<br>2J45 CONNE   |  |   |   | LE GREE                     |
|  | IC-PCS MC<br>WING CIRCU<br>CONTROLL<br>UNSWITCH<br>NEUTRAL -<br>EQUIPMEN<br>0-10VDC CO<br>(PURPLE & | JIT COND<br>ED HOT<br>IED HOT<br>1#12 CU<br>T GROUN<br>ONTROL: | UCTORS:<br>- 1#12 CU<br>- 1#12 CU<br>THHN (GF<br>NDING - 1# | THHN (B<br>THHN (C<br>REY)<br>±12 CU TI | ROWN)<br>RANGE)<br>HHN (GRI |
|  | IC-PCS MC<br>WING CIRCU<br>CONTROLL<br>NEUTRAL -<br>EQUIPMEN<br>0-10VDC CI<br>(PURPLE &             | JIT COND<br>ED HOT<br>1#12 CU<br>T GROUN<br>ONTROL:            | UCTORS:<br>- 1#12 CU<br>THHN (GF<br>NDING - 1#              | THHN (B<br>REY)<br>12 CU TI             | ROWN)<br>HHN (GRI           |
|  |   |  |   |   |                             |

## LIGHTING SYMBOL LEGEND

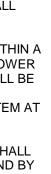
PRIMARY SIDELIT ZONE:



- M NETWORK CEILING MOUNTED OCCUPANCY SENSOR
- C1 SINGLE-ZONE NETWORK DIMMING MANUAL CONTROL STATION AT +48" TO TOP OF OUTLET BOX
- SINGLE-ZONE NETWORK DIMMING MANUAL CONTROL STATION AT +48" TO TOP OF OUTLET BOX WITH STAINLESS STEEL LOCKING
- COVER PLATE C4 FOUR-SCENE NETWORK DIMMING MANUAL CONTROL STATION AT +48" TO TOP OF OUTLET BOX
- (DS) NETWORK DAYLIGHTING SENSOR WITHIN DAYLIT ZONE
- (P) NETWORK DIMMING CONTROL RELAY
- (RP) NETWORK PLUG LOAD CONTROLLER RELAY
- NETWORK GATEWAY
- (nB) NETWORK BRIDGE
- AD NETWORK AUTOMATED DEMAND RESPONSIVE CONTROL INTERFACE
- WALL SWITCH WITH INTEGRAL OCCUPANCY SENSOR AT +48" TO TOP OF OUTLET BOX

#### **GENERAL NOTES**

- A. CIRCUITS SUPPLYING EMERGENCY LIGHTING FIXTURES SHALL BE SUPPLIED BY A CONTROLLED HOT CONDUCTOR AND A CONSTANT HOT CONDUCTOR OF THE SAME BRANCH CIRCUIT.
- B. EXIT SIGNAGE AND WALL MOUNTED EMERGENCY LIGHTING UNITS SHALL BE SUPPLIED BY AN UNSWITCHED HOT CONDUCTOR.
- C. REFER TO ARCHITECTURAL SHEETS FOR ELEVATIONS OF WALL MOUNTED LIGHTING FIXTURES.
- D. NETWORK DAYLIGHT SENSORS FOR AUTOMATIC DIMMING WITHIN A DAYLIT ZONE SHALL BE CALIBRATED SUCH THAT LIGHTING POWER FOR THE LIGHTING FIXTURES WITHIN THAT DAYLIT ZONE SHALL BE REDUCED BY 65% WHEN DAYLIT ILLUMINANCE IS 150% OF ILLUMINANCE RECEIVED FROM THE GENERAL LIGHTING SYSTEM AT FULL POWER.
- LIGHTING CONTROLS SHALL BE DEMAND RESPONSIVE AND SHALL AUTOMATICALLY REDUCE BUILDING LIGHTING POWER DEMAND BY Ε. 15% IN RESPONSE TO A DEMAND RESPONSE SIGNAL PER 2016 CA ENERGY CODE SECTION 130.1 (e).



REEN) IG 2#16 CU TFN

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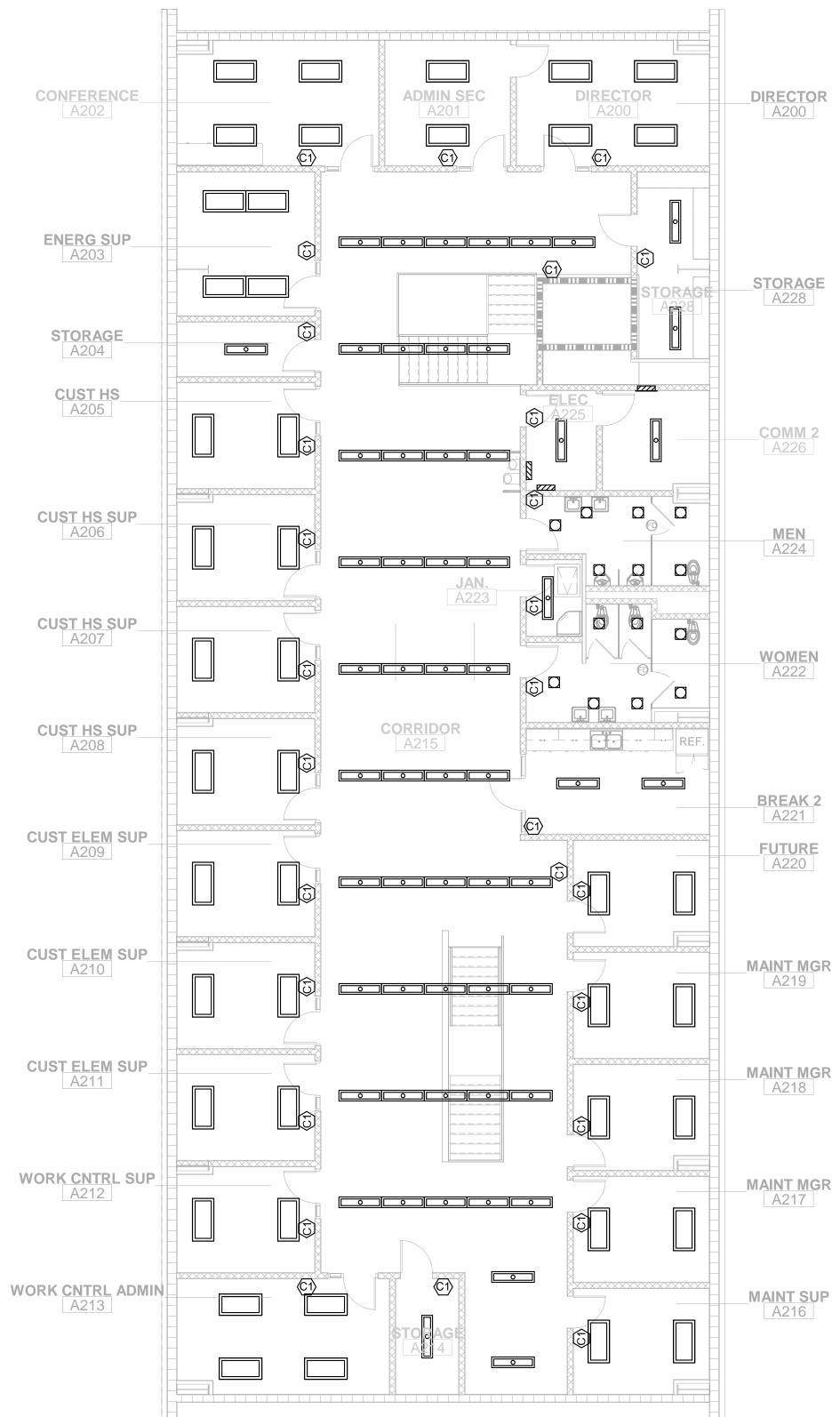
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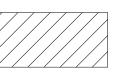
1 -2

# LIGHTING WIRING LEGEND

|                  | NG BRANCH<br>WING BRAN<br>HOT - 1#12<br>NEUTRAL -<br>EQUIPMEN                                    | ICH CIRC<br>CU THHI<br>1#12 CU                                  | UIT CONE<br>N (BROWI<br>THHN (W                           | OUCTOR:<br>N, ORAN<br>HITE WI               | s:<br>Ge or ye<br>Th colof     |
|------------------|--|---|---|---|--------------------------------|
|                  | 2 CATEGOF<br>J45 CONNE   |   |   |   | LE GREE                        |
| <br>FOLLO\<br>1. | IC-PCS MC<br>WING CIRCI<br>CONTROLI<br>UNSWITCH<br>NEUTRAL<br>EQUIPMEN<br>0-10VDC C<br>(PURPLE 8 | JIT CONE<br>ED HOT<br>IED HOT<br>1#12 CU<br>IT GROUN<br>ONTROL: | OUCTORS<br>- 1#12 CU<br>- 1#12 CU<br>THHN (G<br>NDING - 1 | :<br>THHN (E<br>THHN (C<br>REY)<br>#12 CU T | BROWN)<br>DRANGE)<br>THHN (GRI |
|                  | IC-PCS MC<br>WING CIRCI<br>CONTROLI<br>NEUTRAL<br>EQUIPMEN<br>0-10VDC C<br>(PURPLE 8             | JIT CONE<br>_ED HOT<br>· 1#12 CU<br>IT GROUN<br>ONTROL:         | OUCTORS<br>- 1#12 CU<br>THHN (G<br>NDING - 1              | :<br>  THHN (E<br>REY)<br>#12 CU T          | BROWN)<br>THHN (GRI            |
|                  |  |   |   |   |                                |

## LIGHTING SYMBOL LEGEND

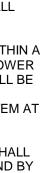
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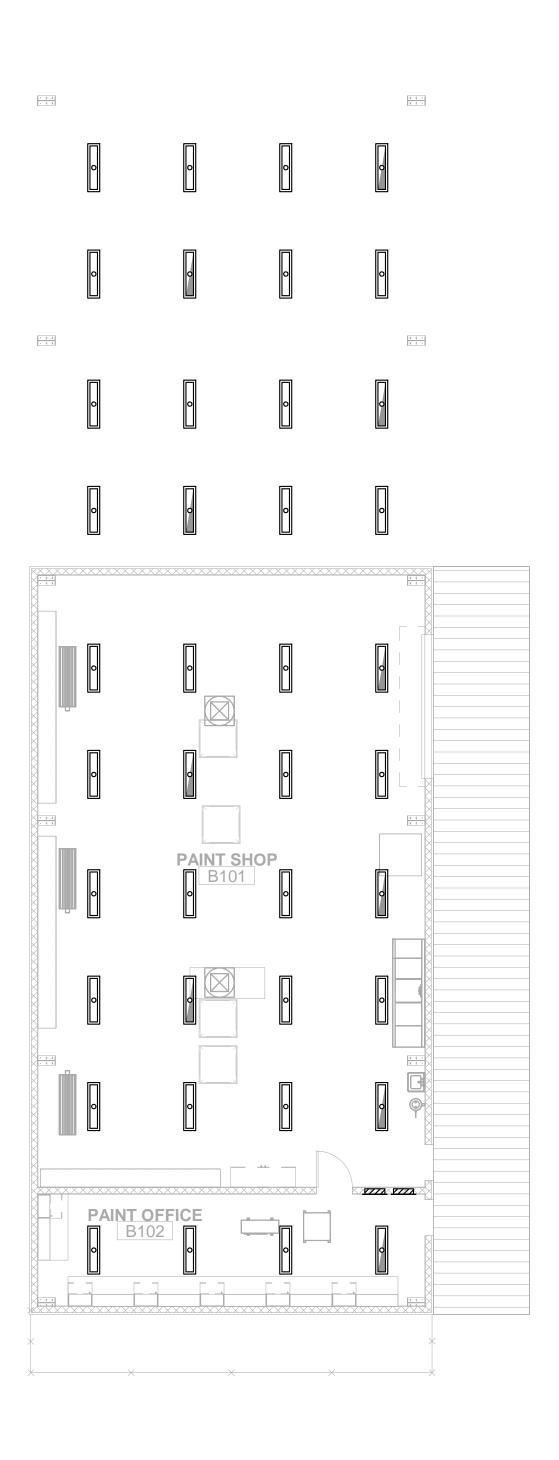
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LIGHTING PLAN - FIRST FLOOR BUILDING B

### KEYNOTES

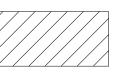
1 -2 -

# LIGHTING WIRING LEGEND

| <br>LIGHTING BRANCH CIRCUIT IN EMT CONDUIT CONSISTING OF THE<br>FOLLOWING BRANCH CIRCUIT CONDUCTORS:<br>1. HOT - 1#12 CU THHN (BROWN, ORANGE OR YELLOW)<br>2. NEUTRAL - 1#12 CU THHN (WHITE WITH COLORED STRIPE)<br>3. EQUIPMENT GROUNDING - 1#12 CU THHN (GREEN)  |
|--|
| <br>CLASS 2 CATEGORY 5E PLENUM RATED CABLE GREEN IN COLOR<br>WITH RJ45 CONNECTORS ON EACH END:   |
| <br><ul> <li>TYPE MC-PCS MC LUMINARY CABLE CONSISTING OF THE<br/>FOLLOWING CIRCUIT CONDUCTORS:</li> <li>1. CONTROLLED HOT - 1#12 CU THHN (BROWN)</li> <li>2. UNSWITCHED HOT - 1#12 CU THHN (ORANGE)</li> <li>3. NEUTRAL - 1#12 CU THHN (GREY)</li> <li>4. EQUIPMENT GROUNDING - 1#12 CU THHN (GREEN)</li> <li>5. 0-10VDC CONTROL: PVC JACKET CONTAINING 2#16 CU TFN<br/>(PURPLE &amp; GRAY)</li> </ul> |
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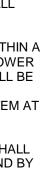
## LIGHTING SYMBOL LEGEND

PRIMARY SIDELIT ZONE:

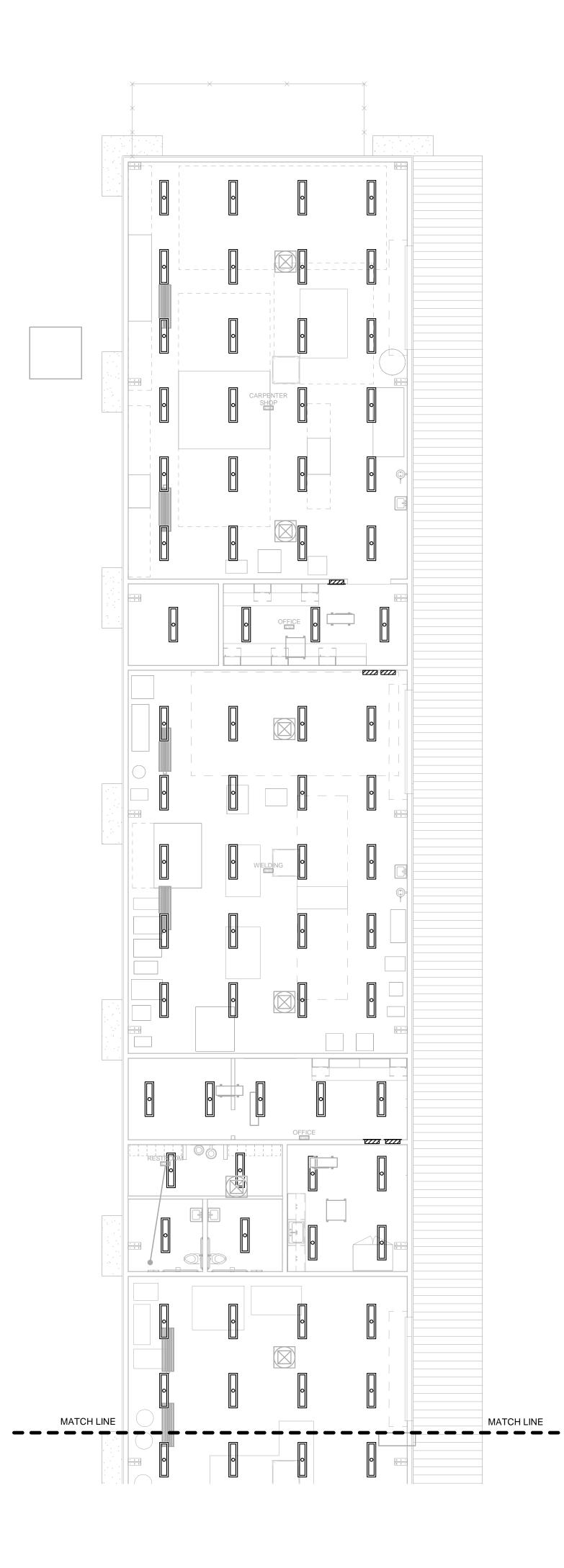


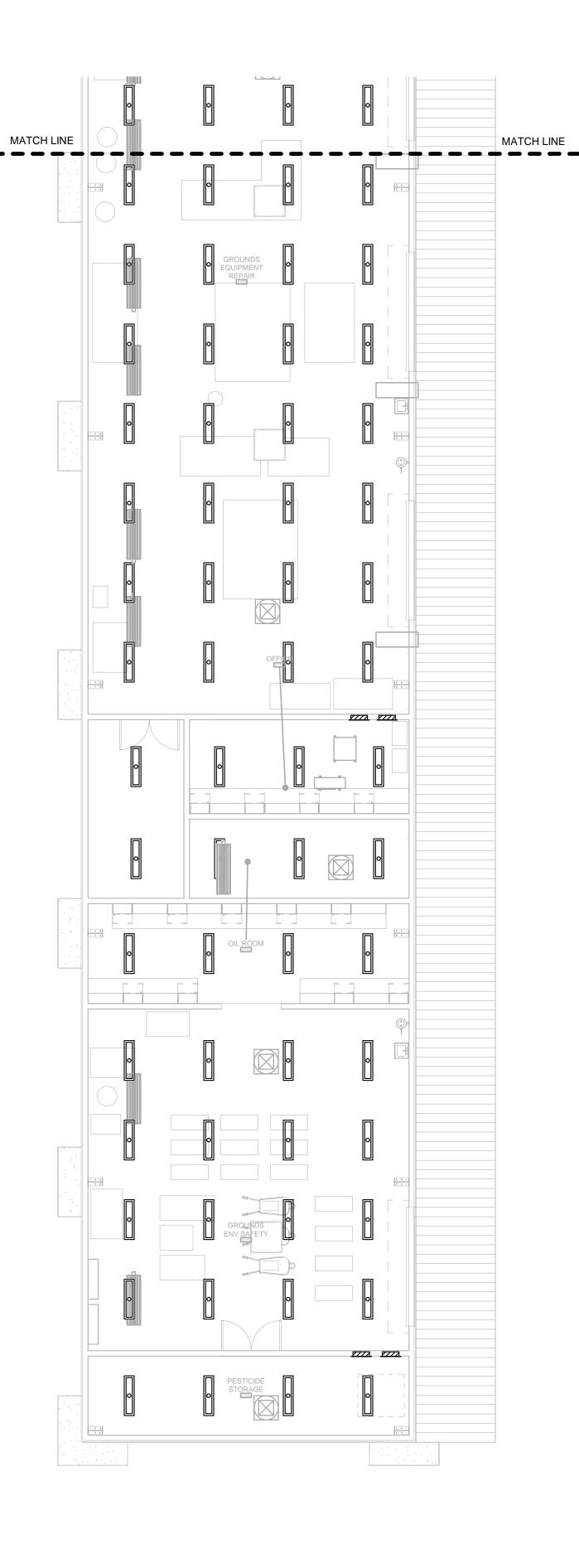
- M NETWORK CEILING MOUNTED OCCUPANCY SENSOR
- C1 SINGLE-ZONE NETWORK DIMMING MANUAL CONTROL STATION AT +48" TO TOP OF OUTLET BOX
- C1 SINGLE-ZONE NETWORK DIMMING MANUAL CONTROL STATION AT +48" TO TOP OF OUTLET BOX WITH STAINLESS STEEL LOCKING COVER PLATE
- FOUR-SCENE NETWORK DIMMING MANUAL CONTROL STATION AT +48" TO TOP OF OUTLET BOX
- S NETWORK DAYLIGHTING SENSOR WITHIN DAYLIT ZONE
- (P) NETWORK DIMMING CONTROL RELAY
- (RP) NETWORK PLUG LOAD CONTROLLER RELAY
- (nG) NETWORK GATEWAY
- (nB) NETWORK BRIDGE
- AD NETWORK AUTOMATED DEMAND RESPONSIVE CONTROL INTERFACE
- WALL SWITCH WITH INTEGRAL OCCUPANCY SENSOR AT +48" TO TOP OF OUTLET BOX

- A. CIRCUITS SUPPLYING EMERGENCY LIGHTING FIXTURES SHALL BE SUPPLIED BY A CONTROLLED HOT CONDUCTOR AND A CONSTANT HOT CONDUCTOR OF THE SAME BRANCH CIRCUIT.
- B. EXIT SIGNAGE AND WALL MOUNTED EMERGENCY LIGHTING UNITS SHALL BE SUPPLIED BY AN UNSWITCHED HOT CONDUCTOR.
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- D. NETWORK DAYLIGHT SENSORS FOR AUTOMATIC DIMMING WITHIN A DAYLIT ZONE SHALL BE CALIBRATED SUCH THAT LIGHTING POWER FOR THE LIGHTING FIXTURES WITHIN THAT DAYLIT ZONE SHALL BE REDUCED BY 65% WHEN DAYLIT ILLUMINANCE IS 150% OF ILLUMINANCE RECEIVED FROM THE GENERAL LIGHTING SYSTEM AT FULL POWER.
- LIGHTING CONTROLS SHALL BE DEMAND RESPONSIVE AND SHALL AUTOMATICALLY REDUCE BUILDING LIGHTING POWER DEMAND BY 15% IN RESPONSE TO A DEMAND RESPONSE SIGNAL PER 2016 CA ENERGY CODE SECTION 130.1 (e). E.











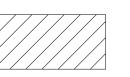
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## LIGHTING WIRING LEGEND

|  | NG BRANCH<br>WING BRAN<br>HOT - 1#12<br>NEUTRAL -<br>EQUIPMEN                                    | ICH CIRCU<br>CU THHN<br>1#12 CU  | JIT COND<br>I (BROWN<br>THHN (WI                        | UCTORS:<br>, ORANGE<br>HITE WITH          | OR YEI                   |
|--|--|--|---|---|--------------------------|
|  | 2 CATEGOR<br>345 CONNE   |  |   |   | GREEN                    |
|  | AC-PCS MC<br>WING CIRCI<br>CONTROLI<br>UNSWITCH<br>NEUTRAL<br>EQUIPMEN<br>0-10VDC C<br>(PURPLE 8 | UIT COND<br>_ED HOT -<br>IED HOT -<br>· 1#12 CU<br>IT GROUN<br>ONTROL: | UCTORS:<br>1#12 CU<br>1#12 CU<br>THHN (GF<br>IDING - 1# | THHN (BR<br>THHN (OR<br>REY)<br>12 CU THI | OWN)<br>ANGE)<br>HN (GRE |
|  | IC-PCS MC<br>WING CIRCI<br>CONTROLI<br>NEUTRAL<br>EQUIPMEN<br>0-10VDC C<br>(PURPLE 8             | UIT COND<br>_ED HOT -<br>· 1#12 CU<br>IT GROUN<br>ONTROL:              | UCTORS:<br>1#12 CU<br>THHN (GF<br>IDING - 1#            | THHN (BR<br>REY)<br>12 CU THI             | OWN)<br>HN (GRE          |
|  |  |  |   |   |                          |

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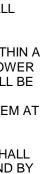
PRIMARY SIDELIT ZONE:



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- SINGLE-ZONE NETWORK DIMMING MANUAL CONTROL STATION AT +48" TO TOP OF OUTLET BOX WITH STAINLESS STEEL LOCKING COVER PLATE
- C4 FOUR-SCENE NETWORK DIMMING MANUAL CONTROL STATION AT +48" TO TOP OF OUTLET BOX
- (DS) NETWORK DAYLIGHTING SENSOR WITHIN DAYLIT ZONE
- P NETWORK DIMMING CONTROL RELAY
- (RP) NETWORK PLUG LOAD CONTROLLER RELAY (nG) NETWORK GATEWAY
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- AD NETWORK AUTOMATED DEMAND RESPONSIVE CONTROL INTERFACE
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#### GENERAL NOTES

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REEN) G 2#16 CU TFN

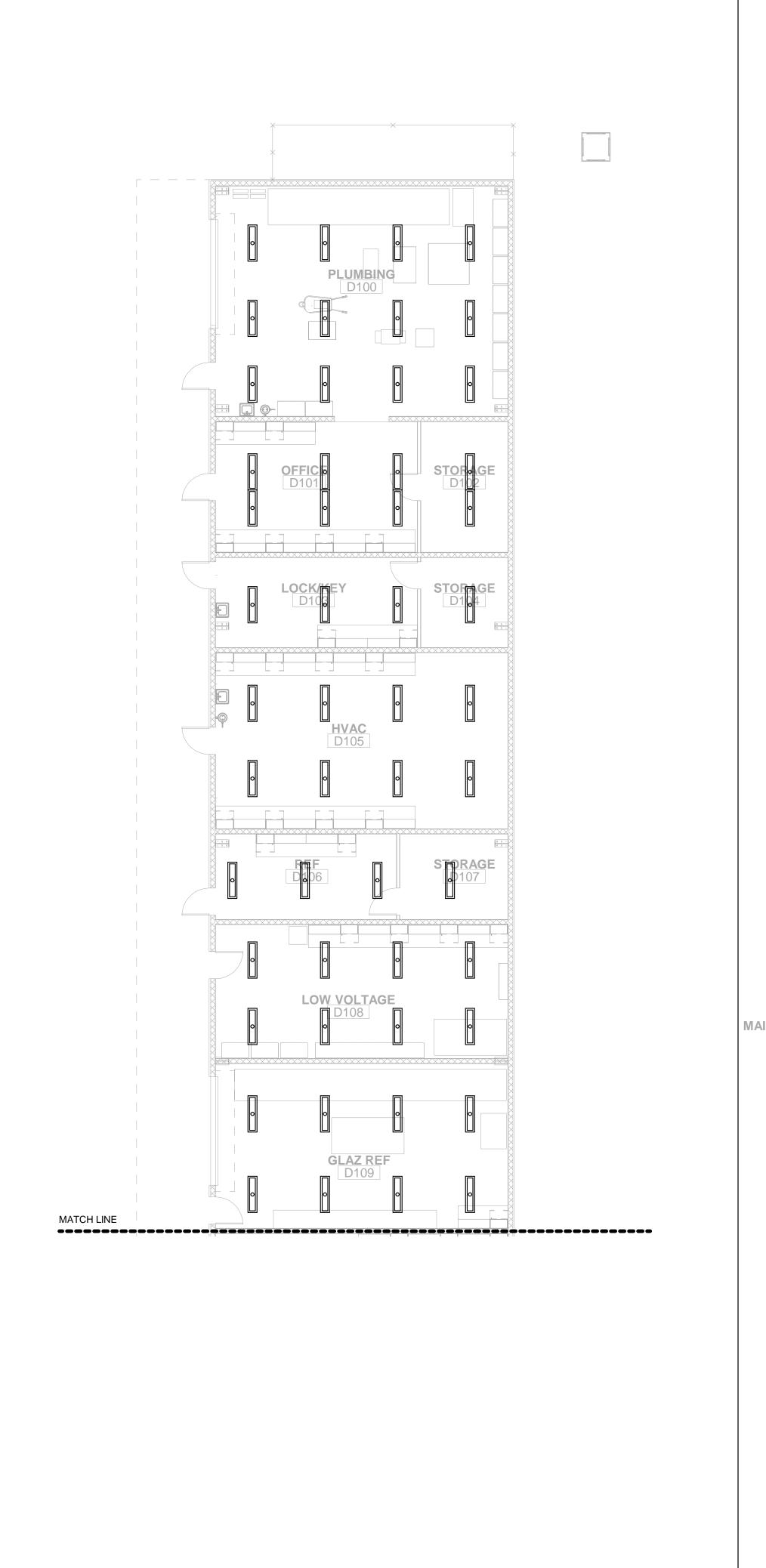
REEN) G 2#16 CU TFN ΉE

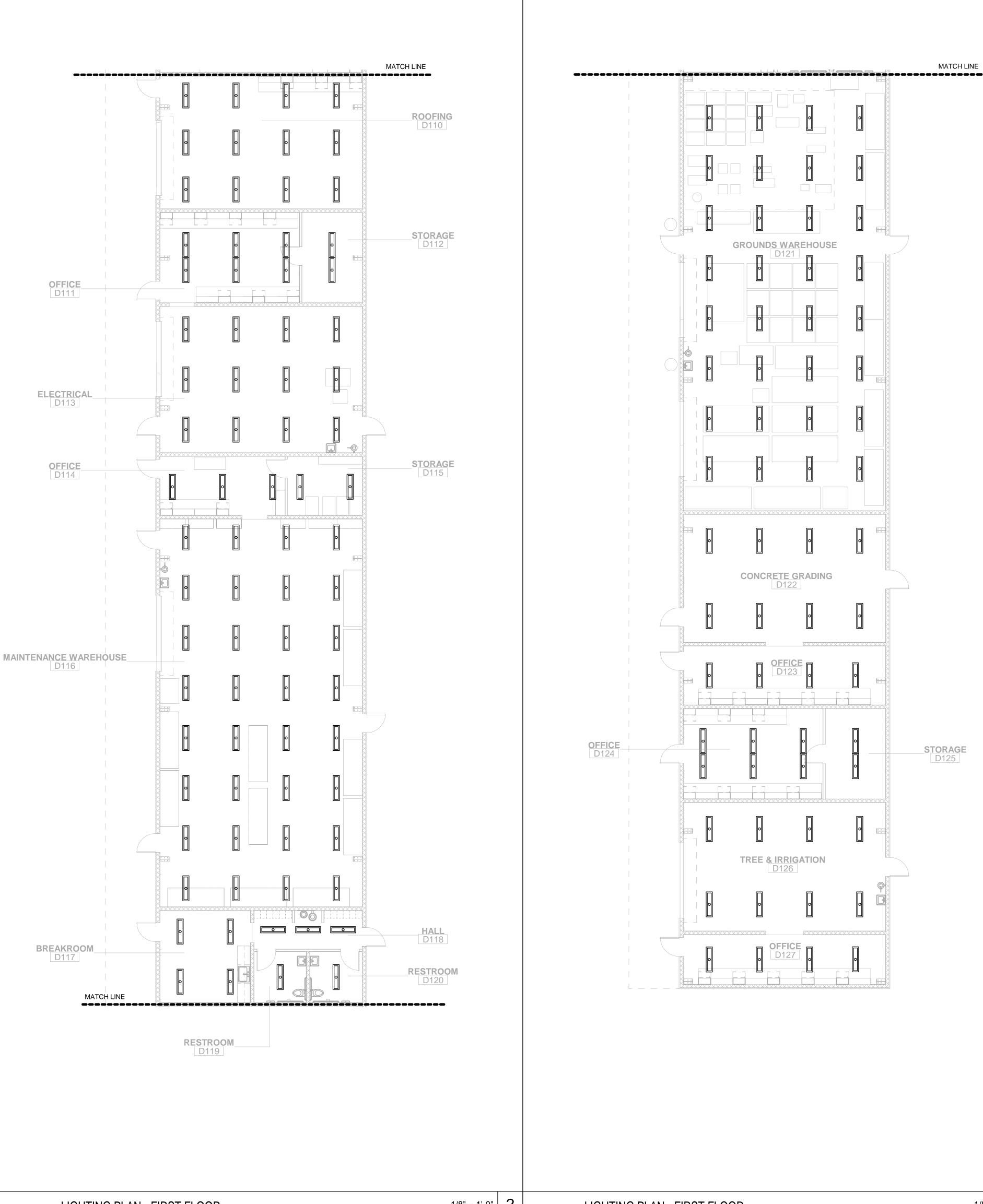
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EEN) N IN COLOR

TING OF THE ELLOW) DRED STRIPE)







LIGHTING PLAN - FIRST FLOOR

1/8" = 1'-0" 2

LIGHTING PLAN - FIRST FLOOR



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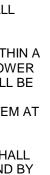
## LIGHTING WIRING LEGEND

|                       | LIGHTING BRANCH CIRCUIT IN EMT CONDUIT CONSISTING O<br>FOLLOWING BRANCH CIRCUIT CONDUCTORS:<br>1. HOT - 1#12 CU THHN (BROWN, ORANGE OR YELLOW)<br>2. NEUTRAL - 1#12 CU THHN (WHITE WITH COLORED ST<br>3. EQUIPMENT GROUNDING - 1#12 CU THHN (GREEN)   |  |  |  |
|-----------------------|---|--|--|--|
|                       | CLASS 2 CATEGORY 5E PLENUM RATED CABLE GREEN IN CO<br>WITH RJ45 CONNECTORS ON EACH END:   |  |  |  |
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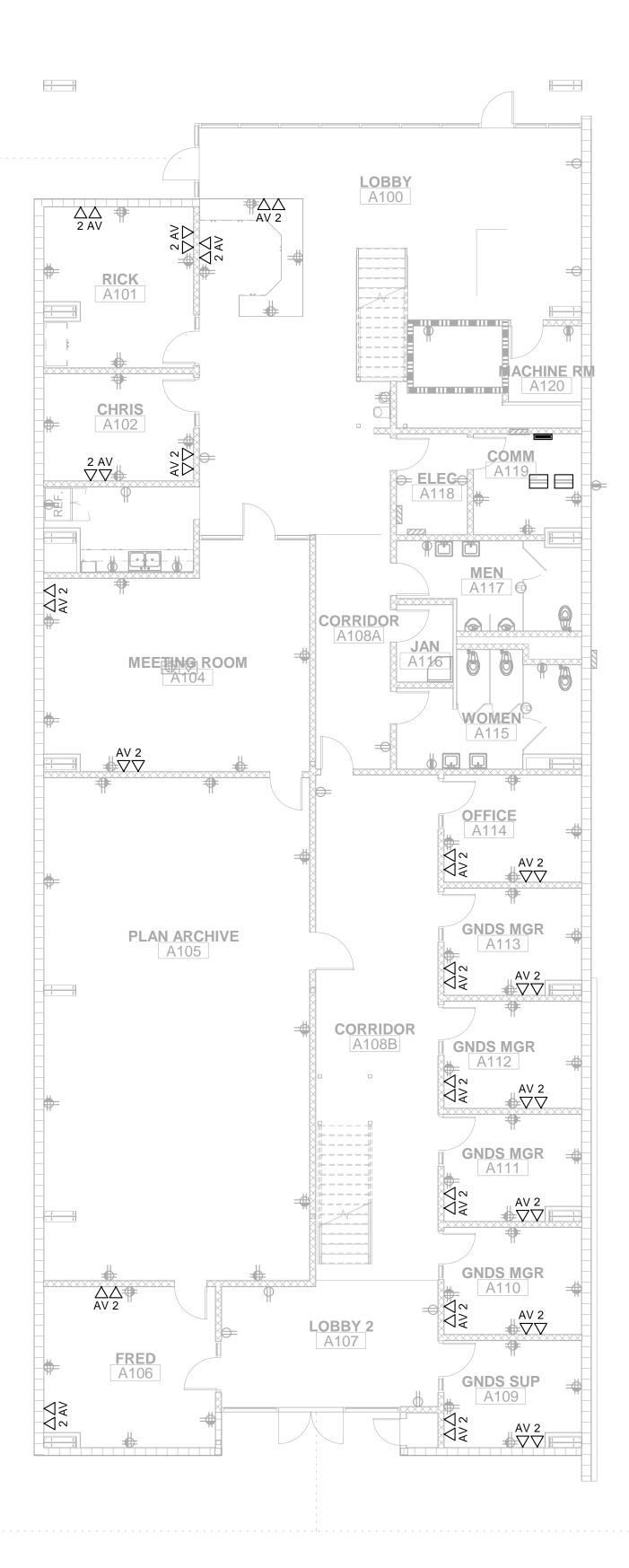
EEN) 3 2#16 CU TFN

2#16 CU TFN ΉE

ELLOW) RED STRIPE) EN) N IN COLOR

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#### TELECOMMUNICATION PATHWAY NOTES

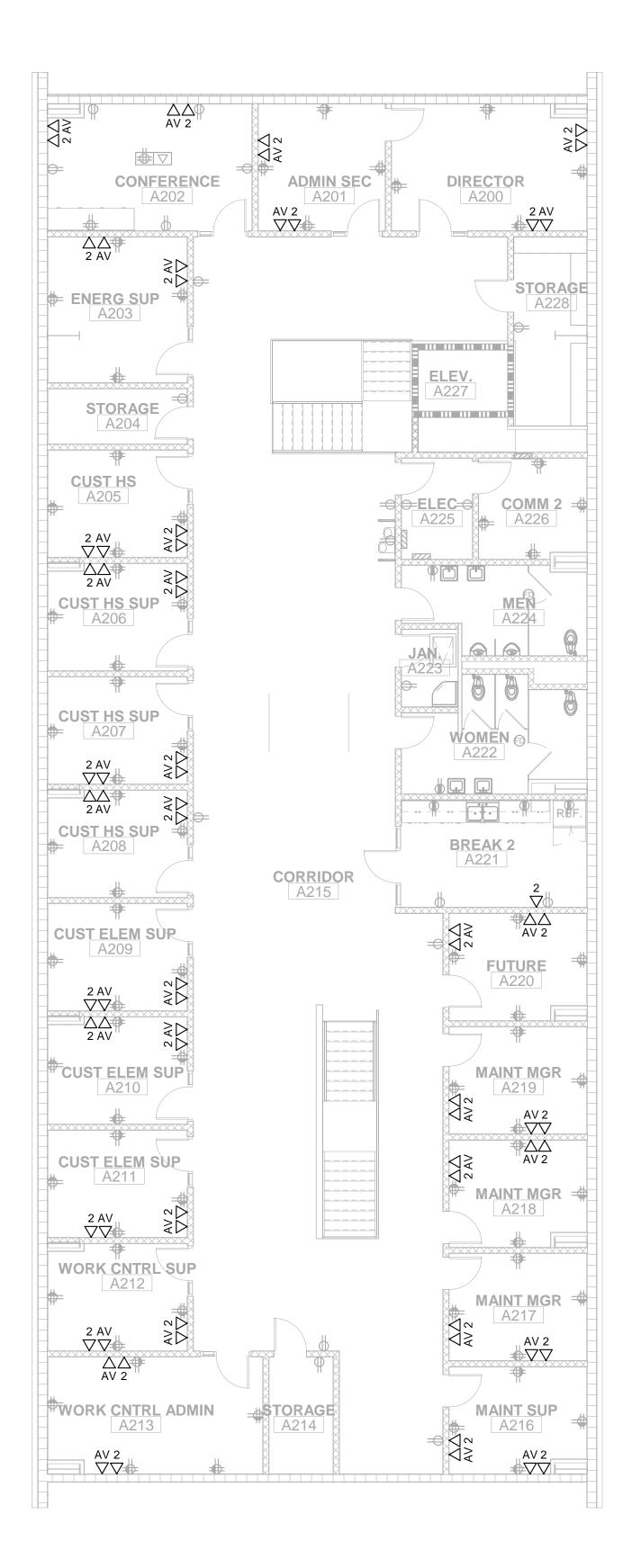
- A. CONDUIT AND CABLES FOR TELECOMMUNICATION OUTLETS SHALL BE CONCEALED WITHIN WALLS AND ABOVE CEILINGS.
- B. TELECOMMUNICATION OUTLET BOXES SHALL BE 5" SQUARE BY 2-7/8" DEEP WITH A SINGLE-GANG BOX EXTENSION THAT IS MOUNTED FLUSH WITH THE FINISHED WALL.
- PROVIDE ONE 1"C STUBBED FROM EACH TELECOMMUNICATION C. OUTLET BOX INTO THE ACCESSIBLE ATTIC SPACE TO FACILITATE TELECOMMUNICATION CABLE INSTALLATION.
- D. PROVIDE THREADED SET SCREW CONNECTORS WITH POLYPROPYLENE BUSHINGS AT EACH END OF CONDUIT SYSTEMS USED FOR TELECOMMUNICATION CABLE INSTALLATION. BUSHINGS SHALL BE INSTALLED AND INSPECTED PRIOR TO CABLE INSTALLATION.
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  - AT KEYPAD LOCATIONS INSTALL A SINGLE-GANG OUTLET BOX C. WITH A SINGLE-GANG TRIM-RING IN WALL AT 48" A.F.F. TO TOP OF BOX, INSTALL ONE 3/4"C INTO ACCESSIBLE ATTIC SPACE, INSTALL A PULL WIRE BETWEEN OUTLET BOX AND ACCESSIBLE ATTIC.
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### TELECOMMUNICATION CABLING NOTES

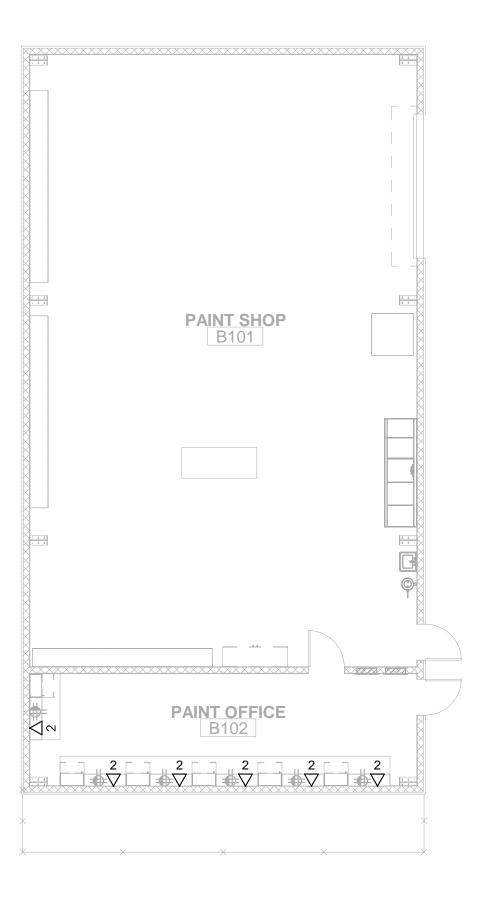
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### KEYNOTES

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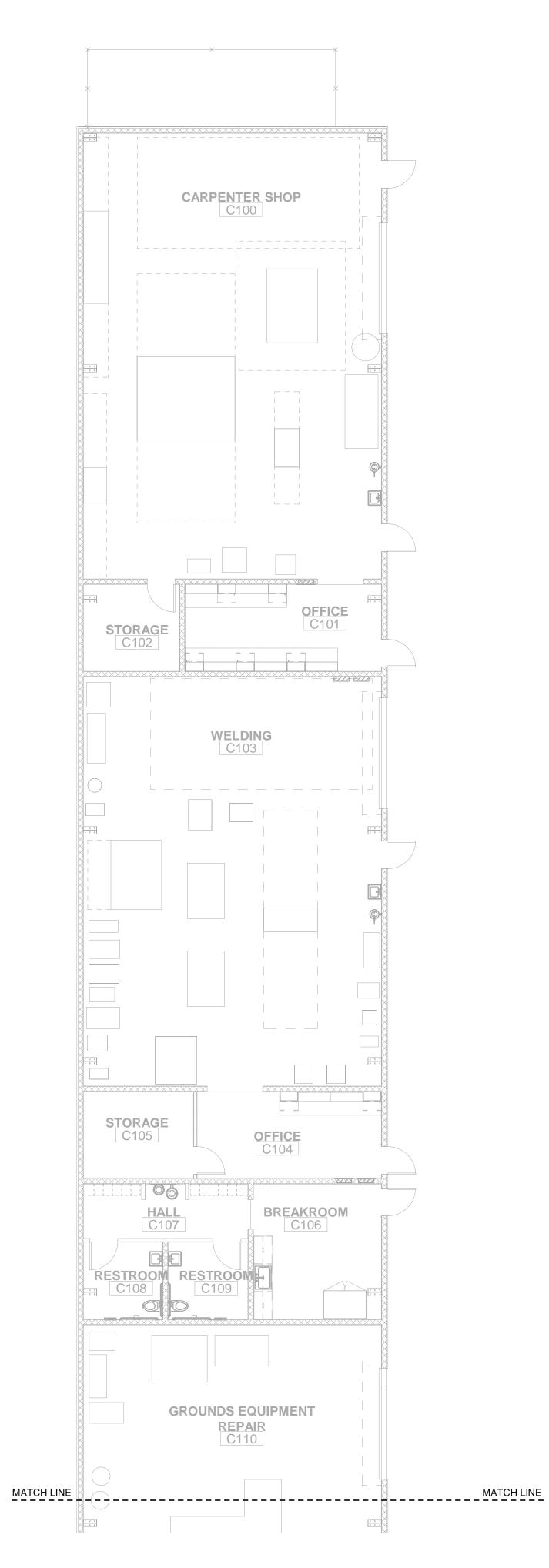
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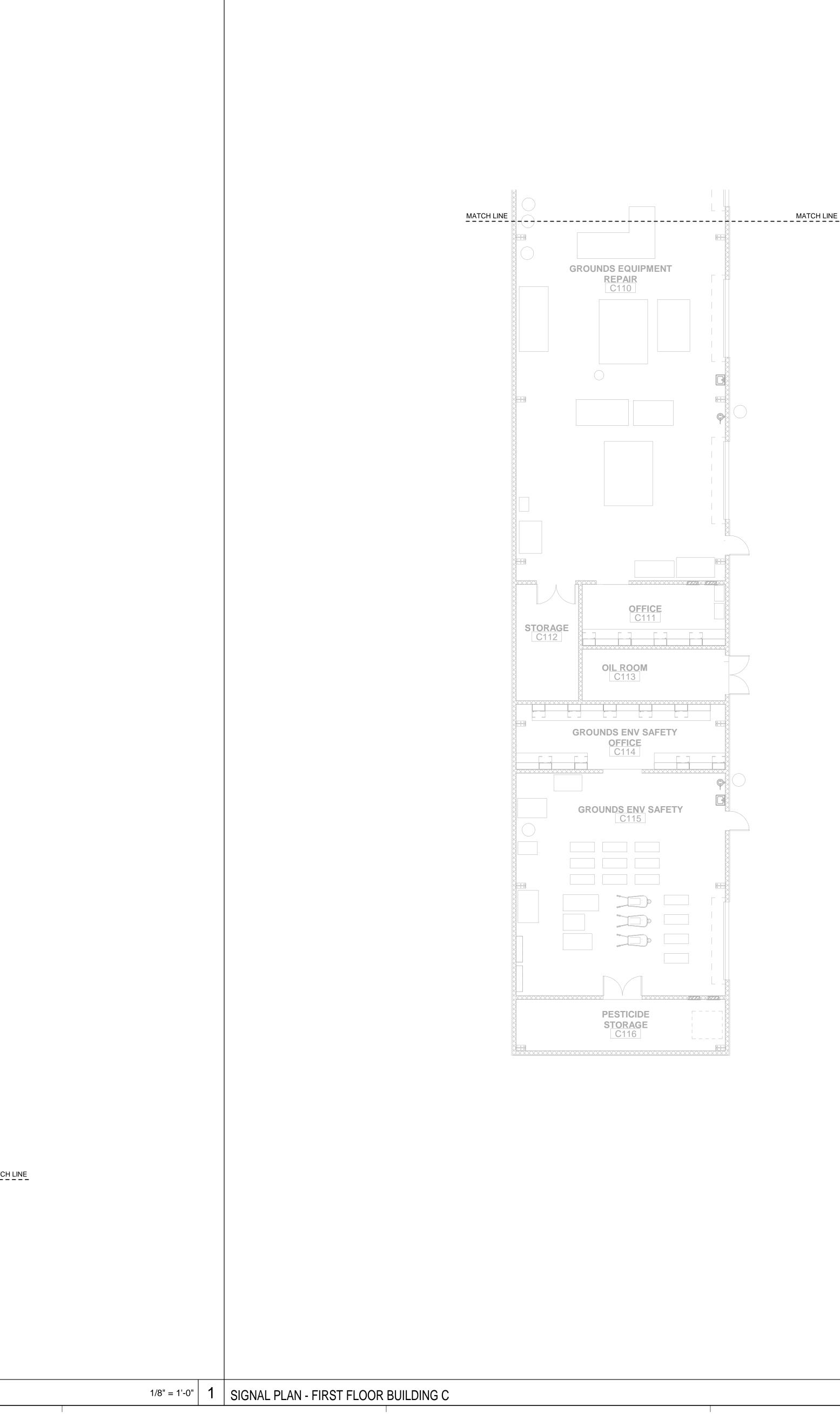
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## SECURITY AND ACCESS ROUGH-IN NOTES

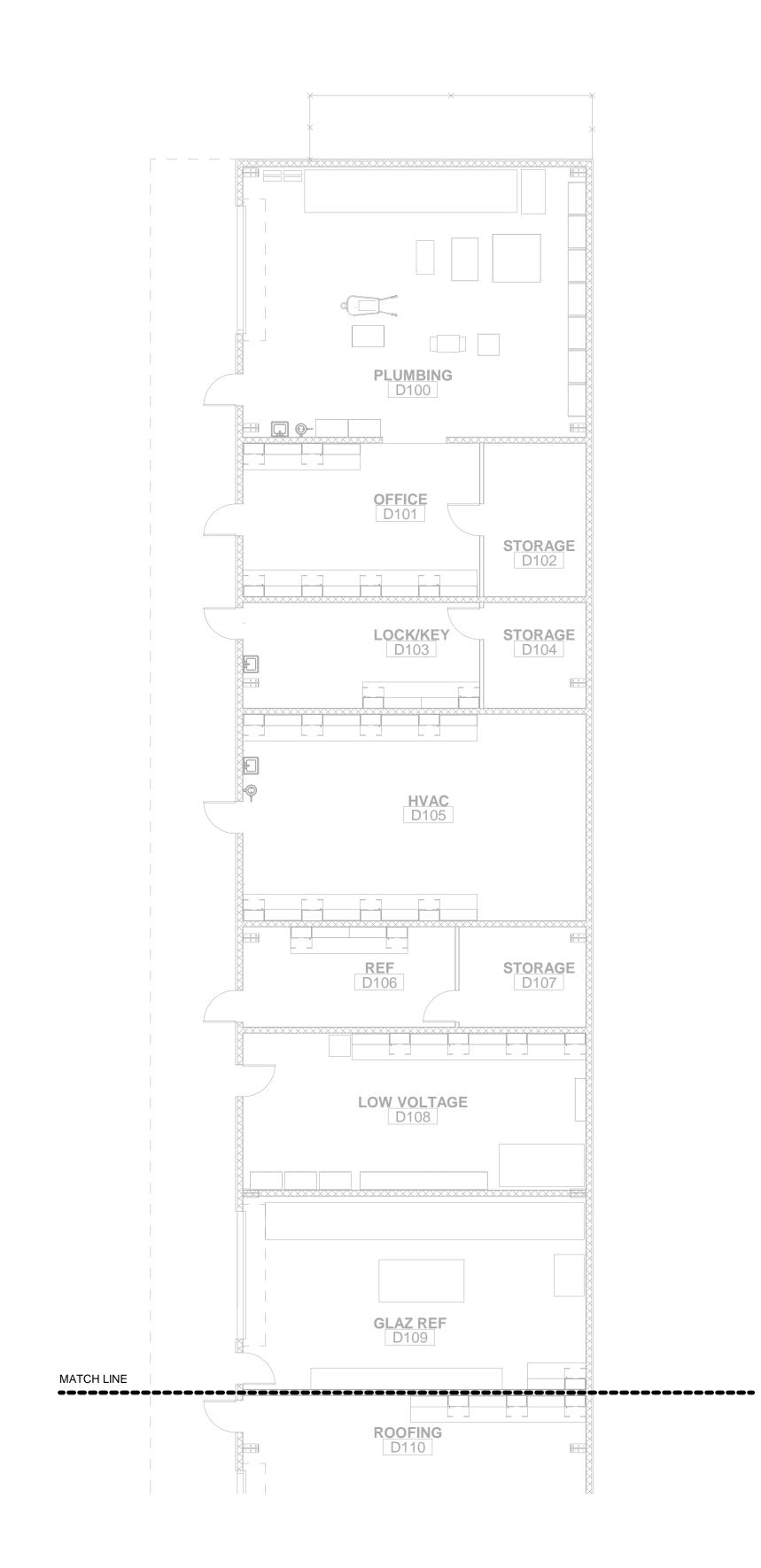
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## TELECOMMUNICATION PATHWAY NOTES

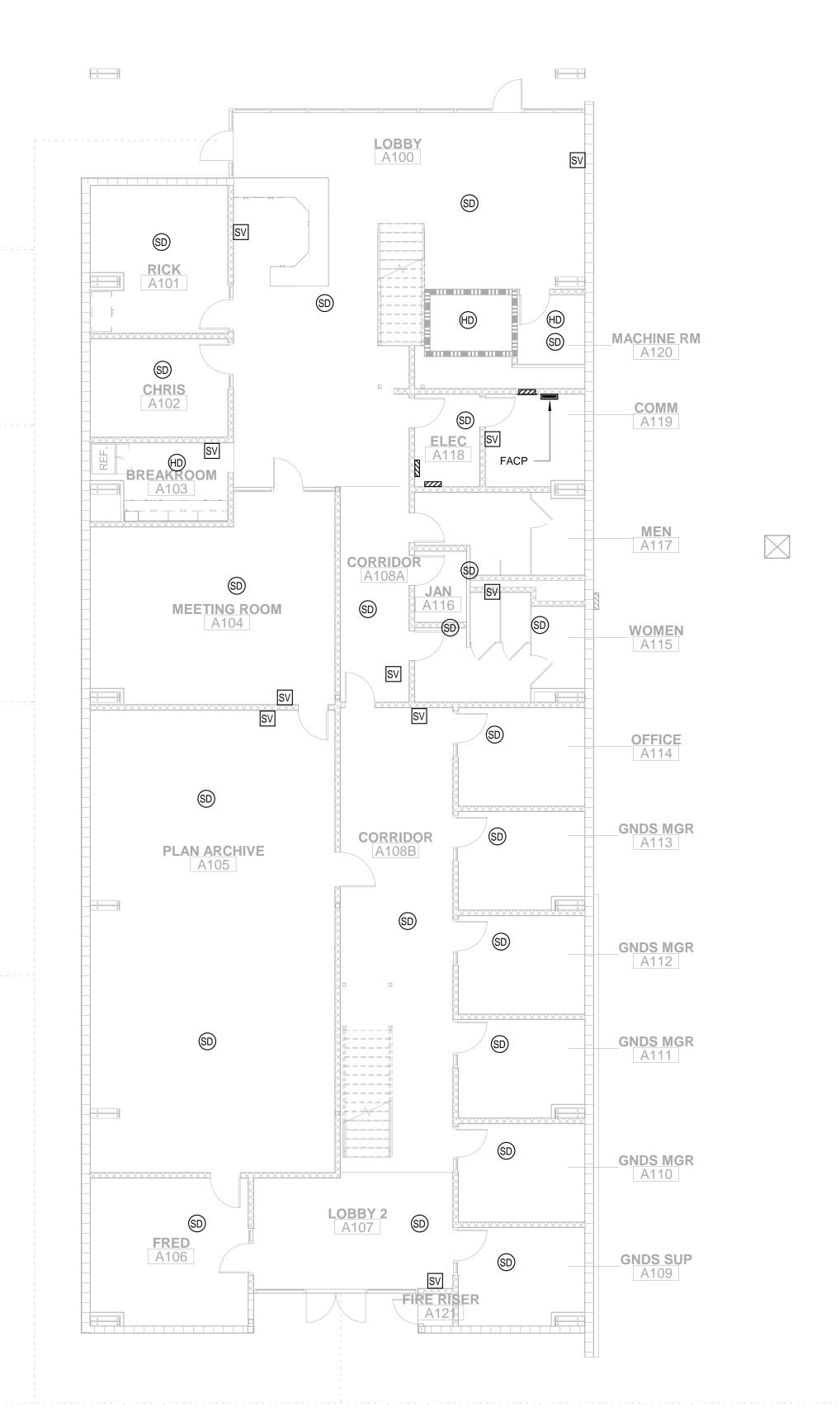
- CONDUIT AND CABLES FOR TELECOMMUNICATION OUTLETS SHALL BE Α. CONCEALED WITHIN WALLS AND ABOVE CEILINGS.
- B. TELECOMMUNICATION OUTLET BOXES SHALL BE 5" SQUARE BY 2-7/8" DEEP WITH A SINGLE-GANG BOX EXTENSION THAT IS MOUNTED FLUSH WITH THE FINISHED WALL.
- PROVIDE ONE 1"C STUBBED FROM EACH TELECOMMUNICATION C. OUTLET BOX INTO THE ACCESSIBLE ATTIC SPACE TO FACILITATE TELECOMMUNICATION CABLE INSTALLATION.
- D. PROVIDE THREADED SET SCREW CONNECTORS WITH POLYPROPYLENE BUSHINGS AT EACH END OF CONDUIT SYSTEMS USED FOR TELECOMMUNICATION CABLE INSTALLATION. BUSHINGS SHALL BE INSTALLED AND INSPECTED PRIOR TO CABLE INSTALLATION.
- CABLE TRAYS SHALL COMPLY WITH NEMA VE 1 STANDARDS AND SHALL BE INSTALLED IN ACCORDANCE WITH NEMA VE 2 INSTALLATION Ε. GUIDELINES.

## TELECOMMUNICATION CABLING NOTES

- EACH TELECOMMUNICATION CABLE SHALL BE HOMERUN FROM THE Α. TELECOMMUNICATION OUTLET TO A PATCH PANEL LOCATED IN THE TELECOMMUNICATION ROOM.
- TELECOMMUNICATION CABLES SHALL BE NEATLY BUNDLED WITH В. VELCRO STRAPS AT 36"O.C.
- TELECOMMUNICATION CABLES SHALL BE INDEPENDENTLY SUPPORTED С. FROM J-HOOKS WITHIN THE ACCESSIBLE ATTIC SPACE WHERE THEY ARE NOT WITHIN CONDUIT OR SUPPORTED ON CABLE TRAY. TELECOMMUNICATION CABLES SHALL BE TERMINATED WITH MODULAR D.
- JACKS ON PATCH PANELS IN THE TELECOMMUNICATION ENCLOSURE AND ON MODULAR JACKS AT THE TELECOMMUNICATION OUTLETS.
- TELECOMMUNICATION CABLE SERVING WIRELESS ACCESS POINTS Ε. SHALL BE TERMINATED WITH PLUG TYPE CONNECTORS AT THE LOCATION OF THE WIRELESS ACCESS POINT.

- A. SECURITY AND ACCESS SYSTEM ROUGH-IN REQUIREMENTS: a. AT DOOR CONTACT LOCATIONS - DRILL 1/2" HOLE IN STRIKE SIDE OF DOOR FRAME AND THROUGH HEADER, INSTALL A PULL WIRE BETWEEN OPENING IN DOOR FRAME AND ACCESSIBLE
  - ATTIC. AT MOTION DETECTOR LOCATIONS - INSTALL A SINGLE-GANG OUTLET BOX WITH A SINGLE-GANG TRIM-RING IN WALL AT 84" A.F.F., INSTALL ONE 1/2"C INTO ACCESSIBLE ATTIC SPACE. INSTALL A PULL WIRE BETWEEN OUTLET BOX AND ACCESSIBLE ATTIC.
  - AT KEYPAD LOCATIONS INSTALL A SINGLE-GANG OUTLET BOX WITH A SINGLE-GANG TRIM-RING IN WALL AT 48" A.F.F. TO TOP OF BOX, INSTALL ONE 3/4"C INTO ACCESSIBLE ATTIC SPACE, INSTALL A PULL WIRE BETWEEN OUTLET BOX AND ACCESSIBLE ATTIC.
  - AT CARD READER LOCATIONS INSTALL A SINGLE-GANG d. OUTLET BOX WITH A SINGLE-GANG TRIM-RING IN WALL AT 48" A.F.F. TO TOP OF BOX, INSTALL ONE 3/4"C INTO ACCESSIBLE ATTIC SPACE, INSTALL A PULL WIRE BETWEEN OUTLET BOX AND ACCESSIBLE ATTIC.





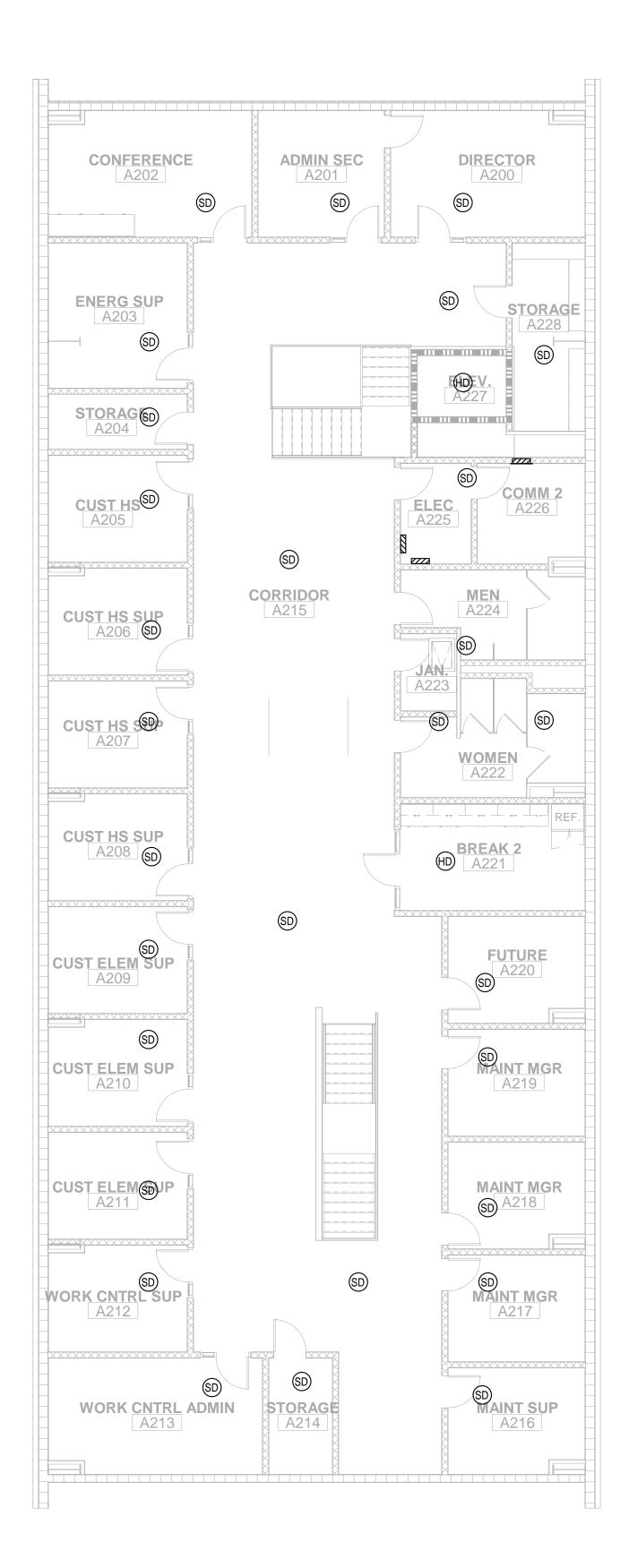
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# FIRE ALARM SYSTEM INSTALLATION NOTES

- A. THE LOCATION OF AUTOMATIC DETECTORS, MANUAL PULL STATIONS AND OTHER FIRE ALARM EQUIPMENT AND DEVICES, AS SHOWN ON PLAN, ARE FOR REFERENCE ONLY, AND DO NOT CONSTITUTE SHOP DRAWINGS WHICH ARE REQUIRED FOR REVIEW AND APPROVAL.
- ALL DRAWINGS ARE DIAGRAMMATIC ONLY, AND SHALL NOT BE USED IN В. DETERMINING ACTUAL CONDUIT ROUTING. THE CONTRACTOR SHALL VERIFY ALL CONDUIT ROUTING CONDITIONS AT THE PROJECT SITE AS CONSTRUCTION PROGRESSES.
- ALL FIRE ALARM DATA, COMMUNICATIONS AND INITIATING CIRCUITS С. SHALL BE INSTALLED UTILIZING SOLID COPPER CONDUCTORS WITH OUTER COVERING COLORS PER THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS. ALL SMOKE DAMPER AND REMOTE TROUBLE INDICATOR CIRCUITS SHALL BE YELLOW. ALL CIRCUITS SHALL BE INDIVIDUALLY LABELED, BOTH AT THE DEVICE END AND AT THE SIGNAL TERMINAL CABINET AND/OR FIRE ALARM MASTER PANEL TERMINATION POINT.
- ALL FIRE ALARM CIRCUITS SHALL BE CONTINUOUS FROM DEVICE TO D. DEVICE. SPLICES ARE NOT ALLOWED UNLESS IN COVERED JUNCTION BOXES ON APPROVED TERMINAL BLOCKS. 'T' TAPPING IS ALLOWED ONLY IN INITIATION LOOPS CONNECTING ADDRESSABLE DEVICES AND ONLY UNDER THESE CONDITIONS. UNDER NO CIRCUMSTANCES SHALL 'T' TAPPING BE PERMITTED BETWEEN CONVENTIONAL DEVICES.
- SMOKE DETECTORS SHALL BE INSTALLED AWAY FROM AIR SUPPLY GRILLES AT A MINIMUM DISTANCE OF 3' PER NFPA 72 29.8.3.4 OR GREATER AS RECOMMENDED BY THE MANUFACTURER. E.
- F. CONTRACTOR SHALL SYNCHRONIZE TWO OR MORE STROBES IN ONE ROOM AND TWO OR MORE SPEAKERS WITHIN HEARING OF EACH OTHER. G. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE 2019 CALIFORNIA ELECTRICAL CODE (CEC) ARTICLE 760 AND THE 2019 CALIFORNIA FIRE CODE (CFC) § 105.7 & § 907, AND CALIFORNIA BUILDING CODE (CBC)

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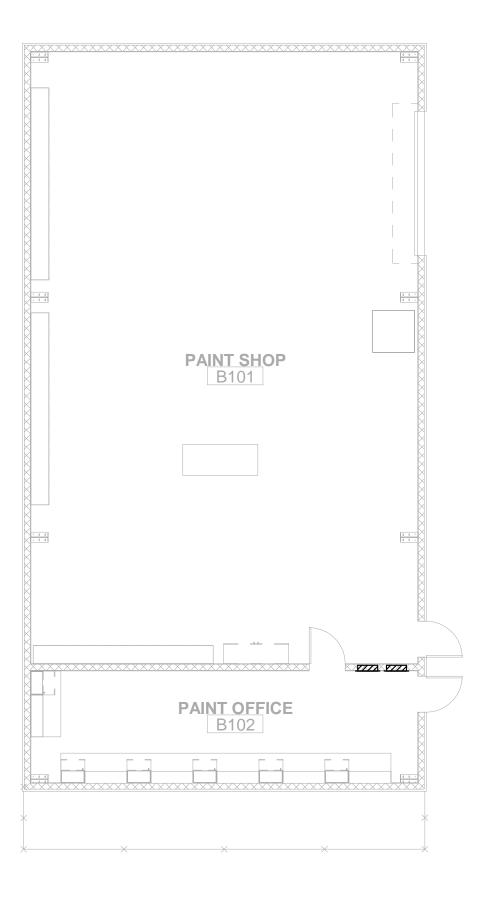
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### KEYNOTES

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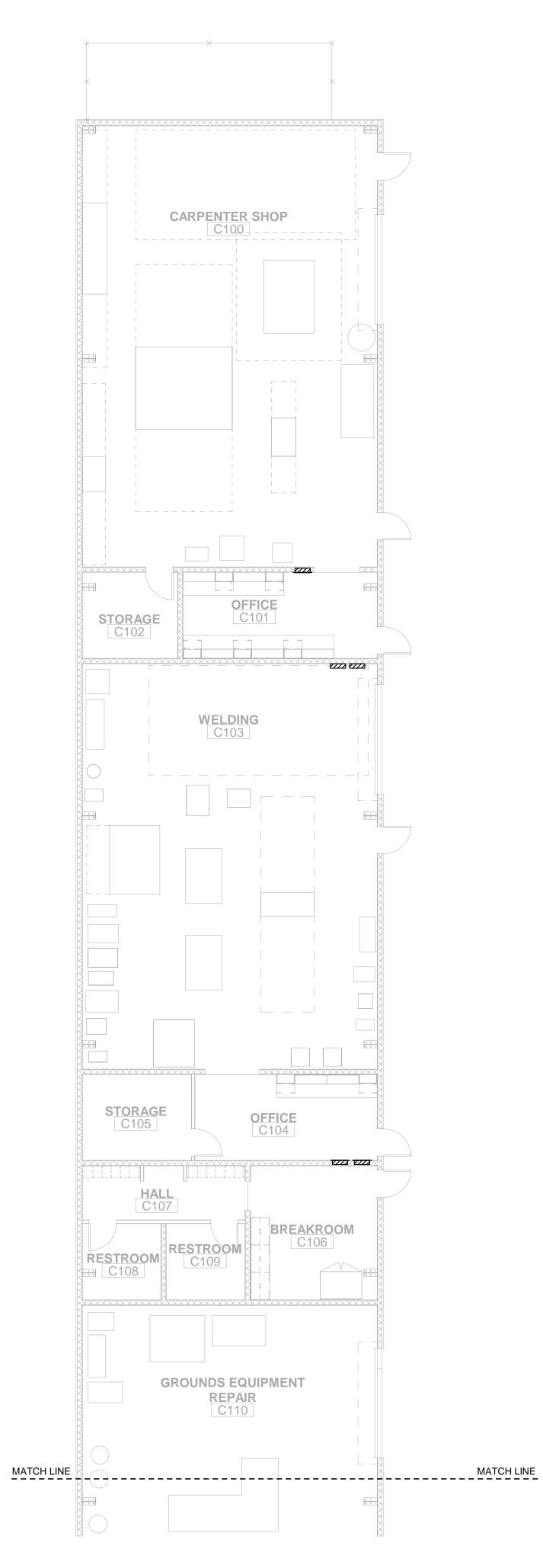
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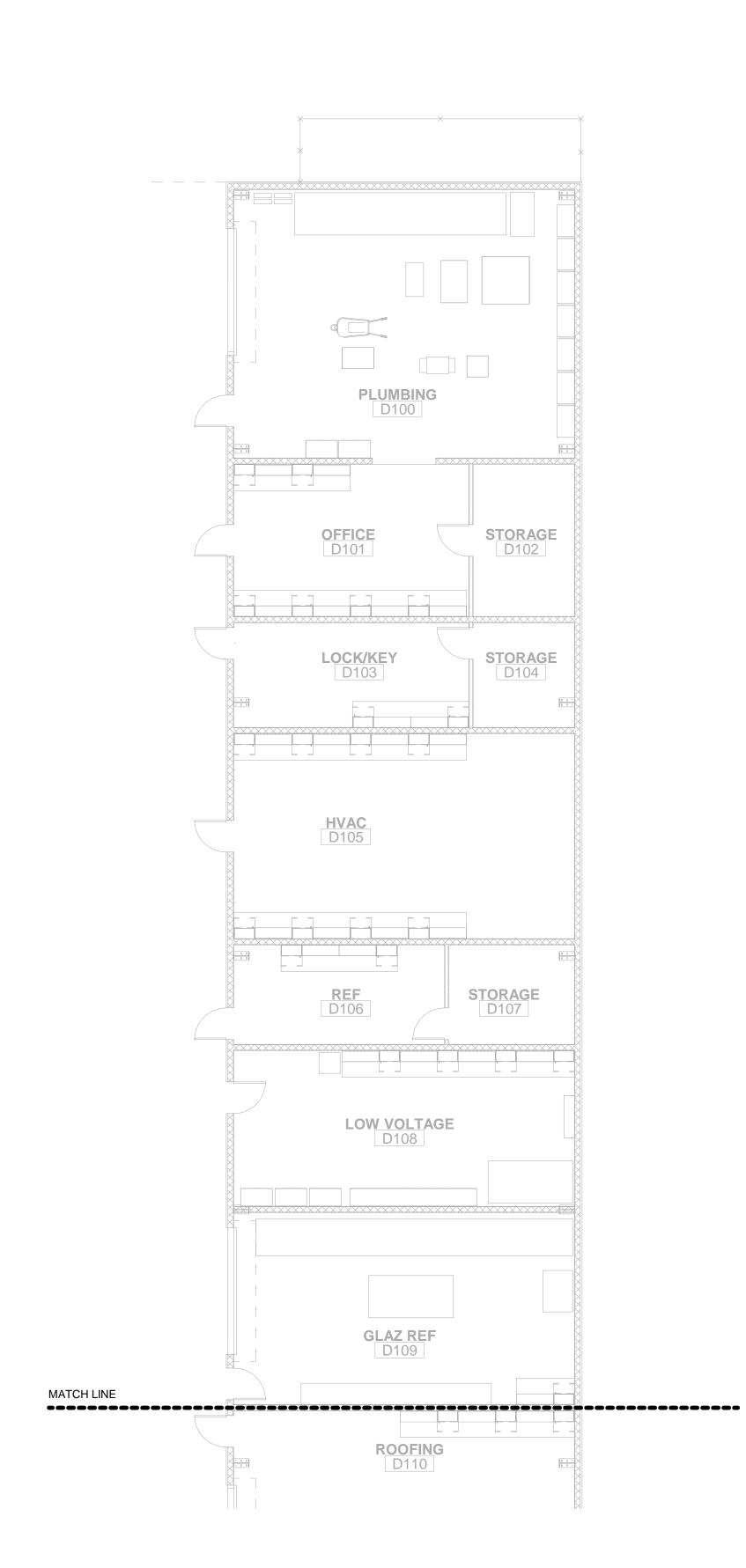
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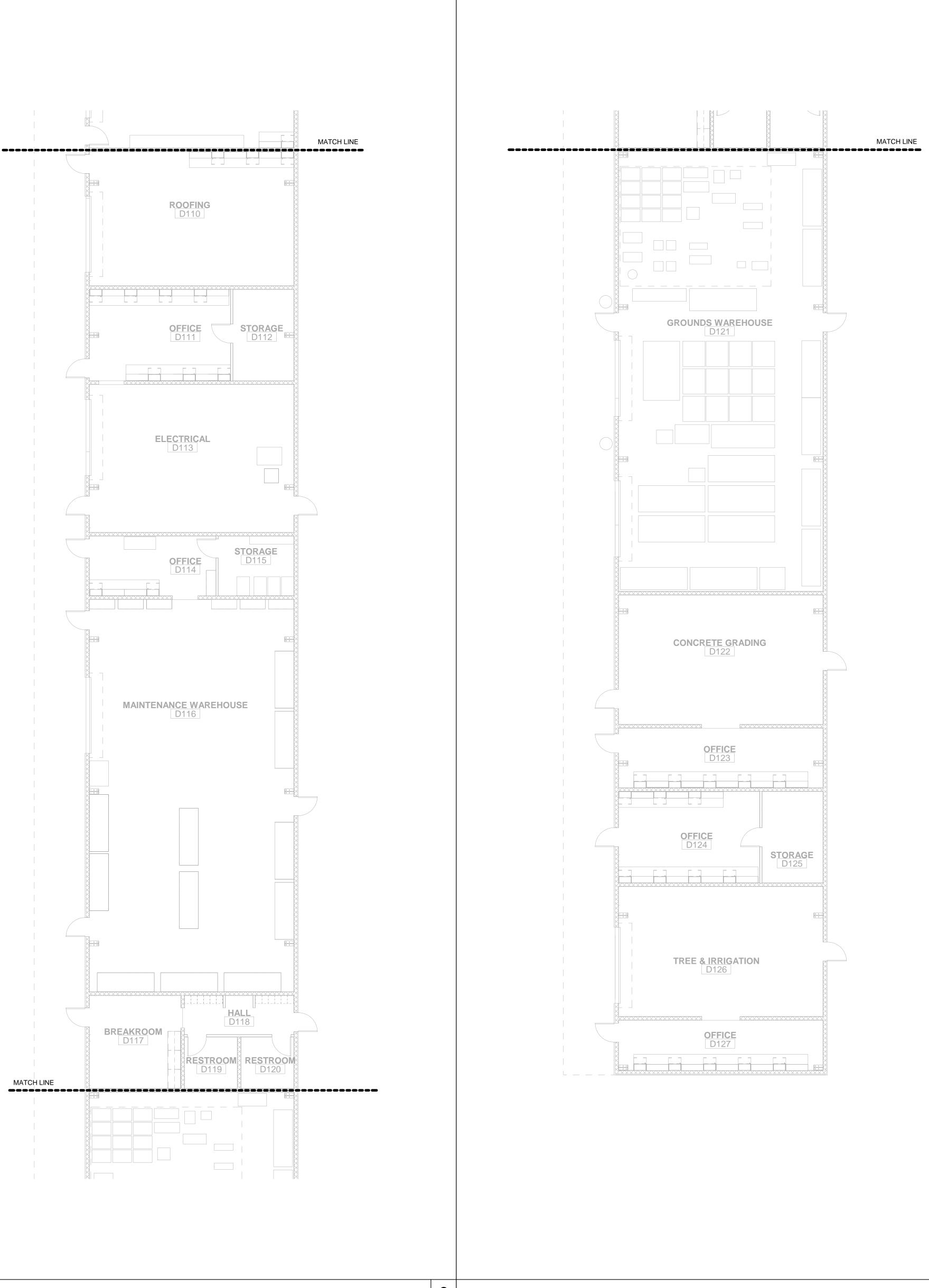
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